



FCC Part 15C Test Report

FCC ID:2BRS4-NPSUGMDHB

Applicant: MOONS' Electric (Taicang) Co., Ltd.

Address: No.18, Yingang Road, Fuqiao Town, 215400 Taicang, Jiangsu Province, China

Manufacturer: MOONS' Electric (Taicang) Co., Ltd.

Address: No.18, Yingang Road, Fuqiao Town, 215400 Taicang, Jiangsu Province, China

EUT: Wireless Node Controller

Trade Mark: **MOONS'**

Model Number: NPSUGMDHB

Date of Receipt: Dec. 20, 2025

Test Date: Dec. 20, 2025 to Jan. 06, 2026

Date of Report: Jan. 06, 2026

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road Baolong Industrial Zone, Baolong Street, Longgang Shenzhen, Guangdong, China.

Applicable Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2020

Test Result: Pass

Report Number: DLE-251209017R

Prepared (Test Engineer):

Dimon Tan

Reviewer (Supervisor):

Jack Bu

Approved (Manager):

Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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**1.VERSION**

Report No.	Version	Description	Approved
DLE-251209017R	Rev.01	Initial issue of report	Jan. 06, 2026



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
FCC part 15.203/15.247 (c)	Antenna requirement	PASS	
ANSI C63.10:2020	Duty cycle	PASS	
FCC part 15.207	AC Power Line Conducted Emission	N/A ¹	
FCC part 15.247 (b)(3)	Conducted Peak Output Power	PASS	
FCC part 15.247 (a)(2)	6DB Occupied Bandwidth	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Band Edge	PASS	
FCC part 15.205/15.209	Spurious Emission	PASS	

NOTE:

(1)“N/A” denotes test is not applicable in this Test Report



2.1 TEST FACILITY

Shenzhen DL Testing Technology Co., Ltd.

Add. : 101-201, Building C, Shuanghuan, No.8, Baoqing Roa Baolong Industrial Zone, Baolong Street, Longgang Shenzhen, Guangdong, China.

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB ID.: CN0118

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended 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	3m camber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8MHz
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59°C

Remark: This sample has three antenna configurations, not affect RF circuit part, and test Spurious emissions in report show its no effect.

ANT 1:



ANT 2:



ANT 3:





3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Wireless Node Controller
Model No.:	NPSUGMDHB
Serial No.:	N/A
Model Different:	N/A
Hardware Version:	N/A
Software Version:	N/A
Sample(s) Status:	Engineer sample
Operation Frequency:	904MHz~926MHz
Channel Numbers:	12
Modulation Type:	OQFSK
Antenna Type:	External antenna
Antenna gain:	ANT1: 2.94dBi ANT2: 3.31dBi ANT3: 1.53dBi
Ratings:	Input: 12-30V---



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	904 MHz	2	906 MHz	3	908 MHz	4	910 MHz
5	912 MHz	6	914 MHz	7	916 MHz	8	918 MHz
9	920 MHz	10	922 MHz	11	924 MHz	12	926 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	904MHz
The middle channel	914MHz
The Highest channel	926MHz

3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	
Test Software	Automatically transmit after burning into the firmware.
Power level setup	Default

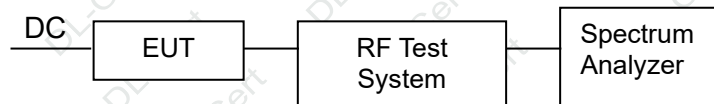


3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Emission



Conducted Spurious



3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Wireless Node Controller	MOONS'	NPSUGMDHB	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

**3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS****Radiation test, Band-edge test and 6db bandwidth test equipment**

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Oct. 25, 2025	Oct. 24, 2026
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Oct. 25, 2025	Oct. 24, 2026
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Oct. 25, 2025	Oct. 24, 2026
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Oct. 25, 2025	Oct. 24, 2026
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Oct. 25, 2025	Oct. 24, 2026
6	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Oct. 25, 2025	Oct. 24, 2026
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Oct. 25, 2025	Oct. 24, 2026
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Oct. 25, 2025	Oct. 24, 2026
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Oct. 25, 2025	Oct. 24, 2026
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Oct. 25, 2025	Oct. 24, 2026
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Oct. 25, 2025	Oct. 24, 2026
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Oct. 25, 2025	Oct. 24, 2026
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Oct. 25, 2025	Oct. 24, 2026
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Oct. 25, 2025	Oct. 24, 2026
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Nov. 01, 2024	Oct. 31, 2026
16	D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 01, 2024	Oct. 31, 2026
17	Power meter	KEYSIGHT	N1912AP	926431	Nov. 01, 2024	Oct. 31, 2026

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	ChengYu	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
2	EMI Receiver	R&S	ESR	101421	Oct. 25, 2025	Oct. 24, 2026
3	LISN	R&S	ENV216	102417	Oct. 25, 2025	Oct. 24, 2026
4	843 Cable 1#	ChengYu	CE Cable	001	Oct. 25, 2025	Oct. 24, 2026

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ_EMCC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ_EMCC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2020
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quas -peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

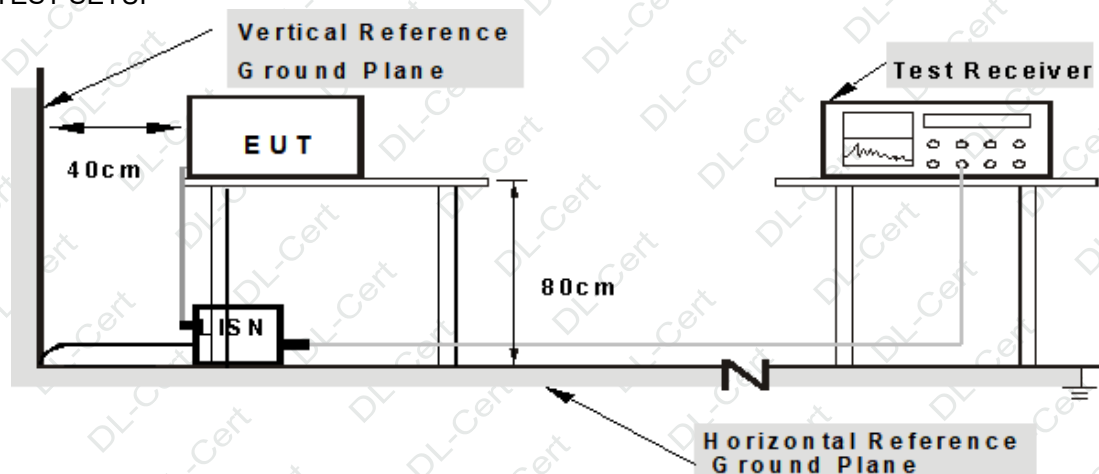
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 TEST SETUP



- Note: 1. Support units were connected to second LISN.**
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

4.1.5 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.

TEST RESULT

The EUT is powered by the DC only, the test item is not applicable.



4.2 RADIATED EMISSION MEASUREMENT

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	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Field Strength (microvolts/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
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



4.2.2 TEST PROCEDURE

- The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations 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 then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.
- For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Note:

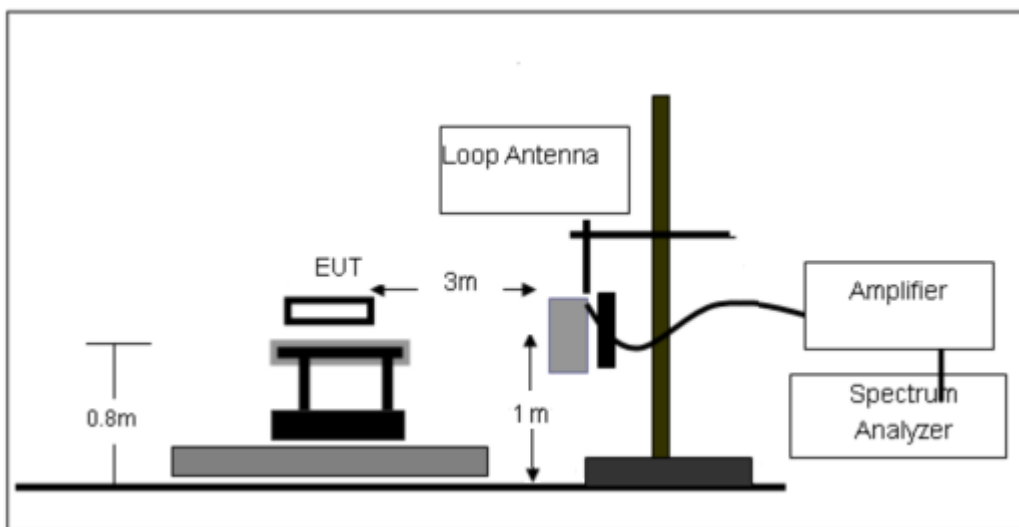
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

