Xiamen Rongji Precision Technology Co., Ltd

RF TEST REPORT

Report Type:
FCC Part 15.249&RSS 210 RF report

Model:
TC012B-311A, TC012B-311B, CSTPA0, CSTPB0

REPORT NUMBER:
2502B1957SHA-001

ISSUE DATE:
June 23, 2025

DOCUMENT CONTROL NUMBER:
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Total Quality. Assured.

TEST REPORT

Report no.: 2502B1957SHA-001

Applicant:	Xiamen Rongji Precision Technology Co., Ltd
	76 Zhaihou North Road, Haicang District, Xiamen
Manufacturer:	Xiamen Rongji Precision Technology Co., Ltd
	76 Zhaihou North Road, Haicang District, Xiamen
Manufacturer Site:	Xiamen Rongji Precision Technology Co., Ltd
	76 Zhaihou North Road, Haicang District, Xiamen
Product Name:	Smart Toilet
Type/Model:	TC012B-311A, TC012B-311B, CSTPA0, CSTPB0
FCC ID:	2AZ8KRJTC012B
IC:	27355-TC012B

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): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

RSS-210 Issue 11 (June 2024): Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

RSS-Gen Issue 5 (February 2021) Amendment 2: General Requirements for Compliance of Radio Apparatus

PREPARED BY:	**REVIEWED BY:**
Project Engineer	Reviewer
Dylan Tang	Wakeyou Wang

TEST REPORT

Content

Revision History

Report No.	Version	Description	Issued Date
2502B1957SHA-001	Rev. 01	Initial issue of report	June 23, 2025

Measurement result summary

TEST ITEM	FCC REFERENCE	IC REFERENCE	RESULT
Radiated Emissions	15.249(b)&15.209	RSS-210 Issue 3 B.10 RSS-Gen Issue 5 Clause 8.9&8.10	Pass
Power line conducted emission	15.207(a)	RSS-Gen Issue 5 Clause 8.8	Pass
20 dB Bandwidth & 99% Occupied Bandwidth	15.215(c)	RSS-Gen Issue 5 Clause 6.7	Pass
Antenna requirement	15.203	-	Pass

Notes: 1: NA =Not Applicable

TEST REPORT

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Smart Toilet
Type/Model:	TC012B-311A, TC012B-311B, CSTPA0, CSTPB0
Description of EUT:	The EUT is Smart Toilet, The differences between TC012B-311A and TC012B-311B is the seat cushion heating function. The models PCB layout and circuit design are the same. CSTPA0 is the same as TC012B-311A except for the model names and color of appearance, and CSTPB0 is the same as TC012B-311B except for the model names. So choose TC012B-311B to test as representative.
Rating:	AC 120V, 60Hz.
Category of EUT:	Class B
EUT type:	☐ Table top ☒ Floor standing
Product Marketing Name:	TC012B-311A, TC012B-311B, CSTPA0, CSTPB0
HVIN:	TC012B-311A, TC012B-311B, CSTPA0, CSTPB0
Software Version:	V1.0
Hardware Version:	4100611-1
Sample received date:	December 10, 2025
Date of test:	December 10, 2025 ~ April 21, 2025

1.2 Technical Specification

Frequency Range:	24030MHz ~ 24230MHz
Type of Modulation:	FMCW
Channel Number:	1
Antenna Information:	Integrated antenna

1.3 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-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 (2024)
ANSI C63.10 (2020)
RSS-210 Issue 11 (2024)
RSS-Gen Issue 5 (2021)

2.2 Mode of operation during the test

The channel was tested as representatives.

Frequency Band (MHz)				24000 ~ 24250			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	**24090**	-	-	-	-	-	-

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
20 dB Bandwidth & 99% Occupied Bandwidth	22°C	55% RH
Radiated Emissions		
Power line conducted emission	21°C	52% RH

2.6 Instrument list

Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	Test Receiver	R&S	ESR7	EC 6194	2026-02-17
☑	A.M.N.	R&S2025-07-23	ESH2-Z5	EC 3119	2025-07-23
☐	A.M.N.	R&S	ENV4200	EC 3558	2026-06-04
☑	Attenuator	Hua Xiang	Ts5-10db-6g	EC 6194-1	2025-12-06
☑	Shielded room	Zhongyu	-	EC 2838	2026-01-09
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	Test Receiver	R&S	ESIB 26	EC 3045	2025-08-18
☑	PXA Signal Analyzer	Keysight	N9030B	EC 6078	2026-03-25
☑	Bilog Antenna	TESEQ	CBL 6112B	EC 6411	2025-09-11
☐	Pre-amplifier	R&S	AFS42-00101800-25-S-42	EC 5262	2025-11-06
☑	Pre-amplifier	Tonscend	tap01018050	EC 6432-1	2025-12-03
☑	Horn antenna	Tonscend	bha9120d	EC 6432-2	2026-04-10
☑	Horn antenna	ETS	3116c	EC 5955	2025-08-14
☑	WW wave antenna (40-60G)	VDi	HD-500SGAH25	EC 6529-1	2026-03-09
☑	Mixer (40-60G)		M19RH	EC 6529	2026-03-24
☑	WW wave antenna (60-90G)	VDi	HD-620SGAH25	EC 6382-1	2026-03-12
☑	Mixer (60-90G)		M12RH	EC 6382	2026-03-24
☑	WW wave antenna (90-140G)	VDi	HD-900SGAH25	EC 6383-1	2026-03-12
☑	Mixer (90-140G)		M15RH	EC 6383	2026-03-24
☑	Semi-anechoic chamber	Albatross project	-	EC 3048	2026-07-11
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	Therom-Hygrograph	Testo	175h1	EC 6640	2025-08-29
☑	Pressure meter	YM3	Shanghai Mengde	EC 3320	2025-08-16

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
Radiated Emissions in restricted frequency bands below 1GHz	± 4.90dB
Radiated Emissions in restricted frequency bands above 1GHz	± 5.02dB
Emission outside the frequency band	± 2.89dB

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(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

3.2 Measurement Procedure

For Radiated emission below 30MHz:

a) 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.
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) Both X and Y axes of the antenna are set to make the measurement.
d) 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.
e) The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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.

