



Japan - TEST REPORT

Report Number : 709502604275-00A Date of Issue: June 05, 2026

Model : 9290046104, 9290042949, 9290042951, 9290046080

Product Type : LED Light strip

Applicant : Signify (China) Investment Co., Ltd.

Address : Building No. 9, Lane 888, Tianlin Road, Minhang 200233
Shanghai PEOPLE'S REPUBLIC OF CHINA

Manufacturer : Signify (China) Investment Co., Ltd.

Address : Building No. 9, Lane 888, Tianlin Road, Minhang 200233
Shanghai PEOPLE'S REPUBLIC OF CHINA

Test Result :  ■ Positive □ Negative

Total pages including Appendices : 47

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1 General Information

1.1 Notes

TÜV SÜD Products Testing (Shanghai) Co., Ltd. – EMC-Lab is a subcontractor to TÜV SÜD Product Service GmbH according to the principles outlined in ISO 17025.

TÜV SÜD Products Testing (Shanghai) Co., Ltd. – EMC-Lab reports apply only to the specific samples tested under stated test conditions. Construction of the actual test samples has been documented. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. The manufacturer/importer is responsible to the Competent Authorities in Europe for any modifications made to the production units which result in non-compliance to the relevant regulations. TÜV SÜD Products Testing (Shanghai) Co., Ltd. – EMC-Lab shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV SÜD Products Testing (Shanghai) Co., Ltd. – EMC-Lab issued reports.

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Prepared by
Project Engineer

2026.06.05
Date

Yong ZHANG
Name



Yong.ZHANG

Signature

Approved by
Project Manager

2026.06.05
Date

Jiaxi XU
Name

Jiaxi XU

Signature



1.2 Testing Laboratory

Address of Test Laboratory:

Company name: TÜV SÜD Products Testing (Shanghai) Co., Ltd.

Company Address: 1F, No.16 Lane, 1951 Du Hui Road,
Shanghai 201108,
P.R. China

Telephone: +86 21 6037 6300

1.3 Details of Applicant

Applicant: Signify (China) Investment Co., Ltd.

Address: Building No. 9, Lane 888, Tianlin Road, Minhang 200233 Shanghai
PEOPLE'S REPUBLIC OF CHINA

Product Description: LED Light strip

Manufacturers Model No.: 9290046104, 9290042949, 9290042951, 9290046080

1.4 Application Details

Date of receipt of order: 04/21/2026

Date of receipt of test item: 05/11/2026

Date of test: 05/20/2026~05/28/2026

1.5 Test Item

Refer to table 1

1.6 Applied Standard

APPLIED PRODUCT STANDARD

Article 2 Paragraph 1 item(19): Ministry of Internal Affairs and Communications Notification Article 88 Appendix 43

1.7 Test Summary

Table 1. Summary of results

Essential parameter	Corresponding technical requirements: Article 88 Appendix 43	Result
Transmitter requirements	RF Output Power	PASS
	RF Output Power Tolerance	PASS
	Frequency Tolerance	PASS
	Occupied Bandwidth	PASS
	Spread Bandwidth	PASS
	Interference prevention function	PASS
	Unwanted (Spurious) Emission Strength	PASS
Receiver requirements	Secondary Emitted Radio Wave Strength*	PASS

NOTE 1: Measurement taken is within the measurement uncertainty of measurement system.

NOTE 2 “*” N/A is an abbreviation for Not Applicable.

Remark: It is compliance to the appropriate section of the Ordinance Article 2 paragraph 1 Item (19).

2 Equipment Specification

2.1 General Description

The EUT is a LED Light strip with 2.4GHz BLE and Zigbee function.

All models of RF box are exactly the same, the differences are the rated power, light strips and AC adapters.

So model 9290046104 was chosen to perform all the tests,

This report is only for 2.4G BLE.

For the 2.4GHz Zigbee test report please refer to 709502604275-00B.

2.2 Technical Data

Description:	LED Light strip
Model:	9290046104, 9290042949, 9290042951, 9290046080
Operation frequency:	2402MHz~2480MHz
Antenna type:	PIFA Antenna
Antenna gain:	1.78 dBi
Rated Input:	24V DC (from external AC Adapter)
Modulation:	GFSK
Date Rate	125Kbps, 500Kbps, 1Mbps, 2Mbps

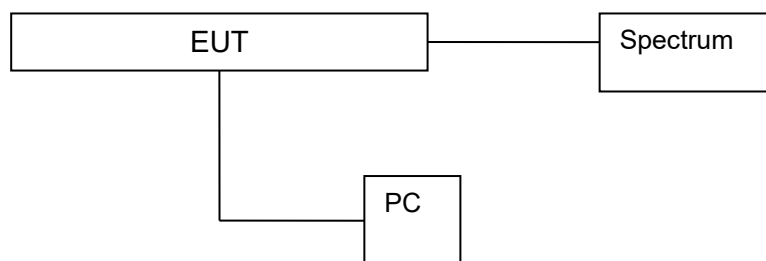
2.3 Test conditions and test Connections

2.3.1 Test Conditions

The EUT will be connected to test system in order to simulate normal operating conditions (with reference to the guidance given in the standard for this type of equipment).

Power supply	The EUT is supplied DC 24V(from external AC Adapter). The fluctuation of input voltage to radio circuit section is under 1% when input voltage from DC 24V to the test equipment is fluctuated by 10%, So, all measurement has been conducted by only rated voltage.			
	DC Input		Input voltage to the circuit of RF unit	
				Deviation
	High Voltage	DC 24V	3.3V	0.00%
	Normal Voltage	DC 24V	3.3V	0.00%
	Low Voltage	DC 24V (declared by client)	3.3V	0.00%
Test Frequencies:	If the EUT can be set to 3 of more different(carrier) frequencies in allocated band, testing shall be performed using the Lowest, Middle and the Highest frequency (L, M and H). If there are 2 or fewer frequencies, testing shall be performed with the available frequencies.			

2.3.2 Test Connections



Test Configuration

2.4 Auxiliary Equipment Used during Test

Table 3. Auxiliary Equipment Used during Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
PC	ThinkPad	T480S	---	---
Hue debug board	Provided by Client	--	---	---
Software in laptop	Provided by Client	Hue Approbation Tool (1.5.9.1)	---	---

2.5 Lists of Test Instruments

Table 4. Lists of Test Instruments

Description	Manufacturer	Model no.	Serial no.	CAL. DATE	CAL. DUE DATE
Signal spectrum analyzer	Agilent	N9020B	MY59050168	2026-2-24	2027-2-23
RF automatic control unit	MWRFTtest	MW100-RFCB	S2110418b -YQ-EMC	2025-10-9	2026-10-8
RF_Cable	UCWAVE ELECTRONIC	UCA500-NJWSM-1.5M	---	2025-8-1	2026-7-31

Remark:

- (a) Calibration conducted by the National institute of Information and Communications Technology (NICT in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).
- (b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).
- (c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- (d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c). the calibration corresponds to C described above.

From JRL Article 24-2, paragraph 4, Item 2

All the test instruments calibration by Jiangsu Electronic Information Product Quality Supervision & Inspection Institute (Jiangsu Information Security Evaluation Center).
Address: No.100, Jinshui Road, Wuxi, Jiangsu, China

2.6 Measurement Uncertainty (95% confidence levels, k=2)

System Measurement Uncertainty	
Test Items	Extended Uncertainty
RF Conducted Measurement	Power related: 1.16dB Frequency related: 6.00×10^{-8}

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3.

3 Measurements Result

3.1 RF Output Power

3.1.1 Test condition

Date of testing:	05/20/2026~05/28/2026
Channel:	2402MHz, 2440MHz, 2480MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

3.1.2 Limit

- The antenna power of a transmitting equipment (with a frequency band of 2,427 – 2,470.75 MHz, for spread spectrum systems using FH systems, hybrid systems of DS and FH, or hybrid systems of FH and OFDM) shall be such that the mean power within a bandwidth of 1 MHz is 3 mW or less in the case of modulation using a standard coding test signal with the same transmission rate as that of the modulation signal.
- The antenna power of a transmitting equipment using a spread spectrum system other than any of those in “a” and the OFDM system shall be such that the mean power within a bandwidth of 1 MHz is 10 mW or less in the case of modulation using a standard coding test signal with the same transmission rate as that of the modulation signal.

3.1.3 Test result

Date Rate	Frequency (MHz)	Voltage (VDC)	Reading (mW)	Limit (mW)
125Kbps	2402	24V DC	5.74	10
	2440	24V DC	5.59	10
	2480	24V DC	6.2	10
500Kbps	2402	24V DC	5.72	10
	2440	24V DC	5.58	10
	2480	24V DC	6.2	10
1MBps	2402	24V DC	6.25	10
	2440	24V DC	6.11	10
	2480	24V DC	6.65	10
2MBps	2402	24V DC	6.3	10
	2440	24V DC	5.61	10
	2480	24V DC	6.18	10

3.1.4 Result

The equipment met the requirement of this clause.

3.2 Tolerances for Antenna Power

3.2.1 Test condition

Date of testing:	05/20/2026~05/28/2026
Channel:	2402MHz, 2440MHz, 2480MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

3.2.2 Limit

Upper and lower limits of the tolerance for antenna power shall be 20%, respectively. Note that they represent the tolerance for the maximum rated antenna power and that no upper and lower limits of the tolerance are regulated in the case of antenna power reduction for communications reasons.

3.2.3 Test result

Date Rate	Frequency (MHz)	Voltage (VDC)	Declared Output Power (mW)	Result (mW)	Tolerances (%)	Limit
125Kbps	2402	24V DC	6	5.74	-4.33	+20%
	2440	24V DC	6	5.59	-6.83	+20%
	2480	24V DC	6	6.2	3.33	+20%
500Kbps	2402	24V DC	6	5.72	-4.67	+20%
	2440	24V DC	6	5.58	-7	+20%
	2480	24V DC	6	6.2	3.33	+20%
1Mbps	2402	24V DC	6	6.25	4.17	+20%
	2440	24V DC	6	6.11	1.83	+20%
	2480	24V DC	6	6.65	10.83	+20%
2Mbps	2402	24V DC	6	6.3	5	+20%
	2440	24V DC	6	5.61	-6.5	+20%
	2480	24V DC	6	6.18	3	+20%
Conclusion: PASS						

Note: Deviation = (Output power – Declared Output Power) / Declared Output Power * 100%

3.2.4 Result

The equipment met the requirement of this clause.

3.3 Frequency Tolerance

3.3.1 Test condition

Date of testing:	05/20/2026~05/28/2026
Channel:	2402MHz, 2440MHz, 2480MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

3.3.2 Limit (ARIB STD-T66, Clause 3.2 (4))

Tolerance of frequency: $\pm 50 \times 10^{-6}$.

