

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
47 CFR FCC Part 15, Subpart E (Section 15.407)

Report No.: RFBARR-WTW-P26020165-8

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: 2026/8/18

Issued Date: 2026/8/21

Applicant: MediaTek Inc.

Address: No. 1, Dusing 1st Rd., Hsinchu Science Park, Hsinchu City, 30078 Taiwan

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

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

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

FCC Registration / 723255 / TW2022

Designation Number:

Approved by: _____, **Date:** 2026/8/21
May Chen / Manager

This test report consists of 82 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The test results in the report only apply to the tested sample. The test results in this report are traceable to the national or international standards.

Prepared by : Claire Kuan / Specialist



This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/>, and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Table of Contents

Release Control Record	3
1 Certificate.....	4
2 Summary of Test Results	5
2.1 Measurement Uncertainty	5
2.2 Supplementary Information	5
3 General Information	6
3.1 General Description of EUT	6
3.2 Antenna Description of EUT	8
3.3 Test Mode Applicability and Tested Channel Detail.....	9
3.4 Test Program Used and Operation Descriptions	12
3.5 Connection Diagram of EUT and Peripheral Devices	12
3.6 Configuration of Peripheral Devices and Cable Connections	12
4 Test Instruments	13
4.1 Unwanted Emissions below 1 GHz	13
4.2 Unwanted Emissions above 1 GHz.....	13
4.3 Conducted Out of Band Emissions	14
5 Limits of Test Items.....	15
5.1 Unwanted Emissions below 1 GHz	15
5.2 Unwanted Emissions above 1 GHz.....	15
5.3 Conducted Out of Band Emissions	16
6 Test Arrangements.....	17
6.1 Unwanted Emissions below 1 GHz	17
6.1.1 Test Setup	17
6.1.2 Test Procedure	18
6.2 Unwanted Emissions above 1 GHz.....	20
6.2.1 Test Setup	20
6.2.2 Test Procedure	21
6.3 Conducted Out of Band Emissions	23
6.3.1 Test Setup	23
6.3.2 Test Procedure	23
7 Test Results of Test Item	24
7.1 Unwanted Emissions below 1 GHz	24
7.2 Unwanted Emissions above 1 GHz.....	48
7.3 Conducted Out of Band Emissions	78
8 Pictures of Test Arrangements	81
9 Information of the Testing Laboratories	82

Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P26020165-8	Original release.	2026/8/21

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: 2026/8/18

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement procedure: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024

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

Standard / Clause	Test Item	Result	Remark
15.205 /15.209 /15.247(d) 15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Meet the requirement of limit.
15.205 /15.209 /15.247(d) 15.407(b)(1/2/3/4(i)/1 0) 15.407(b)(6/10)	Unwanted Emissions above 1 GHz	Pass	Meet the requirement of limit.
15.247(d)	Conducted Out of Band Emissions	Pass	Meet the requirement of limit.

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	Uncertainty (±)
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.6 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.1 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 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 of EUT

Product	2TX 11be (WiFi7) BW160+BT/BLE Combo Card	
Brand	MediaTek	
Test Model	MT7928C14L	
Modulation Technology	BT-EDR	FHSS
	BT-LE	DSSS
	WLAN	DSSS, OFDM, OFDMA
Operating Frequency	BT	2.402 ~ 2.480 GHz
	WLAN	2.4 GHz: 2.412 ~ 2.472 GHz 5 GHz: 5.18 GHz ~ 5.25 GHz 5.25 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz 5.9 GHz: 5.815 GHz ~ 5.885 GHz 6 GHz: 5.935 GHz ~ 6.415 GHz 6.435 GHz ~ 6.525 GHz 6.535 GHz ~ 6.865 GHz 6.875 GHz ~ 7.115 GHz

Note:

1. There are Bluetooth and WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.
2. Simultaneously transmission combination.

Combination	Technology	
1	WLAN (2.4 GHz)(WIFI1)	WLAN (5 GHz)(WIFI0)
2	WLAN (2.4 GHz)(WIFI1)	WLAN (5.9 GHz)(WIFI0)
3	WLAN (2.4 GHz)(WIFI1)	WLAN (6 GHz)(WIFI0)
4	BT(BT0)	BT(BT1)
5*	WLAN (2.4 GHz)(2T)	BT (BT0)
6*	WLAN (2.4 GHz)(WIFI0)	BT(BT0) + BT(BT1)
7	WLAN (2.4 GHz)(WIFI0)	BT(BT0)
8	WLAN (2.4 GHz)(WIFI0)	BT(BT1)
9	WLAN (2.4 GHz)(WIFI1)	BT(BT1)
10*	WLAN (5 GHz) (2T)	BT(BT0) + BT(BT1)
11	WLAN (5 GHz) (2T)	BT (1T) <BT0 or BT1>
12	WLAN (5 GHz) (1T)	BT(BT0) + BT(BT1)
13	WLAN (5 GHz) (1T)	BT (1T) <BT0 or BT1>
14*	WLAN (5.9 GHz) (2T)	BT(BT0) + BT(BT1)
15	WLAN (5.9 GHz) (2T)	BT (1T) <BT0 or BT1>
16	WLAN (5.9 GHz) (1T)	BT(BT0) + BT(BT1)
17	WLAN (5.9 GHz) (1T)	BT (1T) <BT0 or BT1>
18*	WLAN (6 GHz) (2T)	BT(BT0) + BT(BT1)
19	WLAN (6 GHz) (2T)	BT (1T) <BT0 or BT1>
20	WLAN (6 GHz) (1T)	BT(BT0) + BT(BT1)
21	WLAN (6 GHz) (1T)	BT (1T) <BT0 or BT1>

Combination	Technology		
22*	WLAN (2.4 GHz)(WIFI1)	WLAN (5 GHz)(WIFI0)	BT(BT1)
23*	WLAN (2.4 GHz)(WIFI1)	WLAN (5.9 GHz)(WIFI0)	BT(BT1)
24*	WLAN (2.4 GHz)(WIFI1)	WLAN (6 GHz)(WIFI0)	BT(BT1)

Note: BT0 and BT1 cannot operate on the same frequency simultaneously.

“ * ”: After evaluation, the condition of simultaneous mode is evaluated and only with the following condition as representative.

- 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.

Ant. No.	RF Chain No.	Brand	Model	Ant. Net Gain (dBi)	Frequency Range (GHz)	Ant. 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 Ipex)	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 Ipex)	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 Ipex)	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 Ipex)	150	0.5 0.8	2.92 4.67

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

3.3 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).
-----------	--

Following channel(s) was (were) selected for the final test as listed below:

Test Item	EUT Configure Mode	Test Mode	Test Standard	Mode	Tested Channel
Unwanted Emissions below 1 GHz	A, B	1	FCC 15.247	802.11b	6
				BT-LE 1M(BT0)	0
		2	FCC 15.247	802.11b	11
				BT-LE 1M(BT0)	0
				BT-LE 1M(BT1)	39
		3	FCC 15.407_WLAN 5G	802.11a	149
			FCC 15.247	BT-LE 1M(BT0)	0
				BT-LE 1M(BT1)	39
		4	FCC 15.407_WLAN 5.9G	802.11be (EHT80) 484+242-tone MRU	171
			FCC 15.247	BT-LE 1M(BT0)	0
				BT-LE 1M(BT1)	39
		5	FCC 15.407_WLAN 6G	802.11be (EHT20)	181
			FCC 15.247	BT-LE 1M(BT0)	0
				BT-LE 1M(BT1)	39
		6	FCC 15.247	802.11b	11
			FCC 15.407_WLAN 5G	802.11a	165
			FCC 15.247	BT-LE 1M(BT1)	39
		7	FCC 15.247	802.11b	11
			FCC 15.407_WLAN 5.9G	802.11be (EHT40)	167
			FCC 15.247	BT-LE 1M(BT1)	39
		8	FCC 15.247	802.11b	11
			FCC 15.407_WLAN 6G	802.11be (EHT20) 106+26-tone MRU	93
			FCC 15.247	BT-LE 1M(BT1)	39

Test Item	EUT Configure Mode	Test Mode	Test Standard	Mode	Tested Channel
Unwanted Emissions above 1 GHz	A, B	1	FCC 15.247	802.11b	6
				BT-LE 1M(BT0)	0
		2	FCC 15.247	802.11b	11
				BT-LE 1M(BT0)	0
				BT-LE 1M(BT1)	39
		3	FCC 15.407_WLAN 5G	802.11a	149
			FCC 15.247	BT-LE 1M(BT0)	0
				BT-LE 1M(BT1)	39
		4	FCC 15.407_WLAN 5.9G	802.11be (EHT80) 484+242-tone MRU	171
			FCC 15.247	BT-LE 1M(BT0)	0
				BT-LE 1M(BT1)	39
		5	FCC 15.407_WLAN 6G	802.11be (EHT20)	181
			FCC 15.247	BT-LE 1M(BT0)	0
				BT-LE 1M(BT1)	39
		6	FCC 15.247	802.11b	11
			FCC 15.407_WLAN 5G	802.11a	165
			FCC 15.247	BT-LE 1M(BT1)	39
		7	FCC 15.247	802.11b	11
			FCC 15.407_WLAN 5.9G	802.11be (EHT40)	167
			FCC 15.247	BT-LE 1M(BT1)	39
		8	FCC 15.247	802.11b	11
			FCC 15.407_WLAN 6G	802.11be (EHT20) 106+26-tone MRU	93
			FCC 15.247	BT-LE 1M(BT1)	39

Test Item	EUT Configure Mode	Test Mode	Test Standard	Mode	Tested Channel
Conducted Out of Band Emissions	-	1	FCC 15.247	802.11b	6
				BT-LE 1M(BT0)	0
		2	FCC 15.247	802.11b	11
				BT-LE 1M(BT0)	0
				BT-LE 1M(BT1)	39
		3	FCC 15.407_WLAN 5G	802.11a	149
			FCC 15.247	BT-LE 1M(BT0)	0
				BT-LE 1M(BT1)	39
		4	FCC 15.407_WLAN 5.9G	802.11be (EHT80) 484+242-tone MRU	171
			FCC 15.247	BT-LE 1M(BT0)	0
				BT-LE 1M(BT1)	39
		5	FCC 15.407_WLAN 6G	802.11be (EHT20)	181
			FCC 15.247	BT-LE 1M(BT0)	0
				BT-LE 1M(BT1)	39
		6	FCC 15.247	802.11b	11
			FCC 15.407_WLAN 5G	802.11a	165
			FCC 15.247	BT-LE 1M(BT1)	39
		7	FCC 15.247	802.11b	11
			FCC 15.407_WLAN 5.9G	802.11be (EHT40)	167
			FCC 15.247	BT-LE 1M(BT1)	39
		8	FCC 15.247	802.11b	11
			FCC 15.407_WLAN 6G	802.11be (EHT20) 106+26-tone MRU	93
			FCC 15.247	BT-LE 1M(BT1)	39
EUT Configure Mode:	A	EUT only (remove 50 ohm terminator and Connect to the appropriate equipment)			
	B	EUT with 50 ohm terminator			

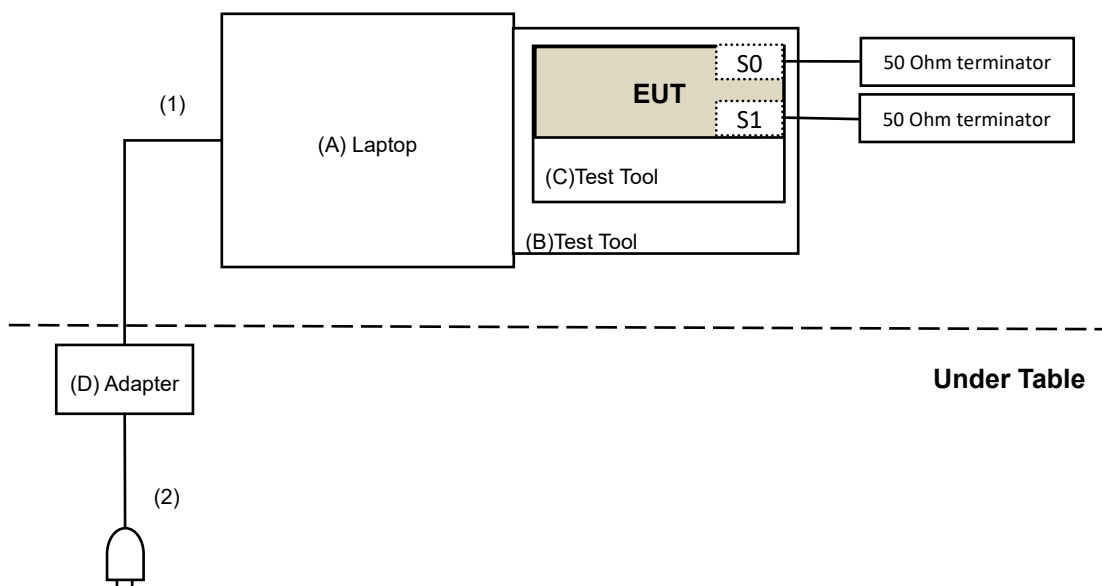
3.4 Test Program Used and Operation Descriptions

Controlling software QA UI(MT7935) V0.0.2.118 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.5 Connection Diagram of EUT and Peripheral Devices

For Unwanted Emissions test

Mode B



3.6 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 Unwanted Emissions below 1 GHz

Mode A

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
PXA Signal Analyzer Keysight	N9030B	MY57142938	2026/4/17	2027/4/16
Software	ADT_RF Test Software v8.5.6.4	N/A	N/A	N/A

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/8/18

Mode B

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-0842	2025/9/16	2026/9/15
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	2026/3/15	2027/3/14
Loop Antenna TESEQ	HLA 6121	63620	2025/10/20	2026/10/19
MXE EMI Receiver Keysight	N9038A	MY54450088	2026/4/1	2027/3/31
Preamplifier EMCI	EMC330N	980538	2026/3/15	2027/3/14
PXA Signal Analyzer Keysight	N9030B	MY57141948	2026/5/25	2027/5/24
RF Coaxial Cable PEWC	8D	966-5-1	2026/3/15	2027/3/14
		966-5-2	2026/3/15	2027/3/14
		966-5-3	2026/3/15	2027/3/14
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in HC - 966 Chamber No. 5(Hsinchu).
2. Tested Date: 2026/8/18

4.2 Unwanted Emissions above 1 GHz

Mode A

Refer to section 4.1 Mode A to get the tested date and information of the instruments.

Mode B

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1819	2025/11/9	2026/11/8
	BBHA 9170	9170-739	2025/11/9	2026/11/8
MXE EMI Receiver Keysight	N9038A	MY54450088	2026/4/1	2027/3/31
Preamplifier EMCI	EMC12630SE	980509	2026/1/17	2027/1/16
	EMC184045SE	980387	2026/8/5	2027/8/4
PXA Signal Analyzer Keysight	N9030B	MY57141948	2026/5/25	2027/5/24
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2026/1/15	2027/1/14
	EMC102-KM-KM-4000	200214	2026/1/15	2027/1/14
	EMC104-SM-SM-1500	180503	2026/3/7	2027/3/6
	EMC104-SM-SM-2000	180501	2026/3/7	2027/3/6
	EMC104-SM-SM-6000	180506	2026/3/7	2027/3/6
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in HC - 966 Chamber No. 5(Hsinchu).
2. Tested Date: 2026/8/18

4.3 Conducted Out of Band Emissions

Refer to section 4.1 Mode A to get the tested date and information of the instruments.

5 Limits of Test Items

5.1 Unwanted Emissions below 1 GHz

For FCC 15.247:

For FCC 15.407:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

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).

5.2 Unwanted Emissions above 1 GHz

For FCC 15.247:

Radiated emissions above 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Other emissions:

For Peak conducted power limits shall be at least 20 dB below the highest level of the desired power:

For FCC 15.407 transmitters operating in the 5.150-5.850 GHz band:

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedure New Rules v02r01	Field Strength at 3 m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m) ^{*1}
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m) ^{*1}
15.407(b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m) ^{*1}
15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2 (dBμV/m) ^{*1} PK: 105.2 (dBμV/m) ^{*2} PK: 110.8 (dBμV/m) ^{*3} PK: 122.2 (dBμV/m) ^{*4}

^{*1} beyond 75 MHz or more above of the band edge.

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

For FCC 15.407 transmitters operating in the 5.925-7.125 GHz band:

Limits of unwanted emission out of the restricted bands

Frequencies (MHz)	EIRP Limit	Equivalent Field Strength at 3 m
5925 MHz > F > 7125 MHz	Peak: -7 (dBm/MHz)	88.2 (dBuV/m)
	Average: -27 (dBm/MHz)	68.2 (dBuV/m)

Note: The following formula is used to convert the equipment isotropic radiated power (eirr) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirr (Watts).}$$

For FCC 15.247:

For FCC 15.407:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

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.

5.3 Conducted Out of Band Emissions

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

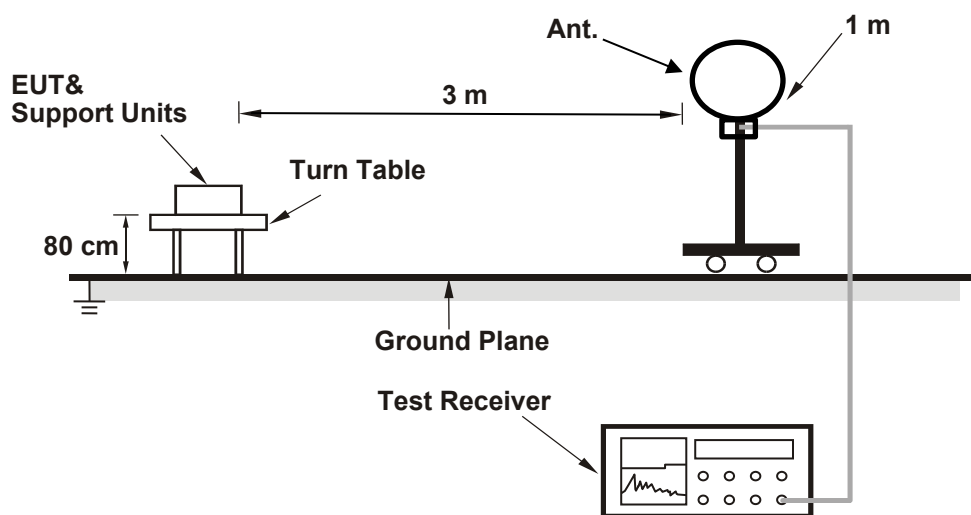
6 Test Arrangements

6.1 Unwanted Emissions below 1 GHz

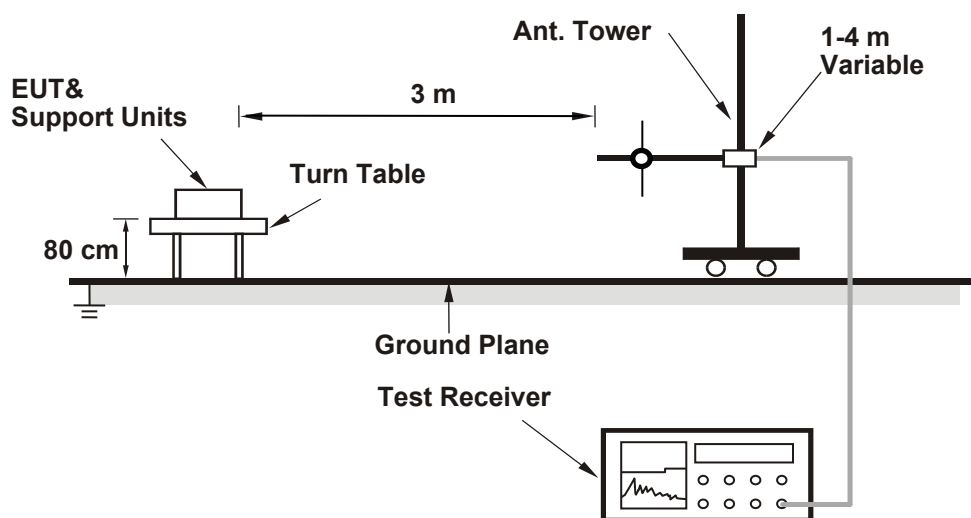
6.1.1 Test Setup

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).

6.1.2 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.

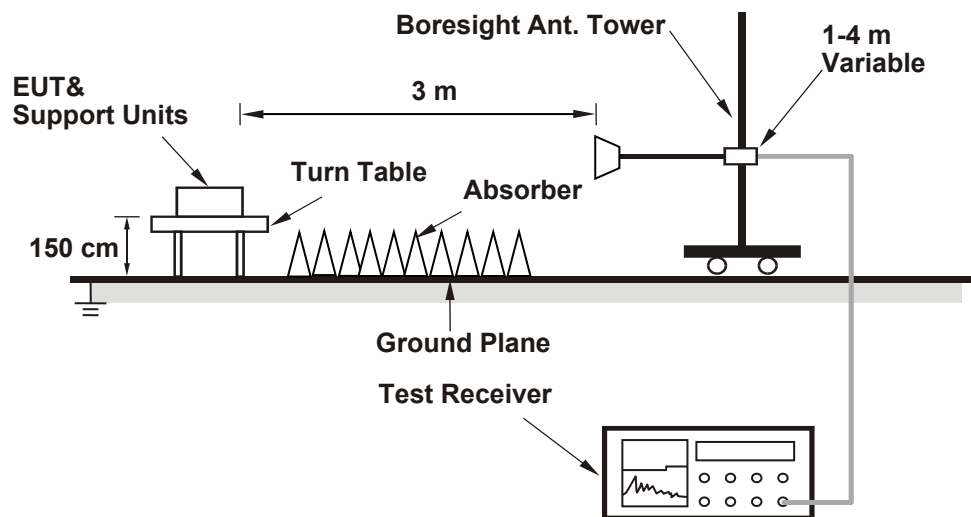
Notes:

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.

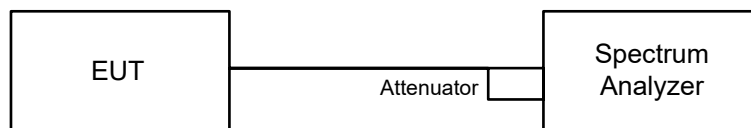
6.2 Unwanted Emissions above 1 GHz

6.2.1 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).

6.2.2 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 system 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.

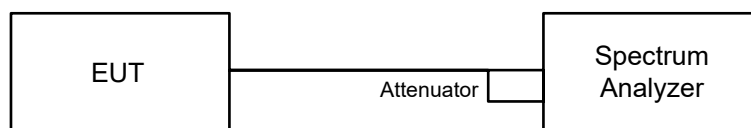
For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.

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.

6.3 Conducted Out of Band Emissions

6.3.1 Test Setup



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

6.3.2 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.

