



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUCR250300020901

Rev.: 01

Page: 1 of 17

TEST REPORT

Application No: SUCR2503000209TL
Applicant: Gosuncn Technology Group Co., Ltd.
Address of Applicant: 6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.
Manufacturer: Gosuncn Technology Group Co., Ltd.
Address of Manufacturer: 6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.
EUT Description: Tracker
Model No.: GT117U
Trade Mark: Gosuncn
FCC ID: 2APNR-GT117U
Standard(s): FCC 47 CFR Part 15, Subpart B
Date of Receipt: March 17, 2025
Date of Test: April 11, 2025
Date of Issue: April 19, 2025

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Nature Shen

Prepared by: Nature Shen/ Project Manager

Cloud Peng

Approved by: Cloud Peng/ Technical Manager

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Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		April 19, 2025		Original

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1 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (30MHz-1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower

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2 General Information

Product Name:	Tracker		
Model No. (EUT):	GT117U		
Trade Mark:	Gosuncn		
Hardware Version:	GT117_HW_V1.0		
Software Version:	BG95M1LAR02A04		
IMEI:	862094066418435		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	LTE Cat-M1 Band 2	1850~1910	1930~1990
	LTE Cat-M1 Band 4	1710~1755	2110~2155
	LTE Cat-M1 Band 5	824~849	869~894
	LTE Cat-M1 Band 12	699~716	729~746
	LTE Cat-M1 Band 13	777~787	746~756
	LTE Cat-M1 Band 25	1850~1915	1930~1995
	LTE Cat-M1 Band 26 (814 to 824 MHz)	814~824	859~869
	LTE Cat-M1 Band 26 (824 to 849 MHz)	824~849	869~894
	LTE Cat-M1 Band 66	1710~1780	2110~2200
	Bluetooth	2402~2480	2402~2480
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2.1 Description of Support Units

None

2.2 Test Location

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	King-p Li

2.3 Test Facility

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

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

2.4 Deviation from Standards

None

2.5 Abnormalities from Standard Conditions

None

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3 Emission Test Results

3.1 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	30MHz to 1GHz		
Measurement Distance:	3m		
Limit:	Frequency Range (MHz)	Limit(dBμV/m)	Detector
	30MHz -88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1000MHz	54.0	Quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz		

3.1.1 E.U.T. Operation

Temperature:	22~23°C
Humidity:	44~46% RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: DC(12V)+GNSS(RX)+BT(Idle)+CAT M1 Band 5(RX) Low b: DC(12V)+GNSS(RX)+BT(Idle)+CAT M1 Band 12(RX) Mid c: DC(12V)+GNSS(RX)+BT(Idle)+CAT M1 Band 13(RX) High d: DC(12V)+GNSS(RX)+BT(Idle)+CAT M1 Band 26(RX) Low
The worst case for final test:	a: DC(12V)+GNSS(RX)+BT(Idle)+CAT M1 Band 5(RX) Low

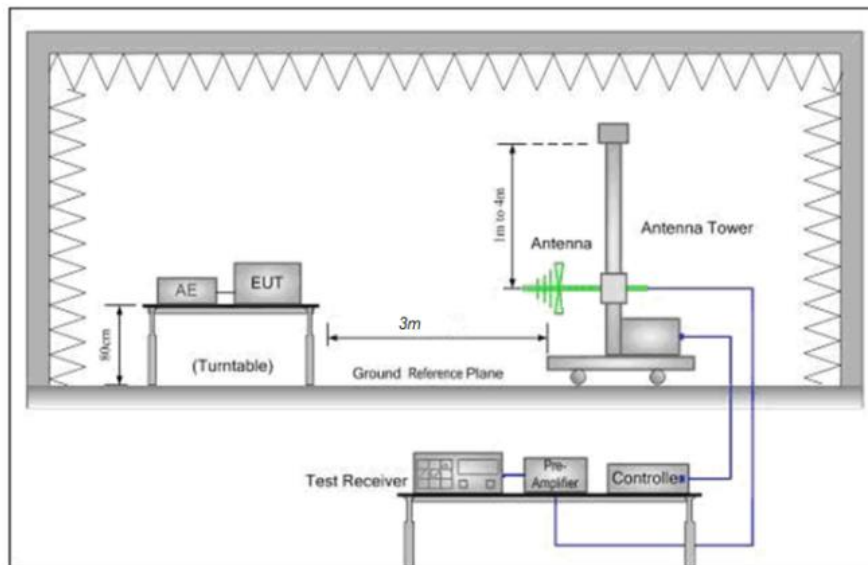
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3.1.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.



