FCC Test Report

FCC ID	:	**NKR-DHURAZ53**
Equipment	:	**11a/b/g/n/ac 1x1 module**
Model No.	:	**DHUR-AZ53**
Brand Name	:	**Amazon**
Applicant	:	**Wistron NeWeb Corporation**
Address	:	**20 Park Avenue II, Hsinchu Science Park, Hsinchu 308,Taiwan,R.O.C.**
Standard	:	**47 CFR FCC Part 15.247**
Received Date	:	**Dec. 16, 2021**
Tested Date	:	**Jan. 18 ~ Feb. 16, 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
FR1D1601AC	Rev. 01	Initial issue	Mar. 21, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.555MHz 31.71 (Margin -14.29dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2390.00MHz 52.99 (Margin -1.01dB) - AV	Pass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: 25.95	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	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

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**
2400-2483.5	b	2412-2462	1-11 [11]	1	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	1	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1	MCS 0-7
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	1	MCS 0-7
Note 1: RF output power specifies that Maximum Peak Conducted Output Power. Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation. Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.					

1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Gain (dBi)	Connector	Remark
1	WNC	WF1_ANT	PIFA	3.16	NA	onboard
2	WNC	81.EK615.GAA	PIFA	2.26	IPEX	---
3	WNC	81.EK615.GAF	PIFA	3.09	IPEX	---

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from host

1.1.4 Accessories

N/A

1.1.5 Channel List

Frequency band (MHz)		2400~2483.5	
802.11 b / g / n HT20		802.11n HT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	10	2457
9	2452	11	2462
10	2457	---	---
11	2462	---	---
12	2467	---	---
13	2472	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	QA Tool, Version: V0.02.6		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11b	100.00%	0.00
	11g	98.46%	0.07
	HT20	98.34%	0.07
	HT40	95.58%	0.20

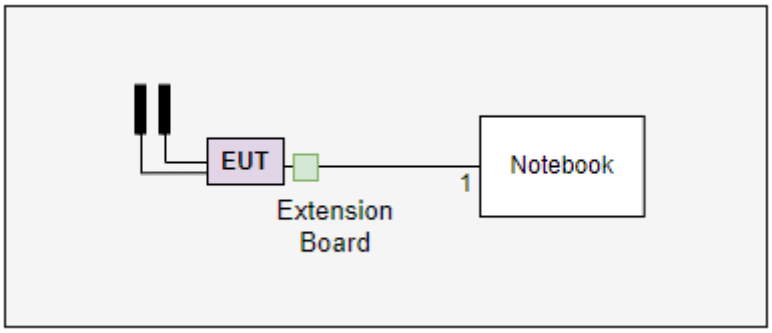
1.1.7 Power Index of Test Tool

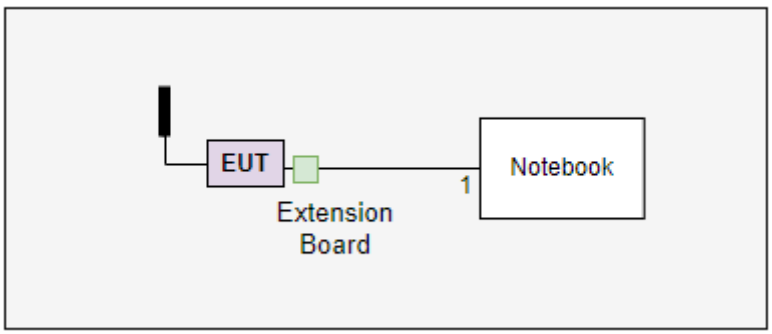
Modulation Mode	Test Frequency (MHz)	Power Index
11b	2412	23
11b	2437	23
11b	2462	23
11b	2467	1F
11b	2472	18
11g	2412	22
11g	2437	23
11g	2462	21
11g	2467	1A
11g	2472	16
HT20	2412	22
HT20	2437	23
HT20	2462	21
HT20	2467	19
HT20	2472	13
HT40	2422	21
HT40	2437	22
HT40	2452	20
HT40	2457	18
HT40	2462	12

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Notebook	DELL	Latitude E5470	---	---
2	USB Cable	ICC	extension	---	
3	Extension Board	---	---	---	Provided by applicant.

1.3 Test Setup Chart

Test Setup Diagram (Wi-Fi: External antenna + Bluetooth: External antenna)	
	
No.	**Signal cable / Length (m)**
1	USB, 1m shielded.

Test Setup Diagram (Wi-Fi: Onboard antenna + Bluetooth: External antenna)	
	
No.	**Signal cable / Length (m)**
1	USB, 1m shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Feb. 15, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
LISN	R&S	ENV216	101579	Mar. 17, 2021	Mar. 16, 2022
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127477	Feb .25, 2021	Feb .24, 2022
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 chamber1 / (03CH01-WS)				
Tested Date	Jan. 18 ~ Jan. 27, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2021	Nov. 03, 2022
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 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 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-NW-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 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	Feb. 16, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
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
Measurement Software	Sporton	SENSE-15247_DTS	V5.10	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.247
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

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**
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.41 dB
Radiated emission > 1GHz	±4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-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.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	11g	2437	6 Mbps	2
Radiated Emissions ≤1GHz	11g	2437	6 Mbps	1, 2
Radiated Emissions >1GHz	11b 11g HT20 HT40	2412 / 2437 / 2462 / 2467 / 2472 2412 / 2437 / 2462 / 2467 / 2472 2412 / 2437 / 2462 / 2467 / 2472 2422 / 2437 / 2452 / 2457 / 2462	1 Mbps 6 Mbps MCS 0 MCS 0	1, 2
Maximum Output Power 6dB bandwidth Power spectral density	11b 11g HT20 HT40	2412 / 2437 / 2462 / 2467 / 2472 2412 / 2437 / 2462 / 2467 / 2472 2412 / 2437 / 2462 / 2467 / 2472 2422 / 2437 / 2452 / 2457 / 2462	1 Mbps 6 Mbps MCS 0 MCS 0	1

NOTE:
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.
2. The EUT had been tested by following test configurations.
   Test Configuration 1: WiFi external antenna (model: 81.EK615.GAF) + BT external antenna (model: 81.EK615.GAV)
   Test Configuration 2: WiFi onboard (model: WF1_ANT) + BT external antenna (model: 81.EK615.GAV)

3 Transmitter Test Results

3.1 Conducted Emissions

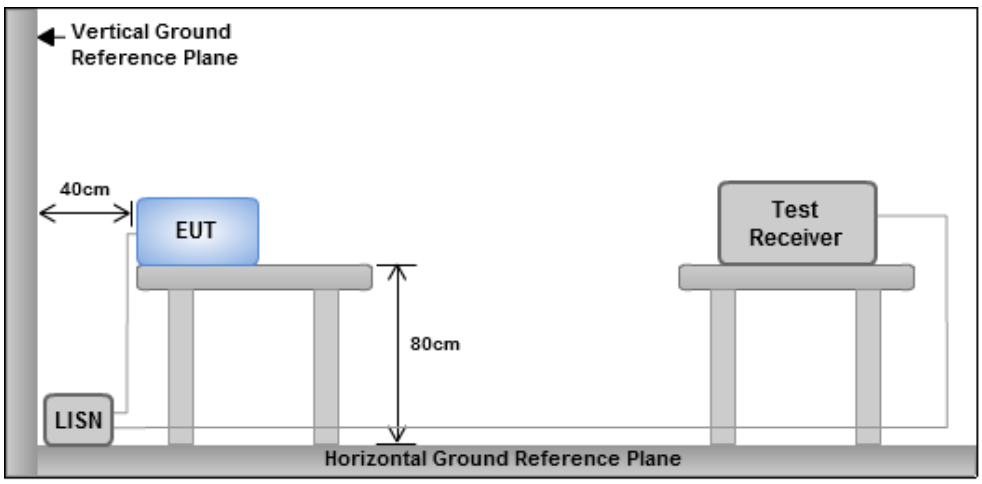
3.1.1 Limit of Conducted Emissions

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.		

3.1.2 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.

3.1.3 Test Setup



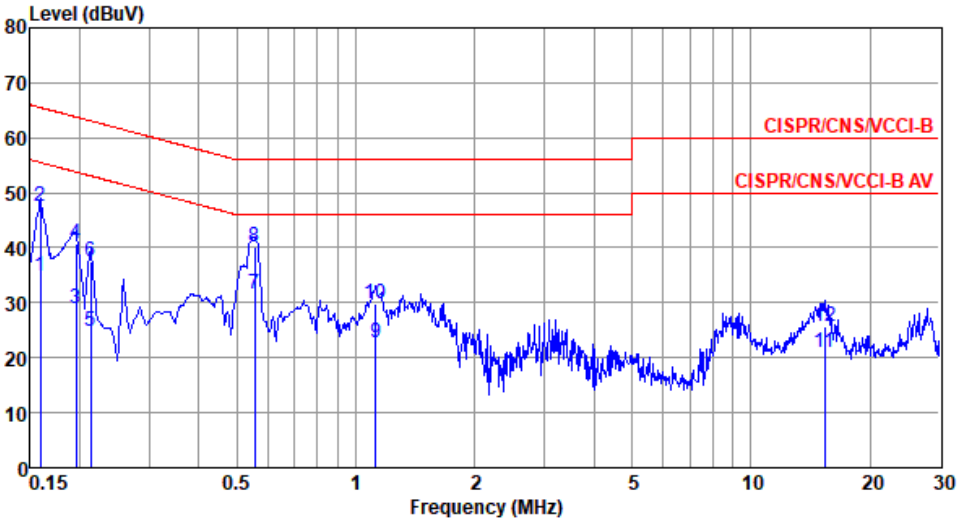
Note: 1. Support units were connected to second LISN.

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

3.1.4 Test Result of Conducted Emissions

Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line		

Test by : Joe Liao Temperature: 16°C Humidity: 60%

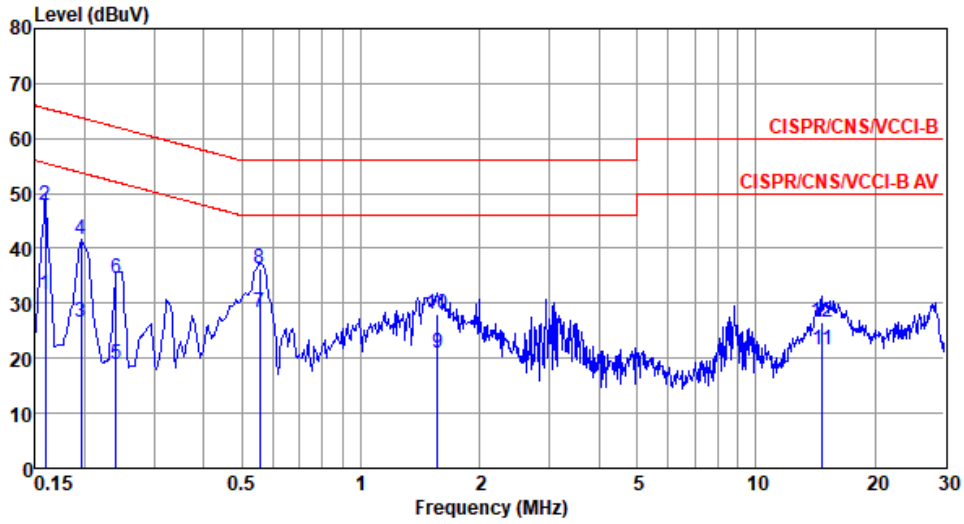


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuA	dBuA	dB	dBuA	dB	dB	dB	
1	0.159	34.85	55.52	-20.67	25.11	9.66	0.08	0.00	Average
2	0.159	47.46	65.52	-18.06	37.72	9.66	0.08	0.00	QP
3	0.195	28.85	53.80	-24.95	19.12	9.65	0.08	0.00	Average
4	0.195	40.75	63.80	-23.05	31.02	9.65	0.08	0.00	QP
5	0.213	24.87	53.10	-28.23	15.14	9.65	0.08	0.00	Average
6	0.213	37.50	63.10	-25.60	27.77	9.65	0.08	0.00	QP
7*	0.555	31.71	46.00	-14.29	21.96	9.64	0.11	0.00	Average
8	0.555	40.15	56.00	-15.85	30.40	9.64	0.11	0.00	QP
9	1.123	22.81	46.00	-23.19	12.99	9.65	0.17	0.00	Average
10	1.123	29.80	56.00	-26.20	19.98	9.65	0.17	0.00	QP
11	15.388	21.05	50.00	-28.95	10.79	9.69	0.57	0.00	Average
12	15.388	25.81	60.00	-34.19	15.55	9.69	0.57	0.00	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	11g	Test Freq. (MHz)	2437
Power Phase	Neutral		

Test by : Joe Liao Temperature: 16°C Humidity: 60%



	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuA	dBuA	dB	dBuA	dB	dB	dB	
1	0.159	31.61	55.52	-23.91	21.84	9.69	0.08	0.00	Average
2	0.159	47.79	65.52	-17.73	38.02	9.69	0.08	0.00	QP
3	0.195	26.65	53.80	-27.15	16.89	9.68	0.08	0.00	Average
4	0.195	41.72	63.80	-22.08	31.96	9.68	0.08	0.00	QP
5	0.240	18.75	52.08	-33.33	8.99	9.68	0.08	0.00	Average
6	0.240	34.43	62.08	-27.65	24.67	9.68	0.08	0.00	QP
7*	0.555	28.48	46.00	-17.52	18.70	9.67	0.11	0.00	Average
8	0.555	36.39	56.00	-19.61	26.61	9.67	0.11	0.00	QP
9	1.560	20.82	46.00	-25.18	10.94	9.69	0.19	0.00	Average
10	1.560	28.04	56.00	-27.96	18.16	9.69	0.19	0.00	QP
11	14.750	21.56	50.00	-28.44	11.21	9.80	0.55	0.00	Average
12	14.750	26.44	60.00	-33.56	16.09	9.80	0.55	0.00	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).

3.2 6dB and Occupied Bandwidth

3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.2.2 Test Procedures

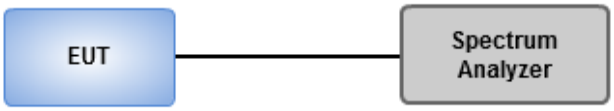
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Sample, Trace mode = max hold.
3 Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.2.3 Test Setup



3.2.4 Test Result of 6dB and Occupied Bandwidth

Ambient Condition	21°C / 66%	Tested By	Aska Huang

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	9.058M	13.531M	13M5G1D	8.043M	13.242M
802.11g_Nss1,(6Mbps)_1TX	16.304M	16.425M	16M4D1D	15M	16.425M
802.11n HT20_Nss1,(MCS0)_1TX	16.594M	17.583M	17M6D1D	14.42M	17.583M
802.11n HT40_Nss1,(MCS0)_1TX	35.072M	36.035M	36M0D1D	31.449M	35.745M

Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

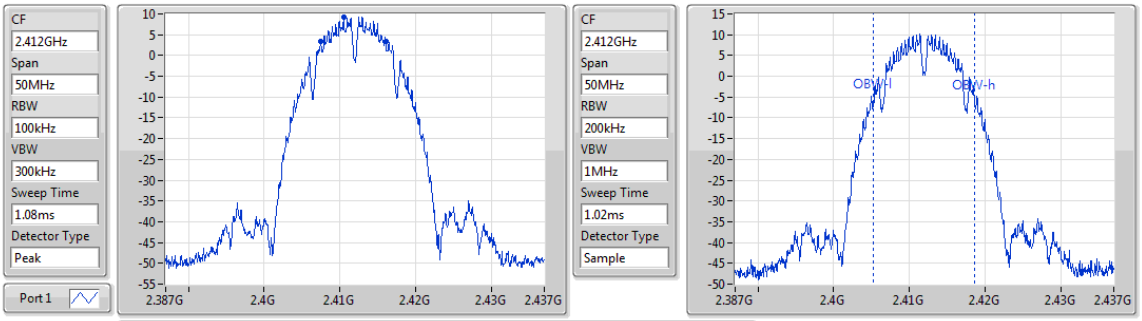
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	8.623M	13.459M
2437MHz	Pass	500k	8.551M	13.386M
2462MHz	Pass	500k	8.043M	13.531M
2467MHz	Pass	500k	9.058M	13.459M
2472MHz	Pass	500k	8.043M	13.242M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.304M	16.425M
2437MHz	Pass	500k	15.072M	16.425M
2462MHz	Pass	500k	16.304M	16.425M
2467MHz	Pass	500k	15M	16.425M
2472MHz	Pass	500k	15.072M	16.425M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	16.304M	17.583M
2437MHz	Pass	500k	14.42M	17.583M
2462MHz	Pass	500k	16.594M	17.583M
2467MHz	Pass	500k	15.652M	17.583M
2472MHz	Pass	500k	16.304M	17.583M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	32.609M	36.035M
2437MHz	Pass	500k	31.449M	36.035M
2452MHz	Pass	500k	33.913M	36.035M
2457MHz	Pass	500k	31.449M	35.89M
2462MHz	Pass	500k	35.072M	35.745M

Port X-N dB = Port **X** 6dB down bandwidth; **Port X-OBW** = Port **X** 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_1TX **EBW**

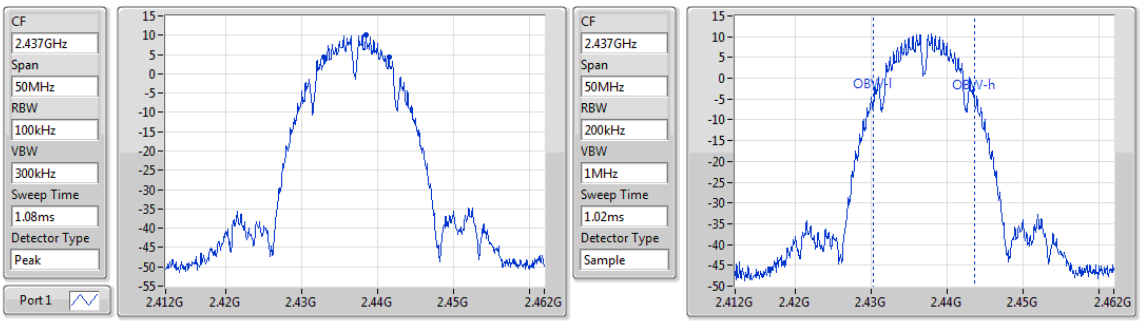
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.623M	2.407435G	2.416058G	13.459M	2.405198G	2.418657G	500k	1

