

Shenzhen Toby Technology Co., Ltd.

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Radio Test Report FCC ID: ACQ-VIP7300

IC: 109AS-VIP7300

Report No.		TBR-C-202202-0006-42
Applicant	:	ARRIS
Equipment Under Te	st (l	EUT)
EUT Name	:	TV DECODER
Model No.	:0	VIP7300
Series Model No.	:	
Brand Name	1	ARRIS
Sample ID	:	202202-0006-4-1#&202202-0006-4-2#
Receipt Date	:	2022-02-18
Test Date	:	2022-02-19 to 2022-03-30
Issue Date		2022-03-31
Standards	5	FCC Part 15 Subpart C 15.247 RSS-247 Issue 2 February 2017 RSS-Gen Issue 5 March 2019
Test Method	:	ANSI C63.10: 2013 KDB 558074 D01 15.247 Meas Guidance v05r02 KDB 662911 D01 Multiple Transmitter Output v02r01
Conclusions	-	PASS
		In the configuration tested, the EUT complied with the standards specified above.
Witness Engineer		: Juy
Engineer Supervisor	D	: LURN SU : Long Lai Ray Lai
Engineer Manager		: four dai. 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
TBR-C-202202-0006-42	Rev.01	Initial issue of report	2022-03-31
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1. General Information about EUT

1.1 Client Information

Applicant	-	ARRIS			
Address		01 Tournament Drive, Horsham PA, 19044			
Manufacturer		Shenzhen SDMC Technology Co.,Ltd.			
Address		19/F, Changhong Science & Technology Mansion, No.18, Keji South 12th Road, High-tech Industrial Park, Nanshan District, Shenzhen, China, 518000			

1.2 General Description of EUT (Equipment Under Test)

EUT Name		TV DECODER		
HVIN/Models No.	:	VIP7300		
Model Different		N/A		
0084		Operation Frequency:	802.11b/g/n(HT20)/ax(HE20): 2412MHz~2462MHz	
		Number of Channel:	11 channels	
		Antenna Gain:	1.88dBi FPC Antenna 1 2.95dBi FPC Antenna 2	
Product Description		Modulation Type:	802.11b: DSSS (DQPSK, DBPSK, CCK) 802.11g: OFDM (BPSK, QPSK,16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK,16QAM, 64QAM) 802.11ax: OFDMA (BPSK, QPSK,16QAM, 64QAM, 256QAM)	
	3	Bit Rate of Transmitter:	Up to 573Mbps	
Power Rating	-	Adapter1#:(DCT12W120100US-A0) Input: 100-240V~, 50/60Hz 0.3A max. Output: DC 12.0V, 1.0A Adapter2#:(TPQ-233A120100UW01) Input: 100-240V~, 50/60Hz 0.4A Output: DC 12.0V, 1.0A		
Software Version	2	10		
Hardware Version		DV8947-V5		
Remark:			ALL	
		and adapter provided by vided by TOBY test lab.	the applicant, the verified for the RF	

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

(3) Antenna information provided by the applicant.

The TV DECODER has different versions of RAM(2GB/3GB/4GB), more information please see the Appearance of PCB.



(4) 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 1	Note: CH 01~CH 11 for 802.11b/g/n(HT20)					

1.3 Block Diagram Showing the Configuration of System Tested

Conducted Test

	EUT	PTER	
ated Test			

1.4 Description of Support Units

	Equipment Information							
Name	Model	FCC ID/VOC	Manufacturer	Used "√"				
	The second second			<u></u>				
	Cable Information							
Number	Shielded Type	Ferrite Core	Length	Note				
		B						

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 Emission Test				
Description				
Mode 1 TX b Mode Channel 01				
For Radiated and RF Conducted Test				
Final Test Mode Description				
TX Mode b Mode Channel 01/06/11				
Mode 3 TX Mode g Mode Channel 01/06/11				
TX Mode n(HT20) Mode Channel 01/06/11				
Mode 5 TX Mode ax(HE20) Mode Channel 01/06/11				

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 802.11g Mode: OFDM 802.11n (HT20) Mode: MCS 0 802.11ax (HE20) Mode: MCS 0

- (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 RF setting.

	Test Software:	Ampak RFTe	stTool	
	Test M	lode: Continu	ously transmitt	ing
Mode	Data Data	Channel	Parameters	
wode	Data Rate	Channel	Ant. 1	Ant. 2
LU ST	CCK/ 1Mbps	01	55	52
802.11b	CCK/ 1Mbps	06	55	52
BU	CCK/ 1Mbps	11	55	52
	OFDM/ 6Mbps	01	38	35
802.11g	OFDM/ 6Mbps	06	38	35
	OFDM/ 6Mbps	11	40	38
	MCS 0	01	36	36
802.11n(HT20)	MCS 0	06	36	36
	MCS 0	11	38	38
	MCS 0	03	30	30
802.11ax(HE20)	MCS 0	06	30	30
	MCS 0	09	30	30

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended 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	±3.50 dB ±3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB



1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F.,Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, 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: 2017 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: 2017 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. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.

2. Test Summary

Standard Section		Test liters	Test Comple(s)	ludament	Demente
FCC	IC	Test Item	Test Sample(s)	Judgment	Remark
FCC 15.207(a)	RSS-Gen 8.8	Conducted Emission	202202-0006-4-1#	PASS	N/A
FCC 15.209 & 15.247(d)	RSS-Gen 8.9 & RSS 247 5.5	Radiated Unwanted Emissions	202202-0006-4-1#	PASS	N/A
FCC 15.203	RSS-247 6.8	Antenna Requirement	202202-0006-4-2#	PASS	N/A
FCC 15.247(a)(2)	RSS-247 5.2(a)	6dB Bandwidth	202202-0006-4-2#	PASS	N/A
	RSS-Gen 6.7	99% Occupied bandwidth	202202-0006-4-2#	PASS	N/A
FCC 15.247(b)(3)	RSS-247 5.4(d)	Peak Output Power and E.I.R.P	202202-0006-4-2#	PASS	N/A
FCC 15.247(e)	RSS-247 5.2(b)	Power Spectral Density	202202-0006-4-2#	PASS	N/A
FCC 15.247(d)	RSS-Gen 8.10& RSS-247 5.5	Band Edge Measurements	202202-0006-4-2#	PASS	N/A
FCC 15.207(a)	RSS-Gen 8.9 & RSS 247 5.5	Conducted Unwanted Emissions	202202-0006-4-2#	PASS	N/A
FCC 15.247(d)	RSS-Gen 8.10& RSS-247 5.5	Emissions in Restricted Bands	202202-0006-4-2#	PASS	N/A
		On Time and Duty Cycle	202202-0006-4-2#		N/A

