

Global United Technology Services Co., Ltd.

Report No.: GTS201907000198F01

Test Report

Applicant: Shenzhen Sunricher Technology Limited

Address of Applicant: 3rd Floor, B building, Jia'an Industrial Building, Liu Xian Third

road, No. 72 area, Xin'an Street, Baoan District, Shenzhen,

China

Manufacturer/Factory: Shenzhen Sunricher Technology Limited

Address of 3rd Floor, B building, Jia'an Industrial Building, Liu Xian Third

Manufacturer/Factory: road, No.72 area, Xin'an Street, Baoan District, Shenzhen,

China

Equipment Under Test (EUT)

Product Info: LED Controllers

Model No.: SR-ZG1029-5C, SR-ZG1029-5C-A, SR-ZG2868,

SR-ZG2801K2-5C, SR-SPI-OLED, SR-2812US3-WI,

SR-2833K1, SR-2833K2, SR-2855-RGBW,

SR-1009MS-MONO, SR-1009EA-5C, SR-2858Z4-5C, SR-2853-K8-5C, HS-remote-1, SR-1029CCT-2PIN, SR-1029CCT, SR-1029RGB, SR-1029DIM, SR-1029W,

SR-ZG1029-CCT-2PIN

Trade Mark:

SINDICHED

FCC ID: 2AHST-ZG1029

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: July 30, 2019

Date of Test: July 31, 2019-August 26, 2019

Date of report issued: August 26, 2019

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Lo Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
00	August 26, 2019	Original

Prepared By:	Tiger. Ohn	Date:	August 26, 2019
	Project Engineer		
Check By:	Reviewer	Date:	August 26, 2019



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.10:2013

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes		
Radiated Emission	30MHz-200MHz	3.8039dB	(1)		
Radiated Emission	200MHz-1GHz	3.9679dB	(1)		
Radiated Emission	1GHz-18GHz	4.29dB	(1)		
Radiated Emission	18GHz-40GHz	3.30dB	(1)		
AC Power Line Conducted Emission 0.15MHz ~ 30MHz 3.44dB					
Note (1): The measurement uncer	tainty is for coverage factor of	k=2 and a level of confidence of s	95%.		



5 General Information

5.1 General Description of EUT

Product Info:	LED Controllers
Model No.:	SR-ZG1029-5C, SR-ZG1029-5C-A, SR-ZG2868, SR-ZG2801K2-5C,
	SR-SPI-OLED, SR-2812US3-WI, SR-2833K1, SR-2833K2,
	SR-2855-RGBW, SR-1009MS-MONO, SR-1009EA-5C,
	SR-2858Z4-5C, SR-2853-K8-5C, HS-remote-1, SR-1029CCT-2PIN,
	SR-1029CCT, SR-1029RGB, SR-1029DIM, SR-1029W,
	SR-ZG1029-CCT-2PIN
Test Model No:	SR-ZG1029-5C
	are identical in the same PCB layout, interior structure and electrical e is model name for commercial purpose.
Serial No.:	N/A
Hardware Version:	1.0
Software Version:	1.0
Test sample(s) ID:	GTS201907000198-1
Sample(s) Status	Engineer sample
Operation Frequency:	2405MHz~2480MHz
Channel numbers:	16
Channel separation:	5MHz
Modulation type:	O-QPSK
Antenna Type:	PCB Antenna
Antenna gain:	0dBi (Declared by manufacturer)
Power supply:	DC 12-24V



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
11	2405MHz	15	2425MHz	19	2445MHz	23	2465MHz
12	2410MHz	16	2430MHz	20	2450MHz	24	2470MHz
13	2415MHz	17	2435MHz	21	2455MHz	25	2475MHz
14	2420MHz	18	2440MHz	22	2460MHz	26	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2405MHz
The middle channel	2440MHz
The Highest channel	2480MHz



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

5.3 Description of Support Units

Manufacturer	Manufacturer Description Model		Serial Number	
Lenovo Notebook PC		E40	N/A	
SAIL	DC POWER SUPPLY	46B24L	7J3116161 2491	

