

Global United Technology Services Co., Ltd.

Report No.: GTSL2023090224F02

TEST REPORT

Applicant: Feit Electric Company

Address of Applicant: 4901 Gregg Road, Pico Rivera, California 90660, United

States

Manufacturer: SIGNCOMPLEX LIMITED

Address of No.70 Hexiang West Road, Heshan Industrial Park, Heshan,

Manufacturer: Guangdong, China

Equipment Under Test (EUT)

Product Name: LED portable luminaire

Model No.: LVSL24-12/RGBW/AG

Trade Mark: Feit Electric

FCC ID: SYW-LVSL2412RGBW

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

Date of sample receipt: September 21, 2023

Date of Test: September 22, 2023-October 10, 2023

Date of report issued: October 10, 2023

Test Result: PASS *

Authorized Signature:

Robinson Luo 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.

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



2 Version

Version No.	Date	Description
00	October 10, 2023	Original

Prepared By:	Trankly	Date:	October 10, 2023
	Project Engineer		
Check By:	Johnson lut	Date:	October 10, 2023
	Reviewer		

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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 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

Remarks:

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

2. Test according to ANSI C63.10:2013

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes			
Radiated Emission	9kHz-30MHz	3.1dB	(1)			
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 (1)						
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.			



5 General Information

5.1 General Description of EUT

Product Name:	LED portable luminaire
Model No.:	LVSL24-12/RGBW/AG
Test sample(s) ID:	GTSL2023090224-1
Sample(s) Status:	Engineer sample
Serial No.:	N/A
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Data Rate:	LE 1M PHY: 1 Mb/s
Modulation Type:	GFSK
Antenna Type:	PCB antenna
Antenna Gain:	2.21dBi(declare by applicant)
Power Supply:	Class 2 power unit
	Model: XY15SR-120125VQ-UT
	Input: AC 100-240V, 50/60Hz, 0.3A Max
	Output: DC 12.0V, 1.25A

Remark:

- 1. Antenna gain information provided by the customer
- 2. The relevant information of the sample is provided by the entrusting company, and the laboratory is not responsible for its authenticity.



Operation Frequency each of channel								
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
1	2402 MHz	11	2422 MHz	21	2442 MHz	31	2462 MHz	
2	2404 MHz	12	2424 MHz	22	2444 MHz	32	2464 MHz	
3	2406 MHz	13	2426 MHz	23	2446 MHz	33	2466 MHz	
4	2408 MHz	14	2428 MHz	24	2448 MHz	34	2468 MHz	
5	2410 MHz	15	2430 MHz	25	2450 MHz	35	2470 MHz	
6	2412 MHz	16	2432 MHz	26	2452 MHz	36	2472 MHz	
7	2414 MHz	17	2434 MHz	27	2454 MHz	37	2474 MHz	
8	2416 MHz	18	2436 MHz	28	2456 MHz	38	2476 MHz	
9	2418 MHz	19	2438 MHz	29	2458 MHz	39	2478 MHz	
10	2420 MHz	20	2440 MHz	30	2460 MHz	40	2480 MHz	

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	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

5.3 Description of Support Units

None.

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

Designation Number: CN5029

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.

• ISED—Registration No.: 9079A

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing

NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.8 Additional Instructions

Test Software	Test software provided by manufacturer
Power level setup	Default



6 Test Instruments list

Radia	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	June 23, 2021	June 22, 2024			
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	April 14, 2023	April 13, 2024			
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 19, 2023	March 18, 2025			
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	April 17, 2023	April 16, 2025			
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
7	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 14, 2023	April 13, 2024			
8	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 29, 2022	Nov. 28, 2023			
9	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 14, 2023	April 13, 2024			
10	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 14, 2023	April 13, 2024			
11	Horn Antenna (18- 26.5GHz)	1	UG-598A/U	GTS664	Oct. 30, 2022	Oct. 29, 2023			
12	Horn Antenna (26.5-40GHz)	A.H Systems	SAS-573	GTS665	Oct. 30, 2022	Oct. 29, 2023			
13	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	March 13, 2023	March 12, 2024			
14	Amplifier	1	LNA-1000-30S	GTS650	April 14, 2023	April 13, 2024			
15	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS668	Dec. 20, 2022	Dec.19, 2023			
16	Wideband Amplifier	1	WDA-01004000-15P35	GTS602	April 14, 2023	April 13, 2024			
17	Thermo meter	JINCHUANG	GSP-8A	GTS643	April 19, 2023	April 18, 2024			
18	RE cable 1	GTS	N/A	GTS675	July 31. 2023	July 30. 2024			
19	RE cable 2	GTS	N/A	GTS676	July 31. 2023	July 30. 2024			
20	RE cable 3	GTS	N/A	GTS677	July 31. 2023	July 30. 2024			
21	RE cable 4	GTS	N/A	GTS678	July 31. 2023	July 30. 2024			
22	RE cable 5	GTS	N/A	GTS679	July 31. 2023	July 30. 2024			
23	RE cable 6	GTS	N/A	GTS680	July 31. 2023	July 30. 2024			
24	RE cable 7	GTS	N/A	GTS681	July 31. 2023	July 30. 2024			
25	RE cable 8	GTS	N/A	GTS682	July 31. 2023	July 30. 2024			

