

## TEST REPORT

**Application No.:** ZR/2021/10041  
**Applicant:** Honor Device Co., Ltd.  
**Address of Applicant:** Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China  
**Manufacturer:** Honor Device Co., Ltd.  
**Address of Manufacturer:** Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China  
**EUT Description:** Wireless Earphone  
**Model No.:** T0005 (for earphone), T0005C (for charging case)  
**Trade Mark:** HONOR  
**FCC ID:** 2AYGCT0005C  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2021/2/7  
**Date of Test:** 2021/2/7 to 2021/2/22  
**Date of Issue:** 2021/4/17

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Simon Ling

Wireless Laboratory Manager



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<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2021/3/9		Original
02		2021/4/17	James Qin	Update equipment list

<b>Authorized for issue by:</b>			
<b>Prepared By</b>		<i>Leah Chen</i>	
		_____	
		<b>(Leah Chen) / Engineer</b>	
<b>Checked By</b>		<i>Daniel Wang</i>	
		_____	
		<b>(Daniel Wang) /Reviewer</b>	



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## Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower

Test engineer: Leah Chen, Ken Liu, Andy Yao



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## 1 General Information

Product Name:	Wireless Earphone		
Model No.(EUT):	T0005 (for earphone), T0005C (for charging case)		
Trade Mark:	HONOR		
Hardware Version:	PCB V8		
Software Version:	Otter-CT030+1.0.0.126		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	Bluetooth	2402~2480	2402~2480

### Accessory:

Cable No.	Type-C	Model No.	Manufacturer
1	USB Cable	\	\



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### 1.1 Description of Support Units

Description	Manufacturer	Model No.
Phone	Huawei	EBG-AN00

### 1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086

No tests were sub-contracted.

### 1.3 Test Facility

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

- **A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

Test Site No.:	SGS Xian Site No.		FCC Designation No.
	CO01-XA	03CH01-XA	CN1271

### 1.4 Deviation from Standards

None

### 1.5 Abnormalities from Standard Conditions

None



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## 2 Emission Test Results

### 2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

#### 2.1.1 E.U.T. Operation

Operating Environment:

Temperature: 18.9 °C Humidity: 55.1 % RH Atmospheric Pressure: 1000 mbar

Pretest these modes to find the worst case:

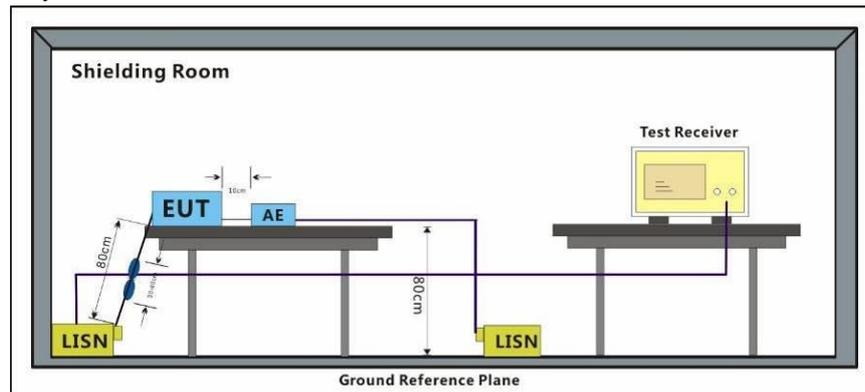
The worst case for final test:



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### 2.1.2 Test Setup Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