802.11b_Nss1,(1Mbps)_1TX **EBW**

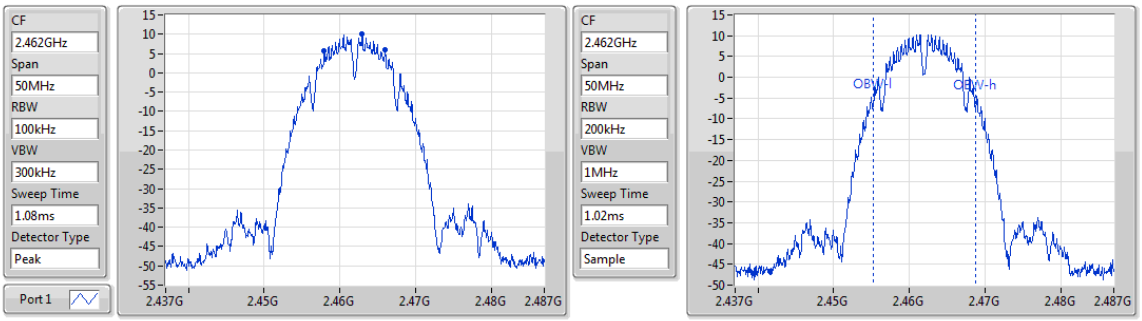
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.551M	2.432942G	2.441493G	13.386M	2.430271G	2.443657G	500k	1

802.11b_Nss1,(1Mbps)_1TX **EBW**

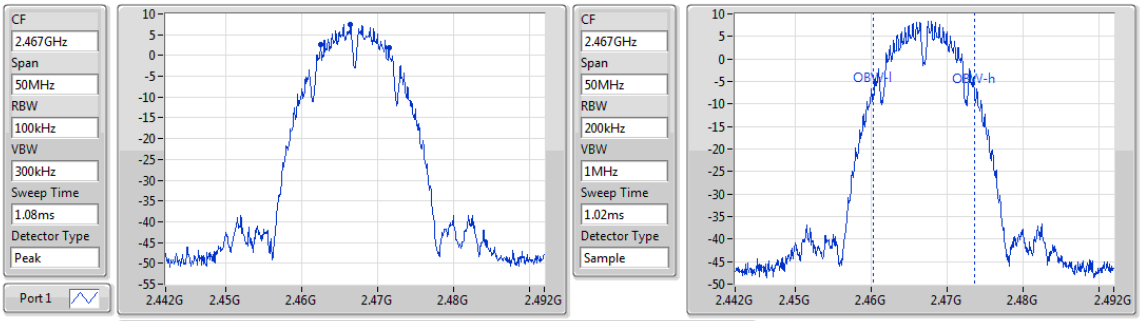
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.043M	2.457942G	2.465986G	13.531M	2.455198G	2.468729G	500k	1

802.11b_Nss1,(1Mbps)_1TX **EBW**

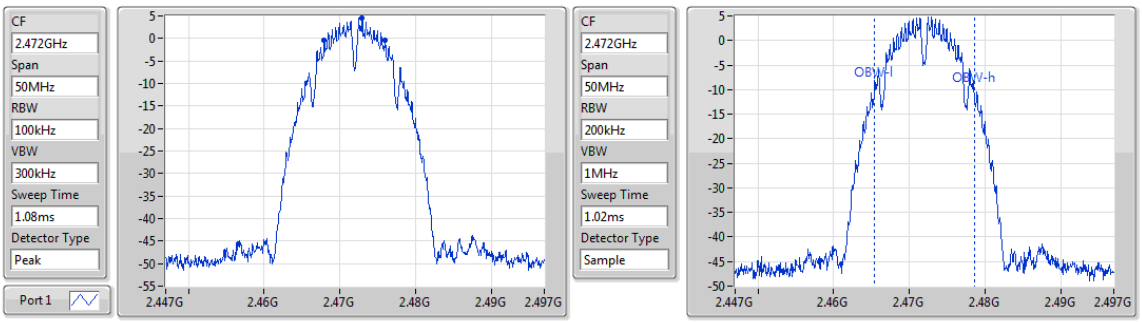
2467MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
9.058M	2.462435G	2.471493G	13.459M	2.460198G	2.473657G	500k	1

802.11b_Nss1,(1Mbps)_1TX **EBW**

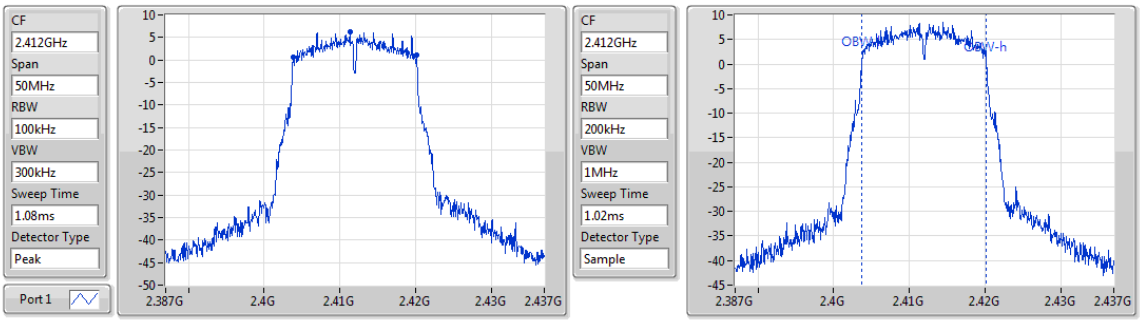
2472MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.043M	2.467942G	2.475986G	13.242M	2.465343G	2.478585G	500k	1

802.11g_Nss1,(6Mbps)_1TX **EBW**

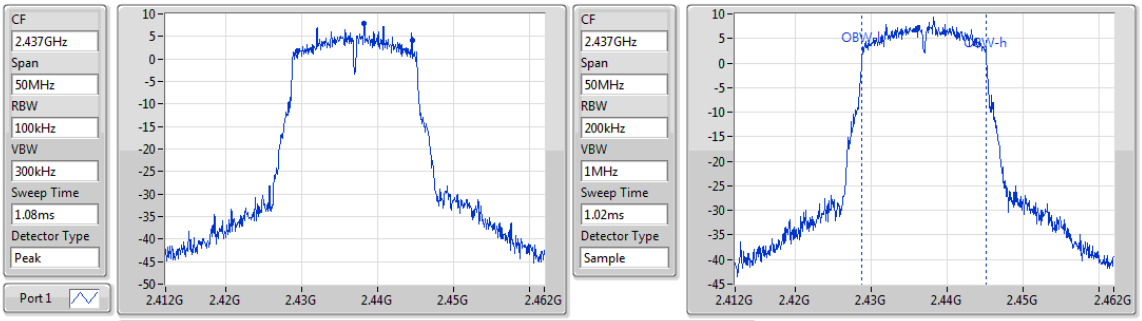
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.304M	2.403812G	2.420116G	16.425M	2.403751G	2.420177G	500k	1

802.11g_Nss1,(6Mbps)_1TX **EBW**

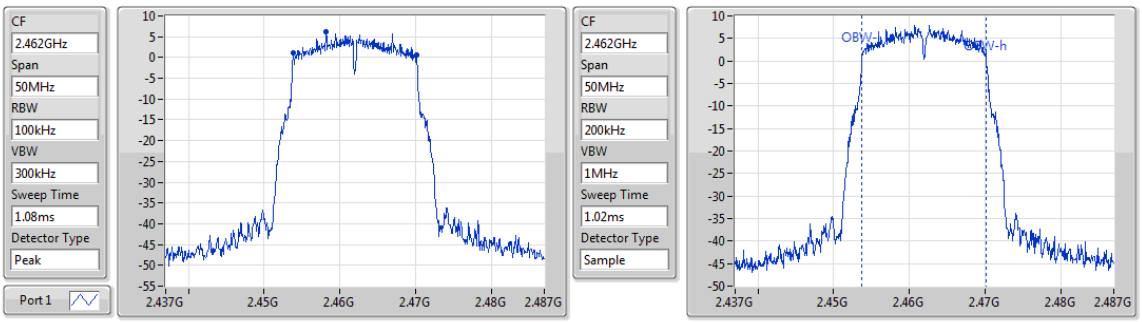
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.072M	2.429464G	2.444536G	16.425M	2.428751G	2.445177G	500k	1

802.11g_Nss1,(6Mbps)_1TX **EBW**

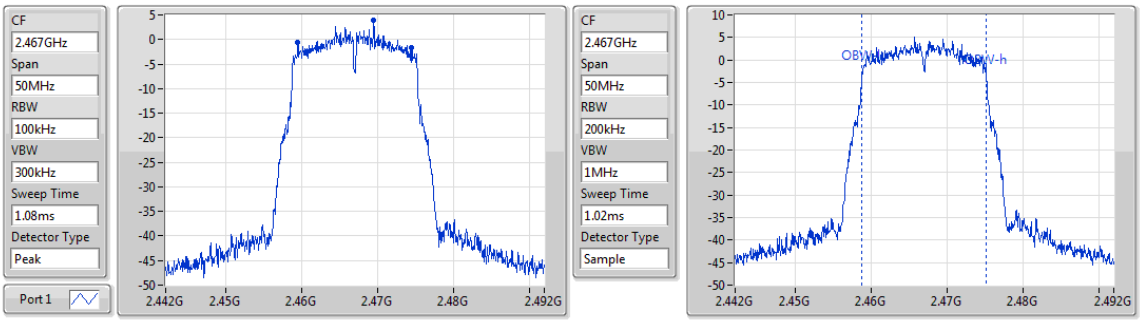
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.304M	2.453812G	2.470116G	16.425M	2.453751G	2.470177G	500k	1

802.11g_Nss1,(6Mbps)_1TX **EBW**

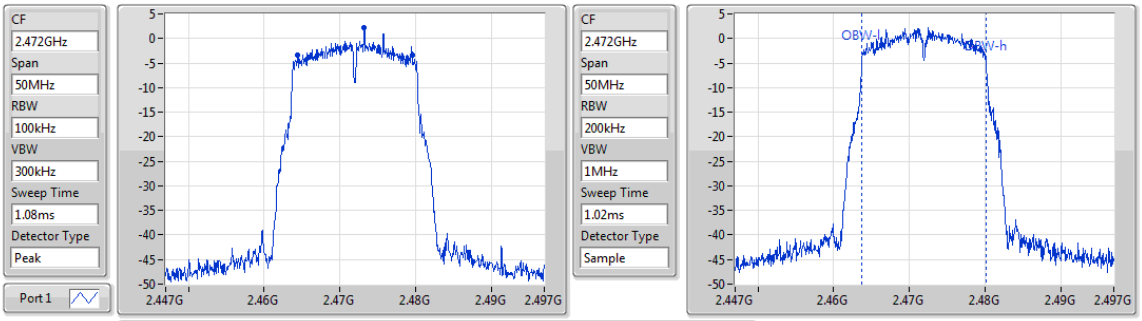
2467MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15M	2.459464G	2.474464G	16.425M	2.458751G	2.475177G	500k	1

802.11g_Nss1,(6Mbps)_1TX EBW

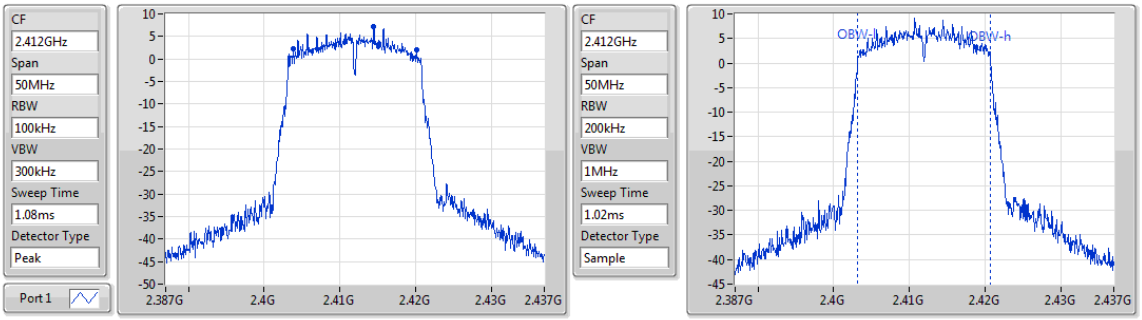
2472MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.072M	2.464464G	2.479536G	16.425M	2.463751G	2.480177G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

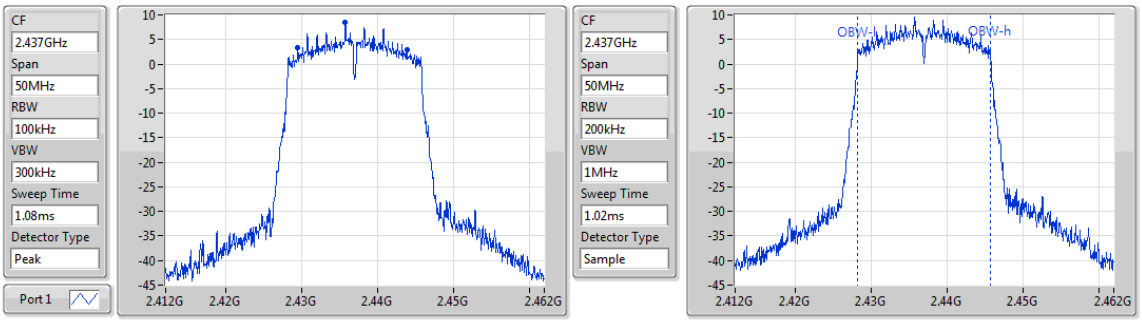
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.304M	2.403812G	2.420116G	17.583M	2.403172G	2.420755G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

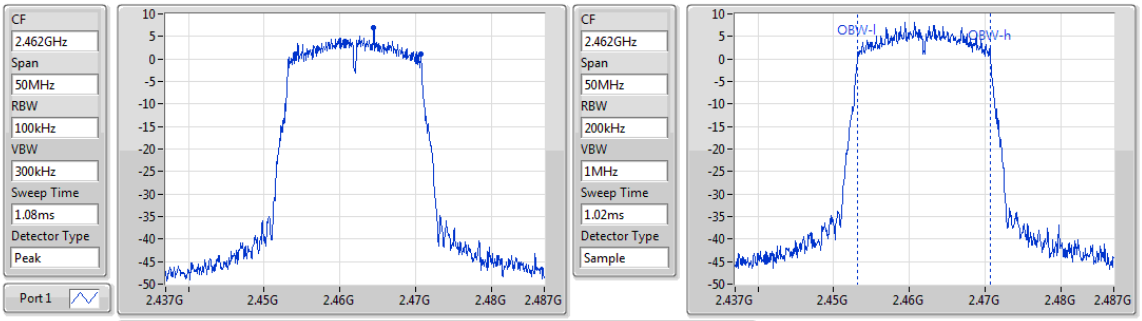
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.42M	2.429464G	2.443884G	17.583M	2.428172G	2.445755G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

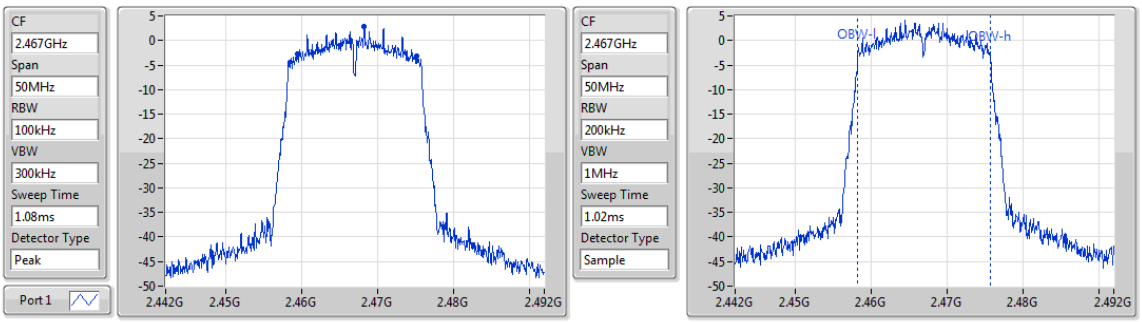
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.594M	2.454101G	2.470696G	17.583M	2.453172G	2.470755G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

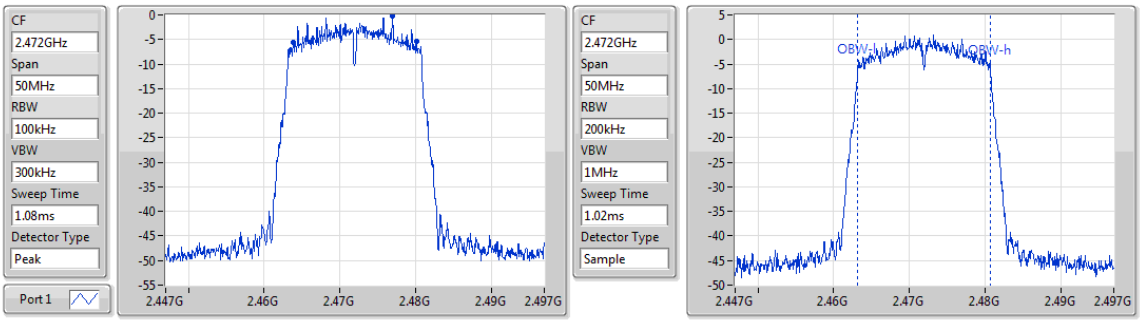
2467MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.652M	2.459464G	2.475116G	17.583M	2.458172G	2.475755G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

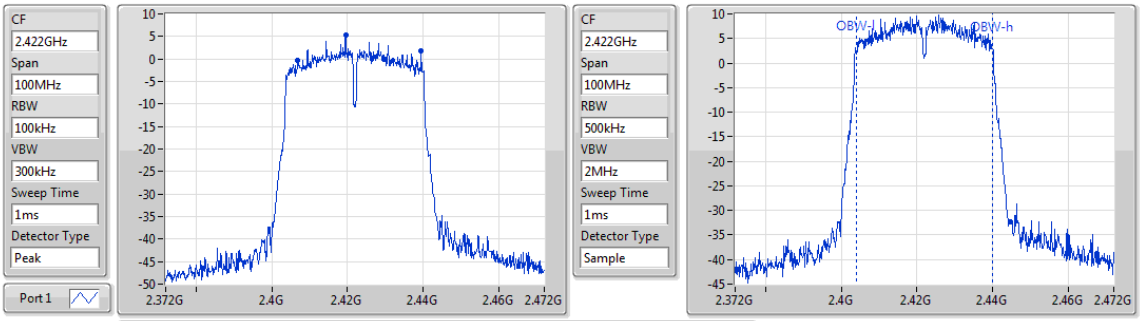
2472MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.304M	2.463812G	2.480116G	17.583M	2.463172G	2.480755G	500k	1

