

Radio Test Report

Report No.: RJC Gee-WTW-P22050527-1

Test Model: RDA0045

Received Date: 2022/5/25

Test Date: 2022/7/11

Issued Date: 2022/7/29

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
RJCGEE-WTW-P22050527-1	Original release.	2022/7/29

1 Certificate of Conformity

Product: Wireless Headset

Brand: Corsair

Test Model: RDA0045

Sample Status: Engineering sample

Applicant: Corsair Memory, Inc.

Test Date: 2022/7/11

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: 2022/7/29

Annie Chang / Senior Specialist

Approved by :

Jeremy Lin

Date: 2022/7/29

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)
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)	3.4	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	2021/7/23	2022/7/22	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	Wireless Headset
Brand	Corsair
Test Model	RDA0045
Status of EUT	Engineering sample
Nominal Voltage	3.7Vdc from battery or 5Vdc from USB Type C port
Modulation Type	GFSK
Operating Frequency	2402MHz ~ 2480MHz
Number of Channel	79
Rated RF Output Power	6mW
Conducted RF Output Power	5.781mW
Radiated RF Output Power	9.376mW
Antenna Type	PIFA Antenna with 2.1dBi gain
Antenna Connector	N/A
Accessory Device	N/A
Data Cable Supplied	Shielded USB type C cable (1.8m)

Note:

1. There are Bluetooth technology and SRD GFSK technology used for the EUT.
2. Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.
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

79 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	78	2480
19	2421	39	2441	59	2461		

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	55
39	55
78	55

3.3 Test Conditions

Test Conditions		Voltage (Vdc)
V_{normal}	-	3.7
$V_{max.}$	+10%	4.07
$V_{min.}$	-10%	3.33

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 housing consists of two plastic parts, affirmed together by means of deforming. Separating the two parts (i.e operating of the housing) was only possible by means of brute force.

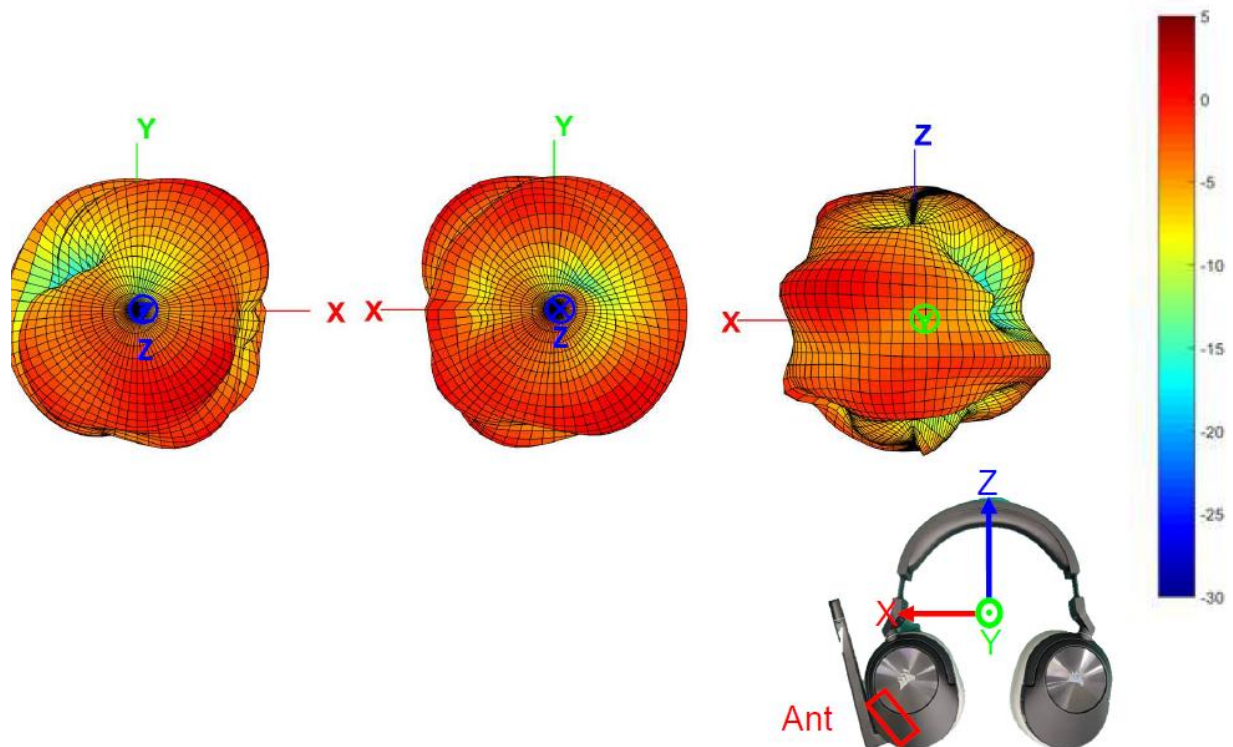
3.5 Antenna Specifications

3.5.1 Antenna Gain

Antenna Type	Max. Gain (dBi)
PIFA	2.1

3.5.2 Antenna Pattern

3D Gain Pattern (Radiation Pattern @ 2445 MHz) (unit: dBi)



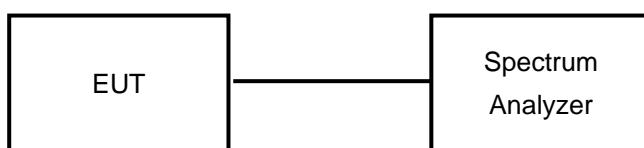
4 Test Results

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	2401.998040	-0.815	2401.998040	-0.815	2401.998000	-0.832
39	2441	2440.998000	-0.819	2440.998000	-0.819	2440.998000	-0.819
78	2480	2479.998320	-0.677	2479.998200	-0.725	2479.998160	-0.741

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

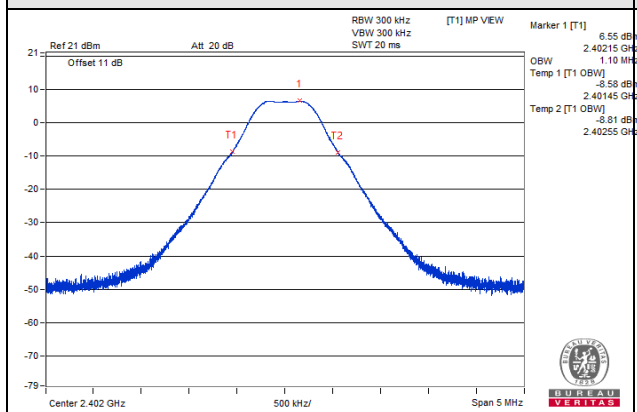


4.2.3 Test Results

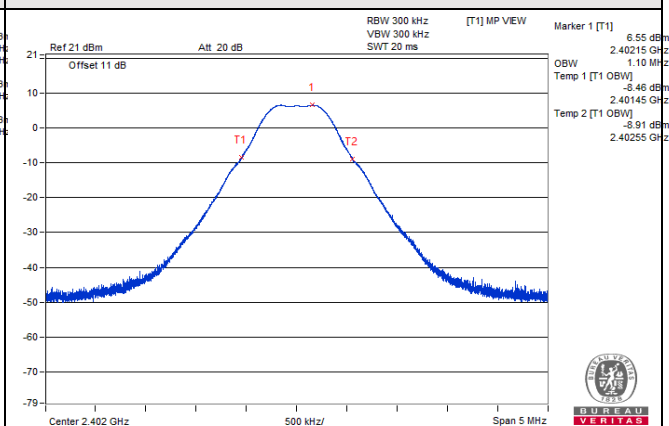
Channel	Frequency (MHz)	V_{normal}	$V_{max.}$	$V_{min.}$
		Occupied bandwidth (MHz)	Occupied bandwidth (MHz)	Occupied bandwidth (MHz)
0	2402	1.10	1.10	1.10
39	2441	1.10	1.10	1.10
78	2480	1.10	1.10	1.10

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

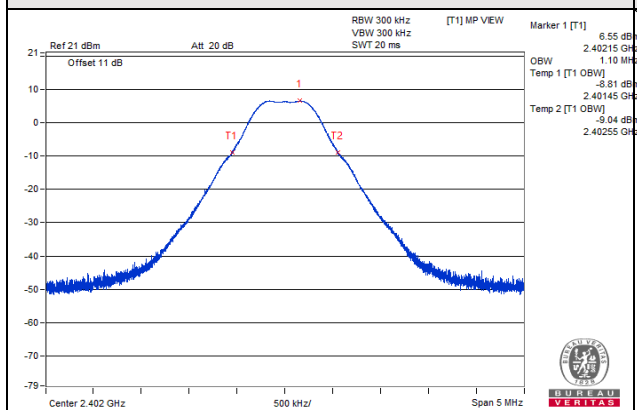
V_{normal}



V_{max}

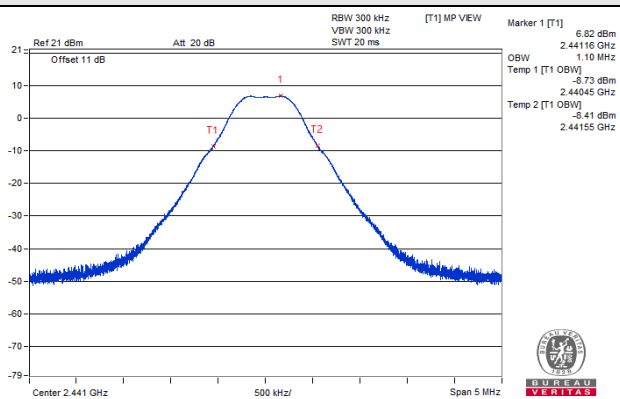


V_{min}

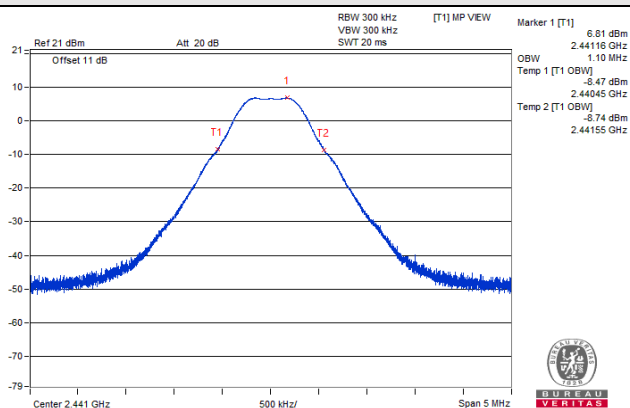


CH 0 (2402MHz)

