FCC Test Report

Report No.	:	**1812C50050012501**
Applicant	:	**Zemismart Technology Limited**
Address	:	**No.1 Shuiqing Road, Liandong U Valley Building 10, Room 602, Shuikou Street, Huicheng District, Huizhou City 516006, China**
Product Name	:	**Smart Window Shading System Driver**
Report Date	:	**Mar. 11, 2025**

Shenzhen Anbotek Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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TEST REPORT

Applicant	:	Zemismart Technology Limited
Manufacturer	:	Zemismart Technology Limited
Product Name	:	Smart Window Shading System Driver
Model No.	:	MTP1, MJP1, ZMP1, MTC1, MJC1, ZMC1, ZRP1, ZRC1, ZM85A, ZM85B, ZM85, ZM86A, ZM86B, ZM86, ZM85E, ZM85EL, ZM86E, ZM86EL
Trade Mark	:	Zemismart
Rating(s)	:	Input: 5V⎓1A(with DC 5V, 6400mAh Battery inside)

Test Standard(s)	**:**	**47 CFR Part 15.231**
Test Method(s)	**:**	**ANSI C63.10: 2020**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the 47 CFR Part 15.231 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt Feb. 18, 2025

Date of Test Feb. 18, 2025 to Feb. 28, 2025

Prepared by

(Haidi Huang)

Approved & Authorized Signer

(Hugo Chen)

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Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Mar. 11, 2025

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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1. General Information

1.1. Client Information

Applicant	:	Zemismart Technology Limited
Address	:	No.1 Shuiqing Road, Liandong U Valley Building 10, Room 602, Shuikou Street, Huicheng District, Huizhou City 516006, China
Manufacturer	:	Zemismart Technology Limited
Address	:	No.1 Shuiqing Road, Liandong U Valley Building 10, Room 602, Shuikou Street, Huicheng District, Huizhou City 516006, China
Factory	:	Zemismart Technology Limited
Address	:	No.1 Shuiqing Road, Liandong U Valley Building 10, Room 602, Shuikou Street, Huicheng District, Huizhou City 516006, China

1.2. Description of Device (EUT)

Product Name	:	Smart Window Shading System Driver
Model No.	:	MTP1, MJP1, ZMP1, MTC1, MJC1, ZMC1, ZRP1, ZRC1, ZM85A, ZM85B, ZM85, ZM86A, ZM86B, ZM86, ZM85E, ZM85EL, ZM86E, ZM86EL (Note: All samples are the same except the model number and appearance shape, so we prepare "MTP1" for test only.)
Trade Mark	:	Zemismart
Test Power Supply	:	AC 120V/60Hz for adapter/DC 5V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Operation Frequency	:	433.92MHz
Number of Channel	:	1 Channel
Modulation Type	:	ASK
Antenna Type	:	Ceramic Antenna
Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J

1.4. Description of Test Configuration

The engineering test program was provided and the EUT was programmed to be in transmitting mode.

Channel	Freq.(MHz)
01	433.92

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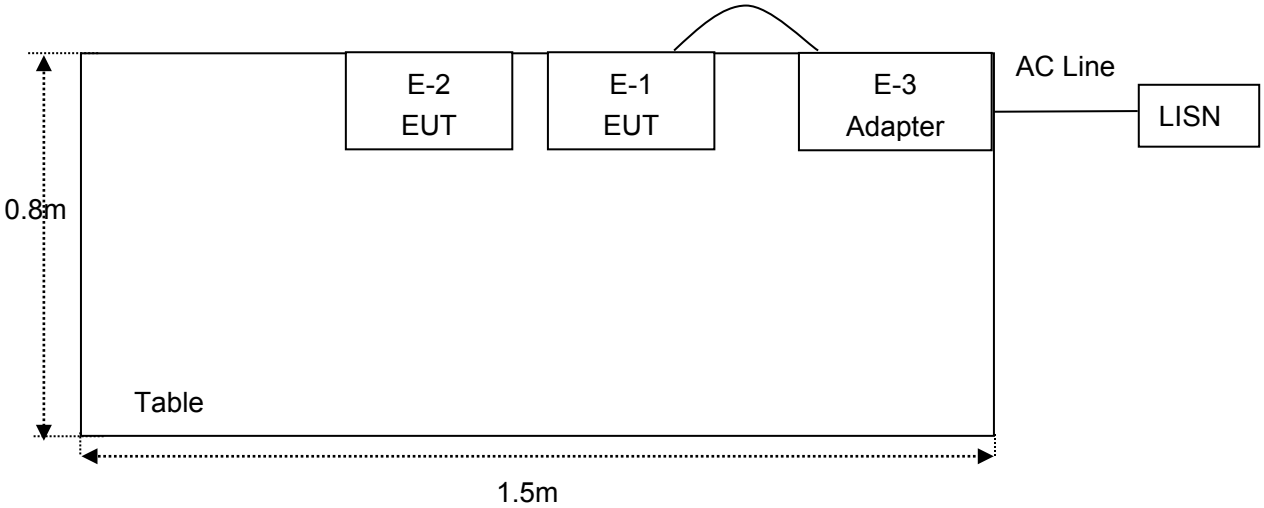
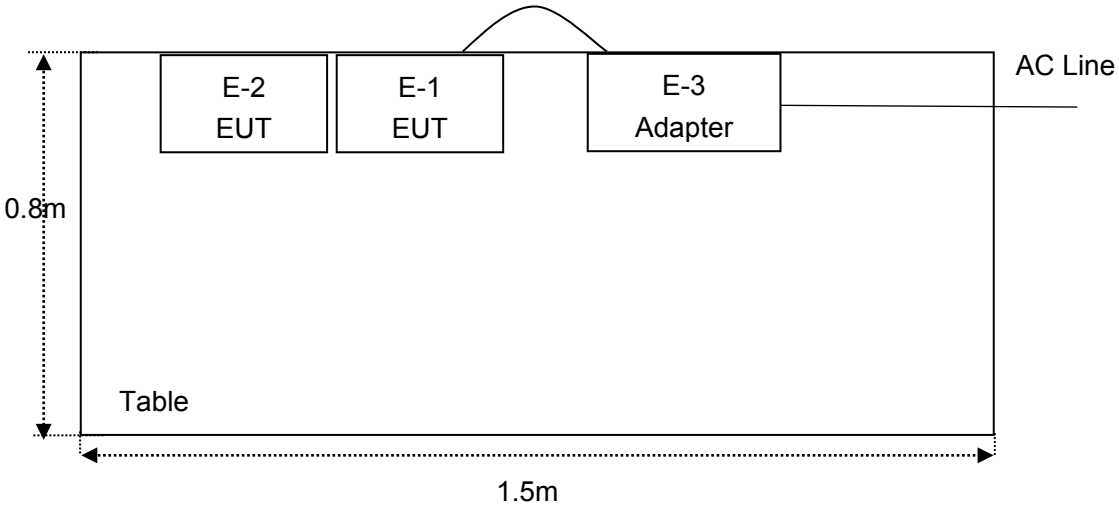
1.5. Description of Test Setup

