

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 Manufacturer/Factory: 3rd Floor,B building,Jia'an Industrial Building, Liu Xian Third road,No.72 area, Xin'an Street, Baoan District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: PIR Sensor Controller

Model No.: See section 5.1

FCC ID: 2AHST-903XA

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

Date of sample receipt: June 13, 2022

Date of Test: June 14, 2022-July 01, 2022

Date of report issued: July 04, 2022

Test Result : PASS *

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

Authorized Signature:

A red circular stamp with the text "Global United Technology Services Co., Ltd." around the perimeter and "检验检测专用章" (Inspection and Testing Special Seal) in the center. A black ink signature is written over the stamp.

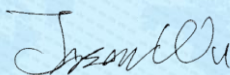
Robinson Luo
Laboratory Manager

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.

2 Version

Version No.	Date	Description
00	July 04, 2022	Original

Prepared By:



Date:

July 04, 2022

Project Engineer

Check By:


Reviewer

Date:

July 04, 2022

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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	N/A
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 uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	PIR Sensor Controller
Model No.:	SR-SV9032A-PIR-V, SR-SV9032A-MW-V, SR-SV9032A-MW-D, SR-SV9032A-PIR-D, SR-SV9032A-V, SR-SV9032A-D, SR-SV9030A-MW-V, SR-SV9030A-PIR-V, SR-SV9030A-MW-D, SR-SV9030A-PIR-D, SR-SV9031A-MW-V, SR-SV9031A-PIR-V, SR-SV9031A-MW-D, SR-SV9031A-PIR-D, SR-SV9031A-V, SR-SV9031A-D, SR-SV9033A-MW-V, SR-SV9033A-PIR-V, SR-SV9033A-MW-D, SR-SV9033A-PIR-D, SR-SV9034A-MW-V, SR-SV9034A-PIR-V, SR-SV9034A-MW-D, SR-SV9034A-PIR-D, SR-SV9034A-V, SR-SV9034A-D, SR-SV9035A-MW-V, SR-SV9035A-PIR-V, SR-SV9035A-MW-D, SR-SV9035A-PIR-D, SR-SV9035A-V, SR-SV9035A-D, SR-SV9036A-MW-V, SR-SV9036A-PIR-V, SR-SV9036A-MW-D, SR-SV9036A-PIR-D, SR-SV9036A-V, SR-SV9036A-D, SR-SV9037A-MW-V, SR-SV9037A-PIR-V, SR-SV9037A-MW-D, SR-SV9037A-PIR-D, SR-SV9037A-V, SR-SV9037A-D, SR-SV903XX-YYY-ZZZ, SR-ZG903XX-YYY-ZZZ, SR-BL903XX-YYY-ZZZ, SR-SB903XX-YYY-ZZZ, SR-DA903XX-YYY-ZZZ, ALBCS MW DHS, ALBCS DHS, RS-BA-3, RS-BA-2, RS-BA-1, IS-BA-2, IS-BA-1, SW-2A-1, SW-4B-1, SW-4H-1, DR-BV-1, CO-BA-2, CO-BA-1, CO-BD-1 ("X", "Y", "Z" indicates the customer code for market purpose, it could be alphanumeric characters or blank.)
Test Model No.:	SR-SV9032A-PIR-V
Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are appearance color and model name for commercial purpose.	
Test sample(s) ID:	GTS202206000131-1
Sample(s) Status:	Engineer sample
Serial No.:	903XA
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	Wire Antenna
Antenna Gain:	0dBi(declare by applicant)
Power Supply:	Input: DC 12-24V Dimming Output : DC 0-10V, Max 20mA

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.
<i>Remark: During the test, the duty cycle >98%, the test voltage was tuned from DC12V to DC24V, and found that the worst case was the DC12V. So the report just shows that condition's data.</i>	

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
Sunricher	DALI+Push+Phase Cut+0/1-10V LED Dimmer DC - DC ADAPTER	SR-2303P(4in1)	N/A
GW	DC POWER SUPPLY	GPR-6030D	EF924756

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. ● IC —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 Industry Canada 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).
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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

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. 02 2020	July. 01 2025
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. 23 2022	June. 22 2023
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 23 2022	June. 22 2023
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 23 2022	June. 22 2023
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 23 2022	June. 22 2023
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 23 2022	June. 22 2023
9	Coaxial Cable	GTS	N/A	GTS211	June. 23 2022	June. 22 2023
10	Coaxial cable	GTS	N/A	GTS210	June. 23 2022	June. 22 2023
11	Coaxial Cable	GTS	N/A	GTS212	June. 23 2022	June. 22 2023
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 23 2022	June. 22 2023
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 23 2022	June. 22 2023
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 23 2022	June. 22 2023
15	Band filter	Amindeon	82346	GTS219	June. 23 2022	June. 22 2023
16	Power Meter	Anritsu	ML2495A	GTS540	June. 23 2022	June. 22 2023
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 23 2022	June. 22 2023
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 23 2022	June. 22 2023
19	Splitter	Agilent	11636B	GTS237	June. 23 2022	June. 22 2023
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 23 2022	June. 22 2023
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 17 2021	Oct. 16 2022
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 17 2021	Oct. 16 2022
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 17 2021	Oct. 16 2022
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 23 2022	June. 22 2023

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. 23 2022	June. 22 2023
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 23 2022	June. 22 2023
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 23 2022	June. 22 2023
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 23 2022	June. 22 2023
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 23 2022	June. 22 2023
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 23 2022	June. 22 2023
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 23 2022	June. 22 2023
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 23 2022	June. 22 2023

