

Radio Test Report

Report No.: RJBXLC-WTW-P21030971

Test Model: BlueBeacon SafeX

Received Date: Apr. 8, 2021

Test Date: Apr. 9, 2021

Issued Date: Apr. 15, 2021

Applicant: Blueup Srl

Address: Loc. Belvedere, Ingresso 2, 99, Colle di Val d'Elsa (SI), 53034, Italy

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

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Release Control Record

Issue No.	Description	Date Issued
RJBXLC-WTW-P21030971	Original release.	Apr. 15, 2021

1 Certificate of Conformity

Product: Bluetooth Tag

Brand: Blueup Srl

Test Model: BlueBeacon SafeX

Sample Status: Engineering sample

Applicant: Blueup Srl

Test Date: Apr. 9, 2021

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:

Apr. 15, 2021

Annie Chang / Senior Specialist

Approved by :

Rex Lai

Date:

Apr. 15, 2021

Rex Lai / Associate Technical Manager

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)
General Provisions				
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
Transmitting Equipment				
F	3.2 (2)	4.4	Antenna power	C
--	--	--	SAR	NA
Transmitting Antenna				
--	--	3.5	Type, configuration, etc. of transmitting antenna	C
--	--	3.5	Direction pattern of transmitting antenna	C
Receiving Equipment				
G	3.3 (1)	4.5	Spurious emissions of receiver	C
--	--	3.5	Refer to all articles for transmitting antenna	C
Operating Frequency 2400 to 2483.5MHz				
--	3.7 (1)	3.2	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
ROHDE & SCHWARZ Spectrum Analyzer	FSV40	101042	Sep. 8, 2020	Sep. 7, 2021	ETC	c)
ROHDE & SCHWARZ Signal Generator	SMR 40	100231	Jul. 7, 2020	Jul. 6, 2021	ETC	c)
Anritsu Power Sensor	MA2411B	0738404	Apr. 13, 2020	Apr. 12, 2021	ETC	c)
Anritsu Power Meter	ML2495A	0842014	Apr. 13, 2020	Apr. 12, 2021	ETC	c)
KEYSIGHT MIMO Powermeasurement Test set	U2021XA	U2021XA-001	Jun. 16, 2020	Jun. 15, 2021	ETC	c)
KEYSIGHT Spectrum Analyzer	N9030A	MY54490260	Jul. 22, 2020	Jul. 21, 2021	ETC	c)
KEYSIGHT MXG Vector Signal Generator	N5182B	MY53052658	May 10, 2020	May 9, 2021	ETC	c)
Programable DC Source IDRC	DSP-030-025 HD	500157	Jul. 10, 2020	Jul. 9, 2021	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) ~ TELEC EngineeringCenter, Intertek Japan K.K., Keysight Technologies, Inc ~.
- b) : Correction conducted pursuant to the provisions of Article 135 or Article 144 of the MeasurementLaw (Law No. 51 of 1992) ~ Japan Calibration Service Syste ~
- c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted bythe NICT or a designated calibration agency under Article 102-18 paragraph (1) ~ TELEC EngineeringCenter, Intertek Japan K.K., Keysight Technologies, Inc ~.
- 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	Bluetooth Tag
Brand	Blueup Srl
Test Model	BlueBeacon SafeX
Status of EUT	Engineering sample
Nominal Voltage	3Vdc from Battery
Modulation Type	GFSK
Transfer Rate	1Mbps
Operating Frequency	2402 ~ 2481MHz
Number of Channel	80
Rated RF Output Power	Refer to note
Conducted RF Output Power	Refer to note
Radiated RF Output Power	Refer to note
Antenna Type	Printed antenna with 2dBi gain
Antenna Connector	N/A
Accessory Device	N/A
Data Cable Supplied	N/A

Note:

1. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2. The power table as below:

Modulation Type	Rated power (mW)	Total Conducted RF output power (mW)	Radiated RF output power (mW)
GFSK	2	1.268	2.010

3. 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

80 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	2402	21	2422	41	2442	61	2462
2	2403	22	2423	42	2443	62	2463
3	2404	23	2424	43	2444	63	2464
4	2405	24	2425	44	2445	64	2465
5	2406	25	2426	45	2446	65	2466
6	2407	26	2427	46	2447	66	2467
7	2408	27	2428	47	2448	67	2468
8	2409	28	2429	48	2449	68	2469
9	2410	29	2430	49	2450	69	2470
10	2411	30	2431	50	2451	70	2471
11	2412	31	2432	51	2452	71	2472
12	2413	32	2433	52	2453	72	2473
13	2414	33	2434	53	2454	73	2474
14	2415	34	2435	54	2455	74	2475
15	2416	35	2436	55	2456	75	2476
16	2417	36	2437	56	2457	76	2477
17	2418	37	2438	57	2458	77	2478
18	2419	38	2439	58	2459	78	2479
19	2420	39	2440	59	2460	79	2480
20	2421	40	2441	60	2461	80	2481

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
1	0
40	0
80	0

3.3 Test Conditions

Test Conditions		Voltage (Vdc)
V_{normal}	-	3.0
$V_{max.}$	+10%	3.3 (Note)
$V_{min.}$	-10%	2.7 (Note)

Note: After checking the fluctuation of input voltage to the circuit of the radio part (excluding the power supply) of the equipment to be tested, the fluctuation less than +/- 1 % when input voltage from an external supply into the equipment fluctuates +/- 10%, therefore, the test is carried out only at the normal voltage.

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

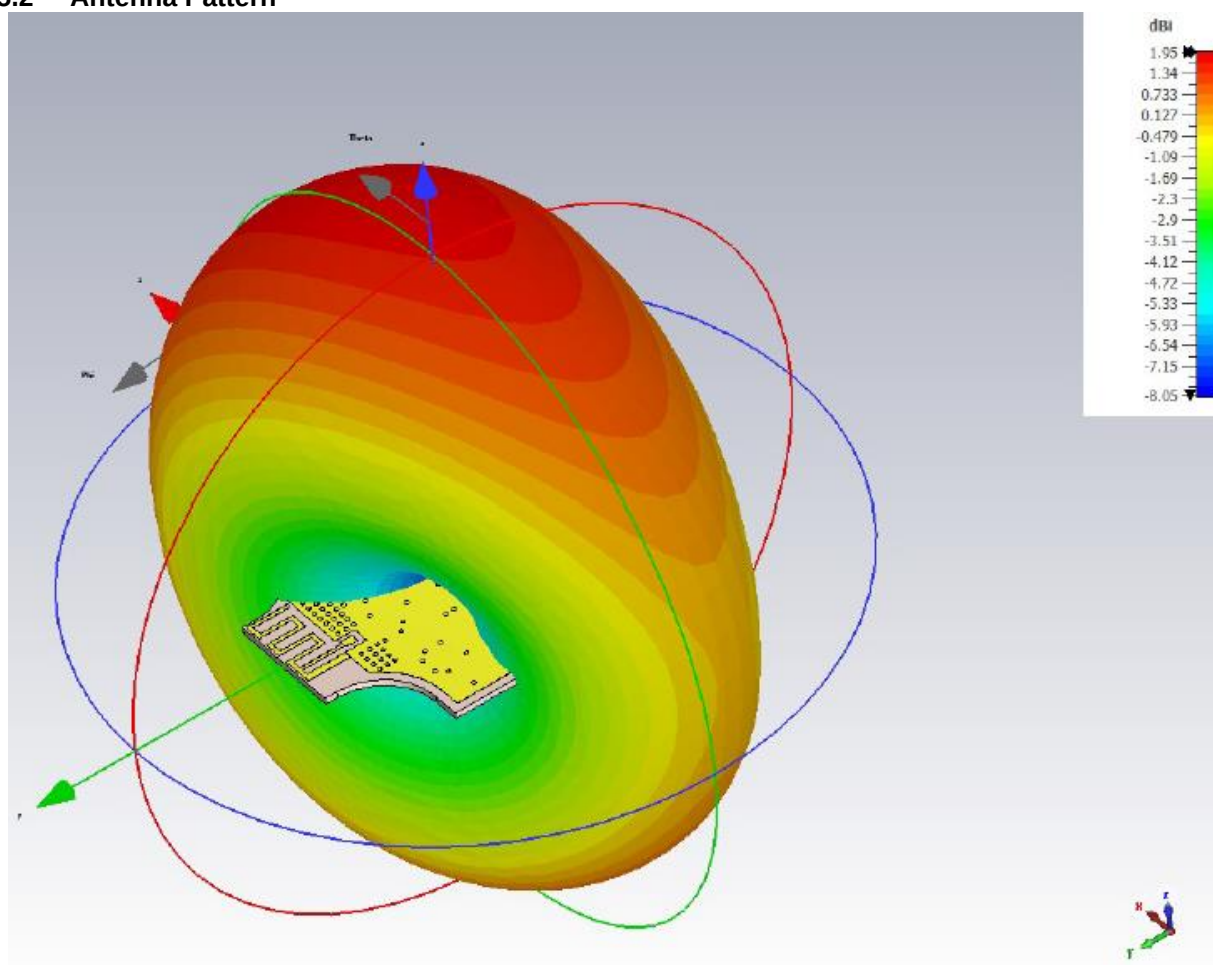
The EUT used a kind of particular screw, which could not be operated by a tool bought in the market. Only means of brute force will be able to open.

