



EMC Test Report

Report No.: STS2601239E01

Issued for

Shenzhen Lagenio Technology Co., Ltd

1206, Building B, Hongrongyuan North Station Center, North
Station Community, Minzhi Street, Longhua District,
Shenzhen, China

Product Name: Smart Phone

Brand Name: LAGENIO

Model Name: Rhino 1 Pro

Series Model(s): Rhino 1, Rhino 1 Ultra

FCC ID: 2BBVW-RHINO1PRO

Test Standards: FCC 47 CFR Part 15: Subpart B



The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name.....: Shenzhen Lagenio Technology Co., Ltd
Address.....: 1206, Building B, Hongrongyuan North Station Center, North Station Community, Minzhi Street, Longhua District, Shenzhen, China
Manufacturer's Name.....: Shenzhen Lagenio Technology Co., Ltd
Address.....: 1206, Building B, Hongrongyuan North Station Center, North Station Community, Minzhi Street, Longhua District, Shenzhen, China

Product description

Product Name.....: Smart Phone
Brand Name.....: LAGENIO
Model Name.....: Rhino 1 Pro
Series Model(s).....: Rhino 1, Rhino 1 Ultra

Test Standards.....: FCC 47 CFR Part 15: Subpart B

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Date of Test.....:

Date of Receipt of Test Item.....: 22 Jan. 2026
Date (s) of performance of Tests.....: 22 Jan. 2026~11 Mar. 2026
Date of Issue.....: 11 Mar. 2026
Test Result.....: **Pass**

Testing Engineer : Star Deng
(Star Deng)

Technical Manager : Brave Wu
(Brave Wu)

Authorized Signatory : Bovey Yang
(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	11 Mar. 2026	STS2601239E01	ALL	Initial Issue



1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission			
Standard	Test Item	Result	Remark
FCC 47 CFR Part 15: Subpart B	Conducted Emission	PASS	Meet Class B limit
	Radiated Emissions	PASS	Meet Class B limit

Note:

(1) "N/A" denotes test is not applicable in this Test Report

1.1 TEST FACTORY

Company Name:	Shenzhen STS Test Services Co. Ltd.
Address:	101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China
Telephone:	+86-755 3688 6288
Fax:	+86-755 3688 6277
Registration No.:	FCC test Firm Registration Number: 625569
	IC test Firm Registration Number: 12108A
	A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	$\pm 2.14\text{dB}$
2	Conducted Emission (150KHz-30MHz)	$\pm 3.02\text{dB}$
3	All emissions, radiated(<1G) 30MHz-1000MHz	$\pm 3.87\text{dB}$
4	All emissions, radiated(>1G) 1GHz-6GHz	$\pm 4.82\text{dB}$
5	All emissions, radiated(>1G) 6GHz-18GHz	$\pm 5.26\text{dB}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	Smart Phone	
Brand Name	LAGENIO	
Model Name	Rhino 1 Pro	
Series Model(s)	Rhino 1, Rhino 1 Ultra	
Model Difference	The only difference is the model name.	
Product Description	The EUT is a Smart Phone ITE equipment having a primary function of either (or a combination of) entry, storage, display, retrieval, transmission, processing, switching, or control of data and/or telecommunication messages and which may be equipped with one or more ports typically for information transfer.	
Frequency Bands	Bluetooth	2402~2480 MHz
	2.4G WLAN	802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2462MHz
	5.2G WLAN	802.11a/n/ac (20MHz): 5180~5240MHz 802.11n /ac(40MHz):5190~5230MHz 802.11ac (80MHz):5210MHz
	5.8G WLAN	802.11a/n/ac (20MHz): 5745~5825MHz 802.11n /ac(40MHz):5755~5795MHz 802.11ac (80MHz):5775MHz
	NFC	13.56MHz
	GSM	GSM850: 824-849 MHz GSM1900: 1850-1910 MHz
	WCDMA	WCDMA B2: 1850-1910 MHz WCDMA B4: 1710-1755 MHz WCDMA B5: 824-849 MHz
	LTE	LTE Band 2:1850~1910MHz LTE Band 4:1710~1755MHz LTE Band 5:824~849MHz LTE Band 7:2500~2570MHz LTE Band 17: 704-716 MHz LTE Band 12:699~716MHz LTE Band 25: 1850~1915MHz LTE Band 26 Part 90:814~824MHz LTE Band 26 Part 22:824-849 MHz LTE Band 38:2570-2620 MHz LTE Band 40:2305-2315 MHz /2350-2360 MHz LTE Band 41: 2496-2690MHz LTE Band 66:1710~1780MHz
Modulation Mode	BT	BT(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8DPSK



	BLE	GFSK
	2.4G WLAN	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM
	5G WLAN	802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM):BPSK,QPSK,16-QAM, 64-QAM,256-QAM
	NFC	ASK
	GSM	GMSK for GSM/GPRS; GMSK and 8PSK for EDGE
	WCDMA	WCDMA: QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK
	LTE	QPSK/16QAM
	Rating	Input: 11V=3A
Battery	Model: A5465911201P Brand: LAGENIO Rated Voltage: 3.87V Charge Limit Voltage: 4.45V Capacity: 12000mAh	
Adapter	Model: TD-203G200170UF01 Brand: LAGENIO Input: 100-240V~50/60Hz 0.6A Output: 5V=3A, 9V=3A, 12V=2.5A, 15V=2A, 20V=1.5A PPS: 3.3V-16V=2A, 3.3V-11V=3A	
Hardware version number	N/A	
Software version number	N/A	

