





TEST REPORT

Applicant Name: Address:

Report Number: FCC ID: Bytech NY Inc. 2585 West 13th Street, Brooklyn NY 11223, New York, United States 2401V88138E-RF-00 2AHN6-KBWS105

Test Standard (s)

FCC PART 15.249

Sample Description

Product Type: Model No.: Multiple Model(s) No.: Trade Mark: Date Received: Issue Date: Wireless Honeycomb Keyboard-AC BY-KB-WS-105-AC N/A N/A 2024/08/01 2024/09/04

Test Result:

Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Sajo. ano

Jojo Guo RF Engineer

Approved By:

Michelle Zeng

Michelle Zeng RF Supervisor

Note: The information marked[#] is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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Bay Area Compliance Laboratories Corp. (Shenzhen)

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TR-EM-RF041

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Version 3.0

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2401V88138E-RF-00	Original Report	2024/09/04

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Wireless Honeycomb Keyboard-AC
Tested Model	BY-KB-WS-105-AC
Multiple Model(s)	N/A
UPC number	805112127481, 805112127498, 805112127504
SKU number	9146113
Lot number	BY083024
Frequency Range	2408-2474MHz
Maximum E-field strength	86.93 dBuV/m@3m
Modulation Technique	GFSK
Antenna Specification [#]	-0.61dBi (provided by the applicant)
Voltage Range	DC 3V from battery
Sample serial number	2P70-1 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A
Note: The product has three cold	ors, the product with blue color was selected for testing

Objective

This test report is in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.249 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter			Uncertainty
Occupied Channel Bandwidth			±5%
RI	F Frequen	су	213.55 Hz(k=2, 95% level of confidence)
RF outpu	t power, c	onducted	0.72 dB(k=2, 95% level of confidence)
Unwanted	Emission,	conducted	1.75 dB(k=2, 95% level of confidence)
AC Power Lines Cond	ucted	9kHz-150kHz	3.94dB(k=2, 95% level of confidence)
Emissions		150kHz-30MHz	3.84dB(k=2, 95% level of confidence)
		9kHz - 30MHz	3.30dB(k=2, 95% level of confidence)
	30MH	z~200MHz (Horizontal)	4.48dB(k=2, 95% level of confidence)
	30MI	Hz~200MHz (Vertical)	4.55dB(k=2, 95% level of confidence)
De liste 1 Enviroiseuro	200MH	z~1000MHz (Horizontal)	4.85dB(k=2, 95% level of confidence)
Radiated Emissions	200MI	Hz~1000MHz (Vertical)	5.05dB(k=2, 95% level of confidence)
		1GHz - 6GHz	5.35dB(k=2, 95% level of confidence)
		6GHz - 18GHz	5.44dB(k=2, 95% level of confidence)
	18GHz - 40GHz		5.16dB(k=2, 95% level of confidence)
Temperature			±1°C
Humidity			±1%
Sup	ply volta	ges	$\pm 0.4\%$

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing by manufacturer.

Frequency Channel List:

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2408	11	2428	21	2448	31	2468
2	2410	12	2430	22	2450	32	2470
3	2412	13	2432	23	2452	33	2472
4	2414	14	2434	24	2454	34	2474
5	2416	15	2436	25	2456		
6	2418	16	2438	26	2458		
7	2420	17	2440	27	2460		
8	2422	18	2442	28	2462		
9	2424	19	2444	29	2464		
10	2426	20	2446	30	2466		

Note: Test on Channel 1, 17 and 34.

EUT Exercise Software

No exercise software was used.

Equipment Modifications

No modifications were made to the unit tested.

Support Equipment List and Details

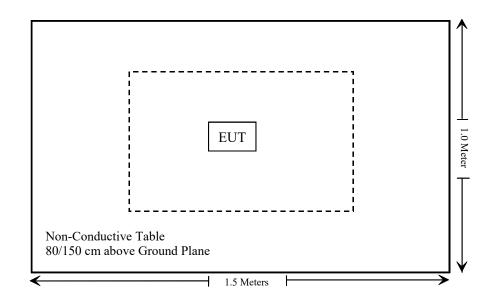
Manufacturer	Description	Model	Serial Number
/	/	/	/

Support Cable Descriptions

Cable Description	Length (m)	From/Port	То
/	/	/	/

Block Diagram of Test Setup

For Radiated Emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Result	
§1.1307 (b) (1) &§2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conduction Emissions	Not Applicable
15.205, §15.209, §15.249(d)	Radiated Emissions& Outside of Band Emission	Compliant
§15.215 (c)	20 dB Bandwidth Compl	