802.11n HT40_Nss1,(MCS0)_1TX **EBW**

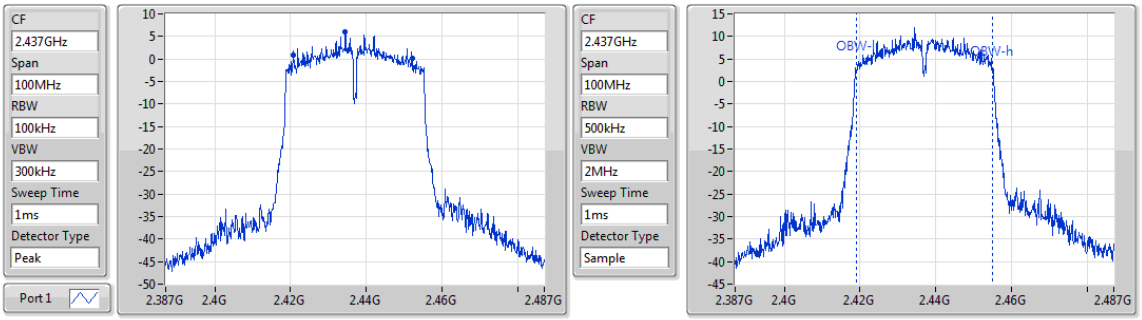
2422MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
32.609M	2.406928G	2.439536G	36.035M	2.40391G	2.439945G	500k	1

802.11n HT40_Nss1,(MCS0)_1TX **EBW**

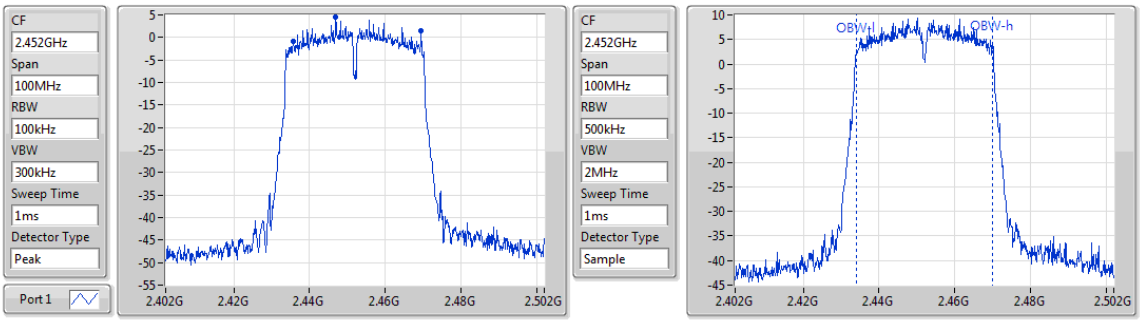
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.449M	2.420623G	2.452072G	36.035M	2.41891G	2.454945G	500k	1

802.11n HT40_Nss1,(MCS0)_1TX **EBW**

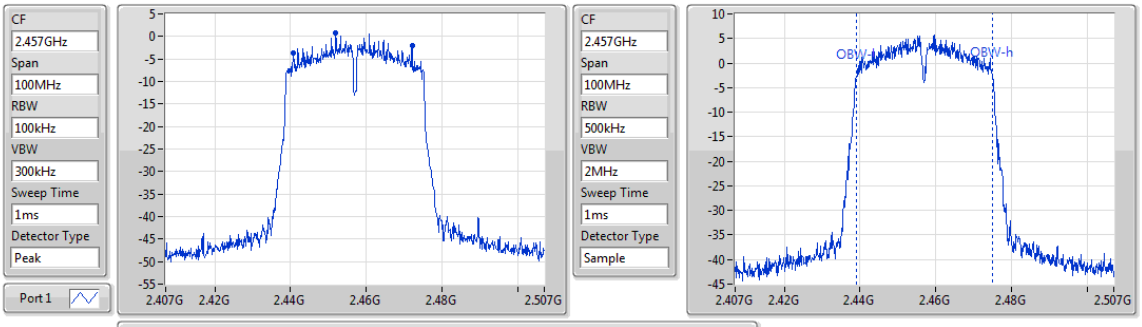
2452MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.913M	2.435623G	2.469536G	36.035M	2.434055G	2.47009G	500k	1

802.11n HT40_Nss1,(MCS0)_1TX **EBW**

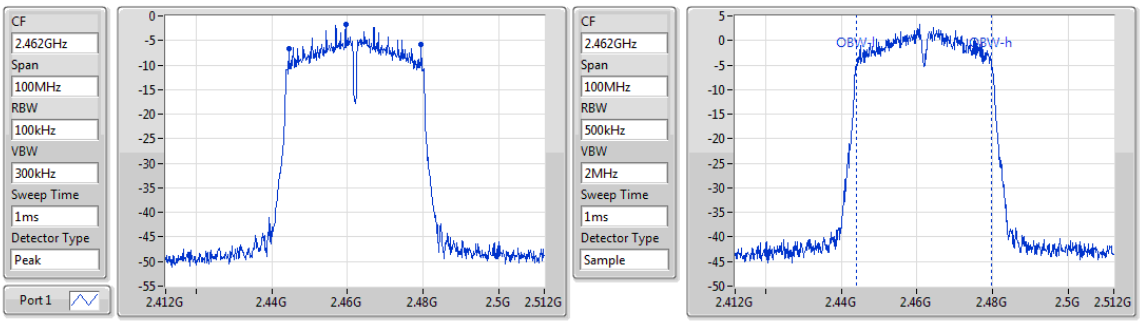
2457MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.449M	2.440623G	2.472072G	35.89M	2.439055G	2.474945G	500k	1

802.11n HT40_Nss1,(MCS0)_1TX **EBW**

2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.072M	2.444464G	2.479536G	35.745M	2.444055G	2.4798G	500k	1

3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

Antenna gain <= 6dBi, no any corresponding reduction is in output power limit.

3.3.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.3.3 Test Setup

3.3.4 Test Result of Maximum Output Power

Ambient Condition	21°C / 66%	Tested By	Aska Huang

Summary of Peak Conducted Output Power

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	21.10	0.12882
802.11g_Nss1,(6Mbps)_1TX	25.95	0.39355
802.11n HT20_Nss1,(MCS0)_1TX	25.89	0.38815
802.11n HT40_Nss1,(MCS0)_1TX	25.81	0.38107

Result

Mode	Result	Antenna Gain (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	3.16	20.92	20.92	30.00	24.08	36.00
2437MHz	Pass	3.16	20.95	20.95	30.00	24.11	36.00
2462MHz	Pass	3.16	21.1	21.10	30.00	24.26	36.00
2467MHz	Pass	3.16	19.01	19.01	30.00	22.17	36.00
2472MHz	Pass	3.16	15.48	15.48	30.00	18.64	36.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	3.16	25.33	25.33	30.00	28.49	36.00
2437MHz	Pass	3.16	25.95	25.95	30.00	29.11	36.00
2462MHz	Pass	3.16	25.32	25.32	30.00	28.48	36.00
2467MHz	Pass	3.16	22.04	22.04	30.00	25.20	36.00
2472MHz	Pass	3.16	19.87	19.87	30.00	23.03	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	3.16	25.21	25.21	30.00	28.37	36.00
2437MHz	Pass	3.16	25.89	25.89	30.00	29.05	36.00
2462MHz	Pass	3.16	25.16	25.16	30.00	28.32	36.00
2467MHz	Pass	3.16	21.89	21.89	30.00	25.05	36.00
2472MHz	Pass	3.16	18.55	18.55	30.00	21.71	36.00

Mode	Result	Antenna Gain (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2422MHz	Pass	3.16	25.12	25.12	30.00	28.28	36.00
2437MHz	Pass	3.16	25.81	25.81	30.00	28.97	36.00
2452MHz	Pass	3.16	24.78	24.78	30.00	27.94	36.00
2457MHz	Pass	3.16	21.41	21.41	30.00	24.57	36.00
2462MHz	Pass	3.16	19.56	19.56	30.00	22.72	36.00

Summary of Conducted (Average) Output Power

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	18.88	0.07727
802.11g_Nss1,(6Mbps)_1TX	18.79	0.07568
802.11n HT20_Nss1,(MCS0)_1TX	18.75	0.07499
802.11n HT40_Nss1,(MCS0)_1TX	18.62	0.07278

Result

Mode	Result	Antenna Gain (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	3.16	18.67	18.67	-	21.83	-
2437MHz	Pass	3.16	18.81	18.81	-	21.97	-
2462MHz	Pass	3.16	18.88	18.88	-	22.04	-
2467MHz	Pass	3.16	16.82	16.82	-	19.98	-
2472MHz	Pass	3.16	13.23	13.23	-	16.39	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	3.16	18.61	18.61	-	21.77	-
2437MHz	Pass	3.16	18.79	18.79	-	21.95	-
2462MHz	Pass	3.16	18.22	18.22	-	21.38	-
2467MHz	Pass	3.16	14.72	14.72	-	17.88	-
2472MHz	Pass	3.16	12.96	12.96	-	16.12	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	3.16	18.52	18.52	-	21.68	-
2437MHz	Pass	3.16	18.75	18.75	-	21.91	-
2462MHz	Pass	3.16	18.06	18.06	-	21.22	-
2467MHz	Pass	3.16	14.22	14.22	-	17.38	-
2472MHz	Pass	3.16	11.43	11.43	-	14.59	-
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2422MHz	Pass	3.16	17.95	17.95	-	21.11	-
2437MHz	Pass	3.16	18.62	18.62	-	21.78	-
2452MHz	Pass	3.16	17.55	17.55	-	20.71	-
2457MHz	Pass	3.16	13.81	13.81	-	16.97	-
2462MHz	Pass	3.16	11.03	11.03	-	14.19	-

Note : Conducted average output power is for reference only

3.4 Power Spectral Density

3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.4.2 Test Procedures

Peak PSD

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = Peak, Sweep time = auto couple.
3. Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

Average PSD, duty cycle ≥ 98%

1. Set the RBW = 30 kHz, VBW = 100 kHz.
2. Detector = RMS, Sweep time = auto couple.
3. Sweep time = auto couple.
4. Employ trace averaging (RMS) mode over a minimum of 100 traces.
5. Use the peak marker function to determine the maximum amplitude level.

Average PSD, duty cycle < 98%

1 Set the RBW = 30 kHz, VBW = 100 kHz. Detector = RMS.

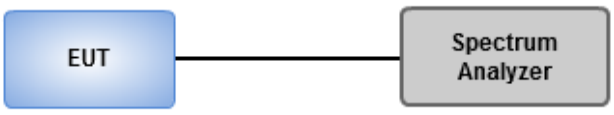
2 Set the sweep time to: ≥ 10 (number of measurement points in sweep) x (total on/off period of the transmitted signal).

3 Perform the measurement over a single sweep.

4 Use the peak marker function to determine the maximum amplitude level.

5 Add 10 log (1/x), where x is the duty cycle.

3.4.3 Test Setup



3.4.4 Test Result of Power Spectral Density

Ambient Condition	21°C / 66%	Tested By	Aska Huang

Summary

Mode	PD (dBm/3kHz)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-3.98
802.11g_Nss1,(6Mbps)_1TX	-5.89
802.11n HT20_Nss1,(MCS0)_1TX	-6.01
802.11n HT40_Nss1,(MCS0)_1TX	-8.69

Result

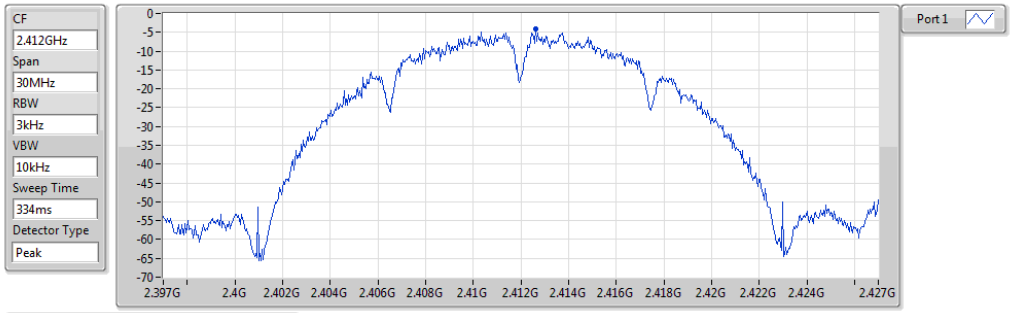
Mode	Result	Antenna Gain (dBi)	Port 1 (dBm/3kHz)	PD (dBm/3kHz)	PD Limit (dBm/3kHz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.16	-4.21	-4.21	8.00
2437MHz	Pass	3.16	-4.71	-4.71	8.00
2462MHz	Pass	3.16	-3.98	-3.98	8.00
2467MHz	Pass	3.16	-5.45	-5.45	8.00
2472MHz	Pass	3.16	-9.62	-9.62	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.16	-6.49	-6.49	8.00
2437MHz	Pass	3.16	-6.18	-6.18	8.00
2462MHz	Pass	3.16	-5.89	-5.89	8.00
2467MHz	Pass	3.16	-8.63	-8.63	8.00
2472MHz	Pass	3.16	-11.68	-11.68	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.16	-6.89	-6.89	8.00
2437MHz	Pass	3.16	-6.01	-6.01	8.00
2462MHz	Pass	3.16	-6.78	-6.78	8.00
2467MHz	Pass	3.16	-10.68	-10.68	8.00
2472MHz	Pass	3.16	-14.06	-14.06	8.00

Mode	Result	Antenna Gain (dBi)	Port 1 (dBm/3kHz)	PD (dBm/3kHz)	PD Limit (dBm/3kHz)
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	3.16	-9.70	-9.70	8.00
2437MHz	Pass	3.16	-8.69	-8.69	8.00
2452MHz	Pass	3.16	-10.21	-10.21	8.00
2457MHz	Pass	3.16	-12.50	-12.50	8.00
2462MHz	Pass	3.16	-16.08	-16.08	8.00

Port X = Port X power density;

802.11b_Nss1,(1Mbps)_1TX **PSD**

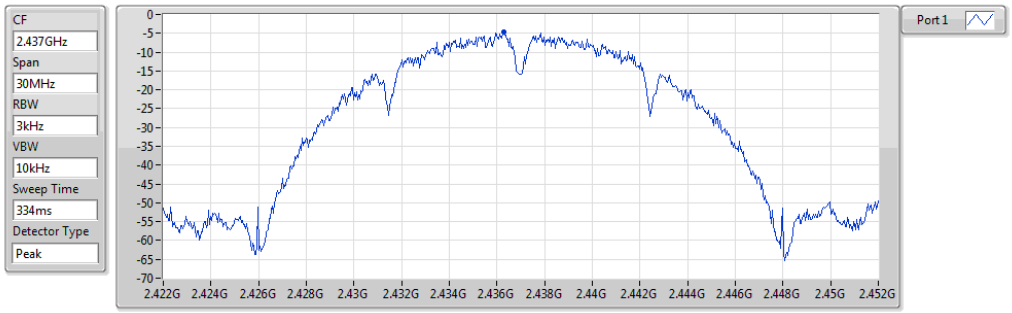
2412MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.21	-4.21	-4.21

802.11b_Nss1,(1Mbps)_1TX **PSD**

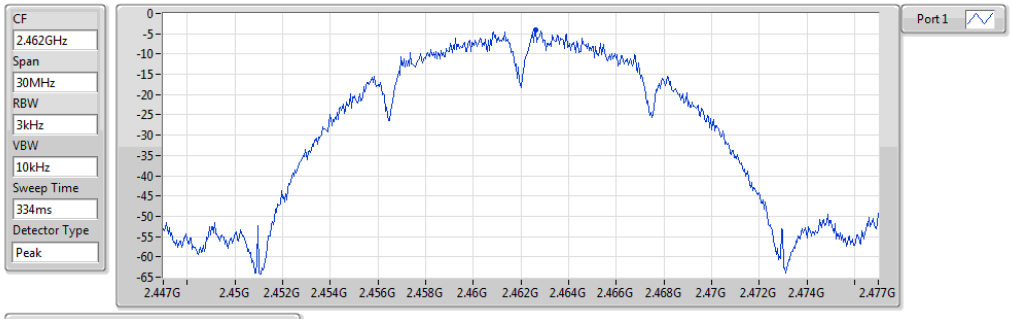
2437MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.71	-4.71	-4.71

802.11b_Nss1,(1Mbps)_1TX **PSD**

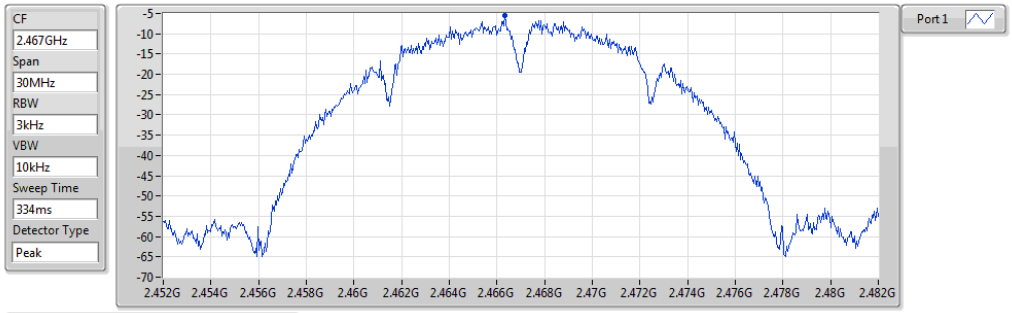
2462MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.98	-3.98	-3.98

802.11b_Nss1,(1Mbps)_1TX **PSD**

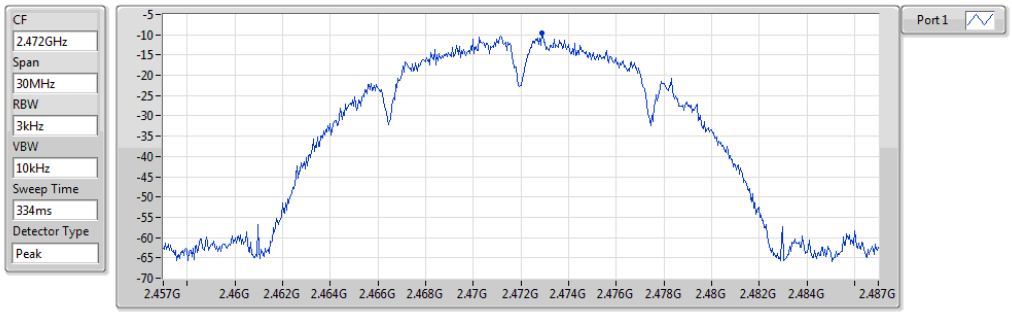
2467MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.45	-5.45	-5.45