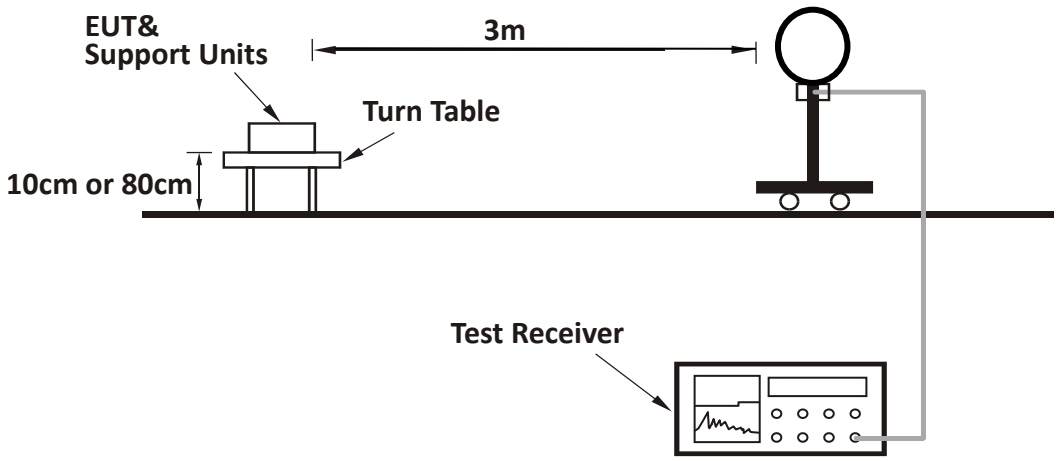
f) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

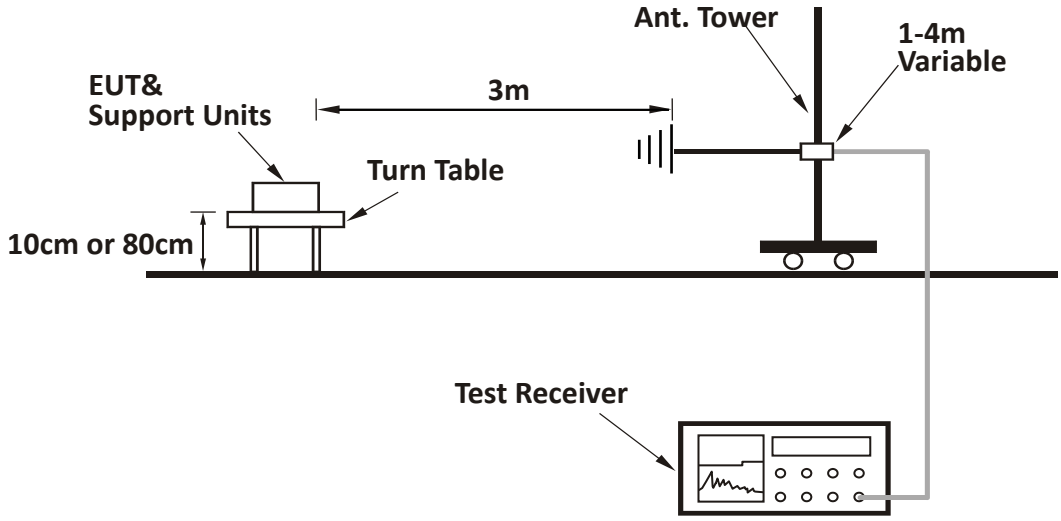
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

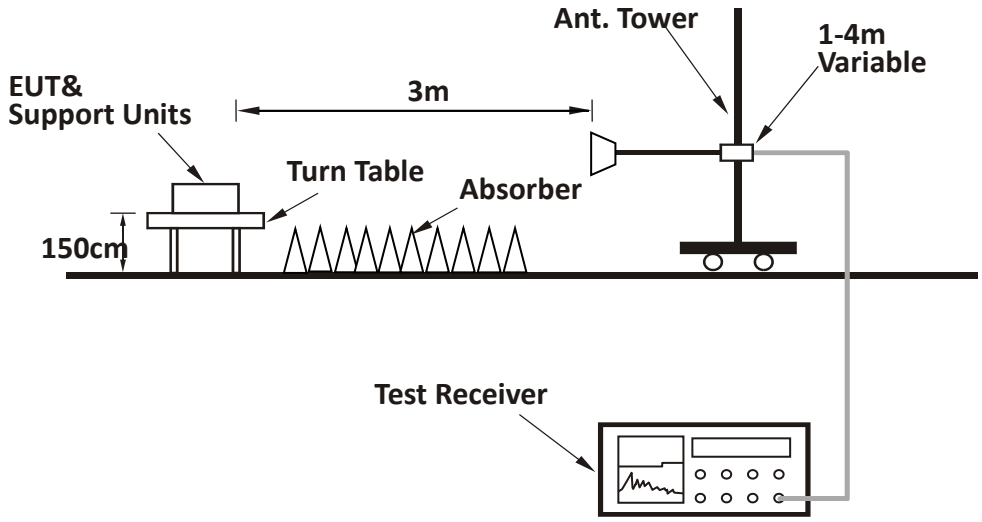
For Radiated emission below 30MHz:



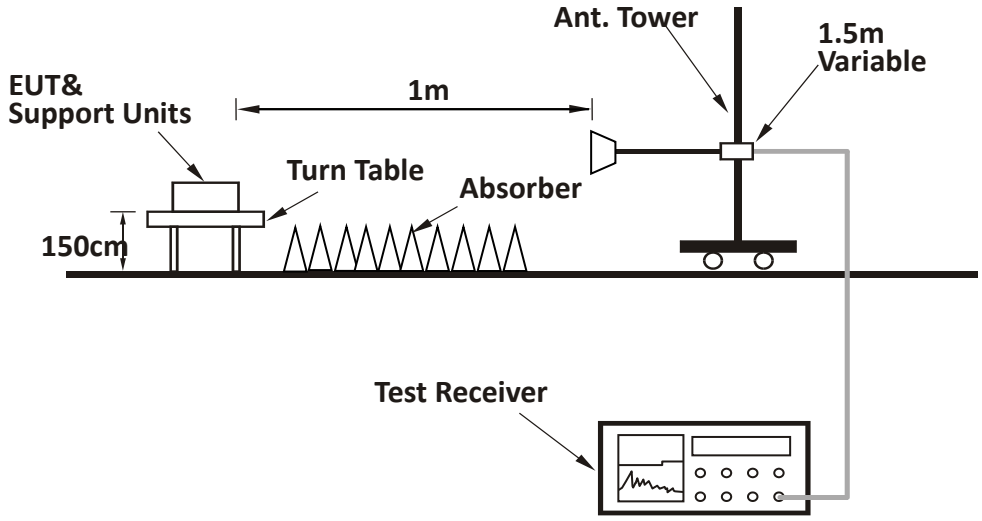
For Radiated emission 30MHz to 1GHz:



For Radiated emission 1GHz to 40GHz:



For Radiated emission above 40GHz:

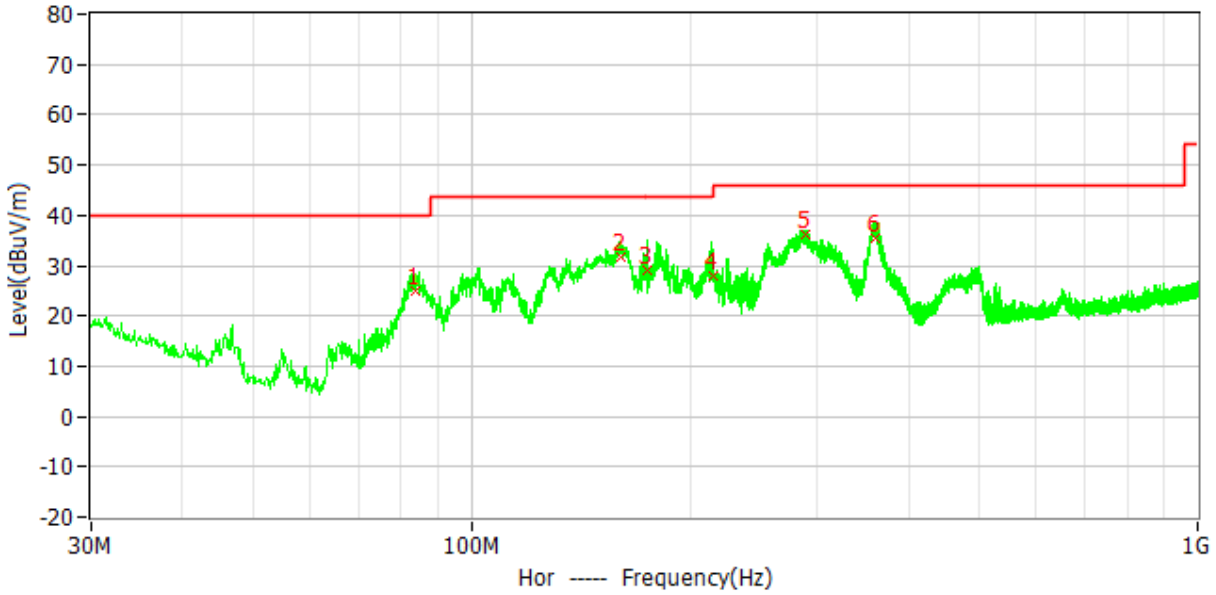


3.4 Test Results of Radiated Emissions

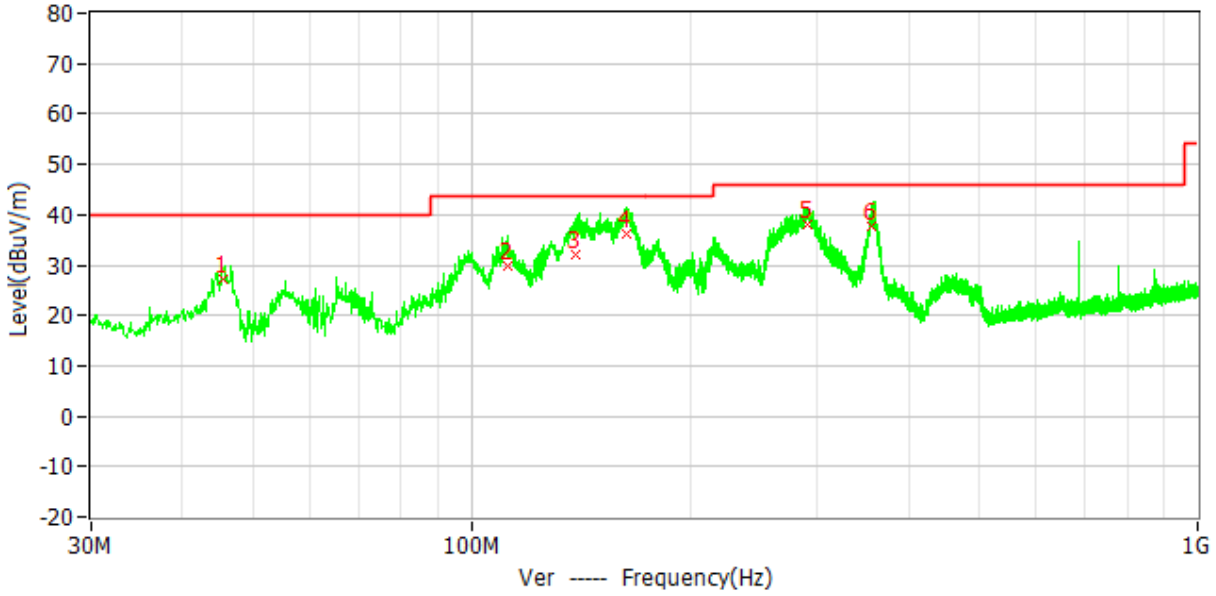
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

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

Horizontal



Vertical



TEST REPORT

Test data below 1GHz

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	83.949	25.0	9.0	40.0	15.0	QP
H	160.428	31.6	11.4	43.5	11.9	QP
H	174.855	28.9	10.9	43.5	14.6	QP
H	215.404	28.1	10.9	43.5	15.4	QP
H	287.978	36.0	15.0	46.0	10.0	QP
H	360.156	35.5	16.9	46.0	10.5	QP
V	45.647	27.2	11.5	40.0	12.8	QP
V	112.312	29.8	12.8	43.5	13.7	QP
V	139.651	32.0	12.5	43.5	11.5	QP
V	163.874	36.0	11.3	43.5	7.5	QP
V	290.896	38.2	15.1	46.0	7.8	QP
V	356.284	37.7	16.8	46.0	8.3	QP

Test result above 1GHz:

Antenna	Frequency Band (GHz)	Desensitization factor (dB)	Peak Power @3m (dBuV/m)	Limit (dBuV/m)	Average Power @3m (dBuV/m)	Limit (dBuV/m)
H	24.00 ~ 24.25	0.4	88.4	128.0	54.7	108.0
V		0.4	92.8	128.0	59.1	108.0

FMCW desensitization factor =-20 * Log(α) =0.4dB

$$\alpha = \frac{1}{\sqrt[4]{1+\left(\frac{2\ln(2)}{\pi}\right)^2\left(\frac{F_s}{T_s B^2}\right)^2}}$$

F_S = Sweep width = 171.93MHz

T_s = Sweep time = 120 μs

B = 3 dB IF bandwidth =1MHz

Average Power= Peak Power + Ducy Cycle Factor

TEST REPORT

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	23351	60.03	74.00	13.97	PK
H	23351	41.25	54.00	12.75	AV
H	24000	58.52	74.00	15.48	PK
H	24000	49.55	54.00	4.45	AV
H	24250	56.14	74.00	17.86	PK
H	24250	36.28	54.00	17.72	AV
H	24420	57.46	74.00	16.54	PK
H	24420	37.92	54.00	16.08	AV
V	23340	58.93	74.00	15.07	PK
V	23340	38.54	54.00	15.46	AV
