

TEST REPORT

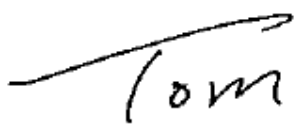
Applicant	ELECOM CO., LTD.
Address	1-1 FUSHIMI-MACHI 4-CHOME, CHUO-KU, OSAKA-SHI, JAPAN

Manufacturer or Supplier	ELECOM CO., LTD.	
Address	1-1 FUSHIMI-MACHI 4-CHOME, CHUO-KU, OSAKA-SHI, JAPAN	
Product	2.4GHz Wireless Mouse	
Brand Name	ELECOM	
Model	M-TP20DB	
Additional Model & Model Difference	M-TP10DB, M-TP20DBS, M-TP10DBS, See items 2.1	
Date of tests	Oct. 30, 2018 ~ Nov. 14, 2018	

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

☒ ARIB STD-T66, MIC notice 88 Appendix 43

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

Tested by Tom Chen Project Engineer / EMC Department	Approved by Glyn He Supervisor/ EMC Department
	 Date: Nov. 22, 2018

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Test Report No.: RJ181030N025

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RJ181030N025	Original release	Nov. 22, 2018



1 SUMMARY OF TEST RESULTS

Notice 88 Appendix 43 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	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				
G	3.3 (1)	3.6	Spurious emissions of receiver	C
--	--	2.5	Refer to all articles for transmitting antenna	C
OPERATING FREQUENCY 2400 TO 2483.5MHZ				
--	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)	2.1	Modulation method	C
--	3.2 (1)	2.1	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)	--	Angular width of principal radiation (AWPR)	NA
--	3.2 (10)	--	Number of carriers within 1 MHz bandwidth in OFDM	NA
--	3.2 (8)	3.3	Diffusion bandwidth	C
--	3.2 (9)	--	Spreading factor	NA
--	3.2 (11)	--	Frequency retention time (FH employed)	NA
NOTE: 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:

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	2.4GHz Wireless Mouse
MODEL NO.	M-TP20DB
ADDITIONAL MODELS	M-TP10DB, M-TP20DBS, M-TP10DBS
NOMINAL VOLTAGE:	DC1.5V(1.5V*AAA*1) from battery
MODULATION TYPE	GFSK
OPERATING FREQUENCY	2405MHz ~ 2477MHz
NUMBER OF CHANNEL	16
RATED RF OUTPUT POWER	0.1mW
CONDUCTED RF OUTPUT POWER	0.081mW
EIRP OUTPUT POWER	0.009mW
ANTENNA TYPE	PCB Antenna; -9.64dBi gain
HW-RELEASE NO	00
SW-RELEASE NO	00
DATA CABLE	Refer to user's manual
I/O PORTS	Refer to user's manual

NOTE:

1. For the test results, the EUT had been tested with all conditions.
2. The above EUT information was declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or user's manual.
3. Additional models M-TP10DB, M-TP20DBS, M-TP10DBS are identical with the test model M-TP20DB except the function of key for trading purpose.



2.2 DESCRIPTION OF TEST CHANNELS

16 channels are provided to this EUT:

CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)
1	2405	5	2421	9	2441	13	2455
2	2407	6	2428	10	2442	14	2467
3	2410	7	2435	11	2447	15	2468
4	2414	8	2440	12	2449	16	2477

- NOTE:**
1. Data rate 1 Mbps with GFSK technique.
 2. The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.

By means of test software provided by manufacture, the power levels during the tests were set according to the following codes:

CHANNEL	POWER SETTING
1	Default
10	Default
16	Default



2.3 TEST CONDITIONS

Test conditions	Voltage (Vdc)
V_{normal}	1.50
V_{max}	1.65
V_{min}	1.35

2.4 ASSEMBLY

The RF circuits was located inside of the EUT, the housing consists of two parts, metal parts with plastic enclosure close button, and the plastic enclosure is sealed firmly, separating the two parts was only possible by means of brute force.

2.5 ANTENNA SPECIFICATIONS

2.5.1 ANTENNA GAIN

Antenna type	Max. Gain (dBi)
PCB antenna	-9.64

2.5.2 ANTENNA PATTERN

Please refer to the attached file (Antenna pattern).



3 TEST RESULTS

3.1 FREQUENCY TOLERANCE MEASUREMENT

3.1.1 LIMITS OF FREQUENCY TOLERANCE MEASUREMENT

Tolerance of frequency shall be +/- 50ppm

3.1.2 TEST RESULTS

ENVIRONMENTAL CONDITIONS		23 deg.C, 56% 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)
1	2405	2405.0049	2.0374	2405.0008	0.3326	2404.9949	-2.1206
10	2442	2442.0062	2.5389	2442.0025	1.0238	2441.9964	-1.4742
16	2477	2476.9980	-0.8074	2476.9943	-2.3012	2477.0043	1.736



3.2 OCCUPIED BANDWIDTH MEASUREMENT (99% POWER BANDWIDTH)

3.2.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

Occupied bandwidth shall be 26MHz or less.

3.2.2 TEST RESULTS

ENVIRONMENTAL CONDITIONS		23 deg.C, 56% RH		
Channel	Frequency (MHz)	Voltage _{normal}	Voltage _{+10%}	Voltage _{-10%}
		Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
1	2405	2.67	2.68	2.69
10	2442	3.32	3.32	3.35
16	2477	4.32	4.33	4.32

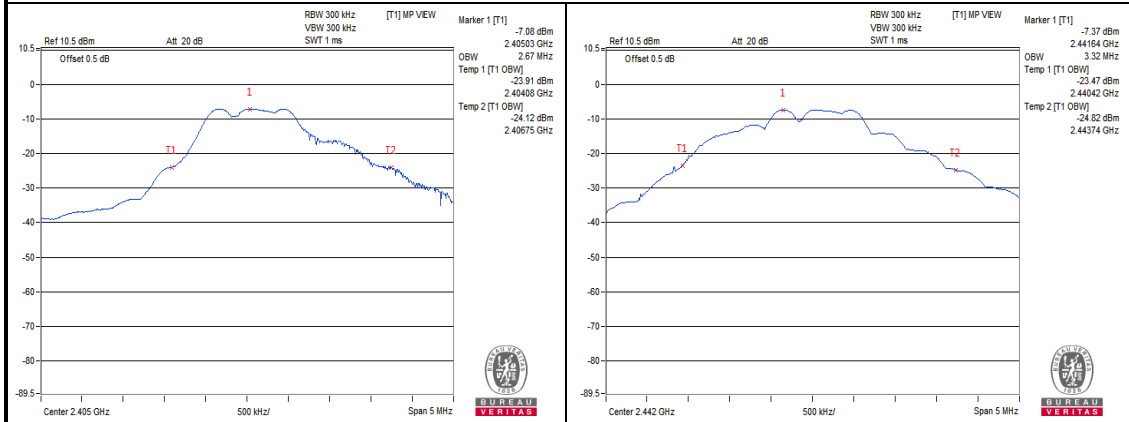
NOTE: For the test plots please refer to the below pages.



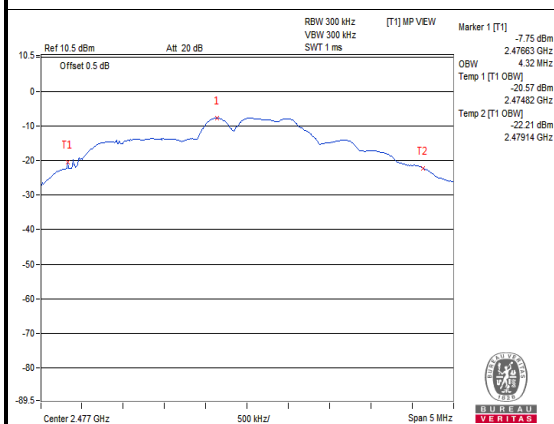
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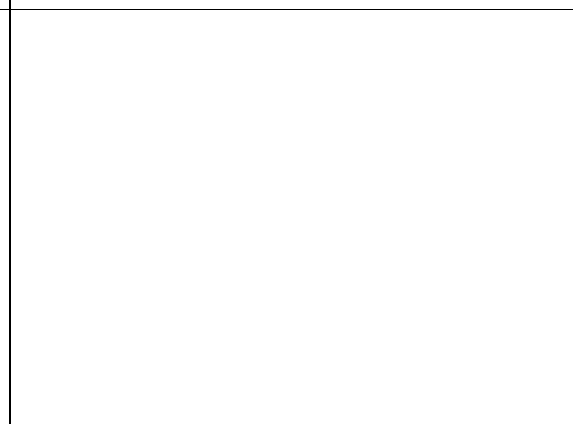
Vnormal