CE



RE



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Sep. 09, 2024	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jan. 13, 2025	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Jan. 13, 2025	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Jan. 14, 2025	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Sep. 09, 2024	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	Jan. 13, 2025	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna(9K-30M)	Schwarzbeck	FMZB1519B	00053	Sep. 12, 2024	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Jan. 22, 2024	3 Year
11.	Pre-amplifier	SONOMA	310N	186860	Jan. 14, 2025	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Sep. 09, 2024	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420647	Jan. 14, 2025	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Feb. 21, 2025	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Sep. 09, 2024	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 14, 2024	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	May. 06, 2024	1 Year

1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.2dB
Occupied Bandwidth	925Hz
Duty Cycle	5%
Dwell Time	2%
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (Below 30MHz)	3.26dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.64dB 6G-18GHz: 4.82dB 18G-40GHz: 5.62dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.
Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. Summary of Test Results

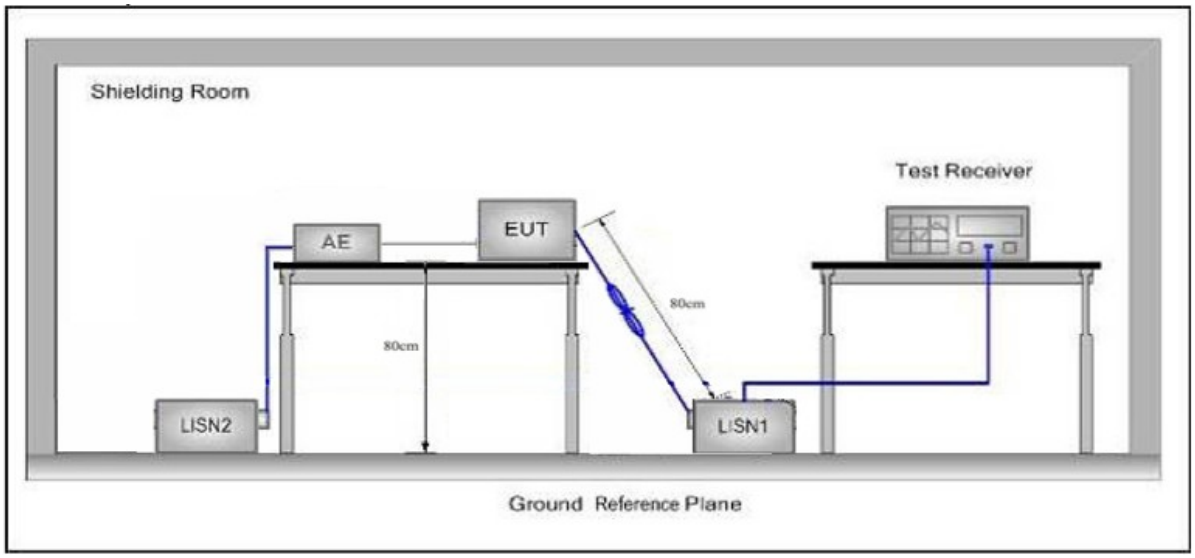
Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209/15.231(b)	Radiated emission, Spurious Emission and Field Strength of Fundamental	PASS
15.231(c)	20dB Occupied Bandwidth	PASS
15.231(a)	Dwell time	PASS
Remark: “N/A” is an abbreviation for Not Applicable.		

