



# FCC Test Report

Report No: FCS202504263W01

## Issued for

Applicant:	ShenZhen Depusheng Electronics CO.,LTD
Address:	406A-22, Building 2, Baolong Factory Area, Anbo Technology, No. 2, Baolong 4th Road, Baolong Community, Baolong Street, Longgang District, Shenzhen
Product Name:	Wireless microphone
Brand Name:	N/A
Model Name:	DX4
Series Model:	R1, R2, R3, R4, R5, T2, T4, T5, T6, X2, X4, T118, R7, DX7, DX7-S, LK1, LK2, LK4, S1, S2, S4, S5, T9, DR20, Q6, Q7, DL502, MX-R42, R4-PRO, DF204
FCC ID:	2A57K-DX4
<p>Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901    Fax:769-27280901    <a href="http://www.fcs-lab.com">http://www.fcs-lab.com</a></p>	

## TEST RESULT CERTIFICATION

Applicant's Name.....: ShenZhen Depusheng Electronics CO.,LTD  
Address.....: 406A-22, Building 2, Baolong Factory Area, Anbo Technology, No. 2, Baolong 4th Road, Baolong Community, Baolong Street, Longgang District, Shenzhen  
Manufacturer's Name.....: ShenZhen Depusheng Electronics CO.,LTD  
Address.....: 406A-22, Building 2, Baolong Factory Area, Anbo Technology, No. 2, Baolong 4th Road, Baolong Community, Baolong Street, Longgang District, Shenzhen

### Product Description

Product Name.....: Wireless microphone  
Brand Name .....: N/A  
Model Name.....: DX4

Series Model.....: R1, R2, R3, R4, R5, T2, T4, T5, T6, X2, X4, T118, R7, DX7, DX7-S, LK1, LK2, LK4, S1, S2, S4, S5, T9, DR20, Q6, Q7, DL502, MX-R42, R4-PRO, DF204

Test Standards.....: FCC Rules and Regulations Part 15 Subpart C section 15.236  
Test Procedure.....: ANSI C63.10:2013

This device described above has been tested FCS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date (s) of performance of tests.: April 15, 2025 ~ May 22, 2025

Date of Issue.....: May 22, 2025

Test Result.....: Pass

Tested by .....



(Scott Shen)

Reviewed by .....



(Duke Qian)

Approved by .....



(Jack Wang)

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### Revision History

Rev.	Issue Date	Effect Page	Contents
00	May 22, 2025	N/A	Initial Issue

## 1. SUMMARY OF TEST RESULTS

FCC Part 15 Subpart C section 15.236			
Standard Section	Test Item	Judgment	Remark
FCC Part 15.236(d)	Maximum Radiated Power	PASS	--
FCC Part 15.236(f)(2)	Occupied Bandwidth	PASS	--
FCC Part 15.236(g)	Necessary bandwidth	PASS	--
FCC Part 15.236(f)(3)	Frequency stability	PASS	--
FCC Part 15.236(g)	Emission within the band and outside this band	PASS	--
FCC Part 207(a)	Conducted Emission	N/A	--

### NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) All tests are according to ANSI C63.10:2013

## 1.1 TEST FACTORY

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-0769-27280901
Fax:	+86-0769-27280901
FCC Test Firm Registration Number:	514908
Designation number:	CN0127
A2LA accreditation number:	5545.01
ISED Number:	25801
CAB ID :	CN0097

## 1.2 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	RF output power, conducted	$\pm 0.71\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.98\text{ dB}$
3	Conducted Emission (9KHz-150KHz)	$\pm 4.13\text{ dB}$
4	Conducted Emission (150KHz-30MHz)	$\pm 4.74\text{ dB}$
5	All emissions, radiated (9KHz -30MHz)	$\pm 3.1\text{ dB}$
6	All emissions, radiated(<1G) 30MHz-1000MHz	$\pm 3.2\text{ dB}$
7	All emissions, radiated (1GHz -18GHz)	$\pm 3.66\text{ dB}$
8	All emissions, radiated (18GHz -40GHz)	$\pm 4.31\text{ dB}$
9	Power Spectral Density	$\pm 0.48\text{ dB}$
10	Occupied bandwidth	$\pm 0.3\text{ dB}$

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Wireless microphone
Brand Name	N/A
Model Name	DX4
Series Model	R1, R2, R3, R4, R5, T2, T4, T5, T6, X2, X4, T118, R7, DX7, DX7-S, LK1, LK2, LK4, S1, S2, S4, S5, T9, DR20, Q6, Q7, DL502, MX-R42, R4-PRO, DF204
Model Difference	PCB board, structure and internal of these model(s) are the same, only differing in Model name and color. So no additional models were tested
Channel List	Please refer to the Note 2.
Operation frequency	CH : 553.20-565.80MHz
Modulation Type	FM
Antenna Type	Spring antenna
Antenna Gain (dBi)	0dBi
Power Supply	Adapter MODEL: EY-08 50/60Hz0.23A+ 48VDC 300mA+ 12VDC 500mA INPUT: 100-240VAC OUTPUT: ± 15VDC 1000mA
Battery	DC 3V
Hardware version number	V1.0
Software version number	V1.0
Connecting I/O Port(s)	Please refer to the User's Manual

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

## 2. Channel List

Channel			
Channel	Frequency (MHz)		
Low	553.20		
High	565.80		

Ant.	Atnenna Brand	Antenna Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Spring antenna	N/A	0	N/A

## 2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The test The fixed frequency prototype is used for manual operation was used to control EUT work in continuous TX mode, and select test channel,

Wireless mode as below table, the following operating modes were applied for the related test items. All test modes were tested, only the result of the worst case was recorded in the report.

