

FCC Radio Test Report

FCC ID: 2AR44-VXI300

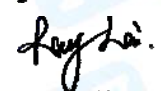
Original Grant

Report No. : TB-FCC169405
Applicant : Ventus Technologies
Equipment Under Test (EUT)
EUT Name : VXI
Model No. : VXI300W
Series Model No. : N/A
Brand Name : Ventus
Receipt Date : 2019-10-09
Test Date : 2019-10-10 to 2019-11-30
Issue Date : 2019-11-30
Standards : FCC Part 15, Subpart C 15.247
Test Method : ANSI C63.10: 2013
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above,
The EUT technically complies with the FCC and IC requirements

Test/Witness Engineer :  Jack Deng

Test/Witness Engineer :  Ivan Su

Approved& Authorized :  Ray Lai



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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Revision History

Report No.	Version	Description	Issued Date
TB-FCC169405	Rev.01	Initial issue of report	2019-11-30

1. General Information about EUT

1.1 Client Information

Applicant	:	Ventus Technologies
Address	:	10 Norden Place, Norwalk, CT 06855, USA
Manufacturer	:	Ventus Technologies
Address	:	10 Norden Place, Norwalk, CT 06855, USA

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	VXI	
Models No.	:	VXI300W	
Model Different	:	N/A	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
	:	Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40): 7 channels see note(3)
	:	RF Output Power:	802.11b:19.04dBm 802.11g: 18.17dBm 802.11n (HT20): 18.45dBm 802.11n (HT40): 17.63dBm
	:	Antenna Gain:	1.5dBi Stamp Antenna provided by the applicant.
	:	Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM,64QAM)
	:	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
	:		
Power Rating	:	DC 12V from DC Port or DC 48V from POE Port.	
Adapter 1#	:	AC Adapter(NBS30D120250VU): Input: AC 100-240V, 50/60Hz, 0.8A ; Output: DC 12V, 2.5A	
Adapter 2#	:	POE Power Supply(PIF-4800045-1KMS): Input: AC 100-240V, 50/60Hz, 0.6A ; Output: DC 48V, 0.45A	
Software Version	:	1.0	
Hardware Version	:	D	
Remark	:	The adapter and antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.	

Note:

- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 v05r02 and KDB 662911 D01 Multiple Transmitter Output v02r01.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) Channel List:

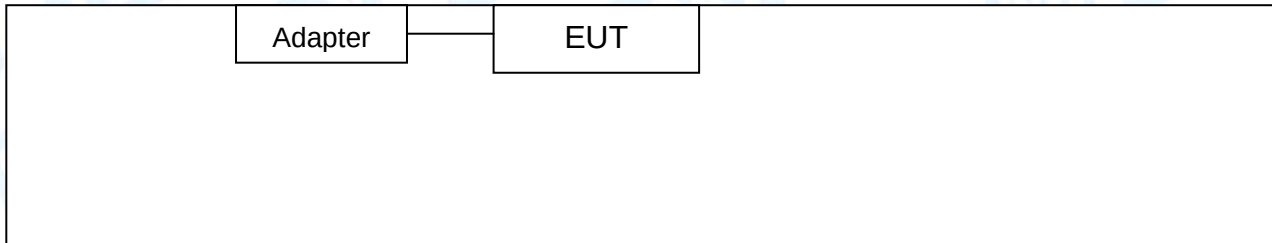
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		
Note: CH 01~CH 11 for 802.11b/g/n(HT20) CH 03~CH 09 for 802.11n(HT40)					

(4) Antenna information

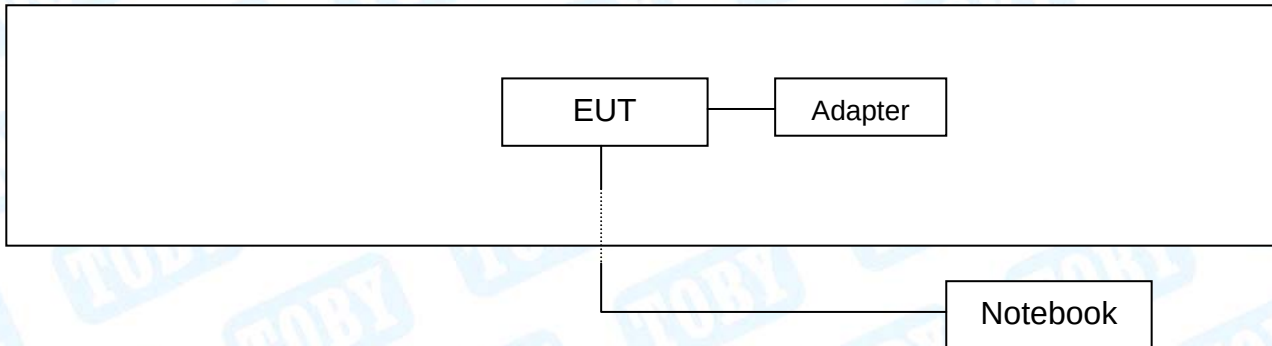
Mode		TX Antenna (s)		Remark	
802.11b		1		The worst case is ANT. 0 TX	
802.11g		1		The worst case is ANT. 0 TX	
802.11n(HT20)		3		ANT. 0+ANT. 1+ANT. 2	
802.11n(HT40)		3		ANT. 0+ANT. 1+ANT. 2	
Antenna	Brand	Model Name		Type	Antenna Gain(dBi)
ANT. 0	N/A	N/A		Stamp	1.5
ANT. 1	N/A	N/A		Stamp	1.5
ANT. 2	N/A	N/A		Stamp	1.5
Note: For MIMO mode: Directional gain=Gain(Ant.0)+Gain(Ant.1)+Gain(Ant.2)=6.27dBi in 2.4G 802.11 n(HT20/HT40) has MIMO mode.					

1.3 Block Diagram Showing the Configuration of System Tested

Conducted Test



Radiated Test



1.4 Description of Support Units

Name	Model	S/N	Manufacturer	Used “√”
Notebook	161301-CN	15987/00203076	Xiaomi	√

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test	
Final Test Mode	Description
Mode 1	Charging with TX B Mode

For Radiated Test	
Final Test Mode	Description
Mode 2	TX Mode B Mode Channel 01/06/11
Mode 3	TX Mode G Mode Channel 01/06/11
Mode 4	TX Mode N(HT20) Mode Channel 01/06/11
Mode 5	TX Mode N(HT40) Mode Channel 03/06/09

Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.
According to ANSI C63.10 standards, the measurements are performed at the highest, Middle, lowest available channels, and the worst case data rate as follows:
802.11b Mode: CCK (1 Mbps)
802.11g Mode: OFDM (6 Mbps)
802.11n (HT20) Mode: MCS 0 (6.5 Mbps)
802.11n (HT40) Mode: MCS 0 (30 Mbps)
- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a Mobile unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

During testing channel & Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software: CPT2					
Test Mode: Continuously transmitting					
Mode	Data Rate	Channel	Parameters		
			ANT. 0	ANT. 1	ANT. 2
802.11b	CCK/ 1Mbps	01	16	16	16
	CCK/ 1Mbps	06	16.5	16.5	16.5
	CCK/ 1Mbps	11	16.5	16.5	16.5
802.11g	OFDM/ 6Mbps	01	10	10	10
	OFDM/ 6Mbps	06	10	10	10
	OFDM/ 6Mbps	11	10	10	10
802.11n(20)	MCS 0	01	7	7	7
	MCS 0	06	7	7	7
	MCS 0	11	8	8	8
802.11n(40)	MCS 0	03	7	7	7
	MCS 0	06	7	7	7
	MCS 0	09	7	7	7
Note: TX signal at 802.11b/g mode only could transmit at Ant. 0 or Ant. 1 or Ant. 2. All the test mode have pretest with three Antenna, but the worst case is ANT 0. The report only show the worst case.					

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	± 3.60 dB ± 3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.20 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB

1.8 Test Facility

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at: 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 2				
Standard Section		Test Item	Judgment	Remark
FCC	IC			
15.203	/	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Band Edge	PASS	N/A
15.247(d)& 15.209	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A
Note: “/” for no requirement for this test item. N/A is an abbreviation for Not Applicable.				

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
RF Conducted Measurement	MTS-8310	MWRFTtest	V2.0.0.0

4. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 13, 2019	Jul. 12, 2020
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 13, 2019	Jul. 12, 2020
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 13, 2019	Jul. 12, 2020
LISN	Rohde & Schwarz	ENV216	101131	Jul. 13, 2019	Jul. 12, 2020
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 13, 2019	Jul. 12, 2020
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 13, 2019	Jul. 12, 2020
Spectrum Analyzer	Rohde & Schwarz	FSVR	1311.006K40-10 0945-DH	Feb. 10, 2019	Feb. 09, 2020
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Jan. 27, 2019	Jan. 26, 2020
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.03, 2019	Mar. 02, 2020
Horn Antenna	ETS-LINDGREN	BBHA 9170	BBHA9170582	Mar.03, 2019	Mar. 02, 2020
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 13, 2019	Jul. 12, 2020
Pre-amplifier	Sonoma	310N	185903	Mar.04, 2019	Mar. 03, 2020
Pre-amplifier	HP	8449B	3008A00849	Mar.03, 2019	Mar. 02, 2020
Pre-amplifier	SKET	LNPA_1840G-50	SK201904032	Jul. 27, 2019	Jul. 26, 2020
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.03, 2019	Mar. 02, 2020
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 13, 2019	Jul. 12, 2020
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 13, 2019	Jul. 12, 2020
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 16, 2019	Sep. 15, 2020
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 16, 2019	Sep. 15, 2020
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 16, 2019	Sep. 15, 2020
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 16, 2019	Sep. 15, 2020

5. Conducted Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard
FCC Part 15.207

5.1.2 Test Limit

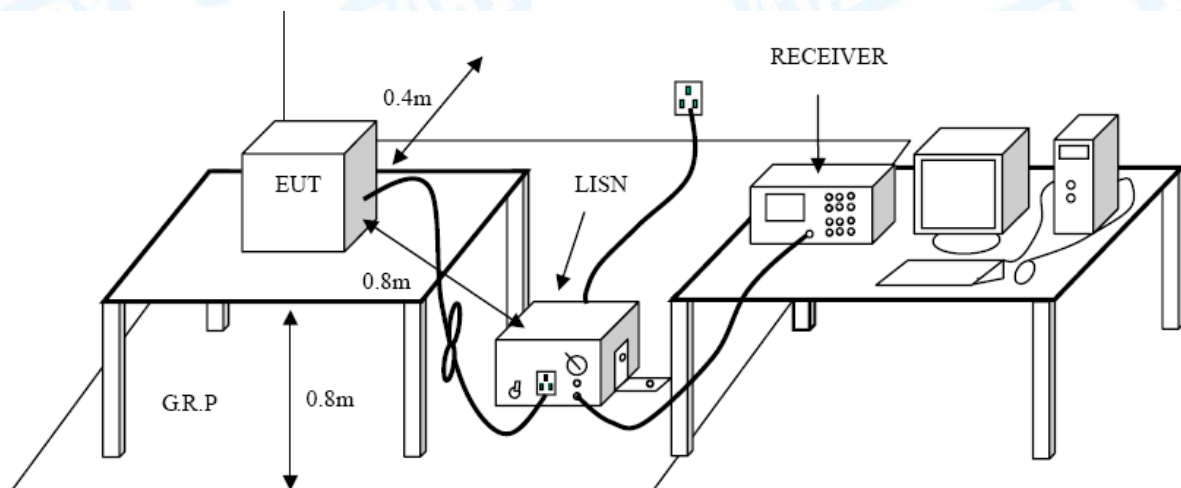
Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.2 Test Setup



5.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

5.4 Deviation From Test Standard

No deviation

5.5 EUT Operating Mode

Please refer to the description of test mode.

5.6 Test Data

Please refer to the Attachment A.

6. Radiated Emission Test

6.1 Test Standard and Limit

6.1.1 Test Standard
FCC Part 15.209

6.1.2 Test Limit

Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz)	Field Strength (microvolt/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

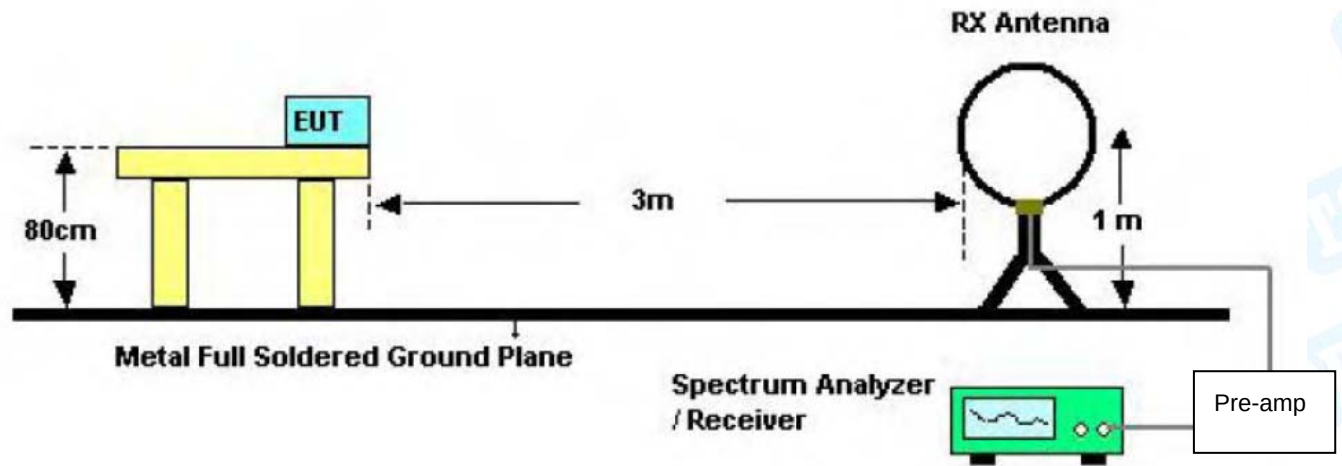
Radiated Emission Limit (Above 1000MHz)

Frequency (MHz)	Distance of 3m (dBuV/m)	
	Peak	Average
Above 1000	74	54

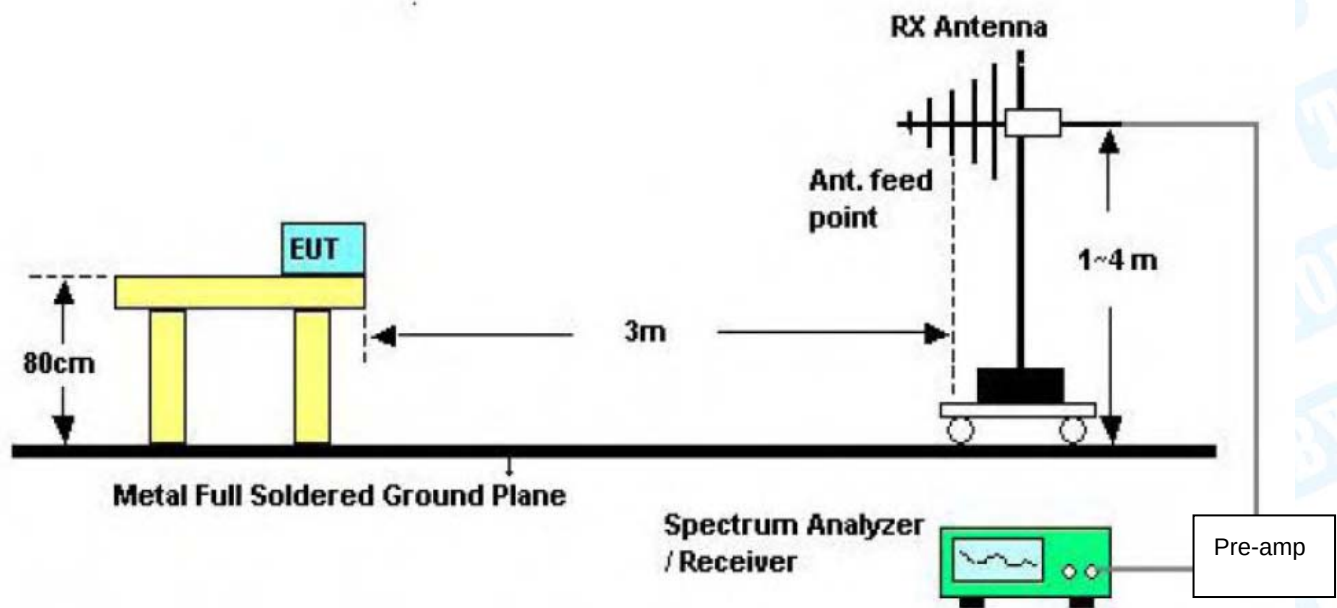
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

