

## Radio Test Report (BT LE)

**Report No.:** RJBEBU-WTW-P21120159 R1

**Test Model:** RGP0127

**Received Date:** 2021/12/28

**Test Date:** 2022/1/5

**Issued Date:** 2022/1/17

**Applicant:** Corsair Memory, Inc.

**Address:** 115 North McCarthy Blvd, Milpitas, CA 95035, USA

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan



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### Release Control Record

Issue No.	Description	Date Issued
RJBEBU-WTW-P21120159	Original release.	2022/1/14
RJBEBU-WTW-P21120159 R1	Modify the Manufacturer of battery in section 3.1.	2022/1/17

## 1 Certificate of Conformity

**Product:** Wireless keyboard

**Brand:** CORSAIR

**Test Model:** RGP0127

**Sample Status:** Engineering sample

**Applicant:** Corsair Memory, Inc.

**Test Date:** 2022/1/5

**Standards:** ARIB STD-T66 (V3.7), MIC notice 88 Appendix 43  
Certification Ordinance Article 2-1-19

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :** Annie Chang, **Date:** 2022/1/17  
Annie Chang / Senior Specialist

**Approved by :** Jeremy Lin, **Date:** 2022/1/17  
Jeremy Lin / Project Engineer

## 2 Summary of Test Results

The EUT has been tested according to the following specifications:

Notice 88 Appendix 43 Reference	ARIB STD-T66 Ref.	Report Reference	Parameter	Test Results (Note)
<b>General Provisions</b>				
C	3.2 (4)	4.1	Frequency tolerance	C
D	3.2 (7)	4.2	Occupied bandwidth	C
E	3.2 (6)	4.3	Spurious emissions	C
<b>Transmitting Equipment</b>				
F	3.2 (2)	4.4	Antenna power	C
--	--	--	SAR	NA
<b>Transmitting Antenna</b>				
--	--	3.5	Type, configuration, etc. of transmitting antenna	C
--	--	3.5	Direction pattern of transmitting antenna	C
<b>Receiving Equipment</b>				
G	3.3 (1)	4.5	Spurious emissions of receiver	C
--	--	3.5	Refer to all articles for transmitting antenna	C
<b>Operating Frequency 2400 to 2483.5MHz</b>				
--	3.7 (1)	3.4	High Frequency	C
--	3.7 (1)	3.4	Modulation section cannot be opened easily	C
--	3.1 (1)	3.1	Communication method	C
--	3.2 (1)a	3.1	Modulation method	C
--	3.2 (1)a	3.1	Spread spectrum method	C
--	3.2 (2)	4.4	Antenna power	C
--	3.6 (2)	4.4	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)	--	Spreading bandwidth	NA
--	3.2 (9)	--	Spreading factor	NA
--	3.2 (11)	--	Frequency retention time (FH employed)	NA
--	3.4.1(1)	4.6	Interference Prevention Function	C
--	3.4.1(3)	--	Carrier Sense Capability	NA

Note:

1. C = Conform NC = Not Conform NT = Not Tested NA = Not Applicable
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

## 2.1 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Cal. Method
MIMO Power measurement Test set (4X4) KEYSIGHT	U2021XA	U2021XA_001	2021/6/16	2022/6/15	ETC	c)
Spectrum Analyzer R&S	FSV40	101042	2021/9/9	2022/9/8	ETC	c)
Spectrum Analyzer KEYSIGHT	N9030A	MY54490260	2021/7/23	2022/7/22	ETC	c)
Pulse Power Sensor Anritsu	MA2411B	0738404	2021/4/15	2022/4/14	ETC	c)
Peak Power meter Anritsu	ML2495A	0842014	2021/4/15	2022/4/14	ETC	c)
MXG Vector Signal Generator KEYSIGHT	N5182B	MY53052658	2021/5/19	2022/5/18	ETC	c)
True RMS Clamp Meter Fluke	325	31130711WS	2021/6/2	2022/6/1	ETC	c)
AC POWER SOURCE Schaffner	Proflin2105-2 08NSG1007	55616	2021/6/2	2022/6/1	ETC	c)

### NOTE: Calibration Method

- a) : Calibration conducted by the National Institute of Information and Communications Technology(NICT) or a designated calibration agency under Article 102-18 paragraph (1) of the Radio Law.
- b) : Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
- 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 other equipment that listed above from a) to c)

## 2.2 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in TR 100 028-1.

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

Parameter	Uncertainty
Occupied Bandwidth	206.50 Hz
Spurious emissions	3.93 dB
Output power density	1.11 dB
Out of band radiated power	3.93 dB
Frequency Tolerance	603.76 Hz

## 2.3 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

Product	Wireless keyboard
Brand	CORSAIR
Test Model	RGP0127
Status of EUT	Engineering sample
Nominal Voltage	3.7Vdc from battery or 5Vdc from host equipment
Modulation Type	GFSK
Transfer Rate	Up to 1Mbps
Operating Frequency	2402 ~ 2480MHz
Number of Channel	40
Rated RF Output Power	Refer to note
Conducted RF Output Power	Refer to note
Radiated RF Output Power	Refer to note
Antenna Type	METAL antenna with -5.02dBi gain
Antenna Connector	N/A
Accessory Device	N/A
Data Cable Supplied	Shielded USB Type C – Type A Cable (1.8m)

Note:

1. Bluetooth & GFSK technologies can not transmit at same time.

2. The EUT uses following rechargeable battery.

Manufacturer	Hangzhou Future Power Technology Co., Ltd.
Model	FT5936E2P
Rating	3.7Vdc

3. The power table as below:

Modulation Type	Rated power (mW)	Total Conducted RF output power (mW)	Radiated RF output power (mW)
GFSK (1Mbps)	1	0.920	0.290

4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

### 3.2 Description of Test Modes

40 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
<b>0</b>	<b>2402</b>	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	<b>19</b>	<b>2440</b>	29	2460	<b>39</b>	<b>2480</b>

Note: 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
0	0
19	0
39	0



### 3.3 Test Conditions

Test Conditions		Voltage (Vdc)
$V_{normal}$	-	5
$V_{max.}$	+10%	5.5
$V_{min.}$	-10%	4.5

Test modes are presented in the report as below:

Test Item	Environmental Conditions
Frequency Tolerance	25 deg.C, 76% RH
Occupied Bandwidth	25 deg.C, 76% RH
Spurious Emissions for Transmitter	25 deg.C, 76% RH
Antenna Power	25 deg.C, 76% RH
Spurious Emissions for Receiver	25 deg.C, 76% RH
Interference Prevention Function	25 deg.C, 76% RH

### 3.4 Assembly

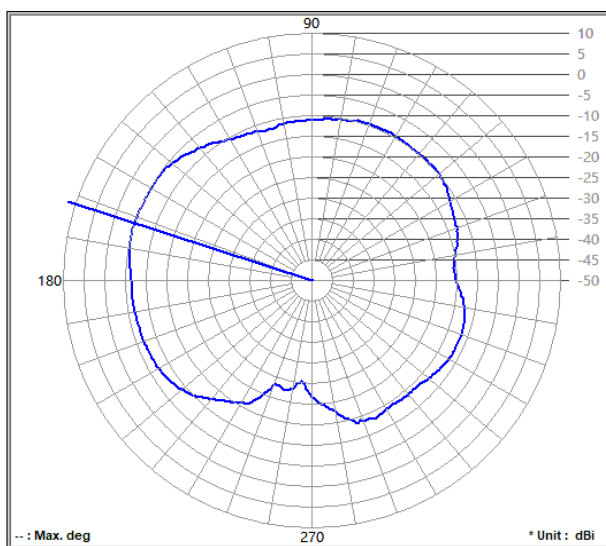
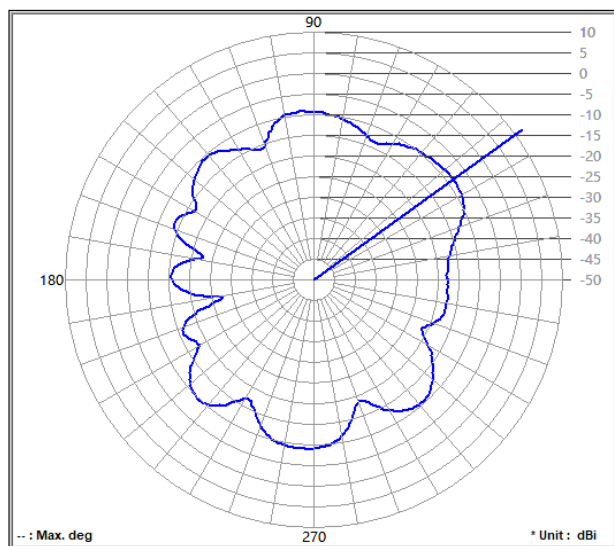
The EUT used a kind of particular screw, which could not operated by a tool bought in the market. Only means of brute force will be able to open.

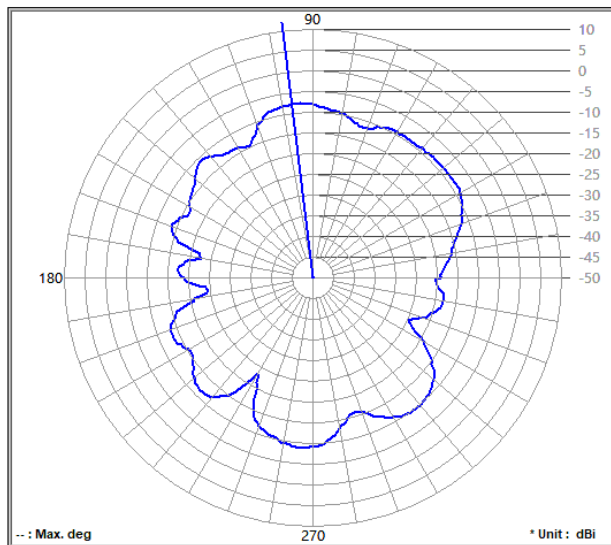
### 3.5 Antenna Specifications

#### 3.5.1 Antenna Gain

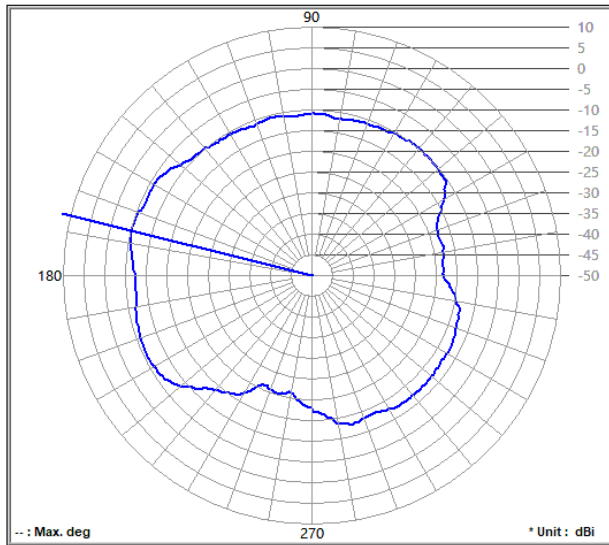
Antenna Type	Max. Gain (dBi)
METAL antenna	-5.02

