

Casta Diva (Xiamen) Network Technology Co., Ltd.

RF TEST REPORT

Report Type:

FCC Part 15.249 RF report

Model:

CD-K010

REPORT NUMBER:

230600106SHA-001

ISSUE DATE:

October 9, 2023

DOCUMENT CONTROL NUMBER:

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Manufacturer: Casta Diva (Xiamen) Network Technology Co., Ltd
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Manufacturer Site: QUANZHOU KOMOO INTELLIGENT KITCHEN & BATH CO., LTD
NO. 1199 Maosheng Road, Economic Development Zone, Nan'an
City, Fujian Province

Product Name: Integrated Smart Toilet

Type/Model: CD-K010

FCC ID: 2BBVECDK010

SUMMARY:

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

47CFR Part 15 (2021): Radio Frequency Devices (Subpart C)

ANSI C63.10 (2013): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

PREPARED BY:



Project Engineer
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REVIEWED BY:



Reviewer
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Revision History

Report No.	Version	Description	Issued Date
230302238SHA-001	Rev. 01	Initial issue of report	October 9, 2023

Measurement result summary

TEST ITEM	FCC REFERENCE	RESULT
Radiated Emissions	15.245(b)&15.209	Pass
Power line conducted emission	15.207(a)	Pass
Assigned bandwidth (20dB bandwidth)	15.215(c)	Pass
Antenna requirement	15.203	Pass

Notes: 1: NA =Not Applicable

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Integrated Smart Toilet
Type/Model:	CD-K010
Description of EUT:	The EUT is a integrated Smart Toilet, it has only one model.
Rating:	AC 120V, 60Hz, 1000W MAX
Category of EUT:	Class B
EUT type:	<input type="checkbox"/> Table top <input checked="" type="checkbox"/> Floor standing
Software Version:	1.0
Hardware Version:	1.0
Sample received date:	June 8, 2023
Date of test:	June 8, 2023 ~ October 8, 2023

1.2 Technical Specification

Frequency Range:	24000MHz ~ 24250MHz
Type of Modulation:	FSK
Channel Number:	1
Antenna Information:	Integrated antenna

1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
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 L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-4243, G-845, C-4723, T-2252
	NVLAP Accreditation Lab NVLAP LAB CODE: 200849-0
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2021)
ANSI C63.10 (2013)

2.2 Mode of operation during the test

The channel was tested as representatives.

Frequency Band (MHz)				24075 ~ 24175			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	24150	-	-	-	-	-	-

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

2.5 Test environment condition:

Test items	Temperature	Humidity
Minimum 6dB Bandwidth	23°C	52% RH
Maximum conducted output power and e.i.r.p.		
Power spectrum density		

Emission outside the frequency band		
Occupied bandwidth		
Radiated Emissions in restricted frequency bands	22°C	55% RH
Power line conducted emission	21°C	52% RH

2.6 Instrument list

Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESR7	EC 6194	2024-02-08
<input checked="" type="checkbox"/>	A.M.N.	R&S	ESH2-Z5	EC 3119	2023-11-09
<input type="checkbox"/>	A.M.N.	R&S	ENV4200	EC 3558	2024-06-05
<input checked="" type="checkbox"/>	Attenuator	Hua Xiang	Ts5-10db-6g	EC 6194-1	2023-12-07
<input checked="" type="checkbox"/>	Shielded room	Zhongyu	-	EC 2838	2024-01-11
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESIB 26	EC 3045	2023-07-18
<input checked="" type="checkbox"/>	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2024-03-05
<input checked="" type="checkbox"/>	Bilog Antenna	TESEQ	CBL 6112B	EC 6411	2024-08-22
<input type="checkbox"/>	Pre-amplifier	R&S	AFS42-00101800-25-S-42	EC 5262	2024-06-15
<input checked="" type="checkbox"/>	Pre-amplifier	Tonscend	tap01018050	EC 6432-1	2023-12-07
<input checked="" type="checkbox"/>	Horn antenna	Tonscend	bha9120d	EC 6432-2	2024-02-15
<input checked="" type="checkbox"/>	Horn antenna	ETS	3116c	EC 5955	2024-06-16
<input checked="" type="checkbox"/>	WW wave antenna (40-60G)	HengDa	HD-500SGAH25	EC 6529	2024-03-28
<input checked="" type="checkbox"/>	Mixer (40-60G)	Keysight	M19RH	EC 6529-1	2024-03-09
<input checked="" type="checkbox"/>	WW wave antenna (60-90G)	HengDa	HD-620SGAH25	EC 6382	2024-03-28
<input checked="" type="checkbox"/>	Mixer (60-90G)	Keysight	M12RH	EC 6382-1	2024-03-14
<input checked="" type="checkbox"/>	WW wave antenna (90-140G)	HengDa	HD-900SGAH25	EC 6383	2024-03-28
<input checked="" type="checkbox"/>	Mixer (90-140G)	Keysight	M8RH	EC 6383-1	2024-03-28
<input checked="" type="checkbox"/>	Semi-anechoic chamber	Albatross project	-	EC 3048	2024-07-08
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Therom-Hygrograph	ZJ1-2A	S.M.I.F.	EC 3783	2024-03-24
<input checked="" type="checkbox"/>	Pressure meter	YM3	Shanghai Mengde	EC 3320	2024-08-16