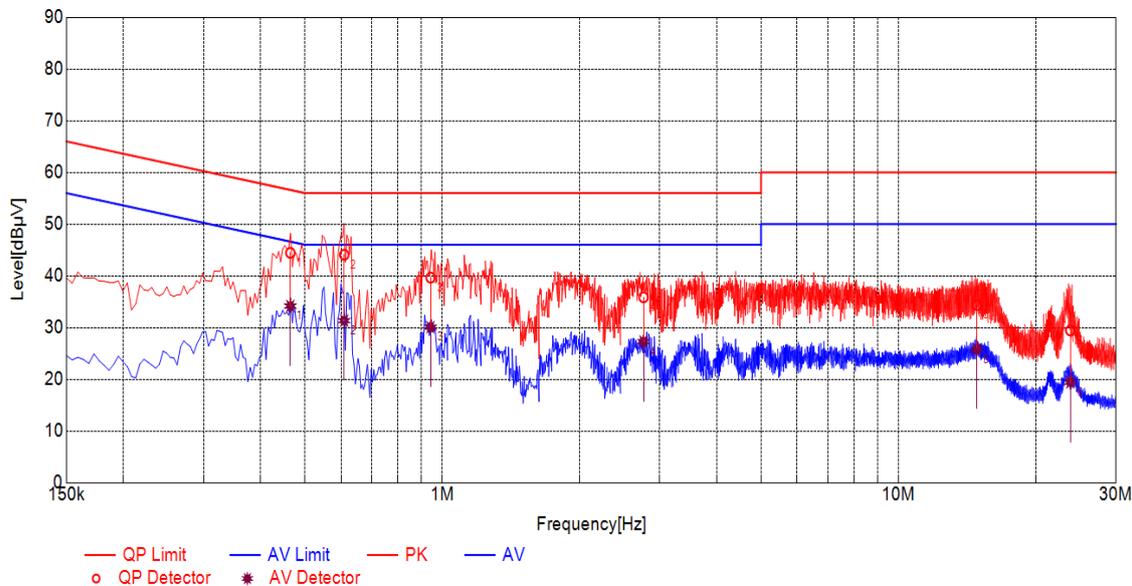
### 2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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Mode:a; Line:Live Line



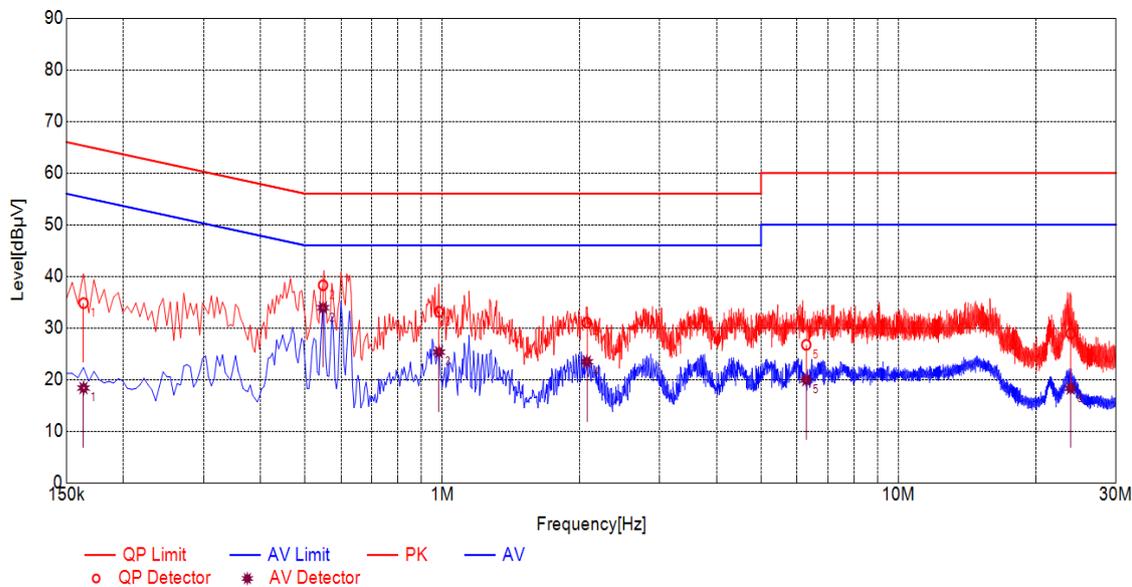
**Test Graph**

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.4646	10.10	44.45	56.61	12.16	34.16	46.61	12.45
2	0.6099	10.10	44.07	56.00	11.93	31.35	46.00	14.65
3	0.9429	10.10	39.65	56.00	16.35	30.07	46.00	15.93
4	2.7620	10.10	35.85	56.00	20.15	27.30	46.00	18.70
5	14.8606	10.11	34.35	60.00	25.65	25.81	50.00	24.19
6	23.8104	10.11	29.45	60.00	30.55	19.42	50.00	30.58



