

Test Report

Report No. : MTi260331016-0301E1

Date of issue : 2026-04-29

Applicant : Guangdong Yozewit Intelligent Technology
Co.,Ltd

Product : Handheld button transmitter

Model(s) : YZ11002, YZ11002-01, YZ11002-02, YZ11002-05,
YZ11012, YZ11012-01, YZ11012-02, YZ11012-05,
HC-PM05, HC-PM05-T1, HC-PM05-T2, HC-PM05-
T5, YZ11013, YZ11013-01, YZ11013-02, YZ11013-05,
YZ11014, YZ11014-01, YZ11014-02, YZ11014-05,
YZ11015, YZ11015-01, YZ11015-02, YZ11015-05,
YZ11016, YZ11016-01, YZ11016-02, YZ11016-05,
YZ11005, YZ11005-01, YZ11005-02, YZ11005-05,
YZ11008, YZ11008-01, YZ11008-02, YZ11008-05

FCC ID : 2BVM511005

Shenzhen Microtest Co., Ltd.

TEST REPORT

Report No.: MTi260331016-0301E1

Table of contents

1	General Description	4
1.1	Description of the EUT	4
1.2	Description of test modes	4
1.3	Environmental Conditions	6
1.4	Description of support units	6
1.5	Measurement uncertainty	6
2	Summary of Test Result	7
3	Test Facilities and accreditations	8
3.1	Test laboratory	8
4	List of test equipment	9
5	Evaluation Results (Evaluation)	11
5.1	Antenna requirement	11
6	Radio Spectrum Matter Test Results (RF)	11
6.1	20dB Bandwidth	11
6.2	Transmit time	15
6.3	Duty Cycle	17
6.4	Field Strength of The Fundamental Signal	20
6.5	Radiated Emission (below 1GHz)	25
6.6	Radiated Emission (above 1GHz)	39
	Photographs of the test setup	47
	Photographs of the EUT	48

TEST REPORT

Report No.: MTi260331016-0301E1

Test Result Certification		
Applicant	Guangdong Yozewit Intelligent Technology Co.,Ltd	
Applicant Address	5/F, Bldg 4, 310 Songbai Rd, Liaobu, Dongguan, Guangdong, China	
Manufacturer	Guangdong Yozewit Intelligent Technology Co.,Ltd	
Manufacturer Address	5/F, Bldg 4, 310 Songbai Rd, Liaobu, Dongguan, Guangdong, China	
Factory	Guangdong Yozewit Intelligent Technology Co.,Ltd	
Factory Address	5/F, Bldg 4, 310 Songbai Rd, Liaobu, Dongguan, Guangdong, China	
Product description		
Product name	Handheld button transmitter	
Trademark	YOZEWIT	
Model name	YZ11002	
Series Model(s)	YZ11002-01, YZ11002-02, YZ11002-05, YZ11012, YZ11012-01, YZ11012-02, YZ11012-05, HC-PM05, HC-PM05-T1, HC-PM05-T2, HC-PM05-T5, YZ11013, YZ11013-01, YZ11013-02, YZ11013-05, YZ11014, YZ11014-01, YZ11014-02, YZ11014-05, YZ11015, YZ11015-01, YZ11015-02, YZ11015-05, YZ11016, YZ11016-01, YZ11016-02, YZ11016-05, YZ11005, YZ11005-01, YZ11005-02, YZ11005-05, YZ11008, YZ11008-01, YZ11008-02, YZ11008-05	
Standards	47 CFR Part 15.231	
Test Method	ANSI C63.10-2020+COR 1-2023	
Testing Information		
Date of test	2026-04-13 to 2026-04-29	
Test result	Pass	
Prepared by:	Letter Lan	<i>Letter. Lan.</i>
Reviewed by:	David Lee	<i>David. Lee</i>
Approved by:	Lewis Lian	<i>Lewis Lian</i>

TEST REPORT

Report No.: MTi260331016-0301E1

1 General Description

1.1 Description of the EUT

Product name:	Handheld button transmitter
Model name:	YZ11002
Series Model(s):	YZ11002-01, YZ11002-02, YZ11002-05, YZ11012, YZ11012-01, YZ11012-02, YZ11012-05, HC-PM05, HC-PM05-T1, HC-PM05-T2, HC-PM05-T5, YZ11013, YZ11013-01, YZ11013-02, YZ11013-05, YZ11014, YZ11014-01, YZ11014-02, YZ11014-05, YZ11015, YZ11015-01, YZ11015-02, YZ11015-05, YZ11016, YZ11016-01, YZ11016-02, YZ11016-05, YZ11005, YZ11005-01, YZ11005-02, YZ11005-05, YZ11008, YZ11008-01, YZ11008-02, YZ11008-05
Model difference:	All the models are the same circuit and module, except the model name and appearance (Metals and non-metals).
Electrical rating:	Input: 3.0VDC Battery: 3.0VDC 600mAh
Accessories:	N/A
Hardware version:	YZ11002-01/02/05-FSK v5.2
Software version:	V1.0
Test sample(s) number:	MTi260331016-03-R001
RF specification	
Operating frequency range:	433.92MHz, 868.35MHz, 915MHz
Channel number:	3
Modulation type:	433.92MHz, ASK, 868.35MHz, 915MHz: FSK
Antenna(s) type:	PCB
Antenna(s) gain:	2dBi

1.2 Description of test modes

No.	Emission test modes
Mode1	TX-433.92MHz
Mode2	TX-868.35MHz
Mode3	TX-915MHz

1.2.1 Operation channel list

Channel	Frequency (MHz)
0	433.92
1	868.35
2	915

TEST REPORT

Report No.: MTi260331016-0301E1

Test Channel List**Operation Band: 1**

Bandwidth (MHz)	Channel (MHz)
433.92	433.92
868.35	868.35
915	915

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Test Software: Key

For power setting, refer to below table.

Mode	TX
433.92MHz	DEF
868.35 MHz	DEF
915 MHz	DEF

TEST REPORT

Report No.: MTi260331016-0301E1

1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

Support equipment list

Description	Model	Serial No.	Manufacturer
/	/	/	/

Support cable list

Description	Length (m)	From	To
/	/	/	/

1.5 Measurement uncertainty

Measurement	Uncertainty
Occupied channel bandwidth	±3 %
Time	±1 %
Radiated spurious emissions (30MHz~1GHz)	±4.7dB
Radiated spurious emissions (9kHz~30MHz)	±4.3dB
Radiated spurious emissions (above 1GHz)	±5.3dB
Temperature	±1 °C
Humidity	± 5 %

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

TEST REPORT

Report No.: MTi260331016-0301E1

2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15.231	47 CFR 15.203	Pass
2	20dB Bandwidth	47 CFR Part 15.231	47 CFR 15.231(c)	Pass
3	Transmit time.	47 CFR Part 15.231	47 CFR 15.231(a)(1) & (a)(2)	Pass
4	Duty Cycle	47 CFR Part 15.231	47 CFR 15.231(b) & (e)	Pass
5	Field Strength of The Fundamental Signal	47 CFR Part 15.231	47 CFR 15.231(b)	Pass
6	Radiated Emission (below 1GHz)	47 CFR Part 15.231	47 CFR 15.231	Pass
7	Radiated Emission (above 1GHz)	47 CFR Part 15.231	47 CFR 15.231	Pass

TEST REPORT

Report No.: MTi260331016-0301E1

3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093

TEST REPORT

Report No.: MTi260331016-0301E1

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
20dB Bandwidth Dwell Time Duty Cycle						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2026-03-09	2027-03-08
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2026-03-09	2027-03-08
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2026-03-10	2027-03-09
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2026-03-10	2027-03-09
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2026-03-09	2027-03-08
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2026-03-11	2027-03-10
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2026-03-11	2027-03-10
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2026-03-10	2027-03-09
9	DC Power Supply	Agilent	E3632A	MY40027695	2026-03-09	2027-03-08
10	RF Test System	Tonscend	JS1120-3 Test System Ver. V3.5.39	/	/	/
Field Strength of The Fundamental Signal Radiated Emission (below 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESC17	101166	2026-03-10	2027-03-09
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2025-05-23	2027-05-22
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2026-03-08	2028-03-07
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2026-03-10	2027-03-09
5	EMI Measurement Software	Farad	EZ-EMC Ver.EMEC-3A1	/	/	/
Radiated Emission (above 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESC17	101166	2026-03-10	2027-03-09
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2025-05-27	2027-05-26
3	Amplifier	Agilent	8449B	3008A01120	2026-03-10	2027-03-09
4	MXA signal analyzer	Agilent	N9020A	MY54440859	2026-03-10	2027-03-09
5	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2026-03-10	2027-03-09

TEST REPORT

Report No.: MTi260331016-0301E1

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
6	Horn antenna	Schwarzbeck	BBHA 9170	00987	2025-05-27	2027-05-26
7	Pre-amplifier	Space-Dtronics	EWLAN18 40G	210405001	2026-03-11	2027-03-10
8	EMI Measurement Software	Farad	EZ-EMC Ver.EMEC- 3A1	/	/	/

TEST REPORT

Report No.: MTi260331016-0301E1

5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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.
-------------------	---

6 Radio Spectrum Matter Test Results (RF)

6.1 20dB Bandwidth

Test Requirement:	47 CFR 15.231(c)
Test Limit:	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.
Test Method:	ANSI C63.10-2020+COR 1-2023, section 6.9.2
Procedure:	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - \text{xx}]$.

TEST REPORT

Report No.: MTi260331016-0301E1

	Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “íxx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “íxx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
--	---

6.1.1 E.U.T. Operation:

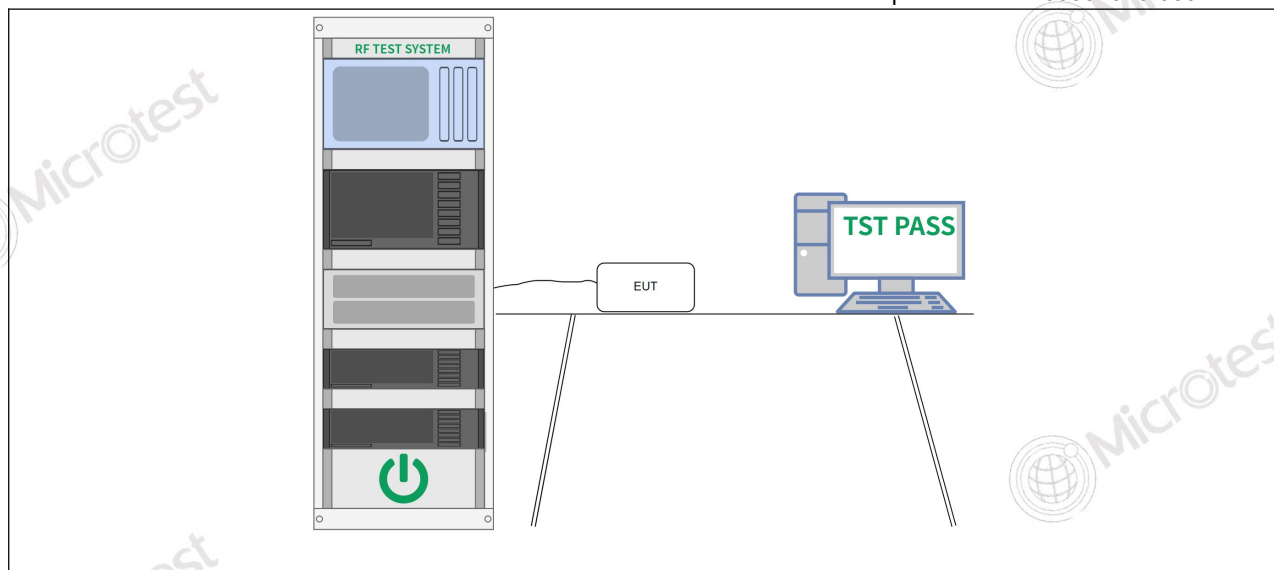
Operating Environment:					
Temperature:	19.9 °C	Humidity:	51.2 %	Atmospheric Pressure:	99.6 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