7 Test Results of Test Item

7.1 Unwanted Emissions below 1 GHz

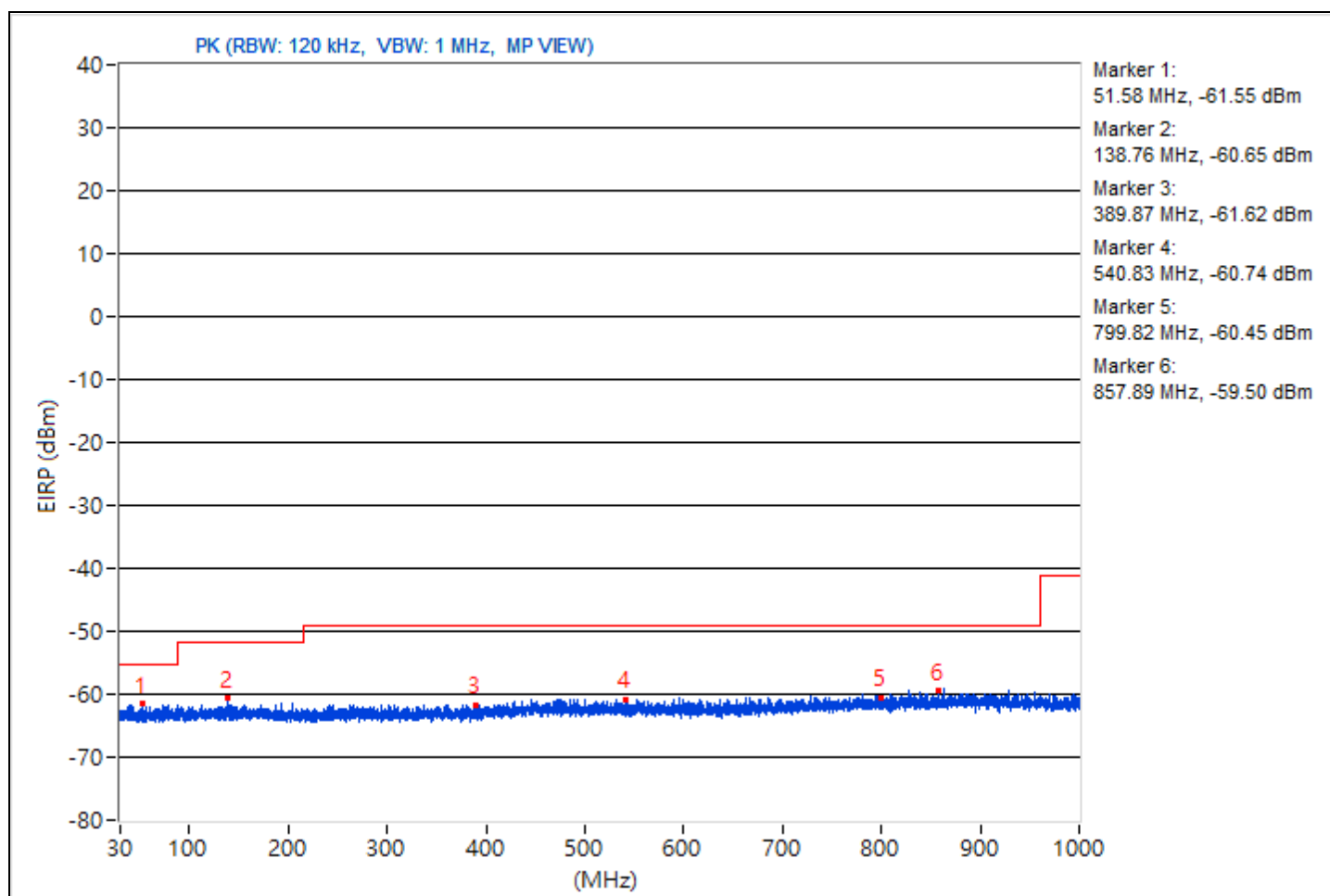
Mode A

Test Mode	1		
Frequency Range	30 MHz ~ 1 GHz	Environmental Conditions	25°C, 68% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	51.58	33.71 PK	40	-6.29	-75.94	-78.94	12.63	-61.55
2	138.76	34.61 PK	43.5	-8.89	-75.33	-77.52	12.63	-60.65
3	389.87	33.64 PK	46	-12.36	-78.51	-76.29	12.63	-61.62
4	540.83	34.52 PK	46	-11.48	-75.38	-77.68	12.63	-60.74
5	799.82	34.81 PK	46	-11.19	-78.26	-74.65	12.63	-60.45
6	857.89	35.76 PK	46	-10.24	-73.6	-77.56	12.63	-59.5

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.

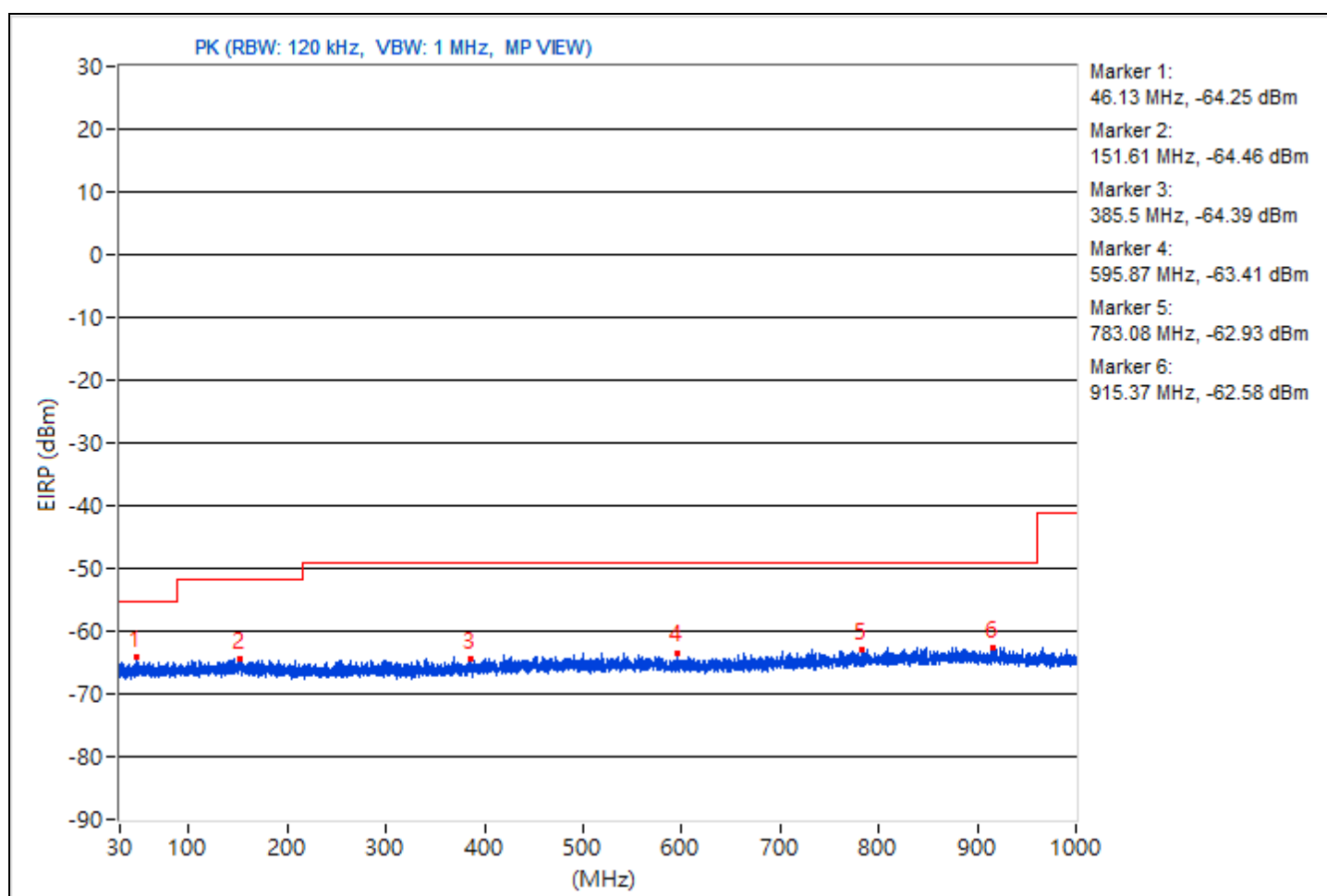


Test Mode	2		
Frequency Range	30 MHz ~ 1 GHz	Environmental Conditions	25°C, 68% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	46.13	31.01 PK	40	-8.99	-75.35	-79.27	9.62	-64.25
2	151.61	30.8 PK	43.5	-12.7	-75.91	-78.73	9.62	-64.46
3	385.5	30.87 PK	46	-15.13	-75.8	-78.74	9.62	-64.39
4	595.87	31.85 PK	46	-14.15	-74.66	-78.09	9.62	-63.41
5	783.08	32.33 PK	46	-13.67	-76.48	-74.8	9.62	-62.93
6	915.37	32.68 PK	46	-13.32	-73.99	-76.93	9.62	-62.58

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.

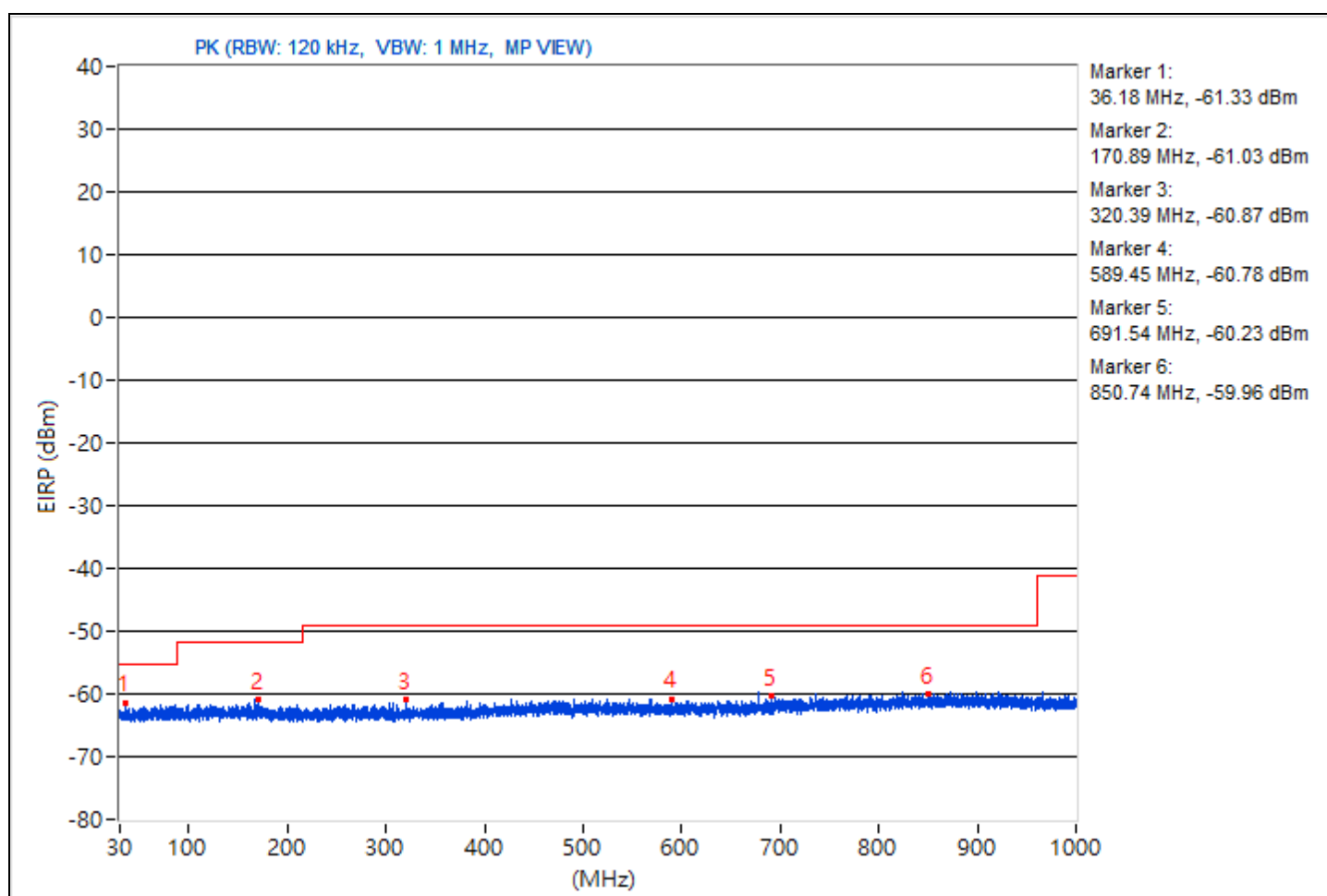


Test Mode	3		
Frequency Range	30 MHz ~ 1 GHz	Environmental Conditions	25°C, 68% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	36.18	33.93 PK	40	-6.07	-75.89	-78.41	12.63	-61.33
2	170.89	34.23 PK	43.5	-9.27	-75.12	-79.09	12.63	-61.03
3	320.39	34.39 PK	46	-11.61	-75.67	-77.55	12.63	-60.87
4	589.45	34.48 PK	46	-11.52	-78.99	-74.81	12.63	-60.78
5	691.54	35.03 PK	46	-10.97	-77.98	-74.45	12.63	-60.23
6	850.74	35.3 PK	46	-10.7	-76.82	-74.65	12.63	-59.96

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.

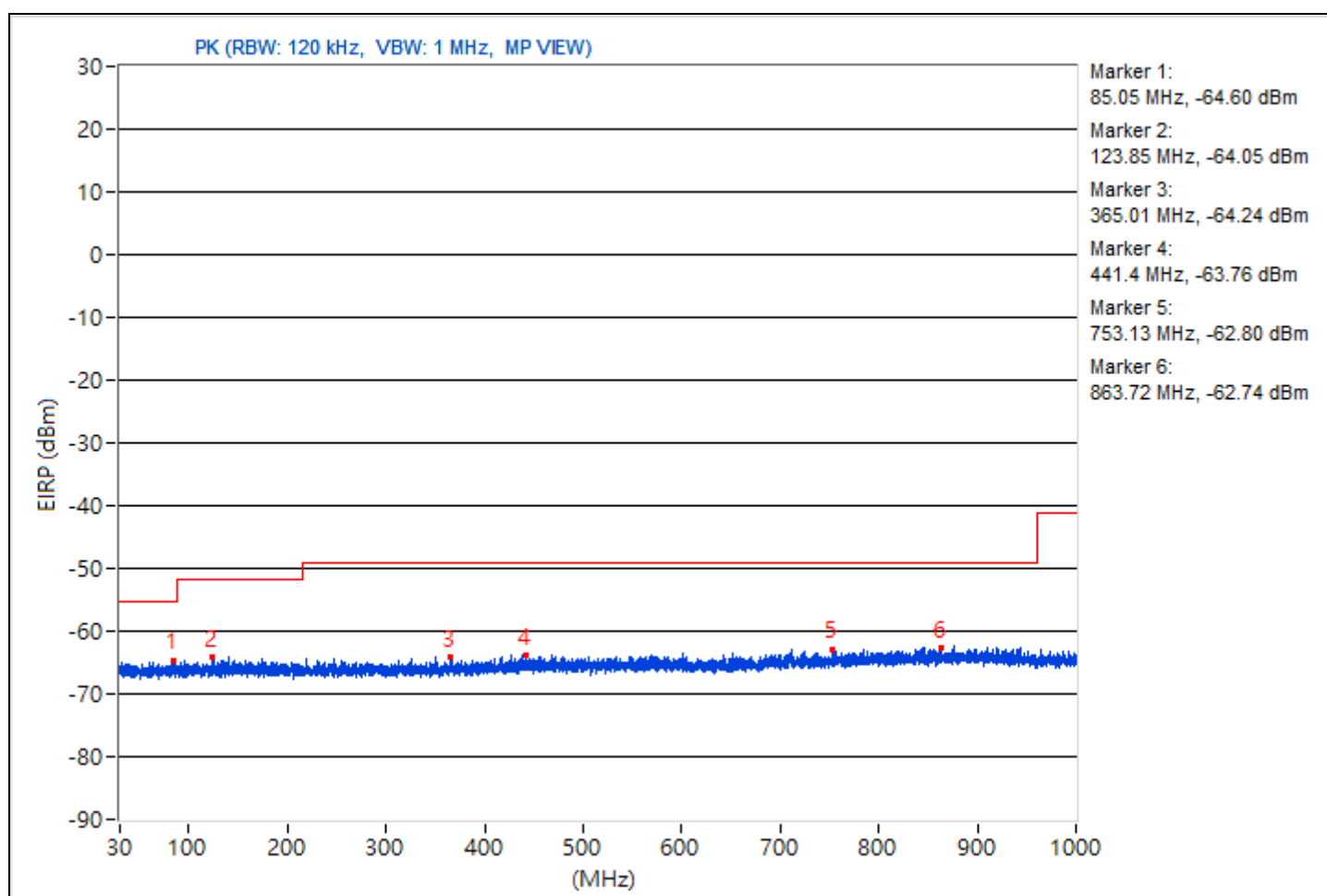


Test Mode	4		
Frequency Range	30 MHz ~ 1 GHz	Environmental Conditions	25°C, 68% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	85.05	30.66 PK	40	-9.34	-78.37	-76.33	9.62	-64.6
2	123.85	31.21 PK	43.5	-12.29	-76.05	-77.43	9.62	-64.05
3	365.01	31.02 PK	46	-14.98	-78.33	-75.78	9.62	-64.24
4	441.4	31.5 PK	46	-14.5	-75.01	-78.44	9.62	-63.76
5	753.13	32.46 PK	46	-13.54	-77.67	-73.96	9.62	-62.8
6	863.72	32.52 PK	46	-13.48	-74.41	-76.61	9.62	-62.74

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.

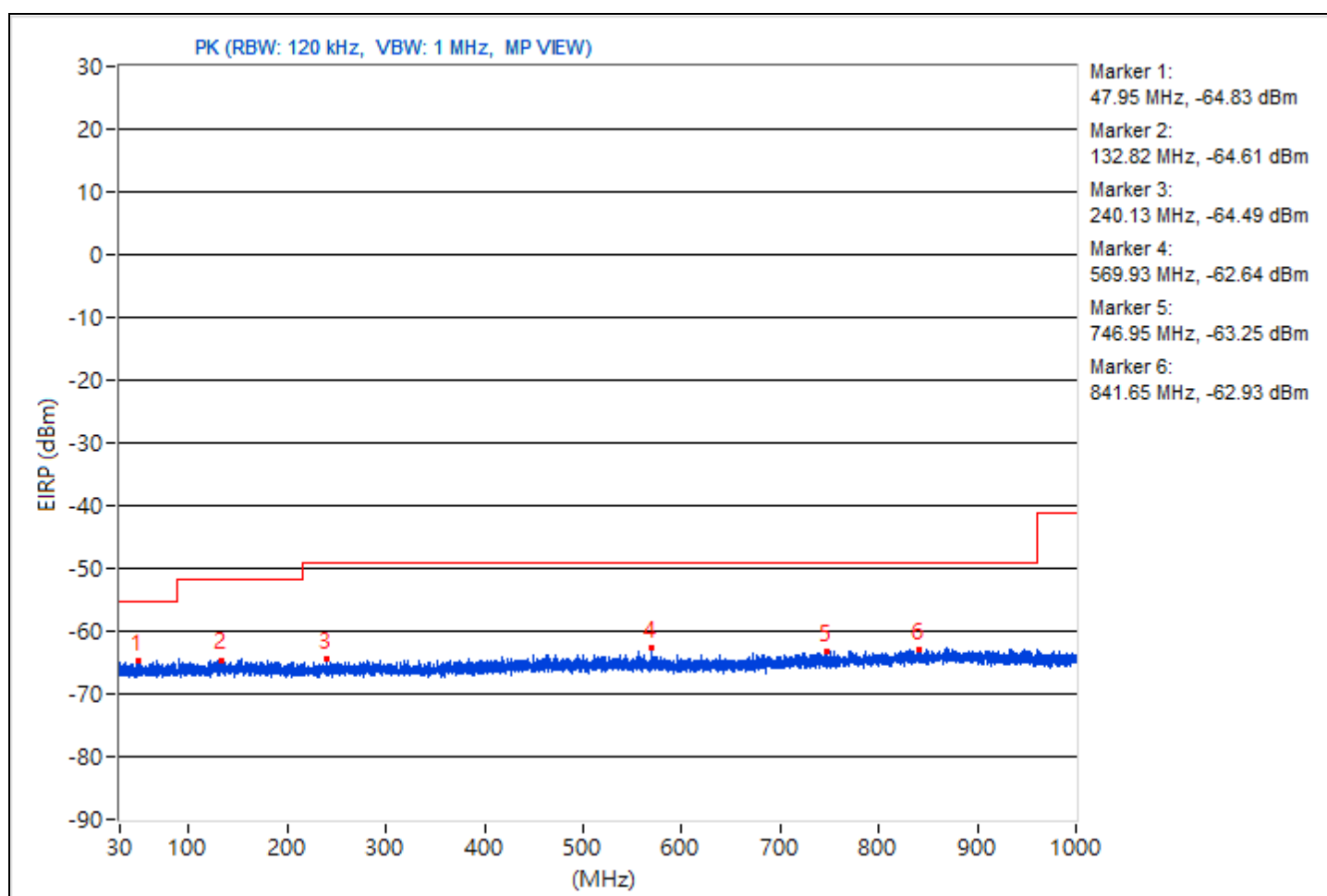


Test Mode	5		
Frequency Range	30 MHz ~ 1 GHz	Environmental Conditions	25°C, 68% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	47.95	30.43 PK	40	-9.57	-79.17	-76.24	9.62	-64.83
2	132.82	30.65 PK	43.5	-12.85	-76.16	-78.68	9.62	-64.61
3	240.13	30.77 PK	46	-15.23	-76.45	-77.92	9.62	-64.49
4	569.93	32.62 PK	46	-13.38	-75.08	-75.47	9.62	-62.64
5	746.95	32.01 PK	46	-13.99	-77.15	-74.9	9.62	-63.25
6	841.65	32.33 PK	46	-13.67	-77.05	-74.45	9.62	-62.93

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.

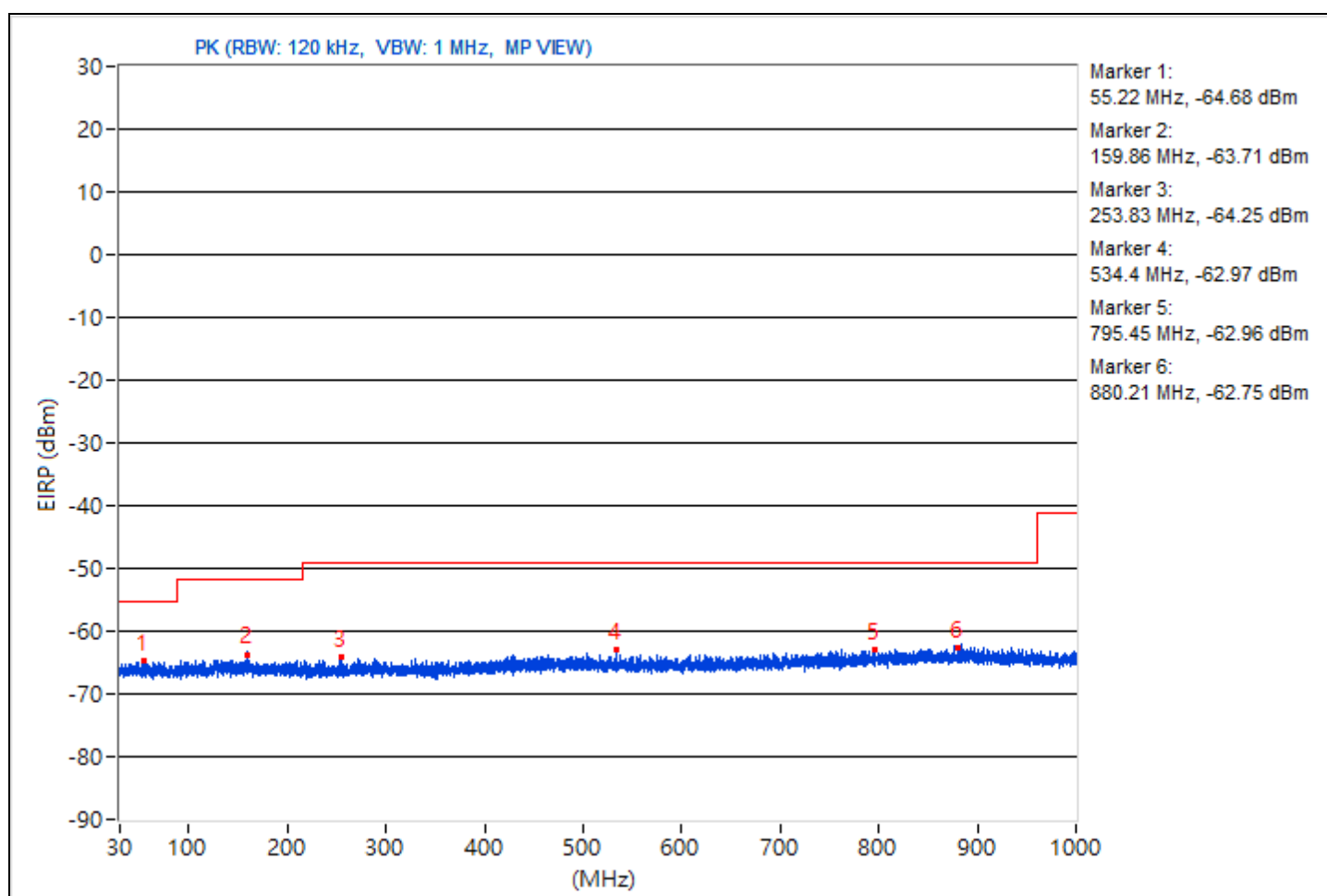


Test Mode	6		
Frequency Range	30 MHz ~ 1 GHz	Environmental Conditions	25°C, 68% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	55.22	30.58 PK	40	-9.42	-78.76	-76.22	9.62	-64.68
2	159.86	31.55 PK	43.5	-11.95	-76.01	-76.7	9.62	-63.71
3	253.83	31.01 PK	46	-14.99	-78	-75.99	9.62	-64.25
4	534.4	32.29 PK	46	-13.71	-74.22	-77.65	9.62	-62.97
5	795.45	32.3 PK	46	-13.7	-74.39	-77.27	9.62	-62.96
6	880.21	32.51 PK	46	-13.49	-74.32	-76.78	9.62	-62.75

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.

