

EMC TEST REPORT

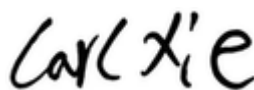
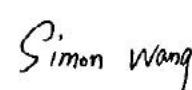
Applicant:	Juniper Systems, Inc.
Address:	1132 W 1700 N Logan, UT 84321 USA

Manufacturer or Supplier:	Juniper Systems, Inc.
Address:	1132 W 1700 N Logan, UT 84321 USA
Product:	ALTA
Brand Name:	Juniper Systems
Model Name:	ALT1 / FC-8000 / SHC8000
FCC ID:	VSFALT1
Date of tests:	Dec. 30, 2025 - Jul. 10, 2026

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 Carl Xie Engineer / Mobile Department	Approved by Simon Wang Manager / Mobile Department
	
Date: Jul. 10, 2026	Date: Jul. 10, 2026

Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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Test Report No.: EMC260714B002

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
EMC260714B002	Original release	Jul. 10, 2026

1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	ALTA	
BRAND NAME	Juniper Systems	
MODEL NAME	ALT1 / FC-8000 / SHC8000	
NOMINAL VOLTAGE	3.7Vdc	
MODULATION TYPE	BT_LE	GFSK
	Bluetooth	GFSK, $\pi/4$ -DQPSK, 8DPSK
	NFC	ASK
	WLAN	DSSS, OFDM, OFDMA
	LTE	QPSK/16QAM/64QAM
	5G NR	DFT-s-OFDM($\pi/2$ BPSK,QPSK,16QAM,64QAM,256QAM); CP-OFDM(QPSK,16QAM,64QAM,256QAM);
OPERATING FREQUENCY	Bluetooth/BT_LE	2402MHz ~ 2480MHz
	NFC	13.56 MHz
	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20)/ax(HE20)/be(EHT20)/be(EHT20)_RU26/be(EHT20)_RU52/be(EHT20)_RU106/be(EHT20)_MRU26+106/802.11n(HT40)/ax(HE40)/be(EHT40)/be(EHT40)_MRU26+106 5180 ~ 5240MHz, 5260 ~ 5320 MHz, 5500 ~ 5720MHz, 5745 ~ 5825 MHz for 802.11a,802.11n/ac/ax/be(20MHz)/be(20MHz)_MRU26+106,11ax20(RU26,52,106), 802.11n/ac/ax/be (40MHz), 802.11ac/ax/be (80MHz) 5180 ~ 5240MHz,5500 ~ 5720MHz for 802.11ac/ax/be (160MHz) 5925 ~ 6425MHz, 6425 ~ 6525MHz, 6525 ~ 6825MHz, 6875 ~ 7125MHz for 802.11ax(HE20/40/80/160)/802.11be(EHT20/40,80,160)/802.11be(EHT20)_RU53/802.11be(EHT40)_RU61/802.11be(EHT80)_RU65/802.11be(EHT160)_RU67/802.11be(EHT20)_MRU106+26/802.11be(EHT80)_MRU484+242/802.11be(EHT160)_MRU996+484 5925 ~ 6425MHz, 6525 ~ 6825MHz for

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		802.11be(EHT320)/802.11be(EHT320)_MRU3*996+484
	LTE	1850.7MHz ~ 1909.3MHz (FOR LTE Band2) 1710.7MHz ~ 1754.3MHz (FOR LTE Band4) 824.7MHz ~ 848.3MHz (FOR LTE Band5) 2502.5MHz ~ 2567.5MHz (FOR LTE Band7) 699.7MHz ~ 715.3MHz (FOR LTE Band12) 779.5MHz ~ 784.5MHz (FOR LTE Band13) 832.5MHz ~ 842.5MHz (FOR LTE Band19) 1850.7MHz ~ 1914.3MHz (FOR LTE Band25) 814.7MHz ~ 848.3MHz (FOR LTE Band26) 2307.5MHz ~ 2312.5MHz (FOR LTE Band30) 2572.5MHz ~ 2617.5MHz (FOR LTE Band38) 2498.5MHz ~ 2687.5MHz (FOR LTE Band41) 3452.5MHz ~ 3597.5MHz (FOR LTE Band42) 3552.5MHz ~ 3697.5MHz (FOR LTE Band48) 1710.7MHz ~ 1779.3MHz (FOR LTE Band66) 665.5MHz ~ 695.5MHz (FOR LTE Band71) 896.7MHz ~ 900.3MHz (FOR LTE Band106) LTE CA: UL&DL: CA_12A-25A CA_12A-30A CA_12A-30A-66A CA_12A-66A CA_12A-66A-66A CA_12A-66C CA_13A-66A CA_13A-66A-66A CA_14A-30A CA_14A-30A-66A CA_14A-30A-66A-66A CA_14A-66A CA_14A-66A-66A CA_19A-42A CA_19A-42C CA_1A-20A CA_25A-26A CA_28A-41A CA_28A-41C CA_28A-42A CA_28A-42C CA_2A-12A CA_2A-12A-30A

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		CA_2A-12A-66A CA_2A-12A-66A-66A CA_2A-12A-66C CA_2A-12B CA_2A-13A CA_2A-13A-48A CA_2A-13A-48C CA_2A-13A-66A CA_2A-13A-66A-66A CA_2A-14A CA_2A-14A-30A CA_2A-14A-66A CA_2A-14A-66A-66A CA_2A-28A CA_2A-30A CA_2A-30A-66A CA_2A-30A-66A-66A CA_2A-4A CA_2A-4A-12A CA_2A-4A-13A CA_2A-4A-29A CA_2A-4A-4A CA_2A-4A-4A-5A CA_2A-4A-5A CA_2A-4A-71A CA_2A-4A-7A-7A CA_2A-5A CA_2A-5A-30A CA_2A-5A-48A CA_2A-5A-48C CA_2A-5A-66A CA_2A-5A-66A-66A CA_2A-5B CA_2A-5B-30A CA_2A-5B-66A CA_2A-66A CA_2A-66A-66A CA_2A-66A-66A-66A CA_2A-66A-66A-71A CA_2A-66A-71A CA_2A-66C CA_2A-66C-71A CA_2A-71A CA_2A-7A CA_2A-7A-12A
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Test Report No.: EMC260714B002