6.1.2 Test Setup Diagram:

--

TEST REPORT

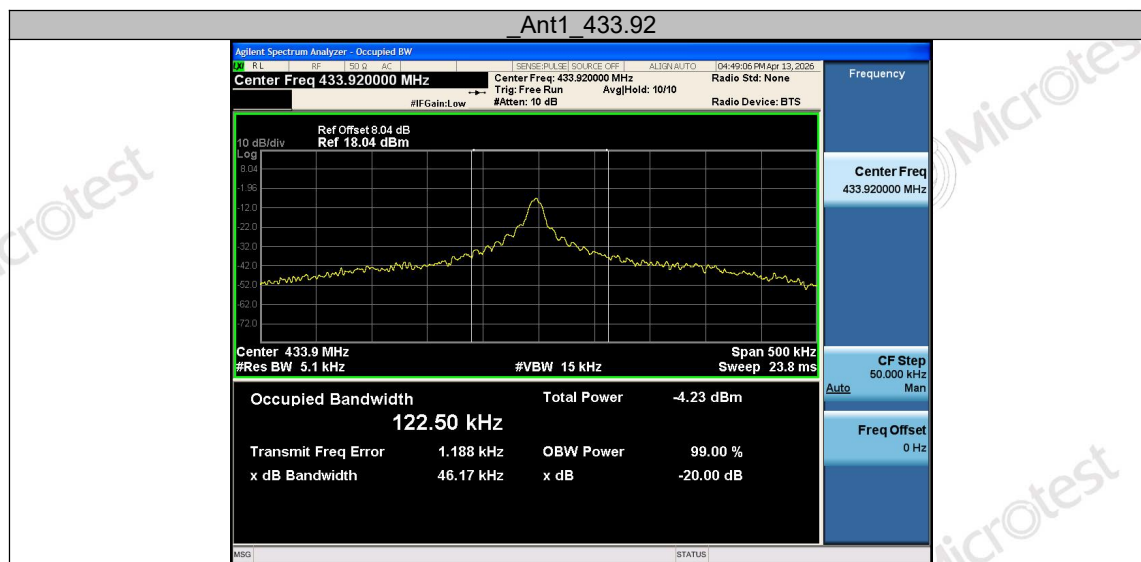
Report No.: MTi260331016-0301E1



6.1.3 Test Data:

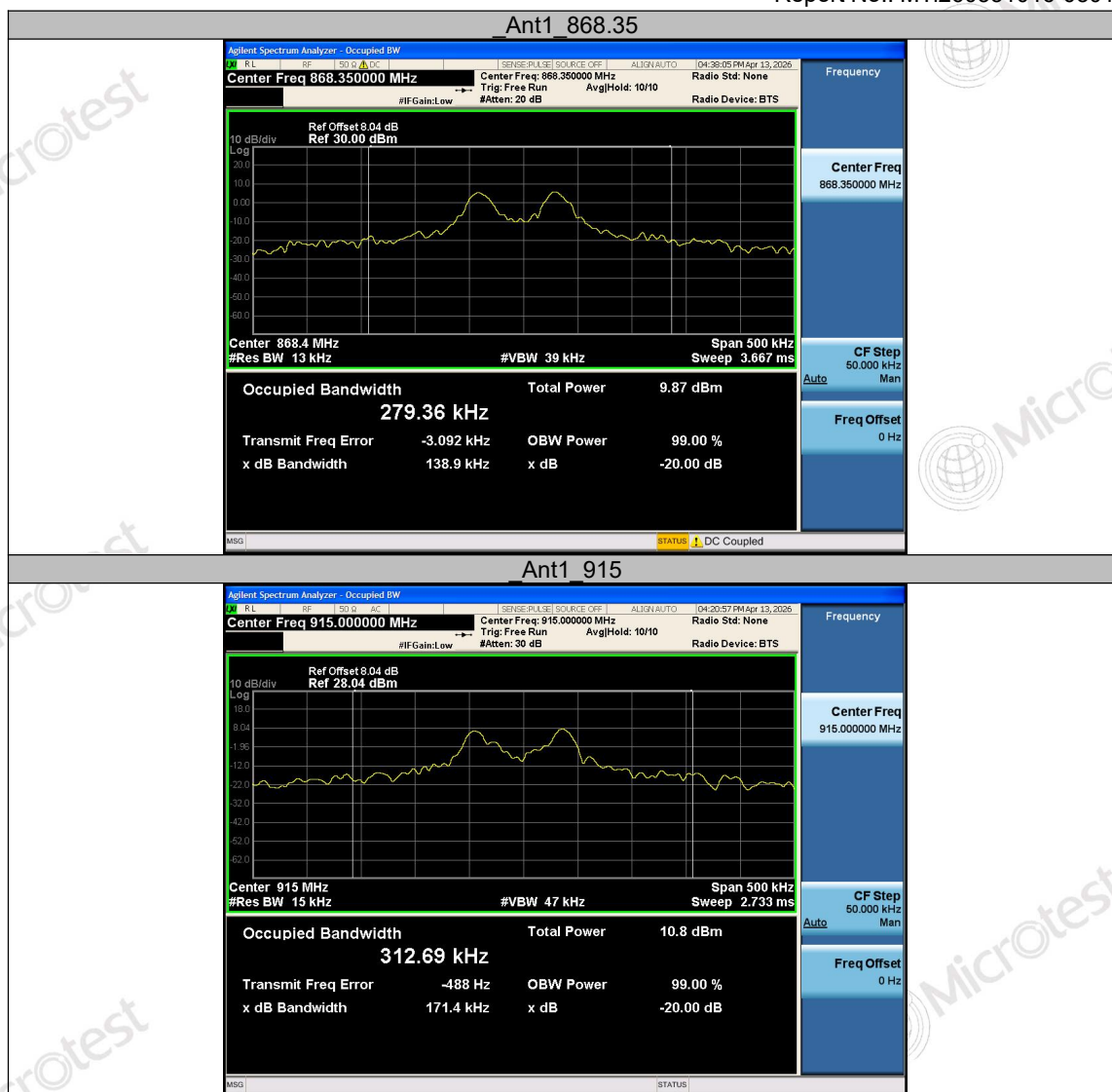
Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	Limit [MHz]	Verdict
/	Ant1	433.92	0.046	1.08	PASS
/	Ant1	868.35	0.138	2.17	PASS
/	Ant1	915	0.171	4.575	PASS

Test Graphs



TEST REPORT

Report No.: MTi260331016-0301E1



TEST REPORT

Report No.: MTi260331016-0301E1

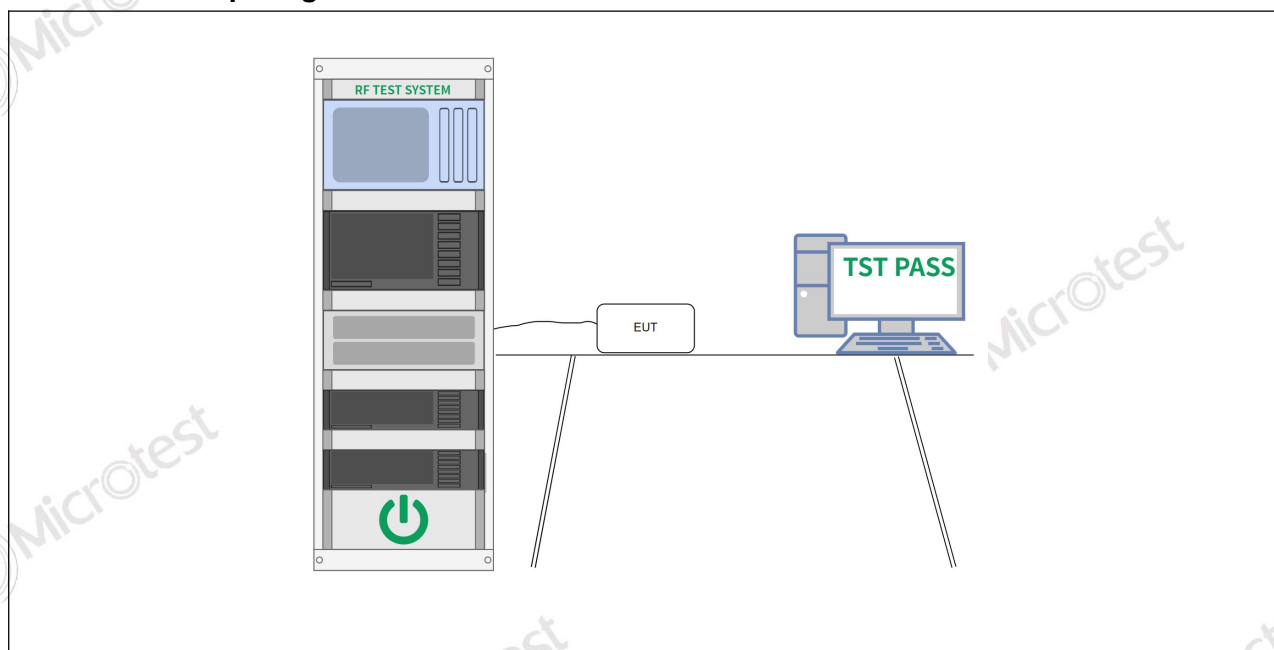
6.2 Transmit time.

Test Requirement:	47 CFR 15.231(a)(1) & (a)(2)
Test Limit:	(1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released. (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.
Test Method:	ANSI C63.10-2020+COR 1-2023, Section 7.4
Procedure:	For evaluation of periodic operation characteristics, the following procedure may be used: a) Trigger the spectrum analyzer sweep on the RF waveform of the unlicensed wireless device. b) Set the spectrum analyzer sweep time greater than the specified time for periodic operation. c) Manually activate and deactivate the unlicensed wireless device and confirm that it ceases transmission within the specified time of deactivation. d) Document the test results. e) Verify and document that periodic transmissions at regular predetermined intervals do not exist, except where regulatory requirements allow polling or supervision transmissions, including data, to determine system integrity. Compliance is addressed by an attestation supported by the equipment theory of operation.

6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	15.4 °C	Humidity:	55.6 %	Atmospheric Pressure:	99.6 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

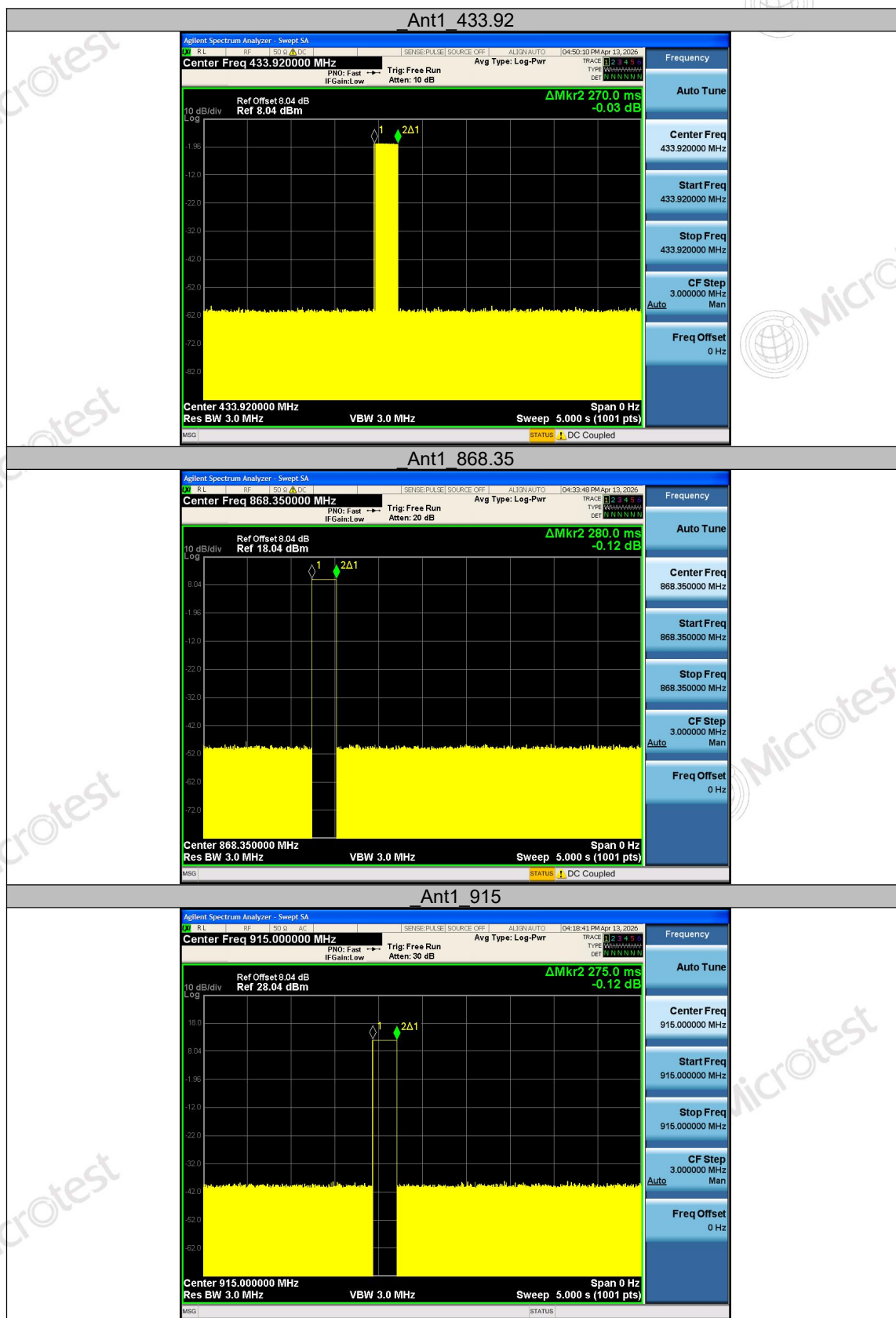
6.2.2 Test Setup Diagram:



TEST REPORT

Report No.: MTi260331016-0301E1

6.2.3 Test Data:



Result: Pass, the EUT had automatically deactivated transmission within 5 seconds.

