



RF TEST REPORT

Product Name: Wireless Transceiver Module

Model Number: WS8858

FCC ID: 2BB8U-WS8858

Issued For : Chengdu Silent Smart Technology Co., Ltd.
303-7, Floor 3, Building 12, No.38, South Jinke Road, Jinniu
Hi-tech Industrial Park, Chengdu, Sichuan, China

Issued By : Shenzhen LGT Test Service Co., Ltd.
Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT25I131RF02

Sample Received Date: Sep. 16, 2025

Date of Test: Sep. 16, 2025 ~ Oct. 15, 2025

Date of Issue: Oct. 15, 2025

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TEST REPORT CERTIFICATION

Applicant: Chengdu Silent Smart Technology Co., Ltd.
Address: 303-7, Floor 3, Building 12, No.38, South Jinke Road, Jinniu Hi-tech Industrial Park, Chengdu, Sichuan, China
Manufacturer: Chengdu Silent Smart Technology Co., Ltd.
Address: 303-7, Floor 3, Building 12, No.38, South Jinke Road, Jinniu Hi-tech Industrial Park, Chengdu, Sichuan, China
Product Name: Wireless Transceiver Module
Trademark: Silent Smart
Model Number: WS8858
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.249, Subpart C ANSI C63.10-2020	PASS

Prepared by:

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Vita Li

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Technical Director





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Revision History

Rev.	Issue Date	Revisions
00	Oct. 15, 2025	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15.249, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.249	Radiated Spurious Emission	PASS	--
15.205	Restricted Band Edge Emission	PASS	--
15.249	20dB Bandwidth	Pass	--
15.203	Antenna Requirement	PASS	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020.



1.1 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	Occupied Channel Bandwidth	$\pm 0.46\%$
2	RF Output Power, Conducted	$\pm 0.71\text{dB}$
3	Power Spectral Density, Conducted	$\pm 1.57\text{dB}$
4	Unwanted Emission, Conducted	$\pm 0.63\text{dB}$
5	Conducted emission	$\pm 2.80\text{dB}$
6	All Emissions, Radiated (0.009-30MHz)	$\pm 2.16\text{dB}$
7	All Emissions, Radiated (30MHz-1GHz)	$\pm 4.61\text{dB}$
8	All Emissions, Radiated (1GHz-18GHz)	$\pm 5.49\text{dB}$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Wireless Transceiver Module	
Test Model Number:	WS8858	
Series Number:	N/A	
Model Difference:	N/A	
Product Description:	Operation Frequency:	902.2MHz to 927.8MHz
	Modulation Type:	FSK
	Number Of Channel:	129CH
	Antenna Type:	Rod Antenna
	Antenna Gain (dBi):	0
Rating:	VCC: 1.71~3.8V OFDM mode VCC: 3.45~3.8V	
Hardware Version:	V1.1	
Software Version:	V1.0	
Connecting I/O Port(s):	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3.

Channel List							
1	902.2	34	908.8	66	915.2	98	921.6
2	902.4	35	909	67	915.4	99	921.8
3	902.6	36	909.2	68	915.6	100	922
4	902.8	37	909.4	69	915.8	101	922.2
5	903	38	909.6	70	916	102	922.4
6	903.2	39	909.8	71	916.2	103	922.6
7	903.4	40	910	72	916.4	104	922.8
8	903.6	41	910.2	73	916.6	105	923
9	903.8	42	910.4	74	916.8	106	923.2
10	904	43	910.6	75	917	107	923.4
11	904.2	44	910.8	76	917.2	108	923.6
12	904.4	45	911	77	917.4	109	923.8
13	904.6	46	911.2	78	917.6	110	924
14	904.8	47	911.4	79	917.8	111	924.2
15	905	48	911.6	80	918	112	924.4
16	905.2	49	911.8	81	918.2	113	924.6
17	905.4	50	912	82	918.4	114	924.8
18	905.6	51	912.2	83	918.6	115	925
19	905.8	52	912.4	84	918.8	116	925.2
20	906	53	912.6	85	919	117	925.4
21	906.2	54	912.8	86	919.2	118	925.6
22	906.4	55	913	87	919.4	119	925.8
23	906.6	56	913.2	88	919.6	120	926
24	906.8	57	913.4	89	919.8	121	926.2
25	907	58	913.6	90	920	122	926.4
26	907.2	59	913.8	91	920.2	123	926.6
27	907.4	60	914	92	920.4	124	926.8
28	907.6	61	914.2	93	920.6	125	927
29	907.8	62	914.4	94	920.8	126	927.2
30	908	63	914.6	95	921	127	927.4
31	908.2	64	914.8	96	921.2	128	927.6
32	908.4	65	915	97	921.4	129	927.8
33	908.6	--	--	--	--	--	--



2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH01(902.2MHz)	FSK
Mode 2	TX CH65(915MHz)	FSK
Mode 3	TX CH129(927.8MHz)	FSK

Note:

(1) All above mode has been measurement, only worst data was reported.