		CA_2A-7A-66A CA_2A-7A-7A CA_2A-7C CA_2C-12A-30A CA_2C-5A CA_2C-5A-30A CA_2C-66A CA_2C-66A-66A CA_30A-66A CA_30A-66A-66A CA_4A-12A CA_4A-12A-30A CA_4A-12B CA_4A-13A CA_4A-28A CA_4A-30A CA_4A-5A-30A CA_4A-71A CA_4A-7A CA_4A-7A-12A CA_4A-7A-7A CA_4A-7C CA_5A-25A CA_5A-30A CA_5A-30A-66A CA_5A-66A CA_5A-66A-66A CA_5A-7A CA_5B-30A CA_5B-30A-66A CA_5B-66A CA_5B-66A-66A CA_66A-71A CA_66C-71A CA_7A-12A CA_7A-20A CA_7A-28A CA_7A-66A CA_7A-8A CA_8A-42A CA_8A-42C DL Only: CA_12B CA_13A-48A
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Test Report No.: EMC260714B002

		CA_13A-48A-66A
		CA_13A-48C
		CA_13A-48C-66A
		CA_13A-48D
		CA_20A-40A
		CA_25A-25A
		CA_25A-41A
		CA_26A-41A
		CA_26A-41C
		CA_28A-40D
		CA_29A-30A
		CA_29A-30A-66A
		CA_29A-66A
		CA_29A-66A-66A
		CA_2A-29A
		CA_2A-29A-30A
		CA_2A-29A-66A
		CA_2A-2A
		CA_2A-2A-12A
		CA_2A-2A-12A-30A
		CA_2A-2A-12A-66A
		CA_2A-2A-12B
		CA_2A-2A-13A
		CA_2A-2A-13A-66A
		CA_2A-2A-14A
		CA_2A-2A-14A-30A
		CA_2A-2A-14A-66A
		CA_2A-2A-29A
		CA_2A-2A-29A-30A
		CA_2A-2A-30A
		CA_2A-2A-4A
		CA_2A-2A-4A-12A
		CA_2A-2A-4A-4A
		CA_2A-2A-4A-5A
		CA_2A-2A-4A-71A
		CA_2A-2A-5A
		CA_2A-2A-5A-30A
		CA_2A-2A-5A-66A
		CA_2A-2A-66A
		CA_2A-2A-66A-66A
		CA_2A-2A-66A-71A
		CA_2A-2A-66C
		CA_2A-2A-71A
		CA_2A-2A-7A
		CA_2A-2A-7A-66A

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		CA_2A-48A CA_2A-48A-48A CA_2A-48A-66A CA_2A-48C CA_2A-48C-66A CA_2A-48D CA_2C CA_2C-29A CA_2C-29A-30A CA_38C CA_40C CA_40D CA_40E CA_41A-41A CA_41A-41C CA_41A-42A CA_41A-42C CA_41C CA_41D CA_42A-42A CA_42A-42C CA_42C CA_42D CA_42E CA_48A-48A CA_48A-48A-66A CA_48A-66A CA_48A-66A-66A CA_48C CA_48C-66A CA_48C-66A-66A CA_48D CA_48D-66A CA_48E CA_4A-29A CA_4A-29A-30A CA_4A-48A CA_4A-48C CA_4A-48D CA_4A-4A CA_4A-4A-12A CA_4A-4A-12A-30A CA_4A-4A-13A CA_4A-4A-29A-30A CA_4A-4A-30A
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Test Report No.: EMC260714B002

		CA_4A-4A-5A CA_4A-4A-5A-30A CA_4A-4A-71A CA_4A-4A-7A CA_4A-5A CA_5A-40A CA_5A-40C CA_5A-48A CA_5A-48A-66A CA_5A-48C CA_5A-48C-66A CA_5A-48D CA_5A-5A CA_5A-5A-66A CA_5B CA_66A-66A CA_66A-66A-66A CA_66A-66A-71A CA_66A-66C CA_66B CA_66C CA_7A-7A CA_7B CA_7C
	5G NR	SA/NSA: n2 (1852.5MHz ~ 1907.5MHz) n5(826.5MHz ~ 846.5MHz) n7(2502.5MHz ~ 2567.5MHz) n25(1852.5MHz ~ 1912.5MHz) n30(2307.5MHz ~ 2312.5MHz) n41(2501.01 ~ 2685MHz) n66(1712.5 ~ 1777.5MHz) n71(665.5 ~ 695.5MHz) n77(Part27Q)(3455.01 ~ 3544.98MHz) n77(Part27O)(3705 ~ 3974.97MHz) n78(Part27Q)(3455.01 ~ 3544.98MHz) NR ENDC: DC_12A-30A_n2A DC_12A-66A-66A_n2A DC_12A-66A_n2A DC_12A_n2A DC_13A-48A_n2A DC_13A-66A-66A_n2A DC_13A-66A_n2A

		DC_13A_n2A DC_14A-30A_n2A DC_14A-66A-66A_n2A DC_14A-66A_n2A DC_14A_n2A DC_29A-30A_n2A DC_29A-66A-66A_n2A DC_29A-66A_n2A DC_2A-12A_n2A DC_2A-13A_n2A DC_2A-14A_n2A DC_2A-30A_n2A DC_2A-5A_n2A DC_2A-66A-66A_n2A DC_2A-66A_n2A DC_30A-66A-66A_n2A DC_30A-66A_n2A DC_30A_n2A DC_48A-66A_n2A DC_48C-66A_n2A DC_5A-30A_n2A DC_5A-66A-66A_n2A DC_5A-66A_n2A DC_5A_n2A DC_66A-66A-66A_n2A DC_66A-66A_n2A DC_66A_n2A DC_71A_n2A DC_2A-2A-30A_n5A DC_2A-2A-66A_n5A DC_2A-2A_n5A DC_2A-30A_n5A DC_2A-48A_n5A DC_2A-48C_n5A DC_2A-66A-66A_n5A DC_2A-66A_n5A DC_2A_n5A DC_30A-66A-66A_n5A DC_30A-66A_n5A DC_30A_n5A DC_48A-66A_n5A DC_48A_n5A DC_48C-66A_n5A DC_66A-66A-66A_n5A DC_66A-66A_n5A DC_66A_n5A DC_7A_n5A DC_12A-30A_n66A
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Test Report No.: EMC260714B002

