FCC C2PC Test Report

FCC ID	:	**SQG-WB45NBT**
Equipment	:	**45 Series WB module with Bluetooth**
Model No.	:	**WB45NBT**
Brand Name	:	**Laird Connectivity**
Applicant	:	**Laird Connectivity LLC**
Address	:	**W66N220 Commerce Court, Cedarburg, WI 53012 United States Of America**
Standard	:	**47 CFR FCC Part 15.407**
Received Date	:	**Mar. 07, 2022**
Tested Date	:	**Mar. 24 ~ Apr. 11, 2022**

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: **Approved by:**

Along Chen / Assistant Manager **Gary Chang / Manager**

Table of Contents

Release Record

Report No.	Version	Description	Issued Date
FR350301-12AN	Rev. 01	Initial issue	Apr. 27, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.150MHz 45.95 (Margin -20.05dB) - QP	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 11160.00MHz 53.55 (Margin -0.45dB) - AV	Pass
15.407(a)	Conducted Output Power	Max Power [dBm]: 5150~5250MHz: 16.22 5250~5350MHz: 16.62 5470~5725MHz: 17.67 5725~5850MHz: 17.88	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

This report is issued as a FCC Class II Permissive Change.
This report is issued as a supplementary report to original ICC report no. FR350301-07AN. The difference is concerned with following items:

- ✧ Changing Power Amplifer, Diplexer , RF Shielding Can
- ✧ Modified applicant name & address.
- ✧ Brand name changed.

Related test items had been performed and recorded in the following sections. Other test results were kept as same as mentioned on original report.

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	**IEEE Std. 802.11**	**Ch. Freq. (MHz)**	**Channel Number**	**Transmit Chains (N_{TX})**	**Data Rate / MCS**
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [11] 149-165 [5]	1	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [11] 149-165 [5]	1	MCS 0-7
Note 1: RF output power specifies that Maximum Conducted Output Power. Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation. Note 3: 802.11n supports HT20 only					

1.1.2 Antenna Details

Ant. No.	Brand /Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	MAG.LAYERS EDA-1513-25GR2-B2-CY	Dipole	SMA Jack Reverse	2	2	2	2	2
2	MAG.LAYERS PCA-4606-2G4C1-A13-CY	PCB Dipole	UFL	2.21	---	---	---	---
3	Larid NanoBlade-IP04	PCB Dipole	UFL	2	3.9	3.9	4	4
4	Larid MAF95310 Mini NanoBlade Flex	PCB Dipole	UFL	2.79	3.38	3.38	3.38	3.38
5	Larid NanoBlue-IP04	PCB Dipole	UFL	2	---	---	---	---
6	Ethertronics WLAN_1000146	PIFA	UFL	2.5	3.5	3.5	3.5	3.5
7	SAA MG7018-41-000-R	Dipole	UFL	1.87	0.85	0.6	0.94	0.92
8	SAA MG7324-41-000-R	Dipole	UFL	1.32	1.04	1.6	2.75	2.24

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc and 1.8Vdc

1.1.4 Accessories

N/A

1.1.5 Channel List

802.11 a / HT20	
Channel	**Frequency(MHz)**
36	5180
40	5200
44	5220
48	5240
52	5260
56	5280
60	5300
64	5320
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700
149	5745
153	5765
157	5785
161	5805
165	5825

1.1.6 Test Tool and Duty Cycle

Test Tool	putty, Version: 0.60.0.0		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	99.28%	0.03
	HT20	99.23%	0.03

1.1.7 Power Index of Test Tool

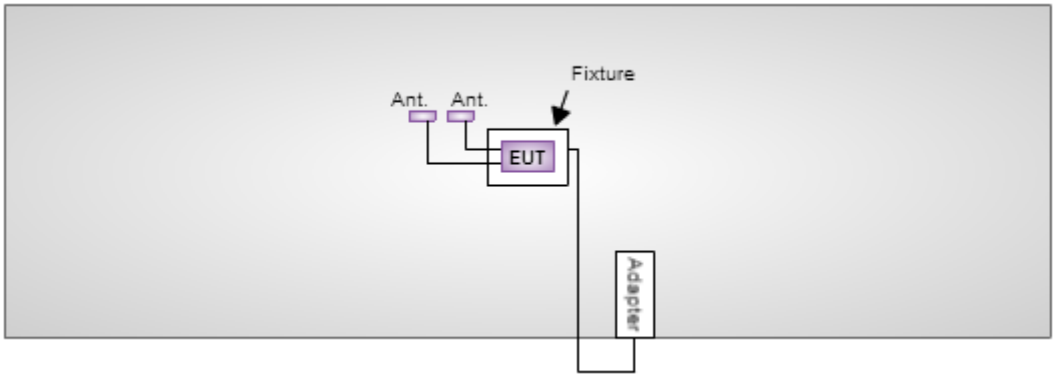
Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	14.5
11a	5200	14
11a	5240	15.5
11a	5260	16
11a	5300	15.5
11a	5320	15.5
11a	5500	15
11a	5580	17.5
11a	5700	15.5
11a	5745	15.5
11a	5785	18.5
11a	5825	18.5
HT20	5180	14
HT20	5200	14
HT20	5240	15.5
HT20	5260	16
HT20	5300	15.5
HT20	5320	15.5
HT20	5500	15
HT20	5580	17.5
HT20	5700	15.5
HT20	5745	15.5
HT20	5785	18.5
HT20	5825	18.5

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Notebook	DELL	Latitude E6430	DoC	---
2	Fixture	---	---	---	Provided by applicant.
3	Adapter	ASUS	AD2081320	---	---
4	USB Cable	ICC	mini to A	---	---
5	USB - RS232-G	Pro-BEST	MK-CBL-BF810 USB	---	---

1.3 Test Setup Chart

Test Setup Diagram



Note: The notebook & USB - RS232-G are disconnected from EUT and removed from test table when EUT is set to transmit continuously.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Mar. 31, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101295	Jan. 12, 2022	Jan. 11, 2023
LISN (Support Unit)	SCHWARZBECK	NSLK 8127	8127667	Jan .07, 2022	Jan .06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Mar. 24 ~ Mar. 31, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101499	Mar. 08, 2022	Mar. 07, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	May 06, 2021	May 05, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 20, 2021	Dec. 19, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980187	Jul. 26, 2021	Jul. 25, 2022
Preamplifier	Agilent	83017A	MY39501309	Sep. 06, 2021	Sep. 05, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 24, 2021	Sep. 23, 2022
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 24, 2021	Sep. 23, 2022
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 24, 2021	Sep. 23, 2022
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 24, 2021	Sep. 23, 2022
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 24, 2021	Sep. 23, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Apr. 11, 2022				
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	May 25, 2021	May 24, 2022
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 03, 2021	Dec. 02, 2022
Measurement Software	Sporton	SENSE-15407_NII	V5.10	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	**Uncertainty**
Conducted power	±0.808 dB
AC conducted emission	±2.92 dB
Unwanted Emission ≤ 1GHz	±3.96 dB
Unwanted Emission > 1GHz	±4.51 dB
Time	±0.1%
Temperature	±0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807C
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Test Configuration**
AC Power Line Conducted Emissions	11a	5580	6 Mbps	1
Unwanted Emissions ≤1GHz	11a	5580	6 Mbps	1, 2, 3
	HT20	5240	MCS 0	4
Conducted Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700	6 Mbps	1
	HT20	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700	MCS 0	
Unwanted Emissions >1GHz	11a	5260 / 5500 / 5580 / 5700	6 Mbps	1
		5240 / 5500 / 5580 / 5700		2
		5500 / 5580 / 5700		3
		5240 / 5260		4
	HT20	5240 / 5500 / 5580 / 5700	MCS 0	1
		5320 / 5500 / 5580 / 5700		2
		5500 / 5580 / 5700		3
Frequency band 5725-5850 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Test Configuration**
AC Power Line Conducted Emissions	11a	5785	6 Mbps	1
Unwanted Emissions ≤1GHz	11a	5825	6 Mbps	1, 2, 3
Conducted Output Power	11a	5745 / 5785 / 5825	6 Mbps	1
	HT20	5745 / 5785 / 5825	MCS 0	
Unwanted Emissions >1GHz	11a	5745 / 5785 / 5825	6 Mbps	1, 2, 3
	HT20	5745 / 5785 / 5825	MCS 0	

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** results were found as the worst case and were shown in this report.
2. Test configurations are listed as below:
   1) Configuration 1 : PCB Dipole antenna (Antenna No.3)
   2) Configuration 2 : PIFA antenna (Antenna No.6)
   3) Configuration 3 : Dipole antenna (Antenna No.8) / 5.47 ~ 5.725 GHz
   4) Configuration 4: Dipole antenna (Antenna No.1) / 5.15 ~ 5.35 GHz

3 Transmitter Test Results

3.1 Conducted Output Power

3.1.1 Limit of Conducted Output Power

Frequency band 5150-5250 MHz		
Operating Mode		**Limit**
☐	Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
☐	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☒	Client devices	Conducted Power: 250 mW

Frequency Band (MHz)		**Limit**
☒	5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
☒	5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
☒	5725 ~ 5850	Conducted Power: 1 W
Note: “B” is the 26dB emission bandwidth in MHz.		

3.1.2 Test Procedures

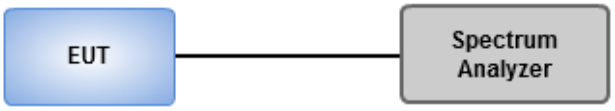
Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)

1. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
2. Trace average at least 100 traces in power averaging mode.
3. Compute power by integrating the spectrum across the 26 dB EBW.
4. Add 10 log(1/X, X:duty cycle) if duty cycle is <98%).

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	23°C / 64%	Tested By	Brad Wu

Refer to Appendix A.

3.2 Unwanted Emissions

3.2.1 Limit of Unwanted Emissions

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	

3.2.2 Test Procedures

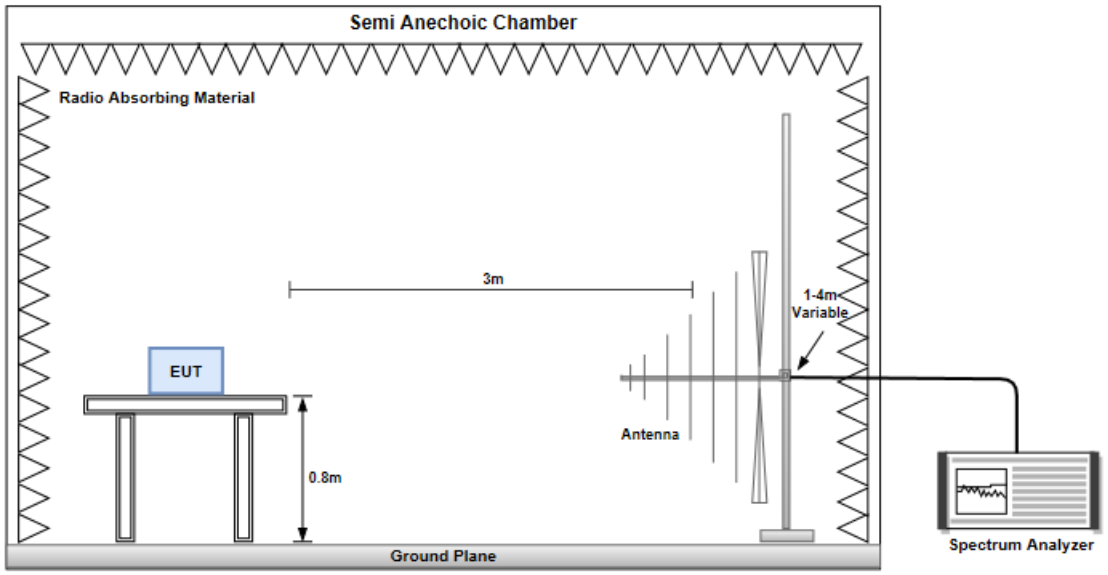
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

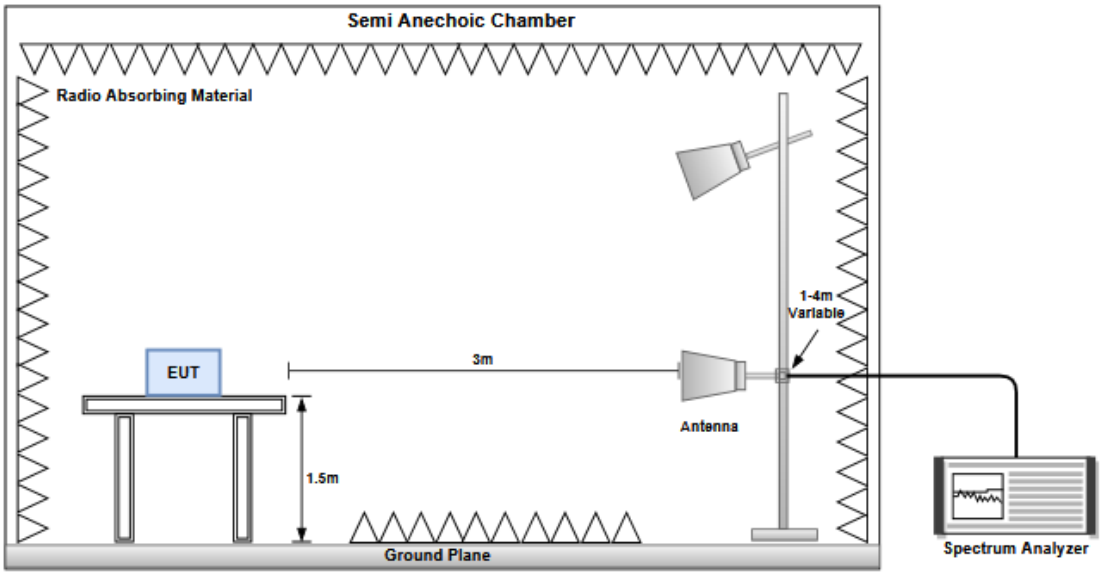
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.2.3 Test Setup

Unwanted Emissions below 1 GHz



Unwanted Emissions above 1 GHz



3.2.4 Test Results

Refer to Appendix B.

3.3 AC Power Line Conducted Emissions

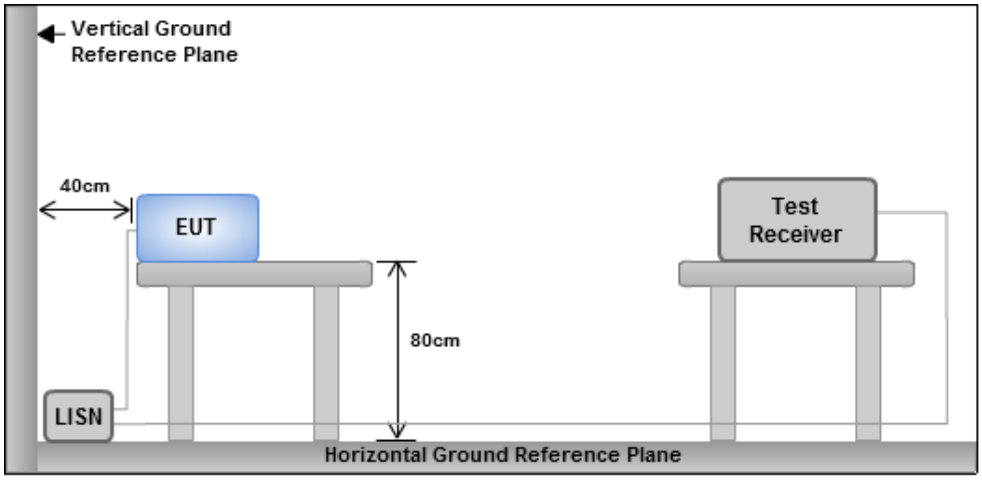
3.3.1 Limit of AC Power Line Conducted Emissions

Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.3.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

3.3.3 Test Setup



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

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.3.4 Test Results

Refer to Appendix C.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666
Fax: 886-3-318-0345
Email: ICC_Service@icertifi.com.tw

==END==

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.05	0.04027	19.95	0.09886
802.11n HT20_Nss1,(MCS0)_1TX	16.22	0.04188	20.12	0.10280
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.62	0.04592	20.52	0.11272
802.11n HT20_Nss1,(MCS0)_1TX	16.13	0.04102	20.03	0.10069
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	17.67	0.05848	21.67	0.14689
802.11n HT20_Nss1,(MCS0)_1TX	17.42	0.05521	21.42	0.13868
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	17.88	0.06138	21.88	0.15417
802.11n HT20_Nss1,(MCS0)_1TX	17.80	0.06026	21.80	0.15136

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.90	15.61	15.61	24.00	19.51	30.00
5200MHz	Pass	3.90	15.03	15.03	24.00	18.93	30.00
5240MHz	Pass	3.90	16.05	16.05	24.00	19.95	30.00
5260MHz	Pass	3.90	16.62	16.62	24.00	20.52	30.00
5300MHz	Pass	3.90	15.83	15.83	24.00	19.73	30.00
5320MHz	Pass	3.90	15.61	15.61	24.00	19.51	30.00
5500MHz	Pass	4.00	15.18	15.18	24.00	19.18	30.00
5580MHz	Pass	4.00	17.67	17.67	24.00	21.67	30.00
5700MHz	Pass	4.00	15.02	15.02	24.00	19.02	30.00
5745MHz	Pass	4.00	15.46	15.46	30.00	19.46	36.00
5785MHz	Pass	4.00	17.85	17.85	30.00	21.85	36.00
5825MHz	Pass	4.00	17.88	17.88	30.00	21.88	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.90	15.53	15.53	24.00	19.43	30.00
5200MHz	Pass	3.90	15.01	15.01	24.00	18.91	30.00
5240MHz	Pass	3.90	16.22	16.22	24.00	20.12	30.00
5260MHz	Pass	3.90	16.13	16.13	24.00	20.03	30.00
5300MHz	Pass	3.90	15.83	15.83	24.00	19.73	30.00
5320MHz	Pass	3.90	15.75	15.75	24.00	19.65	30.00
5500MHz	Pass	4.00	15.15	15.15	24.00	19.15	30.00
5580MHz	Pass	4.00	17.42	17.42	24.00	21.42	30.00
5700MHz	Pass	4.00	15.15	15.15	24.00	19.15	30.00
5745MHz	Pass	4.00	15.03	15.03	30.00	19.03	36.00
5785MHz	Pass	4.00	17.8	17.80	30.00	21.80	36.00
5825MHz	Pass	4.00	17.73	17.73	30.00	21.73	36.00

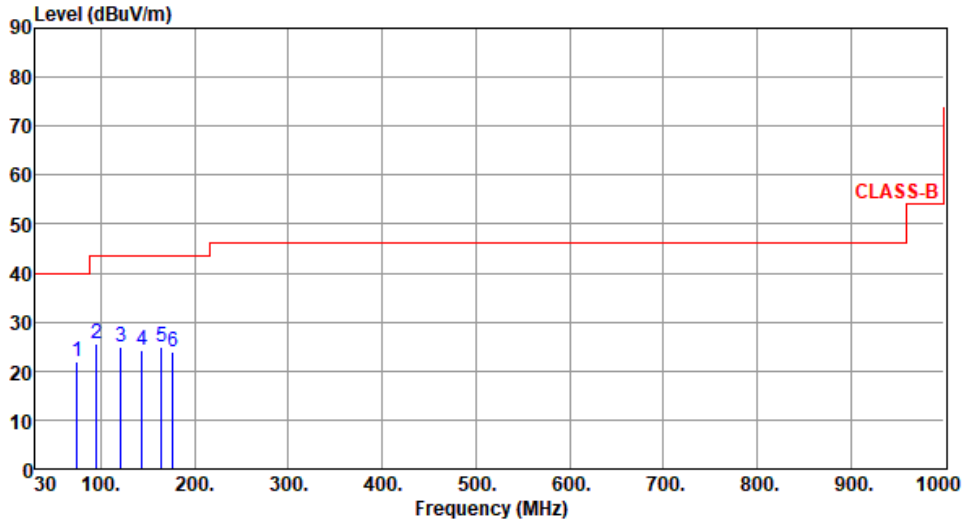
DG = Directional Gain ;**Port X** = Port X output power

Configuration 1: PCB Dipole antenna (Antenna No.3)

Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

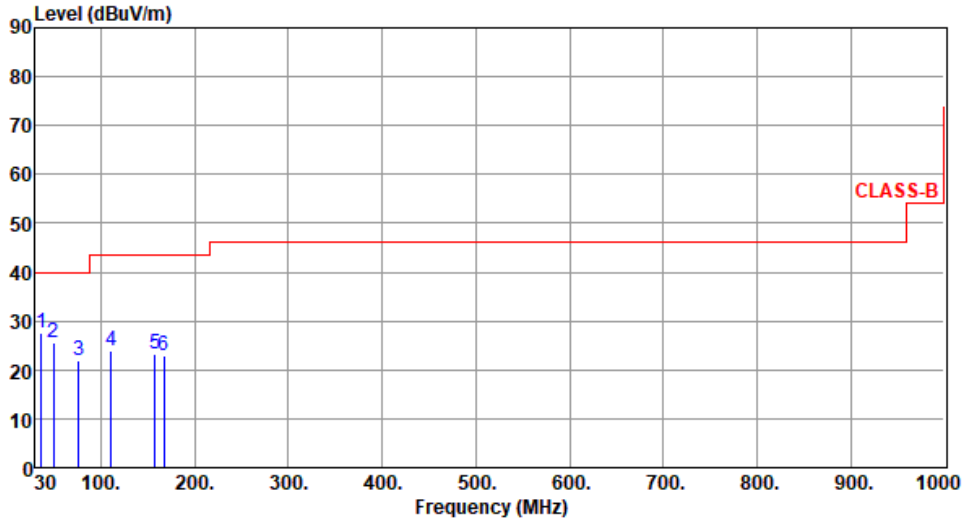


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	74.62	21.90	40.00	-18.10	33.85	-11.95	Peak	---	---
2	94.99	25.65	43.50	-17.85	40.11	-14.46	Peak	---	---
3	121.18	25.05	43.50	-18.45	35.75	-10.70	Peak	---	---
4	143.49	24.28	43.50	-19.22	33.08	-8.80	Peak	---	---
5	164.83	24.74	43.50	-18.76	33.40	-8.66	Peak	---	---
6	176.47	23.87	43.50	-19.63	33.46	-9.59	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

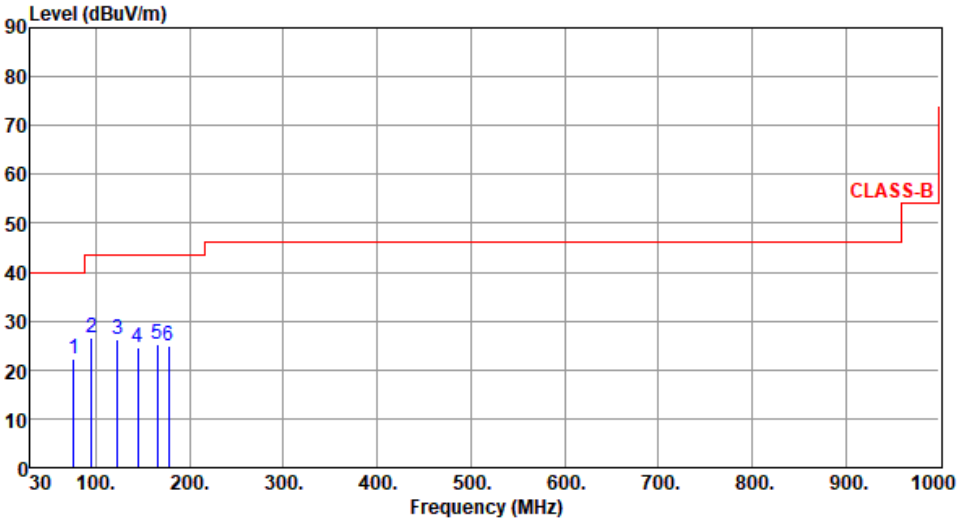


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	36.79	27.65	40.00	-12.35	37.33	-9.68	Peak	---	---
2	49.40	25.55	40.00	-14.45	34.44	-8.89	Peak	---	---
3	76.56	21.89	40.00	-18.11	34.29	-12.40	Peak	---	---
4	110.51	24.03	43.50	-19.47	35.88	-11.85	Peak	---	---
5	158.04	23.33	43.50	-20.17	31.83	-8.50	Peak	---	---
6	166.77	23.05	43.50	-20.45	31.82	-8.77	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

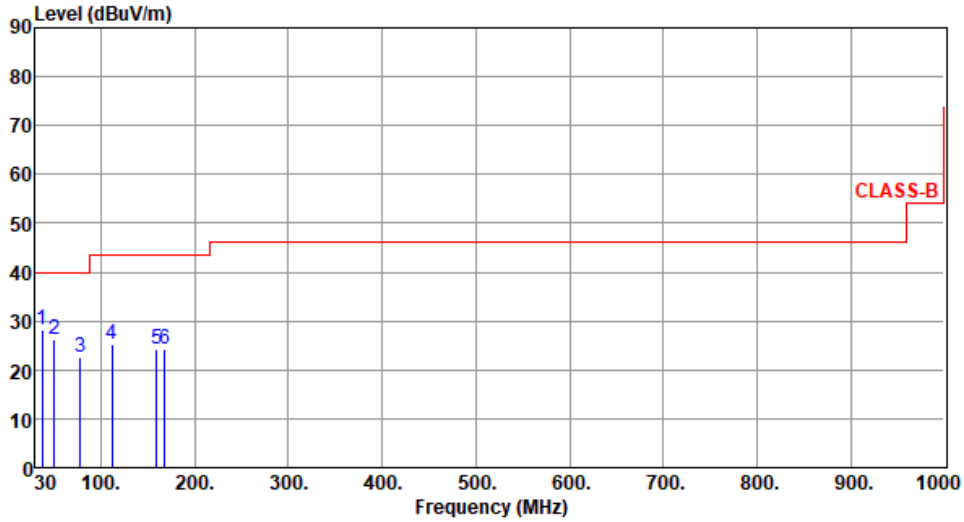


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	75.88	22.33	40.00	-17.67	34.50	-12.17	Peak	---	---
2	95.55	26.63	43.50	-16.87	41.03	-14.40	Peak	---	---
3	122.88	26.33	43.50	-17.17	36.87	-10.54	Peak	---	---
4	144.87	24.52	43.50	-18.98	33.36	-8.84	Peak	---	---
5	165.86	25.34	43.50	-18.16	34.10	-8.76	Peak	---	---
6	177.87	24.78	43.50	-18.72	34.58	-9.80	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69



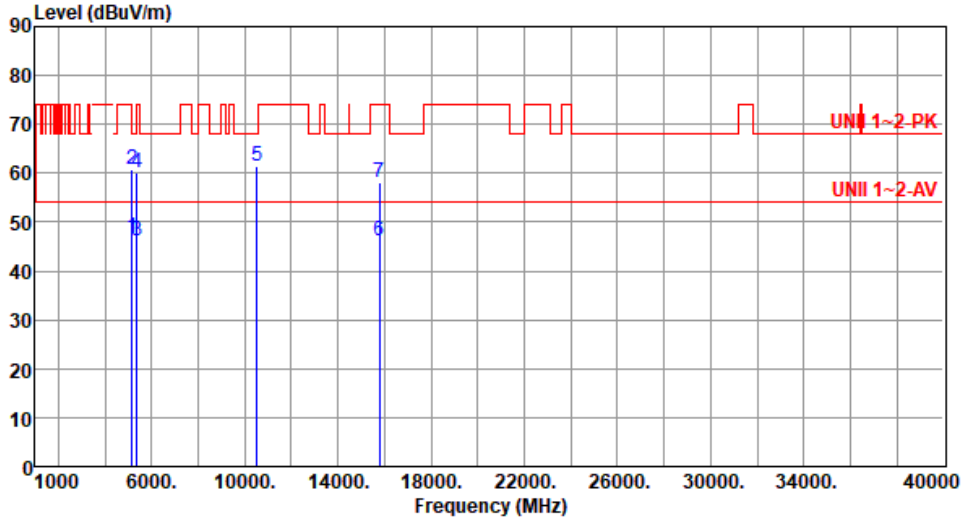
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	37.25	28.37	40.00	-11.63	37.95	-9.58	Peak	---	---
2	50.52	26.17	40.00	-13.83	35.10	-8.93	Peak	---	---
3	77.84	22.63	40.00	-17.37	35.46	-12.83	Peak	---	---
4	111.44	25.18	43.50	-18.32	36.88	-11.70	Peak	---	---
5	159.63	24.18	43.50	-19.32	32.57	-8.39	Peak	---	---
6	167.85	24.10	43.50	-19.40	32.95	-8.85	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	11a	**Test Freq. (MHz)**	5260
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):25 Humidity(%):68

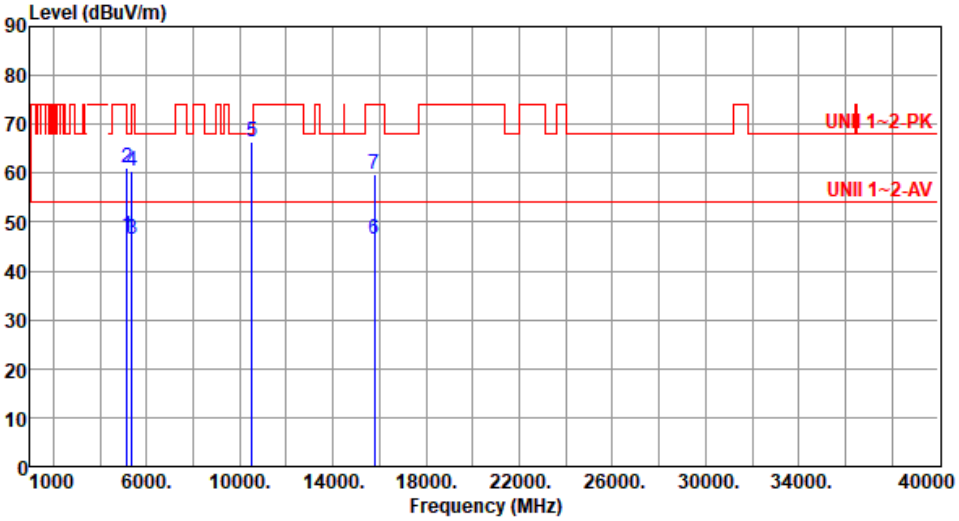


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.72	54.00	-7.28	40.41	6.31	Average	222	350
2	5150.00	60.75	74.00	-13.25	54.44	6.31	Peak	222	350
3	5350.00	46.05	54.00	-7.95	40.33	5.72	Average	222	350
4	5350.00	60.11	74.00	-13.89	54.39	5.72	Peak	222	350
5	10520.00	61.55	68.20	-6.65	46.88	14.67	Peak	105	112
6	15780.00	46.06	54.00	-7.94	30.20	15.86	Average	100	100
7	15780.00	58.11	74.00	-15.89	42.25	15.86	Peak	100	100