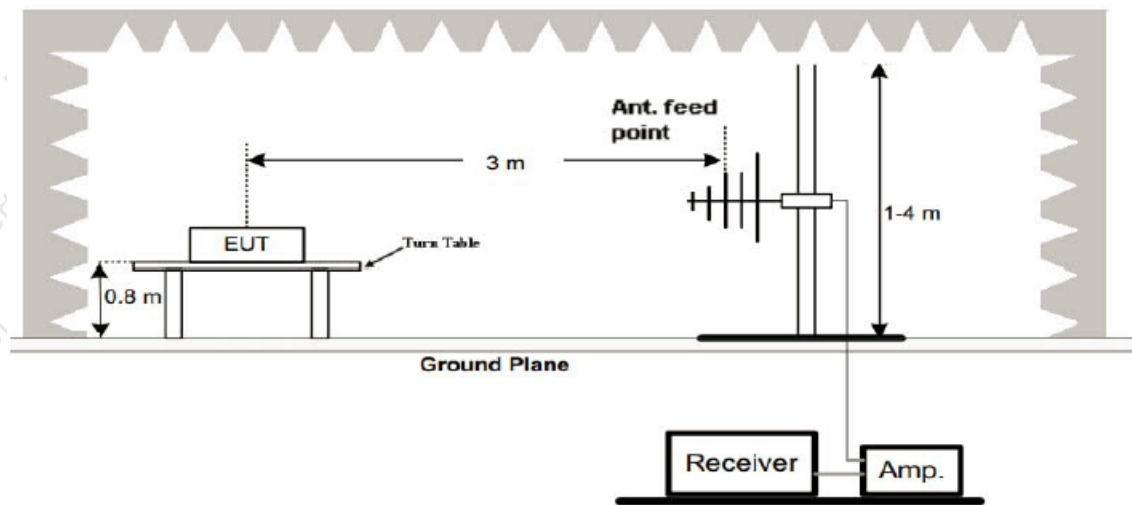
4.2.4 TEST SETUP

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

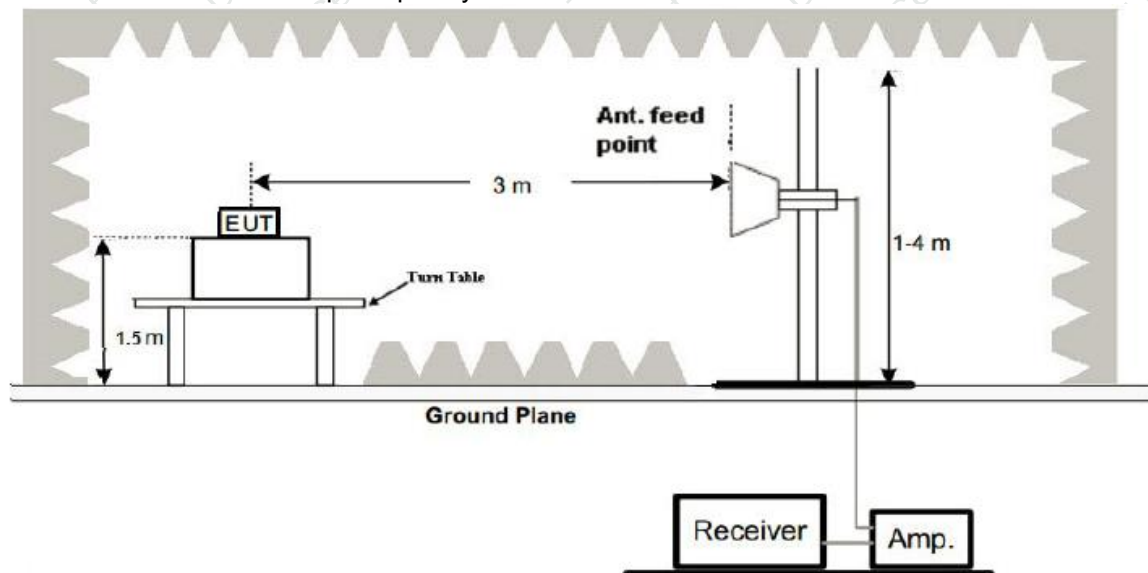




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



4.2.5 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.

4.2.6 TEST RESULTS (Between 9KHz – 30 MHz)

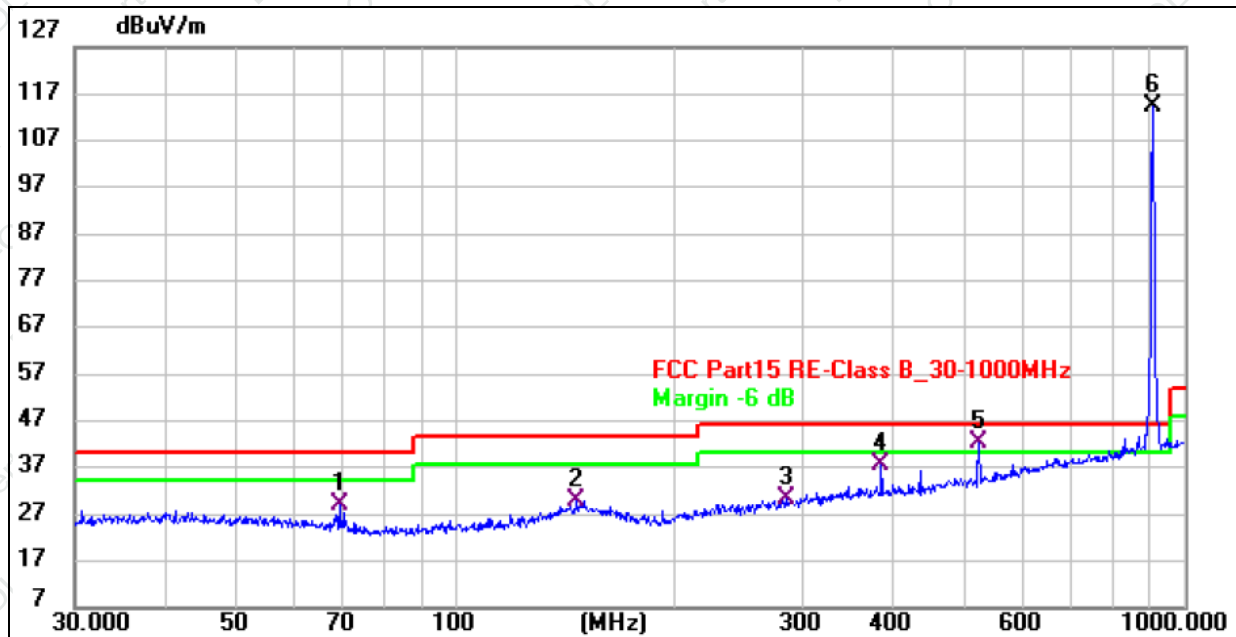
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.



Between 30MHz – 1GHz

ANT1

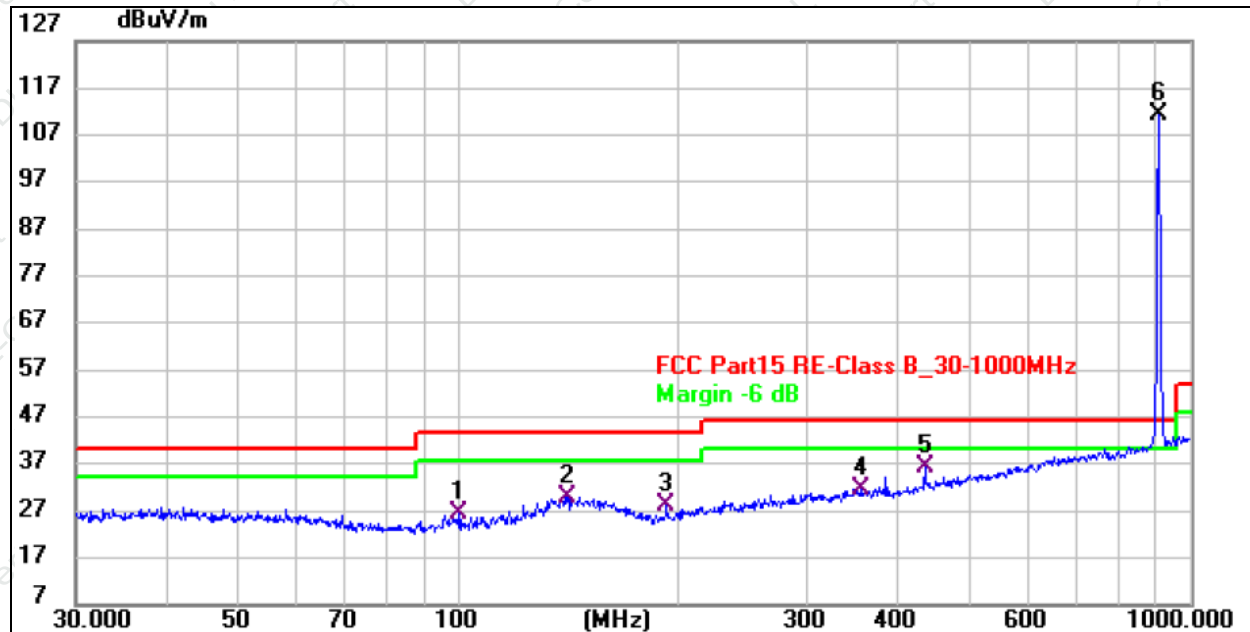
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test Mode :	TX - 904MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	69.3568	42.44	-13.21	29.23	40.00	-10.77	QP	100	51	P	
2	146.8876	38.75	-8.96	29.79	43.50	-13.71	QP	100	45	P	
3	283.9791	38.74	-8.41	30.33	46.00	-15.67	QP	100	350	P	
4	383.9318	44.61	-6.86	37.75	46.00	-8.25	QP	100	327	P	
5 !	522.7180	45.82	-3.45	42.37	46.00	-3.63	QP	100	45	P	
6 *	906.4823	111.48	2.86	114.34	N/A	N/A					Fundamental