TEST REPORT

Report No.: MTi260331016-0301E1

6.3 Duty Cycle

Test Requirement:	47 CFR 15.231(b) & (e)
Test Limit:	No limit, only for Report Use.
Test Method:	ANSI C63.10-2020+COR 1-2023, Section 7.5
Procedure:	a) Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the “worst-case” pulse ON time. b) Couple the final radio frequency output signal to the input of a spectrum analyzer. This may be performed by a radiated, direct connection (i.e., conducted) or by a “near-field” coupling method. The signal received shall be of sufficient level to trigger adequately the spectrum analyzer sweep display. NOTE—If the bandwidth of the pulse is greater than the RBW of the spectrum analyzer, then a similar measurement may be performed using a wideband digital storage oscilloscope (DSO). c) Adjust the center frequency of the spectrum analyzer to the center of the RF signal. d) Set the spectrum analyzer for ZERO SPAN. e) Adjust the SWEEP TIME to obtain at least a 100 ms period of time on the horizontal display axis of the spectrum analyzer. f) If the pulse train is periodic (i.e., consists of a series of pulses that repeat in a characteristic pattern over a constant time period), and the period (T) is less than or equal to 100 ms, then: 1) Set the TRIGGER on the spectrum analyzer to capture at least one period of the pulse train, including any blanking intervals. 2) Determine the total maximum pulse “ON time” (t_{ON}) over one period of the pulse train. An example of a periodic pulse train and the associated period is shown in Figure 14. If the pulse train contains pulses of different widths, then t_{ON} is determined by summing the duration of all of the pulses within the pulse train [i.e., $t_{ON} = \Sigma(t_1 + t_2 + \dots t_n)$]. 3) The duty cycle is then determined by dividing the total maximum “ON time” by the period of the pulse train (t_{ON}/T). g) If the pulse train is nonperiodic or is periodic with a period that exceeds 100 ms, or as an alternative to step f), then: 1) Set the TRIGGER on the spectrum analyzer to capture the greatest amount of pulse “ON time” over 100 ms. 2) Find the 100 ms period that contains the maximum “on time”; this may require summing the duration of multiple pulses as described in step f2). 3) Determine the duty cycle by dividing the total maximum “ON time” by 100 ms ($t_{ON}/100\text{ ms}$).

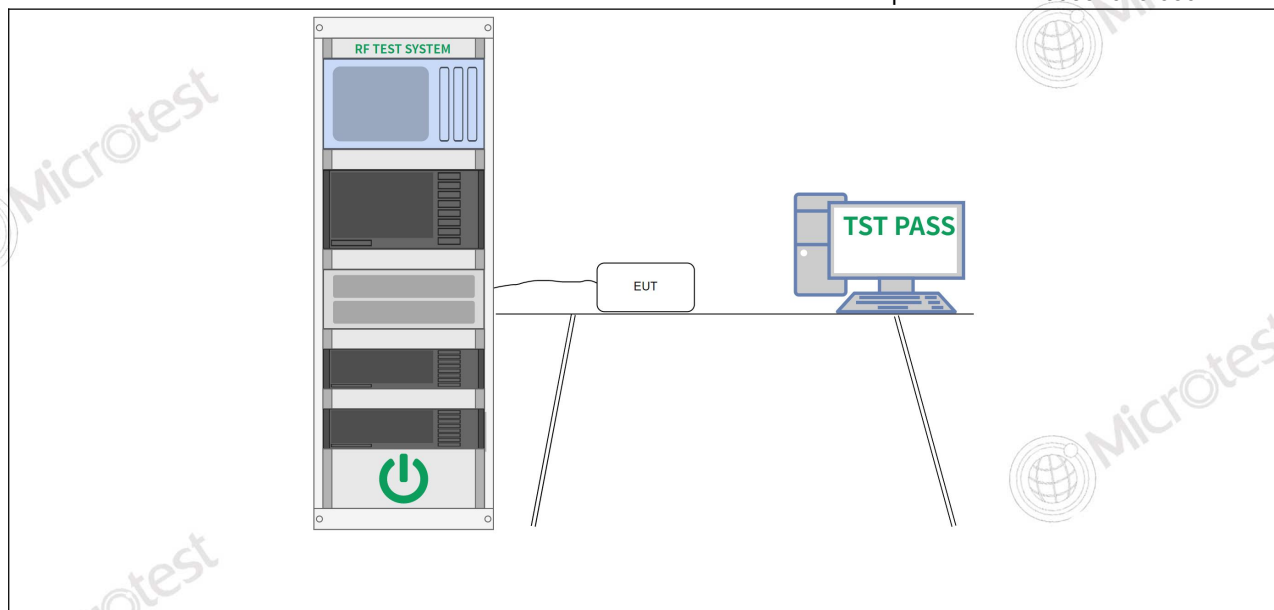
6.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	21.6 °C	Humidity:	42.9 %	Atmospheric Pressure:	99.6 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

6.3.2 Test Setup Diagram:

TEST REPORT

Report No.: MTi260331016-0301E1



6.3.3 Test Data:

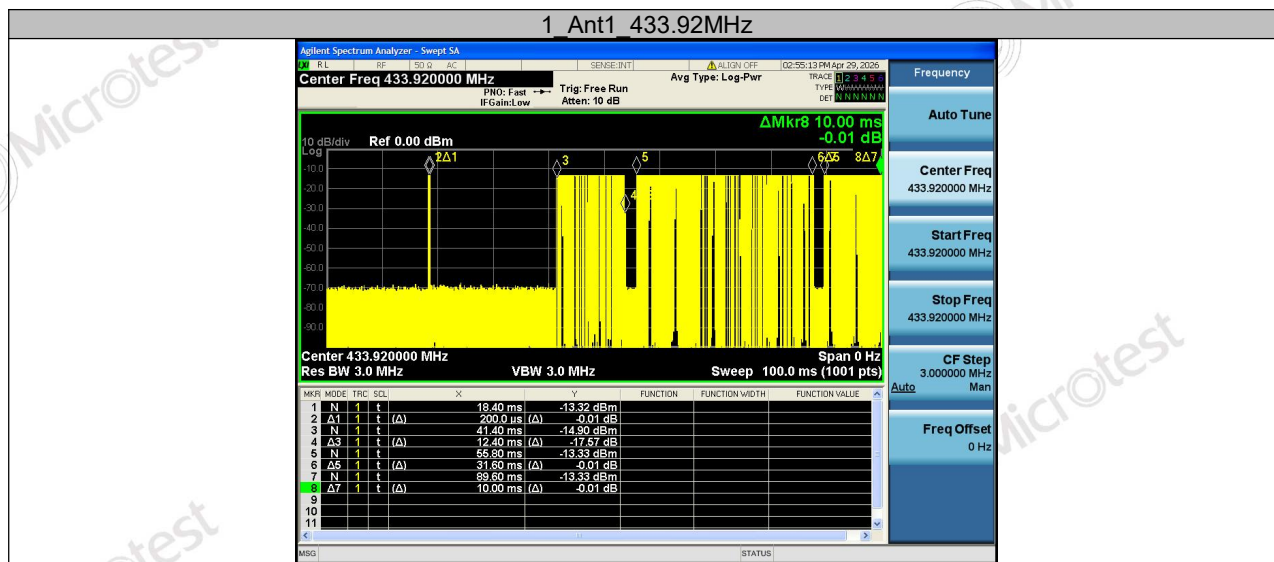
Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
/	Ant1	433.92	/	100	100%	0.00
/	Ant1	868.35	83.4	100	83.4%	-1.58
/	Ant1	915	90.9	100	90.9%	-0.83

Notes:

Duty Cycle [%] = Transmission Duration [ms] / Transmission Period [ms] * 100

Factor = 20 * log (Duty Cycle)

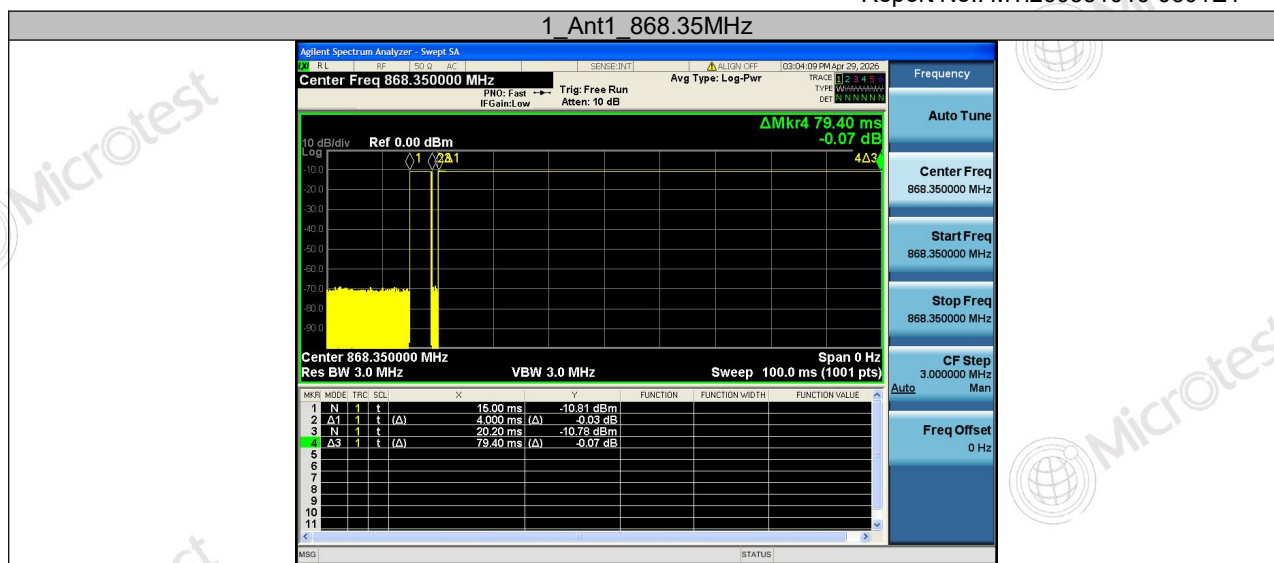
Test Graphs



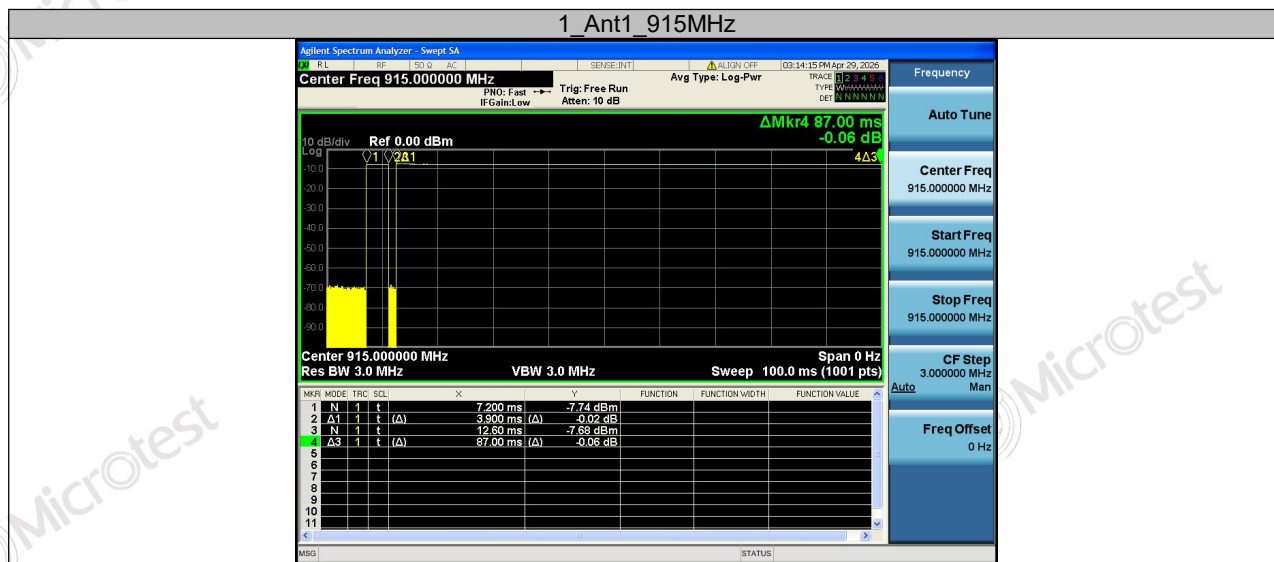
Note: Because the single-shot firing time and the interval time are too closely spaced, it is impossible to accurately capture the firing time. Therefore, the calculation is based on the worst-case scenario of 100%.