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Con	Conducted Emission								
Item	Test Equipment	Manufacturer Model No.		Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	July 12, 2022	July 11, 2027			
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 14, 2023	April 13, 2024			
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	April 14, 2023	April 13, 2024			
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A			
5	5 EMI Test Software AUDIX		E3	N/A	N/A	N/A			
6	Thermo meter	JINCHUANG	GSP-8A	GTS642	April 19, 2023	April 18, 2024			
7 Absorbing clamp		Elektronik- Feinmechanik	MDS21	GTS229	April 14, 2023	April 13, 2024			
8	ISN	SCHWARZBECK	NTFM 8158	GTS565	April 14, 2023	April 13, 2024			
9	High voltage probe	SCHWARZBECK	TK9420	GTS537	April 14, 2023	April 13, 2024			
10	Antenna end assembly	Weinschel	1870A	GTS560	April 14, 2023	April 13, 2024			

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	April 14, 2023	April 13, 2024			
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 14, 2023	April 13, 2024			
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	April 14, 2023	April 13, 2024			
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 14, 2023	April 13, 2024			
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 14, 2023	April 13, 2024			
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 14, 2023	April 13, 2024			
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 14, 2023	April 13, 2024			
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 14, 2023	April 13, 2024			
9	Thermo meter	JINCHUANG	GSP-8A	GTS641	April 19, 2023	April 18, 2024			
10	EXA Signal Analyzer	Keysight	N9010B	MY60241168	Nov. 04, 2022	Nov. 03, 2023			

General used equipment:									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Barometer	KUMAO	SF132	GTS647	April 19, 2023	April 18, 2024			

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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.

E.U.T Antenna:

The antenna is PCB antenna, reference to the appendix II for details



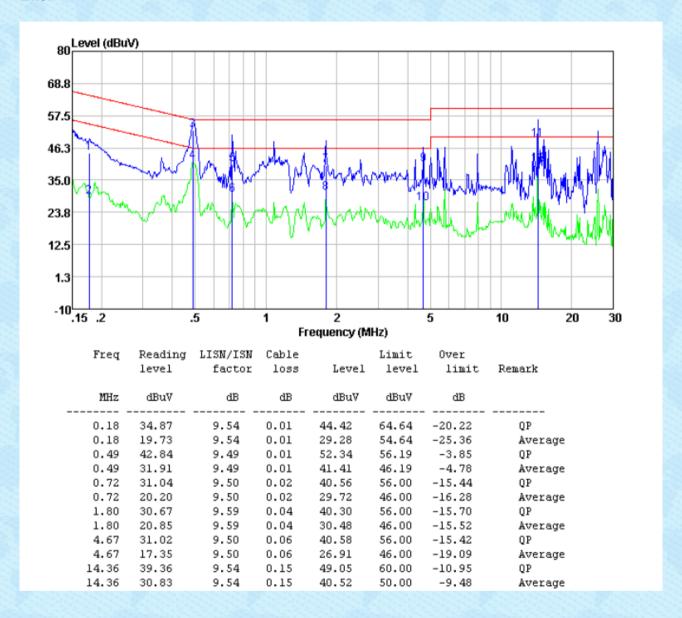
7.2 Conducted Emissions

The second second second second	iducted Lillissions		A STATE OF THE STA						
Test	Requirement:	FCC Part15 C Section 15.207							
Test	Method:	ANSI C63.10:2013							
Test	Frequency Range:	150KHz to 30MHz							
Rece	eiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto							
Limit	:	Fragueney range (MHZ)	(dBuV)						
		Frequency range (MHz)	Quasi-peak	Average					
		0.15-0.5	66 to 56*	56 to 46*					
		0.5-5 5-30	56 60	46					
		* Decreases with the logarithm		50					
Test	setup:	Reference Plane							
		AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	EMI Receiver	AC power					
Test	procedure:	 The E.U.T and simulators a line impedance stabilization 500hm/50uH coupling impedance. The peripheral devices are LISN that provides a 500hr termination. (Please refer to photographs). Both sides of A.C. line are interference. In order to fine positions of equipment and according to ANSI C63.10: 	n network (L.I.S.N.). redance for the measuralso connected to the m/50uH coupling imported the block diagram of the checked for maximum difference call of the interface call	This provides a uring equipment. The main power through a redance with 500hm of the test setup and redanced sion, the relative ables must be changed					
Test	Instruments:	Refer to section 6.0 for details							
Test	mode:	Refer to section 5.2 for details							
Test	environment:	Temp.: 25 °C Hun	nid.: 52%	Press.: 1012mbar					
Test	voltage:	AC 120V, 60Hz							
Test	results:	Pass							
AND THE PARTY OF T									



Measurement data:

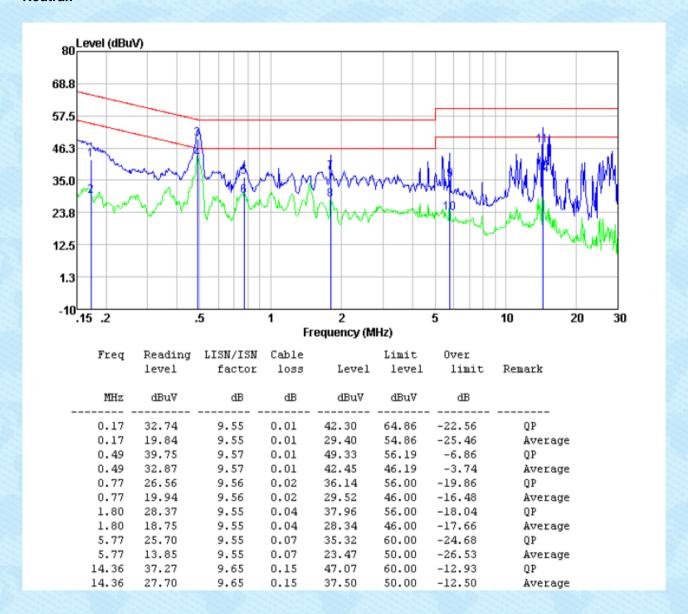
Pre-scan all test modes, found worst case at 2402MHz, and so only show the test result of it **Line:**



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Neutral:

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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



7.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	30dBm
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



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r0.					
Limit:	>500KHz					
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					



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 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



7.6 Spurious Emission in Non-restricted & restricted Bands

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 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 30 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					

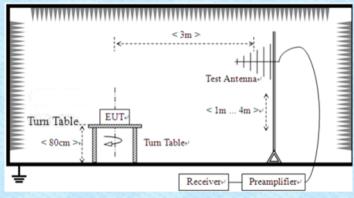


7.6.2 Radiated Emission Method

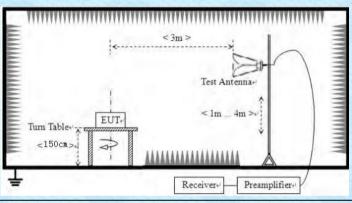
7.6.2 Radiated Emission Weti									
Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	Detector	RB	W	VBW	Value			
	9KHz-150KHz	Quasi-pea	k 200	Hz	600Hz	Quasi-peak			
			k 9K	Hz :	30KHz	Quasi-peak			
	30MHz-1GHz	Quasi-pea	k 120	KHz 3	300KHz	Quasi-peak			
	Above 1GHz	Peak	1M	Hz	3MHz	Peak			
	Above IGHZ	Peak	1M	Hz	10Hz	Average			
	Note: For Duty cycle cycle < 98%, average		The second secon						
Limit:	Frequency	Limit	(uV/m)	Val	lue	Measurement Distance			
	0.009MHz-0.490M	Hz 2400	F(KHz)	PK/Q	P/AV	300m			
	0.490MHz-1.705M	Hz 24000	/F(KHz)	QP		30m			
	1.705MHz-30MH	lz	30		Р	30m			
	30MHz-88MHz		100		Р				
	88MHz-216MHz	2	150		Р				
	216MHz-960MH	z 2	200		Р	3m			
	960MHz-1GHz		00	Q	Р	Sili			
	Above 1GHz		00	Avei	rage				
	Above 1GHz	5	000	Pe	ak				
Test setup:	For radiated emiss	sions from 9	kHz to 3	0MHz					
	Tum Table EUI	_	est Antenna	P. P					



For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



Test Procedure:

- 1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



	Report No.: GTSL2023090224F02							
Test Instruments:	Refer to se	Refer to section 6.0 for details						
Test mode:	Refer to se	Refer to section 5.2 for details						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar		
Test voltage:	AC 120V, 6	60Hz						
Test results:	Pass							

Measurement data:

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.

