

Radio Test Report

Report No.: RJBKX-WTW-P21080422

Test Model: AW720M

Received Date: 2021/8/23

Test Date: 2021/9/7

Issued Date: 2021/9/23

Applicant: PRIMAX ELECTRONICS LTD.

Address: No. 669, Ruey Kuang Road, Neihu, Taipei, Taiwan, R.O.C.

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
RJBDKX-WTW-P21080422	Original release.	2021/9/23

1 Certificate of Conformity

Product: Mouse

Brand: ALIENWARE

Test Model: AW720M

Sample Status: Engineering sample

Applicant: PRIMAX ELECTRONICS LTD.

Test Date: 2021/9/7

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:

2021/9/23

Annie Chang / Senior Specialist

Approved by :

Rex Lai

Date:

2021/9/23

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)	4.4	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)	3.4	High Frequency/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	NA
--	3.2 (2)	4.4	Antenna power	C
--	3.6 (2)	4.4	Absolute gain of transmitting antenna	C
--	3.6 (2)	4.4	Angular width of principal radiation (AWPR)	NA
--	3.2 (10)	--	Number of carriers within 1 MHz bandwidth in OFDM	NA
--	3.2 (8)	--	Diffusion 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 Powermeasurement Test set (4X4) KEYSIGHT	U2021XA	U2021XA_001	2021/6/16	2022/6/15	ETC	c)
Spectrum Analyzer R&S	FSV40	101042	2020/9/8	2021/9/7	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)
Agilent Mobile Comm Dual ps w/Battery Emulation	66319D	MY43005576	2020/10/19	2021/10/18	Agilent	c)
Fluke True RMS Clamp Meter	325	31130711WS	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) ~ 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	Mouse
Brand	ALIENWARE
Test Model	AW720M
Status of EUT	Engineering sample
Nominal Voltage	5Vdc from host equipment or 3.7Vdc from battery
Modulation Type	GFSK
Operating Frequency	2402MHz ~ 2479MHz
Number of Channel	78
Rated RF Output Power	4mW
Conducted RF Output Power	3.214mW
Radiated RF Output Power	3.829mW
Antenna Type	PCB antenna with 0.76 dBi gain
Antenna Connector	N/A
Accessory Device	USB adapter, Connector
Data Cable Supplied	Shielded USB cable (2.0m)

Note:

1. The EUT uses following rechargeable battery.

Manufacturer	Hangzhou Future Power Technology Co., Ltd
Model	FT382944P
Rating	3.7Vdc

2. 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

78 channels are provided to this EUT:

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		
19	2421	39	2441	59	2461		

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

Channel	Power setting
0	0
39	0
77	0

3.3 Test Conditions

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

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

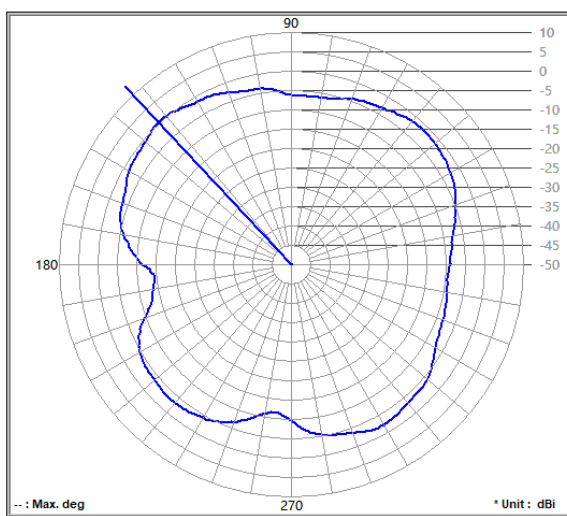
The EUT used a kind of particular screw, which could not operated by a tool bought in the market. Only means of brute force will be able to opened.

3.5 Antenna Specifications

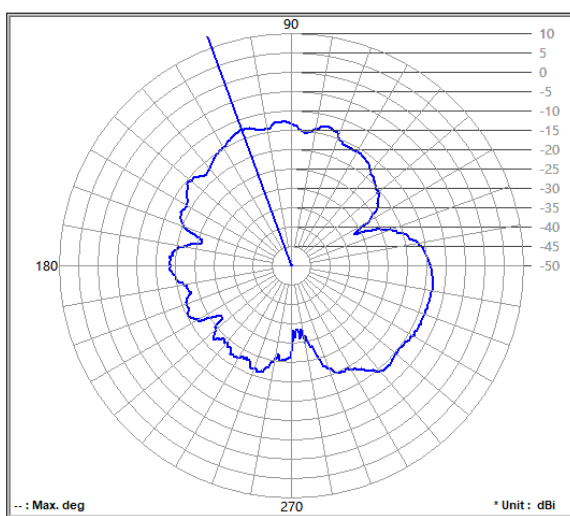
3.5.1 Antenna Gain

Antenna Type	Max. Gain (dBi)
PCB antenna	0.76

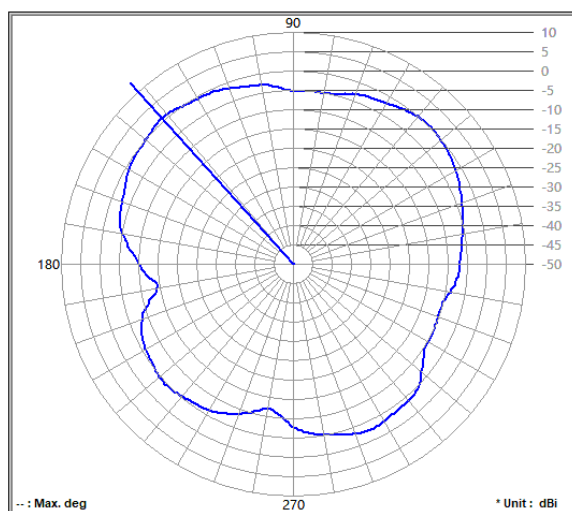
3.5.2 Antenna Pattern



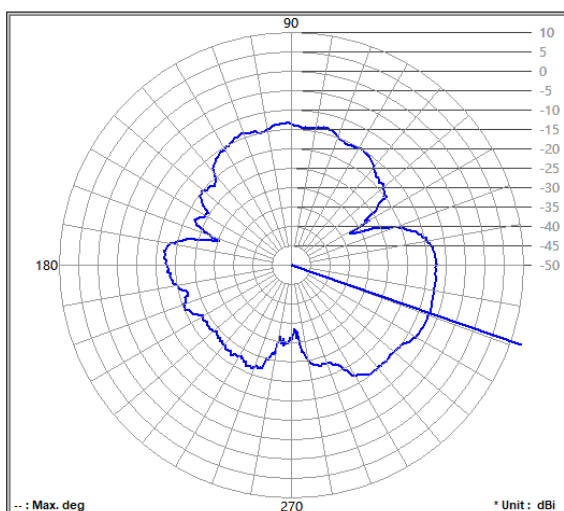
Frequency (MHz) : 2402.00 Antenna Polarity : Horizontal Average Value (dBi) : -4.17
Maximum Value (dBi) : 0.32 Maximum Value (degree) : 133.00
Minimum Value (dBi) : -14.56 Minimum Value (degree) : 185.00



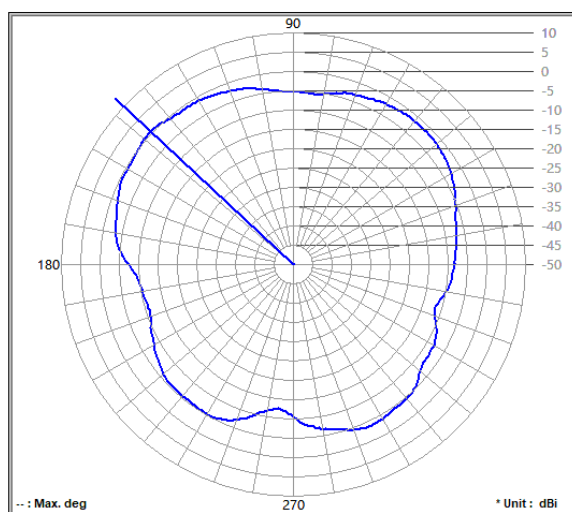
Frequency (MHz) : 2402.00 Antenna Polarity : Vertical Average Value (dBi) : -16.97
Maximum Value (dBi) : -12.61 Maximum Value (degree) : 110.00
Minimum Value (dBi) : -33.66 Minimum Value (degree) : 275.00



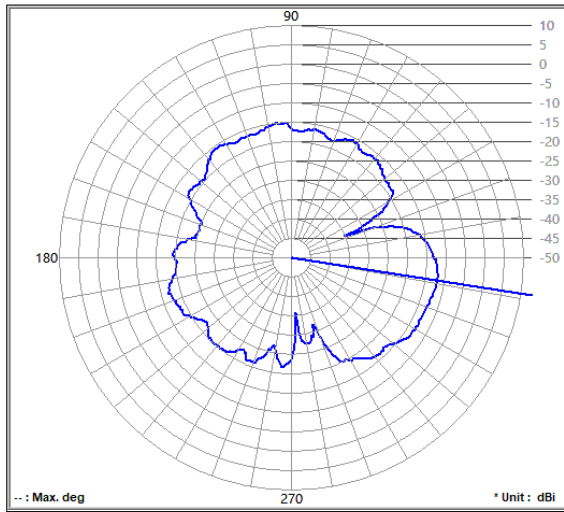
Frequency (MHz) : 2440.00 Antenna Polarity : Horizontal Average Value (dB) : -3.75
 Maximum Value (dB) : 0.76 Maximum Value (degree) : 132.00
 Minimum Value (dB) : -14.63 Minimum Value (degree) : 189.00



Frequency (MHz) : 2440.00 Antenna Polarity : Vertical Average Value (dB) : -16.85
 Maximum Value (dB) : -12.13 Maximum Value (degree) : 341.00
 Minimum Value (dB) : -33.45 Minimum Value (degree) : 273.00



Frequency (MHz) : 2480.00 Antenna Polarity : Horizontal Average Value (dB) : -4.24
 Maximum Value (dB) : 0.54 Maximum Value (degree) : 137.00
 Minimum Value (dB) : -12.47 Minimum Value (degree) : 264.00