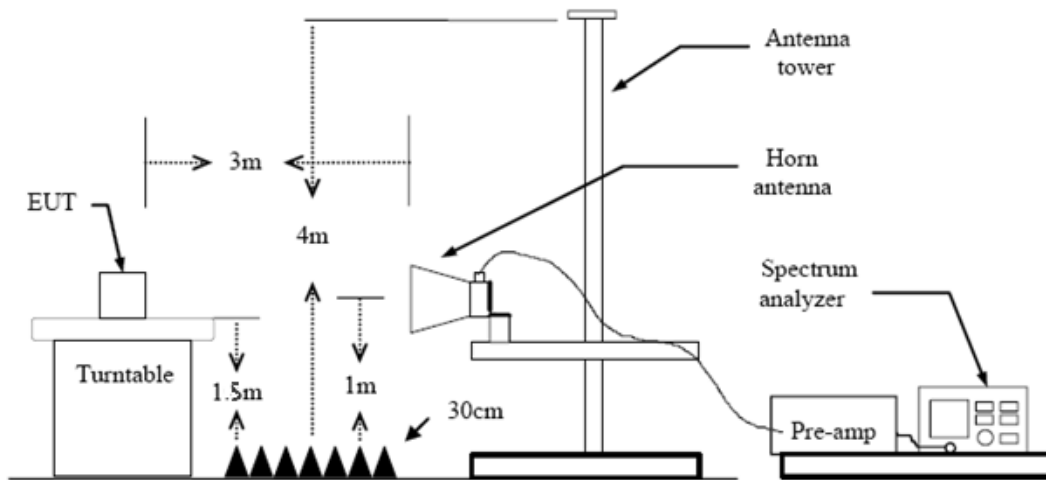
6.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

6.3 Test Procedure

- (1) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency Below 1GHz. The EUT was placed on a rotating 0.8m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 Deviation From Test Standard

No deviation

6.5 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

6.6 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
Please refer to the Attachment B.

7. Restricted Bands Requirement

7.1 Test Standard and Limit

7.1.1 Test Standard

FCC Part 15.247(d)

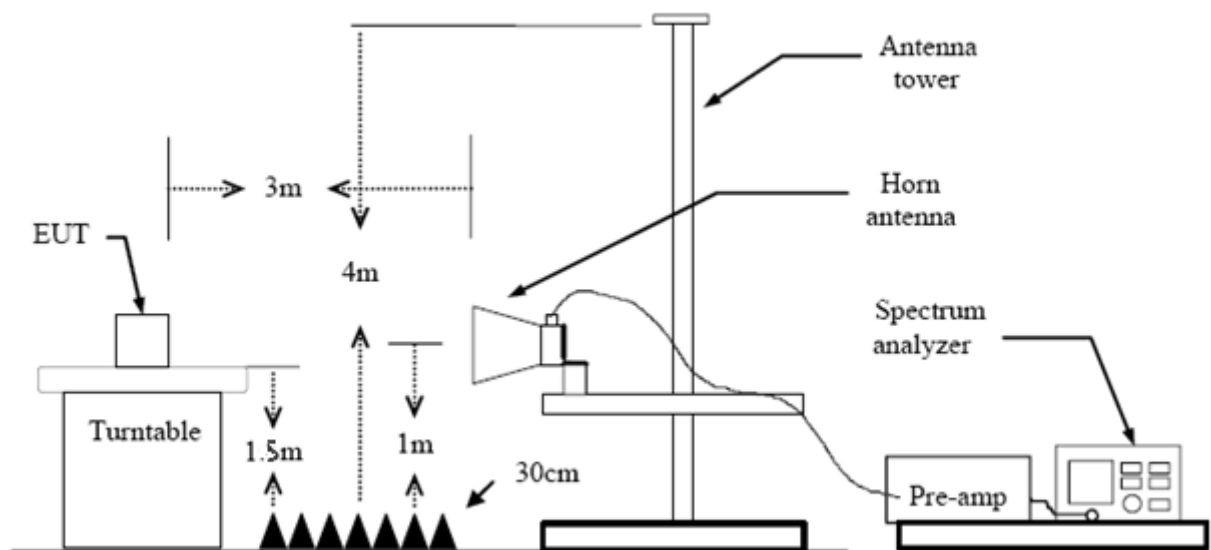
FCC Part 15.209

FCC Part 15.205

7.1.2 Test Limit

Restricted Frequency Band (MHz)	Distance of 3m (dBuV/m)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

7.2 Test Setup



7.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency Below 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

7.6 Test Data

Please refer to the Attachment C.

8. Bandwidth Test

8.1 Test Standard and Limit

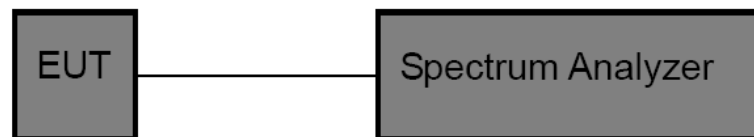
8.1.1 Test Standard

FCC Part 15.247 (a)(2)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Bandwidth	≥ 500 KHz (6dB bandwidth)	2400~2483.5

8.2 Test Setup



8.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

8.4 Deviation From Test Standard

No deviation

8.5 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

8.6 Test Data

Please refer to the Attachment D.

9. Peak Output Power Test

9.1 Test Standard and Limit

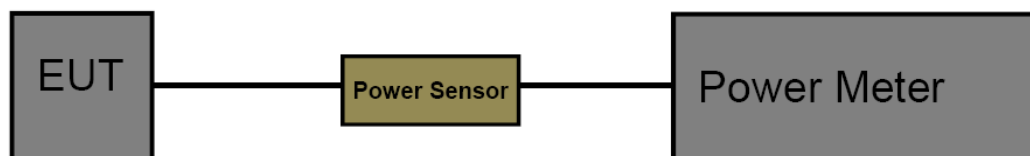
9.1.1 Test Standard

FCC Part 15.247 (b)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

9.2 Test Setup



9.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 v05r02.

The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

9.4 Deviation From Test Standard

No deviation

9.5 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

9.6 Test Data

Please refer to the Attachment E.

10. Power Spectral Density Test

10.1 Test Standard and Limit

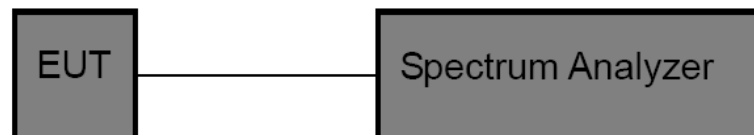
10.1.1 Test Standard

FCC Part 15.247 (e)

10.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

10.2 Test Setup



10.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 D01 v05r02.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser centre frequency to DTS channel centre frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz
- (5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

10.4 Deviation From Test Standard

No deviation

10.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

10.5 Test Data

Please refer to the Attachment F.

11. Antenna Requirement

11.1 Standard Requirement

11.1.1 Standard

FCC Part 15.203

11.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

11.2 Deviation From Test Standard

No deviation

11.3 Antenna Connected Construction

The gains of the antenna used for transmitting is 1.5dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

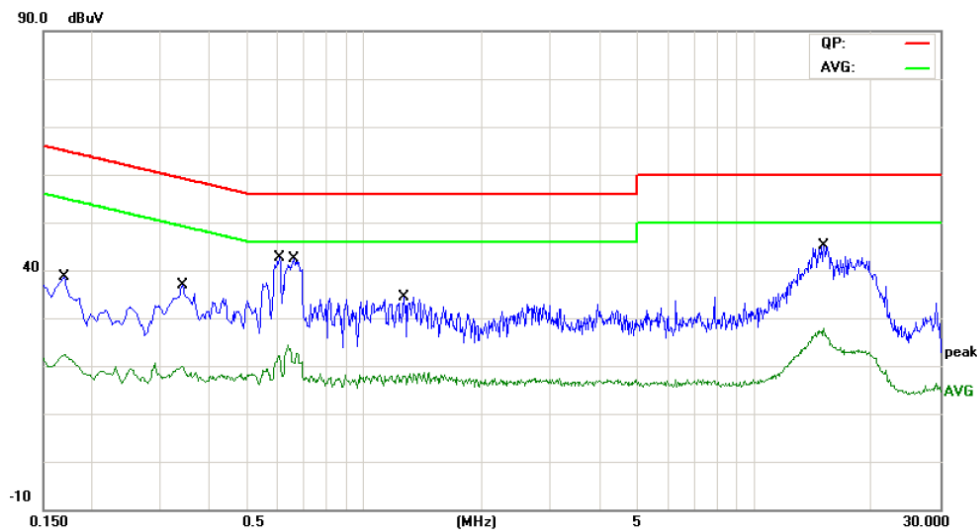
The EUT antenna is a stamp Antenna. It complies with the standard requirement.

Antenna Type
☐ Permanent attached antenna
☒ Unique connector antenna
☐ Professional installation antenna

Attachment A-- Conducted Emission Test Data

Remark: All channels have been tested and Shows only the worst channels.

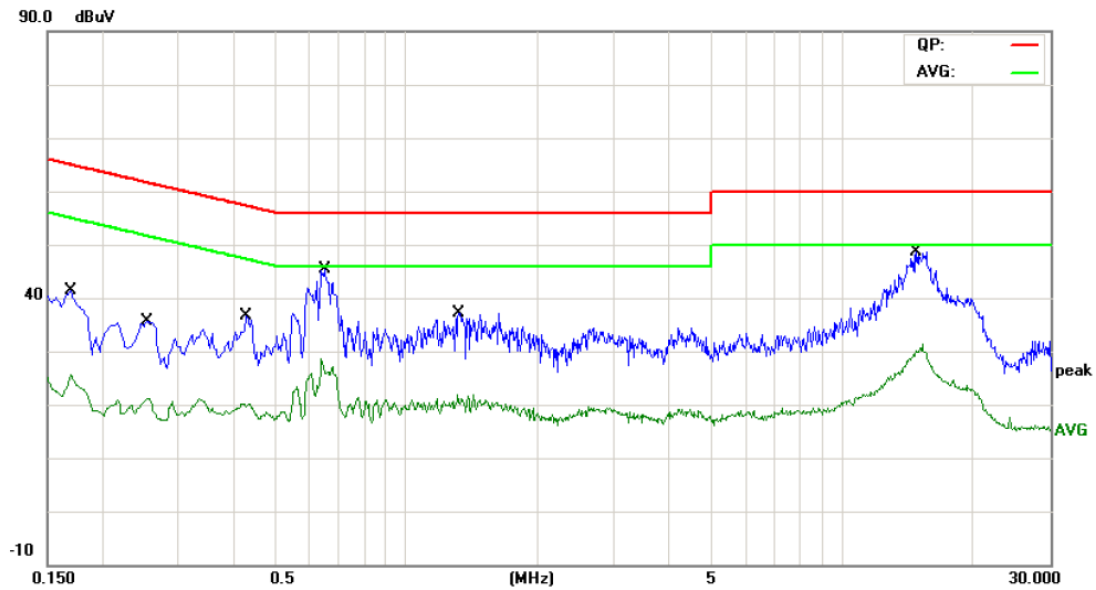
Temperature:	24.8 °C	Relative Humidity:	42%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	Mode 1(Adapter 1#)		
Remark:	Only worse case is reported.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1700	22.05	9.62	31.67	64.96	-33.29	QP
2		0.1700	10.76	9.62	20.38	54.96	-34.58	AVG
3		0.3420	20.27	9.73	30.00	59.15	-29.15	QP
4		0.3420	8.73	9.73	18.46	49.15	-30.69	AVG
5	*	0.6060	27.05	9.79	36.84	56.00	-19.16	QP
6		0.6060	10.65	9.79	20.44	46.00	-25.56	AVG
7		0.6580	24.78	9.77	34.55	56.00	-21.45	QP
8		0.6580	9.87	9.77	19.64	46.00	-26.36	AVG
9		1.2660	15.95	9.66	25.61	56.00	-30.39	QP
10		1.2660	7.04	9.66	16.70	46.00	-29.30	AVG
11		15.1100	25.35	9.85	35.20	60.00	-24.80	QP
12		15.1100	17.06	9.85	26.91	50.00	-23.09	AVG

Emission Level= Read Level+ Correct Factor

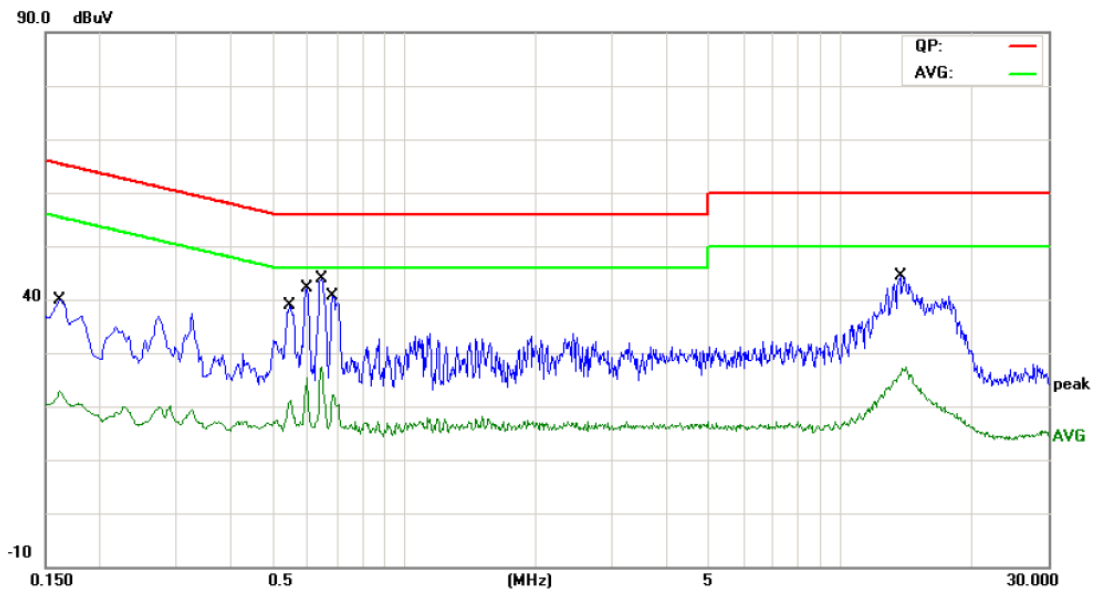
Temperature:	24.8 °C	Relative Humidity:	42%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	Mode 1(Adapter 1#)		
Remark:	Only worse case is reported.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1700	24.15	9.62	33.77	64.96	-31.19	QP
2		0.1700	12.83	9.62	22.45	54.96	-32.51	AVG
3		0.2540	18.72	9.69	28.41	61.62	-33.21	QP
4		0.2540	8.67	9.69	18.36	51.62	-33.26	AVG
5		0.4300	17.93	9.77	27.70	57.25	-29.55	QP
6		0.4300	9.37	9.77	19.14	47.25	-28.11	AVG
7	*	0.6500	29.36	9.77	39.13	56.00	-16.87	QP
8		0.6500	14.98	9.77	24.75	46.00	-21.25	AVG
9		1.3180	18.88	9.70	28.58	56.00	-27.42	QP
10		1.3180	10.06	9.70	19.76	46.00	-26.24	AVG
11		14.8140	28.91	9.86	38.77	60.00	-21.23	QP
12		14.8140	19.16	9.86	29.02	50.00	-20.98	AVG

