FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

INMUSIC BRANDS INC

UHF PLL Wireless System

Model Number: STEALTH 1

Additional Model: TWR12, STEALTH********, TWR******
("*" can be "a-z", "A-Z", "0-9", blank, "-")

FCC ID: Y4O-TWR12

Prepared for:	INMUSIC BRANDS INC
	200 SCENIC VIEW DRIVE, SUITE 201, CUMBERLAND,
	Rhode Island 02864, United States
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
Tel: 86-769-83081888-808	

Report Number:	ESTE-R2109029
Date of Test:	Aug. 05~ 30, 2021
Date of Report:	Sep. 01, 2021

TABLE OF CONTENTS

Description Page

EST Technology Co., Ltd.

Applicant: **Address:**	INMUSIC BRANDS INC 200 SCENIC VIEW DRIVE, SUITE 201, CUMBERLAND, Rhode Island 02864, United States
Manufacturer: **Address:**	INMUSIC BRANDS INC 200 SCENIC VIEW DRIVE, SUITE 201, CUMBERLAND, Rhode Island 02864, United States
E.U.T:	UHF PLL Wireless System
Model Number:	STEALTH 1
Additional Model:	TWR12, STEALTH*******, TWR****** ("*" can be "a-z", "A-Z", "0-9", blank, "-") Note: All model numbers are identical each other except "**" can be any alphanumeric(s) or character(s) as "0-9" or "a-z" or blank to denote enclosure color, decorative part(s) and/or selling country difference et cetera.
Power Supply:	DC 1.5V From 1*AA batteries DC 5V From Adapter
Trade Name:	ALTO PROFESSIONAL Serial No.: ------
Date of Receipt:	Aug. 05, 2021 Date of Test: Aug. 05~ 30, 2021
Test Specification:	FCC Part 15 Subpart C (15.236) ANSI C63.10:2013
Test Result:	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. **Date:** Sep. 01, 2021

Prepared by:	Reviewed by:	Approved by:
Ring Yang / Assistant	Seven Wang / Engineer	Iceman Hu / Manager

Other Aspects:
None.

Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

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 EST Technology Co., Ltd.

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	UHF PLL Wireless System
Model Number	:	STEALTH 1
Software Version	:	V1.0
Hardware Version	:	V1.0
Operation frequency	:	542.125MHz~565.975MHz
Number of channel	:	16
Max Output Power (PEAK)	:	9.50dBm
Modulation Type	:	FM
Sample Type	:	Prototype production

Note:

For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

1.2. Antenna Information

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	Integral	-	0

2. SUMMARY OF TEST

2.1. Summary of test result

Report Section	Description of Test Item	FCC Standard Section	Results
3	Occupied Bandwidth	15.236(f)(2)	PASS
4	RF Output Power	15.236(d)(1)	PASS
5	Frequency Stability	15.236(f)(3)	PASS
6	Necessary Bandwidth	15.236(g)	PASS
7	Radiated Spurious Emissions	15.236(g)	PASS
8	AC Power Line Conducted Emissions	15.207	PASS
9	Antenna Requirement	15.203	PASS

Note:

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

2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA
Registration No.: L5288
This Certificate is valid until: November 12, 2023

Certificated by FCC, USA
Designation Number: CN1215
This Certificate is valid until: January 31, 2022

Certificated by A2LA, USA
Registration No.: 4366.01
This Certificate is valid until: January 31, 2022

Certificated by Industry Canada
CAB identifier No.: CN0035
This Certificate is valid until: January 31, 2022

Certificated by VCCI, Japan
Registration No.:C-14103; T-20073; R-13663; R-20103; G-20097
Date of registration: Apr. 20, 2020
This Certificate is valid until: Apr. 19, 2023

Certificated by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Certificated by Intertek
Registration No.: 2011-RTL-L2-64
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	±3.48dB
Uncertainty for spurious emissions test (30MHz-1GHz)	±4.60 dB(Polarize: H)
	±4.68 dB(Polarize: V)
Uncertainty for spurious emissions test (1GHz to 25GHz)	±4.96dB
Uncertainty for radio frequency	7×10^{-8}
Uncertainty for conducted RF Power	1.08dB
Uncertainty for Occupied Bandwidth test	1×10^{-7}

Note：This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.4. Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 1.5 meter high above ground.

EUT

DC 1.5V

(EUT: UHF PLL Wireless System)

2.6. Test Mode

The test mode was selected for the final test as listed below.

Test Item	Modulation Type	Test Channel
Occupied Bandwidth	FM	Low/Middle/High
RF Output Power	FM	Low/Middle/High
Frequency Stability	FM	Low/Middle/High
Necessary Bandwidth	FM	Low/Middle/High
Radiated Spurious Emissions(Below 1GHz)	FM	Low/Middle/High
Radiated Spurious Emissions(Above 1GHz)	FM	Low/Middle/High
AC Power Line Conducted Emissions	FM	Low/Middle/High

Note:

1. In radiated measurement,the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane.**

2.7. Power Setting of Test Software

Software Name	N/A		
Frequency(MHz)	542.125	554.000	565.975
Setting	Default	Default	Default

2.8. Channel List

Channel No.	Frequency (MHz)
0	542.125
1	543.625
2	545.050
3	546.425
4	546.900
5	549.525
6	551.100
7	552.475
8	554.000
9	556.075
A	558.975
B	559.975
C	561.050
D	562.975
E	564.425
F	565.975

2.9. Test Equipment List

For conducted emission test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 13,21	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 13,21	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 13,21	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emission test(9kHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 13,21	1 Year
Active Loop Antenna	SCHWAREBECK	FMZB 1519B	EST-E054	LISAI	June 13,21	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test (30MHz-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 13,21	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 13,21	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

For radiated emission test(Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA9120D	EST-E031	LISAI	June 13,21	1 Year
Signal Amplifier	SCHWARZBECK	BBV9718	EST-E032	LISAI	June 13,21	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV40	EST-E069	LISAI	July 19,21	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

For connect EUT antenna terminal test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Spectrum Analyzer	Rohde&Schwarz	FSV40	EST-E069	LISAI	July 19,21	1 Year

3. OCCUPIED BANDWIDTH

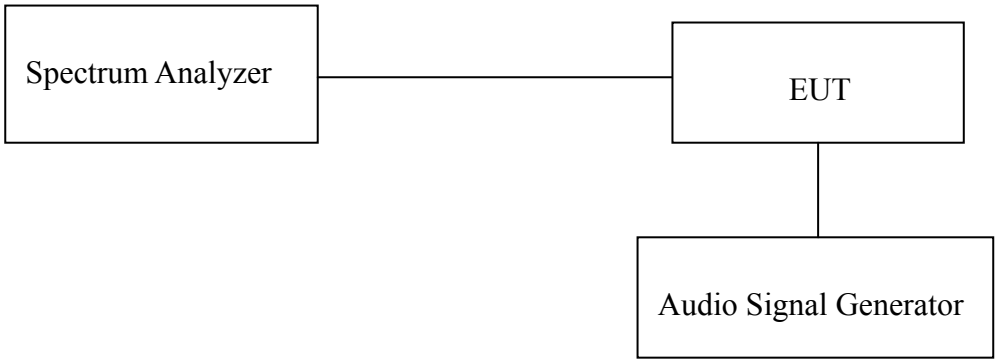
3.1. Limit

According to FCC 15.236(f), the operating frequency within a permissible band of operation as defined in paragraph (c) must comply with the following requirements.

(1) The frequency selection shall be offset from the upper or lower band limits by 25 kHz or an integral multiple thereof.

(2) One or more adjacent 25 kHz 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.

3.2. Test Setup



3.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	3KHz
VBW	10KHz
Span	500KHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

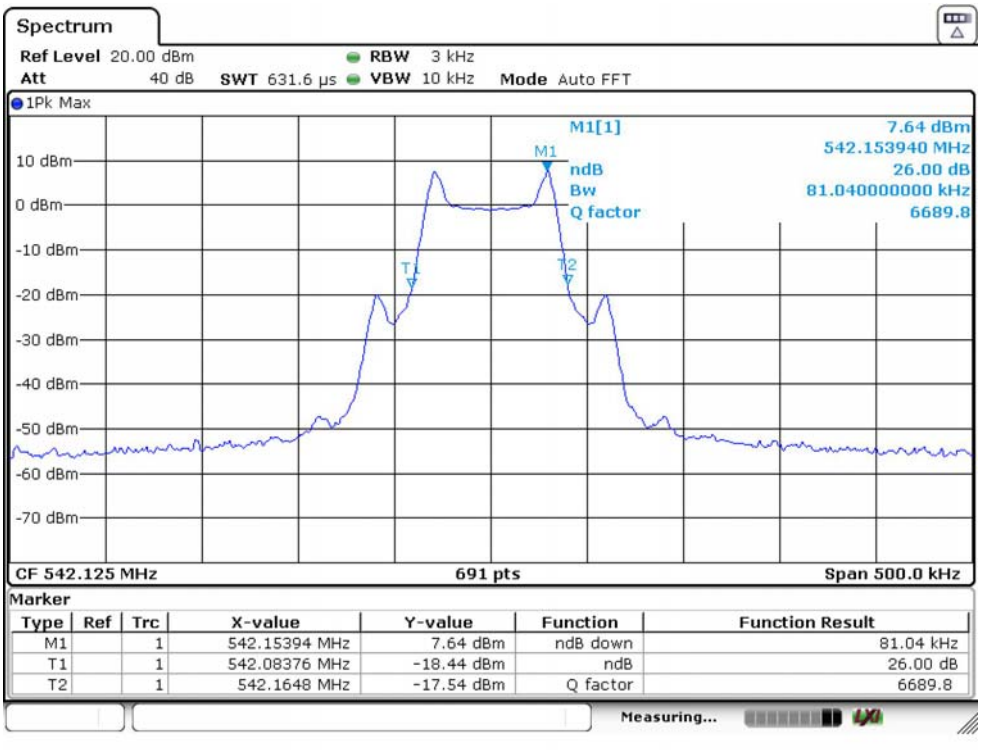
3.4. Test Procedure

According the ANSI C6.10-2013 section 6.9 for additional test set-up procedure, the occupied bandwidth of emission was measured with a spectrum analyzer connected to the antenna terminal while EUT was operating in 2.5KHz tone at an input level 16dB greater than necessary to produce 50 percent modulation. Then mark the -26dB Bandwidth and record it.

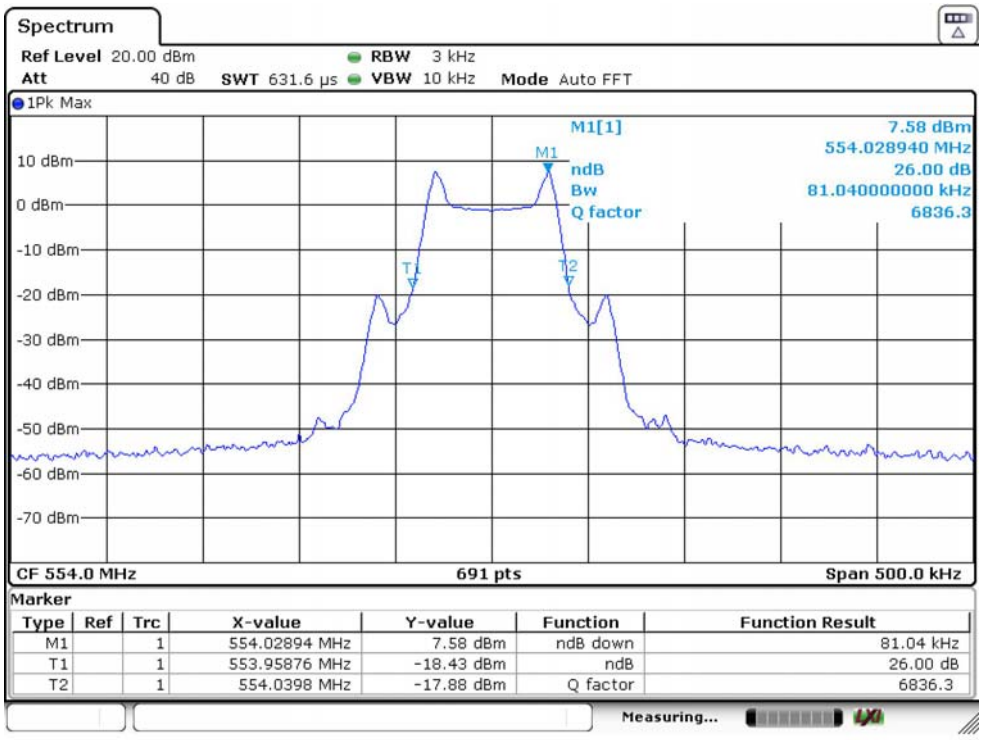
3.5. Test Result

Temperature	25.6℃	Relative Humidity	57%	
Test Voltage	DC 1.5V			
Mode	Freq (MHz)	26dB Bandwidth (KHz)	Limit (KHz)	Result
TX	542.125	81.04	200	PASS
	554.000	81.04	200	PASS
	565.975	81.04	200	PASS

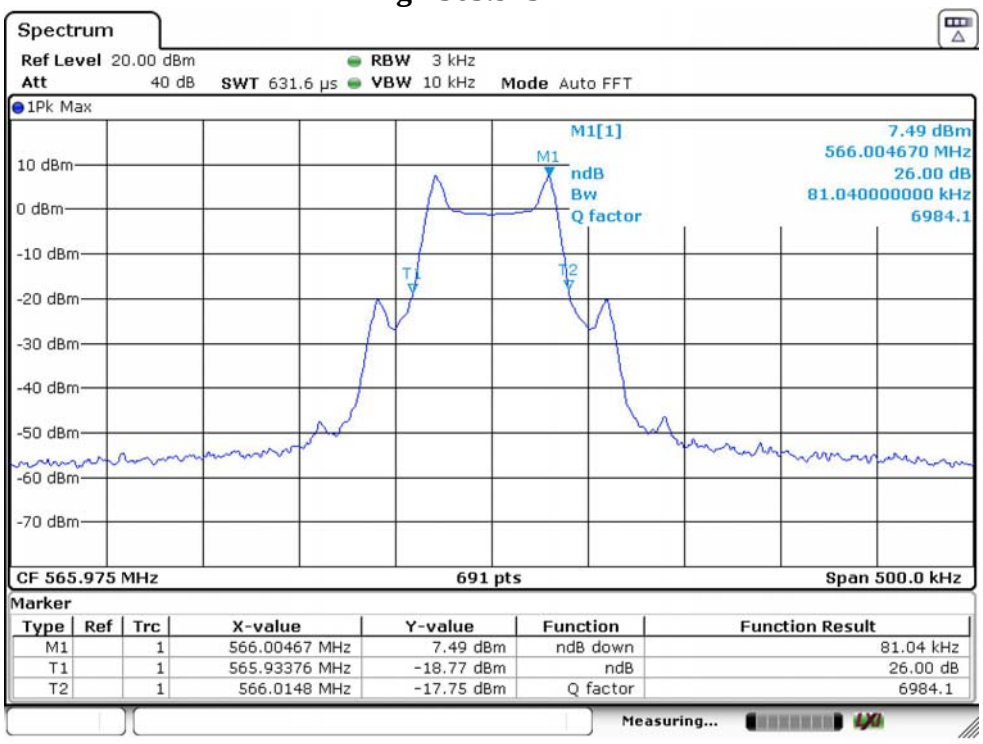
Low 542.125 MHz



Middle 554.000 MHz



High 565.975 MHz

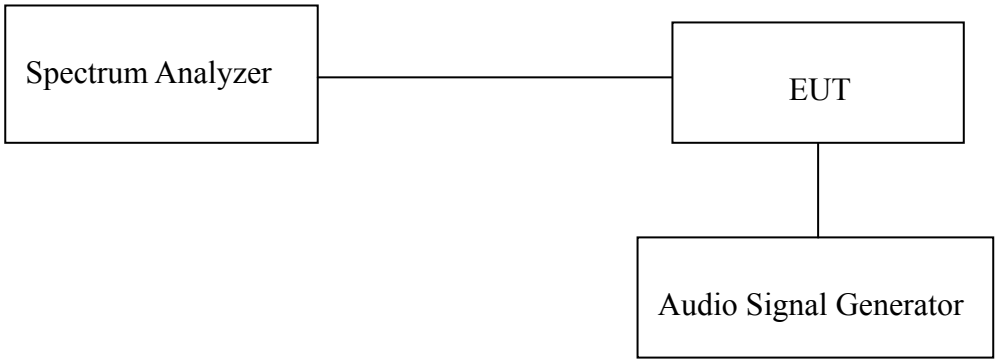


4. RF OUTPUT POWER

4.1. Limit

According to FCC 15.236(d)(1), for low power auxiliary station operating in the 470-608, and 614-698 MHz bands, In the bands allocated and assigned for broadcast television and in the 600 MHz service band: 50 mW EIRP.