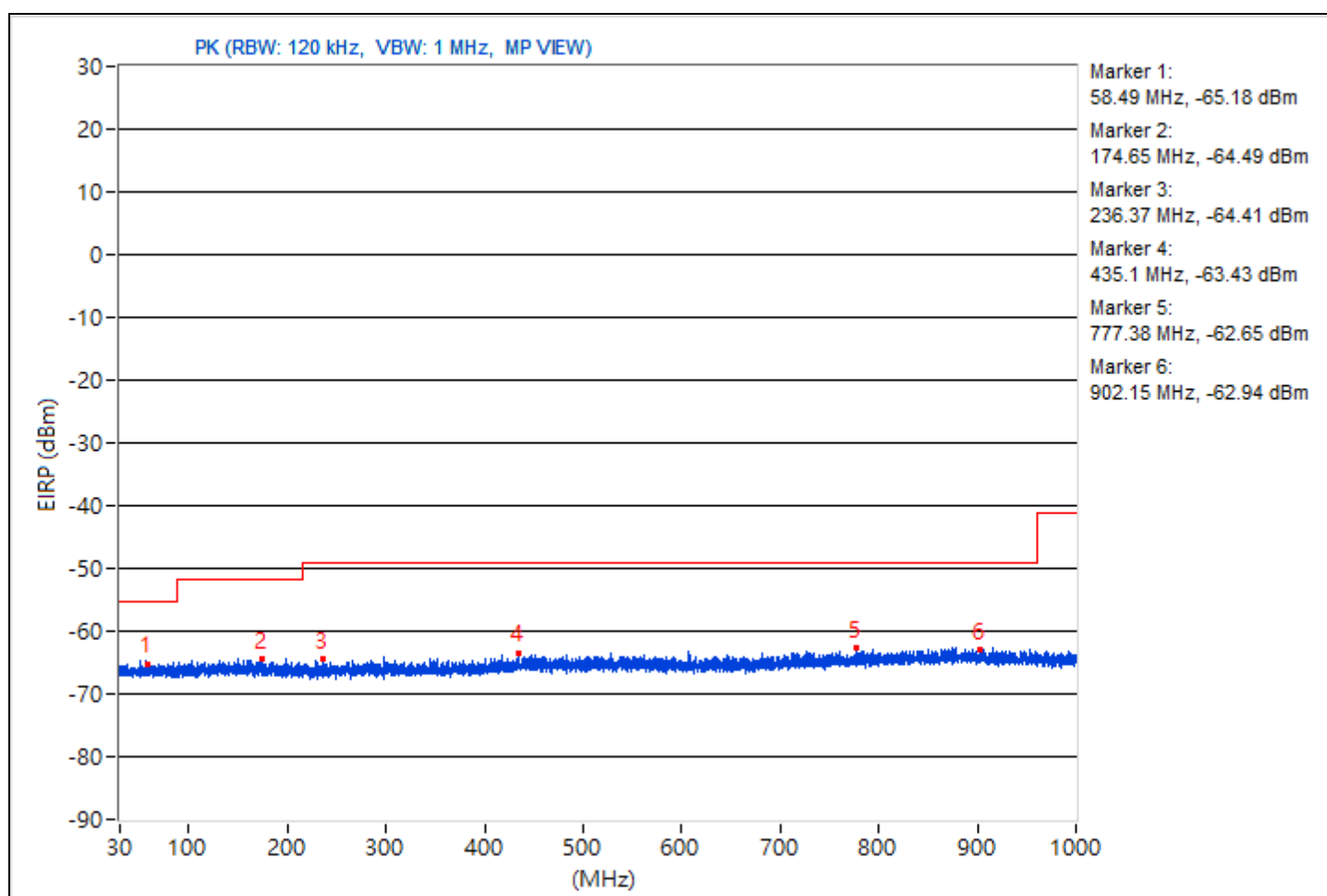


Test Mode	7		
Frequency Range	30 MHz ~ 1 GHz	Environmental Conditions	25°C, 68% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	58.49	30.08 PK	40	-9.92	-76.71	-79.3	9.62	-65.18
2	174.65	30.77 PK	43.5	-12.73	-78.26	-76.21	9.62	-64.49
3	236.37	30.85 PK	46	-15.15	-77.92	-76.31	9.62	-64.41
4	435.1	31.83 PK	46	-14.17	-77	-75.28	9.62	-63.43
5	777.38	32.61 PK	46	-13.39	-74.45	-76.32	9.62	-62.65
6	902.15	32.32 PK	46	-13.68	-77.15	-74.41	9.62	-62.94

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.

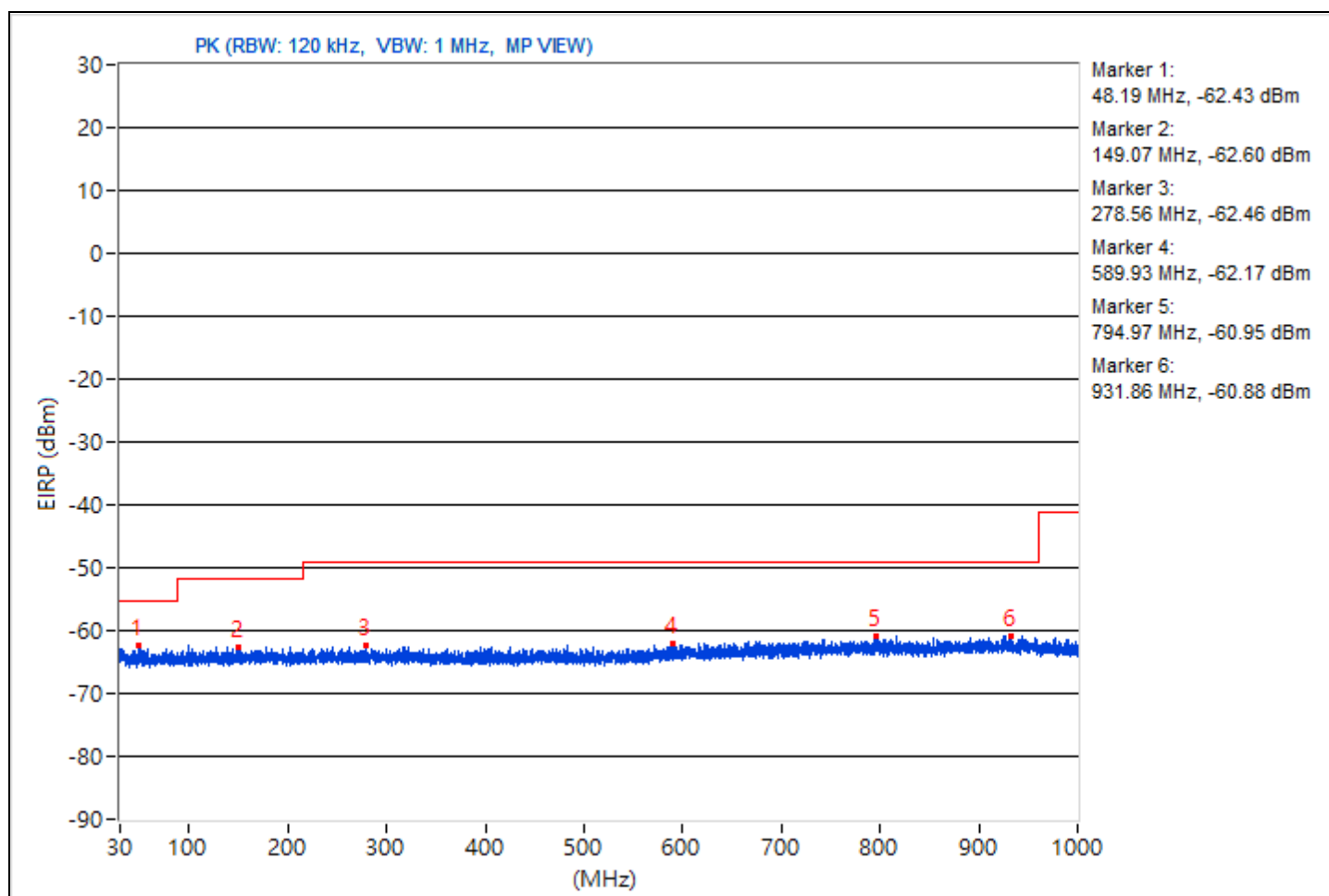


Test Mode	8		
Frequency Range	30 MHz ~ 1 GHz	Environmental Conditions	25°C, 68% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	48.19	32.83 PK	40	-7.17	-75.35	-74.79	9.62	-62.43
2	149.07	32.66 PK	43.5	-10.84	-76.81	-74.07	9.62	-62.6
3	278.56	32.8 PK	46	-13.2	-74.55	-75.7	9.62	-62.46
4	589.93	33.09 PK	46	-12.91	-73.71	-76.27	9.62	-62.17
5	794.97	34.31 PK	46	-11.69	-73.72	-73.45	9.62	-60.95
6	931.86	34.38 PK	46	-11.62	-72.16	-75.5	9.62	-60.88

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.



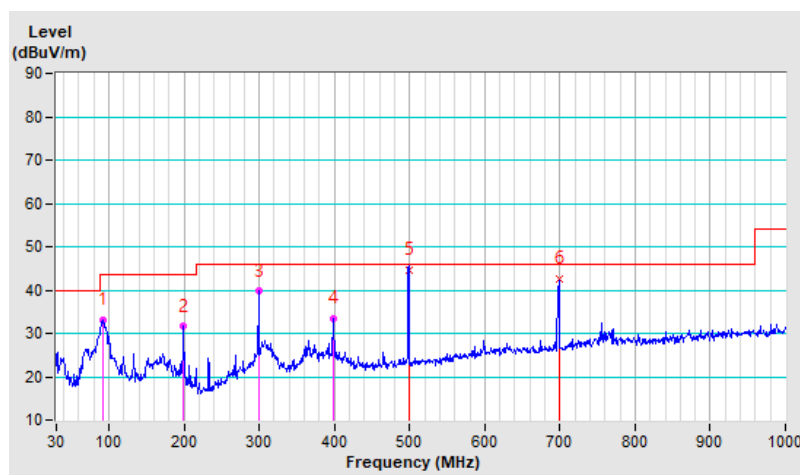
Mode B

Test Mode	1		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Stars Liu		

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	91.13	33.0 PK	43.5	-10.5	2.00 H	186	51.4	-18.4
2	199.53	31.6 PK	43.5	-11.9	2.00 H	144	47.6	-16.0
3	298.76	39.7 PK	46.0	-6.3	1.00 H	356	51.8	-12.1
4	398.31	33.4 PK	46.0	-12.6	1.00 H	128	43.1	-9.7
5	498.87	44.7 QP	46.0	-1.3	2.00 H	85	52.3	-7.6
6	698.43	42.6 QP	46.0	-3.4	1.00 H	100	46.2	-3.6

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.

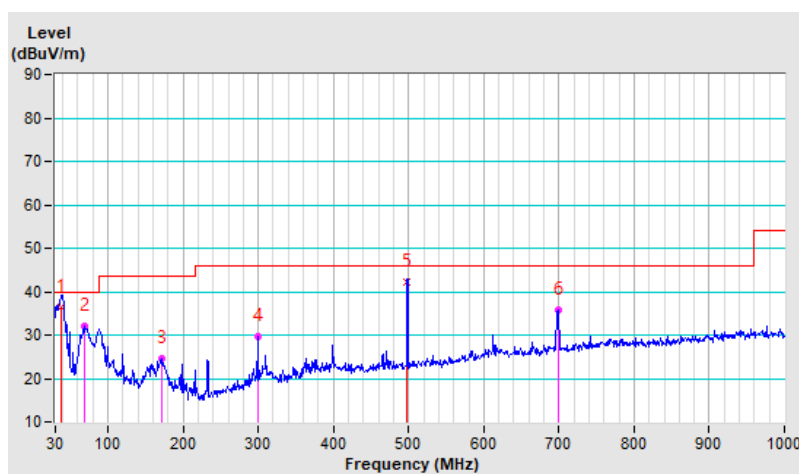


Test Mode	1		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Stars Liu		

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	37.81	36.4 QP	40.0	-3.6	1.00 V	360	49.5	-13.1
2	68.19	32.0 PK	40.0	-8.0	1.00 V	255	46.6	-14.6
3	170.97	24.6 PK	43.5	-18.9	1.00 V	279	37.8	-13.2
4	299.3	29.7 PK	46.0	-16.3	1.00 V	60	41.8	-12.1
5	497.86	42.2 QP	46.0	-3.8	2.00 V	61	49.8	-7.6
6	698.4	35.9 PK	46.0	-10.1	2.00 V	60	39.5	-3.6

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.

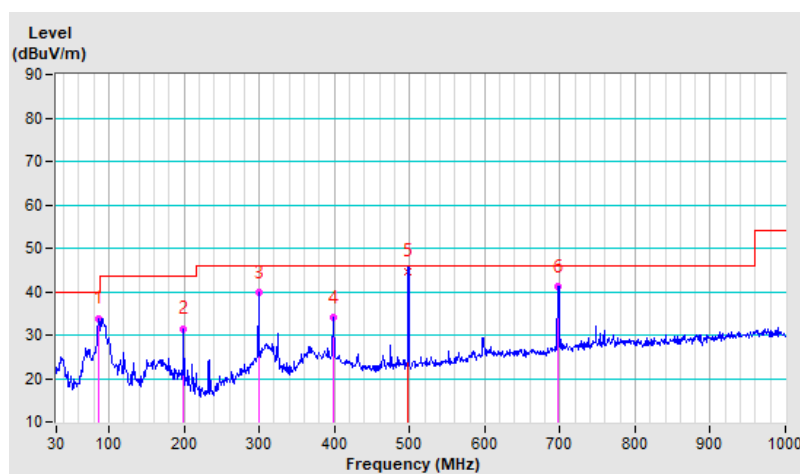


Test Mode	2		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Stars Liu		

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	86.77	33.9 PK	40.0	-6.1	2.00 H	203	52.4	-18.5
2	199.53	31.3 PK	43.5	-12.2	1.00 H	138	47.3	-16.0
3	299.32	39.7 PK	46.0	-6.3	1.00 H	1	51.8	-12.1
4	399.08	33.9 PK	46.0	-12.1	1.00 H	126	43.5	-9.6
5	497.88	44.6 QP	46.0	-1.4	2.00 H	87	52.2	-7.6
6	697	41.1 PK	46.0	-4.9	1.00 H	96	44.7	-3.6

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.

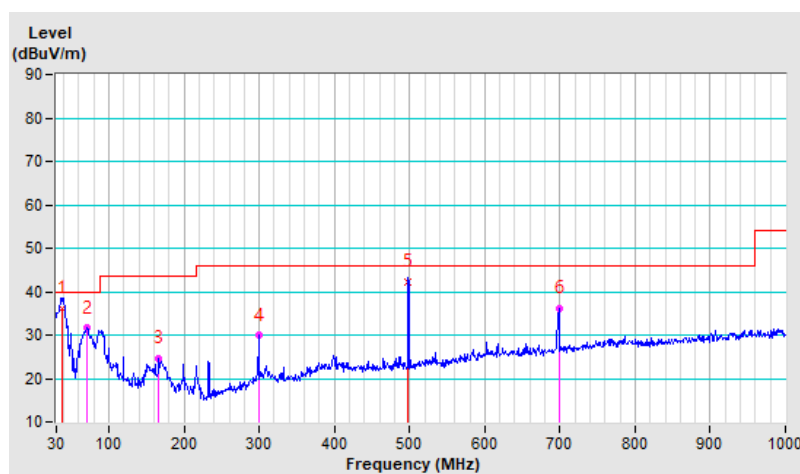


Test Mode	2		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Stars Liu		

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	36.81	36.2 QP	40.0	-3.8	1.00 V	340	49.5	-13.3
2	70.86	31.6 PK	40.0	-8.4	1.00 V	217	46.5	-14.9
3	166.14	24.5 PK	43.5	-19.0	1.00 V	292	37.4	-12.9
4	298.74	29.9 PK	46.0	-16.1	1.00 V	57	42.0	-12.1
5	497.86	42.2 QP	46.0	-3.8	2.00 V	62	49.8	-7.6
6	698.38	36.1 PK	46.0	-9.9	1.00 V	64	39.7	-3.6

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.

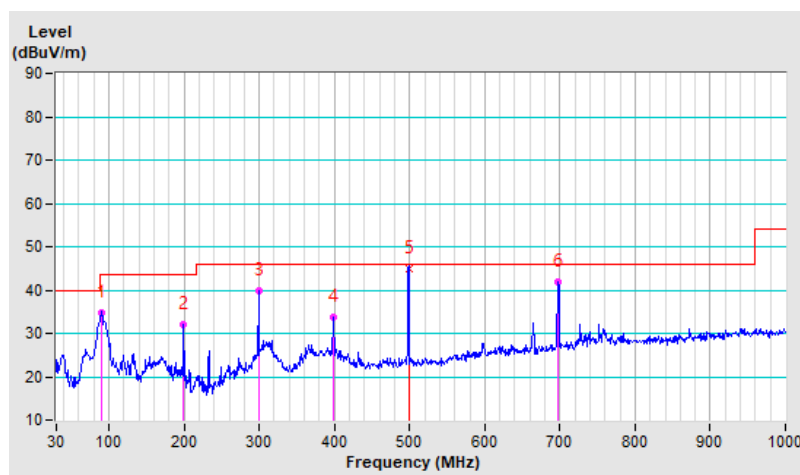


Test Mode	3		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Stars Liu		

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	91.04	34.9 PK	43.5	-8.6	1.00 H	32	53.3	-18.4
2	199.19	32.0 PK	43.5	-11.5	2.00 H	151	47.9	-15.9
3	299.3	39.8 PK	46.0	-6.2	2.00 H	1	51.9	-12.1
4	399.04	33.8 PK	46.0	-12.2	1.00 H	120	43.4	-9.6
5	498.87	44.9 QP	46.0	-1.1	2.00 H	20	52.5	-7.6
6	697.02	41.9 PK	46.0	-4.1	1.00 H	99	45.5	-3.6

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.

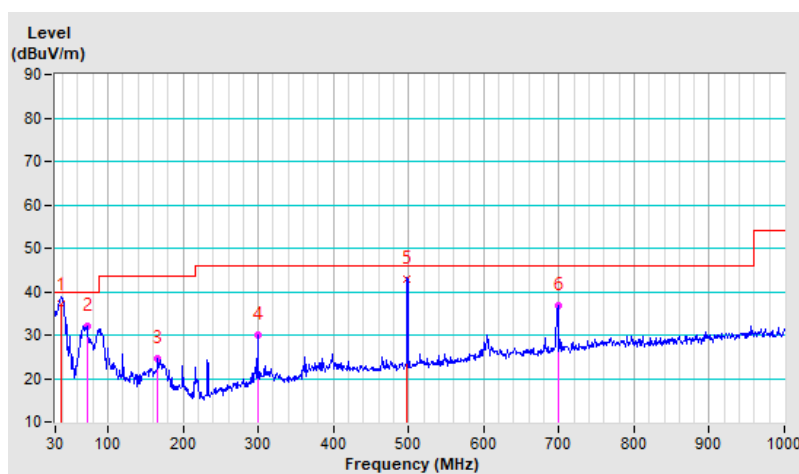


Test Mode	3		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Stars Liu		

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	37.98	37.0 QP	40.0	-3.0	1.00 V	360	50.1	-13.1
2	72.39	32.1 PK	40.0	-7.9	1.00 V	229	47.4	-15.3
3	166.26	24.7 PK	43.5	-18.8	1.00 V	295	37.6	-12.9
4	299.3	30.1 PK	46.0	-15.9	1.00 V	44	42.2	-12.1
5	497.88	42.9 QP	46.0	-3.1	2.00 V	57	50.5	-7.6
6	698.43	36.7 PK	46.0	-9.3	1.00 V	62	40.3	-3.6

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.

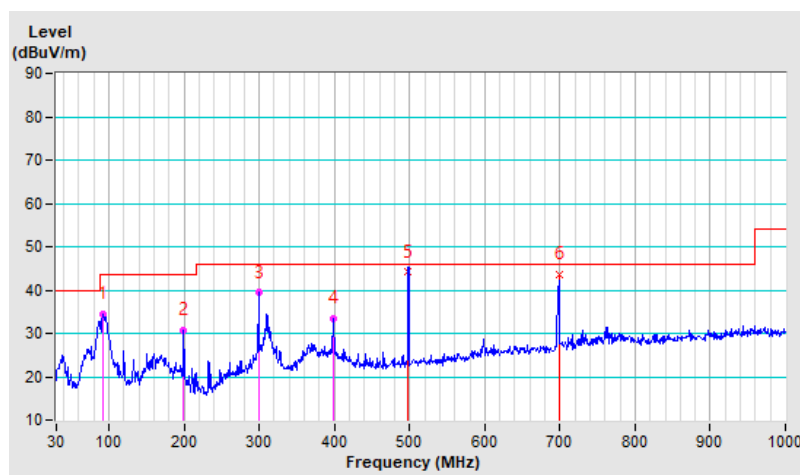


Test Mode	4		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Tank Wu		

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	92.1	34.4 PK	43.5	-9.1	2.00 H	221	52.7	-18.3
2	199.53	30.6 PK	43.5	-12.9	2.00 H	168	46.6	-16.0
3	298.76	39.3 PK	46.0	-6.7	1.00 H	7	51.4	-12.1
4	398.36	33.4 PK	46.0	-12.6	1.00 H	125	43.0	-9.6
5	497.88	44.1 QP	46.0	-1.9	2.00 H	135	51.7	-7.6
6	698.4	43.6 QP	46.0	-2.4	1.00 H	341	47.2	-3.6

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.

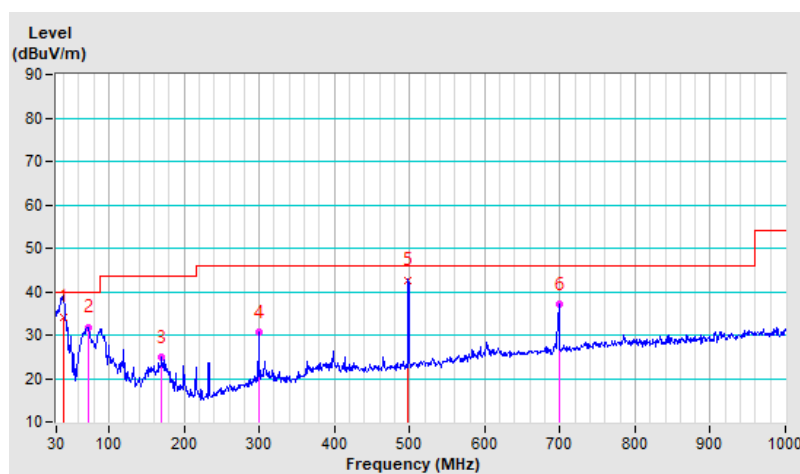


Test Mode	4		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Stars Liu		

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	39.07	34.1 QP	40.0	-5.9	2.00 V	360	47.4	-13.3
2	72.05	31.8 PK	40.0	-8.2	1.00 V	219	46.9	-15.1
3	169.85	24.8 PK	43.5	-18.7	1.00 V	240	37.9	-13.1
4	299.3	30.5 PK	46.0	-15.5	1.00 V	58	42.6	-12.1
5	497.88	42.7 QP	46.0	-3.3	2.00 V	69	50.3	-7.6
6	698.43	37.0 PK	46.0	-9.0	1.00 V	64	40.6	-3.6

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.