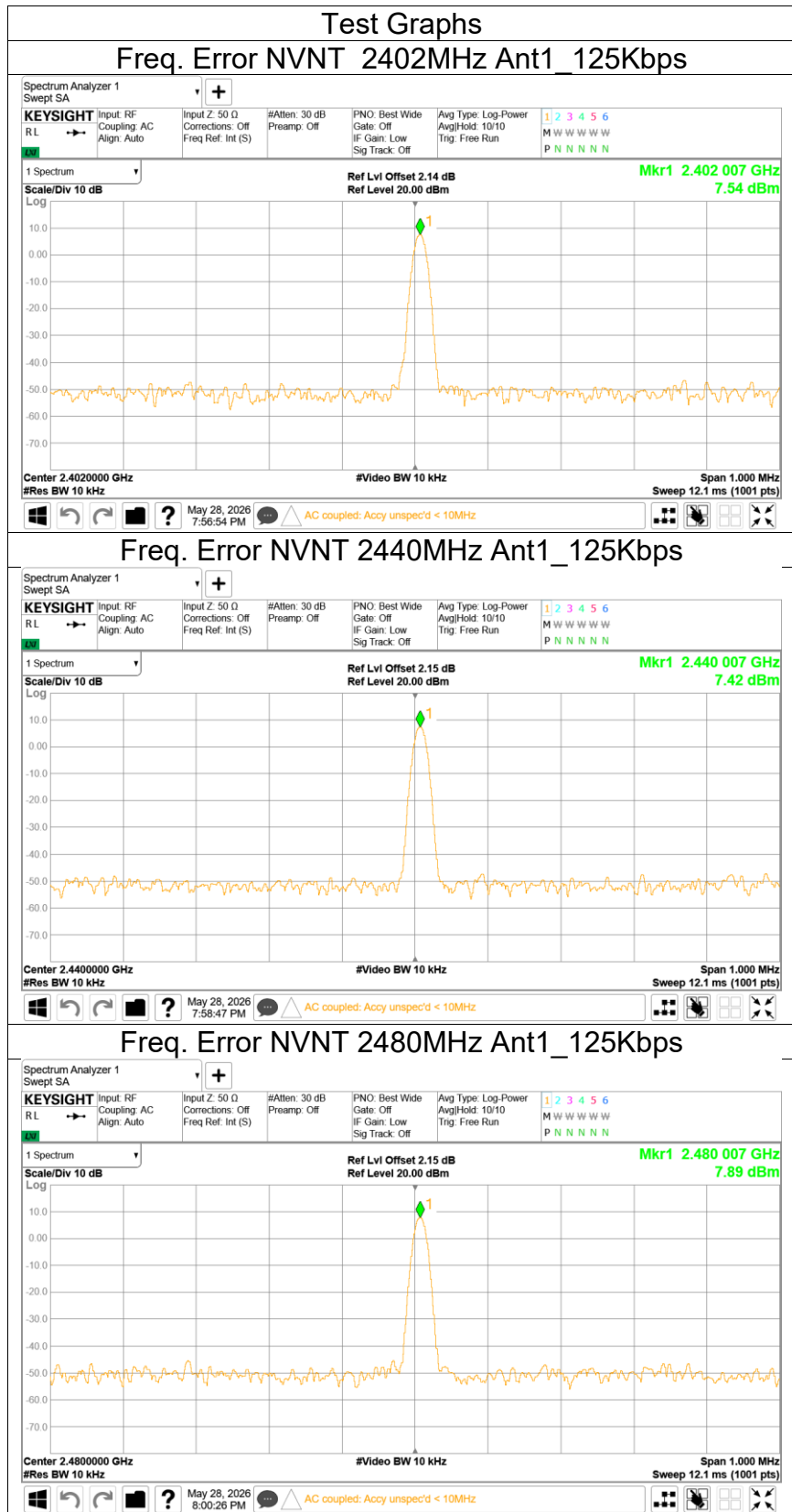
3.3.3 Test Result

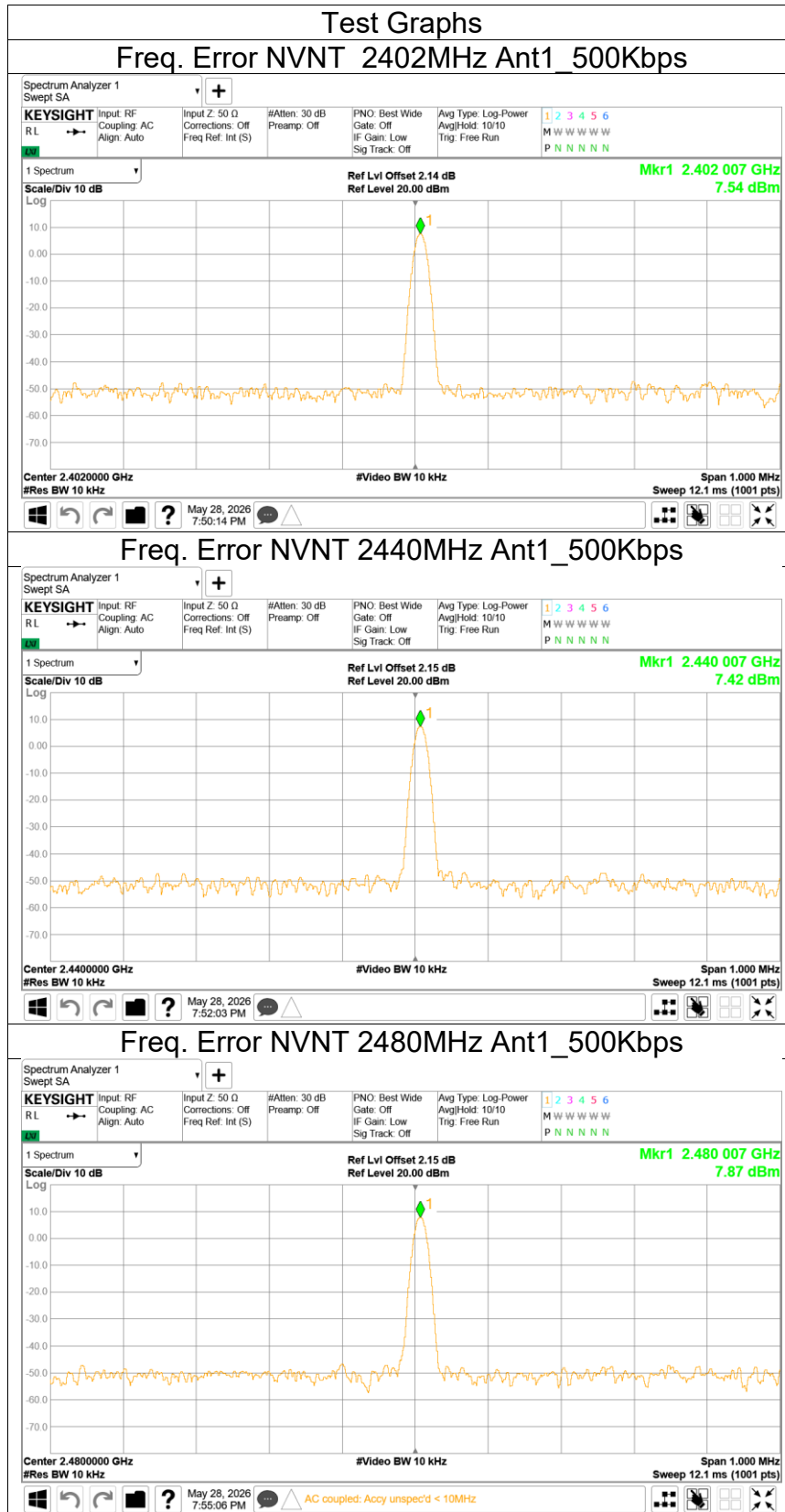
Date Rate	Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Tolerance (Hz)	Tolerance (ppm)	Limit (ppm)
125Kbps	2402	24V DC	2402.007	7000	2.91	± 50
	2440	24V DC	2440.007	7000	2.87	± 50
	2480	24V DC	2480.007	7000	2.82	± 50
500Kbps	2402	24V DC	2402.007	7000	2.91	± 50
	2440	24V DC	2440.007	7000	2.87	± 50
	2480	24V DC	2480.007	7000	2.82	± 50
1Mbps	2402	24V DC	2402.002	2000	0.83	± 50
	2440	24V DC	2440.001	1000	0.41	± 50
	2480	24V DC	2480.001	1000	0.4	± 50
2Mbps	2402	24V DC	2402.001	1000	0.42	± 50
	2440	24V DC	2440.009	9000	3.69	± 50
	2480	24V DC	2480.009	9000	3.63	± 50
Conclusion: PASS						

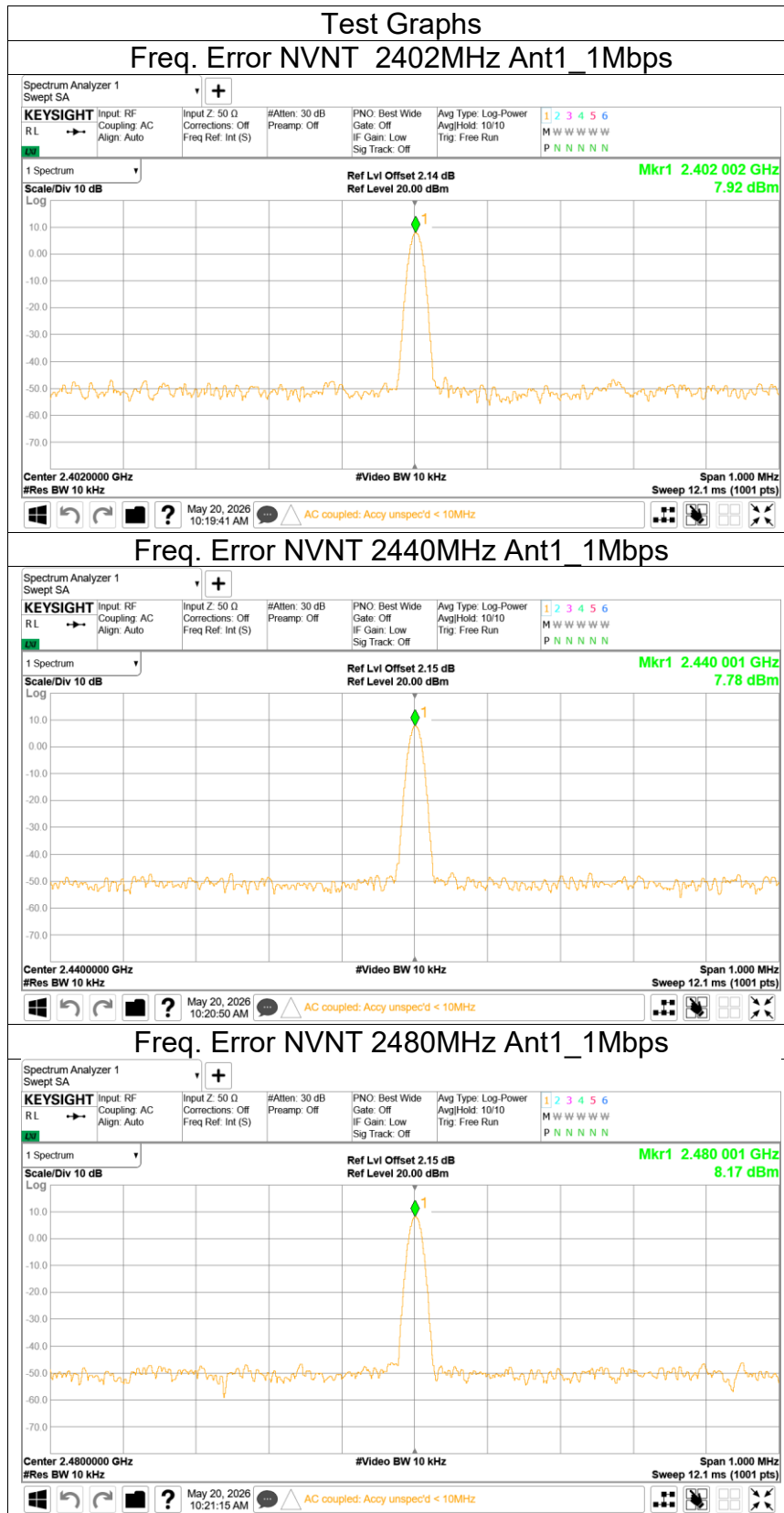
3.3.4 Result

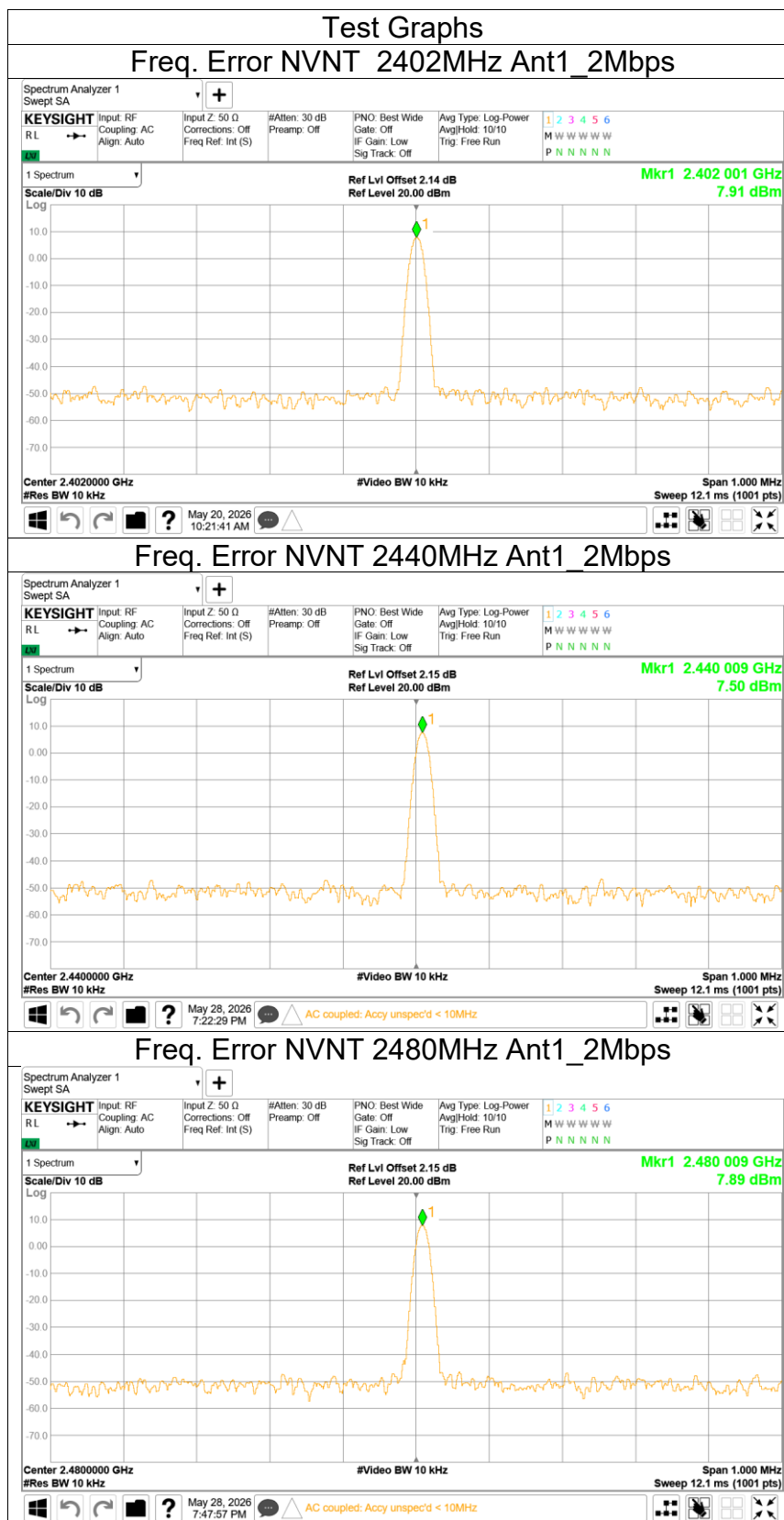
The equipment met the requirement of this clause.