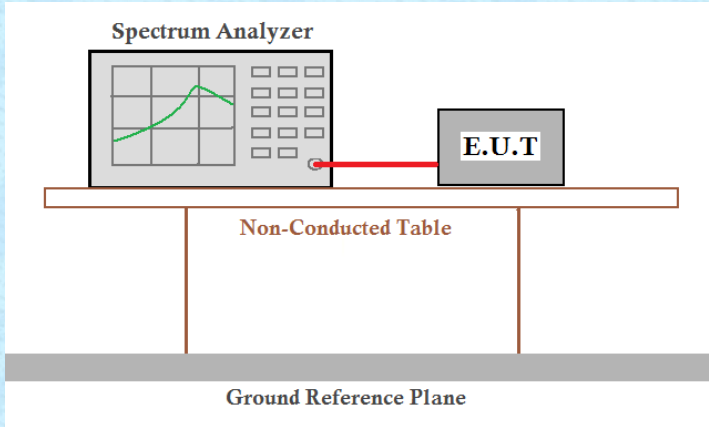
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 23 2022	June. 22 2023
2	Barometer	ChangChun	DYM3	GTS255	June. 23 2022	June. 22 2023

7 Test results and Measurement Data

7.1 Antenna requirement

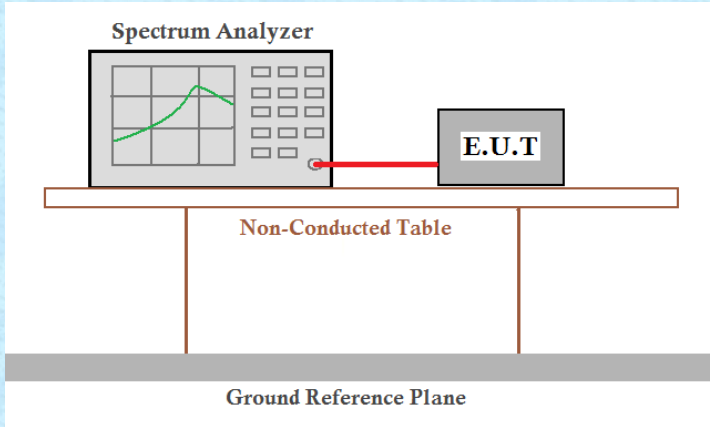
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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:	
<i>The antenna is wire antenna, reference to the appendix II for details</i>	

7.2 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:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

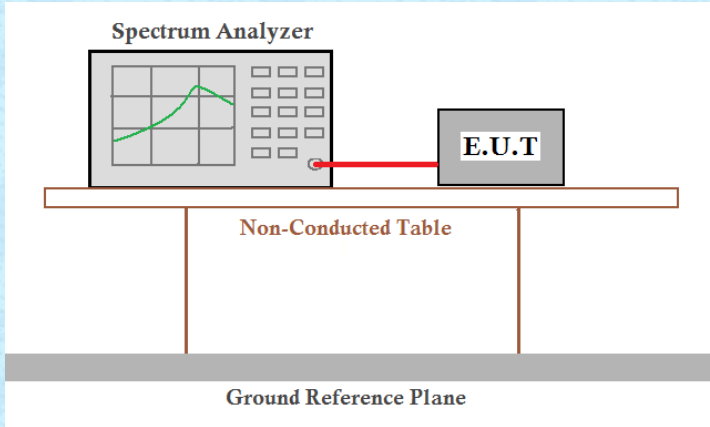
Measurement Data: The detailed test data see Appendix for BLE.

7.3 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 v05r02
Limit:	>500KHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, showing a frequency spectrum on its screen, is connected to an E.U.T. (Equipment Under Test) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a Non-Conducted Table. This table is supported by a Ground Reference Plane, which is represented by a thick grey bar at the bottom of the setup area.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for BLE.

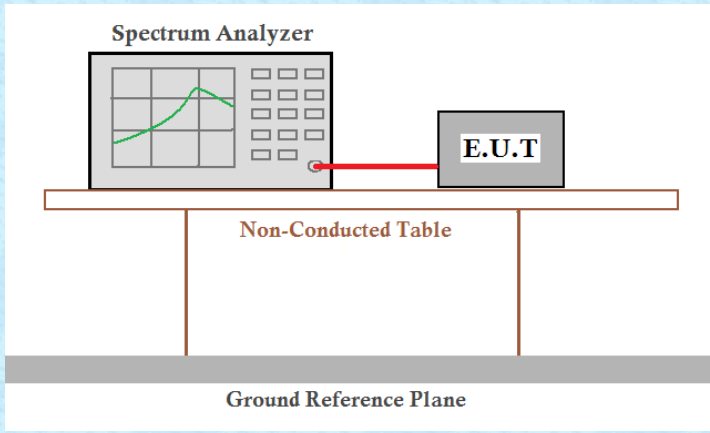
7.4 Power Spectral Density

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:	 The diagram illustrates the test setup. A Spectrum Analyzer, showing a frequency spectrum on its screen, is connected to an Equipment Under Test (E.U.T.) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a Non-Conducted Table. This table is supported by a Ground Reference Plane, which is represented by a thick grey bar at the bottom of the setup area.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for BLE.

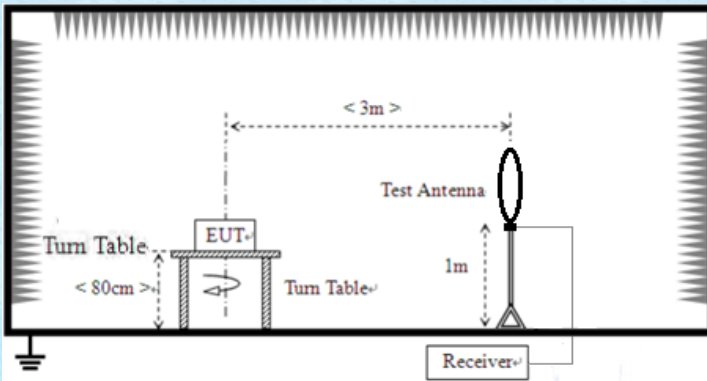
7.5 Spurious Emission in Non-restricted & restricted Bands