#### 3.5.2 Antenna Pattern

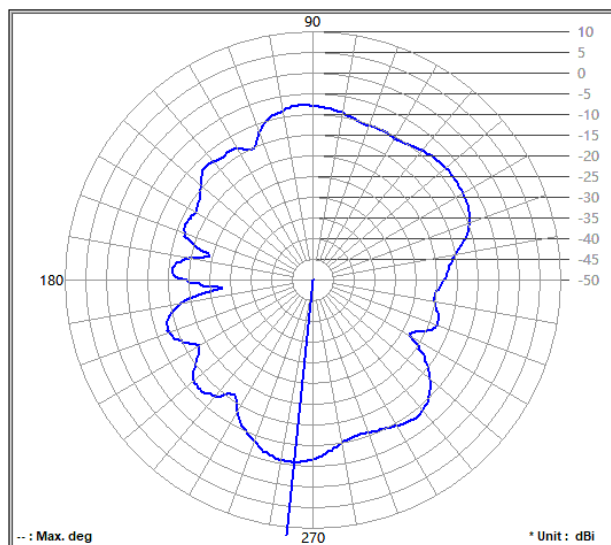




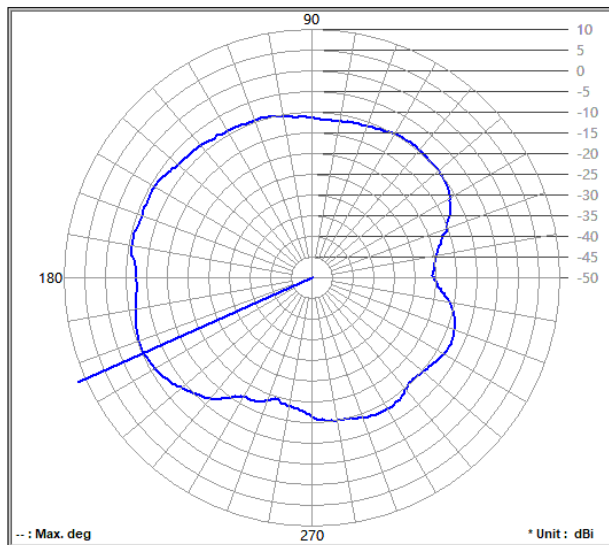
Frequency (MHz) : 2441.00    Antenna Polarity : Horizontal    Average Value (dBi) : -12.02  
 Maximum Value (dBi) : -7.74    Maximum Value (degree) : 97  
 Minimum Value (dBi) : -24.64    Minimum Value (degree) : 336



Frequency (MHz) : 2441.00    Antenna Polarity : Vertical    Average Value (dBi) : -10.21  
 Maximum Value (dBi) : -5.08    Maximum Value (degree) : 166  
 Minimum Value (dBi) : -21.52    Minimum Value (degree) : 248



Frequency (MHz) : 2480.00    Antenna Polarity : Horizontal    Average Value (dBi) : -11.02  
 Maximum Value (dBi) : -5.70    Maximum Value (degree) : 264  
 Minimum Value (dBi) : -27.84    Minimum Value (degree) : 185



Frequency (MHz) : 2480.00    Antenna Polarity : Vertical    Average Value (dBi) : -10.07  
 Maximum Value (dBi) : -5.43    Maximum Value (degree) : 204  
 Minimum Value (dBi) : -20.79    Minimum Value (degree) : 1

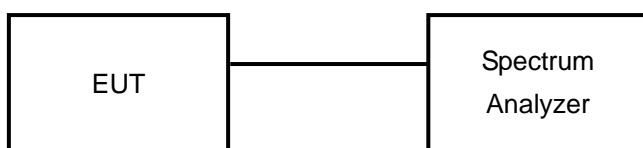
## 4 Test Results

### 4.1 Frequency Tolerance Measurement

#### 4.1.1 Limits of Frequency Tolerance Measurement

Tolerance of frequency shall be +/- 50ppm

#### 4.1.2 Test Setup



#### 4.1.3 Test Results

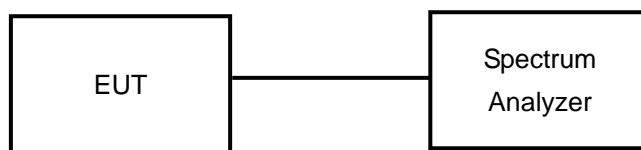
Channel	Frequency (MHz)	$V_{normal}$		$V_{max.}$		$V_{min.}$	
		Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)
0	2402	2402.000360	0.149	2402.000320	0.133	2402.000320	0.133
19	2440	2440.000320	0.131	2440.000279	0.114	2440.000279	0.114
39	2480	2480.000279	0.112	2480.000279	0.112	2480.000279	0.112

