

Radio Test Report

Report No.: RJBKWC-WTW-P22070371

Test Model: RGP0146

Received Date: 2022/7/13

Test Date: 2022/7/21

Issued Date: 2022/8/24

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

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Release Control Record

Issue No.	Description	Date Issued
RJBEKC-WTW-P22070371	Original release.	2022/8/24

1 Certificate of Conformity

Product: Dongle

Brand: CORSAIR

Test Model: RGP0146

Sample Status: Engineering sample

Applicant: Corsair Memory, Inc.

Test Date: 2022/7/21

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 :

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Date:

2022/8/24

Annie Chang / Senior Specialist

Approved by :

Jeremy Lin

Date:

2022/8/24

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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 Power measurement Test set (4X4) KEYSIGHT	U2021XA	U2021XA_001	2022/6/13	2023/6/12	ETC	c)
Spectrum Analyzer R&S	FSV40	101042	2021/9/9	2022/9/8	ETC	c)
Spectrum Analyzer KEYSIGHT	N9030A	MY54490260	2022/7/14	2023/7/13	ETC	c)
Pulse Power Sensor Anritsu	MA2411B	1207333	2022/1/9	2023/1/8	ETC	c)
Peak Power meter Anritsu	ML2495A	1232003	2022/1/9	2023/1/8	ETC	c)
MXG Vector Signal Generator KEYSIGHT	N5182B	MY53052658	2022/5/9	2023/5/8	ETC	c)
Voltage Meter FLUKE	179	89610322	2021/10/5	2022/10/4	ETC	c)
Programmable DC Power Supply (IDRC)	DSP80-180WE	701217	2022/3/3	2023/3/2	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 (\pm)
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	Dongle
Brand	CORSAIR
Test Model	RGP0146
Status of EUT	Engineering sample
Nominal Voltage	5Vdc from host equipment
Modulation Type	GFSK
Operating Frequency	2403MHz ~ 2480MHz
Number of Channel	78
Rated RF Output Power	0.4mW
Conducted RF Output Power	0.394mW
Radiated RF Output Power	0.385mW
Antenna Type	Chip Antenna with -0.1dBi gain
Antenna Connector	N/A
Accessory Device	N/A
Data Cable Supplied	N/A

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

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
38	0
77	0

3.3 Test Conditions

Test Conditions		Voltage (Vdc)
V_{normal}	-	5.0
$V_{max.}$	+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 use ultrasonic welding to seal the product. Separating the two parts (i.e operating of the housing) was only possible by means of brute force.

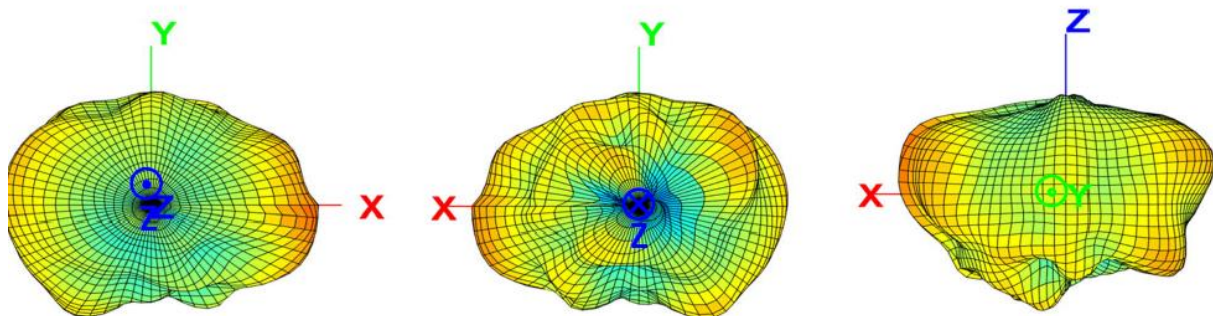
3.5 Antenna Specifications

3.5.1 Antenna Gain

Antenna Type	Max. Gain (dBi)
Chip	-0.1

Note: Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

3.5.2 Antenna Pattern



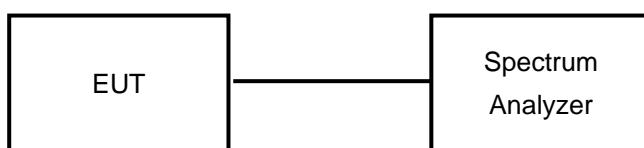
4 Test Results

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)
0	2403	2402.978960	-8.755	2402.978920	-8.772	2402.978960	-8.755
38	2441	2440.978640	-8.750	2440.978600	-8.766	2440.978600	-8.766
77	2480	2479.978239	-8.774	2479.978240	-8.774	2479.978240	-8.774

4.2 Occupied Bandwidth Measurement (99% power bandwidth)

4.2.1 Limits of Occupied Bandwidth Measurement

Item	Limit
Occupied bandwidth	<26MHz

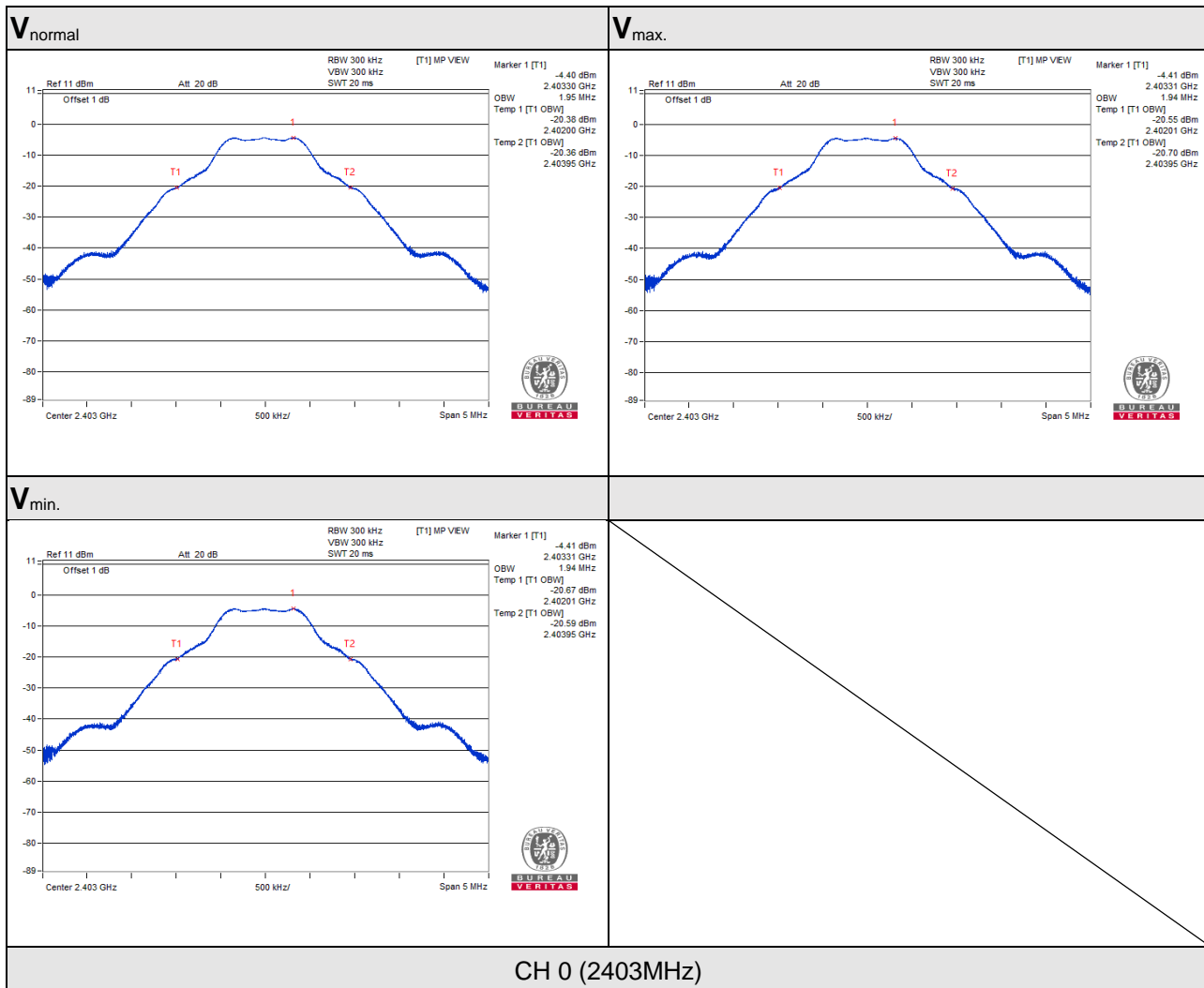
4.2.2 Test Setup



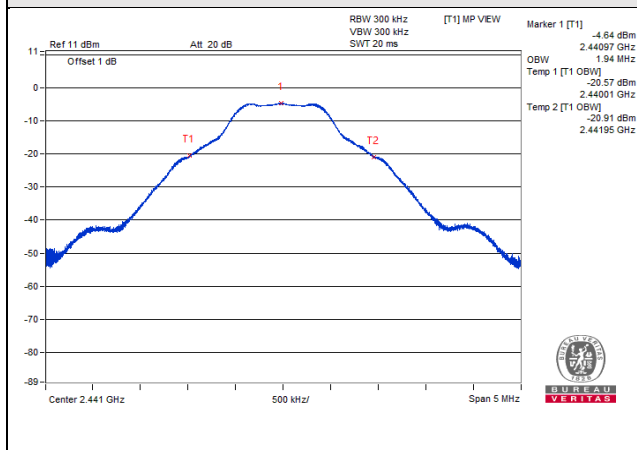
4.2.3 Test Results

Channel	Frequency (MHz)	V_{normal}	$V_{max.}$	$V_{min.}$
		Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
0	2403	1.95	1.94	1.94
38	2441	1.94	1.94	1.94
77	2480	1.94	1.94	1.95

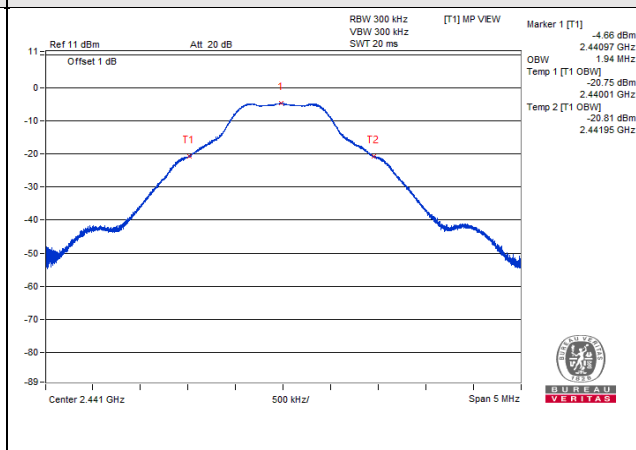
NOTE: For the test plots please refer to the below pages.



