

Radio Test Report (WLAN)

Report No.: RJBEMI-WTW-P21050741C

Test Model: N418

Received Date: 2022/6/28

Test Date: 2022/7/14

Issued Date: 2022/8/12

Applicant: NETRONIX, INC.

Address: No 945, Boai St, Jubei City, Hsinchu, 30265 Taiwan

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan



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Release Control Record

Issue No.	Description	Date Issued
RJBEMI-WTW-P21050741C	Original release.	2022/8/12

1 Certificate of Conformity

Product: Electronic Display Device

Brand: Rakuten kobo

Test Model: N418

Sample Status: Engineering sample

Applicant: NETRONIX, INC.

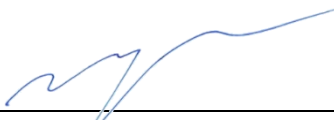
Test Date: 2022/7/14

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 EMC characteristics under the conditions specified in this report.

Prepared by :  , **Date:** 2022/8/12
Claire Kuan / Specialist

Approved by :  , **Date:** 2022/8/12
May Chen / 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				
E	3.2 (6)	4.1	Spurious emissions	C
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)	4.2	Spurious emissions of receiver	C
--	--	3.5	Refer to all articles for transmitting antenna	C
Operating Frequency 2400 to 2483.5 MHz				
--	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	C

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.
3. This report is prepared for supplementary report.

2.1 Test Instruments

Description & Manufacturer	Model no.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
Spectrum Analyzer R&S	FSV40	101516	2022/3/7	2023/3/6	ETC	(c)
ESG Vector signal generator Agilent	E4438C	MY45094468	2021/11/21	2022/11/20	ETC	(c)
Power Meter Anritsu	ML2495A	1529002	2022/6/22	2023/6/21	ETC	(c)
Pulse Power Sensor Anritsu	MA2411B	1726434	2022/6/22	2023/6/21	ETC	(c)
DC POWER SUPPLY Topward	6603D	795558	Note 3	Note 3	BV CPS E&E	(d)
AC Power Source GOOD WILL	6905S	1991551	Note 3	Note 3	BV CPS E&E	(d)
True RMS Clamp Meter Fluke	325	31130711WS	2022/6/9	2023/6/8	ETC	(c)

- Note:**
- The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 - Calibration method :
 - Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
 - 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.
 - 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).
 - Calibration conducted by using other equipment that listed above from a) to c).
 - The power supply no evaluation calibrated, which used the digital multimeter to verify before each testing.
 - Tested Date: 2022/7/14

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	± 960 Hz
Spurious emissions	± 2.5 dB
Output power density	± 1.2 dB
Out of band radiated power	± 2.5 dB
Frequency Tolerance	± 960 Hz

2.3 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT (WLAN)

Product	Electronic Display Device
Brand	Rakuten kobo
Test Model	N418
Status of EUT	Engineering sample
Nominal Voltage	3.7 Vdc from battery or 5 Vdc from USB interface
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: up to 11 Mbps 802.11g: up to 54 Mbps 802.11n: up to 150 Mbps
Operating Frequency	2.412 ~ 2.472 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20): 13 802.11n (HT40): 9
Rated RF Output Power Density	Refer to Note
Conducted RF Output Power Density	Refer to Note
Radiated RF Output Power Density	Refer to Note
Antenna Type	Refer to section 3.5
Antenna Connector	Refer to section 3.5
Cable Supplied	USB Cable x1 (Shielded, 1.0m)

Note:

- This is a supplementary report of Report No.: RJBEMI-WTW-P21050741B. The differences between them are as below information:
◆ Change EPD PMIC Power.
- According to above conditions, only spurious emissions (below 1GHz) needs to be performed. And all data are verified to meet the requirements.
- Simultaneously transmission condition.

Condition	Technology	
1	WLAN 2.4GHz	Bluetooth

- The EUT could be supplied with MicroSD card and following different models could be chosen:

No.	Model	Remark
1	SDSDQAB-032G-1	1 st source MicroSD
2	MKUS032G-CGZ1	2 nd source MicroSD

- The EUT could be supplied with USB cable and following different models could be chosen:

Brand	Model	Material	Color	Signal Line
Yih Fone	SH-0422	PVC	Black	Shielded : Y , 1.0M , Core: N/A
	SH-0418	TPE		
	SH-0424	PVC	White	
	SH-0420	TPE		

6. For input voltage of EUT, the worse case was found at the voltage 5Vdc condition. Therefore only the test data of the mode was recorded in this report individually.

7. The EUT could be supplied with a rechargeable battery as the following table:

Brand Name	Model No.	Spec.
EVE Energy CO., LTD	PR-284983N	3.7Vdc, 1500mAh, 5.25 Wh

8. The EUT incorporates a SISO function:

MODULATION MODE	TX & RX CONFIGURATION	
802.11b	1TX	1RX
802.11g	1TX	1RX
802.11n (HT20)	1TX	1RX
802.11n (HT40)	1TX	1RX

9. The power table as below table:

Modulation Mode	Rated output power density (mW/MHz)	Conducted RF output power density (mW/MHz)	Radiated RF output power density (mW/MHz)
2.4GHz Band			
802.11b	10	9.842	15.599
802.11g	10	9.888	15.671
802.11n (HT20)	10	9.64	15.278
802.11n (HT40)	5	4.798	7.604

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

3.2 Description of Test Modes

Operated in 2400 ~ 2483.5MHz band:

13 channels are provided for 802.11b, 802.11g, 802.11n (HT20):

Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

9 channels are provided for 802.11n (HT40):

Channel	Freq. (MHz)	Channel	Freq. (MHz)
3	2422	8	2447
4	2427	9	2452
5	2432	10	2457
6	2437	11	2462
7	2442		

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 (HyperTerminal paste 2.4G command.txt command) provided by manufacturer, the power levels during the tests were set according to the following codes:

802.11b		802.11g		802.11n (HT20)		802.11n (HT40)	
Channel	Power Setting	Channel	Power Setting	Channel	Power Setting	Channel	Power Setting
1	45	1	56	1	56	3	56
7	44	7	59	7	59	7	59
13	44	13	53	13	53	11	51

3.3 Test Conditions

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

Test modes are presented in the report as below:

Test Item	Environmental Conditions
Spurious Emissions for Transmitter	25 deg.C, 60 % RH
Spurious Emissions for Receiver	25 deg.C, 60 % RH

3.4 Assembly

The EUT is constructed as an Electronic Display Device. The housing consists of two parts, and the metal enclosure was assembled with glue and covered by rubbers, separating the two parts was only possible by means of brute force.

3.5 Antenna Specifications

3.5.1 Antenna Gain

Brand	Model	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type
Walsin Technology Corporation	RFECA3216060AAT	2	2.4~2.4835GHz	CERAMIC ANTENNA	none

Note: 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.

3.5.2 Antenna Pattern

Please refer to the attached file (Antenna pattern).

4 Test Results

4.1 Spurious Emissions for Transmitter Measurement

4.1.1 Limits of Spurious Emissions

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

4.1.2 Test Setup



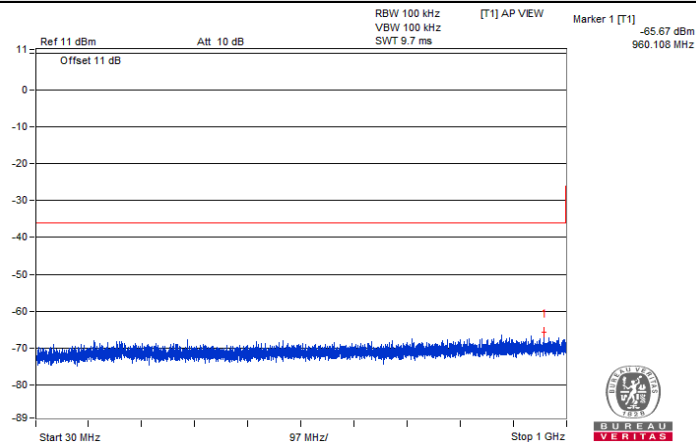
4.1.3 Test Results

802.11b

TEST CHANNEL		CH 1 (2412MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V _{normal}	30.0 to 1000.0	960.108	0.000271	0.25	PASS
V _{max.}	30.0 to 1000.0	977.447	0.000242	0.25	PASS
V _{min.}	30.0 to 1000.0	960.108	0.000230	0.25	PASS
TEST CHANNEL		CH 7 (2442MHz)			
V _{normal}	30.0 to 1000.0	960.108	0.000262	0.25	PASS
V _{max.}	30.0 to 1000.0	864.806	0.000225	0.25	PASS
V _{min.}	30.0 to 1000.0	931.736	0.000228	0.25	PASS
TEST CHANNEL		CH 13 (2472MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V _{normal}	30.0 to 1000.0	960.108	0.000254	0.25	PASS
V _{max.}	30.0 to 1000.0	729.370	0.000277	0.25	PASS
V _{min.}	30.0 to 1000.0	860.805	0.000234	0.25	PASS

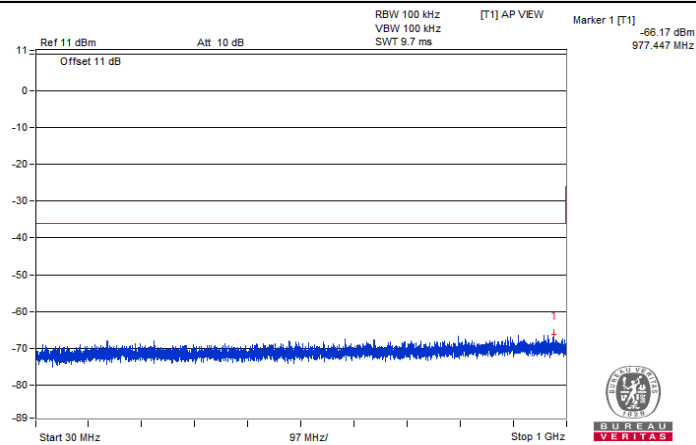
NOTE: 1. The spectrum plots are attached on the following pages.