## 4.2 Occupied Bandwidth Measurement (99% power bandwidth)

### 4.2.1 Limits of Occupied Bandwidth Measurement

Item	Limit	Remark
Occupied bandwidth	<26MHz	-

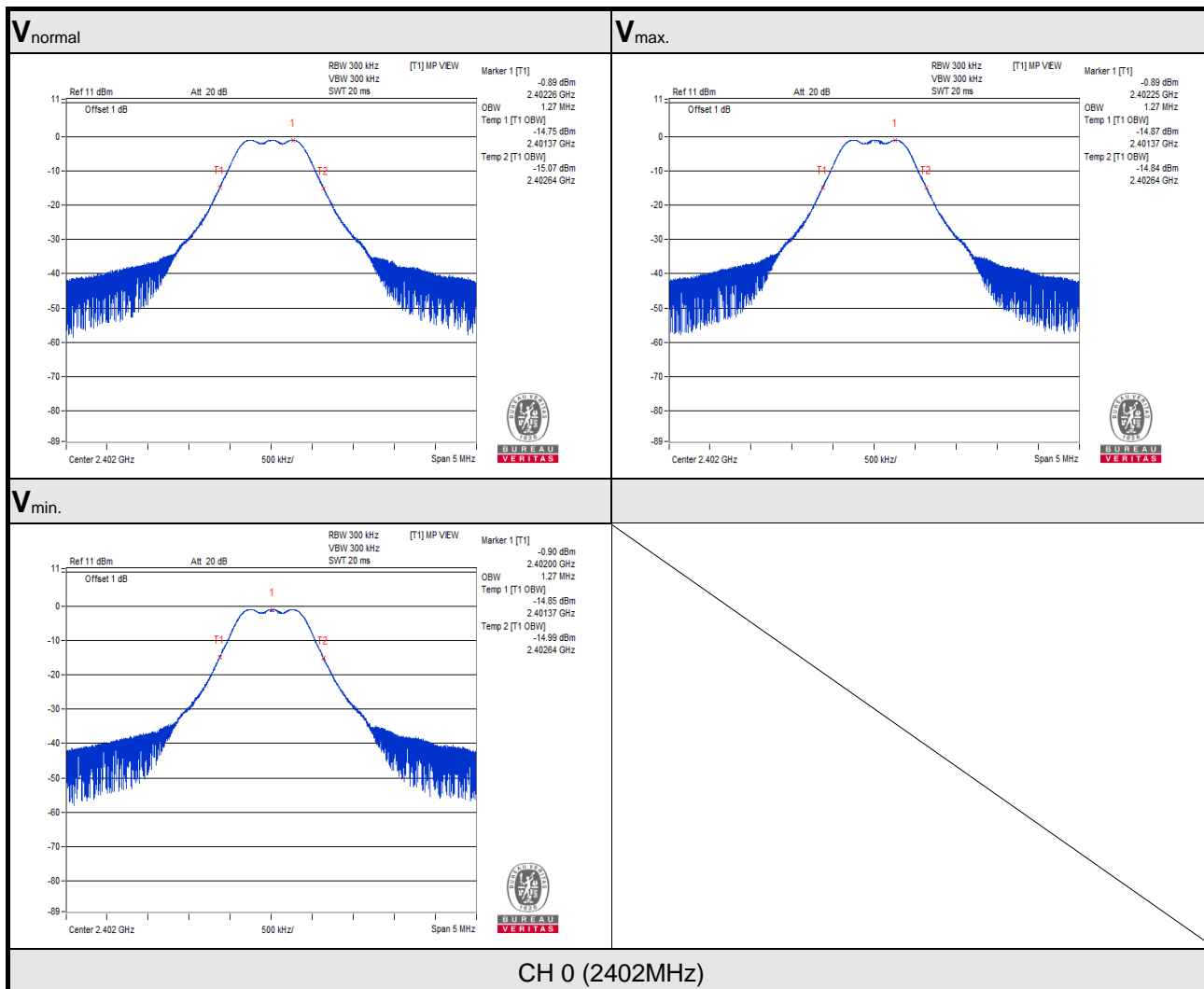
### 4.2.2 Test Setup

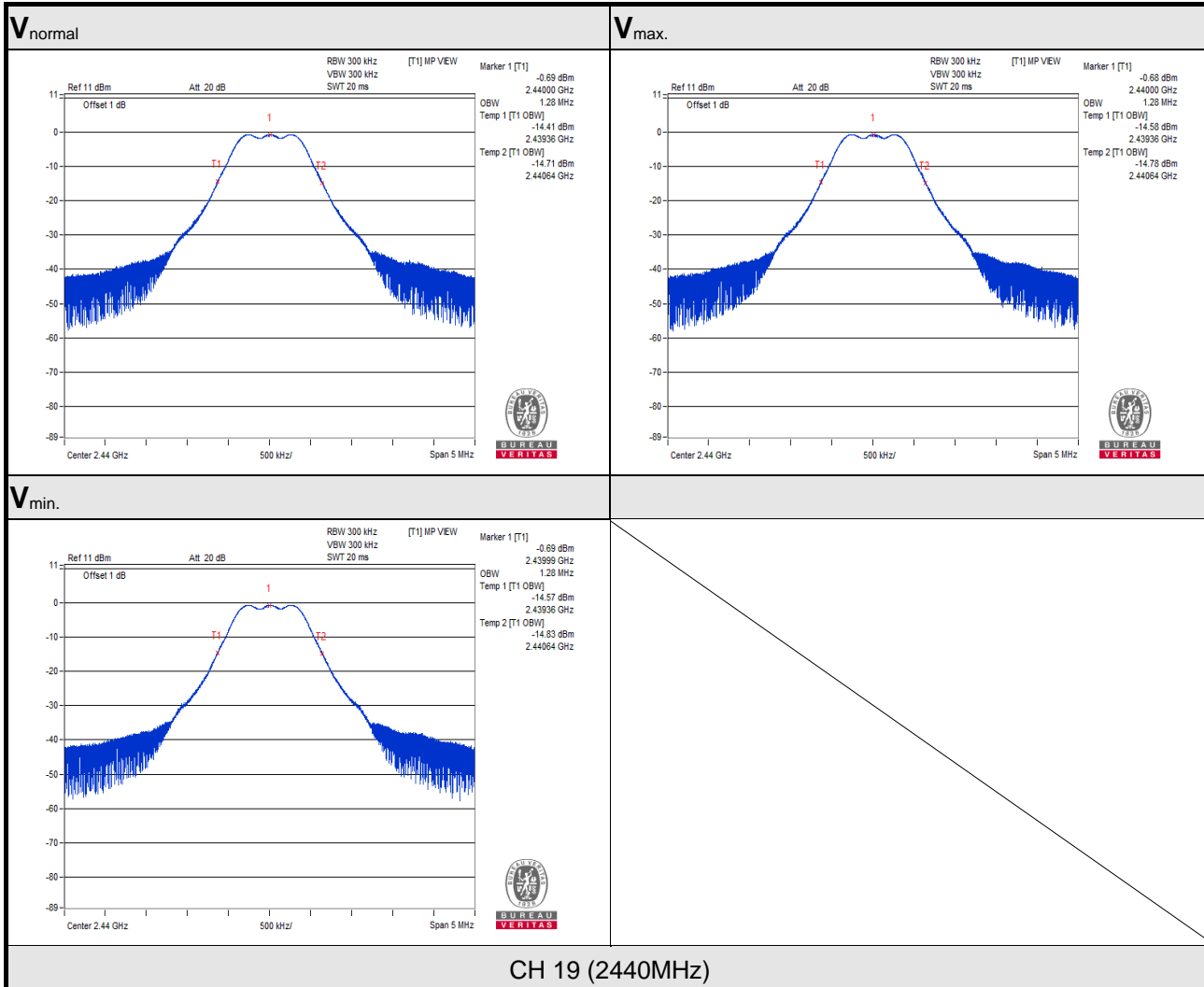


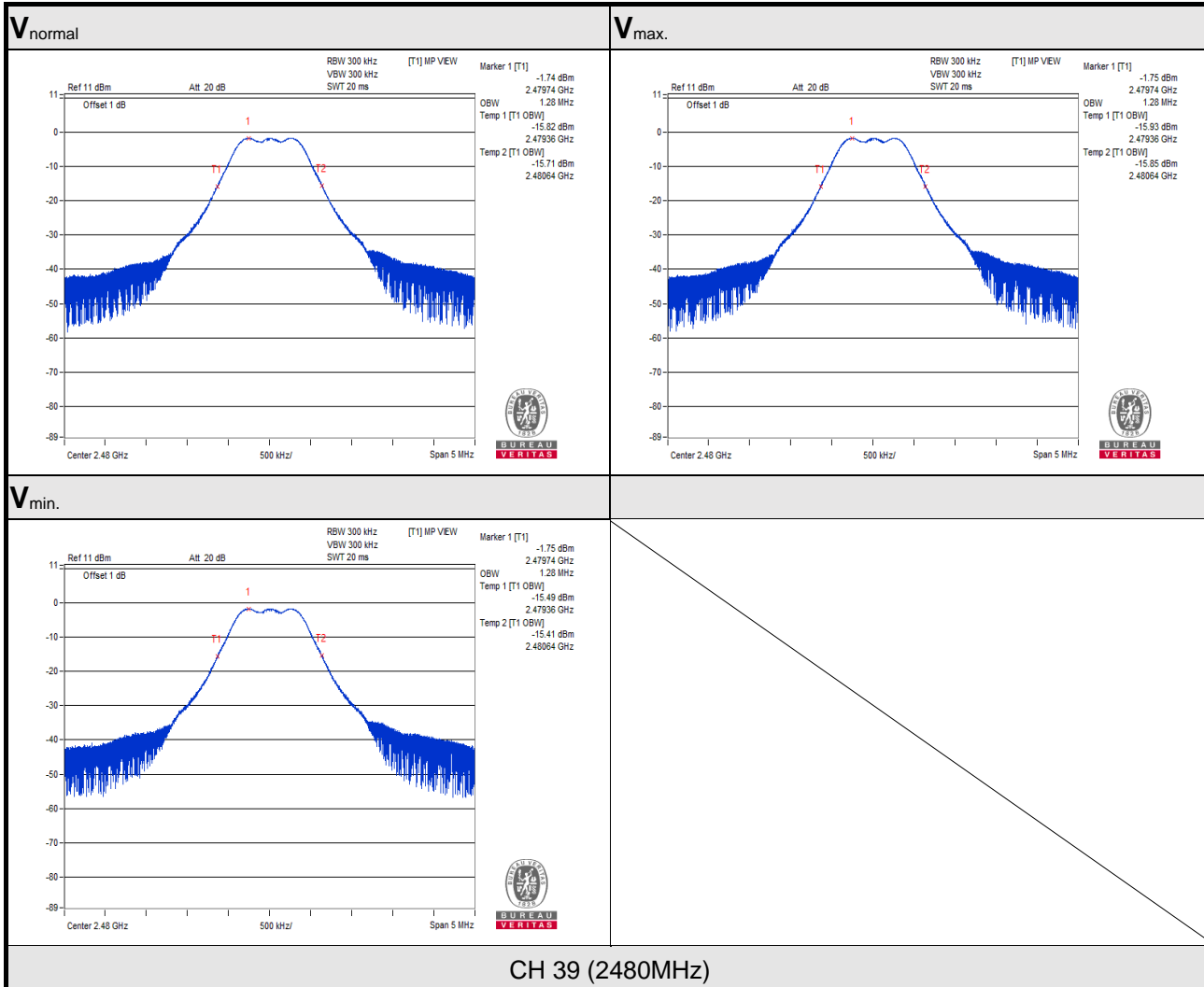
### 4.2.3 Test Results

Channel	Frequency (MHz)	$V_{normal}$	$V_{max.}$	$V_{min.}$
		Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
0	2402	1.27	1.27	1.27
19	2440	1.28	1.28	1.28
39	2480	1.28	1.28	1.28

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







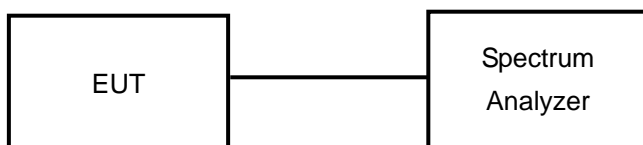


### 4.3 Spurious Emissions for Transmitter Measurement

#### 4.3.1 Limits of Spurious Emissions

Frequencies (MHz)	Limit
Operating frequency 2400 to 2483.5MHz	
30.0MHz to 1000.0MHz	$\leq 0.25 \text{ uW/100kHz}$
1000.0MHz to 2387MHz	$\leq 2.5 \text{ uW/MHz}$
2387.0MHz to 2400.0MHz	$\leq 25 \text{ uW/MHz}$
2483.5MHz to 2496.5MHz	$\leq 25 \text{ uW/MHz}$
2496.5MHz to 12500.0MHz	$\leq 2.5 \text{ uW/MHz}$

#### 4.3.2 Test Setup



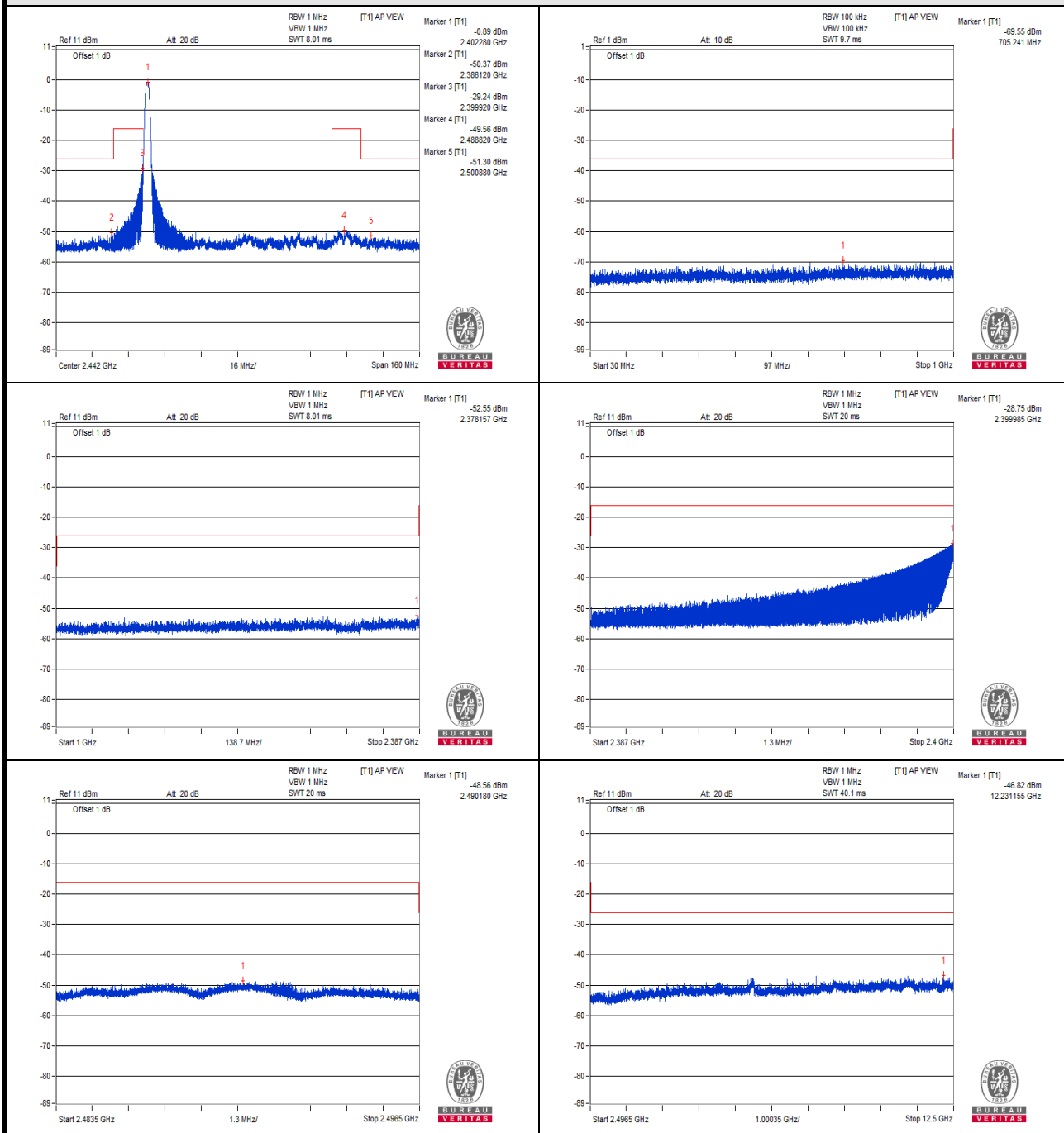
#### 4.3.3 Test Results

TEST CHANNEL		CH 0 (2402MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
<b>V<sub>normal</sub></b>	30MHz to 1000MHz	705.241	0.000111	0.25	PASS
	1000MHz to 2387MHz	2378.157	0.005559	2.5	PASS
	2387MHz to 2400MHz	2399.985	1.333521	25	PASS
	2483.5MHz to 2496.5MHz	2490.180	0.013932	25	PASS
	2496.5MHz to 12500MHz	12231.155	0.020797	2.5	PASS
<b>V<sub>max.</sub></b>	30MHz to 1000MHz	838.980	0.000103	0.25	PASS
	1000MHz to 2387MHz	2382.145	0.008072	2.5	PASS
	2387MHz to 2400MHz	2399.959	1.270574	25	PASS
	2483.5MHz to 2496.5MHz	2490.481	0.018072	25	PASS
	2496.5MHz to 12500MHz	10838.168	0.019634	2.5	PASS
<b>V<sub>min.</sub></b>	30MHz to 1000MHz	695.783	0.000096	0.25	PASS
	1000MHz to 2387MHz	2332.040	0.006427	2.5	PASS
	2387MHz to 2400MHz	2399.985	1.306171	25	PASS
	2483.5MHz to 2496.5MHz	2491.280	0.015241	25	PASS
	2496.5MHz to 12500MHz	10581.828	0.018365	2.5	PASS
TEST CHANNEL		CH 19 (2440MHz)			
<b>V<sub>normal</sub></b>	30MHz to 1000MHz	986.541	0.000094	0.25	PASS
	1000MHz to 2387MHz	2375.383	0.006209	2.5	PASS
	2387MHz to 2400MHz	2394.397	0.009683	25	PASS
	2483.5MHz to 2496.5MHz	2488.726	0.010471	25	PASS
	2496.5MHz to 12500MHz	6938.054	0.020989	2.5	PASS
<b>V<sub>max.</sub></b>	30MHz to 1000MHz	878.265	0.000092	0.25	PASS
	1000MHz to 2387MHz	2373.476	0.009141	2.5	PASS
	2387MHz to 2400MHz	2394.423	0.011912	25	PASS
	2483.5MHz to 2496.5MHz	2485.034	0.010351	25	PASS
	2496.5MHz to 12500MHz	11993.572	0.020845	2.5	PASS
<b>V<sub>min.</sub></b>	30MHz to 1000MHz	888.935	0.000094	0.25	PASS
	1000MHz to 2387MHz	2373.476	0.006471	2.5	PASS
	2387MHz to 2400MHz	2396.345	0.011722	25	PASS
	2483.5MHz to 2496.5MHz	2485.001	0.010814	25	PASS
	2496.5MHz to 12500MHz	11205.797	0.019409	2.5	PASS