3.5 Antenna Specifications

3.5.1 Antenna Gain

Antenna Type	Max. Gain (dBi)
Printed	2

3.5.2 Antenna Pattern



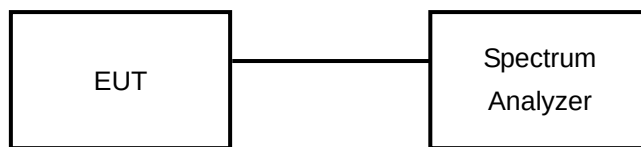
4 Test Results

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

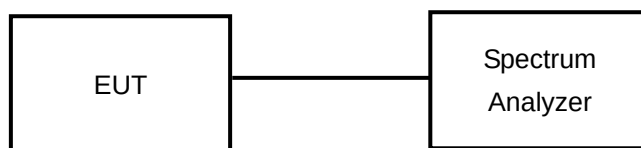
Channel	Frequency (MHz)	V_{normal}		$V_{max.}$		$V_{min.}$	
		Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)
1	2402	2402.015	6.244	2402.015	6.244	2402.015	6.244
40	2441	2441.015	6.145	2441.015	6.145	2441.015	6.145
80	2481	2481.015	6.045	2481.015	6.045	2481.015	6.045

4.2 Occupied Bandwidth Measurement (99% power bandwidth)

4.2.1 Limits of Occupied Bandwidth Measurement

Item	Limit	Remark
Occupied bandwidth	<26MHz	-

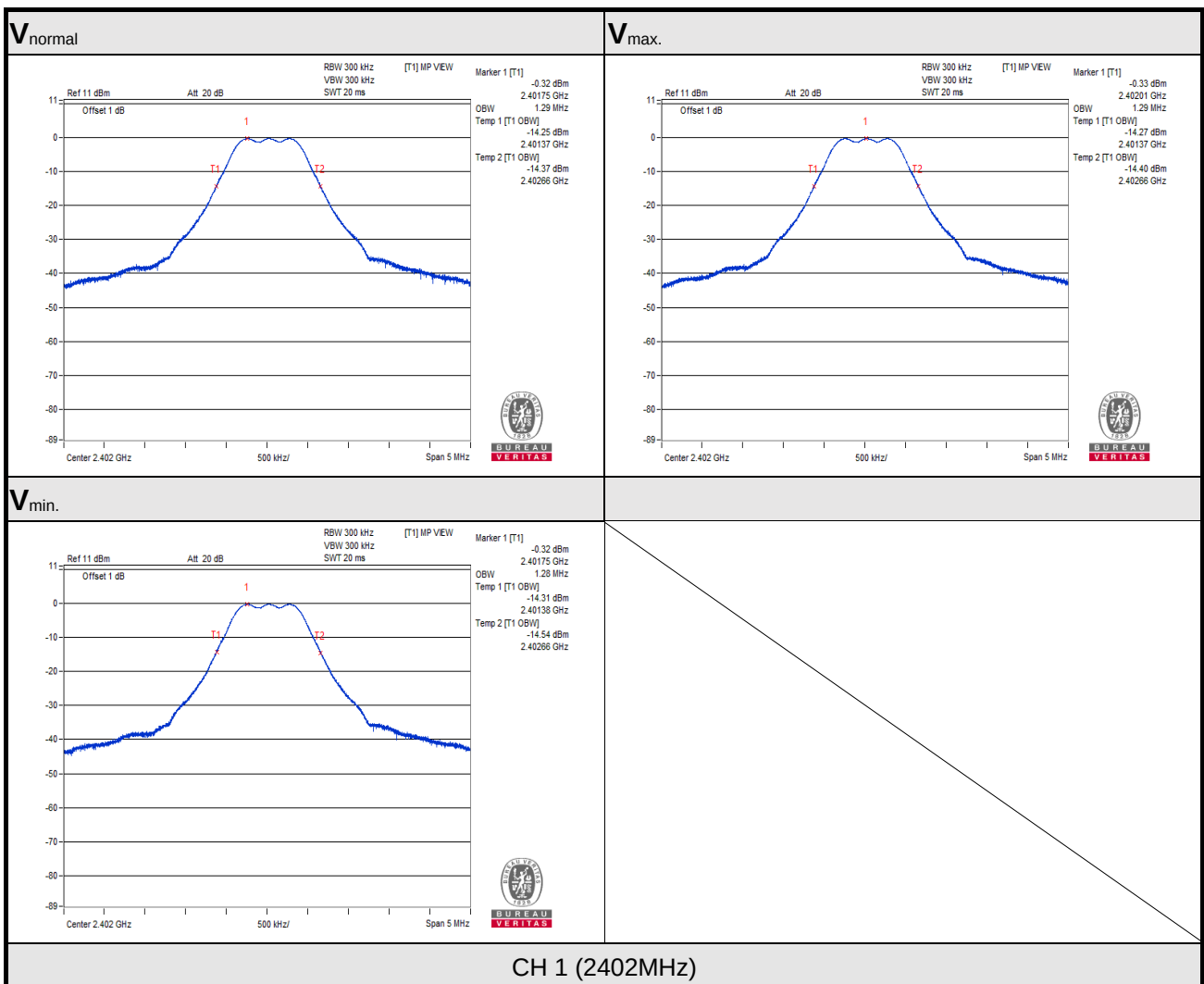
4.2.2 Test Setup

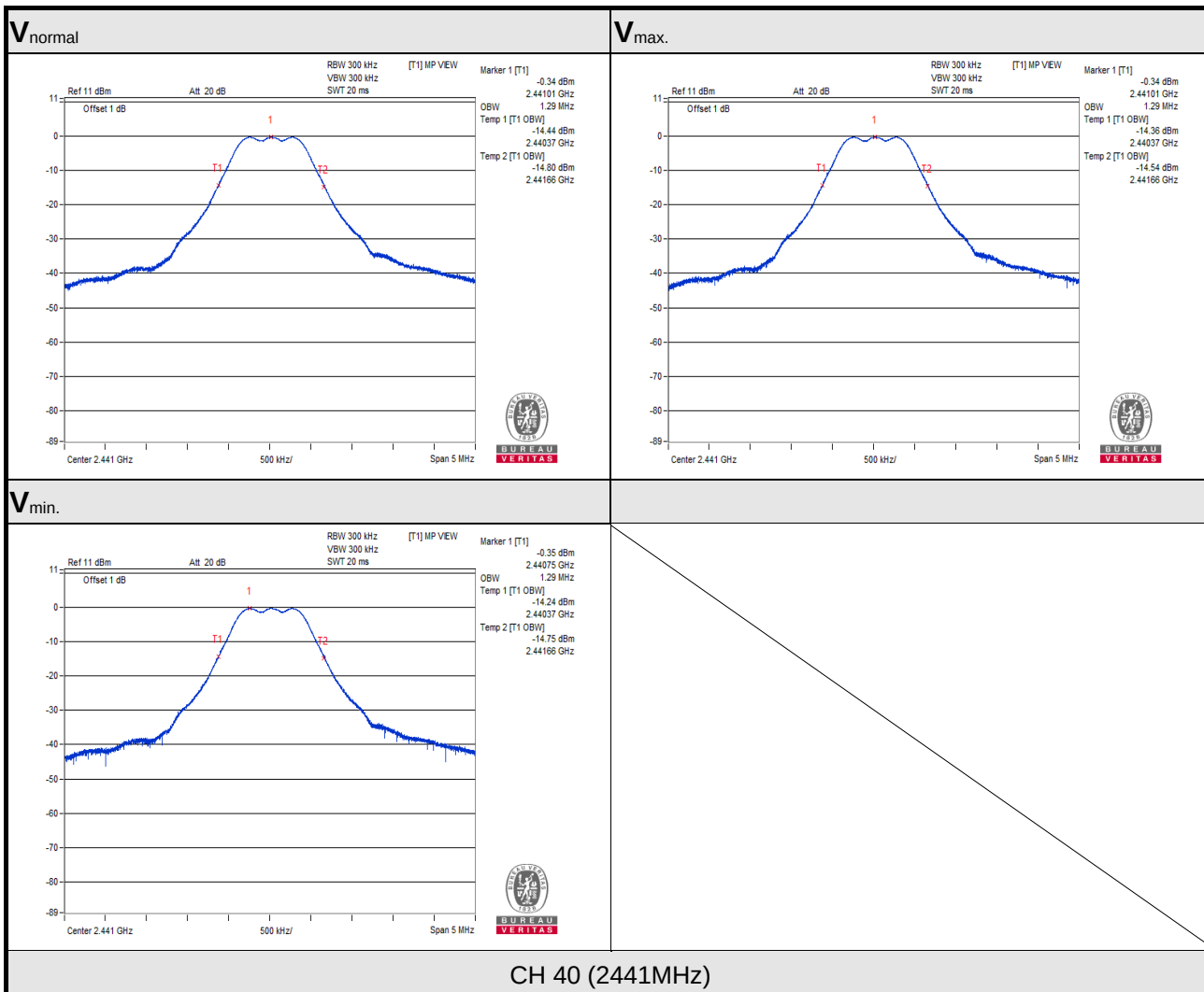


4.2.3 Test Results

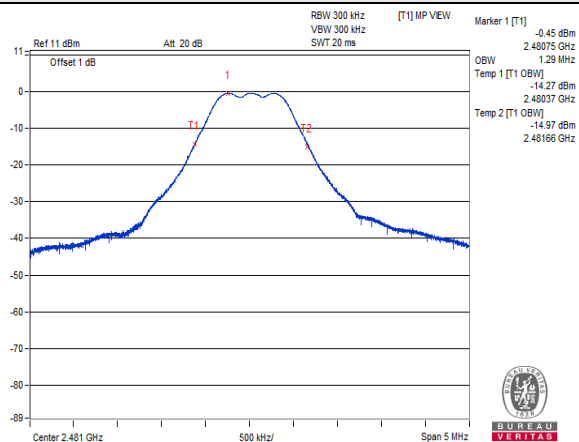
Channel	Frequency (MHz)	V_{normal}	$V_{max.}$	$V_{min.}$
		Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
1	2402	1.29	1.29	1.28
40	2441	1.29	1.29	1.29
80	2481	1.29	1.29	1.29

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

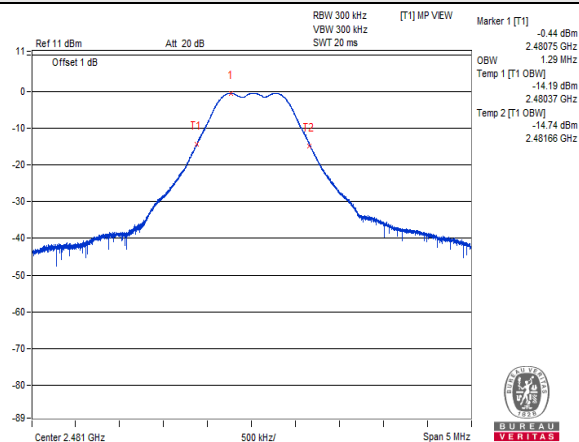




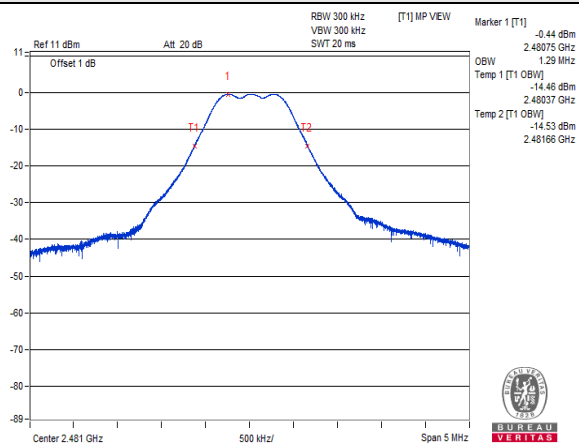
V_{normal}



V_{max.}



V_{min.}



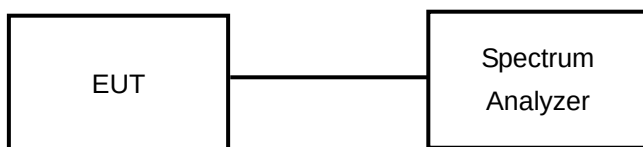
CH 80 (2481MHz)