		DC_12A-66A_n66A DC_12A_n66A DC_13A-48A_n66A DC_13A-66A_n66A DC_13A_n66A DC_14A-30A_n66A DC_14A-66A_n66A DC_14A_n66A DC_29A-30A_n66A DC_2A-12A_n66A DC_2A-13A_n66A DC_2A-14A_n66A DC_2A-29A_n66A DC_2A-2A-12A_n66A DC_2A-2A-14A_n66A DC_2A-2A-30A_n66A DC_2A-2A_n66A DC_2A-30A_n66A DC_2A-5A_n66A DC_2A-66A_n66A DC_2A_n66A DC_30A-66A_n66A DC_30A_n66A DC_48A_n66A DC_5A_n66A DC_71A_n66A DC_7A_n66A DC_7C_n66A DC_2A-2A_n71A DC_2A-66A_n71A DC_2A_n71A DC_66A_n71A DC_66C_n71A DC_12A-30A_n77A DC_12A-66A-66A_n77A DC_12A-66A_n77A DC_12A_n77A DC_13A-48A_n77A DC_13A-48C_n77A DC_13A-66A-66A_n77A DC_13A-66A_n77A DC_13A_n77A DC_14A-30A_n77A DC_14A-66A-66A_n77A DC_14A-66A_n77A DC_14A_n77A DC_29A-30A_n77A DC_29A-66A-66A_n77A
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Test Report No.: EMC260714B002

		DC_29A-66A_n77A DC_2A-12A_n77A DC_2A-13A_n77A DC_2A-14A_n77A DC_2A-29A_n77A DC_2A-2A-12A_n77A DC_2A-2A-13A_n77A DC_2A-2A-14A_n77A DC_2A-2A-29A_n77A DC_2A-2A-30A_n77A DC_2A-2A-5A_n77A DC_2A-2A-66A_n77A DC_2A-2A_n77A DC_2A-30A_n77A DC_2A-48A_n77A DC_2A-48C_n77A DC_2A-5A_n77A DC_2A-66A-66A_n77A DC_2A-66A_n77A DC_2A_n77A DC_30A-66A-66A_n77A DC_30A-66A_n77A DC_30A_n77A DC_3A-66A_n77A DC_41A_n77A DC_48A-66A_n77A DC_48C-66A_n77A DC_5A-30A_n77A DC_5A-48A_n77A DC_5A-48C_n77A DC_5A-66A-66A_n77A DC_5A-66A_n77A DC_5A_n77A DC_66A-66A-66A_n77A DC_66A-66A_n77A DC_66A_n77A DC_12A_n78A DC_2A_n78A DC_38A_n78A DC_40A_n78A DC_40C_n78A DC_41A_n78A DC_5A_n78A DC_66A_n78A DC_7A_n78A DC_7C_n78A DC_41A_n79A DC_2A-(n)5AA
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Test Report No.: EMC260714B002

		DC_2A-(n)71AA DC_2A-2A-(n)5AA DC_2A-66A-n71A DC_30A-(n)5AA DC_66A-(n)5AA DC_66A-(n)71AA DC_66A-66A-(n)5AA NR SA CA: UL&DL: CA_n25A-n41A CA_n25A-n41A-n66A CA_n25A-n41A-n71A CA_n25A-n48A CA_n25A-n48A-n66A CA_n25A-n66(2A) CA_n25A-n66A CA_n25A-n66A-n71A CA_n25A-n71(2A) CA_n25A-n71A CA_n25A-n71B CA_n25A-n77A CA_n28A-n41A CA_n28A-n79A CA_n29A-n66(2A) CA_n29A-n66A CA_n2A-n30A CA_n2A-n30A-n66A CA_n2A-n48A CA_n2A-n48A-n66A CA_n2A-n5A CA_n2A-n5A-n30A CA_n2A-n5A-n66A CA_n2A-n66(2A) CA_n2A-n66A CA_n2A-n77A CA_n30A-n66(2A) CA_n30A-n66A CA_n30A-n77A CA_n41A-n66(2A) CA_n41A-n66A CA_n41A-n66A-n71A CA_n41A-n71(2A) CA_n41A-n71A CA_n41A-n71B CA_n41A-n77A CA_n48A-n66A CA_n48A-n66A-n71A
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		CA_n48A-n71(2A) CA_n48A-n71A CA_n5A-n30A CA_n5A-n30A-n66A CA_n5A-n48A CA_n5A-n48A-n66A CA_n5A-n66(2A) CA_n5A-n66A CA_n5A-n77A CA_n5B-n66A CA_n5B-n77A CA_n66A-n71(2A) CA_n66A-n71A CA_n66A-n71B CA_n66A-n77A CA_n71A-n77A CA_n71B-n77A CA_n7A-n78A CA_n2(2A) CA_n2(2A)-n30A CA_n2(2A)-n5A CA_n2(2A)-n66A CA_n2(2A)-n77A CA_n25(2A) CA_n25(2A)-n41A CA_n25(2A)-n66A CA_n25(2A)-n71A CA_n25(2A)-n77A CA_n25(3A) CA_n25A-n66A-n77A CA_n25A-n71A-n77A CA_n2A-n30A-n77A CA_n2A-n5A-n48A CA_n2A-n5A-n77A CA_n2A-n5B CA_n2A-n66A-n77A CA_n30A-n66A-n77A CA_n41(2A) CA_n41A-n48A CA_n41C CA_n48(2A) CA_n48A-n77A CA_n48B CA_n48C CA_n5A-n30A-n77A CA_n5A-n66A-n77A CA_n5B CA_n66(2A)
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		CA_n66(2A)-n71A CA_n66(2A)-n77A CA_n66(3A) CA_n66A-n71A-n77A CA_n66B CA_n71(2A) CA_n71(2A)-n77A CA_n71B CA_n77(2A) CA_n77C
HW VERSION	DVT2	
SW VERSION	JP_W.00.00.0128.T1_USERDEBUG	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
ACCESSORY DEVICES	Refer to note as below	

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in the test report.

3. List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery 1	NA	Fullymax Battery Co., Ltd.	FBC442760	3.7Vdc, 700mAh
Battery 2	NA	Fullymax Battery Co., Ltd.	FBC6570106	3.8Vdc, 5700mAh
Battery 3	NA	Fullymax Battery Co., Ltd.	FBC8570106	3.7Vdc, 15000mAh
AC Adapter 1	Juniper	SHENZHEN MERRYKING ELECTRONICS CO.,LTD.	MK-P301EXC	I/P: 100-240Vac, 800mA, O/P: 12Vdc,2500mA
USB Cable 1	CONSHARE	CONSHARE	80.10.320002	1.0 meter

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:

BOOMWAVE TEST (SHENZHEN) CO., LTD.