Not Applicable: The device is only powered by battery.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date				
	Radiated Emissions Test								
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/01/16	2025/01/15				
Sonoma instrument	Pre-amplifier	310 N	186238	2024/05/21	2025/05/20				
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19				
Unknown	Cable	Chamber A Cable 1	N/A	2024/06/18	2025/06/17				
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17				
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13				
Unknown	Cable	2Y194	0735	2024/05/21	2025/05/20				
Unknown	Cable	PNG214	1354	2024/05/21	2025/05/20				
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR				
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26				
COM-POWER	Pre-amplifier	PA-122	181919	2024/06/18	2025/06/17				
Schwarzbeck	Horn Antenna	BBHA9120D(12 01)	1143	2023/07/26	2026/07/25				
Unknown	RF Cable	KMSE	735	2024/06/18	2025/06/17				
Unknown	RF Cable	UFA147	219661	2024/06/18	2025/06/17				
Unknown	RF Cable	XH750A-N	J-10M	2024/06/18	2025/06/17				
JD	Multiplex Switch Test Control Set	DT7220FSU	DQ77926	2024/06/18	2025/06/17				
A.H.System	Pre-amplifier	PAM-1840VH	190	2024/06/18	2025/06/17				
Electro-Mechanics Co	Horn Antenna	3116	2026	2023/09/18	2026/09/17				
UTIFLEX	RF Cable	NO. 13	232308-001	2024/06/18	2025/06/17				
Audix	EMI Test software	E3	191218(V9)	NCR	NCR				

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§1.1307 (b) (1) & §2.1093- RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. f(GHz) is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Result

Mode	Frequency	Maximum E- Field (dBuV/m@3 m)	Maximum EIRP(dBm)	Maximum Tune up EIRP (dBm)	Maximum Tune up EIRP (mW)	Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
GFSK	2408-2474	86.93	-8.27	-8.00	0.16	5	0.1	3	Yes

Note: EIRP = E-Field -95.2 @3m

Result: Compliant.

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

According 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.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connector Construction

The EUT has PCB antenna which was permanently attached and the antenna gain[#] is -0.61dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Antenna Gain [#] (dBi)	Impedance	Frequency Range
РСВ	-0.61	50Ω	2408-2474MHz

Result: Compliant.

FCC§15.205, §15.209 & §15.249(d) - RADIATED EMISSIONS

Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

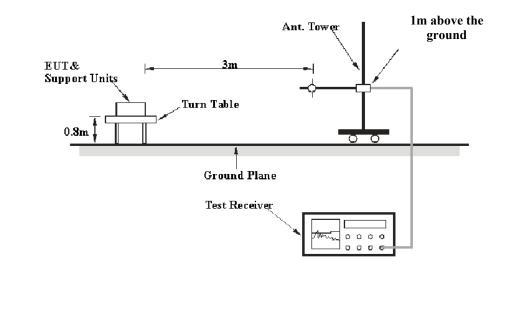
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

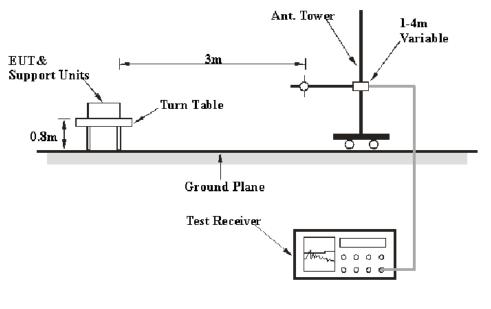
As per FCC§15.249 (d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

EUT Setup

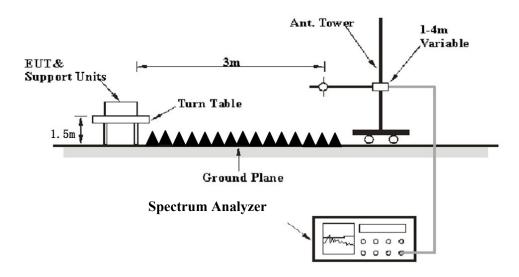
9 kHz-30MHz:



30MHz-1GHz:



Above 1GHz:



The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

EMI Test Receiver & Spectrum Analyzer Setup

Frequency Range	RBW	Video B/W	IF B/W	Measurement		
9 kHz – 150 kHz	/	/	200 Hz	QP		
9 кпz – 130 кпz	300 Hz	1 kHz	/	РК		
150 kHz – 30 MHz	/	/	9 kHz	QP		
130 KHZ – 30 MHZ	10 kHz	30 kHz	/	PK		
30 MHz – 1000 MHz	/	/	120 kHz	QP		
30 MHZ – 1000 MHZ	100 kHz	300 kHz	/	PK		
	Harmonics & Band Edge					
	1MHz	3 MHz	/	PK		
Above 1 GHz	Average Emission Level=Peak Emission Level+20*log(Duty cycle)					
Above I GHZ	Other Emissions					
	1MHz	3 MHz	/	PK		
	1MHz	10 Hz	/	Average		

