

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
Report No.: RFBARR-WTW-P26020165-2
FCC ID: RAS-MT7928C14L
Product: 2TX 11be (WiFi7) BW160+BT/BLE Combo Card
Brand: MediaTek
Model No.: MT7928C14L
Received Date: 2026/2/21
Test Date: 2026/5/19 ~ 2026/7/6
Issued Date: 2026/8/19
Applicant: MediaTek Inc.
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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / (1) 788550 / TW0003
Designation Number: (2) 281270 / TW0032

Approved by: Jeremy Lin, **Date:** 2026/8/19
Jeremy Lin / Project Engineer

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Prepared by : Vera Huang / Specialist



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Table of Contents

Release Control Record	4
1 Certificate.....	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Supplementary Information	6
3 General Information	7
3.1 General Description	7
3.2 Antenna Description of EUT	8
3.3 Channel List	9
3.4 Test Mode Applicability and Tested Channel Detail	10
3.5 Duty Cycle of Test Signal	11
3.6 Test Program Used and Operation Descriptions	13
3.7 Connection Diagram of EUT and Peripheral Devices	13
3.8 Configuration of Peripheral Devices and Cable Connections	14
4 Test Instruments	15
4.1 RF Output Power	15
4.2 Power Spectral Density	15
4.3 6 dB Bandwidth	15
4.4 Conducted Out of Band Emissions	15
4.5 AC Power Conducted Emissions	16
4.6 Unwanted Emissions below 1 GHz	17
4.7 Unwanted Emissions above 1 GHz	18
5 Limits of Test Items	19
5.1 RF Output Power	19
5.2 Power Spectral Density	19
5.3 6 dB Bandwidth	19
5.4 Conducted Out of Band Emissions	19
5.5 AC Power Conducted Emissions	19
5.6 Unwanted Emissions below 1 GHz	20
5.7 Unwanted Emissions above 1 GHz	20
6 Test Arrangements	21
6.1 RF Output Power	21
6.1.1 Test Setup	21
6.1.2 Test Procedure	21
6.2 Power Spectral Density	21
6.2.1 Test Setup	21
6.2.2 Test Procedure	21
6.3 6 dB Bandwidth	22
6.3.1 Test Setup	22
6.3.2 Test Procedure	22
6.4 Conducted Out of Band Emissions	23
6.4.1 Test Setup	23
6.4.2 Test Procedure	23
6.5 AC Power Conducted Emissions	24
6.5.1 Test Setup	24
6.5.2 Test Procedure	24
6.6 Unwanted Emissions below 1 GHz	25
6.6.1 Test Setup	25
6.6.2 Test Procedure	26
6.7 Unwanted Emissions above 1 GHz	28
6.7.1 Test Setup	28
6.7.2 Test Procedure	29
7 Test Results of Test Item	31

7.1	RF Output Power.....	31
7.2	Power Spectral Density	35
7.3	6 dB Bandwidth	39
7.4	Conducted Out of Band Emissions	43
7.5	AC Power Conducted Emissions	51
7.6	Unwanted Emissions below 1 GHz	55
7.7	Unwanted Emissions above 1 GHz.....	59
8	Pictures of Test Arrangements	123
9	Information of the Testing Laboratories	124

Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P26020165-2	Original Release	2026/8/19

1 Certificate

Product: 2TX 11be (WiFi7) BW160+BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7928C14L

Sample Status: Engineering sample

Applicant: MediaTek Inc.

Test Date: 2026/5/19 ~ 2026/7/6

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Measurement procedure: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024
KDB 558074 D01 15.247 Meas Guidance v05r02

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.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
Standard / Clause	Test Item	Result	Remark
15.247(b)	RF Output Power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.247(d)	Conducted Out of Band Emissions	Pass	Meet the requirement of limit.
15.207	AC Power Conducted Emissions	Pass	Minimum passing margin is -12.69 dB at 0.16600 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -1.6 dB at 299.66 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -8.57 dB at 7441.32 MHz
15.203	Antenna Requirement	Pass	Antenna connector is i-pex(MHF) & R-SMA not a standard connector.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.79 dB
AC Power Conducted Emissions	9 kHz ~ 30 MHz	3.23 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.92 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description

Product	2TX 11be (WiFi7) BW160+BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7928C14L
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	GFSK
Modulation Technology	DTS
Transfer Rate	1 Mbps / 2 Mbps / 125 kbps / 500 kbps
Operating Frequency	2.402 GHz ~ 2.48 GHz
Number of Channel	40
Output Power	76.208 mW (18.82 dBm)

Note:

1. There are Bluetooth and WLAN (2.4 GHz & 5 GHz & 6 GHz) technology used for the EUT.
2. Simultaneously transmission combination.

Two combinations	
Combination	Technology
1	WLAN 2.4G (WIFI1) + WLAN 5G (WIFI0)
2	WLAN 2.4G (WIFI1) + WLAN 5.9G (WIFI0)
3	WLAN 2.4G (WIFI1) + WLAN 6G (WIFI0)
4	BT (BT0) + BT (BT1)
5	WLAN 2.4G (2T) + BT (BT0)
6	WLAN 2.4G (WIFI0) + BT (BT0) + BT (BT1)
7	WLAN 2.4G (WIFI0) + BT (BT0)
8	WLAN 2.4G (WIFI0) + BT (BT1)
9	WLAN 2.4G (WIFI1) + BT (BT1)
10	WLAN 5G (2T) + BT (BT0) + BT (BT1)
11	WLAN 5G (2T) + BT (1T) BT0 or BT1
12	WLAN 5G (1T) + BT (BT0) + BT (BT1)
13	WLAN 5G (1T) + BT (1T) BT0 or BT1
14	WLAN 5.9G (2T) + BT (BT0) + BT (BT1)
15	WLAN 5.9G (2T) + BT (1T) BT0 or BT1
16	WLAN 5.9G (1T) + BT (BT0) + BT (BT1)
17	WLAN 5.9G (1T) + BT (1T) BT0 or BT1
18	WLAN 6G (2T) + BT (BT0) + BT (BT1)
19	WLAN 6G (2T) + BT (1T) BT0 or BT1
20	WLAN 6G (1T) + BT (BT0) + BT (BT1)
21	WLAN 6G (1T) + BT (1T) BT0 or BT1
Three combinations	
Combination	Technology
22	WLAN 2.4G (WIFI1) + WLAN 5G (WIFI0) + BT (BT1)
23	WLAN 2.4G (WIFI1) + WLAN 5.9G (WIFI0) + BT (BT1)
24	WLAN 2.4G (WIFI1) + WLAN 6G (WIFI0) + BT (BT1)

Note:

- a. The emission of the simultaneous operation has been evaluated and no non-compliance was found.
- b. BT0 and BT1 cannot operate on the same frequency simultaneously.

3. 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 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency range (GHz)	Antenna Type	Connector Type	*Cable Length (mm)	*Cable Loss (dB)	Excluding Cable Loss Ant. Gain (dBi)
1	Chain0	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.895	PIFA	i-pex(MHF)	200	-	-
	Chain1	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.895	PIFA	i-pex(MHF)	200	-	-
2	Chain0	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200	-	-
	Chain1	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200	-	-
3	Chain0	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 5.15~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	R-SMA (RF cable: R-SMA to lpex)	40	0.5 0.5 0.5 0.5 0.5 0.5	2.12 3.7 4.43 4.11 4.11 3.64
	Chain1	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 5.15~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	R-SMA (RF cable: R-SMA to lpex)	40	0.5 0.5 0.5 0.5 0.5 0.5	2.12 3.7 4.43 4.11 4.11 3.64
4	Chain0	Cortec	AM2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.895	Dipole	R-SMA (RF cable: R-SMA to lpex)	150	0.5 0.8	2.92 4.67
	Chain1	Cortec	AM2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.895	Dipole	R-SMA (RF cable: R-SMA to lpex)	150	0.5 0.8	2.92 4.67

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

3.3 Channel List

40 channels are provided for BT-LE:

RF Channel	RF Center Frequency	Channel Index	Channels Type for BT 6.0	
			2Msym/s with Data Rate 2Mbps	1Msym/s with Data Rate 1Mbps / 500kbps / 125kbps
0	2402 MHz	37	*	•
1	2404 MHz	0	•	•
2	2406 MHz	1	•	•
3	2408 MHz	2	•	•
4	2410 MHz	3	•	•
5	2412 MHz	4	•	•
6	2414 MHz	5	•	•
7	2416 MHz	6	•	•
8	2418 MHz	7	•	•
9	2420 MHz	8	•	•
10	2422 MHz	9	•	•
11	2424 MHz	10	•	•
12	2426 MHz	38	*	•
13	2428 MHz	11	•	•
14	2430 MHz	12	•	•
15	2432 MHz	13	•	•
16	2434 MHz	14	•	•
17	2436 MHz	15	•	•
18	2438 MHz	16	•	•
19	2440 MHz	17	•	•
20	2442 MHz	18	•	•
21	2444 MHz	19	•	•
22	2446 MHz	20	•	•
23	2448 MHz	21	•	•
24	2450 MHz	22	•	•
25	2452 MHz	23	•	•
26	2454 MHz	24	•	•
27	2456 MHz	25	•	•
28	2458 MHz	26	•	•
29	2460 MHz	27	•	•
30	2462 MHz	28	•	•
31	2464 MHz	29	•	•
32	2466 MHz	30	•	•
33	2468 MHz	31	•	•
34	2470 MHz	32	•	•
35	2472 MHz	33	•	•
36	2474 MHz	34	•	•
37	2476 MHz	35	•	•
38	2478 MHz	36	•	•
39	2480 MHz	39	*	•

* The channels 2402 MHz, 2426 MHz and 2480 MHz are used for primary advertising only, and these advertisement packets are never being sent over the 2Msym/s.

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). 2. For BT configuration of mode B unwanted emissions above 1 GHz test, transmit chain 0 and chain 1 have been evaluated, the chain 0 was the worst case and chosen for representative test.
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Following channel(s) was (were) selected for the final test as listed below:

Test Item	EUT Configure Mode	Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	A1, A2	BT-LE 1M	0, 19, 39	GFSK	1Mb/s
		BT-LE 2M	1, 19, 38	GFSK	2Mb/s
		BT-LE 125k	0, 19, 39	GFSK	125k/s
		BT-LE 500k	0, 19, 39	GFSK	500k/s
Power Spectral Density	A1, A2	BT-LE 1M	0, 19, 39	GFSK	1Mb/s
		BT-LE 2M	1, 19, 38	GFSK	2Mb/s
		BT-LE 125k	0, 19, 39	GFSK	125k/s
		BT-LE 500k	0, 19, 39	GFSK	500k/s
6 dB Bandwidth / Conducted Out of Band Emissions	A1, A2	BT-LE 1M	0, 19, 39	GFSK	1Mb/s
		BT-LE 2M	1, 19, 38	GFSK	2Mb/s
		BT-LE 125k	0, 19, 39	GFSK	125k/s
		BT-LE 500k	0, 19, 39	GFSK	500k/s
AC Power Conducted Emissions	C1, C2	BT-LE 2M	19	GFSK	2Mb/s
Unwanted Emissions below 1 GHz	A1, B	BT-LE 2M	1	GFSK	2Mb/s
	A2	BT LE-125k	39	GFSK	125k/s
Unwanted Emissions above 1 GHz	A1, A2, B	BT-LE 1M	0, 19, 39	GFSK	1Mb/s
		BT-LE 2M	1, 19, 38	GFSK	2Mb/s
		BT-LE 125k	0, 19, 39	GFSK	125k/s
		BT-LE 500k	0, 19, 39	GFSK	500k/s
EUT Configure Mode:	A1	EUT only (BT0) (remove 50 ohm terminator and Connect to the appropriate equipment)			
	A2	EUT only (BT1) (remove 50 ohm terminator and Connect to the appropriate equipment)			
	B	EUT with 50 ohm terminator			
	C1	EUT with antenna 1 (PIFA antenna) (BT0+BT1)			
	C2	EUT with antenna 4 (Dipole antenna) (BT0+BT1)			

3.5 Duty Cycle of Test Signal

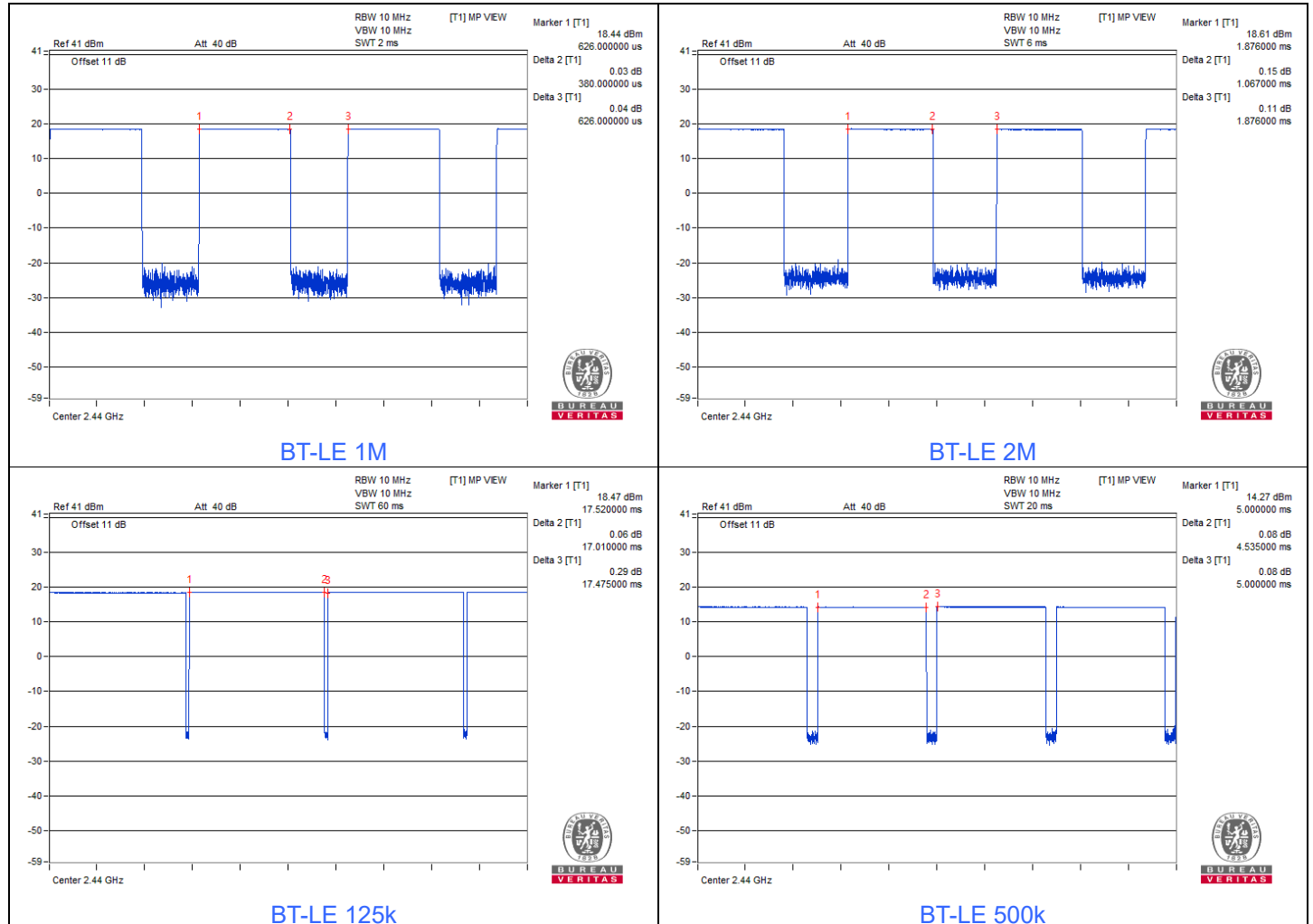
Mode A1

BT-LE 1M: Duty cycle = $0.38 \text{ ms} / 0.626 \text{ ms} \times 100\% = 60.7\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 2.17 \text{ dB}$

BT-LE 2M: Duty cycle = $1.067 \text{ ms} / 1.876 \text{ ms} \times 100\% = 56.9\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 2.45 \text{ dB}$

BT-LE 125k: Duty cycle = $17.01 \text{ ms} / 17.475 \text{ ms} \times 100\% = 97.3\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.12 \text{ dB}$

BT-LE 500k: Duty cycle = $4.535 \text{ ms} / 5 \text{ ms} \times 100\% = 90.7\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.42 \text{ dB}$



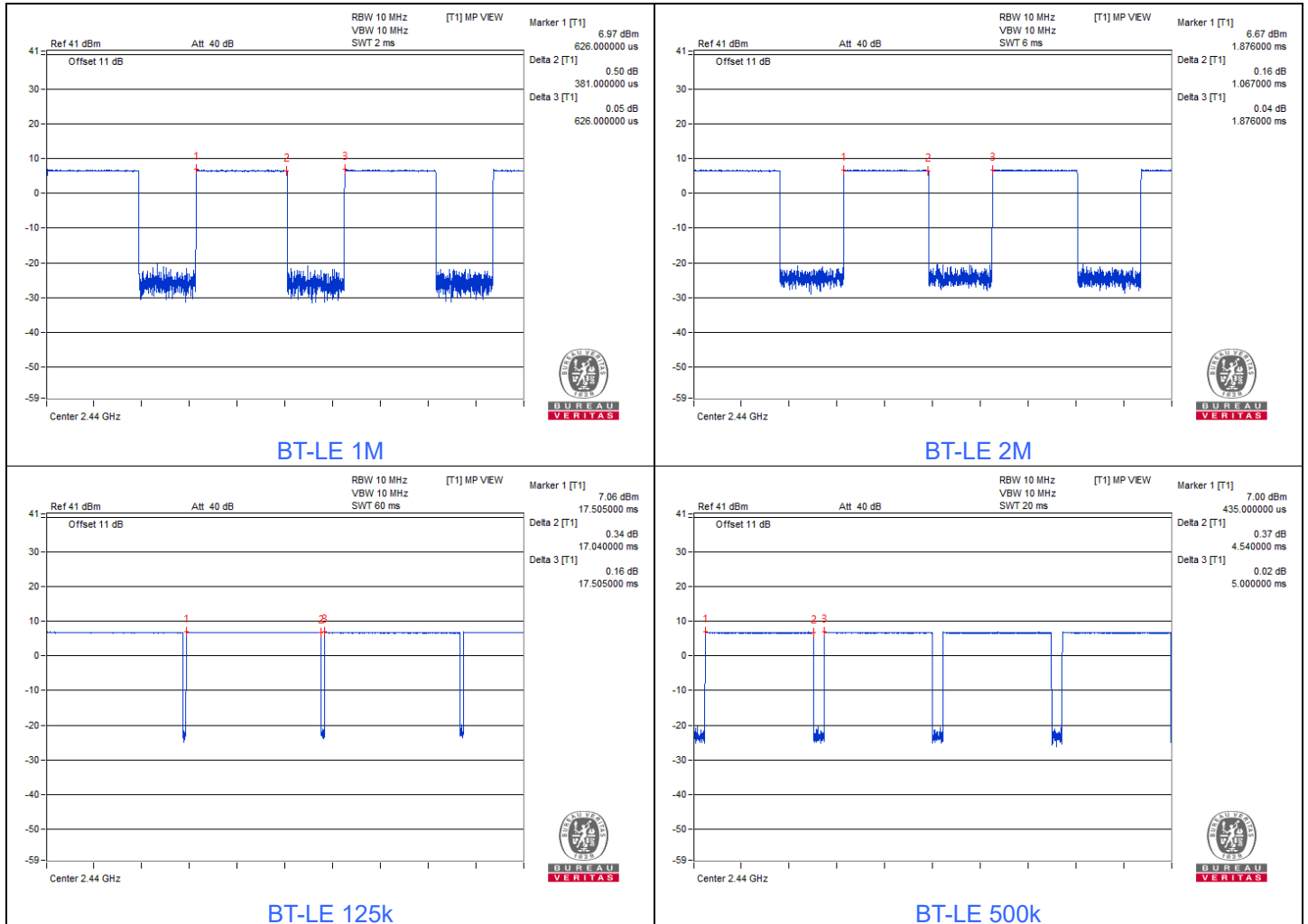
Mode A2

BT-LE 1M: Duty cycle = $0.381 \text{ ms} / 0.626 \text{ ms} \times 100\% = 60.9\%$, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.16 \text{ dB}$

BT-LE 2M: Duty cycle = $1.067 \text{ ms} / 1.876 \text{ ms} \times 100\% = 56.9\%$, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 2.45 \text{ dB}$

BT-LE 125k: Duty cycle = $17.04 \text{ ms} / 17.505 \text{ ms} \times 100\% = 97.3\%$, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.12 \text{ dB}$

BT-LE 500k: Duty cycle = $4.54 \text{ ms} / 5 \text{ ms} \times 100\% = 90.8\%$, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.42 \text{ dB}$

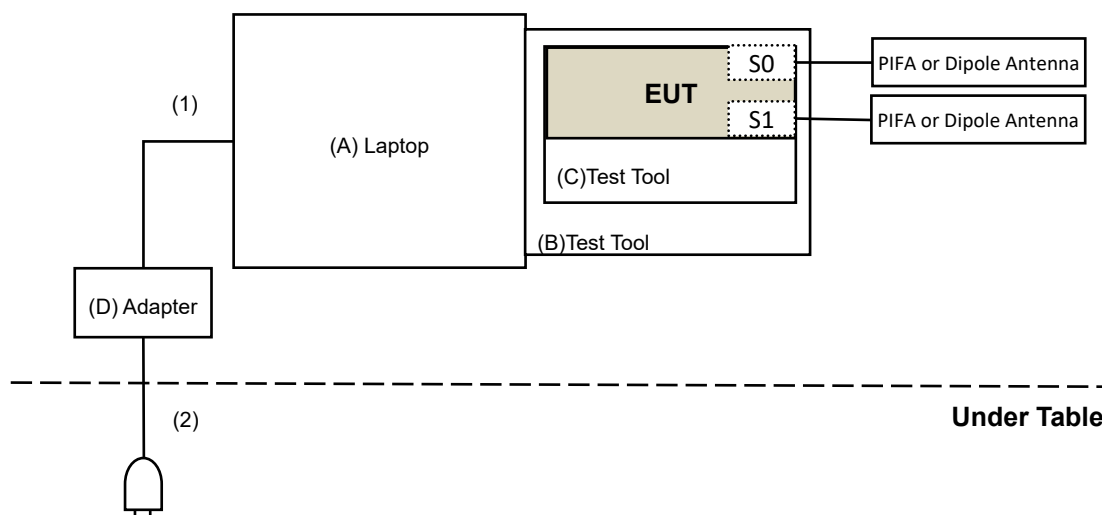


3.6 Test Program Used and Operation Descriptions

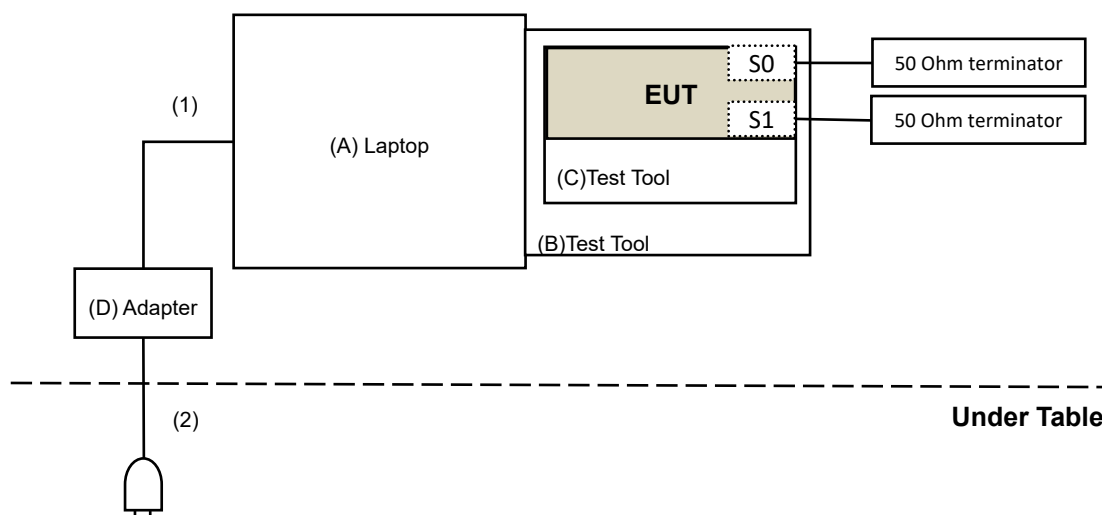
Controlling software QATool Version 0.0.2.119 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For AC Power Conducted Emission Test



For Unwanted Emissions test



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	DELL	E6230	H148YW1	N/A	Provided by Lab
B	Test Tool	Mediatek	MTK1849	N/A	N/A	Supplied by applicant
C	Test Tool	Mediatek	MTK5917	N/A	N/A	Supplied by applicant
D	Adapter	DELL	LA65NM130	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	0	Provided by Lab
2	AC Cable	1	1	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Peak Power Analyzer Keysight	8990B	MY51000538	2025/5/23	2026/5/22
USB Power Sensor Anritsu	MA24408A	12994	2025/12/5	2026/12/4
Wideband Power Sensor Keysight	N1923A	MY58200003	2025/5/29	2026/5/28

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/5/19 ~ 2026/5/20

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal Analyzer R&S	FSV40	100980	2026/5/14	2027/5/13
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/5/19 ~ 2026/5/20

4.3 6 dB Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get the tested date and information of the instruments.

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	E1-011279	04	2025/12/4	2026/12/3
	E1-011280	05	2025/12/4	2026/12/3
	E1-011311	09	2025/12/4	2026/12/3
DC LISN Schwarzbeck	NNBM 8126G	8126G-069	2025/11/3	2026/11/2
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01445	2026/4/18	2027/4/17
EMI Test Receiver R&S	ESCI	100613	2025/11/27	2026/11/26
Extension Power Line EMCI	EMCI-EXP-EU-US	023	2026/3/6	2027/3/5
LISN R&S	ENV216	101826	2026/3/6	2027/3/5
	ESH3-Z5	100311	2025/8/28	2026/8/27
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2026/1/3	2027/1/2
Software BVADT	BVADT_Conc_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2025/8/27	2026/8/26

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2026/7/3

4.6 Unwanted Emissions below 1 GHz

Conducted Measurement

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal Analyzer R&S	FSV40	100980	2026/5/14	2027/5/13
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/5/19

Radiated Measurement

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower KaiTuo	N/A	N/A	N/A	N/A
Antenna Tower Controller KaiTuo	KT-2000	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-995	2025/9/17	2026/9/16
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
MXE EMI Receiver Agilent	N9038A	MY52260177	2025/10/3	2026/10/2
Preamplifier EMCI	EMC330N	980783	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201245	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-3000	201250	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-9000	201252(with PAD)	2026/1/13	2027/1/12
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208675	N/A	N/A
UXA Signal Analyzer Keysight	N9040B	MY59490105	2026/1/14	2027/1/13

Notes:

1. The test was performed in WM - 966 chamber 7(Wenming).
2. Tested Date: 2026/7/4

4.7 Unwanted Emissions above 1 GHz

Conducted Measurement

Refer to section 4.6 to get the tested date and information of the instruments.

Radiated Measurement

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower KaiTuo	N/A	N/A	N/A	N/A
Antenna Tower Controller KaiTuo	KT-2000	N/A	N/A	N/A
Horn Antenna RFSPIN	DRH18-E	210104A18E	2025/11/9	2026/11/8
Horn Antenna Schwarzbeck	BBHA 9170	9170-1048	2025/11/9	2026/11/8
MXE EMI Receiver Agilent	N9038A	MY52260177	2025/10/3	2026/10/2
Preamplifier EMCI	EMC118A45SE	980810	2025/12/24	2026/12/23
	EMC184045SE	980787	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2026/1/13	2027/1/12
		201255	2026/1/13	2027/1/12
	EMC101G-KM-KM-5000	201261	2026/1/13	2027/1/12
	EMC104-SM-SM-1000	210101	2026/1/13	2027/1/12
	EMC104-SM-SM-3000	201242	2026/1/13	2027/1/12
	EMC104-SM-SM-9000	201230	2026/1/13	2027/1/12
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208675	N/A	N/A
UXA Signal Analyzer Keysight	N9040B	MY59490105	2026/1/14	2027/1/13

Notes:

1. The test was performed in WM - 966 chamber 7(Wenming).
2. Tested Date: 2026/7/4 ~ 2026/7/6

5 Limits of Test Items

5.1 RF Output Power

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

5.2 Power Spectral Density

The maximum of power spectral density measurement is 8 dBm in any 3 kHz.

5.3 6 dB Bandwidth

The minimum of 6 dB bandwidth measurement is 0.5 MHz.

5.4 Conducted Out of Band Emissions

Below 20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

5.5 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.6 Unwanted Emissions below 1 GHz

Radiated emissions up to 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.7 Unwanted Emissions above 1 GHz

Radiated emissions above 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

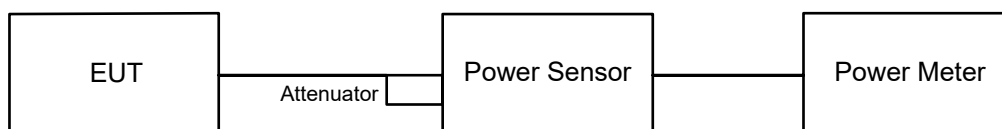
Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



Note: The correction factor has already been compensated by the instrument.

6.1.2 Test Procedure

Peak Power:

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

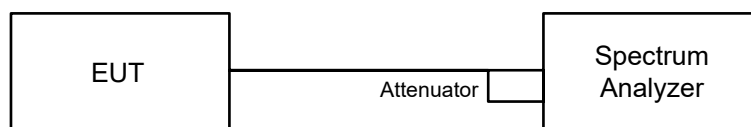
The power meter video bandwidth is greater than or equal to the DTS bandwidth and use a fast responding diode detector.

Average Power:

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

6.2 Power Spectral Density

6.2.1 Test Setup



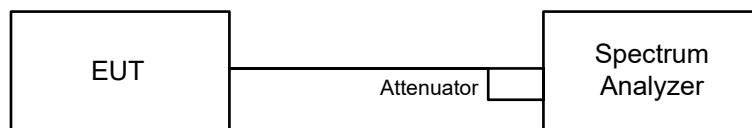
Note: The correction factor has already been compensated by the instrument.

6.2.2 Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span > 1.5 times the DTS bandwidth.
- Set the RBW to: 3 kHz.
- Set the VBW $\geq 3 \times$ RBW.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

6.3 6 dB Bandwidth

6.3.1 Test Setup



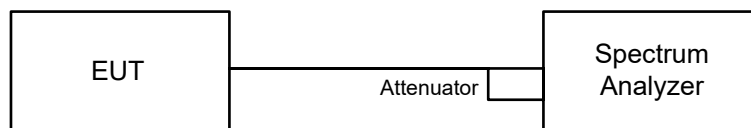
Note: The correction factor has already been compensated by the instrument.

6.3.2 Test Procedure

- a. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b. Set the VBW $\geq [3 \times \text{RBW}]$.
- c. Detector = peak.
- d. Trace mode = max-hold.
- e. Sweep = No faster than coupled (auto) time.
- f. Allow the trace to stabilize.
- g. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



Note: The correction factor has already been compensated by the instrument.

6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

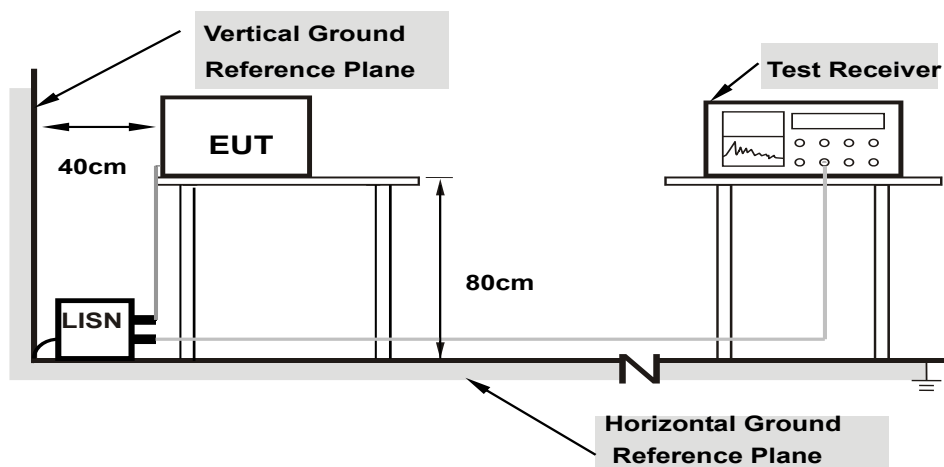
- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

MEASUREMENT PROCEDURE OOB

- Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.
- Set RBW = 100 kHz.
- Set VBW ≥ 300 kHz.
- Detector = peak.
- Sweep = No faster than coupled (auto) time.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

6.5 AC Power Conducted Emissions

6.5.1 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.5.2 Test Procedure

- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

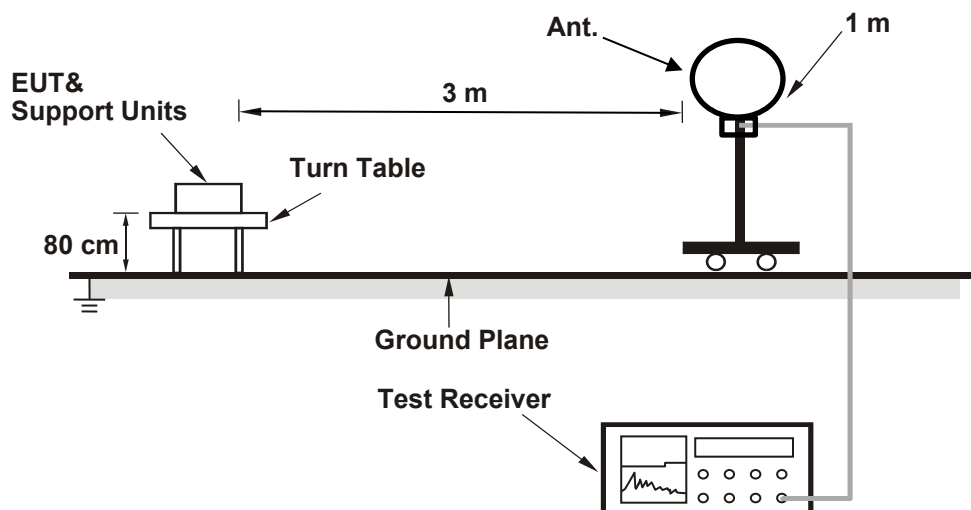
Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

6.6 Unwanted Emissions below 1 GHz

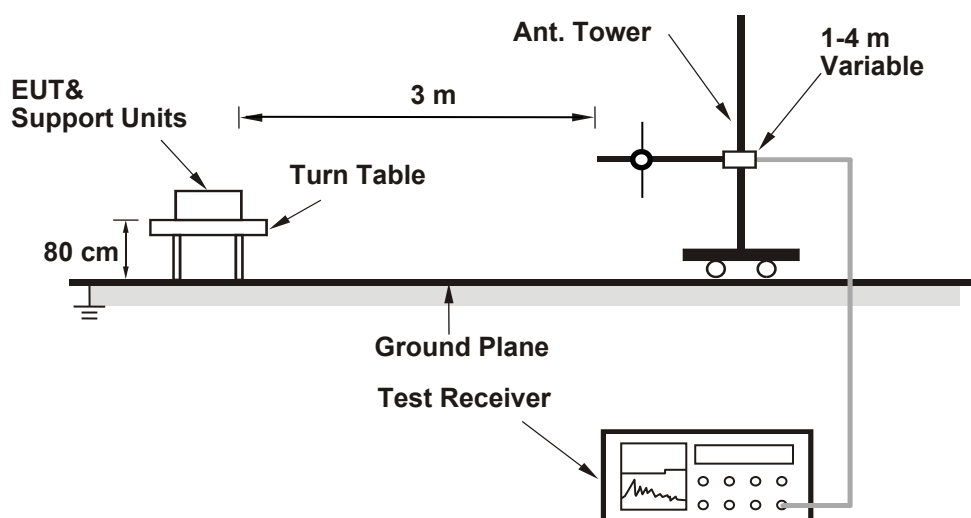
6.6.1 Test Setup

For Radiated Configuration:

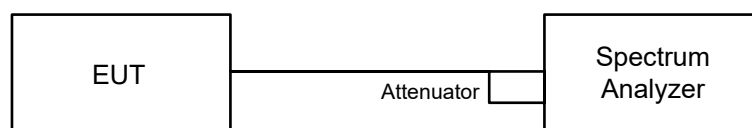
For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For Conducted Configuration:



Note: The correction factor has already been compensated by the instrument.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.6.2 Test Procedure

Radiated versus Conducted Measurement.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
- c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
- d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- e. For all of Radiation emission test

For Radiated emission below 30 MHz

- e-1.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- e-1.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-1.3. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- e-1.4. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e-1.5. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode (however, peak detector measurements may be used to determine compliance with QP requirements), except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

- e-2.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- e-2.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-2.3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e-2.4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e-2.5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequencies less than or equal to 1 GHz (however, peak detector measurements may be used to determine compliance with QP requirements).
2. All modes of operation were investigated and the worst-case emissions are reported.

Radiated versus Conducted Measurement

For Radiated measurement:

The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).

For Conducted measurement:

The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).

Conducted Unwanted Emission Convert Formula

- a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB)
- c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal.
For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.
For the band edge the gain for the specific band may have been used.

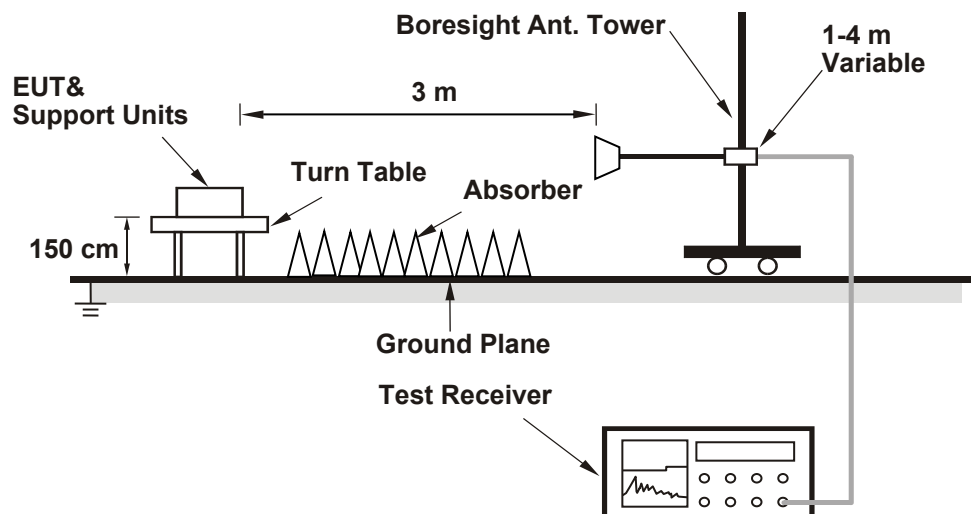
Notes:

1. In restricted bands below 1000 MHz, add upper bound on ground plane reflection:
For frequencies between 30 MHz and 1000 MHz, add 4.7 dB.
2. The conducted emission test was considered some factor to compute test result.

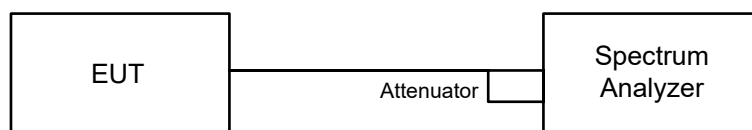
6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup

For Radiated Configuration:



For Conducted Configuration:



Note: The correction factor has already been compensated by the instrument.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

Radiated versus Conducted Measurement.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
- c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
- d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- e. For all of Radiation emission test
 - e-1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
 - e-2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - e-3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
 - e-4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
 - e-5. The test-receiver/spectrum analyzer was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

Radiated versus Conducted Measurement

For Radiated measurement:

The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).

For Conducted measurement:

The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).

For Verified radiated measurement:

The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).

Conducted Unwanted Emission Convert Formula

a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB).

c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal.

For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.

For the band edge the gain for the specific band may have been used.

Note: The conducted emission test was considered some factor to compute test result.

