

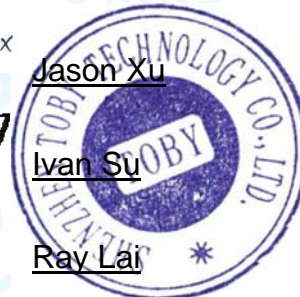
FCC Radio Test Report

FCC ID: 2APEB-X10

Report No. : TB-FCC158966
Applicant : Shenzhen Weigav Technology Co., Ltd.
Equipment Under Test (EUT)
EUT Name : Tire Pressure Monitoring System
Model No. : X10
Serial Model No. : X10S
Brand Name : Weigav
Receipt Date : 2018-03-23
Test Date : 2018-03-24 to 2018-04-02
Issue Date : 2018-04-03
Standards : FCC Part 15, Subpart C (15.231(e):2017)
Test Method : ANSI C63.10:2013
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above,
The EUT technically complies with the FCC requirements

Test/Witness Engineer : *Jason Xu*
Engineer Supervisor : *IVAN SU*
Engineer Manager : *Ray Lai*



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0

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Revision History

Report No.	Version	Description	Issued Date
TB-FCC158966	Rev.01	Initial issue of report	2018-04-03

1. General Information about EUT

1.1 Client Information

Applicant	:	Shenzhen Weigav Technology Co., Ltd.
Address	:	2/F, B5, Bao'an Internet industry Base, Baoyuan Road, Ban'an District, Shenzhen, Guangdong Province, China
Manufacturer	:	Shenzhen Weigav Technology Co., Ltd.
Address	:	2/F, B5, Bao'an Internet industry Base, Baoyuan Road, Ban'an District, Shenzhen, Guangdong Province, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Tire Pressure Monitoring System	
Models No.	:	X10, X10S	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.	
Product Description	:	Operation Frequency:	433.92 MHz
	:	Max Out Power:	72.65 dBuV/m (PK Max.) 64.75 dBuV/m (AV Max.)
	:	Antenna Gain:	3dBi Internal Antenna
	:	Modulation Type:	FSK
Power Rating	:	DC 3.0V by button Battery(CR1632).	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

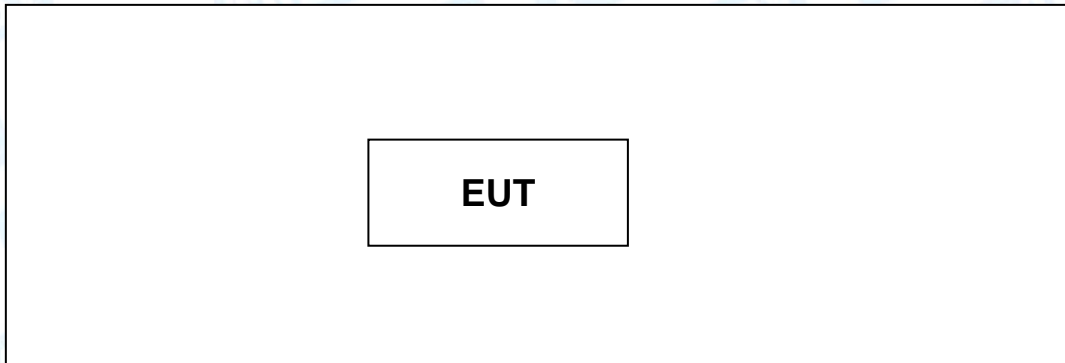
Note:

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

Antenna	Brand	Model Name	Type	Antenna Gain(dBi)
1	N/A	N/A	Internal Ant.	3

1.3 Block Diagram Showing the Configuration of System Tested

TX Mode



1.4 Description of Support Units

The EUT has been test as an independent unit.

1.5 Description of Test Mode

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 follow was evaluated respectively.

Test Items	Note
Conducted Emission	N/A
Radiated Emission	Continuously transmitting
Bandwidth	Continuously transmitting
Duty Cycle	Continuously transmitting
Release Time	Normal Mode

Note:

- (1) During the testing procedure, the continuously transmitting mode was programmed by the customer.
- (2) The EUT is considered a fixed unit, and it was pre-tested on the positioned of each 3 axis: X axis, Y axis and Z axis. The worst case was found positioned on Z-plane. There for only the test data of this Z-plane were used for radiated emission measurement test.

1.6 Description of Test Software Setting

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 of transmitting mode.

RF Power Setting in Test SW:	DEF
-------------------------------------	-----

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz	± 3.42 dB
	150kHz to 30MHz	± 3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

2. Test Summary

FCC Part 15 Subpart (15.231(e))			
Standard Section	Test Item	Judgment	Remark
FCC			
15.203	Antenna Requirement	PASS	N/A
15.207	Conducted Emission	N/A	N/A
15.231(e)	Release Time	PASS	N/A
	Radiation Emission	PASS	N/A
	20 dB Bandwidth	PASS	N/A
	Duty Cycle	PASS	N/A

Note: N/A is an abbreviation for Not Applicable.

3. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 20, 2017	Jul. 19, 2018
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 20, 2017	Jul. 19, 2018
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 20, 2017	Jul. 19, 2018
LISN	Rohde & Schwarz	ENV216	101131	Jul. 21, 2017	Jul. 20, 2018
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 20, 2017	Jul. 19, 2018
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 20, 2017	Jul. 19, 2018
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.16, 2018	Mar. 15, 2019
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.16, 2018	Mar. 15, 2019
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.16, 2018	Mar. 15, 2019
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.16, 2018	Mar. 15, 2019
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 03, 2017	Jul. 02, 2018
Pre-amplifier	Sonoma	310N	185903	Mar.17, 2018	Mar. 16, 2019
Pre-amplifier	HP	8449B	3008A00849	Mar.17, 2018	Mar. 16, 2019
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.17, 2018	Mar. 16, 2019
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 20, 2017	Jul. 19, 2018
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 20, 2017	Jul. 19, 2018
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Oct. 26, 2017	Oct. 25, 2018
Vector Signal Generator	Agilent	N5182A	MY50141294	Oct. 26, 2017	Oct. 25, 2018
Analog Signal Generator	Agilent	N5181A	MY50141953	Oct. 26, 2017	Oct. 25, 2018
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Oct. 26, 2017	Oct. 25, 2018
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Oct. 26, 2017	Oct. 25, 2018
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Oct. 26, 2017	Oct. 25, 2018
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Oct. 26, 2017	Oct. 25, 2018