Frequency (MHz) : 2480.00 Antenna Polarity : Vertical Average Value (dB) : -17.44
 Maximum Value (dB) : -11.76 Maximum Value (degree) : 351.00
 Minimum Value (dB) : -35.67 Minimum Value (degree) : 274.00

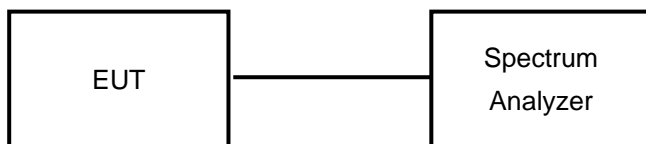
4 Test Results

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	2402.007320	3.047	2402.007240	3.014	2402.007200	2.997
39	2441	2441.007080	2.900	2441.007079	2.900	2441.007079	2.900
77	2479	2479.007200	2.904	2479.007160	2.888	2479.007160	2.888

4.2 Occupied Bandwidth Measurement (99% power bandwidth)

4.2.1 Limits of Occupied Bandwidth Measurement

Item	Limit
Occupied bandwidth	<26MHz

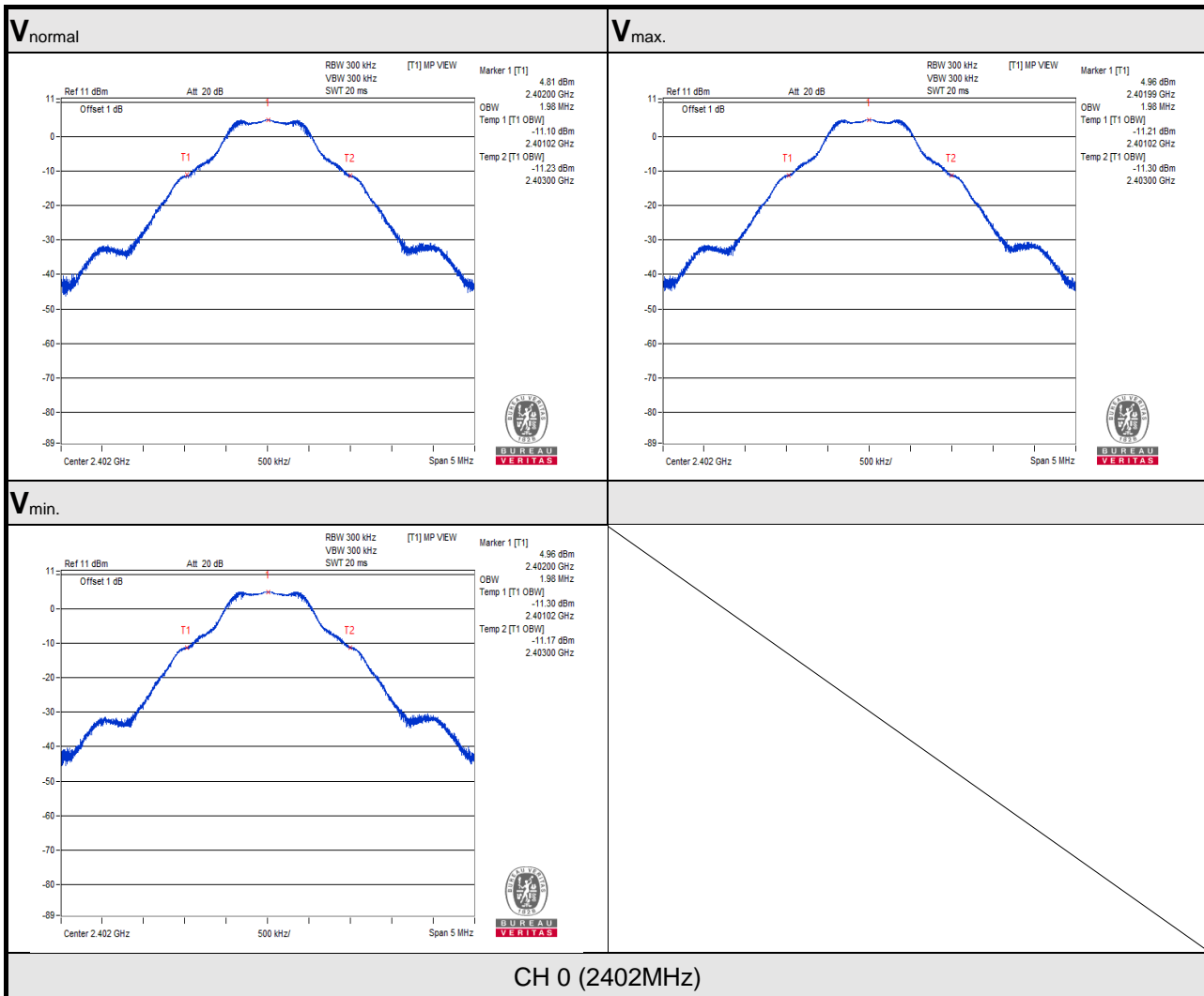
4.2.2 Test Setup



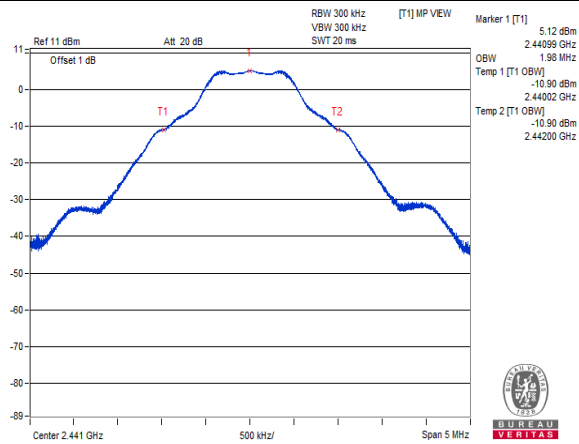
4.2.3 Test Results

Channel	Frequency (MHz)	V_{normal}	$V_{max.}$	$V_{min.}$
		Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
0	2402	1.98	1.98	1.98
39	2441	1.98	1.98	1.98
77	2479	1.99	1.99	1.99

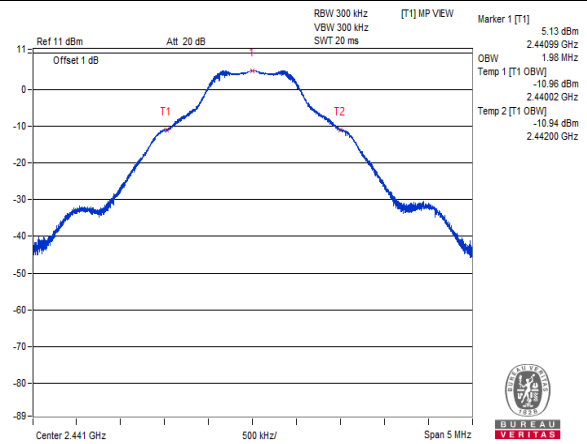
NOTE: For the test plots please refer to the below pages.



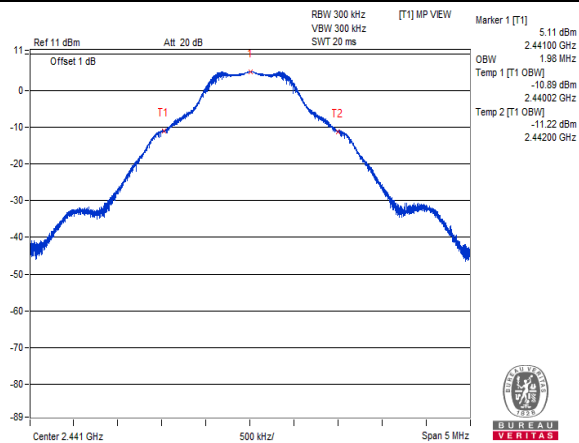
V_{normal}



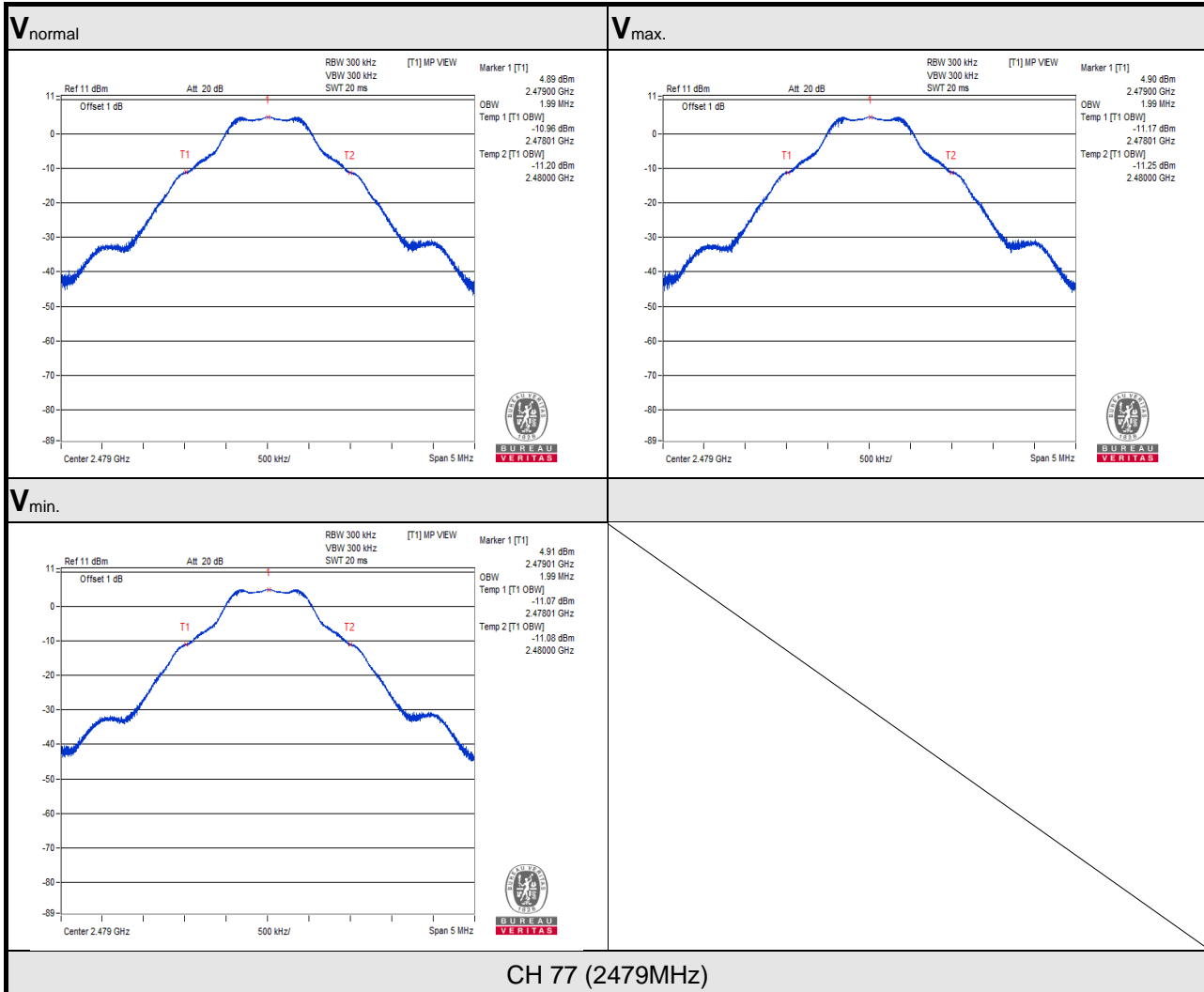
V_{max.}



V_{min.}



CH 39 (2441MHz)