Channel 1



Channel 10



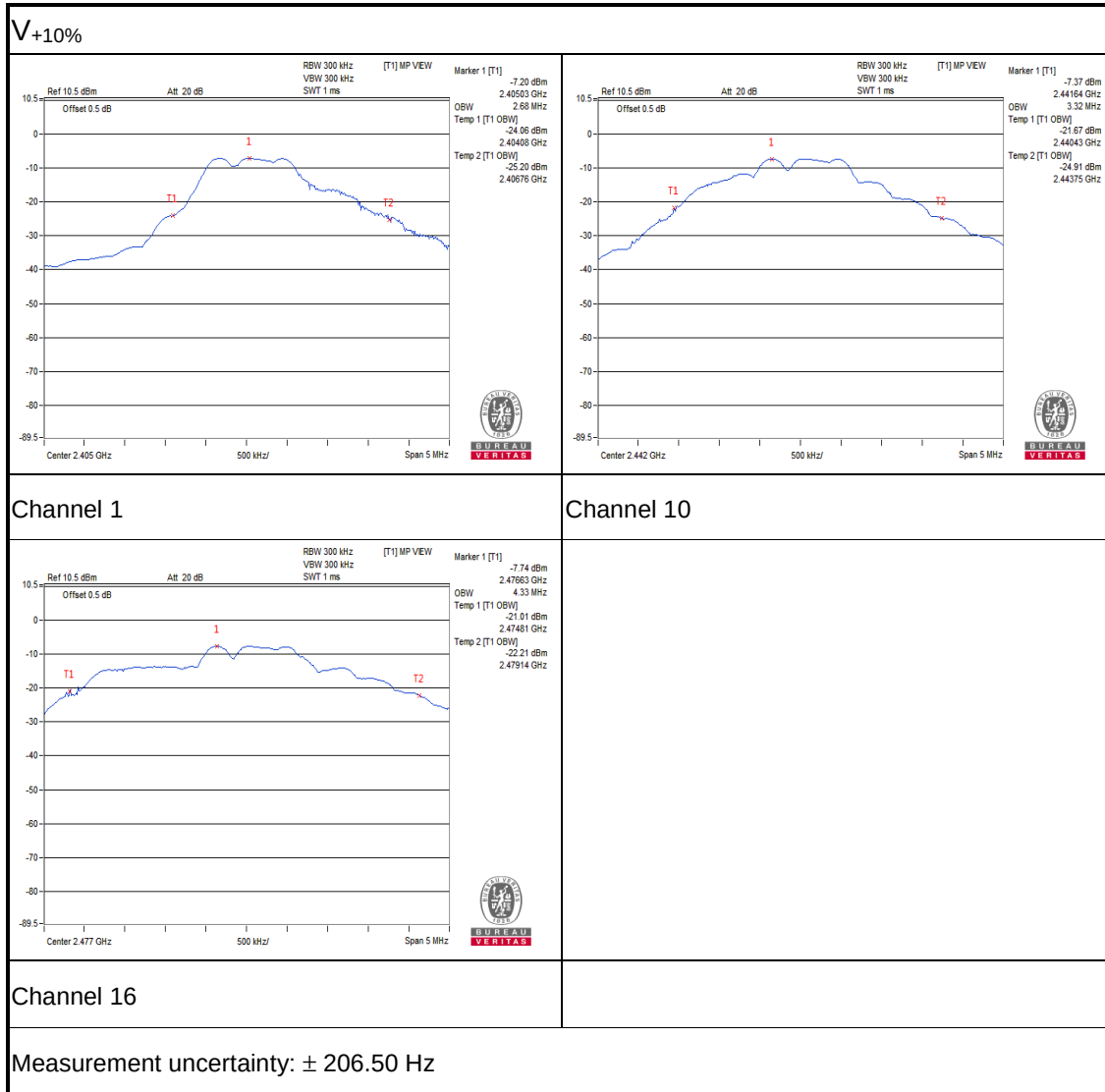
Channel 16

Measurement uncertainty: ± 206.50 Hz



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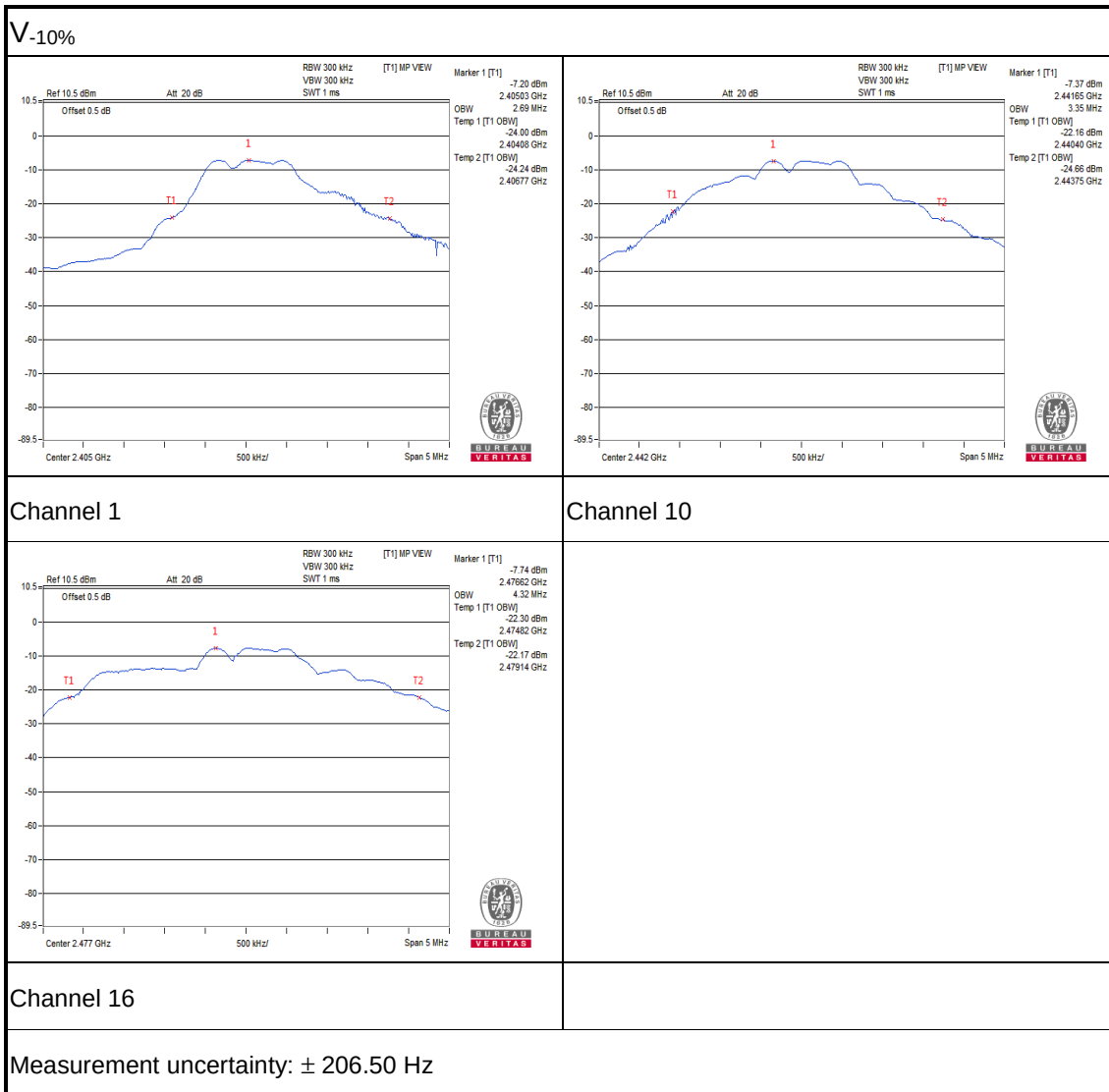
Test Report No.: RJ181030N025





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**3.3 SPREADING BANDWIDTH MEASUREMENT (90% POWER BANDWIDTH)****3.3.1 LIMITS OF SPREADING BANDWIDTH**

ITEM	LIMIT	REMARK
SPREADING BANDWIDTH	$\geq 500\text{kHz}$	-

3.3.2 TEST RESULTS

ENVIRONMENTAL CONDITIONS		23.5 deg.C, 56% RH		
Channel	Frequency (MHz)	Voltage normal	Voltage +10%	Voltage -10%
		Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
1	2405	1.45	1.46	1.46
10	2442	1.97	1.98	1.98
16	2477	2.91	2.91	2.90
Measurement uncertainty		$\pm 206.50 \text{ Hz}$		

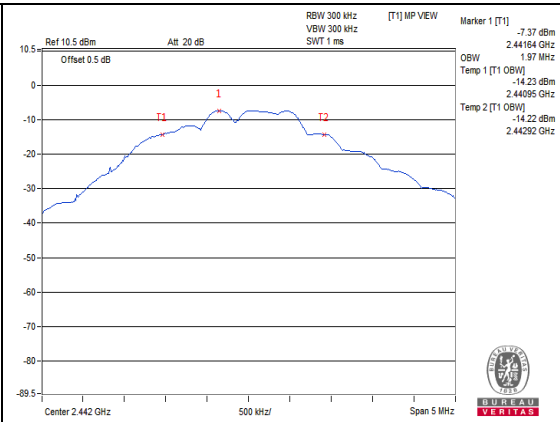
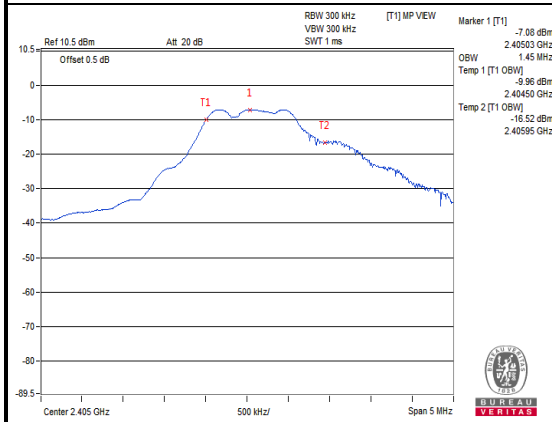
NOTE: For the test plots please refer to the below pages.



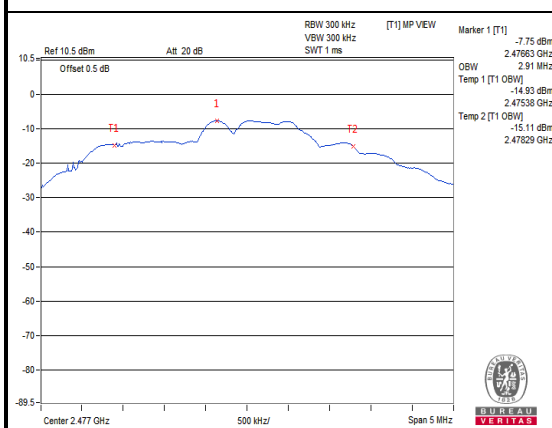
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Test Report No.: RJ181030N025