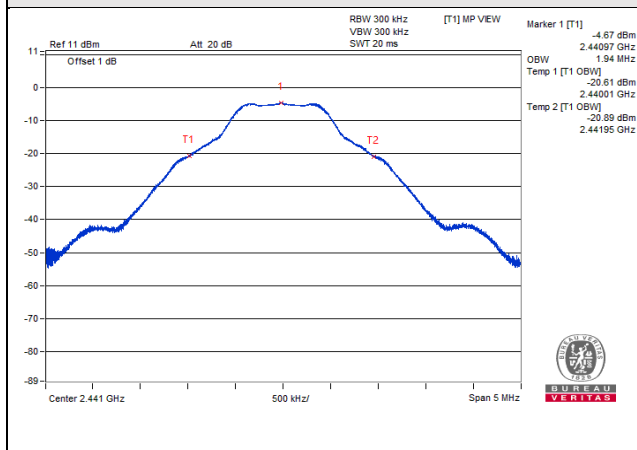
V_{normal}



V_{max.}

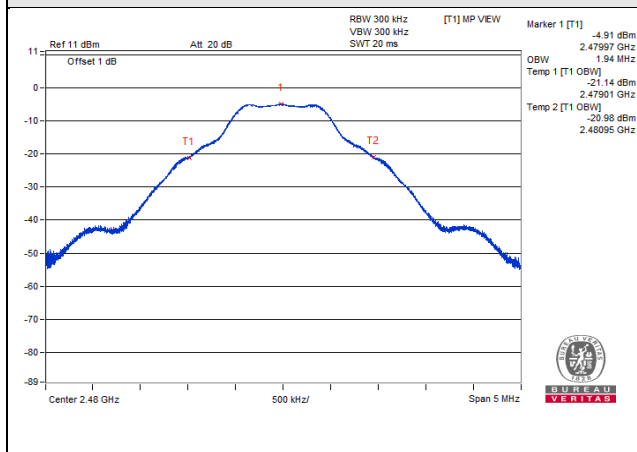


V_{min.}

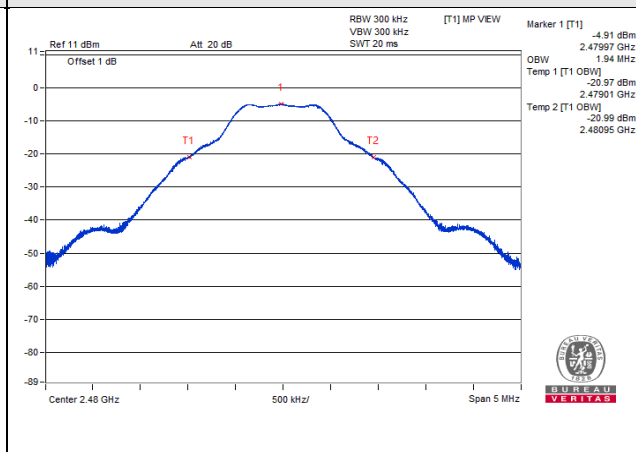


CH 38 (2441MHz)

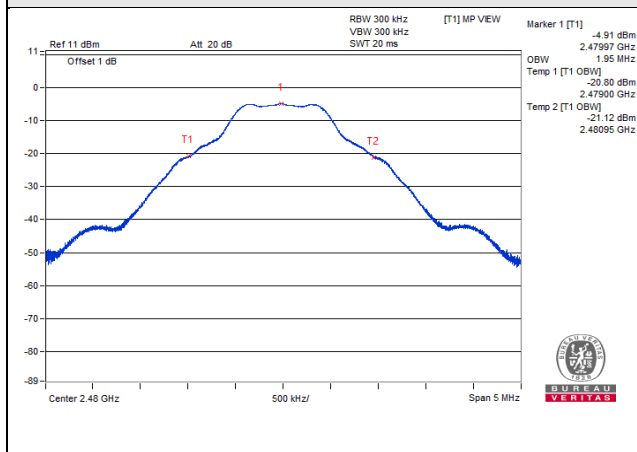
V_{normal}



V_{max.}



V_{min.}



CH 77 (2480MHz)

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



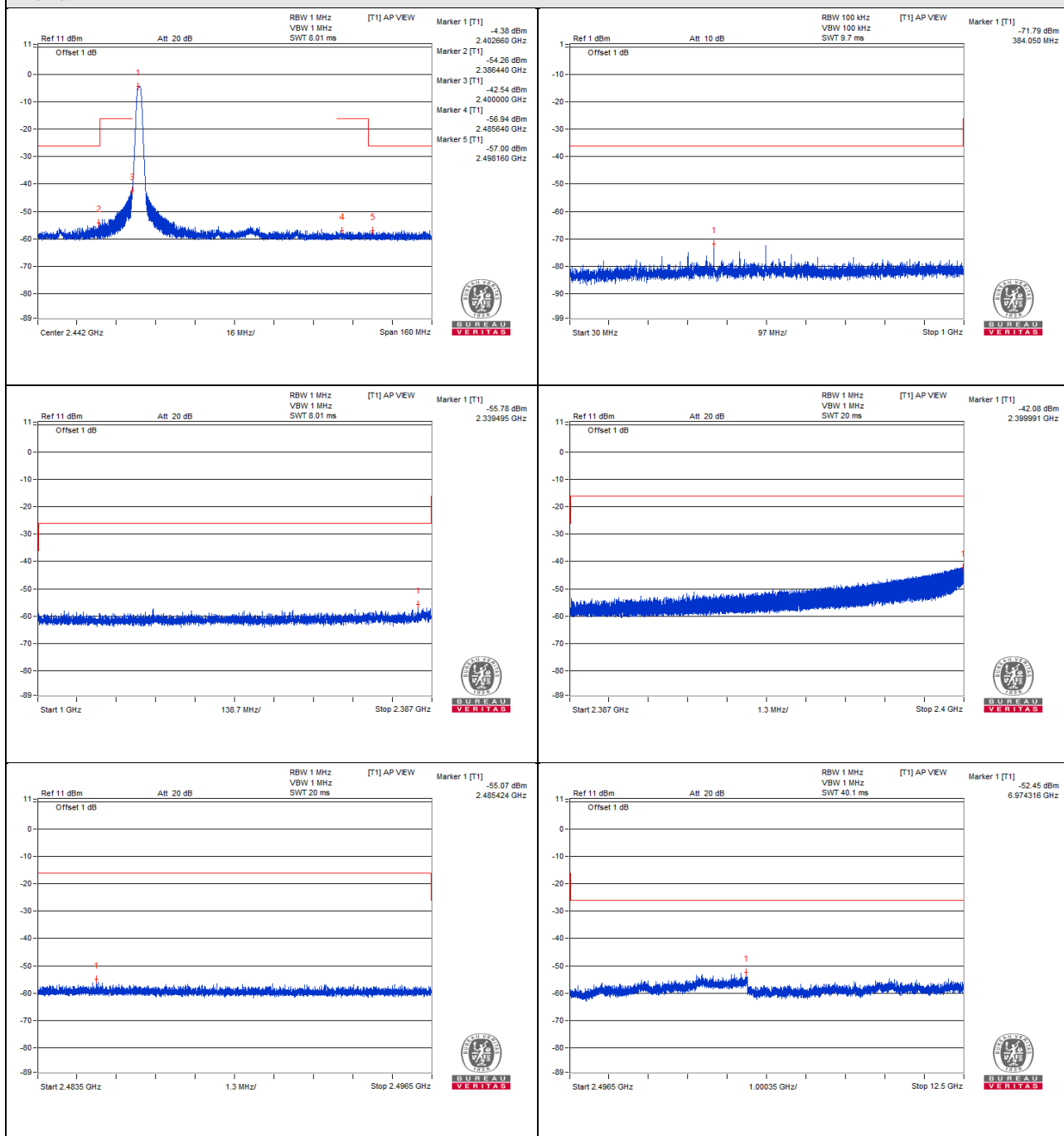
4.3.3 Test Results

TEST CHANNEL		CH 0 (2403MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(μ W)	LIMIT	RESULT
V_{normal}	30MHz to 1000MHz	384.050	0.000066	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	2339.495	0.002642	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2399.991	0.061944	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2485.424	0.003112	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	6974.316	0.005689	2.5 μ W/MHz	PASS
V_{max.}	30MHz to 1000MHz	511.968	0.000067	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	2358.739	0.003289	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2399.980	0.061518	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2488.059	0.002606	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	6985.570	0.004426	2.5 μ W/MHz	PASS
V_{min.}	30MHz to 1000MHz	384.050	0.000073	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	2386.306	0.002421	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2399.881	0.060395	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2484.496	0.002254	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	6966.814	0.006252	2.5 μ W/MHz	PASS
TEST CHANNEL		CH 38 (2441MHz)			
V_{normal}	30MHz to 1000MHz	511.968	0.000065	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	2377.637	0.001742	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2395.724	0.003251	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2486.085	0.003428	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	6221.553	0.004864	2.5 μ W/MHz	PASS
V_{max.}	30MHz to 1000MHz	384.050	0.000067	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	2312.102	0.001698	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2394.327	0.003170	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2487.608	0.003281	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	6975.567	0.005875	2.5 μ W/MHz	PASS
V_{min.}	30MHz to 1000MHz	384.050	0.000077	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	2355.272	0.002000	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2396.282	0.003251	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2489.116	0.003350	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	6219.052	0.004571	2.5 μ W/MHz	PASS