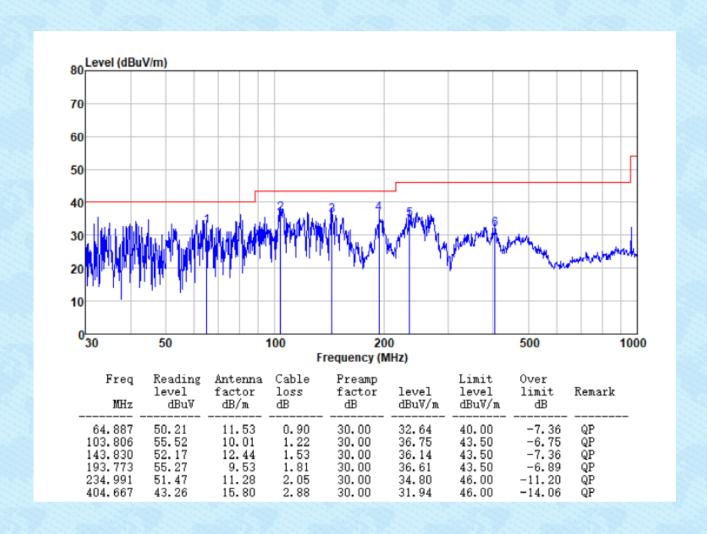
■ 9kHz~30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



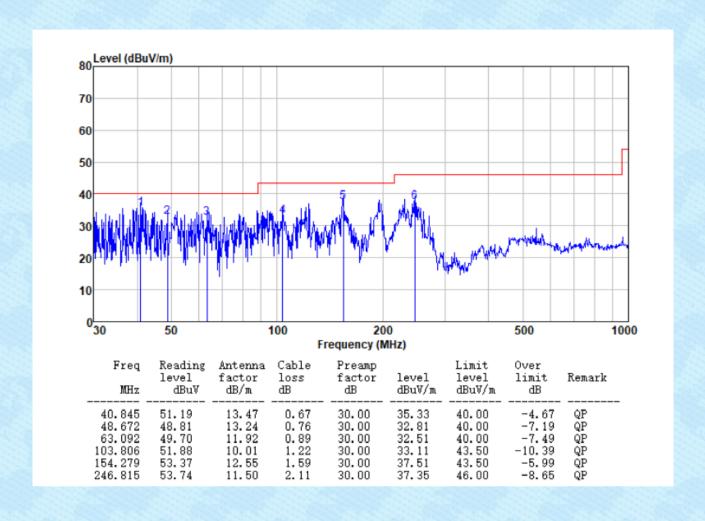
■ Below 1GHz

Pre-scan all test modes, found worst case at 2402MHz, and so only show the test result of it **Horizontal:**





Vertical:





Above 1GHz

■ Unwanted Emissions in Non-restricted Frequency Bands

Test channe	Lowest channel							
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	35.78	31.78	8.60	32.09	44.07	74.00	-29.93	Vertical
7206.00	30.48	36.15	11.65	32.00	46.28	74.00	-27.72	Vertical
9608.00	30.83	37.95	14.14	31.62	51.30	74.00	-22.70	Vertical
4804.00	39.95	31.78	8.60	32.09	48.24	74.00	-25.76	Horizontal
7206.00	32.41	36.15	11.65	32.00	48.21	74.00	-25.79	Horizontal
9608.00	29.47	37.95	14.14	31.62	49.94	74.00	-24.06	Horizontal
Average val	ue:		Print 3					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	24.45	31.78	8.60	32.09	32.74	54.00	-21.26	Vertical
7206.00	19.44	36.15	11.65	32.00	35.24	54.00	-18.76	Vertical
9608.00	18.86	37.95	14.14	31.62	39.33	54.00	-14.67	Vertical
4804.00	28.75	31.78	8.60	32.09	37.04	54.00	-16.96	Horizontal
7206.00	21.56	36.15	11.65	32.00	37.36	54.00	-16.64	Horizontal
9608.00	18.74	37.95	14.14	31.62	39.21	54.00	-14.79	Horizontal



