

TEST REPORT

Applicant: HANSHOW TECHNOLOGY CO.,LTD.

Address of Applicant: Building 1(IF podium building and 4F) and Building 5 (7F) in
Jiaxing Photovolta High-tech Park, No. 1288 Kanghe Rd.,
Xiuzhou District,Jiaxing,Zhejiang,China

Manufacturer: HANSHOW TECHNOLOGY CO.,LTD.

Address of Manufacturer: Building 1(IF podium building and 4F) and Building 5 (7F) in
Jiaxing Photovolta High-tech Park, No. 1288 Kanghe Rd.,
Xiuzhou District,Jiaxing,Zhejiang,China

Equipment Under Test (EUT)

Product Name: electronic shelf label

Model No.: Polaris Pro-590Q-N

FCC ID: 2AYMH-P590

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249

Date of sample receipt: April 27, 2026

Date of Test: April 27, 2026

Date of report issued: April 28, 2026

Test Result : PASS *

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

Authorized Signature:



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	April 28, 2026	Original

Tested By:

John. Cai

Date:

April 28, 2026

Test Engineer

Prepared By:

Jason Liu

Date:

April 28, 2026

Project Engineer

Check By:

Robinson Liu

Date:

April 28, 2026

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Remarks:

1. Test according to ANSI C63.10:2020.
2. Pass: The EUT complies with the essential requirements in the standard.
3. N/A: not applicable

4.1 Measurement Uncertainty

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

5 General Information

5.1 General Description of EUT

Product Name:	electronic shelf label
Model No.:	Polaris Pro-590Q-N
Test sample(s) ID:	GTS2026040562-1
Sample(s) Status	Engineered sample
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	157
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Antenna gain:	-1.4dBi(declare by applicant)
Power supply:	DC 3V, 1450mAh for Li-ion battery

Disclaimer statement:

1. Antenna gain information provided by the customer, and the laboratory is not responsible for its authenticity.
2. The information in this section is provided by the applicant or manufacturer, GTS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

The test frequencies are below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

Operation Frequency each of channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
4	2402.0	44	2422.0	84	2442.0	124	2462.0
5	2402.5	45	2422.5	85	2442.5	125	2462.5
6	2403.0	46	2423.0	86	2443.0	126	2463.0
7	2403.5	47	2423.5	87	2443.5	127	2463.5
8	2404.0	48	2424.0	88	2444.0	128	2464.0
9	2404.5	49	2424.5	89	2444.5	129	2464.5
10	2405.0	50	2425.0	90	2445.0	130	2465.0
11	2405.5	51	2425.5	91	2445.5	131	2465.5
12	2406.0	52	2426.0	92	2446.0	132	2466.0
13	2406.5	53	2426.5	93	2446.5	133	2466.5
14	2407.0	54	2427.0	94	2447.0	134	2467.0
15	2407.5	55	2427.5	95	2447.5	135	2467.5
16	2408.0	56	2428.0	96	2448.0	136	2468.0
17	2408.5	57	2428.5	97	2448.5	137	2468.5
18	2409.0	58	2429.0	98	2449.0	138	2469.0
19	2409.5	59	2429.5	99	2449.5	139	2469.5
20	2410.0	60	2430.0	100	2450.0	140	2470.0
21	2410.5	61	2430.5	101	2450.5	141	2470.5
22	2411.0	62	2431.0	102	2451.0	142	2471.0
23	2411.5	63	2431.5	103	2451.5	143	2471.5
24	2412.0	64	2432.0	104	2452.0	144	2472.0
25	2412.5	65	2432.5	105	2452.5	145	2472.5
26	2413.0	66	2433.0	106	2453.0	146	2473.0
27	2413.5	67	2433.5	107	2453.5	147	2473.5
28	2414.0	68	2434.0	108	2454.0	148	2474.0
29	2414.5	69	2434.5	109	2454.5	149	2474.5
30	2415.0	70	2435.0	110	2455.0	150	2475.0
31	2415.5	71	2435.5	111	2455.5	151	2475.5
32	2416.0	72	2436.0	112	2456.0	152	2476.0
33	2416.5	73	2436.5	113	2456.5	153	2476.5
34	2417.0	74	2437.0	114	2457.0	154	2477.0
35	2417.5	75	2437.5	115	2457.5	155	2477.5
36	2418.0	76	2438.0	116	2458.0	156	2478.0
37	2418.5	77	2438.5	117	2458.5	157	2478.5
38	2419.0	78	2439.0	118	2459.0	158	2479.0
39	2419.5	79	2439.5	119	2459.5	159	2479.5
40	2420.0	80	2440.0	120	2460.0	160	2480.0
41	2420.5	81	2440.5	121	2460.5		
42	2421.0	82	2441.0	122	2461.0		
43	2421.5	83	2441.5	123	2461.5		

