

Suzhou ShiRuizhuo Technology Co., Ltd.

RF TEST REPORT

Report Type:

FCC Part 15.247 & ISED RSS-247 RF report

Model:

MHCR05RR

REPORT NUMBER:

2606B1261SHA-001

ISSUE DATE:

Jul 21, 2026

DOCUMENT CONTROL NUMBER:

TTRF15.247-01_V1 © 2018 Intertek



Applicant: Suzhou ShiRuizhuo Technology Co., Ltd.
Room 508, Building C, No.112 GLP I-Park, Sutong Road, Suzhou
Industrial Park District, Suzhou City, Jiangsu Province, P.R. China

Manufacturer: Suzhou ShiRuizhuo Technology Co., Ltd.
Room 508, Building C, No.112 GLP I-Park, Sutong Road, Suzhou
Industrial Park District, Suzhou City, Jiangsu Province, P.R. China

FCC ID: 2BQXJ-MHCR05RR01

IC: 34326-MHCR05RR01

Lora module FCC ID: 2BM2K-M4

Lora module IC: 33426-M4

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

47CFR Part 15 (2024): Radio Frequency Devices (Subpart C)

ANSI C63.10 (2020)+Cor.1(2023)+C63.10a(2024)+Errata to C63.10a(2024): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

RSS-247 Issue 4 (July 2025): Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

RSS-Gen Issue 5 (April 2018)+A1(March 2019)+A2(February 2021): General Requirements for Compliance of Radio Apparatus

PREPARED BY:**REVIEWED BY:**

Project Engineer

Teddy Yin

Reviewer

Wakeyou Wang

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

TEST REPORT

Content

REVISION HISTORY.....	4
MEASUREMENT RESULT SUMMARY	5
1 GENERAL INFORMATION	6
1.1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	6
1.2 TECHNICAL SPECIFICATION.....	6
1.3 FREQUENCY HOPPING SYSTEM REQUIREMENT.....	7
1.4 DESCRIPTION OF TEST FACILITY.....	8
2 TEST SPECIFICATIONS.....	9
2.1 STANDARDS OR SPECIFICATION	9
2.2 MODE OF OPERATION DURING THE TEST	9
2.3 TEST SOFTWARE LIST	10
2.4 TEST PERIPHERALS LIST.....	10
2.5 TEST ENVIRONMENT CONDITION:.....	10
2.6 INSTRUMENT LIST	11
2.7 MEASUREMENT UNCERTAINTY.....	12
3 OUTPUT POWER.....	13
3.1 LIMIT	13
3.2 TEST CONFIGURATION	13
3.3 MEASUREMENT PROCEDURE	13
3.4 TEST RESULTS OF OUTPUT POWER	13
4 RADIATED EMISSIONS	14
4.1 LIMIT	14
4.2 MEASUREMENT PROCEDURE	14
4.3 TEST CONFIGURATION	16
4.4 TEST RESULTS OF RADIATED EMISSIONS	18
5 POWER LINE CONDUCTED EMISSION.....	22
5.1 LIMIT	22
5.2 TEST CONFIGURATION	22
5.3 MEASUREMENT PROCEDURE	23
5.4 TEST RESULTS OF POWER LINE CONDUCTED EMISSION.....	24
6 ANTENNA REQUIREMENT.....	26

Revision History

Report No.	Version	Description	Issued Date
2606B1261SHA-001	Rev. 01	Initial issue of report	Jul 21, 2026

Statement

This product uses a certified Lora Module(model: M4). Lora Module's FCC ID is 2BM2K-M4, IC ID is 33426-M4. The certified module report refers to HX250516R001 issued by Shenzhen Huaxin Information Technology Service Co., Ltd. The antenna is changed to external PCB antenna with the max gain: 2.36dBi. After evaluation, output power was re-calculated with the new antenna gain: 2.36dBi, RSE was re-tested and the RSE data is listed in this report. The data referenced accurately represents the device's operation as per KDB 996369 D02.

Measurement result summary

TEST ITEM	FCC REFERENCE	IC REFERENCE	RESULT	NOTE
20 dB Bandwidth	15.247(a)(1)	RSS-247 Issue 4 Clause 6.2.2.1	NT	Refer to the certified module report: HX250516R001
Carrier Frequency Separation	15.247(a)(1)	RSS-247 Issue 4 Clause 6.2.1	NT	Refer to the certified module report: HX250516R001
Output power	15.247(b)(1)	RSS-247 Issue 4 Clause 6.2.2.2	Pass	Re-calculated with the new antenna gain: 2.36dBi
Radiated Emissions	15.205 & 15.209	RSS-Gen Issue 5 Clause 8.9&8.10	Pass	
Conducted Spurious Emissions & Band Edge	15.247(d)	RSS-247 Issue 4 Clause 6.6	NT	Refer to the certified module report: HX250516R001
Power line conducted emission	15.207	RSS-Gen Issue 5 Clause 8.8	Pass	
Number of Hopping Frequencies	15.247(a)(1)(iii)	RSS-247 Issue 4 Clause 6.2.2.1	NT	Refer to the certified module report: HX250516R001
Dwell time	15.247(a)(1)(iii)	RSS-247 Issue 4 Clause 6.2.2.1	NT	Refer to the certified module report: HX250516R001
Occupied bandwidth	-	RSS-Gen Issue 5 Clause 6.6	NT	Refer to the certified module report: HX250516R001
Antenna requirement	15.203	-	Pass	

