TEST REPORT

Report No.:	TWN2511838-03E
Applicant:	Crafty Co.,Ltd.
Product:	Monitor
Model No.:	ELV-4321K
Trade Mark:	Crafty
Test Standards:	Article 2 paragraph 1 item (19) ARIB STD T-66 Ver.3.7. MIC Notice No.88 Appendix No.43
Test result:	It is herewith confirmed and found to comply with the requirements set up by ARIB STD T-66 Ver.3.7 regulations for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Terry Tang

Manager

Dated: December 12, 2025

Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

複製禁止

Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

ISED —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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1.0 General Details

1.1 Test Lab Details

Name:	SHENZHEN TIMEWAY TESTING LABORATORIES.
Address:	Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone:	(755) 83448688
Fax:	(755) 83442996

1.2 Applicant Details

Applicant:	Crafty Co.,Ltd.
Address:	16F Shinjuku Mitsui Building, 2-1-1 Nishi-Shinjuku, Shinjuku-ku, Tokyo JAPAN 163-0416

1.3 Description of EUT

Product:	Monitor
Manufacturer:	KLEINZ CO., LTD
Address:	15-76, Suworam-gil, Seotan-myeon, Pyeongtaek-si,Gyeonggi-do, Republic of Korea
Factory:	WEIHAI TAIJI WISDOM DISPLAY PHOTOELECTRIC TECHNOLOGY CO., LTD
Address:	No. 62-3, Manxing Road, Manshan Town, Lingang Economic and Technological Development Zone, Weihai, Shandong, China
Tradename:	Crafty
Model Number:	ELV-4321K

Additional Model Number: N/A
Hardware version: TP.SK529.PB807（N）E25203 V3
Software version: SK529_PB807A_SUB_A5_1920_IR_AP_S315_
LOGO_JAPAN_COMMON_AN14_8G_ddr3_512X2MB_P_1KEY_REF75_V3_2
Rating: 100V~ 50/60Hz, 1.8A, 75W

1.4 Submitted Sample: 2 Samples

1.5 Test Duration: 2025-11-27 to 2025-12-12

1.7 Test Engineer

The sample tested by Andy Xiang

Print Name: Andy Xiang

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2. List of Measurement Equipment

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESVD	100008	RS	2025-07-11	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Amplifier	8447D	2727A05017	HP	2025-07-11	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2025-07-11	1Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2025-07-11	1Year
Horn Antenna	BBHA 9170	BBHA9170265	Schwarebeck	2025-07-11	1Year
Test Receiver	FSP	100836	RS	2025-07-11	1Year
Spectrum	FSIQ26	100292	RS	2025-07-11	1Year
Amplifier	EM-30180	060268	EM	2025-07-11	1Year
Power Meter	ML2487A	6K00003613	Anritsu	2025-07-11	1Year
Power Sensor	MA2491A	32263	Anritsu	2025-07-11	1Year
Signal Generator	N5182A	MY47431282	Agilent	2025-07-11	1Year
DC Power Supply	QJ3005T	--	Harrison	2025-07-11	1Year

Remark: 1. 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).
2. Calibration provided: Guangzhou Lisai Calibration and Testing Co.,Ltd
3. Calibration by: Hui Xiao

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3. SUMMARY OF TEST

Test procedures according to the technical standards:

ARIB STD T-66 Ver.3.7			
Article 2, Paragraph 1, Item (19) Rules Section	Test Item	Judgment	Remark
1	Frequency Error	Pass	
2	Antenna Power	Pass	
3	Occupied Bandwidth (99%) and Spreading Bandwidth (90%)	Pass	
4	Unwanted Emission Strength	Pass	
5	Hopping Frequency Dwell Time (FH employed)	Pass	
6	Carrier Sense	N/A	
7	Interference prevention function	Pass	
8	Secondary Radiated Emission Strength	Pass	
9	Transmitting Antenna Absolute Gain	N/A_{Note1}	
10	Half Power Beam Angle (Radiation angle of antenna)	N/A_{Note1}	

NOTE:

N/A_{Note1}: It is unnecessary to testing, when a E.I.R.P. is less than the variable E.I.R.P. limit of minimum (DSSS: 12.14dBm/MHz or less, FHSS (2427 - 2470.75 MHz) :6.91dBm/MHz or less, etc.)"

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4 Test Facility

4.1 Measurement Uncertainty

The reported uncertainty of measurement **y** ± **U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95** %。

No.	Item	Uncertainty
1	Conducted Emission Test	±3.6dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(<1G)	±4.7dB
5	All emissions, radiated(>1G)	±5.2dB

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5. General Information

5.1 General Description of EUT

Equipment	Monitor
Model Name	ELV-4321K
Trade Mark	Crafty
Product Description	The EUT is a Monitor Operation Frequency: 2402~2480 MHz Modulation Type: GFSK, JI/4DQPSK, 8DPSK Number Of Channel 79CH Antenna Designation: Dipole Antenna Antenna Gain (Peak) 1.39dBi
Channel List	Please refer to the Note 2.
Input Voltage:	100V~ 50/60Hz, 1.8A
Adapter	N/A
Battery	--
Hardware Version	TP.SK529.PB807（N）E25203 V3
Software Version	SK529_PB807A_SUB_A5_1920_IR_AP_S315_LOGO_JAPAN_COMMON_AN14_8G_ddr3_512X2MB_P_1KEY_REF75_V3_2

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	28	2430	56	2458
01	2403	29	2431	57	2459
02	2404	30	2432	58	2460
03	2405	31	2433	59	2461
04	2406	32	2434	60	2462

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05	2407	33	2435	61	2463
06	2408	34	2436	62	2464
07	2409	35	2437	63	2465
08	2410	36	2438	64	2466
09	2411	37	2439	65	2467
10	2412	38	2440	66	2468
11	2413	39	2441	67	2469
12	2414	40	2442	68	2470
13	2415	41	2443	69	2471
14	2416	42	2444	70	2472
15	2417	43	2445	71	2473
16	2418	44	2446	72	2474
17	2419	45	2447	73	2475
18	2420	46	2448	74	2476
19	2421	47	2449	75	2477
20	2422	48	2450	76	2478
21	2423	49	2451	77	2479
22	2424	50	2452	78	2480
23	2425	51	2453	--	--
24	2426	52	2454	--	--
25	2427	53	2455	--	--
26	2428	54	2456	--	--
27	2429	55	2457	--	--

3.

Table for Filed Antenna

Ant.	Brand	Part No.	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	EWF001.D2B01B.SMAMF	Dipole Antenna	N/A	1.39 (Max.)	N/A

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5.2 Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	GFSK (CH00 CH39 CH78)
Mode 2	/4DQPSK (CH00 CH39 CH78)
Mode 3	8DPSK (CH00 CH39 CH78)

Final Test Mode	Description
Mode 1	GFSK (CH00 CH39 CH78)
Mode 2	/4DQPSK (CH00 CH39 CH78)
Mode 3	8DPSK (CH00 CH39 CH78)

5.3 Test Conditions

Power supply: The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation (±1%) against input voltage fluctuation (±10%). So, all measurements were conducted at only rated voltage 100V~.

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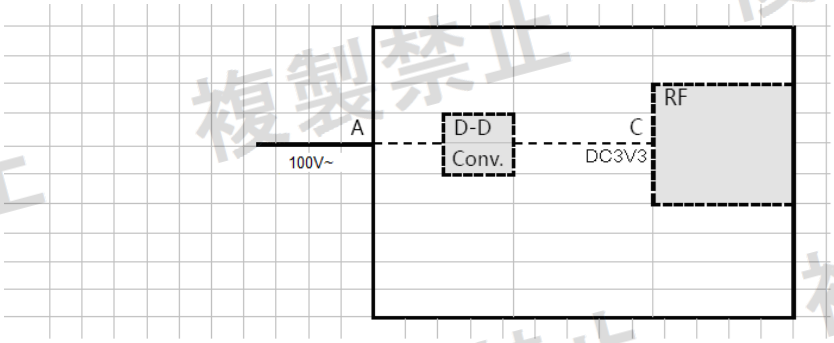

Test below:
1: The fluctuation of C point is under ±1%, when input voltage from A point to the test equipment is fluctuated by ±10%.

The measurement result of the voltage fluctuation at RF circuit when 100V~ +/- 10%

100V~	DC3.3V
90V~	DC3.3V
110V~	DC3.3V

Pre-test the EUT in all voltage mode at the 100V~, 90V~ and 110V~ and conducted to determine the worst-case mode, only the worst-case results (100V~) are recorded in this report.

The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation (±1%) against input voltage fluctuation (±10%). So, all measurements were conducted at only rated voltage 100V~.

Temperature: 25.0°C

Humidity: 56 % RH

Atmospheric Pressure: 101kPa

Test frequencies: If the EUT can be set to 3 of more different (carrier) frequencies in 1 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.

Voltage Fluctuation Test	Normal Voltage	High Voltage	Low Voltage
AC Power	100V~	110V~	90V~

Note: 1. During the test, the input supply voltage to the EUT from the external power source is varied.

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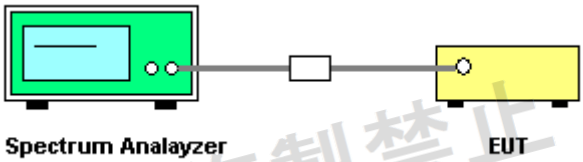
5.4 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Test program: N/A		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters	DEF	DEF	DEF

5.5 Block Diagram Showing the Configuration of System Tested

Mode :



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5.6 Description of Support Units (Conducted Mode)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Monitor	Crafty	ELV-4321K	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.
(3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

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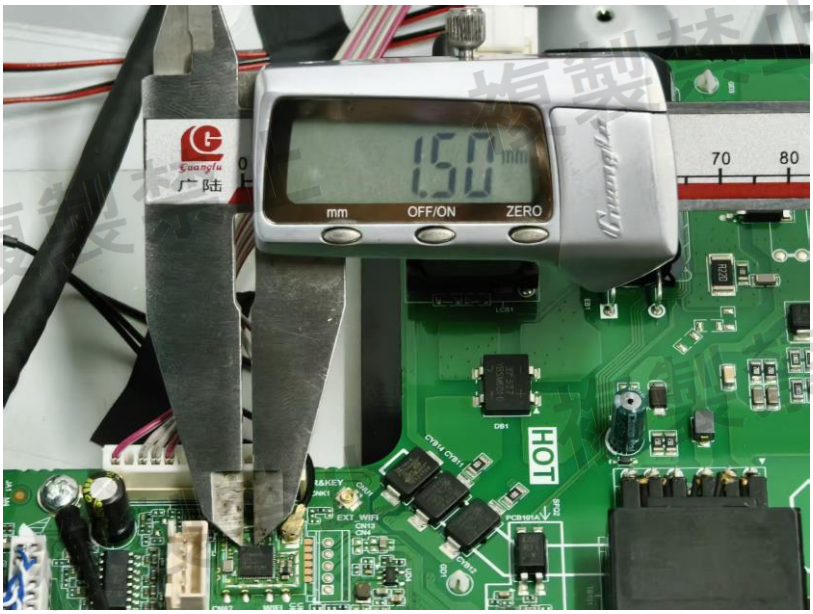
6. RF Shielding Method

We apply the product for Japan RF certification.

1. Total Pins of RF IC: 48
2. Terminal pitch is less than 1.5mm. Please refer to following for photo for details.

It is not easily removed. Please refer to following for photo for details.



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7 Frequency Error

7.1 Limit

Item	Limits
Frequency Error	±50ppm

7.2 Measuring Instrument and Setting

The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	3kHz/10kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
Span	75kHz

7.3 Test Procedures

(1)In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.

(2)In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.

(3)In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.

(4)In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.

In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the

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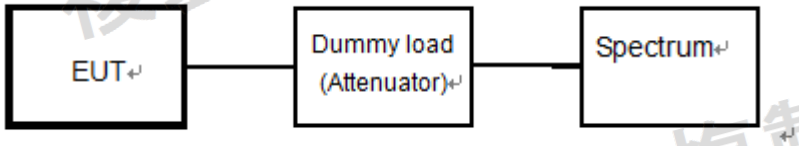
spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and
determine the frequency of the signal generator at the time as a measured value.

7.4 Test Setup Layout



7.5 Environment Condition

Temperature: 25.0˚C
Humidity: 56% RH

Note: Pre-test the EUT in all voltage mode at the 100V~, 110V~ and 90V~ and conducted to determine the worst-case mode, only the worst-case results (100V~) are recorded in this report.
The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation (±1%) against input voltage fluctuation (±10%). So, all measurements were conducted at only rated voltage 100V~.

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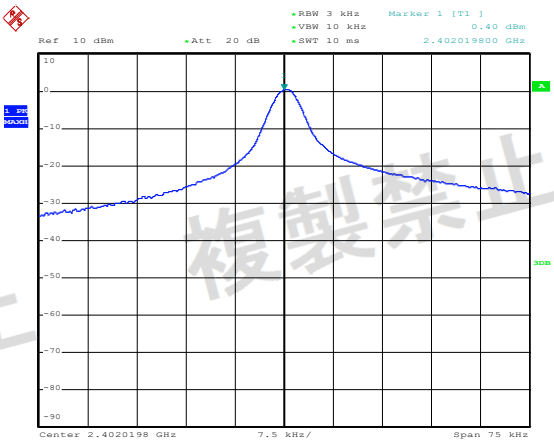
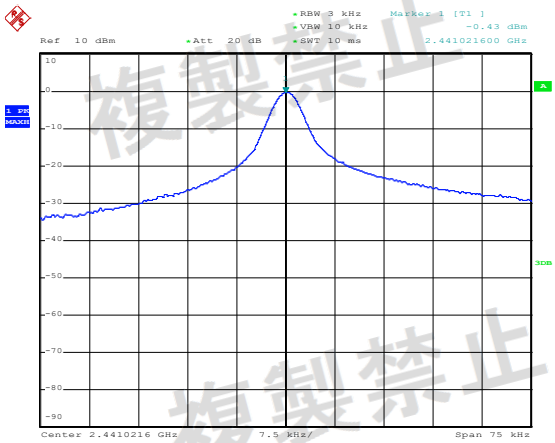
7.6 TEST RESULT

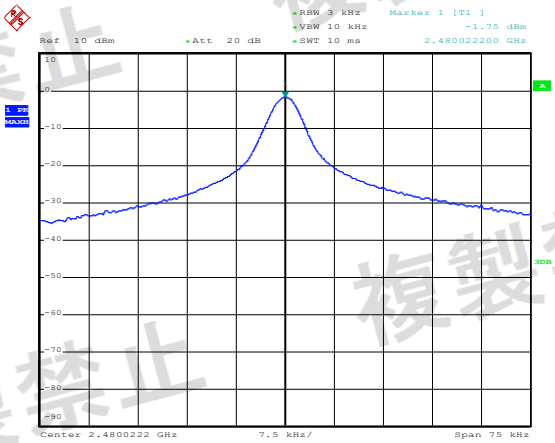
Frequecy	Reading	Tolerance	Limit	Remark
MHz	MHz	ppm	(ppm)	
2402	2402.0198	8.243	±50	Normal Voltage: 100V~
2441	2441.0216	8.849	±50	
2480	2480.0222	8.952	±50	



Date: 12.DEC.2025 15:22:34



Date: 12.DEC.2025 15:24:13



Date: 12.DEC.2025 15:24:33

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8. Antenna Power

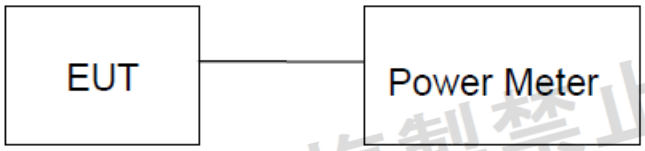
8.1 Limit

Item	Limits
Antenna Power Density	≦3mW/MHz (FH form 2427 - 2470.75 MHz) ≦10mW/MHz (FH-OFDM, except for: from 2427 - 2470.75 MHz) ≦10mW/MHz (OFDM,DS from2400~2483.5MHz) ≦10mW (Other from 2400~2483.5MHz)
Antenna Power Error	+20% (Base on manufacturer declare antenna power density)

8.2 Test Procedures

1. The EUT was set under hopping mode with maximum power output
2. The Connected was connected to a power meter
3. Output Power Density (mW/MHz) = Output Power (mW)/Spread Bandwidth (MHz)
4. Antenna Power Error is definition that actual measure antenna power tolerance between + 20% to - 80% power range that base on manufacturer declare the

8.3 Test Setup Layout



8.4 Test Deviation

There is no deviation with the original standard.