(2) We have be tested for all avaiable U.S. voltage and frequency (For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: ISM	
XCOM V2.0	Mode Or Modulation type	Power setting
	FSK	-40



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	ThinkBook 14 G3 ITL	N/A	N/A
USB-A to USB-C Cable	N/A	N/A	N/A	1m

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.5 EQUIPMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
LISN	COM-POWER	LI-115	02032	2025.03.05	2026.03.04
LISN	SCHWARZBECK	NNLK 8122	00160	2025.03.05	2026.03.04
Transient Limiter	CYBERTEK	EM5010A	E225010004 9	2025.03.05	2026.03.04
Coaxial cables (9kHz-30MHz)	Juncoax	JMR600-N MNM-2M	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
Active loop Antenna	ETS	6502	00049544	2025.03.11	2028.03.10
Spectrum Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04
Trilog Broadband Antenna (30M-1G)	SCHWARZBECK	VULB 9168	2705	2024.05.17	2027.05.16
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2025.03.10	2028.03.09
Horn Antenna(18-40G)	SCHWARZBECK	BBHA 9170	685	2023.10.23	2026.10.22
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2025.03.06	2026.03.05
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2025.03.06	2026.03.05
Pre-amplifier(18-40G)	SCHWARZBECK	BBV 9721	9721-019	2024.10.21	2025.10.20
Coaxial cables (9kHz-1GHz)	Juncoax	JMR600-N MNM-8M	N.A	2025.03.06	2026.03.05
Coaxial cables (1GHz-18GHz)	TaiHe	UCD460B- NMSM-1M 9	N.A	2025.03.06	2026.03.05
Coaxial cables (18GHz-40GHz)	Junkosha Inc.	MWX241-0 5000KMSK MS	N.A	2025.03.08	2026.03.07
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2025.07.30	2026.07.29
Antenna Tower	SAEMC	BK-4AT-BS -D	SK20210930 08	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04
Signal Analyzer	Keysight	N9020A	MY50530994	2025.03.05	2026.03.04
Signal Analyzer	R&S	FSV40-N	102245	2025.02.17	2026.02.16
Power Sensor	R&S	NRP8S	149.0006K02 -104963-Ae	2025.03.06	2026.03.05
RF Automatic Test system	MW	MW100 -RFCB	MW220324L G-33	2025.03.06	2026.03.05
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04



Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2025.07.30	2026.07.29
Attenuator	eastsheep	90db	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Digital multimeter	MASTECH	MS8261	MBGBC83053	2025.03.05	2026.03.04
DC source	Keysight	E3634A	MY58036468	2025.03.06	2026.03.05
Testing Software	MTS8310_V2.0.0.0_MW				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

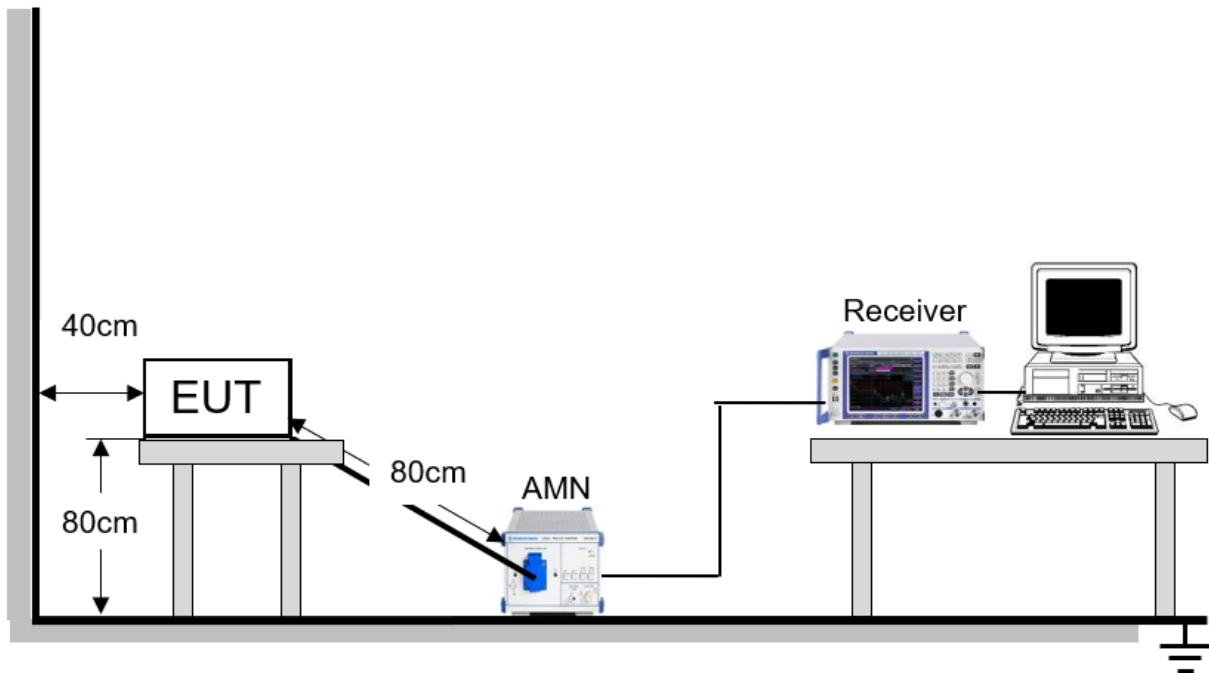
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