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

For Duty cycle measurement:

Use the duty cycle factor correction factor method per 15.35(c). Duty cycle=On time/100milliseconds, On time=N1*L1+N2*L2+...Nn-1*Ln-1+Nn*Ln, Where N1 is number of type 1 pulses, L1 is length of type 1 pulse, etc.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane for below 1GHz or 1.5 meter for above 1GHz, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

All emissions under the average limit and under the noise floor have not recorded in the report.

Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit; Margin = Limit–Corrected Amplitude Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	23~27 °C
Relative Humidity:	50~55 %
ATM Pressure:	101 kPa

The testing was performed by Jack Liu on 2024-08-10 for below 1GHz and Sadow Tan from 2024-08-12 to 2024-09-04 for above 1GHz.

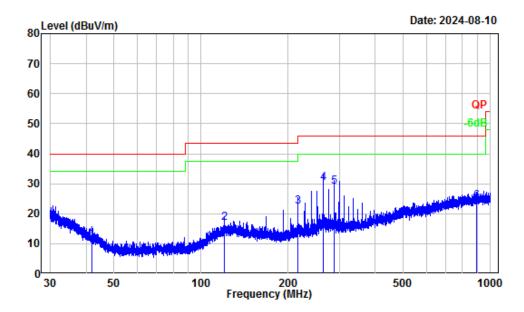
EUT operation mode: Transmitting

9 kHz- 30 MHz (Maximum output power mode, Middle channel):

The amplitude of spurious emissions attenuated more than 20 dB below the limit was not recorded.

30MHz-1 GHz (Maximum output power mode, Middle channel):

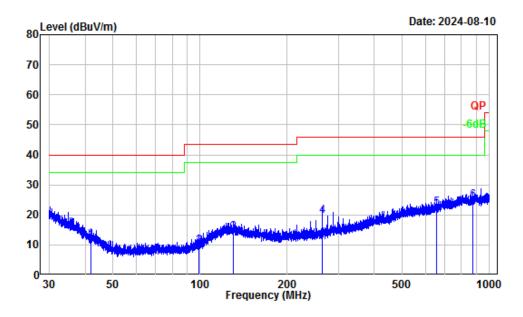
Horizontal



Site	:	Chamber A
Condition	:	3m Horizontal
Project Number	:	2401V88138E-RF
Test Mode	:	Transmitting
Tester	:	Jack Liu

					Limit		
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHZ	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	42.01	-13.49	25.07	11.58	40.00	-28.42	QP
2	120.01	-11.45	28.36	16.91	43.50	-26.59	QP
3	216.02	-13.06	35.31	22.25	46.00	-23.75	QP
4	264.05	-12.55	42.82	30.27	46.00	-15.73	QP
5	287.99	-11.65	40.67	29.02	46.00	-16.98	QP
6	897.39	-1.33	25.37	24.04	46.00	-21.96	QP





Site :	Chamber A
Condition :	3m Vertical
Project Number:	2401V88138E-RF
Test Mode :	Transmitting
Tester :	Jack Liu

	Freq	Factor			Limit Line		Remark
-	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	41.97	-13.47	24.83	11.36	40.00	-28.64	QP
2	99.27	-16.05	25.86	9.81	43.50	-33.69	QP
3	129.92	-11.21	25.44	14.23	43.50	-29.27	QP
4	264.05	-12.55	32.12	19.57	46.00	-26.43	QP
5	654.52	-4.07	26.48	22.41	46.00	-23.59	QP
6	874.86	-1.51	26.35	24.84	46.00	-21.16	QP

Above 1GHz:

F	Rece	iver	Polar	Easter	Absolute	T ::!4	Manala
Frequency (MHz)	Reading (dBµV)	PK/AV	(H/V)	Factor (dB/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Low Channel				
2407.50	90.13	PK	Н	-3.20	86.93	114	-27.07
2407.69	84.32	PK	V	-3.19	81.13	114	-32.87
2382.35	57.32	РК	Н	-3.19	54.13	74	-19.87
2382.25	55.14	РК	V	-3.19	51.95	74	-22.05
2400	52.79	РК	Н	-3.21	49.58	74	-24.42
2400	50.95	РК	V	-3.21	47.74	74	-26.26
4816	53.65	РК	Н	1.69	55.34	74	-18.66
4816	45.84	РК	V	1.69	47.53	74	-26.47
			Middle Channel				
2440.00	89.52	PK	Н	-3.13	86.39	114	-27.61
2440.00	78.37	PK	V	-3.13	75.24	114	-38.76
4880	53.94	PK	Н	1.69	55.63	74	-18.37
4880	48.22	РК	V	1.69	49.91	74	-24.09
			High Channel				
2474.45	89.03	РК	Н	-3.15	85.88	114	-28.12
2474.47	85.18	РК	V	-3.15	82.03	114	-31.97
2484.149	56.33	РК	Н	-3.17	53.16	74	-20.84
2484.276	55.34	РК	V	-3.17	52.17	74	-21.83
4948.00	53.92	РК	Н	1.79	55.71	74	-18.29
4948.00	49.64	РК	V	1.79	51.43	74	-22.57