Note: Pre-test the EUT in all voltage mode at the 100V~, 110V~ and 90V~ and conducted to determine the worst-case mode, only the worst-case results (100V~) are recorded in this report.
The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation (±1%) against input voltage fluctuation (±10%). So, all measurements were conducted at only rated voltage 100V~.

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8.5 Test Result

EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25^{0}C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	**GFSK Hopping Mode**		

Manufacturer declared the conducted power density=0.02mW/MHz

Power (dBm)	Power (mW)	Spread Bandwidth (MHz)	Antenna Power Density PD (mW/MHz)	Antenna Power Error	Verdict
0.45	1.11	69.14	0.0161	-19.5%	Pass

EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25^{0}C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	**Л/4DQPSK Hopping Mode**		

Manufacturer declared the conducted power density=0.02mW/MHz

Power (dBm)	Power (mW)	Spread Bandwidth (MHz)	Antenna Power Density PD (mW/MHz)	Antenna Power Error	Verdict
1.12	1.29	69.64	0.0185	-7.50%	Pass

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EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25^{0}C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	**8DPSK Hopping Mode**		

Manufacturer declared the conducted power density=0.02mW/MHz

Power (dBm)	Power (mW)	Spread Bandwidth (MHz)	Antenna Power Density PD (mW/MHz)	Antenna Power Error	Verdict
1.00	1.26	69.31	0.0182	-9.00%	Pass

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9. Occupied Bandwidth (99%) and Spread-spectrum Bandwidth (90%)/Factor

9.1 Limit

Item	Limits
Occupied Bandwidth	FH≤83.5MHz; OFDM=26-40MHz,DS≤26MHz; Others≤26MHz
Spread-spectrum Bandwidth	≥500kHz (FH, DS)
Spread-spectrum	≥5

9.2 Measuring Instrument and Setting

Please refer to section 5 in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	83.5 MHz
RB	100 kHz
VB	300 kHz
Sweep Time	Auto
Detector	Peak
Trace	Max Hold
Sweep	Continuous

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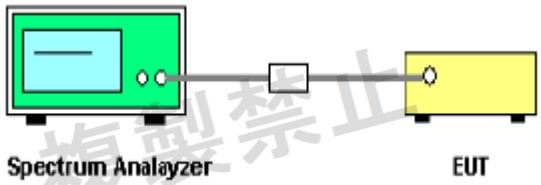
9.3 Test Setup Layout



9.4 Test Deviation

There is no deviation with the original standard.

Environment Condition:
Temperature: 25℃
Humidity: 56% RH

Note: Pre-test the EUT in all voltage mode at the 100V~, 110V~ and 90V~ and conducted to determine the worst-case mode, only the worst-case results (100V~) are recorded in this report.
The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation (±1%) against input voltage fluctuation (±10%). So, all measurements were conducted at only rated voltage 100V~.

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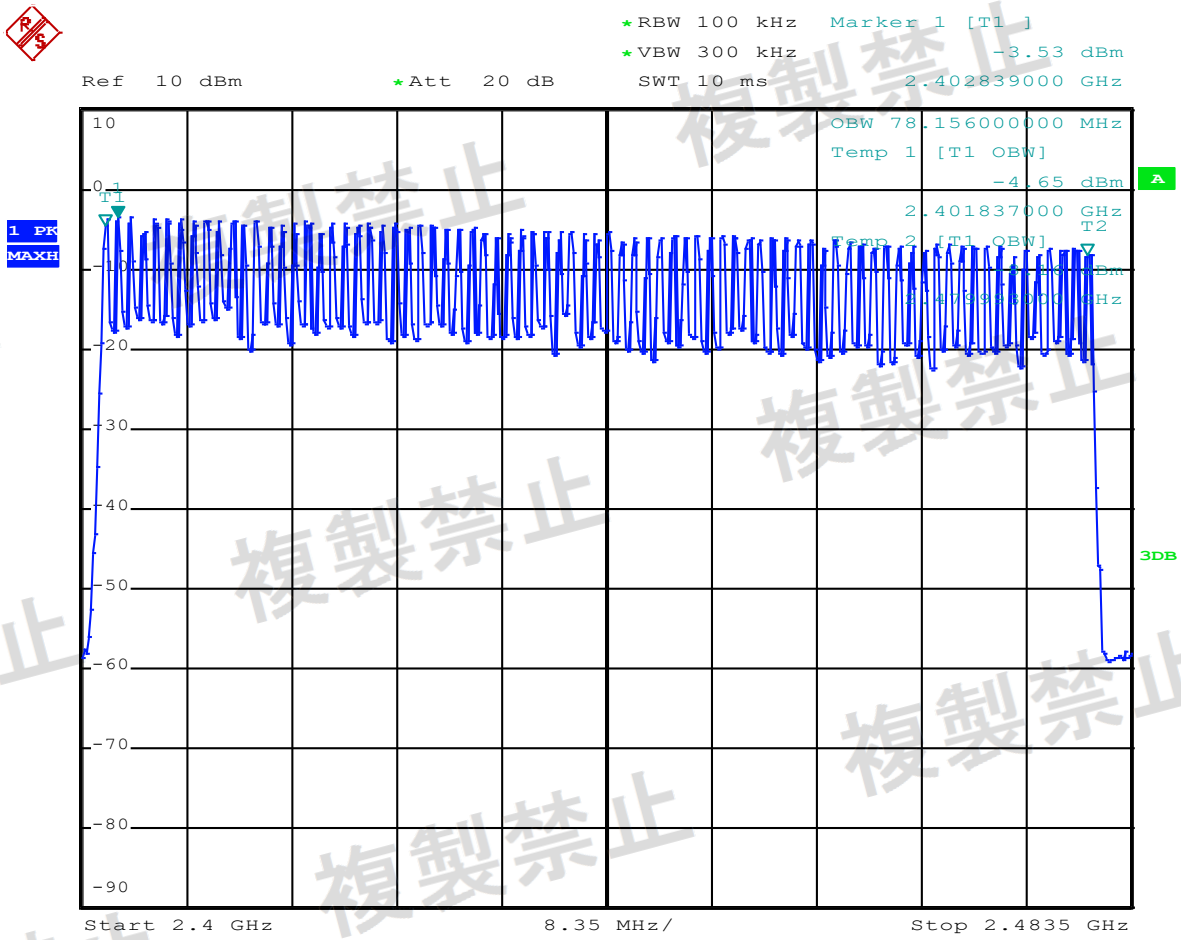
9.5 Test Result

GFSK Mode

Voltage	Hopping Mode (Occupied bandwidth) MHz
Normal Voltage (100V~)	78.16



Date: 12.DEC.2025 17:32:13

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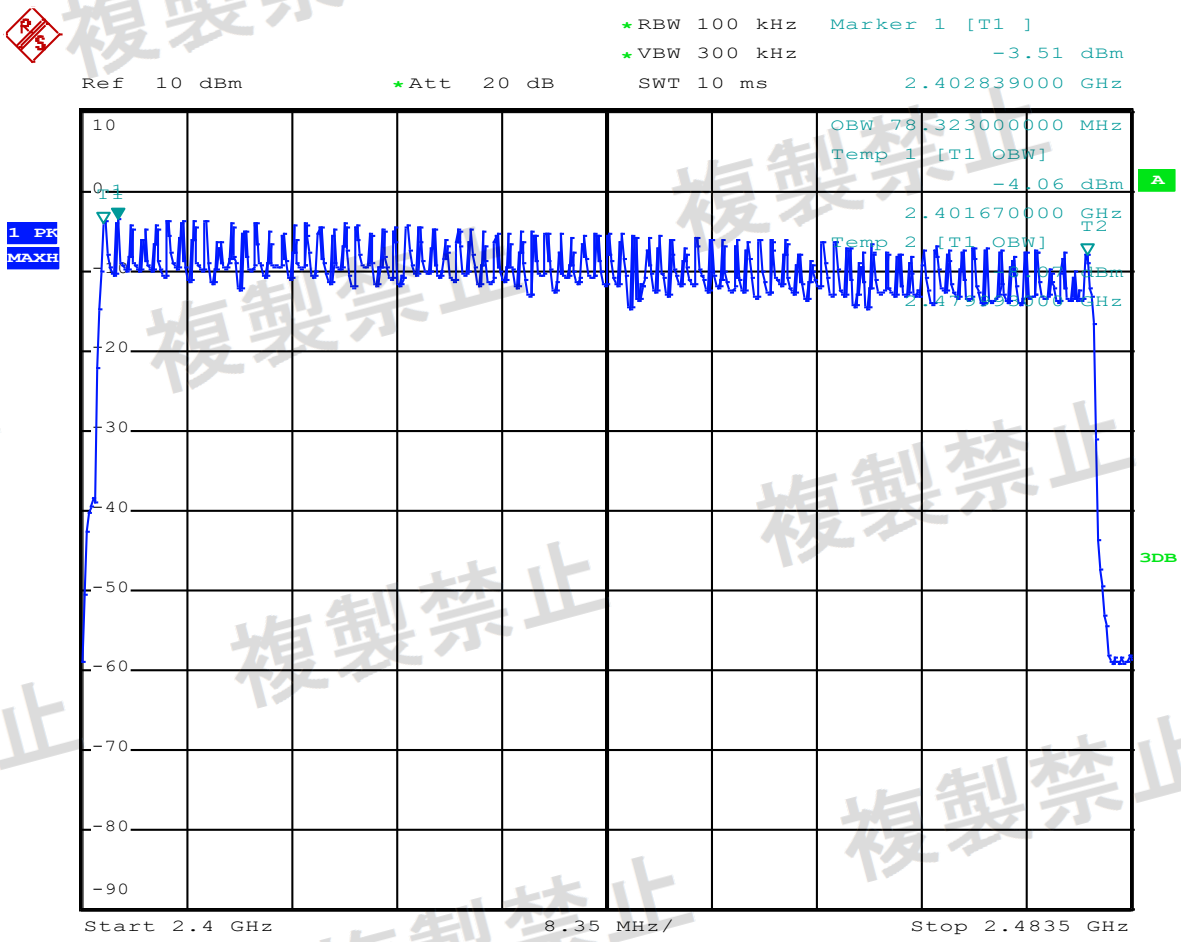
Л/4DQPSK Mode

Voltage	Hopping Mode (Occupied bandwidth) MHz
Normal Voltage (100V~)	78.32



Date: 12.DEC.2025 17:30:04

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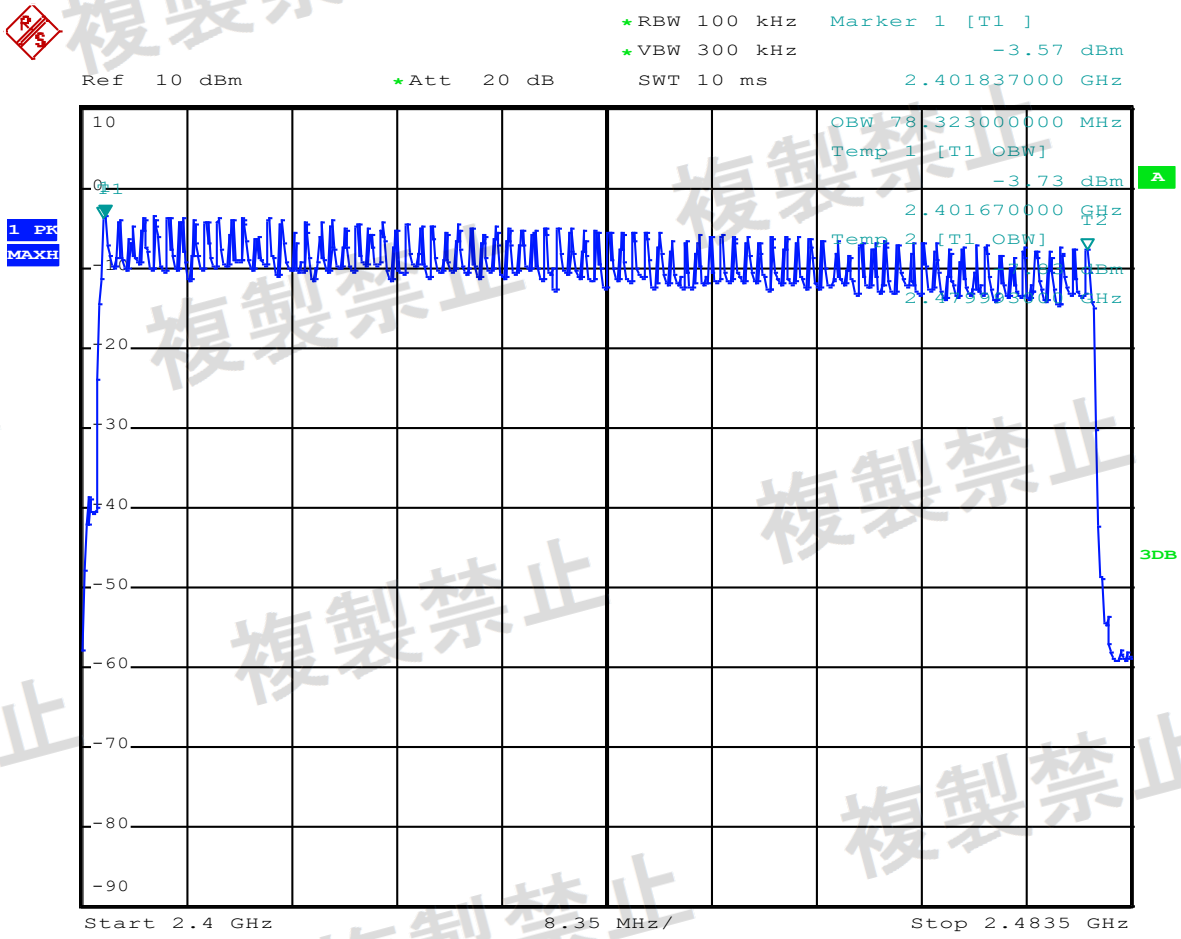
8DPSK Mode