3.3.5 Test Graph









3.4 Occupied Frequency Bandwidth

3.4.1 Test condition

Date of testing:	05/20/2026~05/28/2026
Channel:	2402MHz, 2440MHz, 2480MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

3.4.2 Limit

Permissible value for occupied bandwidth using the FH system, a hybrid system combining DS and FH systems, or a hybrid system combining FH and OFDM systems shall be 83.5 MHz or less, while necessary bandwidth (minimum occupied bandwidth sufficient to ensure information transmission of required quality at a required transmission rate for the system used under specified conditions for a given emission type) using a OFDM system is at most 40MHz; and for transmission devices using any other necessary frequency bandwidth is at most 26 MHz or less.

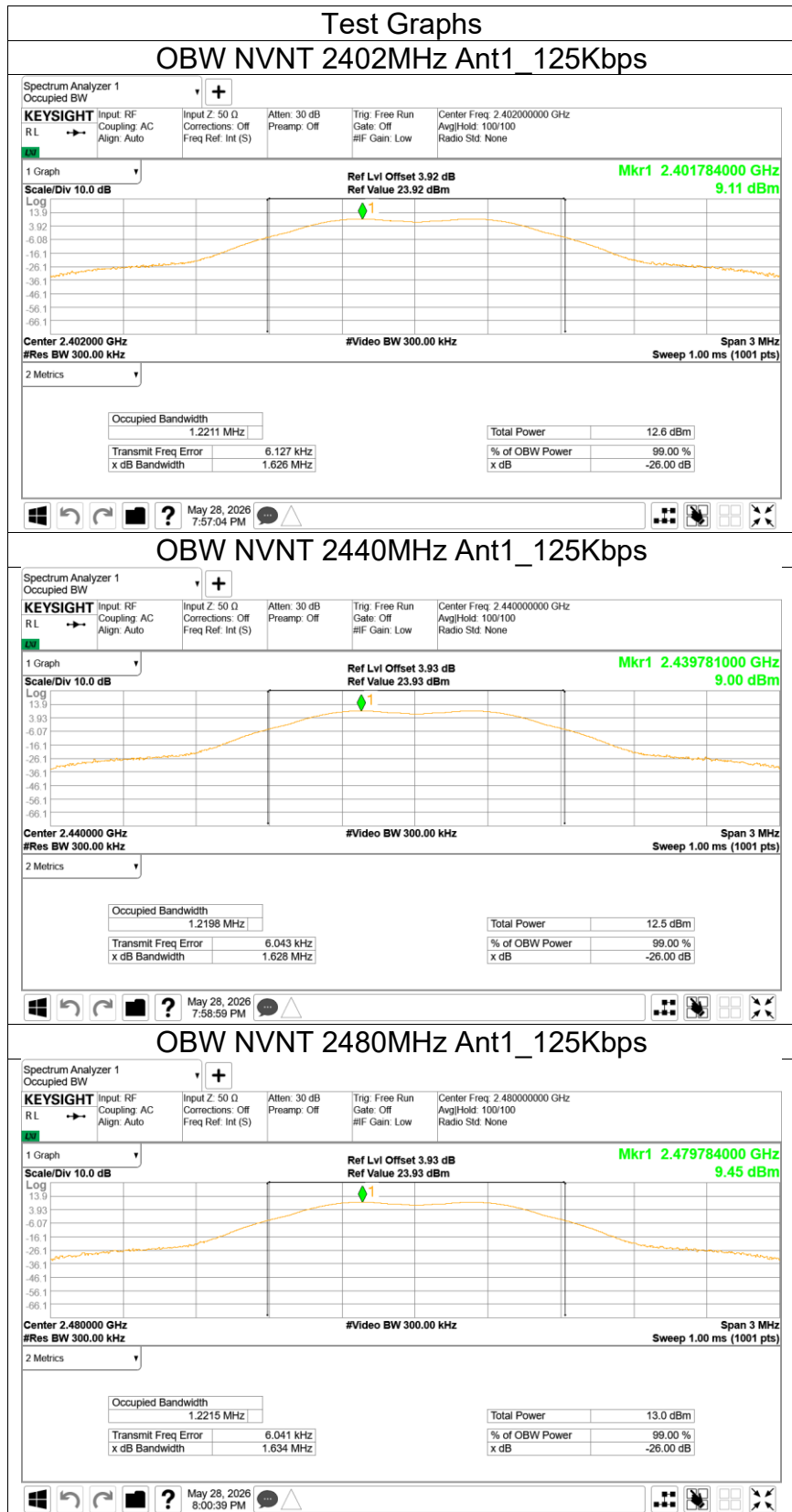
3.4.3 Test Result

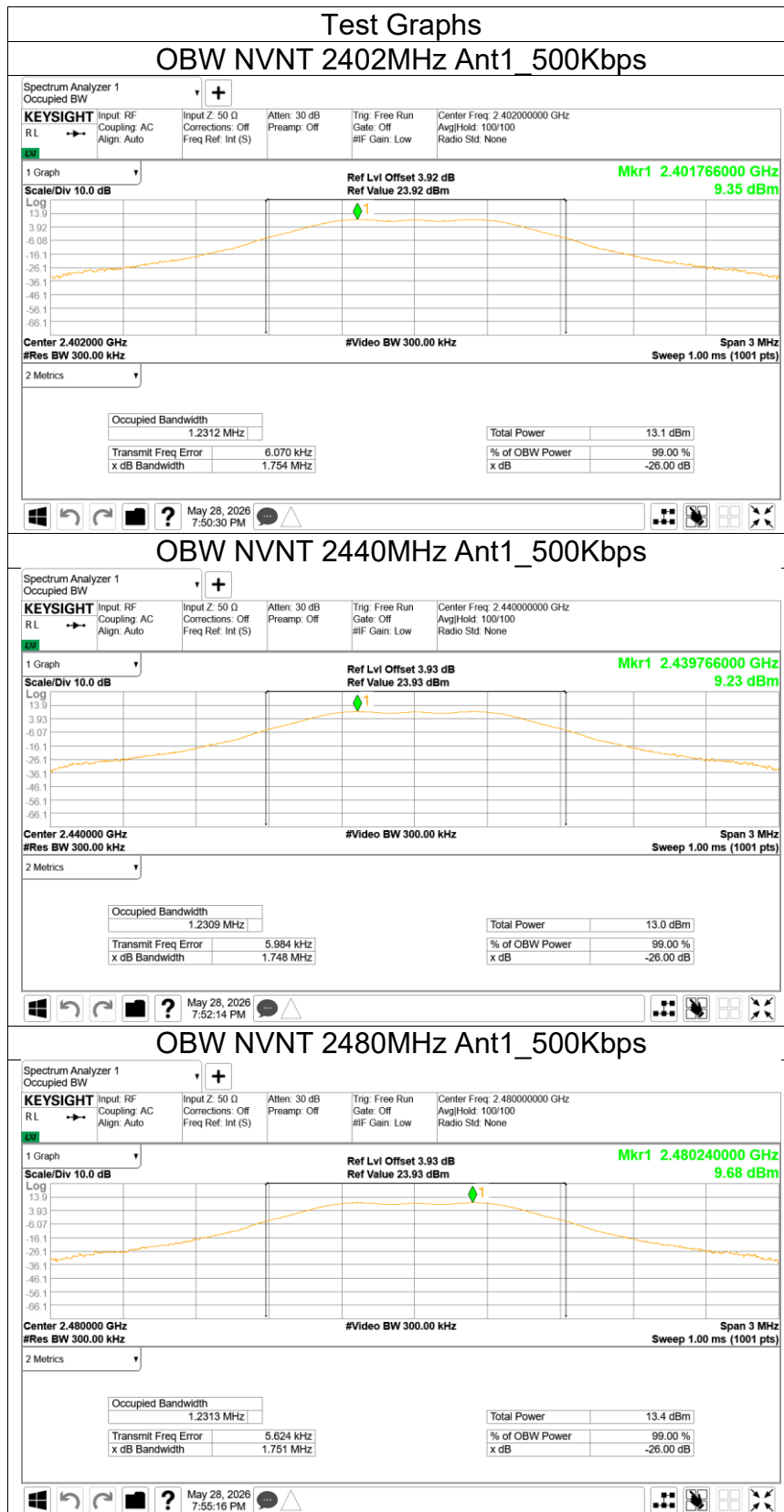
Date Rate	Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (MHz)
125Kbps	2402	24V DC	1.221	<26MHz
	2440	24V DC	1.22	<26MHz
	2480	24V DC	1.221	<26MHz
500Kbps	2402	24V DC	1.231	<26MHz
	2440	24V DC	1.231	<26MHz
	2480	24V DC	1.231	<26MHz
1Mbps	2402	24V DC	1.235	<26MHz
	2440	24V DC	1.235	<26MHz
	2480	24V DC	1.236	<26MHz
2Mbps	2402	24V DC	2.15	<26MHz
	2440	24V DC	2.158	<26MHz
	2480	24V DC	2.155	<26MHz

