



FCC TEST REPORT

FCC ID: 2AT4H-R90

On Behalf of

Shanghai AllyNav Technology Co.,Ltd.

GNSS Receiver

Model No.: R90, R26pro, R27

Prepared for : Shanghai AllyNav Technology Co.,Ltd.
Address : Room 201, Buliding 1, No 215, Gaoguang RD, Qingpu District,
Shanghai, China

Prepared By : Shenzhen PSI Testing Co., Ltd.
Address : 1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road,
Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Report Number : psi2508072-C01-R05
Date of Receipt : August 13, 2025
Date of Test : August 13, 2025-September 17, 2025
Date of Report : September 17, 2025
Version Number : V0

TABLE OF CONTENTS

Description	Page
1. General Information	5
1.1. Description of Device (EUT)	5
1.2. Accessories of Device (EUT)	6
1.3. Ancillary Equipment Details	6
1.4. Test Lab Information	6
2. Summary of test	7
2.1. Summary of test result	7
2.2. Block Diagram	7
2.3. Test mode	7
2.4. Test Conditions	7
2.5. Measurement Uncertainty (95% confidence levels, k=2)	8
2.6. Test Equipment	9
3. Occupied bandwidth and 20dB Bandwidth	10
3.1. Limit	10
3.2. Test Procedure	10
3.3. Test Setup	10
3.4. Test Result	10
4. Radiated emissions	11
4.1. Limit	11
4.2. Block Diagram of Test setup	11
4.3. Test Procedure	12
4.4. Test Result	13
5. Frequency stability	19
5.1. Test limit	19
5.2. Test Procedure	19
5.3. Test Setup	19
5.4. Test Results	20
6. Power Line Conducted Emissions	21
6.1. Block Diagram of Test Setup	21
6.2. Limit	21
6.3. Test Procedure	21
6.4. Test Result	22
7. Antenna Requirements	25
7.1. Limit	25
7.2. Antenna Connected Construction	25
7.3. Results	25
8. Photos of test setup	26
9. Photos of EUT	26

TEST REPORT DECLARATION

Applicant : Shanghai AllyNav Technology Co.,Ltd.
Address : Room 201, Buliding 1,No 215, Gaoguang RD, Qingpu District, Shanghai,
China
Manufacturer : Shanghai AllyNav Technology Co.,Ltd.
Address : Room 201, Buliding 1,No 215, Gaoguang RD, Qingpu District, Shanghai,
China
EUT Description : GNSS Receiver
(A) Model No. : R90, R26pro, R27
(B) Trademark : N/A

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.225

ANSI C63.10-2020

Test Result: PASS

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC Part 15C requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....: Felix Pang
Test Engineer 

Approved by (name + signature).....: Simple Guan
Project Manager 

Date of issue.....: September 17, 2025

Revision History

Revision	Issue Date	Revisions	Revised By
V0	September 17, 2025	Initial released Issue	Felix Pang



1. General Information

1.1. Description of Device (EUT)

Product Name	: GNSS Receiver
Model No.	: R90, R26pro, R27
Diff	: All models of software and circuit are the same, only the model name is different.
Power supply	: Input: 5.0V $\Rightarrow$ 3.0A or DC 7.4V powered by Li-ion battery
Adapter	: MODEL:XY-PD45CA INPUT:100-240V~50/60Hz, 1A OUTPUT USB-A: 5V $\Rightarrow$ 3A, 9V $\Rightarrow$ 2A, 12V $\Rightarrow$ 1.5A OUTPUT USB-C: 5V $\Rightarrow$ 3A, 9V $\Rightarrow$ 3A, 12V $\Rightarrow$ 3A, 15V $\Rightarrow$ 3A, 20V $\Rightarrow$ 2.25A; QC3.0 OUTPUT:C+A: 30W+5V $\Rightarrow$ 2.4A
Radio Technology	: NFC
Operation frequency	: 13.56MHz
Channel No.	: 1 Channel
Modulation	: ASK
Antenna Type	: Internal Antenna, Antenna gain 0dBi. Antenna information is provided by applicant.
Software version	: V1.0
Hardware Version/ FVIN	: V1.0
Note	: Antenna information is provided by applicant. : Testing lab is not responsible for the accuracy of the information.

1.2. Accessories of Device (EUT)

Accessories 1 : N/A

Manufacturer : N/A

Model : N/A

Rating : N/A

1.3. Ancillary Equipment Details

No.	Description	Manufacturer	Model	Serial Number

1.4. Test Lab Information

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

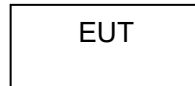
September 13, 2023 File on Federal Communication Commission
Registration Number: 916281

2. Summary of test

2.1. Summary of test result

Description of Test Item	Standard		Results
	FCC	IC	
Conducted Emission	15.207	RSS-GEN 8.8	PASS
Radiated emissions	15.209	RSS-Gen 8.9	PASS
Fundamental field strength limit	15.225	RSS 210 B.6	PASS
Frequency stability	15.225	RSS 210 B.6	PASS
20Db Emission Bandwidth	15.225	RSS 210 B.6	PASS
Antenna Requirement	15.203	RSS-GEN(6.8)	PASS

2.2. Block Diagram



2.3. Test mode

Tested mode, channel, and data rate information		
Mode	Channel	Frequency(MHz)
1	CH1	13.56
Note: According exploratory test, EUT will have maximum output power in those data rate. So those data rate were used for all test.		