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test Mode :	TX - 904MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	99.8777	39.31	-12.87	26.44	43.50	-17.06	QP	100	37	P	
2	140.8350	39.27	-9.32	29.95	43.50	-13.55	QP	100	302	P	
3	192.4185	40.13	-11.97	28.16	43.50	-15.34	QP	100	72	P	
4	354.1831	38.95	-7.18	31.77	46.00	-14.23	QP	100	106	P	
5	434.0650	42.12	-5.58	36.54	46.00	-9.46	QP	100	72	P	
6 *	906.4823	108.35	2.86	111.21	N/A	N/A					Fundamental

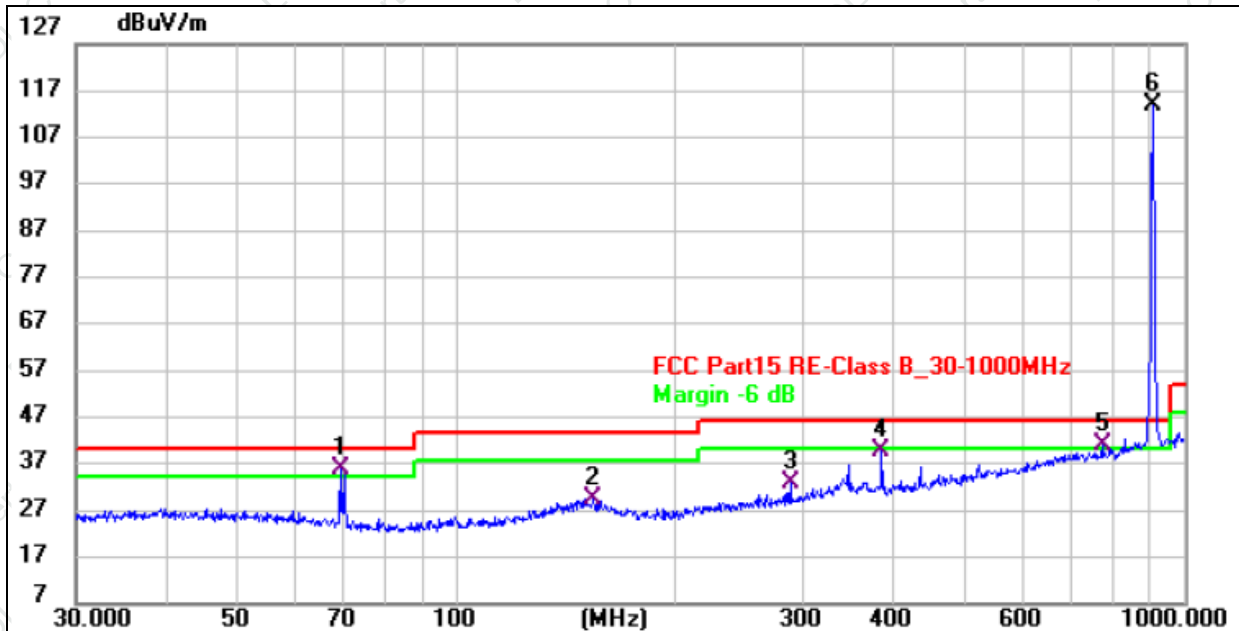
Remarks:

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. The test data shows only the worst case TX - 904MHz.



ANT2

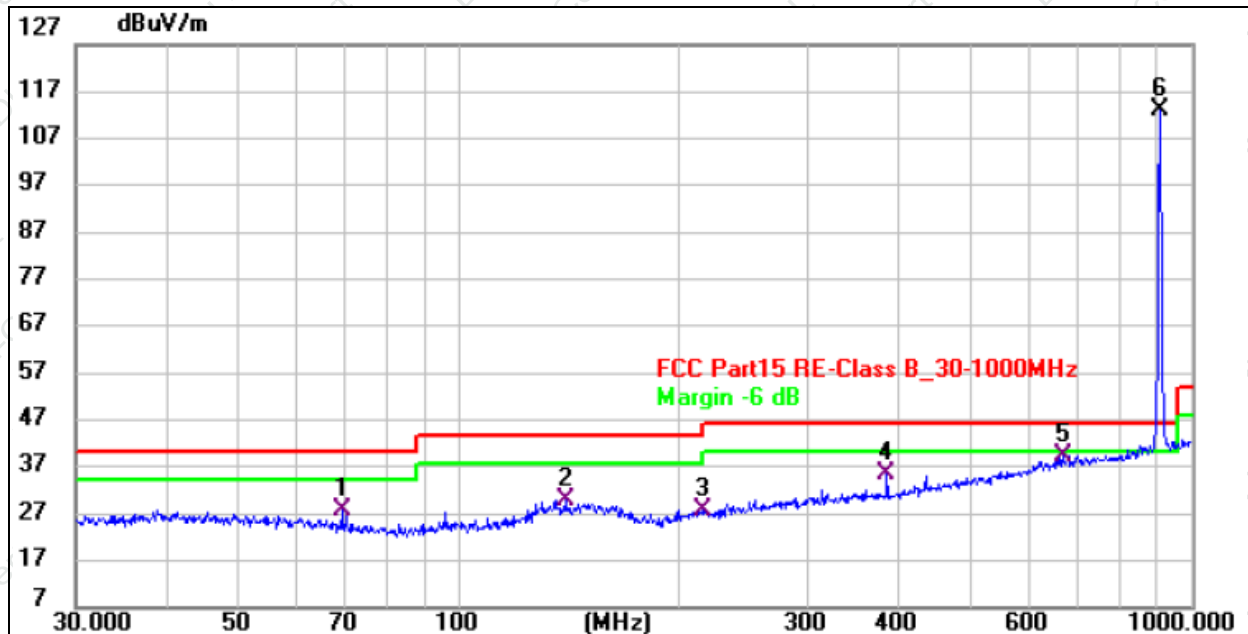
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test Mode :	TX - 904MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 !	69.3568	48.99	-13.21	35.78	40.00	-4.22	QP	100	38	P	
2	154.2785	38.54	-9.10	29.44	43.50	-14.06	QP	100	89	P	
3	287.9904	41.40	-8.29	33.11	46.00	-12.89	QP	100	210	P	
4	383.9318	46.69	-6.86	39.83	46.00	-6.17	QP	100	325	P	
5 !	771.4485	40.28	0.81	41.09	46.00	-4.91	QP	100	106	P	
6 *	906.4824	111.01	2.86	113.87	N/A	N/A					Fundamental



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test Mode :	TX - 904MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	69.3568	41.09	-13.21	27.88	40.00	-12.12	QP	100	349	P	
2	139.8508	39.35	-9.39	29.96	43.50	-13.54	QP	100	194	P	
3	215.2678	38.50	-10.55	27.95	43.50	-15.55	QP	100	16	P	
4	383.9318	42.16	-6.86	35.30	46.00	-10.70	QP	100	286	P	
5	668.1422	39.54	-0.16	39.38	46.00	-6.62	QP	100	234	P	
6 *	906.4824	110.14	2.86	113.00	N/A	N/A					Fundamental

