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Test Report No.: RJ2507WDG0179-1



TEST REPORT

Applicant	LUMENVIBE TECH LIMITED
Address	FLAT 609, TIN TUN HSE, TIN KING EST, TUEN MUN HONGKONG

Manufacturer or Supplier	LUMENVIBE TECH LIMITED	
Address	FLAT 609, TIN TUN HSE, TIN KING EST, TUEN MUN HONGKONG	
Product	Projector	
Brand Name	BOLDEVER	
Model	E25	
Additional Model & Model Difference	E21, E22, E23; see items 2.1	
Date of tests	Aug. 01, 2025 ~ Aug. 11, 2025	

The tests have been carried out according to the requirements of the following standards:

☒ ARIB STD-T66, Article 2 Section 1 Item 19, MIC Notice No.88 Appendix No.43

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Prepared by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department

Date: Aug. 21, 2025

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RJ2507WDG0179-1	Original release	Aug. 21, 2025



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1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Article 2 Section 1 Item 19 Reference	ARIB STD-T66 Ref.	Report reference	Parameter	Test Results (NOTE)
GENERAL PROVISIONS				
C	3.2(4)	3.1	Frequency tolerance	C
D	3.2(7)	3.2/3.3	Occupied bandwidth	C
E	3.2(6)	3.4	Spurious emissions	C
TRANSMITTING EQUIPMENT				
F	--	3.5	Antenna power	C
--	--	--	SAR	NA
TRANSMITTING ANTENNA				
--	--	2.5	Type, configuration, etc. of transmitting antenna	C
--	--	2.5	Direction pattern of transmitting antenna	C
RECEIVING EQUIPMENT				
H	3.3(1)	3.6	Spurious emissions of receiver	C
--	--	2.5	Refer to all articles for transmitting antenna	C
OPERATING FREQUENCY 2402 TO 2480MHz				
--	3.7 (1)	2.4	High Frequency/modulation section cannot be opened easily	C
--	3.1 (1)	2.1	Communication method	C
--	3.2 (1)a	2.1	Modulation method	C
--	3.2 (1)a	3.3	Spread spectrum method	C
--	3.2 (2)	3.5	Antenna power	C
--	3.6 (2)	3.5	Absolute gain of transmitting antenna	C
--	3.6 (2)	3.5	Angular width of principal radiation (AWPR)	C
--	3.2 (10)	--	Number of carriers within 1 MHz bandwidth in OFDM	NA
--	3.2 (8)	3.3	Diffusion bandwidth	NA
--	3.2 (9)	3.3	Spreading factor	NA
--	3.2 (11)	3.7	Frequency retention time (FH employed)	C
--	3.4.1(1)	3.8	Interference Prevention Function	C
NOTE 1: C = Conform NC = Not Conform NT = Not Tested NA = Not Applicable				



1.1 MEASUREMENT UNCERTAINTY

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

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

ITEM	UNCERTAINTY
Occupied Bandwidth	206.50 Hz
Spurious emissions	$\pm 3.93\text{dB}$
Output power density	1.37dB
Out of band radiated power	2.52 dB
Frequency Tolerance	0.104 ppm

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Projector
MODEL NO.	E25
ADDITIONAL MODELS	E21, E22, E23
POWER SUPPLY:	AC 100-240V 50/60Hz Remote Control: DC 3V(1.5V*AAA*2) from Battery
TYPE OF EQUIPMENT	Data transmission equipment operating in the 2.4GHz
MODULATION TECHNOLOGY	FHSS
MODULATION TYPE	GFSK, $\pi/4$ -DQPSK, 8DPSK
OPERATING FREQUENCY	2402MHz ~ 2480MHz
NUMBER OF CHANNEL	79
RATED RF OUTPUT POWER DENSITY	Please see NOTE 1
CONDUCTED POWER DENSITY	Please see NOTE 1
EIRP POWER DENSITY	Please see NOTE 1
HW-RELEASE NO	OD.P.RGEF1.MT9266
SW-RELEASE NO	V1.0.8
ANTENNA TYPE	FPC Antenna, 1.65dBi Gain
CABLE SUPPLIED	Refer to the user's manual

NOTES:

- The power table as below table:

	Rated output power density (mW/MHz)	Conducted power density (mW/MHz)	EIRP power density (mW/MHz)
Normal mode			
GFSK	0.3	0.091310	0.133511
$\pi/4$ -DQPSK	0.1	0.043660	0.063839
8DPSK	0.1	0.044210	0.064643
Enable AFH function			
GFSK	0.5	0.359188	0.525196
$\pi/4$ -DQPSK	0.3	0.170824	0.249775
8DPSK	0.3	0.172008	0.251506

- For the test results, the EUT had been tested with all conditions.
- The above EUT information was declared by the manufacturer and for more detailed features description please refers to the manufacturer's specifications or user's manual.
- Please refer to the EUT photo document (Reference No.: 2507WDG0179-1) for detailed product photo.



5. Additional models (see above table) are identical with the test models E25 except the model number and appearance for marketing purposes.

2.2 DESCRIPTION OF TEST CHANNELS

Seventy-nine channels are provided for Bluetooth.

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	/	/



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Six modes are provided:

Mode	Conditions
Mode A	GFSK
Mode B	$\pi/4$ -DQPSK
Mode C	8DPSK
Mode D	Enable AFH GFSK
Mode E	Enable AFH $\pi/4$ -DQPSK
Mode F	Enable AFH 8DPSK

Note:

- For the test results, the EUT had been tested with all conditions. But only the worst case (Mode A & Mode D) was shown in test report except the RF output power test was shown all conditions.
- For AFH function only tested occupied bandwidth, spreading bandwidth, Antenna power and dwell time.
- By means of test software which is provided by manufacturers, the power levels during the tests were set according to the following codes:

GFSK		$\pi/4$ -DQPSK		8DPSK	
CHANNEL	POWER SETTING	CHANNEL	POWER SETTING	CHANNEL	POWER SETTING
0	6E	0	6F	0	6F
39	6E	39	6F	39	6F
78	6E	78	6F	78	6F



2.3 TEST CONDITIONS

Test conditions	Voltage (Vac)
V_{normal}	100
V_{max}	110
V_{min}	90

2.4 ASSEMBLY

The RF circuits are located inside of the EUT. Frequency Band, channels and Modulation parameters are fixed inside the module. They cannot be edited or modified by end-user.

2.5 ANTENNA SPECIFICATIONS

2.5.1 ANTENNA GAIN

Ant. Type	Connector Type	Highest Peak Gain (dBi) 2.4GHz ~ 2.5GHz
FPC	i-pex	1.65

2.5.2 ANTENNA PATTERN

Please refer to the attached file (Antenna report).



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3 TEST TYPES AND RESULTS

3.1 FREQUENCY TOLERANCE MEASUREMENT

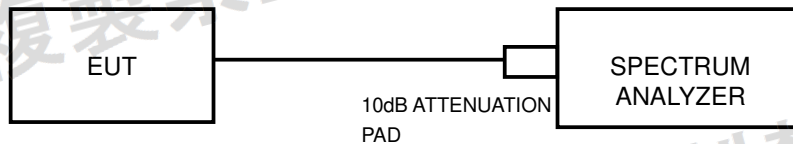
3.1.1 LIMITS OF FREQUENCY TOLERANCE MEASUREMENT

Tolerance of frequency shall be +/- 50ppm

3.1.2 TEST METHOD

According to MIC Notice No. 88 Appendix 43.

3.1.3 TEST SETUP





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3.1.4 TEST RESULTS – MODE A

ENVIRONMENTAL CONDITIONS		23 deg.C, 58 % RH					
Channel	Frequency (MHz)	Voltage normal		Voltage +10%		Voltage -10%	
		Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)
0	2402	2401.986239	-5.728	2401.986440	-5.645	2401.986600	-5.578
39	2441	2440.985679	-5.866	2440.985879	-5.784	2440.986119	-5.686
78	2480	2479.985079	-6.016	2479.985400	-5.887	2479.985640	-5.790



3.2 OCCUPIED BANDWIDTH MEASUREMENT (99% POWER BANDWIDTH)

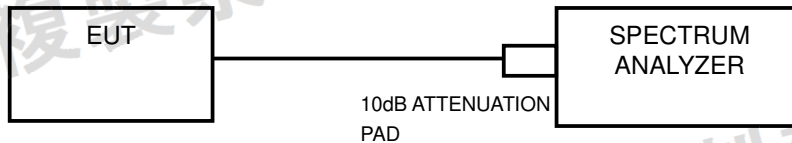
3.2.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

Occupied bandwidth shall be 83.5MHz or less.

3.2.2 TEST METHOD

According to MIC Notice No. 88 Appendix 43.

3.2.3 TEST SETUP





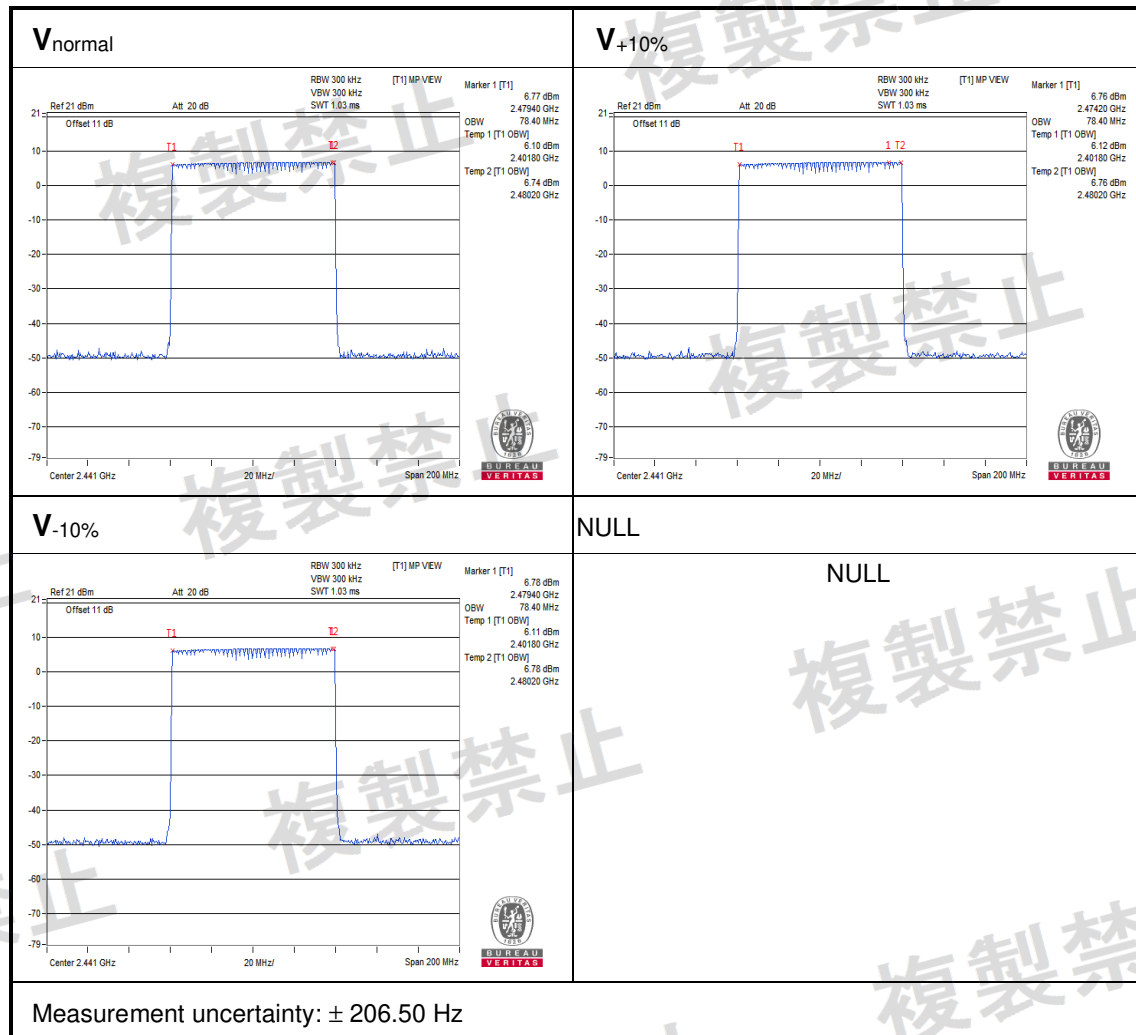
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3.2.4 TEST RESULTS – MODE A

For GFSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH		
HOPPING MODE	Voltage normal	Voltage +10%	Voltage -10%
	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
	78.40	78.40	78.40
Measurement uncertainty	± 206.50 Hz		





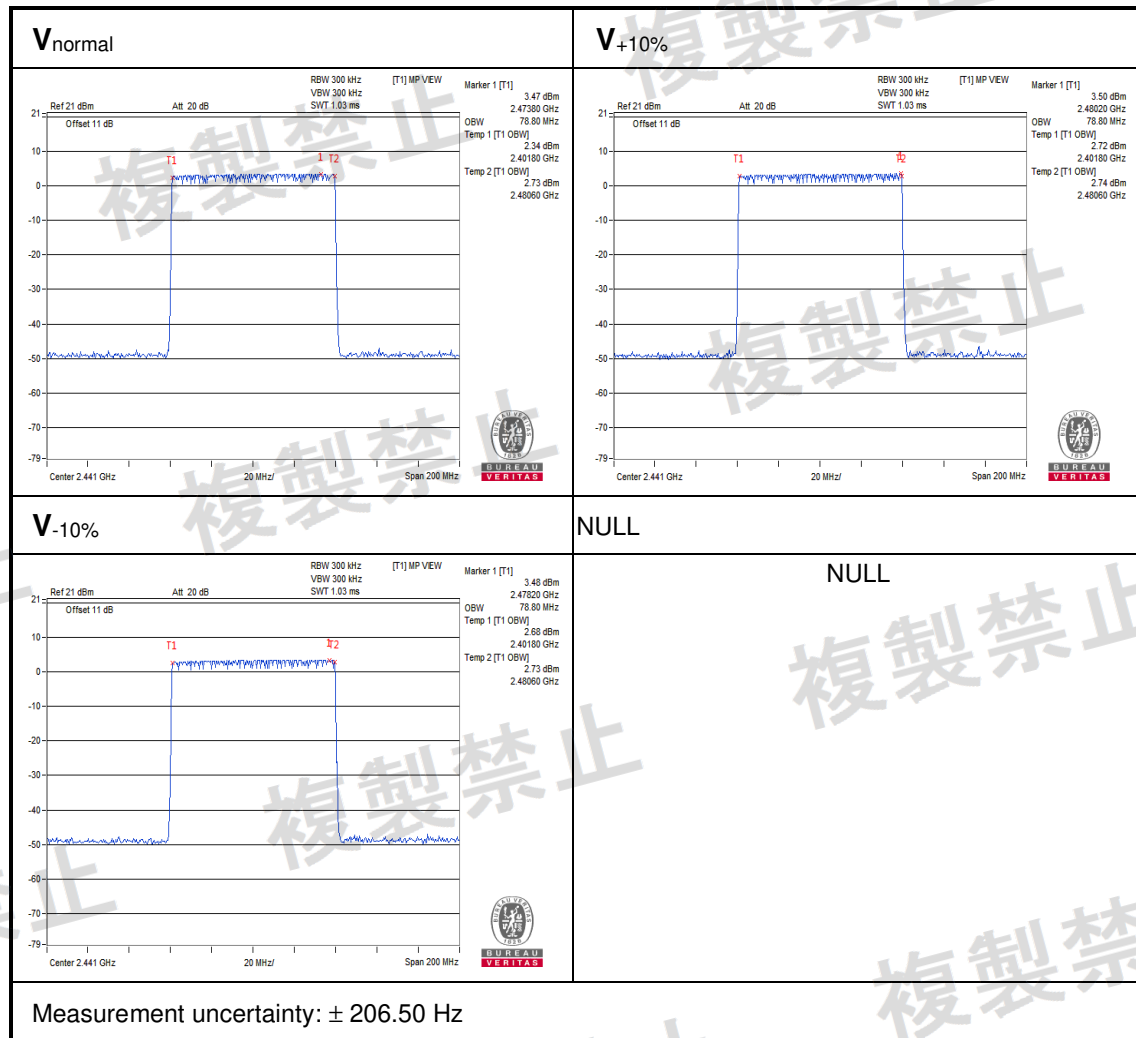
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3.2.1 TEST RESULTS – MODE B

For $\pi/4$ -DQPSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH		
HOPPING MODE	Voltage normal	Voltage +10%	Voltage -10%
	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
	78.80	78.80	78.80
Measurement uncertainty	± 206.50 Hz		





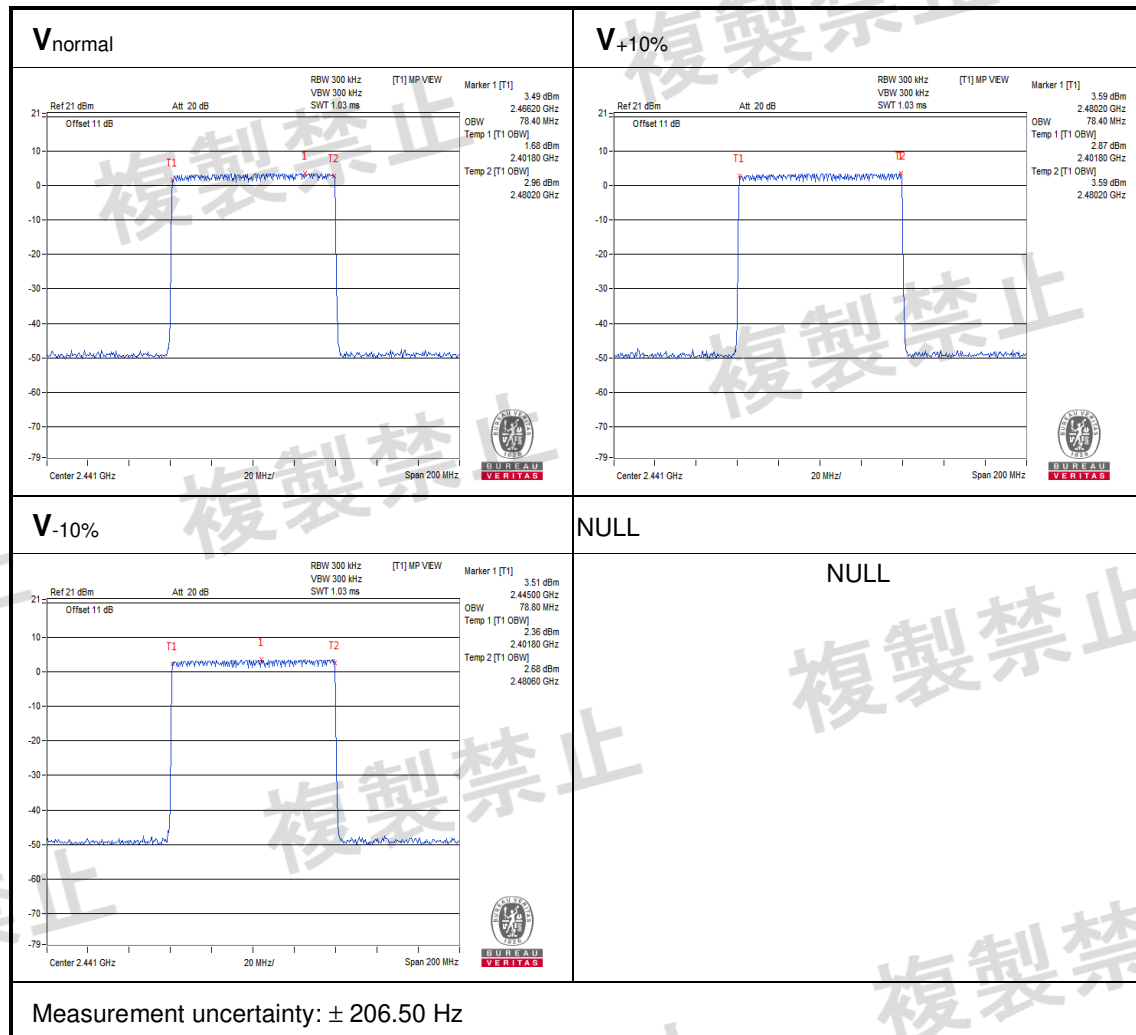
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3.2.2 TEST RESULTS – MODE C

For 8DPSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH		
HOPPING MODE	Voltage normal	Voltage +10%	Voltage -10%
	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
	78.40	78.40	78.80
Measurement uncertainty	± 206.50 Hz		





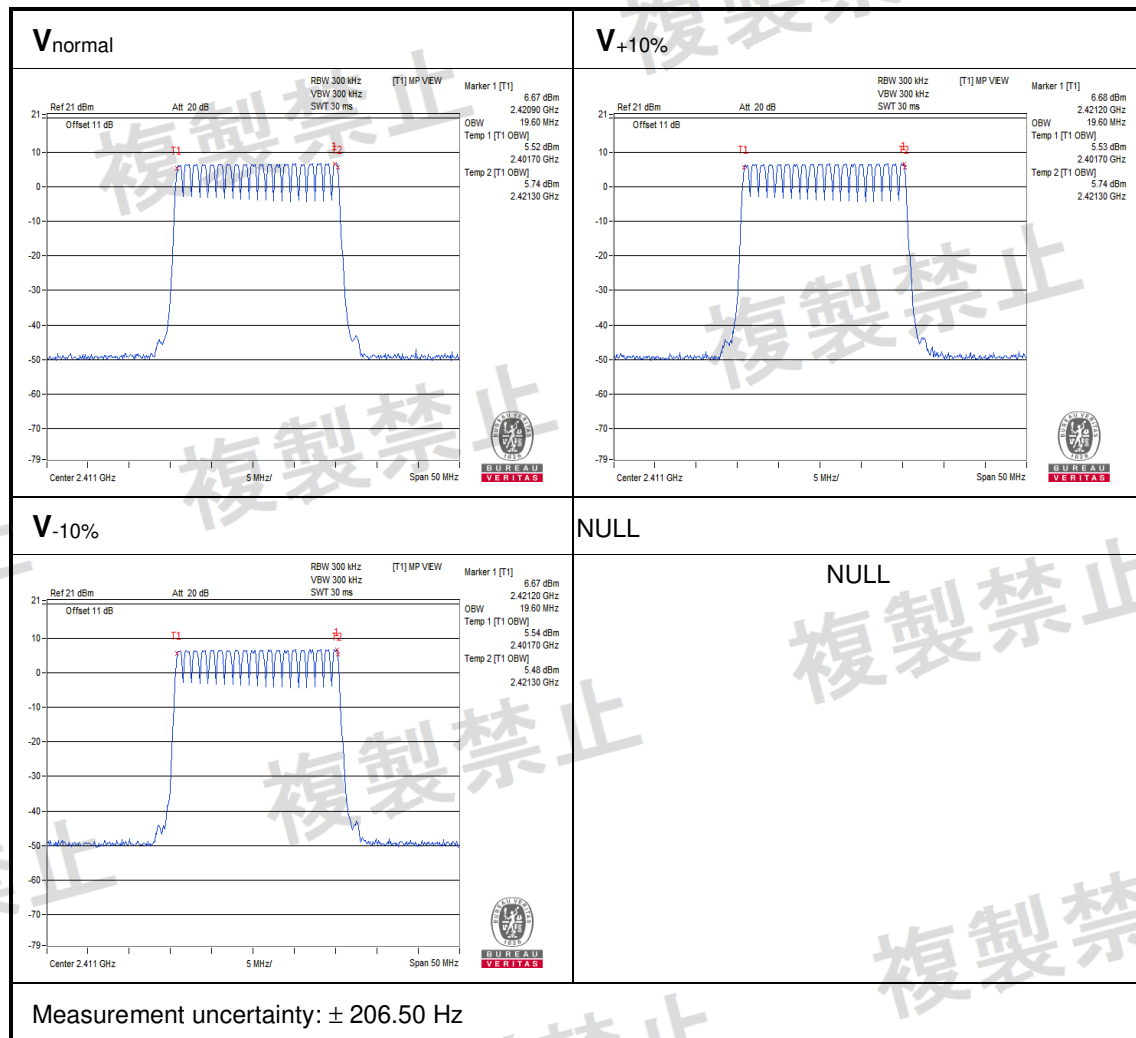
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3.2.3 TEST RESULTS – MODE D