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5260
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):25 Humidity(%):68

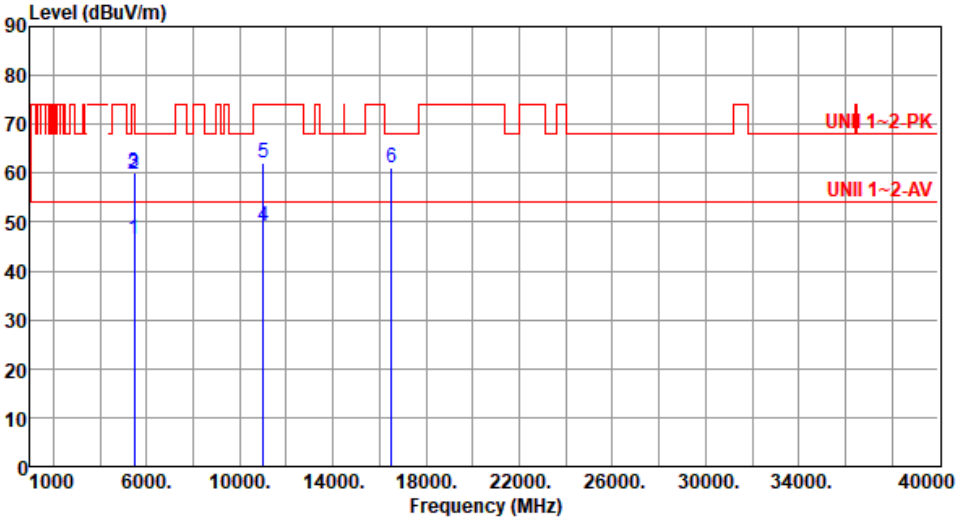


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.18	54.00	-6.82	40.87	6.31	Average	113	17
2	5150.00	61.19	74.00	-12.81	54.88	6.31	Peak	113	17
3	5350.00	46.48	54.00	-7.52	40.76	5.72	Average	113	17
4	5350.00	60.50	74.00	-13.50	54.78	5.72	Peak	113	17
5	10520.00	66.56	68.20	-1.64	51.89	14.67	Peak	304	177
6	15780.00	46.52	54.00	-7.48	30.66	15.86	Average	100	183
7	15780.00	59.71	74.00	-14.29	43.85	15.86	Peak	100	183

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5500
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):26 Humidity(%):62

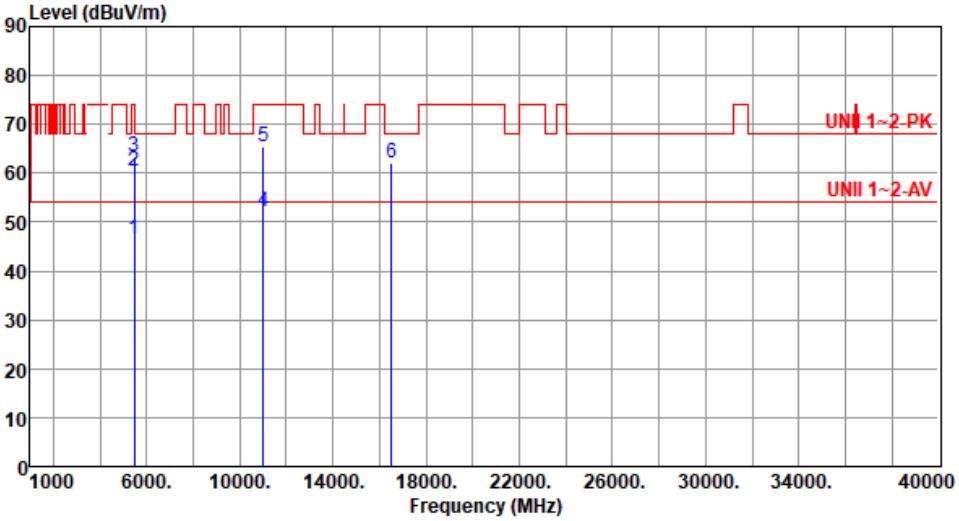


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.44	54.00	-7.56	40.14	6.30	Average	226	337
2	5460.00	59.94	74.00	-14.06	53.64	6.30	Peak	226	337
3	5470.00	60.19	68.20	-8.01	53.87	6.32	Peak	226	337
4	11000.00	49.14	54.00	-4.86	33.49	15.65	Average	270	316
5	11000.00	62.21	74.00	-11.79	46.56	15.65	Peak	270	316
6	16500.00	60.95	68.20	-7.25	43.49	17.46	Peak	100	71

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5500
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):26 Humidity(%):62

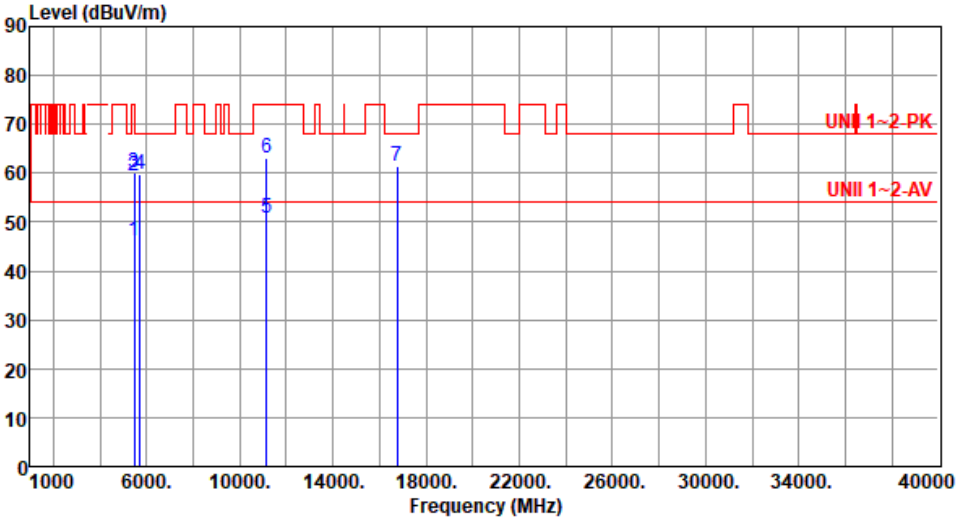


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.64	54.00	-7.36	40.34	6.30	Average	215	9
2	5460.00	60.31	74.00	-13.69	54.01	6.30	Peak	215	9
3	5470.00	63.34	68.20	-4.86	57.02	6.32	Peak	215	9
4	11000.00	52.16	54.00	-1.84	36.51	15.65	Average	252	165
5	11000.00	65.43	74.00	-8.57	49.78	15.65	Peak	252	165
6	16500.00	62.04	68.20	-6.16	44.58	17.46	Peak	100	177

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

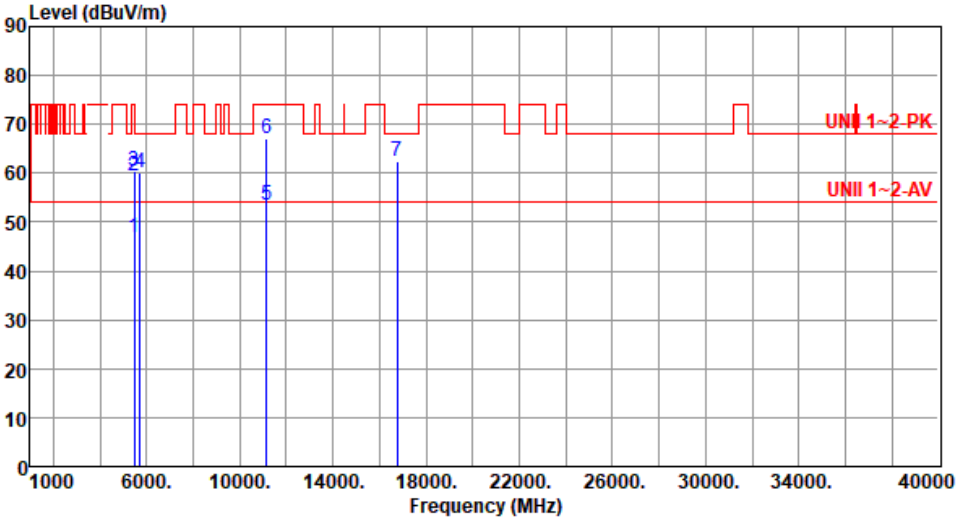


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.26	54.00	-7.74	39.96	6.30	Average	215	339
2	5460.00	59.31	74.00	-14.69	53.01	6.30	Peak	215	339
3	5470.00	60.11	68.20	-8.09	53.79	6.32	Peak	215	339
4	5725.00	59.90	68.20	-8.30	53.31	6.59	Peak	215	339
5	11160.00	50.74	54.00	-3.26	35.59	15.15	Average	273	321
6	11160.00	63.12	74.00	-10.88	47.97	15.15	Peak	273	321
7	16740.00	61.37	68.20	-6.83	43.67	17.70	Peak	100	79

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

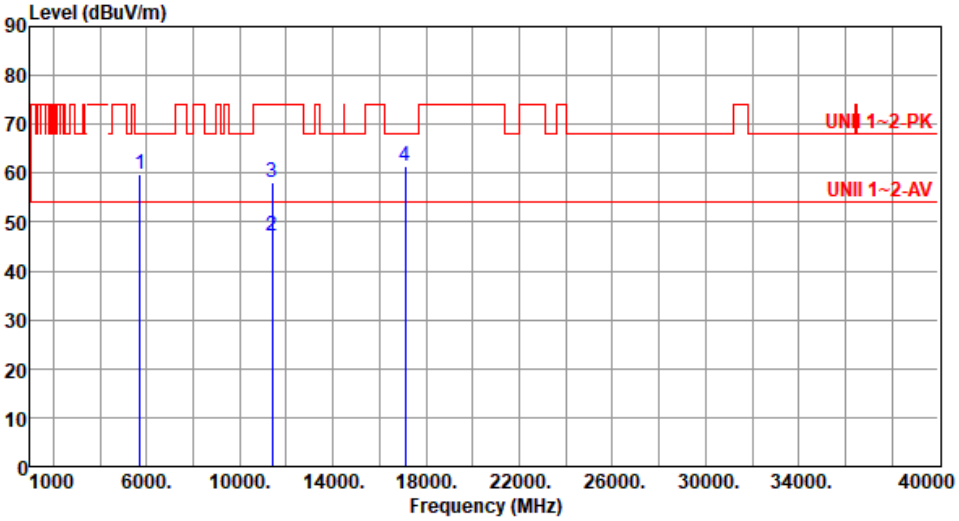


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.87	54.00	-7.13	40.57	6.30	Average	222	15
2	5460.00	59.55	74.00	-14.45	53.25	6.30	Peak	222	15
3	5470.00	60.43	68.20	-7.77	54.11	6.32	Peak	222	15
4	5725.00	60.27	68.20	-7.93	53.68	6.59	Peak	222	15
5	11160.00	53.45	54.00	-0.55	38.30	15.15	Average	222	161
6	11160.00	67.03	74.00	-6.97	51.88	15.15	Peak	222	161
7	16740.00	62.58	68.20	-5.62	44.88	17.70	Peak	105	175

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5700
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):26 Humidity(%):62

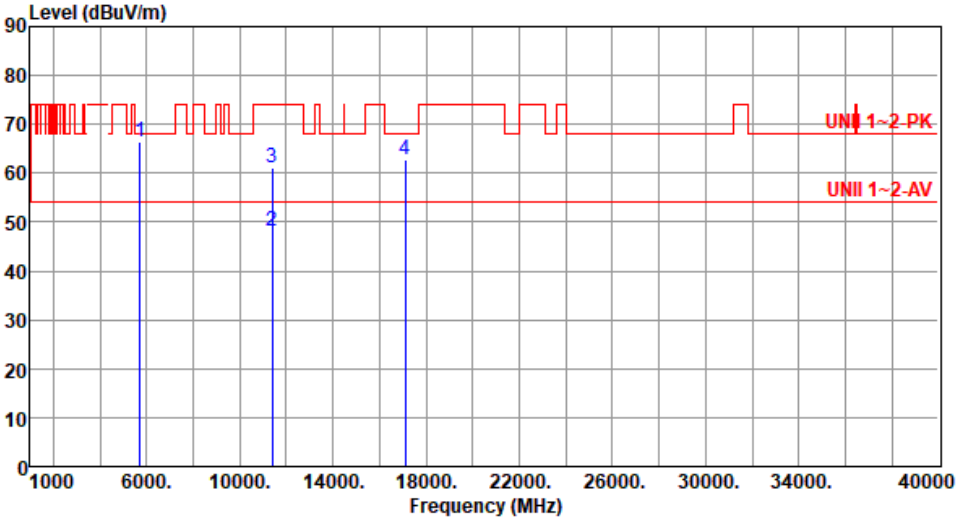


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	59.74	68.20	-8.46	53.15	6.59	Peak	222	345
2	11400.00	47.30	54.00	-6.70	32.15	15.15	Average	262	315
3	11400.00	58.04	74.00	-15.96	42.89	15.15	Peak	262	315
4	17100.00	61.40	68.20	-6.80	43.25	18.15	Peak	100	80

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5700
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):26 Humidity(%):62

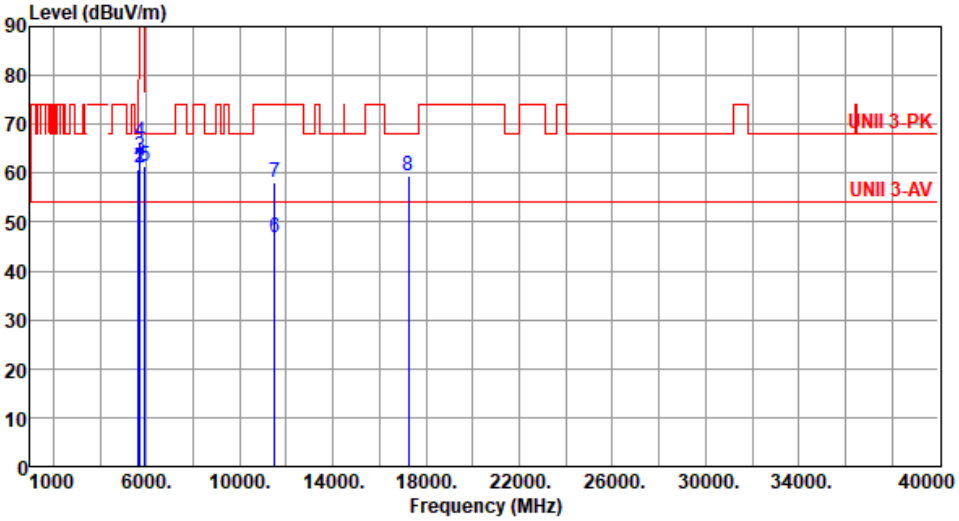


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	66.46	68.20	-1.74	59.87	6.59	Peak	223	15
2	11400.00	48.01	54.00	-5.99	32.86	15.15	Average	223	175
3	11400.00	61.17	74.00	-12.83	46.02	15.15	Peak	223	175
4	17100.00	62.71	68.20	-5.49	44.56	18.15	Peak	223	178

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5745
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

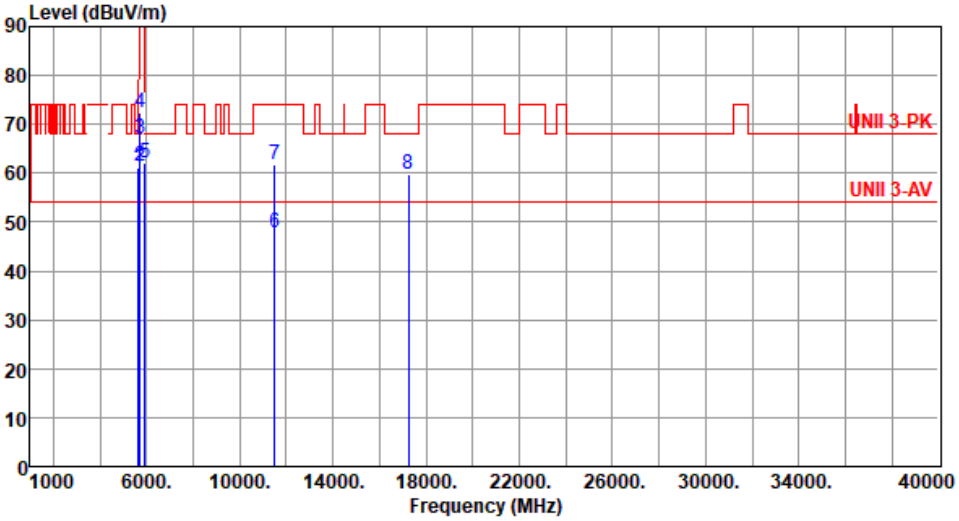


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.76	68.20	-7.44	54.44	6.32	Peak	230	340
2	5700.00	61.03	105.20	-44.17	54.50	6.53	Peak	230	340
3	5720.00	63.46	110.80	-47.34	56.88	6.58	Peak	230	340
4	5725.00	66.47	122.20	-55.73	59.88	6.59	Peak	230	340
5	5925.00	61.33	68.20	-6.87	54.30	7.03	Peak	230	340
6	11490.00	46.69	54.00	-7.31	31.31	15.38	Average	108	77
7	11490.00	58.03	74.00	-15.97	42.65	15.38	Peak	108	77
8	17235.00	59.47	68.20	-8.73	41.21	18.26	Peak	100	75

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5745
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

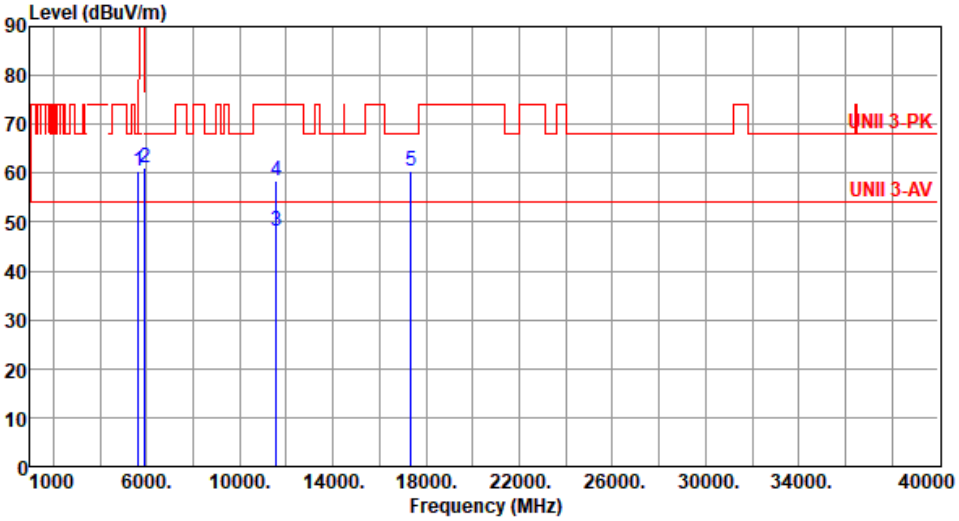


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.98	68.20	-7.22	54.66	6.32	Peak	211	2
2	5700.00	61.28	105.20	-43.92	54.75	6.53	Peak	211	2
3	5720.00	67.21	110.80	-43.59	60.63	6.58	Peak	211	2
4	5725.00	72.44	122.20	-49.76	65.85	6.59	Peak	211	2
5	5925.00	62.02	68.20	-6.18	54.99	7.03	Peak	211	2
6	11490.00	47.92	54.00	-6.08	32.54	15.38	Average	210	176
7	11490.00	61.92	74.00	-12.08	46.54	15.38	Peak	210	176
8	17235.00	59.81	68.20	-8.39	41.55	18.26	Peak	100	180

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5785
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

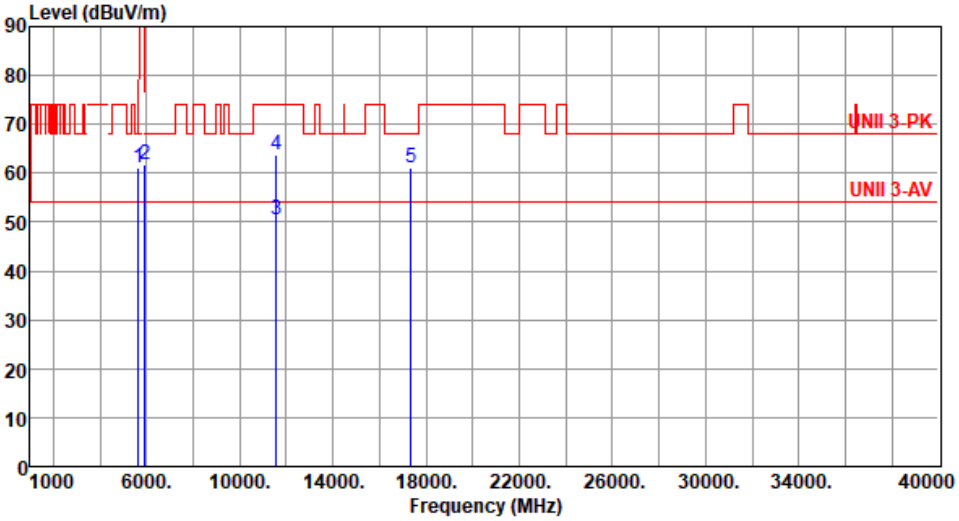


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.43	68.20	-7.77	54.11	6.32	Peak	233	345
2	5925.00	61.09	68.20	-7.11	54.06	7.03	Peak	233	345
3	11570.00	48.05	54.00	-5.95	32.67	15.38	Average	101	74
4	11570.00	58.34	74.00	-15.66	42.96	15.38	Peak	101	74
5	17355.00	60.44	68.20	-7.76	41.46	18.98	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5785
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

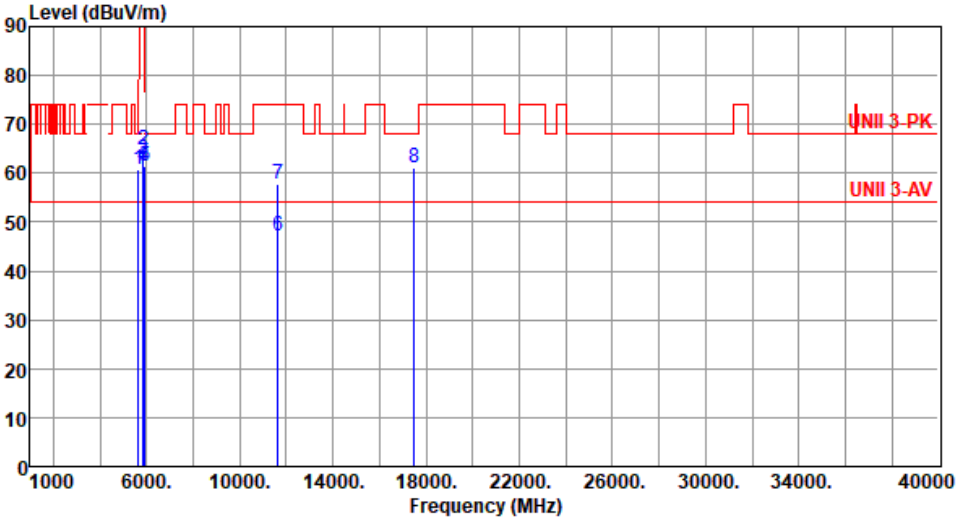


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.98	68.20	-7.22	54.66	6.32	Peak	212	9
2	5925.00	61.65	68.20	-6.55	54.62	7.03	Peak	212	9
3	11570.00	50.50	54.00	-3.50	35.12	15.38	Average	219	172
4	11570.00	63.83	74.00	-10.17	48.45	15.38	Peak	219	172
5	17355.00	60.94	68.20	-7.26	41.96	18.98	Peak	100	180

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):25 Humidity(%):68

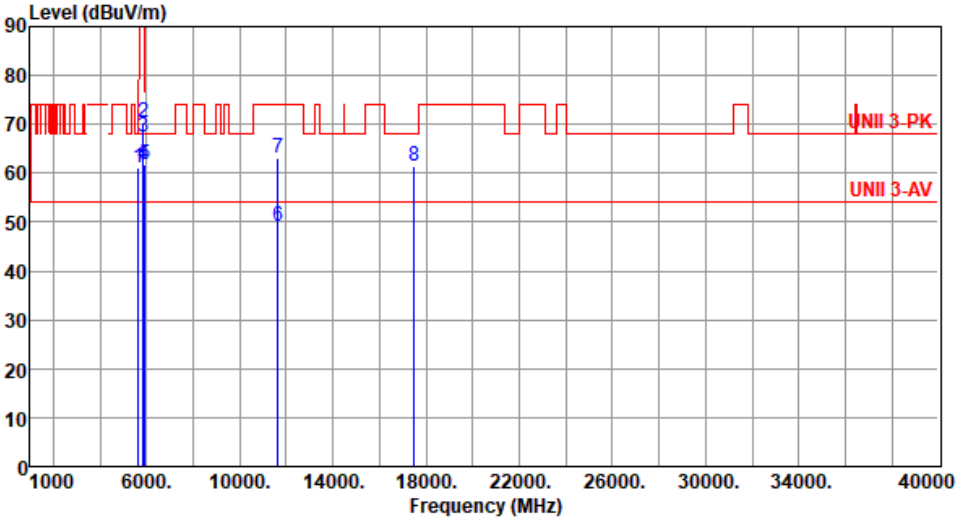


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.87	68.20	-7.33	54.55	6.32	Peak	228	342
2	5850.00	64.67	122.20	-57.53	57.90	6.77	Peak	228	342
3	5855.00	62.68	110.80	-48.12	55.88	6.80	Peak	228	342
4	5875.00	61.28	105.20	-43.92	54.40	6.88	Peak	228	342
5	5925.00	61.37	68.20	-6.83	54.34	7.03	Peak	228	342
6	11650.00	47.04	54.00	-6.96	31.87	15.17	Average	105	75
7	11650.00	57.92	74.00	-16.08	42.75	15.17	Peak	105	75
8	17475.00	61.15	68.20	-7.05	41.34	19.81	Peak	100	80

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):25 Humidity(%):68

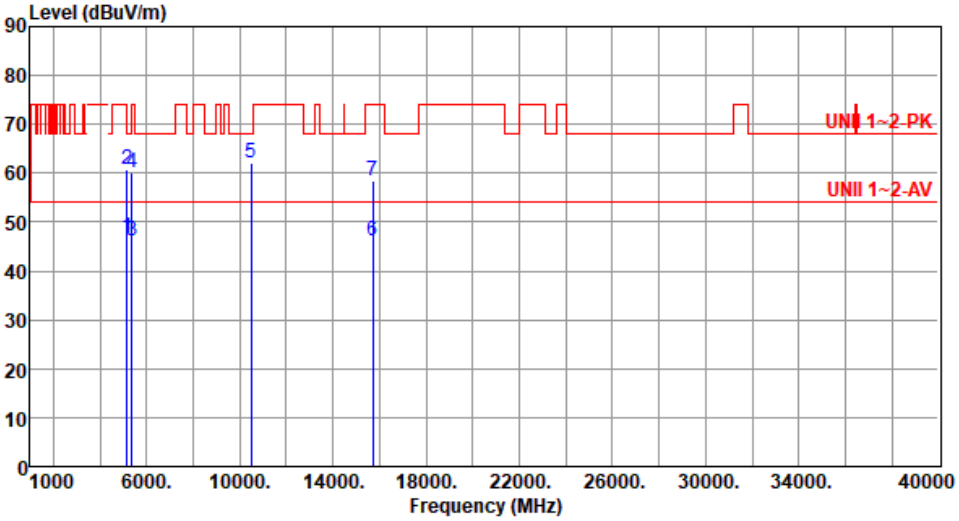


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.98	68.20	-7.22	54.66	6.32	Peak	215	5
2	5850.00	70.43	122.20	-51.77	63.66	6.77	Peak	215	5
3	5855.00	67.49	110.80	-43.31	60.69	6.80	Peak	215	5
4	5875.00	61.87	105.20	-43.33	54.99	6.88	Peak	215	5
5	5925.00	61.78	68.20	-6.42	54.75	7.03	Peak	215	5
6	11650.00	49.07	54.00	-4.93	33.90	15.17	Average	212	169
7	11650.00	63.02	74.00	-10.98	47.85	15.17	Peak	212	169
8	17475.00	61.48	68.20	-6.72	41.67	19.81	Peak	100	177

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5240
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):25 Humidity(%):68

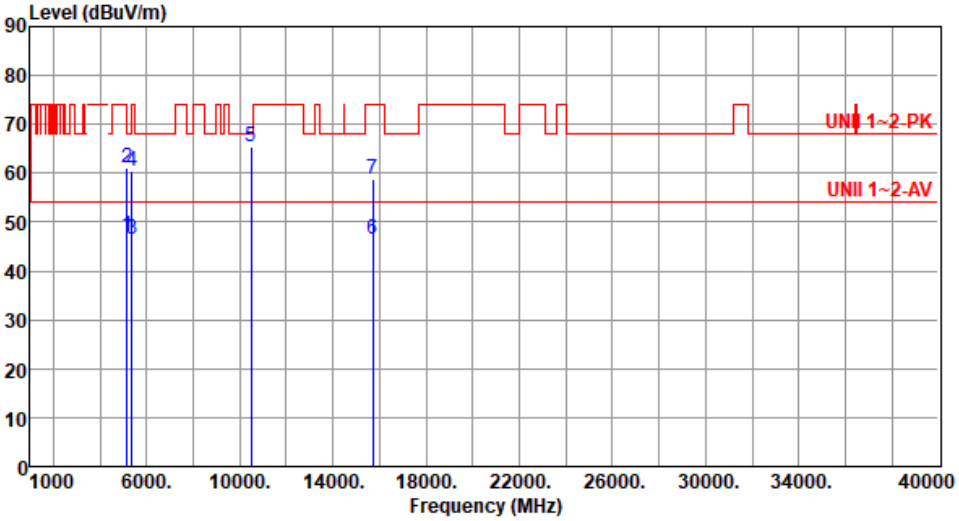


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.75	54.00	-7.25	40.44	6.31	Average	224	344
2	5150.00	60.74	74.00	-13.26	54.43	6.31	Peak	224	344
3	5350.00	46.15	54.00	-7.85	40.43	5.72	Average	224	344
4	5350.00	60.05	74.00	-13.95	54.33	5.72	Peak	224	344
5	10480.00	62.17	68.20	-6.03	47.54	14.63	Peak	103	95
6	15720.00	46.28	54.00	-7.72	30.33	15.95	Average	100	87
7	15720.00	58.43	74.00	-15.57	42.48	15.95	Peak	100	87