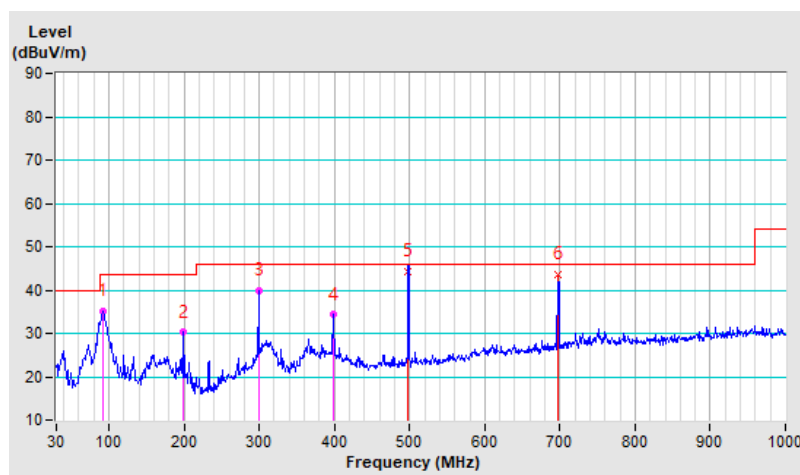


Test Mode	5		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Tank Wu		

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	91.93	35.2 PK	43.5	-8.3	2.00 H	198	53.5	-18.3
2	199.26	30.2 PK	43.5	-13.3	2.00 H	150	46.1	-15.9
3	299.3	39.8 PK	46.0	-6.2	1.00 H	5	51.9	-12.1
4	398.33	34.3 PK	46.0	-11.7	1.00 H	132	44.0	-9.7
5	497.88	44.3 QP	46.0	-1.7	2.00 H	118	51.9	-7.6
6	697.02	43.5 QP	46.0	-2.5	1.00 H	335	47.1	-3.6

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.

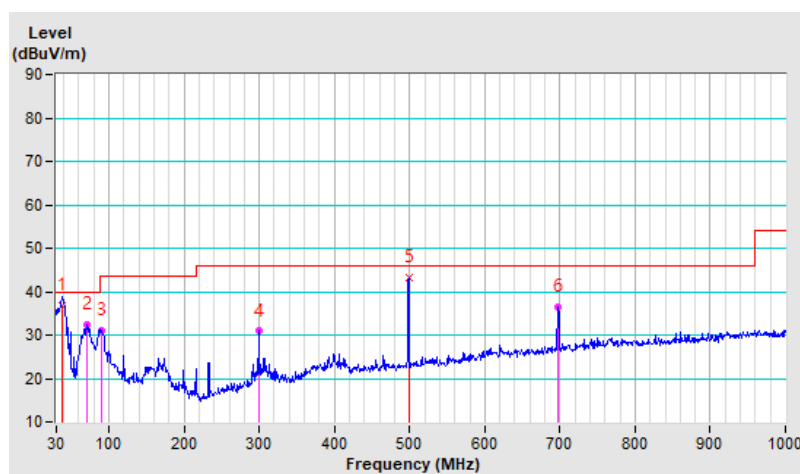


Test Mode	5		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Tank Wu		

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	37.98	36.7 QP	40.0	-3.3	1.00 V	240	49.8	-13.1
2	71.08	32.3 PK	40.0	-7.7	1.00 V	231	47.2	-14.9
3	90.29	31.1 PK	43.5	-12.4	3.00 V	102	49.6	-18.5
4	299.3	30.9 PK	46.0	-15.1	1.00 V	62	43.0	-12.1
5	498.85	43.2 QP	46.0	-2.8	2.00 V	77	50.8	-7.6
6	697.02	36.4 PK	46.0	-9.6	1.00 V	68	40.0	-3.6

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.

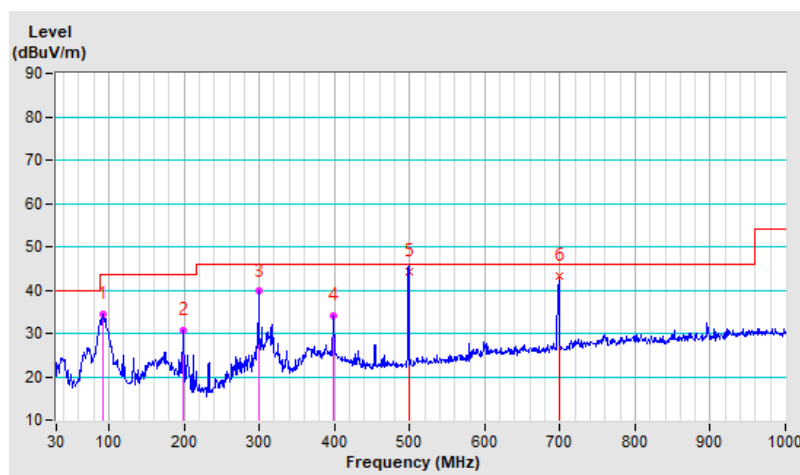


Test Mode	6		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Tank Wu		

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	92.13	34.5 PK	43.5	-9.0	2.00 H	216	52.8	-18.3
2	199.53	30.8 PK	43.5	-12.7	1.00 H	165	46.8	-16.0
3	299.3	39.7 PK	46.0	-6.3	1.00 H	2	51.8	-12.1
4	399.11	34.2 PK	46.0	-11.8	1.00 H	360	43.8	-9.6
5	498.87	44.3 QP	46.0	-1.7	2.00 H	127	51.9	-7.6
6	698.4	43.2 QP	46.0	-2.8	1.00 H	321	46.8	-3.6

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.

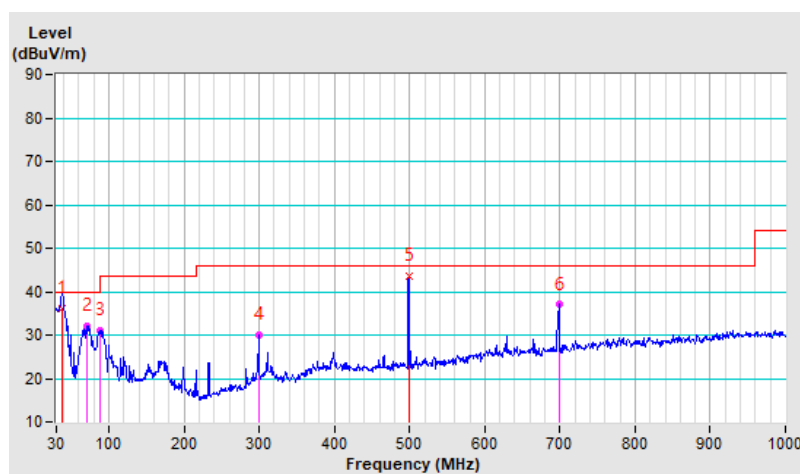


Test Mode	6		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Tank Wu		

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	38.44	36.2 QP	40.0	-3.8	1.00 V	233	49.3	-13.1
2	71.44	32.2 PK	40.0	-7.8	1.00 V	245	47.2	-15.0
3	87.88	31.1 PK	40.0	-8.9	1.00 V	257	49.6	-18.5
4	298.74	30.0 PK	46.0	-16.0	1.00 V	60	42.1	-12.1
5	498.87	43.5 QP	46.0	-2.5	2.00 V	89	51.1	-7.6
6	698.43	37.0 PK	46.0	-9.0	1.00 V	66	40.6	-3.6

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.

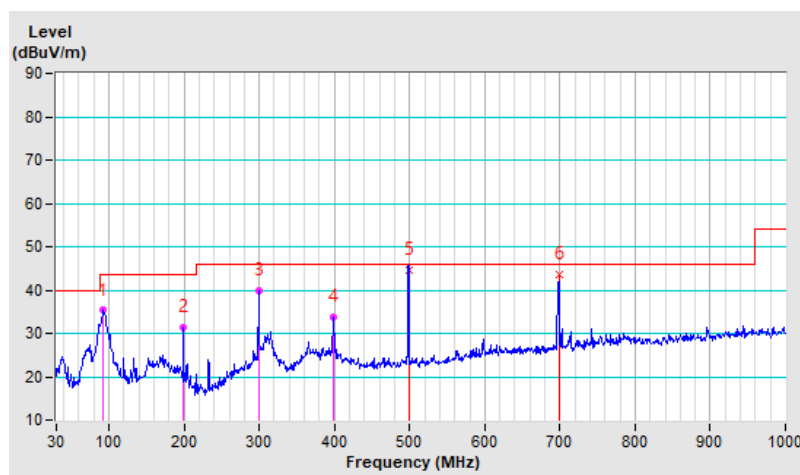


Test Mode	7		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Tank Wu		

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	92.83	35.3 PK	43.5	-8.2	2.00 H	196	53.5	-18.2
2	199.14	31.3 PK	43.5	-12.2	1.00 H	159	47.2	-15.9
3	299.3	39.8 PK	46.0	-6.2	1.00 H	6	51.9	-12.1
4	399.08	33.7 PK	46.0	-12.3	1.00 H	360	43.3	-9.6
5	498.87	44.6 QP	46.0	-1.4	2.00 H	125	52.2	-7.6
6	698.43	43.6 QP	46.0	-2.4	1.00 H	347	47.2	-3.6

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.

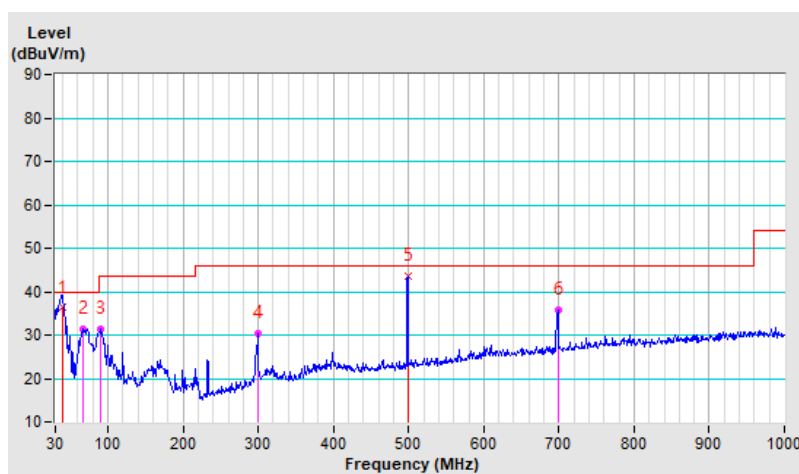


Test Mode	7		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Tank Wu		

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	38.83	36.3 QP	40.0	-3.7	1.00 V	235	49.6	-13.3
2	66.76	31.4 PK	40.0	-8.6	1.00 V	225	45.4	-14.0
3	91.04	31.4 PK	43.5	-12.1	1.00 V	268	49.8	-18.4
4	298.76	30.4 PK	46.0	-15.6	1.00 V	53	42.5	-12.1
5	498.87	43.6 QP	46.0	-2.4	1.00 V	360	51.2	-7.6
6	698.4	35.8 PK	46.0	-10.2	2.00 V	98	39.4	-3.6

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.

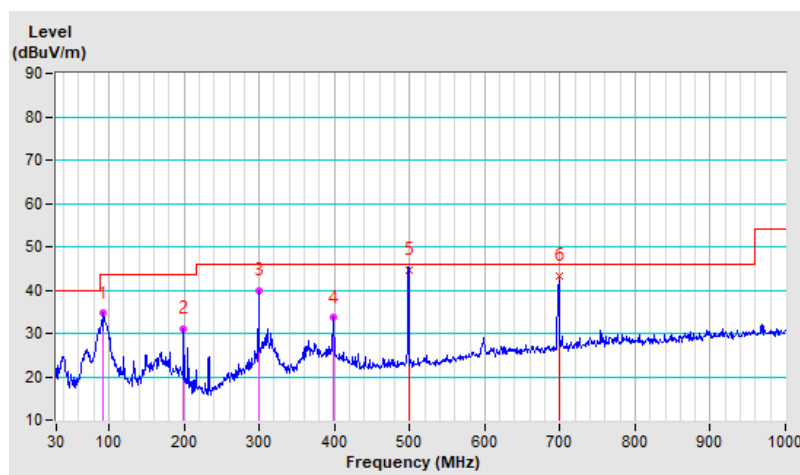


Test Mode	8		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Tank Wu		

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	93.03	34.6 PK	43.5	-8.9	2.00 H	186	52.8	-18.2
2	199.53	31.1 PK	43.5	-12.4	1.00 H	164	47.1	-16.0
3	299.3	39.8 PK	46.0	-6.2	1.00 H	360	51.9	-12.1
4	399.06	33.6 PK	46.0	-12.4	1.00 H	120	43.2	-9.6
5	498.87	44.7 QP	46.0	-1.3	2.00 H	114	52.3	-7.6
6	698.43	43.3 QP	46.0	-2.7	1.00 H	360	46.9	-3.6

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.

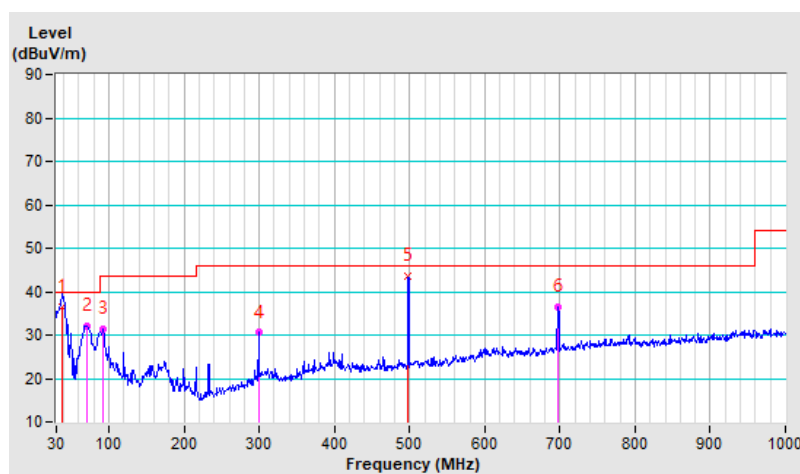


Test Mode	8		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22.3 °C, 73.5% RH
Tested By	Tank Wu		

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	37.98	36.5 QP	40.0	-3.5	1.00 V	233	49.6	-13.1
2	70.86	32.1 PK	40.0	-7.9	1.00 V	254	47.0	-14.9
3	92.1	31.5 PK	43.5	-12.0	3.00 V	124	49.8	-18.3
4	298.76	30.5 PK	46.0	-15.5	1.00 V	58	42.6	-12.1
5	497.9	43.5 QP	46.0	-2.5	2.00 V	86	51.1	-7.6
6	697.02	36.5 PK	46.0	-9.5	1.00 V	65	40.1	-3.6

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.



7.2 Unwanted Emissions above 1 GHz

Mode A

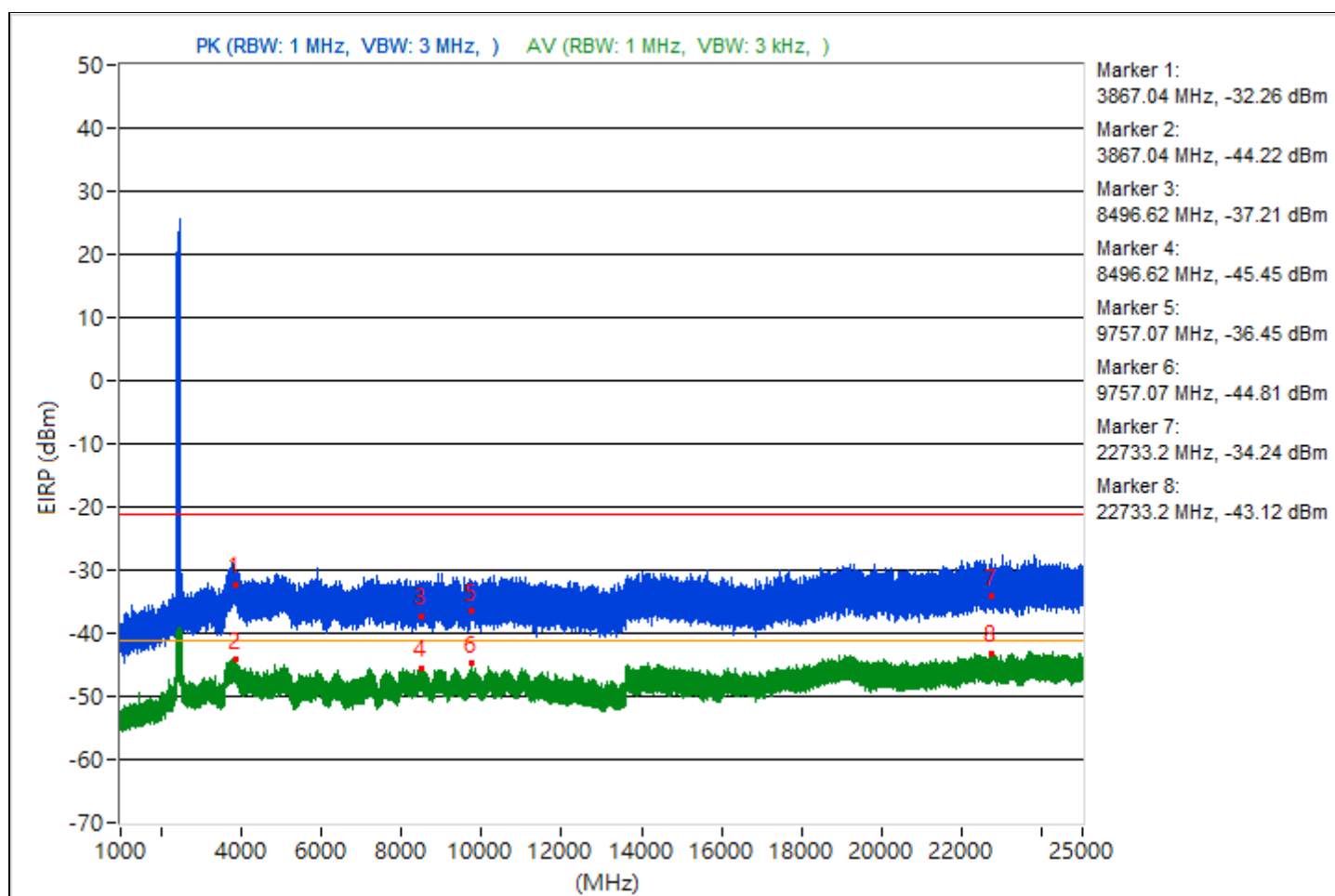
Conducted Unwanted Emissions

Test Mode	1		
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 75% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3867.04	63 PK	74	-11	-42.13	-44.62	7.93	-32.26
2	3867.04	51.04 AV	54	-2.96	-56.84	-53.95	7.93	-44.22
3	8496.62	58.05 PK	74	-15.95	-47.79	-48.54	7.93	-37.21
4	8496.62	49.81 AV	54	-4.19	-57.4	-55.58	7.93	-45.45
5	#9757.07	58.81 PK	74	-15.19	-46.33	-48.78	7.93	-36.45
6	#9757.07	50.45 AV	54	-3.55	-55.21	-56.36	7.93	-44.81
7	22733.2	61.02 PK	74	-12.98	-47.41	-43.72	7.93	-34.24
8	22733.2	52.14 AV	54	-1.86	-56.09	-52.68	7.93	-43.12

Notes:

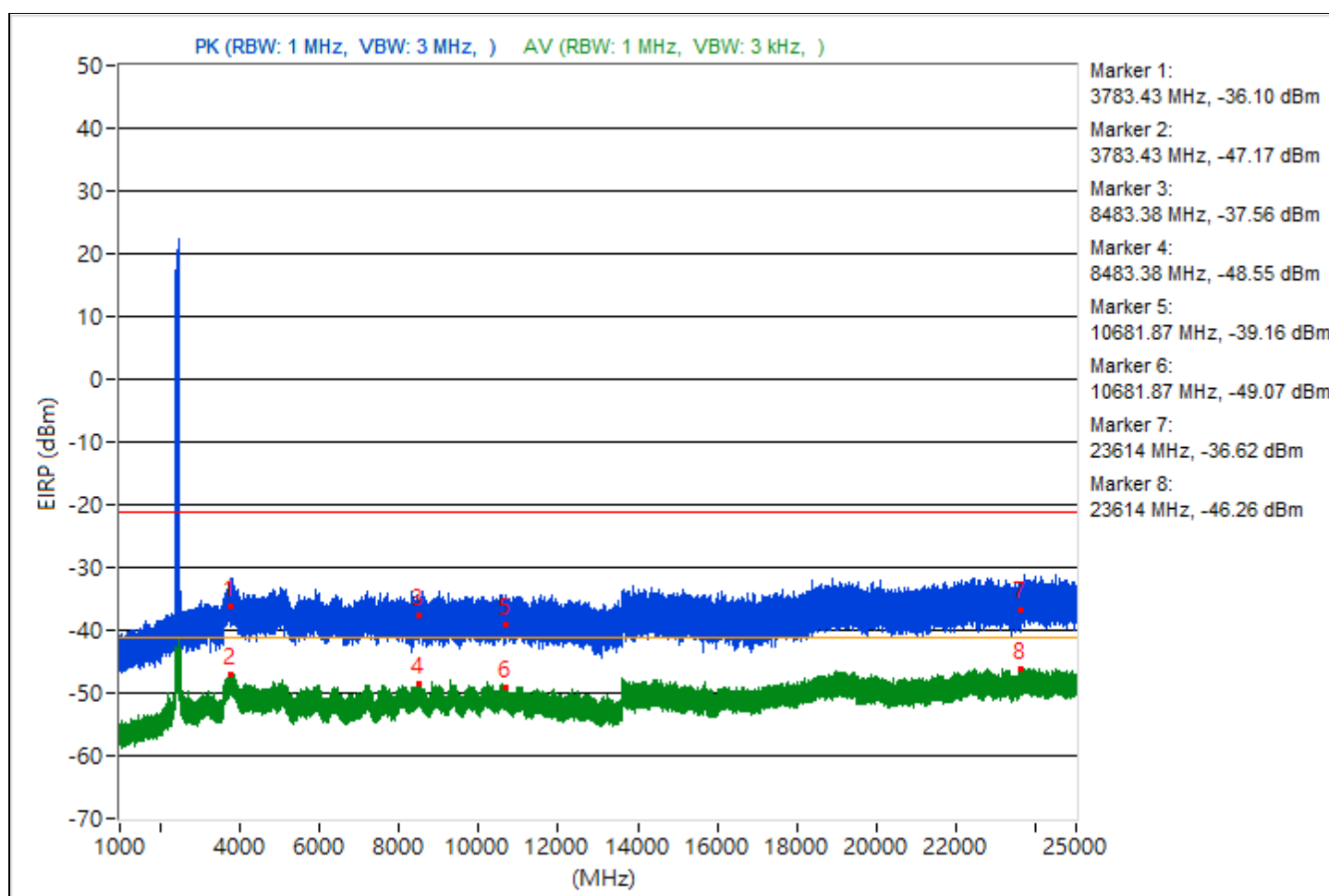
1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.