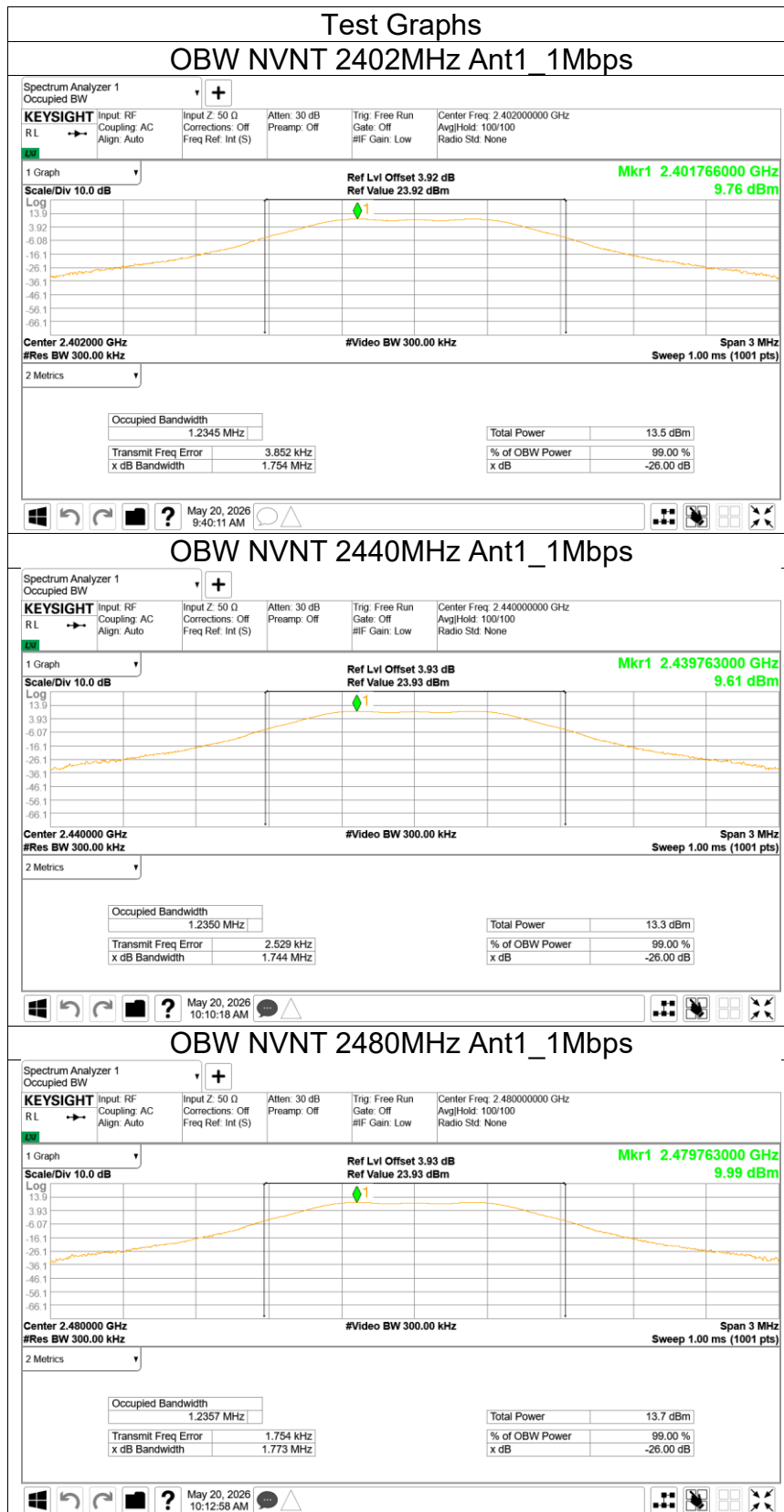
3.4.4 Result

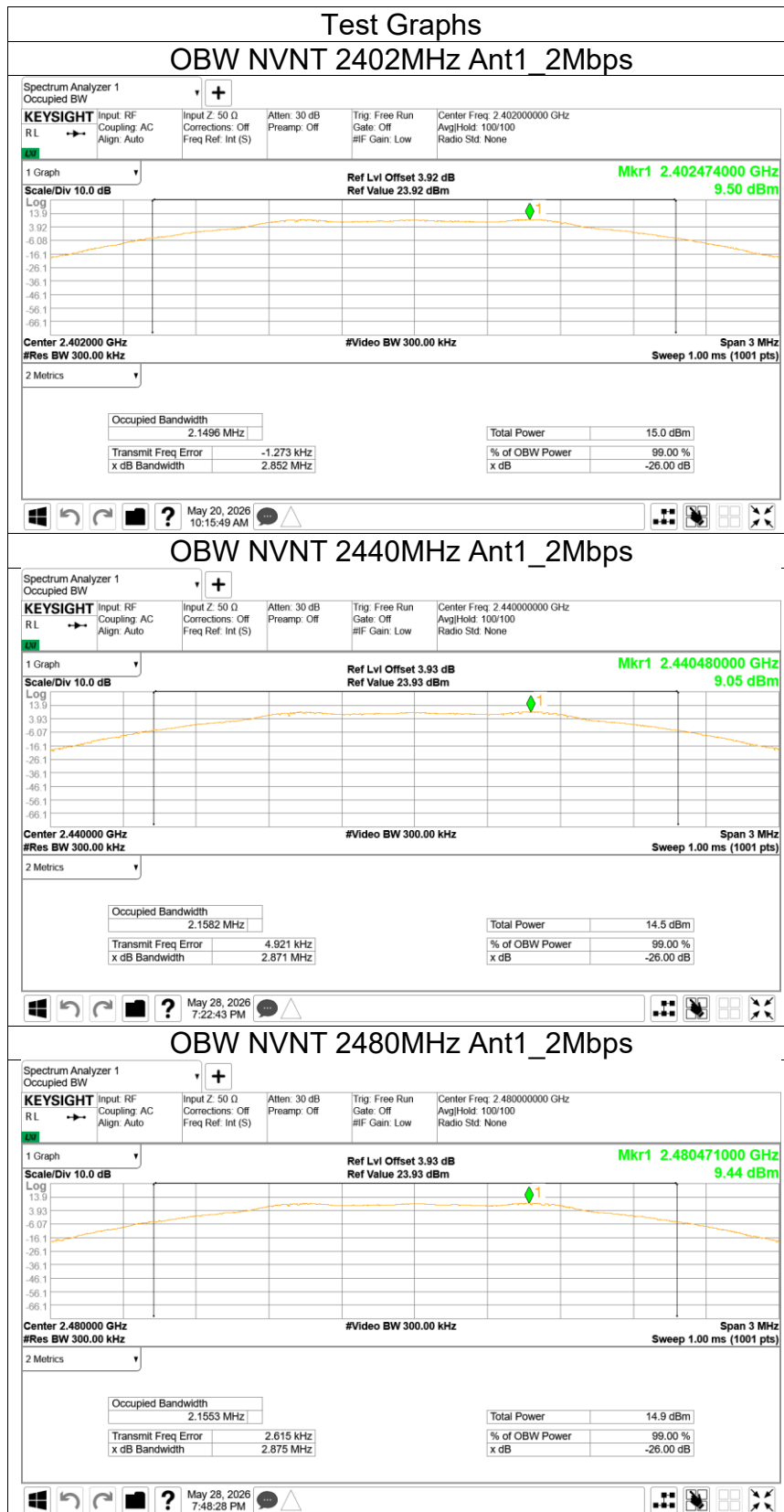
The equipment met the requirement of this clause.

3.4.5 Test Graph









3.5 Spread Bandwidth

3.5.1 Test condition

Date of testing:	05/20/2026~05/28/2026
Channel:	2402MHz, 2440MHz, 2480MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

3.5.2 Limit

In spread spectrum systems, spread bandwidth (which refers to a frequency bandwidth with an upper limit and lower limit such that each of the mean powers radiated above the upper frequency limit and below the lower frequency limit is equal to 5 % of the total mean power radiated; this also applies hereafter) shall be 500 kHz or more

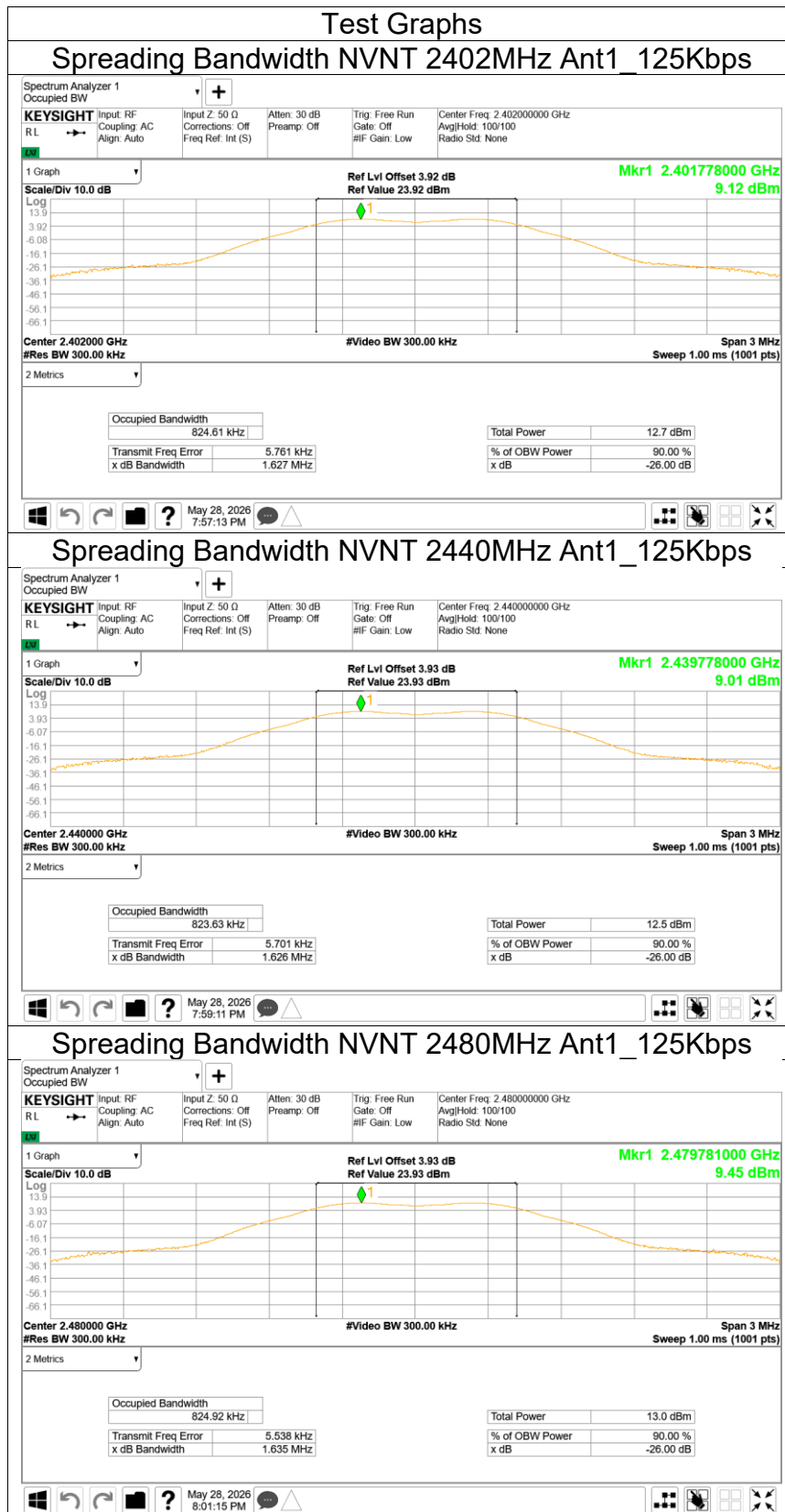
3.5.3 Test Result

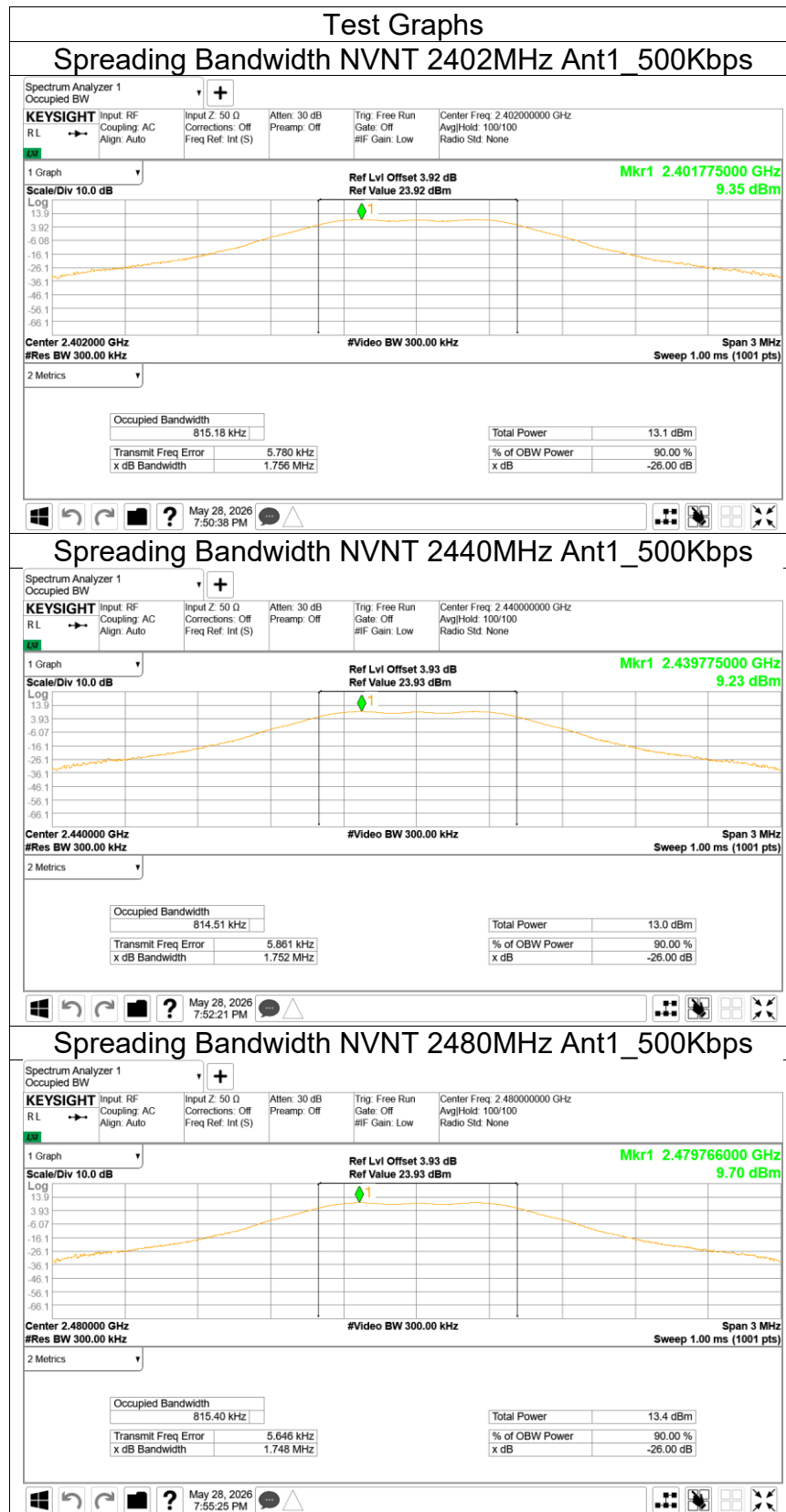
Date Rate	Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (KHz)
125Kbps	2402	24V DC	0.825	>500
	2440	24V DC	0.824	>500
	2480	24V DC	0.825	>500
500Kbps	2402	24V DC	0.815	>500
	2440	24V DC	0.815	>500
	2480	24V DC	0.815	>500
1Mbps	2402	24V DC	0.818	>500
	2440	24V DC	0.817	>500
	2480	24V DC	0.818	>500
2Mbps	2402	24V DC	1.383	>500
	2440	24V DC	1.386	>500
	2480	24V DC	1.385	>500

