



FCC Test Report

Report No: FCS202605022W01

Issued for

Applicant:	infoSVC Co., Ltd
Address:	903,No.7,Xulian Industrial Zone,Longsheng Road,Longhua District,Shenzhen,China
Product Name:	Digital UHF Wireless System
Brand Name:	GAODIMIC
Model Name:	DTT228-P
Series Model:	DTT228P,DTT248P,DTT268P,DT248P,DT268P
FCC ID:	2BW9H-DTT228-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 http://www.fcs-lab.com	

TEST RESULT CERTIFICATION

Applicant's Name.....: infoSVC Co., Ltd

Address.....: 903,No.7,Xulian Industrial Zone,Longsheng Road,Longhua District,Shenzhen,China

Manufacture's Name.....: infoSVC Co., Ltd

Address.....: 903,No.7,Xulian Industrial Zone,Longsheng Road, Longhua District,Shenzhen,China

Product Description

Product Name.....: Digital UHF Wireless System

Brand Name: GAODIMIC

Model Name.....: DTT228-P

Series Model.....: See the first page of the report

Test Standards.....: FCC Rules and Regulations Part 15 Subpart C section 15.236

Test Procedure.....: ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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 of Test.....:

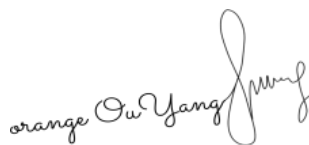
Date (s) of performance of tests.: June 23,2026 ~July 09,2026

Date of Issue.....: July 09,2026

Test Result.....: Pass

Tested by

:



(orange OuYang)

Reviewed by

:



(Jayden)

Approved by

:



(Jack Wang)

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Revision History

Rev.	Issue Date	Effect Page	Contents
00	July 09,2026	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 & Emission Mask	PASS	--
FCC Part 15.236(f)(3)	Frequency stability	PASS	--
FCC Part 15.236(g)	Field strength of spurious radiation	PASS	--
FCC Part 15.203	Antenna Requirement	PASS	--
FCC Part 207(a)	Conducted Emission	PASS	--

NOTE:

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

(2) All tests are according to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

1.1 TEST LABORATORY

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:	+86-769-27280901
Fax:	+86-769-27280901
Laboray Accreditations	
FCC Test Firm Registration Number: 514908 CNAS Number: L15566 Designation number: CN0127 A2LA accreditation number: 5545.01 ISED Number: 25801	

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(<1G) 30MHz-1000MHz	$\pm 3.2\text{ dB}$
6	All emissions,radiated (1GHz -18GHz)	$\pm 3.66\text{ dB}$
7	All emissions,radiated (18GHz -40GHz)	$\pm 4.31\text{ dB}$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Digital UHF Wireless System
Brand Name	GAODIMIC
Model Name	DTT228-P
Series Model	See the first page of the report
Model differences	N/A
Channel List	Please refer to the Note 2.
Operation frequency	Channel: 530-590MHz
Modulation Type	PSK
Antenna Type	FPC Antenna
Antenna Gain (dBi)	-1.81(dBi)
Power Supply	Input:110V Output:5V
Battery	Capacity:800mha Rated Voltage:3.7V
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)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	530.0	08	565.0		
02	535.0	09	570.0		
03	540.0	10	575.0		
04	545.0	11	580.0		
05	550.0	12	585.0		
06	555.0	13	590.0		
07	560.0				

Ant.	Antenna Brand	Antenna Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	FPC Antenna	N/A	-1.81	Antenna

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.

Test software:FCC tools

The test software 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	CH 01	530.0
	CH 07	560.0
	CH 13	590.0

Note : that use new battery during the test

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
N/A	N/A	N/A	N/A	N/A	N/A
E-1	Adapter	Xiaomi	HW-050450C00	N/A	N/A
C-1	USB Cable	Xiaomi	N/A	N/A	N/A

Support units

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

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	2025.08.25	2026.08.24
Signal Analyzer	R&S	FSV40-N	FCS-E012	2025.08.25	2026.08.24
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2025.08.25	2026.08.24
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2025.08.25	2026.08.24
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2025.08.25	2026.08.24
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2025.08.25	2026.08.24
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2025.08.25	2026.08.24
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2025.08.25	2026.08.24
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2025.08.25	2026.08.24
Temperature & Humidity	HTC-1	victor	FCS-E005	2025.09.01	2026.08.31
Signal generator	Agilent	E4421B	FCS-E025	2025.08.25	2026.08.24

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2025.08.25	2026.08.24
LISN	R&S	ENV216	FCS-E007	2025.08.25	2026.08.24
LISN	ETS	3810/2NM	FCS-E009	2025.08.25	2026.08.24
Temperature & Humidity	HTC-1	victor	FCS-E008	2025.08.25	2026.08.24

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
Spectrum Analyzer	Keysight	N9020A	FCS-E015	2025.08.25	2026.08.24
Spectrum Analyzer	Agilent	E4447A	MY50180039	2025.08.25	2026.08.24
Spectrum Analyzer	R&S	FSV-40	101499	2025.08.25	2026.08.24
Power meter	Aglient	U2021XA	MY55150021	2025.08.25	2026.08.24
Isolation attenuator	Z-Link	ASMA	FCS-E023	2025.08.25	2026.08.24

3 MAXIMUM RADIATED POWER

3.1 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

3.2 TEST PROCEDURE

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

3.3 TEST SETUP



3.4 TEST RESULTS

Test mode	Channel	Frequency (MHz)	Peak Output Power (dBm)	Cable loss(dBm)	Atnenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Verdict
Channel	01	530.0	8.54	1.0	-1.81	7.73	16.99	PASS
	07	560.0	8.83	1.0	-1.81	8.02		
	13	590.0	8.66	1.0	-1.81	7.85		

Note:EIRP(dBm)=Peak Output Power(dBm)+Cable loss(dBm)+Atnenna Gain(dBi)

4. OCCUPIED BANDWIDTH & EMISSION MASK

4.1 LIMIT

Occupied bandwidth: 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

Emission Mask: The spectral power of the transmitted signal at each offset frequency from the carrier shall comply with the emission mask limits specified in FCC Part 15.236.

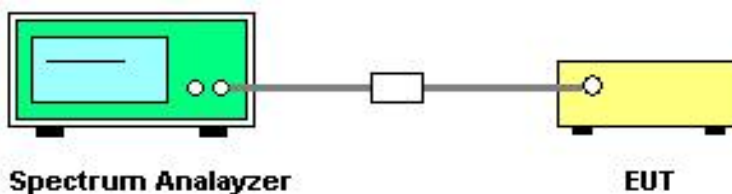
4.2 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer, Set spectrum Analyzer with 1 KHz RBW and 1 KHz VBW.

The emission mask measurement was performed in compliance with FCC Part 15.236. The test procedure and measurement parameters specified in FCC Part 15.236 were followed during testing.

