

Global United Technology Services Co., Ltd.

Report No.: GTS2024070218F01

TEST REPORT

Applicant: MYHP LIMITED

Address of Applicant: Victory Factory Building Unit 30, 2FL, 16 Wong Chuk Hang

Road, Wong Chuk Hang, Hong Kong, China

Manufacturer: MYHP LIMITED

Address of Victory Factory Building Unit 30, 2FL, 16 Wong Chuk Hang

Manufacturer: Road, Wong Chuk Hang, Hong Kong, China

Equipment Under Test (EUT)

Product Name: LED FLOOR LAMP

Model No.: VIP-R, VIP-R C

FCC ID: 2BH9E-VIPR

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

Date of sample receipt: July 23, 2024

Date of Test: July 24, 2024-August 14, 2024

Date of report issued: August 14, 2024

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	August 14, 2024	Original

Prepared By:	Project Engineer	Date:	August 14, 2024
Check By:	Reviewer	Date:	August 14, 2024

GTS

Report No.: GTS2024070218F01

3 Contents

			Page
1	CO	/ER PAGE	1
^	VEE	SION	
2	VER	5IUN	2
3	CON	ITENTS	3
4	TES	T SUMMARY	4
5	GEN	IERAL INFORMATION	5
	5.1	GENERAL DESCRIPTION OF EUT	
	5.2	TEST MODE	
	5.3	DESCRIPTION OF SUPPORT UNITS	
	5.4	DEVIATION FROM STANDARDS	
	5.5	ABNORMALITIES FROM STANDARD CONDITIONS	
	5.6	TEST FACILITY	
	5.7	TEST LOCATION	7
	5.8	ADDITIONAL INSTRUCTIONS	7
6	TES	T INSTRUMENTS LIST	8
į			
7	TES	T RESULTS AND MEASUREMENT DATA	10
	7.1	ANTENNA REQUIREMENT	10
	7.2	CONDUCTED EMISSIONS	11
	7.3	CONDUCTED OUTPUT POWER	14
	7.4	CHANNEL BANDWIDTH	15
	7.5	POWER SPECTRAL DENSITY	
	7.6	SPURIOUS EMISSION IN NON-RESTRICTED & RESTRICTED BANDS	
	7.6.		
	7.6.2	2 Radiated Emission Method	18
8	TES	T SETUP PHOTO	27
9	EUT	CONSTRUCTIONAL DETAILS	27
J	EUI	CUNSTRUCTIONAL DETAILS	Z1



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

No.	Item	Measurement Uncertainty		
1	Radio Frequency	±7.25×10 ⁻⁸		
2	Duty cycle	±0.37%		
3	Occupied Bandwidth	±3%		
4	RF conducted power	±0.75dB		
5	RF power density	±3dB		
6	Conducted Spurious emissions	±2.58dB		
7	AC Power Line Conducted Emission	±3.44dB (0.15MHz ~ 30MHz)		
		±3.1dB (9kHz-30MHz)		
		±3.8039dB (30MHz-200MHz)		
8	Radiated Spurious emission test	±3.9679dB (200MHz-1GHz)		
		±4.29dB (1GHz-18GHz)		
		±3.30dB (18GHz-40GHz)		
9	Temperature test	±1°C		
10	Humidity test	±3%		
11	Time ±3%			



5 General Information

5.1 General Description of EUT

Product Name:	LED FLOOR LAMP
Model No.:	VIP-R, VIP-R C
Test Model No.:	VIP-R
	identical in the same PCB layout, interior structure and electrical that the VIP-R base has a battery pack, and the VIP-R C base does not
Test sample(s) ID:	GTS2024070218-1
Sample(s) Status:	Engineer sample
S/N:	N/A
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Data Rate:	LE 1M PHY: 1 Mb/s
Antenna Type:	PCB Antenna
Antenna Gain:	2.42dBi(Declared by applicant)
Power Supply:	AC 100~240V 50/60Hz 45W
	DC 14.4V, 23.5Wh for Li-ion battery