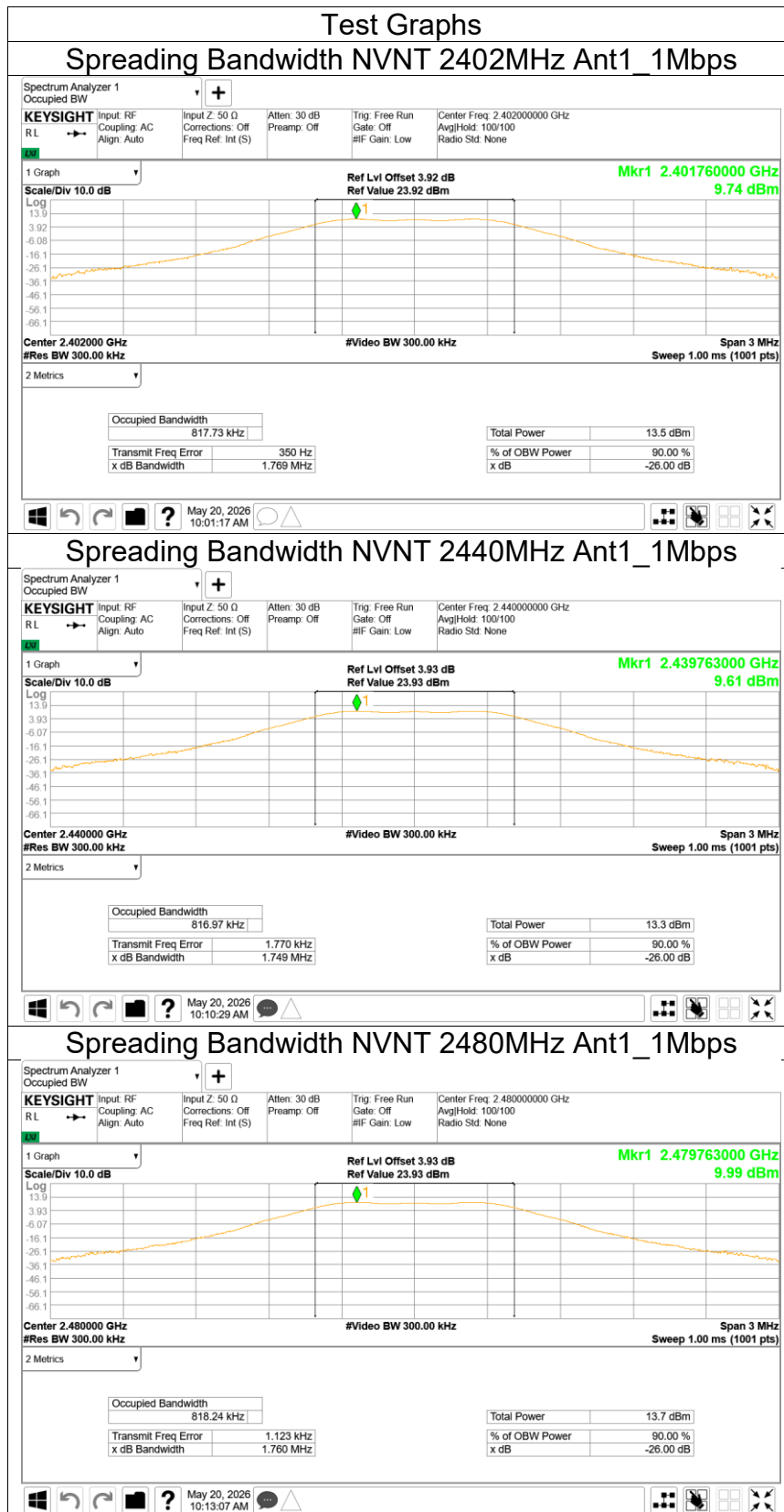
3.5.4 Result

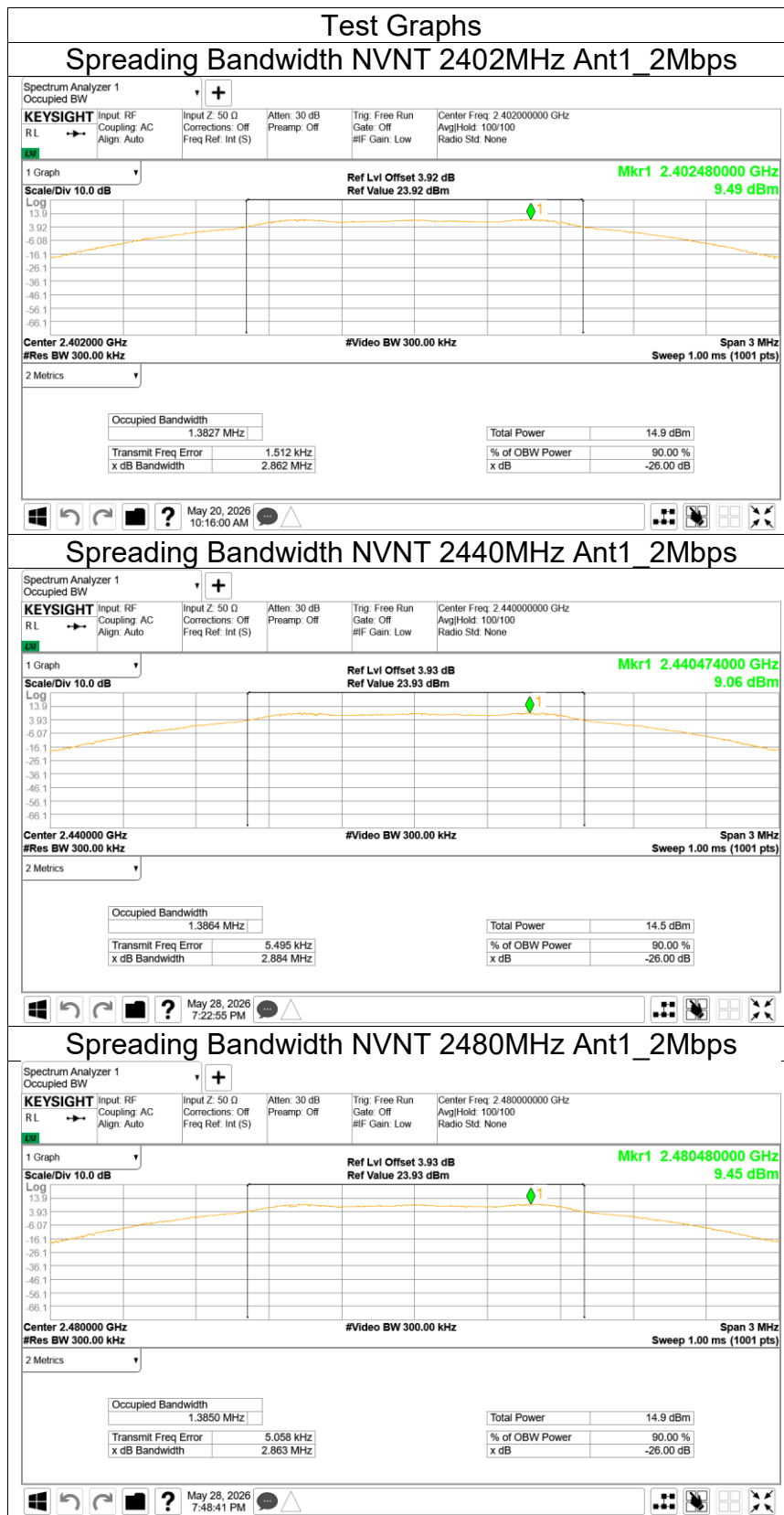
The equipment met the requirement of this clause

3.5.5 Test Graph









3.6 Unwanted (Spurious) Emission Strength

3.6.1 Test condition

Date of testing:	05/20/2026~05/28/2026
Channel:	2402MHz, 2440MHz, 2480MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

3.6.2 Limit

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows: a. $2,387\text{MHz} \leq f \leq 2,400\text{MHz}$ and $2,483.5\text{MHz} < f \leq 2,496.5\text{MHz}$ 25 μW or less b. $2,387\text{MHz} > f$ and $2,496.5\text{MHz} < f$ 2.5 μW or less

3.6.3 Test Result

Condition	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/MHz)	Limit (dBm/MHz)	Result [$\mu\text{W}/\text{MHz}$]	Limit [$\mu\text{W}/\text{MHz}$]	Verdict
NVNT	2402 (125Kbps)	30-1000	856.44	-44.9	-26	0.032359	≤ 2.5	Pass
NVNT		1000-2387	2221.95	-44.96	-26	0.031915	≤ 2.5	Pass
NVNT		2387-2400	2400	-27.76	-16	1.674943	≤ 25	Pass
NVNT		2483.5-2496.5	2486.5	-45.51	-16	0.028119	≤ 25	Pass
NVNT		2496.5-13000	7202.07	-42.35	-26	0.058210	≤ 2.5	Pass
NVNT	2440 (125Kbps)	30-1000	772.05	-45.65	-26	0.027227	≤ 2.5	Pass
NVNT		1000-2387	2306.55	-45.39	-26	0.028907	≤ 2.5	Pass
NVNT		2387-2400	2388.52	-45.46	-16	0.028445	≤ 25	Pass
NVNT		2483.5-2496.5	2489.42	-45.32	-16	0.029376	≤ 25	Pass
NVNT		2496.5-13000	6162.22	-43.03	-26	0.049774	≤ 2.5	Pass
NVNT	2480 (125Kbps)	30-1000	924.34	-45.47	-26	0.028379	≤ 2.5	Pass
NVNT		1000-2387	2241.36	-45.07	-26	0.031117	≤ 2.5	Pass
NVNT		2387-2400	2393.41	-45.69	-16	0.026977	≤ 25	Pass
NVNT		2483.5-2496.5	2483.5	-39.60	-16	0.109648	≤ 25	Pass
NVNT		2496.5-13000	7443.65	-42.30	-26	0.058884	≤ 2.5	Pass
Condition	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/MHz)	Limit (dBm/MHz)	Result [$\mu\text{W}/\text{MHz}$]	Limit [$\mu\text{W}/\text{MHz}$]	Verdict
NVNT	2402 (500Kbps)	30-1000	970.9	-45.33	-26	0.029309	≤ 2.5	Pass
NVNT		1000-2387	2255.23	-45.04	-26	0.031333	≤ 2.5	Pass
NVNT		2387-2400	2400	-26.82	-16	2.079697	≤ 25	Pass
NVNT		2483.5-2496.5	2486.33	-46.00	-16	0.025119	≤ 25	Pass
NVNT		2496.5-13000	7202.07	-41.2	-26	0.075858	≤ 2.5	Pass
NVNT	2440 (500Kbps)	30-1000	935.01	-45.31	-26	0.029444	≤ 2.5	Pass
NVNT		1000-2387	2198.37	-45.77	-26	0.026485	≤ 2.5	Pass
NVNT		2387-2400	2398.09	-46.06	-16	0.024774	≤ 25	Pass
NVNT		2483.5-2496.5	2489.49	-45.39	-16	0.028907	≤ 25	Pass
NVNT		2496.5-13000	7317.61	-42.11	-26	0.061518	≤ 2.5	Pass
NVNT	2480 (500Kbps)	30-1000	890.39	-44.71	-26	0.033806	≤ 2.5	Pass
NVNT		1000-2387	2252.46	-44.98	-26	0.031769	≤ 2.5	Pass
NVNT		2387-2400	2395.48	-45.13	-16	0.030690	≤ 25	Pass
NVNT		2483.5-2496.5	2483.62	-38.67	-16	0.135831	≤ 25	Pass
NVNT		2496.5-13000	12684.89	-42.96	-26	0.050582	≤ 2.5	Pass