For GFSK < Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH		
HOPPING MODE	Voltage normal	Voltage +10%	Voltage -10%
	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
	19.60	19.60	19.60
Measurement uncertainty	± 206.50 Hz		





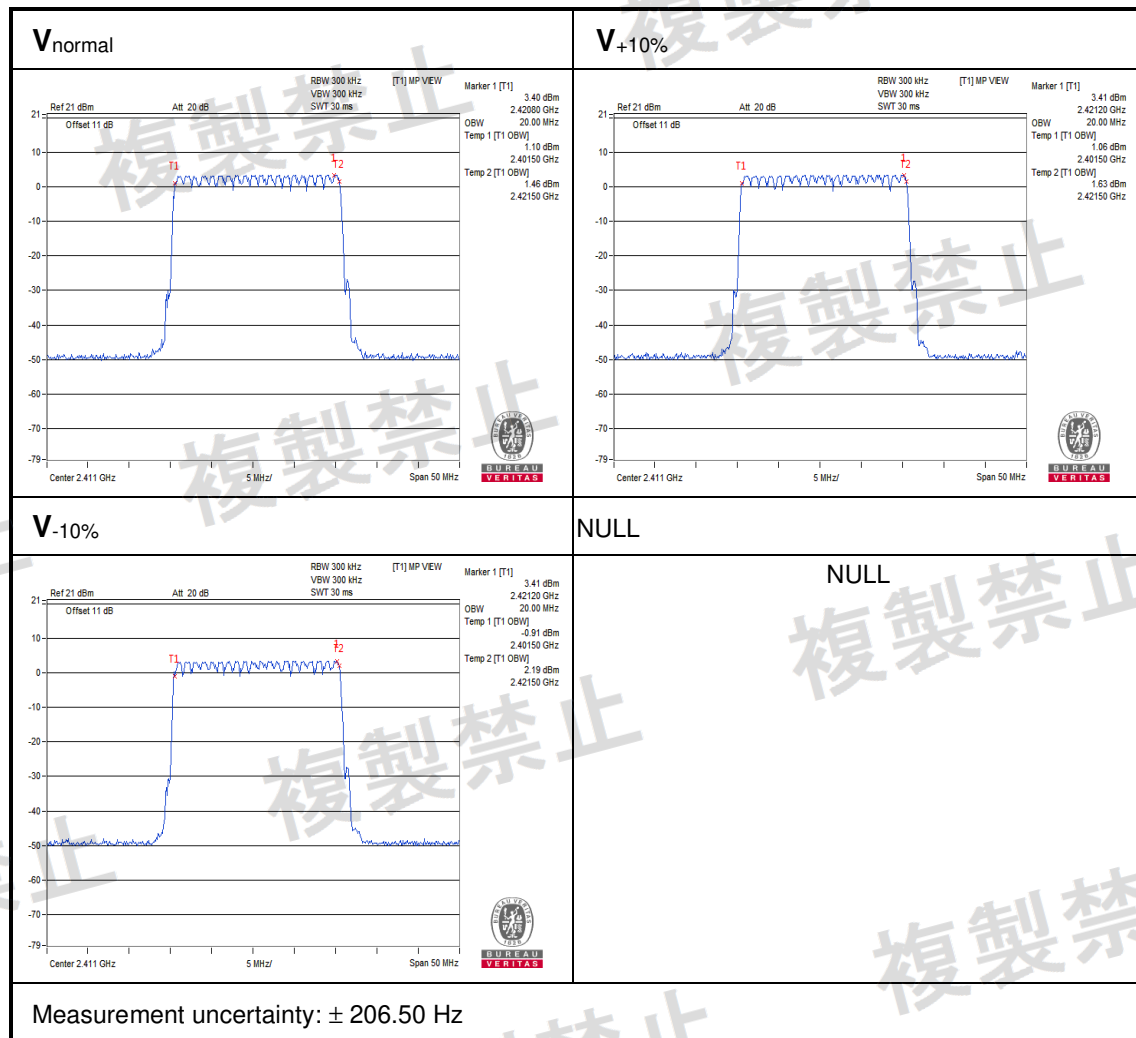
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3.2.4 TEST RESULTS – MODE E

For $\pi/4$ -DQPSK < Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH		
HOPPING MODE	Voltage normal	Voltage +10%	Voltage -10%
	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
	20.00	20.00	20.00
Measurement uncertainty	± 206.50 Hz		





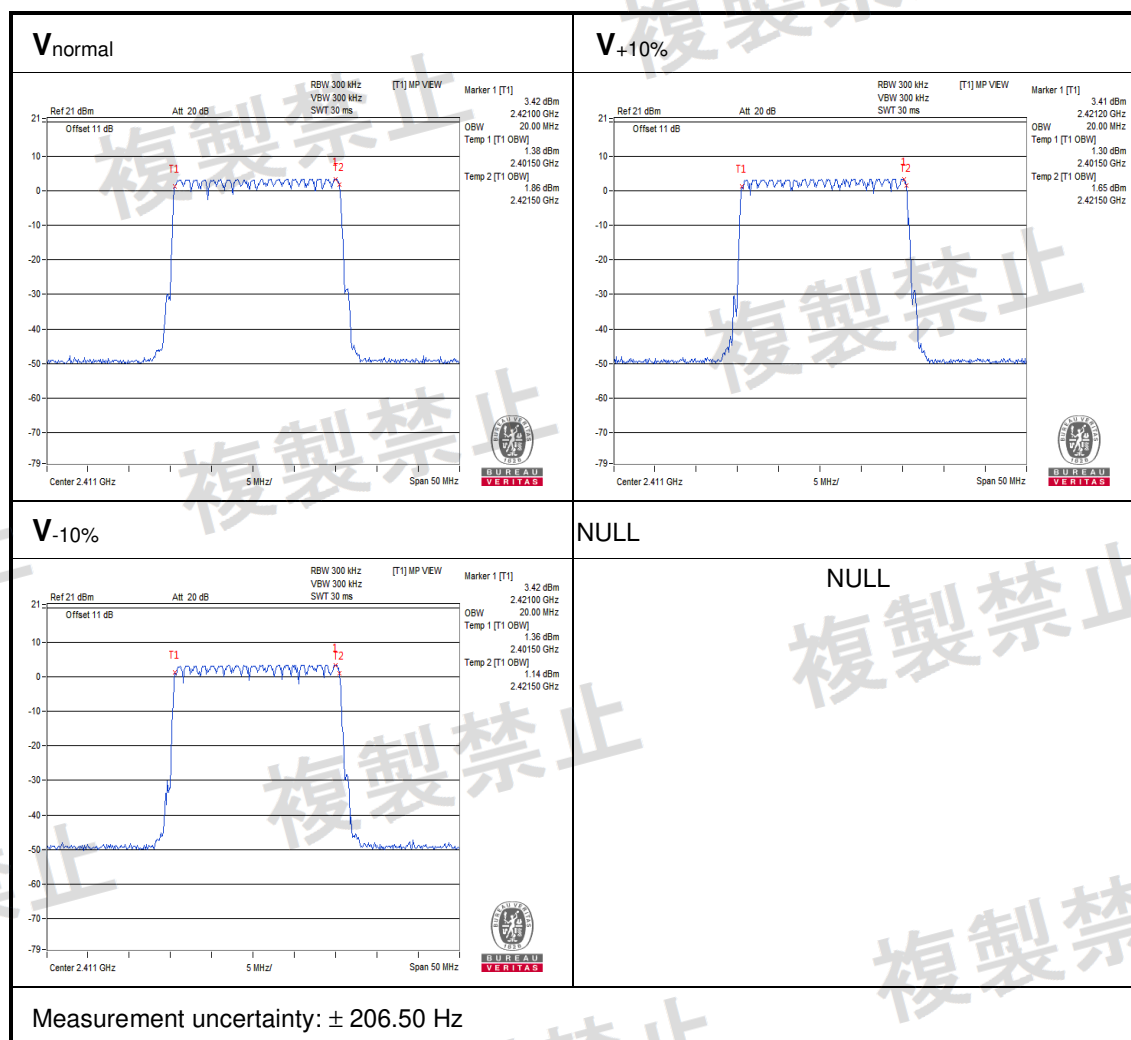
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3.2.5 TEST RESULTS – MODE F

For 8DPSK < Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH		
HOPPING MODE	Voltage normal	Voltage +10%	Voltage -10%
	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
	20.00	20.00	20.00
Measurement uncertainty	± 206.50 Hz		



3.3 SPREADING BANDWIDTH MEASUREMENT (90% POWER BANDWIDTH) (FOR REFERENCE)

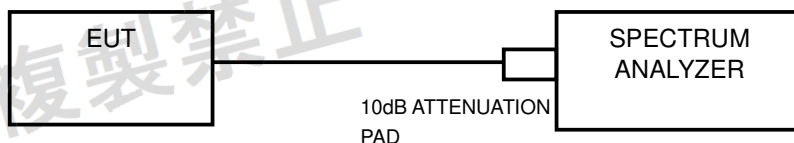
3.3.1 LIMITS OF SPREADING BANDWIDTH AND SPREADING FACTOR

No Restriction.

3.3.2 TEST METHOD

According to MIC Notice No. 88 Appendix 43.

3.3.3 TEST SETUP





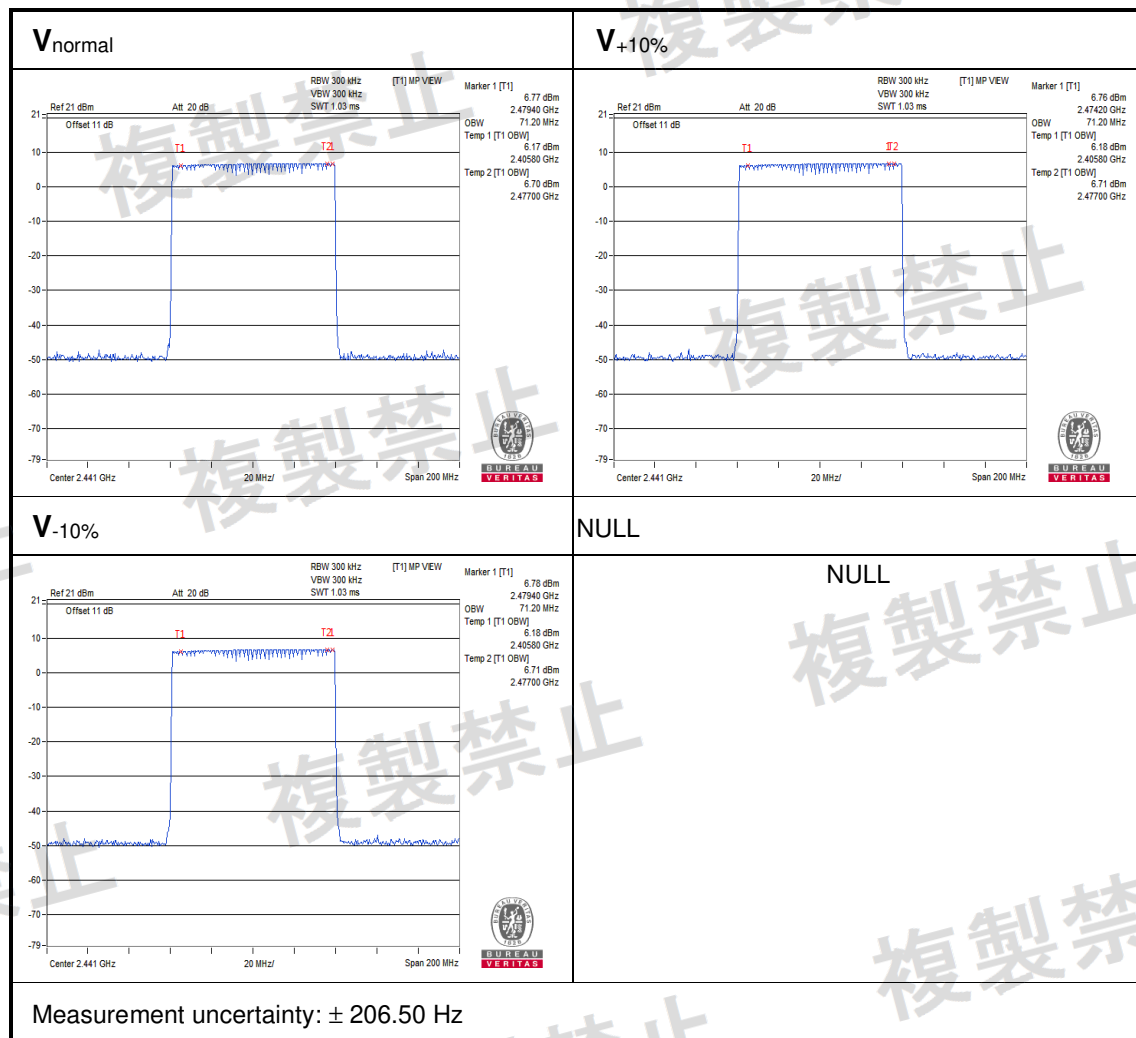
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3.3.4 TEST RESULTS – MODE A

For GFSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58% RH		
HOPPING MODE	Voltage normal	Voltage +10%	Voltage -10%
	Spread bandwidth (MHz)	Spread bandwidth (MHz)	Spread bandwidth (MHz)
	71.20	71.20	71.20
Measurement uncertainty	± 206.50 Hz		





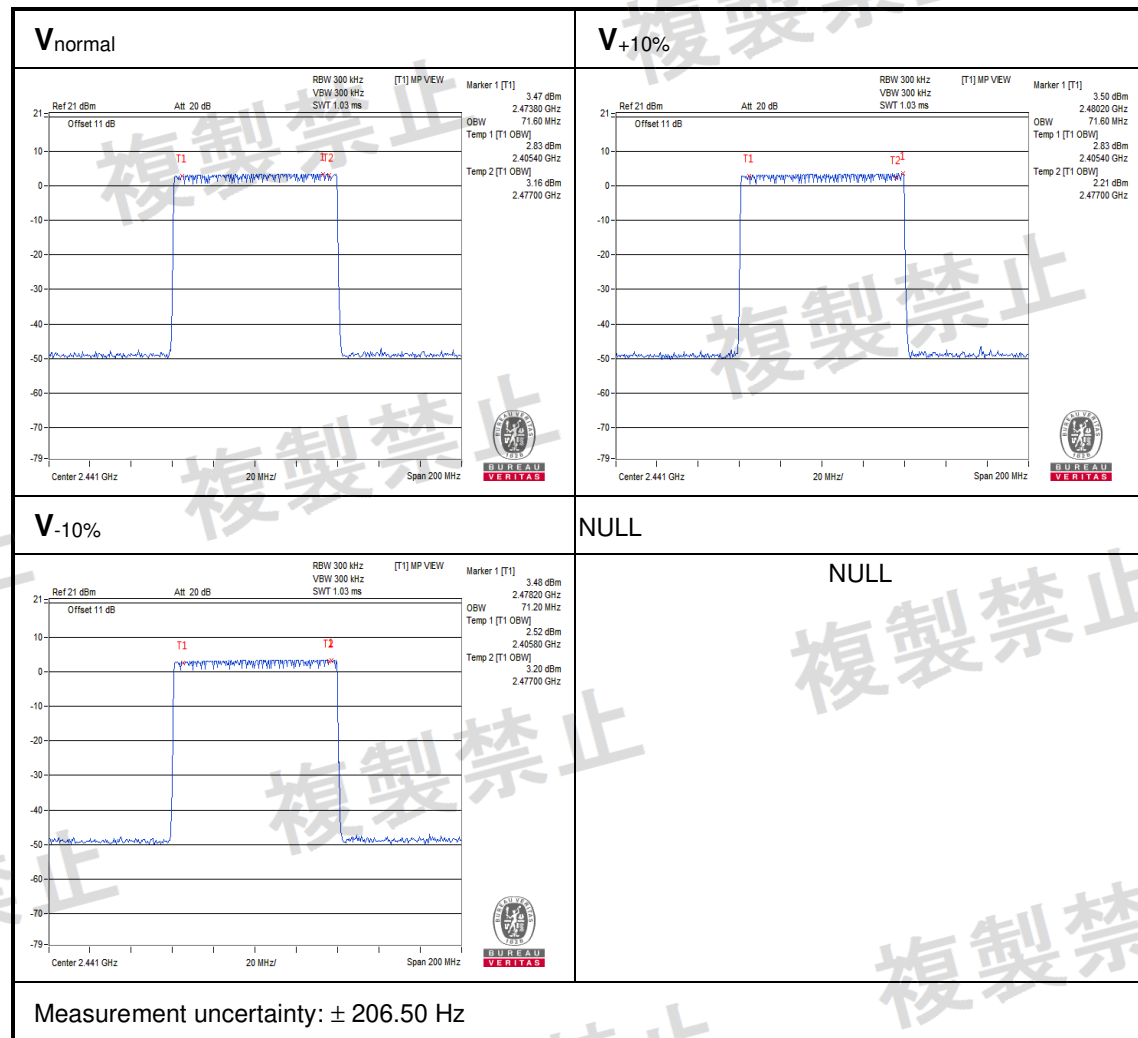
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3.3.5 TEST RESULTS – MODE B

For $\pi/4$ -DQPSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58% RH		
HOPPING MODE	Voltage normal	Voltage +10%	Voltage -10%
	Spread bandwidth (MHz)	Spread bandwidth (MHz)	Spread bandwidth (MHz)
	71.60	71.60	71.20
Measurement uncertainty	± 206.50 Hz		





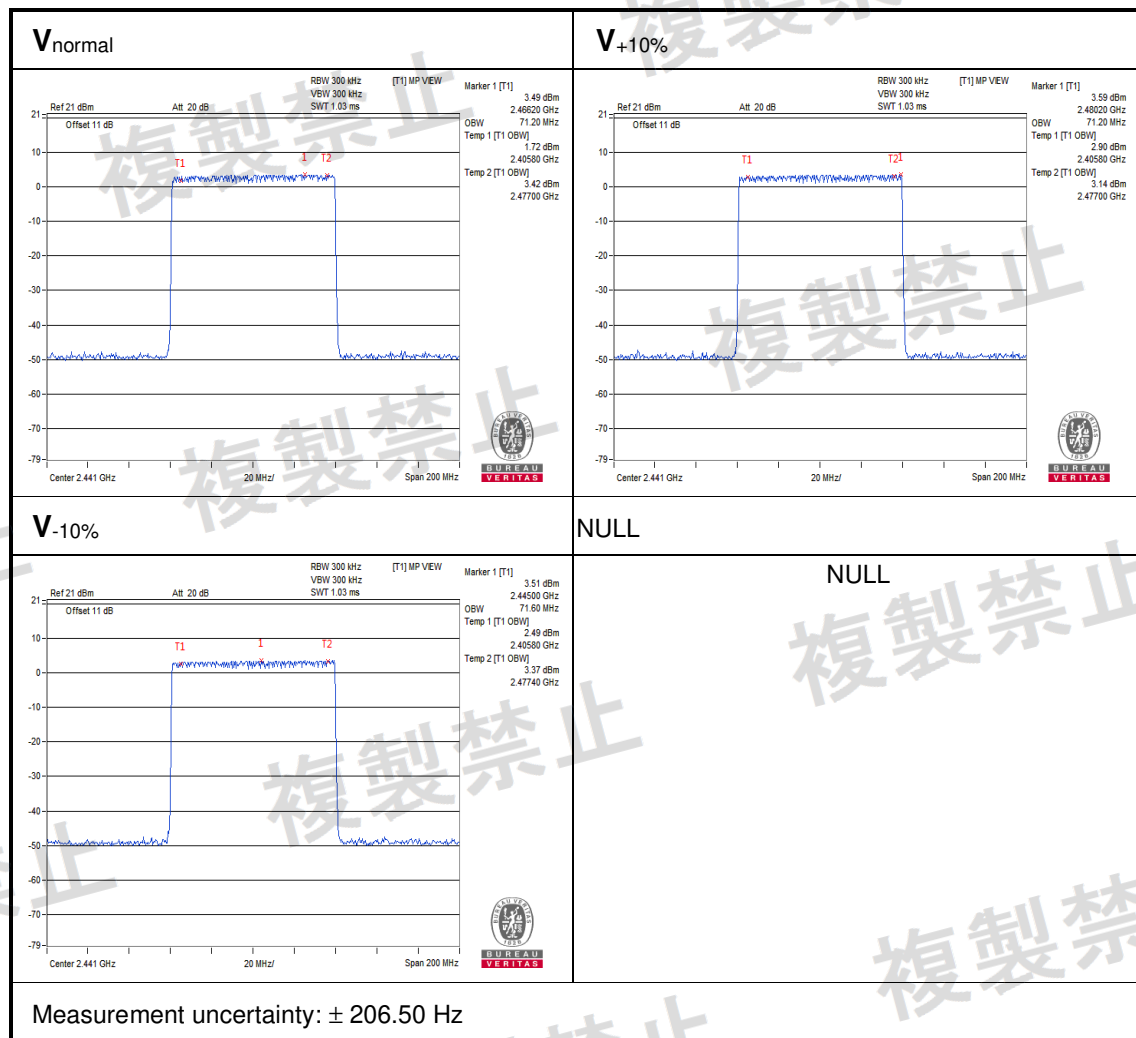
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3.3.6 TEST RESULTS – MODE C

For 8DPSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58% RH		
HOPPING MODE	Voltage normal	Voltage +10%	Voltage -10%
	Spread bandwidth (MHz)	Spread bandwidth (MHz)	Spread bandwidth (MHz)
	71.20	71.20	71.60
Measurement uncertainty	± 206.50 Hz		





