RADIO TEST REPORT

Report No: STS2105153W01

Issued for

HAMATON AUTOMOTIVE TECHNOLOGY CO. ,LTD

12 East Zhenxing Road,Linping, Yuhang, Hangzhou, China

Product Name:	US2.5 88 sensor
Brand Name:	Hamaton
Model Name:	HTS-2300
Series Model:	N/A
FCC ID:	2AFH7PHT230
IC:	20466-PHT230
Test Standard:	FCC Part 15.231 RSS-210 Issue 10 December 2019 RSS-Gen Issue 5 March 2019

Shenzhen STS Test Services Co., Ltd.
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TEST REPORT CERTIFICATION

Applicant's Name ..... :	HAMATON AUTOMOTIVE TECHNOLOGY CO. ,LTD
Address ..... :	12 East Zhenxing Road,Linping, Yuhang, Hangzhou, China
Manufacturer's Name ..... :	HAMATON AUTOMOTIVE TECHNOLOGY CO. ,LTD
Address ..... :	12 East Zhenxing Road,Linping, Yuhang, Hangzhou, China

Product Description

Product Name ..... :	US2.5 88 sensor
Brand Name ..... :	Hamaton
Model Name ..... :	HTS-2300
Series Model ..... :	N/A
Test Standards ..... :	FCC Part 15.231
Test Procedure ..... :	ANSI C63.10-2013 RSS-210 Issue 10 December 2019 RSS-Gen Issue 5 March 2019

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC/IC requirements. And it is applicable only to the tested sample identified in the report.
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Date of Test ..... :	
Date of Receipt of Test Item ... :	27 May 2021
Date of performance of tests .. :	27 May 2021 ~ 07 July 2021
Date of Issue ..... :	07 July 2021
Test Result ..... :	**Pass**

Testing Engineer : Chris chen

(Chris Chen)

Technical Manager : Sean She

(Sean she)

Authorized Signatory : Vita Li

(Vita Li)

TABLE OF CONTENTS **Page**

TABLE OF CONTENTS **Page**

Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	07 July 2021	STS2105153W01	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15.231,Subpart C RSS 210 Issue 10			
Standard Section	Test Item	Judgment	Remark
15.207 RSS-Gen Issue 5	Conducted Emission	N/A	--
15.205(a)/15.209/ 15.231(e) RSS 210 Issue 10 (A.1.4)	Radiated Spurious Emission	PASS	--
15.231(e) RSS 210 Issue 10 (A.1.4)	Transmission requirement	PASS	--
15.231(C) RSS 210 Issue 10 (A.1.3)	20 dB Bandwidth	PASS	--
15.203 RSS-Gen Issue 5	Antenna Requirement	PASS	--

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

(2) All tests are according to ANSI C63.10-2013.

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD
Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ±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	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 9K-30MHz	±2.68dB
4	All emissions, radiated 30M-1GHz	±4.39dB
5	All emissions, radiated 1G-6GHz	±5.10dB
6	All emissions, radiated>6G	±5.48dB
7	Conducted Emission (9KHz-150KHz)	±2.79dB
8	Conducted Emission (150KHz-30MHz)	±2.80dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name/PMN	US2.5 88 sensor
Trade Name	Hamaton
Model Name/HVIN	HTS-2300
Series Model	N/A
Model Difference	N/A
Product Description	The EUT is a US2.5 88 sensor Operation Frequency: 315MHz, 433.91MHz Modulation Type: ASK, FSK Antenna Designation: Copper-Nickel-Zinc Alloy Antenna Gain(Peak) 2 dBi More details of EUT technical specification, please refer to the User Manual.
Battery	Rated Voltage: 3V Capacity: 345mAh
Hardware version number	V0.0.1
Software version number/FVIN	V1.0
Serial Numbers	
Connecting I/O Port(s)	Please refer to Note 1.

Note:

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

2. Table for filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	Hamaton	HTS-2300	Copper-Nickel-Zinc Alloy	NA	2	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.

Pretest Mode	Description
Mode 1	TX Mode(315MHz, ASK)
Mode 2	TX Mode(315MHz, FSK)
Mode 3	TX Mode(433.91MHz, ASK)
Mode 4	TX Mode(433.91MHz, FSK)

	For Radiated Emission
Final Test Mode	Description
Mode 1	TX Mode(315MHz, ASK)
Mode 2	TX Mode(315MHz, FSK)
Mode 3	TX Mode(433.91MHz, ASK)
Mode 4	TX Mode(433.91MHz, FSK)

Note:

(2)The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

E-1
EUT

2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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

Necessary accessories

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

Support units

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

Note:

(1)For detachable type I/O cable should be specified the length in cm in『Length』column.

2.5 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2020.10.12	2021.10.11
Signal Analyzer	R&S	FSV 40-N	101823	2020.10.10	2021.10.09
Active loop Antenna	ZHINAN	ZN30900C	16035	2019.07.11	2021.07.10
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2019.10.15	2021.10.14
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2020.10.12	2021.10.11
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2020.10.12	2021.10.11
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2020.10.10	2021.10.09
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Power Sensor	Keysight	U2021XA	MY55520005	2020.10.10	2021.10.09
			MY55520006	2020.10.10	2021.10.09
			MY56120038	2020.10.10	2021.10.09
			MY56280002	2020.10.10	2021.10.09
Signal Analyzer	Agilent	N9020A	MY51110105	2021.03.04	2022.03.03
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)			

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

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

3.2 TEST PROCEDURE

a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

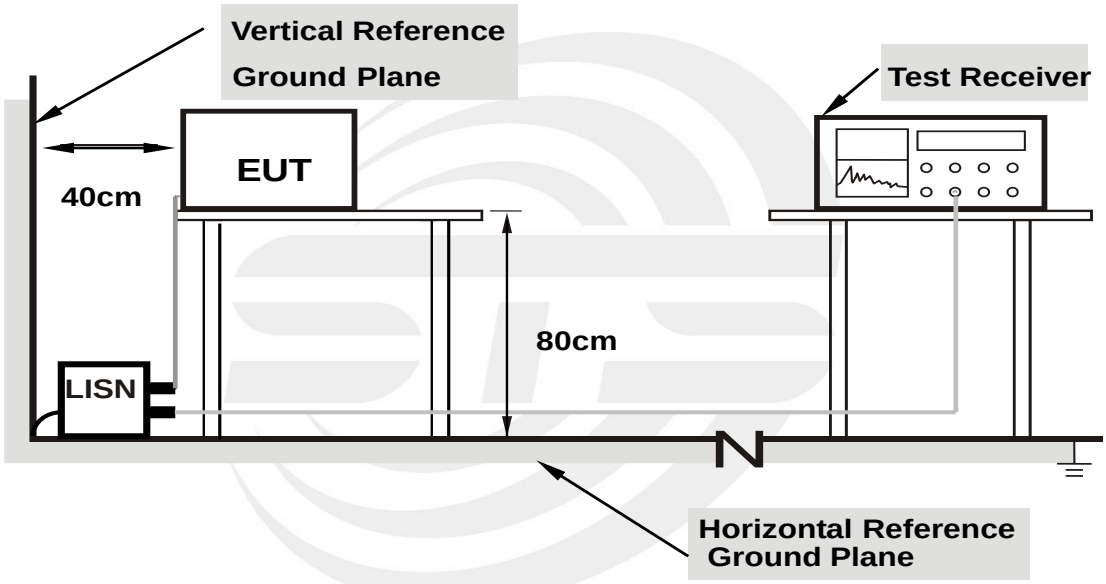
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

d. LISN 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 support units.

3.4 TEST RESULTS

Temperature:	N/A	Relative Humidity:	N/A
Phase:	L/N	Test Mode:	N/A

Note: EUT is only power by battery, So it is not applicable for this test.

4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on Part 15.205(a), then the Part 15.209(a), Part 15.231(e), RSS-Gen Issue 5 and RSS 210 Issue 10 (A.1.2) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~40.66	100	3

Fundamental Frequency (MHz)	Field Strength of fundamental (microvolts/meter)	Field Strength of Unwanted Emissions (microvolts/meter)
40.66 - 40.70	1,000	100
70 - 130	500	50
130 - 174	500 to 1,500 **	50 to 1,50 **
174 - 260	1,500	1,50
260 - 470	1,500 to 5,000 **	1,50 to 5,00 **
Above 470	5,000	5,00

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

NOTE:** linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental
field strengths are as follows: for the band 130-174 MHz, uV/m at 3 meters = 22.72727(F) - 2454.545; for the band 260-470 MHz, uV/m at 3 meters = 16.6667(F) - 2833.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

The limits on the field strength of the spurious emissions in the above table are based on thefundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to theaverage (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in93 Section 15.209, whichever limit permits a higher field strength.