TEST REPORT

Report No.: MTi260331016-0301E1



TransmissionDuration[ms]= 4+79.4=83.4



TransmissionDuration[ms]= 3.9+87= 90.9

TEST REPORT

Report No.: MTi260331016-0301E1

6.4 Field Strength of The Fundamental Signal

Test Requirement:	47 CFR 15.231(b)		
Test Limit:	Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
	40.66-40.70	2,250	225
	70-130	1,250	125
	130-174	¹ 1,250 to 3,750	¹ 125 to 375
	174-260	3,750	375
	260-470	¹ 3,750 to 12,500	¹ 375 to 1,250
	Above 470	12,500	1,250
	¹ Linear interpolations.		
(1) The above field strength limits are specified at a distance of 3 meters. The tighter limits apply at the band edges.			
Test Method:	ANSI C63.10-2020+COR 1-2023, Section 6.5		
Procedure:	Below 1GHz: a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. 3. The disturbance below 1GHz was very low and the harmonics were the		

TEST REPORT

Report No.: MTi260331016-0301E1

	highest point could be found when testing, so only the above harmonics had been displayed. Above 1GHz: - For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet. - Test the EUT in the lowest channel, the middle channel, the Highest channel. - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. - Repeat above procedures until all frequencies measured was complete. Remark: - Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor - Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. - As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report. - The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
--	---

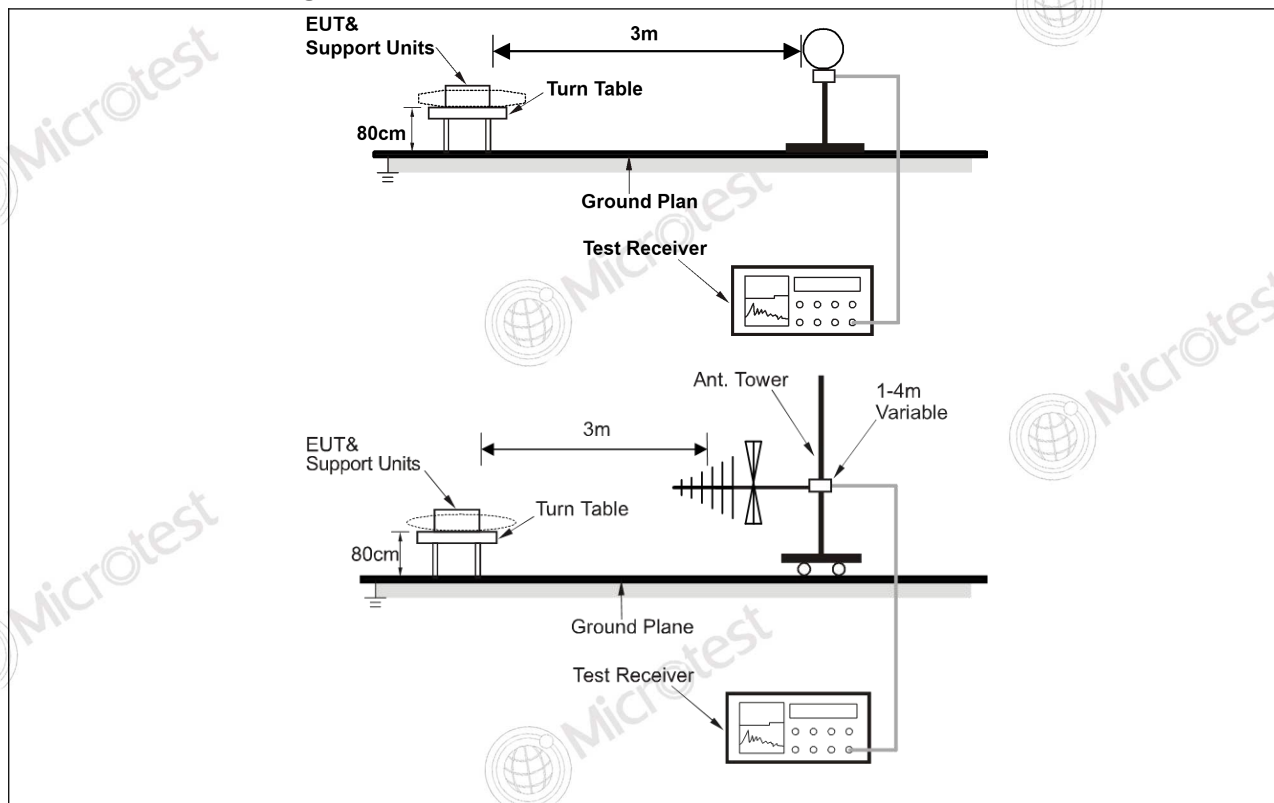
6.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

TEST REPORT

Report No.: MTi260331016-0301E1

6.4.2 Test Setup Diagram:



TEST REPORT

Report No.: MTi260331016-0301E1

6.4.3 Test Data:

Model: YZ11002

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
433.9200	Horizontal	41.35	0	41.35	80.82

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
433.9200	Vertical	39.04	0	39.04	80.82

Note1: Duty Factor = $20 * \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor(0dB)

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
868.3500	Horizontal	66.45	-1.58	64.87	81.94

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
868.3500	Vertical	58.28	-1.58	56.7	81.94

Note1: Duty Factor = $20 * \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor(-1.58dB)

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
915.0000	Horizontal	75.97	-0.83	75.14	81.94

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
915.0000	Vertical	62.06	-0.83	61.23	81.94

Note1: Duty Factor = $20 * \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor(-0.83dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Model: HC-PM05

Freq(MHz)	Horizontal	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
433.92	Horizontal	54.3	0	54.3	80.82

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
433.92	Vertical	35.4	0	35.4	80.82

Note1: Duty Factor = $20 * \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor 0dB

Freq(MHz)	Horizontal	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
868.35	Horizontal	68	-1.58	66.42	81.94

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
868.35	Vertical	62.1	-1.58	60.52	81.94

Note1: Duty Factor = $20 * \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor(-1.58dB)

Freq(MHz)	Horizontal	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
915	Horizontal	77.55	-0.83	76.72	81.94

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
915	Vertical	64.71	-0.83	63.88	81.94

Note1: Duty Factor = $20 * \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor(-0.83dB)

TEST REPORT

Report No.: MTi260331016-0301E1

6.5 Radiated Emission (below 1GHz)

Test Requirement:	47 CFR 15.231		
Test Limit:	Frequency (MHz)	Field strength (microvolts/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
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.		
Test Method:	ANSI C63.10-2020+COR 1-2023, Section 6.5		
Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when		

TEST REPORT

Report No.: MTi260331016-0301E1

testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

6.5.1 E.U.T. Operation:

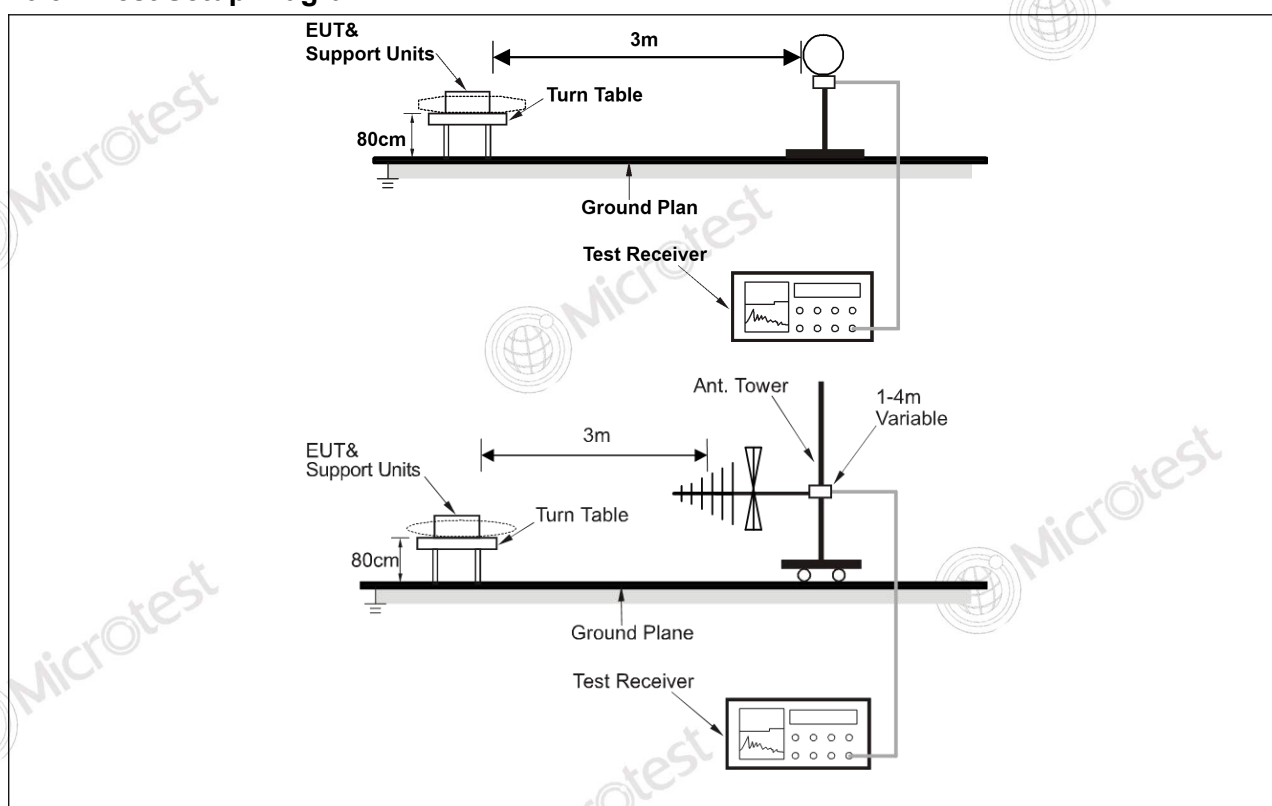
Operating Environment:

Temperature:	23 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
--------------	-------	-----------	------	-----------------------	---------

Pre test mode:	Mode1, Mode2, Mode3
----------------	---------------------

Final test mode:	Mode1, Mode2, Mode3
------------------	---------------------

6.5.2 Test Setup Diagram:



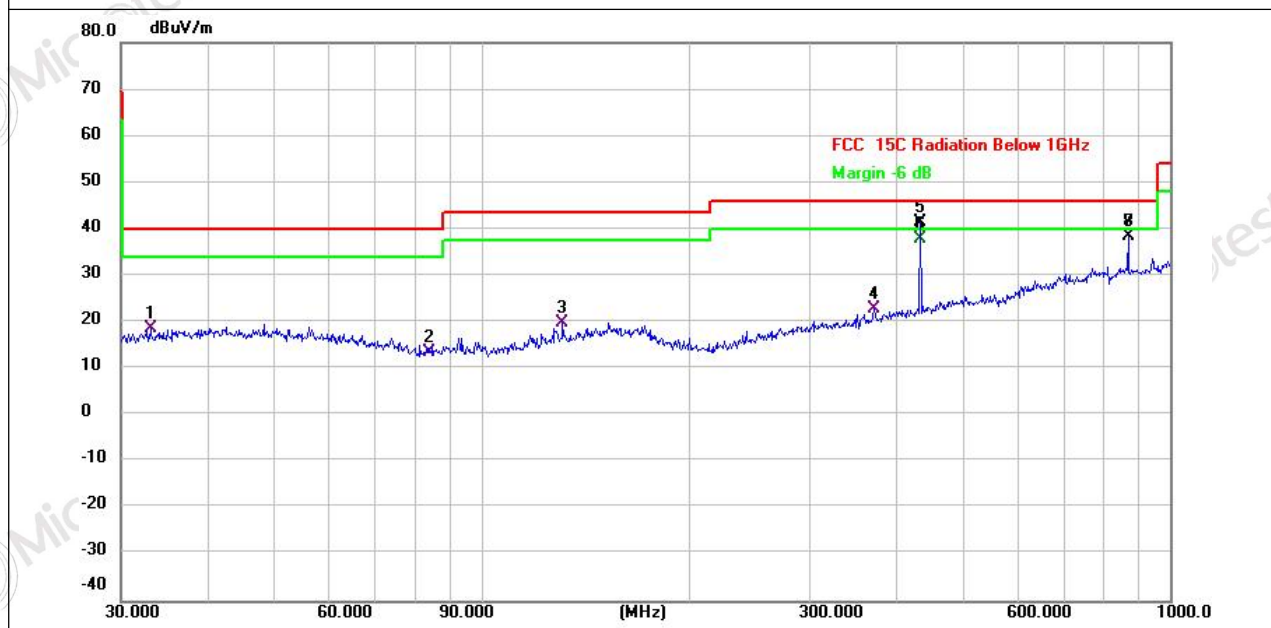
TEST REPORT

Report No.: MTi260331016-0301E1

6.5.3 Test Data:

Model: YZ11002

Mode1 / Polarization: Horizontal



Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
H	33.0950	27.84	-9.12	18.72	40.00	-21.28	QP
H	84.0000	26.40	-12.91	13.49	40.00	-26.51	QP
H	131.2965	28.81	-8.93	19.88	43.50	-23.62	QP
H	372.0045	28.16	-5.20	22.96	46.00	-23.04	QP
H	433.9200	45.05	-3.7	41.35	100.82	-59.47	peak
H	867.0000	33.89	4.70	38.59	80.82	-42.23	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
433.9200	Horizontal	41.35	0	41.35	80.82
867.8400	Horizontal	38.59	0	38.59	60.82