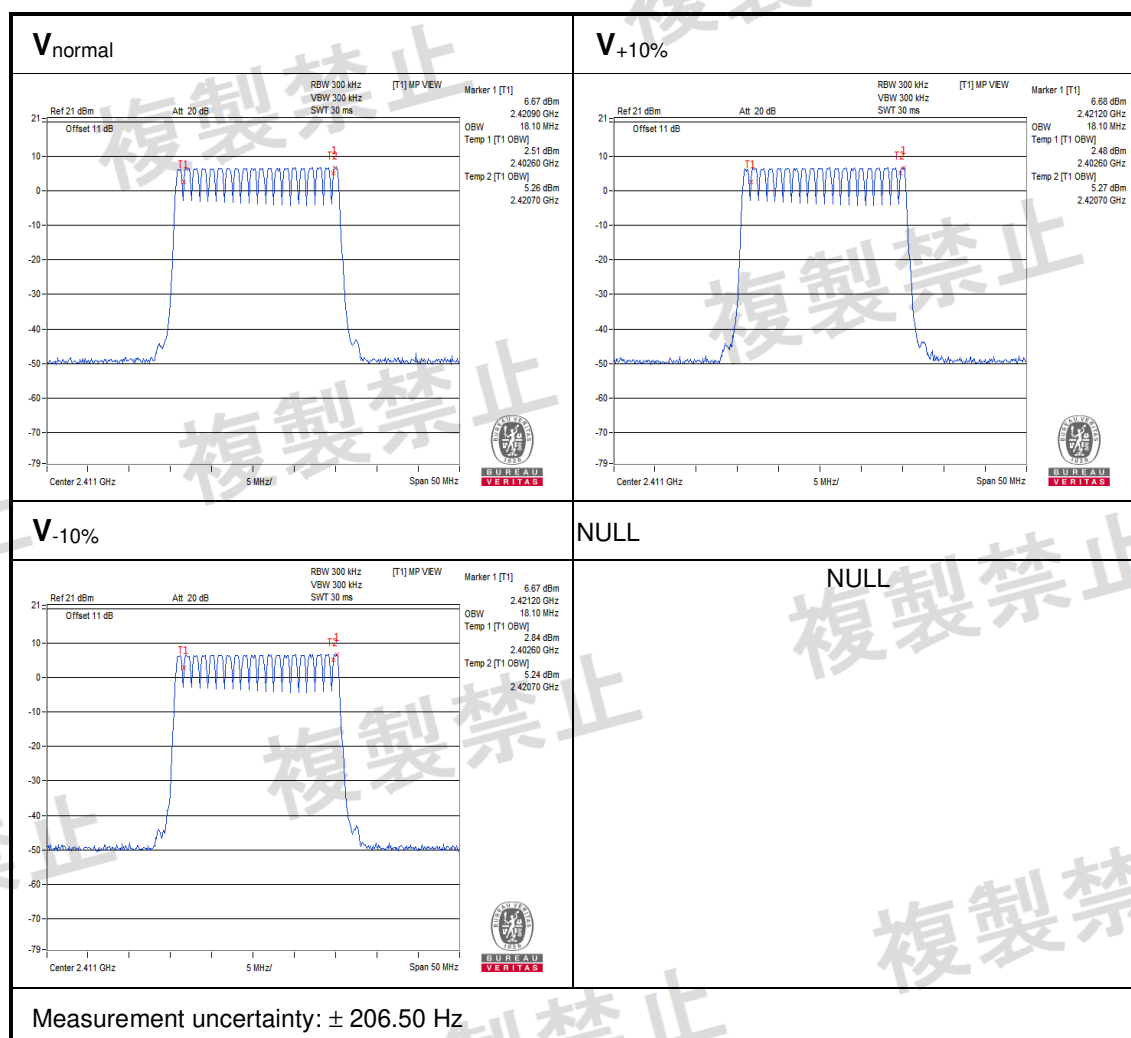
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3.3.7 TEST RESULTS – MODE D

For GFSK< Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH		
HOPPING MODE	Voltage normal	Voltage +10%	Voltage -10%
	Spread bandwidth (MHz)	Spread bandwidth (MHz)	Spread bandwidth (MHz)
	18.10	18.10	18.10
Measurement uncertainty	± 206.50 Hz		





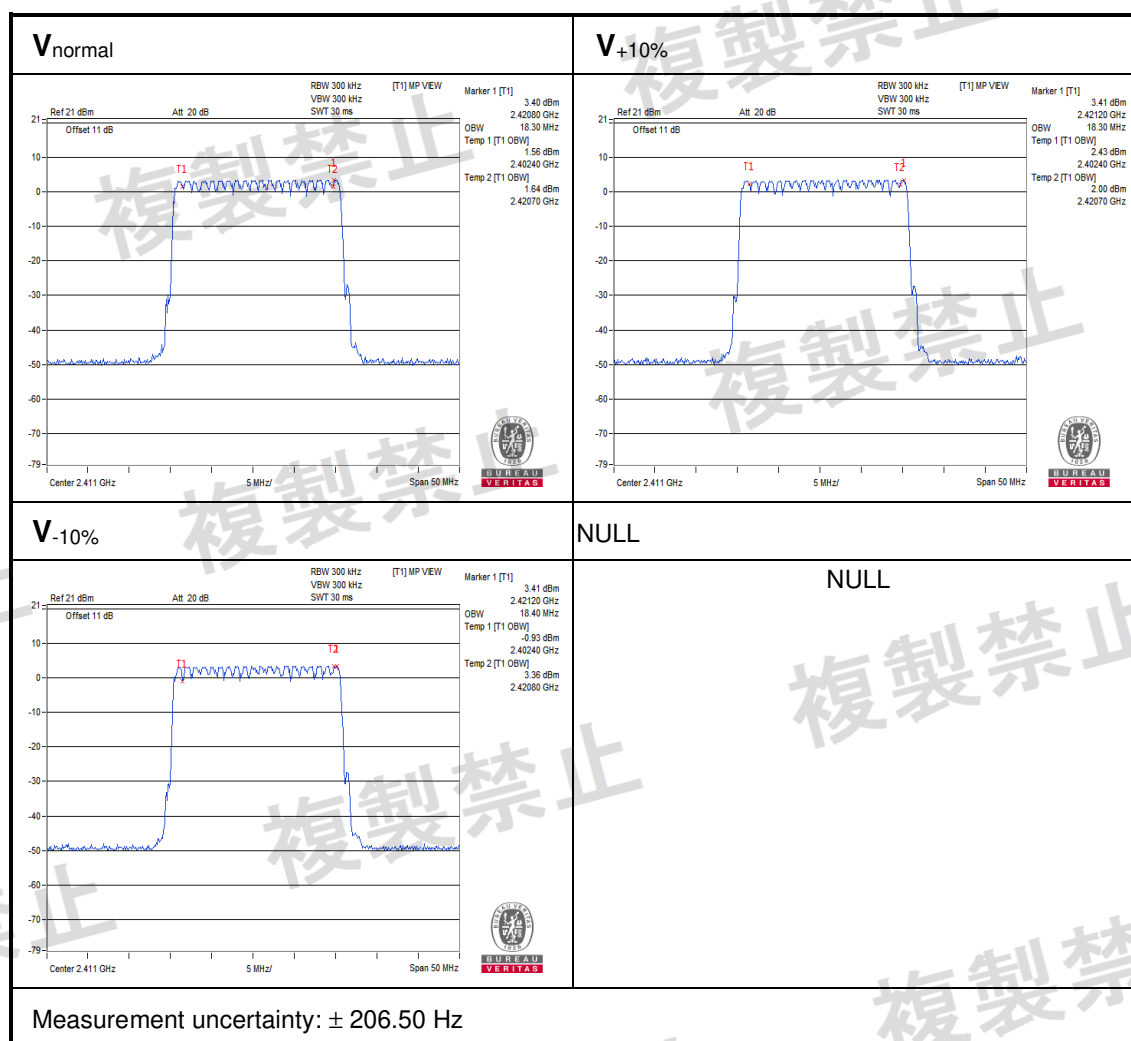
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3.3.8 TEST RESULTS – MODE E

For $\pi/4$ -DQPSK < Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH		
HOPPING MODE	Voltage normal	Voltage +10%	Voltage -10%
	Spread bandwidth (MHz)	Spread bandwidth (MHz)	Spread bandwidth (MHz)
	18.30	18.30	18.40





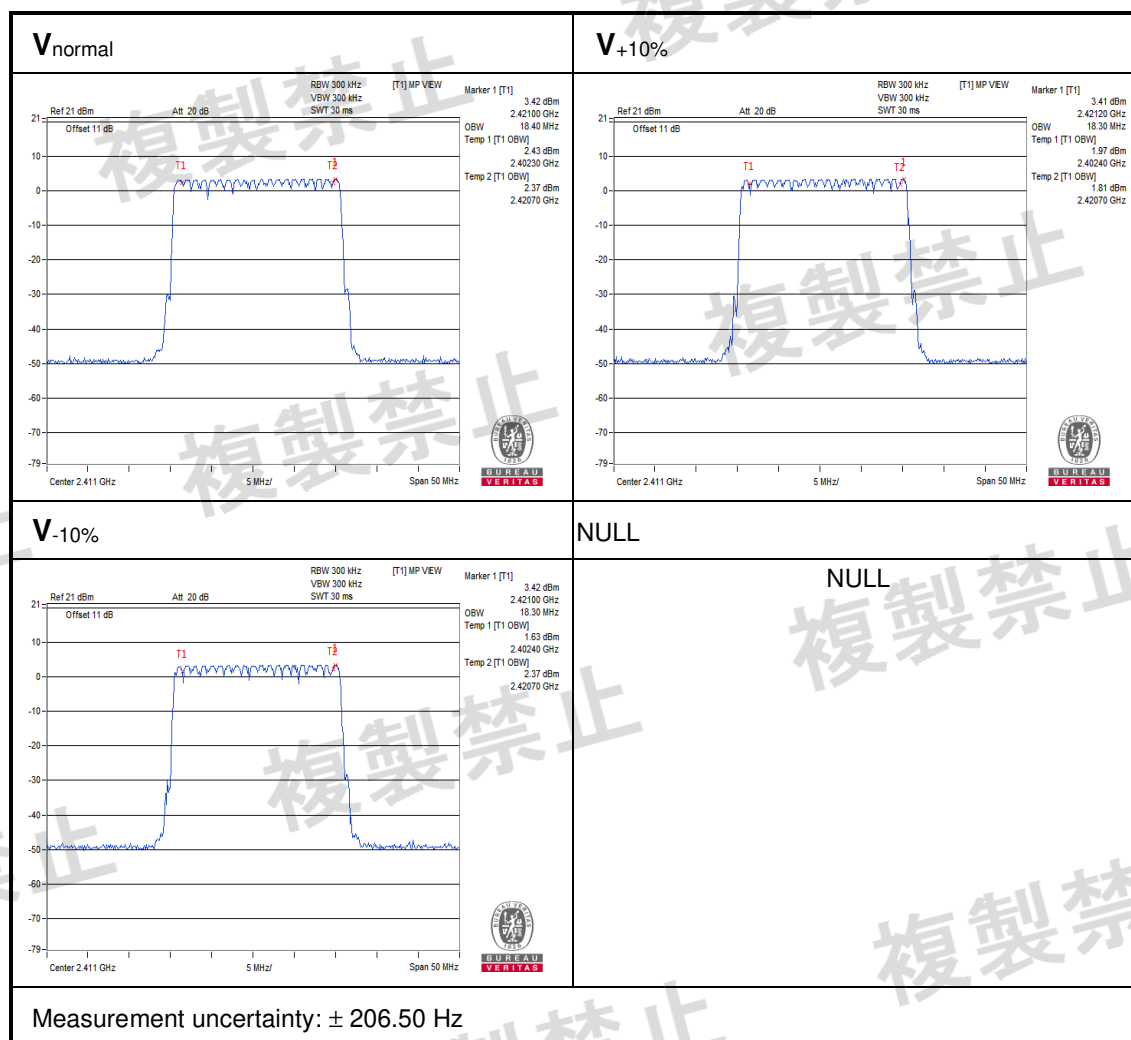
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3.3.9 TEST RESULTS – MODE F

For 8DPSK< Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH		
HOPPING MODE	Voltage normal	Voltage +10%	Voltage -10%
	Spread bandwidth (MHz)	Spread bandwidth (MHz)	Spread bandwidth (MHz)
	18.40	18.30	18.30
Measurement uncertainty	± 206.50 Hz		





3.4 SPURIOUS EMISSIONS FOR TRANSMITTER MEASUREMENT

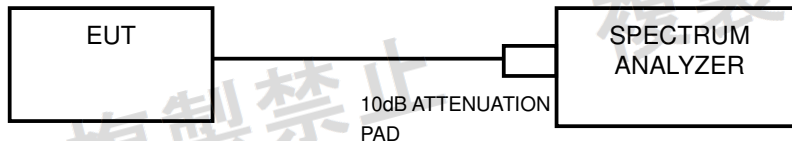
3.4.1 LIMITS OF SPURIOUS EMISSIONS

Frequencies (MHz)	Limit
Operating frequency 2400 to 2483.5MHz	
$2387 \leq f < 2400$	$\leq 25\mu\text{W/MHz}$
$2483.5 < f \leq 2496.5$	$\leq 25\mu\text{W/MHz}$
All other frequencies	$\leq 2.5\mu\text{W/MHz}$

3.4.2 TEST METHOD

According to MIC Notice No. 88 Appendix 43.

3.4.3 TEST SETUP





**BUREAU
VERITAS**

Test Report No.: RJ2507WDG0179-1

3.4.4 SUMMARY OF TEST RESULTS – MODE A

GFSK

TEST CHANNEL		CH 0 (2402MHz)		CH 39 (2441MHz)		LIMIT (uW/MHz)	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)	MEASURE. VALUE (uW/MHz)	FREQUENCY (MHz)	MEASURE. VALUE (uW/MHz)		
Vnormal	30.0MHz to 1000.0MHz	800.900	0.001452	813.760	0.001484	2.5	PASS
	1000.0MHz to 2387MHz	1601.610	0.043379	1627.610	0.047148	2.5	PASS
	2387.0MHz to 2400.0MHz	2399.990	0.905243	2397.080	0.002315	25	PASS
	2483.5MHz to 2496.5MHz	2488.510	0.000936	2486.940	0.002791	25	PASS
	2496.5MHz to 12500.0MHz	7205.640	0.130013	7323.180	0.102524	2.5	PASS
V+10%	30.0MHz to 1000.0MHz	800.900	0.001305	814.000	0.001471	2.5	PASS
	1000.0MHz to 2387MHz	1601.260	0.044276	1627.610	0.047174	2.5	PASS
	2387.0MHz to 2400.0MHz	2400.000	0.793693	2398.210	0.002341	25	PASS
	2483.5MHz to 2496.5MHz	2494.790	0.000954	2487.500	0.002413	25	PASS
	2496.5MHz to 12500.0MHz	7205.640	0.128719	7323.180	0.104177	2.5	PASS
V-10%	30.0MHz to 1000.0MHz	801.150	0.001411	814.000	0.001424	2.5	PASS
	1000.0MHz to 2387MHz	1601.260	0.044063	1627.610	0.046725	2.5	PASS
	2387.0MHz to 2400.0MHz	2400.000	0.845181	2397.060	0.002259	25	PASS
	2483.5MHz to 2496.5MHz	2495.340	0.000944	2487.960	0.003066	25	PASS
	2496.5MHz to 12500.0MHz	7205.640	0.126581	7323.180	0.103624	2.5	PASS



**BUREAU
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Test Report No.: RJ2507WDG0179-1

TEST CHANNEL		CH 78 (2480MHz)		LIMIT (uW/MHz)	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)	MEASURE. VALUE (uW/MHz)		
Vnormal	30.0MHz to 1000.0MHz	827.090	0.001459	2.5	PASS
	1000.0MHz to 2387MHz	1653.620	0.047357	2.5	PASS
	2387.0MHz to 2400.0MHz	2399.870	0.001037	25	PASS
	2483.5MHz to 2496.5MHz	2483.520	0.019845	25	PASS
	2496.5MHz to 12500.0MHz	7440.720	0.15934	2.5	PASS
V+10%	30.0MHz to 1000.0MHz	826.850	0.001318	2.5	PASS
	1000.0MHz to 2387MHz	1653.620	0.04744	2.5	PASS
	2387.0MHz to 2400.0MHz	2399.970	0.000965	25	PASS
	2483.5MHz to 2496.5MHz	2483.530	0.020054	25	PASS
	2496.5MHz to 12500.0MHz	7440.720	0.16208	2.5	PASS
V-10%	30.0MHz to 1000.0MHz	827.090	0.001605	2.5	PASS
	1000.0MHz to 2387MHz	1653.620	0.046913	2.5	PASS
	2387.0MHz to 2400.0MHz	2399.640	0.001016	25	PASS
	2483.5MHz to 2496.5MHz	2483.510	0.016835	25	PASS
	2496.5MHz to 12500.0MHz	7440.720	0.155419	2.5	PASS

NOTE: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.
2. The spectrum plots are attached on the following pages.

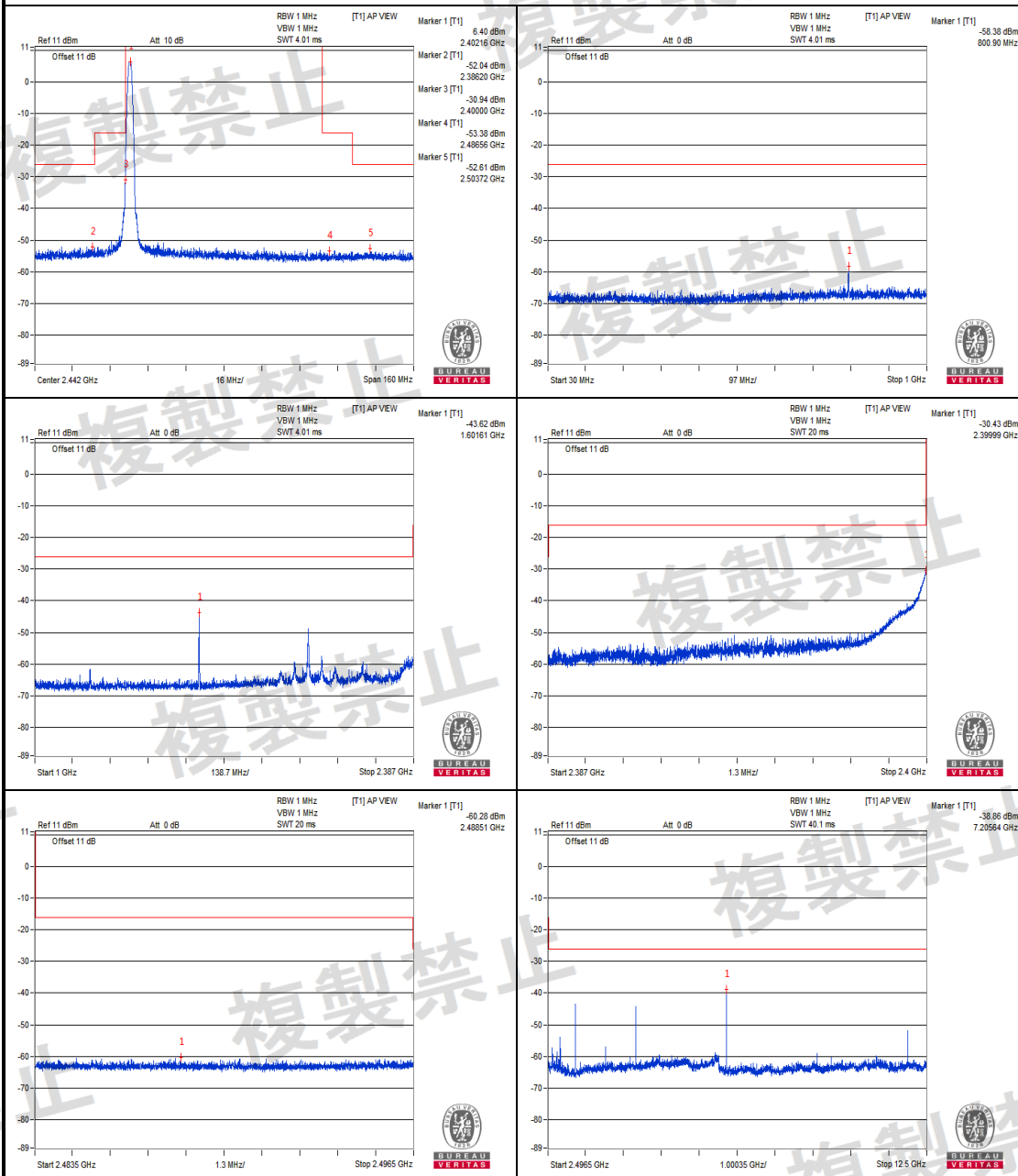


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VERITAS

Test Report No.: RJ2507WDG0179-1

GFSK

Vnormal
Channel 0



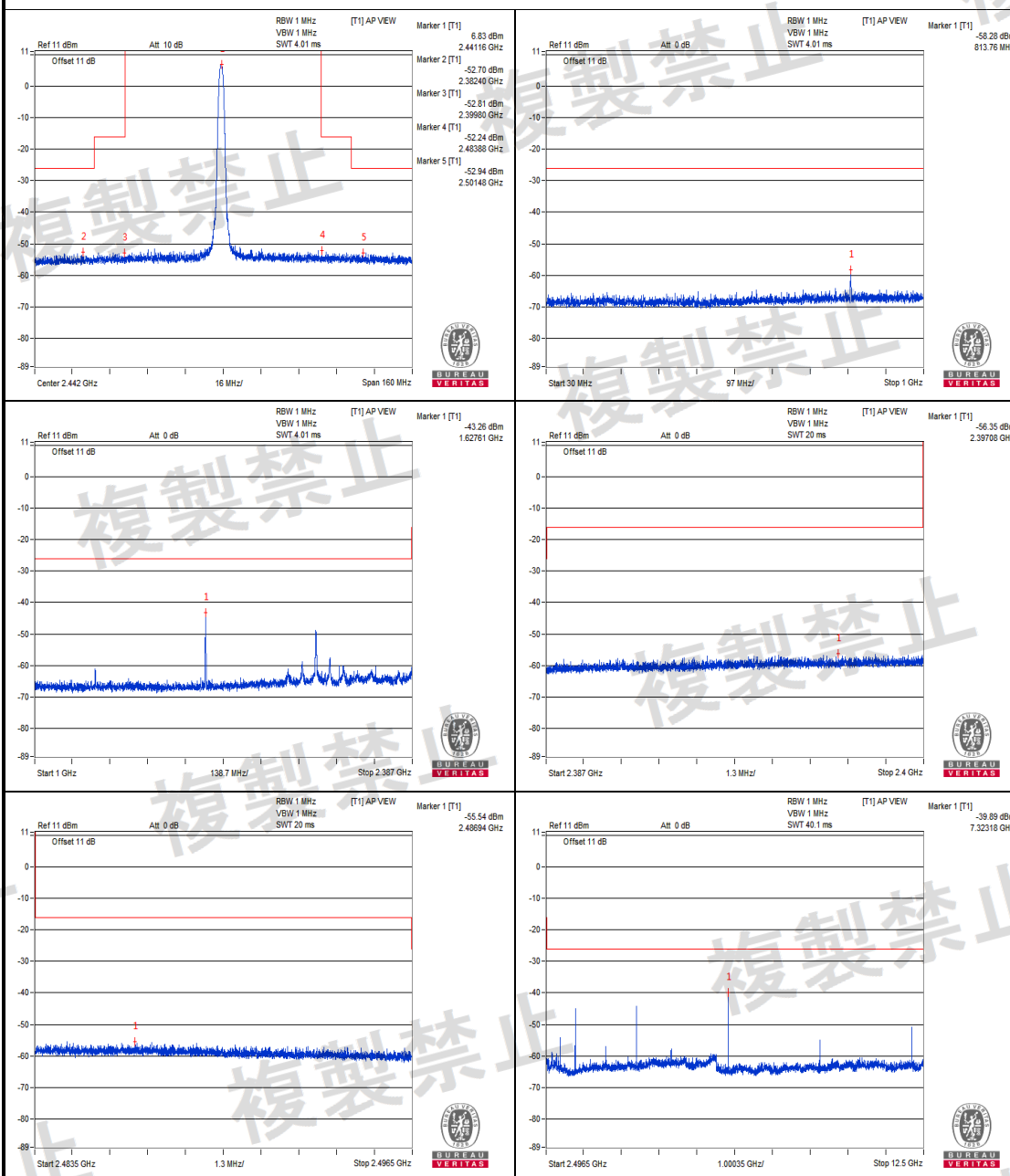
Measurement uncertainty: $\pm 3.93\text{dB}$