Lab Address:

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th Road, Chiwan Community, Zhaoshang St
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Accredited Test Lab Cert 7607.01

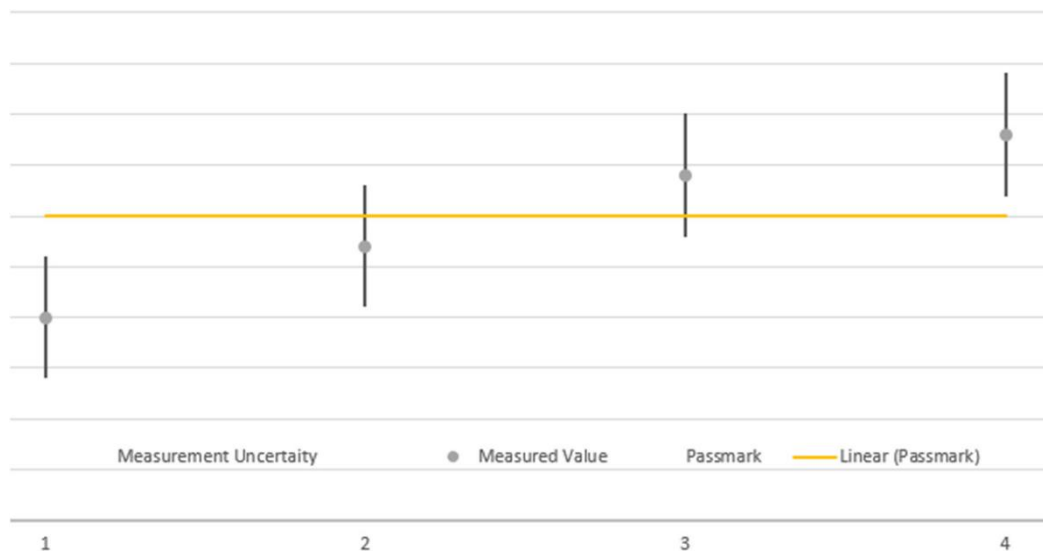
The FCC Site Registration No. is 646781; The Designation No. is CN1429.

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	±2.70dB
Radiated emissions	30MHz~1GHz	±4.98dB
	1GHz ~6GHz	±4.70dB
	6GHz ~18GHz	±4.60dB
	18GHz ~40GHz	±4.12dB



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
Radiated emission test	
1	LTE B5 Idle + Adapter + USB cable + SIM + USB Port2 + SD + sample1 + Front Camera On
2	LTE B12 Idle + Adapter + USB cable + SIM + USB Port2 + SD + sample1 + Back Camera On
3	LTE B13 Idle + Adapter + USB cable + SIM + USB Port2 + SD + sample1 + Flashlight ON
4	LTE B14 Idle + Adapter + USB cable + SIM + USB Port2 + SD + sample1 + MPG4
5	LTE B26 Idle + Adapter + USB cable + SIM + USB Port2 + SD + sample1 + NFC
6	LTE B71 Idle + USB Link + Data Transmission + USB cable + NOTE BOOK to SD + SD + sample1 + SIM
7	LTE B106 Idle + USB Link + Data Transmission + USB cable + SD to NOTE BOOK + SD + sample1 + SIM
8	N5 Idle + USB Link + Data Transmission + USB cable + NOTE BOOK to EUT + SD + sample1 + SIM
9	N71 Idle + Powered by battery + USB Port2 + Earphone(Type C) + SD + sample1 + SIM
10	LTE B5 Idle + SIM + USB Port2 + SD + sample1 + DP
11	worse of 1-5 (mod2) + USB Port1
12	worse of 1-11 (mod11) + sample2(battery3)

Test Mode	Test Condition
Conducted emission test	
1	LTE B5 Idle + Adapter + USB cable + SIM + USB Port2 + SD + sample1 + Front Camera On
2	LTE B12 Idle + Adapter + USB cable + SIM + USB Port2 + SD + sample1 + Back Camera On
3	LTE B13 Idle + Adapter + USB cable + SIM + USB Port2 + SD + sample1 + Flashlight ON
4	LTE B14 Idle + Adapter + USB cable + SIM + USB Port2 + SD + sample1 + MPG4
5	LTE B26 Idle + Adapter + USB cable + SIM + USB Port2 + SD + sample1 + NFC
6	LTE B71 Idle + USB Link + Data Transmission + USB cable + NOTE BOOK to SD + SD + sample1 + SIM
7	LTE B106 Idle + USB Link + Data Transmission + USB cable + SD to NOTE BOOK + SD + sample1 + SIM
8	N5 Idle + USB Link + Data Transmission + USB cable + NOTE BOOK to EUT + SD + sample1 + SIM
9	worse of 1-5(mode5) + USB Port1
10	worse of 1-9(mode9) + sample2(battery3)

Test Report No.: EMC260714B002

NOTE:

1. For radiated emission test, Pre-scan all mode, test mode 12 was the worst case and only this mode was presented in this report
2. For conducted emission test, Pre-scan all mode, mode 10 was the worst 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.

FOR ALL TESTS

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Laptop	Lenovo	Thinkpad E14	SL10W47313	N/A
2	WIFI Router	HUAWEI	N/A	N/A	N/A
3	Adapter	N/A	N/A	N/A	N/A
4	USB Cable	N/A	N/A	N/A	N/A
5	SD Card	N/A	N/A	N/A	N/A
6	SIM	N/A	N/A	N/A	N/A

a

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	USB Line: Shielded, Detachable 1m;
2	Type-c to HDMI Line: 1m

2 EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

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

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	79	66
0.5 ~ 30	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.

2.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pulse limiter	SCHWARZBECK	VTSD 9561F	01579	2025/7/22	2026/7/21
ESR.EMI TEST RECEIVER	Rohde&SCHWARZ	ESR	101405	2025/6/30	2026/6/29
ESR.EMI TEST RECEIVER	Rohde&SCHWARZ	ESR	101405	2026/6/29	2027/6/28
LISN	SCHWARZBECK	NSLK 8127	01216	2025/8/27	2026/8/26
Cable	Tonscend	/	/	2025/7/22	2026/7/21

