

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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# **TEST REPORT**

Test Result:	Pass*		
Date of Issue:	2022-02-24		
Date of Test:	2021-11-05 to 2022-01-07		
Date of Receipt:	2021-09-02		
Standard(s) :	47 CFR Part 15, Subpart C 15.249		
Model No.:	Unitree remote control V2		
EUT Name:	Remote control		
Equipment Under Test (EU	Г):		
Address of Factory:	3rd Floor, Building 1, Fengda Creative Park, No. 88 Dongliu Road, Binjiang District, Hangzhou, Zhejiang , China		
Factory:	Unitree		
Address of Manufacturer:	3rd Floor, Building 1, Fengda Creative Park, No. 88 Dongliu Road, Binjiang District, Hangzhou, Zhejiang, China		
Manufacturer:	Unitree		
Address of Applicant:	3rd Floor, Building 1, Fengda Creative Park, No. 88 Dongliu Road, Binjiang District, Hangzhou, Zhejiang , China		
Applicant:	Unitree		
FCC ID:	2A5PE-YUSHU002		
Application No.:	SHCR2108000034AT		

\* In the configuration tested, the EUT complied with the standards specified above.

parlan shan

Parlam Zhan Laboratory Manager



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Revision Record			
Version Description Date Remark			
00	Original	2022-02-24	1

Authorized for issue by:		
	Wade thang	
	Wade Zhang / Project Engineer	·
	parlam zhan	
	Parlam Zhan / Reviewer	-



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## 2 Test Summary

Radio Spectrum Tech	Radio Spectrum Technical Requirement			
Item	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
20dB Bandwidth	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass
Radiated Emissions	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass



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## 4 General Information

## 4.1 Details of E.U.T.

Power supply:	DC 3.7V 3000mAh
Test voltage:	DC 3.7V
Frequency Range:	2401.6 ~ 2480 MHz
Antenna Gain	4dBi (Provided by manufacturer)
Antenna Type	Dipole Antenna
Channel Spacing	0.8MHz
Modulation Type	FSK
Number of Channels	99

## 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	/
Serial port adapter plate	/	Test Plate 3	/

## 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
F	DE Dedicted Dever	5.1dB (Below 1GHz)
5	RF Radiated Power	4.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
6	Dedicted Sourieue Emission Test	4.5dB (30MHz-1GHz)
0	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
7	Temperature Test	1°C
8	Humidity Test	3%
9	Supply Voltages	1.5%
10	Time	3%

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



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## 4.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China Tel: +86 21 6191 5666 Fax: +86 21 6191 5678 No tests were sub-contracted.

## 4.5 Test Facility

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

## • CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

## • A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

## • FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

### • ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

## • VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2021-08-13	2022-08-12
DC Power Supply	MCH	MCH-303A	SHEM210-1	2021-12-20	2022-12-19
Conducted test Cable	/	RF01~RF04	/	2021-12-20	2022-12-19
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2021-12-20	2022-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Communication Tester	R&S	CMW500	SHEM183-2	2021-04-16	2022-04-15
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2021-12-20	2022-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2020-04-30	2022-04-29
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2019-10-24	2022-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2021-05-27	2022-05-26
Pre-Amplifier	PANSHAN	LNA 1-18G	SHEM235-1	2021-05-27	2022-05-26
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2021-12-20	2022-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2021-12-20	2022-12-19
Test software	ESE	E3	Version: 6.111221a	1	/



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## 6 Radio Spectrum Technical Requirement

## 6.1 Antenna Requirement

### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 Limit:

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.

#### 6.1.2 Conclusion

Standard 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.

#### EUT Antenna:

The antenna is dipole antenna and no consideration of replacement. The best case gain of the antenna is 4dBi.