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	PC+USB Transmitting+SD Card
Mode 2	Charging+Rear camera on
Mode 3	Charging+Front camera on
Mode 4	Charging+Audio+Video
Mode 5	Adapter+USB cable+GSM850 Link+BT Link+WLAN Link+GPS RX+NFC
Mode 6	Adapter+USB cable+DCS1900 Link +BT Link+WLAN



	Link+GPS RX+NFC
Mode 7	Adapter+USB cable+WCDMA B2 Link+BT Link+WLAN Link+GPS RX+NFC
Mode 8	Adapter+USB cable+WCDMA B4 Link+BT Link+WLAN Link+GPS RX+NFC
Mode 9	Adapter+USB cable+WCDMA B5 Link+BT Link+WLAN Link+GPS RX+NFC
Mode 10	Adapter+USB cable+LTE B2 Link+BT Link+WLAN Link+GPS RX+NFC
Mode 11	Adapter+USB cable+LTE B4 Link+BT Link+WLAN Link+GPS RX+NFC
Mode 12	Adapter+USB cable+LTE B5 Link+BT Link+WLAN Link+GPS RX+NFC
Mode 13	Adapter+USB cable+LTE B7 Link+BT Link+WLAN Link+GPS RX+NFC
Mode 14	Adapter+USB cable+LTE B12 Link+BT Link+WLAN Link+GPS RX+NFC
Mode 15	Adapter+USB cable+LTE B17 Link+BT Link+WLAN Link+GPS RX+NFC
Mode 16	Adapter+USB cable+LTE B25 Link +BT Link+WLAN Link+GPS RX+NFC
Mode 17	Adapter+USB cable+LTE B26 Link+BT Link+WLAN Link+GPS RX+NFC
Mode 18	Adapter+USB cable+LTE B38 Link +BT Link+WLAN Link+GPS RX+NFC
Mode 19	Adapter+USB cable+LTE B40 Link+BT Link+WLAN Link+GPS RX+NFC
Mode 20	Adapter+USB cable+LTE B41 Link +BT Link+WLAN Link+GPS RX+NFC
Mode 21	Adapter+USB cable+LTE B66 Link+BT Link+WLAN Link+GPS RX+NFC
Mode 22	Adapter+USB cable+GSM850 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 23	Adapter+USB cable+DCS1900 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 24	Adapter+USB cable+WCDMA B2 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 25	Adapter+USB cable +WCDMA B4 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 26	Adapter+USB cable+WCDMA B5 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 27	Adapter+USB cable+LTE B2 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 28	Adapter+USB cable+LTE B4 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 29	Adapter+USB cable+LTE B5 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 30	Adapter+USB cable+LTE B7 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 31	Adapter+USB cable+LTE B12 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 32	Adapter+USB cable+LTE B17 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 33	Adapter+USB cable+LTE B25 Idle+BT Link+WLAN Link+GPS RX+NFC



Mode 34	Adapter+USB cable+LTE B26 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 35	Adapter+USB cable+LTE B38 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 36	Adapter+USB cable+LTE B40 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 37	Adapter+USB cable+LTE B41 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 38	Adapter+USB cable+LTE B66 Idle+BT Link+WLAN Link+GPS RX+NFC
Mode 39	Adapter+USB cable+GSM850 Link+BT Standby+WLAN Standby+GPS RX+NFC
Mode 40	Adapter+USB cable+DCS1900 Link +BT Standby+WLAN Standby+GPS RX+NFC
Mode 41	Adapter+USB cable+WCDMA B2 Link+BT Standby+WLAN Standby +GPS RX+NFC
Mode 42	Adapter+USB cable+WCDMA B4 Link+BT Standby+WLAN Standby +GPS RX+NFC
Mode 43	Adapter+USB cable+WCDMA B5 Link+BT Standby+WLAN Standby +GPS RX+NFC
Mode 44	Adapter+USB cable+LTE B2 Link+BT Standby+WLAN Standby +GPS RX+NFC
Mode 45	Adapter+USB cable+LTE B4 Link+BT Standby+WLAN Standby +GPS RX+NFC
Mode 46	Adapter+USB cable+LTE B5 Link+BT Standby+WLAN Standby +GPS RX+NFC
Mode 47	Adapter+USB cable+LTE B7 Link+BT Standby+WLAN Standby +GPS RX+NFC
Mode 48	Adapter+USB cable+LTE B12 Link+BT Standby +WLAN Standby +GPS RX+NFC
Mode 49	Adapter+USB cable+LTE B17 Link+BT Standby +WLAN Standby +GPS RX+NFC
Mode 50	Adapter+USB cable+LTE B25 Link+BT Standby +WLAN Standby +GPS RX+NFC
Mode 51	Adapter+USB cable+LTE B26 Link+BT Standby +WLAN Standby +GPS RX+NFC
Mode 52	Adapter+USB cable+LTE B38 Link+BT Standby +WLAN Standby +GPS RX+NFC
Mode 53	Adapter+USB cable+LTE B40 Link+BT Standby+WLAN Standby+GPS RX+NFC
Mode 54	Adapter+USB cable+LTE B41 Link+BT Standby +WLAN Standby +GPS RX+NFC
Mode 55	Adapter+USB cable+LTE B66 Link+BT Standby+WLAN Standby+GPS RX+NFC
Mode 56	Adapter+USB cable+GSM850 Idle+BT Standby+WLAN Standby +GPS RX+NFC
Mode 57	Adapter+USB cable+DCS1900 Idle+BT Standby+WLAN Standby +GPS RX+NFC
Mode 58	Adapter+USB cable+WCDMA B2 Idle+BT Standby+WLAN Standby+GPS RX+NFC
Mode 59	Adapter+USB cable+WCDMA B4 Idle+BT Standby+WLAN Standby +GPS RX+NFC
Mode 60	Adapter+USB cable+WCDMA B5 Idle+BT Standby+WLAN Standby +GPS RX+NFC
Mode 61	Adapter+USB cable+LTE B2 Idle+BT Standby+WLAN