4.2. Test Setup



4.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	≥Bandwidth
VBW	3*RBW
Span	≥3*Bandwidth
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

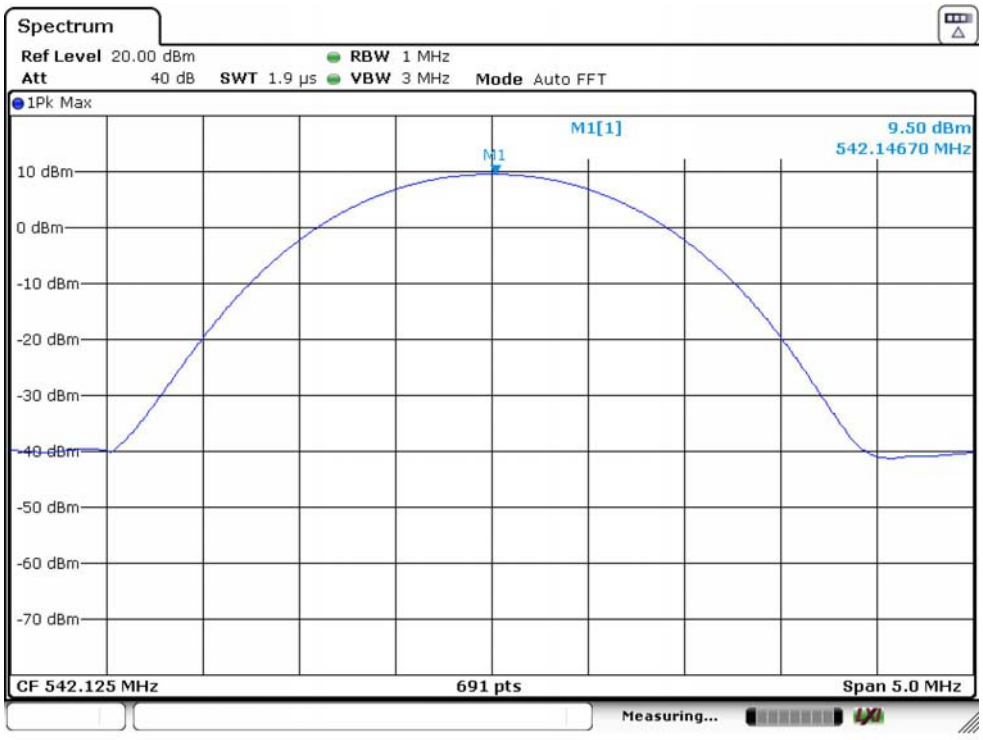
4.4. Test Procedure

a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
b. Spectrum analyzer setting parameters in accordance with section 4.3.
c. Set the EUT transmit continuously with maximum output power.
d. Allow trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission.
e. Repeat above procedures until all channels were measured.
f. Record the results in the test report.

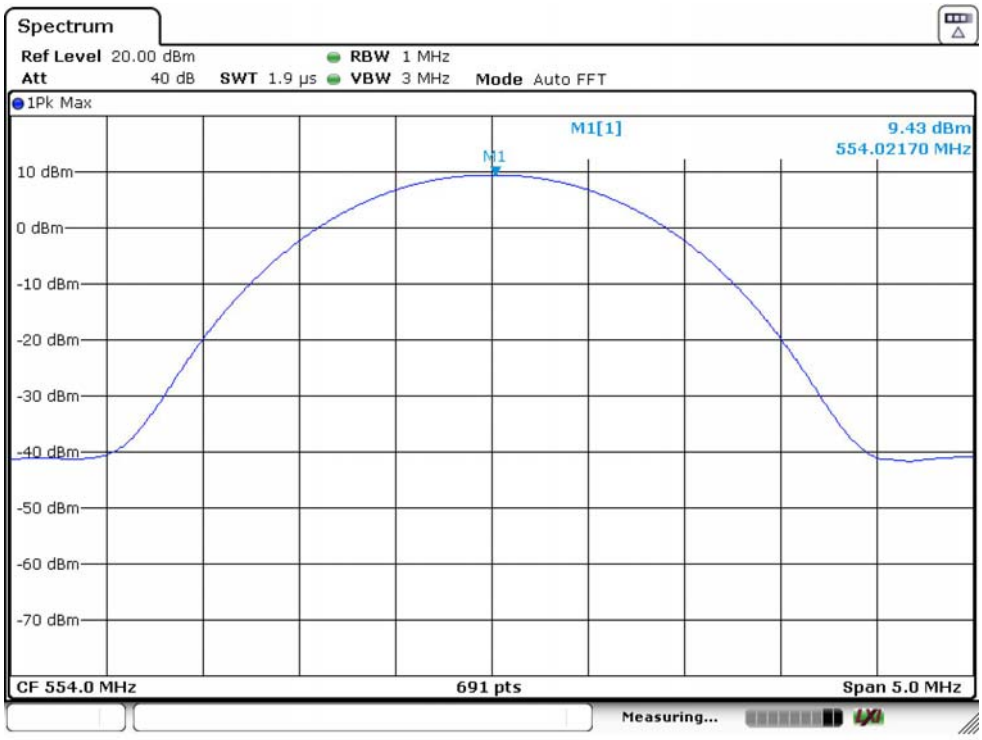
4.5. Test Result

Temperature	25.6℃	Relative Humidity	57%	Test Voltage		DC 1.5V
Mode	Freq (MHz)	Peak Output Power	Antenna Gain	EIRP	Limit	Result
		dBm	dBi	dBm	dBm	
TX	542.125	9.50	0	9.50	17	PASS
	554.000	9.43	0	9.43	17	PASS
	565.975	9.36	0	9.36	17	PASS

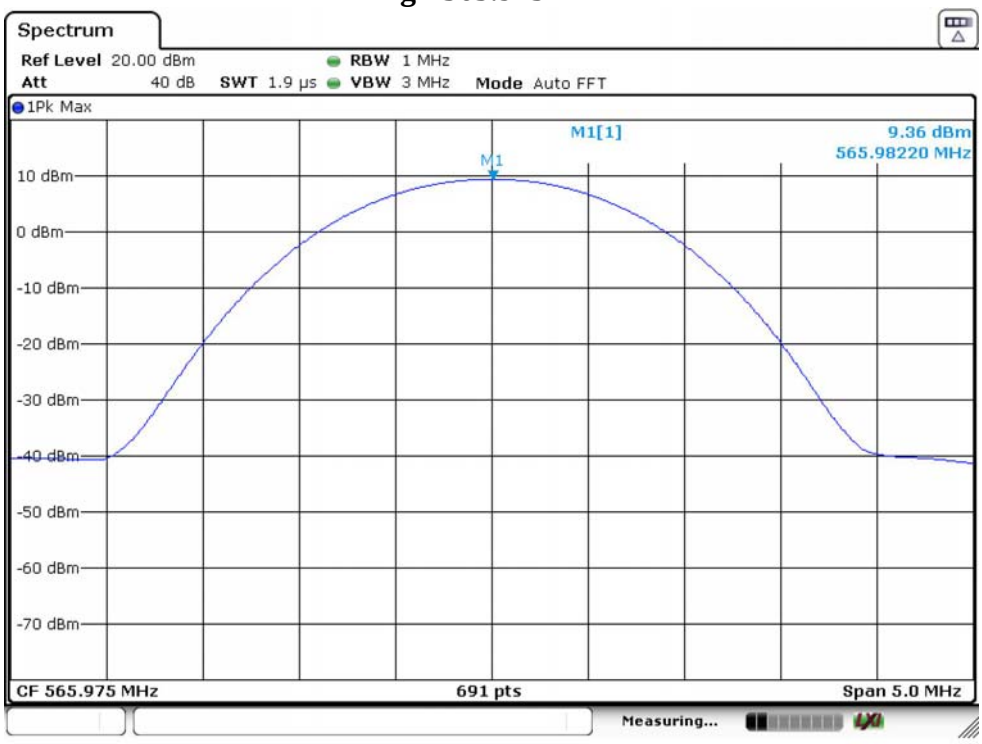
Low 542.125MHz



Middle 554.000MHz



High 565.975MHz

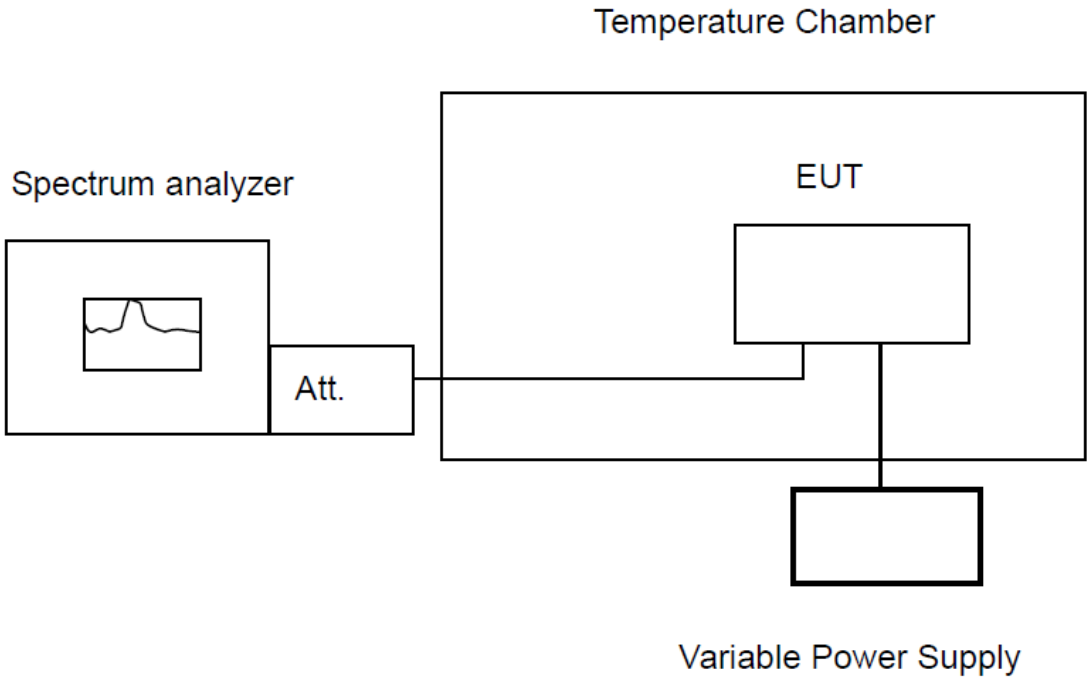


5. FREQUENCY STABILITY

5.1. Limit

According to FCC 15.236(f)(3), the frequency tolerance of the carrier signal shall be maintained within ±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. Battery operated equipment shall be tested using a new battery.

5.2. Test Setup



5.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	10KHz
VBW	10KHz
Span	200KHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

5.4. Test Procedure

For measurement frequency stability under temperature variation :

a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
b. Turn the EUT OFF and place it inside the environmental temperature chamber.
c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
d. Spectrum analyzer setting parameters in accordance with section 5.3.
e. Set the temperature control on the chamber to the Specified temperature and allow the oscillator heater and the chamber temperature to stabilize.

f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
g. Repeat step d through step f to measured the temperature form -20℃ to +50℃ in 10℃ steps.

For frequency stability under voltage variation:

a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
b. Turn the EUT OFF and place it inside the environmental temperature chamber.
c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
d. Spectrum analyzer setting parameters in accordance with section 5.3.
e. Unless otherwise specified, set the temperature control on the chamber to the ambient room temperature (+20℃) and allow the oscillator heater and the chamber temperature to stabilize.
f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
g. Repeat step d through step f to measured the varied from 85% to 115% of the rated voltage.

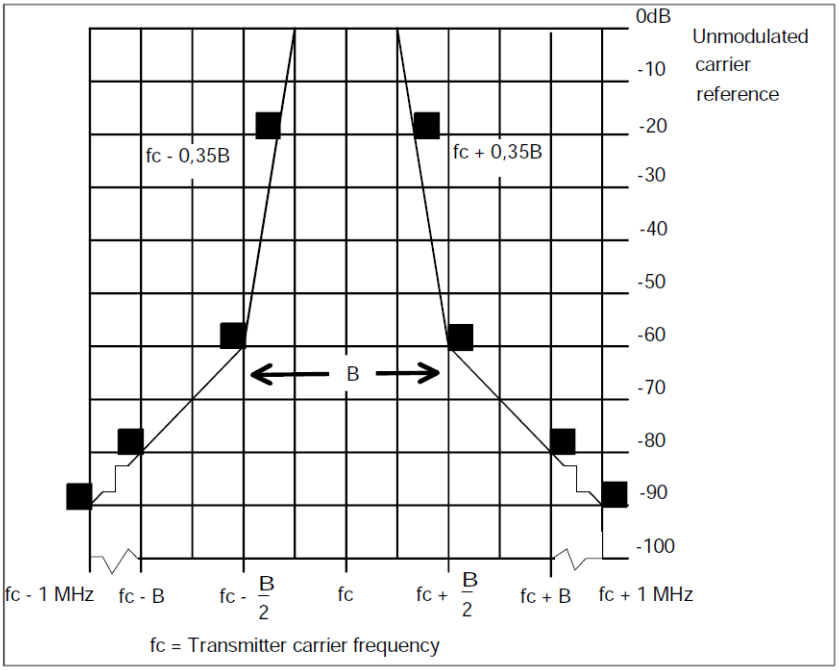
5.5. Test Result

Worst case at Low channel					
Frequency (MHz)	Voltage (VDC)	Temperature (℃)	Measurement Value (MHz)	Frequency Error (ppm)	Limit (ppm)
542.125	1.5	+50	542.12471	-0.53	±50
		+40	542.12486	-0.26	
		+30	542.12471	-0.53	
		+20	542.12500	0.00	
		+10	542.12471	-0.53	
		0	542.12500	0.00	
		-10	542.12486	-0.26	
		-20	542.12500	0.00	
	1.275	+20	542.12486	-0.26	
	1.725	+20	542.12471	-0.53	

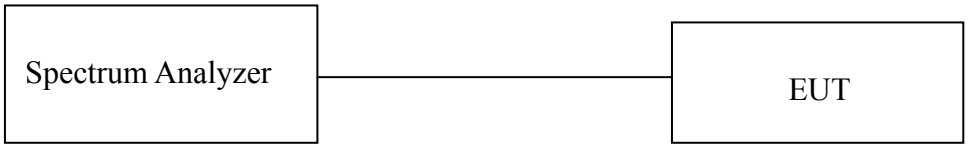
6. NECESSARY BANDWIDTH

6.1. Limit

According to §15.236(g), emissions within the band from one megahertz below to one megahertz above the carrier frequency shall comply with the emission mask in §8.3 of ETSI EN 300 422-1 V1.4.2 (2011-08), Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 1: Technical characteristics and methods of measurement. Emissions outside of this band shall comply with the limits specified in section 8.4 of ETSI EN 300 422-1 V1.4.2 (2011-08).