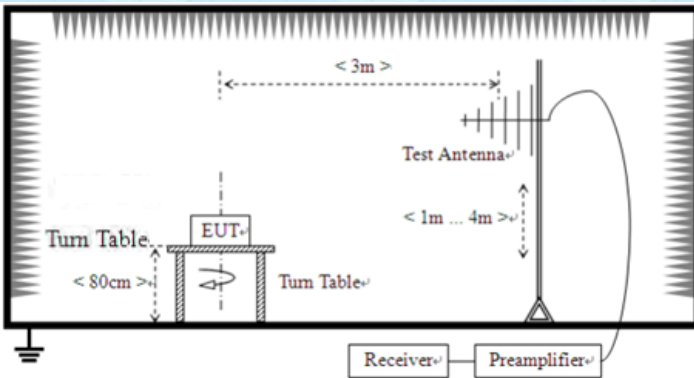
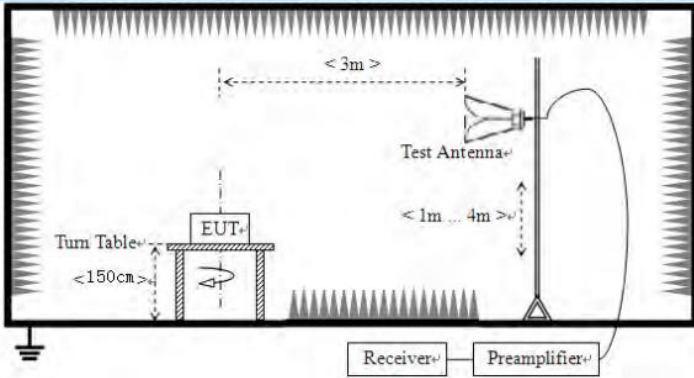
7.5.1 Conducted Emission Method

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 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:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a 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: The detailed test data see Appendix for BLE.

7.5.2 Radiated Emission Method

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	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 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	30m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz				
					

	For radiated emissions from 30MHz to 1GHz  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. 3. 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. 5. 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.

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.:	1012mbar
Test voltage:	DC 12V					
Test results:	Pass					

Measurement data:

Remark:

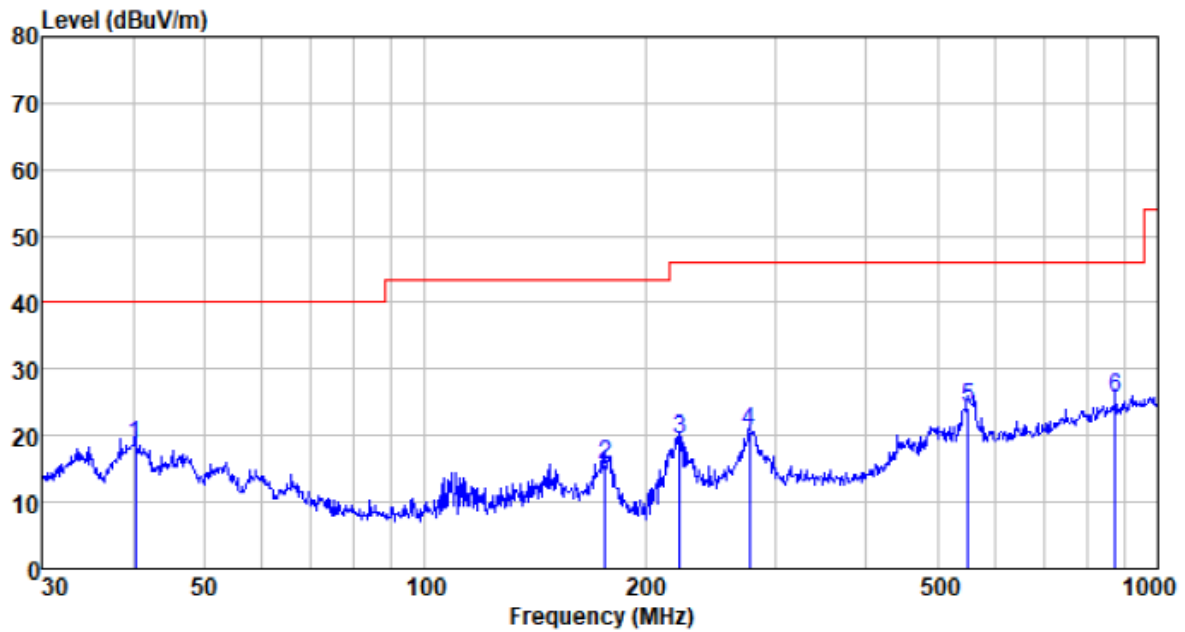
Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ 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.