	Standby +GPS RX+NFC
Mode 62	Adapter+USB cable+LTE B4 Idle+BT Standby+WLAN Standby +GPS RX+NFC
Mode 63	Adapter+USB cable +LTE B5 Idle+BT Standby+WLAN Standby +GPS RX+NFC
Mode 64	Adapter+USB cable+LTE B7 Idle+BT Standby+WLAN Standby +GPS RX+NFC
Mode 65	Adapter+USB cable+LTE B12 Idle+BT Standby+WLAN Standby +GPS RX+NFC
Mode 66	Adapter+USB cable+LTE B17 Idle+BT Standby+WLAN Standby +GPS RX+NFC
Mode 67	Adapter+USB cable+LTE B25 Idle+BT Standby+WLAN Standby +GPS RX+NFC
Mode 68	Adapter+USB cable+LTE B26 Idle+BT Standby+WLAN Standby +GPS RX+NFC
Mode 69	Adapter+USB cable+LTE B38 Idle+BT Standby+WLAN Standby +GPS RX+NFC
Mode 70	Adapter+USB cable +LTE B40 Idle+BT Standby+WLAN Standby+GPS RX+NFC
Mode 71	Adapter+USB cable+LTE B41 Idle+BT Standby+WLAN Standby +GPS RX+NFC
Mode 72	Adapter+USB cable +LTE B66 Idle+BT Standby+WLAN Standby+GPS RX+NFC
Mode 73	Charging + FM

For Conducted Test	
Final Test Mode	Description
Mode 1	PC+USB Transmitting+SD Card

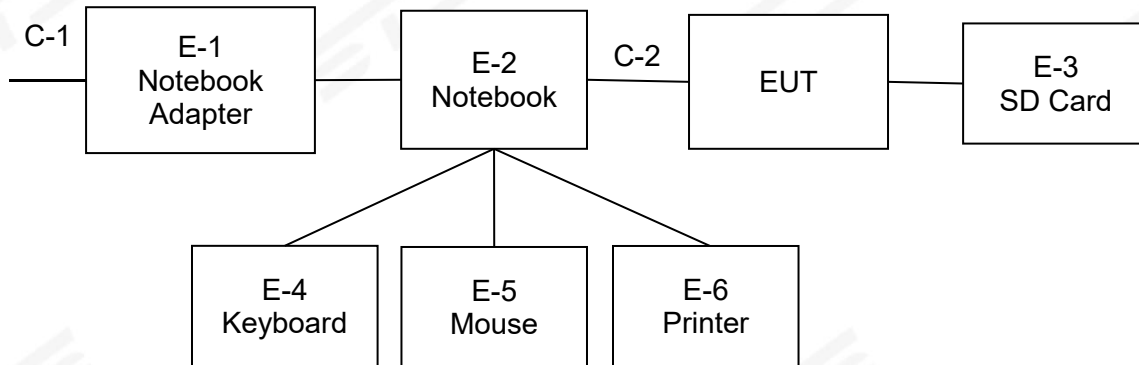
For Radiated Test	
Final Test Mode	Description
Mode 1	PC+USB Transmitting+SD Card

Note:

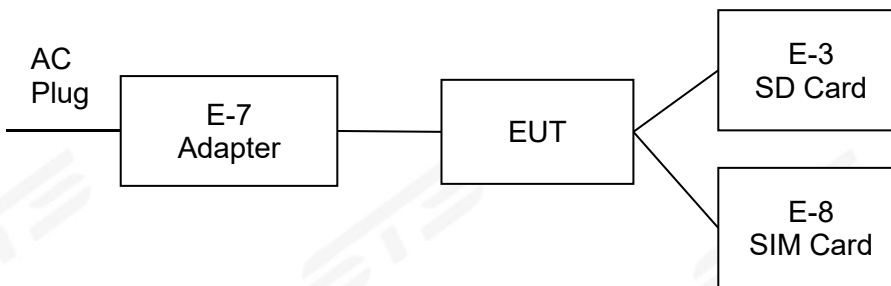
1. In the conducted disturbance test, Mode 1 is the minimum margin mode, and this report only shows the minimum margin mode test data.
2. In the radiation disturbance test, Mode 1 is the minimum margin mode, and this report only shows the minimum margin mode test data.

2.3 DESCRIPTION OF TEST SETUP

Mode1



Mode2-73





2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Notebook Adapter	DELL	HSTNN-CA15	N/A
E-2	Notebook	DELL	Inspiron 3501	N/A
E-3	SD Card	Sandisk	840XKT-FB	N/A
E-4	Keyboard	HP	PR1101U	N/A
E-5	Mouse	MOTOSPEED	F66	N/A
E-6	Printer	LENOVO	LJ2400L	N/A
E-7	Adapter	LAGENIO	TD-203G200170UF01	N/A
E-8	SIM Card	Verizon	QPE	N/A

Item	Equipment	Ferrite Core	Length	Note
C-1	AC Cable	NO	150cm	N/A
C-2	USB Cable	NO	100cm	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.5 MEASUREMENT INSTRUMENTS LIST