6.2. Test Setup



6.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1KHz
VBW	1KHz
Span	2MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

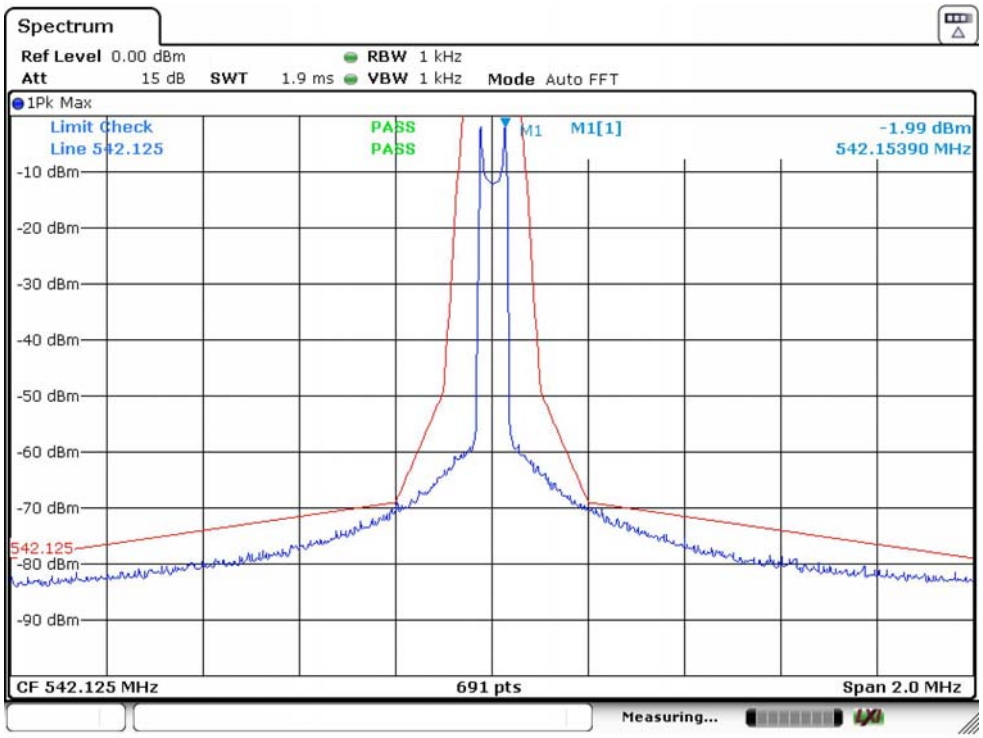
6.4. Test Procedure

Please refer to ETSI EN 300 422-1 section 8.3.

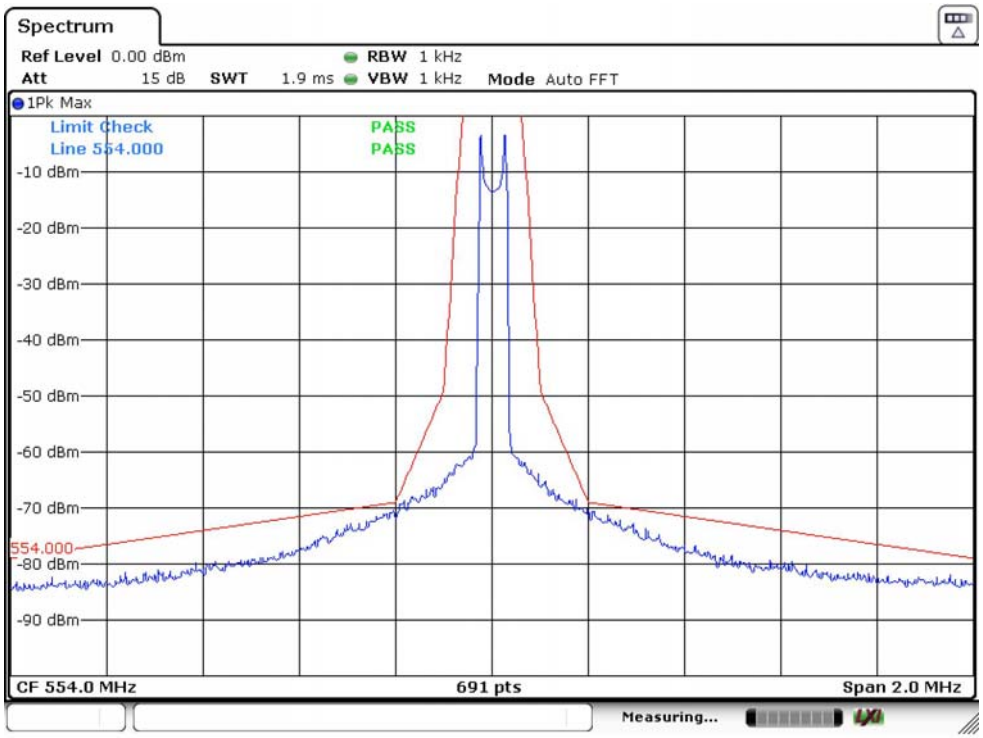
6.5. Test Result

Temperature	25.6℃	Relative Humidity	57%	Test Voltage	DC 1.5V
Result	PASS				

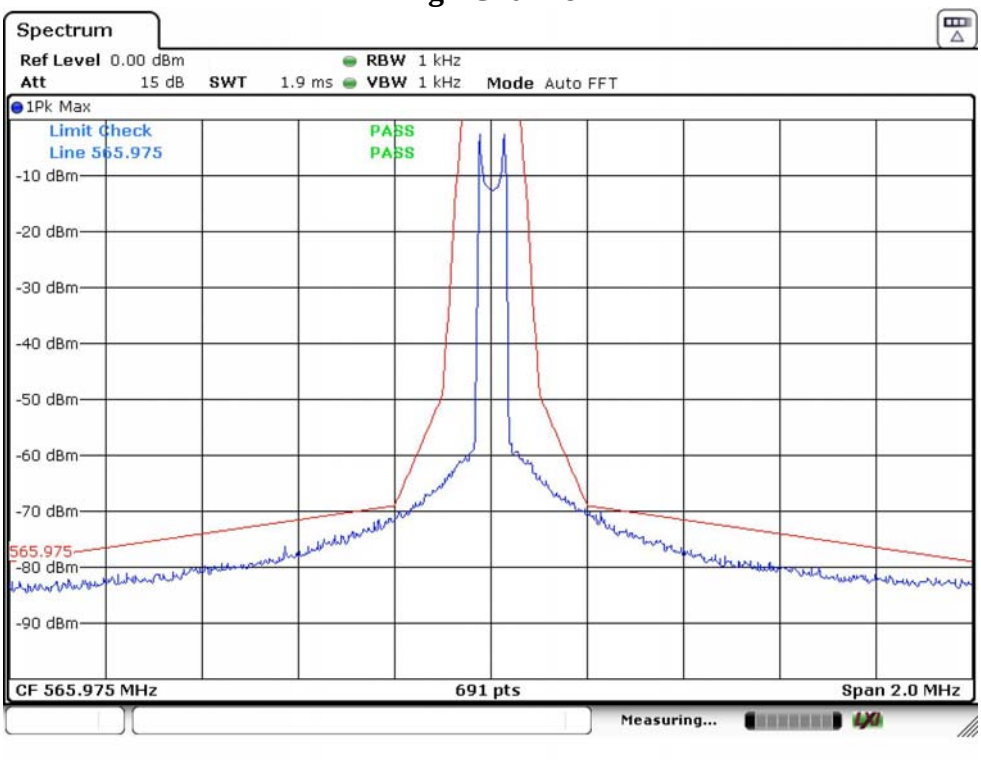
Low Channel



Middle Channel



High Channel

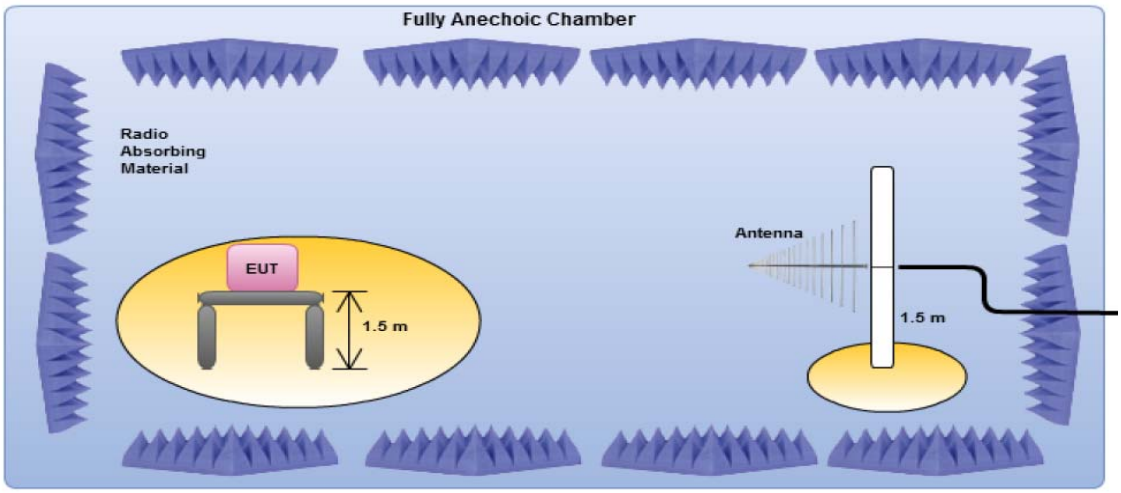


7. RADIATED SPURIOUS EMISSIONS

7.1. Limit

According to FCC 15.236(g), emission within the band from one megahertz below to one megahertz above the carrier frequency shall comply with the Spurious emissions in Section 8.4 of ETSI EN 300422-1. Emissions outside this band shall comply with the limit specified at the edges of the ETSI mask.

7.2. Test Setup



7.3. Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	PEAK/QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	10Hz
Start frequency	1GHz	
Stop frequency	6GHz	
Sweep Time	Auto	
Detector	PEAK/AV	
Trace Mode	Max Hold	

7.4. Test Procedure

a. EUT was placed on a turn table, which is 1.5 meter high above ground.
b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
c. Set the EUT transmit continuously with maximum output power.
d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
f. Spectrum analyzer setting parameters in accordance with section 7.3.
g. Repeat above procedures until all channels were measured.
h. Record the results in the test report.

Note:

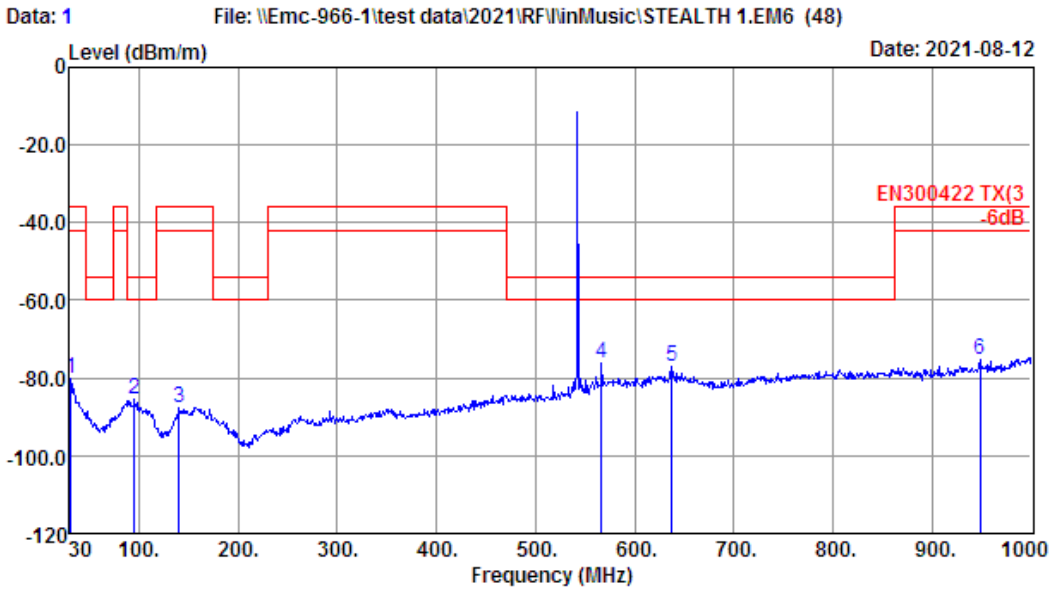
1. The frequency 542.125MHz ,554.000MHz and 565.975MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