TEST CHANNEL		CH 77 (2480MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(μ W)	LIMIT	RESULT
V_{normal}	30MHz to 1000MHz	384.050	0.000069	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	2184.844	0.001722	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2392.499	0.002366	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.574	0.022751	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	6945.556	0.004426	2.5 μ W/MHz	PASS
V_{max.}	30MHz to 1000MHz	384.050	0.000065	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	2210.330	0.001671	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2389.107	0.002188	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.527	0.024660	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	6983.069	0.004797	2.5 μ W/MHz	PASS
V_{min.}	30MHz to 1000MHz	384.050	0.000062	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	2204.956	0.001816	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2396.101	0.002084	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.589	0.028510	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	5857.676	0.005236	2.5 μ W/MHz	PASS

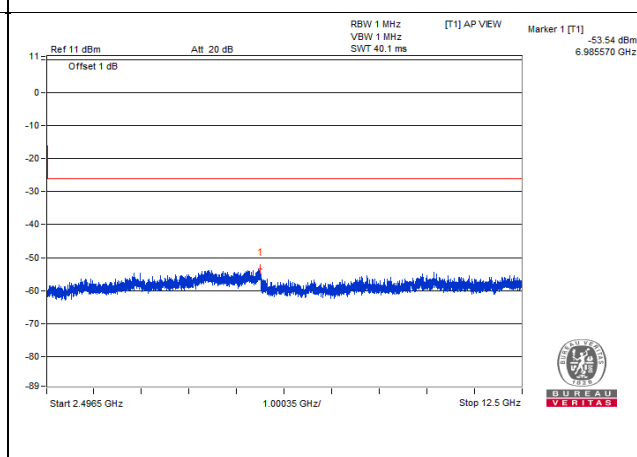
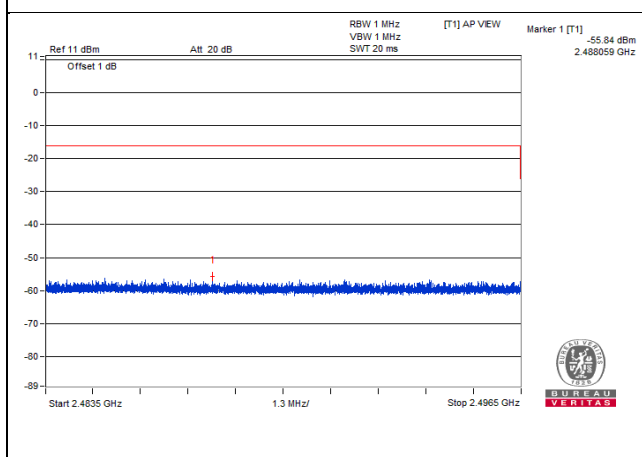
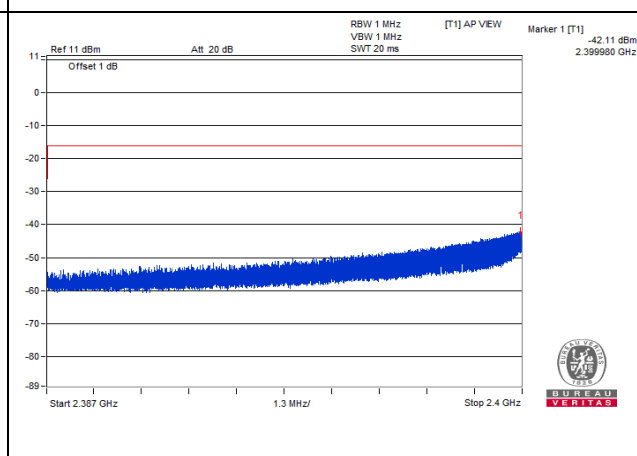
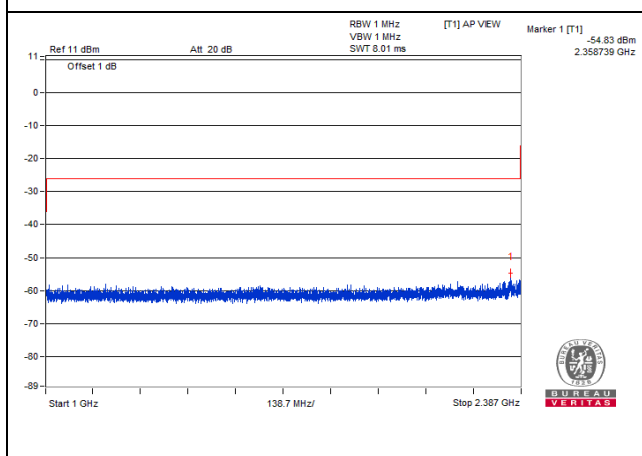
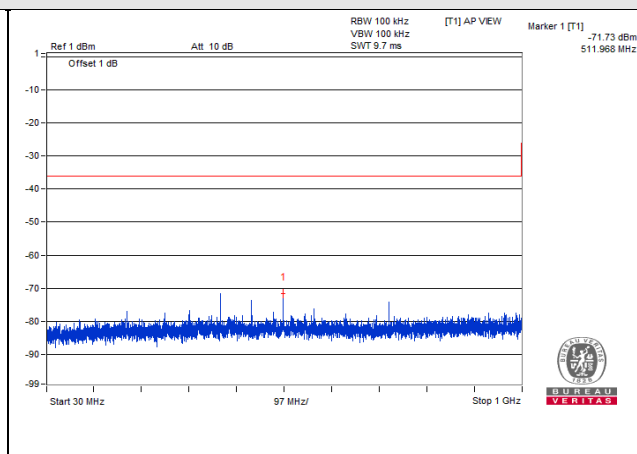
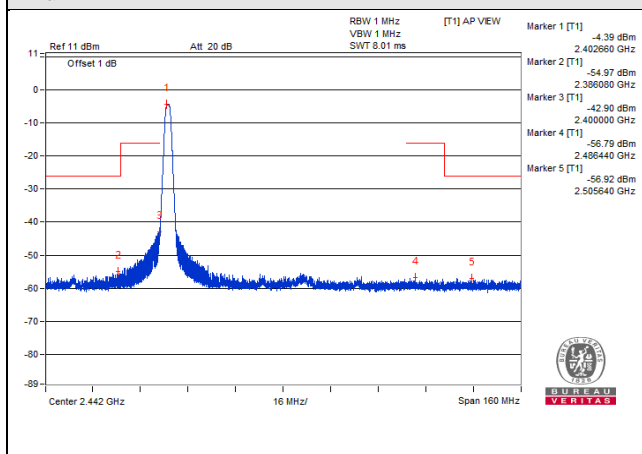
NOTE: The spectrum plots are attached on the following pages.

V_{normal}



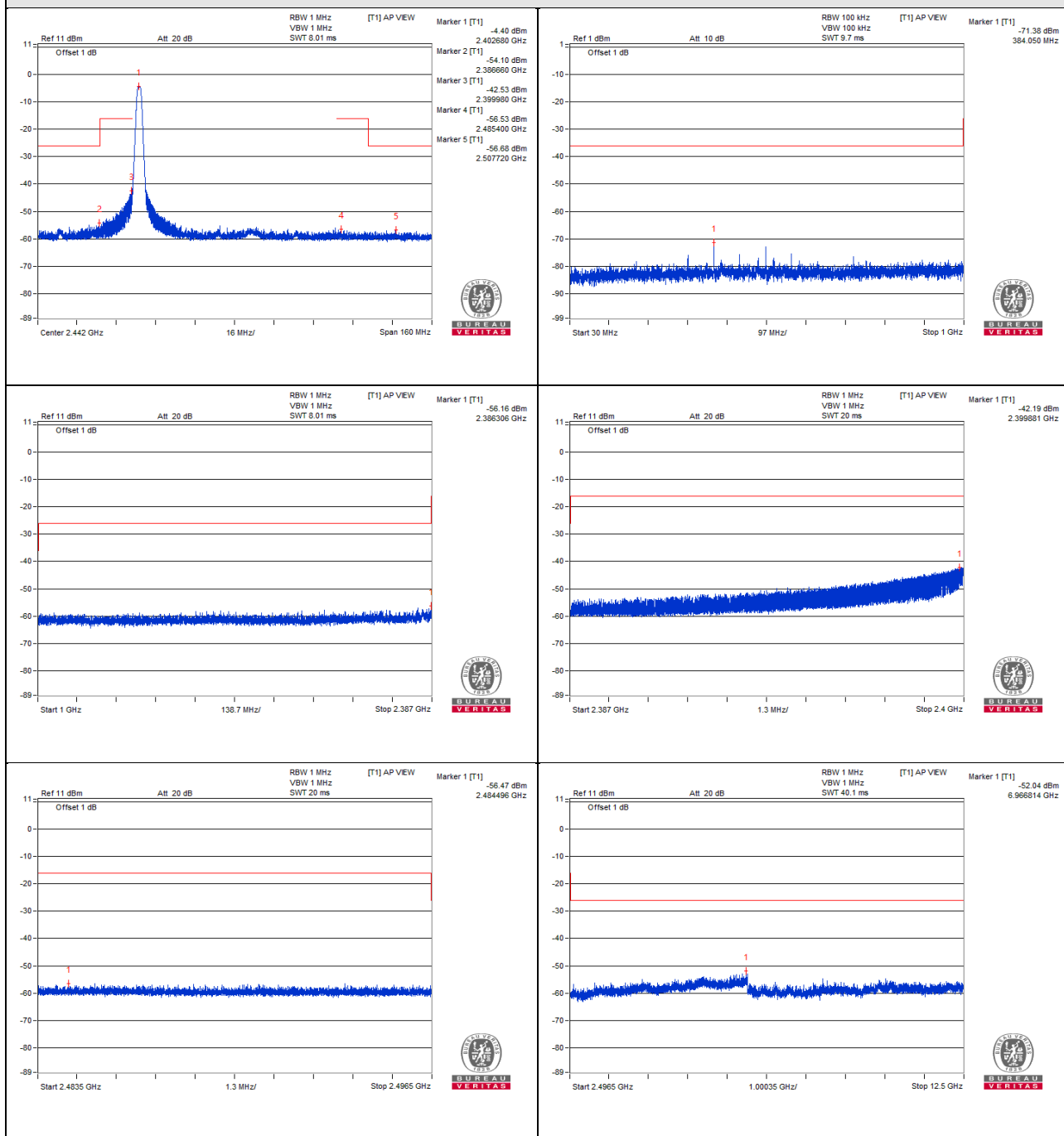
CH 0 (2403MHz)

V_{max}.



