



BUREAU  
VERITAS

Test Report No.: PSU-NQN2412090210EM01



Certificate #6613.01

## EMC TEST REPORT

Applicant:	HMD Global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland

Manufacturer or Supplier:	HMD Global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland
Product:	Mobile phone
Brand Name:	HMD
Model Name:	H1715V
FCC ID:	2AJOTTA-1715
Date of tests:	Jan. 13, 2025~Mar. 20, 2025

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

FCC Part 15, Subpart B, Class A  
 FCC Part 15, Subpart B, Class B  
 ANSI C63.4:2014

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
Date: Mar. 20, 2025	Date: Mar. 20, 2025

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**BUREAU  
VERITAS** Test Report No.: PSU-NQN2412090210EM01

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-NQN2412090210EM01	Original release	Mar. 20, 2025



## 1 GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	Mobile phone	
BRAND NAME*	HMD	
MODEL NAME*	H1715V	
NOMINAL VOLTAGE*	3.87Vdc(Battery) 5.0Vdc(Adapter)	
MODULATION TYPE*	BT_LE	GFSK
	Bluetooth	GFSK, π/4-DQPSK, 8DPSK
	FM	FM
	NFC	ASK
	WLAN	DSSS, OFDM
	GSM/GPRS/EDGE	GMSK, 8PSK
	WCDMA	BPSK/QPSK
	LTE	QPSK & 16QAM & 64QAM&256QAM
	5G NR	DFT-s-OFDM(π/2BPSK,QPSK,16QAM,64QAM,256QAM); CP-OFDM(QPSK,16QAM,64QAM,256QAM);
OPERATING FREQUENCY*	Bluetooth/BT_LE	2402MHz ~ 2480MHz
	FM	87.5MHz ~ 108MHz
	NFC	13.56 MHz
	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20/40) 5180 ~ 5240MHz, 5260 ~ 5320 MHz, 5500 ~ 5720MHz, 5745 ~ 5825 MHz for 11a/ n(HT20)/ n(HT40) / ac(VHT20)/ ac(VHT40) / ac(VHT80)
	GSM	824.2MHz ~ 848.8MHz (FOR GSM 850) 1850.2MHz ~ 1909.8MHz (FOR GSM 1900)
	WCDMA	1852.4MHz ~ 1907.6MHz(FOR WCDMA Band 2) 826.4MHz ~ 846.6MHz (FOR WCDMA Band 5)
OPERATING FREQUENCY	LTE	1850.7MHz ~ 1909.3MHz (FOR LTE Band2) 824.7MHz ~ 848.3MHz (FOR LTE Band5) 699.7MHz ~ 715.3MHz (FOR LTE Band12) 779.5MHz ~ 784.5MHz (FOR LTE Band13) 1710.7MHz ~ 1779.3MHz (FOR LTE Band66) 2A-4A



		2A-66A 5B 66B 66C CA_2A-5A CA_2A-13A CA_4A-5A CA_4A-13A CA_5A-66A CA_13A-66A
	5G NR	<b>SA/NSA:</b> n2 (1852.5MHz ~1907.5MHz) n5(826.5MHz ~ 846.5MHz) n66(1712.5 ~ 1777.5MHz) n77(Part27Q)( 3455.01 ~ 3544.98MHz) n77(Part27O)( 3705 ~ 3974.97MHz) <b>NSA:</b> DC_2A-n5A DC_2A-n66A DC_2A-n77A DC_5A-n2A DC_5A-n66A DC_5A-n77A DC_13A-n2A DC_13A-n66A DC_13A-n77A DC_66A-n2A DC_66A-n5A DC_66A-n77A
<b>HW VERSION*</b>	V1.0	
<b>SW VERSION*</b>	000T_0_310	
<b>I/O PORTS*</b>	Refer to user's manual	
<b>CABLE SUPPLIED*</b>	N/A	
<b>ACCESSORY DEVICES*</b>	Refer to note as below	

**NOTE:**

1. \*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in the test report.
4. The differences between the sample 1 and sample 2 as Listings below, others are the same. And



only the worst case was shown in the test report.

Object	Sample 1 1 <sup>st</sup> source		Sample 2 2 <sup>nd</sup> source	
	Specifications	Supplier	Specifications	Supplier
Display	JL-P067P003-05	Jinglong	Y92321	Digital
Memory (RAM) Memory (ROM)	FLXC2004G-N1	Longsys	BWCGBX32N2A-32G	Biwin
	MEMDNN064G-M1D03	Longsys	BWCTAMV11X64G	Biwin
Motor	C0830H-C138ZN-021	KunWang	CY0830-05-FPC-182	Chaoying
FPS Side fingerprint	SA-FC15X00-1470-B0	Shenao	HT.ZN-2832B	Huate
Mic	SM2718B381YR2-01	Rayking	S150B381-155	Goertek
GPS LNA	AW5005EDNR	AWINIC	WS7916DE	WILL

#### List of Accessory

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery	HMD	HUNAN GAOYUAN BATTERY CO.,LTD	CH426385	Capacity: 3.87Vdc, 4000mAh
USB Cable	Saibao	Saibao (Jiangxi) Industry Co.,Ltd.	SZN-A046A	Signal Line,1.0meter
USB Cable	Juwei	Huizhou Juwei Electronics Co.,Ltd	JWUB1913-ZN01H	Signal Line,1.0meter
Adapter	HMD	Shenzhen Baijunda Electronic Co., Ltd.	HAD-010U	I/P: 100 - 240 Vac, 50/60Hz, 0.35 A, O/P: 5.0 Vdc, 2.0A 10.0W



## 1.2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B			
Standard Section	Test Item	Result	Test lab*
FCC Part 15, Subpart B, Class B ANSI C63.4:2014	Conducted Test	Compliance	A
	Radiated Emission Test (30MHz ~ 1GHz)	Compliance	A
	Radiated Emission Test (Above 1GHz)	Compliance	A