Tested mode, channel , information		
Mode	Channel	Frequency (MHz)
Channel	Low	553.20
	High	565.80

Note: Only the worst working mode is displayed during testing

### 2.3 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.

#### Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note

#### Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	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) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

## 2.4 EQUIPMENTS LIST

### Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2024.08.28	2025.08.27
Signal Analyzer	R&S	FSV40-N	FCS-E012	2024.08.28	2025.08.27
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2024.08.28	2025.08.27
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2024.08.28	2025.08.27
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2024.08.28	2025.08.27
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2024.08.28	2025.08.27
Pre-Amplifier(0.1M-3GHz)	EMCI	EM330N	FCS-E004	2024.08.28	2025.08.27
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2024.08.28	2025.08.27
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2024.08.28	2025.08.27
Temperature & Humidity	HTC-1	victor	FCS-E005	2024.08.28	2025.08.27
Signal generator	Agilent	E4421B	FCS-E025	2024.08.28	2025.08.27

### Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2024.08.28	2025.08.27
LISN	R&S	ENV216	FCS-E007	2024.08.28	2025.08.27
LISN	ETS	3810/2NM	FCS-E009	2024.08.28	2025.08.27
Temperature & Humidity	HTC-1	victor	FCS-E008	2024.08.28	2025.08.27

### RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
Spectrum Analyzer	Keysight	N9020A	FCS-E015	2024.08.28	2025.08.27
Spectrum Analyzer	Agilent	E4447A	MY50180039	2024.08.28	2025.08.27
Spectrum Analyzer	R&S	FSV-40	101499	2024.08.28	2025.08.27
Audio Analyzer	R&S	UPL	FCS-E39	2024.08.28	2025.08.27

### 3. CONDUCTED EMISSION MEASUREMENT

#### 3.1 LIMIT

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emissionlimit (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.

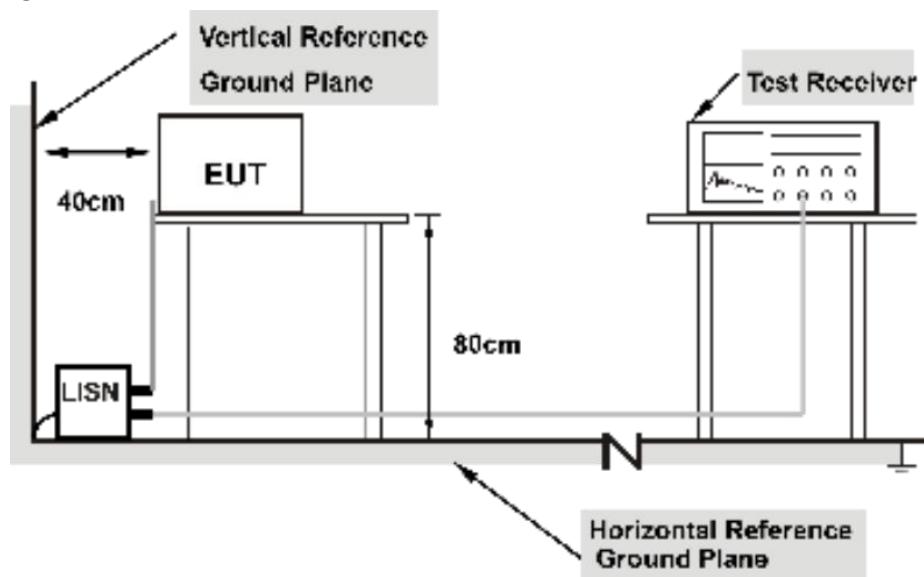
#### 3.2 TEST PROCEDURE

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

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical 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.
- 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 at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.3 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

### 3.4 TEST RESULTS

Temperature:	23.5°C	Relative Humidity:	59%
Phase:	L	Test Mode:	N/A
<b>Test Voltage:</b>	N/A		

" N/A" denotes test is not applicable in this Test Report

## 4 MAXIMUM RADIATED POWER

### 4.1 LIMIT

Refer to FCC 15.236(d)

In the bands allocated and assigned for broadcast television and in the 600 MHz service band: 50 mW EIRP

### 4.2 TEST PROCEDURE

A · Connect each EUT's antenna output to power sensor by RF cable and attenuator

### 3.3 TEST SETUP



### 4.4 TEST RESULTS

#### ANT 1

Test mode	Channel	Frequency (MHz)	Cable loss (dB)	Peak Output Power (dBm)	Attnenna Gain (dBi)	EIRP(dBm)	Limit (dBm)	Verdict
Channel	CH 01	553.20	1.0	7.70	0	7.70	16.99	PASS
	CH 02	565.80	1.0	7.58	0	7.58		