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

4.3 TEST SETUP

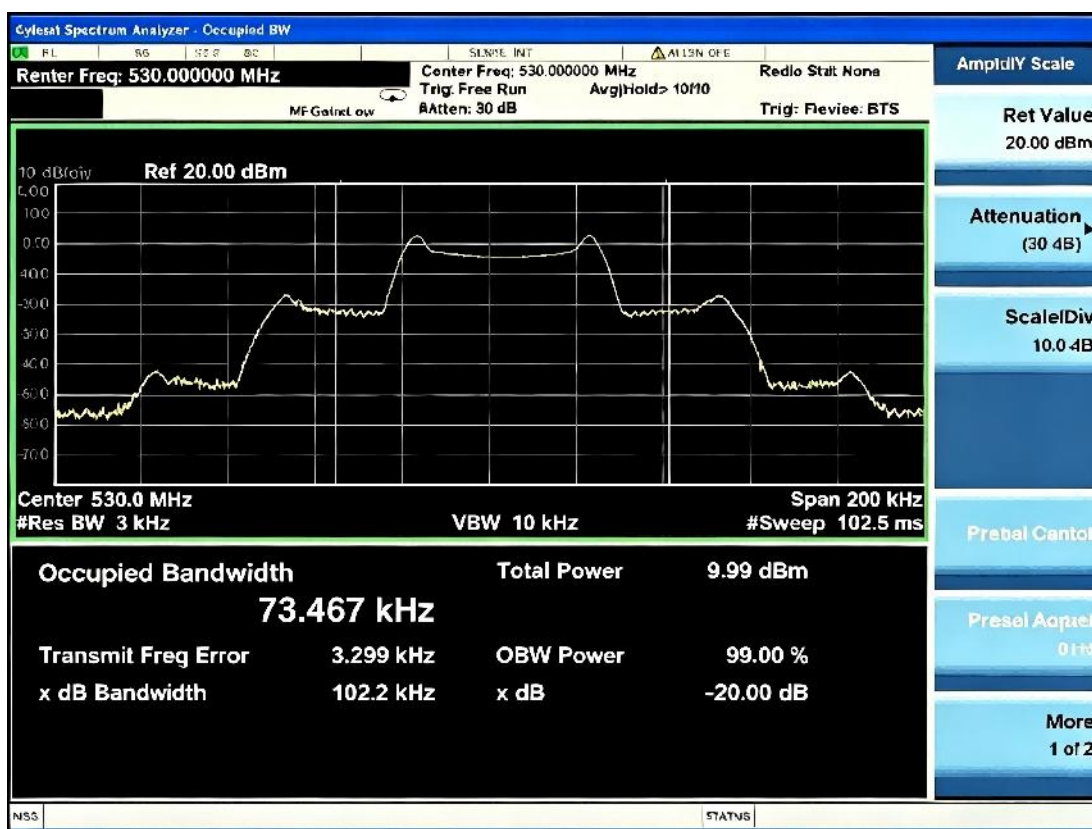


4.4 TEST RESULTS

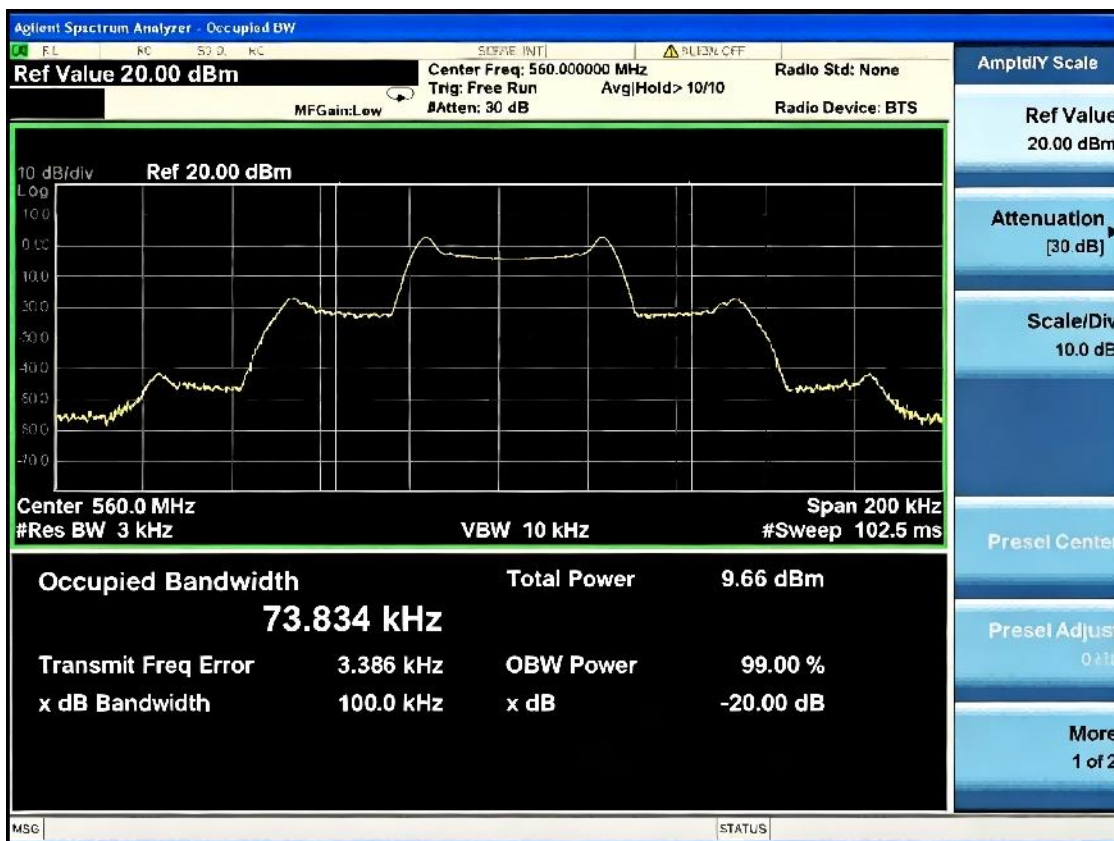
Test mode	Channel	Frequency (MHz)	99% Bandwidth (KHz)	Limit(KHz)	Verdict
Channel	Low CH	530.0	73.467KHz	200	PASS
	Middle CH	560.0	73.834KHz		
	High CH	590.0	73.794KHz		