Antenna location: Refer to Appendix (Internal Photos)



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## 7 Radio Spectrum Matter Test Results

## 7.1 20dB Bandwidth

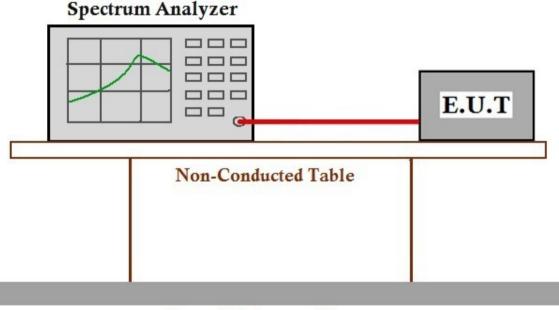
Test Requirement47 CFR Part 15, Subpart C 15.215Test Method:ANSI C63.10 (2013) Section 6.9

## 7.1.1 E.U.T. Operation

Operating Environment:

Temperature:20 °CHumidity:50 % RHAtmospheric Pressure:1010 mbarTest modea:TX mode\_Keep the EUT in transmitting with modulation mode.

## 7.1.2 Test Setup Diagram



## **Ground Reference Plane**

## 7.1.3 Measurement Procedure and Data

- 1. Place the EUT on the table and set it in Engineering 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 = approximately 1 % to 5 % of the OBW (set 10 kHz), VBW =3\* RBW, Span=1MHz, Sweep=auto
- 4. Mark the peak frequency and -20dB (upper and lower) frequency.
- 5. Repeat above procedures until all frequency measured was complete.



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Frequency (MHz)	Bandwidth (MHz)	Result
2401.6	0.612	PASS
2440.8	0.614	PASS
2480	0.578	PASS

### Test plot as follows:



Date: 17.JAN.2022 16:49:03



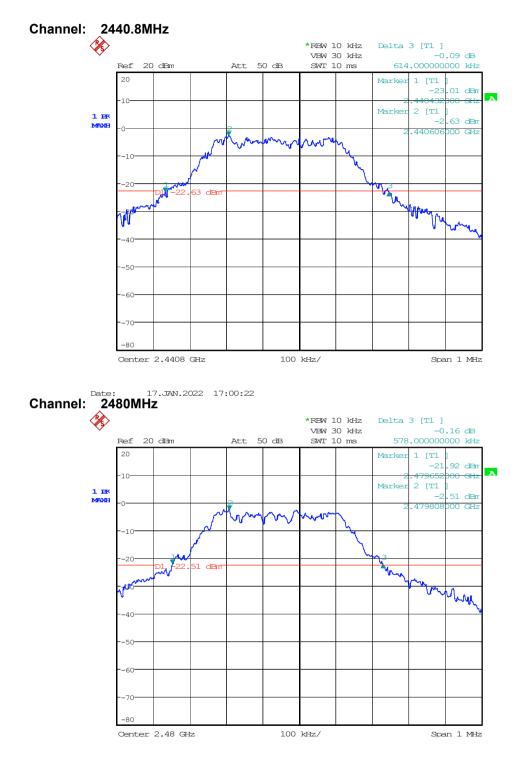
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## 7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement Test Method:

47 CFR Part 15, Subpart C 15.249(a) ANSI C63.10 (2013) Section 6.5&6.6

**Test Site:** 

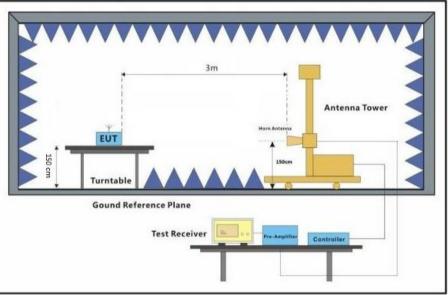
Limit:

#### Moscurament Distance: 2m

**Receiver Setup:** 

Frequency	Detector	RBW	VBW	Remark		
Above 1GHz	Peak	1MHz	3MHz	Peak		
	Peak	1MHz	10Hz	Average		

Frequency	Limit (dBuV/m)	Remark
2400-2492 5 MH-	114	Peak
2400~2483.5 MHz	94	Average



Test Setup:

**Test Procedure:** 

- The EUT was placed on the top of a rotating table 0.8 meters above the a. ground at a 3 meter semi-anechoic camber. 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.
- The test-receiver system was set to Peak Detect Function and Specified e. Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit f.



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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, quasi-peak or average method as specified and then reported in a data sheet.