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

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

FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China

Tel: 0755-27798480

Fax: 0755-27798960

5.8 Additional instructions

Test Software	Nodetest_cmd
Software version	Ver 1.0
Power level setup	Default



6 Test Instruments list

Radi	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 03 2015	July. 02 2020	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 26 2019	June. 25 2020	
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 26 2019	June. 25 2020	
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 26 2019	June. 25 2020	
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 26 2019	June. 25 2020	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
8	Coaxial Cable	GTS	N/A	GTS213	June. 26 2019	June. 25 2020	
9	Coaxial Cable	GTS	N/A	GTS211	June. 26 2019	June. 25 2020	
10	Coaxial cable	GTS	N/A	GTS210	June. 26 2019	June. 25 2020	
11	Coaxial Cable	GTS	N/A	GTS212	June. 26 2019	June. 25 2020	
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 26 2019	June. 25 2020	
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 26 2019	June. 25 2020	
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 26 2019	June. 25 2020	
15	Band filter	Amindeon	82346	GTS219	June. 26 2019	June. 25 2020	
16	Power Meter	Anritsu	ML2495A	GTS540	June. 26 2019	June. 25 2020	
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 26 2019	June. 25 2020	
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 26 2019	June. 25 2020	
19	Splitter	Agilent	11636B	GTS237	June. 26 2019	June. 25 2020	
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 26 2019	June. 25 2020	
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 20 2018	Oct. 19 2019	
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 20 2018	Oct. 19 2019	
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 20 2018	Oct. 19 2019	
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 26 2019	June. 25 2020	



RF C	RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 26 2019	June. 25 2020	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 26 2019	June. 25 2020	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 26 2019	June. 25 2020	
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 26 2019	June. 25 2020	
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 26 2019	June. 25 2020	
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 26 2019	June. 25 2020	
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 26 2019	June. 25 2020	
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 26 2019	June. 25 2020	

Gene	General used equipment:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 26 2019	June. 25 2020		
2	Barometer	ChangChun	DYM3	GTS255	June. 26 2019	June. 25 2020		



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

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.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna:

The antenna is PCB antenna, the best case gain of the antenna is 0dBi, Reference to the appendix II for details.

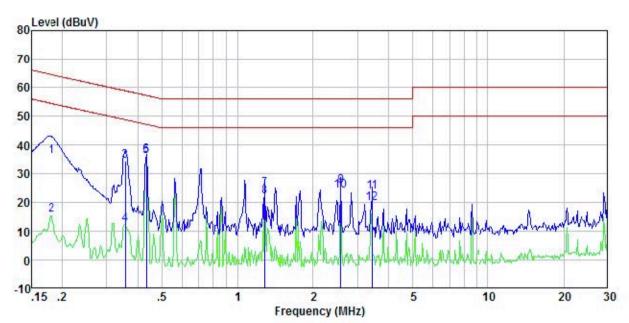


7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	150KHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto						
Limit:	Ereguency range (MHz) Limit (dBuV)						
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	56 to 46*					
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarithn	n of the frequency.					
Test setup:	Reference Plane						
	AUX Equipment E.U.T Remark: E.U.T Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0 8m						
Test procedure:	 The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 						
Test Instruments:	Refer to section 6.0 for details	<u> </u>					
Test mode:	Refer to section 5.2 for details						
Test environment:	Temp.: 25 °C Hum	nid.: 52%	Press.: 1012mbar				
Test voltage:	AC 120V, 60Hz	<u>.</u>	,				
Test results:	Pass						



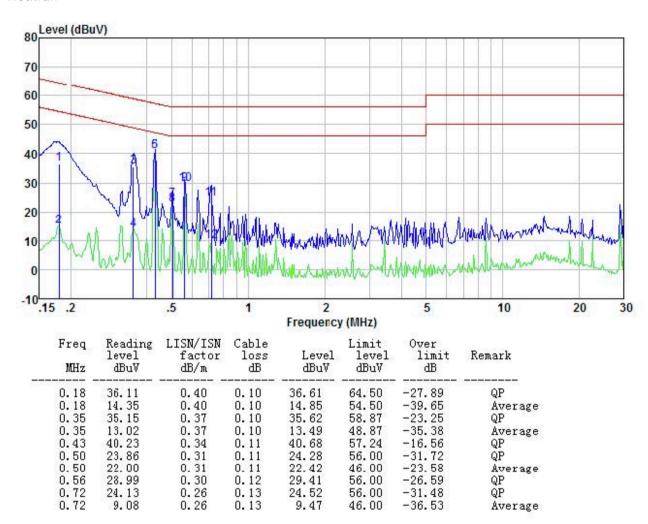
Measurement data Line:



	Freq	Reading	LISN/ISN	Cable	T	Limit	Over	- December 1
10000	MHz	level dBuV	factor dB/m	loss dB	Level dBuV	level dBuV	limit dB	Remark
	0.18	35.80	0.40	0.10	36.30	64.46	-28.16	QP
	0.18	15.23	0.40	0.10	15.73	54.46	-38.73	Average
	0.36	34.18	0.37	0.10	34.65	58.83	-24.18	QP
	0.36	11.94	0.37	0.10	12.41	48.83	-36.42	λverage
	0.43	35.70	0.34	0.11	36.15	57.24	-21.09	QP
	1.28	24.23	0.20	0.16	24.59	56.00	-31.41	QP
	1.28	21.55	0.20	0.16	21.91	46.00	-24.09	Average
	2.58	25.30	0.20	0.18	25.68	56.00	-30.32	QP
	2.58	23.45	0.20	0.18	23.83	46.00	-22.17	Average
	3.44	23.19	0.20	0.18	23.57	56.00	-32.43	QP
	3.44	19.25	0.20	0.18	19.63	46.00	-26.37	Average



Neutral:

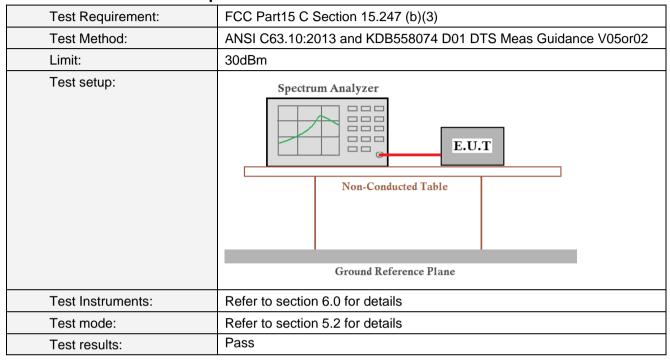


Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.3 Conducted Peak Output Power

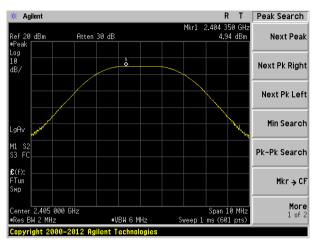


Measurement Data

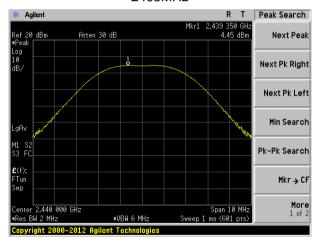
Frequency (MHz)	Peak Output Power (dBm)	Limit(dBm)	Result
2405	4.94		
2440	4.45	30	PASS
2480	5.10		



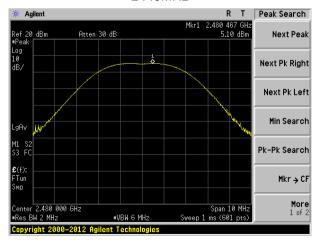
Test plot as follows:



2405MHz



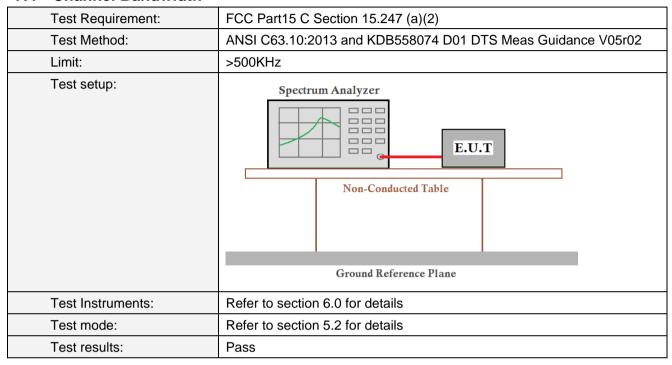
2440MHz



2480MHz



7.4 Channel Bandwidth



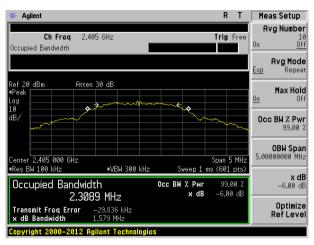
Measurement Data

Frequency (MHz)	Channel Bandwidth (MHz)	Limit(KHz)	Result
2405	1.579		
2440	1.587	>500	Pass
2480	1.719		