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

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number	
HUAWEI	Mobile Phone	MATE 30	N/A	

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	Special 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 22, 2024	June 21, 2027	
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 11, 2024	April 10, 2025	
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 11, 2024	April 10, 2025	
8	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 13, 2023	Nov.12, 2024	
9	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 11, 2024	April 10, 2025	
10	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 11, 2024	April 10, 2025	
11	Horn Antenna (18- 26.5GHz)	1	UG-598A/U	GTS664	Oct. 29, 2023	Oct. 28, 2024	
12	Horn Antenna (26.5-40GHz)	A.H Systems	SAS-573	GTS665	Oct. 29, 2023	Oct. 28, 2024	
13	FSV-Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	March 12, 2024	March 11, 2025	
14	Amplifier		LNA-1000-30S	GTS650	April 11, 2024	April 10, 2025	
15	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 08, 2023	Nov.07, 2024	
16	Wideband Amplifier	1	WDA-01004000-15P35	GTS602	April 11, 2024	April 10, 2025	
17	Thermo meter	JINCHUANG	GSP-8A	GTS643	April 18, 2024	April 17, 2025	
18	RE cable 1	GTS	N/A	GTS675	July 02. 2024	July 01. 2025	
19	RE cable 2	GTS	N/A	GTS676	July 02. 2024	July 01. 2025	
20	RE cable 3	GTS	N/A	GTS677	July 02. 2024	July 01. 2025	
21	RE cable 4	GTS	N/A	GTS678	July 02. 2024	July 01. 2025	
22	RE cable 5	GTS	N/A	GTS679	July 02. 2024	July 01. 2025	
23	RE cable 6	GTS	N/A	GTS680	July 02. 2024	July 01. 2025	
24	RE cable 7	GTS	N/A	GTS681	July 05. 2024	July 04. 2025	
25	RE cable 8	GTS	N/A	GTS682	July 05. 2024	July 04. 2025	



Cond	ucted 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 11, 2024	April 10, 2025
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	April 11, 2024	April 10, 2025
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Thermo meter	JINCHUANG	GSP-8A	GTS642	April 18, 2024	April 17, 2025
7	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	April 11, 2024	April 10, 2025
8	ISN	SCHWARZBECK	NTFM 8158	GTS565	April 11, 2024	April 10, 2025
9	High voltage probe	SCHWARZBECK	TK9420	GTS537	April 11, 2024	April 10, 2025
10	Antenna end assembly	Weinschel	1870A	GTS560	April 11, 2024	April 10, 2025

RF C	onducted 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 11, 2024	April 10, 2025
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 11, 2024	April 10, 2025
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	April 11, 2024	April 10, 2025
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 11, 2024	April 10, 2025
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 11, 2024	April 10, 2025
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 11, 2024	April 10, 2025
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 11, 2024	April 10, 2025
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880 GTS572		April 11, 2024	April 10, 2025
9	Thermo meter	JINCHUANG	GSP-8A	GTS641	April 18, 2024	April 17, 2025
10	EXA Signal Analyzer	Keysight	N9010B	MY60241168	Nov. 03, 2023	Nov. 02, 2024

Gen	General used equipment:									
Item	Test Equipment	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)						
1	Barometer	KUMAO	SF132	GTS647	April 18, 2024	April 17, 2025				

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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