7.5. Test Result

Radiated Emissions Below 1GHz

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



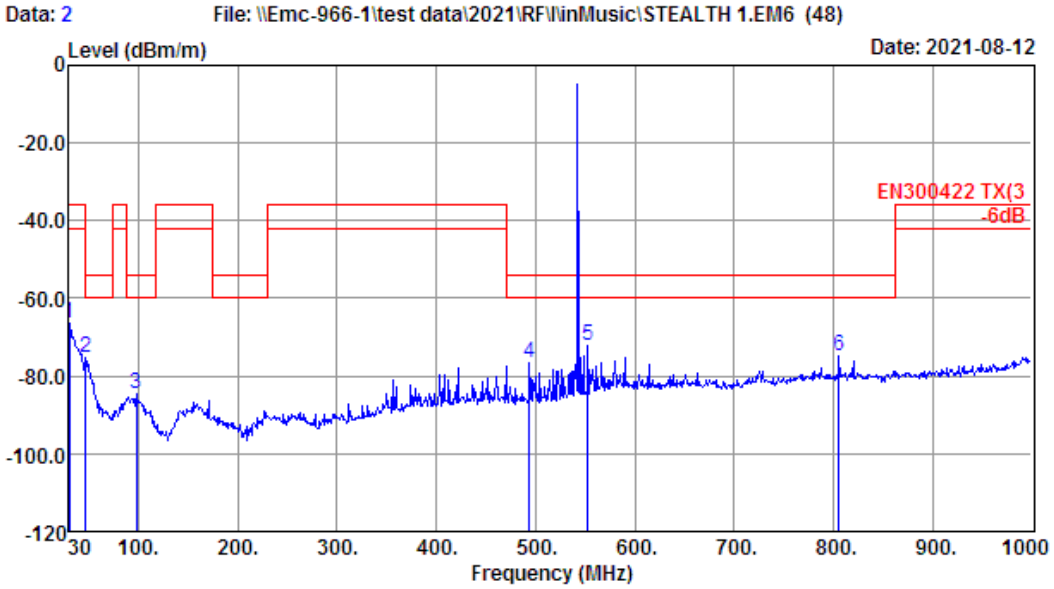
Site no. : 1# 966 Chamber Data no. : 1
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : EN300422 TX(3
Env. / Ins. : Temp:23.4';Humi:51%;Press:101.52kPa
Engineer : XJF
EUT : UHF PLL Wireless System
Power : DC 1.5V From Battery
M/N : STEALTH 1
Test Mode : TX 542.125MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Site Loss (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Type
1	30.97	17.60	0.14	-106.99	8.90	-80.35	-36.00	44.35	eirp
2	94.99	9.50	0.82	-106.80	10.95	-85.53	-54.00	31.53	eirp
3	140.58	12.37	1.04	-107.02	6.03	-87.58	-36.00	51.58	eirp
4	566.41	19.86	2.87	-101.41	2.64	-76.04	-54.00	22.04	eirp
5	637.22	21.21	3.15	-104.08	2.83	-76.89	-54.00	22.89	eirp
6	948.59	24.58	4.51	-105.17	0.88	-75.20	-36.00	39.20	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss+Site Loss
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



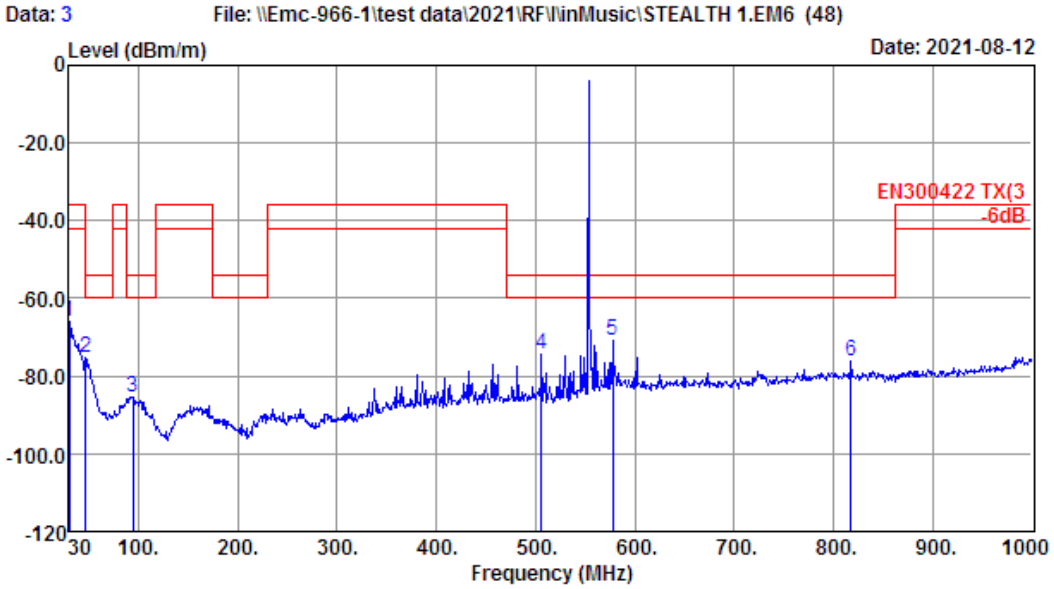

```
Site no.      : 1# 966 Chamber              Data no.  : 2
Dis. / Ant.   : 3m   37062                  Ant. pol. : HORIZONTAL
Limit         : EN300422 TX(3
Env. / Ins.   : Temp:23.4';Humi:51%;Press:101.52kPa
Engineer      : XJF
EUT           : UHF PLL Wireless System
Power         : DC 1.5V From Battery
M/N           : STEALTH 1
Test Mode     : TX 542.125MHz
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Site Loss (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Type
1	30.00	18.40	0.14	-108.08	22.90	-66.64	-36.00	30.64	eirp
2	46.49	9.70	0.27	-107.56	22.19	-75.40	-36.00	39.40	eirp
3	97.90	9.62	0.84	-106.19	11.33	-84.40	-54.00	30.40	eirp
4	493.66	18.17	2.66	-97.96	0.60	-76.53	-54.00	22.53	eirp
5	552.83	19.24	2.85	-94.63	0.43	-72.11	-54.00	18.11	eirp
6	806.00	23.08	3.62	-102.44	0.73	-75.01	-54.00	21.01	eirp

```
Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss+Site Loss
         2. Margin= Limit - Emission Level.
         3. The emission levels that are 20dB below the official
            limit are not reported.
```

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



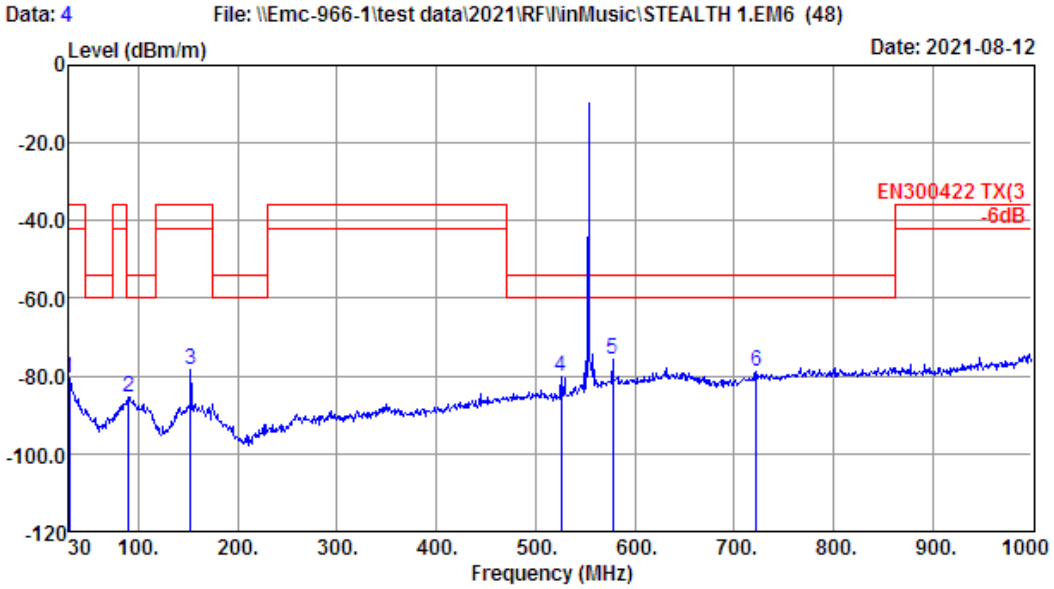
Site no. : 1# 966 Chamber Data no. : 3
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : EN300422 TX(3
Env. / Ins. : Temp:23.4';Humi:51%;Press:101.52kPa
Engineer : XJF
EUT : UHF PLL Wireless System
Power : DC 1.5V From Battery
M/N : STEALTH 1
Test Mode : TX 554.000MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Site Loss (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Type
1	30.00	18.40	0.14	-107.49	22.90	-66.05	-36.00	30.05	eirp
2	46.49	9.70	0.27	-107.59	22.19	-75.43	-36.00	39.43	eirp
3	94.02	9.46	0.81	-107.60	11.86	-85.47	-54.00	31.47	eirp
4	506.27	18.42	2.69	-95.88	0.33	-74.44	-54.00	20.44	eirp
5	578.05	19.98	2.92	-95.30	1.52	-70.88	-54.00	16.88	eirp
6	817.64	23.28	3.70	-103.47	0.51	-75.98	-54.00	21.98	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss+Site Loss
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



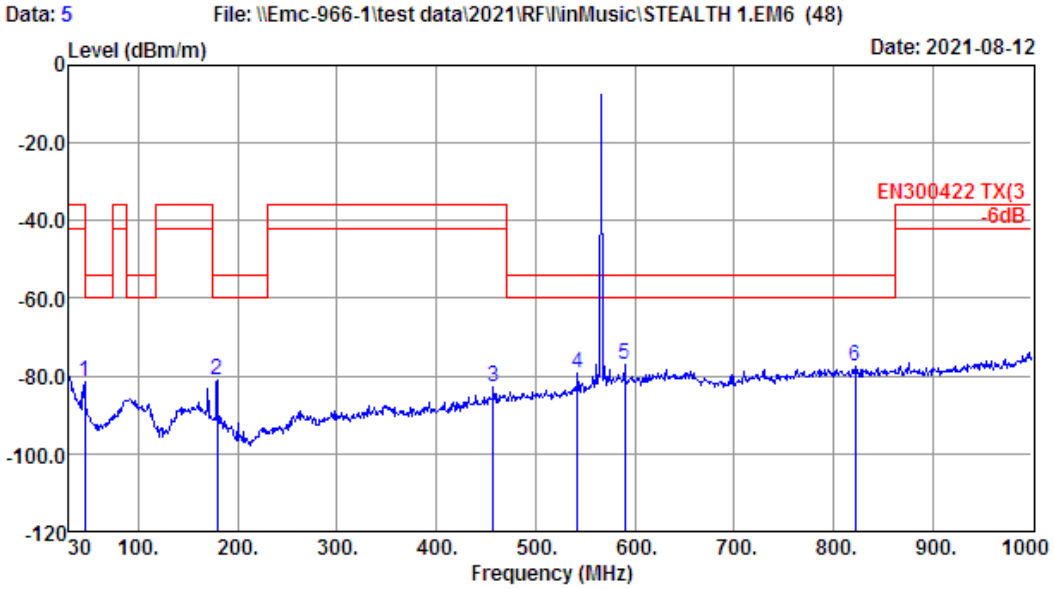

```
Site no.      : 1# 966 Chamber              Data no.  : 4
Dis. / Ant.   : 3m   37062                  Ant. pol. : VERTICAL
Limit         : EN300422 TX(3
Env. / Ins.   : Temp:23.4';Humi:51%;Press:101.52kPa
Engineer      : XJF
EUT           : UHF PLL Wireless System
Power         : DC 1.5V From Battery
M/N           : STEALTH 1
Test Mode     : TX 554.000MHz
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Site Loss (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Type
1	30.00	18.40	0.14	-108.04	8.89	-80.61	-36.00	44.61	eirp
2	90.14	9.30	0.79	-107.91	12.41	-85.41	-54.00	31.41	eirp
3	152.22	11.48	1.09	-98.05	7.15	-78.33	-36.00	42.33	eirp
4	525.67	18.64	2.76	-102.83	1.27	-80.16	-54.00	26.16	eirp
5	578.05	19.98	2.92	-101.62	2.85	-75.87	-54.00	21.87	eirp
6	722.58	21.70	3.51	-105.45	1.45	-78.79	-54.00	24.79	eirp

```
Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss+Site Loss
         2. Margin= Limit - Emission Level.
         3. The emission levels that are 20dB below the official
            limit are not reported.
```

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



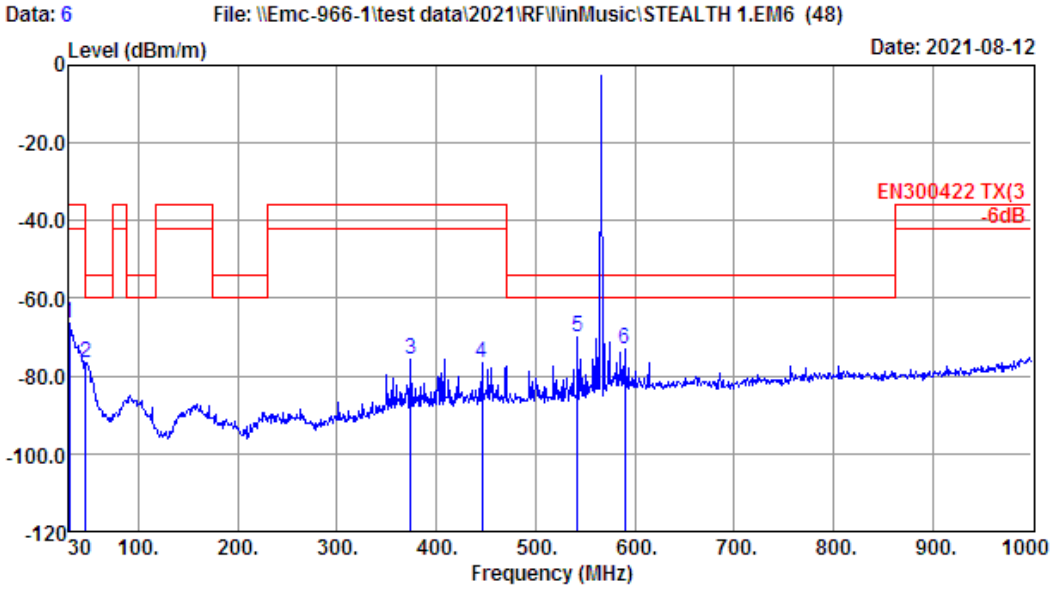
Site no. : 1# 966 Chamber Data no. : 5
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : EN300422 TX(3
Env. / Ins. : Temp:23.4';Humi:51%;Press:101.52kPa
Engineer : XJF
EUT : UHF PLL Wireless System
Power : DC 1.5V From Battery
M/N : STEALTH 1
Test Mode : TX 565.975MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Site Loss (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Type
1	45.52	9.80	0.26	-100.65	9.11	-81.48	-36.00	45.48	eirp
2	179.38	9.55	1.21	-98.12	6.20	-81.16	-54.00	27.16	eirp
3	457.77	17.46	2.57	-104.36	1.45	-82.88	-36.00	46.88	eirp
4	542.16	19.08	2.80	-102.99	1.67	-79.44	-54.00	25.44	eirp
5	589.69	20.30	2.95	-102.81	2.64	-76.92	-54.00	22.92	eirp
6	822.49	23.33	3.72	-105.57	1.10	-77.42	-54.00	23.42	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss+Site Loss
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878




```
Site no.      : 1# 966 Chamber              Data no.  : 6
Dis. / Ant.   : 3m   37062                  Ant. pol. : HORIZONTAL
Limit         : EN300422 TX(3
Env. / Ins.   : Temp:23.4';Humi:51%;Press:101.52kPa
Engineer      : XJF
EUT           : UHF PLL Wireless System
Power         : DC 1.5V From Battery
M/N           : STEALTH 1
Test Mode     : TX 565.975MHz
```