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	$\leq 0.25 \mu\text{W}/100\text{kHz}$
1000.0MHz to 2387MHz	$\leq 2.5 \mu\text{W}/\text{MHz}$
2387.0MHz to 2400.0MHz	$\leq 25 \mu\text{W}/\text{MHz}$
2483.5MHz to 2496.5MHz	$\leq 25 \mu\text{W}/\text{MHz}$
2496.5MHz to 12500.0MHz	$\leq 2.5 \mu\text{W}/\text{MHz}$

4.3.2 Test Setup



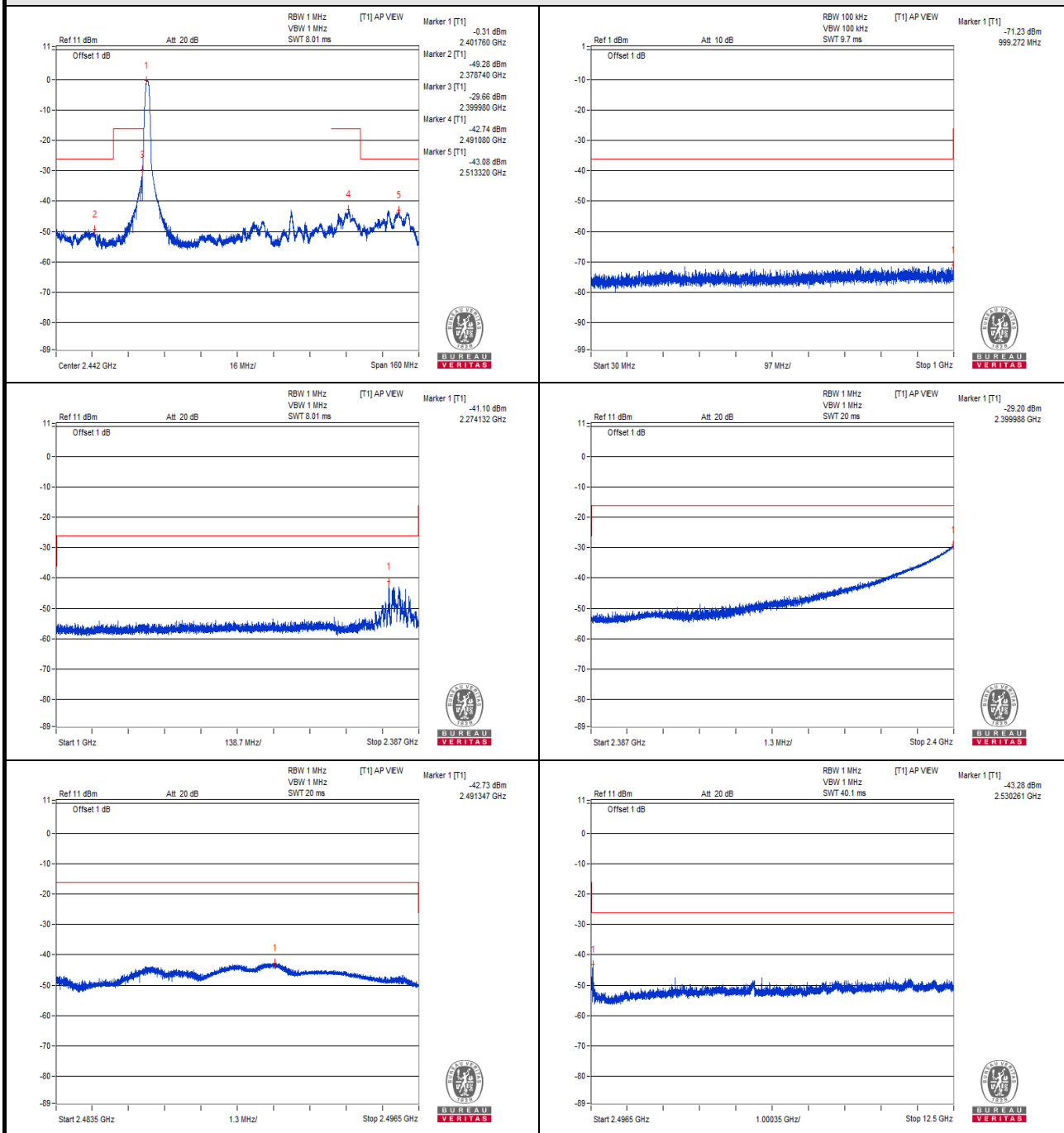
4.3.3 Test Results

TEST CHANNEL		CH 1 (2402MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30MHz to 1000MHz	999.272	0.000075	0.25	PASS
	1000MHz to 2387MHz	2274.132	0.077625	2.5	PASS
	2387MHz to 2400MHz	2399.988	1.202264	25	PASS
	2483.5MHz to 2496.5MHz	2491.347	0.053333	25	PASS
	2496.5MHz to 12500MHz	2530.261	0.046989	2.5	PASS
V_{max.}	30MHz to 1000MHz	856.318	0.000086	0.25	PASS
	1000MHz to 2387MHz	2273.786	0.102565	2.5	PASS
	2387MHz to 2400MHz	2399.988	1.142878	25	PASS
	2483.5MHz to 2496.5MHz	2491.249	0.055081	25	PASS
	2496.5MHz to 12500MHz	2529.011	0.073114	2.5	PASS
V_{min.}	30MHz to 1000MHz	951.742	0.000102	0.25	PASS
	1000MHz to 2387MHz	2274.132	0.093972	2.5	PASS
	2387MHz to 2400MHz	2399.998	1.140250	25	PASS
	2483.5MHz to 2496.5MHz	2491.176	0.055463	25	PASS
	2496.5MHz to 12500MHz	2529.011	0.050350	2.5	PASS
TEST CHANNEL		CH 40 (2441MHz)			
V_{normal}	30MHz to 1000MHz	731.188	0.000080	0.25	PASS
	1000MHz to 2387MHz	2312.795	0.091201	2.5	PASS
	2387MHz to 2400MHz	2390.146	0.028774	25	PASS
	2483.5MHz to 2496.5MHz	2492.065	0.026122	25	PASS
	2496.5MHz to 12500MHz	2569.025	0.059841	2.5	PASS
V_{max.}	30MHz to 1000MHz	754.226	0.000078	0.25	PASS
	1000MHz to 2387MHz	2312.968	0.088512	2.5	PASS
	2387MHz to 2400MHz	2393.391	0.033729	25	PASS
	2483.5MHz to 2496.5MHz	2492.151	0.025061	25	PASS
	2496.5MHz to 12500MHz	2567.774	0.040926	2.5	PASS
V_{min.}	30MHz to 1000MHz	905.061	0.000075	0.25	PASS
	1000MHz to 2387MHz	2312.968	0.096605	2.5	PASS
	2387MHz to 2400MHz	2393.269	0.028119	25	PASS
	2483.5MHz to 2496.5MHz	2492.343	0.026977	25	PASS
	2496.5MHz to 12500MHz	2567.774	0.041115	2.5	PASS

TEST CHANNEL		CH 80 (2481MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30MHz to 1000MHz	867.837	0.000080	0.25	PASS
	1000MHz to 2387MHz	2352.845	0.087297	2.5	PASS
	2387MHz to 2400MHz	2391.340	0.060256	25	PASS
	2483.5MHz to 2496.5MHz	2483.508	0.857038	25	PASS
	2496.5MHz to 12500MHz	2609.039	0.060395	2.5	PASS
V_{max.}	30MHz to 1000MHz	321.000	0.000075	0.25	PASS
	1000MHz to 2387MHz	2353.712	0.064417	2.5	PASS
	2387MHz to 2400MHz	2391.424	0.058614	25	PASS
	2483.5MHz to 2496.5MHz	2483.517	0.845279	25	PASS
	2496.5MHz to 12500MHz	2607.788	0.037497	2.5	PASS
V_{min.}	30MHz to 1000MHz	823.338	0.000091	0.25	PASS
	1000MHz to 2387MHz	2352.845	0.095940	2.5	PASS
	2387MHz to 2400MHz	2391.641	0.059429	25	PASS
	2483.5MHz to 2496.5MHz	2483.503	0.862979	25	PASS
	2496.5MHz to 12500MHz	2609.039	0.039719	2.5	PASS