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	$\pm 2.89\text{dB}$

3 Radiated Emissions

Test result: Pass

3.1 Limit

Fundamental Frequency (MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (millivolts/meter)
902 - 928	94	54
2400 - 2483.5	94	54
5725 - 5875	94	54
24000 - 24250	108	68

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	$2400/F(\text{kHz})$	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

3.2 Measurement Procedure

For Radiated emission below 30MHz:

- The EUT was placed on the top of a rotating table 0.8 meters 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, which was mounted on the top of a variable-height antenna tower.
- 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.

TEST REPORT**NOTE:**

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

For Radiated emission above 30MHz:

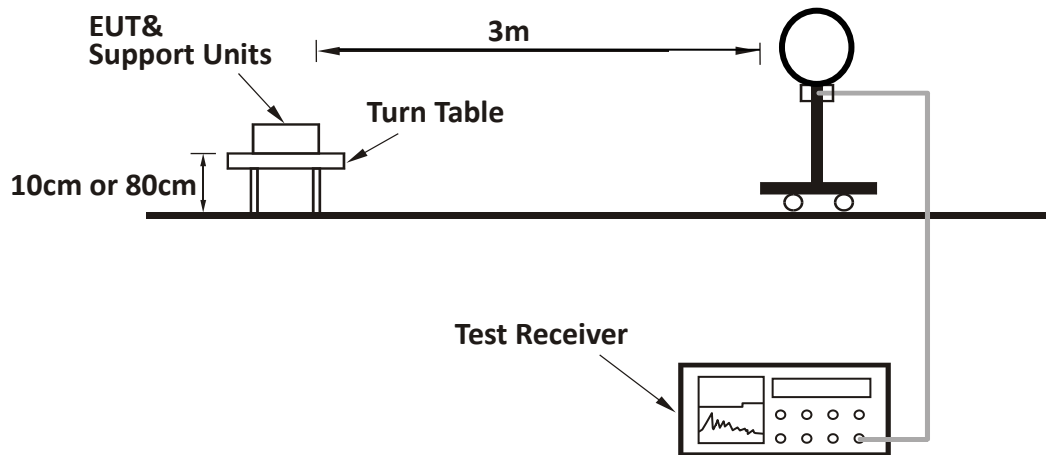
- a) The EUT was placed on the top of a rotating table 0.01 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) The EUT was set 3 or 1 meters away from the 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:

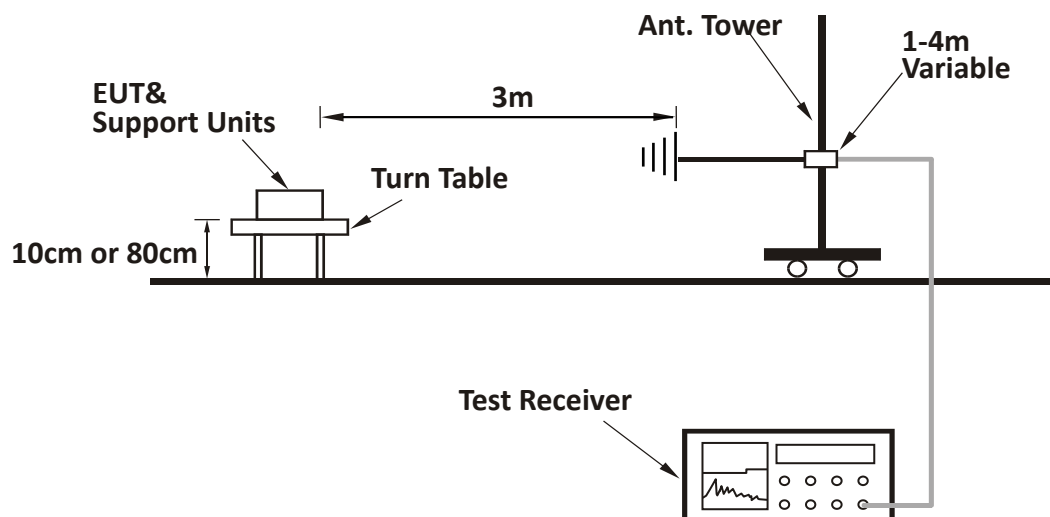
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or $3 \times \text{RBW}$ (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