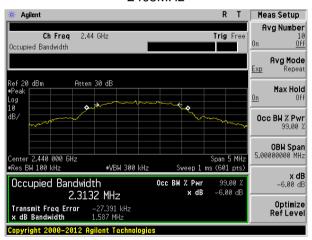
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960 Page 16 of 39



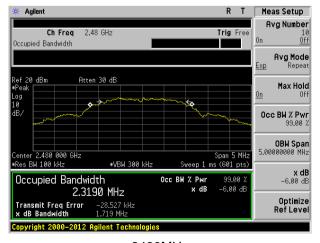
Test plot as follows:



2405MHz



2440MHz



2480MHz



7.5 Power Spectral Density

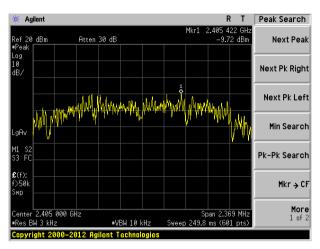
Test Requirement:	FCC Part15 C Section 15.247 (e)			
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02			
Limit:	8dBm/3kHz			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.2 for details			
Test results:	Pass			

Measurement Data

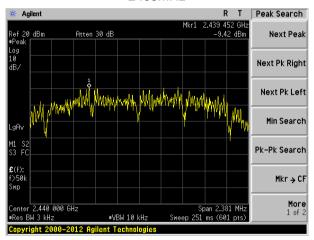
Frequency (MHz)	Power Spectral Density (dBm)	Limit (dBm/3kHz)	Result
2405	-9.72		
2440	-9.42	8.00	Pass
2480	-8.97		



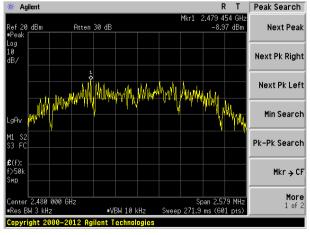
Test plot as follows:



2405MHz



2440MHz



2480MHz



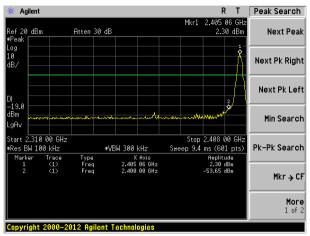
7.6 Band edges

7.6.1 Conducted Emission Method

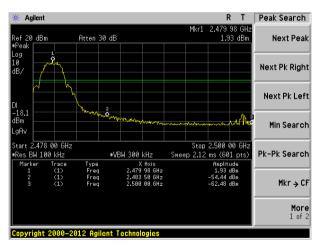
Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the 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.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				



Test plot as follows:



Lowest channel



Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.205				
Test Method:	ANSI C63.10:20)13					
Test Frequency Range:	All of the restric 2500MHz) data			the worst ba	and's (2310MHz		
Test site:	Measurement D	istance: 3m					
Receiver setup:	Frequency	Frequency Detector RBW VBW					
	Above 1GHz	Peak RMS	1MHz 1MHz	3MHz 3MHz	Peak		
Limit:	Freque		Limit (dBuV	_	Average Value		
	Above 1		54.0	0	Average		
	7 3 7 0 1		74.0	0	Peak		
		<u></u>	<3m>⊬	***			
	Tum Table+- <150cm>-		Test	Antenna-	erv		
Test Instruments:	<150cm>	6.0 for details	Test < 1m	1 4m >	erry		
Test Instruments: Test mode: Test results:	<150cm>	6.0 for details	Test < 1m	1 4m >	er+		