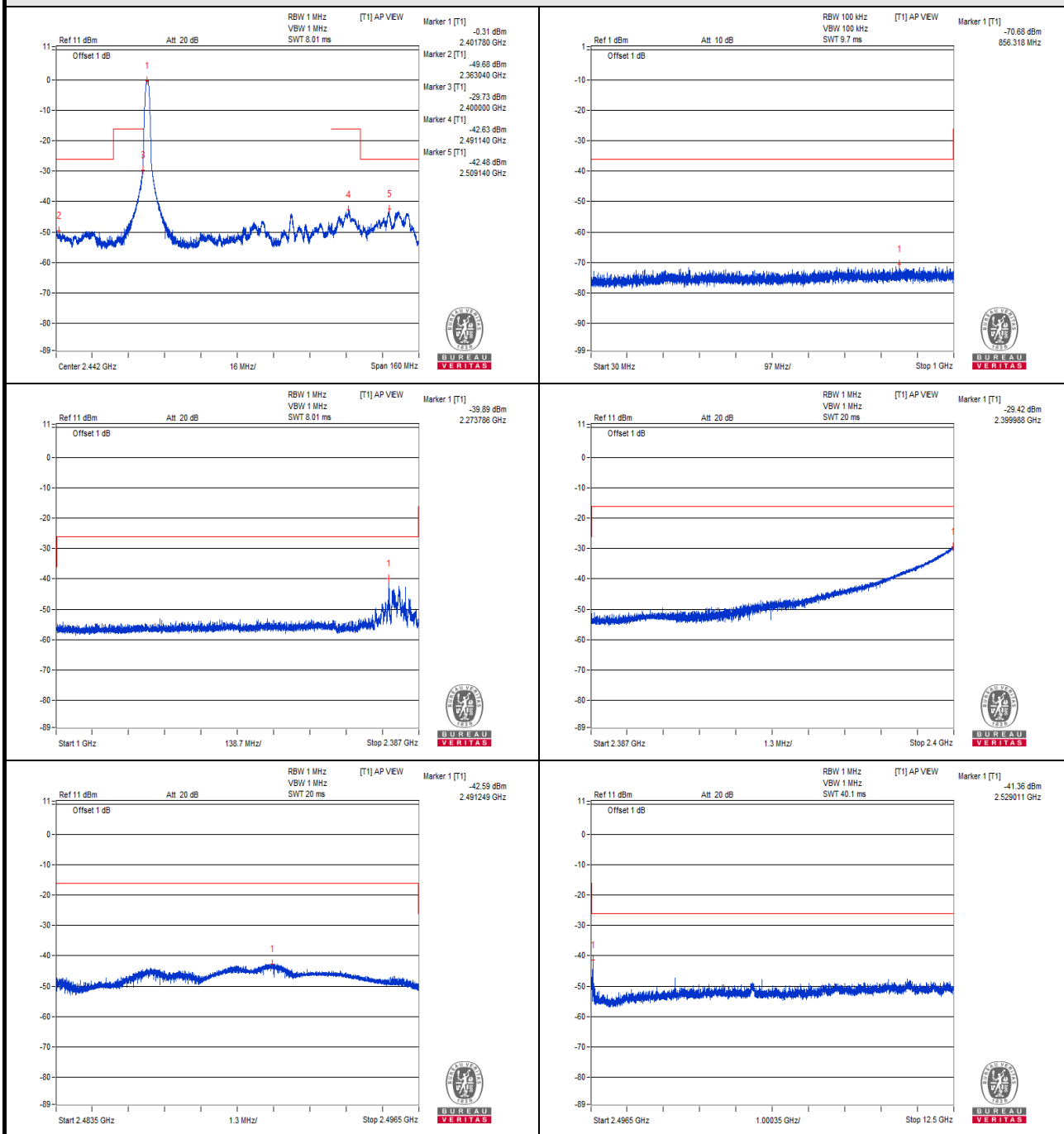
NOTE: 1. The spectrum plots are attached on the following pages.

Vnormal



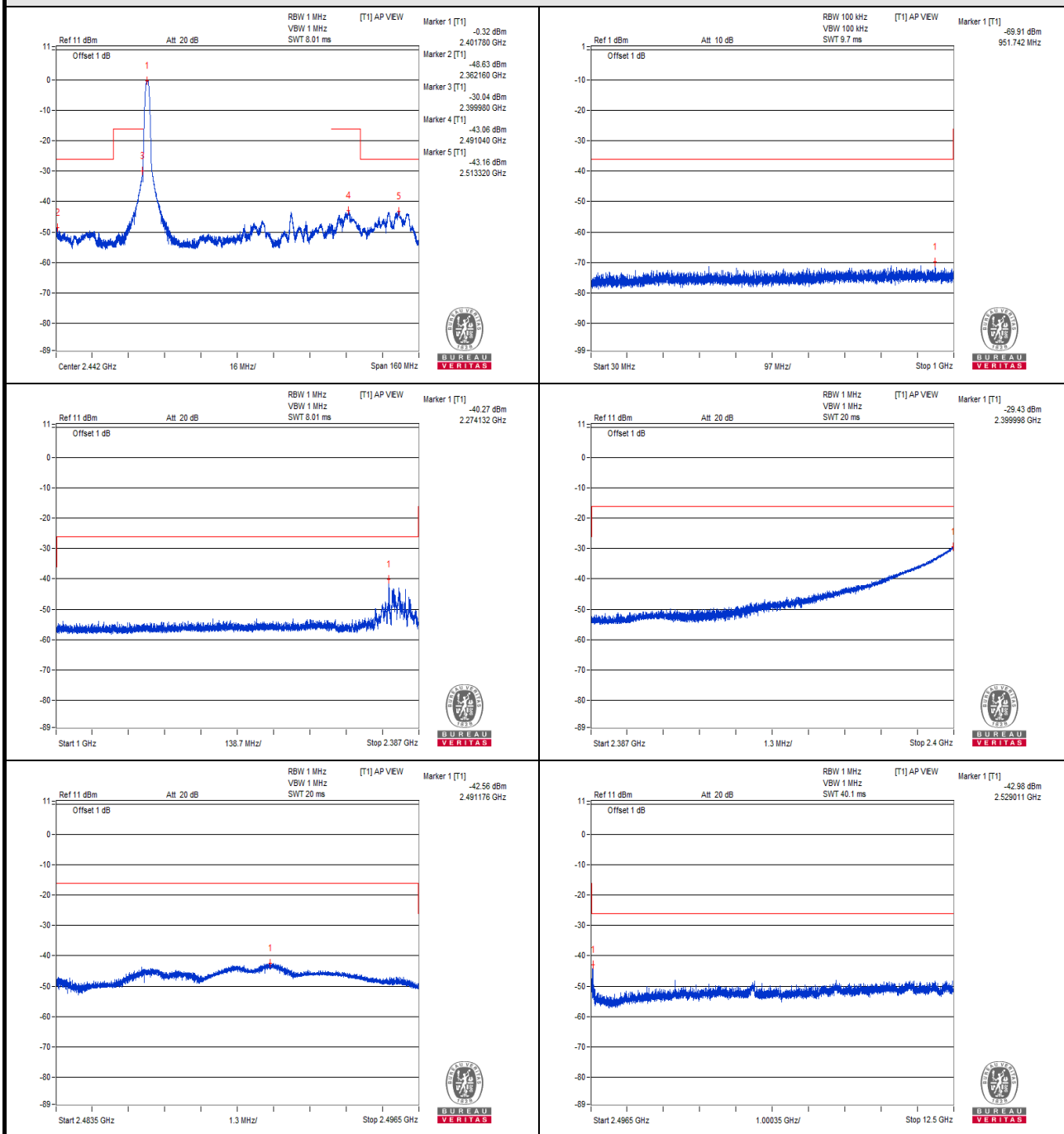
CH 1 (2402MHz)

V_{max}.



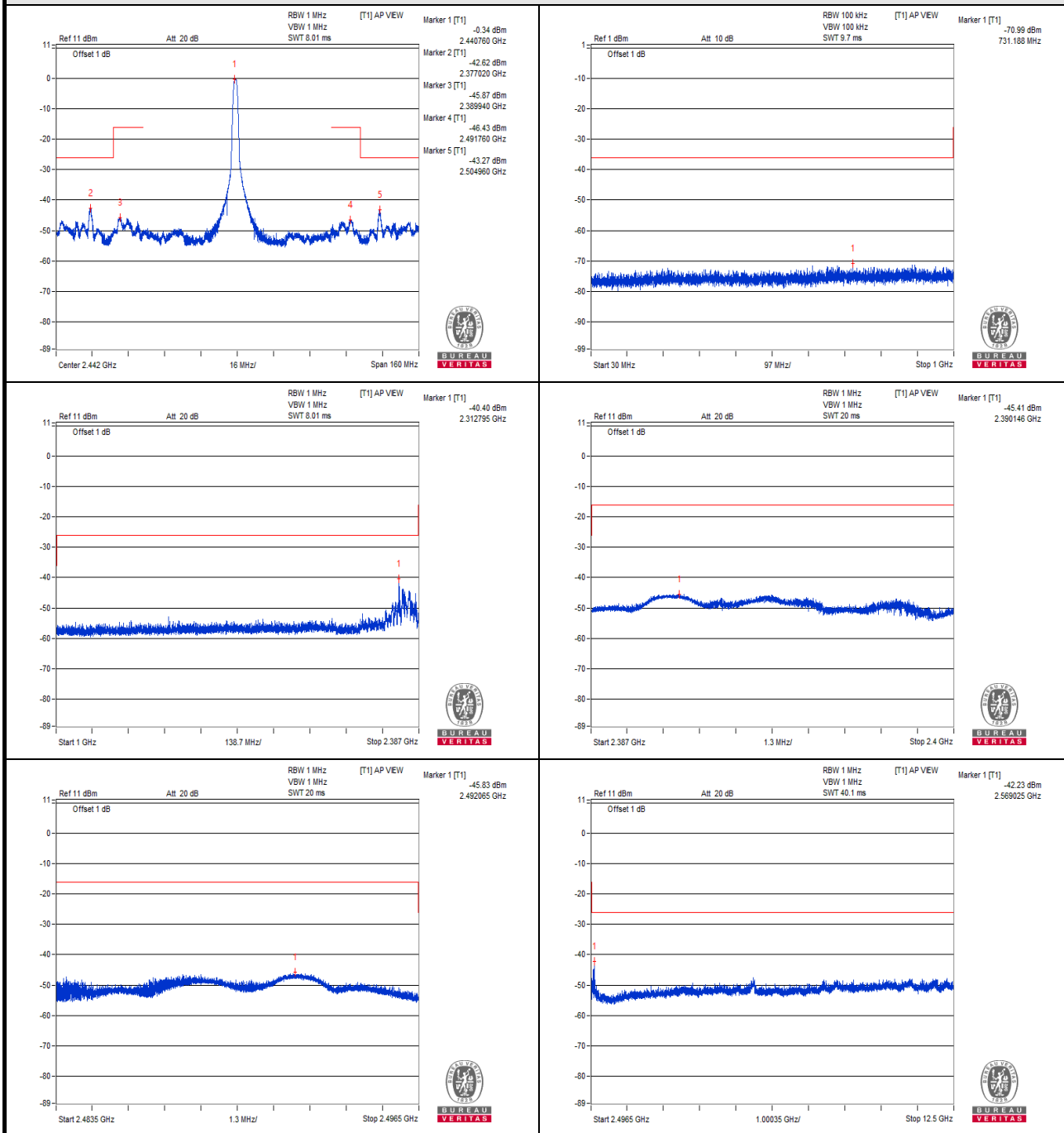
CH 1 (2402MHz)

V_{min}.