2.5.1 CONDUCTED TEST SITE

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2025.9.25	2026.9.24
LISN	R&S	ENV216	101242	2025.9.25	2026.9.24
LISN	R&S	3810/2NM	00023625	2025.9.25	2026.9.24
Limiter	CYBERTEK	EM5010	N/A	2025.9.25	2026.9.24
Absorbing Clamp	R&S	MDS-21	100668	2026.2.5	2027.2.4
CE Cable	N/A	C01	N/A	2025.9.24	2026.9.23
Clamp Cable	N/A	C02	N/A	2025.9.24	2026.9.23
Loops Cable	N/A	C03	N/A	2025.9.24	2026.9.23
ISN	SCHWARZBECK	CAT 6	NTFM 8158#153	2025.9.25	2026.9.24
Temperature & Humidity	topris	TP502V4-P	6900000422137	2025.8.26	2026.8.25
Testing Software	EZ-EMC(Ver.STSLAB-03A1 CE)				

2.5.2 RADIATED TEST SITE

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2025.9.25	2026.9.24
Bi-log Antenna	TESEQ	CBL6111D	45873	2025.9.21	2026.9.20
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1343	2025.9.27	2026.9.26
Pre-amplifier(1G-26.5G)	Agilent	HP8449B	3008A02383	2026.2.8	2027.2.7
Pre-amplifier(0.1M-3GHz)	EM	EM330	060665	2026.2.5	2027.2.4
Spectrum Analyzer	Agilent	N9020A	MY49100060	2025.9.24	2026.9.23
RE Cable (9K-1G)	N/A	R01	N/A	2025.9.24	2026.9.23
RE Cable (1G-26G)	N/A	R02	N/A	2025.9.24	2026.9.23
Temperature & Humidity	topris	TP502V4-P	6900000422328	2025.8.26	2026.8.25
SAC	ChengYu	9*6*6	N/A	2025.8.13	2028.8.12
Testing Software	EZ-EMC(Ver.STSLAB-03A1 RE)				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

FREQUENCY (MHz)	☐ Class A (dBμV)		☒ Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.5 ~ 5	73.00	60.00	56.00	46.00
5 ~ 30	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

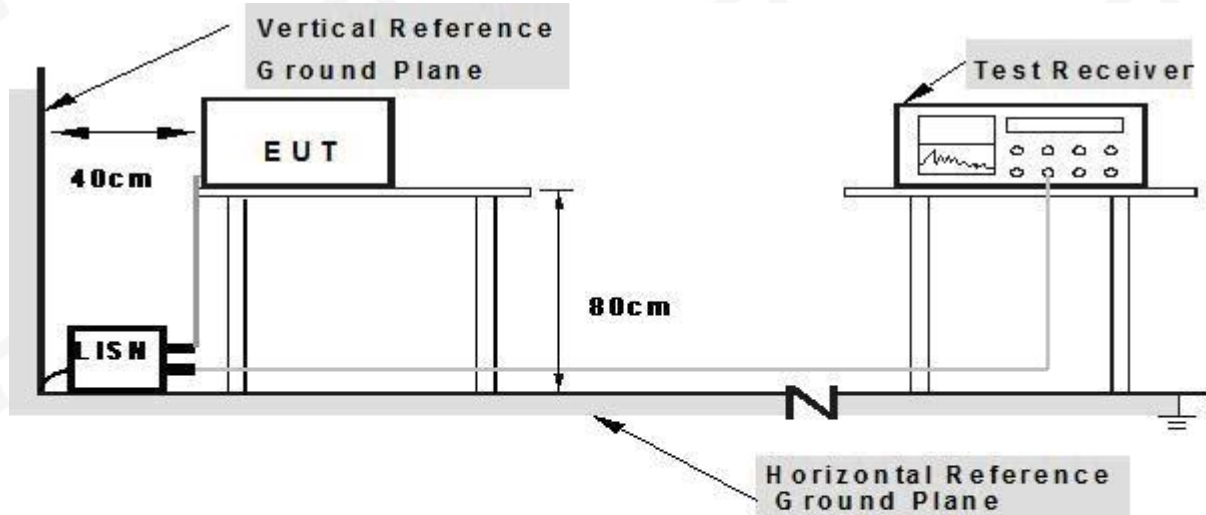
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 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

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.1.6 TEST RESULTS

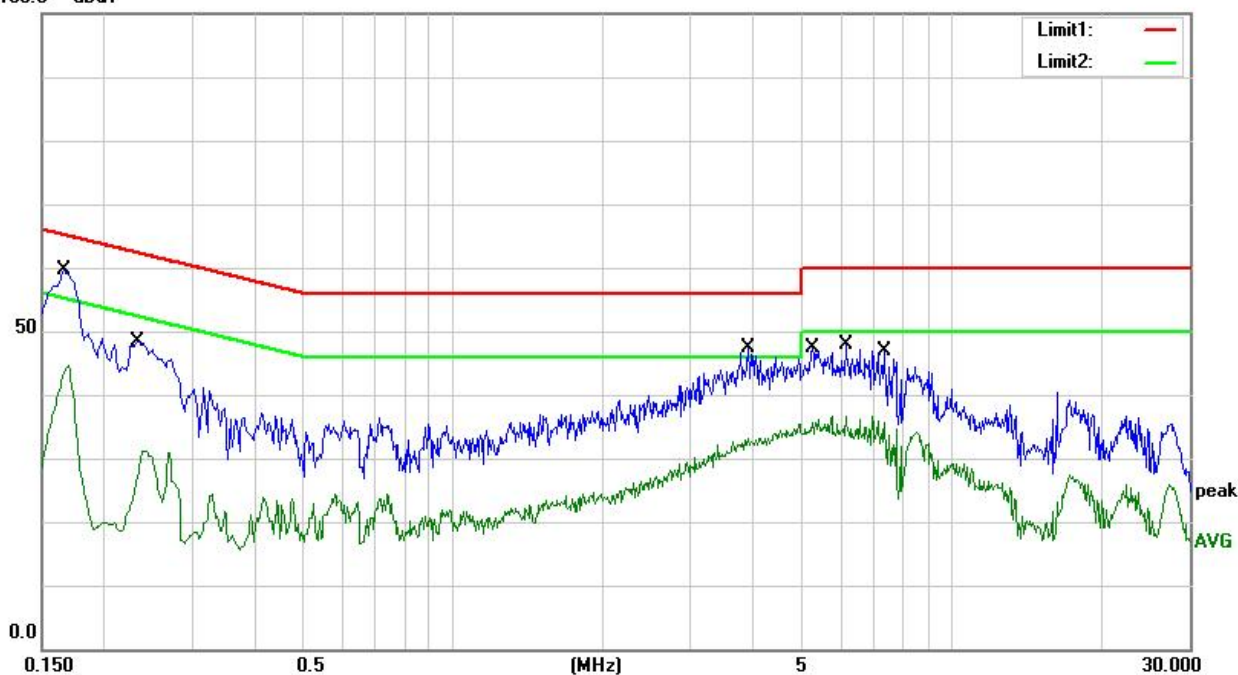
Temperature:	25.1℃	Relative Humidity:	59%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	DC 5V from PC With AC 120V/60Hz	Test Date:	2026.01.23