7 Test Results of Test Item

7.1 RF Output Power

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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Mode A1

For Peak Power

BT-LE 1M

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	76.033	18.81	30	Pass
19	2440	75.509	18.78	30	Pass
39	2480	73.621	18.67	30	Pass

Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

BT-LE 2M

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2404	76.208	18.82	30	Pass
19	2440	75.336	18.77	30	Pass
38	2478	73.961	18.69	30	Pass

Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

BT-LE 125k

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	27.925	14.46	30	Pass
19	2440	27.606	14.41	30	Pass
39	2480	26.424	14.22	30	Pass

Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

BT-LE 500k

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	27.669	14.42	30	Pass
19	2440	27.542	14.40	30	Pass
39	2480	26.607	14.25	30	Pass

Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

For Average Power

BT-LE 1M

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	73.961	18.69
19	2440	73.451	18.66
39	2480	71.779	18.56

BT-LE 2M

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2404	73.621	18.67
19	2440	72.611	18.61
38	2478	71.614	18.55

BT-LE 125k

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	26.792	14.28
19	2440	26.424	14.22
39	2480	25.645	14.09

BT-LE 500k

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	26.977	14.31
19	2440	26.792	14.28
39	2480	25.763	14.11

Mode A2

For Peak Power

BT-LE 1M

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	5.508	7.41	30	Pass
19	2440	5.445	7.36	30	Pass
39	2480	5.821	7.65	30	Pass

Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

BT-LE 2M

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2404	5.483	7.39	30	Pass
19	2440	5.458	7.37	30	Pass
38	2478	5.821	7.65	30	Pass

Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

BT-LE 125k

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	5.521	7.42	30	Pass
19	2440	5.508	7.41	30	Pass
39	2480	5.848	7.67	30	Pass

Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

BT-LE 500k

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	5.521	7.42	30	Pass
19	2440	5.47	7.38	30	Pass
39	2480	5.834	7.66	30	Pass

Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

For Average Power

BT-LE 1M

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	5.129	7.10
19	2440	5.093	7.07
39	2480	5.445	7.36

BT-LE 2M

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2404	5.105	7.08
19	2440	5.093	7.07
38	2478	5.408	7.33

BT-LE 125k

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	5.129	7.10
19	2440	5.105	7.08
39	2480	5.433	7.35

BT-LE 500k

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	5.14	7.11
19	2440	5.105	7.08
39	2480	5.433	7.35

7.2 Power Spectral Density

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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Mode A1

BT-LE 1M

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
0	2402	3.35	8	Pass
19	2440	3.30	8	Pass
39	2480	3.24	8	Pass

Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

BT-LE 2M

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2404	-0.25	8	Pass
19	2440	-0.27	8	Pass
38	2478	-0.21	8	Pass

Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

BT-LE 125k

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
0	2402	7.95	8	Pass
19	2440	7.89	8	Pass
39	2480	7.84	8	Pass

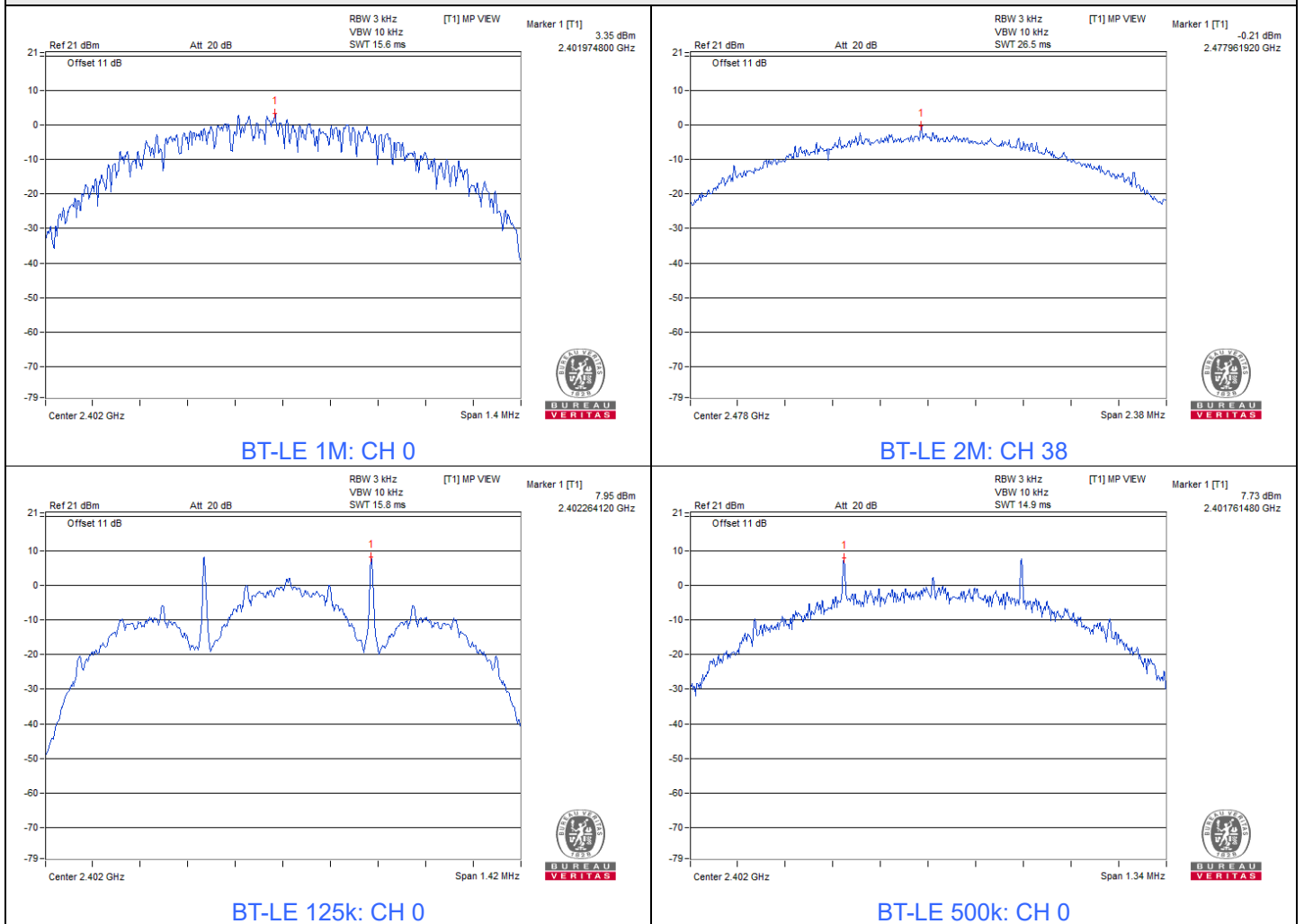
Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

BT-LE 500k

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
0	2402	7.73	8	Pass
19	2440	7.68	8	Pass
39	2480	7.58	8	Pass

Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

Spectrum Plot of Maximum Value



Mode A2

BT-LE 1M

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
0	2402	-8.78	8	Pass
19	2440	-8.79	8	Pass
39	2480	-8.53	8	Pass

Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

BT-LE 2M

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2404	-12.37	8	Pass
19	2440	-12.41	8	Pass
38	2478	-12.07	8	Pass

Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

BT-LE 125k

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
0	2402	0.31	8	Pass
19	2440	0.30	8	Pass
39	2480	0.52	8	Pass

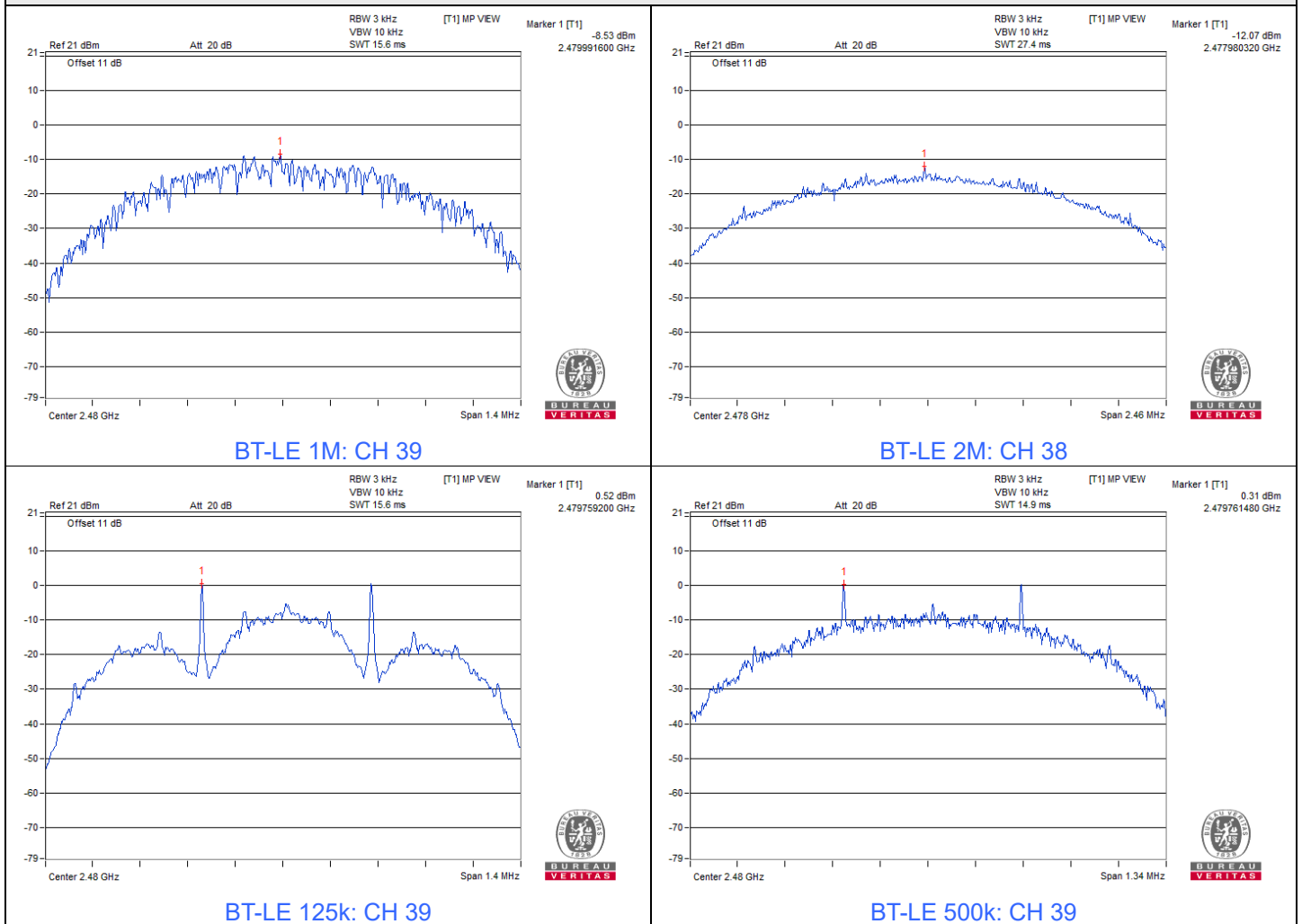
Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

BT-LE 500k

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
0	2402	0.09	8	Pass
19	2440	0.07	8	Pass
39	2480	0.31	8	Pass

Note: The antenna gain is 3.18 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

Spectrum Plot of Maximum Value



7.3 6 dB Bandwidth

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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Mode A1

BT-LE 1M

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.7	0.5	Pass
19	2440	0.69	0.5	Pass
39	2480	0.7	0.5	Pass

BT-LE 2M

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2404	1.19	0.5	Pass
19	2440	1.19	0.5	Pass
38	2478	1.19	0.5	Pass

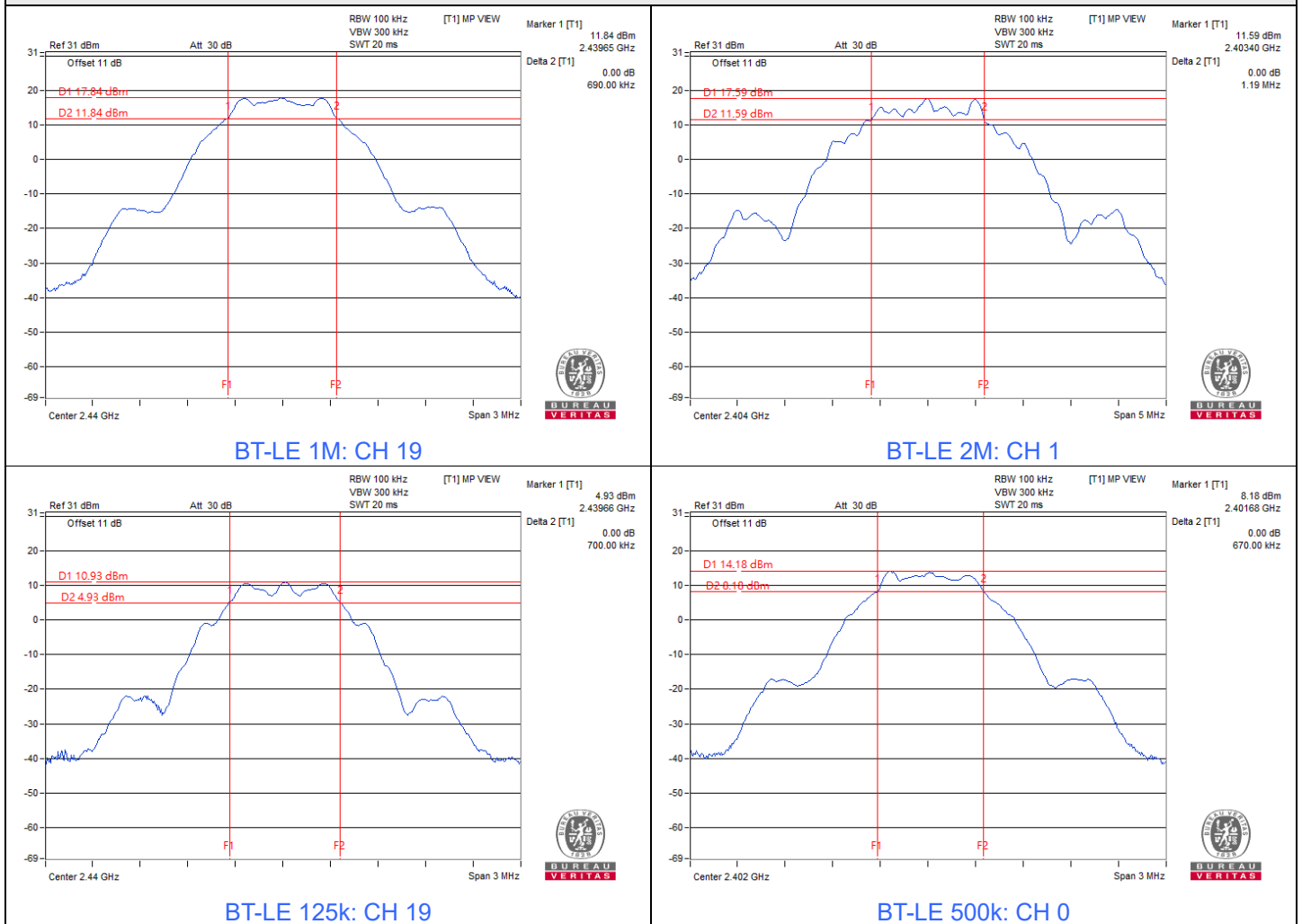
BT-LE 125k

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.71	0.5	Pass
19	2440	0.7	0.5	Pass
39	2480	0.7	0.5	Pass

BT-LE 500k

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.67	0.5	Pass
19	2440	0.67	0.5	Pass
39	2480	0.67	0.5	Pass

Spectrum Plot of Minimum Value



Mode A2

BT-LE 1M

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.7	0.5	Pass
19	2440	0.7	0.5	Pass
39	2480	0.7	0.5	Pass

BT-LE 2M

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2404	1.19	0.5	Pass
19	2440	1.19	0.5	Pass
38	2478	1.23	0.5	Pass

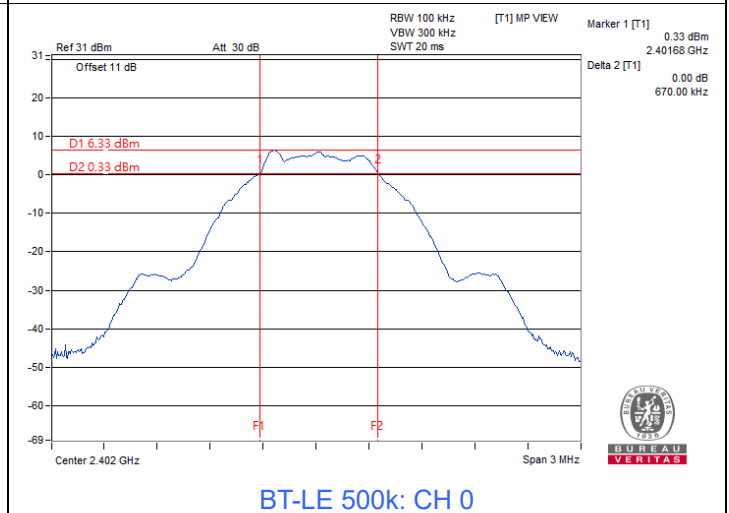
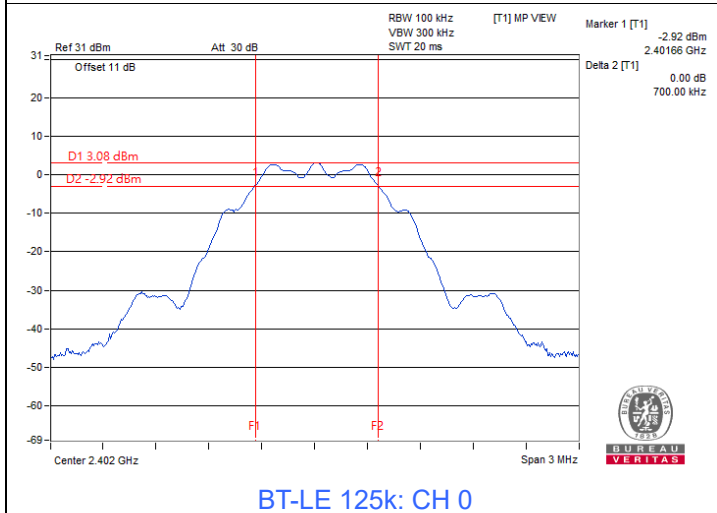
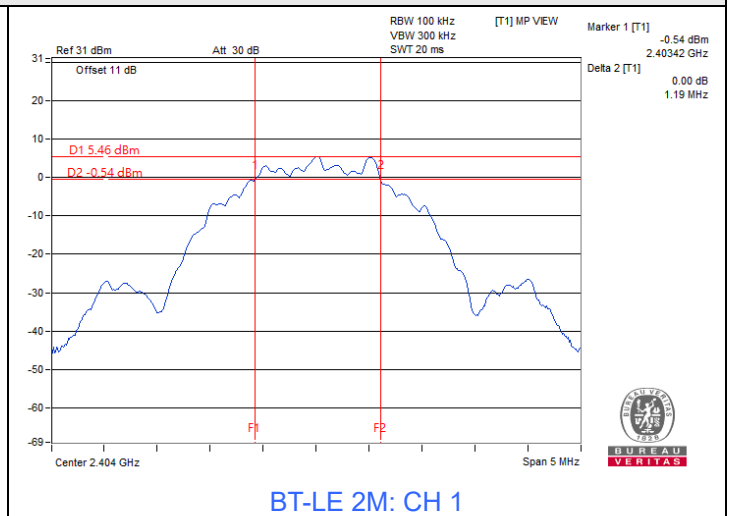
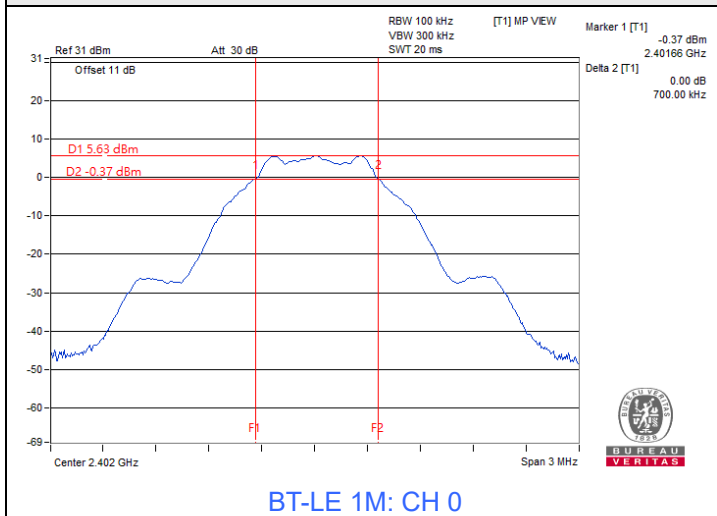
BT-LE 125k

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.7	0.5	Pass
19	2440	0.7	0.5	Pass
39	2480	0.7	0.5	Pass

BT-LE 500k

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.67	0.5	Pass
19	2440	0.67	0.5	Pass
39	2480	0.67	0.5	Pass

Spectrum Plot of Minimum Value

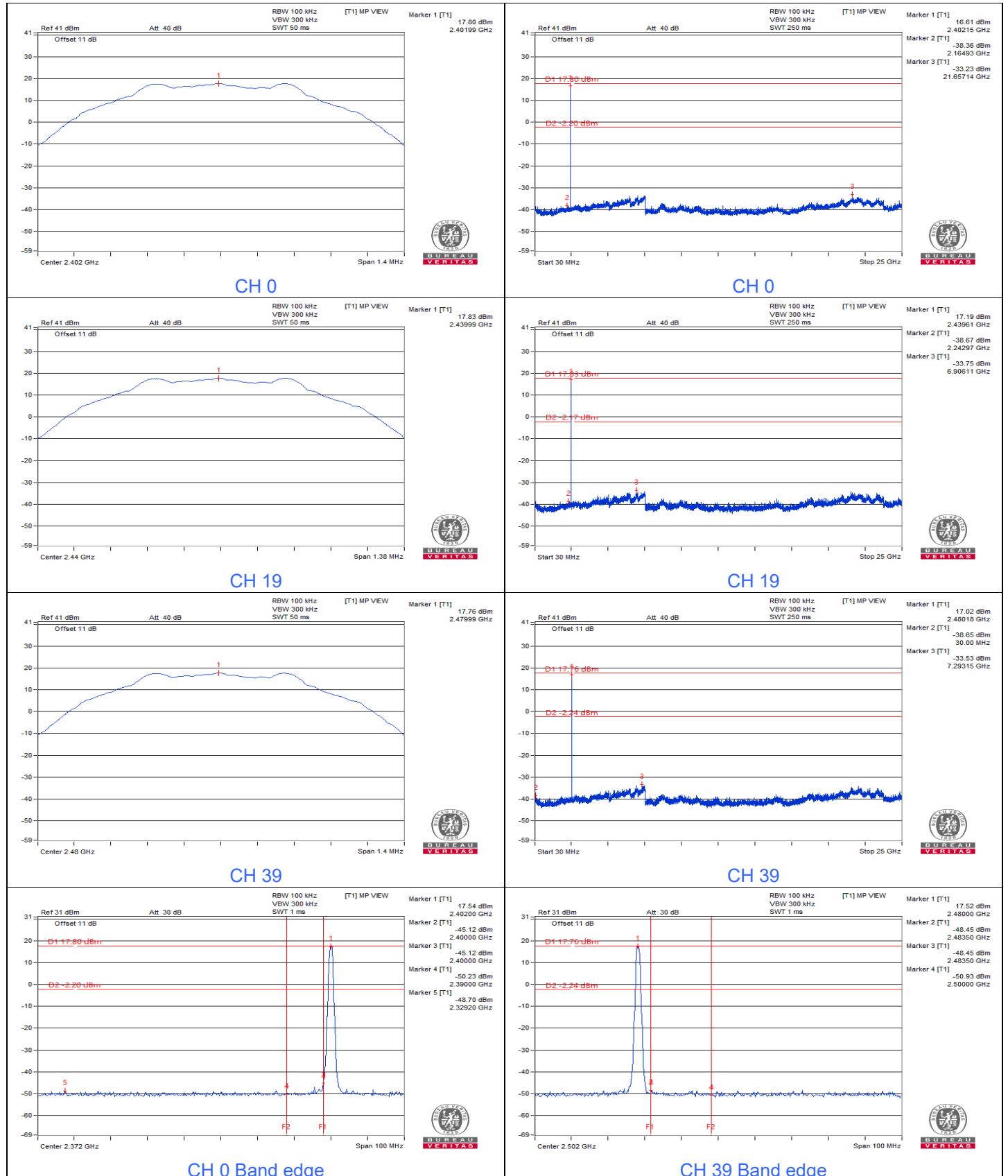


7.4 Conducted Out of Band Emissions

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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Mode A1

BT-LE 1M



BT-LE 2M



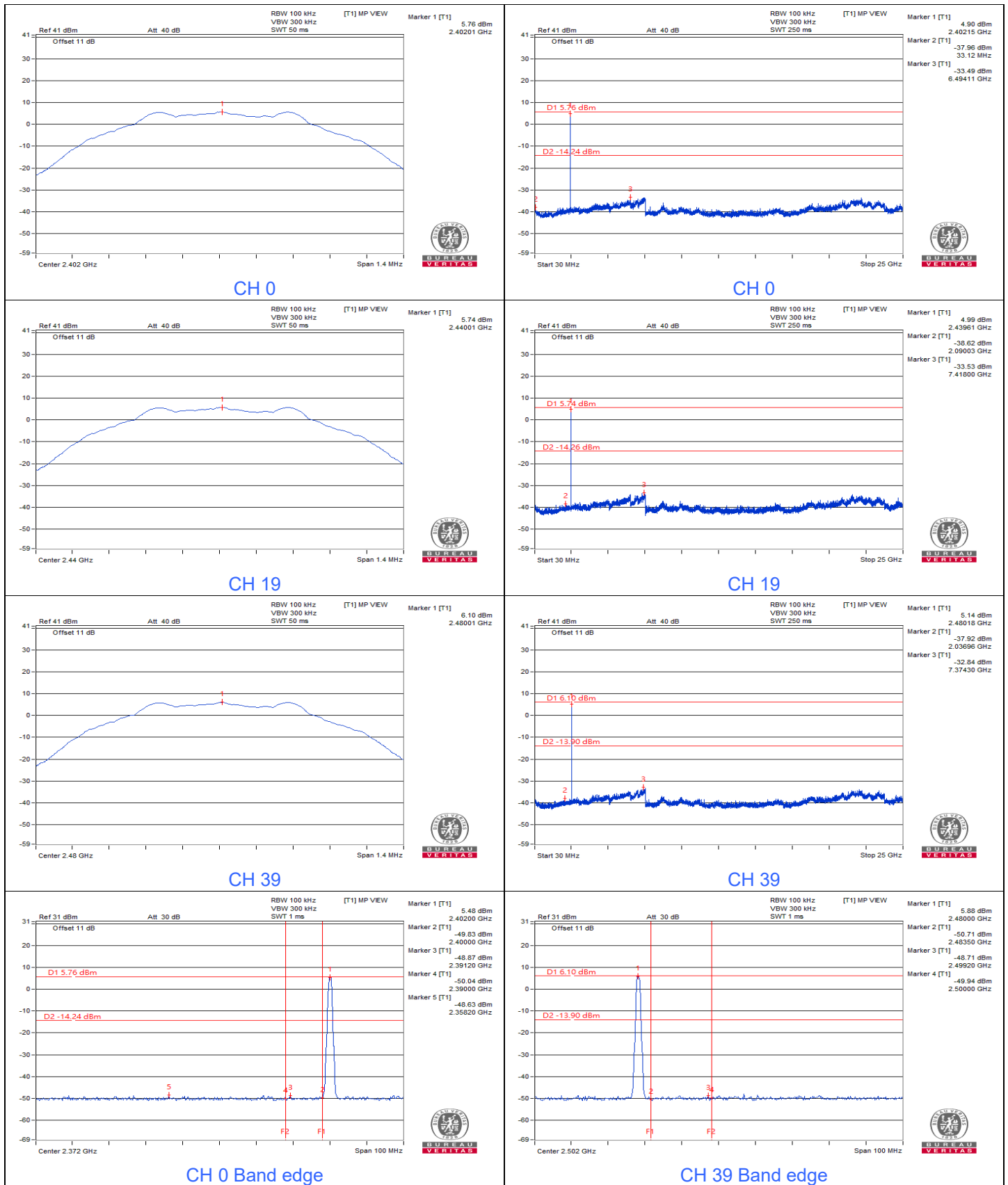
BT-LE 125k



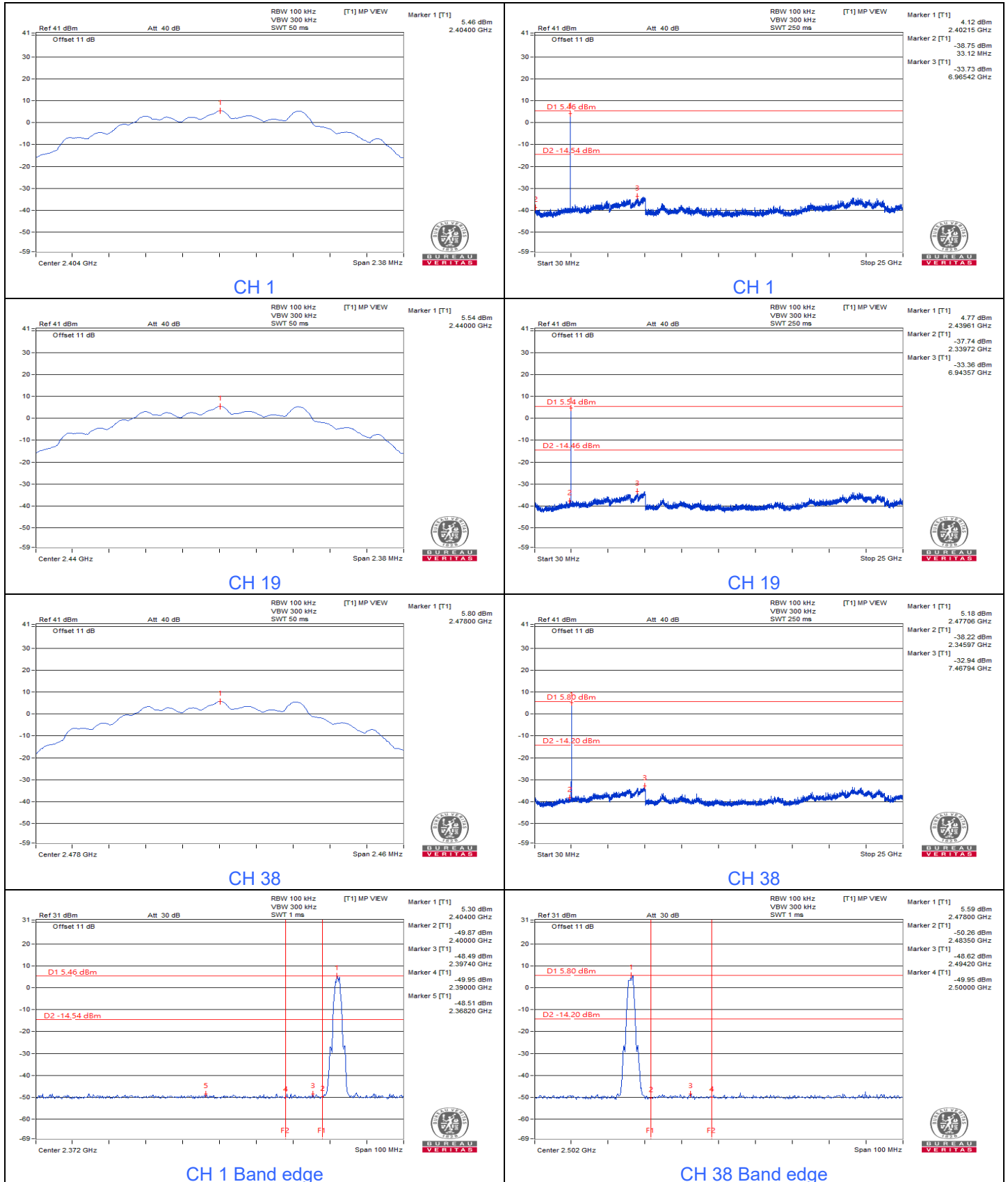
BT-LE 500k



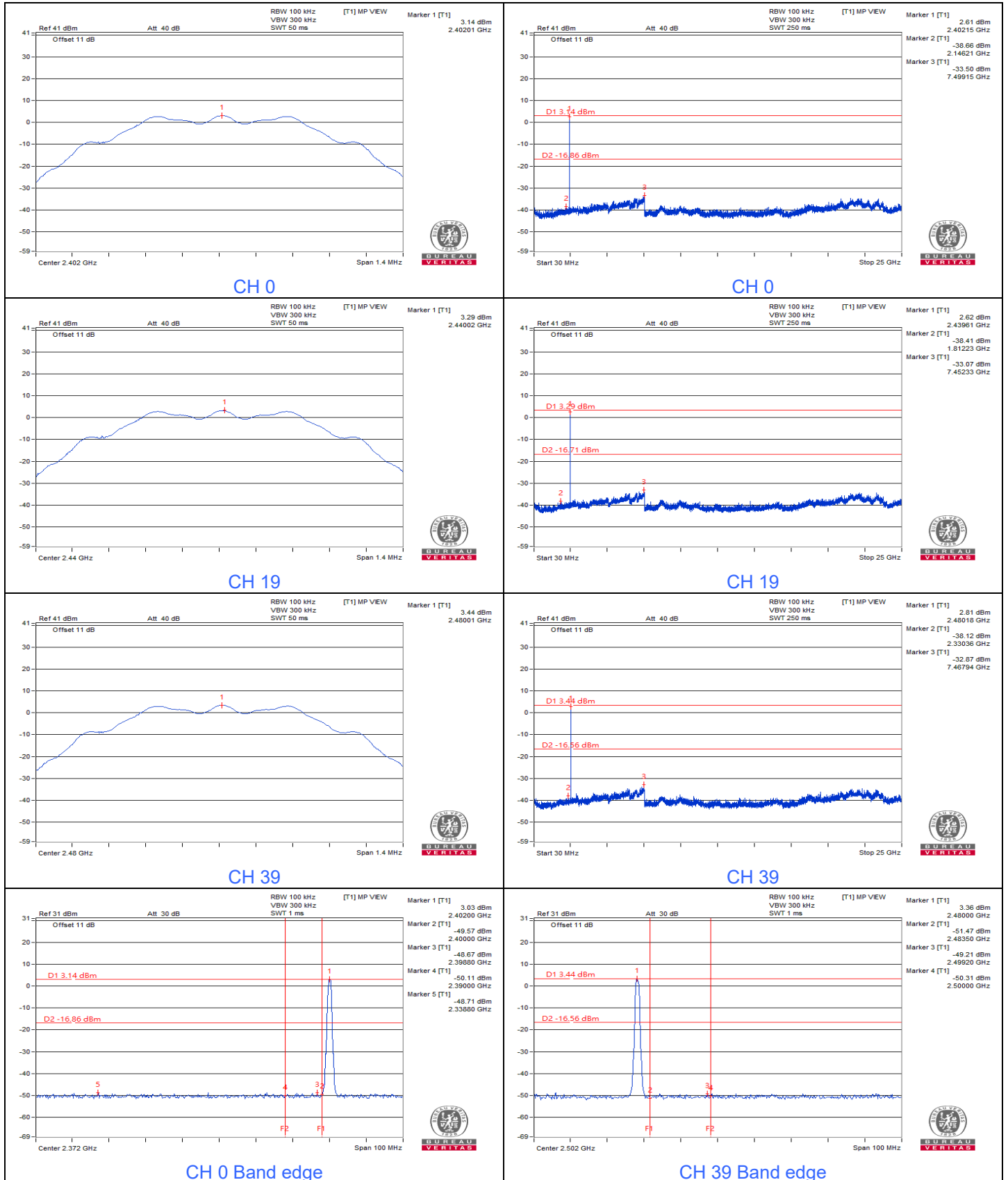
Mode A2
BT-LE 1M



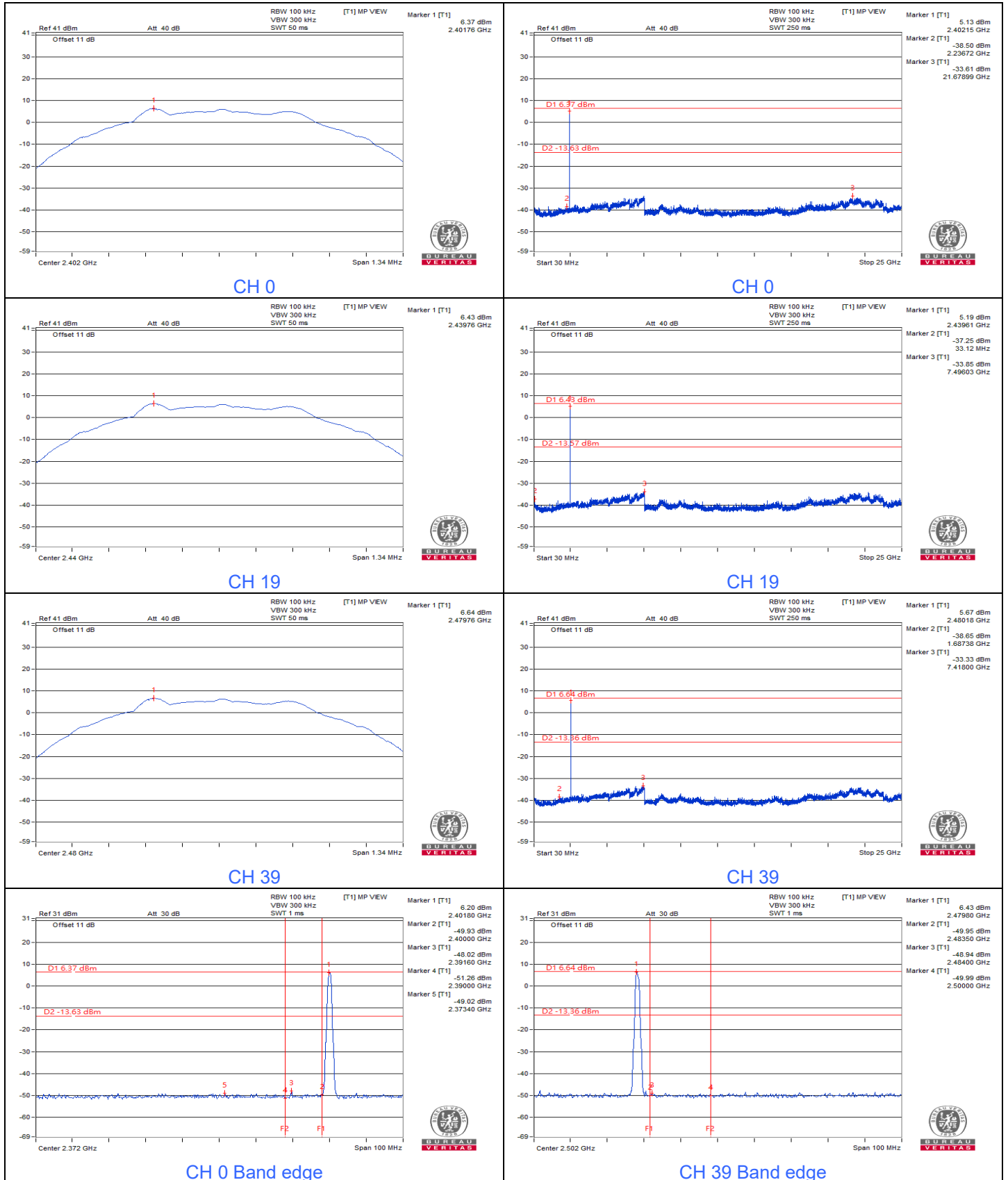
BT-LE 2M



BT-LE 125k



BT-LE 500k



7.5 AC Power Conducted Emissions

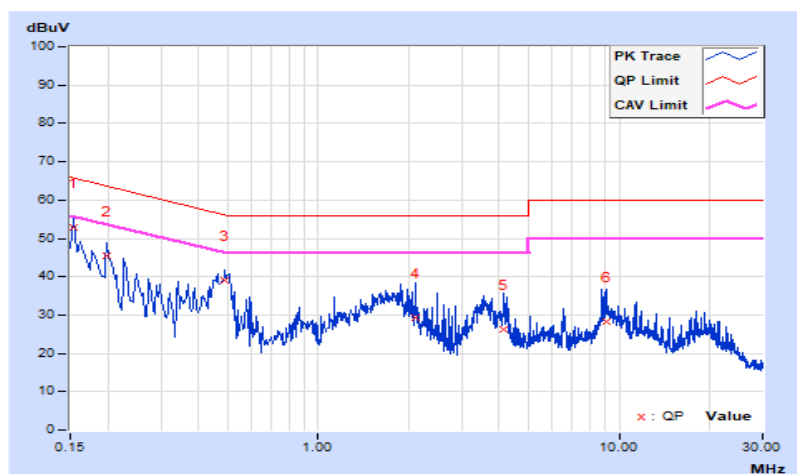
Mode C1

RF Mode	BT LE-2M	Channel	CH 19 : 2440 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Vanness Huang		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	9.78	43.25	29.30	53.03	39.08	65.78	55.78	-12.75	-16.70
2	0.19800	9.76	35.84	21.58	45.60	31.34	63.69	53.69	-18.09	-22.35
3	0.49000	9.78	29.41	17.49	39.19	27.27	56.17	46.17	-16.98	-18.90
4	2.10200	9.88	19.55	9.74	29.43	19.62	56.00	46.00	-26.57	-26.38
5	4.13400	9.91	16.40	5.89	26.31	15.80	56.00	46.00	-29.69	-30.20
6	9.04200	9.96	18.48	10.77	28.44	20.73	60.00	50.00	-31.56	-29.27