OCCUPIED BANDWIDTH

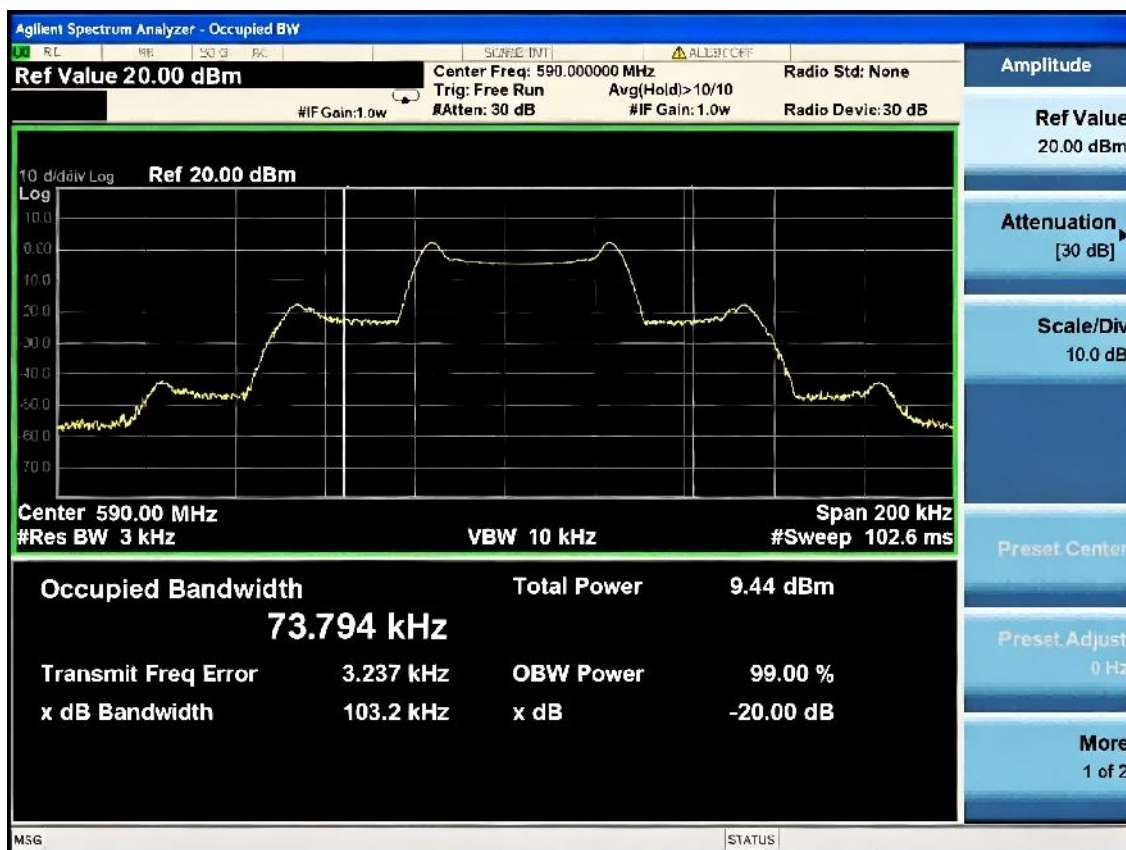
Low CH



Middle CH

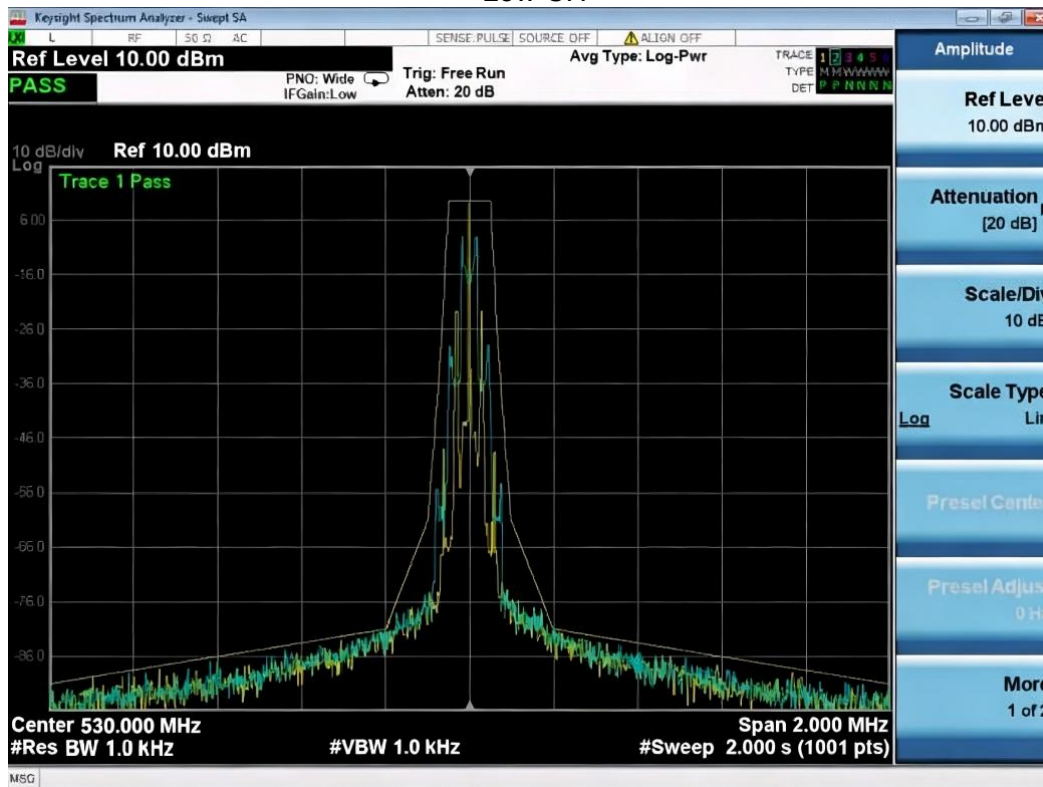


High CH

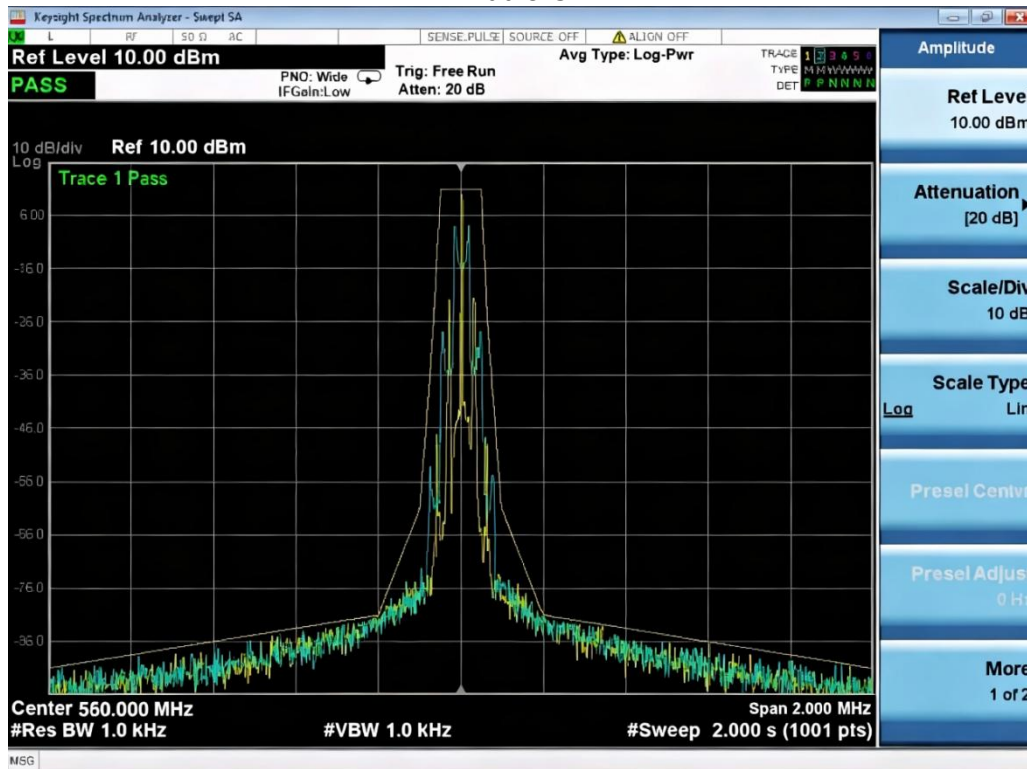


Emission Mask

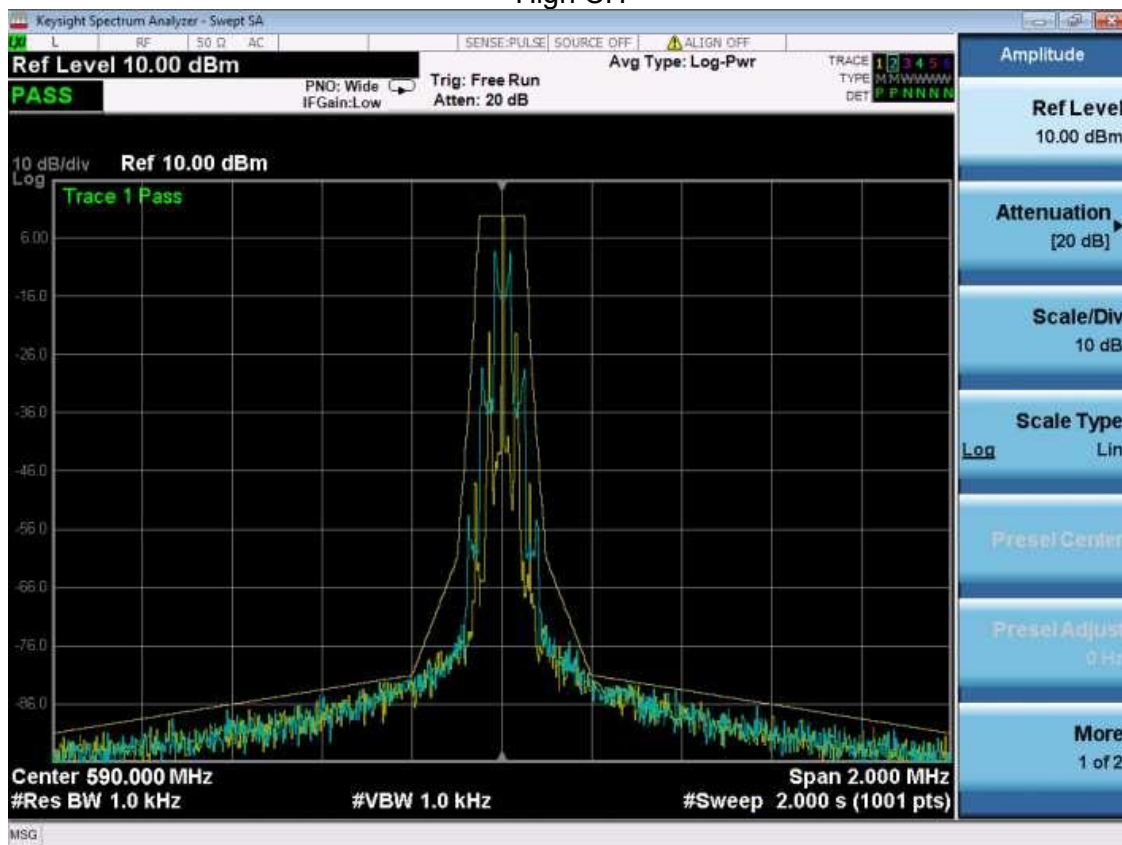
Low CH



Middle CH



High CH



5. FIELD STRENGTH OF SPURIOUS RADIATION

5.1 LIMIT

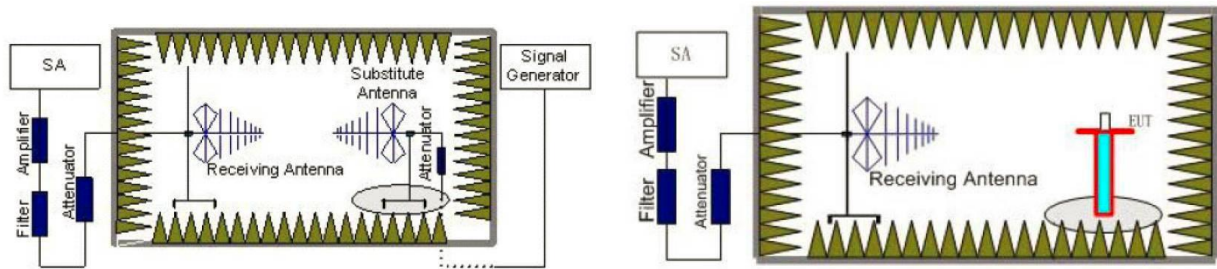
Spurious emissions are emissions outside the frequency range(s) of the equipment. The power of the spurious emissions shall not exceed the limits of table as below:

State	Frequency		
	47MHz to 74MHz, 87.5MHz to 137MHz 174MHz to 230MHz, 470MHz to 862MHz	Other Frequencies below 1000MHz	Frequencies above 1000MHz
Operation	4nW	250nW	1uW