Emission Level= Read Level+ Correct Factor

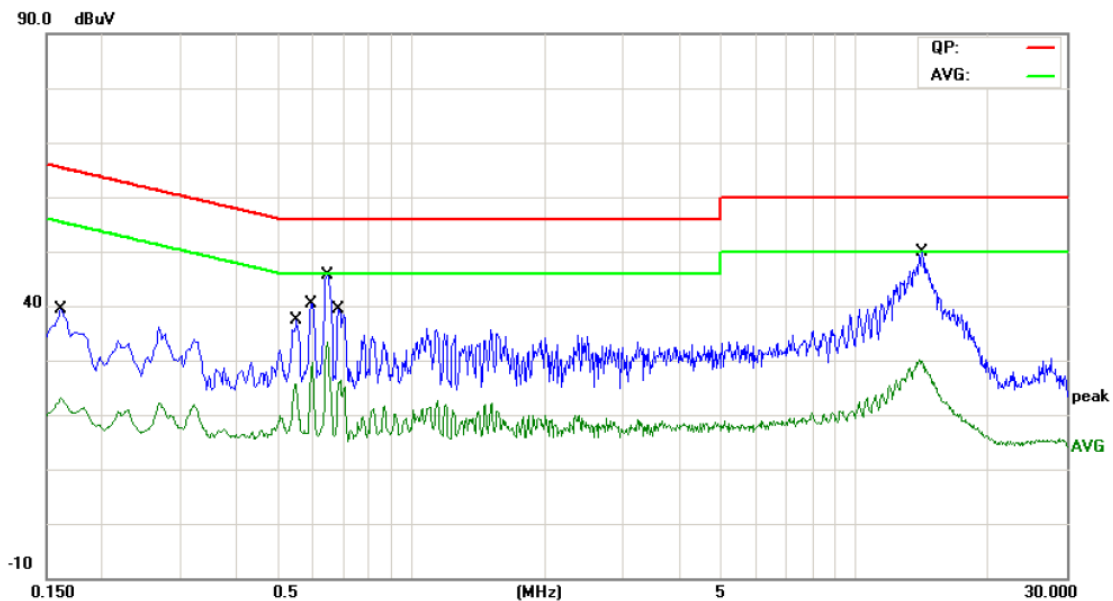
Temperature:	24.8 °C	Relative Humidity:	42%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	Mode 1(Adapter 2#)		
Remark:	Only worse case is reported.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1620	25.32	9.77	35.09	65.36	-30.27	QP
2		0.1620	11.14	9.77	20.91	55.36	-34.45	AVG
3		0.5460	24.03	9.95	33.98	56.00	-22.02	QP
4		0.5460	10.20	9.95	20.15	46.00	-25.85	AVG
5		0.5940	28.29	9.96	38.25	56.00	-17.75	QP
6		0.5940	13.91	9.96	23.87	46.00	-22.13	AVG
7	*	0.6460	30.41	9.89	40.30	56.00	-15.70	QP
8		0.6460	16.87	9.89	26.76	46.00	-19.24	AVG
9		0.6862	25.53	9.82	35.35	56.00	-20.65	QP
10		0.6862	11.10	9.82	20.92	46.00	-25.08	AVG
11		13.7019	25.61	9.82	35.43	60.00	-24.57	QP
12		13.7019	15.29	9.82	25.11	50.00	-24.89	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	24.8 °C	Relative Humidity:	42%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	Mode 1(Adapter 2#)		
Remark:	Only worse case is reported.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1620	24.73	9.61	34.34	65.36	-31.02	QP
2		0.1620	12.20	9.61	21.81	55.36	-33.55	AVG
3		0.5500	22.71	9.78	32.49	56.00	-23.51	QP
4		0.5500	15.25	9.78	25.03	46.00	-20.97	AVG
5		0.5940	27.11	9.79	36.90	56.00	-19.10	QP
6		0.5940	18.52	9.79	28.31	46.00	-17.69	AVG
7		0.6460	32.25	9.77	42.02	56.00	-13.98	QP
8	*	0.6460	22.79	9.77	32.56	46.00	-13.44	AVG
9		0.6860	24.63	9.76	34.39	56.00	-21.61	QP
10		0.6860	16.02	9.76	25.78	46.00	-20.22	AVG
11		14.1420	30.77	9.86	40.63	60.00	-19.37	QP
12		14.1420	19.19	9.86	29.05	50.00	-20.95	AVG

Emission Level= Read Level+ Correct Factor

Attachment B-- Radiated Emission Test Data

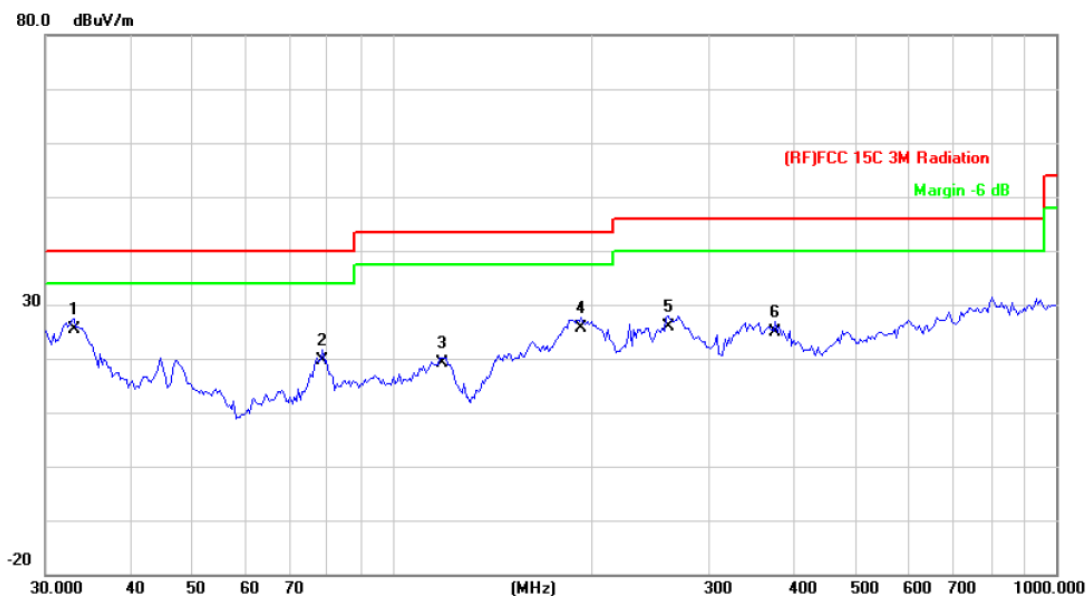
9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

30MHz~1GHz

Temperature:	24.6 °C	Relative Humidity:	43%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz (Adapter 1#)		
Remark:	Only worse case is reported.		

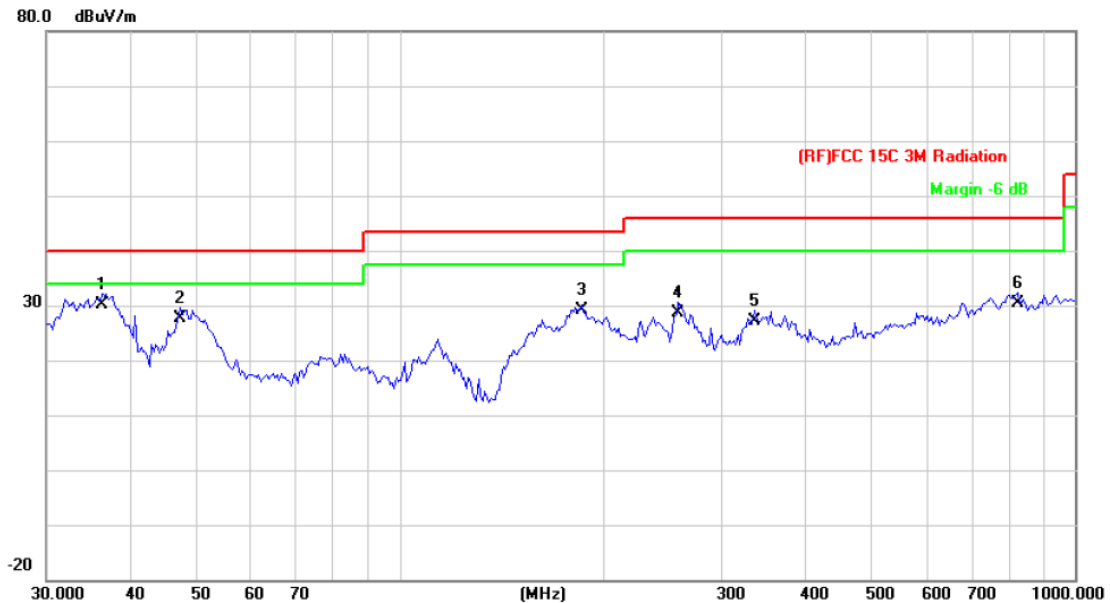


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	33.0950	40.79	-15.34	25.45	40.00	-14.55	QP
2		78.4133	42.24	-22.72	19.52	40.00	-20.48	QP
3		118.6014	41.51	-22.33	19.18	43.50	-24.32	QP
4		192.4186	45.31	-19.80	25.51	43.50	-17.99	QP
5		260.1444	42.76	-16.83	25.93	46.00	-20.07	QP
6		377.2591	37.96	-13.13	24.83	46.00	-21.17	QP

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

Temperature:	24.6 °C	Relative Humidity:	43%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz (Adapter 1#)		
Remark:	Only worse case is reported.		

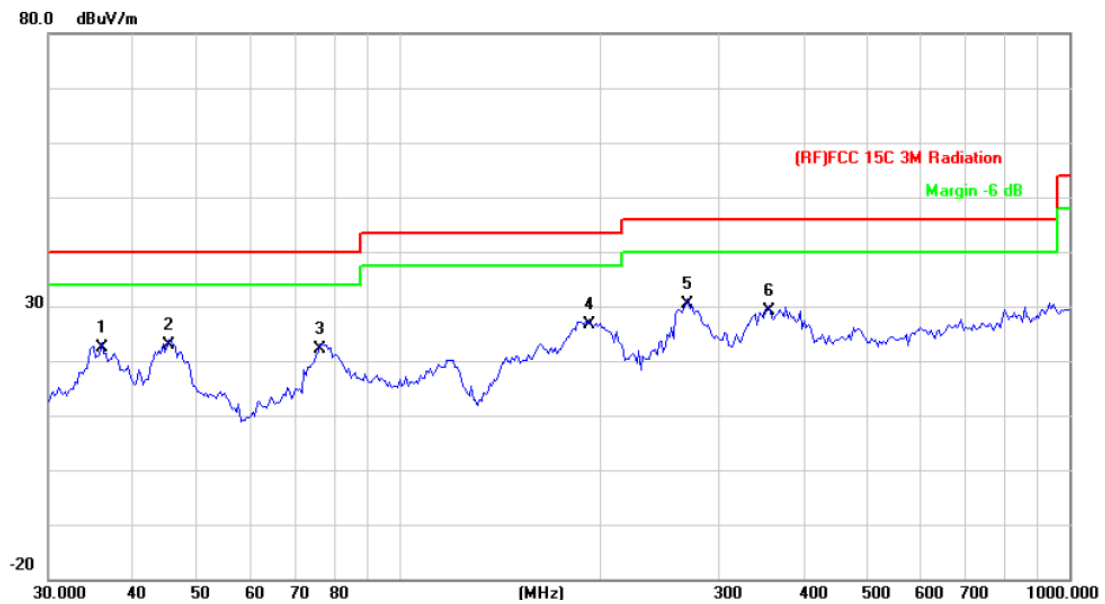


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	36.2541	47.45	-17.38	30.07	40.00	-9.93	QP
2		47.3253	50.18	-22.45	27.73	40.00	-12.27	QP
3		185.7880	49.02	-19.92	29.10	43.50	-14.40	QP
4		258.3263	45.54	-16.87	28.67	46.00	-17.33	QP
5		334.8589	42.11	-14.87	27.24	46.00	-18.76	QP
6		821.7103	35.76	-5.45	30.31	46.00	-15.69	QP

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

Temperature:	24.6°C	Relative Humidity:	43%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz (Adapter 2#)		
Remark:	Only worse case is reported.		

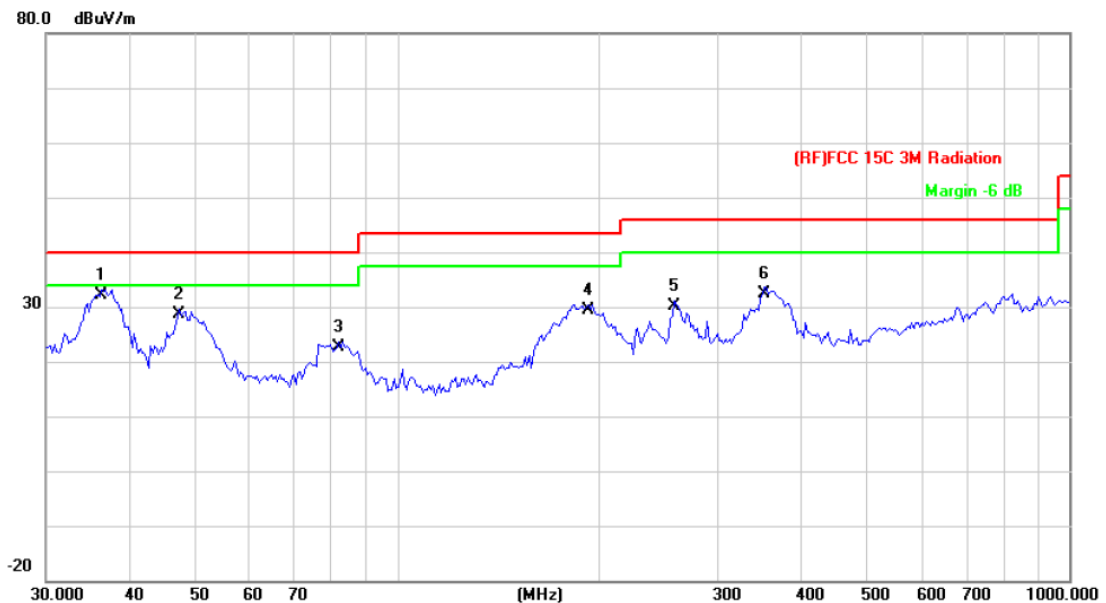


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		36.0007	39.60	-17.26	22.34	40.00	-17.66	QP
2		45.3755	44.56	-21.79	22.77	40.00	-17.23	QP
3		76.2442	44.98	-22.94	22.04	40.00	-17.96	QP
4		192.4182	46.34	-19.80	26.54	43.50	-16.96	QP
5	*	269.4284	47.09	-16.64	30.45	46.00	-15.55	QP
6		356.6757	43.13	-14.09	29.04	46.00	-16.96	QP

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz (Adapter 2#)		
Remark:	Only worse case is reported.		