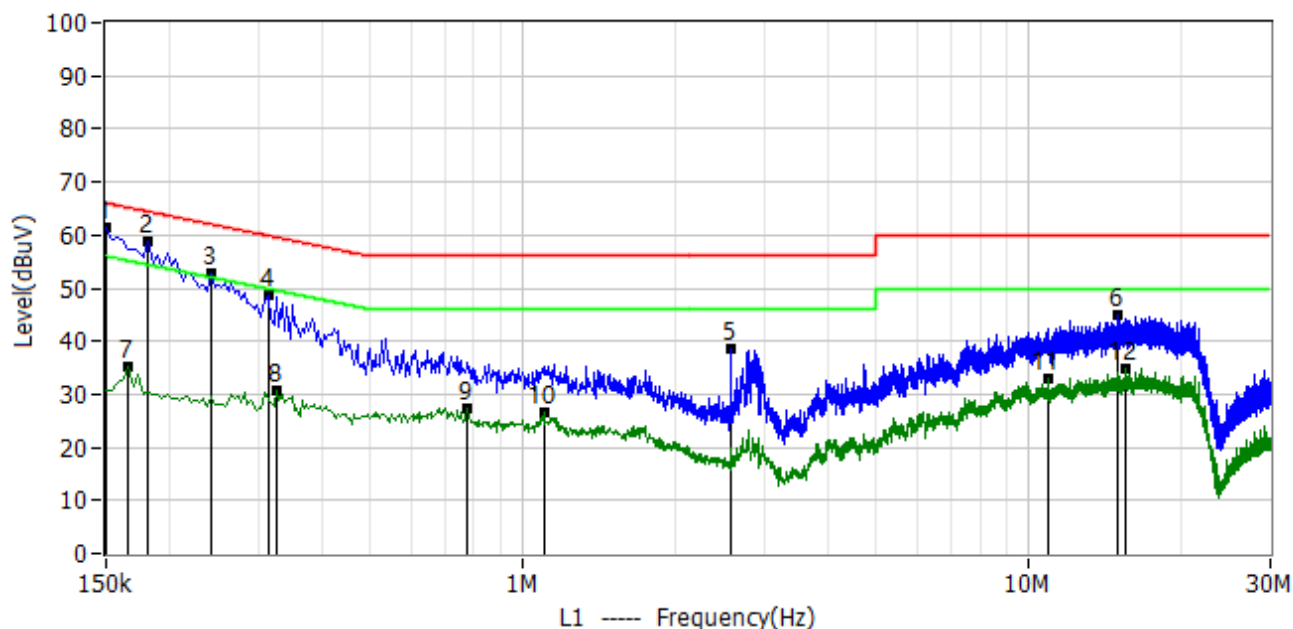
3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.5 TEST RESULTS

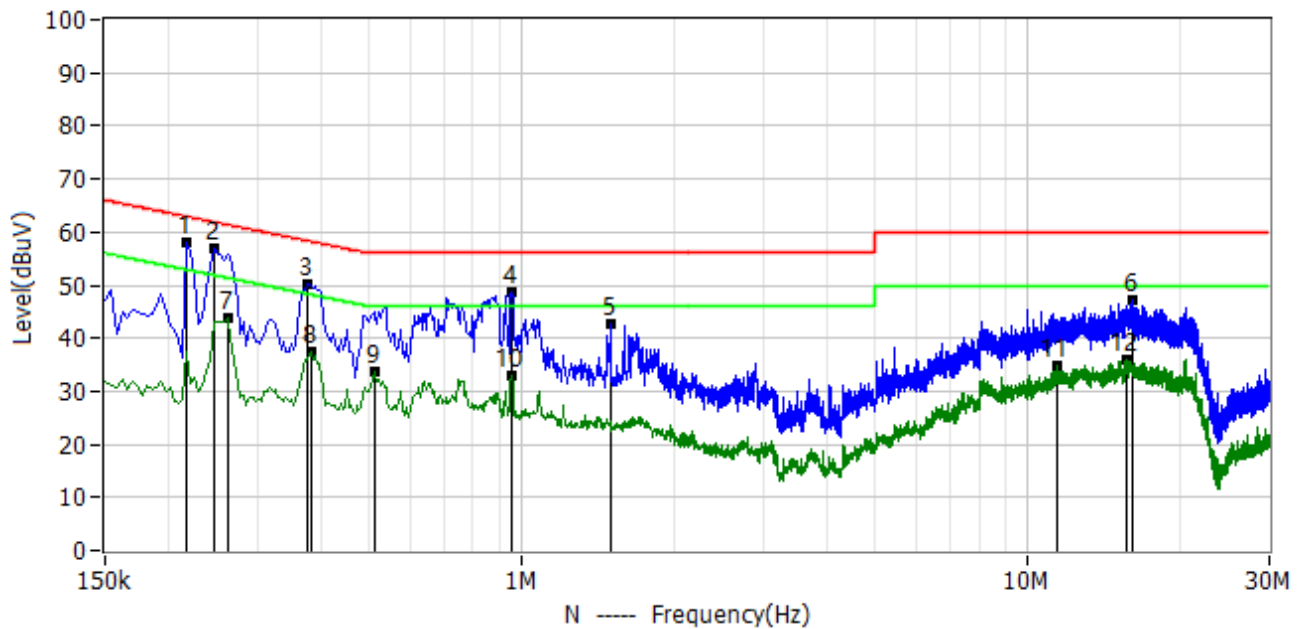
Project: LGT25I131	Test Engineer: LiuH
EUT: Wireless Transceiver Module	Temperature: 27.2°C
M/N: WS8858	Humidity: 66%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-09-23
Test Mode: TX	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.150	50.74	10.82	61.56	66.00	-4.44	QP	L1
2*	0.182	48.09	10.67	58.76	64.39	-5.63	QP	L1
3*	0.242	42.17	10.78	52.95	62.03	-9.08	QP	L1
4*	0.314	37.96	10.81	48.77	59.86	-11.09	QP	L1
5*	2.574	27.47	11.18	38.65	56.00	-17.35	QP	L1
6*	14.954	33.39	11.72	45.11	60.00	-14.89	QP	L1
7*	0.166	24.46	10.67	35.13	55.16	-20.02	AV	L1
8*	0.326	19.78	10.84	30.62	49.55	-18.93	AV	L1
9*	0.774	16.57	10.87	27.44	46.00	-18.56	AV	L1
10*	1.102	15.79	10.92	26.71	46.00	-19.29	AV	L1
11*	10.898	21.41	11.54	32.95	50.00	-17.05	AV	L1
12*	15.502	22.99	11.73	34.72	50.00	-15.28	AV	L1