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Test Report No.: RJ2507WDG0179-1

Vnormal Channel 39



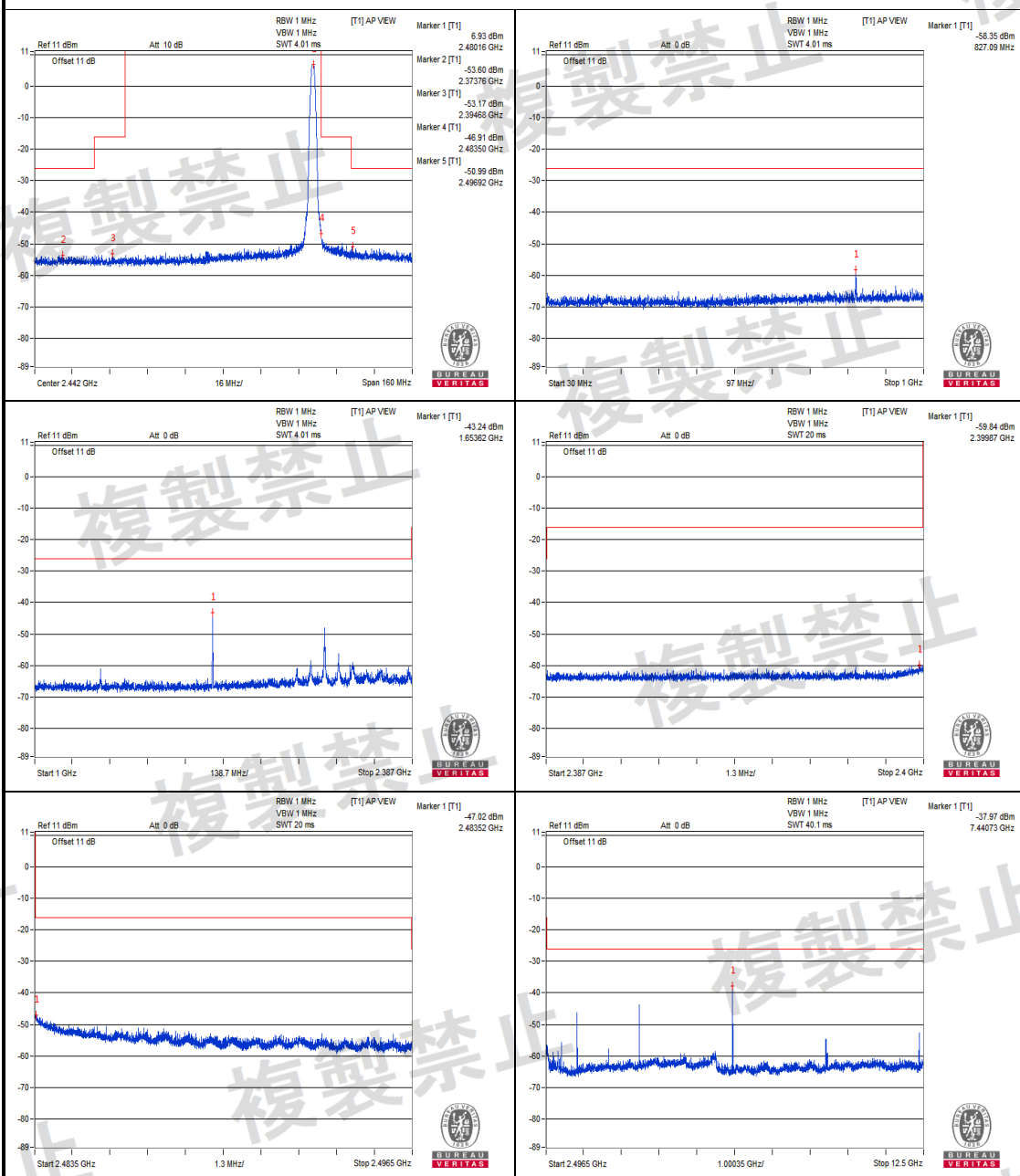
Measurement uncertainty: $\pm 3.93\text{dB}$



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Test Report No.: RJ2507WDG0179-1

Vnormal Channel 78



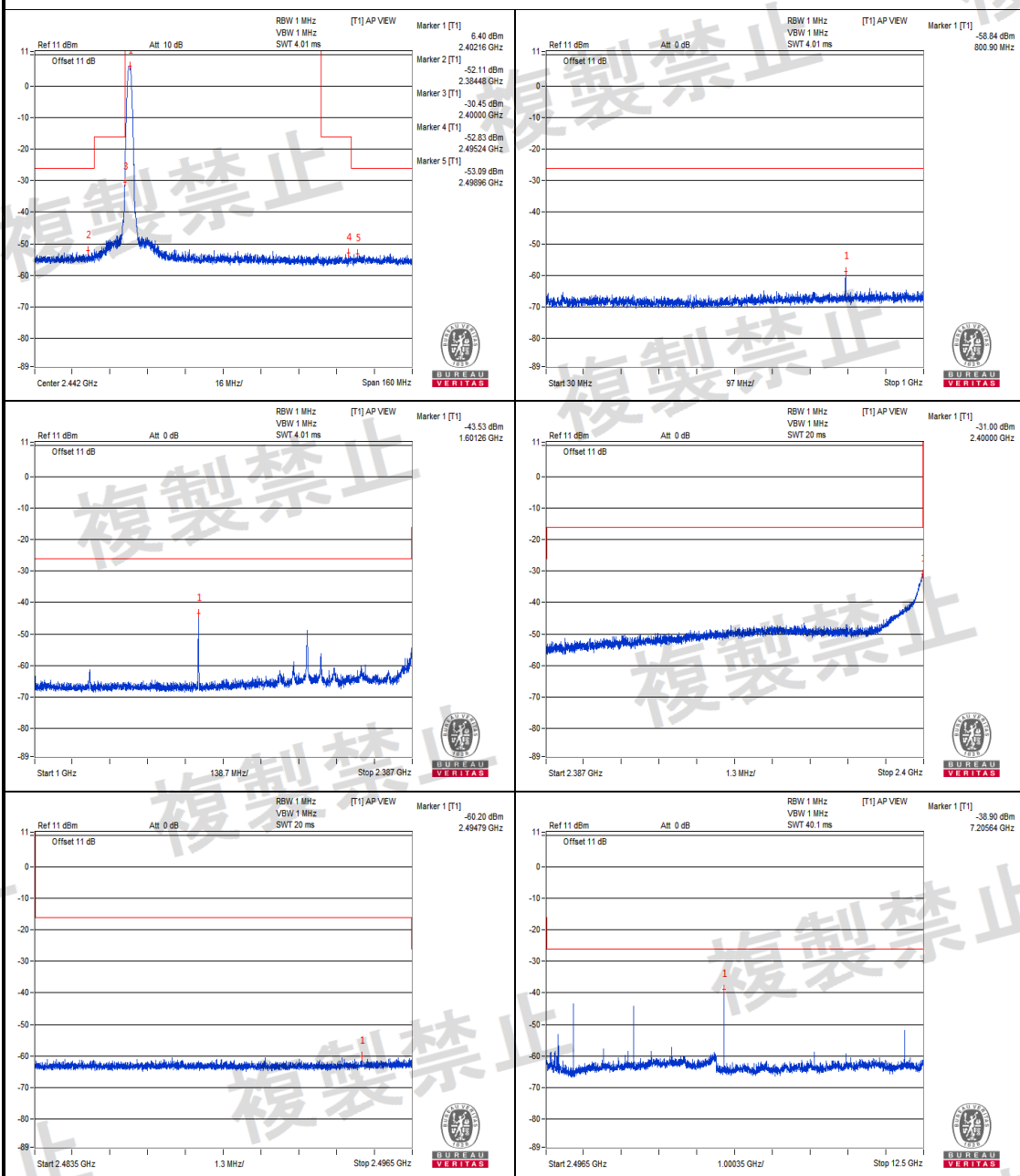
Measurement uncertainty: $\pm 3.93\text{dB}$



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Test Report No.: RJ2507WDG0179-1

V+10%
Channel 0



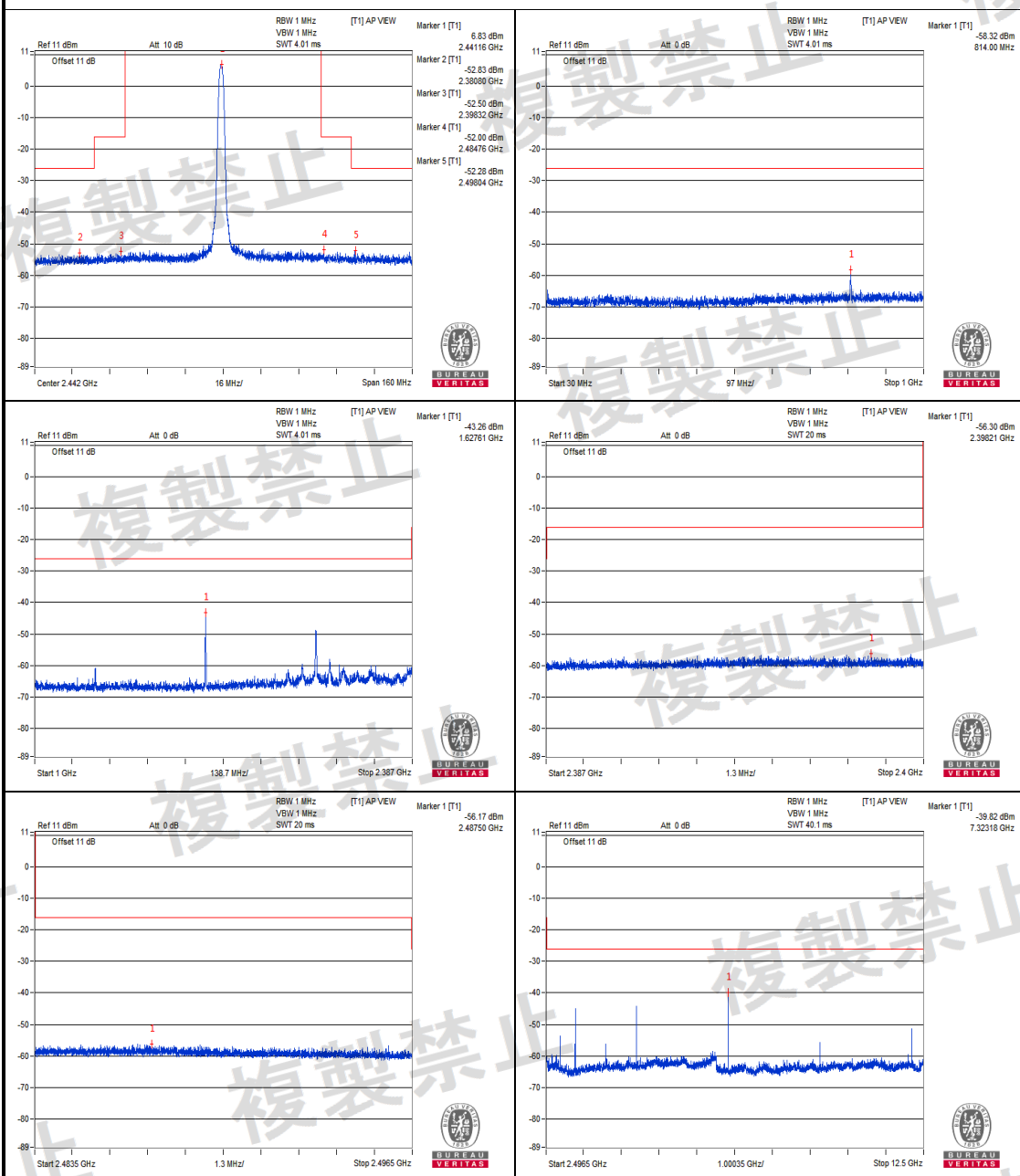
Measurement uncertainty: $\pm 3.93\text{dB}$



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Test Report No.: RJ2507WDG0179-1

V+10%
Channel 39



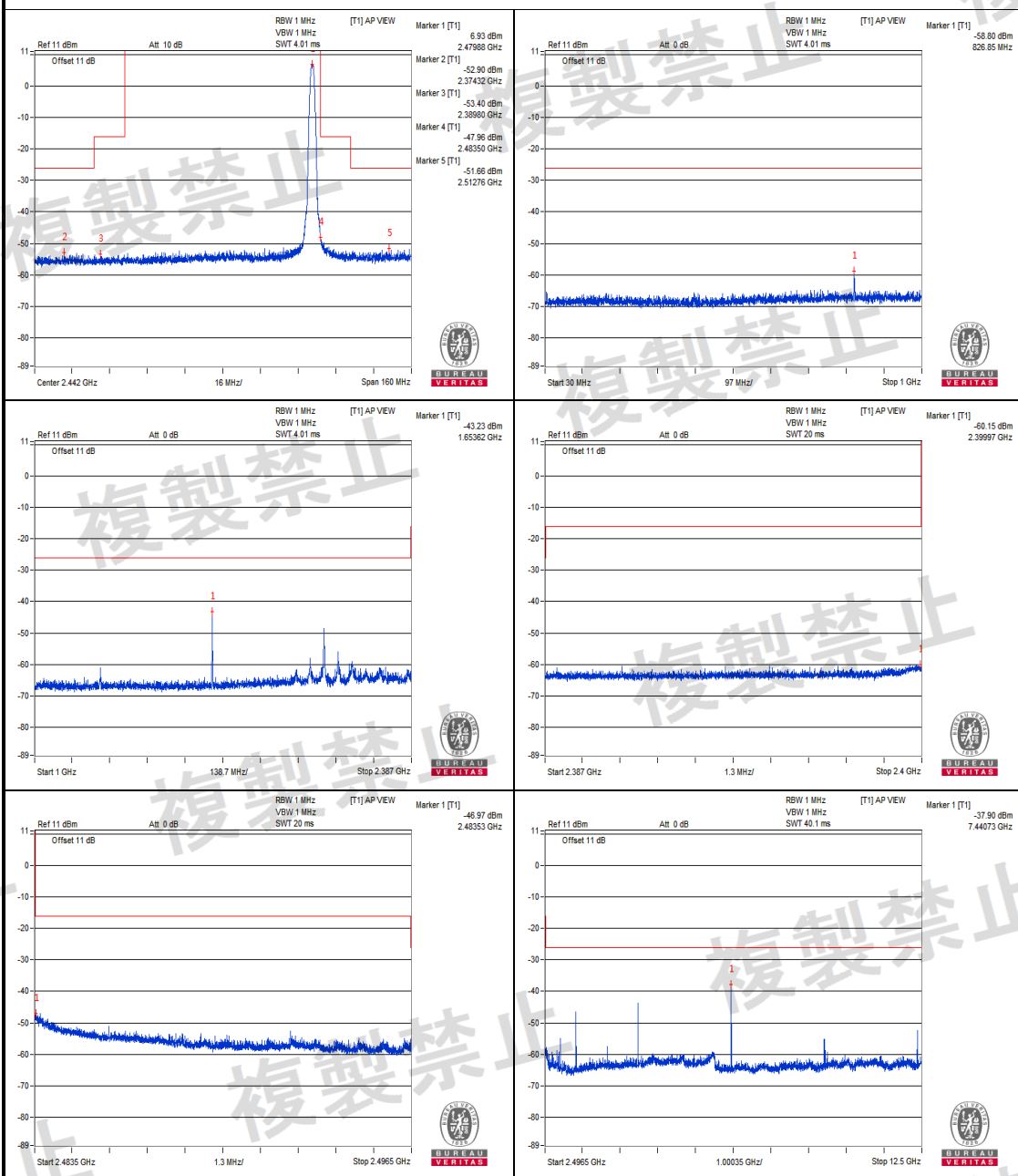
Measurement uncertainty: $\pm 3.93\text{dB}$



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Test Report No.: RJ2507WDG0179-1

V+10%
Channel 78



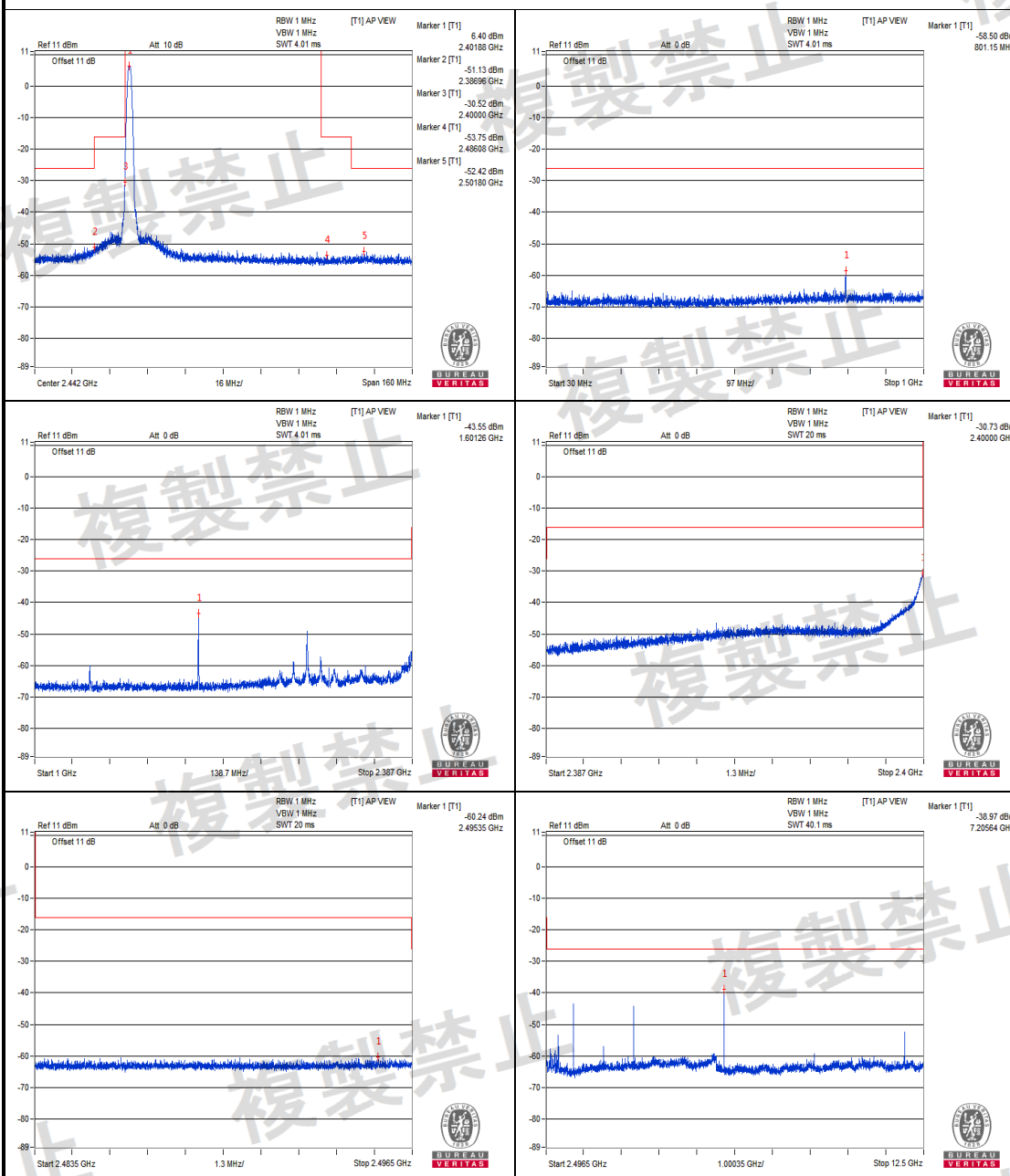
Measurement uncertainty: $\pm 3.93\text{dB}$