V_{normal}



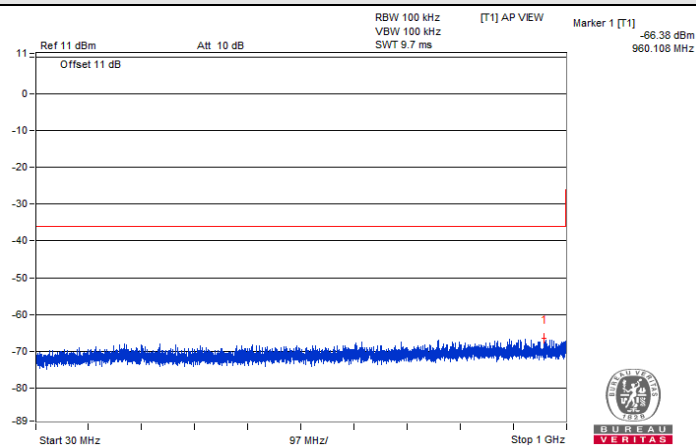
CH 1 (2412MHz)

V_{max.}



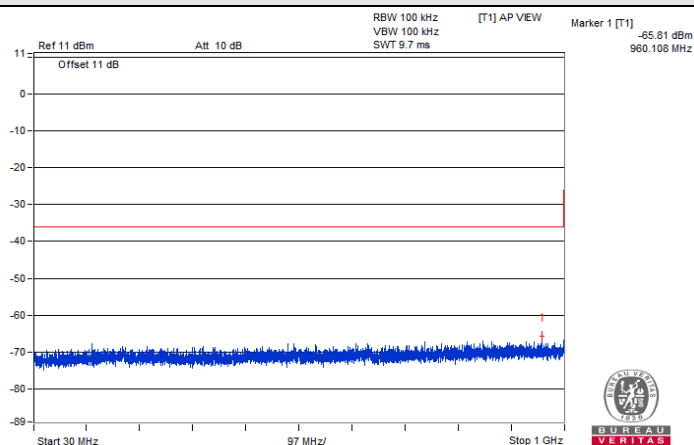
CH 1 (2412MHz)

V_{min.}



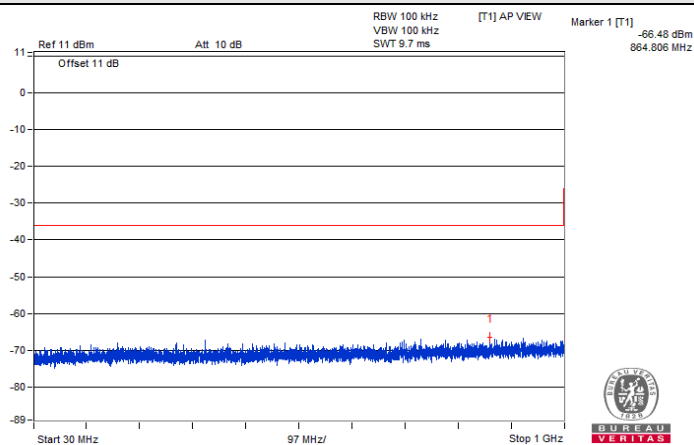
CH 1 (2412MHz)

V_{normal}



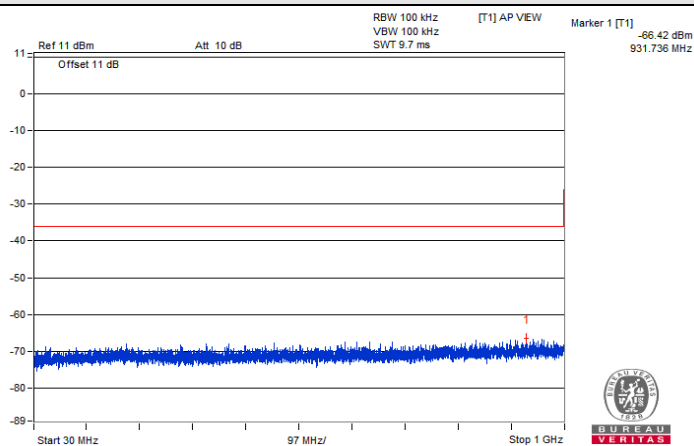
CH 7 (2442MHz)

V_{max.}



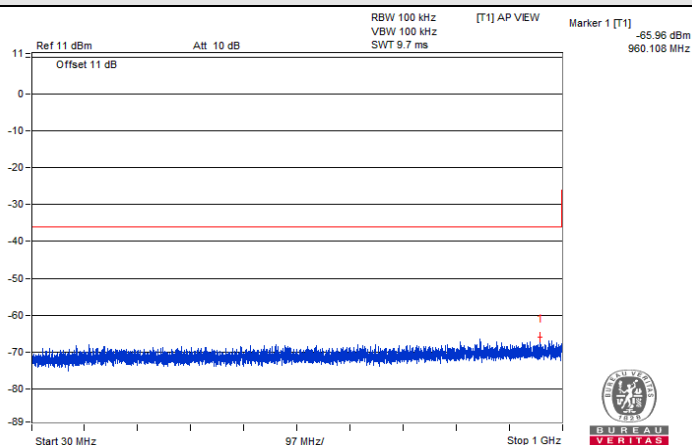
CH 7 (2442MHz)

V_{min.}



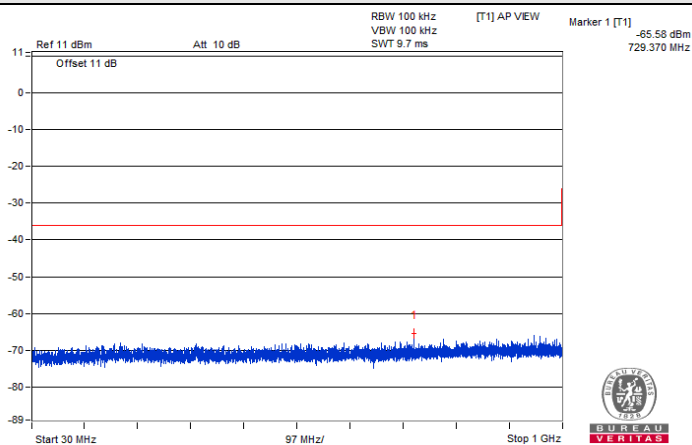
CH 7 (2442MHz)

V_{normal}



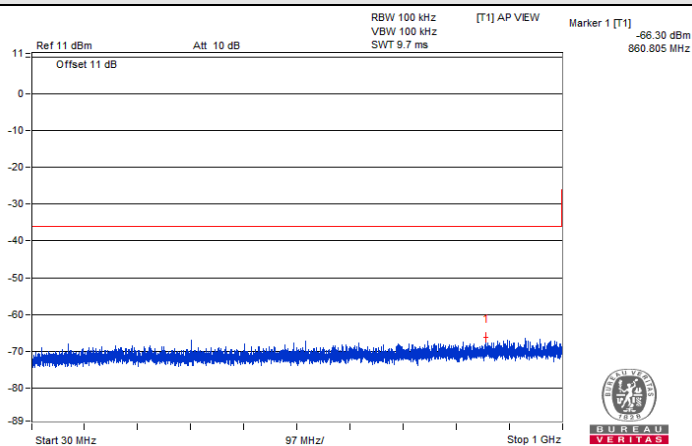
CH 13 (2472MHz)

V_{max.}



CH 13 (2472MHz)

V_{min.}



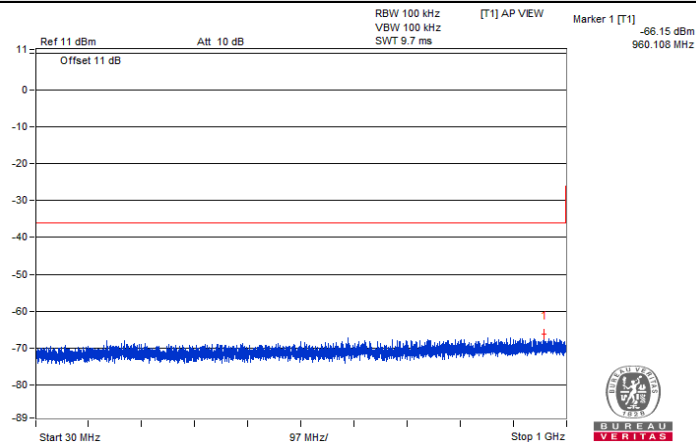
CH 13 (2472MHz)