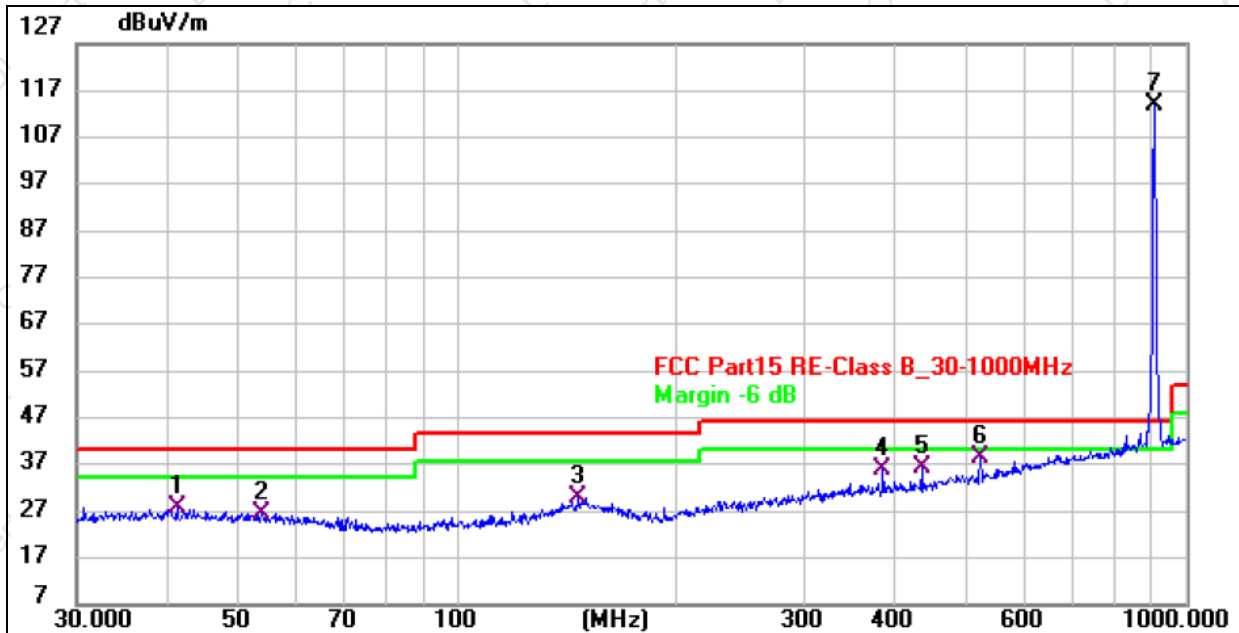
Remarks:

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. The test data shows only the worst case TX - 904MHz.



ANT3

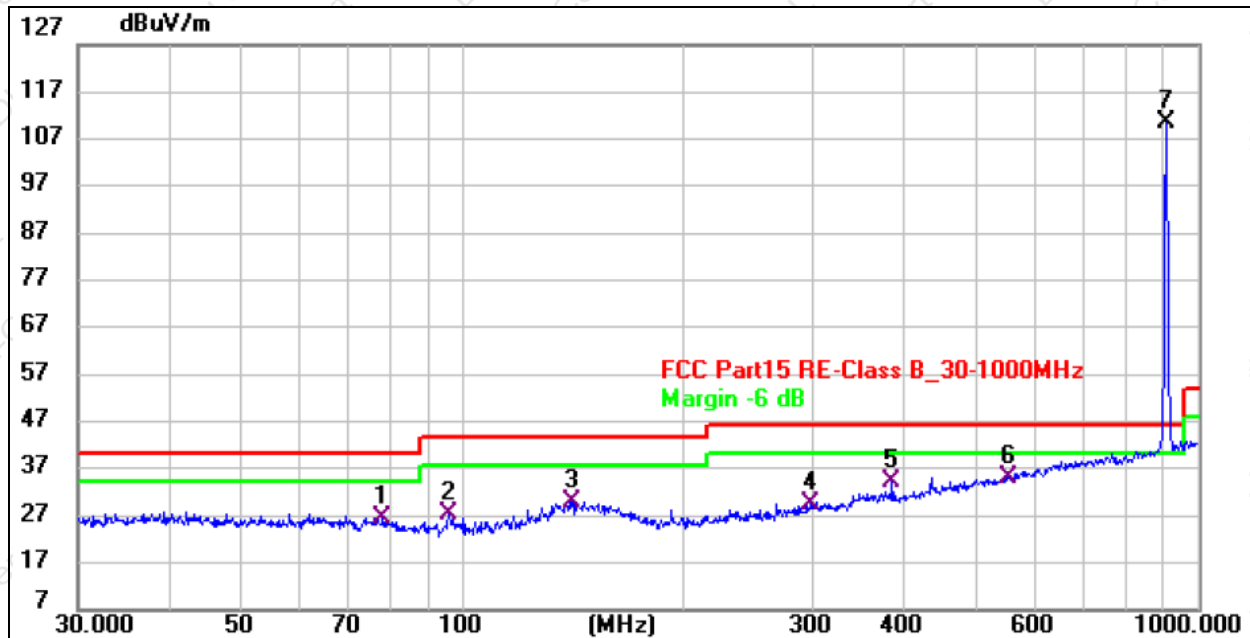
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test Mode :	TX - 904MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	41.2764	38.51	-10.86	27.65	40.00	-12.35	QP	100	45	P	
2	53.8817	38.26	-11.67	26.59	40.00	-13.41	QP	100	66	P	
3	146.8874	38.75	-8.96	29.79	43.50	-13.71	QP	100	361	P	
4	383.9318	42.61	-6.86	35.75	46.00	-10.25	QP	100	327	P	
5	434.0650	41.80	-5.58	36.22	46.00	-9.78	QP	100	37	P	
6	522.7180	41.82	-3.45	38.37	46.00	-7.63	QP	100	103	P	
7 *	906.4823	110.98	2.86	113.84	N/A	N/A					Fundamental



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test Mode :	TX - 904MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	77.8653	40.24	-13.84	26.40	40.00	-13.60	QP	100	41	P	
2	96.0985	40.54	-13.29	27.25	43.50	-16.25	QP	100	110	P	
3	140.8350	39.27	-9.32	29.95	43.50	-13.55	QP	100	290	P	
4	298.2681	37.53	-8.01	29.52	46.00	-16.48	QP	100	271	P	
5	383.9318	40.86	-6.86	34.00	46.00	-12.00	QP	100	45	P	
6	554.8252	38.07	-2.85	35.22	46.00	-10.78	QP	100	100	P	
7 *	906.4823	107.85	2.86	110.71	N/A	N/A					Fundamental

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.The test data shows only the worst case TX - 904MHz.