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



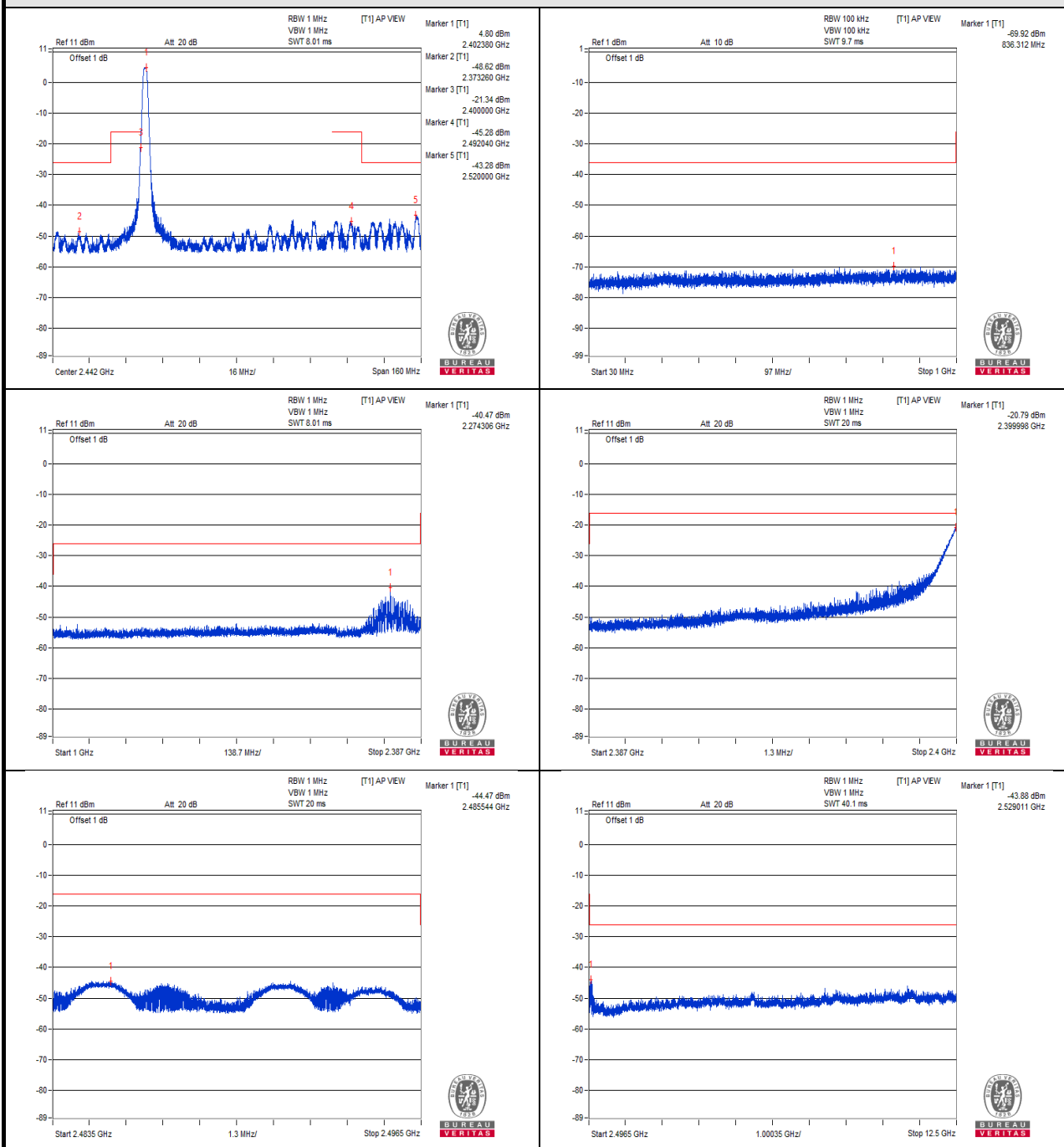
4.3.3 Test Results

TEST CHANNEL		CH 0 (2402MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(μ W)	LIMIT (μ W)	RESULT
V_{normal}	30MHz to 1000MHz	836.312	0.000102	0.25	PASS
	1000MHz to 2387MHz	2274.306	0.089743	2.5	PASS
	2387MHz to 2400MHz	2399.998	8.336812	25	PASS
	2483.5MHz to 2496.5MHz	2485.544	0.035727	25	PASS
	2496.5MHz to 12500MHz	2529.011	0.040926	2.5	PASS
V_{max.}	30MHz to 1000MHz	759.561	0.000097	0.25	PASS
	1000MHz to 2387MHz	2274.306	0.081283	2.5	PASS
	2387MHz to 2400MHz	2399.998	8.649679	25	PASS
	2483.5MHz to 2496.5MHz	2485.107	0.035975	25	PASS
	2496.5MHz to 12500MHz	2530.261	0.055847	2.5	PASS
V_{min.}	30MHz to 1000MHz	834.008	0.000093	0.25	PASS
	1000MHz to 2387MHz	2274.479	0.075858	2.5	PASS
	2387MHz to 2400MHz	2400.000	9.015711	25	PASS
	2483.5MHz to 2496.5MHz	2485.255	0.034834	25	PASS
	2496.5MHz to 12500MHz	2530.261	0.035975	2.5	PASS
TEST CHANNEL		CH 39 (2441MHz)			
V_{normal}	30MHz to 1000MHz	905.910	0.000095	0.25	PASS
	1000MHz to 2387MHz	2313.315	0.053211	2.5	PASS
	2387MHz to 2400MHz	2387.060	0.025410	25	PASS
	2483.5MHz to 2496.5MHz	2495.723	0.027669	25	PASS
	2496.5MHz to 12500MHz	2569.025	0.034834	2.5	PASS
V_{max.}	30MHz to 1000MHz	927.492	0.000099	0.25	PASS
	1000MHz to 2387MHz	2312.968	0.063387	2.5	PASS
	2387MHz to 2400MHz	2387.009	0.026853	25	PASS
	2483.5MHz to 2496.5MHz	2495.516	0.023988	25	PASS
	2496.5MHz to 12500MHz	6910.544	0.030974	2.5	PASS
V_{min.}	30MHz to 1000MHz	947.377	0.000110	0.25	PASS
	1000MHz to 2387MHz	2313.142	0.063387	2.5	PASS
	2387MHz to 2400MHz	2387.042	0.027797	25	PASS
	2483.5MHz to 2496.5MHz	2495.565	0.023496	25	PASS
	2496.5MHz to 12500MHz	2559.021	0.032211	2.5	PASS

TEST CHANNEL		CH 77 (2479MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30MHz to 1000MHz	567.258	0.000104	0.25	PASS
	1000MHz to 2387MHz	2351.111	0.082035	2.5	PASS
	2387MHz to 2400MHz	2395.620	0.040926	25	PASS
	2483.5MHz to 2496.5MHz	2483.582	0.133660	25	PASS
	2496.5MHz to 12500MHz	2625.295	0.028379	2.5	PASS
V_{max.}	30MHz to 1000MHz	529.671	0.000097	0.25	PASS
	1000MHz to 2387MHz	2351.631	0.079983	2.5	PASS
	2387MHz to 2400MHz	2395.502	0.042855	25	PASS
	2483.5MHz to 2496.5MHz	2483.647	0.111429	25	PASS
	2496.5MHz to 12500MHz	2606.538	0.043551	2.5	PASS
V_{min.}	30MHz to 1000MHz	961.685	0.000113	0.25	PASS
	1000MHz to 2387MHz	2351.111	0.079616	2.5	PASS
	2387MHz to 2400MHz	2395.562	0.039446	25	PASS
	2483.5MHz to 2496.5MHz	2483.587	0.106414	25	PASS
	2496.5MHz to 12500MHz	2606.538	0.035481	2.5	PASS