802.11b_Nss1,(1Mbps)_1TX **PSD**

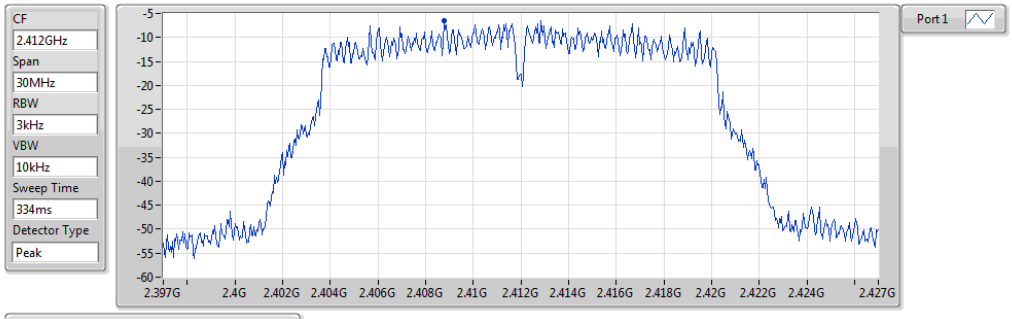
2472MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.62	-9.62	-9.62

802.11g_Nss1,(6Mbps)_1TX **PSD**

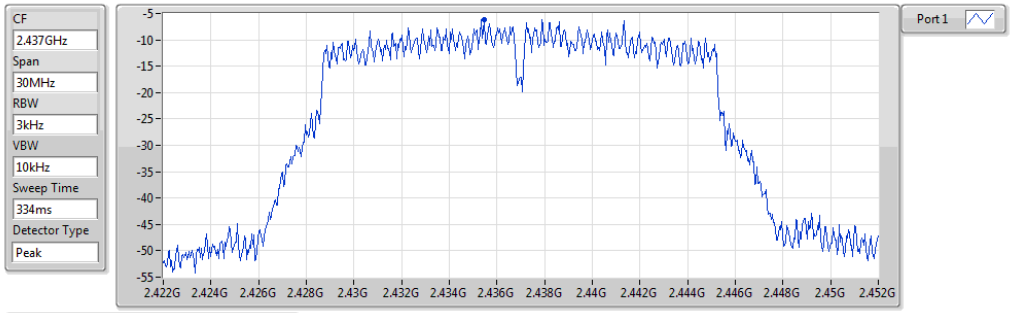
2412MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.49	-6.49	-6.49

802.11g_Nss1,(6Mbps)_1TX **PSD**

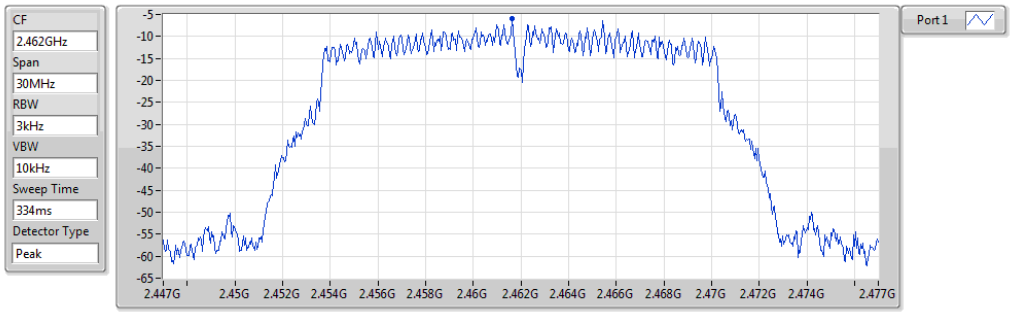
2437MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.18	-6.18	-6.18

802.11g_Nss1,(6Mbps)_1TX **PSD**

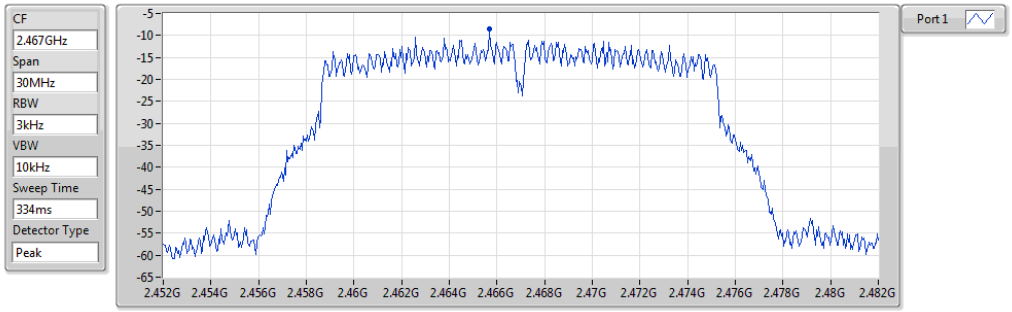
2462MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.89	-5.89	-5.89

802.11g_Nss1,(6Mbps)_1TX **PSD**

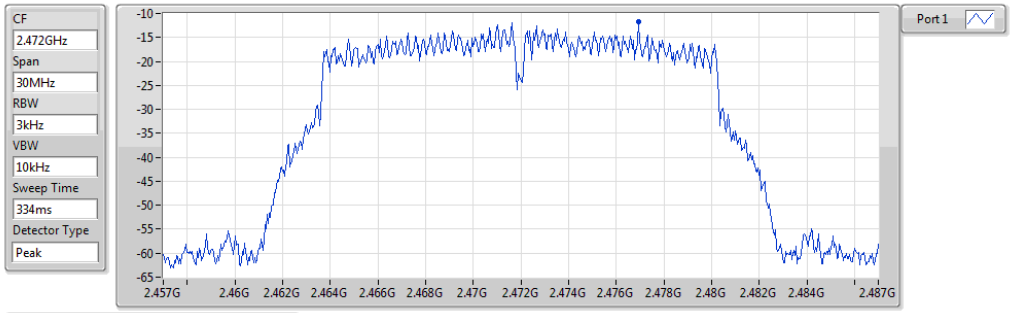
2467MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.63	-8.63	-8.63

802.11g_Nss1,(6Mbps)_1TX **PSD**

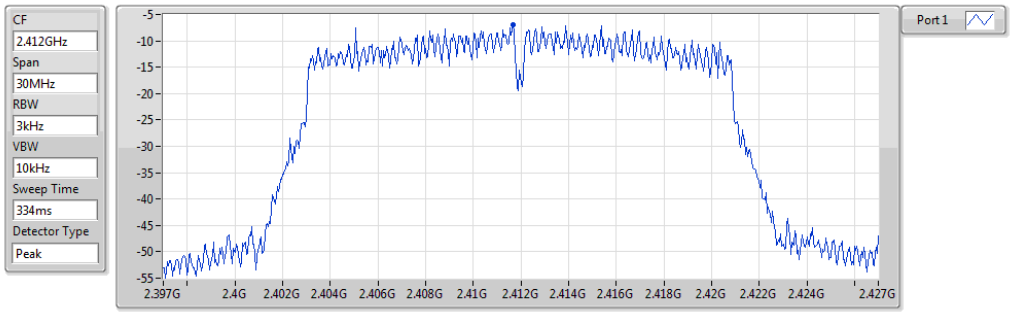
2472MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.68	-11.68	-11.68

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

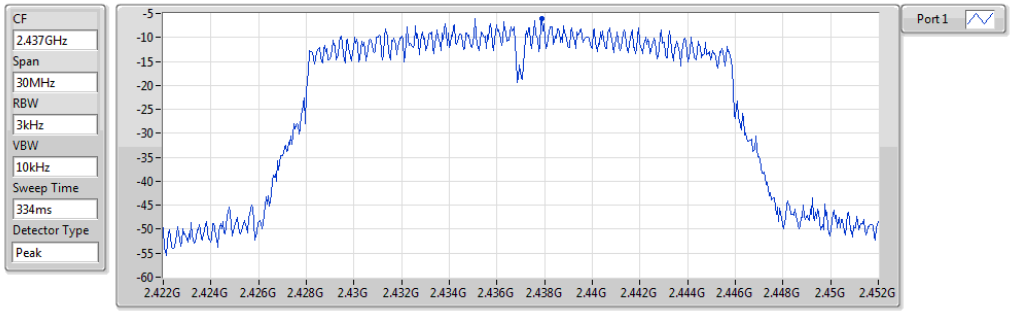
2412MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.89	-6.89	-6.89

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

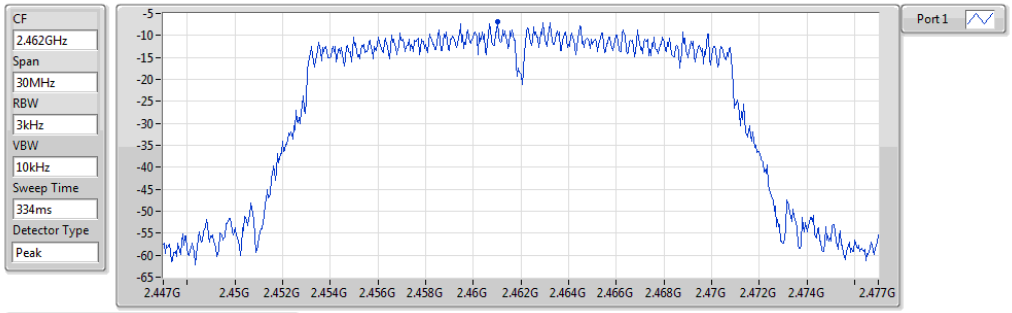
2437MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.01	-6.01	-6.01

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

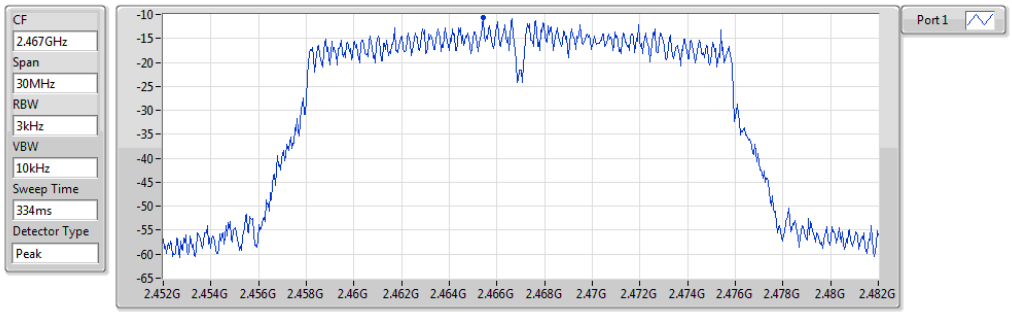
2462MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.78	-6.78	-6.78

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

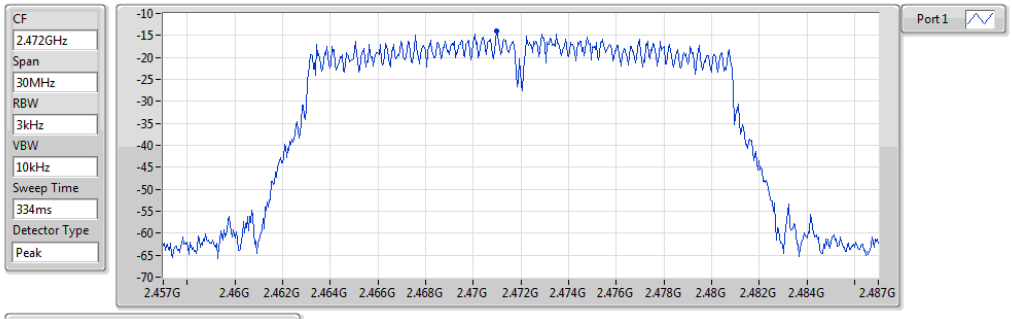
2467MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.68	-10.68	-10.68

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

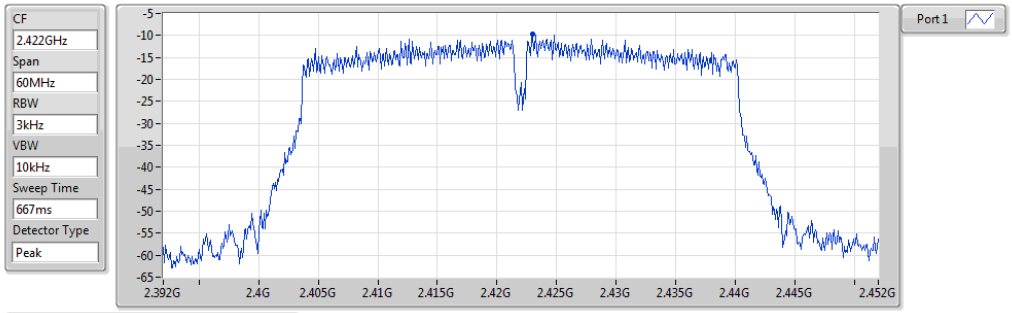
2472MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.06	-14.06	-14.06

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

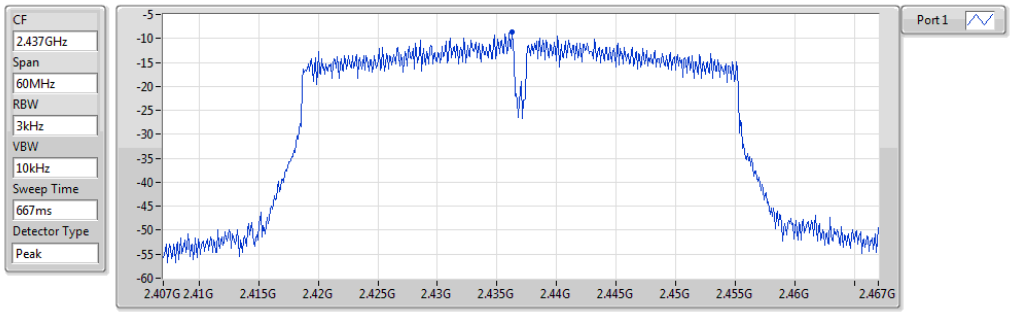
2422MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.70	-9.70	-9.70

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

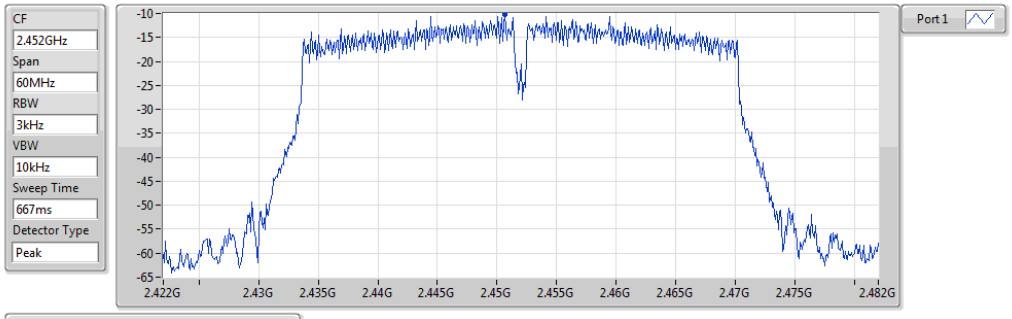
2437MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.69	-8.69	-8.69

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

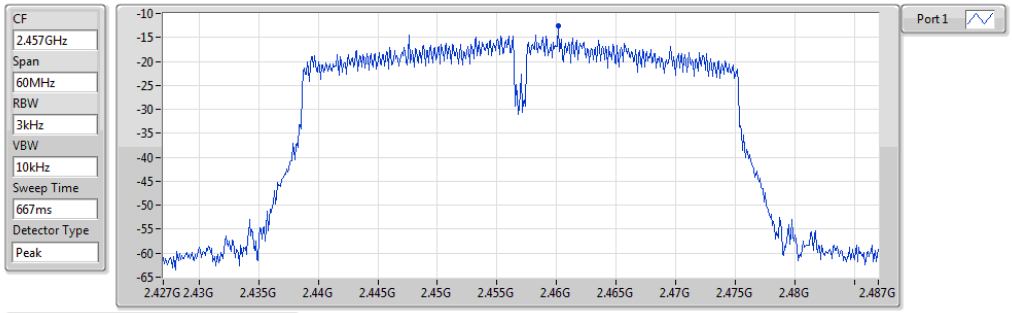
2452MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.21	-10.21	-10.21

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

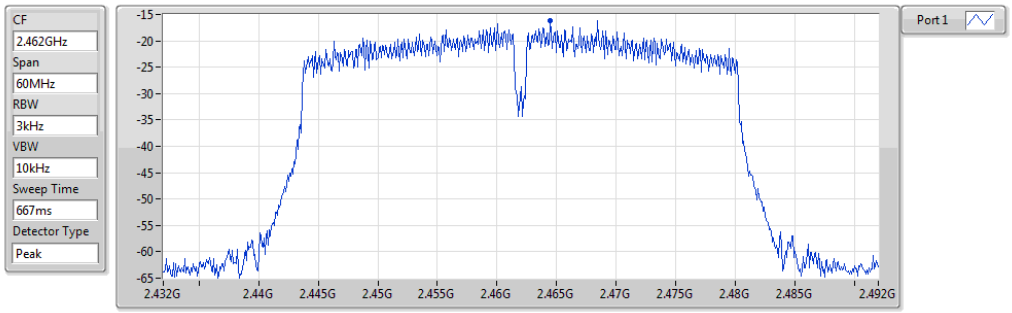
2457MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.50	-12.50	-12.50

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

2462MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-16.08	-16.08	-16.08

3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

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.

