

CFR 47 FCC PART 15 SUBPART C(DTS)

TEST REPORT

For

Laser Presentation Clicker

MODEL NUMBER: KQJ, KQJH0, KQI, KQIH0

REPORT NUMBER: E04A24120520F00501

ISSUE DATE: January 14, 2025

FCC ID: 2A7Z4-KQJKQI

Prepared for

Ningbo Fulman Communication Technology Co., Ltd No.98, Yuanzhong Road, Economic Development Zone, Xiang shan County, Zhejiang, China

Prepared by

Guangdong Global Testing Technology Co., Ltd.

Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	January 14, 2025	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.1.3	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.2	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.11 & Clause 11.12	FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

Note:

1. N/A: In this whole report not applicable.

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C(DTS)> when <Accuracy Method> decision rule is applied.

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	ANTEN	NA REQUIREMENT			

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Ningbo Fulman Communication Technology Co., Ltd
Address:	No.98, Yuanzhong Road, Economic Development Zone, Xiang
	shan County, Zhejiang, China

Manufacturer Information

Company Name:	Ningbo Fulman Communication Technology Co., Ltd
Address:	No.98, Yuanzhong Road, Economic Development Zone, Xiang
	shan County, Zhejiang, China

EUT Information

Product Description: Model: Series Model: Brand: Sample Received Date: Sample Status: Sample ID: Date of Tectod:	Laser Presentation Clicker KQJ KQJH0, KQI, KQIH0 VENTION December 12, 2024 Normal A24120520 002
Date of Tested:	December 12, 2024 to January 14, 2025

APPLICABLE STANDARDS

STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C(DTS)	Pass

Prepared By:



Checked By:

San La

Alan He Laboratory Leader

Shawn Wen Laboratory Manager

2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C(DTS)

3. FACILITIES AND ACCREDITATION

A2LA (Certificate No.: 6947.01)
Guangdong Global Testing Technology Co., Ltd.
has been assessed and proved to be in compliance with A2LA.
FCC (FCC Designation No.: CN1343)
Guangdong Global Testing Technology Co., Ltd.
has been recognized to perform compliance testing on equipment
Accreditation Certificate subject to Supplier's Declaration of Conformity (SDoC) and
Certification rules
ISED (Company No.: 30714)
Guangdong Global Testing Technology Co., Ltd.
has been registered and fully described in a report filed with ISED.
The Company Number is 30714 and the test lab Conformity
Assessment Body Identifier (CABID) is CN0148.

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Items	k	Uncertainty
DTS Bandwidth	1.96	±9.2 PPM
20dB Emission Bandwidth	1.96	±9.2 PPM
Carrier Frequency Separation	1.96	±9.2 PPM
Time of Occupancy	1.96	±0.57%
Conducted Output Power	1.96	±1.5 dB
Power Spectral Density Level	1.96	±1.9 dB
Conducted Spurious Emission	1.96	9 kHz-30 MHz: ± 0.95 dB 30 MHz-1 GHz: ± 1.5 dB 1GHz-12.75GHz: ± 1.8 dB 12.75 GHz-26.5 GHz: ± 2.1dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.		

Test Item	Measurement Frequency Range	К	U(dB)
Conducted emissions from the AC mains power ports (AMN)	150 kHz ~ 30 MHz	2	3.37
Radiated emissions	9 kHz ~ 30 MHz	2	4.16
Radiated emissions	30 MHz ~ 1 GHz	2	3.79
Radiated emissions	1 GHz ~ 18 GHz	2	5.62
Radiated emissions	18 GHz ~ 40 GHz	2	5.54
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Laser Presentation Clicker
Model		KQJ
Series Model		KQJH0, KQI, KQIH0
Hardware Version		Ver12
Software Version		Ver12
Ratings		DC 5V / Battery 3.7V
Battery Ratings		3.7V 200mAh 0.74wh
Power Supply	DC	5V
	Battery	3.7V

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2405 MHz to 2456 MHz
Type of Modulation:	GFSK
Number of Channels:	3
Maximum Peak Power:	-1.87 dBm
Antenna Type:	Internal antenna
Antenna Gain:	-0.68 dBi
EUT Test software:	1
Note:	The Antenna Gain was provided by customer, and this information may affect the validity of the results, customer should be responsible for this.

5.2. CHANNEL LIST

C	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
	1	2405	2	2428	3	2456	/	/

5.3. MAXIMUM PEAK OUTPUT POWER

Test Mode	Frequency (MHz)	Channel Number	Maximum Peak Output Power (dBm)
2.4G	2405 ~ 2456	1-3[3]	-1.87

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
2.4G	CH 1(Low Channel), CH 2(MID Channel), CH 3(High Channel)	2405 MHz, 2428 MHz, 2456 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The	The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band					
Test Software Version /						
Modulation	Transmit	Test Software setting value				
Туре	Antenna Number	CH 1	CH 2	CH 3		
GFSK	1	default	default			

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2405-2456	Internal antenna	-0.68

Test Mode	Transmit and Receive Mode	Description
2.4G	⊠1TX	Antenna 1 can be used as transmitting antenna.

5.7. SUPPORT UNITS FOR SYSTEM TEST

No.	Equipment	Manufacturer	Model No.	Serial No.
1	Adapter	UGREEN	CD170	/

5.8. SETUP DIAGRAM

AC conducted emission:



Radiated Emission:

EUT

RF conducted:

EUT

TRF No.: 04-E001-0B

	Test Equipment of Conducted RF							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date			
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2024/09/14	2025/09/13			
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2024/09/14	2025/09/13			
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2024/09/14	2025/09/13			
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2024/09/14	2025/09/13			
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2024/09/14	2025/09/13			
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2024/09/14	2025/09/13			
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2024/09/14	2025/09/13			
temperature humidity chamber	Espec	SH-241	SH-241-2014	2024/09/14	2025/09/13			
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A			

	Test Equipment of Radiated emissions below 1GHz								
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date				
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29				
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2024/09/14	2025/09/13				
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2024/09/14	2025/09/13				
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2024/09/14	2025/09/13				
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09				
Biconilog Antenna	ETS	3142E	00243646	2022/03/23	2025/03/22				
Loop Antenna	ETS	6502	243668	2022/03/30	2025/03/29				
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A				