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5240
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):25 Humidity(%):68

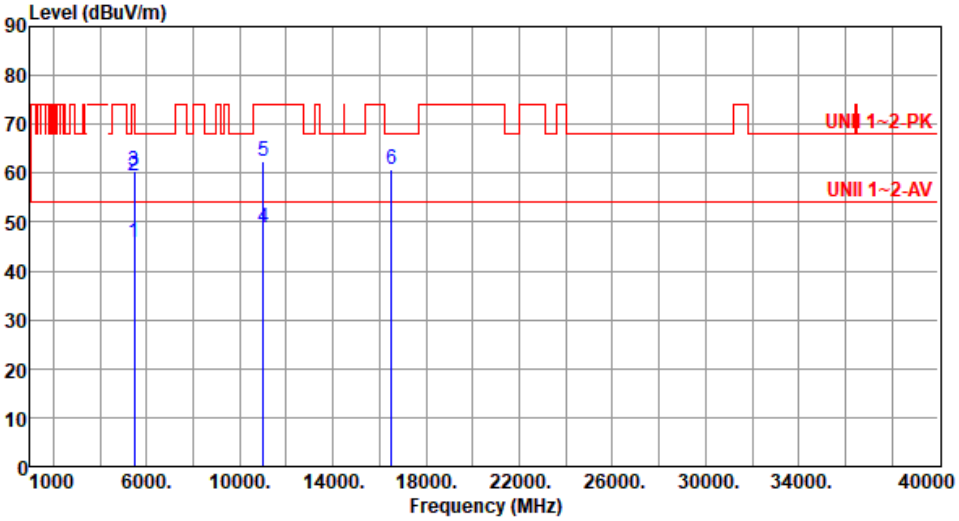


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.06	54.00	-6.94	40.75	6.31	Average	114	20
2	5150.00	61.16	74.00	-12.84	54.85	6.31	Peak	114	20
3	5350.00	46.55	54.00	-7.45	40.83	5.72	Average	114	20
4	5350.00	60.45	74.00	-13.55	54.73	5.72	Peak	114	20
5	10480.00	65.28	68.20	-2.92	50.65	14.63	Peak	232	161
6	15720.00	46.61	54.00	-7.39	30.66	15.95	Average	100	155
7	15720.00	58.70	74.00	-15.30	42.75	15.95	Peak	100	155

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5500
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):26 Humidity(%):62

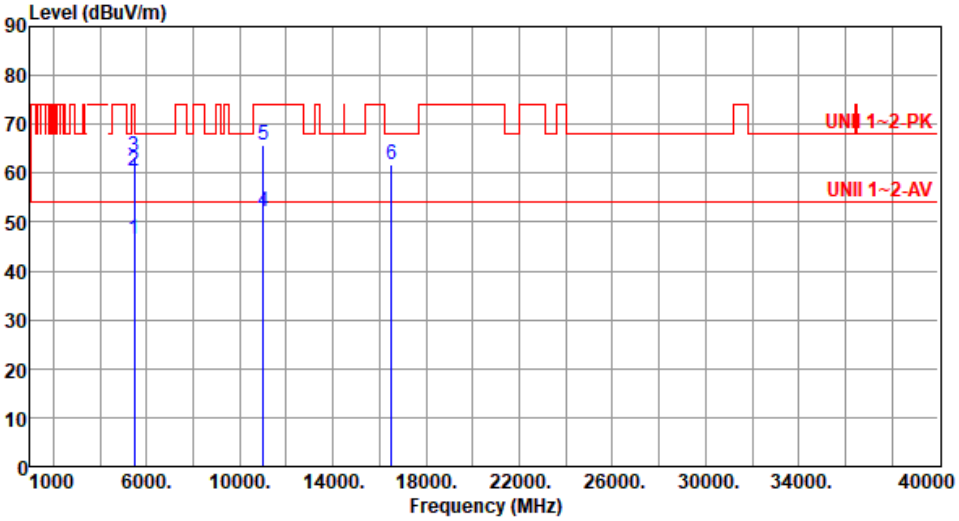


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.94	54.00	-8.06	39.64	6.30	Average	215	333
2	5460.00	59.54	74.00	-14.46	53.24	6.30	Peak	215	333
3	5470.00	60.47	68.20	-7.73	54.15	6.32	Peak	215	333
4	11000.00	48.98	54.00	-5.02	33.33	15.65	Average	265	314
5	11000.00	62.43	74.00	-11.57	46.78	15.65	Peak	265	314
6	16500.00	60.78	68.20	-7.42	43.32	17.46	Peak	100	77

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5500
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):26 Humidity(%):62

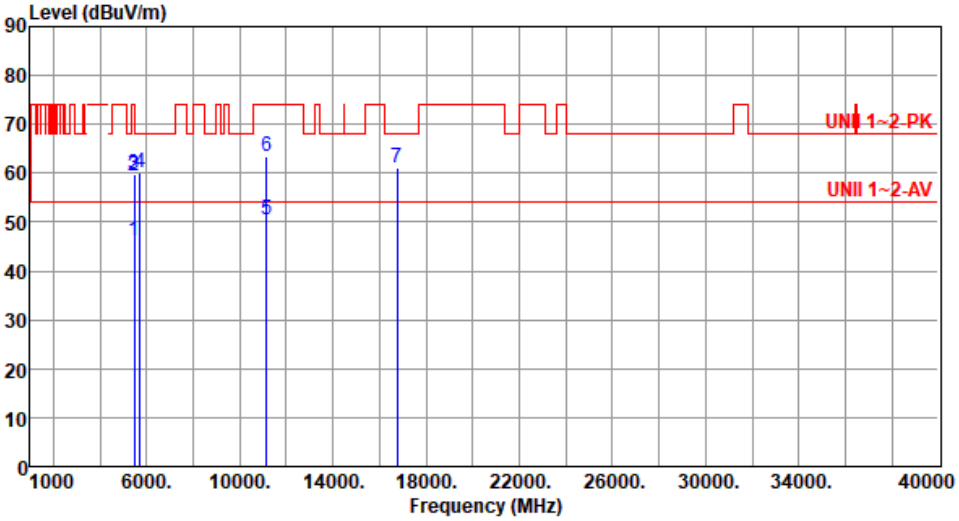


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.54	54.00	-7.46	40.24	6.30	Average	212	7
2	5460.00	60.54	74.00	-13.46	54.24	6.30	Peak	212	7
3	5470.00	63.57	68.20	-4.63	57.25	6.32	Peak	212	7
4	11000.00	51.99	54.00	-2.01	36.34	15.65	Average	249	168
5	11000.00	65.63	74.00	-8.37	49.98	15.65	Peak	249	168
6	16500.00	61.87	68.20	-6.33	44.41	17.46	Peak	100	175

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5580
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):26 Humidity(%):62

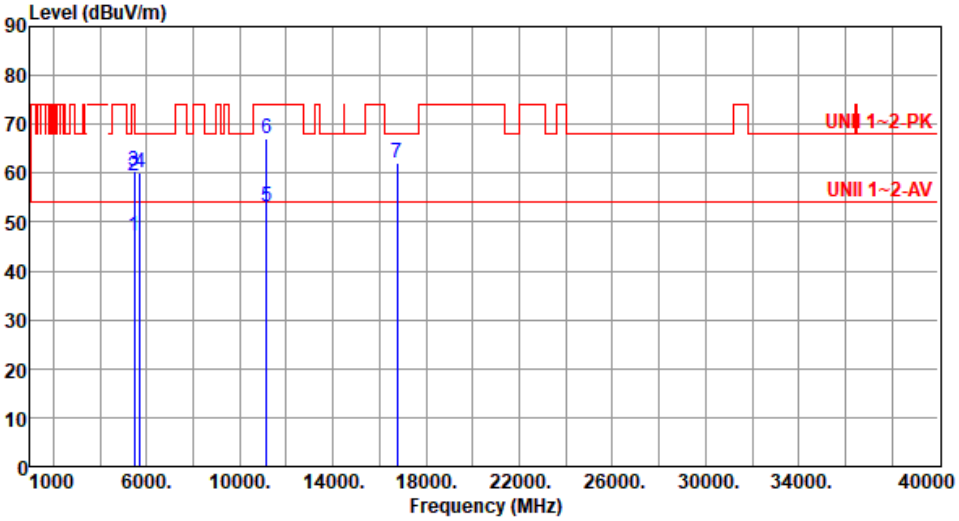


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.17	54.00	-7.83	39.87	6.30	Average	225	341
2	5460.00	59.31	74.00	-14.69	53.01	6.30	Peak	225	341
3	5470.00	59.91	68.20	-8.29	53.59	6.32	Peak	225	341
4	5725.00	60.01	68.20	-8.19	53.42	6.59	Peak	225	341
5	11160.00	50.57	54.00	-3.43	35.42	15.15	Average	275	311
6	11160.00	63.36	74.00	-10.64	48.21	15.15	Peak	275	311
7	16740.00	61.12	68.20	-7.08	43.42	17.70	Peak	100	75

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5580
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):26 Humidity(%):62

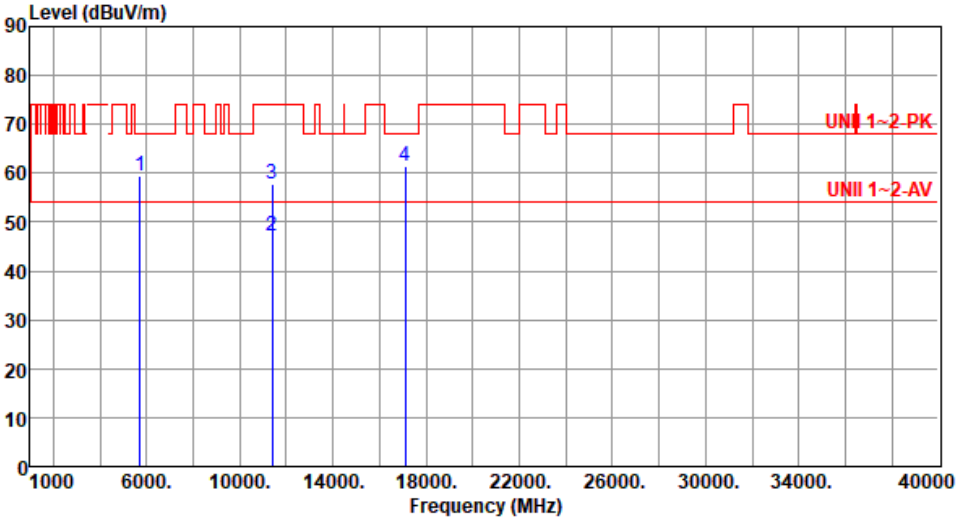


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	47.07	54.00	-6.93	40.77	6.30	Average	220	11
2	5460.00	59.44	74.00	-14.56	53.14	6.30	Peak	220	11
3	5470.00	60.54	68.20	-7.66	54.22	6.32	Peak	220	11
4	5725.00	60.15	68.20	-8.05	53.56	6.59	Peak	220	11
5	11160.00	53.27	54.00	-0.73	38.12	15.15	Average	230	165
6	11160.00	67.21	74.00	-6.79	52.06	15.15	Peak	230	165
7	16740.00	62.26	68.20	-5.94	44.56	17.70	Peak	100	178

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5700
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):25 Humidity(%):68

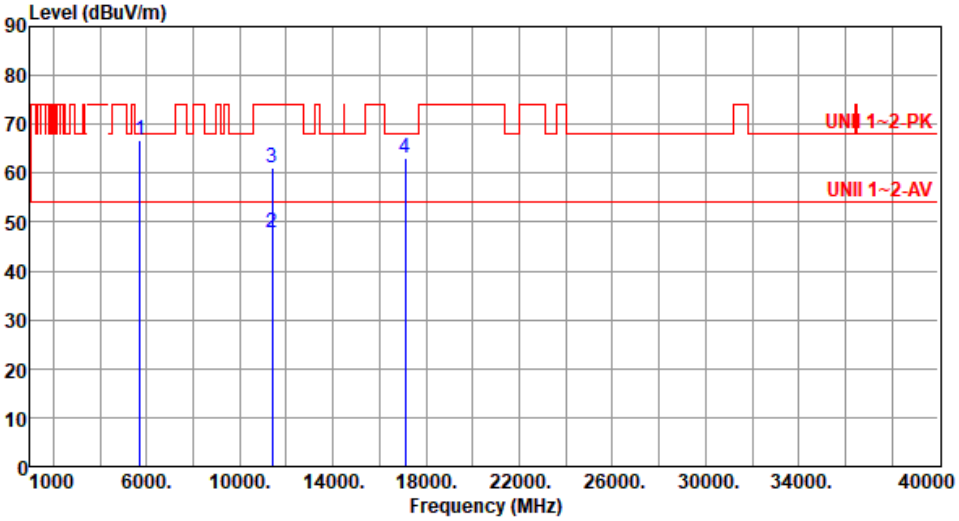


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	59.49	68.20	-8.71	52.90	6.59	Peak	218	346
2	11400.00	47.02	54.00	-6.98	31.87	15.15	Average	260	318
3	11400.00	57.81	74.00	-16.19	42.66	15.15	Peak	262	318
4	17100.00	61.59	68.20	-6.61	43.44	18.15	Peak	100	78

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5700
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):25 Humidity(%):68

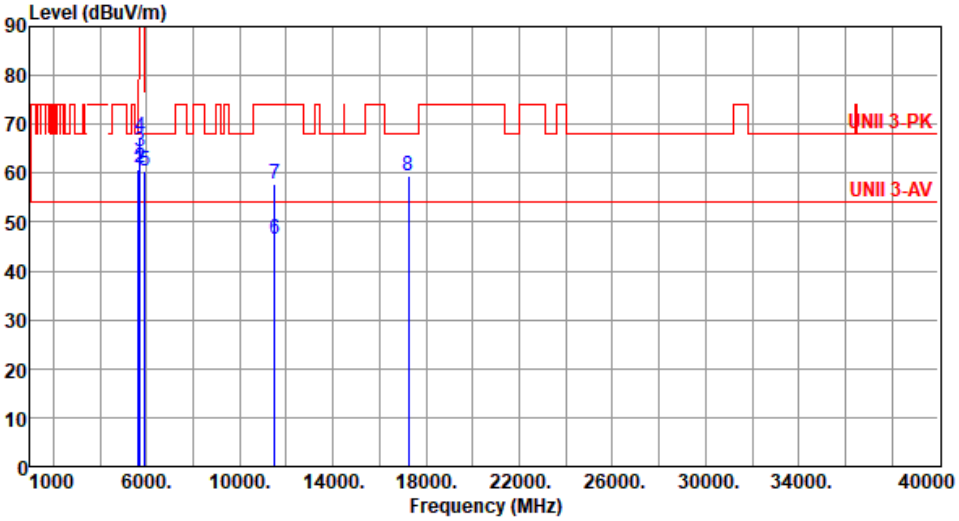


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	66.77	68.20	-1.43	60.18	6.59	Peak	225	10
2	11400.00	47.72	54.00	-6.28	32.57	15.15	Average	225	172
3	11400.00	61.03	74.00	-12.97	45.88	15.15	Peak	225	172
4	17100.00	63.02	68.20	-5.18	44.87	18.15	Peak	100	180

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5745
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

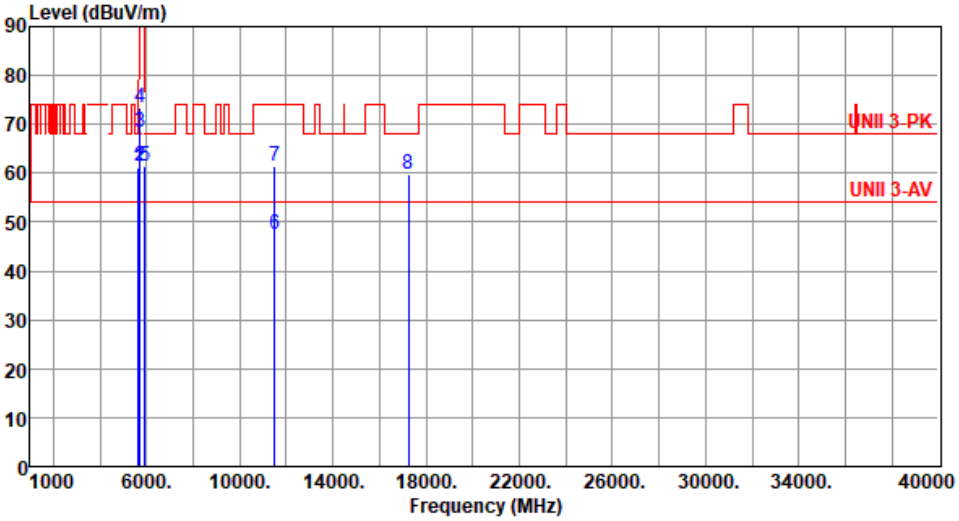


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.81	68.20	-7.39	54.49	6.32	Peak	233	342
2	5700.00	61.19	105.20	-44.01	54.66	6.53	Peak	233	342
3	5720.00	64.57	110.80	-46.23	57.99	6.58	Peak	233	342
4	5725.00	67.36	122.20	-54.84	60.77	6.59	Peak	233	342
5	5925.00	60.41	68.20	-7.79	53.38	7.03	Peak	233	342
6	11490.00	46.65	54.00	-7.35	31.27	15.38	Average	105	76
7	11490.00	57.90	74.00	-16.10	42.52	15.38	Peak	105	76
8	17235.00	59.43	68.20	-8.77	41.17	18.26	Peak	100	73

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5745
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

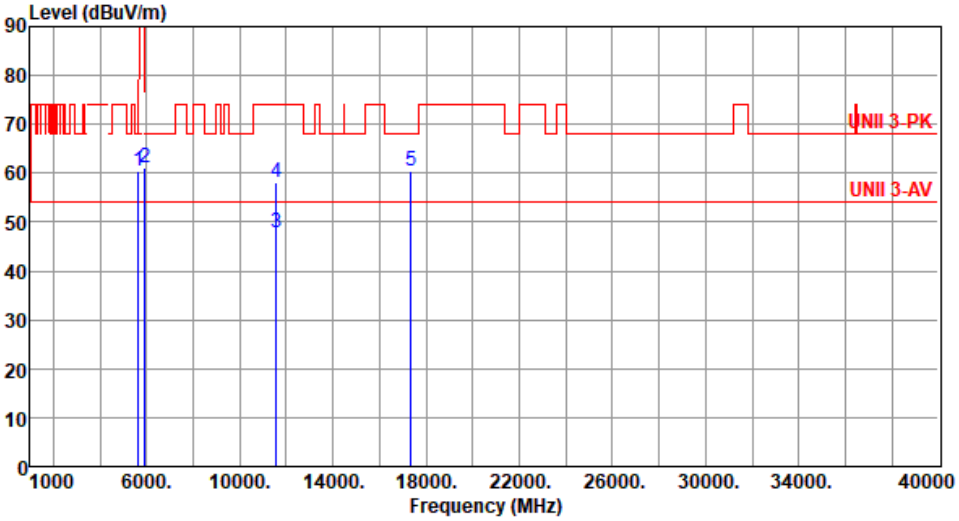


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	61.09	68.20	-7.11	54.77	6.32	Peak	216	3
2	5700.00	61.41	105.20	-43.79	54.88	6.53	Peak	216	3
3	5720.00	68.46	110.80	-42.34	61.88	6.58	Peak	216	3
4	5725.00	73.36	122.20	-48.84	66.77	6.59	Peak	216	3
5	5925.00	61.36	68.20	-6.84	54.33	7.03	Peak	216	3
6	11490.00	47.57	54.00	-6.43	32.19	15.38	Average	215	177
7	11490.00	61.60	74.00	-12.40	46.22	15.38	Peak	215	177
8	17235.00	59.69	68.20	-8.51	41.43	18.26	Peak	100	173

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5785
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

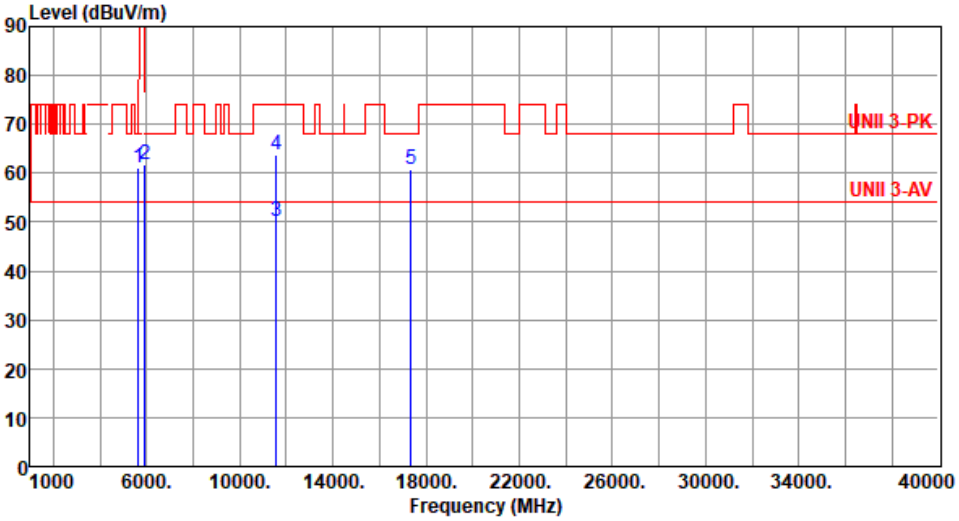


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.54	68.20	-7.66	54.22	6.32	Peak	236	344
2	5925.00	61.21	68.20	-6.99	54.18	7.03	Peak	236	344
3	11570.00	47.91	54.00	-6.09	32.53	15.38	Average	100	73
4	11570.00	58.21	74.00	-15.79	42.83	15.38	Peak	100	73
5	17355.00	60.38	68.20	-7.82	41.40	18.98	Peak	100	85

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5785
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

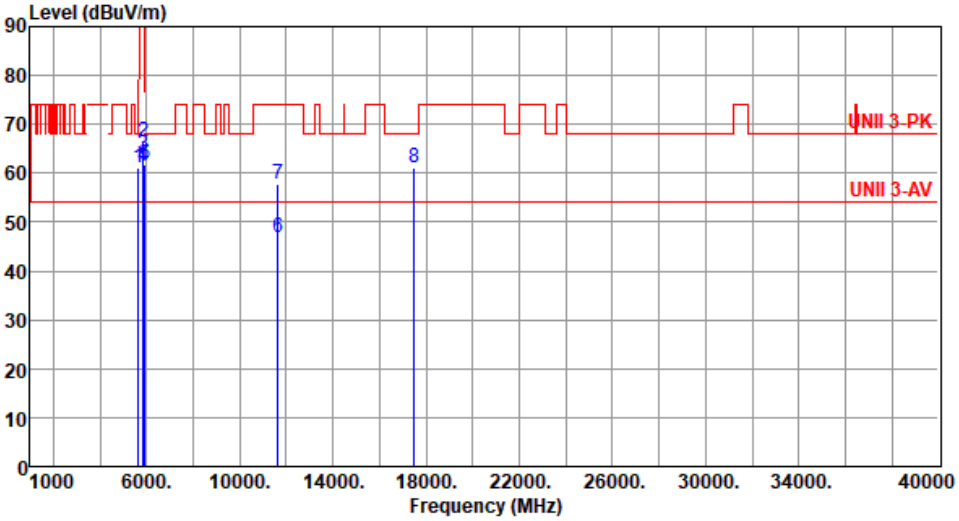


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	61.09	68.20	-7.11	54.77	6.32	Peak	218	10
2	5925.00	61.80	68.20	-6.40	54.77	7.03	Peak	218	10
3	11570.00	50.28	54.00	-3.72	34.90	15.38	Average	220	175
4	11570.00	63.72	74.00	-10.28	48.34	15.38	Peak	220	175
5	17355.00	60.81	68.20	-7.39	41.83	18.98	Peak	100	173

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5825
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

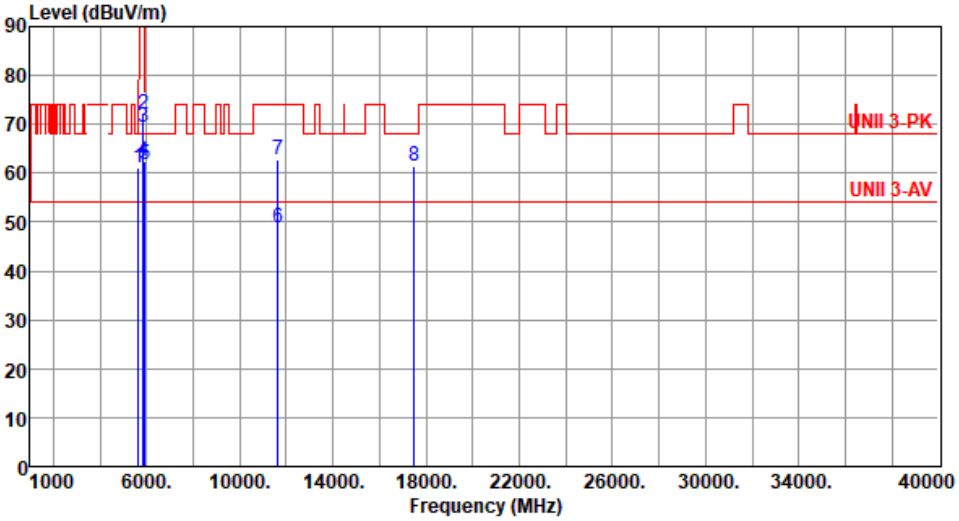


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.98	68.20	-7.22	54.66	6.32	Peak	233	346
2	5850.00	66.43	122.20	-55.77	59.66	6.77	Peak	233	346
3	5855.00	63.75	110.80	-47.05	56.95	6.80	Peak	233	346
4	5875.00	61.43	105.20	-43.77	54.55	6.88	Peak	233	346
5	5925.00	61.61	68.20	-6.59	54.58	7.03	Peak	233	346
6	11650.00	46.89	54.00	-7.11	31.72	15.17	Average	103	72
7	11650.00	57.83	74.00	-16.17	42.66	15.17	Peak	103	72
8	17475.00	61.07	68.20	-7.13	41.26	19.81	Peak	100	73

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5825
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	61.09	68.20	-7.11	54.77	6.32	Peak	217	7
2	5850.00	71.99	122.20	-50.21	65.22	6.77	Peak	217	7
3	5855.00	69.32	110.80	-41.48	62.52	6.80	Peak	217	7
4	5875.00	62.38	105.20	-42.82	55.50	6.88	Peak	217	7
5	5925.00	61.88	68.20	-6.32	54.85	7.03	Peak	217	7
6	11650.00	48.92	54.00	-5.08	33.75	15.17	Average	215	173
7	11650.00	62.80	74.00	-11.20	47.63	15.17	Peak	215	173
8	17475.00	61.40	68.20	-6.80	41.59	19.81	Peak	100	182

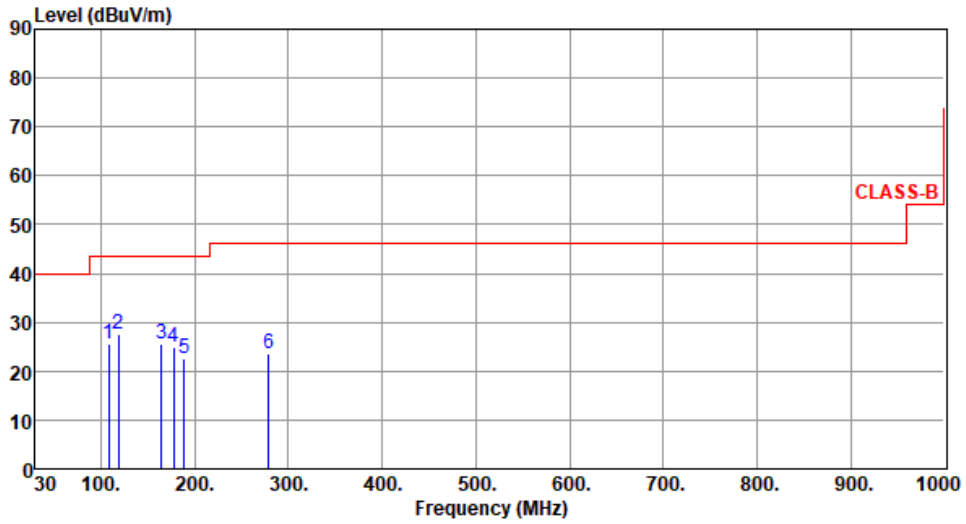
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Configuration 2: PIFA antenna (Antenna No.6)

Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

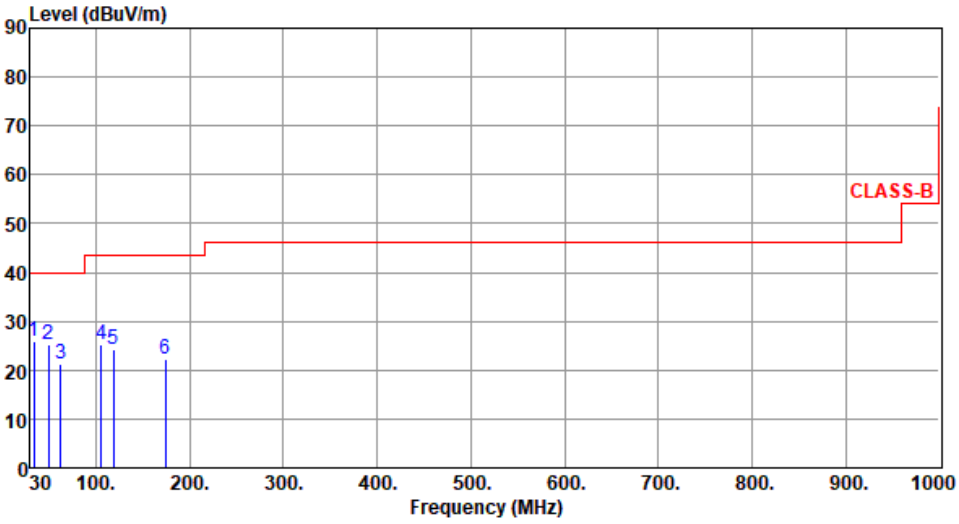


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	108.57	25.51	43.50	-17.99	37.64	-12.13	Peak	---	---
2	118.27	27.50	43.50	-16.00	38.48	-10.98	Peak	---	---
3	164.83	25.46	43.50	-18.04	34.12	-8.66	Peak	---	---
4	177.44	24.89	43.50	-18.61	34.61	-9.72	Peak	---	---
5	189.08	22.57	43.50	-20.93	33.75	-11.18	Peak	---	---
6	279.29	23.50	46.00	-22.50	32.12	-8.62	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