Standby	2nW	2nW	20nW

5.2 TEST PROCEDURE

- 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
- All test conditions and limits comply with FCC 47 CFR §15.236(g).

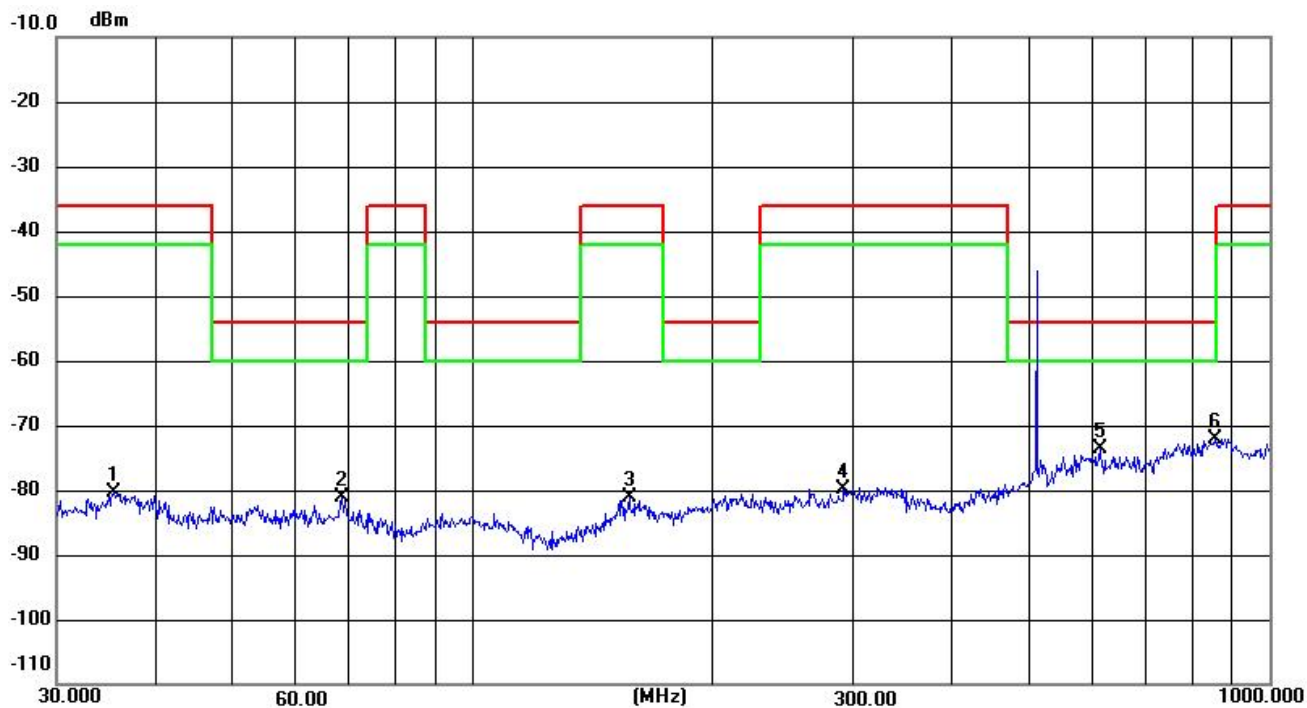
5.3 TEST SETUP



5.4 TEST RESULTS

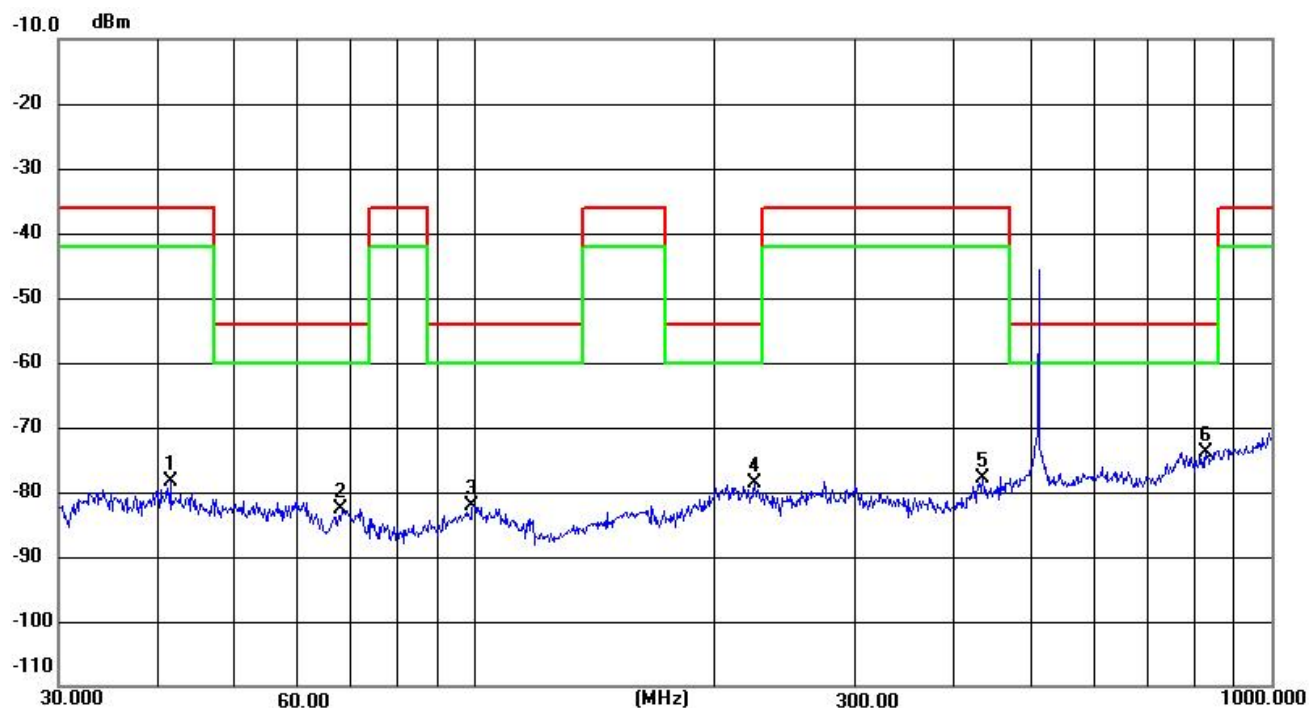
LOW CH-30MHZ-1000MHZ

Vertical



No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	35.3750	-64.05	-16.30	-80.35	-36.00	-44.35	peak
2	68.3906	-61.09	-19.98	-81.07	-54.00	-27.07	peak
3	157.0072	-53.01	-28.13	-81.14	-36.00	-45.14	peak
4	292.0581	-51.88	-27.91	-79.79	-36.00	-43.79	peak
5	612.0642	-46.65	-26.92	-73.57	-54.00	-19.57	peak
6	854.0247	-47.24	-24.84	-72.08	-54.00	-18.08	peak