\*Test Lab Information Reference

**Lab A:**

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

**Lab Address:**

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

**Accredited Test Lab Cert 6613.01**

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

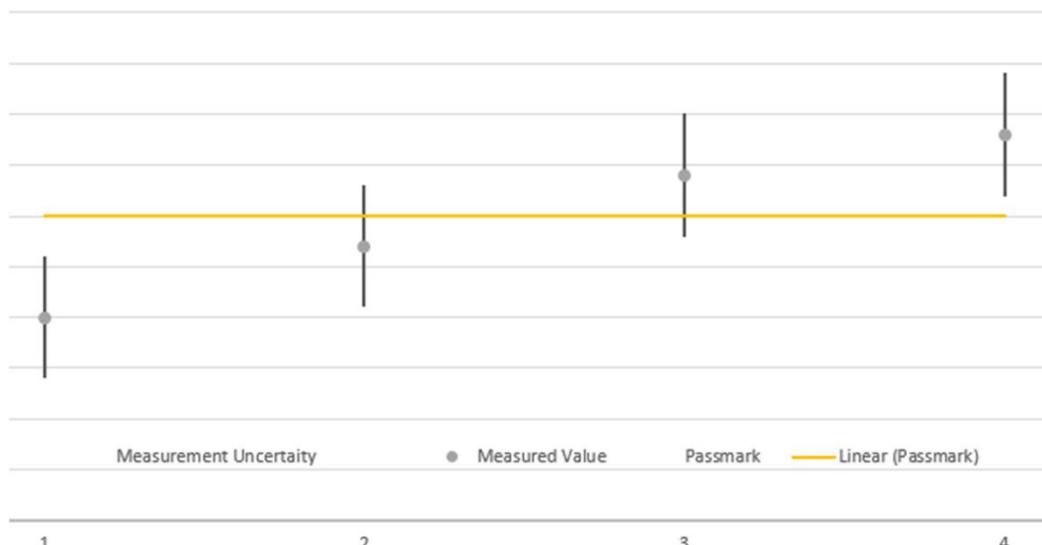


### 1.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz ~ 30MHz	$\pm 2.70\text{dB}$
Radiated emissions	30MHz~1GHz	$\pm 4.98\text{dB}$
	1GHz ~6GHz	$\pm 4.70\text{dB}$
	6GHz ~18GHz	$\pm 4.60\text{dB}$
	18GHz ~40GHz	$\pm 4.12\text{dB}$



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.



## 1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition
<b>Radiated emission test</b>	
1	GSM850 Idle+Adapter+USB cable 1+Front Camera On+SIM+sample1+SD+earphone
2	WCDMA B5 Idle+Adapte+USB cable 1+Back Camera On+SIMsample1+SD+earphone
3	LTE B5 Idle+Adapter+USB cable 1+flashlight on+SIM+sample1+SD+earphone
4	LTE B12 Idle+Adapter+USB cable 1+MPG4+SIM+sample1+SD+earphone
5	LTE B13 Idle+Adapter+USB cable 1+NFC+SIM+sample1+SD+earphone
6	NR N5 Idle+Adapter+USB cable 1+FM+SIM+sample1+SD+earphone
7	GSM850 Idle+USB Link+Data Transmission+Notebook to EUT+SIM+sample1+SD+earphone
8	CA 5B Idle+USB Link+Data Transmission+SD to Notebook+SIM+sample1+SD+earphone
9	Powered by battery+SIM+sample1+SD
10	worse of 1~9+sample2
11	worse of 1~10+USB cable 2



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Test Mode	Test Condition
<b>Conducted emission test</b>	
1	GSM850 Idle+Adapter+USB cable 1+Front Camera On+SIM+sample1+SD +earphone
2	WCDMA B5 Idle+Adapter+USB cable 1+Back Camera On+SIM+sample1+SD+earphone
3	LTE B5 Idle+Adapter+USB cable 1+flashlight on+SIM+sample1+SD+earphone
4	LTE B12 Idle+Adapter+USB cable 1+MPG4+SIM+sample1+SD+earphone
5	LTE B13 Idle+Adapter+USB cable 1+NFC+SIM
6	NR N5 Idle+Adapter+USB cable 1+FM+SIM+sample1+SD+earphone
7	GSM850 Idle+USB Link+Data Transmission+Notebook to EUT+SIM+sample1+SD+earphone
8	CA 5B Idle+USB Link+Data Transmission+SD to Notebook+SIM+sample1+SD+earphone
9	worse of 1~8+sample2
10	worse of 1~9+USB cable 2

**NOTE:**

1. For radiated emission test, test mode 7 was the verification case and only this mode was presented in this report
2. For conducted emission test, test mode 4 was the verification case and only this mode was presented in this report



## 1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Laptop	Lenovo	Thinkpad E14	SL10W47313	N/A
2	Micro SD	SAM SUNG	N/A	N/A	N/A
3	FM signal generator	Rohde&Schwarz	SMB 100A	182185	N/A
4	GPS Simulator+Antenna	Rohde&Schwarz	SMBV100A	261436	N/A
5	Universal radio communication tester	Rohde&Schwarz	CMW500	169399	N/A
6	WIFI Router	HUAWEI	N/A	N/A	N/A
7	Adapter	N/A	N/A	N/A	N/A
8	USB Cable	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	USB Line: Shielded, Detachable 1m;



## 2 EMISSION TEST

### 2.1.1 CONDUCTED EMISSION MEASUREMENT

### 2.1.2 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107 a CLASS B)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ V)	
0.15 ~ 0.5 0.5 ~ 5 5 ~ 30	Quasi-peak	Average
	66 to 56	56 to 46
	56	46
	60	50

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107 b CLASS A)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ V)	
0.15 ~ 0.5 0.5 ~ 30	Quasi-peak	Average
	79	66
	73	60