802.11g

TEST CHANNEL		CH 1 (2412MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V _{normal}	30.0 to 1000.0	960.108	0.000243	0.25	PASS
V _{max.}	30.0 to 1000.0	960.108	0.000266	0.25	PASS
V _{min.}	30.0 to 1000.0	960.108	0.000259	0.25	PASS
TEST CHANNEL		CH 7 (2442MHz)			
V _{normal}	30.0 to 1000.0	960.108	0.000242	0.25	PASS
V _{max.}	30.0 to 1000.0	960.472	0.000251	0.25	PASS
V _{min.}	30.0 to 1000.0	925.673	0.000242	0.25	PASS
TEST CHANNEL		CH 13 (2472MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V _{normal}	30.0 to 1000.0	960.108	0.000265	0.25	PASS
V _{max.}	30.0 to 1000.0	960.108	0.000269	0.25	PASS
V _{min.}	30.0 to 1000.0	960.108	0.000209	0.25	PASS

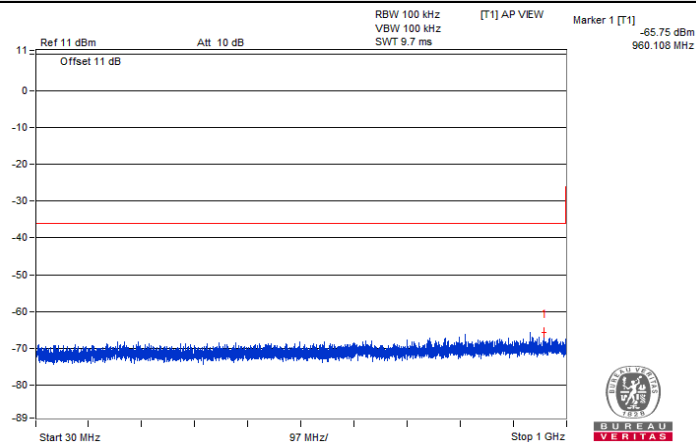
NOTE: 1. The spectrum plots are attached on the following pages.

V_{normal}



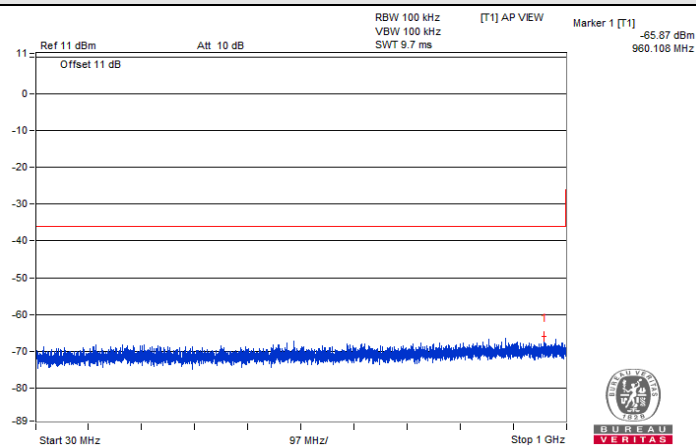
CH 1 (2412MHz)

V_{max.}



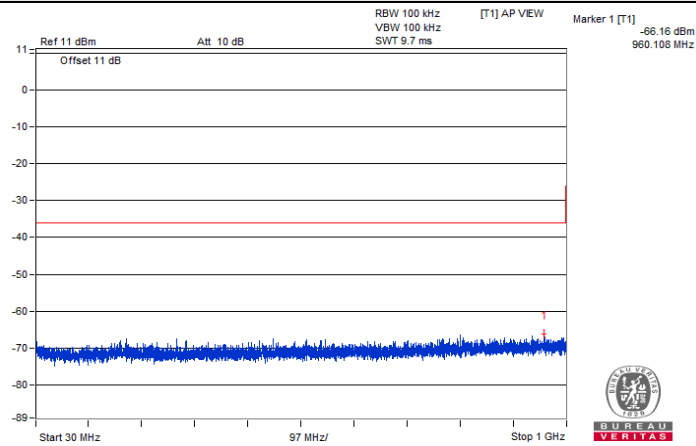
CH 1 (2412MHz)

V_{min.}



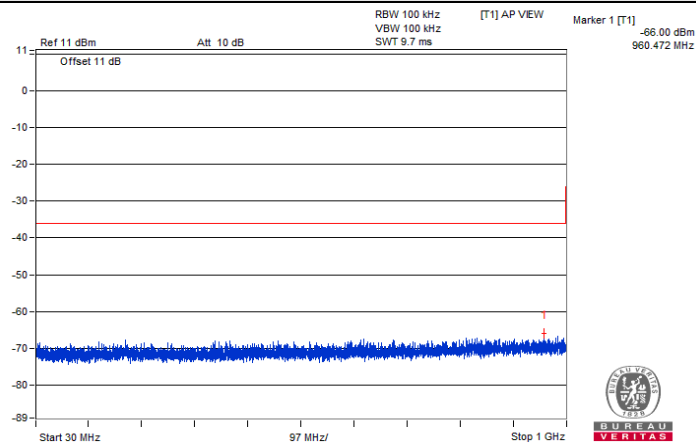
CH 1 (2412MHz)

V_{normal}



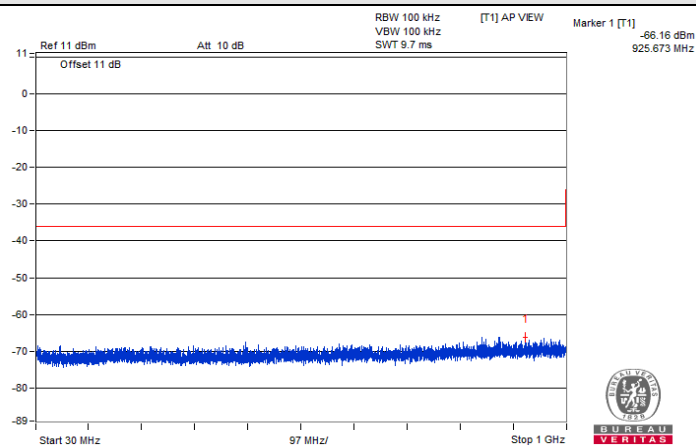
CH 7 (2442MHz)

V_{max.}



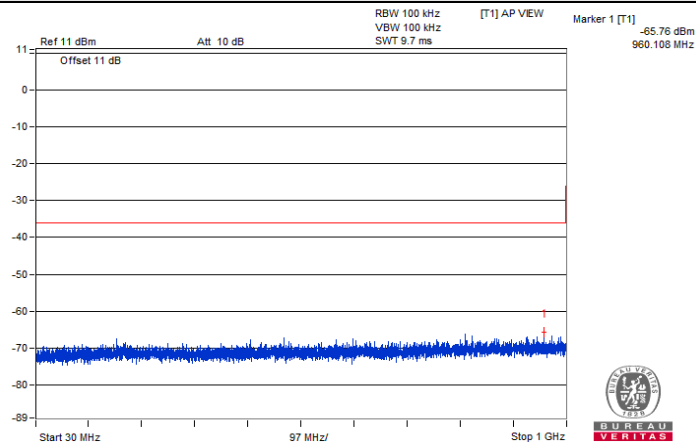
CH 7 (2442MHz)

V_{min.}



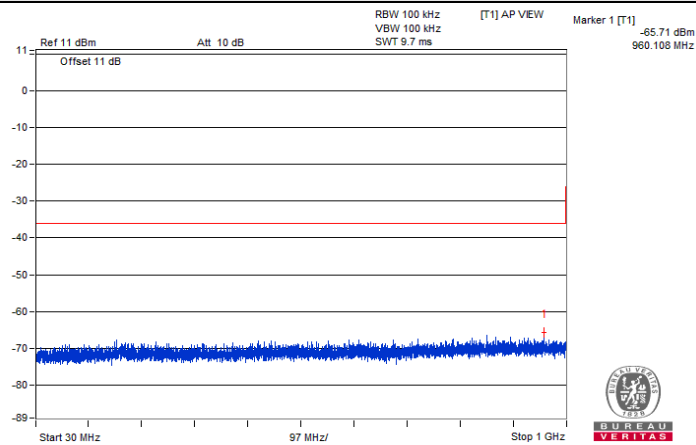
CH 7 (2442MHz)

V_{normal}



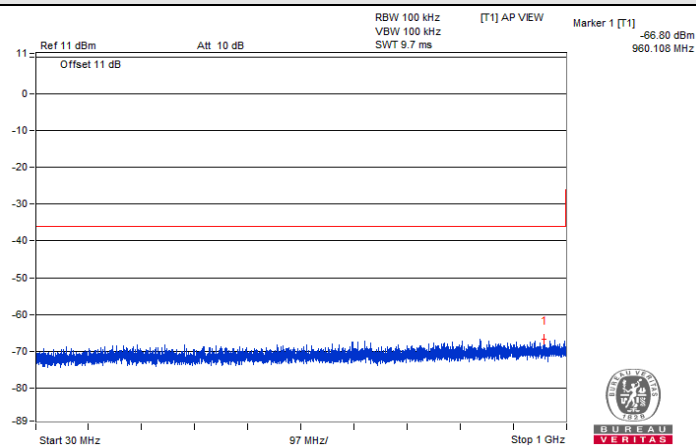
CH 13 (2472MHz)