Horizontal



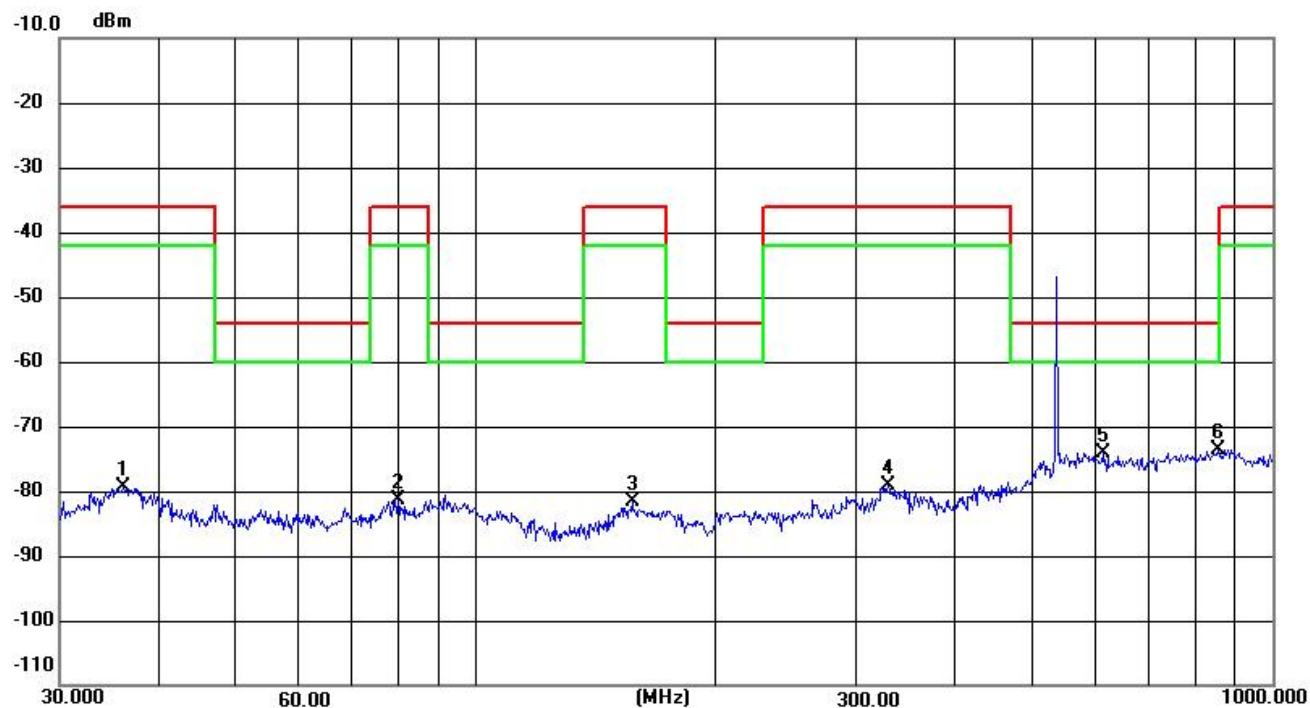
No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	41.4215	-61.20	-17.07	-78.27	-36.00	-42.27	peak
2	68.1512	-62.71	-19.95	-82.66	-54.00	-28.66	peak
3	99.5279	-52.43	-29.64	-82.07	-54.00	-28.07	peak
4	224.5192	-50.73	-27.77	-78.50	-54.00	-24.50	peak
5	434.0650	-50.65	-27.34	-77.99	-36.00	-41.99	peak
6	827.4932	-48.77	-25.06	-73.83	-54.00	-19.83	peak

Note :

1. Result = Reading + Corrected Factor

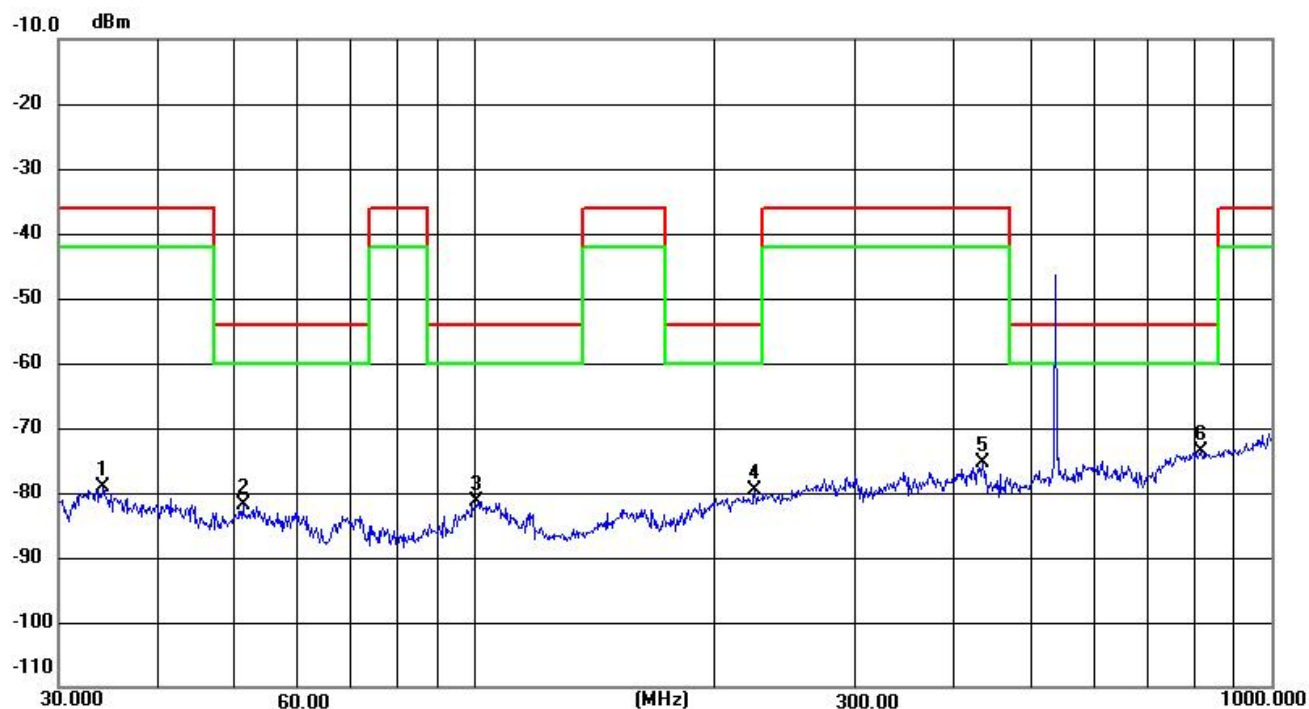
MIDDLE CH-30MHZ-1000MHZ

Vertical



No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	36.1272	-62.89	-16.44	-79.33	-36.00	-43.33	peak
2	79.8002	-51.22	-30.23	-81.45	-36.00	-45.45	peak
3	157.0072	-53.51	-28.13	-81.64	-36.00	-45.64	peak
4	329.0390	-51.25	-27.90	-79.15	-36.00	-43.15	peak
5	612.0642	-47.15	-26.92	-74.07	-54.00	-20.07	peak
6	854.0247	-48.74	-24.84	-73.58	-54.00	-19.58	peak