Test Mode	2		
Frequency Range	1 GHz ~ 25 GHz	Environmental Conditions	25°C, 75% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3783.43	59.16 PK	74	-14.84	-43.61	-44.5	4.92	-36.1
2	3783.43	48.09 AV	54	-5.91	-53.92	-56.74	4.92	-47.17
3	8483.38	57.7 PK	74	-16.3	-46.23	-44.86	4.92	-37.56
4	8483.38	46.71 AV	54	-7.29	-57.59	-55.6	4.92	-48.55
5	10681.87	56.1 PK	74	-17.9	-46.98	-47.2	4.92	-39.16
6	10681.87	46.19 AV	54	-7.81	-59.27	-55.51	4.92	-49.07
7	23614	58.64 PK	74	-15.36	-44.74	-44.37	4.92	-36.62
8	23614	49 AV	54	-5	-56.25	-52.8	4.92	-46.26

Note: Margin value = Emission Level - Limit value

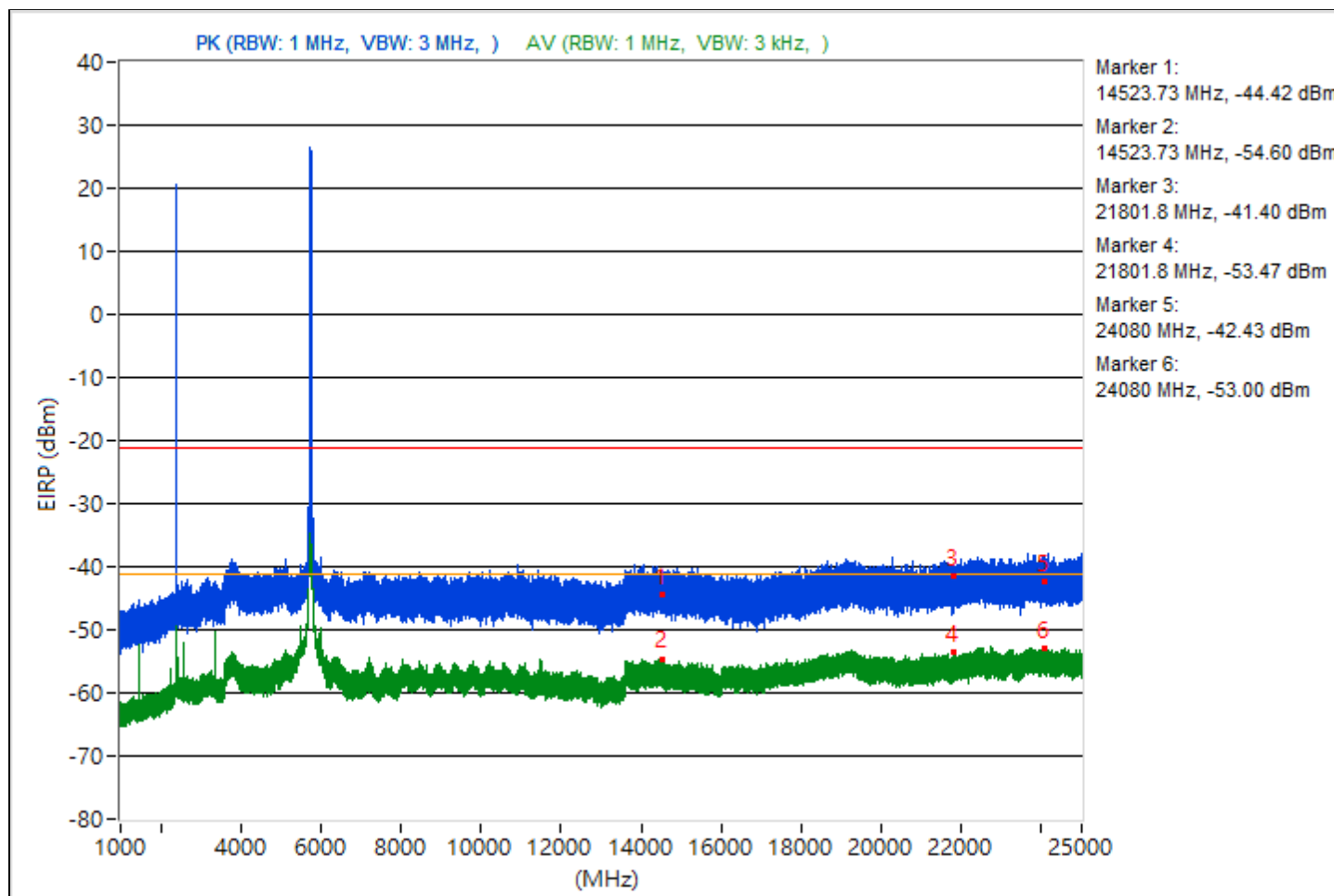


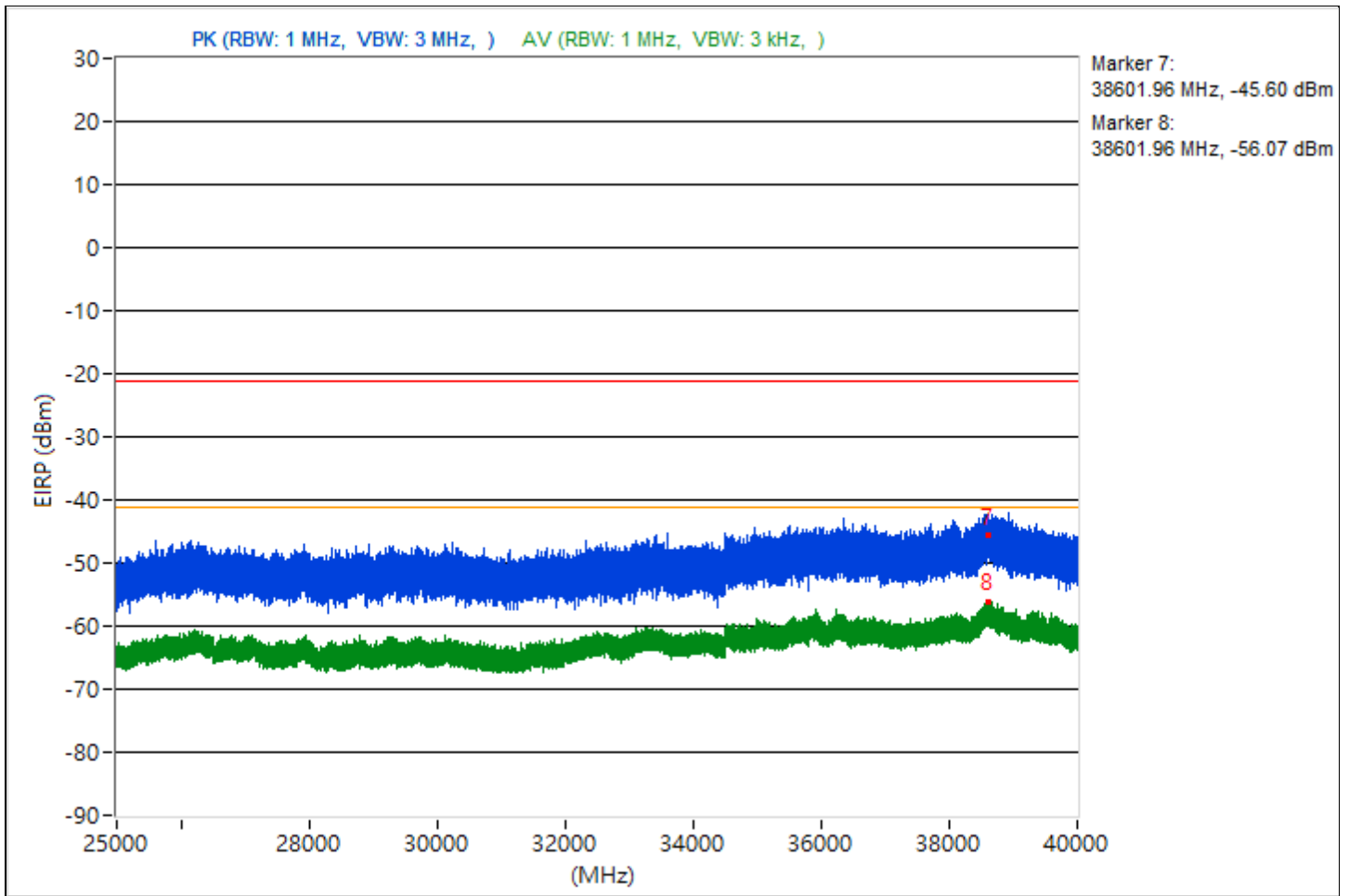
Test Mode	3		
Frequency Range	1 GHz ~ 40 GHz	Environmental Conditions	25°C, 75% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	#14523.73	50.84 PK	74	-23.16	-54.76	-56.05	7.93	-44.42
2	#14523.73	40.66 AV	54	-13.34	-67.04	-64.42	7.93	-54.6
3	#21801.8	53.86 PK	74	-20.14	-50.98	-54.31	7.93	-41.4
4	#21801.8	41.79 AV	54	-12.21	-63.43	-65.67	7.93	-53.47
5	#24080	52.83 PK	74	-21.17	-55.91	-51.77	7.93	-42.43
6	#24080	42.26 AV	54	-11.74	-62.88	-65.34	7.93	-53
7	38601.96	49.66 PK	74	-24.34	-56.21	-56.89	7.93	-45.6
8	38601.96	39.19 AV	54	-14.81	-66.24	-67.95	7.93	-56.07

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.



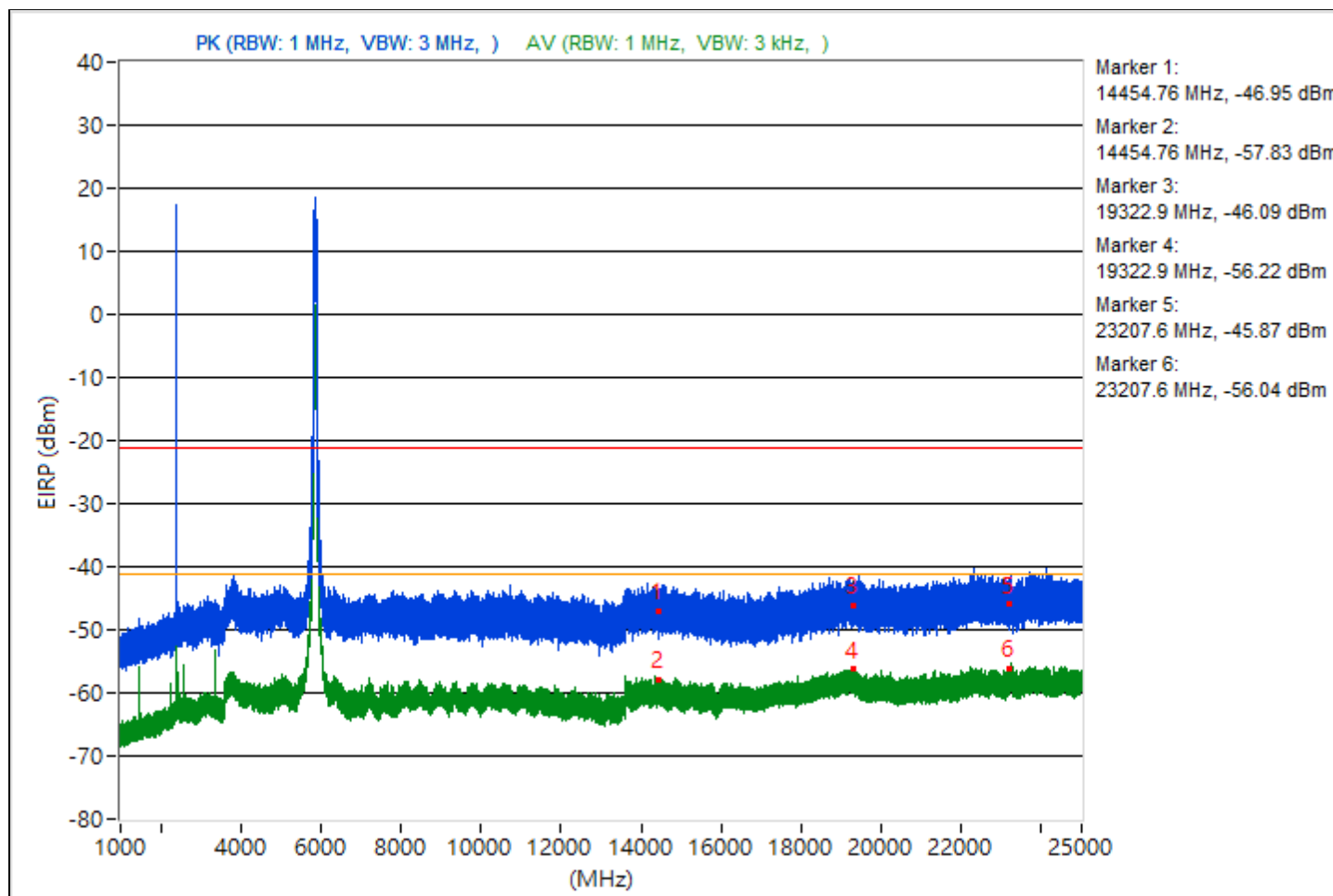


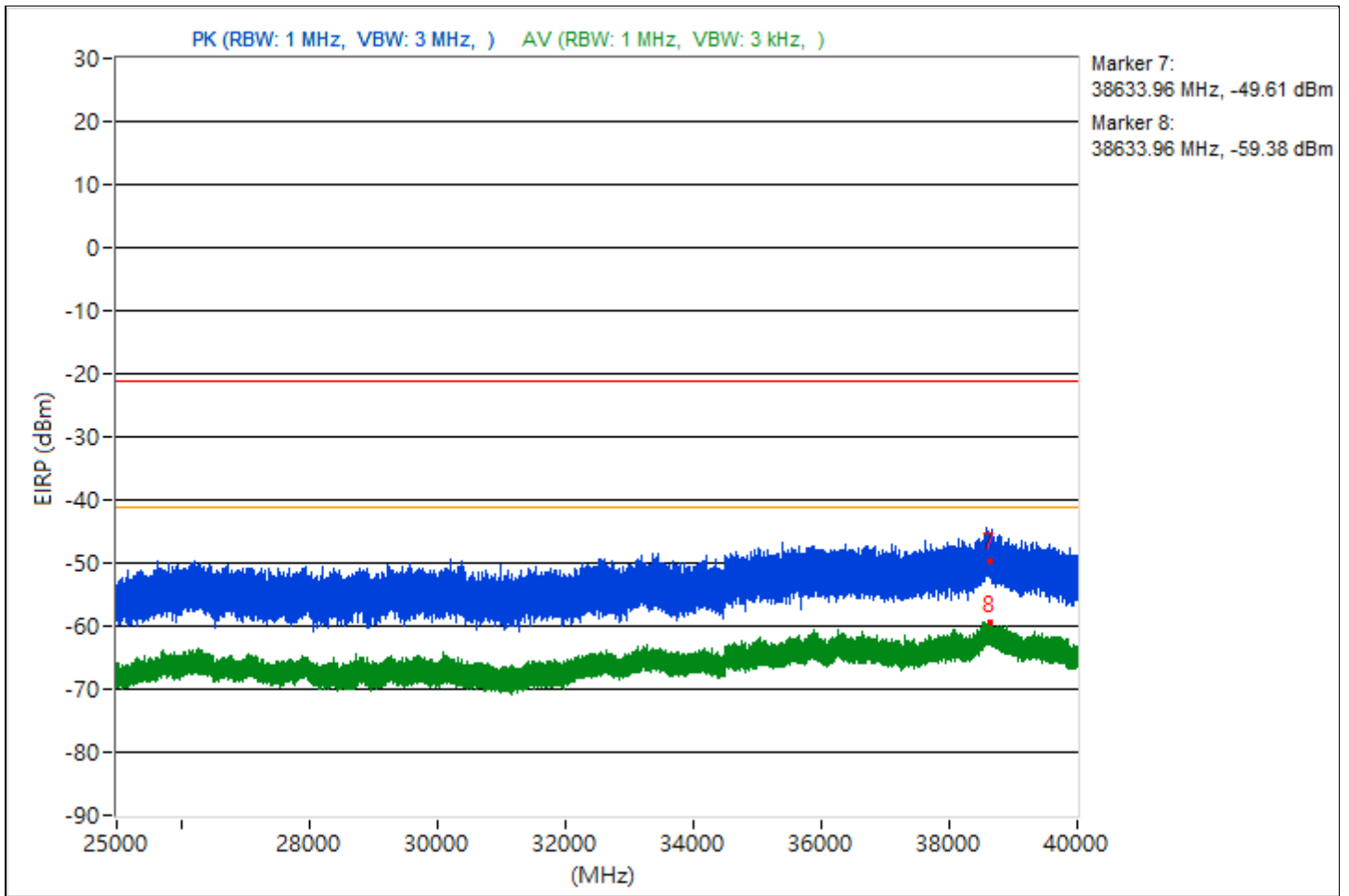
Test Mode	4		
Frequency Range	1 GHz ~ 40 GHz	Environmental Conditions	25°C, 75% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	#14454.76	48.31 PK	74	-25.69	-55.35	-54.46	4.92	-46.95
2	#14454.76	37.43 AV	54	-16.57	-67.57	-64.49	4.92	-57.83
3	19322.9	49.17 PK	74	-24.83	-55.66	-52.83	4.92	-46.09
4	19322.9	39.04 AV	54	-14.96	-62.87	-65.97	4.92	-56.22
5	#23207.6	49.39 PK	74	-24.61	-52.23	-56.27	4.92	-45.87
6	#23207.6	39.22 AV	54	-14.78	-66.12	-62.54	4.92	-56.04
7	38633.96	45.65 PK	74	-28.35	-56.73	-58.54	4.92	-49.61
8	38633.96	35.88 AV	54	-18.12	-65.94	-69.34	4.92	-59.38

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.



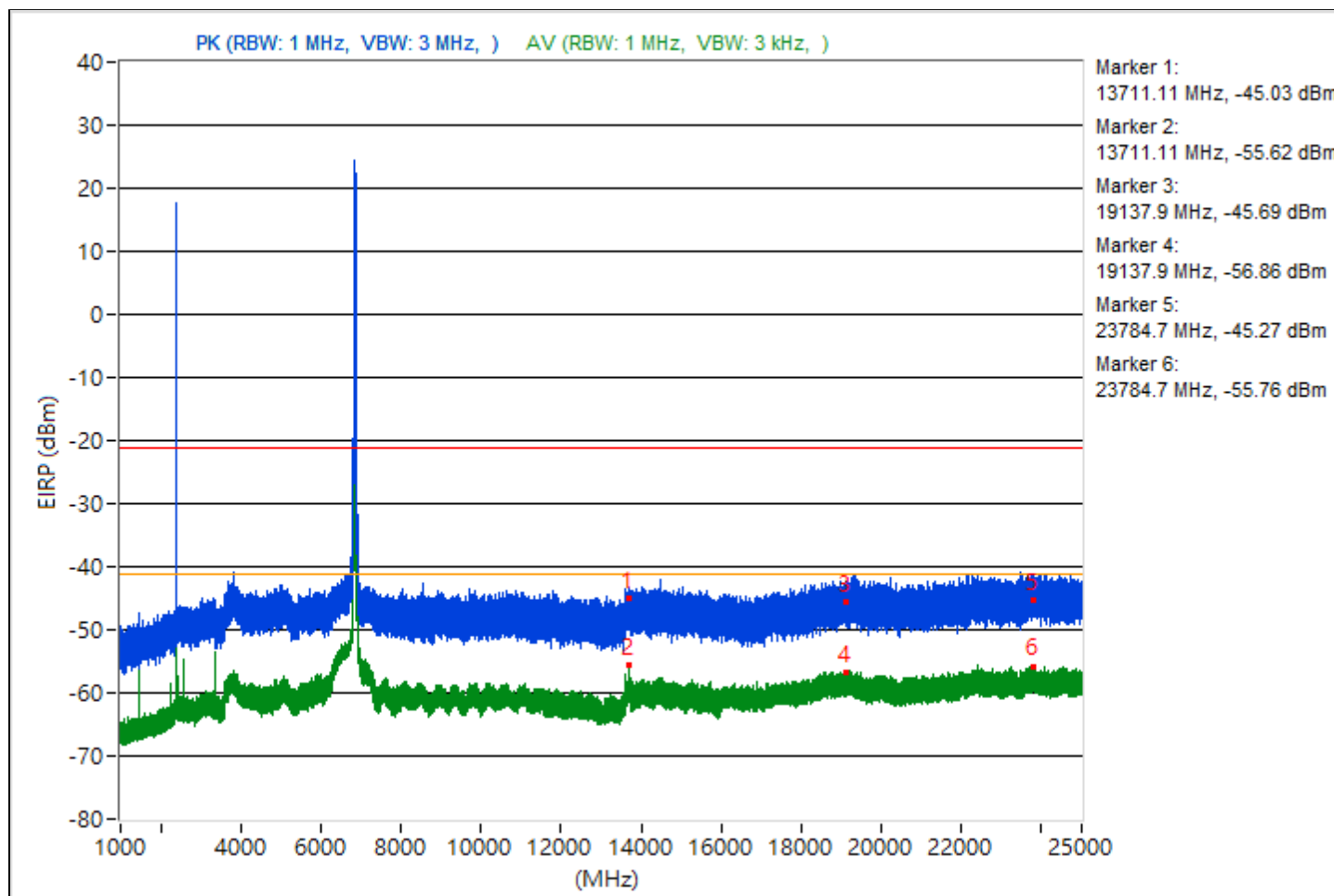


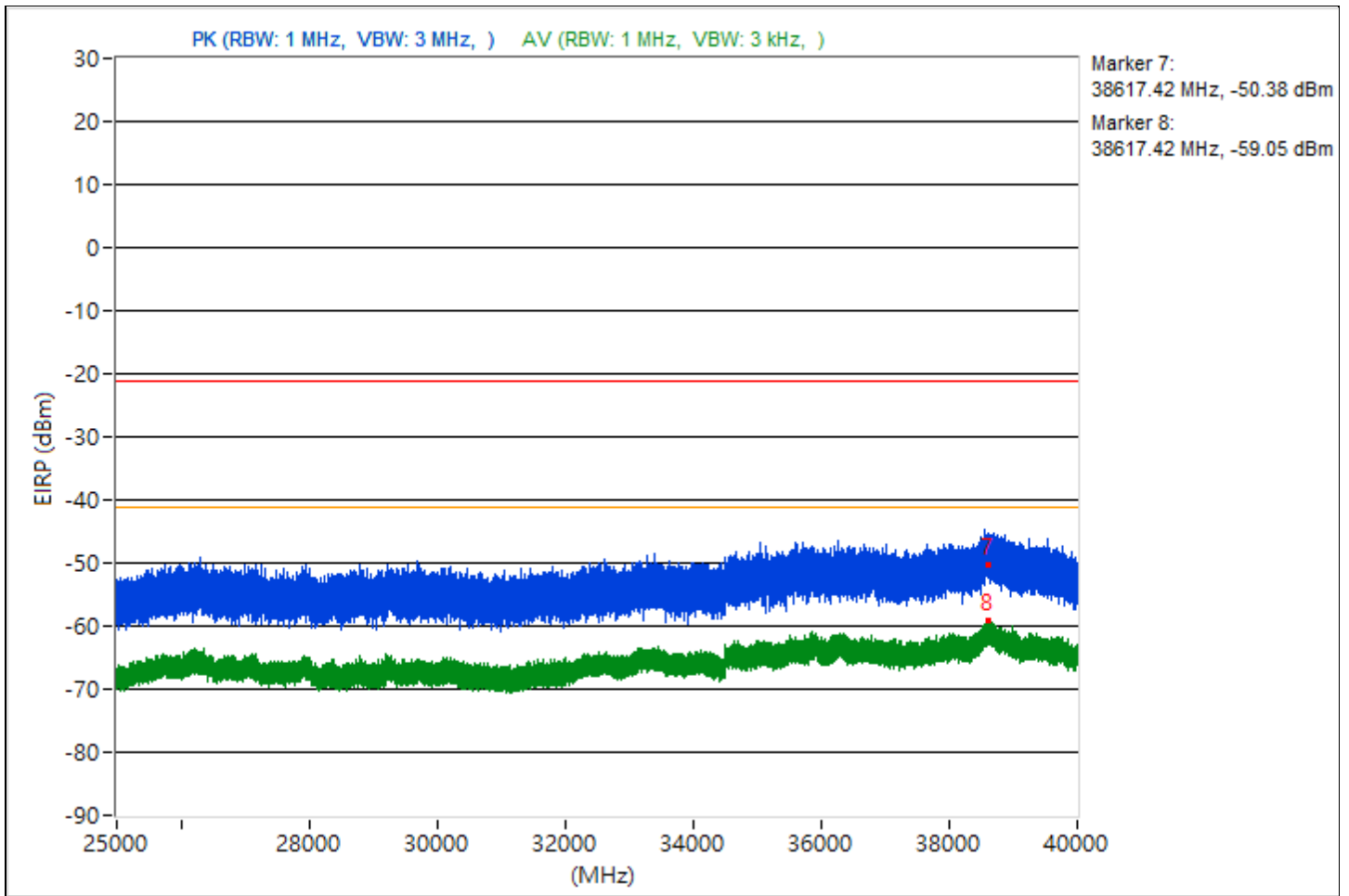
Test Mode	5		
Frequency Range	1 GHz ~ 40 GHz	Environmental Conditions	25°C, 75% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	#13711.11	50.23 PK	74	-23.77	-52.48	-53.49	4.92	-45.03
2	#13711.11	39.64 AV	54	-14.36	-63.01	-64.17	4.92	-55.62
3	19137.9	49.57 PK	74	-24.43	-54.74	-52.74	4.92	-45.69
4	19137.9	38.4 AV	54	-15.6	-66.95	-63.35	4.92	-56.86
5	23784.7	49.99 PK	74	-24.01	-53.31	-53.09	4.92	-45.27
6	23784.7	39.5 AV	54	-14.5	-62.4	-65.52	4.92	-55.76
7	38617.42	44.88 PK	74	-29.12	-59.16	-57.6	4.92	-50.38
8	38617.42	36.21 AV	54	-17.79	-67.73	-66.34	4.92	-59.05

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.