Notes: 1: NA =Not Applicable

2:"NT" means this test is not performed within this report and the results can refer to the related based report

3: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

4: Additions, Deviations and Exclusions from Standards: None.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Charging Station
Type/Model/PMN/HVIN:	MHCR05RR
Description of EUT:	The EUT is Charging Station. The EUT contains WIFI2.4G, WIFI5G, and LORA functions. This report is for LORA. The worst data is listed in the report.
Rating:	Rated Input: 32VDC, 4.69A/6.56A Rated Output: 32VDC, 4A/5.8A
EUT type:	☐ Table top ☒ Floor standing
Hardware Version:	V1R0
Software Version:	B039.00.09
Sample No.:	A260612-94-002
Sample received date:	Jun 15, 2026
Date of test:	Jun 17~Jul 8, 2026

1.2 Technical Specification

Frequency Range:	902MHz ~ 928MHz
Support Standards:	LORA
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	CSS
Channel Number:	50
Channel Separation:	510kHz
Antenna:	2.36dBi, external PCB antenna(Declared by manufacturer)

1.3 Frequency Hopping System Requirement

Test Requirement: Section 15.247 (a)(1), (g), (h) requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

According to LORA Specification by manufacturer, this device complies with these requirements.

1.4 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2024)

ANSI C63.10 (2020)+Cor.1(2023)+C63.10a(2024)+Errata to C63.10a(2024)

RSS-247 Issue 4 (July 2025)

RSS-Gen Issue 5 (April 2018)+A1(March 2019)+A2(February 2021)

2.2 Mode of operation during the test

While testing transmitting mode of EUT, the continuously transmission was applied by following software.

The lowest, middle and highest channel were tested as representatives.

Frequency Band (MHz)				902 ~ 928			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	902.50	13	909.13	26	915.76	39	922.39
1	903.01	14	909.64	27	916.27	40	922.90
2	903.52	15	910.15	28	916.78	41	923.41
3	904.03	16	910.66	29	917.29	42	923.92
4	904.54	17	911.17	30	917.80	43	924.43
5	905.05	18	911.68	31	918.31	44	924.94
6	905.56	19	912.19	32	918.82	45	925.45
7	906.07	20	912.70	33	919.33	46	925.96
8	906.58	21	913.21	34	919.84	47	926.47
9	907.09	22	913.72	35	920.35	48	926.98
10	907.60	23	914.23	36	920.86	49	927.49
11	908.11	24	914.74	37	921.37		
12	908.62	25	915.25	38	921.88		

The test setting software is offered by the manufactory. The pre-scan for the RSE with all rates in each modulation and bands was used, and the worst case was found and used in all test cases.

Test software and Power Setting parameter			
Test Software	SSCOM		
Working Mode	LORA		
Test Channel	902.50MHz	915.25MHz	927.49MHz
Power Setting	default	default	default

Radiated test mode: EUT transmitted signal with LORA antenna.

2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

2.4 Test peripherals list

Item No.	Name	Band and Model	Description
1	Laptop computer	DELL 5480	/
2	Battery Charger	TZAM01	/
3	Robotic Lawn Mower	RRAR4MON	/

2.5 Test environment condition:

Test items	Temperature	Humidity
Power line conducted emission	22°C	55% RH
Radiated Spurious Emission	22°C	55% RH

2.6 Instrument list

Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Test Receiver	R&S	ESR7	EC 6194	2027-02-09
☒	Attenuator	Hua Xiang	Ts5-10db-6g	EC 6194-1	2027-01-13
☒	A.M.N.	R&S	ESH2-Z5	EC 3119	2026-07-23
☒	Shielded room	Zhongyu	-	EC 2838	2027-01-08
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Test Receiver	R&S	ESIB 26	EC 3045	2026-08-18
☒	TRILOG broadband Antenna	Schwarzbeck	VULB9168	EC 6402	2027-04-07
☒	Pre-amplifier	Tonscend	tap01018050	EC 6432-1	2026-12-09
☒	Horn antenna	Tonscend	bha9120d	EC 6432-2	2027-04-10
☒	Semi-anechoic chamber	Albatross	-	EC 3048	2026-07-11
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Therom-Hygrograph	Testo	175h1	EC 6640	2026-08-29
☒	Therom-Hygrograph	Testo	175h1	EC 6641	2026-08-29

2.7 Measurement uncertainty

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

Test item	Measurement uncertainty
Maximum peak output power	$\pm 0.74\text{dB}$
Radiated Emissions in restricted frequency bands below 1GHz	$\pm 4.90\text{dB}$
Radiated Emissions in restricted frequency bands above 1GHz	$\pm 5.02\text{dB}$
Emission outside the frequency band	$\pm 2.89\text{dB}$
Power line conducted emission	$\pm 3.19\text{dB}$

3 Output power

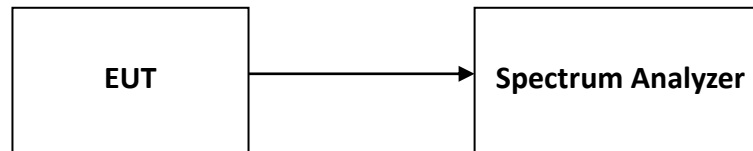
Test result: Pass

3.1 Limit

☒ if the hopset uses 50 or more hopping channels, the maximum peak conducted output power shall not exceed 1.0 W, and the e.i.r.p. shall not exceed 4 W.