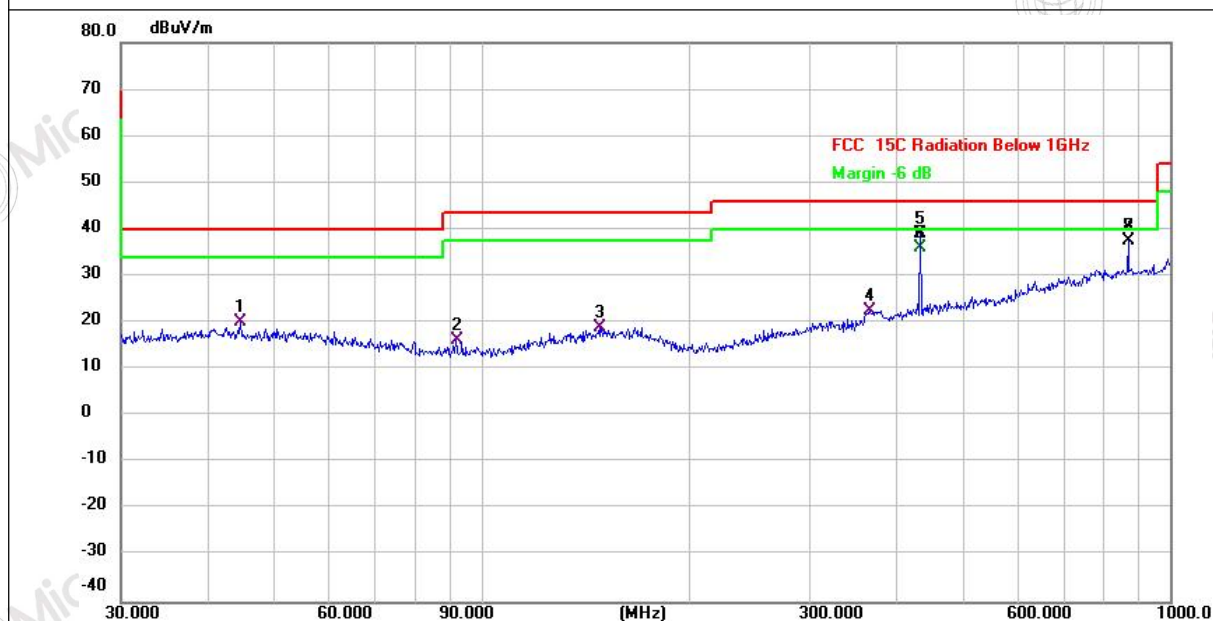
Note1: Duty Factor = 20 * log (Duty Cycle)

Note2: AVG Level= PEAK Level+ Duty Factor(0dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Mode1 / Polarization: Vertical



Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	44.7433	28.70	-8.51	20.19	40.00	-19.81	QP
V	91.8163	28.94	-12.77	16.17	43.50	-27.33	QP
V	148.4410	26.66	-7.67	18.99	43.50	-24.51	QP
V	366.8231	27.95	-5.29	22.66	46.00	-23.34	QP
V	433.9200	42.74	-3.7	39.04	100.82	-61.78	peak
V	867.8400	32.78	4.64	37.48	80.82	-43.34	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
433.9200	Vertical	39.04	0	39.04	80.82
867.8400	Vertical	37.48	0	37.48	60.82

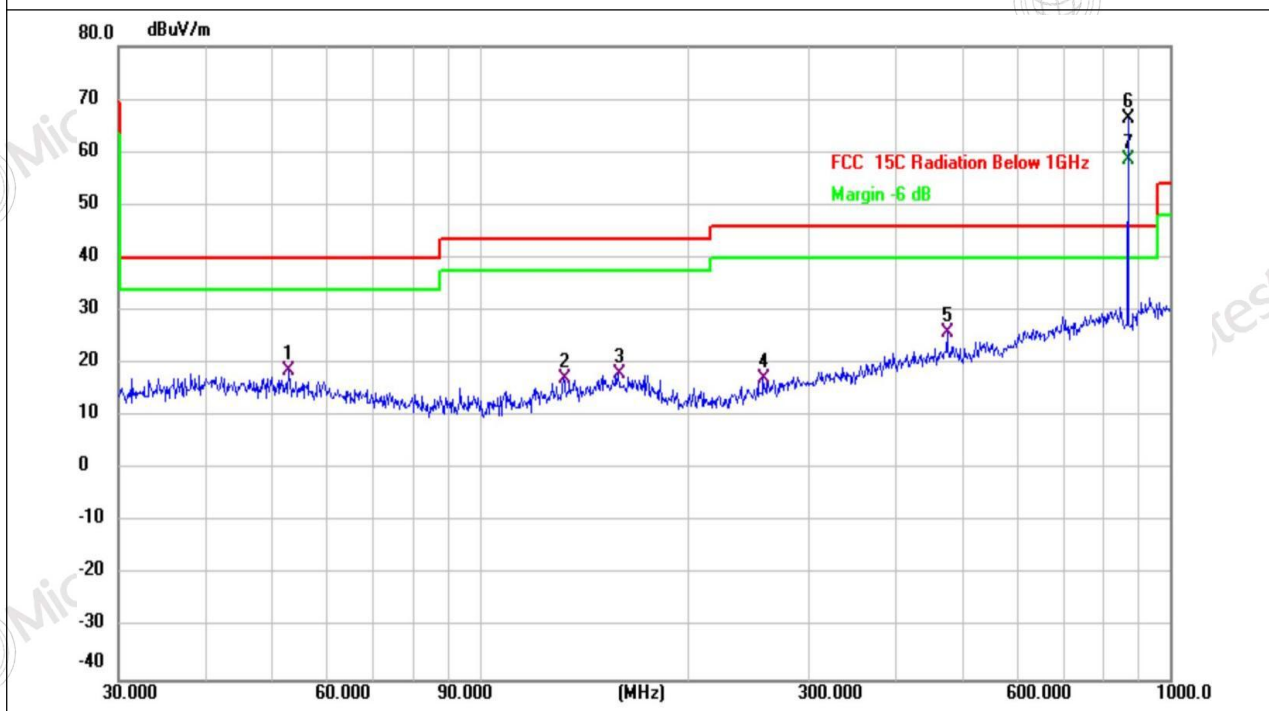
Note1: Duty Factor = $20 * \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor(0dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Mode2 / Polarization: Horizontal



Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
H	52.9453	27.42	-8.85	18.57	40.00	-21.43	QP
H	132.2206	26.03	-8.84	17.19	43.50	-26.31	QP
H	158.6677	25.55	-7.56	17.99	43.50	-25.51	QP
H	257.4222	25.45	-8.27	17.18	46.00	-28.82	QP
H	475.4991	28.97	-3.13	25.84	46.00	-20.16	QP
H	868.3500	61.78	4.67	66.45	101.94	-35.49	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
868.3500	Horizontal	66.45	-1.58	64.87	81.94

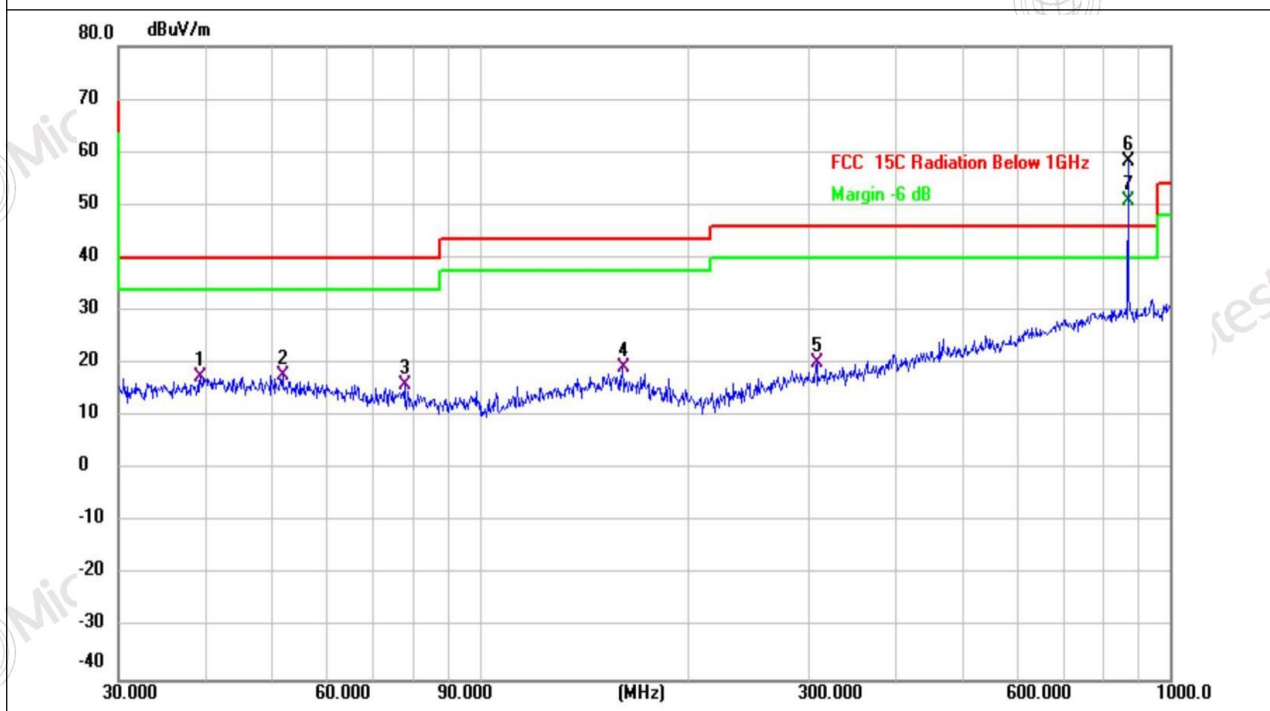
Note1: Duty Factor = $20 * \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor(-1.58dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Mode2 / Polarization: Vertical



Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	39.4371	25.80	-8.33	17.47	40.00	-22.53	QP
V	51.8430	26.74	-8.84	17.90	40.00	-22.10	QP
V	77.8654	27.98	-12.04	15.94	40.00	-24.06	QP
V	160.9089	27.05	-7.65	19.40	43.50	-24.10	QP
V	307.8313	26.49	-6.40	20.09	46.00	-25.91	QP
V	868.3500	53.61	4.67	58.28	101.94	-43.66	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
868.3500	Vertical	58.28	-1.58	56.7	81.94