	Test Equipment of Radiated emissions above 1GHz								
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date				
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2022/08/30	2025/08/29				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2024/09/14	2025/09/13				
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2024/09/14	2025/09/13				
Pre-Amplifier	A-INFO	HPA-1G1850	HYPA21003	2024/09/14	2025/09/13				
Horn antenna	A-INFO	3117	246069	2022/03/11	2025/03/10				
Pre-Amplifier	ZKJC	HPA-184057	HYPA21004	2024/09/14	2025/09/13				

TRF No.: 04-E001-0B

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Horn antenna	ZKJC	3116C	246265	2022/03/29	2025/03/28
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE+)	N/A	N/A	N/A

	Test Equipment of Conducted emissions				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2024/09/14	2025/09/13
LISN/AMN	Rohde & Schwarz	ENV216	102843	2024/09/14	2025/09/13
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2024/09/14	2025/09/13
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

7. ANTENNA PORT TEST RESULTS 7.1. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section Test Item Limit Frequency Range (MHz)			
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	Peak Conduct Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.9.1.

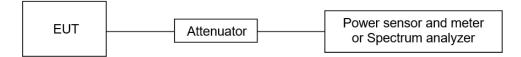
Connect the EUT to the spectrum Analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	≥DTS bandwidth
VBW	≥3×RBW
Span	≥3×RBW
Trace	Max hold
Sweep time	Auto

Allow trace to stabilize.

Use the marker-to-peak function to set the marker to the peak of the emission.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4 ℃	Relative Humidity	56%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section Test Item Limit Frequency Range (MHz)			
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
IRB///	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
N/B/M	For 6 dB Bandwidth: ≥3 × RBW For 99 % Occupied Bandwidth: ≥3 × RBW
Trace	Max hold
Sweep	Auto couple

Connect the EUT to the spectrum analyser and use the following settings:

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4 ℃	Relative Humidity	56%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section Test Item Limit Frequency Range (MHz)			Frequency Range (MHz)
CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.

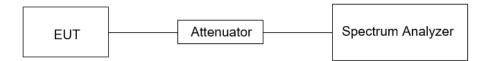
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4 ℃	Relative Humidity	56%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section Test Item Limit			
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power	

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

Shan	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4 ℃	Relative Humidity	56%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

7.5. DUTY CYCLE

<u>LIMITS</u>

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4 ℃	Relative Humidity	56%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

8. RADIATED TEST RESULTS

<u>LIMITS</u>

Please refer to CFR 47 FCC §15.205 and §15.209.

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Stren (dBuV/m)	0
		Quasi-l	Peak
30 - 88	100	40	
88 - 216	150	43.	5
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
	300	74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (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

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

z	MHz	GHz
90 - 0.110	149.9 - 150.05	9.0 - 9.2
95 - 0.505	158.52475 - 158.52525	9.3 - 9.5
735 - 2.1905	158.7 - 156.9	10.6 - 12.7
20 - 3.026	162.0125 - 167.17	13.25 - 13.4
25 - 4.128	167.72 - 173.2	14.47 - 14.5
7725 - 4.17775	240 - 285	15.35 - 18.2
0725 - 4.20775	322 - 335.4	17.7 - 21.4
77 - 5.683	399.9 - 410	22.01 - 23.12
15 - 6.218	608 - 614	23.6 - 24.0
8775 - 6.26825	960 - 1427	31.2 - 31.8
1175 - 8.31225	1435 - 1626.5	36.43 - 36.5
91 - 8.294	1845.5 - 1848.5	Above 38.6
82 - 8.366	1660 - 1710	
7625 - 8.38675	1718.8 - 1722.2	
1425 - 8.41475	2200 - 2300	
29 - 12.293	2310 - 2390	
51975 - 12.52025	2483.5 - 2500	
57675 - 12.57725	2655 - 2900	
36 - 13.41	3260 - 3267	
42 - 16.423	3332 - 3339	
89475 - 16.69525	3345.8 - 3358	
80425 - 16.80475	3500 - 4400	
5 - 25.67	4500 - 5150	
5 - 38.25	5350 - 5460	
- 74.6	7250 - 7750	
8 - 75.2	8025 - 8500	
- 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6c

TEST PROCEDURE

Below 30 MHz

TRF No.: 04-E001-0B

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high

pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1G

The setting of the spectrum analyser

RBW	1 MHz
IV BW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

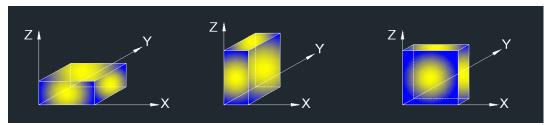
3. The EUT was placed on a turntable with 1.5 m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

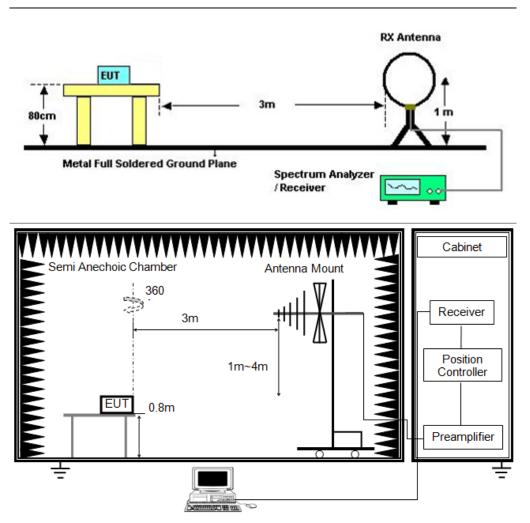
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

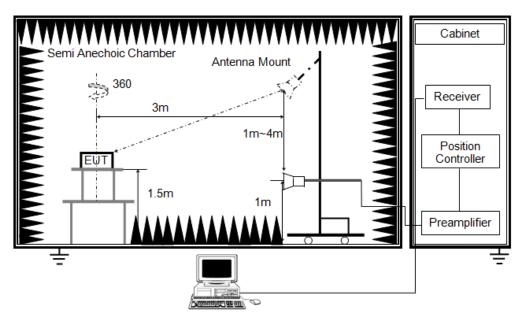
X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST SETUP