2.4. Test Conditions

Temperature range	21-25℃
Humidity range	40-75%
Pressure range	86-106kPa

2.5. Measurement Uncertainty (95% confidence levels, k=2)

Item	Uncertainty
Power Line Conducted Emissions Test	2.13dB
Radiation Emission test in 3m chamber(Below 30MHz)	4.07dB
Radiation Emission test in 3m chamber(30MHz to 1GHz)	4.51dB
Radiation Emission test in 3m chamber(1GHz to 18GHz)	5.07dB
Radiation Emission test in 3m chamber(18GHz to 40GHz)	5.21dB
Radio Frequency	48.24KHz
Conducted RF Power	0.41dB
Power Spectral Density	0.39 dB
Occupied-Bandwidth	968Hz
Duty Cycle	1%
Conducted-Spurious Emission	1.26dB



2.6. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	9*6*6 anechoic chamber	SKET	9*6*6	N/A	/	2022.12.20	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2024.12.18	1 Year
3.	L.I.S.N.#1	Rohde&Schwarz	ENV216	102282	/	2024.12.18	1 Year
4.	L.I.S.N.#2	RFT	NNB111	13835240	/	2024.12.18	1 Year
5.	Loop Antenna	Schwarz beck	FMZB 1519B	00128	/	2025.01.02	2 Year
6.	Bilog Antenna	Schwarz beck	VULB 9168	01448	/	2025.01.02	2 Year
7.	Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101648	3.70	2024.12.18	1 Year
8.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2025.01.02	2 Year
9.	Amplifier	SKET	LAPA_01G1 8G-45dB	SK20220329 01	/	2024.12.18	1 Year
10.	Horn Antenna	Schwarz beck	BBHA 9170	00946	/	2024.12.31	2 Year
11.	Amplifier	SKET	LNPA_0118 G-45	SK20200108 01	/	2024.12.18	1 Year
12.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.0 2-1111533-Fz	/	2024.12.18	1 Year
13.	RF Sensor Unit	Tachoy	TR1029-2	20220428P0 08	/	2024.12.18	1 Year
14.	Spectrum Analyzer	Agilent	N9020A	MY51281067	A.14.03	2024.12.18	1 Year
15.	Temp. & Humid Chamber	Auchno	9606	/	/	2024.12.18	1 Year
16.	Regulated DC Power Supply	Xinouhua	ADC120V10 A	20221125163 8		2024.12.18	1 Year
17.	Cable	SKET	Cable-RE-1	#02/#03	/	2024.12.18	1 Year
18.	Cable	SKET	Cable-RE-2	#01	/	2024.12.18	1 Year
19.	Cable	SKET	Cable-RE-3	#04	/	2024.12.18	1 Year
20.	Cable	SKET	Cable-CE-1	A-E-24	/	2024.12.18	1 Year
21.	6dB Attenuator	Schwarzbeck	DGA 9552N 6dB	CK4186	/	2024.12.18	1 Year

For Test Software Information

Item	Software Name	Manufacturer	Version
RE	EZ EMC	Farad	PSI-3A1
CE	EZ EMC	Farad	PSI-3A1
RF	RTS	TACHOY	V1.0.0

3. Occupied bandwidth and 20dB Bandwidth

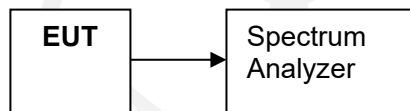
3.1. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in FCC part 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

3.2. Test Procedure

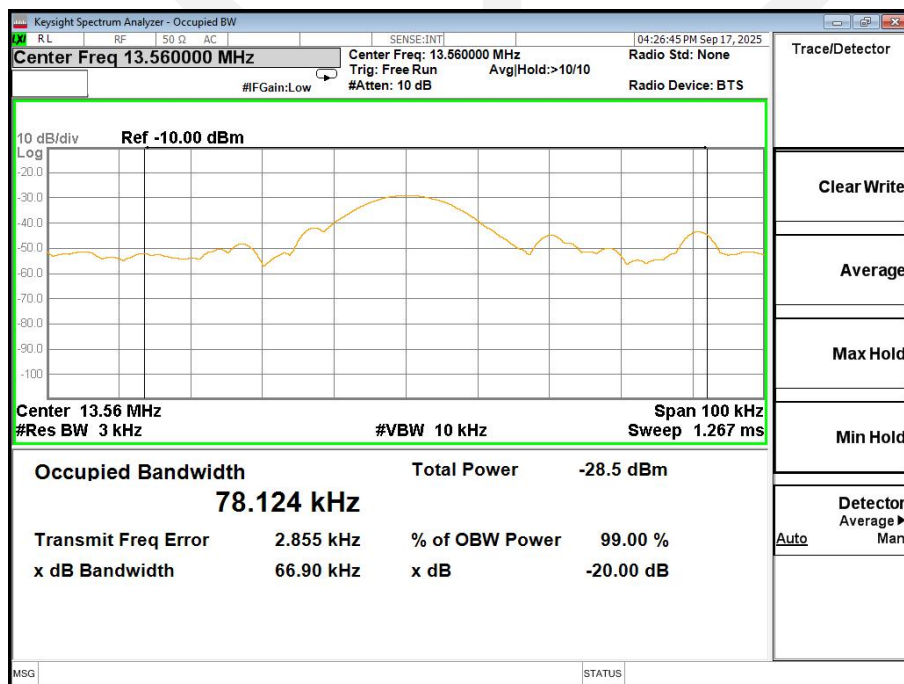
1. The transmitter output was directly connected to a spectrum analyzer with a 50Ω cable. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 3KHz RBW and 10kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.
2. The test receiver set RBW =1-5%BW, VBW≥3*RBW, Sweep time set auto, detail see the test plot for 99% Bandwidth.

