





TEST REPORT

Applicant Name: Address: Dongguan Yinqu Technology Co.,Ltd Room 201, Building 1,No. 65 ZhengWei Fourth Road, DongKeng Town, DongGuan City,GuangDong Province China 2501P43008E-RF-00 2BFXU-KYB001

Test Standard (s)

Report Number:

FCC ID:

FCC PART 15.249

Sample Description

Product Type: Model No.: Multiple Model(s) No.: Trade Mark: Date Received: Issue Date: WIRELESS KEYBOARD PCEA-1261-GN PCEA-1261-BL, KYB001, KYB002 Prime Audio 2025/02/07 2025/03/11

Test Result:

Pass▲

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

Prepared and Checked By:

Allen, Bai

Allen Bai RF Engineer Approved By:

Michelle Zen

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	2501P43008E-RF-00	Original Report	2025/03/11

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	WIRELESS KEYBOARD	
Tested Model	PCEA-1261-GN	
Multiple Model(s)	PCEA-1261-BL,KYB001,KYB002	
UPC Number	195207123192, 195207123208, 195207123215	
SKU Number	9185187	
Frequency Range	2402-2479MHz	
Maximum E-field Strength (Peak)	89.29 dBuV/m@3m	
Modulation Technique	GFSK	
Voltage Range	DC 1.5V from battery	
Sample serial number	2XWR-3 (Assigned by BACL, Shenzhen)	
Sample/EUT Status	Good condition	
Adapter Information	N/A	
Note: The multiple models are electrically identical with the test model except for color and button shape.		

Please refer to the declaration letter[#] for more detail, which was provided by manufacturer.

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 C63.10-2020, 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.

Parameter			Uncertainty
Occupied Channel Bandwidth		Bandwidth	109.2kHz(k=2, 95% level of confidence)
RF Frequency		су	56.6Hz(k=2, 95% level of confidence)
RF output	t power, c	onducted	0.86dB(k=2, 95% level of confidence)
Unwanted	Emission,	conducted	1.60dB(k=2, 95% level of confidence)
AC Power Lines Cond	ucted	9kHz-150kHz	3.63dB(k=2, 95% level of confidence)
Emissions		150kHz-30MHz	3.66dB(k=2, 95% level of confidence)
	0	.009MHz~30MHz	3.60dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)		5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)		5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)		5.77dB(k=2, 95% level of confidence)
Radiated Emissions	200M	Hz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
		1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
		6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz		5.64dB(k=2, 95% level of confidence)
Temperature		·e	±1°C
Humidity			±1%
Supply voltages		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)
1	2402	9	2446
2	2408	10	2451
3	2417	11	2456
4	2419	12	2460
5	2421	13	2468
6	2423	14	2474
7	2428	15	2478
8	2437	16	2479

Note: Test on Channel 1, 8 and 16.

EUT Exercise Software

"fcc_test_tool.exe"exercise software was used; the power level is default that was provided by the applicant.

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
/	/	/	/

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Block Diagram of Test Setup

For Radiated Emissions:

Non-Conductive Table 80/150 cm above Ground Plane	EUT	▲ 1.0 Meter
<hr/>	1.5 Meters	\downarrow

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 (b) (3) &§2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conducted Emissions	Not Applicable
15.205, §15.209, §15.249(d)	Radiated Emissions& Outside of Band Emission	Compliant
§15.215 (c)	20 dB Bandwidth	Compliant

Not Applicable: The EUT is powered by battery, so this item is not required.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date			
	Radiated Emissions Test&20 dB bandwidth							
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03			
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	2024/12/04	2025/12/03			
Unknown	Cable	PNG214	1354	2024/12/04	2025/12/03			
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26			
A.H.System	Preamplifier	PAM-0118P	489	2024/11/15	2025/11/14			
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25			
Unknown	RF Cable	KMSE	735	2024/12/06	2025/12/05			
Unknown	RF Cable	UFA147	219661	2024/12/06	2025/12/05			
Unknown	RF Cable	XH750A-N	J-10M	2024/12/06	2025/12/05			
JD	Filter Switch Unit	DT7220FSU	DS79906	2024/09/09	2025/09/08			
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2024/09/09	2025/09/08			
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26			
A.H.System	Pre-amplifier	PAM-1840VH	190	2024/06/18	2025/06/17			
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17			
UTIFLEX	RF Cable	NO. 13	232308-001	2024/12/18	2025/12/17			
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).

§1.1307 (b) (3) &§2.1093 - RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (3), 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 D04 Interim General RF Exposure Guidance V01

1-mW Test Exemption:

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

Test Result

For worst case:

Mada	Frequency	Maximum E-Field	Maximu	n EIRP	1-mW Test
Mode (MHz)	(MHz)	(dBuV/m@3m)	(dBm)	(mW)	Exemption
GFSK	2402-2479	89.29	-5.91	0.256	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 a monopole antenna which was permanently attached that fulfills the requirement of this section. Please refer to the EUT photos and below table.