Note: 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
Radiation Emission	EZ-EMC	EZ	FA-03A2RE+
RF Conducted Measurement	MTS-8310	MWRFtest	V2.0.0.0
RF Test System	JS1120	Tonscend	V2.6.88.0336

4. Test Equipment

Conducted Emissio	n Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 02, 2021	Jul. 01, 2022
anus -	Compliance			THE OF	2
RF Switching Unit	Direction Systems	RSU-A4	34403	Jul. 02, 2021	Jul. 01, 2022
	Inc			2	
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 02, 2021	Jul. 01, 2022
LISN	Rohde & Schwarz	ENV216	101131	Jul. 02, 2021	Jul. 01, 2022
Radiation Emission	Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jul. 02, 2021	Jul. 01, 2022
MXA Signal Analyzer	Agilent	N9020A	MY47380425	Sep. 03, 2021	Sep. 02, 2022
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 02, 2021	Jul. 01, 2022
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472	Feb. 26, 2022	Feb. 25, 2023
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Feb. 27, 2022	Feb. 26, 2024
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Dec. 05, 2021	Dec. 04, 2023
Horn Antenna	ETS-LINDGREN	3117	00143207	Feb. 26, 2022	Feb. 25, 2024
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	May 20, 2021	May 19, 2022
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 26, 2022	Feb. 25, 2024
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 06, 2021	Jul. 05, 2022
Pre-amplifier	SONOMA	310N	185903	Feb. 26, 2022	Feb. 25, 2023
Pre-amplifier	HP	8449B	3008A00849	Feb. 26, 2022	Feb. 25, 2023
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Sep. 03, 2021	Sep. 02, 2022
HF Amplifier	Tonscend	TAP051845	AP21C806141	Sep. 03, 2021	Sep. 02, 2022
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Sep. 03, 2021	Sep. 02, 2022
Antenna Conducted	I Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 02, 2021	Jul. 01, 2022
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jul. 02, 2021	Jul. 01, 2022
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 03, 2021	Sep. 02, 2022
Spectrum Analyzer	KEYSIGT	N9020B	MY60110172	Sep. 03, 2021	Sep. 02, 2022
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO26	Sep. 03, 2021	Sep. 02, 2022
and b	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO29	Sep. 03, 2021	Sep. 02, 2022
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 03, 2021	Sep. 02, 2022
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 03, 2021	Sep. 02, 2022
RF Control Unit	Tonsced	JS0806-2	21F8060439	Sep. 03, 2021	Sep. 02, 2022



5. Conducted Emission Test

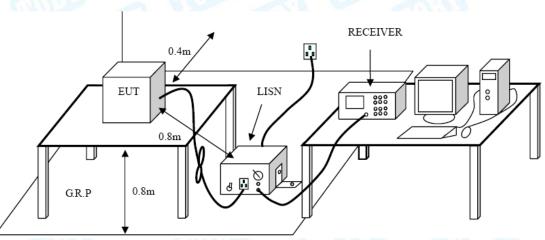
- 5.1 Test Standard and Limit
 - 5.1.1 Test Standard RSS-Gen 8.8 FCC Part 15.207
 - 5.1.2 Test Limit

	Maximum RF Line Voltage (dBμV)		
Frequency	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/ 50 uH 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 9 kHz, 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 inside test report.



6. Radiated and Conducted Unwanted Emissions

- 6.1 Test Standard and Limit
 - 6.1.1 Test Standard RSS-Gen 8.9 & RSS 247 5.5 FCC Part 15.209 & FCC Part 15.247(d)
 - 6.1.2 Test Limit

General field strength limits at frequencies Below 30MHz				
FrequencyField StrengthField StrengthMeasurement				
(MHz)	(µA/m)*	(microvolt/meter)**	Distance (meters)	
0.009~0.490	6.37/F (F in kHz)	2400/F(KHz)	300	
0.490~1.705	63.7/F (F in kHz)	24000/F(KHz)	30	
1.705~30.0	0.08	30	30	

Note: 1, The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2, *is for RSS Standard, **is for FCC Standard.

General field strength limits at frequencies above 30 MHz		
Frequency (MHz)	Field strength (µV/m at 3 m)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

General field strength limits at frequencies Above 1000MHz			
Frequency	Distance of 3m (dBuV/m)		
(MHz)	Peak	Average	
Above 1000	74	54	

Note:

(1) The tighter limit applies at the band edges.

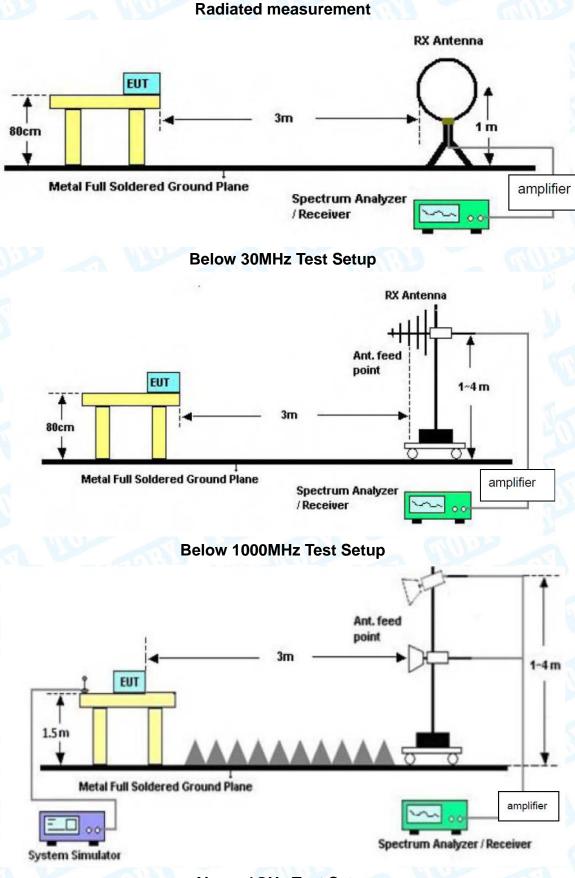
(2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.