3.3. Test Setup



3.4. Test Result

Modulation	Frequency (MHz)	20dB bandwidth (kHz)	Result
ASK	13.56	66.90	Pass



4. Radiated emissions

4.1. Limit

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Note:

- a) The tighter limit applies at the band edges.

For example: F.S limit at 88MHz is 100uV/m

- b) If measurement is made at 3m distance, then F.S Limit at 3m distance is adjusted by using the formula of $L_{d1} = L_{d2} * (d2/d1)^2$.

For example:

F.S Limit at 30m(d_2) distance is 30uV/m(L_{d2}), then F.S Limit at 3m(d_1) distance is

$$L_{d1} = 30\text{uV/m} * (30/3)^2 = 100 * 30\text{uV/m} = 69.54 \text{ dBuV/m}$$

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

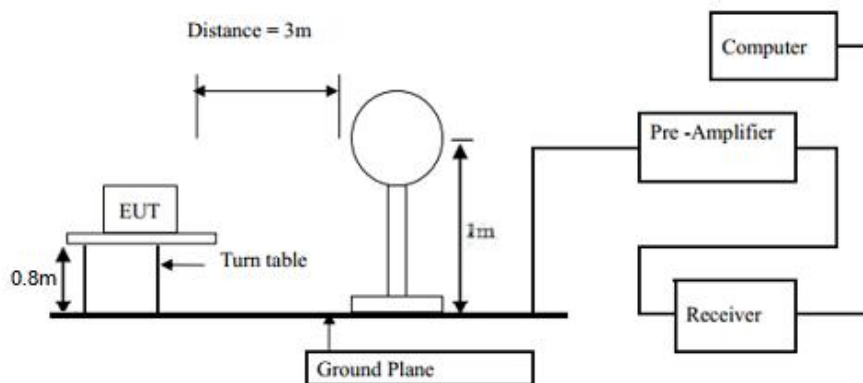
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

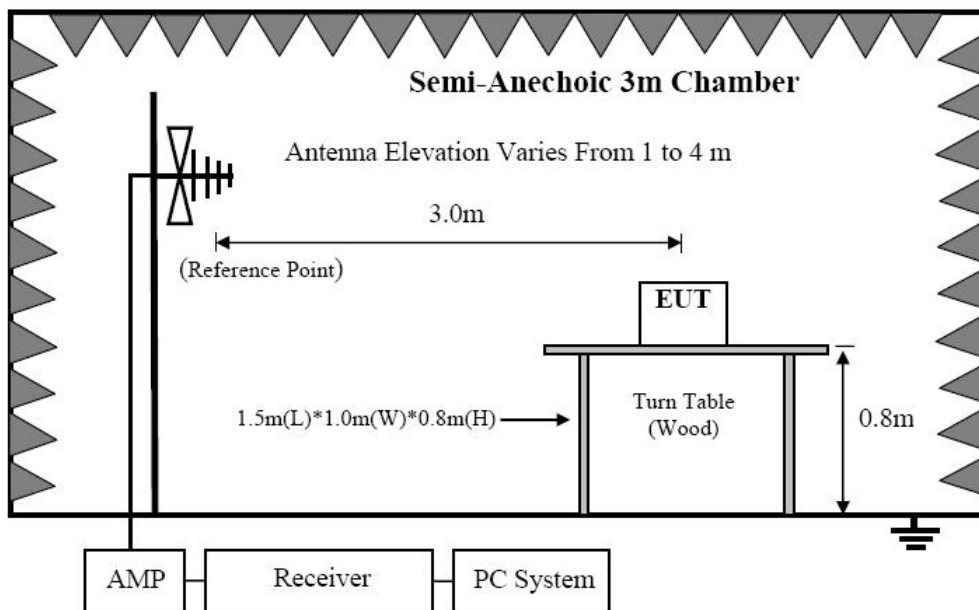
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

4.2. Block Diagram of Test setup

In 3m Anechoic Chamber Test Setup Diagram for below 30MHz



In 3m Anechoic Chamber Test Setup Diagram for frequency 30MHz-1GHz



4.3. Test Procedure

Procedure of Preliminary Test

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 4.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2020.

Mains cables, telephone lines or other connections to auxiliary equipment located outside the test are shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle.

The antenna was placed at 3 meter away from the EUT as stated in ANSI C63.10-2020. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.

The Receiver quickly scanned from 9KHz to 30MHz and 30MHz to 1GHz The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

The test mode(s) described in clause 2.4 were scanned during the preliminary test:

After the preliminary scan, we found the test mode producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

Procedure of Final Test

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.

The Receiver scanned from 9KHz to 30MHz and 30MHz to 1GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.