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	40.17	19.38	59.55	65.16	-5.61	QP
2	0.1660	25.29	19.38	44.67	55.16	-10.49	AVG
3	0.2340	29.00	19.39	48.39	62.31	-13.92	QP
4	0.2340	11.81	19.39	31.20	52.31	-21.11	AVG
5	3.9100	27.98	19.41	47.39	56.00	-8.61	QP
6	3.9100	13.62	19.41	33.03	46.00	-12.97	AVG
7	5.2500	27.93	19.42	47.35	60.00	-12.65	QP
8	5.2500	15.95	19.42	35.37	50.00	-14.63	AVG
9	6.1420	28.55	19.43	47.98	60.00	-12.02	QP
10	6.1420	17.24	19.43	36.67	50.00	-13.33	AVG
11	7.3500	27.40	19.48	46.88	60.00	-13.12	QP
12	7.3500	17.10	19.48	36.58	50.00	-13.42	AVG

Remark:

1. Readings are Quasi-Peak (rows marked "QP") or Average values (rows marked "AVG").
2. Margin = Result (Result = Reading + Factor) - Limit.
3. Factor = Insertion loss + Cable loss.

100.0 dBuV



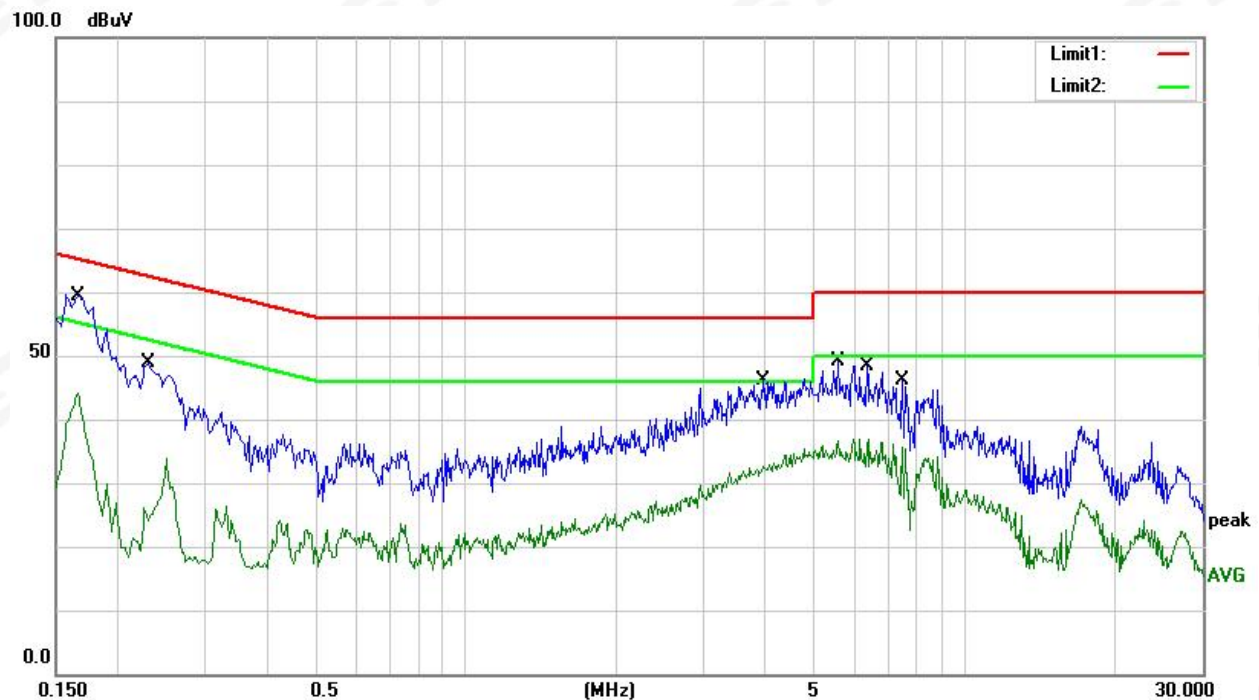


Temperature:	25.1℃	Relative Humidity:	59%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	DC 5V from PC With AC 120V/60Hz	Test Date:	2026.01.23