ANT1: 1G-10G

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:904MHz									
V	1808.00	51.58	30.55	5.77	24.66	51.46	74.00	-22.54	PK
V	1808.00	43.69	30.55	5.77	24.66	43.57	54.00	-10.43	AV
V	2712.00	54.28	30.33	6.32	24.55	54.82	74.00	-19.18	PK
V	2712.00	43.34	30.33	6.32	24.55	43.88	54.00	-10.12	AV
V	3616.00	54.00	30.85	7.45	24.69	55.29	74.00	-18.71	PK
V	3616.00	43.82	30.85	7.45	24.69	45.11	54.00	-8.89	AV
V	4520.00	51.46	31.02	8.99	25.57	55.00	74.00	-19.00	PK
V	4520.00	43.50	31.02	8.99	25.57	47.04	54.00	-6.96	AV
H	1808.00	54.97	30.55	5.77	24.66	54.85	74.00	-19.15	PK
H	1808.00	43.95	30.55	5.77	24.66	43.83	54.00	-10.17	AV
H	2712.00	54.63	30.33	6.32	24.55	55.17	74.00	-18.83	PK
H	2712.00	43.19	30.33	6.32	24.55	43.73	54.00	-10.27	AV
H	3616.00	51.04	30.85	7.45	24.69	52.33	74.00	-21.67	PK
H	3616.00	43.27	30.85	7.45	24.69	44.56	54.00	-9.44	AV
H	4520.00	50.48	31.02	8.99	25.57	54.02	74.00	-19.98	PK
H	4520.00	43.35	31.02	8.99	25.57	46.89	54.00	-7.11	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:914MHz									
V	1828.00	50.25	30.55	5.77	24.66	50.13	74.00	-23.87	PK
V	1828.00	43.75	30.55	5.77	24.66	43.63	54.00	-10.37	AV
V	2742.00	50.81	30.33	6.32	24.55	51.35	74.00	-22.65	PK
V	2742.00	43.35	30.33	6.32	24.55	43.89	54.00	-10.11	AV
V	3656.00	54.30	30.85	7.45	24.69	55.59	74.00	-18.41	PK
V	3656.00	43.16	30.85	7.45	24.69	44.45	54.00	-9.55	AV
V	4570.00	50.27	31.02	8.99	25.57	53.81	74.00	-20.19	PK
V	4570.00	43.75	31.02	8.99	25.57	47.29	54.00	-6.71	AV
H	1828.00	53.94	30.55	5.77	24.66	53.82	74.00	-20.18	PK
H	1828.00	43.46	30.55	5.77	24.66	43.34	54.00	-10.66	AV
H	2742.00	54.62	30.33	6.32	24.55	55.16	74.00	-18.84	PK
H	2742.00	43.76	30.33	6.32	24.55	44.30	54.00	-9.70	AV
H	3656.00	50.52	30.85	7.45	24.69	51.81	74.00	-22.19	PK
H	3656.00	43.66	30.85	7.45	24.69	44.95	54.00	-9.05	AV
H	4570.00	51.07	31.02	8.99	25.57	54.61	74.00	-19.39	PK
H	4570.00	43.48	31.02	8.99	25.57	47.02	54.00	-6.98	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:926MHz									
V	1852.00	54.81	30.55	5.77	24.66	54.69	74.00	-19.31	PK
V	1852.00	43.28	30.55	5.77	24.66	43.16	54.00	-10.84	AV
V	2778.00	54.16	30.33	6.32	24.55	54.70	74.00	-19.30	PK
V	2778.00	43.93	30.33	6.32	24.55	44.47	54.00	-9.53	AV
V	3704.00	54.57	30.85	7.45	24.69	55.86	74.00	-18.14	PK
V	3704.00	43.45	30.85	7.45	24.69	44.74	54.00	-9.26	AV
V	4630.00	53.33	31.02	8.99	25.57	56.87	74.00	-17.13	PK
V	4630.00	43.15	31.02	8.99	25.57	46.69	54.00	-7.31	AV
H	1852.00	52.80	30.55	5.77	24.66	52.68	74.00	-21.32	PK
H	1852.00	43.60	30.55	5.77	24.66	43.48	54.00	-10.52	AV
H	2778.00	54.11	30.33	6.32	24.55	54.65	74.00	-19.35	PK
H	2778.00	43.30	30.33	6.32	24.55	43.84	54.00	-10.16	AV
H	3704.00	52.78	30.85	7.45	24.69	54.07	74.00	-19.93	PK
H	3704.00	43.80	30.85	7.45	24.69	45.09	54.00	-8.91	AV
H	4630.00	50.08	31.02	8.99	25.57	53.62	74.00	-20.38	PK
H	4630.00	43.21	31.02	8.99	25.57	46.75	54.00	-7.25	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



ANT2: 1G-10G

ANALYZER									
Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:904MHz									
V	1808.00	53.46	30.55	5.77	24.66	53.34	74.00	-20.66	PK
V	1808.00	43.57	30.55	5.77	24.66	43.45	54.00	-10.55	AV
V	2712.00	54.86	30.33	6.32	24.55	55.40	74.00	-18.60	PK
V	2712.00	43.15	30.33	6.32	24.55	43.69	54.00	-10.31	AV
V	3616.00	50.97	30.85	7.45	24.69	52.26	74.00	-21.74	PK
V	3616.00	43.98	30.85	7.45	24.69	45.27	54.00	-8.73	AV
V	4520.00	53.68	31.02	8.99	25.57	57.22	74.00	-16.78	PK
V	4520.00	43.20	31.02	8.99	25.57	46.74	54.00	-7.26	AV
H	1808.00	53.85	30.55	5.77	24.66	53.73	74.00	-20.27	PK
H	1808.00	43.35	30.55	5.77	24.66	43.23	54.00	-10.77	AV
H	2712.00	52.61	30.33	6.32	24.55	53.15	74.00	-20.85	PK
H	2712.00	43.73	30.33	6.32	24.55	44.27	54.00	-9.73	AV
H	3616.00	52.82	30.85	7.45	24.69	54.11	74.00	-19.89	PK
H	3616.00	43.50	30.85	7.45	24.69	44.79	54.00	-9.21	AV
H	4520.00	50.40	31.02	8.99	25.57	53.94	74.00	-20.06	PK
H	4520.00	43.63	31.02	8.99	25.57	47.17	54.00	-6.83	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:914MHz									
V	1828.00	53.23	30.55	5.77	24.66	53.11	74.00	-20.89	PK
V	1828.00	43.26	30.55	5.77	24.66	43.14	54.00	-10.86	AV
V	2742.00	54.84	30.33	6.32	24.55	55.38	74.00	-18.62	PK
V	2742.00	43.64	30.33	6.32	24.55	44.18	54.00	-9.82	AV
V	3656.00	54.33	30.85	7.45	24.69	55.62	74.00	-18.38	PK
V	3656.00	43.11	30.85	7.45	24.69	44.40	54.00	-9.60	AV
V	4570.00	50.23	31.02	8.99	25.57	53.77	74.00	-20.23	PK
V	4570.00	43.65	31.02	8.99	25.57	47.19	54.00	-6.81	AV
H	1828.00	50.12	30.55	5.77	24.66	50.00	74.00	-24.00	PK
H	1828.00	43.72	30.55	5.77	24.66	43.60	54.00	-10.40	AV
H	2742.00	52.32	30.33	6.32	24.55	52.86	74.00	-21.14	PK
H	2742.00	43.06	30.33	6.32	24.55	43.60	54.00	-10.40	AV
H	3656.00	50.83	30.85	7.45	24.69	52.12	74.00	-21.88	PK
H	3656.00	43.10	30.85	7.45	24.69	44.39	54.00	-9.61	AV
H	4570.00	50.31	31.02	8.99	25.57	53.85	74.00	-20.15	PK
H	4570.00	43.85	31.02	8.99	25.57	47.39	54.00	-6.61	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:926MHz									
V	1852.00	54.81	30.55	5.77	24.66	54.69	74.00	-19.31	PK
V	1852.00	43.13	30.55	5.77	24.66	43.01	54.00	-10.99	AV
V	2778.00	52.75	30.33	6.32	24.55	53.29	74.00	-20.71	PK
V	2778.00	43.93	30.33	6.32	24.55	44.47	54.00	-9.53	AV
V	3704.00	54.25	30.85	7.45	24.69	55.54	74.00	-18.46	PK
V	3704.00	43.47	30.85	7.45	24.69	44.76	54.00	-9.24	AV
V	4630.00	51.47	31.02	8.99	25.57	55.01	74.00	-18.99	PK
V	4630.00	43.62	31.02	8.99	25.57	47.16	54.00	-6.84	AV
H	1852.00	52.21	30.55	5.77	24.66	52.09	74.00	-21.91	PK
H	1852.00	43.38	30.55	5.77	24.66	43.26	54.00	-10.74	AV
H	2778.00	52.83	30.33	6.32	24.55	53.37	74.00	-20.63	PK
H	2778.00	43.62	30.33	6.32	24.55	44.16	54.00	-9.84	AV
H	3704.00	53.06	30.85	7.45	24.69	54.35	74.00	-19.65	PK
H	3704.00	43.07	30.85	7.45	24.69	44.36	54.00	-9.64	AV
H	4630.00	51.52	31.02	8.99	25.57	55.06	74.00	-18.94	PK
H	4630.00	43.56	31.02	8.99	25.57	47.10	54.00	-6.90	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