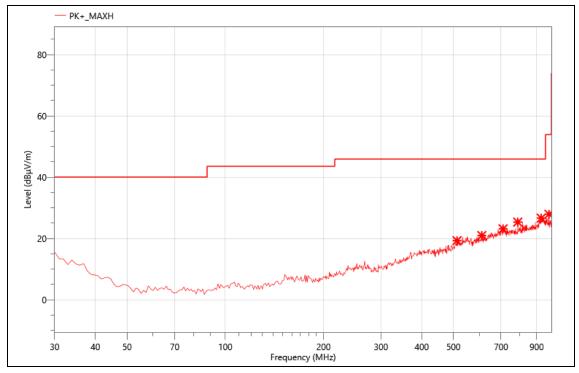
TEST ENVIRONMENT

Temperature	24.6 ℃	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

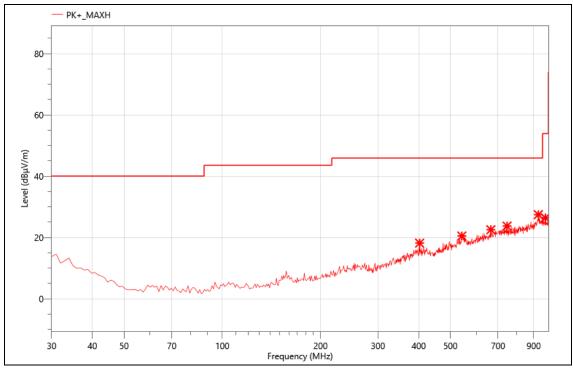
Mode:	2405
Power:	Battery 3.7V
TE:	Berny
Date	2024/12/17
T/A/P	24.6°C/53%/101Kpa

8.1. RADIATED BAND EDGE AND SPURIOUS EMISSION



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	513.060	30.83	-11.52	19.31	46.00	26.69	PK+	V
2	611.030	30.50	-9.52	20.98	46.00	25.02	PK+	V
3	709.970	30.27	-7.09	23.18	46.00	22.82	PK+	V
4	787.570	32.09	-6.73	25.36	46.00	20.64	PK+	V
5	929.190	29.68	-3.02	26.66	46.00	19.34	PK+	V
6	981.570	31.61	-3.68	27.93	53.90	25.97	PK+	V

Mode:	2405
Power:	Battery 3.7V
TE:	Berny
Date	2024/12/17
T/A/P	24.6°C/53%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	402.480	32.05	-13.87	18.18	46.00	27.82	PK+	Н
2	542.160	30.64	-10.13	20.51	46.00	25.49	PK+	Н
3	665.350	30.74	-8.19	22.55	46.00	23.45	PK+	Н
4	745.860	30.94	-7.19	23.75	46.00	22.25	PK+	Н
5	930.160	30.42	-2.95	27.47	46.00	18.53	PK+	Н
6	977.690	30.06	-3.64	26.42	53.90	27.48	PK+	Н

Note:

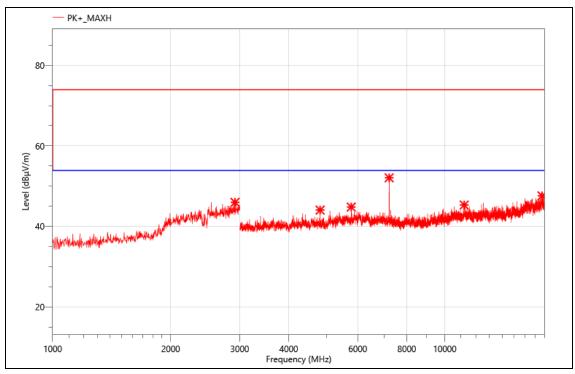
1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Peak: Peak detector.

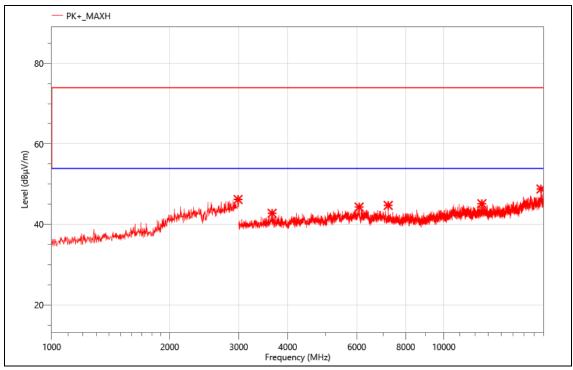
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Mode:	2405
Power:	Battery 3.7V
TE:	Big
Date	2025/01/10
T/A/P	23.5°C/51%/101Kpa



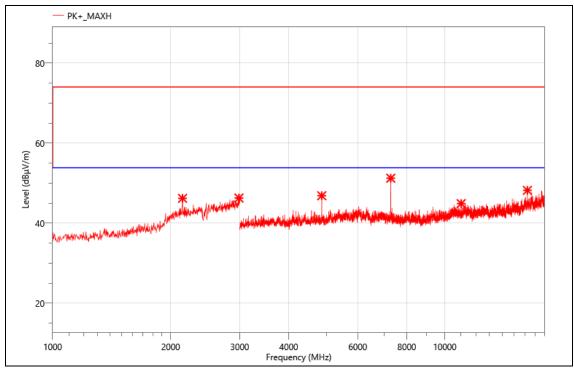
No.	Freq.	Reading	Corr.	Meas.	Limit	Margin	Det.	Pol.
INO.	(MHz)	(dBµV)	(dB)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	Det.	P01.
1	2918.000	53.60	-7.63	45.97	74.00	28.03	PK+	Н
2	4809.000	55.42	-	44.05	74.00	29.95	PK+	Н
3	5773.500	53.96	-9.16	44.80	74.00	29.20	PK+	Н
4	7213.500	60.06	-8	52.06	74.00	21.94	PK+	Н
5	11209.500	49.55	-4.24	45.31	74.00	28.69	PK+	Н
6	17695.500	47.37	0.21	47.58	74.00	26.42	PK+	Н