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	40.06	19.40	59.46	65.16	-5.70	QP
2	0.1660	24.80	19.40	44.20	55.16	-10.96	AVG
3	0.2300	29.46	19.38	48.84	62.45	-13.61	QP
4	0.2300	14.47	19.38	33.85	52.45	-18.60	AVG
5	3.9620	26.58	19.46	46.04	56.00	-9.96	QP
6	3.9620	13.59	19.46	33.05	46.00	-12.95	AVG
7	5.5660	29.71	19.45	49.16	60.00	-10.84	QP
8	5.5660	15.91	19.45	35.36	50.00	-14.64	AVG
9	6.3820	28.81	19.45	48.26	60.00	-11.74	QP
10	6.3820	17.49	19.45	36.94	50.00	-13.06	AVG
11	7.5020	26.71	19.50	46.21	60.00	-13.79	QP
12	7.5020	16.54	19.50	36.04	50.00	-13.96	AVG

Remark:

1. Readings are Quasi-Peak (rows marked "QP") or Average values (rows marked "AVG").
2. Margin = Result (Result = Reading + Factor) - Limit.
3. Factor = Insertion loss + Cable loss.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

Frequency (MHz)	☐ Class A	☒ Class B	
	Field strength (dBuV/m) (at 3m)	Field strength (dBuV/m) (at 10m)	Field strength (dBuV/m) (at 3m)
30 ~ 88	49.5	30	40
88 ~ 216	54	33.5	43.5
216 ~ 960	56.9	36	46
Above 960	60	44	54

Above 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

Frequency (MHz)	☐ Class A		☒ Class B			
	(dBuV/m) (at 3m)		(dBuV/m) (at 10m)		(dBuV/m) (at 3m)	
	Peak	Average	Peak	Average	Peak	Average
Above 1000	80	60	64	44	74	54

Frequency Range of Radiated Disturbance Measurement

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

Note:

- (1) The limit for radiated test was performed in the following: FCC PART 15B.
- (2) The tighter limit applies at the band edges
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



3.2.2 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meter 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. EUT as the center to the edge of the auxiliary device, the distance from the maximum edge to the center of the antenna is 3 meter.
- c. The height of antenna is varied from 1 meter to 4 meter 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 meter and the rotatable table was turned from 0 degrees to 360 degree 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

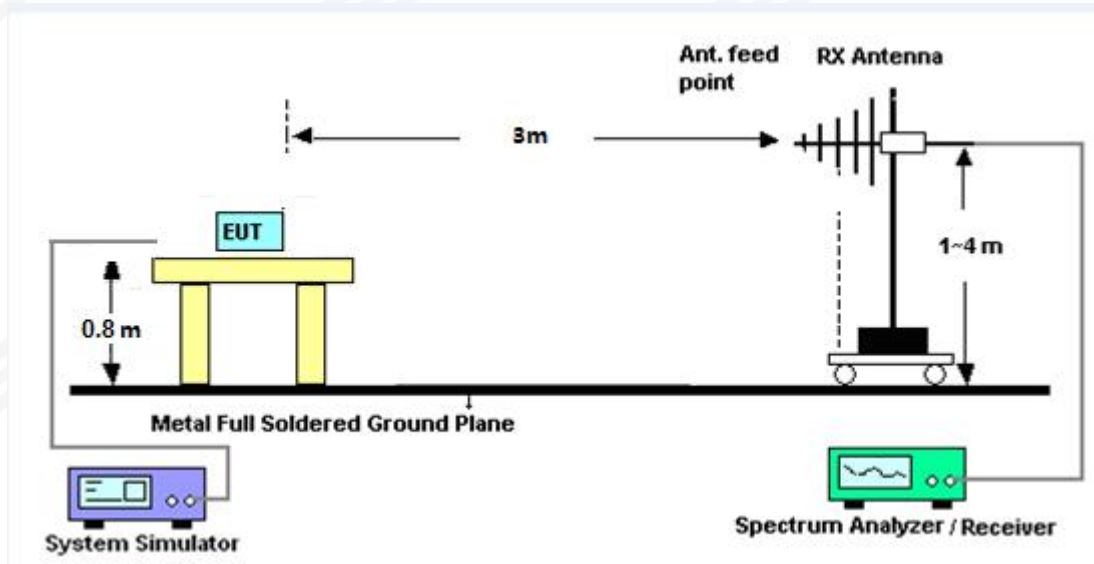
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

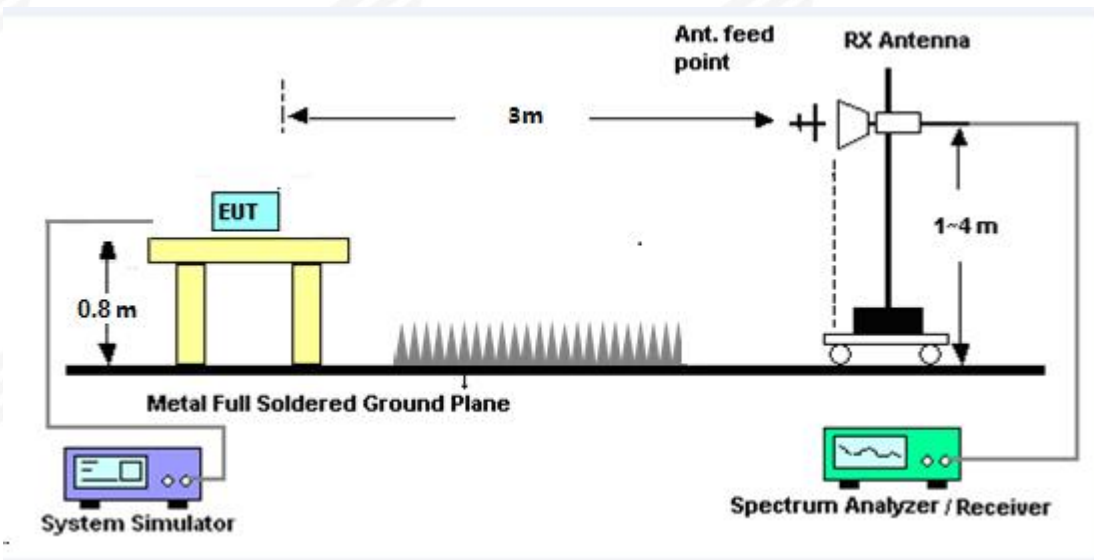
No deviation

3.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 described unless otherwise a special operating condition is specified in the following during the testing.