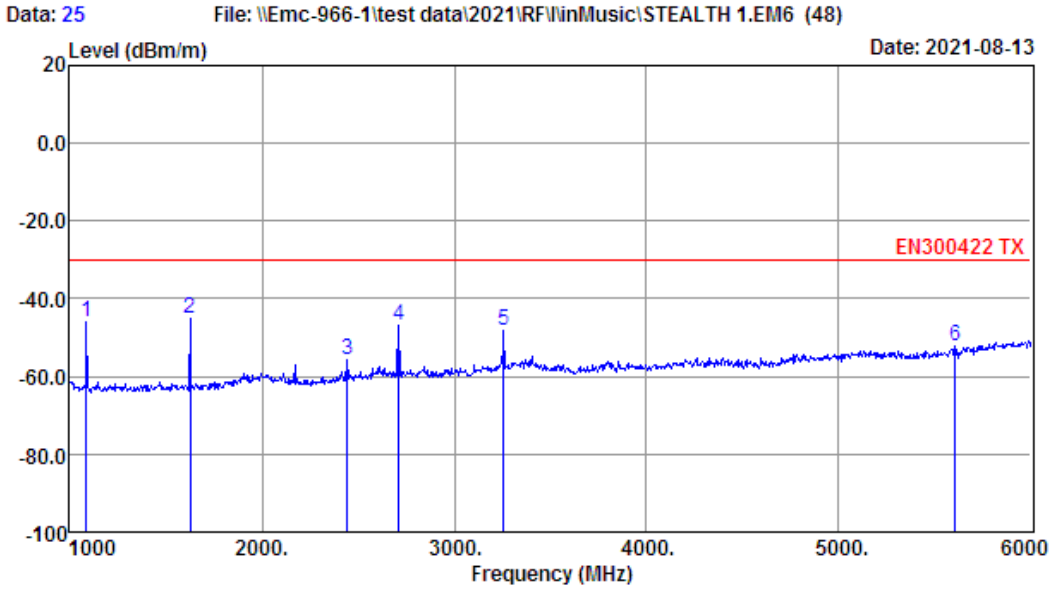
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Site Loss (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Type
1	30.00	18.40	0.14	-107.71	22.90	-66.27	-36.00	30.27	eirp
2	46.49	9.70	0.27	-108.62	22.19	-76.46	-36.00	40.46	eirp
3	374.35	15.56	2.19	-94.43	1.01	-75.67	-36.00	39.67	eirp
4	446.13	17.14	2.51	-97.43	1.22	-76.56	-36.00	40.56	eirp
5	542.16	19.08	2.80	-91.74	0.05	-69.81	-54.00	15.81	eirp
6	589.69	20.30	2.95	-97.65	1.32	-73.08	-54.00	19.08	eirp

```
Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss+Site Loss
         2. Margin= Limit - Emission Level.
         3. The emission levels that are 20dB below the official
            limit are not reported.
```

Radiated Emissions Above 1G

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



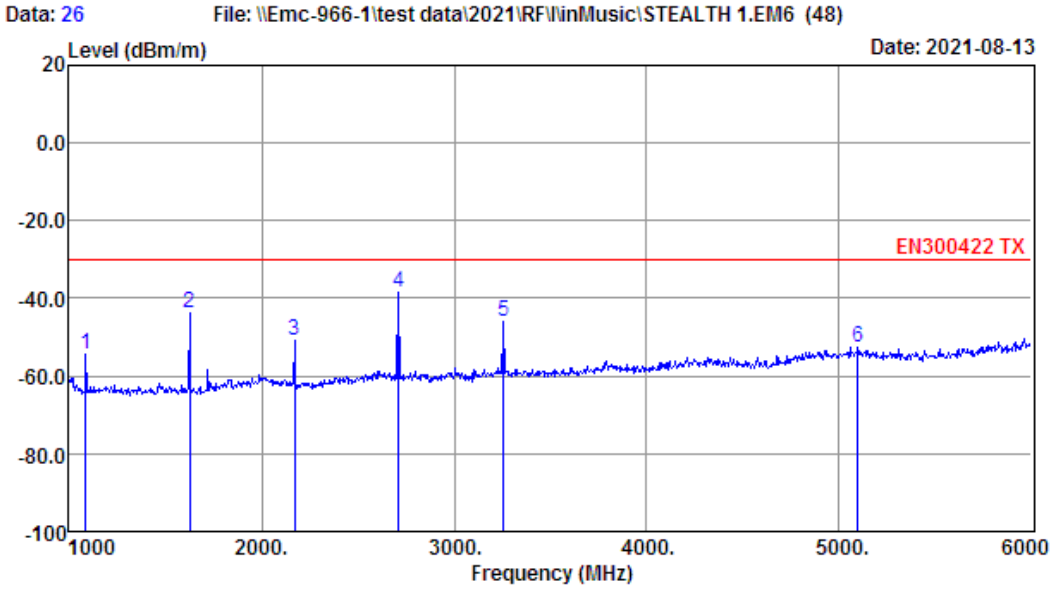
Site no. : 1# 966 Chamber Data no. : 25
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : EN300422 TX
Env. / Ins. : Temp:24.2';Humi:54%;Press:101.52kPa
Engineer : DUO
EUT : UHF PLL Wireless System
Power : DC 1.5V From Battery
M/N : STEALTH 1
Test Mode : TX 542.125MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Site Loss (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Type
1	1085.00	24.51	1.07	-83.30	11.84	-45.88	-30.00	15.88	eirp
2	1625.00	25.30	1.18	-82.53	11.05	-45.00	-30.00	15.00	eirp
3	2445.00	27.33	1.47	-94.63	10.04	-55.79	-30.00	25.79	eirp
4	2710.00	27.92	1.79	-86.67	9.94	-47.02	-30.00	17.02	eirp
5	3255.00	28.76	2.55	-89.98	10.30	-48.37	-30.00	18.37	eirp
6	5605.00	32.88	3.84	-95.96	7.21	-52.03	-30.00	22.03	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss+Site Loss
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



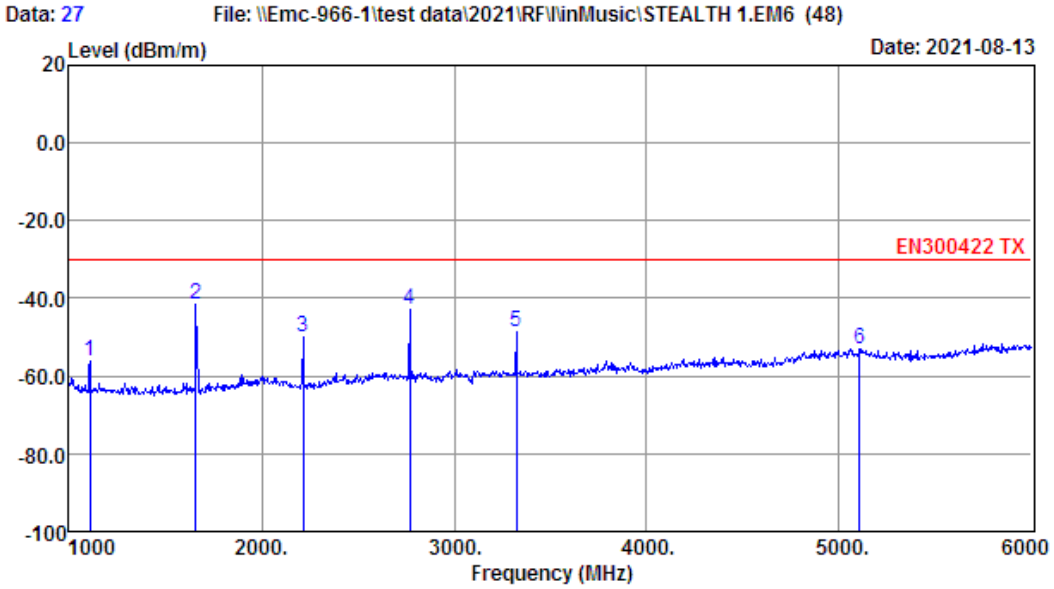

```
Site no.      : 1# 966 Chamber              Data no.  : 26
Dis. / Ant.   : 3m   ANT9120D 1-18G         Ant. pol. : VERTICAL
Limit         : EN300422 TX
Env. / Ins.   : Temp:24.2';Humi:54%;Press:101.52kPa
Engineer      : DUO
EUT           : UHF PLL Wireless System
Power         : DC 1.5V From Battery
M/N           : STEALTH 1
Test Mode     : TX 542.125MHz
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Site Loss (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Type
1	1085.00	24.51	1.07	-91.53	11.73	-54.22	-30.00	24.22	eirp
2	1625.00	25.30	1.18	-80.94	10.62	-43.84	-30.00	13.84	eirp
3	2170.00	26.94	1.36	-89.01	9.65	-51.06	-30.00	21.06	eirp
4	2710.00	27.92	1.79	-77.54	9.34	-38.49	-30.00	8.49	eirp
5	3255.00	28.76	2.55	-85.83	8.76	-45.76	-30.00	15.76	eirp
6	5095.00	32.02	3.47	-97.04	9.00	-52.55	-30.00	22.55	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss+Site Loss
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878




```
Site no.      : 1# 966 Chamber              Data no.  : 27
Dis. / Ant.   : 3m   ANT9120D 1-18G         Ant. pol. : VERTICAL
Limit         : EN300422 TX
Env. / Ins.   : Temp:24.2';Humi:54%;Press:101.52kPa
Engineer      : DUO
EUT           : UHF PLL Wireless System
Power         : DC 1.5V From Battery
M/N           : STEALTH 1
Test Mode     : TX 554.000MHz
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Site Loss (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Type
1	1110.00	24.55	1.07	-93.42	11.55	-56.25	-30.00	26.25	eirp
2	1660.00	25.40	1.19	-78.79	10.49	-41.71	-30.00	11.71	eirp
3	2215.00	26.99	1.37	-87.79	9.29	-50.14	-30.00	20.14	eirp
4	2770.00	28.04	1.86	-81.97	9.07	-43.00	-30.00	13.00	eirp
5	3325.00	28.80	2.65	-88.74	8.53	-48.76	-30.00	18.76	eirp
6	5105.00	32.02	3.47	-97.46	9.00	-52.97	-30.00	22.97	eirp

```
Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss+Site Loss
         2. Margin= Limit - Emission Level.
         3. The emission levels that are 20dB below the official
            limit are not reported.
```

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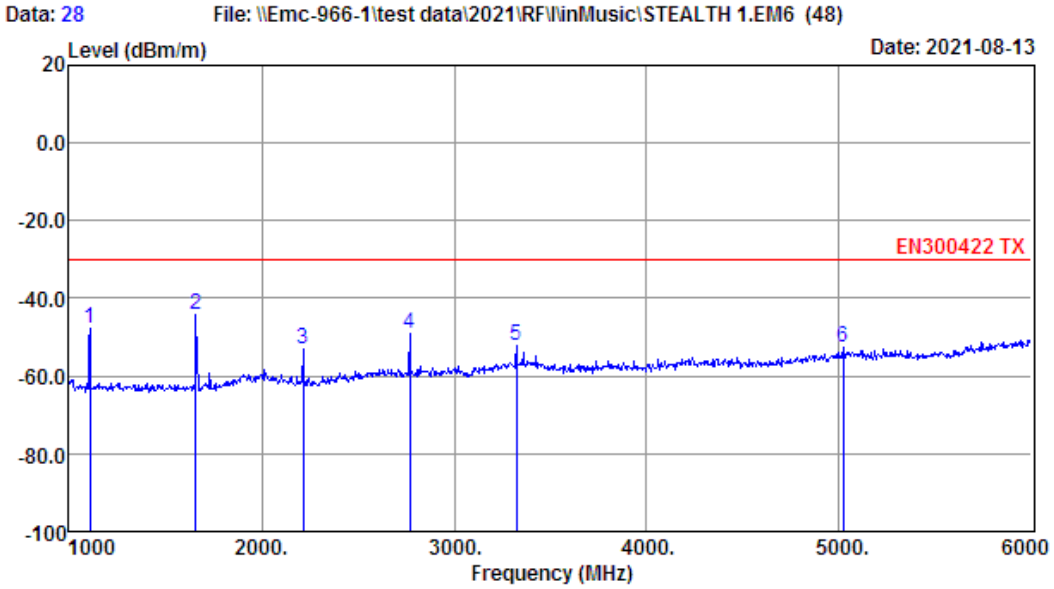
Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



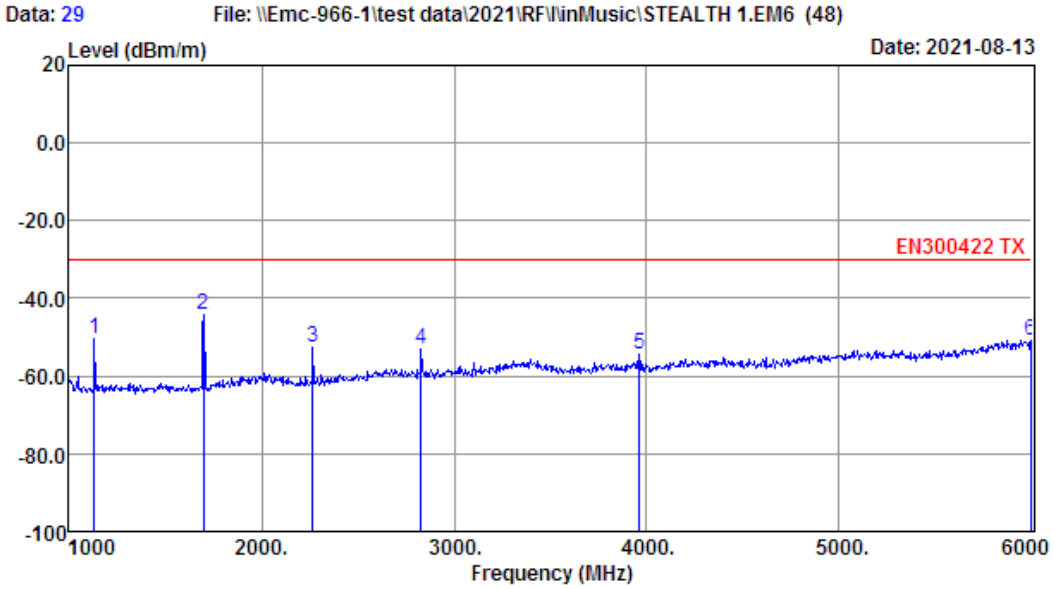

```
Site no.      : 1# 966 Chamber              Data no.  : 28
Dis. / Ant.   : 3m   ANT9120D 1-18G         Ant. pol. : HORIZONTAL
Limit         : EN300422 TX
Env. / Ins.   : Temp:24.2';Humi:54%;Press:101.52kPa
Engineer      : DUO
EUT           : UHF PLL Wireless System
Power         : DC 1.5V From Battery
M/N           : STEALTH 1
Test Mode     : TX 554.000MHz
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Site Loss (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Type
1	1110.00	24.55	1.07	-85.02	11.81	-47.59	-30.00	17.59	eirp
2	1660.00	25.40	1.19	-81.60	10.94	-44.07	-30.00	14.07	eirp
3	2215.00	26.99	1.37	-91.43	9.79	-53.28	-30.00	23.28	eirp
4	2770.00	28.04	1.86	-88.61	9.65	-49.06	-30.00	19.06	eirp
5	3325.00	28.80	2.65	-94.09	10.55	-52.09	-30.00	22.09	eirp
6	5020.00	31.84	3.42	-95.92	8.03	-52.63	-30.00	22.63	eirp