V_{max.}



CH 13 (2472MHz)

V_{min.}



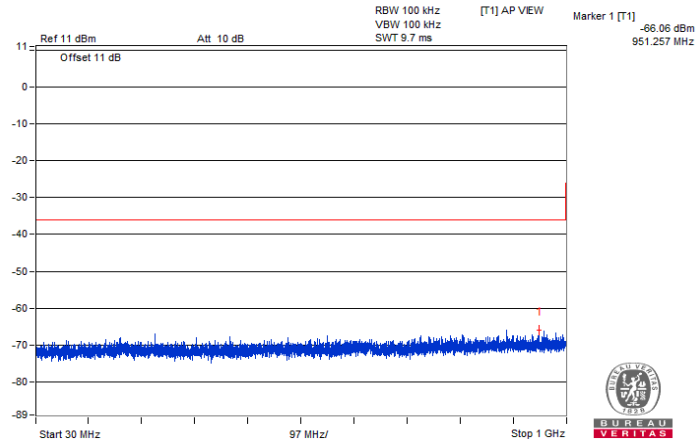
CH 13 (2472MHz)

802.11n (HT20)

TEST CHANNEL		CH 1 (2412MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V _{normal}	30.0 to 1000.0	951.257	0.000248	0.25	PASS
V _{max.}	30.0 to 1000.0	960.108	0.000382	0.25	PASS
V _{min.}	30.0 to 1000.0	793.875	0.000192	0.25	PASS
TEST CHANNEL		CH 7 (2442MHz)			
V _{normal}	30.0 to 1000.0	992.603	0.000264	0.25	PASS
V _{max.}	30.0 to 1000.0	983.267	0.000223	0.25	PASS
V _{min.}	30.0 to 1000.0	960.108	0.000319	0.25	PASS
TEST CHANNEL		CH 13 (2472MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V _{normal}	30.0 to 1000.0	926.037	0.000211	0.25	PASS
V _{max.}	30.0 to 1000.0	840.313	0.000205	0.25	PASS
V _{min.}	30.0 to 1000.0	960.108	0.000243	0.25	PASS

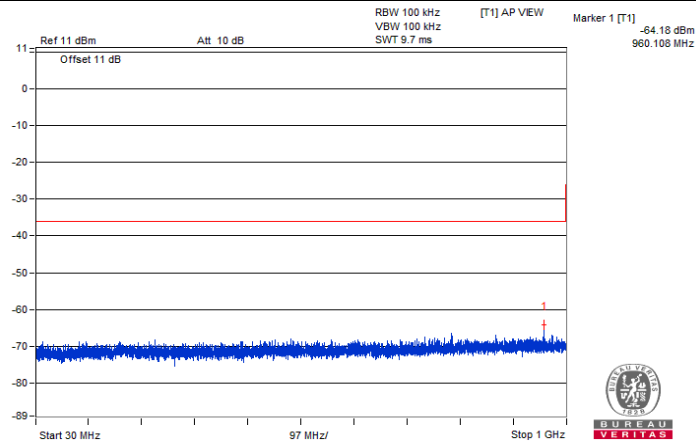
NOTE: 1. The spectrum plots are attached on the following pages.

V_{normal}



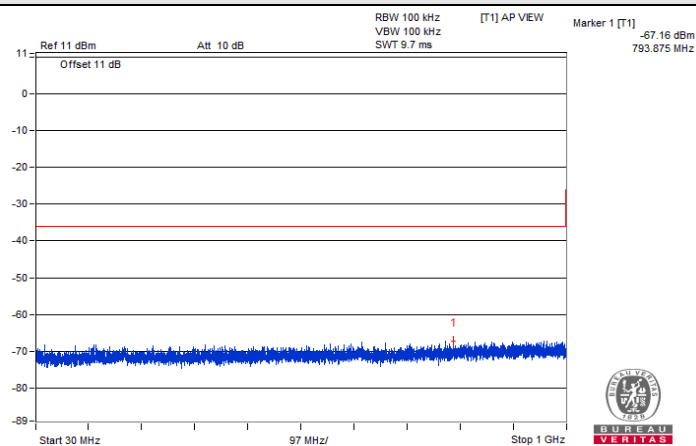
CH 1 (2412MHz)

V_{max.}



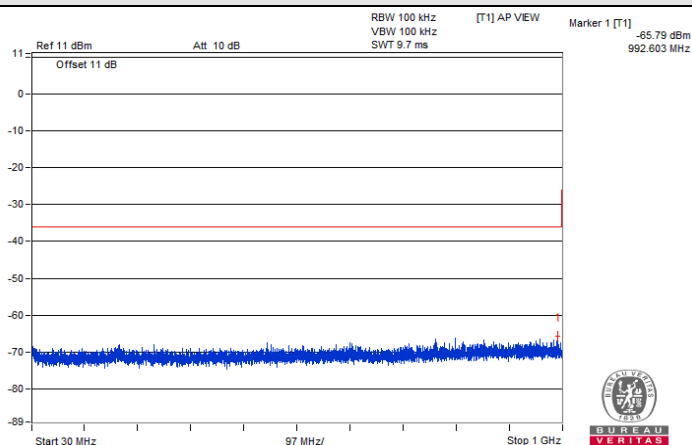
CH 1 (2412MHz)

V_{min.}



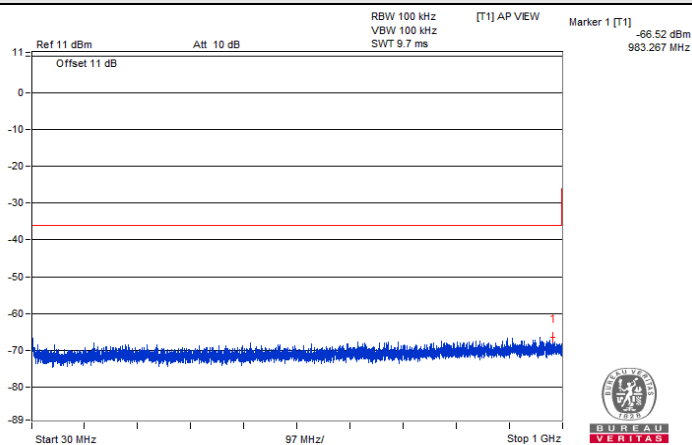
CH 1 (2412MHz)

V_{normal}



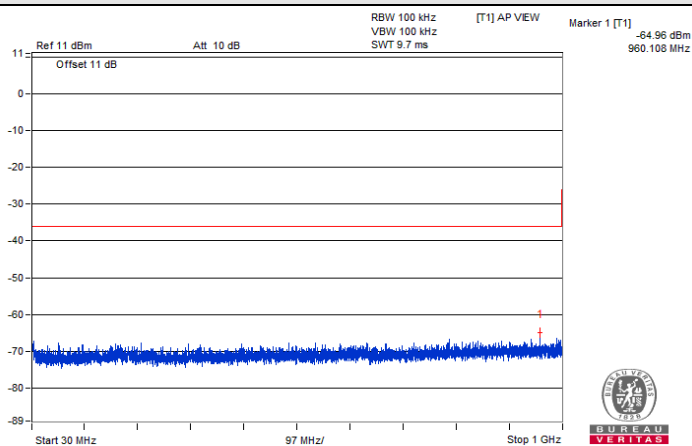
CH 7 (2442MHz)

V_{max.}



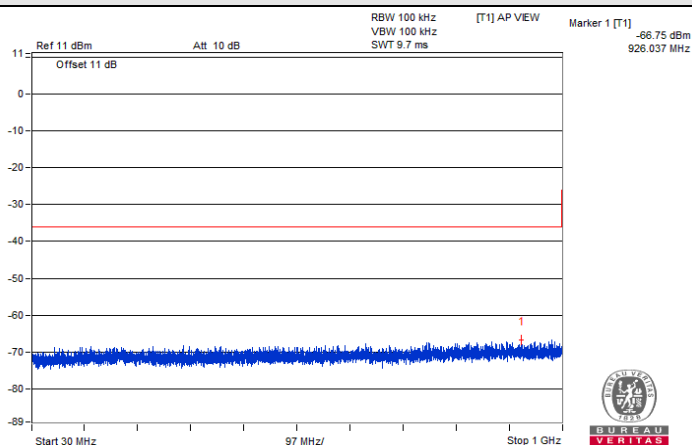
CH 7 (2442MHz)