LIMITS OF RESTRICTED FREQUENCY BANDS

FCC:

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

IC:

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 – 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	

16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 – 8500	
108 – 138		

Spectrum Parameter	Setting
Detector	Peak
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 3MHz

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

4.2 TEST PROCEDURE

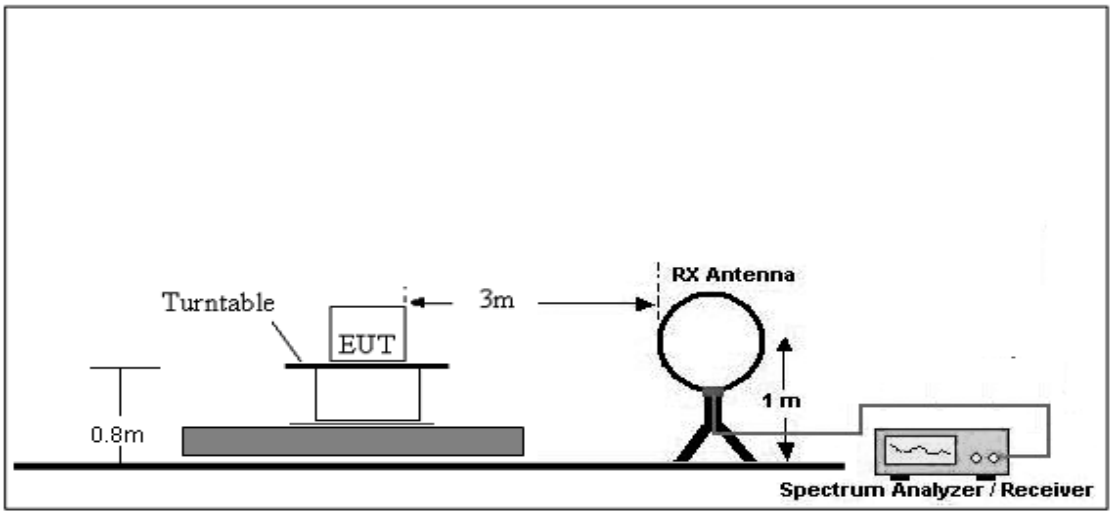
a. The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading.The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from theTest Antenna, which is mounted onavariable-height antenna master tower.
During test,The table was rotated 360 degrees to determine the position of the highest radiation.
b. In the frequency range of 9KHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
c. In the frequency range 30MHz-1GHz, Bi-Log Test Antenna used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.
d. In the frequency above1GHz,Place the measurement antenna 3m away from the EUT for each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
f. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
h. For the actual test configuration, please refer to the related Item –EUT Test Photos.
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.3 DEVIATION FROM TEST STANDARD

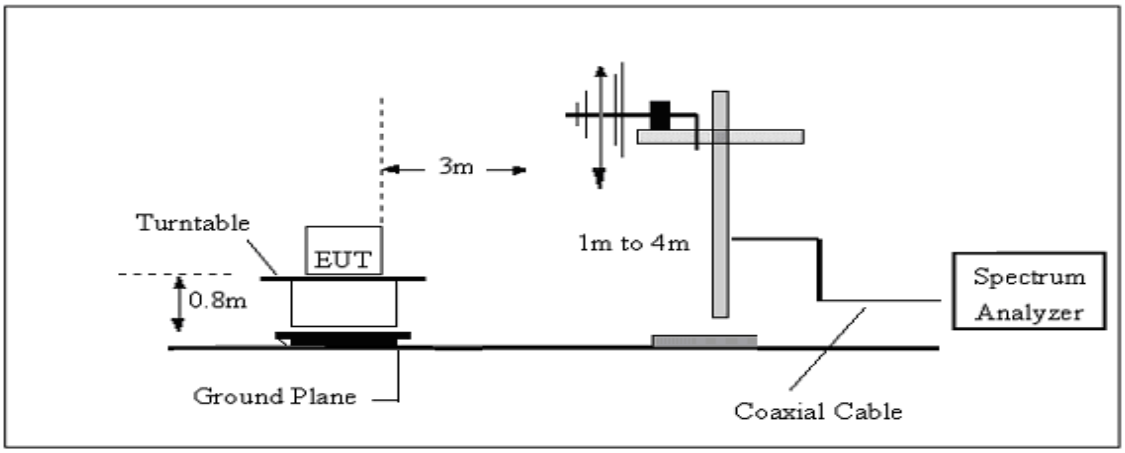
No deviation

4.4 TEST SETUP

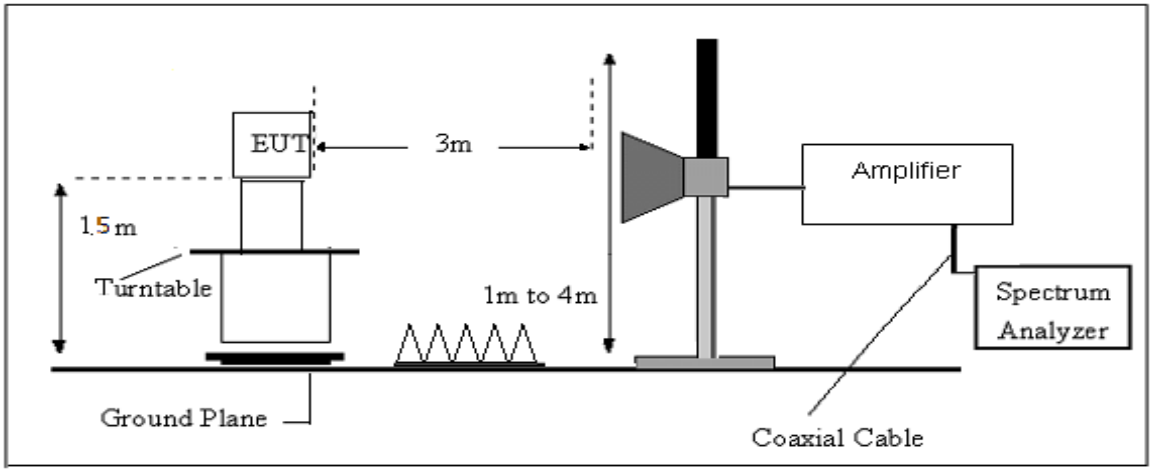
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.5 EUT OPERATING CONDITIONS

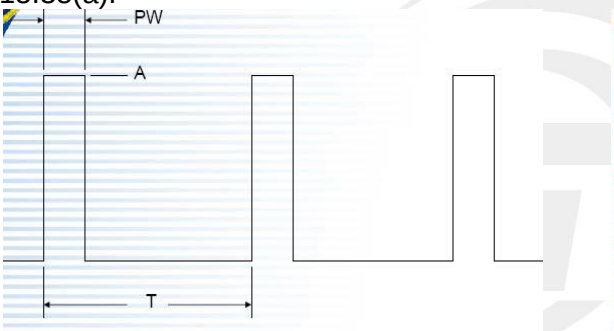
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

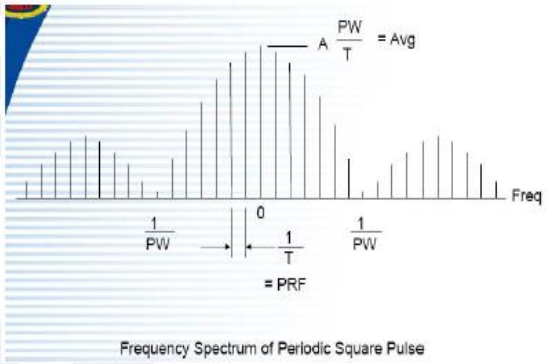
INTRODUCTION TO PDCF

Reference: (§15.35 Measurement detector functions and bandwidths.)

a. Part 15 of the FCC Rules provides for the operation of low power communication devices without an individual license (e.g., intrusion detectors, pulsed water tank level gauges, etc.), subject to certain requirements. Some of these devices use extremely narrow pulses to generate wideband emissions, which are measured to determine compliance with the rules. These measurements are typically performed with a receiver or spectrum analyzer. Depending on a number of factors (e.g., resolution bandwidth, pulsewidth, etc.), the spectrum analyzer may not always display the true peak value of the measured emission. This effect, called “pulse desensitization,” relates to the capabilities of the measuring instrument. For the measurement and reporting of the true peak of pulsed emissions, it may be necessary to apply a “pulse desensitization correction factor” (PDCF) to the measured value, pursuant to 47 CFR 15.35(a).



Periodic Square Pulse



Frequency Spectrum of Periodic Square Pulse

If using spectrum analyzer to measure pulse signal, it have to make sure the RBW use is at least 2/PW.

•When RBW is less than 2/PW, you are able to measure the true peak level of the pulse signal. If this is the case, PDCF is required to compensate to determine true peak value.

Pulse desensitization:

315MHz, ASK

PW =30200usec,Period=100000usec, Level=A

RBW>2/PW=0.066K , PRF=1/T=0.01K ,

315MHz, FSK

PW =29600usec,Period=100000usec, Level=A

RBW>2/PW=0.068K , PRF=1/T=0.01K ,

433.91MHz, ASK

PW =18200usec,Period=100000usec, Level=A

RBW>2/PW=0.1K , PRF=1/T=0.01K ,

433.91MHz, FSK

PW =18200usec,Period=100000usec, Level=A

RBW>2/PW=0.1K , PRF=1/T=0.01K

NOTE: 2 / PW < RBW, first don't need

b. For the actual test, please refer to the ANSI C63.10,Annex C refer to section 7 for more detail

4.7 FIELD STRENGTH CALCULATION

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

FS = RA + AF + CL - AG

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

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

Factor=AF+CL-AG

4.8 TEST RESULTS (EMISSION)

(Radiated Emission<30MHz (9KHz-30MHz, H-field))

Temperature:	20 ℃	Relative Humidtity:	48%
Test Mode:	Mode 1	Polarization:	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

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

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits (dBuv) + distance extrapolation factor.