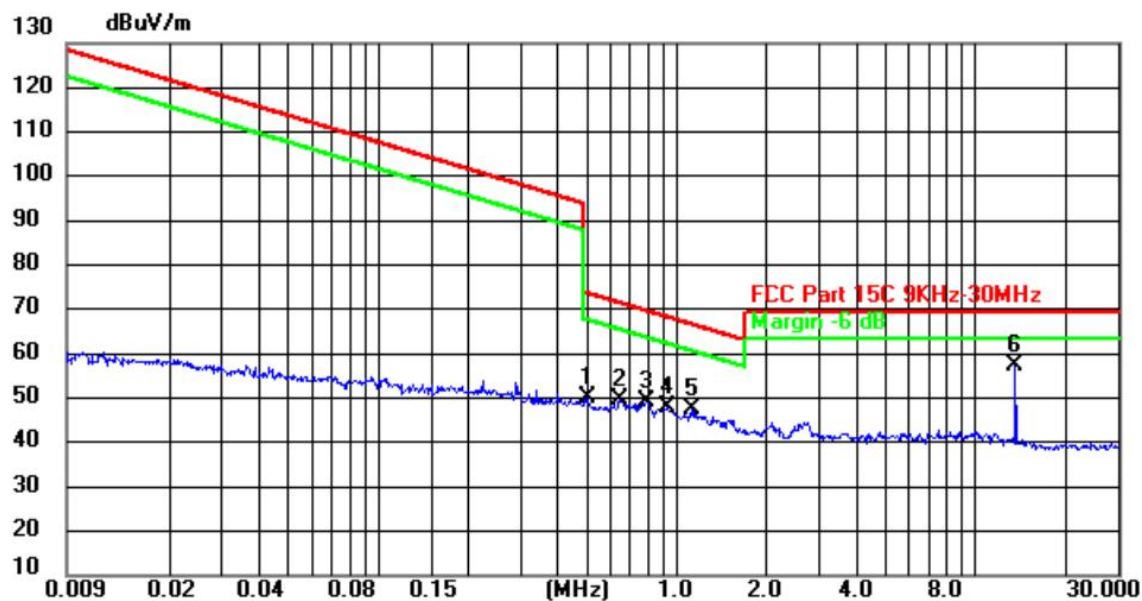
The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 200Hz for 9 KHz to 150 KHz measure, 10 KHz for 150 KHz to 30MHz measure and 120 KHz for 30 MHz to 1GHz measure.

4.4. Test Result

From 9KHz to 30MHz:	
Test Date : 2025.8.19	Temperature : 26℃
Test Engineer : Felix Pang	Humidity : 54%
Test Mode : NFC	
Test Results : PASS	
Note: 1. The test results are listed in next pages. 2. This mode is worst case mode, so this report only reflected the worst mode. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out.	