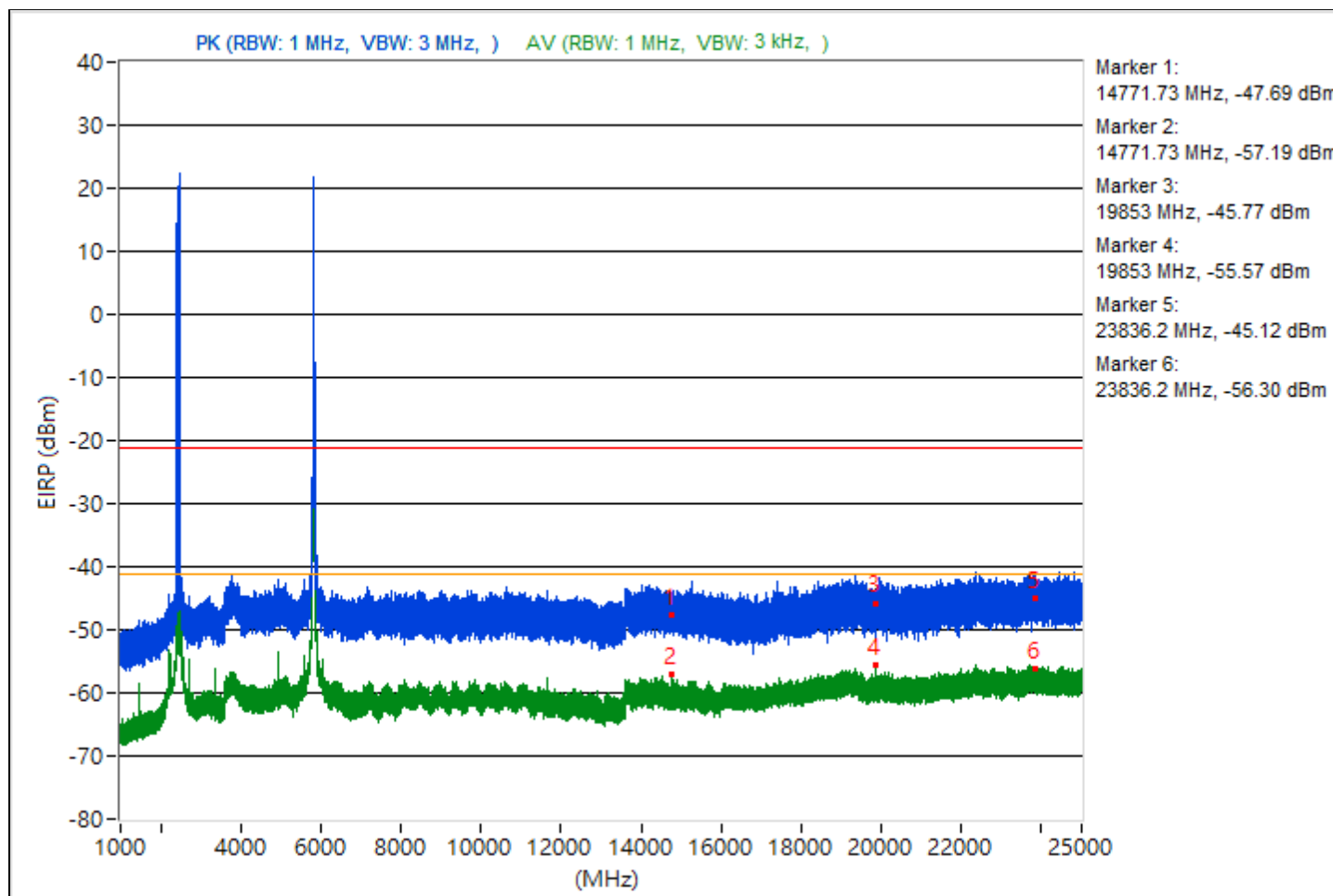


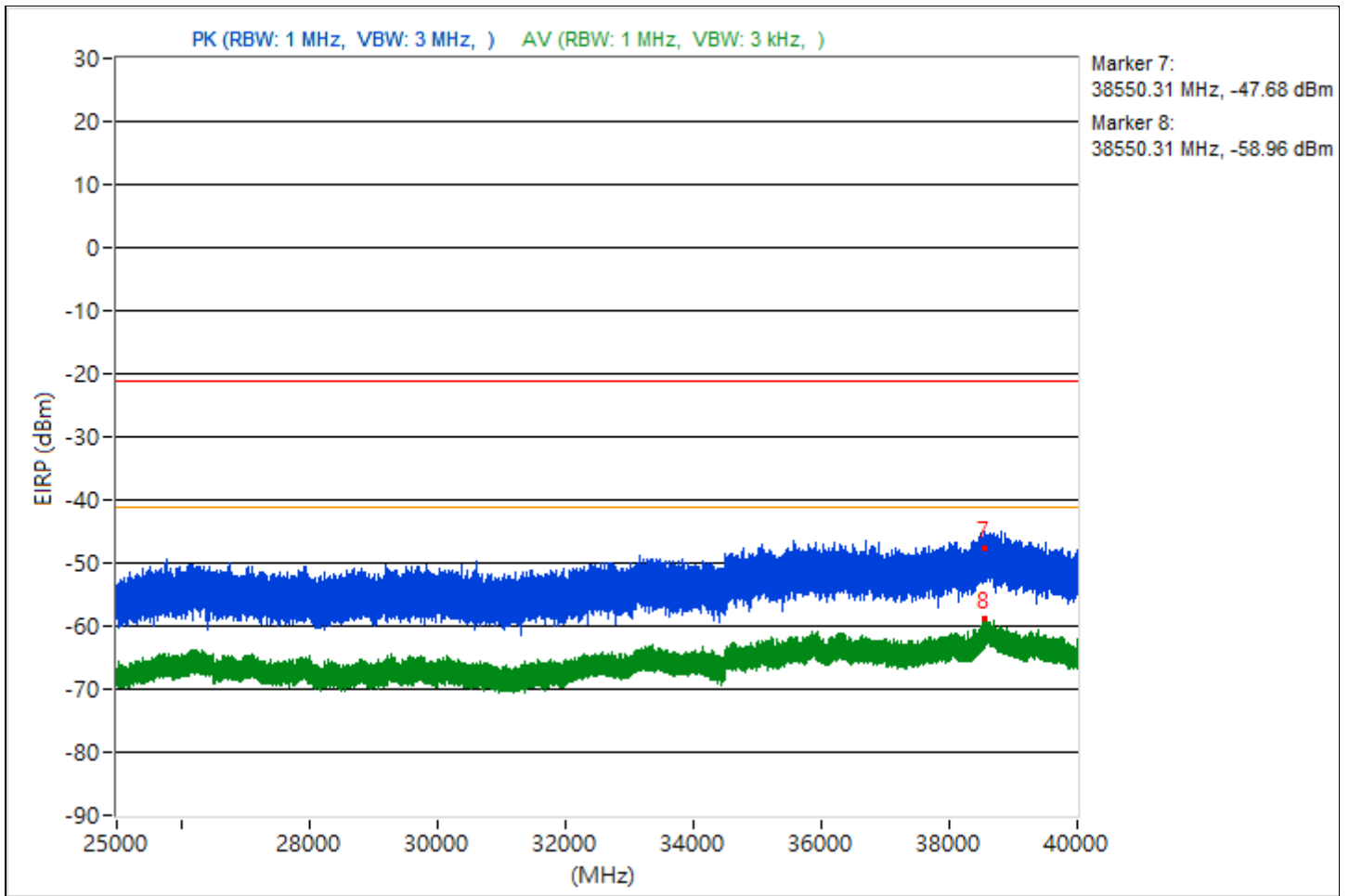
Test Mode	6		
Frequency Range	1 GHz ~ 40 GHz	Environmental Conditions	25°C, 75% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	#14771.73	47.57 PK	74	-26.43	-54.79	-56.64	4.92	-47.69
2	#14771.73	38.07 AV	54	-15.93	-66.44	-64.11	4.92	-57.19
3	19853	49.49 PK	74	-24.51	-53.57	-53.84	4.92	-45.77
4	19853	39.69 AV	54	-14.31	-64.32	-62.8	4.92	-55.57
5	23836.2	50.14 PK	74	-23.86	-53.37	-52.76	4.92	-45.12
6	23836.2	38.96 AV	54	-15.04	-66.77	-62.64	4.92	-56.3
7	#38550.31	47.58 PK	74	-26.42	-55.35	-55.88	4.92	-47.68
8	#38550.31	36.3 AV	54	-17.7	-68.32	-65.82	4.92	-58.96

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.



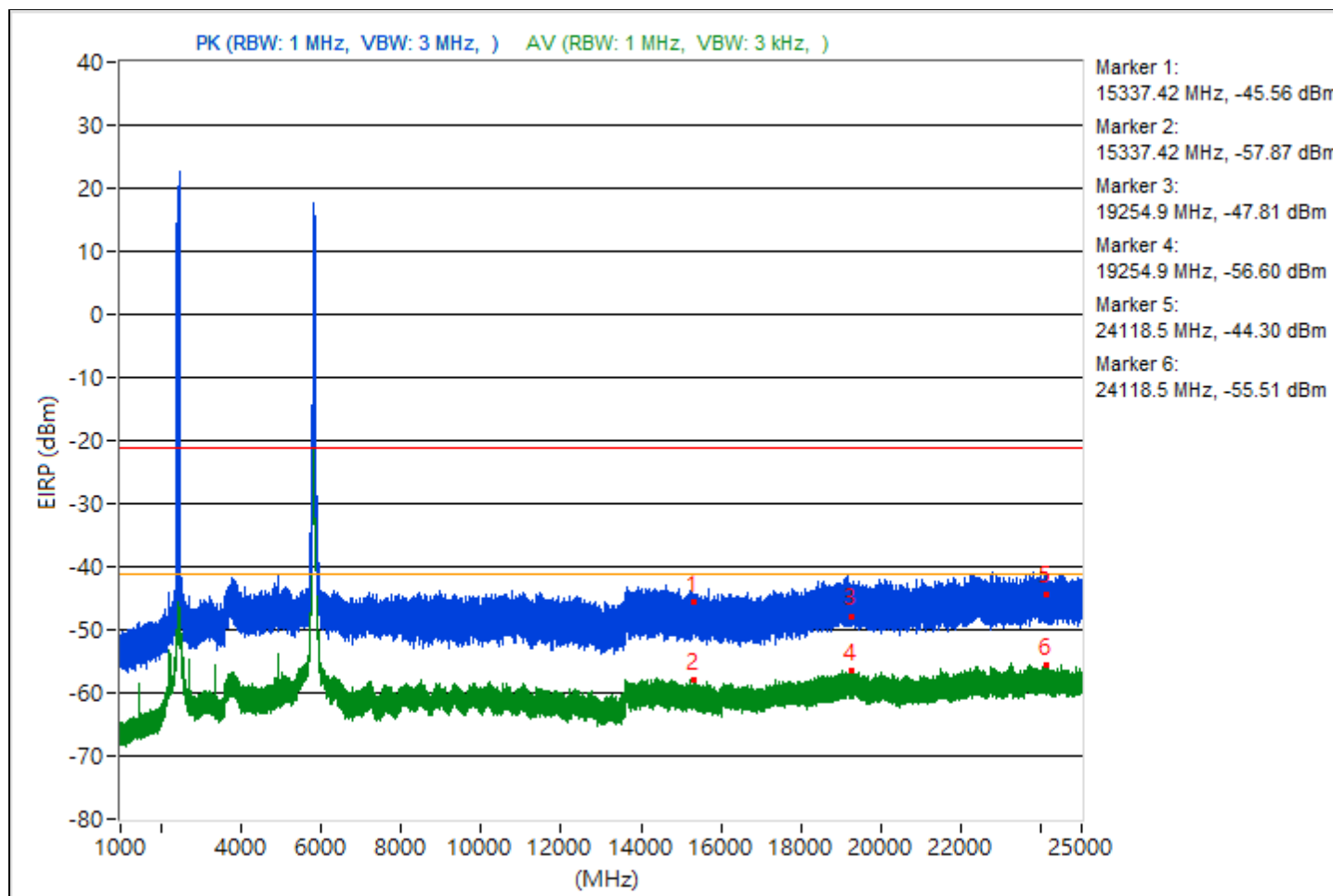


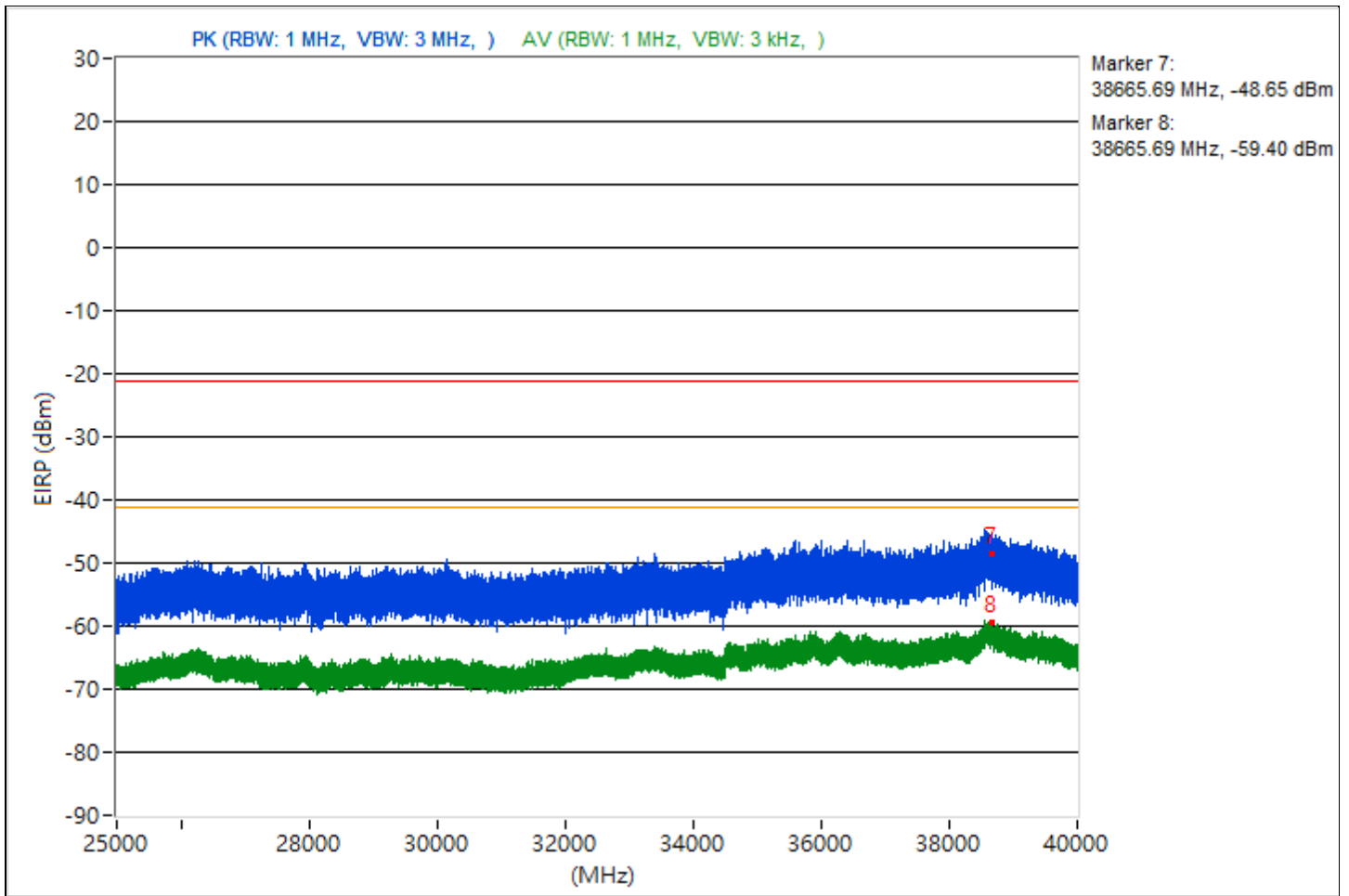
Test Mode	7		
Frequency Range	1 GHz ~ 40 GHz	Environmental Conditions	25°C, 75% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	#15337.42	49.7 PK	74	-24.3	-53.17	-53.84	4.92	-45.56
2	#15337.42	37.39 AV	54	-16.61	-68.35	-64.21	4.92	-57.87
3	19254.9	47.45 PK	74	-26.55	-55.55	-55.94	4.92	-47.81
4	19254.9	38.66 AV	54	-15.34	-66.07	-63.39	4.92	-56.6
5	#24118.5	50.96 PK	74	-23.04	-53.68	-51.15	4.92	-44.3
6	#24118.5	39.75 AV	54	-14.25	-64.59	-62.54	4.92	-55.51
7	38665.69	46.61 PK	74	-27.39	-57.27	-55.99	4.92	-48.65
8	38665.69	35.86 AV	54	-18.14	-65.74	-69.88	4.92	-59.4

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.



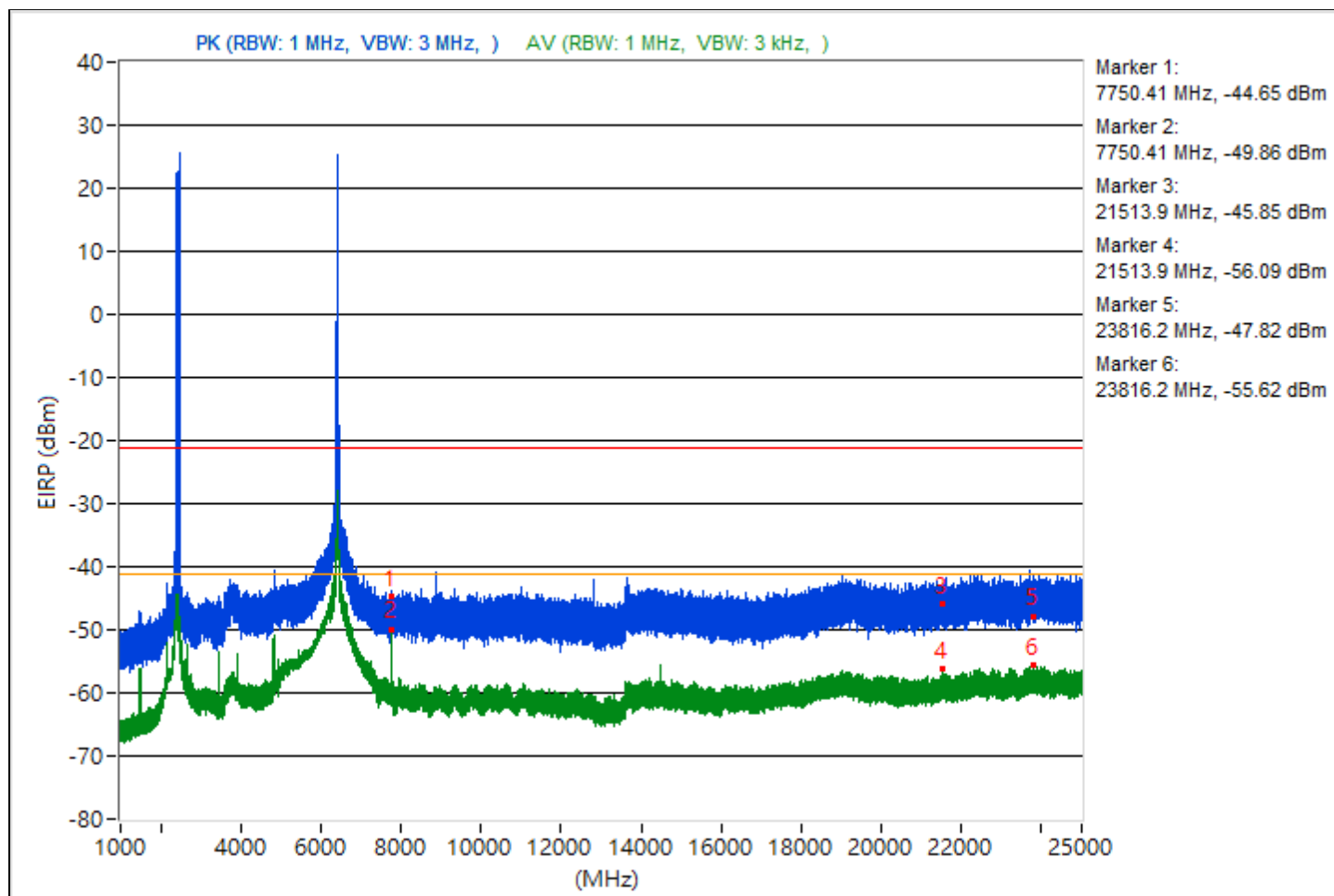


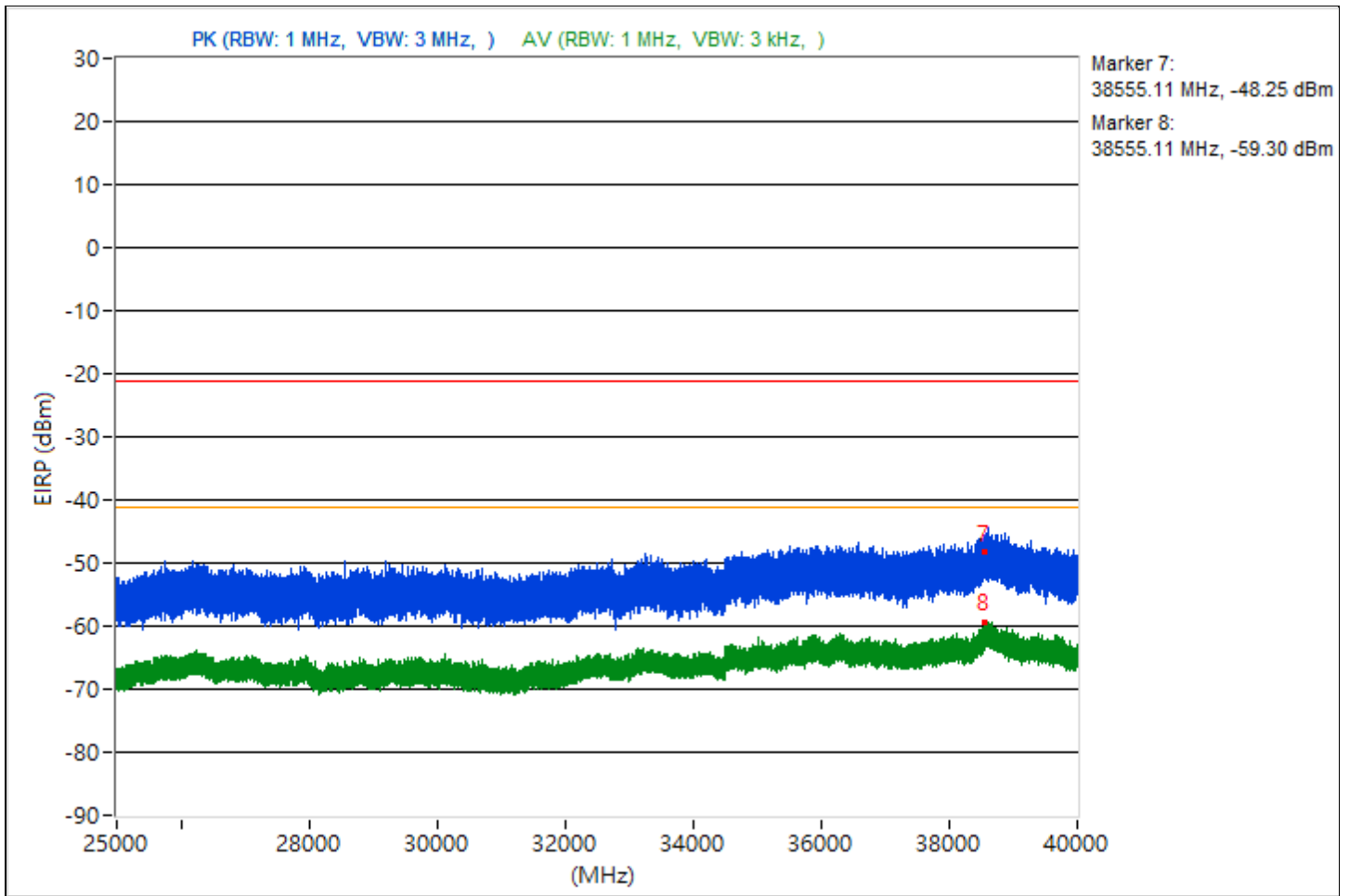
Test Mode	8		
Frequency Range	1 GHz ~ 40 GHz	Environmental Conditions	25°C, 75% RH
Tested By	Henry Hsu		

Conducted Unwanted Emissions								
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Raw Value Chain 1 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	#7750.41	50.61 PK	74	-23.39	-50.81	-55.65	4.92	-44.65
2	#7750.41	45.4 AV	54	-8.6	-54.99	-67.99	4.92	-49.86
3	#21513.9	49.41 PK	74	-24.59	-52.96	-54.8	4.92	-45.85
4	#21513.9	39.17 AV	54	-14.83	-63.57	-64.52	4.92	-56.09
5	23816.2	47.44 PK	74	-26.56	-55.8	-55.7	4.92	-47.82
6	23816.2	39.64 AV	54	-14.36	-62.43	-65.06	4.92	-55.62
7	#38555.11	47.01 PK	74	-26.99	-54.92	-57.96	4.92	-48.25
8	#38555.11	35.96 AV	54	-18.04	-67.88	-66.66	4.92	-59.3

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.