☐ if the hopset uses less than 50 hopping channels, the maximum peak conducted output power shall not exceed 0.25 W and the e.i.r.p. shall not exceed 1 W.

3.2 Test Configuration



3.3 Measurement Procedure

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

- Use the following spectrum analyzer settings:
 - Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - RBW > 20 dB bandwidth of the emission being measured.
 - VBW ≥ RBW.
 - Sweep: Auto.
 - Detector function: Peak.
 - Trace: Max hold.
- Allow trace to stabilize.
- Use the marker-to-peak function to set the marker to the peak of the emission.
- The indicated level is the peak output power, after any corrections for external attenuators and cables.
- A plot of the test results and setup description shall be included in the test report.

3.4 Test Results of Output Power

TestMode	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Gain[dBi]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
LORA	902.50	20.98	≤30	2.36	23.34	≤36	PASS
LORA	915.25	20.96	≤30	2.36	23.32	≤36	PASS
LORA	927.49	20.67	≤30	2.36	23.03	≤36	PASS

Note: Conducted Peak Power is from the certified Lora module report: HX250516R001. EIRP is re-calculated with the antenna gain: 2.36dBi.

4 Radiated Emissions

Test result: Pass

4.1 Limit

The radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified showed as below:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

4.2 Measurement Procedure

For Radiated emission below 30MHz:

- The EUT was placed on the top of a rotating table 0.8 meters (0.1 meters for floor-standing device) above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, the lowest height of the magnetic antenna was 1 m above the ground.
- Both X and Y axes of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

TEST REPORT**For Radiated emission above 30MHz:**

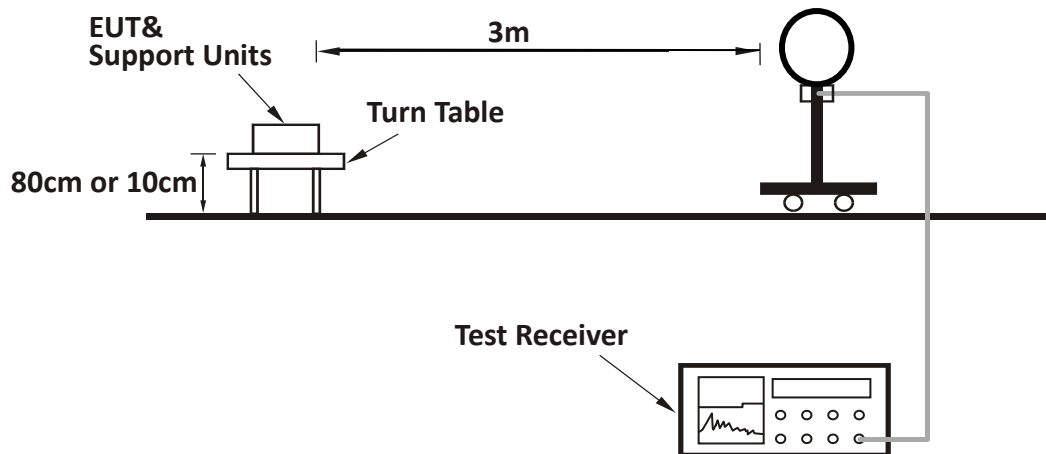
- a) The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) or 0.1 meters (for floor-standing device) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) The 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.
- 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 1 GHz.
- f) 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. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

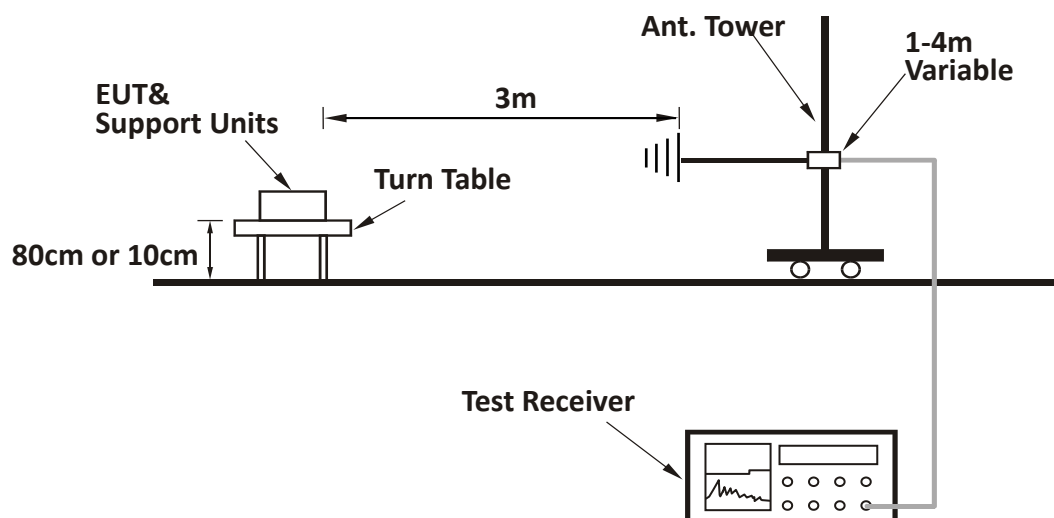
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 3 x RBW (Duty cycle $\geq$ 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported

4.3 Test Configuration

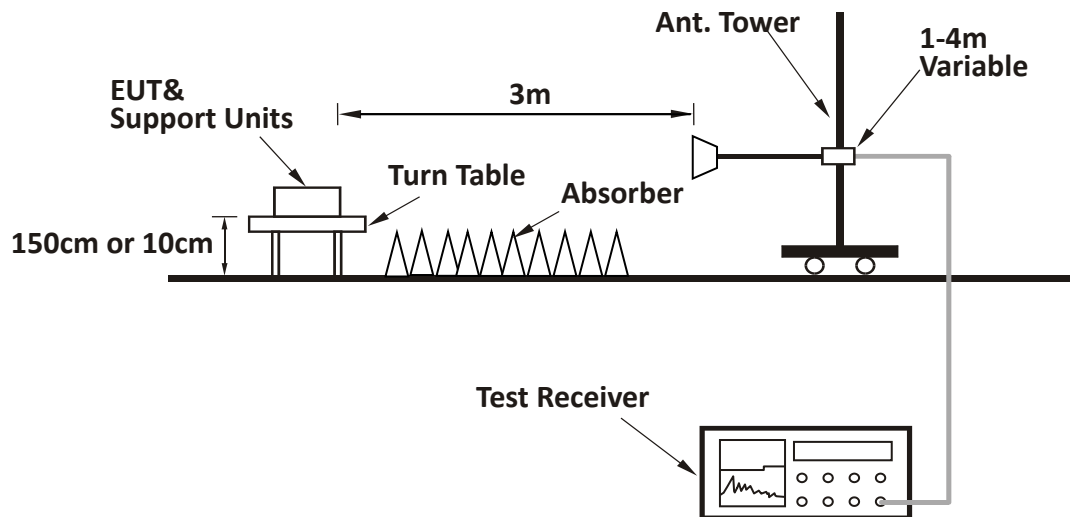
For Radiated emission below 30MHz:



For Radiated emission 30MHz to 1GHz:

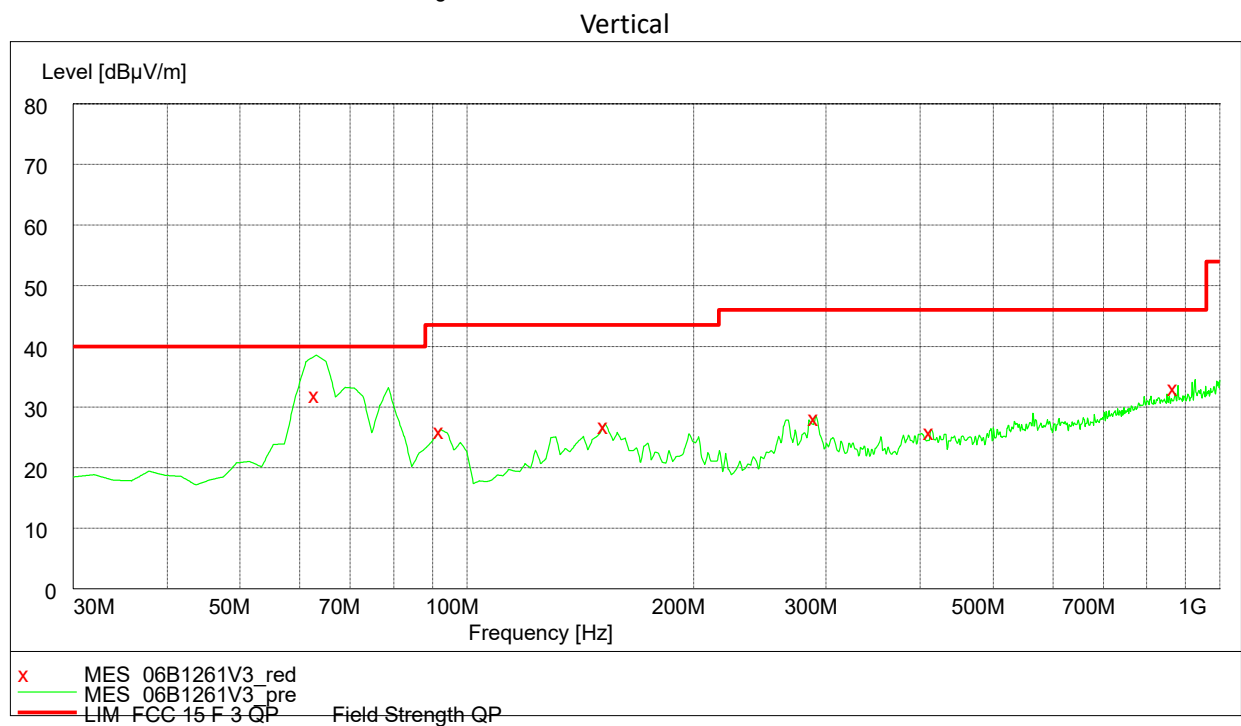
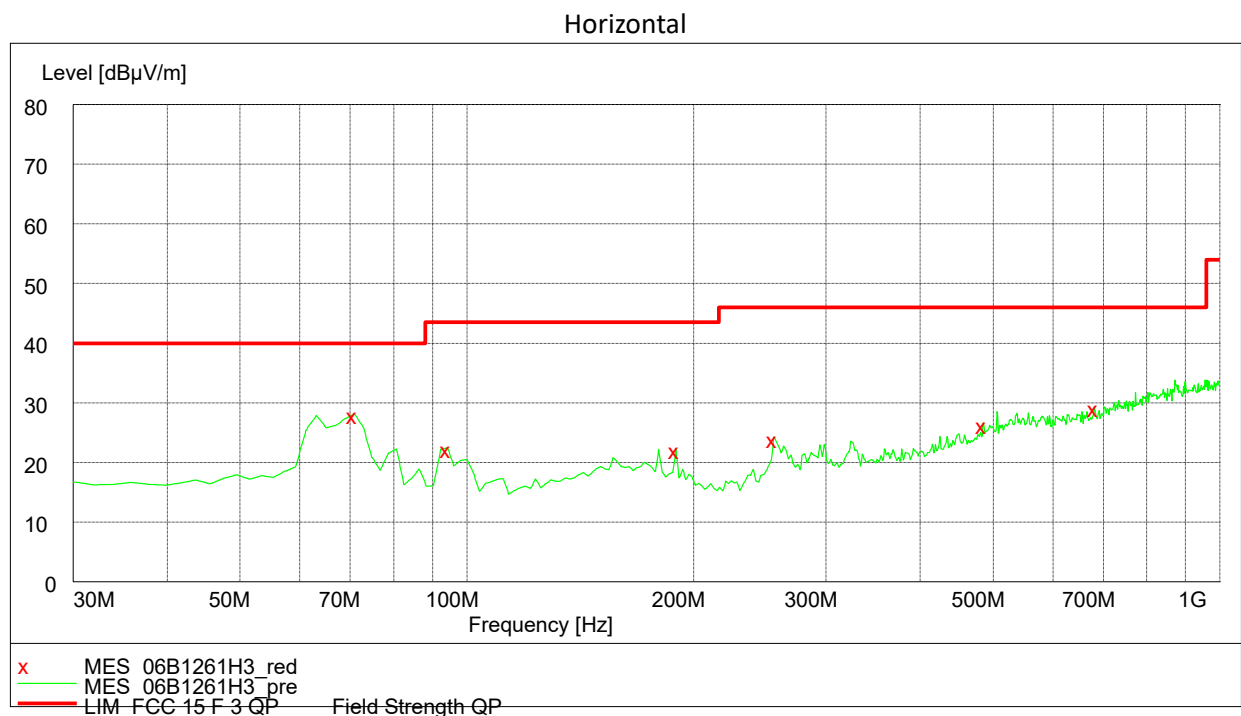