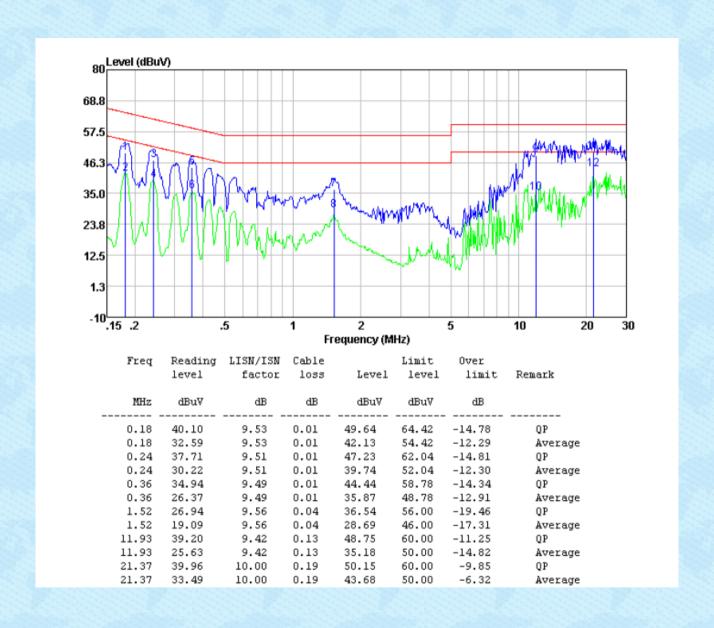
The second secon										
Test Requirement:	FCC Part15 C Section 15.207									
Test Method:	ANSI C63.10:2013									
Test Frequency Range:	150KHz to 30MHz									
Receiver setup:	RBW=9KHz, VBW=30KHz, St	weep time=auto								
Limit:	Frequency range (MHz)	Limit ((dBuV)							
		Quasi-peak	Average							
	0.15-0.5	66 to 56*	56 to 46*							
	0.5-5 5-30	56 60	46 50							
	* Decreases with the logarithm		30							
Test setup:	Reference Pla									
	LISN 40cm LISN 80cm LISN									
	Test table/Insulation plane	EMI Receiver	— AC power							
Test procedure:	E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network The E.U.T and simulators a line impedance stabilization 500hm/50uH coupling impedance.	are connected to the r	his provides a							
	2. The peripheral devices are LISN that provides a 50ohr termination. (Please refer to photographs).	m/50uH coupling impe	edance with 50ohm							
	3. Both sides of A.C. line are interference. In order to fine positions of equipment and according to ANSI C63.10:	d the maximum emiss I all of the interface ca	ion, the relative bles 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									
Tool roodito.	1 450									

GTS

Report No.: GTS2024070218F01

Measurement data

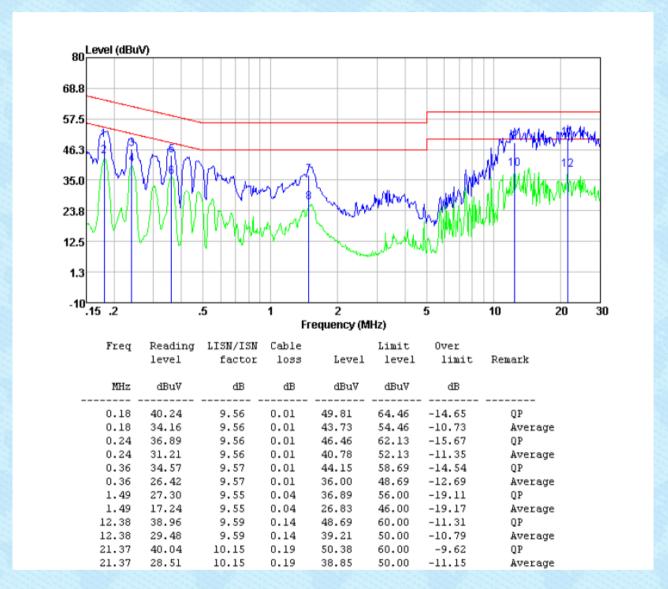
Pre-scan all test modes, found worst case at 2480MHz, and so only show the test result of 2480MHz Line