V_{min.}



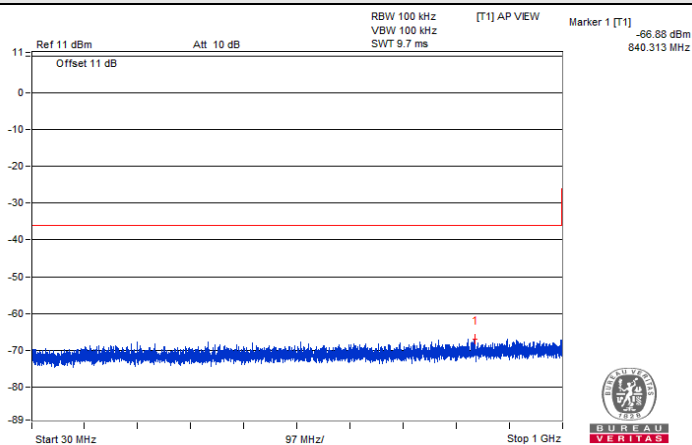
CH 7 (2442MHz)

V_{normal}



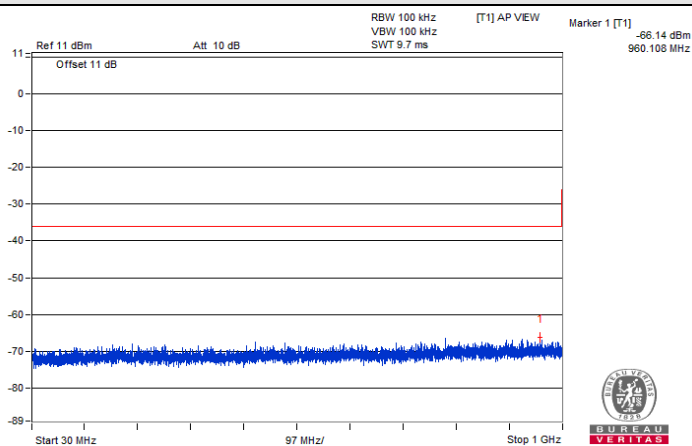
CH 13 (2472MHz)

V_{max.}



CH 13 (2472MHz)

V_{min.}



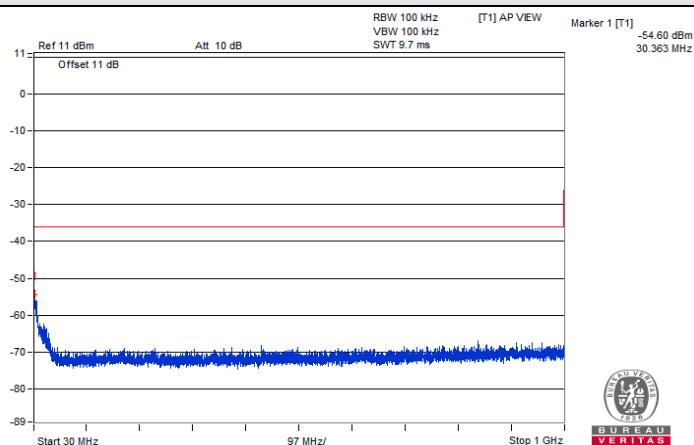
CH 13 (2472MHz)

802.11n (HT40)

TEST CHANNEL		CH 3 (2422MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V _{normal}	30.0 to 1000.0	30.363	0.003467	0.25	PASS
V _{max.}	30.0 to 1000.0	30.363	0.003020	0.25	PASS
V _{min.}	30.0 to 1000.0	30.242	0.003396	0.25	PASS
TEST CHANNEL		CH 7 (2442MHz)			
V _{normal}	30.0 to 1000.0	30.606	0.004395	0.25	PASS
V _{max.}	30.0 to 1000.0	30.242	0.004102	0.25	PASS
V _{min.}	30.0 to 1000.0	30.000	0.005047	0.25	PASS
TEST CHANNEL		CH 11 (2462MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(uW)	LIMIT (uW)	RESULT
V _{normal}	30.0 to 1000.0	30.848	0.001936	0.25	PASS
V _{max.}	30.0 to 1000.0	30.000	0.001991	0.25	PASS
V _{min.}	30.0 to 1000.0	30.000	0.002046	0.25	PASS

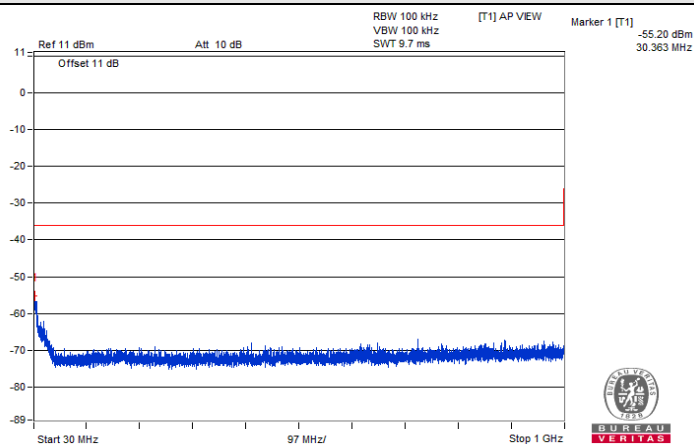
- NOTE:** 1. The spectrum plots are attached on the following pages.
 2. (No.): The value was tested under Measuring Mode *Zero Span.

V_{normal}



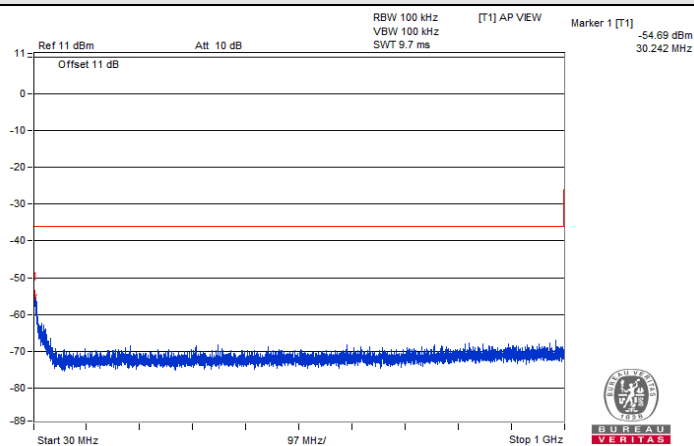
CH 3 (2422MHz)

V_{max.}



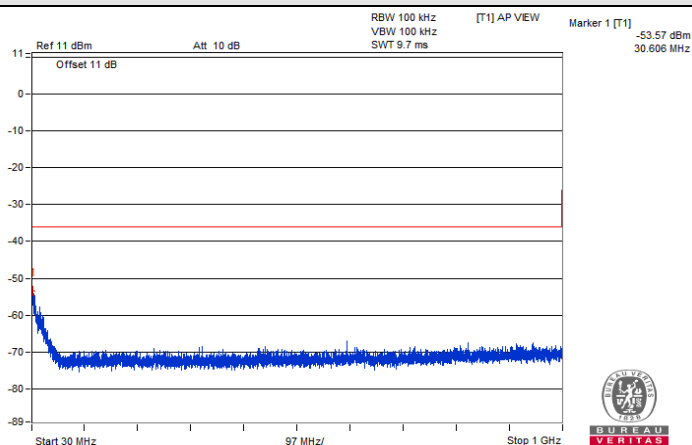
CH 3 (2422MHz)

V_{min.}



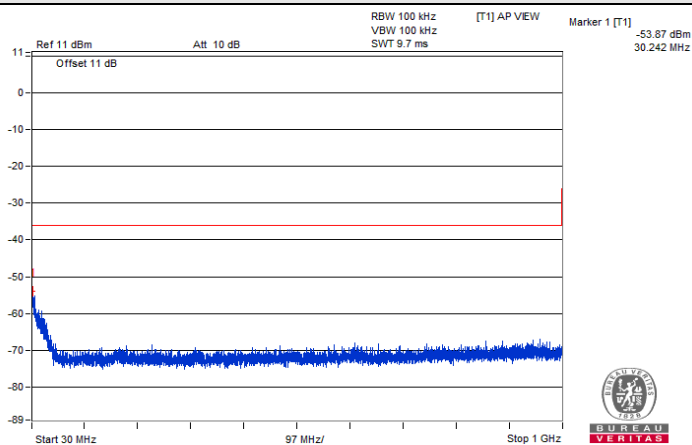
CH 3 (2422MHz)

V_{normal}



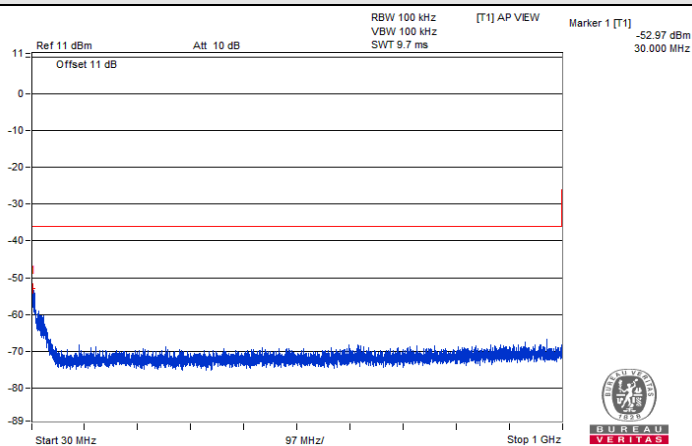
CH 7 (2442MHz)