**NOTE:** 1. The lower limit shall apply at the transition frequencies.  
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.  
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 2.1.3 TEST INSTRUMENTS

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date
EMI Test Receiver	Rohde&Schwarz	ESR3	102749	Feb.24,24	Feb.23,26
ELEKTRA test software	Rohde&Schwarz	ELEKTRA	NA	N/A	N/A
LISN network	Rohde&Schwarz	ENV216	102640	Feb.16,24	Feb.15,26
CABLE	Rohde&Schwarz	W61.01	N/A	Oct.25,24	Apr.24,25
CABLE	Rohde&Schwarz	W601	N/A	Oct.25,24	Apr.24,25
EMI Test Receiver	Rohde&Schwarz	ESR3	102749	Feb.24,24	Feb.23,26

**NOTE:** 1. The test was performed in CE shielded room.



### **2.1.3 TEST PROCEDURES**

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

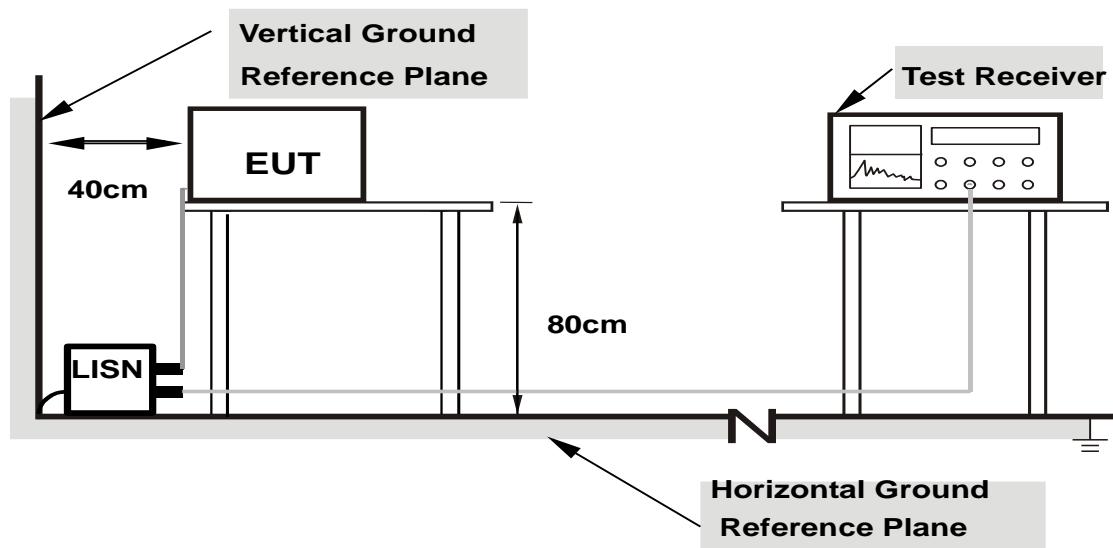
**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

### **2.1.4 DEVIATION FROM TEST STANDARD**

No deviation.



## 2.1.5 TEST SETUP



**Note:**

1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

## 2.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.

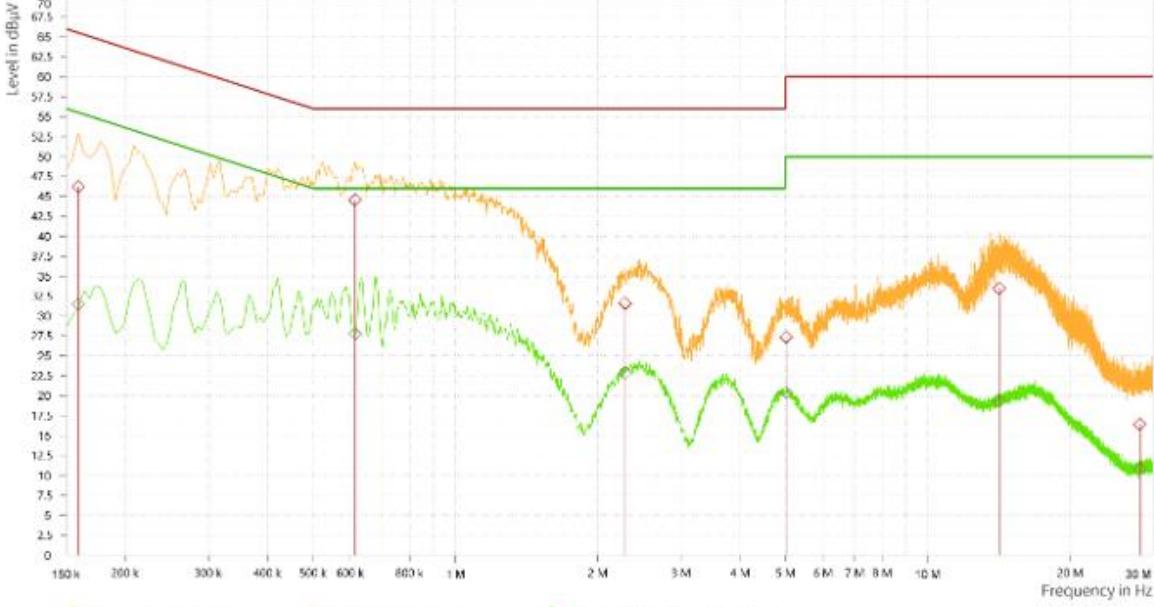


## 2.1.7 TEST RESULTS

<b>Test Voltage</b>		Input 120 Vac, 60 Hz			<b>Detector Function &amp; Resolution Bandwidth</b>			Quasi-Peak (QP) / Average (AV), 9 kHz		
<b>Environmental Conditions</b>		26deg. C, 51%RH			<b>Tested By</b>			Hanwen Xu		
R <sub>g</sub>	Frequency [MHz]	QPK Level [dB $\mu$ V]	QPK Limit [dB $\mu$ V]	QPK Margin [dB]	CAV Level [dB $\mu$ V]	CAV AVG Limit [dB $\mu$ V]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.159	46.22	65.52	19.30	31.49	55.52	24.03	12.47	L1	9.000
1	0.614	44.56	56.00	11.44	27.79	46.00	18.21	11.74	L1	9.000
1	2.288	31.60	56.00	24.40	22.85	46.00	23.15	11.76	L1	9.000
1	5.015	27.36	60.00	32.64	20.44	50.00	29.56	11.79	L1	9.000
1	14.177	33.47	60.00	26.53	19.32	50.00	30.68	11.84	L1	9.000
1	28.136	16.43	60.00	43.57	10.82	50.00	39.18	11.91	L1	9.000

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Limit value- Emission level
4. Correction factor = Insertion loss + Cable loss + Attenuate
5. Emission Level = Correction Factor + Reading Value.