**3.2.6 TEST RESULTS (30MHz-1000MHz)**

Temperature:	24.8℃	Relative Humidity:	46%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	DC 5V from PC With AC 120V/60Hz	Test Date:	2026.01.22

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	226.0994	50.80	-19.03	31.77	46.00	-14.23	QP
2	258.3264	49.19	-15.13	34.06	46.00	-11.94	QP
3	278.0668	49.85	-15.84	34.01	46.00	-11.99	QP
4	309.9977	49.37	-15.49	33.88	46.00	-12.12	QP
5	396.2415	41.90	-13.45	28.45	46.00	-17.55	QP
6	798.9797	40.22	-4.77	35.45	46.00	-10.55	QP

Remark:

1. All readings are Quasi-Peak.
2. Margin = Result (Result = Reading + Factor)-Limit.
3. Factor= Cable Loss +Antenna Factor-Amplifier Gain.

80.0 dBuV/m





Temperature:	24.8℃	Relative Humidity:	46%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	DC 5V from PC With AC 120V/60Hz	Test Date:	2026.01.22

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	104.9033	47.53	-19.78	27.75	43.50	-15.75	QP
2	229.2931	49.35	-18.74	30.61	46.00	-15.39	QP
3	257.4222	44.35	-15.38	28.97	46.00	-17.03	QP
4	539.4775	39.09	-9.29	29.80	46.00	-16.20	QP
5	839.1818	36.32	-4.98	31.34	46.00	-14.66	QP
6	989.5355	33.37	-2.14	31.23	54.00	-22.77	QP

Remark:

1. All readings are Quasi-Peak.
2. Margin = Result (Result = Reading + Factor)-Limit.
3. Factor= Cable Loss +Antenna Factor-Amplifier Gain.

80.0 dBuV/m



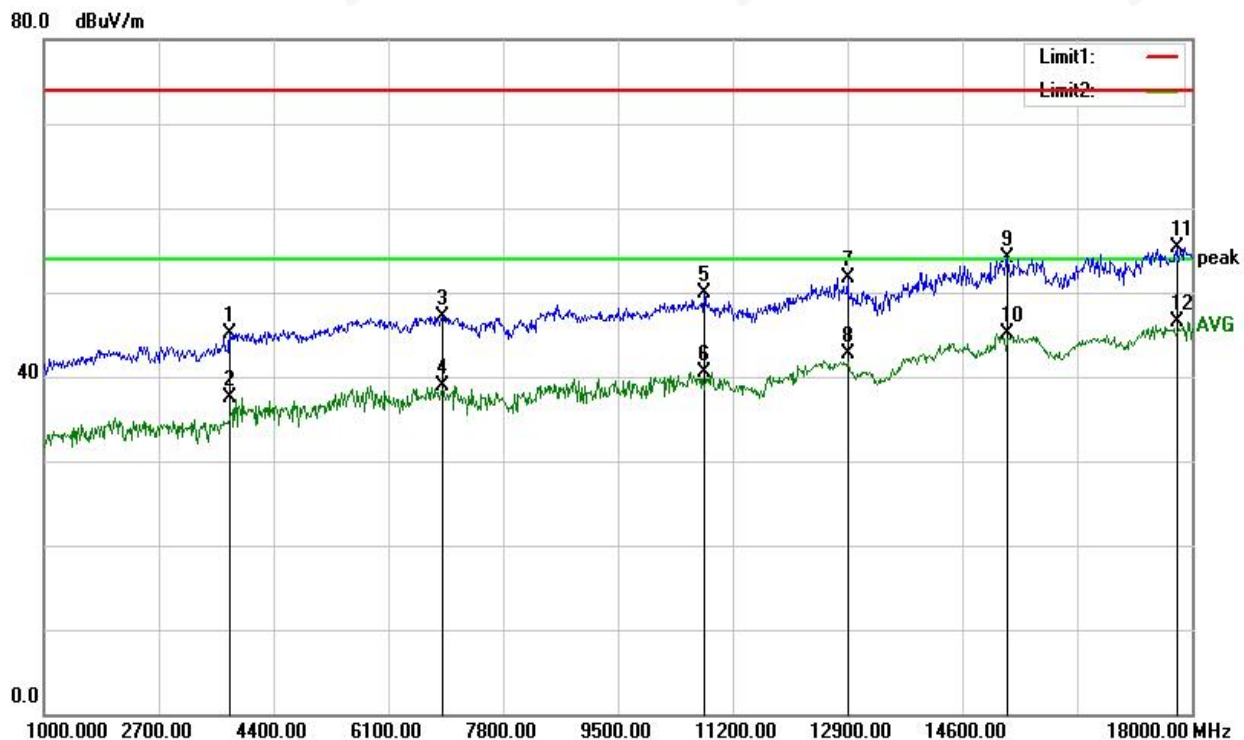
**3.2.7 TEST RESULT(1000-18000 MHz)**

Temperature:	25.3℃	Relative Humidity:	43%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	DC 5V from PC With AC 120V/60Hz	Test Date:	2026.01.22