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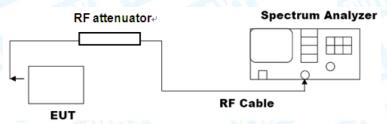
6.2 Test Setup



Above 1GHz Test Setup



Conducted measurement



6.3 Test Procedure

---Radiated measurement

● The measuring distance of 3m shall be used for measurements at frequency up to 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.

• 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.

• The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

• 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.

● If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Below 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.

● Testing frequency range 30MHz-1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection. Testing frequency range 9KHz-150Hz the measuring instrument use VBW=200Hz with Quasi-peak detection. Testing frequency range 9KHz-30MHz the measuring instrument use VBW=9kHz with Quasi-peak detection.

● 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.

•For the actual test configuration, please see the test setup photo.

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--- Conducted measurement

Reference level measurement

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to≥1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW≥[3*RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

• Emission level measurement

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW≥[3*RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

6.4 Deviation From Test Standard

No deviation

6.5 EUT Operating Mode

Please refer to the description of test mode.

6.6 Test Data

Radiated measurement please refer to the Attachment B inside test report. Conducted measurement please refer to the Appendix C section 6.



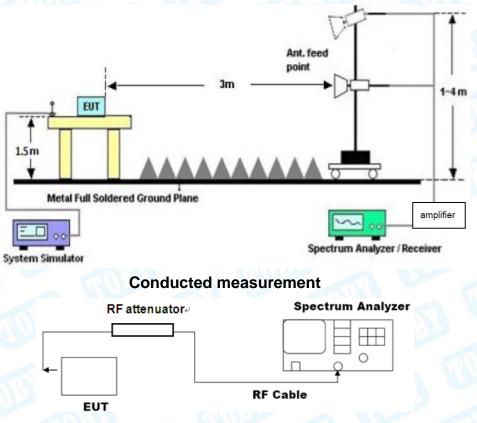
7. Restricted Bands Requirement

- 7.1 Test Standard and Limit
 - 7.1.1 Test Standard RSS-Gen 8.10 & RSS 247 5.5 FCC Part 15.205 & FCC Part 15.247(d)
 - 7.1.2 Test Limit

Restricted Frequency	Distance Meters(at 3m)		
Band (MHz)	Peak (dBuV/m)	Average (dBuV/m)	
2310 ~2390	74	54	
2483.5 ~2500	74	54	
	Peak (dBm)see 7.3 e)	Average (dBm) see 7.3 e)	
2310 ~2390	-21.20	-41.20	
2483.5 ~2500	-21.20	-41.20	

Note: According the ANSI C63.10 11.12.2 antenna-port conducted measurements may also be used as an alternative to radiated measurements for determining compliance in the restricted frequency bands requirements. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test forcabinet/case emissions is required.

7.2 Test Setup



Radiated measurement



7.3 Test Procedure

---Radiated measurement

• 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.

• The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

● 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.

• The Peak Value and average value both need to comply with applicable limit above 1 GHz.

● 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.

• For the actual test configuration, please see the test setup photo.

--- Conducted measurement

a) Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 11.12.2.3 through 11.12.2.5 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP (see 11.12.2.6 for guidance on determining the applicable antenna gain).

c) Add the appropriate maximum ground reflection factor to the EIRP (6 dB for frequencies \leq 30 MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for frequencies > 1000 MHz).

d) For MIMO devices, measure the power of each chain and sum the EIRP of all chains in linear terms (i.e., watts and mW).

e) Convert the resultant EIRP to an equivalent electric field strength using the following relationship:

$E = EIRP-20 \log d + 104.8$

where

E is the electric field strength in dBuV/m

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in m

f) Compare the resultant electric field strength level with the applicable regulatory limit.

g) Perform the radiated spurious emission test.



7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Mode

Please refer to the description of test mode.

7.6 Test Data

Remark: The test uses antenna-port conducted measurements as an alternative to radiated measurements for determining compliance in the restricted frequency bands requirements.

Please refer to the Appendix C section 5&8.

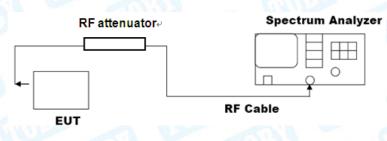


8. Bandwidth Test

- 8.1 Test Standard and Limit
 - 8.1.1 Test Standard RSS-Gen 6.7 & RSS 247 5.2(a) FCC Part 15.205 & FCC Part 15.247(d)
 - 8.1.2 Test Limit

	Test Item	Limit	Frequency Range(MHz)
-	-6dB bandwidth (DTS bandwidth)	>=500 KHz	2400~2483.5
	99% occupied bandwidth		2400~2483.5

8.2 Test Setup



8.3 Test Procedure

---DTS bandwidth

- The steps for the first option are as follows:
- a) Set RBW = 100 kHz.
- b) Set the VBW≥[3*RBW].
- c) Detector = peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

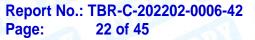
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

---occupied bandwidth

• The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.





c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

d) Step a) through step c) might require iteration to adjust within the specified range.e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequence between these two frequencies.

 h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

8.4 Deviation From Test Standard

No deviation

8.5 EUT Operating Mode

Please refer to the description of test mode.

8.6 Test Data

Please refer to the Appendix C section 1&2.