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: New battery is used during all test.	

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report (Only show the worst case:Y axis) and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	96.89	97.04	96.79

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	Special test command 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	Apr. 10, 2026	Apr. 09, 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	Apr. 10, 2026	Apr. 09, 2027
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Apr. 11, 2026	Apr. 10, 2027
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 11, 2026	Apr. 10, 2027
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Jul. 11, 2025	Jul 10, 2026
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.22, 2025	Nov.21, 2026
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 10, 2026	Apr. 09, 2027
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 10, 2026	Apr. 09, 2027
10	Horn Antenna (18GH-40GHz)	Schwarzbeck	BBHA 9170	GTS691	Apr. 11, 2026	Apr. 10, 2027
11	FSV-Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	Mar. 10, 2026	Mar. 09, 2027
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 10, 2026	Apr. 09, 2027
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 24, 2025	Nov. 23, 2026
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 10, 2026	Apr. 09, 2027
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 13, 2026	Apr. 12, 2027
16	RE cable 1	GTS	N/A	GTS675	Jul. 11, 2025	Jul. 10, 2026
17	RE cable 2	GTS	N/A	GTS676	Jul. 11, 2025	Jul. 10, 2026
18	RE cable 3	GTS	N/A	GTS677	Jul. 11, 2025	Jul. 10, 2026
19	RE cable 4	GTS	N/A	GTS678	Jul. 11, 2025	Jul. 10, 2026
20	RE cable 5	GTS	N/A	GTS679	Jul. 11, 2025	Jul. 10, 2026
21	RE cable 6	GTS	N/A	GTS680	Jul. 11, 2025	Jul. 10, 2026
22	RE cable 7	GTS	N/A	GTS681	Jul. 11, 2025	Jul. 10, 2026
23	RE cable 8	GTS	N/A	GTS682	Jul. 11, 2025	Jul. 10, 2026
24	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A

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	Apr. 10, 2026	Apr. 09, 2027
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 11, 2026	Apr. 10, 2027
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	Apr. 10, 2026	Apr. 09, 2027
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	Apr. 10, 2026	Apr. 09, 2027
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	Apr. 10, 2026	Apr. 09, 2027
6	Wideband Power Meter	Keysight	N1924A	GTS673	Apr. 11, 2026	Apr. 10, 2027
7	USB RF Power Sensor	DARE	RPR3006W	GTS569	Apr. 10, 2026	Apr. 09, 2027
8	RF Switch Box	Shongyi	RFSW3003328	GTS571	Apr. 10, 2026	Apr. 09, 2027
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	Apr. 10, 2026	Apr. 09, 2027
10	Thermo meter	JINCHUANG	GSP-8A	GTS641	Apr. 14, 2026	Apr. 13, 2027
11	EXA Signal Analyzer	Keysight	N9010B	MY60241168	Nov. 01, 2025	Oct. 31, 2026

General used equipment:

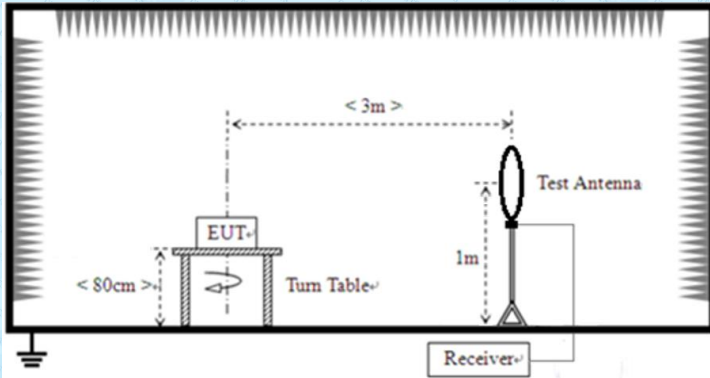
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Jul. 16, 2025	Jul. 15, 2026