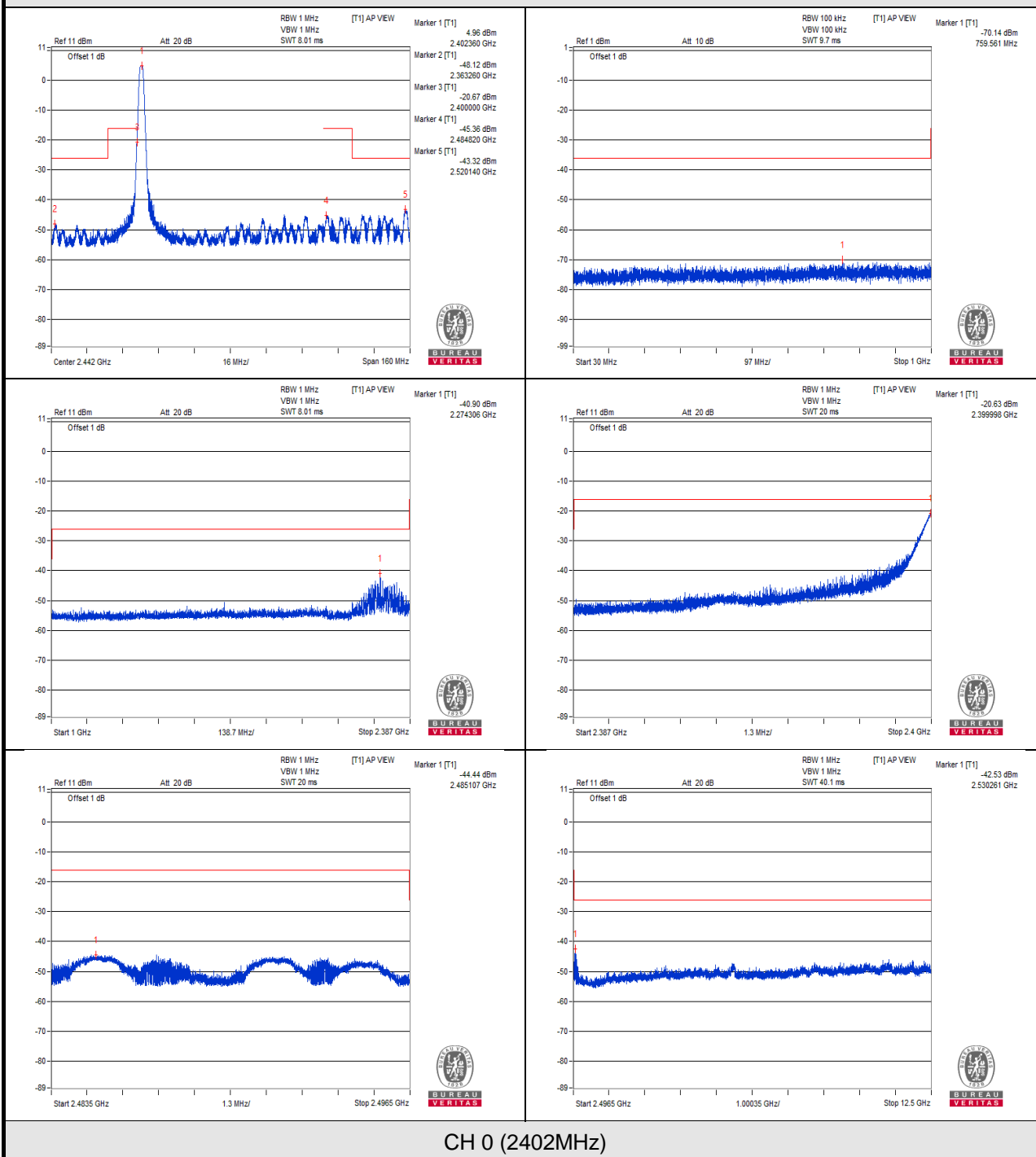
NOTE: The spectrum plots are attached on the following pages.

Vnormal

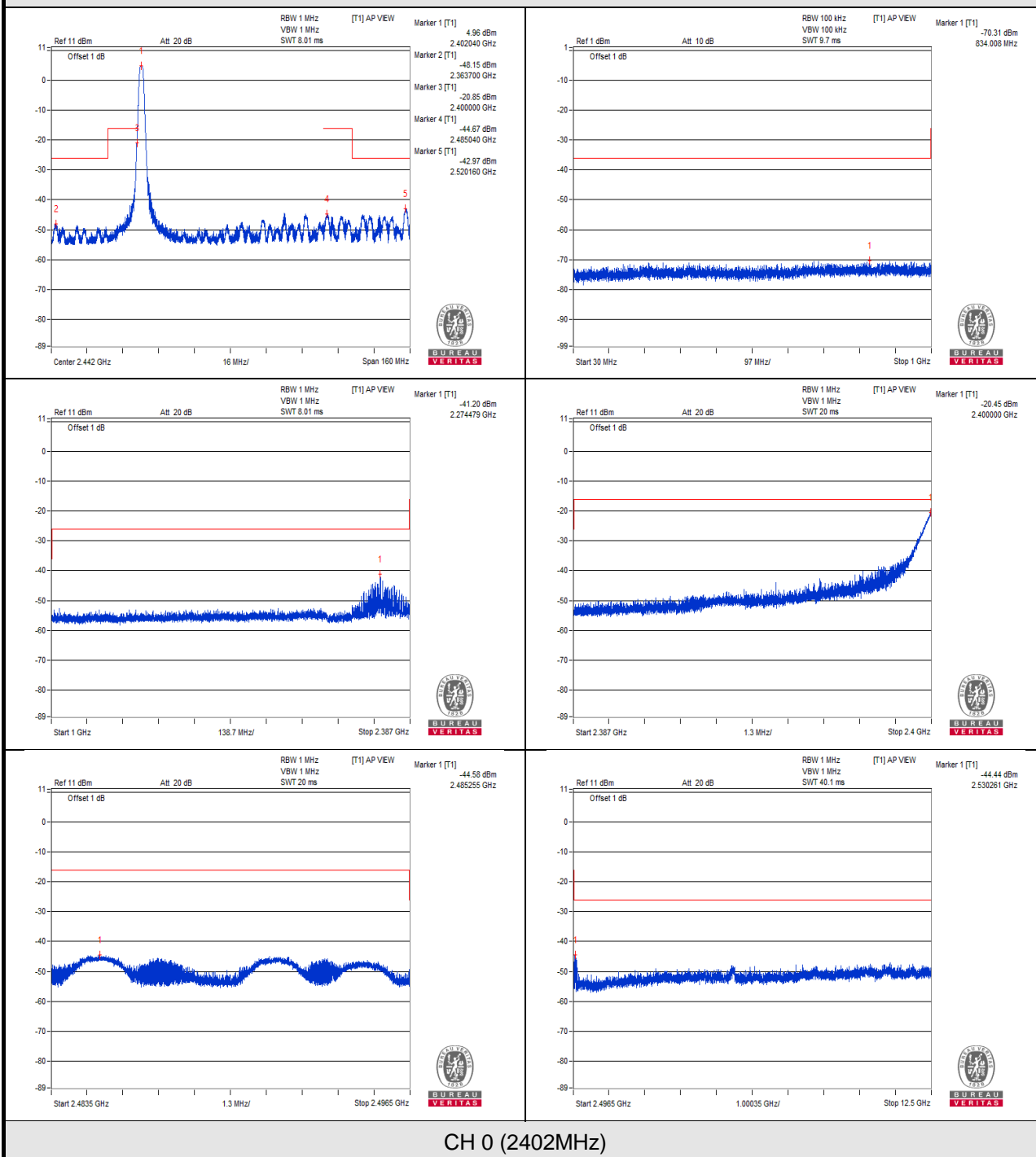


CH 0 (2402MHz)

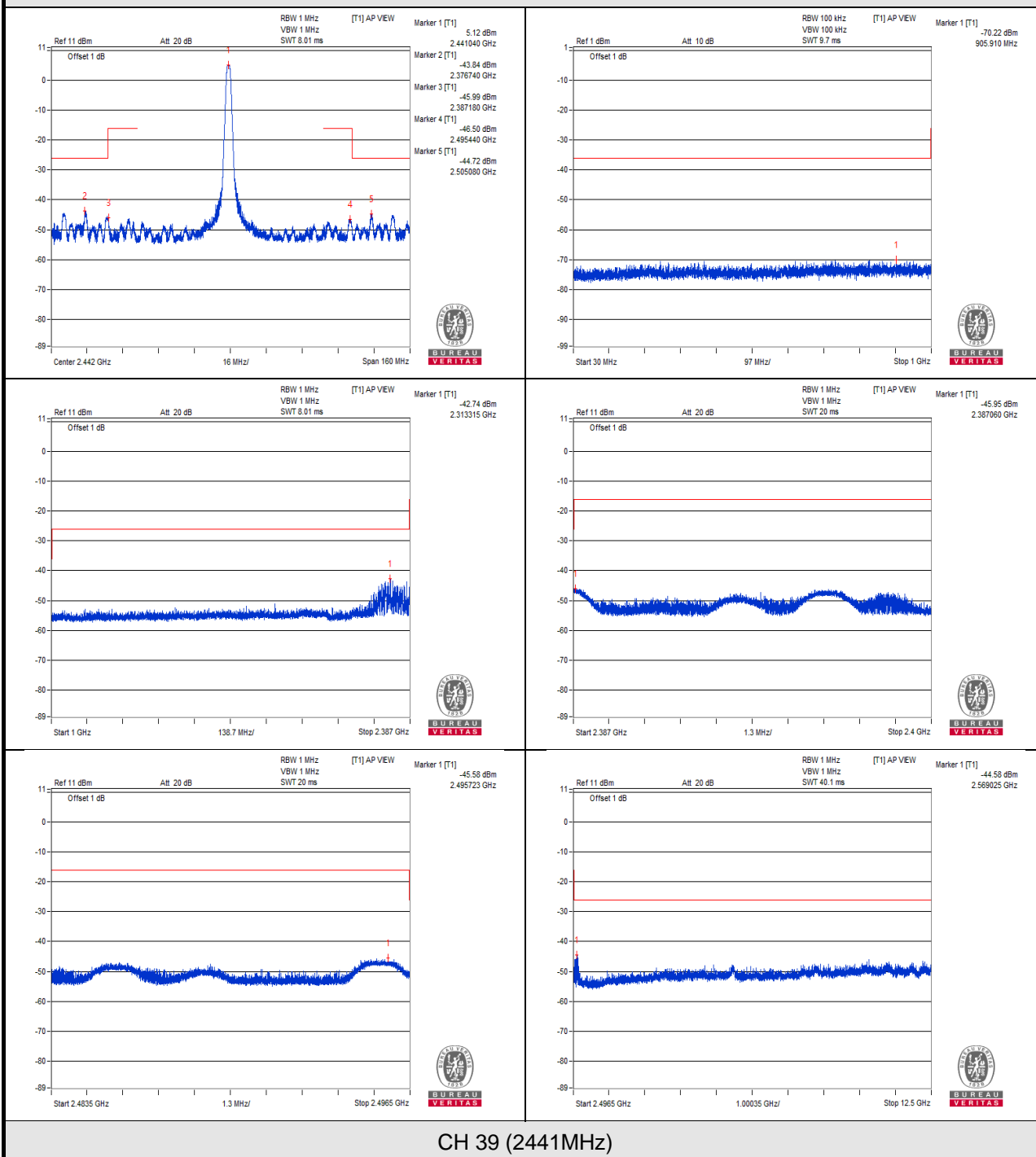
V_{max}.



V_{min}.