V	24000	55.64	74.00	18.36	PK
V	24000	36.71	54.00	17.29	AV
V	24250	57.13	74.00	16.87	PK
V	24250	37.53	54.00	16.47	AV
V	24359	58.70	74.00	15.30	PK
V	24359	38.97	54.00	15.03	AV

The emission was conducted from 1GHz to 40GHz

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	10505	53.71	74.00	20.29	PK
H	11289	39.02	54.00	14.98	AV
H	17864	55.25	74.00	18.75	PK
H	17864	43.38	54.00	10.62	AV
H	23382	56.03	74.00	17.97	PK
H	23382	45.15	54.00	8.85	AV
H	32360	55.84	74.00	18.16	PK
H	32360	46.87	54.00	7.13	AV
V	6281	49.28	74.00	24.72	PK
V	6723	37.43	54.00	16.57	AV
V	18000	55.71	74.00	18.29	PK
V	17762	42.99	54.00	11.01	AV
V	23395	56.42	74.00	17.58	PK
V	23395	47.25	54.00	6.75	AV
V	35495	54.99	74.00	19.01	PK
V	35495	45.76	54.00	8.24	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.

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	40940	-70.53	22.76	76.211	66.668	74.00	7.332	PK
H	40940	-89.16	22.76	57.581	48.038	54.00	5.962	AV
H	61140	-70.58	22.70	79.704	70.162	74.00	3.838	PK
H	61140	-90.55	22.70	59.734	50.192	54.00	3.808	AV
H	93540	-69.91	22.75	82.974	73.431	74.00	0.569	PK
H	93540	-90.19	22.75	63.428	53.885	54.00	0.115	AV
V	40800	-70.45	22.76	76.261	66.718	74.00	7.282	PK
V	40800	-89.15	22.76	57.561	48.018	54.00	5.982	AV
V	68250	-70.90	23.06	79.980	70.437	74.00	3.563	PK
V	68250	-90.28	23.06	60.600	51.057	54.00	2.943	AV
V	91520	-70.73	22.63	83.128	73.585	74.00	0.415	PK
V	91520	-90.98	22.63	62.878	53.335	54.00	0.665	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. Level@1m = 126.8 − 20log(λ) + 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. Level@3m= Level@1m + 20log(1m/3m).