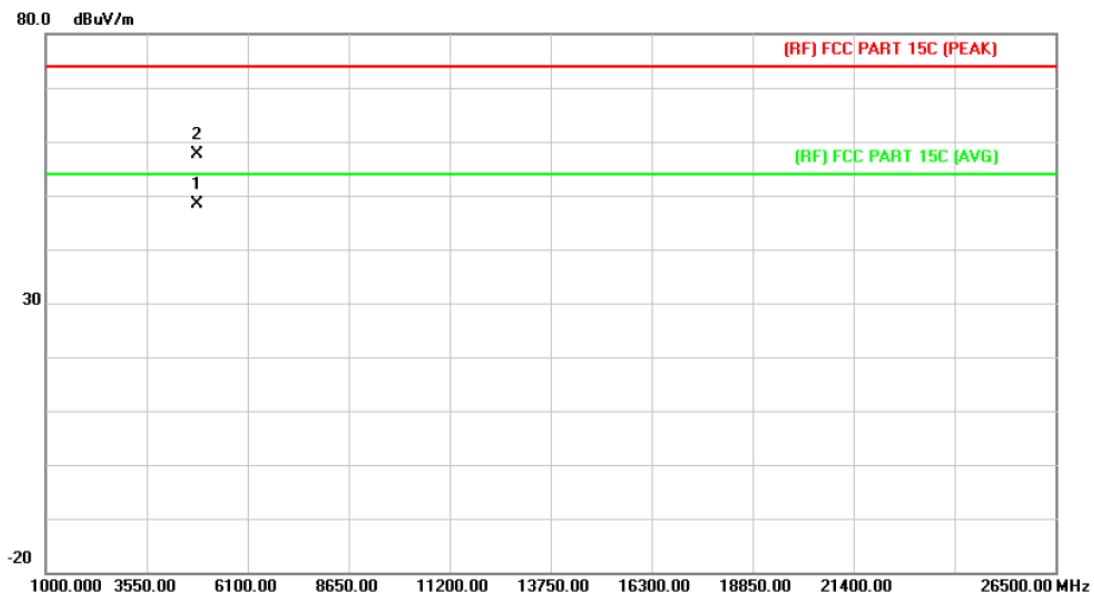
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	36.2541	49.45	-17.38	32.07	40.00	-7.93	QP
2		47.3253	51.18	-22.45	28.73	40.00	-11.27	QP
3		81.7831	45.18	-22.46	22.72	40.00	-17.28	QP
4		192.4182	49.24	-19.80	29.44	43.50	-14.06	QP
5		258.3263	47.06	-16.87	30.19	46.00	-15.81	QP
6		351.7078	46.77	-14.31	32.46	46.00	-13.54	QP

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

Above 1GHz

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz ANT. 0		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. 0 with Adapter 1#.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.730	35.83	12.54	48.37	54.00	-5.63	AVG
2		4824.396	45.00	12.54	57.54	74.00	-16.46	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz ANT. 0		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. 0 with Adapter 1#.		

80.0 dBuV/m

Temperature:	25 °C	Relative Humidity:	55%
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz ANT. 0		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. 0 with Adapter 1#.		

80.0 dBuV/m

(RF) FCC PART 15C (PEAK)

(RF) FCC PART 15C (AVG)

1 X

2 X

30

-20

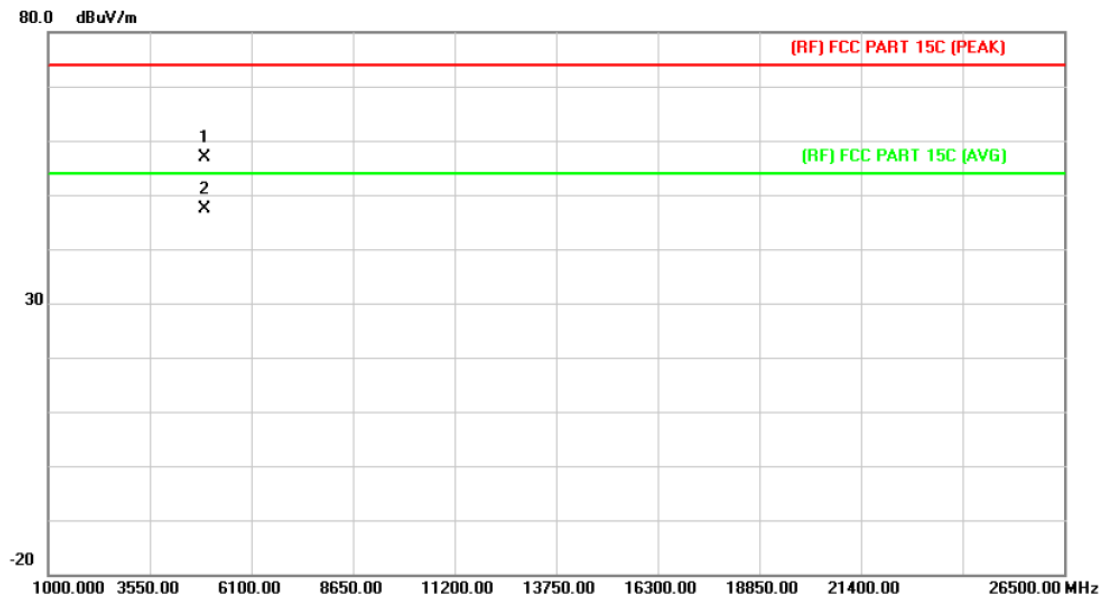
1000.000 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.312	44.50	12.85	57.35	74.00	-16.65	peak
2	*	4875.158	34.49	12.86	47.35	54.00	-6.65	AVG

Emission Level= Read Level+ Correct Factor

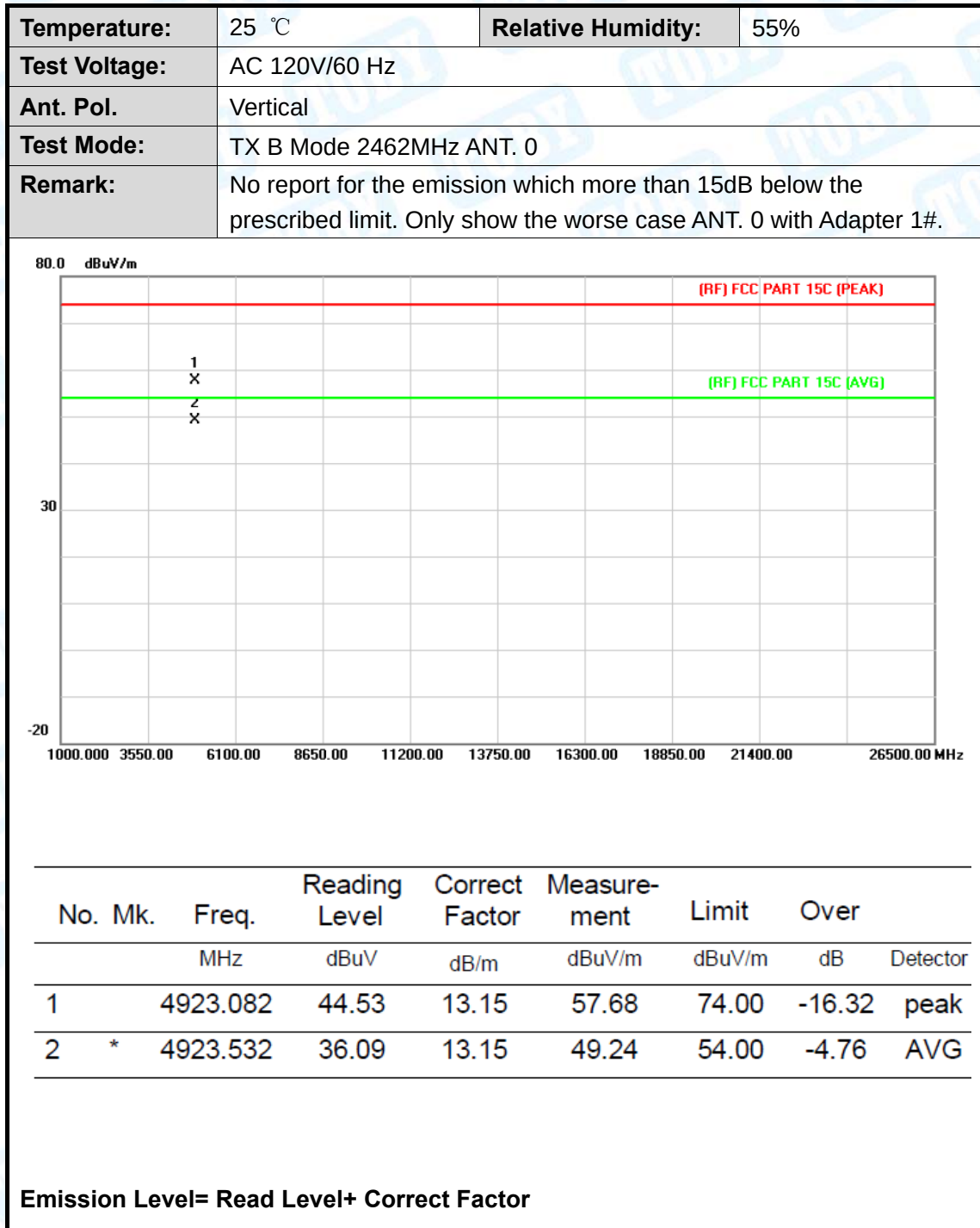


Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz ANT. 0		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. 0 with Adapter 1#.		

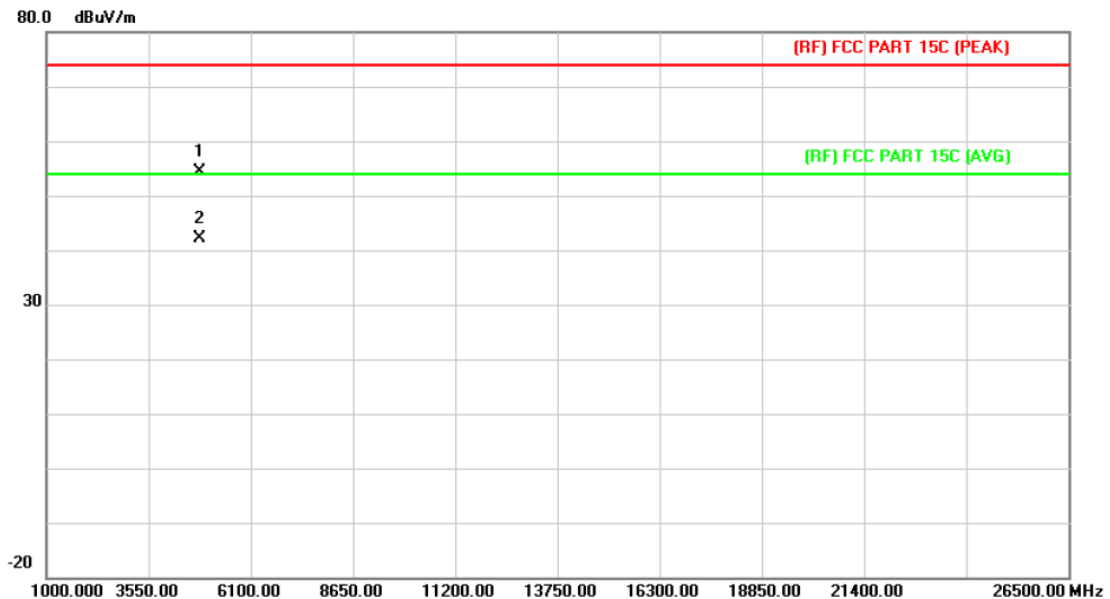


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.910	43.81	13.15	56.96	74.00	-17.04	peak
2	*	4924.684	34.20	13.15	47.35	54.00	-6.65	AVG