Voltage	Hopping Mode (Occupied bandwidth) MHz
Normal Voltage (100V~)	78.32



Date: 12.DEC.2025 17:20:44

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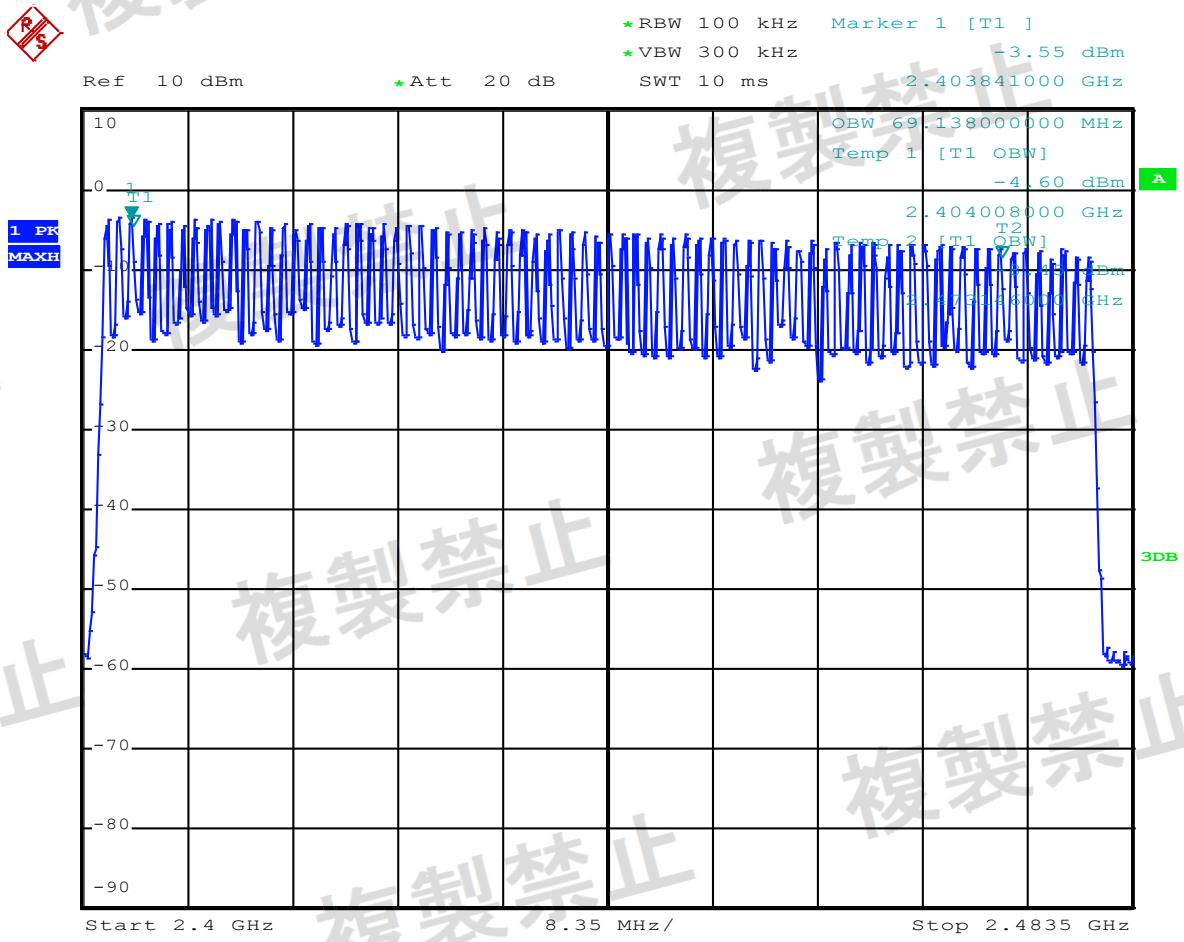
GFSK Mode

Voltage	Hopping Mode (Spread-spectrum Bandwidth) MHz	Spread-spectrum Factor
Normal Voltage (100V~)	69.14	69.14



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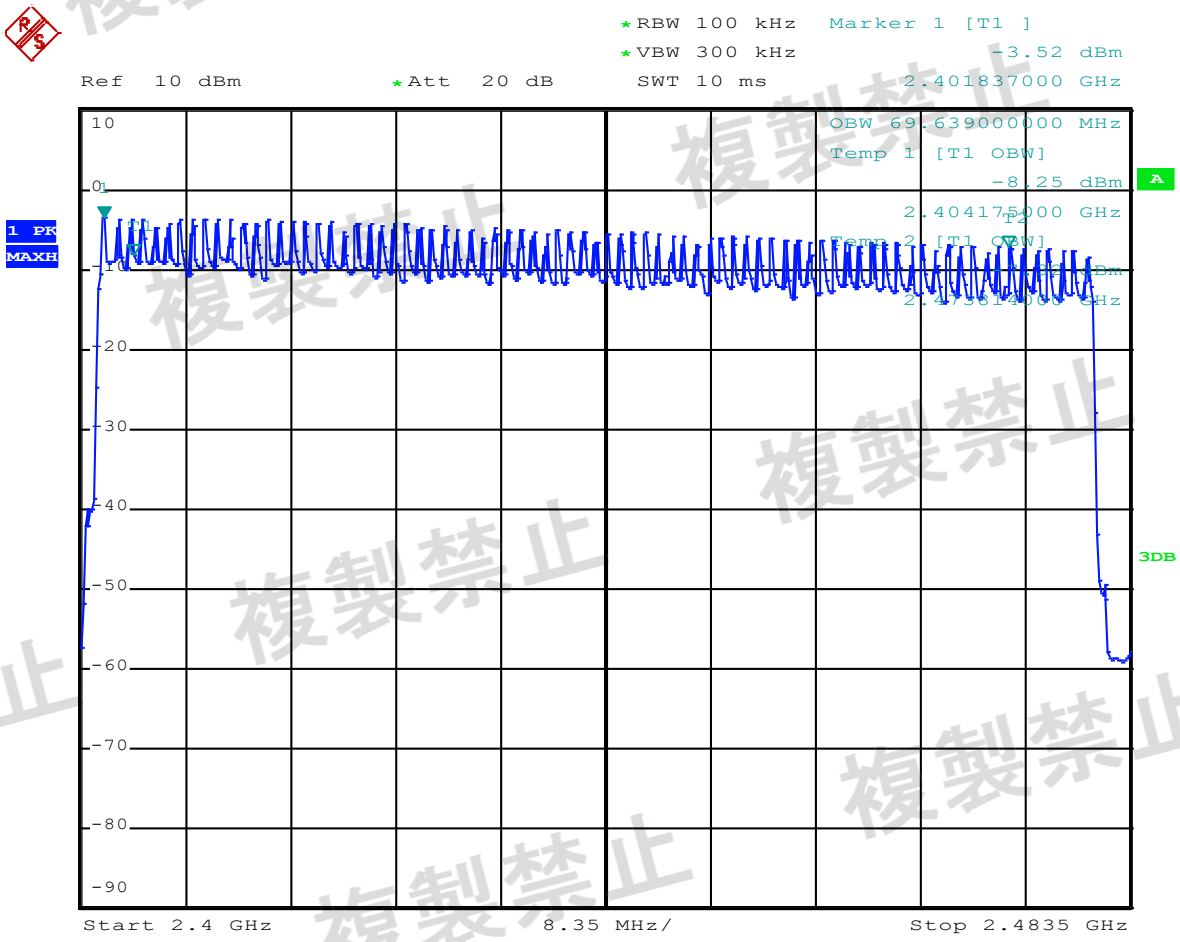
Л/4DQPSK Mode

Voltage	Hopping Mode (Spread-spectrum Bandwidth) MHz	Spread-spectrum Factor
Normal Voltage (100V~)	69.64	34.82



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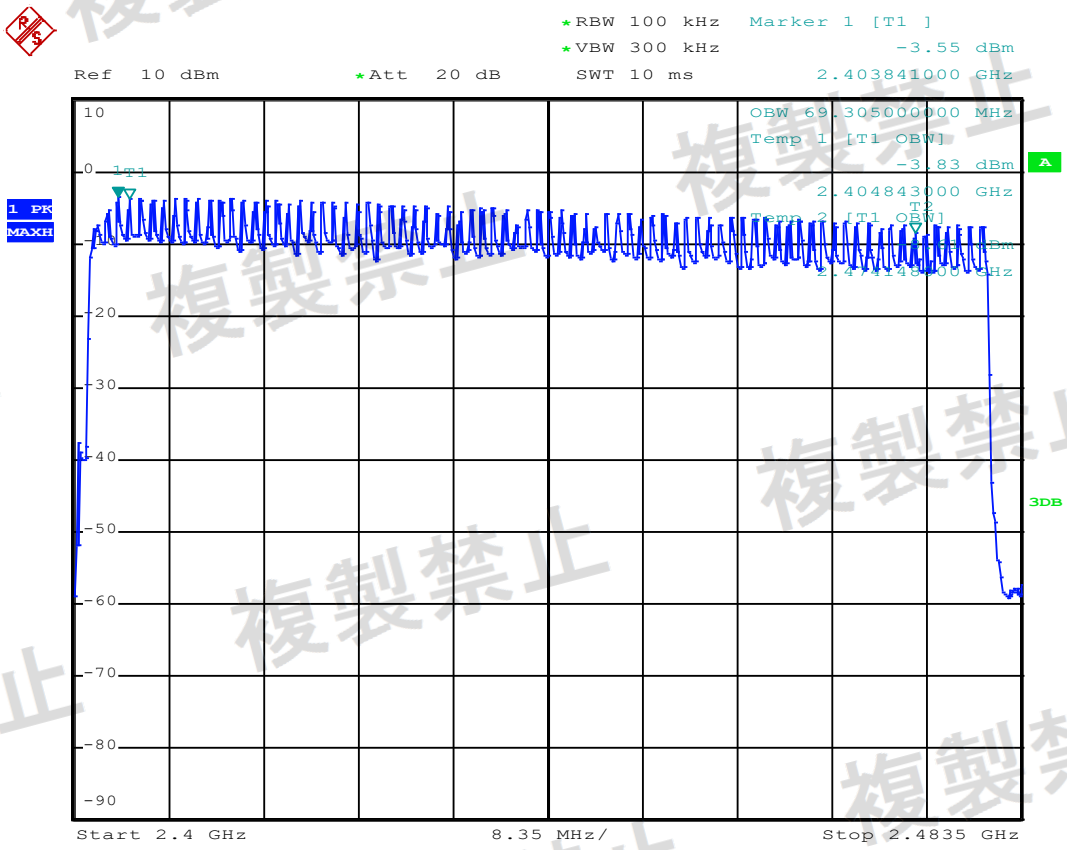
8DPSK Mode

Voltage	Hopping Mode (Spread-spectrum Bandwidth) MHz	Spread-spectrum Factor
Normal Voltage (100V~)	69.31	23.10



Date: 12.DEC.2025 17:24:26

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10. Unwanted Emission Strength

10.1 Limit

Item	Limits
TX Spurious Emission	≦2.5 μW (-26dBm) (30MHz≦f≦1000MHz)
	≦2.5 μW (-26dBm) (1000MHz<f≦2387MHz)
	≦25 μW (-16dBm) (2387MHz<f≦2400MHz)
	≦25 μW (-16dBm) (2483.5MHz≦f<2496.5MHz)
	≦2.5 μW (-26dBm) (2496.5MHz≦f<12500MHz)

10.2. Measuring Instrument and Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

10.3. Test Procedures

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: Below 1GHz RB:1MHz / VB:1MHz
   Above 1GHz RB:1MHz / VB:1MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto
   Sweep Mode: Continuous sweep / Detect mode: Positive peak
   Trace mode: Max hold
3. Setting of SA is following as 30MHz and stop frequency 2387MHz Then to mark
   peak reading value + cable loss shall be less than 2.5μW.

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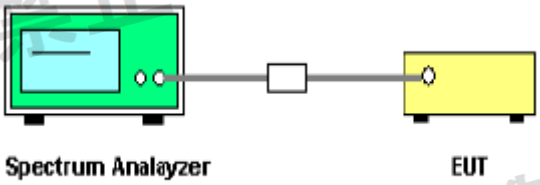
4. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25μW.
5. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25μW
6. SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5μW
7. If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.

10.4. Test Setup Layout



10.5. Test Deviation

There is no deviation with the original standard.

Note: Pre-test the EUT in all voltage mode at the 100V~, 110V~ and 90V~ and conducted to determine the worst-case mode, only the worst-case results (100V~) are recorded in this report.
The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation (±1%) against input voltage fluctuation (±10%). So, all measurements were conducted at only rated voltage 100V~.

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10.6. Test Result

EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25℃	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting-**GFSK Mode**		

Test Data:

Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μ W/MHz)	Limit (μ W/MHz)	P/F
NV	GFSK	2402	30-2387	2212.58200	-47.48	0.01786	2.5	Pass
NV	GFSK	2402	30-2387	661.676000	-46.17	0.02415	2.5	Pass
NV	GFSK	2402	2387-2400	2400.00000	-23.12	4.87528	25	Pass
NV	GFSK	2402	2483.5-2496.5	2493.32800	-54.01	0.00397	25	Pass
NV	GFSK	2402	2496.5-12500	9618.99200	-45.28	0.02965	2.5	Pass
NV	GFSK	2402	2496.5-12500	2576.52800	-50.11	0.00975	2.5	Pass
NV	GFSK	2402	2496.5-12500	4797.30500	-41.65	0.06839	2.5	Pass
NV	GFSK	2402	2496.5-12500	7198.14500	-42.16	0.06081	2.5	Pass

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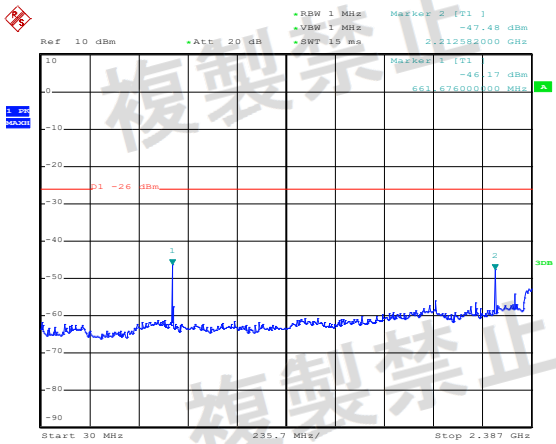
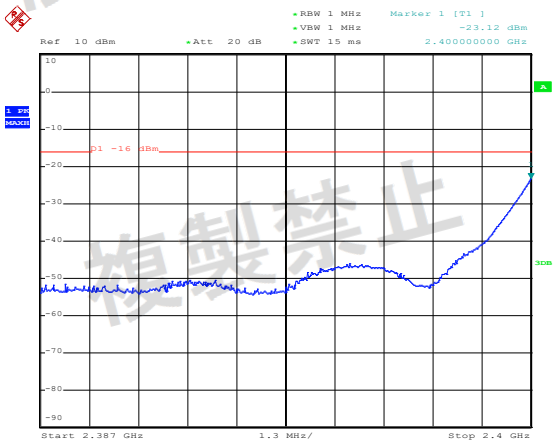
Test Figure:

CH 00- (30 MHz < f ≦ 2387 MHz)



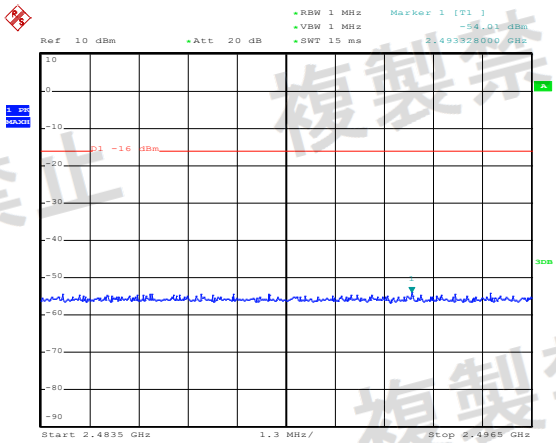
Date: 12.DEC.2025 15:27:17

CH 00- (2387 MHz < f ≦ 2400 MHz)



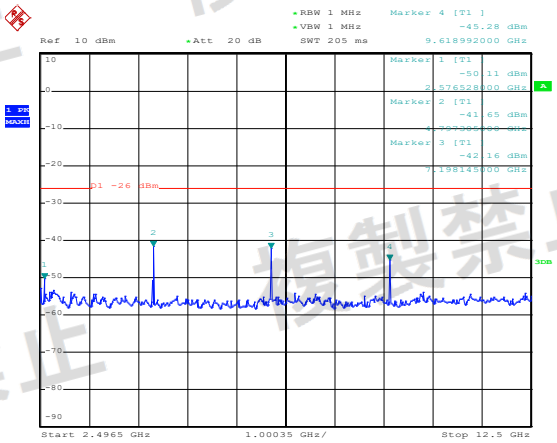
Date: 12.DEC.2025 15:36:20

CH 00- (2483.5 MHz ≦ f < 2496.5 MHz)