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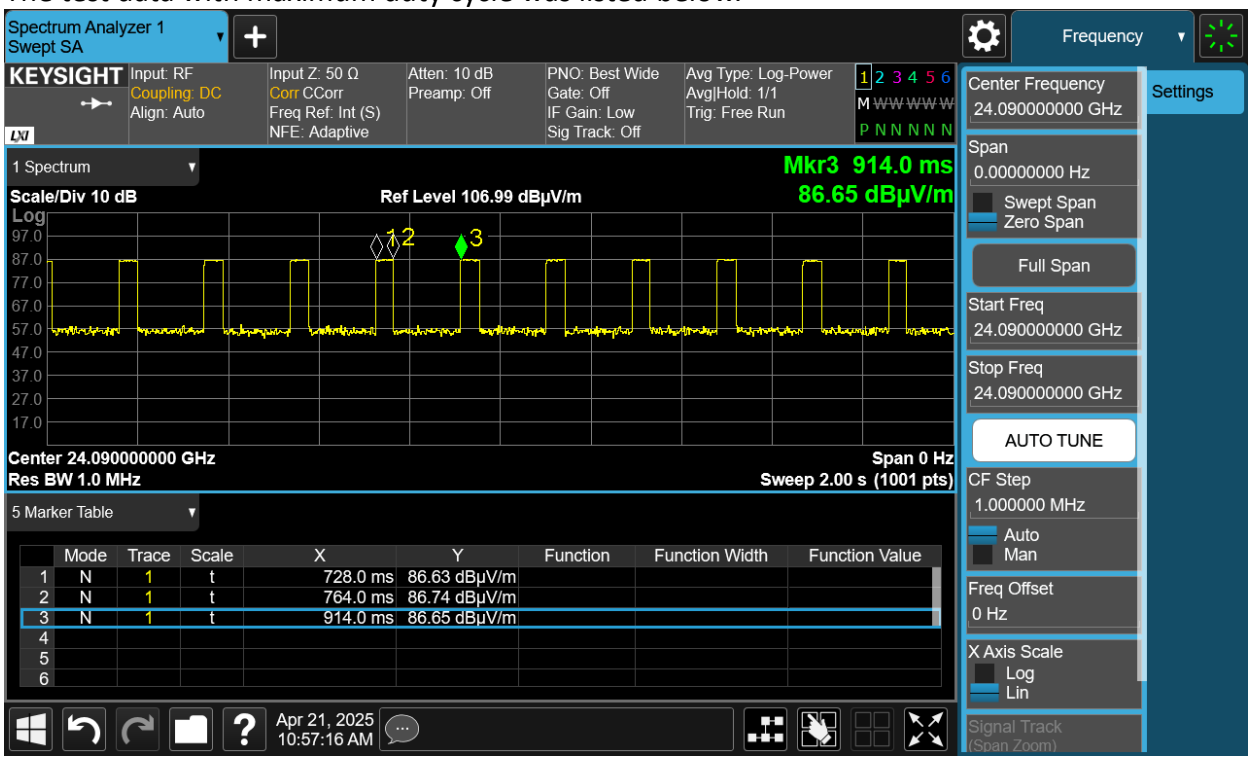
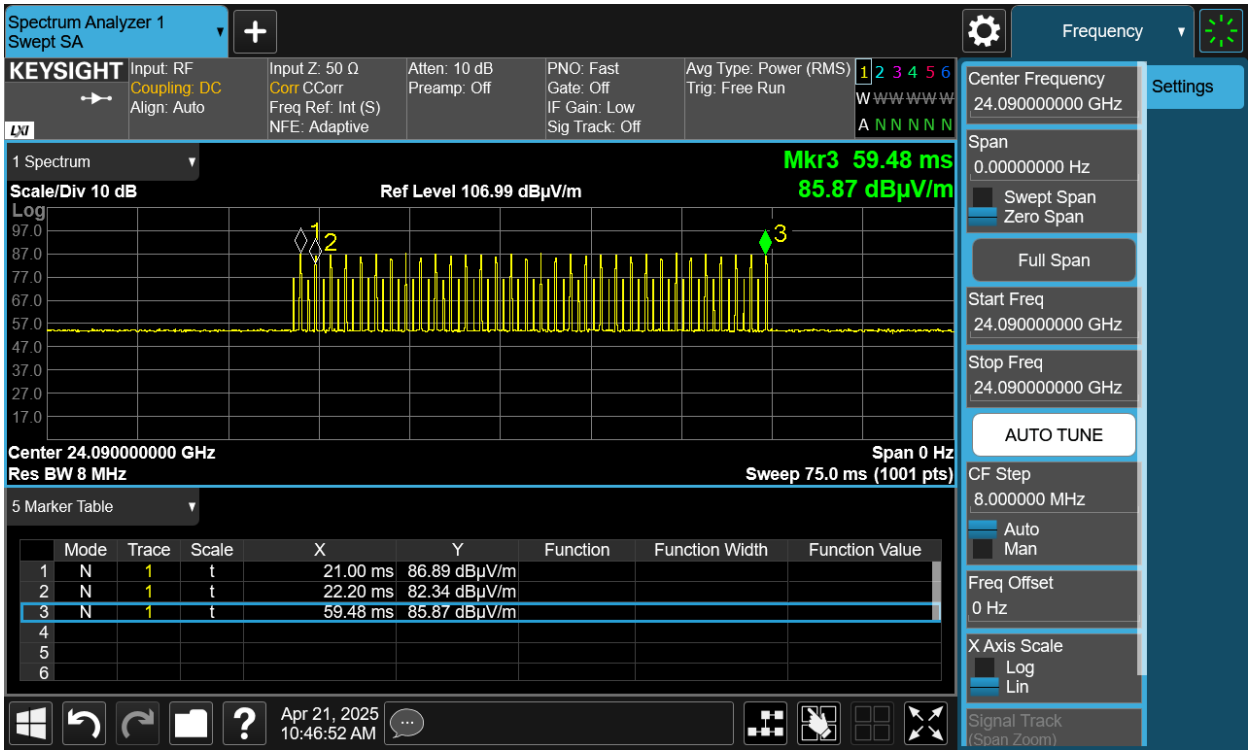
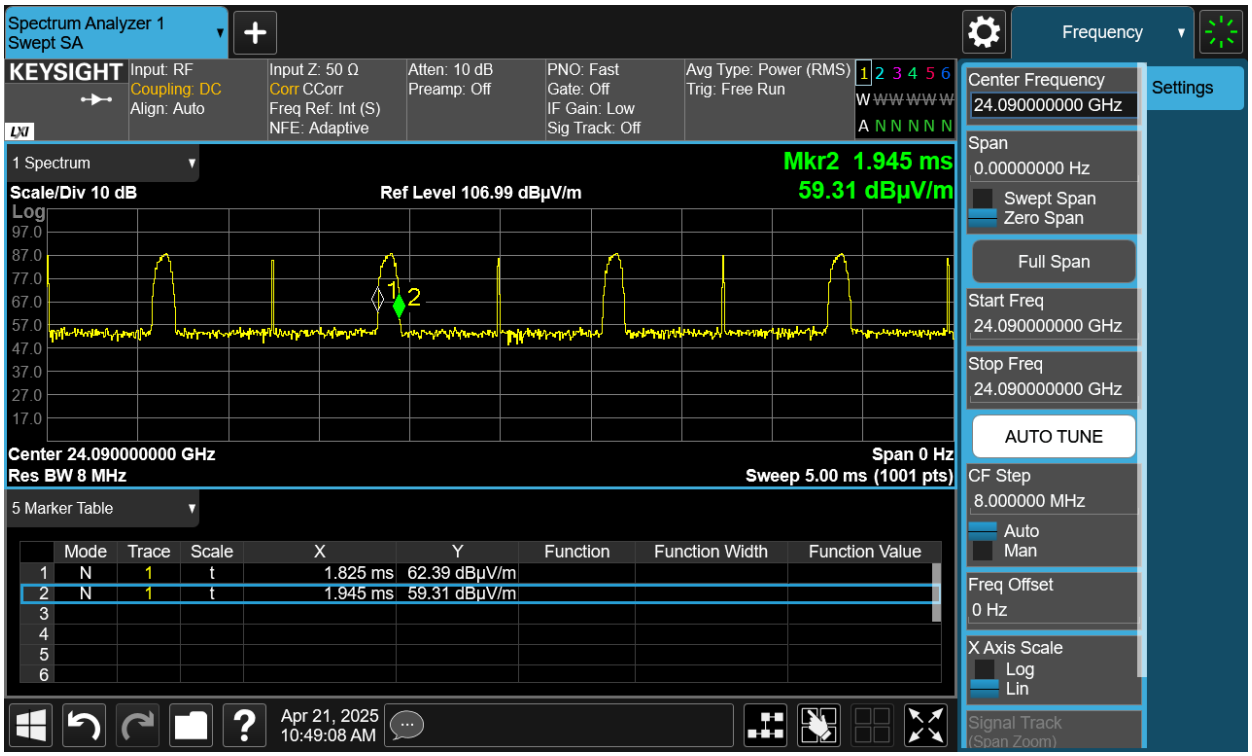
3.5 Duty Cycle:

The test data with maximum duty cycle was listed below.





TEST REPORT



Duty Cycle Factor=20lg*(Cycle Factor) =-33.7dB

Note 1: Duty Cycle=Transmission Time/ Burst Period

2: Transmission Time = Chirp Width * Chirp number = 120us*32=3.84ms

3: Burst Period =186ms

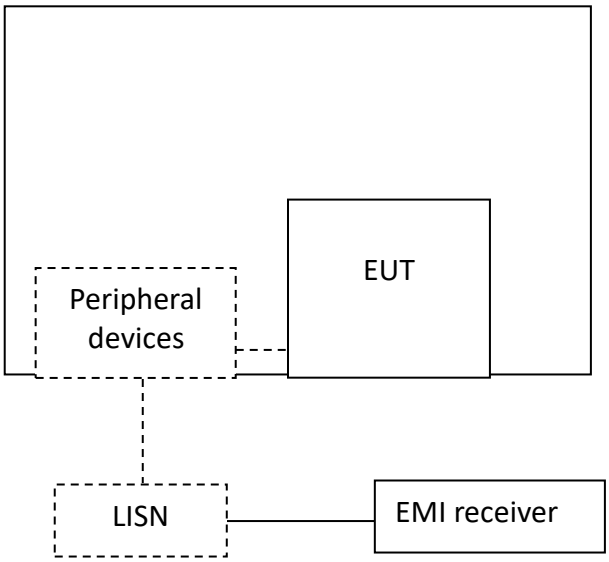
4 Power line conducted emission

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

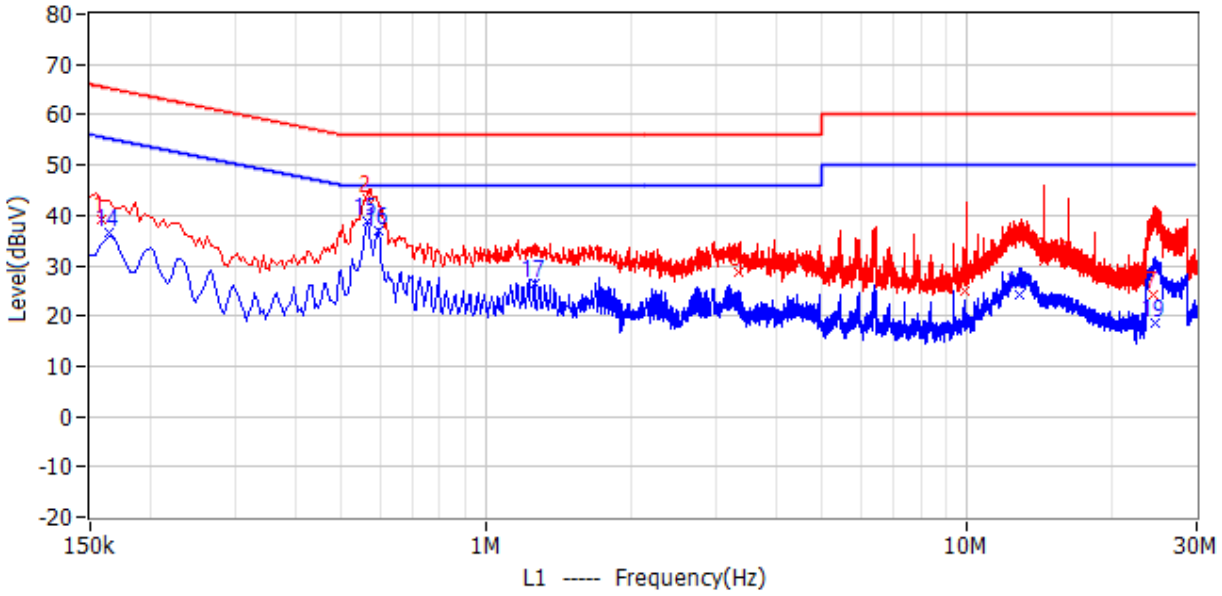
Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be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

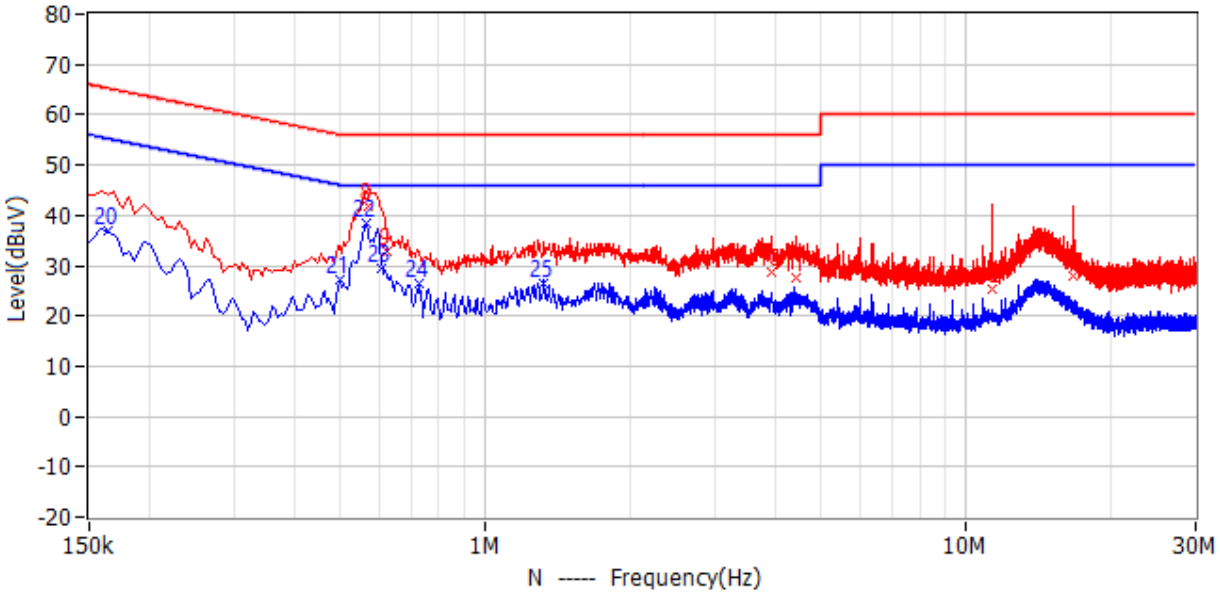
The bandwidth of the test receiver is set at 9 kHz.

4.4 Test Results of Power line conducted emission

L line



N line



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Test Data:

No.	Frequency	Limit dBuV	Level dBuV	Margin dB	Reading dBuV	Factor dB	Detector	Phase
1	159.000kHz	65.52	39.30	26.22	33.10	6.20	QP	L1
2	564.000kHz	56.00	43.40	12.60	37.20	6.20	QP	L1
3	3.341MHz	56.00	28.68	27.32	22.38	6.30	QP	L1
4	9.884MHz	60.00	25.11	34.89	18.51	6.60	QP	L1
5	14.460MHz	60.00	30.91	29.09	24.01	6.90	QP	L1
6	16.296MHz	60.00	30.22	29.78	23.22	7.00	QP	L1
7	24.392MHz	60.00	24.03	35.97	16.53	7.50	QP	L1
8	573.000kHz	56.00	41.88	14.12	35.68	6.20	QP	N
9	627.000kHz	56.00	32.80	23.20	26.60	6.20	QP	N
10	3.953MHz	56.00	28.86	27.14	22.56	6.30	QP	N
11	4.443MHz	56.00	27.62	28.38	21.32	6.30	QP	N
12	11.283MHz	60.00	25.47	34.53	18.77	6.70	QP	N
13	16.652MHz	60.00	27.92	32.08	20.92	7.00	QP	N
14	163.500kHz	55.28	36.63	18.65	30.43	6.20	CAV	L1
15	564.000kHz	46.00	38.84	7.16	32.64	6.20	CAV	L1
16	595.500kHz	46.00	36.81	9.19	30.61	6.20	CAV	L1
17	1.257MHz	46.00	26.55	19.45	20.35	6.20	CAV	L1
18	12.840MHz	50.00	24.03	25.97	17.23	6.80	CAV	L1
19	24.590MHz	50.00	18.49	31.51	10.99	7.50	CAV	L1
20	163.500kHz	55.28	37.00	18.28	30.90	6.10	CAV	N
21	496.500kHz	46.06	27.03	19.03	20.83	6.20	CAV	N
22	564.000kHz	46.00	38.31	7.69	32.11	6.20	CAV	N
23	609.000kHz	46.00	29.54	16.46	23.34	6.20	CAV	N
24	730.500kHz	46.00	26.39	19.61	20.19	6.20	CAV	N
25	1.325MHz	46.00	26.58	19.42	20.38	6.20	CAV	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 20 dB Bandwidth & 99% Occupied Bandwidth

Test result: **Pass**

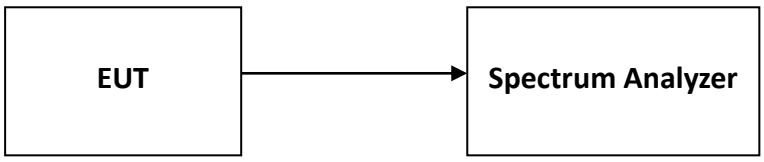
5.1 Limit

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

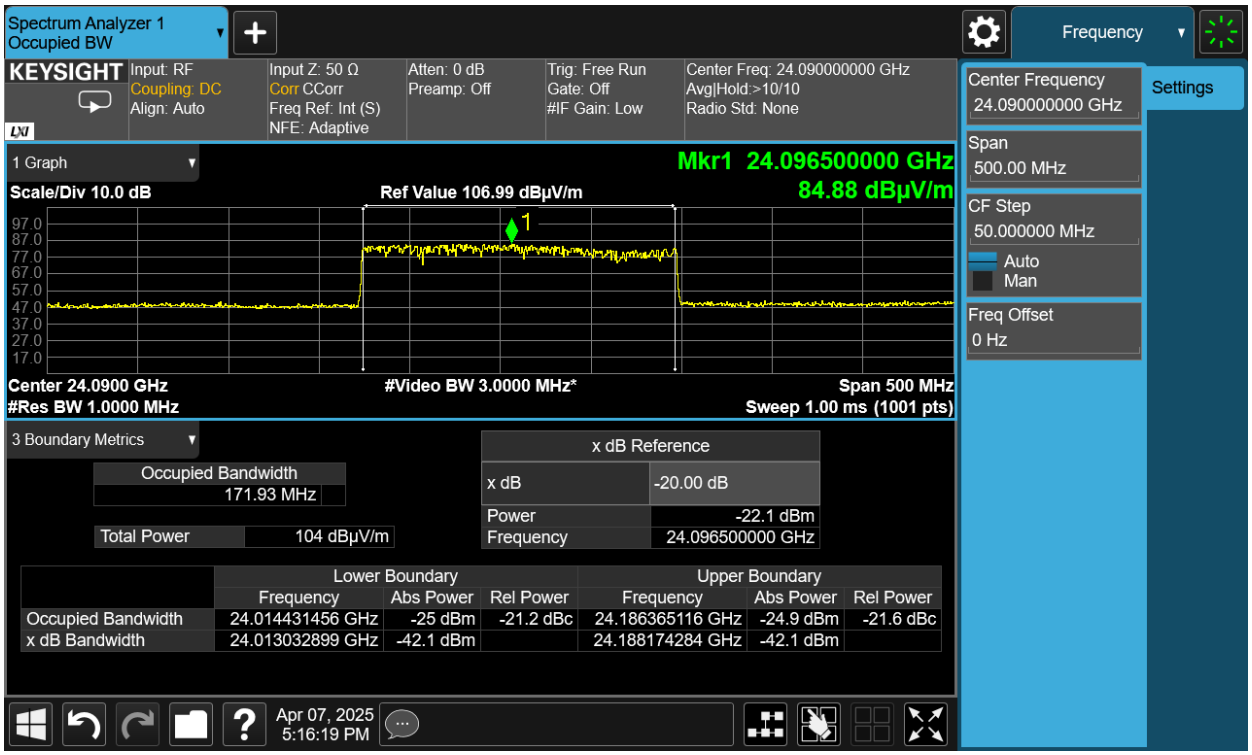
The 20dB Bandwidth is measured using the Spectrum Analyzer.
Set Span = 2 to 3 times the 20 dB bandwidth, RBW = approximately 1% of the 20 dB bandwidth, VBW>RBW, Sweep = auto, Detector = peak, Trace = max hold.
The test was performed at 2 channels (lowest and highest channel).

5.3 Test Configuration



5.4 The results

Frequency band (MHz)	F_L at 20dB BW (MHz)	F_H at 20dB BW (MHz)	F_L at 99% BW (MHz)	F_H at 20dB BW (MHz)	20dB BW (MHz)	99% BW (MHz)
24000 ~ 24250	24013.03	24188.17	24014.43	24186.36	174.14	171.93
Limit	F_L >24000	F_H <24250	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 **********