4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1 Test Standard

FCC 15.207

4.1.2 Test Limit

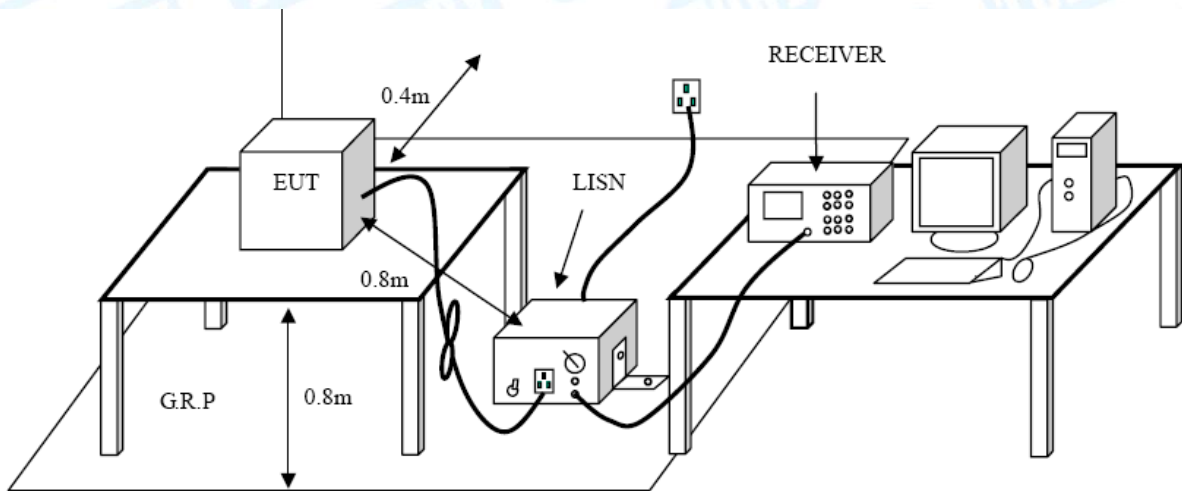
Conducted Emission Test Limit

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

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

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

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

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

4.4 Test Data

The EUT is powered by DC battery, no requirement for this test item.

5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC 15.231e

5.1.2 Test Limit

According to FCC 15.231(e) requirement:

In addition to the provisions of Section 15.205, the field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolt/meter) at 3m	Field Strength of Spurious Emissions (microvolt/meter) at 3m
40.66~40.70	1000	100
70~130	500	50
130~174	500 to 1500(**)	50 to 150(**)
174~260	1500	150
260~470	1500 to 5000(**)	150 to 500(**)
Above 470	5000	500

** Linear interpolations, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

(1) for the band 130~174 MHz, $\mu\text{V/m}$ at 3 meters= $22.7273(F)-2454.5455$;

(2) for the band 260~470 MHz, $\mu\text{V/m}$ at 3 meter= $16.6667(F)-2833.3333$.

(3) The maximum permitted unwanted emissions level is 20 dB below the maximum permitted fundamental level. In addition field strength of any emissions which appear inside of the restriction band shall not exceed the general radiated emissions limits in FCC 15.209.

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	2400/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3

216~960	200	3
Above 960	500	3

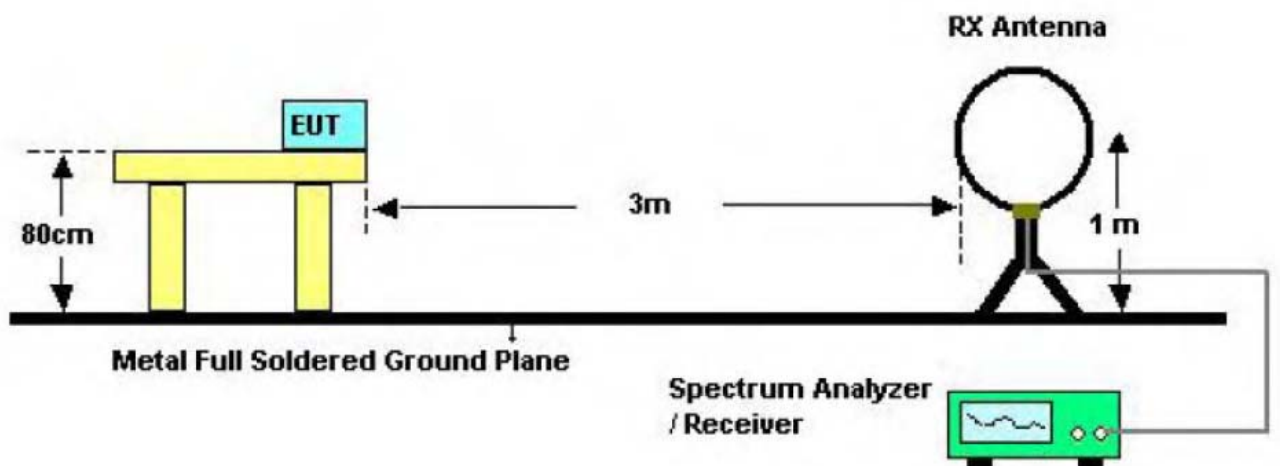
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