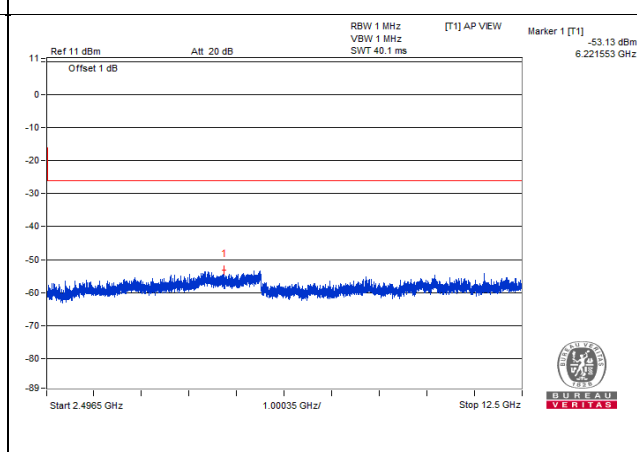
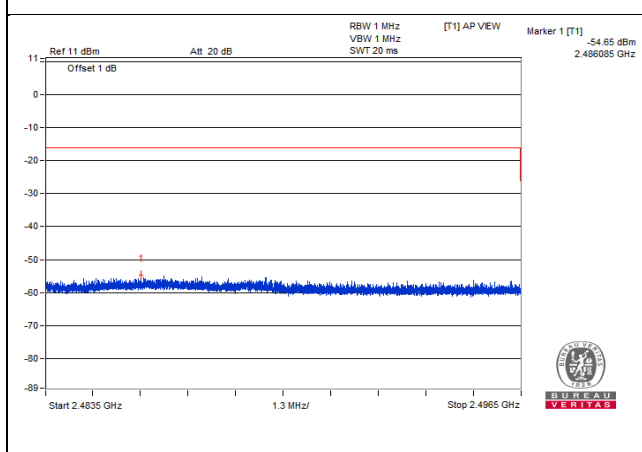
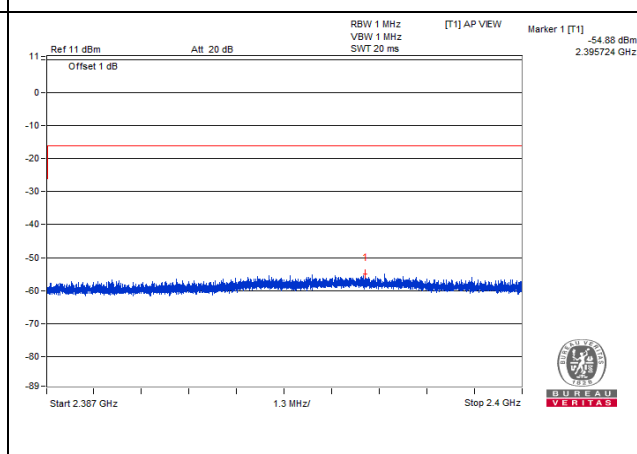
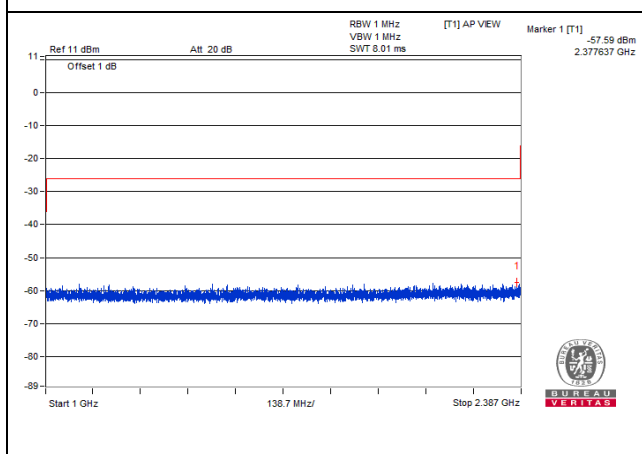
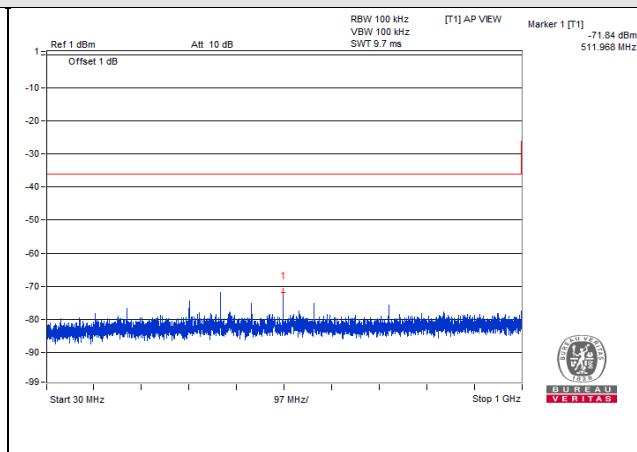
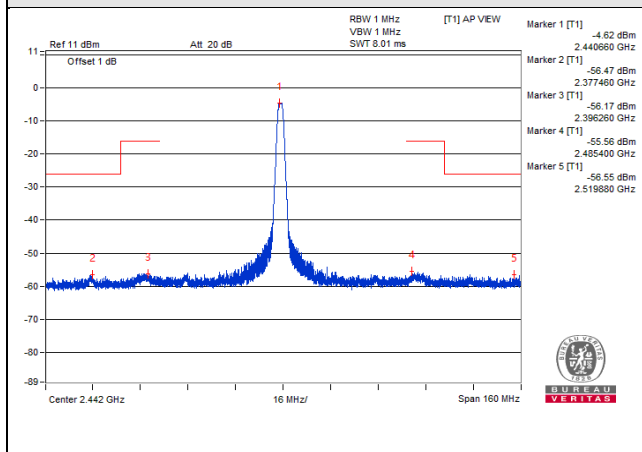
CH 0 (2403MHz)

V_{min}.



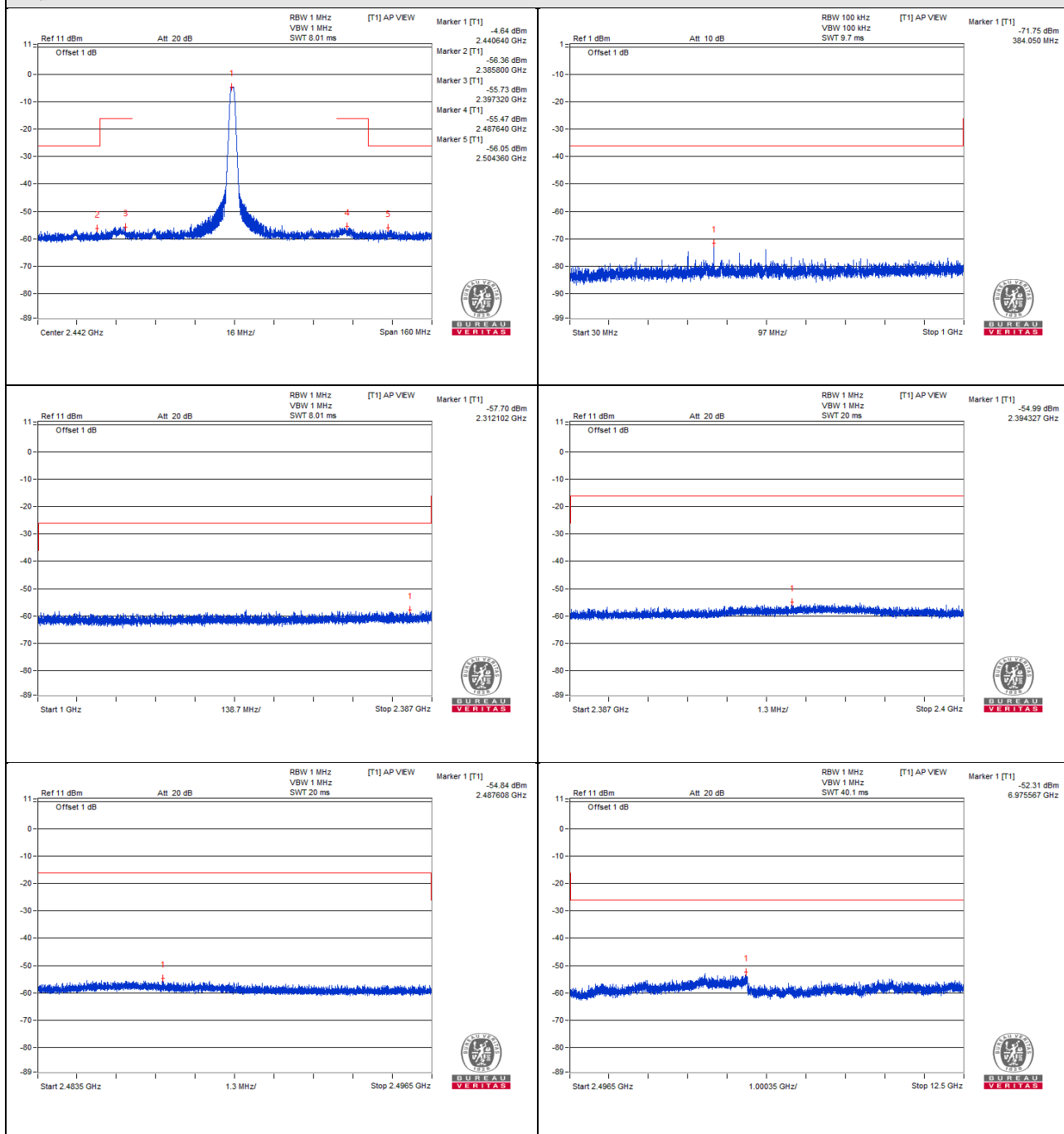
CH 0 (2403MHz)