Project: LGT25I131	Test Engineer: LiuH
EUT: Wireless Transceiver Module	Temperature: 27.2°C
M/N: WS8858	Humidity: 66%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-09-23
Test Mode: TX	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.218	47.24	10.69	57.93	62.89	-4.96	QP	N
2*	0.246	46.33	10.69	57.02	61.89	-4.88	QP	N
3*	0.378	39.41	10.82	50.23	58.32	-8.09	QP	N
4*	0.958	38.03	10.84	48.87	56.00	-7.13	QP	N
5*	1.494	31.48	11.10	42.58	56.00	-13.42	QP	N
6*	16.154	35.47	11.68	47.15	60.00	-12.85	QP	N
7*	0.262	33.28	10.71	43.99	51.37	-7.38	AV	N
8*	0.382	26.59	10.82	37.41	48.24	-10.83	AV	N
9*	0.510	22.76	10.84	33.60	46.00	-12.40	AV	N
10*	0.958	21.99	10.84	32.83	46.00	-13.17	AV	N
11*	11.374	23.32	11.54	34.86	50.00	-15.14	AV	N
12*	15.638	24.37	11.67	36.04	50.00	-13.96	AV	N



4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.249, Part 15.209(a) limit in the table below has to be followed.

Standard FCC 15.209

Frequencies (MHz)	Field Strength (micovolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3
Above 1000	Other:74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	3

Standard FCC 15.249

Frequency of Emission (MHz)	Field Strength of fundamental (millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
900~928	50	500
2400~2483.5	50	500
5725~5875	50	500
24000~242500	250	2500

Notes:

- (1) 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.

Spectrum Parameter	Setting
Detector	Peak/AV
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB (emission in restricted band)	>20BW
VB (emission in restricted band)	=3xRB



Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
	90kHz~110kHz / RB 200Hz for QP
	110kHz~490kHz / RB 200Hz for PK & AV
	490kHz~30MHz / RB 9kHz for QP
	30MHz~1000MHz / RB 120kHz for QP

4.2 TEST PROCEDURE

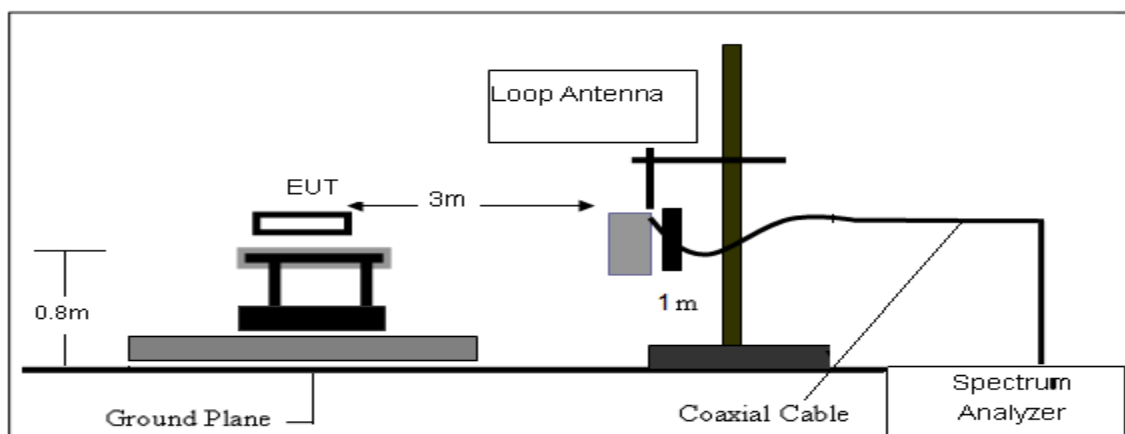
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