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Mode:a; Line:Neutral Line



Test Graph

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.1636	10.10	34.81	65.28	30.47	18.36	55.28	36.92
2	0.5480	10.10	38.27	56.00	17.73	33.91	46.00	12.09
3	0.9840	10.10	33.13	56.00	22.87	25.31	46.00	20.69
4	2.0761	10.10	31.01	56.00	24.99	23.44	46.00	22.56
5	6.2809	10.10	26.73	60.00	33.27	19.90	50.00	30.10
6	23.8563	10.11	28.92	60.00	31.08	18.30	50.00	31.70



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## 2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Limit:	
30MHz -88MHz	40.0(dBμV/m) quasi-peak
88MHz-216MHz	43.5(dBμV/m) quasi-peak
216MHz-960MHz	46.0(dBμV/m) quasi-peak
960MHz-1000MHz	54.0(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

### 2.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C      Humidity: 66.5 % RH      Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: EUT + USB cable1 + Adapter Charging
- b: EUT + Paly Music

The worst case for final test:

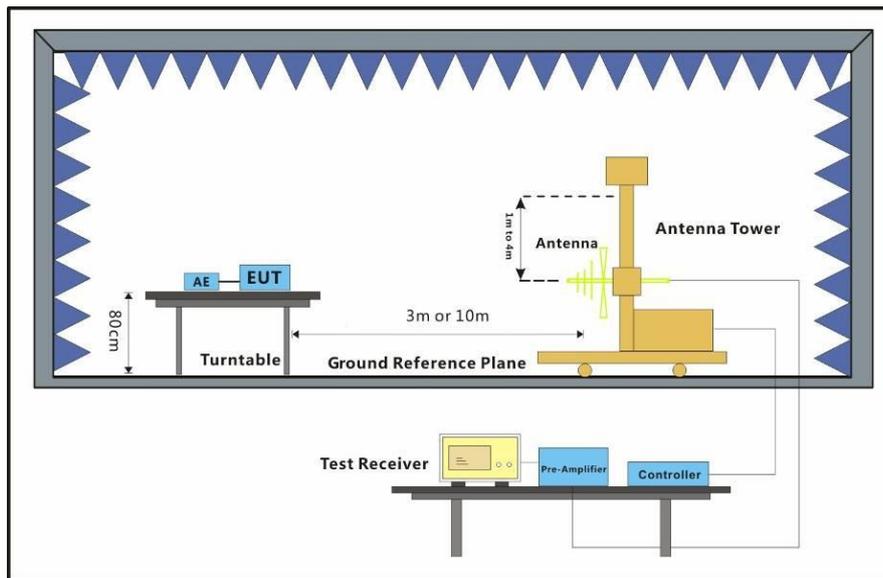
- a: EUT + USB cable1 + Adapter Charging



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**2.2.2 Test Setup Procedures**