TEST CHANNEL		CH 39 (2480MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
<b>V<sub>normal</sub></b>	30MHz to 1000MHz	863.957	0.000088	0.25	PASS
	1000MHz to 2387MHz	2370.702	0.007145	2.5	PASS
	2387MHz to 2400MHz	2390.945	0.016482	25	PASS
	2483.5MHz to 2496.5MHz	2483.506	0.295121	25	PASS
	2496.5MHz to 12500MHz	11360.851	0.023388	2.5	PASS
<b>V<sub>max.</sub></b>	30MHz to 1000MHz	980.115	0.000092	0.25	PASS
	1000MHz to 2387MHz	2370.876	0.008810	2.5	PASS
	2387MHz to 2400MHz	2390.261	0.018707	25	PASS
	2483.5MHz to 2496.5MHz	2483.503	0.305492	25	PASS
	2496.5MHz to 12500MHz	11367.102	0.018923	2.5	PASS
<b>V<sub>min.</sub></b>	30MHz to 1000MHz	752.892	0.000098	0.25	PASS
	1000MHz to 2387MHz	2367.582	0.007834	2.5	PASS
	2387MHz to 2400MHz	2395.242	0.014723	25	PASS
	2483.5MHz to 2496.5MHz	2483.514	0.313329	25	PASS
	2496.5MHz to 12500MHz	10468.039	0.017701	2.5	PASS

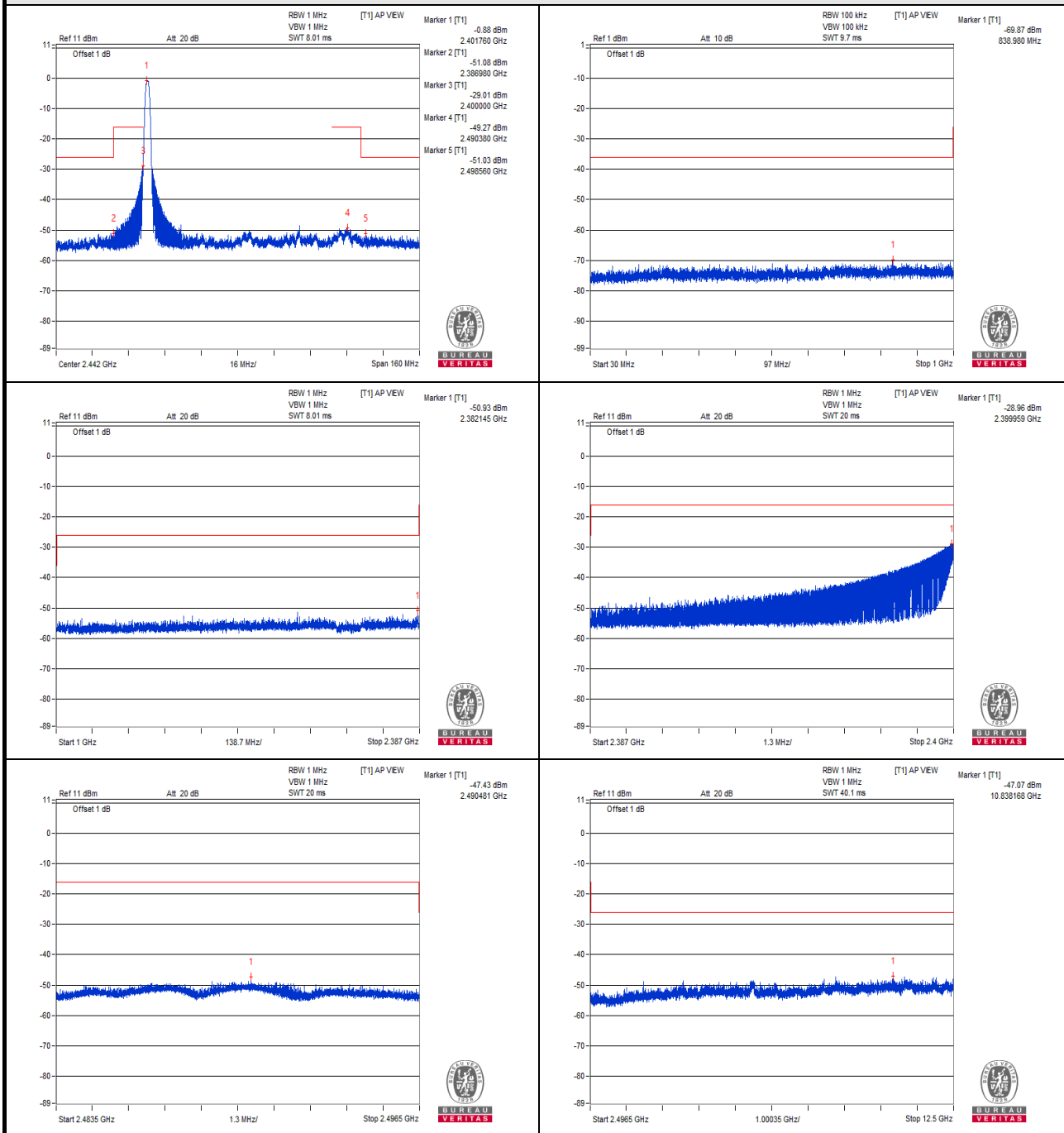
**NOTE:** The spectrum plots are attached on the following pages.

Vnormal



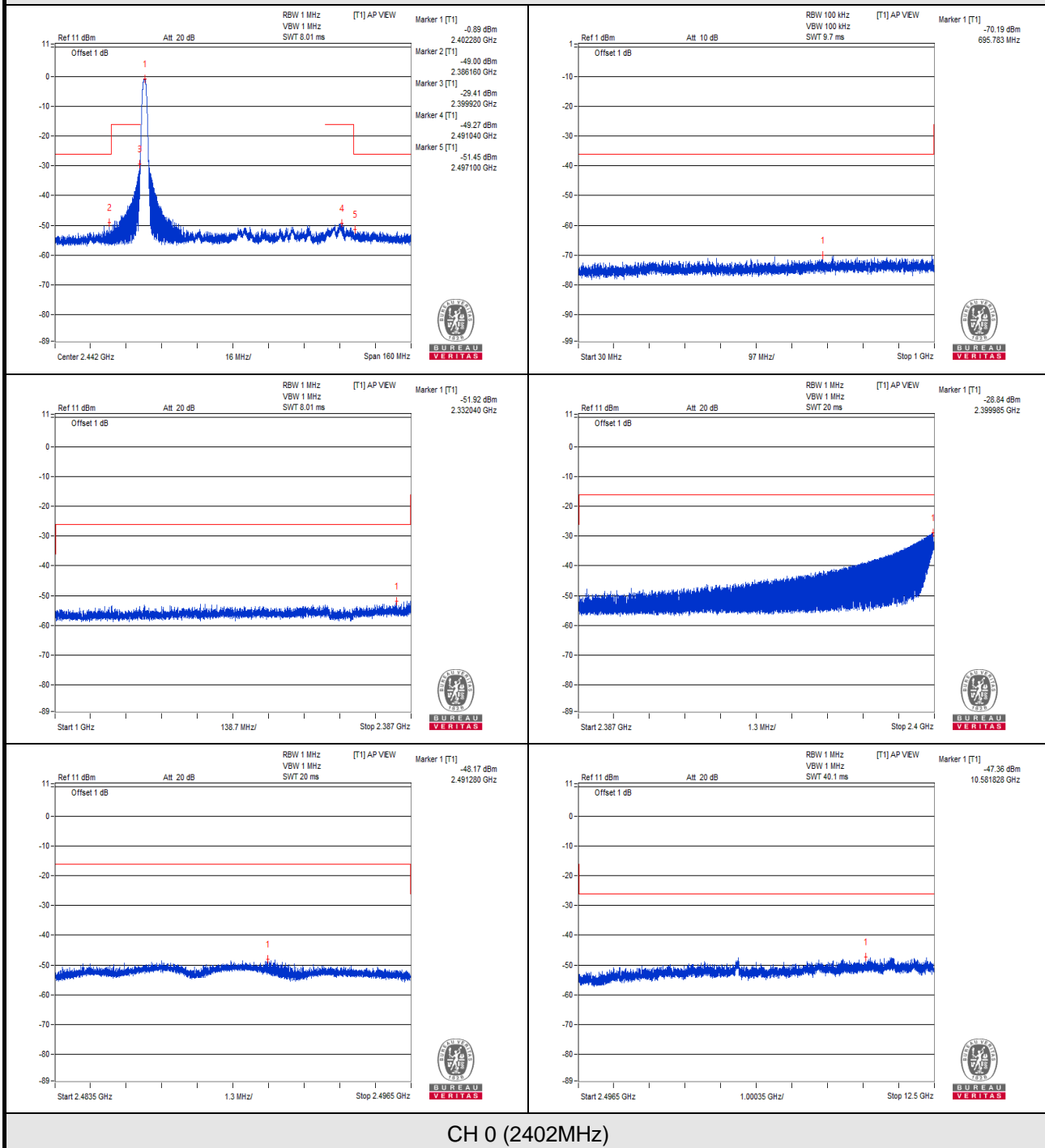
CH 0 (2402MHz)

V<sub>max</sub>.