ANT3: 1G-10G

ANALOG TEST LOG									
Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:904MHz									
V	1808.00	54.15	30.55	5.77	24.66	54.03	74.00	-19.97	PK
V	1808.00	43.80	30.55	5.77	24.66	43.68	54.00	-10.32	AV
V	2712.00	52.05	30.33	6.32	24.55	52.59	74.00	-21.41	PK
V	2712.00	43.68	30.33	6.32	24.55	44.22	54.00	-9.78	AV
V	3616.00	54.20	30.85	7.45	24.69	55.49	74.00	-18.51	PK
V	3616.00	43.94	30.85	7.45	24.69	45.23	54.00	-8.77	AV
V	4520.00	51.12	31.02	8.99	25.57	54.66	74.00	-19.34	PK
V	4520.00	43.80	31.02	8.99	25.57	47.34	54.00	-6.66	AV
H	1808.00	53.48	30.55	5.77	24.66	53.36	74.00	-20.64	PK
H	1808.00	43.71	30.55	5.77	24.66	43.59	54.00	-10.41	AV
H	2712.00	51.79	30.33	6.32	24.55	52.33	74.00	-21.67	PK
H	2712.00	43.19	30.33	6.32	24.55	43.73	54.00	-10.27	AV
H	3616.00	53.67	30.85	7.45	24.69	54.96	74.00	-19.04	PK
H	3616.00	43.11	30.85	7.45	24.69	44.40	54.00	-9.60	AV
H	4520.00	52.18	31.02	8.99	25.57	55.72	74.00	-18.28	PK
H	4520.00	43.06	31.02	8.99	25.57	46.60	54.00	-7.40	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:914MHz									
V	1828.00	53.95	30.55	5.77	24.66	53.83	74.00	-20.17	PK
V	1828.00	43.59	30.55	5.77	24.66	43.47	54.00	-10.53	AV
V	2742.00	50.07	30.33	6.32	24.55	50.61	74.00	-23.39	PK
V	2742.00	43.38	30.33	6.32	24.55	43.92	54.00	-10.08	AV
V	3656.00	52.57	30.85	7.45	24.69	53.86	74.00	-20.14	PK
V	3656.00	43.25	30.85	7.45	24.69	44.54	54.00	-9.46	AV
V	4570.00	52.05	31.02	8.99	25.57	55.59	74.00	-18.41	PK
V	4570.00	43.87	31.02	8.99	25.57	47.41	54.00	-6.59	AV
H	1828.00	54.47	30.55	5.77	24.66	54.35	74.00	-19.65	PK
H	1828.00	43.47	30.55	5.77	24.66	43.35	54.00	-10.65	AV
H	2742.00	54.32	30.33	6.32	24.55	54.86	74.00	-19.14	PK
H	2742.00	43.00	30.33	6.32	24.55	43.54	54.00	-10.46	AV
H	3656.00	54.64	30.85	7.45	24.69	55.93	74.00	-18.07	PK
H	3656.00	43.89	30.85	7.45	24.69	45.18	54.00	-8.82	AV
H	4570.00	50.63	31.02	8.99	25.57	54.17	74.00	-19.83	PK
H	4570.00	43.21	31.02	8.99	25.57	46.75	54.00	-7.25	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:926MHz									
V	1852.00	50.66	30.55	5.77	24.66	50.54	74.00	-23.46	PK
V	1852.00	43.47	30.55	5.77	24.66	43.35	54.00	-10.65	AV
V	2778.00	50.26	30.33	6.32	24.55	50.80	74.00	-23.20	PK
V	2778.00	43.98	30.33	6.32	24.55	44.52	54.00	-9.48	AV
V	3704.00	54.74	30.85	7.45	24.69	56.03	74.00	-17.97	PK
V	3704.00	43.56	30.85	7.45	24.69	44.85	54.00	-9.15	AV
V	4630.00	53.52	31.02	8.99	25.57	57.06	74.00	-16.94	PK
V	4630.00	43.62	31.02	8.99	25.57	47.16	54.00	-6.84	AV
H	1852.00	53.20	30.55	5.77	24.66	53.08	74.00	-20.92	PK
H	1852.00	43.32	30.55	5.77	24.66	43.20	54.00	-10.80	AV
H	2778.00	53.91	30.33	6.32	24.55	54.45	74.00	-19.55	PK
H	2778.00	43.90	30.33	6.32	24.55	44.44	54.00	-9.56	AV
H	3704.00	52.69	30.85	7.45	24.69	53.98	74.00	-20.02	PK
H	3704.00	43.33	30.85	7.45	24.69	44.62	54.00	-9.38	AV
H	4630.00	54.90	31.02	8.99	25.57	58.44	74.00	-15.56	PK
H	4630.00	43.86	31.02	8.99	25.57	47.40	54.00	-6.60	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



5. POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	902-928	PASS

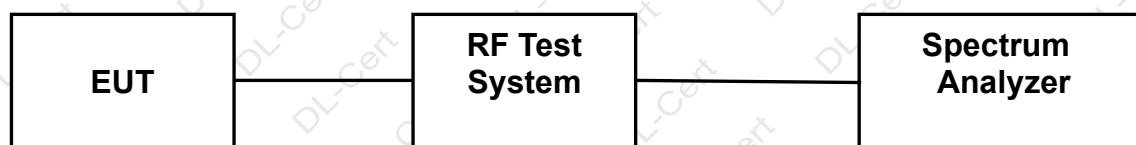
5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

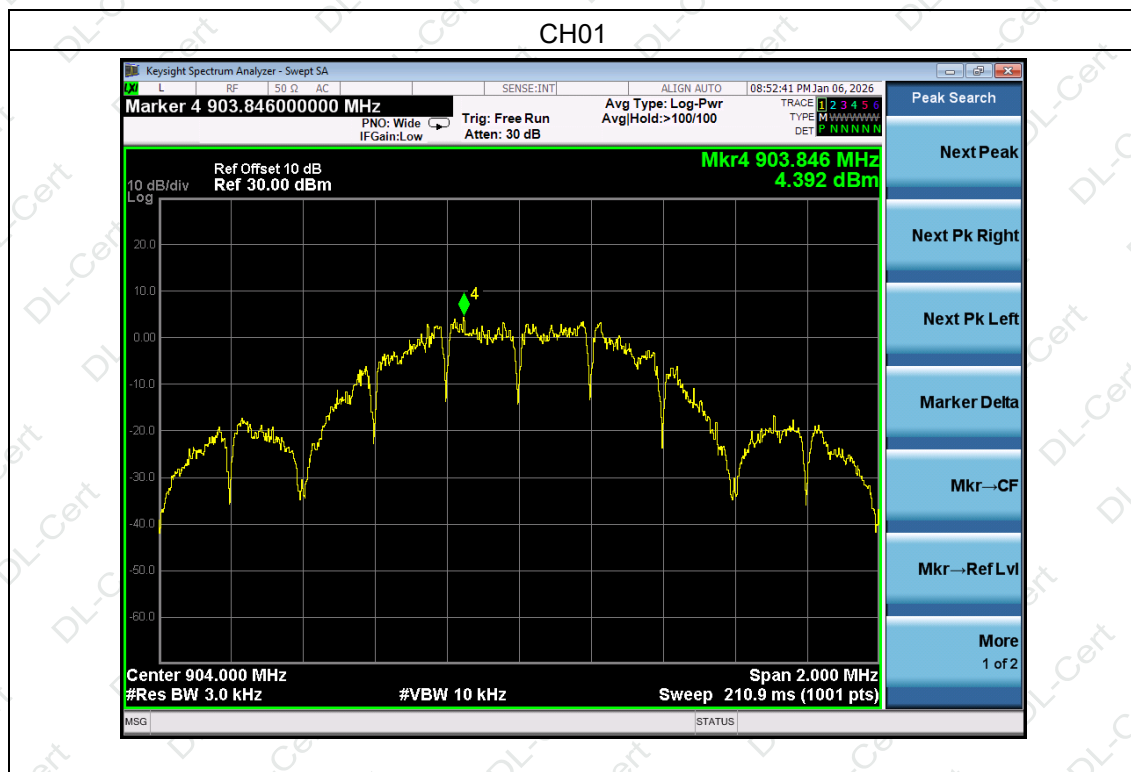
The EUT tested system was configured as the statements of 6.4 Unless otherwise a special operating condition is specified in the follows during the testing.



5.6 TEST RESULT

Temperature :	26°C	Relative Humidity :	54%
Test Mode :	OQPSK	Test Voltage :	DC 12V

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
904 MHz	4.392	8	PASS
914 MHz	4.328	8	PASS
926 MHz	3.917	8	PASS





CH06



CH12





6. 6DB OCCUPIED BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB Occupied Bandwidth)	902-928	PASS

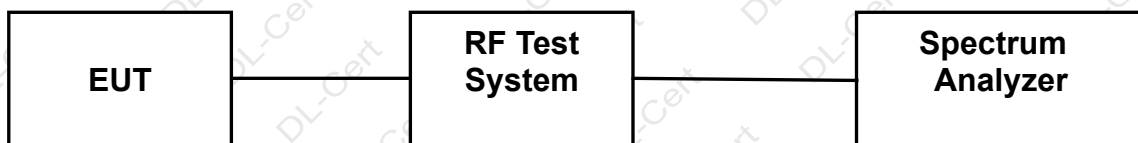
6.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