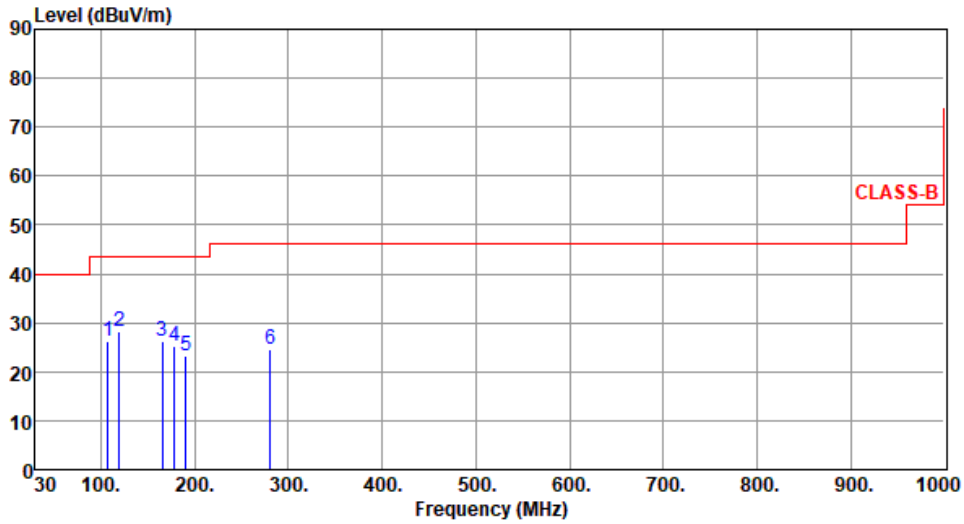


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	33.88	25.99	40.00	-14.01	36.17	-10.18	Peak	---	---
2	49.40	25.35	40.00	-14.65	34.24	-8.89	Peak	---	---
3	62.01	21.34	40.00	-18.66	31.20	-9.86	Peak	---	---
4	105.66	25.28	43.50	-18.22	37.73	-12.45	Peak	---	---
5	118.27	24.11	43.50	-19.39	35.09	-10.98	Peak	---	---
6	174.53	22.23	43.50	-21.27	31.52	-9.29	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

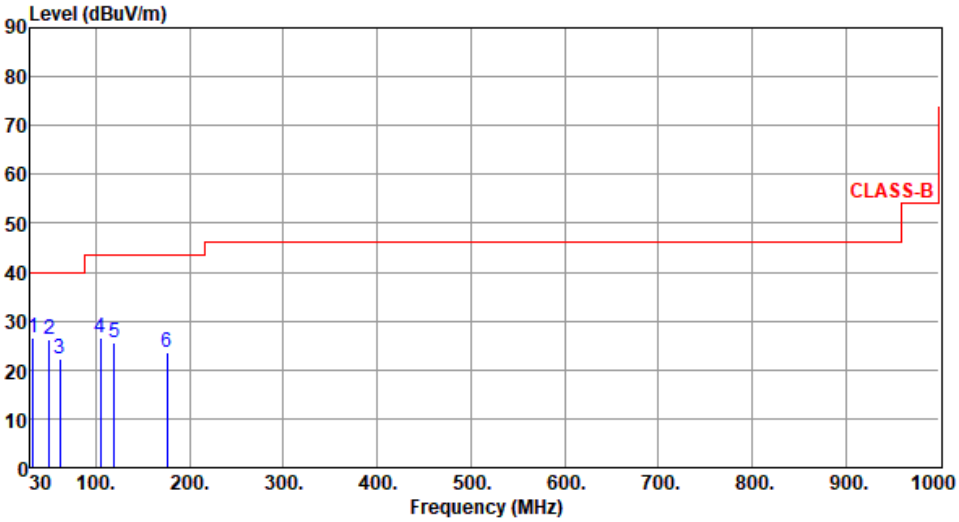


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	107.63	26.20	43.50	-17.30	38.46	-12.26	Peak	---	---
2	119.55	28.16	43.50	-15.34	38.96	-10.80	Peak	---	---
3	165.55	26.33	43.50	-17.17	35.06	-8.73	Peak	---	---
4	178.85	25.33	43.50	-18.17	35.25	-9.92	Peak	---	---
5	190.55	23.19	43.50	-20.31	34.51	-11.32	Peak	---	---
6	280.50	24.60	46.00	-21.40	33.17	-8.57	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69



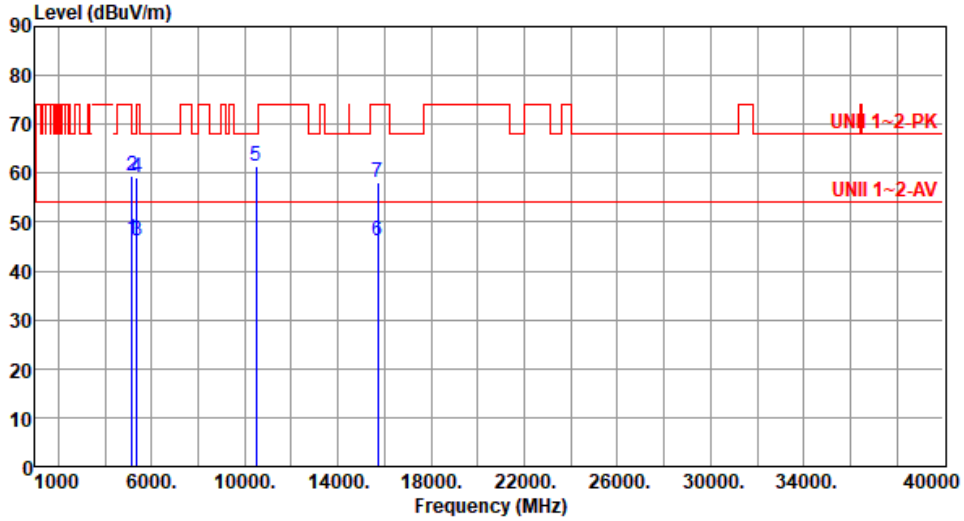
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	32.96	26.66	40.00	-13.34	37.11	-10.45	Peak	---	---
2	50.55	26.33	40.00	-13.67	35.27	-8.94	Peak	---	---
3	61.88	22.18	40.00	-17.82	32.00	-9.82	Peak	---	---
4	104.85	26.55	43.50	-16.95	39.11	-12.56	Peak	---	---
5	119.55	25.55	43.50	-17.95	36.35	-10.80	Peak	---	---
6	175.85	23.63	43.50	-19.87	33.14	-9.51	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	11a	**Test Freq. (MHz)**	5240
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

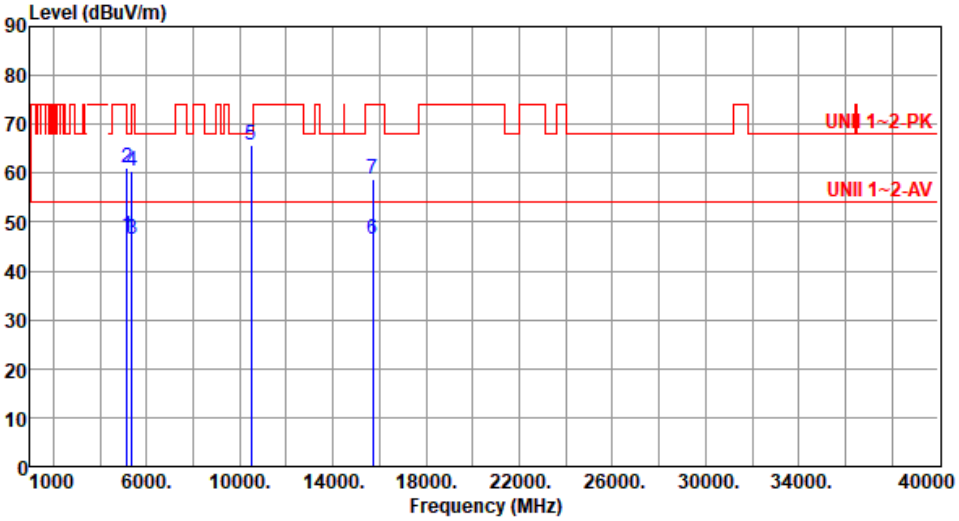


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.55	54.00	-7.45	40.24	6.31	Average	100	180
2	5150.00	59.57	74.00	-14.43	53.26	6.31	Peak	100	180
3	5350.00	46.22	54.00	-7.78	40.50	5.72	Average	100	180
4	5350.00	59.16	74.00	-14.84	53.44	5.72	Peak	100	180
5	10480.00	61.50	68.20	-6.70	46.87	14.63	Peak	231	338
6	15720.00	46.28	54.00	-7.72	30.33	15.95	Average	100	333
7	15720.00	57.98	74.00	-16.02	42.03	15.95	Peak	100	333

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5240
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

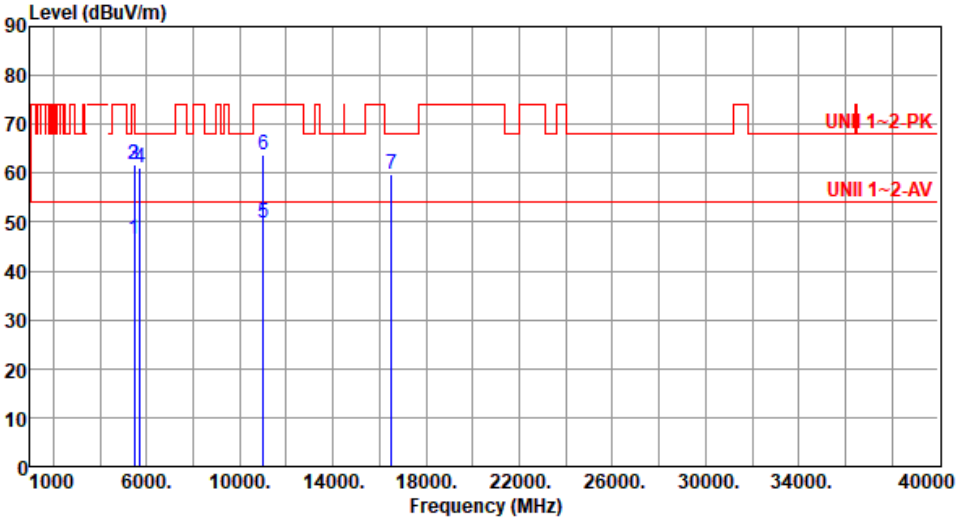


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.19	54.00	-6.81	40.88	6.31	Average	291	263
2	5150.00	61.18	74.00	-12.82	54.87	6.31	Peak	291	263
3	5350.00	46.60	54.00	-7.40	40.88	5.72	Average	291	263
4	5350.00	60.50	74.00	-13.50	54.78	5.72	Peak	291	263
5	10480.00	65.71	68.20	-2.49	51.08	14.63	Peak	288	172
6	15720.00	46.61	54.00	-7.39	30.66	15.95	Average	100	170
7	15720.00	58.83	74.00	-15.17	42.88	15.95	Peak	100	170

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5500
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

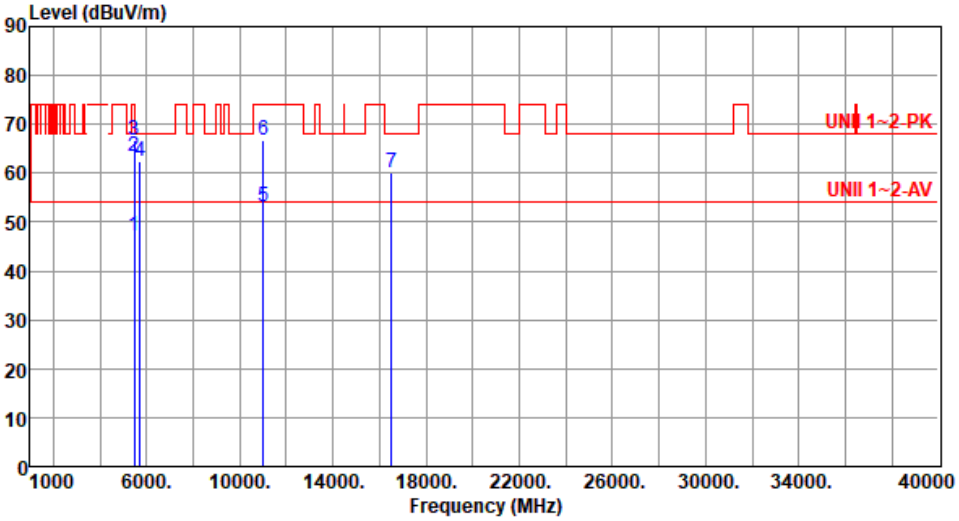


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.47	54.00	-7.53	40.17	6.30	Average	100	190
2	5460.00	61.71	74.00	-12.29	55.41	6.30	Peak	100	190
3	5470.00	61.81	68.20	-6.39	55.49	6.32	Peak	100	190
4	5725.00	61.03	68.20	-7.17	54.44	6.59	Peak	100	190
5	11000.00	49.87	54.00	-4.13	34.22	15.65	Average	222	347
6	11000.00	63.76	74.00	-10.24	48.11	15.65	Peak	222	347
7	16500.00	59.70	68.20	-8.50	42.24	17.46	Peak	100	190

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5500
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

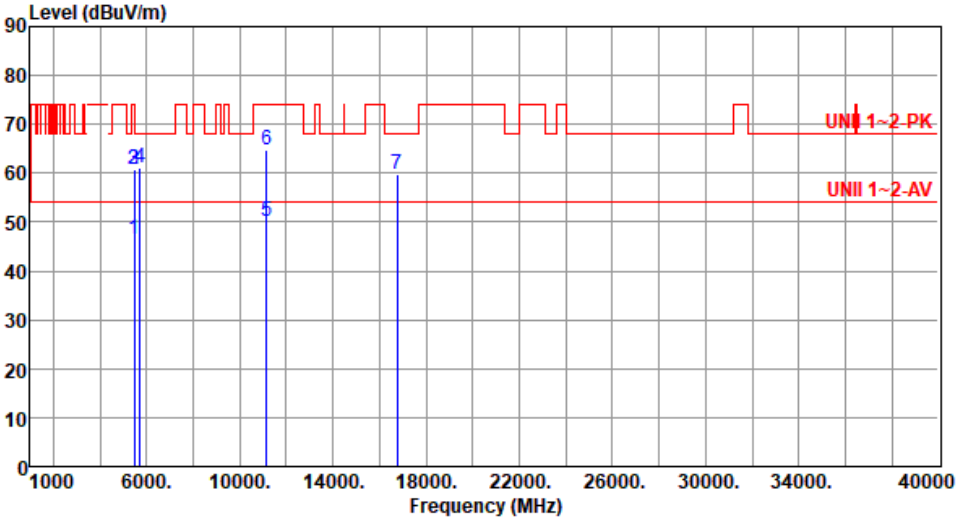


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	47.17	54.00	-6.83	40.87	6.30	Average	199	237
2	5460.00	63.28	74.00	-10.72	56.98	6.30	Peak	199	237
3	5470.00	66.62	68.20	-1.58	60.30	6.32	Peak	199	237
4	5725.00	62.34	68.20	-5.86	55.75	6.59	Peak	199	237
5	11000.00	52.98	54.00	-1.02	37.33	15.65	Average	213	172
6	11000.00	66.69	74.00	-7.31	51.04	15.65	Peak	213	172
7	16500.00	60.17	68.20	-8.03	42.71	17.46	Peak	100	177

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

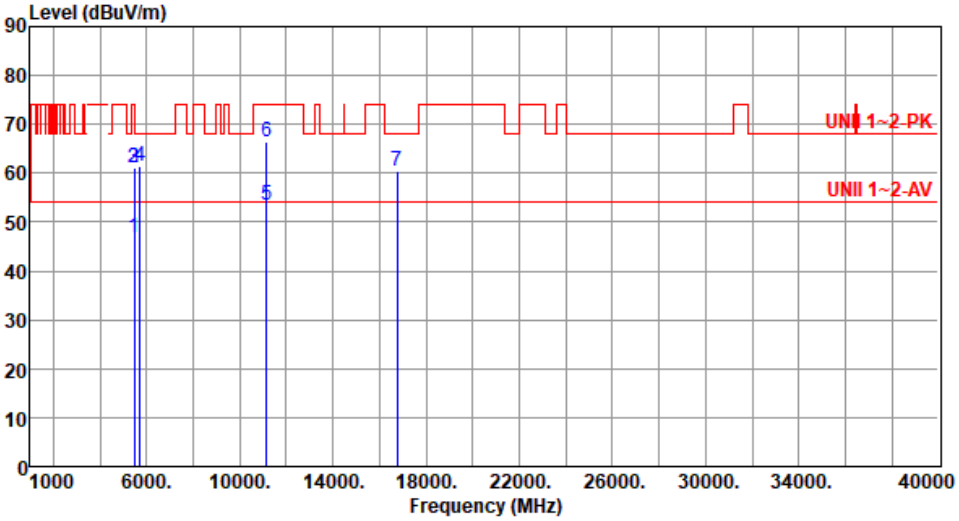


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.62	54.00	-7.38	40.32	6.30	Average	100	191
2	5460.00	60.72	74.00	-13.28	54.42	6.30	Peak	100	191
3	5470.00	60.79	68.20	-7.41	54.47	6.32	Peak	100	191
4	5725.00	61.07	68.20	-7.13	54.48	6.59	Peak	100	191
5	11160.00	50.26	54.00	-3.74	35.11	15.15	Average	236	344
6	11160.00	64.70	74.00	-9.30	49.55	15.15	Peak	236	344
7	16740.00	59.88	68.20	-8.32	42.18	17.70	Peak	100	188

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

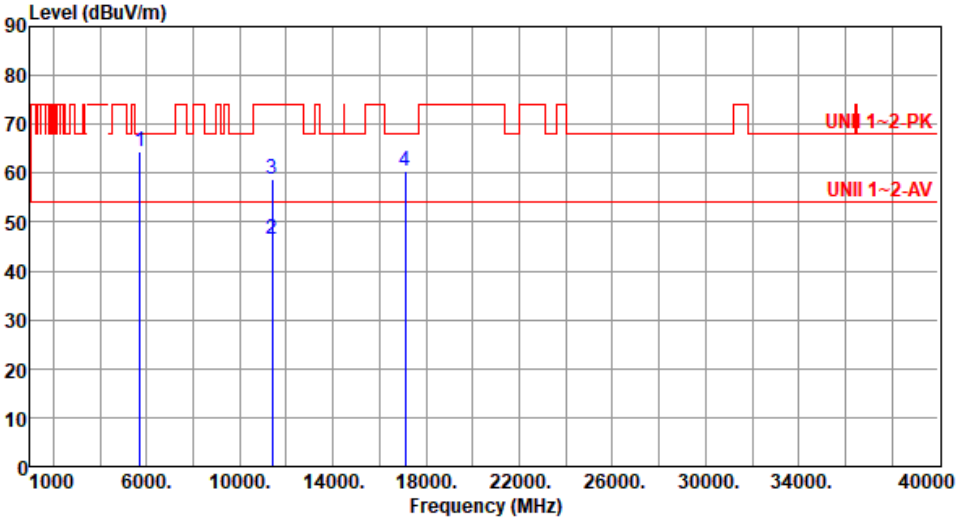


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.92	54.00	-7.08	40.62	6.30	Average	195	238
2	5460.00	61.14	74.00	-12.86	54.84	6.30	Peak	195	238
3	5470.00	61.27	68.20	-6.93	54.95	6.32	Peak	195	238
4	5725.00	61.55	68.20	-6.65	54.96	6.59	Peak	195	238
5	11160.00	53.37	54.00	-0.63	38.22	15.15	Average	226	167
6	11160.00	66.52	74.00	-7.48	51.37	15.15	Peak	226	167
7	16740.00	60.58	68.20	-7.62	42.88	17.70	Peak	100	182

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5700
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

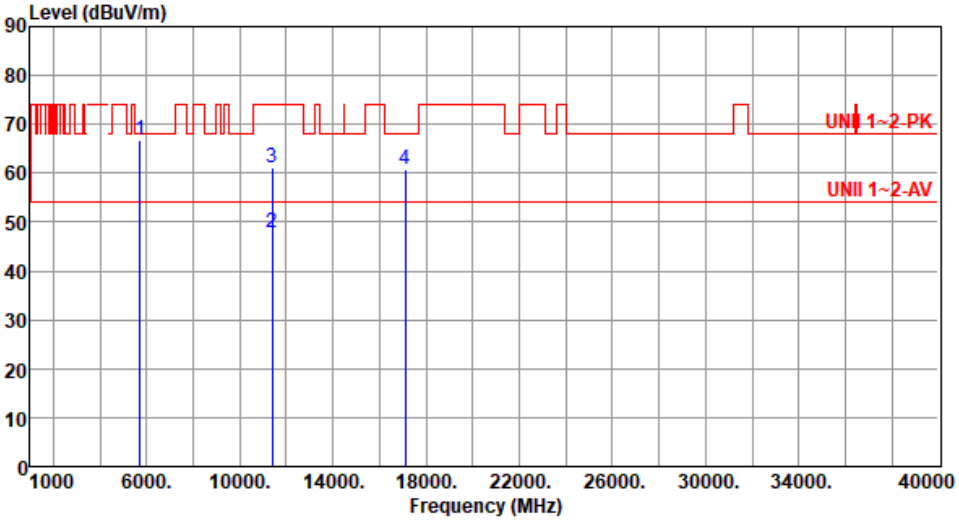


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	64.49	68.20	-3.71	57.90	6.59	Peak	100	185
2	11400.00	46.37	54.00	-7.63	31.22	15.15	Average	228	349
3	11400.00	58.81	74.00	-15.19	43.66	15.15	Peak	228	349
4	17100.00	60.34	68.20	-7.86	42.19	18.15	Peak	100	193

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5700
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

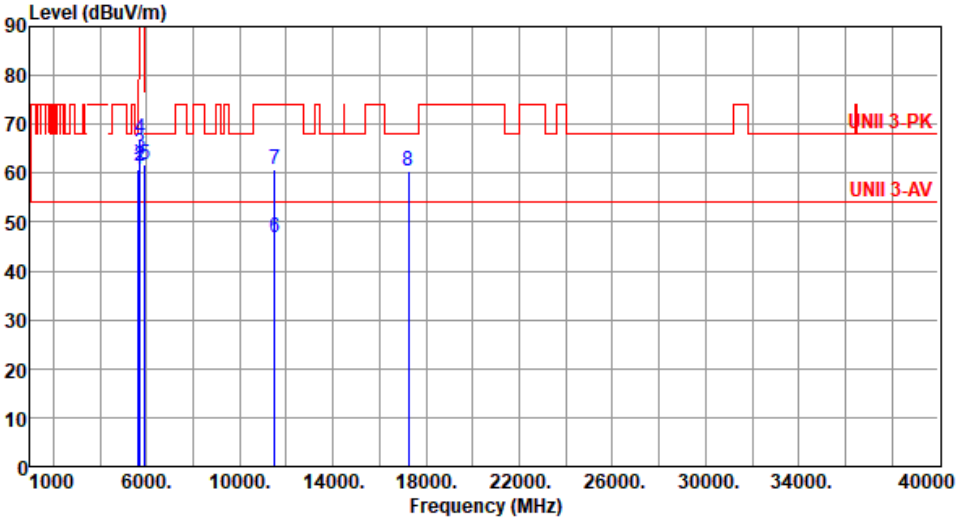


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	66.61	68.20	-1.59	60.02	6.59	Peak	155	228
2	11400.00	47.81	54.00	-6.19	32.66	15.15	Average	218	177
3	11400.00	61.10	74.00	-12.90	45.95	15.15	Peak	218	177
4	17100.00	60.81	68.20	-7.39	42.66	18.15	Peak	100	173

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5745
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

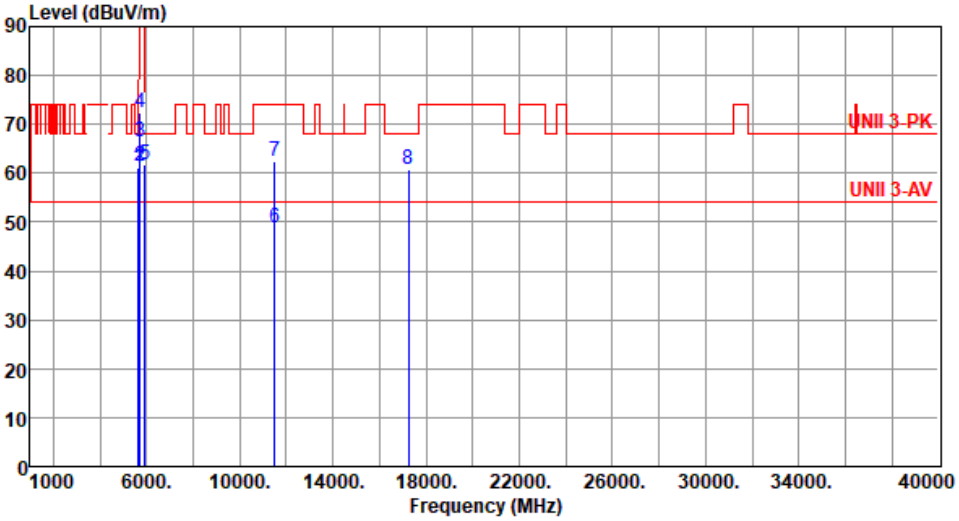


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.65	68.20	-7.55	54.33	6.32	Peak	100	190
2	5700.00	61.38	105.20	-43.82	54.85	6.53	Peak	100	190
3	5720.00	64.24	110.80	-46.56	57.66	6.58	Peak	100	190
4	5725.00	66.92	122.20	-55.28	60.33	6.59	Peak	100	190
5	5925.00	61.61	68.20	-6.59	54.58	7.03	Peak	100	190
6	11490.00	46.92	54.00	-7.08	31.54	15.38	Average	239	335
7	11490.00	60.81	74.00	-13.19	45.43	15.38	Peak	239	335
8	17235.00	60.50	68.20	-7.70	42.24	18.26	Peak	100	333

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5745
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

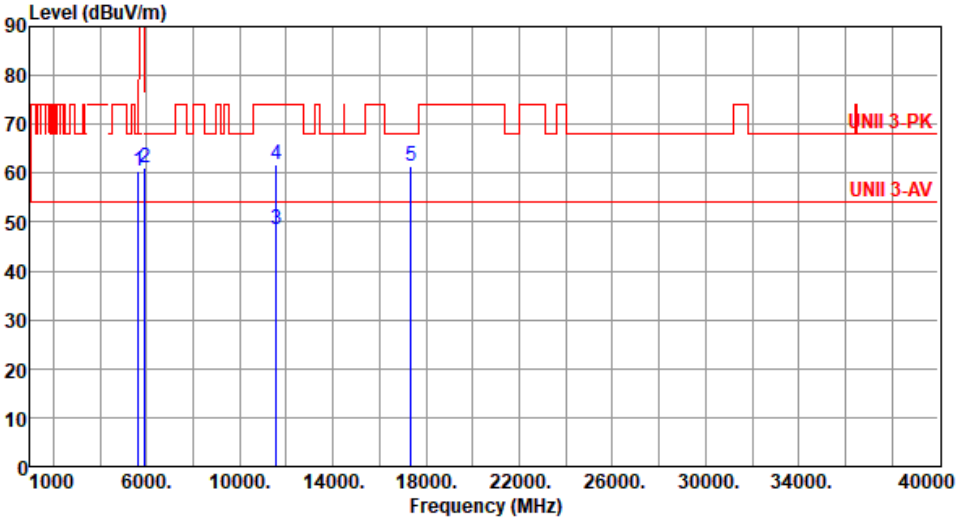


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	61.02	68.20	-7.18	54.70	6.32	Peak	155	220
2	5700.00	61.41	105.20	-43.79	54.88	6.53	Peak	155	220
3	5720.00	66.58	110.80	-44.22	60.00	6.58	Peak	155	220
4	5725.00	72.45	122.20	-49.75	65.86	6.59	Peak	155	220
5	5925.00	61.66	68.20	-6.54	54.63	7.03	Peak	155	220
6	11490.00	48.70	54.00	-5.30	33.32	15.38	Average	265	175
7	11490.00	62.32	74.00	-11.68	46.94	15.38	Peak	265	175
8	17235.00	60.77	68.20	-7.43	42.51	18.26	Peak	100	172

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5785
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

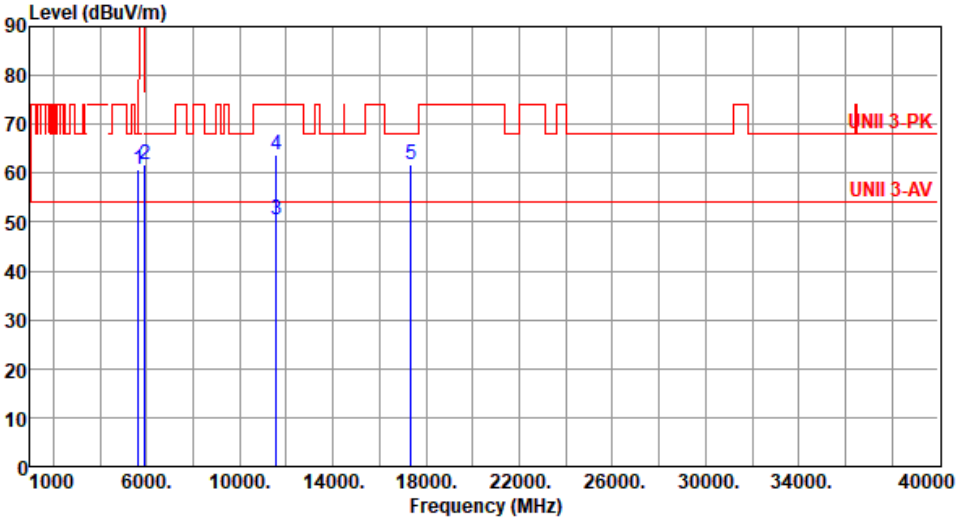


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.47	68.20	-7.73	54.15	6.32	Peak	100	190
2	5925.00	61.26	68.20	-6.94	54.23	7.03	Peak	100	190
3	11570.00	48.57	54.00	-5.43	33.19	15.38	Average	228	330
4	11570.00	61.83	74.00	-12.17	46.45	15.38	Peak	228	330
5	17355.00	61.47	68.20	-6.73	42.49	18.98	Peak	100	325