3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50
Remark: (1) *Decreasing linearly with logarithm of the frequency. (2) The lower limit shall apply at the transition frequency.			

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of 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 FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test CAR REMOTE (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

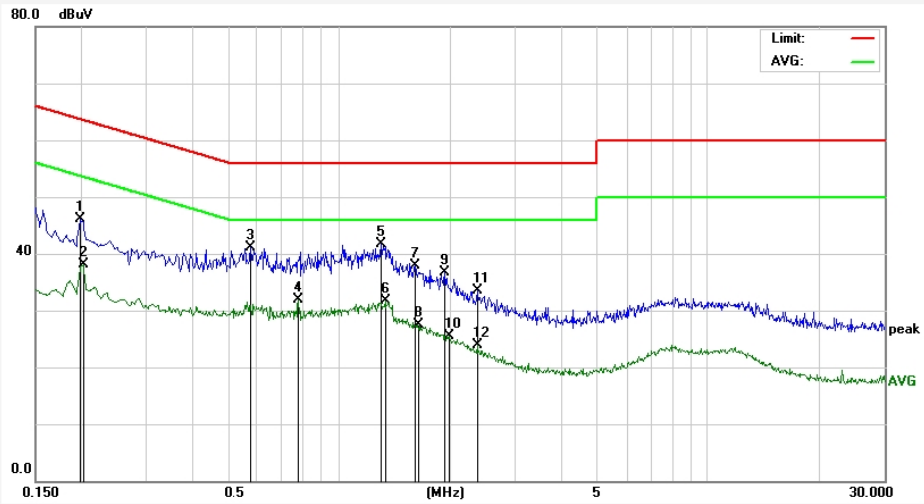
3.4. Test Data

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

Please to see the following pages.

Conducted Emission Test Data

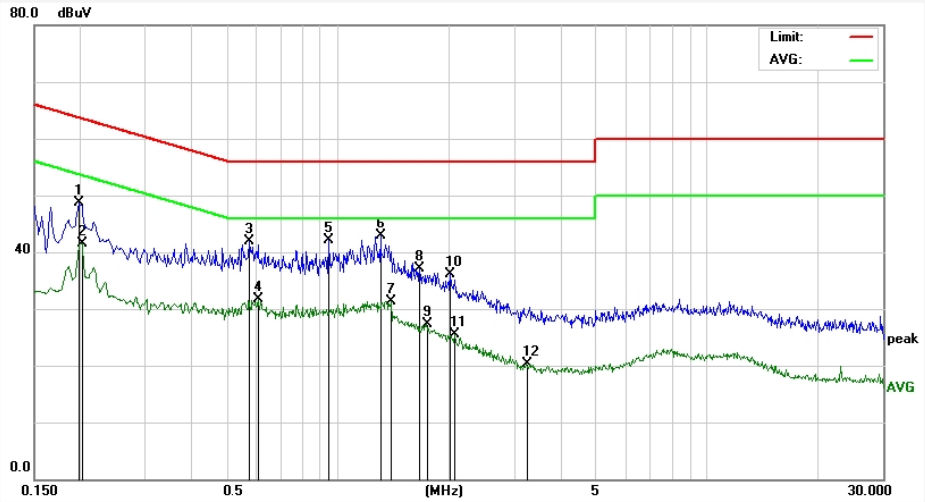
Test Site:	1# Shielded Room
Operating Condition:	433.92MHz
Test Specification:	AC 120V/60Hz for adapter
Comment:	Live Line
Temp.(℃)/Hum.(%RH):	22.1℃/52%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1980	28.22	17.83	46.05	63.69	-17.64	QP	
2	0.2020	20.29	17.83	38.12	53.52	-15.40	AVG	
3	0.5780	23.15	17.86	41.01	56.00	-14.99	QP	
4	0.7780	14.06	17.86	31.92	46.00	-14.08	AVG	
5	1.3020	23.78	17.84	41.62	56.00	-14.38	QP	
6	1.3340	13.82	17.84	31.66	46.00	-14.34	AVG	
7	1.6019	20.12	17.84	37.96	56.00	-18.04	QP	
8	1.6340	9.67	17.84	27.51	46.00	-18.49	AVG	
9	1.9340	18.78	17.83	36.61	56.00	-19.39	QP	
10	1.9900	7.69	17.83	25.52	46.00	-20.48	AVG	
11	2.3699	15.70	17.83	33.53	56.00	-22.47	QP	
12	2.3699	6.15	17.83	23.98	46.00	-22.02	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 433.92MHz
Test Specification: AC 120V/60Hz for adapter
Comment: Neutral Line
Temp.(℃)/Hum.(%RH): 22.1℃/52%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1980	30.78	17.83	48.61	63.69	-15.08	QP	
2	0.2020	23.72	17.83	41.55	53.52	-11.97	AVG	
3	0.5780	23.98	17.86	41.84	56.00	-14.16	QP	
4	0.6100	13.78	17.86	31.64	46.00	-14.36	AVG	
5	0.9460	24.19	17.85	42.04	56.00	-13.96	QP	
6	1.3060	25.00	17.84	42.84	56.00	-13.16	QP	
7	1.3980	13.53	17.84	31.37	46.00	-14.63	AVG	
8	1.6700	19.34	17.84	37.18	56.00	-18.82	QP	
9	1.7380	9.50	17.84	27.34	46.00	-18.66	AVG	
10	2.0140	18.26	17.83	36.09	56.00	-19.91	QP	
11	2.0700	7.61	17.83	25.44	46.00	-20.56	AVG	
12	3.2260	2.54	17.84	20.38	46.00	-25.62	AVG	