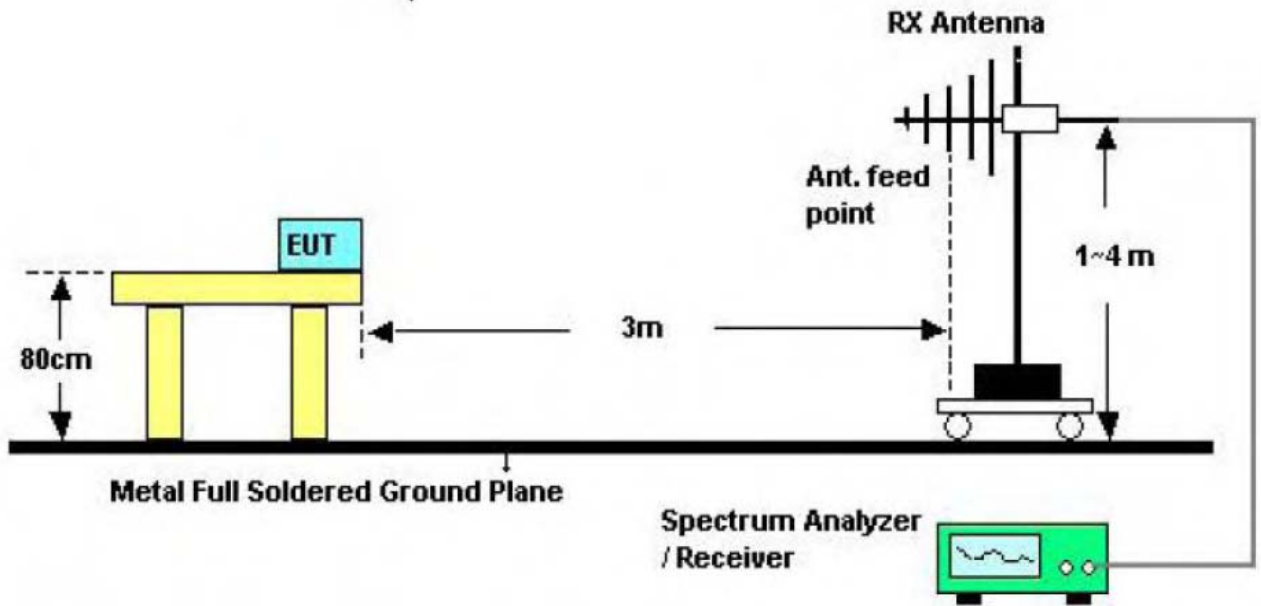
So the field strength of emission limits have been calculated in below table.

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolt/meter) at 3m
433.92 MHz	92.87 (Peak)
433.92 MHz	72.87 (AVG)

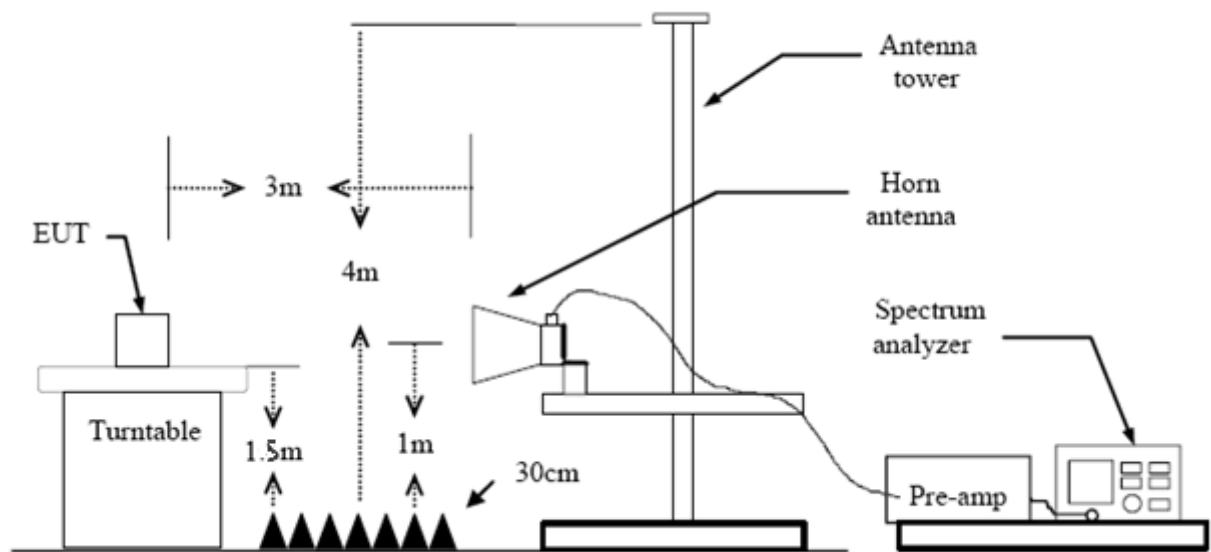
5.2 Test Setup



Bellow 30MHz Test Setup



Bellow 1000MHz Test Setup



Above 1GHz Test Setup

5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by

3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.

- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values.
Average Values=Peak Values+20log (Duty Cycle)
- (8) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

5.5 Test Data

Please refer to the Attachment A.

6. Bandwidth

6.1 Test Standard and Limit

6.1.1 Test Standard

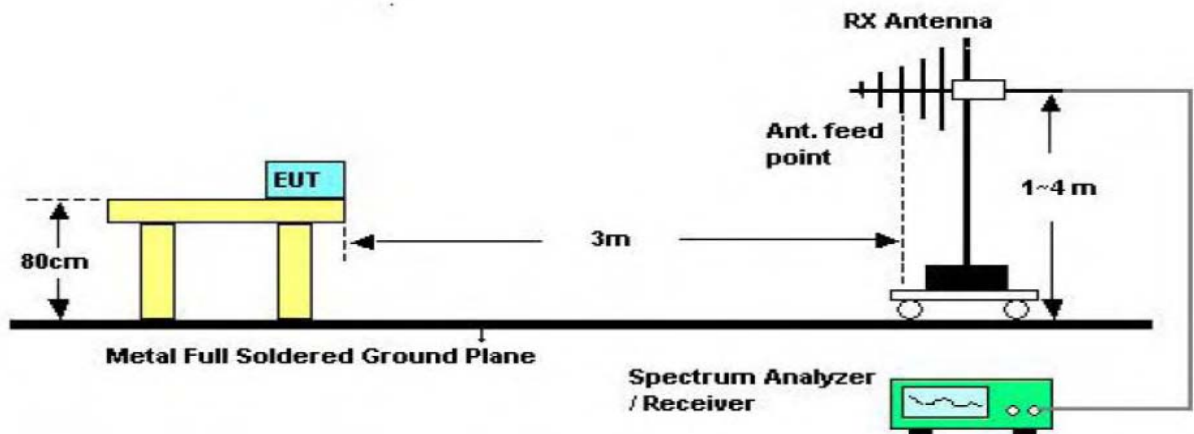
FCC 15.231/RSS 210 Annex 1

6.1.2 Test Limit

The 99% bandwidth of the emissions shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. So the emission bandwidth limits have been calculated in below table.