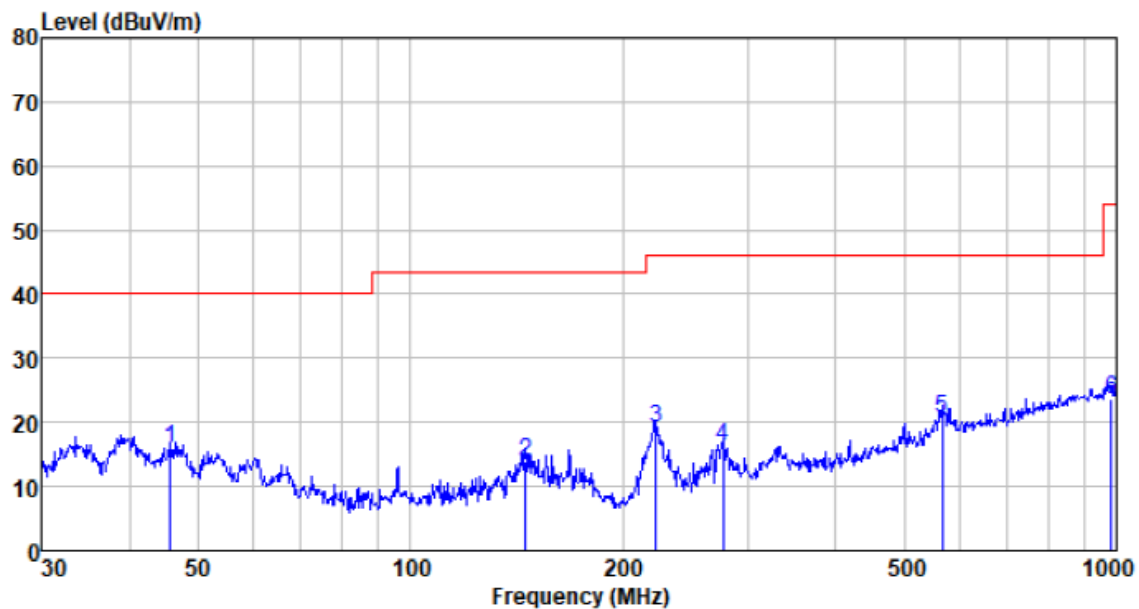
■ Below 1GHz

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



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
40.276	40.48	13.24	0.66	35.68	18.70	40.00	-21.30	QP
176.269	39.57	11.52	1.72	37.22	15.59	43.50	-27.91	QP
222.950	45.74	9.14	1.98	37.35	19.51	46.00	-26.49	QP
277.094	43.92	11.75	2.25	37.40	20.52	46.00	-25.48	QP
550.948	40.12	17.94	3.53	37.53	24.06	46.00	-21.94	QP
875.247	35.79	22.77	4.76	37.60	25.72	46.00	-20.28	QP

Vertical:

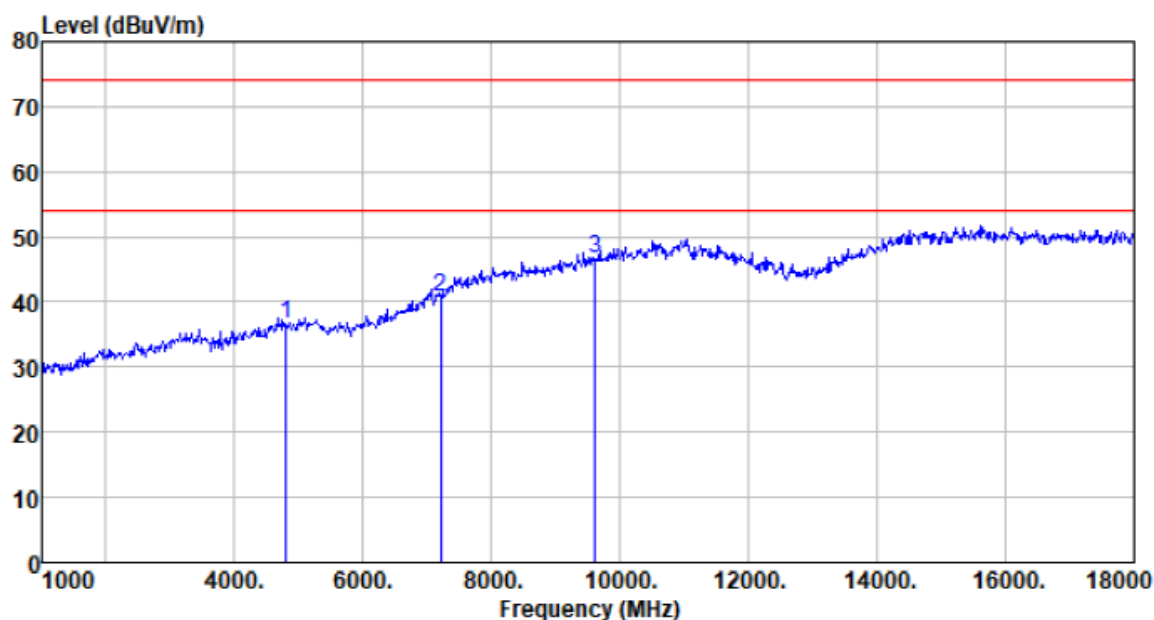


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
45.695	38.16	12.97	0.73	35.97	15.89	40.00	-24.11	QP
145.351	36.87	12.44	1.54	37.05	13.80	43.50	-29.70	QP
222.950	45.30	9.14	1.98	37.35	19.07	46.00	-26.93	QP
277.094	39.74	11.75	2.25	37.40	16.34	46.00	-29.66	QP
566.622	36.22	18.38	3.59	37.53	20.66	46.00	-25.34	QP
982.620	32.03	23.99	5.16	37.52	23.66	54.00	-30.34	QP