3.3 Test Configuration

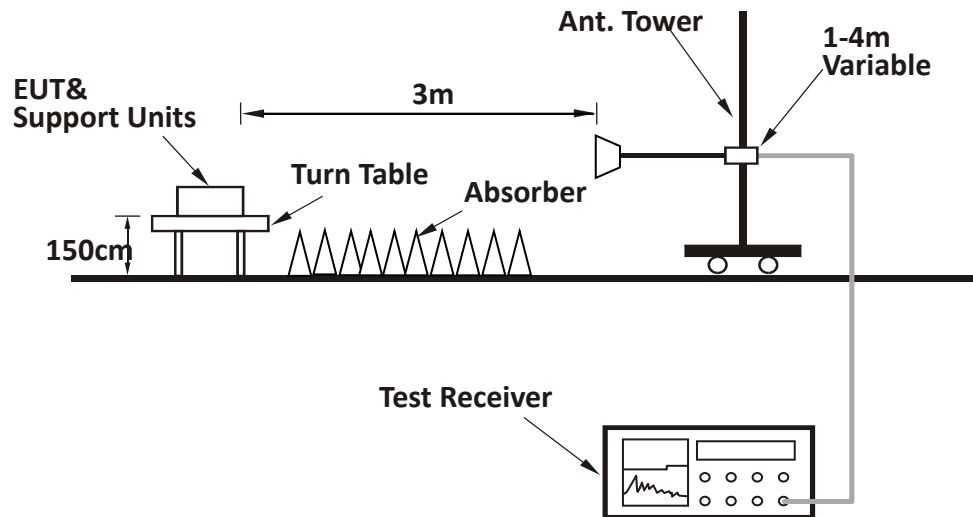
For Radiated emission below 30MHz:



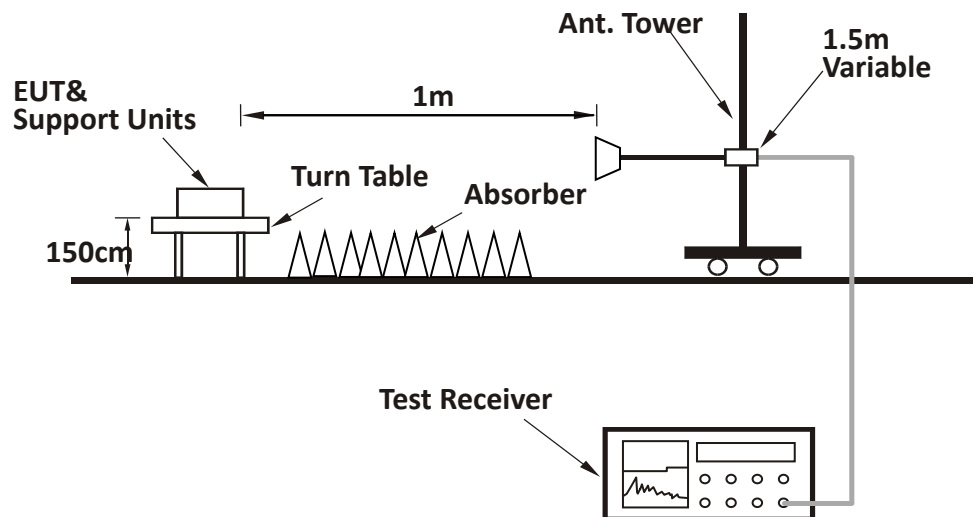
For Radiated emission 30MHz to 1GHz:



For Radiated emission 1GHz to 40GHz:



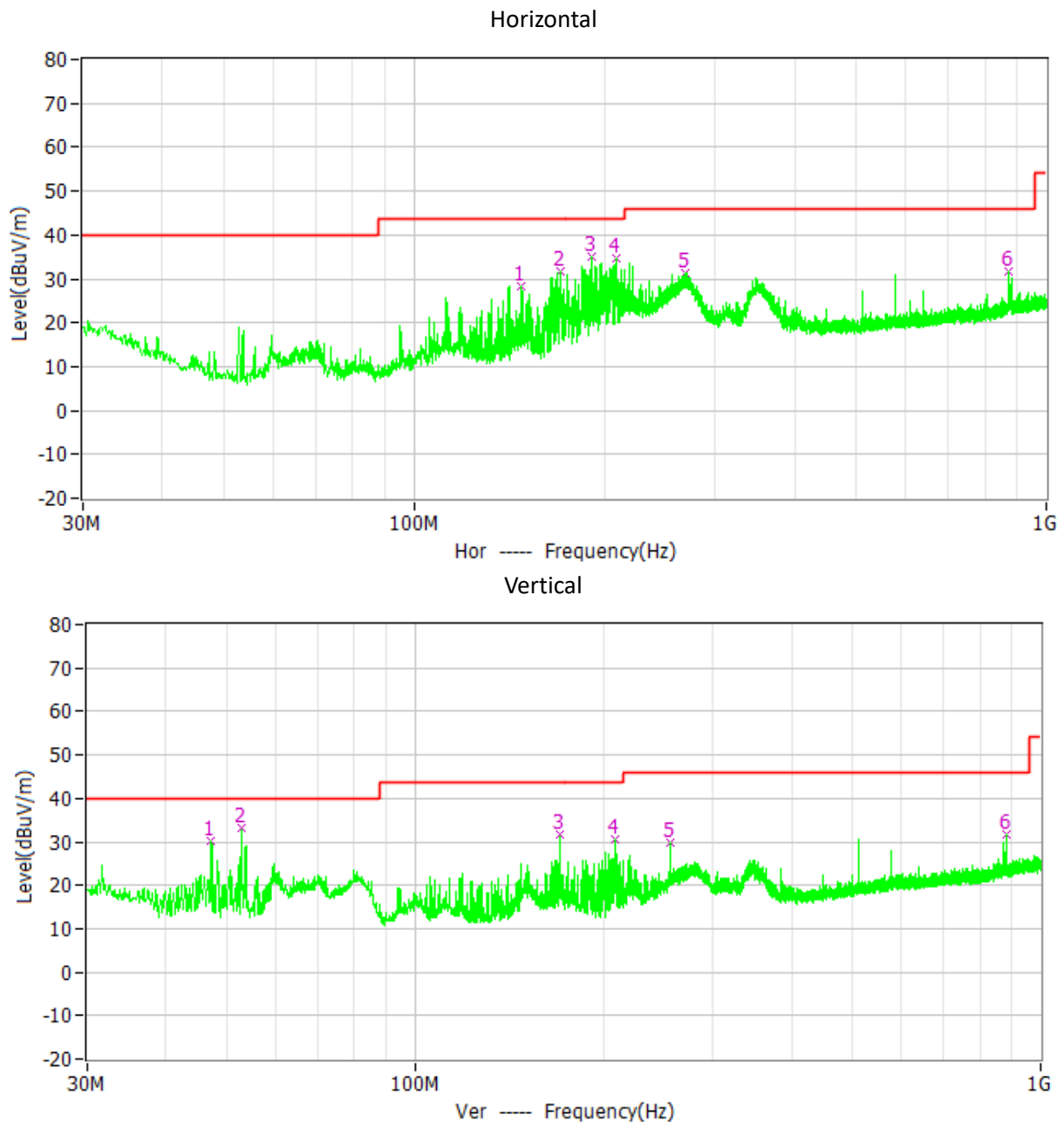
For Radiated emission above 40GHz:



3.4 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.

The worst waveform from 30MHz to 1000MHz is listed as below:



TEST REPORT

Test data below 1GHz

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	148.243	28.5	12.1	43.5	15.0	QP
H	170.359	31.5	11.1	43.5	12.0	QP
H	190.729	35.1	10.8	43.5	8.4	QP
H	209.450	34.5	10.9	43.5	9.0	QP
H	269.105	31.4	15.1	46.0	14.6	QP
H	871.087	31.7	23.7	46.0	14.3	QP
V	47.363	30.3	10.6	40.0	9.7	QP
V	52.892	33.0	8.8	40.0	7.0	QP
V	170.747	31.5	11.0	43.5	12.0	QP
V	208.771	30.5	10.9	43.5	13.0	QP
V	256.010	29.9	14.8	46.0	16.1	QP
V	879.817	31.5	23.8	46.0	14.5	QP

Test result above 1GHz:

Antenna	Frequency Band (GHz)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	24.00 ~ 24.25	84.21	128	43.79	PK
H		63.95	108	44.05	AV
V		79.85	128	48.15	PK
V		59.92	108	48.08	AV