Fundamental Frequency	20 dB Bandwidth Limits (MHz)
433.92 MHz	1.0848

6.2 Test Setup



6.3 Test Procedure

- (1) Set Spectrum Analyzer Center Frequency= Fundamental Frequency, RBW=10 kHz, VBW= 30 kHz, Span= 1 MHz.
- (2) Measured the spectrum width with power higher than 20 dB below carrier.

6.4 EUT Operating Condition

The Equipment Under Test was Programmed to be in continuously transmitting mode.

6.5 Test Data

Please refer to the Attachment B.

7. Release Time Measurement

7.1 Test Standard and Limit

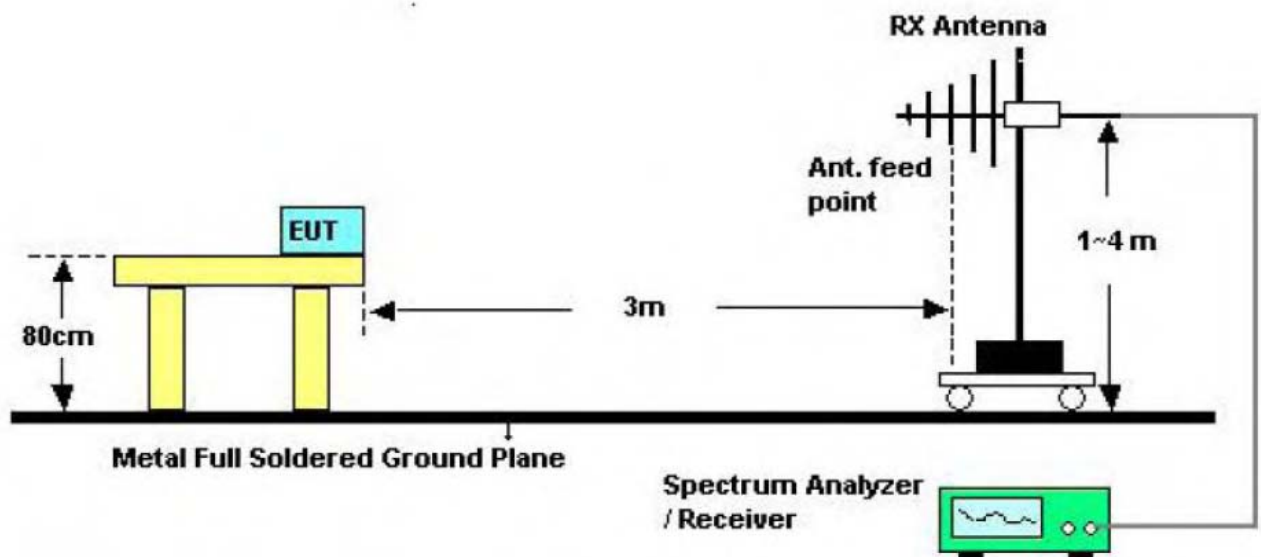
7.1.1 Test Standard

FCC 15.231(e)

7.1.2 Test Limit

According to FCC Part 15.231 (e), the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

7.2 Test Setup



7.3 Test Procedure

- (1) Setup the EUT as show in the block diagram above.
- (2) Set Spectrum Analyzer Centre Frequency= Fundamental Frequency, RBW=100 kHz, VBW= 300 kHz, Span= 0 Hz.
- (3) Setup the EUT as normal operation and press Transmitter button.
- (4) Set Spectrum Analyzer View, Delta Mark time.

7.4 EUT Operating Condition

The EUT was set to work in transmitting mode.

7.5 Test Data

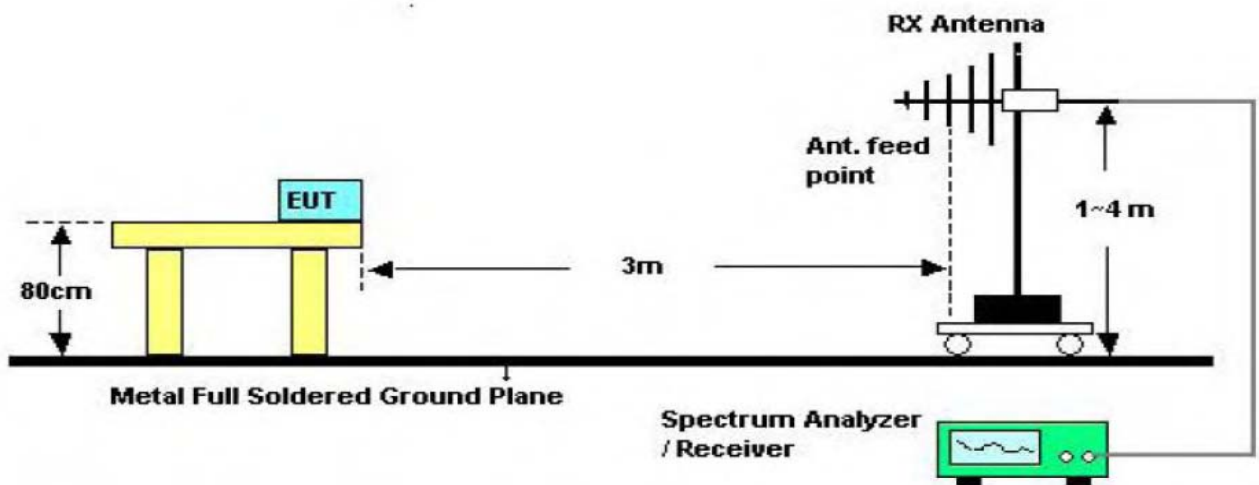
Please refer to the Attachment C.