V_{max.}



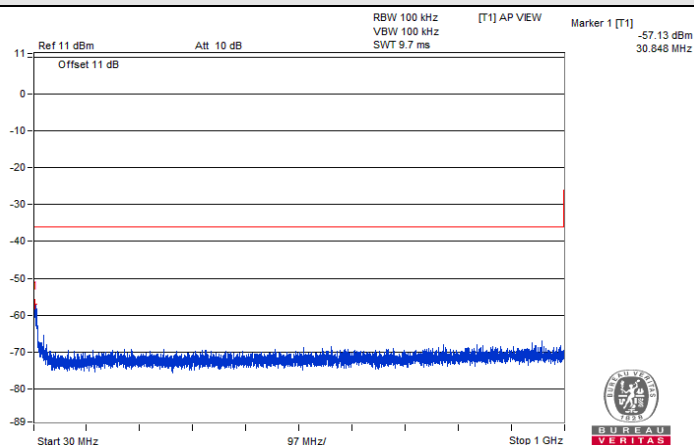
CH 7 (2442MHz)

V_{min.}



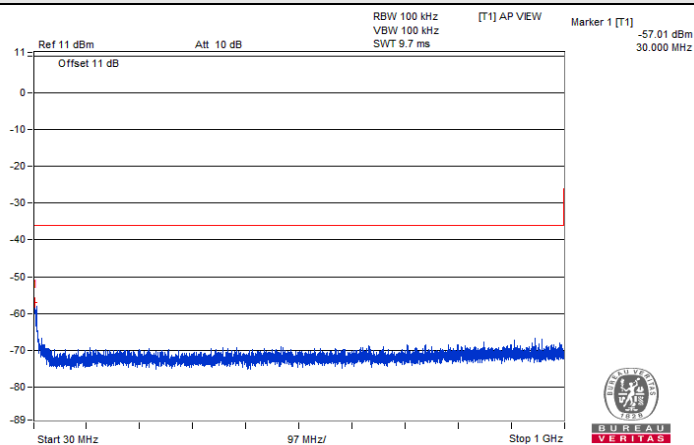
CH 7 (2442MHz)

V_{normal}



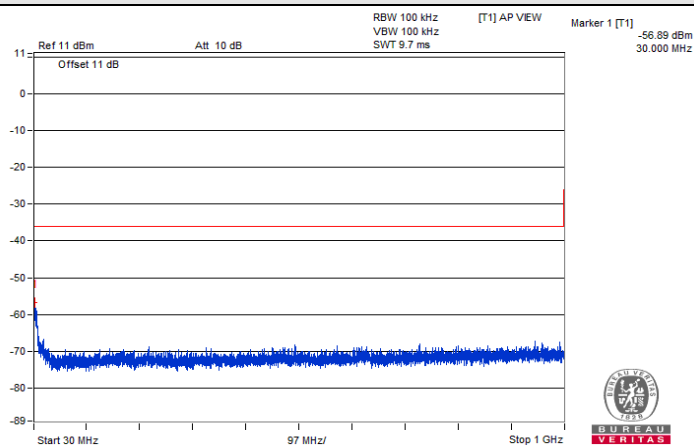
CH 11 (2462MHz)

V_{max.}



CH 11 (2462MHz)

V_{min.}



CH 11 (2462MHz)

4.2 Spurious Emissions for Receiver

4.2.1 Limits of Spurious Emissions for Receiver

Frequencies (MHz)	Limit
Below 1 GHz	$\leq 4\text{nW}/100\text{ kHz}$ (-54 dBm)

4.2.2 Test Setup

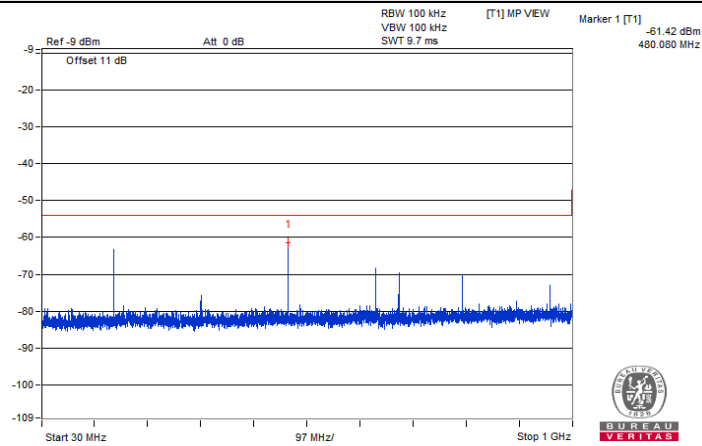


4.2.3 Test Result

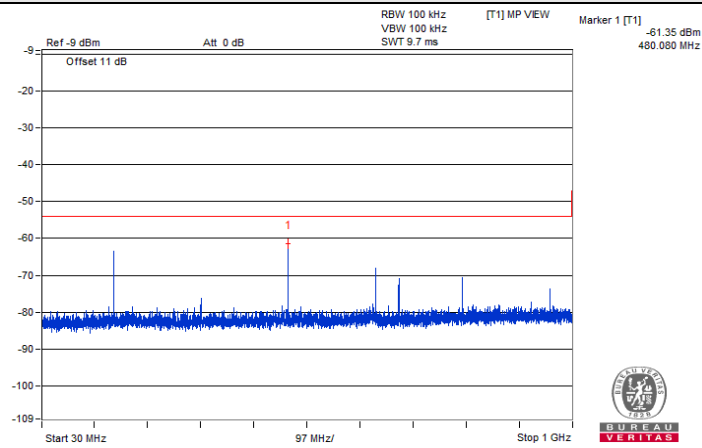
802.11b / 802.11g / 802.11n (HT20)

TEST CHANNEL		CH 1 (2412MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	480.080	0.721107	4.0	PASS
V _{max.}	30.0 to 1000.0	480.080	0.732825	4.0	PASS
V _{min.}	30.0 to 1000.0	479.958	0.701455	4.0	PASS
TEST CHANNEL		CH 7 (2442MHz)			
V _{normal}	30.0 to 1000.0	480.080	0.711214	4.0	PASS
V _{max.}	30.0 to 1000.0	479.958	0.756833	4.0	PASS
V _{min.}	30.0 to 1000.0	479.958	0.749894	4.0	PASS
TEST CHANNEL		CH 13 (2472MHz)			
V _{normal}	30.0 to 1000.0	479.958	0.734514	4.0	PASS
V _{max.}	30.0 to 1000.0	479.958	0.701455	4.0	PASS
V _{min.}	30.0 to 1000.0	480.080	0.739605	4.0	PASS

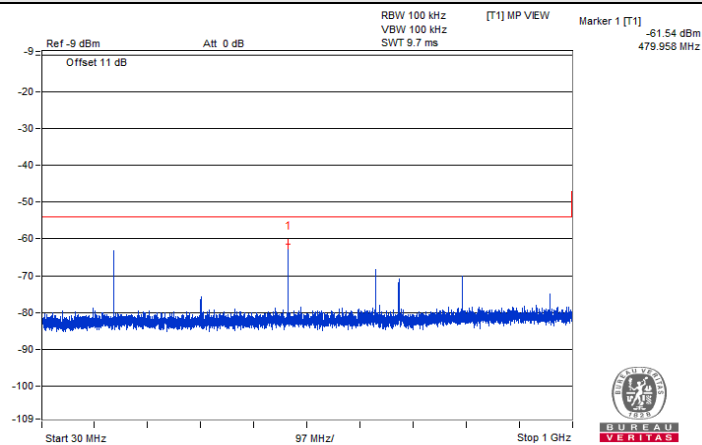
V_{normal}



V_{max}

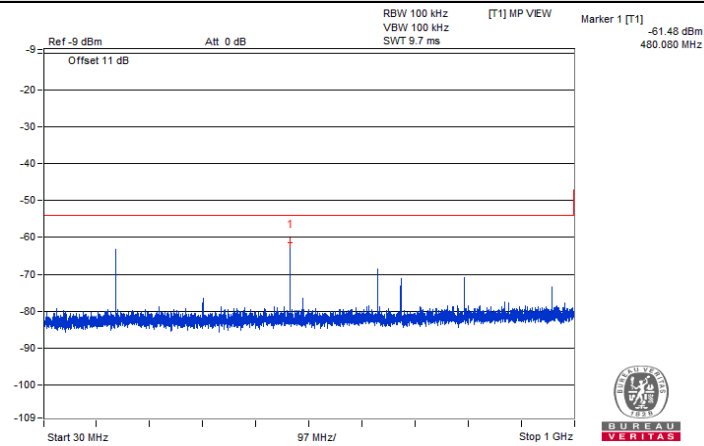


V_{min}

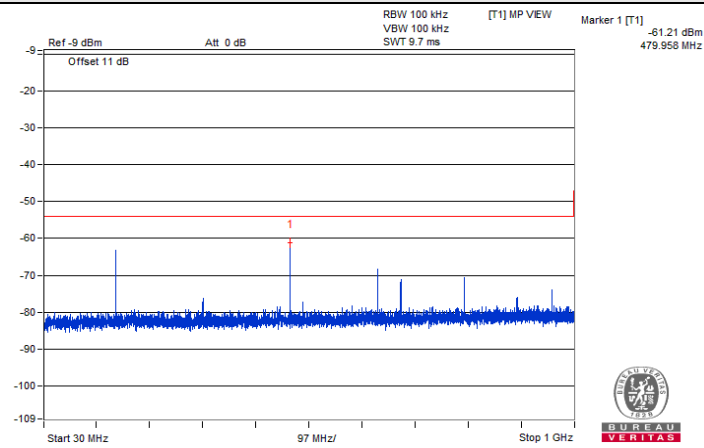


CH 1 (2412MHz)