■ Above 1GHz

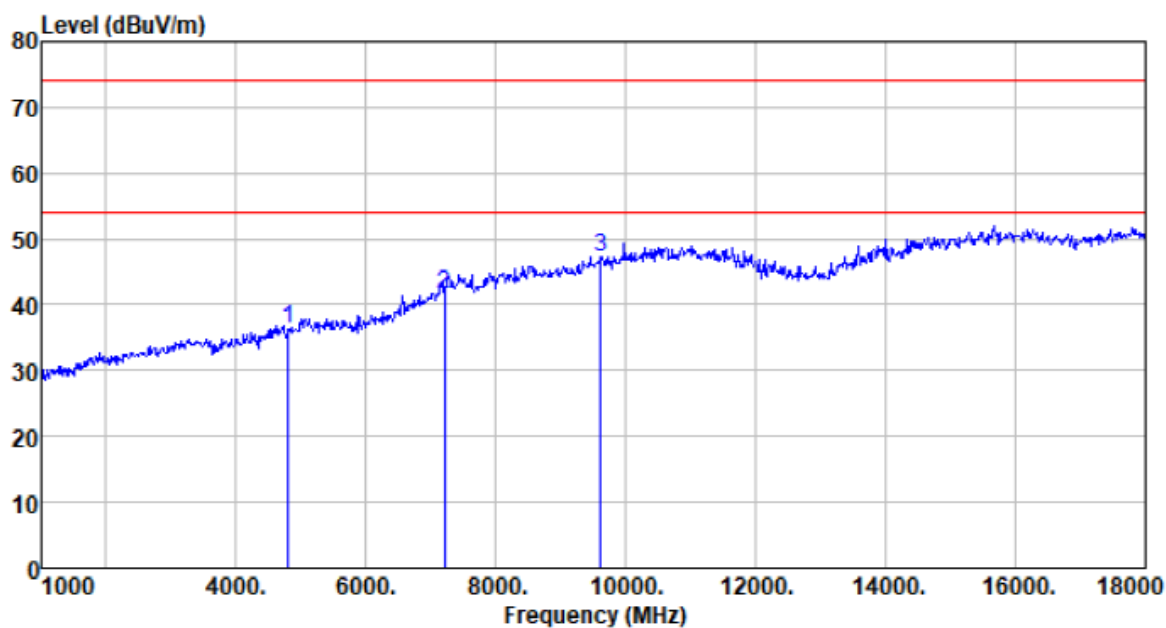
■ Unwanted Emissions in Restricted Frequency Bands

Test channel:	Lowest	Polarization:	Horizontal
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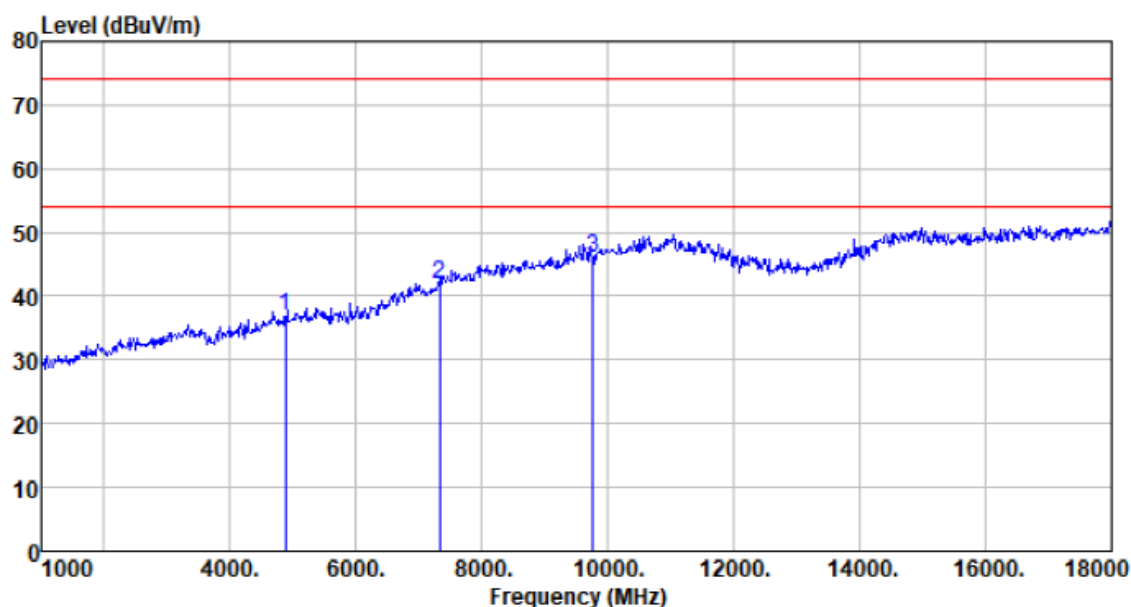
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4804.000	38.38	31.20	4.61	37.70	36.49	74.00	-37.51	Peak
7206.000	36.06	36.16	6.48	37.82	40.88	74.00	-33.12	Peak
9608.000	38.76	37.93	7.97	37.92	46.74	74.00	-27.26	Peak

Test channel:	Lowest	Polarization:	Vertical
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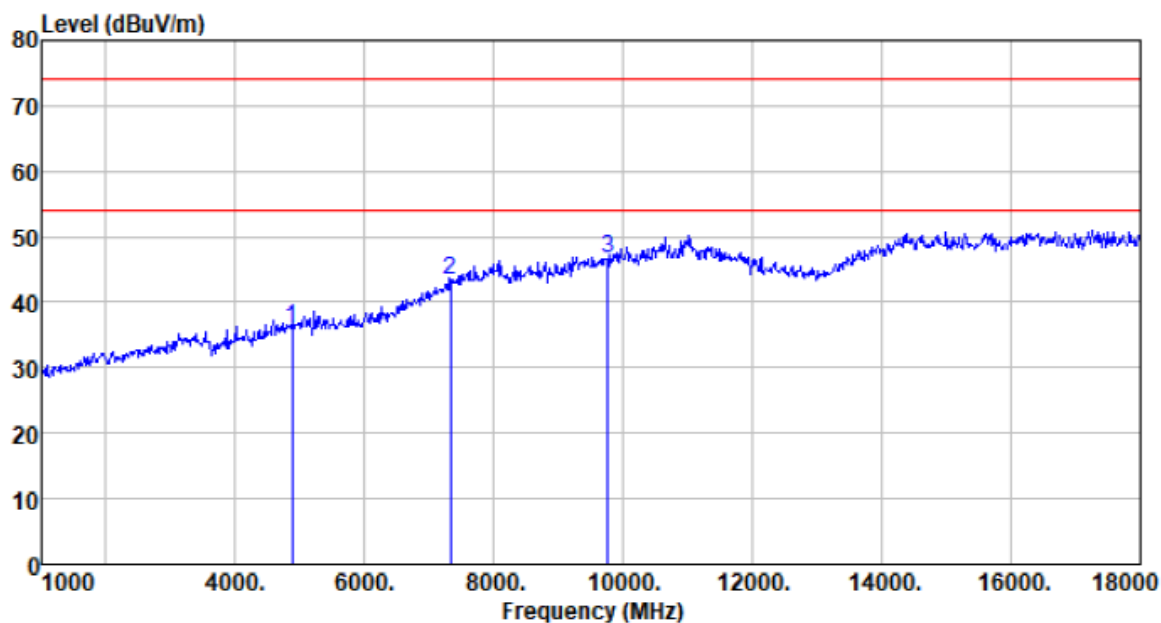
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4804.000	38.21	31.20	4.61	37.70	36.32	74.00	-37.68	Peak
7206.000	36.70	36.16	6.48	37.82	41.52	74.00	-32.48	Peak
9608.000	39.11	37.93	7.97	37.92	47.09	74.00	-26.91	Peak