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VERITAS

Test Report No.: RJ2507WDG0179-1

V-10%
Channel 0



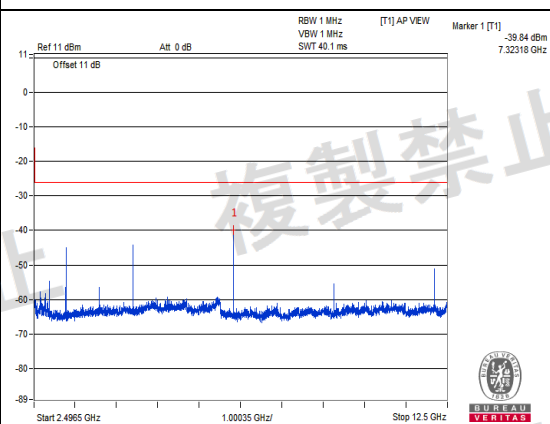
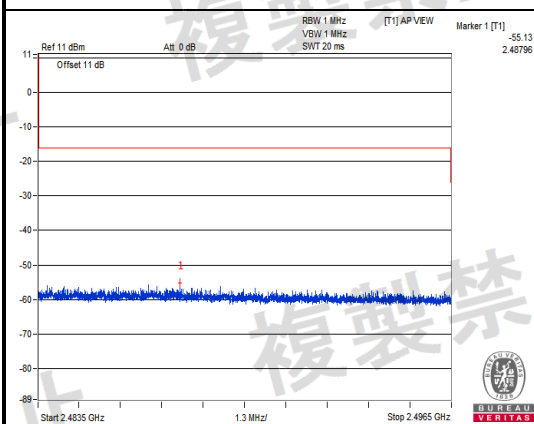
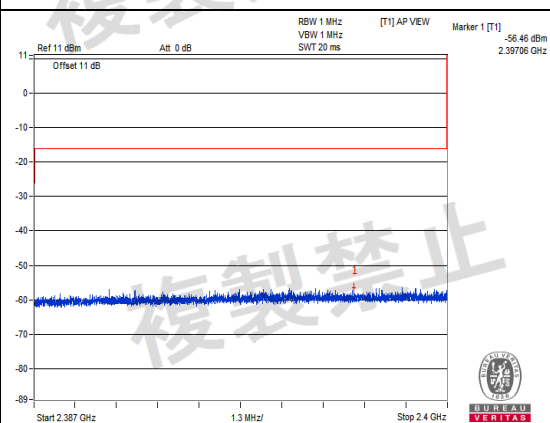
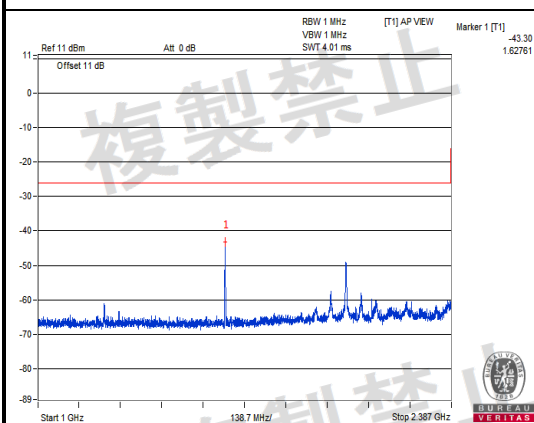
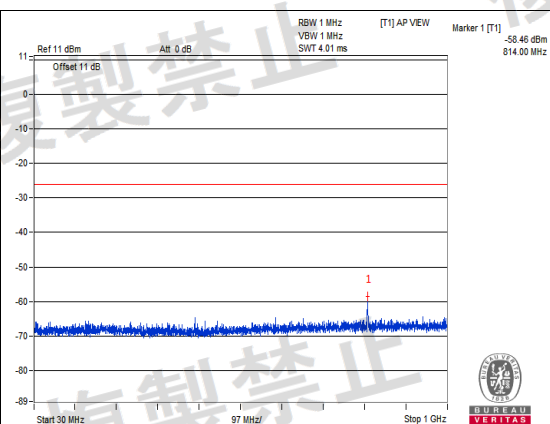
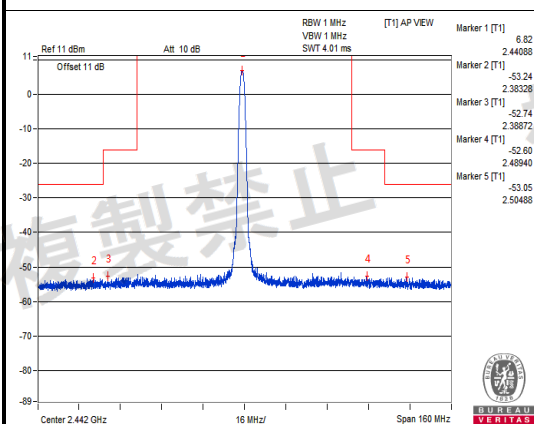
Measurement uncertainty: $\pm 3.93\text{dB}$



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Test Report No.: RJ2507WDG0179-1

V-10% Channel 39



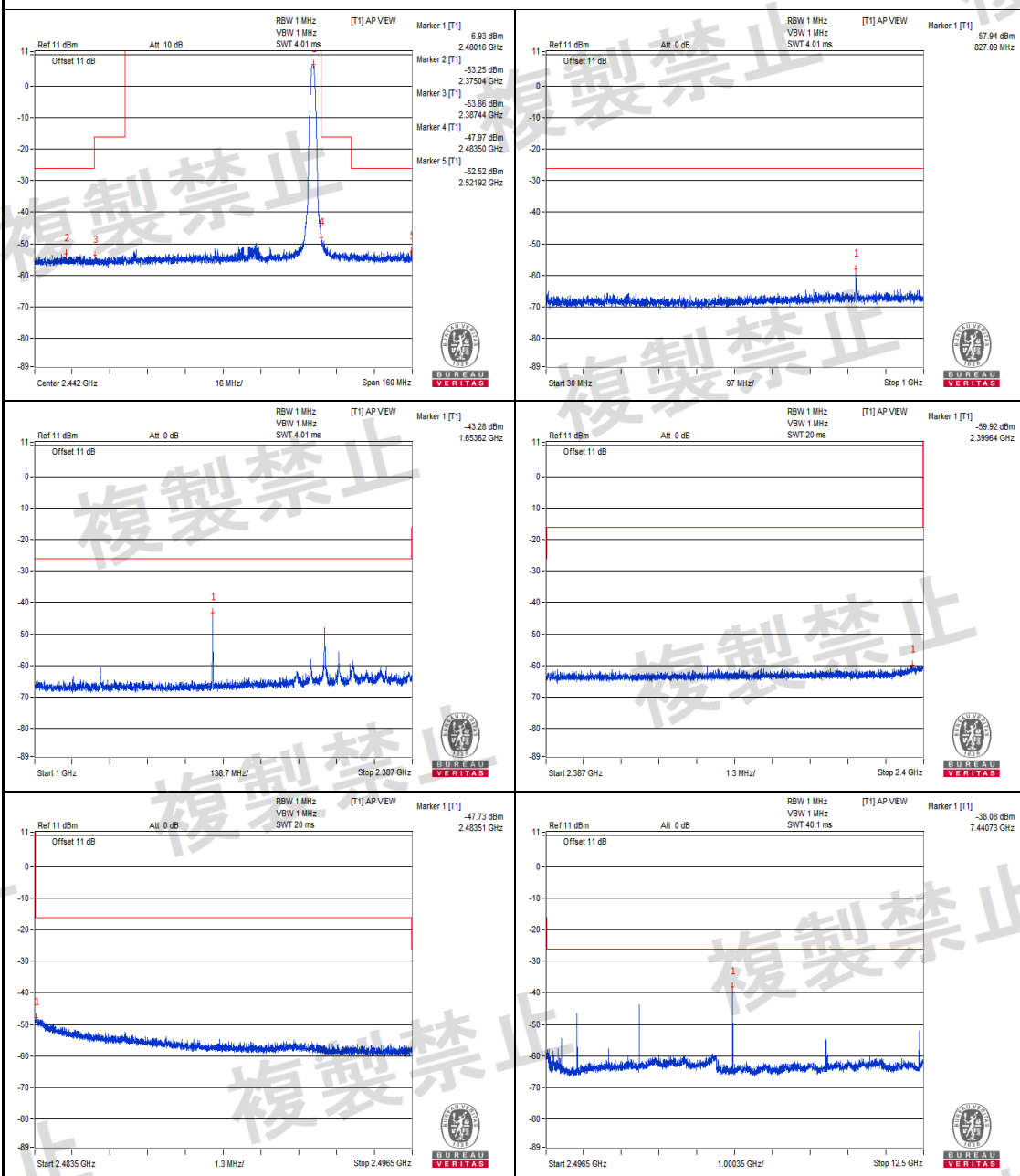
Measurement uncertainty: $\pm 3.93\text{dB}$



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Test Report No.: RJ2507WDG0179-1

V-10% Channel 78



Measurement uncertainty: $\pm 3.93\text{dB}$



**BUREAU
VERITAS**

Test Report No.: RJ2507WDG0179-1

3.4.1 SUMMARY OF TEST RESULTS – MODE C

8DPSK

TEST CHANNEL		CH 0 (2402MHz)		CH 39 (2441MHz)		LIMIT (uW/MHz)	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)	MEASURE. VALUE (uW/MHz)	FREQUENCY (MHz)	MEASURE. VALUE (uW/MHz)		
Vnormal	30.0MHz to 1000.0MHz	800.660	0.001185	814.000	0.001076	2.5	PASS
	1000.0MHz to 2387MHz	1601.260	0.031229	1627.610	0.032807	2.5	PASS
	2387.0MHz to 2400.0MHz	2399.990	3.924372	2399.900	0.001746	25	PASS
	2483.5MHz to 2496.5MHz	2493.460	0.00112	2487.700	0.002017	25	PASS
	2496.5MHz to 12500.0MHz	7205.640	0.092228	7323.180	0.078416	2.5	PASS
V+10%	30.0MHz to 1000.0MHz	800.660	0.000985	814.240	0.001182	2.5	PASS
	1000.0MHz to 2387MHz	1601.610	0.031456	1627.610	0.033326	2.5	PASS
	2387.0MHz to 2400.0MHz	2400.000	4.362578	2397.990	0.001513	25	PASS
	2483.5MHz to 2496.5MHz	2485.180	0.00115	2487.590	0.001791	25	PASS
	2496.5MHz to 12500.0MHz	7205.640	0.095026	7323.180	0.076465	2.5	PASS
V-10%	30.0MHz to 1000.0MHz	800.900	0.001018	813.760	0.00113	2.5	PASS
	1000.0MHz to 2387MHz	1601.260	0.031473	1627.270	0.033149	2.5	PASS
	2387.0MHz to 2400.0MHz	2399.990	4.277099	2396.880	0.001643	25	PASS
	2483.5MHz to 2496.5MHz	2496.430	0.001133	2486.220	0.002049	25	PASS
	2496.5MHz to 12500.0MHz	7205.640	0.092509	7323.180	0.08039	2.5	PASS



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Test Report No.: RJ2507WDG0179-1

TEST CHANNEL		CH 78 (2480MHz)		LIMIT (uW/MHz)	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)	MEASURE. VALUE (uW/MHz)		
Vnormal	30.0MHz to 1000.0MHz	826.850	0.001036	2.5	PASS
	1000.0MHz to 2387MHz	1653.620	0.034675	2.5	PASS
	2387.0MHz to 2400.0MHz	2399.870	0.00093	25	PASS
	2483.5MHz to 2496.5MHz	2483.520	0.014652	25	PASS
	2496.5MHz to 12500.0MHz	7440.720	0.115211	2.5	PASS
V+10%	30.0MHz to 1000.0MHz	826.610	0.001024	2.5	PASS
	1000.0MHz to 2387MHz	1653.620	0.03298	2.5	PASS
	2387.0MHz to 2400.0MHz	2399.690	0.001002	25	PASS
	2483.5MHz to 2496.5MHz	2483.580	0.014096	25	PASS
	2496.5MHz to 12500.0MHz	7440.720	0.114302	2.5	PASS
V-10%	30.0MHz to 1000.0MHz	826.850	0.001118	2.5	PASS
	1000.0MHz to 2387MHz	1653.620	0.032641	2.5	PASS
	2387.0MHz to 2400.0MHz	2399.900	0.001117	25	PASS
	2483.5MHz to 2496.5MHz	2483.550	0.012516	25	PASS
	2496.5MHz to 12500.0MHz	7440.720	0.116266	2.5	PASS

NOTE: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.
2. The spectrum plots are attached on the following pages.

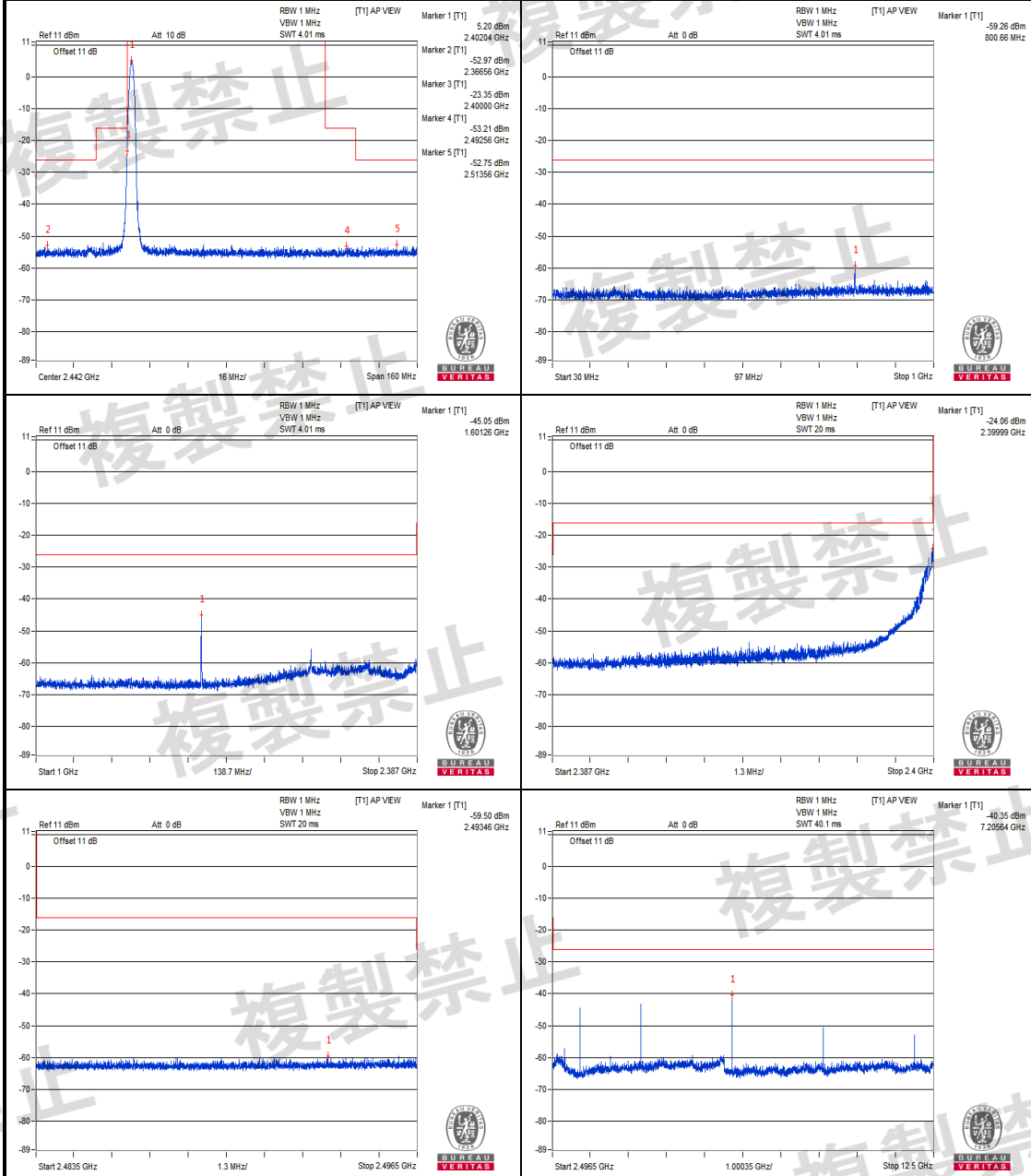


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Test Report No.: RJ2507WDG0179-1

8DPSK

Vnormal
Channel 0



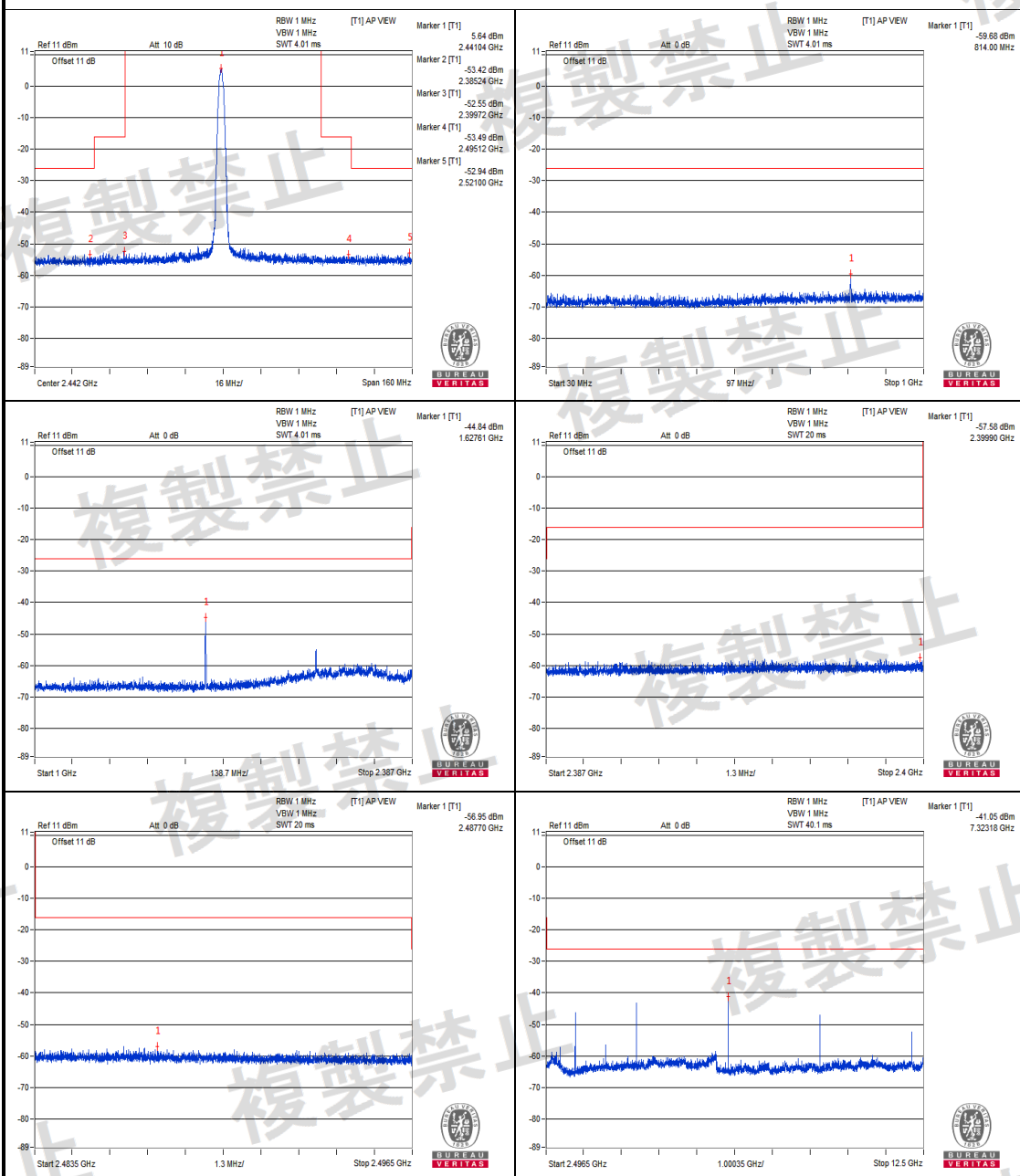
Measurement uncertainty: $\pm 3.93\text{dB}$



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VERITAS

Test Report No.: RJ2507WDG0179-1

Vnormal Channel 39



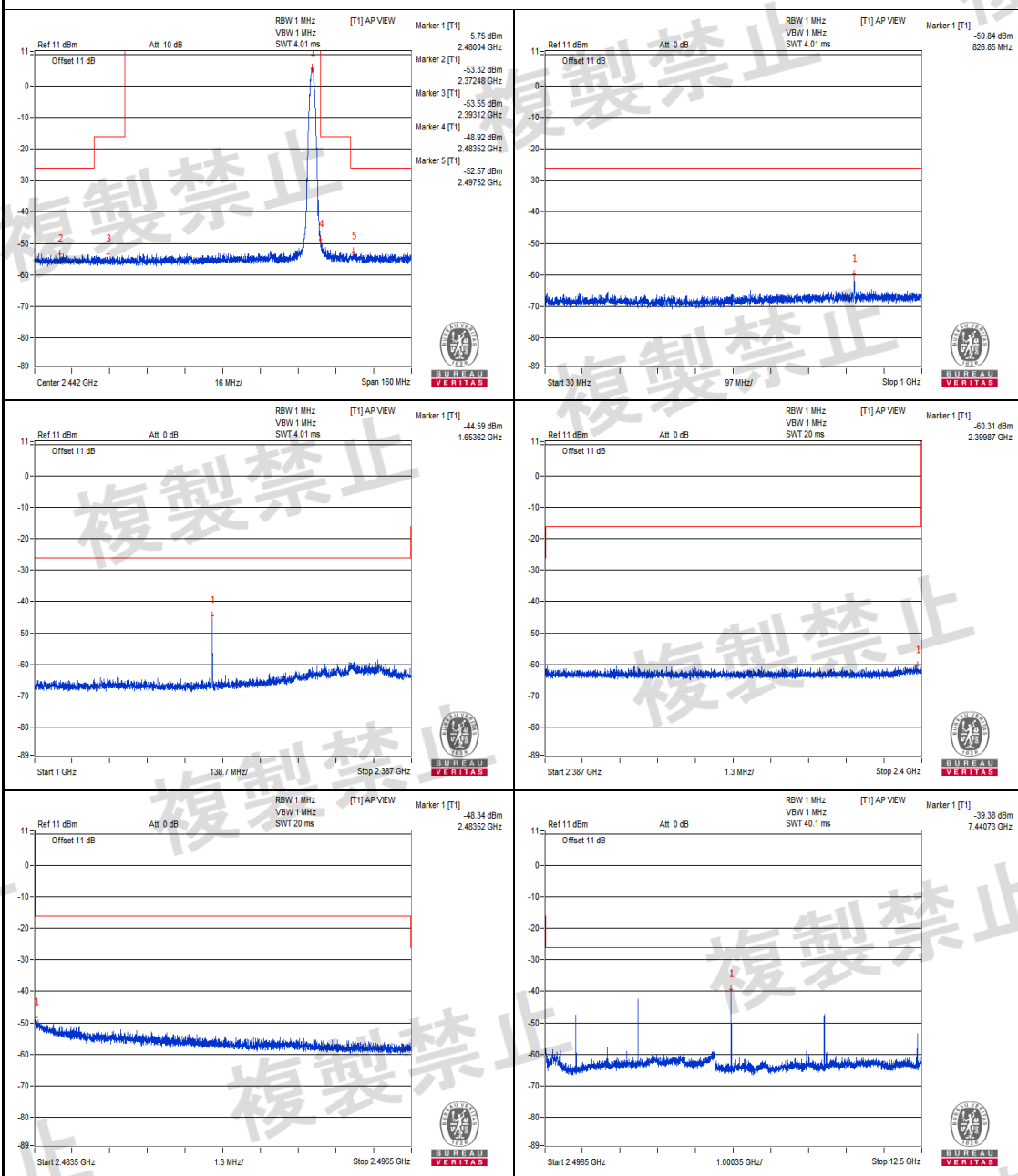
Measurement uncertainty: $\pm 3.93\text{dB}$



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Test Report No.: RJ2507WDG0179-1