Emission Level= Read Level+ Correct Factor

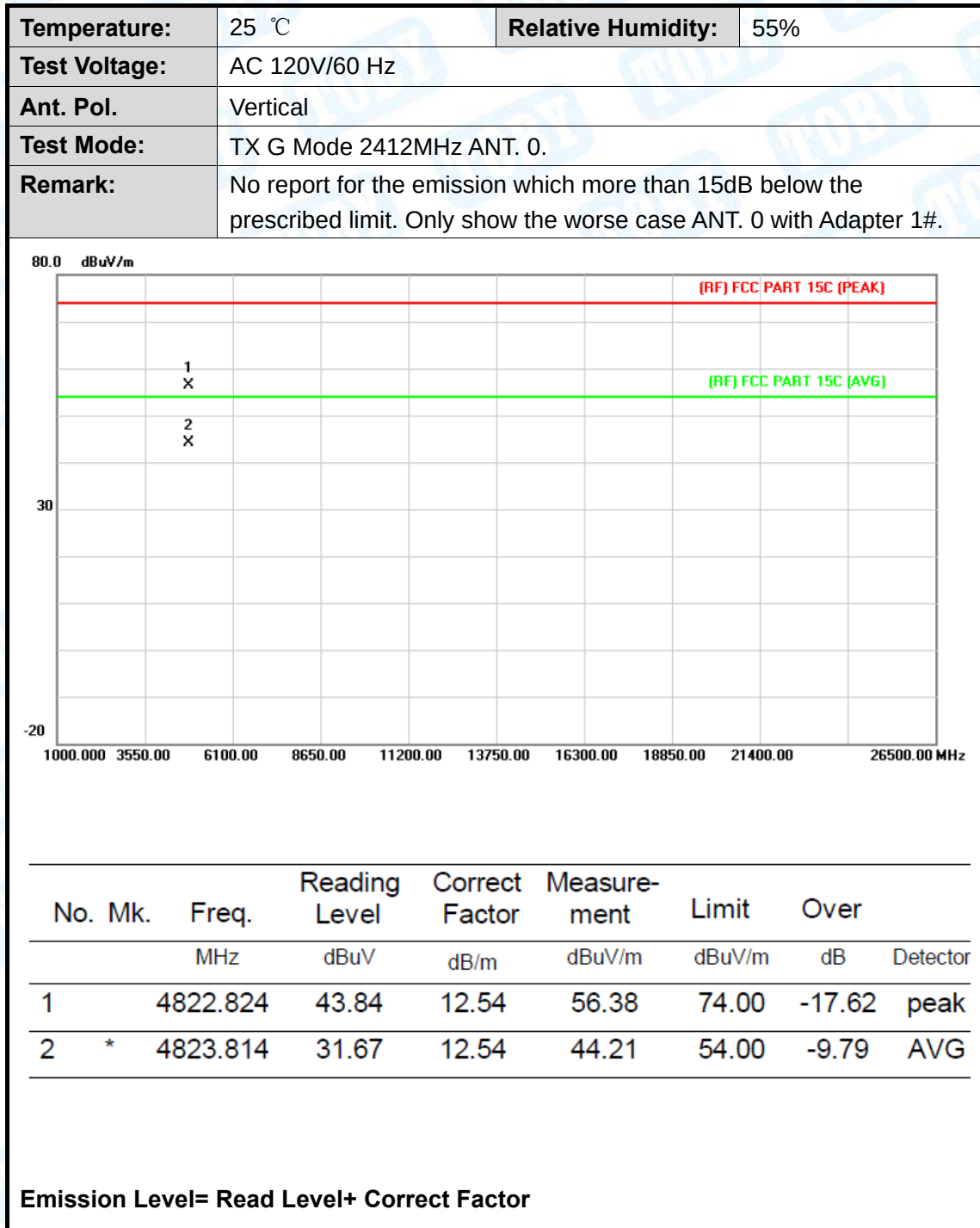


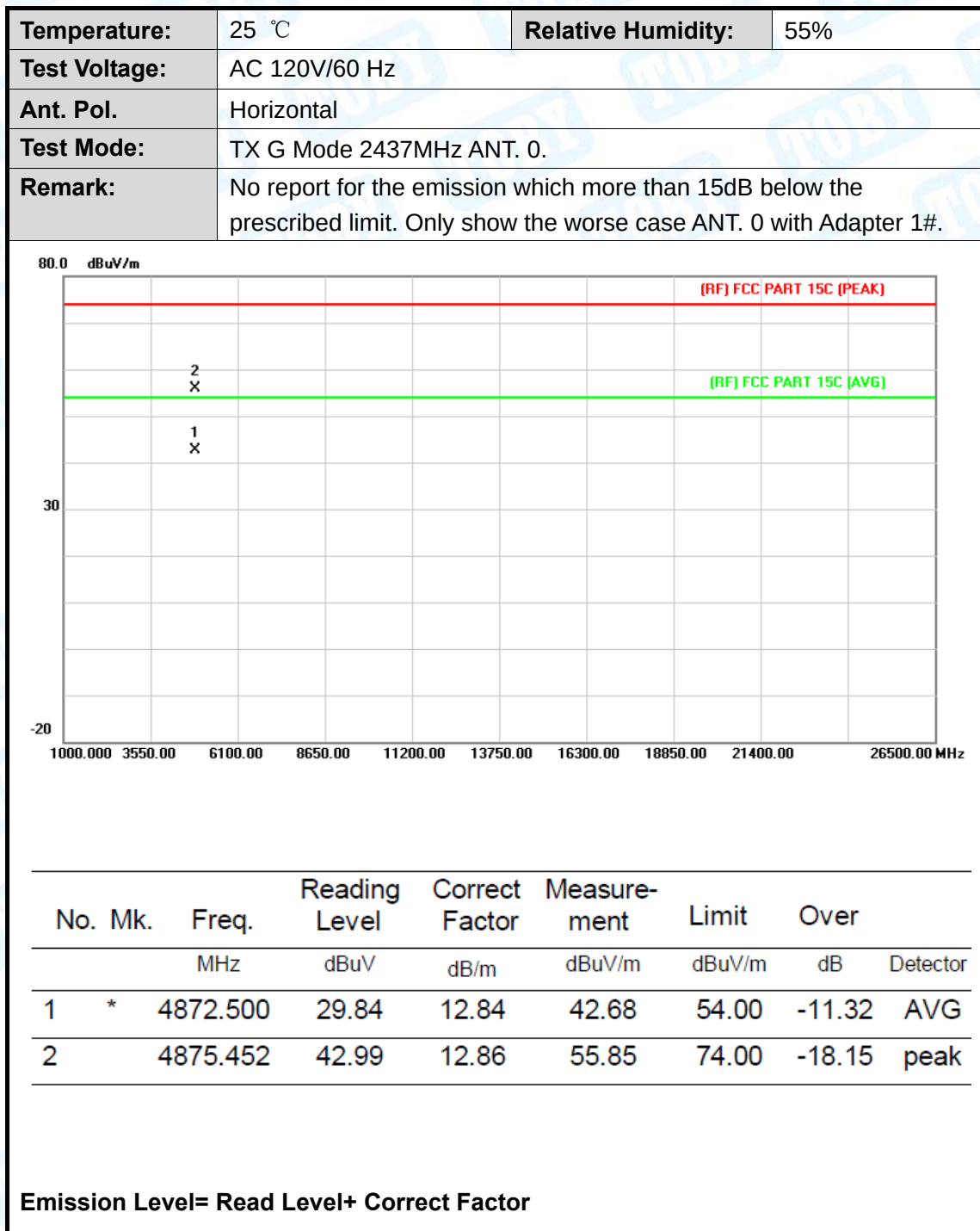
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz ANT. 0.		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. 0 with Adapter 1#.		



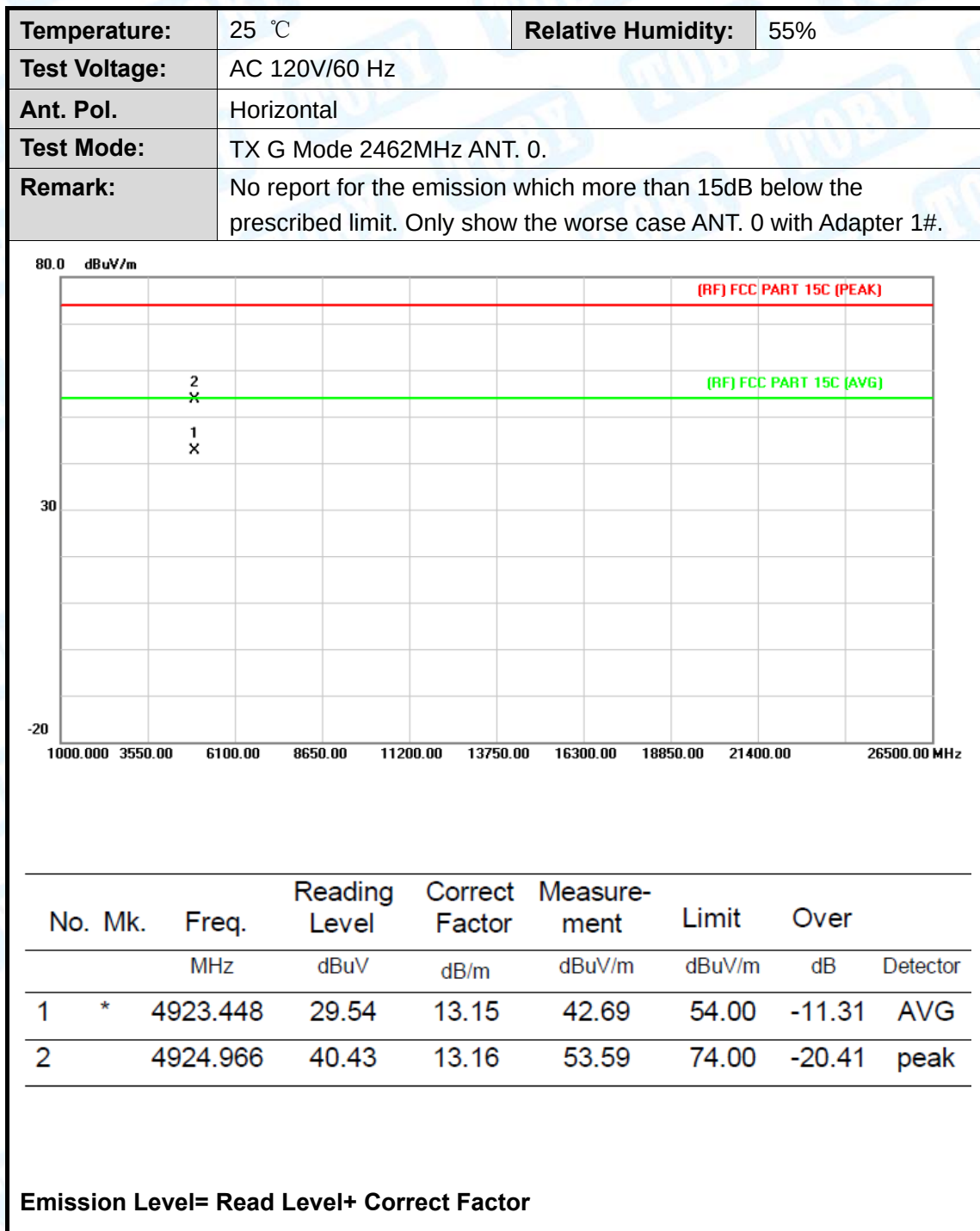
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4822.824	41.85	12.54	54.39	74.00	-19.61	peak
2	*	4823.814	29.67	12.54	42.21	54.00	-11.79	AVG

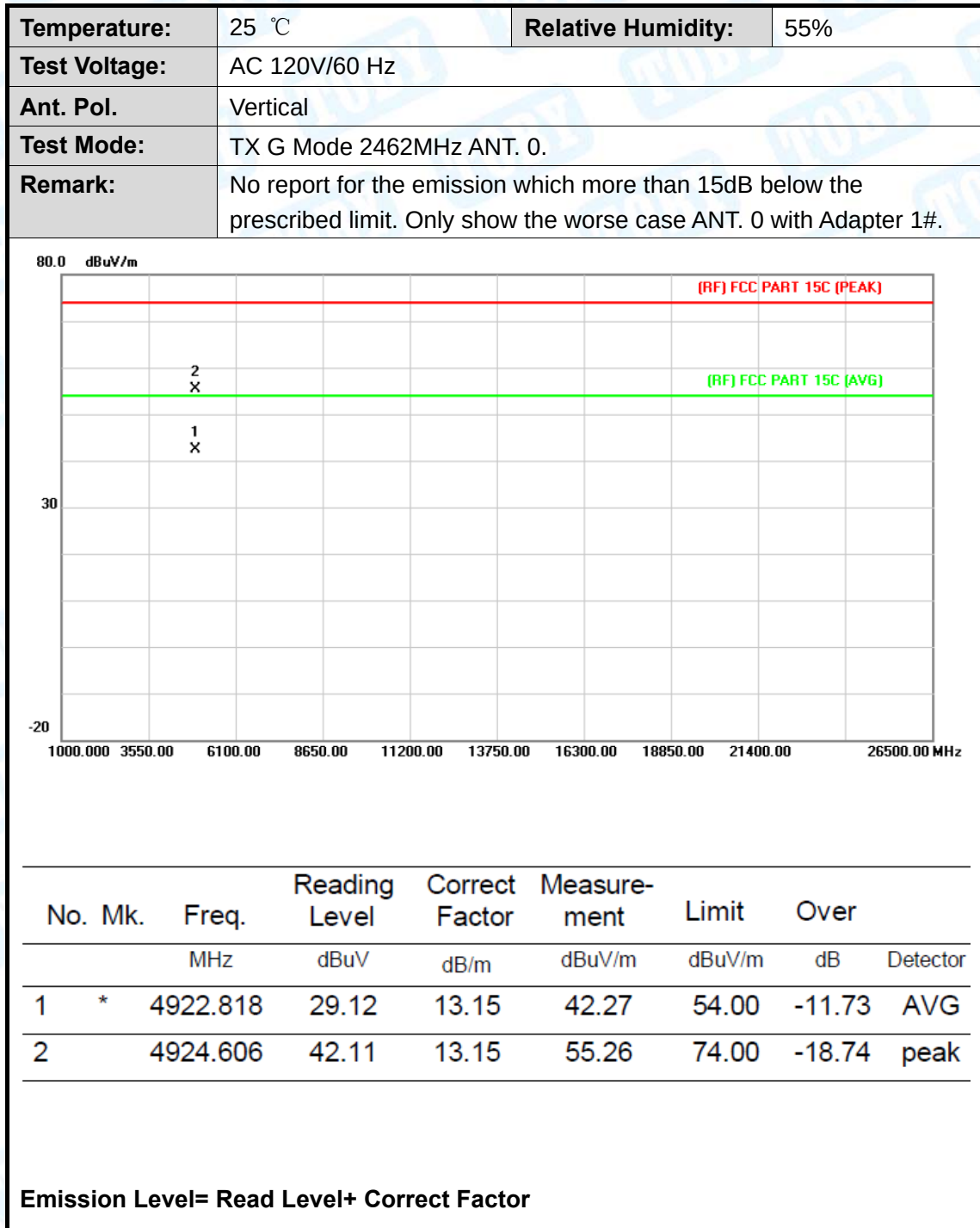
Emission Level= Read Level+ Correct Factor



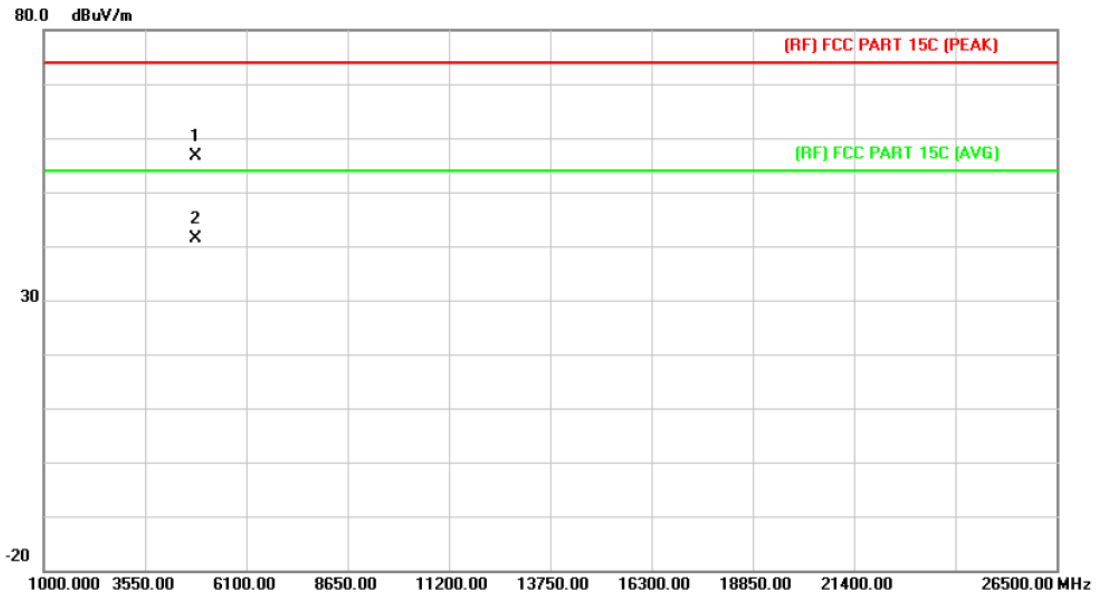








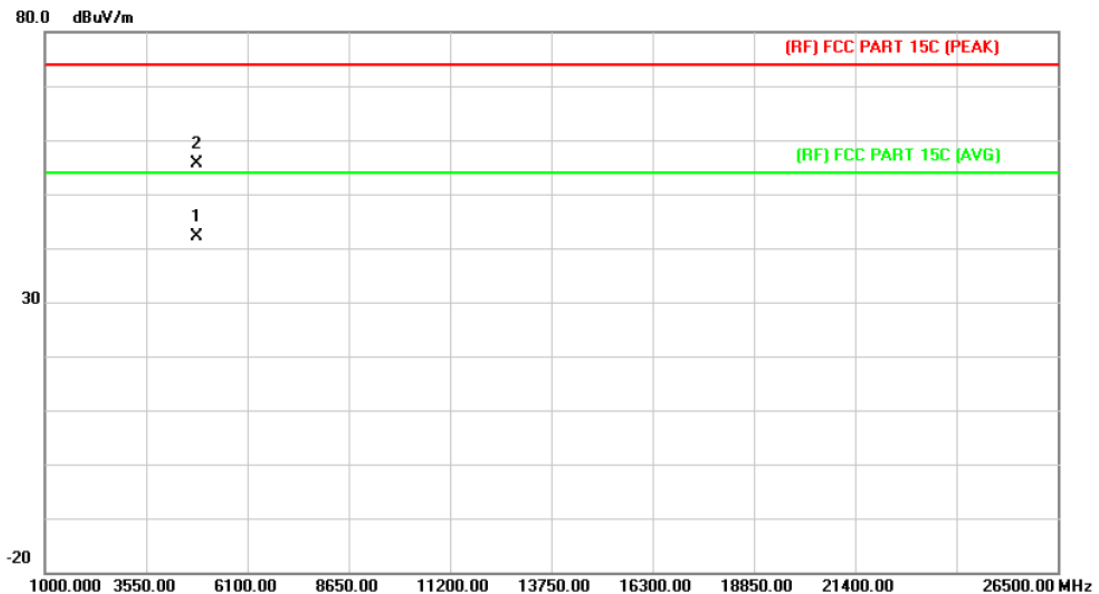
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX n(HT20) Mode 2412MHz ANT. 0+ANT. 1+ANT. 2		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case Adapter 1#.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4823.598	44.01	12.54	56.55	74.00	-17.45	peak
2	*	4823.604	28.80	12.54	41.34	54.00	-12.66	AVG