Note:

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Absolute Level (Corrected Amplitude) = Factor + Reading

Margin = Absolute Level - Limit

The other spurious emission which is 20dB to the limit or in noise floor level was not recorded.

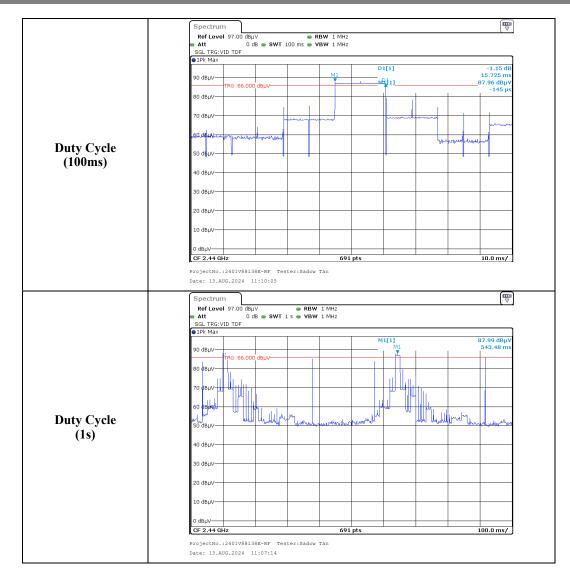
Field Strength of Average							
Frequency (MHz)	Peak Measurement @3m (dBµV/m)	Polar (H/V)	Duty Cycle Corrected Factor (dB)	Average Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Comment
			Low Cl	annel			
2407.50	86.93	Н	-16.08	70.85	94	-23.15	Fundamental
2407.69	81.13	V	-16.08	65.05	94	-28.95	Fundamental
2382.35	54.13	Н	-16.08	38.05	54	-15.95	Bandedge
2382.25	51.95	V	-16.08	35.87	54	-18.13	Bandedge
2400.00	49.58	Н	-16.08	33.50	54	-20.50	Bandedge
2400.00	47.74	V	-16.08	31.66	54	-22.34	Bandedge
4816.00	55.34	Н	-16.08	39.26	54	-14.74	Harmonic
4816.00	47.53	V	-16.08	31.45	54	-22.55	Harmonic
			Middle (Channel			
2440.00	86.39	Н	-16.08	70.31	94	-23.69	Fundamental
2440.00	75.24	V	-16.08	59.16	94	-34.84	Fundamental
4880.00	55.63	Н	-16.08	39.55	54	-14.45	Harmonic
4880.00	49.91	V	-16.08	33.83	54	-20.17	Harmonic
			High Cl	nannel			
2474.45	85.88	Н	-16.08	69.80	94	-24.20	Fundamental
2474.47	82.03	V	-16.08	65.95	94	-28.05	Fundamental
2484.15	53.16	Н	-16.08	37.08	54	-16.92	Bandedge
2484.28	52.17	V	-16.08	36.09	54	-17.91	Bandedge
4948.00	55.71	Н	-16.08	39.63	54	-14.37	Harmonic
4948.00	51.43	V	-16.08	35.35	54	-18.65	Harmonic

Note:

Average level= Peak level+ Duty Cycle Corrected Factor Margin = Average level - Limit