Legend for the graph:

- AVC Level @Spectrum Overview
- CAR Level @Final Results
- QPK Level @Spectrum Overview
- QPK Level @Final Results
- QAV Level @Spectrum Overview
- QAV Level @Final Results
- QCAR Level @Spectrum Overview
- QCAR Level @Final Results
- QAV Level @Spectrum Overview
- QAV Level @Final Results
- QCAR Level @Spectrum Overview
- QCAR Level @Final Results

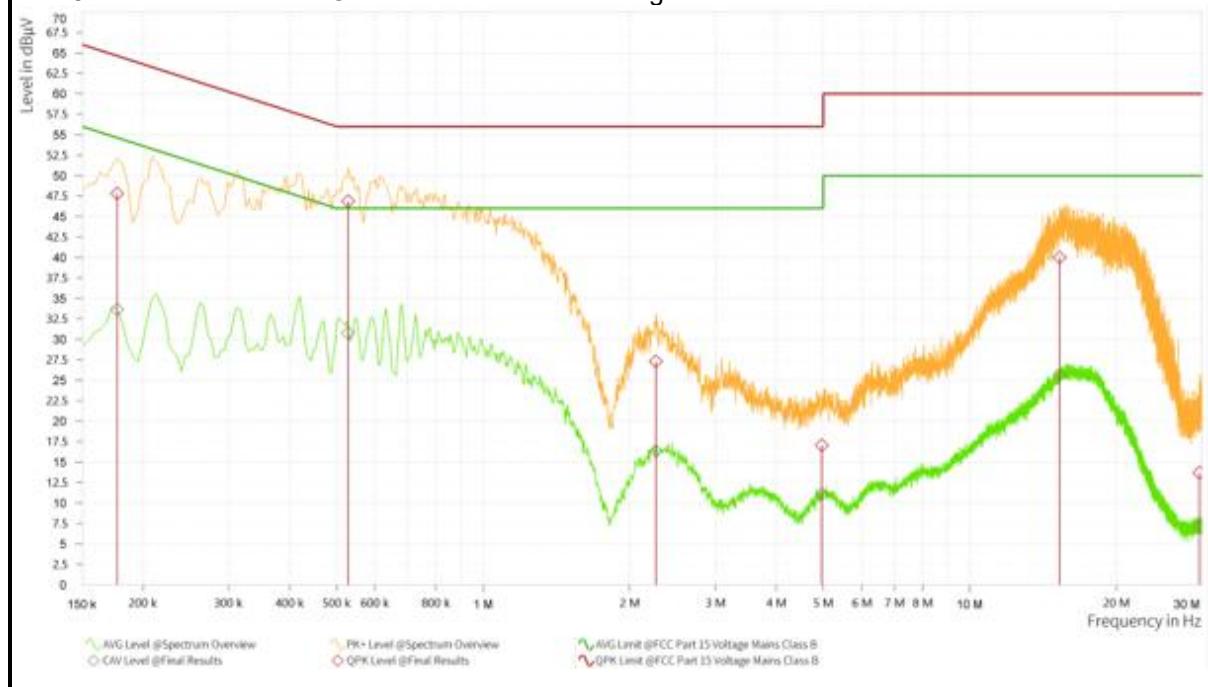


<b>Test Voltage</b>	Input 120 Vac, 60 Hz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (Qp) / Average (Av), 9 kHz
<b>Environmental Conditions</b>	26deg. C, 51%RH	<b>Tested By</b>	Hanwen Xu

Rg	Frequency [MHz]	QPK Level [dB $\mu$ V]	QPK Limit [dB $\mu$ V]	QPK Margin [dB]	CAV Level [dB $\mu$ V]	CAV AVG Limit [dB $\mu$ V]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.177	47.83	64.63	16.80	33.63	54.63	21.00	12.22	N	9.000
1	0.528	46.89	56.00	9.11	30.77	46.00	15.23	12.77	N	9.000
1	2.265	27.27	56.00	28.73	16.33	46.00	29.67	12.74	N	9.000
1	4.965	17.05	56.00	38.95	11.04	46.00	34.96	12.76	N	9.000
1	15.297	40.00	60.00	20.00	25.62	50.00	24.38	12.83	N	9.000
1	29.666	13.69	60.00	46.31	7.05	50.00	42.95	12.88	N	9.000

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Limit value- Emission level
4. Correction factor = Insertion loss + Cable loss + Attenuate
5. Emission Level = Correction Factor + Reading Value.





## 2.2 RADIATED EMISSION MEASUREMENT

### 2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

#### TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 3 meters (dB $\mu$ V/m)		
Frequencies (MHz)	FCC 15B Class A	FCC 15B Class B
30-88	49	40
88-216	53.5	43.5
216-960	56	46
960-1000	59.5	54
Above 1000	Avg: 59.5 Peak: 79.5	Avg: 54 Peak: 74

#### Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40GHz, whichever is lower

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB $\mu$ V/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
4. QP detector shall be applied if not specified.