Note: Cable loss values have been included in the calculation covered during the test

## 5. OCCUPIED BANDWIDTH

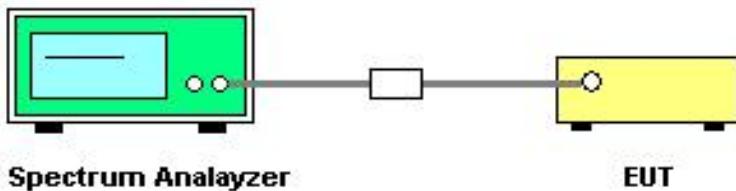
### 5.1 LIMIT

One or more adjacent 25KHz segments within the assignable frequencies may be combined to form a channel whose maximum bandwidth shall not exceed 200 kHz. The operating bandwidth shall not exceed 200 kHz

### 5.2 TEST PROCEDURE

Parameter	Setting
Detector	Peak/AV
Sweep time	Auto
Resolution bandwidth	1 % to 5 % of the occupied bandwidth
Video bandwidth:	3 x resolution bandwidth
Span:	2 x emission bandwidth
Trace mode:	Max. hold
Analyzer function:	99% power occupied bandwidth function
EUT:	Modulated signal with max(FM,2.5kHz tone). frequency deviation

### 5.3 TEST SETUP



## 5.4 TEST RESULTS

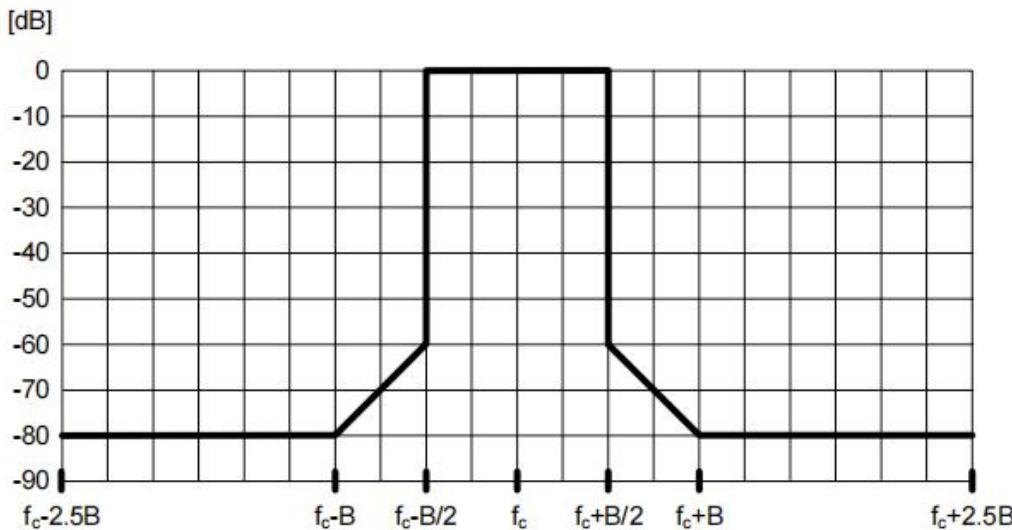
Test mode	Channel	Frequency (MHz)	99% Bandwidth (KHz)	Limit(KHz)	Verdict
Channel A	CH 01	553.2	176.31	200KHz	PASS
	CH 04	565.8	178.80		



## 6.NECESSARY BANDWIDTH

### 6.1 LIMIT

Analog systems. Emissions within the band from  $2.5 \times B$  below to  $2.5 \times B$  above the carrier frequency, where  $B$  is the channel bandwidth, shall comply with the emission mask in Figure 1 of section 4.2.4.2.2 of ETSI EN 300 422-1 V2.2.1 (2021-11) (incorporated by reference, see § 15.38).