Condition	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/MHz)	Limit (dBm/MHz)	Result [μ W/MHz]	Limit [μ W/MHz]	Verdict
NVNT	2402 (1Mbps)	30-1000	806.97	-45.08	-26	0.031046	≤ 2.5	Pass
NVNT		1000-2387	2185.88	-44.99	-26	0.031696	≤ 2.5	Pass
NVNT		2387-2400	2400	-26.71	-16	2.133045	≤ 25	Pass
NVNT		2483.5-2496.5	2493.55	-46.11	-16	0.024491	≤ 25	Pass
NVNT		2496.5-13000	7202.07	-41.79	-26	0.066222	≤ 2.5	Pass
NVNT	2440 (1Mbps)	30-1000	994.18	-44.69	-26	0.033963	≤ 2.5	Pass
NVNT		1000-2387	2274.65	-45.2	-26	0.030200	≤ 2.5	Pass
NVNT		2387-2400	2396.09	-45.99	-16	0.025177	≤ 25	Pass
NVNT		2483.5-2496.5	2493.89	-45.08	-16	0.031046	≤ 25	Pass
NVNT		2496.5-13000	7317.61	-41.12	-26	0.077268	≤ 2.5	Pass
NVNT	2480 (1Mbps)	30-1000	758.47	-45.04	-26	0.031333	≤ 2.5	Pass
NVNT		1000-2387	2159.53	-45.14	-26	0.030620	≤ 2.5	Pass
NVNT		2387-2400	2398.45	-45.79	-16	0.026363	≤ 25	Pass
NVNT		2483.5-2496.5	2483.59	-39.25	-16	0.118850	≤ 25	Pass
NVNT		2496.5-13000	7443.65	-42.01	-26	0.062951	≤ 2.5	Pass
Condition	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm/MHz)	Limit (dBm/MHz)	Result [μ W/MHz]	Limit [μ W/MHz]	Verdict
NVNT	2402 (2 Mbps)	30-1000	474.26	-45.08	-26	0.031046	≤ 2.5	Pass
NVNT		1000-2387	2363.42	-44.99	-26	0.031696	≤ 2.5	Pass
NVNT		2387-2400	2400	-16.84	-16	20.70141	≤ 25	Pass
NVNT		2483.5-2496.5	2486.5	-45.03	-16	0.031405	≤ 25	Pass
NVNT		2496.5-13000	7212.57	-42.2	-26	0.060256	≤ 2.5	Pass
NVNT	2440 (2 Mbps)	30-1000	883.6	-45.45	-26	0.028510	≤ 2.5	Pass
NVNT		1000-2387	2159.53	-44.96	-26	0.031915	≤ 2.5	Pass
NVNT		2387-2400	2398.88	-44.44	-16	0.035975	≤ 25	Pass
NVNT		2483.5-2496.5	2494.03	-44.9	-16	0.032359	≤ 25	Pass
NVNT		2496.5-13000	7317.61	-42.88	-26	0.051523	≤ 2.5	Pass
NVNT	2480 (2 Mbps)	30-1000	960.23	-45.54	-26	0.027925	≤ 2.5	Pass
NVNT		1000-2387	2167.85	-44.83	-26	0.032885	≤ 2.5	Pass
NVNT		2387-2400	2399.64	-45.66	-16	0.027164	≤ 25	Pass
NVNT		2483.5-2496.5	2483.6	-35.94	-16	0.254683	≤ 25	Pass
NVNT		2496.5-13000	12380.29	-42.9	-26	0.051286	≤ 2.5	Pass

The equipment met the requirement of this clause.

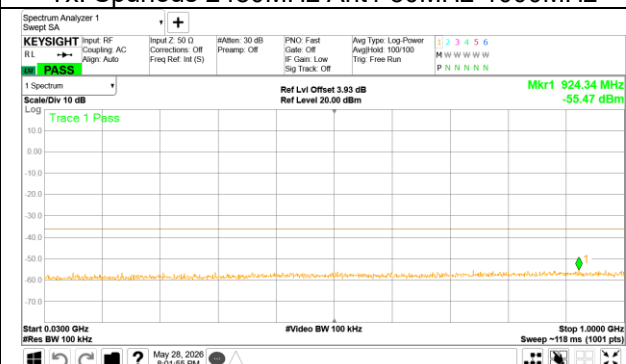


NVNT Test Graphs 125Kbps

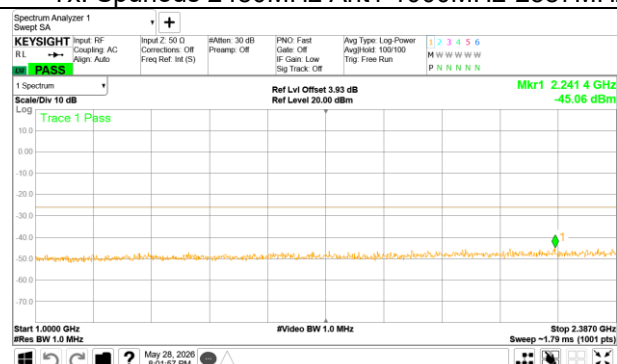


NVNT Test Graphs_125Kbps

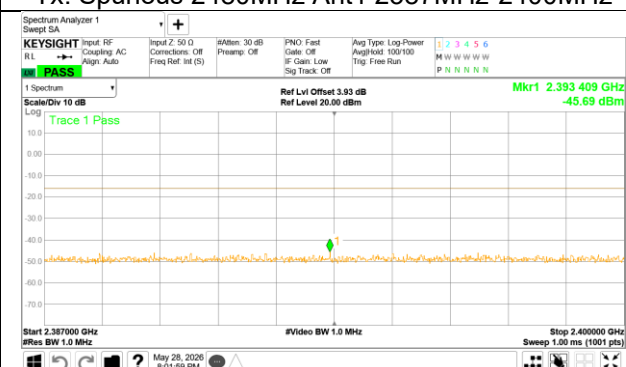
Tx. Spurious 2480MHz Ant1 30MHz-1000MHz



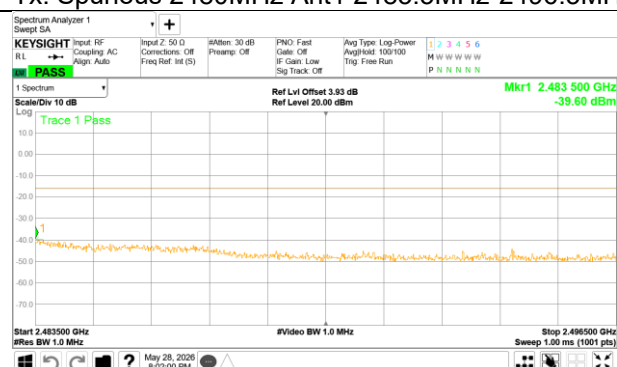
Tx. Spurious 2480MHz Ant1 1000MHz-2387MHz



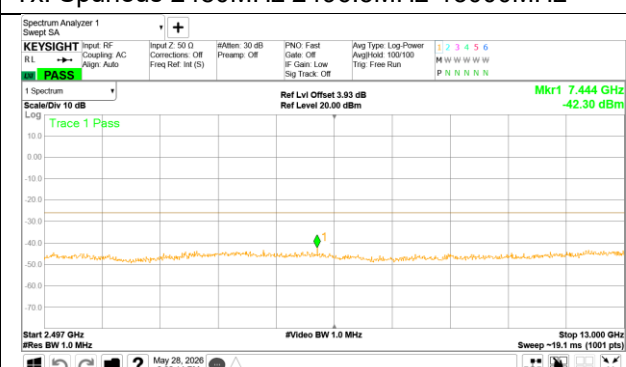
Tx. Spurious 2480MHz Ant1 2387MHz-2400MHz



Tx. Spurious 2480MHz Ant1 2483.5MHz-2496.5MHz

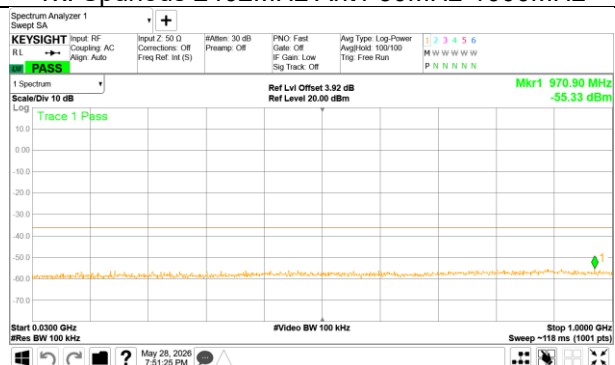


Tx. Spurious 2480MHz 2496.5MHz-13000MHz

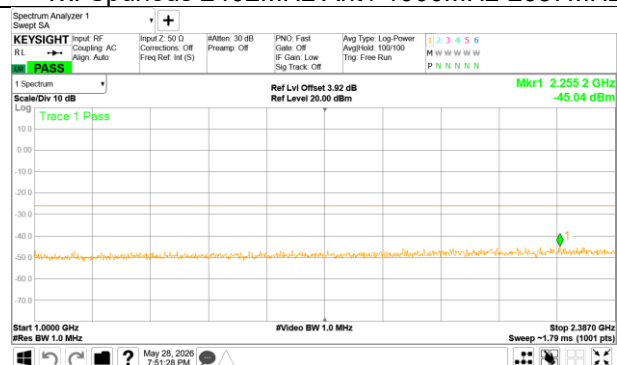


NVNT Test Graphs 500Kbps

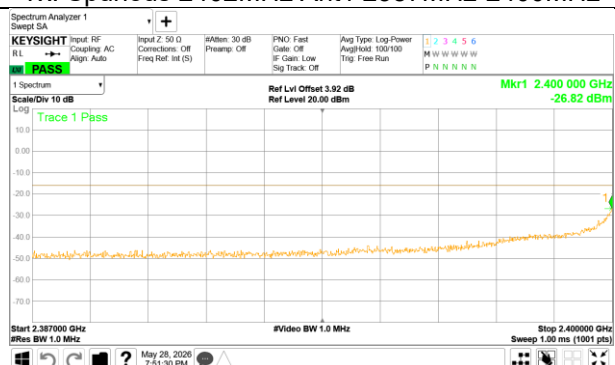
Tx. Spurious 2402MHz Ant1 30MHz-1000MHz



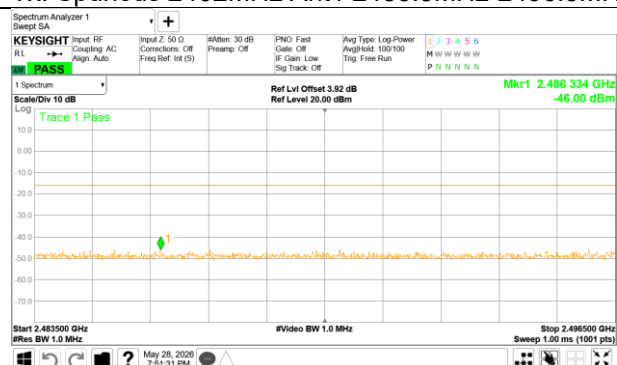
Tx. Spurious 2402MHz Ant1 1000MHz-2387MHz



Tx. Spurious 2402MHz Ant1 2387MHz-2400MHz



Tx. Spurious 2402MHz Ant1 2483.5MHz-2496.5MHz



Tx. Spurious 2402MHz 2496.5MHz-13000MHz



NVNT Test Graphs 500Kbps

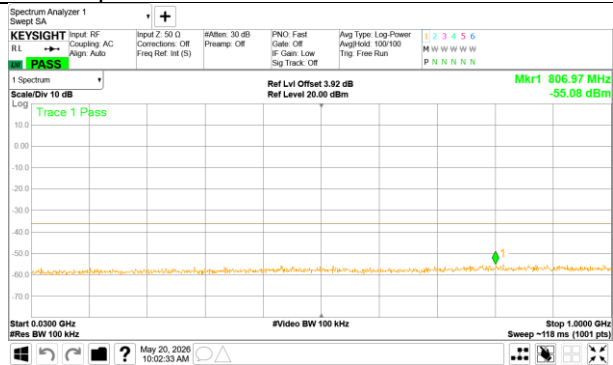


NVNT Test Graphs 500Kbps

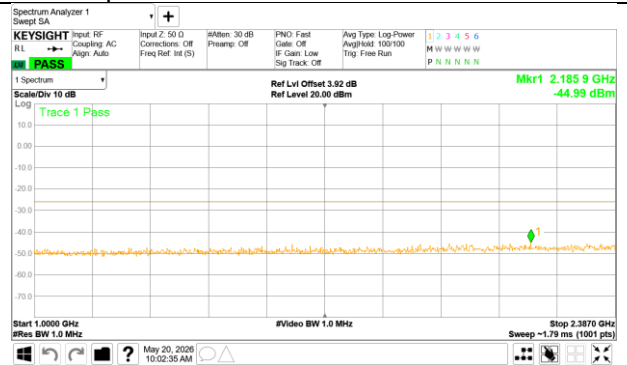


NVNT Test Graphs 1Mbps

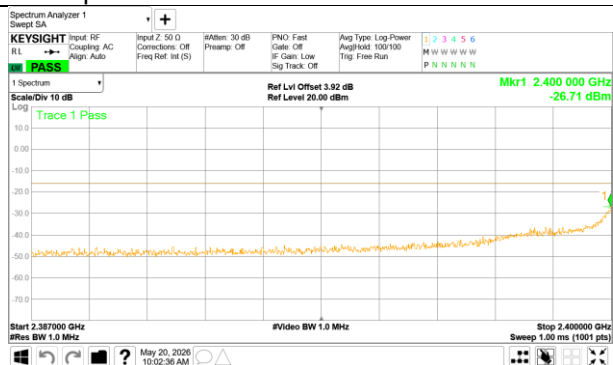
Tx. Spurious 2402MHz Ant1 30MHz-1000MHz



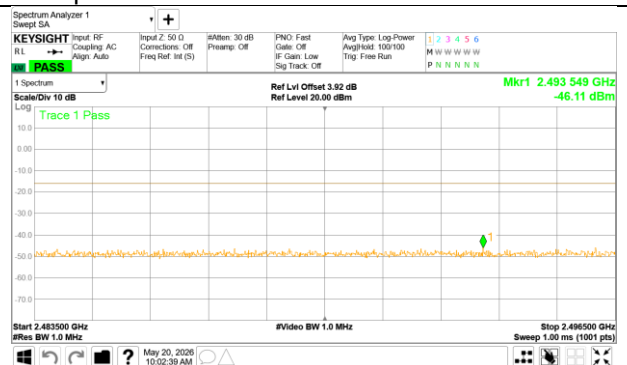
Tx. Spurious 2402MHz Ant1 1000MHz-2387MHz