Emission Level= Read Level+ Correct Factor

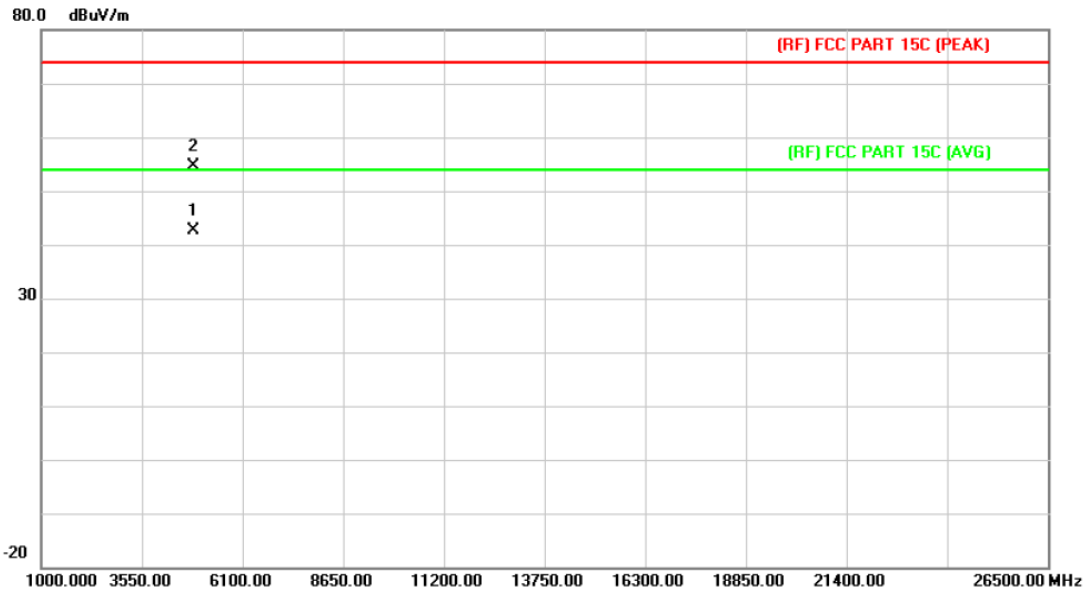
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX n(HT20) Mode 2412MHz ANT. 0+ANT. 1+ANT. 2		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case Adapter 1#.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.078	29.71	12.54	42.25	54.00	-11.75	AVG
2		4824.084	43.13	12.54	55.67	74.00	-18.33	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX n(HT20) Mode 2437MHz ANT. 0+ANT. 1+ANT. 2		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case Adapter 1#.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4872.500	29.84	12.84	42.68	54.00	-11.32	AVG
2		4873.610	41.88	12.85	54.73	74.00	-19.27	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX n(HT20) Mode 2437MHz ANT. 0+ANT. 1+ANT. 2		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case Adapter 1#.		

80.0 dBuV/m

(RF) FCC PART 15C (PEAK)

(RF) FCC PART 15C (AVG)

2 X

1 X

30

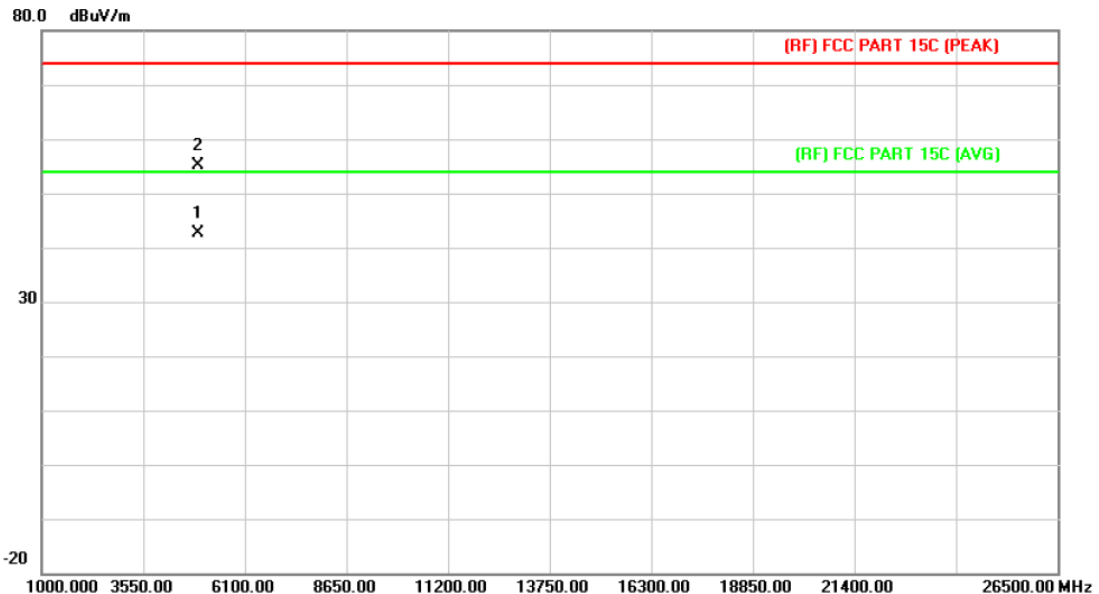
-20

1000.00 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4872.500	27.12	15.87	42.99	54.00	-11.01	AVG
2		4873.892	42.10	15.88	57.98	74.00	-16.02	peak

Emission Level= Read Level+ Correct Factor

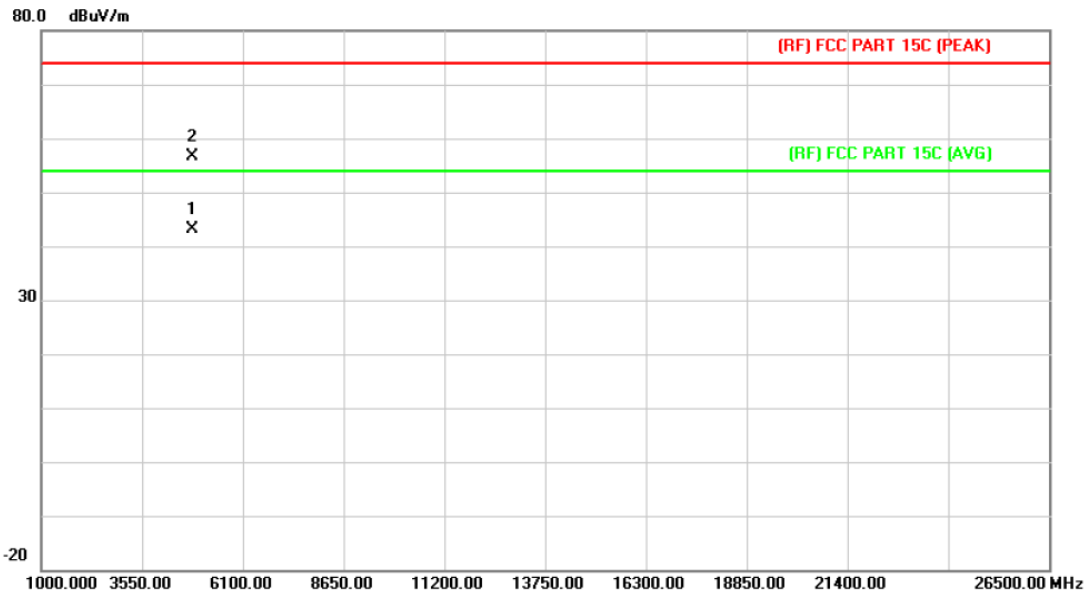
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX n(HT20) Mode 2462MHz ANT. 0+ANT. 1+ANT. 2		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case Adapter 1#.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4922.500	29.43	13.15	42.58	54.00	-11.42	AVG
2		4924.210	42.03	13.15	55.18	74.00	-18.82	peak

Emission Level= Read Level+ Correct Factor

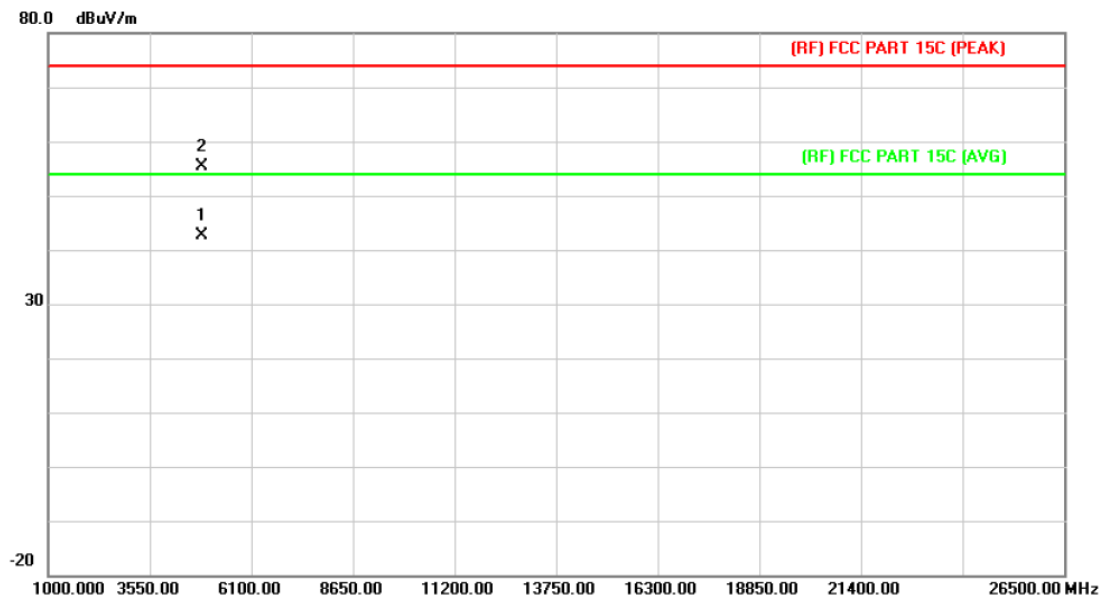
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX n(HT20) Mode 2462MHz ANT. 0+ANT. 1+ANT. 2		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case Adapter 1#.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.612	26.27	15.65	41.92	54.00	-12.08	AVG
2		4924.734	39.48	15.65	55.13	74.00	-18.87	peak

Emission Level= Read Level+ Correct Factor

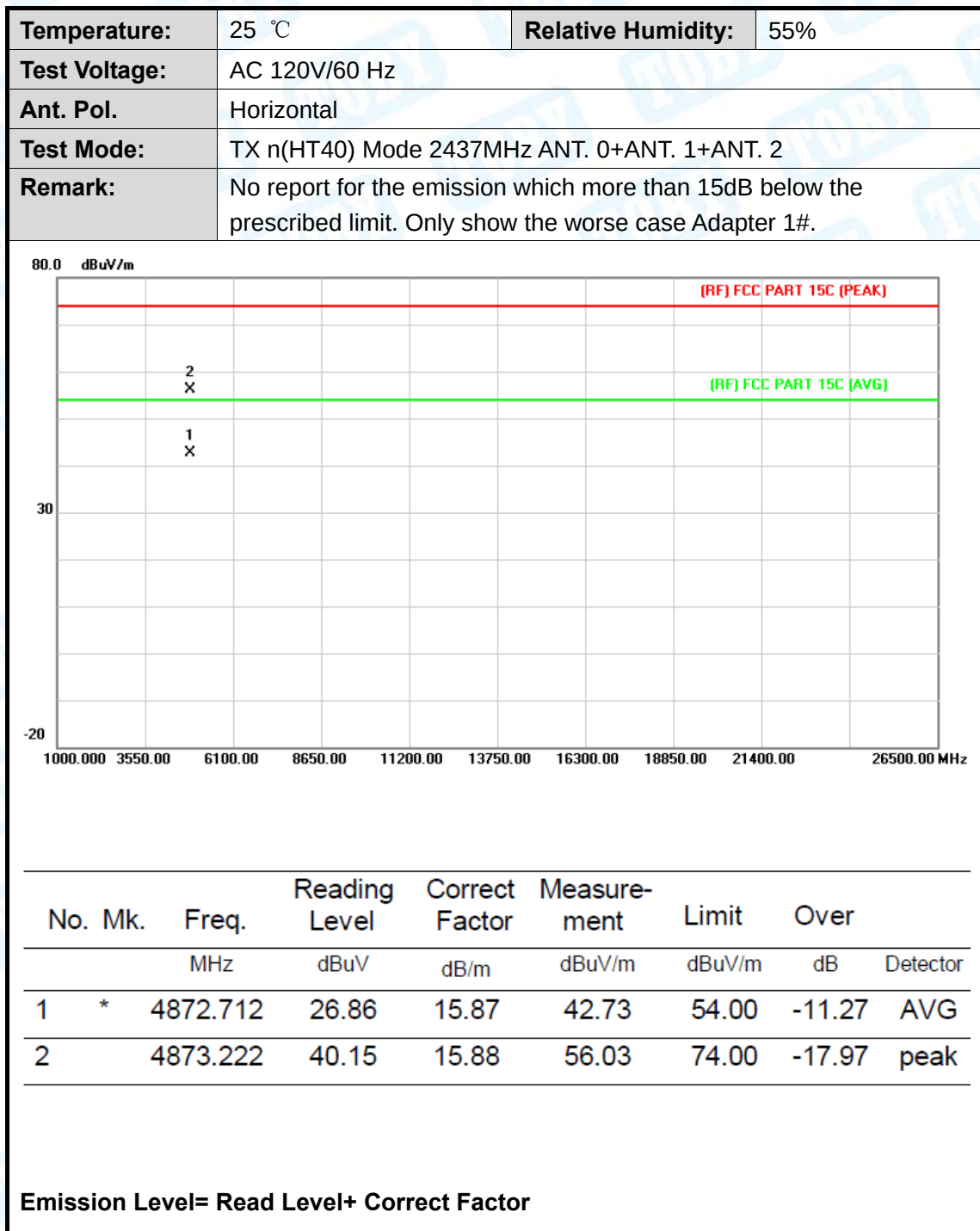
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX n(HT40) Mode 2422MHz ANT. 0+ANT. 1+ANT. 2		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case Adapter 1#.		