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	23915	52.65	74.00	21.35	PK
H	24000	52.54	74.00	21.46	PK
H	24250	52.85	74.00	21.15	PK
H	24316	53.12	74.00	20.88	PK
V	23805	52.52	74.00	21.48	PK
V	24000	52.30	74.00	21.70	PK
V	24250	53.14	74.00	20.86	PK
V	24355	53.35	74.00	20.65	PK

TEST REPORT

The emission was conducted from 1GHz to 40GHz

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	7200	64.10	74.00	9.9	PK
H	7200	38.80	54.00	15.2	AV
H	16978	68.80	74.00	5.2	PK
H	16978	47.50	54.00	6.5	AV
H	19670	55.06	74.00	18.94	PK
H	19670	44.32	54.00	9.68	AV
H	38636	43.56	74.00	30.44	PK
H	38636	41.86	54.00	12.14	AV
V	2397	50.1	74.00	23.9	PK
V	17148	65.9	74.00	8.1	PK
V	17148	36.1	54.00	17.9	AV
V	19804	54.62	74.00	19.38	PK
V	19804	42.68	54.00	11.32	AV
V	39215	53.27	74.00	20.73	PK

- 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.

The emission was conducted from 40GHz to 100GHz

Antenna	Frequency (MHz)	Measured Level (dBm)	Antenna Gain (dBi)	Level@1m (dBuV/m)	Level@3m (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	48300	-62.7	23.25	84.987	75.444	88.0	12.556	PK
H	48300	-81.6	23.25	66.087	56.544	68.0	11.456	AV
H	72450	-60.1	23.60	90.758	81.216	88.0	6.784	PK
H	72450	-80.7	23.60	70.158	60.616	68.0	7.384	AV
H	96660	-61.7	22.70	92.563	83.020	88.0	4.980	PK
H	96660	-81.5	22.70	72.763	63.220	68.0	4.780	AV
V	48300	-64.7	23.25	82.987	73.444	88.0	14.556	PK
V	48300	-82.5	23.25	65.187	55.644	68.0	12.356	AV

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V	72450	-62.8	23.60	88.058	78.516	88.0	9.484	PK
V	72450	-81.4	23.60	69.458	59.916	68.0	8.084	AV
V	96660	-62.2	22.70	92.063	82.520	88.0	5.480	PK
V	96660	-82.9	22.70	71.363	61.820	68.0	6.180	AV

Remark: 1. Correct Factor = Antenna Factor + Cable Loss + Mixer Conversion Loss, the value was added to Original Receiver Reading by the software automatically.

2. $\text{Level@1m} = 126.8 - 20\log(\lambda) + P - G$

where (According to ANSI 63.10 section 9.4):