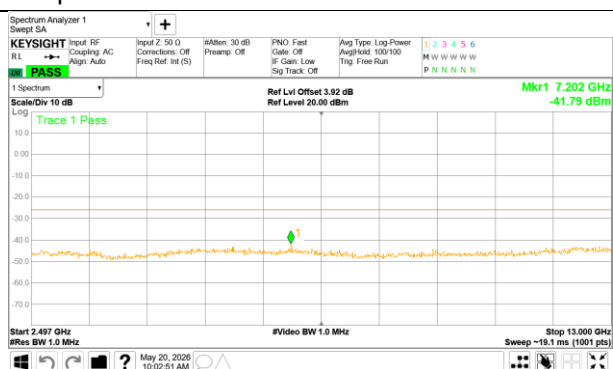
Tx. Spurious 2402MHz Ant1 2387MHz-2400MHz



Tx. Spurious 2402MHz Ant1 2483.5MHz-2496.5MHz



Tx. Spurious 2402MHz 2496.5MHz-13000MHz



NVNT Test Graphs 1Mbps

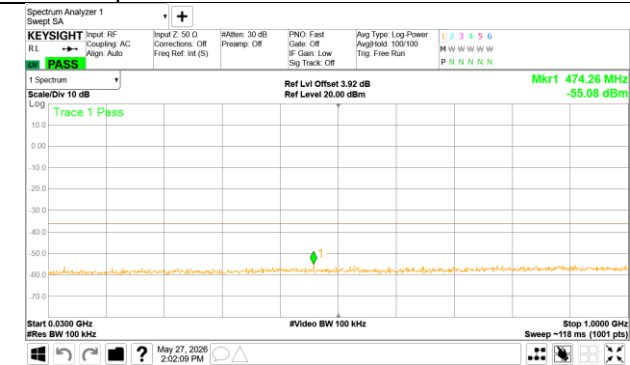


NVNT Test Graphs 1Mbps

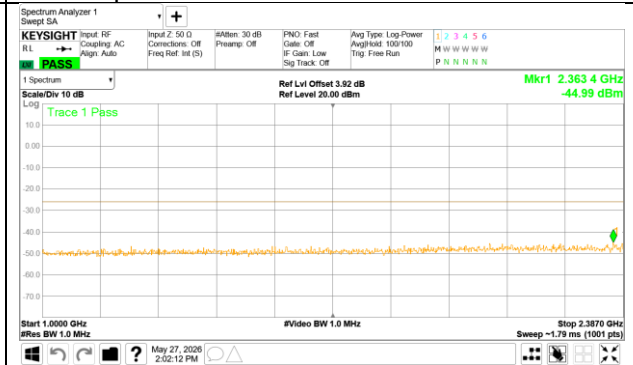


NVNT Test Graphs 2Mbps

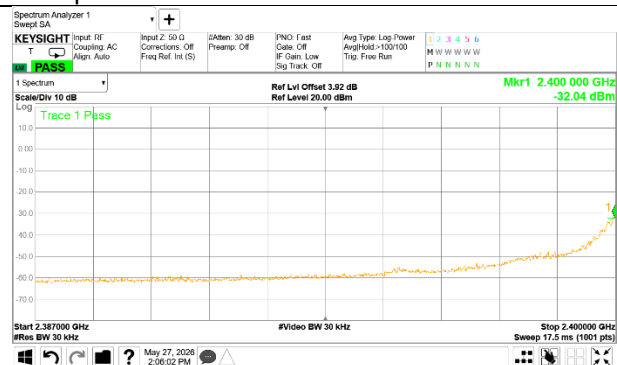
Tx. Spurious 2402MHz Ant1 30MHz-1000MHz



Tx. Spurious 2402MHz Ant1 1000MHz-2387MHz



Tx. Spurious 2402MHz Ant1 2387MHz-2400MHz



Note: If spurious emissions are greater than [limit -3dB] in 1MHz RBW, then more detailed measurements are required. Repeat the test in 30kHz RBW, the spurious emission value using following the formula below:

Calculated Value = (Measured Value + 15.2dB)

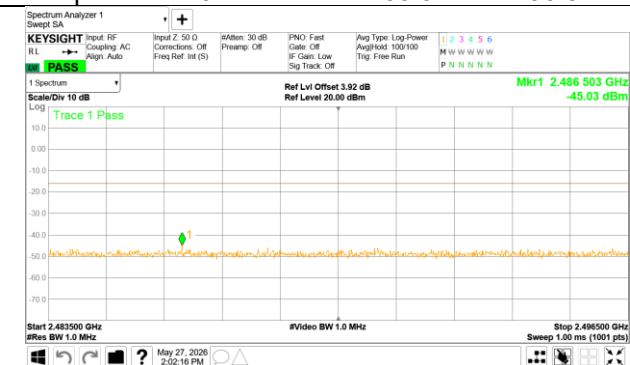
15.2dB adjustment is derived from the Conversion Factor of RBW

Conversion Factor of RBW = $10 \times \log(\text{Reference Bandwidth} / \text{RBW of measurement}) = 15.2[\text{dB}]$

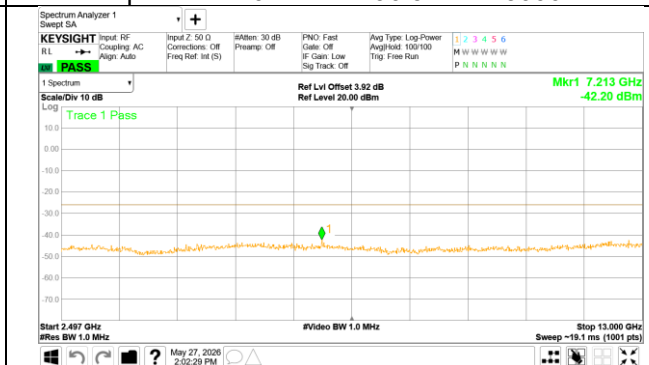
Where: Reference Bandwidth = 1MHz

RBW of measurement = 30kHz

Tx. Spurious 2402MHz Ant1 2483.5MHz-2496.5MHz



Tx. Spurious 2402MHz 2496.5MHz-13000MHz



NVNT Test Graphs 2Mbps



NVNT Test Graphs 2Mbps



3.7 Secondary Emitted Radio Wave Strength

3.7.1 Test condition

Date of testing:	05/20/2026~05/28/2026
Channel:	2402MHz, 2440MHz, 2480MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