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

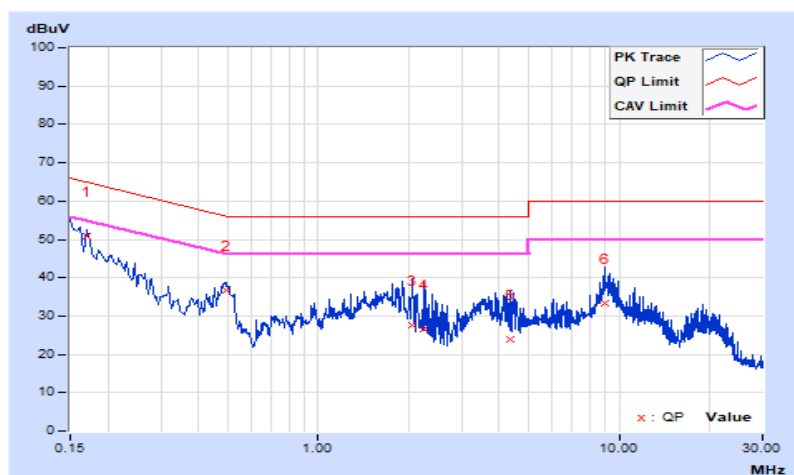


RF Mode	BT LE-2M	Channel	CH 19 : 2440 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Vanness Huang		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17000	9.78	41.16	25.77	50.94	35.55	64.96	54.96	-14.02	-19.41
2	0.49739	9.79	26.95	17.34	36.74	27.13	56.04	46.04	-19.30	-18.91
3	2.04600	9.88	17.81	7.64	27.69	17.52	56.00	46.00	-28.31	-28.48
4	2.25400	9.89	16.85	4.37	26.74	14.26	56.00	46.00	-29.26	-31.74
5	4.36200	9.93	13.95	4.28	23.88	14.21	56.00	46.00	-32.12	-31.79
6	8.94600	10.00	23.37	16.21	33.37	26.21	60.00	50.00	-26.63	-23.79

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



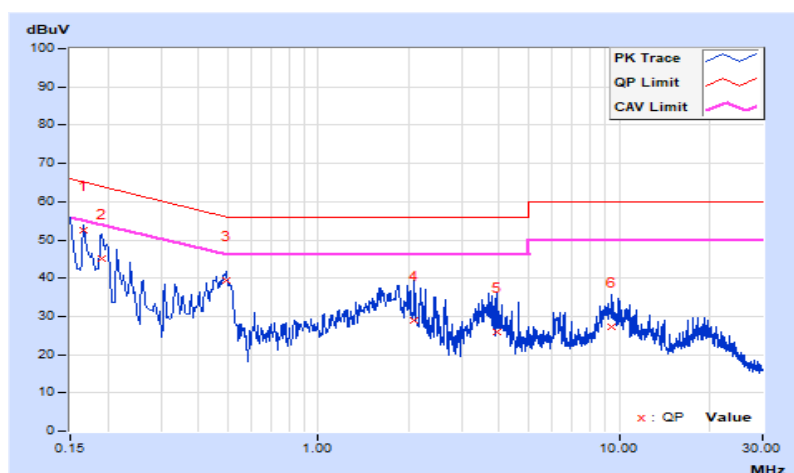
Mode C2

RF Mode	BT LE-2M	Channel	CH 19 : 2440 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Vanness Huang		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16600	9.77	42.70	27.13	52.47	36.90	65.16	55.16	-12.69	-18.26
2	0.19000	9.76	35.42	20.33	45.18	30.09	64.04	54.04	-18.86	-23.95
3	0.49739	9.78	29.54	19.57	39.32	29.35	56.04	46.04	-16.72	-16.69
4	2.09000	9.88	19.21	9.65	29.09	19.53	56.00	46.00	-26.91	-26.47
5	3.90600	9.91	15.94	7.03	25.85	16.94	56.00	46.00	-30.15	-29.06
6	9.41000	9.96	17.36	10.51	27.32	20.47	60.00	50.00	-32.68	-29.53

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

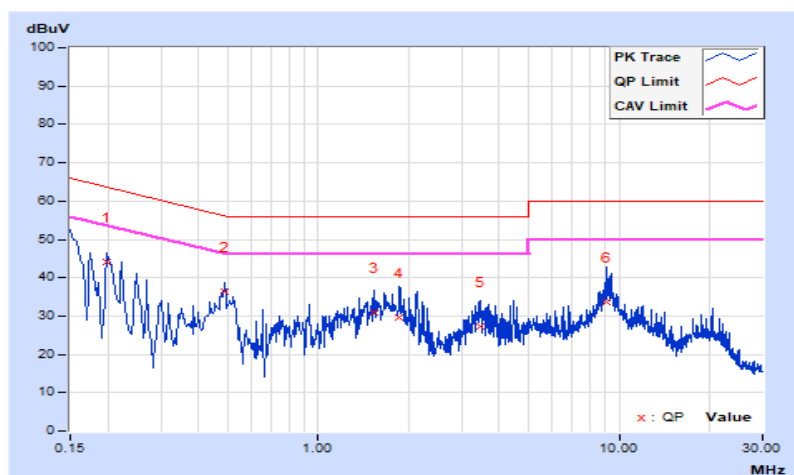


RF Mode	BT LE-2M	Channel	CH 19 : 2440 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Vanness Huang		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19800	9.76	34.19	21.79	43.95	31.55	63.69	53.69	-19.74	-22.14
2	0.49000	9.79	26.47	14.94	36.26	24.73	56.17	46.17	-19.91	-21.44
3	1.52600	9.84	21.22	11.58	31.06	21.42	56.00	46.00	-24.94	-24.58
4	1.86600	9.87	19.70	10.27	29.57	20.14	56.00	46.00	-26.43	-25.86
5	3.46600	9.92	17.42	8.97	27.34	18.89	56.00	46.00	-28.66	-27.11
6	9.03400	10.00	23.51	16.22	33.51	26.22	60.00	50.00	-26.49	-23.78

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



7.6 Unwanted Emissions below 1 GHz

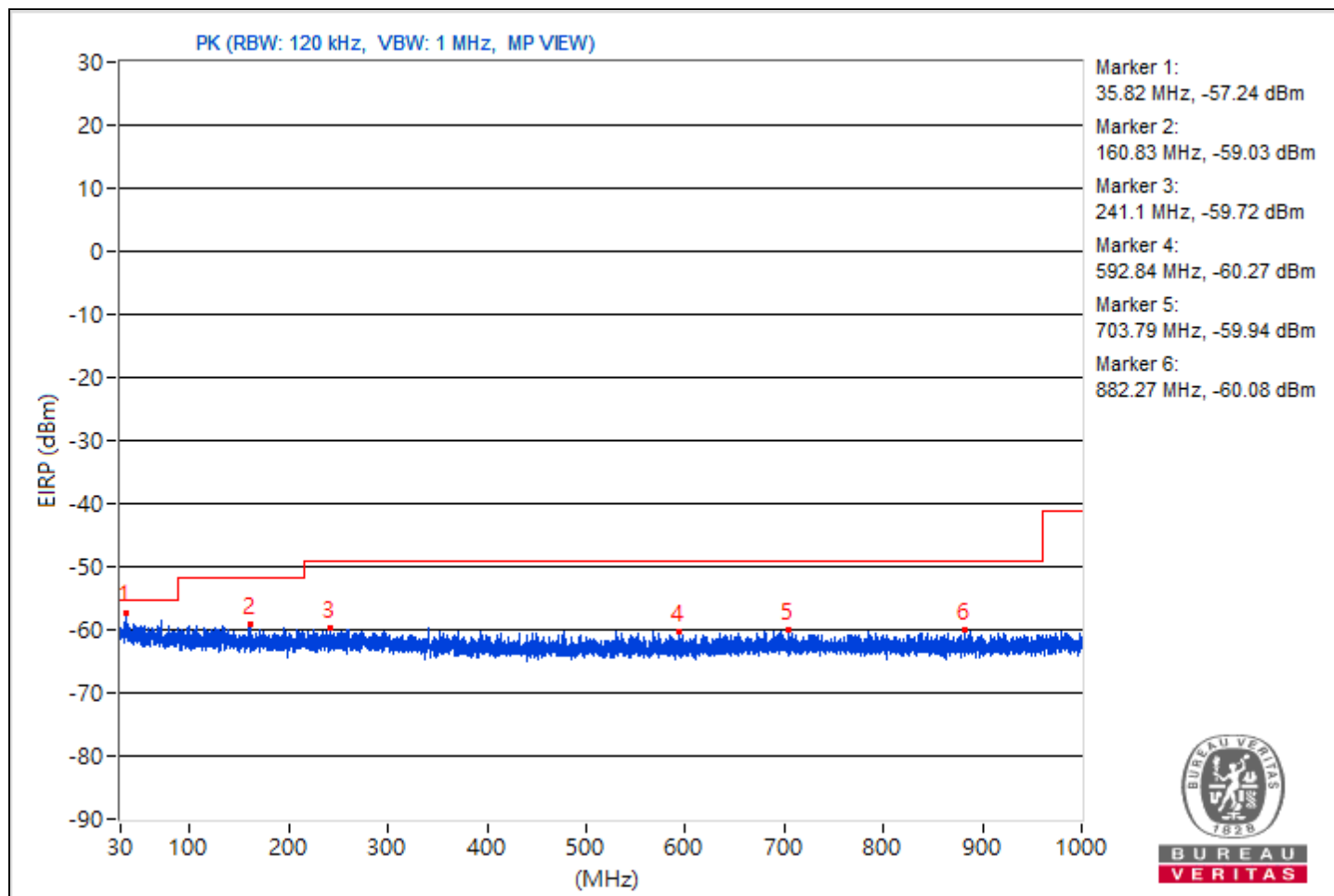
Mode A1

RF Mode	BT-LE 2M	Channel	CH 1 : 2404 MHz
Frequency Range	30 MHz ~ 1 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	35.82	38.02 PK	40	-1.98	-66.86	9.62	-57.24
2	160.83	36.23 PK	43.5	-7.27	-68.65	9.62	-59.03
3	241.1	35.54 PK	46	-10.46	-69.34	9.62	-59.72
4	592.84	34.99 PK	46	-11.01	-69.89	9.62	-60.27
5	703.79	35.32 PK	46	-10.68	-69.56	9.62	-59.94
6	882.27	35.18 PK	46	-10.82	-69.7	9.62	-60.08

Notes:

1. Margin value = Emission Level - Limit value
2. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



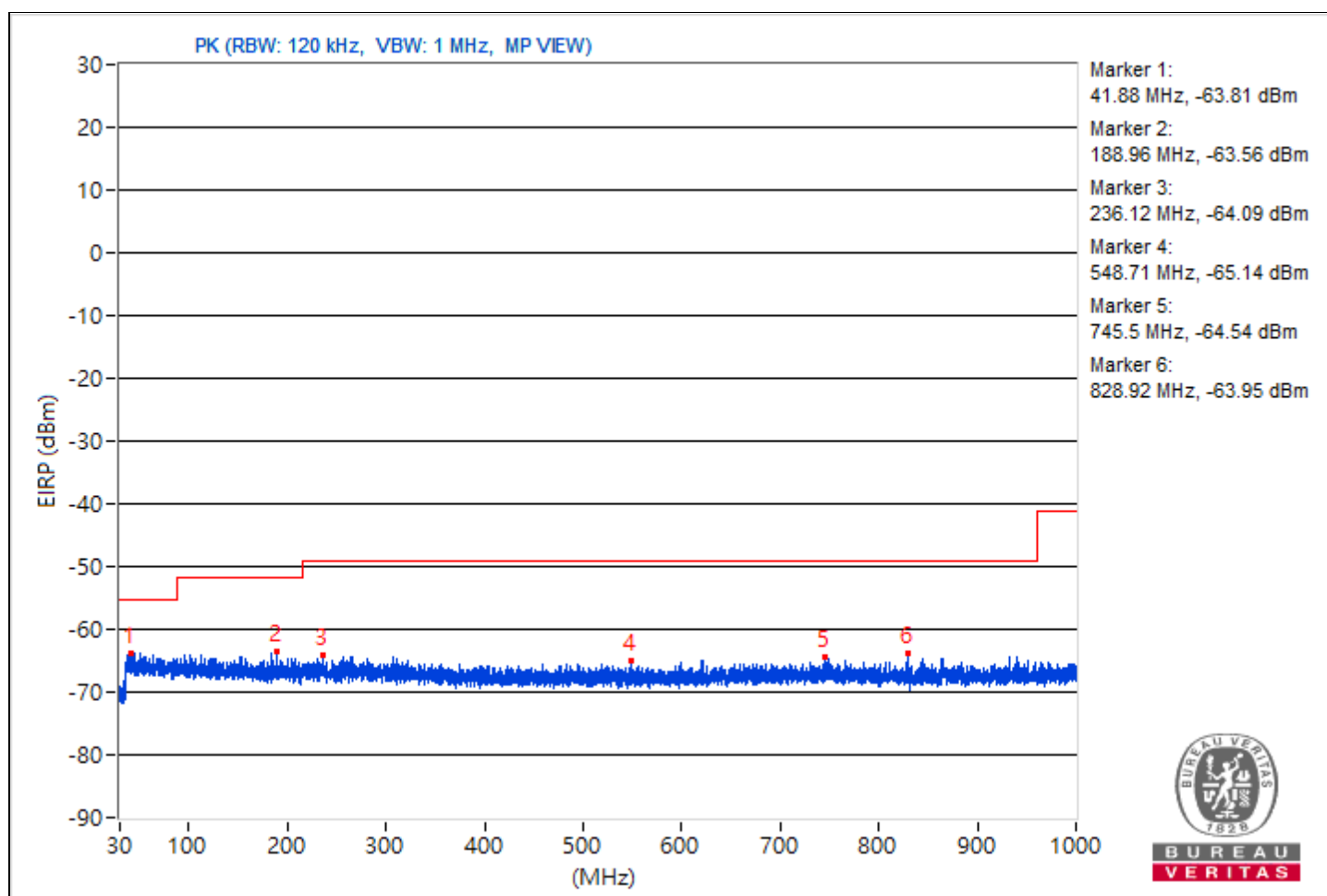
Mode A2

RF Mode	LE-125K	Channel	CH 39 : 2480 MHz
Frequency Range	30 MHz ~ 1 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	41.88	31.45 PK	40	-8.55	-73.43	9.62	-63.81
2	188.96	31.7 PK	43.5	-11.8	-73.18	9.62	-63.56
3	236.12	31.17 PK	46	-14.83	-73.71	9.62	-64.09
4	548.71	30.12 PK	46	-15.88	-74.76	9.62	-65.14
5	745.5	30.72 PK	46	-15.28	-74.16	9.62	-64.54
6	828.92	31.31 PK	46	-14.69	-73.57	9.62	-63.95

Notes:

1. Margin value = Emission Level - Limit value
2. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



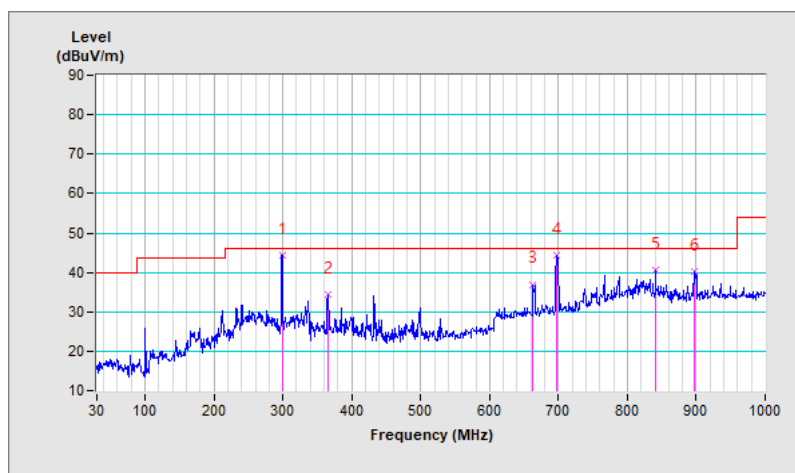
Mode B

RF Mode	BT LE-2M	Channel	CH 1 : 2404 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 66% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	299.66	44.4 QP	46.0	-1.6	1.00 H	187	56.1	-11.7
2	366.59	34.3 QP	46.0	-11.7	1.00 H	24	44.4	-10.1
3	663.41	37.0 QP	46.0	-9.0	1.00 H	27	39.8	-2.8
4	697.36	44.3 QP	46.0	-1.7	1.00 H	36	46.5	-2.2
5	840.92	40.5 QP	46.0	-5.5	1.00 H	58	40.7	-0.2
6	896.21	40.3 QP	46.0	-5.7	1.00 H	54	39.5	0.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

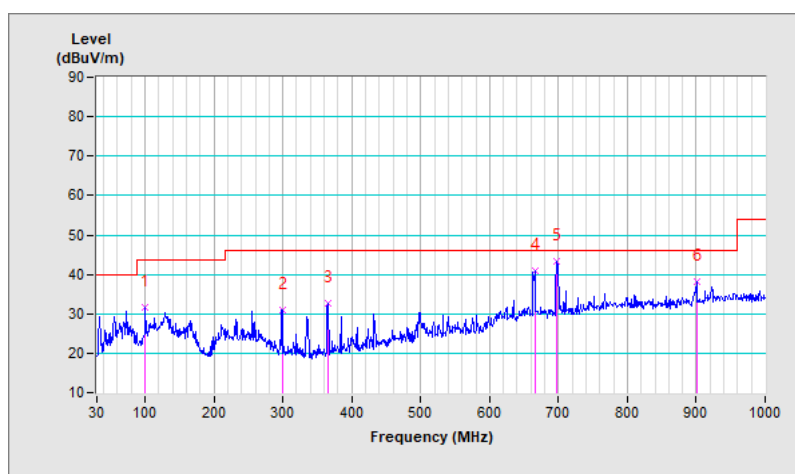


RF Mode	BT LE-2M	Channel	CH 1 : 2404 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 66% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.84	31.7 QP	43.5	-11.8	1.00 V	50	48.8	-17.1
2	299.66	31.0 QP	46.0	-15.0	1.00 V	105	42.7	-11.7
3	365.62	32.8 QP	46.0	-13.2	1.00 V	16	43.0	-10.2
4	666.32	40.8 QP	46.0	-5.2	1.00 V	121	43.5	-2.7
5	697.36	43.3 QP	46.0	-2.7	1.00 V	113	45.5	-2.2
6	900.09	38.1 QP	46.0	-7.9	1.00 V	77	37.2	0.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



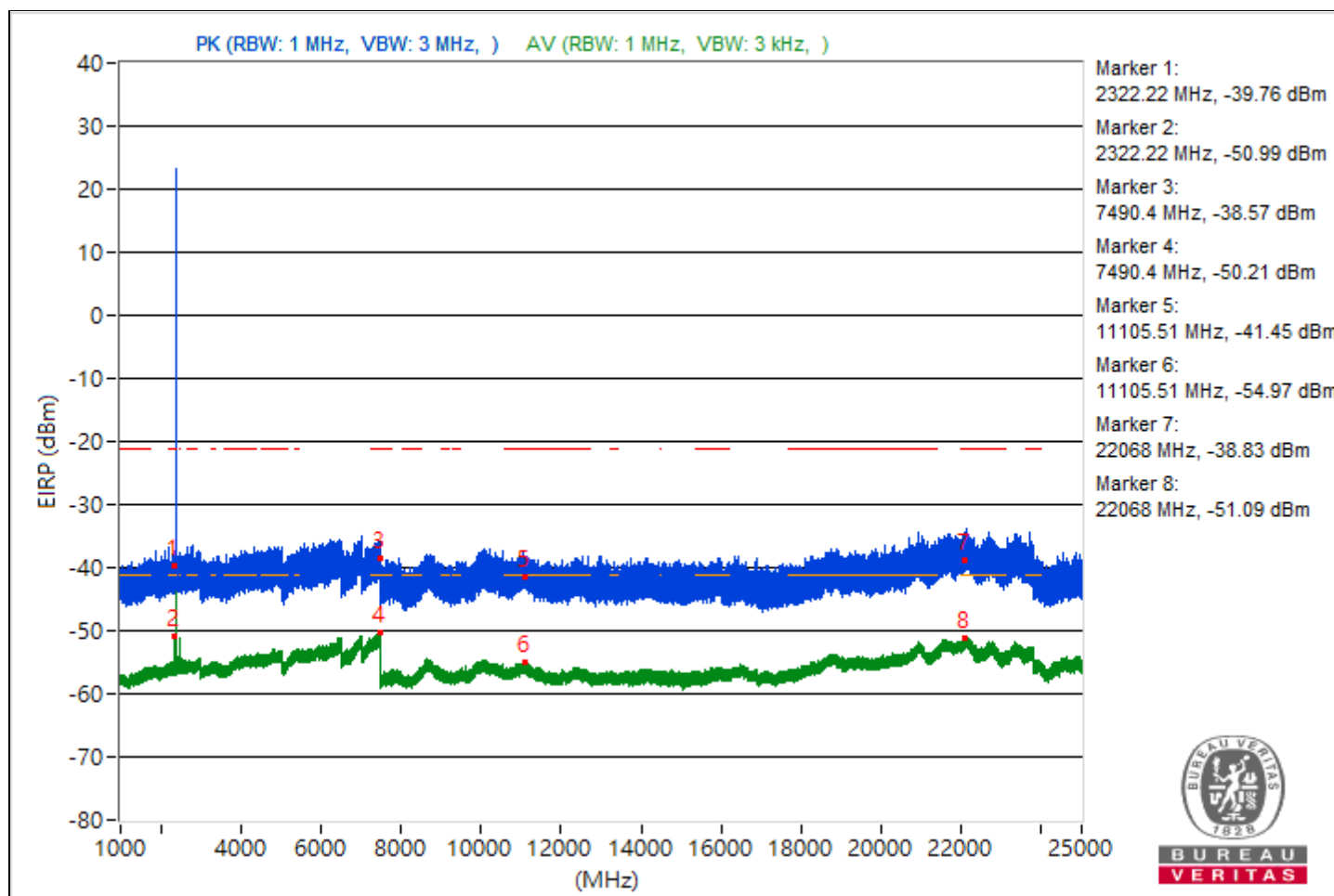
7.7 Unwanted Emissions above 1 GHz

Mode A1

RF Mode	BT-LE 1M	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2322.22	55.5 PK	74	-18.5	-44.68	4.92	-39.76
2	2322.22	44.27 AV	54	-9.73	-55.91	4.92	-50.99
3	7490.4	56.69 PK	74	-17.31	-43.49	4.92	-38.57
4	7490.4	45.05 AV	54	-8.95	-55.13	4.92	-50.21
5	11105.51	53.81 PK	74	-20.19	-46.37	4.92	-41.45
6	11105.51	40.29 AV	54	-13.71	-59.89	4.92	-54.97
7	22068	56.43 PK	74	-17.57	-43.75	4.92	-38.83
8	22068	44.17 AV	54	-9.83	-56.01	4.92	-51.09

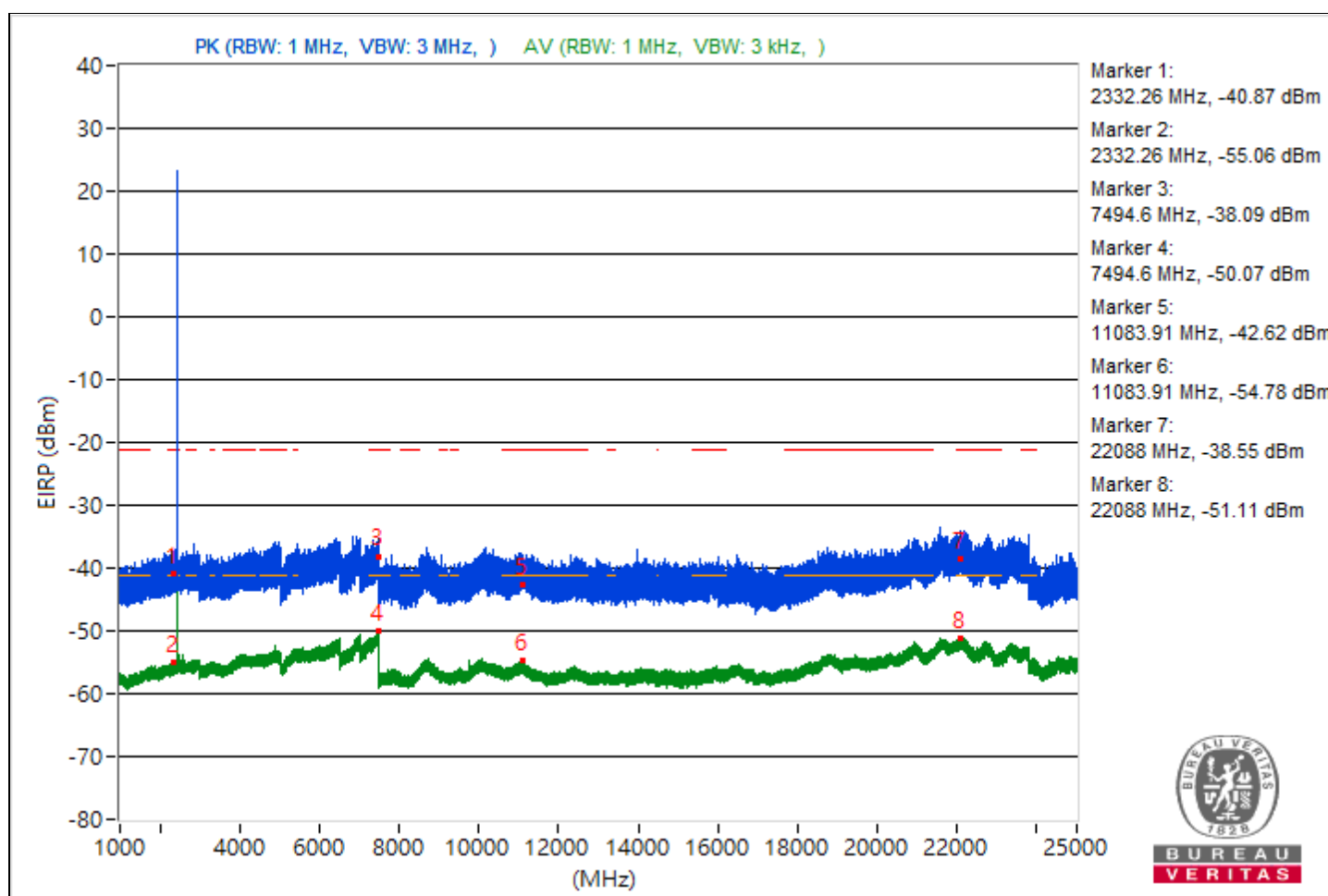
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 1M	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2332.26	54.39 PK	74	-19.61	-45.79	4.92	-40.87
2	2332.26	40.2 AV	54	-13.8	-59.98	4.92	-55.06
3	7494.6	57.17 PK	74	-16.83	-43.01	4.92	-38.09
4	7494.6	45.19 AV	54	-8.81	-54.99	4.92	-50.07
5	11083.91	52.64 PK	74	-21.36	-47.54	4.92	-42.62
6	11083.91	40.48 AV	54	-13.52	-59.7	4.92	-54.78
7	22088	56.71 PK	74	-17.29	-43.47	4.92	-38.55
8	22088	44.15 AV	54	-9.85	-56.03	4.92	-51.11

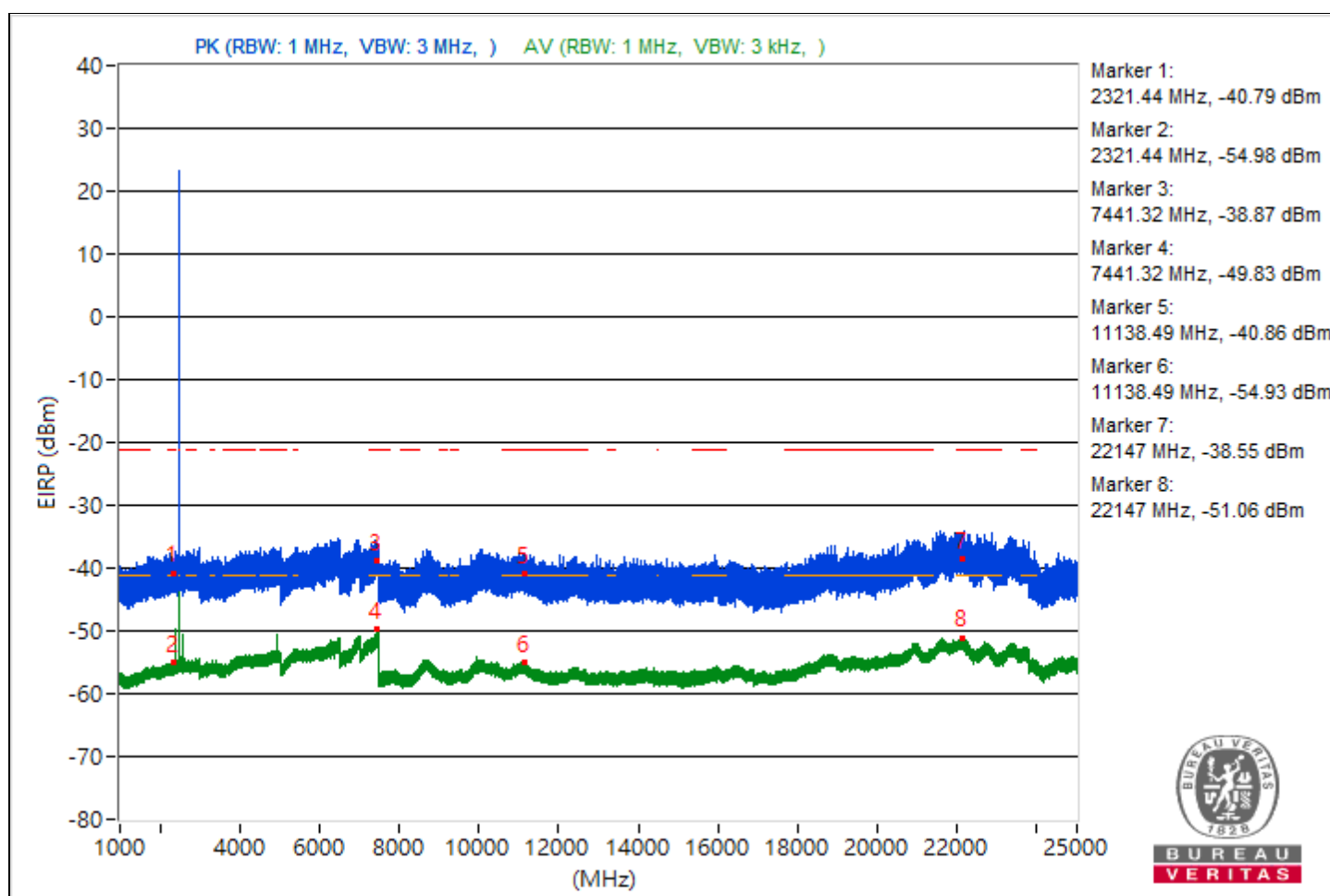
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 1M	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2321.44	54.47 PK	74	-19.53	-45.71	4.92	-40.79
2	2321.44	40.28 AV	54	-13.72	-59.9	4.92	-54.98
3	7441.32	56.39 PK	74	-17.61	-43.79	4.92	-38.87
4	7441.32	45.43 AV	54	-8.57	-54.75	4.92	-49.83
5	11138.49	54.4 PK	74	-19.6	-45.78	4.92	-40.86
6	11138.49	40.33 AV	54	-13.67	-59.85	4.92	-54.93
7	22147	56.71 PK	74	-17.29	-43.47	4.92	-38.55
8	22147	44.2 AV	54	-9.8	-55.98	4.92	-51.06

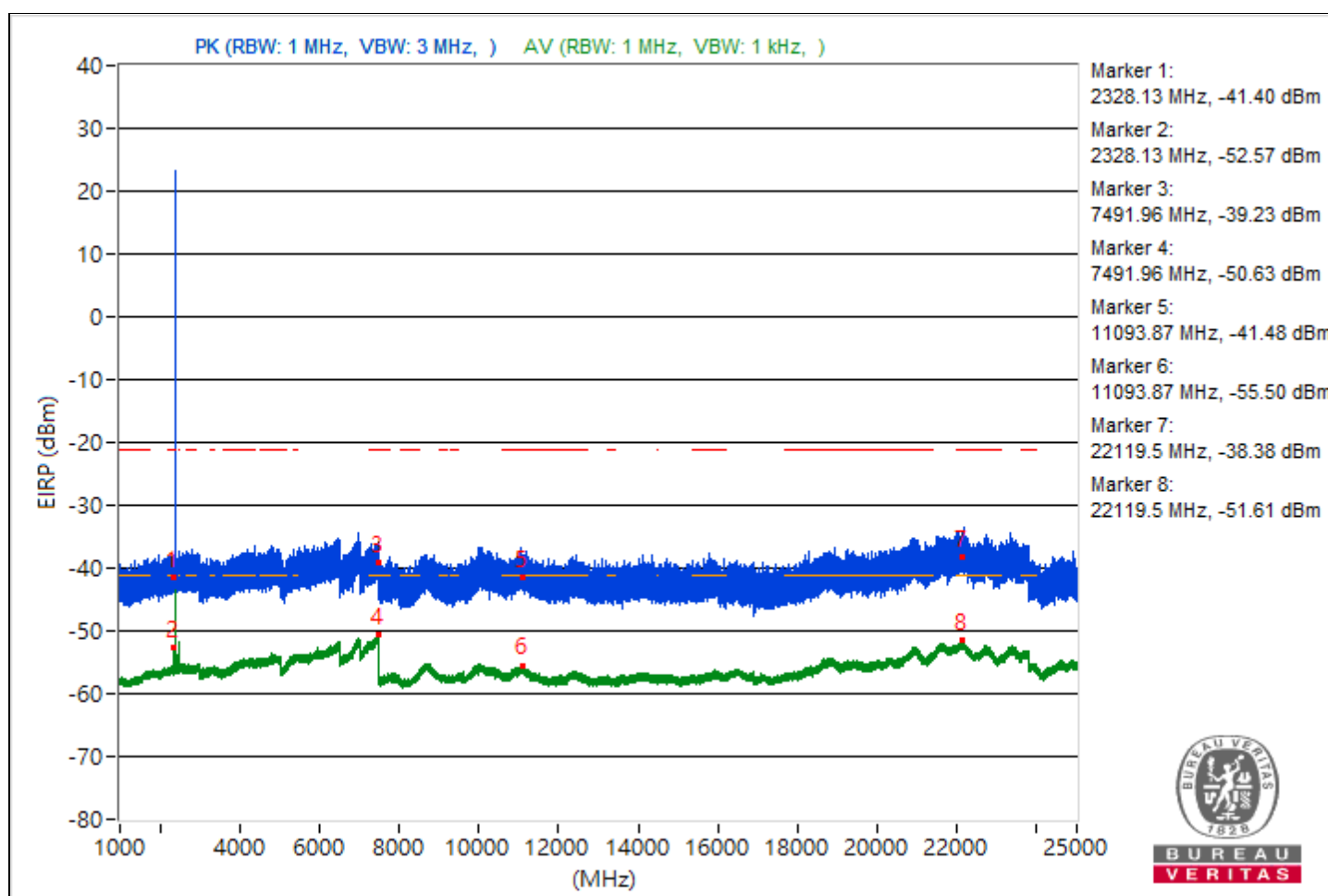
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 2M	Channel	CH 1 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2328.13	53.86 PK	74	-20.14	-46.32	4.92	-41.4
2	2328.13	42.69 AV	54	-11.31	-57.49	4.92	-52.57
3	7491.96	56.03 PK	74	-17.97	-44.15	4.92	-39.23
4	7491.96	44.63 AV	54	-9.37	-55.55	4.92	-50.63
5	11093.87	53.78 PK	74	-20.22	-46.4	4.92	-41.48
6	11093.87	39.76 AV	54	-14.24	-60.42	4.92	-55.5
7	22119.5	56.88 PK	74	-17.12	-43.3	4.92	-38.38
8	22119.5	43.65 AV	54	-10.35	-56.53	4.92	-51.61

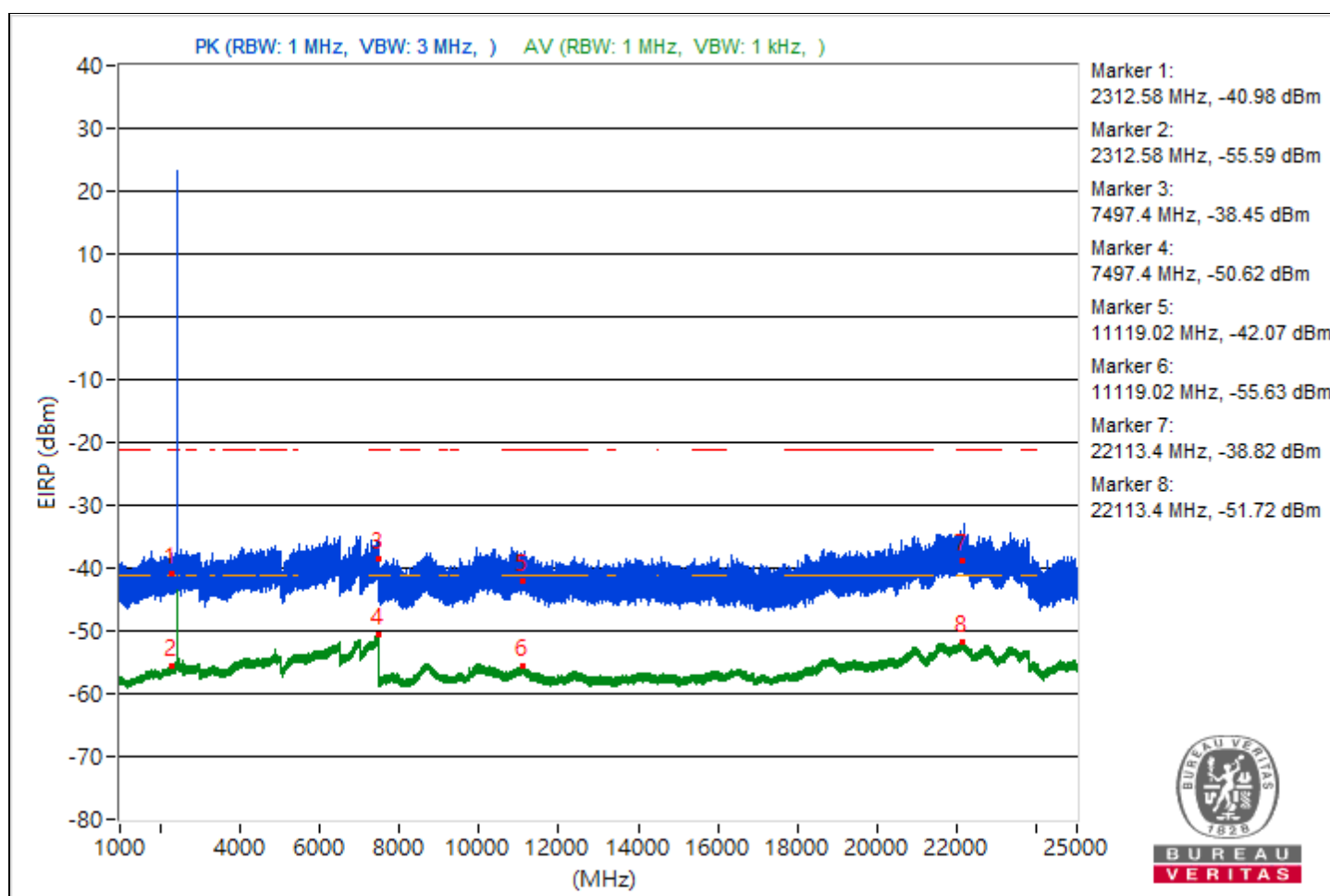
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 2M	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2312.58	54.28 PK	74	-19.72	-45.9	4.92	-40.98
2	2312.58	39.67 AV	54	-14.33	-60.51	4.92	-55.59
3	7497.4	56.81 PK	74	-17.19	-43.37	4.92	-38.45
4	7497.4	44.64 AV	54	-9.36	-55.54	4.92	-50.62
5	11119.02	53.19 PK	74	-20.81	-46.99	4.92	-42.07
6	11119.02	39.63 AV	54	-14.37	-60.55	4.92	-55.63
7	22113.4	56.44 PK	74	-17.56	-43.74	4.92	-38.82
8	22113.4	43.54 AV	54	-10.46	-56.64	4.92	-51.72