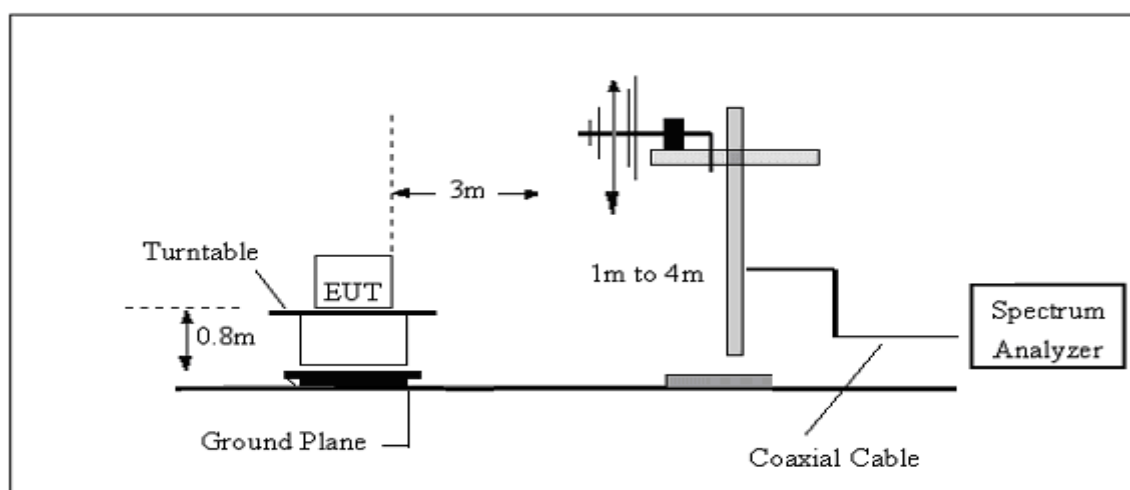
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

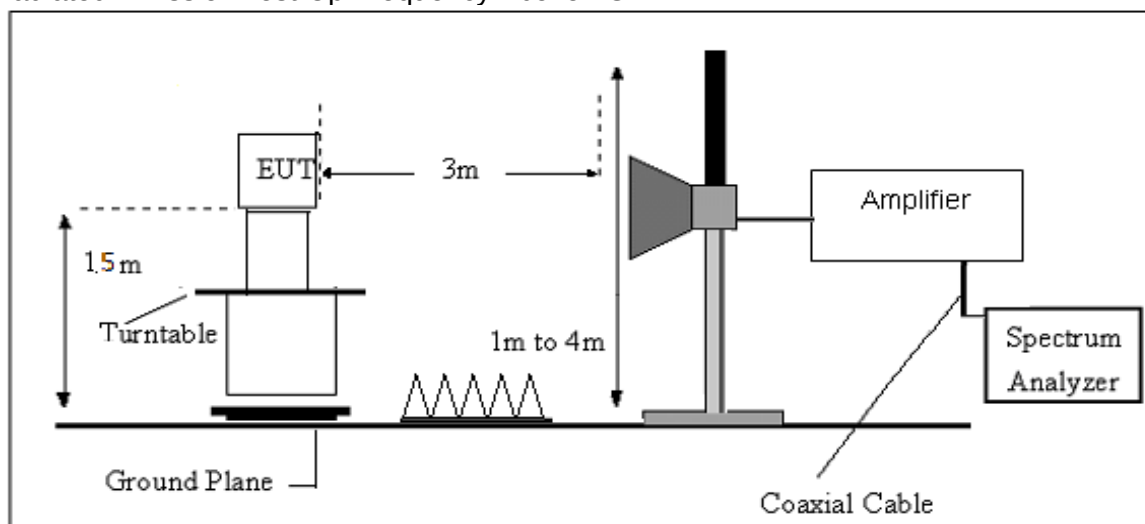
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.



4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

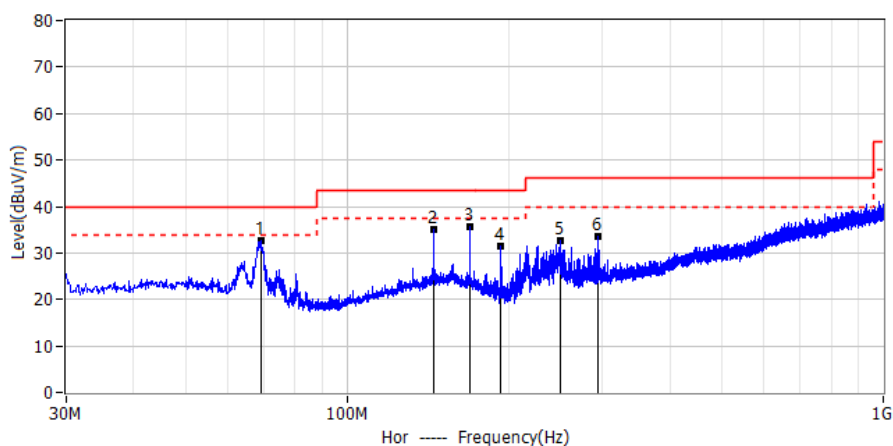
Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dB μ V/m)	(dB μ V/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$