V_{normal}



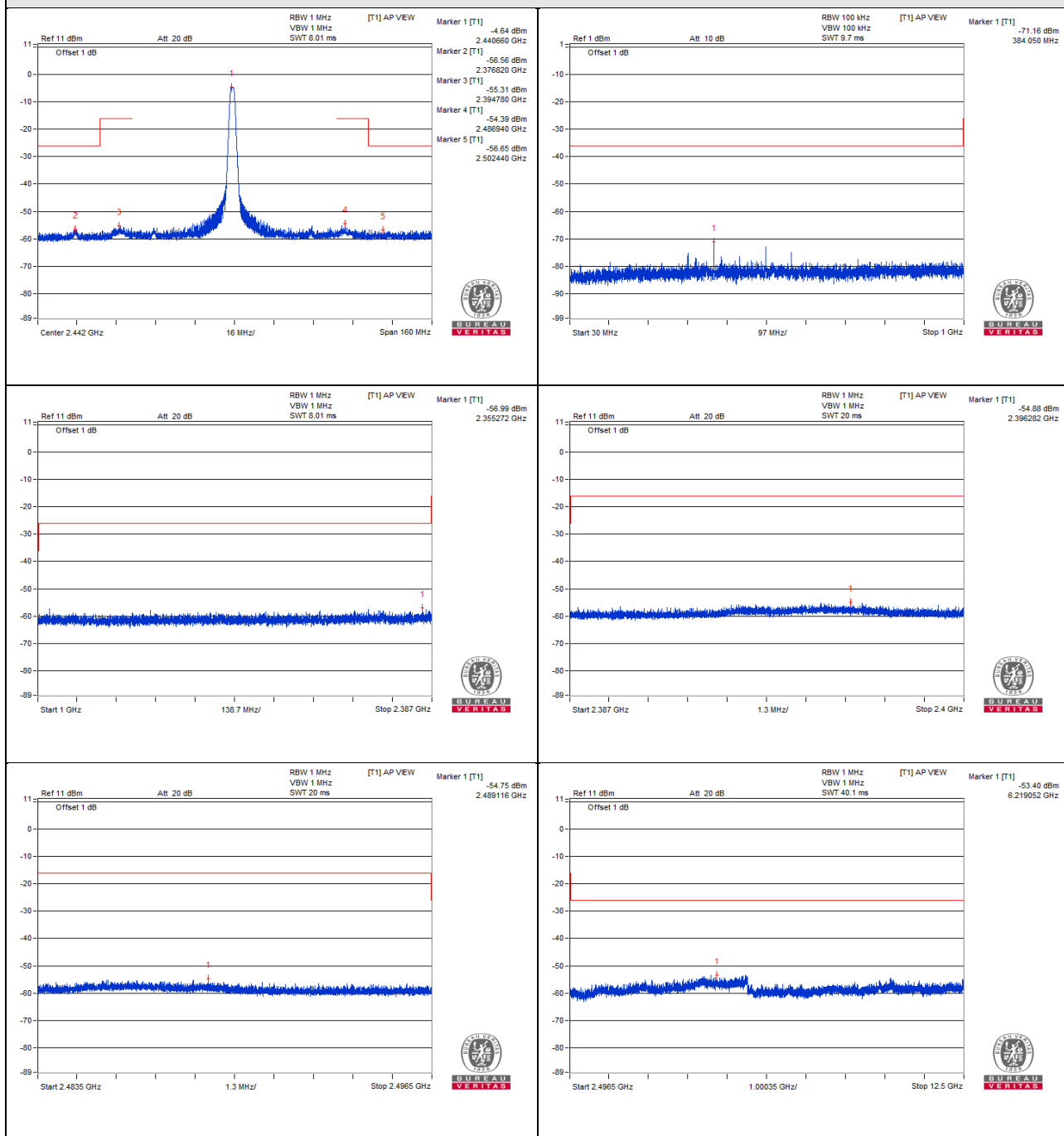
CH 38 (2441MHz)

V_{max}.



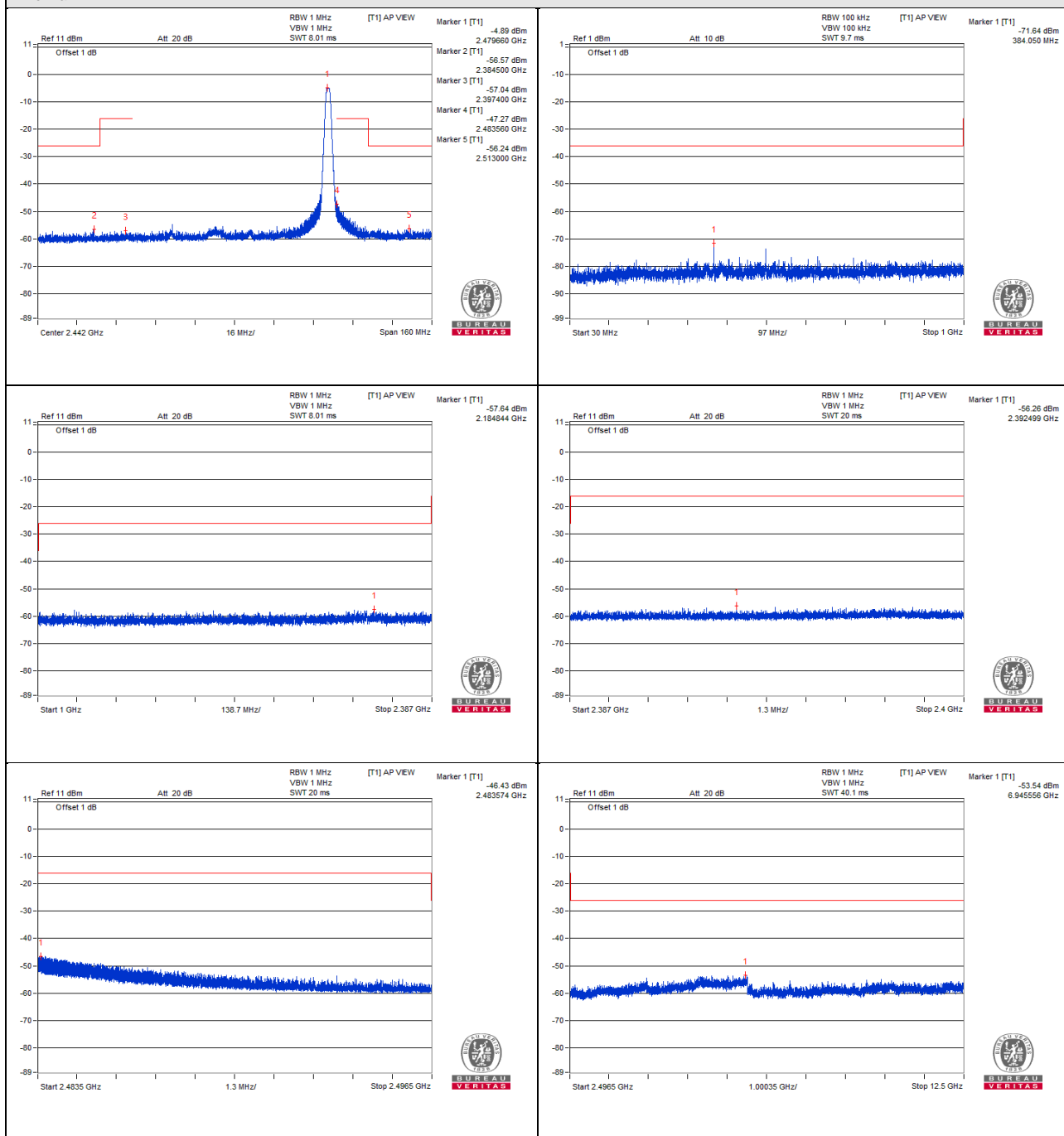
CH 38 (2441MHz)

V_{min}.



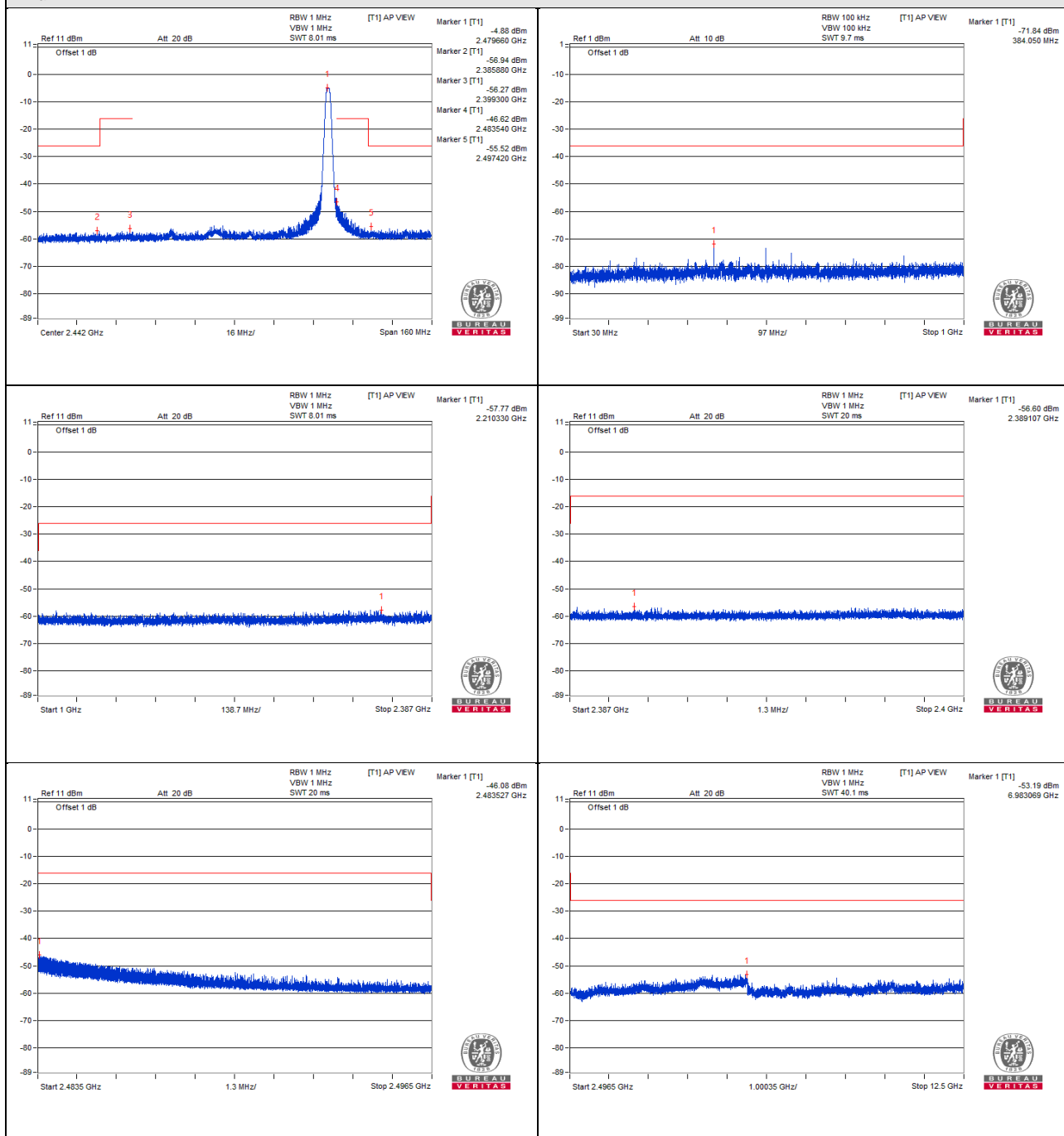
CH 38 (2441MHz)