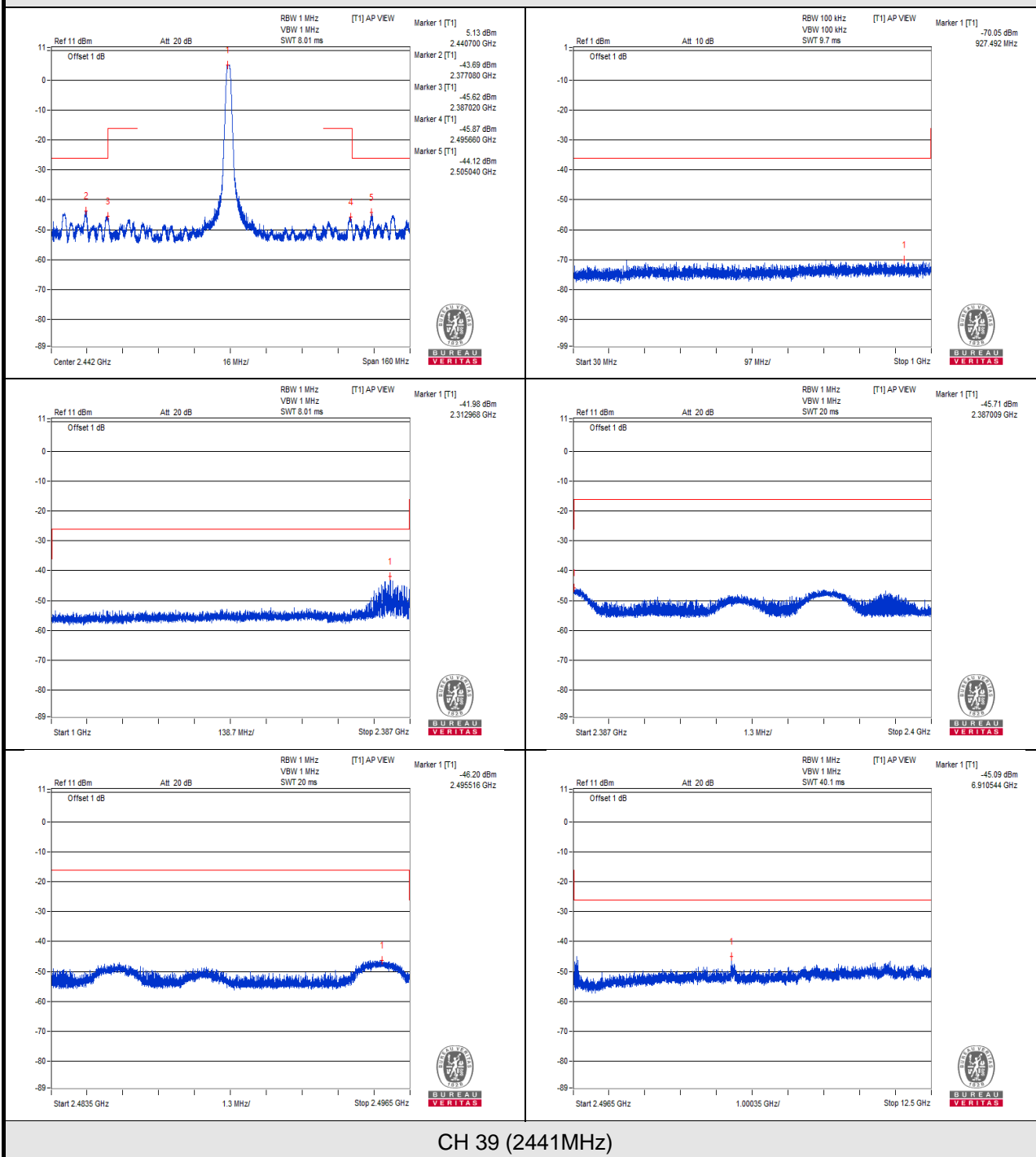


Vnormal

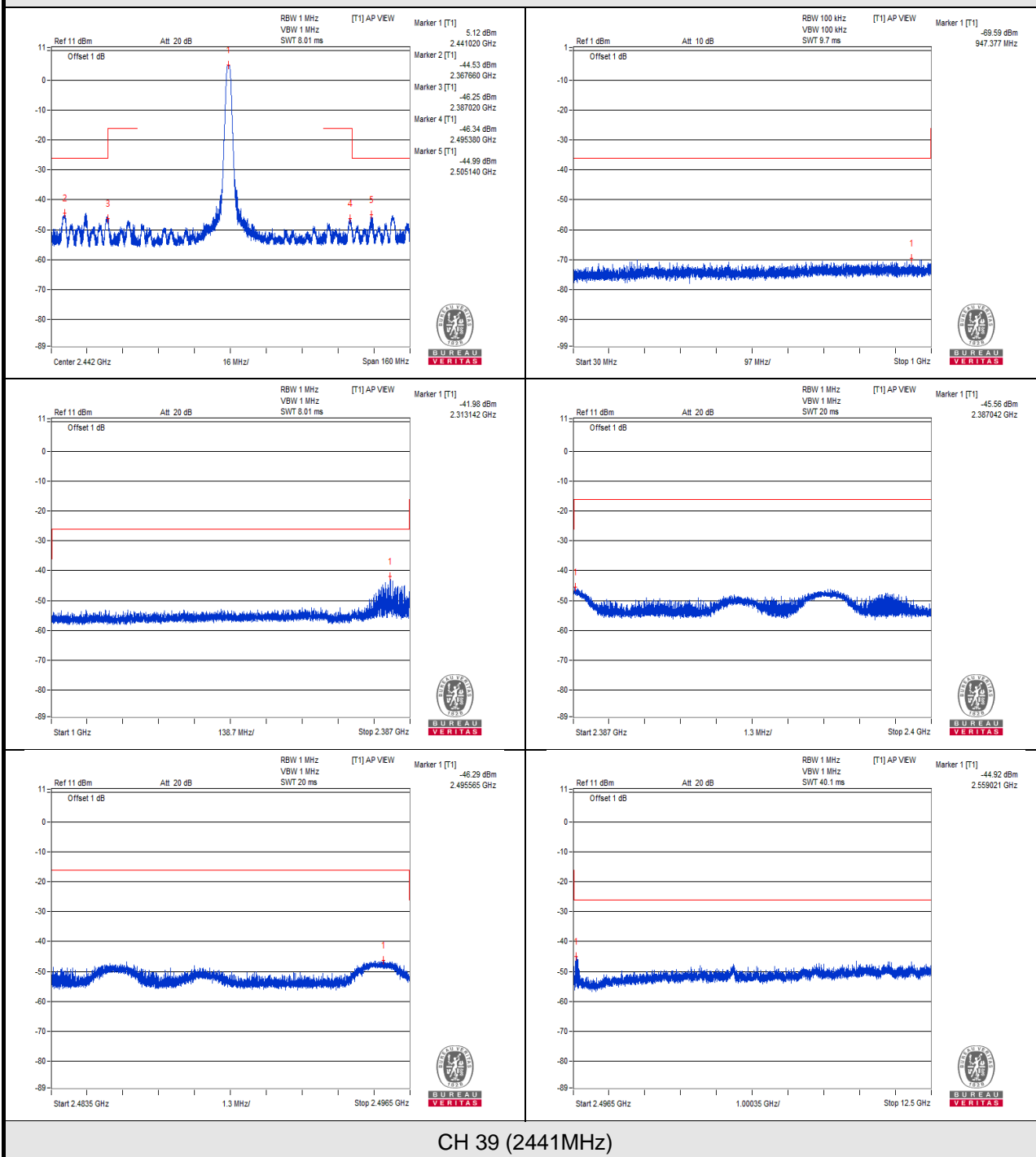


CH 39 (2441MHz)