Horizontal



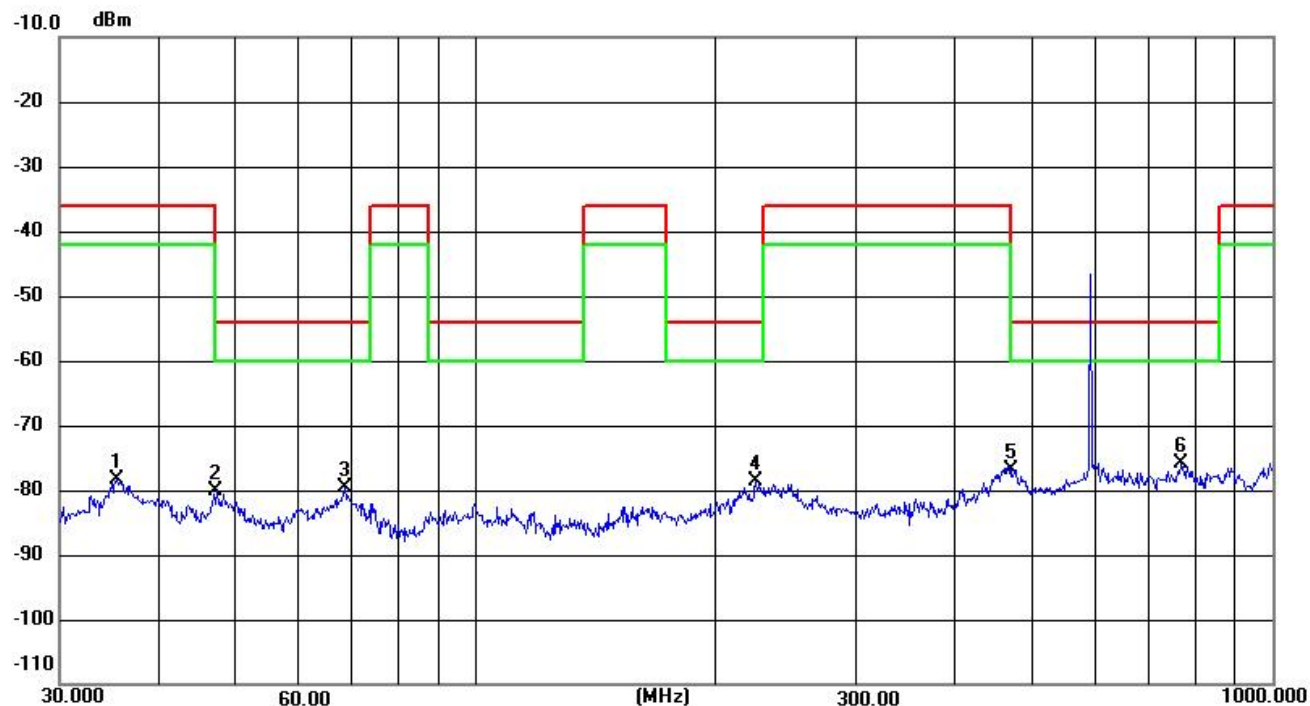
No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	34.1561	-63.52	-15.71	-79.23	-36.00	-43.23	peak
2	51.1208	-65.52	-16.41	-81.93	-54.00	-27.93	peak
3	100.9339	-51.74	-29.59	-81.33	-54.00	-27.33	peak
4	224.5192	-51.73	-27.77	-79.50	-54.00	-25.50	peak
5	434.0650	-48.15	-27.34	-75.49	-36.00	-39.49	peak
6	815.9678	-48.45	-25.16	-73.61	-54.00	-19.61	peak

Note :

1. Result = Reading + Corrected Factor

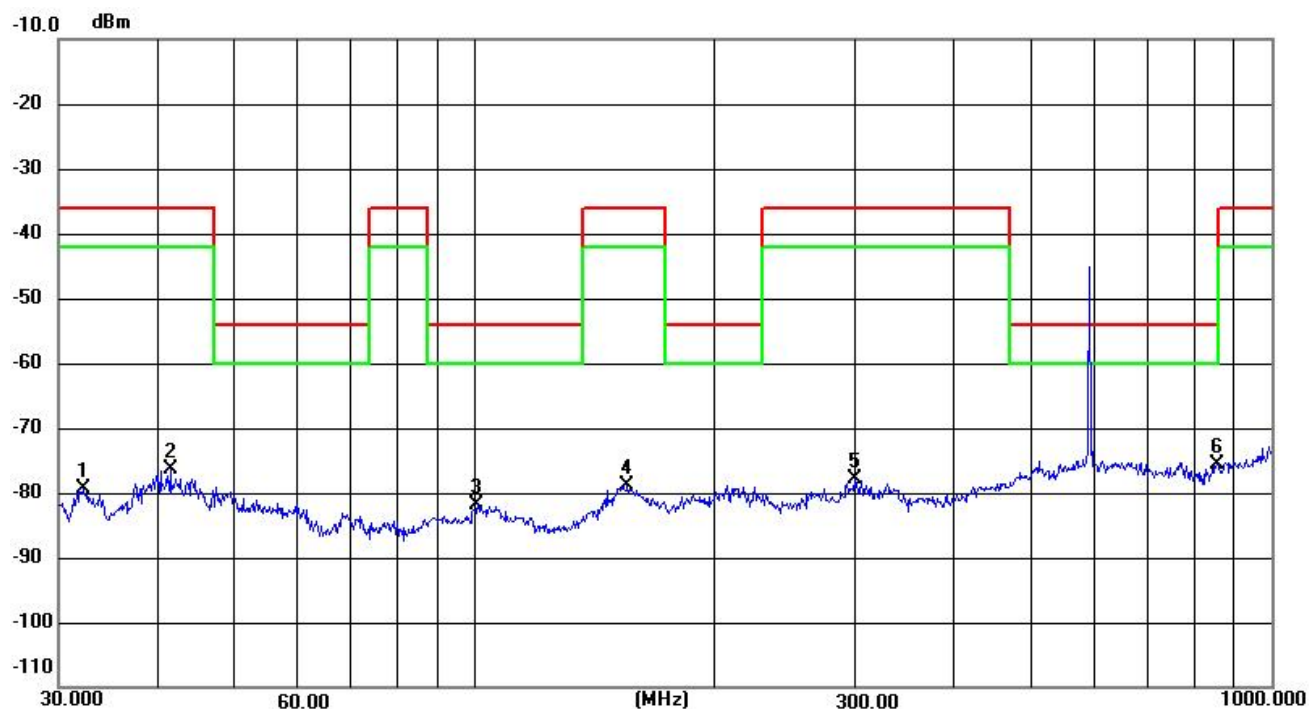
HIGH CH-30MHZ-1000MHZ

Vertical



No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	35.3750	-62.05	-16.30	-78.35	-36.00	-42.35	peak
2	47.3253	-63.69	-16.53	-80.22	-54.00	-26.22	peak
3	68.3906	-59.59	-19.98	-79.57	-54.00	-25.57	peak
4	224.5192	-50.73	-27.77	-78.50	-54.00	-24.50	peak
5	470.5230	-49.98	-27.00	-76.98	-54.00	-22.98	peak
6	768.7481	-50.52	-25.38	-75.90	-54.00	-21.90	peak

Horizontal



No.	Frequency (MHz)	Reading (dBm)	Correction (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	32.1794	-64.94	-14.47	-79.41	-36.00	-43.41	peak
2	41.4215	-59.20	-17.07	-76.27	-36.00	-40.27	peak
3	100.9339	-52.24	-29.59	-81.83	-54.00	-27.83	peak
4	155.3642	-50.77	-28.22	-78.99	-36.00	-42.99	peak
5	299.3158	-50.06	-27.92	-77.98	-36.00	-41.98	peak
6	854.0247	-50.74	-24.84	-75.58	-54.00	-21.58	peak