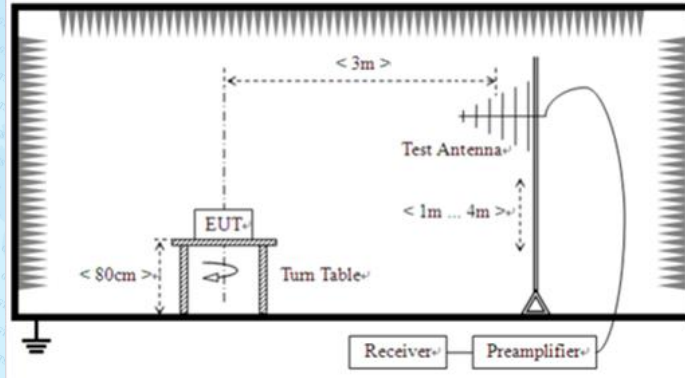
7 Test results and Measurement Data

7.1 Antenna requirement

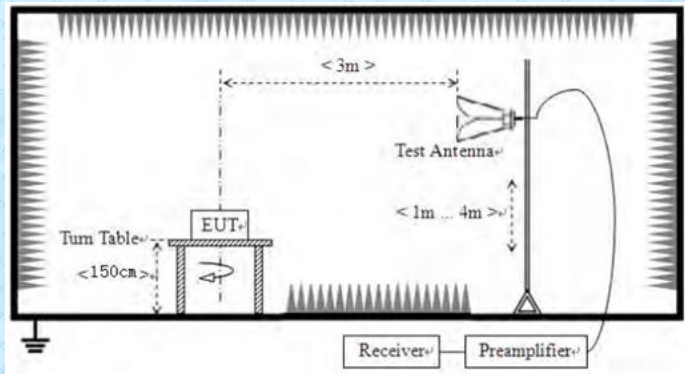
Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
EUT Antenna: The antenna is PCB antenna, reference to the appendix II for details.	

7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2020				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz-150kHz	Quasi-peak	200Hz	300Hz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	10kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit: (Field strength of the fundamental signal)	Frequency		Limit (dBuV/m @3m)		Remark
	2400MHz-2483.5MHz		94.00		Average Value
			114.00		Peak Value
Limit: (Spurious Emissions)	Frequency		Limit (uV/m)		Remark
	0.009MHz-0.490MHz		2400/F(kHz) @300m		Quasi-peak Value
	0.490MHz-1.705MHz		24000/F(kHz) @30m		Quasi-peak Value
	1.705MHz-30.0MHz		30 @30m		Quasi-peak Value
	30MHz-88MHz		100 @3m		Quasi-peak Value
	88MHz-216MHz		150 @3m		Quasi-peak Value
	216MHz-960MHz		200 @3m		Quasi-peak Value
	960MHz-1GHz		500 @3m		Quasi-peak Value
	Above 1GHz		500 @3m		Average Value
5000 @3m			Peak Value		
Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test setup:	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 1GHz and 1.5 meters for above 1GHz) 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
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Test voltage:

DC 3V

Test results:

Pass

Measurement data:

7.2.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	103.86	27.43	2.93	38.88	95.34	114.00	-18.66	Vertical
2402.00	94.77	27.43	2.93	38.88	86.25	114.00	-27.75	Horizontal
2441.00	105.51	27.55	2.96	38.98	97.04	114.00	-16.96	Vertical
2441.00	98.86	27.55	2.96	38.98	90.39	114.00	-23.61	Horizontal
2480.00	100.32	27.64	2.99	39.05	91.90	114.00	-22.10	Vertical
2480.00	92.04	27.64	2.99	39.05	83.62	114.00	-30.38	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	87.86	27.43	2.93	38.88	79.34	94.00	-14.66	Vertical
2402.00	84.19	27.43	2.93	38.88	75.67	94.00	-18.33	Horizontal
2441.00	92.65	27.55	2.96	38.98	84.18	94.00	-9.82	Vertical
2441.00	87.40	27.55	2.96	38.98	78.93	94.00	-15.07	Horizontal
2480.00	92.28	27.64	2.99	39.05	83.86	94.00	-10.14	Vertical
2480.00	89.31	27.64	2.99	39.05	80.89	94.00	-13.11	Horizontal

Note: For fundamental frequency , RBW>20dB BW, VBW>=RBW, PK detector for PK value, RMS detector for AV value

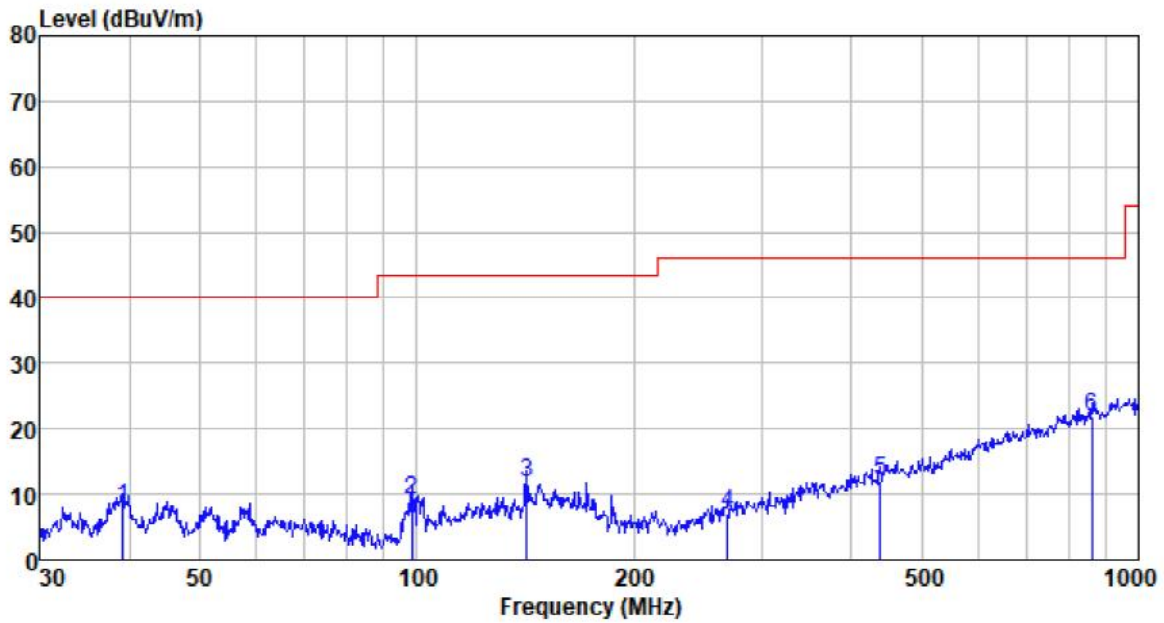
7.2.2 Spurious emissions

■ 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.

■ Below 1GHz

Pre-scan all test modes, found worst case at 2441MHz, and so only show the test result of it
Horizontal