Vnormal Channel 78



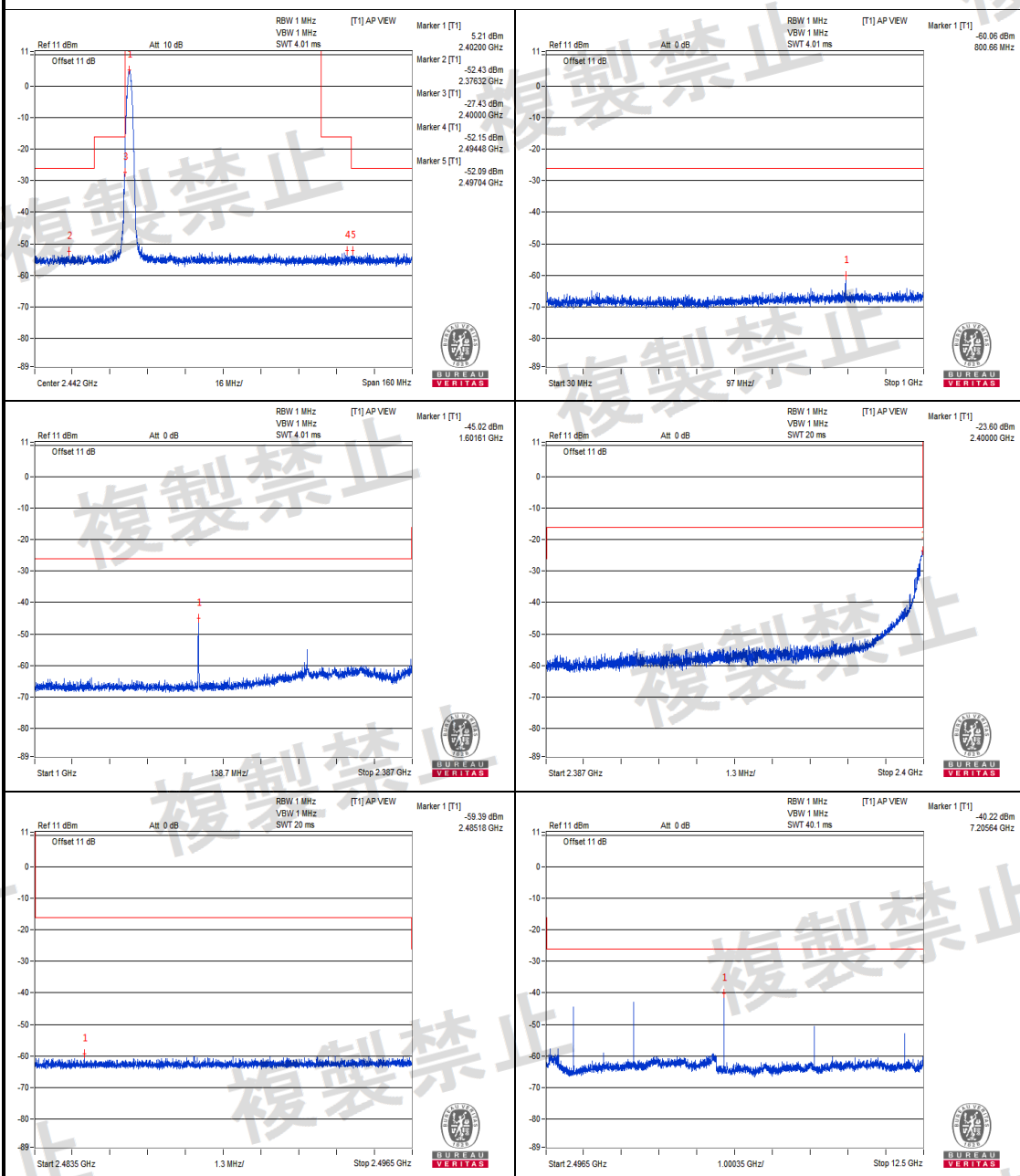
Measurement uncertainty: $\pm 3.93\text{dB}$



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VERITAS

Test Report No.: RJ2507WDG0179-1

V+10%
Channel 0



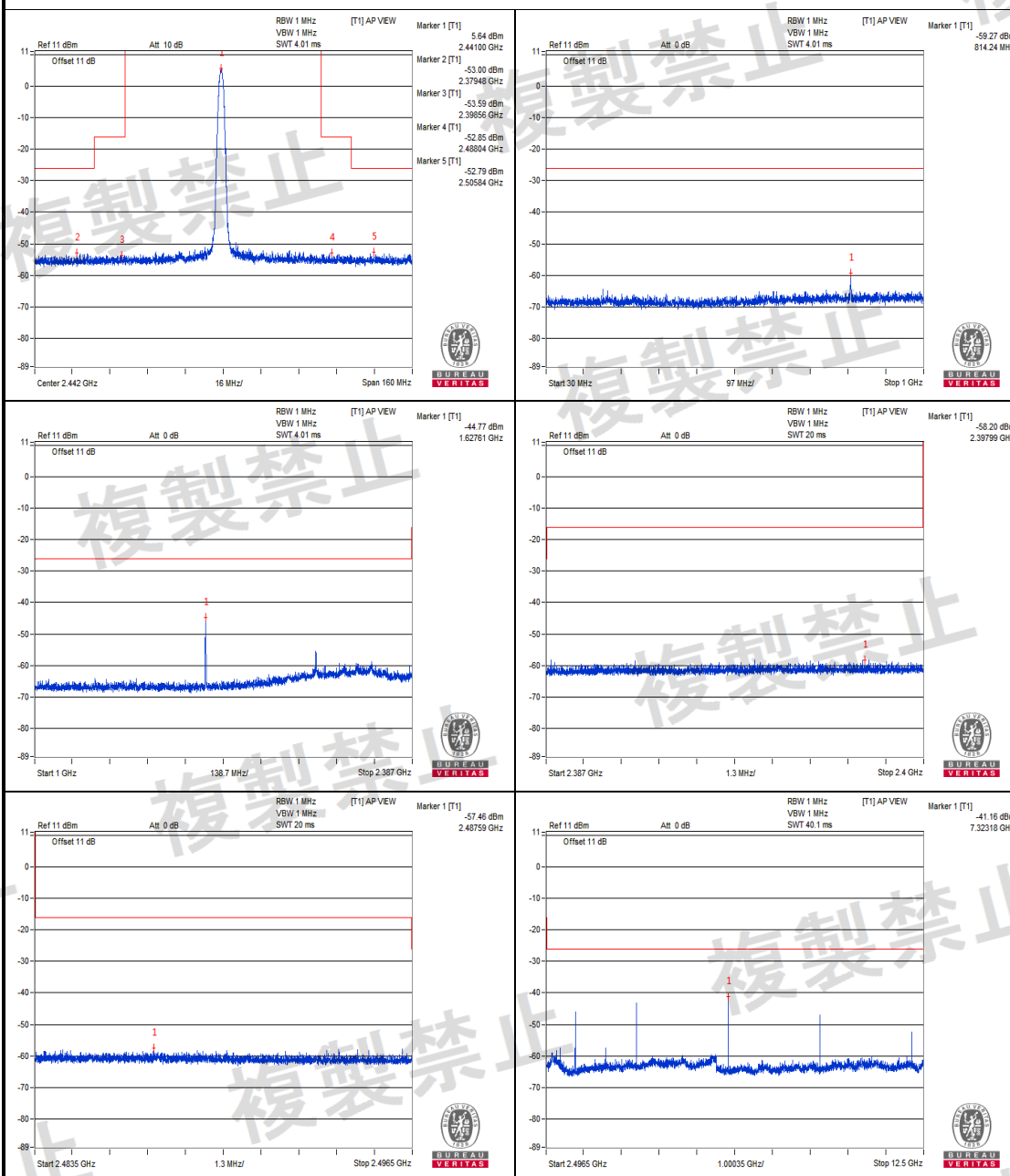
Measurement uncertainty: $\pm 3.93\text{dB}$



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VERITAS

Test Report No.: RJ2507WDG0179-1

V+10%
Channel 39



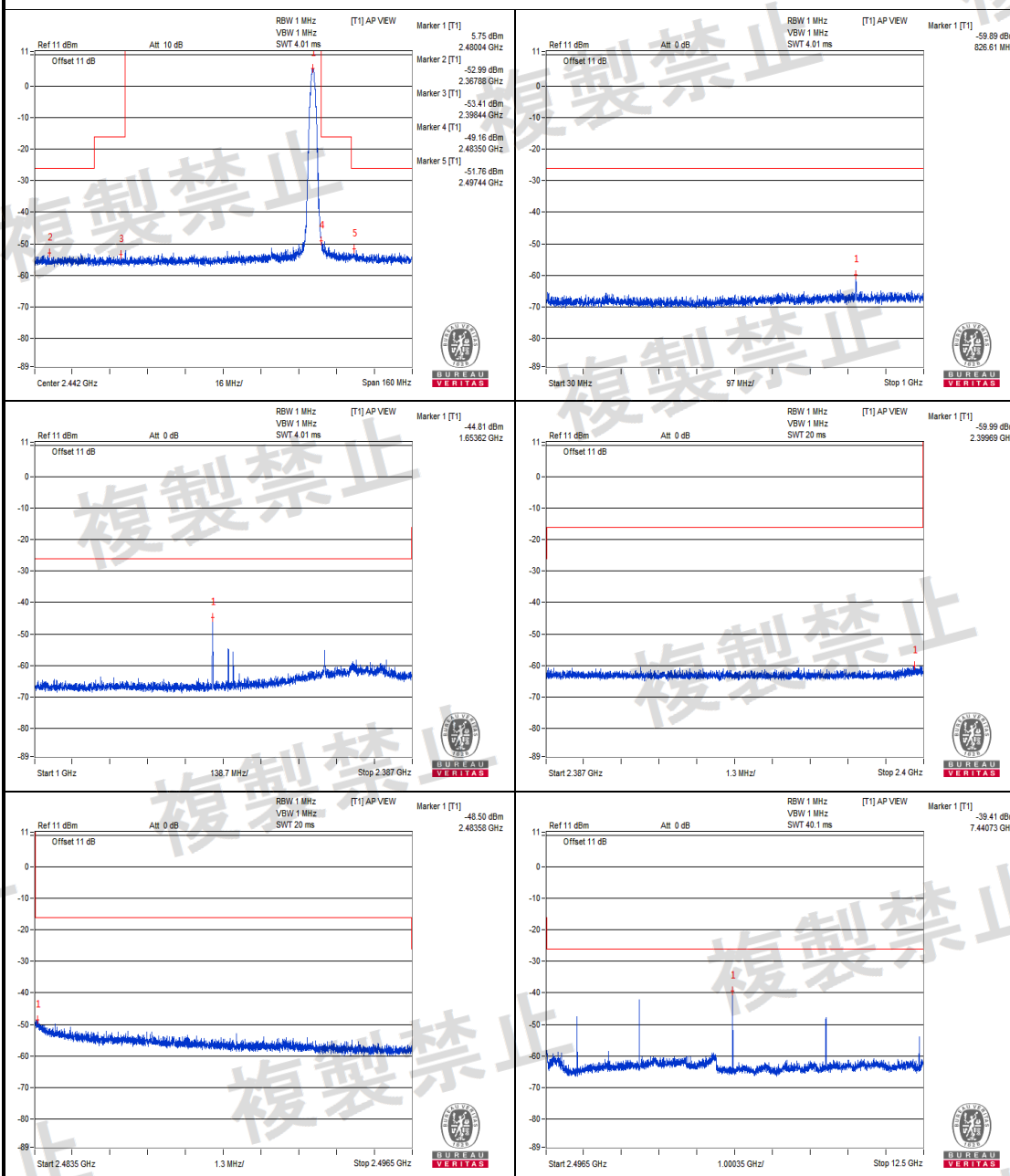
Measurement uncertainty: $\pm 3.93\text{dB}$



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VERITAS

Test Report No.: RJ2507WDG0179-1

V+10%
Channel 78



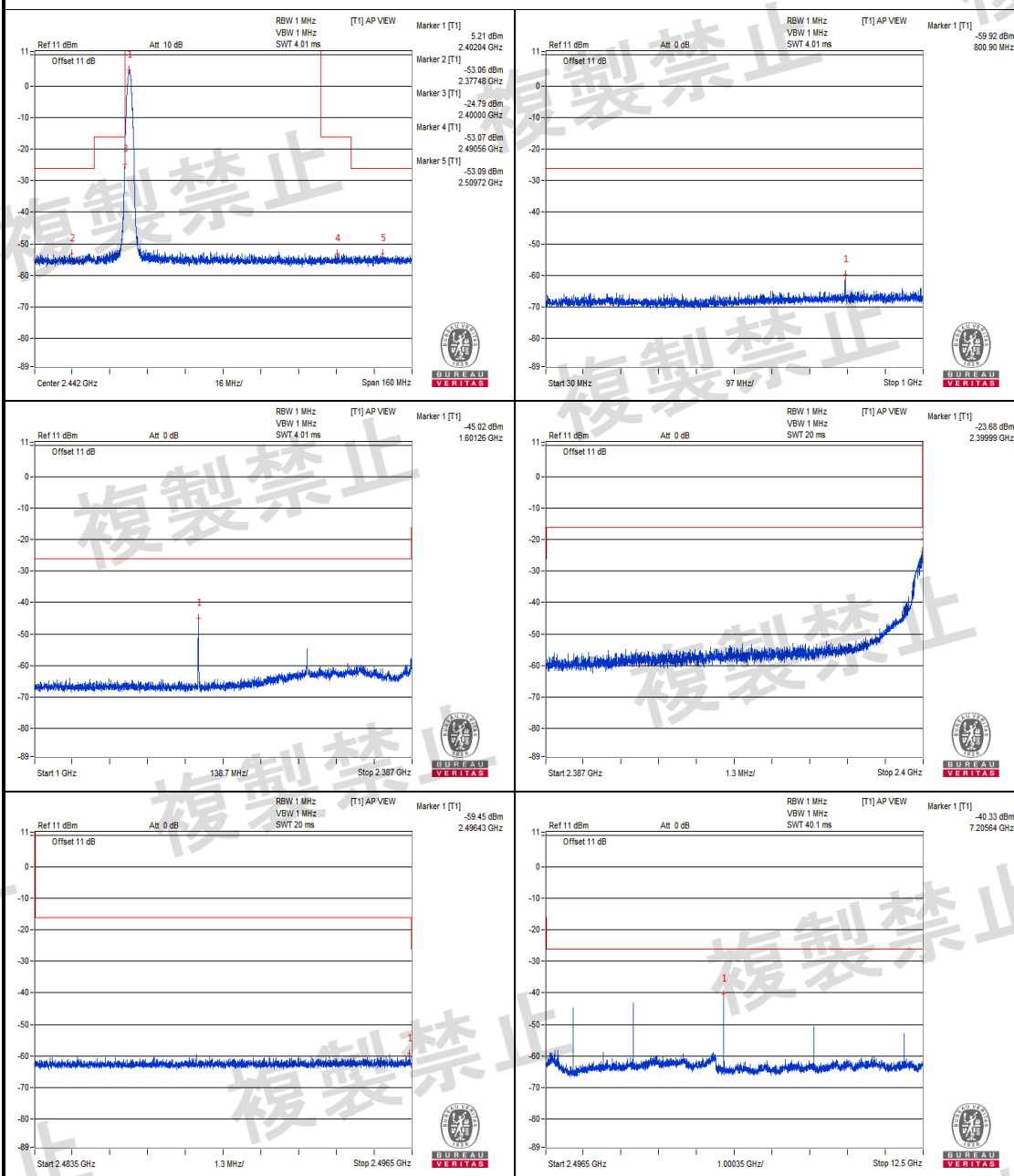
Measurement uncertainty: $\pm 3.93\text{dB}$



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Test Report No.: RJ2507WDG0179-1

V-10% Channel 0



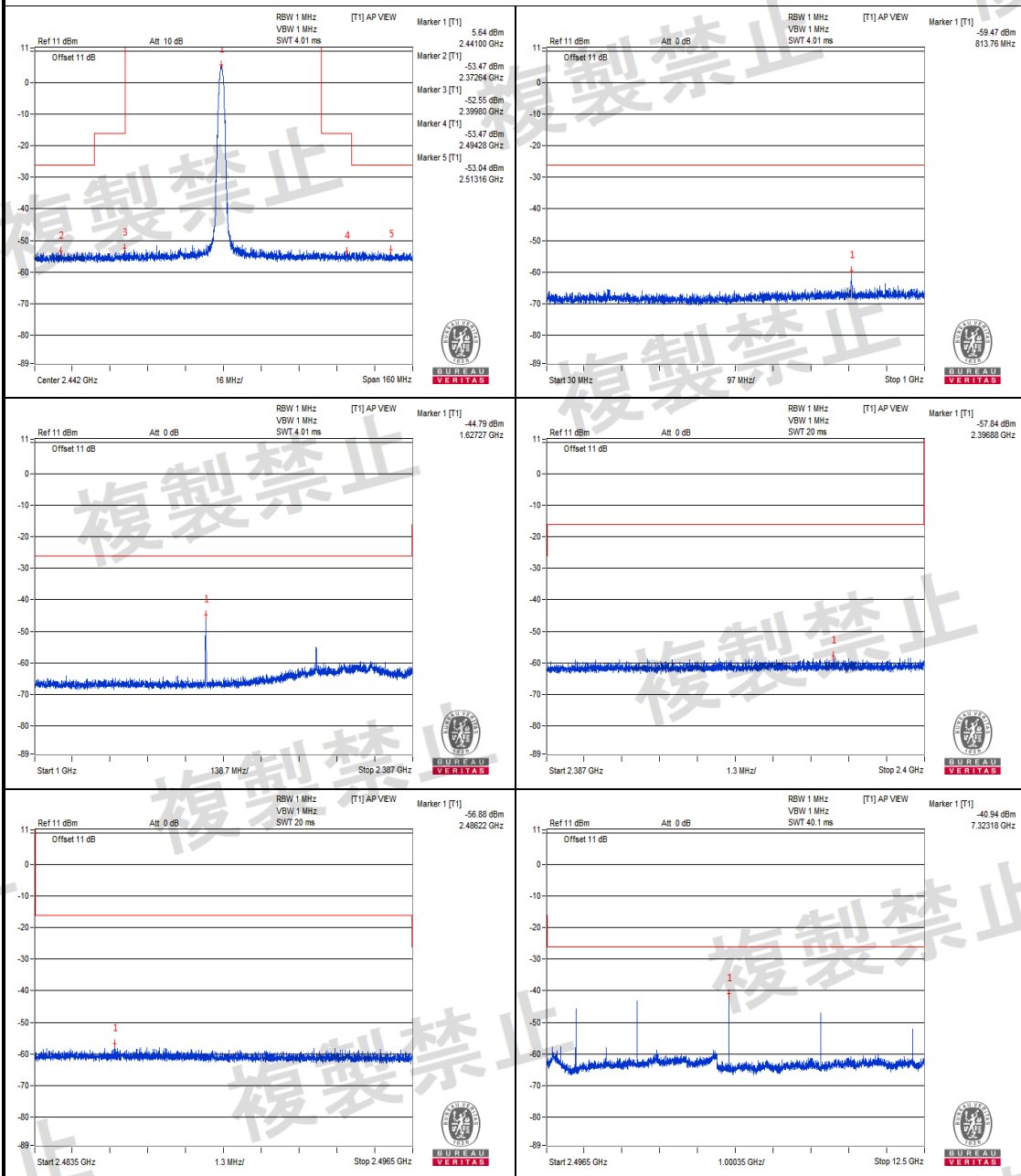
Measurement uncertainty: $\pm 3.93\text{dB}$



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Test Report No.: RJ2507WDG0179-1

V-10%
Channel 39



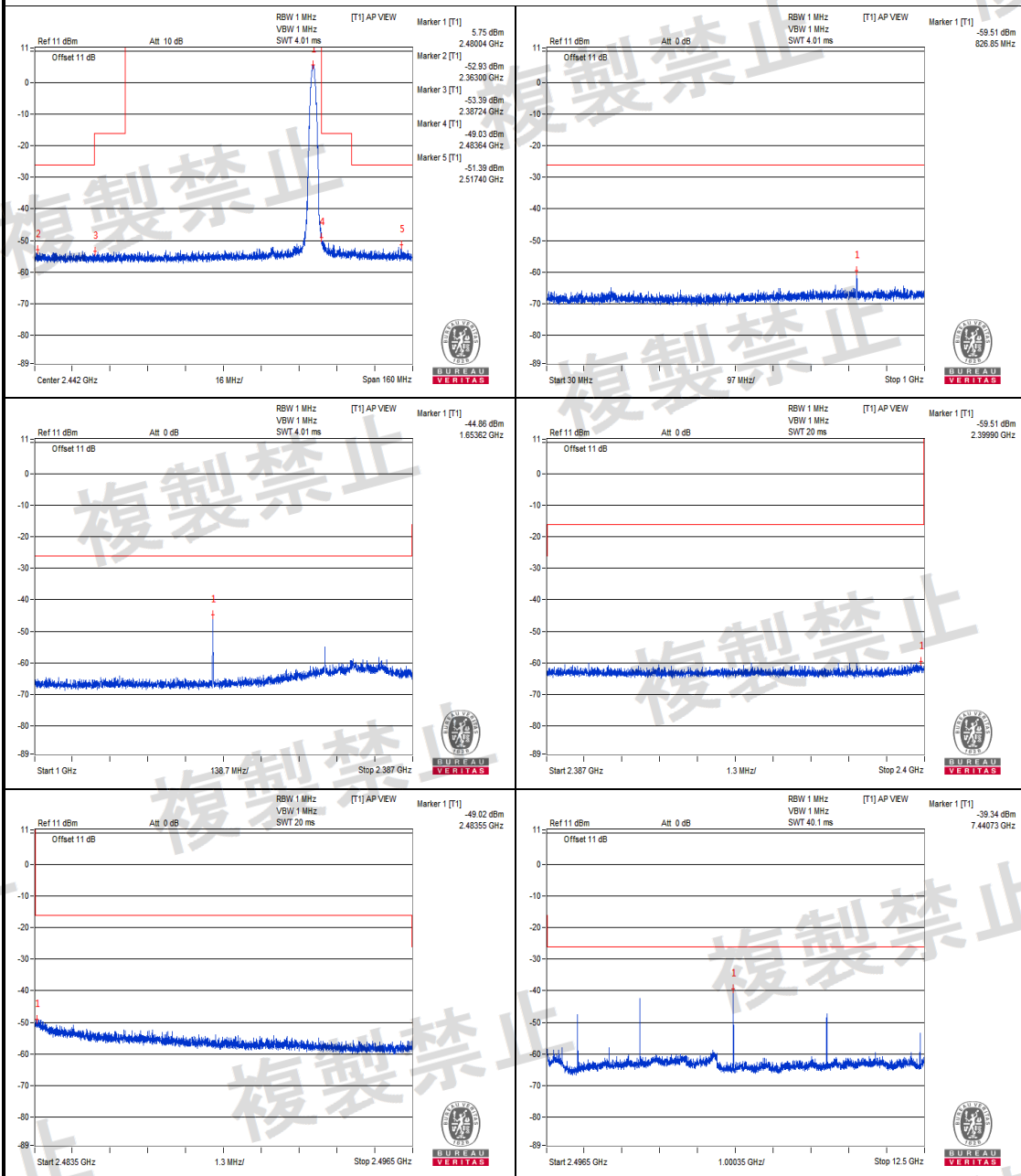
Measurement uncertainty: $\pm 3.93\text{dB}$



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Test Report No.: RJ2507WDG0179-1

V-10% Channel 78



Measurement uncertainty: $\pm 3.93\text{dB}$



3.5 ANTENNA POWER MEASUREMENT

3.5.1 LIMITS OF ANTENNA POWER

Antenna power shall be 3mW/MHz or less.