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5785
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

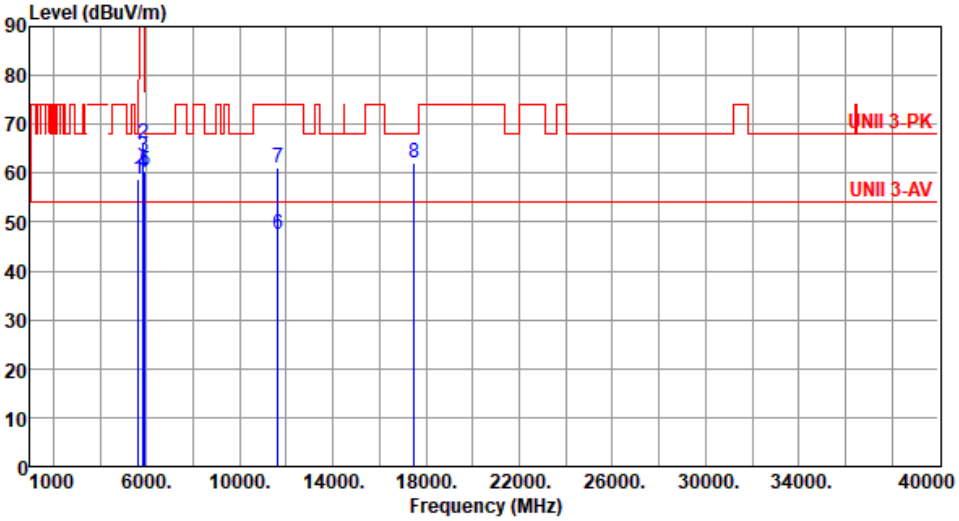


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.87	68.20	-7.33	54.55	6.32	Peak	152	213
2	5925.00	61.62	68.20	-6.58	54.59	7.03	Peak	152	213
3	11570.00	50.49	54.00	-3.51	35.11	15.38	Average	269	174
4	11570.00	63.61	74.00	-10.39	48.23	15.38	Peak	269	174
5	17355.00	61.87	68.20	-6.33	42.89	18.98	Peak	100	187

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

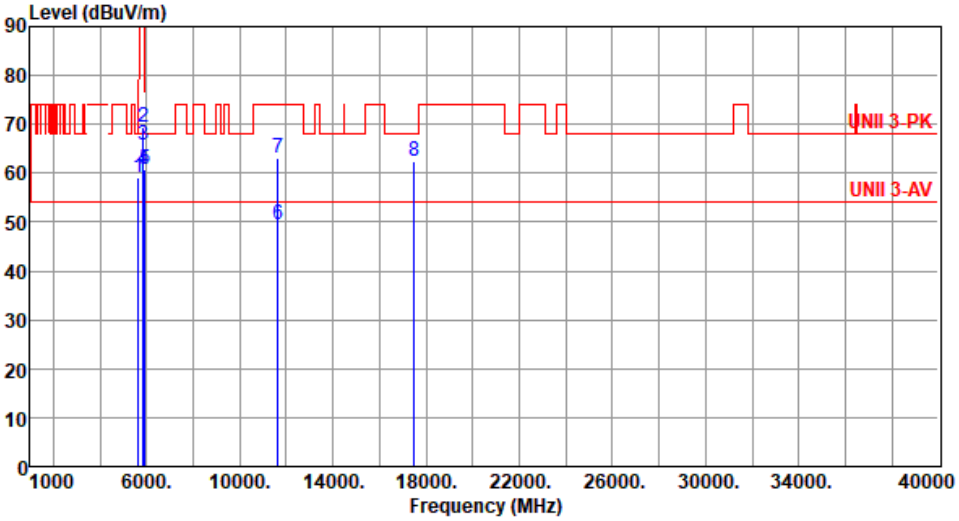


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.76	68.20	-9.44	52.44	6.32	Peak	100	188
2	5850.00	65.99	122.20	-56.21	59.22	6.77	Peak	100	188
3	5855.00	63.32	110.80	-47.48	56.52	6.80	Peak	100	188
4	5875.00	60.13	105.20	-45.07	53.25	6.88	Peak	100	188
5	5925.00	60.28	68.20	-7.92	53.25	7.03	Peak	100	188
6	11650.00	47.39	54.00	-6.61	32.22	15.17	Average	233	334
7	11650.00	61.06	74.00	-12.94	45.89	15.17	Peak	233	334
8	17475.00	62.12	68.20	-6.08	42.31	19.81	Peak	100	335

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

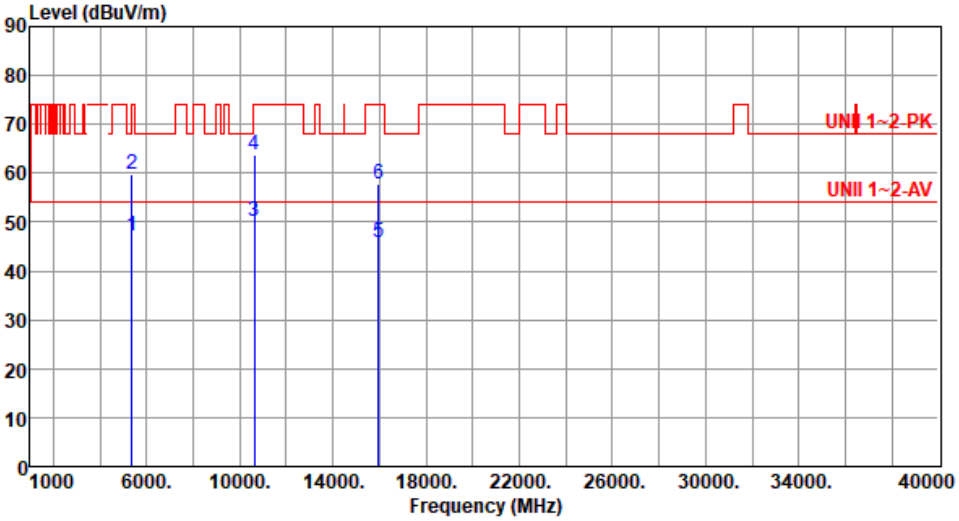


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.19	68.20	-9.01	52.87	6.32	Peak	156	218
2	5850.00	69.43	122.20	-52.77	62.66	6.77	Peak	156	218
3	5855.00	65.79	110.80	-45.01	58.99	6.80	Peak	156	218
4	5875.00	60.87	105.20	-44.33	53.99	6.88	Peak	156	218
5	5925.00	60.69	68.20	-7.51	53.66	7.03	Peak	156	218
6	11650.00	49.34	54.00	-4.66	34.17	15.17	Average	264	170
7	11650.00	63.05	74.00	-10.95	47.88	15.17	Peak	264	170
8	17475.00	62.57	68.20	-5.63	42.76	19.81	Peak	100	180

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5320
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

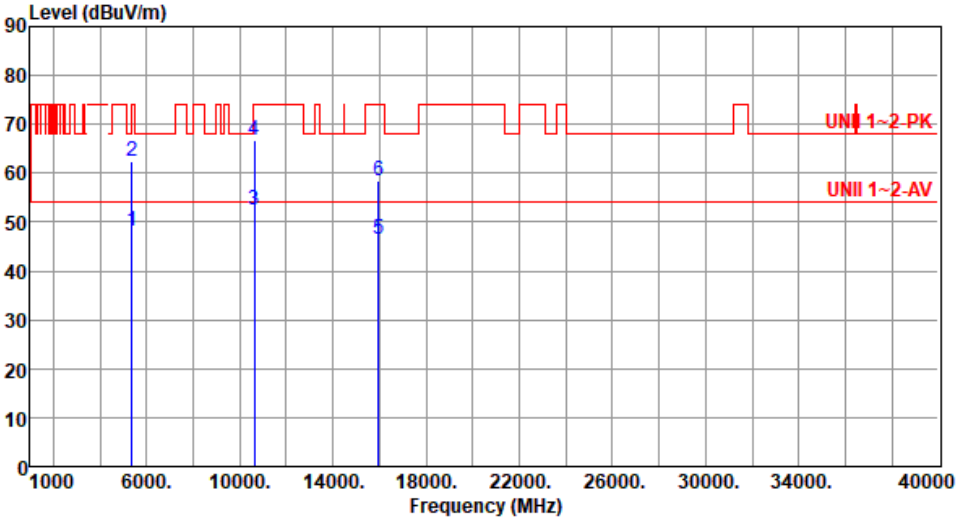


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	47.27	54.00	-6.73	41.55	5.72	Average	115	173
2	5350.00	59.70	74.00	-14.30	53.98	5.72	Peak	115	173
3	10640.00	50.06	54.00	-3.94	35.20	14.86	Average	175	9
4	10640.00	63.84	74.00	-10.16	48.98	14.86	Peak	175	9
5	15960.00	45.98	54.00	-8.02	30.33	15.65	Average	100	10
6	15960.00	57.90	74.00	-16.10	42.25	15.65	Peak	100	10

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5320
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

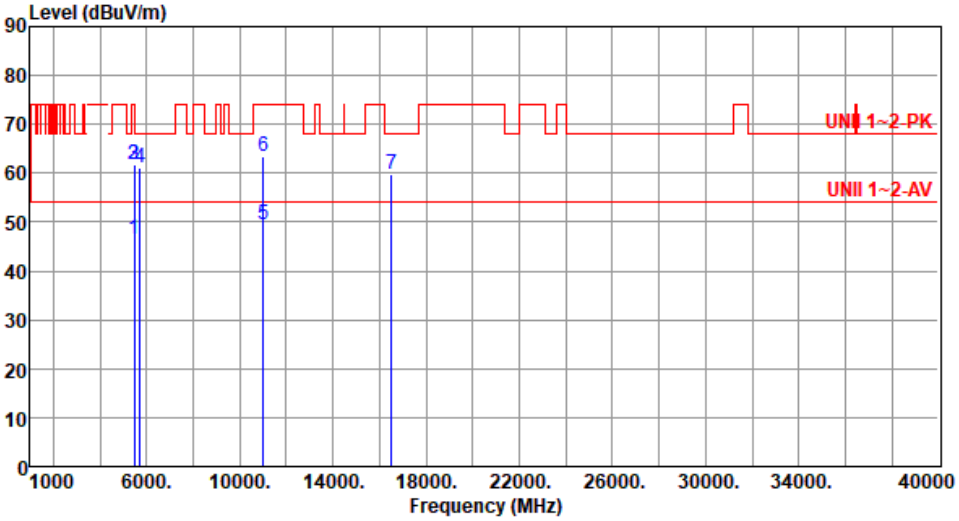


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	48.27	54.00	-5.73	42.55	5.72	Average	103	212
2	5350.00	62.38	74.00	-11.62	56.66	5.72	Peak	103	212
3	10640.00	52.41	54.00	-1.59	37.55	14.86	Average	187	177
4	10640.00	66.86	74.00	-7.14	52.00	14.86	Peak	187	177
5	15960.00	46.43	54.00	-7.57	30.78	15.65	Average	100	180
6	15960.00	58.53	74.00	-15.47	42.88	15.65	Peak	100	180

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5500
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

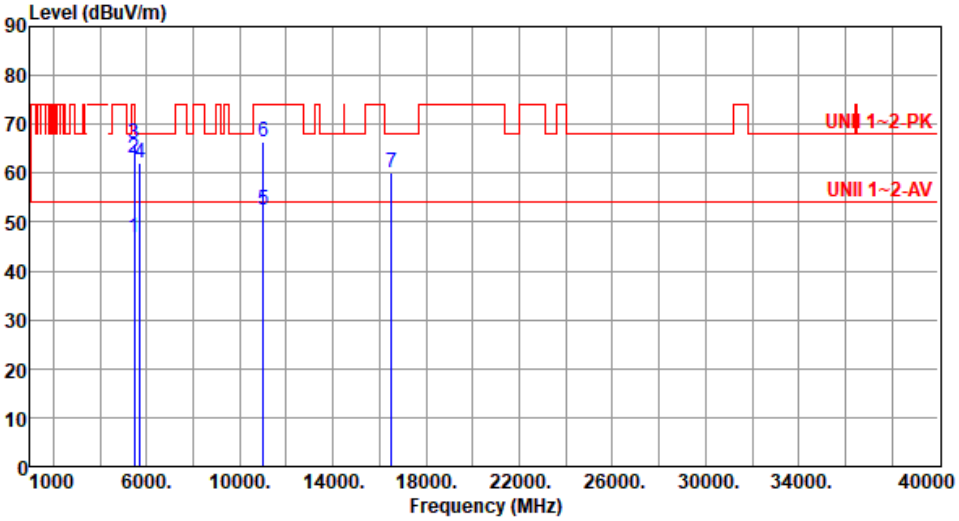


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.39	54.00	-7.61	40.09	6.30	Average	100	184
2	5460.00	61.61	74.00	-12.39	55.31	6.30	Peak	100	184
3	5470.00	61.88	68.20	-6.32	55.56	6.32	Peak	100	184
4	5725.00	60.97	68.20	-7.23	54.38	6.59	Peak	100	184
5	11000.00	49.52	54.00	-4.48	33.87	15.65	Average	225	348
6	11000.00	63.32	74.00	-10.68	47.67	15.65	Peak	225	348
7	16500.00	59.63	68.20	-8.57	42.17	17.46	Peak	100	183

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5500
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

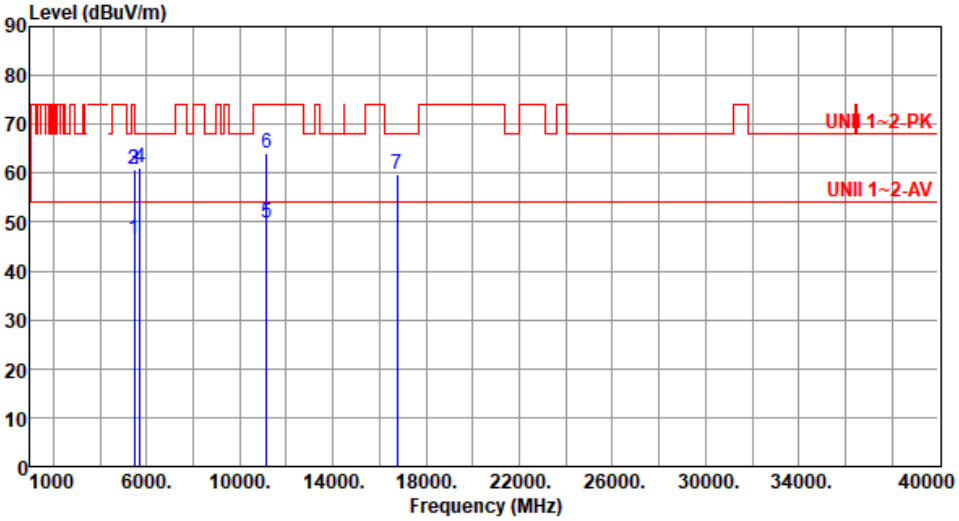


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.92	54.00	-7.08	40.62	6.30	Average	200	233
2	5460.00	63.00	74.00	-11.00	56.70	6.30	Peak	200	233
3	5470.00	66.19	68.20	-2.01	59.87	6.32	Peak	200	233
4	5725.00	62.22	68.20	-5.98	55.63	6.59	Peak	200	233
5	11000.00	52.54	54.00	-1.46	36.89	15.65	Average	211	174
6	11000.00	66.28	74.00	-7.72	50.63	15.65	Peak	211	174
7	16500.00	60.09	68.20	-8.11	42.63	17.46	Peak	100	175

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5580
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

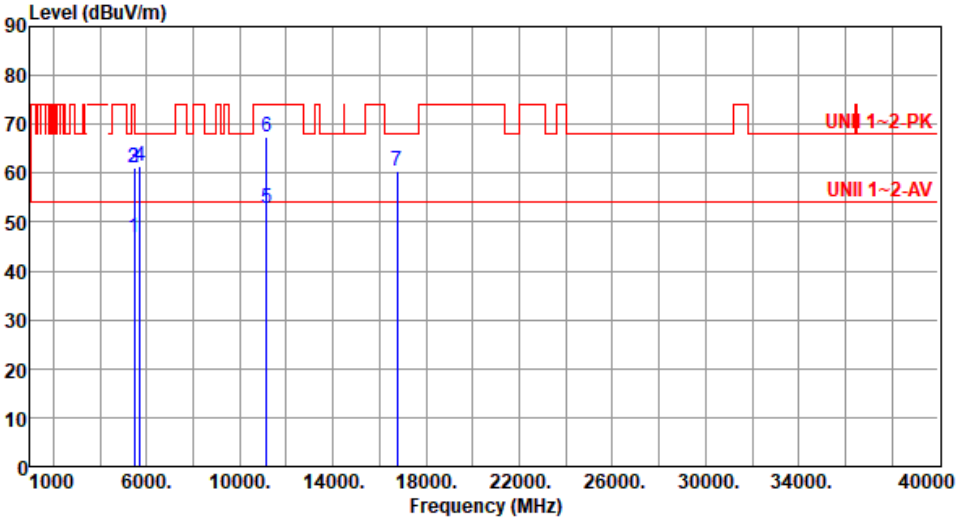


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.55	54.00	-7.45	40.25	6.30	Average	100	193
2	5460.00	60.68	74.00	-13.32	54.38	6.30	Peak	100	193
3	5470.00	60.72	68.20	-7.48	54.40	6.32	Peak	100	193
4	5725.00	60.97	68.20	-7.23	54.38	6.59	Peak	100	193
5	11160.00	49.70	54.00	-4.30	34.55	15.15	Average	229	349
6	11160.00	64.11	74.00	-9.89	48.96	15.15	Peak	229	349
7	16740.00	59.78	68.20	-8.42	42.08	17.70	Peak	100	188

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5580
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

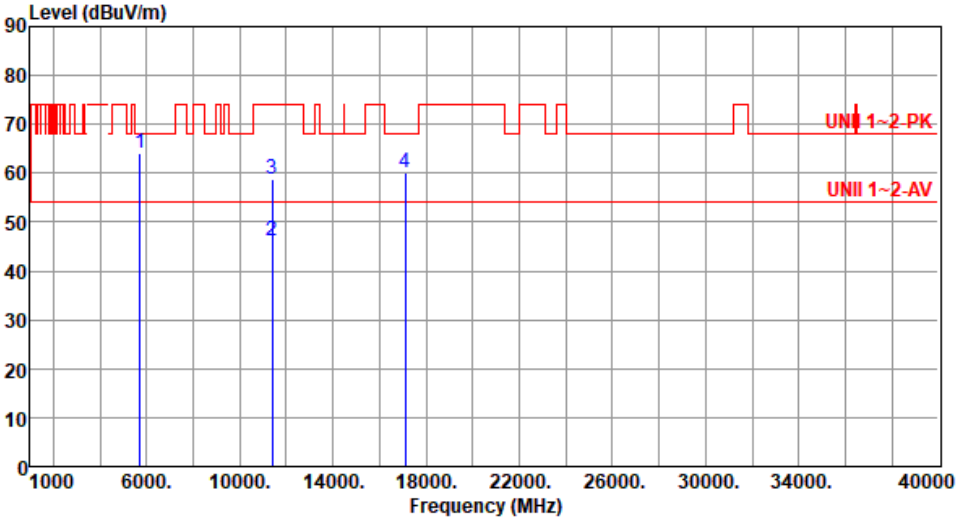


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.88	54.00	-7.12	40.58	6.30	Average	193	234
2	5460.00	61.04	74.00	-12.96	54.74	6.30	Peak	193	234
3	5470.00	61.15	68.20	-7.05	54.83	6.32	Peak	193	234
4	5725.00	61.44	68.20	-6.76	54.85	6.59	Peak	193	234
5	11160.00	52.72	54.00	-1.28	37.57	15.15	Average	225	168
6	11160.00	67.37	74.00	-6.63	52.22	15.15	Peak	225	168
7	16740.00	60.41	68.20	-7.79	42.71	17.70	Peak	100	186

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5700
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

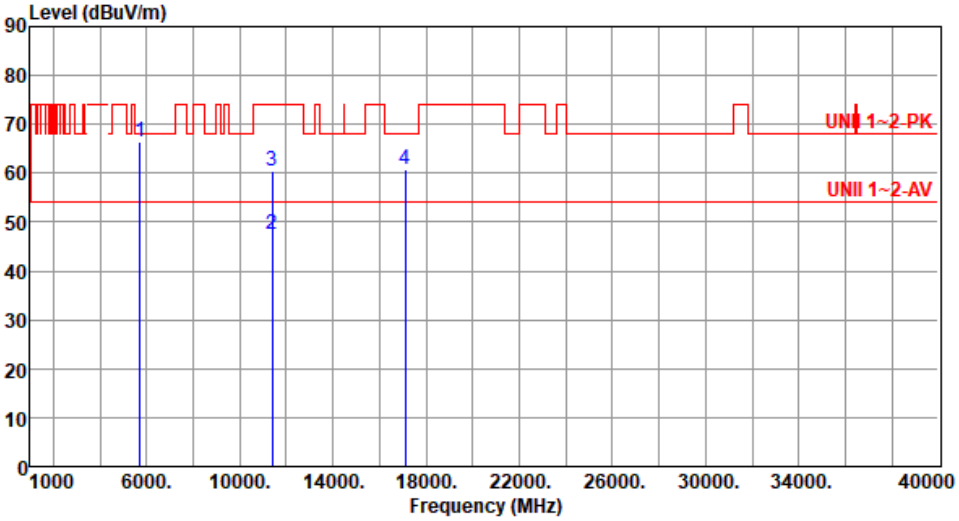


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	64.14	68.20	-4.06	57.55	6.59	Peak	100	186
2	11400.00	46.30	54.00	-7.70	31.15	15.15	Average	233	351
3	11400.00	58.67	74.00	-15.33	43.52	15.15	Peak	233	351
4	17100.00	60.23	68.20	-7.97	42.08	18.15	Peak	100	190

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5700
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

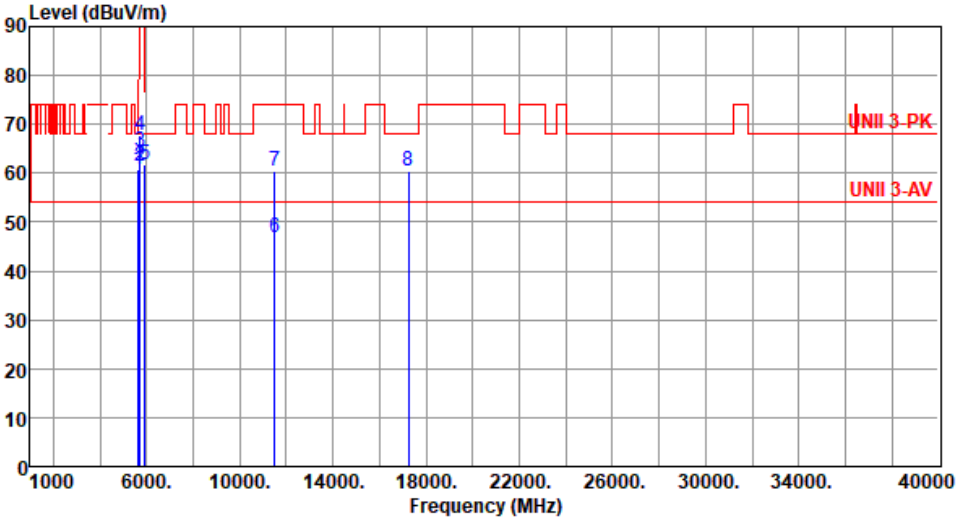


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	66.36	68.20	-1.84	59.77	6.59	Peak	159	239
2	11400.00	47.53	54.00	-6.47	32.38	15.15	Average	220	180
3	11400.00	60.57	74.00	-13.43	45.42	15.15	Peak	220	180
4	17100.00	60.69	68.20	-7.51	42.54	18.15	Peak	100	175

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5745
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

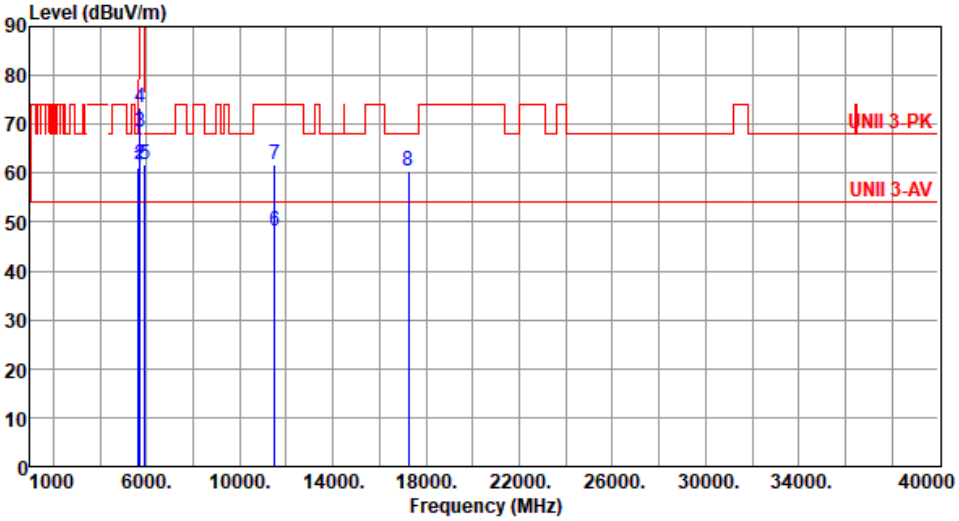


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.77	68.20	-7.43	54.45	6.32	Peak	100	192
2	5700.00	61.43	105.20	-43.77	54.90	6.53	Peak	100	192
3	5720.00	64.33	110.80	-46.47	57.75	6.58	Peak	100	192
4	5725.00	67.84	122.20	-54.36	61.25	6.59	Peak	100	192
5	5925.00	61.66	68.20	-6.54	54.63	7.03	Peak	100	192
6	11490.00	46.79	54.00	-7.21	31.41	15.38	Average	245	344
7	11490.00	60.53	74.00	-13.47	45.15	15.38	Peak	245	344
8	17235.00	60.43	68.20	-7.77	42.17	18.26	Peak	100	349

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5745
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

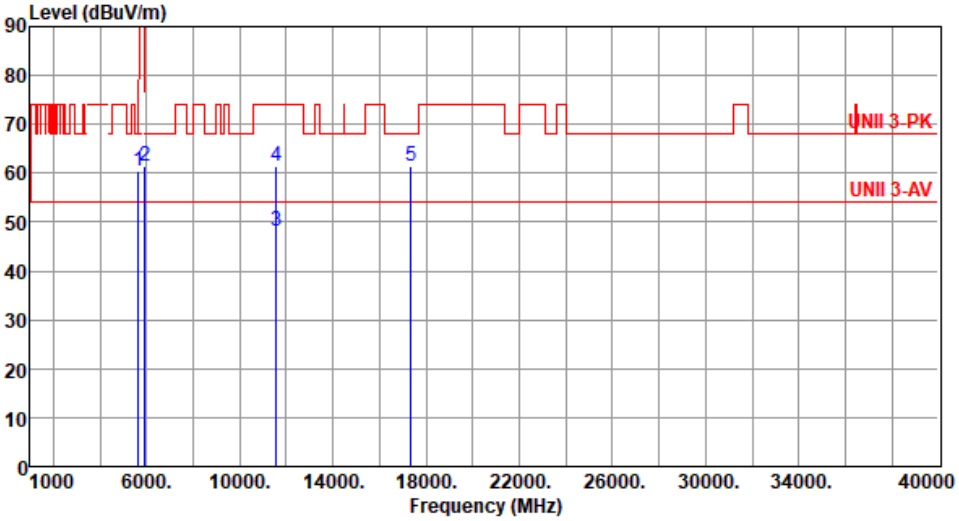


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	61.20	68.20	-7.00	54.88	6.32	Peak	159	223
2	5700.00	61.86	105.20	-43.34	55.33	6.53	Peak	159	223
3	5720.00	68.54	110.80	-42.26	61.96	6.58	Peak	159	223
4	5725.00	73.34	122.20	-48.86	66.75	6.59	Peak	159	223
5	5925.00	61.90	68.20	-6.30	54.87	7.03	Peak	159	223
6	11490.00	48.22	54.00	-5.78	32.84	15.38	Average	256	177
7	11490.00	61.92	74.00	-12.08	46.54	15.38	Peak	256	177
8	17235.00	60.50	68.20	-7.70	42.24	18.26	Peak	100	166

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5785
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

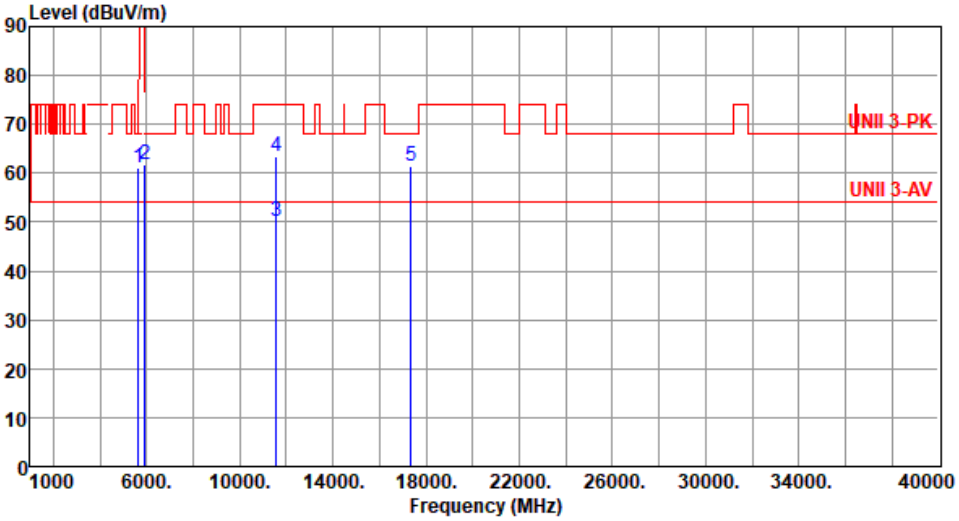


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.55	68.20	-7.65	54.23	6.32	Peak	100	185
2	5925.00	61.43	68.20	-6.77	54.40	7.03	Peak	100	185
3	11570.00	48.32	54.00	-5.68	32.94	15.38	Average	226	336
4	11570.00	61.60	74.00	-12.40	46.22	15.38	Peak	226	336
5	17355.00	61.33	68.20	-6.87	42.35	18.98	Peak	100	328