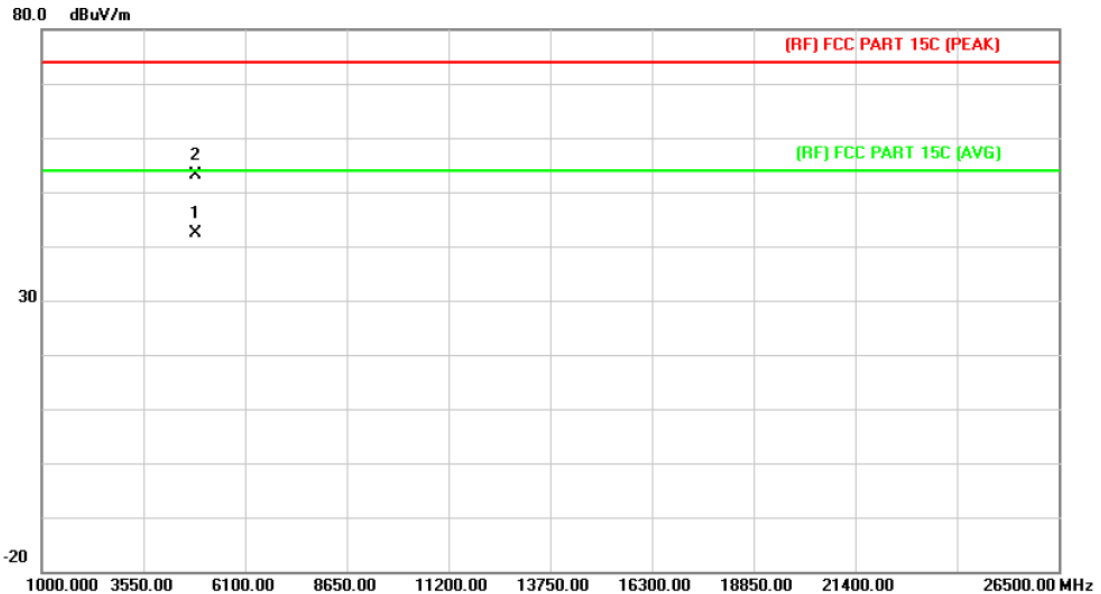
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4842.520	26.95	15.73	42.68	54.00	-11.32	AVG
2		4845.354	39.60	15.75	55.35	74.00	-18.65	peak

Emission Level= Read Level+ Correct Factor





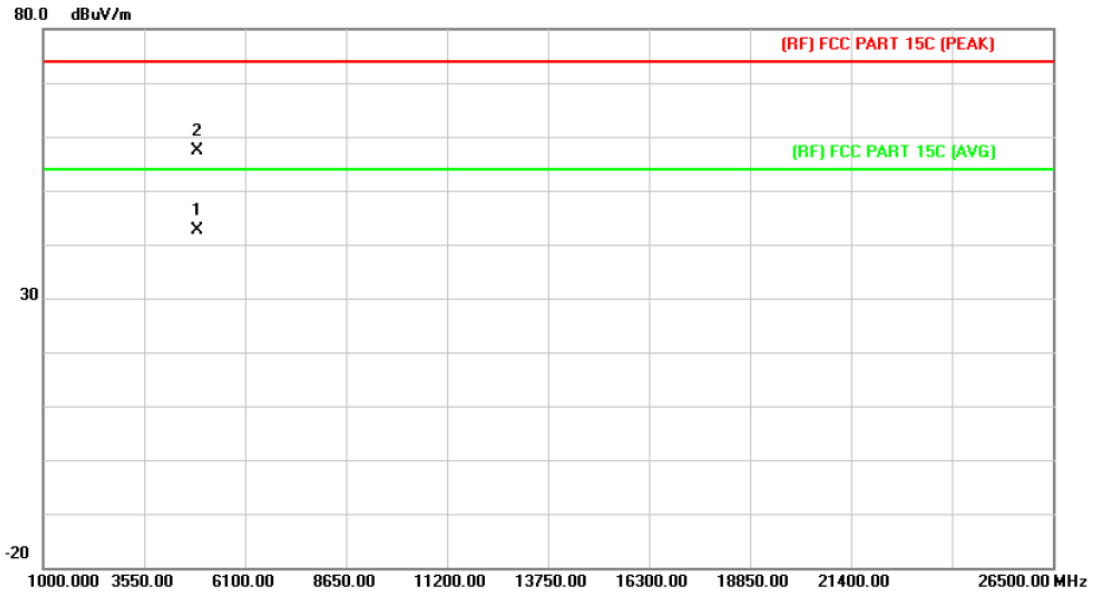
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX n(HT40) Mode 2437MHz ANT. 0+ANT. 1+ANT. 2		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case Adapter 1#.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4872.523	26.63	15.87	42.50	54.00	-11.50	AVG
2		4872.432	37.25	15.87	53.12	74.00	-20.88	peak

Emission Level= Read Level+ Correct Factor

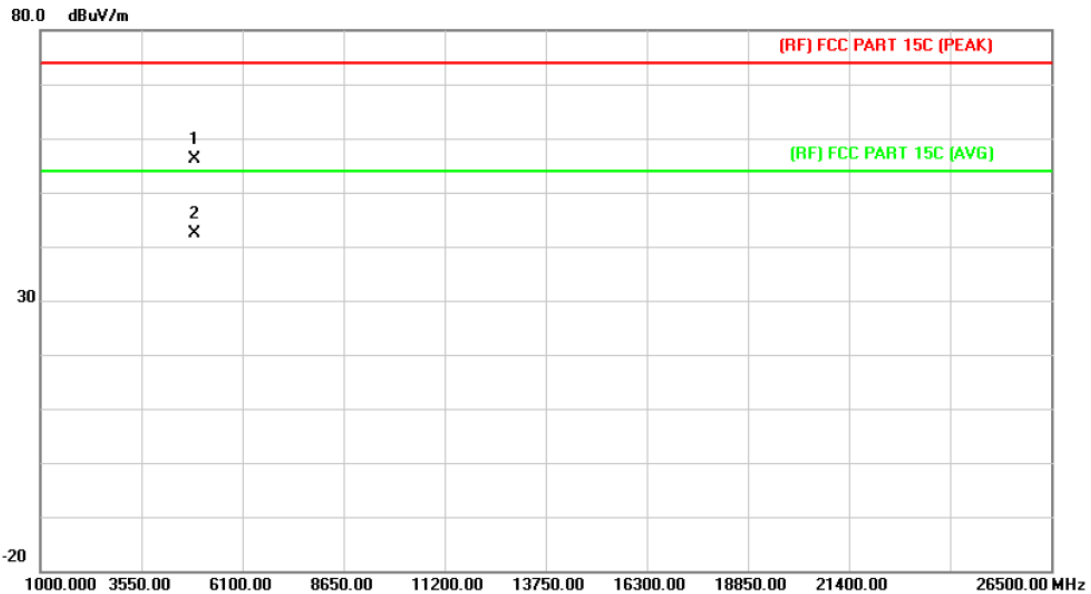
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX n(HT40) Mode 2452MHz ANT. 0+ANT. 1+ANT. 2		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case Adapter 1#.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4904.120	26.59	16.02	42.61	54.00	-11.39	AVG
2		4905.592	41.24	16.02	57.26	74.00	-16.74	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX n(HT40) Mode 2452MHz ANT. 0+ANT. 1+ANT. 2		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case Adapter 1#.		

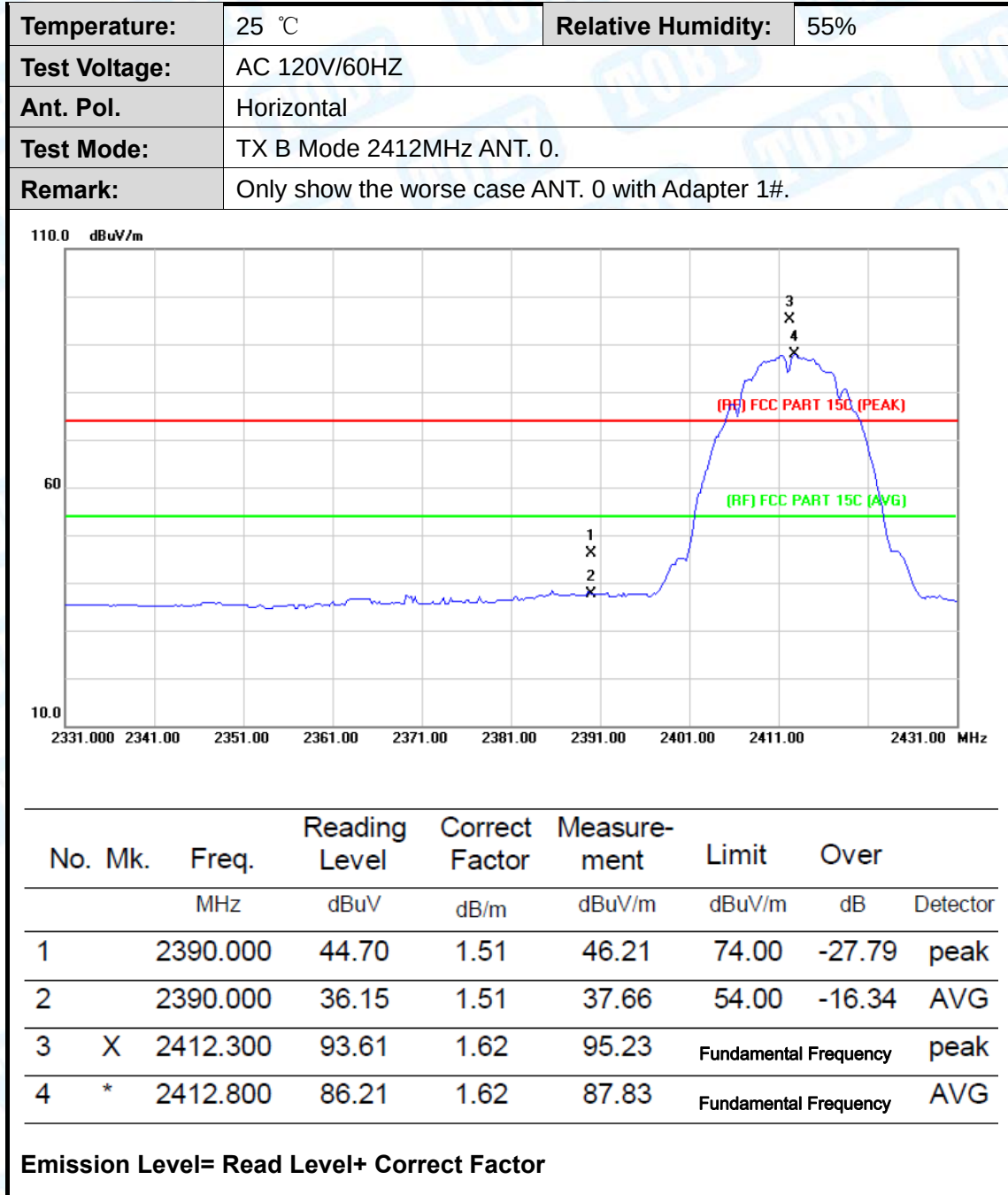


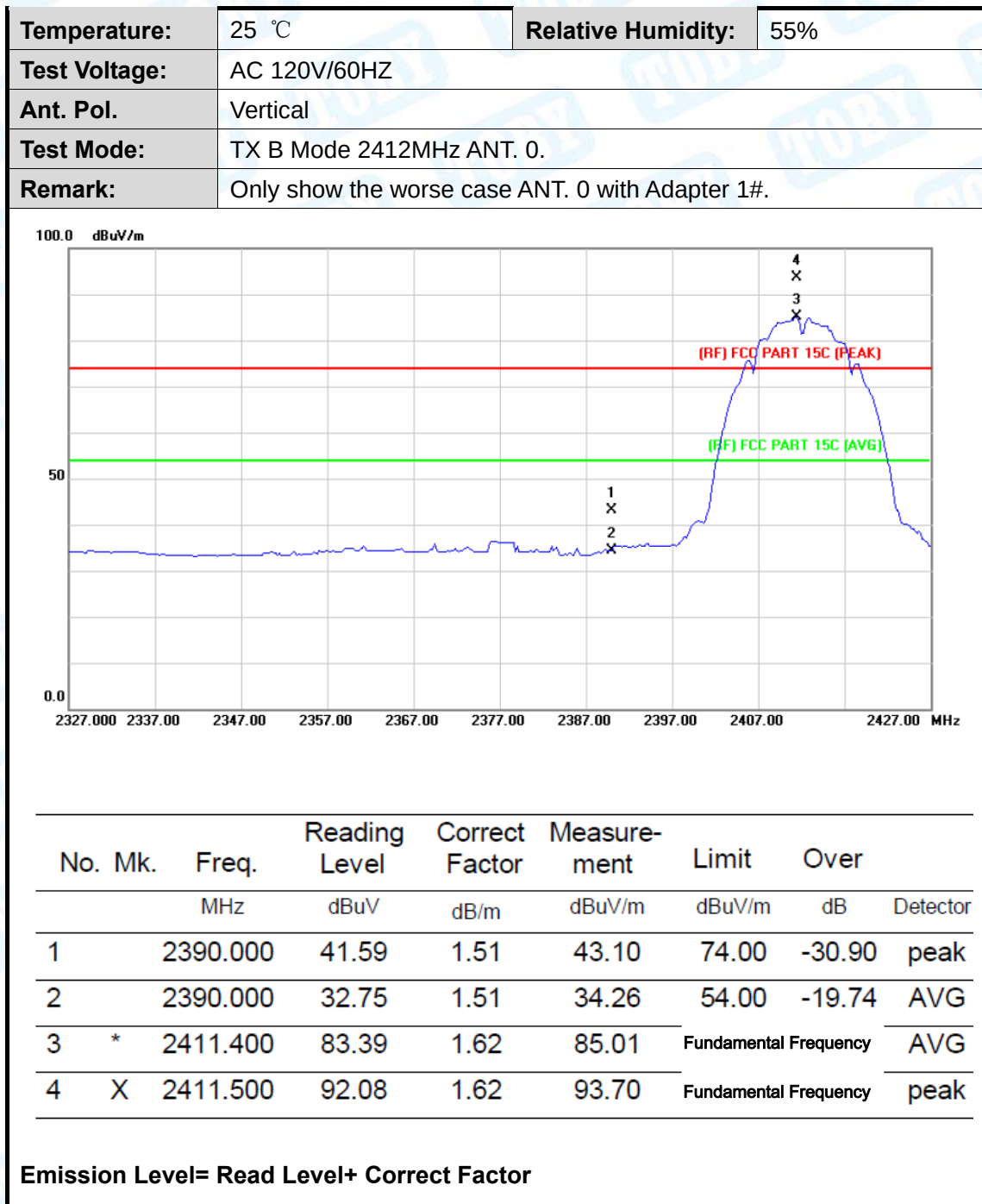
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4904.230	40.01	16.01	56.02	74.00	-17.98	peak
2	*	4904.430	26.30	16.01	42.31	54.00	-11.69	AVG

Emission Level= Read Level+ Correct Factor

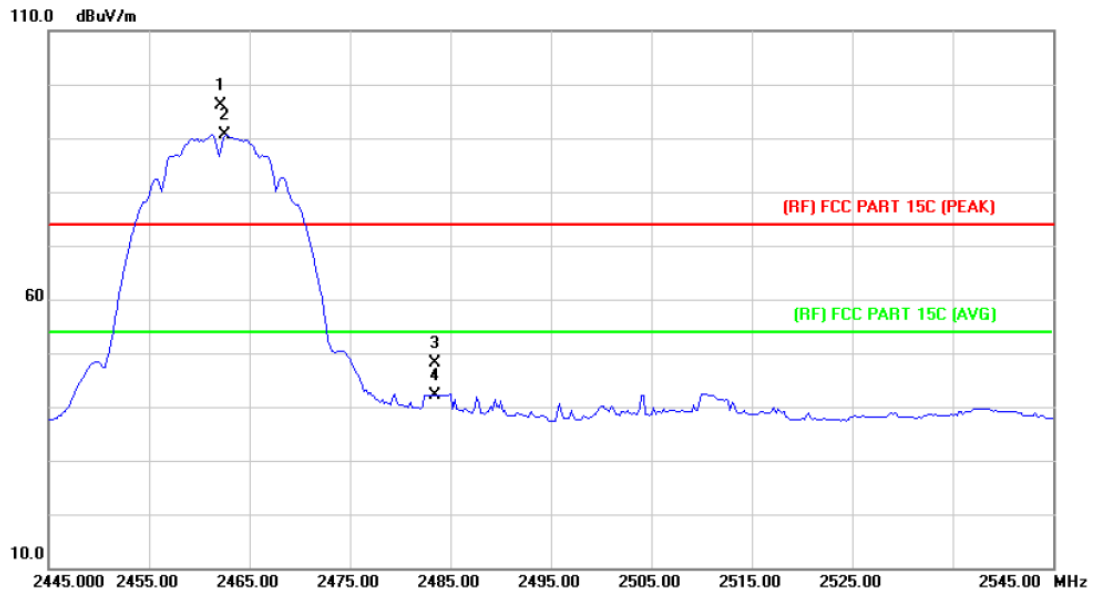
Attachment C-- Restricted Bands Requirement and Band-edge Test Data