Vnormal



Channel 1



Channel 10



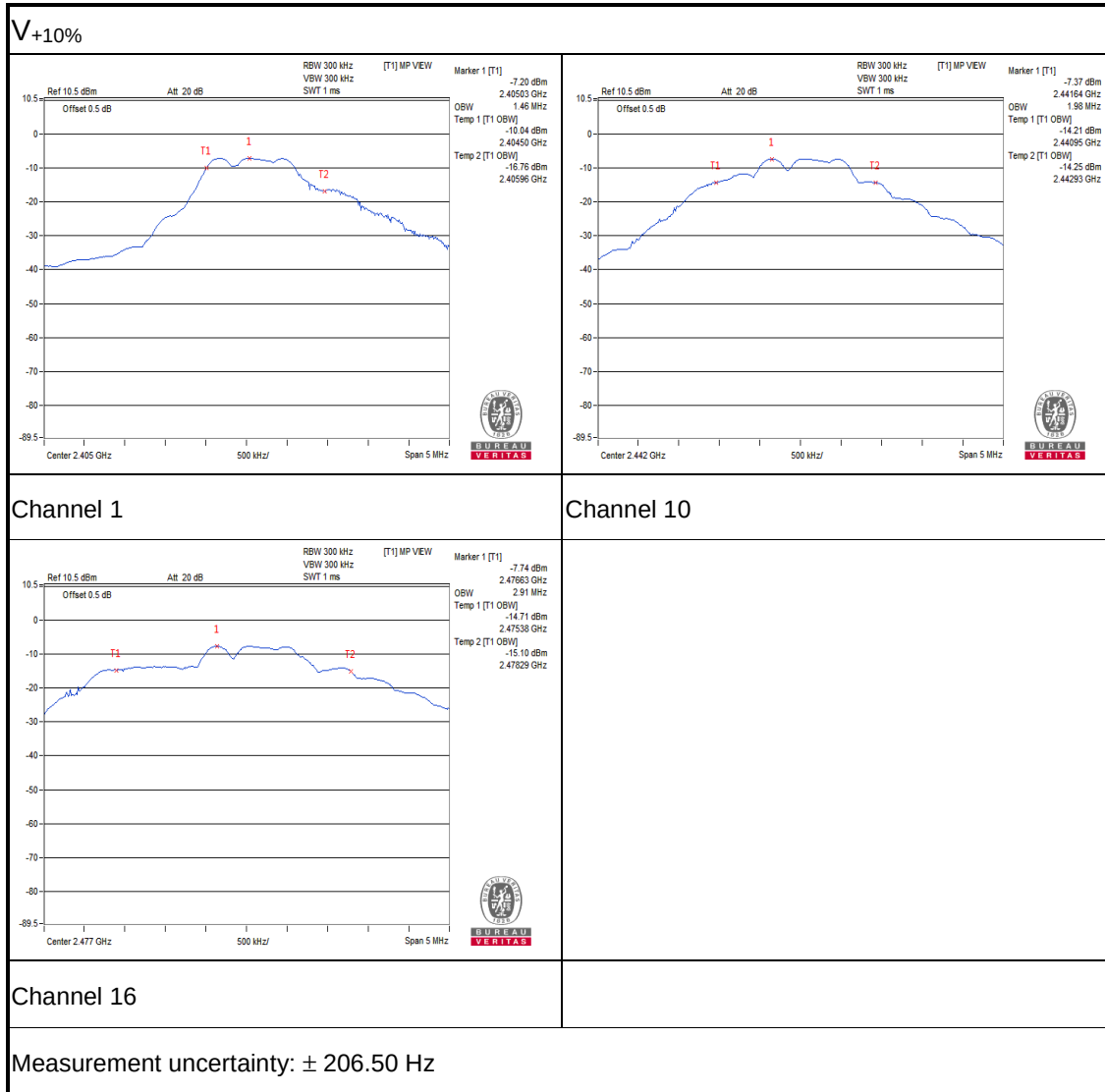
Channel 16

Measurement uncertainty: ± 206.50 Hz



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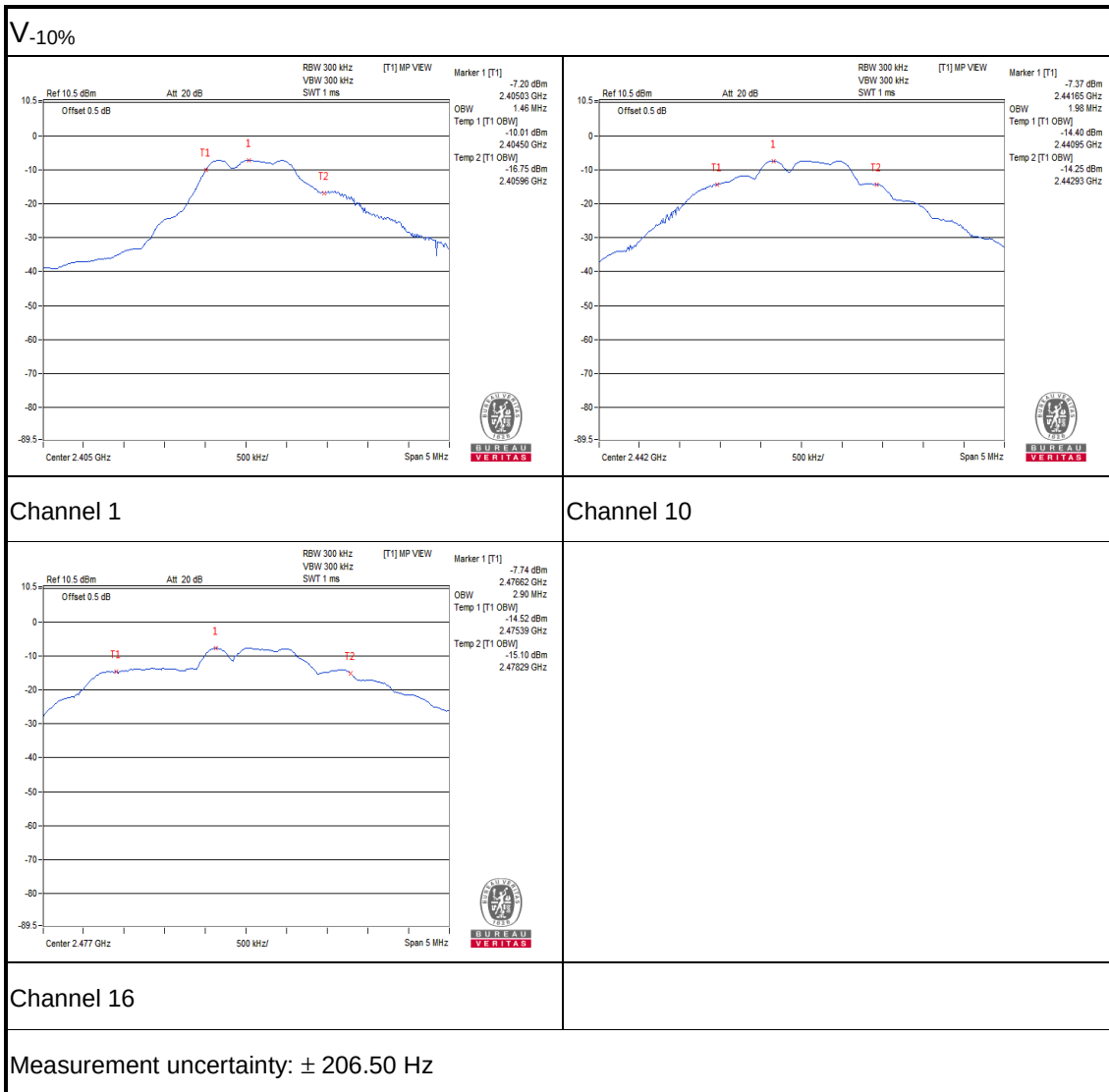
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3.4 SPURIOUS EMISSIONS FOR TRANSMITTER MEASUREMENT

3.4.1 LIMITS OF SPURIOUS EMISSIONS

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



3.4.2 SUMMARY OF TEST RESULT

ENVIRONMENTAL CONDITIONS		24deg.C, 56%RH					
TEST CHANNEL		CH 1 (2405MHz)		CH 10 (2442MHz)		LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)	MEASURE. VALUE	FREQUENCY (MHz)	MEASURE. VALUE		
V_{normal}	30.0MHz to 1000.0MHz	95.960	0.00071uW	892.815	0.003971uW	0.25uW	PASS
	1000.0MHz to 2387MHz	2386.306	0.026727uW	2346.777	0.006016uW	2.5uW	PASS
	2387.0MHz to 2400.0MHz	2399.957	0.304101uW	2394.120	0.007388uW	25uW	PASS
	2483.5MHz to 2496.5MHz	2485.430	0.006928uW	2483.503	0.006578uW	25uW	PASS
	2496.5MHz to 12500.0MHz	4809.809	0.108319uW	4882.334	0.098753uW	2.5uW	PASS
V_{+10%}	30.0MHz to 1000.0MHz	95.960	0.000645uW	95.960	0.000597uW	0.25uW	PASS
	1000.0MHz to 2387MHz	2387.000	0.025482uW	2346.777	0.00571uW	2.5uW	PASS
	2387.0MHz to 2400.0MHz	2399.993	0.302185uW	2396.977	0.007399uW	25uW	PASS
	2483.5MHz to 2496.5MHz	2485.047	0.006427uW	2485.255	0.006166uW	25uW	PASS
	2496.5MHz to 12500.0MHz	4809.809	0.106544uW	4882.334	0.100652uW	2.5uW	PASS
V_{-10%}	30.0MHz to 1000.0MHz	95.960	0.000699uW	95.960	0.000646uW	0.25uW	PASS
	1000.0MHz to 2387MHz	2385.613	0.024491uW	2346.083	0.006103uW	2.5uW	PASS
	2387.0MHz to 2400.0MHz	2399.964	0.29327uW	2399.252	0.007468uW	25uW	PASS
	2483.5MHz to 2496.5MHz	2484.618	0.00692uW	2485.849	0.006123uW	25uW	PASS
	2496.5MHz to 12500.0MHz	4809.809	0.1042uW	4882.334	0.102802uW	2.5uW	PASS

NOTE: 1. the worst value in each frequency range v.s. each channel has been marked by boldface.



ENVIRONMENTAL CONDITIONS		24deg.C, 56%RH			
TEST CHANNEL		CH 16 (2477MHz)		LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)	MEASURE. VALUE		
V _{normal}	30.0MHz to 1000.0MHz	111.965	0.000612uW	0.25uW	PASS
	1000.0MHz to 2387MHz	2381.105	0.006107uW	2.5uW	PASS
	2387.0MHz to 2400.0MHz	2397.029	0.007373uW	25uW	PASS
	2483.5MHz to 2496.5MHz	2483.532	0.150739uW	25uW	PASS
	2496.5MHz to 12500.0MHz	4954.860	0.091528uW	0.25uW	PASS
V _{+10%}	30.0MHz to 1000.0MHz	95.960	0.000745uW	0.25uW	PASS
	1000.0MHz to 2387MHz	2380.758	0.006243uW	2.5uW	PASS
	2387.0MHz to 2400.0MHz	2397.130	0.006533uW	25uW	PASS
	2483.5MHz to 2496.5MHz	2483.503	0.154594uW	25uW	PASS
	2496.5MHz to 12500.0MHz	4952.359	0.091247uW	2.5uW	PASS
V _{-10%}	30.0MHz to 1000.0MHz	95.960	0.000682uW	0.25uW	PASS
	1000.0MHz to 2387MHz	2381.452	0.006147uW	2.5uW	PASS
	2387.0MHz to 2400.0MHz	2396.967	0.008171uW	25uW	PASS
	2483.5MHz to 2496.5MHz	2483.526	0.158554uW	25uW	PASS
	2496.5MHz to 12500.0MHz	4954.860	0.086025uW	2.5uW	PASS

NOTE: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.