Between 30MHz – 5000 MHz

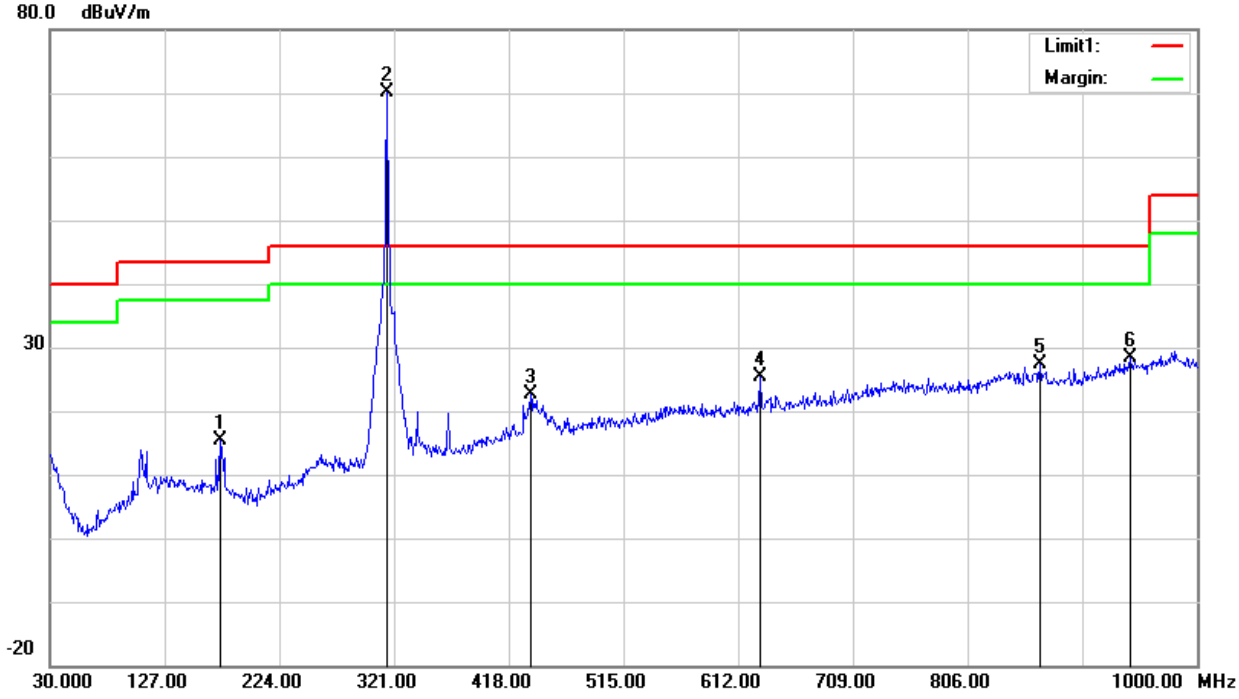
Temperature:	23.1℃	Relative Humidity:	60%
Phase:	Horizontal	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	173.5600	35.34	-19.97	15.37	43.50	-28.13	peak
3	436.4300	32.70	-10.11	22.59	46.00	-23.41	peak
4	630.4300	30.46	-5.03	25.43	46.00	-20.57	peak
5	867.1100	27.95	-0.50	27.45	46.00	-18.55	peak
6	943.7400	26.81	1.46	28.27	46.00	-17.73	peak

Fundamental Frequency

No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
2	315.0000	84.40	-14.22	-	70.18	87.66	-17.48	peak
7	315.0000	84.40	-14.22	-10.4	59.78	67.66	-7.88	AVG

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



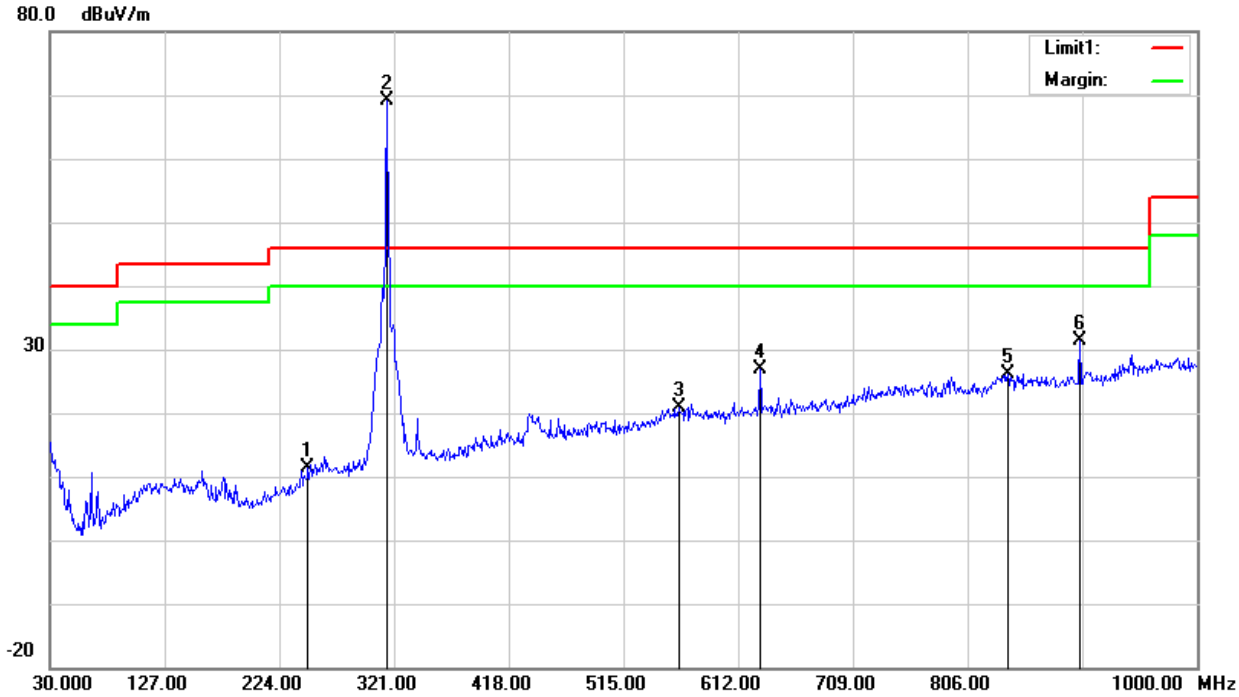
Temperature:	23.1℃	Relative Humidity:	60%
Phase:	Vertical	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	248.2500	27.77	-16.43	11.34	46.00	-34.66	peak
3	561.5600	26.32	-5.51	20.81	46.00	-25.19	peak
4	630.4300	31.92	-5.03	26.89	46.00	-19.11	peak
5	839.9500	26.48	-0.34	26.14	46.00	-19.86	peak
6	901.0600	31.75	-0.43	31.32	46.00	-14.68	peak

Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2	315.0000	83.23	-14.22	-	69.01	87.66	-18.65	peak
7	315.0000	83.23	-14.22	-10.4	58.61	67.66	-9.05	AVG

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



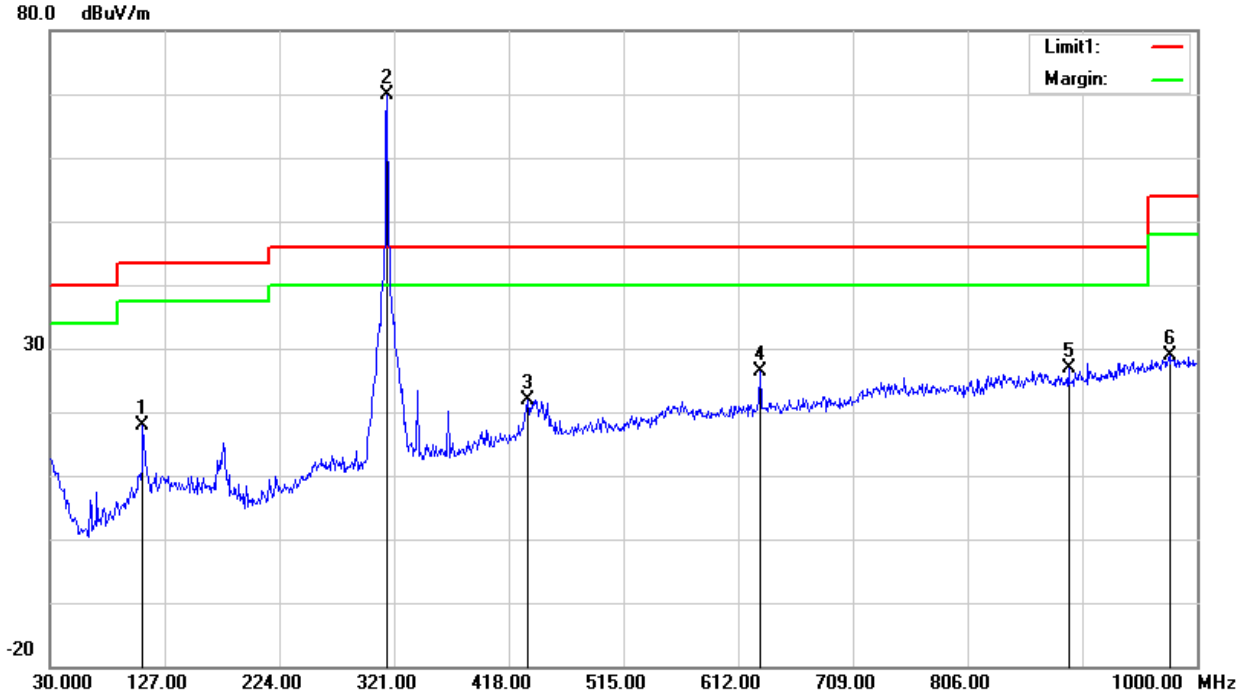
Temperature:	23.1℃	Relative Humidity:	60%
Phase:	Horizontal	Test Mode:	Mode 2

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	108.5700	37.05	-19.22	17.83	43.50	-25.67	peak
3	433.5200	32.04	-10.13	21.91	46.00	-24.09	peak
4	630.4300	31.42	-5.03	26.39	46.00	-19.61	peak
5	891.3600	27.49	-0.66	26.83	46.00	-19.17	peak
6	976.7200	26.49	2.45	28.94	54.00	-25.06	peak

Fundamental Frequency

No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
2	315.0000	84.03	-14.22	-	69.81	87.66	-17.85	peak
7	315.0000	84.03	-14.22	-10.57	59.24	67.66	-8.42	AVG