(1) Radiation Test



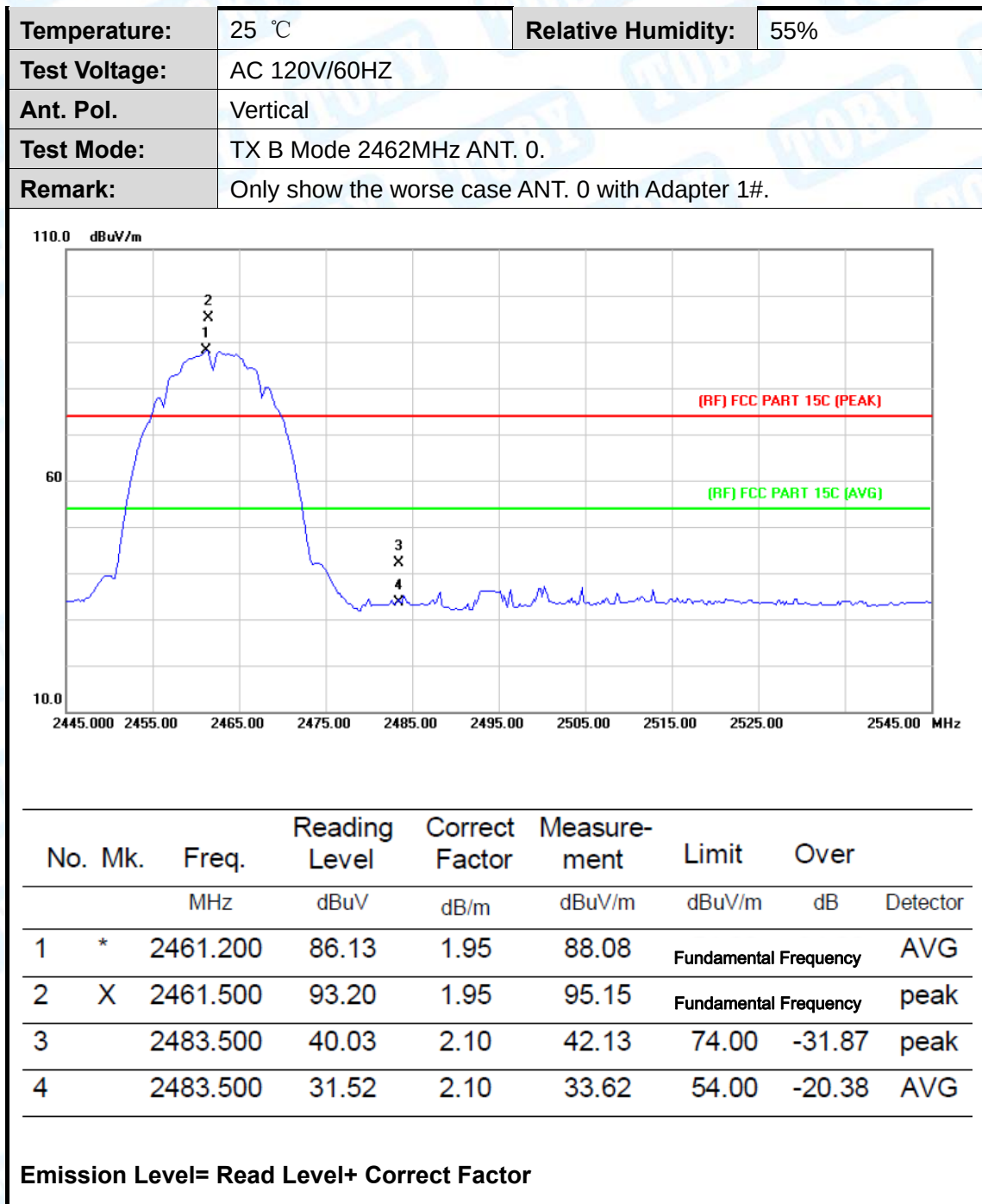


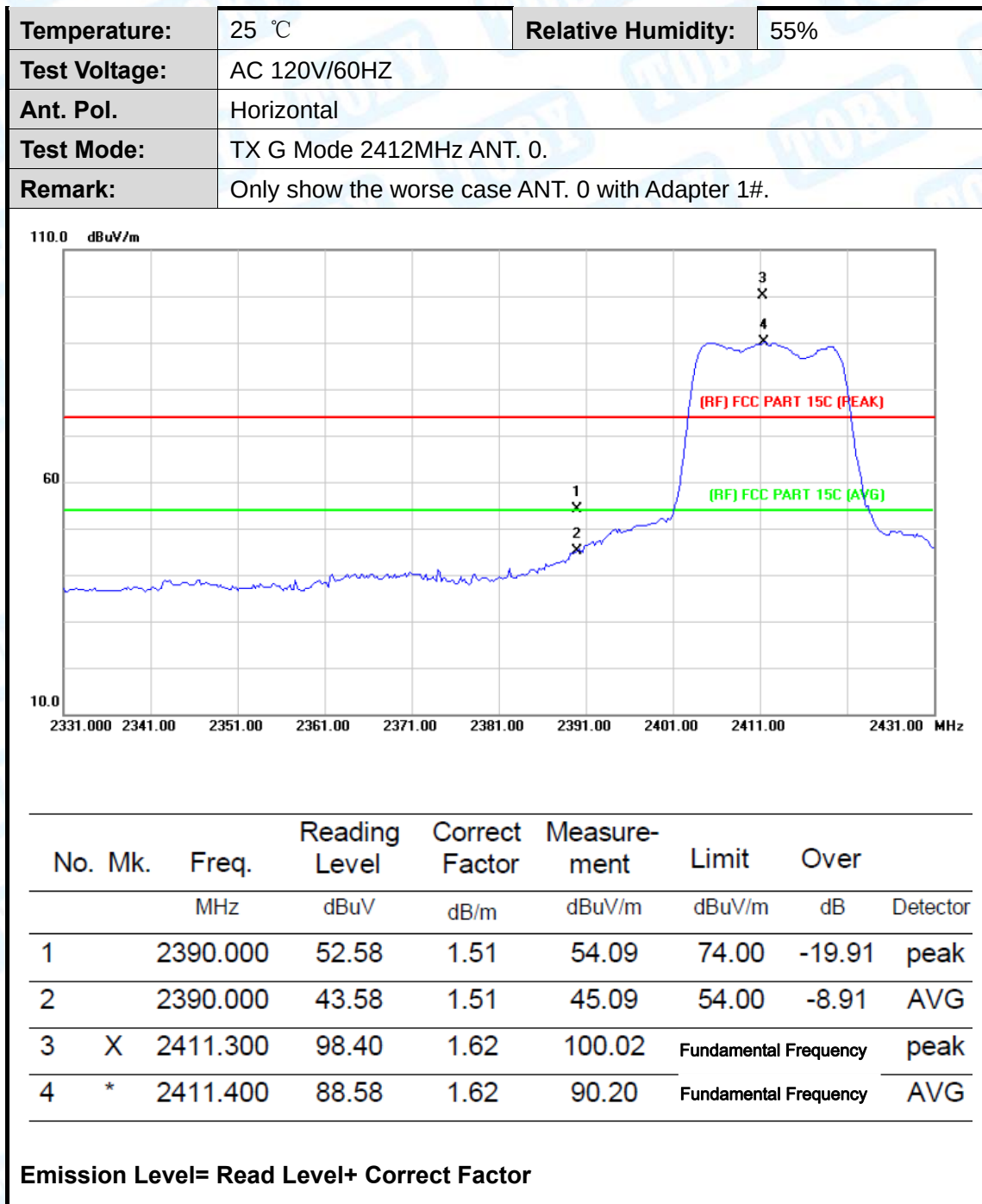
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz ANT. 0.		
Remark:	Only show the worse case ANT. 0 with Adapter 1#.		

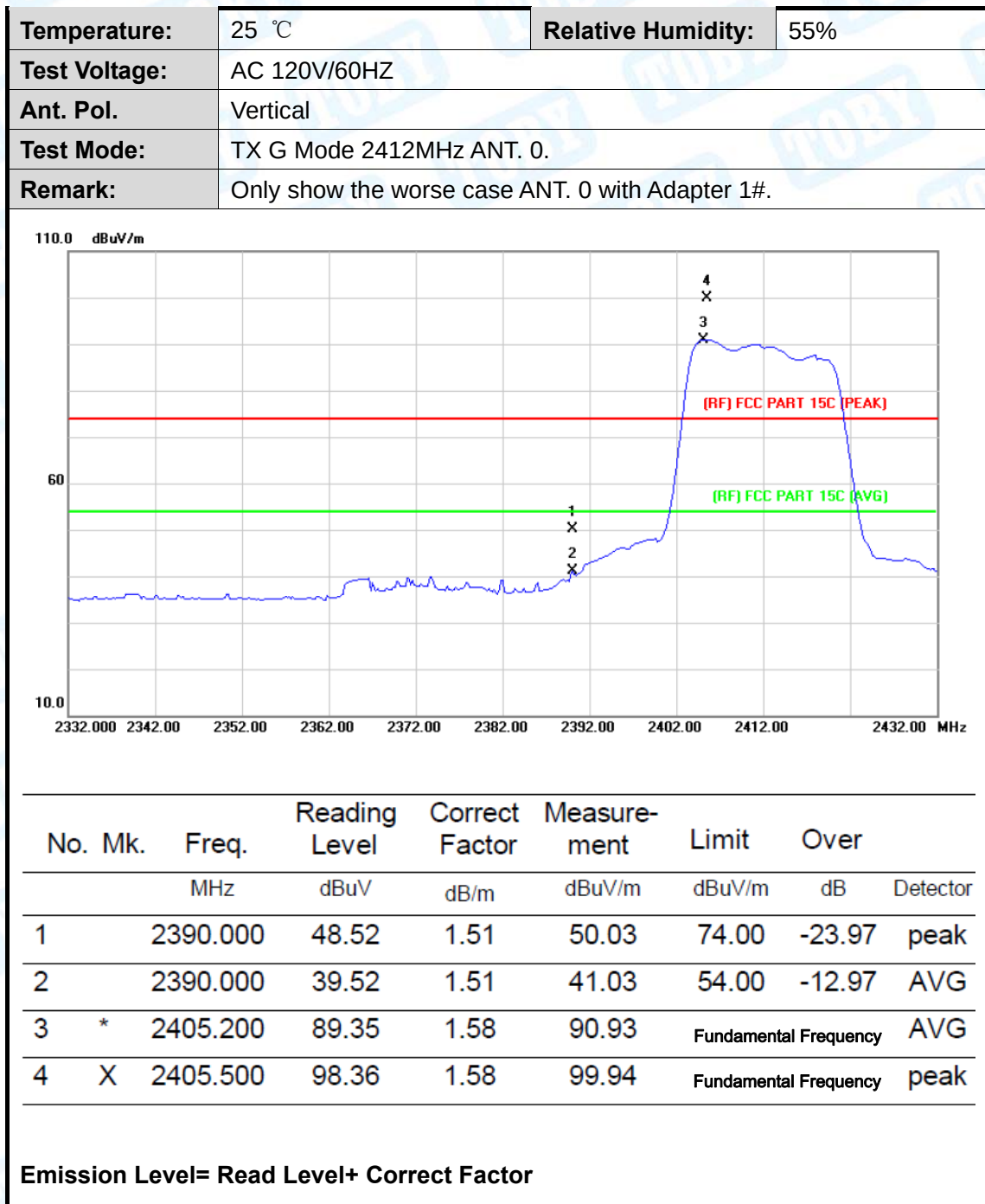


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2462.200	94.18	1.95	96.13	Fundamental Frequency		peak
2	*	2462.600	88.73	1.95	90.68	Fundamental Frequency		AVG
3		2483.500	46.10	2.10	48.20	74.00	-25.80	peak
4		2483.500	40.08	2.10	42.18	54.00	-11.82	AVG

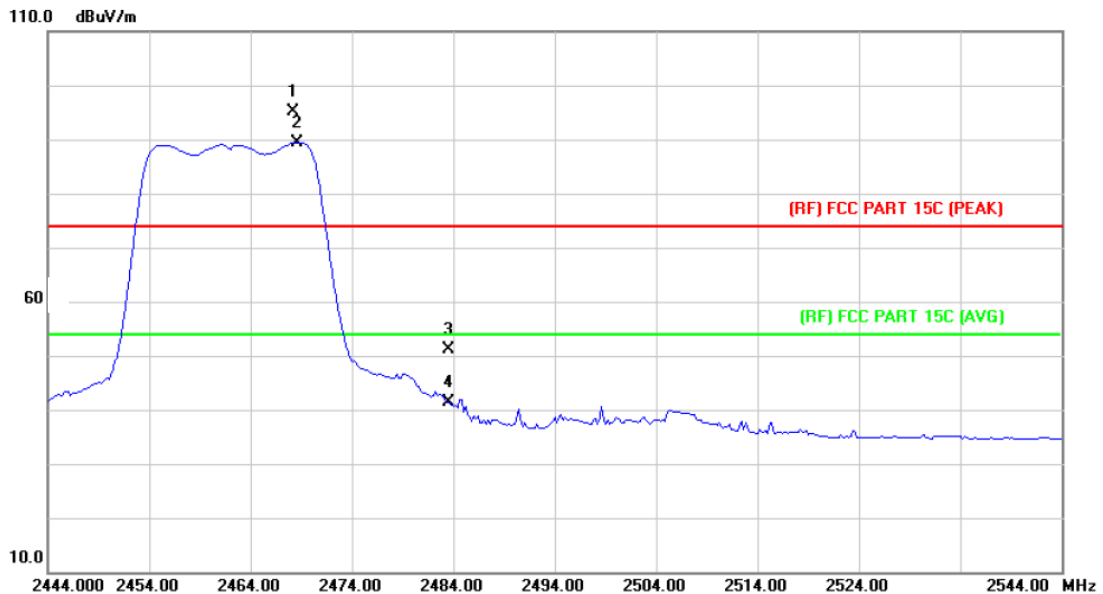
Emission Level= Read Level+ Correct Factor







Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz ANT. 0.		
Remark:	Only show the worse case ANT. 0 with Adapter 1#.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2468.200	93.17	2.00	95.17	Fundamental Frequency		peak
2	*	2468.600	87.39	2.00	89.39	Fundamental Frequency		AVG
3		2483.500	49.10	2.10	51.20	74.00	-22.80	peak
4		2483.500	39.37	2.10	41.47	54.00	-12.53	AVG

Emission Level= Read Level+ Correct Factor