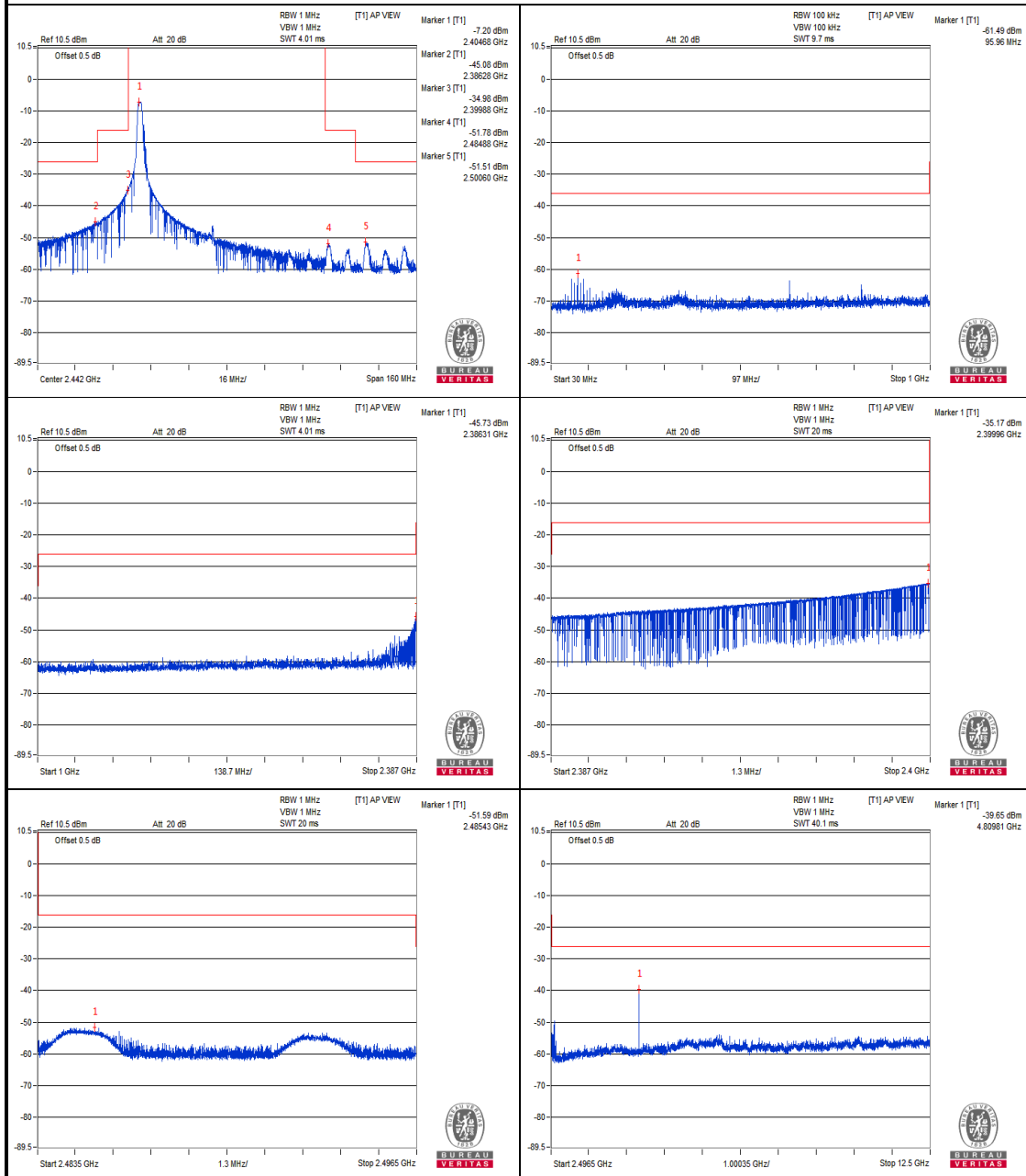
2. The spectrum plots are attached on the following pages.



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Vnormal Channel 1



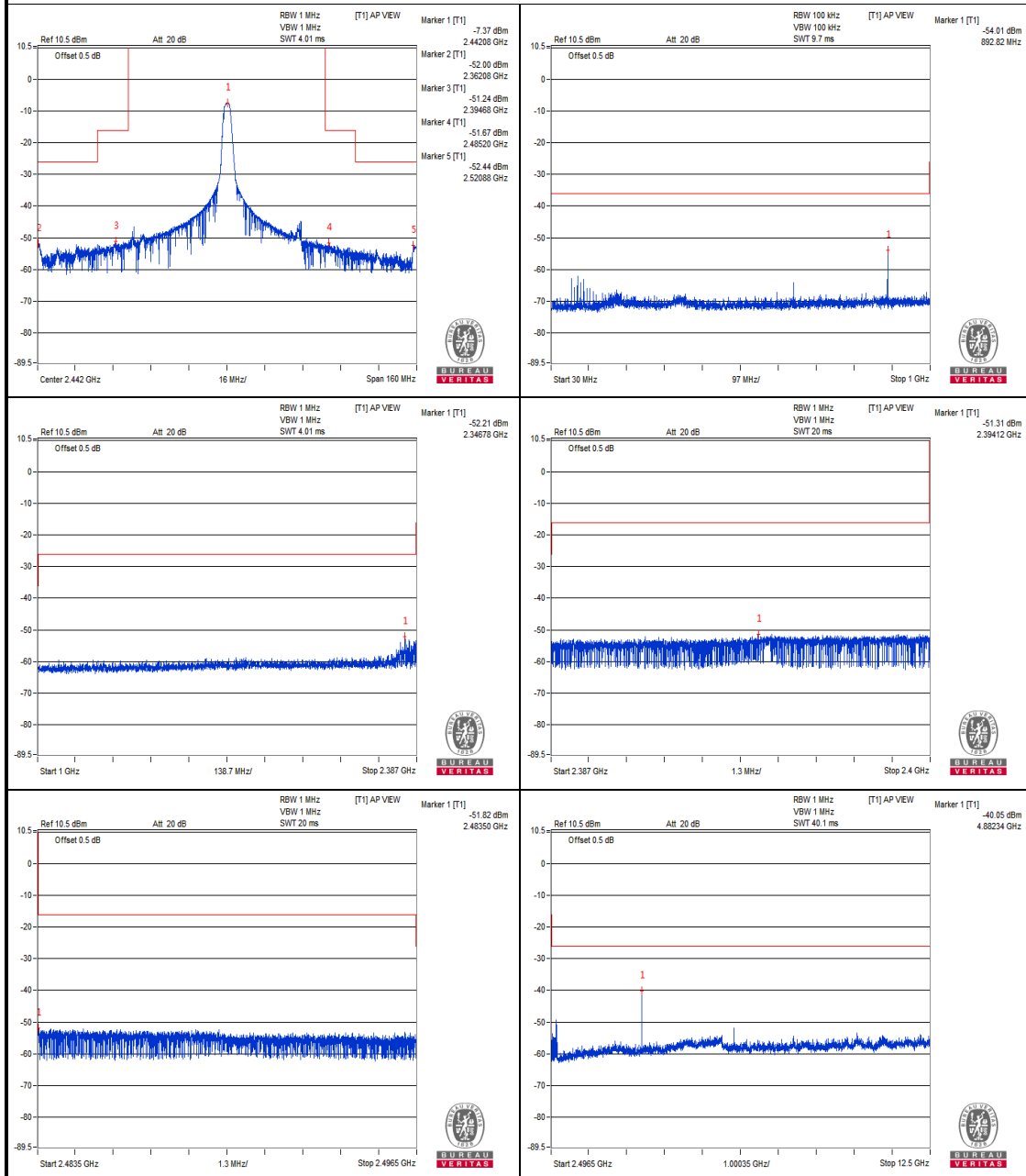
Measurement uncertainty: $\pm 3.93\text{dB}$



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Vnormal Channel 10



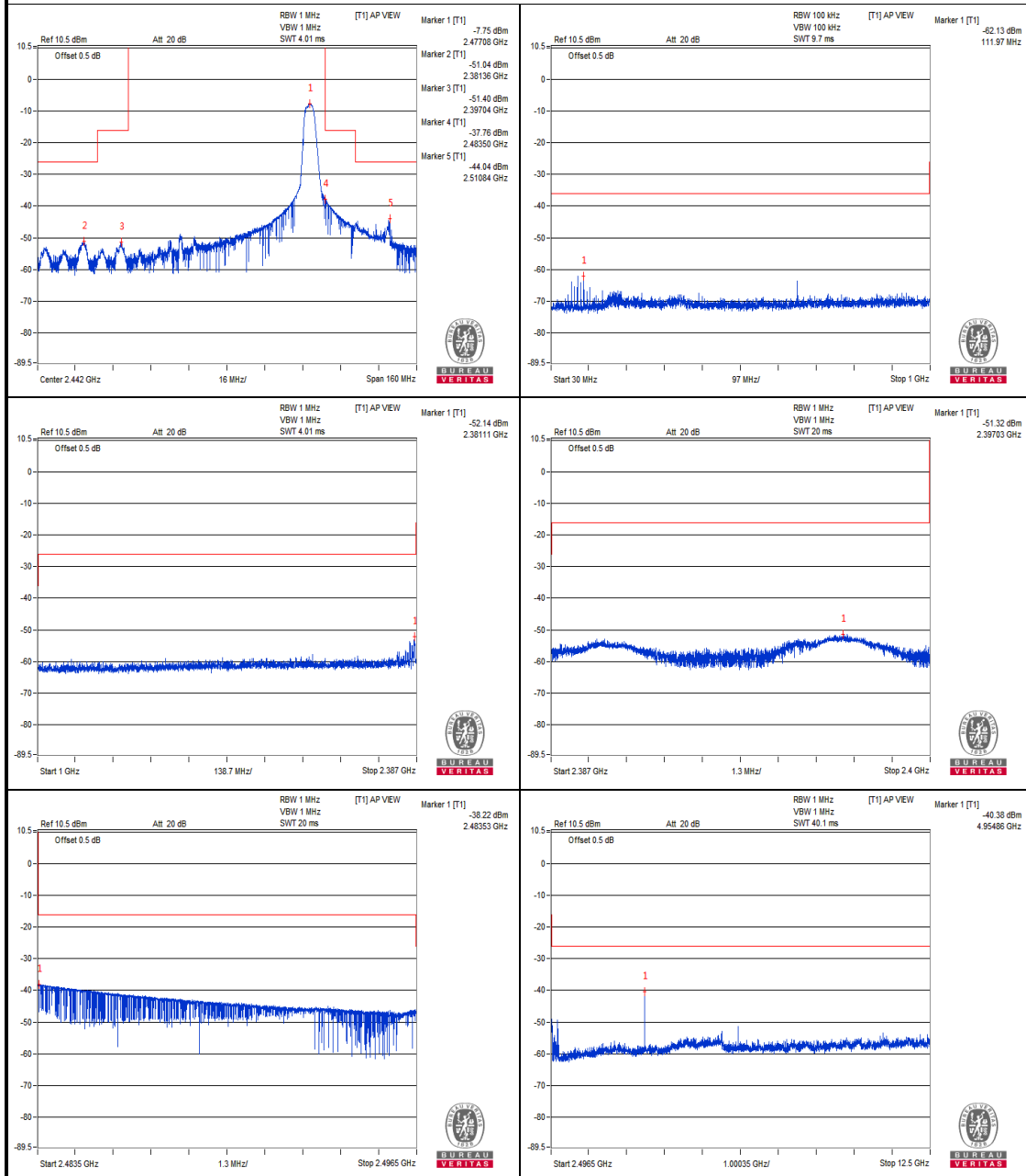
Measurement uncertainty: $\pm 3.93\text{dB}$