3.1.3 Measurement Data

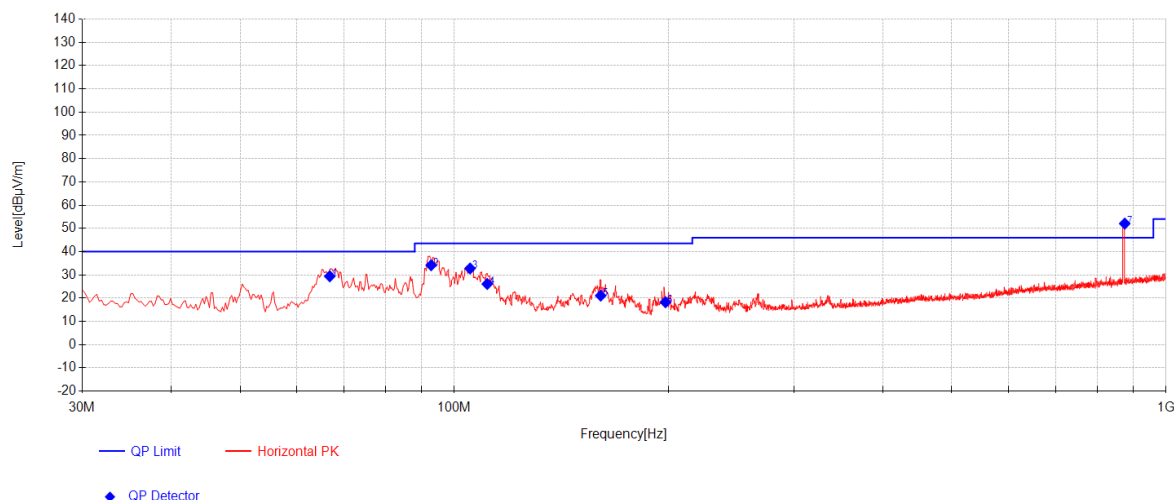
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.

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Final Test Mode:	Mode a	Polarization:	Horizontal
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Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	66.8431	45.73	17.13	-33.46	29.40	40.00	10.60	217	25	Horizontal
2	92.7887	52.73	14.66	-33.23	34.16	43.50	9.34	197	3	Horizontal
3	105.2337	50.34	15.46	-33.05	32.75	43.50	10.75	189	17	Horizontal
4	111.2552	43.43	15.65	-32.98	26.10	43.50	17.40	193	17	Horizontal
5	160.5637	34.69	18.94	-32.55	21.08	43.50	22.42	117	360	Horizontal
6	198.0278	35.27	15.26	-32.27	18.26	43.50	25.24	189	55	Horizontal
7	874.87	53.14	27.59	-28.68	52.05	-	-	224	313	Horizontal

Remark:

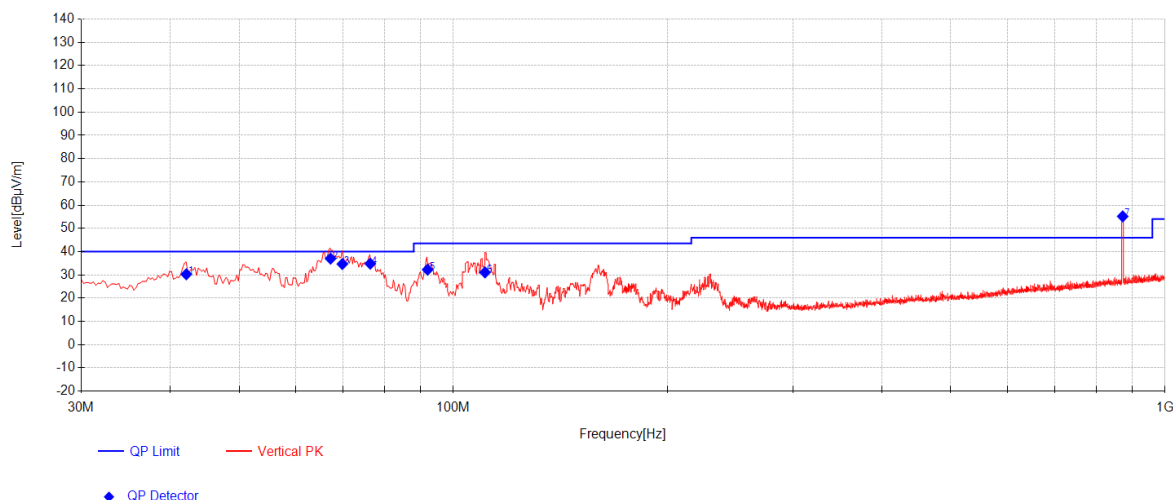
- #7 30M-1G is system simulator signal which can be ignored.
- The Quasi-Peak measurements were performed on the EUT.
- Value = Reading + AF + Factor:
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier (dB)
 Margin = Limit[dBμV/m] -Value[dBμV/m]

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Final Test Mode:	Mode a	Polarization:	Vertical
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Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.1536	45.36	18.71	-33.82	30.25	40.00	9.75	132	59	Vertical
2	67.2205	53.38	17.07	-33.46	36.99	40.00	3.01	265	114	Vertical
3	69.8412	51.80	16.29	-33.42	34.67	40.00	5.33	254	75	Vertical
4	76.4351	52.93	15.26	-33.37	34.82	40.00	5.18	185	116	Vertical
5	92.0309	50.91	14.58	-33.24	32.25	43.50	11.25	254	79	Vertical
6	110.8103	48.45	15.60	-32.98	31.07	43.50	12.43	142	56	Vertical
7	871.96	56.42	27.42	-28.68	55.16	-	-	116	302	Vertical

Remark:

- #7 30M-1G is system simulator signal which can be ignored.
- The Quasi-Peak measurements were performed on the EUT.
- Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBμV/m] - Value[dBμV/m]

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3.2 Radiated Emissions (above 1GHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	Above 1GHz		
Measurement Distance:	3m		
Limit:	Frequency (MHz)	Limit (dBμV/m)	Detector
	Above 1GHz	74	Peak
		54	Average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower.		

3.2.1 E.U.T. Operation

Temperature:	22~23°C
Humidity:	44~46% RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: DC(12V)+GNSS(RX)+BT(Idle)+CAT M1 Band 5(RX) Low b: DC(12V)+GNSS(RX)+BT(Idle)+CAT M1 Band 12(RX) Mid c: DC(12V)+GNSS(RX)+BT(Idle)+CAT M1 Band 13(RX) High d: DC(12V)+GNSS(RX)+BT(Idle)+CAT M1 Band 26(RX) Low
The worst case for final test:	a: DC(12V)+GNSS(RX)+BT(Idle)+CAT M1 Band 5(RX) Low