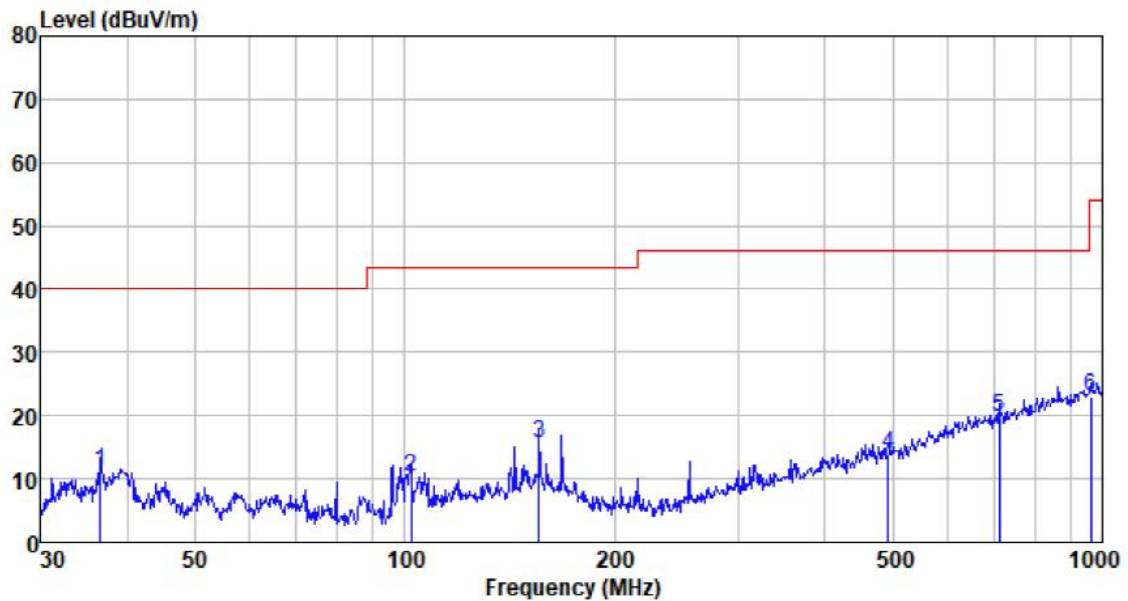


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
39.162	26.05	14.23	1.28	33.55	8.01	40.00	-31.99	QP
98.487	31.60	9.35	1.92	33.60	9.27	43.50	-34.23	QP
141.826	28.82	13.98	2.38	33.50	11.68	43.50	-31.82	QP
269.428	25.68	11.37	3.35	33.25	7.15	46.00	-38.85	QP
438.655	25.14	15.67	4.32	32.98	12.15	46.00	-33.85	QP
860.035	24.73	22.80	6.16	31.84	21.85	46.00	-24.15	QP

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
36.637	29.91	13.53	1.27	33.56	11.15	40.00	-28.85	QP
102.001	32.42	9.60	1.98	33.59	10.41	43.50	-33.09	QP
155.910	31.82	14.81	2.49	33.47	15.65	43.50	-27.85	QP
492.469	25.35	16.75	4.55	32.91	13.74	46.00	-32.26	QP
711.674	25.89	20.80	5.59	32.37	19.91	46.00	-26.09	QP
962.162	24.14	23.60	6.51	31.29	22.96	54.00	-31.04	QP

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

■ Above 1GHz

Test channel:	Lowest 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
4804.00	36.10	31.22	4.63	37.68	34.27	74.00	-39.73	Vertical
7206.00	31.03	36.25	6.52	37.81	35.99	74.00	-38.01	Vertical
9608.00	30.76	37.97	7.98	37.93	38.78	74.00	-35.22	Vertical
4804.00	40.14	31.22	4.63	37.68	38.31	74.00	-35.69	Horizontal
7206.00	32.68	36.25	6.52	37.81	37.64	74.00	-36.36	Horizontal
9608.00	30.07	37.97	7.98	37.93	38.09	74.00	-35.91	Horizontal

Average 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	25.15	31.22	4.63	37.68	23.32	54.00	-30.68	Vertical
7206.00	19.86	36.25	6.52	37.81	24.82	54.00	-29.18	Vertical
9608.00	19.01	37.97	7.98	37.93	27.03	54.00	-26.97	Vertical
4804.00	29.24	31.22	4.63	37.68	27.41	54.00	-26.59	Horizontal
7206.00	21.95	36.25	6.52	37.81	26.91	54.00	-27.09	Horizontal
9608.00	18.64	37.97	7.98	37.93	26.66	54.00	-27.34	Horizontal