```
Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss+Site Loss
         2. Margin= Limit - Emission Level.
         3. The emission levels that are 20dB below the official
            limit are not reported.
```

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



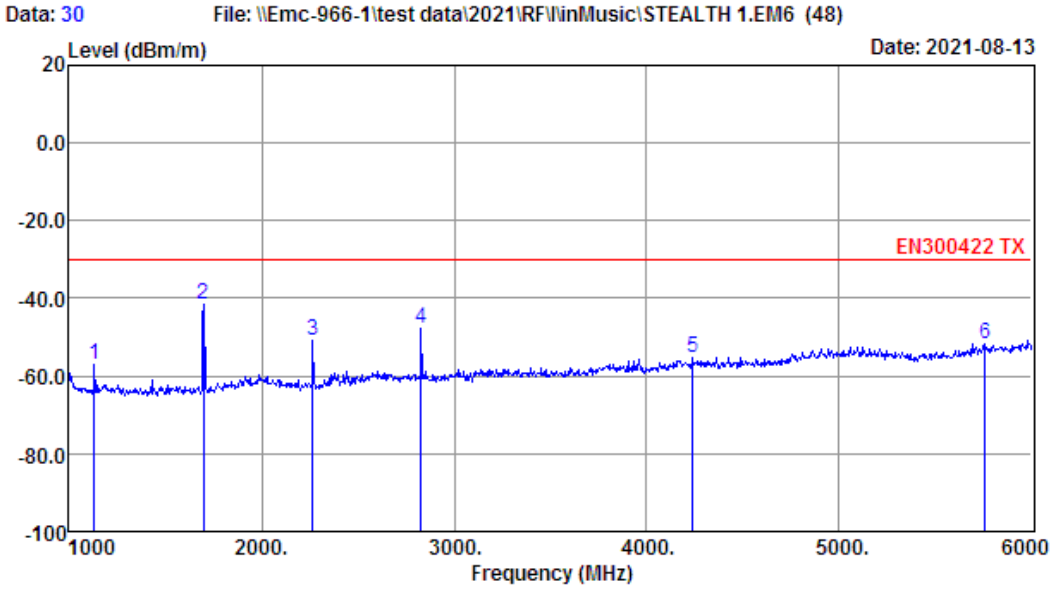
Site no. : 1# 966 Chamber Data no. : 29
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : EN300422 TX
Env. / Ins. : Temp:24.2';Humi:54%;Press:101.52kPa
Engineer : DUO
EUT : UHF PLL Wireless System
Power : DC 1.5V From Battery
M/N : STEALTH 1
Test Mode : TX 565.975MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Site Loss (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Type
1	1130.00	24.63	1.07	-87.88	11.92	-50.26	-30.00	20.26	eirp
2	1700.00	25.50	1.20	-81.71	10.83	-44.18	-30.00	14.18	eirp
3	2265.00	27.06	1.39	-90.87	9.66	-52.76	-30.00	22.76	eirp
4	2830.00	28.20	1.96	-92.91	9.61	-53.14	-30.00	23.14	eirp
5	3960.00	29.74	2.91	-95.39	8.46	-54.28	-30.00	24.28	eirp
6	5995.00	32.80	4.32	-96.41	8.46	-50.83	-30.00	20.83	eirp

Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss+Site Loss
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878




```
Site no.      : 1# 966 Chamber              Data no.  : 30
Dis. / Ant.   : 3m   ANT9120D 1-18G         Ant. pol. : VERTICAL
Limit         : EN300422 TX
Env. / Ins.   : Temp:24.2';Humi:54%;Press:101.52kPa
Engineer      : DUO
EUT           : UHF PLL Wireless System
Power         : DC 1.5V From Battery
M/N           : STEALTH 1
Test Mode     : TX 565.975MHz
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBm)	Site Loss (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Type
1	1130.00	24.63	1.07	-94.23	11.69	-56.84	-30.00	26.84	eirp
2	1700.00	25.50	1.20	-78.65	10.36	-41.59	-30.00	11.59	eirp
3	2265.00	27.06	1.39	-88.40	9.25	-50.70	-30.00	20.70	eirp
4	2830.00	28.20	1.96	-87.02	8.92	-47.94	-30.00	17.94	eirp
5	4240.00	29.90	2.95	-96.69	8.61	-55.23	-30.00	25.23	eirp
6	5755.00	32.85	4.03	-96.00	7.58	-51.54	-30.00	21.54	eirp

```
Remarks: 1. Emission Level= Reading+Antenna Factor+Cable Loss+Site Loss
         2. Margin= Limit - Emission Level.
         3. The emission levels that are 20dB below the official
            limit are not reported.
```

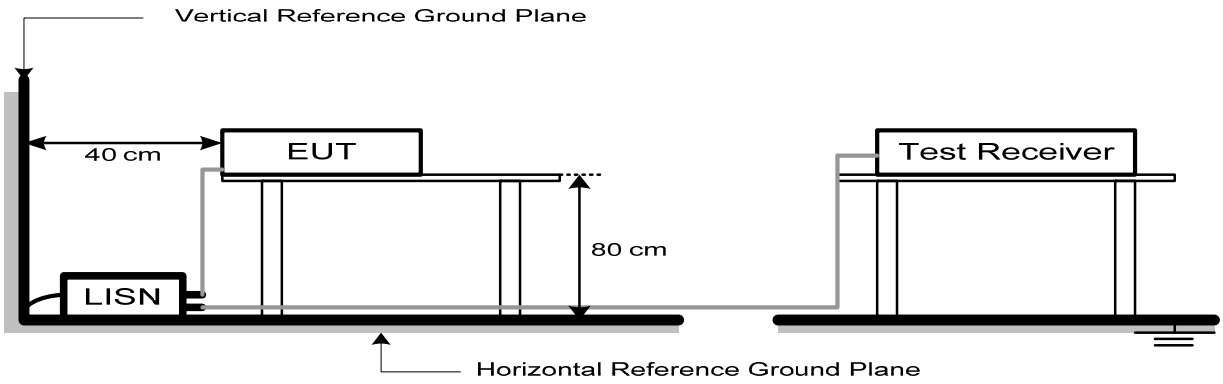
8. AC POWER LINE CONDUCTED EMISSIONS

8.1. Limit

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

Note:
1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

8.2. Test Setup



8.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

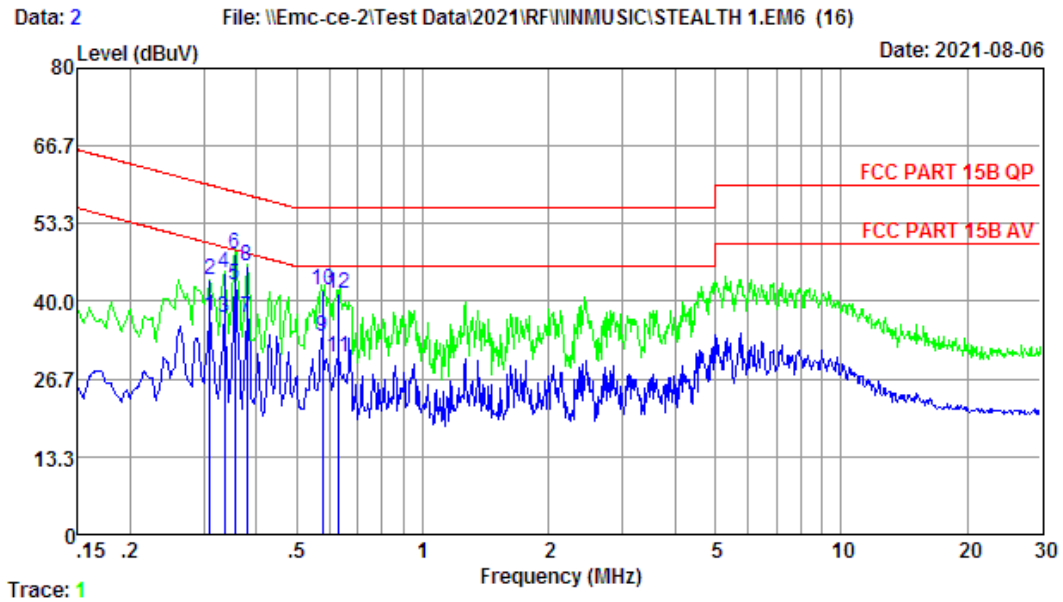
8.4. Test Procedure

a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
b. The EUT Power connected to the power mains through a line impedance stabilization network.
c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
d. Set the EUT transmit continuously with maximum output power.
e. Spectrum analyzer setting parameters in accordance with section 8.3.
f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
g. Record the results in the test report.

8.5. Test Result

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



Site no : 2#CE Shield Room Data no. : 2
Env. / Ins. : Temp:24.6℃ Humi:63% Press:101.30kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : ZSX
EUT : UHF PLL Wireless System
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : STEALTH 1
Test Mode : TX

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.31	9.83	9.92	17.85	37.60	49.97	12.37	Average
2	0.31	9.83	9.92	23.85	43.60	59.97	16.37	QP
3	0.34	9.76	9.92	17.44	37.12	49.31	12.19	Average
4	0.34	9.76	9.92	25.22	44.90	59.31	14.41	QP
5	0.36	9.74	9.92	23.19	42.85	48.83	5.98	Average
6	0.36	9.74	9.92	28.34	48.00	58.83	10.83	QP
7	0.38	9.74	9.92	17.57	37.23	48.30	11.07	Average
8	0.38	9.74	9.92	26.34	46.00	58.30	12.30	QP
9	0.58	9.75	9.92	14.21	33.88	46.00	12.12	Average
10	0.58	9.75	9.92	22.33	42.00	56.00	14.00	QP
11	0.63	9.75	9.92	10.61	30.28	46.00	15.72	Average
12	0.63	9.75	9.92	21.73	41.40	56.00	14.60	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

EST Technology

Chilingxiang, Qishantou, Santun,
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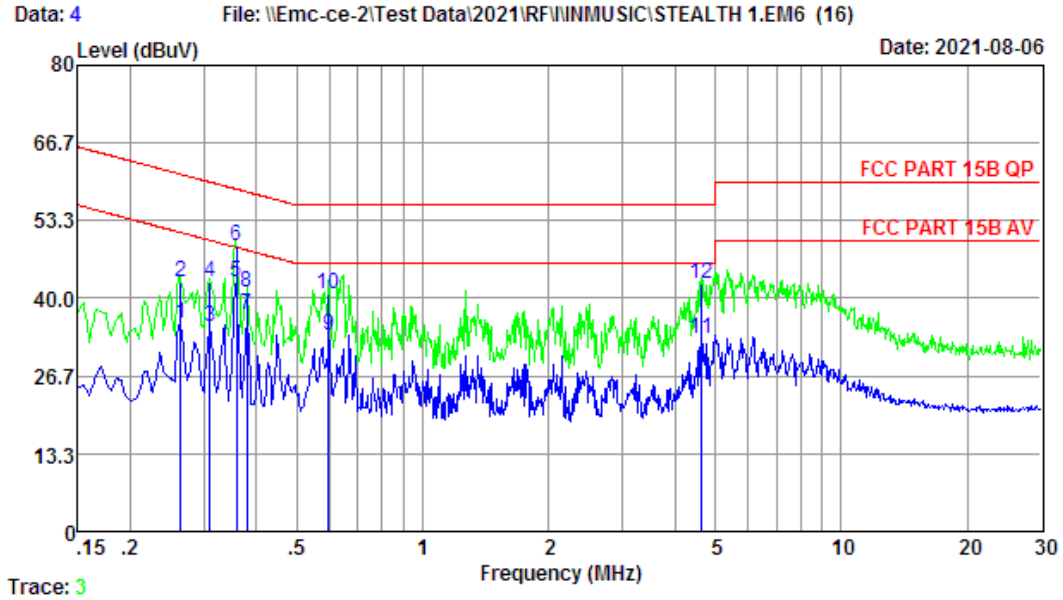
Fax:+86-769-83081878



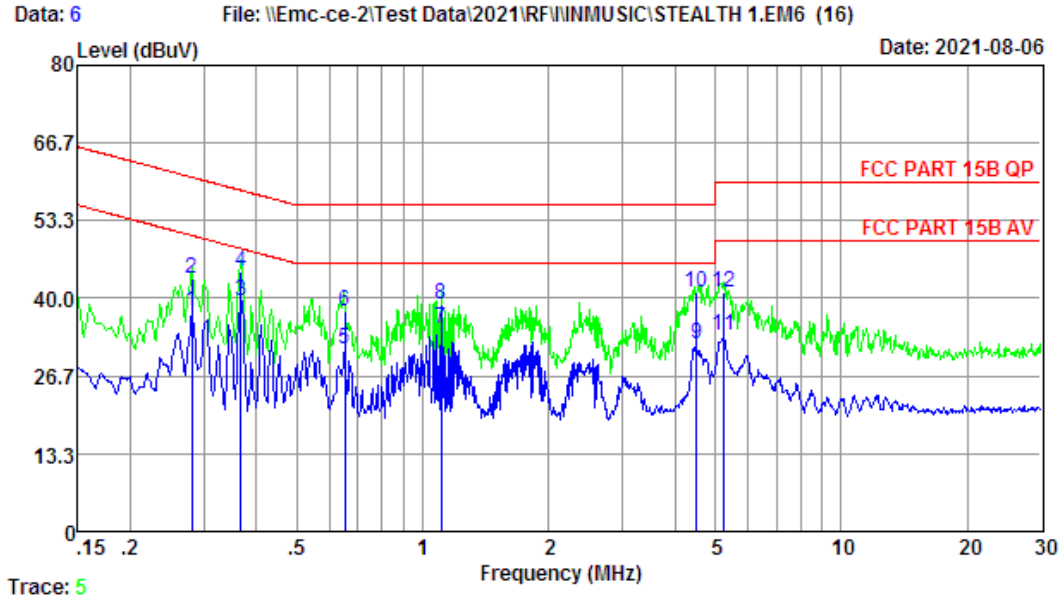
Site no : 2#CE Shield Room Data no. : 4
Env. / Ins. : Temp:24.6℃ Humi:63% Press:101.30kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : ZSX
EUT : UHF PLL Wireless System
Power : DC 5V From Adapter Input AC 120V/60Hz
M/N : STEALTH 1
Test Mode : TX

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.26	9.77	9.92	15.90	35.59	51.29	15.70	Average
2	0.26	9.77	9.92	23.21	42.90	61.29	18.39	QP
3	0.31	9.81	9.92	15.30	35.03	49.97	14.94	Average
4	0.31	9.81	9.92	23.07	42.80	59.97	17.17	QP
5	0.36	9.81	9.92	23.15	42.88	48.74	5.86	Average
6	0.36	9.81	9.92	29.17	48.90	58.74	9.84	QP
7	0.38	9.81	9.92	17.36	37.09	48.30	11.21	Average
8	0.38	9.81	9.92	21.27	41.00	58.30	17.30	QP
9	0.59	9.83	9.92	13.88	33.63	46.00	12.37	Average
10	0.59	9.83	9.92	21.05	40.80	56.00	15.20	QP
11	4.65	9.89	10.00	13.29	33.18	46.00	12.82	Average
12	4.65	9.89	10.00	22.61	42.50	56.00	13.50	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



Site no : 2#CE Shield Room Data no. : 6
Env. / Ins. : Temp:24.6℃ Humi:63% Press:101.30kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : ZSX
EUT : UHF PLL Wireless System
Power : DC 5V From Adapter Input AC 240V/60Hz
M/N : STEALTH 1
Test Mode : TX