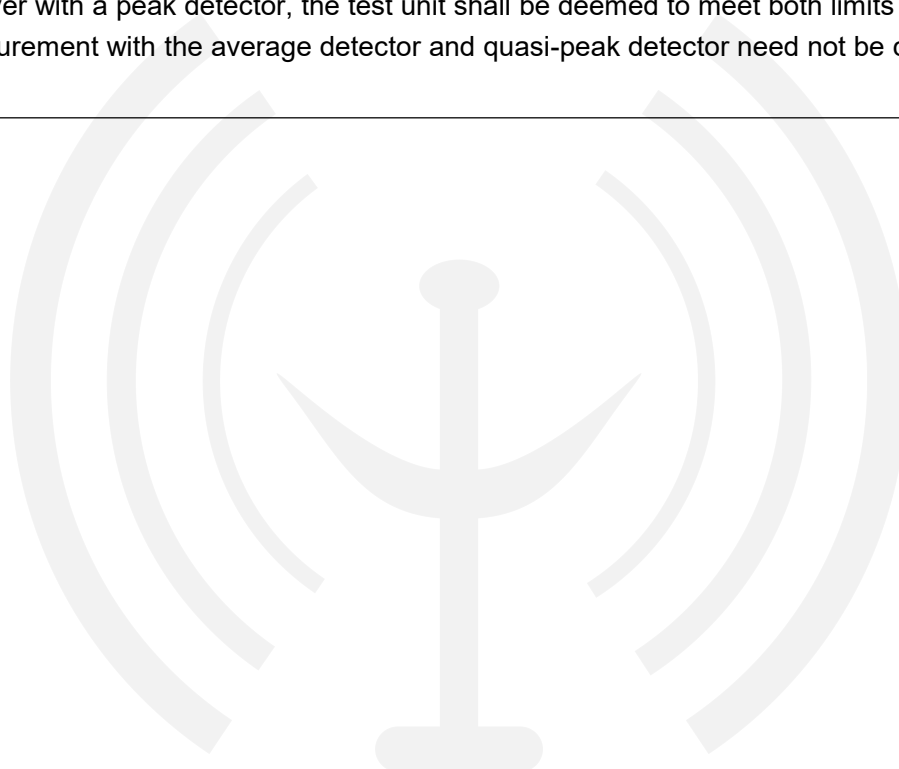
Polarization: Coaxial



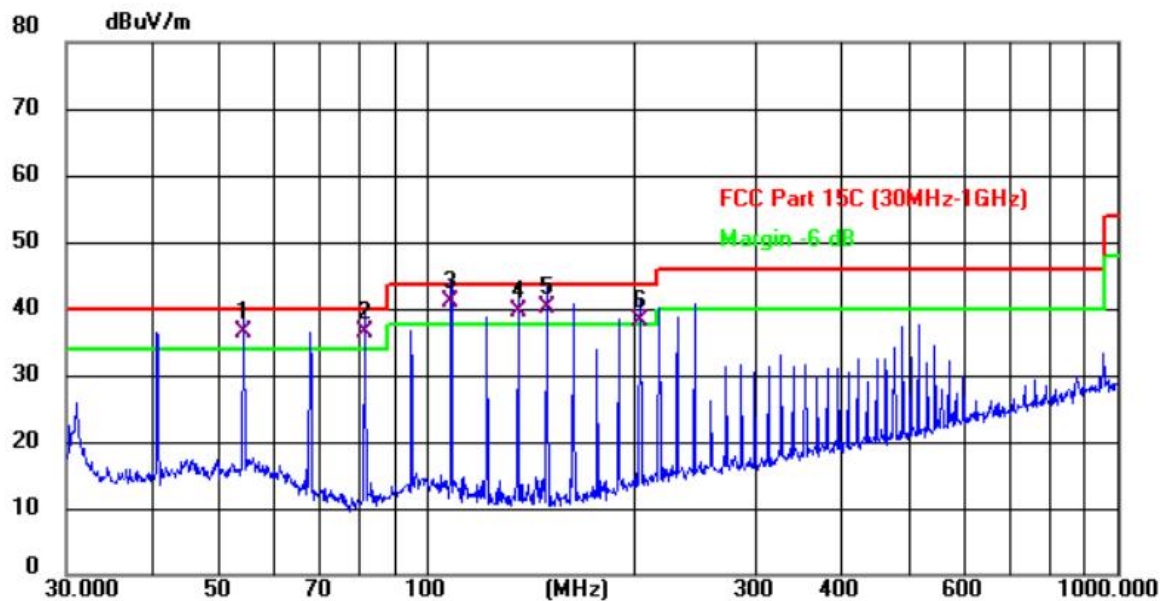
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.5030	48.81	1.10	49.91	73.57	-23.66	peak
2	0.6411	48.31	1.38	49.69	71.47	-21.78	peak
3	0.7922	47.62	1.69	49.31	69.63	-20.32	peak
4	0.9314	45.75	1.97	47.72	68.22	-20.50	peak
5	1.1130	45.07	2.34	47.41	66.67	-19.26	peak
6 *	13.5600	56.38	0.84	57.22	69.54	-12.32	peak

Note: Level = Reading + Factor Margin = Level - Limit

From 30MHz to 1000MHz:	
Test Date : 2025.8.19	Temperature : 26℃
Test Engineer : Felix Pang	Humidity : 54%
Test Mode : NFC	
Test Results : PASS	
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out.



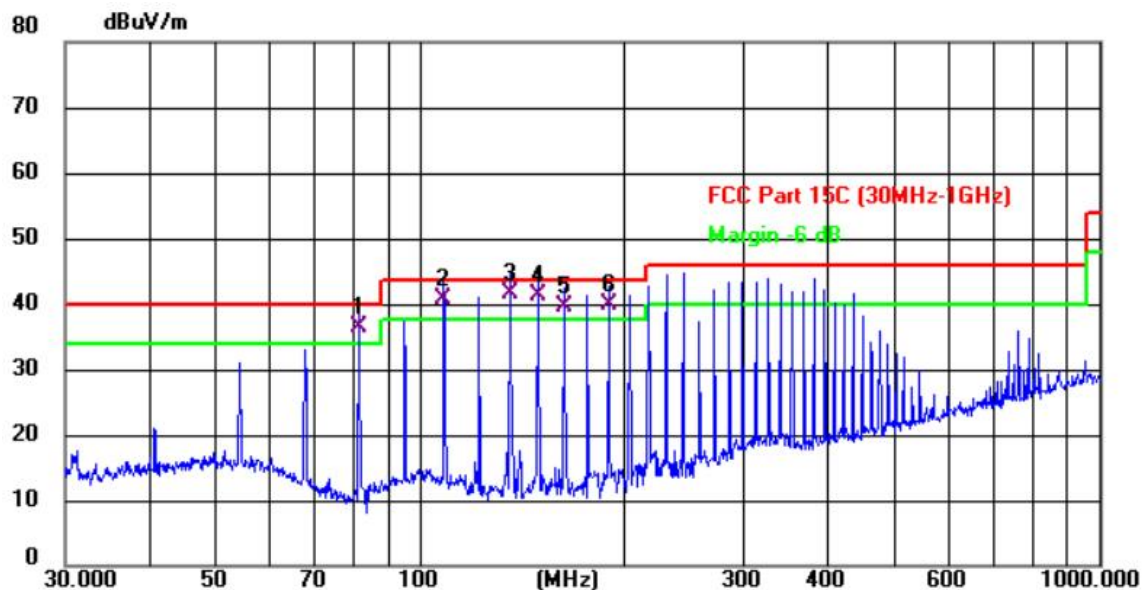
Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 !	54.2610	45.92	-9.38	36.54	40.00	-3.46	QP
2 !	81.2116	50.40	-14.01	36.39	40.00	-3.61	QP
3 *	108.2664	52.62	-11.57	41.05	43.50	-2.45	QP
4 !	135.5061	52.68	-13.25	39.43	43.50	-4.07	QP
5 !	148.9624	54.07	-13.81	40.26	43.50	-3.24	QP
6 !	203.5226	48.98	-10.71	38.27	43.50	-5.23	QP

Note: Level = Reading + Factor Margin = Level - Limit

Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 !	81.2116	50.40	-14.01	36.39	40.00	-3.61	QP
2 !	108.2664	52.19	-11.57	40.62	43.50	-2.88	QP
3 *	135.5061	54.88	-13.25	41.63	43.50	-1.87	QP
4 !	148.9624	55.06	-13.81	41.25	43.50	-2.25	QP
5 !	162.6105	52.64	-13.15	39.49	43.50	-4.01	QP
6 !	189.7384	51.36	-11.54	39.82	43.50	-3.68	QP