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:

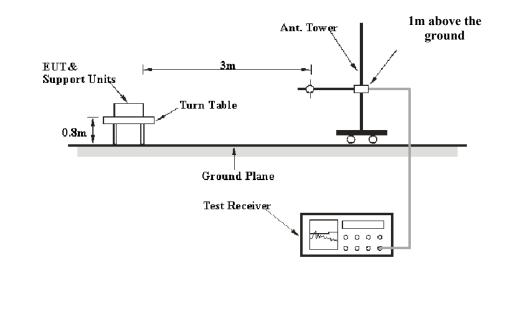
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

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

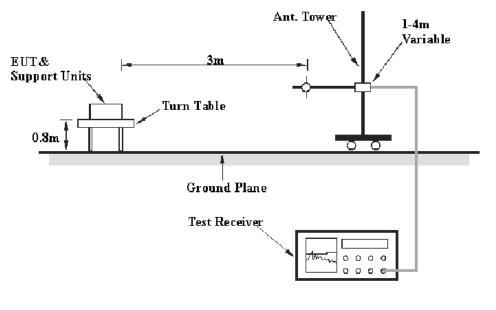
As per FCC§15.249 (d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

EUT Setup

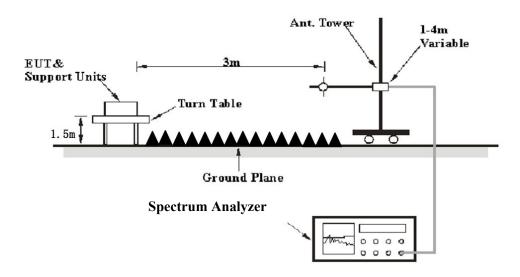
9 kHz-30MHz:



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 C63.10-2020. 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 KHZ – 130 KHZ	300 Hz	1 kHz	/	PK		
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					
	1MHz	3 MHz	/	PK		
Above 1 GHz	Average Emission Level=Peak Emission Level+20*log(Duty cycle)					
	Band Edge & 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.

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.

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

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:	22.8~23.6°C	
Relative Humidity:	46~53 %	
ATM Pressure:	101.4~ 102.4 kPa	

The testing was performed by Anson Su on 2025-02-21 for below 1GHz and Visen Wu on 2025-02-22 for above 1GHz.

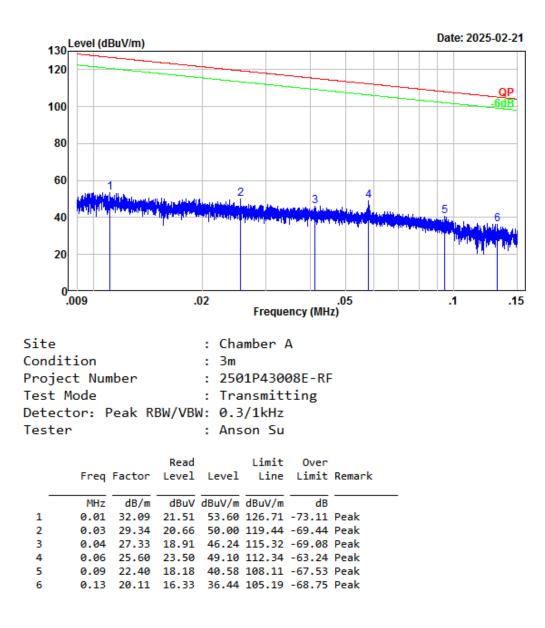
EUT operation mode: Transmitting

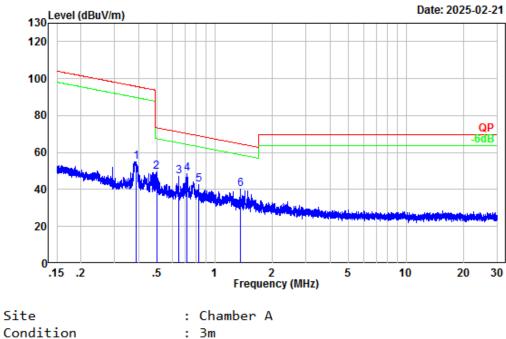
Note: Pre-scan in the X, Y and Z axes of orientation, the worst case Z-axis of orientation was recorded

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

Note: When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.