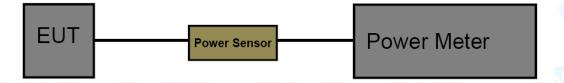


9. Peak Output Power

- 9.1 Test Standard and Limit
 - 9.1.1 Test Standard RSS 247 5.4 FCC Part 15.247(b)(3)
 - 9.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)	
Peak Output Power	not exceed 1 W or 30dBm	2400 2482 5	
E.I.R.P	not exceed 4 W or 36dBm	- 2400~2483.5	

9.2 Test Setup



9.3 Test Procedure

• 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 Mode

Please refer to the description of test mode.

9.6 Test Data

Please refer to the Appendix C section 3.

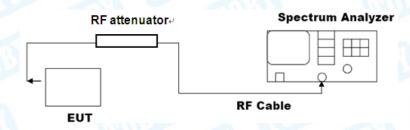


10. Power Spectral Density

- 10.1 Test Standard and Limit
 - 10.1.1 Test Standard RSS 247 5.2(b) FCC Part 15.247(e)
 - 10.1.2 Test Limit

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 following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to 3 kHz≤RBW≤100 kHz.
- d) Set the VBW ≥[3*RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

10.4 Deviation From Test Standard

No deviation

10.5 Antenna Connected Construction

Please refer to the description of test mode.

10.6 Test Data

Please refer to the Appendix C section 4.



11. Antenna Requirement

11.1 Test Standard and Limit

- 11.1.1 Test Standard RSS 247 6.8 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 1.28dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

11.4 Test Data

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

Antenna Type	
6	Permanent attached antenna
2 6	Unique connector antenna
600	Professional installation antenna

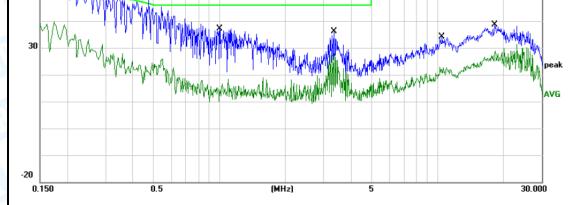
Attachment A-- Conducted Emission Test Data

Temperature:	24.4 ℃	Re	elative Humi	dity:	44%	CUF
Test Voltage:	AC 120V/60Hz		2 19			
Terminal:	Line			19	UL	
Test Mode:	Mode 1 with ad	apter 1#	600		5	NOU
Remark:	Only worse cas	e RAM 3GB is	reported.			2
	Mary Many Mary Mary Mary Mary Mary Mary Mary Mar	h <mark>hliphinks proposition and blockstares and blockst</mark>		Market Market		Per av
-20 0.150	0.5 Reading	(MHz)	5 Measure-			30.000
No. Mk. F	req. Level	Factor	ment	Limit	Over	
I	MHz dBuV	dB	dBuV	dBuV	dB	Detector
1 * 0.1	1620 38.70	11.63	50.33		-15.03	QP
	162038.70162023.75	11.63 11.63	50.33 35.38	65.36		
2 0.1				65.36 55.36		QP AVG QP
2 0. ⁻ 3 0.3	1620 23.75	11.63	35.38	65.36 55.36 59.06	-19.98	AVG
2 0.7 3 0.3 4 0.3	162023.75346031.59	11.63 11.52	35.38 43.11	65.36 55.36 59.06 49.06	-19.98 -15.95	AV0 QP
2 0.7 3 0.3 4 0.3 5 1.0	162023.75346031.59346011.48	11.63 11.52 11.52	35.38 43.11 23.00	65.36 55.36 59.06 49.06 56.00	-19.98 -15.95 -26.06	AVG QP AVG
2 0.7 3 0.3 4 0.3 5 1.0 6 1.0	162023.75346031.59346011.48002016.27	11.63 11.52 11.52 11.19	35.38 43.11 23.00 27.46	65.36 55.36 59.06 49.06 56.00 46.00	-19.98 -15.95 -26.06 -28.54	AVC QP AVC QP
2 0.7 3 0.3 4 0.3 5 1.0 6 1.0 7 3.3	162023.75346031.59346011.48002016.2700201.41	11.63 11.52 11.52 11.19 11.19	35.38 43.11 23.00 27.46 12.60	65.36 55.36 59.06 49.06 56.00 46.00 56.00	-19.98 -15.95 -26.06 -28.54 -33.40	AVC QP AVC QP AVC
2 0.7 3 0.3 4 0.3 5 1.0 6 1.0 7 3.3 8 3.3	162023.75346031.59346011.48002016.2700201.41350023.85	11.63 11.52 11.52 11.19 11.19 10.21	35.38 43.11 23.00 27.46 12.60 34.06	65.36 55.36 59.06 49.06 56.00 46.00 46.00	-19.98 -15.95 -26.06 -28.54 -33.40 -21.94	AVC QP AVC QP AVC QP
2 0.7 3 0.3 4 0.3 5 1.0 6 1.0 7 3.3 8 3.3 9 10.4	162023.75346031.59346011.48002016.2700201.41350023.85350018.90	11.63 11.52 11.52 11.19 11.19 10.21 10.21	35.38 43.11 23.00 27.46 12.60 34.06 29.11	65.36 55.36 59.06 49.06 56.00 46.00 56.00 46.00 60.00	-19.98 -15.95 -26.06 -28.54 -33.40 -21.94 -16.89	AVC QP AVC QP AVC QP AVC
2 0.7 3 0.3 4 0.3 5 1.0 6 1.0 7 3.3 8 3.3 9 10.4 10 10.4	162023.75346031.59346011.48002016.2700201.41350023.85350018.90458017.00	11.63 11.52 11.52 11.19 11.19 10.21 10.21 10.25	35.38 43.11 23.00 27.46 12.60 34.06 29.11 27.25	65.36 55.36 59.06 49.06 56.00 46.00 56.00 46.00 50.00	-19.98 -15.95 -26.06 -28.54 -33.40 -21.94 -16.89 -32.75	AVC QP AVC QP AVC QP AVC QP

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)