Test channel:	Middle
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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
4882.00	36.87	31.33	4.69	37.62	35.27	74.00	-38.73	Vertical
7323.00	31.54	36.43	6.63	37.77	36.83	74.00	-37.17	Vertical
9764.00	31.21	38.10	8.03	37.95	39.39	74.00	-34.61	Vertical
4882.00	41.07	31.33	4.69	37.62	39.47	74.00	-34.53	Horizontal
7323.00	33.26	36.43	6.63	37.77	38.55	74.00	-35.45	Horizontal
9764.00	30.60	38.10	8.03	37.95	38.78	74.00	-35.22	Horizontal

Average 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
4882.00	25.78	31.33	4.69	37.62	24.18	54.00	-29.82	Vertical
7323.00	20.29	36.43	6.63	37.77	25.58	54.00	-28.42	Vertical
9764.00	19.39	38.10	8.03	37.95	27.57	54.00	-26.43	Vertical
4882.00	29.96	31.33	4.69	37.62	28.36	54.00	-25.64	Horizontal
7323.00	22.43	36.43	6.63	37.77	27.72	54.00	-26.28	Horizontal
9764.00	19.09	38.10	8.03	37.95	27.27	54.00	-26.73	Horizontal

Test channel:	Highest
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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
4960.00	35.38	31.41	4.77	37.56	34.00	74.00	-40.00	Vertical
7440.00	30.55	36.62	6.73	37.73	36.17	74.00	-37.83	Vertical
9920.00	30.33	38.27	8.08	37.98	38.70	74.00	-35.30	Vertical
4960.00	39.27	31.41	4.77	37.56	37.89	74.00	-36.11	Horizontal
7440.00	32.14	36.62	6.73	37.73	37.76	74.00	-36.24	Horizontal
9920.00	29.57	38.27	8.08	37.98	37.94	74.00	-36.06	Horizontal

Average 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	24.58	31.41	4.77	37.56	23.20	54.00	-30.80	Vertical
7440.00	19.47	36.62	6.73	37.73	25.09	54.00	-28.91	Vertical
9920.00	18.67	38.27	8.08	37.98	27.04	54.00	-26.96	Vertical
4960.00	28.60	31.41	4.77	37.56	27.22	54.00	-26.78	Horizontal
7440.00	21.52	36.62	6.73	37.73	27.14	54.00	-26.86	Horizontal
9920.00	18.24	38.27	8.08	37.98	26.61	54.00	-27.39	Horizontal

Remarks:

1. Final Level(dBuV/m)=Reading level(dBuV)+Antenna Factor(dB/m)+Cable Loss(dB)-Preamp Factor(dB)
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. For above 18GHz, no emission found.
4. If the average limit is met when using a Peak detector, the EUT shall be deemed to meet both peak and average limits. And measurement with the average detector is unnecessary.

7.2.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

Test channel:	Lowest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	57.02	27.14	2.81	38.64	48.33	74.00	-25.67	Horizontal
2390.00	62.83	27.37	2.91	38.84	54.27	74.00	-19.73	Horizontal
2400.00	64.70	27.41	2.92	38.86	56.17	74.00	-17.83	Horizontal
2310.00	58.91	27.14	2.81	38.64	50.22	74.00	-23.78	Vertical
2390.00	65.38	27.37	2.91	38.84	56.82	74.00	-17.18	Vertical
2400.00	67.76	27.41	2.92	38.86	59.23	74.00	-14.77	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	44.37	27.14	2.81	38.64	35.68	54.00	-18.32	Horizontal
2390.00	46.45	27.37	2.91	38.84	37.89	54.00	-16.11	Horizontal
2400.00	49.82	27.41	2.92	38.86	41.29	54.00	-12.71	Horizontal
2310.00	45.32	27.14	2.81	38.64	36.63	54.00	-17.37	Vertical
2390.00	48.44	27.37	2.91	38.84	39.88	54.00	-14.12	Vertical
2400.00	48.93	27.41	2.92	38.86	40.40	54.00	-13.60	Vertical

Test channel:	Highest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	60.81	27.82	2.99	39.05	52.57	74.00	-21.43	Horizontal
2500.00	57.28	27.70	3.01	39.10	48.89	74.00	-25.11	Horizontal
2483.50	64.01	27.82	2.99	39.05	55.77	74.00	-18.23	Vertical
2500.00	59.63	27.70	3.01	39.10	51.24	74.00	-22.76	Vertical