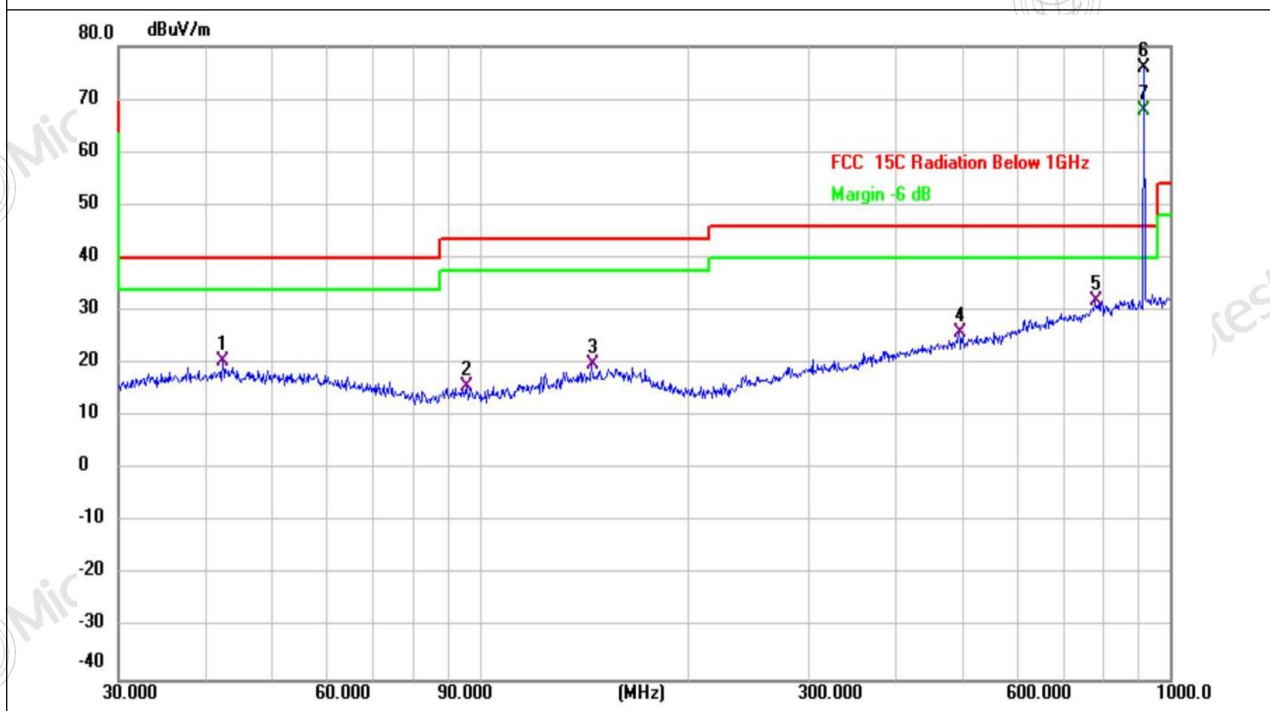
Note1: Duty Factor = 20 * log (Duty Cycle)

Note2: AVG Level= PEAK Level+ Duty Factor(-1.58dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Mode3 / Polarization: Horizontal



Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
H	42.4508	28.75	-8.40	20.35	40.00	-19.65	QP
H	95.7622	28.07	-12.30	15.77	43.50	-27.73	QP
H	145.3506	27.90	-8.00	19.90	43.50	-23.60	QP
H	494.1984	28.55	-2.78	25.77	46.00	-20.23	QP
H	779.6068	28.35	3.50	31.85	46.00	-14.15	QP
H	915.0000	70.92	5.05	75.97	101.94	-25.97	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
915.0000	Horizontal	75.97	-0.83	75.14	81.94

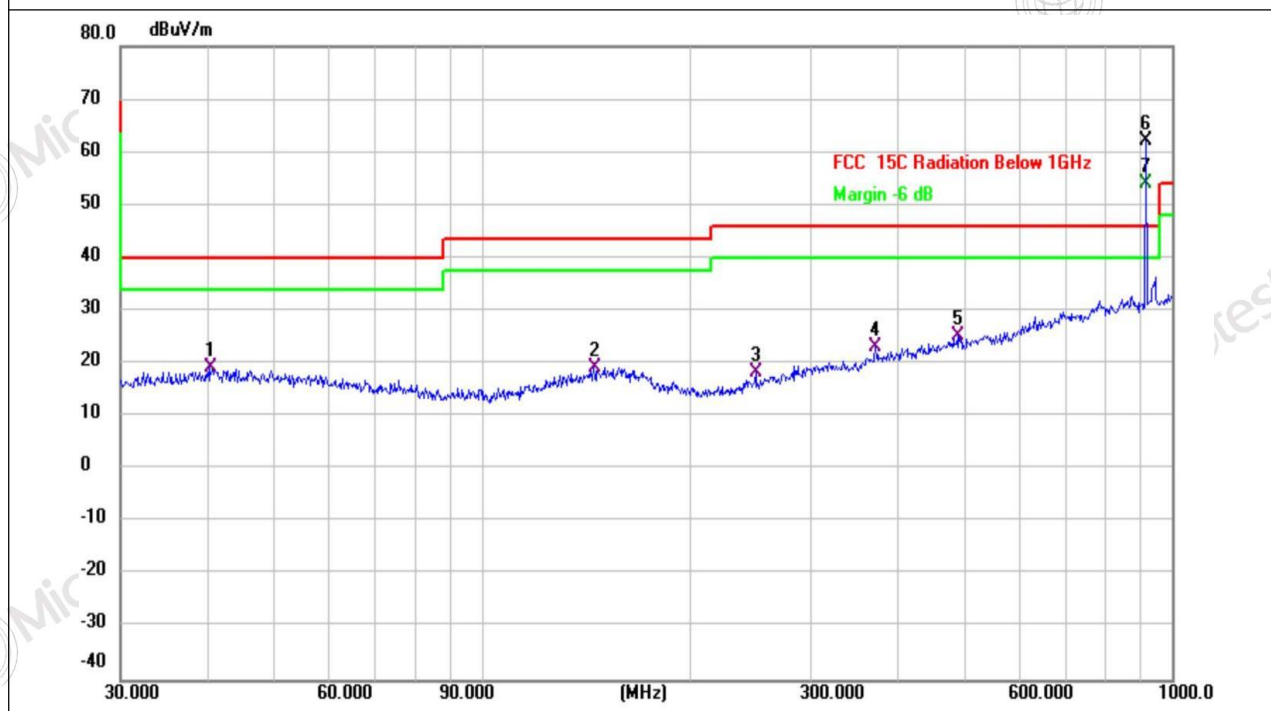
Note1: Duty Factor = 20 * log (Duty Cycle)

Note2: AVG Level= PEAK Level+ Duty Factor(-0.83dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Mode3 / Polarization: Vertical



Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	40.4172	27.54	-8.27	19.27	40.00	-20.73	QP
V	145.3506	27.28	-8.00	19.28	43.50	-24.22	QP
V	249.4250	27.30	-8.89	18.41	46.00	-27.59	QP
V	372.0045	28.21	-5.20	23.01	46.00	-22.99	QP
V	489.0269	28.24	-2.89	25.35	46.00	-20.65	QP
V	915.0000	57.01	5.05	62.06	101.94	-39.88	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
915.0000	Vertical	62.06	-0.83	61.23	81.94

Note1: Duty Factor = 20 * log (Duty Cycle)

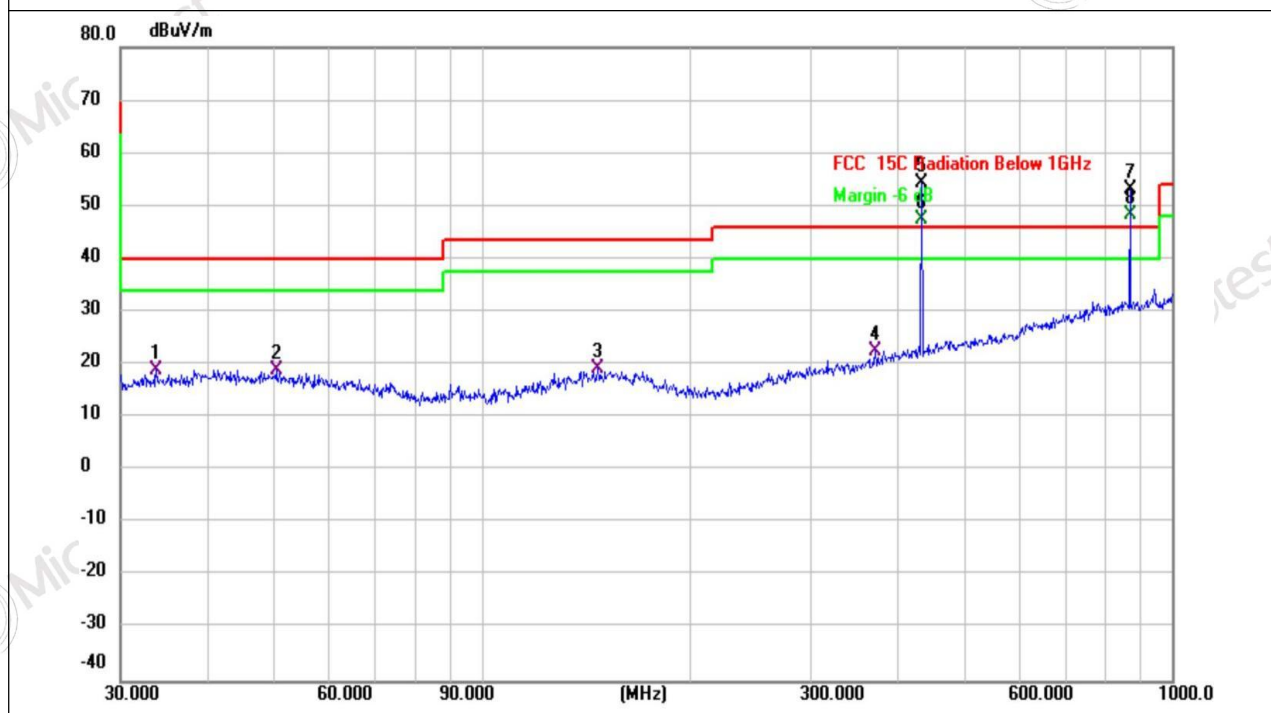
Note2: AVG Level= PEAK Level+ Duty Factor(-0.83dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Model: HC-PM05

Mode1 / Polarization: Horizontal



Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
H	33.7986	27.88	-9.04	18.84	40.00	-21.16	QP
H	50.4089	27.55	-8.73	18.82	40.00	-21.18	QP
H	147.4036	26.92	-7.78	19.14	43.50	-24.36	QP
H	372.0045	27.78	-5.20	22.58	46.00	-23.42	QP
H	433.9200	58	-3.7	54.3	100.82	-46.52	peak
H	867.8400	48.62	4.66	53.28	80.82	-27.54	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
433.9200	Horizontal	54.3	0	54.3	80.82
867.8400	Horizontal	53.28	0	53.28	60.82

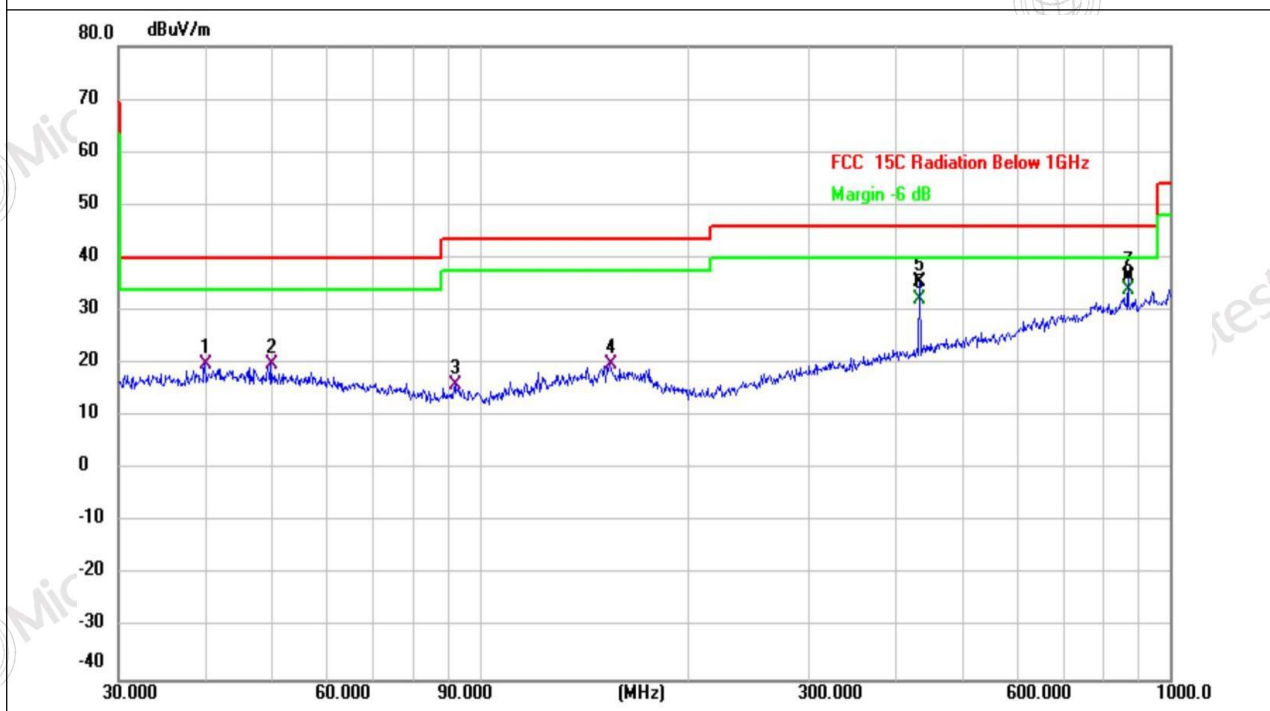
Note1: Duty Factor = 20 * log (Duty Cycle)