Tolerance of antenna power shall be +20% (upper value).

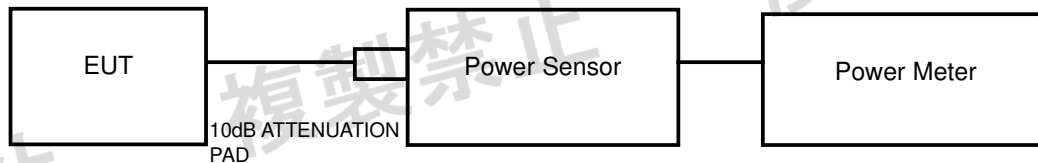
3.5.2 TEST METHOD

According to MIC Notice No. 88 Appendix 43.

3.5.3 CONDUCTED OUTPUT POWER

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH		
TEST CONDITION	Conducted output power (dBm)		
	GFSK	$\pi/4$ -DQPSK	8DPSK
Voltage normal	7.97	4.71	4.78
Voltage max	8.13	4.95	4.98
Voltage min	7.82	4.52	4.56

3.5.4 TEST SETUP





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Test Report No.: RJ2507WDG0179-1

3.5.5 TEST RESULTS – MODE A

For GFSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
TEST CONDITION	Conducted power density (mW/MHz)
	HOPPING MODE
Voltage normal	0.088008
Voltage max	0.091310
Voltage min	0.085020
Rated power	0.3
Tolerance of antenna power	< 0.36

Note: 1. Conducted power density=Conducted output power/Spread-Spectrum

2. Tolerance of antenna power shall be +20% (upper value).

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
TEST CONDITION	EIRP power density (mW/MHz)
	HOPPING MODE
Voltage normal	0.128683
Voltage max	0.133511
Voltage min	0.124314

NOTE: The value of EIRP densities are "calculated" values.



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Test Report No.: RJ2507WDG0179-1

3.5.6 TEST RESULTS – MODE B

For $\pi/4$ DQPSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
TEST CONDITION	Conducted power density (mW/MHz)
	HOPPING MODE
Normal Voltage	0.041313
Voltage max	0.043660
Voltage min	0.039767
Rated power	0.1
Tolerance of antenna power	< 0.12

Note: 1. Conducted power density=Conducted output power/Spread-Spectrum

2. Tolerance of antenna power shall be +20% (upper value).

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
TEST CONDITION	EIRP power density (mW/MHz)
	HOPPING MODE
Normal Voltage	0.060407
Voltage max	0.063839
Voltage min	0.058146

NOTE: The value of EIRP power density is "calculated" values.



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Test Report No.: RJ2507WDG0179-1

3.5.7 TEST RESULTS – MODE C

For 8DPSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
TEST CONDITION	Conducted power density (mW/MHz)
	HOPPING MODE
Normal Voltage	0.042220
Voltage max	0.044210
Voltage min	0.039910
Rated power	0.1
Tolerance of antenna power	<0.12

Note: 1. Conducted power density=Conducted output power/Spread-Spectrum

2. Tolerance of antenna power shall be +20% (upper value).

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
TEST CONDITION	EIRP power density (mW/MHz)
	HOPPING MODE
Normal Voltage	0.061733
Voltage max	0.064643
Voltage min	0.058355

NOTE: The value of EIRP densities are "calculated" values.



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Test Report No.: RJ2507WDG0179-1

3.5.8 TEST RESULTS – MODE D

For GFSK <Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
TEST CONDITION	Conducted power density (mW/MHz)
	HOPPING MODE
Normal Voltage	0.346196
Voltage max	0.359188
Voltage min	0.334442
Rated power	0.5
Tolerance of antenna power	<0.60

Note: 1. Conducted power density=Conducted output power/Spread-Spectrum
2. Tolerance of antenna power shall be +20% (upper value).

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
TEST CONDITION	EIRP power density (mW/MHz)
	HOPPING MODE
Normal Voltage	0.506200
Voltage max	0.525196
Voltage min	0.489013

NOTE: The value of EIRP densities are "calculated" values.



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Test Report No.: RJ2507WDG0179-1

3.5.9 TEST RESULTS – MODE E

For $\pi/4$ DQPSK <Enable AFH Function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
TEST CONDITION	Conducted power density (mW/MHz)
	HOPPING MODE
Normal Voltage	0.161640
Voltage max	0.170824
Voltage min	0.153880
Rated power	0.3
Tolerance of antenna power	< 0.36

Note: 1. Conducted power density = Conducted output power / Spread-Spectrum
2. Tolerance of antenna power shall be +20% (upper value).

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
TEST CONDITION	EIRP power density (mW/MHz)
	HOPPING MODE
Normal Voltage	0.236346
Voltage max	0.249775
Voltage min	0.225000

NOTE: The value of EIRP densities are "calculated" values.



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Test Report No.: RJ2507WDG0179-1

3.5.10 TEST RESULTS – MODE F

For 8DPSK <Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
TEST CONDITION	Conducted power density (mW/MHz)
	HOPPING MODE
Normal Voltage	0.163374
Voltage max	0.172008
Voltage min	0.156152
Rated power	0.3
Tolerance of antenna power	<0.36

Note: 1. Conducted power density=Conducted output power/Spread-Spectrum
2. Tolerance of antenna power shall be +20% (upper value).

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
TEST CONDITION	EIRP power density (mW/MHz)
	HOPPING MODE
Normal Voltage	0.238882
Voltage max	0.251506
Voltage min	0.228322

NOTE: The value of EIRP densities are "calculated" values.



3.6 SPURIOUS EMISSIONS FOR RECEIVER

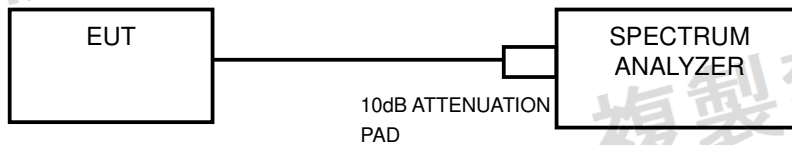
3.6.1 LIMITS OF SPURIOUS EMISSIONS FOR RECEIVER

Frequencies (MHz)	Limit
Below 1GHz	$\leq 4\text{nW}$ (-54dBm)
Above 1GHz	$\leq 20\text{nW}$ (-47dBm)

3.6.2 TEST METHOD

According to MIC Notice No. 88 Appendix 43.

3.6.3 TEST SETUP





**BUREAU
VERITAS**

Test Report No.: RJ2507WDG0179-1

3.6.4 SUMMARY OF TEST RESULTS – MODE A

TEST CHANNEL		CH 0 (2402MHz)		CH 39 (2441MHz)		LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)	MEASURE. VALUE	FREQUENCY (MHz)	MEASURE. VALUE		
Vnormal	below 1GHz	995.150	0.056788nW	706.090	0.037926nW	4nW	PASS
	above 1GHz	6977.120	1.116216nW	6925.370	1.007591nW	20nW	PASS
V+10%	below 1GHz	778.840	0.03702nW	810.600	0.039171nW	4nW	PASS
	above 1GHz	6149.120	1.123279nW	6945.500	1.078054nW	20nW	PASS
V-10%	below 1GHz	850.370	0.046063nW	985.690	0.04975nW	4nW	PASS
	above 1GHz	6957.000	1.190277nW	6925.370	1.202787nW	20nW	PASS
TEST CHANNEL		CH 78 (2480MHz)				LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)		MEASURE. VALUE			
Vnormal	below 1GHz	938.890		0.034059nW		4nW	PASS
	above 1GHz	5795.500		1.067775nW		20nW	PASS
V+10%	below 1GHz	804.540		0.04252nW		4nW	PASS
	above 1GHz	6980.000		1.08489nW		20nW	PASS
V-10%	below 1GHz	881.170		0.038888nW		4nW	PASS
	above 1GHz	6997.250		1.360216nW		20nW	PASS

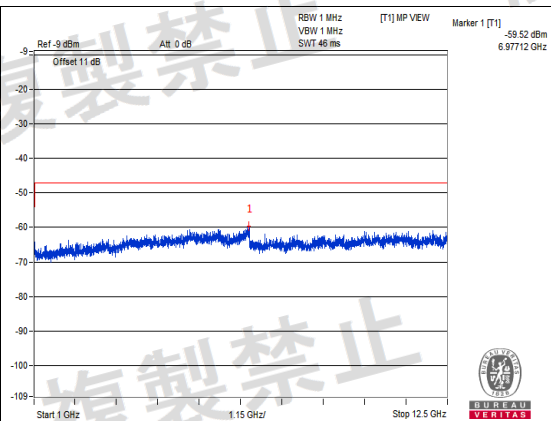
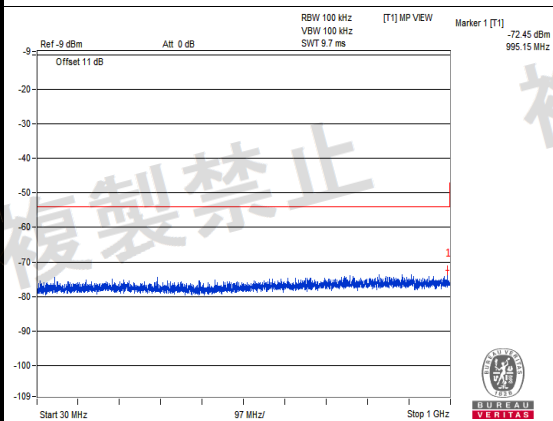
NOTE: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.
2. The spectrum plots are attached on the following pages.



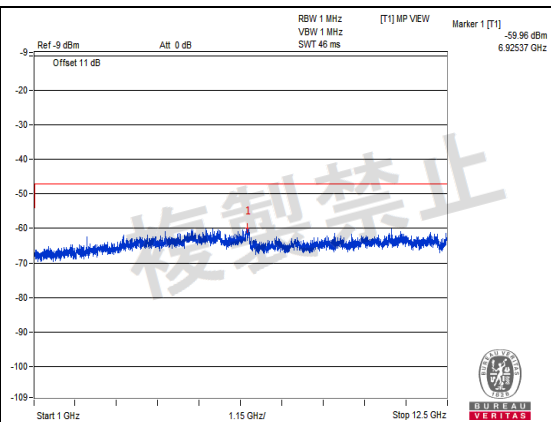
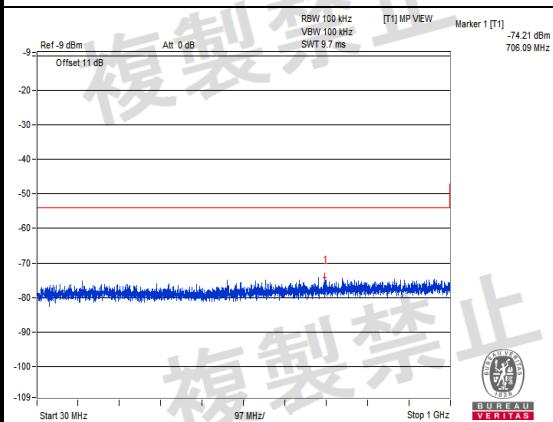
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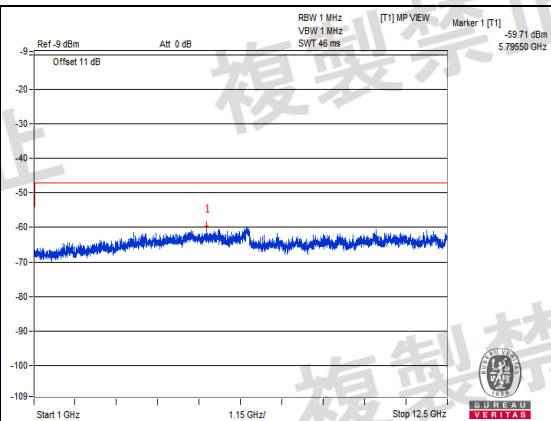
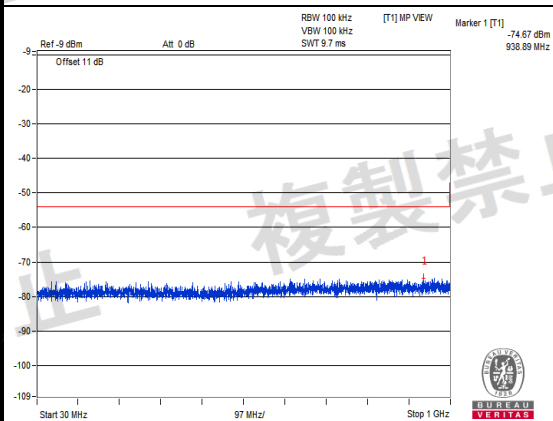
Vnormal



Channel 0



Channel 39



Channel 78

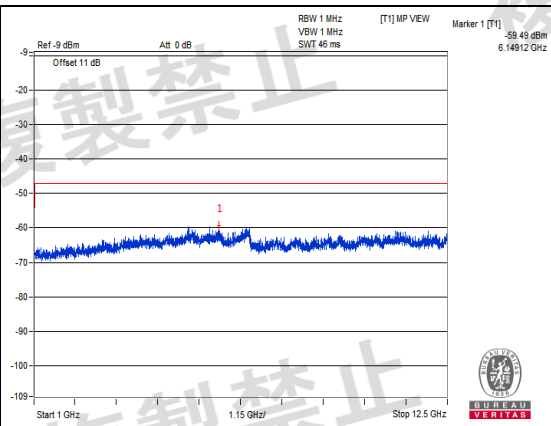
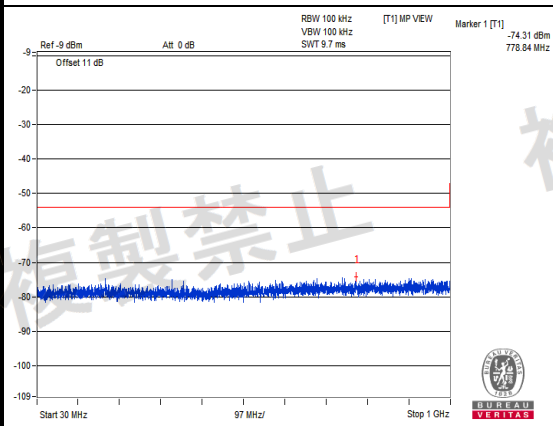
Measurement uncertainty: $\pm 3.93\text{dB}$



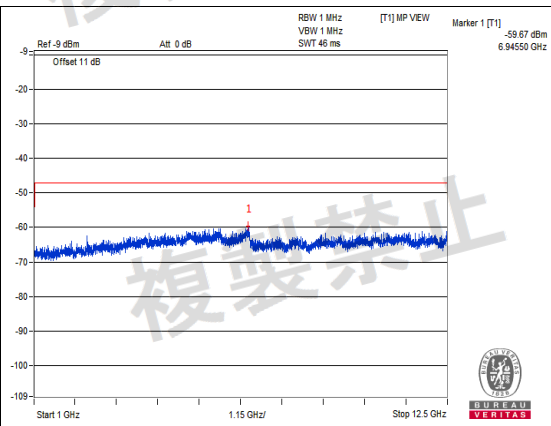
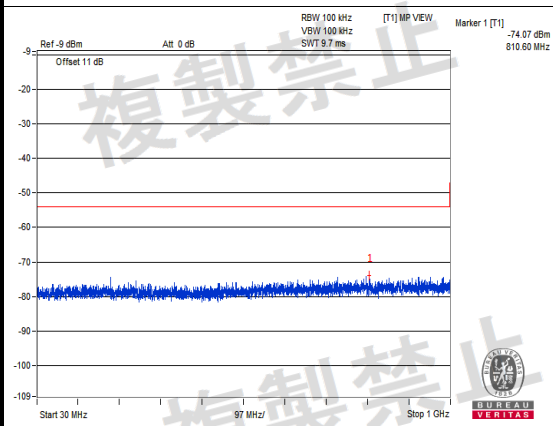
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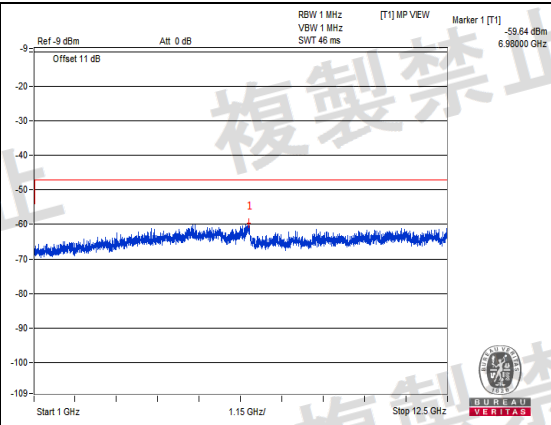
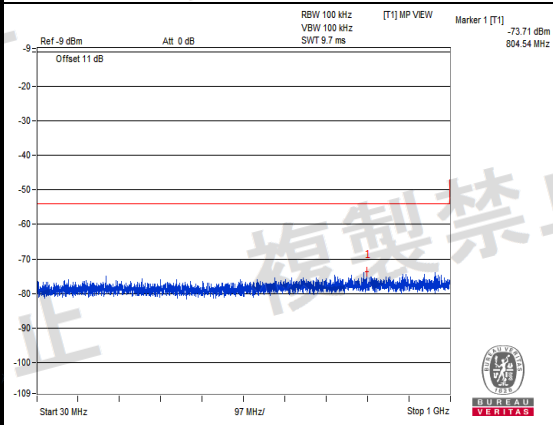
V+10%



Channel 0



Channel 39



Channel 78

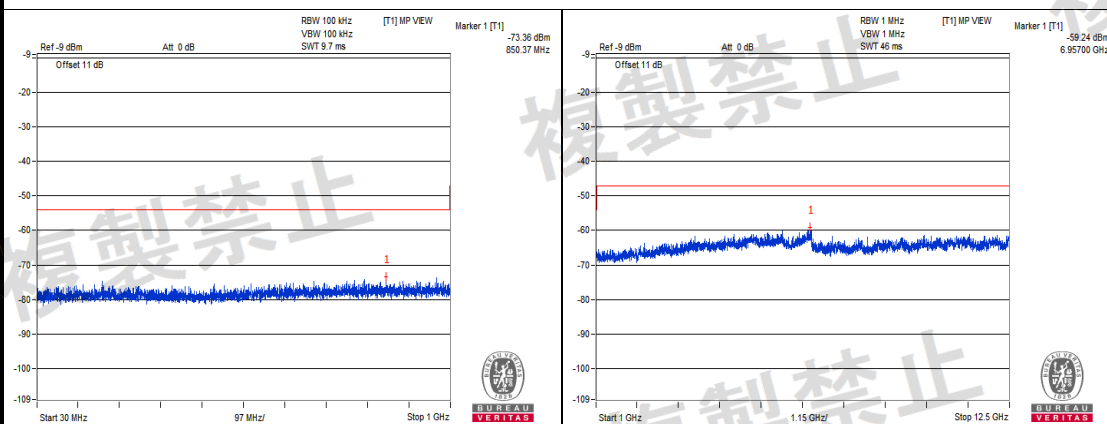
Measurement uncertainty: $\pm 3.93\text{dB}$



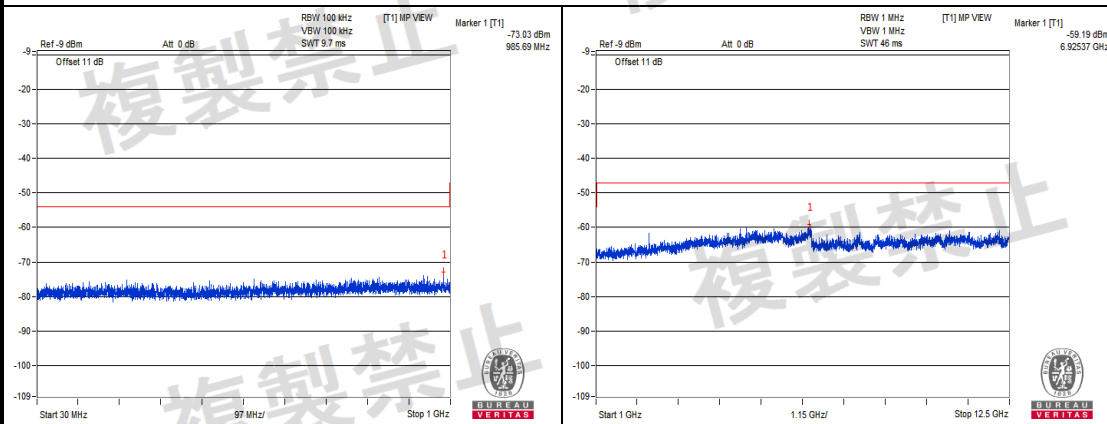
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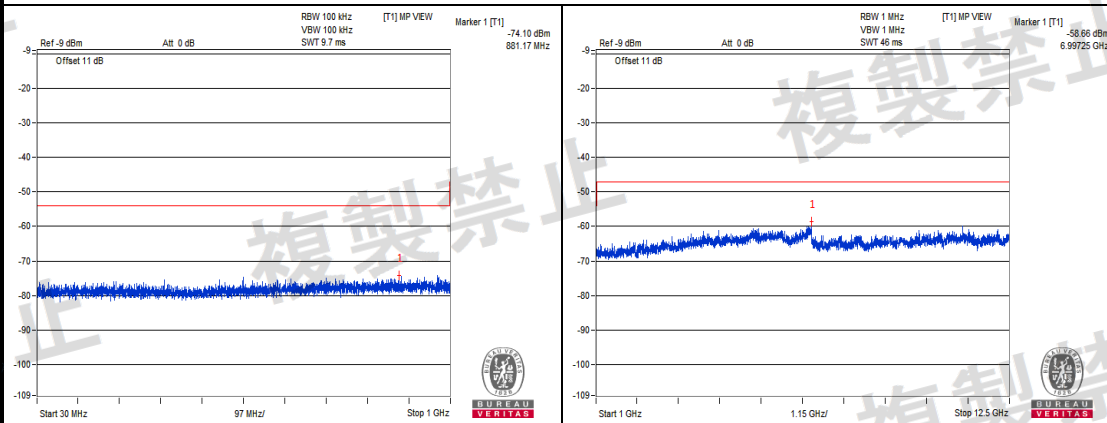
V-10%



Channel 0



Channel 39



Channel 78

Measurement uncertainty: $\pm 3.93\text{dB}$



3.7 DWELL TIME

3.7.1 LIMITS OF DWELL TIME

The frequency retention time in the frequency hopping method shall be 0.4 second or less. The total sum of the frequency retention time in any frequency within the time obtained by multiplying the diffusion rate by 0.4 second shall be 0.4 second or shorter.