Test Voltage: AC 120V/60Hz Terminal: Neutral Test Mode: Mode 1 with adapter 1# Remark: Only worse case RAM 3GB is reported. 80.0 dBuV QP:	Temperature:	24.4 ℃	Relative Humidity:	44%
Test Mode: Mode 1 with adapter 1# Remark: Only worse case RAM 3GB is reported. 80.0 dBuV	Test Voltage:	AC 120V/60Hz		III -
Remark: Only worse case RAM 3GB is reported. 80.0 dBuV	Terminal:	Neutral		
80.0 dBuV	Test Mode:	Mode 1 with adap	iter 1#	
QP:	Remark:	Only worse case	RAM 3GB is reported.	CUID
	80.0 dBuV			
	Aat			



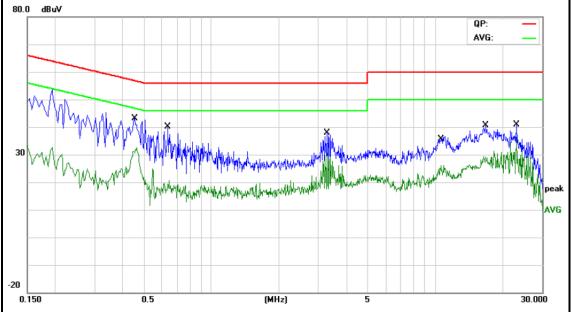
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1620	38.70	11.63	50.33	65.36	-15.03	QP
2		0.1620	23.75	11.63	35.38	55.36	-19.98	AVG
3		0.3460	31.59	11.52	43.11	59.06	-15.95	QP
4		0.3460	11.48	11.52	23.00	49.06	-26.06	AVG
5		1.0020	16.27	11.19	27.46	56.00	-28.54	QP
6		1.0020	1.41	11.19	12.60	46.00	-33.40	AVG
7		3.3500	23.85	10.21	34.06	56.00	-21.94	QP
8		3.3500	18.90	10.21	29.11	46.00	-16.89	AVG
9		10.4580	17.00	10.25	27.25	60.00	-32.75	QP
10		10.4580	9.31	10.25	19.56	50.00	-30.44	AVG
11		18.3060	22.96	10.28	33.24	60.00	-26.76	QP
12		18.3060	17.27	10.28	27.55	50.00	-22.45	AVG
Rema	ark:							

Remark: 1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)



Report No.: TBR-C-202202-0006-42 Page: 28 of 45

Temperature:	24.4 ℃	Relative Humidity:	44%
Test Voltage:	AC 120V/60Hz	AUDE A	
Terminal:	Line	ansy	n nur
Test Mode:	Mode 1 with adapter 2#	10	AR I
Remark:	Only worse case RAM 3G	B is reported.	



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.4540	27.07	11.46	38.53	56.80	-18.27	QP
2		0.4540	20.64	11.46	32.10	46.80	-14.70	AVG
3		0.6380	17.48	11.44	28.92	56.00	-27.08	QP
4		0.6380	5.32	11.44	16.76	46.00	-29.24	AVG
5		3.2860	25.87	10.21	36.08	56.00	-19.92	QP
6		3.2860	19.48	10.21	29.69	46.00	-16.31	AVG
7		10.5820	21.45	10.25	31.70	60.00	-28.30	QP
8		10.5820	14.49	10.25	24.74	50.00	-25.26	AVG
9		16.8380	23.52	10.35	33.87	60.00	-26.13	QP
10		16.8380	16.03	10.35	26.38	50.00	-23.62	AVG
11		23.1299	27.92	10.43	38.35	60.00	-21.65	QP
12	*	23.1299	25.16	10.43	35.59	50.00	-14.41	AVG

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)



	22						
Temperature:	24.4	4℃		Relative H	lumidity:	44%	
Test Voltage:	AC	120V/60Hz			13		M102
Terminal:	Neu	utral	100	av		1200	
Test Mode:	Mo	de 1 with ada	apter 2#			Ultra	
Remark:	Onl	y worse case	e RAM 3GB	is reported.			TUD
80.0 dBuV							
30 M M M M	MMM	M. M. M. M. Maryot M. M. M. Maryot M. M. Maryot	i Netreshtradvegeersframstr Metremennen op helpelanteg		Mulium Mulium Mulium	QP: AVG:	AVG
-20 0.150	0.9	5	(MHz)	5			30.000
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1 0	.1620	32.93	11.60	44.53	65.36	-20.83	QP
2 0	.1620	17.38	11.60	28.98	55.36	-26.38	AVG
3 0	.4500	29.89	11.49	41.38	56 87	-15.49	QP

NO. 101	K. TTEY.	Level	racior	ment	2	010	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1620	32.93	11.60	44.53	65.36	-20.83	QP
2	0.1620	17.38	11.60	28.98	55.36	-26.38	AVG
3	0.4500	29.89	11.49	41.38	56.87	-15.49	QP
4 *	0.4500	24.16	11.49	35.65	46.87	-11.22	AVG
5	1.1580	15.67	11.08	26.75	56.00	-29.25	QP
6	1.1580	9.90	11.08	20.98	46.00	-25.02	AVG
7	3.2820	26.70	10.15	36.85	56.00	-19.15	QP
8	3.2820	20.97	10.15	31.12	46.00	-14.88	AVG
9	10.4580	19.61	10.17	29.78	60.00	-30.22	QP
10	10.4580	12.36	10.17	22.53	50.00	-27.47	AVG
11	16.3380	22.32	10.41	32.73	60.00	-27.27	QP
12	16.3380	14.90	10.41	25.31	50.00	-24.69	AVG

Remark: 1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

Attachment B--Unwanted Emissions Data

---Radiated Unwanted Emissions

9 KHz~30 MHz

From 9 KHz to 30 MHz: 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

emperature:	23.5 ℃	Relati	ve Humidity:	46%
est Voltage:	AC 120V/60Hz			
nt. Pol.	Horizontal	1 Part	COLD P	
est Mode:	Mode 2 with ada	apter 1#		
emark:	Only worse case	e is reported.	2	The second se
80.0 dBuV/m				
30	A Contraction of the second se	3 mph Manna	A.	5C 3M Radiation Margin -6 dB
-20 30.000 40	50 60 70 80	(MHz)	300 400 5	