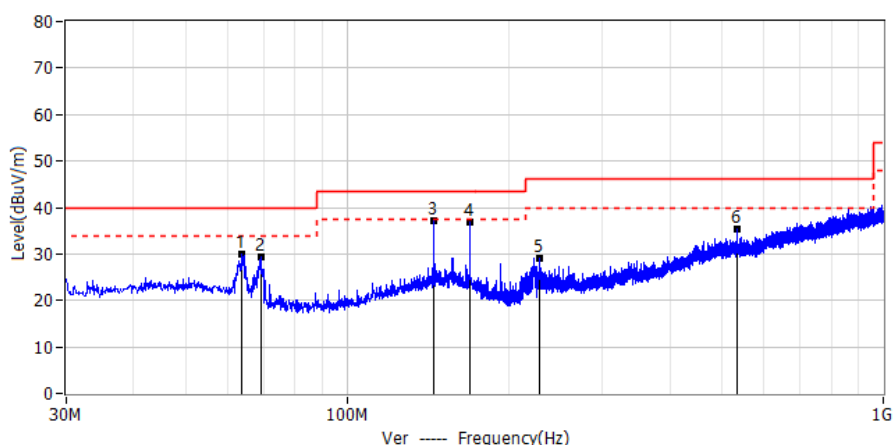


4.6 TEST RESULTS

Project: LGT25I131	Test Engineer: LiuH
EUT: Wireless Transceiver Module	Temperature: 26.0°C
M/N: WS8858	Humidity: 56%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-09-25
Test Mode: TX	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	69.043	14.23	18.29	32.52	40.00	-7.48	QP	Hor
2*	145.309	13.67	21.53	35.20	43.50	-8.30	QP	Hor
3*	169.559	14.50	21.27	35.77	43.50	-7.73	QP	Hor
4*	193.688	12.63	18.76	31.39	43.50	-12.11	QP	Hor
5*	249.584	12.54	20.08	32.62	46.00	-13.38	QP	Hor
6*	294.568	11.67	21.81	33.48	46.00	-12.52	QP	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	63.708	10.64	19.18	29.82	40.00	-10.18	QP	Ver
2*	69.043	10.97	18.29	29.26	40.00	-10.74	QP	Ver
3*	145.309	15.55	21.53	37.08	43.50	-6.42	QP	Ver
4*	169.559	15.61	21.27	36.88	43.50	-6.62	QP	Ver
5*	228.729	10.21	18.92	29.13	46.00	-16.87	QP	Ver
6*	532.945	7.23	28.10	35.33	46.00	-10.67	QP	Ver



Above 1G Radiation Spurious

Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
Low Channel (902.2 MHz)							
1804.02	56.50	-12.59	43.91	74.00	-30.09	PK	Vertical
1804.02	45.68	-12.59	33.09	54.00	-20.91	AV	Vertical
1804.09	55.54	-12.59	42.95	74.00	-31.05	PK	Horizontal
1804.09	45.62	-12.59	33.03	54.00	-20.97	AV	Horizontal
2706.13	55.10	-10.65	44.45	74.00	-29.55	PK	Vertical
2706.13	45.55	-10.65	34.90	54.00	-19.10	AV	Vertical
2706.31	54.49	-10.65	43.84	74.00	-30.16	PK	Horizontal
2706.31	45.33	-10.65	34.68	54.00	-19.32	AV	Horizontal
3608.49	56.60	-8.73	47.87	74.00	-26.13	PK	Vertical
3608.49	48.15	-8.73	39.42	54.00	-14.58	AV	Vertical
3608.36	56.97	-8.73	48.24	74.00	-25.76	PK	Horizontal
3608.36	47.80	-8.73	39.07	54.00	-14.93	AV	Horizontal
4510.55	60.81	-7.82	52.99	74.00	-21.01	PK	Vertical
4510.55	50.23	-7.82	42.41	54.00	-11.59	AV	Vertical
4510.52	60.97	-7.82	53.15	74.00	-20.85	PK	Horizontal
4510.52	50.59	-7.82	42.77	54.00	-11.23	AV	Horizontal
Middle Channel (915 MHz)							
1829.58	55.26	-12.59	42.67	74.00	-31.33	PK	Vertical
1829.58	45.18	-12.59	32.59	54.00	-21.41	AV	Vertical
1829.70	55.15	-12.59	42.56	74.00	-31.44	PK	Horizontal
1829.70	46.66	-12.59	34.07	54.00	-19.93	AV	Horizontal
2744.68	54.46	-10.65	43.81	74.00	-30.19	PK	Vertical
2744.68	45.56	-10.65	34.91	54.00	-19.09	AV	Vertical
2744.67	54.85	-10.65	44.20	74.00	-29.80	PK	Horizontal
2744.67	45.12	-10.65	34.47	54.00	-19.53	AV	Horizontal
3659.53	56.61	-8.73	47.88	74.00	-26.12	PK	Vertical
3659.53	47.58	-8.73	38.85	54.00	-15.15	AV	Vertical
3659.52	57.73	-8.73	49.00	74.00	-25.00	PK	Horizontal
3659.52	48.27	-8.73	39.54	54.00	-14.46	AV	Horizontal
4574.69	60.84	-7.82	53.02	74.00	-20.98	PK	Vertical
4574.69	50.83	-7.82	43.01	54.00	-10.99	AV	Vertical
4574.73	60.42	-7.82	52.60	74.00	-21.40	PK	Horizontal
4574.73	50.01	-7.82	42.19	54.00	-11.81	AV	Horizontal
High Channel (927.8 MHz)							
1855.18	55.38	-12.59	42.79	74.00	-31.21	PK	Vertical