For Radiated emission above 1GHz:



4.4 Test Results of Radiated Emissions

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

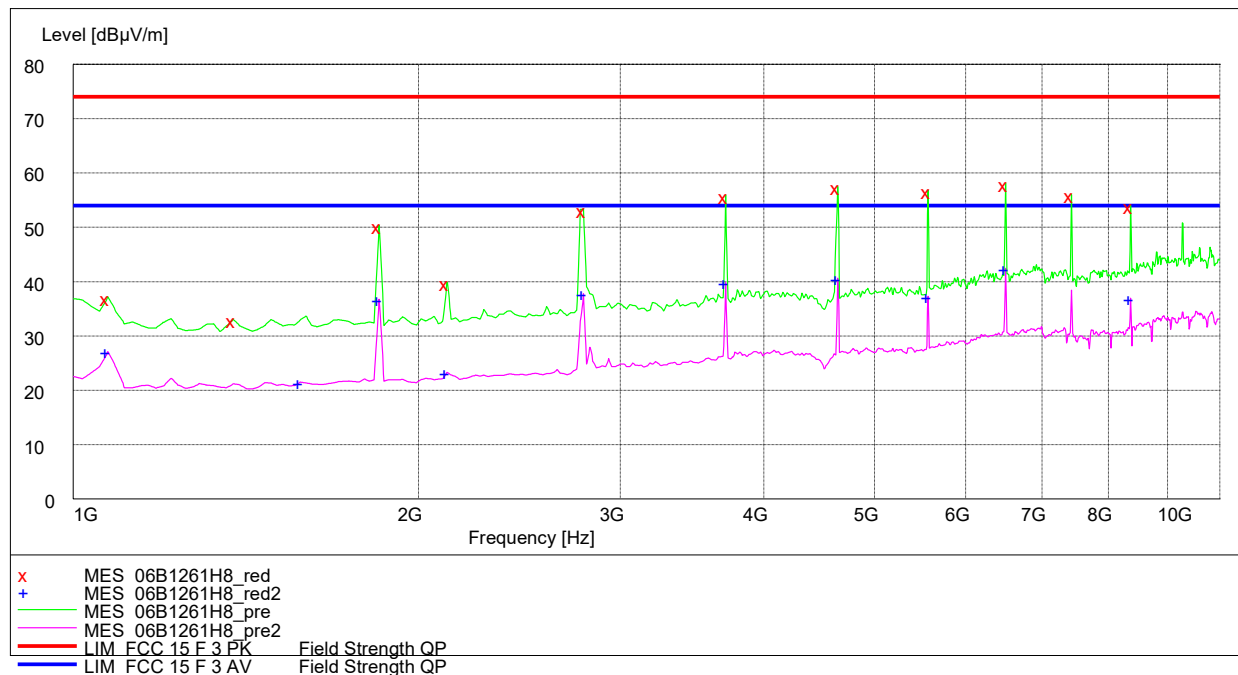


TEST REPORT

Test data below 1GHz

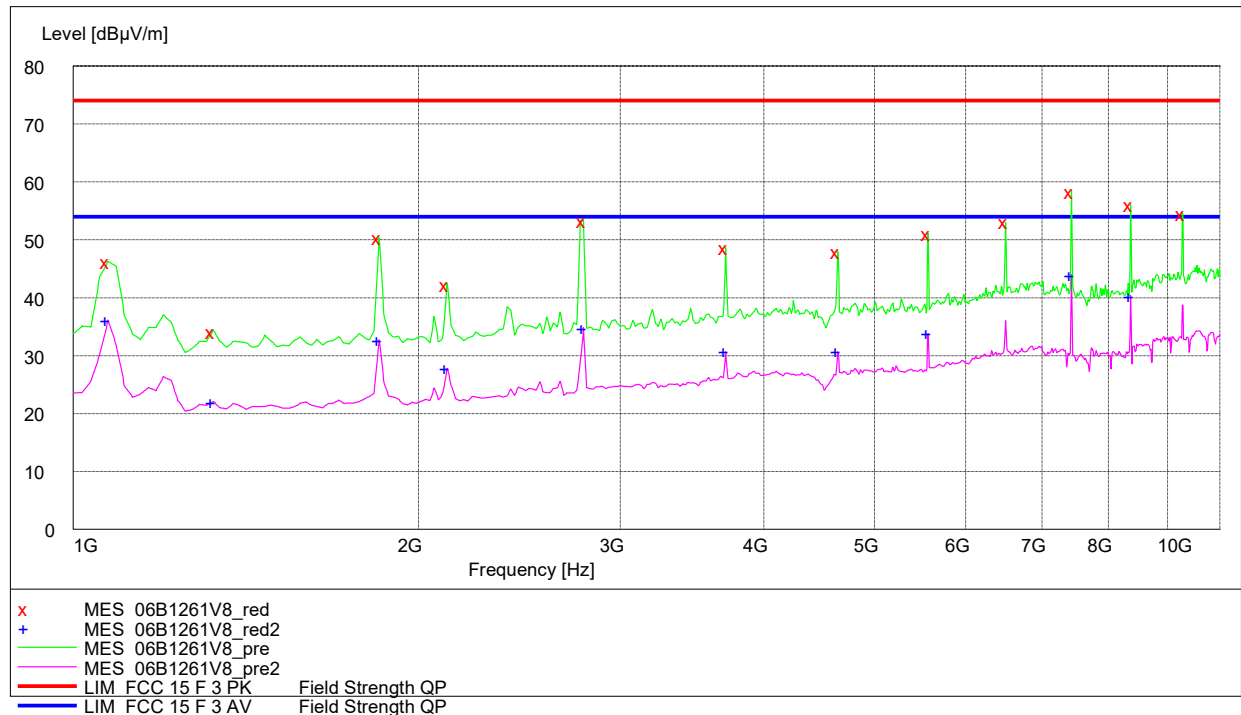
Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	70.82	28.10	12.50	40.00	11.90	PK
H	94.15	22.40	9.20	43.50	21.10	PK
H	189.40	22.20	12.20	43.50	21.30	PK
H	255.49	24.20	13.70	46.00	21.80	PK
H	484.87	26.50	19.80	46.00	19.50	PK
H	681.20	29.30	23.30	46.00	16.70	PK
H	960.00	34.50	26.40	46.00	11.50	PK
V	63.05	32.37	13.70	40.00	7.63	QP
V	92.20	26.30	9.00	43.50	17.20	PK
V	152.46	27.20	14.90	43.50	16.30	PK
V	290.48	28.50	14.80	46.00	17.50	PK
V	412.95	26.20	17.90	46.00	19.80	PK
V	869.76	33.50	26.00	46.00	12.50	PK
V	960.00	34.20	26.40	46.00	11.80	PK

Horizontal