Test Results: Pass

### **Measurement Data**

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
2404.6	93.11	-3.39	89.72	94	-4.28	Peak	Horizontal
2401.6	86.32	-3.39	82.93	94	-11.07	Peak	Vertical

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
2440.0	95.01	-3.33	91.68	94	-2.32	Peak	Horizontal
2440.8	87.56	-3.33	84.23	94	-9.77	Peak	Vertical

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
0400	90.68	-3.27	87.41	94	-6.59	Peak	Horizontal
2480	85.59	-3.27	82.32	94	-11.68	Peak	Vertical

Remark:

1) The basic equation with a sample calculation is as follows: Level = Read Level + Factor.

(The Factor is calculated by adding the Antenna Factor, Cable Loss and Preamp Factor)

2) If the Peak value below the Average Limit, the Quasi-Peak test doesn't perform for this submission.



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## 7.3 Restricted Band Around Fundamental Frequency

Test Requirement Test Method:	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209 ANSI C63.10 (2013) Section 6.4&6.5&6.6					
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				

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature:	22 °C	Humidity:	50	% RH	Atmospheric Pressure:	1002	mbar
Test mode	a:TX mode_	Keep the EUT i	in tra	nsmitting	with modulation mode.		



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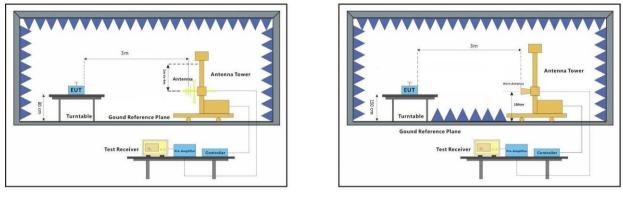
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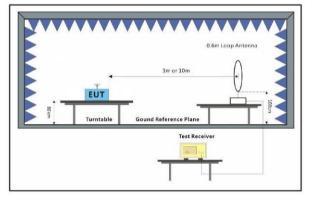


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## 7.3.2 Test Setup Diagram







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#### 7.3.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. 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.

c. 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.

d. 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.

e. 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.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. 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, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. 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.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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.



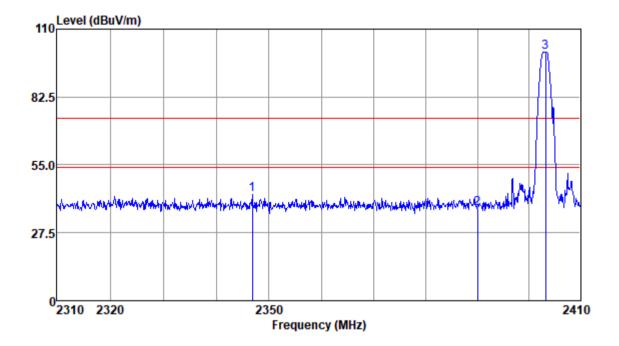
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2401.6MHz:



### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2346.81	46.48	28.87	2.72	35.14	42.93	74.00	-31.07	Peak
2390.00	40.81	28.97	2.77	35.18	37.37	74.00	-36.63	Peak
2403.27	104.18	29.01	2.79	35.19	100.79	74.00	26.79	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

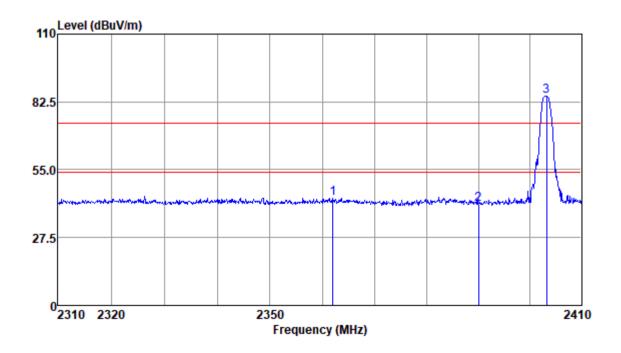


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### Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2361.97	47.01	28.92	2.74	35.16	43.51	74.00	-30.49	Peak
2390.00	44.50	28.97	2.77	35.18	41.06	74.00	-32.94	Peak
2403.27	88.29	29.01	2.79	35.19	84.90	74.00	10.90	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