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Vnormal Channel 16



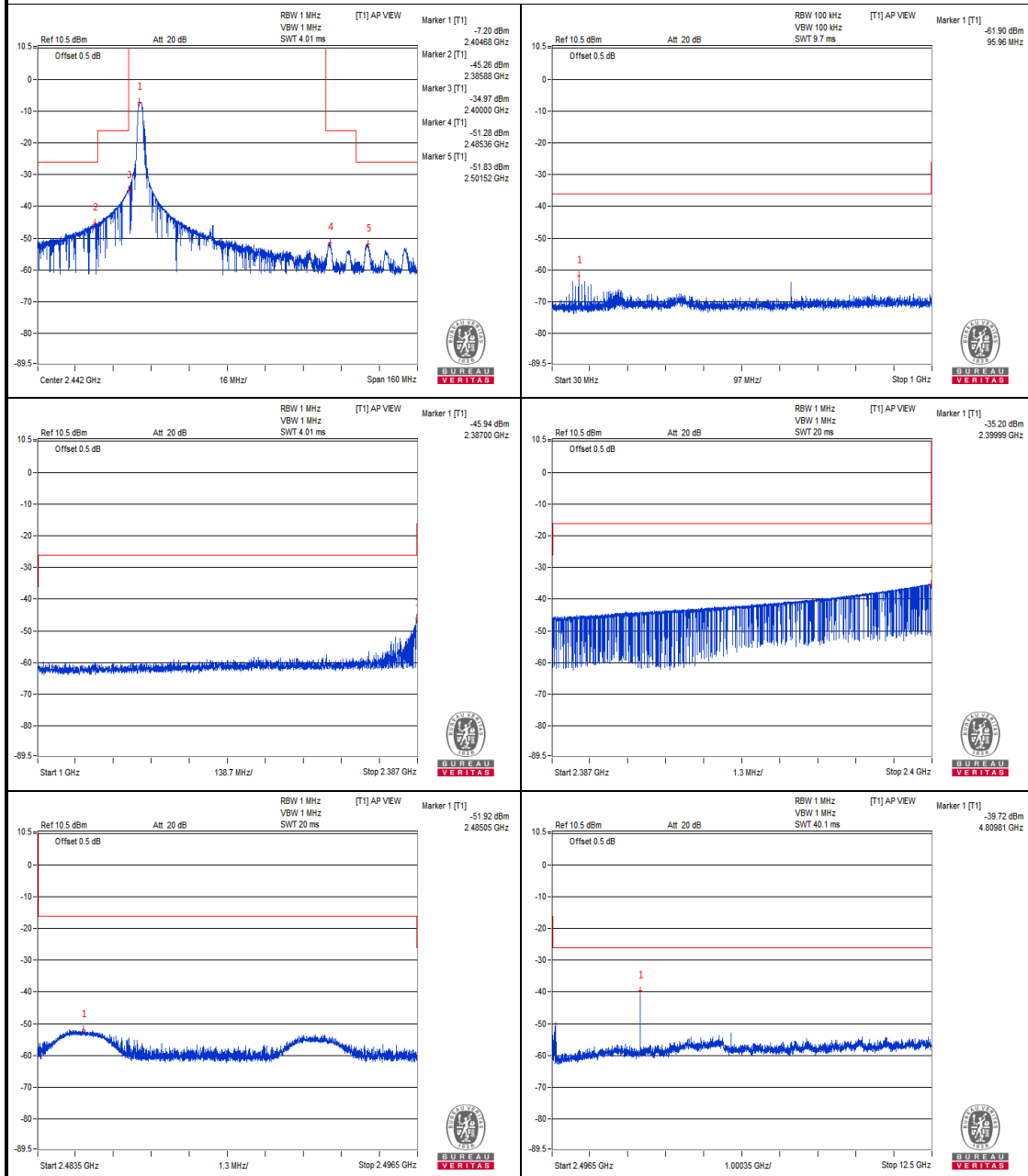
Measurement uncertainty: $\pm 3.93\text{dB}$



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V+10%
Channel 1



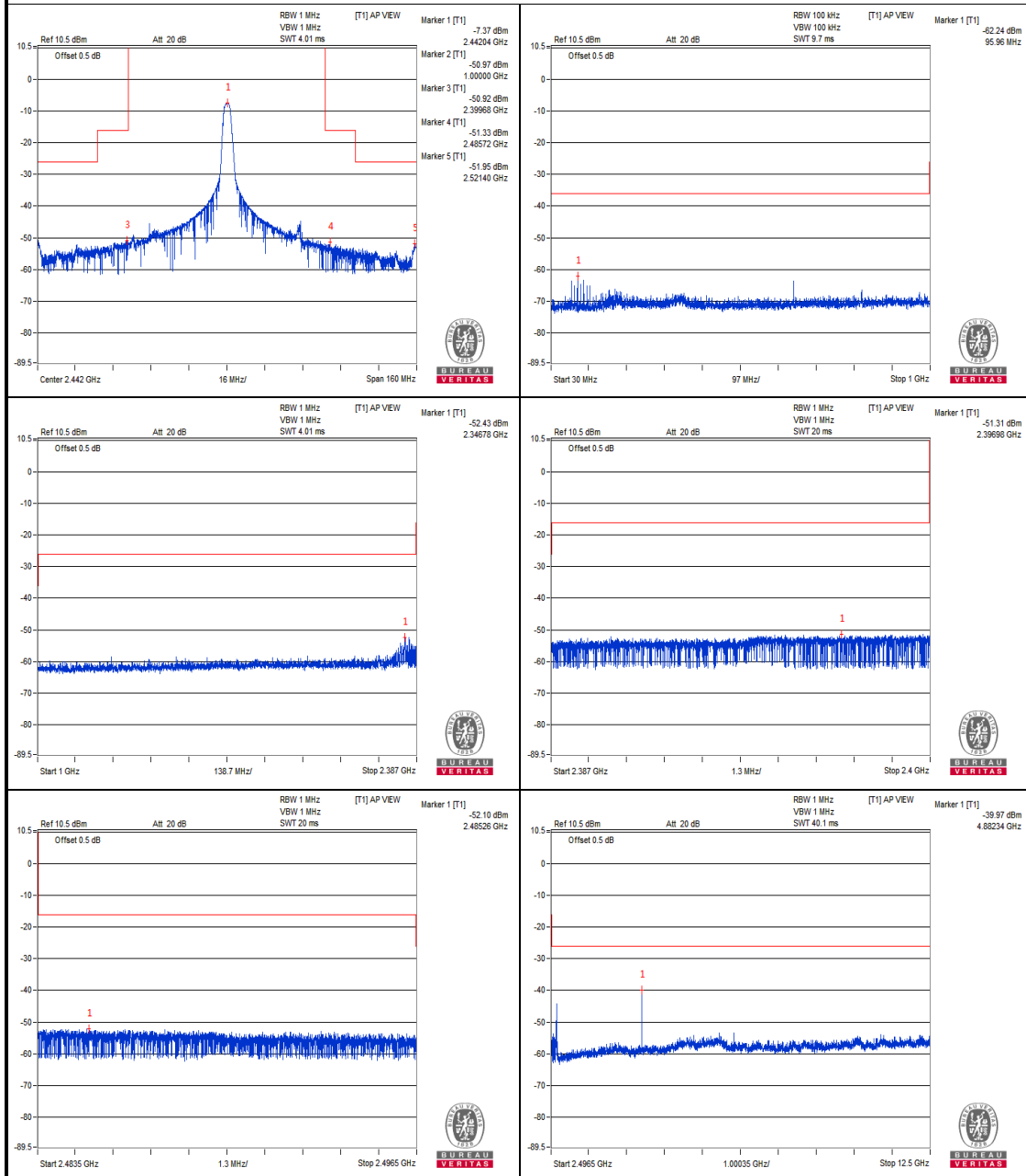
Measurement uncertainty: $\pm 3.93\text{dB}$



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V+10%
Channel 10



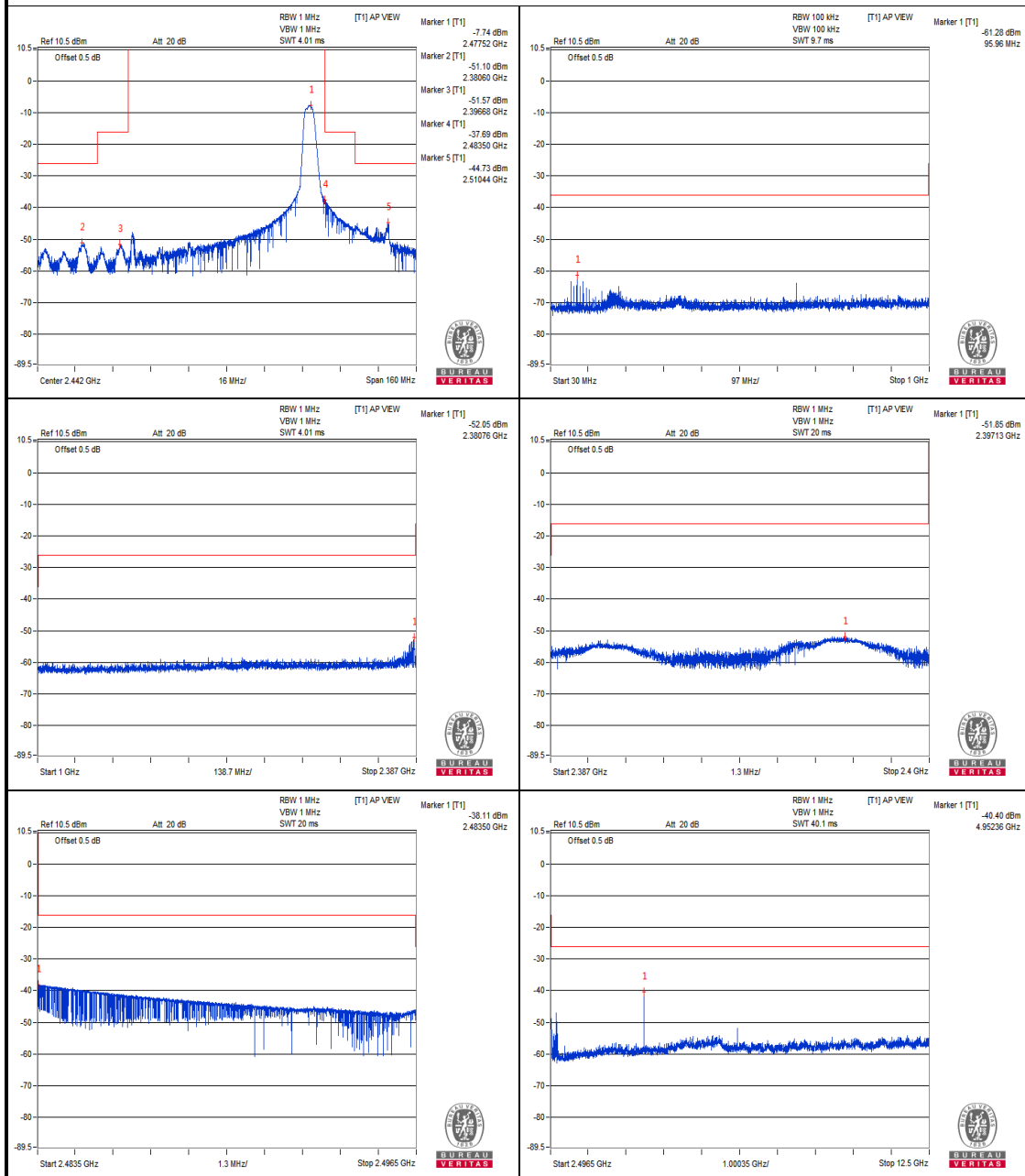
Measurement uncertainty: $\pm 3.93\text{dB}$