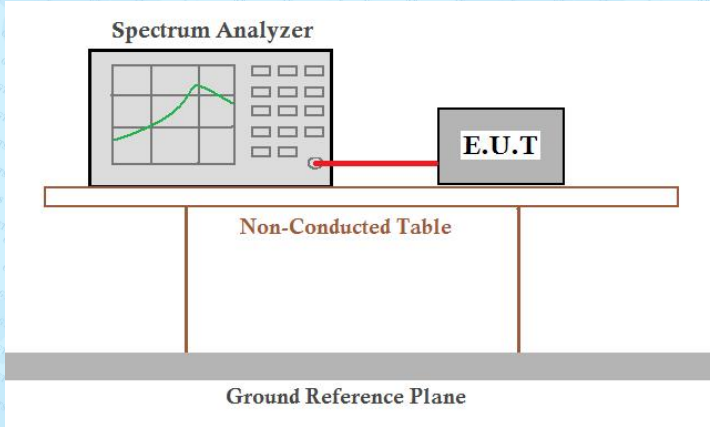
Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	45.37	27.82	2.99	39.05	37.13	54.00	-16.87	Horizontal
2500.00	43.35	27.70	3.01	39.10	34.96	54.00	-19.04	Horizontal
2483.50	42.19	27.82	2.99	39.05	33.95	54.00	-20.05	Vertical
2500.00	44.45	27.70	3.01	39.10	36.06	54.00	-17.94	Vertical

Remark:

- Final Level(dBuV/m)=Reading level(dBuV)+Antenna Factor(dB/m)+Cable Loss(dB)-Preamplifier Factor(dB)
- For above 18GHz, no emission found

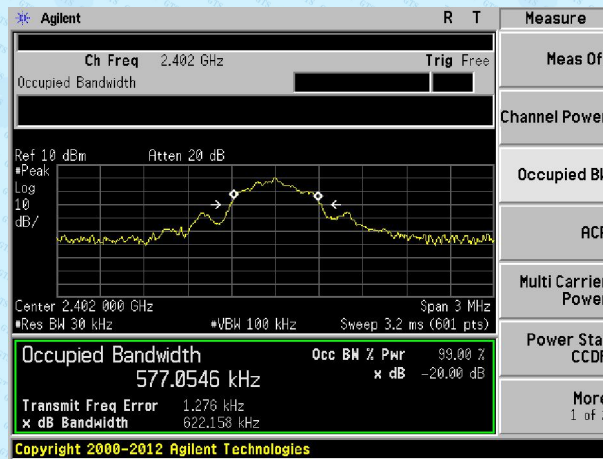
7.3 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10:2020
Limit:	Operation Frequency range 2400MHz~2483.5MHz
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. The setup is on a Non-Conducted Table, which is placed on 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

Test channel	20dB bandwidth(MHz)	Result
Lowest	0.5770546	Pass
Middle	0.5787154	Pass
Highest	0.5832372	Pass

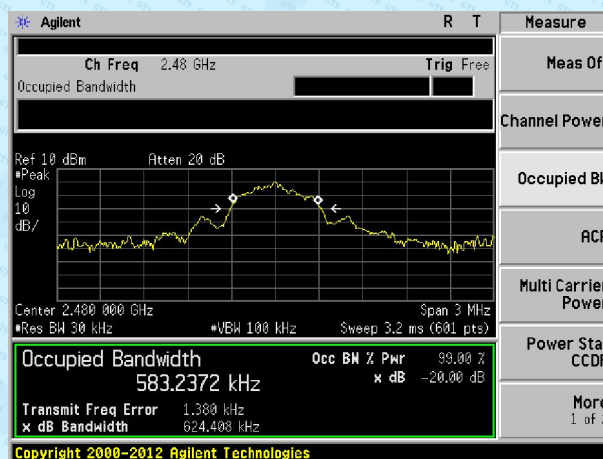
Test plot as follows:



Lowest channel



Middle channel



Highest channel

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----