Mode:	2405
Power:	Battery 3.7V
TE:	Big
Date	2025/01/10
T/A/P	23.5°C/51%/101Kpa



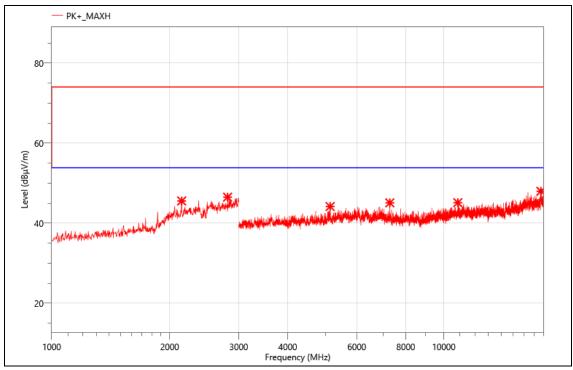
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2988.000	53.15	-6.97	46.18	74.00	27.82	PK+	V
2	3649.500	56.07	-13.32	42.75	74.00	31.25	PK+	V
3	6084.000	52.48	-8.18	44.30	74.00	29.70	PK+	V
4	7216.500	52.73	-8.02	44.71	74.00	29.29	PK+	V
5	12505.500	49.50	-4.37	45.13	74.00	28.87	PK+	V
6	17689.500	48.54	0.24	48.78	74.00	25.22	PK+	V

Mode:	2428
Power:	Battery 3.7V
TE:	Big
Date	2025/01/10
T/A/P	23.5°C/51%/101Kpa



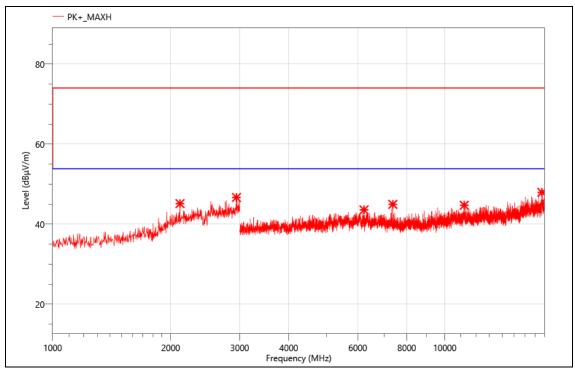
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2144.000	55.26	-9.05	46.21	74.00	27.79	PK+	Н
2	2986.000	53.26	-6.97	46.29	74.00	27.71	PK+	Н
3	4855.500	58.08	-11.21	46.87	74.00	27.13	PK+	Н
4	7282.500	59.11	-7.86	51.25	74.00	22.75	PK+	Н
5	11010.000	49.95	-5.06	44.89	74.00	29.11	PK+	Н
6	16243.500	48.81	-0.61	48.20	74.00	25.80	PK+	Н

Mode:	2428
Power:	Battery 3.7V
TE:	Big
Date	2025/01/10
T/A/P	23.5°C/51%/101Kpa



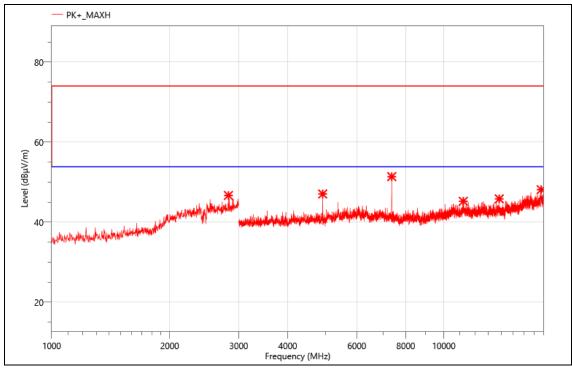
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2146.000	54.61	-9.05	45.56	74.00	28.44	PK+	V
2	2810.000	54.79	-8.28	46.51	74.00	27.49	PK+	V
3	5130.000	54.44	-10.27	44.17	74.00	29.83	PK+	V
4	7284.000	52.93	-7.84	45.09	74.00	28.91	PK+	V
5	10858.500	50.25	-5.12	45.13	74.00	28.87	PK+	V
6	17682.000	47.69	0.28	47.97	74.00	26.03	PK+	V

Mode:	2456
Power:	Battery 3.7V
TE:	Big
Date	2025/01/10
T/A/P	23.5°C/51%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2112.000	54.35	-9.21	45.14	74.00	28.86	PK+	V
2	2942.000	54.15	-7.47	46.68	74.00	27.32	PK+	V
3	6223.500	51.94	-8.36	43.58	74.00	30.42	PK+	V
4	7369.500	53.17	-8.21	44.96	74.00	29.04	PK+	V
5	11212.500	48.92	-4.18	44.74	74.00	29.26	PK+	V
6	17685.000	47.69	0.26	47.95	74.00	26.05	PK+	V

Mode:	2456
Power:	Battery 3.7V
TE:	Big
Date	2025/01/10
T/A/P	23.5°C/51%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2824.000	54.60	-7.92	46.68	74.00	27.32	PK+	Н
2	4911.000	58.29	-11.23	47.06	74.00	26.94	PK+	Н
3	7366.500	59.57	-8.18	51.39	74.00	22.61	PK+	Н
4	11214.000	49.38	-4.15	45.23	74.00	28.77	PK+	Н
5	13851.000	49.57	-3.74	45.83	74.00	28.17	PK+	Н
6	17716.500	48.31	-0.18	48.13	74.00	25.87	PK+	Н

Note:

1. Measurement = Reading Level + Correct Factor.

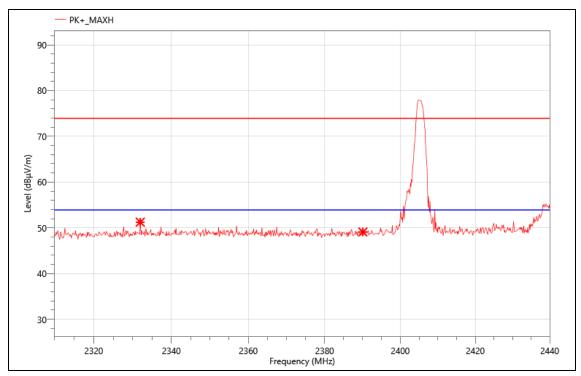
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