## 2.2.2 TEST INSTRUMENTS

### Frequency range below 1GHz

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.24,22	Nov.23,25
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.27,24	Feb.26,26
EMI Test Receiver	R&S	ESW44	101973	Feb.24,24	Feb.23,26
Measurement Software	R&S	ELEKTRA	N/A	N/A	N/A
Pre-Amplifier	R&S	SCU08F1	101028	Sep.15,24	Sep.14,26
CABLE	R&S	W13.01	N/A	Oct.25,24	Apr.24,25
CABLE	R&S	W13.02	N/A	Oct.25,24	Apr.24,25
CABLE	R&S	W12.14	N/A	Oct.25,24	Apr.24,25

### Frequency range above 1GHz

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.24,22	Nov.23,25
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.21,24	Aug.20,26
EMI Test Receiver	R&S	ESW44	101973	Feb.24,24	Feb.23,26
Pre-Amplifier	R&S	SCU08F1	101028	Sep.15,24	Sep.14,26
Measurement Software	R&S	ELEKTRA	N/A	N/A	N/A
CABLE	R&S	W13.01	N/A	Oct.25,24	Apr.24,25
CABLE	R&S	W13.02	N/A	Oct.25,24	Apr.24,25
CABLE	R&S	W12.14	N/A	Oct.25,24	Apr.24,25

**NOTE:** 1. The calibration interval of the above test instruments is 6 months or 24 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRT/CHINA and NIM/CHINA.

2. The test was performed in 3m Chamber.



## 2.2.3 TEST PROCEDURE

### <Frequency Range below 1GHz>

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. 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 height of antenna is varied from 1 meter to 4 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 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

#### NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier).
5. Margin value = Limit value -Emission level.



## <Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber room. 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 height of antenna 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. The bore sight should be used during the test above 1GHz.
- 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 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 and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz

### NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth of test receiver/spectrum analyzer is 1Hz for Average detection (AV) at frequency above 1GHz.
3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
4. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
6. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier)
7. Margin value = Limit value- Emission level.

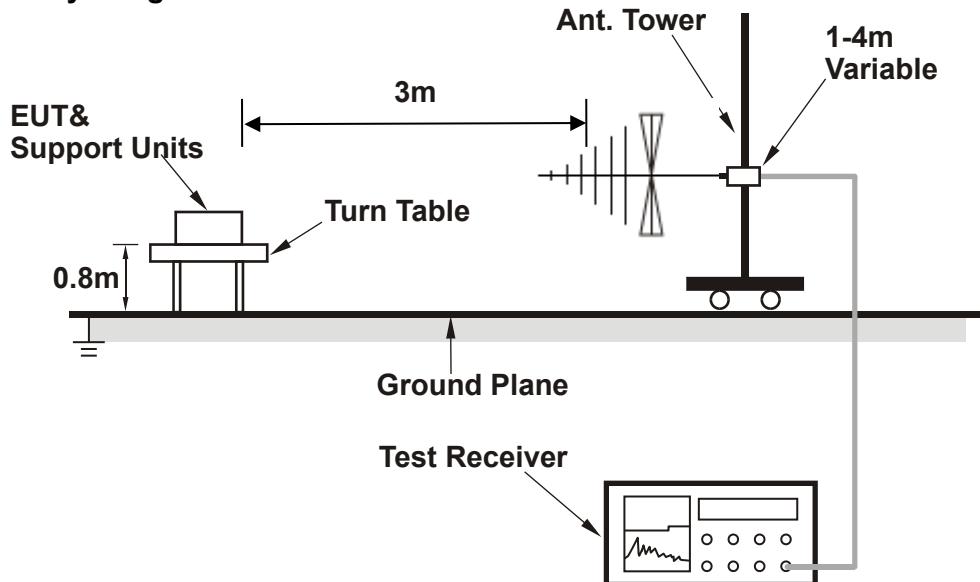
## 2.2.4 DEVIATION FROM TEST STANDARD

No deviation.

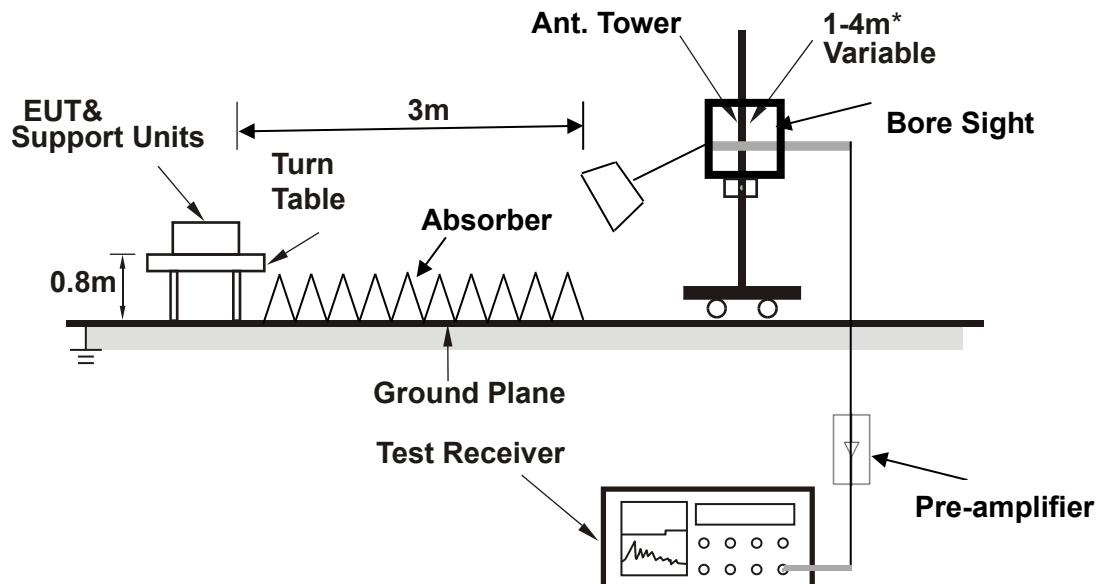


## 2.2.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



**Note:** Above 1G is a directional antenna depends on the EUT height and the antenna 3dB bandwidth both, refer to section 7.3 of CISPR 16-2-3.