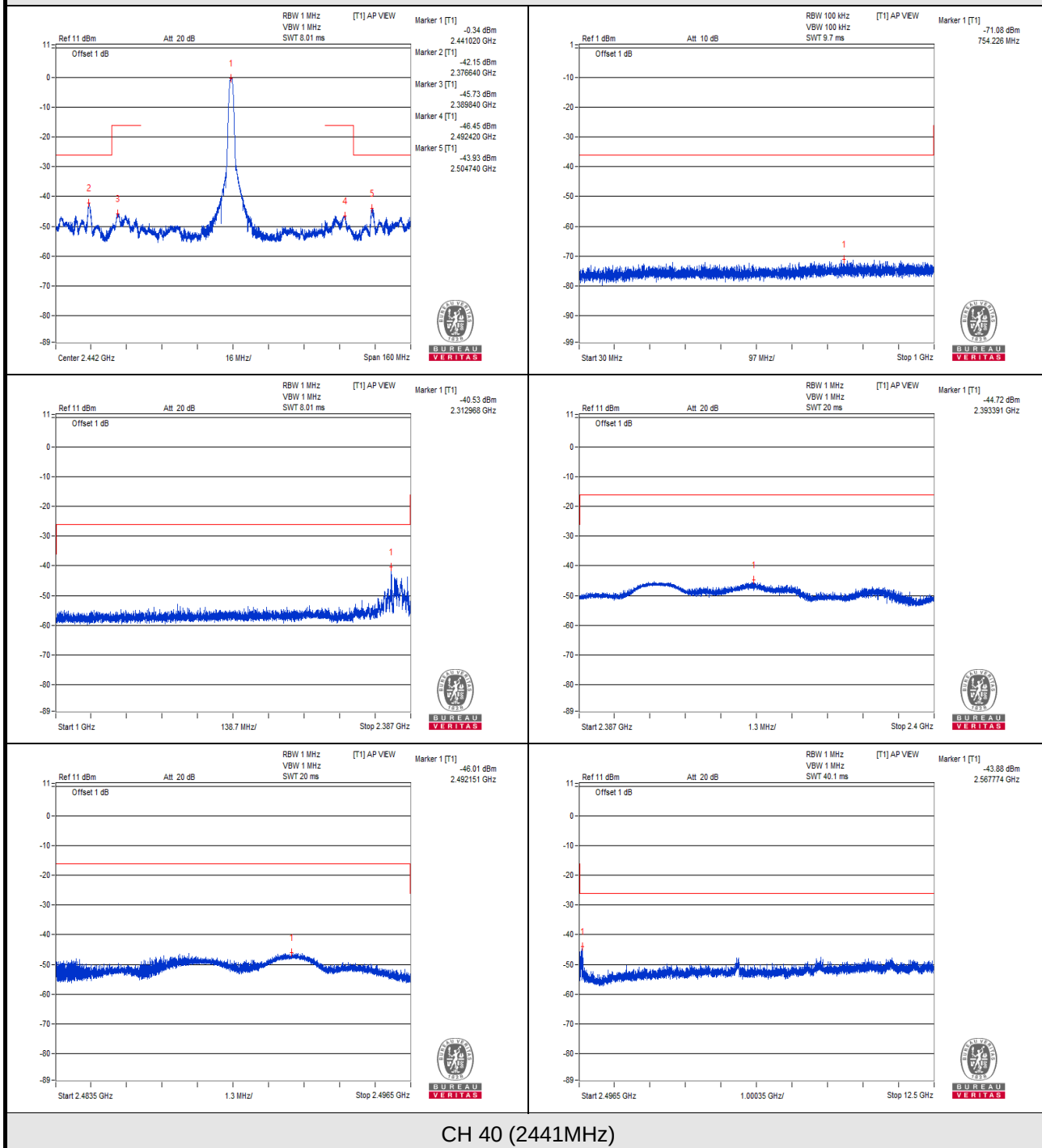
CH 1 (2402MHz)

Vnormal

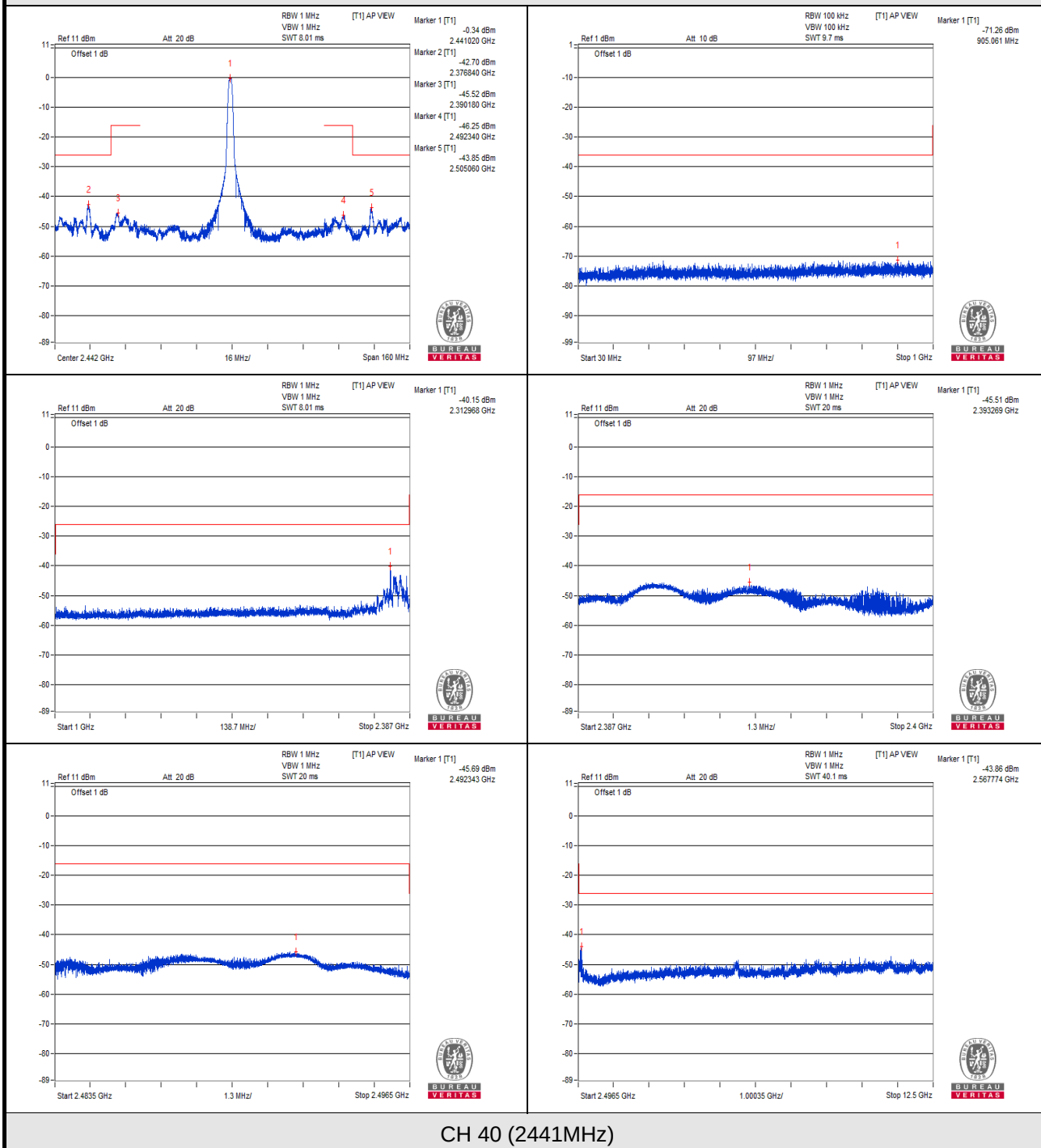


CH 40 (2441MHz)

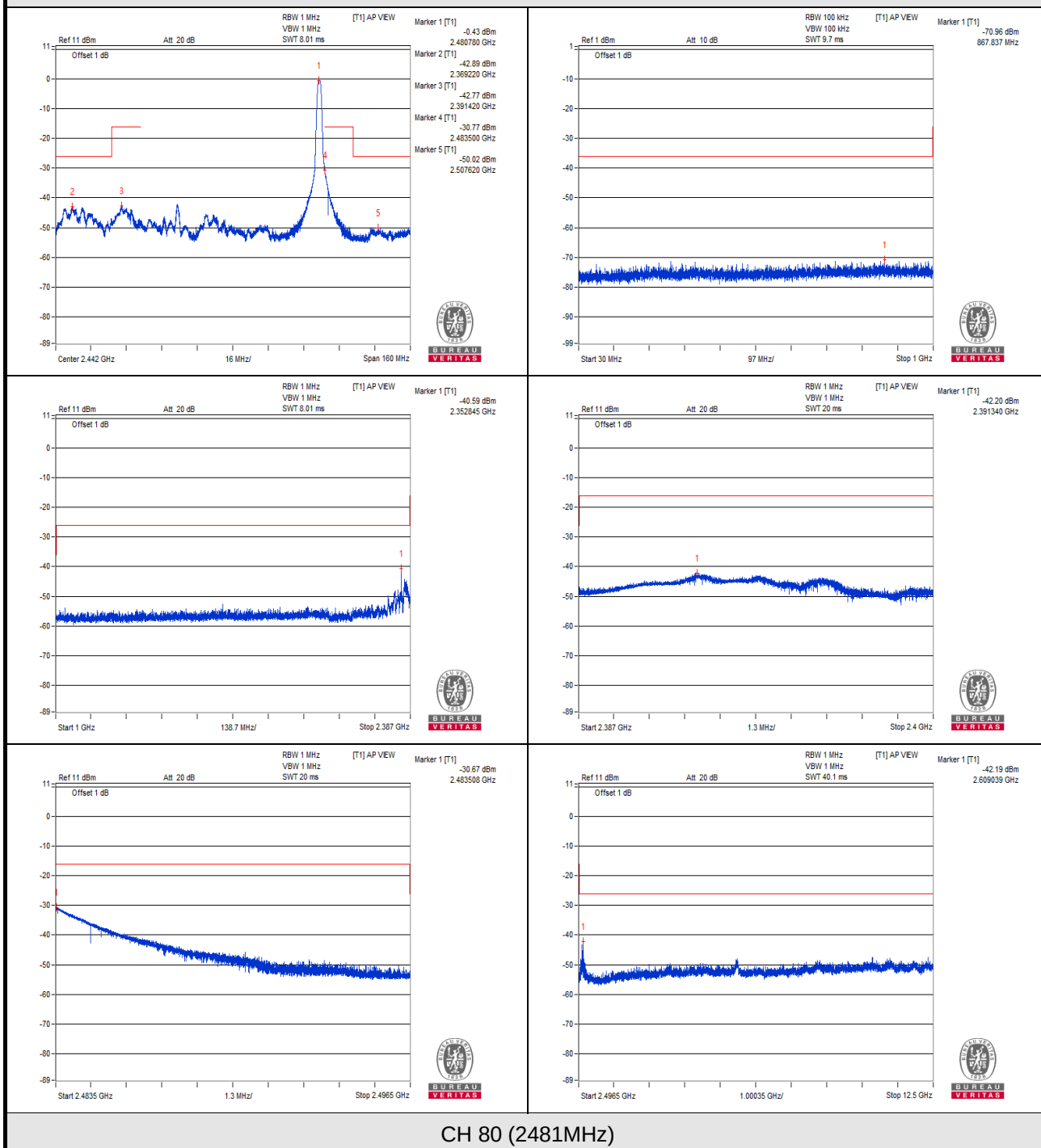
Vmax.