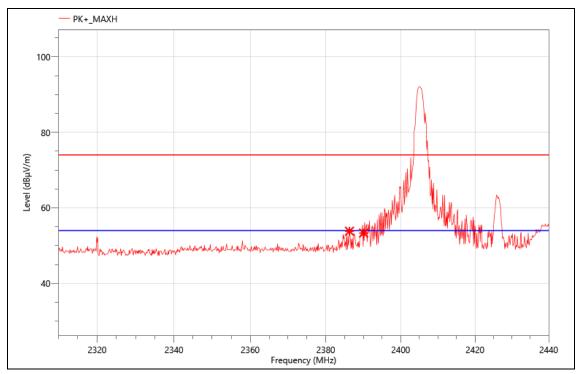
For the frequency above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.

Mode:	2405
Power:	Battery 3.7V
TE:	Big
Date	2025/01/10
T/A/P	23.5°C/51%/101Kpa



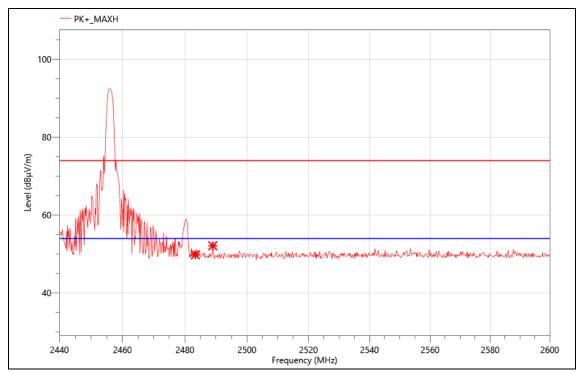
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2331.970	28.66	22.58	51.24	74.00	22.76	PK+	V
2	2390.080	26.38	22.72	49.10	74.00	24.90	PK+	V

Mode:	2405
Power:	Battery 3.7V
TE:	Big
Date	2025/01/10
T/A/P	23.5°C/51%/101Kpa



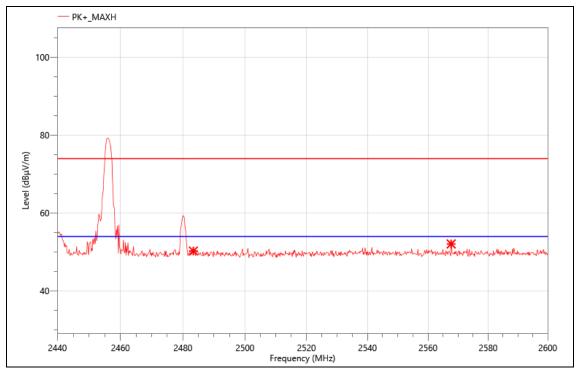
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2386.310	31.18	22.65	53.83	74.00	20.17	PK+	Н
2	2390.080	30.61	22.72	53.33	74.00	20.67	PK+	Н

Mode:	2456
Power:	Battery 3.7V
TE:	Big
Date	2025/01/10
T/A/P	23.5°C/51%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2483.360	26.60	23.15	49.75	74.00	24.25	PK+	Н
2	2488.960	28.92	23.14	52.06	74.00	21.94	PK+	Н

Mode:	2456
Power:	Battery 3.7V
TE:	Big
Date	2025/01/10
T/A/P	23.5°C/51%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2483.360	27.06	23.15	50.21	74.00	23.79	PK+	V
2	2567.680	28.78	23.24	52.02	74.00	21.98	PK+	V

Note:

1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC §15.203

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

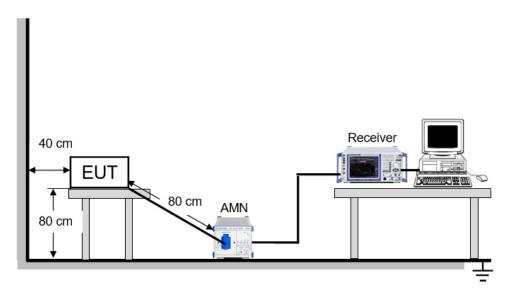
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

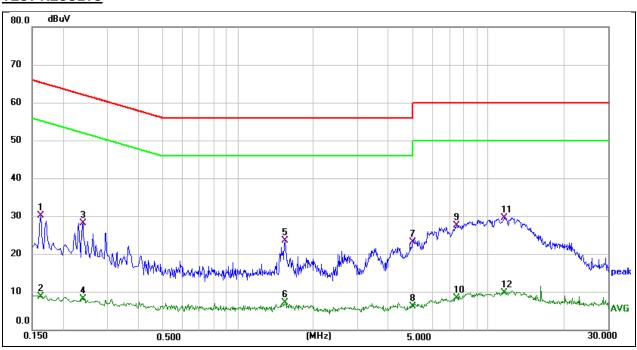
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

Temperature	23 .4℃	Relative Humidity	53%
Atmosphere Pressure	101kPa		

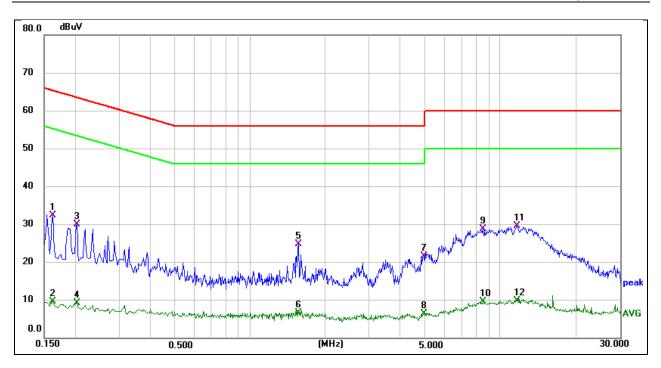


TEST RESULTS

Phase: N

Mode: 2405

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1620	20.35	9.89	30.24	65.36	-35.12	QP
2	0.1620	-0.99	9.89	8.90	55.36	-46.46	AVG
3	0.2380	18.12	10.05	28.17	62.17	-34.00	QP
4	0.2380	-1.76	10.05	8.29	52.17	-43.88	AVG
5	1.5380	14.04	9.52	23.56	56.00	-32.44	QP
6	1.5380	-2.14	9.52	7.38	46.00	-38.62	AVG
7	4.9980	13.60	9.59	23.19	56.00	-32.81	QP
8	4.9980	-3.25	9.59	6.34	46.00	-39.66	AVG
9	7.4540	17.92	9.76	27.68	60.00	-32.32	QP
10	7.4540	-1.33	9.76	8.43	50.00	-41.57	AVG
11 *	11.5020	19.81	9.91	29.72	60.00	-30.28	QP
12	11.5020	-0.03	9.91	9.88	50.00	-40.12	AVG