Test channel:	Middle	Polarization:	Horizontal
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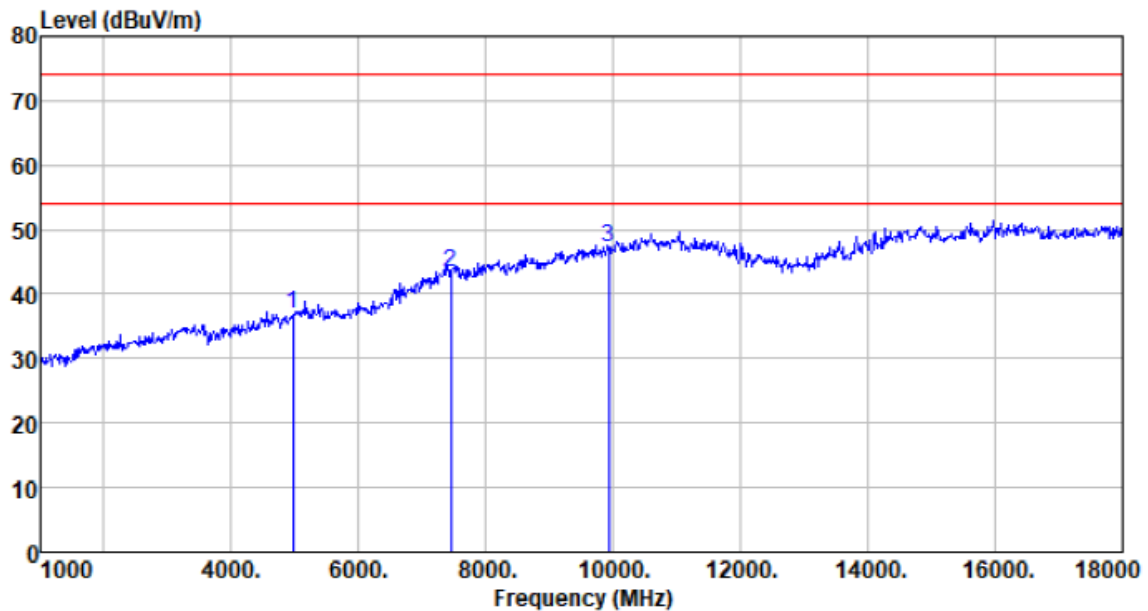


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4880.000	38.41	31.31	4.69	37.62	36.79	74.00	-37.21	Peak
7320.000	36.70	36.43	6.63	37.77	41.99	74.00	-32.01	Peak
9760.000	37.75	38.10	8.03	37.95	45.93	74.00	-28.07	Peak

Test channel:	Middle	Polarization:	Vertical
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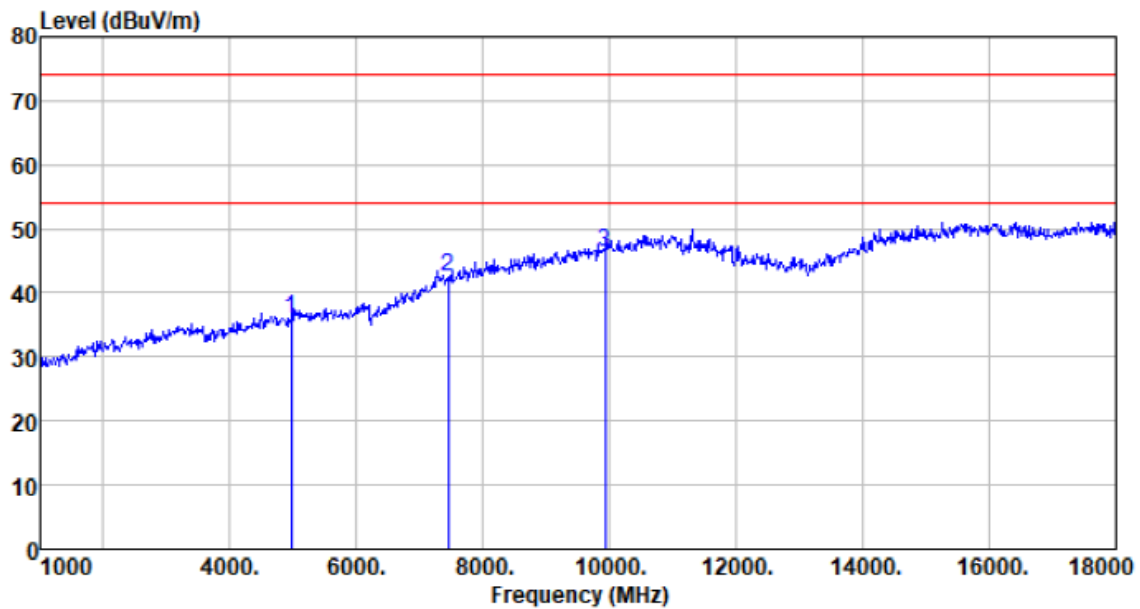