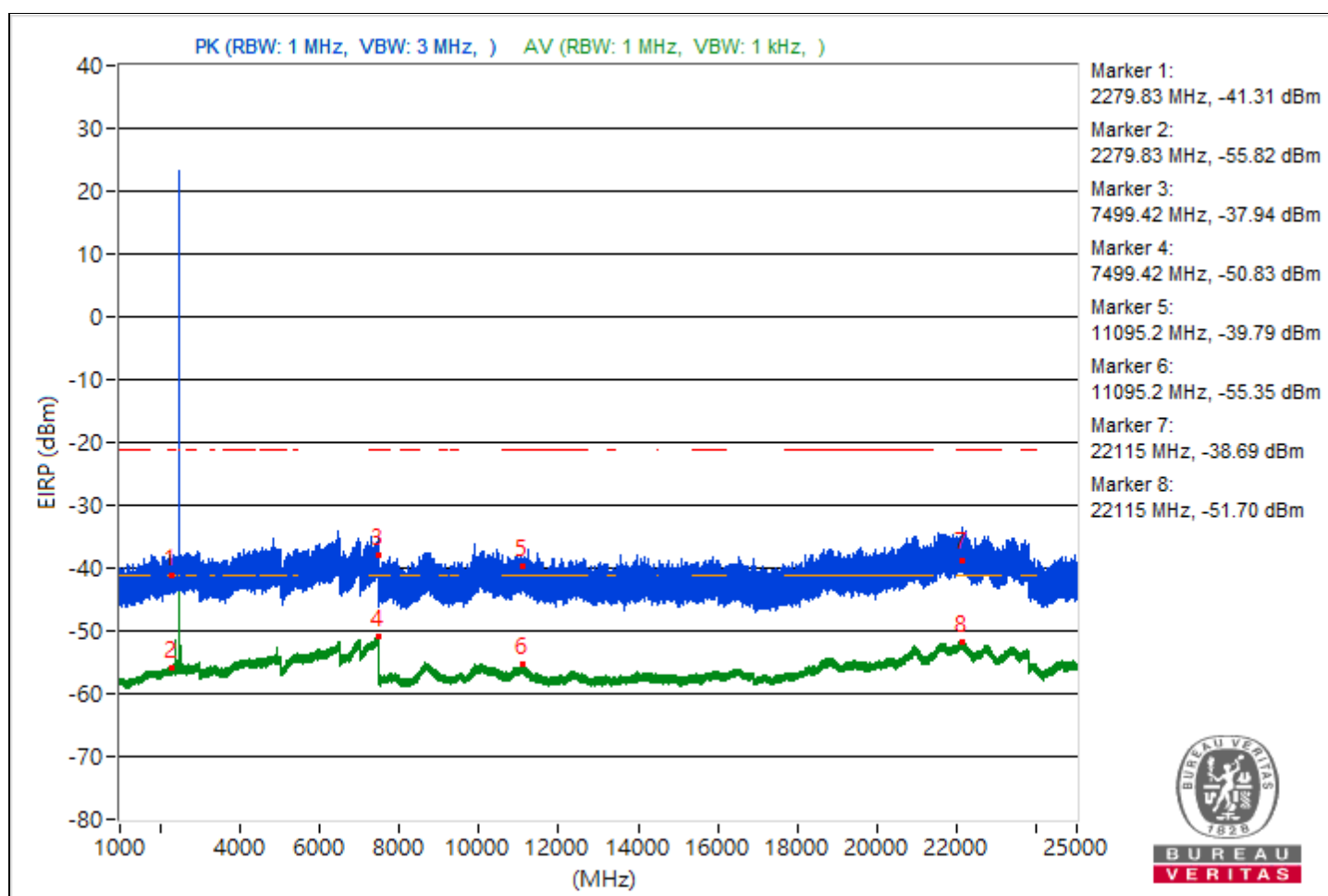
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 2M	Channel	CH 38 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2279.83	53.95 PK	74	-20.05	-46.23	4.92	-41.31
2	2279.83	39.44 AV	54	-14.56	-60.74	4.92	-55.82
3	7499.42	57.32 PK	74	-16.68	-42.86	4.92	-37.94
4	7499.42	44.43 AV	54	-9.57	-55.75	4.92	-50.83
5	11095.2	55.47 PK	74	-18.53	-44.71	4.92	-39.79
6	11095.2	39.91 AV	54	-14.09	-60.27	4.92	-55.35
7	22115	56.57 PK	74	-17.43	-43.61	4.92	-38.69
8	22115	43.56 AV	54	-10.44	-56.62	4.92	-51.7

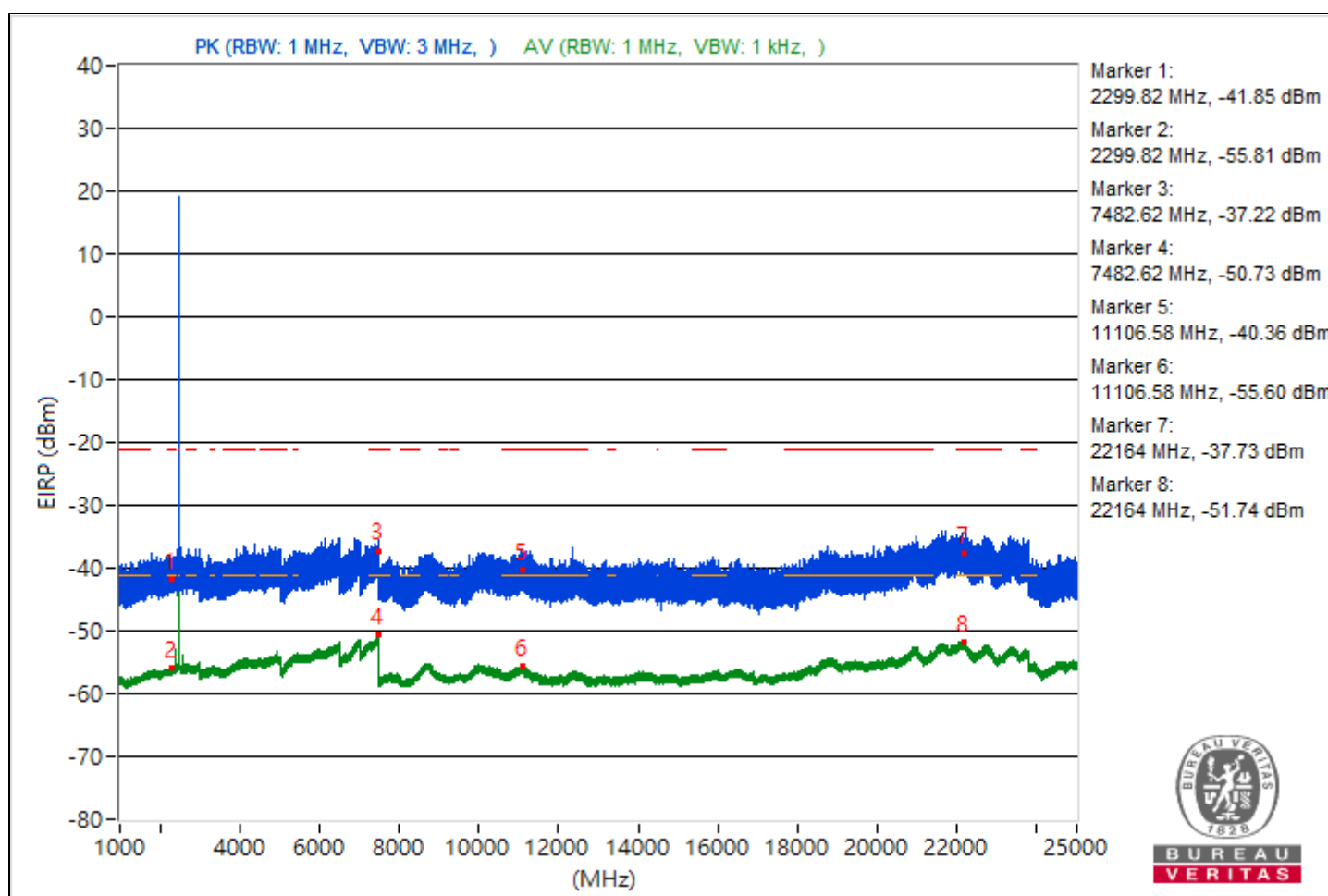
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 125k	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2299.82	53.41 PK	74	-20.59	-46.77	4.92	-41.85
2	2299.82	39.45 AV	54	-14.55	-60.73	4.92	-55.81
3	7482.62	58.04 PK	74	-15.96	-42.14	4.92	-37.22
4	7482.62	44.53 AV	54	-9.47	-55.65	4.92	-50.73
5	11106.58	54.9 PK	74	-19.1	-45.28	4.92	-40.36
6	11106.58	39.66 AV	54	-14.34	-60.52	4.92	-55.6
7	22164	57.53 PK	74	-16.47	-42.65	4.92	-37.73
8	22164	43.52 AV	54	-10.48	-56.66	4.92	-51.74

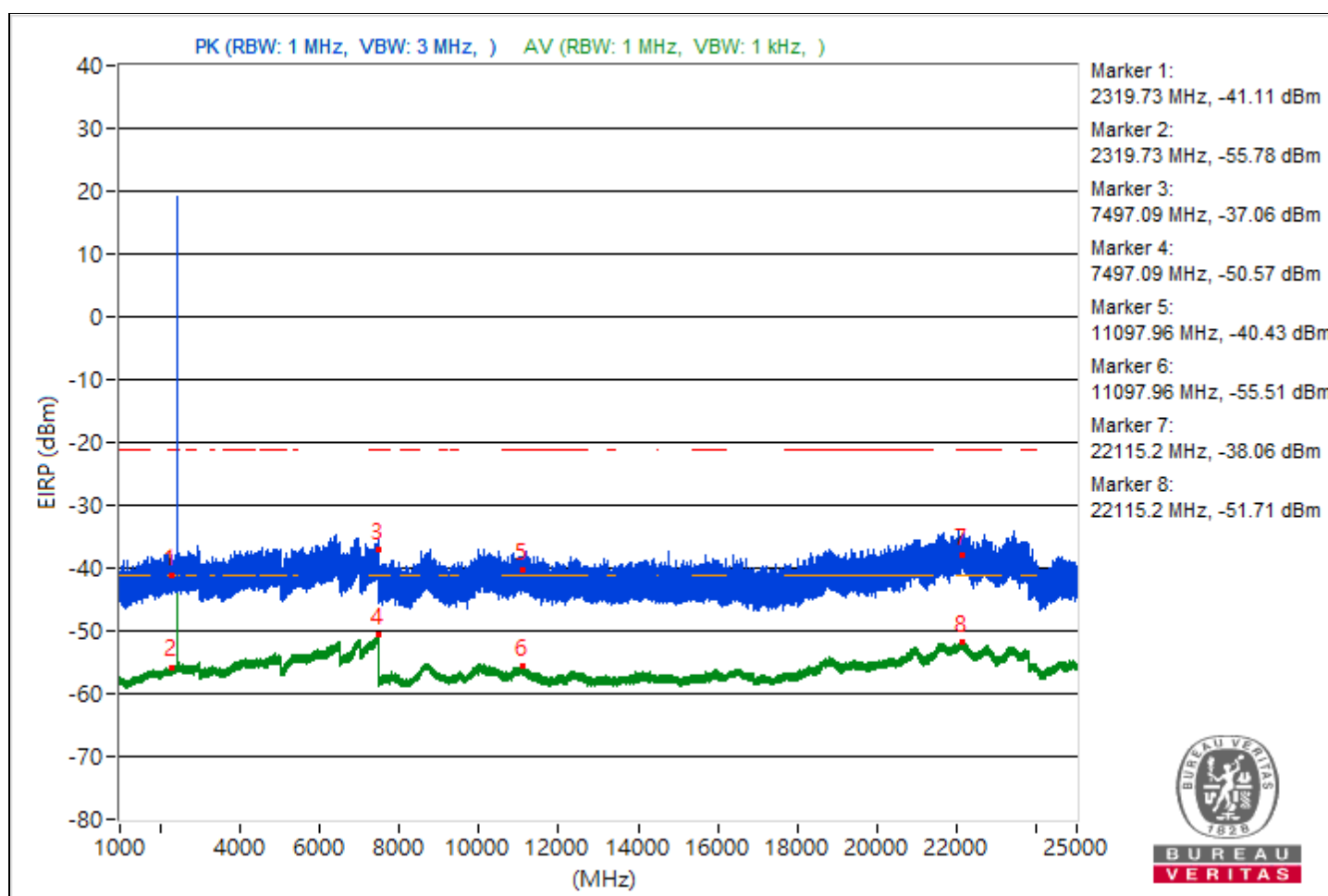
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 125k	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2319.73	54.15 PK	74	-19.85	-46.03	4.92	-41.11
2	2319.73	39.48 AV	54	-14.52	-60.7	4.92	-55.78
3	7497.09	58.2 PK	74	-15.8	-41.98	4.92	-37.06
4	7497.09	44.69 AV	54	-9.31	-55.49	4.92	-50.57
5	11097.96	54.83 PK	74	-19.17	-45.35	4.92	-40.43
6	11097.96	39.75 AV	54	-14.25	-60.43	4.92	-55.51
7	22115.2	57.2 PK	74	-16.8	-42.98	4.92	-38.06
8	22115.2	43.55 AV	54	-10.45	-56.63	4.92	-51.71

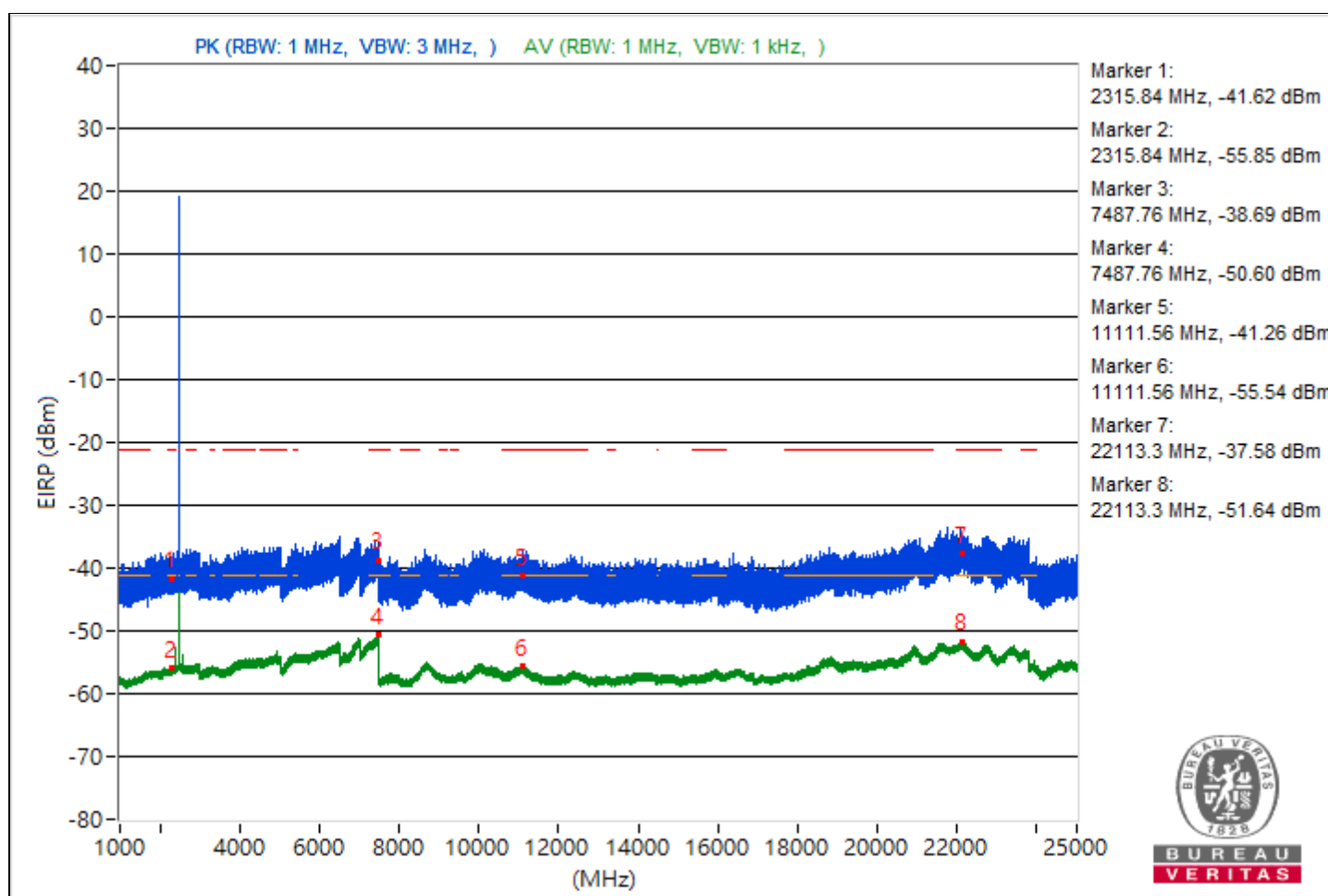
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 125k	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2315.84	53.64 PK	74	-20.36	-46.54	4.92	-41.62
2	2315.84	39.41 AV	54	-14.59	-60.77	4.92	-55.85
3	7487.76	56.57 PK	74	-17.43	-43.61	4.92	-38.69
4	7487.76	44.66 AV	54	-9.34	-55.52	4.92	-50.6
5	11111.56	54 PK	74	-20	-46.18	4.92	-41.26
6	11111.56	39.72 AV	54	-14.28	-60.46	4.92	-55.54
7	22113.3	57.68 PK	74	-16.32	-42.5	4.92	-37.58
8	22113.3	43.62 AV	54	-10.38	-56.56	4.92	-51.64

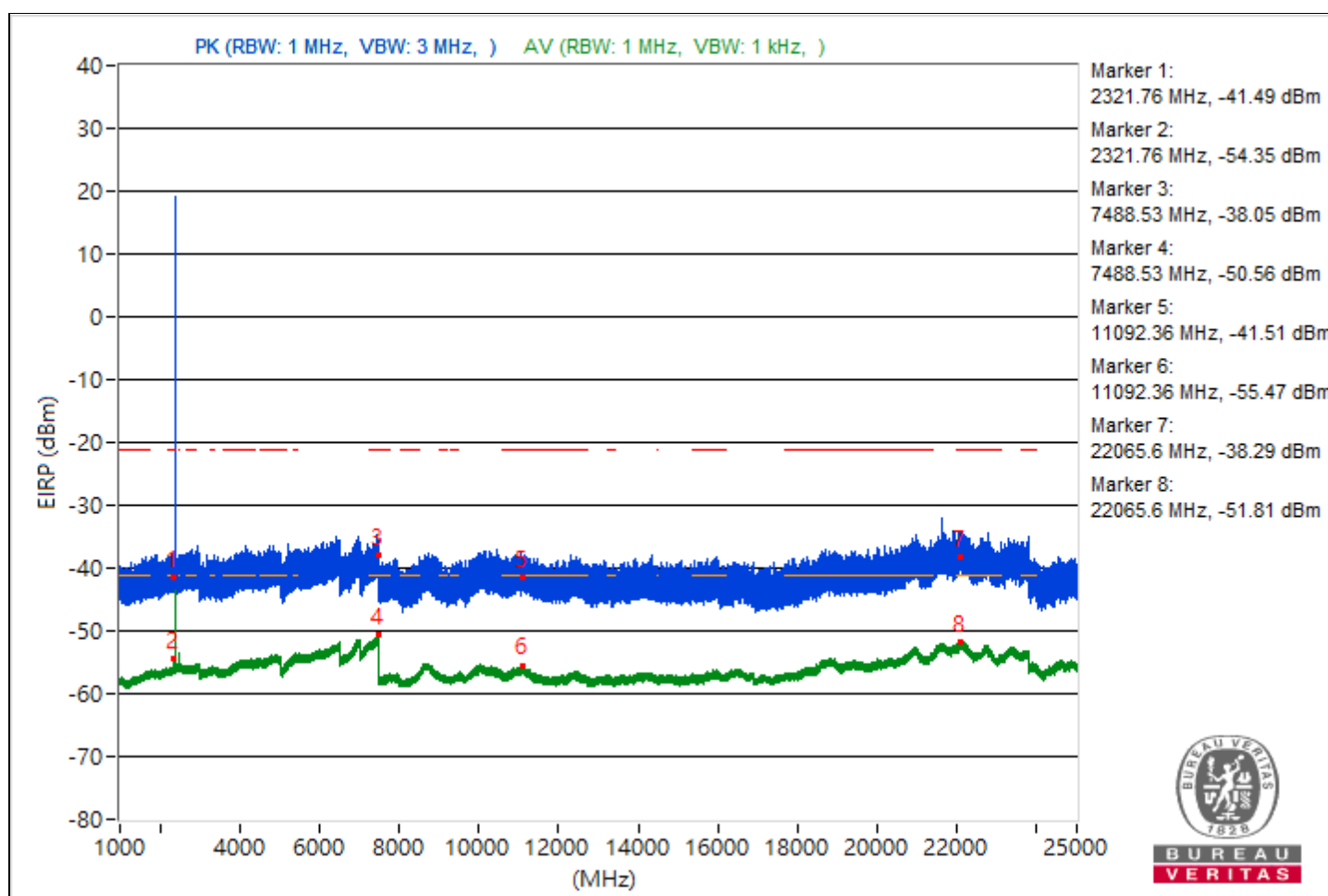
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 500k	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2321.76	53.77 PK	74	-20.23	-46.41	4.92	-41.49
2	2321.76	40.91 AV	54	-13.09	-59.27	4.92	-54.35
3	7488.53	57.21 PK	74	-16.79	-42.97	4.92	-38.05
4	7488.53	44.7 AV	54	-9.3	-55.48	4.92	-50.56
5	11092.36	53.75 PK	74	-20.25	-46.43	4.92	-41.51
6	11092.36	39.79 AV	54	-14.21	-60.39	4.92	-55.47
7	22065.6	56.97 PK	74	-17.03	-43.21	4.92	-38.29
8	22065.6	43.45 AV	54	-10.55	-56.73	4.92	-51.81

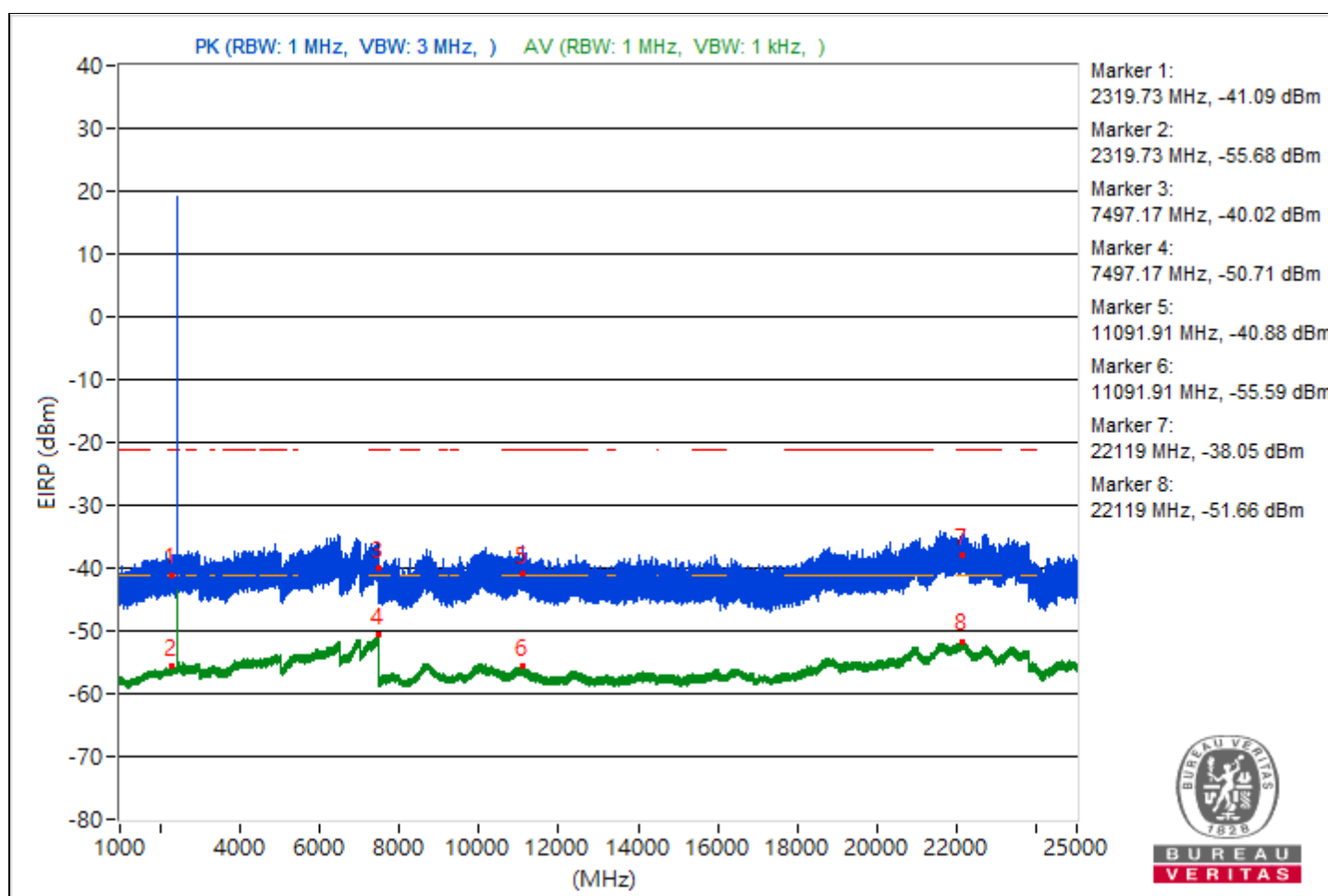
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 500k	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2319.73	54.17 PK	74	-19.83	-46.01	4.92	-41.09
2	2319.73	39.58 AV	54	-14.42	-60.6	4.92	-55.68
3	7497.17	55.24 PK	74	-18.76	-44.94	4.92	-40.02
4	7497.17	44.55 AV	54	-9.45	-55.63	4.92	-50.71
5	11091.91	54.38 PK	74	-19.62	-45.8	4.92	-40.88
6	11091.91	39.67 AV	54	-14.33	-60.51	4.92	-55.59
7	22119	57.21 PK	74	-16.79	-42.97	4.92	-38.05
8	22119	43.6 AV	54	-10.4	-56.58	4.92	-51.66

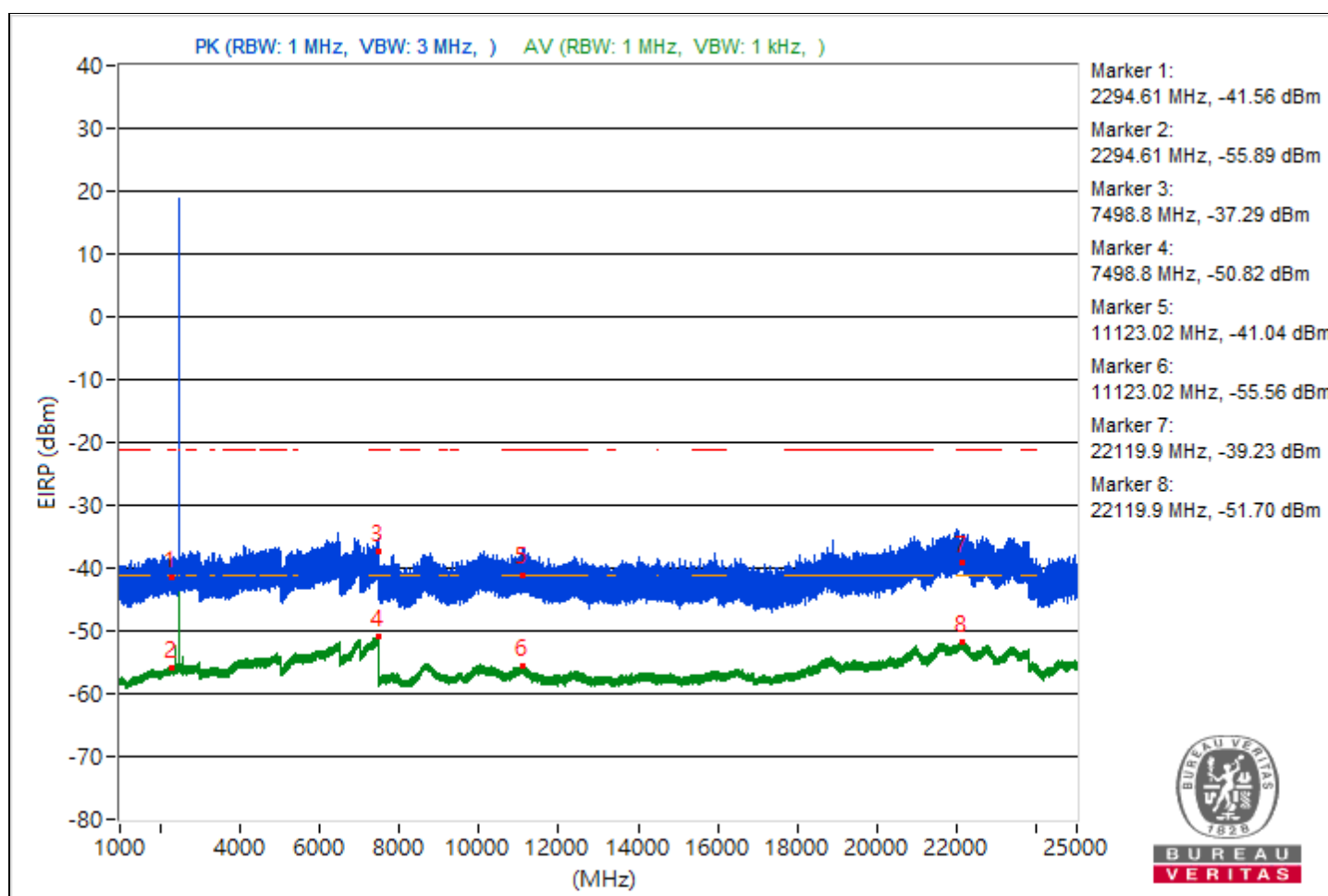
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 500k	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2294.61	53.7 PK	74	-20.3	-46.48	4.92	-41.56
2	2294.61	39.37 AV	54	-14.63	-60.81	4.92	-55.89
3	7498.8	57.97 PK	74	-16.03	-42.21	4.92	-37.29
4	7498.8	44.44 AV	54	-9.56	-55.74	4.92	-50.82
5	11123.02	54.22 PK	74	-19.78	-45.96	4.92	-41.04
6	11123.02	39.7 AV	54	-14.3	-60.48	4.92	-55.56
7	22119.9	56.03 PK	74	-17.97	-44.15	4.92	-39.23
8	22119.9	43.56 AV	54	-10.44	-56.62	4.92	-51.7

Note: Margin value = Emission Level - Limit value



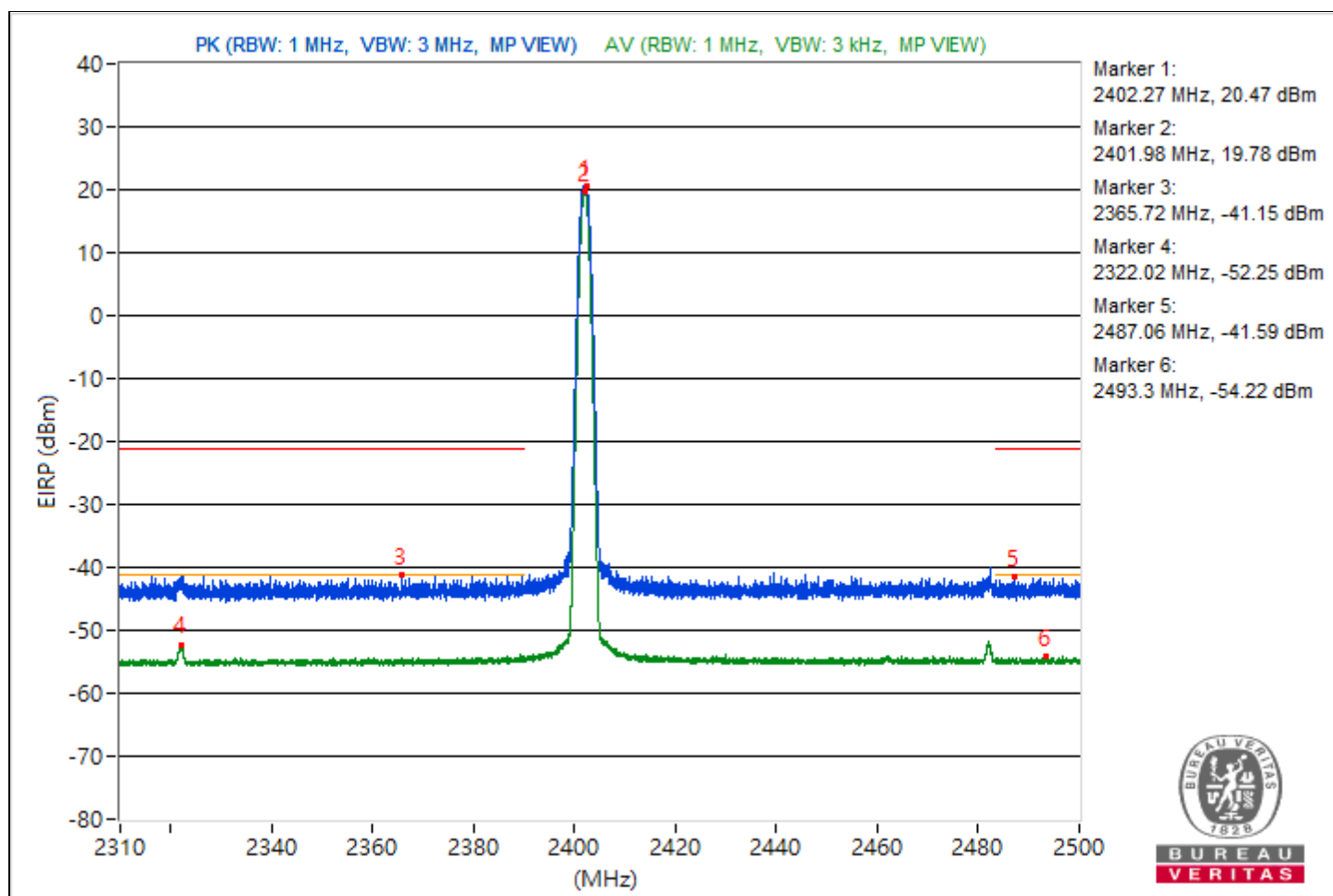
Band Edges

RF Mode	BT-LE 1M	Channel	CH 0 : 2402 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2402.27	115.73 PK			18.47	2	20.47
2	*2401.98	115.04 AV			17.78	2	19.78
3	2365.72	54.11 PK	74	-19.89	-43.15	2	-41.15
4	2322.02	43.01 AV	54	-10.99	-54.25	2	-52.25
5	2487.06	53.67 PK	74	-20.33	-43.59	2	-41.59
6	2493.3	41.04 AV	54	-12.96	-56.22	2	-54.22

Notes:

1. Margin value = Emission Level - Limit value
2. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

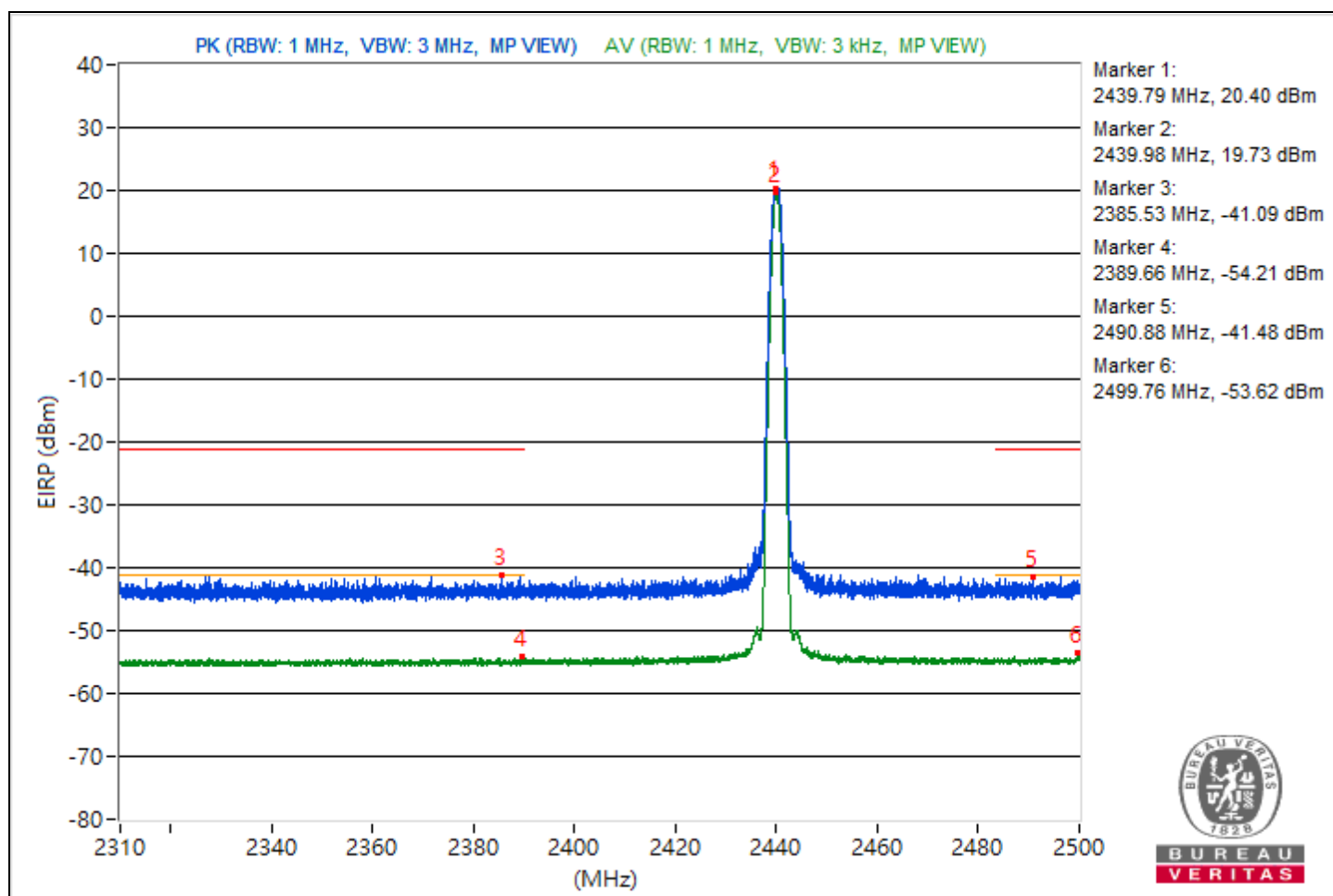


RF Mode	BT-LE 1M	Channel	CH 19 : 2440 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2439.79	115.66 PK			18.4	2	20.4
2	*2439.98	114.99 AV			17.73	2	19.73
3	2385.53	54.17 PK	74	-19.83	-43.09	2	-41.09
4	2389.66	41.05 AV	54	-12.95	-56.21	2	-54.21
5	2490.88	53.78 PK	74	-20.22	-43.48	2	-41.48
6	2499.76	41.64 AV	54	-12.36	-55.62	2	-53.62

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

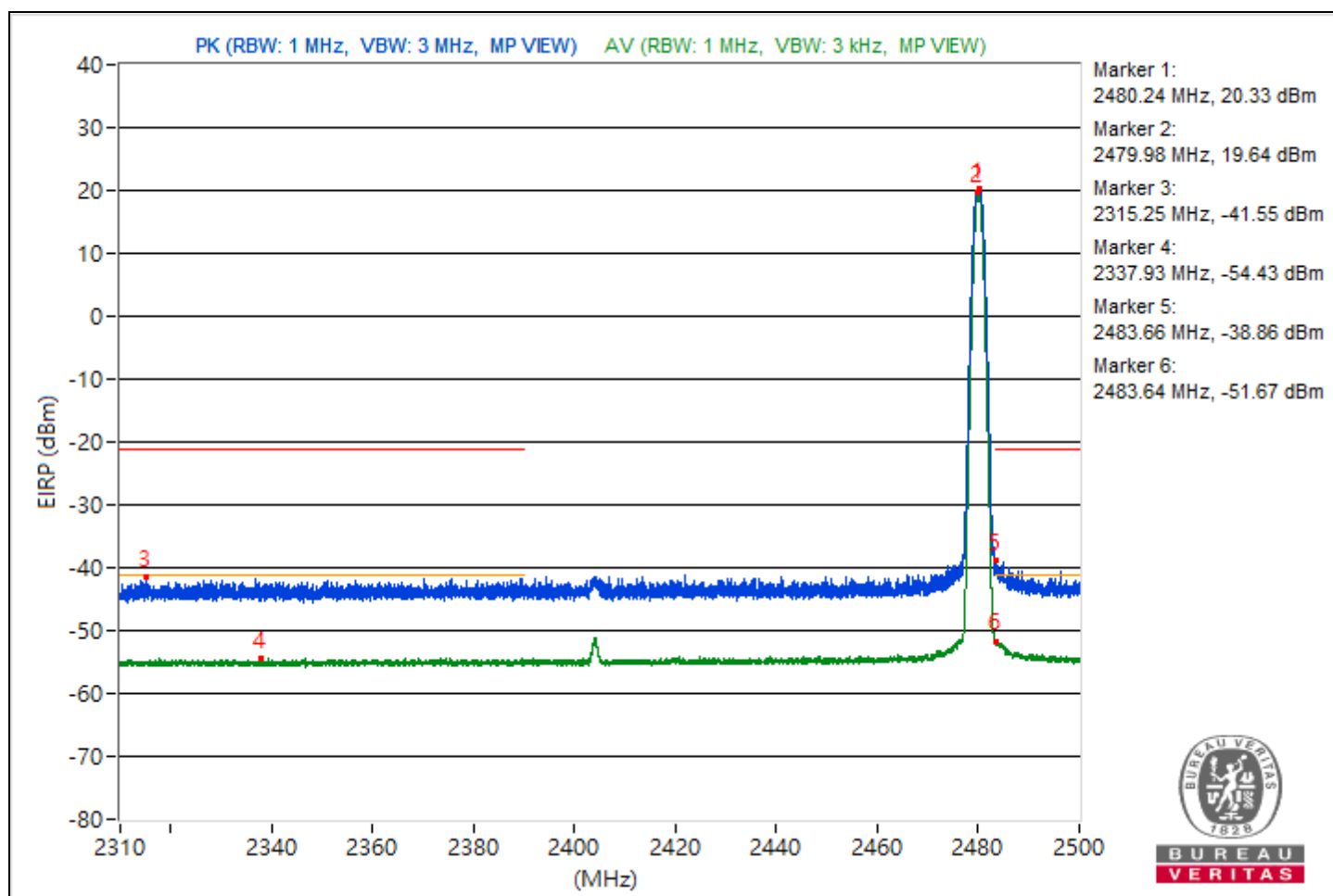


RF Mode	BT-LE 1M	Channel	CH 39 : 2480 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2480.24	115.59 PK			18.33	2	20.33
2	*2479.98	114.9 AV			17.64	2	19.64
3	2315.25	53.71 PK	74	-20.29	-43.55	2	-41.55
4	2337.93	40.83 AV	54	-13.17	-56.43	2	-54.43
5	2483.66	56.4 PK	74	-17.6	-40.86	2	-38.86
6	2483.64	43.59 AV	54	-10.41	-53.67	2	-51.67