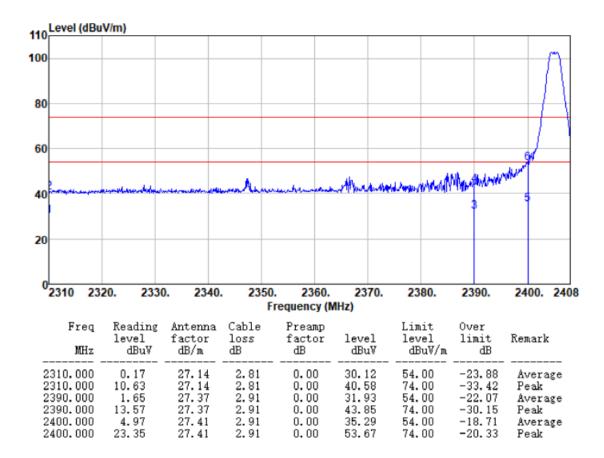
Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.



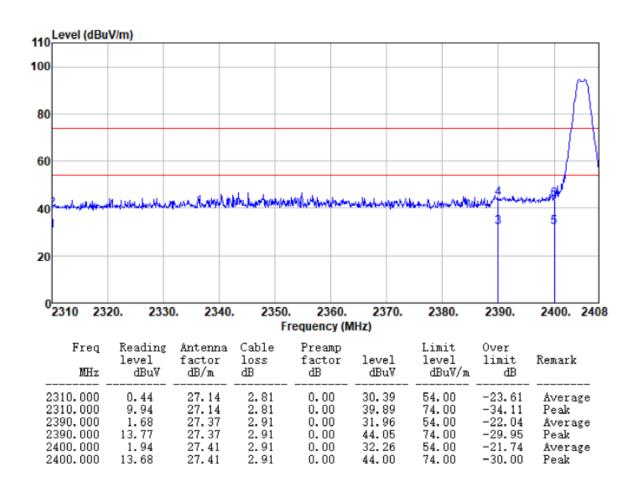
Test channel: 2405MHz

Horizontal:





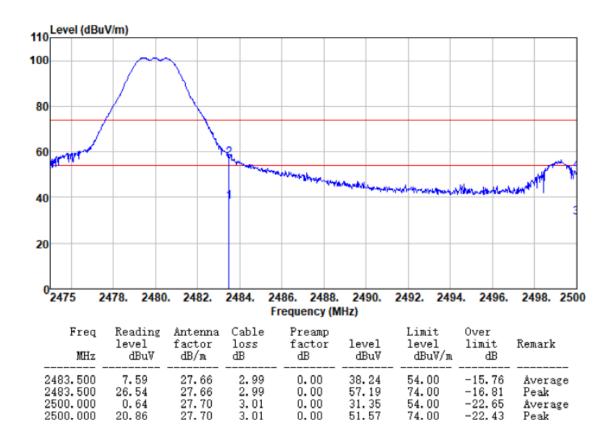
Vertical:





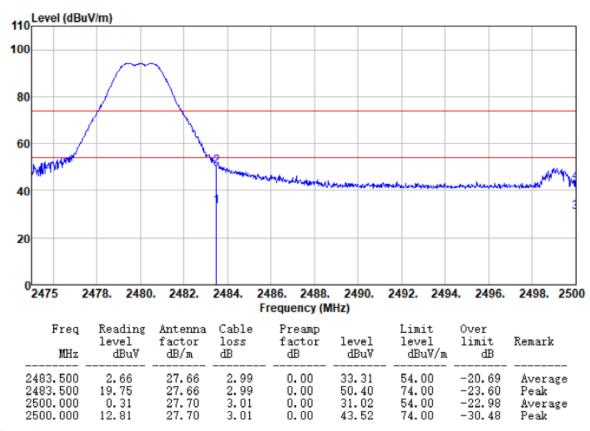
Test channel:	2480MHz	
---------------	---------	--

Horizontal:





Vertical:



Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



7.7 Spurious Emission

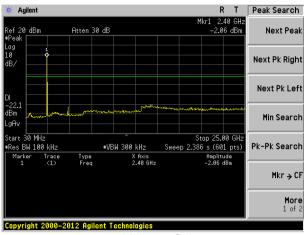
7.7.1 Conducted Emission Method

1.1.1 Conducted Linission W						
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					



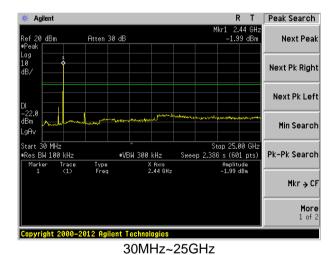
Test plot as follows:

Lowest channel

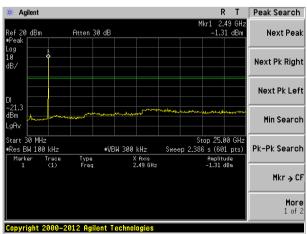


30MHz~25GHz

Middle channel



Highest channel



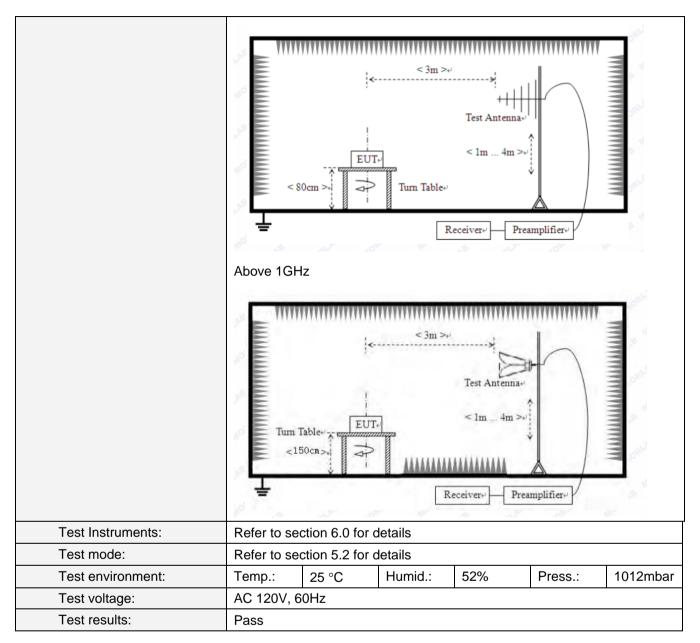
30MHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section	on 18	5.209					
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	9kHz to 25GHz							
Test site:	Measurement Distar	nce: :	3m					
Receiver setup:	Frequency		Detector	RB\	Ν	VBW	\	/alue
	9KHz-150KHz	ă	ıasi-peak	200l	Ηz	600Hz	z Qua	asi-peak
	150KHz-30MHz	Qι	ıasi-peak	9KF	łz	30KHz	z Qua	asi-peak
	30MHz-1GHz	Qι	ıasi-peak	120K	Ήz	300KH	lz Qua	asi-peak
	Above 1GHz		Peak	1MF	Ηz	3MHz	<u>:</u>	Peak
	Above TOTIZ		Peak	1MF	Ιz	10Hz	A۱	/erage
Limit: (Spurious Emissions)	Frequency		Limit (u\	//m)	V	alue		urement ance
	0.009MHz-0.490M	lHz	2400/F(k	(Hz)		QP	30	00m
	0.490MHz-1.705M	lHz	24000/F((Hz)		QP	30m	
	1.705MHz-30MH	lz	30			QP	30m	
	30MHz-88MHz		100		QP			
	88MHz-216MHz	<u> </u>	150		QP		3m	
	216MHz-960MH	Z	200			QP		
	960MHz-1GHz		500			QP	0111	
	Above 1GHz		500			erage		
	7.0010.101.2		5000)	P	eak		
Test setup:	Below 30MHz Turntable EUT Ground Plane	0	3m 8 m	Coaxial	Cable /	[Test Receiver	
	Below 1GHz							





Measurement data:

■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

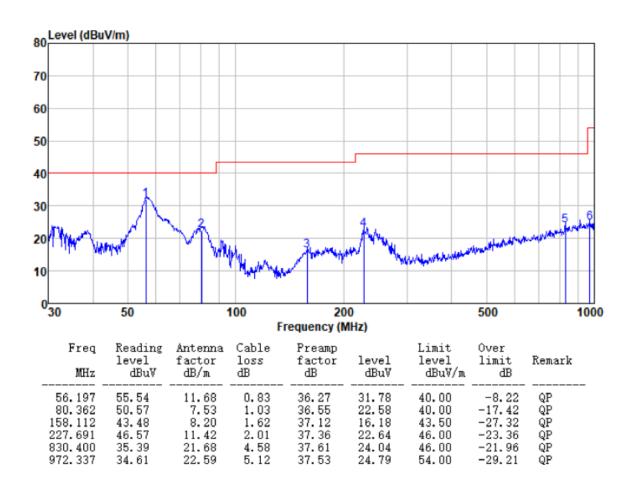
Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.