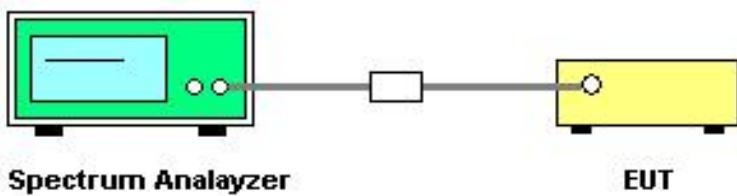


**Figure 1: Transmit spectral power mask for equipment employing analogue modulation, RBW = 1 kHz**

### 6.2 TEST PROCEDURE

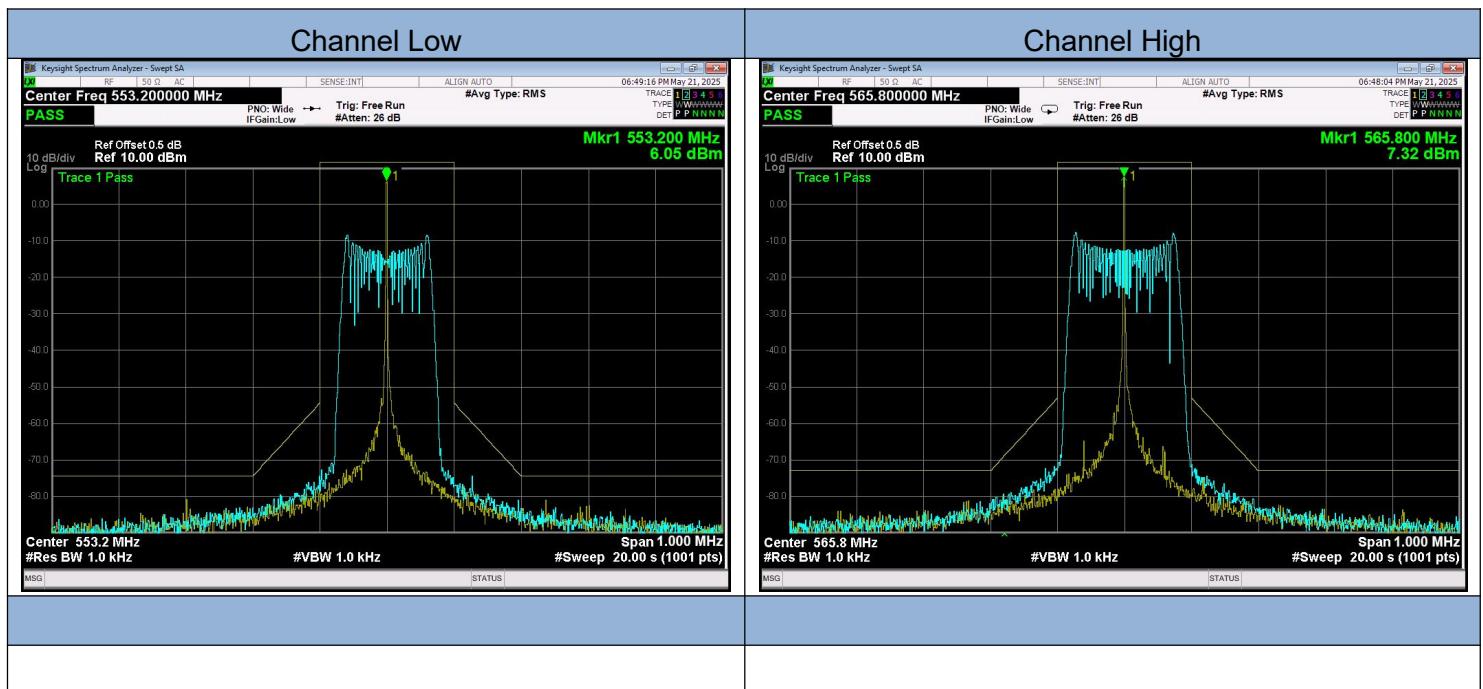
Measurement parameter	
Detector:	Peak - Quasi Peak / Average
Sweep time:	Auto
Resolution bandwidth:	1 kHz
Video bandwidth:	1 kHz
Span:	Fc-1MHz to fc+1MHz(2MHz)
Trace mode:	Max Hold

### 6.3 TEST SETUP



Center Frequency (MHz)	Declared Bandwide (KHz)	B (KHz)	B/2 (KHz)
553.2	200	200	100
565.8	200	200	100

## 6.4 TEST RESULT



## 7. TRANSMITTER UNWANTED EMISSIONS

### 7.1 LIMIT

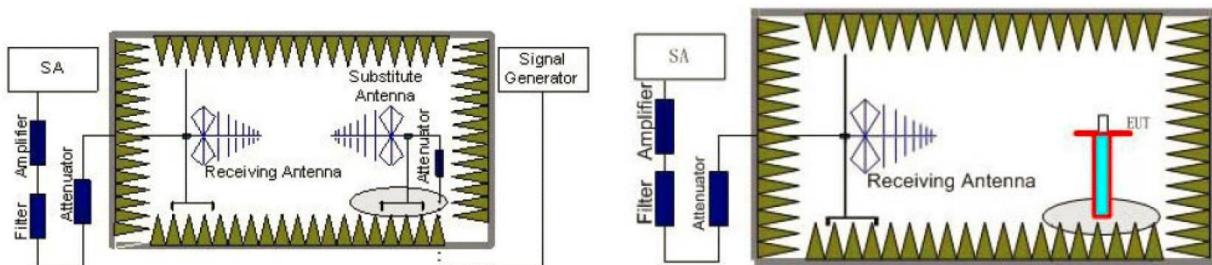
Spurious emissions are emissions outside the frequency range(s) of the equipment. The power of the spurious emissions shall not exceed the limits of table as below:

Frequency range	Maximum power, e.r.p(≤1 GHz) e.i.r.p(> 1 GHz)	Bandwidth
9 kHz - 150 kHz	-36 dBm	1 KHz
150 kHz -30 MHz	-36 dBm	10 KHz
30 MHz to 47 MHz	-36 dBm	100 KHz
47 MHz to 74 MHz	-54 dBm	100 KHz
74 MHz to 87.5 MHz	-36 dBm	100 KHz
87.5 MHz to 118 MHz	-54 dBm	100 KHz
118 MHz to 174 MHz	-36 dBm	100 KHz
174 MHz to 230 MHz	-54 dBm	100 KHz
230 MHz to 470 MHz	-36 dBm	100 KHz
470 MHz to 862 MHz	-54 dBm	100 KHz
862 MHz to 1 GHz	-36 dBm	100 KHz
1 GHz to 4 GHz	-30 dBm	1 MHz

### 7.2 TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 30MHz to 6000MHz with 100 KHz RBW and 300 KHz VBW
3. Please refer to ETSI EN 300 422-1 V2.2.1 (2021-11) clause 4.2.4.1.2 for the measurement method.