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5785
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

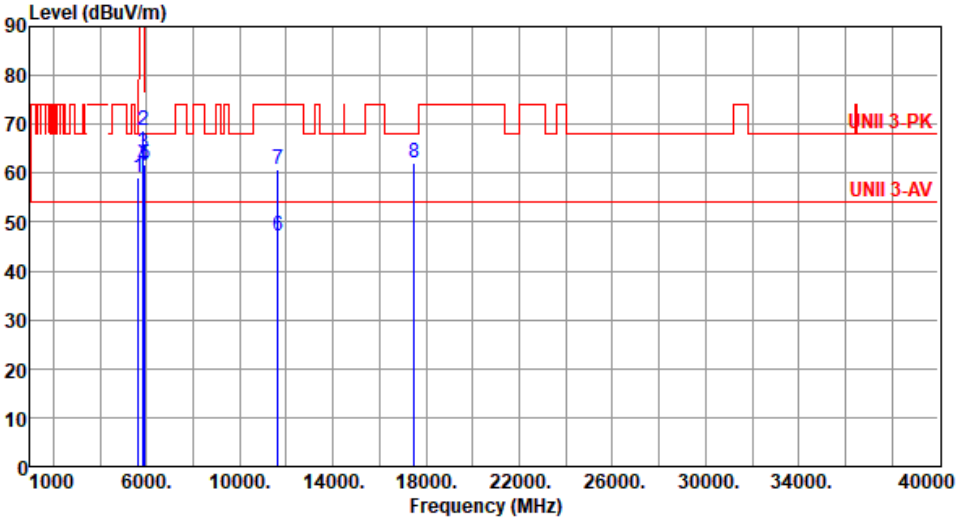


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	61.04	68.20	-7.16	54.72	6.32	Peak	163	205
2	5925.00	61.88	68.20	-6.32	54.85	7.03	Peak	163	205
3	11570.00	50.26	54.00	-3.74	34.88	15.38	Average	273	170
4	11570.00	63.35	74.00	-10.65	47.97	15.38	Peak	273	170
5	17355.00	61.59	68.20	-6.61	42.61	18.98	Peak	100	168

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5825
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65

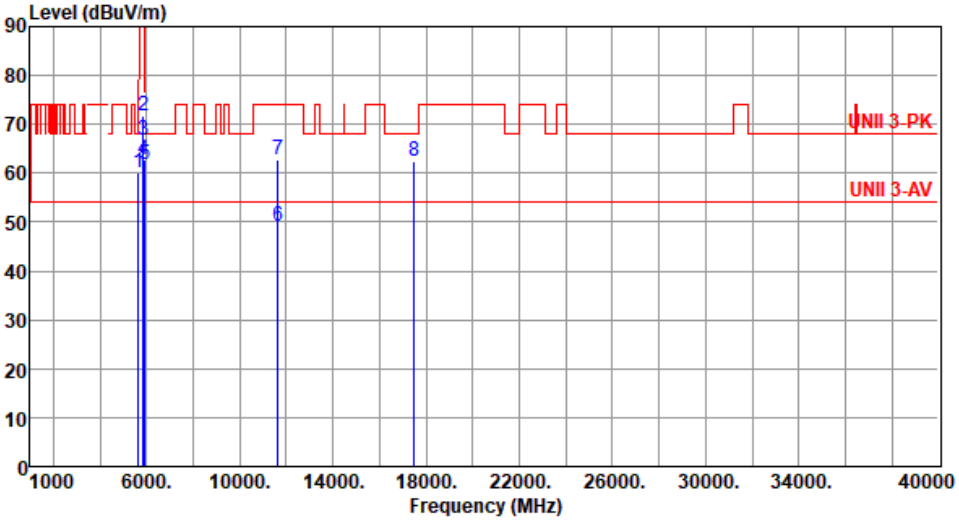


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.20	68.20	-9.00	52.88	6.32	Peak	100	183
2	5850.00	68.64	122.20	-53.56	61.87	6.77	Peak	100	183
3	5855.00	64.24	110.80	-46.56	57.44	6.80	Peak	100	183
4	5875.00	61.48	105.20	-43.72	54.60	6.88	Peak	100	183
5	5925.00	61.61	68.20	-6.59	54.58	7.03	Peak	100	183
6	11650.00	47.32	54.00	-6.68	32.15	15.17	Average	248	339
7	11650.00	60.65	74.00	-13.35	45.48	15.17	Peak	248	339
8	17475.00	62.10	68.20	-6.10	42.29	19.81	Peak	100	346

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5825
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.09	68.20	-8.11	53.77	6.32	Peak	154	225
2	5850.00	71.62	122.20	-50.58	64.85	6.77	Peak	154	225
3	5855.00	66.65	110.80	-44.15	59.85	6.80	Peak	155	225
4	5875.00	62.76	105.20	-42.44	55.88	6.88	Peak	154	225
5	5925.00	61.91	68.20	-6.29	54.88	7.03	Peak	155	225
6	11650.00	49.05	54.00	-4.95	33.88	15.17	Average	274	168
7	11650.00	62.72	74.00	-11.28	47.55	15.17	Peak	274	168
8	17475.00	62.40	68.20	-5.80	42.59	19.81	Peak	100	187

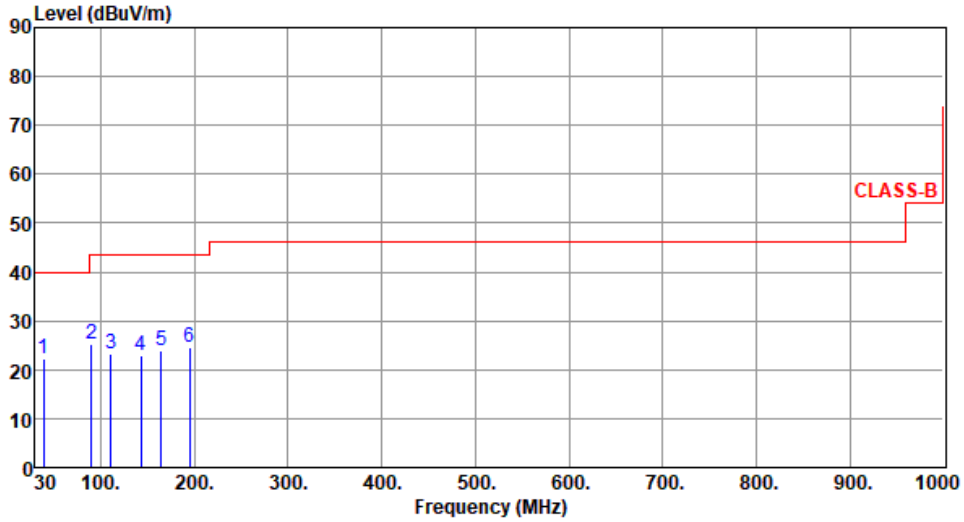
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Configuration 3: Dipole antenna (Antenna No.8)

Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Horizontal		

Test By :Akun Chung Temperature(°C):23 Humidity(%):69

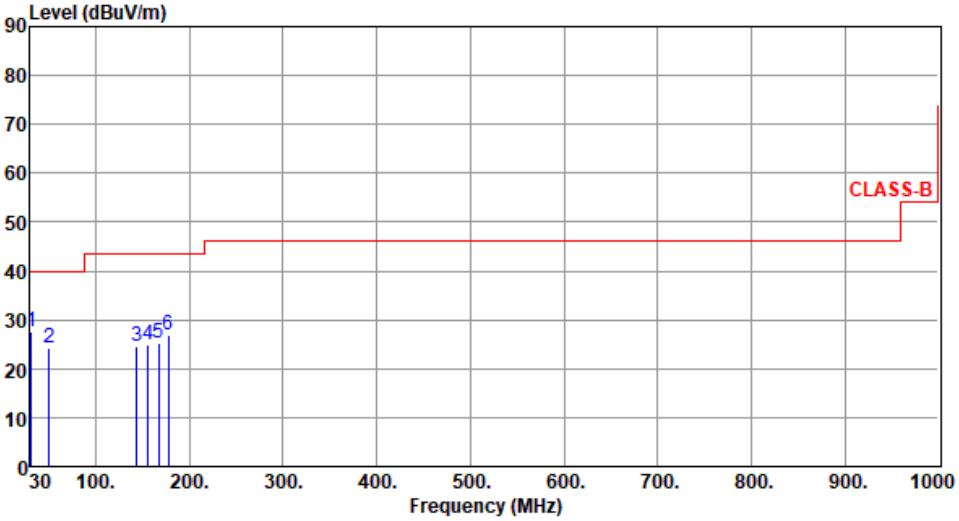


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	38.73	22.31	40.00	-17.69	31.64	-9.33	Peak	---	---
2	90.14	25.08	43.50	-18.42	39.80	-14.72	Peak	---	---
3	110.51	23.39	43.50	-20.11	35.24	-11.85	Peak	---	---
4	142.52	22.79	43.50	-20.71	31.70	-8.91	Peak	---	---
5	164.83	23.83	43.50	-19.67	32.49	-8.66	Peak	---	---
6	194.90	24.65	43.50	-18.85	36.28	-11.63	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

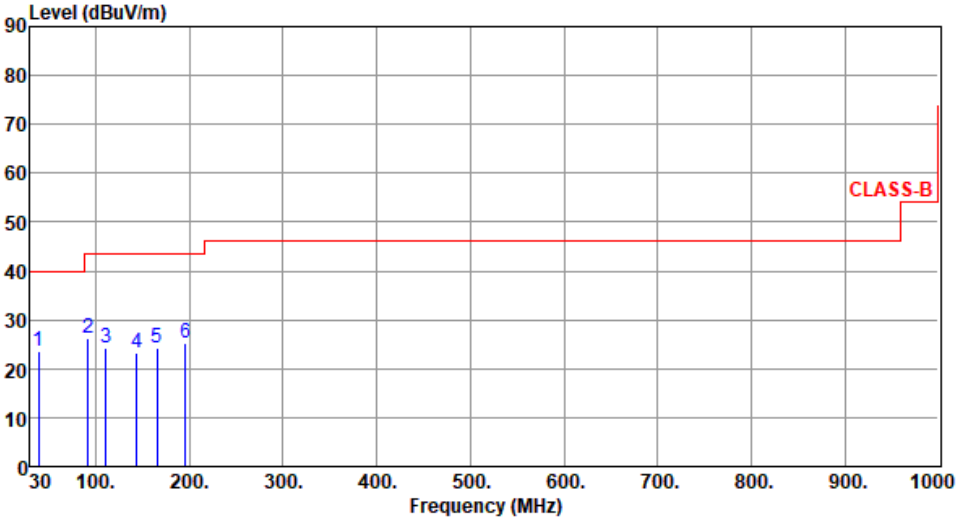


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	30.97	27.59	40.00	-12.41	38.25	-10.66	Peak	---	---
2	50.37	24.28	40.00	-15.72	33.16	-8.88	Peak	---	---
3	143.49	24.72	43.50	-18.78	33.52	-8.80	Peak	---	---
4	156.10	24.75	43.50	-18.75	33.25	-8.50	Peak	---	---
5	166.77	25.13	43.50	-18.37	33.90	-8.77	Peak	---	---
6	177.44	26.74	43.50	-16.76	36.46	-9.72	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

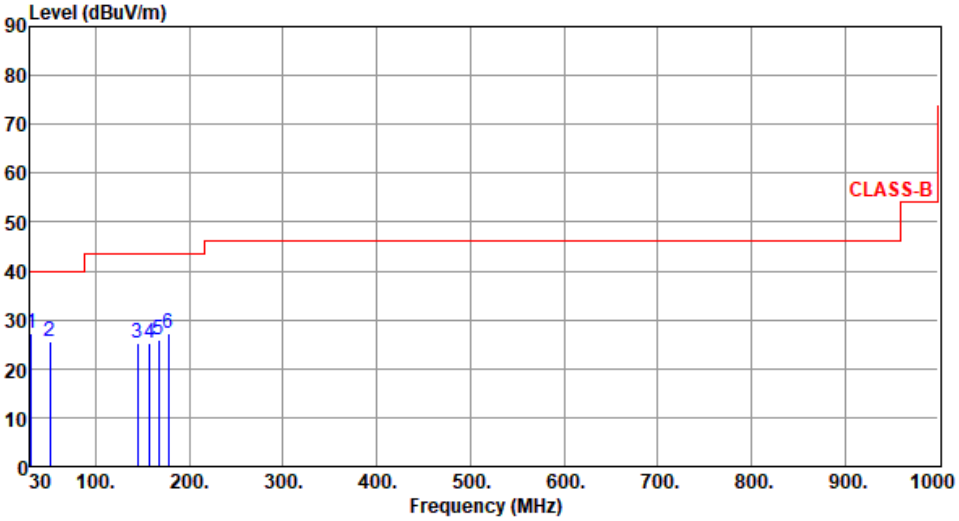


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	39.36	23.51	40.00	-16.49	32.74	-9.23	Peak	---	---
2	91.88	26.33	43.50	-17.17	41.03	-14.70	Peak	---	---
3	111.22	24.18	43.50	-19.32	35.93	-11.75	Peak	---	---
4	143.53	23.22	43.50	-20.28	32.02	-8.80	Peak	---	---
5	165.42	24.16	43.50	-19.34	32.88	-8.72	Peak	---	---
6	195.55	25.18	43.50	-18.32	36.87	-11.69	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69



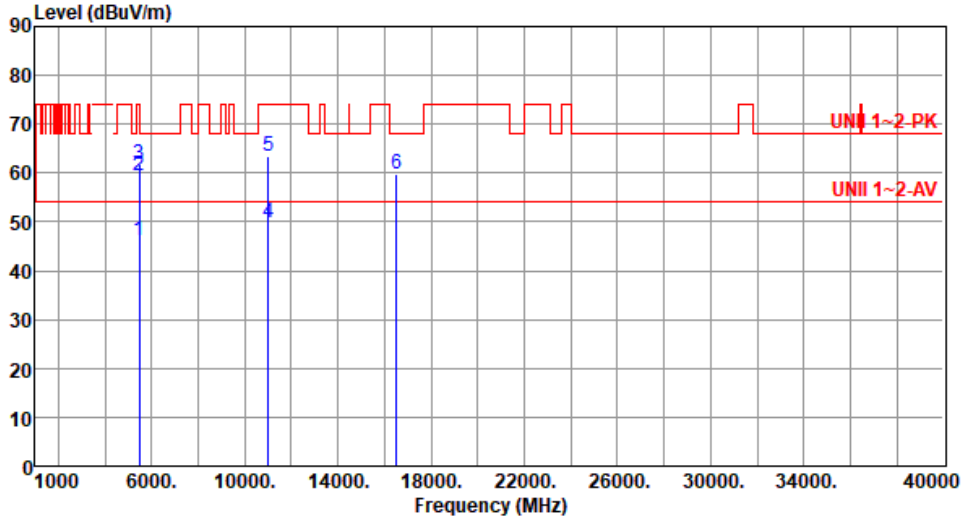
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	31.33	27.30	40.00	-12.70	37.87	-10.57	Peak	---	---
2	51.55	25.41	40.00	-14.59	34.48	-9.07	Peak	---	---
3	144.25	25.22	43.50	-18.28	33.99	-8.77	Peak	---	---
4	157.52	25.32	43.50	-18.18	33.77	-8.45	Peak	---	---
5	167.25	26.03	43.50	-17.47	34.82	-8.79	Peak	---	---
6	177.84	27.18	43.50	-16.32	36.98	-9.80	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	11a	**Test Freq. (MHz)**	5500
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

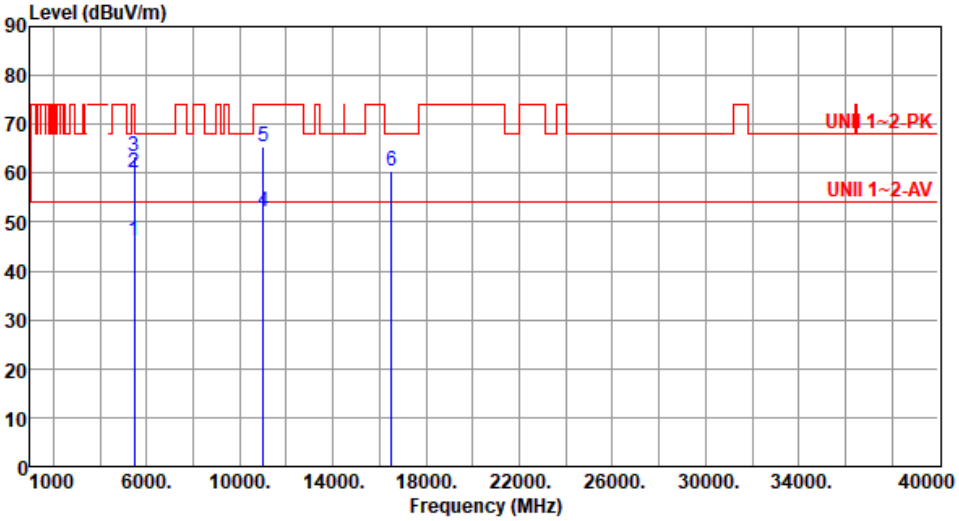


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.17	54.00	-7.83	39.87	6.30	Average	100	181
2	5460.00	59.41	74.00	-14.59	53.11	6.30	Peak	100	181
3	5470.00	61.87	68.20	-6.33	55.55	6.32	Peak	100	181
4	11000.00	49.87	54.00	-4.13	34.22	15.65	Average	228	333
5	11000.00	63.50	74.00	-10.50	47.85	15.65	Peak	228	333
6	16500.00	59.87	68.20	-8.33	42.41	17.46	Peak	100	335

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5500
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

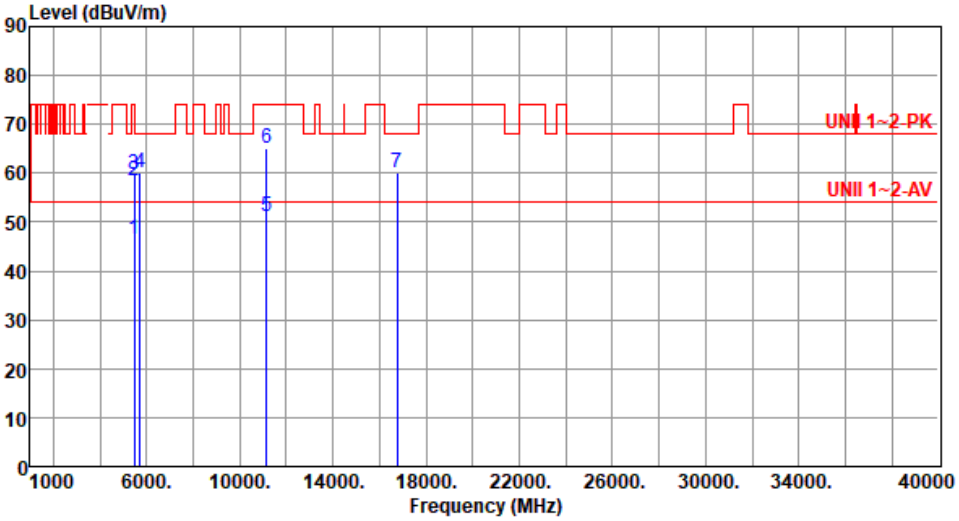


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.28	54.00	-7.72	39.98	6.30	Average	230	302
2	5460.00	59.95	74.00	-14.05	53.65	6.30	Peak	230	302
3	5470.00	63.27	68.20	-4.93	56.95	6.32	Peak	230	302
4	11000.00	52.23	54.00	-1.77	36.58	15.65	Average	279	159
5	11000.00	65.55	74.00	-8.45	49.90	15.65	Peak	279	159
6	16500.00	60.31	68.20	-7.89	42.85	17.46	Peak	100	166

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

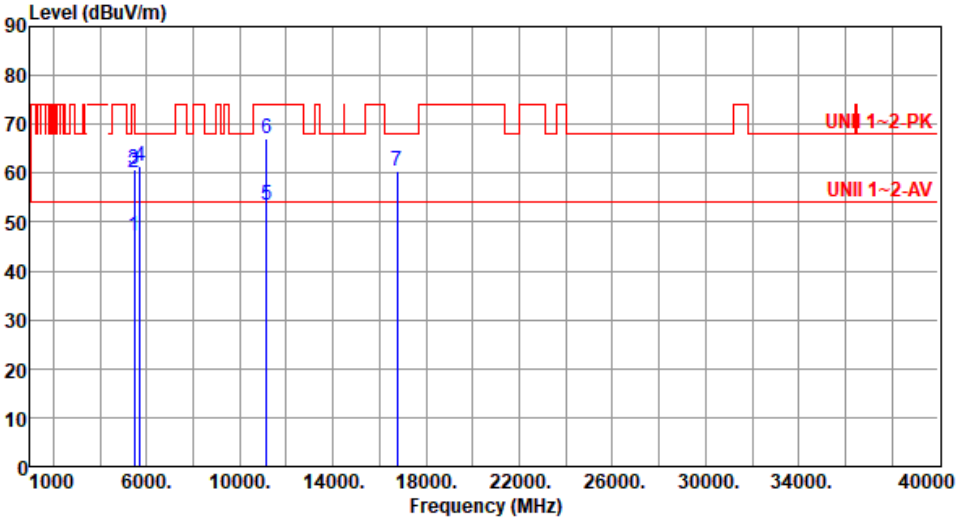


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.62	54.00	-7.38	40.32	6.30	Average	100	180
2	5460.00	58.58	74.00	-15.42	52.28	6.30	Peak	100	180
3	5470.00	59.80	68.20	-8.40	53.48	6.32	Peak	100	180
4	5725.00	60.01	68.20	-8.19	53.42	6.59	Peak	100	180
5	11160.00	51.15	54.00	-2.85	36.00	15.15	Average	192	327
6	11160.00	65.25	74.00	-8.75	50.10	15.15	Peak	192	327
7	16740.00	59.98	68.20	-8.22	42.28	17.70	Peak	100	336

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

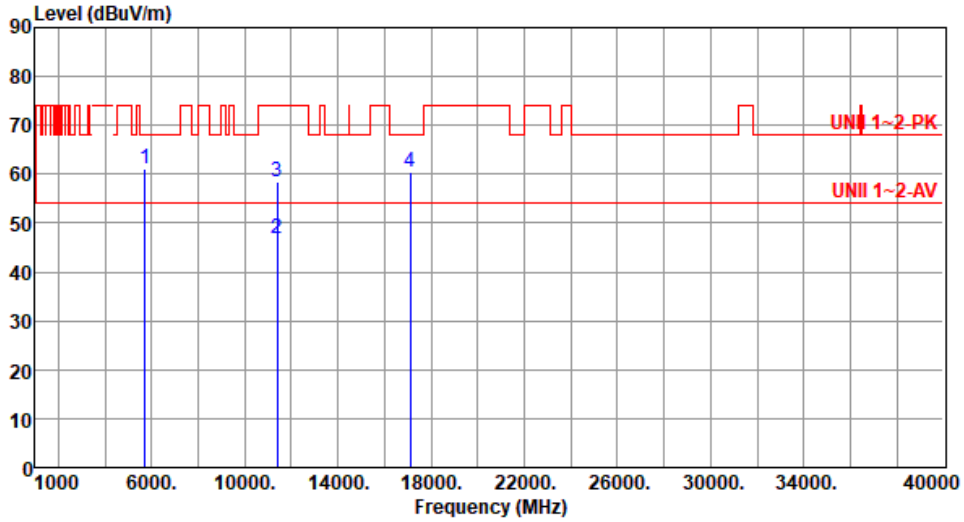


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	47.03	54.00	-6.97	40.73	6.30	Average	238	308
2	5460.00	60.17	74.00	-13.83	53.87	6.30	Peak	238	308
3	5470.00	60.92	68.20	-7.28	54.60	6.32	Peak	238	308
4	5725.00	61.39	68.20	-6.81	54.80	6.59	Peak	238	308
5	11160.00	53.55	54.00	-0.45	38.40	15.15	Average	195	163
6	11160.00	67.25	74.00	-6.75	52.10	15.15	Peak	195	163
7	16740.00	60.36	68.20	-7.84	42.66	17.70	Peak	100	166

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5700
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

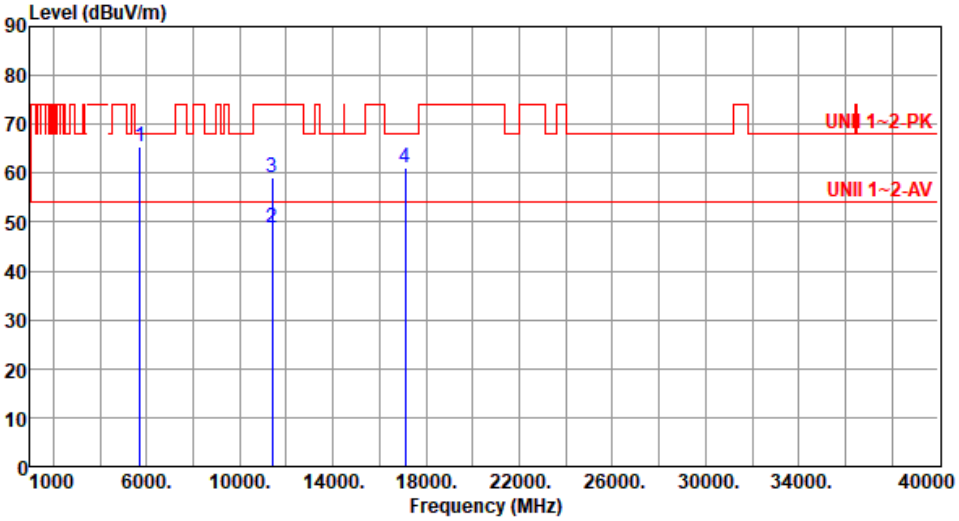


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	61.25	68.20	-6.95	54.66	6.59	Peak	100	193
2	11400.00	46.81	54.00	-7.19	31.66	15.15	Average	228	341
3	11400.00	58.43	74.00	-15.57	43.28	15.15	Peak	228	341
4	17100.00	60.43	68.20	-7.77	42.28	18.15	Peak	100	350

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5700
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):26 Humidity(%):62

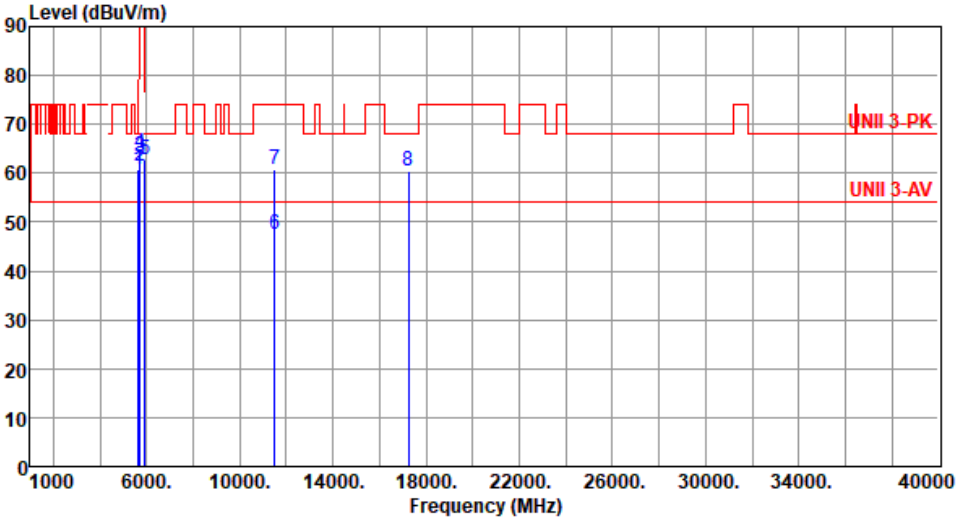


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	65.44	68.20	-2.76	58.85	6.59	Peak	241	333
2	11400.00	48.81	54.00	-5.19	33.66	15.15	Average	285	163
3	11400.00	59.08	74.00	-14.92	43.93	15.15	Peak	285	163
4	17100.00	61.00	68.20	-7.20	42.85	18.15	Peak	100	165

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5745
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

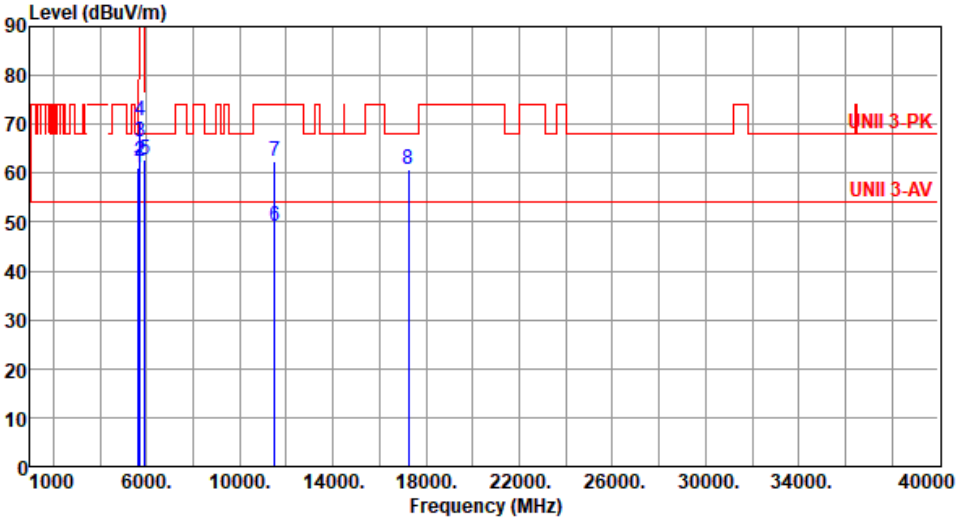


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.76	68.20	-7.44	54.44	6.32	Peak	100	177
2	5700.00	61.41	105.20	-43.79	54.88	6.53	Peak	100	177
3	5720.00	63.43	110.80	-47.37	56.85	6.58	Peak	100	177
4	5725.00	64.25	122.20	-57.95	57.66	6.59	Peak	100	177
5	5925.00	62.78	68.20	-5.42	55.75	7.03	Peak	100	177
6	11490.00	47.42	54.00	-6.58	32.04	15.38	Average	199	322
7	11490.00	60.79	74.00	-13.21	45.41	15.38	Peak	199	322
8	17235.00	60.45	68.20	-7.75	42.19	18.26	Peak	100	324

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5745
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