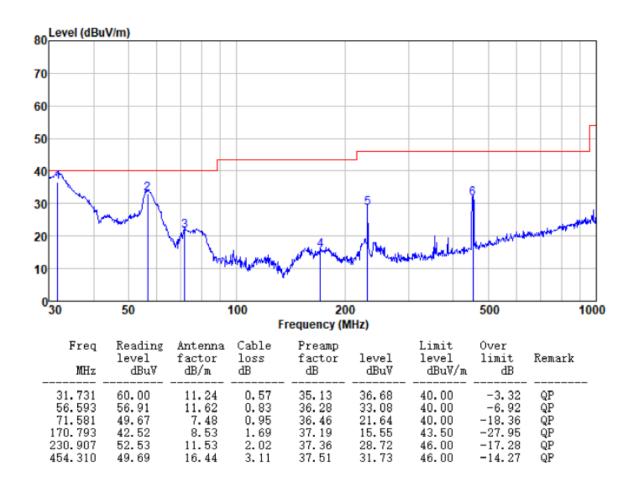
■ Below 1GHz

Horizontal:





Vertical:

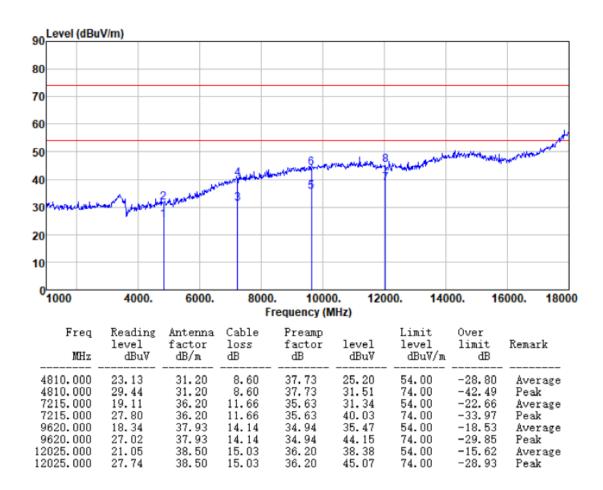




■ Above 1GHz

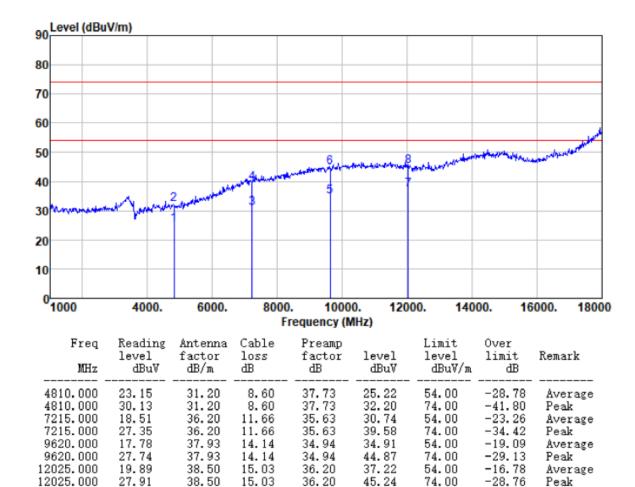
Test channel:	Lowest

Horizontal:





Vertical:



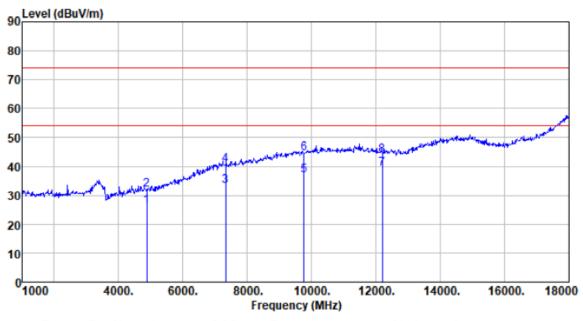
Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.