Vnormal



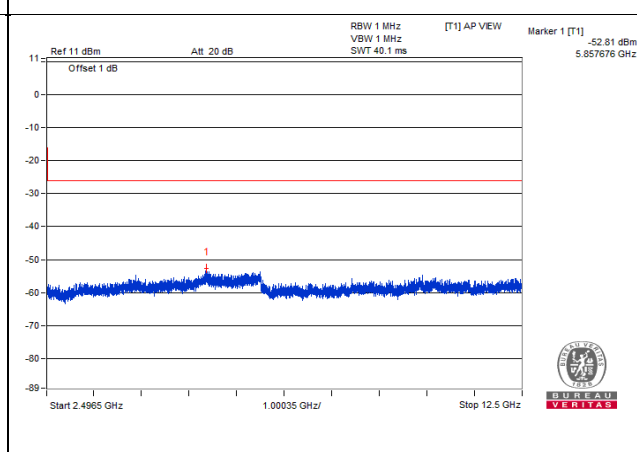
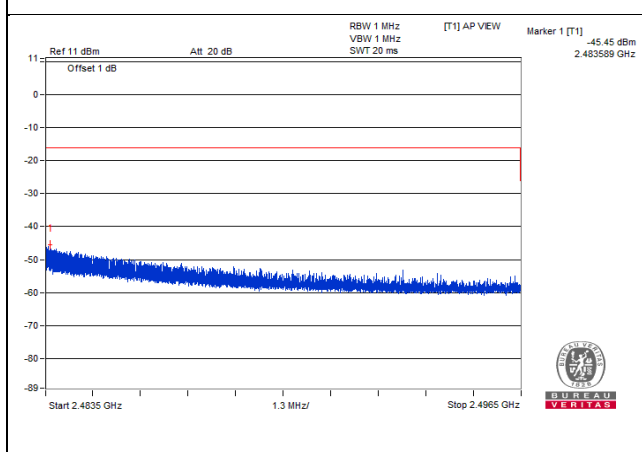
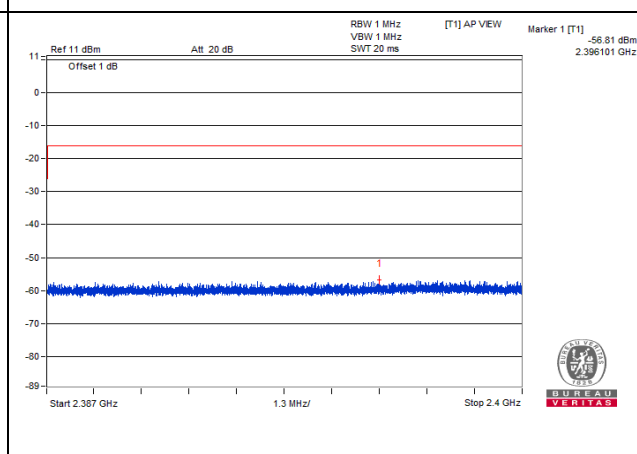
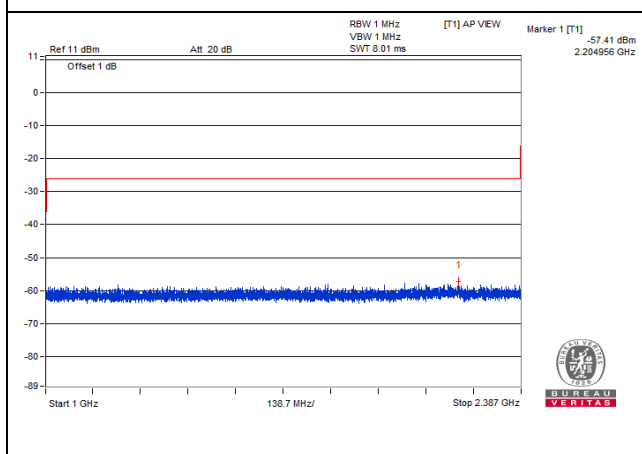
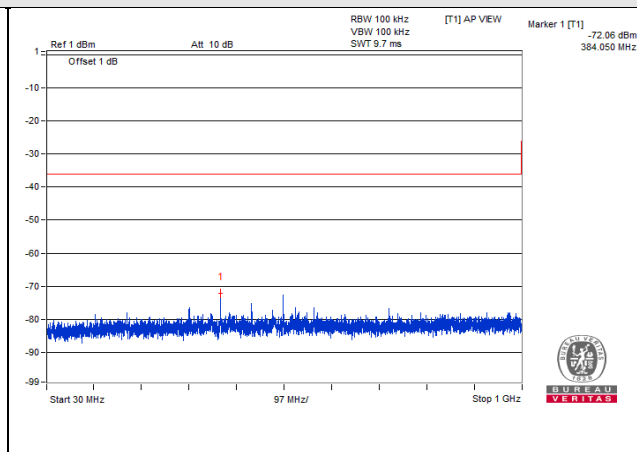
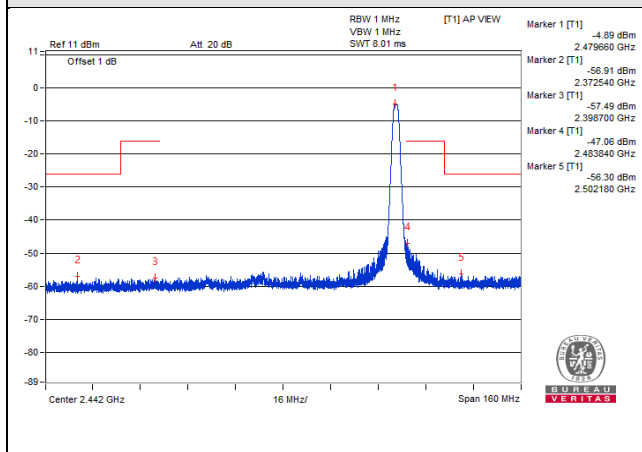
CH 77 (2480MHz)

V_{max}.



CH 77 (2480MHz)

V_{min}.



CH 77 (2480MHz)

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 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)
V_{normal}	0	2403	0.385	0.376
	38	2441	0.357	0.349
	77	2480	0.326	0.319
V_{max.}	0	2403	0.380	0.371
	38	2441	0.350	0.342
	77	2480	0.314	0.307
V_{min.}	0	2403	0.394	0.385
	38	2441	0.365	0.357
	77	2480	0.339	0.331
Max. Limit (mW)			10	-
Rated Power (mW)			0.4	-
Tolerance of Antenna Power (mW)			0.08 ~ 0.48	-
Max. EIRP Limit (mW)			-	16.368

Note: 1. Antenna gain is -0.1 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)

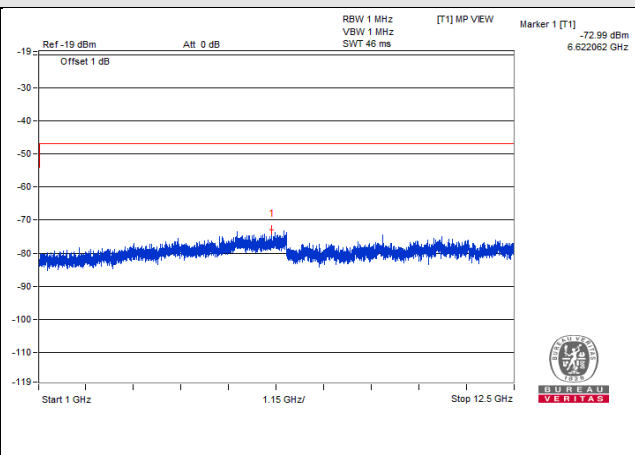
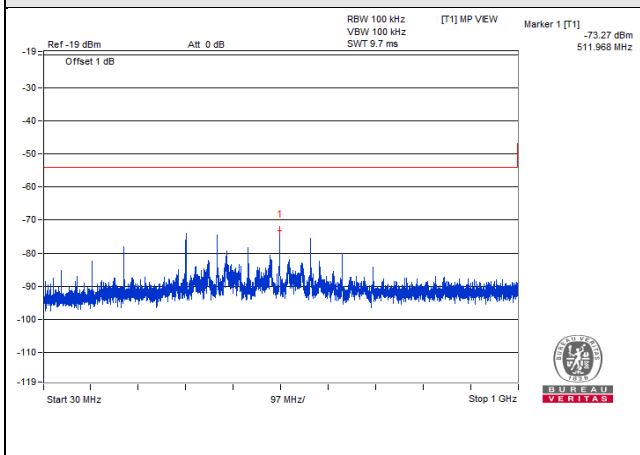
4.5.2 Test Setup