TEST REPORT

Vertical



Note: Highest channel

Test result of 1GHz to 10GHz:

CH	Antenna	Frequency (MHz)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H/V	7220.00	-9.00	51.94	74.00	22.06	PK
	H/V	8122.50	-7.80	51.33	74.00	22.67	PK
M	H/V	1830.50	-22.50	49.02	74.00	24.98	PK
	H/V	2745.75	-19.60	52.65	74.00	21.35	PK
	H/V	5491.50	-14.20	49.17	74.00	24.83	PK
	H/V	6406.75	-10.80	50.23	74.00	23.77	PK
	H/V	7322.00	-9.00	58.23	74.00	15.77	PK
	H/V	7322.00	-9.00	49.68	54.00	4.32	AV
	H/V	8237.25	-7.40	56.72	74.00	17.28	PK
	H/V	8237.25	-7.40	48.28	54.00	5.72	AV
	H/V	9152.50	-6.40	53.52	74.00	20.48	PK
	H/V	9152.50	-6.40	45.19	54.00	8.81	AV
H	H/V	1854.98	-22.40	50.41	74.00	23.59	PK
	H/V	2782.47	-19.40	53.32	74.00	20.68	PK
	H/V	2782.47	-19.40	44.65	54.00	9.35	AV
	H/V	3709.96	-16.80	55.94	74.00	18.06	PK