8. Duty Cycle

8.1 Test Standard and Limit

5.1.1 Test Standard
FCC 15.231

8.2 Test Setup



8.3 Test Procedure

- (1) The EUT was placed on a turntable which is 0.8m above ground plane.
- (2) Set EUT operating in continuous transmitting mode.
- (3) Set the Spectrum Analyzer to the transmitter carrier frequency, and set the spectrum analyzer resolution bandwidth (RBW) to 100 kHz and video bandwidth (VBW) to 300 kHz, Span was set to 0 Hz.
- (4) The Duty Cycle was measured and recorded.

8.4 EUT Operating Condition

The EUT was programmed to be in transmitting mode.

8.5 Test Data

Please refer to the Attachment D.

9. Antenna Requirement

9.1 Standard Requirement

9.1.1 Standard

FCC Part 15.203

9.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator 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.

9.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 3 dBi, and the antenna connector is de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

The EUT antenna is an Internal Antenna. It complies with the standard requirement.

Antenna Type
<input checked="" type="checkbox"/> Permanent attached antenna
<input type="checkbox"/> Unique connector antenna
<input type="checkbox"/> Professional installation antenna

Attachment A-- Radiated Emission Test Data

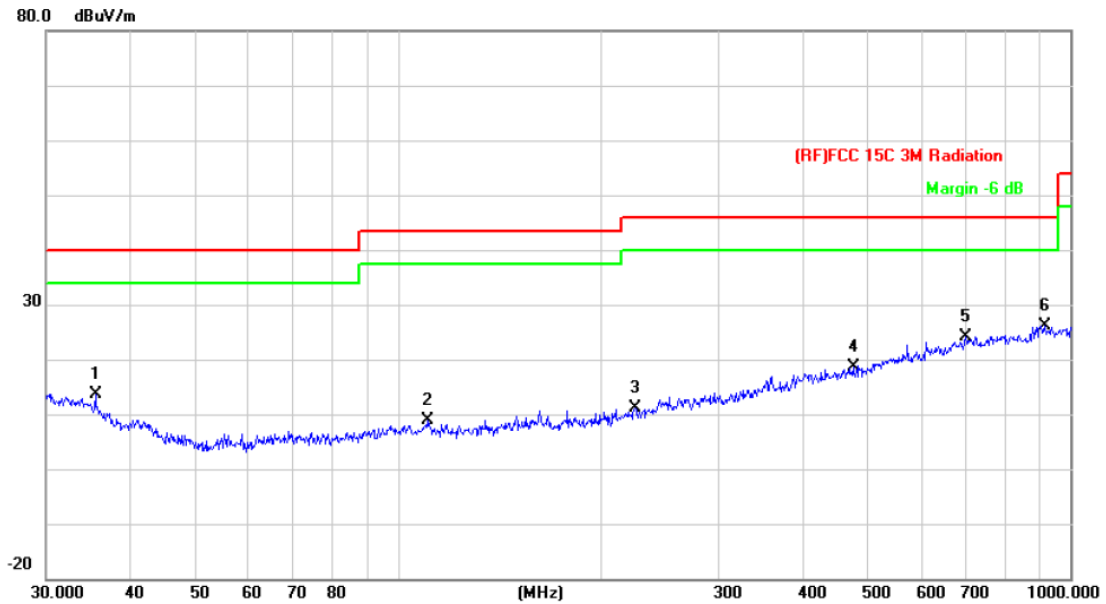
9 KHz to 30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

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

30MHz-1GHz

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.0V		
Ant. Pol.	Horizontal		
Test Mode:	Standby Mode		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		

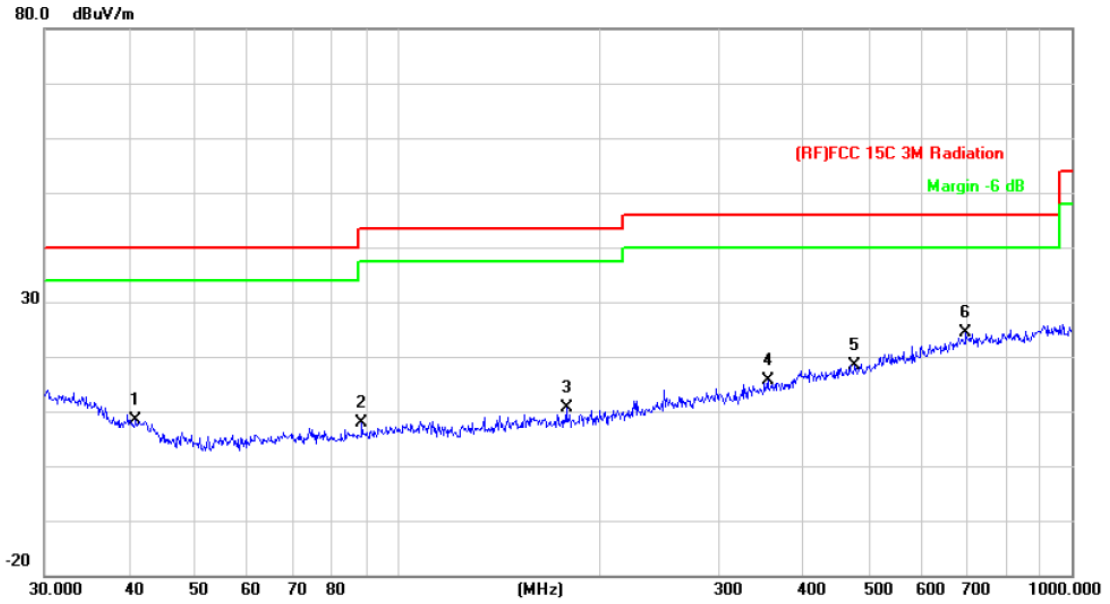


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		35.4993	30.36	-16.85	13.51	40.00	-26.49	peak
2		110.5687	30.23	-21.31	8.92	43.50	-34.58	peak
3		225.3080	29.42	-18.31	11.11	46.00	-34.89	peak
4		475.4991	29.22	-10.70	18.52	46.00	-27.48	peak
5		699.3046	30.00	-5.80	24.20	46.00	-21.80	peak
6	*	916.0687	29.68	-3.49	26.19	46.00	-19.81	peak