Neutral

Report No.: GTS2024070218F01

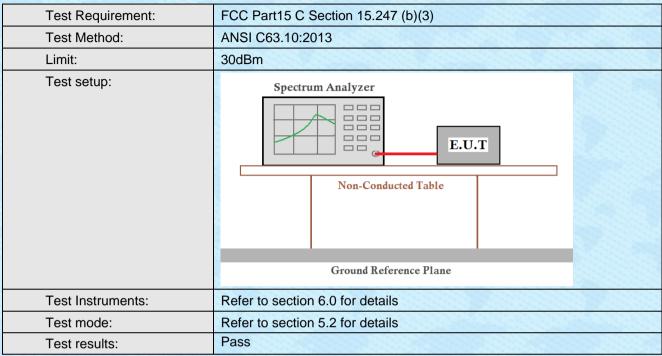


Notes:

- 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.

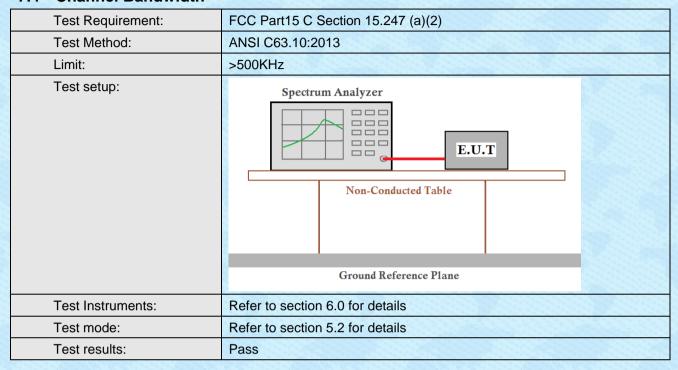


7.3 Conducted Output Power



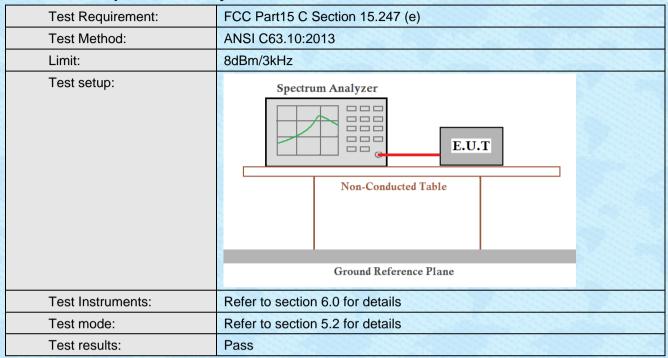


7.4 Channel Bandwidth





7.5 Power Spectral Density





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						
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						