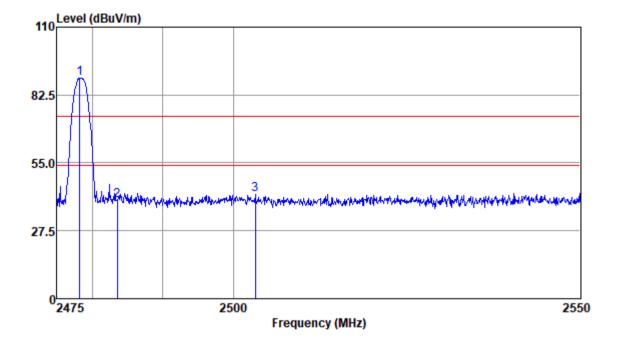
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2480MHz:



#### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
 MH-7	dBuy			dB	dBuv/m	 dBuy/m	 dB	
					89.27			Peak
2483.50	43.17	29.11	2.88	35.26	39.90	74.00	-34.10	Peak
2503.16	45.39	29.14	2.90	35.27	42.16	74.00	-31.84	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

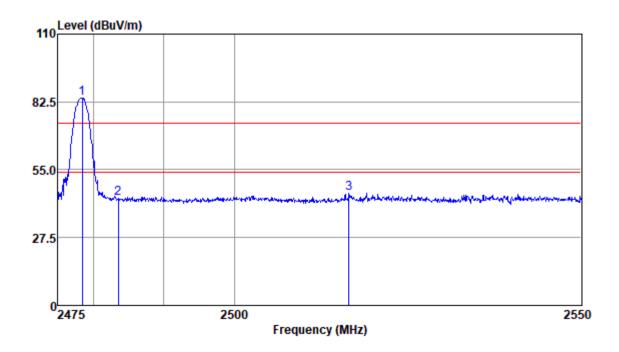


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#### Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2478.40	87.28	29.10	2.88	35.25	84.01	74.00	10.01	Peak
2483.50	46.54	29.11	2.88	35.26	43.27	74.00	-30.73	Peak
2516.42	48.73	29.24	2.91	35.29	45.59	74.00	-28.41	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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## 7.4 Radiated Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
Test Method:	ANSI C63.10 (2013) Section 6.4&6.5&6.6
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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

### 7.4.1 E.U.T. Operation

**Operating Environment:** 

Temperature:	22 °C	Humidity:	50	% RH	Atmospheric Pressure:	1002	mbar	
Test mode	a:TX mode Keep the EUT in transmitting with modulation mode.							



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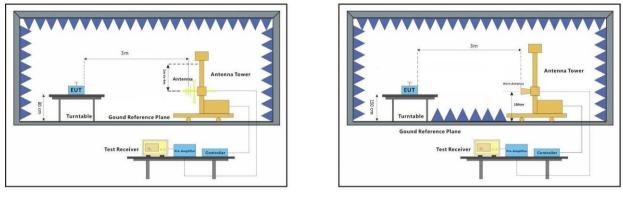
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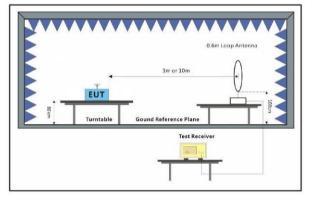


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## 7.4.2 Test Setup Diagram







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#### 7.4.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. 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.

c. 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.

d. 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.

e. 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.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. 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, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. 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.

j. Repeat above procedures until all frequencies measured was complete.

Remark:

1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and 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.

4) 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



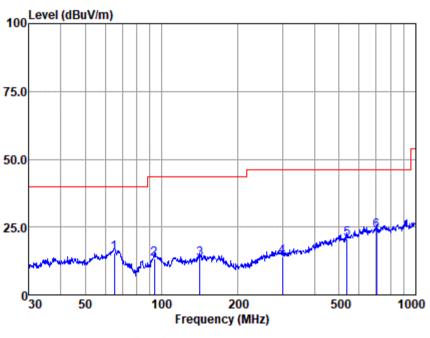
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30MHz-1GHz: Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL

	Freq		Antenna Factor						Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	65.114	33.11	12.54	1.17	31.42	15.40	40.00	-24.60	QP
2	93.440	35.48	8.09	1.43	31.59	13.41	43.50	-30.09	QP
3	141.330	30.38	12.84	1.80	31.70	13.32	43.50	-30.18	QP
4	299.316	28.97	13.41	2.83	31.05	14.16	46.00	-31.84	QP
5	537.589	29.22	18.70	3.69	30.90	20.71	46.00	-25.29	QP
6	701.761	29.55	21.03	4.22	31.11	23.69	46.00	-22.31	QP
4 5	299.316 537.589	28.97 29.22	13.41 18.70	2.83 3.69	31.05 30.90	14.16 20.71	46.00 46.00	-31.84 -25.29	QP QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



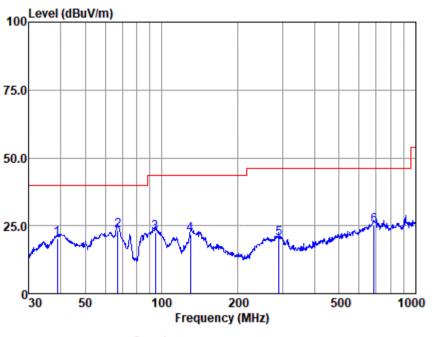
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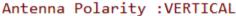
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Mode:a; Polarization:Vertical





	Freq		Antenna Factor						Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	38.888	38.14	13.25	0.87	31.98	20.28	40.00	-19.72	QP
2	67.202	41.30	12.24	1.19	31.43	23.30	40.00	-16.70	QP
3	94.428	44.59	8.16	1.44	31.60	22.59	43.50	-20.91	QP
4	129.923	39.62	12.06	1.72	31.68	21.72	43.50	-21.78	QP
5	290.017	35.52	13.34	2.78	31.28	20.36	46.00	-25.64	QP
6	687.151	31.18	20.48	4.19	30.92	24.93	46.00	-21.07	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



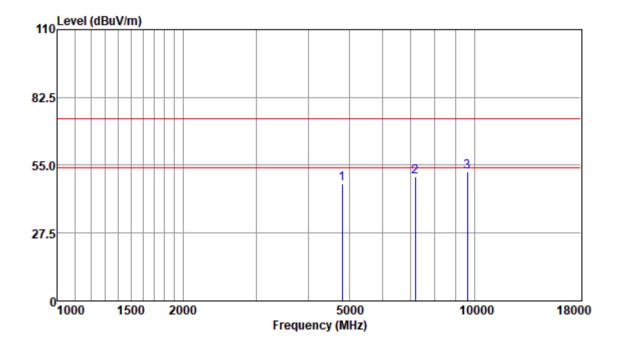
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Above 1GHz: 2401.6MHz:



## Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHZ	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4806.00	46.23	33.72	4.46	36.79	47.62	74.00	-26.38	Peak
7209.00	43.81	36.28	5.72	35.53	50.28	74.00	-23.72	Peak
9612.00	41.64	37.70	6.53	33.58	52.29	74.00	-21.71	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

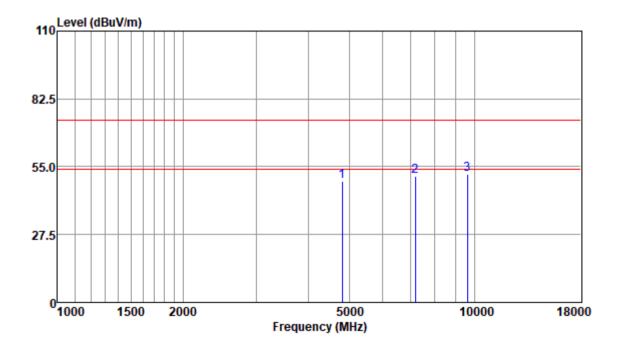


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### Antenna Polarity :VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4806.00	47.90	33.72	4.46	36.79	49.29	74.00	-24.71	Peak
7209.00	44.59	36.28	5.72	35.53	51.06	74.00	-22.94	Peak
9612.00	41.43	37.70	6.53	33.58	52.08	74.00	-21.92	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