Note :

1. Result = Reading + Corrected Factor Note :

CHANNEL 1GHZ-6GHZ

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V	Remark
Channel Low -530.0MHz							
1060.00	-65.15	25.84	-39.31	-30	-9.31	H	Peak
1590.00	-74.52	27.82	-46.70	-30	-16.70	H	Peak
2120.00	-71.97	27.82	-44.15	-30	-14.15	H	Peak
1060.00	-71.36	25.84	-45.52	-30	-15.52	V	Peak
1590.00	-72.08	27.82	-44.26	-30	-14.26	V	Peak
2120.00	-67.98	27.82	-40.16	-30	-10.16	V	Peak
Channel Middle -560.0MHz							
1120.00	-64.07	25.56	-38.51	-30	-8.51	H	Peak
1680.00	-65.76	27.26	-38.50	-30	-8.50	H	Peak
2240.00	-70.38	27.76	-42.62	-30	-12.62	H	Peak
1120.00	-67.20	25.56	-41.64	-30	-11.64	V	Peak
1680.00	-69.50	27.26	-42.24	-30	-12.24	V	Peak
2240.00	-61.93	27.76	-34.17	-30	-4.17	V	Peak
Channel High -590.0MHz							
1180.00	-62.25	25.44	-36.81	-30	-6.81	H	Peak
1770.00	-69.51	27.18	-42.33	-30	-12.33	H	Peak
2360.00	-69.21	27.26	-41.95	-30	-11.95	H	Peak
1180.00	-66.01	25.44	-40.57	-30	-10.57	V	Peak
1770.00	-69.49	27.18	-42.31	-30	-12.31	V	Peak
2360.00	-63.00	27.26	-35.74	-30	-5.74	V	Peak
Note:Other emissions are attenuated 20dB below the limit, so does not reported in the report.							

6. CONDUCTED EMISSION TEST

6.1 POWER LINE CONDUCTED EMISSION LIMITS

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 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.

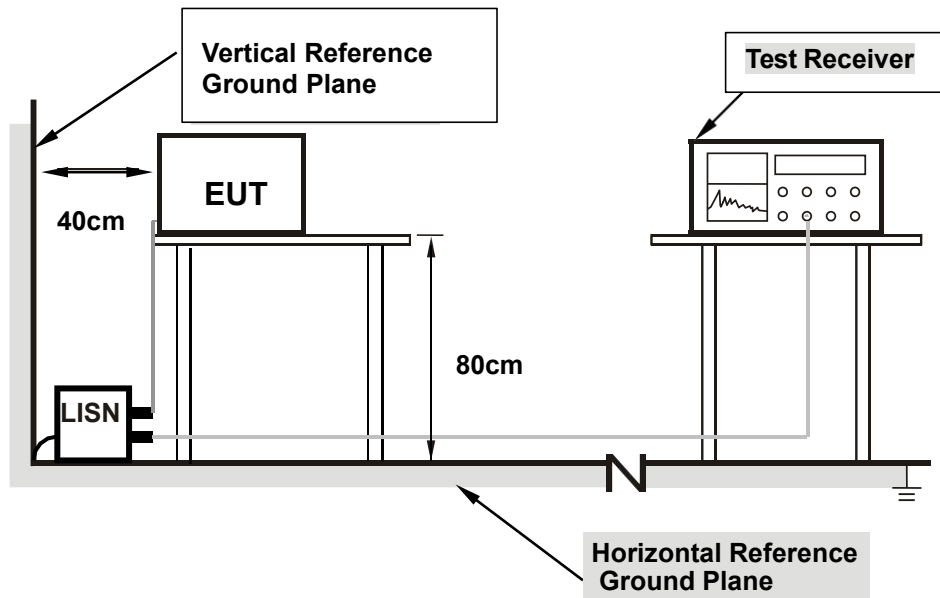
The following table is the setting of the receiver

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

6.2 TEST PROCEDURE

- 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.