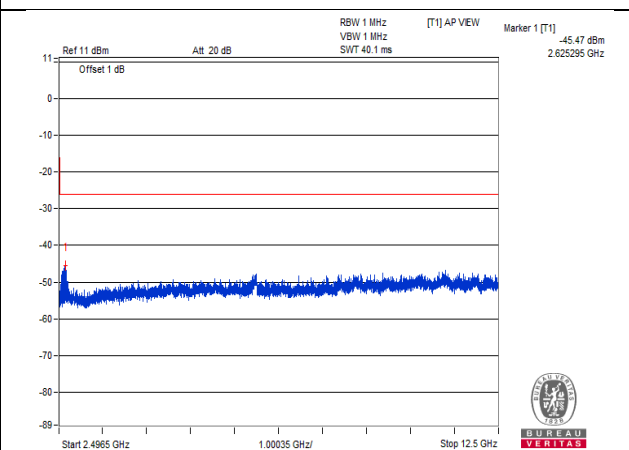
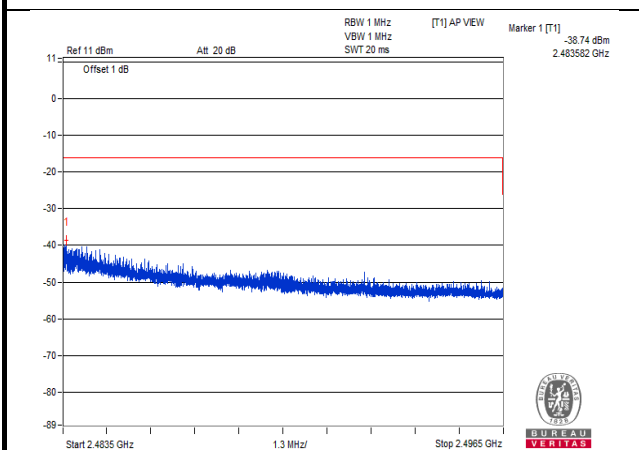
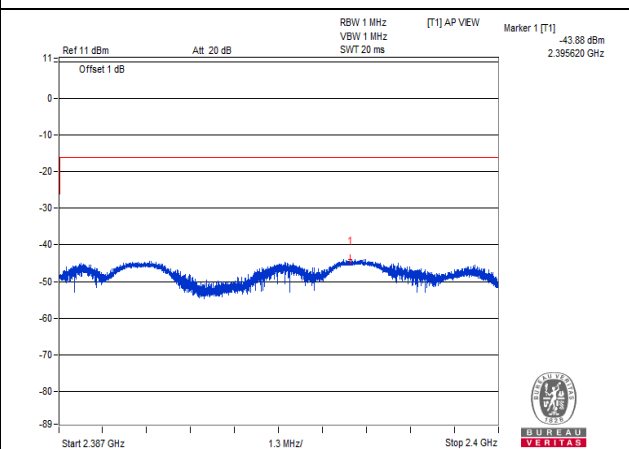
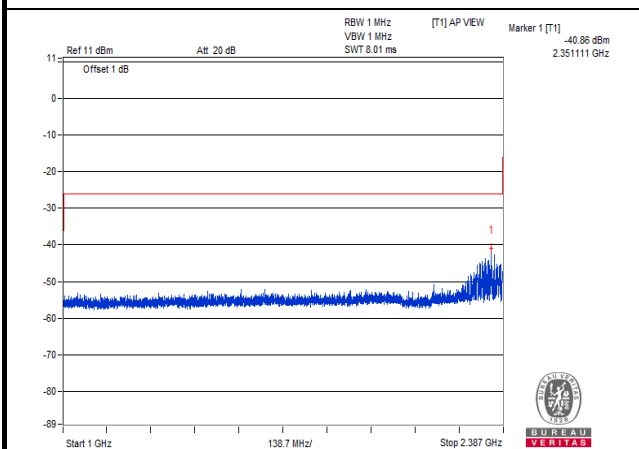
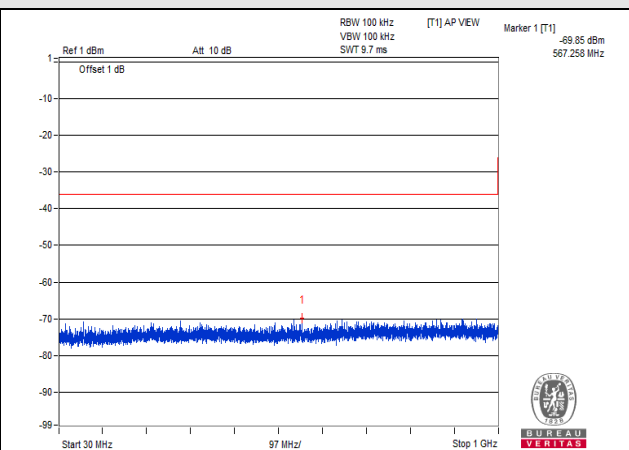
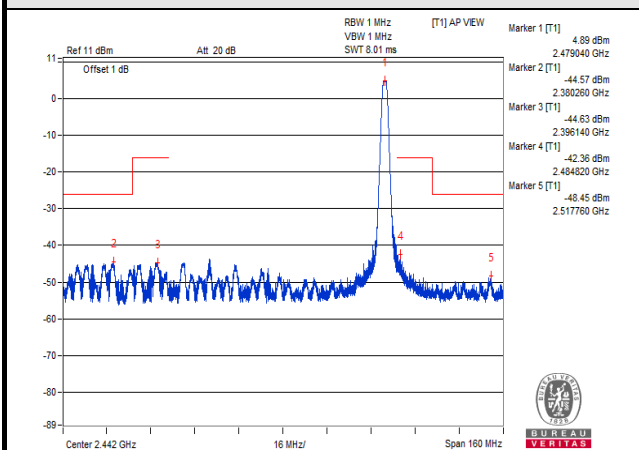
V_{max}.



V_{min}.

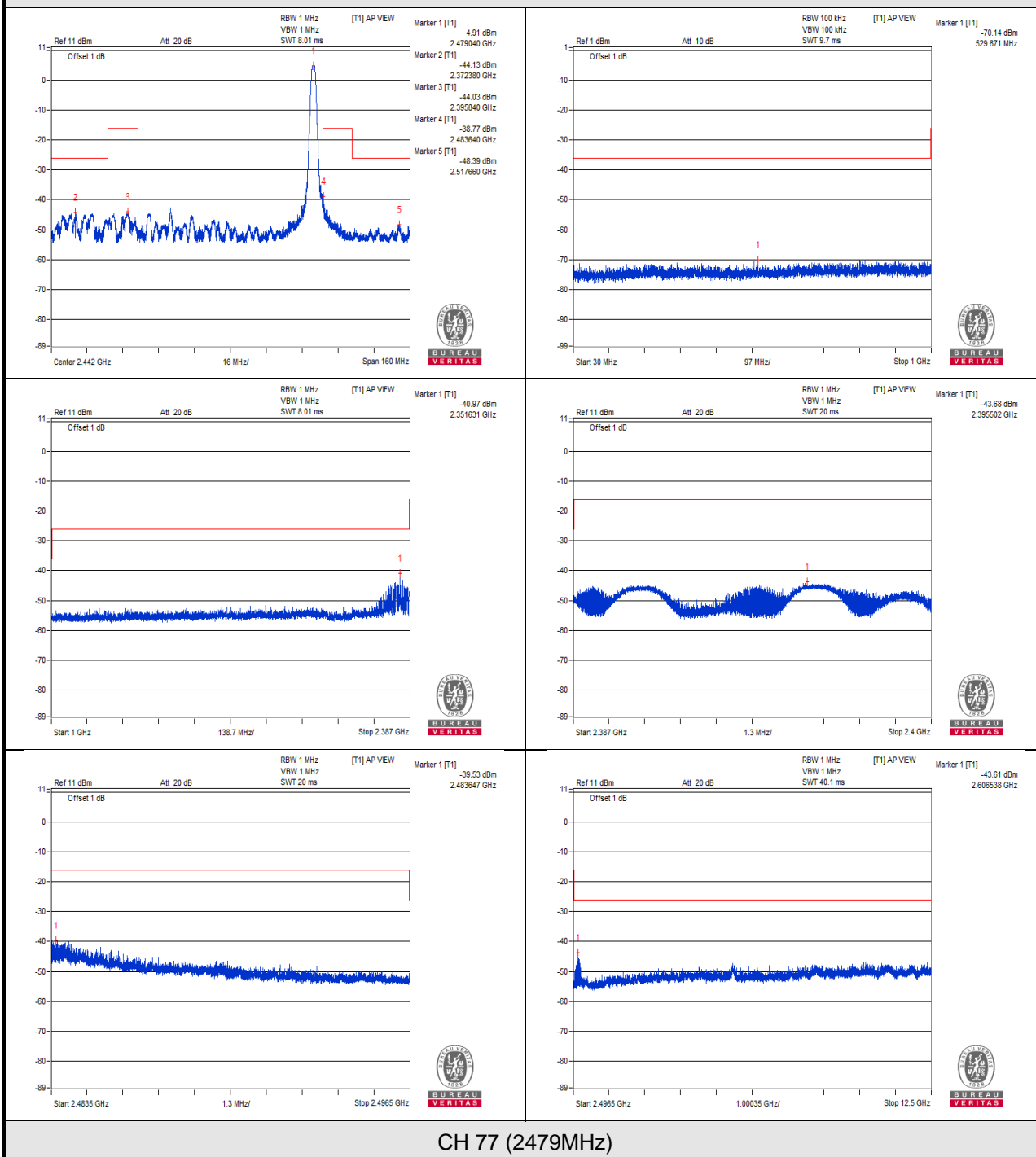


Vnormal

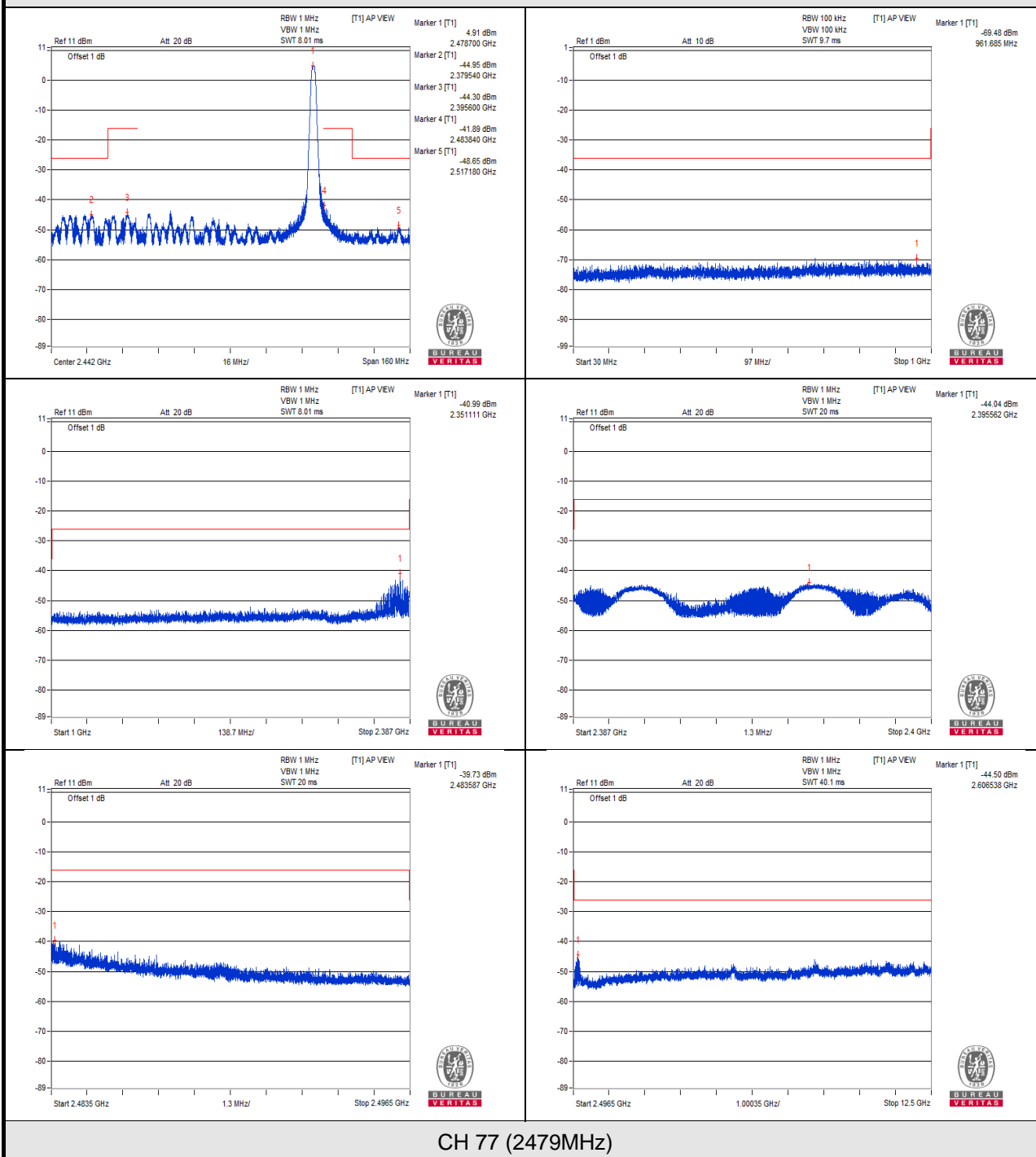


CH 77 (2479MHz)

V_{max}.