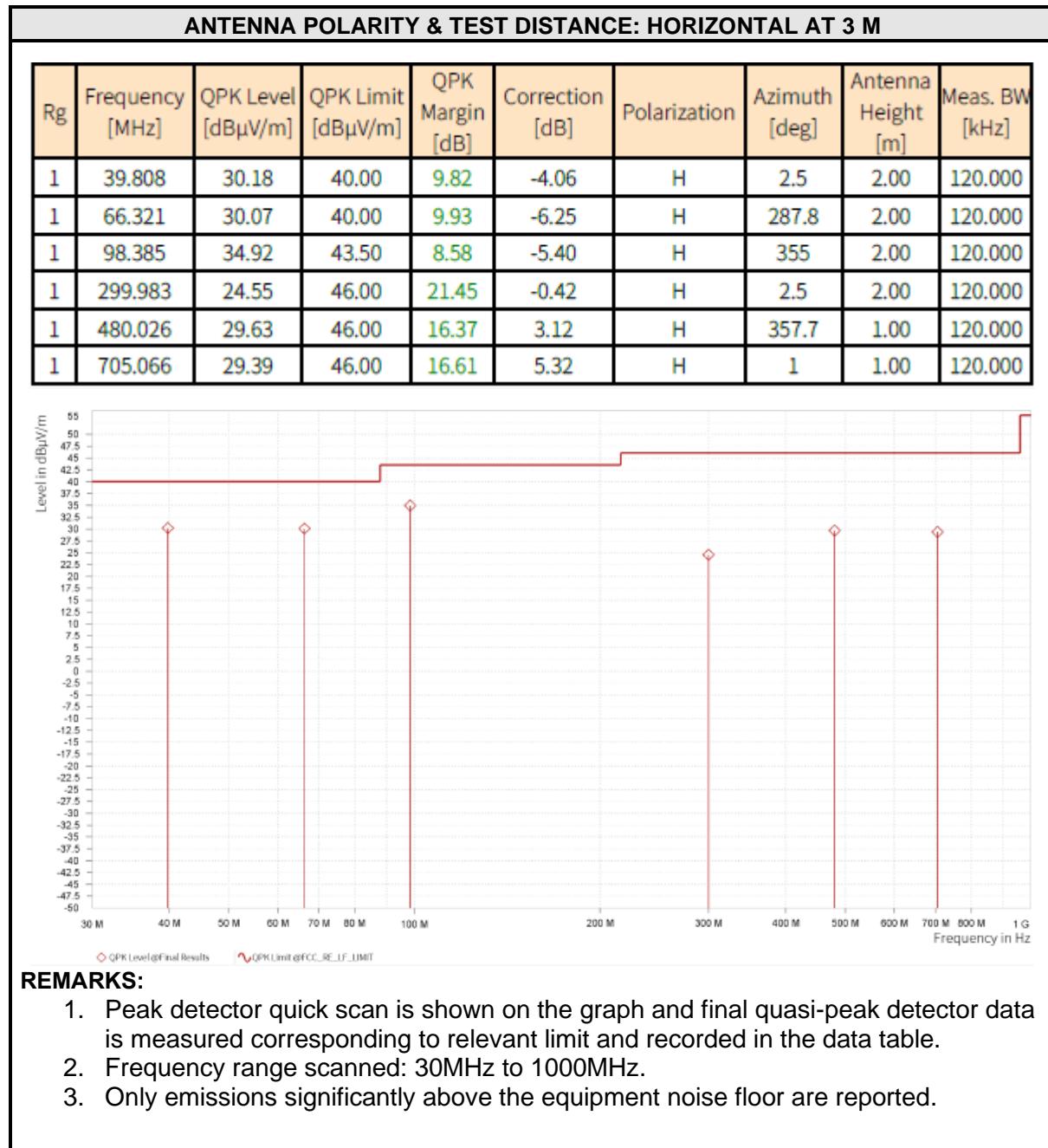
## 2.2.6 EUT OPERATING CONDITIONS

Same as item 2.1.6.