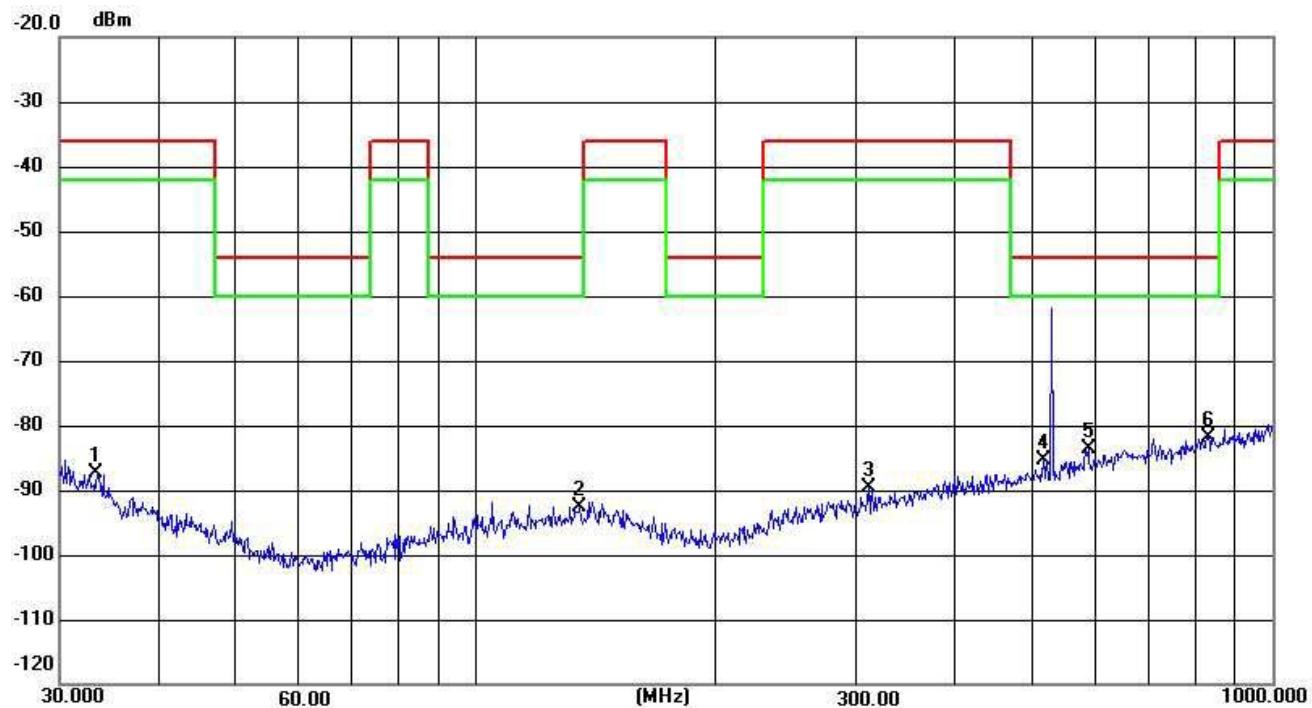
### 7.3 TEST SETUP



## 7.4 TEST RESULTS

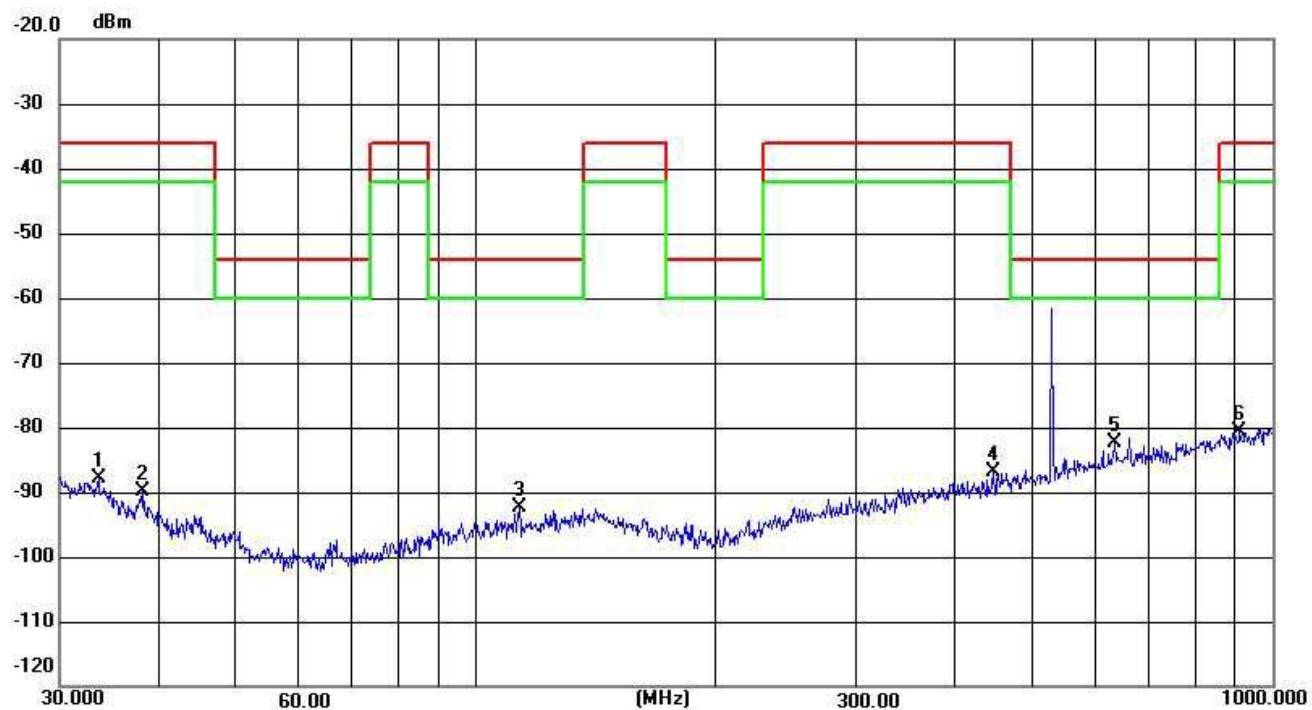
CHANNEL -LOW CH-30MHZ-1000MHZ

Vertical



No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	33.4449	-77.80	-9.65	-87.45	-36.00	-51.45	peak
2	135.0319	-60.27	-32.26	-92.53	-54.00	-38.53	peak
3	311.0867	-57.56	-32.09	-89.65	-36.00	-53.65	peak
4	515.4374	-53.57	-31.88	-85.45	-54.00	-31.45	peak
5	586.8437	-51.73	-31.78	-83.51	-54.00	-29.51	peak