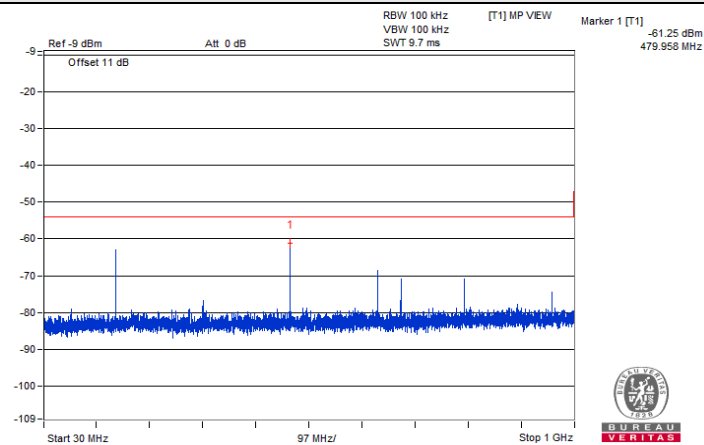
V_{normal}



V_{max}

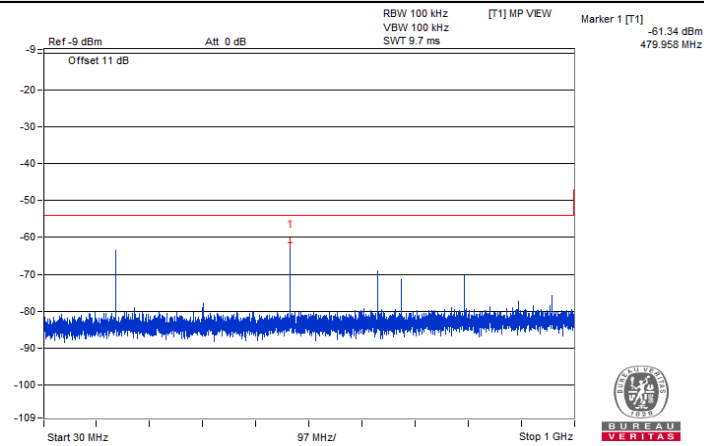


V_{min}

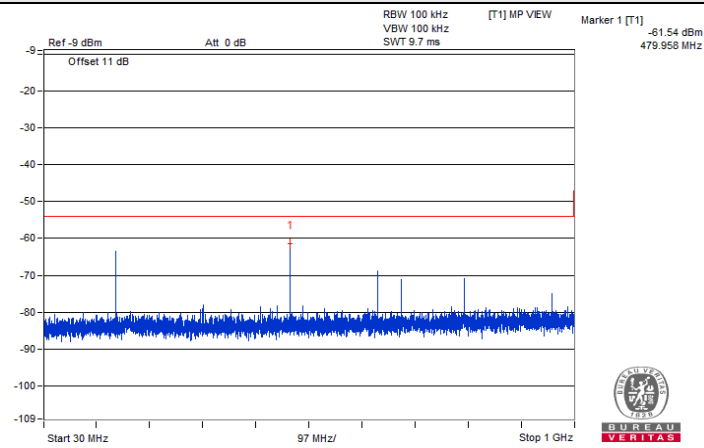


CH 7 (2442MHz)

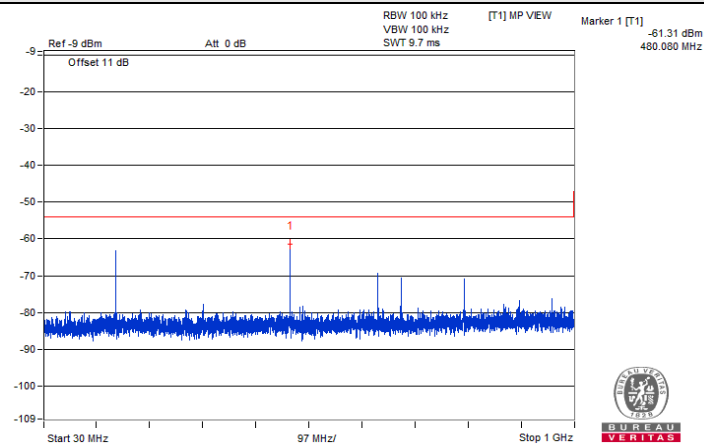
V_{normal}



V_{max}



V_{min}

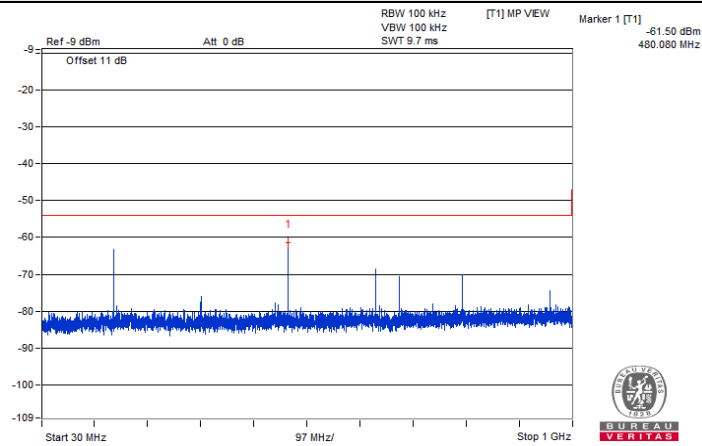


CH 13 (2472MHz)

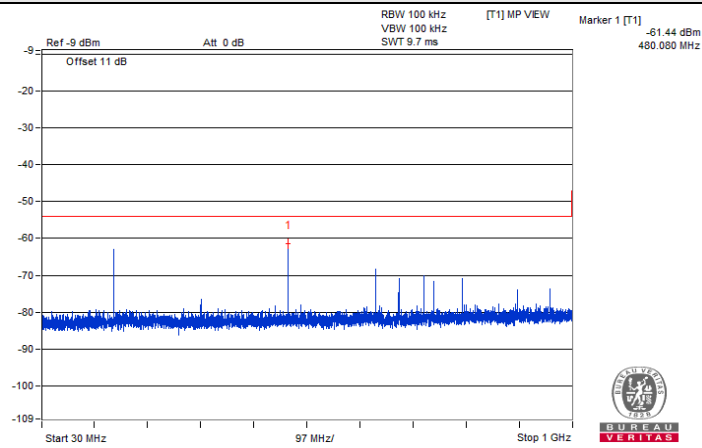
802.11n (HT40)

TEST CHANNEL		CH 3 (2422MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASURE. VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	480.080	0.707946	4.0	PASS
V _{max.}	30.0 to 1000.0	480.080	0.717794	4.0	PASS
V _{min.}	30.0 to 1000.0	480.080	0.706318	4.0	PASS
TEST CHANNEL		CH 7 (2442MHz)			
V _{normal}	30.0 to 1000.0	479.958	0.734514	4.0	PASS
V _{max.}	30.0 to 1000.0	480.080	0.736207	4.0	PASS
V _{min.}	30.0 to 1000.0	479.958	0.756833	4.0	PASS
TEST CHANNEL		CH 11 (2462MHz)			
V _{normal}	30.0 to 1000.0	480.080	0.769130	4.0	PASS
V _{max.}	30.0 to 1000.0	480.080	0.755092	4.0	PASS
V _{min.}	30.0 to 1000.0	480.080	0.712853	4.0	PASS