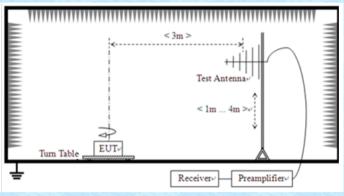


7.6.2 Radiated Emission Method

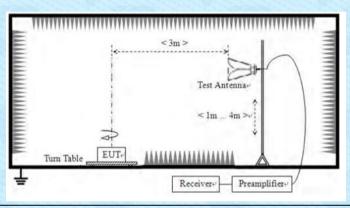
	on 15.209							
ANIOL 000 40 0040	FCC Part15 C Section 15.209							
ANSI C63.10:2013								
9kHz to 25GHz								
Measurement Distar	nce: 3m							
Frequency	Detector	RBW	VBW	Value				
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak				
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak				
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak				
Above 1CHz	Peak	1MHz	3MHz	Peak				
Above IGHZ	Peak		10Hz	Average				
Note: For Duty cycle ≥ 98%, average detector set as above Fo cycle < 98%, average detector set as below: VBW ≥ 1 / T								
Frequency Limit (uV/m) Value Measure Distant								
0.009MHz-0.490M	Hz 2400/F(k	(Hz) QF	P/PK/AV	300m				
0.490MHz-1.705M	Hz 24000/F(KHz)	QP	30m				
1.705MHz-30MH	z 30		QP	30m				
30MHz-88MHz	100		QP					
88MHz-216MHz	150		QP					
216MHz-960MH	z 200		QP	3m				
960MHz-1GHz	500		QP	SIII				
Above 1GHz	500	Α	verage					
Above 19112	5000		Peak					
For radiated emiss	ions from 9kH	z to 30MH	Z					
7		Tes	t Antenna					
	Frequency 9KHz-150KHz 150KHz-30MHz 30MHz-1GHz Above 1GHz Note: For Duty cycle cycle < 98%, average Frequency 0.009MHz-0.490M 0.490MHz-1.705M 1.705MHz-30MH 30MHz-88MHz 88MHz-216MHz 216MHz-960MH 960MHz-1GHz Above 1GHz For radiated emiss	Frequency Detector 9KHz-150KHz Quasi-peak 150KHz-30MHz Quasi-peak 30MHz-1GHz Quasi-peak Above 1GHz Peak Note: For Duty cycle ≥ 98%, average cycle < 98%, average detector set a Frequency Limit (u\) 0.009MHz-0.490MHz 2400/F(k) 0.490MHz-1.705MHz 24000/F(k) 1.705MHz-30MHz 30 30MHz-88MHz 100 88MHz-216MHz 150 216MHz-960MHz 200 960MHz-1GHz 500 Above 1GHz 5000 For radiated emissions from 9kHz 43m >	Frequency Detector RBW 9KHz-150KHz Quasi-peak 200Hz 150KHz-30MHz Quasi-peak 9KHz 30MHz-1GHz Quasi-peak 120KHz Above 1GHz Peak 1MHz Note: For Duty cycle ≥ 98%, average detector cycle < 98%, average detector set as below: VE Frequency Limit (uV/m) 0.009MHz-0.490MHz 24000/F(KHz) QF 0.490MHz-1.705MHz 24000/F(KHz) 1.705MHz-30MHz 30 30MHz-88MHz 100 88MHz-216MHz 150 216MHz-960MHz 200 960MHz-1GHz 500 Above 1GHz 5000 For radiated emissions from 9kHz to 30MH	Frequency Detector RBW VBW 9KHz-150KHz Quasi-peak 200Hz 600Hz 150KHz-30MHz Quasi-peak 9KHz 30KHz 30MHz-1GHz Quasi-peak 120KHz 300KHz Above 1GHz Peak 1MHz 10Hz Note: For Duty cycle ≥ 98%, average detector set as abo cycle < 98%, average detector set as below: VBW ≥ 1 / T Frequency Limit (uV/m) Value 0.009MHz-0.490MHz 2400/F(KHz) QP/PK/AV 0.490MHz-1.705MHz 24000/F(KHz) QP 1.705MHz-30MHz 30 QP 30MHz-88MHz 100 QP 88MHz-216MHz 150 QP 216MHz-960MHz 200 QP 960MHz-1GHz 500 QP 960MHz-1GHz 500 Average 5000 Average 5000 Peak For radiated emissions from 9kHz to 30MHz				



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 ·	CTO	2202	107	121	QEO1
Report	INO	GIS	つとひとり	4U/ 1	JZ I	OFUL

Test Instruments:	Refer to section 6.0 for details								
Test mode:	Refer to section 5.2 for details								
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1012mb								
Test voltage:	AC 120V, 60Hz								
Test results:	Pass	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.