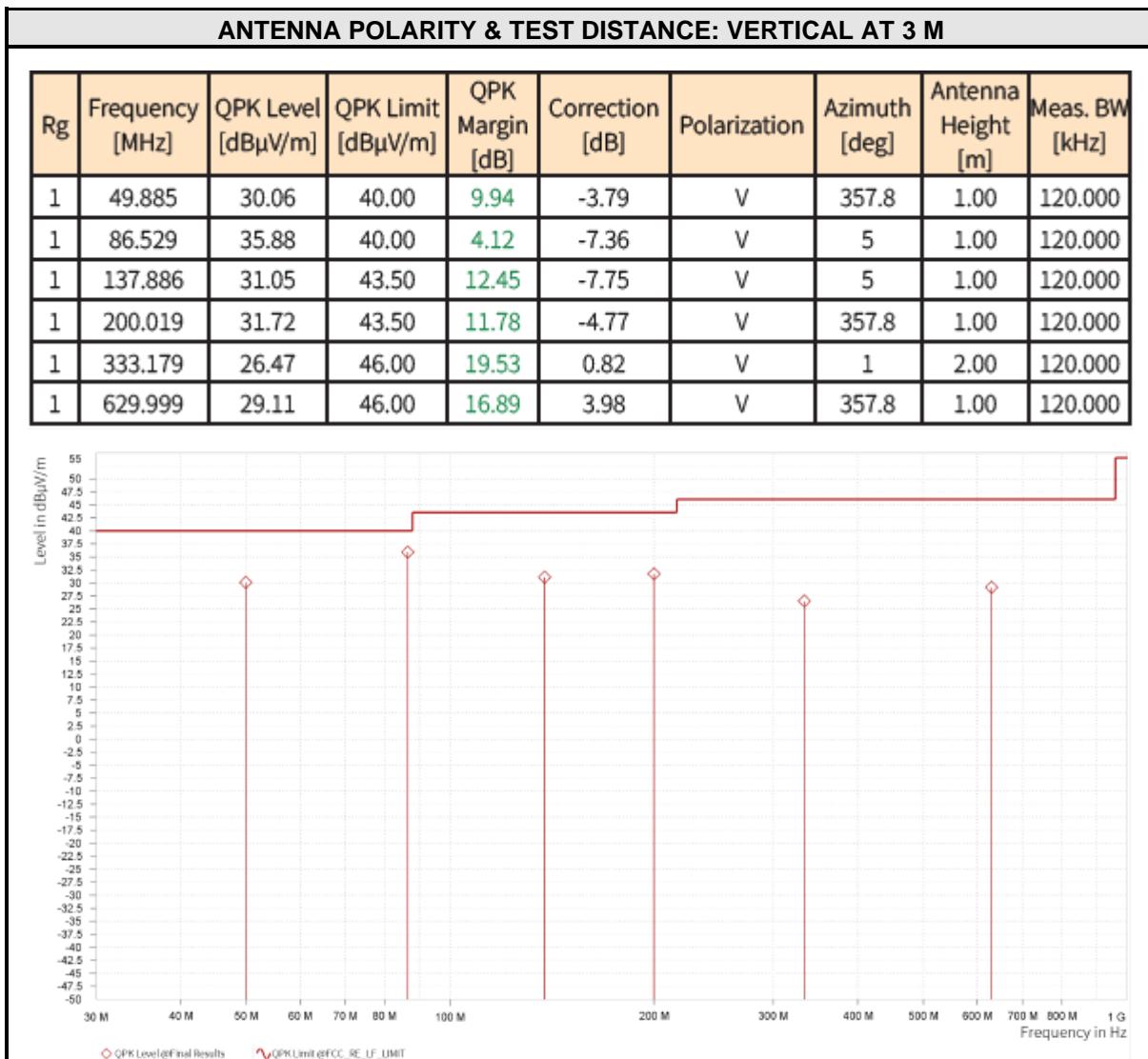
## 2.2.7 TEST RESULTS

Test Voltage	Input 120 Vac, 60 Hz	Frequency Range	30-1000 MHz
Environmental Conditions	23deg. C, 70%RH	Detector Function & Resolution Bandwidth	Quasi-Peak, 120 kHz
Tested By	Hanwen Xu		





<b>Test Voltage</b>	Input 120 Vac, 60 Hz	<b>Frequency Range</b>	30-1000 MHz
<b>Environmental Conditions</b>	23deg. C, 70 %RH	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak, 120 kHz
<b>Tested By</b>	Hanwen Xu		