V_{min}.



4.4 Antenna Power Measurement

4.4.1 Limits of Antenna Power

Modulation System	Frequency Band Used	Antenna Power (Max.)	EIRP Limit (Note 3)
DS	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}	0	2402	3.141	3.742
	39	2441	3.083	3.673
	77	2479	2.985	3.556
V_{max.}	0	2402	3.105	3.699
	39	2441	3.02	3.598
	77	2479	2.877	3.427
V_{min.}	0	2402	3.214	3.829
	39	2441	3.148	3.75
	77	2479	3.105	3.699
Max. Limit (mW):			10	-
Rated Power (mW):			4	-
Tolerance of Antenna Power (mW):			0.8 ~ 4.8	-
Max. EIRP Limit (mW):			-	16.368

Note: 1. Antenna gain is 0.76 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)

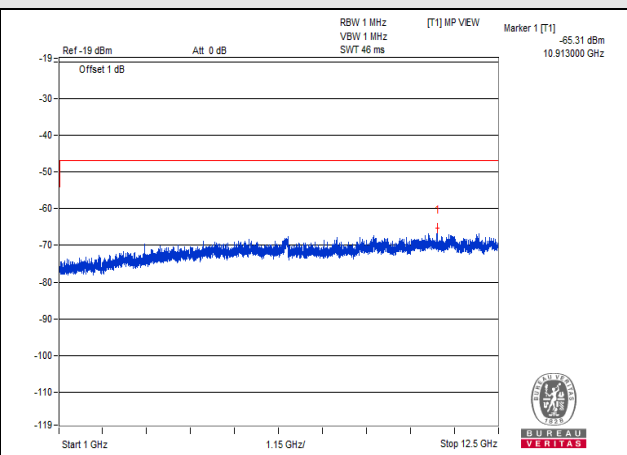
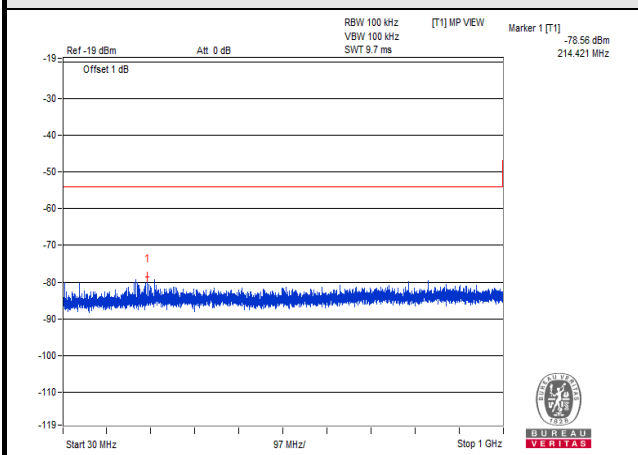
4.5.2 Test Setup



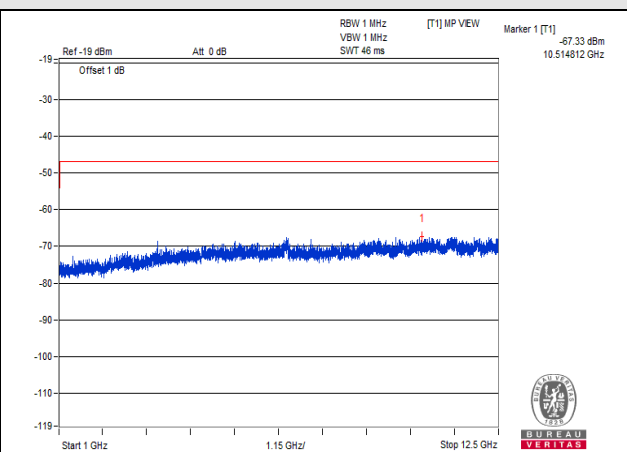
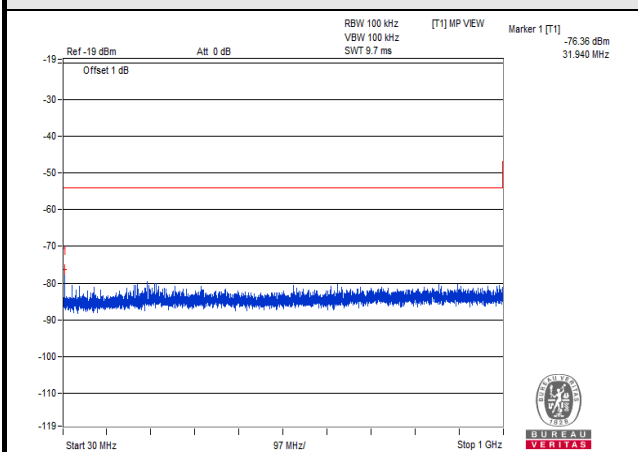
4.5.3 Test Result

TEST CHANNEL		CH 0 (2402MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30MHz to 1000MHz	214.421	0.013932	4.0	PASS
	1000MHz to 12500MHz	10913.000	0.294442	20.0	PASS
V_{max.}	30MHz to 1000MHz	31.940	0.023121	4.0	PASS
	1000MHz to 12500MHz	10514.812	0.184927	20.0	PASS
V_{min.}	30MHz to 1000MHz	31.940	0.019634	4.0	PASS
	1000MHz to 12500MHz	11207.687	0.207970	20.0	PASS
TEST CHANNEL		CH 39 (2441MHz)			
V_{normal}	30MHz to 1000MHz	31.940	0.024322	4.0	PASS
	1000MHz to 12500MHz	10557.937	0.215278	20.0	PASS
V_{max.}	30MHz to 1000MHz	31.940	0.022646	4.0	PASS
	1000MHz to 12500MHz	11351.437	0.257632	20.0	PASS
V_{min.}	30MHz to 1000MHz	31.940	0.020989	4.0	PASS
	1000MHz to 12500MHz	11946.562	0.221309	20.0	PASS
TEST CHANNEL		CH 77 (2479MHz)			
V_{normal}	30MHz to 1000MHz	980.115	0.009462	4.0	PASS
	1000MHz to 12500MHz	11960.937	0.237137	20.0	PASS
V_{max.}	30MHz to 1000MHz	848.316	0.008831	4.0	PASS
	1000MHz to 12500MHz	10537.812	0.190108	20.0	PASS
V_{min.}	30MHz to 1000MHz	644.616	0.008954	4.0	PASS
	1000MHz to 12500MHz	6941.187	0.207491	20.0	PASS

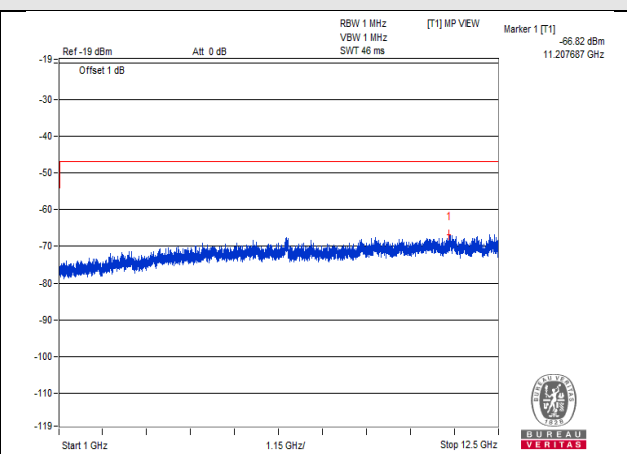
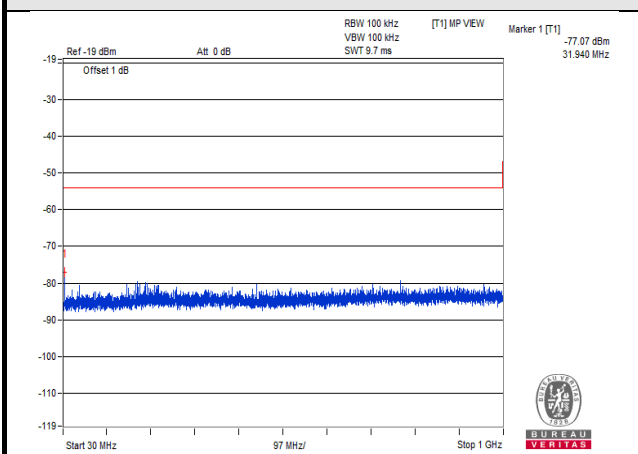
V_{normal}