3.7.2 Limit

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

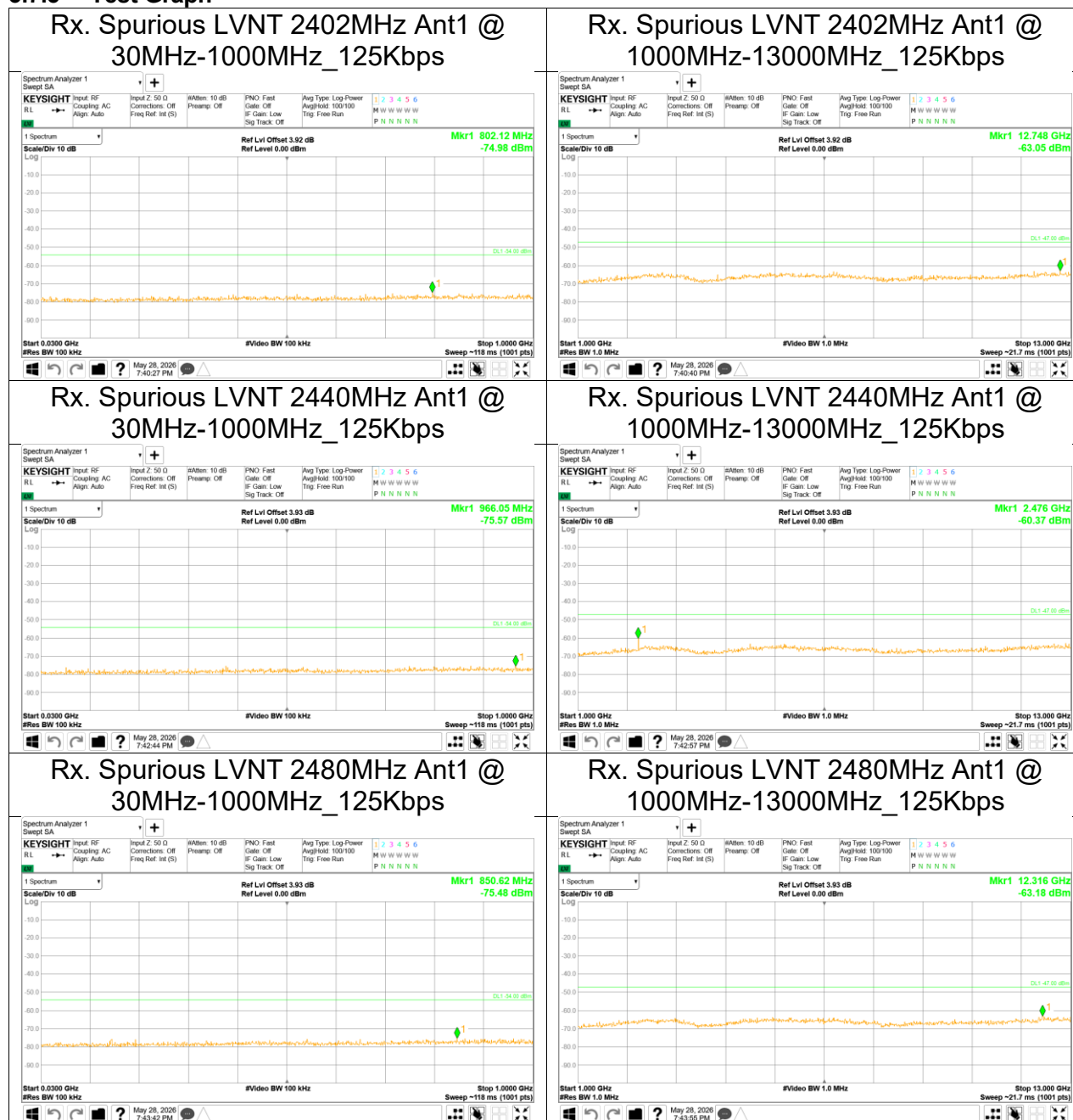
3.7.3 Test Result

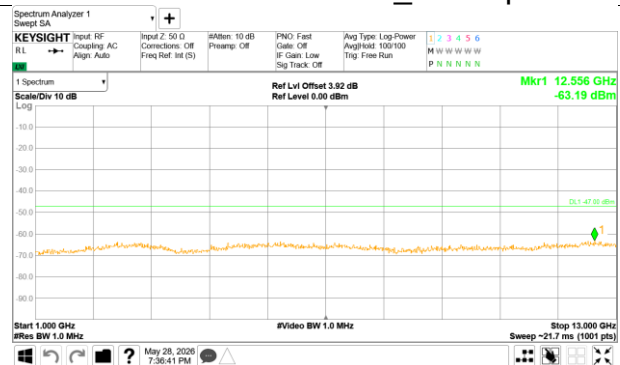
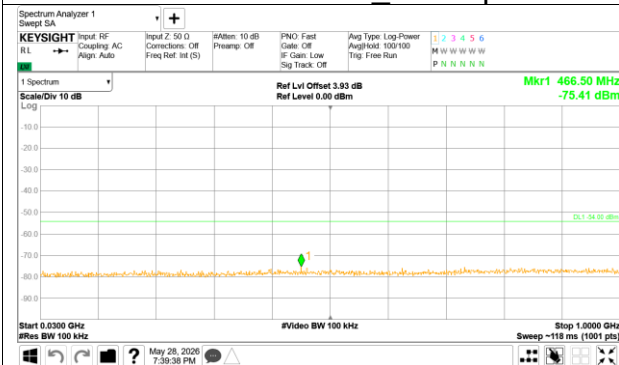
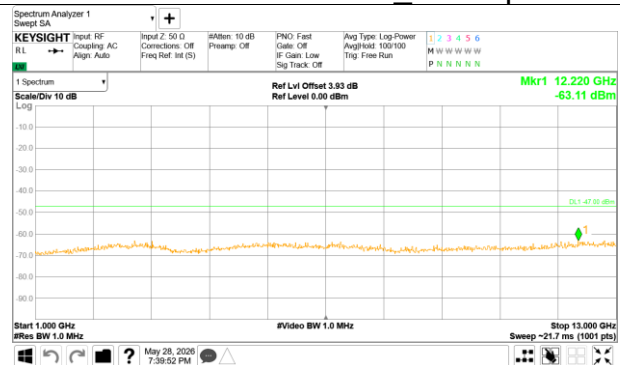
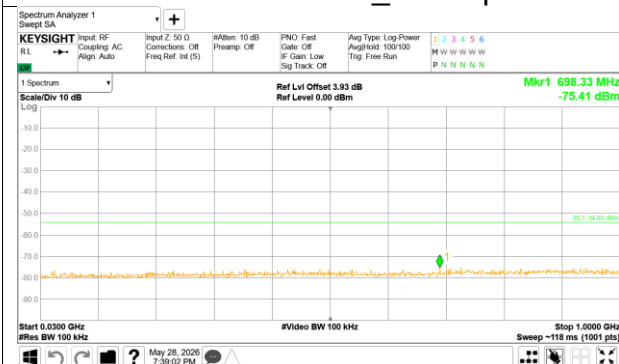
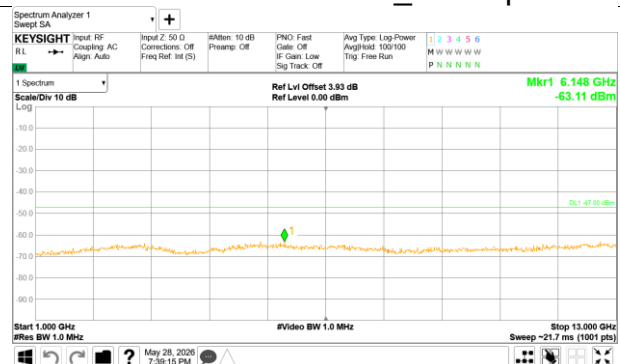
Test Condition	Test Mode	Channel (MHz)	Freq., Range (MHz)	Emission Frequency (MHz)	Result (nW)	Limit (nW)	Verdict
NTNV	GFSK 125Kbps	2402	30~1000	802.12	0.031769	4.0	PASS
NTNV	GFSK 125Kbps	2402	1000~13000	12748	0.495450	20.0	PASS
NTNV	GFSK 125Kbps	2440	30~1000	966.05	0.027733	4.0	PASS
NTNV	GFSK 125Kbps	2440	1000~13000	2476	0.916220	20.0	PASS
NTNV	GFSK 125Kbps	2480	30~1000	850.62	0.028314	4.0	PASS
NTNV	GFSK 125Kbps	2480	1000~13000	12316	0.480839	20.0	PASS
Test Condition	Test Mode	Channel (MHz)	Freq., Range (MHz)	Emission Frequency (MHz)	Result (nW)	Limit (nW)	Verdict
NTNV	GFSK 500Kbps	2402	30~1000	845.77	0.031696	4.0	PASS
NTNV	GFSK 500Kbps	2402	1000~13000	12556	0.479733	20.0	PASS
NTNV	GFSK 500Kbps	2440	30~1000	466.5	0.028708	4.0	PASS
NTNV	GFSK 500Kbps	2440	1000~13000	12220	0.488652	20.0	PASS
NTNV	GFSK 500Kbps	2480	30~1000	698.33	0.028774	4.0	PASS
NTNV	GFSK 500Kbps	2480	1000~13000	6148	0.488652	20.0	PASS
Test Condition	Test Mode	Channel (MHz)	Freq., Range (MHz)	Emission Frequency (MHz)	Result (nW)	Limit (nW)	Verdict
NTNV	GFSK 1Mbps	2402	30~1000	891.36	0.032359	4.0	PASS
NTNV	GFSK 1Mbps	2402	1000~13000	6124	0.469894	20.0	PASS
NTNV	GFSK 1Mbps	2440	30~1000	542.16	0.028119	4.0	PASS
NTNV	GFSK 1Mbps	2440	1000~13000	12388	0.484172	20.0	PASS
NTNV	GFSK 1Mbps	2480	30~1000	947.62	0.030690	4.0	PASS
NTNV	GFSK 1Mbps	2480	1000~13000	12676	0.490908	20.0	PASS
Test Condition	Test Mode	Channel (MHz)	Freq., Range (MHz)	Emission Frequency (MHz)	Result (nW)	Limit (nW)	Verdict
NTNV	GFSK 2Mbps	2402	30~1000	880.69	0.030761	4.0	PASS
NTNV	GFSK 2Mbps	2402	1000~13000	6112	0.426580	20.0	PASS
NTNV	GFSK 2Mbps	2440	30~1000	988.36	0.028054	4.0	PASS
NTNV	GFSK 2Mbps	2440	1000~13000	12352	0.477529	20.0	PASS
NTNV	GFSK 2Mbps	2480	30~1000	904.94	0.036813	4.0	PASS
NTNV	GFSK 2Mbps	2480	1000~13000	12376	0.439542	20.0	PASS

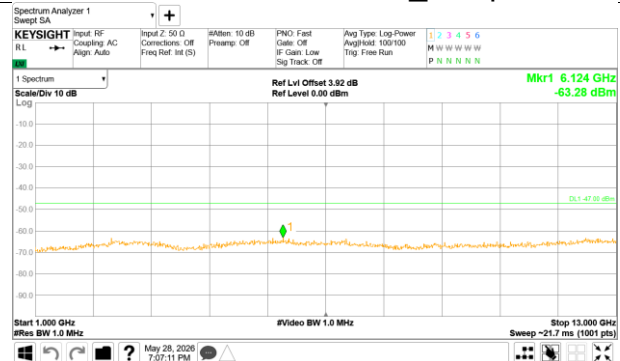
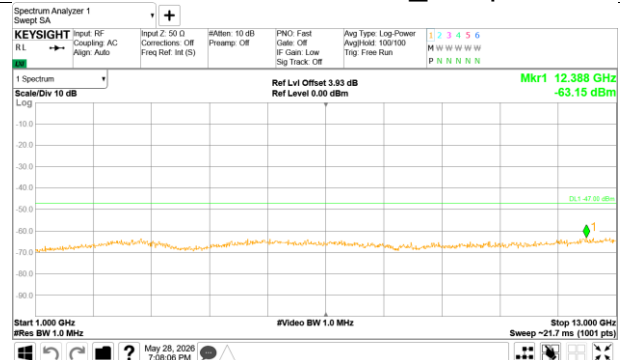
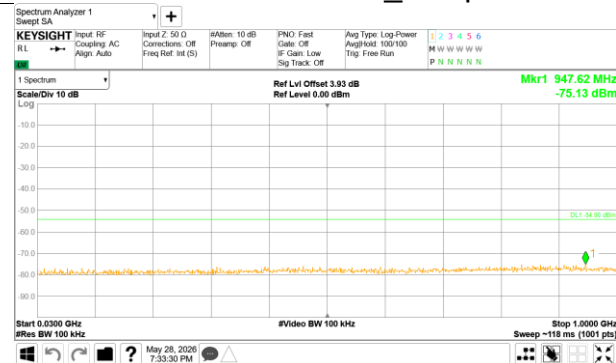
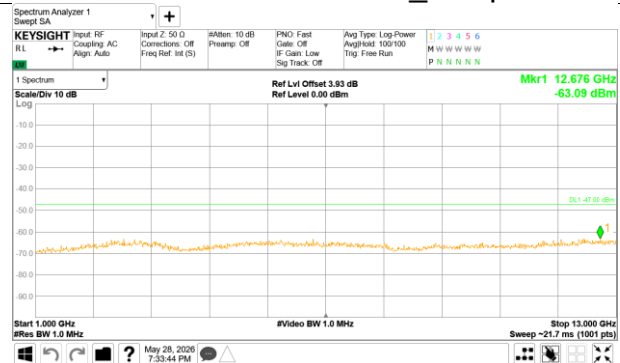
3.7.4 Test Result

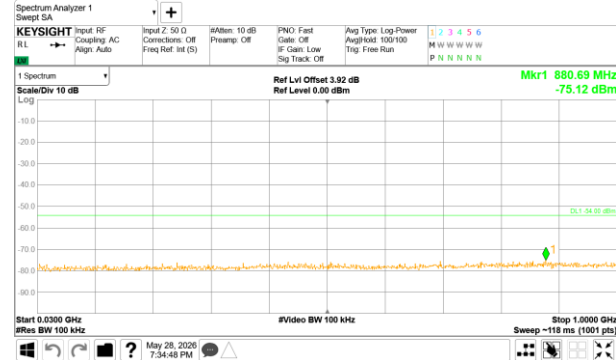
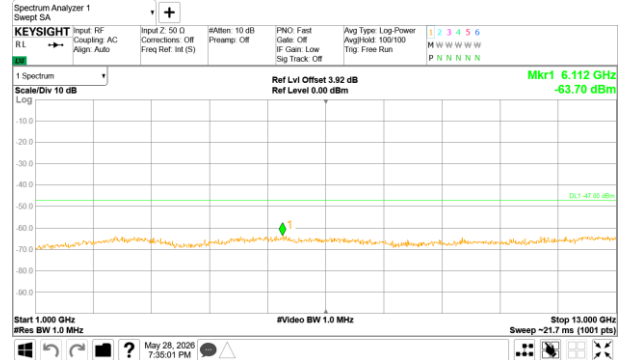
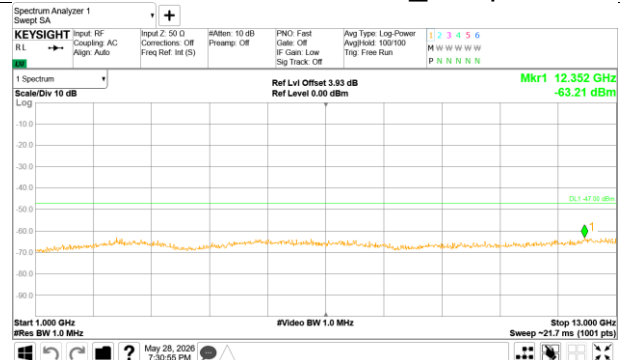
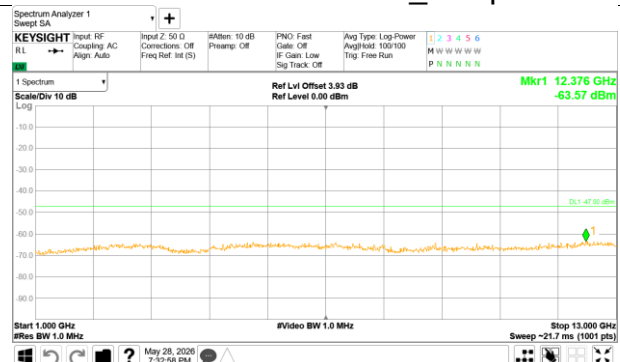
The equipment met the requirement of this clause.

3.7.5 Test Graph



**Rx. Spurious LVNT 2402MHz Ant1 @
30MHz-1000MHz_500Kbps****Rx. Spurious LVNT 2402MHz Ant1 @
1000MHz-13000MHz_500Kbps****Rx. Spurious LVNT 2440MHz Ant1 @
30MHz-1000MHz_500Kbps****Rx. Spurious LVNT 2440MHz Ant1 @
1000MHz-13000MHz_500Kbps****Rx. Spurious LVNT 2480MHz Ant1 @
30MHz-1000MHz_500Kbps****Rx. Spurious LVNT 2480MHz Ant1 @
1000MHz-13000MHz_500Kbps**

**Rx. Spurious LVNT 2402MHz Ant1 @
30MHz-1000MHz_1Mbps****Rx. Spurious LVNT 2402MHz Ant1 @
1000MHz-13000MHz_1Mbps****Rx. Spurious LVNT 2440MHz Ant1 @
30MHz-1000MHz_1Mbps****Rx. Spurious LVNT 2440MHz Ant1 @
1000MHz-13000MHz_1Mbps****Rx. Spurious LVNT 2480MHz Ant1 @
30MHz-1000MHz_1Mbps****Rx. Spurious LVNT 2480MHz Ant1 @
1000MHz-13000MHz_1Mbps**

**Rx. Spurious LVNT 2402MHz Ant1 @
30MHz-1000MHz_2Mbps****Rx. Spurious LVNT 2402MHz Ant1 @
1000MHz-13000MHz_2Mbps****Rx. Spurious LVNT 2440MHz Ant1 @
30MHz-1000MHz_2Mbps****Rx. Spurious LVNT 2440MHz Ant1 @
1000MHz-13000MHz_2Mbps****Rx. Spurious LVNT 2480MHz Ant1 @
30MHz-1000MHz_2Mbps****Rx. Spurious LVNT 2480MHz Ant1 @
1000MHz-13000MHz_2Mbps**

3.8 Interference prevention function

3.8.1 Test condition

Date of testing:	05/20/2026~05/28/2026
Channel:	2402MHz, 2440MHz, 2480MHz
Test position:	Transmitting
Ambient temperature:	15-35 °C
Relative humidity:	30-60 %
Atmosphere Pressure:	860 – 1060 hPa

3.8.2 Limit

Item	Limits
Identification Code	≥48 bits

Measured Result: 00:17:88:01:10:87:71:2B

Complies. EUT displayed a valid identification. In real life applications, the EUT is programmed to connect with specific host only.

3.8.3 Result

The equipment met the requirement of this clause.



4 Photographs of Test Set-ups

Refer to the < Test Setup photos >.



5 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

-----End of Test Report-----