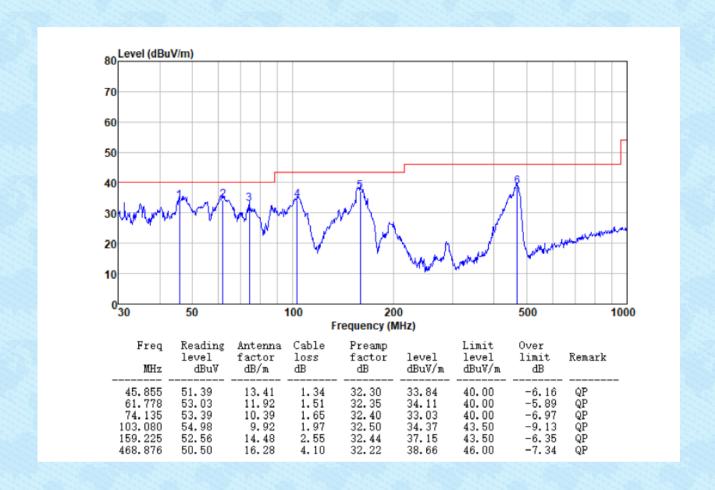
■ 9kHz~30MHz

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

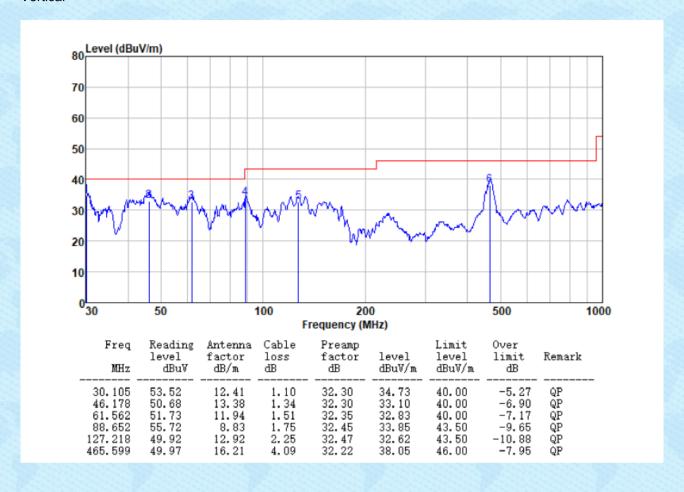
Pre-scan all test modes, found worst case at 2480MHz, and so only show the test result of 2480MHz Horizontal





Vertical

Report No.: GTS2024070218F01





Above 1GHz

■ Unwanted Emissions in Non-restricted Frequency Bands

Unwanted Emissions in Non-restricted Frequency Bands										
Test channe	 :			Lowest ch	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	36.23	31.06	16.91	38.36	45.84	74.00	-28.16	Vertical		
7206.00	30.78	35.91	23.33	38.96	51.06	74.00	-22.94	Vertical		
9608.00	31.10	37.91	30.16	39.68	59.49	74.00	-14.51	Vertical		
4804.00	40.50	31.06	16.91	38.36	50.11	74.00	-23.89	Horizontal		
7206.00	32.75	35.91	23.33	38.96	53.03	74.00	-20.97	Horizontal		
9608.00	29.78	37.91	30.16	39.68	58.17	74.00	-15.83	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		
4804.00	24.82	31.06	16.91	38.36	34.43	54.00	-19.57	Vertical		
7206.00	19.69	35.91	23.33	38.96	39.97	54.00	-14.03	Vertical		
9608.00	19.09	37.91	30.16	39.68	47.48	54.00	-6.52	Vertical		
4804.00	29.17	31.06	16.91	38.36	38.78	54.00	-15.22	Horizontal		
7206.00	21.84	35.91	23.33	38.96	42.12	54.00	-11.88	Horizontal		
9608.00	19.00	37.91	30.16	39.68	47.39	54.00	-6.61	Horizontal		