Note: Level = Reading + Factor Margin = Level - Limit

Field Strength Emissions Result

Temperature		24°C			Relative Humidity		56%	
Test Mode		NFC						
Freq. (MHz)	Position H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limits 3m (dBuV/m)	Margin (dBuV/m)	
13.560	H	Peak	57.12	-13.94	43.18	124	-80.82	
13.560	H	AV	49.86	-13.94	35.92	104	-68.08	
13.110	H	Peak	50.22	-13.94	36.28	80.5	-44.22	
13.410	H	Peak	49.74	-13.94	35.80	90.5	-54.70	
13.553	H	Peak	48.41	-13.94	34.47	90.5	-56.03	
13.567	H	Peak	45.86	-13.93	31.93	90.5	-58.57	
13.710	H	Peak	43.36	-13.93	29.43	80.5	-51.07	
14.010	H	Peak	45.44	-13.93	31.51	80.5	-48.99	
Freq. (MHz)	Position H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limits 3m (dBuV/m)	Margin (dBuV/m)	
13.560	V	Peak	58.65	-13.94	44.71	124	-79.29	
13.560	V	AV	49.31	-13.94	35.37	104	-68.63	
13.110	V	Peak	51.19	-13.94	37.25	80.5	-43.25	
13.410	V	Peak	51.21	-13.94	37.27	90.5	-53.23	
13.553	V	Peak	50.02	-13.94	36.08	90.5	-54.42	
13.567	V	Peak	45.46	-13.93	31.53	90.5	-58.97	
13.710	V	Peak	45.10	-13.93	31.17	80.5	-49.33	
14.010	V	Peak	44.81	-13.93	30.88	80.5	-49.62	
Note: 1: 30m to 3m correction factor calculation: 40*Log(30m/3m)=40								
2: --Means other frequency and mode comply with standard requirements and at least have 20dB margin.								
3: Correct Factor=Cable Loss+ Antenna Factor- Amplifier Gain								
Measurement Result=Reading + Correct Factor								
Margin=Measurement Result-Limit								

5. Frequency stability

5.1. Test limit

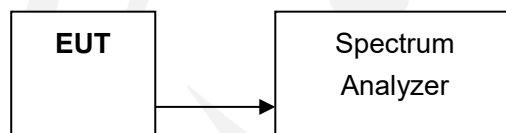
Please refer section RSS 210 B.6 & 15.225e.

Regulation 15.225(e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ (± 100 ppm) of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

5.2. Test Procedure

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3. Test Setup

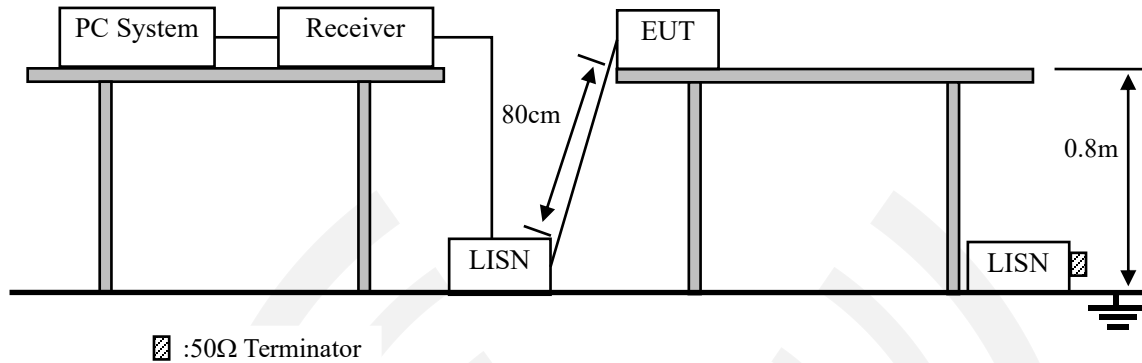


5.4. Test Results

Assigned Frequency(MHz): 13.56MHz				
Voltage (V)	Temperature ℃	Measured Frequency (MHz)	Frequency stability (MHz)	Limit
Low DC 10.8V	+20℃	13.560121	0.000121	±100 ppm ±0.001356MHz
Normal DC 12V	-10℃	13.560152	0.000152	
	-5℃	13.560164	0.000164	
	0℃	13.560172	0.000172	
	+10℃	13.560151	0.000151	
	+20℃	13.560145	0.000145	
	+30℃	13.560174	0.000174	
	+40℃	13.560151	0.000151	
	+50℃	13.560163	0.000163	
	+60℃	13.560154	0.000154	
High DC 13.2V	+20℃	13.560155	0.000155	
Results: Pass				

6. Power Line Conducted Emissions

6.1. Block Diagram of Test Setup



6.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

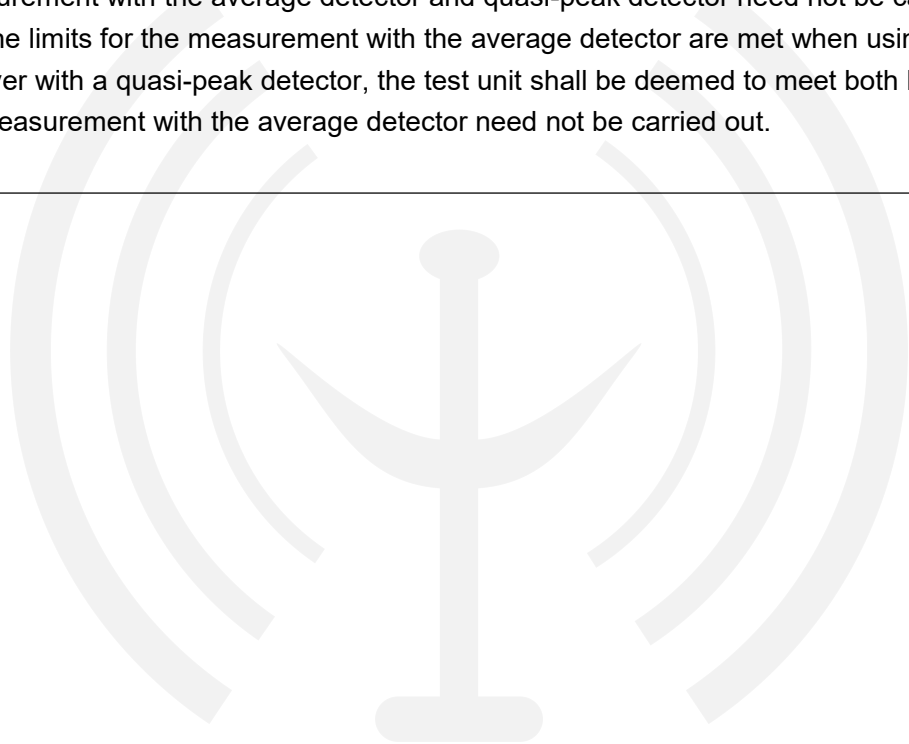
2. The lower limit shall apply at the transition frequencies.