Parallel (worst case)



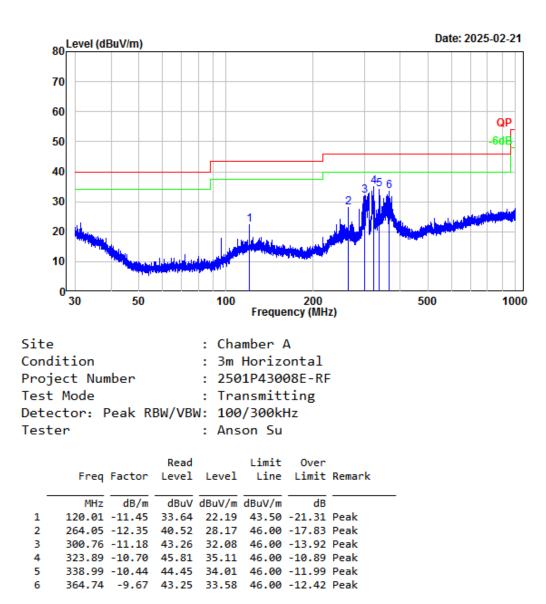


SILE	: Chamber A
Condition	: 3m
Project Number	: 2501P43008E-RF
Test Mode	: Transmitting
Detector: Peak RBW/V	/BW: 10/30kHz
Tester	: Anson Su

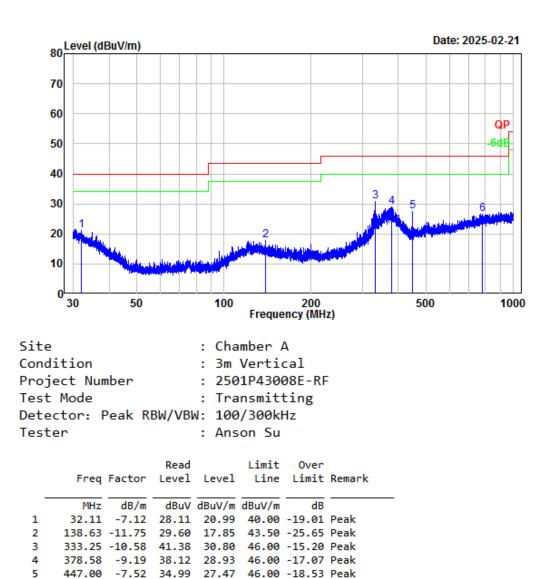
	Freq	Factor	Read Level		Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.39	8.52	46.36	54.88	95.82	-40.94	Peak
2	0.50	6.46	42.84	49.30	73.67	-24.37	Peak
3	0.65	4.54	42.63	47.17	71.29	-24.12	Peak
4	0.72	3.72	44.82	48.54	70.42	-21.88	Peak
5	0.82	2.53	40.35	42.88	69.21	-26.33	Peak
6	1.36	0.19	39.95	40.14	64.73	-24.59	Peak

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

Horizontal







6

782.69 -2.36 29.02 26.66 46.00 -19.34 Peak

Above 1GHz:

Frequency (MHz)	Reading (dBµV)	PK/AV	Polar (H/V)	Factor (dB/m)	Absolute Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
			Low Channel					
2401.872	99.92	РК	Н	-11.01	88.91	114.00	-25.09	
2401.886	89.36	PK	V	-11.01	78.35	114.00	-35.65	
4804.00	71.47	PK	Н	-7.79	63.68	74	-10.32	
4804.00	71.09	PK	V	-7.79	63.30	74	-10.70	
	Middle Channel							
2437.00	100.22	PK	Н	-10.93	89.29	114.00	-24.71	
2437.00	87.96	PK	V	-10.93	77.03	114.00	-36.97	
4874.00	71.57	РК	Н	-7.61	63.96	74	-10.04	
4874.00	69.74	РК	V	-7.61	62.13	74	-11.87	
	High Channel							
2478.877	98.75	РК	Н	-10.96	87.79	114.00	-26.21	
2479.350	88.77	PK	V	-10.97	77.80	114.00	-36.20	
4958.00	71.64	PK	Н	-7.62	64.02	74	-9.98	
4958.00	67.61	РК	V	-7.62	59.99	74	-14.01	

Note:

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

Absolute Level/Level= Factor + Reading

Margin = Absolute Level/Level - Limit

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

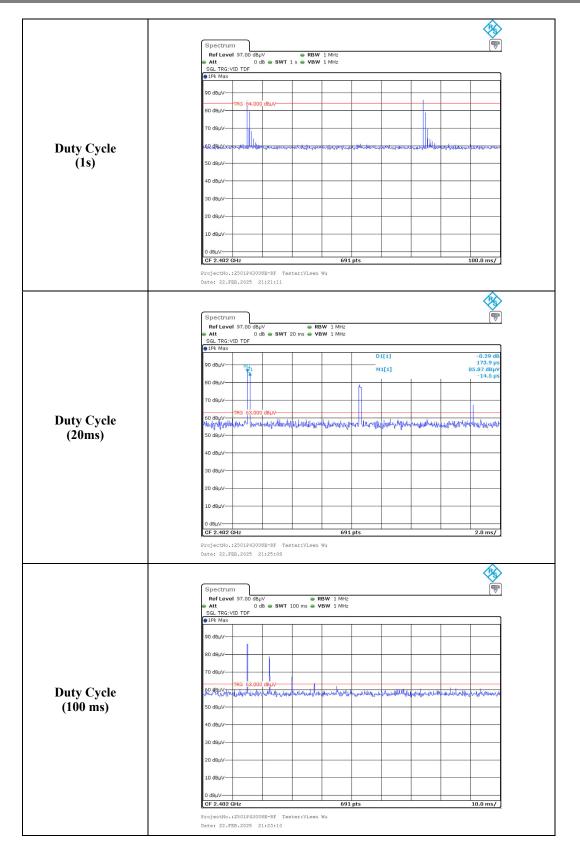
Field Strength of Average								
Frequency (MHz)	Peak Measurement @3m (dBµV/m)	Polar (H/V)	Duty Cycle Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Comment	
			Low Channe	el 2402MHz				
2401.872	88.91	Н	-55.19	33.72	94	-60.28	fundamental	
2401.886	78.35	V	-55.19	23.16	94	-70.84	fundamental	
4804.00	63.68	Н	-55.19	8.49	54	-45.51	Harmonic	
4804.00	63.30	V	-55.19	8.11	54	-45.89	Harmonic	
	Middle Channel 2437MHz							
2437.00	89.29	Н	-55.19	34.10	94	-59.90	fundamental	
2437.00	77.03	V	-55.19	21.84	94	-72.16	fundamental	
4874.00	63.96	Н	-55.19	8.77	54	-45.23	Harmonic	
4874.00	62.13	V	-55.19	6.94	54	-47.06	Harmonic	
	High Channel 2479MHz							
2478.877	87.79	Н	-55.19	32.60	94	-61.40	fundamental	
2479.350	77.80	V	-55.19	22.61	94	-71.39	fundamental	
4958.00	64.02	Н	-55.19	8.83	54	-45.17	Harmonic	
4958.00	59.99	V	-55.19	4.80	54	-49.20	Harmonic	

Note:

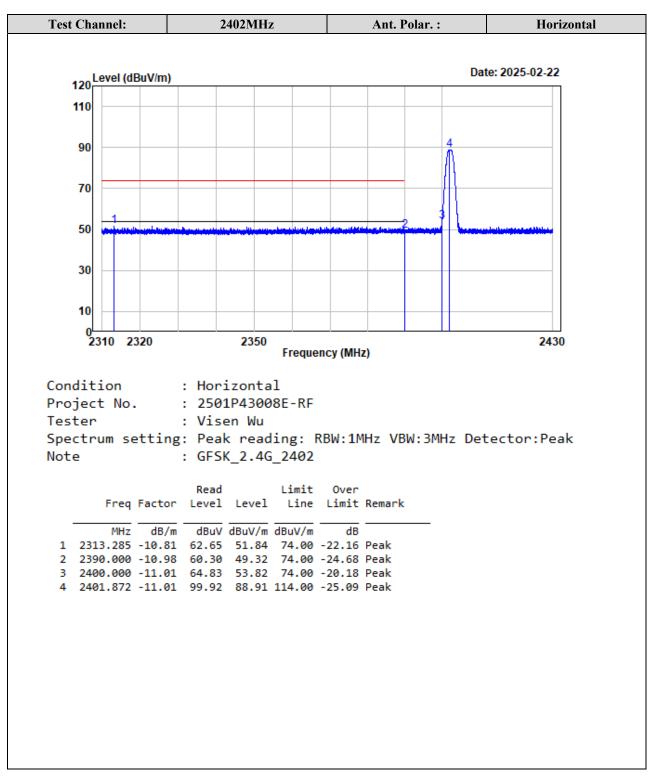
Average level= Peak level+ Duty Cycle Corrected Factor Margin = Average level - Limit

Duty cycle: Ton =0.1739ms Duty cycle = Ton/100 = 0.1739/100=0.001739 Duty Cycle Corrected Factor = 20lg (Duty cycle) = 20lg0.001739= -55.19

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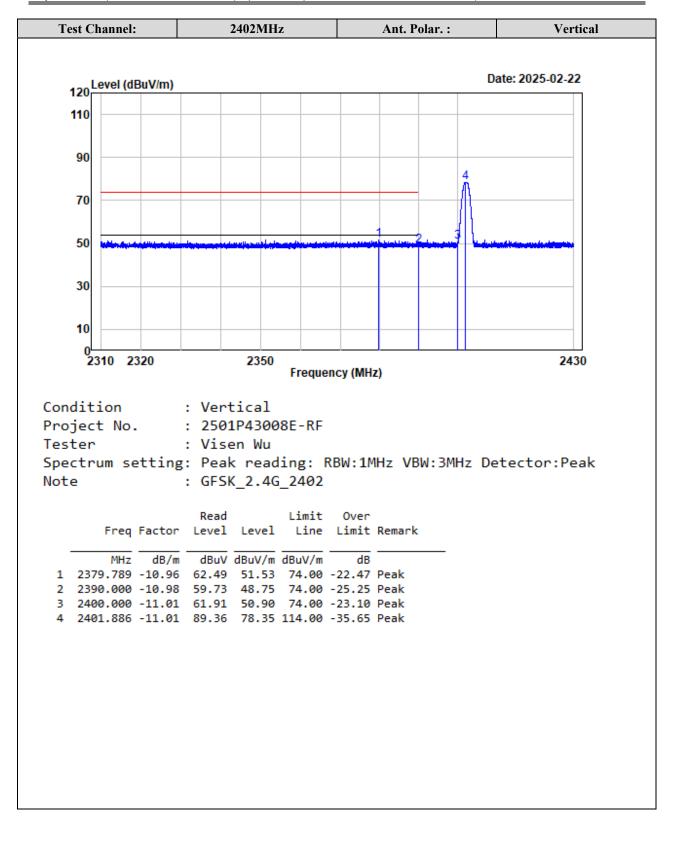