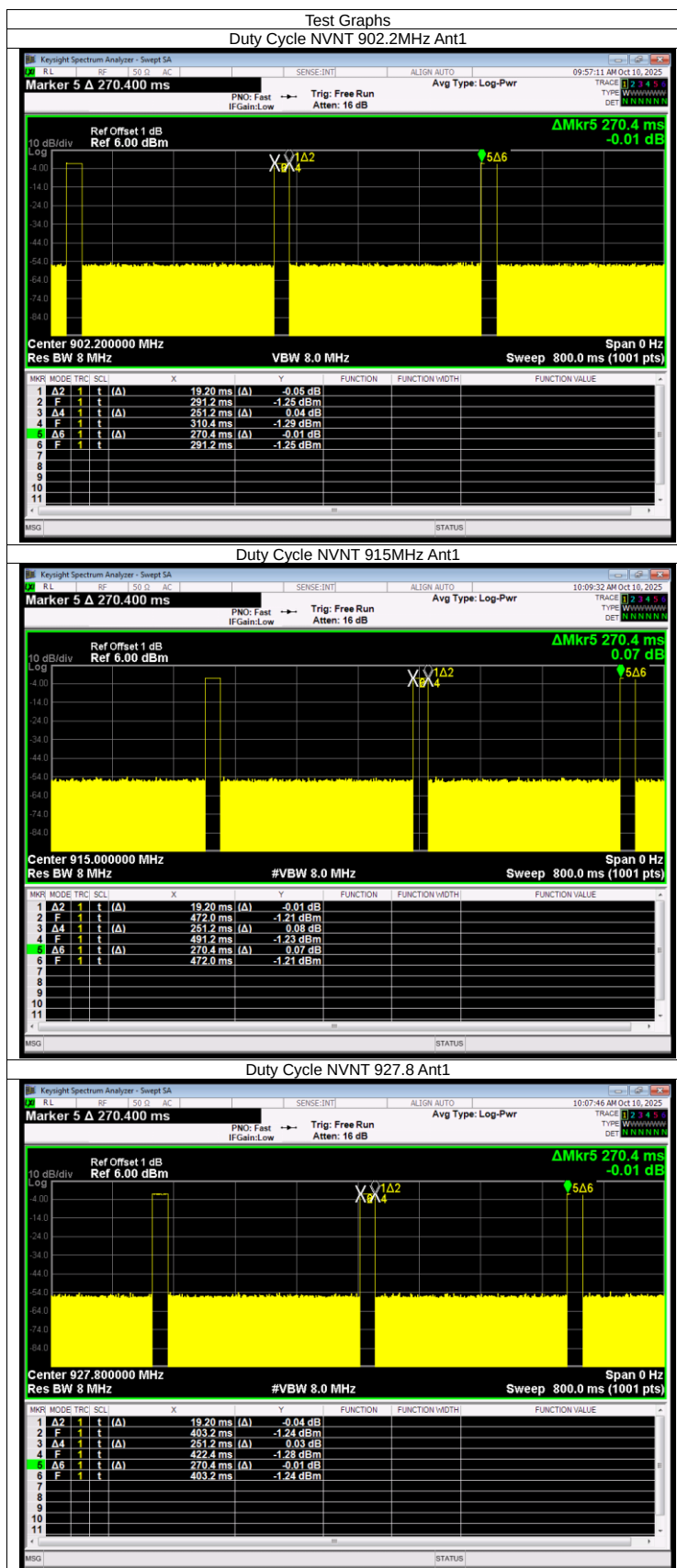
1855.18	45.52	-12.59	32.93	54.00	-21.07	AV	Vertical
1855.17	55.50	-12.59	42.91	74.00	-31.09	PK	Horizontal
1855.17	45.95	-12.59	33.36	54.00	-20.64	AV	Horizontal
2782.97	55.02	-10.65	44.37	74.00	-29.63	PK	Vertical
2782.97	45.45	-10.65	34.80	54.00	-19.20	AV	Vertical
2783.15	54.29	-10.65	43.64	74.00	-30.36	PK	Horizontal
2783.15	44.93	-10.65	34.28	54.00	-19.72	AV	Horizontal
3710.82	57.66	-8.73	48.93	74.00	-25.07	PK	Vertical
3710.82	46.99	-8.73	38.26	54.00	-15.74	AV	Vertical
3710.77	56.62	-8.73	47.89	74.00	-26.11	PK	Horizontal
3710.77	47.07	-8.73	38.34	54.00	-15.66	AV	Horizontal
4638.77	59.67	-7.82	51.85	74.00	-22.15	PK	Vertical
4638.77	50.38	-7.82	42.56	54.00	-11.44	AV	Vertical
4638.78	59.64	-7.82	51.82	74.00	-22.18	PK	Horizontal
4638.78	49.72	-7.82	41.90	54.00	-12.10	AV	Horizontal

Note:1. In frequency ranges 18~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.

Average measurement was not performed if peak level lower than average limit. No any other emissions level which are attenuated less than 20dB below the limit. The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.



Duty cycle





Condition	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	902.2	Ant1	7.1%	0.000
NVNT	915	Ant1	7.1%	0.000
NVNT	927.8	Ant1	7.1%	0.000

Note: Duty Factor= $20 \cdot \text{LOG}(\text{Ton}/\text{Tp})$



4.7 TEST RESULTS (BAND EDGE REQUIREMENTS)

Frequency (MHz)	Reading (dB μ V)	Corrected Factor (dB)	Result (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector	Polarity
902.00	5.38	32.65	38.03	74.00	-35.97	PK	Vertical
902.00	5.07	32.65	37.72	74.00	-36.28	PK	Horizontal
928.00	6.14	33.29	39.43	74.00	-34.57	PK	Vertical
928.00	6.40	33.29	39.69	74.00	-34.31	PK	Horizontal

4.8 TEST RESULTS (EIRP REQUIREMENTS)

Frequency (MHz)	Meter Reading (dB μ V/m)	Detector	Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Polar
902.20	56.00	PK	32.75	88.75	94.00	-5.25	H
902.20	58.62	PK	32.75	91.37	94.00	-2.63	V
915.00	54.69	PK	32.86	87.55	94.00	-6.45	H
915.00	56.97	PK	32.86	89.83	94.00	-4.17	V
927.80	55.17	PK	33.12	88.29	94.00	-5.71	H
927.80	58.01	PK	33.12	91.13	94.00	-2.87	V



5. BANDWIDTH TEST

5.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting : RBW= 30KHz, VBW $\geq$ RBW, Sweep time = Auto.