3.5.2 Test Procedures

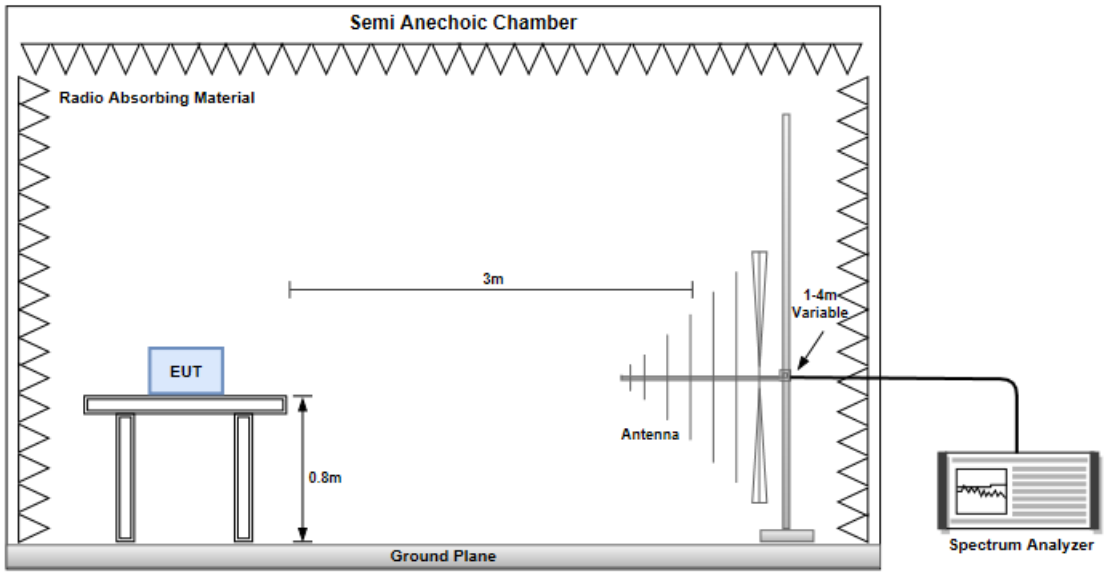
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

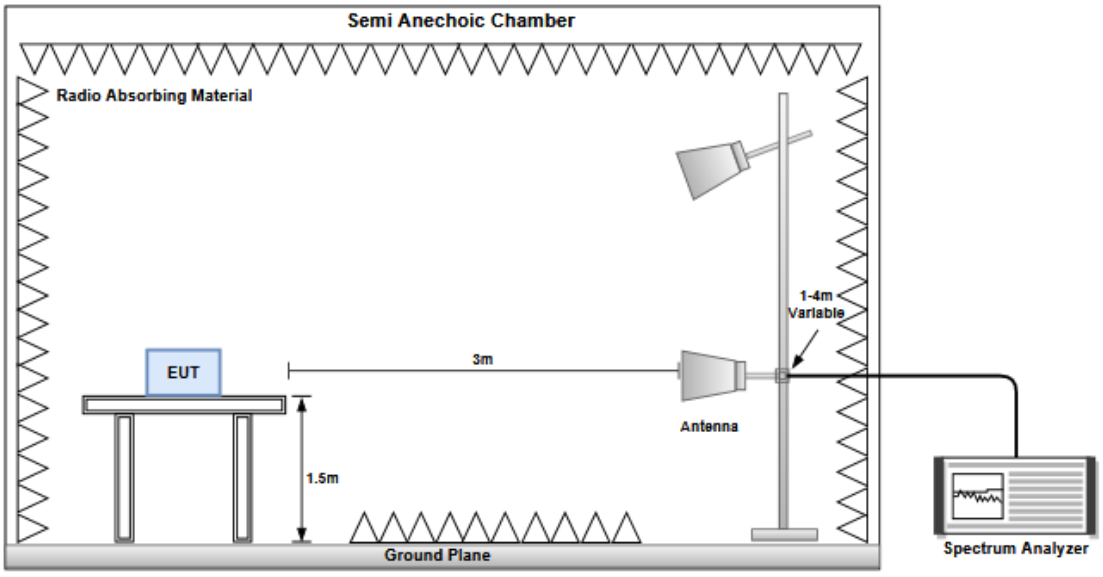
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz

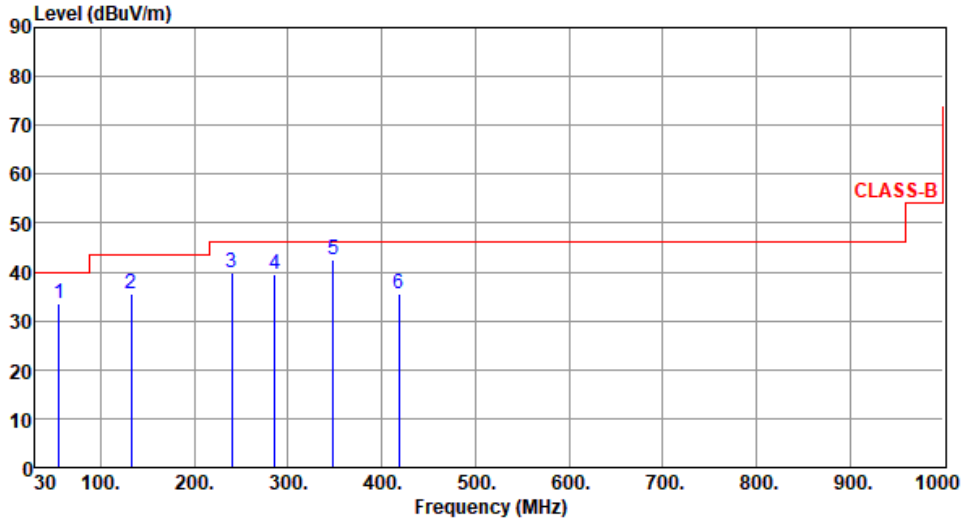


Test Configuration 1

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):24 Humidity(%):65

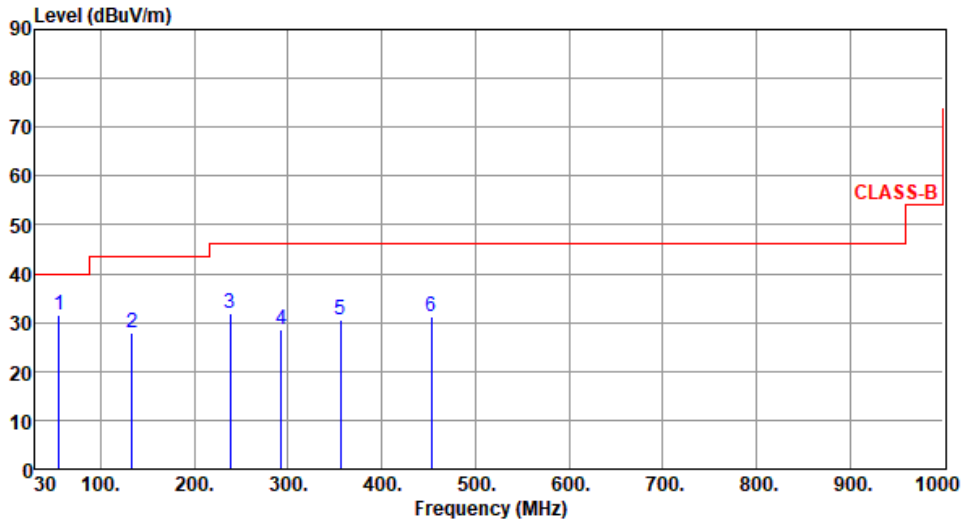


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	55.56	33.56	40.00	-6.44	42.55	-8.99	Peak	---	---
2	132.59	35.61	43.50	-7.89	45.24	-9.63	Peak	---	---
3	240.16	39.81	46.00	-6.19	50.19	-10.38	Peak	---	---
4	286.15	39.45	46.00	-6.55	47.96	-8.51	Peak	---	---
5	348.59	42.61	46.00	-3.39	49.73	-7.12	Peak	---	---
6	418.26	35.59	46.00	-10.41	40.82	-5.23	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	11g	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):24 Humidity(%):65



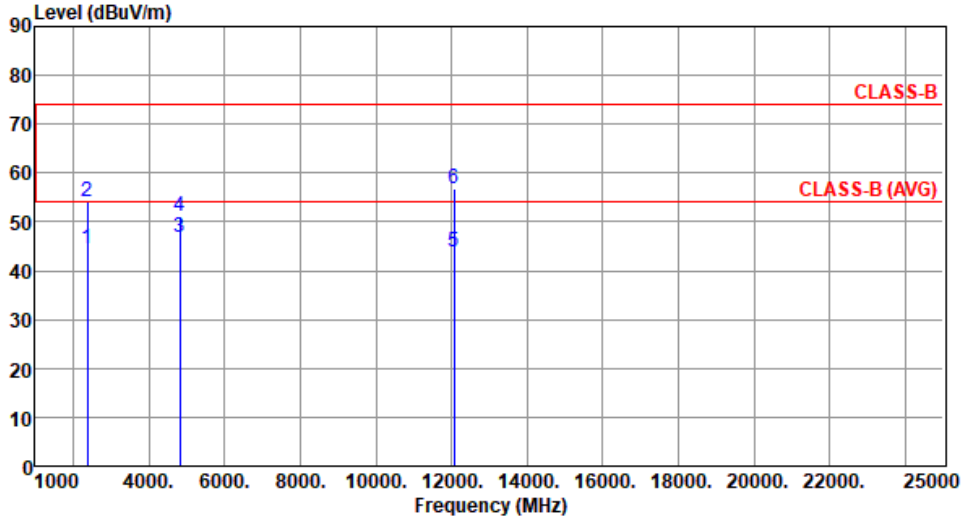
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	55.16	31.59	40.00	-8.41	40.58	-8.99	Peak	---	---
2	133.56	27.95	43.50	-15.55	37.50	-9.55	Peak	---	---
3	238.42	31.82	46.00	-14.18	42.37	-10.55	Peak	---	---
4	292.46	28.64	46.00	-17.36	36.93	-8.29	Peak	---	---
5	356.16	30.64	46.00	-15.36	37.46	-6.82	Peak	---	---
6	452.86	31.29	46.00	-14.71	35.46	-4.17	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.

3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

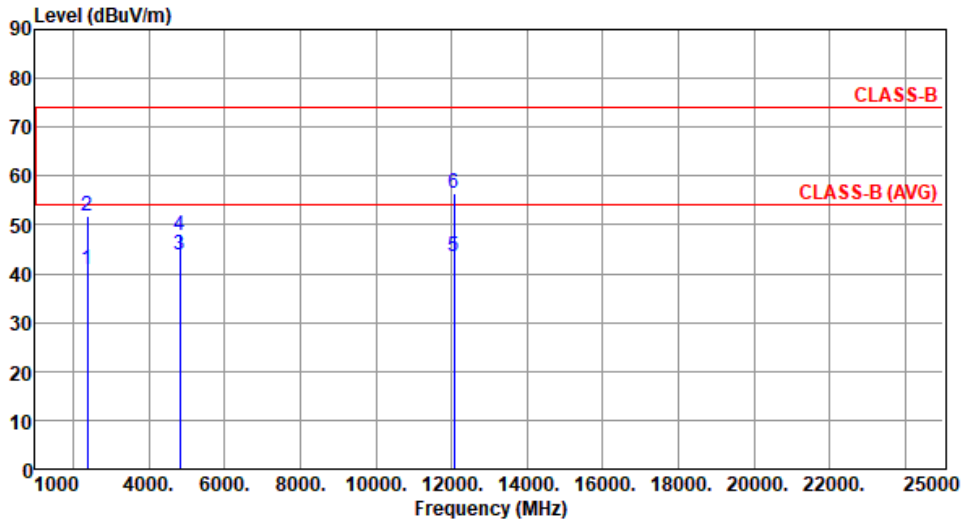


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	44.36	54.00	-9.64	47.11	-2.75	Average	264	29
2	2390.00	54.20	74.00	-19.80	56.95	-2.75	Peak	264	29
3	4824.00	46.83	54.00	-7.17	42.69	4.14	Average	145	95
4	4824.00	50.99	74.00	-23.01	46.85	4.14	Peak	145	95
5	12060.00	43.73	54.00	-10.27	29.94	13.79	Average	100	88
6	12060.00	56.65	74.00	-17.35	42.86	13.79	Peak	100	88

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	11b	Test Freq. (MHz)	2412
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

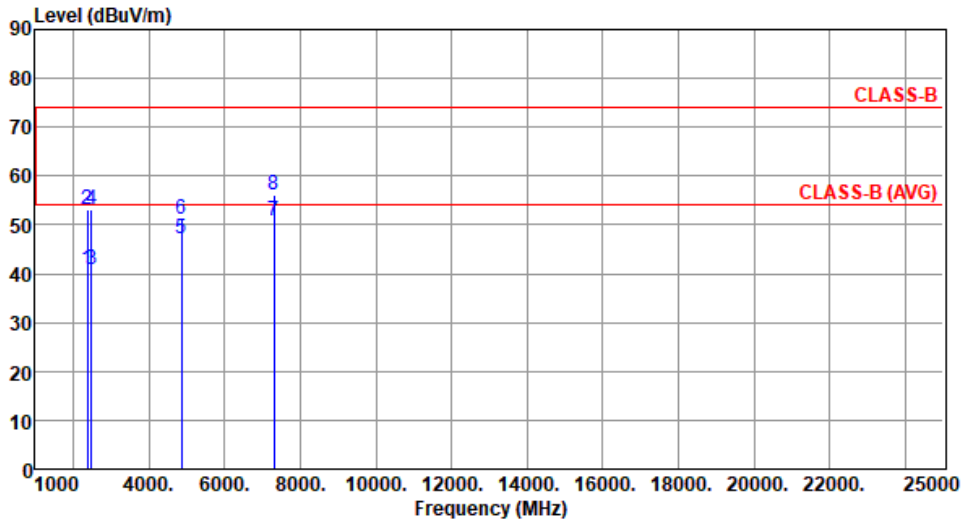


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	40.81	54.00	-13.19	43.56	-2.75	Average	305	301
2	2390.00	51.84	74.00	-22.16	54.59	-2.75	Peak	305	301
3	4824.00	43.79	54.00	-10.21	39.65	4.14	Average	100	116
4	4824.00	47.82	74.00	-26.18	43.68	4.14	Peak	100	116
5	12060.00	43.52	54.00	-10.48	29.73	13.79	Average	100	133
6	12060.00	56.47	74.00	-17.53	42.68	13.79	Peak	100	133

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	11b	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

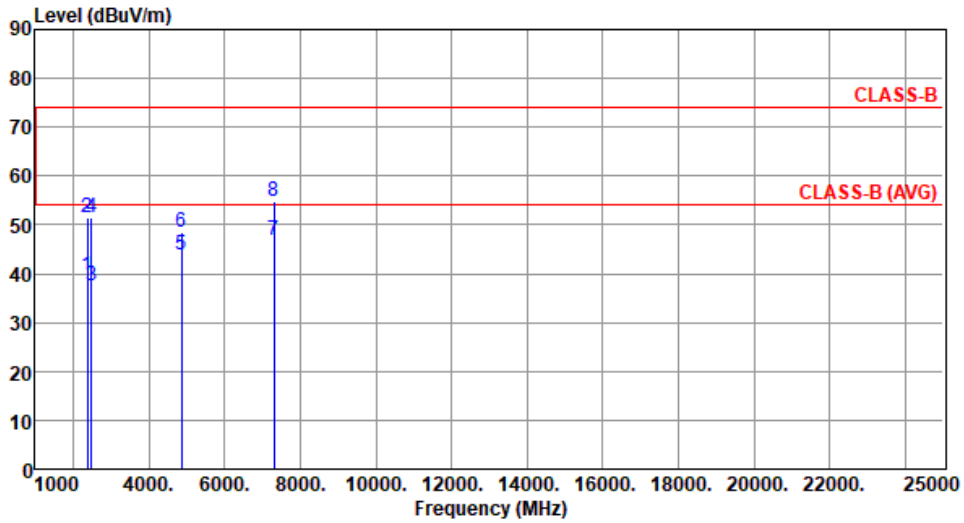


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	40.91	54.00	-13.09	43.66	-2.75	Average	144	9
2	2390.00	53.13	74.00	-20.87	55.88	-2.75	Peak	144	9
3	2483.50	40.84	54.00	-13.16	43.54	-2.70	Average	144	9
4	2483.50	53.07	74.00	-20.93	55.77	-2.70	Peak	144	9
5	4874.00	47.26	54.00	-6.74	43.13	4.13	Average	151	97
6	4874.00	51.18	74.00	-22.82	47.05	4.13	Peak	151	97
7	7311.00	50.69	54.00	-3.31	41.41	9.28	Average	100	87
8	7311.00	56.23	74.00	-17.77	46.95	9.28	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	11b	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

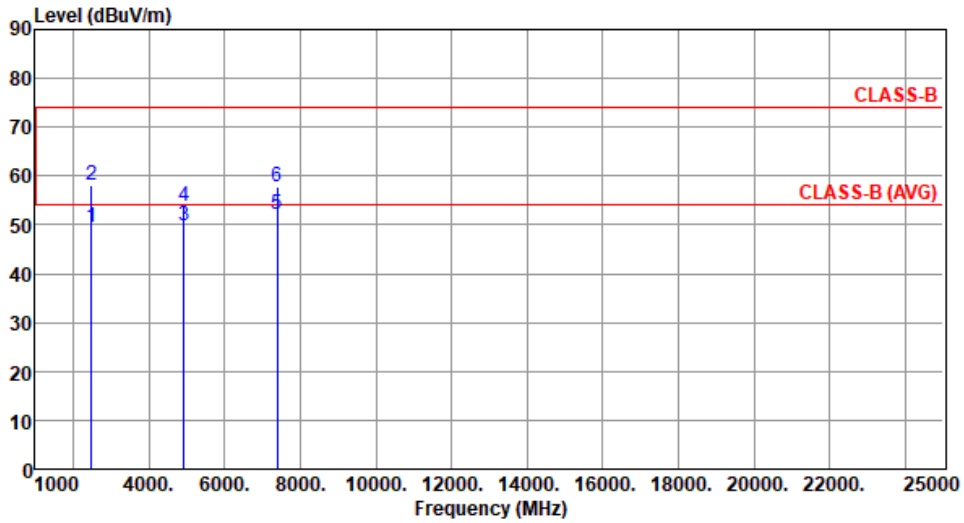


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	39.58	54.00	-14.42	42.33	-2.75	Average	309	305
2	2390.00	51.61	74.00	-22.39	54.36	-2.75	Peak	309	305
3	2483.50	37.51	54.00	-16.49	40.21	-2.70	Average	309	305
4	2483.50	51.56	74.00	-22.44	54.26	-2.70	Peak	309	305
5	4874.00	43.82	54.00	-10.18	39.69	4.13	Average	100	114
6	4874.00	48.36	74.00	-25.64	44.23	4.13	Peak	100	114
7	7311.00	46.66	54.00	-7.34	37.38	9.28	Average	100	68
8	7311.00	54.74	74.00	-19.26	45.46	9.28	Peak	100	68