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

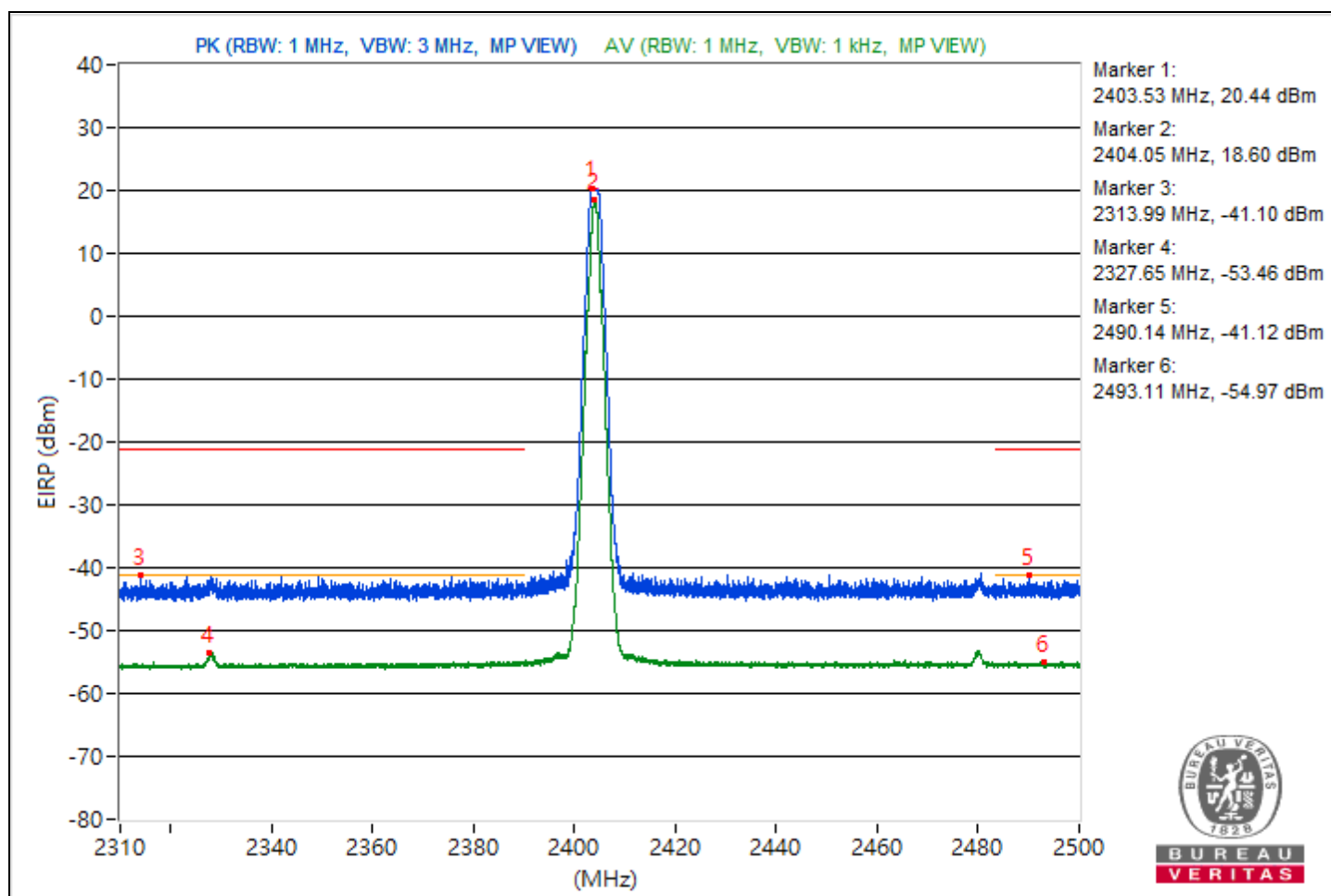


RF Mode	BT-LE 2M	Channel	CH 1 : 2404 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2403.53	115.7 PK			18.44	2	20.44
2	*2404.05	113.86 AV			16.6	2	18.6
3	2313.99	54.16 PK	74	-19.84	-43.1	2	-41.1
4	2327.65	41.8 AV	54	-12.2	-55.46	2	-53.46
5	2490.14	54.14 PK	74	-19.86	-43.12	2	-41.12
6	2493.11	40.29 AV	54	-13.71	-56.97	2	-54.97

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

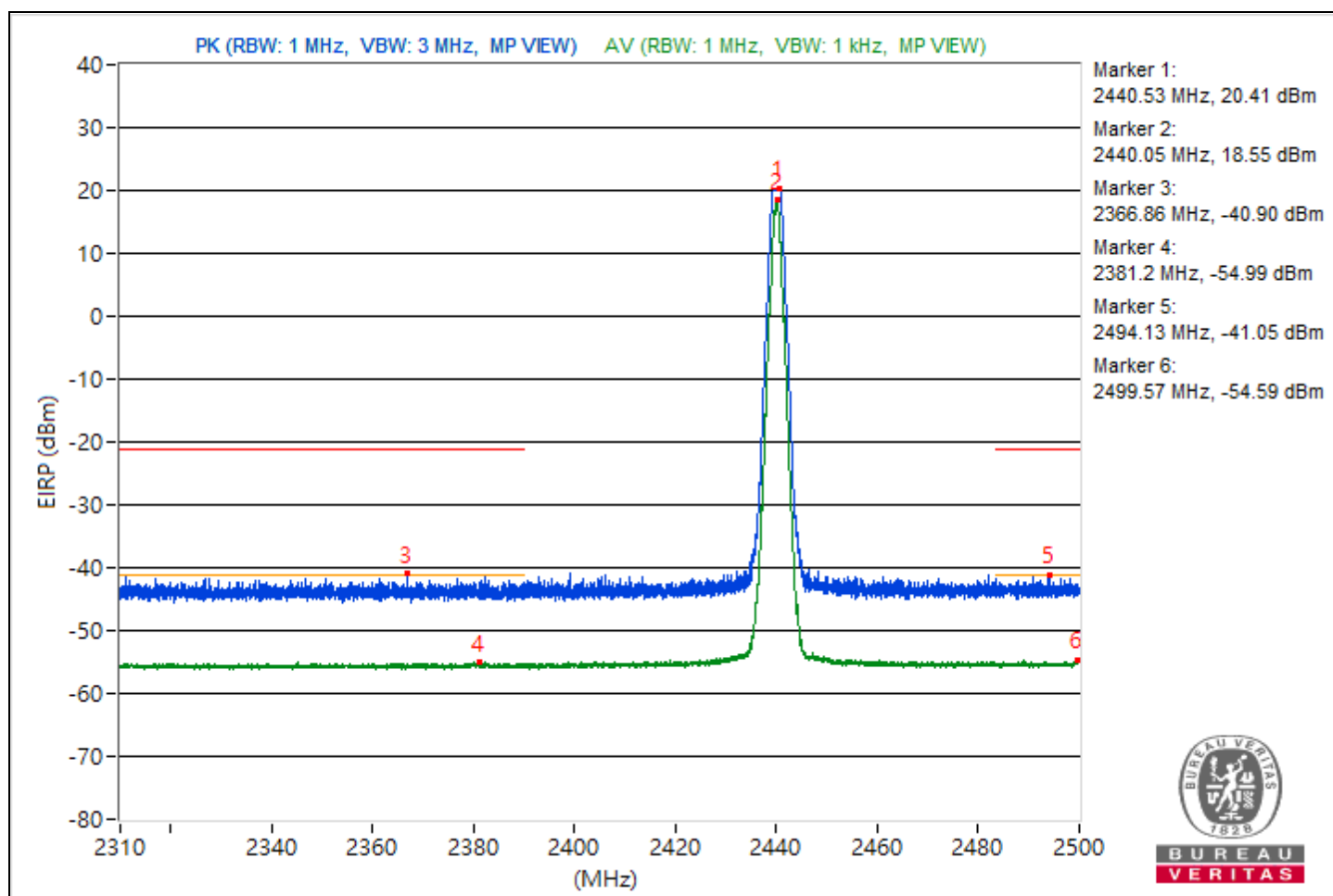


RF Mode	BT-LE 2M	Channel	CH 19 : 2440 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2440.53	115.67 PK			18.41	2	20.41
2	*2440.05	113.81 AV			16.55	2	18.55
3	2366.86	54.36 PK	74	-19.64	-42.9	2	-40.9
4	2381.2	40.27 AV	54	-13.73	-56.99	2	-54.99
5	2494.13	54.21 PK	74	-19.79	-43.05	2	-41.05
6	2499.57	40.67 AV	54	-13.33	-56.59	2	-54.59

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

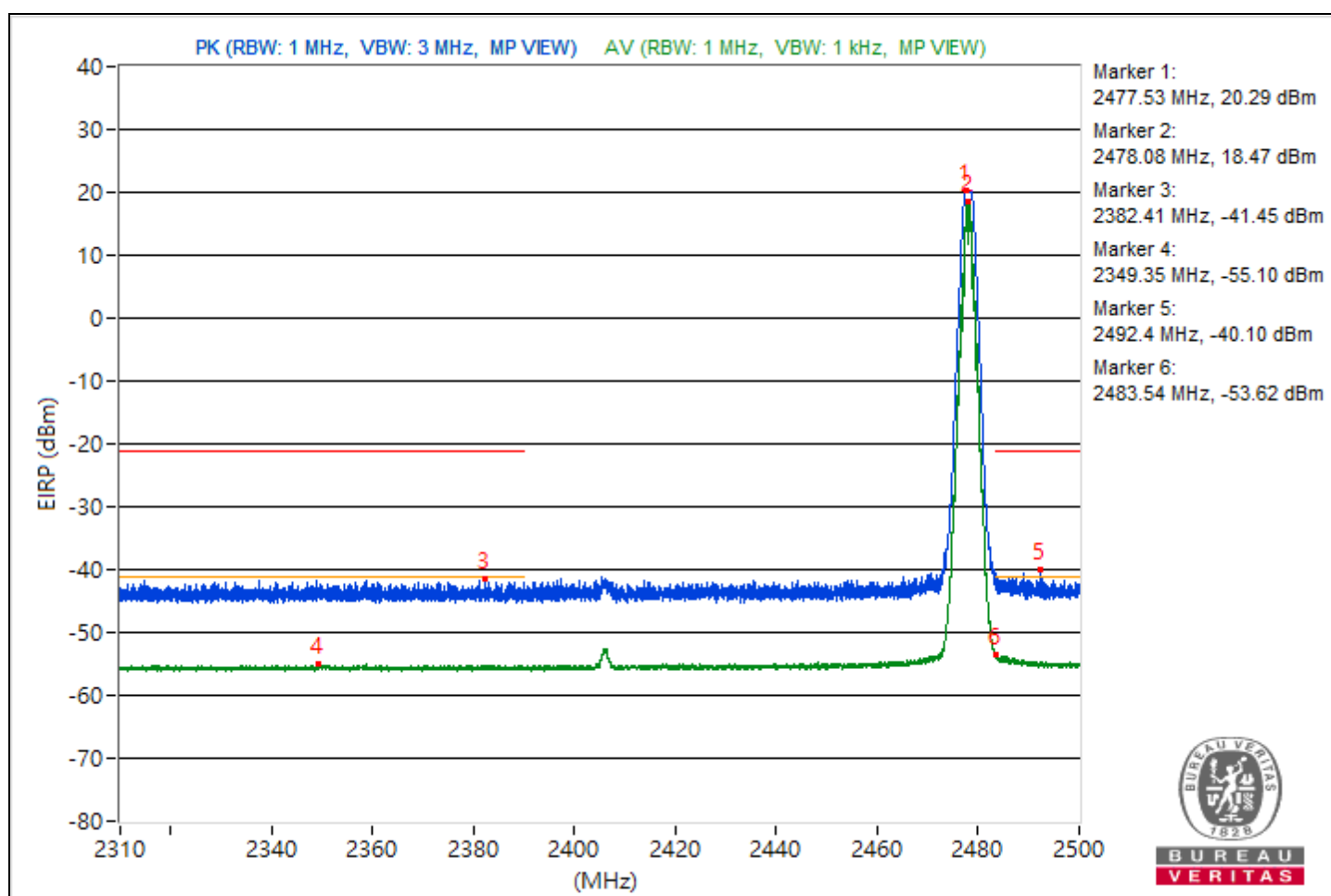


RF Mode	BT-LE 2M	Channel	CH 38 : 2478 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2477.53	115.55 PK			18.29	2	20.29
2	*2478.08	113.73 AV			16.47	2	18.47
3	2382.41	53.81 PK	74	-20.19	-43.45	2	-41.45
4	2349.35	40.16 AV	54	-13.84	-57.1	2	-55.1
5	2492.4	55.16 PK	74	-18.84	-42.1	2	-40.1
6	2483.54	41.64 AV	54	-12.36	-55.62	2	-53.62

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

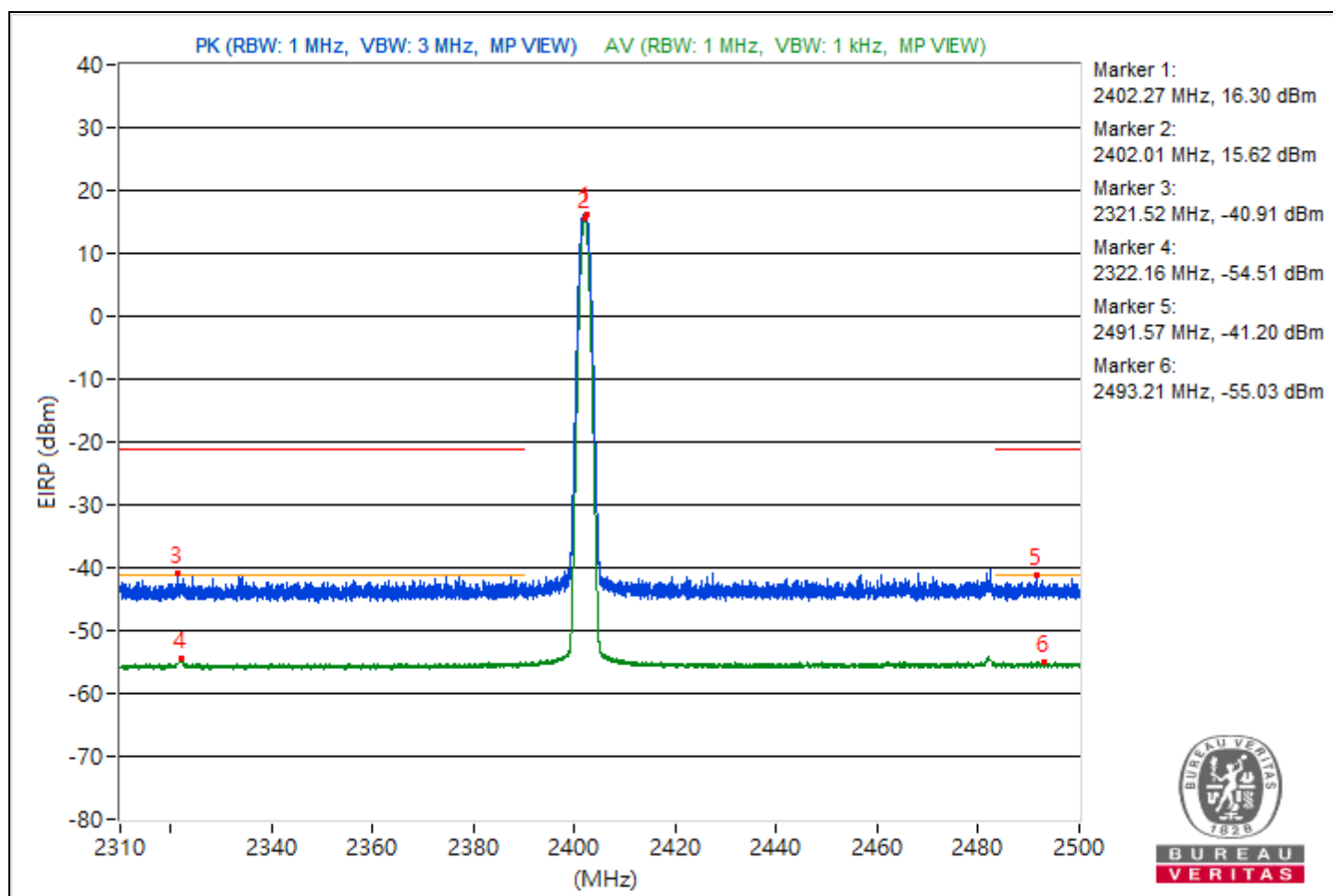


RF Mode	BT-LE 125k	Channel	CH 0 : 2402 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2402.27	111.56 PK			14.3	2	16.3
2	*2402.01	110.88 AV			13.62	2	15.62
3	2321.52	54.35 PK	74	-19.65	-42.91	2	-40.91
4	2322.16	40.75 AV	54	-13.25	-56.51	2	-54.51
5	2491.57	54.06 PK	74	-19.94	-43.2	2	-41.2
6	2493.21	40.23 AV	54	-13.77	-57.03	2	-55.03

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

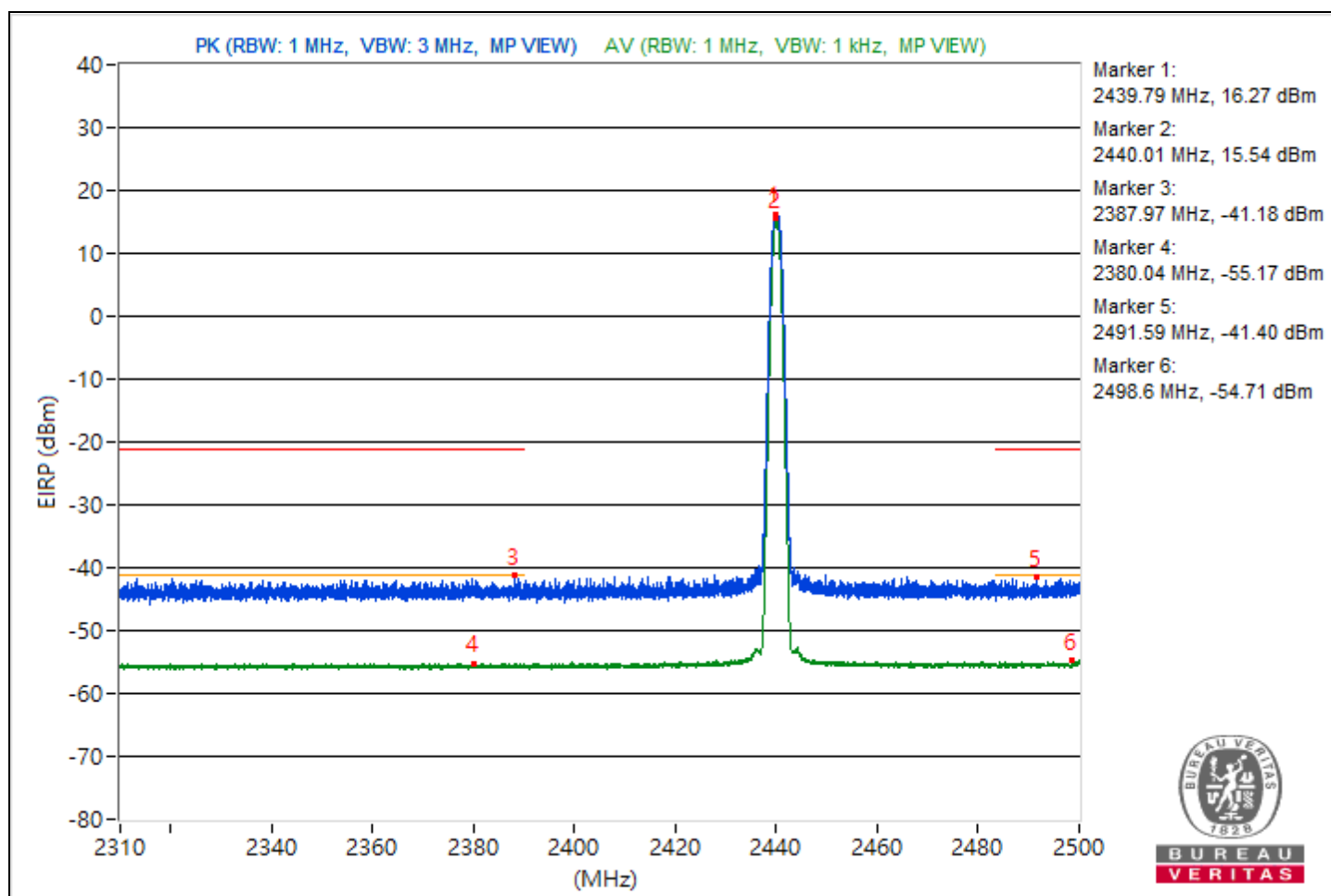


RF Mode	BT-LE 125k	Channel	CH 19 : 2440 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2439.79	111.53 PK			14.27	2	16.27
2	*2440.01	110.8 AV			13.54	2	15.54
3	2387.97	54.08 PK	74	-19.92	-43.18	2	-41.18
4	2380.04	40.09 AV	54	-13.91	-57.17	2	-55.17
5	2491.59	53.86 PK	74	-20.14	-43.4	2	-41.4
6	2498.6	40.55 AV	54	-13.45	-56.71	2	-54.71

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

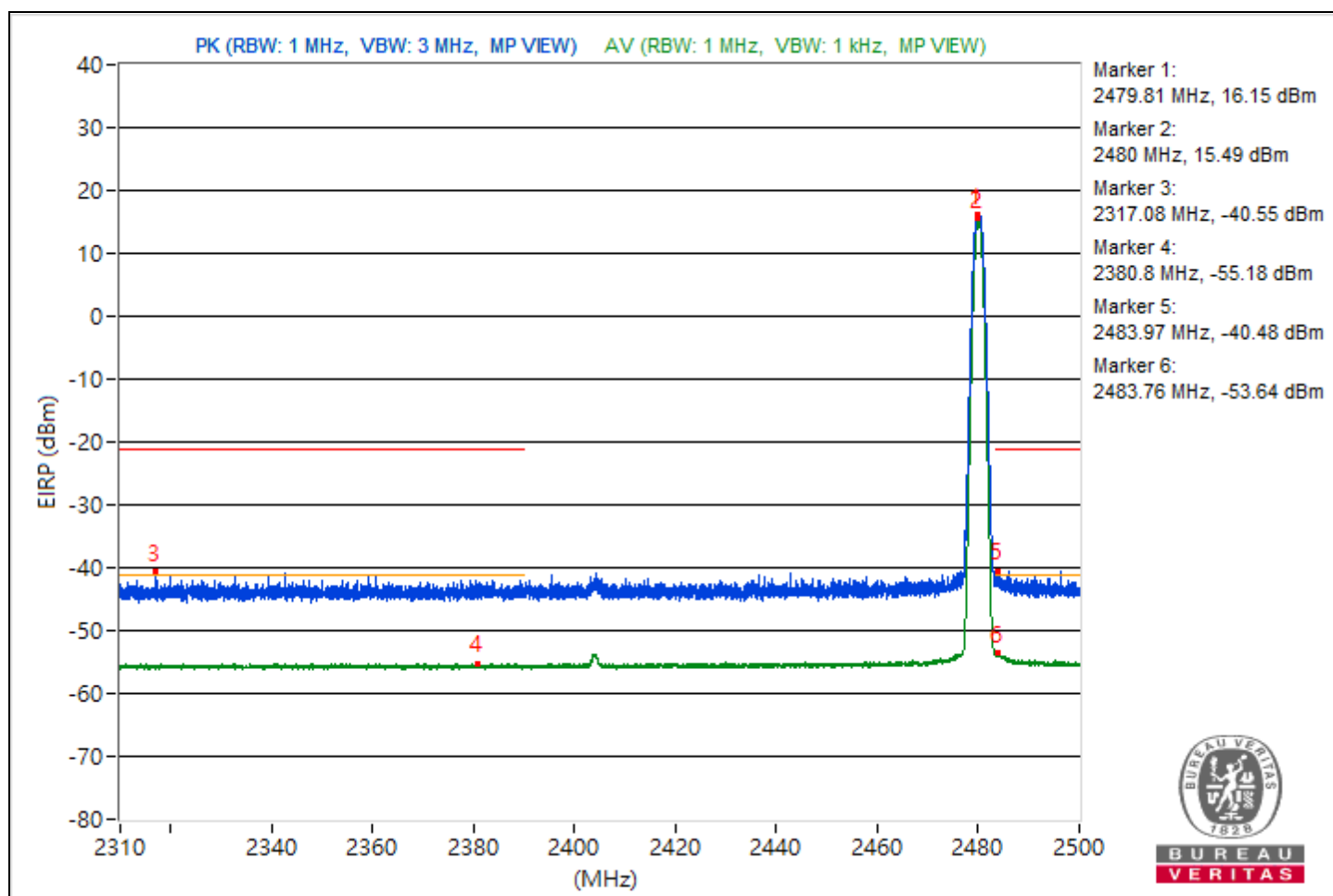


RF Mode	BT-LE 125k	Channel	CH 39 : 2480 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2479.81	111.41 PK			14.15	2	16.15
2	*2480	110.75 AV			13.49	2	15.49
3	2317.08	54.71 PK	74	-19.29	-42.55	2	-40.55
4	2380.8	40.08 AV	54	-13.92	-57.18	2	-55.18
5	2483.97	54.78 PK	74	-19.22	-42.48	2	-40.48
6	2483.76	41.62 AV	54	-12.38	-55.64	2	-53.64

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

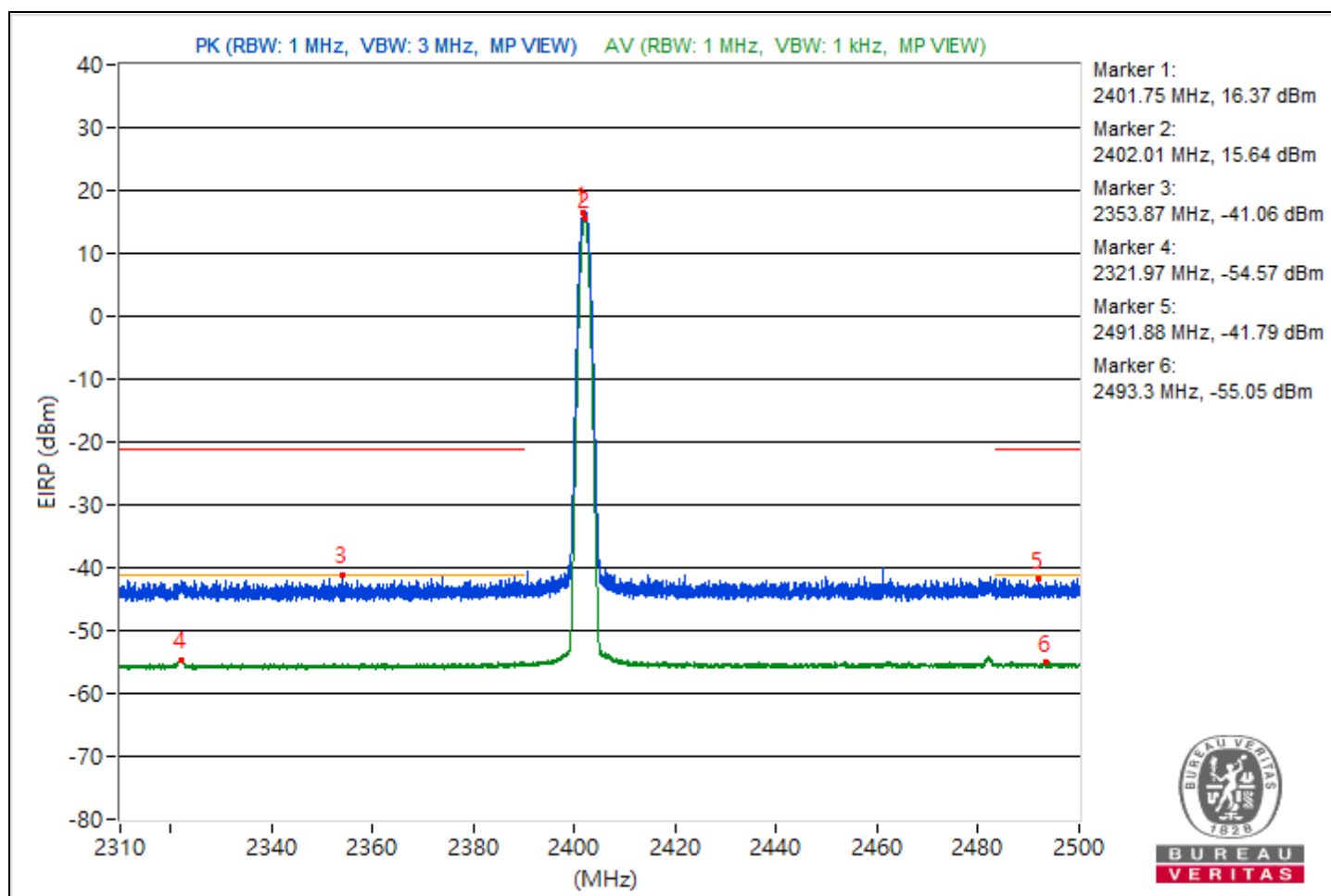


RF Mode	BT-LE 500k	Channel	CH 0 : 2402 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2401.75	111.63 PK			14.37	2	16.37
2	*2402.01	110.9 AV			13.64	2	15.64
3	2353.87	54.2 PK	74	-19.8	-43.06	2	-41.06
4	2321.97	40.69 AV	54	-13.31	-56.57	2	-54.57
5	2491.88	53.47 PK	74	-20.53	-43.79	2	-41.79
6	2493.3	40.21 AV	54	-13.79	-57.05	2	-55.05

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

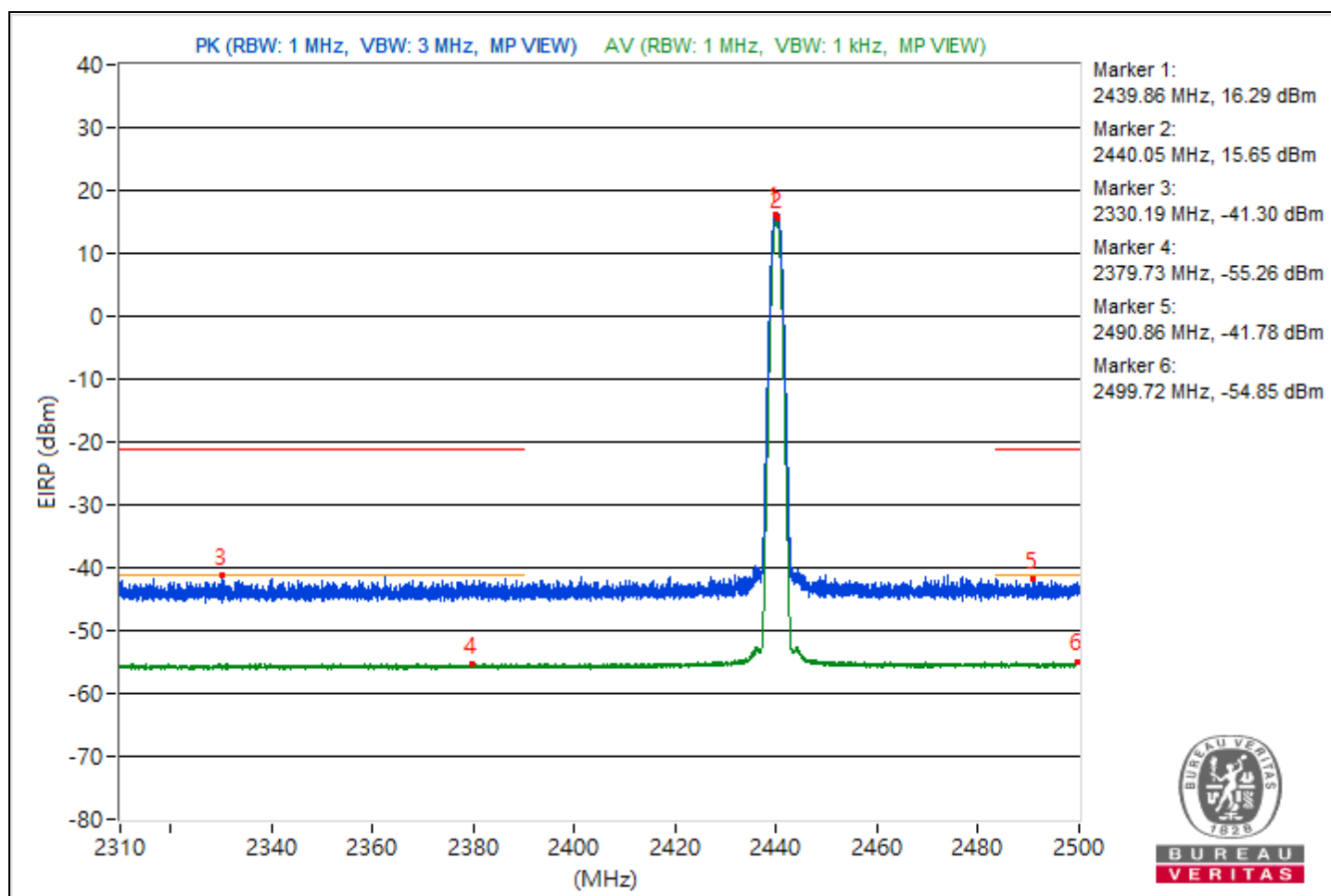


RF Mode	BT-LE 500k	Channel	CH 19 : 2440 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2439.86	111.55 PK			14.29	2	16.29
2	*2440.05	110.91 AV			13.65	2	15.65
3	2330.19	53.96 PK	74	-20.04	-43.3	2	-41.3
4	2379.73	40 AV	54	-14	-57.26	2	-55.26
5	2490.86	53.48 PK	74	-20.52	-43.78	2	-41.78
6	2499.72	40.41 AV	54	-13.59	-56.85	2	-54.85

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

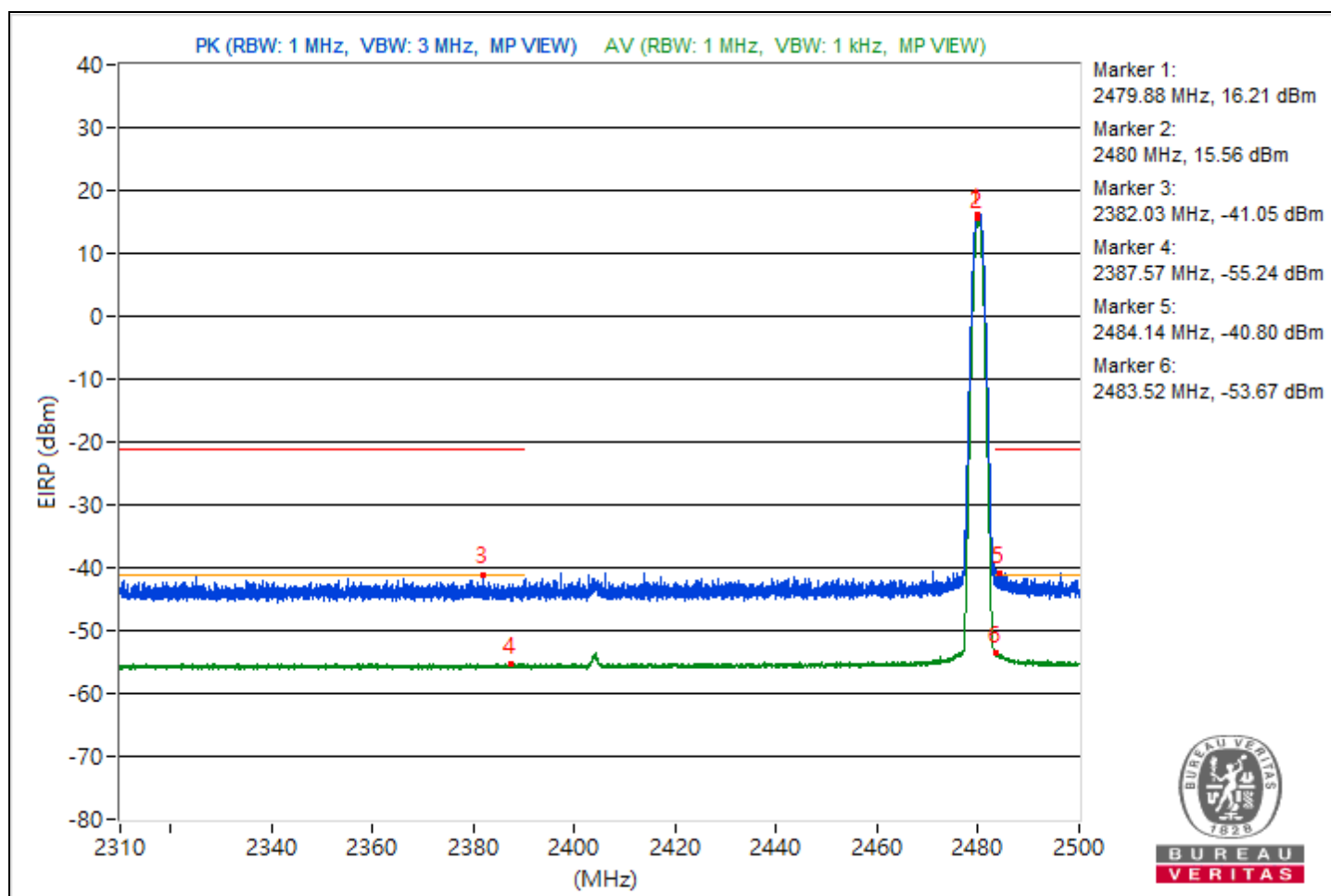


RF Mode	BT-LE 500k	Channel	CH 39 : 2480 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2479.88	111.47 PK			14.21	2	16.21
2	*2480	110.82 AV			13.56	2	15.56
3	2382.03	54.21 PK	74	-19.79	-43.05	2	-41.05
4	2387.57	40.02 AV	54	-13.98	-57.24	2	-55.24
5	2484.14	54.46 PK	74	-19.54	-42.8	2	-40.8
6	2483.52	41.59 AV	54	-12.41	-55.67	2	-53.67