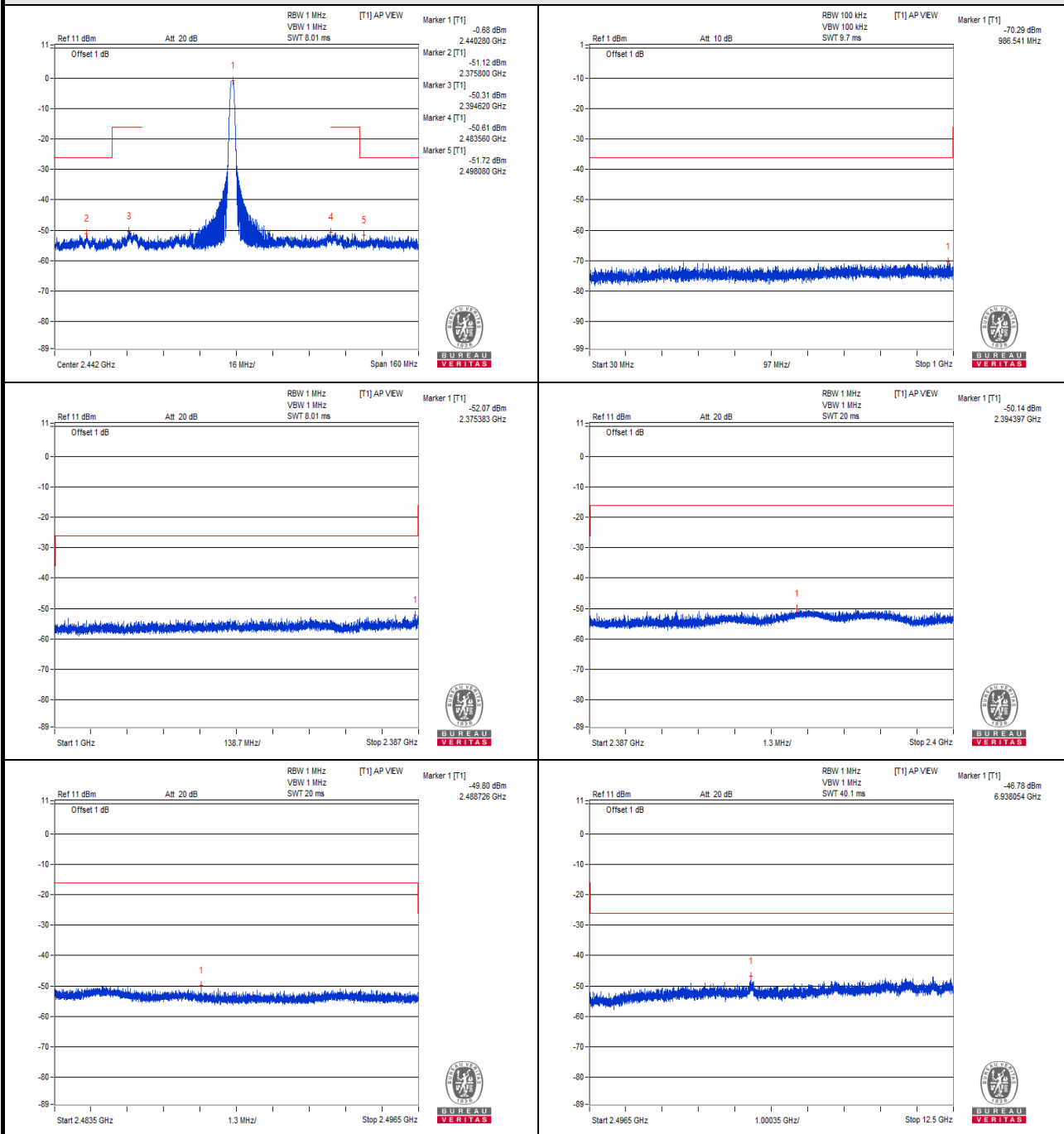


CH 0 (2402MHz)

V min.

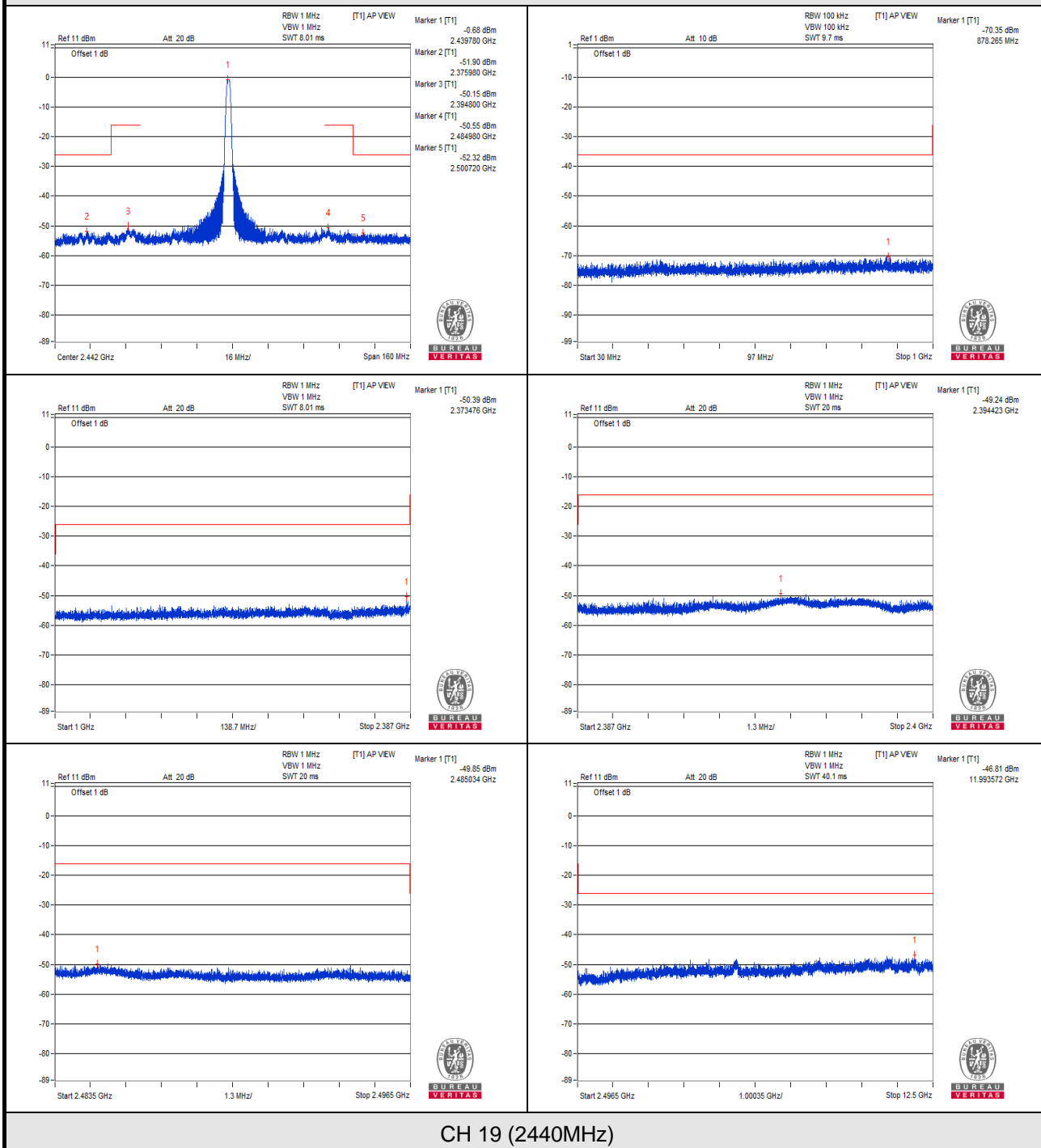


Vnormal



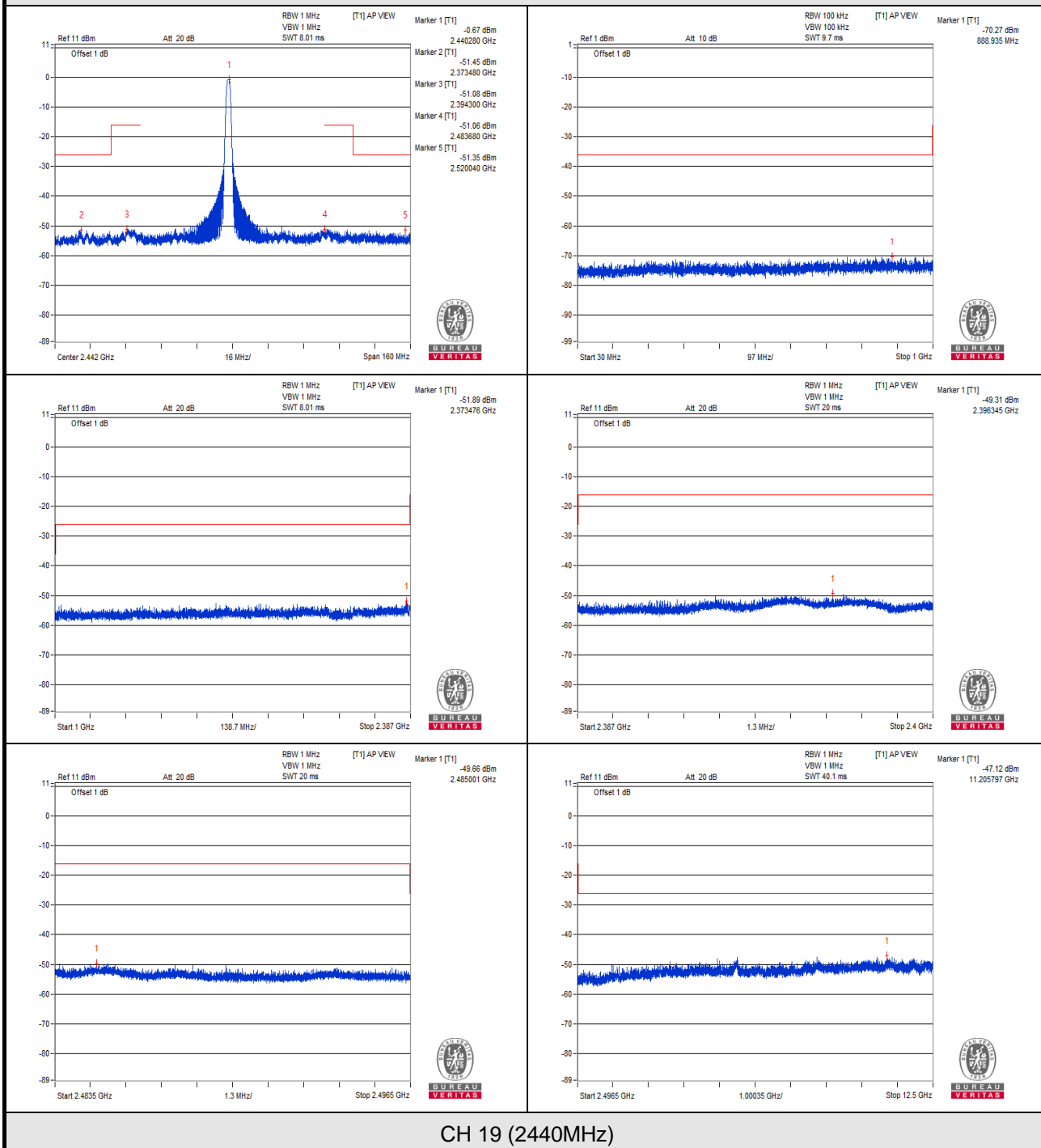
CH 19 (2440MHz)

V<sub>max</sub>.