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	11b	Test Freq. (MHz)	2462
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

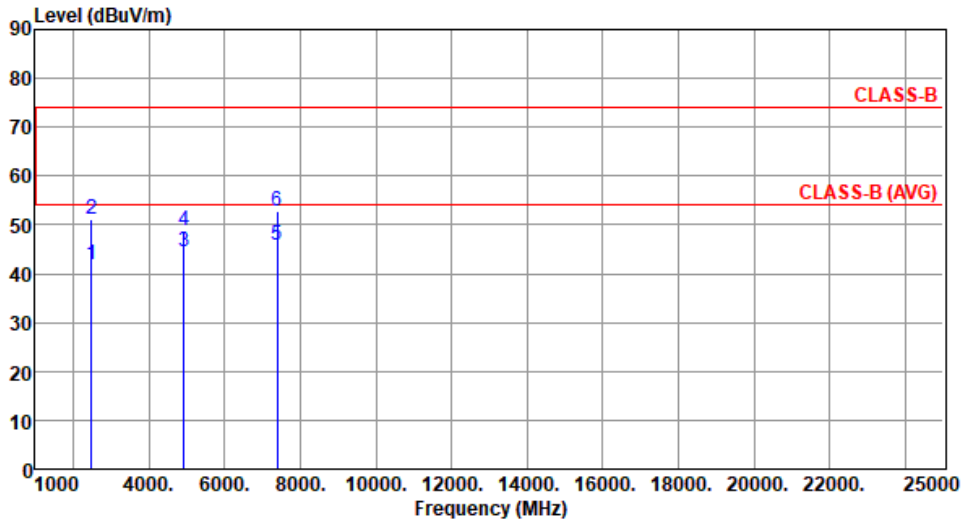


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	49.51	54.00	-4.49	52.21	-2.70	Average	100	327
2	2483.50	58.15	74.00	-15.85	60.85	-2.70	Peak	100	327
3	4924.00	49.94	54.00	-4.06	45.88	4.06	Average	158	93
4	4924.00	53.72	74.00	-20.28	49.66	4.06	Peak	158	93
5	7386.00	52.13	54.00	-1.87	42.88	9.25	Average	112	88
6	7386.00	57.69	74.00	-16.31	48.44	9.25	Peak	112	88

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	11b	Test Freq. (MHz)	2462
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

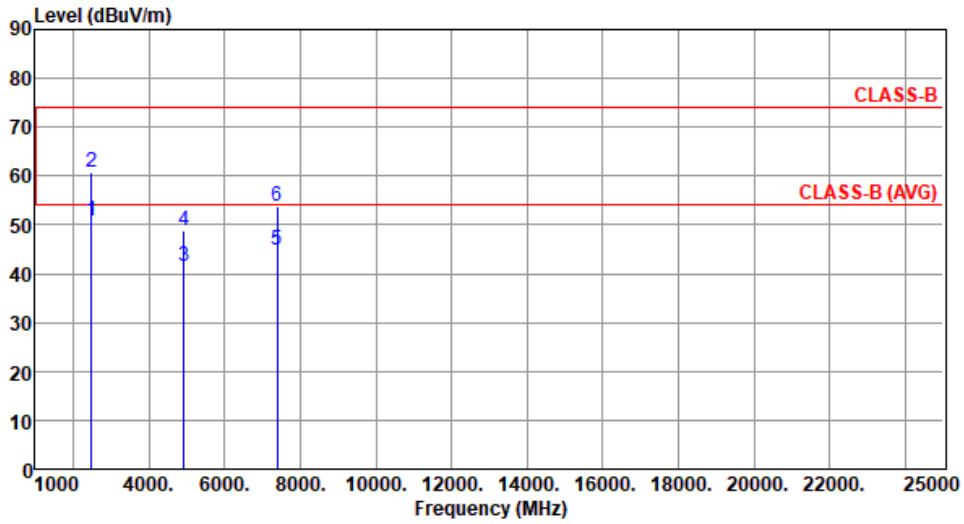


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	41.86	54.00	-12.14	44.56	-2.70	Average	305	302
2	2483.50	51.06	74.00	-22.94	53.76	-2.70	Peak	305	302
3	4924.00	44.65	54.00	-9.35	40.59	4.06	Average	100	112
4	4924.00	48.74	74.00	-25.26	44.68	4.06	Peak	100	112
5	7386.00	45.87	54.00	-8.13	36.62	9.25	Average	100	66
6	7386.00	52.84	74.00	-21.16	43.59	9.25	Peak	100	66

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	11b	Test Freq. (MHz)	2467
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

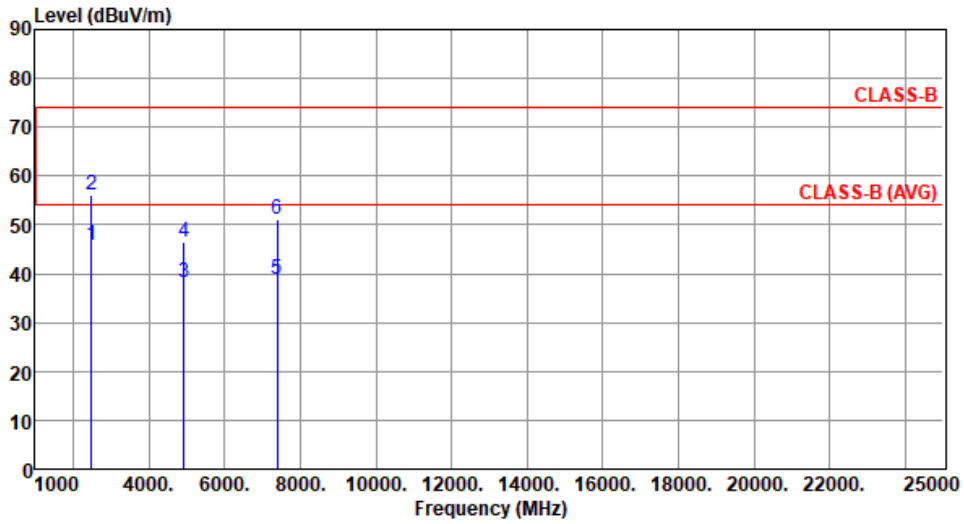


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	50.88	54.00	-3.12	53.58	-2.70	Average	211	11
2	2483.50	60.88	74.00	-13.12	63.58	-2.70	Peak	211	11
3	4934.00	41.64	54.00	-12.36	37.60	4.04	Average	155	95
4	4934.00	48.67	74.00	-25.33	44.63	4.04	Peak	155	95
5	7401.00	44.90	54.00	-9.10	35.66	9.24	Average	113	85
6	7401.00	53.83	74.00	-20.17	44.59	9.24	Peak	113	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	11b	Test Freq. (MHz)	2467
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

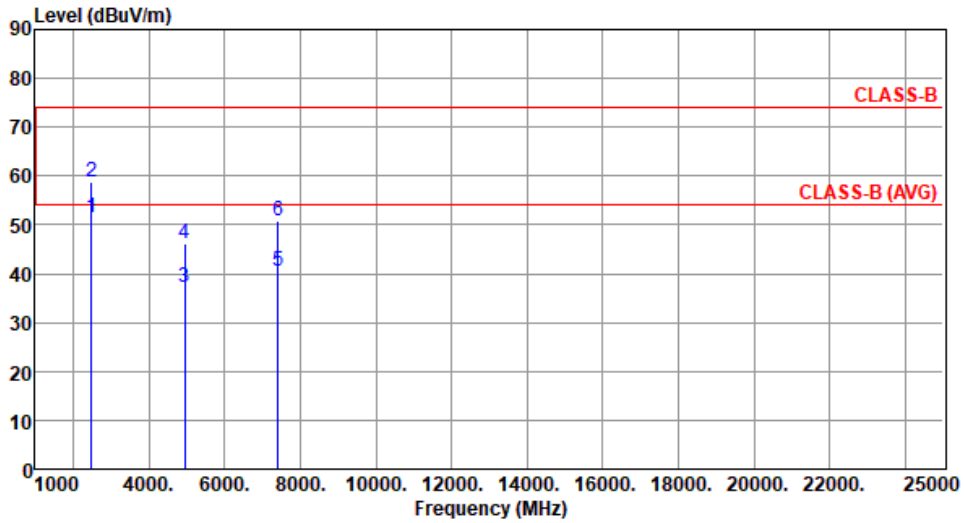


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	45.89	54.00	-8.11	48.59	-2.70	Average	305	303
2	2483.50	55.96	74.00	-18.04	58.66	-2.70	Peak	305	303
3	4934.00	38.30	54.00	-15.70	34.26	4.04	Average	100	113
4	4934.00	46.34	74.00	-27.66	42.30	4.04	Peak	100	113
5	7401.00	38.83	54.00	-15.17	29.59	9.24	Average	100	65
6	7401.00	51.02	74.00	-22.98	41.78	9.24	Peak	100	65

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	11b	Test Freq. (MHz)	2472
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

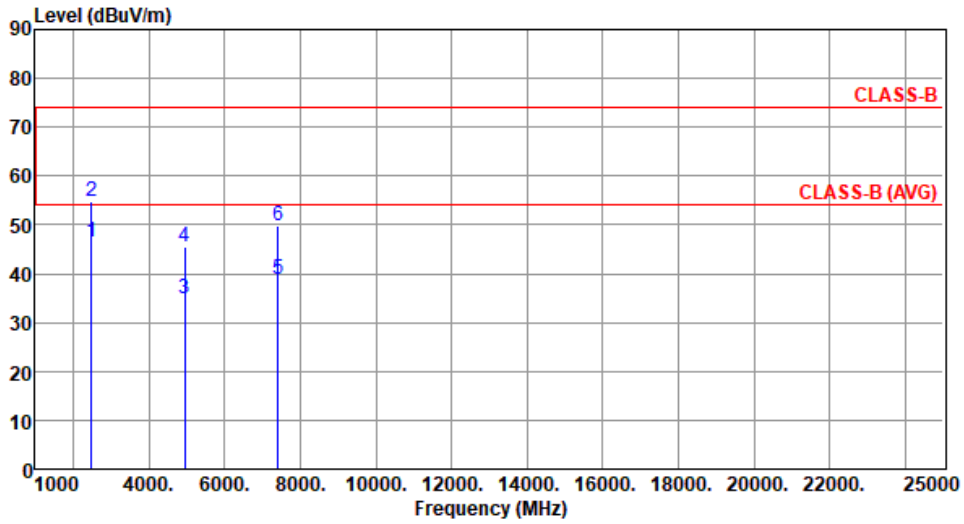


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	51.45	54.00	-2.55	54.15	-2.70	Average	250	31
2	2483.50	58.69	74.00	-15.31	61.39	-2.70	Peak	250	31
3	4944.00	37.10	54.00	-16.90	33.06	4.04	Average	158	93
4	4944.00	46.33	74.00	-27.67	42.29	4.04	Peak	158	93
5	7416.00	40.44	54.00	-13.56	31.15	9.29	Average	119	81
6	7416.00	50.96	74.00	-23.04	41.67	9.29	Peak	119	81

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	11b	Test Freq. (MHz)	2472
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65



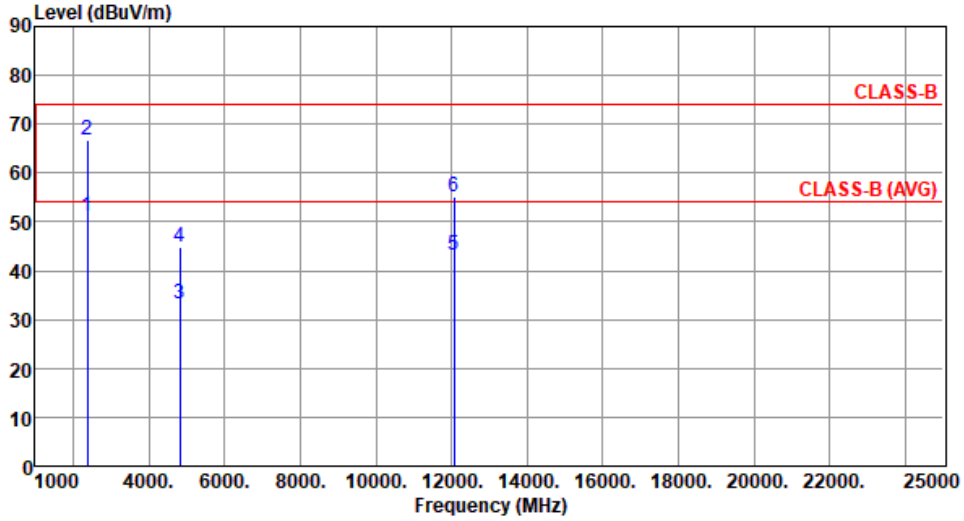
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	46.52	54.00	-7.48	49.22	-2.70	Average	303	300
2	2483.50	54.88	74.00	-19.12	57.58	-2.70	Peak	303	300
3	4944.00	34.93	54.00	-19.07	30.89	4.04	Average	100	118
4	4944.00	45.63	74.00	-28.37	41.59	4.04	Peak	100	118
5	7416.00	38.75	54.00	-15.25	29.46	9.29	Average	100	69
6	7416.00	49.95	74.00	-24.05	40.66	9.29	Peak	100	69

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).

3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		

Test By :Akun Chung Temperature(°C):22 Humidity(%):65

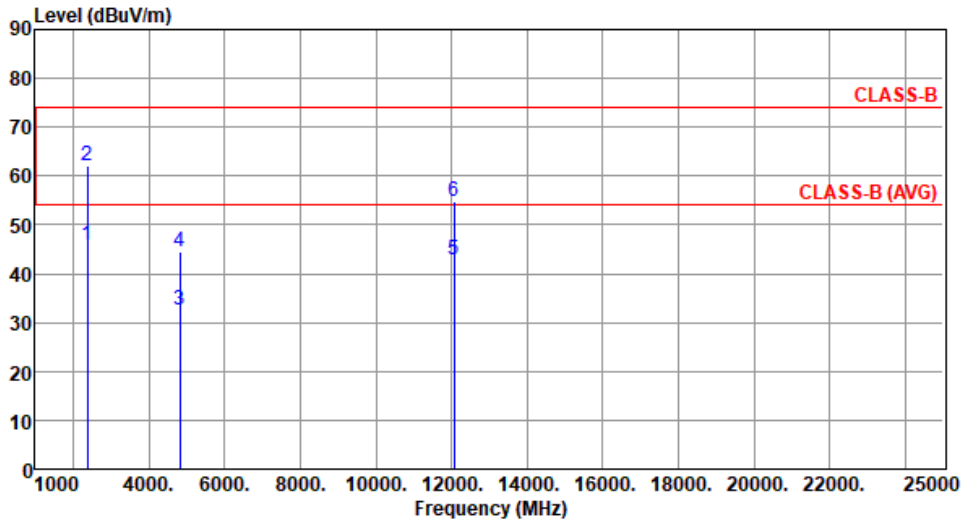


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	51.13	54.00	-2.87	53.88	-2.75	Average	298	23
2	2390.00	66.79	74.00	-7.21	69.54	-2.75	Peak	298	23
3	4824.00	33.26	54.00	-20.74	29.12	4.14	Average	151	95
4	4824.00	44.82	74.00	-29.18	40.68	4.14	Peak	151	95
5	12060.00	43.03	54.00	-10.97	29.24	13.79	Average	100	100
6	12060.00	55.16	74.00	-18.84	41.37	13.79	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	11g	Test Freq. (MHz)	2412
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

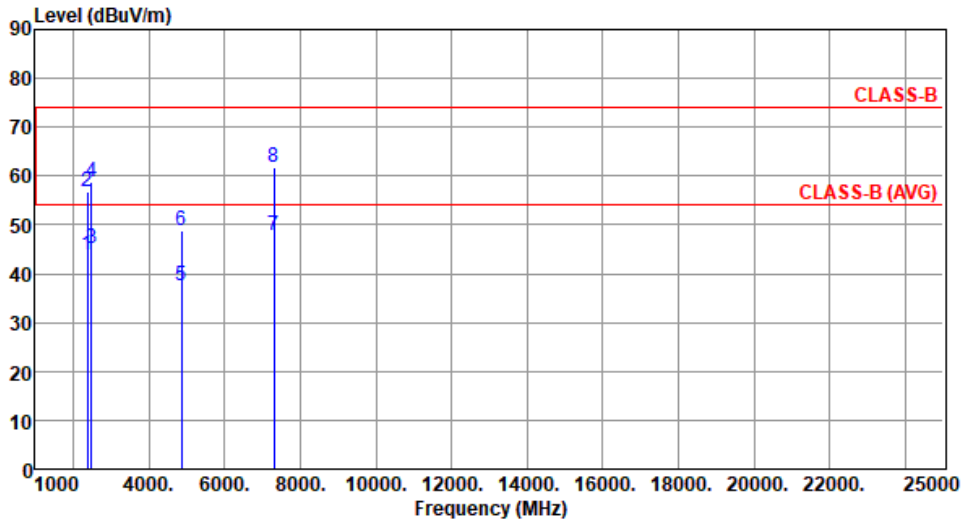


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	45.90	54.00	-8.10	48.65	-2.75	Average	303	309
2	2390.00	62.00	74.00	-12.00	64.75	-2.75	Peak	303	309
3	4824.00	32.70	54.00	-21.30	28.56	4.14	Average	100	30
4	4824.00	44.40	74.00	-29.60	40.26	4.14	Peak	100	30
5	12060.00	42.93	54.00	-11.07	29.14	13.79	Average	100	20
6	12060.00	54.84	74.00	-19.16	41.05	13.79	Peak	100	20

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	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