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.28	9.72	9.92	18.25	37.89	50.81	12.92	Average
2	0.28	9.72	9.92	23.72	43.36	60.81	17.45	QP
3	0.37	9.75	9.92	19.97	39.64	48.56	8.92	Average
4	0.37	9.75	9.92	24.89	44.56	58.56	14.00	QP
5	0.65	9.82	9.92	11.48	31.22	46.00	14.78	Average
6	0.65	9.82	9.92	18.15	37.89	56.00	18.11	QP
7	1.11	9.88	9.94	15.16	34.98	46.00	11.02	Average
8	1.11	9.88	9.94	19.06	38.88	56.00	17.12	QP
9	4.50	10.02	10.00	12.16	32.18	46.00	13.82	Average
10	4.50	10.02	10.00	20.98	41.00	56.00	15.00	QP
11	5.25	10.12	10.01	13.41	33.54	50.00	16.46	Average
12	5.25	10.12	10.01	20.83	40.96	60.00	19.04	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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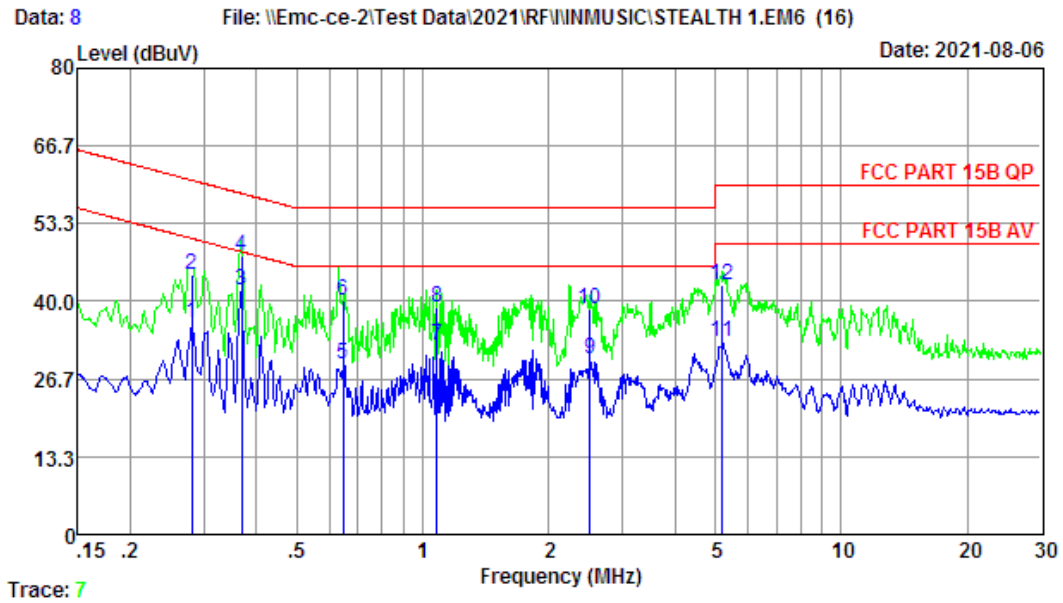
Chilingxiang, Qishantou, Santun,
Houjie, Dongguan,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



Site no : 2#CE Shield Room Data no. : 8
Env. / Ins. : Temp:24.6℃ Humi:63% Press:101.30kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : ZSX
EUT : UHF PLL Wireless System
Power : DC 5V From Adapter Input AC 240V/60Hz
M/N : STEALTH 1
Test Mode : TX

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.28	9.66	9.92	16.62	36.20	50.81	14.61	Average
2	0.28	9.66	9.92	25.01	44.59	60.81	16.22	QP
3	0.37	9.67	9.92	22.23	41.82	48.52	6.70	Average
4	0.37	9.67	9.92	28.17	47.76	58.52	10.76	QP
5	0.64	9.71	9.92	9.55	29.18	46.00	16.82	Average
6	0.64	9.71	9.92	20.49	40.12	56.00	15.88	QP
7	1.08	9.76	9.94	12.88	32.58	46.00	13.42	Average
8	1.08	9.76	9.94	19.31	39.01	56.00	16.99	QP
9	2.51	9.85	9.96	10.33	30.14	46.00	15.86	Average
10	2.51	9.85	9.96	18.74	38.55	56.00	17.45	QP
11	5.19	9.89	10.01	13.02	32.92	50.00	17.08	Average
12	5.19	9.89	10.01	22.95	42.85	60.00	17.15	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

9. ANTENNA REQUIREMENTS

9.1. Limit

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

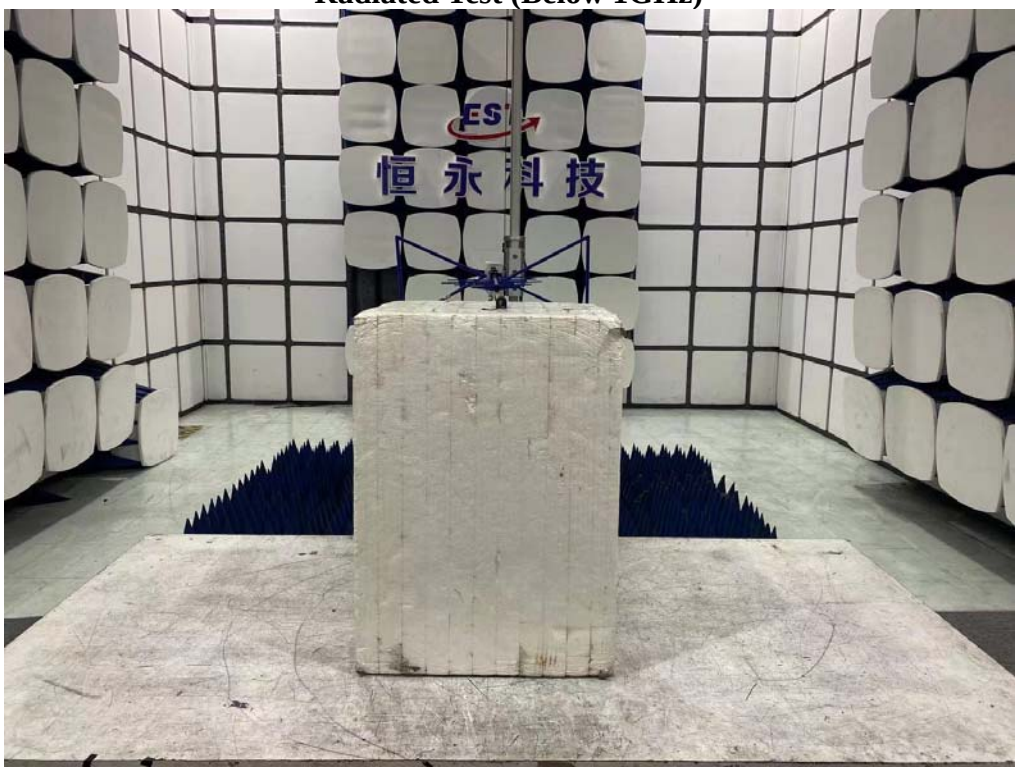
9.2. Test Result

The antennas used for this product is Integral antenna ,so compliance with antenna requirements.
(Please refer to the EUT photo for details)

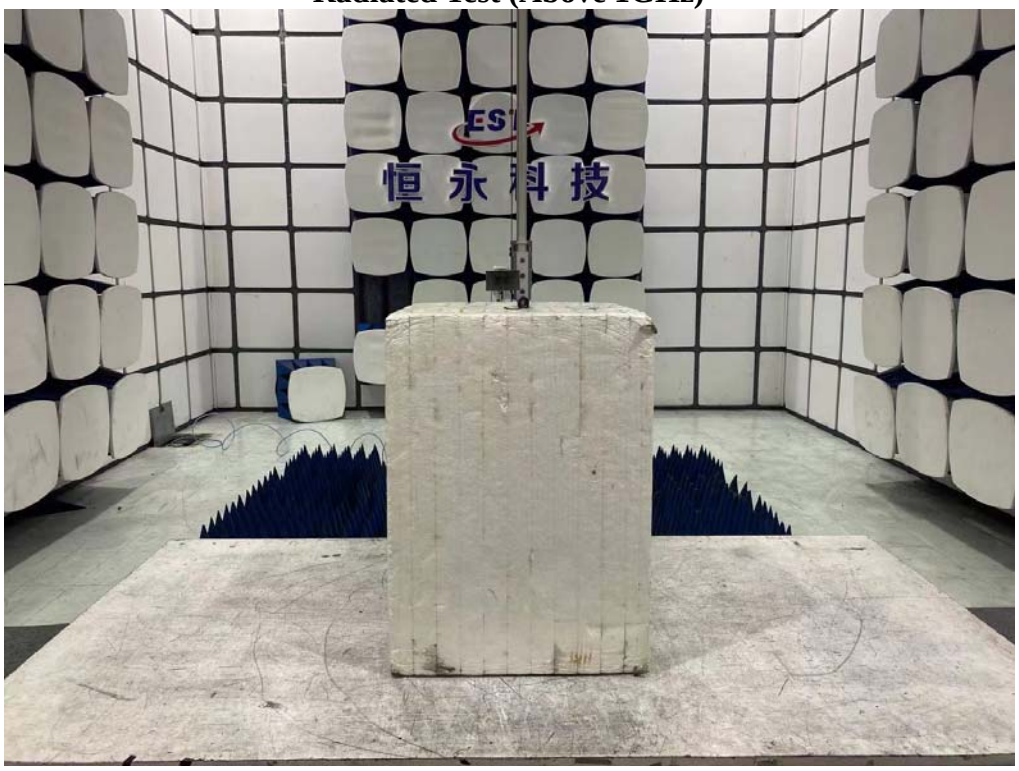
10. TEST SETUP PHOTO

Conducted Test

Radiated Test (Below 1GHz)



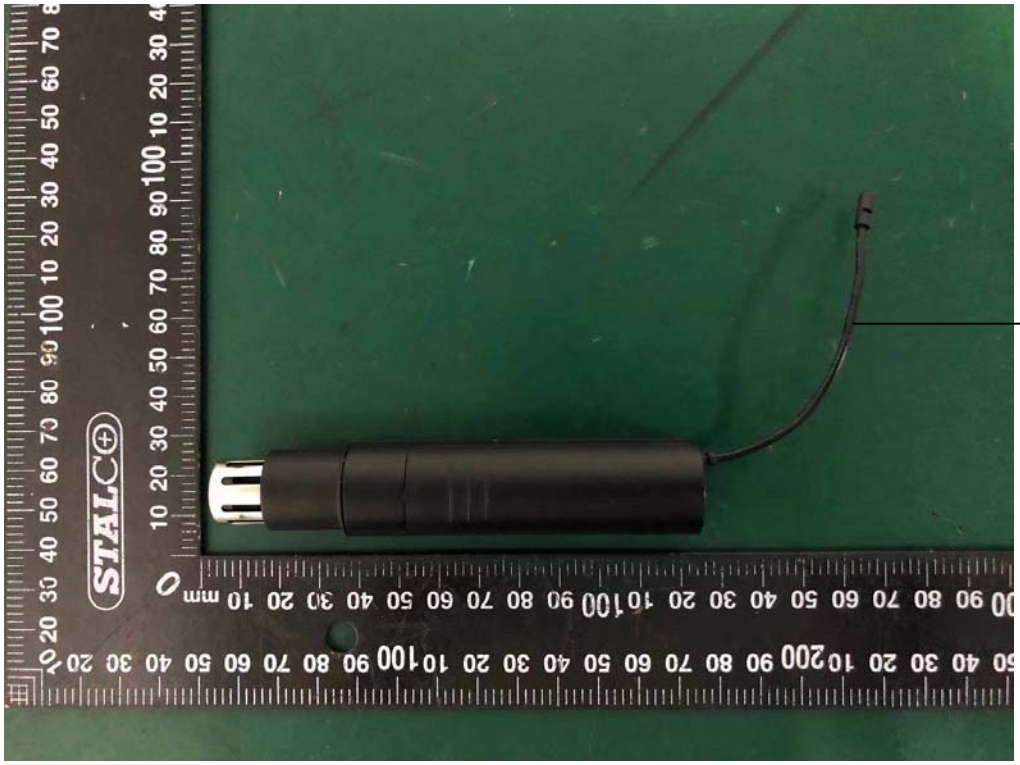
Radiated Test (Above 1GHz)