Test channe	l:			Middle ch	annel						
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	36.46	31.28	17.16	38.38	46.52	74.00	-27.48	Vertical			
7320.00	30.93	36.16	24.06	39.00	52.15	74.00	-21.85	Vertical			
9760.00	31.23	38.06	30.51	39.72	60.08	74.00	-13.92	Vertical			
4880.00	40.77	31.28	17.16	38.38	50.83	74.00	-23.17	Horizontal			
7320.00	32.92	36.16	24.06	39.00	54.14	74.00	-19.86	Horizontal			
9760.00	29.94	38.06	30.51	39.72	58.79	74.00	-15.21	Horizontal			
Average val	ue:		F								
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	25.01	31.28	17.16	38.38	35.07	54.00	-18.93	Vertical			
7320.00	19.81	36.16	24.06	39.00	41.03	54.00	-12.97	Vertical			
9760.00	19.20	38.06	30.51	39.72	48.05	54.00	-5.95	Vertical			
4880.00	29.38	31.28	17.16	38.38	39.44	54.00	-14.56	Horizontal			
7320.00	21.98	36.16	24.06	39.00	43.20	54.00	-10.80	Horizontal			
9760.00	19.14	38.06	30.51	39.72	47.99	54.00	-6.01	Horizontal			



Test channel	:			Highest c	hannel						
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	36.30	31.52	17.43	38.54	46.71	74.00	-27.29	Vertical			
7440.00	30.82	36.34	24.43	39.23	52.36	74.00	-21.64	Vertical			
9920.00	31.14	38.32	30.75	39.96	60.25	74.00	-13.75	Vertical			
4960.00	40.57	31.52	17.43	38.54	50.98	74.00	-23.02	Horizontal			
7440.00	32.80	36.34	24.43	39.23	54.34	74.00	-19.66	Horizontal			
9920.00	29.83	38.32	30.75	39.96	58.94	74.00	-15.06	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	24.90	31.52	17.43	38.54	35.31	54.00	-18.69	Vertical			
7440.00	19.74	36.34	24.43	39.23	41.28	54.00	-12.72	Vertical			
9920.00	19.13	38.32	30.75	39.96	48.24	54.00	-5.76	Vertical			
4960.00	29.26	31.52	17.43	38.54	39.67	54.00	-14.33	Horizontal			
7440.00	21.90	36.34	24.43	39.23	43.44	54.00	-10.56	Horizontal			
9920.00	19.06	38.32	30.75	39.96	48.17	54.00	-5.83	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.



Test channel:

Report No.: GTS2024070218F01

■ Unwanted Emissions in Restricted Frequency Bands

Peak value	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				
2310.00	45.46	27.17	4.60	38.52	38.71	74.00	-35.29	Horizontal				
2390.00	48.85	27.27	4.65	38.56	42.21	74.00	-31.79	Horizontal				
2310.00	45.57	27.17	4.60	38.52	38.82	74.00	-35.18	Vertical				
2390.00	50.26	27.27	4.65	38.56	43.62	74.00	-30.38	Vertical				
Average value:												
Frequency	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Polarization				

Lowest channel

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	35.12	27.17	4.60	38.52	28.37	54.00	-25.63	Horizontal
2390.00	36.64	27.27	4.65	38.56	30.00	54.00	-24.00	Horizontal
2310.00	35.22	27.17	4.60	38.52	28.47	54.00	-25.53	Vertical
2390.00	37.18	27.27	4.65	38.56	30.54	54.00	-23.46	Vertical

est channel:	Highest channel
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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	47.47	27.38	4.52	38.59	40.78	74.00	-33.22	Horizontal
2500.00	46.31	27.40	4.49	38.60	39.60	74.00	-34.40	Horizontal
2483.50	48.62	27.38	4.52	38.59	41.93	74.00	-32.07	Vertical
2500.00	47.48	27.40	4.49	38.60	40.77	74.00	-33.23	Vertical

Average value:

Average va	verage 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	36.08	27.38	4.52	38.59	29.39	54.00	-24.61	Horizontal
2500.00	35.97	27.40	4.49	38.60	29.26	54.00	-24.74	Horizontal
2483.50	36.78	27.38	4.52	38.59	30.09	54.00	-23.91	Vertical
2500.00	36.10	27.40	4.49	38.60	29.39	54.00	-24.61	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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