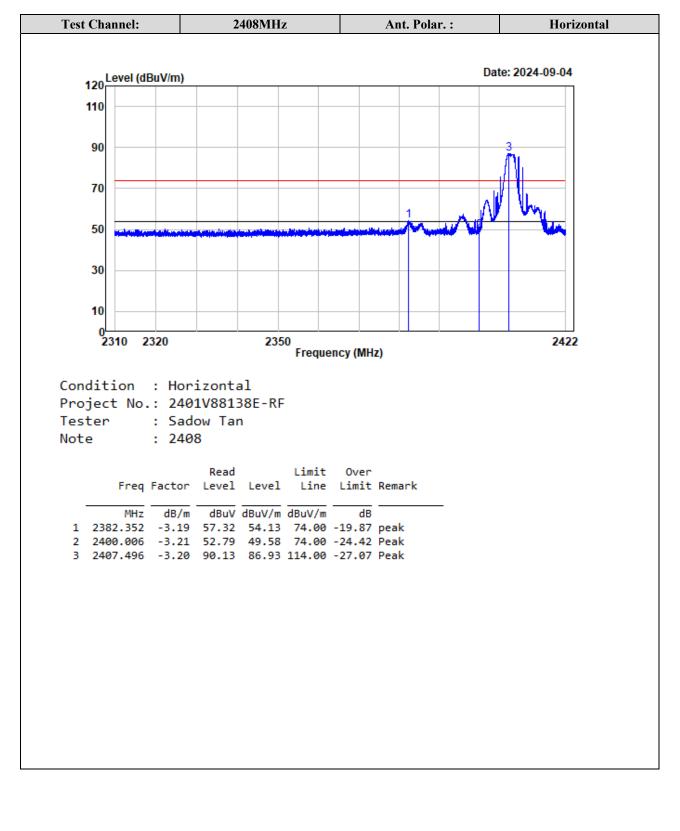
Worst case duty cycle: Duty cycle = Ton/100ms = 15.7/100=0.157 Duty Cycle Corrected Factor = 20lg (Duty cycle) = 20lg0.157 = -16.08

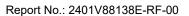
Report No.: 2401V88138E-RF-00

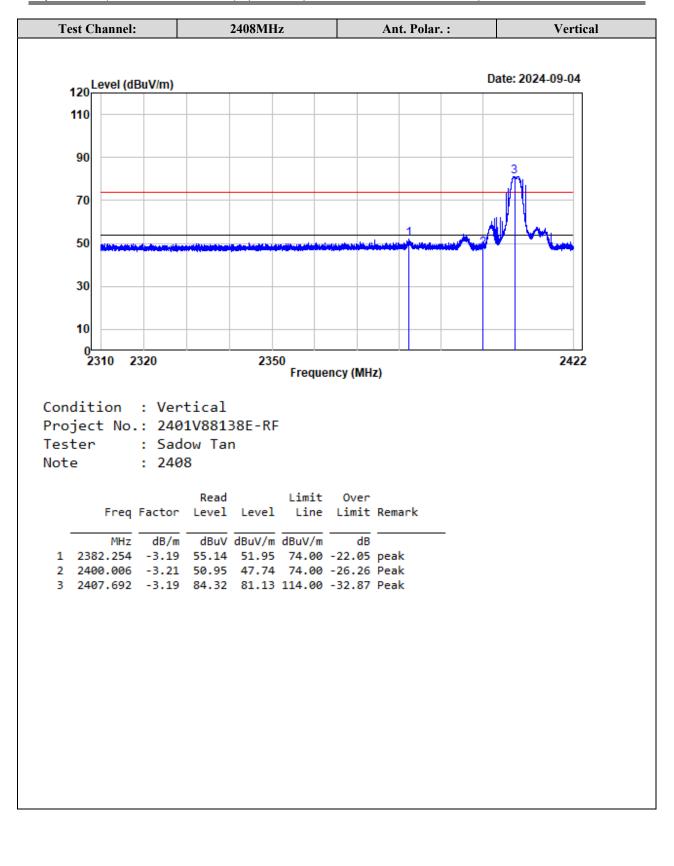


Report No.: 2401V88138E-RF-00

Test plots for Band Edge Measurements:

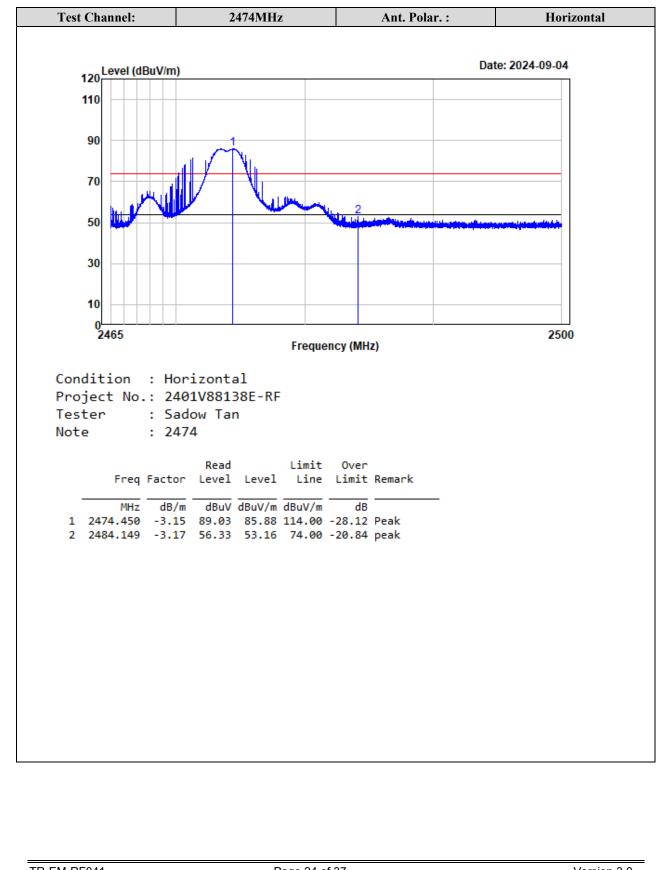




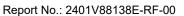


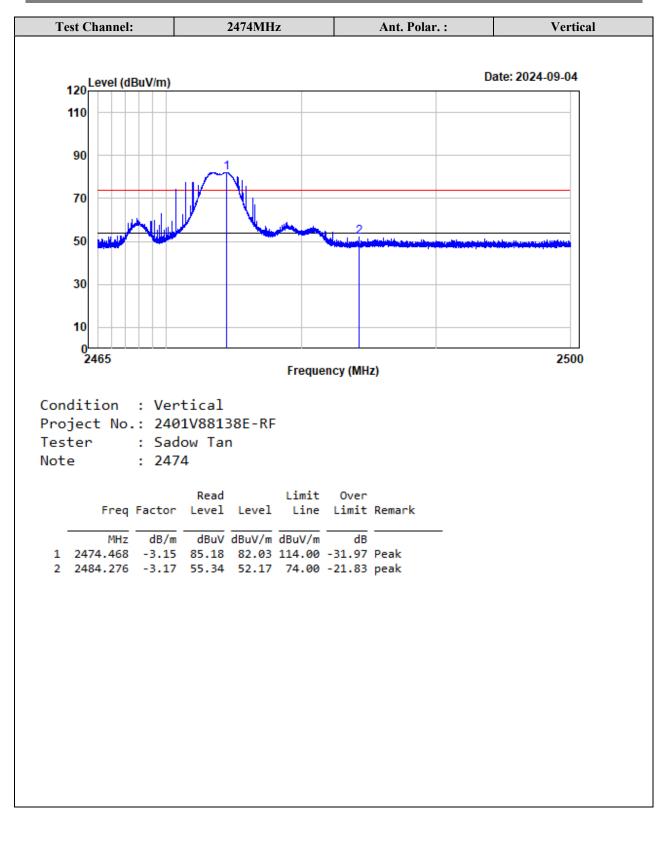


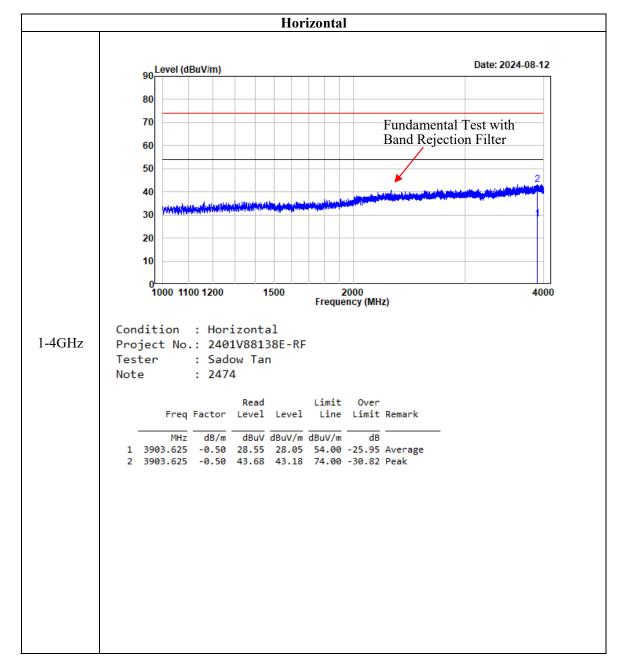