11. EUT PHOTO

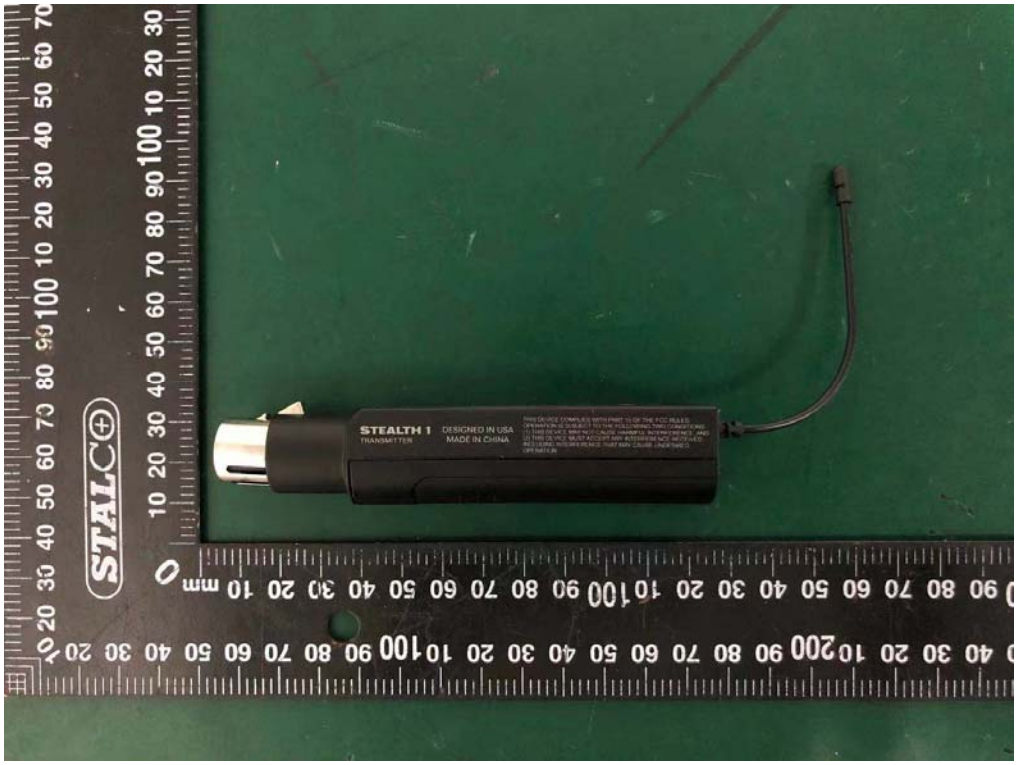
External Photos

M/N: STEALTH 1



External Photos

M/N: STEALTH 1



External Photos

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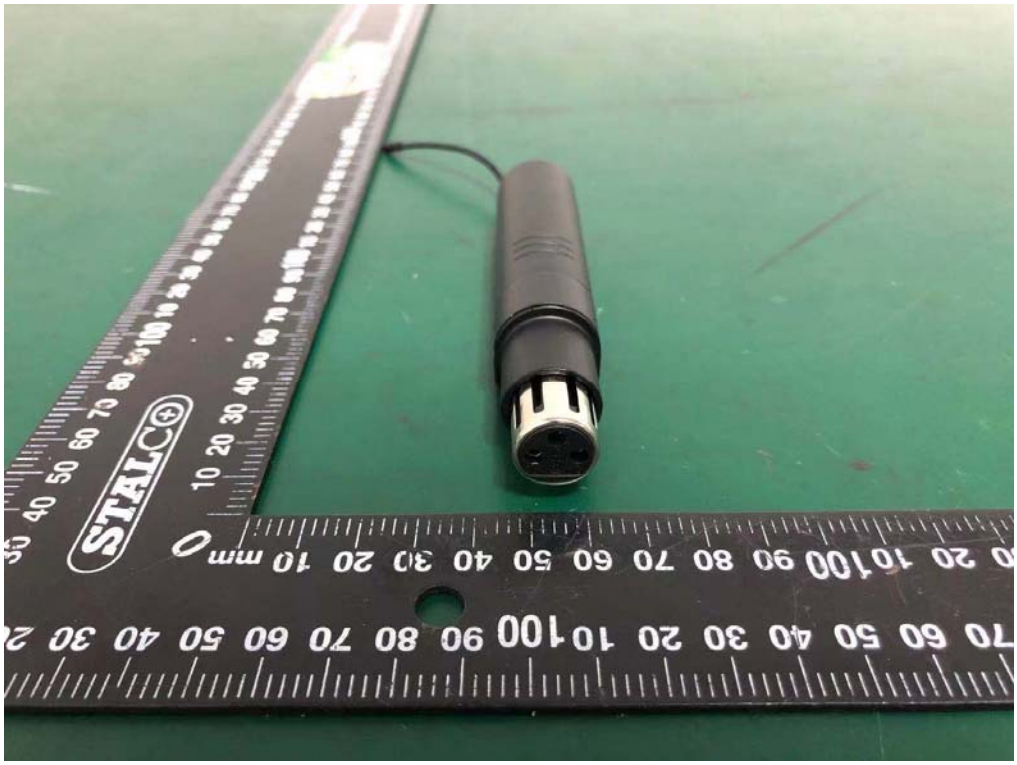

Internal Photos

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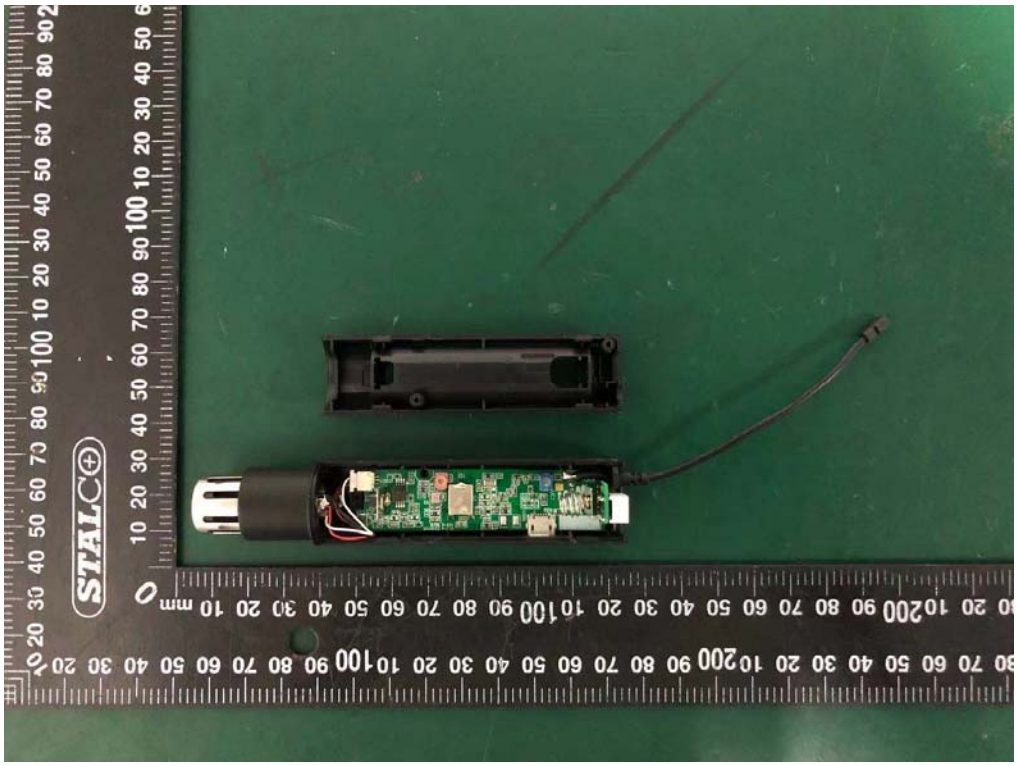
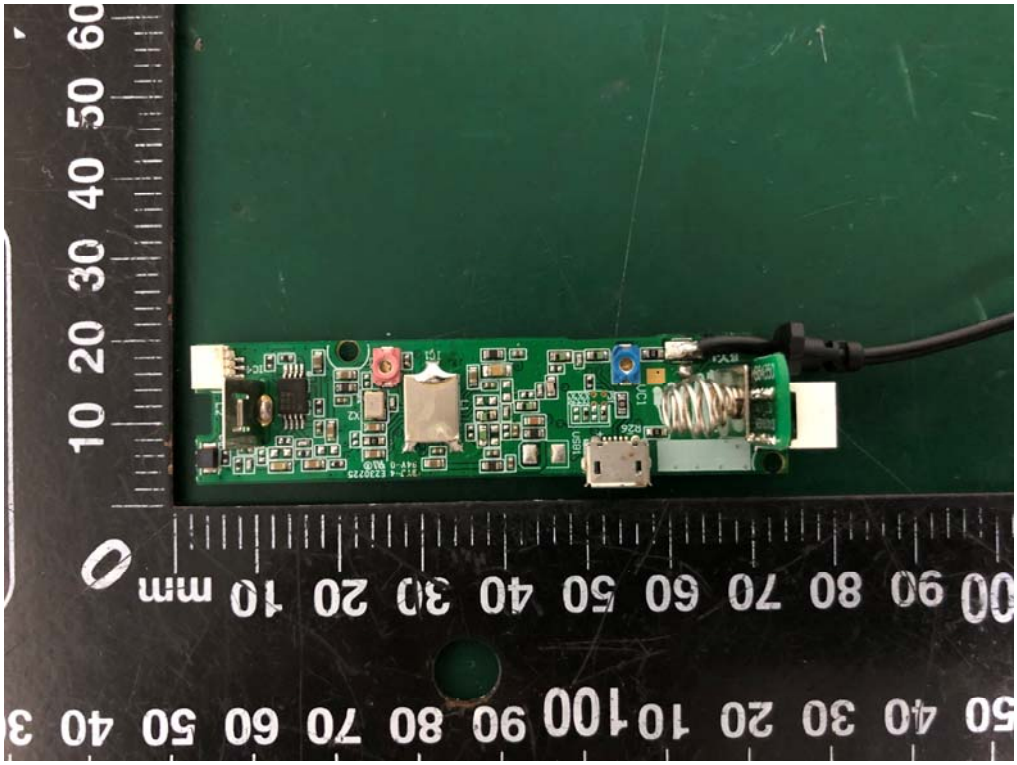
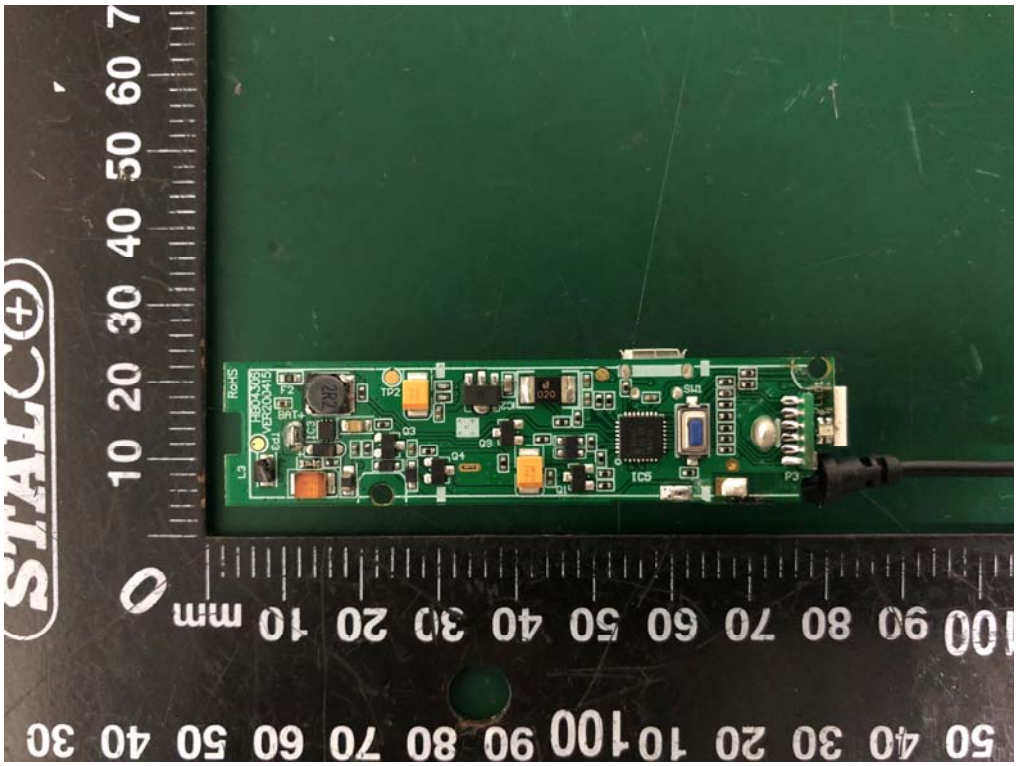


Internal Photos

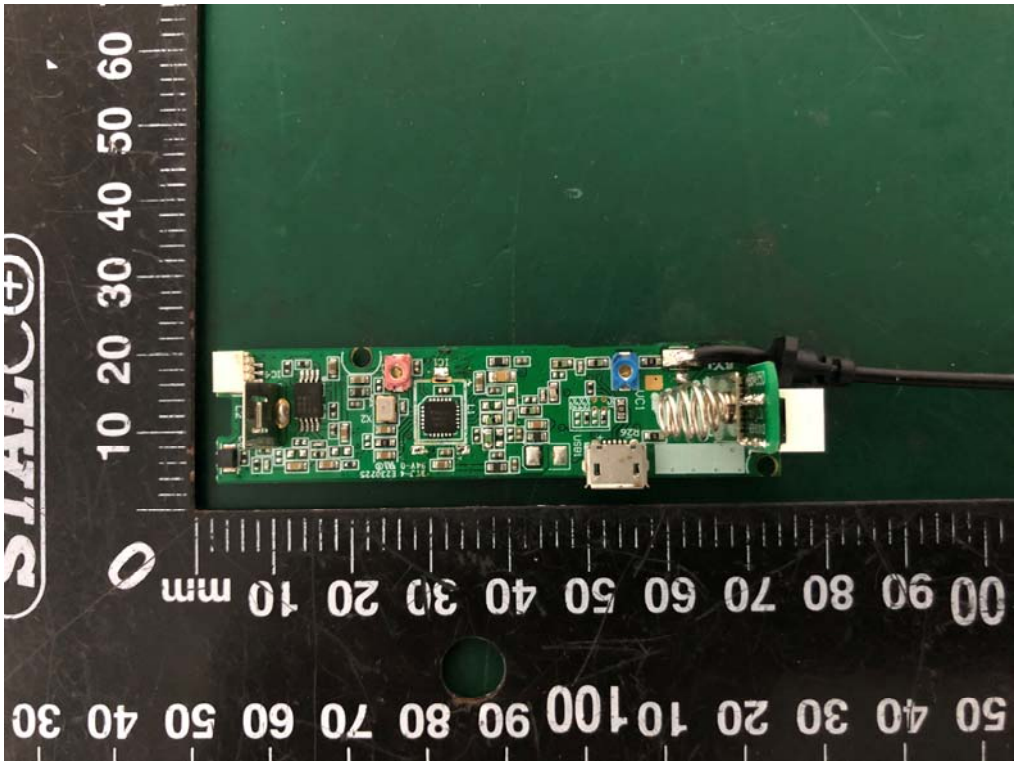
M/N: STEALTH 1

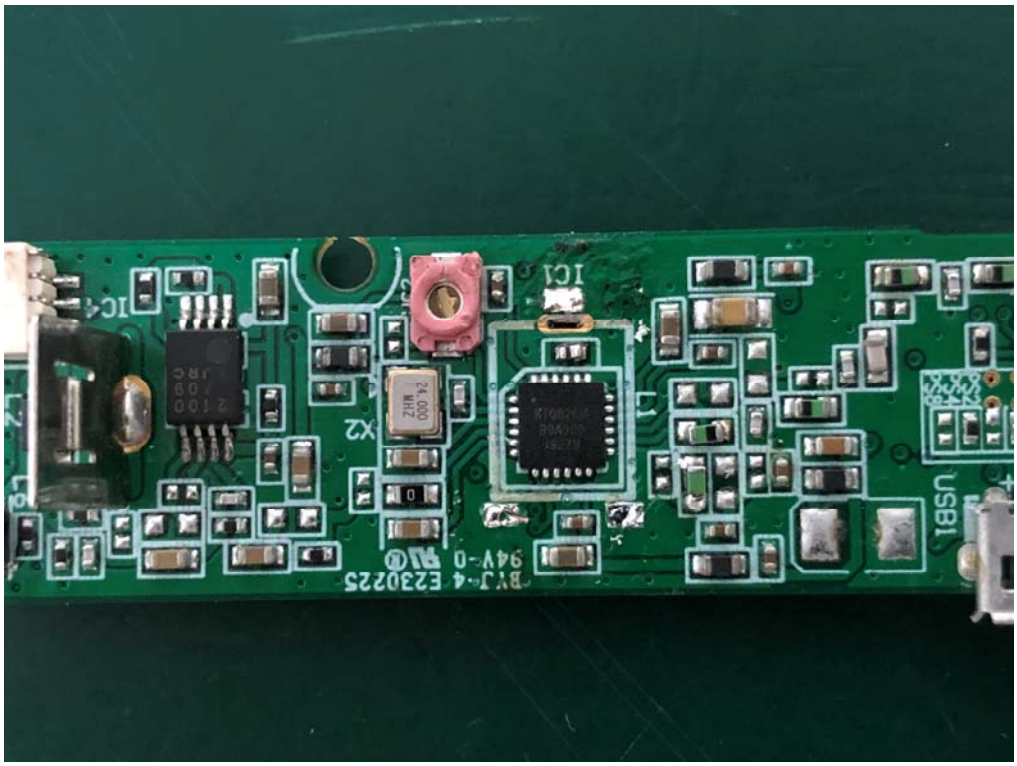




Internal Photos

M/N: STEALTH 1





End of Test Report