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



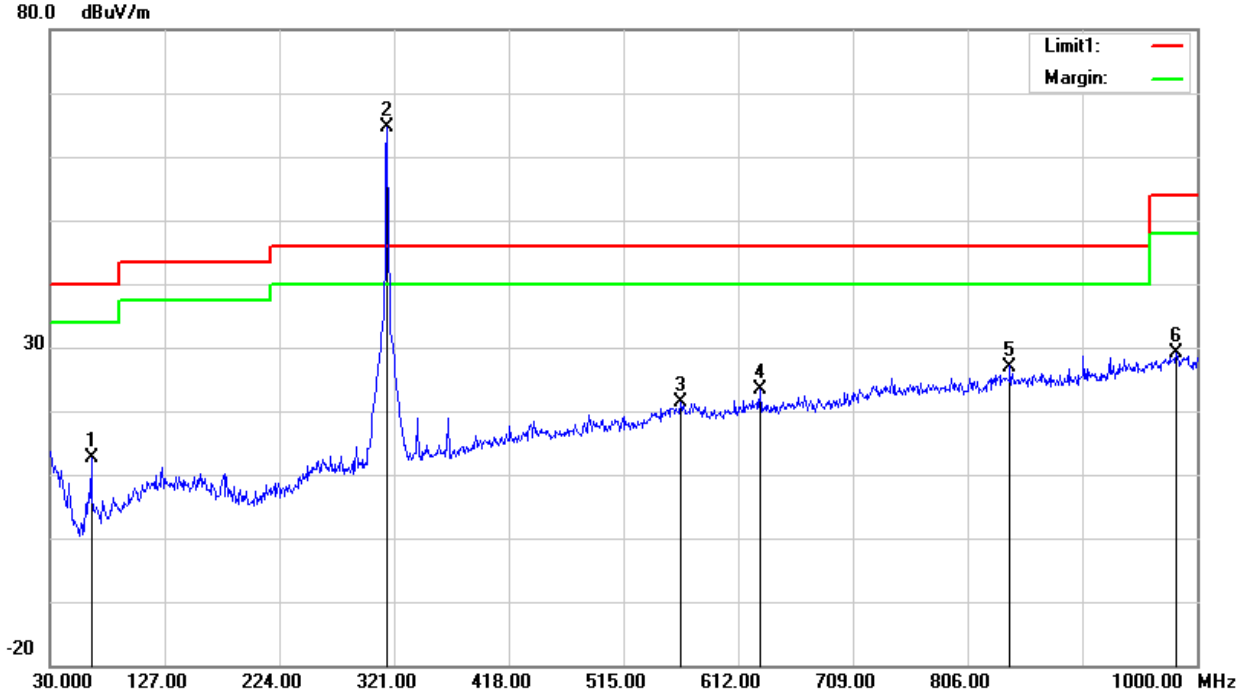
Temperature:	23.1℃	Relative Humidity:	60%
Phase:	Vertical	Test Mode:	Mode 2

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	64.9200	38.20	-25.62	12.58	40.00	-27.42	peak
3	563.5000	26.80	-5.53	21.27	46.00	-24.73	peak
4	630.4300	28.52	-5.03	23.49	46.00	-22.51	peak
5	841.8900	27.42	-0.42	27.00	46.00	-19.00	peak
6	982.5400	26.62	2.52	29.14	54.00	-24.86	peak

Fundamental Frequency

No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
2	315.0000	78.82	-14.22	-	64.60	67.66	-3.06	peak

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



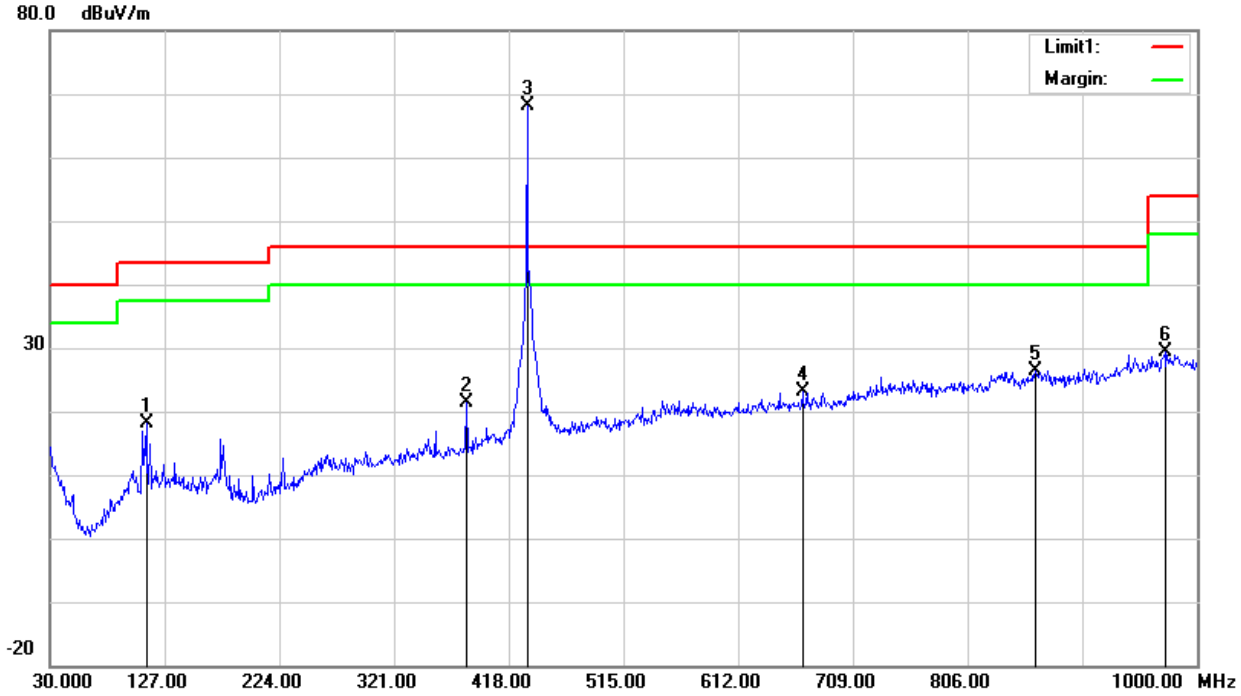
Temperature:	23.1℃	Relative Humidity:	60%
Phase:	Horizontal	Test Mode:	Mode 3

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	111.4800	37.10	-18.92	18.18	43.50	-25.32	peak
2	382.1100	33.44	-12.13	21.31	46.00	-24.69	peak
4	666.3200	27.76	-4.66	23.10	46.00	-22.90	peak
5	863.2300	26.85	-0.46	26.39	46.00	-19.61	peak
6	972.8400	27.18	2.19	29.37	54.00	-24.63	peak

Fundamental Frequency

No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
3	433.9100	78.37	-10.13	-	68.24	72.87	-4.63	peak

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



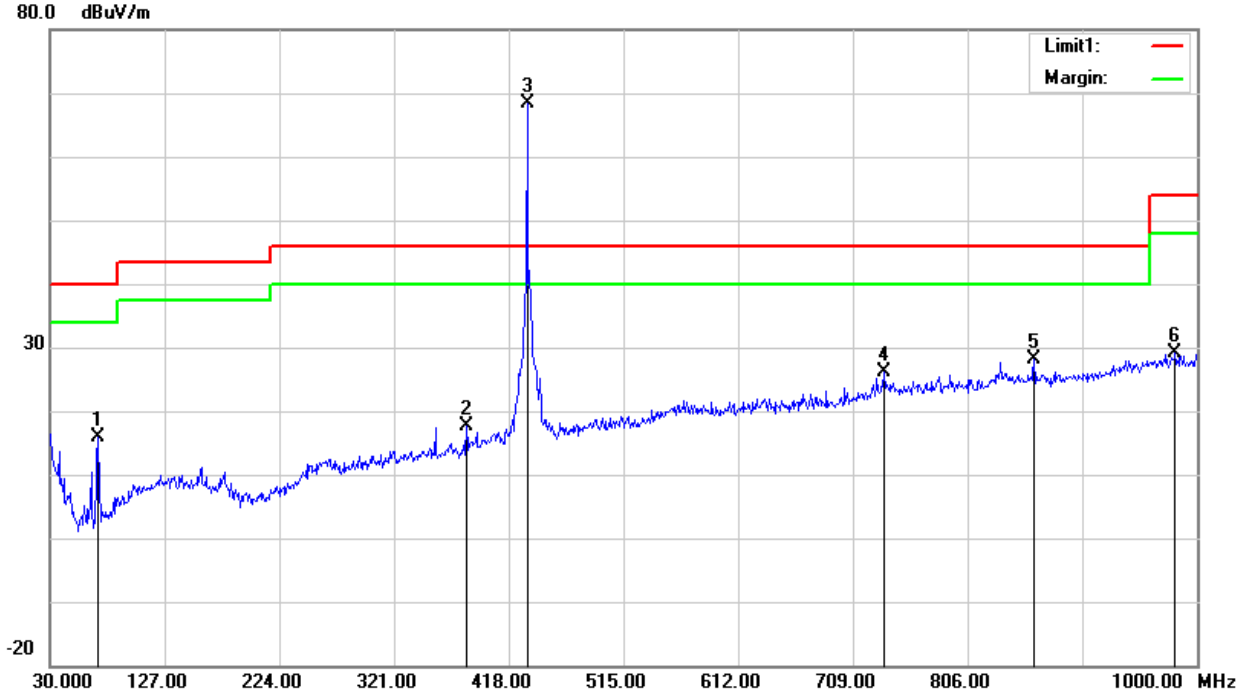
Temperature:	23.1℃	Relative Humidity:	60%
Phase:	Vertical	Test Mode:	Mode 3

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	70.7400	40.55	-24.73	15.82	40.00	-24.18	peak
2	382.1100	29.85	-12.13	17.72	46.00	-28.28	peak
4	735.1900	28.35	-2.28	26.07	46.00	-19.93	peak
5	862.2600	28.66	-0.44	28.22	46.00	-17.78	peak
6	981.5700	26.67	2.57	29.24	54.00	-24.76	peak

Fundamental Frequency

No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
3	433.9100	78.40	-10.13	-	68.27	72.87	-4.6	peak