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

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA

2.1.3 TEST PROCEDURES

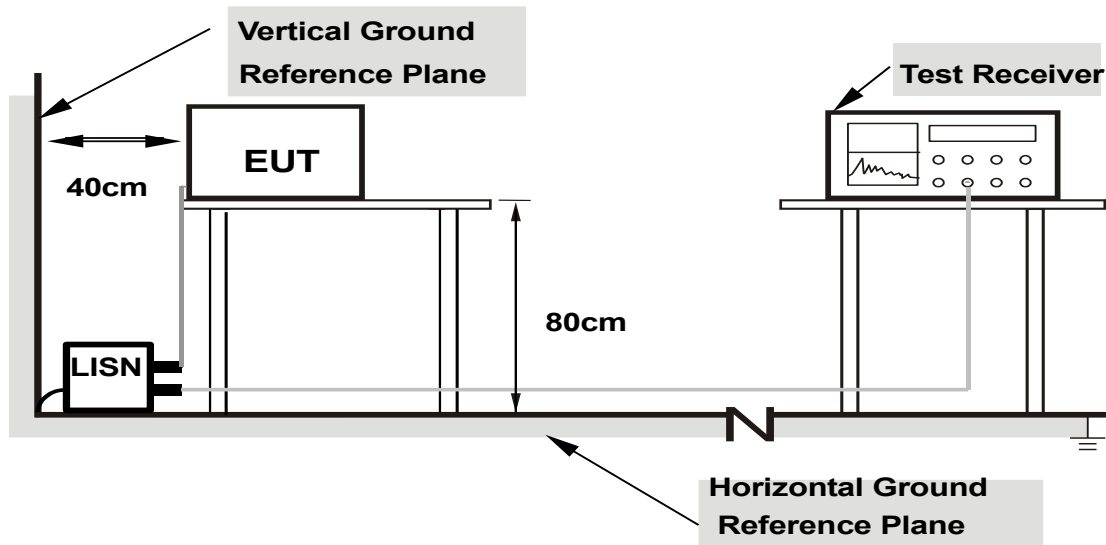
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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 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

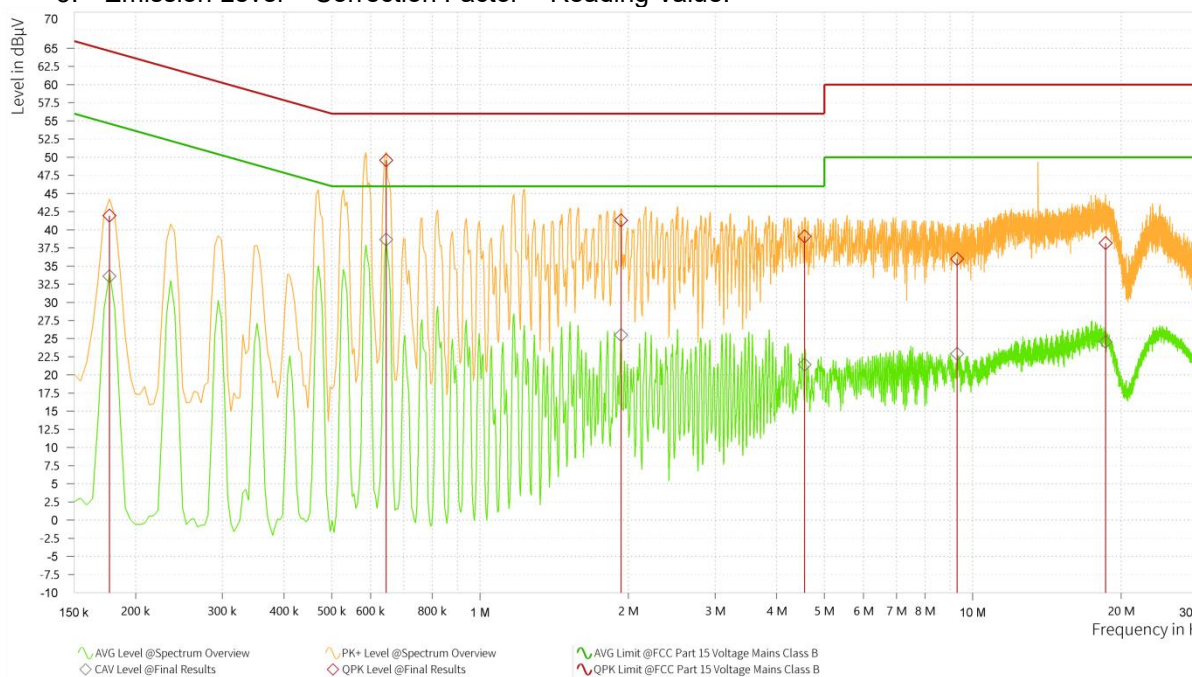
- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.

2.1.7 TEST RESULTS

TEST VOLTAGE			Input 120 Vac, 60 Hz				Detector Function & Resolution Bandwidth			Quasi-Peak (QP) / Average (AV), 9 kHz	
ENVIRONMENTAL CONDITIONS			26deg. C, 51%RH				TESTED BY			Carl Xie	
Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	CAV Level [dBμV]	CAV: AVG Limit [dBμV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	
1	0.177	41.96	64.63	22.67	33.59	54.63	21.04	9.78	L1	9.000	
1	0.645	49.58	56.00	6.42	38.64	46.00	7.36	9.75	L1	9.000	
1	1.932	41.30	56.00	14.70	25.50	46.00	20.50	9.81	L1	9.000	
1	4.560	39.10	56.00	16.90	21.44	46.00	24.56	10.09	L1	9.000	
1	9.294	35.97	60.00	24.03	22.92	50.00	27.08	10.86	L1	9.000	
1	18.609	38.14	60.00	21.86	24.56	50.00	25.44	13.19	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.



TEST VOLTAGE			Input 120 Vac, 60 Hz				DETECTOR FUNCTION & RESOLUTION BANDWIDTH			Quasi-Peak (QP) / Average (AV), 9 kHz	
ENVIRONMENTAL CONDITIONS			26deg. C, 51%RH				TESTED BY			Carl Xie	
Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	CAV Level [dBμV]	CAV: AVG Limit [dBμV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	
1	0.177	37.84	64.63	26.79	27.58	54.63	27.05	9.78	N	9.000	
1	0.596	45.62	56.00	10.38	31.85	46.00	14.15	9.75	N	9.000	
1	1.230	36.56	56.00	19.44	20.39	46.00	25.61	9.78	N	9.000	
1	3.093	35.36	56.00	20.64	22.37	46.00	23.63	9.96	N	9.000	
1	7.148	33.88	60.00	26.12	19.37	50.00	30.63	10.45	N	9.000	
1	23.568	35.83	60.00	24.17	23.39	50.00	26.61	13.68	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 μ V/m)		
Frequencies (MHz)	FCC 15B Class A	FCC 15B Class B
30-88	49.54	40
88-216	53.98	43.5
216-960	56.9	46
960-1000	60	54
Above 1000	Avg: 60 Peak: 80	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 th 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 μ V/m) = 20 log Emission level (μ V/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

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
BiConiLog Antenna	ETS-LINDGREN	3143B	161965	2025/7/17	2026/7/16
Preamplifier	Tonscend	TPA001330	806JSAPO40804251015	2025/6/30	2026/6/29
Preamplifier	Tonscend	TPA001330	806JSAPO40804251015	2026/6/29	2027/6/28
Attenuator 6DB	SHX	TS2-6-6-A	230927166	2025/6/30	2026/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927166	2026/6/29	2027/6/28
Cable 1	N/A	N/A	N/A	N/A	N/A
MXE EMI Receiver	keysight	N9038B	MY50018017	2025/6/31	2026/6/30
MXE EMI Receiver	keysight	N9038B	MY50018017	2026/6/30	2027/6/29
Active Receive Loop Antenna	SCHWARZBECK	FMZB 1519 B	00173	2025/11/29	2026/11/28