Average Value=Peak Value-7.9

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.0V		
Ant. Pol.	Vertical		
Test Mode:	Standby Mode		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		40.9881	28.51	-20.02	8.49	40.00	-31.51	peak
2		88.6524	30.16	-22.23	7.93	43.50	-35.57	peak
3		178.1327	30.40	-19.87	10.53	43.50	-32.97	peak
4		354.1831	29.06	-13.52	15.54	46.00	-30.46	peak
5		477.1694	29.15	-10.72	18.43	46.00	-27.57	peak
6	*	696.8567	29.72	-5.42	24.30	46.00	-21.70	peak

Average Value=Peak Value-7.9

Emission Level= Read Level+ Correct Factor

Fundamental and Harmonics emissions

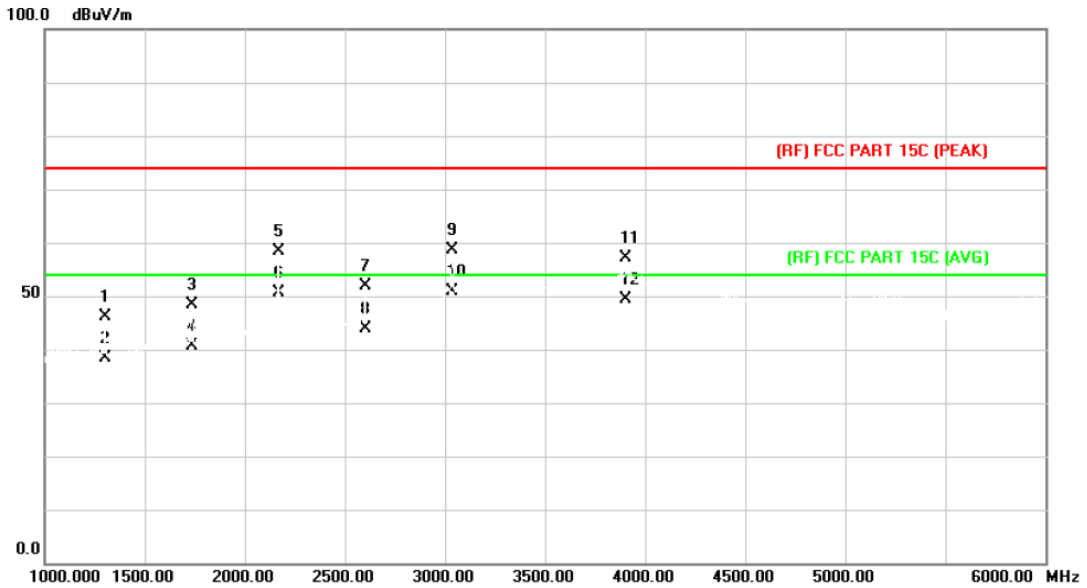
Below 1G

Temperature:		25 °C		Relative Humidity:		55%	
Test Voltage:		DC 3.0V					
Test Mode:		TX Mode					
Freq. (MHz)	Ant.Pol H/V	Emission Level (dBuV/m)		Limit 3m (dBuV/m)		Margin(dB)	
		PK	AV	PK	AV	PK	AV
434.0651	H	72.65	64.75	92.87	72.87	-13.04	-4.28
869.1302	H	56.17	/	72.87	/	-17.03	/
434.0651	V	58.05	50.15	92.87	72.87	-12.34	-3.80
869.1302	V	40.91	/	72.87	/	-12.85	/
Average Value=Peak Value-7.9							
Margin=Emission Level-Limit							

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+ Probe Factor +Cable Loss
 - (3) The QP measurement was not performed when the peak measured data under the limit of QP detection.

Above 1G

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.0V		
Ant. Pol.	Horizontal		
Test Mode:	TX Mode		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		

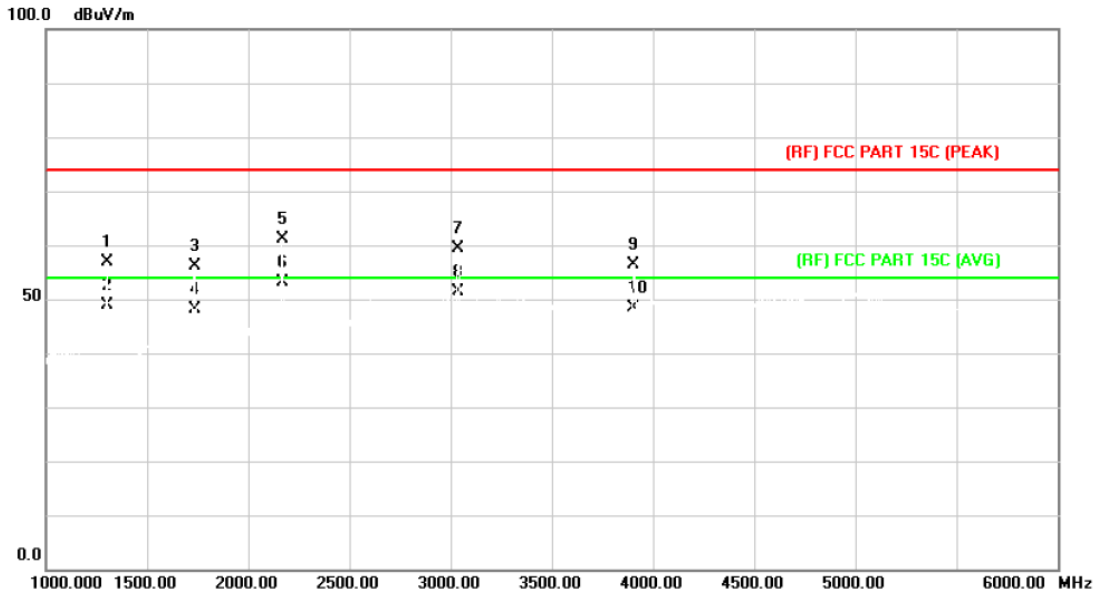


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		1301.332	51.49	-5.33	46.16	74.00	-27.84	peak
2		1301.332	43.59	-5.33	38.26	54.00	-15.74	AVG
3		1736.483	51.51	-3.07	48.44	74.00	-25.56	peak
4		1736.483	43.61	-3.07	40.54	54.00	-13.46	AVG
5		2168.510	58.55	-0.07	58.48	74.00	-15.52	peak
6		2168.510	50.65	-0.07	50.58	54.00	-3.42	AVG
7		2603.351	49.83	2.02	51.85	74.00	-22.15	peak
8		2603.351	41.93	2.02	43.95	54.00	-10.05	AVG
9		3037.063	54.18	4.56	58.74	74.00	-15.26	peak
10	*	3037.063	46.28	4.56	50.84	54.00	-3.16	AVG
11		3909.967	47.62	9.57	57.19	74.00	-16.81	peak
12		3909.967	39.72	9.57	49.29	54.00	-4.71	AVG