6.3 TEST SETUP

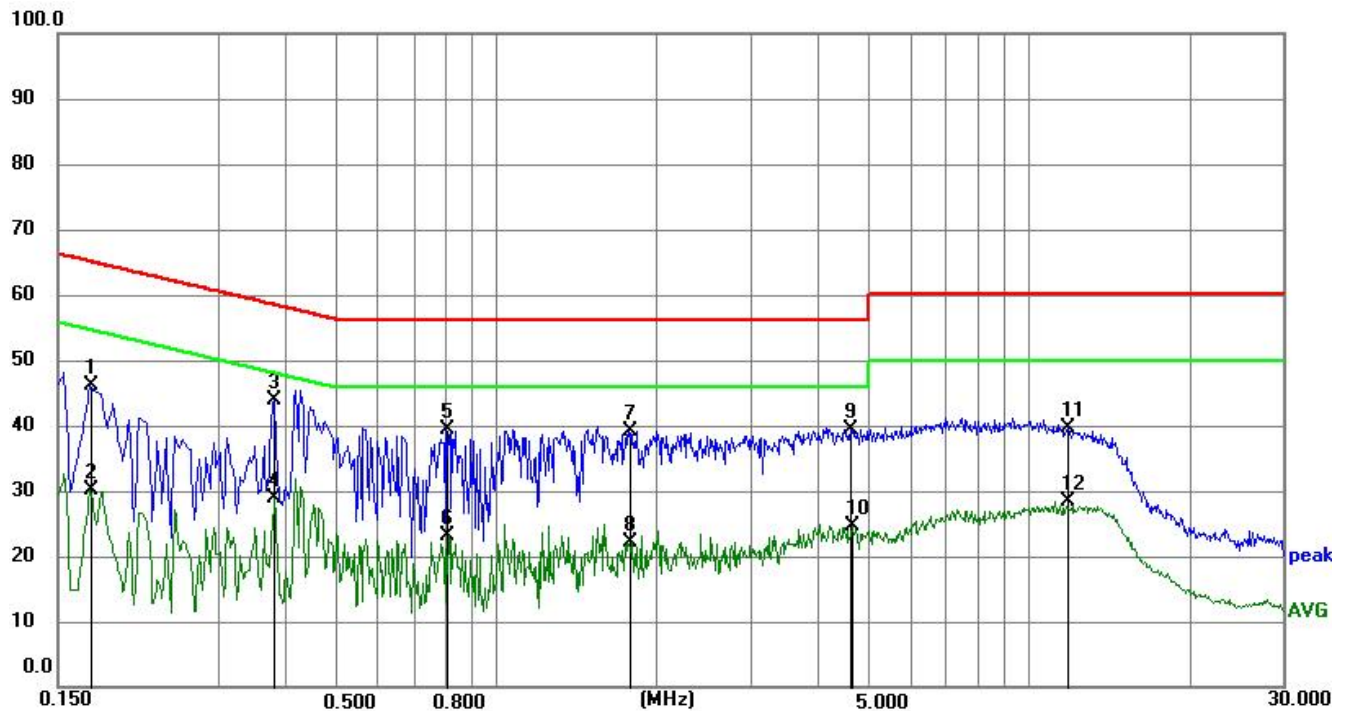


Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

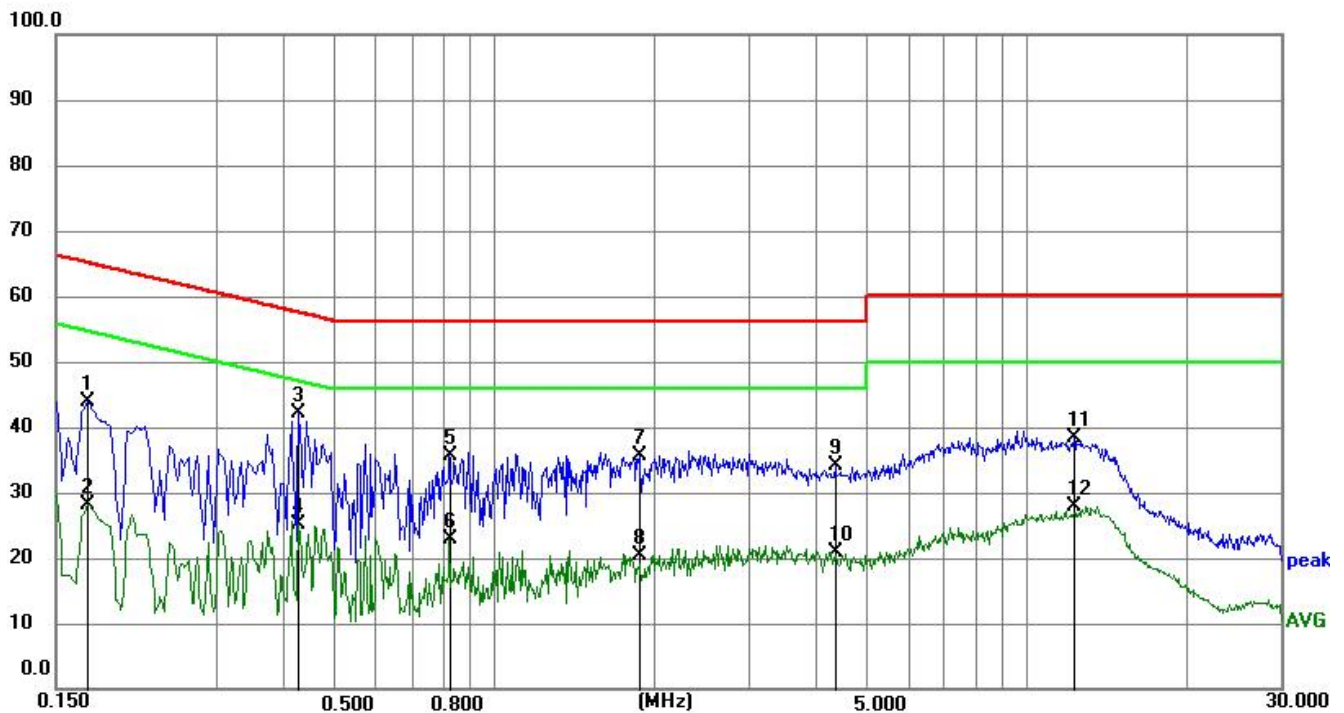
6.4 TEST RESULT

Temperature:	25°C	Relative Humidity:	60%
Test Mode:	Low CH (GFSK)	Test Voltage:	AC 110V
Result:	L	Result:	Pass



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1725	36.14	9.94	46.08	64.84	18.76	Peak
2	0.1725	20.22	9.94	30.16	54.84	24.68	AVG
3	0.3840	34.01	9.89	43.90	58.19	14.29	Peak
4	0.3840	19.08	9.89	28.97	48.19	19.22	AVG
5	0.8069	29.37	9.91	39.28	56.00	16.72	Peak
6	0.8069	13.22	9.91	23.13	46.00	22.87	AVG
7	1.7744	29.03	10.03	39.06	56.00	16.94	Peak
8	1.7744	12.11	10.03	22.14	46.00	23.86	AVG
9	4.6455	29.37	10.08	39.45	56.00	16.55	Peak
10	4.6545	14.53	10.08	24.61	46.00	21.39	AVG
11	11.8815	29.61	10.09	39.70	60.00	20.30	Peak
12	11.8815	18.23	10.09	28.32	50.00	21.68	AVG

Temperature:	25°C	Relative Humidity:	60%
Test Mode:	Low CH (GFSK)	Test Voltage:	AC 110V
Result:	N	Result:	Pass



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1725	33.96	9.87	43.83	64.84	21.01	Peak
2	0.1725	18.30	9.87	28.17	54.84	26.67	AVG
3	0.4290	32.11	9.90	42.01	57.27	15.26	Peak
4	0.4290	15.24	9.90	25.14	47.27	22.13	AVG
5	0.8250	25.64	9.96	35.60	56.00	20.40	Peak
6	0.8250	12.93	9.96	22.89	46.00	23.11	AVG
7	1.8735	25.58	10.04	35.62	56.00	20.38	Peak
8	1.8735	10.30	10.04	20.34	46.00	25.66	AVG
9	4.3665	23.98	10.04	34.02	56.00	21.98	Peak
10	4.3665	10.84	10.04	20.88	46.00	25.12	AVG
11	12.2775	28.11	10.19	38.30	60.00	21.70	Peak
12	12.2775	17.62	10.19	27.81	50.00	22.19	AVG

Remark:1.All readings are Peak and Average values

2.During the test, pre-scan all modes, only the worst case is recorded in the report.

7. FREQUENCY STABILITY

7.1 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

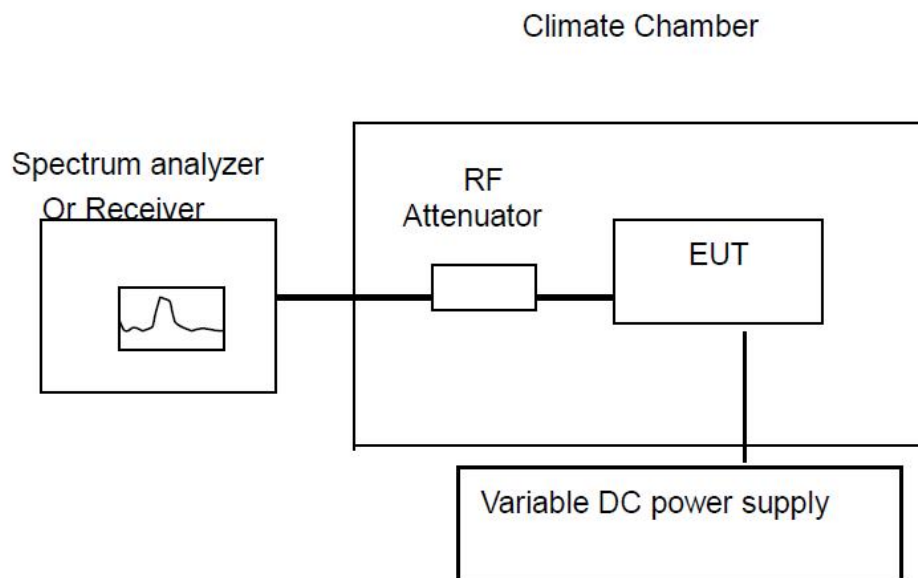
7.2 TEST PROCEDURE

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.

7.3 TEST SETUP



7.4 TEST RESULTS

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

Refernce Frequency: 530MHz			
Power supply	Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)
DC 3.14V	20	3343	6.307
DC 3.7V	20	3344	6.309
DC 4.25V	20	3344	6.309

Refernce Frequency: 530MHz				
Frequency Deviation measured with time Elapse(30 minutes)				
Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Results
50	3329	6.281	50	Pass
40	3358	6.336		
30	3321	6.266		
20	3357	6.334		
10	3357	6.334		
0	3329	6.281		
-10	3323	6.270		
-20	3356	6.332		

Refernce Frequency: 560MHz			
Power supply	Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)
DC 3.14V	20	3285	5.866
DC 3.7V	20	3292	5.879
DC 4.25V	20	3286	5.868

Refernce Frequency: 560MHz				
Frequency Deviation measured with time Elapse(30 minutes)				
Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Results
50	3285	5.866	50	Pass
40	3292	5.879		
30	3286	5.868		
20	3292	5.879		
10	3285	5.866		
0	3283	5.863		
-10	3286	5.868		
-20	3283	5.863		

Reference Frequency: 590MHz			
Power supply	Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)
DC 3.14V	20	3127	5.300
DC 3.7V	20	3126	5.298
DC 4.25V	20	3126	5.298

Reference Frequency: 590MHz				
Frequency Deviation measured with time Elapse(30 minutes)				
Environment Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Results
50	3126	5.298	50	Pass
40	3125	5.297		
30	3127	5.300		
20	3128	5.302		
10	3127	5.300		
0	3139	5.320		
-10	3128	5.302		
-20	3130	5.305		

7.5 ANTENNA REQUIREMENT

7.5.1 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.

7.5.2 EUT ANTENNA

The antennas used for this product are FPC antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is -1.81dBi.

※※※※END OF THE REPORT※※※※