V_{min}.

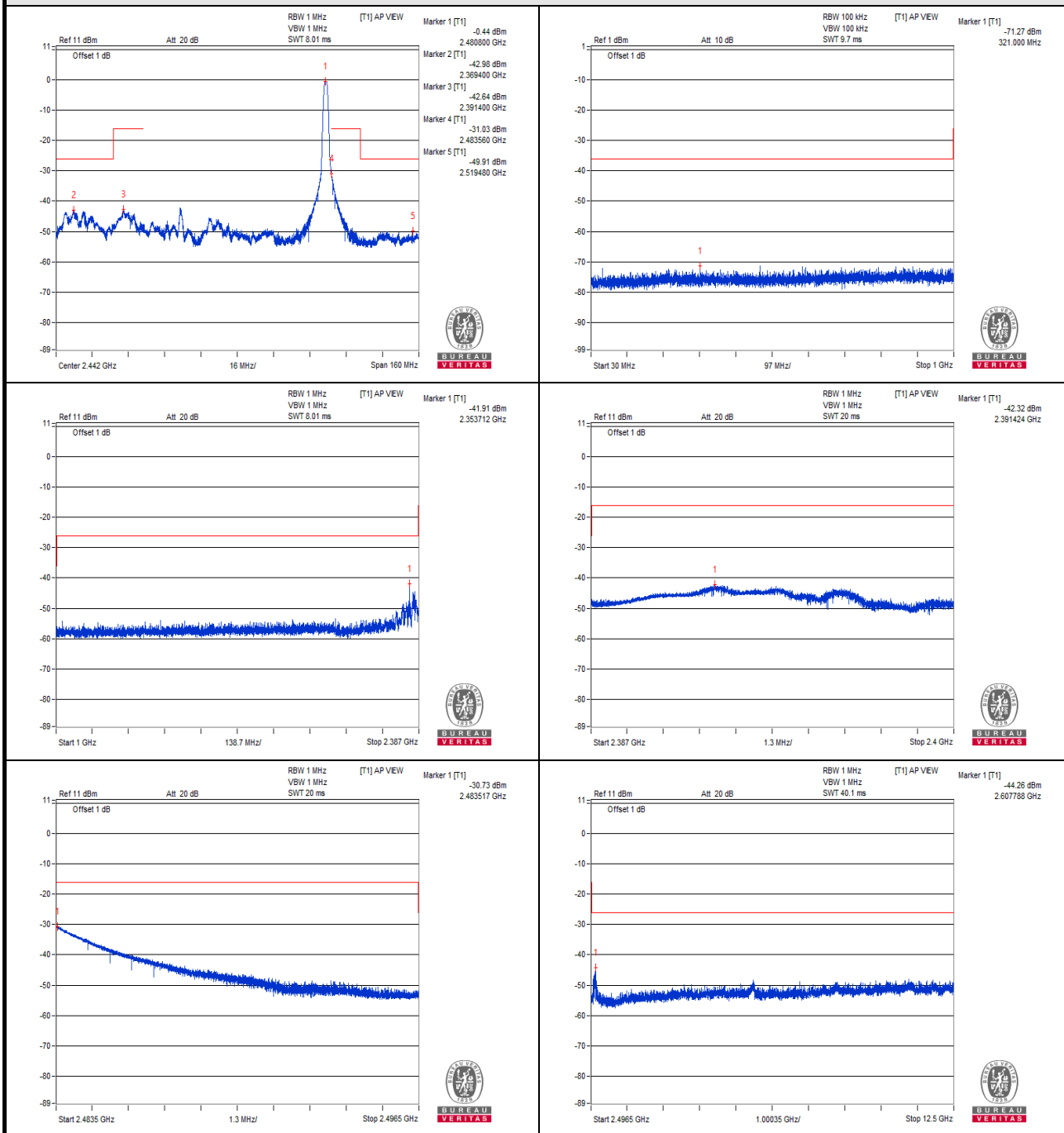


Vnormal



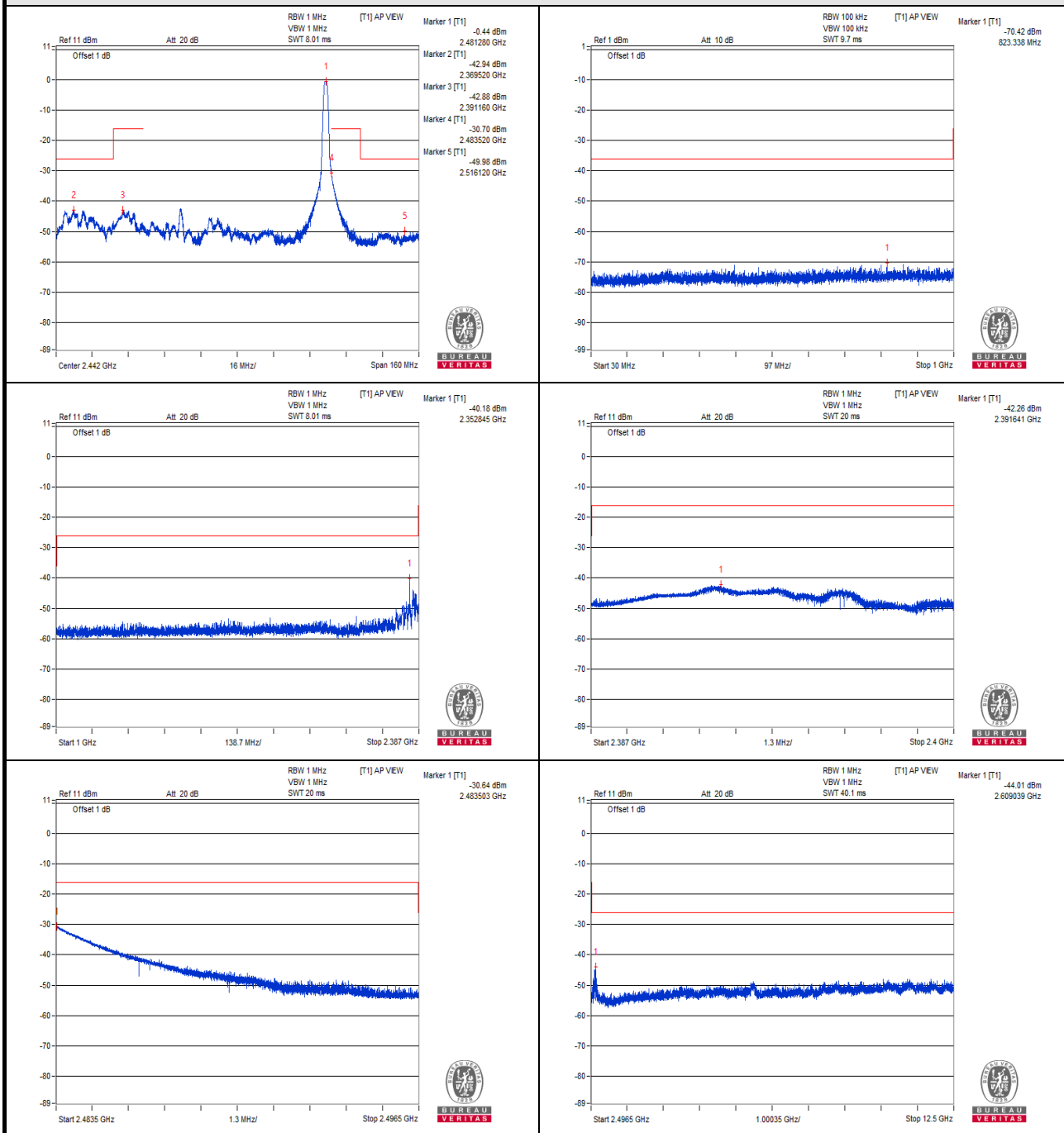
CH 80 (2481MHz)

V_{max}.



CH 80 (2481MHz)

V_{min}.



CH 80 (2481MHz)

4.4 Antenna Power Measurement

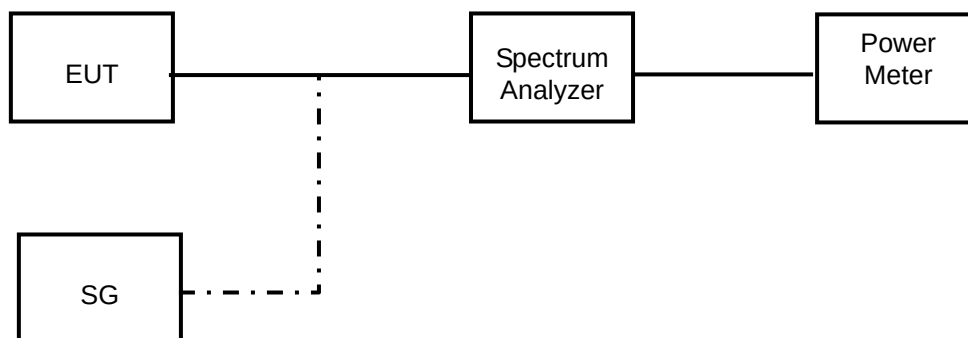
4.4.1 Limits of Antenna Power

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 38MHz
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)
V_{normal}	1	2402	1.230	1.949
	40	2441	1.189	1.884
	80	2481	1.140	1.807
V_{max.}	1	2402	1.213	1.922
	40	2441	1.161	1.840
	80	2481	1.089	1.726
V_{min.}	1	2402	1.268	2.010
	40	2441	1.159	1.837
	80	2481	1.102	1.747
Max. Limit (mW):			10	-
Rated Power (mW):			2	-
Tolerance of Antenna Power (mW):			0.4 ~ 2.4	-
Max. EIRP Limit (mW):			-	16.368

Note: 1. Antenna gain is 2 dBi.