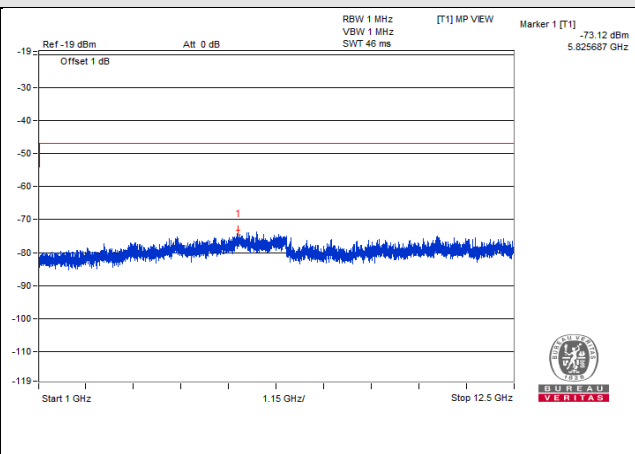
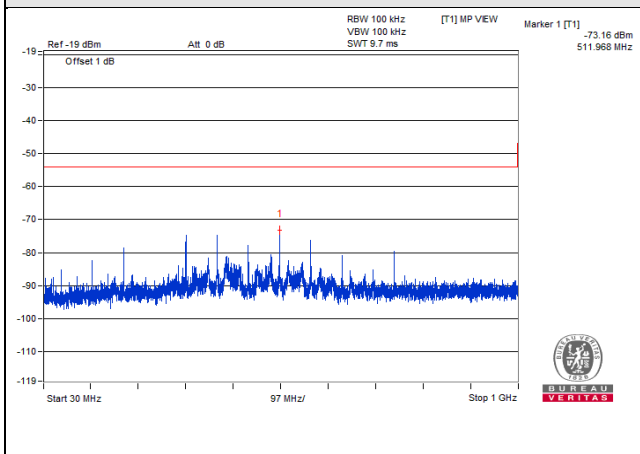
4.5.3 Test Result

TEST CHANNEL		CH 0 (2403MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30MHz to 1000MHz	511.968	0.047098	4.0	PASS
	1000MHz to 12500MHz	6622.062	0.050234	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	511.968	0.048306	4.0	PASS
	1000MHz to 12500MHz	5825.687	0.048753	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	511.968	0.052723	4.0	PASS
	1000MHz to 12500MHz	5851.562	0.043251	20.0	PASS
TEST CHANNEL		CH 38 (2441MHz)			
V_{normal}	30MHz to 1000MHz	511.968	0.049431	4.0	PASS
	1000MHz to 12500MHz	6968.500	0.039902	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	511.968	0.045920	4.0	PASS
	1000MHz to 12500MHz	5929.187	0.043954	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	511.968	0.048195	4.0	PASS
	1000MHz to 12500MHz	6982.875	0.059020	20.0	PASS
TEST CHANNEL		CH 77 (2480MHz)			
V_{normal}	30MHz to 1000MHz	511.968	0.051168	4.0	PASS
	1000MHz to 12500MHz	5821.375	0.058884	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	511.968	0.040272	4.0	PASS
	1000MHz to 12500MHz	5842.937	0.046238	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	511.968	0.043551	4.0	PASS
	1000MHz to 12500MHz	6094.500	0.054576	20.0	PASS

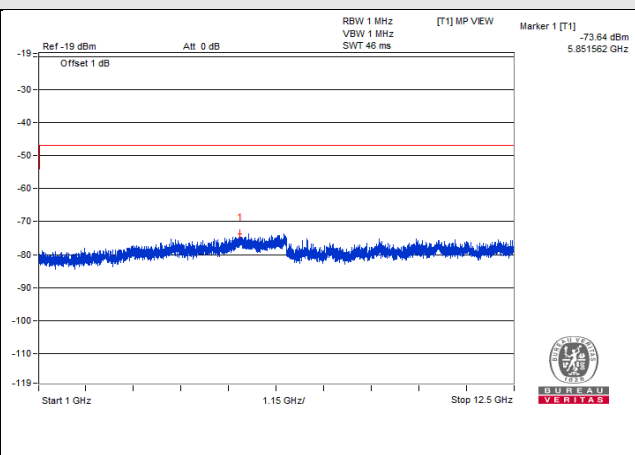
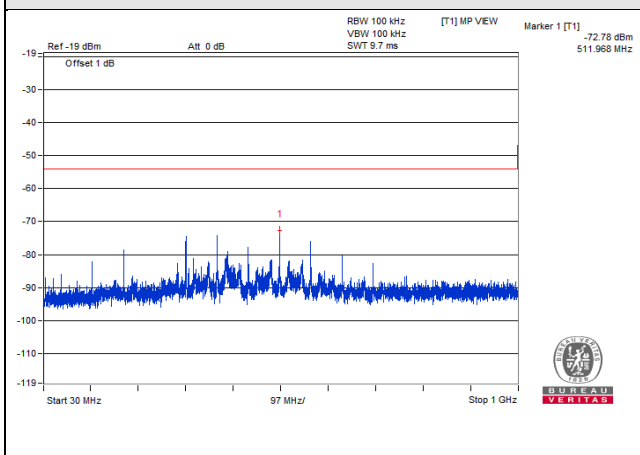
V_{normal}



V_{max.}

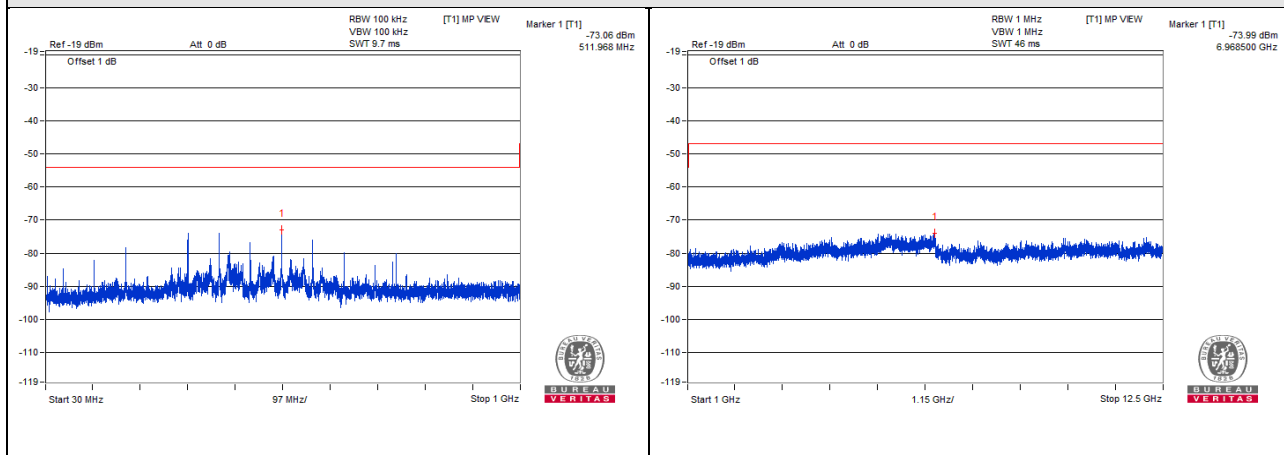


V_{min.}

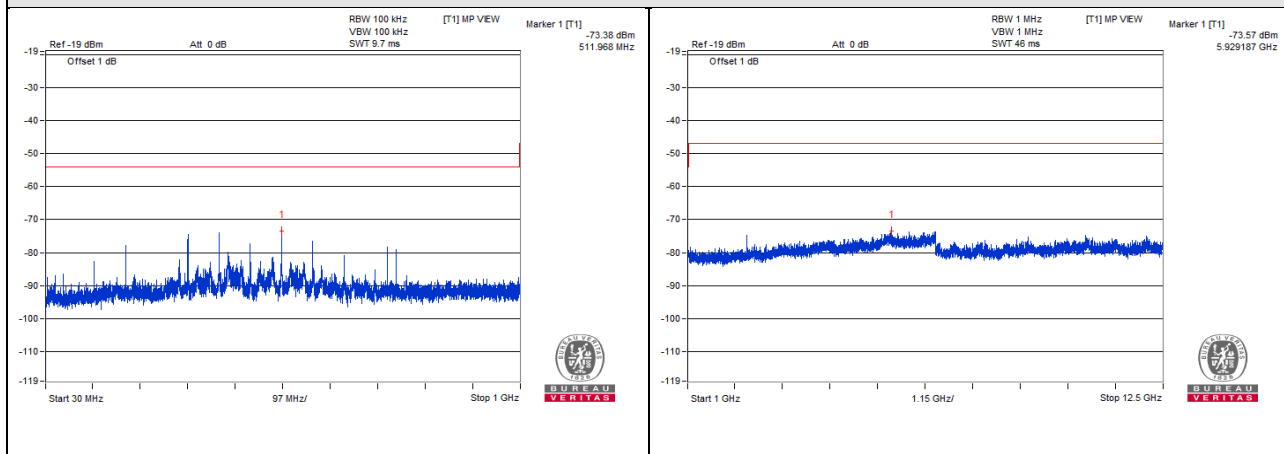


CH 0 (2403MHz)