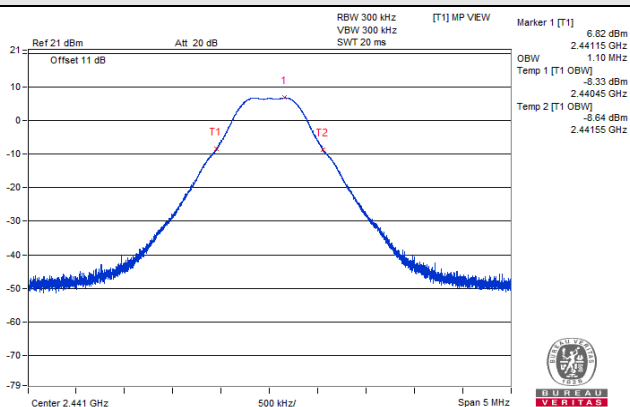
V_{normal}



V_{max.}

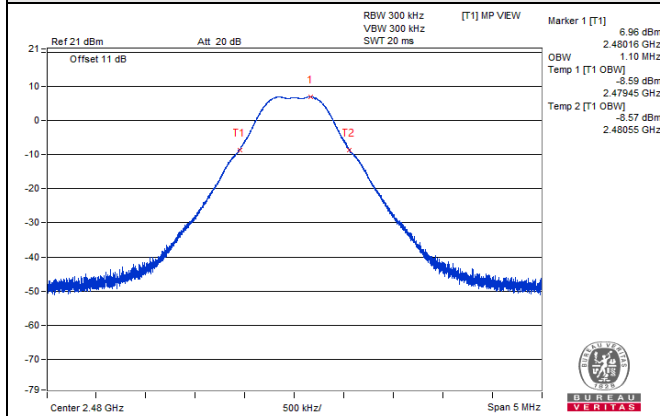


V_{min.}

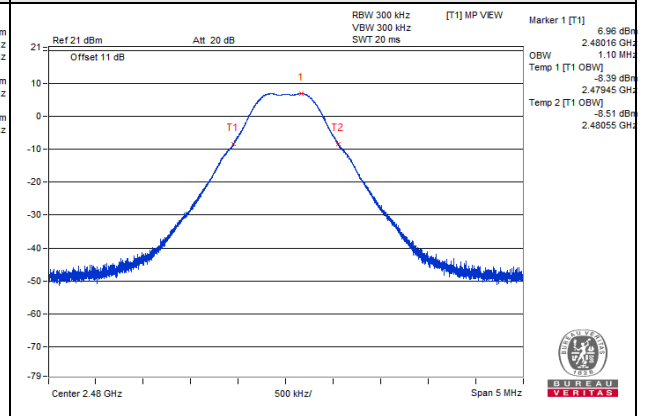


CH 39 (2441MHz)

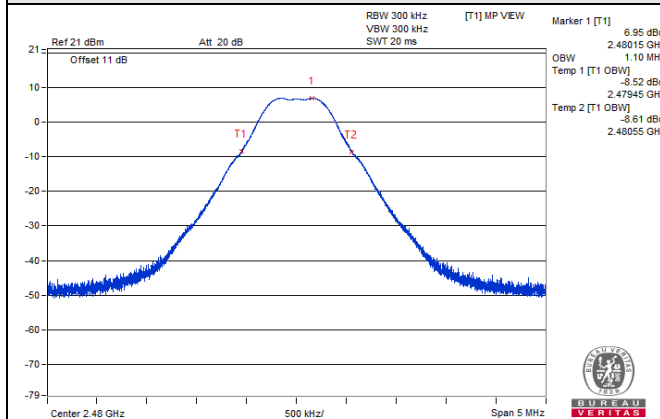
V_{normal}



V_{max.}



V_{min.}



CH 78 (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



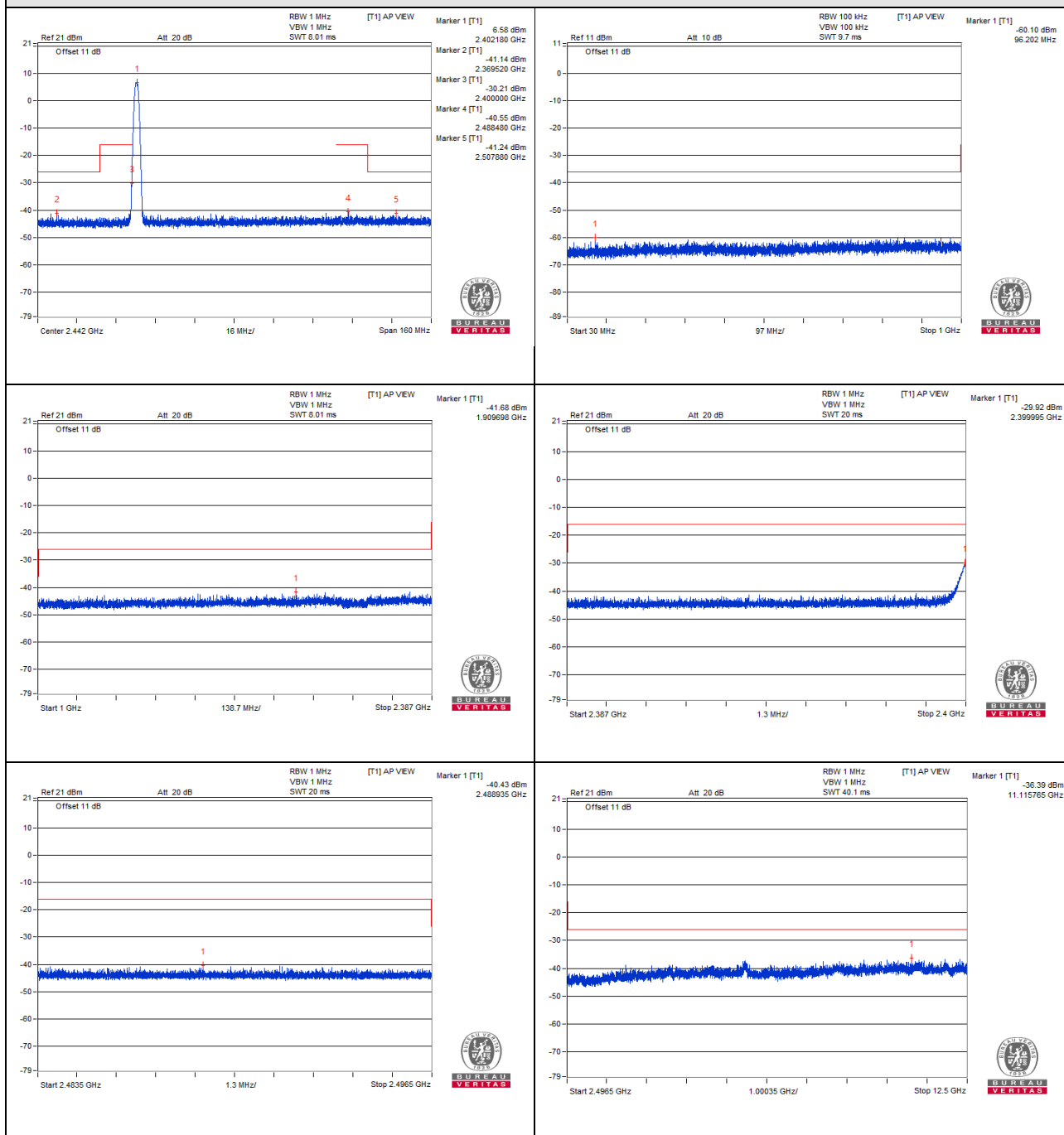
4.3.3 Test Results

TEST CHANNEL		CH 0 (2402MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(μ W)	LIMIT	RESULT
V_{normal}	30MHz to 1000MHz	96.202	0.000977	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	1909.698	0.067920	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2399.995	1.018591	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2488.935	0.090573	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	11115.765	0.229615	2.5 μ W/MHz	PASS
V_{max.}	30MHz to 1000MHz	748.285	0.001358	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	2286.095	0.068391	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2399.991	1.054387	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2495.702	0.096605	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	11392.112	0.243781	2.5 μ W/MHz	PASS
V_{min.}	30MHz to 1000MHz	809.031	0.001253	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	2209.637	0.070469	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2400.000	1.000000	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2484.348	0.083176	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	11078.252	0.237137	2.5 μ W/MHz	PASS
TEST CHANNEL		CH 39 (2441MHz)			
V_{normal}	30MHz to 1000MHz	899.726	0.001000	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	1526.019	0.080168	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2387.159	0.081096	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2484.681	0.109396	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	6971.815	0.232809	2.5 μ W/MHz	PASS
V_{max.}	30MHz to 1000MHz	923.248	0.000977	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	2343.309	0.060674	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2388.933	0.072946	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2488.539	0.086099	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	10794.403	0.258821	2.5 μ W/MHz	PASS
V_{min.}	30MHz to 1000MHz	345.977	0.001178	0.25 μ W/100kHz	PASS
	1000MHz to 2387MHz	1651.890	0.074473	2.5 μ W/MHz	PASS
	2387MHz to 2400MHz	2396.529	0.069343	25 μ W/MHz	PASS
	2483.5MHz to 2496.5MHz	2491.919	0.093756	25 μ W/MHz	PASS
	2496.5MHz to 12500MHz	9251.363	0.219786	2.5 μ W/MHz	PASS

TEST CHANNEL		CH 78 (2480MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT	RESULT
V_{normal}	30MHz to 1000MHz	896.088	0.001014	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2273.266	0.061660	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2393.116	0.076736	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2493.622	0.086696	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	11264.567	0.219280	2.5 uW/MHz	PASS
V_{max.}	30MHz to 1000MHz	888.086	0.001146	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	1514.056	0.069183	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2393.348	0.074645	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2487.835	0.116950	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	6963.062	0.212814	2.5 uW/MHz	PASS
V_{min.}	30MHz to 1000MHz	810.122	0.001069	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2351.284	0.063680	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2395.396	0.072778	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2492.346	0.089536	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	10643.100	0.211836	2.5 uW/MHz	PASS