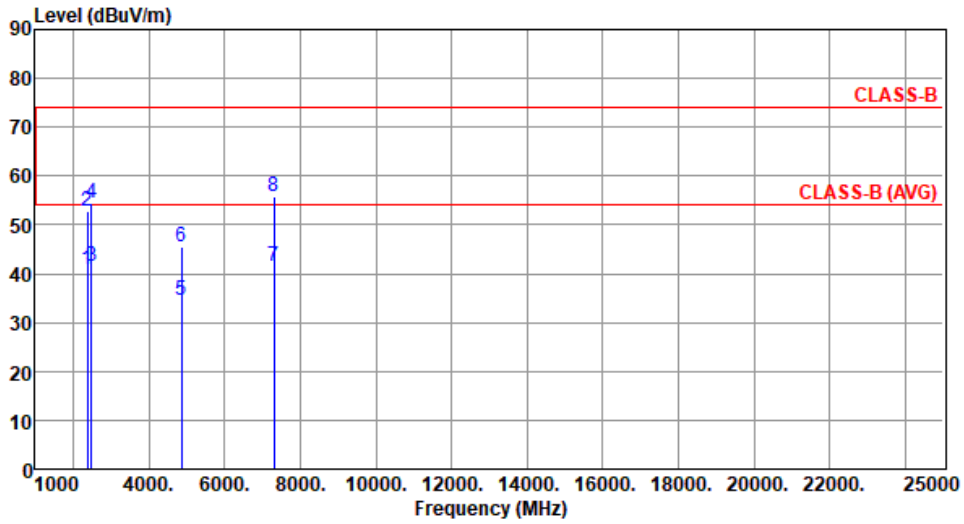


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	43.70	54.00	-10.30	46.45	-2.75	Average	291	35
2	2390.00	56.64	74.00	-17.36	59.39	-2.75	Peak	291	35
3	2483.50	45.25	54.00	-8.75	47.95	-2.70	Average	291	35
4	2483.50	58.88	74.00	-15.12	61.58	-2.70	Peak	291	35
5	4874.00	37.64	54.00	-16.36	33.51	4.13	Average	149	93
6	4874.00	48.93	74.00	-25.07	44.80	4.13	Peak	149	93
7	7311.00	47.74	54.00	-6.26	38.46	9.28	Average	132	96
8	7311.00	61.86	74.00	-12.14	52.58	9.28	Peak	132	96

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	11g	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

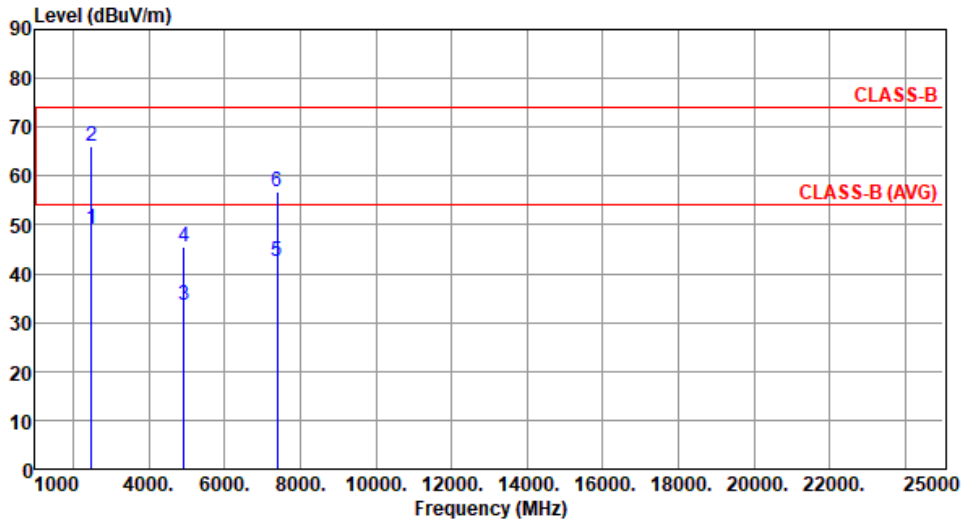


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	40.81	54.00	-13.19	43.56	-2.75	Average	303	309
2	2390.00	52.80	74.00	-21.20	55.55	-2.75	Peak	303	309
3	2483.50	41.51	54.00	-12.49	44.21	-2.70	Average	303	309
4	2483.50	54.45	74.00	-19.55	57.15	-2.70	Peak	303	309
5	4874.00	34.38	54.00	-19.62	30.25	4.13	Average	100	112
6	4874.00	45.42	74.00	-28.58	41.29	4.13	Peak	100	112
7	7311.00	41.66	54.00	-12.34	32.38	9.28	Average	100	71
8	7311.00	55.87	74.00	-18.13	46.59	9.28	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	11g	Test Freq. (MHz)	2462
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

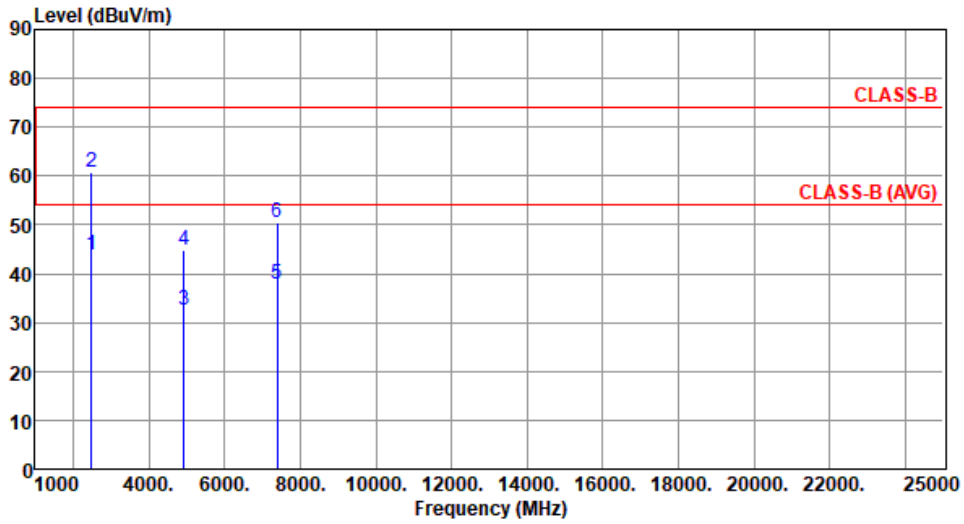


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	49.07	54.00	-4.93	51.77	-2.70	Average	227	31
2	2483.50	66.15	74.00	-7.85	68.85	-2.70	Peak	227	31
3	4924.00	33.49	54.00	-20.51	29.43	4.06	Average	136	92
4	4924.00	45.35	74.00	-28.65	41.29	4.06	Peak	136	92
5	7386.00	42.54	54.00	-11.46	33.29	9.25	Average	133	95
6	7386.00	56.84	74.00	-17.16	47.59	9.25	Peak	133	95

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	11g	Test Freq. (MHz)	2462
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

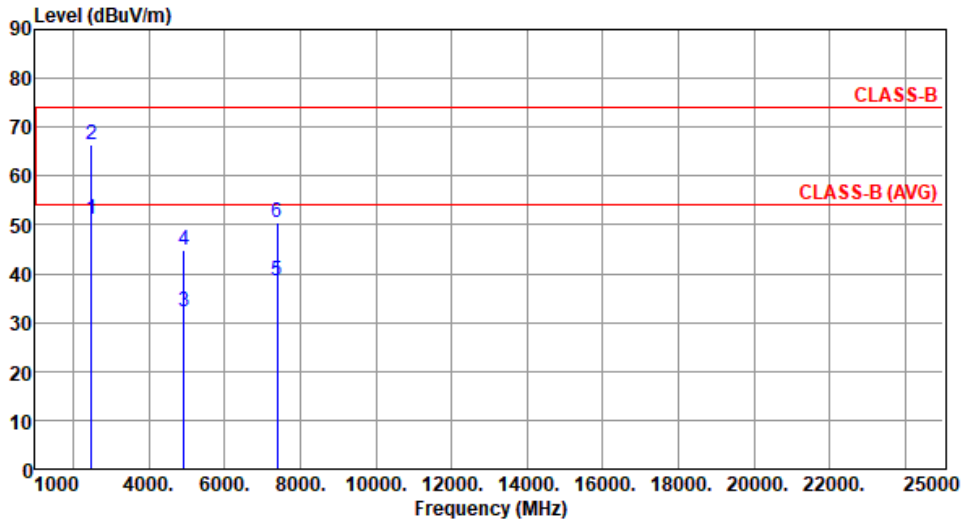


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	43.89	54.00	-10.11	46.59	-2.70	Average	300	295
2	2483.50	60.84	74.00	-13.16	63.54	-2.70	Peak	300	295
3	4924.00	32.41	54.00	-21.59	28.35	4.06	Average	100	90
4	4924.00	44.74	74.00	-29.26	40.68	4.06	Peak	100	90
5	7386.00	37.84	54.00	-16.16	28.59	9.25	Average	100	70
6	7386.00	50.41	74.00	-23.59	41.16	9.25	Peak	100	70

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	11g	Test Freq. (MHz)	2467
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

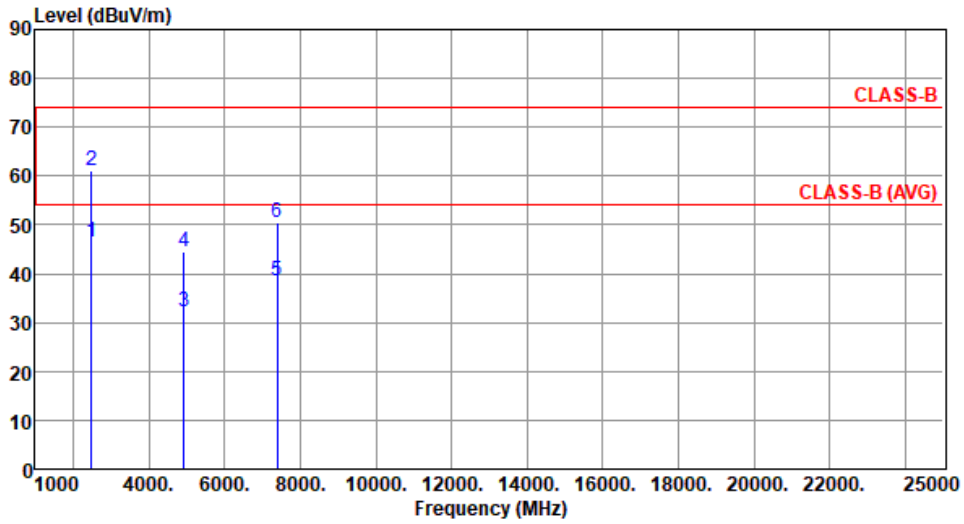


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	51.30	54.00	-2.70	54.00	-2.70	Average	225	36
2	2483.50	66.28	74.00	-7.72	68.98	-2.70	Peak	225	36
3	4934.00	32.34	54.00	-21.66	28.30	4.04	Average	100	30
4	4934.00	44.67	74.00	-29.33	40.63	4.04	Peak	100	30
5	7401.00	38.50	54.00	-15.50	29.26	9.24	Average	100	90
6	7401.00	50.48	74.00	-23.52	41.24	9.24	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	11g	Test Freq. (MHz)	2467
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

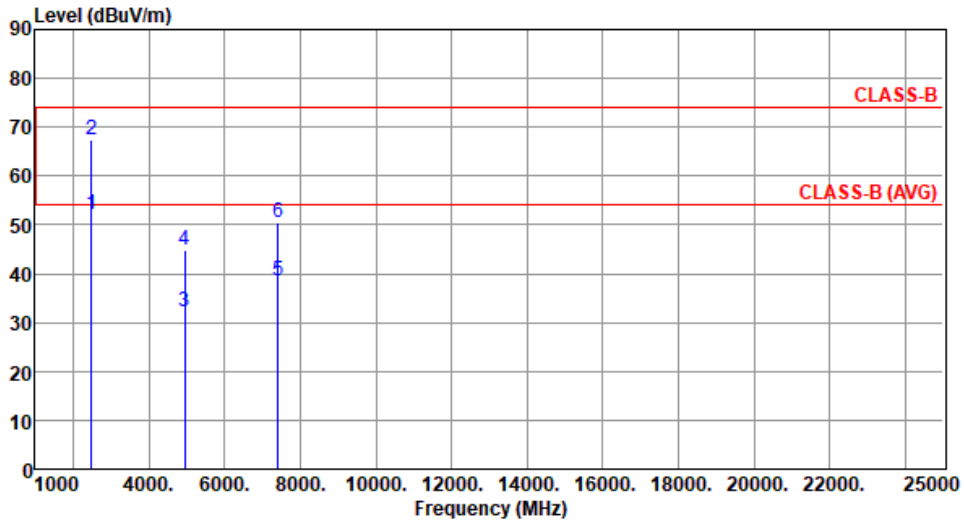


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	46.56	54.00	-7.44	49.26	-2.70	Average	302	307
2	2483.50	61.18	74.00	-12.82	63.88	-2.70	Peak	302	307
3	4934.00	32.20	54.00	-21.80	28.16	4.04	Average	100	20
4	4934.00	44.47	74.00	-29.53	40.43	4.04	Peak	100	20
5	7401.00	38.39	54.00	-15.61	29.15	9.24	Average	100	80
6	7401.00	50.35	74.00	-23.65	41.11	9.24	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	11g	Test Freq. (MHz)	2472
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

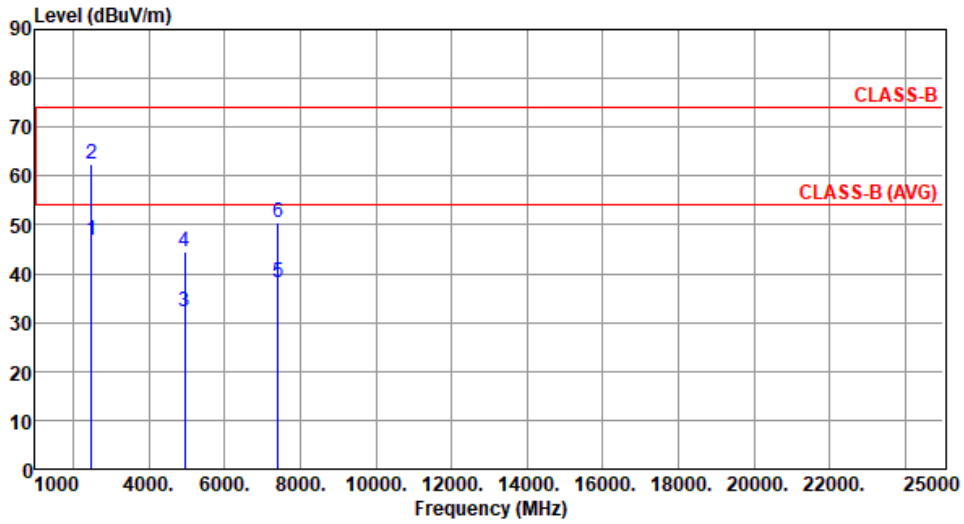


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	52.18	54.00	-1.82	54.88	-2.70	Average	227	35
2	2483.50	67.25	74.00	-6.75	69.95	-2.70	Peak	227	35
3	4944.00	32.23	54.00	-21.77	28.19	4.04	Average	100	60
4	4944.00	44.71	74.00	-29.29	40.67	4.04	Peak	100	60
5	7416.00	38.42	54.00	-15.58	29.13	9.29	Average	100	70
6	7416.00	50.63	74.00	-23.37	41.34	9.29	Peak	100	70

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	11g	Test Freq. (MHz)	2472
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65



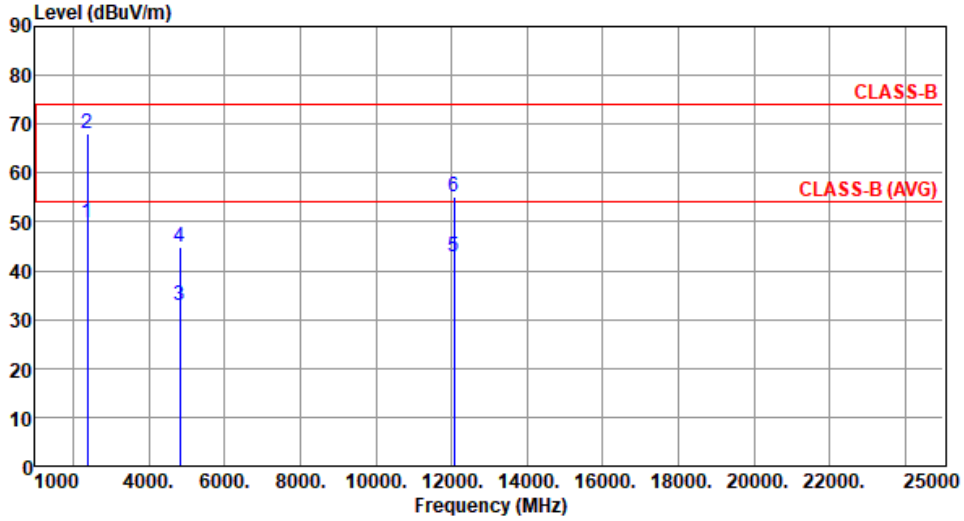
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	46.88	54.00	-7.12	49.58	-2.70	Average	306	302
2	2483.50	62.56	74.00	-11.44	65.26	-2.70	Peak	306	302
3	4944.00	32.07	54.00	-21.93	28.03	4.04	Average	100	40
4	4944.00	44.48	74.00	-29.52	40.44	4.04	Peak	100	40
5	7416.00	38.32	54.00	-15.68	29.03	9.29	Average	100	20
6	7416.00	50.42	74.00	-23.58	41.13	9.29	Peak	100	20

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).