4. Field Strength of Fundamental and Spurious Emission

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209, 15.205 and 15.231(b)				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

the formulas for calculating the maximum permitted fundamental field strengths are as follows:
for the band 260-470 MHz, μV/m at 3 meters = 41.6667(F) - 7083.3333.

The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level Emission Level (dBuV/m)=20log Emission Level(uV/m)

The field strength of emission limits have been calculated in below table:

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBuV/m)@3m
433.92	80.82 (AVG)
433.92	100.82 (Peak)

4.2. Test Setup

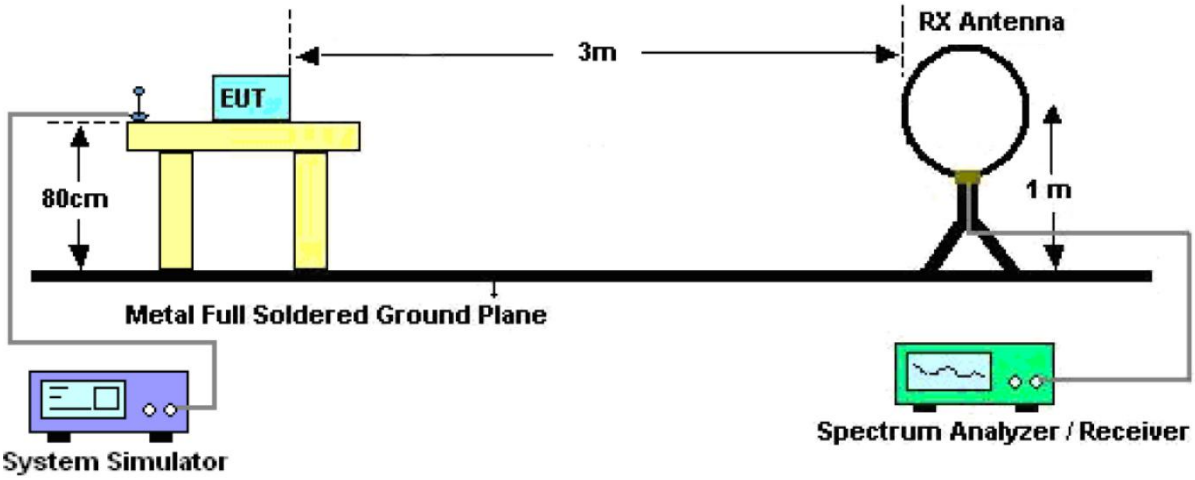


Figure 1. Below 30MHz

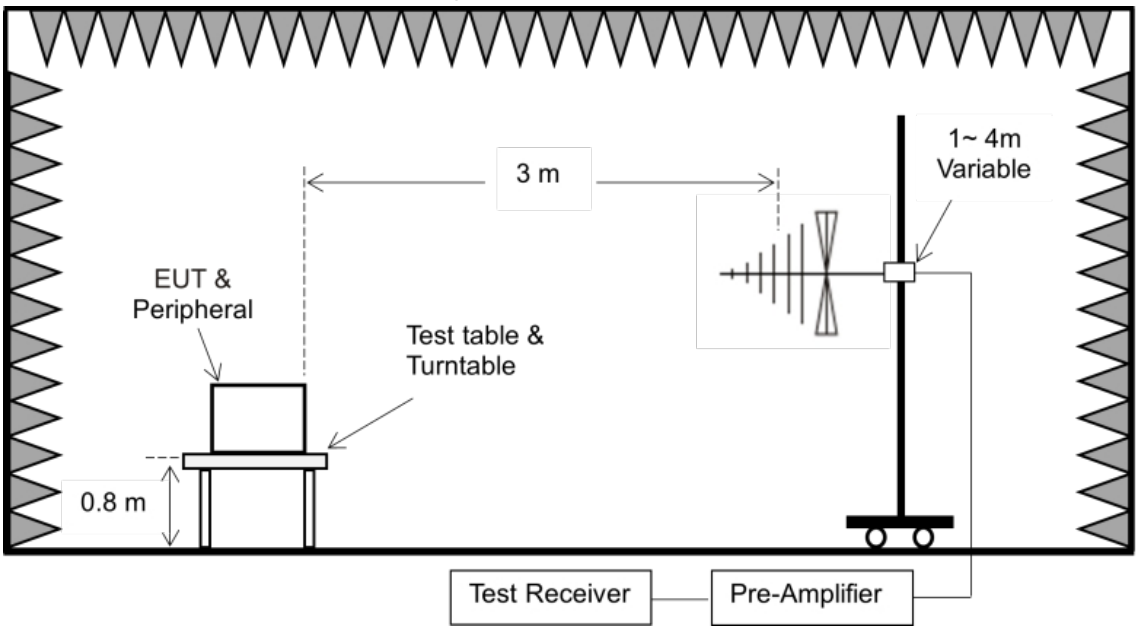


Figure 2. 30MHz to 1GHz

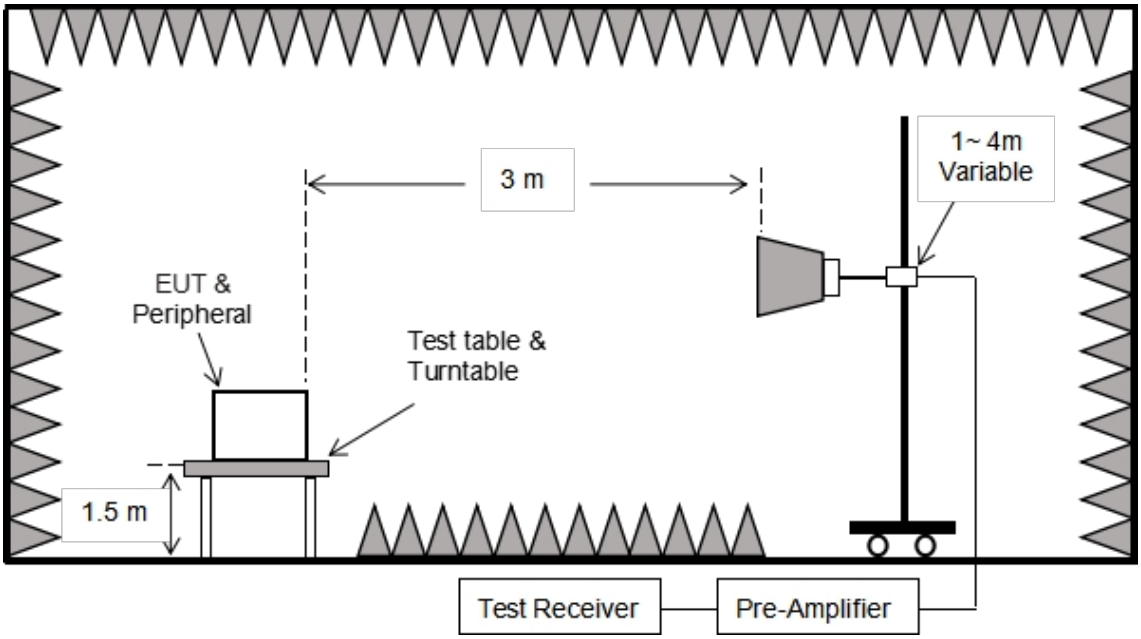


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:
RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:
RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:
RBW = 100kHz, VBW =300kHz,Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz,Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

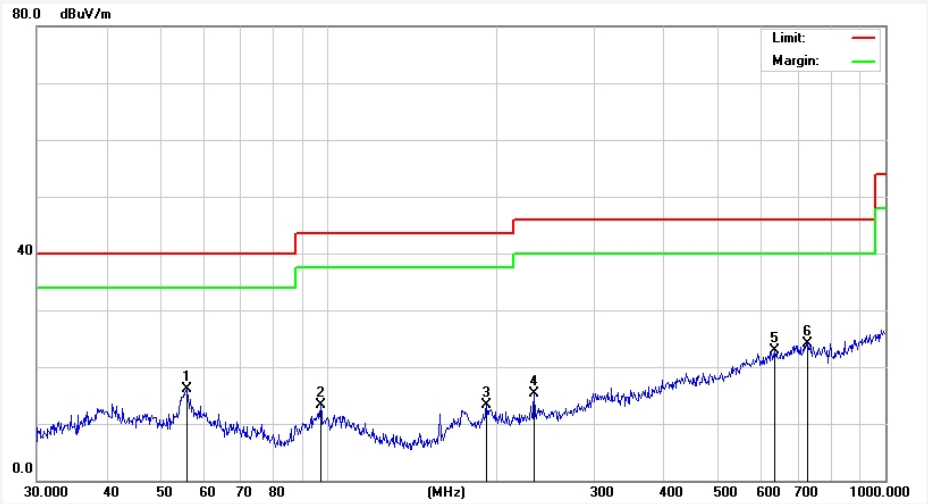
PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz are attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Test Results (30~1000MHz)