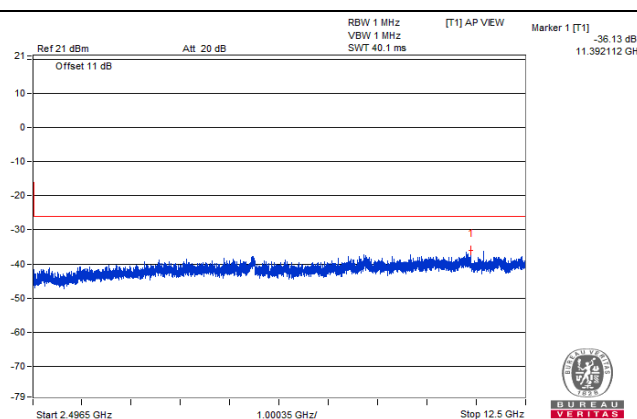
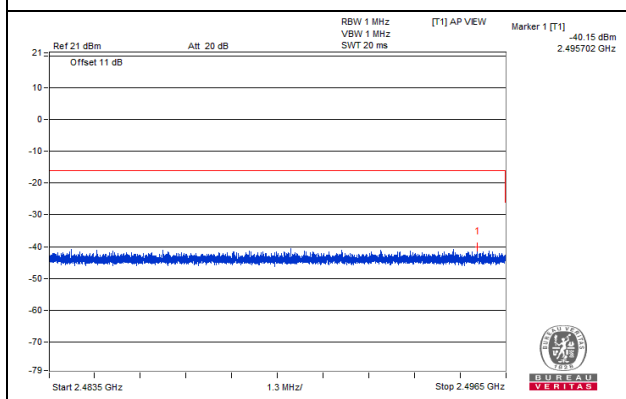
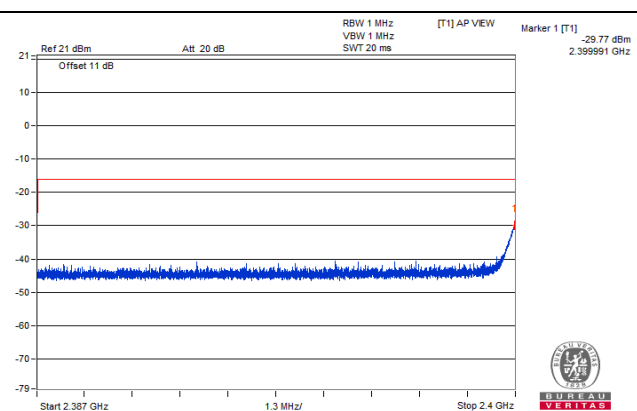
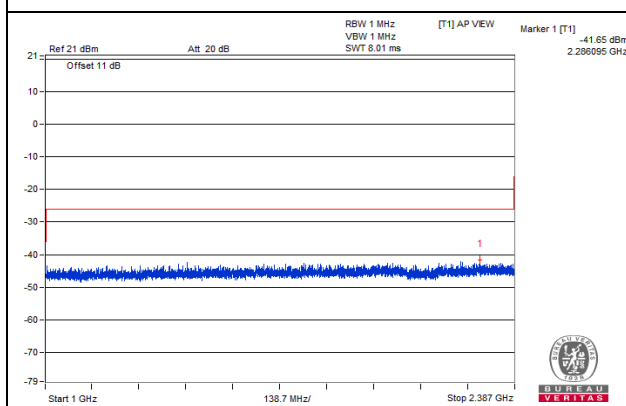
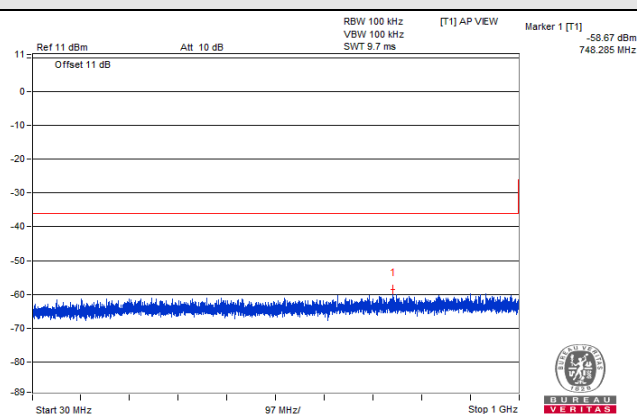
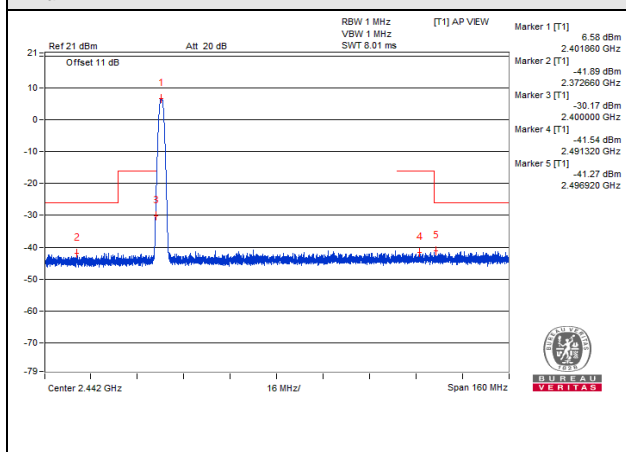
NOTE: The spectrum plots are attached on the following pages.

Vnormal



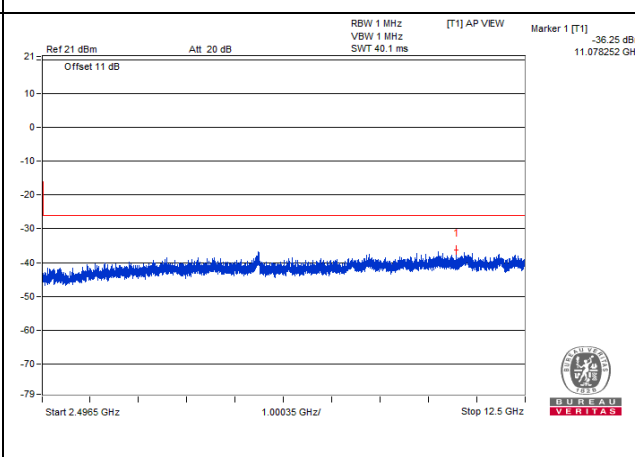
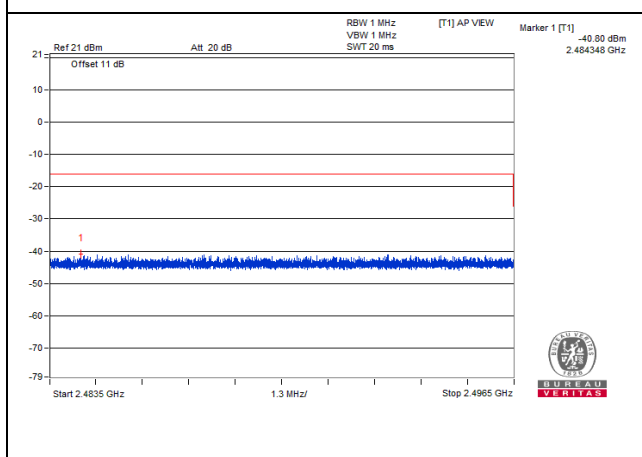
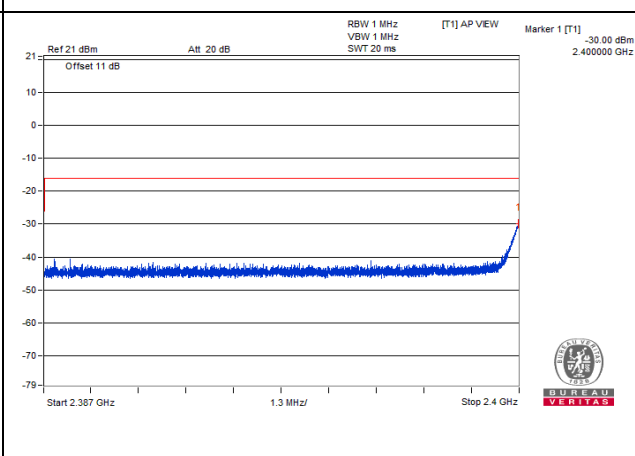
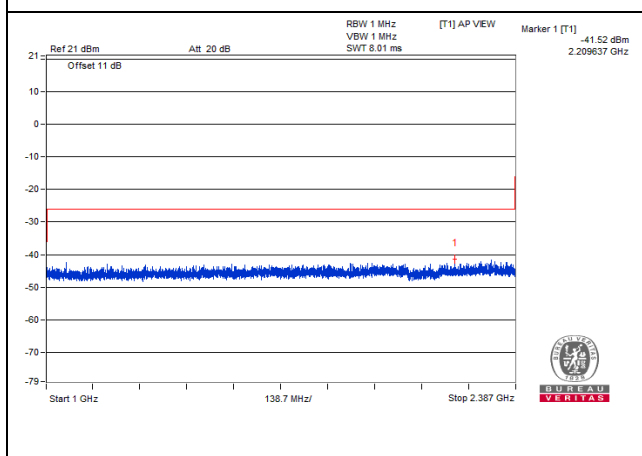
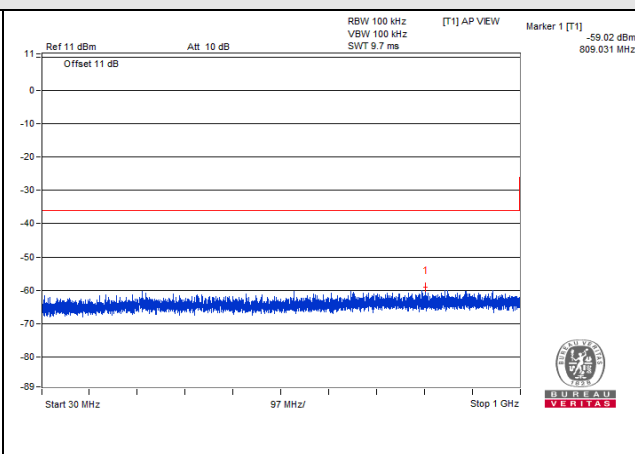
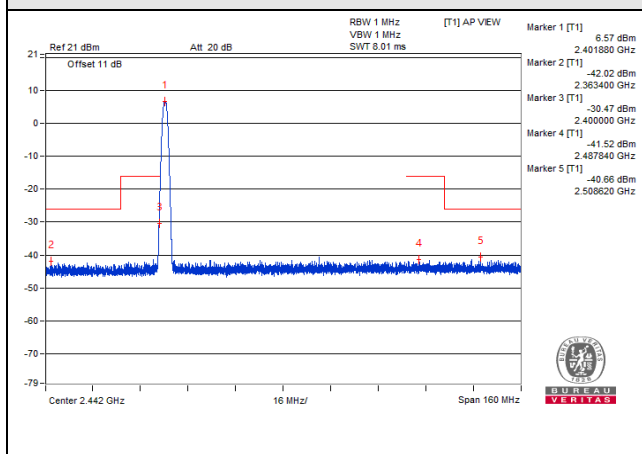
CH 0 (2402MHz)

V_{max}.