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

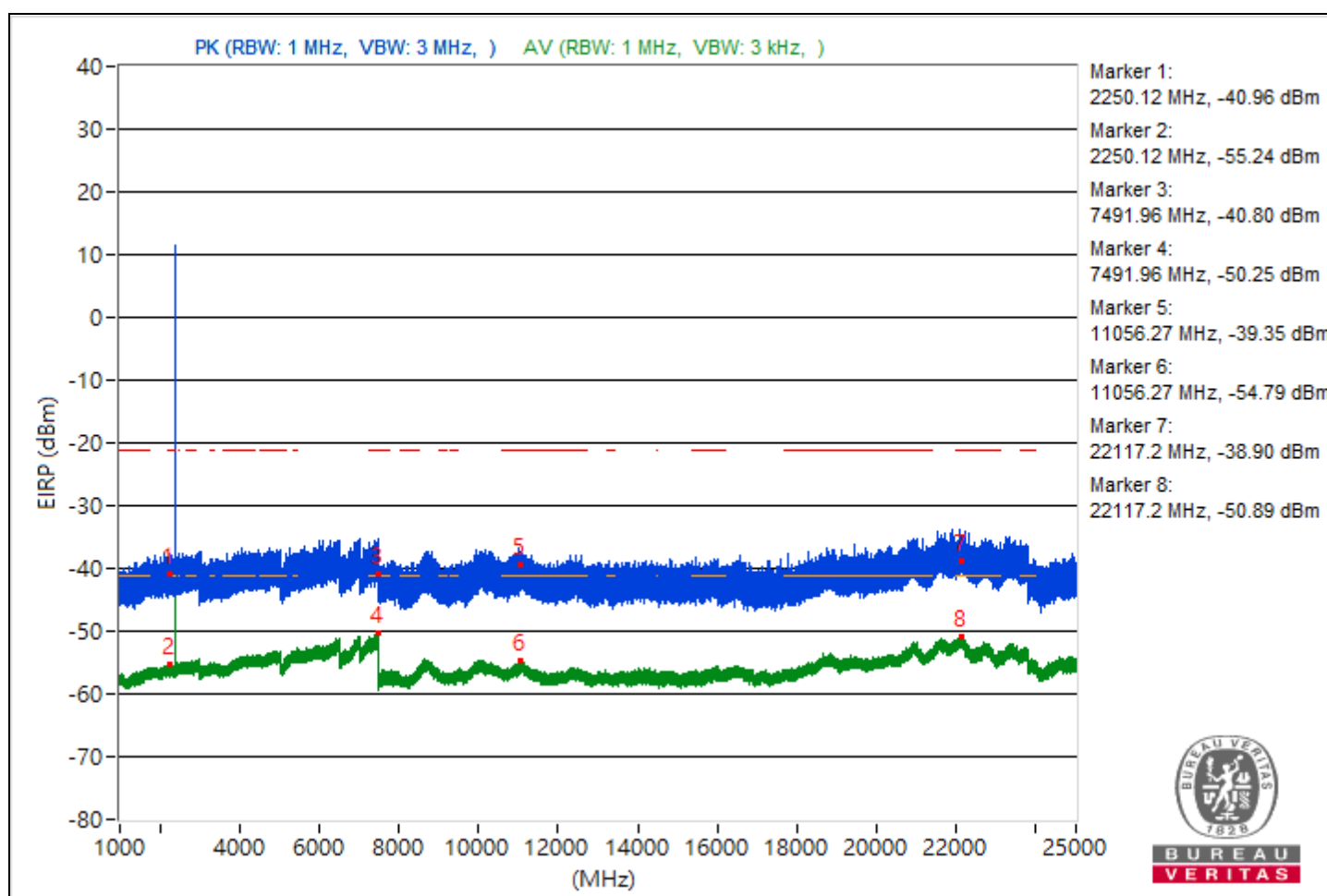


Mode A2

RF Mode	BT-LE 1M	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2250.12	54.3 PK	74	-19.7	-45.88	4.92	-40.96
2	2250.12	40.02 AV	54	-13.98	-60.16	4.92	-55.24
3	7491.96	54.46 PK	74	-19.54	-45.72	4.92	-40.8
4	7491.96	45.01 AV	54	-8.99	-55.17	4.92	-50.25
5	11056.27	55.91 PK	74	-18.09	-44.27	4.92	-39.35
6	11056.27	40.47 AV	54	-13.53	-59.71	4.92	-54.79
7	22117.2	56.36 PK	74	-17.64	-43.82	4.92	-38.9
8	22117.2	44.37 AV	54	-9.63	-55.81	4.92	-50.89

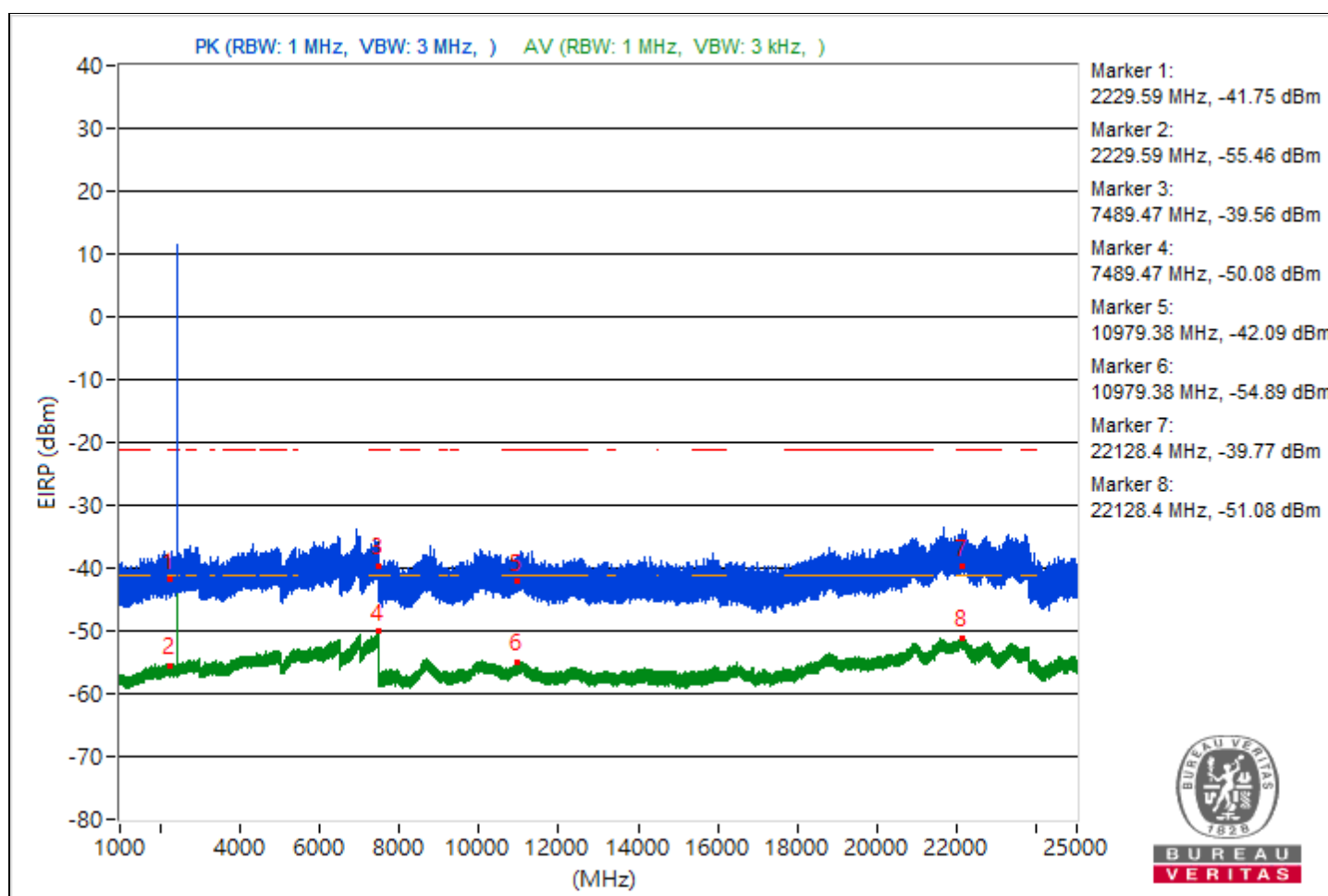
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 1M	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2229.59	53.51 PK	74	-20.49	-46.67	4.92	-41.75
2	2229.59	39.8 AV	54	-14.2	-60.38	4.92	-55.46
3	7489.47	55.7 PK	74	-18.3	-44.48	4.92	-39.56
4	7489.47	45.18 AV	54	-8.82	-55	4.92	-50.08
5	10979.38	53.17 PK	74	-20.83	-47.01	4.92	-42.09
6	10979.38	40.37 AV	54	-13.63	-59.81	4.92	-54.89
7	22128.4	55.49 PK	74	-18.51	-44.69	4.92	-39.77
8	22128.4	44.18 AV	54	-9.82	-56	4.92	-51.08

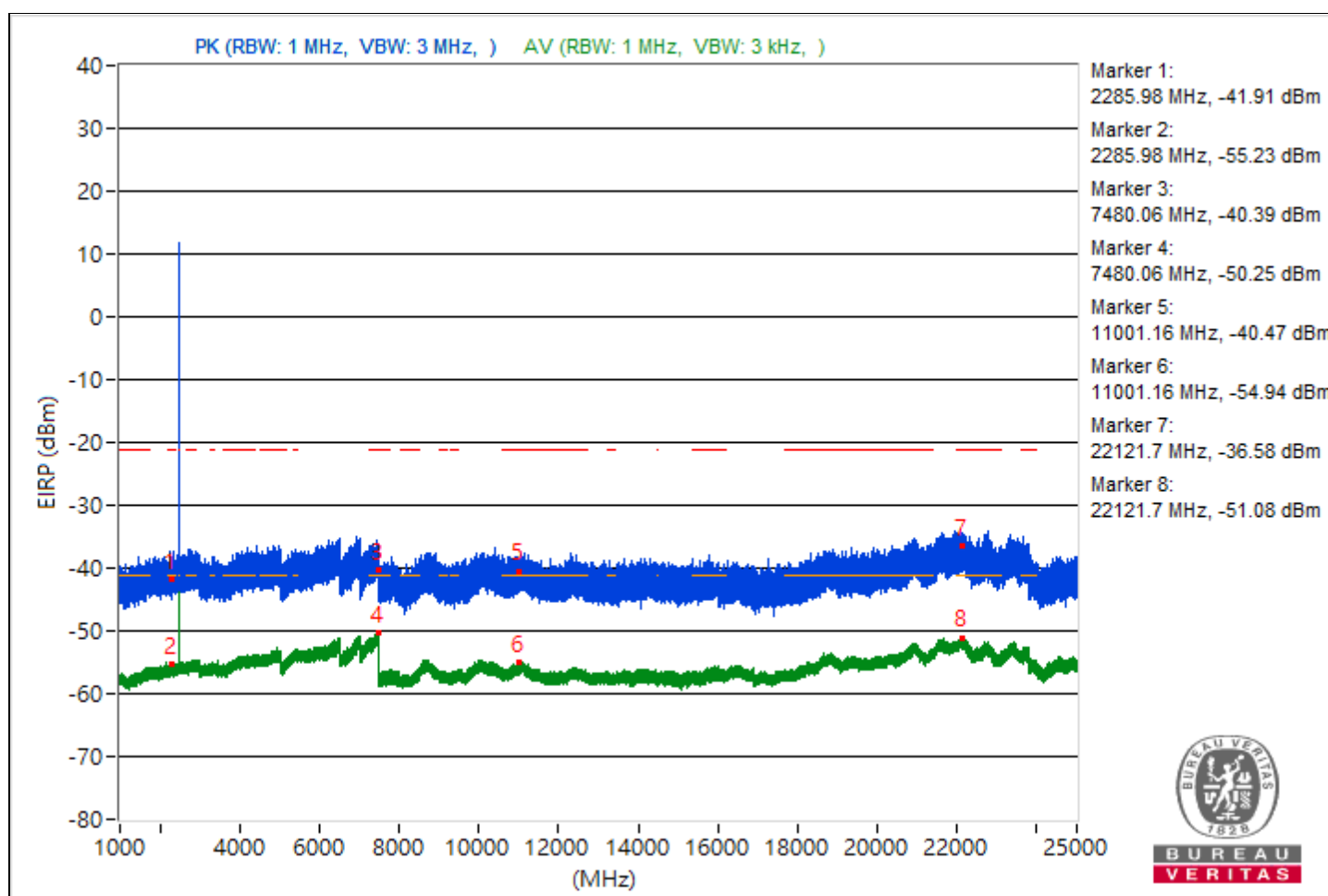
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 1M	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2285.98	53.35 PK	74	-20.65	-46.83	4.92	-41.91
2	2285.98	40.03 AV	54	-13.97	-60.15	4.92	-55.23
3	7480.06	54.87 PK	74	-19.13	-45.31	4.92	-40.39
4	7480.06	45.01 AV	54	-8.99	-55.17	4.92	-50.25
5	11001.16	54.79 PK	74	-19.21	-45.39	4.92	-40.47
6	11001.16	40.32 AV	54	-13.68	-59.86	4.92	-54.94
7	22121.7	58.68 PK	74	-15.32	-41.5	4.92	-36.58
8	22121.7	44.18 AV	54	-9.82	-56	4.92	-51.08

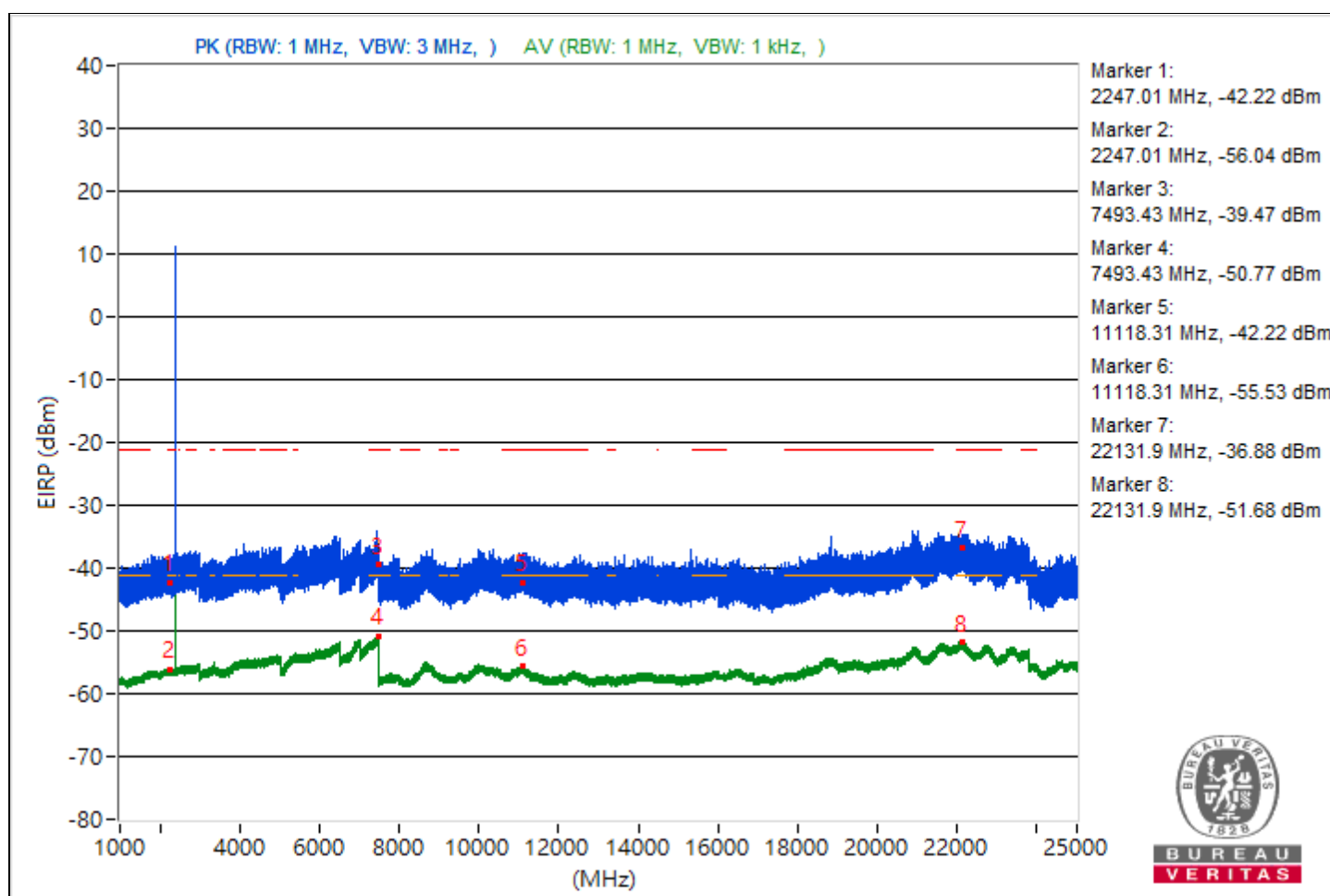
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 2M	Channel	CH 1 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2247.01	53.04 PK	74	-20.96	-47.14	4.92	-42.22
2	2247.01	39.22 AV	54	-14.78	-60.96	4.92	-56.04
3	7493.43	55.79 PK	74	-18.21	-44.39	4.92	-39.47
4	7493.43	44.49 AV	54	-9.51	-55.69	4.92	-50.77
5	11118.31	53.04 PK	74	-20.96	-47.14	4.92	-42.22
6	11118.31	39.73 AV	54	-14.27	-60.45	4.92	-55.53
7	22131.9	58.38 PK	74	-15.62	-41.8	4.92	-36.88
8	22131.9	43.58 AV	54	-10.42	-56.6	4.92	-51.68

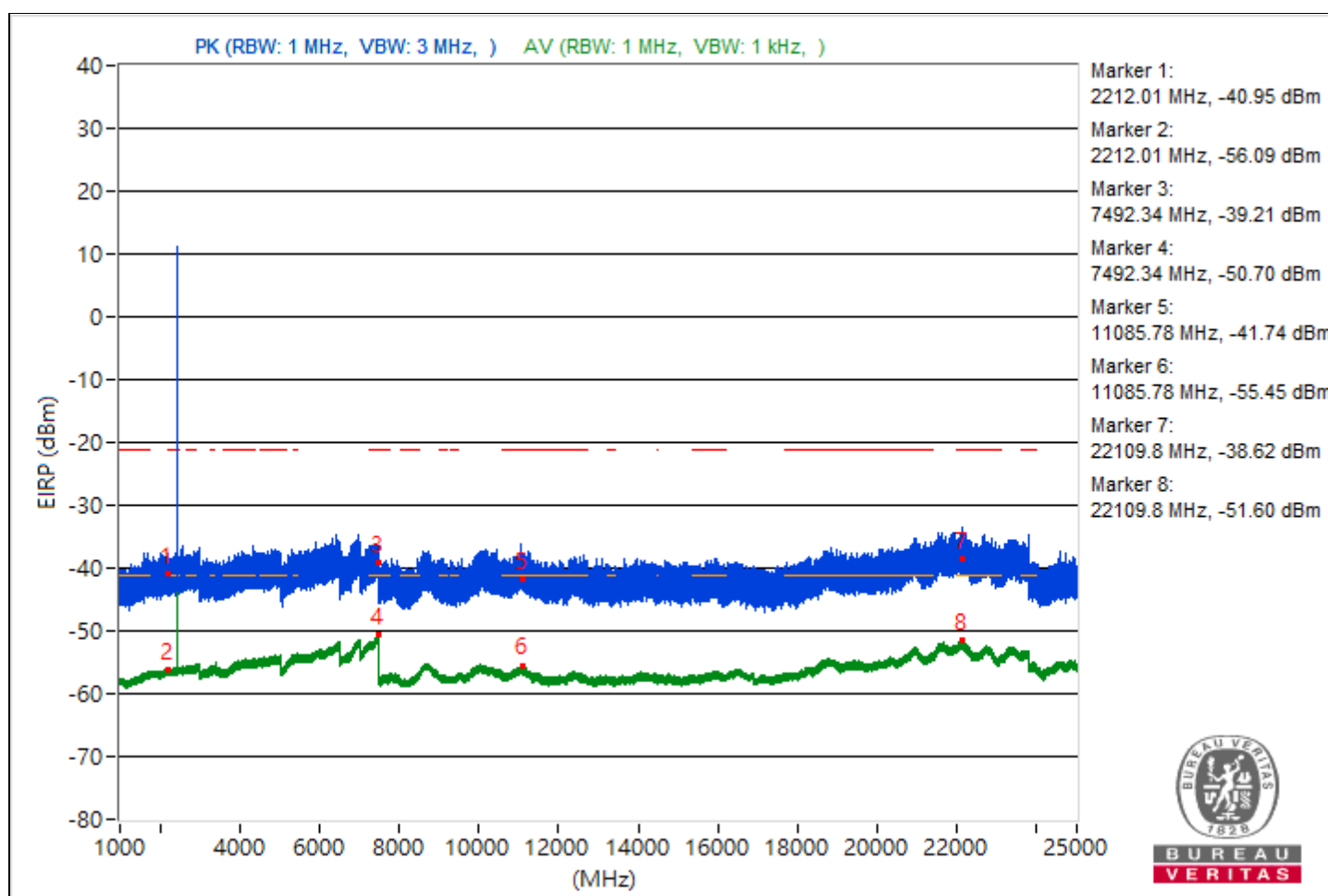
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 2M	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2212.01	54.31 PK	74	-19.69	-45.87	4.92	-40.95
2	2212.01	39.17 AV	54	-14.83	-61.01	4.92	-56.09
3	7492.34	56.05 PK	74	-17.95	-44.13	4.92	-39.21
4	7492.34	44.56 AV	54	-9.44	-55.62	4.92	-50.7
5	11085.78	53.52 PK	74	-20.48	-46.66	4.92	-41.74
6	11085.78	39.81 AV	54	-14.19	-60.37	4.92	-55.45
7	22109.8	56.64 PK	74	-17.36	-43.54	4.92	-38.62
8	22109.8	43.66 AV	54	-10.34	-56.52	4.92	-51.6

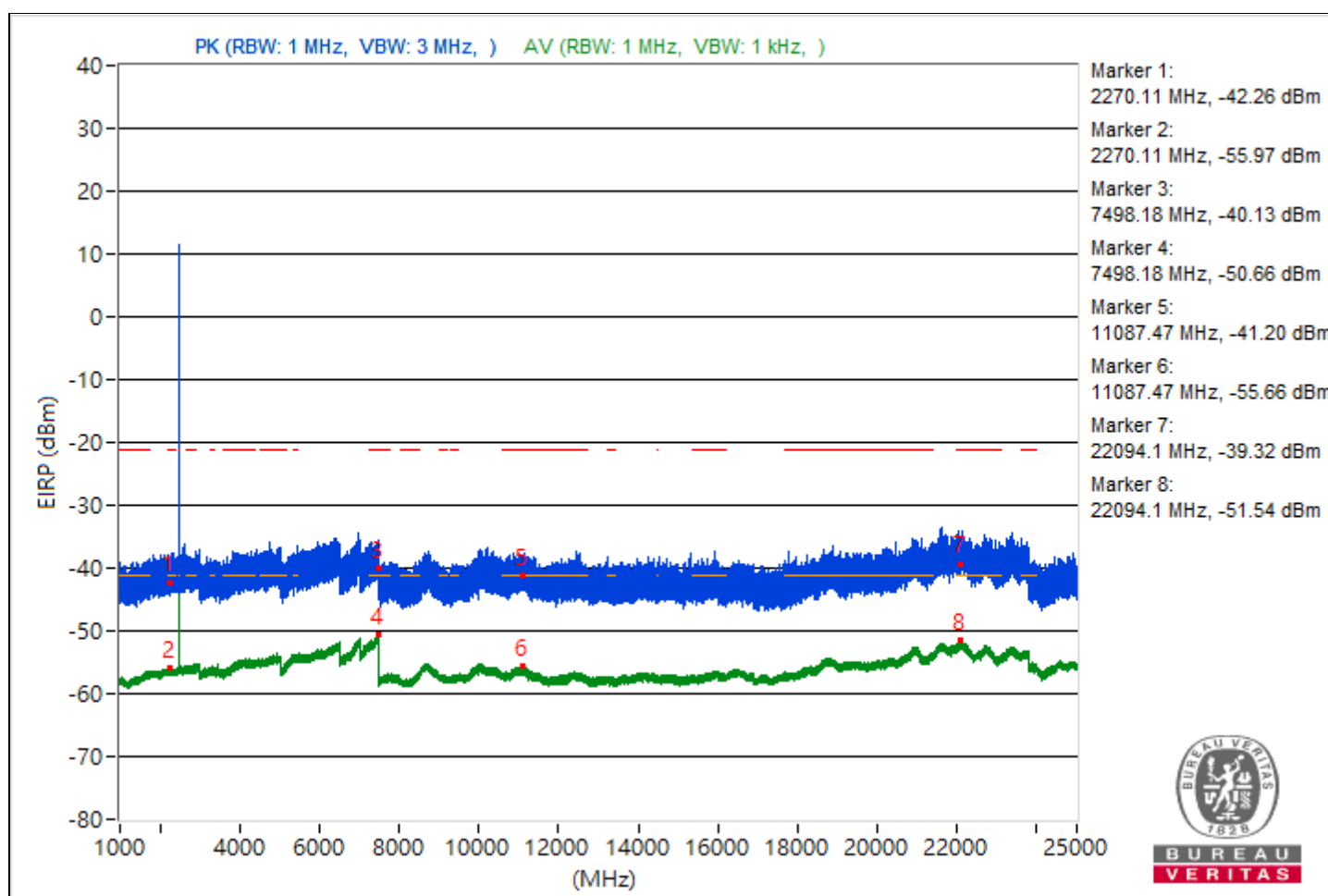
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 2M	Channel	CH 38 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2270.11	53 PK	74	-21	-47.18	4.92	-42.26
2	2270.11	39.29 AV	54	-14.71	-60.89	4.92	-55.97
3	7498.18	55.13 PK	74	-18.87	-45.05	4.92	-40.13
4	7498.18	44.6 AV	54	-9.4	-55.58	4.92	-50.66
5	11087.47	54.06 PK	74	-19.94	-46.12	4.92	-41.2
6	11087.47	39.6 AV	54	-14.4	-60.58	4.92	-55.66
7	22094.1	55.94 PK	74	-18.06	-44.24	4.92	-39.32
8	22094.1	43.72 AV	54	-10.28	-56.46	4.92	-51.54

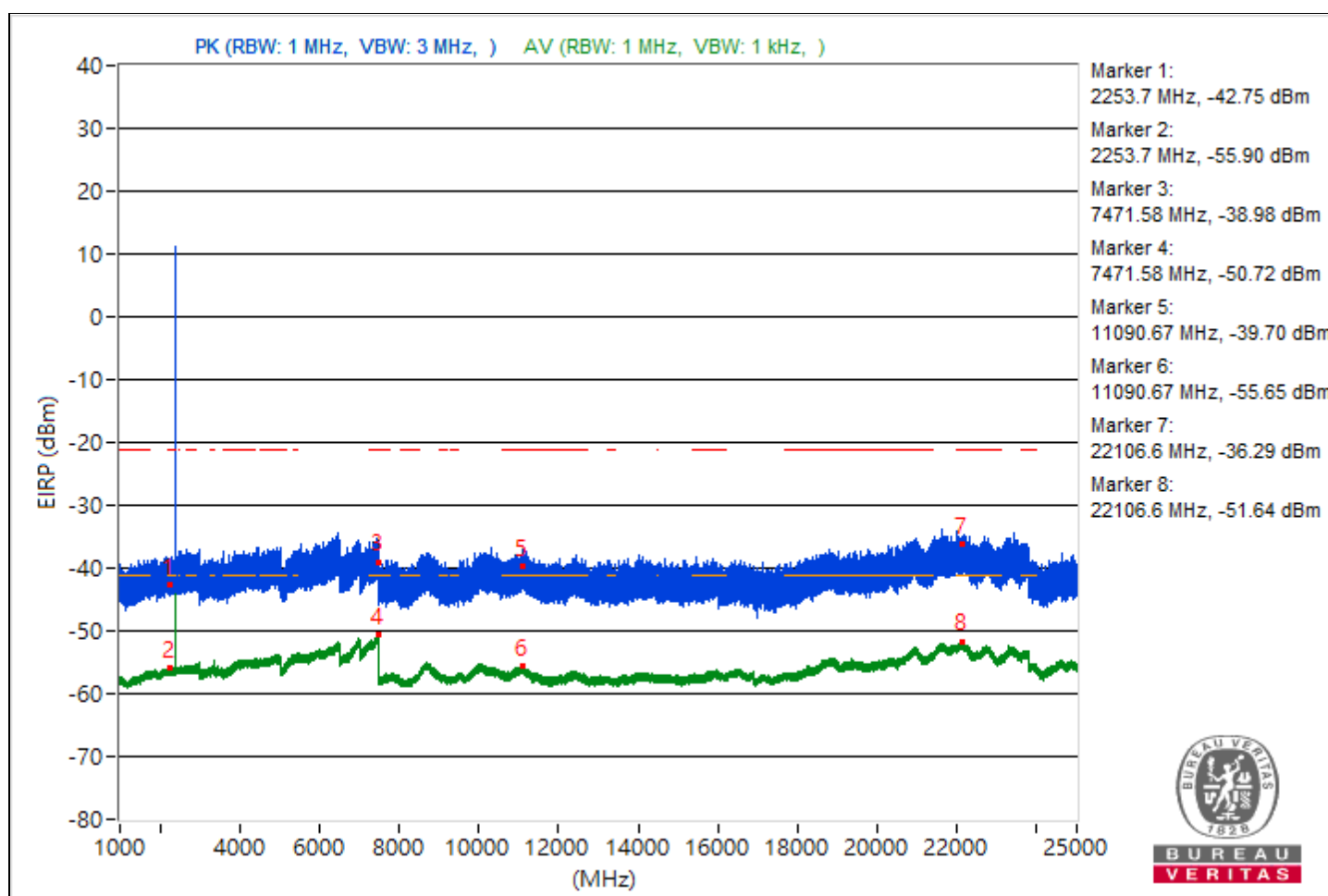
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 125k	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2253.7	52.51 PK	74	-21.49	-47.67	4.92	-42.75
2	2253.7	39.36 AV	54	-14.64	-60.82	4.92	-55.9
3	7471.58	56.28 PK	74	-17.72	-43.9	4.92	-38.98
4	7471.58	44.54 AV	54	-9.46	-55.64	4.92	-50.72
5	11090.67	55.56 PK	74	-18.44	-44.62	4.92	-39.7
6	11090.67	39.61 AV	54	-14.39	-60.57	4.92	-55.65
7	22106.6	58.97 PK	74	-15.03	-41.21	4.92	-36.29
8	22106.6	43.62 AV	54	-10.38	-56.56	4.92	-51.64

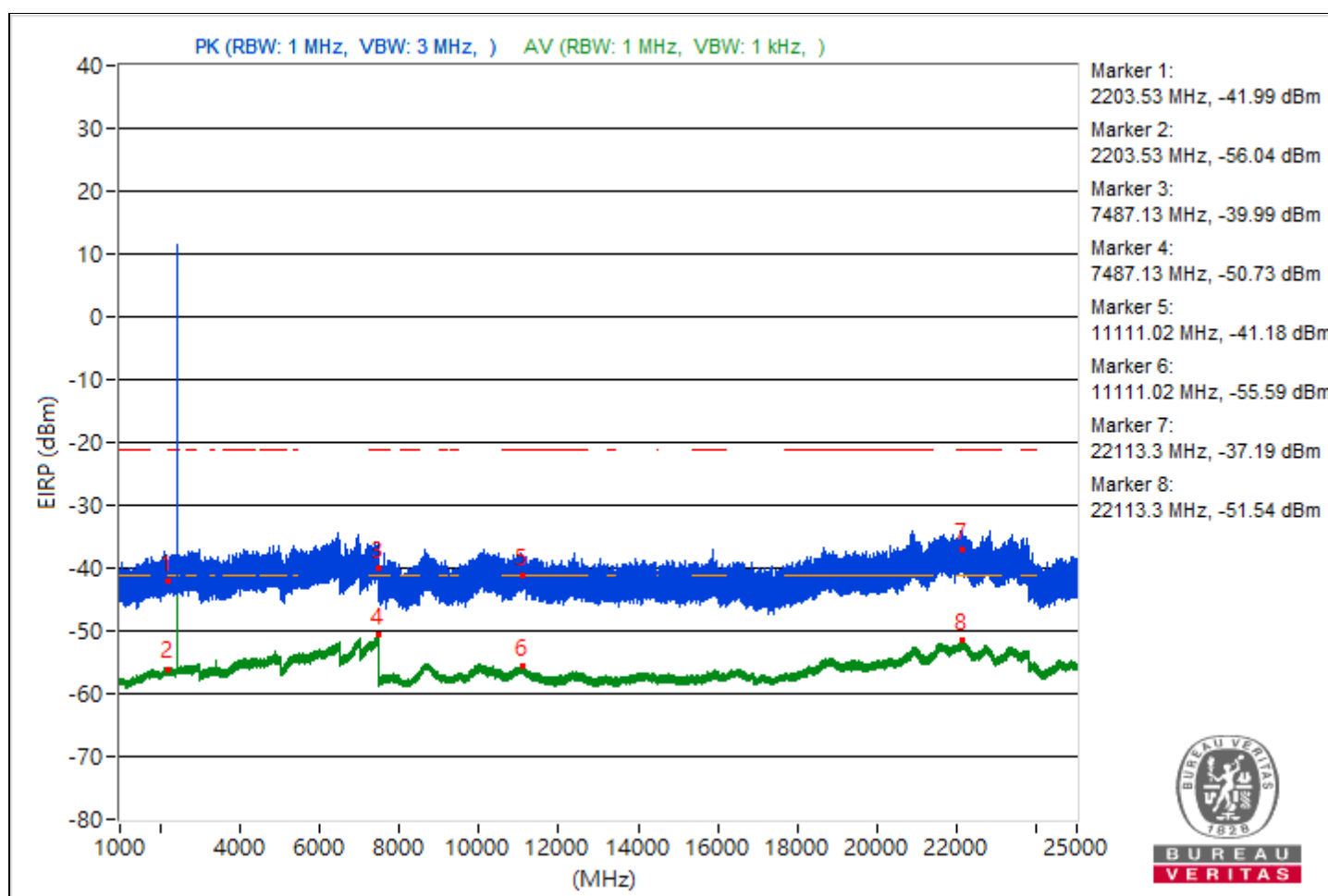
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 125k	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2203.53	53.27 PK	74	-20.73	-46.91	4.92	-41.99
2	2203.53	39.22 AV	54	-14.78	-60.96	4.92	-56.04
3	7487.13	55.27 PK	74	-18.73	-44.91	4.92	-39.99
4	7487.13	44.53 AV	54	-9.47	-55.65	4.92	-50.73
5	11111.02	54.08 PK	74	-19.92	-46.1	4.92	-41.18
6	11111.02	39.67 AV	54	-14.33	-60.51	4.92	-55.59
7	22113.3	58.07 PK	74	-15.93	-42.11	4.92	-37.19
8	22113.3	43.72 AV	54	-10.28	-56.46	4.92	-51.54

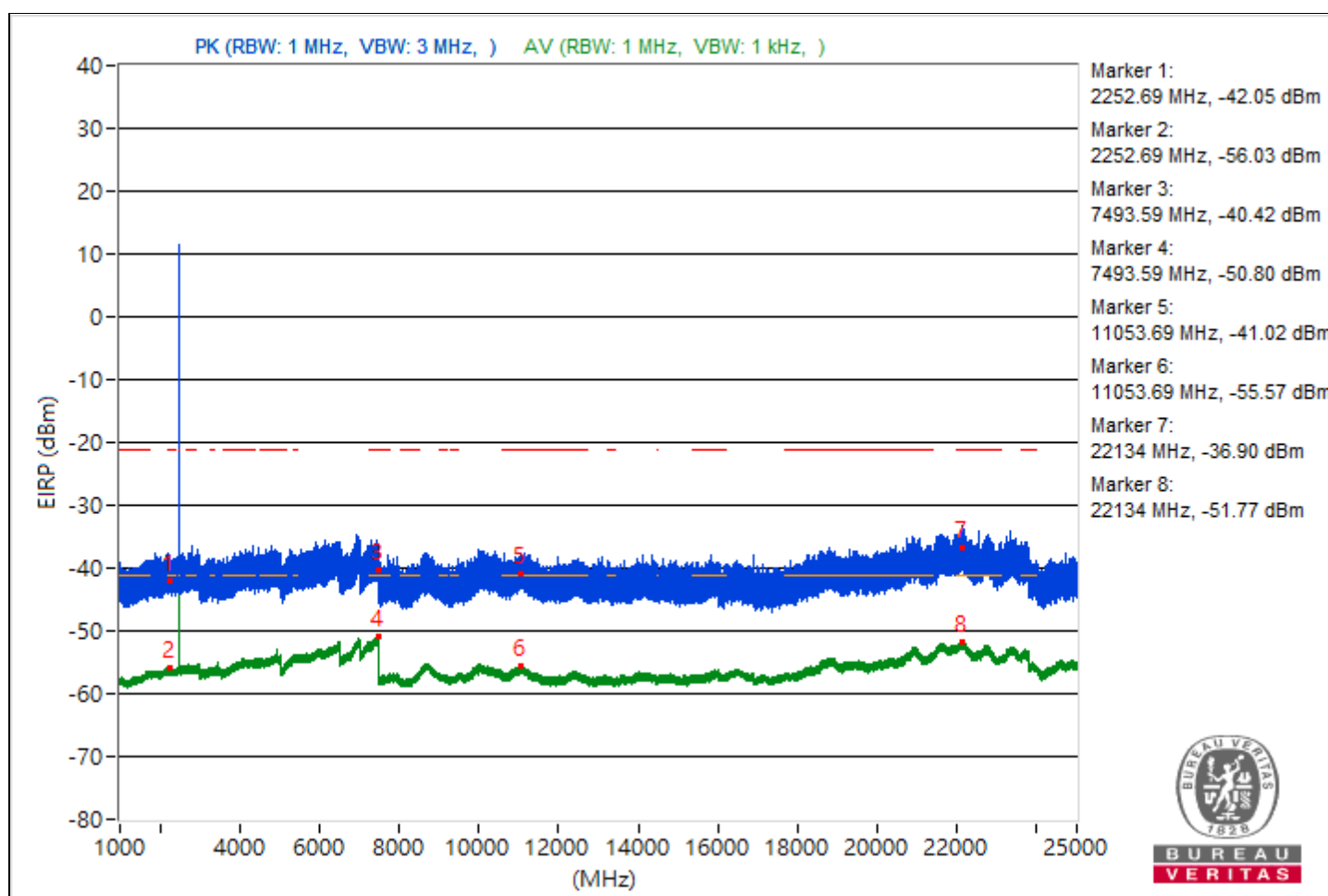
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 125k	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2252.69	53.21 PK	74	-20.79	-46.97	4.92	-42.05
2	2252.69	39.23 AV	54	-14.77	-60.95	4.92	-56.03
3	7493.59	54.84 PK	74	-19.16	-45.34	4.92	-40.42
4	7493.59	44.46 AV	54	-9.54	-55.72	4.92	-50.8
5	11053.69	54.24 PK	74	-19.76	-45.94	4.92	-41.02
6	11053.69	39.69 AV	54	-14.31	-60.49	4.92	-55.57
7	22134	58.36 PK	74	-15.64	-41.82	4.92	-36.9
8	22134	43.49 AV	54	-10.51	-56.69	4.92	-51.77

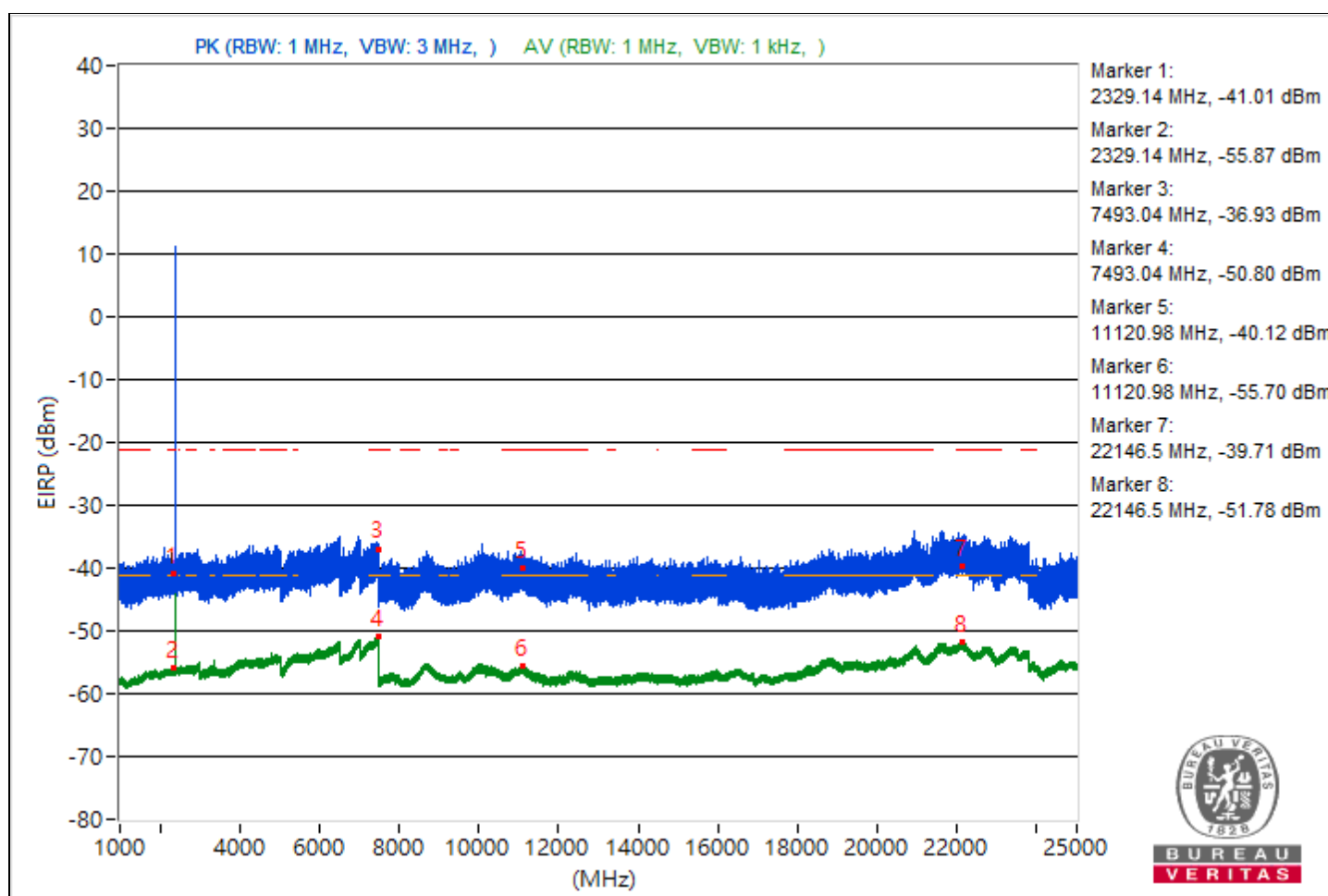
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 500k	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2329.14	54.25 PK	74	-19.75	-45.93	4.92	-41.01
2	2329.14	39.39 AV	54	-14.61	-60.79	4.92	-55.87
3	7493.04	58.33 PK	74	-15.67	-41.85	4.92	-36.93
4	7493.04	44.46 AV	54	-9.54	-55.72	4.92	-50.8
5	11120.98	55.14 PK	74	-18.86	-45.04	4.92	-40.12
6	11120.98	39.56 AV	54	-14.44	-60.62	4.92	-55.7
7	22146.5	55.55 PK	74	-18.45	-44.63	4.92	-39.71
8	22146.5	43.48 AV	54	-10.52	-56.7	4.92	-51.78