	MHz	dBuV					
		ubuv	dB/m	dBuV/m	dBuV/m	dB	Detector
1 4	16.3402	35.21	-22.36	12.85	40.00	-27.15	QP
2 7	75.1822	37.40	-23.15	14.25	40.00	-25.75	QP
3 1	53.7385	39.61	-21.36	18.25	43.50	-25.25	QP
4 * 3	34.8589	50.42	-15.17	35.25	46.00	-10.75	QP
5 5	24.5541	33.47	-9.89	23.58	46.00	-22.42	QP
6 5	62.6624	35.49	-8.91	26.58	46.00	-19.42	QP

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

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. QuasiPeak (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = QuasiPeak (dBµV/m)-Limit QPK(dBµV/m)

Tar		00.5	n.	П	elative Hum	ditu	46%	
	nperature:	23.5		R	elative Hum	laity:	40%	-
	t Voltage:		20V/60Hz			000	-	1 L
	. Pol.	Verti						
	t Mode:	3333	e 2 with adap		2		-	
	nark:	Only	worse case	is reported.			0.1	
80.	0 dBuV/m							
						(RF)FCC	C 15C 3M Radiatio Margin -	
30			Å	\$.		6		www
	1 1	3	\bigwedge	1		manual	month	Maur
	www.haylw	, why	L. M	Why w	Mannan	he Almah.		
			www.					
-20 31	0.000 40	50 60	70	(MHz)	300	400	500 600 700	1000.00
	0.000 40	30 00				400	500 000 100	1000.00
	lo. Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
	10. IVIK.			Footor	in a cont			
N		<u> </u>	Level	Factor	ment			D ()
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	n dB	
N 1	3	<u> </u>					n dB	Detector QP
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	n dB -21.56	
1	4	MHz 4.0365	dBuV 34.86	dB/m -16.42	dBuV/m 18.44	dBuV/m 40.00	dB -21.56 -21.75	QP
1 2 3	4 * 7	MHz 4.0365 8.3318 5.1822	dBuV 34.86 41.25 51.50	dB/m -16.42 -23.00 -23.15	dBuV/m 18.44 18.25 28.35	dBuV/m 40.00 40.00 40.00	dB -21.56 -21.75 -11.65	QP QP QP
1 2 3 4	4 * 7 13	MHz 4.0365 8.3318 5.1822 34.5592	dBuV 34.86 41.25 51.50 41.85	dB/m -16.42 -23.00 -23.15 -22.60	dBuV/m 18.44 18.25 28.35 19.25	dBuV/m 40.00 40.00 40.00 43.50	n dB -21.56 -21.75 -11.65 -24.25	QP QP QP QP
1 2 3	4 * 7 13 15	MHz 4.0365 8.3318 5.1822	dBuV 34.86 41.25 51.50 41.85 48.05	dB/m -16.42 -23.00 -23.15	dBuV/m 18.44 18.25 28.35	dBuV/m 40.00 40.00 40.00	n dB -21.56 -21.75 -11.65 -24.25 -16.93	QP QP QP QP

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

Remark:

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = QuasiPeak (dBµV/m)-Limit QPK(dBµV/m)

			2	2										
Temp	perature	:	23.5	°℃	3			Relative H	lumid	ity:	4	16%		-
Test '	Voltage	:	AC	120	V/60)Hz		6	13	3	×.			AND.
Ant. I	Pol.		Hori	zon	tal	J.C		av			5			
Test	Mode:		Mod	le 2	with	n adap	oter 2#	32	-	N				
Rema	ark:		Only	/ wo	orse	case	is reported.		20				1	NO
80.0	dBuV/m													
					\square								1	
				_	\square					(RF)FCC	15C 3	M Rad	diation	
_				_	\square							Mar	gin -6	dB
-					Ļŗ				6				-	
30									Å					
								5	$ \Lambda_{i} $	A Make	m	m	m	man -
W	white	2	Marker 1	3	m	m	Mymmymm	Mulumunumbergen	W T					
_		+	Vill And -									-	-	
20														
30.0	000 40	50	60	70			(MHz)	3	300	400	500	600	700	1000.00
				F	Rea	ding	Correct	Measure	9-					
No	o. Mk.	F	req.		Lev	-	Factor	ment		mit	(Ove	er	
		M	1Hz		dB	ωV	dB/m	dBuV/m	d	BuV/m	ı	dB		Detecto
1		34.0	0365		31.	.66	-16.42	15.24	4	0.00	-	-24.	76	QP
2		47.6	6586		35.	.22	-22.78	12.44	4	0.00	-	-27.	56	QP
3		75.1	1822		35	.29	-23.15	12.14	4	0.00	-	-27.	86	QP
4	1	118.	6014		38	.70	-22.45	16.25	4	3.50	-	-27.	25	QP
5	2	289.	0021		36	.66	-16.52	20.14	4	6.00	-	-25.	86	QP

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

334.8589

Remark:

6

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

48.72

-15.17

33.55

46.00

-12.45

QP

3. Margin (dB) = QuasiPeak (dBµV/m)-Limit QPK(dBµV/m)

		WILL				
Temperature:	23.5℃		Relative Hu	imidity:	46%	
Test Voltage:	AC 120V/60	Hz		130	5	NUP
Ant. Pol.	Vertical	NUC	AV		11	
Test Mode:	Mode 2 with	adapter 2#			Ula	-
Remark:	Only worse	case is report	ed.	39 .		10D
80.0 dBuV/m						
				(RF)FCC	15C 3M Radiation Margin -6 d	B
				_		
30	m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mannahum	America	man	
-20 30.000 40 50	0 60 70 80	(MH:	2] 3	00 400	500 600 700	1000.000
No. Mk.	Rea Freq. Le	ding Corre vel Fact		e- Limit	Over	
	MHz dB	uV dB/m	dBuV/m	n dBuV/	m dB	Detector
1 34	.5173 35	.74 -16.7	7 18.97	40.0	0 -21.03	QP
2 38	.3462 38	.55 -18.7	0 19.85	40.0	0 -20.15	QP
3 * 47	.9940 46	.47 -22.8	9 23.58	40.0	0 -16.42	QP
4 74	.1351 46	.41 -23.2	7 23.14	40.0	0 -16.86	QP
5 118	8.6014 47	.59 -22.4	5 25.14	43.5	0 -18.36	QP
6 334	.8589 43	.28 -15.1	7 28.11	46.0	0 -17.89	QP