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



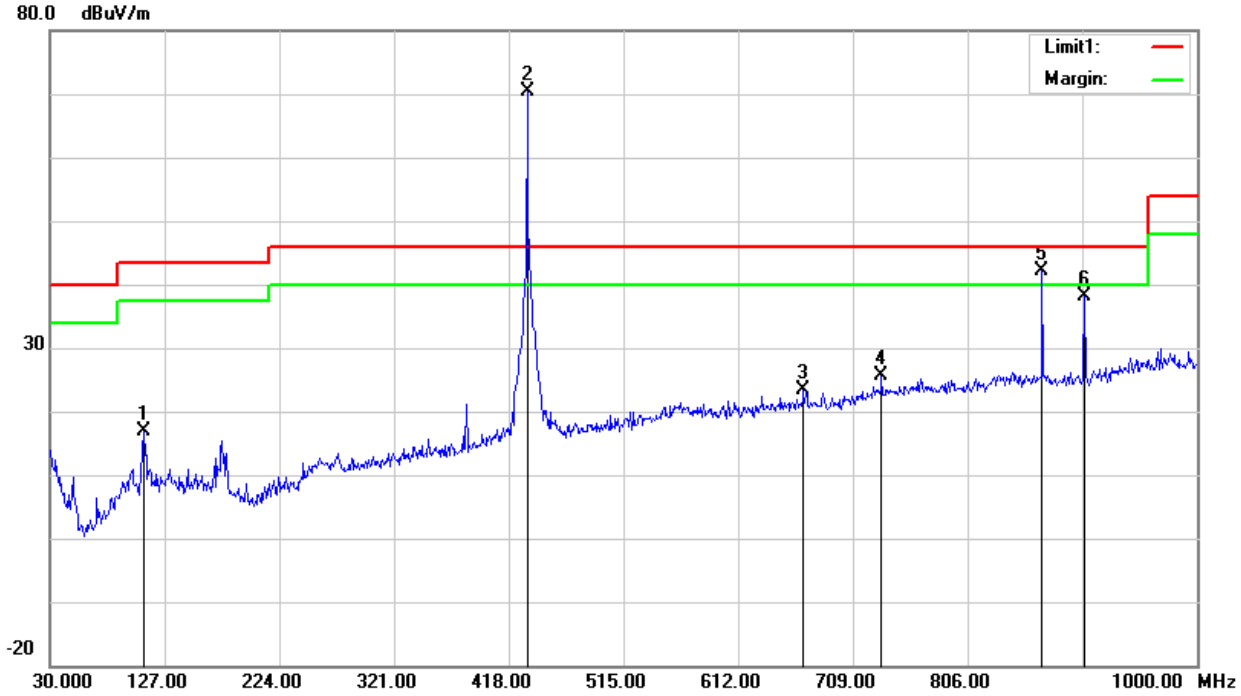
Temperature:	23.1℃	Relative Humidity:	60%
Phase:	Horizontal	Test Mode:	Mode 4

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	109.5400	36.00	-19.11	16.89	43.50	-26.61	peak
3	667.2900	28.00	-4.64	23.36	46.00	-22.64	peak
4	733.2500	27.96	-2.35	25.61	46.00	-20.39	peak
5	869.0500	42.62	-0.52	42.10	46.00	-3.90	peak
6	904.9400	38.57	-0.32	38.25	46.00	-7.75	peak

Fundamental Frequency

No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
2	433.9100	80.45	-10.13	-	70.32	72.87	-2.55	peak

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



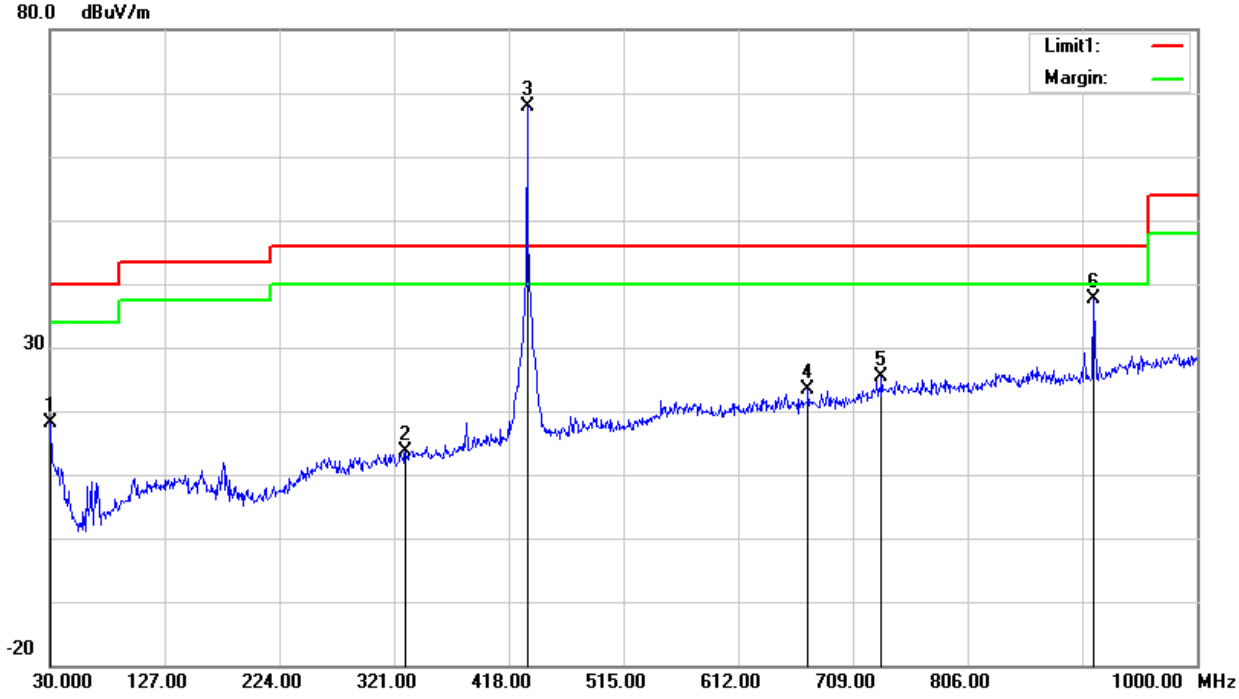
Temperature:	23.1℃	Relative Humidity:	60%
Phase:	Vertical	Test Mode:	Mode 4

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.9700	31.44	-13.35	18.09	40.00	-21.91	peak
3	330.7000	27.19	-13.68	13.51	46.00	-32.49	peak
4	671.1700	27.86	-4.55	23.31	46.00	-22.69	peak
5	733.2500	27.70	-2.35	25.35	46.00	-20.65	peak
6	912.7000	37.84	-0.14	37.70	46.00	-8.30	peak

Fundamental Frequency

No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
3	433.9100	78.01	-10.13	-	67.88	72.87	-4.99	peak

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



PEAK TEST RESULTS:

Mode 1

Frequency	Reading	Detector	Amplifier	Loss	Antenna Factor	Corrected Factor	Corrected Amplitude	FCC Part 15.231/15.209/205		RX Antenna
								Limit	Margin	Polar
(MHz)	(dBμV/m)	(PK/QP/AV)	（dB）	（dB）	（dB）	（dB）	(dBμV/m)	(dBμV/m)	(dB)	(H/V)
1259.9	62.68	PK	44.1	5.3	25	-13.80	48.88	74	-25.12	H
1259.9	64.32	PK	44.1	5.3	25	-13.80	50.52	74	-23.48	V
1574.99	61.37	PK	43.8	5.4	25.9	-12.47	48.90	74	-25.10	H
1574.99	62.07	PK	43.8	5.4	25.9	-12.47	49.60	74	-24.40	V
1890.21	56.87	PK	44.4	6.0	27.6	-10.77	46.10	74	-27.90	H
1890.21	57.41	PK	44.4	6.0	27.6	-10.77	46.64	74	-27.36	V

Mode 2

Frequency	Reading	Detector	Amplifier	Loss	Antenna Factor	Corrected Factor	Corrected Amplitude	FCC Part 15.231/15.209/205		RX Antenna
								Limit	Margin	Polar
(MHz)	(dBμV/m)	(PK/QP/AV)	（dB）	（dB）	（dB）	（dB）	(dBμV/m)	(dBμV/m)	(dB)	(H/V)
1260.22	63.03	PK	44.1	5.3	25	-13.80	49.23	74	-24.77	H
1260.22	64.12	PK	44.1	5.3	25	-13.80	50.32	74	-23.68	V
1574.91	61.35	PK	43.8	5.4	25.9	-12.47	48.88	74	-25.12	H
1574.91	61.99	PK	43.8	5.4	25.9	-12.47	49.52	74	-24.48	V
1890.11	56.86	PK	44.4	6.0	27.6	-10.77	46.09	74	-27.91	H
1890.11	57.20	PK	44.4	6.0	27.6	-10.77	46.43	74	-27.57	V

Mode 3

Frequency	Reading	Detector	Amplifier	Loss	Antenna Factor	Corrected Factor	Corrected Amplitude	FCC Part 15.231/15.209/205		RX Antenna
								Limit	Margin	Polar
(MHz)	(dBμV/m)	(PK/QP/AV)	（dB）	（dB）	（dB）	（dB）	(dBμV/m)	(dBμV/m)	(dB)	(H/V)
1301.89	65.22	PK	45.1	4.0	25.1	-16.00	49.22	74	-24.78	H
1301.89	65.74	PK	45.1	4.0	25.1	-16.00	49.74	74	-24.26	V
1735.83	62.69	PK	44.1	5.3	25	-13.80	48.89	74	-25.11	H
1735.83	64.35	PK	44.1	5.3	25	-13.80	50.55	74	-23.45	V
2169.8	61.66	PK	43.8	5.4	25.9	-12.47	49.19	74	-24.81	H
2169.8	62.30	PK	43.8	5.4	25.9	-12.47	49.83	74	-24.17	V
2603.59	57.26	PK	44.4	6.0	27.6	-10.77	46.49	74	-27.51	H
2603.59	57.32	PK	44.4	6.0	27.6	-10.77	46.55	74	-27.45	V

Mode 4

Frequency	Reading	Detector	Amplifier	Loss	Antenna Factor	Corrected Factor	Corrected Amplitude	FCC Part 15.231/15.209/205		RX Antenna
								Limit	Margin	Polar
(MHz)	(dBμV/m)	(PK/QP/AV)	（dB）	（dB）	（dB）	（dB）	(dBμV/m)	(dBμV/m)	(dB)	(H/V)
1301.8	64.99	PK	45.1	4.0	25.1	-16.00	48.99	74	-25.01	H
1301.8	65.67	PK	45.1	4.0	25.1	-16.00	49.67	74	-24.33	V
1735.69	62.70	PK	44.1	5.3	25	-13.80	48.90	74	-25.10	H
1735.69	64.26	PK	44.1	5.3	25	-13.80	50.46	74	-23.54	V
2169.42	61.61	PK	43.8	5.4	25.9	-12.47	49.14	74	-24.86	H
2169.42	61.95	PK	43.8	5.4	25.9	-12.47	49.48	74	-24.52	V
2603.51	57.15	PK	44.4	6.0	27.6	-10.77	46.38	74	-27.62	H
2603.51	57.14	PK	44.4	6.0	27.6	-10.77	46.37	74	-27.63	V

Note:
1. Above 2.6 GHz The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. The peak value is less than the AV limit, so AV data does not need to be tested.