Test channel:	Highest	Polarization:	Horizontal
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4960.000	38.13	31.44	4.79	37.54	36.82	74.00	-37.18	Peak
7440.000	37.75	36.66	6.77	37.72	43.46	74.00	-30.54	Peak
9920.000	38.76	38.30	8.09	37.98	47.17	74.00	-26.83	Peak

Test channel:	Highest	Polarization:	Vertical
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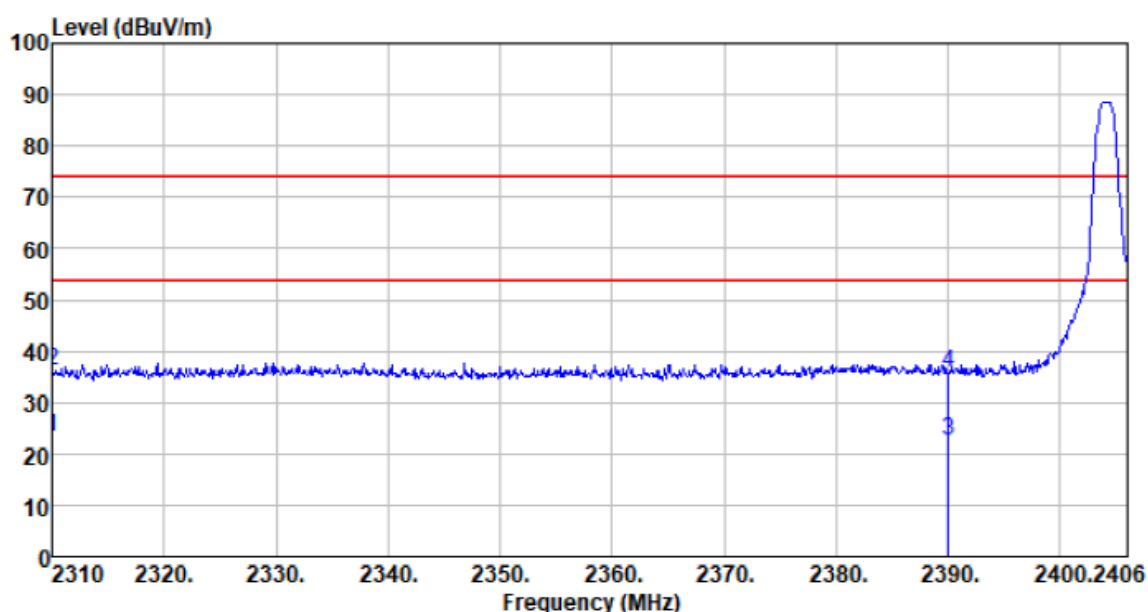
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4960.000	37.23	31.44	4.79	37.54	35.92	74.00	-38.08	Peak
7440.000	36.79	36.66	6.77	37.72	42.50	74.00	-31.50	Peak
9920.000	37.94	38.30	8.09	37.98	46.35	74.00	-27.65	Peak

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.

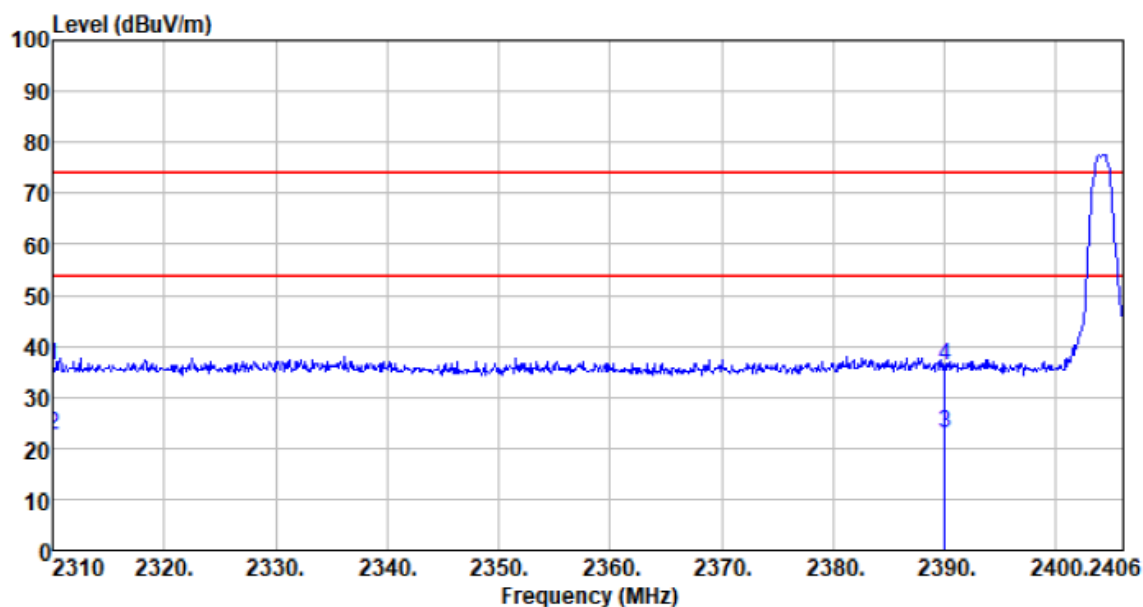
■ Unwanted Emissions in Non-restricted Frequency Bands