1. The EUT was placed in a semi Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.



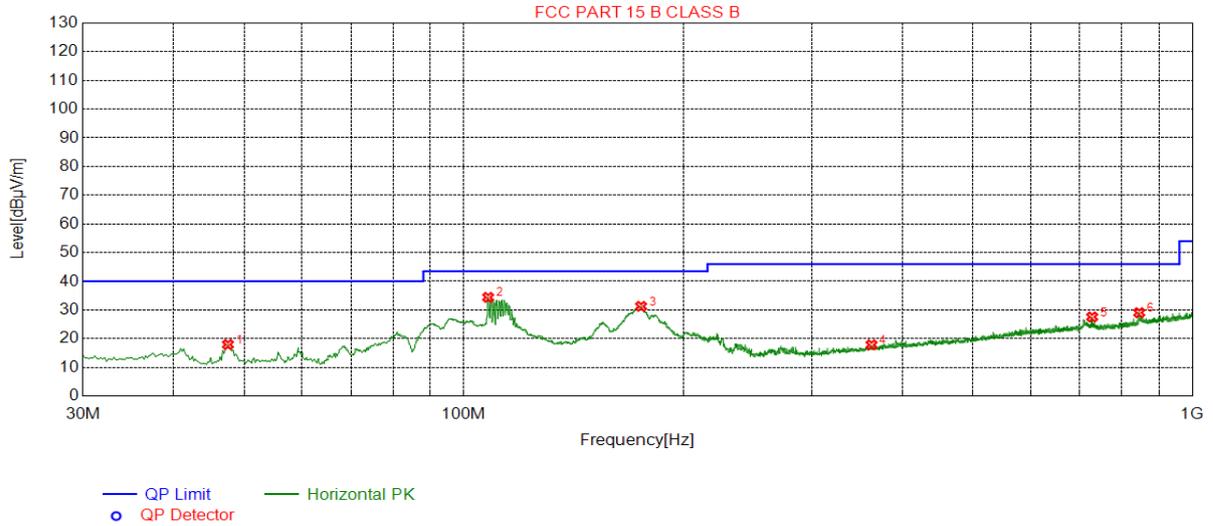
**2.2.3 Measurement Data**

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.



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Mode:a; Polarization:Horizontal



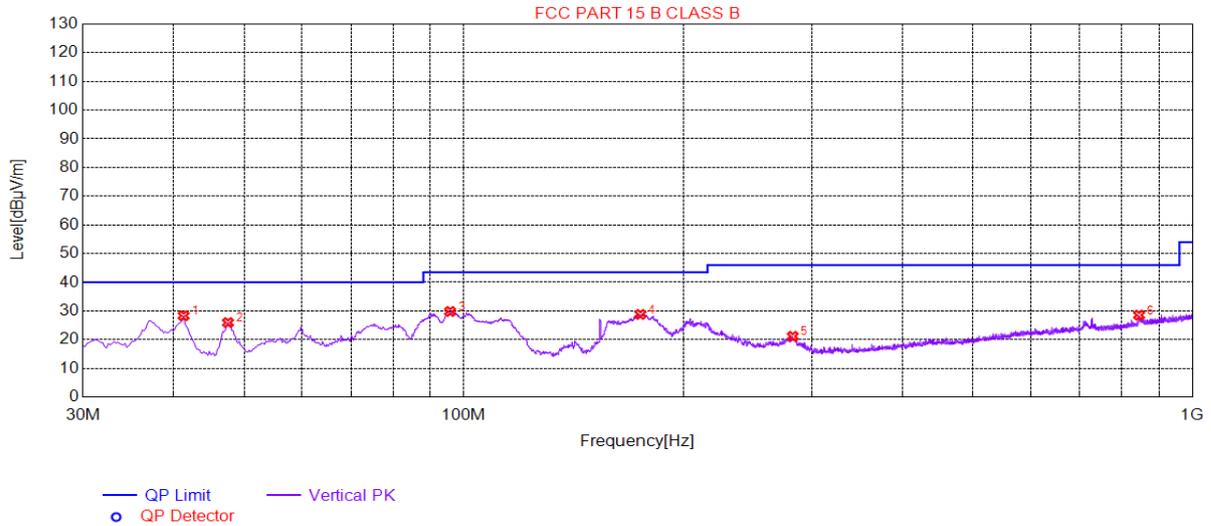
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.4635	17.97	-30.40	40.00	22.03	126	254	Horizontal
2	108.003	34.42	-32.00	43.50	9.08	120	259	Horizontal
3	175.141	31.27	-33.65	43.50	12.23	126	213	Horizontal
4	362.776	17.87	-26.53	46.00	28.13	186	134	Horizontal
5	728.539	27.59	-18.84	46.00	18.41	128	300	Horizontal
6	845.545	29.07	-16.96	46.00	16.93	228	50	Horizontal



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Mode:a; Polarization:Vertical



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.2543	28.36	-28.86	40.00	11.64	171	335	Vertical
2	47.4635	25.97	-30.40	40.00	14.03	188	326	Vertical
3	95.7792	29.85	-32.75	43.50	13.65	209	67	Vertical
4	174.753	28.82	-33.68	43.50	14.68	286	346	Vertical
5	282.832	21.18	-28.89	46.00	24.82	230	56	Vertical
6	844.963	28.57	-16.97	46.00	17.43	280	37	Vertical