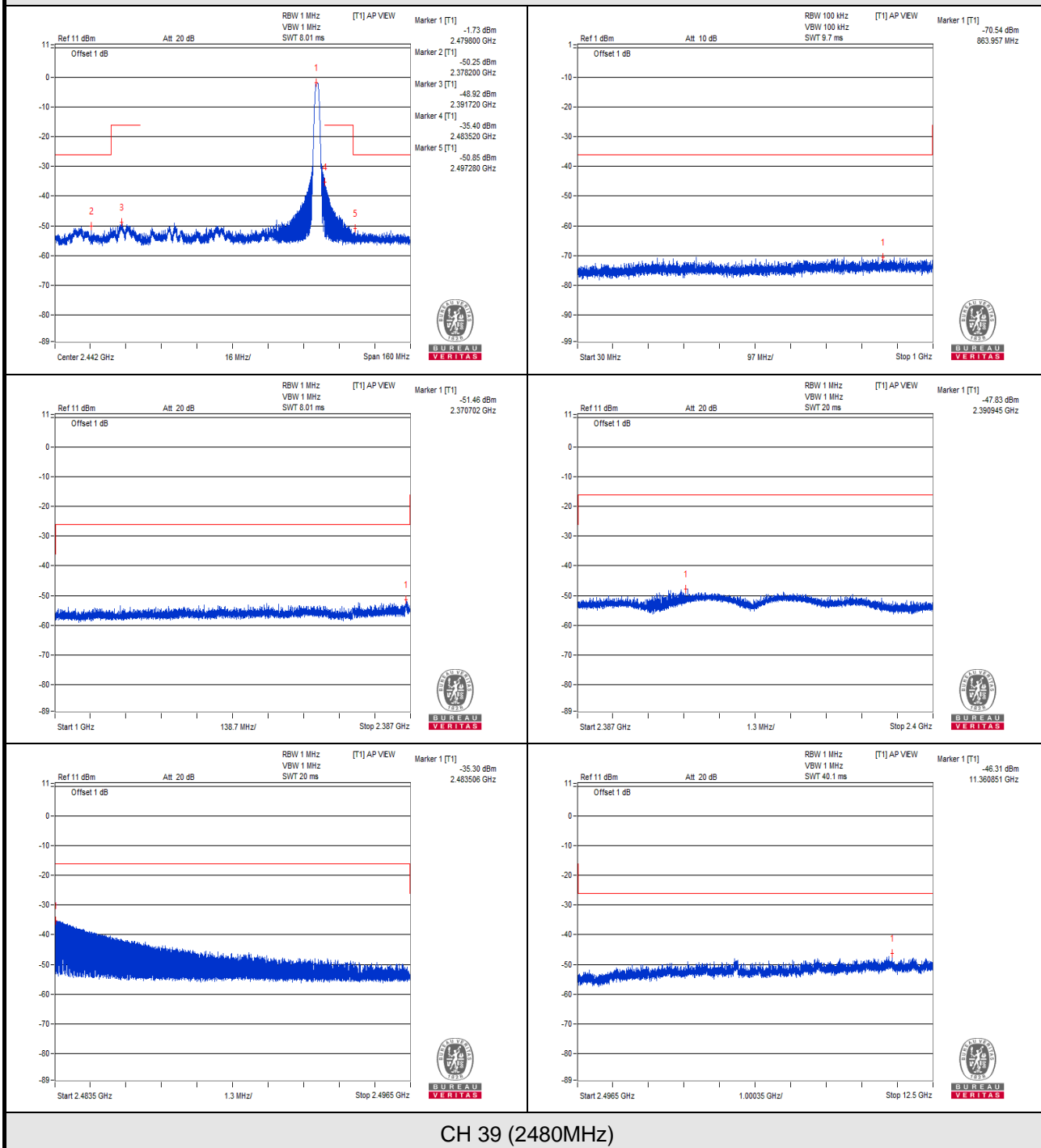


V<sub>min</sub>.



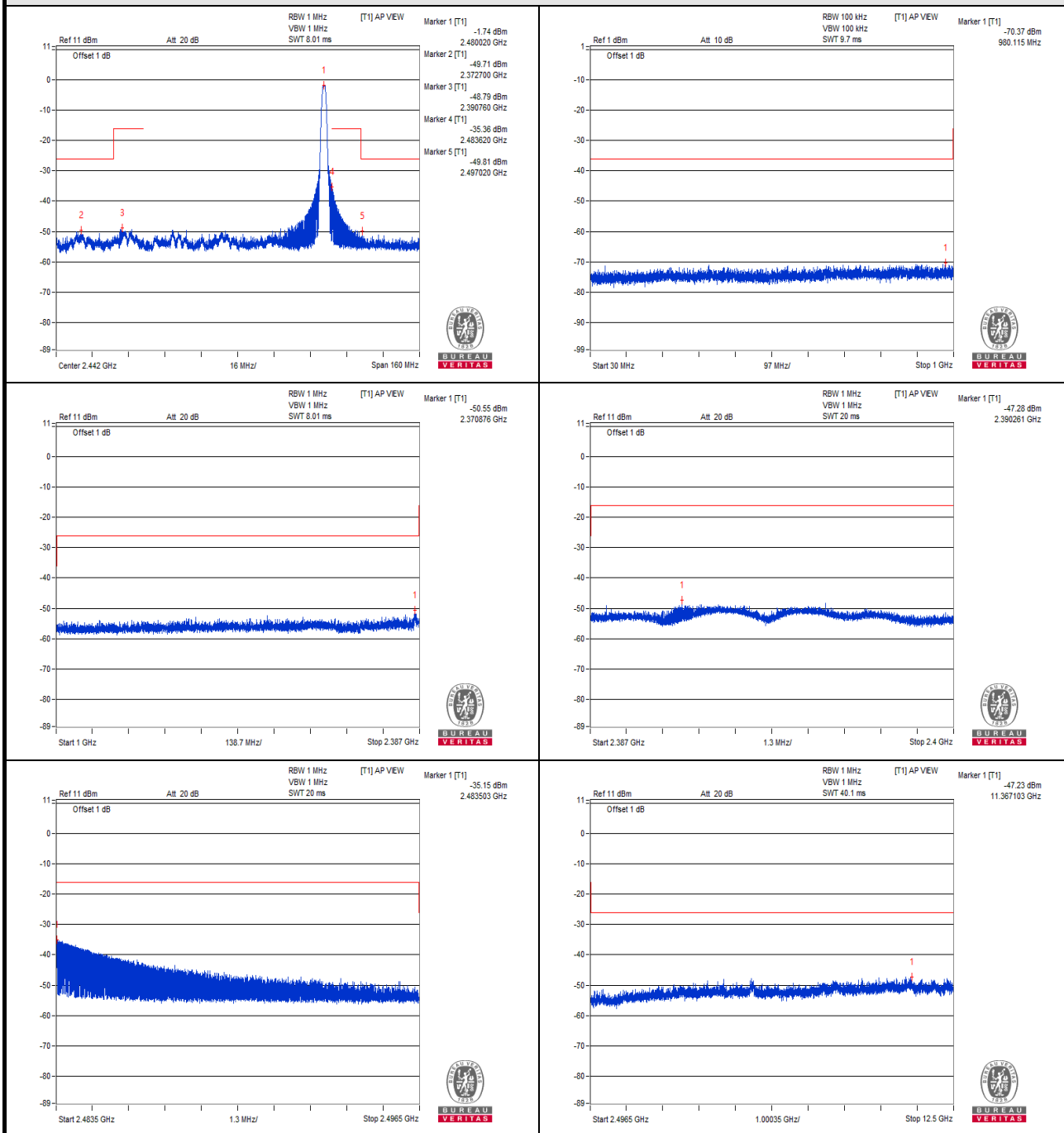
CH 19 (2440MHz)

# Vnormal



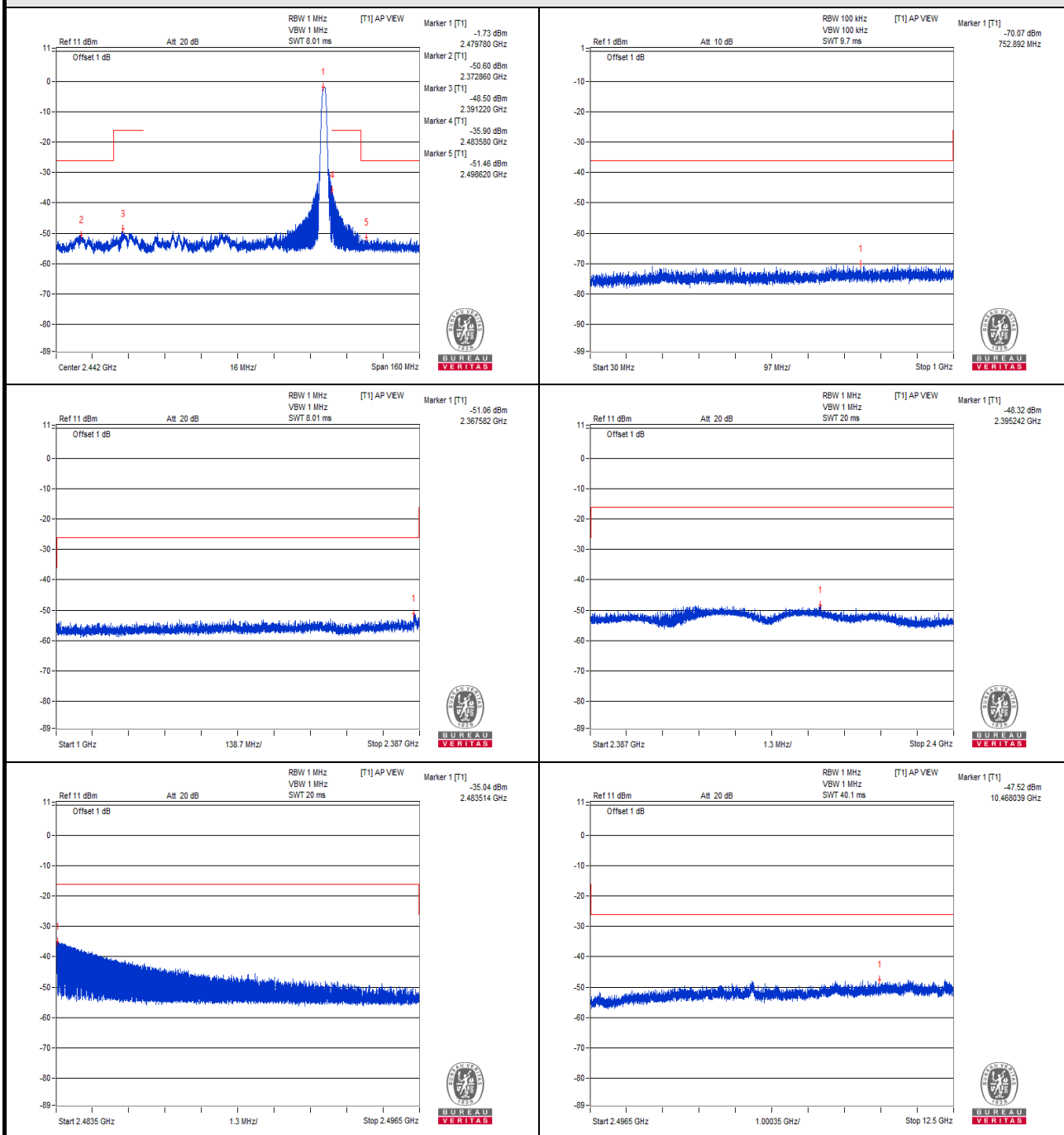
CH 39 (2480MHz)

V<sub>max</sub>.



CH 39 (2480MHz)

V<sub>min</sub>.



CH 39 (2480MHz)

## 4.4 Antenna Power Measurement

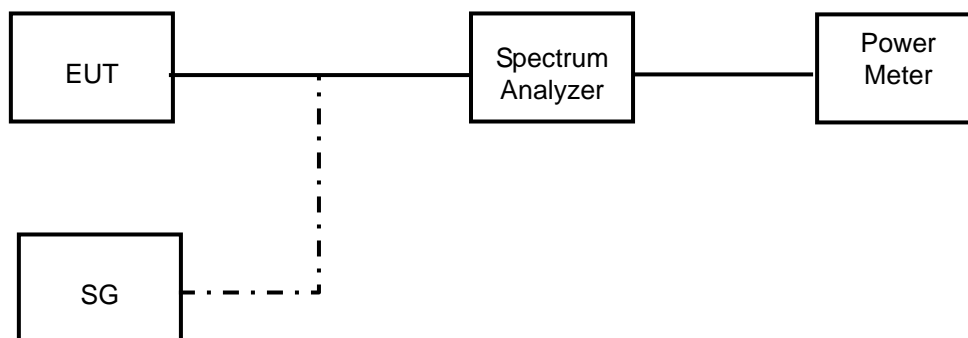
### 4.4.1 Limits of Antenna Power

Modulation Method	Frequency Band Used	Antenna Power (Max.)	EIRP Limit (Note 3)
DSSS	2400 – 2483.5 MHz	10mW/MHz	12.14 dBm/MHz ~ 22.14 dBm/MHz (16.368 mW/MHz ~ 163.68 mW/MHz)
OFDM (Note 1)	2400 – 2483.5 MHz	10mW/MHz	12.14 dBm/MHz ~ 22.14 dBm/MHz (16.368 mW/MHz ~ 163.68 mW/MHz)
OFDM (Note 2)	2400 – 2483.5 MHz	5mW/MHz	9.13 dBm/MHz ~ 19.13 dBm/MHz (8.185 mW/MHz ~ 81.846 mW/MHz)
Other than the above	2400 – 2483.5 MHz	10mW	12.14 dBm ~ 22.14 dBm (16.368 mW ~ 163.68 mW)

Note:

1. Occupied bandwidth is less than 26MHz
2. Occupied bandwidth is more than 26MHz and less than 40MHz
3. EIRP limit is variable by the HPBA, the HPBA (half-power beam width) of the antenna shall be 360/A degrees or less, where  $A = \text{EIRP} / (2.14 \text{ dBi} + \text{Antenna Power (limit)})$ .
4. Tolerance of antenna power shall be +20% (upper value) and -80% (lower value).