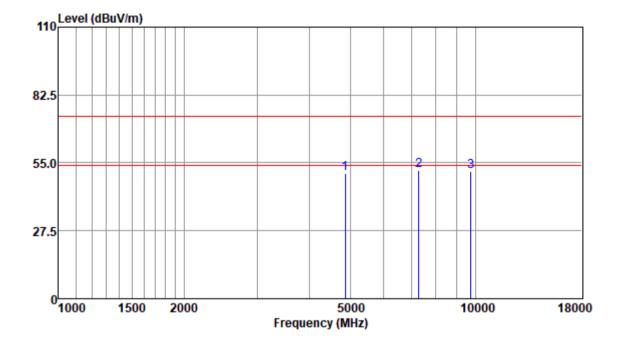
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2440.8MHz:



### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4868.00	49.06	33.93	4.47	36.81	50.65	74.00	-23.35	Peak
7302.00	45.20	36.47	5.83	35.44	52.06	74.00	-21.94	Peak
9736.00	40.96	37.74	6.51	33.52	51.69	74.00	-22.31	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

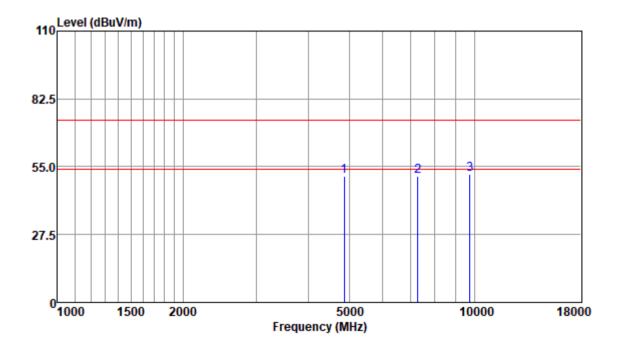


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### Antenna Polarity :VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4868.00	49.47	33.93	4.47	36.81	51.06	74.00	-22.94	Peak
7302.00	44.43	36.47	5.83	35.44	51.29	74.00	-22.71	Peak
9736.00	41.09	37.74	6.51	33.52	51.82	74.00	-22.18	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



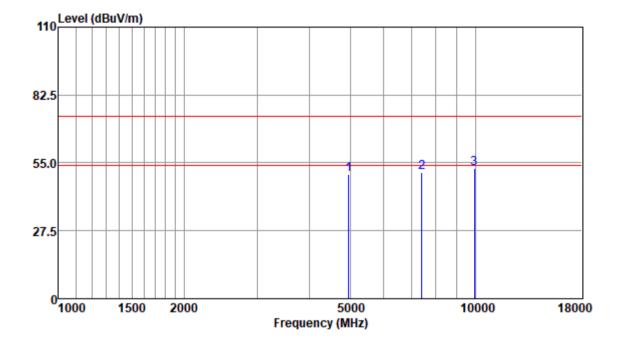
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2480MHz:



### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4956.00	48.63	33.98	4.48	36.83	50.26	74.00	-23.74	Peak
7434.00	44.23	36.40	5.97	35.34	51.26	74.00	-22.74	Peak
9912.00	41.85	37.81	6.47	33.41	52.72	74.00	-21.28	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

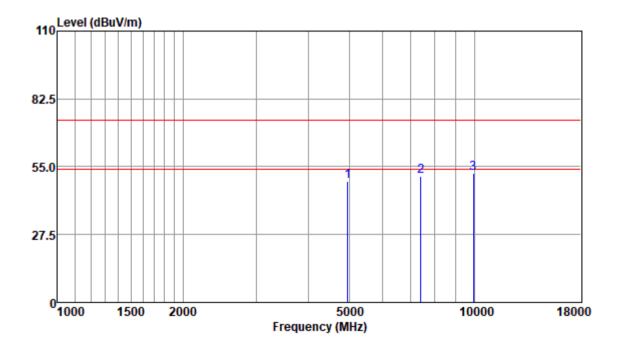


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### Antenna Polarity :VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4956.00	47.65	33.98	4.48	36.83	49.28	74.00	-24.72	Peak
7434.00	43.92	36.40	5.97	35.34	50.95	74.00	-23.05	Peak
9912.00	41.39	37.81	6.47	33.41	52.26	74.00	-21.74	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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## 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

## 9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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