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## 2.3 Radiated Emissions (above 1GHz)

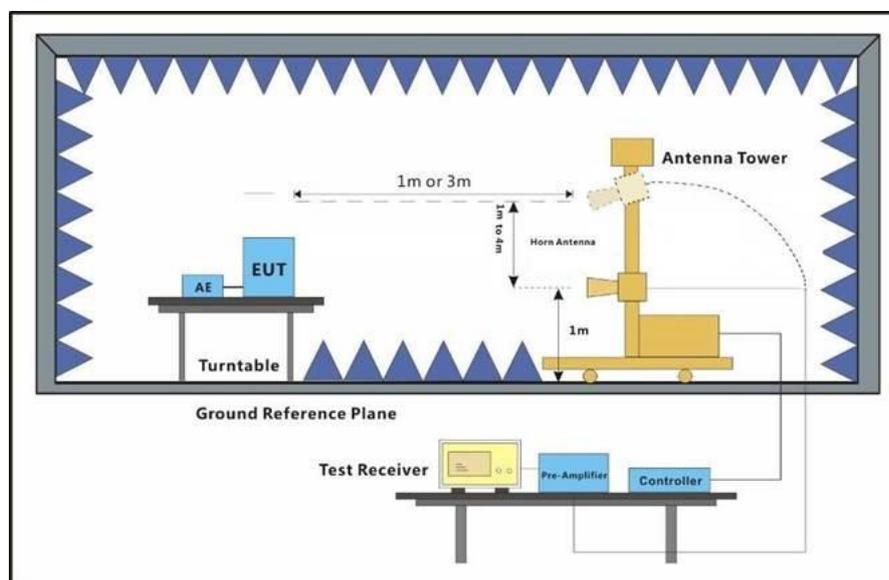
Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	Above 1GHz
Measurement Distance:	3m
Limit:	
Above 1GHz	74(dBμV/m) peak, 54(dBμV/m) average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 100M to18000MHz

### 2.3.1 E.U.T. Operation

Operating Environment:			
Temperature:	21.7 °C	Humidity:	56.4 % RH
		Atmospheric Pressure:	1010 mbar
Pretest these modes to find the worst case:	a: EUT + USB cable1 + Adapter Charging		
	b: EUT + Paly Music		
The worst case for final test:	a: EUT + USB cable1 + Adapter Charging		

### 2.3.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.



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### 2.3.3 Measurement Data

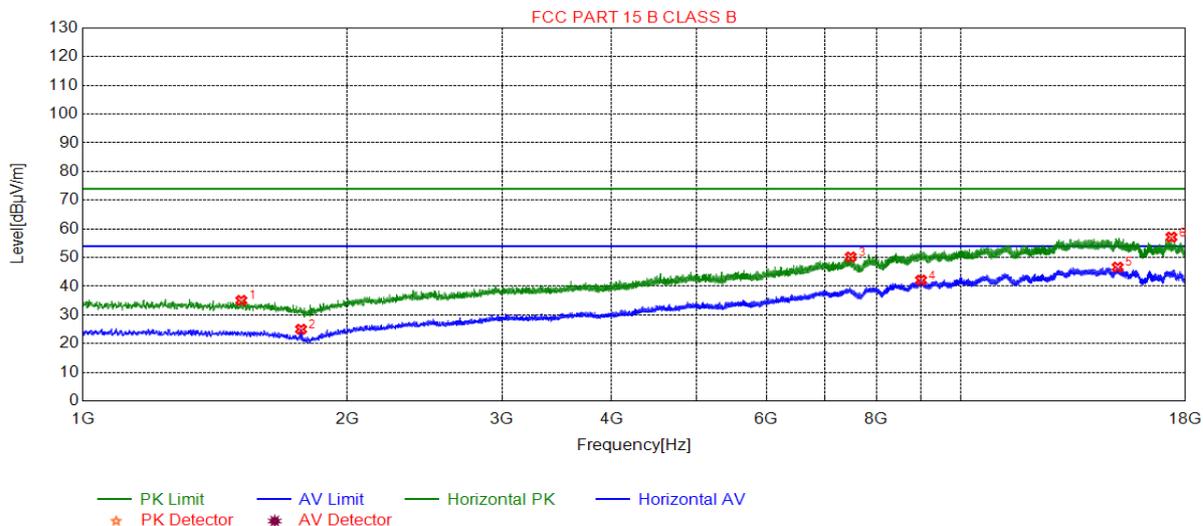
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed. Scan from 1GHz to 30GHz, 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.