5. BANDWIDTH TEST

5.1 LIMIT

FCC Part15.231,Subpart C RSS 210 Issue 10			
Section	Test Item	Limit	Result
15.231(C) RSS 210 A.1.3	20 Bandwidth& 99% Bandwidth	The20dB bandwidth&99% Bandwidth of the emissions shall not exceed 0.25% of the center frequency	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth
RB	1% to 5% of the OBW
VB	≥3RB
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.2 TEST REQUIREMENTS

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

5.3 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. Spectrum Setting: 1% to 5% of the OBW, VBW≥3RBW, Sweep time = Auto.

5.4 TEST SETUP

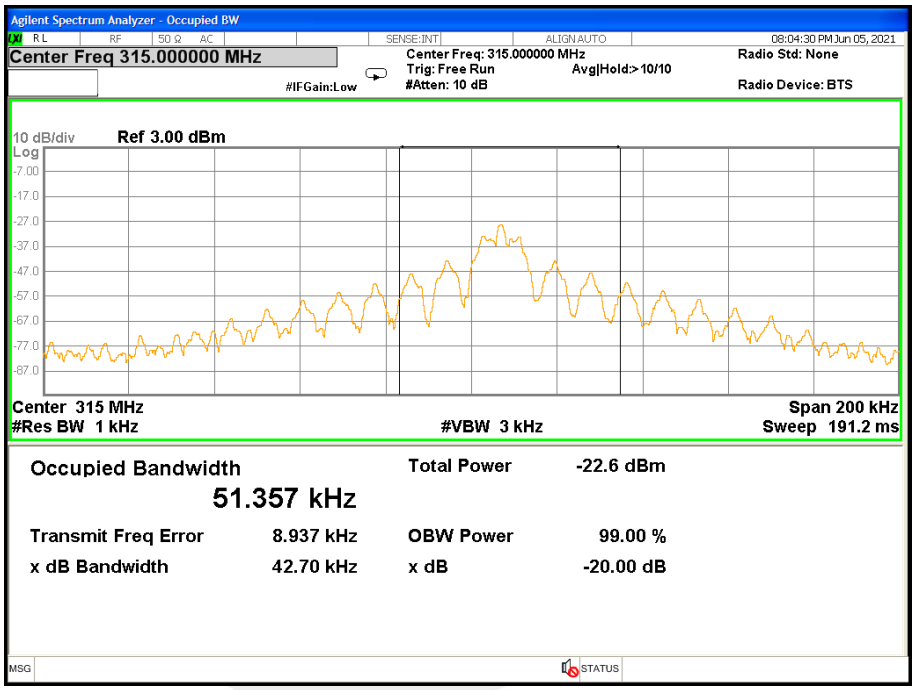
5.5 EUT OPERATION CONDITIONS

TX mode.

5.6 TEST RESULTS

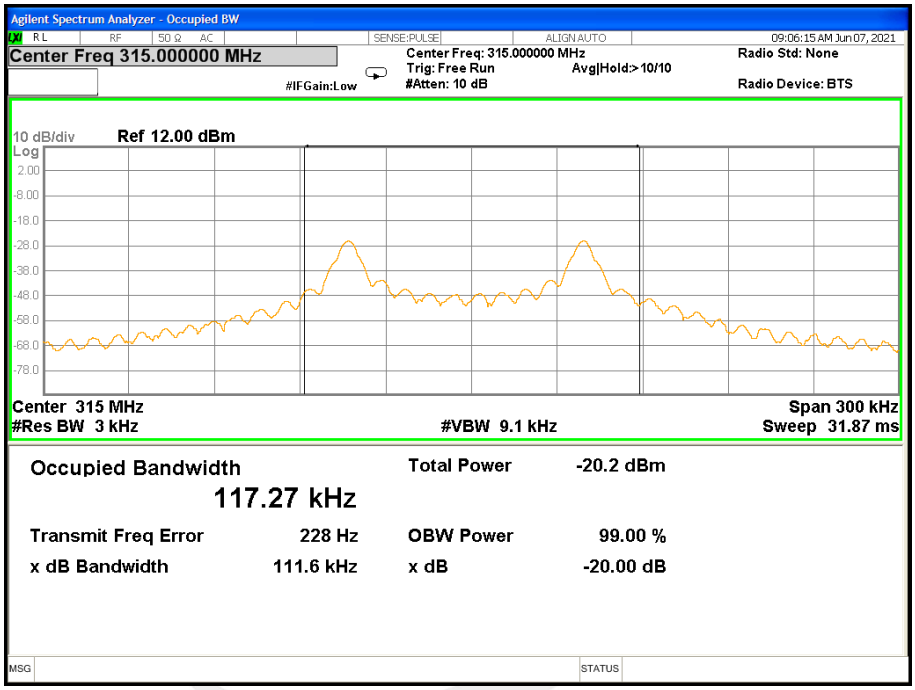
Temperature:	25 ℃	Relative Humidity:	60%
Test Mode:	Mode 1		

Centre Frequency	Measurement			
	20dB Bandwidth (KHz)	99% Bandwidth (KHz)	Limit(kHz)	Frequency Range (MHz)
315 MHz	42.70	51.357	787.5	PASS



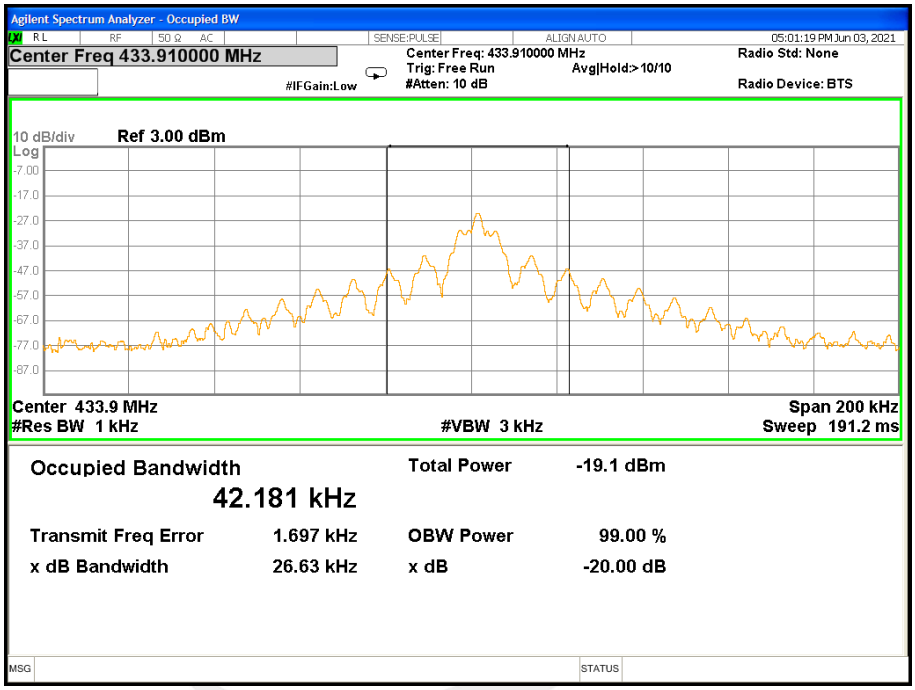
Temperature:	25 ℃	Relative Humidity:	60%
Test Mode:	Mode 2		

Centre Frequency	Measurement			
	20dB Bandwidth (KHz)	99% Bandwidth (KHz)	Limit(kHz)	Frequency Range (MHz)
315 MHz	111.6	117.27	787.5	PASS



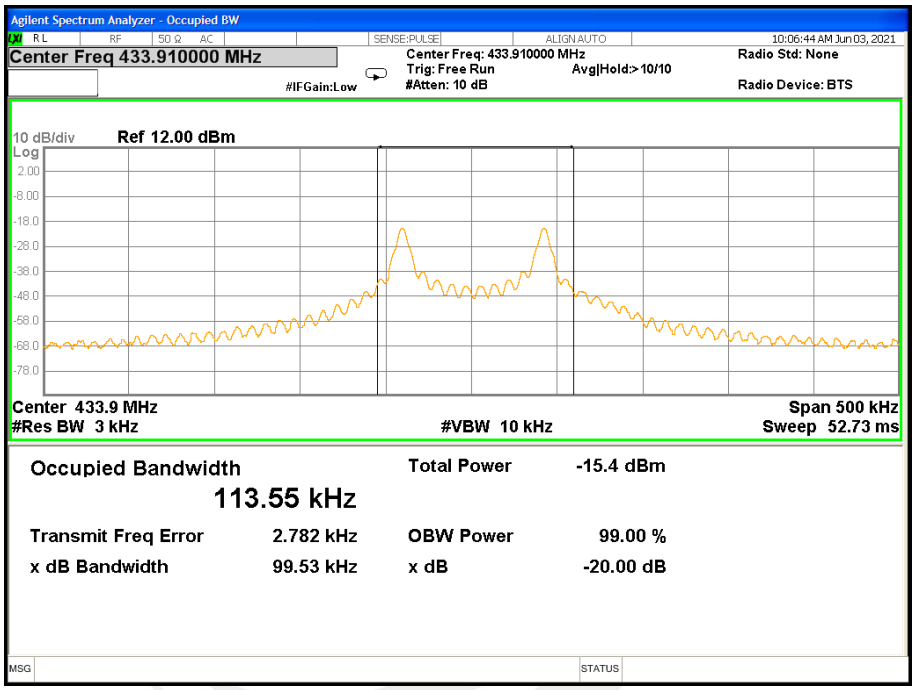
Temperature:	25 ℃	Relative Humidity:	60%
Test Mode:	Mode 3		

Centre Frequency	Measurement			
	20dB Bandwidth (KHz)	99% Bandwidth (KHz)	Limit(kHz)	Frequency Range (MHz)
433.91 MHz	26.63	42.181	1084.775	PASS



Temperature:	25 ℃	Relative Humidity:	60%
Test Mode:	Mode 4		

Centre Frequency	Measurement			
	20dB Bandwidth (KHz)	99% Bandwidth (KHz)	Limit(kHz)	Frequency Range (MHz)
433.91 MHz	99.53	113.55	1084.775	PASS



6. TRANSMITTER TIMEOUT

6.1 LIMIT

In addition, devices operated under the provisions of this paragraph shall be provided with a meansFor automatically limiting operation so that the duration of each transmission shall not be greater thanone second and the silent period between transmissions shall be at least 30 times the duration of thebut in no case less than 10 seconds.

6.2 TEST PROCEDURE

(1) Put the EUT on the support in its standard position with associated equipment and switched on.
(2) Set center frequency of spectrum analyzer = operating frequency.
(3) Set the spectrum analyzer as RBW=100kHz, VBW=100kHz, Span=0Hz, Adjust Sweep=Auto.
(4) record the duration time

6.3 TEST SETUP

6.4 TEST RESULTS

Temperature:	26 ℃	Relative Humidity:	53%
Test Mode:	Mode 1		

Frequency(MHz)	Each transmission time(s)	silent period between transmissions(s)
315	0.39	15.48
Limit	<1s	>10s and > 30*(duration of transmission)
Result	Pass	

Temperature:	26 ℃	Relative Humidity:	53%
Test Mode:	Mode 2		

Frequency(MHz)	Each transmission time(s)	silent period between transmissions(s)
315	0.39	16.59
Limit	<1s	>10s and > 30*(duration of transmission)
Result	Pass	

Temperature:	26 ℃	Relative Humidity:	53%
Test Mode:	Mode 3		

Frequency(MHz)	Each transmission time(s)	silent period between transmissions(s)
433.91	0.92	28.56
Limit	<1s	>10s and > 30*(duration of transmission)
Result	Pass	

Temperature:	26 ℃	Relative Humidity:	53%
Test Mode:	Mode 4		

Frequency(MHz)	Each transmission time(s)	silent period between transmissions(s)
433.91	0.88	29.36
Limit	<1s	>10s and > 30*(duration of transmission)
Result	Pass	

7. PERIODIC OPERATION

7.1 TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
The Duty Cycle Was Determined By The Following Equation: To Calculate The Actual Field Intensity,The Duty Cycle Correction Factor In Decibel Is Needed For Later Use And Can Be Obtained From Following Conversion
Duty Cycle(%)=Total On Interval In A Complete Pulse Train/ Length Of A Complete Pulse Train * %
Duty Cycle Correction Factor(dB)=20 * Log10(Duty Cycle(%)

7.2 TEST SETUP

7.3 EUT OPERATION CONDITIONS

TX mode.

7.4 TEST RESULTS

Mode 1

FCC Part15.231(e) RSS 210 Issue 10	
Total On interval in a complete pulse train(ms)	30.2
Length of a complete pulse train(ms)	100
Duty Cycle(%)	30.20%
Duty Cycle Correction Factor(dB)	10.40

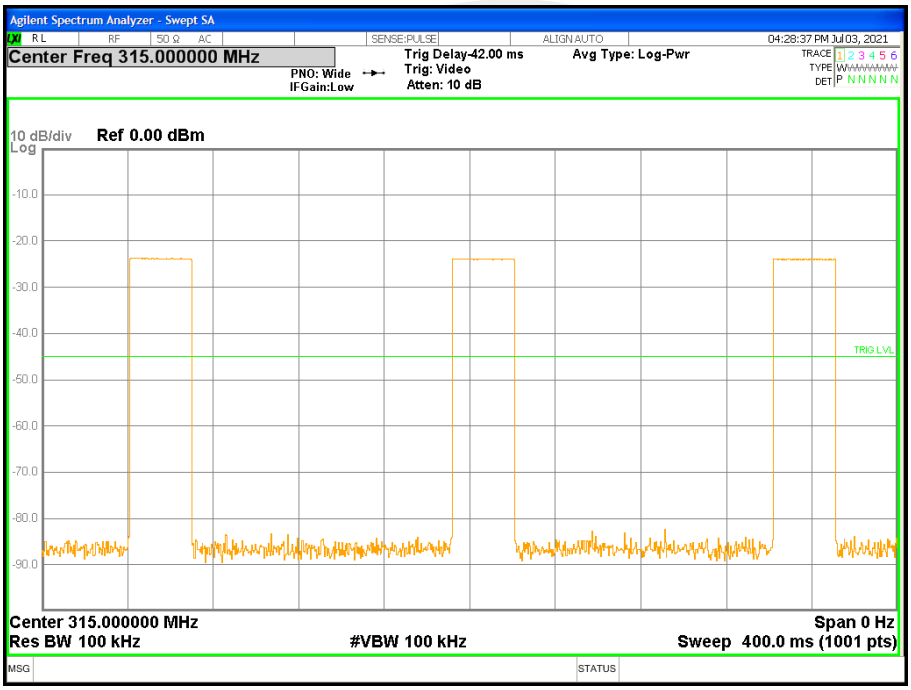
Refer to the duty cycle plot (as below), This device meets the FCC requirement. Length of a complete pulse train
Remark:FCC part15.35(c) and RSS 210 required that a complete pulse train is more than 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

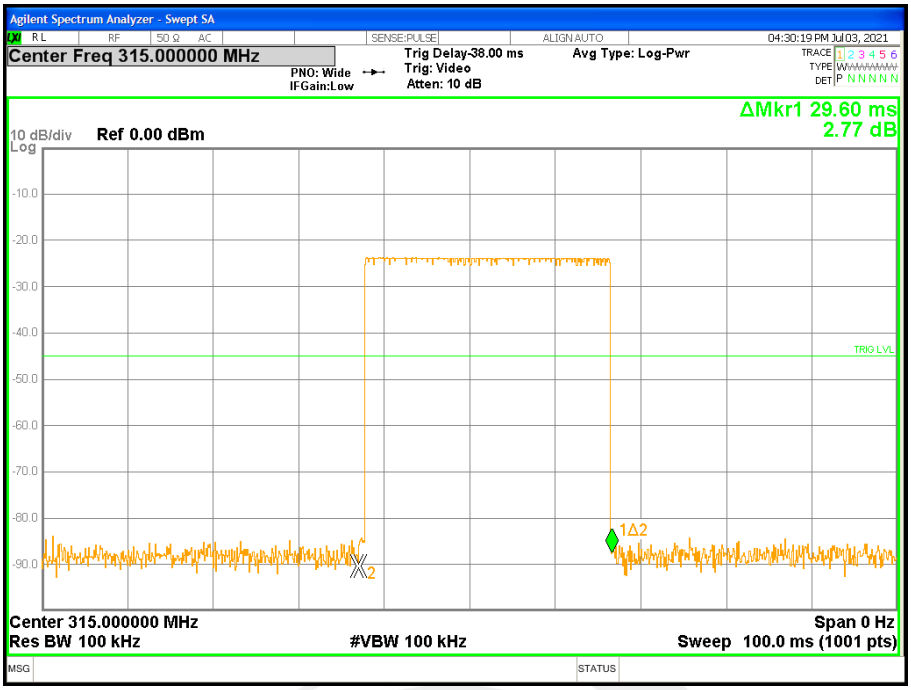

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
06:19:32 PM Jun 05, 2021
Center Freq 315.000000 MHz
PNO: Wide
IFGain:Low
Trig Delay-39.00 ms
Trig: Video
Atten: 10 dB
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE WWWWW
DET P N N N N N
ΔMkr1 30.20 ms
2.79 dB
10 dB/div
Log
Ref 0.00 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
TRIG LVL
1Δ2
Center 315.000000 MHz
Res BW 100 kHz
#VBW 100 kHz
Span 0 Hz
Sweep 100.0 ms (1001 pts)
MSG
STATUS

Mode 2

FCC Part15.231(e) RSS 210 Issue 10	
Total On interval in a complete pulse train(ms)	29.6
Length of a complete pulse train(ms)	100
Duty Cycle(%)	29.60%
Duty Cycle Correction Factor(dB)	10.57

Refer to the duty cycle plot (as below), This device meets the FCC requirement. Length of a complete pulse train
Remark:FCC part15.35(c) and RSS 210 required that a complete pulse train is more than 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