6	830.4002	-50.28	-31.47	-81.75	-54.00	-27.75	peak

## Horizontal



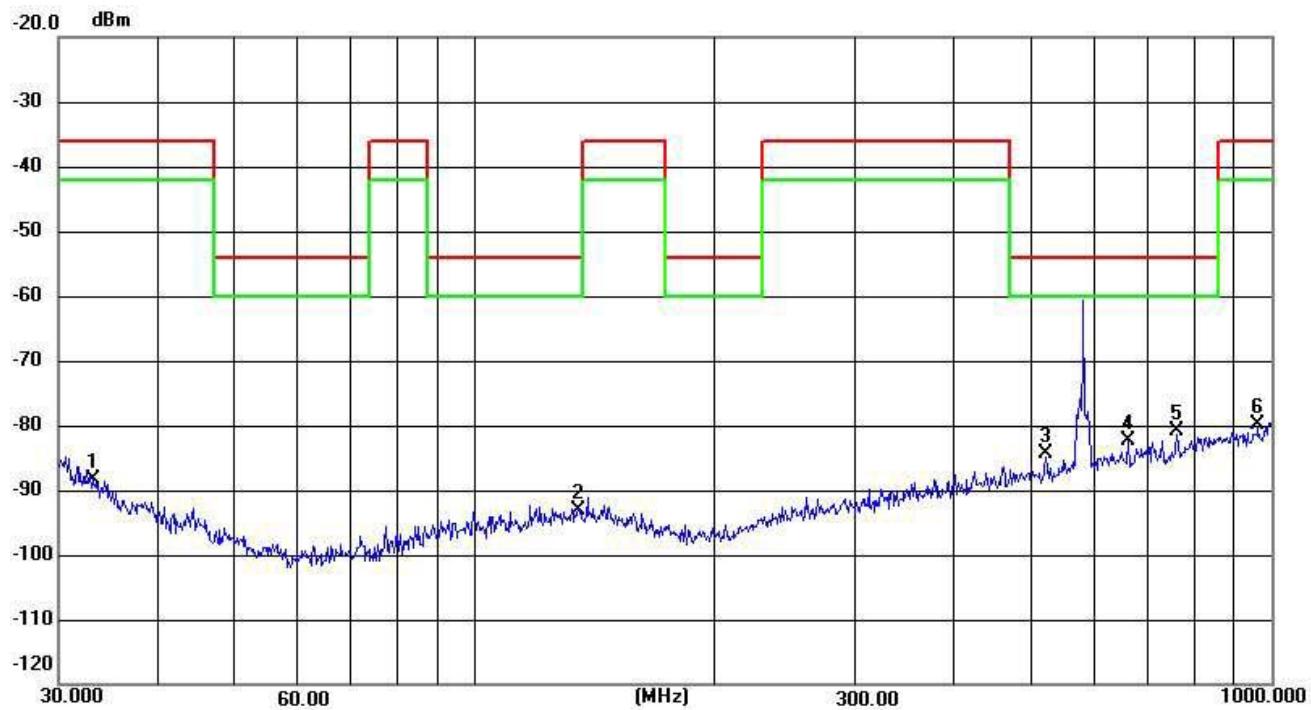
No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	33.5624	-78.10	-9.74	-87.84	-36.00	-51.84	peak
2	38.2120	-77.16	-12.75	-89.91	-36.00	-53.91	peak
3	113.3163	-60.10	-32.29	-92.39	-54.00	-38.39	peak
4	446.4141	-54.94	-31.95	-86.89	-36.00	-50.89	peak
5	633.9073	-50.59	-31.72	-82.31	-54.00	-28.31	peak
6	909.6667	-49.14	-31.39	-80.53	-36.00	-44.53	peak