Date: 12.DEC.2025 15:36:53

CH 00- (2496.5 MHz ≦ f < 12.5 GHz)



Date: 12.DEC.2025 15:45:37

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EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25℃	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting-**GFSK Mode**		

Test Data:

Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	GFSK	2441	30-2387	2250.29400	-46.11	0.02449	2.5	NV
NV	GFSK	2441	30-2387	704.102000	-49.50	0.01122	2.5	Pass
NV	GFSK	2441	2387-2400	2396.75000	-49.71	0.01069	25	Pass
NV	GFSK	2441	2483.5-2496.5	2485.50200	-50.93	0.00807	25	Pass
NV	GFSK	2441	2496.5-12500	9779.04800	-44.99	0.03170	2.5	Pass
NV	GFSK	2441	2496.5-12500	2616.54200	-51.30	0.00741	2.5	Pass
NV	GFSK	2441	2496.5-12500	4877.33300	-43.46	0.04508	2.5	Pass
NV	GFSK	2441	2496.5-12500	7318.18700	-43.55	0.04416	2.5	Pass

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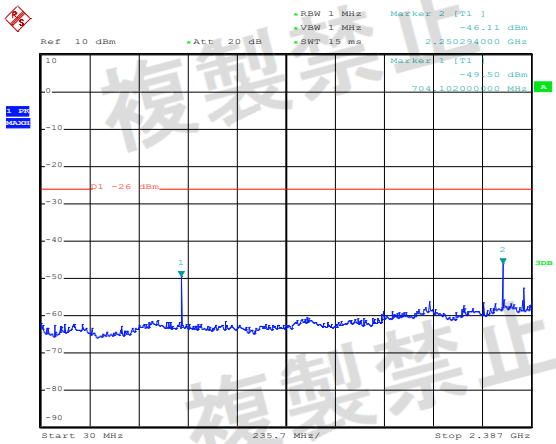
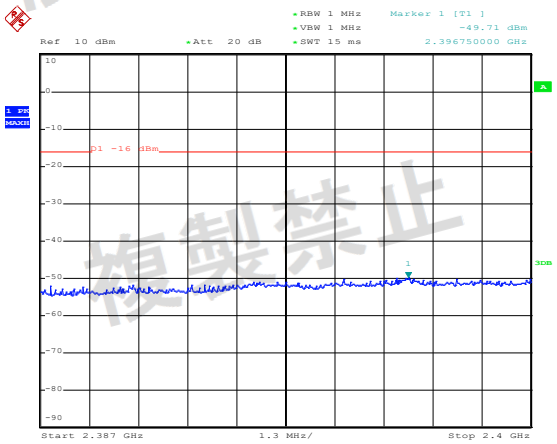
Test Figure:

CH 39- (30 MHz < f ≦ 2387 MHz)



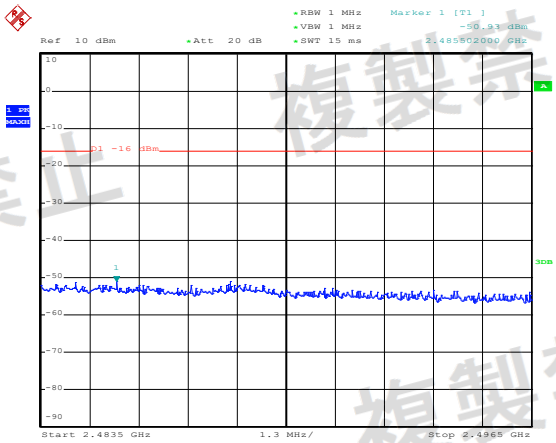
Date: 12.DEC.2025 15:28:20

CH 39- (2387 MHz < f ≦ 2400 MHz)



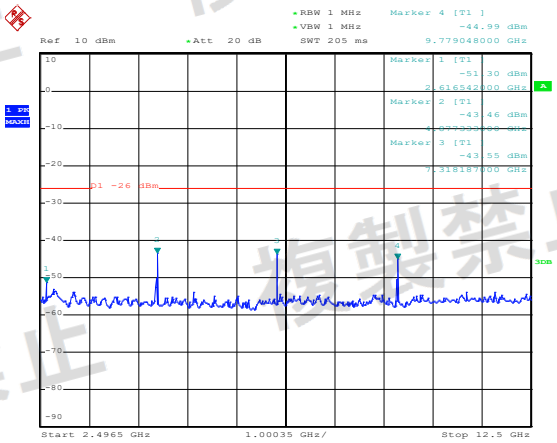
Date: 12.DEC.2025 15:35:41

CH 39- (2483.5 MHz ≦ f < 2496.5 MHz)



Date: 12.DEC.2025 15:37:27

CH 39- (2496.5 MHz ≦ f < 12.5 GHz)



Date: 12.DEC.2025 15:45:01

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EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25℃	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting-**GFSK Mode**		

Test Data:

Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	GFSK	2480	30-2387	2292.72000	-44.82	0.03296	2.5	Pass
NV	GFSK	2480	30-2387	741.841000	-54.45	0.00359	2.5	Pass
NV	GFSK	2480	2387-2400	2396.30800	-55.34	0.00292	25	Pass
NV	GFSK	2480	2483.5-2496.5	2483.50000	-40.78	0.08356	25	Pass
NV	GFSK	2480	2496.5-12500	9919.09700	-42.01	0.06295	2.5	Pass
NV	GFSK	2480	2496.5-12500	2656.55600	-52.05	0.00624	2.5	Pass
NV	GFSK	2480	2496.5-12500	4957.36100	-43.36	0.04613	2.5	Pass
NV	GFSK	2480	2496.5-12500	7438.22900	-43.24	0.04742	2.5	Pass

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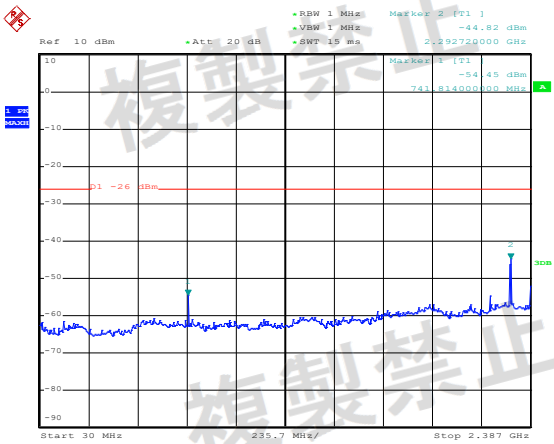
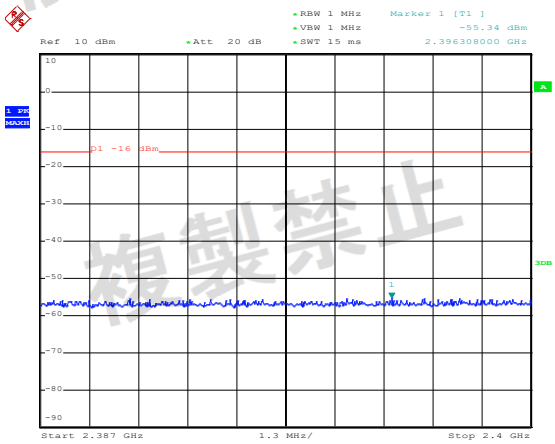
Test Figure:

CH 78- (30 MHz < f ≦ 2387 MHz)



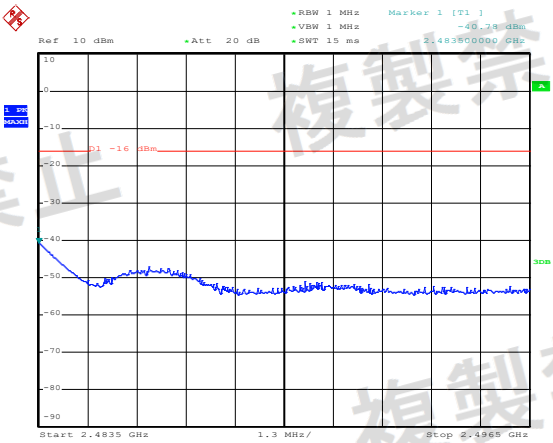
Date: 12.DEC.2025 15:29:36

CH 78- (2387 MHz < f ≦ 2400 MHz)



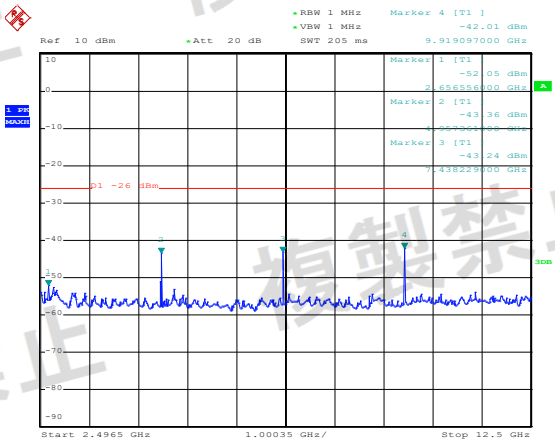
Date: 12.DEC.2025 15:34:49

CH 78- (2483.5 MHz ≦ f < 2496.5 MHz)



Date: 12.DEC.2025 15:38:33

CH 78- (2496.5 MHz ≦ f < 12.5 GHz)



Date: 12.DEC.2025 15:44:20

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EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25℃	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting-Л/4DQPSK Mode		

Test Data:

Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	Л/4DQPSK	2402	30-2387	2212.58200	-47.19	0.01910	2.5	Pass
NV	Л/4DQPSK	2402	30-2387	661.676000	-45.97	0.02529	2.5	Pass
NV	Л/4DQPSK	2402	2387-2400	2400.00000	-20.92	8.09096	25	Pass
NV	Л/4DQPSK	2402	2483.5-2496.5	2484.22800	-54.02	0.00396	25	Pass
NV	Л/4DQPSK	2402	2496.5-12500	9618.99200	-45.34	0.02924	2.5	Pass
NV	Л/4DQPSK	2402	2496.5-12500	2576.52800	-50.29	0.00935	2.5	Pass
NV	Л/4DQPSK	2402	2496.5-12500	4797.30500	-42.42	0.05728	2.5	Pass
NV	Л/4DQPSK	2402	2496.5-12500	7198.14500	-41.26	0.07482	2.5	Pass

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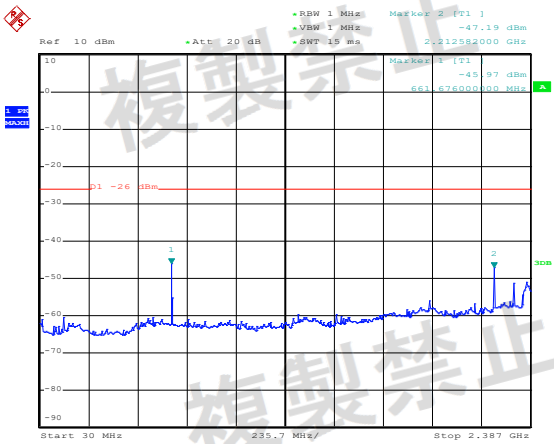
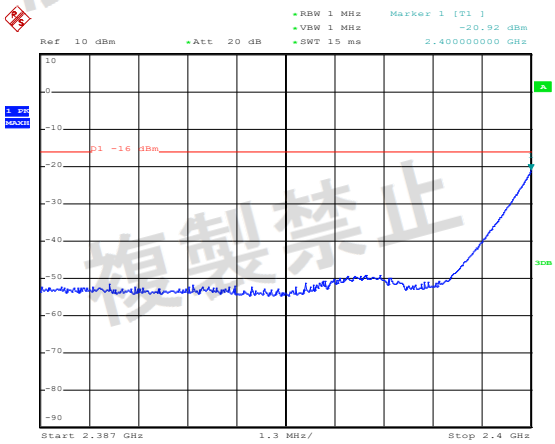
Test Figure:

CH 00- (30 MHz < f ≦ 2387 MHz)



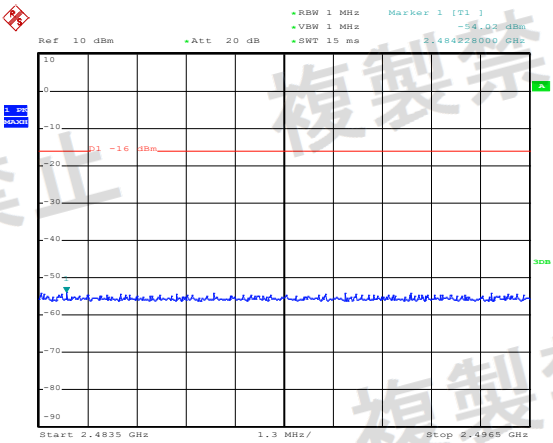
Date: 12.DEC.2025 15:31:39

CH 00- (2387 MHz < f ≦ 2400 MHz)



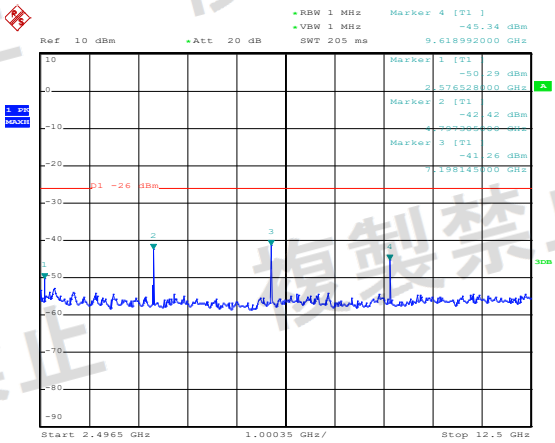
Date: 12.DEC.2025 15:32:38

CH 00- (2483.5 MHz ≦ f < 2496.5 MHz)



Date: 12.DEC.2025 15:40:47

CH 00- (2496.5 MHz ≦ f < 12.5 GHz)



Date: 12.DEC.2025 15:41:48

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EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25℃	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting-Л/4DQPSK Mode		

Test Data:

Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	Л/4DQPSK	2441	30-2387	2250.29400	-46.56	0.02208	2.5	Pass
NV	Л/4DQPSK	2441	30-2387	704.102000	-50.45	0.00902	2.5	Pass
NV	Л/4DQPSK	2441	2387-2400	2396.59400	-49.54	0.01112	25	Pass
NV	Л/4DQPSK	2441	2483.5-2496.5	2483.94200	-50.88	0.00817	25	Pass
NV	Л/4DQPSK	2441	2496.5-12500	9779.04800	-44.59	0.03475	2.5	Pass
NV	Л/4DQPSK	2441	2496.5-12500	2616.54200	-50.98	0.00798	2.5	Pass
NV	Л/4DQPSK	2441	2496.5-12500	4877.33300	-43.69	0.04276	2.5	Pass
NV	Л/4DQPSK	2441	2496.5-12500	7318.18700	-43.28	0.04699	2.5	Pass