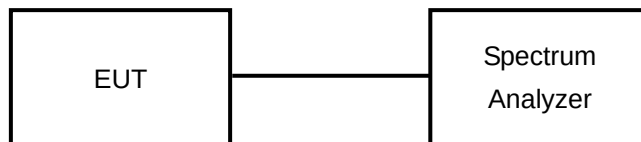
2. The radiated RF output power density is a “calculated” value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power + Antenna gain

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)

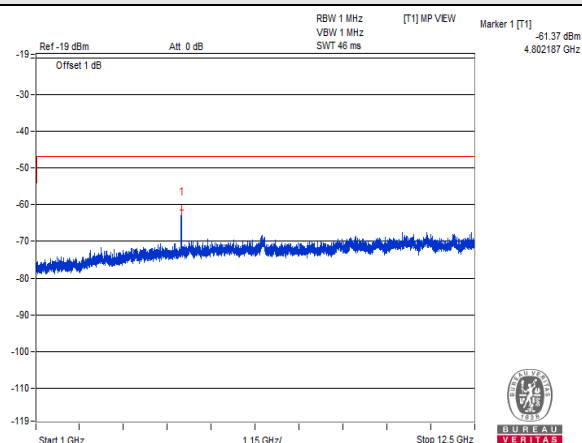
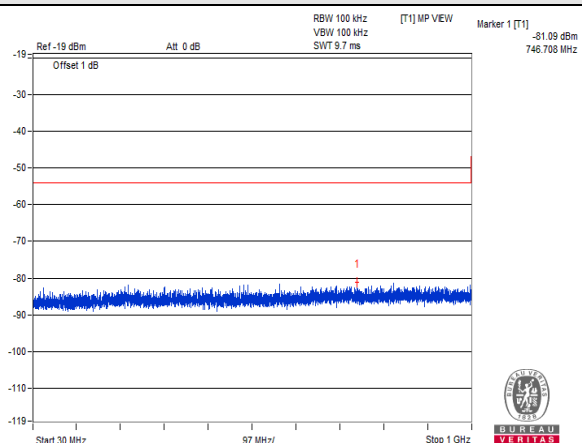
4.5.2 Test Setup



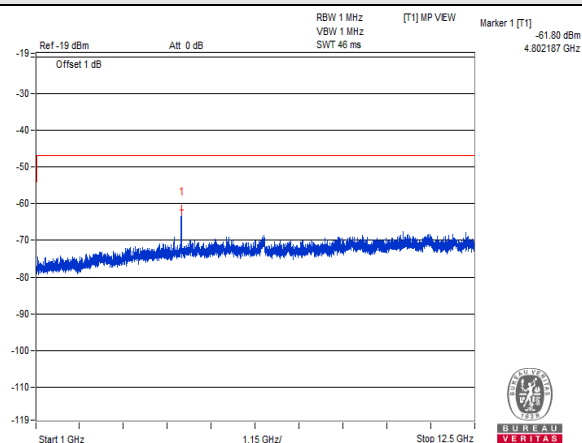
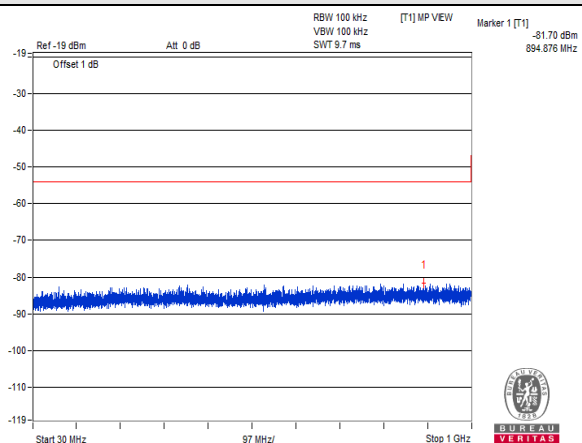
4.5.3 Test Result

TEST CHANNEL		CH 1 (2402MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30MHz to 1000MHz	746.708	0.007780	4.0	PASS
	1000MHz to 12500MHz	4802.187	0.729458	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	894.876	0.006761	4.0	PASS
	1000MHz to 12500MHz	4802.187	0.660693	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	862.017	0.007798	4.0	PASS
	1000MHz to 12500MHz	4802.187	0.583445	20.0	PASS
TEST CHANNEL		CH 40 (2441MHz)			
V_{normal}	30MHz to 1000MHz	746.708	0.008670	4.0	PASS
	1000MHz to 12500MHz	4879.812	0.519996	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	876.688	0.006683	4.0	PASS
	1000MHz to 12500MHz	4879.812	0.549541	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	881.660	0.007328	4.0	PASS
	1000MHz to 12500MHz	4879.812	0.489779	20.0	PASS
TEST CHANNEL		CH 80 (2481MHz)			
V_{normal}	30MHz to 1000MHz	920.460	0.006471	4.0	PASS
	1000MHz to 12500MHz	4960.312	0.566239	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	701.240	0.007129	4.0	PASS
	1000MHz to 12500MHz	4960.312	0.616595	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	746.951	0.008091	4.0	PASS
	1000MHz to 12500MHz	4960.312	0.576766	20.0	PASS

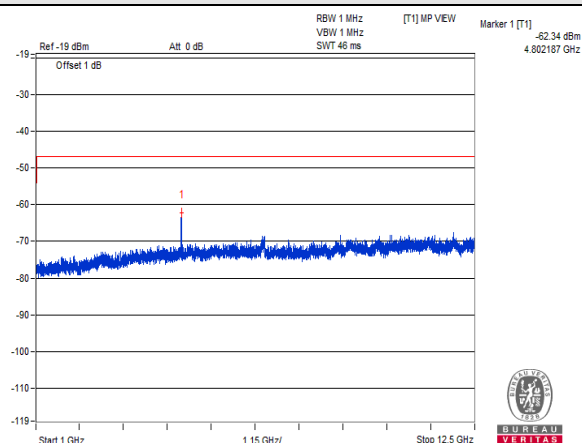
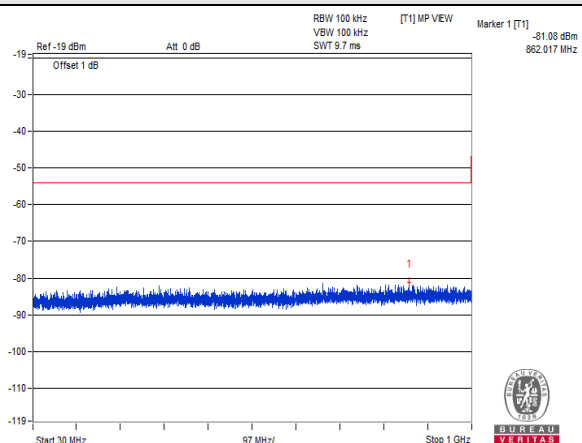
V_{normal}



V_{max.}

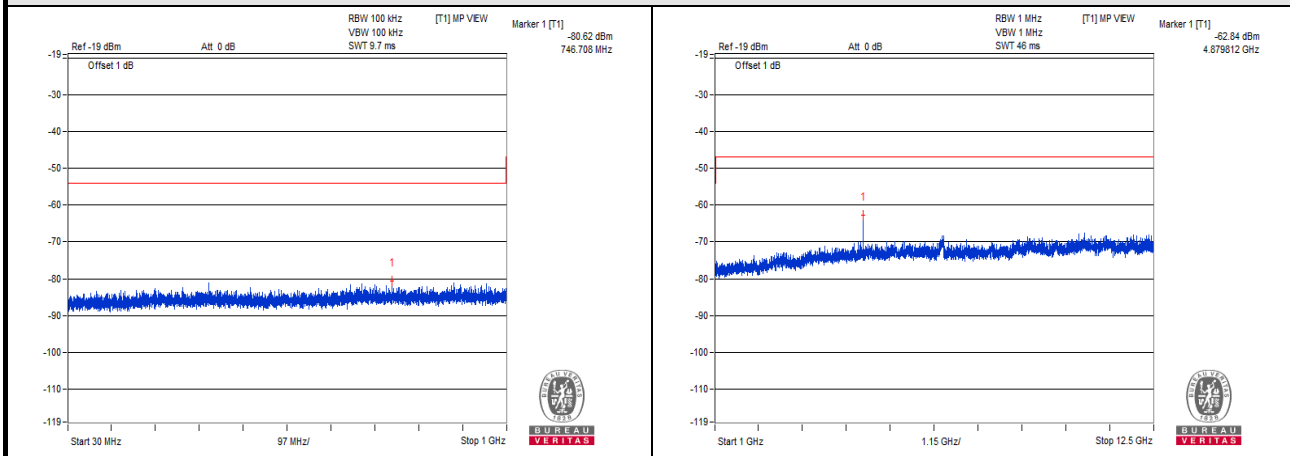


V_{min.}

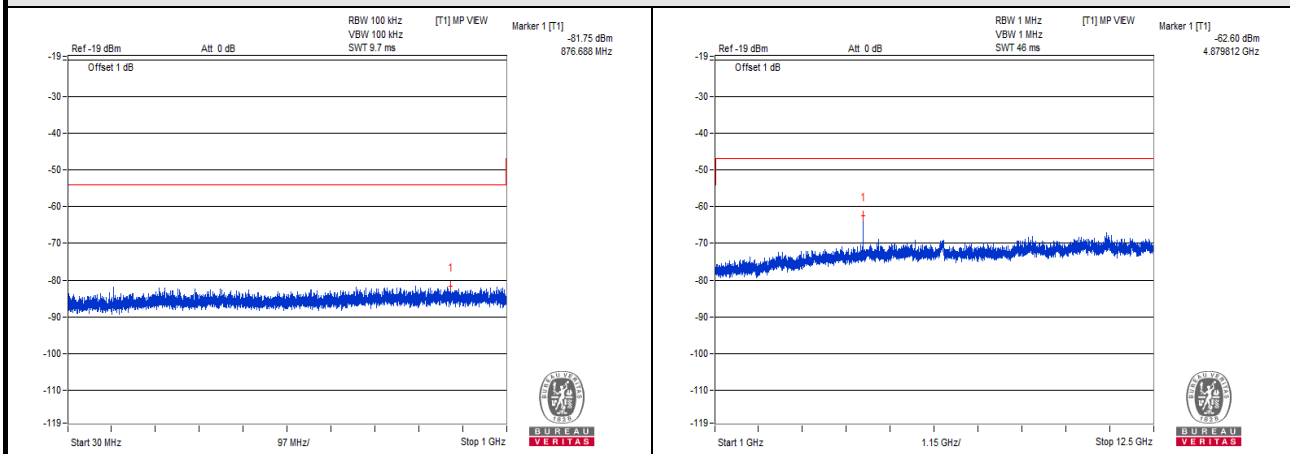


CH 1 (2402MHz)