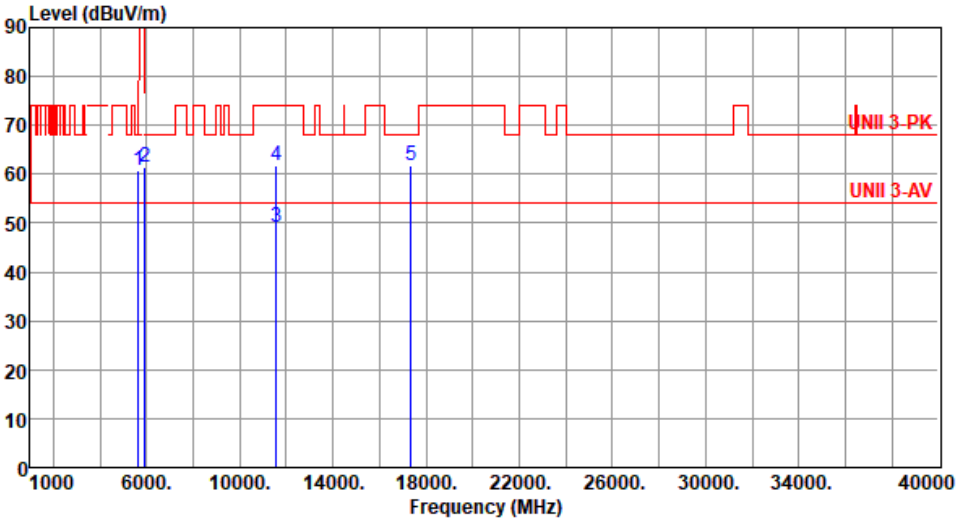


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.98	68.20	-7.22	54.66	6.32	Peak	277	352
2	5700.00	62.38	105.20	-42.82	55.85	6.53	Peak	277	352
3	5720.00	66.57	110.80	-44.23	59.99	6.58	Peak	277	352
4	5725.00	70.58	122.20	-51.62	63.99	6.59	Peak	277	352
5	5925.00	62.91	68.20	-5.29	55.88	7.03	Peak	277	352
6	11490.00	49.24	54.00	-4.76	33.86	15.38	Average	248	166
7	11490.00	62.32	74.00	-11.68	46.94	15.38	Peak	248	166
8	17235.00	60.88	68.20	-7.32	42.62	18.26	Peak	100	155

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5785
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

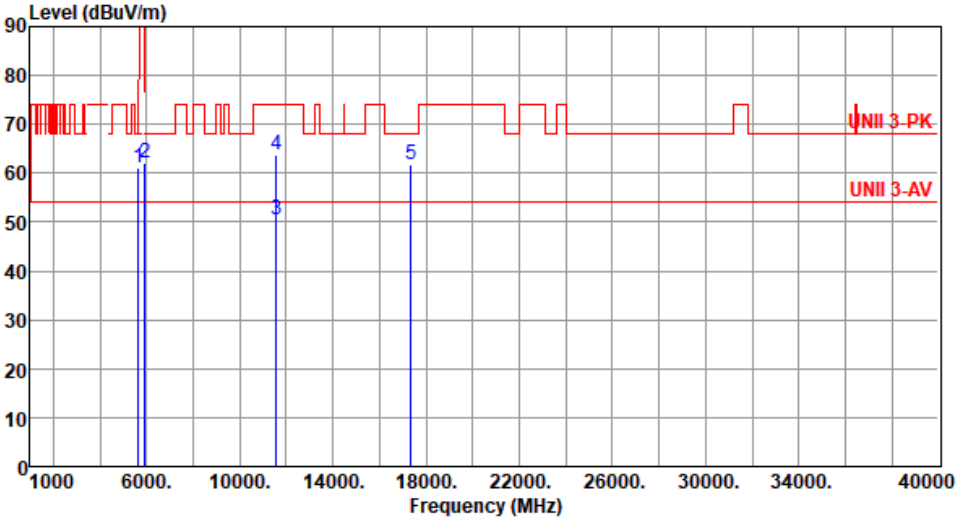


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.79	68.20	-7.41	54.47	6.32	Peak	105	186
2	5925.00	61.53	68.20	-6.67	54.50	7.03	Peak	105	186
3	11570.00	49.05	54.00	-4.95	33.67	15.38	Average	199	325
4	11570.00	61.64	74.00	-12.36	46.26	15.38	Peak	199	325
5	17355.00	61.65	68.20	-6.55	42.67	18.98	Peak	100	333

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5785
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

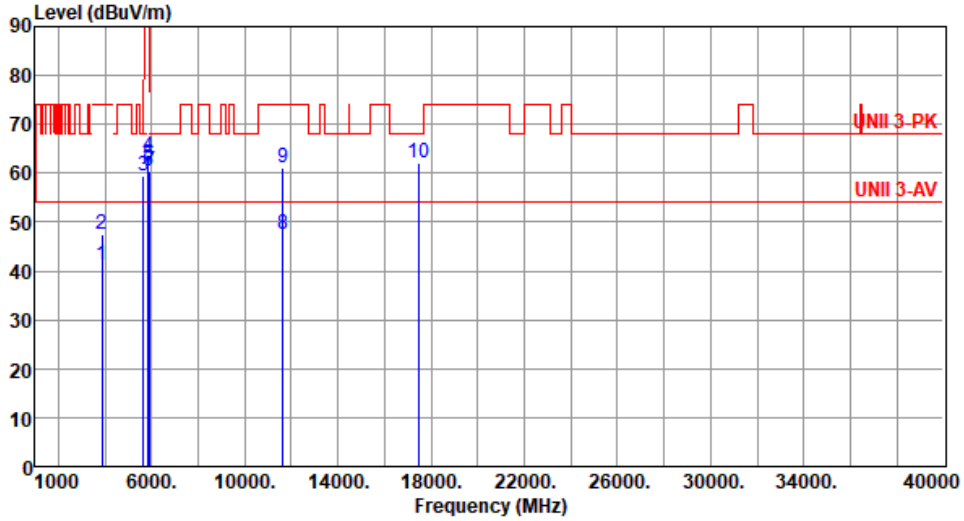


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	61.20	68.20	-7.00	54.88	6.32	Peak	272	352
2	5925.00	61.98	68.20	-6.22	54.95	7.03	Peak	272	352
3	11570.00	50.38	54.00	-3.62	35.00	15.38	Average	245	166
4	11570.00	63.79	74.00	-10.21	48.41	15.38	Peak	245	166
5	17355.00	61.87	68.20	-6.33	42.89	18.98	Peak	100	165

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

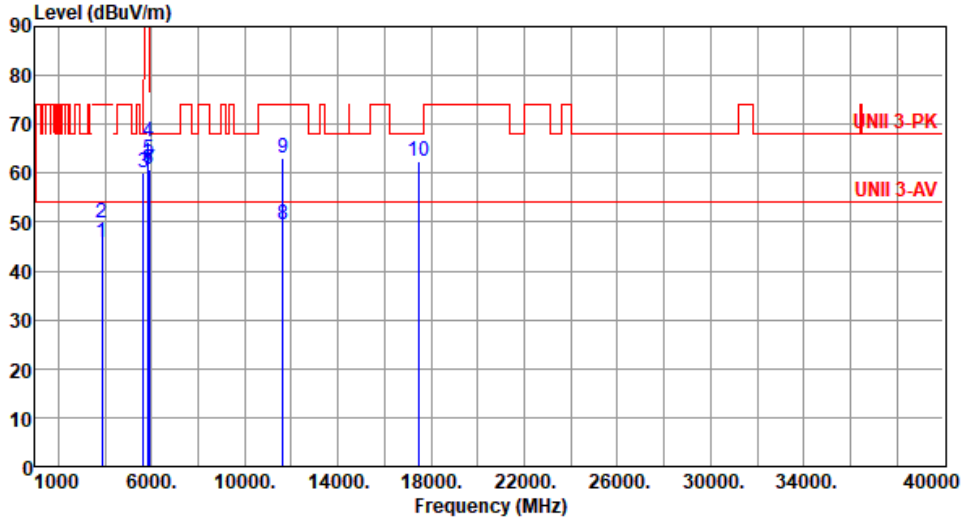


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3883.50	41.26	54.00	-12.74	38.40	2.86	Average	107	156
2	3883.50	47.41	74.00	-26.59	44.55	2.86	Peak	107	156
3	5650.00	59.54	68.20	-8.66	53.22	6.32	Peak	100	180
4	5850.00	63.55	122.20	-58.65	56.78	6.77	Peak	100	180
5	5855.00	61.68	110.80	-49.12	54.88	6.80	Peak	100	180
6	5875.00	60.43	105.20	-44.77	53.55	6.88	Peak	100	180
7	5925.00	60.47	68.20	-7.73	53.44	7.03	Peak	100	180
8	11650.00	47.57	54.00	-6.43	32.40	15.17	Average	201	326
9	11650.00	61.05	74.00	-12.95	45.88	15.17	Peak	201	326
10	17475.00	62.26	68.20	-5.94	42.45	19.81	Peak	100	330

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5825
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

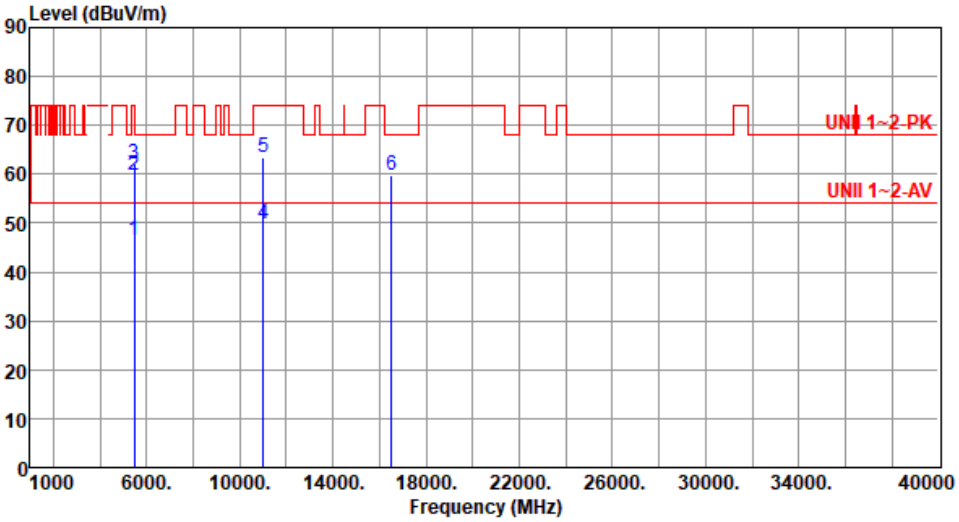


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3883.50	45.72	54.00	-8.28	42.86	2.86	Average	102	51
2	3883.50	49.81	74.00	-24.19	46.95	2.86	Peak	102	51
3	5650.00	59.98	68.20	-8.22	53.66	6.32	Peak	269	355
4	5850.00	66.43	122.20	-55.77	59.66	6.77	Peak	269	355
5	5855.00	62.67	110.80	-48.13	55.87	6.80	Peak	269	355
6	5875.00	60.68	105.20	-44.52	53.80	6.88	Peak	269	355
7	5925.00	60.81	68.20	-7.39	53.78	7.03	Peak	269	355
8	11650.00	49.48	54.00	-4.52	34.31	15.17	Average	240	160
9	11650.00	63.03	74.00	-10.97	47.86	15.17	Peak	240	160
10	17475.00	62.57	68.20	-5.63	42.76	19.81	Peak	100	163

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5500
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):26 Humidity(%):62

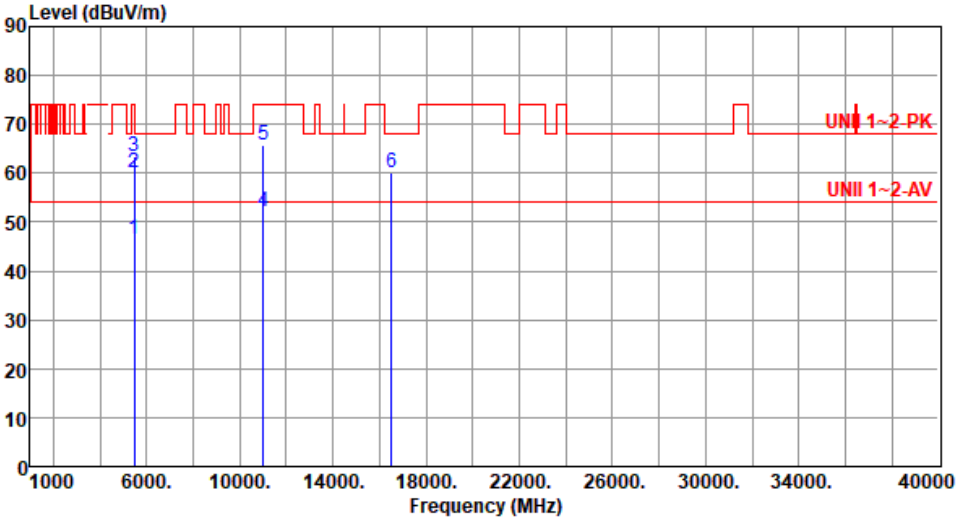


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.44	54.00	-7.56	40.14	6.30	Average	100	177
2	5460.00	59.64	74.00	-14.36	53.34	6.30	Peak	100	177
3	5470.00	62.00	68.20	-6.20	55.68	6.32	Peak	100	177
4	11000.00	49.76	54.00	-4.24	34.11	15.65	Average	225	336
5	11000.00	63.30	74.00	-10.70	47.65	15.65	Peak	225	336
6	16500.00	59.81	68.20	-8.39	42.35	17.46	Peak	100	332

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5500
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):26 Humidity(%):62

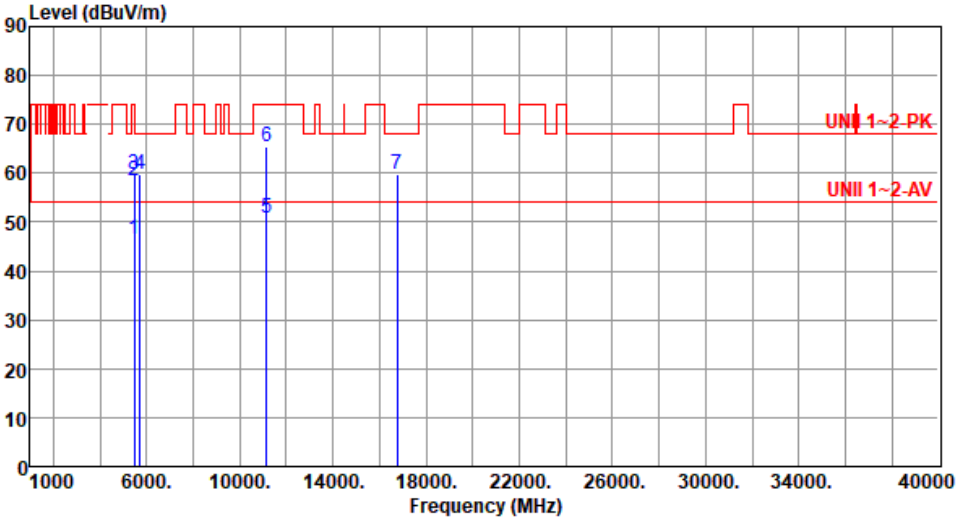


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.64	54.00	-7.36	40.34	6.30	Average	228	305
2	5460.00	60.24	74.00	-13.76	53.94	6.30	Peak	228	305
3	5470.00	63.57	68.20	-4.63	57.25	6.32	Peak	228	305
4	11000.00	52.07	54.00	-1.93	36.42	15.65	Average	275	149
5	11000.00	65.67	74.00	-8.33	50.02	15.65	Peak	275	149
6	16500.00	60.12	68.20	-8.08	42.66	17.46	Peak	100	169

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5580
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):26 Humidity(%):62

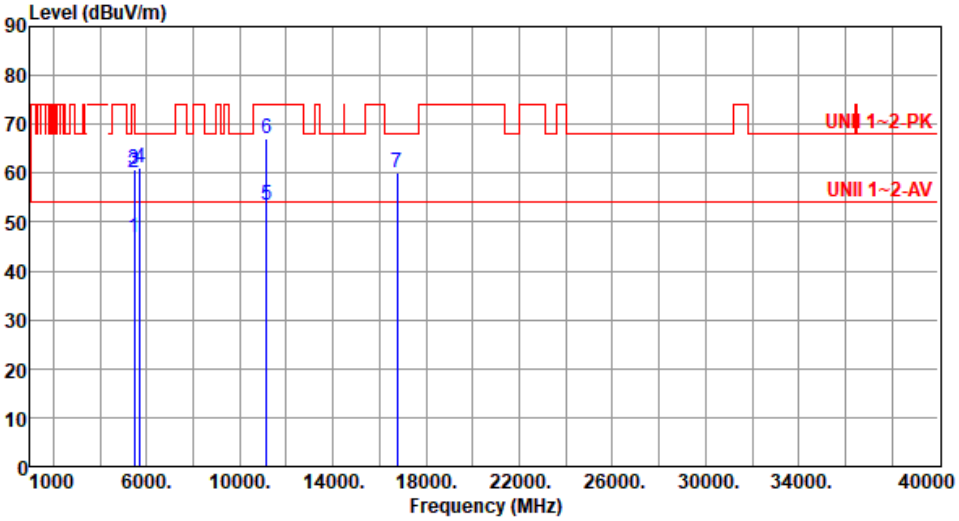


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.44	54.00	-7.56	40.14	6.30	Average	100	179
2	5460.00	58.60	74.00	-15.40	52.30	6.30	Peak	100	179
3	5470.00	59.64	68.20	-8.56	53.32	6.32	Peak	100	179
4	5725.00	59.88	68.20	-8.32	53.29	6.59	Peak	100	177
5	11160.00	50.96	54.00	-3.04	35.81	15.15	Average	195	330
6	11160.00	65.40	74.00	-8.60	50.25	15.15	Peak	195	330
7	16740.00	59.86	68.20	-8.34	42.16	17.70	Peak	100	330

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5580
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):26 Humidity(%):62

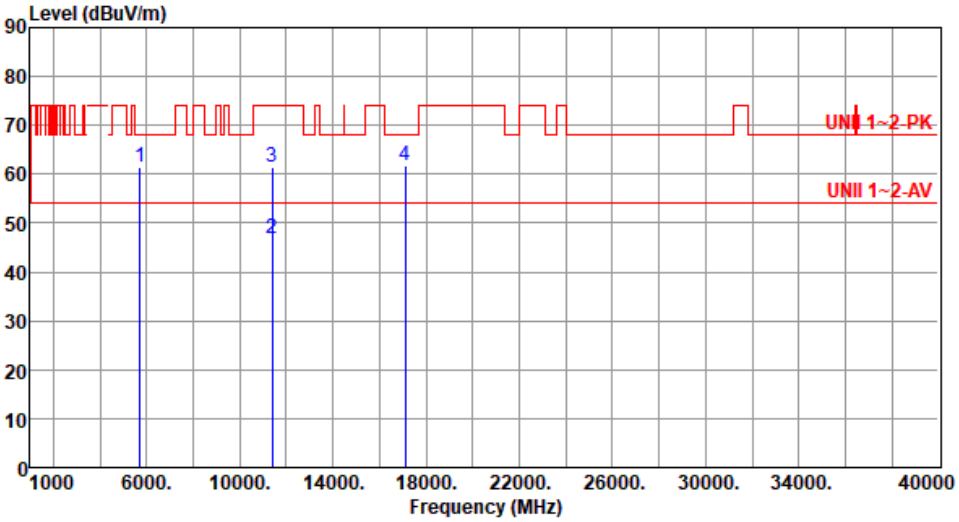


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.94	54.00	-7.06	40.64	6.30	Average	240	308
2	5460.00	60.08	74.00	-13.92	53.78	6.30	Peak	240	308
3	5470.00	60.87	68.20	-7.33	54.55	6.32	Peak	240	308
4	5725.00	61.15	68.20	-7.05	54.56	6.59	Peak	240	308
5	11160.00	53.37	54.00	-0.63	38.22	15.15	Average	198	162
6	11160.00	67.12	74.00	-6.88	51.97	15.15	Peak	198	162
7	16740.00	60.15	68.20	-8.05	42.45	17.70	Peak	100	169

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5700
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

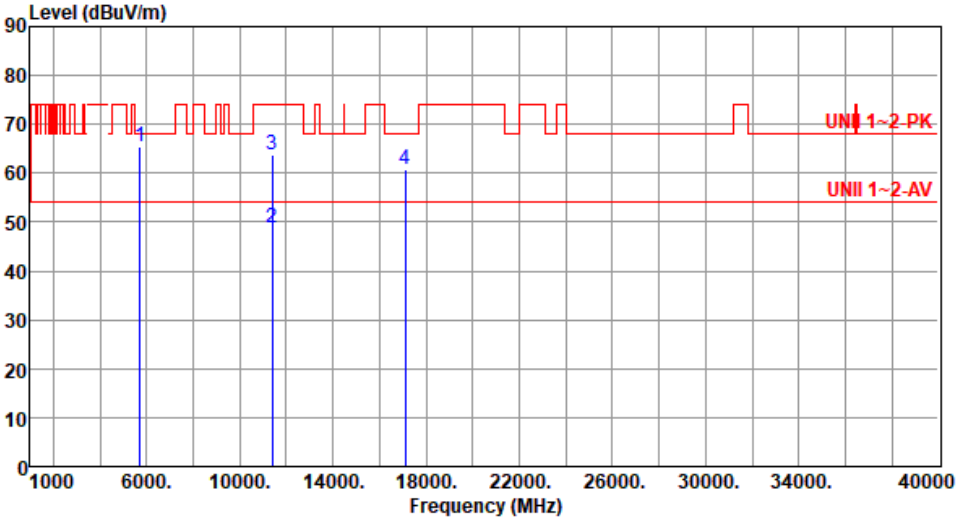


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	61.34	68.20	-6.86	54.75	6.59	Peak	100	188
2	11400.00	46.98	54.00	-7.02	31.83	15.15	Average	134	325
3	11400.00	61.49	74.00	-12.51	46.34	15.15	Peak	134	325
4	17100.00	61.81	68.20	-6.39	43.66	18.15	Peak	100	333

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5700
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

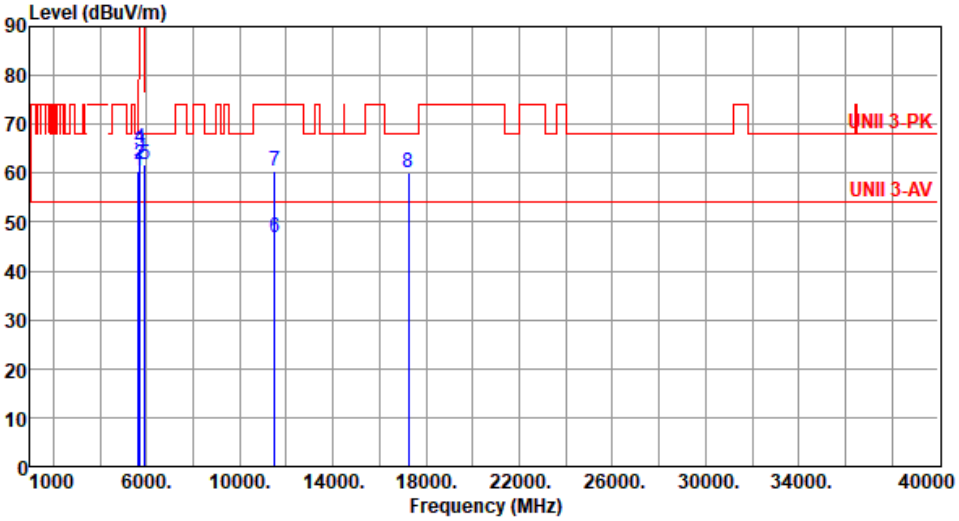


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	65.58	68.20	-2.62	58.99	6.59	Peak	222	354
2	11400.00	48.83	54.00	-5.17	33.68	15.15	Average	237	157
3	11400.00	63.83	74.00	-10.17	48.68	15.15	Peak	237	157
4	17100.00	60.81	68.20	-7.39	42.66	18.15	Peak	222	354

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5745
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

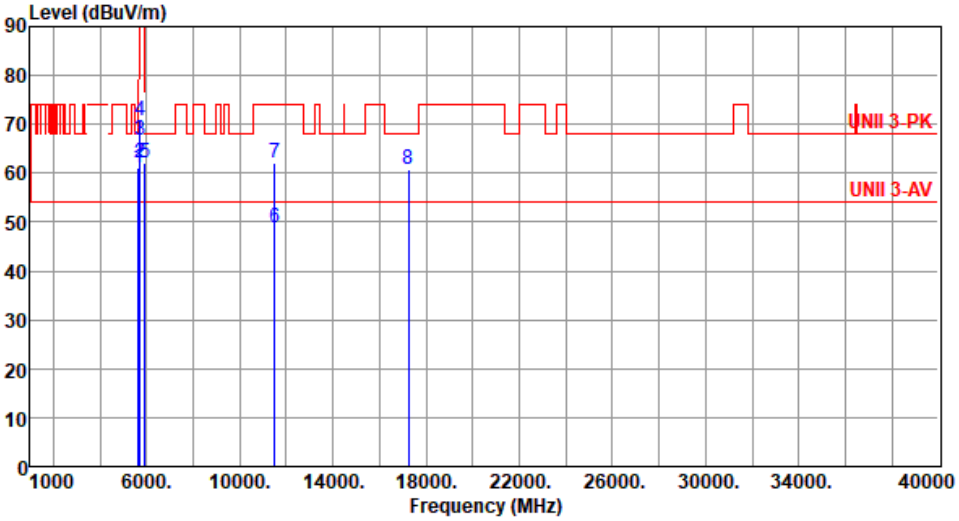


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.58	68.20	-7.62	54.26	6.32	Peak	100	179
2	5700.00	61.65	105.20	-43.55	55.12	6.53	Peak	100	179
3	5720.00	64.49	110.80	-46.31	57.91	6.58	Peak	100	179
4	5725.00	65.24	122.20	-56.96	58.65	6.59	Peak	100	179
5	5925.00	61.71	68.20	-6.49	54.68	7.03	Peak	100	179
6	11490.00	46.86	54.00	-7.14	31.48	15.38	Average	201	315
7	11490.00	60.40	74.00	-13.60	45.02	15.38	Peak	201	315
8	17235.00	60.26	68.20	-7.94	42.00	18.26	Peak	100	326

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5745
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

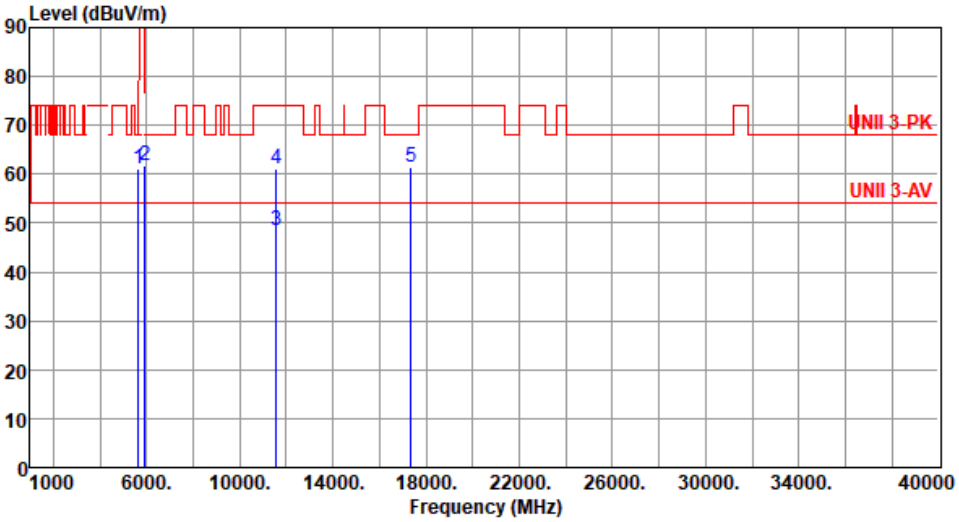


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	61.17	68.20	-7.03	54.85	6.32	Peak	278	349
2	5700.00	62.19	105.20	-43.01	55.66	6.53	Peak	278	349
3	5720.00	66.83	110.80	-43.97	60.25	6.58	Peak	278	349
4	5725.00	70.81	122.20	-51.39	64.22	6.59	Peak	278	349
5	5925.00	61.98	68.20	-6.22	54.95	7.03	Peak	278	349
6	11490.00	48.79	54.00	-5.21	33.41	15.38	Average	240	165
7	11490.00	61.94	74.00	-12.06	46.56	15.38	Peak	240	165
8	17235.00	60.70	68.20	-7.50	42.44	18.26	Peak	100	150

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5785
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

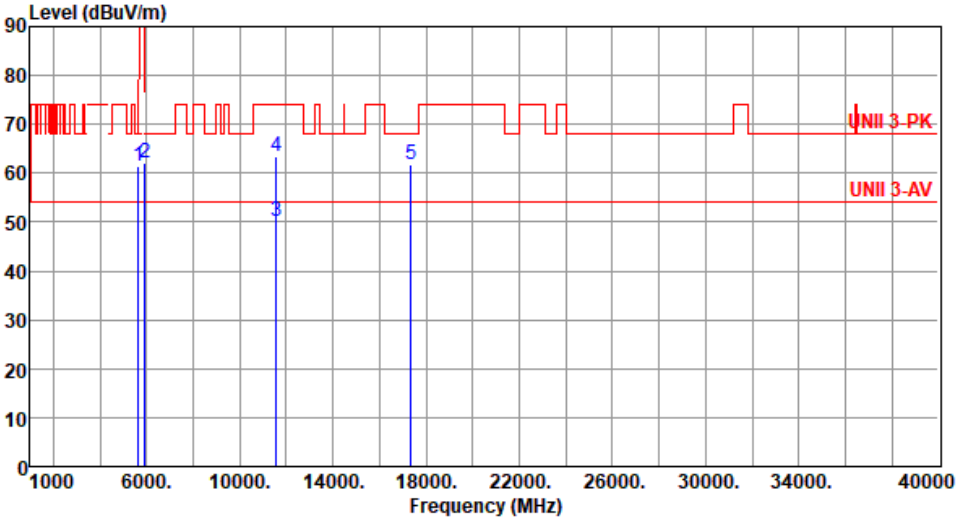


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	61.18	68.20	-7.02	54.86	6.32	Peak	102	188
2	5925.00	61.92	68.20	-6.28	54.89	7.03	Peak	102	188
3	11570.00	48.65	54.00	-5.35	33.27	15.38	Average	195	320
4	11570.00	61.18	74.00	-12.82	45.80	15.38	Peak	195	320
5	17355.00	61.44	68.20	-6.76	42.46	18.98	Peak	100	335