Mode: 2405

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1620	22.60	9.89	32.49	65.36	-32.87	QP
2	0.1620	-0.18	9.89	9.71	55.36	-45.65	AVG
3	0.2020	20.10	9.98	30.08	63.53	-33.45	QP
4	0.2020	-0.69	9.98	9.29	53.53	-44.24	AVG
5	1.5620	15.20	9.62	24.82	56.00	-31.18	QP
6	1.5620	-2.96	9.62	6.66	46.00	-39.34	AVG
7	4.9460	12.00	9.66	21.66	56.00	-34.34	QP
8	4.9460	-3.18	9.66	6.48	46.00	-39.52	AVG
9	8.5060	19.00	9.80	28.80	60.00	-31.20	QP
10	8.5060	-0.22	9.80	9.58	50.00	-40.42	AVG
11 *	11.6620	19.65	9.92	29.57	60.00	-30.43	QP
12	11.6620	0.04	9.92	9.96	50.00	-40.04	AVG

Note: 1. Result = Reading + Correct Factor.

Phase: L1

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

11. TEST DATA - Appendix B

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4G	2405	Ant1	0.664	9.954	6.67	11.76	1.51
NVNT	2.4G	2428	Ant1	0.648	9.952	6.51	11.86	1.54
NVNT	2.4G	2456	Ant1	0.648	9.742	6.65	11.77	1.54

	Dut	Test G y Cycle NVNT 2.	raphs 4G 2405MHz Ant1		
Keysight Spectrum Analyzer - Sw μ Τ RF 50 Ω Marker 3 13.0560 m	AC	SENSE:PULSE → Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	02:04:57 PM Jan 10, 2025 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N N	Marker Select Marker
Ref Offset 7. 10 dB/div Ref 20.00			Μ	kr3 13.06 ms -4.00 dBm	3
10.0 0.00			3		Norma
-10.0 -20.0 -30.0 -40.0		, when the state of the fill of the state of the		n aallaa yoo waxaa a	Delta
-50.0 <mark></mark>		n an		in the field of the stand of the	Fixed
Center 2.405000000 (Res BW 1.0 MHz		N 3.0 MHz	Sweep 20.00	Span 0 Hz 0 ms (10001 pts)	Ofi
1 N 1 t 2 N 1 t 3 N 1 t 4 6	3.106 ms 3.272 ms 13.06 ms	-4.85 dBm -3.31 dBm -4.00 dBm		E	Properties)
7 8 9 10 11					More 1 of 2
MSG		m	STATUS	Þ	
Keysight Spectrum Analyzer - Sw		/ Cycle NVNT 2.	4G 2428MHz Ant1		
	AC S PNO: Fast ↔	→ Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	02:05:57 PM Jan 10, 2025 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N N	Marker
Ref Offset 7. 10 dB/div Ref 20.00		#Atten: 00 db	M	kr3 12.87 ms -4.62 dBm	Select Marker 3
10.0 0.00			3 1 0 0 0		Norma
-10.0					
-20.0					Delta
-30.0 -40.0 -50.0 -60.0 -60.0	ti fin Pitatinoi kanatikonato Nata pityakata Pitatanaka infe	sen a sport and a sport of the sport of a sp	la sentence del con del van Desentence Desperante del sectore ponte nel sectore	upation for the state of the state upation and the state of the state upation and the state of the state	Delta Fixed¤
-30.0 -40.0 -50.0 -60.0 -70.0	in the state of the second state of the		la an function and an function of the function		_
-30.0 -40.0 -5	GHz #VB1	A S.O MHz	Sweep 20.00	Span 0 Hz 0 ms (10001 pts)	Fixed
-30.0 -40.0 -5	n <mark>ala pilipataka dalam sa dalah</mark> GHz	A S.O MHz	le posta a los de la la destructura de la contracta de la contracta de la contracta de la contracta de la contr	Span 0 Hz	Fixed
-30.0 -40.0 -5	3000 ms	N 3.0 MHz -3.64 dBm -3.64 dBm	Sweep 20.00	Span 0 Hz 0 ms (10001 pts)	_

C	outy Cycle NVNT	2.4G 2456MHz Ant1		
🔤 Keysight Spectrum Analyzer - Swept SA				- ē 🔀
₩ T RF 50 Ω AC Marker 3 13.3960 ms	SENSE:PULSE	Avg Type: Log-Pwr	02:07:07 PM Jan 10, 2025 TRACE 1 2 3 4 5 6	Marker
Marker 5 15.3960 ms	t 🛶 Trig: Free Run	Avg Type: Log-F wi		
IFGain:Lo	w #Atten: 30 dB		DET PINNNNN	Select Marker
Ref Offset 7.19 dB 10 dB/div Ref 20.00 dBm			Wkr3 13.40 ms -3.69 dBm	3
Log				
		3		Normal
		hinn		
-10.0				
-20.0				
-30.0				Delta
-40.0				
-50.0 The bally and the entries for the two	ter y had he an	aliteration of the test state	estation particular and an a state of	
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-60.0				Fixed⊳
-70.0				
Center 2.456000000 GHz			Span 0 Hz	
	/BW 3.0 MHz	Sween 20.0	30 ms (10001 pts)	Off
				•
MKR MODE TRC SCL X 1 N 1 t 3.658 ms	-2.21 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	
2 N 1 t 3.820 ms	-2.20 dBm			
3 N 1 t 13.40 ms	-3.69 dBm			Properties►
5			=	
6				
8				More
9				1 of 2
10			-	1012
•			4	
MSG		STATUS		