V_{max.}

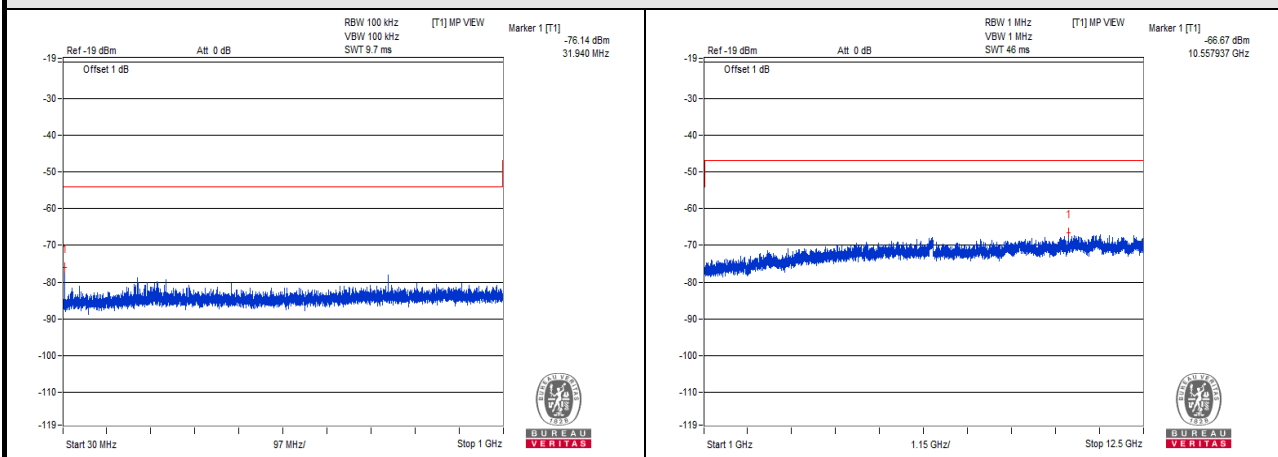


V_{min.}

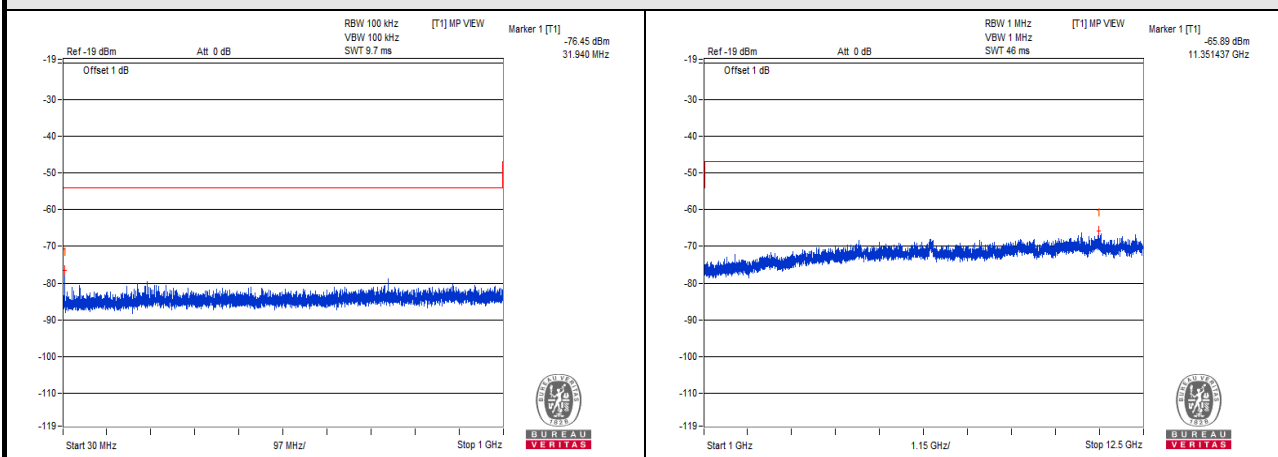


CH 0 (2402MHz)

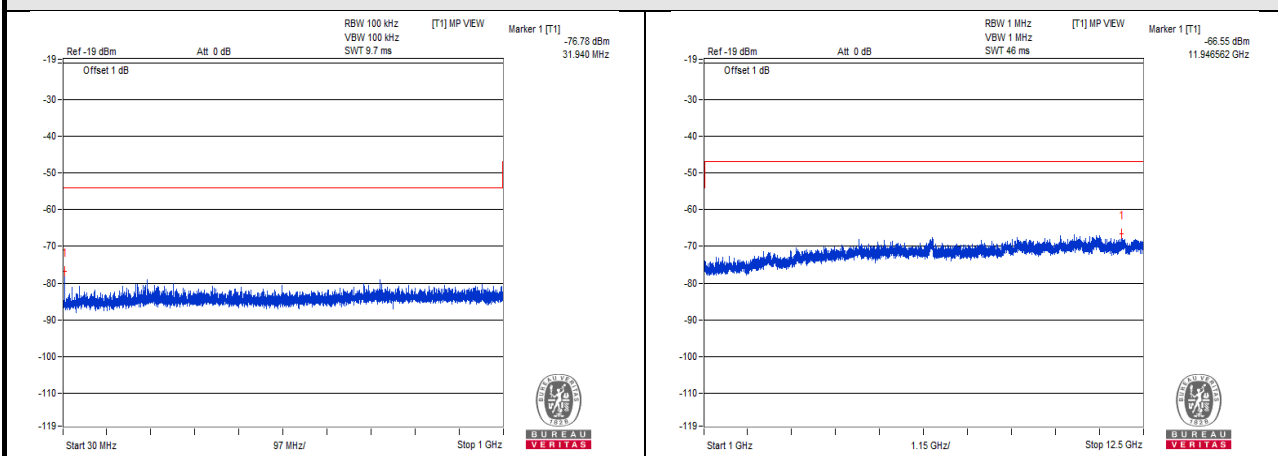
V_{normal}



V_{max.}

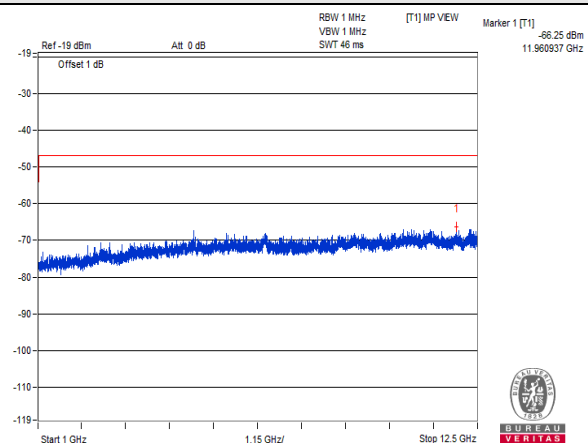
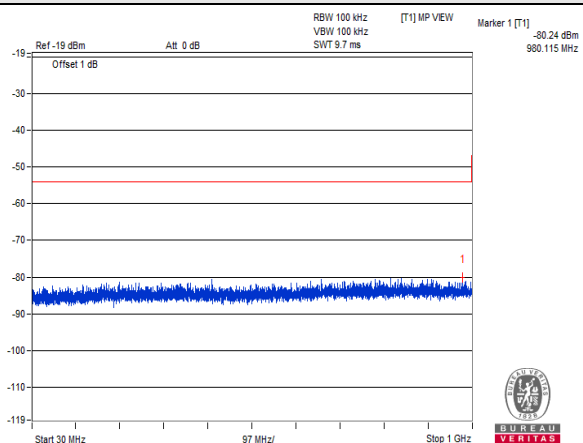


V_{min.}

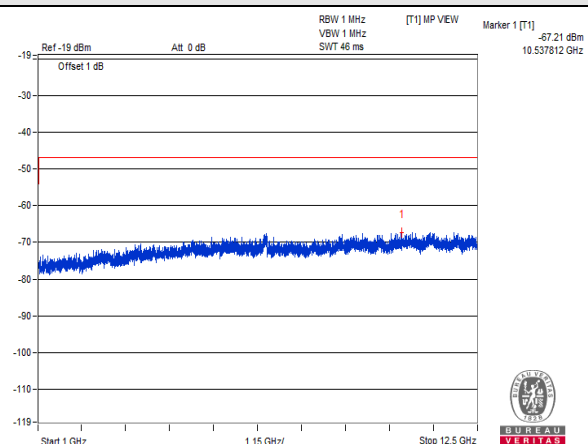
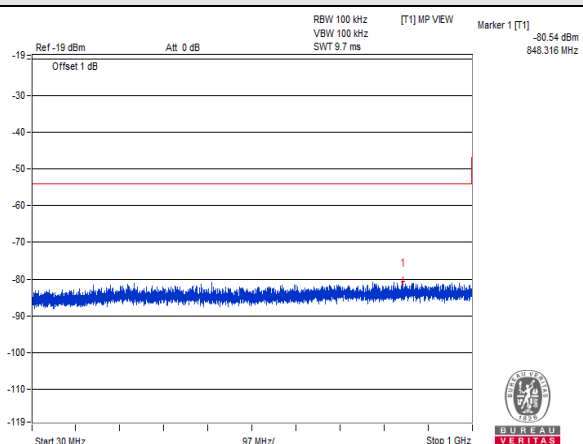


CH 39 (2441MHz)

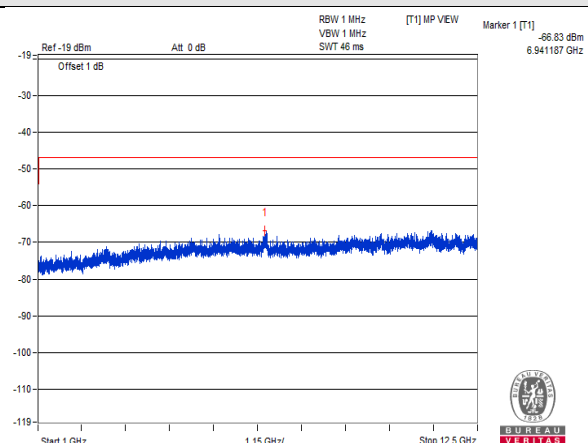
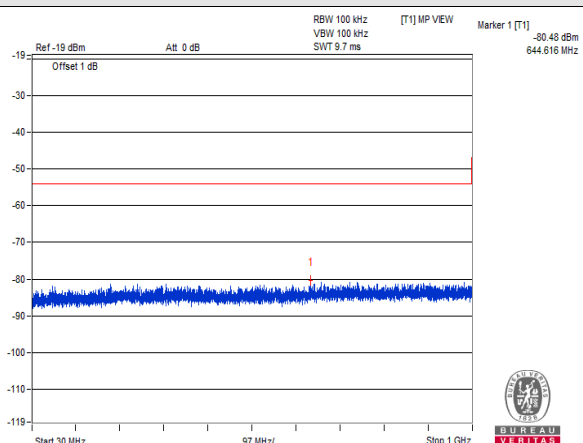
V_{normal}



V_{max.}



V_{min.}



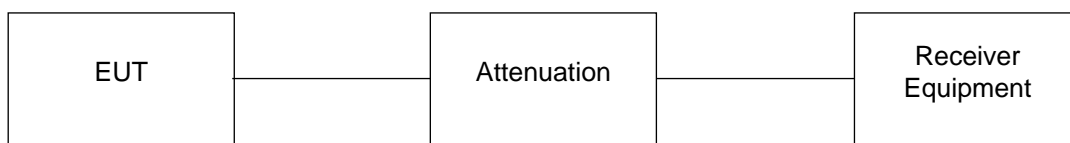
CH 77 (2479MHz)

4.6 Interference Prevention Function

4.6.1 Limits of Interference Prevention Function

Radio equipment used mainly on the same premises and automatically transmits or receives identification code.

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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