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V+10%
Channel 16



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

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

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Houjie Town, Dongguan City,
Guangdong 523942, China

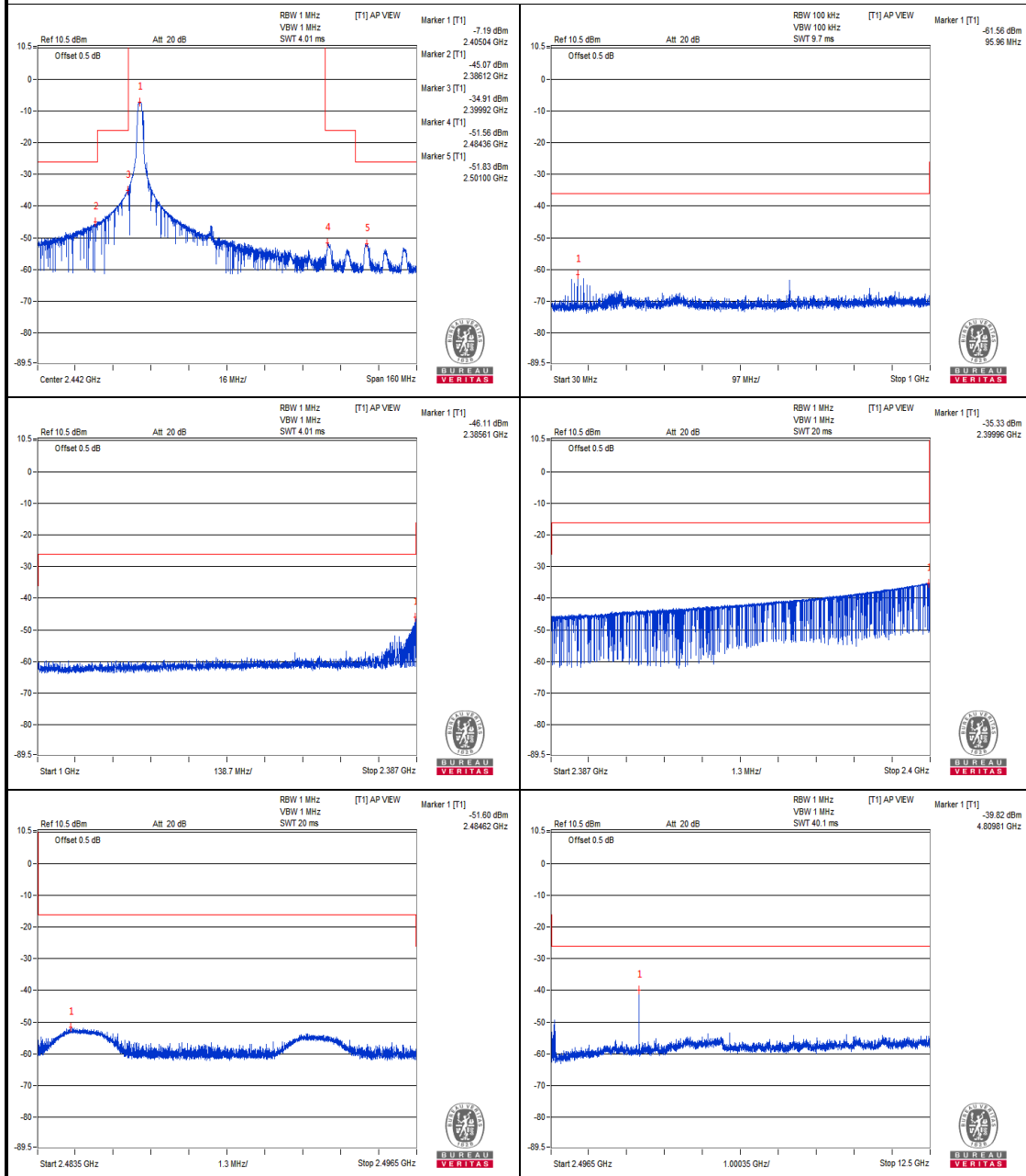
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Email: customerservice.dg@cn.bureauveritas.com



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V-10% Channel 1



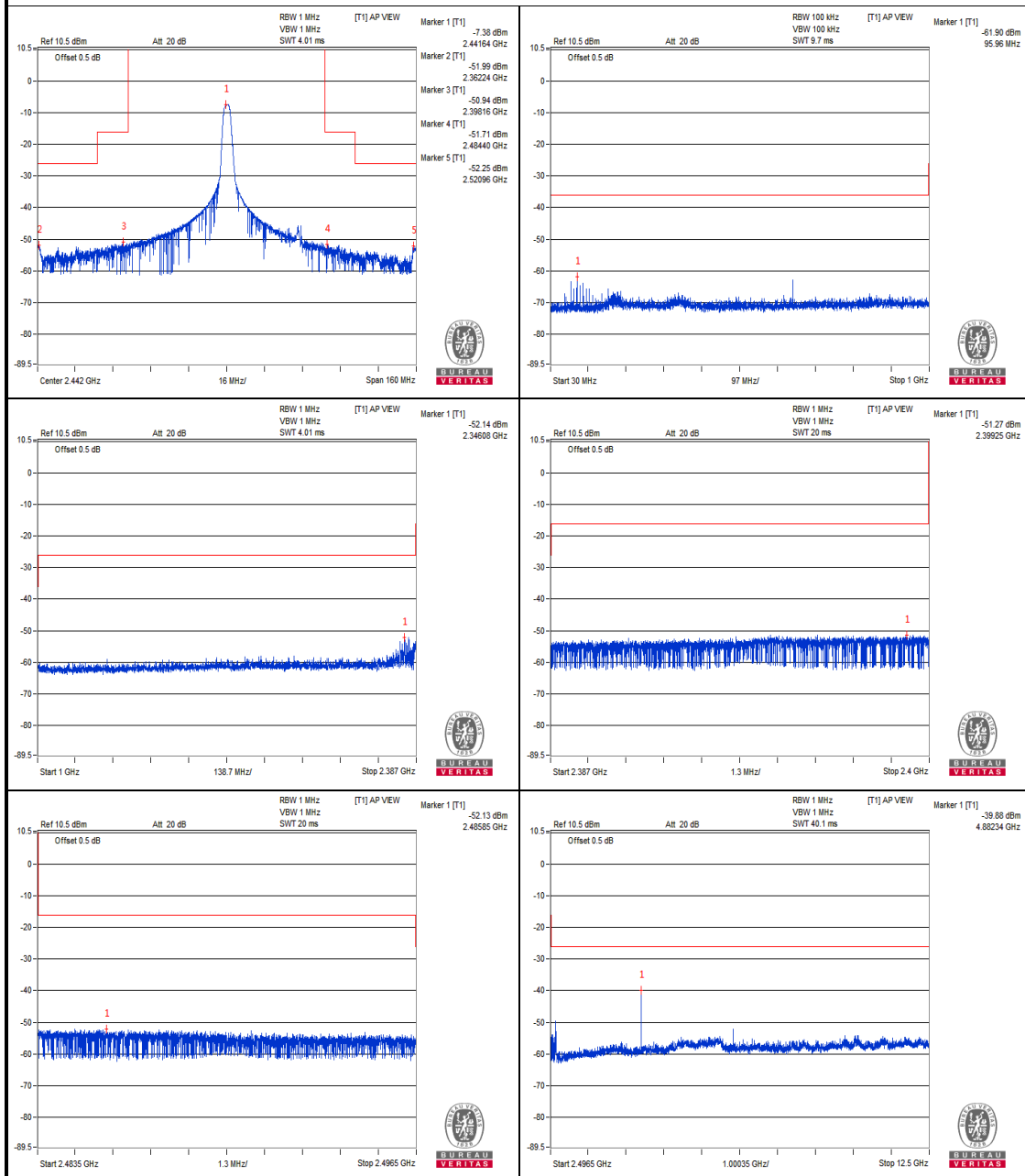
Measurement uncertainty: $\pm 3.93\text{dB}$



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V-10% Channel 10



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

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Houjie Town, Dongguan City,
Guangdong 523942, China

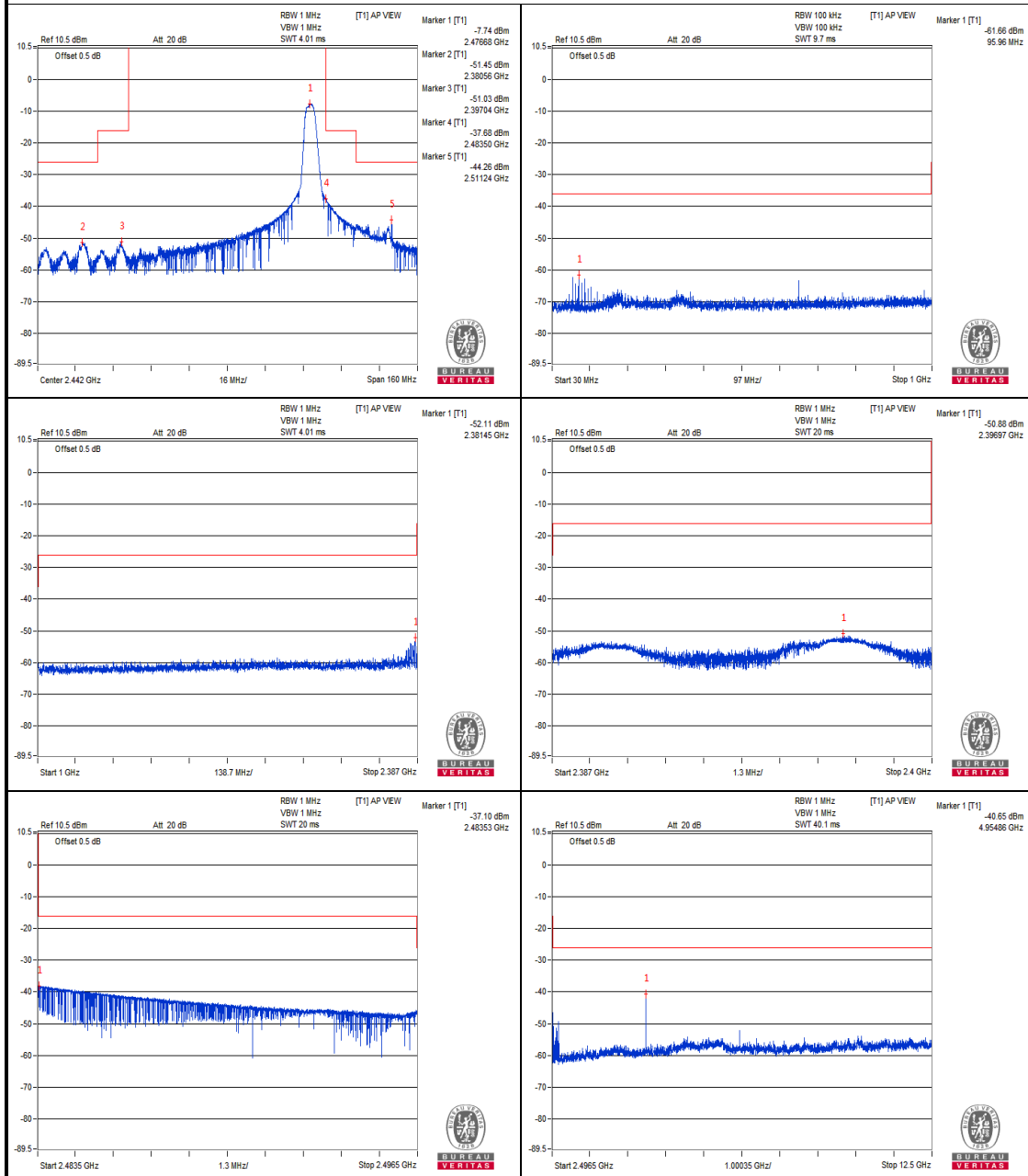
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Fax: +86 769 8593 1080
Email: customerservice.dg@cn.bureauveritas.com