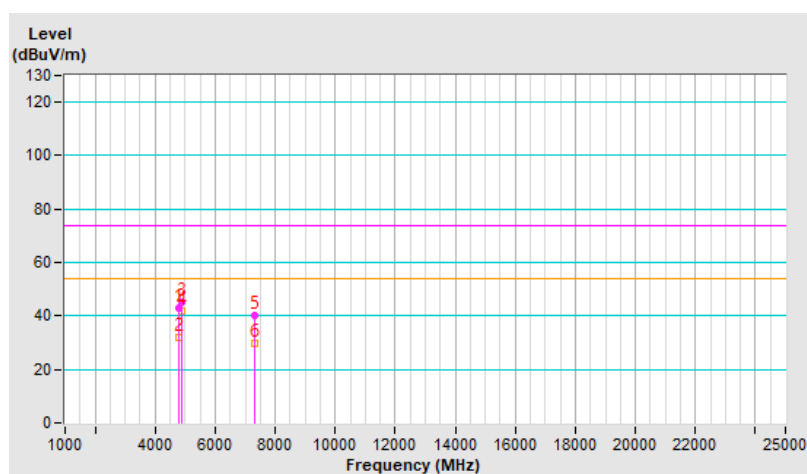
Mode B

Test Mode	1		
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 (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	42.8 PK	74.0	-31.2	1.41 H	116	41.7	1.1
2	4804	31.9 AV	54.0	-22.1	1.41 H	116	30.8	1.1
3	4874	45.2 PK	74.0	-28.8	1.01 H	295	44.3	0.9
4	4874	41.6 AV	54.0	-12.4	1.01 H	295	40.7	0.9
5	7311	40.3 PK	74.0	-33.7	1.09 H	230	32.9	7.4
6	7311	29.8 AV	54.0	-24.2	1.09 H	230	22.4	7.4

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.

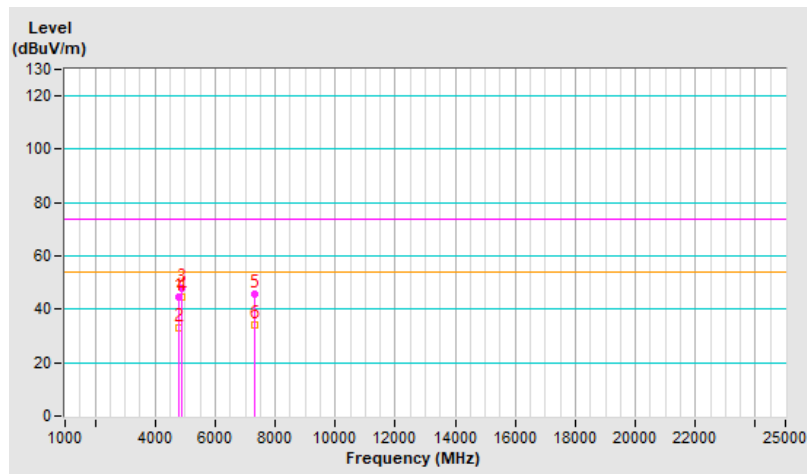


Test Mode	1		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	44.6 PK	74.0	-29.4	1.32 V	198	43.5	1.1
2	4804	33.2 AV	54.0	-20.8	1.32 V	198	32.1	1.1
3	4874	47.7 PK	74.0	-26.3	2.59 V	318	46.8	0.9
4	4874	44.8 AV	54.0	-9.2	2.59 V	318	43.9	0.9
5	7311	45.7 PK	74.0	-28.3	1.19 V	318	38.3	7.4
6	7311	34.1 AV	54.0	-19.9	1.19 V	318	26.7	7.4

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.

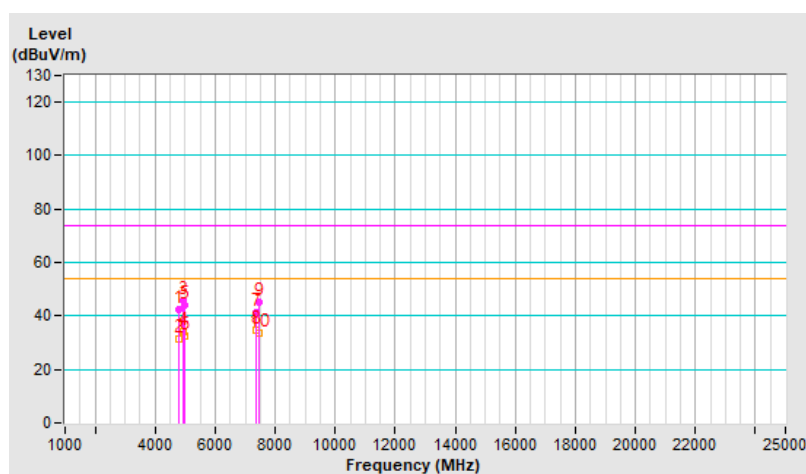


Test Mode	2		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	42.4 PK	74.0	-31.6	1.41 H	130	41.3	1.1
2	4804	31.5 AV	54.0	-22.5	1.41 H	130	30.4	1.1
3	4924	45.8 PK	74.0	-28.2	1.02 H	273	44.7	1.1
4	4924	33.9 AV	54.0	-20.1	1.02 H	273	32.8	1.1
5	4960	43.9 PK	74.0	-30.1	1.59 H	176	42.7	1.2
6	4960	32.7 AV	54.0	-21.3	1.59 H	176	31.5	1.2
7	7386	41.5 PK	74.0	-32.5	1.29 H	280	34.1	7.4
8	7386	34.6 AV	54.0	-19.4	1.29 H	280	27.2	7.4
9	7440	45.3 PK	74.0	-28.7	1.71 H	203	37.8	7.5
10	7440	33.4 AV	54.0	-20.6	1.71 H	203	25.9	7.5

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.

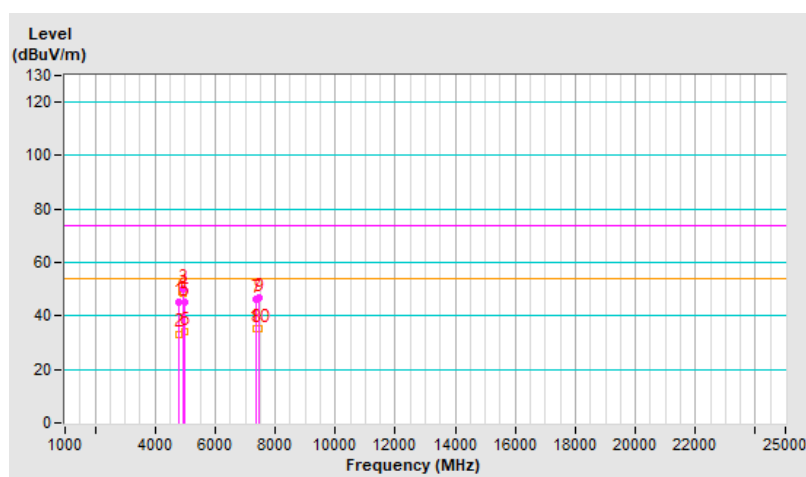


Test Mode	2		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	44.9 PK	74.0	-29.1	1.30 V	192	43.8	1.1
2	4804	33.3 AV	54.0	-20.7	1.30 V	192	32.2	1.1
3	4924	49.9 PK	74.0	-24.1	3.69 V	325	48.8	1.1
4	4924	48.3 AV	54.0	-5.7	3.69 V	325	47.2	1.1
5	4960	45.3 PK	74.0	-28.7	1.71 V	232	44.1	1.2
6	4960	34.2 AV	54.0	-19.8	1.71 V	232	33.0	1.2
7	7386	46.4 PK	74.0	-27.6	2.04 V	285	39.0	7.4
8	7386	35.1 AV	54.0	-18.9	2.04 V	285	27.7	7.4
9	7440	46.8 PK	74.0	-27.2	1.92 V	268	39.3	7.5
10	7440	35.3 AV	54.0	-18.7	1.92 V	268	27.8	7.5

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.

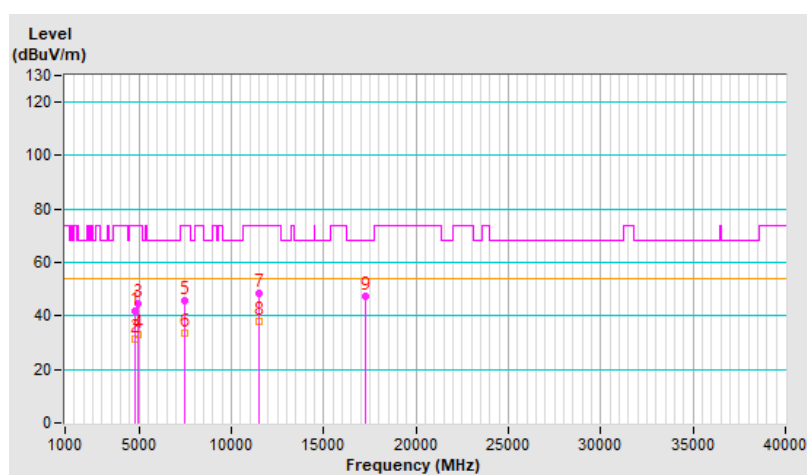


Test Mode	3		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	42.0 PK	74.0	-32.0	1.42 H	129	40.9	1.1
2	4804	31.3 AV	54.0	-22.7	1.42 H	129	30.2	1.1
3	4960	44.5 PK	74.0	-29.5	1.56 H	177	43.3	1.2
4	4960	33.1 AV	54.0	-20.9	1.56 H	177	31.9	1.2
5	7440	45.5 PK	74.0	-28.5	1.77 H	188	38.0	7.5
6	7440	33.6 AV	54.0	-20.4	1.77 H	188	26.1	7.5
7	11490	48.4 PK	74.0	-25.6	1.49 H	323	36.1	12.3
8	11490	37.9 AV	54.0	-16.1	1.49 H	323	25.6	12.3
9	#17235	47.1 PK	68.2	-21.1	2.21 H	140	29.9	17.2

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.
5. " # ": The radiated frequency is out of the restricted band.

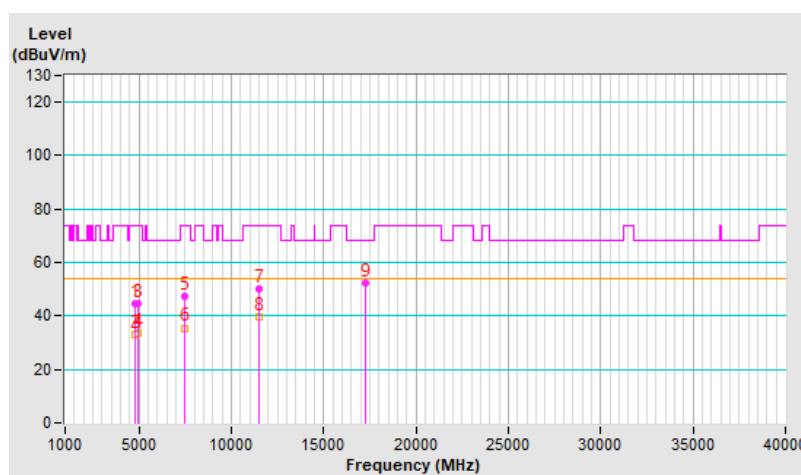


Test Mode	3		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	44.6 PK	74.0	-29.4	1.35 V	199	43.5	1.1
2	4804	33.1 AV	54.0	-20.9	1.35 V	199	32.0	1.1
3	4960	44.7 PK	74.0	-29.3	1.72 V	220	43.5	1.2
4	4960	33.7 AV	54.0	-20.3	1.72 V	220	32.5	1.2
5	7440	47.2 PK	74.0	-26.8	1.97 V	284	39.7	7.5
6	7440	35.5 AV	54.0	-18.5	1.97 V	284	28.0	7.5
7	11490	50.3 PK	74.0	-23.7	1.13 V	208	38.0	12.3
8	11490	39.6 AV	54.0	-14.4	1.13 V	208	27.3	12.3
9	#17235	52.1 PK	68.2	-16.1	1.06 V	149	34.9	17.2

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.
5. " # ": The radiated frequency is out of the restricted band.

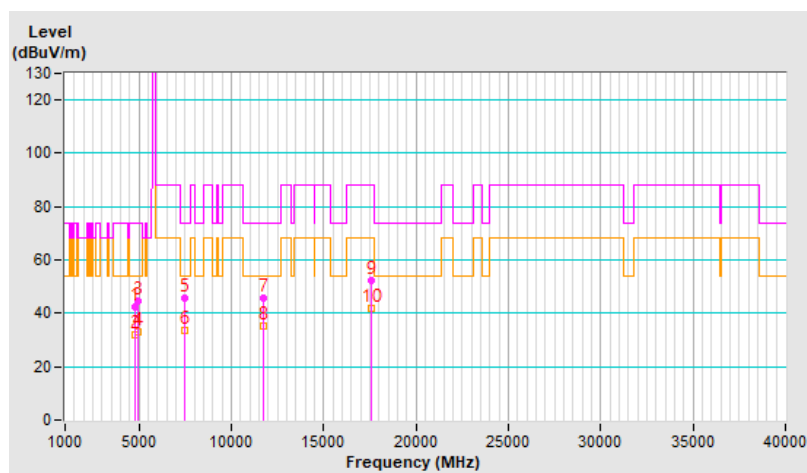


Test Mode	4		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	42.2 PK	74.0	-31.8	1.36 H	126	41.1	1.1
2	4804	31.7 AV	54.0	-22.3	1.36 H	126	30.6	1.1
3	4960	44.6 PK	74.0	-29.4	1.51 H	179	43.4	1.2
4	4960	33.1 AV	54.0	-20.9	1.51 H	179	31.9	1.2
5	7440	45.6 PK	74.0	-28.4	1.81 H	179	38.1	7.5
6	7440	33.5 AV	54.0	-20.5	1.81 H	179	26.0	7.5
7	11710	45.6 PK	74.0	-28.4	1.93 H	111	33.3	12.3
8	11710	35.1 AV	54.0	-18.9	1.93 H	111	22.8	12.3
9	#17565	52.4 PK	88.2	-35.8	1.57 H	278	32.3	20.1
10	#17565	41.6 AV	68.2	-26.6	1.57 H	278	21.5	20.1

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.
5. " # ": The radiated frequency is out of the restricted band.

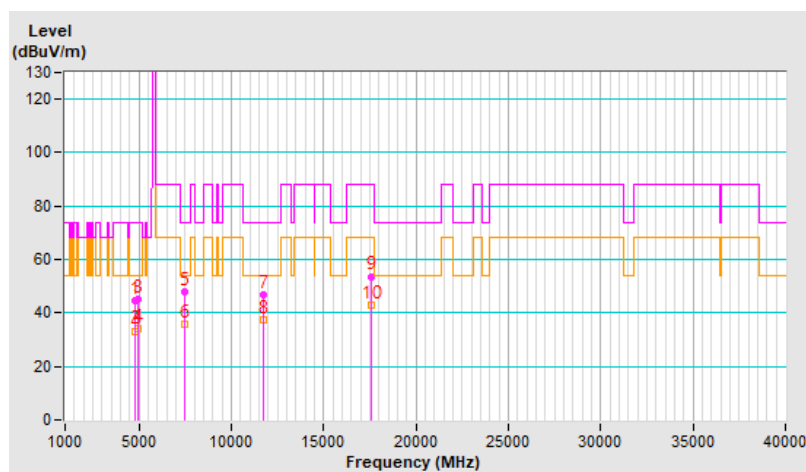


Test Mode	4		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	44.8 PK	74.0	-29.2	1.32 V	212	43.7	1.1
2	4804	33.3 AV	54.0	-20.7	1.32 V	212	32.2	1.1
3	4960	44.9 PK	74.0	-29.1	1.66 V	232	43.7	1.2
4	4960	34.1 AV	54.0	-19.9	1.66 V	232	32.9	1.2
5	7440	47.8 PK	74.0	-26.2	1.96 V	292	40.3	7.5
6	7440	35.9 AV	54.0	-18.1	1.96 V	292	28.4	7.5
7	11710	46.7 PK	74.0	-27.3	1.48 V	246	34.4	12.3
8	11710	37.3 AV	54.0	-16.7	1.48 V	246	25.0	12.3
9	#17565	53.7 PK	88.2	-34.5	1.56 V	226	33.6	20.1
10	#17565	43.1 AV	68.2	-25.1	1.56 V	226	23.0	20.1

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.
5. " # ": The radiated frequency is out of the restricted band.

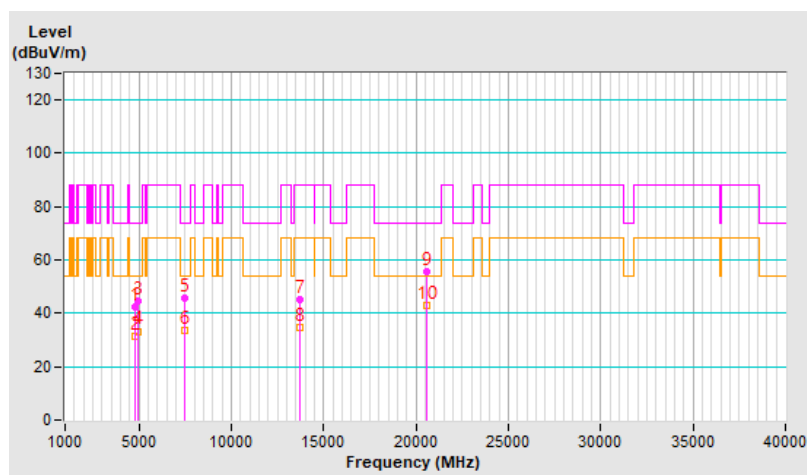


Test Mode	5		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	42.4 PK	74.0	-31.6	1.30 H	137	41.3	1.1
2	4804	31.6 AV	54.0	-22.4	1.30 H	137	30.5	1.1
3	4960	44.5 PK	74.0	-29.5	1.46 H	168	43.3	1.2
4	4960	33.3 AV	54.0	-20.7	1.46 H	168	32.1	1.2
5	7440	45.6 PK	74.0	-28.4	1.79 H	181	38.1	7.5
6	7440	33.5 AV	54.0	-20.5	1.79 H	181	26.0	7.5
7	#13710	45.3 PK	88.2	-42.9	2.09 H	233	31.2	14.1
8	#13710	34.9 AV	68.2	-33.3	2.09 H	233	20.8	14.1
9	20565	55.8 PK	74.0	-18.2	3.19 H	143	59.2	-3.4
10	20565	42.9 AV	54.0	-11.1	3.19 H	143	46.3	-3.4

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.
5. " # ": The radiated frequency is out of the restricted band.

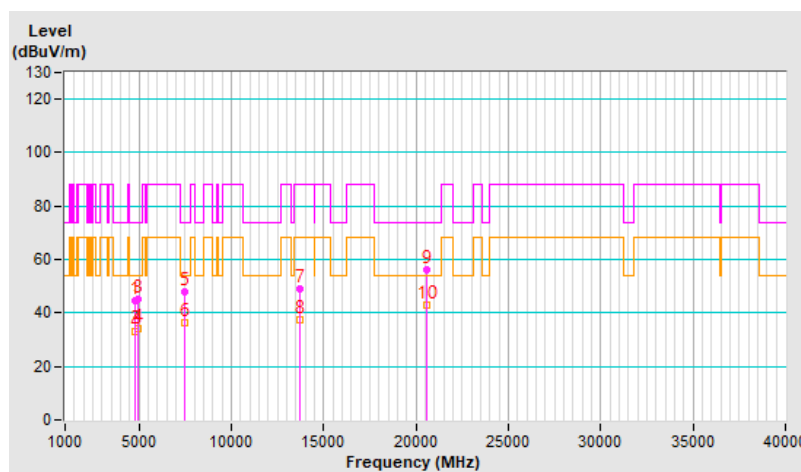


Test Mode	5		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	44.5 PK	74.0	-29.5	1.36 V	216	43.4	1.1
2	4804	33.3 AV	54.0	-20.7	1.36 V	216	32.2	1.1
3	4960	44.9 PK	74.0	-29.1	1.65 V	221	43.7	1.2
4	4960	34.3 AV	54.0	-19.7	1.65 V	221	33.1	1.2
5	7440	48.1 PK	74.0	-25.9	2.01 V	306	40.6	7.5
6	7440	36.2 AV	54.0	-17.8	2.01 V	306	28.7	7.5
7	#13710	49.2 PK	88.2	-39.0	1.17 V	183	35.1	14.1
8	#13710	37.6 AV	68.2	-30.6	1.17 V	183	23.5	14.1
9	20565	56.1 PK	74.0	-17.9	2.23 V	222	59.5	-3.4
10	20565	42.8 AV	54.0	-11.2	2.23 V	222	46.2	-3.4

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.
5. " # ": The radiated frequency is out of the restricted band.

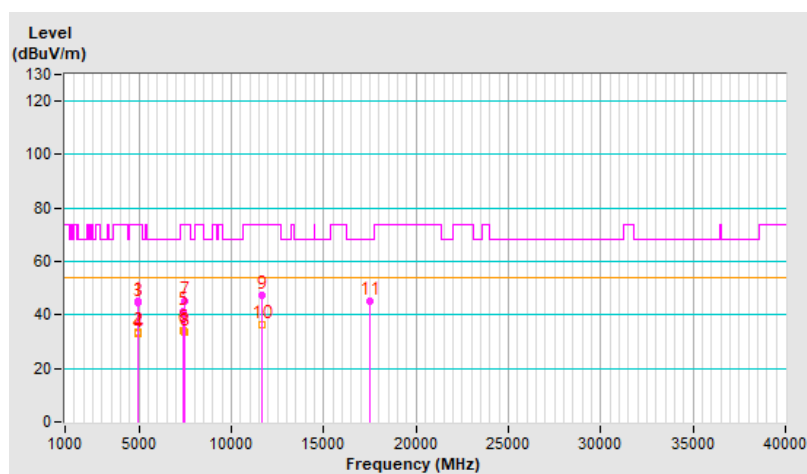


Test Mode	6		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4924	45.1 PK	74.0	-28.9	1.06 H	264	44.0	1.1
2	4924	33.5 AV	54.0	-20.5	1.06 H	264	32.4	1.1
3	4960	44.4 PK	74.0	-29.6	1.63 H	179	43.2	1.2
4	4960	33.1 AV	54.0	-20.9	1.63 H	179	31.9	1.2
5	7386	41.4 PK	74.0	-32.6	1.26 H	283	34.0	7.4
6	7386	34.4 AV	54.0	-19.6	1.26 H	283	27.0	7.4
7	7440	45.3 PK	74.0	-28.7	1.70 H	187	37.8	7.5
8	7440	33.6 AV	54.0	-20.4	1.70 H	187	26.1	7.5
9	11650	47.4 PK	74.0	-26.6	2.36 H	277	35.2	12.2
10	11650	36.5 AV	54.0	-17.5	2.36 H	277	24.3	12.2
11	#17475	45.1 PK	68.2	-23.1	2.21 H	112	25.4	19.7

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.
5. " # ": The radiated frequency is out of the restricted band.