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

Remark:

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = QuasiPeak (dBµV/m)-Limit QPK(dBµV/m)

Above 1GHz

Temperature:	26 ℃	Relative Humidity:	54%				
Test Voltage:	AC 120V/60HZ		4	N. Com			
Ant. Pol.	Horizontal		CUID .				
Test Mode:	TX B Mode 2412MHz v	TX B Mode 2412MHz with adapter 1#					
Remark:	Only worse case is repo	orted.		W			

No.	Frequency (MHz)	Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1 *	4824.050	53.67	-8.58	45.09	54.00	-8.91	AVG	Р
2	4824.118	59.66	-8.58	51.08	74.00	-22.92	peak	Ρ

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m) 4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	26 ℃	Relative Humidity:	54%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Vertical	and a				
Test Mode:	TX B Mode 2412MHz with	TX B Mode 2412MHz with adapter 1#				
Remark:	Only worse case is report	rted.				

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1	4874.021	58.70	-8.47	50.23	74.00	-23.77	peak	Р
2 *	4874.021	53.85	-8.47	45.38	54.00	-8.62	AVG	Р

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)
- 4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.



Temperature:	26 ℃	Relative Humidity:	54%
Test Voltage:	AC 120V/60HZ		MU2
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz w	vith adapter 1#	NUL OF
Remark:	Only worse case is repo	orted.	MILL

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1 *	4874.027	53.63	-8.47	45.16	54.00	-8.84	AVG	Ρ
2	4874.148	60.45	-8.47	51.98	74.00	-22.02	peak	Ρ

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	26 ℃	Relative Humidity:	54%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Vertical					
Test Mode:	TX B Mode 2437MHz v	TX B Mode 2437MHz with adapter 1#				
Remark:	Only worse case is repo	orted.	CON B			

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBu∀/m)		Margin (dB)	Detector	P/F
1	4873.704	56.62	-8.47	48.15	74.00	-25.85	peak	Р
2 *	4874.103	49.94	-8.47	41.47	54.00	-12.53	AVG	Ρ

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.



Temperature:	26 ℃	Relative Humidity:	54%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX B Mode 2462MHz v	TX B Mode 2462MHz with adapter 1#					
Remark:	Only worse case is rep	orted.	MIL				

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1 *	4924.032	55.44	-8.33	47.11	54.00	-6.89	AVG	Р
2	4924.268	60.03	-8.33	51.70	74.00	-22.30	peak	Ρ

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	26 ℃	Relative Humidity:	54%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX B Mode 2462MHz w	vith adapter 1#	A A				
Remark:	Only worse case is repo	orted.	TUL ST				

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1 *	4924.048	54.00	-8.33	45.67	54.00	-8.33	AVG	Ρ
2	4924.057	58.80	-8.33	50.47	74.00	-23.53	peak	Ρ

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.



Temperature:	26 ℃	Relative Humidity:	54%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX G Mode 2412MHz w	ith adapter 1#					
Remark:	Only worse case is repo	rted.	ALL P				

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1	4823.712	51.71	-8.58	43.13	74.00	-30.87	peak	Р
2 *	4823.972	39.90	-8.58	31.32	54.00	-22.68	AVG	Ρ

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	26 ℃	Relative Humidity:	54%			
Test Voltage:	AC 120V/60HZ	GUUD -				
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX G Mode 2412MHz with	adapter 1#				
Remark:	Only worse case is reported	ed.				

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBu∀/m)		Margin (dB)	Detector	P/F
1 *	4823.951	39.88	-8.58	31.30	54.00	-22.70	AVG	Р
2	4824.008	55.35	-8.58	46.77	74.00	-27.23	peak	Ρ

Remark:

Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.



Temperature:	26℃	Relative Humidity:	54%			
Test Voltage:	AC 120V/60HZ		anu?			
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX G Mode 2437MH	Hz with adapter 1#				
Remark:	Only worse case is	reported.	THE P			

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1 *	4874.064	40.94	-8.47	32.47	54.00	-21.53	AVG	Р
2	4874.376	58.14	-8.47	49.67	74.00	-24.33	peak	Ρ

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	26 ℃	Relative Humidity:	54%
Test Voltage:	AC 120V/60HZ	GUD A	Nuc.
Ant. Pol.	Vertical	anB1	
Test Mode:	TX G Mode 2437MHz w	th adapter 1#	No.
Remark:	Only worse case is repo	rted.	

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1 *	4874.179	44.11	-8.47	35.64	54.00	-18.36	AVG	Ρ
2	4874.286	56.98	-8.47	48.51	74.00	-25.49	peak	Ρ

Remark:

Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.



Temperature:	26 ℃	Relative Humidity:	54%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		E S
Test Mode:	TX G Mode 2462MH	Hz with adapter 1#	
Remark:	Only worse case is	reported.	6000

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBuV/m)			Detector	P/F
1 *	4924.102	44.25	-8.33	35.92	54.00	-18.08	AVG	Ρ
2	4924.343	56.88	-8.33	48.55	74.00	-25.45	peak	Ρ

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	26 ℃	Relative Humidity:	54%
Test Voltage:	AC 120V/60HZ		1
Ant. Pol.	Vertical	CORD -	6000
Test Mode:	TX G Mode 2462MHz wi	th adapter 1#	
Remark:	Only worse case is report	ted.	1

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1 *	4923.956	39.95	-8.33	31.62	54.00	-22.38	AVG	Ρ
2	4924.327	56.26	-8.33	47.93	74.00	-26.07	peak	Ρ

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)

4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.