E is the field strength of the emission at the measurement distance, in dBμV/m

P is the power measured at the output of the test antenna, in dBm

λ is the wavelength of the emission under investigation [300/fMHz], in m

G is the gain of the test antenna, in dBi

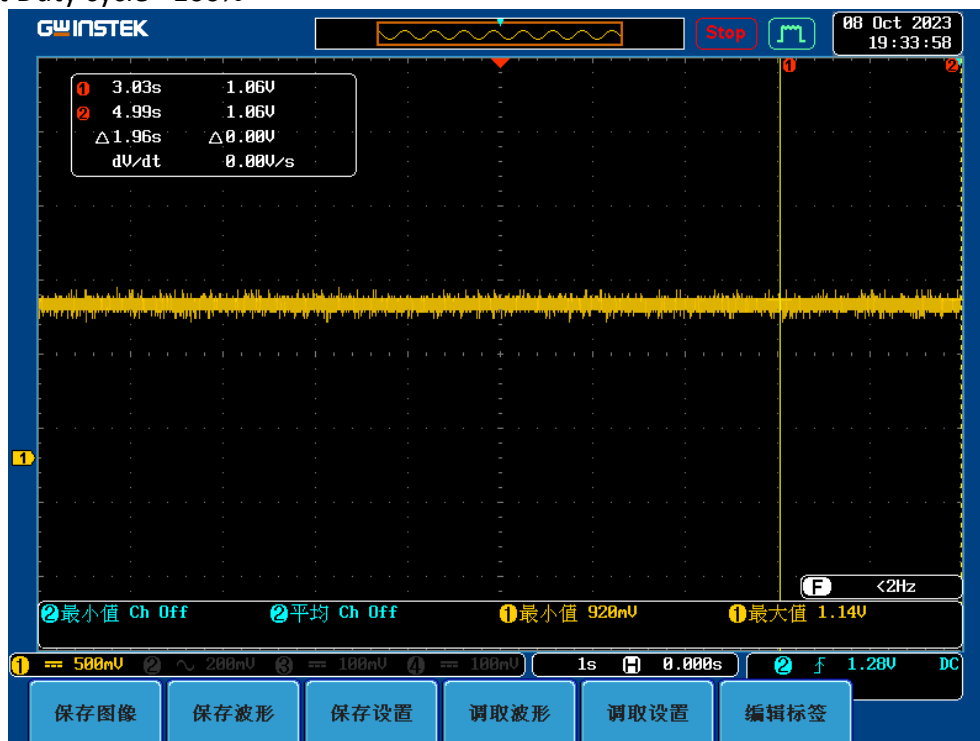
3. Margin = Limit - Level@1m

4. $\text{Level@3m} = \text{Level@1m} + 20\log(1\text{m}/3\text{m})$.

3.5 Duty Cycle:

The test data with maximum duty cycle was listed below.

The worst Duty cycle= 100%



4 Power line conducted emission

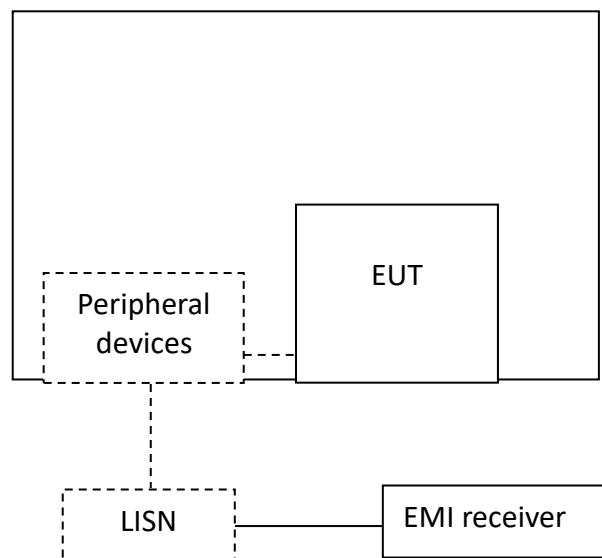
Test result: Pass

4.1 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.

4.2 Test Configuration



4.3 Measurement Procedure

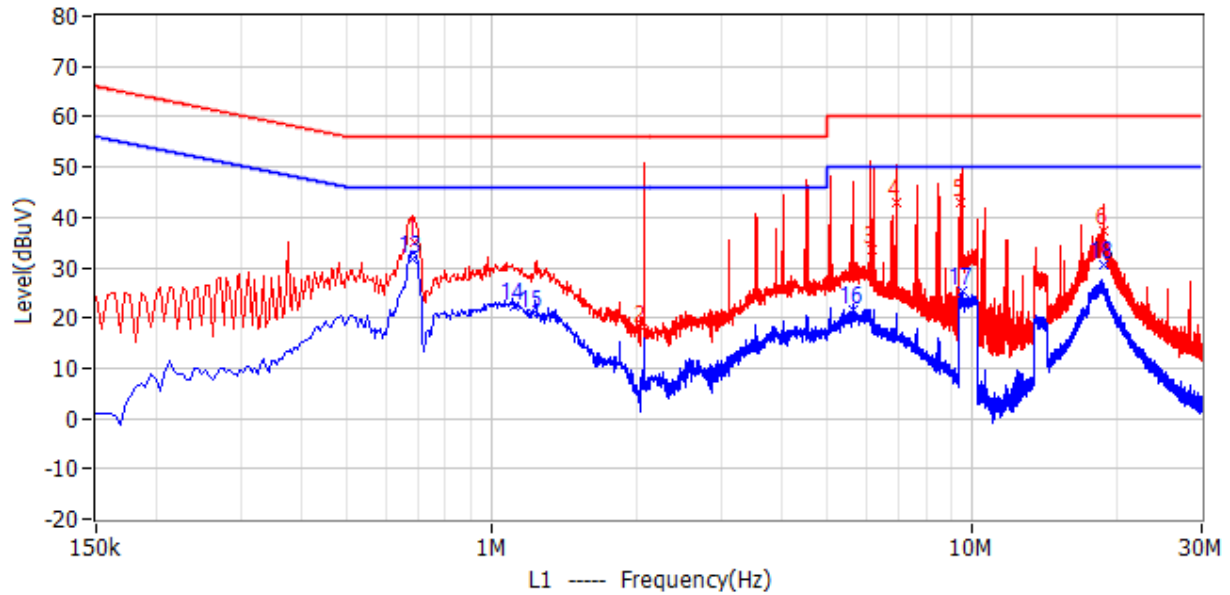
Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be 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.