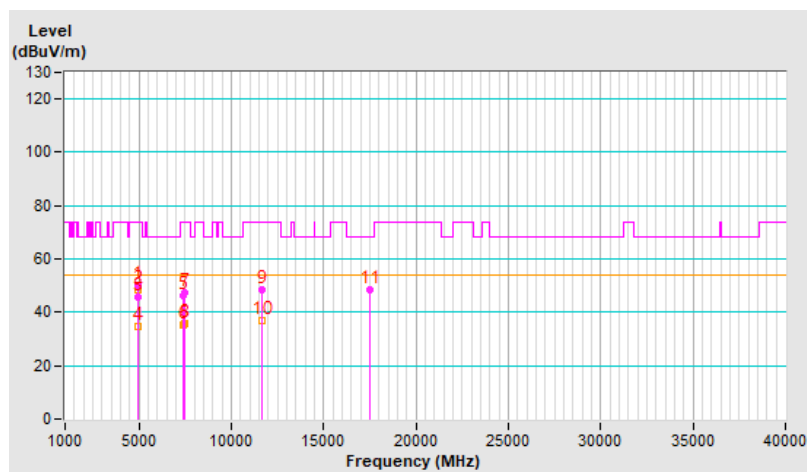


Test Mode	6		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4924	50.2 PK	74.0	-23.8	3.74 V	324	49.1	1.1
2	4924	48.4 AV	54.0	-5.6	3.74 V	324	47.3	1.1
3	4960	45.6 PK	74.0	-28.4	1.72 V	222	44.4	1.2
4	4960	34.6 AV	54.0	-19.4	1.72 V	222	33.4	1.2
5	7386	46.5 PK	74.0	-27.5	2.00 V	272	39.1	7.4
6	7386	35.4 AV	54.0	-18.6	2.00 V	272	28.0	7.4
7	7440	47.1 PK	74.0	-26.9	1.95 V	271	39.6	7.5
8	7440	35.7 AV	54.0	-18.3	1.95 V	271	28.2	7.5
9	11650	48.7 PK	74.0	-25.3	1.35 V	277	36.5	12.2
10	11650	36.8 AV	54.0	-17.2	1.35 V	277	24.6	12.2
11	#17475	48.2 PK	68.2	-20.0	2.95 V	170	28.5	19.7

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.
5. " # ": The radiated frequency is out of the restricted band.

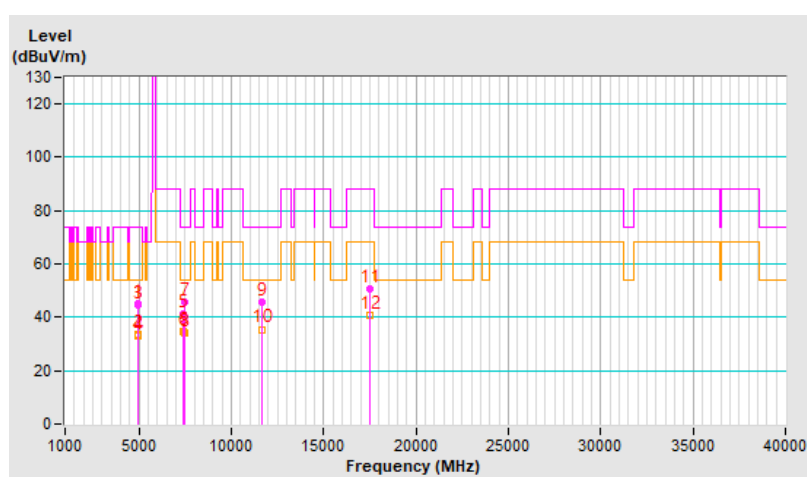


Test Mode	7		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4924	45.3 PK	74.0	-28.7	1.04 H	250	44.2	1.1
2	4924	33.8 AV	54.0	-20.2	1.04 H	250	32.7	1.1
3	4960	44.5 PK	74.0	-29.5	1.57 H	173	43.3	1.2
4	4960	33.2 AV	54.0	-20.8	1.57 H	173	32.0	1.2
5	7386	41.4 PK	74.0	-32.6	1.25 H	287	34.0	7.4
6	7386	34.6 AV	54.0	-19.4	1.25 H	287	27.2	7.4
7	7440	45.7 PK	74.0	-28.3	1.70 H	184	38.2	7.5
8	7440	33.9 AV	54.0	-20.1	1.70 H	184	26.4	7.5
9	11670	45.9 PK	74.0	-28.1	1.94 H	138	33.7	12.2
10	11670	35.5 AV	54.0	-18.5	1.94 H	138	23.3	12.2
11	#17505	50.9 PK	88.2	-37.3	1.57 H	267	30.8	20.1
12	#17505	40.8 AV	68.2	-27.4	1.57 H	267	20.7	20.1

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.
5. " # ": The radiated frequency is out of the restricted band.

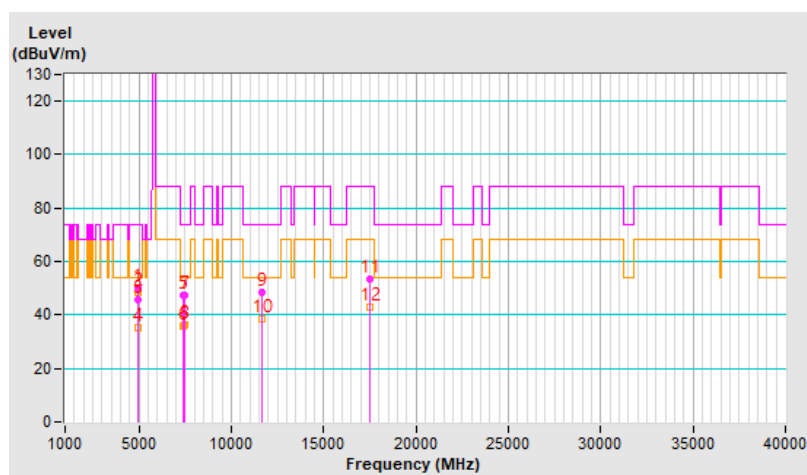


Test Mode	7		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4924	50.3 PK	74.0	-23.7	3.79 V	315	49.2	1.1
2	4924	48.6 AV	54.0	-5.4	3.79 V	315	47.5	1.1
3	4960	45.9 PK	74.0	-28.1	1.66 V	216	44.7	1.2
4	4960	35.1 AV	54.0	-18.9	1.66 V	216	33.9	1.2
5	7386	47.1 PK	74.0	-26.9	1.95 V	259	39.7	7.4
6	7386	35.7 AV	54.0	-18.3	1.95 V	259	28.3	7.4
7	7440	47.5 PK	74.0	-26.5	1.90 V	266	40.0	7.5
8	7440	36.2 AV	54.0	-17.8	1.90 V	266	28.7	7.5
9	11670	48.7 PK	74.0	-25.3	1.52 V	265	36.5	12.2
10	11670	38.6 AV	54.0	-15.4	1.52 V	265	26.4	12.2
11	#17505	53.2 PK	88.2	-35.0	1.46 V	206	33.1	20.1
12	#17505	42.9 AV	68.2	-25.3	1.46 V	206	22.8	20.1

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.
5. " # ": The radiated frequency is out of the restricted band.

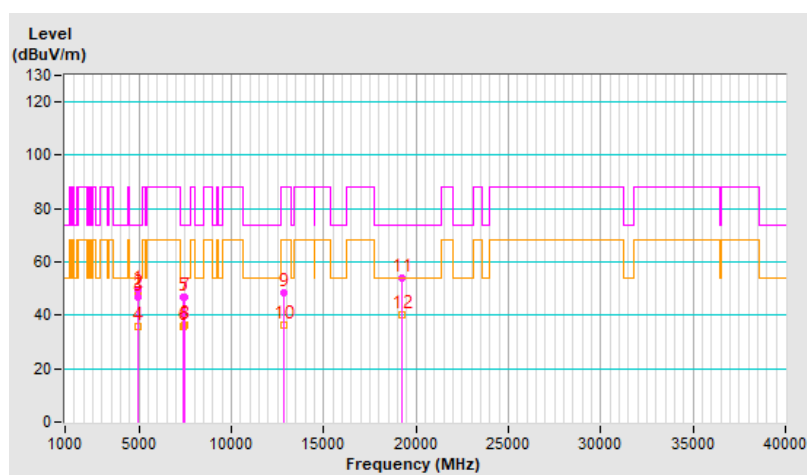


Test Mode	8		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4924	49.6 PK	74.0	-24.4	3.68 V	298	48.5	1.1
2	4924	48.0 AV	54.0	-6.0	3.68 V	298	46.9	1.1
3	4960	46.9 PK	74.0	-27.1	1.67 V	204	45.7	1.2
4	4960	36.0 AV	54.0	-18.0	1.67 V	204	34.8	1.2
5	7386	46.9 PK	74.0	-27.1	1.92 V	265	39.5	7.4
6	7386	36.0 AV	54.0	-18.0	1.92 V	265	28.6	7.4
7	7440	46.8 PK	74.0	-27.2	1.87 V	251	39.3	7.5
8	7440	36.1 AV	54.0	-17.9	1.87 V	251	28.6	7.5
9	#12830	48.3 PK	88.2	-39.9	2.23 V	133	36.4	11.9
10	#12830	36.5 AV	68.2	-31.7	2.23 V	133	24.6	11.9
11	19245	53.8 PK	74.0	-20.2	1.91 V	284	57.6	-3.8
12	19245	40.4 AV	54.0	-13.6	1.91 V	284	44.2	-3.8

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.
5. " # ": The radiated frequency is out of the restricted band.

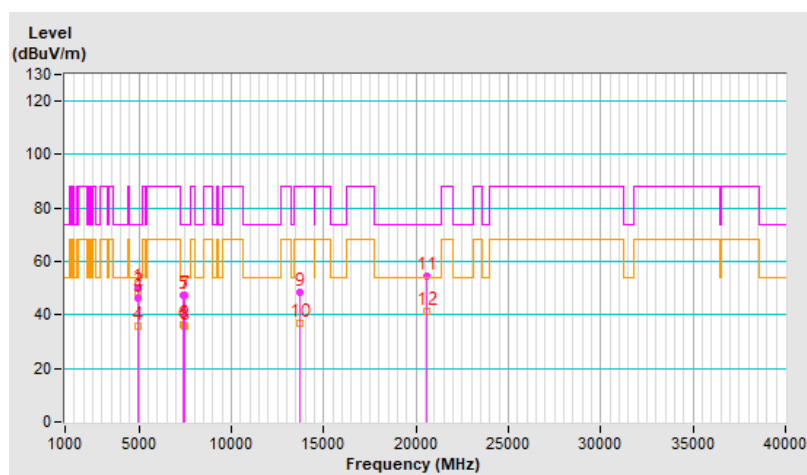


Test Mode	8		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 kHz, DET= Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	4924	50.1 PK	74.0	-23.9	3.74 V	306	49.0	1.1
2	4924	48.6 AV	54.0	-5.4	3.74 V	306	47.5	1.1
3	4960	46.2 PK	74.0	-27.8	1.72 V	207	45.0	1.2
4	4960	35.6 AV	54.0	-18.4	1.72 V	207	34.4	1.2
5	7386	47.6 PK	74.0	-26.4	1.92 V	264	40.2	7.4
6	7386	36.1 AV	54.0	-17.9	1.92 V	264	28.7	7.4
7	7440	47.2 PK	74.0	-26.8	1.85 V	255	39.7	7.5
8	7440	35.8 AV	54.0	-18.2	1.85 V	255	28.3	7.5
9	#13710	48.6 PK	88.2	-39.6	2.25 V	130	34.5	14.1
10	#13710	36.9 AV	68.2	-31.3	2.25 V	130	22.8	14.1
11	20565	54.4 PK	74.0	-19.6	1.90 V	283	57.8	-3.4
12	20565	41.5 AV	54.0	-12.5	1.90 V	283	44.9	-3.4

Remarks:

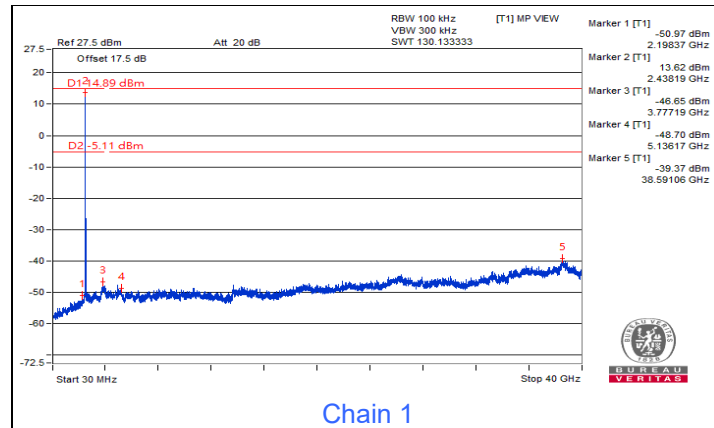
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



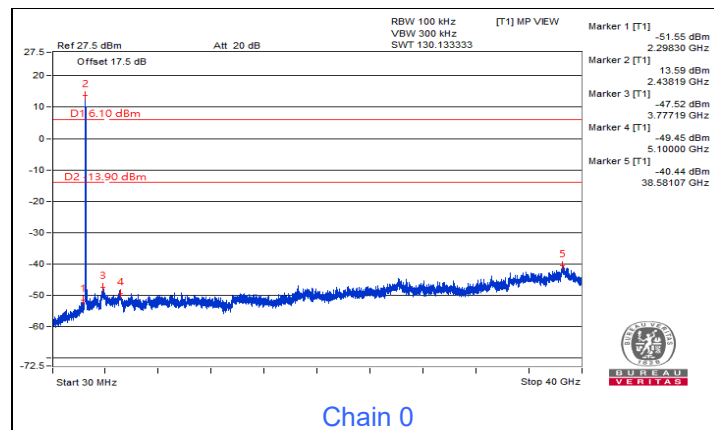
7.3 Conducted Out of Band Emissions

Input Power:	120 Vac, 60 Hz (System)	Environmental Conditions:	25°C, 65% RH	Tested By:	Henry Hsu
--------------	-------------------------	---------------------------	--------------	------------	-----------

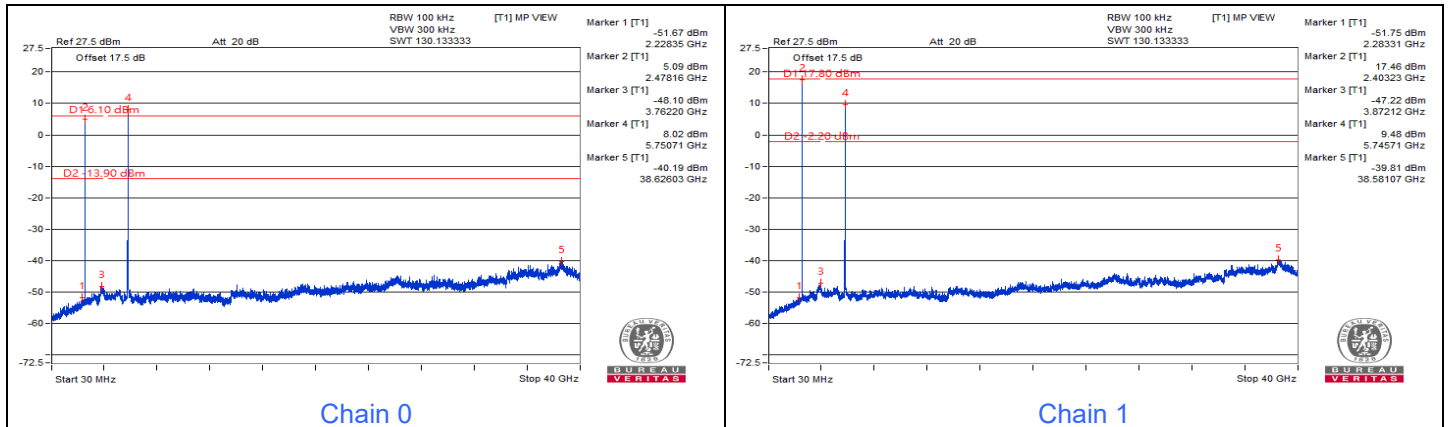
Test Mode 1



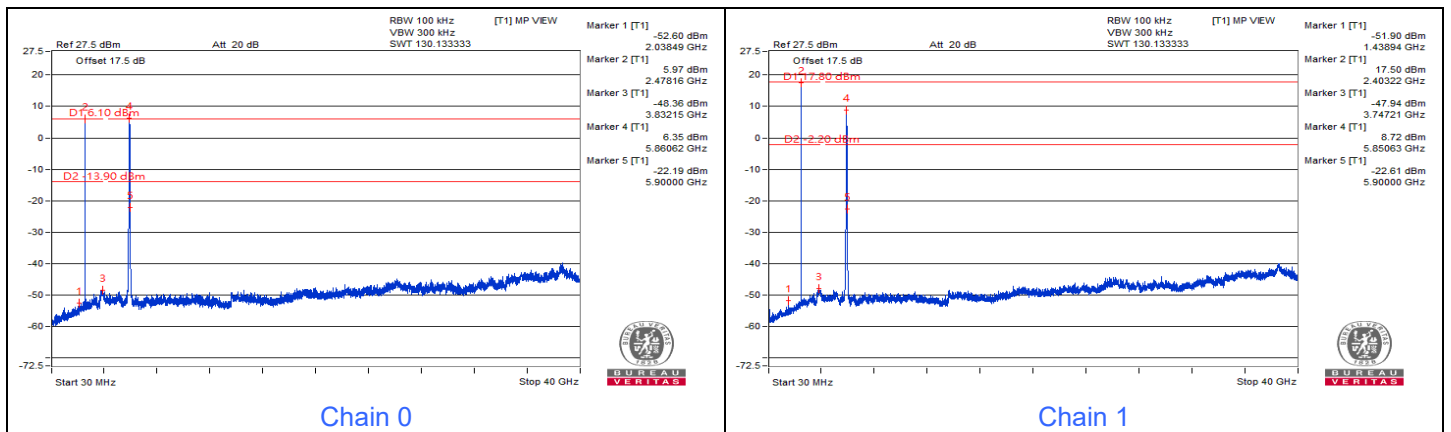
Test Mode 2



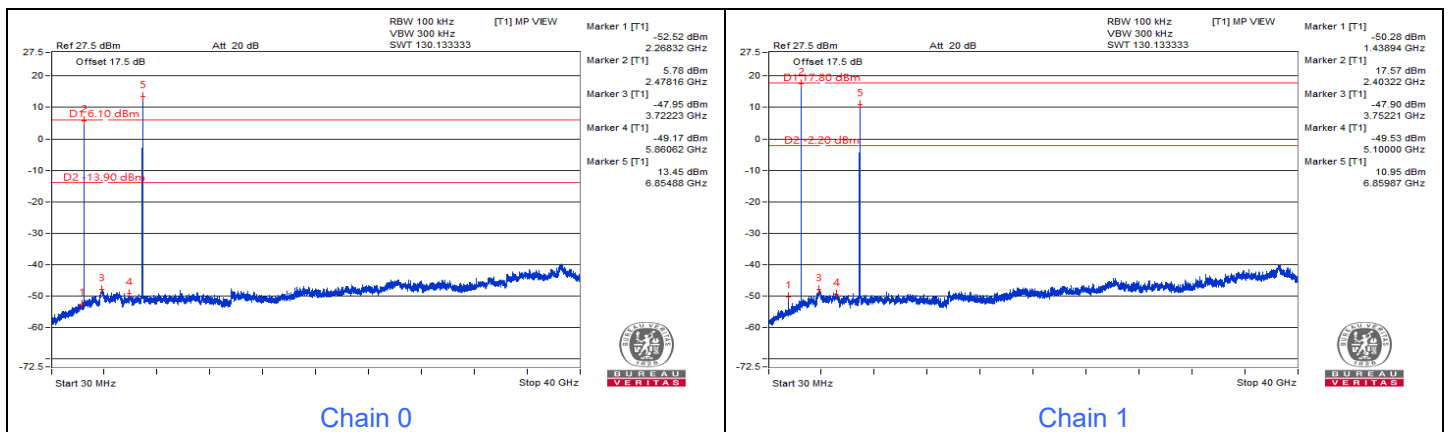
Test Mode 3



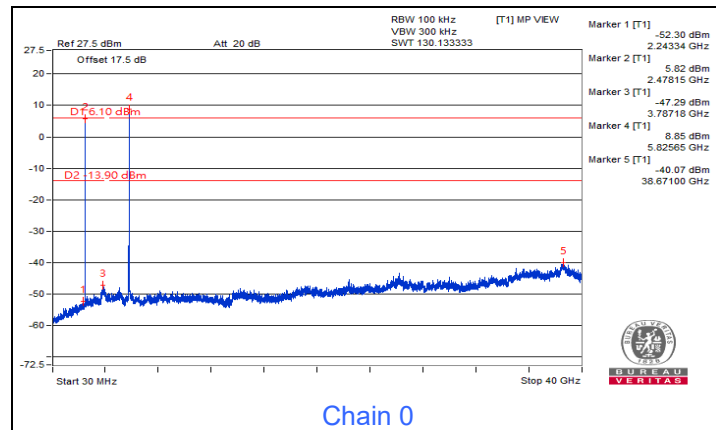
Test Mode 4



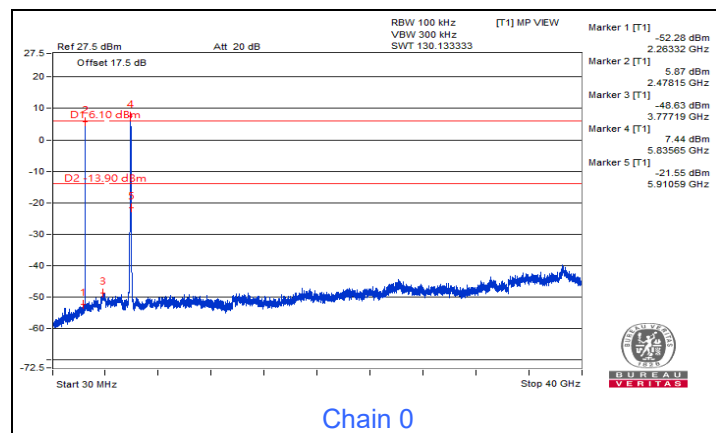
Test Mode 5



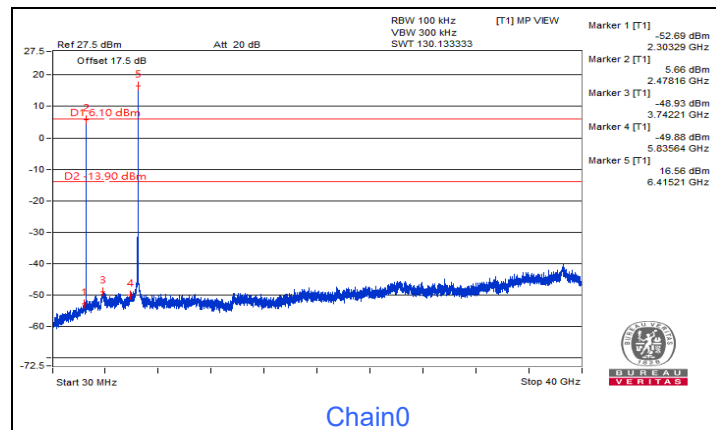
Test Mode 6



Test Mode 7



Test Mode 8



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:

Lin Kou EMC/RF Lab

Tel: 886-(0)2-26052180

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-(0)3-6668565 (SIP)

Tel: 886-(0)3-5120595 (WD)

Hwa Ya EMC/RF/Safety/SAR Lab & Wenming EMC/RF Lab

Tel: 886-(0)3-3183232

Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

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

--- END ---