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2405	Ant1	-2.47	30	Pass
NVNT	2.4G	2428	Ant1	-3.27	30	Pass
NVNT	2.4G	2456	Ant1	-1.87	30	Pass

Maximum Conducted Output Power





-6dB Bandwidth

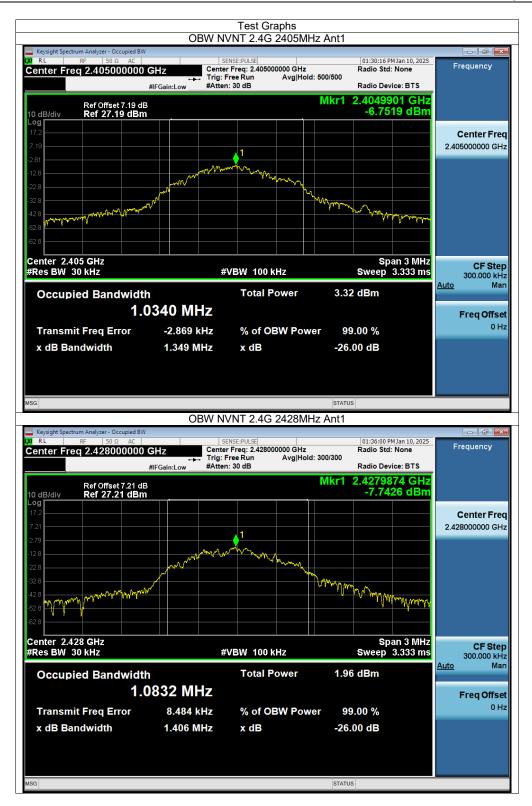
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2405	Ant1	0.64	0.5	Pass
NVNT	2.4G	2428	Ant1	0.65	0.5	Pass
NVNT	2.4G	2456	Ant1	0.63	0.5	Pass





Occupied Channel Bandwidth

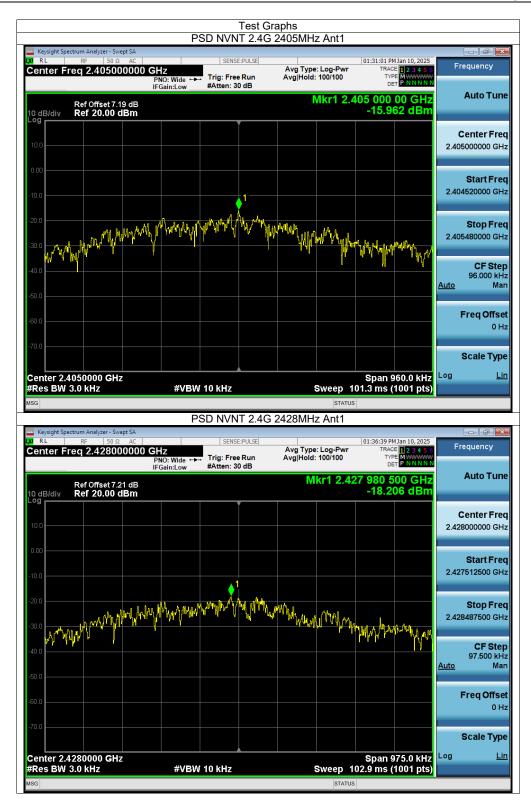
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	2.4G	2405	Ant1	1.034
NVNT	2.4G	2428	Ant1	1.083
NVNT	2.4G	2456	Ant1	1.114

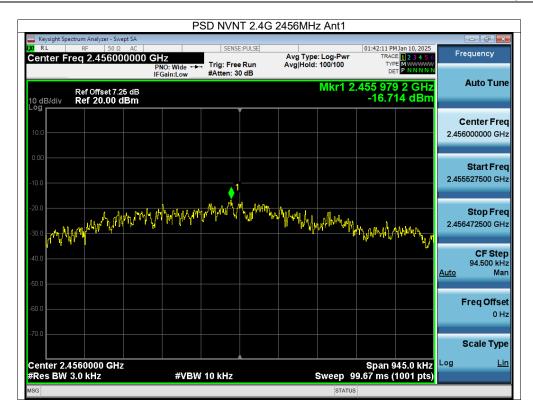




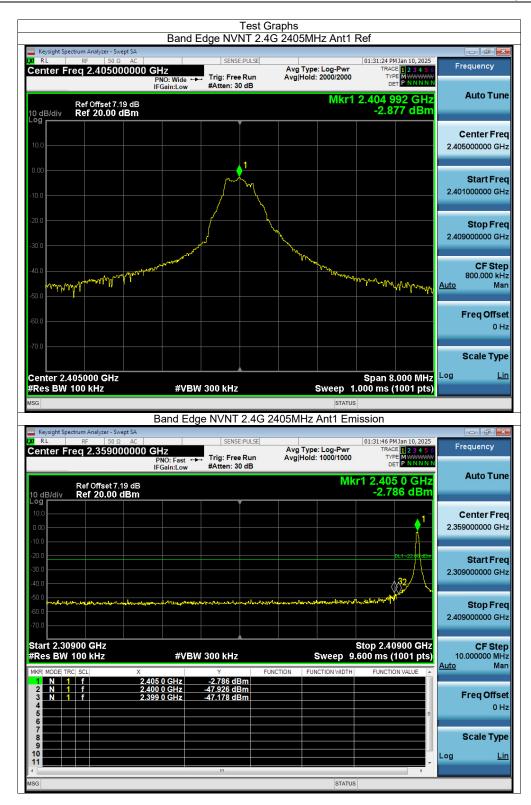
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	2.4G	2405	Ant1	-15.96	8	Pass
NVNT	2.4G	2428	Ant1	-18.21	8	Pass
NVNT	2.4G	2456	Ant1	-16.71	8	Pass