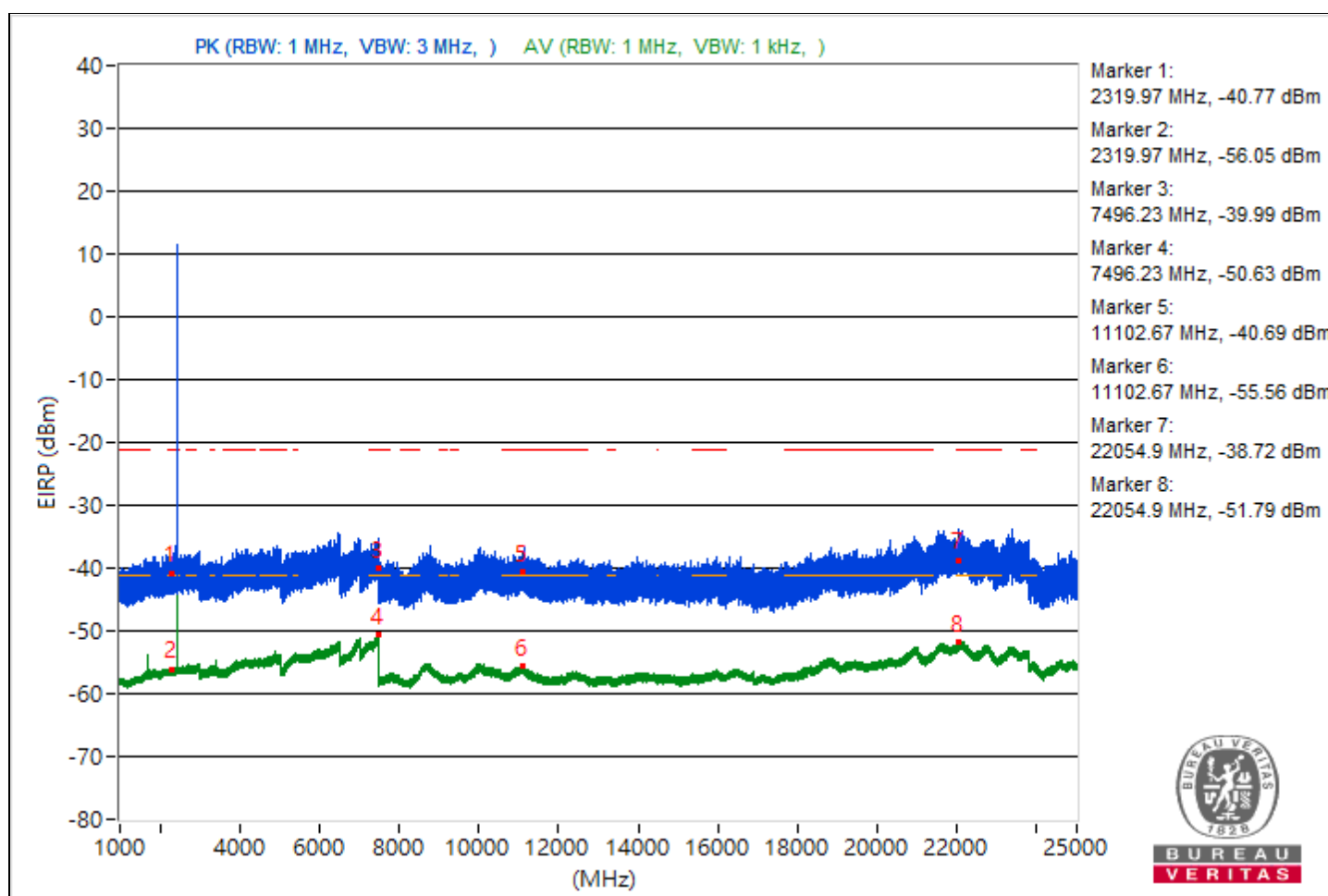
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 500k	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2319.97	54.49 PK	74	-19.51	-45.69	4.92	-40.77
2	2319.97	39.21 AV	54	-14.79	-60.97	4.92	-56.05
3	7496.23	55.27 PK	74	-18.73	-44.91	4.92	-39.99
4	7496.23	44.63 AV	54	-9.37	-55.55	4.92	-50.63
5	11102.67	54.57 PK	74	-19.43	-45.61	4.92	-40.69
6	11102.67	39.7 AV	54	-14.3	-60.48	4.92	-55.56
7	22054.9	56.54 PK	74	-17.46	-43.64	4.92	-38.72
8	22054.9	43.47 AV	54	-10.53	-56.71	4.92	-51.79

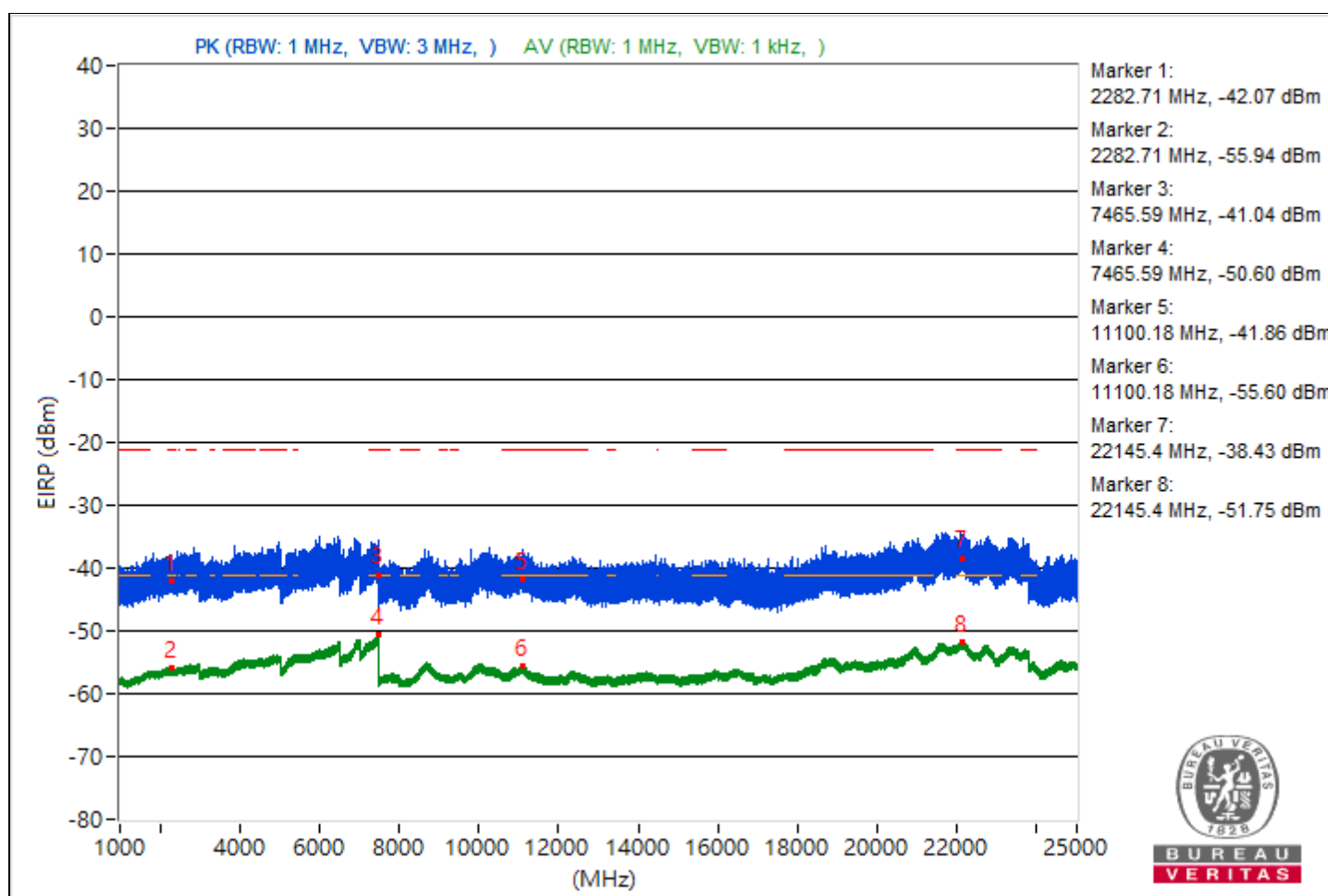
Note: Margin value = Emission Level - Limit value



RF Mode	BT-LE 500k	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	2282.71	53.19 PK	74	-20.81	-46.99	4.92	-42.07
2	2282.71	39.32 AV	54	-14.68	-60.86	4.92	-55.94
3	7465.59	54.22 PK	74	-19.78	-45.96	4.92	-41.04
4	7465.59	44.66 AV	54	-9.34	-55.52	4.92	-50.6
5	11100.18	53.4 PK	74	-20.6	-46.78	4.92	-41.86
6	11100.18	39.66 AV	54	-14.34	-60.52	4.92	-55.6
7	22145.4	56.83 PK	74	-17.17	-43.35	4.92	-38.43
8	22145.4	43.51 AV	54	-10.49	-56.67	4.92	-51.75

Note: Margin value = Emission Level - Limit value



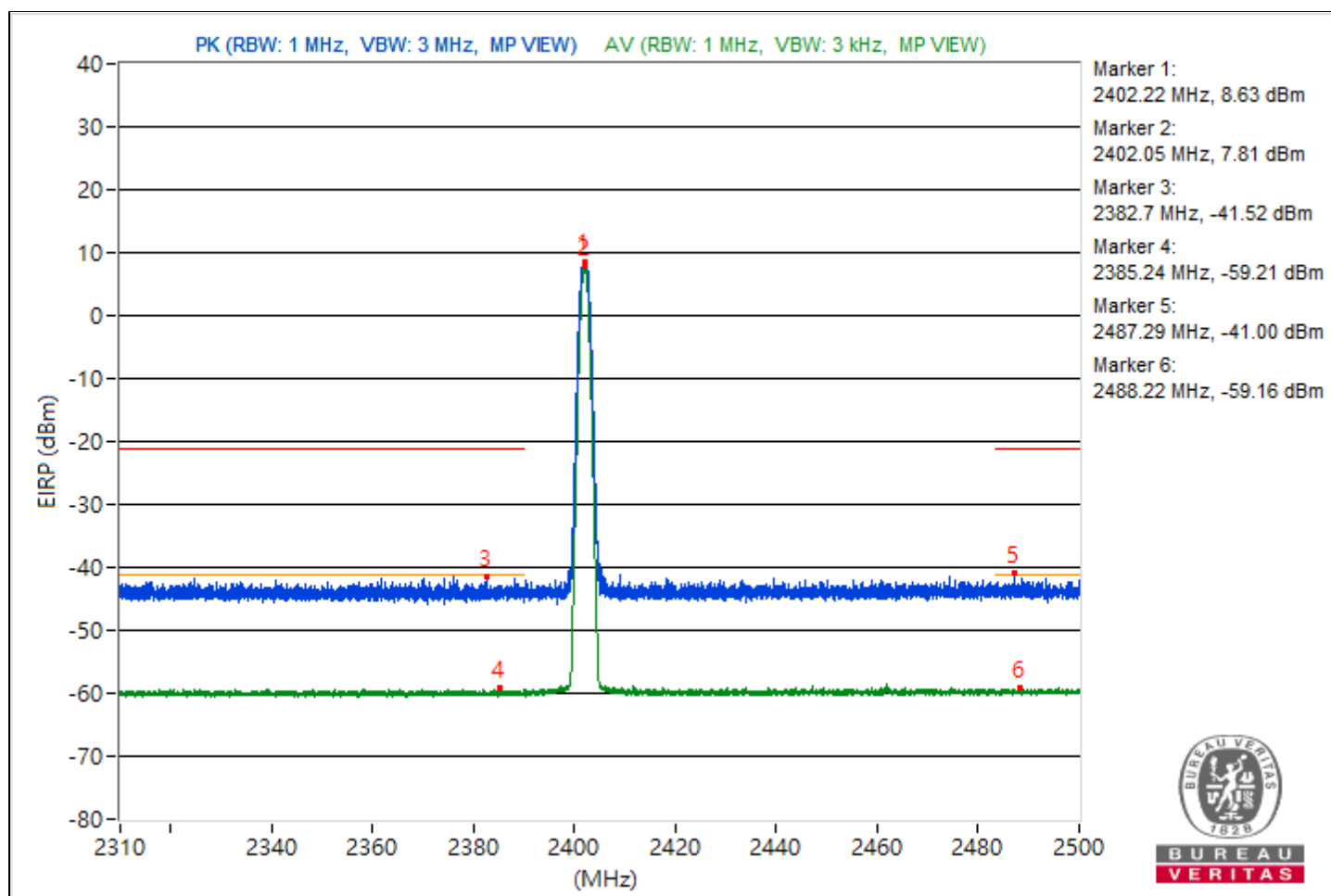
Band Edges

RF Mode	BT-LE 1M	Channel	CH 0 : 2402 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2402.22	103.89 PK			6.63	2	8.63
2	*2402.05	103.07 AV			5.81	2	7.81
3	2382.7	53.74 PK	74	-20.26	-43.52	2	-41.52
4	2385.24	36.05 AV	54	-17.95	-61.21	2	-59.21
5	2487.29	54.26 PK	74	-19.74	-43	2	-41
6	2488.22	36.1 AV	54	-17.9	-61.16	2	-59.16

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

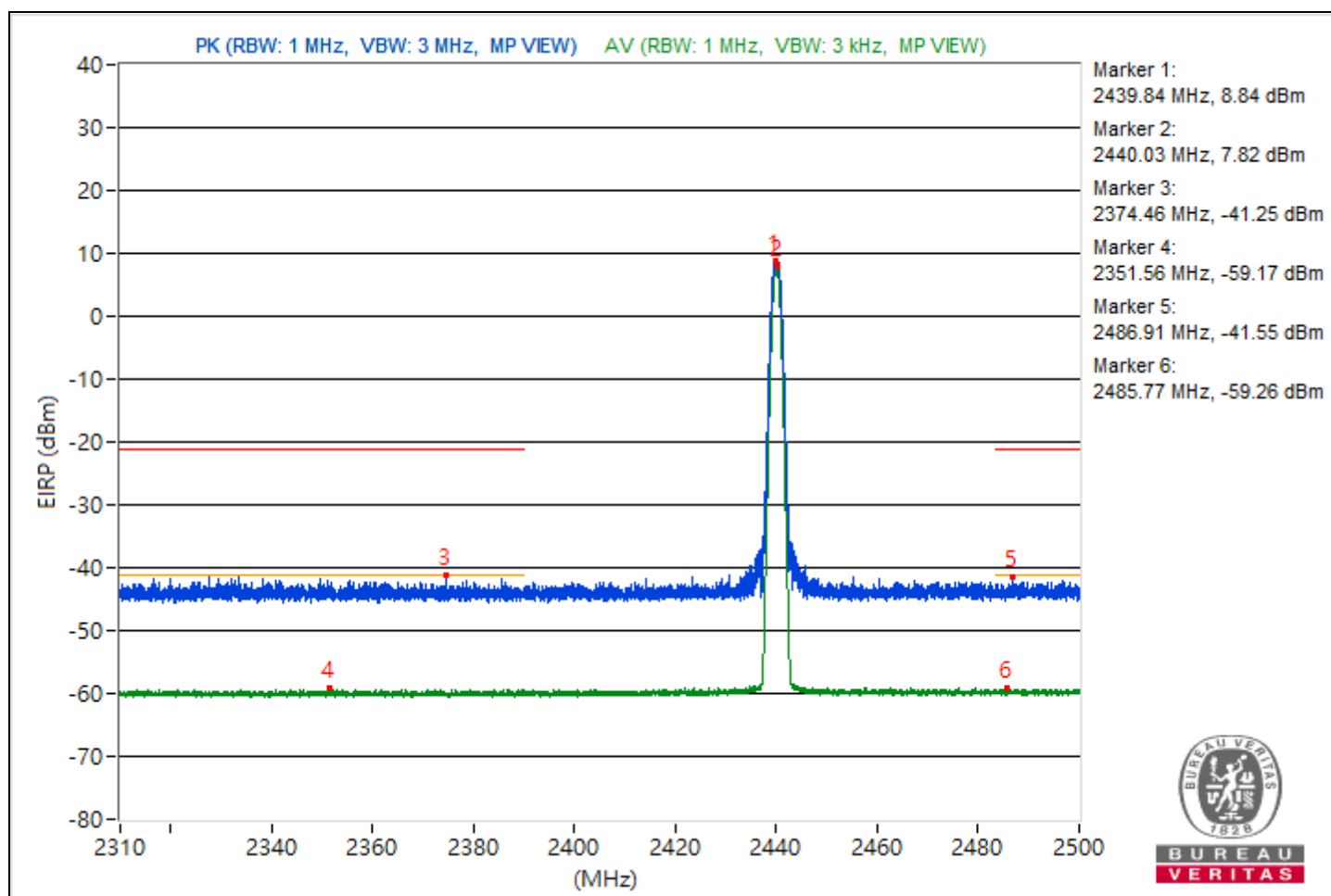


RF Mode	BT-LE 1M	Channel	CH 19 : 2440 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2439.84	104.1 PK			6.84	2	8.84
2	*2440.03	103.08 AV			5.82	2	7.82
3	2374.46	54.01 PK	74	-19.99	-43.25	2	-41.25
4	2351.56	36.09 AV	54	-17.91	-61.17	2	-59.17
5	2486.91	53.71 PK	74	-20.29	-43.55	2	-41.55
6	2485.77	36 AV	54	-18	-61.26	2	-59.26

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

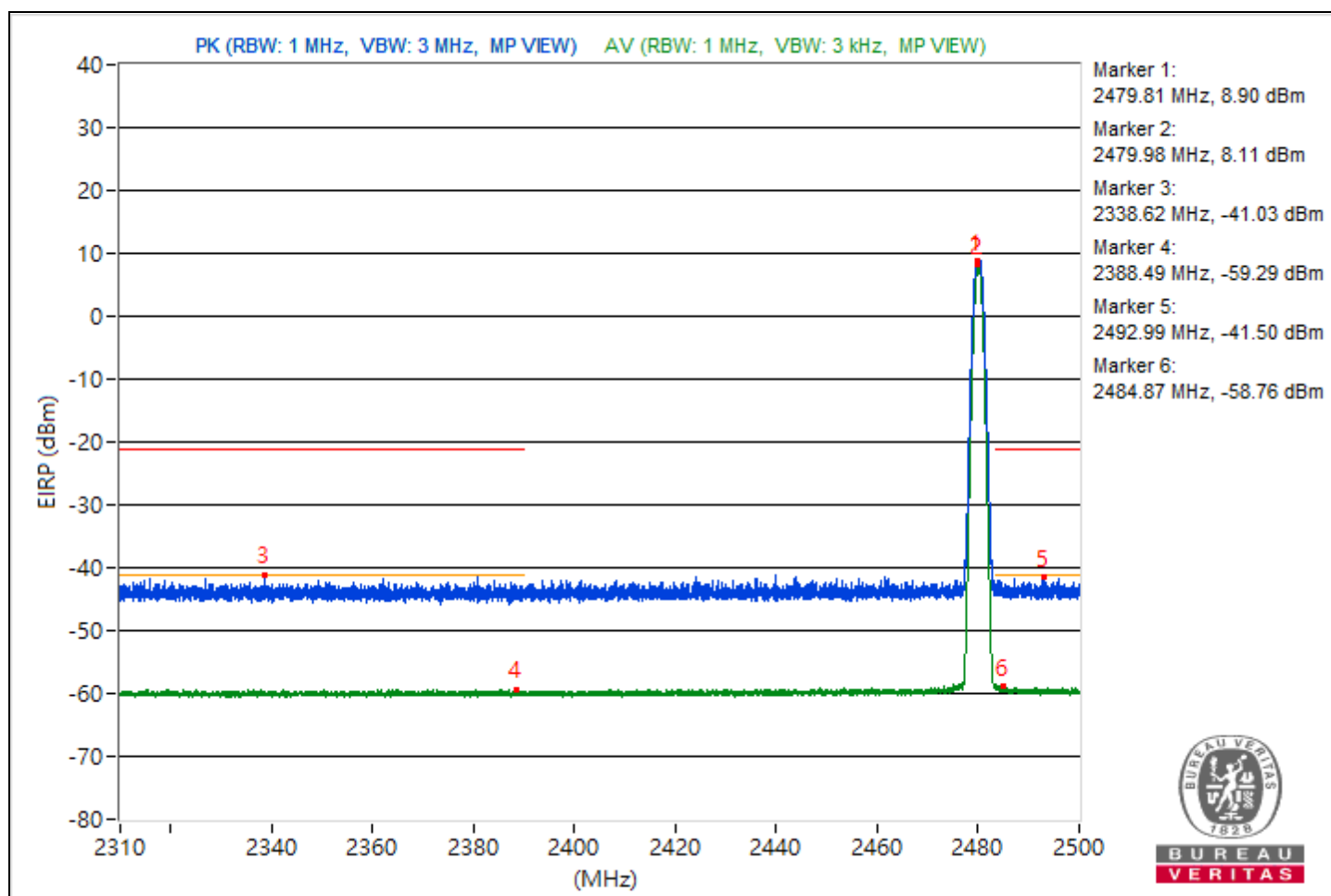


RF Mode	BT-LE 1M	Channel	CH 39 : 2480 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2479.81	104.16 PK			6.9	2	8.9
2	*2479.98	103.37 AV			6.11	2	8.11
3	2338.62	54.23 PK	74	-19.77	-43.03	2	-41.03
4	2388.49	35.97 AV	54	-18.03	-61.29	2	-59.29
5	2492.99	53.76 PK	74	-20.24	-43.5	2	-41.5
6	2484.87	36.5 AV	54	-17.5	-60.76	2	-58.76

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

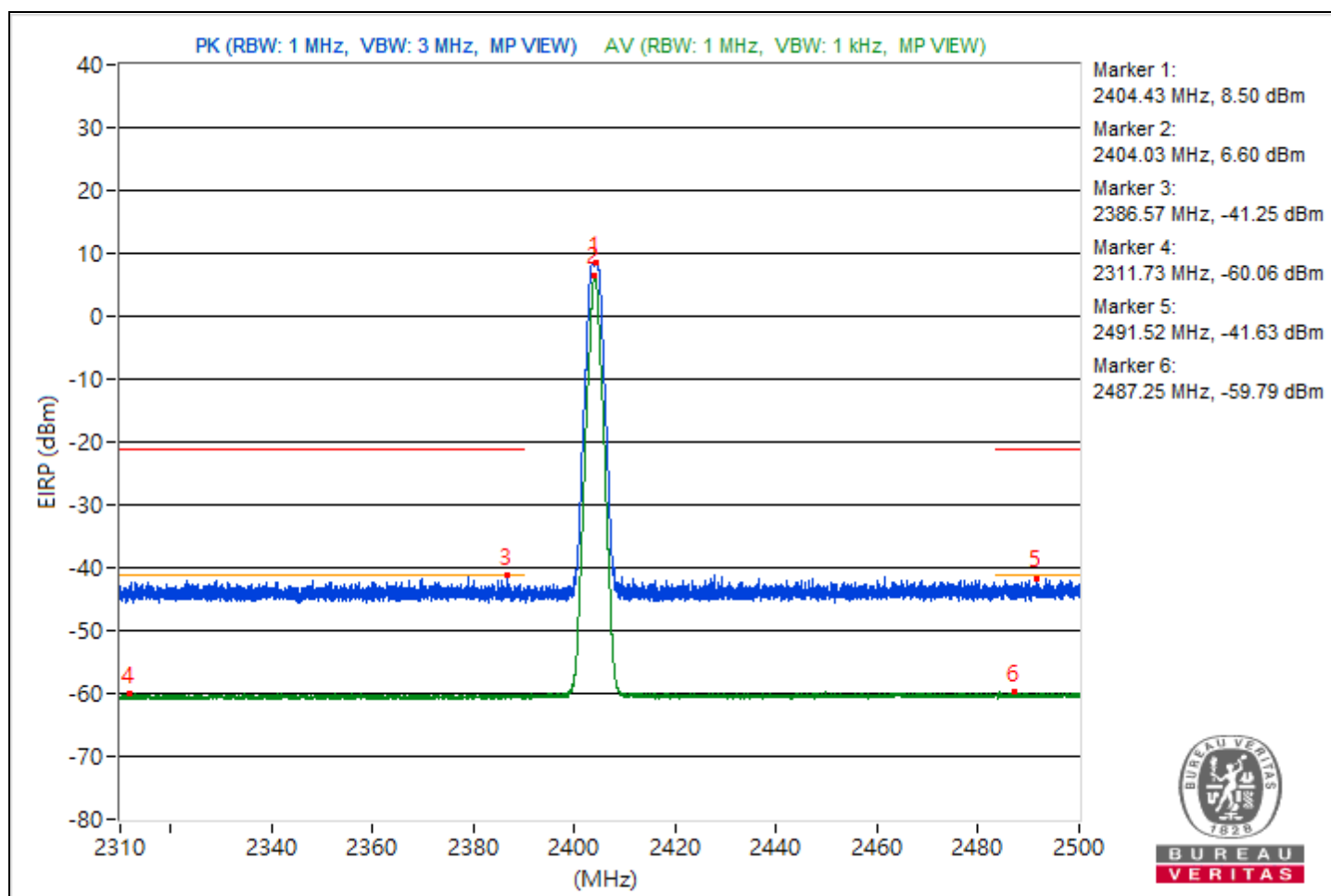


RF Mode	BT-LE 2M	Channel	CH 1 : 2404 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2404.43	103.76 PK			6.5	2	8.5
2	*2404.03	101.86 AV			4.6	2	6.6
3	2386.57	54.01 PK	74	-19.99	-43.25	2	-41.25
4	2311.73	35.2 AV	54	-18.8	-62.06	2	-60.06
5	2491.52	53.63 PK	74	-20.37	-43.63	2	-41.63
6	2487.25	35.47 AV	54	-18.53	-61.79	2	-59.79

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

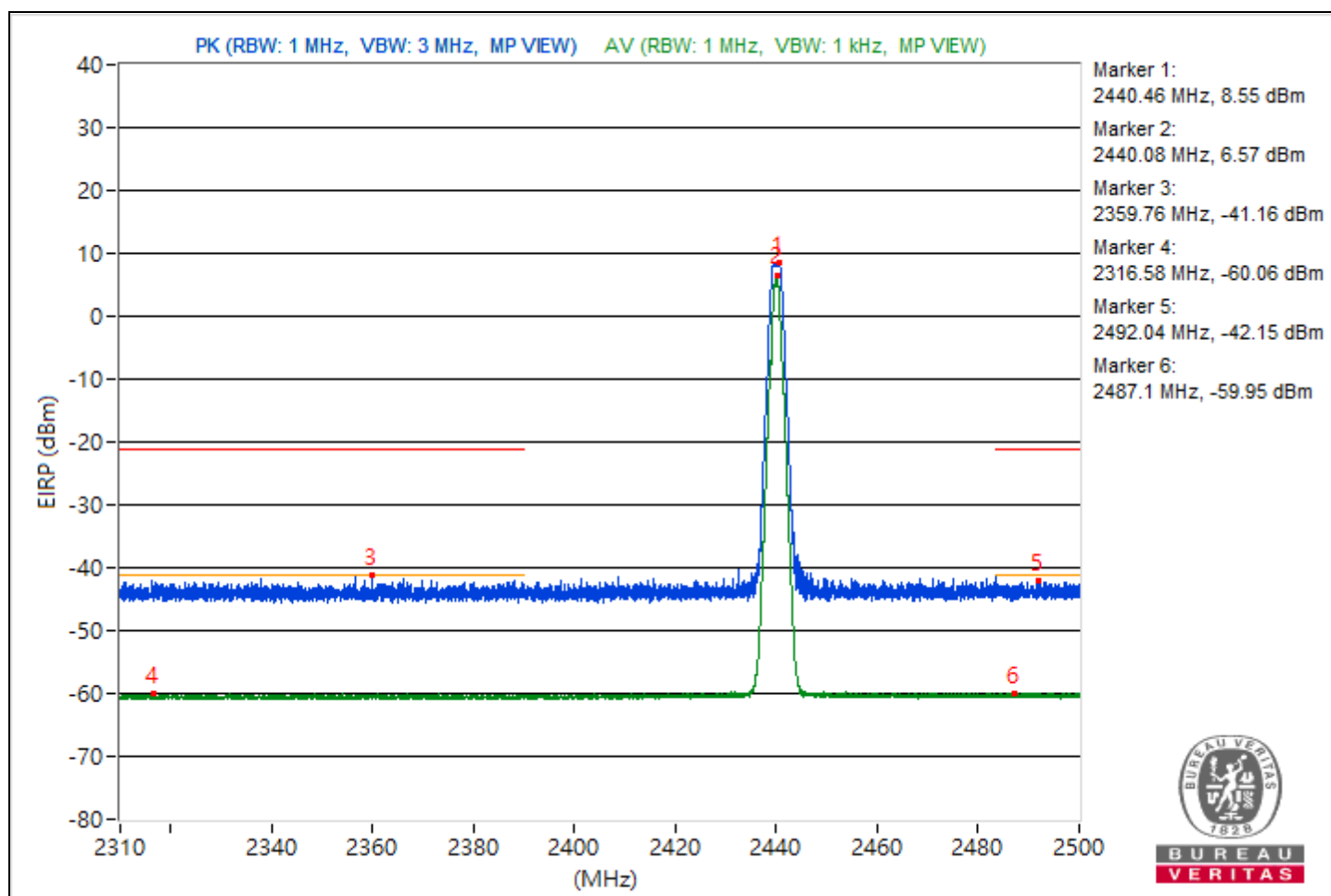


RF Mode	BT-LE 2M	Channel	CH 19 : 2440 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2440.46	103.81 PK			6.55	2	8.55
2	*2440.08	101.83 AV			4.57	2	6.57
3	2359.76	54.1 PK	74	-19.9	-43.16	2	-41.16
4	2316.58	35.2 AV	54	-18.8	-62.06	2	-60.06
5	2492.04	53.11 PK	74	-20.89	-44.15	2	-42.15
6	2487.1	35.31 AV	54	-18.69	-61.95	2	-59.95

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

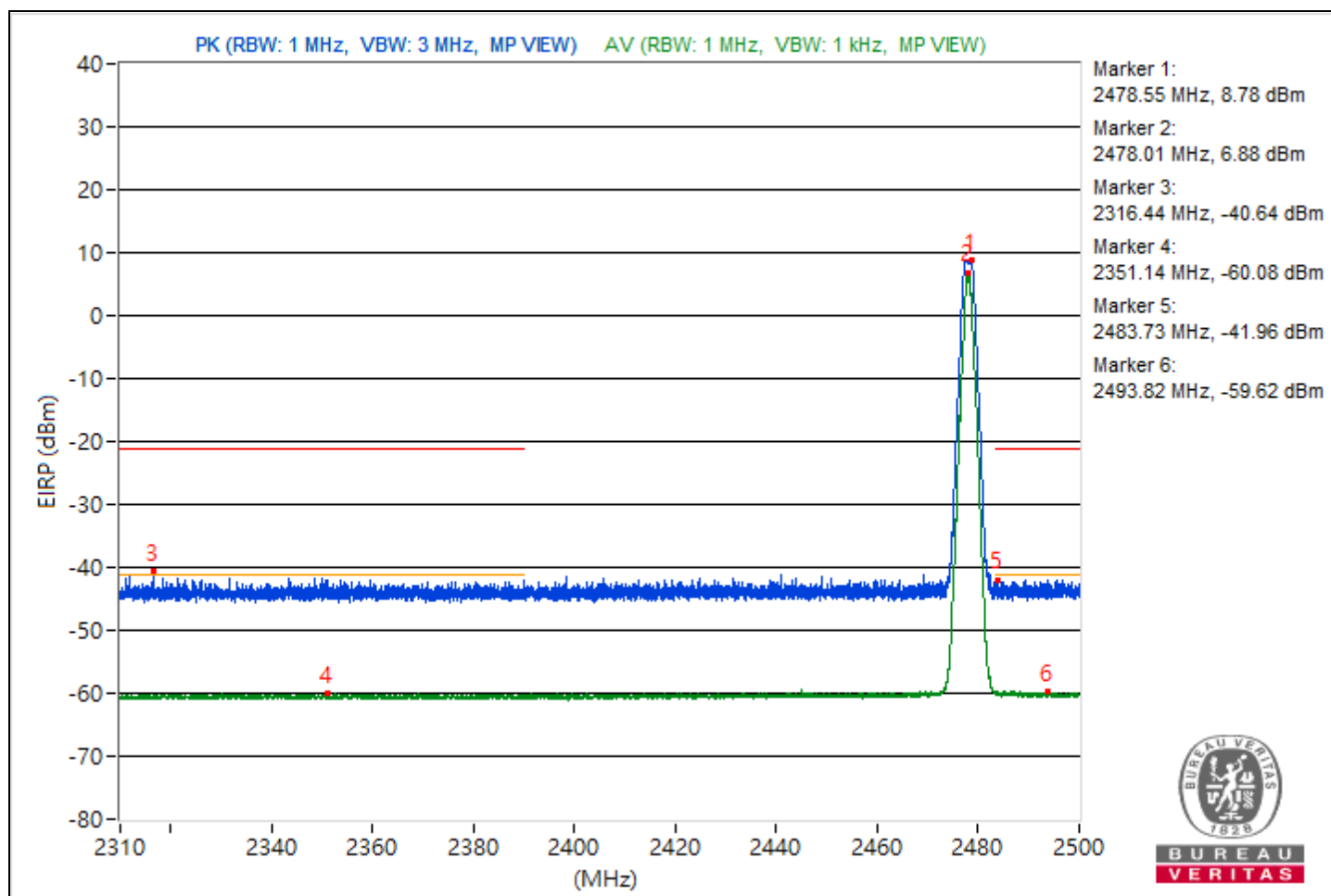


RF Mode	BT-LE 2M	Channel	CH 38 : 2478 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	#2478.55	104.04 PK			6.78	2	8.78
2	*2478.01	102.14 AV			4.88	2	6.88
3	2316.44	54.62 PK	74	-19.38	-42.64	2	-40.64
4	2351.14	35.18 AV	54	-18.82	-62.08	2	-60.08
5	2483.73	53.3 PK	74	-20.7	-43.96	2	-41.96
6	2493.82	35.64 AV	54	-18.36	-61.62	2	-59.62

Notes:

1. Margin value = Emission Level - Limit value
2. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
3. " # ": The radiated frequency is out of the restricted band, the limit was restricted at the Conducted Out of Band Emissions.