Frequency range above 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA9120D	3297	2025/9/27	2026/9/26
Horn Antenna	STEATITE	QWH-SL-18-40-K-SG QMS-00361	15433	2025/7/19	2026/7/18
Preamplifier	Tonscend	TPA184045	'AP24L8060388	2025/7/3	2026/7/2
Preamplifier	Tonscend	TPA184045	'AP24L8060388	2026/7/2	2027/7/1
Preamplifier	Tonscend	TPA011845	'AP24L8060392	2025/6/30	2026/6/29
Preamplifier	Tonscend	TPA011845	'AP24L8060392	2026/6/29	2027/6/28
MXE EMI Receiver	keysight	N9038B	MY50018017	2025/7/1	2026/6/30
MXE EMI Receiver	keysight	N9038B	MY50018017	2026/6/30	2027/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927166	2025/6/30	2026/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927166	2026/6/29	2027/6/28
HIGH pass FILTER_1-18	EWT	EWT-57-0222	EWT-57-0222	2025/6/30	2026/6/29
HIGH pass FILTER_1-18	EWT	EWT-57-0222	EWT-57-0222	2026/6/29	2027/6/28
HIGH pass FILTER_7-18	EWT	EWT-57-0223	EWT-57-0223	2025/6/30	2026/6/29
HIGH pass FILTER_7-18	EWT	EWT-57-0223	EWT-57-0223	2026/6/29	2027/6/28
HIGH pass FILTER_3-18	EWT	EWT-57-0221	EWT-57-0221	2025/6/30	2026/6/29
HIGH pass FILTER_3-18	EWT	EWT-57-0221	EWT-57-0221	2026/6/29	2027/6/28
DC~1GHz Lowpass Filter	EWT	EWT-56-0649	EWT-56-0649	2025/7/3	2026/7/2
DC~1GHz Lowpass Filter	EWT	EWT-56-0649	EWT-56-0649	2026/7/2	2027/7/1
Cable 2	N/A	N/A	N/A	2025/9/28	2026/9/27
Cable 3	N/A	N/A	N/A	2025/9/28	2026/9/27

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GREGT/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:

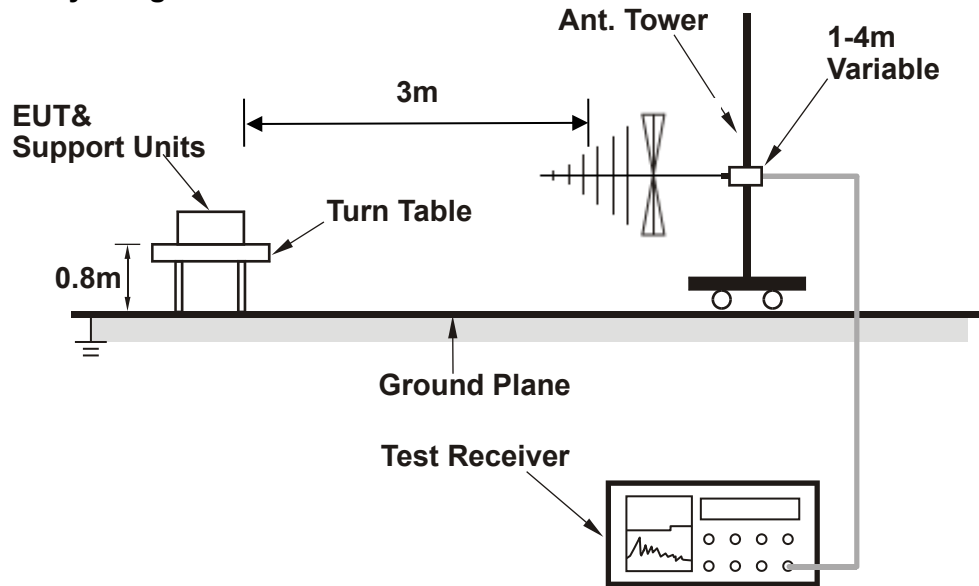
1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test 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. $\text{Emission level(dBuV/m)} = \text{Raw Value(dBuV)} + \text{Correction Factor(dB/m)}$
5. $\text{Correction Factor(dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)}$ (if the raw value not contains the amplifier);
6. $\text{Correction Factor(dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)} - \text{Amplifier Gain(dB)}$ (if the raw value contains the amplifier)
7. $\text{Margin value} = \text{Limit value} - \text{Emission level}$.

2.2.4 DEVIATION FROM TEST STANDARD

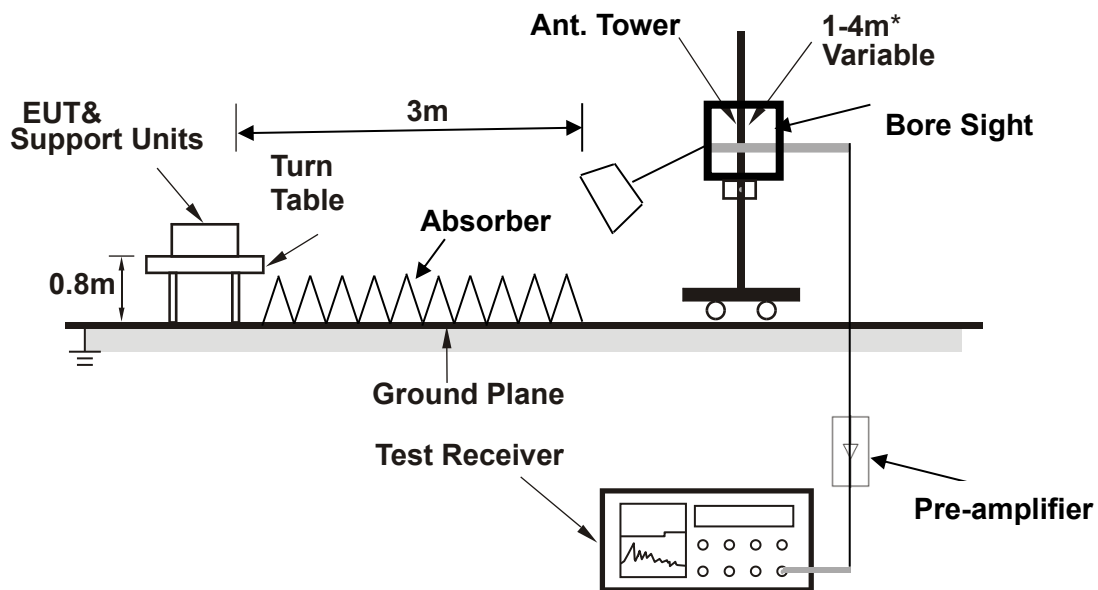
No deviation.