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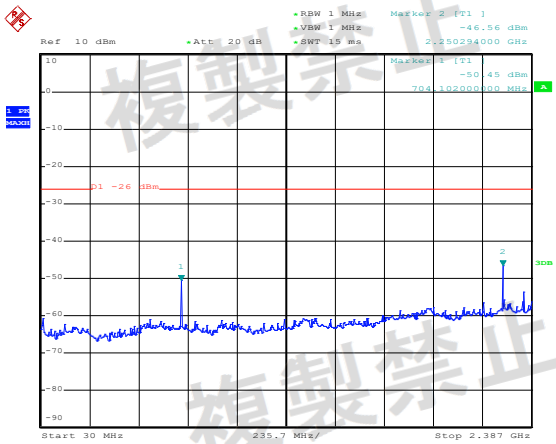
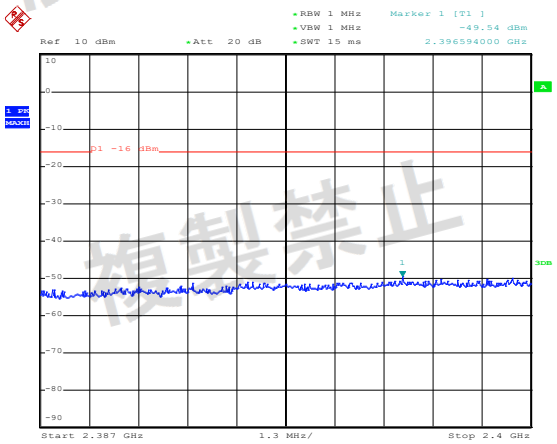
Test Figure:

CH 39- (1000 MHz < f ≦ 2387 MHz)



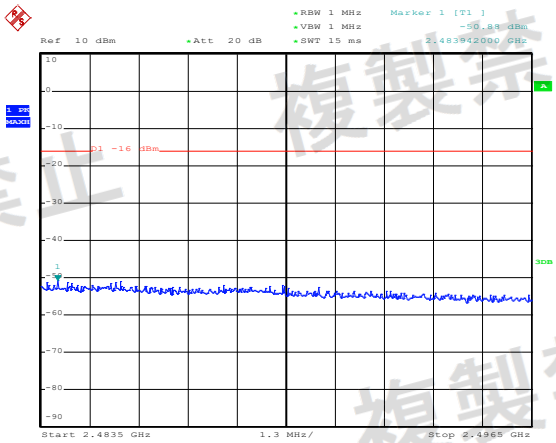
Date: 12.DEC.2025 15:30:38

CH 39- (2387 MHz < f ≦ 2400 MHz)



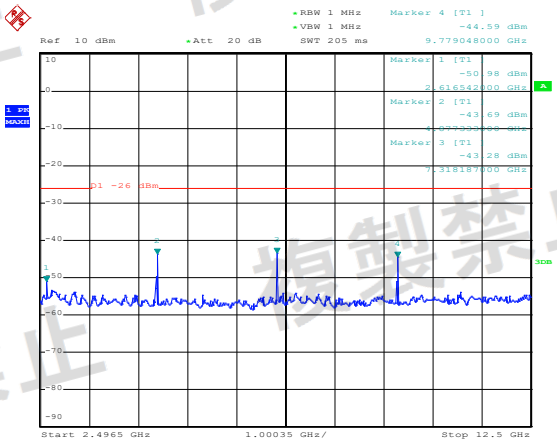
Date: 12.DEC.2025 15:33:26

CH 39- (2483.5 MHz ≦ f < 2496.5 MHz)



Date: 12.DEC.2025 15:39:59

CH 39- (2496.5 MHz ≦ f < 12.5 GHz)



Date: 12.DEC.2025 15:42:51

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EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25℃	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting-Л/4DQPSK Mode		

Test Data:

Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μ W/MHz)	Limit	P/F
NV	Л/4DQPSK	2480	30-2387	2292.72000	-45.11	0.03083	2.5	Pass
NV	Л/4DQPSK	2480	30-2387	741.814000	-54.86	0.00327	2.5	Pass
NV	Л/4DQPSK	2480	2387-2400	2398.88200	-54.10	0.00389	25	Pass
NV	Л/4DQPSK	2480	2483.5-2496.5	2483.50000	-39.67	0.10789	25	Pass
NV	Л/4DQPSK	2480	2496.5-12500	9919.09700	-41.91	0.06442	2.5	Pass
NV	Л/4DQPSK	2480	2496.5-12500	2656.55600	-50.91	0.00811	2.5	Pass
NV	Л/4DQPSK	2480	2496.5-12500	4957.36100	-42.35	0.05821	2.5	Pass
NV	Л/4DQPSK	2480	2496.5-12500	7438.22900	-43.32	0.04656	2.5	Pass

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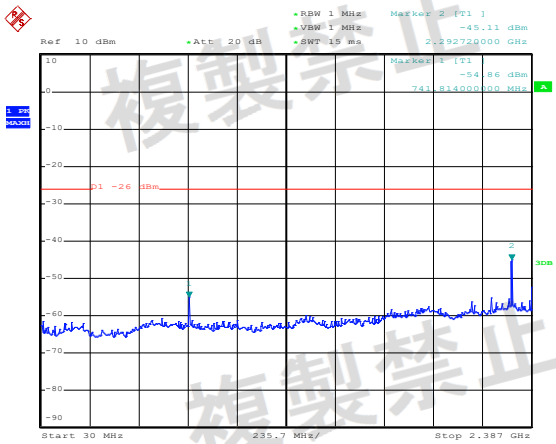
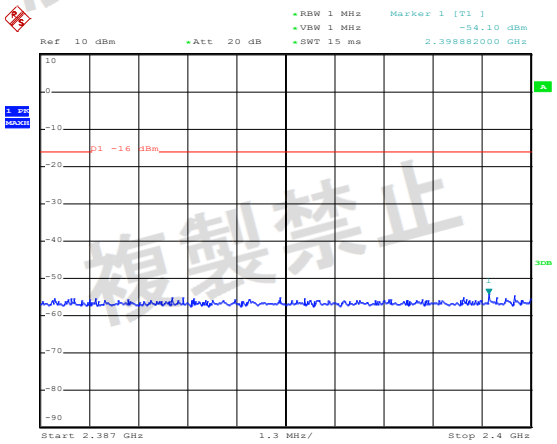
Test Figure:

CH 78- (30 MHz < f ≦ 2387 MHz)



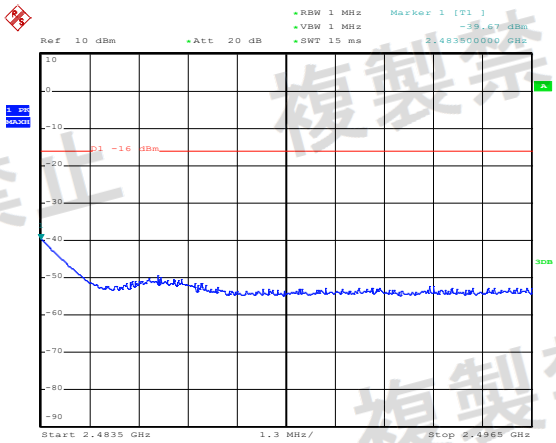
Date: 12.DEC.2025 15:30:14

CH 78- (2387 MHz < f ≦ 2400 MHz)



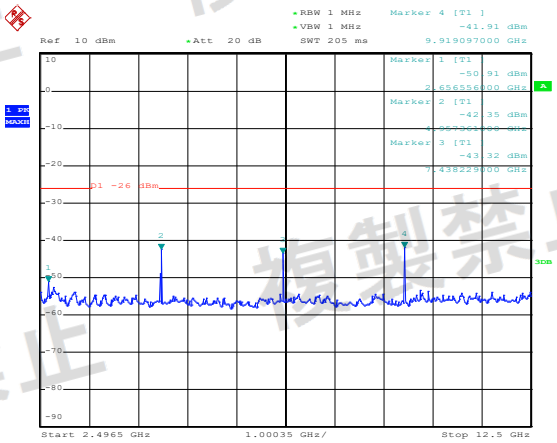
Date: 12.DEC.2025 15:34:12

CH 78- (2483.5 MHz ≦ f < 2496.5 MHz)



Date: 12.DEC.2025 15:39:23

CH 78- (2496.5 MHz ≦ f < 12.5 GHz)



Date: 12.DEC.2025 15:43:47

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EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25℃	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting-**8DPSK Mode**		

Test Data:

Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	8DPSK	2402	30-2387	2212.58200	-47.62	0.01730	2.5	Pass
NV	8DPSK	2402	30-2387	661.676000	-46.40	0.02291	2.5	Pass
NV	8DPSK	2402	2387-2400	2400.00000	-21.16	7.65597	25	Pass
NV	8DPSK	2402	2483.5-2496.5	2486.98400	-54.37	0.00366	25	Pass
NV	8DPSK	2402	2496.5-12500	4797.30500	-42.46	0.05675	2.5	Pass
NV	8DPSK	2402	2496.5-12500	2576.52800	-49.91	0.01021	2.5	Pass
NV	8DPSK	2402	2496.5-12500	9618.99200	-45.18	0.03034	2.5	Pass
NV	8DPSK	2402	2496.5-12500	7198.14500	-41.87	0.06501	2.5	Pass

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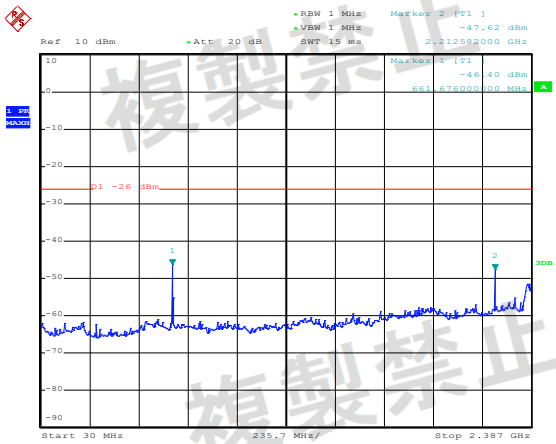
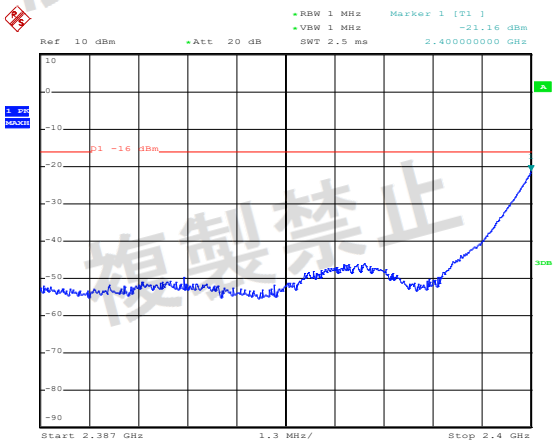
Test Figure:

CH 00- (30 MHz < f ≦ 2387 MHz)



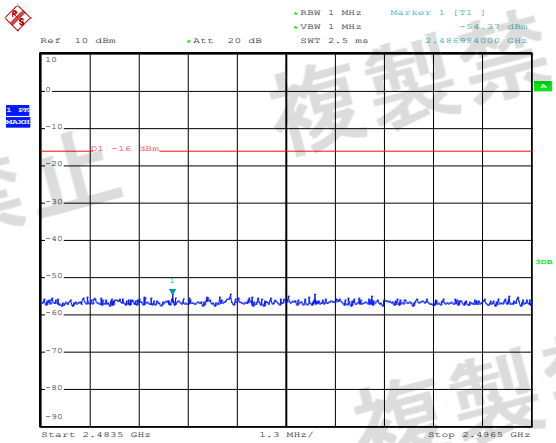
Date: 12.DEC.2025 16:48:03

CH 00- (2387 MHz < f ≦ 2400 MHz)



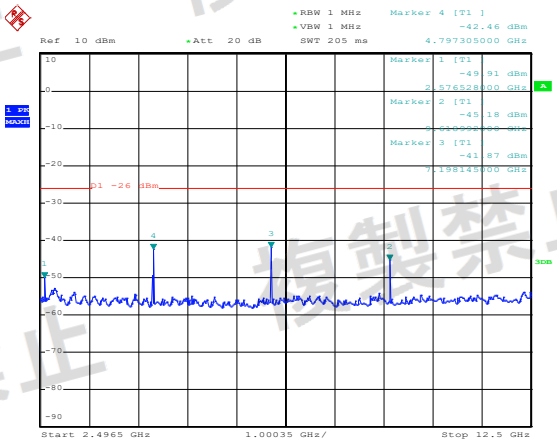
Date: 12.DEC.2025 16:51:02

CH 00- (2483.5 MHz ≦ f < 2496.5 MHz)



Date: 12.DEC.2025 16:51:28

CH 00- (2496.5 MHz ≦ f < 12.5 GHz)



Date: 12.DEC.2025 16:54:50

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EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25℃	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting-**8DPSK Mode**		

Test Data:

Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	8DPSK	2441	30-2387	2250.29400	-46.75	0.02113	2.5	Pass
NV	8DPSK	2441	30-2387	704.102000	-49.87	0.01030	2.5	Pass
NV	8DPSK	2441	2387-2400	2399.68800	-50.75	0.00841	25	Pass
NV	8DPSK	2441	2483.5-2496.5	2485.81400	-50.50	0.00891	25	Pass
NV	8DPSK	2441	2496.5-12500	4877.33300	-43.51	0.04457	2.5	Pass
NV	8DPSK	2441	2496.5-12500	2616.54200	-51.84	0.00655	2.5	Pass
NV	8DPSK	2441	2496.5-12500	9779.04800	-44.92	0.03221	2.5	Pass
NV	8DPSK	2441	2496.5-12500	7318.18700	-43.90	0.04074	2.5	Pass

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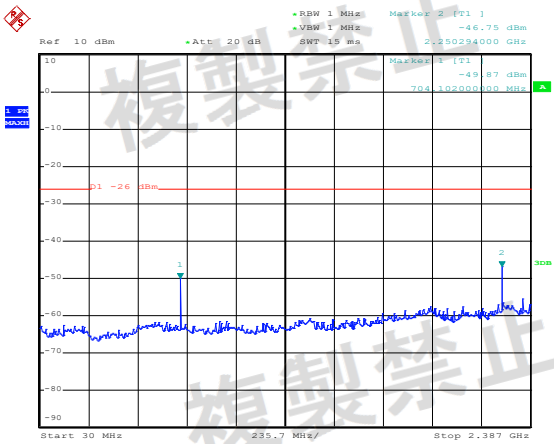
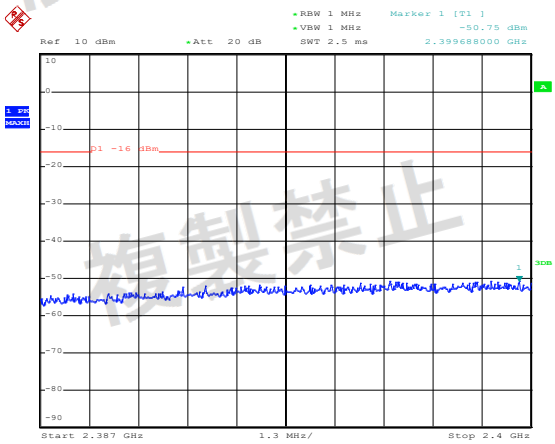
Test Figure:

CH 39- (30 MHz < f ≦ 2387 MHz)



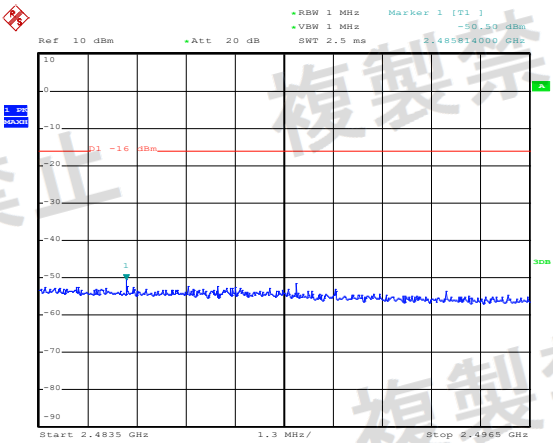
Date: 12.DEC.2025 16:48:56

CH 39- (2387 MHz < f ≦ 2400 MHz)