Note :

1. Result = Reading + Corrected Factor Note :

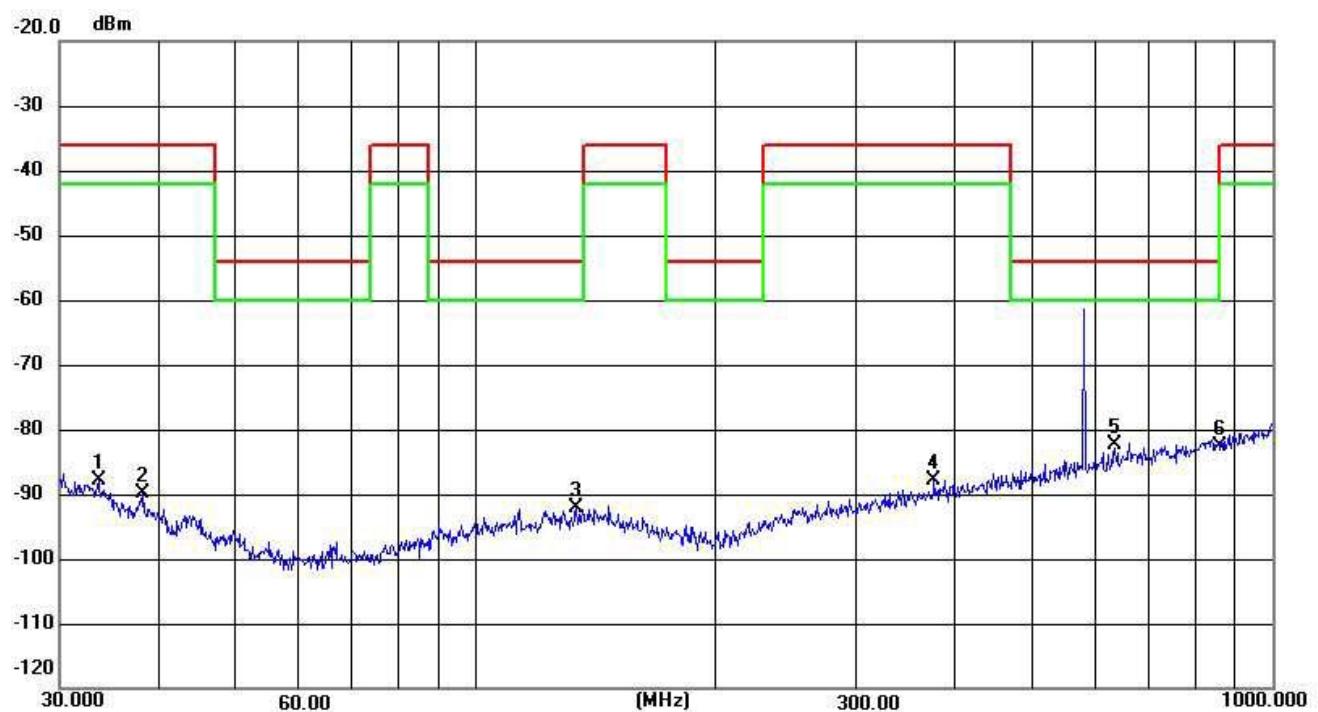
**CHNNEL -HIGH CH-30MHZ-1000MHZ**

Vertical



No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	33.2112	-78.75	-9.50	-88.25	-36.00	-52.25	peak
2	135.0319	-60.95	-32.26	-93.21	-54.00	-39.21	peak
3	520.8882	-52.53	-31.87	-84.40	-54.00	-30.40	peak
4	661.1504	-50.76	-31.69	-82.45	-54.00	-28.45	peak
5	760.7036	-49.26	-31.55	-80.81	-54.00	-26.81	peak
6	962.1623	-48.61	-31.34	-79.95	-36.00	-43.95	peak