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

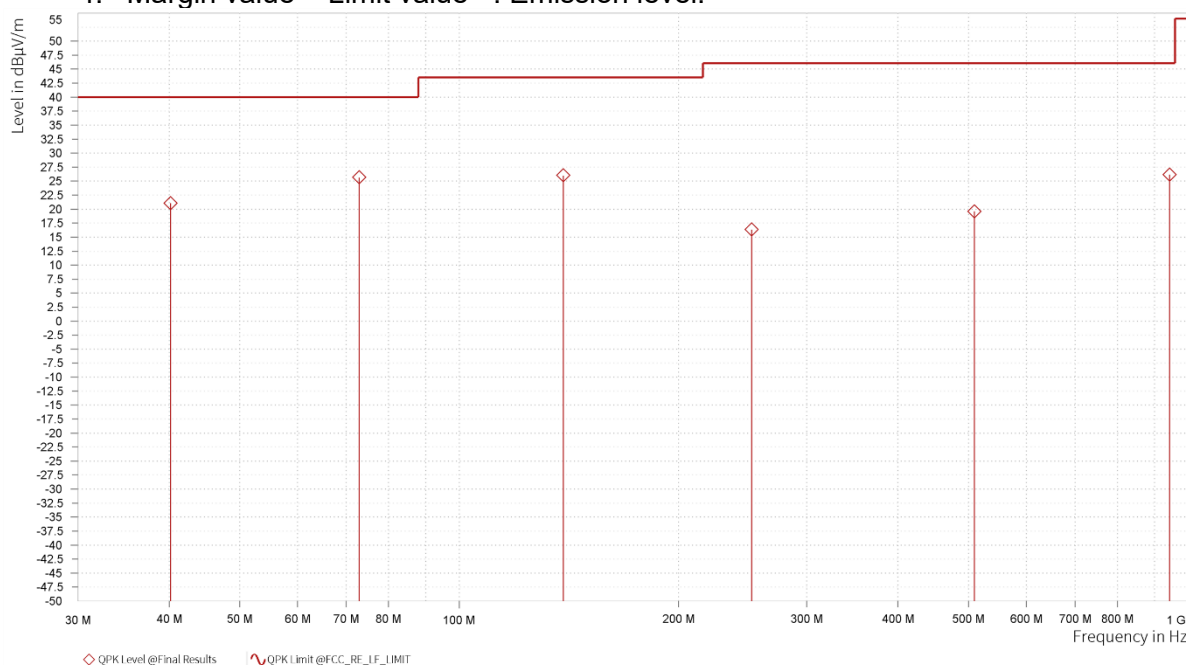
TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Carl Xie		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	40.185	21.05	40.00	18.95	-11.26	H	19.7	2.00	120.000
1	72.896	25.66	40.00	14.34	-15.43	H	1	1.00	120.000
1	138.909	26.00	43.50	17.50	-15.38	H	355.2	2.00	120.000
1	251.968	16.33	46.00	29.67	-8.84	H	106.2	2.00	120.000
1	509.396	19.58	46.00	26.42	-3.66	H	167.8	1.00	120.000
1	943.201	26.14	46.00	19.86	2.81	H	359	2.00	120.000

REMARKS:

- Emission level(dBuV/m)=Read Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) -Amplifier Gain
- The other emission levels were very low against the limit.
- Margin value = Limit value – Emission level.

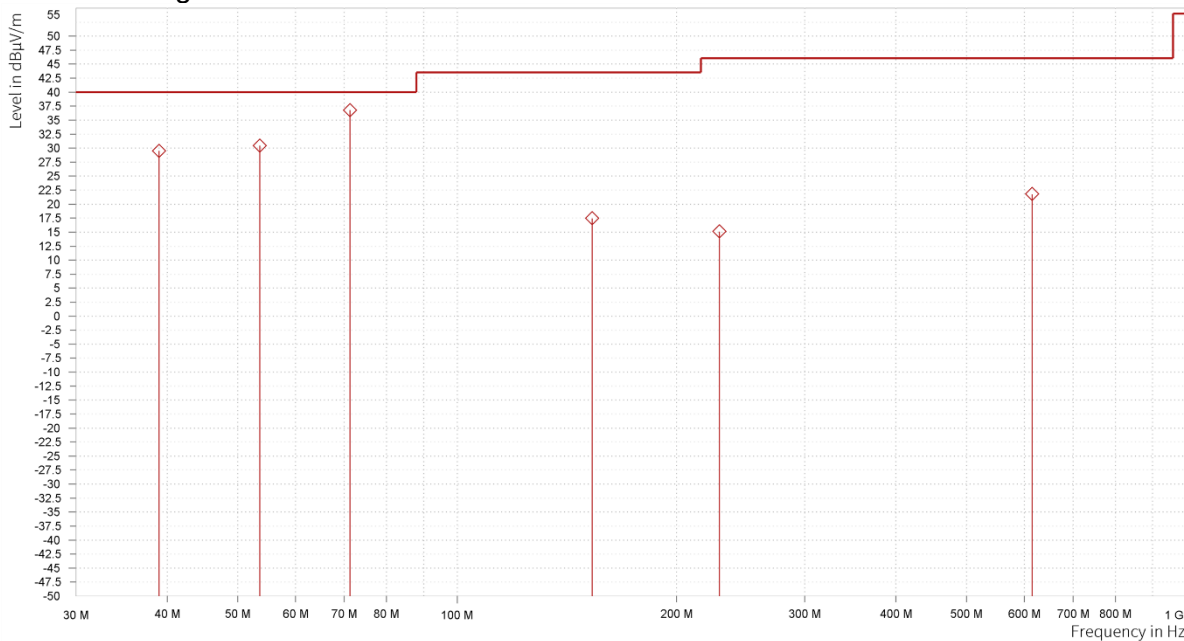


TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Carl Xie		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Rg	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	38.999	29.50	40.00	10.50	-11.47	V	359.1	1.00	120.000
1	53.603	30.42	40.00	9.58	-10.38	V	359.1	1.00	120.000
1	71.279	36.79	40.00	3.21	-14.92	V	81.8	1.00	120.000
1	153.244	17.45	43.50	26.05	-15.03	V	255	1.00	120.000
1	228.904	15.09	46.00	30.91	-10.07	V	255	1.00	120.000
1	614.910	21.77	46.00	24.23	-2.27	V	81.8	1.00	120.000

REMARKS:

- Emission level(dBuV/m)=Read Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) -Amplifier Gain
- The other emission levels were very low against the limit.
- Margin value = Limit value – Emission level.