TEST REPORT

H/V	3709.96	-16.80	47.73	54.00	6.27	AV
H/V	4637.45	-15.20	57.65	74.00	16.35	PK
H/V	4637.45	-15.20	49.14	54.00	4.86	AV
H/V	5564.94	-13.90	56.86	74.00	17.14	PK
H/V	5564.94	-13.90	48.47	54.00	5.53	AV
H/V	6492.43	-10.60	58.17	74.00	15.83	PK
H/V	6492.43	-10.60	49.58	54.00	4.42	AV
H/V	7419.92	-8.70	58.52	74.00	15.48	PK
H/V	7419.92	-8.70	50.11	54.00	3.89	AV
H/V	8347.41	-7.00	56.15	74.00	17.85	PK
H/V	8347.41	-7.00	47.69	54.00	6.31	AV
H/V	9274.90	-5.80	54.65	74.00	19.35	PK
H/V	9274.90	-5.80	46.27	54.00	7.73	AV

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
2. Corrected Reading = Original Receiver Reading + Correct Factor
3. Margin = Limit - Corrected Reading
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV,
Limit = 40.00dBuV/m.
Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m;
Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m;
Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB.

5 Power line conducted emission

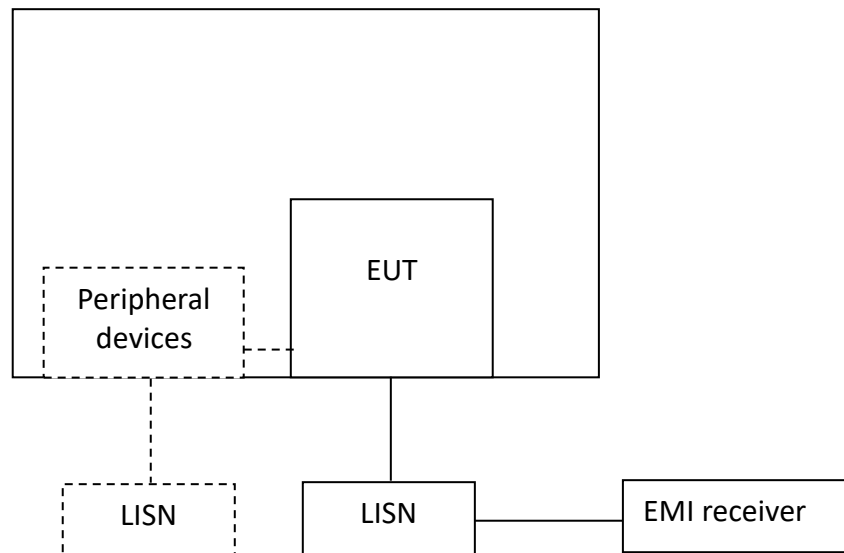
Test result: Pass

5.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	QP	AV
0.15-0.5	66 to 56*	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