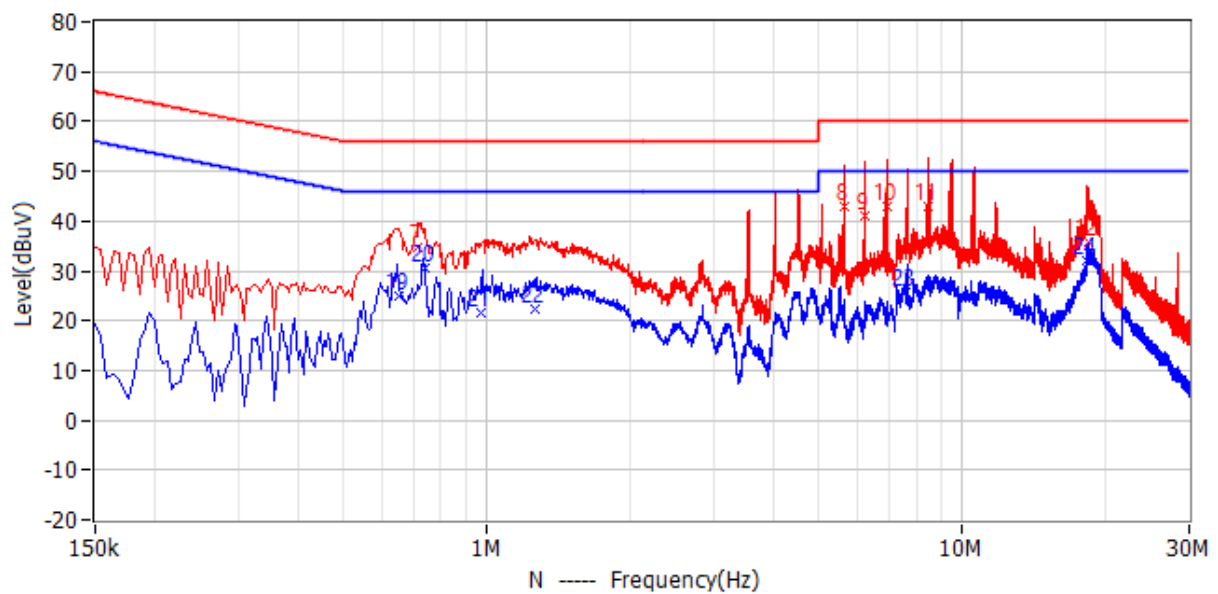
The bandwidth of the test receiver is set at 9 kHz.

4.4 Test Results of Power line conducted emission

L line



N line



TEST REPORT

Test Data:

No.	Frequency	Limit dBuV	Level dBuV	Margin dB	Reading dBuV	Factor dB	Detector	Phase
1	690.000kHz	56.0	35.1	20.9	28.9	6.2	QP	L1
2	2.049MHz	56.0	17.9	38.1	11.7	6.2	QP	L1
3	6.171MHz	60.0	33.6	26.4	27.3	6.3	QP	L1
4	6.923MHz	60.0	43.0	17.0	36.7	6.3	QP	L1
5	9.488MHz	60.0	42.9	17.1	36.6	6.3	QP	L1
6	18.713MHz	60.0	37.3	22.7	30.9	6.4	QP	L1
7	717.000kHz	56.0	34.6	21.4	28.3	6.3	QP	N
8	5.636MHz	60.0	43.1	16.9	36.7	6.4	QP	N
9	6.243MHz	60.0	41.0	19.0	34.6	6.4	QP	N
10	6.927MHz	60.0	42.8	17.2	36.4	6.4	QP	N
11	8.507MHz	60.0	42.8	17.2	36.4	6.4	QP	N
12	18.384MHz	60.0	35.7	24.3	29.2	6.5	QP	N
13	681.000kHz	46.0	31.6	14.4	25.4	6.2	AV	L1
14	1.109MHz	46.0	22.2	23.8	16.0	6.2	AV	L1
15	1.217MHz	46.0	21.0	25.0	14.8	6.2	AV	L1
16	5.640MHz	50.0	21.5	28.5	15.2	6.3	AV	L1
17	9.492MHz	50.0	25.5	24.5	19.2	6.3	AV	L1
18	18.740MHz	50.0	30.4	19.6	24.0	6.4	AV	L1
19	654.000kHz	46.0	25.0	21.0	18.7	6.3	AV	N
20	744.000kHz	46.0	30.6	15.4	24.3	6.3	AV	N
21	973.500kHz	46.0	21.6	24.4	15.3	6.3	AV	N
22	1.266MHz	46.0	22.2	23.8	15.9	6.3	AV	N
23	7.598MHz	50.0	25.7	24.3	19.3	6.4	AV	N
24	18.263MHz	50.0	32.1	17.9	25.6	6.5	AV	N

Remark: 1. Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.