Legend: ◇ QPK Level @Final Results, ▬ QPK Limit @FCC_RF_1 LIMIT

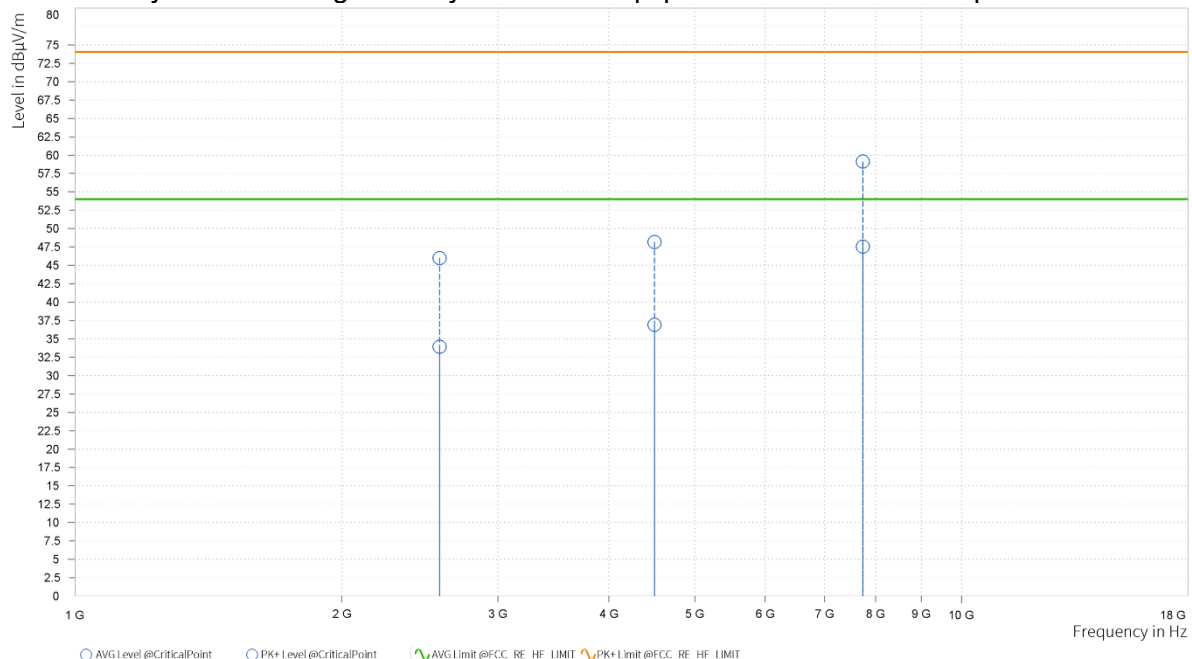
TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Carl Xie		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,578.000	46.00	74.00	28.00	33.93	54.00	20.07	7.27	H	359	2.00
1	4,503.500	48.19	74.00	25.81	36.91	54.00	17.09	10.45	H	26.1	2.00
1	7,737.500	59.12	74.00	14.88	47.54	54.00	6.46	16.34	H	26.1	2.00

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. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 1GHz to 5th harmonic of the highest frequency or 40GHz, whichever is lower. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.
4. Only emissions significantly above the equipment noise floor are reported.



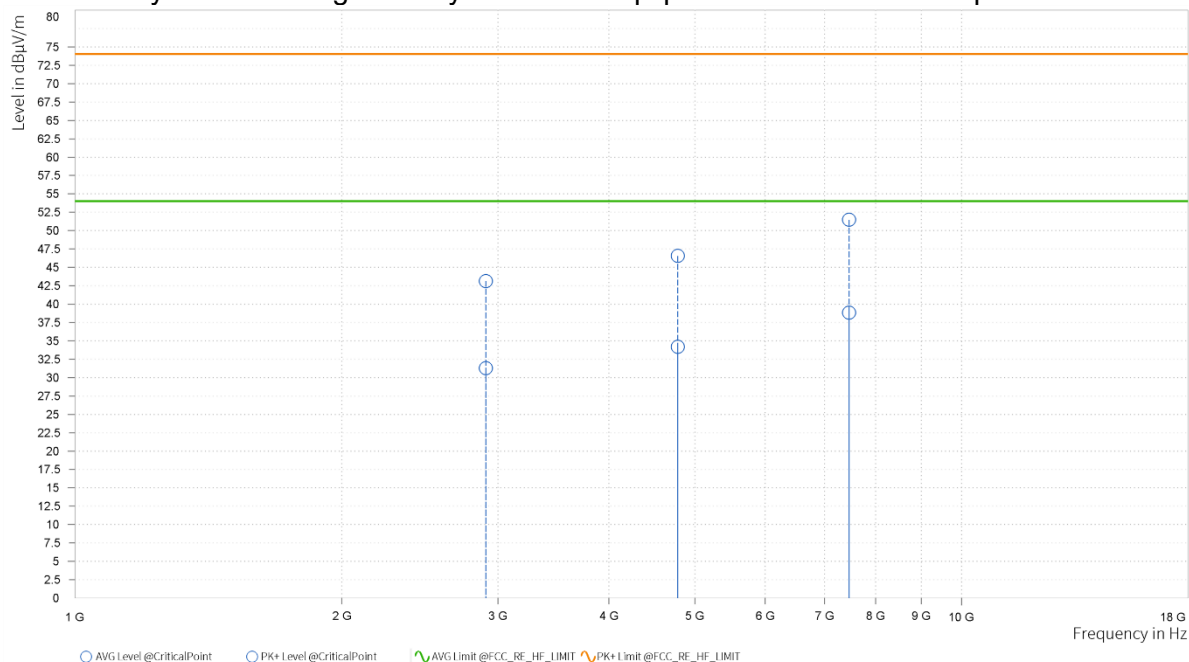
TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Carl Xie		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,905.500	43.15	74.00	30.85	31.26	54.00	22.74	7.40	V	32	2.00
1	4,784.000	46.56	74.00	27.44	34.17	54.00	19.83	11.22	V	179	2.00
1	7,467.000	51.47	74.00	22.53	38.85	54.00	15.15	16.18	V	0.9	2.00

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. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 1GHz to 5th harmonic of the highest frequency or 40GHz, whichever is lower. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.
4. Only emissions significantly above the equipment noise floor are reported.



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.

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