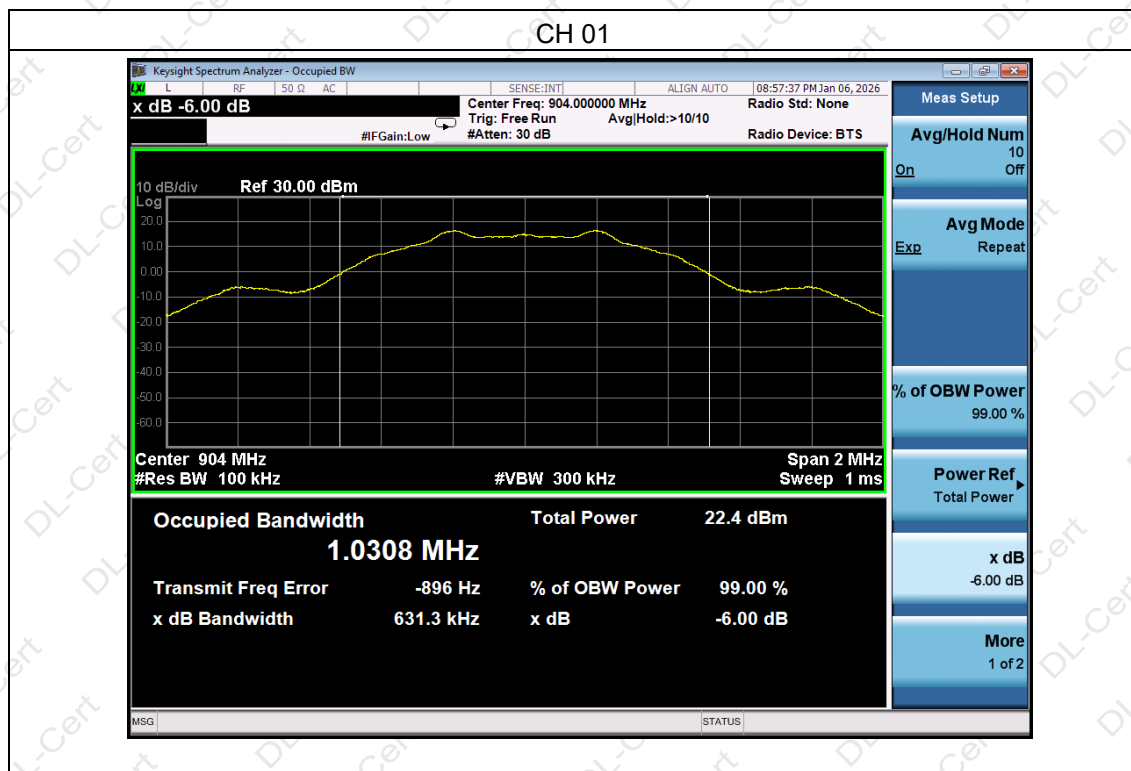
The EUT tested system was configured as the statements of 7.4 Unless otherwise a special operating condition is specified in the follows during the testing.



6.6 TEST RESULT

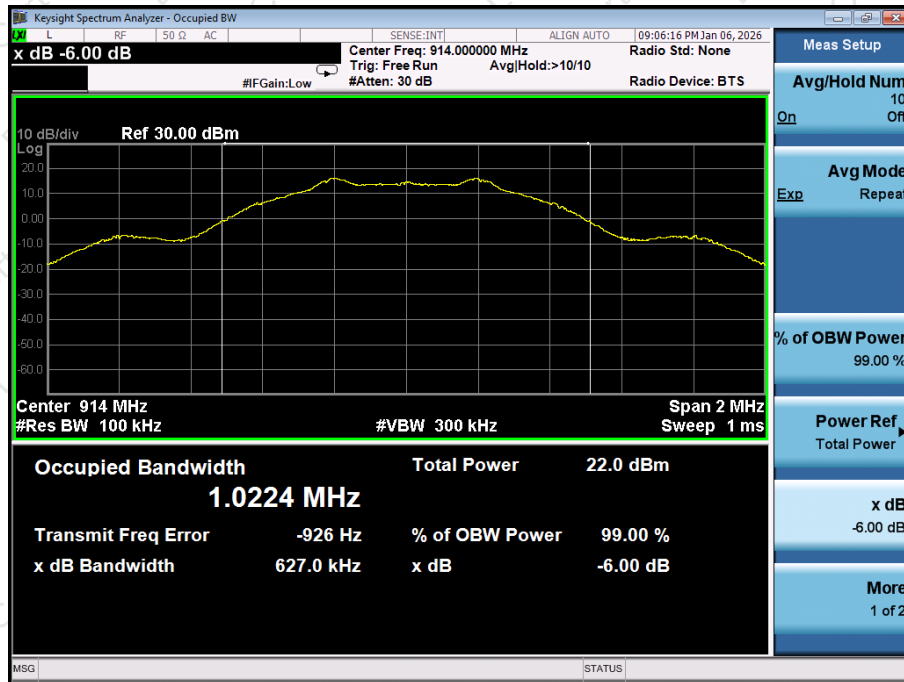
Temperature :	26°C	Relative Humidity :	54%
Test Mode :	OQPSK	Test Voltage :	DC 12V

Test channel	6dB Occupied Bandwidth (MHz)	Limit(KHz)	Result
Lowest	0.6313	>500	Pass
Middle	0.6270		
Highest	0.6237		





CH06



CH12



**7. PEAK OUTPUT POWER TEST**

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	902-928	PASS

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP**7.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 8.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULT

Temperature :	26°C	Relative Humidity :	54%
Test Mode :	OQPSK	Test Voltage :	DC 12V

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	20.91	30.00	Pass
Middle	20.84		
Highest	20.75		



8. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

8.1 APPLICABLE STANDARD

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.

8.2 TEST PROCEDURE

A. Reference level measurement, establish a reference level by using the following procedure:

- Set instrument center frequency to FHSS channel center frequency.
- Set the span to ≥ 1.5 times the 20dB bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

B. Emission level measurement, establish an emission level by using the following procedure:

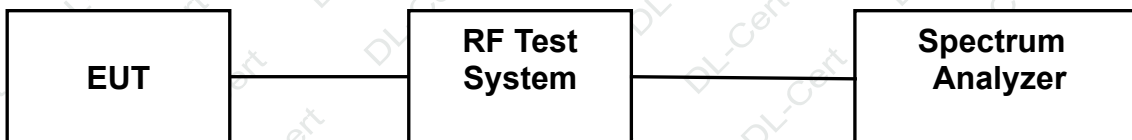
- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

8.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



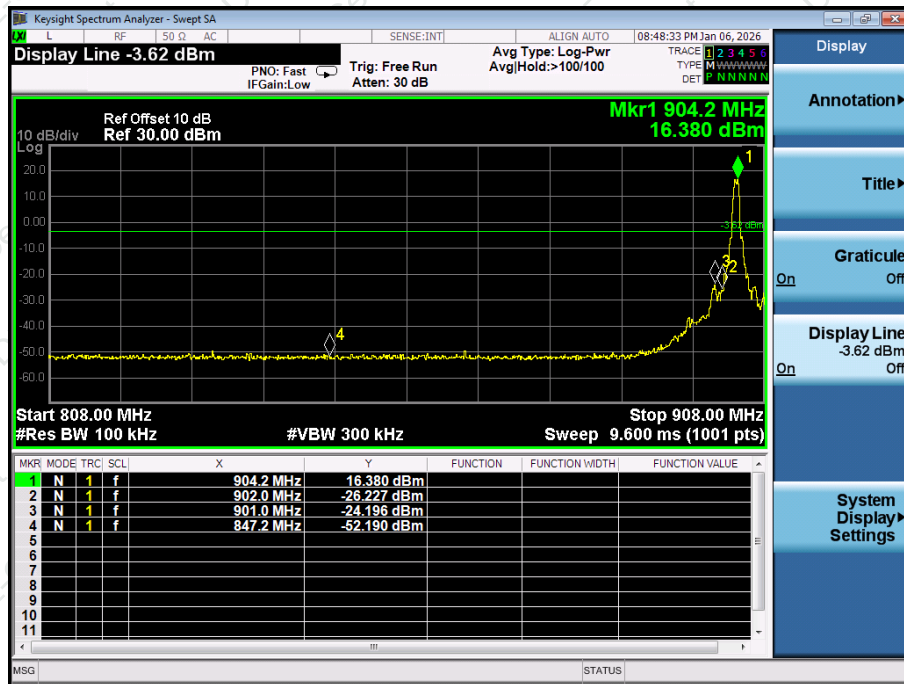
8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 9.4 Unless otherwise a special operating condition is specified in the follows during the testing.