Note2: AVG Level= PEAK Level+ Duty Factor(0dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Mode1 / Polarization: Vertical



Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	39.9942	28.06	-8.27	19.79	40.00	-20.21	QP
V	49.8814	28.40	-8.69	19.71	40.00	-20.29	QP
V	92.1388	28.65	-12.70	15.95	43.50	-27.55	QP
V	154.2786	27.13	-7.31	19.82	43.50	-23.68	QP
V	433.9200	39.1	-3.7	35.4	100.82	-65.42	peak
V	867.8400	30.69	4.66	35.35	80.82	-44.47	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
433.9200	Vertical	35.4	0	35.4	80.82
867.8400	Vertical	35.35	0	35.35	60.82

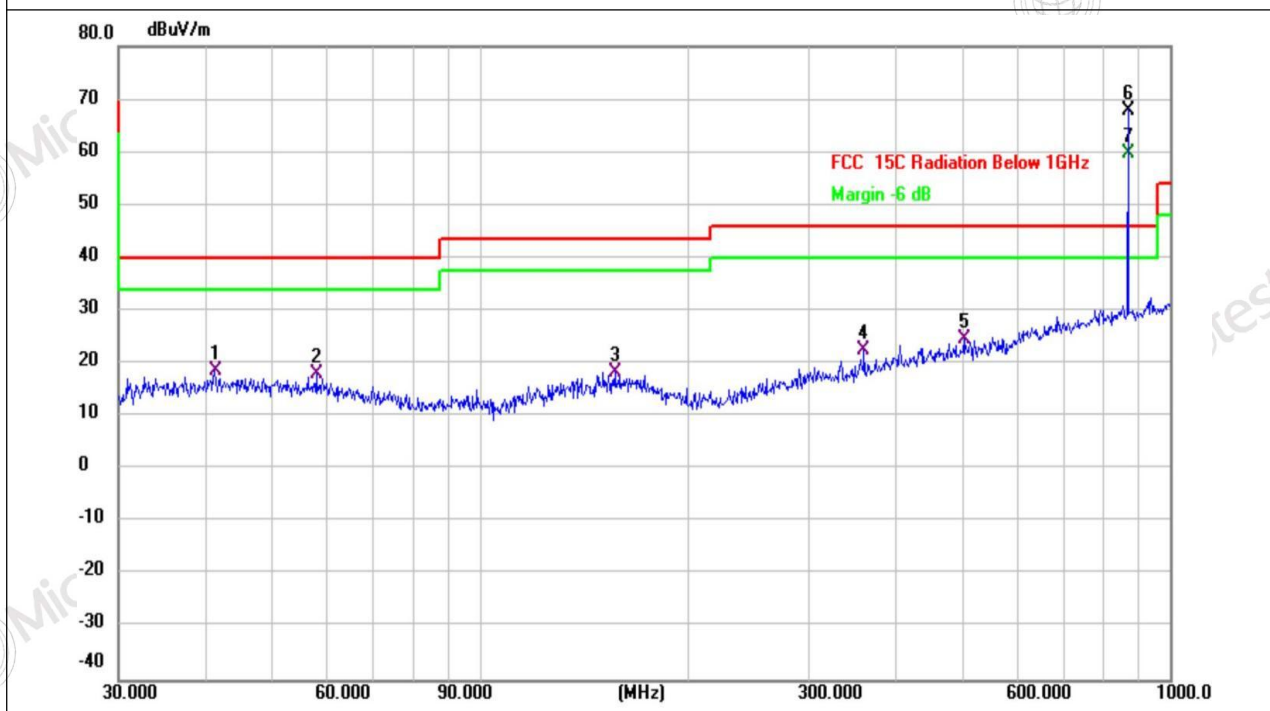
Note1: Duty Factor = 20 * log (Duty Cycle)

Note2: AVG Level= PEAK Level+ Duty Factor(0dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Mode2 / Polarization: Horizontal



Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
H	41.2765	27.04	-8.29	18.75	40.00	-21.25	QP
H	57.9993	27.39	-9.29	18.10	40.00	-21.90	QP
H	157.0074	25.87	-7.51	18.36	43.50	-25.14	QP
H	360.4476	27.82	-5.40	22.42	46.00	-23.58	QP
H	502.9395	27.42	-2.73	24.69	46.00	-21.31	QP
H	868.3500	63.33	4.67	68	101.94	-33.94	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
868.3500	Horizontal	68	-1.58	66.42	81.94

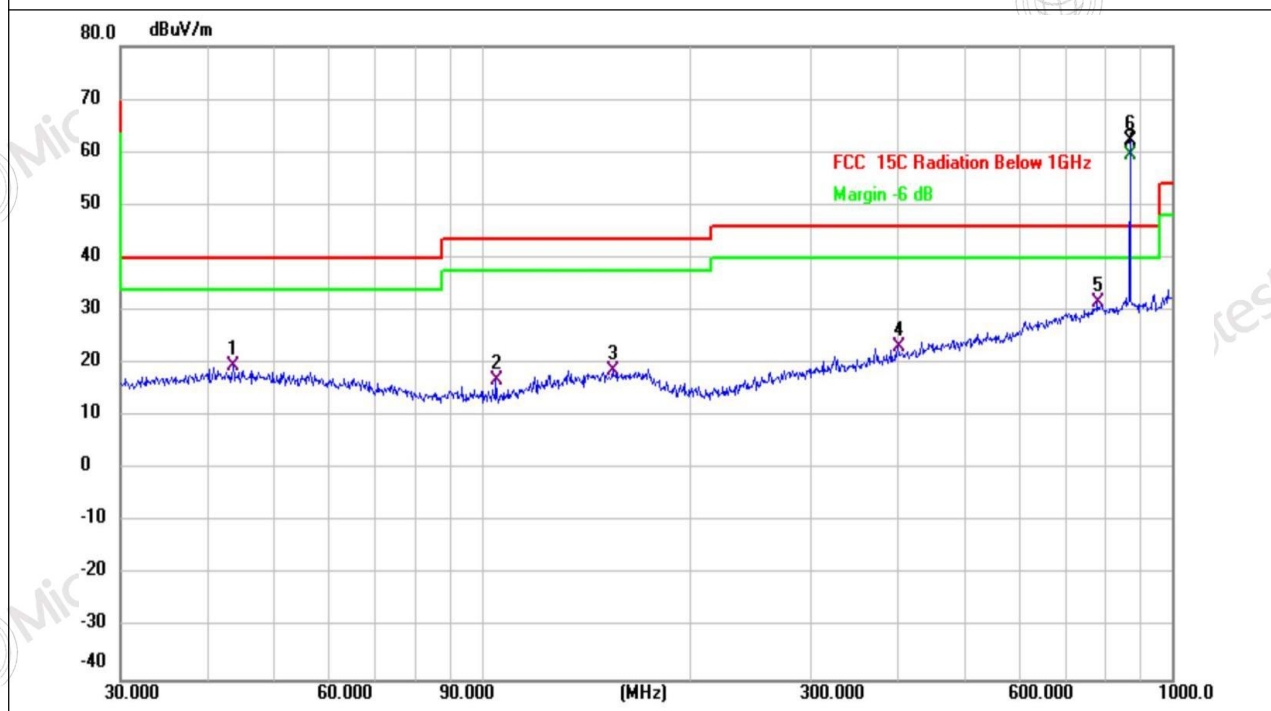
Note1: Duty Factor = $20 * \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor(-1.58dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Mode2 / Polarization: Vertical



Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	43.6584	27.99	-8.44	19.55	40.00	-20.45	QP
V	104.9033	28.60	-11.81	16.79	43.50	-26.71	QP
V	154.8204	26.00	-7.25	18.75	43.50	-24.75	QP
V	400.4319	27.90	-4.60	23.30	46.00	-22.70	QP
V	779.6068	28.09	3.50	31.59	46.00	-14.41	QP
V	868.3500	57.43	4.67	62.1	101.94	-39.84	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
868.3500	Vertical	62.1	-1.58	60.52	81.94

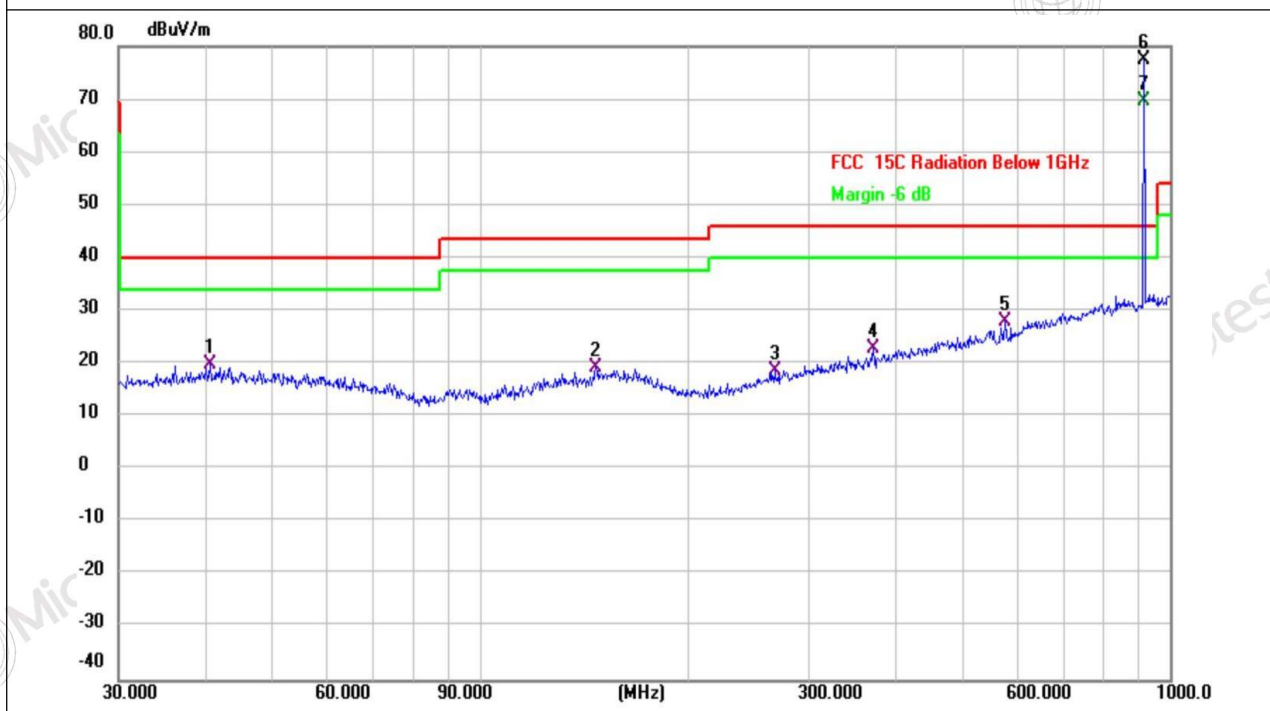
Note1: Duty Factor = 20 * log (Duty Cycle)

Note2: AVG Level= PEAK Level+ Duty Factor(-1.58dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Mode3 / Polarization: Horizontal



Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
H	40.7016	28.26	-8.27	19.99	40.00	-20.01	QP
H	147.4036	26.96	-7.78	19.18	40.00	-24.32	QP
H	267.5455	26.71	-7.95	18.76	43.50	-27.24	QP
H	372.0045	27.97	-5.20	22.77	46.00	-23.23	QP
H	576.6443	29.30	-1.44	27.86	46.00	-18.14	QP
H	915.0000	72.5	5.05	77.55	101.94	-24.39	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
915.0000	Horizontal	77.55	-0.83	76.72	81.94