### 4.4.2 Test Setup



#### 4.4.3 Test Results

Voltage	Channel Number	Frequency (MHz)	Conducted RF Output Power (mW)	Radiated RF Output Power (mW)
<b>V<sub>normal</sub></b>	<b>0</b>	<b>2402</b>	0.893	0.281
	<b>19</b>	<b>2440</b>	0.899	0.283
	<b>39</b>	<b>2480</b>	0.729	0.229
<b>V<sub>max.</sub></b>	<b>0</b>	<b>2402</b>	0.881	0.277
	<b>19</b>	<b>2440</b>	0.879	0.277
	<b>39</b>	<b>2480</b>	0.697	0.219
<b>V<sub>min.</sub></b>	<b>0</b>	<b>2402</b>	<b>0.920</b>	<b>0.290</b>
	<b>19</b>	<b>2440</b>	0.877	0.276
	<b>39</b>	<b>2480</b>	0.705	0.222
<b>Max. Limit (mW):</b>			10	-
<b>Rated Power (mW):</b>			1	-
<b>Tolerance of Antenna Power (mW):</b>			0.2 ~ 1.2	-
<b>Max. EIRP Limit (mW):</b>			-	16.368

Note: 1. Antenna gain is -5.02 dBi.

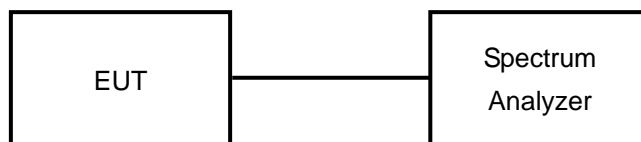
2. The radiated RF output power is a “calculated” value derived from the conducted value.
3. Formula: Radiated RF output power = Conducted RF output power + Antenna gain

## 4.5 Spurious Emissions for Receiver

### 4.5.1 Limits of Spurious Emissions For Receiver

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

### 4.5.2 Test Setup

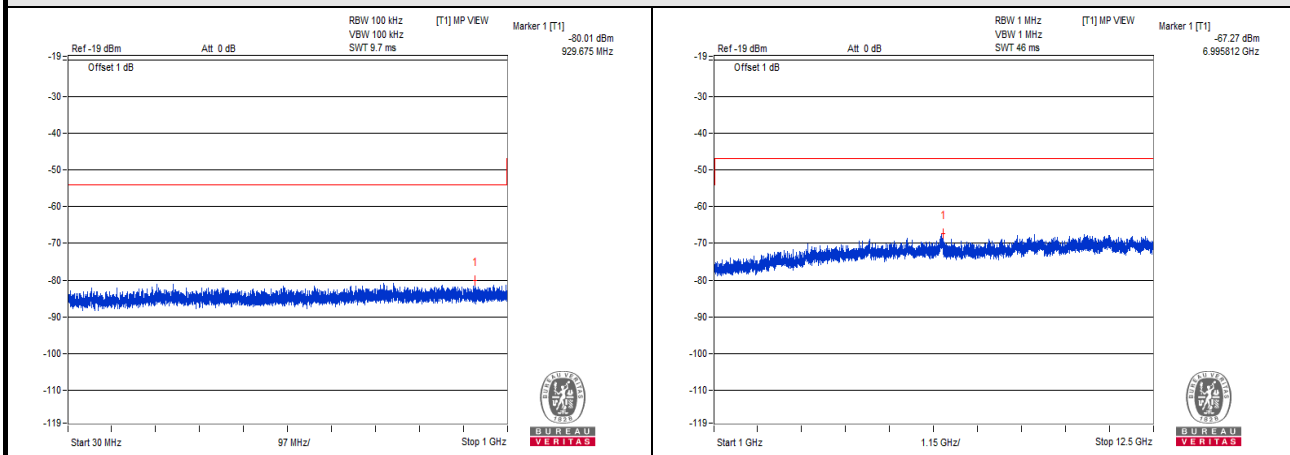


#### 4.5.3 Test Result

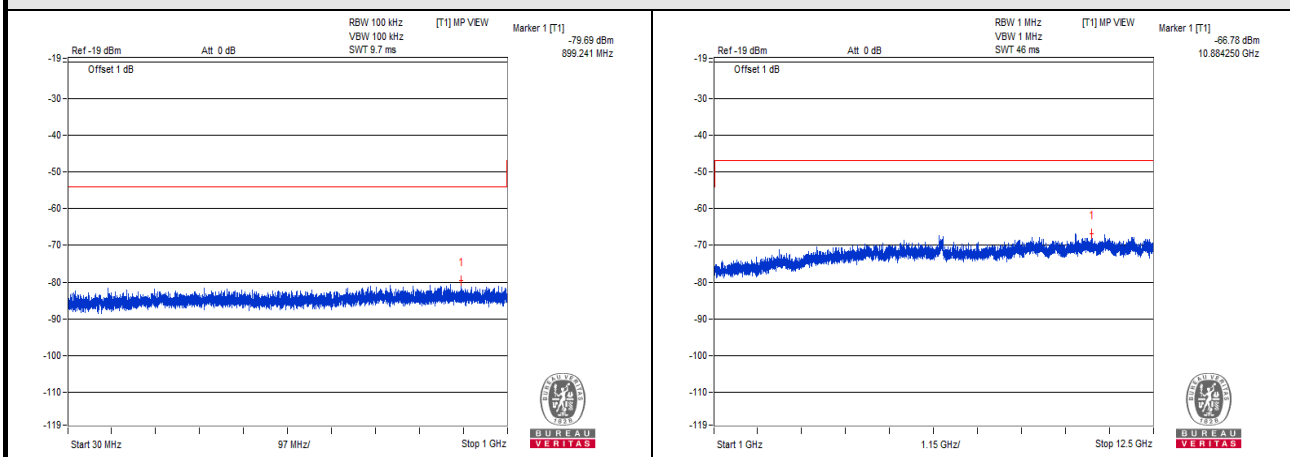
TEST CHANNEL		CH 0 (2402MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(nW)	LIMIT (nW)	RESULT
<b>V<sub>normal</sub></b>	30MHz to 1000MHz	929.675	0.009977	4.0	PASS
	1000MHz to 12500MHz	6995.812	0.187499	20.0	PASS
<b>V<sub>max.</sub></b>	30MHz to 1000MHz	899.241	0.010740	4.0	PASS
	1000MHz to 12500MHz	10884.250	0.209894	20.0	PASS
<b>V<sub>min.</sub></b>	30MHz to 1000MHz	839.465	0.008690	4.0	PASS
	1000MHz to 12500MHz	11263.750	0.217270	20.0	PASS
TEST CHANNEL		CH 19 (2440MHz)			
<b>V<sub>normal</sub></b>	30MHz to 1000MHz	900.696	0.011482	4.0	PASS
	1000MHz to 12500MHz	10573.750	0.208449	20.0	PASS
<b>V<sub>max.</sub></b>	30MHz to 1000MHz	933.676	0.009333	4.0	PASS
	1000MHz to 12500MHz	11268.062	0.228034	20.0	PASS
<b>V<sub>min.</sub></b>	30MHz to 1000MHz	623.033	0.008872	4.0	PASS
	1000MHz to 12500MHz	10644.187	0.202768	20.0	PASS
TEST CHANNEL		CH 39 (2480MHz)			
<b>V<sub>normal</sub></b>	30MHz to 1000MHz	721.852	0.009016	4.0	PASS
	1000MHz to 12500MHz	11190.437	0.193197	20.0	PASS
<b>V<sub>max.</sub></b>	30MHz to 1000MHz	812.305	0.010209	4.0	PASS
	1000MHz to 12500MHz	10350.937	0.180302	20.0	PASS
<b>V<sub>min.</sub></b>	30MHz to 1000MHz	909.668	0.009863	4.0	PASS
	1000MHz to 12500MHz	6903.812	0.207970	20.0	PASS