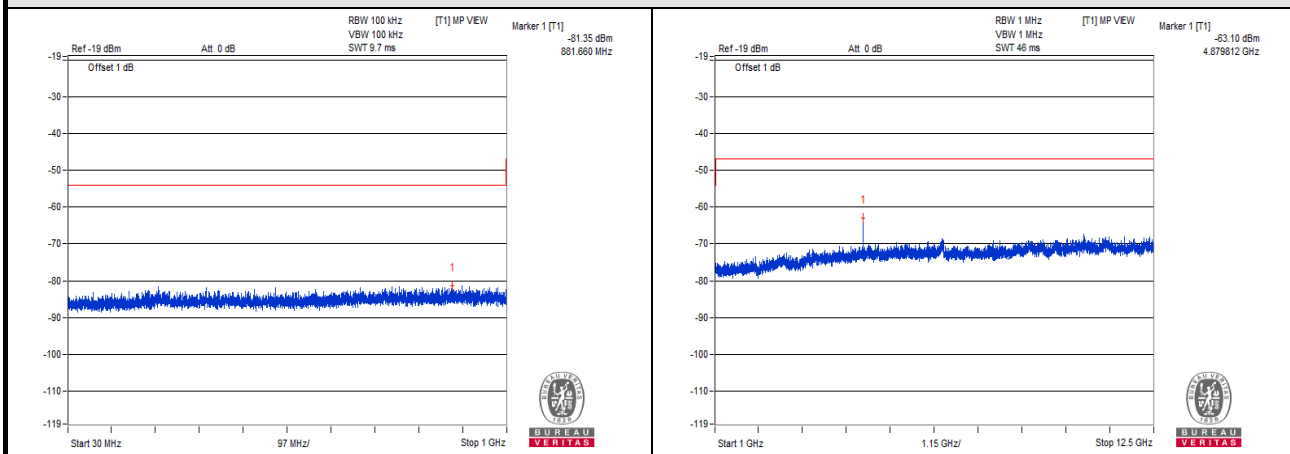
V_{normal}



V_{max.}

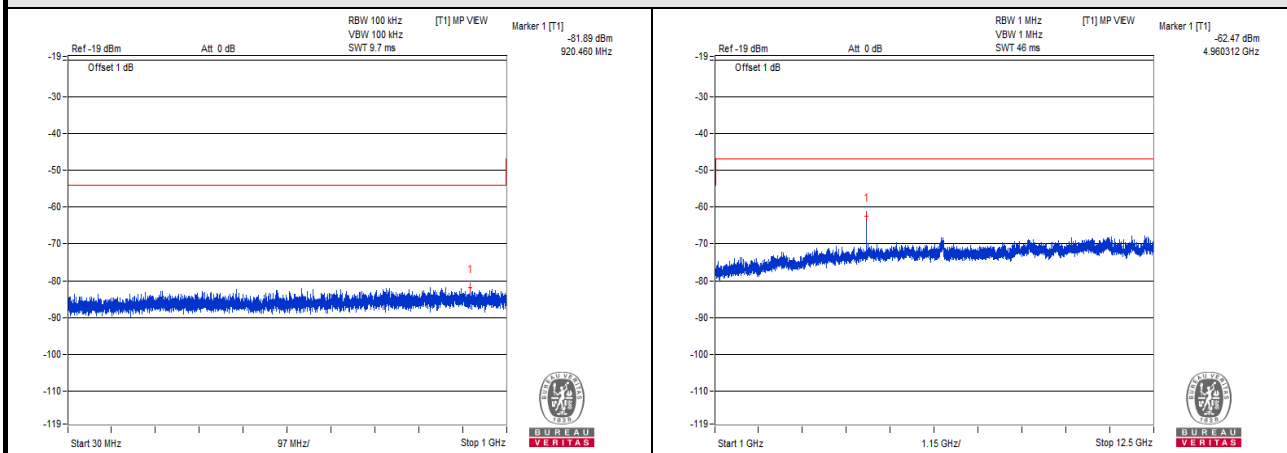


V_{min.}

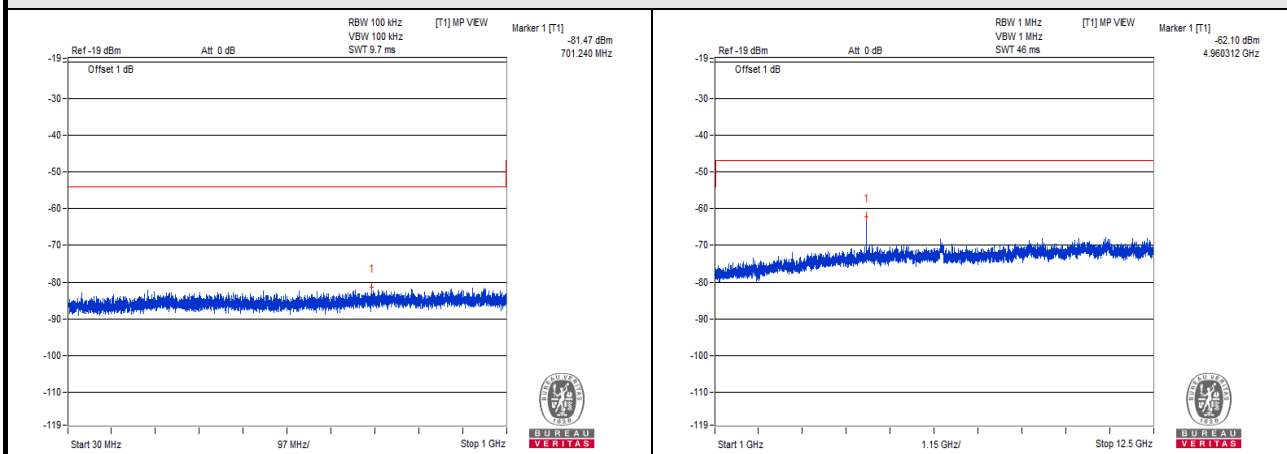


CH 40 (2441MHz)

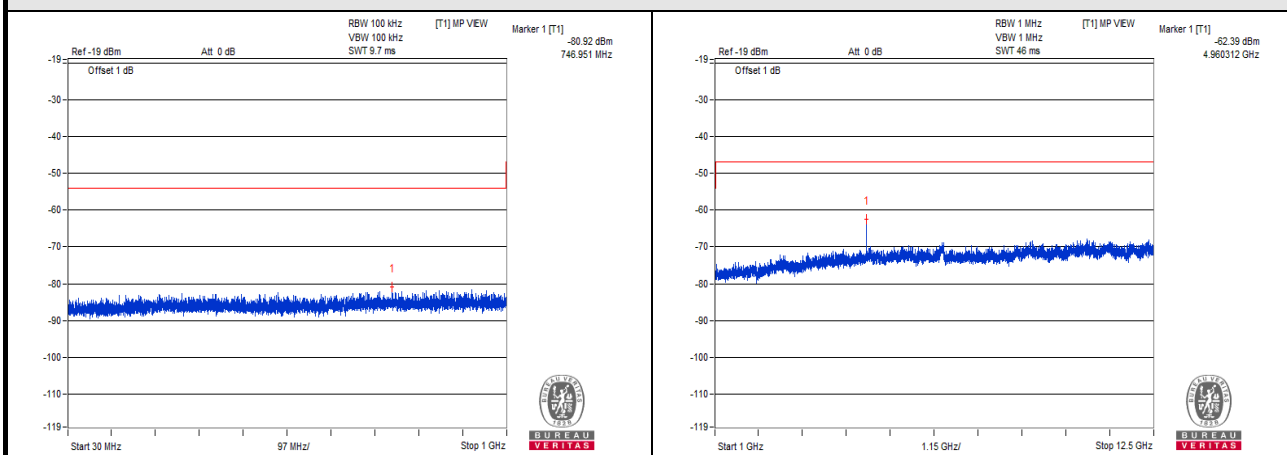
V_{normal}



V_{max.}



V_{min.}



CH 80 (2481MHz)

4.6 Interference Prevention Function

4.6.1 Limits of Interference Prevention Function

NA

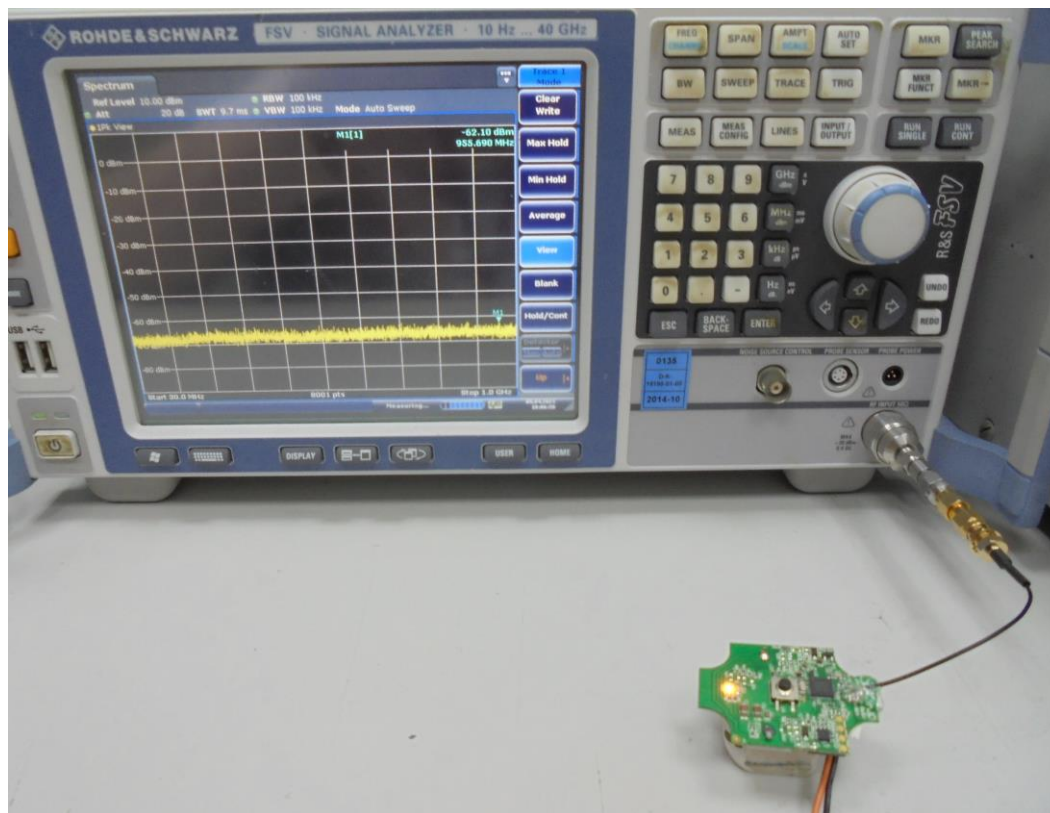
4.6.2 Test Setup



4.6.3 Test Results

Link Mode	Test Result
Normal	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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