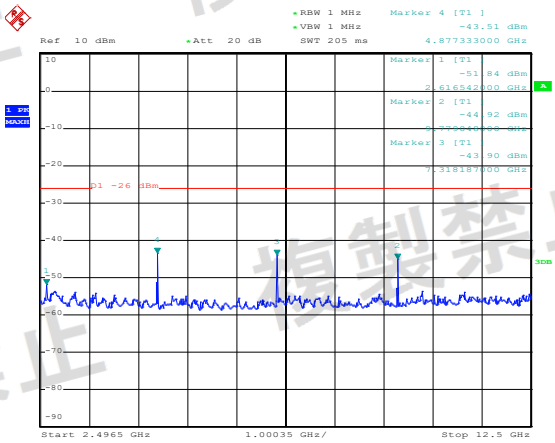
Date: 12.DEC.2025 16:50:24

CH 39- (2483.5 MHz ≦ f < 2496.5 MHz)



Date: 12.DEC.2025 16:52:02

CH 39- (2496.5 MHz ≦ f < 12.5 GHz)



Date: 12.DEC.2025 16:53:55

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EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25℃	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting-**8DPSK Mode**		

Test Data:

Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	8DPSK	2480	30-2387	2292.72000	-45.85	0.02600	2.5	Pass
NV	8DPSK	2480	30-2387	741.814000	-55.72	0.00268	2.5	Pass
NV	8DPSK	2480	2387-2400	2387.15600	-55.50	0.00282	25	Pass
NV	8DPSK	2480	2483.5-2496.5	2483.50000	-39.45	0.11350	25	Pass
NV	8DPSK	2480	2496.5-12500	4957.36100	-43.13	0.04864	2.5	Pass
NV	8DPSK	2480	2496.5-12500	2656.55600	-51.54	0.00701	2.5	Pass
NV	8DPSK	2480	2496.5-12500	9919.09700	-41.74	0.06699	2.5	Pass
NV	8DPSK	2480	2496.5-12500	7438.22900	-43.17	0.04819	2.5	Pass

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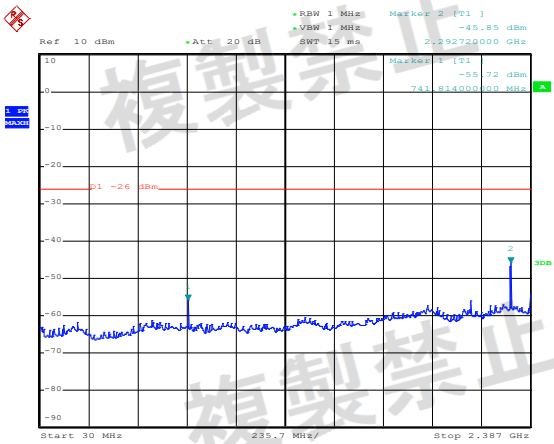
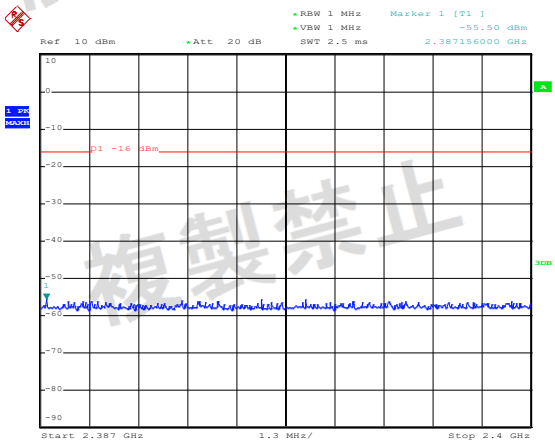
Test Figure:

CH 78- (30 MHz < f ≦ 2387 MHz)



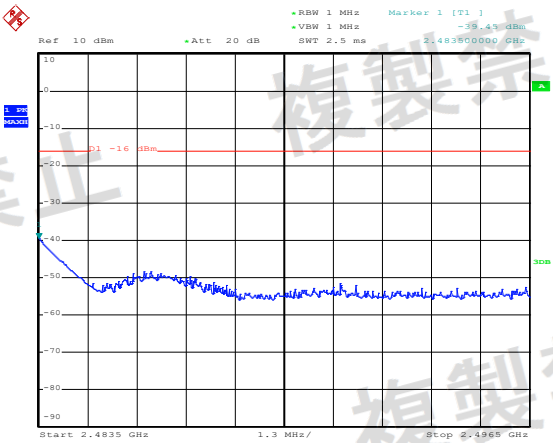
Date: 12.DEC.2025 16:49:19

CH 78- (2387 MHz < f ≦ 2400 MHz)



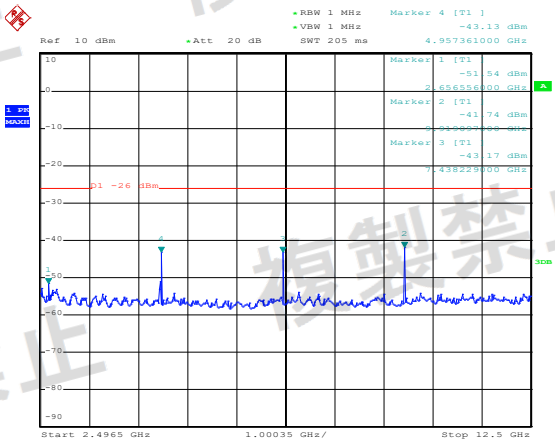
Date: 12.DEC.2025 16:49:51

CH 78- (2483.5 MHz ≦ f < 2496.5 MHz)



Date: 12.DEC.2025 16:52:36

CH 78- (2496.5 MHz ≦ f < 12.5 GHz)



Date: 12.DEC.2025 16:55:31

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11.0 Hopping Frequency Dwell Time (FH employed)

11.1 Limit

Item	Limits
Hopping Freq. Dwell Time	≦ 0.4 sec

11.2 Measuring Instrument and Setting

Please refer to section 5 in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RB	1 MHz
VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep	Continuous

11.3 Test Procedures

a. The transmitter output (antenna port) was connected to the spectrum analyzer
b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
d. Sweep Time is more than once pulse time.
e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
f. Measure the maximum time duration of one single pulse.
g. Set the EUT packet transmitting.
h. Measure the maximum time duration of one single pulse.
i. Dwell time = [spreading rate/79] x duty-cycle x 0.4 seconds.

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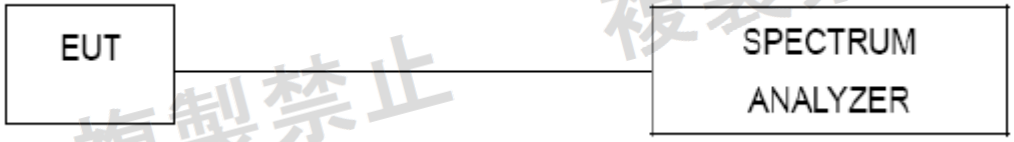
11.4 Test Setup Layout



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11.5 Test Result

EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25℃	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Test Mode:	Hopping On-**GFSK Mode**		

90% Spread BW (MHz)	Spreading Rate	On Time of 1 Burst (ms)	1 Burst cycle (ms)	Hopping Channels	Dwell Time (s)	Limit (s)	**Type**
69.14	69.14	0.440	1.260	79	0.122	0.4	**DH1**
69.14	69.14	1.700	2.500	79	0.238	0.4	**DH3**
69.14	69.14	2.940	3.760	79	0.274	0.4	**DH5**

Remark: Dwell time=0.4 x (spreading rate) *(on time of 1 burst)/ [(burst cycle) *(No. of hopping channels)]

Spreading rate= [spread bandwidth (actual measurement value)]/ transmission rate

Transmission rate: GFSK-1MHz, π/4-DQPSK-2MHz, 8DPSK-3MHz

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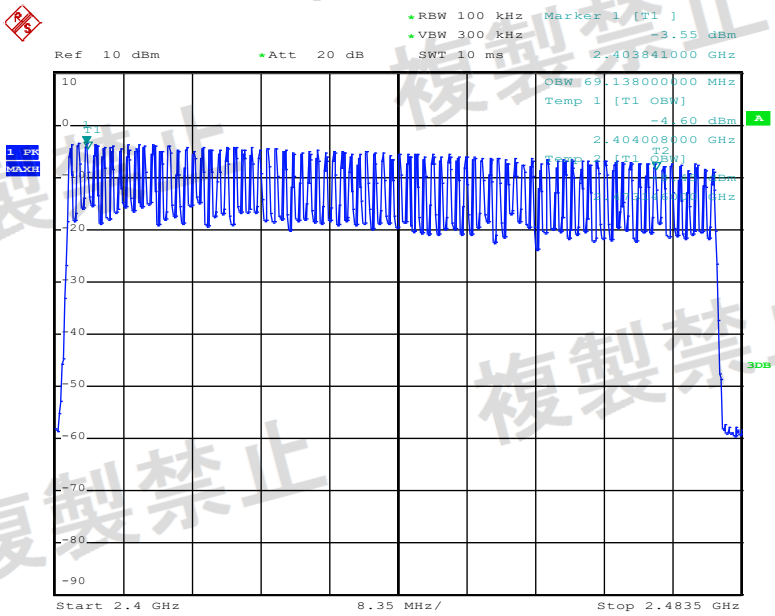
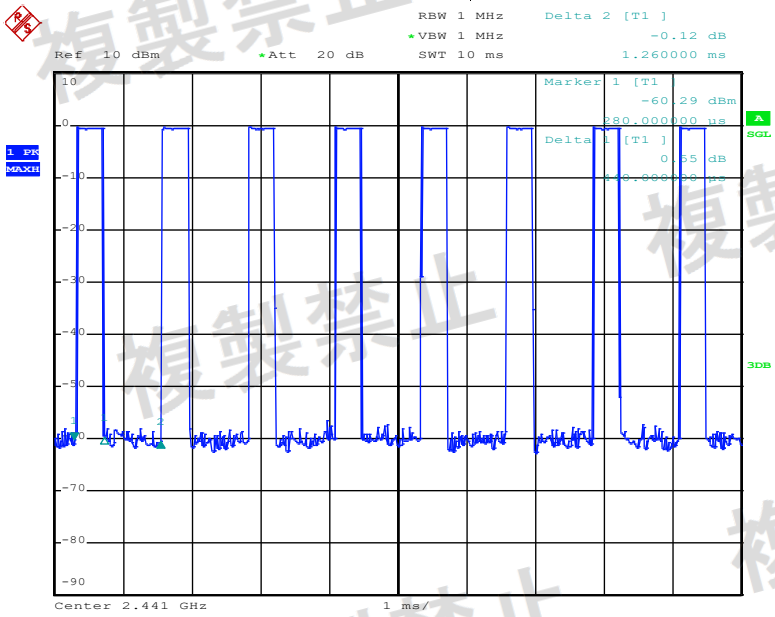
Spread Bandwidth



Date: 12.DEC.2025 17:33:49

DH1



Date: 12.DEC.2025 15:16:26

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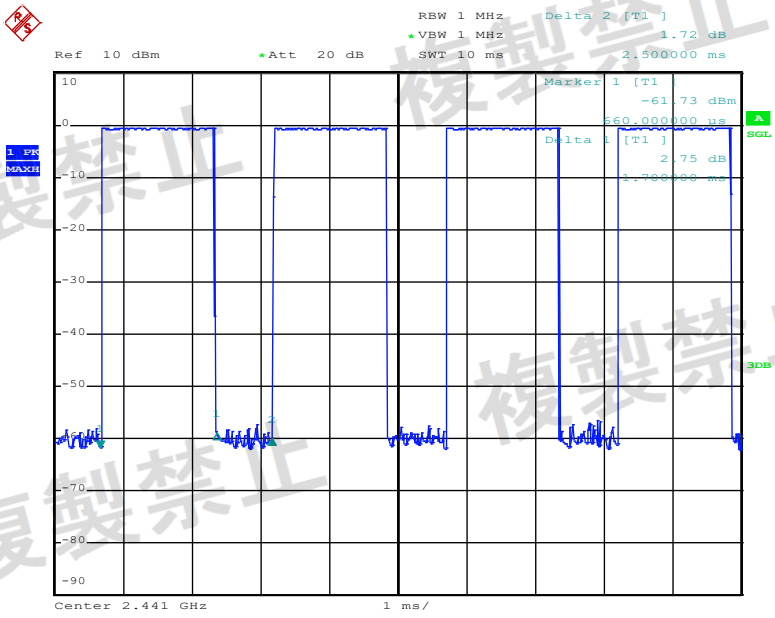
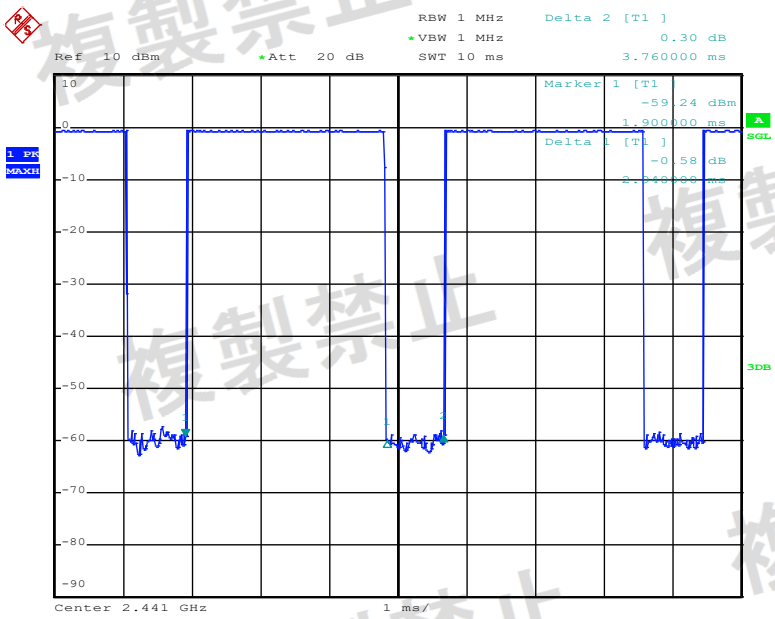
DH3



Date: 12.DEC.2025 15:17:40

DH5



Date: 12.DEC.2025 15:18:15

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EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25℃	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Test Mode:	Hopping On-Л/4DQPSK Mode		

90% Spread BW (MHz)	Spreading Rate	On Time of 1 Burst (ms)	1 Burst cycle (ms)	Hopping Channels	Dwell Time (s)	Limit (s)	Type
69.64	34.82	0.440	1.240	79	0.063	0.4	2DH1
69.64	34.82	1.700	2.520	79	0.119	0.4	2DH3
69.64	34.82	2.960	3.760	79	0.139	0.4	2DH5

Remark: Dwell time=0.4 x (spreading rate)*(on time of 1 burst)/ [(burst cycle)*(No. of hopping channels)]
Spreading rate= [spread bandwidth (actual measurement value)]/ transmission rate
Transmission rate: GFSK-1MHz, π/4-DQPSK-2MHz, 8DPSK-3MHz