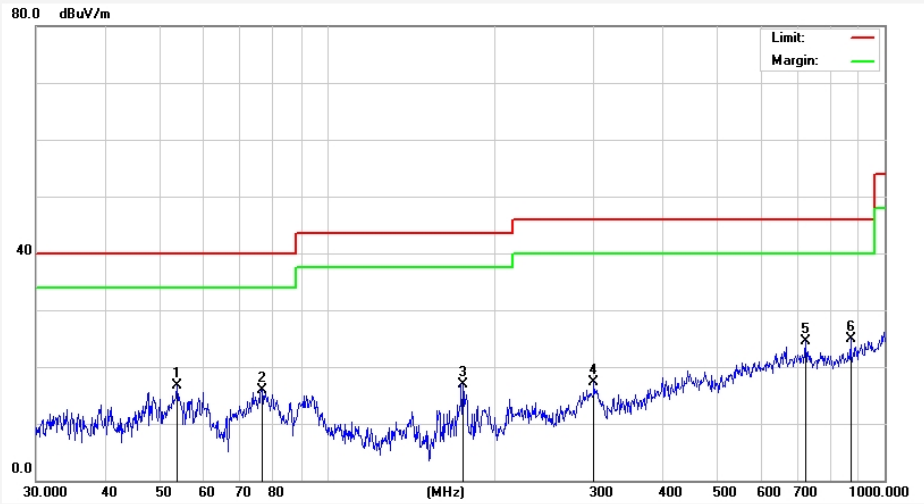
Test Mode:	433.92MHz
Power Source:	AC 120V/60Hz for adapter
Polarization:	Horizontal
Temp.(℃)/Hum.(%RH):	24.4℃/47%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	55.6094	33.88	-17.77	16.11	40.00	-23.89	QP			
2	97.1148	32.15	-18.94	13.21	43.50	-30.29	QP			
3	192.4186	33.93	-20.56	13.37	43.50	-30.13	QP			
4	234.1684	34.25	-18.91	15.34	46.00	-30.66	QP			
5	633.9073	32.16	-9.35	22.81	46.00	-23.19	QP			
6	726.8052	32.73	-8.60	24.13	46.00	-21.87	QP			

Test Results (30~1000MHz)

Test Mode:	433.92MHz
Power Source:	AC 120V/60Hz for adapter
Polarization:	Vertical
Temp.(℃)/Hum.(%RH):	24.4℃/47%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	53.6932	34.33	-17.61	16.72	40.00	-23.28	QP			
2	76.5121	38.35	-22.51	15.84	40.00	-24.16	QP			
3	175.0368	38.16	-21.25	16.91	43.50	-26.59	QP			
4	300.3672	34.07	-16.71	17.36	46.00	-28.64	QP			
5	721.7259	33.23	-8.65	24.58	46.00	-21.42	QP			
6	869.1302	32.42	-7.47	24.95	46.00	-21.05	QP			

Test Results (Fundamental)								
Mode	Freq. (MHz)	Antenna Pol.	Reading (dBuV/m)	Factor (dB)	Duty cycle Factor (dB)	Results (dBuV/m)	Limits (dBuV/m)	Det. Mode
TX Mode	433.92	H	88.11	-12.56	--	75.55	100.82	PK
	433.92	H	88.11	-12.56	0.00	75.55	80.82	AV
	433.92	V	88.42	-12.56	--	75.86	100.82	PK
	433.92	V	88.42	-12.56	0.00	75.86	80.82	AV

Remark:

1. Results = Reading + Factor + Duty cycle Factor

Test Results (Harmonics Emissions+Radiated Emissions from 1G-4G)							
Test Mode: 433.92MHz							
Frequency (MHz)	Antenna Pol.	Reading (dBuV/m)	Factor (dB)	Duty cycle Factor (dB)	Results (dBuV/m)	Limits (dBuV/m)	Det. Mode
867.84	H	24.56	-6.94	--	17.62	80.82	PK
867.84	H	24.56	-6.94	0.00	17.62	60.82	AV
867.84	V	25.37	-6.94	--	18.43	80.82	PK
867.84	V	25.37	-6.94	0.00	18.43	60.82	AV
1301.76	H	29.34	-6.94	--	22.40	74.00	PK
1301.76	H	29.34	-6.94	0.00	22.40	54.00	AV
1301.76	V	37.88	-6.94	--	30.94	74.00	PK
1301.76	V	37.88	-6.94	0.00	30.94	54.00	AV

Remark:

1. Result = Reading + Factor + Duty cycle Factor

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

Pulse Desensitization Correction Factor

Mode	Freq. (MHz)	Pulse Width (ms)	2/Pulse Width (kHz)
TX Mode	433.92	100.000	0.020

Remark:

RBW(1000kHz)＞2/Pulse Width, Therefore PDCF is not needed.