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3762.500	41.45	3.74	45.19	74.00	-28.81	peak
2	3762.500	33.78	3.74	37.52	54.00	-16.48	AVG
3	6907.500	36.51	10.57	47.08	74.00	-26.92	peak
4	6907.500	28.32	10.57	38.89	54.00	-15.11	AVG
5	10775.000	35.83	14.03	49.86	74.00	-24.14	peak
6	10775.000	26.44	14.03	40.47	54.00	-13.53	AVG
7	12900.000	36.40	15.37	51.77	74.00	-22.23	peak
8	12900.000	27.34	15.37	42.71	54.00	-11.29	AVG
9	15271.500	36.41	17.60	54.01	74.00	-19.99	peak
10	15271.500	27.46	17.60	45.06	54.00	-8.94	AVG
11	17787.500	31.14	24.24	55.38	74.00	-18.62	peak
12	17787.500	22.18	24.24	46.42	54.00	-7.58	AVG

Remark:

1. Readings are peak values (rows marked “peak”) or average values (rows marked “AVG”).
2. Margin = Result (Result = Reading + Factor)–Limit.
3. Factor= Cable Loss +Antenna Factor–Amplifier Gain.





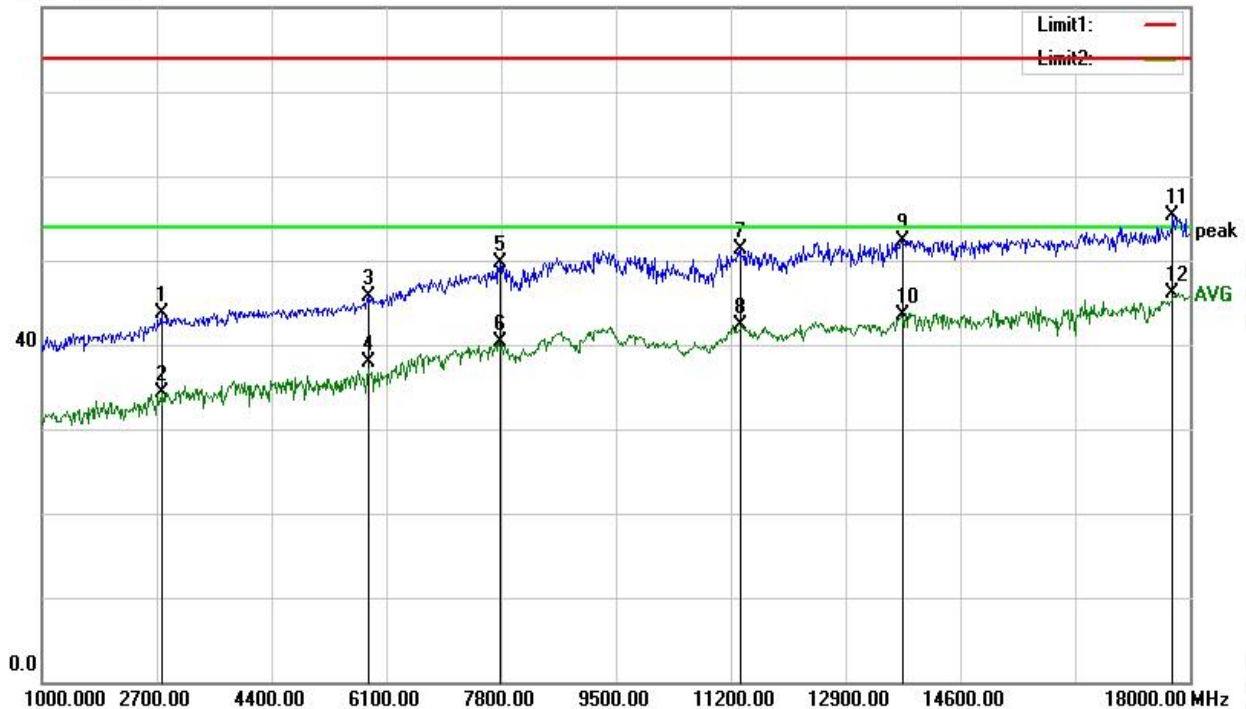
Temperature:	25.3℃	Relative Humidity:	43%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	DC 5V from PC With AC 120V/60Hz	Test Date:	2026.01.22

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2768.000	42.65	1.05	43.70	74.00	-30.30	peak
2	2768.000	33.30	1.05	34.35	54.00	-19.65	AVG
3	5853.500	38.27	7.50	45.77	74.00	-28.23	peak
4	5853.500	30.42	7.50	37.92	54.00	-16.08	AVG
5	7783.000	38.64	11.11	49.75	74.00	-24.25	peak
6	7783.000	29.22	11.11	40.33	54.00	-13.67	AVG
7	11336.000	37.00	14.40	51.40	74.00	-22.60	peak
8	11336.000	27.96	14.40	42.36	54.00	-11.64	AVG
9	13758.500	35.93	16.47	52.40	74.00	-21.60	peak
10	13758.500	27.08	16.47	43.55	54.00	-10.45	AVG
11	17753.500	31.72	23.68	55.40	74.00	-18.60	peak
12	17753.500	22.48	23.68	46.16	54.00	-7.84	AVG

Remark:

1. Readings are peak values (rows marked "peak") or average values (rows marked "AVG").
2. Margin = Result (Result = Reading + Factor) - Limit.
3. Factor = Cable Loss + Antenna Factor - Amplifier Gain.

80.0 dBuV/m



Notes:

1. Measuring frequencies from 1 GHz to 18GHz
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak and average detector mode of the emission shown in Actual FS column.
3. The frequency emission of 18-25GHz is at least 20dB lower than the limit, and the frequency emission mainly



comes from environmental noise.



APPENDIX 1-PHOTO TEST OF EUT

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

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