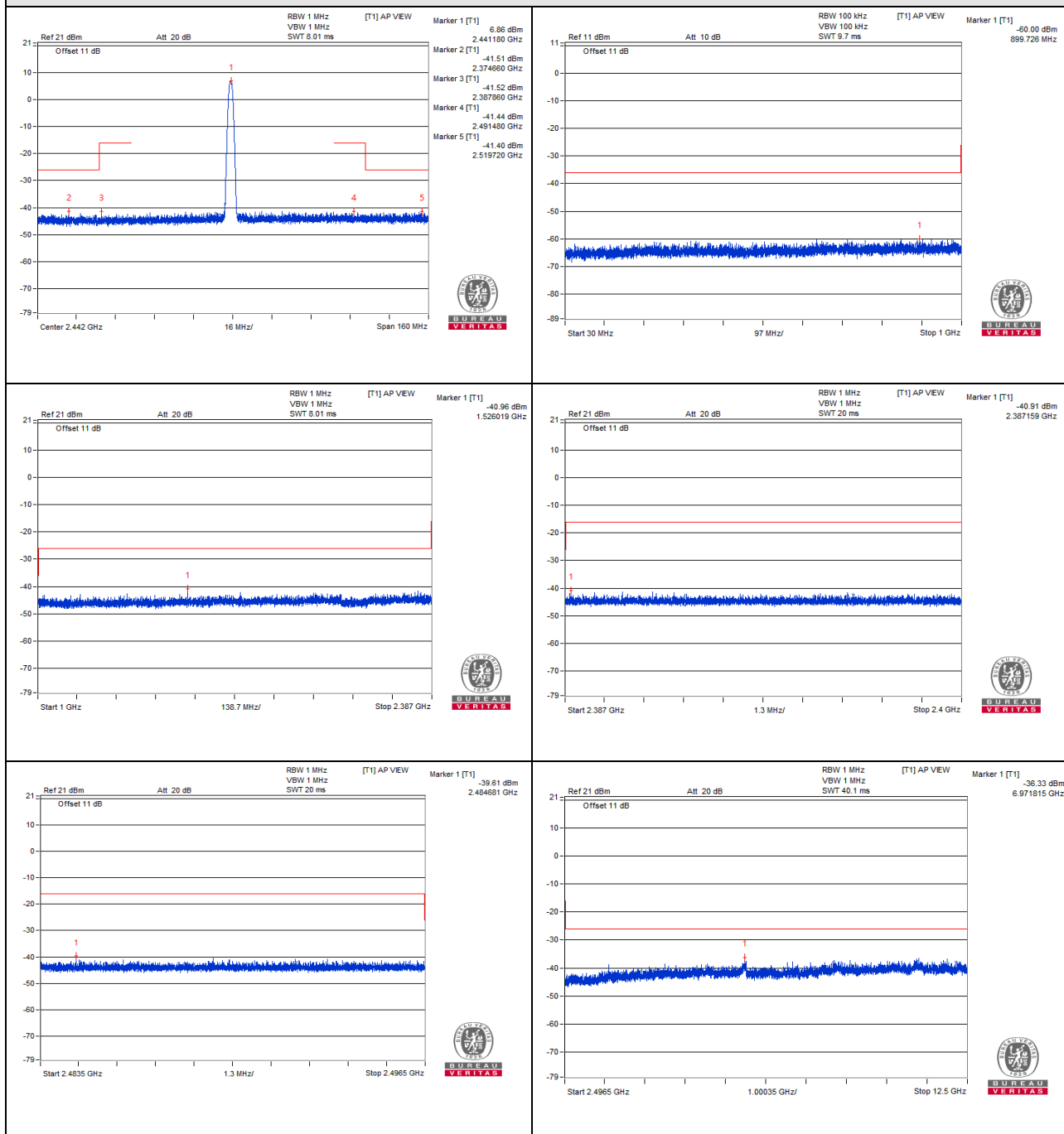
CH 0 (2402MHz)

V_{min}.



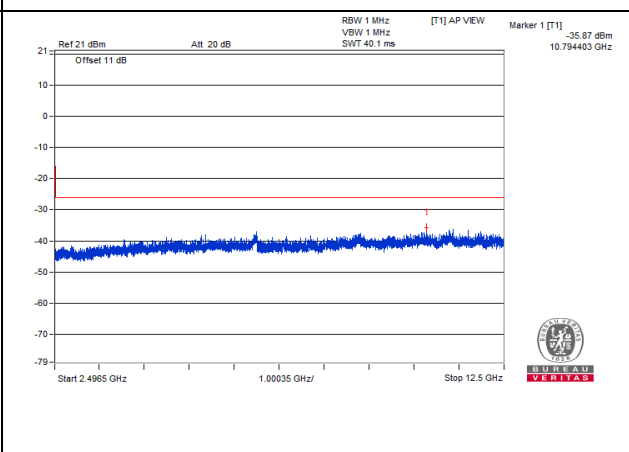
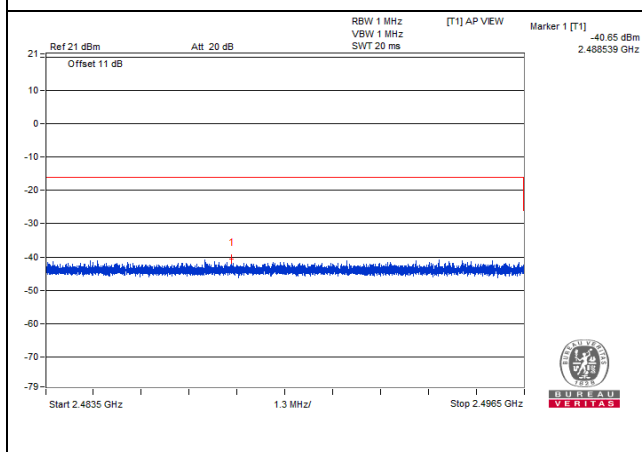
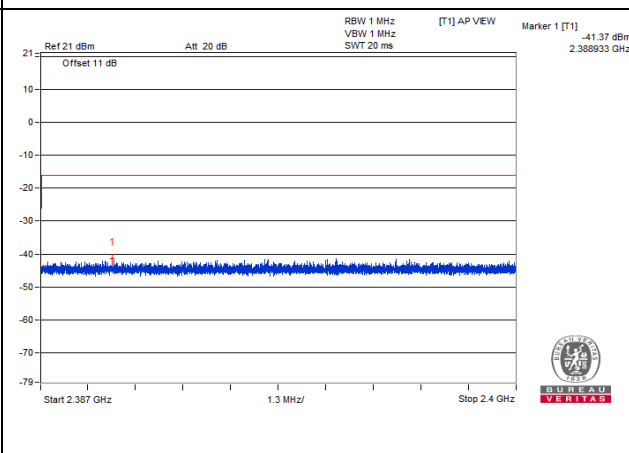
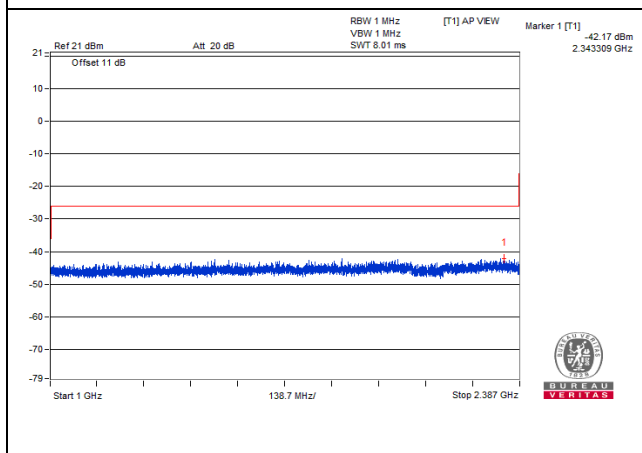
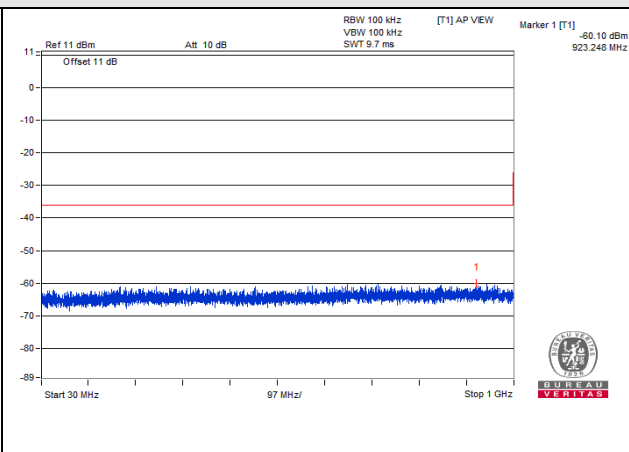
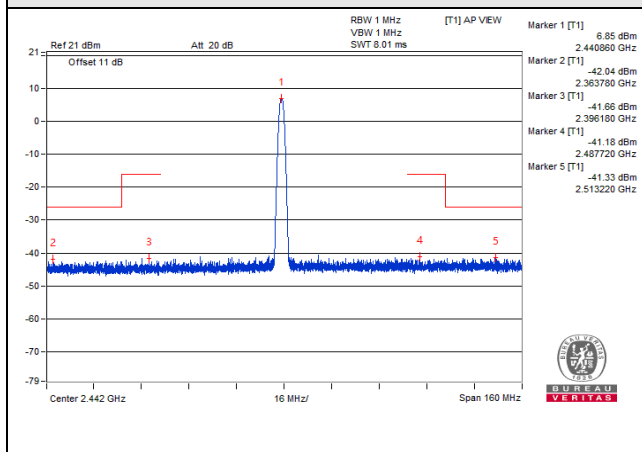
CH 0 (2402MHz)