Emission Level= Read Level+ Correct Factor

Average Value=Peak Value-7.9

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX Mode		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		1301.332	62.13	-5.33	56.80	74.00	-17.20	peak
2		1301.332	54.23	-5.33	48.90	54.00	-5.10	AVG
3		1736.483	59.10	-3.07	56.03	74.00	-17.97	peak
4		1736.483	51.20	-3.07	48.13	54.00	-5.87	AVG
5		2168.510	61.14	-0.07	61.07	74.00	-12.93	peak
6	*	2168.510	53.24	-0.07	53.17	54.00	-0.83	AVG
7		3037.063	54.73	4.56	59.29	74.00	-14.71	peak
8		3037.063	46.83	4.56	51.39	54.00	-2.61	AVG
9		3909.967	46.79	9.57	56.36	74.00	-17.64	peak
10		3909.967	38.89	9.57	48.46	54.00	-5.54	AVG

Emission Level= Read Level+ Correct Factor

Average Value=Peak Value-7.9

Other harmonics emissions are lower than 20dB below the allowable limit.

- Note:**
- (1) All Readings are Peak Value and AV. And AV is calculated by the following:
Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values.
Average Values=Peak Values+20log (Duty Cycle)
 - (2) Emission Level= Reading Level + Probe Factor +Cable Loss
 - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Pulse Desensitization Correction Factor

Note:

(1)The Smallest Pulse Width (PW)= 20.25ms

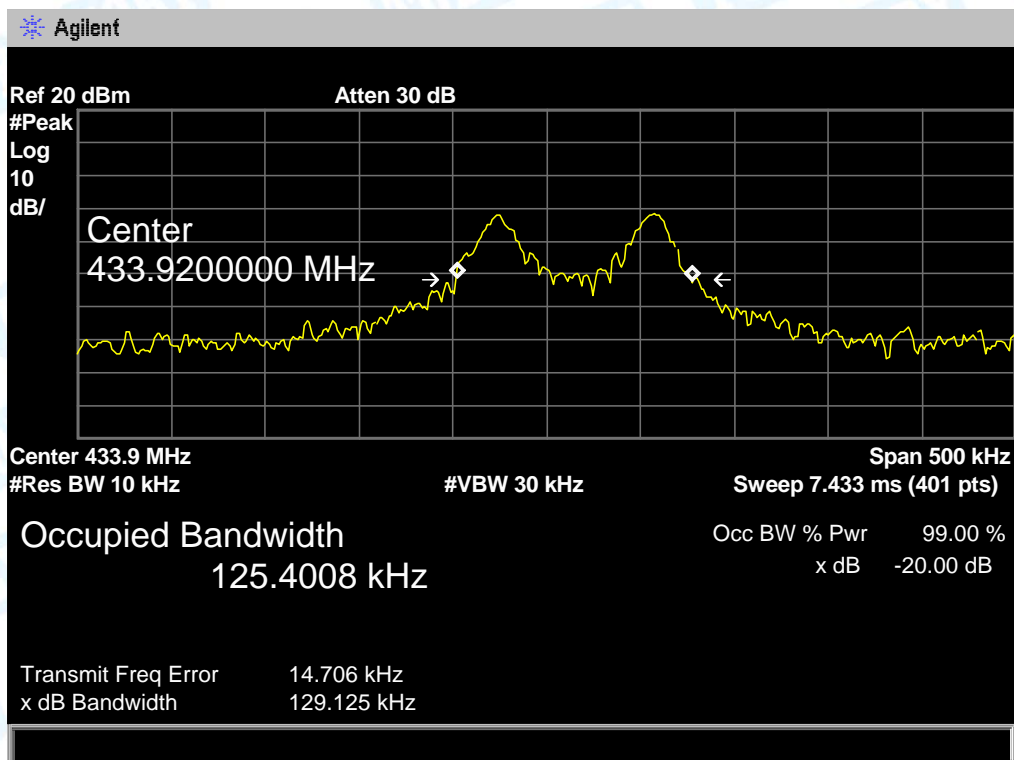
(2) $2/PW=2/20.25$ (ms)= 0.1kHz<100 kHz

Because $2/PW < RBW$, so the PDCF is not needed.

Attachment B--Bandwidth Data

Temperature	:	25 °C
Relative Humidity	:	65 %
Pressure	:	1010 hPa
Test Power	:	DC 3.0V

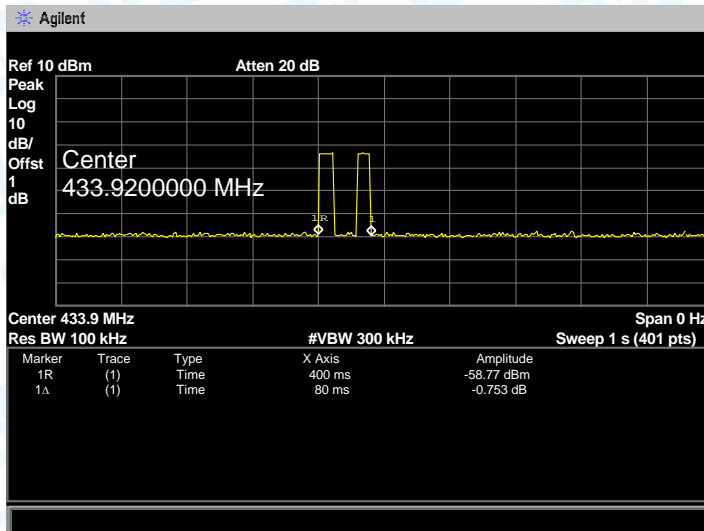
Frequency (MHz)	20 dBc Bandwidth (kHz)	99% OBW (kHz)	Result
433.92	129.125	125.4008	PASS