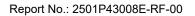
Report No.: 2501P43008E-RF-00

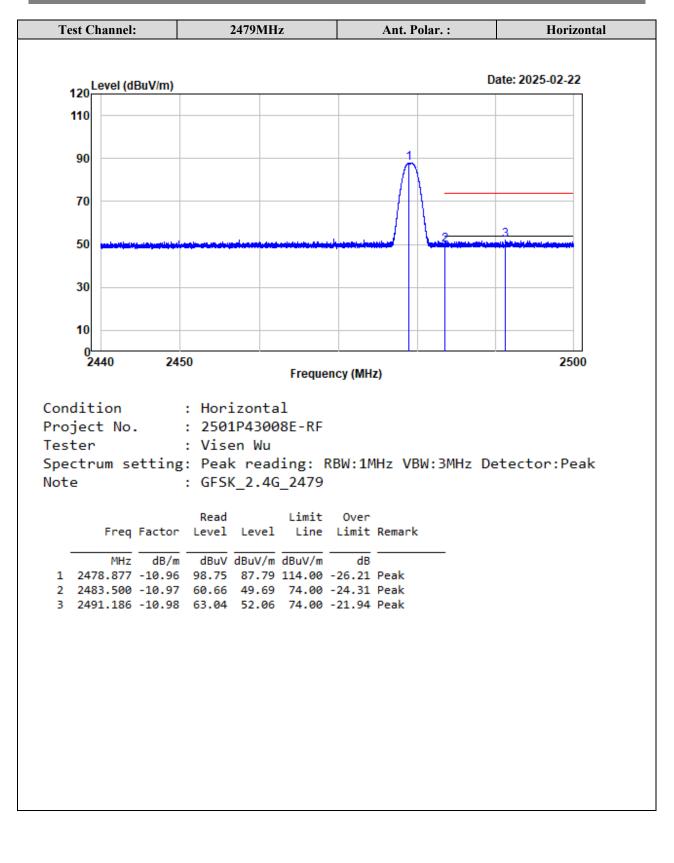


Test plots for Band Edge Measurements (Radiated):