V_{normal}



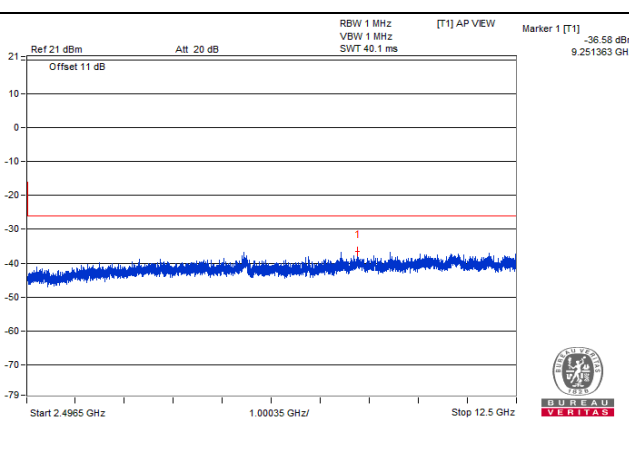
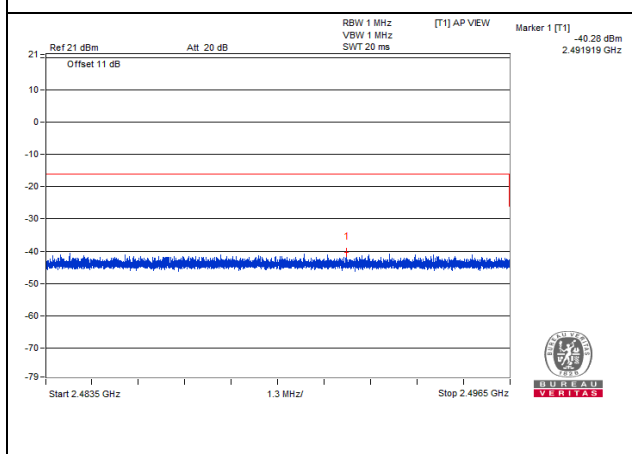
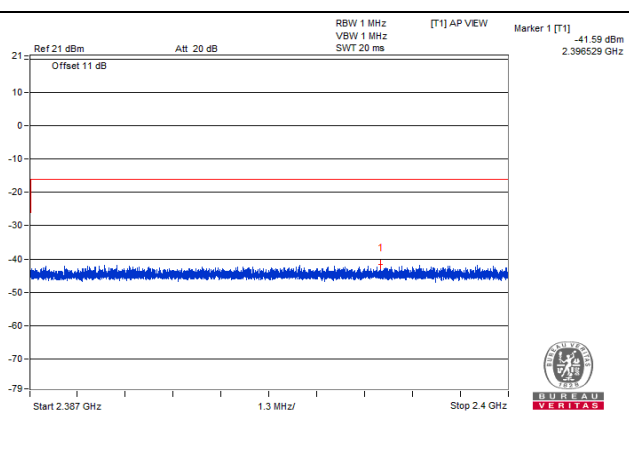
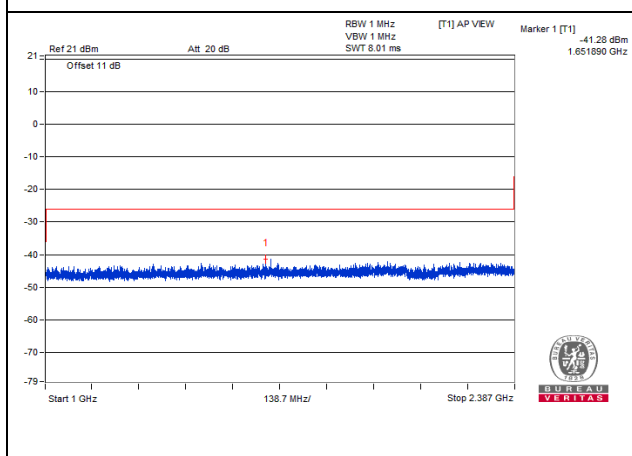
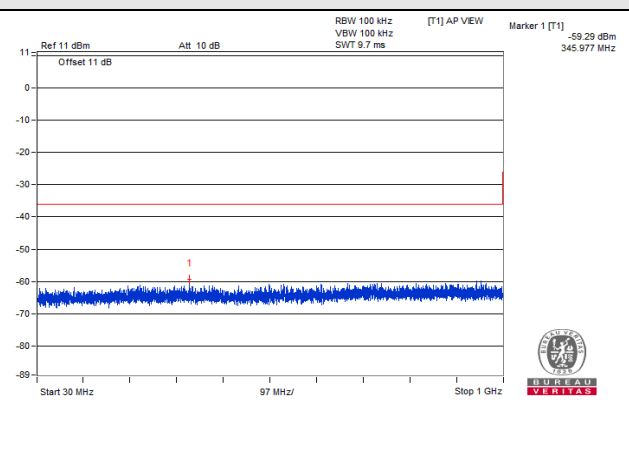
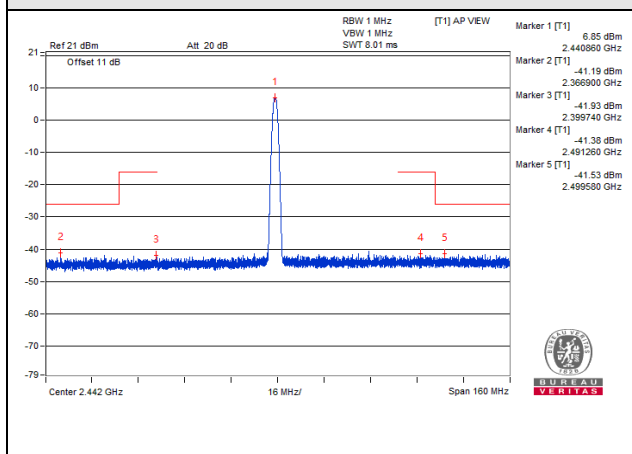
CH 39 (2441MHz)

V_{max}.



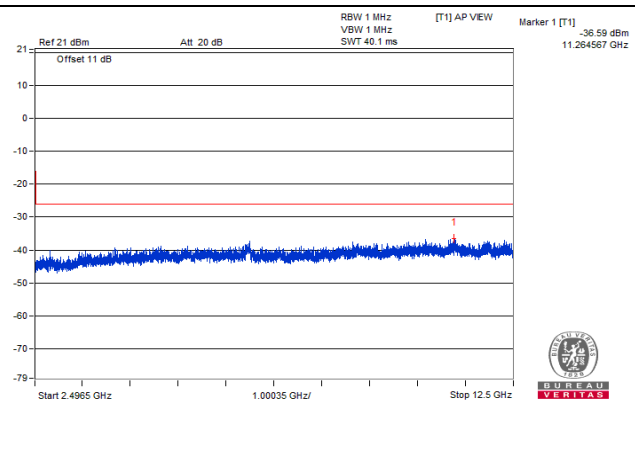
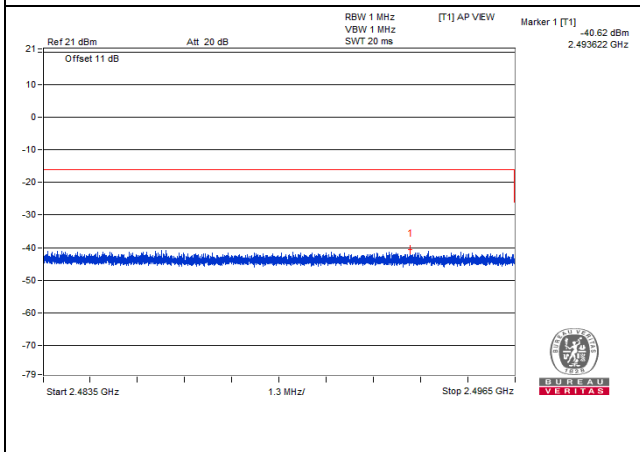
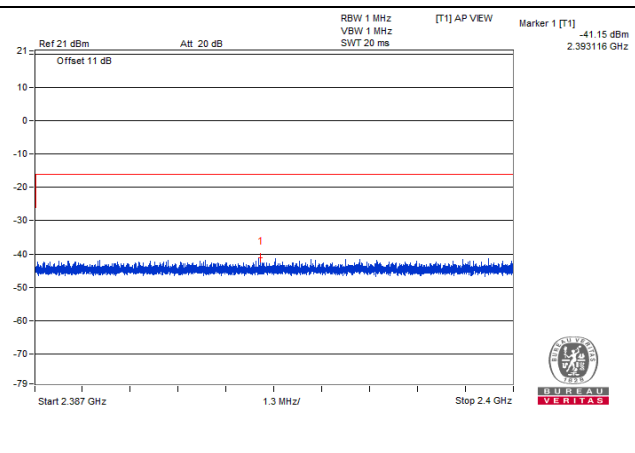
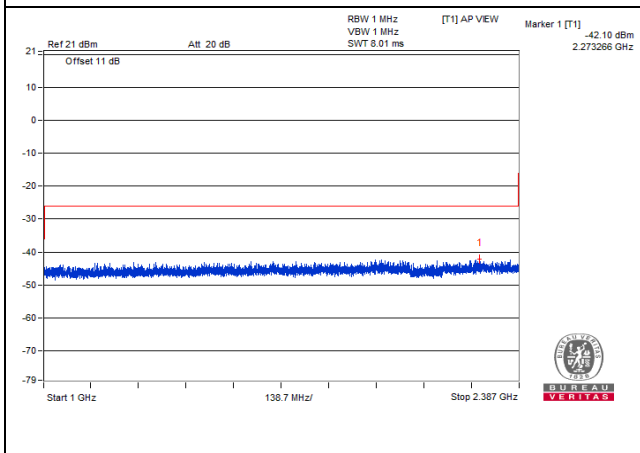
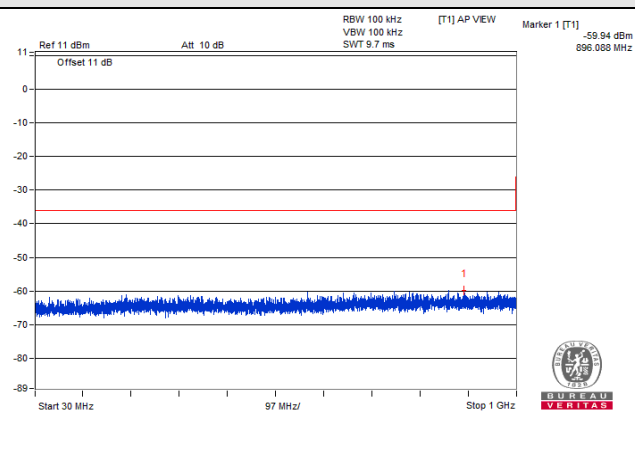
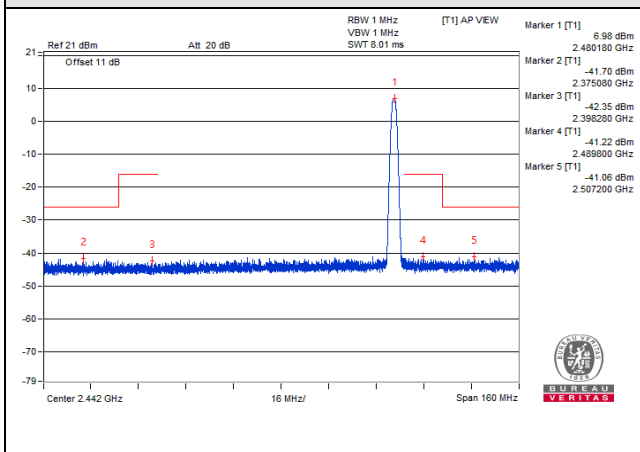
CH 39 (2441MHz)

V_{min}.