Test channel: Middle

Horizontal:

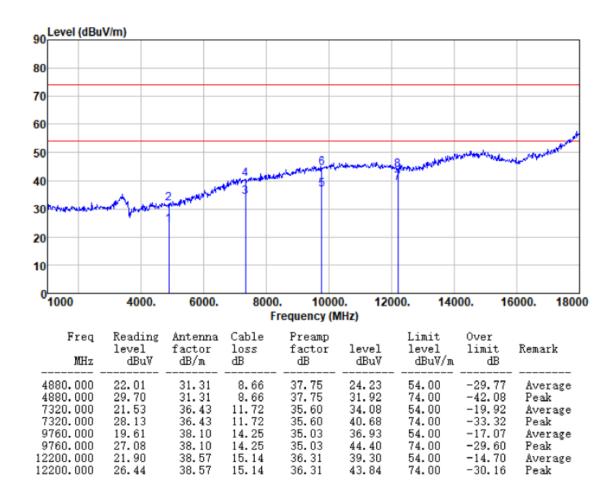


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4880.000	24.01	31.31	8.66	37.75	26.23	54.00	-27.77	Average
4880.000	29.70	31.31	8.66	37.75	31.92	74.00	-42.08	Peak
7320.000	20.53	36.43	11.72	35.60	33.08	54.00	-20.92	Average
7320.000	28.13	36.43	11.72	35.60	40.68	74.00	-33.32	Peak
9760.000	19.61	38.10	14.25	35.03	36.93	54.00	-17.07	Average
9760.000	27.08	38.10	14.25	35.03	44.40	74.00	-29.60	Peak
12200.000	21.90	38.57	15.14	36.31	39.30	54.00	-14.70	Average
12200.000	26.44	38.57	15.14	36.31	43.84	74.00	-30.16	Peak

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Vertical:

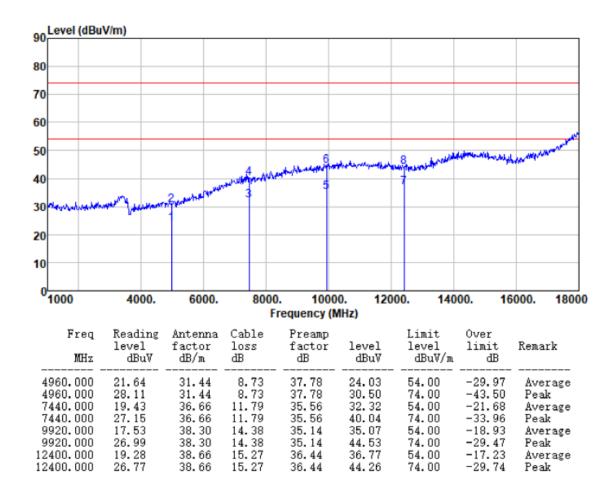


Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.

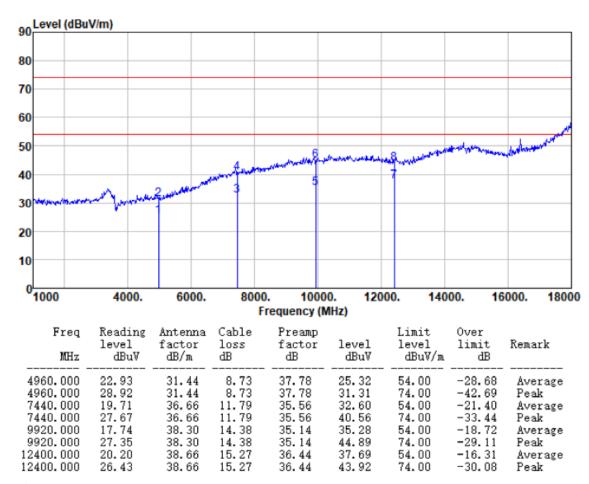


Horizontal:





Vertical:



Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.



8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

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