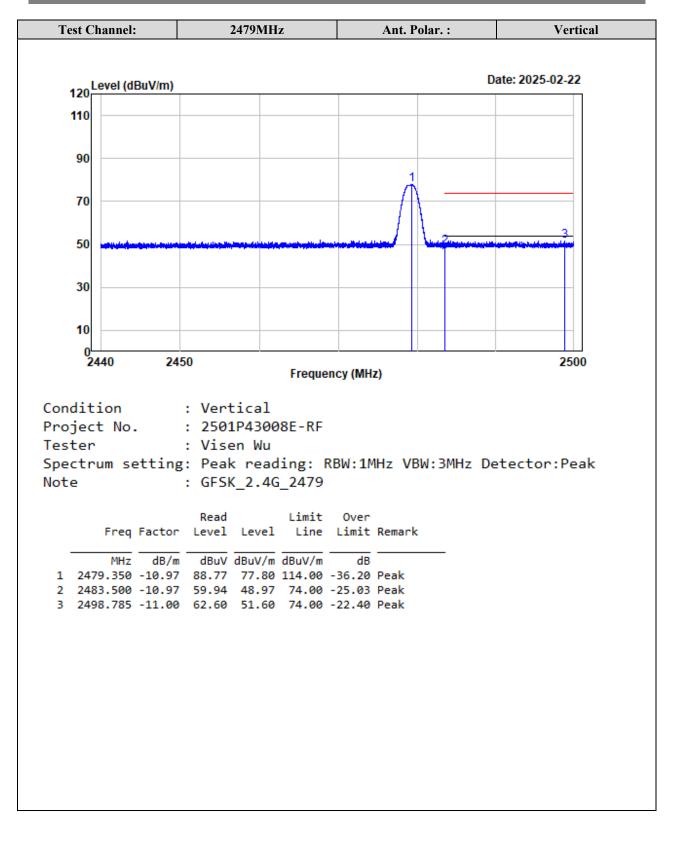


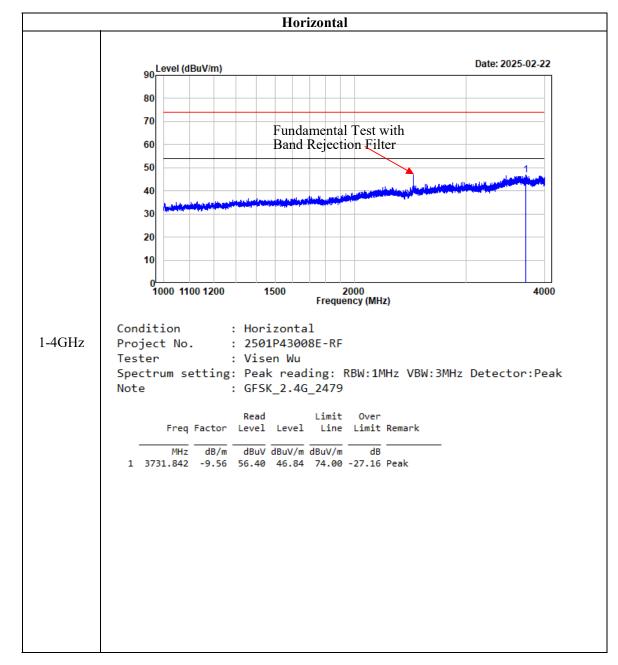






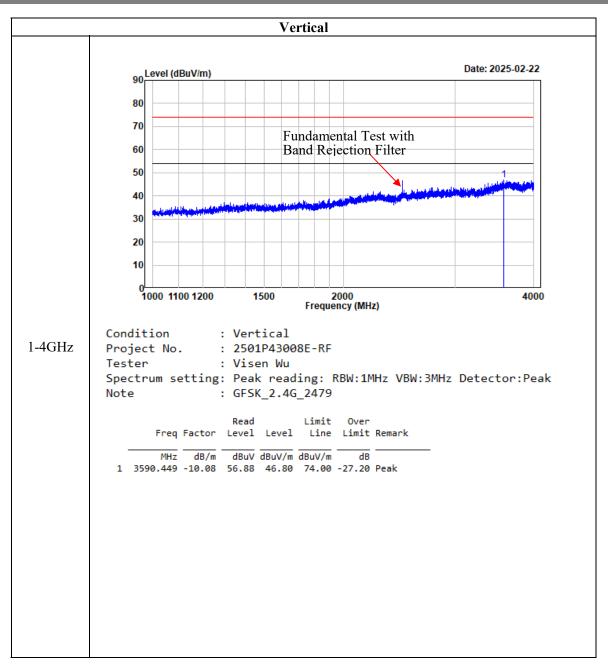




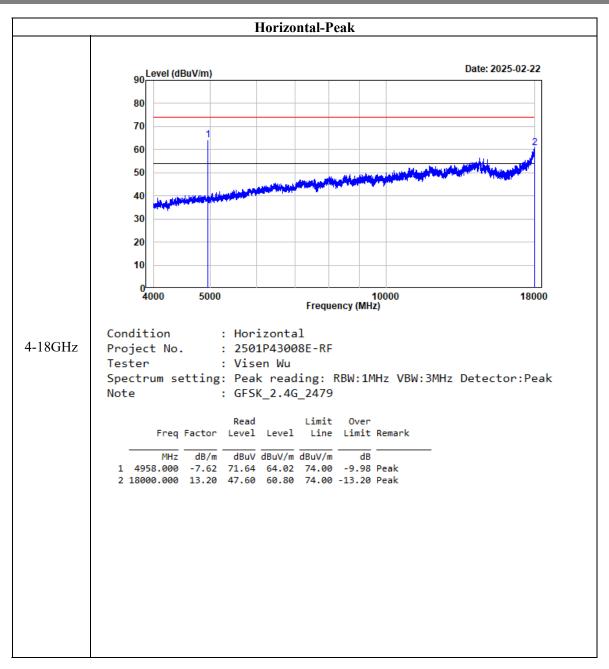


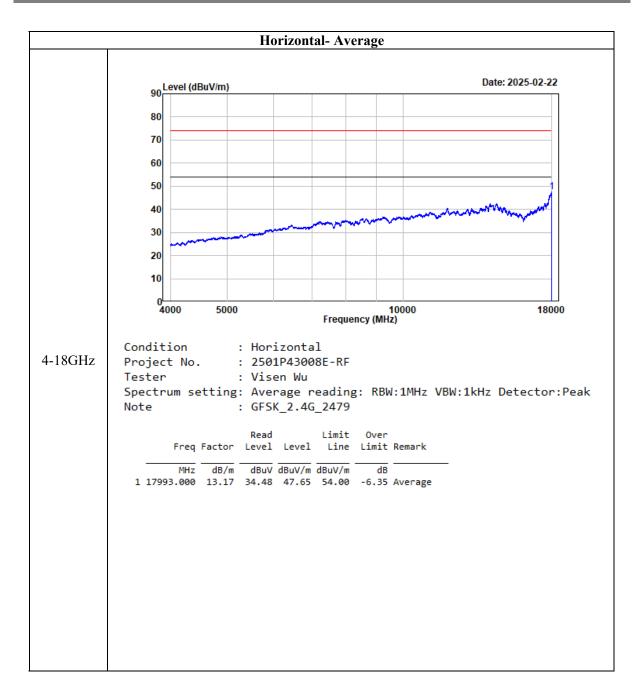
Listed with the worst harmonic margin test plot: (High channel)