Test channel		Middle channel								
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization		
4880.00	36.14	31.85	8.67	32.12	44.54	74.00	-29.46	Vertical		
7320.00	30.72	36.37	11.72	31.89	46.92	74.00	-27.08	Vertical		
9760.00	31.05	38.35	14.25	31.62	52.03	74.00	-21.97	Vertical		
4880.00	40.39	31.85	8.67	32.12	48.79	74.00	-25.21	Horizontal		
7320.00	32.68	36.37	11.72	31.89	48.88	74.00	-25.12	Horizontal		
9760.00	29.72	38.35	14.25	31.62	50.70	74.00	-23.30	Horizontal		
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization		
4880.00	24.75	31.85	8.67	32.12	33.15	54.00	-20.85	Vertical		
7320.00	19.64	36.37	11.72	31.89	35.84	54.00	-18.16	Vertical		
9760.00	19.04	38.35	14.25	31.62	40.02	54.00	-13.98	Vertical		
4880.00	29.09	31.85	8.67	32.12	37.49	54.00	-16.51	Horizontal		
7320.00	21.79	36.37	11.72	31.89	37.99	54.00	-16.01	Horizontal		
9760.00	18.95	38.35	14.25	31.62	39.93	54.00	-14.07	Horizontal		



Test channel:				Highest channel					
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4960.00	36.20	31.93	8.73	32.16	44.70	74.00	-29.30	Vertical	
7440.00	30.75	36.59	11.79	31.78	47.35	74.00	-26.65	Vertical	
9920.00	31.08	38.81	14.38	31.88	52.39	74.00	-21.61	Vertical	
4960.00	40.45	31.93	8.73	32.16	48.95	74.00	-25.05	Horizontal	
7440.00	32.72	36.59	11.79	31.78	49.32	74.00	-24.68	Horizontal	
9920.00	29.76	38.81	14.38	31.88	51.07	74.00	-22.93	Horizontal	
Average val	ue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4960.00	24.81	31.93	8.73	32.16	33.31	54.00	-20.69	Vertical	
7440.00	19.68	36.59	11.79	31.78	36.28	54.00	-17.72	Vertical	
9920.00	19.08	38.81	14.38	31.88	40.39	54.00	-13.61	Vertical	
4960.00	29.16	31.93	8.73	32.16	37.66	54.00	-16.34	Horizontal	
7440.00	21.84	36.59	11.79	31.78	38.44	54.00	-15.56	Horizontal	
9920.00	19.00	38.81	14.38	31.88	40.31	54.00	-13.69	Horizontal	

Remarks:

- 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.



■ Unwanted Emissions in Restricted Frequency Bands

Test channel:					Lowest channel				
Peak value:									
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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	44.09	27.17	2.81	38.52	35.55	74.00	-38.45	Horizontal
2390.00	47.28	27.27	2.91	38.56	38.90	74.00	-35.10	Horizontal
2310.00	44.07	27.17	2.81	38.52	35.53	74.00	-38.47	Vertical
2390.00	48.54	27.27	2.91	38.56	40.16	74.00	-33.84	Vertical

Average value:

Attornage tundor								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	34.06	27.17	2.81	38.52	25.52	54.00	-28.48	Horizontal
2390.00	35.50	27.27	2.91	38.56	27.12	54.00	-26.88	Horizontal
2310.00	34.06	27.17	2.81	38.52	25.52	54.00	-28.48	Vertical
2390.00	35.91	27.27	2.91	38.56	27.53	54.00	-26.47	Vertical

	+	
А	Test channel:	Highest channel

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	45.94	27.38	2.99	38.59	37.72	74.00	-36.28	Horizontal
2500.00	45.04	27.40	3.01	38.60	36.85	74.00	-37.15	Horizontal
2483.50	46.86	27.38	2.99	38.59	38.64	74.00	-35.36	Vertical
2500.00	46.07	27.40	3.01	38.60	37.88	74.00	-36.12	Vertical

Average value:

Attornage variation								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	35.01	27.38	2.99	38.59	26.79	54.00	-27.21	Horizontal
2500.00	35.09	27.40	3.01	38.60	26.90	54.00	-27.10	Horizontal
2483.50	36.08	27.38	2.99	38.59	27.86	54.00	-26.14	Vertical
2500.00	35.10	27.40	3.01	38.60	26.91	54.00	-27.09	Vertical

Remarks:

- 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.



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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