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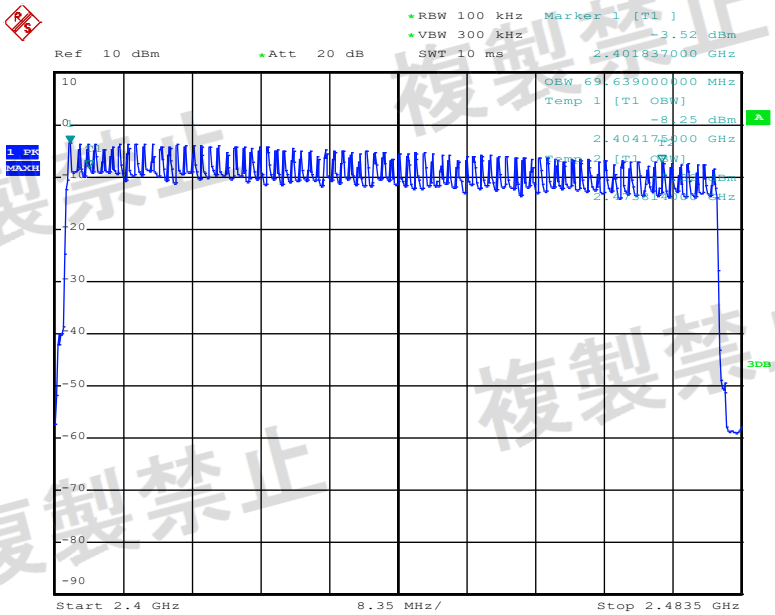
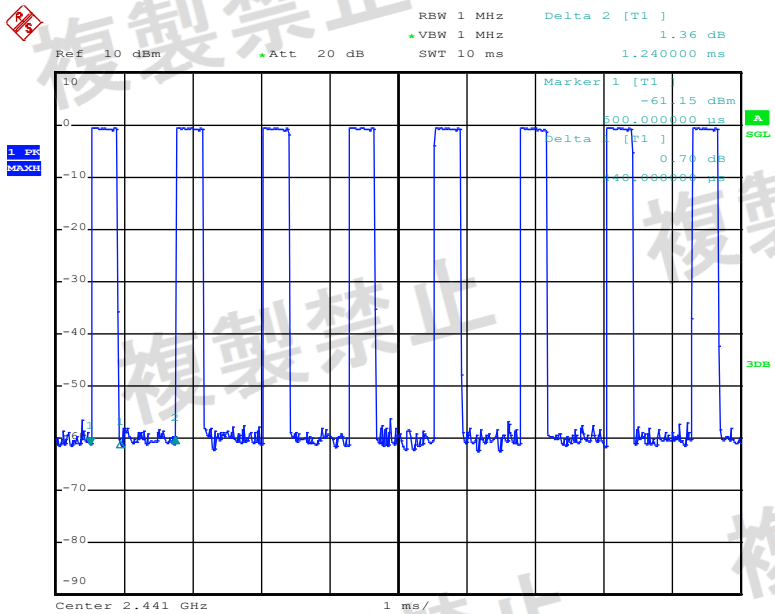
Spread Bandwidth



Date: 12.DEC.2025 17:27:40

2DH1



Date: 12.DEC.2025 15:18:48

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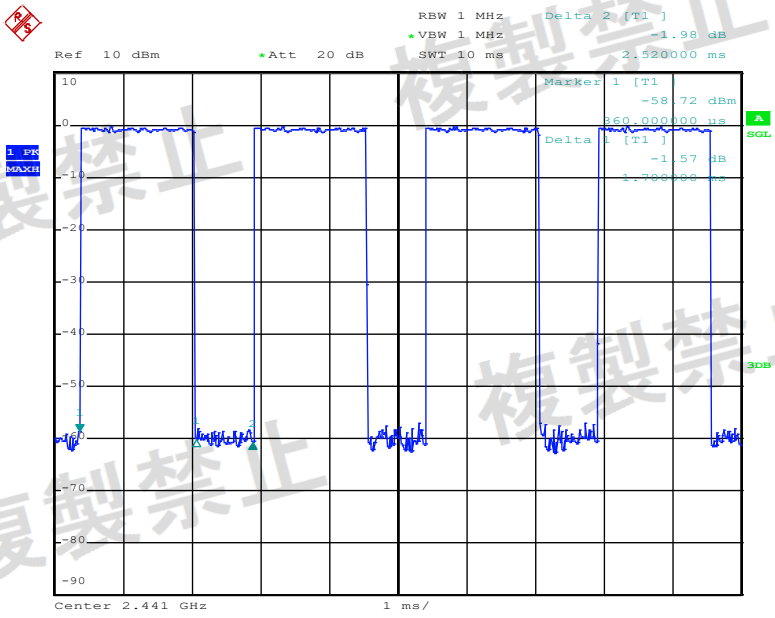
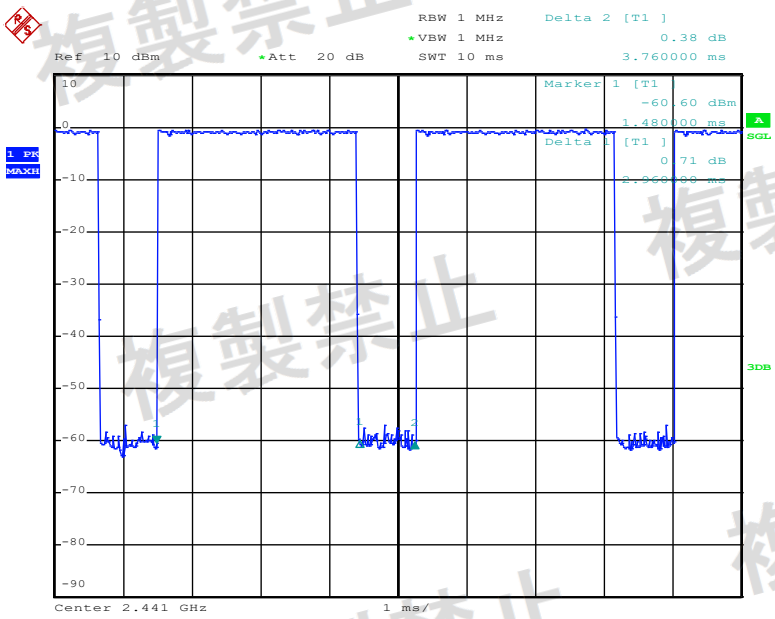
2DH3



Date: 12.DEC.2025 15:19:45

2DH5



Date: 12.DEC.2025 15:20:28

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EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25℃	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Test Mode:	Hopping On-**8DPSK Mode**		

90% Spread BW (MHz)	Spreading Rate	On Time of 1 Burst (ms)	1 Burst cycle (ms)	Hopping Channels	Dwell Time (s)	Limit (s)	**Type**
69.31	23.10	0.440	1.260	79	0.041	0.4	**3DH1**
69.31	23.10	1.700	2.500	79	0.080	0.4	**3DH3**
69.31	23.10	2.960	3.760	79	0.092	0.4	**3DH5**

Remark: Dwell time=0.4 x (spreading rate)*(on time of 1 burst)/ [(burst cycle)*(No. of hopping channels)]
Spreading rate= [spread bandwidth (actual measurement value)]/ transmission rate
Transmission rate: GFSK-1MHz, π/4-DQPSK-2MHz, 8DPSK-3MHz

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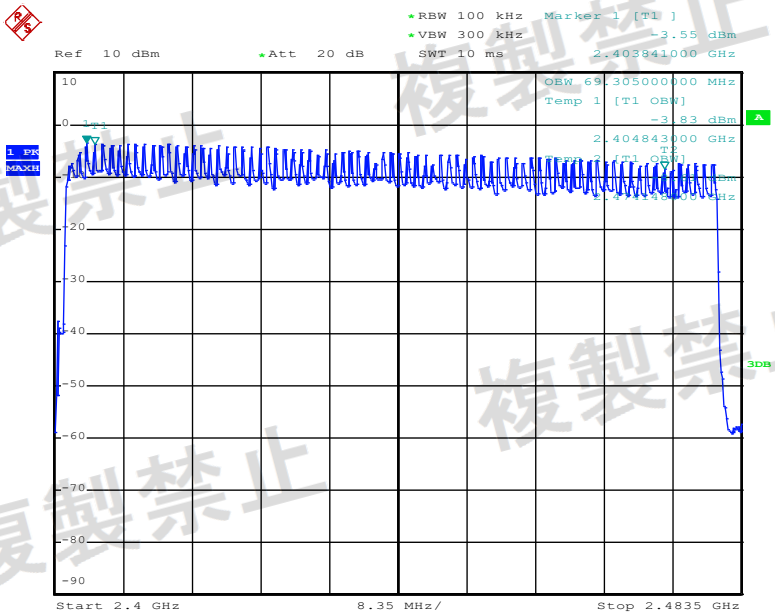
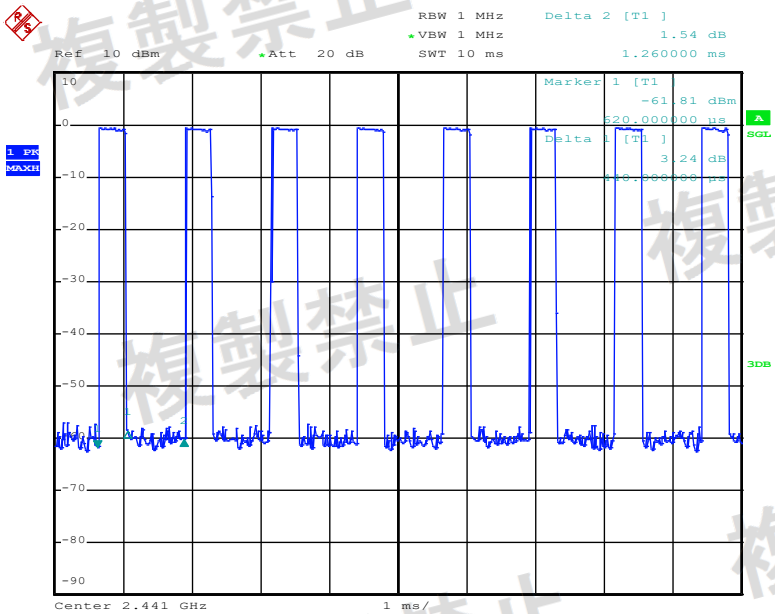
Spread Bandwidth



Date: 12.DEC.2025 17:24:26

3DH1



Date: 12.DEC.2025 16:46:06

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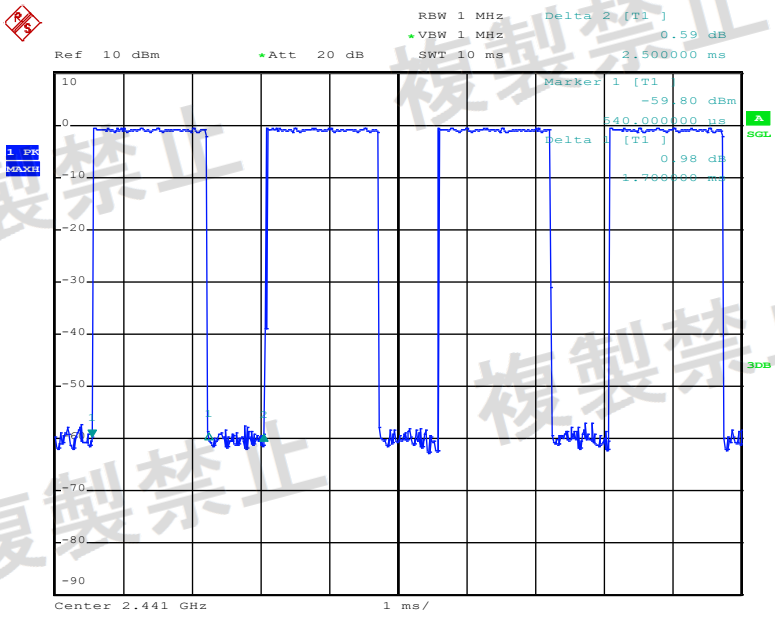
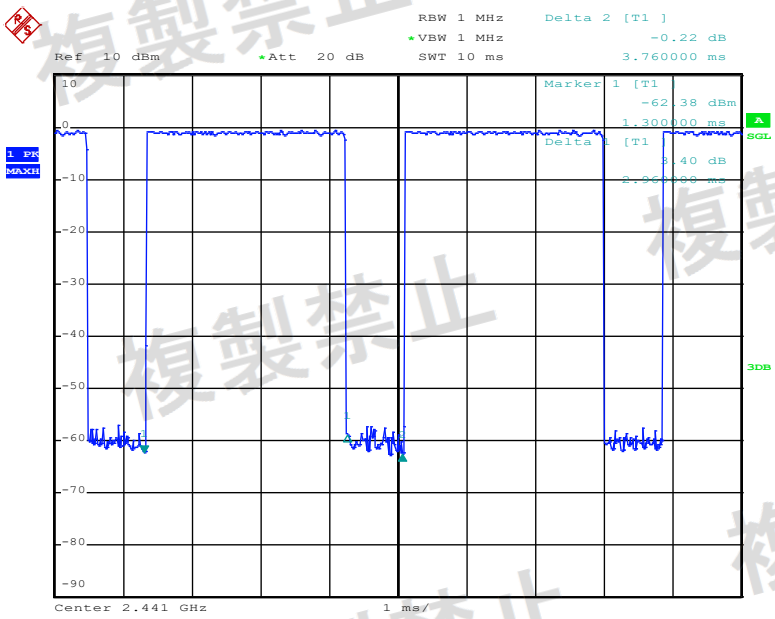
3DH3



Date: 12.DEC.2025 16:46:45

3DH5



Date: 12.DEC.2025 16:47:15

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12. Carrier Sense

Not applicable

13. Interference prevention function

Radio interface prevention function

	Normal voltage	Low voltage	High voltage
Result	Good	Good	Good

Test Result: OK

13.1 Limit

ltem	Limits
identification Code	⩾48 bits

Measuring ID code Software
MAC IP List: MAC Scan

13.2 Test Procedure

1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes form EUT. b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code: a. Transmit the predetermined identification codes form the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes form the counterpart. d. check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

13.3 Conditions of Equipment under Test

Required normal mode of the applicable equipment (EUT)

13.4 Test Result

The radio equipment has an identification code. A verification of this code is done before a communication channel is established

MAC Address: AE: D3: CB: EF: BA: FF

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14. Secondary Radiated Emission Strength

14.1 Limit

Item	Limits
RX Spurious Emission:	≦4nW (-54dBm) (f<1GHz)
	≦20nW (-47dBm) (1GHz≦f)

14.2 Measuring Instrument and Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

14.3 Test Procedures

1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) /
   AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
4. SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and

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stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW

5. If power level of lower emissions are more than 1/10 of limit (.0.4nW for f < 1GHz, 2nW for f >= 1GHz), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

Note 1: Pre-test the EUT in all voltage mode at the 100V~, 110V~ and 90V~ and conducted to determine the worst-case mode, only the worst-case results (100V~) are recorded in this report.
The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation (±1%) against input voltage fluctuation (±10%). So, all measurements were conducted at only rated voltage 100V~.