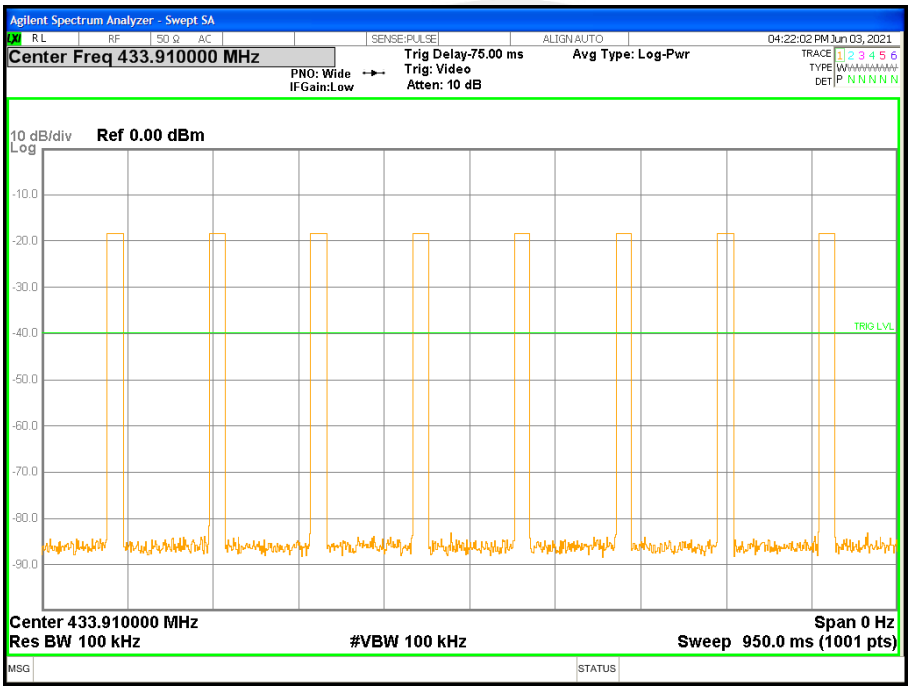


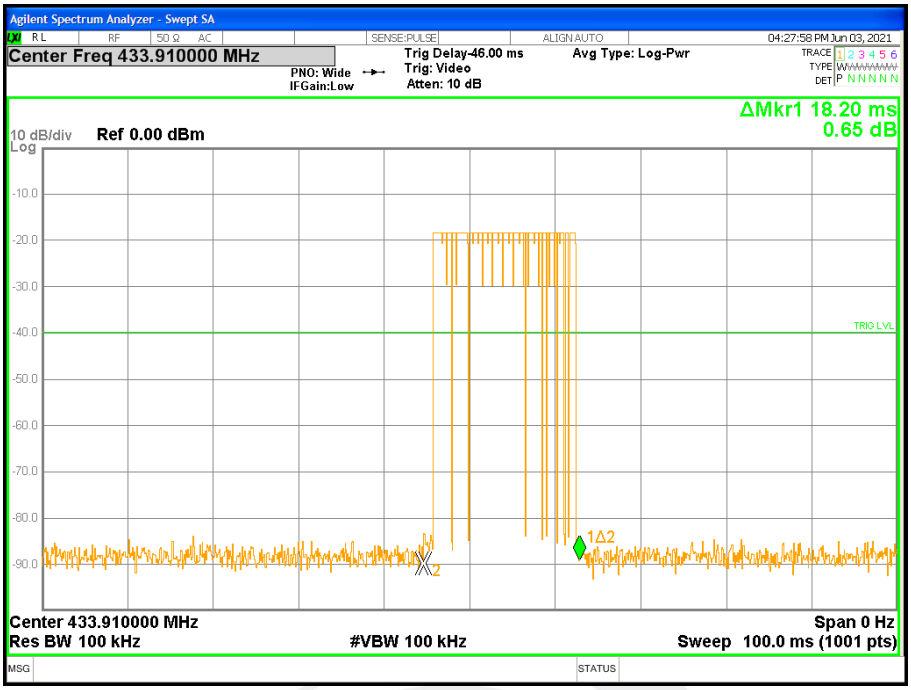

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
04:30:19 PM Jul 03, 2021
Center Freq 315.000000 MHz
PNO: Wide
IFGain:Low
Trig Delay-38.00 ms
Trig: Video
Atten: 10 dB
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE WWWWW
DET P N N N N N
ΔMkr1 29.60 ms
2.77 dB
10 dB/div
Log
Ref 0.00 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
TRIG LVL
1Δ2
2
Center 315.000000 MHz
Res BW 100 kHz
#VBW 100 kHz
Span 0 Hz
Sweep 100.0 ms (1001 pts)
MSG
STATUS

Mode 3

FCC Part15.231(e) RSS 210 Issue 10	
Total On interval in a complete pulse train(ms)	18.2
Length of a complete pulse train(ms)	100
Duty Cycle(%)	18.20%
Duty Cycle Correction Factor(dB)	14.80

Refer to the duty cycle plot (as below), This device meets the FCC requirement. Length of a complete pulse train
Remark:FCC part15.35(c) and RSS 210 required that a complete pulse train is more than 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

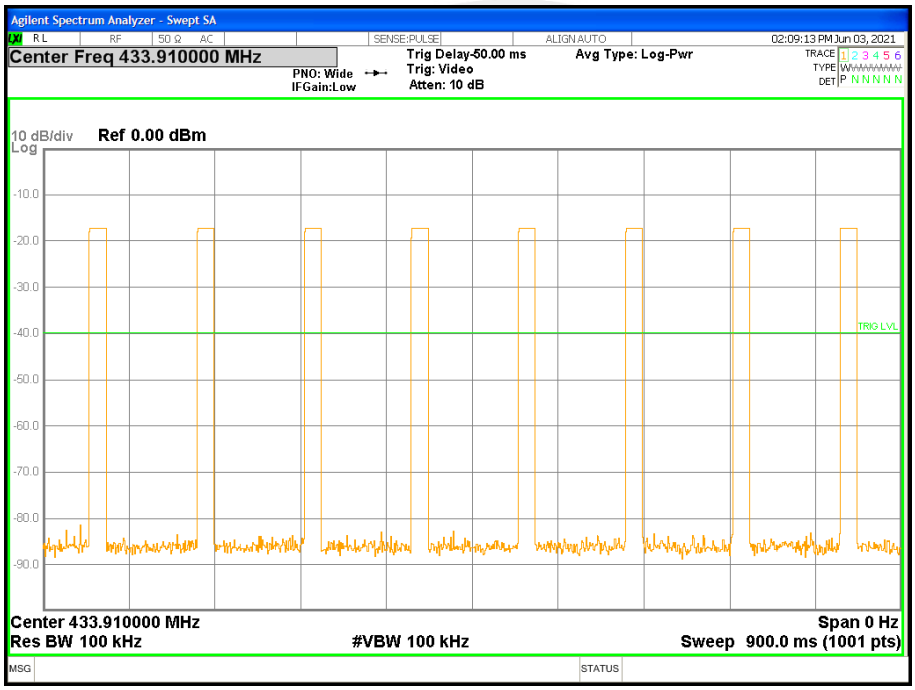


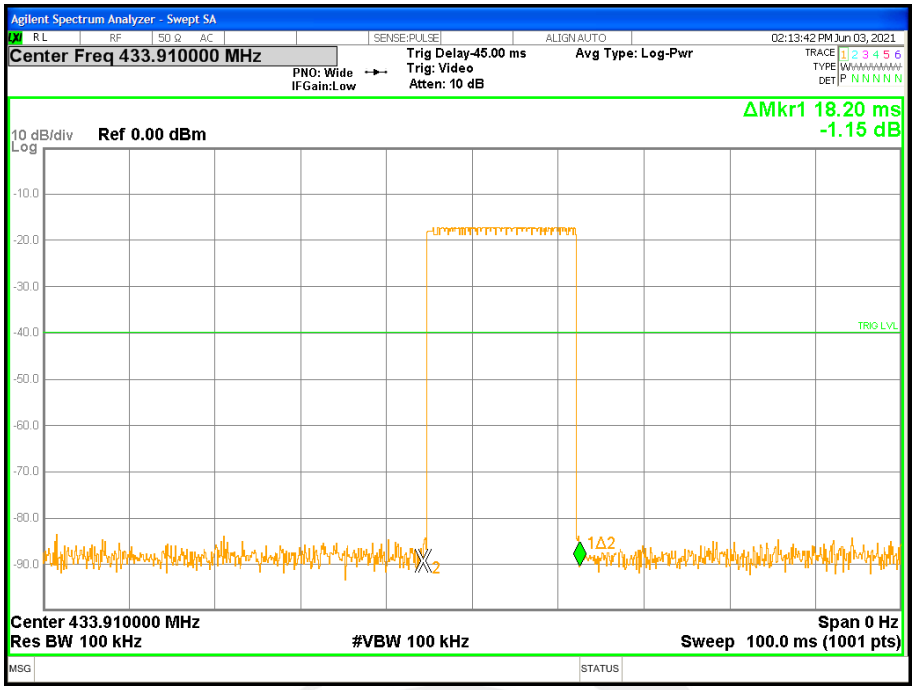

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:PULSE
ALIGN AUTO
04:27:58 PM Jun 03, 2021
Center Freq 433.910000 MHz
PNO: Wide
IFGain:Low
Trig Delay-46.00 ms
Trig: Video
Atten: 10 dB
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE WWWWW
DET P N N N N N
ΔMkr1 18.20 ms
0.65 dB
10 dB/div
Log
Ref 0.00 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
TRIG LVL
1Δ2
Center 433.910000 MHz
Res BW 100 kHz
#VBW 100 kHz
Span 0 Hz
Sweep 100.0 ms (1001 pts)
MSG
STATUS

Mode 4

FCC Part15.231(e) RSS 210 Issue 10	
Total On interval in a complete pulse train(ms)	18.2
Length of a complete pulse train(ms)	100
Duty Cycle(%)	18.20%
Duty Cycle Correction Factor(dB)	14.80

Refer to the duty cycle plot (as below), This device meets the FCC requirement. Length of a complete pulse train
Remark:FCC part15.35(c) and RSS 210 required that a complete pulse train is more than 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.




Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω
AC
SENSE:PULSE
ALIGN AUTO
02:13:42 PM Jun 03, 2021
Center Freq 433.910000 MHz
PNO: Wide
IFGain:Low
Trig Delay-45.00 ms
Trig: Video
Atten: 10 dB
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE WWWWW
DET P N N N N N
ΔMkr1 18.20 ms
-1.15 dB
10 dB/div
Log
Ref 0.00 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
TRIG LVL
1Δ2
Center 433.910000 MHz
Res BW 100 kHz
#VBW 100 kHz
Span 0 Hz
Sweep 100.0 ms (1001 pts)
MSG
STATUS

8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

According to the FCC Part 15 Paragraph 15.203 and RSS Gen, 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 to the intentional radiator shall be considered sufficient to comply with the provisions of this section. This product use a permanent ceramic printed antenna, fulfill the requirement of this section

8.2 EUT ANTENNA

The EUT antenna is Copper-Nickel-Zinc Alloy antenna.It conforms to the standard requirements.

APPENDIX 1-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※