6.3. Test Procedure

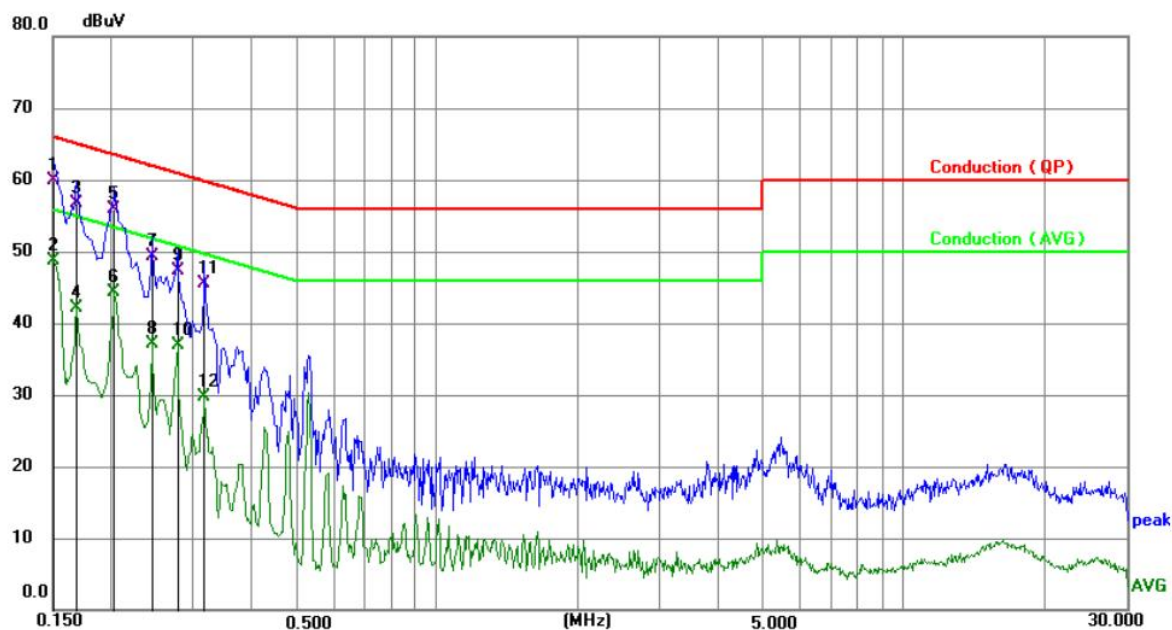
- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N1), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10-2020 on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

6.4. Test Result

Test Date	: 2025.8.19	Temperature	: 26℃
Test Engineer	: Felix Pang	Humidity	: 54%
Test Mode	: NFC		
Test Results	: PASS		
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.		



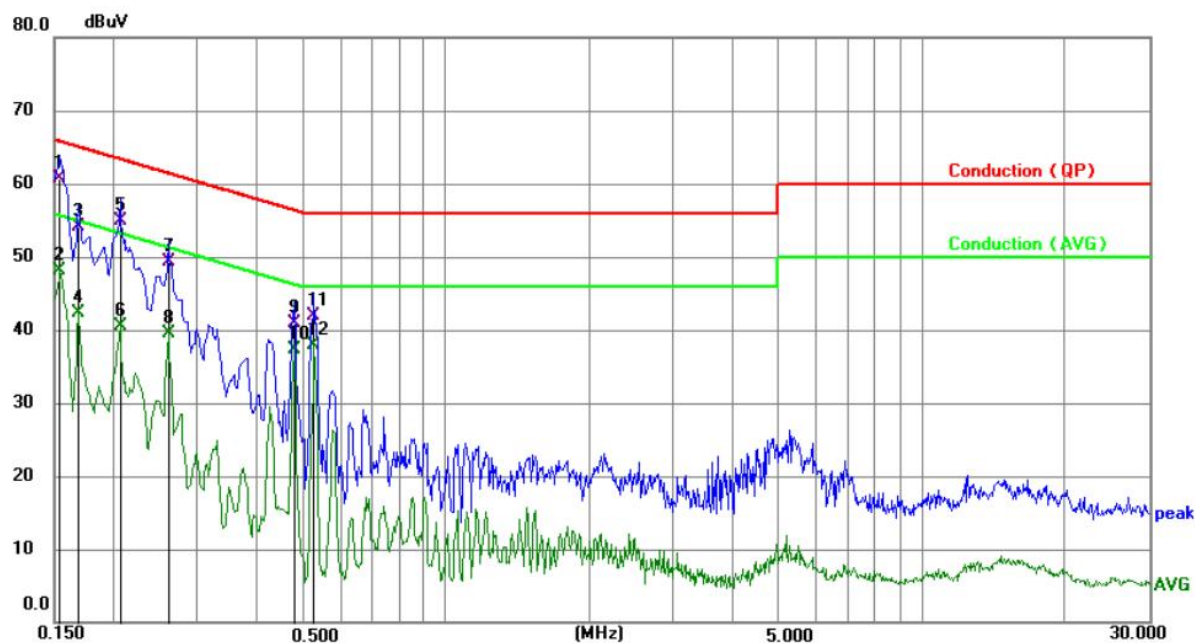
Polarization: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1 *	0.1500	49.92	9.89	59.81	66.00	-6.19	QP	P
2	0.1500	38.86	9.89	48.75	56.00	-7.25	AVG	P
3	0.1680	46.74	9.90	56.64	65.06	-8.42	QP	P
4	0.1680	32.29	9.90	42.19	55.06	-12.87	AVG	P
5	0.2028	46.06	9.91	55.97	63.50	-7.53	QP	P
6	0.2028	34.36	9.91	44.27	53.50	-9.23	AVG	P
7	0.2442	39.42	9.93	49.35	61.95	-12.60	QP	P
8	0.2442	27.12	9.93	37.05	51.95	-14.90	AVG	P
9	0.2760	37.35	9.94	47.29	60.94	-13.65	QP	P
10	0.2760	26.99	9.94	36.93	50.94	-14.01	AVG	P
11	0.3165	35.51	9.96	45.47	59.80	-14.33	QP	P
12	0.3165	19.67	9.96	29.63	49.80	-20.17	AVG	P