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14.4 Test Result

EUT：	Monitor	Test Date:	December 12, 2025
Temperature:	25℃	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Receiving Mode-GFSK		

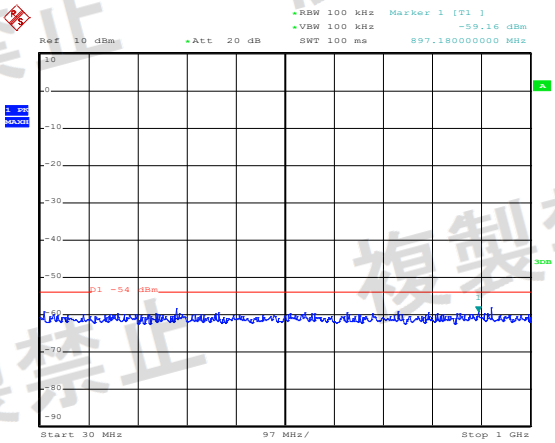
CH00-2402MHz

Test Data:

Test Data of Secondary Radiated Emission Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm)	Result (nW)	Limit	P/F
NV	GFSK	2402	30-1000	897.180000	-59.16	1.2134	4nW	Pass
NV	GFSK	2402	1000-12500	2748.00000	-53.76	4.2073	20nW	Pass

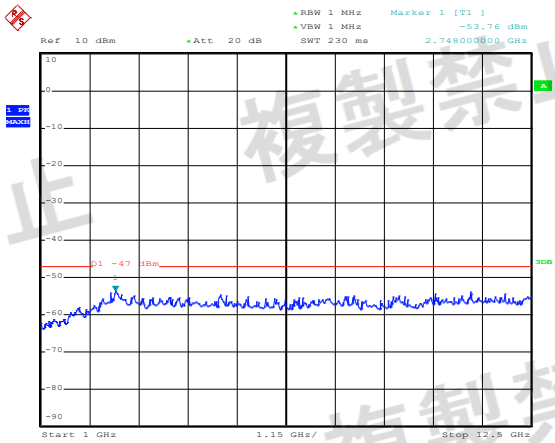
Test Figure:

RX- (30 MHz ≦ f < 1000 MHz)



Date: 12.DEC.2025 15:48:06

RX- (1000 MHz ≦ f < 12500 MHz)



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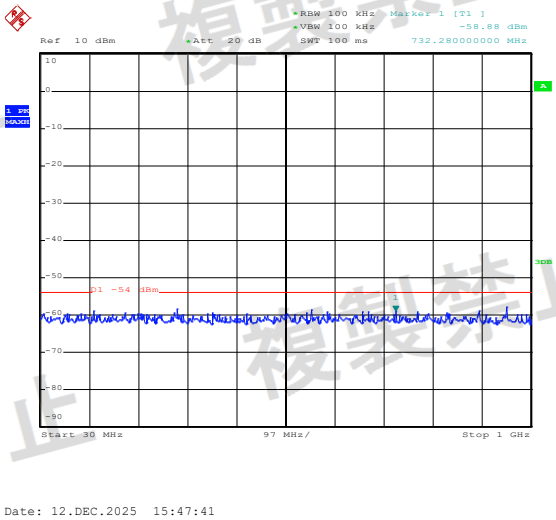
CH39-2441MHz

Test Data:

Test Data of Secondary Radiated Emission Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm)	Result (nW)	Limit	P/F
NV	GFSK	2441	30-1000	732.280000	-58.88	1.2942	4nW	Pass
NV	GFSK	2441	1000-12500	2771.00000	-53.63	4.3351	20nW	Pass

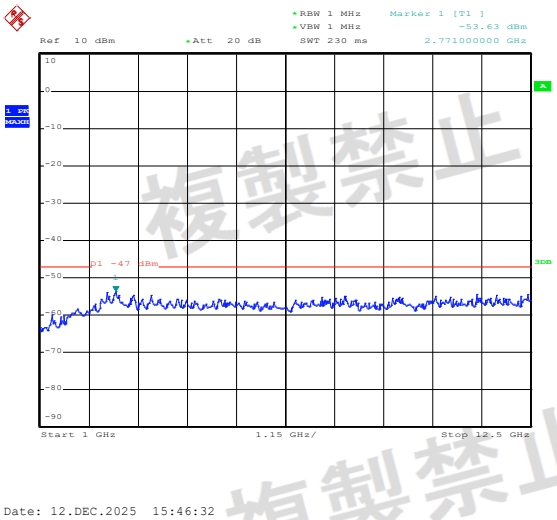
Test Figure:

RX- (30 MHz ≦ f < 1000 MHz)



Date: 12.DEC.2025 15:47:41

RX- (1000 MHz ≦ f < 12500 MHz)



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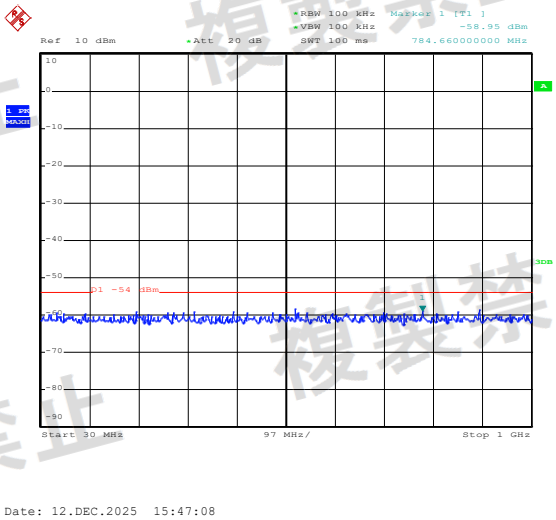
CH78-2480MHz

Test Data:

Test Data of Secondary Radiated Emission Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm)	Result (nW)	Limit	P/F
NV	GFSK	2480	30-1000	784.660000	-58.95	1.2735	4nW	Pass
NV	GFSK	2480	1000-12500	2794.00000	-52.78	5.2723	20nW	Pass

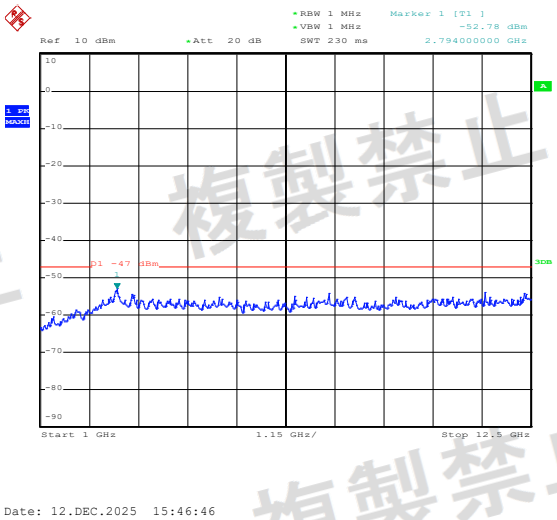
Test Figure:

RX- (30 MHz ≦ f < 1000 MHz)



Date: 12.DEC.2025 15:47:08

RX- (1000 MHz ≦ f < 12500 MHz)



Date: 12.DEC.2025 15:46:46

Note: All modulation types were tested and only the worst cases were recorded in the test report, GFSK was the worst case.

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15 Transmitting Antenna Absolute Gain

15.1 Limit

Item	Limits
EIRP Power Density	≦16.91dBm/MHz (FH form 2427 - 2470.75 MHz) ≦22.14dBm/MHz (OFDM,DS from 2400~2483.5MHz) ≦22.14dBm (Other from 2400~2483.5MHz)
Note: This test item is not applied for radio equipment with equivalent isotropic radiation power lower than 12.14dBm/MHz, but Antenna Power(Conducted) limit is 10 mW/MHz (10 dBm/MHz), So the test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less	

15.2 Measuring Instrument and Setting

Please refer to section 5 in this report. The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB/VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

15.3 Test Procedures

1. Set EUT ad measuring antenna at the same height and roughly facing each other.
2. Move the measuring antenna height up and down within ± 50cm of EUT height and swing it to find the maximum output of the measuring antenna. The output level at the spectrum analyzer is read sa "E".
3. Remove the EUT from the turn table and put the replacing antenna facing to measuring antenna at same height. Set the standard signal generator (SSG) at

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same frequency and transmit on then receive the signal

4. Swing the replacing antenna give a maximum receiving level.
5. Move the measuring antenna height up and down within ± 50cm of replacing antenna height and swing it to find the maximum receiving level.
6. Set SSG output power at Pt to give the equivalent output level of "E" or caluate Pt with SSG output which gives the nearest of "E" and difference (± 1dB). Record the Pt.
7. Calculate EIRP by the formula below EIRP = Gt – L + Pt.
   Gt: gain of replacing antenna (dBi)
   L: feeder loss between SSG and replacing antenna
   Pt: Output power of the SSG
8. If the antenna for the EUT has circular polarization, sum of V-field and H-field will be result if measuring antenna is linear polarization.

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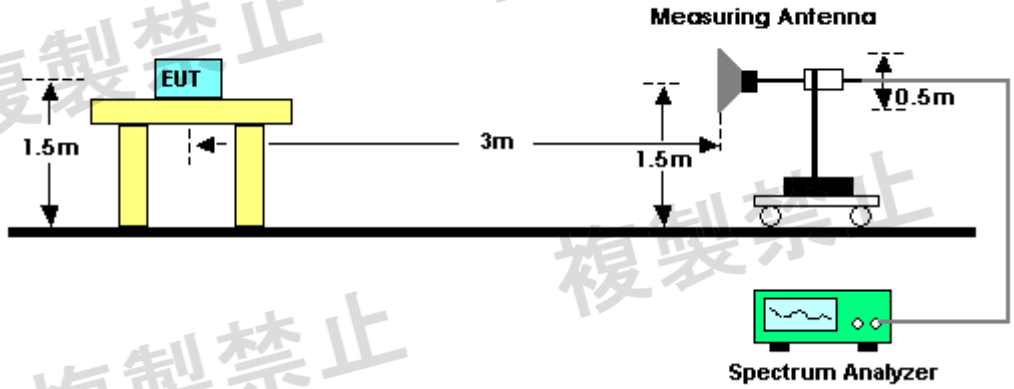
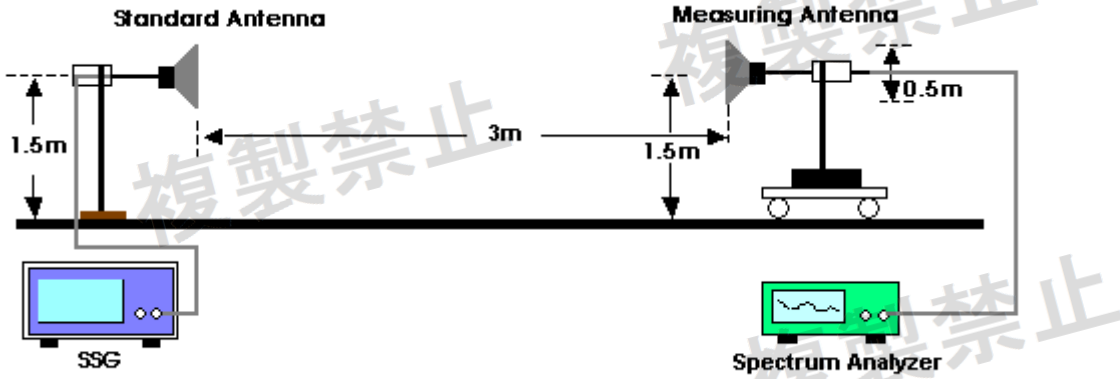
15.4 Test Setup Layout

For EUT radiation measurement



For standard antenna measurement



15.6 Test Deviation

There is no deviation with the original standard.

15.7 EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

15.8 Result of Transmission Antenna Gain

Note: It is unnecessary to testing, when a E.I.R.P. is less than the variable E.I.R.P. limit of minimum (DSSS: 12.14dBm/MHz or less, FHSS (2427 - 2470.75 MHz) :6.91dBm/MHz or less, etc.)"

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16. Half Power Beam Angle (Radiation angle of antenna)

16.1 Limit

Item	Limits
3dB antenna beam width	HPBA (degree) = 360 ∕ A (antilogarithm) A = E.I.R.P. / (2.14dBi + "Antenna Power (limit)" of each modulation method& OBW System) 1 ≦ A (Shall be 1 when A is lower than 1.)
Note: It is unnecessary to testing, when a E.I.R.P. is less than the variable E.I.R.P. limit of minimum (DSSS: 12.14dBm/MHz or less, FHSS (2427 - 2470.75 MHz) :6.91dBm/MHz or less, etc.)".	

16.2 Measuring Instrument and Setting

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RB	1 MHz
VB	1 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

16.3 Test Procedures

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with condition in section 4.7.2 and tune reference level to observe receiving signal position.
3. Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.

The report refers only to the sample tested and does not apply to the bulk.
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4. Move the measuring antenna height up and down within ± 50cm of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E"
5. Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
6. Calculate 3dB antenna beam width by the formula below 360/A (If A<1; then A=1).
   A = {EIRP Power [mW] / 16.36 for DS, OFDM} or
   A = {EIRP Power [mW] / 4.9 for FH}

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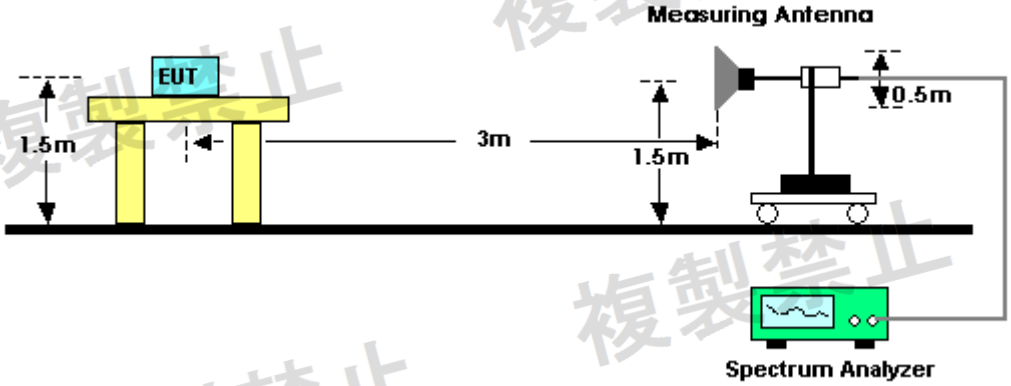
16.4 Test Setup Layout



16.5 Test Deviation

There is no deviation with the original standard.

16.6 EUT Operation During Test

The EUT was programmed to be in continuously transmitting mode.

16.7 Test Result OF Transmission Radiation Angel Width (3dB Beamwidth)

Note: It is unnecessary to testing, when a E.I.R.P. is less than the variable E.I.R.P. limit of minimum (DSSS: 12.14dBm/MHz or less, FHSS (2427 - 2470.75 MHz) :6.91dBm/MHz or less, etc.)"

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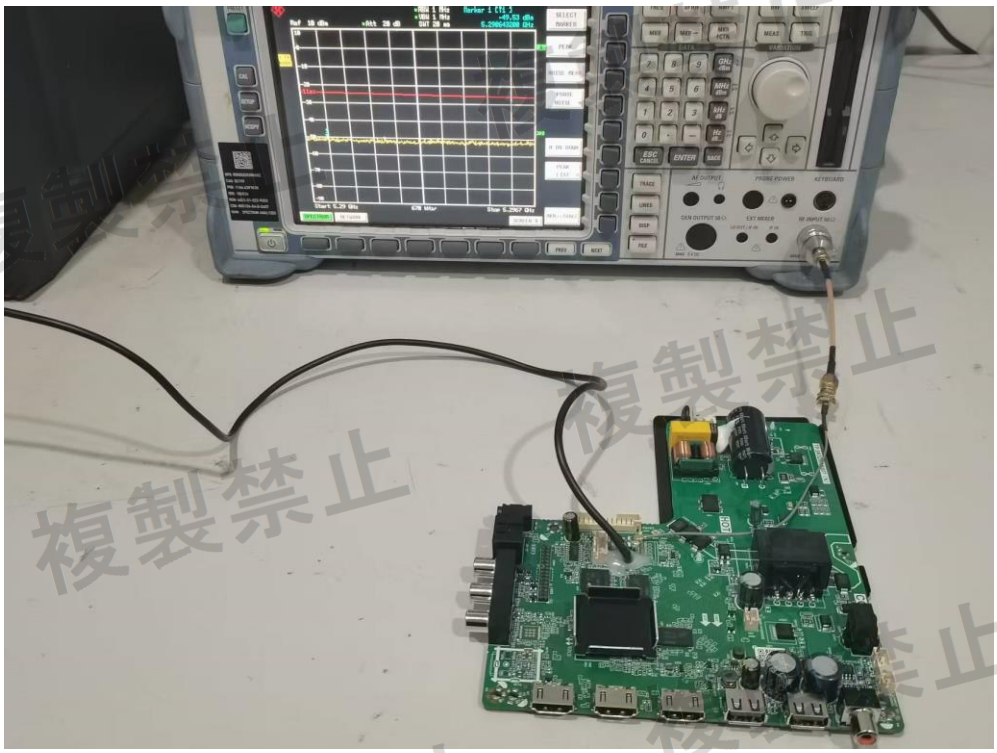
Test Setup Photos



Photographs – EUT

Please refer test report TWN2511838-01E.

--End of Report--

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