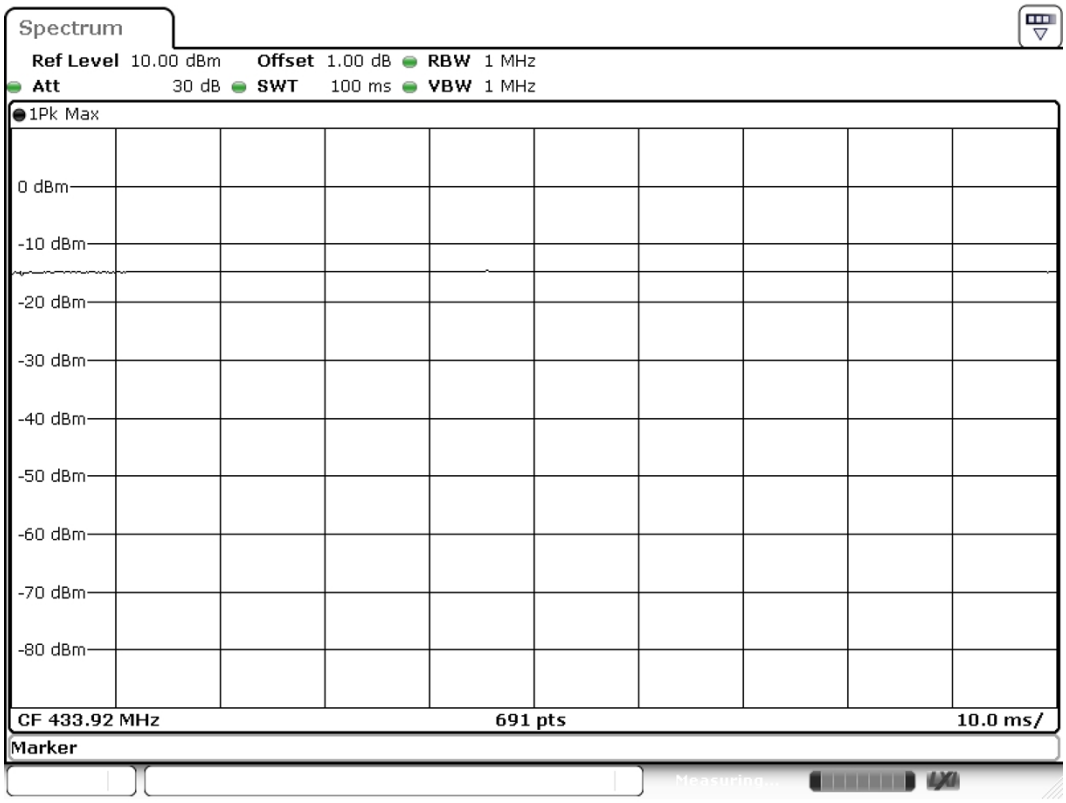
Duty Cycle Factor

Mode	Freq. (MHz)	T on (ms)	T period(ms)	Duty Cycle	Duty Cycle Factor
TX Mode	433.92	100.000	100	100.00%	0.00

Remark:

1. Duty Cycle=T on/T period
2. Duty Cycle Factor =20*lg(Duty Cycle)

T on

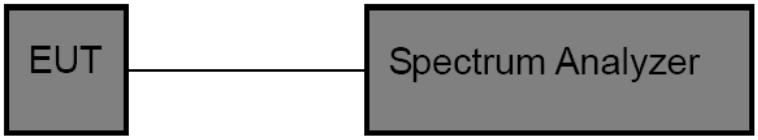


5. 20dB Occupy Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.231 (c)
Test Limit	According to FCC Part 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz. For devices operating above 900MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20dB down from the modulated carrier.

5.2. Test Setup



5.3. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
   RBW = 1% to 5% of the OBW, VBW≥3*RBW,
   Span= 2*OBW~5*OBW
   Detector= Peak
   Trace mode= Max hold.
   Sweep- auto couple.
4. Mark the peak frequency and –20dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

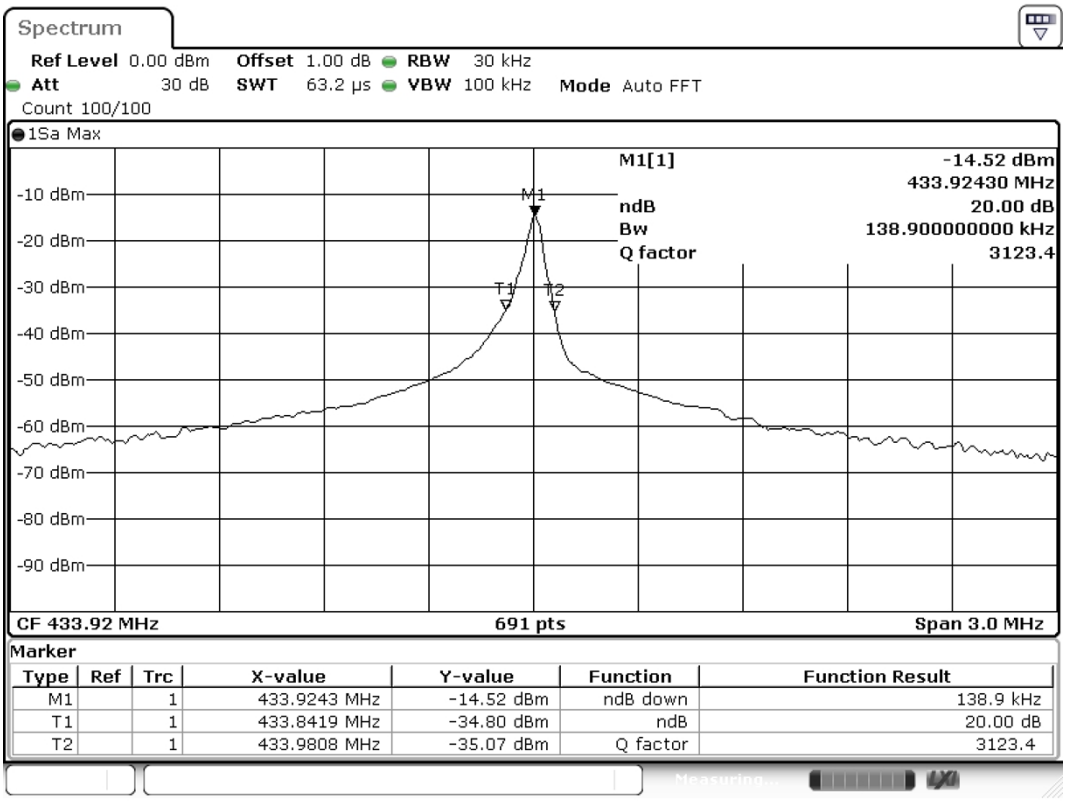
5.4. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa

Mode	Freq. (MHz)	20dB Bandwidth (kHz)	Limit (kHz)	Results
TX Mode	433.92	138.9	≤1084.8	PASS

Note: Limit=0.0025*Freq.

20dB Bandwidth

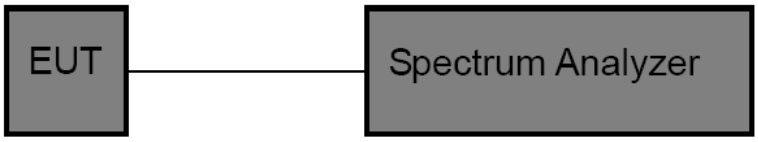


6. Dwell Time Test

6.1. Test Standard and Limit

Test Standard	FCC Part 15.231(a)
Test Limit	According to FCC Part 15.231(a)(1), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

6.2. Test Setup



6.3. Test Procedure

1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

2. Set the spectrum analyzer as

   RBW= 1MHz
   VBW= 1MHz
   Span= 0Hz
   Sweep Time= 30 Seconds.

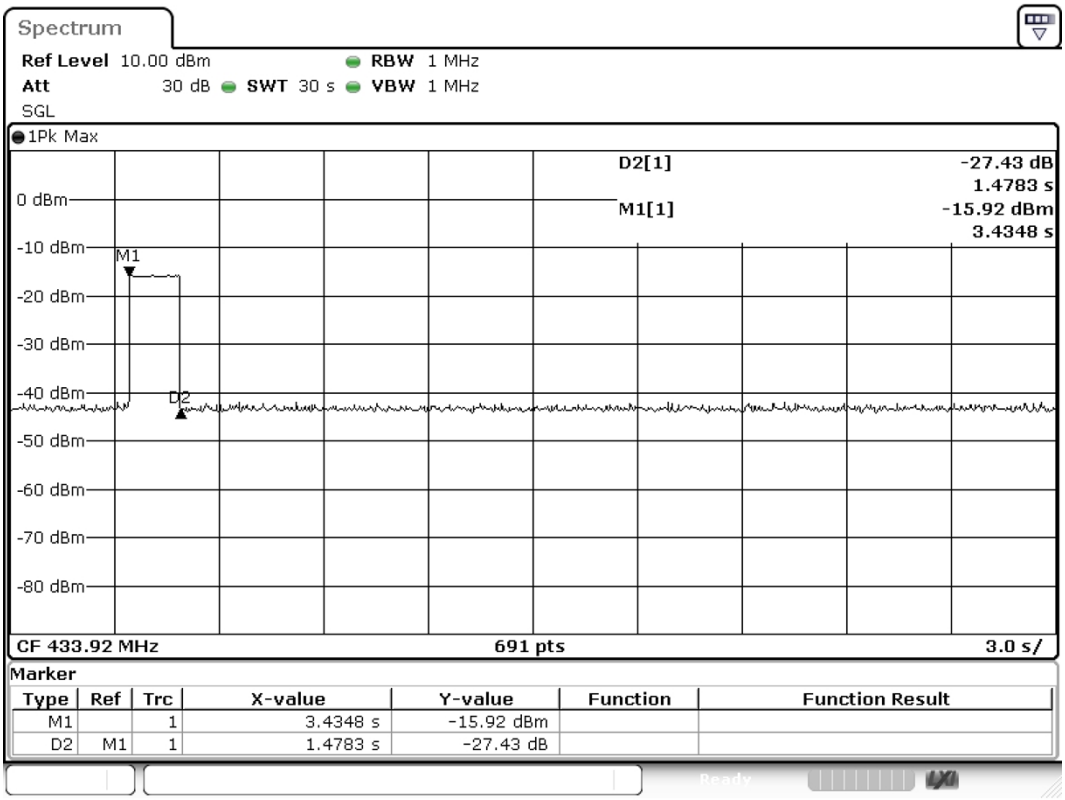
3. Record the Delta mark time.

6.4. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa

Mode	Freq. (MHz)	Transmitting time(s)	Limit(s)	Results
TX Mode	433.92	1.478	≤5	PASS

433.92 MHz



7. Antenna Requirement

7.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	1) 15.203 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, 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.

7.2. Antenna Connected Construction

The antenna is a Ceramic antenna which permanently attached. It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

---------- End of Report ----------

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