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V-10% Channel 16



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



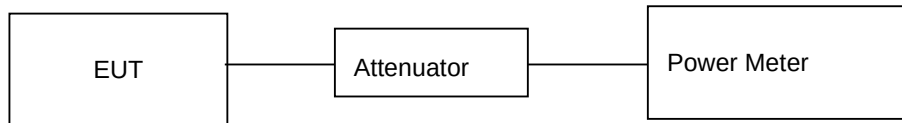
3.5 ANTENNA POWER MEASUREMENT

3.5.1 LIMITS OF ANTENNA POWER

Antenna power shall be 10 mW or less.

Tolerance of antenna power shall be +20% (upper value) and –80% (lower value).

3.5.2 TEST SETUP



3.5.3 TEST PROCEDURE

1. The transmitter output was connected to the power meter through an attenuator; the bandwidth of the fundamental frequency was measured with the power meter.
2. Record the power level.

**3.5.4 TEST RESULTS**

ENVIRONMENTAL CONDITIONS		23 deg.C, 56 % RH		
TEST CONDITION		Conducted RF output power (mW)		
		Low Channel 2405MHz	Middle Channel 2442MHz	High Channel 2477MHz
Normal Voltage	1.50V	0.081	0.072	0.065
Max Voltage	1.65V	0.080	0.071	0.065
Min Voltage	1.35V	0.081	0.072	0.065
Rated power		0.1		
Tolerance of antenna power		0.02 ~ 0.12		

ENVIRONMENTAL CONDITIONS		23 deg.C, 56 % RH		
TEST CONDITION		EIRP output power (mW)		
		Low Channel 2405MHz	Middle Channel 2442MHz	High Channel 2477MHz
Normal Voltage	1.50V	0.009	0.008	0.007
Max Voltage	1.65V	0.009	0.008	0.007
Min Voltage	1.35V	0.009	0.008	0.007

NOTE: The value of radiated RF output 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 SUMMARY OF TEST RESULT

TEST CHANNEL		CH 1 (2405MHz)		CH 10 (2442MHz)		LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)	MEASURE. VALUE	FREQUENCY (MHz)	MEASURE. VALUE		
Vnormal	below 1GHz	230.790	0.001969nW	952.712	0.00174nW	4nW	PASS
	above 1GHz	12287.250	0.04784nW	2403.000	0.051812nW	20nW	PASS
V+10%	below 1GHz	966.777	0.002179nW	893.785	0.001563nW	4nW	PASS
	above 1GHz	2403.000	0.049419nW	11191.875	0.052428nW	20nW	PASS
V-10%	below 1GHz	966.535	0.001495nW	854.985	0.002053nW	4nW	PASS
	above 1GHz	6948.375	0.043589nW	10499.000	0.05598nW	20nW	PASS
TEST CHANNEL		CH 16 (2477MHz)				LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)		MEASURE. VALUE			
Vnormal	below 1GHz	889.662		0.001626nW		4nW	PASS
	above 1GHz	12201.000		0.047598nW		20nW	PASS
V+10%	below 1GHz	902.272		0.001752nW		4nW	PASS
	above 1GHz	12008.375		0.047511nW		20nW	PASS
V-10%	below 1GHz	925.552		0.001775nW		4nW	PASS
	above 1GHz	12293.000		0.041119nW		20nW	PASS

NOTE: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.

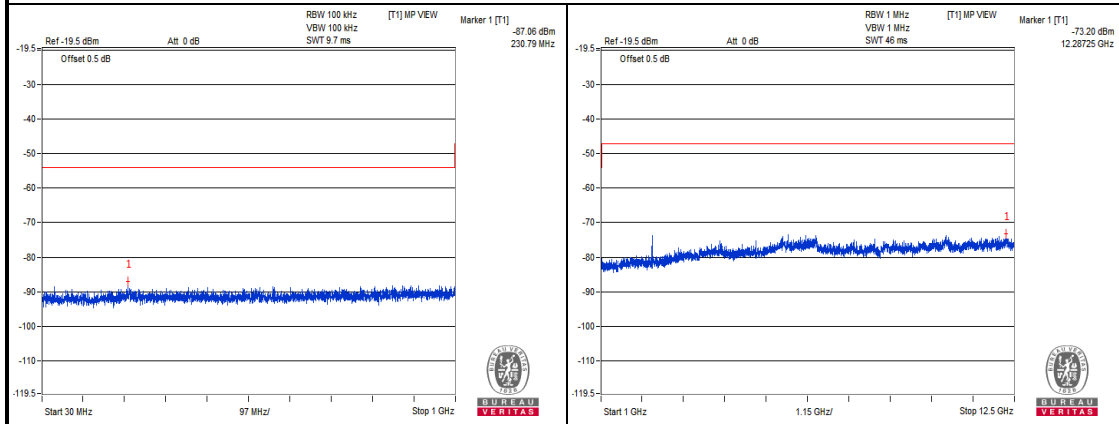
2. The spectrum plots are attached on the following pages.



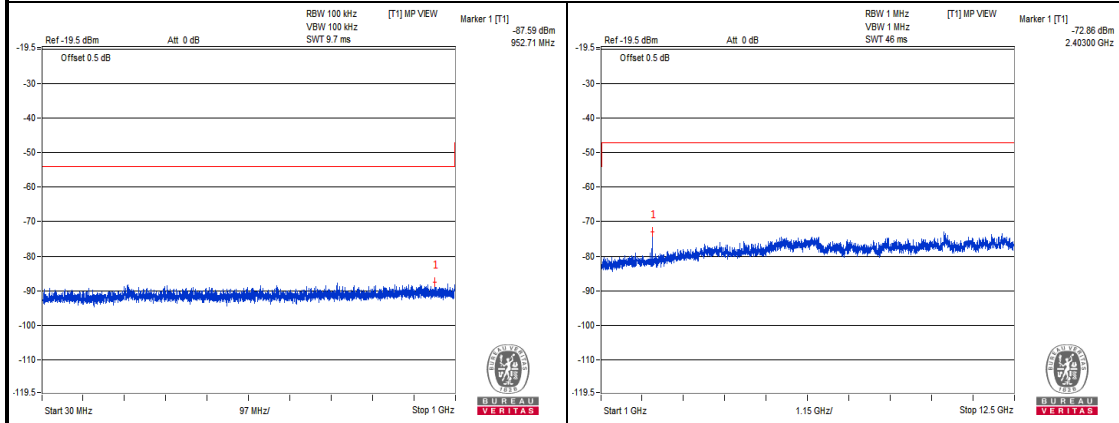
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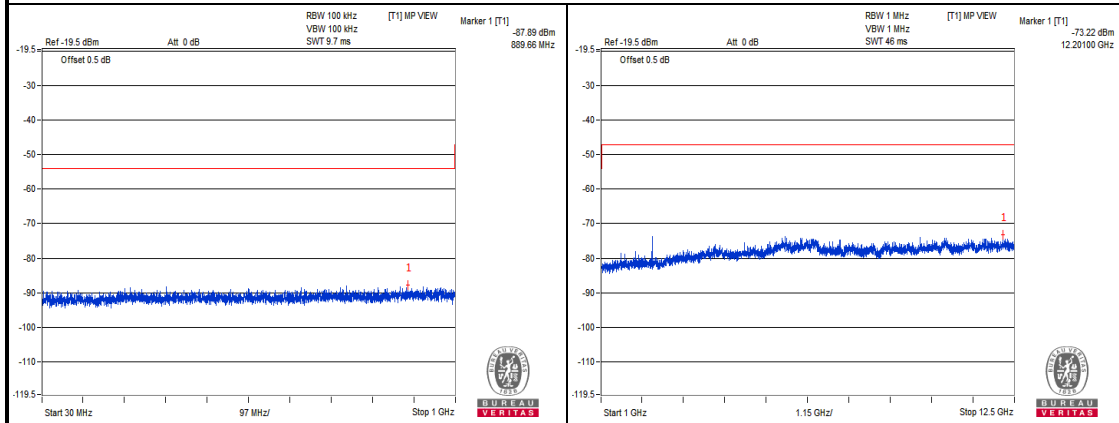
Vnormal



Channel 1



Channel 10



Channel 16

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

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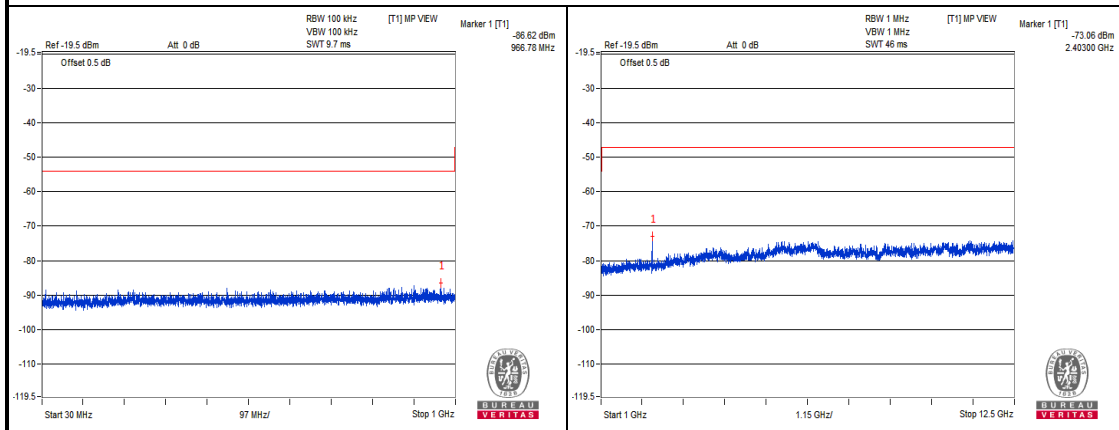
Tel: +86 769 8593 5656
Fax: +86 769 8593 1080
Email: customerservice.dg@cn.bureauveritas.com