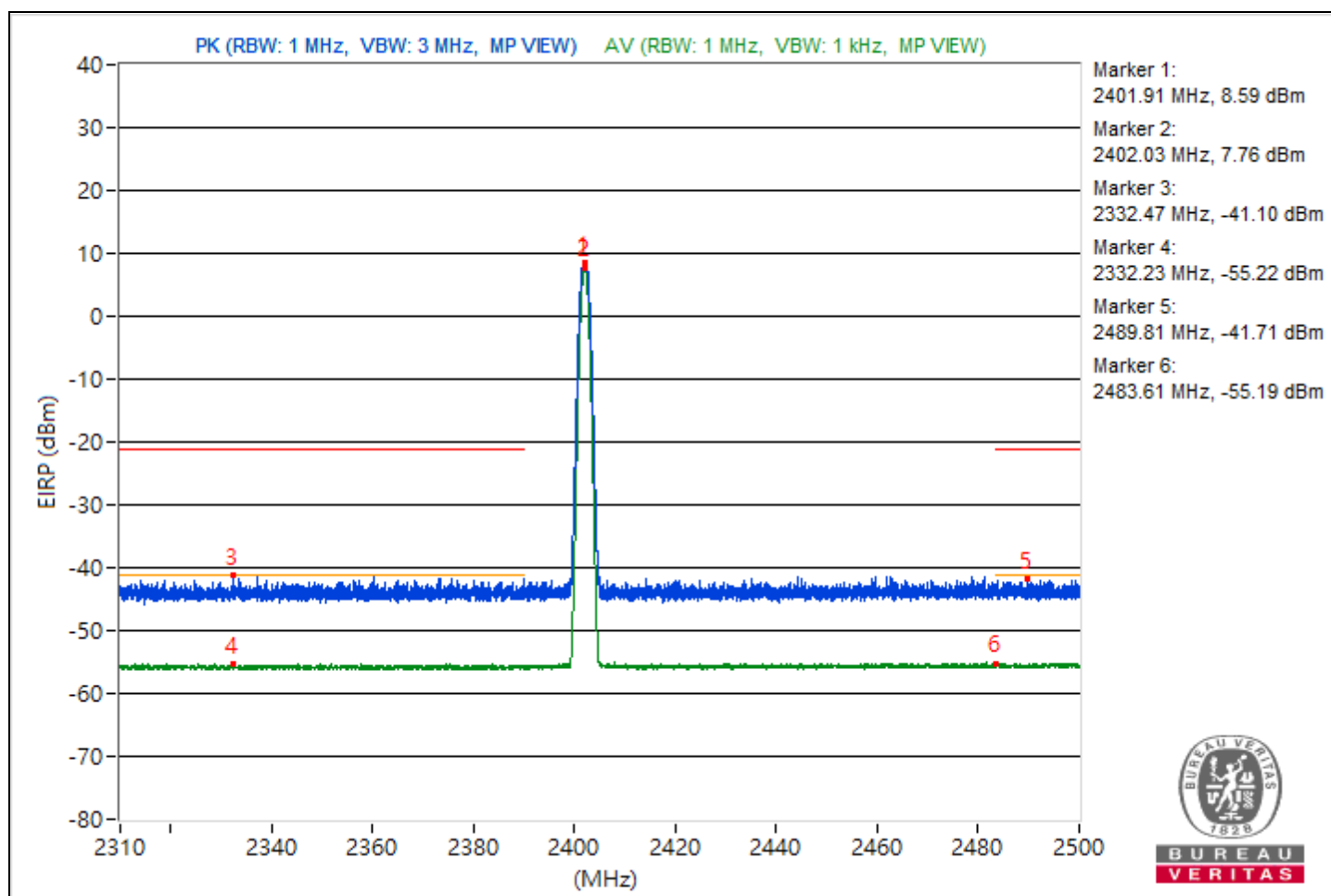


RF Mode	BT-LE 125k	Channel	CH 0 : 2402 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2401.91	103.85 PK			6.59	2	8.59
2	*2402.03	103.02 AV			5.76	2	7.76
3	2332.47	54.16 PK	74	-19.84	-43.1	2	-41.1
4	2332.23	40.04 AV	54	-13.96	-57.22	2	-55.22
5	2489.81	53.55 PK	74	-20.45	-43.71	2	-41.71
6	2483.61	40.07 AV	54	-13.93	-57.19	2	-55.19

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

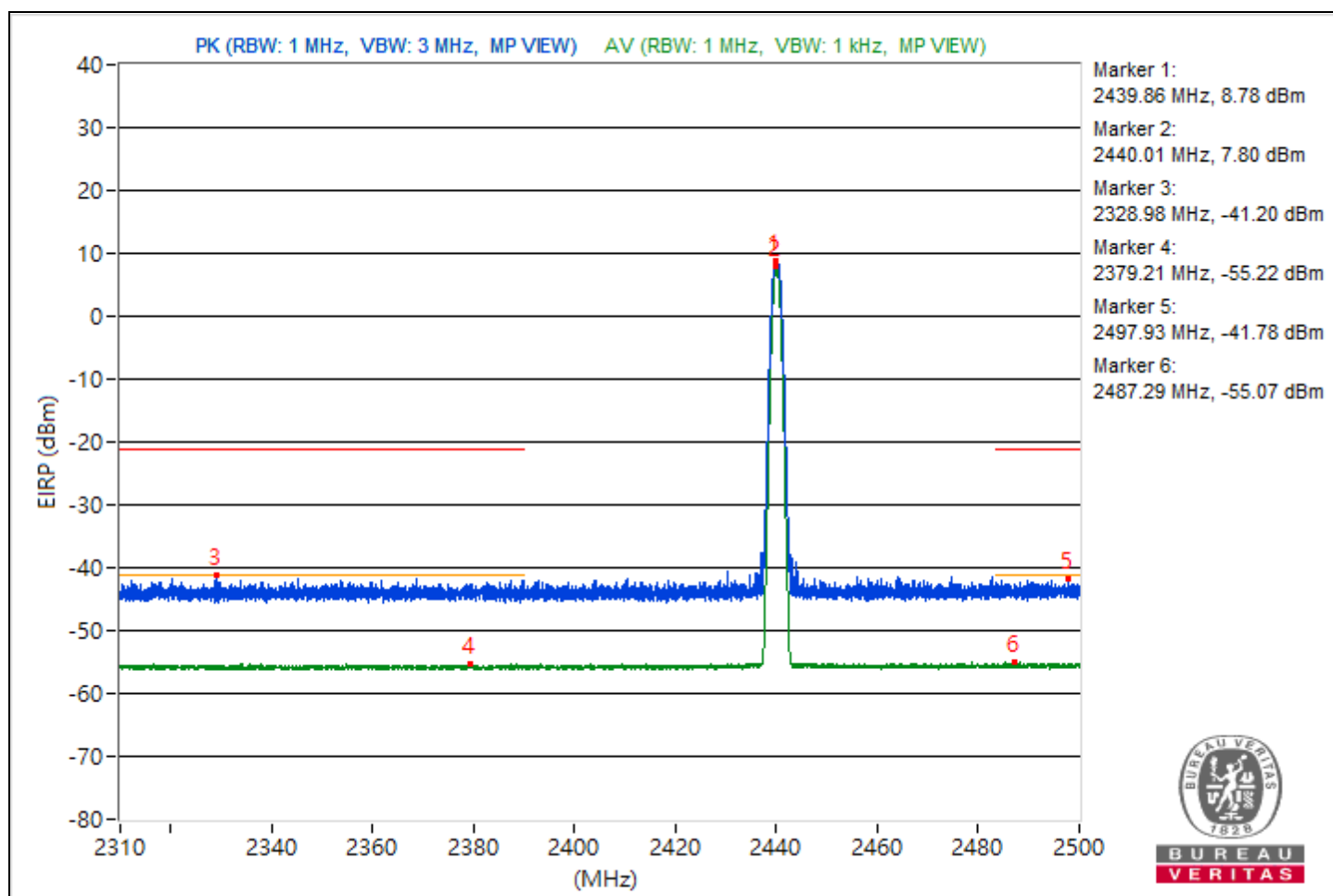


RF Mode	BT-LE 125k	Channel	CH 19 : 2440 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2439.86	104.04 PK			6.78	2	8.78
2	*2440.01	103.06 AV			5.8	2	7.8
3	2328.98	54.06 PK	74	-19.94	-43.2	2	-41.2
4	2379.21	40.04 AV	54	-13.96	-57.22	2	-55.22
5	2497.93	53.48 PK	74	-20.52	-43.78	2	-41.78
6	2487.29	40.19 AV	54	-13.81	-57.07	2	-55.07

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

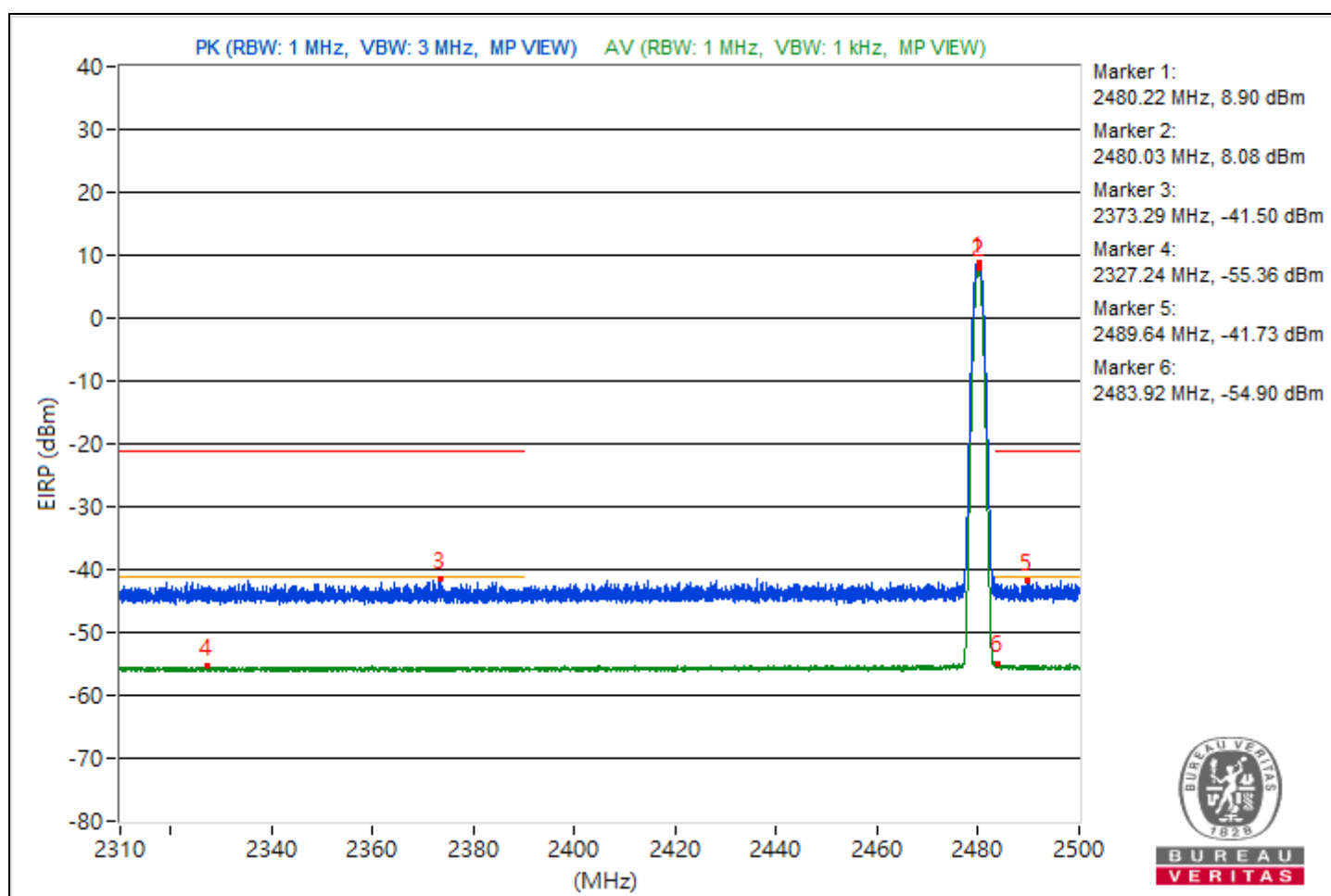


RF Mode	BT-LE 125k	Channel	CH 39 : 2480 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2480.22	104.16 PK			6.9	2	8.9
2	*2480.03	103.34 AV			6.08	2	8.08
3	2373.29	53.76 PK	74	-20.24	-43.5	2	-41.5
4	2327.24	39.9 AV	54	-14.1	-57.36	2	-55.36
5	2489.64	53.53 PK	74	-20.47	-43.73	2	-41.73
6	2483.92	40.36 AV	54	-13.64	-56.9	2	-54.9

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

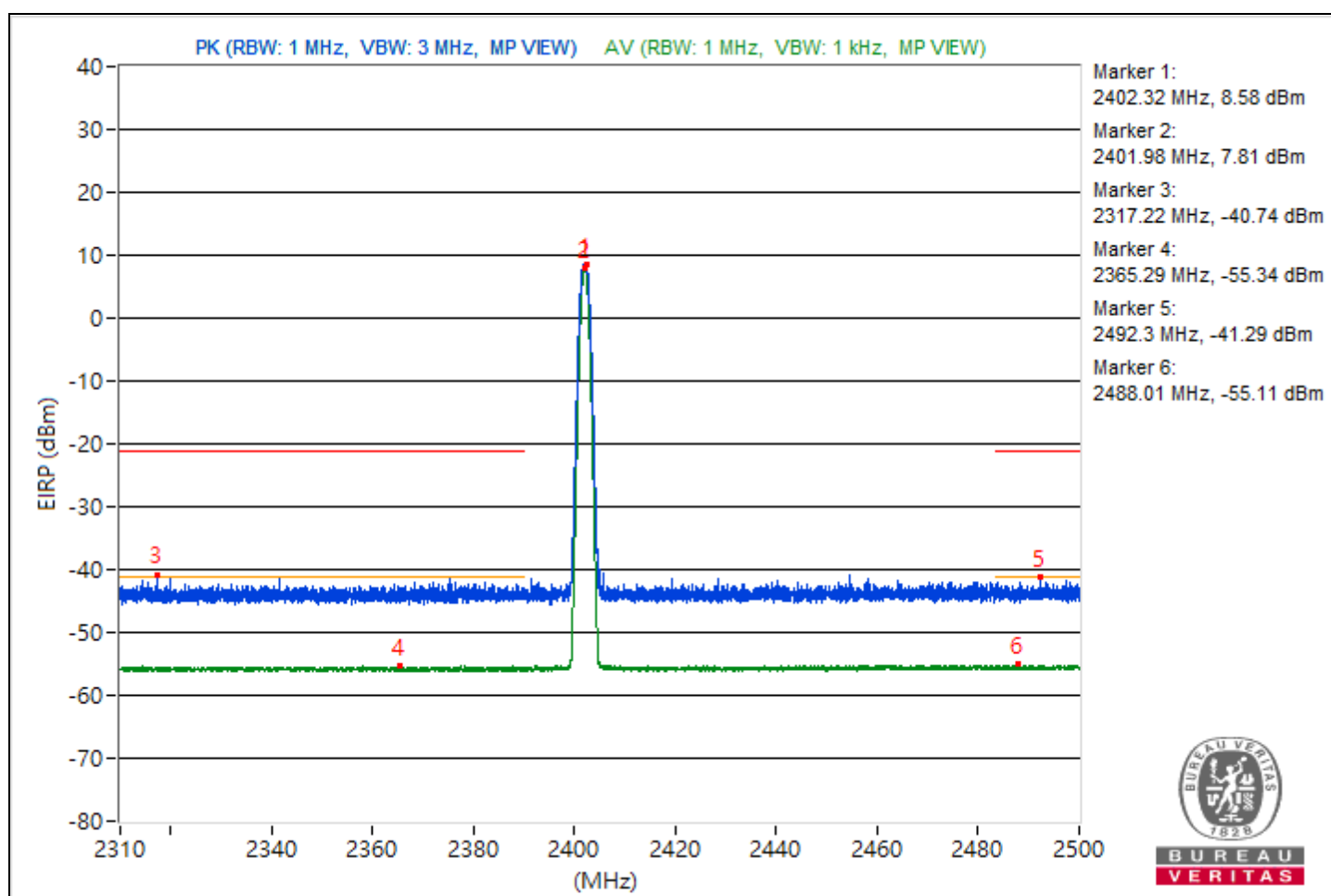


RF Mode	BT-LE 500k	Channel	CH 0 : 2402 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2402.32	103.84 PK			6.58	2	8.58
2	*2401.98	103.07 AV			5.81	2	7.81
3	2317.22	54.52 PK	74	-19.48	-42.74	2	-40.74
4	2365.29	39.92 AV	54	-14.08	-57.34	2	-55.34
5	2492.3	53.97 PK	74	-20.03	-43.29	2	-41.29
6	2488.01	40.15 AV	54	-13.85	-57.11	2	-55.11

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

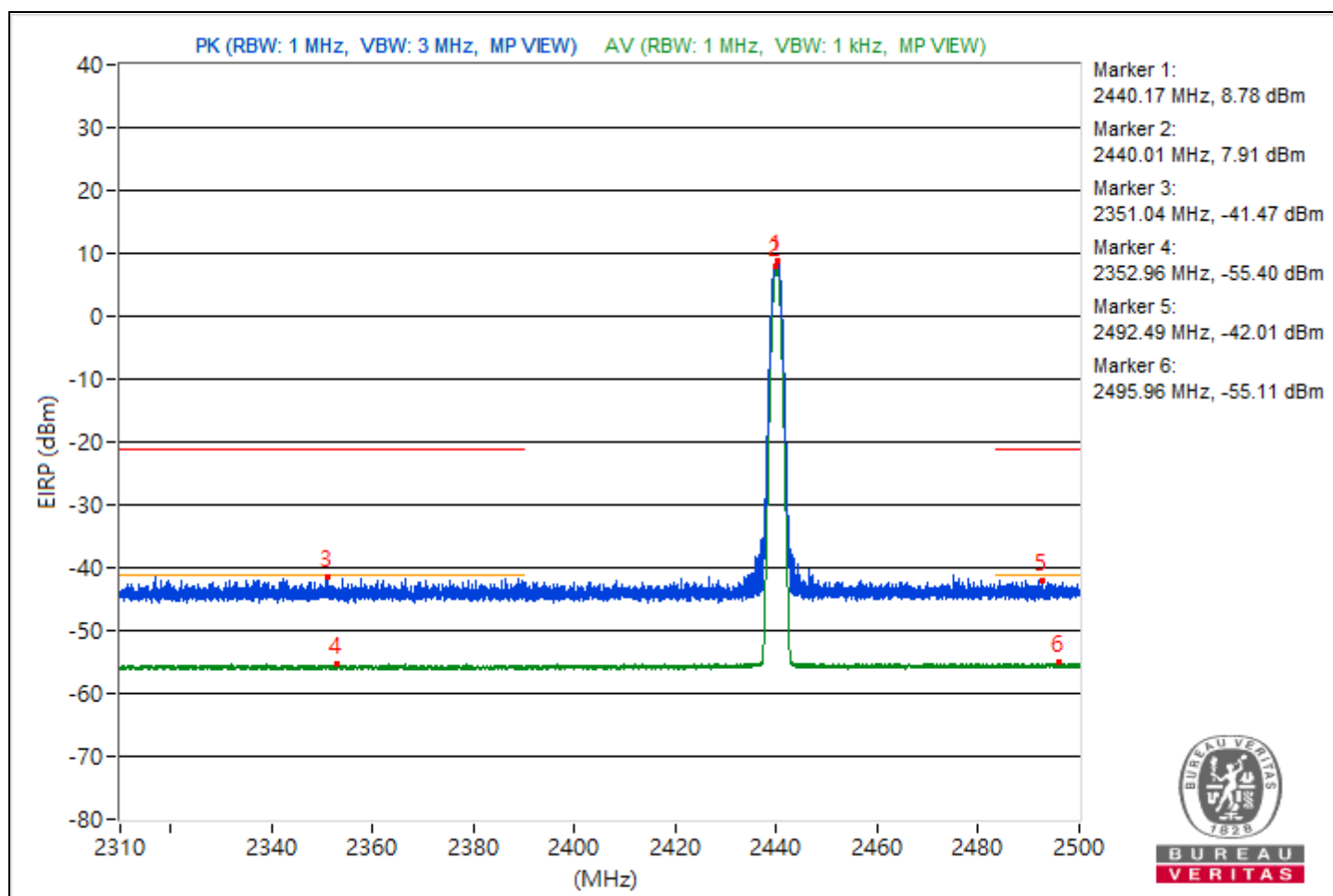


RF Mode	BT-LE 500k	Channel	CH 19 : 2440 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2440.17	104.04 PK			6.78	2	8.78
2	*2440.01	103.17 AV			5.91	2	7.91
3	2351.04	53.79 PK	74	-20.21	-43.47	2	-41.47
4	2352.96	39.86 AV	54	-14.14	-57.4	2	-55.4
5	2492.49	53.25 PK	74	-20.75	-44.01	2	-42.01
6	2495.96	40.15 AV	54	-13.85	-57.11	2	-55.11

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

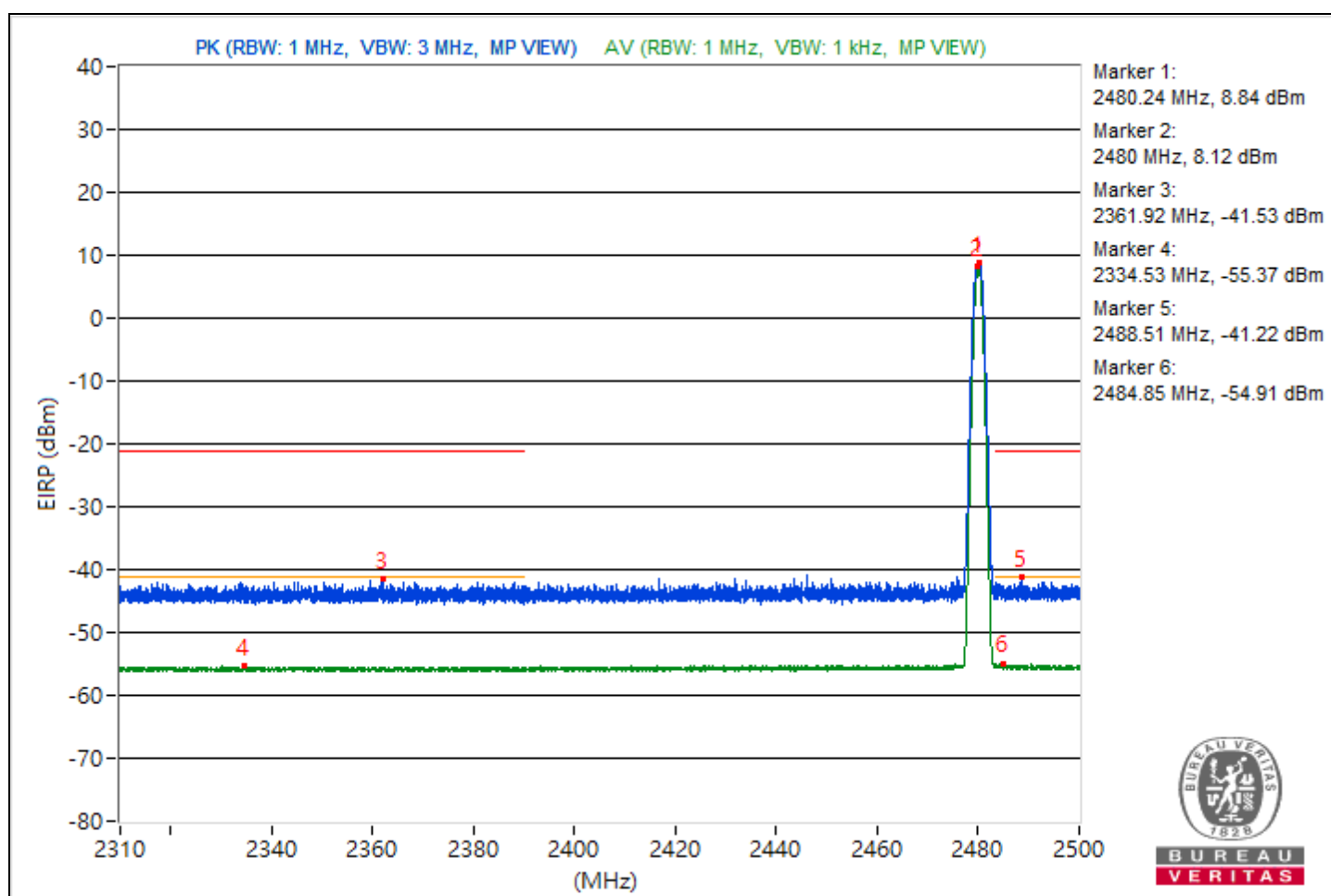


RF Mode	BT-LE 500k	Channel	CH 39 : 2480 MHz
Frequency Range	2.31 GHz ~ 2.5 GHz	Input Power	120 Vac, 60 Hz
Environmental Conditions	23°C, 61% RH	Tested By	Gary Lin

Conducted Band Edge							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2480.24	104.1 PK			6.84	2	8.84
2	*2480	103.38 AV			6.12	2	8.12
3	2361.92	53.73 PK	74	-20.27	-43.53	2	-41.53
4	2334.53	39.89 AV	54	-14.11	-57.37	2	-55.37
5	2488.51	54.04 PK	74	-19.96	-43.22	2	-41.22
6	2484.85	40.35 AV	54	-13.65	-56.91	2	-54.91

Notes:

1. Margin value = Emission Level - Limit value
2. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



Mode B

RF Mode	BT LE-1M	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 66% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4804.00	48.9 PK	74.0	-25.1	1.25 H	255	39.7	9.2
2	4804.00	36.9 AV	54.0	-17.1	1.25 H	255	27.7	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4804.00	48.7 PK	74.0	-25.3	1.65 V	325	39.5	9.2
2	4804.00	36.7 AV	54.0	-17.3	1.65 V	325	27.5	9.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

RF Mode	BT LE-1M	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 66% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4880.00	47.9 PK	74.0	-26.1	1.35 H	245	38.5	9.4
2	4880.00	37.2 AV	54.0	-16.8	1.35 H	245	27.8	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4880.00	47.7 PK	74.0	-26.3	1.66 V	318	38.3	9.4
2	4880.00	37.0 AV	54.0	-17.0	1.66 V	318	27.6	9.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

RF Mode	BT LE-1M	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 66% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4960.00	48.7 PK	74.0	-25.3	1.35 H	275	38.7	10.0
2	4960.00	38.1 AV	54.0	-15.9	1.35 H	275	28.1	10.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4960.00	48.5 PK	74.0	-25.5	1.55 V	313	38.5	10.0
2	4960.00	37.9 AV	54.0	-16.1	1.55 V	313	27.9	10.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

RF Mode	BT LE-2M	Channel	CH 1 : 2404 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 66% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4808.00	49.0 PK	74.0	-25.0	1.26 H	256	39.8	9.2
2	4808.00	38.0 AV	54.0	-16.0	1.26 H	256	28.8	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4808.00	48.9 PK	74.0	-25.1	1.66 V	326	39.7	9.2
2	4808.00	37.8 AV	54.0	-16.2	1.66 V	326	28.6	9.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

RF Mode	BT LE-2M	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 66% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4880.00	48.0 PK	74.0	-26.0	1.36 H	246	38.6	9.4
2	4880.00	37.1 AV	54.0	-16.9	1.36 H	246	27.7	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4880.00	47.8 PK	74.0	-26.2	1.65 V	320	38.4	9.4
2	4880.00	36.9 AV	54.0	-17.1	1.65 V	320	27.5	9.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

RF Mode	BT LE-2M	Channel	CH 38 : 2478 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 66% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4956.00	48.5 PK	74.0	-25.5	1.40 H	250	38.5	10.0
2	4956.00	37.7 AV	54.0	-16.3	1.40 H	250	27.7	10.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4956.00	48.3 PK	74.0	-25.7	1.65 V	315	38.3	10.0
2	4956.00	37.5 AV	54.0	-16.5	1.65 V	315	27.5	10.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

RF Mode	BT LE-125K	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 66% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4804.00	48.9 PK	74.0	-25.1	1.20 H	250	39.7	9.2
2	4804.00	37.0 AV	54.0	-17.0	1.20 H	250	27.8	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4804.00	48.7 PK	74.0	-25.3	1.60 V	320	39.5	9.2
2	4804.00	36.8 AV	54.0	-17.2	1.60 V	320	27.6	9.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

RF Mode	BT LE-125K	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 66% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4880.00	48.0 PK	74.0	-26.0	1.35 H	246	38.6	9.4
2	4880.00	37.3 AV	54.0	-16.7	1.35 H	246	27.9	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4880.00	47.8 PK	74.0	-26.2	1.60 V	315	38.4	9.4
2	4880.00	37.3 AV	54.0	-16.7	1.60 V	315	27.9	9.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

RF Mode	BT LE-125K	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 66% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4960.00	48.9 PK	74.0	-25.1	1.30 H	260	38.9	10.0
2	4960.00	38.1 AV	54.0	-15.9	1.30 H	260	28.1	10.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4960.00	48.7 PK	74.0	-25.3	1.61 V	313	38.7	10.0
2	4960.00	37.9 AV	54.0	-16.1	1.61 V	313	27.9	10.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

RF Mode	BT LE-500K	Channel	CH 0 : 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 66% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4804.00	49.0 PK	74.0	-25.0	1.22 H	250	39.8	9.2
2	4804.00	37.1 AV	54.0	-16.9	1.22 H	250	27.9	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4804.00	48.9 PK	74.0	-25.1	1.62 V	322	39.7	9.2
2	4804.00	36.9 AV	54.0	-17.1	1.62 V	322	27.7	9.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

RF Mode	BT LE-500K	Channel	CH 19 : 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 66% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4880.00	48.0 PK	74.0	-26.0	1.37 H	248	38.6	9.4
2	4880.00	37.3 AV	54.0	-16.7	1.37 H	248	27.9	9.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4880.00	47.8 PK	74.0	-26.2	1.62 V	317	38.4	9.4
2	4880.00	37.1 AV	54.0	-16.9	1.62 V	317	27.7	9.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

RF Mode	BT LE-500K	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 66% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4960.00	48.8 PK	74.0	-25.2	1.32 H	266	38.8	10.0
2	4960.00	38.0 AV	54.0	-16.0	1.32 H	266	28.0	10.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4960.00	48.6 PK	74.0	-25.4	1.58 V	315	38.6	10.0
2	4960.00	37.8 AV	54.0	-16.2	1.58 V	315	27.8	10.0

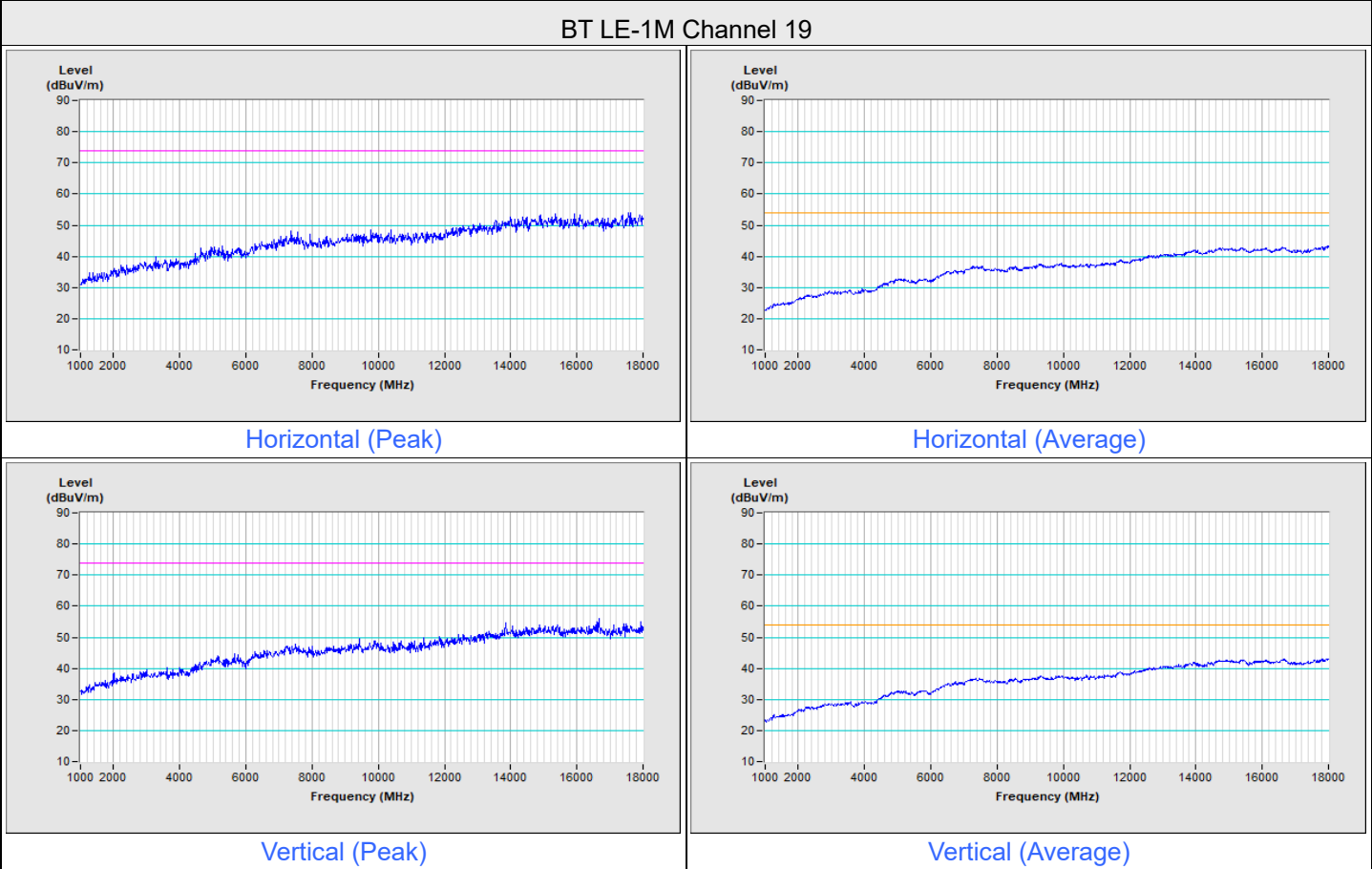
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

Plot of Other Emission

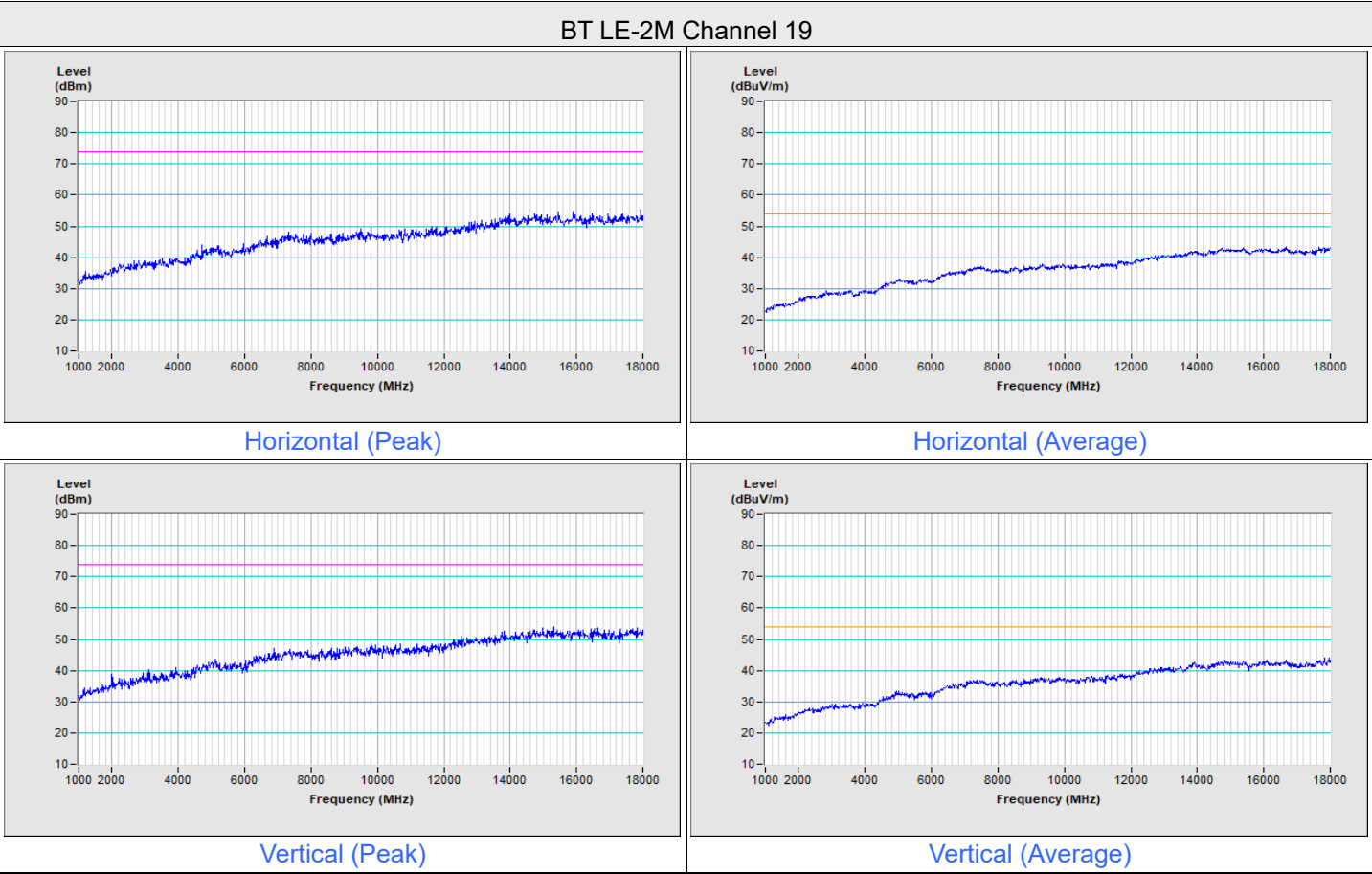
Mode B

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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- Notes:
- For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
 - The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

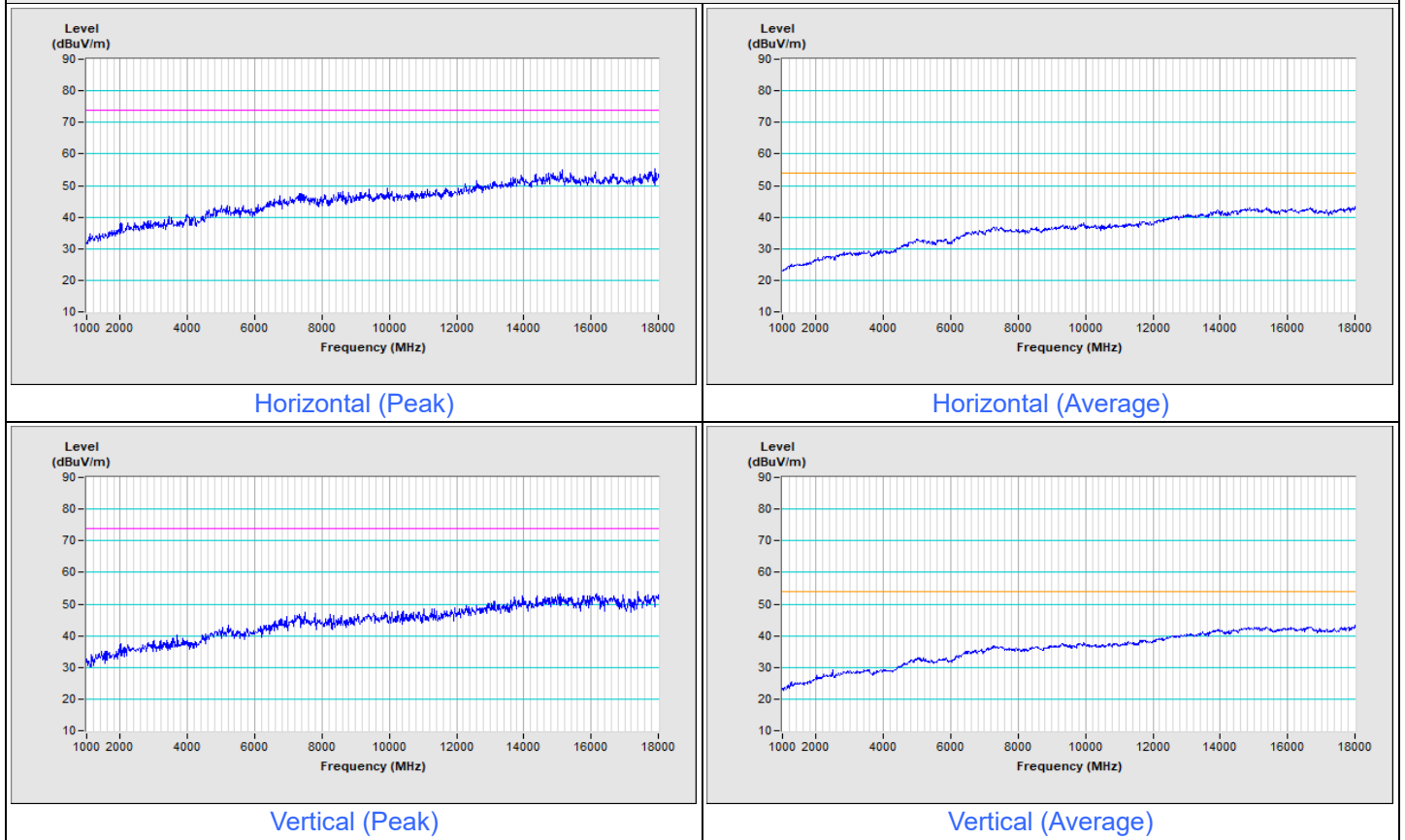
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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- Notes:
1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
 2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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BT LE-125K Channel 19

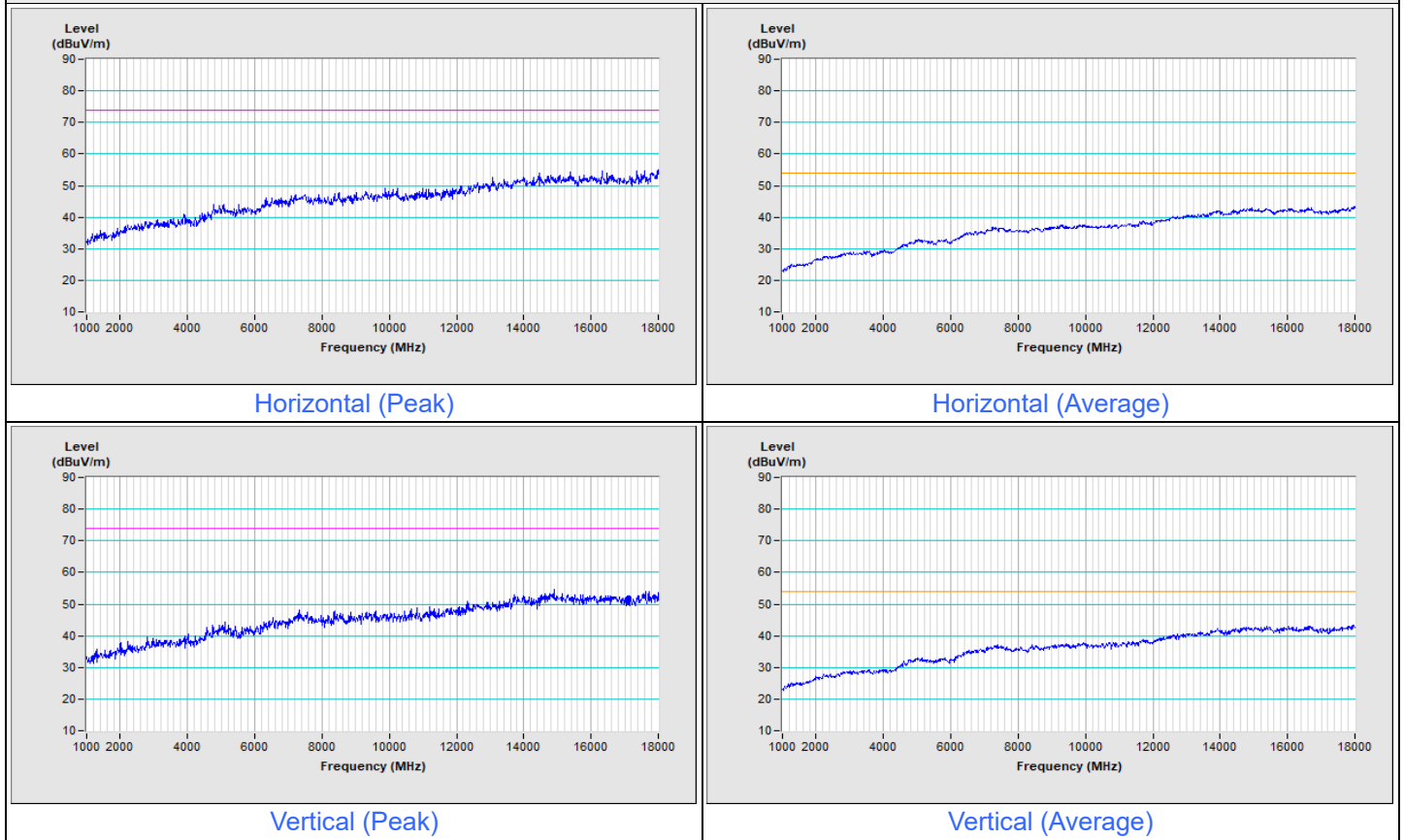


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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BT LE-500K Channel 19



Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 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 FCC recognized accredited test firms and accredited 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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