Note: Level = Reading + Factor Margin = Level - Limit

Polarization: N



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1 *	0.1539	50.89	9.89	60.78	65.79	-5.01	QP	P
2	0.1539	38.27	9.89	48.16	55.79	-7.63	AVG	P
3	0.1680	44.29	9.90	54.19	65.06	-10.87	QP	P
4	0.1680	32.43	9.90	42.33	55.06	-12.73	AVG	P
5	0.2061	44.97	9.91	54.88	63.36	-8.48	QP	P
6	0.2061	30.65	9.91	40.56	53.36	-12.80	AVG	P
7	0.2602	39.39	9.93	49.32	61.43	-12.11	QP	P
8	0.2602	29.60	9.93	39.53	51.43	-11.90	AVG	P
9	0.4784	30.89	10.01	40.90	56.37	-15.47	QP	P
10	0.4784	27.36	10.01	37.37	46.37	-9.00	AVG	P
11	0.5265	31.93	10.02	41.95	56.00	-14.05	QP	P
12	0.5265	27.84	10.02	37.86	46.00	-8.14	AVG	P

Note: Level = Reading + Factor Margin = Level - Limit

7. Antenna Requirements

7.1. Limit

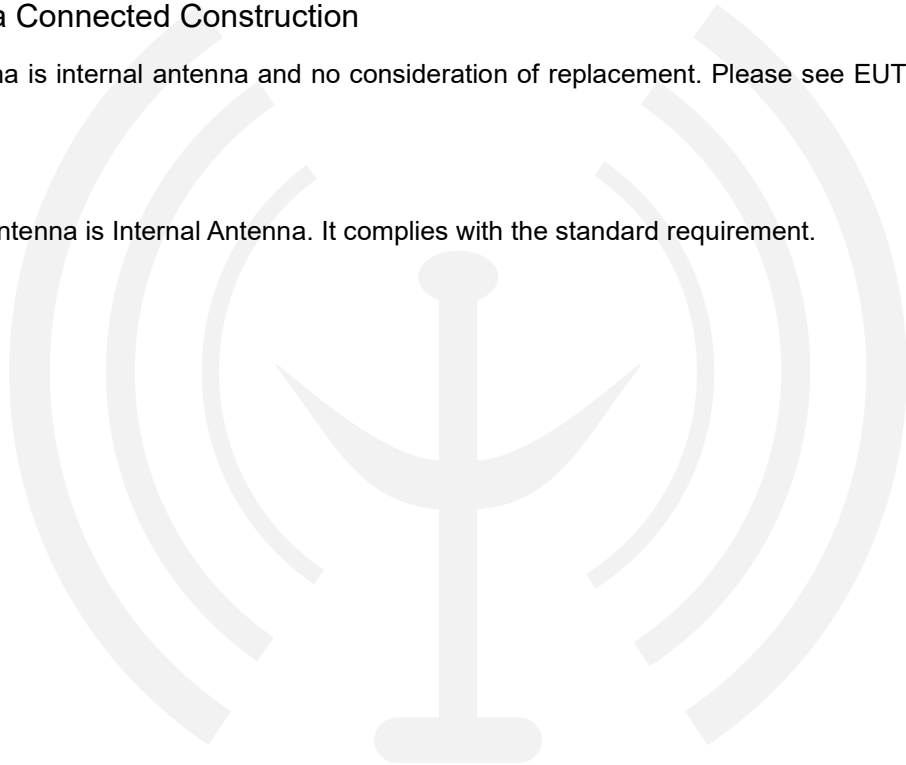
For intentional device, according to RSS-Gen Section 6.8 and FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.209, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

7.2. Antenna Connected Construction

The antenna is internal antenna and no consideration of replacement. Please see EUT photo for details.

7.3. Results

The EUT antenna is Internal Antenna. It complies with the standard requirement.



8. Photos of test setup

Reference to the **appendix I Test Setup Photo** for details.

9. Photos of EUT

Reference to the **appendix II external photos** and **appendix III internal photos** for details.

----- END OF REPORT-----