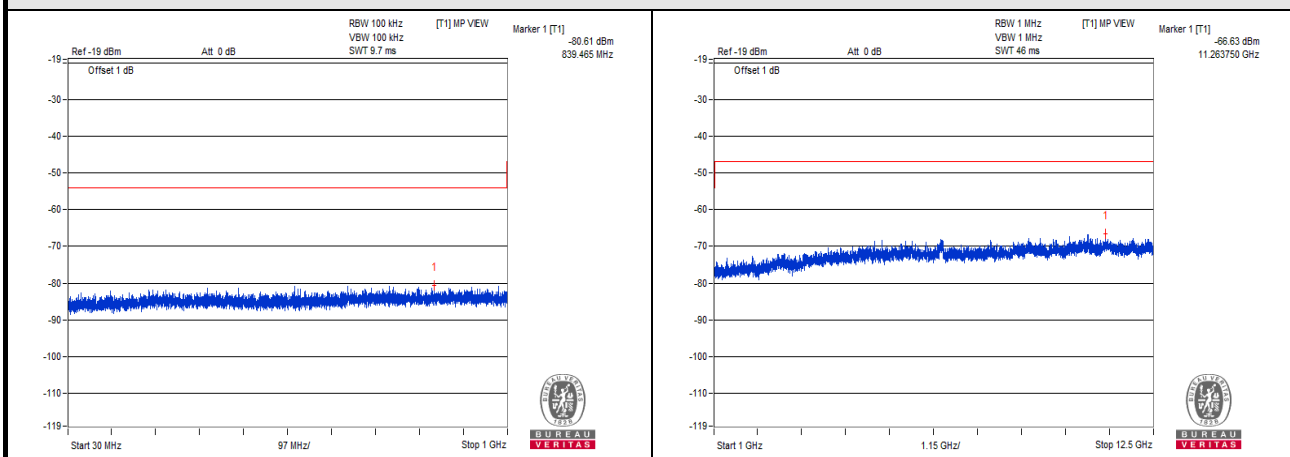
## V<sub>normal</sub>



## V<sub>max.</sub>

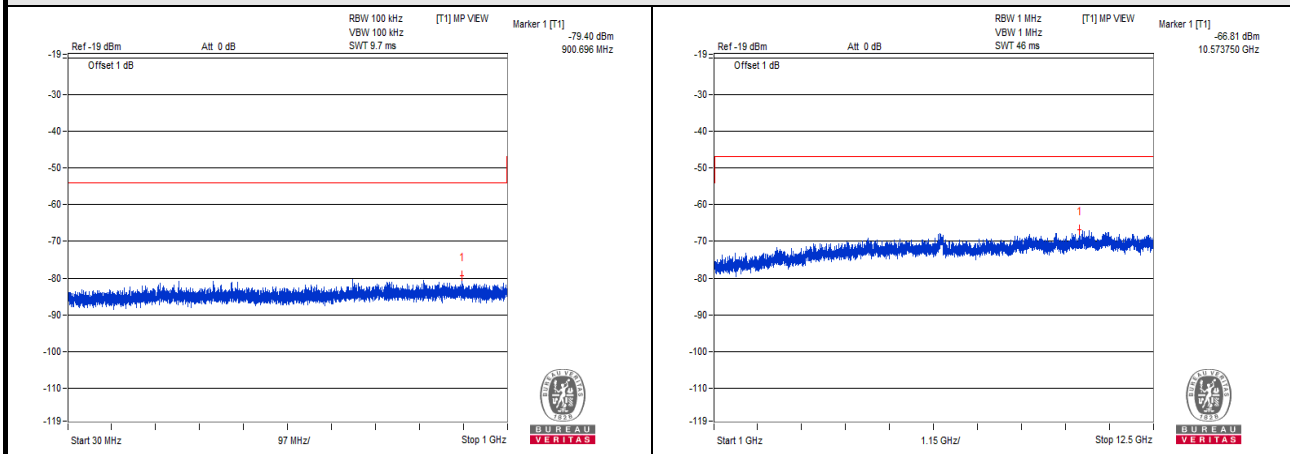


## V<sub>min.</sub>

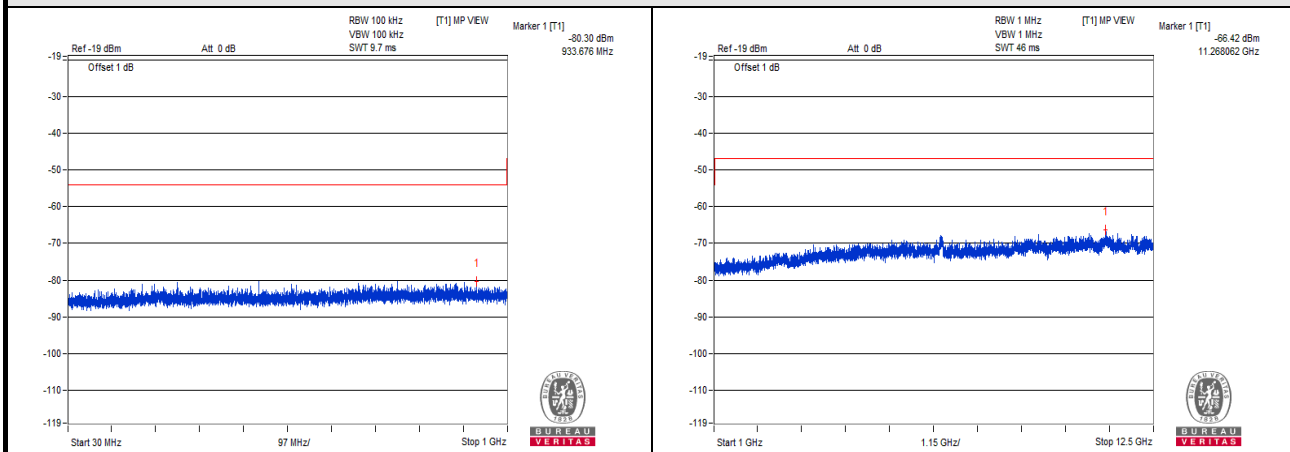


CH 0 (2402MHz)

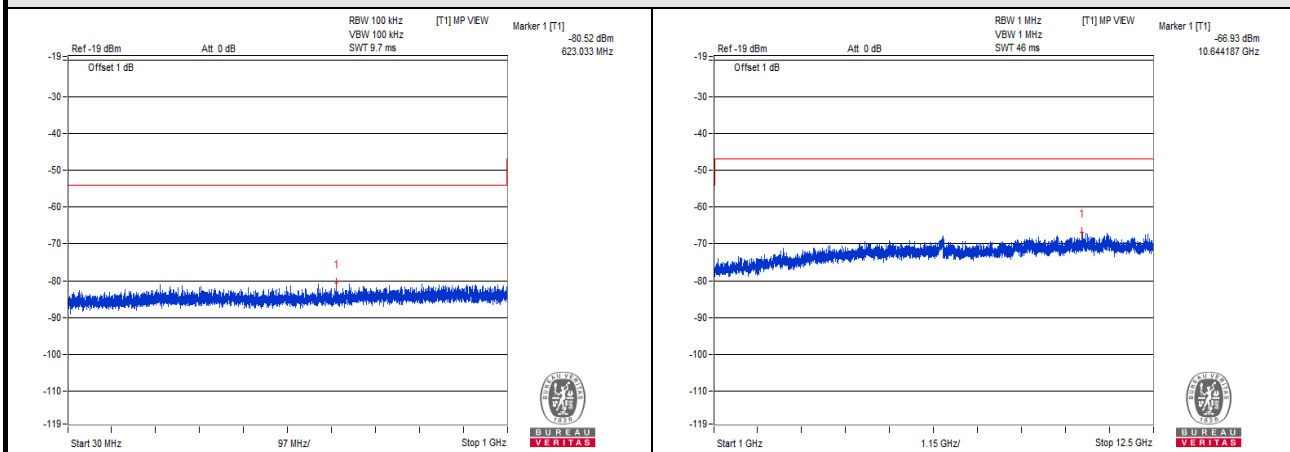
## V<sub>normal</sub>



## V<sub>max.</sub>

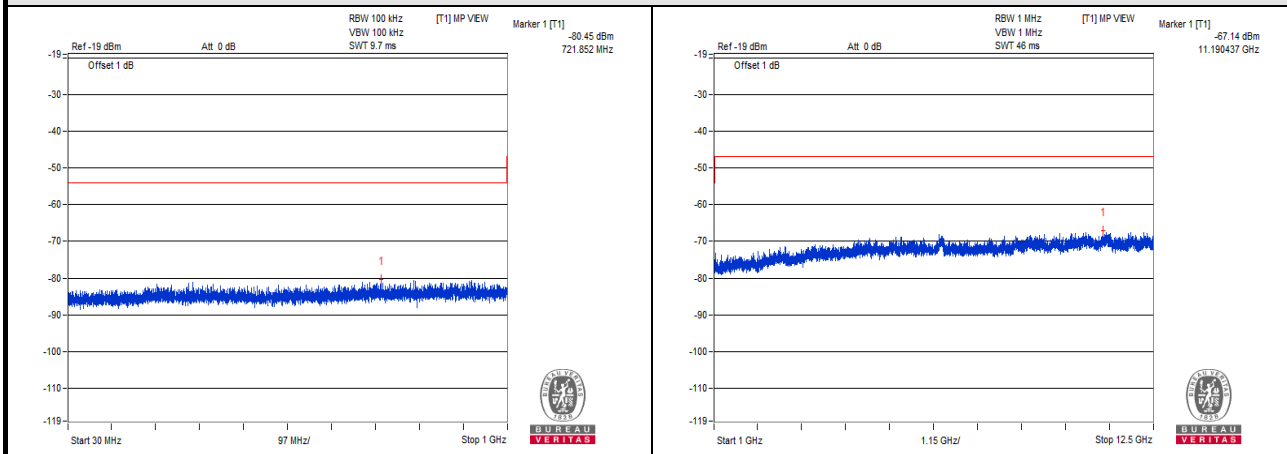


## V<sub>min.</sub>

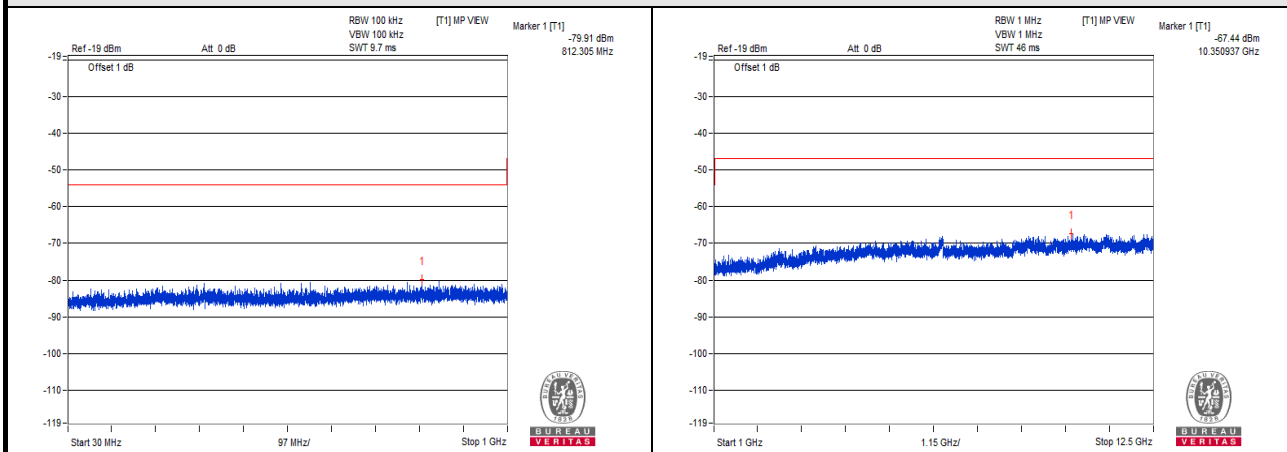


CH 19 (2440MHz)

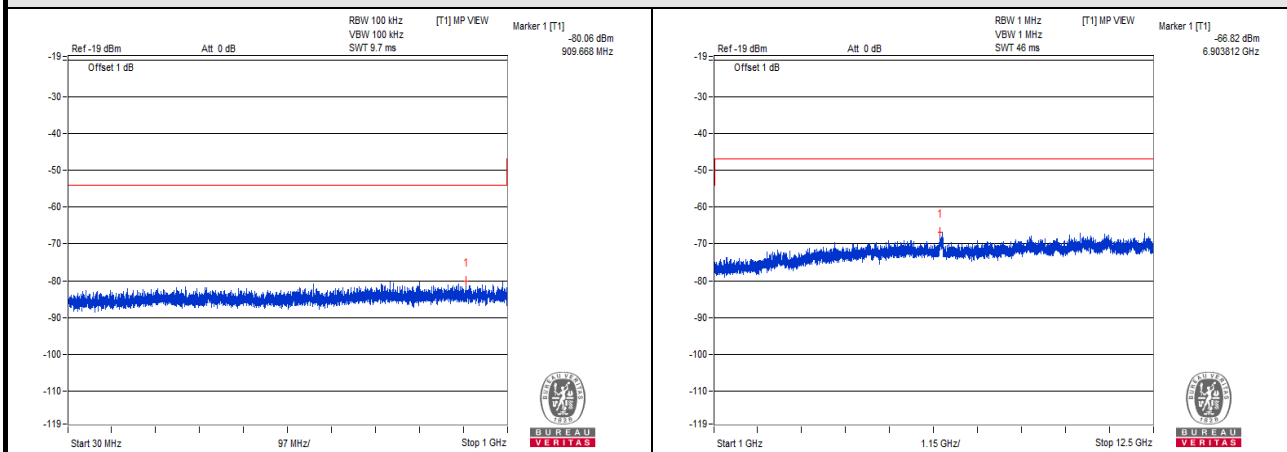
## V<sub>normal</sub>



## V<sub>max.</sub>



## V<sub>min.</sub>



CH 39 (2480MHz)

## 4.6 Interference Prevention Function

### 4.6.1 Limits of Interference Prevention Function

NA

### 4.6.2 Test Setup



### 4.6.3 Test Results

Link Mode	Test Result
Bluetooth	PASS

## 5 Photographs of the Test Configuration



## Appendix - Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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