2. Level = Reading + Factor

3. Margin = Limit - Level

4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

5 Assigned bandwidth (20dB bandwidth)

Test result: Pass

5.1 Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emission is contained within the allocated frequency band.

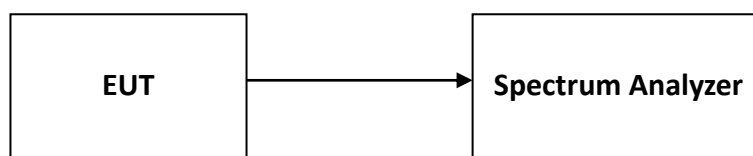
5.2 Measurement Procedure

The 20dB Bandwidth is measured using the Spectrum Analyzer.

Set Span = 2 to 3 times the 20 dB bandwidth, RBW = approximately 1% of the 20 dB bandwidth, VBW>RBW, Sweep = auto, Detector = peak, Trace = max hold.

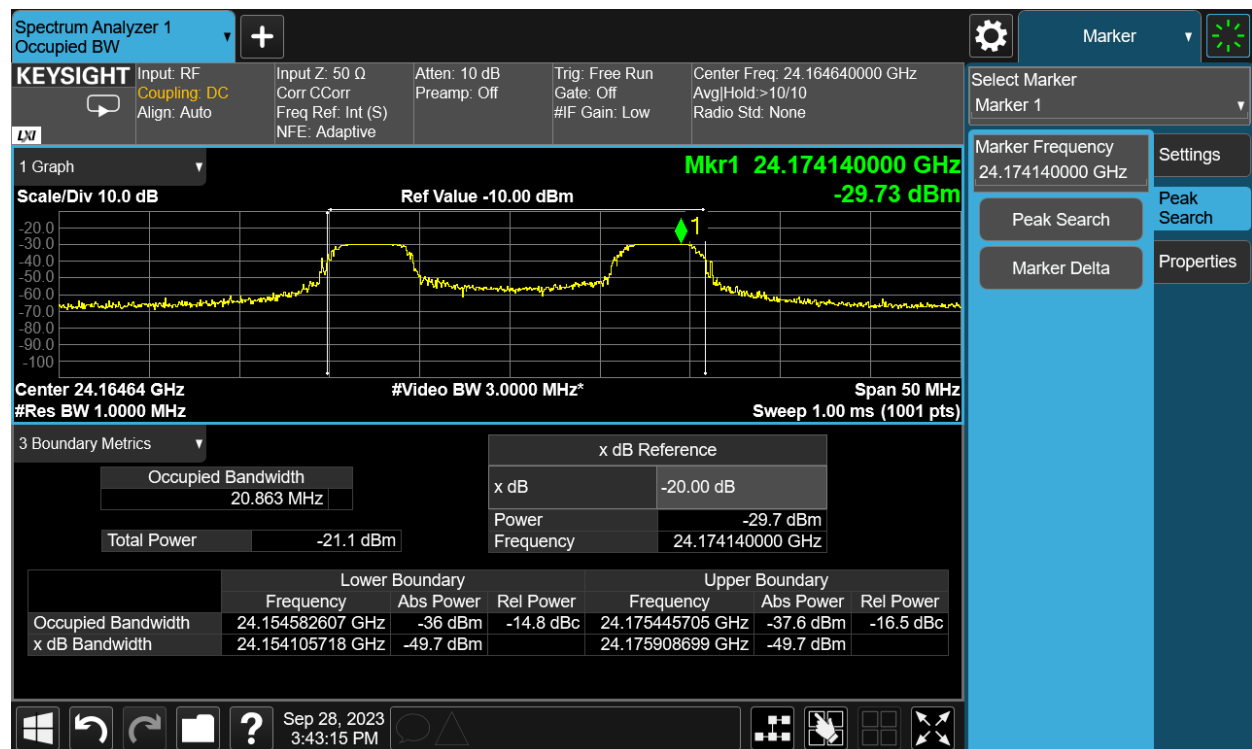
The test was performed at 2 channels (lowest and highest channel).

5.3 Test Configuration



5.4 The results

Frequency band (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)	F _L at 20dB BW (MHz)	F _H at 20dB BW (MHz)
24000 ~ 24250	24154.11	24154.58	>24000	/
	24175.91	24175.44	/	<24250
Limit	N/A	N/A	F _L > 24000	F _H < 24250
Result	Complied			



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

***** END *****