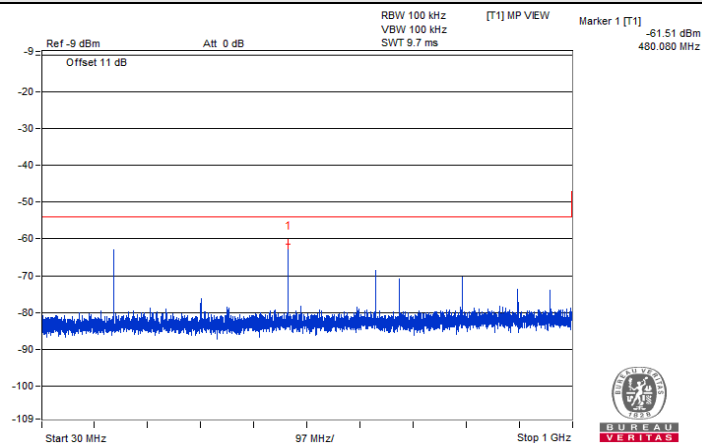
V_{normal}



V_{max}

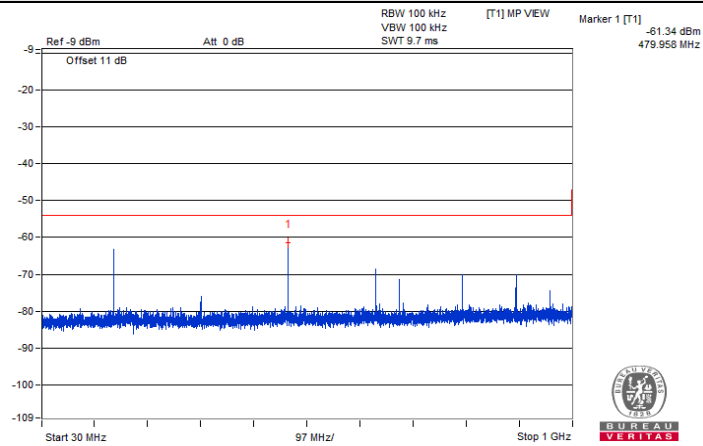


V_{min}

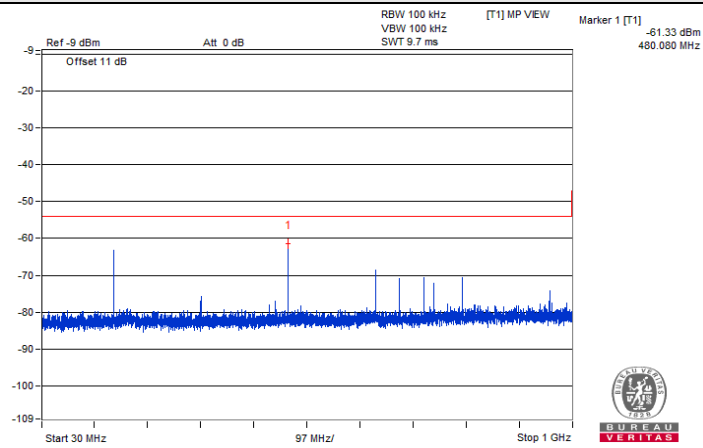


CH 3 (2422MHz)

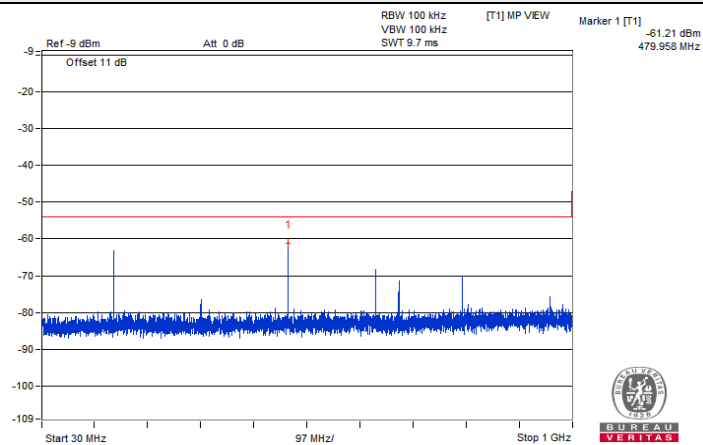
V_{normal}



V_{max}

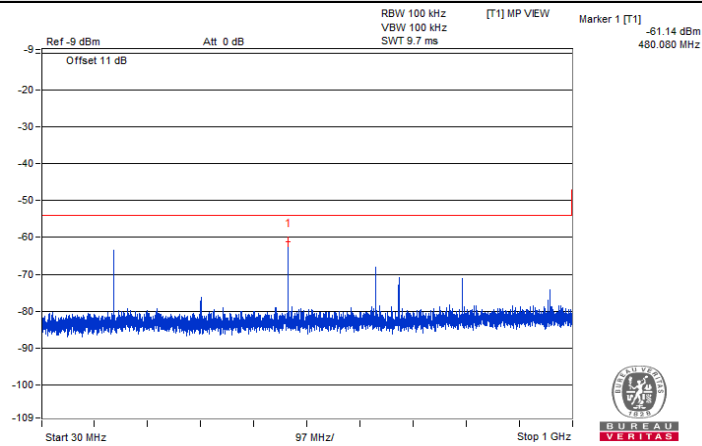


V_{min}

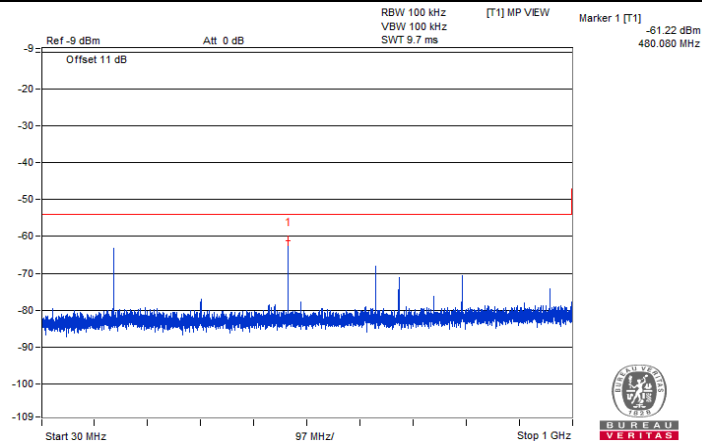


CH 7 (2442MHz)

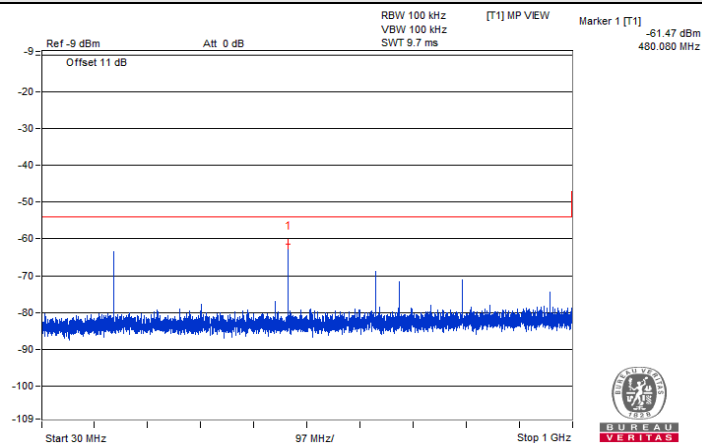
V_{normal}



V_{max}

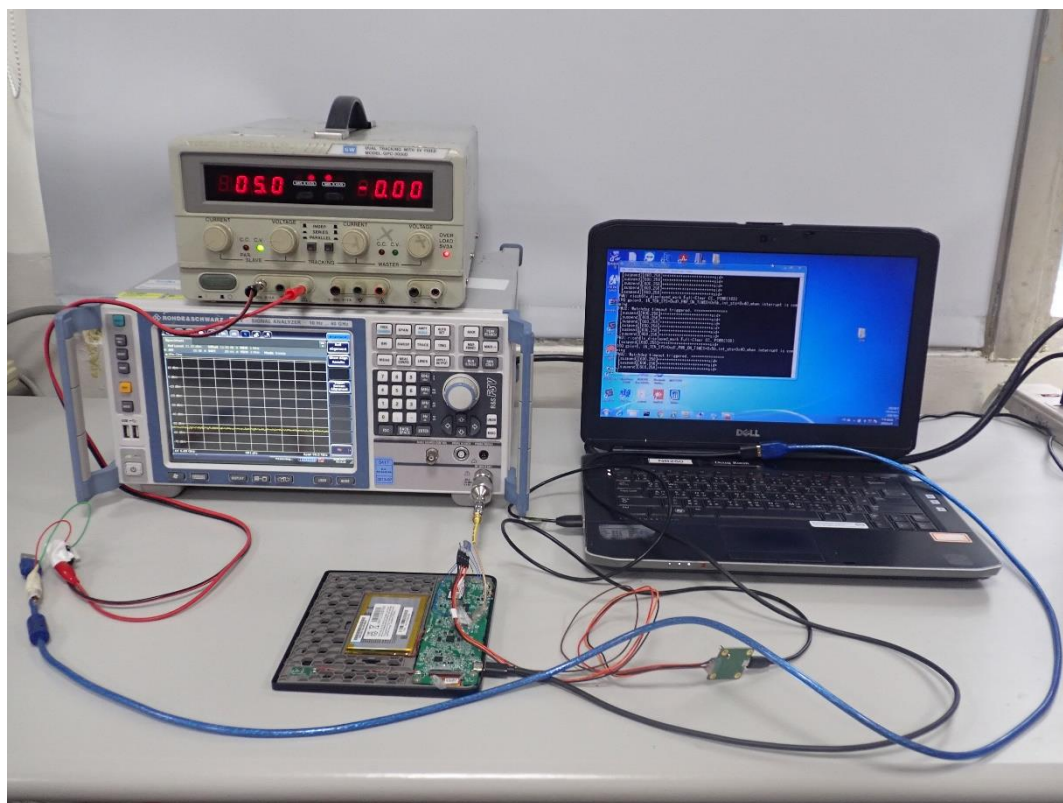


V_{min}



CH 11 (2462MHz)

5 Photographs of the Test Configuration



6 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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