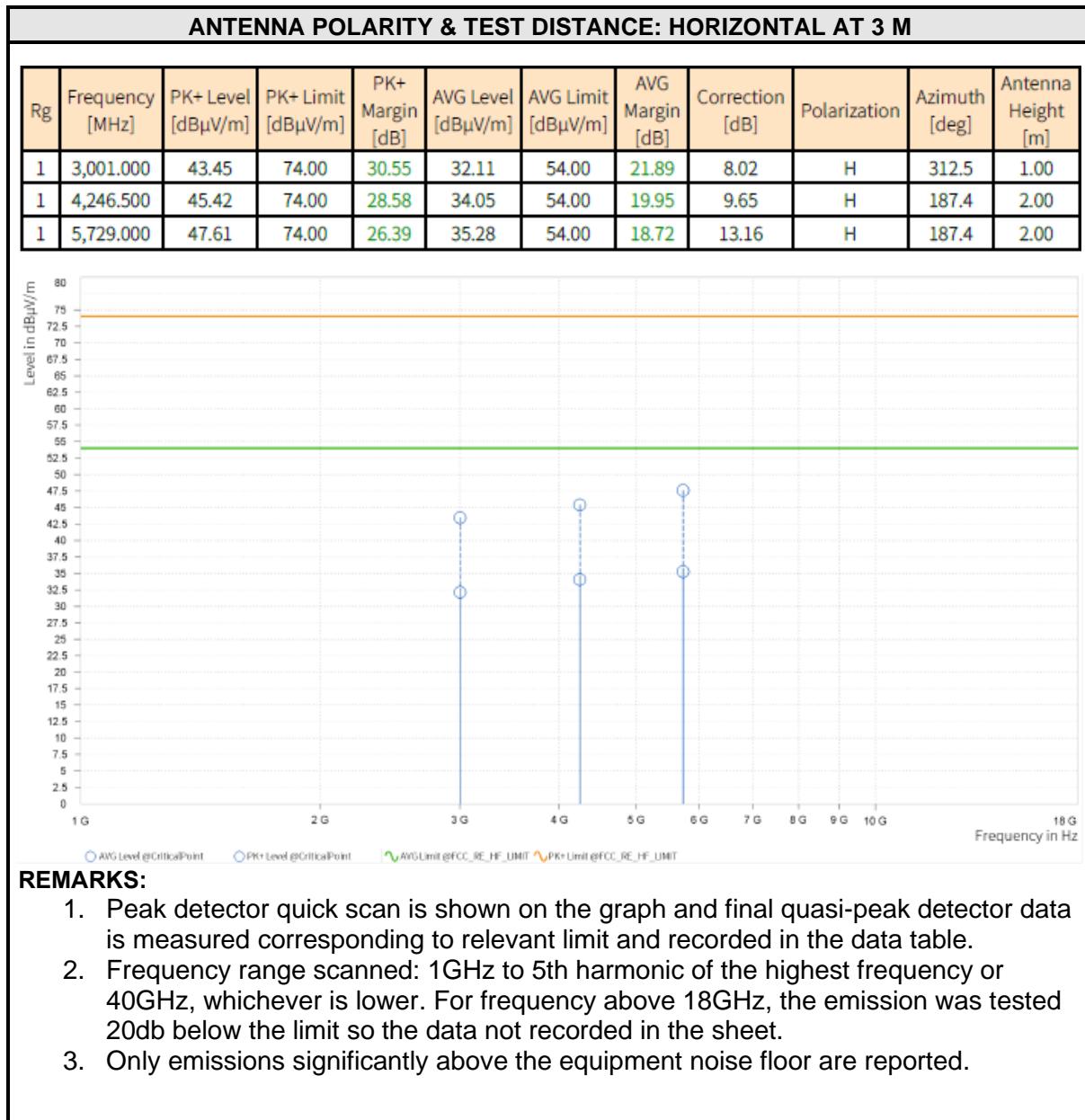


**REMARKS:**

1. Peak detector quick scan is shown on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Frequency range scanned: 30MHz to 1000MHz.
3. Only emissions significantly above the equipment noise floor are reported.

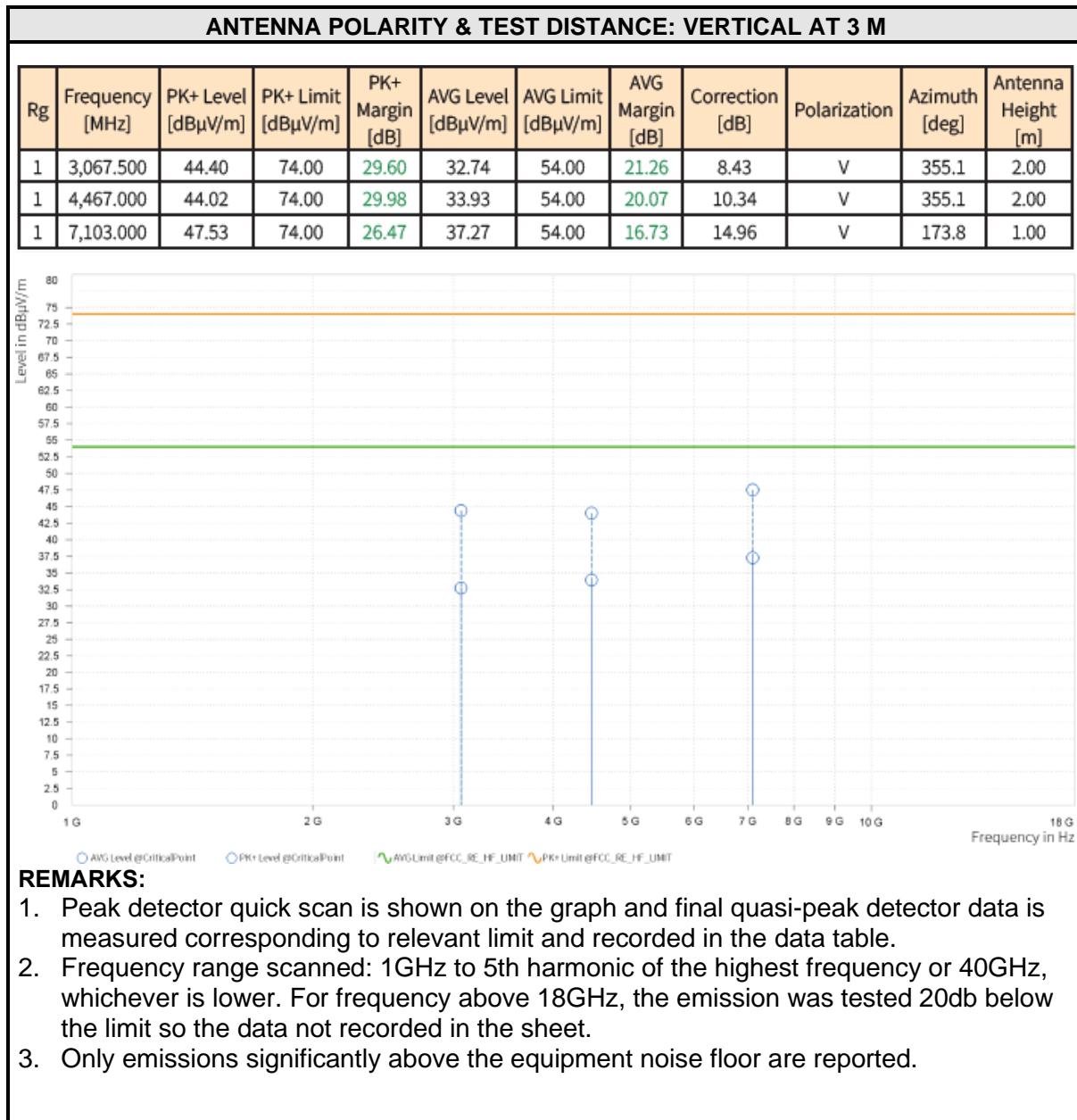


<b>Test Voltage</b>	Input 120 Vac, 60 Hz	<b>Frequency Range</b>	1-18 GHz
<b>Environmental Conditions</b>	23deg. C, 70 %RH	<b>Detector Function &amp; Resolution Bandwidth</b>	Peak/Average, 1 MHz
<b>Tested By</b>	Hanwen Xu		





<b>Test Voltage</b>	Input 120 Vac, 60 Hz	<b>Frequency Range</b>	1-18 GHz
<b>Environmental Conditions</b>	23deg. C, 70 %RH	<b>Detector Function &amp; Resolution Bandwidth</b>	Peak/Average, 1 MHz
<b>Tested By</b>	Hanwen Xu		





**BUREAU  
VERITAS** Test Report No.: PSU-NQN2412090210EM01

### **3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications were made to the EUT by the lab during the test.

**---END---**