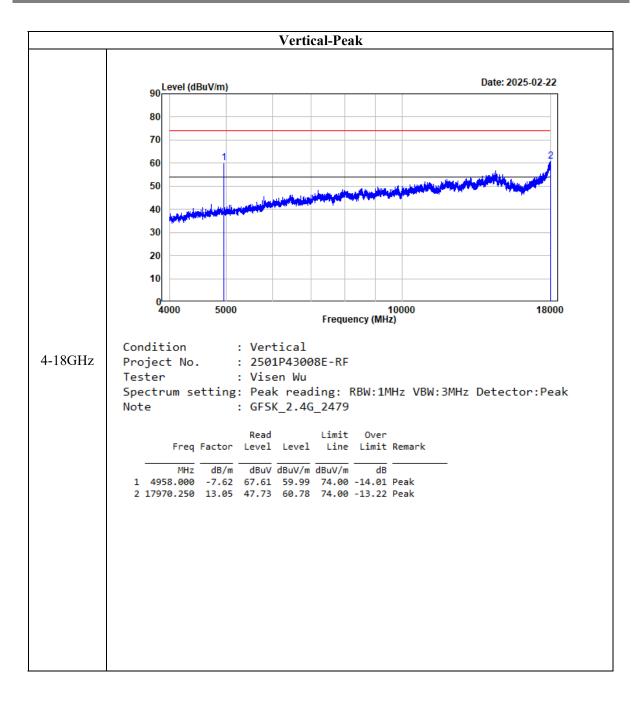
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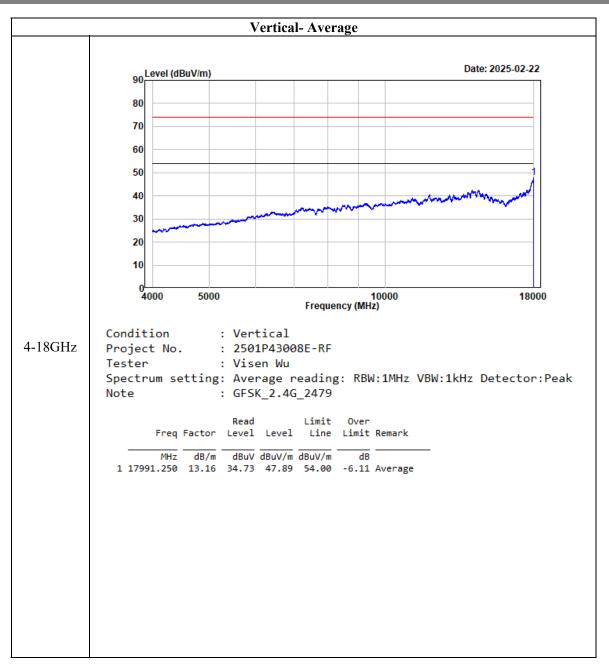
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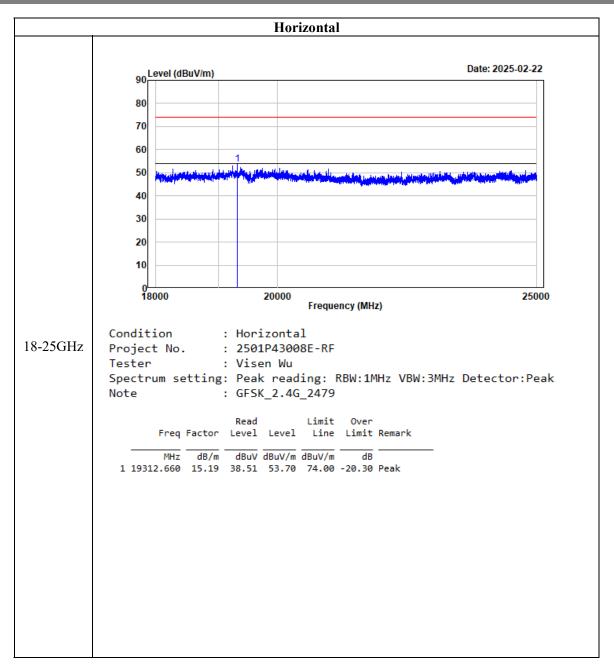