Report No.: 2401V88138E-RF-00





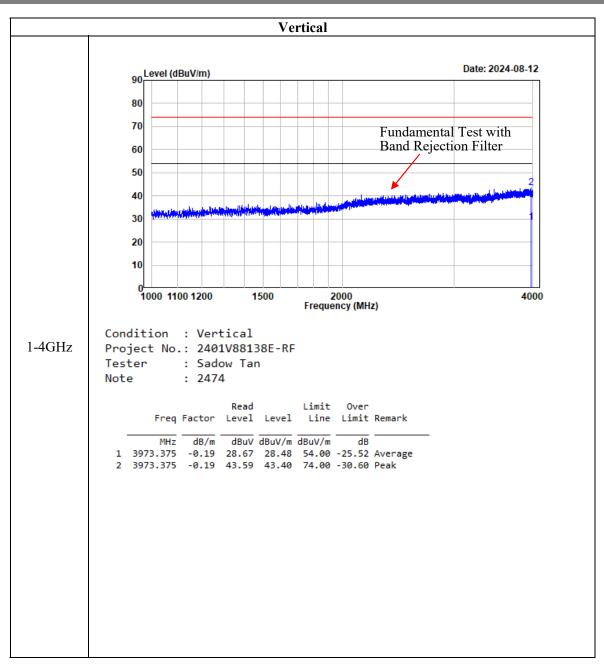




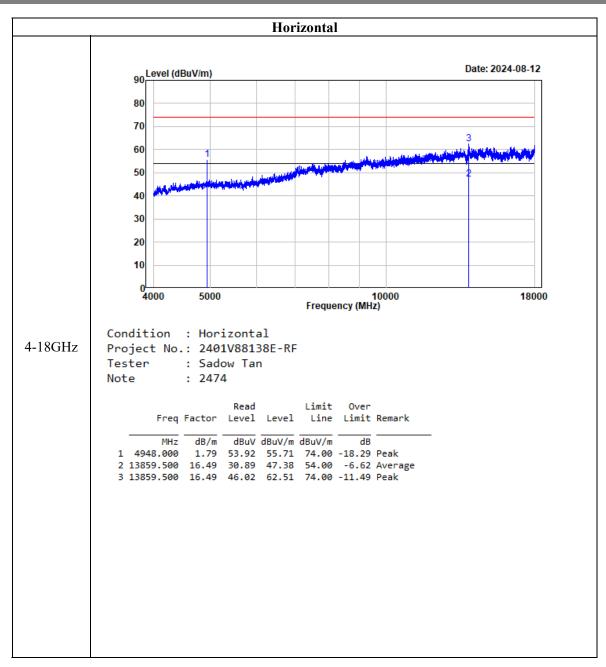


Listed with the harmonic margin test plot (worst case, High channel):