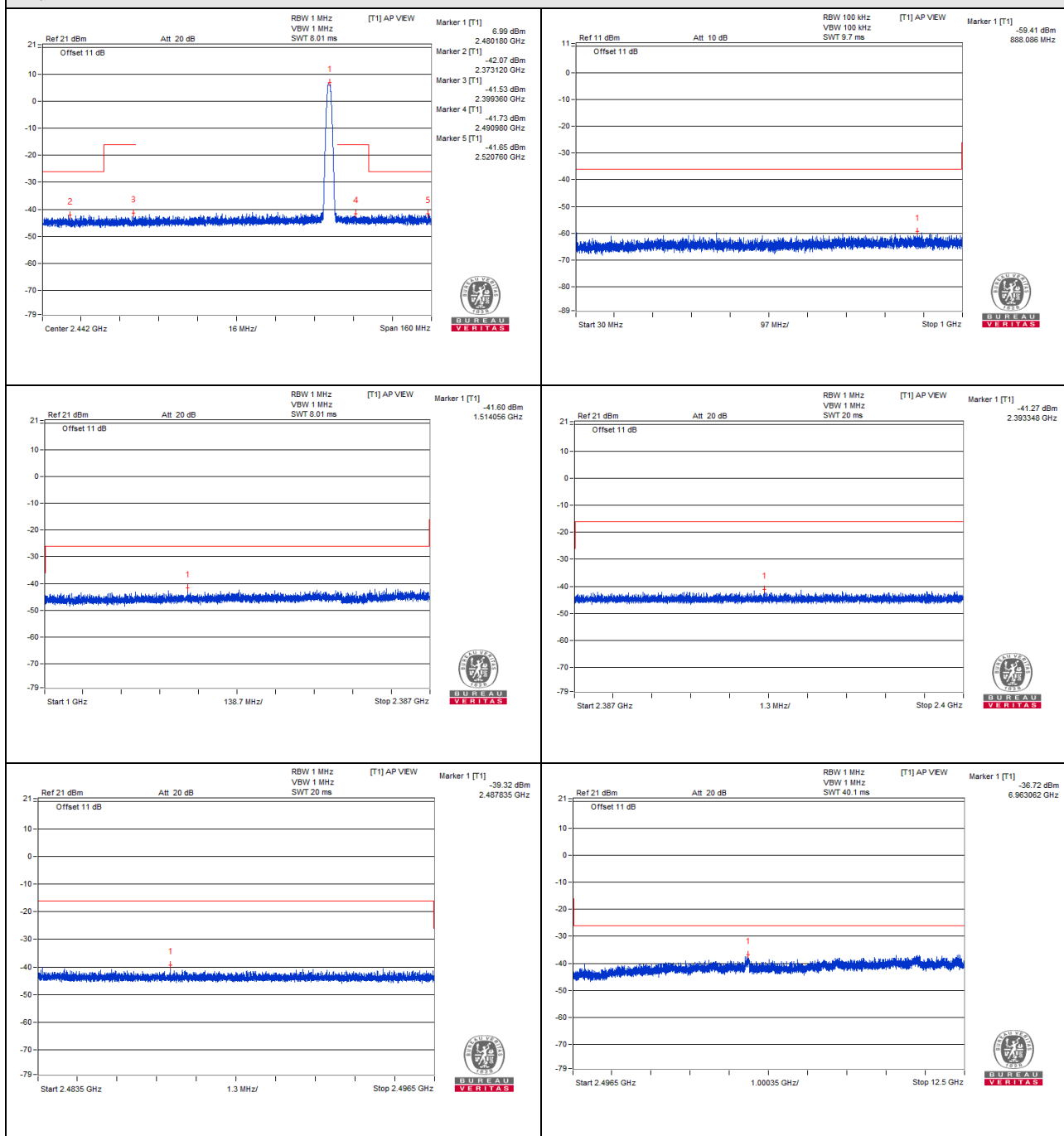
CH 39 (2441MHz)

V_{normal}



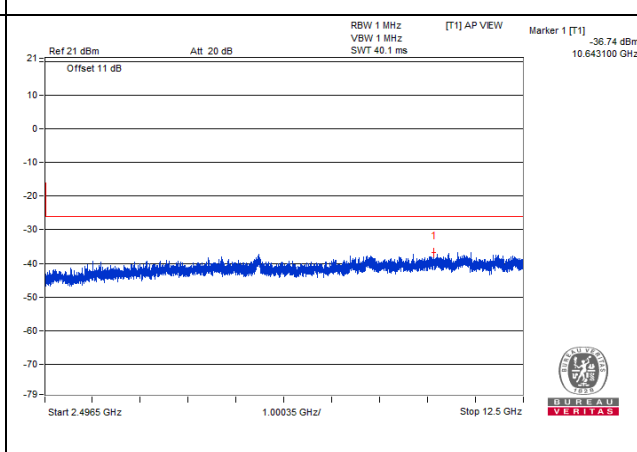
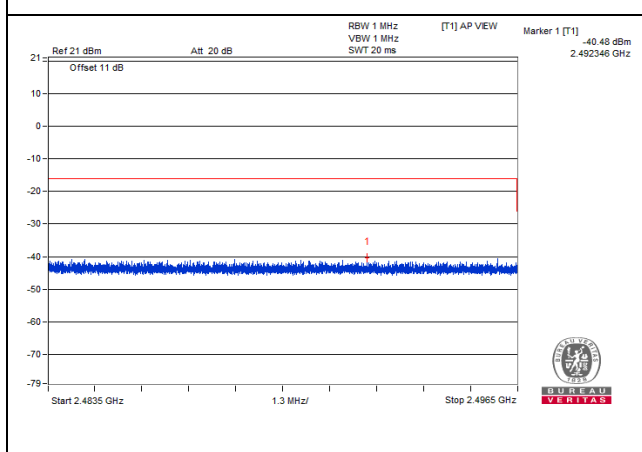
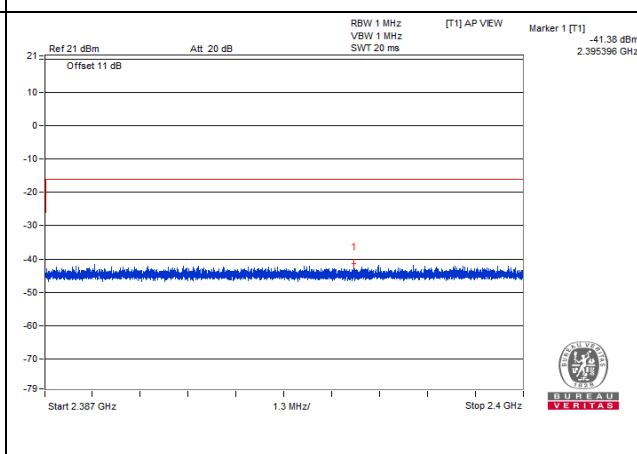
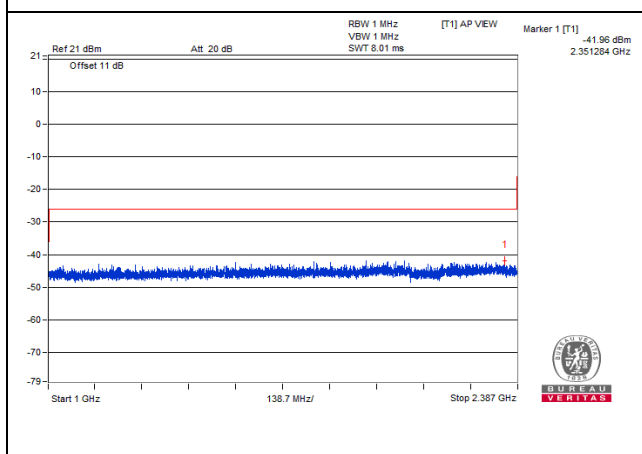
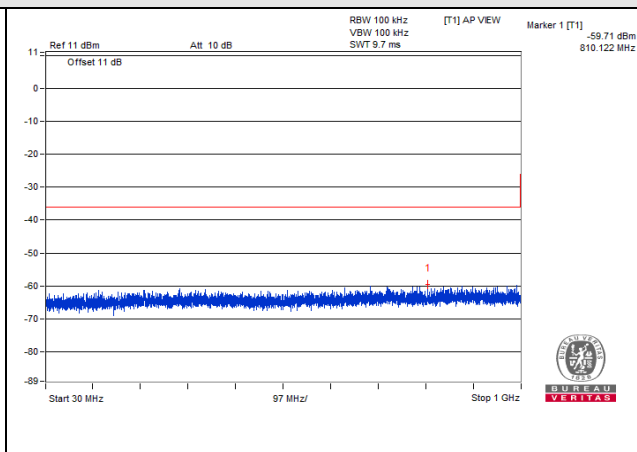
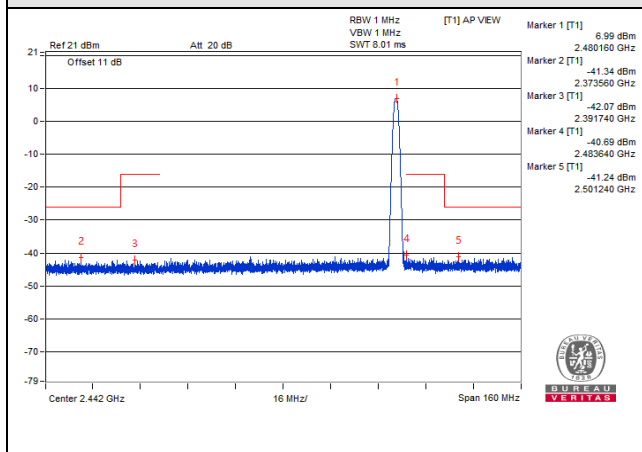
CH 78 (2480MHz)

V_{max}.