Test channel:	Lowest	Polarization:	Horizontal
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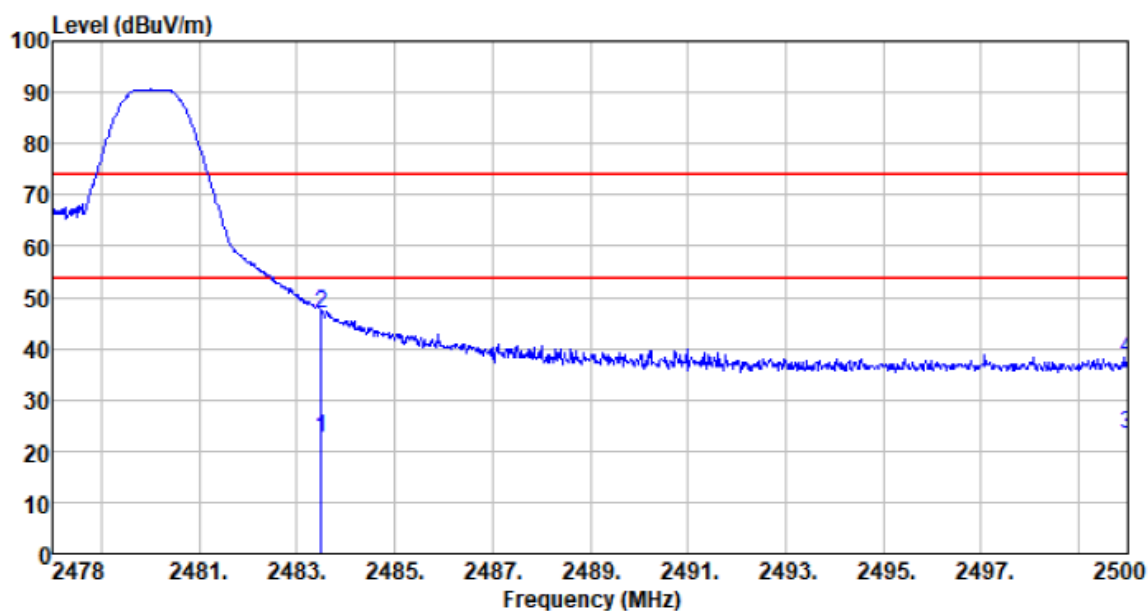
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	31.96	27.14	2.81	38.64	23.27	54.00	-30.73	Average
2310.000	44.68	27.14	2.81	38.64	35.99	74.00	-38.01	Peak
2390.000	31.04	27.37	2.91	38.84	22.48	54.00	-31.52	Average
2390.000	44.20	27.37	2.91	38.84	35.64	74.00	-38.36	Peak

Test channel:	Lowest	Polarization:	Vertical
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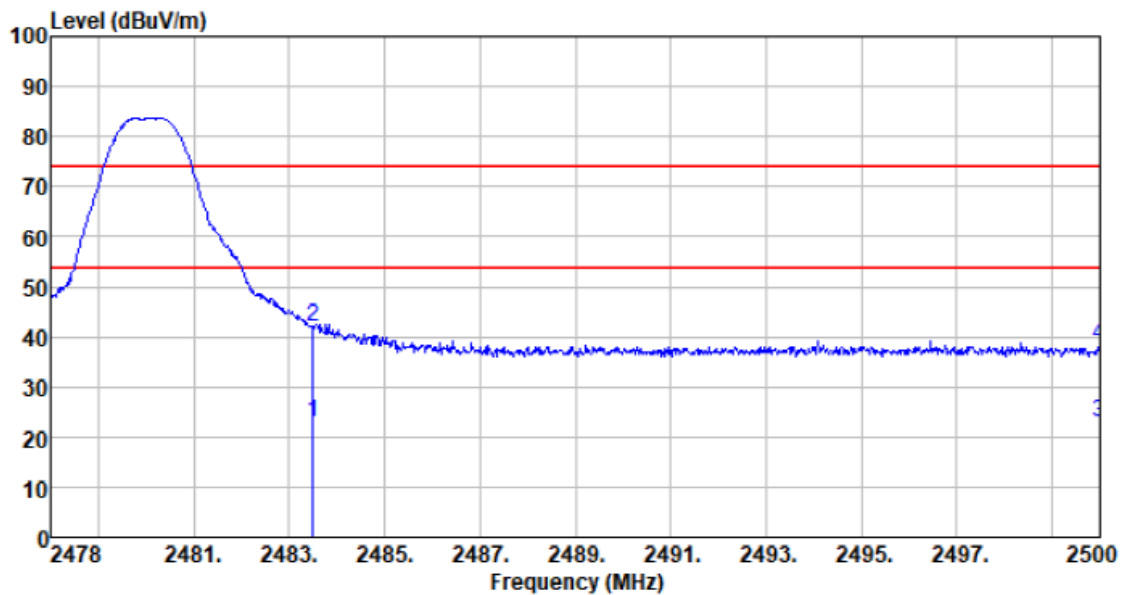
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	44.91	27.14	2.81	38.64	36.22	74.00	-37.78	Peak
2310.000	31.05	27.14	2.81	38.64	22.36	74.00	-51.64	QP
2390.000	31.34	27.37	2.91	38.84	22.78	54.00	-31.22	Average
2390.000	44.75	27.37	2.91	38.84	36.19	74.00	-37.81	Peak

Test channel:	Highest	Polarization:	Horizontal
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2483.500	30.89	27.66	2.99	39.06	22.48	54.00	-31.52	Average
2483.500	55.34	27.66	2.99	39.06	46.93	74.00	-27.07	Peak
2500.000	31.71	27.70	3.01	39.10	23.32	54.00	-30.68	Average
2500.000	46.50	27.70	3.01	39.10	38.11	74.00	-35.89	Peak

Test channel:	Highest	Polarization:	Vertical
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2483.500	31.25	27.66	2.99	39.06	22.84	54.00	-31.16	Average
2483.500	50.65	27.66	2.99	39.06	42.24	74.00	-31.76	Peak
2500.000	31.45	27.70	3.01	39.10	23.06	54.00	-30.94	Average
2500.000	46.59	27.70	3.01	39.10	38.20	74.00	-35.80	Peak

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.
3. “*”, means this data is the too weak instrument of signal is unable to test.

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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