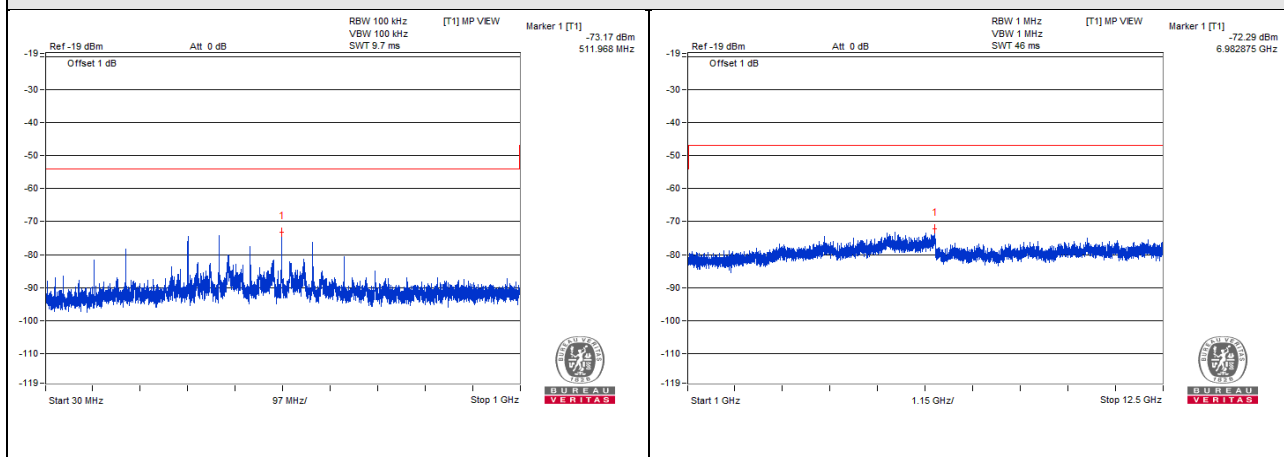
V_{normal}



V_{max.}

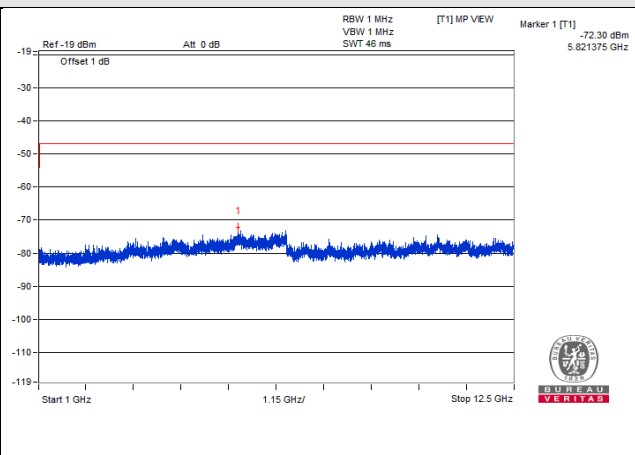
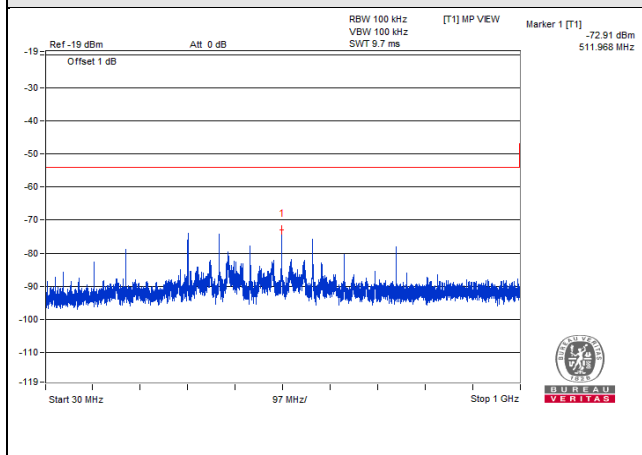


V_{min.}

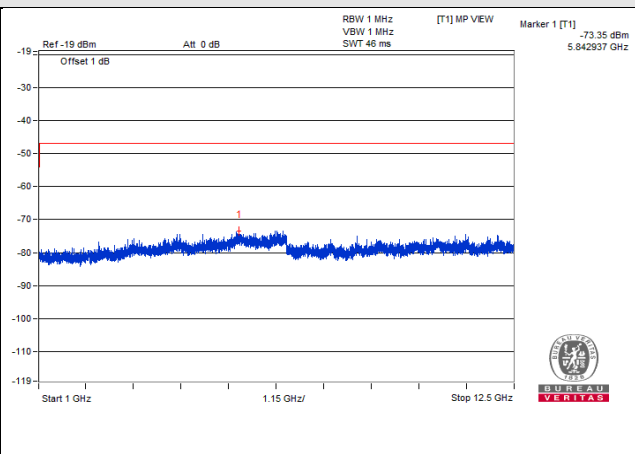
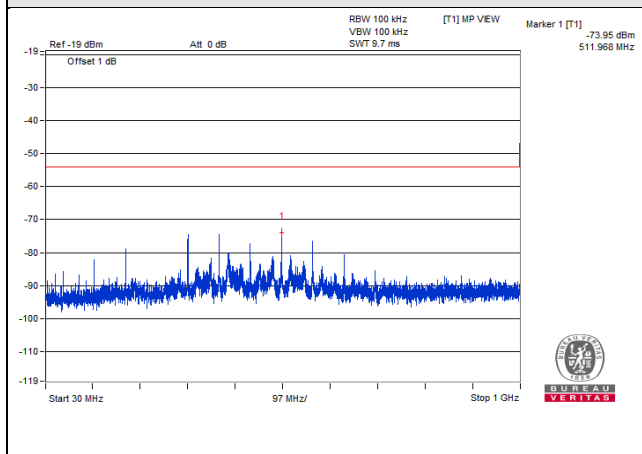


CH 38 (2441MHz)

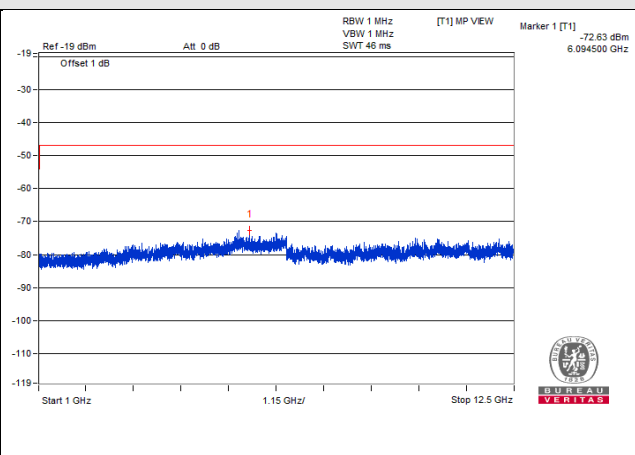
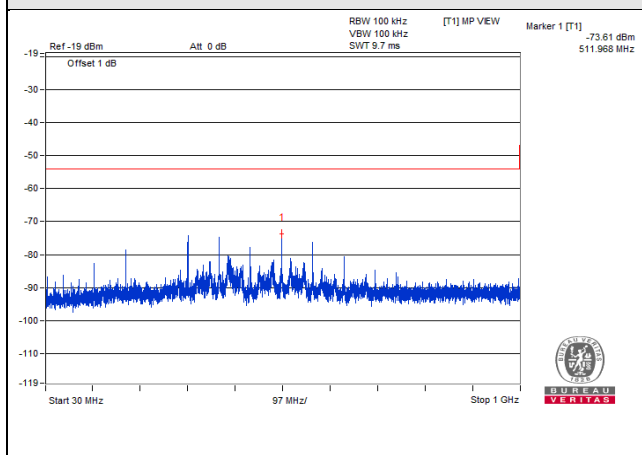
V_{normal}



V_{max.}



V_{min.}



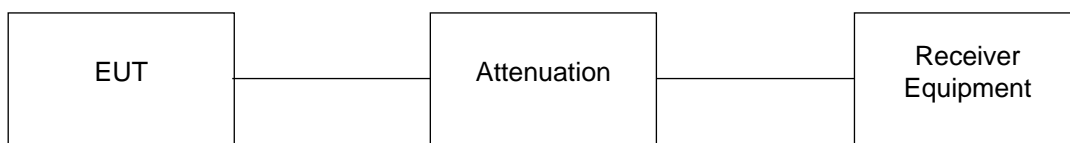
CH 77 (2480MHz)

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.

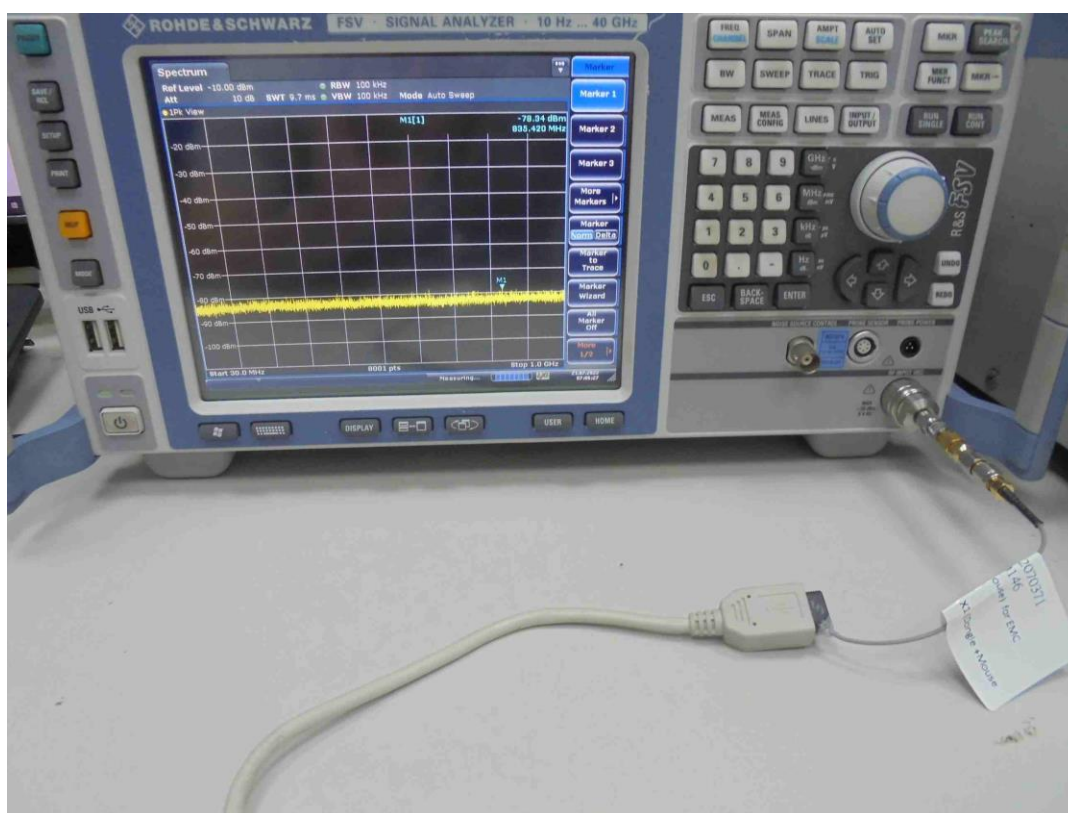
4.6.2 Test Setup



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.

If you have any comments, please feel free to contact us at the following:

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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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