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Mode:a; Polarization:Horizontal



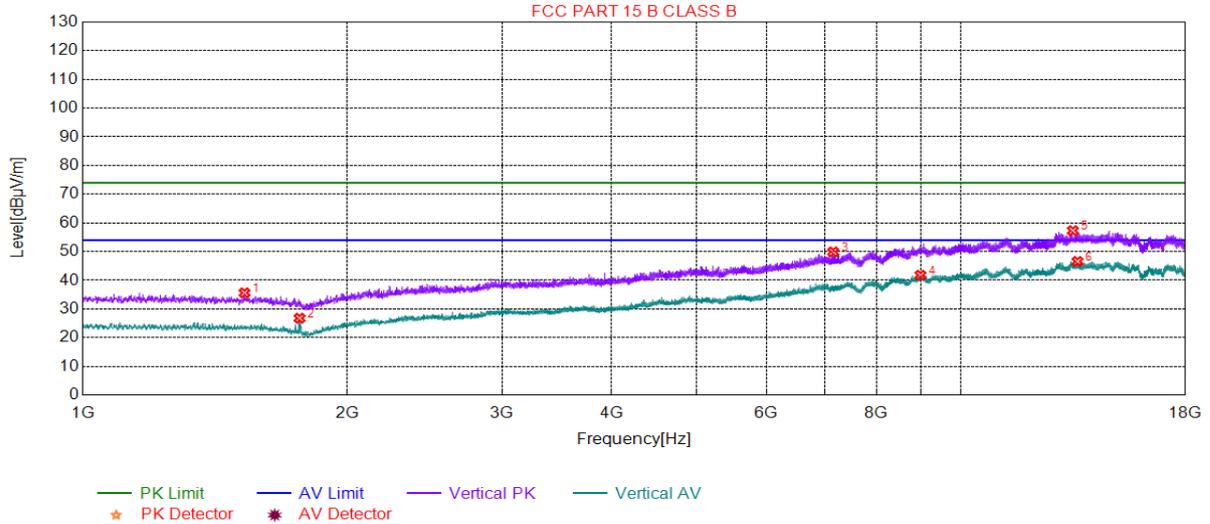
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1515.12	35.10	-30.11	74.00	38.90	121	215	Horizontal
2	1771.83	25.05	-31.85	54.00	28.95	119	194	Horizontal
3	7484.12	50.23	-9.61	74.00	23.77	214	280	Horizontal
4	8998.89	42.16	-6.17	54.00	11.84	173	64	Horizontal
5	15066.5	46.68	1.12	54.00	7.32	103	2	Horizontal
6	17342.9	57.16	-2.79	74.00	16.84	148	86	Horizontal



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Mode:a; Polarization:Vertical



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1527.87	35.62	-30.11	74.00	38.38	239	58	Vertical
2	1765.03	26.81	-31.75	54.00	27.19	201	124	Vertical
3	7148.35	49.88	-10.14	74.00	24.12	261	16	Vertical
4	8986.14	41.77	-6.21	54.00	12.23	245	274	Vertical
5	13395.3	57.29	0.27	74.00	16.71	252	37	Vertical
6	13561.0	46.56	0.67	54.00	7.44	175	296	Vertical



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### 3 Equipment List

RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
5G UXM	Keysight	E7515B	XAW01-04-01	2020-09-11	2021-09-10
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RE V3.0.0.2	XAW02-05-01	NCR	NCR

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
5G UXM	Keysight	E7515B	XAW01-19-02	2020-09-11	2021-09-10
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR



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## 4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



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## 5 Photographs

### 5.1 Test Setup

Refer to Appendix A JAB Setup Photos.

### 5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -