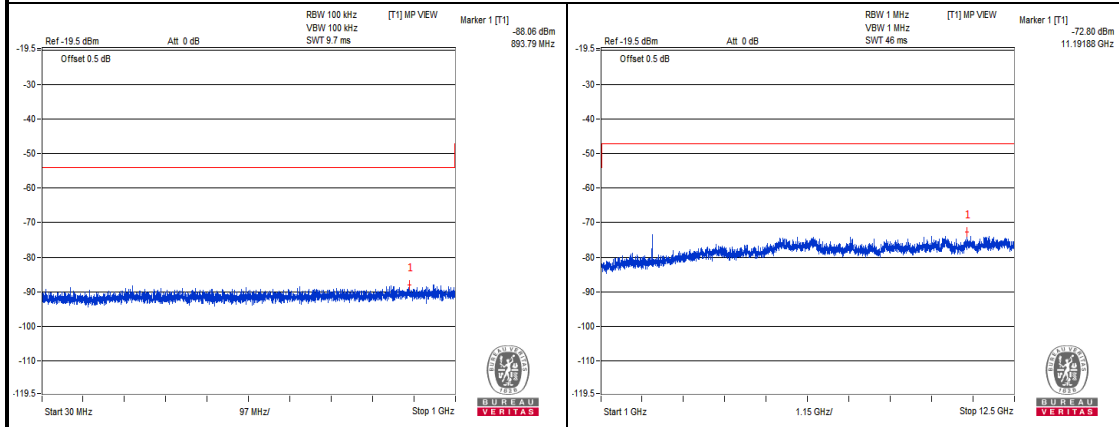
**BUREAU
VERITAS**

Test Report No.: RJ181030N025

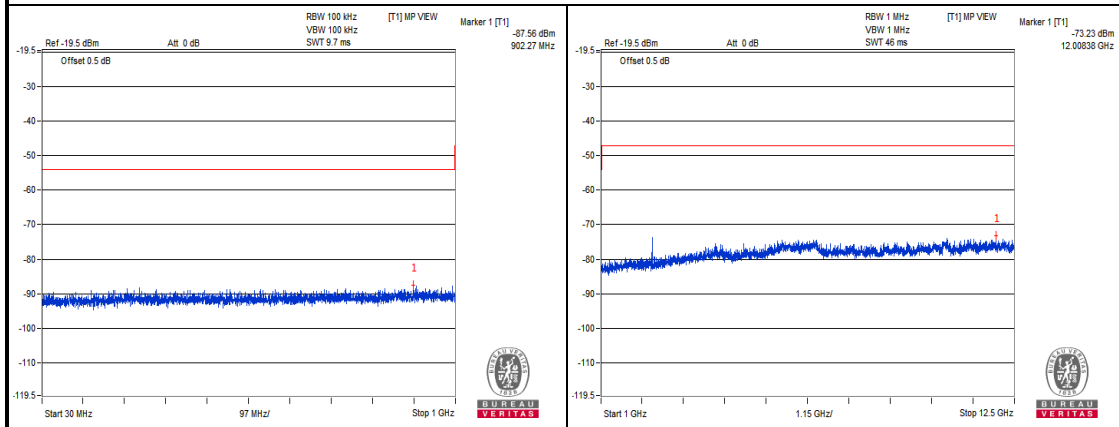
V+10%



Channel 1



Channel 10



Channel 16

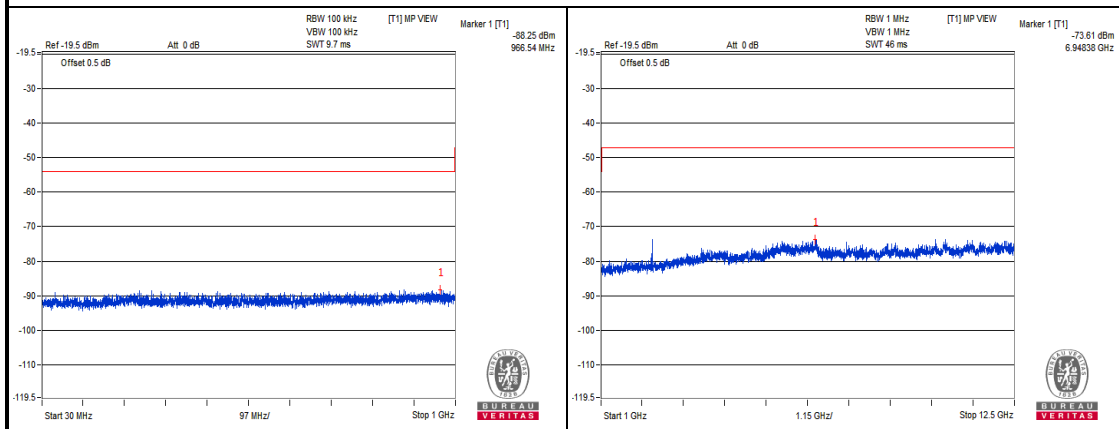
Measurement uncertainty: $\pm 3.93\text{dB}$



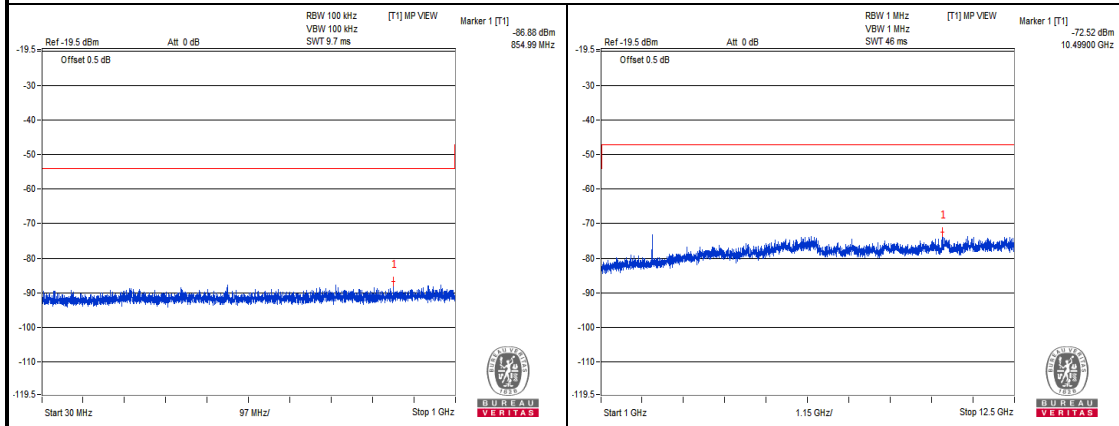
**BUREAU
VERITAS**

Test Report No.: RJ181030N025

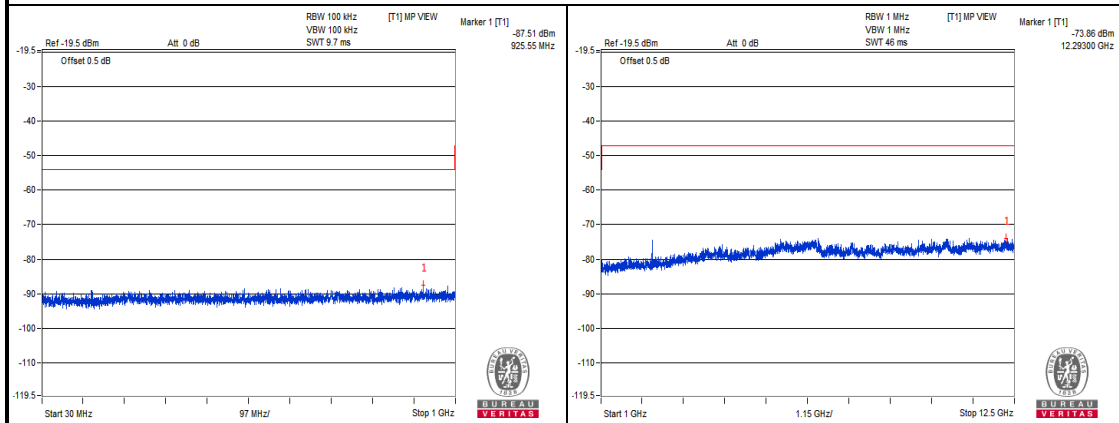
V-10%



Channel 1



Channel 10



Channel 16

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

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4 TEST INSTRUMENTS

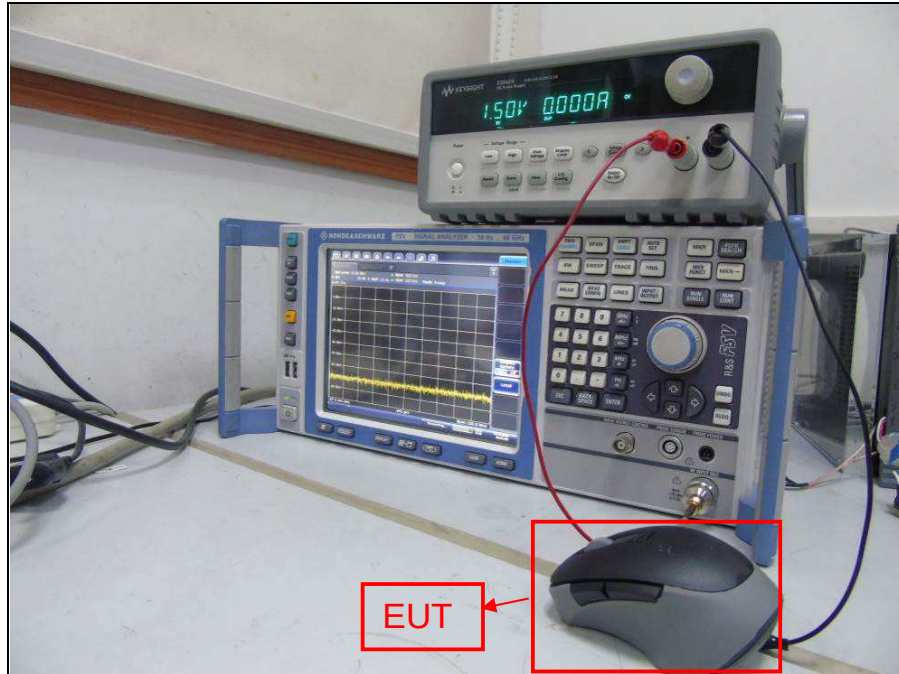
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Apr. 05,18	Apr. 04,19
Power Sensor	Keysight	U2021XA	MY55060016	May 19,18	May 18,19
Power Sensor	Keysight	U2021XA	MY55060018	May 19,18	May 18,19
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 13, 18	Oct.12, 19
DC Source	Keysight	E3642A	MY56146098	N/A	N/A
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A	N/A

NOTE:

1. The test was performed in RF Ovenroom.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



5 PHOTOGRAPHS OF THE TEST CONFIGURATION





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

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

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