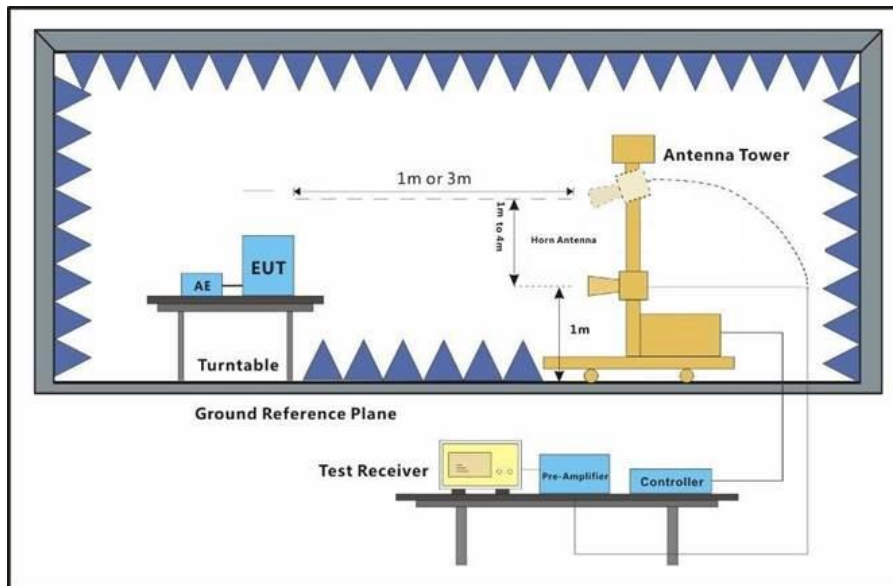
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3.2.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation
(Distance from antenna to EUT is 1m for measurements >18GHz).
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \log(3/1) = 9.54$ dB.



3.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X, Y, Z were measured by EUT, but only the worst data had been displayed.

Scan from 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only below points had been displayed.

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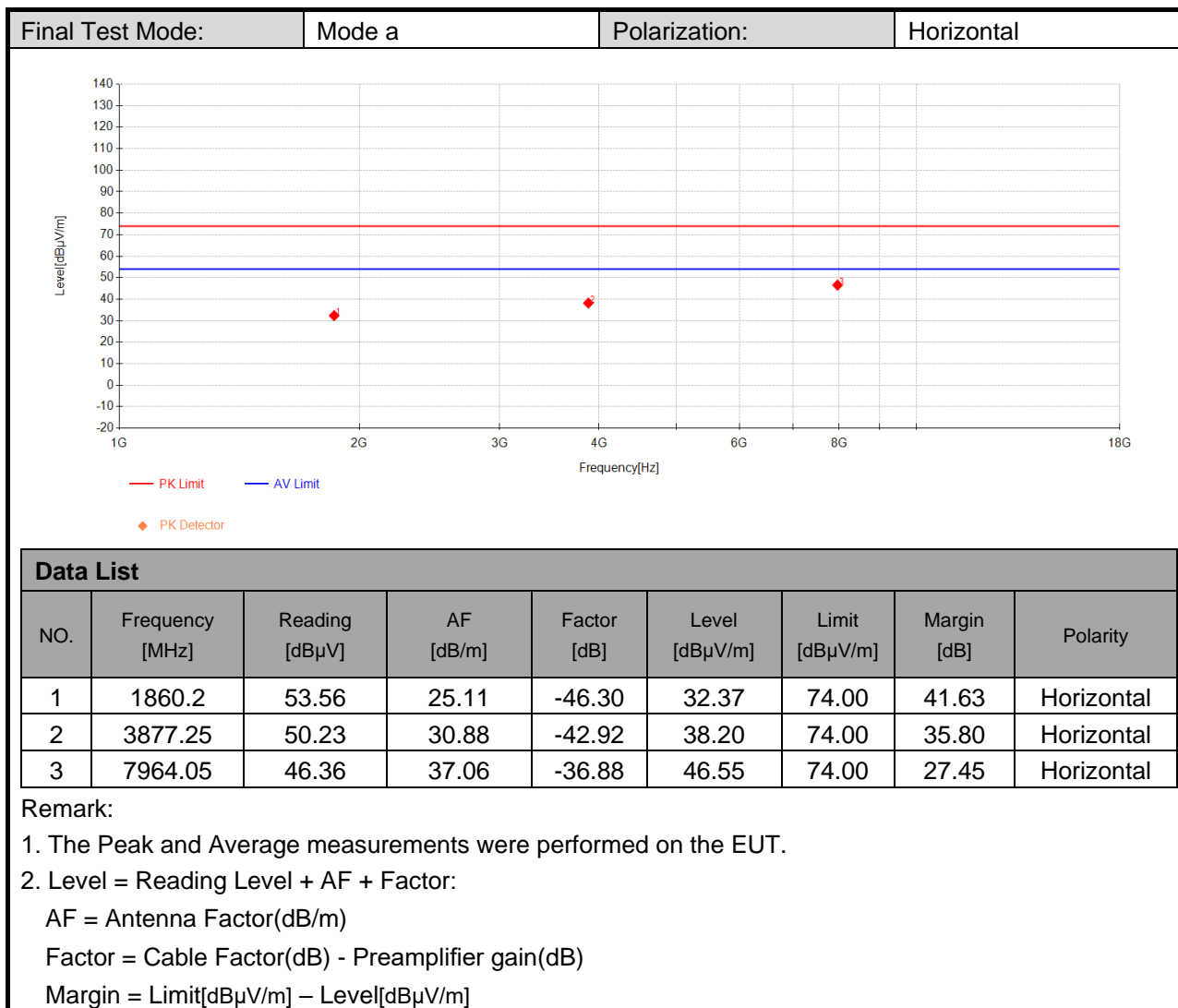
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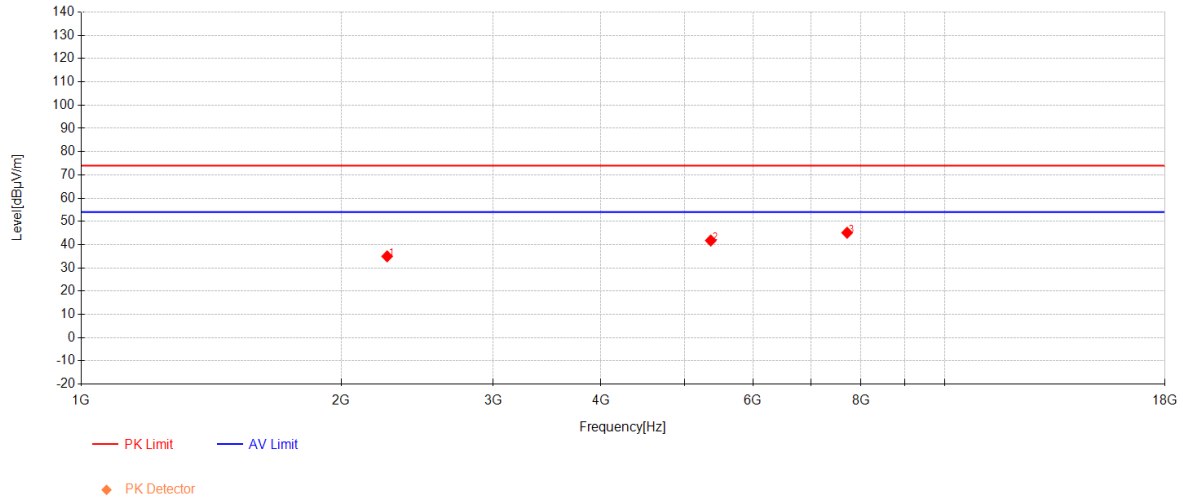


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Final Test Mode:	Mode a	Polarization:	Vertical
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2261.4	53.59	26.88	-45.51	34.96	74.00	39.04	Vertical
2	5360.5	49.45	33.13	-40.81	41.77	74.00	32.23	Vertical
3	7710.75	45.49	36.81	-37.19	45.11	74.00	28.89	Vertical

Remark:

- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit[dBμV/m] – Level[dBμV/m]

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4 Equipment List

RE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/02/2026
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/13/2025	2/12/2026
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/21/2024	11/20/2025
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/15/2025	1/14/2026
Receiving antenna	SCHWZRBECK MESS- ELEKTRONIK	VULB 9168	SUWI-01-11-04	11/25/2023	11/24/2025
Receiving antenna	SCHWZRBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/13/2023	5/12/2025
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	1/16/2025	1/15/2026
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	1/16/2025	1/15/2026
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/19/2024	11/18/2025
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

Remark: NCR=No Calibration Requirement.

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5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 2.90\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 3.13\text{dB}$ (9k -30MHz)
		$\pm 4.8\text{dB}$ (30M -1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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6 Photographs

6.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

---End of Report---

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