Maximum Power Spectral Density Level





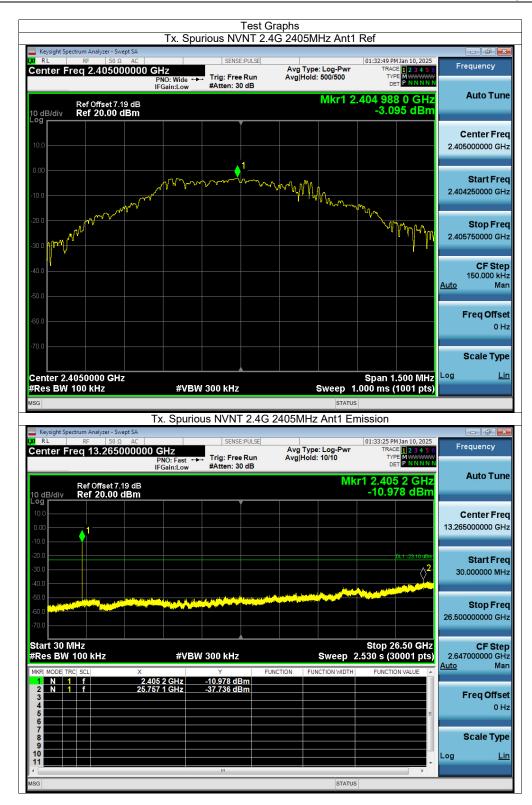
Band Edge									
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict			
NVNT	2.4G	2405	Ant1	-44.303	-20	Pass			
NVNT	2.4G	2456	Ant1	-48.517	-20	Pass			



pt SA				
AC 0000 GHz	SENSE:PULSE	Avg Type: Log-Pwr	01:43:03 PM Jan 10, 2025 TRACE 1 2 3 4 5 6	Frequency
PNO: Wide ← IFGain:Low	#Atten: 30 dB	Avg Hold: 2000/2000	DET P NNNN	
5 dB Bm		Mkr1	2.455 992 GHz -2.273 dBm	Auto Tu
				Center Fr
				2.456000000 G
	1			
	m			Start Fr
				2.452000000 G
		×~		Stop Fr
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aparapara and				CF St 800.000 k
		1.//~/	manning	Auto M
				Freq Offs 0
				Scale Ty
			Span 8.000 MHz	Log <u>I</u>
#VB	W 300 kHz	Sweep 1		
		STATUS		
	ge NVNT 2.4G 2	2456MHz Ant1 Em	ission	
AC	SENSE:PULSE	Aug Tamar Law Daw	01:43:25 PM Jan 10, 2025	Frequency
PNO: Fast ←	Trig: Free Run	Avg Hold: 1000/1000		
	#Atten: 50 db	Mk		Auto Tu
Bm			-2.179 dBm	
	ļ			Center Fr
				2.502000000 G
			DL1 22.27 dBm	
	A 3		DL1 - 22-27 dBm	
	3	Gingergerer (Newslather, processing range)	0L1 23.27.dBm	2.452000000 G
	3 Bernullemetersterstersterstersterster	Yayaya Marika alaa a	D1.1 22.27.084	2.452000000 G Stop Fr
2 1.1	3 Berruskerreten der staat name		D.1. 22 27 din D.1. 22 27 din Mandra and Angles and Ang	Start Fr 2.452000000 G Stop Fr 2.552000000 G
	3 Marguiten / or drog und/normal		ی در میکور از میکور Stop 2.55200 GHz	2.452000000 G Stop Fr 2.552000000 G CF Sto
#VB	3 3 W 300 kHz	Sweep 9.	Stop 2.55200 GHz 600 ms (1001 pts)	2.45200000 G Stop Fr 2.55200000 G CF St 10.000000 M
#VB 2.455 8 GHz	Y FU -2.179 dBm		۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ Stop 2.55200 GHz 600 ms (1001 pts)	2.45200000 G Stop Fr 2.55200000 G CF St 10.00000 M Auto M
#VB	Y FU	Sweep 9.	Stop 2.55200 GHz 600 ms (1001 pts)	2.452000000 G Stop Fr 2.552000000 G CF Sto 10.000000 M <u>Auto</u> M
#VB 2.455 8 GHz 2.483 5 GHz	Y FU -2.179 dBm -52.671 dBm	Sweep 9.	Stop 2.55200 GHz 600 ms (1001 pts)	2.45200000 G Stop Fr 2.55200000 G CF St 10.00000 M <u>Auto</u> M
#VB 2.455 8 GHz 2.483 5 GHz	Y FU -2.179 dBm -52.671 dBm	Sweep 9.	Stop 2.55200 GHz 600 ms (1001 pts)	2.45200000 G Stop Fr 2.55200000 G CF St 10.00000 M <u>Auto</u> M Freq Offs 0
#VB 2.455 8 GHz 2.483 5 GHz	Y FU -2.179 dBm -52.671 dBm	Sweep 9.	Stop 2.55200 GHz 600 ms (1001 pts)	2.45200000 G Stop Fr 2.55200000 G CF St 10.00000 M Auto M
	AC D0000 GHz IFGain:Low 5 dB Bm #VB #VB Band Ed ot SA AC 0000 GHz IFGain:Low 5 dB	AC SENSE:PULSE 0000 GHz PN: Wide ++- IFGain:Low #Atten: 30 dB 5 dB Bm 4 tten: 30 dB 4 tten: 30 dB 4 tten: 30 dB 4 tten: 30 dB 5 dB Bm 4 tten: 30 dB 5 dB	AC SENSE:PULSE PNO: Wide Trig: Free Run PRO: Wide Atten: 30 dB Avg Type: Log-Pwr Avg T	AC SENSE:PULSE AVG Type: Log-Pwr Avg Hold: 2000/2000 TrACE 12:43:0 Avg Type: Log-Pwr Avg Hold: 2000/2000 TrACE 12:43:0 TrACE 12:455 992 GHz -2.273 dBm -2.273 dBm -2.

Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2405	Ant1	-34.65	-20	Pass
NVNT	2.4G	2428	Ant1	-33.92	-20	Pass
NVNT	2.4G	2456	Ant1	-35.79	-20	Pass







END OF REPORT