CH 78 (2480MHz)

V_{min}.



CH 78 (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	2402	5.236	8.492
	39	2441	5.483	8.892
	78	2480	5.559	9.016
V_{max.}	0	2402	5.176	8.394
	39	2441	5.370	8.709
	78	2480	5.358	8.690
V_{min.}	0	2402	5.358	8.690
	39	2441	5.598	9.079
	78	2480	5.781	9.376
Max. Limit (mW)			10	-
Rated Power (mW)			6	-
Tolerance of Antenna Power (mW)			1.2 ~ 7.2	-
Max. EIRP Limit (mW)			-	16.368

Note: 1. Antenna gain is 2.1 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)

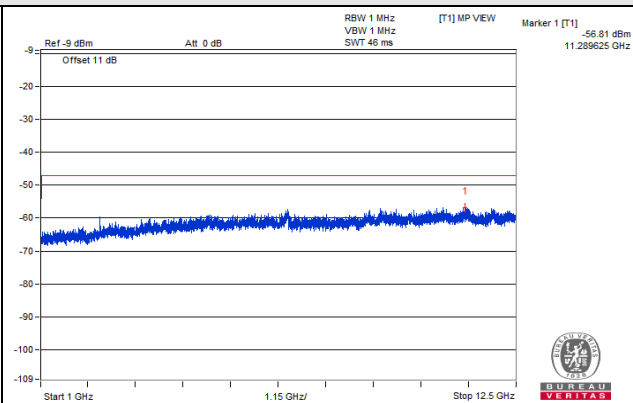
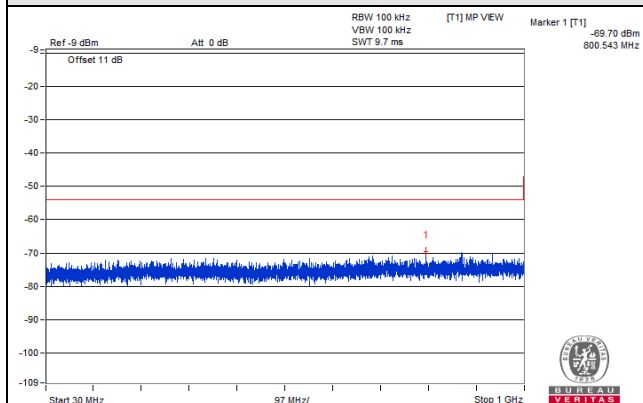
4.5.2 Test Setup



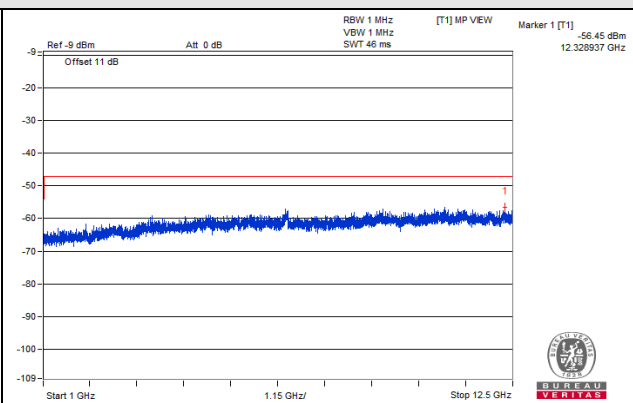
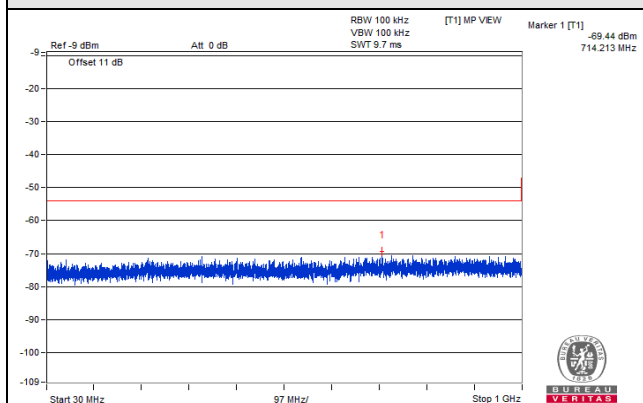
4.5.3 Test Result

TEST CHANNEL		CH 0 (2402MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30MHz to 1000MHz	800.543	0.107152	4.0	PASS
	1000MHz to 12500MHz	11289.625	2.084491	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	714.213	0.113763	4.0	PASS
	1000MHz to 12500MHz	12328.937	2.264644	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	926.158	0.105925	4.0	PASS
	1000MHz to 12500MHz	10658.562	2.506109	20.0	PASS
TEST CHANNEL		CH 39 (2441MHz)			
V_{normal}	30MHz to 1000MHz	726.460	0.113763	4.0	PASS
	1000MHz to 12500MHz	11230.687	2.606154	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	385.747	0.112720	4.0	PASS
	1000MHz to 12500MHz	11971.000	2.060630	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	770.595	0.105925	4.0	PASS
	1000MHz to 12500MHz	11273.812	2.275097	20.0	PASS
TEST CHANNEL		CH 78 (2480MHz)			
V_{normal}	30MHz to 1000MHz	889.541	0.102565	4.0	PASS
	1000MHz to 12500MHz	11206.250	2.387811	20.0	PASS
$V_{max.}$	30MHz to 1000MHz	720.397	0.172982	4.0	PASS
	1000MHz to 12500MHz	10885.687	2.564484	20.0	PASS
$V_{min.}$	30MHz to 1000MHz	742.950	0.109648	4.0	PASS
	1000MHz to 12500MHz	10641.312	2.546830	20.0	PASS

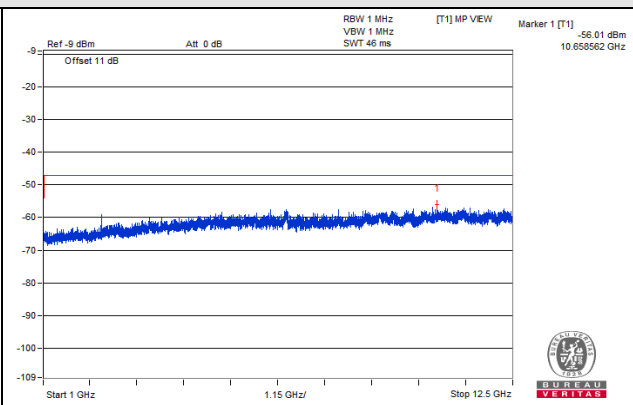
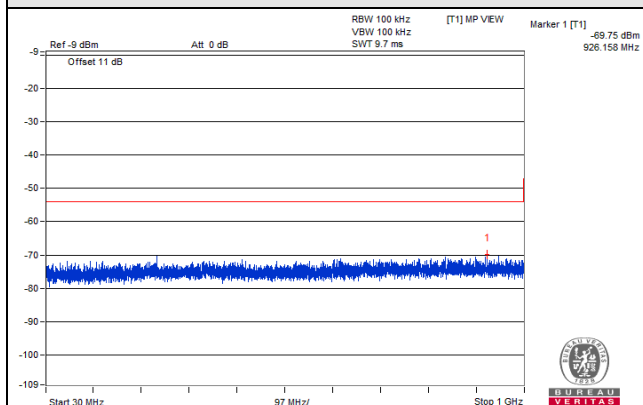
V_{normal}



V_{max.}

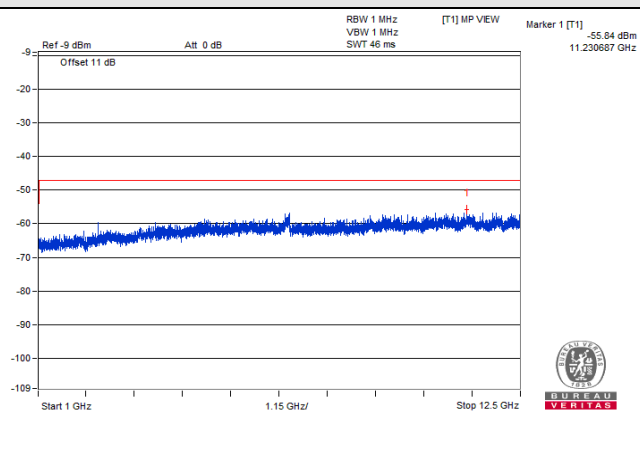
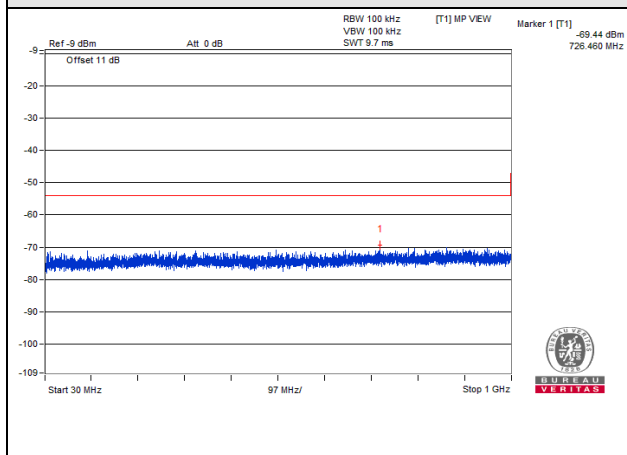