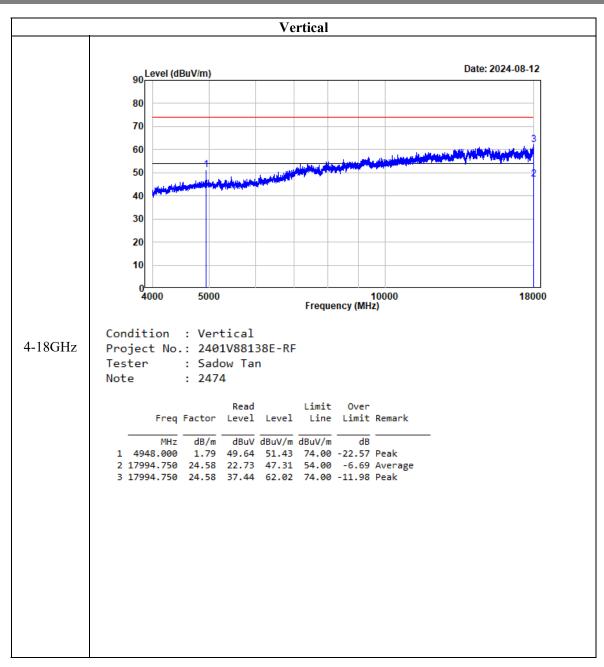
Report No.: 2401V88138E-RF-00



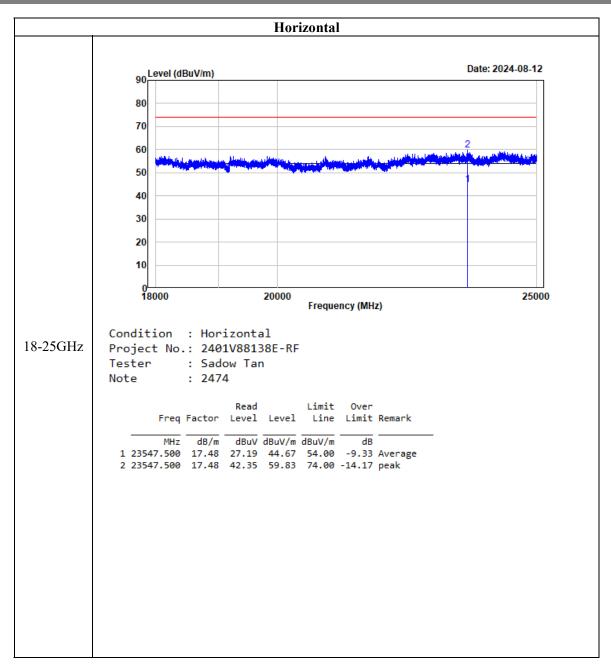
Report No.: 2401V88138E-RF-00



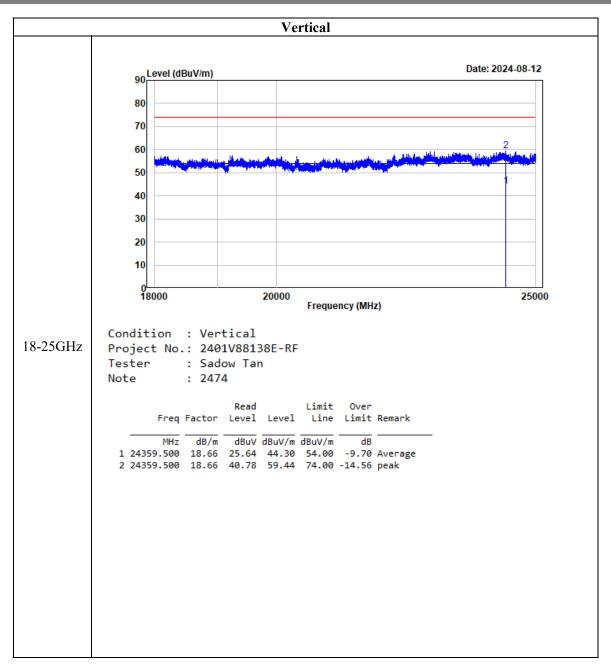
Report No.: 2401V88138E-RF-00



Report No.: 2401V88138E-RF-00



Report No.: 2401V88138E-RF-00



FCC§15.215(c) - 20dB EMISSION BANDWIDTH

Applicable Standard

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.7 & Clause 6.9.2

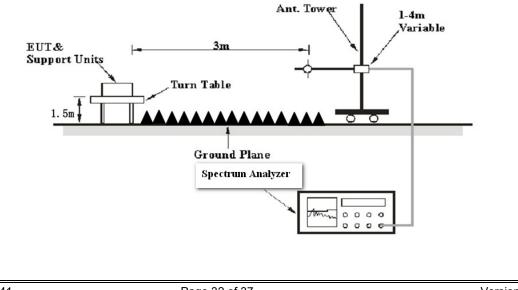
The following conditions shall be observed for measuring the occupied bandwidth and 20 dB bandwidth:

• The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

• The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

• The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / 20 dB bandwidth if the device is not transmitting continuously.

• The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW/ 20dB bandwidth and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.



Test Data

Environmental Conditions

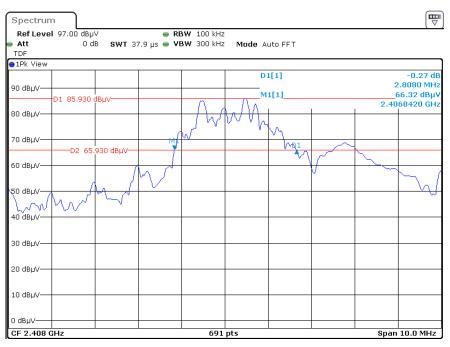
Temperature:	25.6 °C
Relative Humidity:	50 %
ATM Pressure:	101 kPa

The testing was performed by Sadow Tan on 2024-08-13.

EUT operation mode: Transmitting

Please refer to the following table and plots.

Channel	Frequency (MHz)	20dB Bandwidth (MHz)
Low	2408	2.808
Middle	2440	2.504
High	2474	2.359



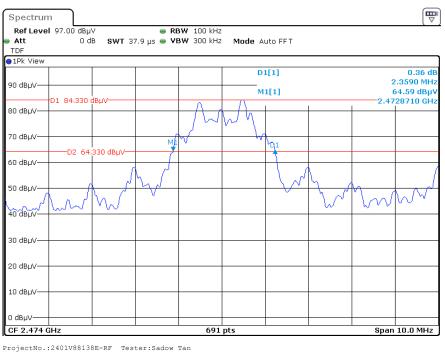
Low channel

ProjectNo.:2401V88138E-RF Tester:Sadow Tan
Date: 13.AUG.2024 13:14:18



Middle Channel

ProjectNo.:2401V88138E-RF Tester:Sadow Tan
Date: 13.AUG.2024 13:17:11



High Channel

ProjectNo.:2401V88138E-RF Tester:Sadow Ta Date: 13.AUG.2024 13:19:42

EUT PHOTOGRAPHS

Please refer to the attachment 2401V88138E-RF External photo and 2401V88138E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2401V88138E-RF Test Setup photo.

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