5.2 Test Configuration



5.3 Measurement Procedure

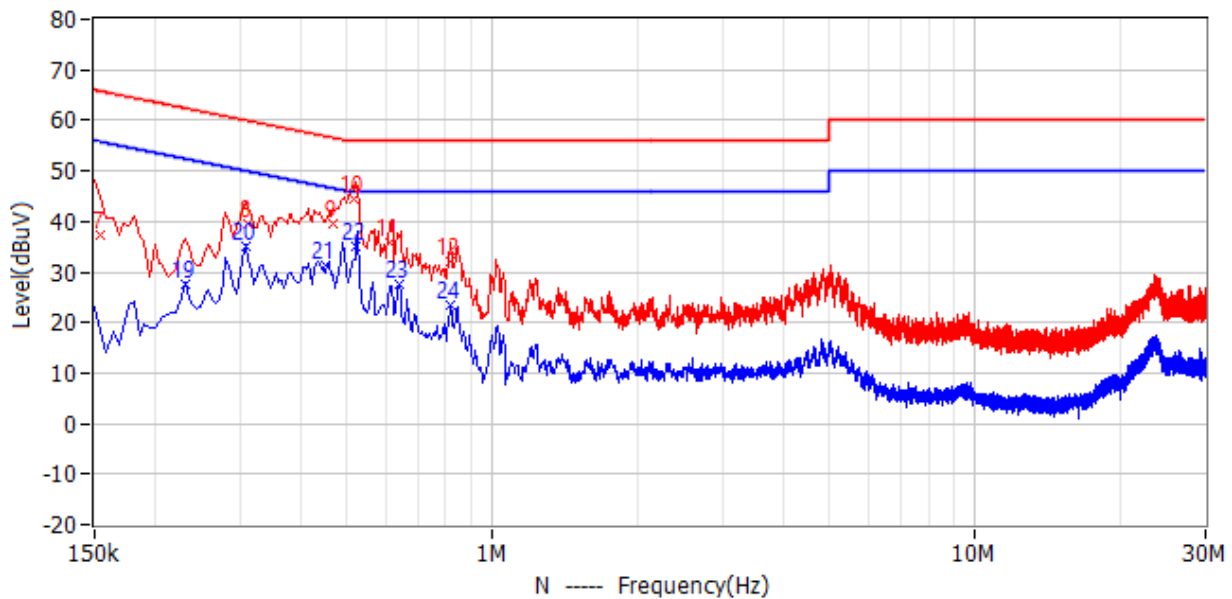
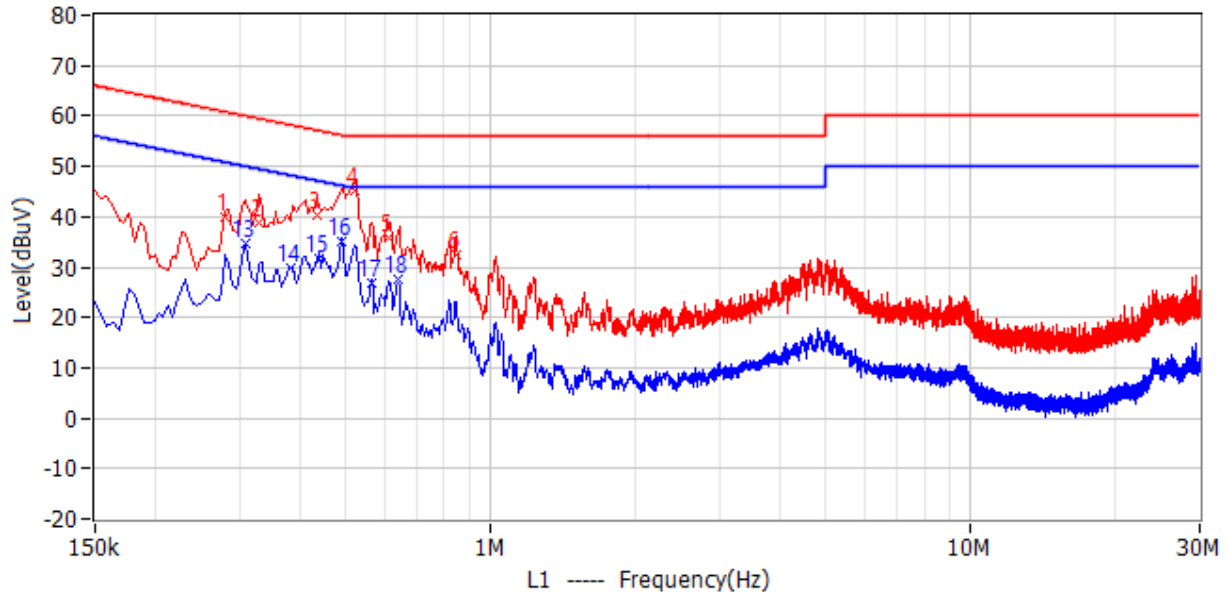
Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.

5.4 Test Results of Power line conducted emission

Power supply: 120V~, 60Hz



No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector	Phase
1	280.500kHz	60.80	39.93	-20.87	29.73	10.20	QP	L1
2	330.000kHz	59.45	38.62	-20.83	28.42	10.20	QP	L1
3	433.500kHz	57.19	40.28	-16.91	30.08	10.20	QP	L1
4	519.000kHz	56.00	45.00	-11.00	34.80	10.20	QP	L1
5	613.500kHz	56.00	35.89	-20.11	25.69	10.20	QP	L1
6	847.500kHz	56.00	32.28	-23.72	21.98	10.30	QP	L1
7	154.500kHz	65.75	37.31	-28.44	27.21	10.10	QP	N

TEST REPORT

No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector	Phase
8	312.000kHz	59.92	39.47	-20.45	29.37	10.10	QP	N
9	469.500kHz	56.52	39.50	-17.02	29.30	10.20	QP	N
10	514.500kHz	56.00	44.49	-11.51	34.29	10.20	QP	N
11	613.500kHz	56.00	35.79	-20.21	25.59	10.20	QP	N
12	820.500kHz	56.00	31.98	-24.02	21.68	10.30	QP	N
13	307.500kHz	50.04	34.58	-15.46	24.38	10.20	CAV	L1
14	384.000kHz	48.19	29.93	-18.26	19.73	10.20	CAV	L1
15	438.000kHz	47.10	31.78	-15.32	21.58	10.20	CAV	L1
16	487.500kHz	46.21	34.92	-11.29	24.72	10.20	CAV	L1
17	564.000kHz	46.00	26.97	-19.03	16.77	10.20	CAV	L1
18	640.500kHz	46.00	27.72	-18.28	17.52	10.20	CAV	L1
19	231.000kHz	52.41	27.57	-24.84	17.47	10.10	CAV	N
20	307.500kHz	50.04	34.95	-15.09	24.85	10.10	CAV	N
21	451.500kHz	46.85	31.15	-15.70	20.95	10.20	CAV	N
22	523.500kHz	46.00	35.08	-10.92	24.88	10.20	CAV	N
23	640.500kHz	46.00	27.66	-18.34	17.46	10.20	CAV	N
24	820.500kHz	46.00	23.36	-22.64	13.06	10.30	CAV	N

Remark: 1. Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.
2. Level = Original Receiver Reading + Factor
3. Delta = Level- Limit
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

6 Antenna requirement

Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

Result:

EUT uses a permanently attached antenna to the intentional radiator, so it can comply with the provisions of this section.

***** END *****