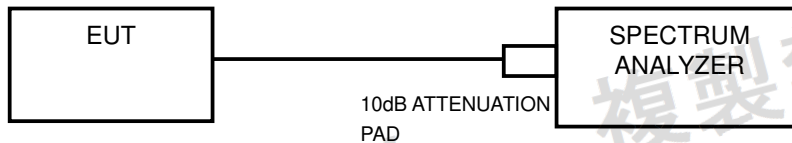
Formula : **(Normal mode)** dwell time = [Spreading rate/79] x duty ratio x 0.4 seconds

(AFH mode) dwell time = [Spreading rate/20] x duty ratio x 0.4 seconds

3.7.2 TEST METHOD

According to MIC Notice No. 88 Appendix 43.

3.7.3 TEST SETUP





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3.7.4 TEST RESULTS – MODE A

For GFSK:

Test Condition	23 deg.C, 58 % RH					
	Mode	SPREADING RATE	[Spreading rate/79]*0.4	Duty Ratio	Result (msec)	Limit (msec)
Normal Voltage	DH1	71.20	0.360	0.288	103.514	400
	DH3	71.20	0.360	0.640	230.400	400
	DH5	71.20	0.360	0.750	270.000	400
Voltage +10%	DH1	71.20	0.360	0.288	103.514	400
	DH3	71.20	0.360	0.640	230.400	400
	DH5	71.20	0.360	0.750	270.000	400
42Voltage -10%	DH1	71.20	0.360	0.288	103.514	400
	DH3	71.20	0.360	0.640	230.400	400
	DH5	71.20	0.360	0.746	268.571	400



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3.7.5 TEST RESULTS – MODE C

For 8DPSK:

Test Condition	Mode	Spreading Rate	(Spreading Rate/79)*0.4	Duty Cycle (msec)	Result (msec)	Limit (msec)
Normal Voltage	3DH1	71.20	0.360	0.300	108.000	400
	3DH3	71.20	0.360	0.643	231.429	400
	3DH5	71.20	0.360	0.767	276.234	400
Normal Voltage +10%	3DH1	71.20	0.360	0.288	103.500	400
	3DH3	71.20	0.360	0.643	231.429	400
	3DH5	71.20	0.360	0.768	276.331	400
Normal Voltage -10%	3DH1	71.60	0.362	0.288	104.075	400
	3DH3	71.60	0.362	0.643	232.714	400
	3DH5	71.60	0.362	0.759	274.611	400



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3.7.6 TEST RESULTS – MODE D

For GFSK< Enable AFH function>:

Test Condition	23 deg.C, 58 % RH					
	Mode	SPREADING RATE	[Spreading rate/20]*0.4	Duty Ratio	Result (msec)	Limit (msec)
Normal Voltage	DH1	18.10	0.362	0.288	104.089	400
	DH3	18.10	0.362	0.640	231.680	400
	DH5	18.10	0.362	0.750	271.500	400
Voltage +10%	DH1	18.10	0.362	0.288	104.089	400
	DH3	18.10	0.362	0.640	231.680	400
	DH5	18.10	0.362	0.750	271.500	400
Voltage -10%	DH1	18.10	0.362	0.288	104.089	400
	DH3	18.10	0.362	0.640	231.680	400
	DH5	18.10	0.362	0.746	270.063	400



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3.7.7 TEST RESULTS – MODE F

For 8DPSK< Enable AFH function>:

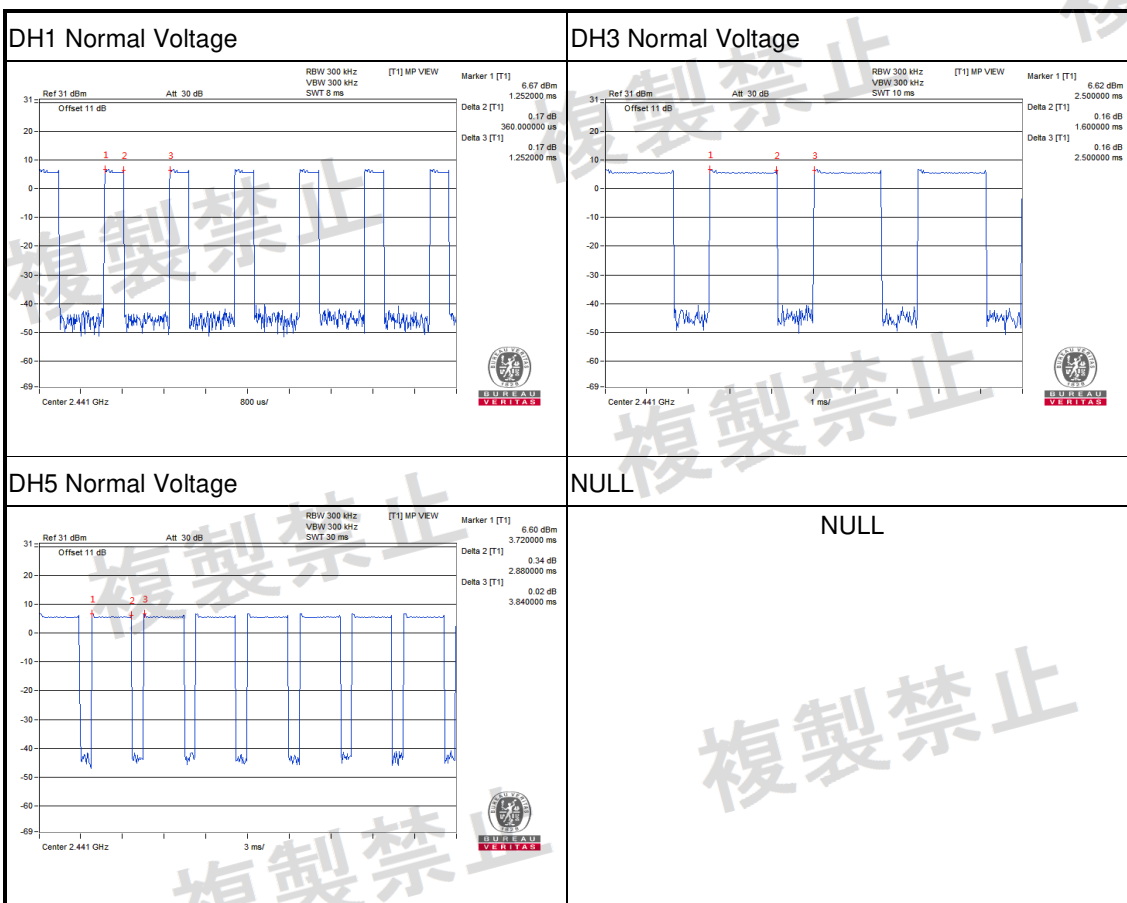
Test Condition	Mode	Spreading Rate	(Spreading Rate/20)*0.4	Duty Cycle (msec)	Result (msec)	Limit (msec)
Normal Voltage	3DH1	18.40	0.368	0.300	110.400	400
	3DH3	18.40	0.368	0.643	236.571	400
	3DH5	18.40	0.368	0.767	282.373	400
Normal Voltage +10%	3DH1	18.30	0.366	0.288	105.225	400
	3DH3	18.30	0.366	0.643	235.286	400
	3DH5	18.30	0.366	0.768	280.936	400
Normal Voltage -10%	3DH1	18.30	0.366	0.288	105.225	400
	3DH3	18.30	0.366	0.643	235.286	400
	3DH5	18.30	0.366	0.759	277.645	400



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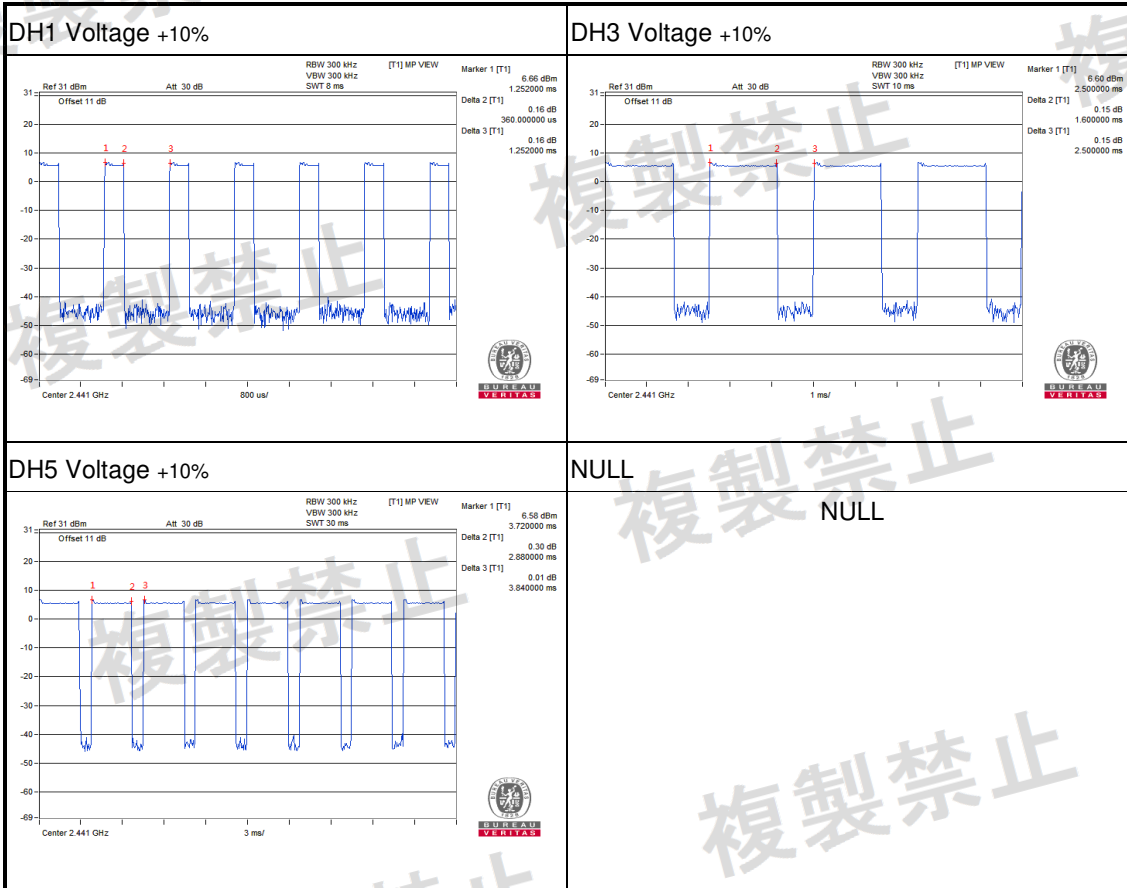
For GFSK:





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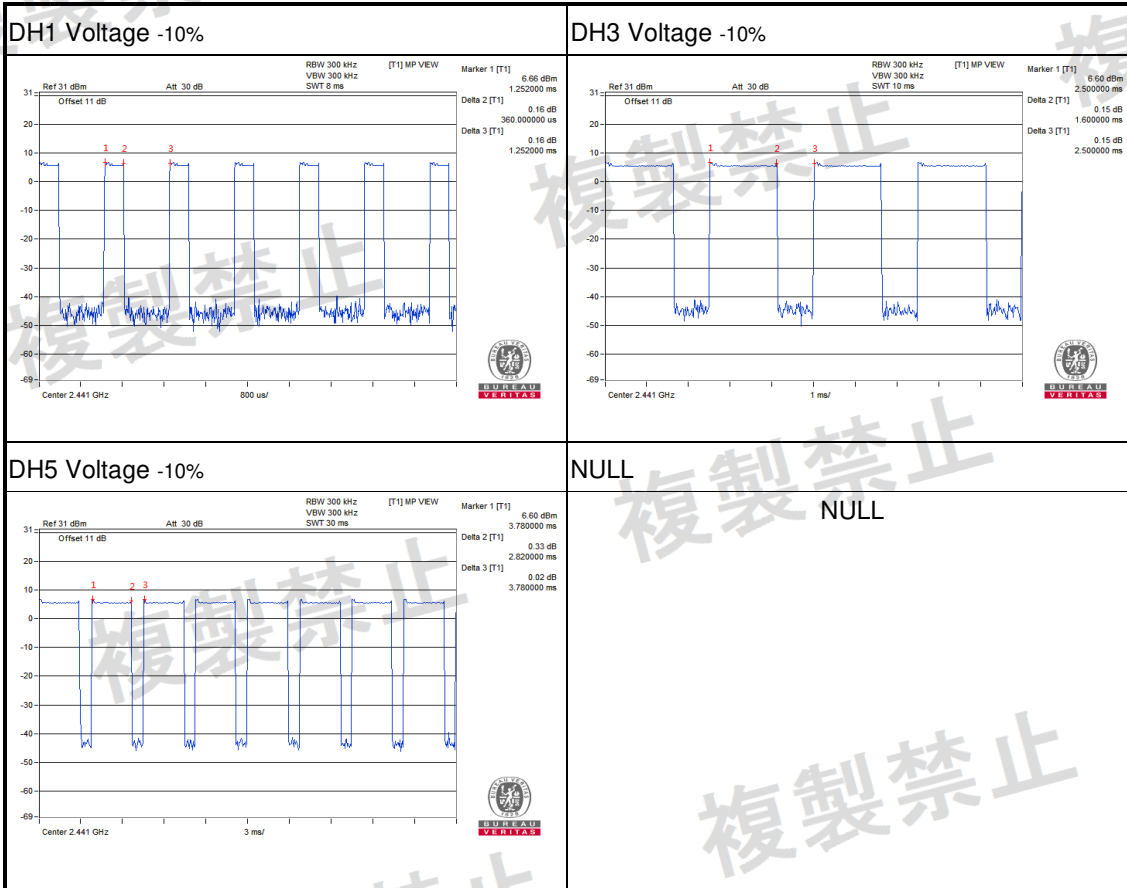
Test Report No.: RJ2507WDG0179-1





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Test Report No.: RJ2507WDG0179-1

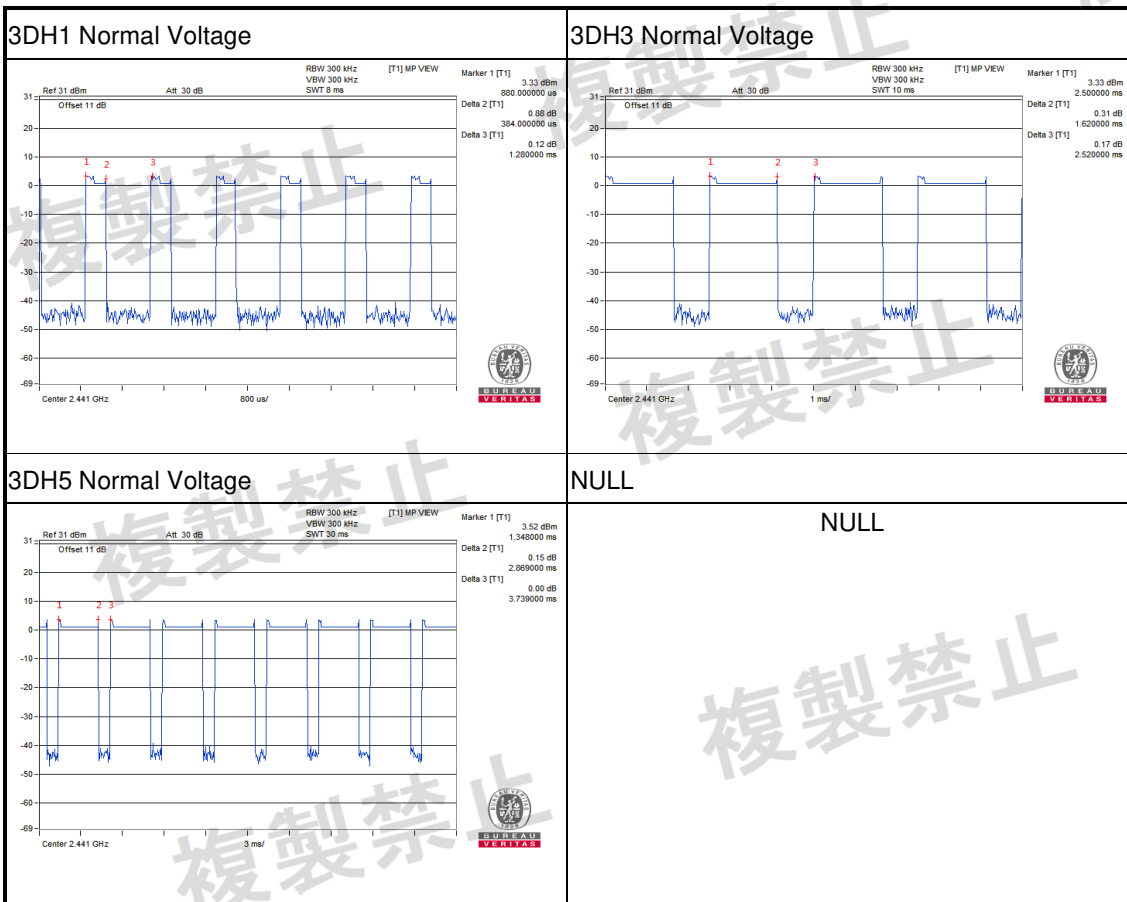




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Test Report No.: RJ2507WDG0179-1

For 8DPSK:

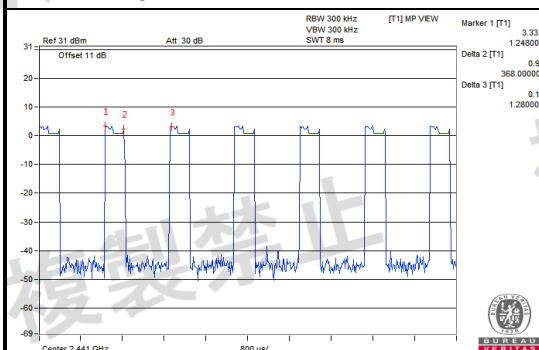




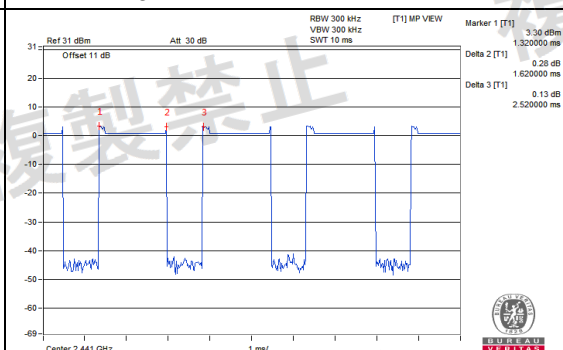
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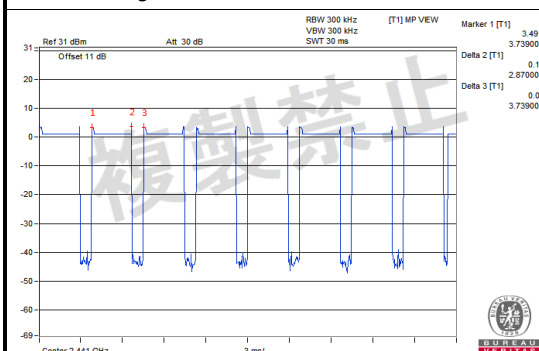
3DH1 Voltage +10%



3DH3 Voltage +10%



3DH5 Voltage +10%



NULL

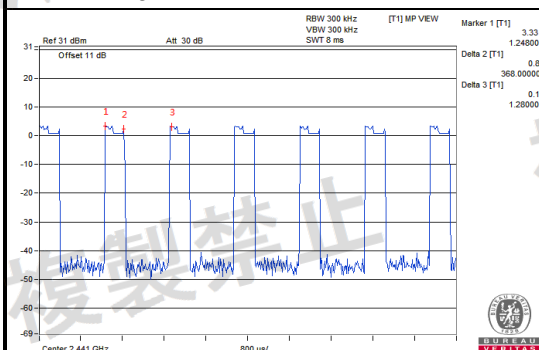
NULL



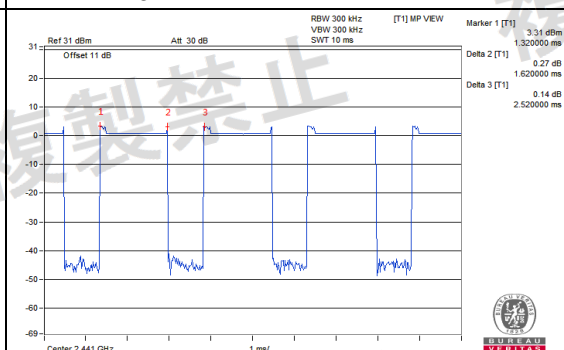
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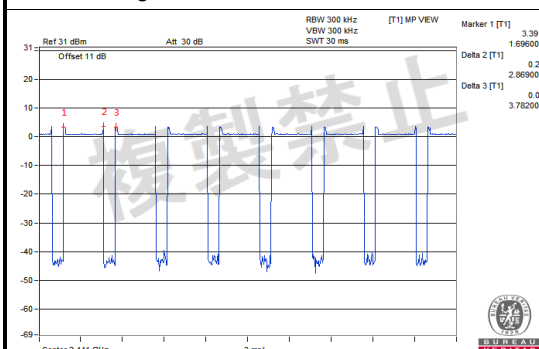
3DH1 Voltage -10%



3DH3 Voltage -10%



3DH5 Voltage -10%



NULL

NULL



3.8 INTERFERENCE PREVENTION FUNCTION

3.8.1 LIMITS OF INTERFERENCE PREVENTION FUNCTION

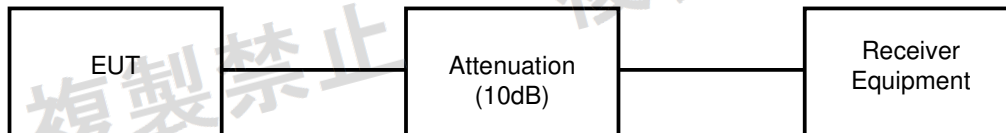
Item	Limits
Identification	≥48bits

Note: In ASCII, a character usually takes 8 bits.

3.8.2 TEST METHOD

According to MIC Notice No. 88 Appendix 43.

3.8.3 TEST SETUP



3.8.4 TEST RESULTS

ENVIRONMENTAL CONDITIONS	23 deg.C, 58% RH
LINK MODE	TEST RESULT
BT	PASS
MAC Address	B8:41:D9:86:5D:F2



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4 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.	Calibration Body	Calibration Method
Signal and Spectrum Analyzer	Rohde& Schwarz	FSV40	101094	Oct. 09, 25	GRGT	C
Power Meter	Anritsu	ML2495A	1139001	Feb. 24,26	CEPREI	C
Power Sensor	Anritsu	MA2411B	1531155	Feb. 24,26	CEPREI	C
Digital Multimeter	FLUKE	15B	A1220010DG	N/A	CEPREI	C
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A	internal	C
Contact Demodulator	LONGGUANG	TDGC ₂ J-3	2006	Mar. 20, 26	internal	C

NOTE:

1. The test was performed in RF Ovenroom.
2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.

Calibration Method:

- a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) (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 Law (Law No. 51 of 1992)
- c) Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
- d) Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)



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5 PHOTOGRAPHS OF THE TEST CONFIGURATION



EUT



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6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

--- END ---