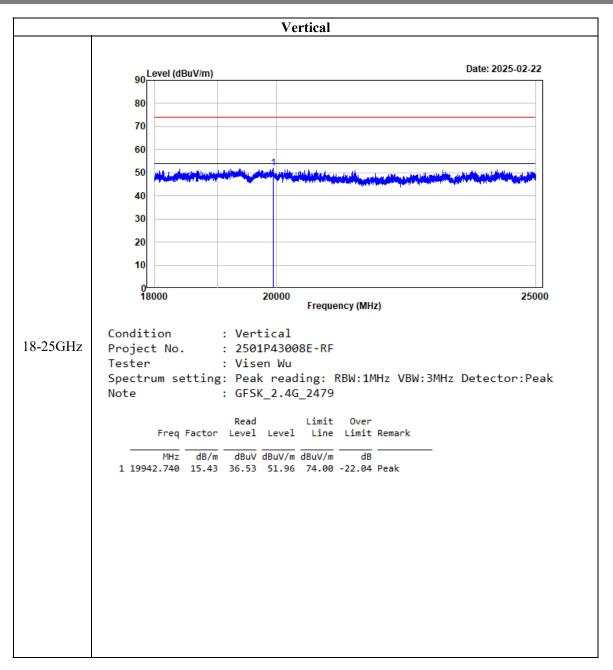
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FCC§15.215(c) - 20dB EMISSION BANDWIDTH

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 C63.10-2020 Clause6.9.2

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.

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

c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2.

d) Steps a) through c) might require iteration to adjust within the specified tolerances.

e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.

f) Set detection mode to peak and trace mode to max-hold.

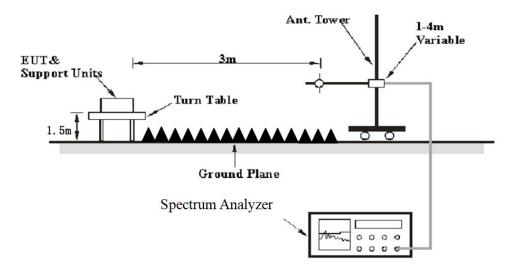
g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.

i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).

j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitude" determined in step h). If a marker is below this "-xx dB down amplitude" value, then it shall be as close as possible to this value. The dBc bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "-xx dB down amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

k) The dBc bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



Test Data

Environmental Conditions

Temperature:	23.6 °C
Relative Humidity:	53 %
ATM Pressure:	102.4 kPa

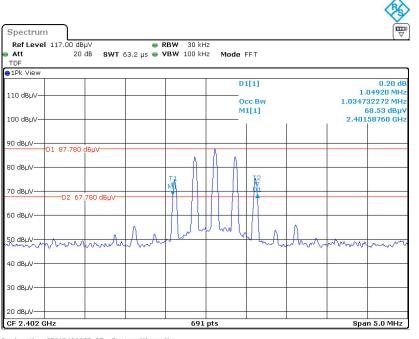
The testing was performed by Visen Wu on 2025-03-06.

EUT operation mode: Transmitting

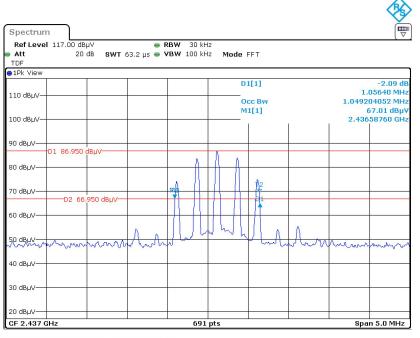
Please refer to the following table and plots.

Channel	Frequency (MHz)	20dB Bandwidth (MHz)
Low	2402	1.049
Middle	2437	1.056
High	2479	1.056





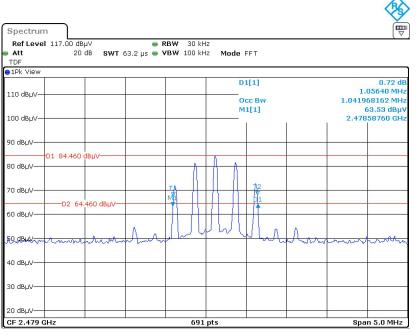
ProjectNo.:2501P43008E-RF Tester:Visen Wu Date: 6.MAR.2025 22:13:22



Middle Channel

ProjectNo.:2501P43008E-RF Tester:Visen Wu Date: 6.MAR.2025 22:19:45





ProjectNo.:2501P43008E-RF Tester:Visen Wu Date: 6.MAR.2025 22:28:43

EUT PHOTOGRAPHS

Please refer to the attachment 2501P43008E-RF External photo and 2501P43008E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501P43008E-RF Test Setup photo.

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