## Horizontal



No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	33.5624	-78.10	-9.74	-87.84	-36.00	-51.84	peak
2	38.2120	-77.16	-12.75	-89.91	-36.00	-53.91	peak
3	133.6188	-59.93	-32.27	-92.20	-54.00	-38.20	peak
4	375.9385	-55.83	-32.02	-87.85	-36.00	-51.85	peak
5	633.9073	-50.59	-31.72	-82.31	-54.00	-28.31	peak
6	860.0352	-51.09	-31.44	-82.53	-54.00	-28.53	peak

Note :

1. Result = Reading + Corrected Factor Note :

## CHANNEL 1GHZ-4GHZ

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V	Detector
Channel 553.20 MHz							
1106.40	-50.50	7.92	-42.58	-30	-12.58	H	Peak
1659.60	-51.28	13.97	-37.31	-30	-7.31	H	Peak
2212.80	-49.39	7.92	-41.47	-30	-11.47	V	Peak
2766.00	-48.90	13.64	-35.26	-30	-5.26	V	Peak
Channel 565.80MHz							
1131.60	-53.70	8.19	-45.51	-30	-15.51	H	Peak
1697.40	-53.58	13.52	-40.06	-30	-10.06	H	Peak
2263.20	-51.43	8.19	-43.24	-30	-13.24	V	Peak
2829.00	-49.18	13.52	-35.66	-30	-5.66	V	Peak

## Remark.

1.The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

## 8. FREQUENCY STABILITY

### 8.1 LIMIT

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.005\%$  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

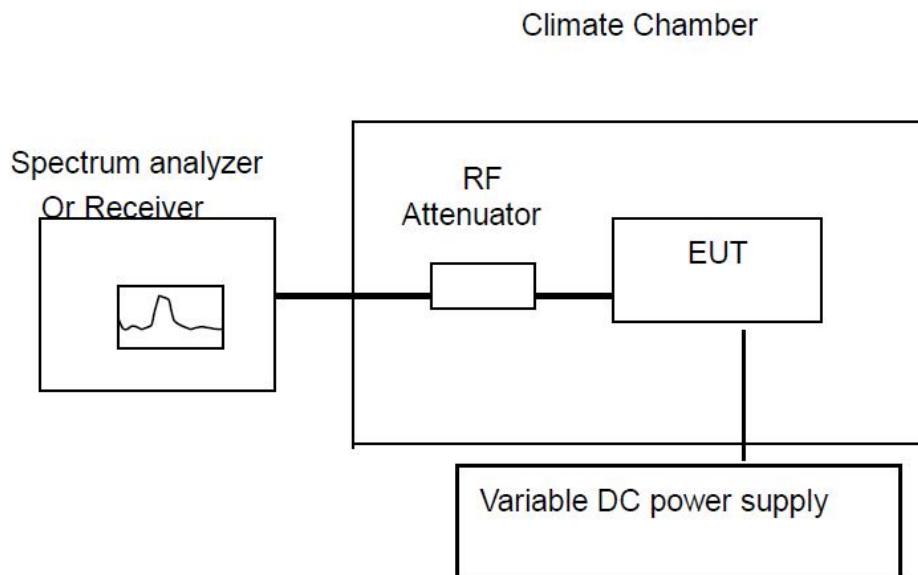
### 8.2 TEST PROCEDURE

a. The EUT was connected to an external DC power supply and the RF output was connected to a frequency counter via feed through attenuators. The EUT was placed inside the temperature chamber. The DC leads and the RF output cable, exited the chamber through an opening made for that purpose.

After the temperature stabilized the frequency output was recorded from the counter. An external variable DC power supply was connected to the battery terminals of the equipment under test.

b. For hand carried, battery powered equipment primary supply voltage was reduced to the battery operating end point as specified by the manufacturer. The output frequency was recorded for each battery voltage.

### 8.3 TEST SETUP



## 8.4 TEST RESULTS

- (1) Frequency stability versus input voltage (Supply Nominal voltage is DC 3V)
- (2) Frequency stability versus input voltage (Supply battery operating end point which shall be specified by the manufacturer DC 3.7V)

Refernce Frequency: 553.20MHz			
Power supply	Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)
DC 3.33V	20	1021	1.897769517
DC 3.7V	20	1011	1.879182156
DC 4.07V	20	1013	1.882899628

Refernce Frequency: 553.20MHz				
Frequency Deviation measured with time Elapse(30 minutes)				
Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Results
50	1023	1.901486989	50	Pass
40	1022	1.899628253		
30	1019	1.894052045		
20	1023	1.901486989		
10	1019	1.894052045		
0	1023	1.901486989		
-10	1023	1.901486989		
-20	1019	1.894052045		

Refernce Frequency: 565.80MHz			
Power supply	Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)
DC 3.33V	20	1009	1.715986395
DC 3.7V	20	1006	1.710884354
DC 4.07V	20	1010	1.717687075

Refernce Frequency: 565.80MHz				
Frequency Deviation measured with time Elapse(30 minutes)				
Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Results
50	1011	1.719387755	50	Pass
40	1006	1.710884354		
30	1006	1.710884354		
20	1008	1.714285714		
10	1007	1.712585034		
0	1008	1.714285714		
-10	1008	1.714285714		
-20	1006	1.710884354		

\*\*\*\*\*END OF THE REPORT\*\*\*\*\*