V_{min.}

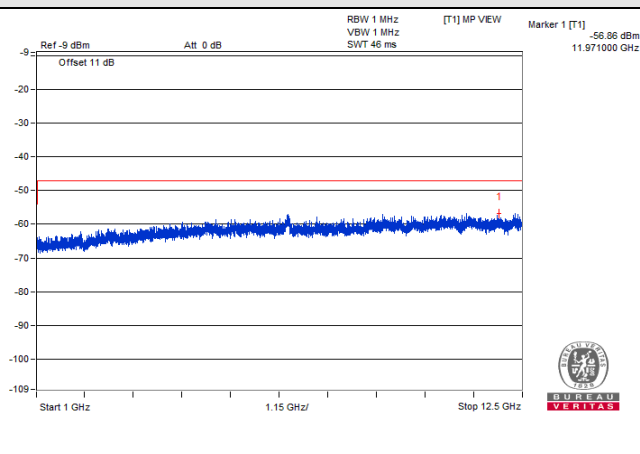
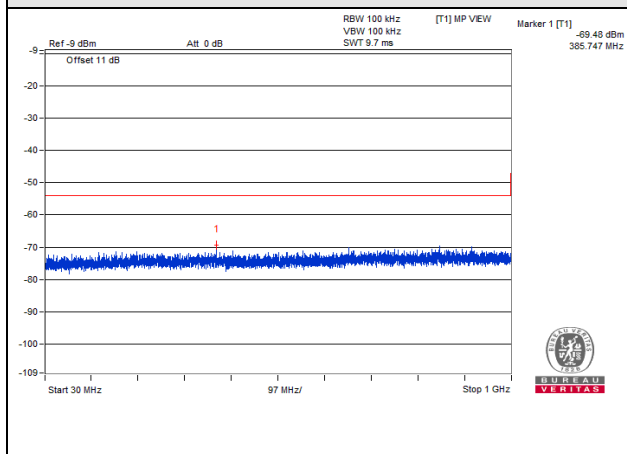


CH 0 (2402MHz)

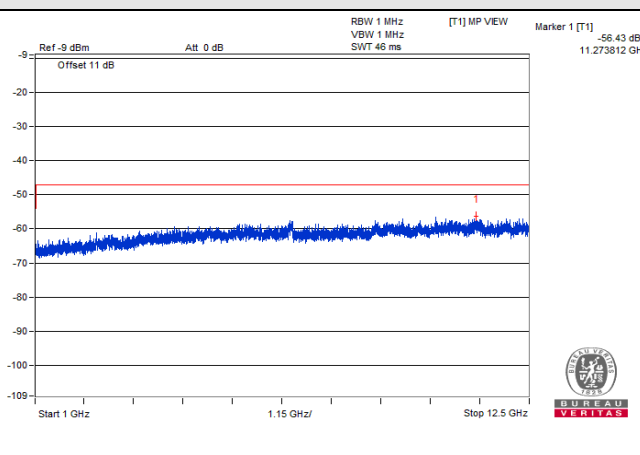
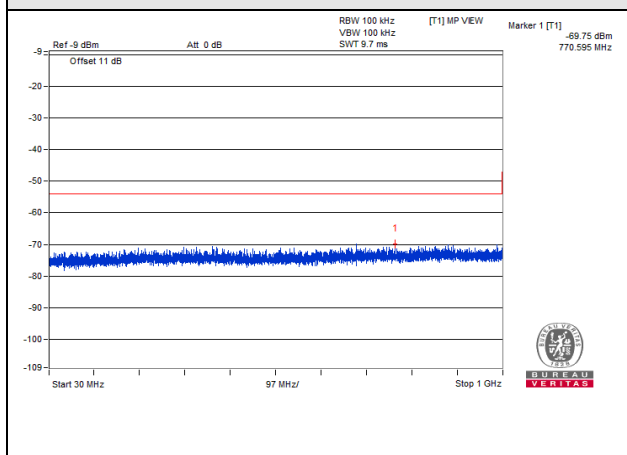
V_{normal}



V_{max.}

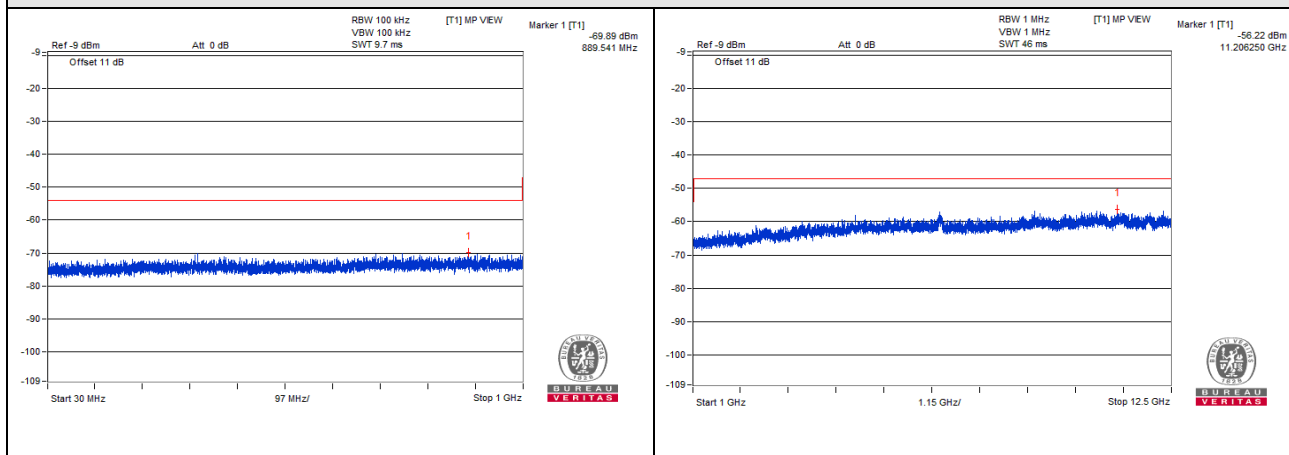


V_{min.}

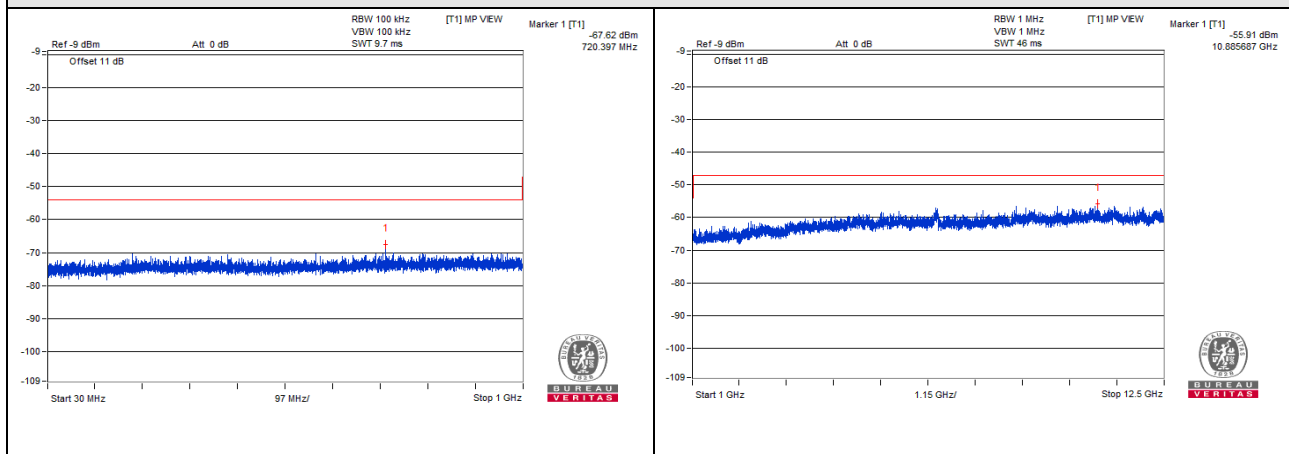


CH 39 (2441MHz)

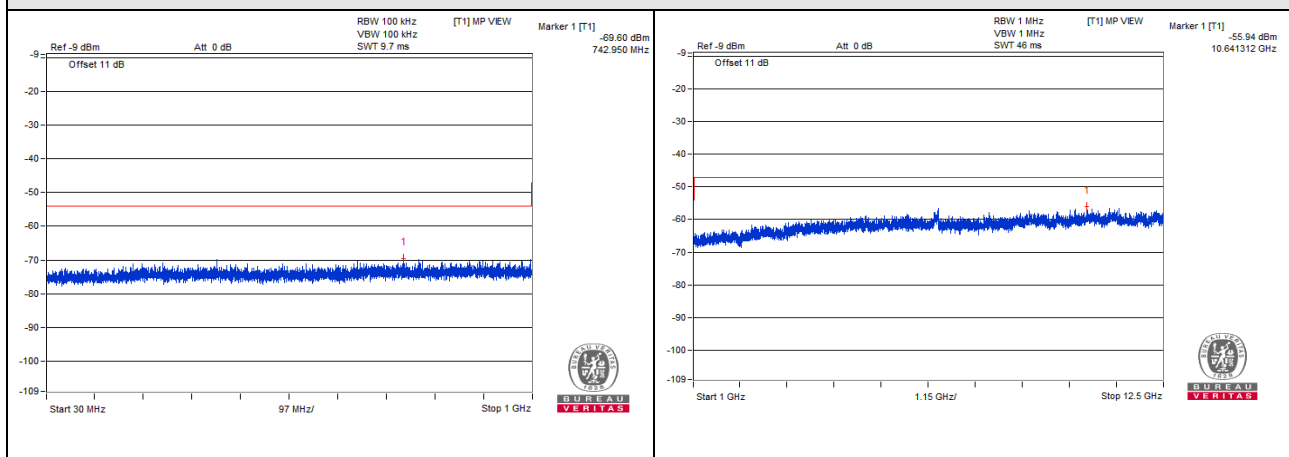
V_{normal}



V_{max.}



V_{min.}



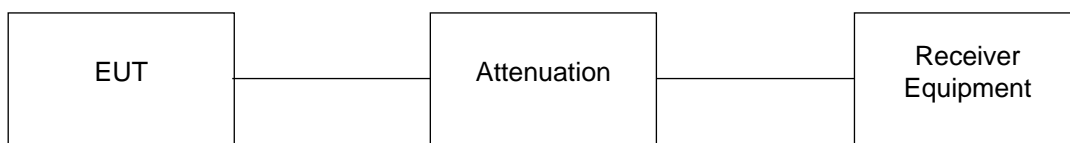
CH 78 (2480MHz)

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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Fax: 886-2-26051924

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Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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