Temperature:	26 ℃	Relative Humidity:	54%		
Test Voltage:	AC 120V/60HZ		muy-		
Ant. Pol.	Horizontal	Horizontal			
Test Mode:	TX n(HT20) Mode 2	412MHz with adapter 1#			
Remark:	Only worse case is i	reported.	millor .		

No.	Frequency (MHz)	Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1	4823.770	51.31	-8.58	42.73	74.00	-31.27	peak	Р
2 *	4823.894	40.62	-8.58	32.04	54.00	-21.96	AVG	Ρ

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	26 ℃	Relative Humidity:	54%
Test Voltage:	AC 120V/60HZ	AUL A	
Ant. Pol.	Vertical	anisy	
Test Mode:	TX n(HT20) Mode 2412M	IHz with adapter 1#	
Remark:	Only worse case is report	ted.	IV ST

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBu∀/m)		Margin (dB)	Detector	P/F
1 *	4824.017	42.25	-8.58	33.67	54.00	-20.33	AVG	Ρ
2	4824.054	53.94	-8.58	45.36	74.00	-28.64	peak	Ρ

Remark:

Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.



Temperature:	26 °C	Relative Humidity:	54%			
Temperature.	200	Relative Humany.	5478			
Test Voltage:	AC 120V/60HZ	CILL I				
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX n(HT20) Mode 243	7MHz with adapter 1#				
Remark:	Only worse case is rep	orted.	THE P			

No.	Frequency (MHz)	Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1 *	4874.398	43.90	-8.47	35.43	54.00	-18.57	AVG	Р
2	4874.409	54.87	-8.47	46.40	74.00	-27.60	peak	Ρ

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

26 ℃	Relative Humidity:	54%
AC 120V/60HZ		
Vertical		
TX n(HT20) Mode 2437MI	Hz with adapter 1#	
Only worse case is reported	ed.	NUS A
	AC 120V/60HZ Vertical TX n(HT20) Mode 2437M	AC 120V/60HZ

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1	4873.948	51.63	-8.47	43.16	74.00	-30.84	peak	Р
2 *	4873.964	40.03	-8.47	31.56	54.00	-22.44	AVG	Ρ

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)

4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.



Temperature:	26 °C	Relative Humidity:	54%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX n(HT20) Mode 2462	MHz with adapter 1#				
Remark:	Only worse case is repo	rted.	mue			

No.	Frequency (MHz)	Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1 *	4923.601	40.09	-8.33	31.76	54.00	-22.24	AVG	Р
2	4923.877	52.87	-8.33	44.54	74.00	-29.46	peak	Ρ

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	26 ℃	Relative Humidity:	54%
Test Voltage:	AC 120V/60HZ	MULL A	
Ant. Pol.	Vertical	anis.	
Test Mode:	TX n(HT20) Mode 2462	MHz with adapter 1#	
Remark:	Only worse case is repo	rted.	IV ST

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBuV/m)			Detector	P/F
1 *	4923.905	40.77	-8.33	32.44	54.00	-21.56	AVG	Ρ
2	4924.384	49.89	-8.33	41.56	74.00	-32.44	peak	Ρ

Remark:

Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.



Temperature:	26 °C	Relative Humidity:	54%		
Test Voltage:	AC 120V/60HZ				
Ant. Pol.	Horizontal	Horizontal			
Test Mode:	TX ax(HE20) Mode 2	2412MHz with adapter 1#			
Remark:	Only worse case is re	eported.	61102		

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBuV/m)			Detector	P/F
1 *	4823.953	46.15	-8.58	37.57	54.00	-16.43	AVG	Р
2	4823.998	56.34	-8.58	47.76	74.00	-26.24	peak	Ρ

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	26 °C	Relative Humidity:	54%
Test Voltage:	AC 120V/60HZ	AUD A	
Ant. Pol.	Vertical	60183	
Test Mode:	TX ax(HE20) Mode 2412	MHz with adapter 1#	
Remark:	Only worse case is repor	ted.	IU ST

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBu∀/m)		Margin (dB)	Detector	P/F
1	4823.508	54.41	-8.58	45.83	74.00	-28.17	peak	Р
2 *	4824.012	47.36	-8.58	38.78	54.00	-15.22	AVG	Ρ

Remark:

Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.



Temperature:	26℃	Relative Humidity:	54%			
Temperature.	200	Relative Humaity.	54 /8			
Test Voltage:	AC 120V/60HZ	CILLS .	autre			
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX ax(HE20) Mode 24	37MHz with adapter 1#				
Remark:	Only worse case is rep	ported.	THE P			

No.	Frequency (MHz)	Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1	4873.695	50.23	-8.47	41.76	74.00	-32.24	peak	Р
2 *	4874.402	43.57	-8.47	35.10	54.00	-18.90	AVG	Ρ

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)
- 4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	26 ℃	Relative Humidity:	54%
Test Voltage:	AC 120V/60HZ	AUD A	
Ant. Pol.	Vertical	CON31	A MUL
Test Mode:	TX ax(HE20) Mode 2437	MHz with adapter 1#	
Remark:	Only worse case is report	ted.	

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1	4874.195	49.70	-8.47	41.23	74.00	-32.77	peak	Ρ
2 *	4874.486	43.51	-8.47	35.04	54.00	-18.96	AVG	Ρ

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.



Temperature:	26 ℃	Relative Humidity:	54%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX ax(HE20) Mode 246	2MHz with adapter 1#				
Remark:	Only worse case is repo	orted.	muer			

No.	Frequency (MHz)	Reading (dBu∀)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1	4924.403	66.74	-18.33	48.41	74.00	-25.59	peak	Р
2 *	4924.443	56.40	-18.33	38.07	54.00	-15.93	AVG	Ρ

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	26 ℃	Relative Humidity:	54%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX ax(HE20) Mode 2462M	MHz with adapter 1#	
Remark:	Only worse case is reported	ed.	IUL A

No.	Frequency (MHz)	Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	4923.624	51.88	-18.33	33.55	54.00	-20.45	AVG	Р
2	4924.175	66.73	-18.33	48.40	74.00	-25.60	peak	Р

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)

3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)

4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

-----END OF REPORT-----