Attachment C-- Release Time Measurement Data

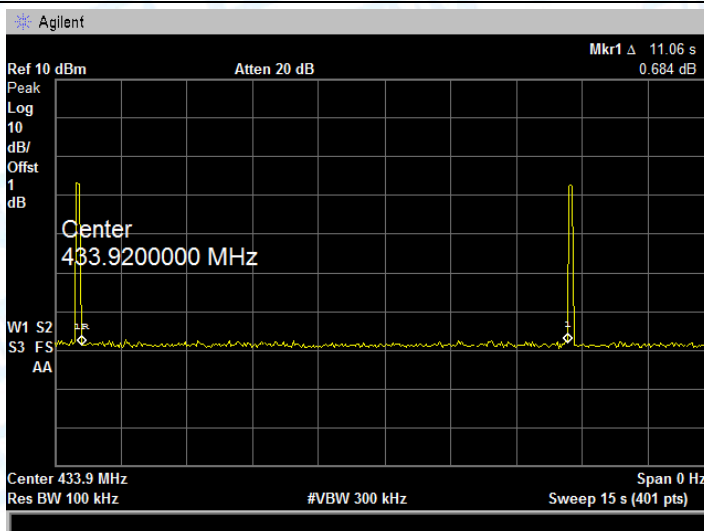
Temperature	:	25 °C
Relative Humidity	:	65 %
Pressure	:	1010 hPa
Test Power	:	DC 3.0V

Release Time(s)	Limit (s)	Result
0.08	1	PASS



Silent period (s)	Limit (s)	Result
11.06	>10s >30* Release Time	PASS

Note: 30* Release Time=2.4s



Attachment D--Duty Cycle Data

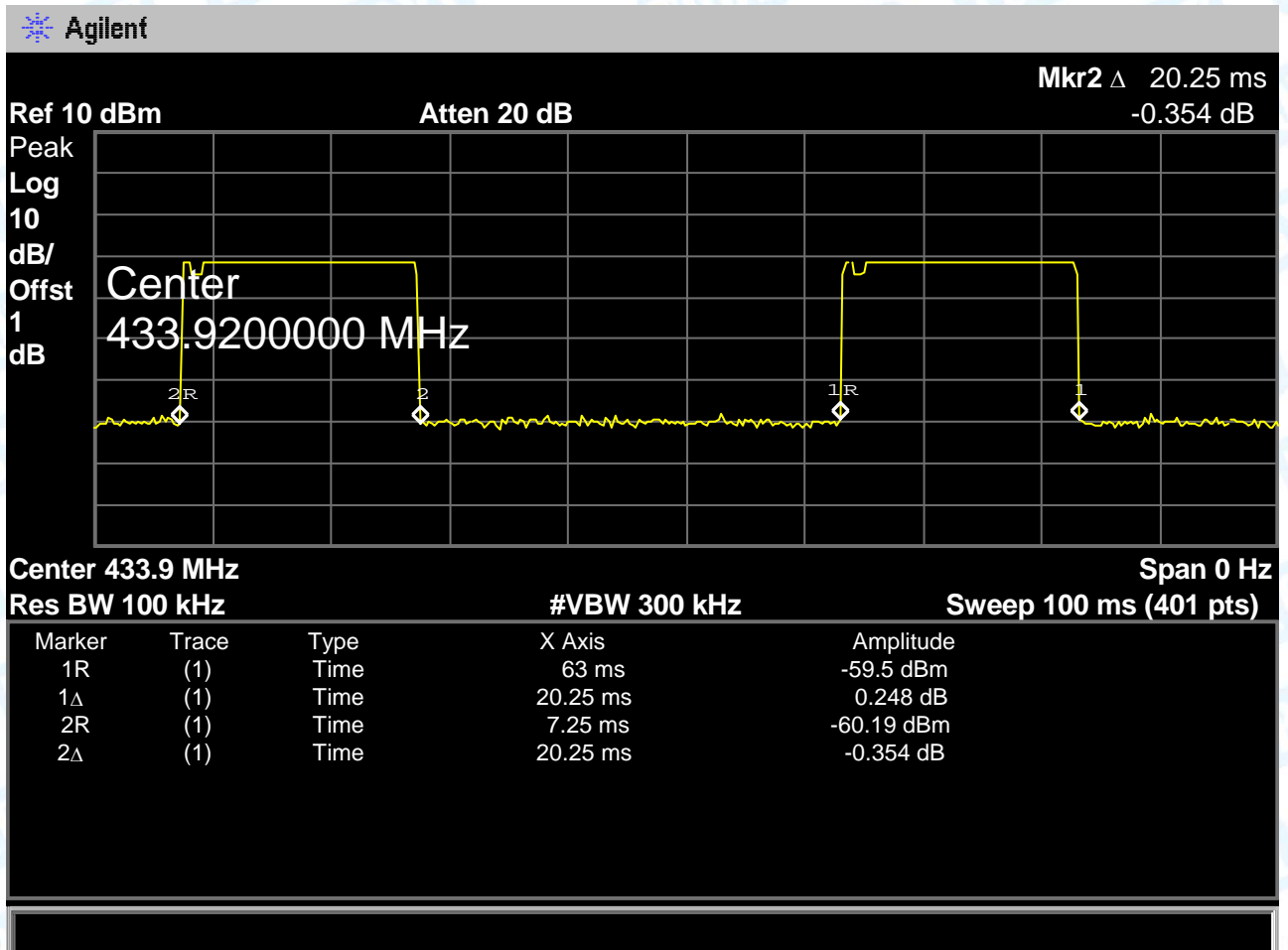
Plot 1/Plot 2: transmit once in 100ms, and each cycle is 40.50 ms there are one kind of pulse in each cycle, the pulses total 2. pulse in a time period of 20.25ms

Duty Cycle=ON/Total=(20.25+20.25)/100=40.25/100=40.25%

20 log(Duty Cycle)=-7.9

Average=Peak Value+20log(Duty Cycle), AV=PK-7.9

Plot 1



-----END OF REPORT-----