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5785
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

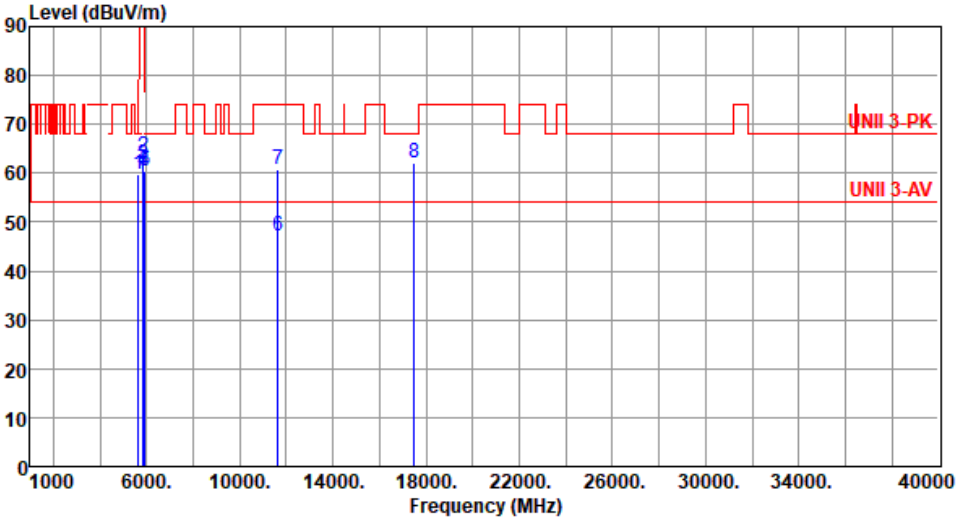


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	61.34	68.20	-6.86	55.02	6.32	Peak	275	352
2	5925.00	62.02	68.20	-6.18	54.99	7.03	Peak	275	352
3	11570.00	50.04	54.00	-3.96	34.66	15.38	Average	244	169
4	11570.00	63.41	74.00	-10.59	48.03	15.38	Peak	244	169
5	17355.00	61.63	68.20	-6.57	42.65	18.98	Peak	100	168

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5825
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

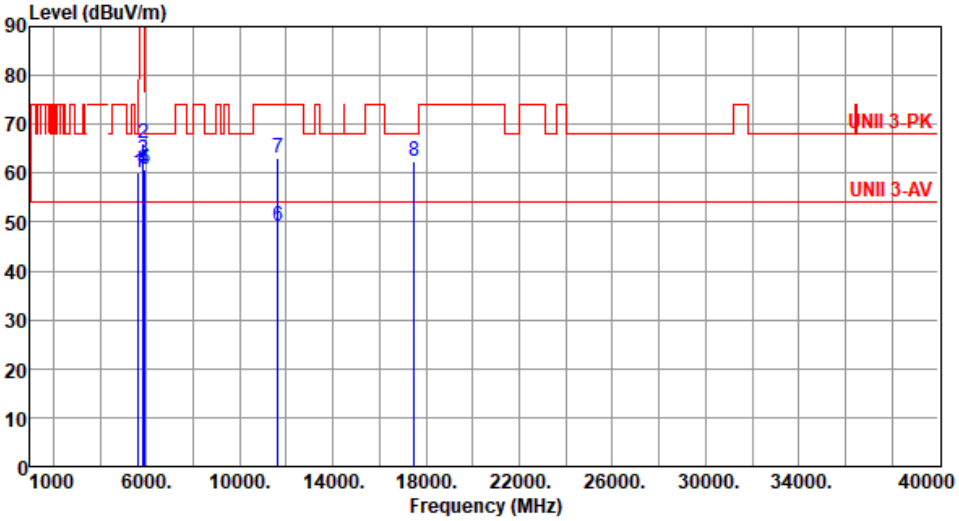


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.77	68.20	-8.43	53.45	6.32	Peak	100	177
2	5850.00	63.31	122.20	-58.89	56.54	6.77	Peak	100	177
3	5855.00	61.92	110.80	-48.88	55.12	6.80	Peak	100	177
4	5875.00	60.53	105.20	-44.67	53.65	6.88	Peak	100	177
5	5925.00	60.58	68.20	-7.62	53.55	7.03	Peak	100	177
6	11650.00	47.19	54.00	-6.81	32.02	15.17	Average	202	322
7	11650.00	60.82	74.00	-13.18	45.65	15.17	Peak	202	322
8	17475.00	61.97	68.20	-6.23	42.16	19.81	Peak	100	333

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	**Test Freq. (MHz)**	5825
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.27	68.20	-7.93	53.95	6.32	Peak	265	345
2	5850.00	66.22	122.20	-55.98	59.45	6.77	Peak	265	345
3	5855.00	62.92	110.80	-47.88	56.12	6.80	Peak	265	345
4	5875.00	60.90	105.20	-44.30	54.02	6.88	Peak	265	345
5	5925.00	60.93	68.20	-7.27	53.90	7.03	Peak	265	345
6	11650.00	49.12	54.00	-4.88	33.95	15.17	Average	236	155
7	11650.00	63.03	74.00	-10.97	47.86	15.17	Peak	236	155
8	17475.00	62.41	68.20	-5.79	42.60	19.81	Peak	100	167

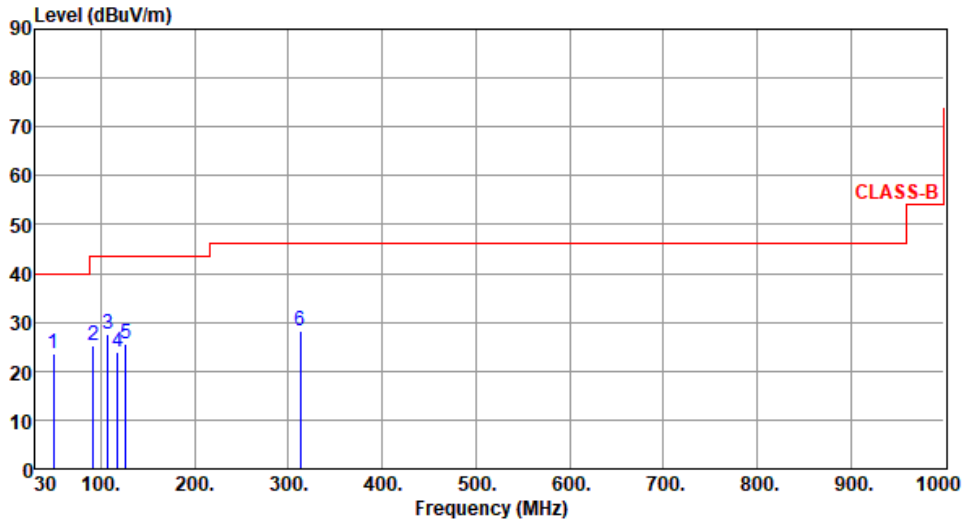
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Configuration 4: Dipole antenna (Antenna No.1) / 5.15 ~ 5.35 GHz

Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	HT20	**Test Freq. (MHz)**	5240
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69

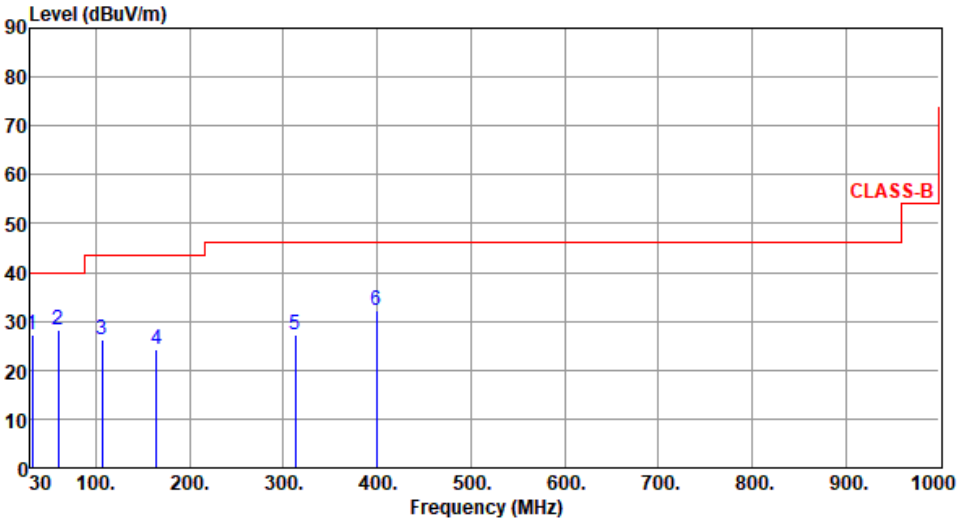


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	49.55	23.55	40.00	-16.45	32.41	-8.86	Peak	---	---
2	91.87	25.33	43.50	-18.17	40.04	-14.71	Peak	---	---
3	107.55	27.67	43.50	-15.83	39.92	-12.25	Peak	---	---
4	117.55	23.93	43.50	-19.57	34.99	-11.06	Peak	---	---
5	126.55	25.71	43.50	-17.79	35.82	-10.11	Peak	---	---
6	312.55	28.33	46.00	-17.67	36.10	-7.77	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT20	**Test Freq. (MHz)**	5240
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):69



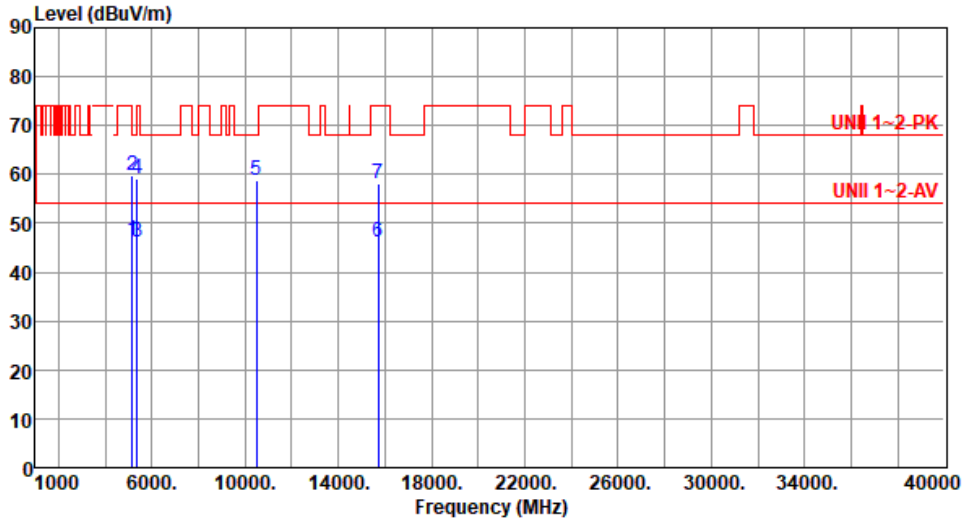
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	31.66	27.14	40.00	-12.86	37.61	-10.47	Peak	---	---
2	59.63	28.11	40.00	-11.89	37.65	-9.54	Peak	---	---
3	106.55	26.33	43.50	-17.17	38.63	-12.30	Peak	---	---
4	164.52	24.11	43.50	-19.39	32.74	-8.63	Peak	---	---
5	312.85	27.18	46.00	-18.82	34.94	-7.76	Peak	---	---
6	399.11	32.06	46.00	-13.94	37.57	-5.51	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	11a	**Test Freq. (MHz)**	5240
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

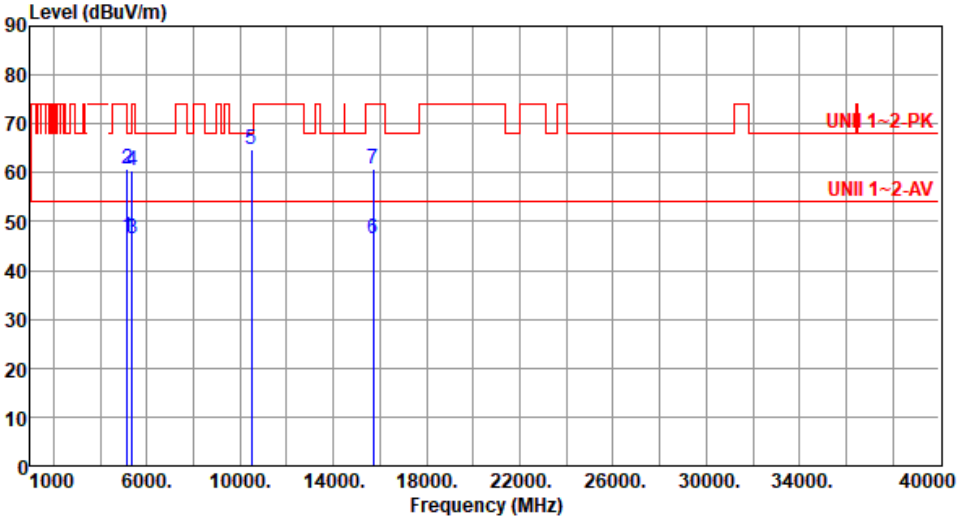


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.53	54.00	-7.47	40.22	6.31	Average	130	35
2	5150.00	59.64	74.00	-14.36	53.33	6.31	Peak	130	35
3	5350.00	46.10	54.00	-7.90	40.38	5.72	Average	130	35
4	5350.00	59.11	74.00	-14.89	53.39	5.72	Peak	130	35
5	10480.00	58.84	68.20	-9.36	44.21	14.63	Peak	143	322
6	15720.00	46.19	54.00	-7.81	30.24	15.95	Average	100	323
7	15720.00	58.23	74.00	-15.77	42.28	15.95	Peak	100	323

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5240
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

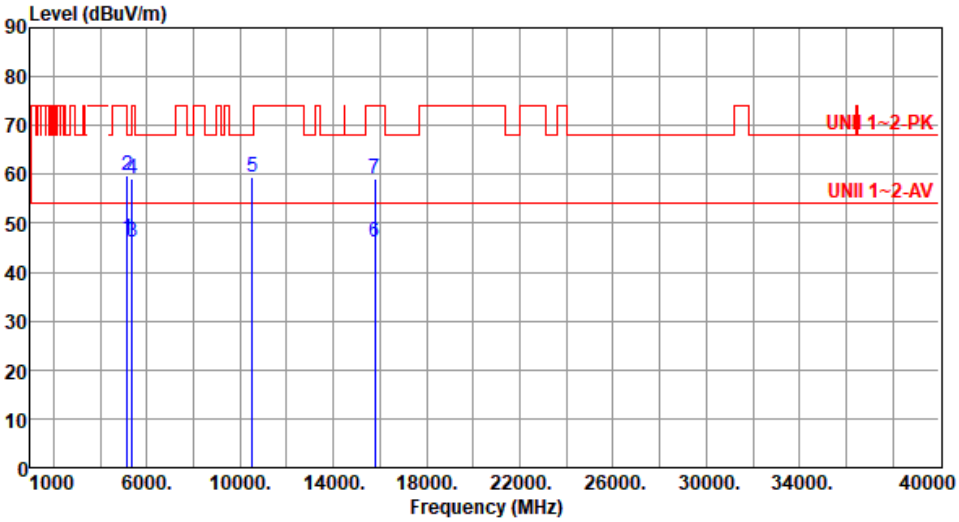


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.94	54.00	-7.06	40.63	6.31	Average	222	311
2	5150.00	60.87	74.00	-13.13	54.56	6.31	Peak	222	311
3	5350.00	46.44	54.00	-7.56	40.72	5.72	Average	222	311
4	5350.00	60.49	74.00	-13.51	54.77	5.72	Peak	222	311
5	10480.00	64.60	68.20	-3.60	49.97	14.63	Peak	182	183
6	15720.00	46.61	54.00	-7.39	30.66	15.95	Average	100	190
7	15720.00	60.75	74.00	-13.25	44.80	15.95	Peak	100	190

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5260
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

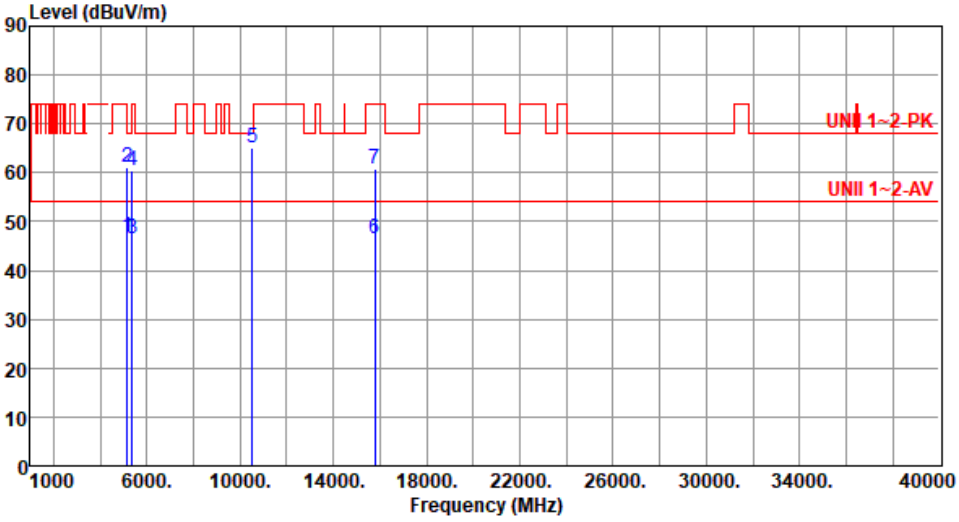


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.75	54.00	-7.25	40.44	6.31	Average	129	33
2	5150.00	59.94	74.00	-14.06	53.63	6.31	Peak	129	33
3	5350.00	46.13	54.00	-7.87	40.41	5.72	Average	129	33
4	5350.00	59.17	74.00	-14.83	53.45	5.72	Peak	129	33
5	10520.00	59.55	68.20	-8.65	44.88	14.67	Peak	139	315
6	15780.00	46.19	54.00	-7.81	30.33	15.86	Average	100	320
7	15780.00	59.18	74.00	-14.82	43.32	15.86	Peak	100	320

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5260
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):67

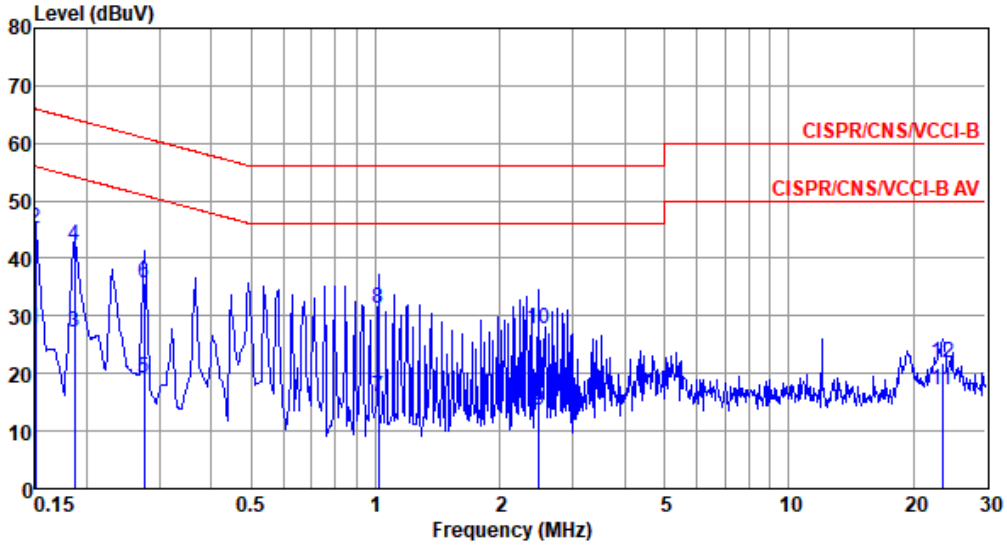


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.97	54.00	-7.03	40.66	6.31	Average	214	315
2	5150.00	61.18	74.00	-12.82	54.87	6.31	Peak	214	315
3	5350.00	46.46	54.00	-7.54	40.74	5.72	Average	214	315
4	5350.00	60.50	74.00	-13.50	54.78	5.72	Peak	214	315
5	10520.00	65.00	68.20	-3.20	50.33	14.67	Peak	177	179
6	15780.00	46.62	54.00	-7.38	30.76	15.86	Average	100	188
7	15780.00	60.73	74.00	-13.27	44.87	15.86	Peak	100	188

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	**Test Freq. (MHz)**	5580
Power Phase	Line		

Test by : Alex Tsai Temperature: 23°C Humidity: 61%

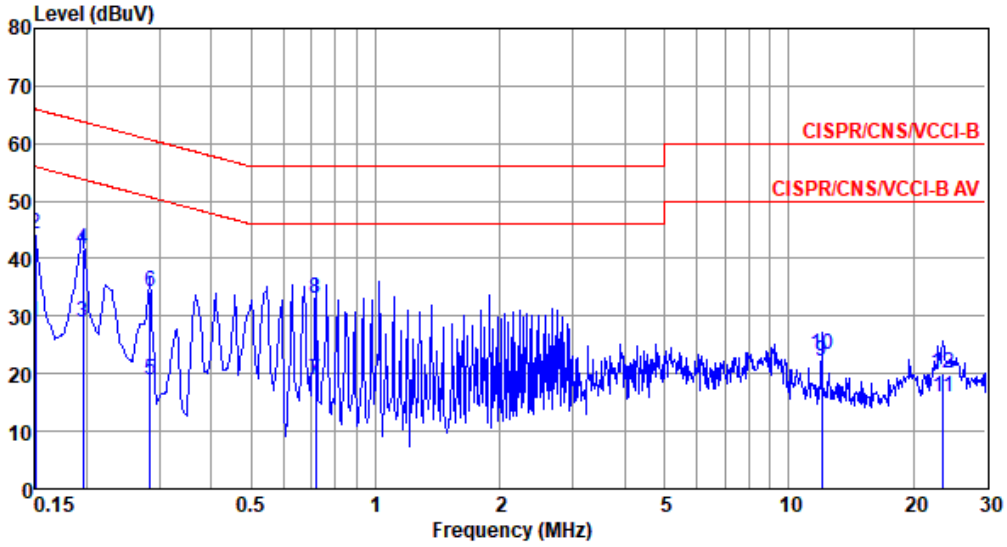


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.150	27.84	56.00	-28.16	17.96	9.60	0.08	0.20	Average
2*	0.150	45.30	66.00	-20.70	35.42	9.60	0.08	0.20	QP
3	0.186	27.13	54.20	-27.07	17.23	9.61	0.08	0.21	Average
4	0.186	42.11	64.20	-22.09	32.21	9.61	0.08	0.21	QP
5	0.276	19.23	50.94	-31.71	9.26	9.61	0.08	0.28	Average
6	0.276	35.84	60.94	-25.10	25.87	9.61	0.08	0.28	QP
7	1.016	15.96	46.00	-30.04	5.82	9.61	0.16	0.37	Average
8	1.016	31.43	56.00	-24.57	21.29	9.61	0.16	0.37	QP
9	2.487	13.70	46.00	-32.30	3.48	9.62	0.20	0.40	Average
10	2.487	27.63	56.00	-28.37	17.41	9.62	0.20	0.40	QP
11	23.511	17.01	50.00	-32.99	6.13	9.53	0.68	0.67	Average
12	23.511	21.80	60.00	-38.20	10.92	9.53	0.68	0.67	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	11a	**Test Freq. (MHz)**	5580
Power Phase	Neutral		

Test by : Alex Tsai Temperature: 23°C Humidity: 61%

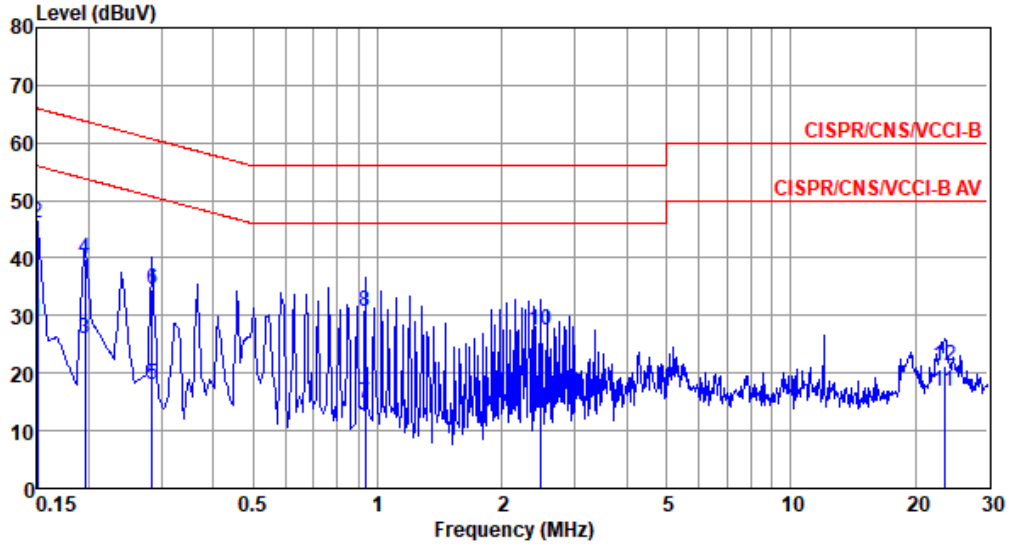


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.150	28.96	56.00	-27.04	19.13	9.59	0.08	0.16	Average
2*	0.150	44.39	66.00	-21.61	34.56	9.59	0.08	0.16	QP
3	0.195	28.90	53.80	-24.90	19.05	9.59	0.08	0.18	Average
4	0.195	41.72	63.80	-22.08	31.87	9.59	0.08	0.18	QP
5	0.285	18.86	50.68	-31.82	9.01	9.58	0.08	0.19	Average
6	0.285	34.24	60.68	-26.44	24.39	9.58	0.08	0.19	QP
7	0.716	18.92	46.00	-27.08	8.95	9.59	0.13	0.25	Average
8	0.716	32.97	56.00	-23.03	23.00	9.59	0.13	0.25	QP
9	11.996	22.16	50.00	-27.84	11.58	9.66	0.50	0.42	Average
10	11.996	23.42	60.00	-36.58	12.84	9.66	0.50	0.42	QP
11	23.636	15.81	50.00	-34.19	4.97	9.66	0.68	0.50	Average
12	23.636	20.10	60.00	-39.90	9.26	9.66	0.68	0.50	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	11a	**Test Freq. (MHz)**	5785
Power Phase	Line		

Test by : Alex Tsai Temperature: 23°C Humidity: 61%

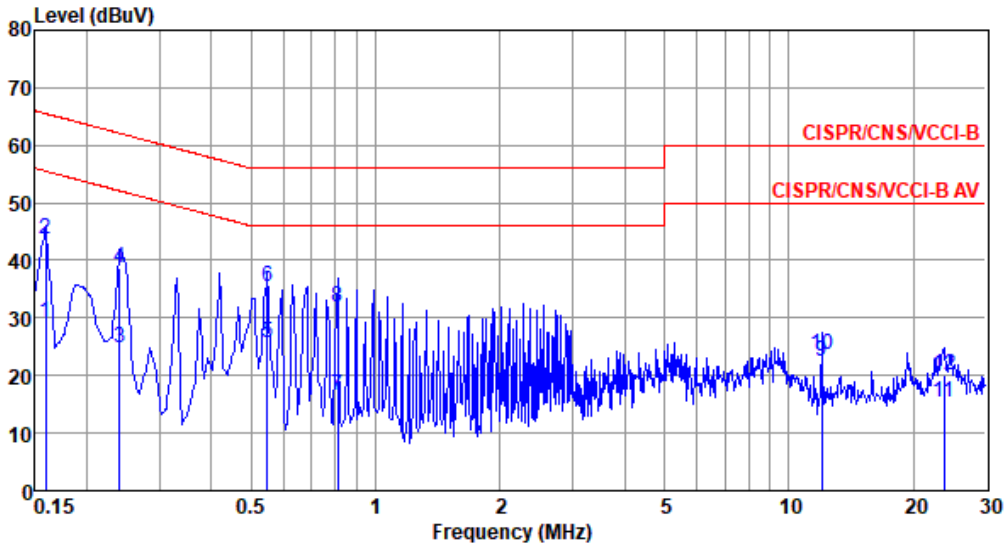


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.150	29.13	56.00	-26.87	19.25	9.60	0.08	0.20	Average
2*	0.150	45.95	66.00	-20.05	36.07	9.60	0.08	0.20	QP
3	0.195	26.09	53.80	-27.71	16.18	9.61	0.08	0.22	Average
4	0.195	39.76	63.80	-24.04	29.85	9.61	0.08	0.22	QP
5	0.285	17.99	50.68	-32.69	8.02	9.60	0.08	0.29	Average
6	0.285	34.66	60.68	-26.02	24.69	9.60	0.08	0.29	QP
7	0.933	14.89	46.00	-31.11	4.76	9.61	0.15	0.37	Average
8	0.933	30.78	56.00	-25.22	20.65	9.61	0.15	0.37	QP
9	2.487	13.72	46.00	-32.28	3.50	9.62	0.20	0.40	Average
10	2.487	27.46	56.00	-28.54	17.24	9.62	0.20	0.40	QP
11	23.511	16.83	50.00	-33.17	5.95	9.53	0.68	0.67	Average
12	23.511	21.31	60.00	-38.69	10.43	9.53	0.68	0.67	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	11a	**Test Freq. (MHz)**	5785
Power Phase	Neutral		

Test by : Alex Tsai Temperature: 23°C Humidity: 61%



	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.159	29.08	55.52	-26.44	19.25	9.59	0.08	0.16	Average
2	0.159	43.74	65.52	-21.78	33.91	9.59	0.08	0.16	QP
3	0.240	24.66	52.08	-27.42	14.81	9.59	0.08	0.18	Average
4	0.240	38.67	62.08	-23.41	28.82	9.59	0.08	0.18	QP
5*	0.546	25.81	46.00	-20.19	15.90	9.58	0.11	0.22	Average
6	0.546	35.53	56.00	-20.47	25.62	9.58	0.11	0.22	QP
7	0.809	16.39	46.00	-29.61	6.40	9.59	0.14	0.26	Average
8	0.809	31.76	56.00	-24.24	21.77	9.59	0.14	0.26	QP
9	11.996	22.35	50.00	-27.65	11.77	9.66	0.50	0.42	Average
10	11.996	23.73	60.00	-36.27	13.15	9.66	0.50	0.42	QP
11	23.762	15.36	50.00	-34.64	4.52	9.66	0.68	0.50	Average
12	23.762	20.00	60.00	-40.00	9.16	9.66	0.68	0.50	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).