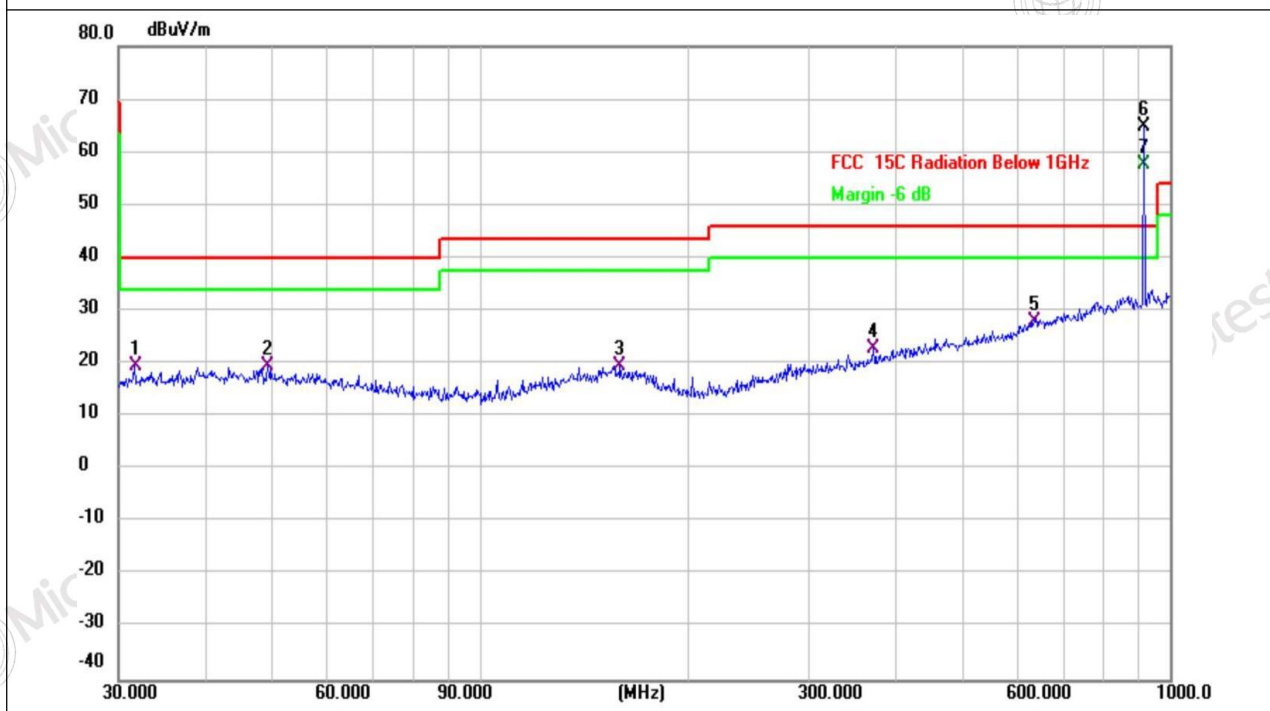
Note1: Duty Factor = $20 \cdot \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor(-0.83dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Mode3 / Polarization: Vertical



Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	31.6202	28.69	-9.28	19.41	40.00	-20.59	QP
V	49.3594	28.33	-8.69	19.64	40.00	-20.36	QP
V	159.7844	27.20	-7.58	19.62	43.50	-23.88	QP
V	372.0045	28.01	-5.20	22.81	46.00	-23.19	QP
V	636.1340	27.48	0.52	28.00	46.00	-18.00	QP
V	915.0000	59.66	5.05	64.71	101.94	-37.23	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
915.0000	Vertical	64.71	-0.83	63.88	81.94

Note1: Duty Factor = 20 * log (Duty Cycle)

Note2: AVG Level= PEAK Level+ Duty Factor(-0.83dB)

TEST REPORT

Report No.: MTi260331016-0301E1

6.6 Radiated Emission (above 1GHz)

Test Requirement:	47 CFR 15.231		
Test Limit:	Frequency (MHz)	Field strength (microvolts/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
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.		
Test Method:	ANSI C63.10-2020+COR 1-2023, Section 6.6		
Procedure:	a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete. Remark: 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found		

TEST REPORT

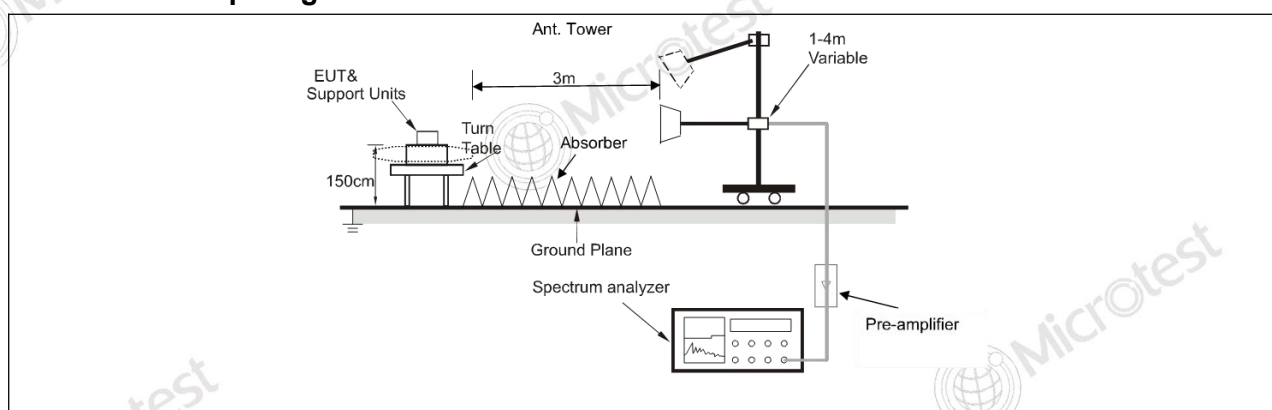
Report No.: MTi260331016-0301E1

	when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report. 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
--	---

6.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

6.6.2 Test Setup Diagram:



TEST REPORT

Report No.: MTi260331016-0301E1

6.6.3 Test Data:

YZ11002:

Mode1

Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
H	1735.68	58.83	-5.38	53.45	74	-20.55	peak
H	2603.52	47.96	-3.32	44.64	74	-29.36	peak
H	4339.2	50.71	1.69	52.4	74	-21.6	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
1301.760	Horizontal	53.45	0	53.45	54.00
3037.440	Horizontal	44.64	0	44.64	54.00
3905.280	Horizontal	52.4	0	52.4	54.00

Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	1735.680	55.75	-5.38	50.37	74	-23.63	peak
V	2603.520	46.3	-3.32	42.98	74	-31.02	peak
V	4339.200	50.48	1.69	52.17	74	-21.83	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
1301.760	Vertical	50.37	0	50.37	54.00
3037.440	Vertical	42.98	0	42.98	54.00
3905.280	Vertical	52.17	0	52.17	54.00

Note1: Duty Factor = 20 * log (Duty Cycle)

Note2: AVG Level= PEAK Level+ Duty Factor(0dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Mode2

Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
H	1736.700	63.4	-5.37	50.03	74.00	-23.97	peak
H	2605.050	63.84	-1.27	51.57	74.00	-22.43	peak
H	3473.400	50.19	1.7	48.89	74.00	-25.11	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
1736.700	Horizontal	50.03	-1.58	48.45	54.00
2598.000	Horizontal	51.57	-1.58	49.99	54.00
3473.400	Horizontal	48.89	-1.58	47.31	54.00

Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	1736.700	59.51	-5.37	50.14	74.00	-23.86	peak
V	3473.400	47.34	-1.27	46.07	74.00	-27.93	peak
V	4341.750	59.4	-5.41	50.99	74.00	-23.01	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
1736.700	Vertical	50.14	-1.58	48.56	54.00
2598.000	Vertical	46.07	-1.58	44.49	54.00
3473.400	Vertical	50.99	-1.58	49.41	54.00

Note1: Duty Factor = $20 * \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor(-1.58dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Mode3

Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
H	1830.000	46.67	-3.61	43.06	74.00	-30.94	peak
H	2745.000	44.46	-2.95	41.51	74.00	-32.49	peak
H	3660.000	45.63	-0.78	44.85	74.00	-29.15	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
1830.000	Horizontal	43.06	-0.83	42.23	54.00
2745.000	Horizontal	41.51	-0.83	40.68	54.00
3660.000	Horizontal	44.85	-0.83	44.02	54.00

Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	1830.000	47.66	-3.61	44.05	74.00	-29.95	peak
V	2745.000	44.68	-2.95	41.73	74.00	-32.27	peak
V	3660.000	43.96	-0.78	43.18	74.00	-30.82	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
1830.000	Vertical	44.05	-0.83	43.22	54.00
2745.000	Vertical	41.73	-0.83	40.9	54.00
3660.000	Vertical	43.18	-0.83	42.35	54.00

Note1: Duty Factor = $20 * \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor(-0.83dB)

TEST REPORT

Report No.: MTi260331016-0301E1

HC-PM05:
Mode1

Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
H	1735.680	61.16	-5.38	50.78	74.00	-23.22	peak
H	2603.520	48.12	-3.32	44.8	74.00	-29.2	peak
H	4339.200	57.89	1.69	51.58	74.00	-22.42	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
1735.680	Horizontal	50.78	0	50.78	54.00
2603.520	Horizontal	44.8	0	44.8	54.00
4339.200	Horizontal	51.58	0	51.58	54.00

Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	1735.680	55.79	-5.38	50.41	74.00	-23.59	peak
V	2603.520	46.46	-3.32	43.14	74.00	-30.86	peak
V	4339.200	55.57	1.69	51.26	74.00	-22.74	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
1735.680	Vertical	50.41	0	50.41	54.00
2603.520	Vertical	43.14	0	43.14	54.00
4339.200	Vertical	51.26	0	51.26	54.00

Note1: Duty Factor = $20 * \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor(0dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Mode2

Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
H	1736.700	63.33	-5.37	51.96	74.00	-22.04	peak
H	2605.050	63.51	-1.27	52.24	74.00	-21.76	peak
H	3473.400	50.48	1.7	52.18	74.00	-21.82	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
1736.700	Horizontal	51.96	-1.58	50.38	54.00
2605.050	Horizontal	52.24	-1.58	50.66	54.00
3473.400	Horizontal	52.18	-1.58	50.6	54.00

Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	1736.700	59.76	-5.37	51.39	74.00	-22.61	peak
V	3473.400	48.58	-1.27	47.31	74.00	-26.69	peak
V	4341.750	54.65	1.7	53.35	74.00	-20.65	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
1736.700	Vertical	51.39	-1.58	49.81	54.00
3473.400	Vertical	47.31	-1.58	45.73	54.00
4341.750	Vertical	53.35	-1.58	51.77	54.00

Note1: Duty Factor = $20 * \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor(-1.58dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Mode3

Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
H	1830.000	45.45	-3.61	41.84	74.00	-32.16	peak
H	2745.000	44.84	-2.95	41.89	74.00	-32.11	peak
H	3660.000	43.28	-0.78	42.5	74.00	-31.5	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
1830.000	Horizontal	41.84	-0.83	41.01	54.00
2745.000	Horizontal	41.89	-0.83	41.06	54.00
3660.000	Horizontal	42.5	-0.83	41.67	54.00

Polar	Frequency	Reading Level	Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	1830.000	44.64	-3.61	41.03	74.00	-32.97	peak
V	2745.000	44.11	-2.95	41.16	74.00	-32.84	peak
V	3660.000	43.88	-0.78	43.1	74.00	-30.9	peak

Freq(MHz)	Polarization	Peak Level(dBuV/m)	Duty Factor(dB)	AVG Level(dBuV/m)	Limit(dBuV/m)
1830.000	Vertical	41.03	-0.83	40.2	54.00
2745.000	Vertical	41.16	-0.83	40.33	54.00
3660.000	Vertical	43.1	-0.83	42.27	54.00

Note1: Duty Factor = $20 * \log(\text{Duty Cycle})$

Note2: AVG Level= PEAK Level+ Duty Factor(-0.83dB)

TEST REPORT

Report No.: MTi260331016-0301E1

Photographs of the test setup

Refer to Appendix - Test Setup Photos

TEST REPORT

Report No.: MTi260331016-0301E1

Photographs of the EUT

Refer to Appendix - EUT Photos

TEST REPORT

Report No.: MTi260331016-0301E1

Statement

1. This report is invalid without the seal and signature of the laboratory.
2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
3. The report shall not be partially reproduced without the written consent of the Laboratory.
4. This report is invalid if transferred, altered or tampered with in any form without authorization.
5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

***** END OF REPORT *****