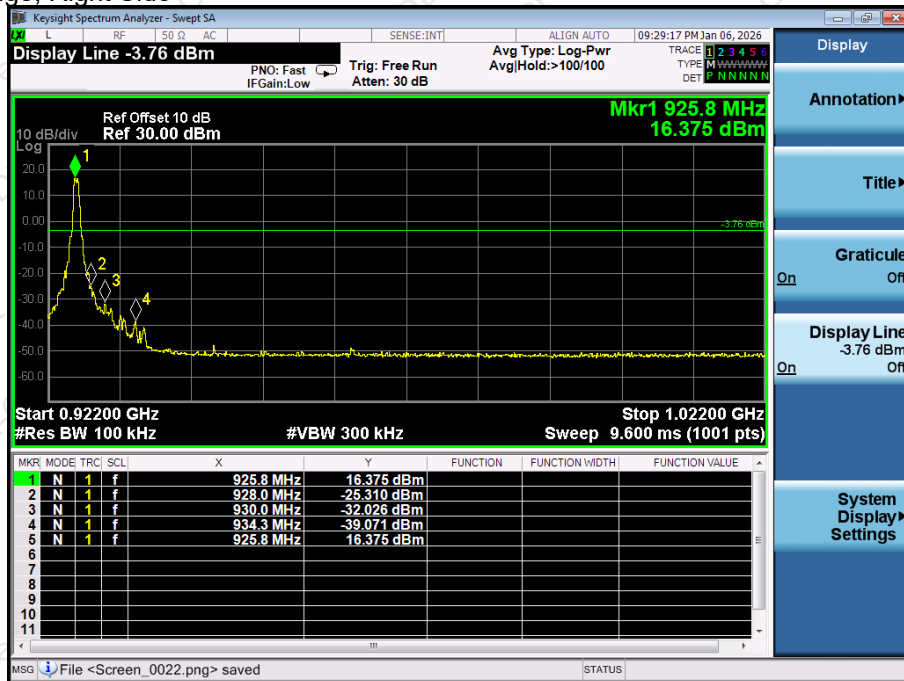


8.6 TEST RESULTS

Band Edge, Left Side



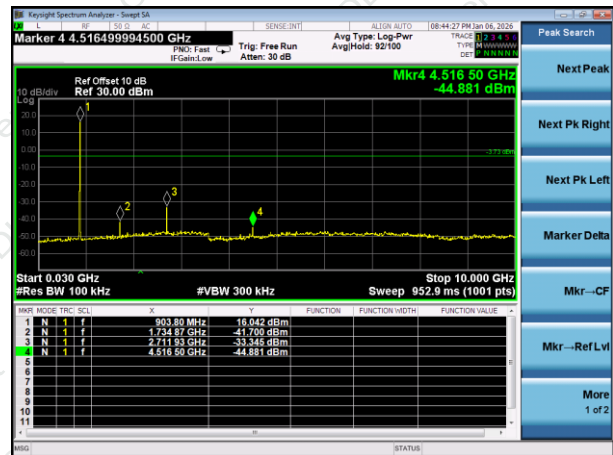
Band Edge, Right Side



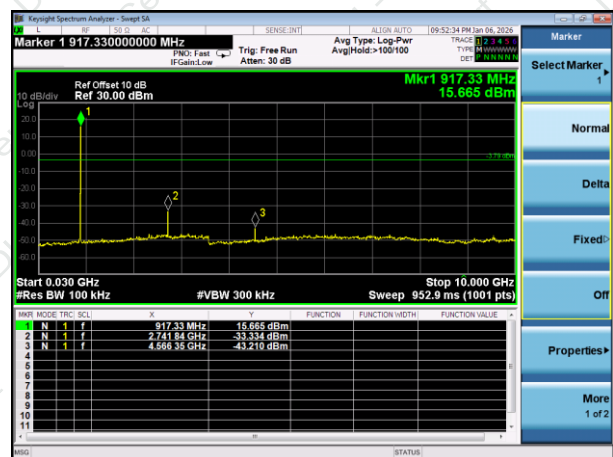


Conducted spurious emissions:

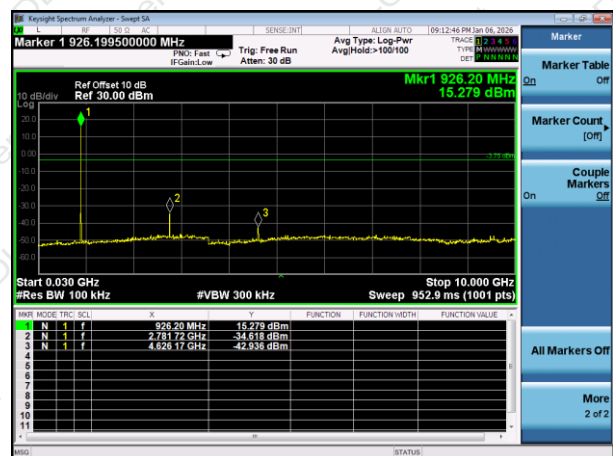
Lowest channel



Middle channel



Highest channel





9.DUTY CYCLE

Test Method:	ANSI C63.10:2020
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9.1 APPLIED PROCEDURES / LIMIT

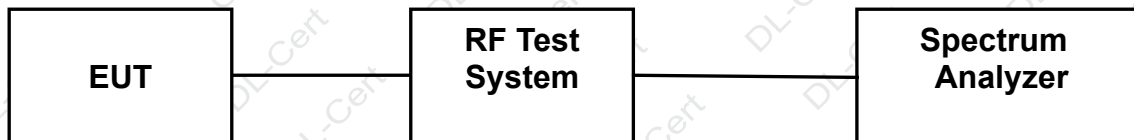
Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
 - Set the center frequency of the instrument to the center frequency of the transmission.
 - Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
 - Set $VBW \geq RBW$. Set detector = peak or average.
 - The zero-span measurement method shall not be used unless both RBW and VBW are $\{>\}50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

9.2 DEVIATION FROM STANDARD

No deviation.

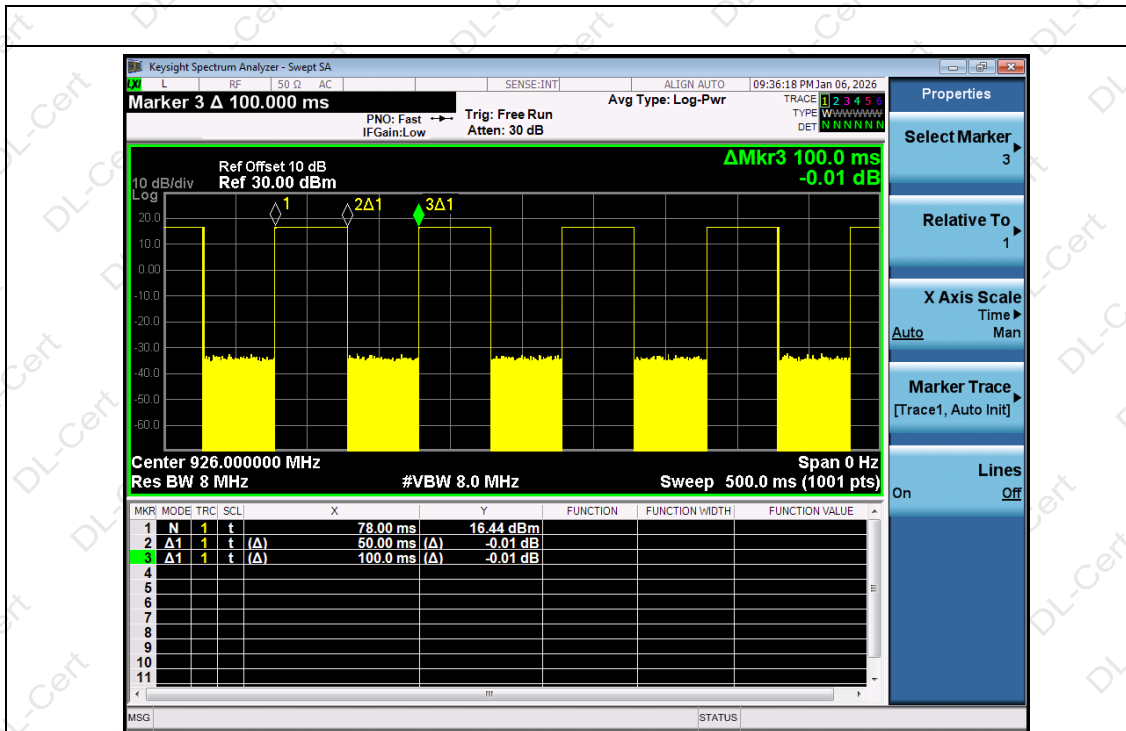
9.3 TEST SETUP





9.4 TEST RESULTS

Frequency (MHz)	Duty Cycle (%)	Result
2402	50.00	Pass



Note: All channel have been tested, and the report only reflects the worst case data.

Duty Cycle = $\text{Ton} / \text{Total} \times 100\%$

Duty Cycle Correction Factor = $10 \log (1/\text{Duty Cycle})$

**10.ANTENNA REQUIREMENT**

Standard requirement:	FCC Part15 C Section 15.203 /247(b)(4)
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(b)(4) requirement: (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
EUT Antenna:	
The antenna 1 is External Antenna, the antenna gain is 2.94dBi, The antenna 2 is External Antenna, the antenna gain is 3.31dBi, The antenna 3 is External Antenna, the antenna gain is 1.53dBi, the best case gain of the antennas is 3.31 dBi, reference to the appendix II for details	



11. TEST SETUP PHOTO

Reference to the appendix I for details.

12. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

***** END OF REPORT *****