5.2 TEST SETUP

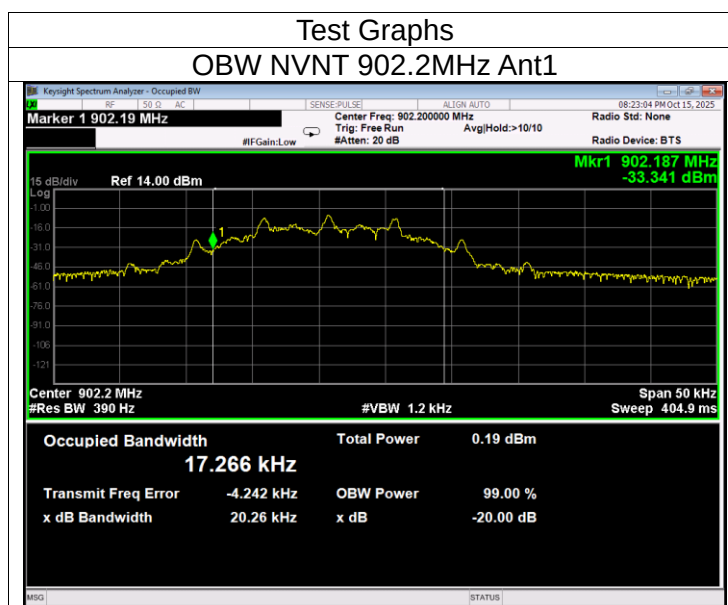


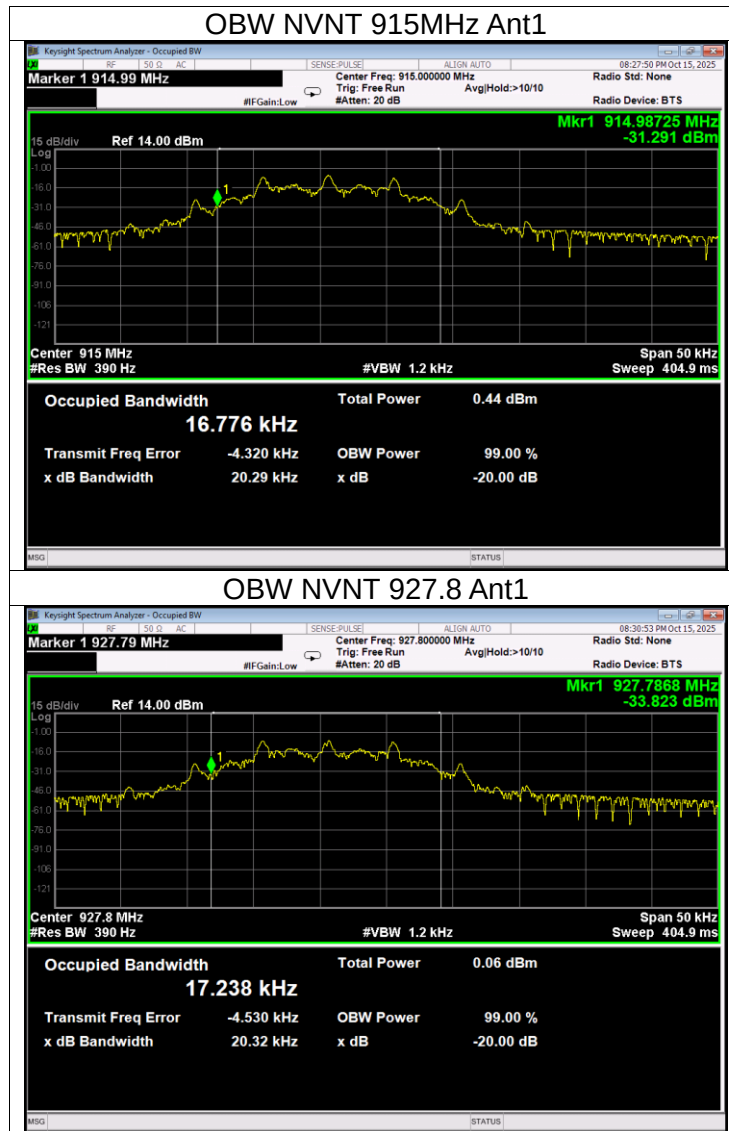
5.3 EUT OPERATION CONDITIONS

TX mode.

5.4 TEST RESULTS

Mode	Frequency (MHz)	Antenna	20dB BANDWIDTH (MHz)
ISM	902.2	Ant1	20.26
ISM	915	Ant1	20.29
ISM	927.8	Ant1	20.32







6. ANTENNA REQUIREMENT

6.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

6.2 EUT ANTENNA

The EUT antenna is Rod Antenna. It comply with the standard requirement.



APPENDIX I - MEASUREMENT PHOTOS

Note: Please see the attached RF_Test Setup photos for FCC Part15C.

※※※※※END OF THE REPORT※※※※※