3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal		

Test By :Akun Chung Temperature(°C):22 Humidity(%):65

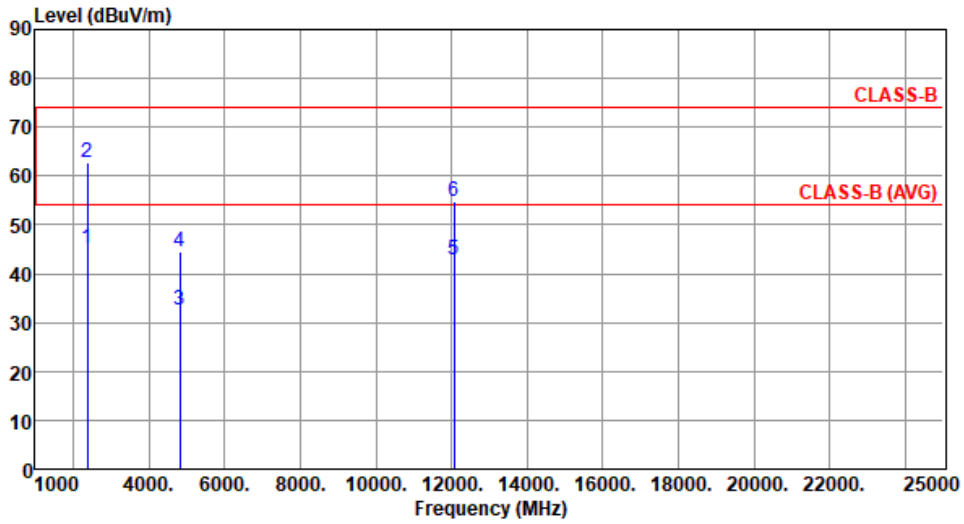


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	49.81	54.00	-4.19	52.56	-2.75	Average	240	35
2	2390.00	68.10	74.00	-5.90	70.85	-2.75	Peak	240	35
3	4824.00	32.93	54.00	-21.07	28.79	4.14	Average	155	92
4	4824.00	44.67	74.00	-29.33	40.53	4.14	Peak	155	92
5	12060.00	42.91	54.00	-11.09	29.12	13.79	Average	100	70
6	12060.00	55.16	74.00	-18.84	41.37	13.79	Peak	100	70

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)	2412
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

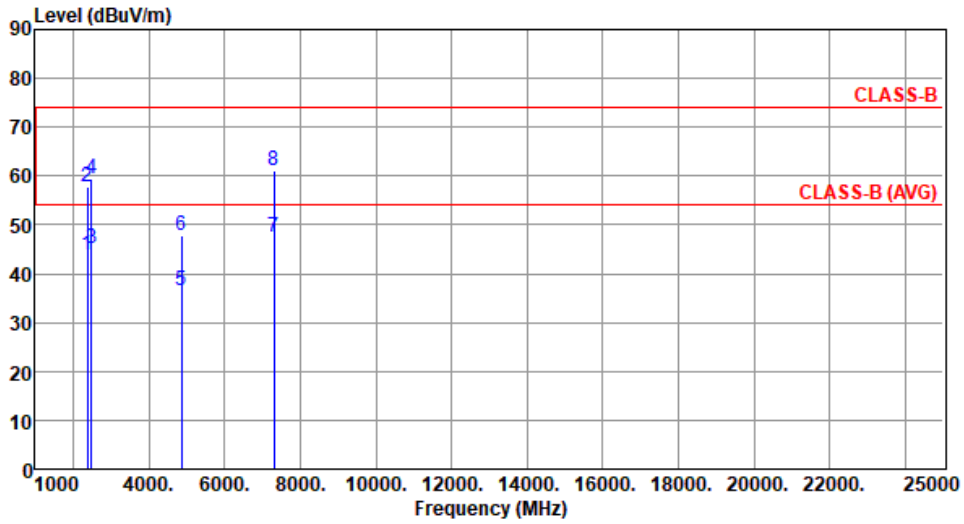


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	45.11	54.00	-8.89	47.86	-2.75	Average	300	298
2	2390.00	62.84	74.00	-11.16	65.59	-2.75	Peak	300	298
3	4824.00	32.70	54.00	-21.30	28.56	4.14	Average	100	30
4	4824.00	44.36	74.00	-29.64	40.22	4.14	Peak	100	30
5	12060.00	42.76	54.00	-11.24	28.97	13.79	Average	100	60
6	12060.00	54.90	74.00	-19.10	41.11	13.79	Peak	100	60

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)	2437
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

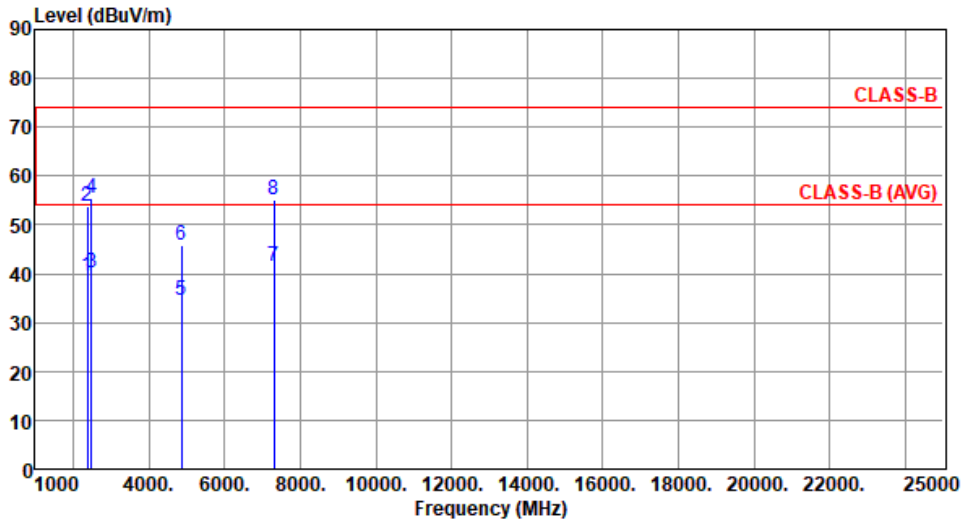


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	43.80	54.00	-10.20	46.55	-2.75	Average	255	38
2	2390.00	57.70	74.00	-16.30	60.45	-2.75	Peak	255	38
3	2483.50	45.22	54.00	-8.78	47.92	-2.70	Average	255	38
4	2483.50	59.55	74.00	-14.45	62.25	-2.70	Peak	255	38
5	4874.00	36.46	54.00	-17.54	32.33	4.13	Average	152	95
6	4874.00	47.90	74.00	-26.10	43.77	4.13	Peak	152	95
7	7311.00	47.43	54.00	-6.57	38.15	9.28	Average	133	93
8	7311.00	61.15	74.00	-12.85	51.87	9.28	Peak	133	93

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)	2437
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

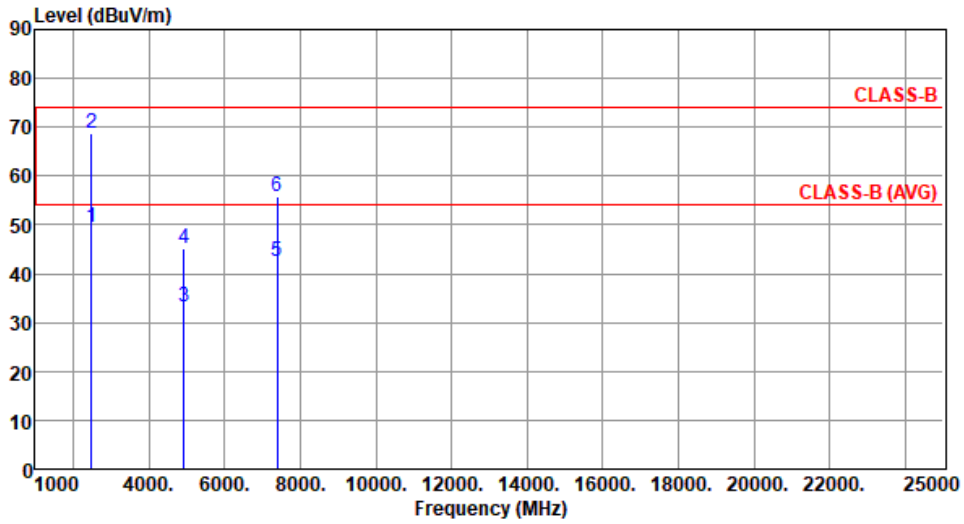


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	39.41	54.00	-14.59	42.16	-2.75	Average	300	306
2	2390.00	53.83	74.00	-20.17	56.58	-2.75	Peak	300	306
3	2483.50	40.25	54.00	-13.75	42.95	-2.70	Average	300	306
4	2483.50	55.56	74.00	-18.44	58.26	-2.70	Peak	300	306
5	4874.00	34.38	54.00	-19.62	30.25	4.13	Average	100	116
6	4874.00	45.72	74.00	-28.28	41.59	4.13	Peak	100	116
7	7311.00	41.62	54.00	-12.38	32.34	9.28	Average	100	69
8	7311.00	55.23	74.00	-18.77	45.95	9.28	Peak	100	69

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)	2462
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

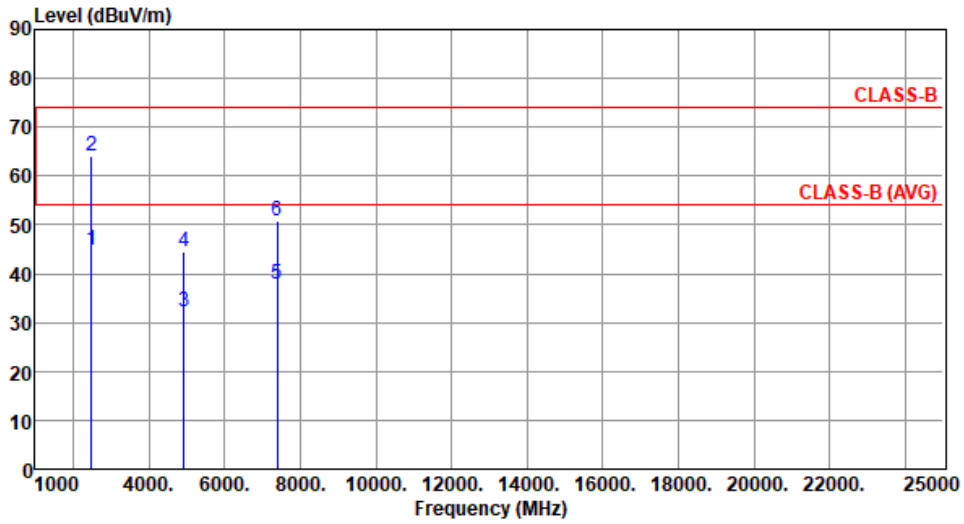


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	49.60	54.00	-4.40	52.30	-2.70	Average	228	35
2	2483.50	68.88	74.00	-5.12	71.58	-2.70	Peak	228	35
3	4924.00	33.22	54.00	-20.78	29.16	4.06	Average	155	99
4	4924.00	45.22	74.00	-28.78	41.16	4.06	Peak	155	99
5	7386.00	42.58	54.00	-11.42	33.33	9.25	Average	132	96
6	7386.00	55.92	74.00	-18.08	46.67	9.25	Peak	132	96

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)	2462
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

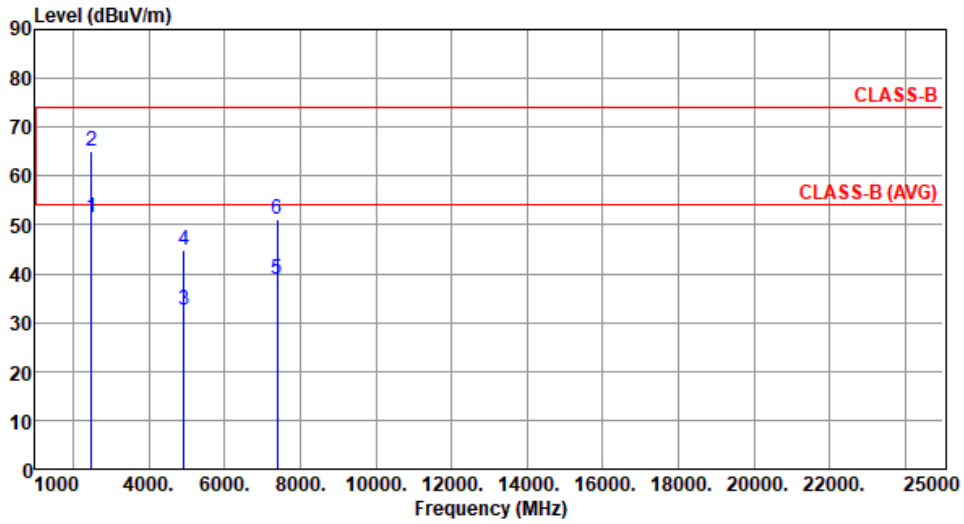


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	44.89	54.00	-9.11	47.59	-2.70	Average	295	303
2	2483.50	63.99	74.00	-10.01	66.69	-2.70	Peak	295	303
3	4924.00	32.32	54.00	-21.68	28.26	4.06	Average	100	60
4	4924.00	44.52	74.00	-29.48	40.46	4.06	Peak	100	60
5	7386.00	37.81	54.00	-16.19	28.56	9.25	Average	100	30
6	7386.00	50.80	74.00	-23.20	41.55	9.25	Peak	100	30

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)	2467
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

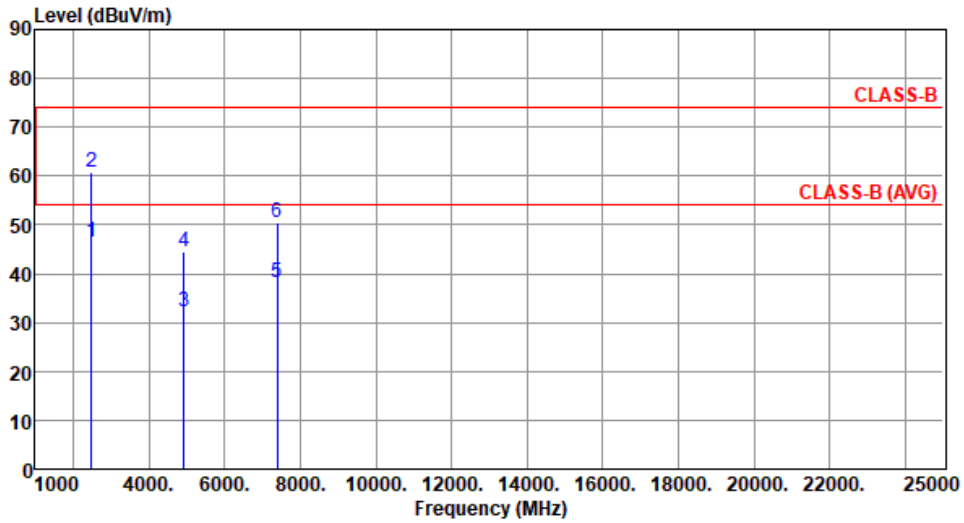


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	51.41	54.00	-2.59	54.11	-2.70	Average	224	33
2	2483.50	65.25	74.00	-8.75	67.95	-2.70	Peak	224	33
3	4934.00	32.51	54.00	-21.49	28.47	4.04	Average	100	80
4	4934.00	44.72	74.00	-29.28	40.68	4.04	Peak	100	80
5	7401.00	38.77	54.00	-15.23	29.53	9.24	Average	100	20
6	7401.00	51.13	74.00	-22.87	41.89	9.24	Peak	100	20

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)	2467
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

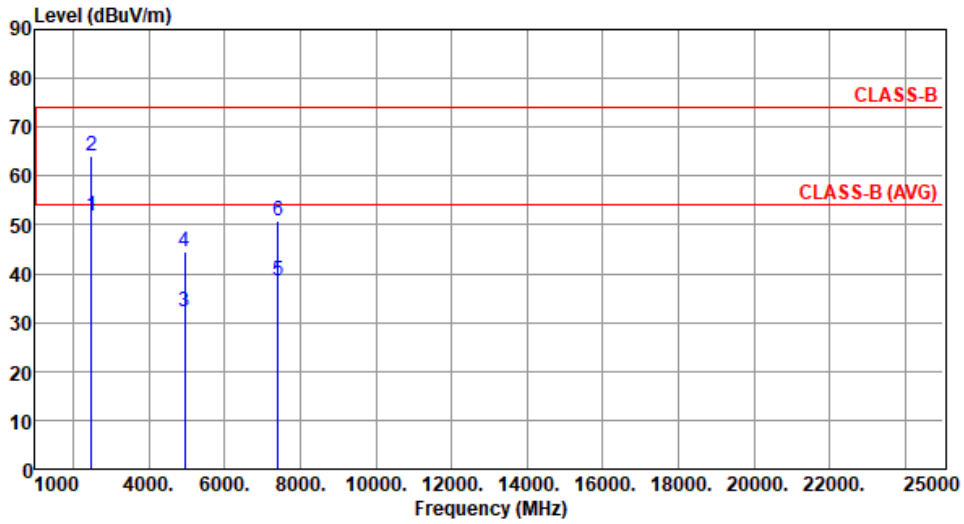


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	46.63	54.00	-7.37	49.33	-2.70	Average	306	308
2	2483.50	60.73	74.00	-13.27	63.43	-2.70	Peak	306	308
3	4934.00	32.34	54.00	-21.66	28.30	4.04	Average	100	30
4	4934.00	44.48	74.00	-29.52	40.44	4.04	Peak	100	30
5	7401.00	38.29	54.00	-15.71	29.05	9.24	Average	100	50
6	7401.00	50.52	74.00	-23.48	41.28	9.24	Peak	100	50

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)	2472
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

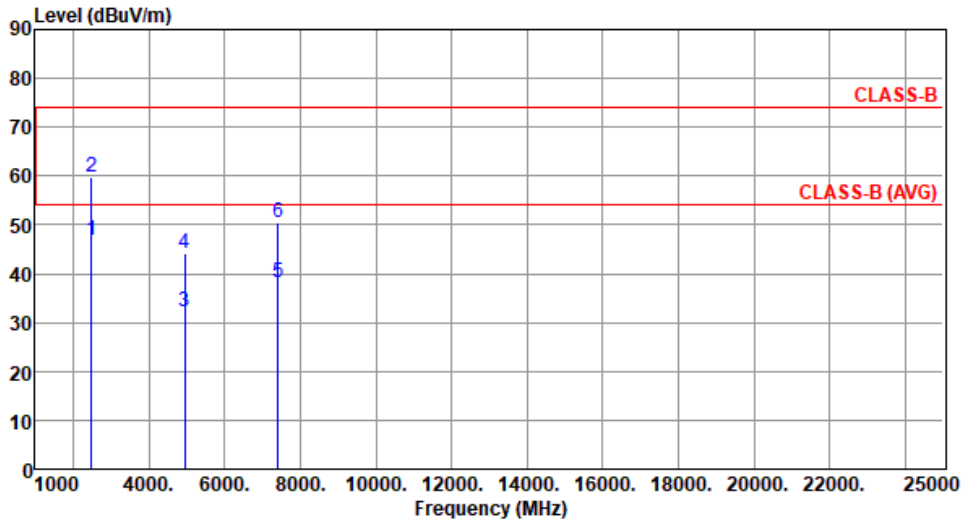


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	51.84	54.00	-2.16	54.54	-2.70	Average	229	36
2	2483.50	64.18	74.00	-9.82	66.88	-2.70	Peak	229	36
3	4944.00	32.30	54.00	-21.70	28.26	4.04	Average	100	60
4	4944.00	44.47	74.00	-29.53	40.43	4.04	Peak	100	60
5	7416.00	38.50	54.00	-15.50	29.21	9.29	Average	100	30
6	7416.00	50.84	74.00	-23.16	41.55	9.29	Peak	100	30

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)	2472
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65



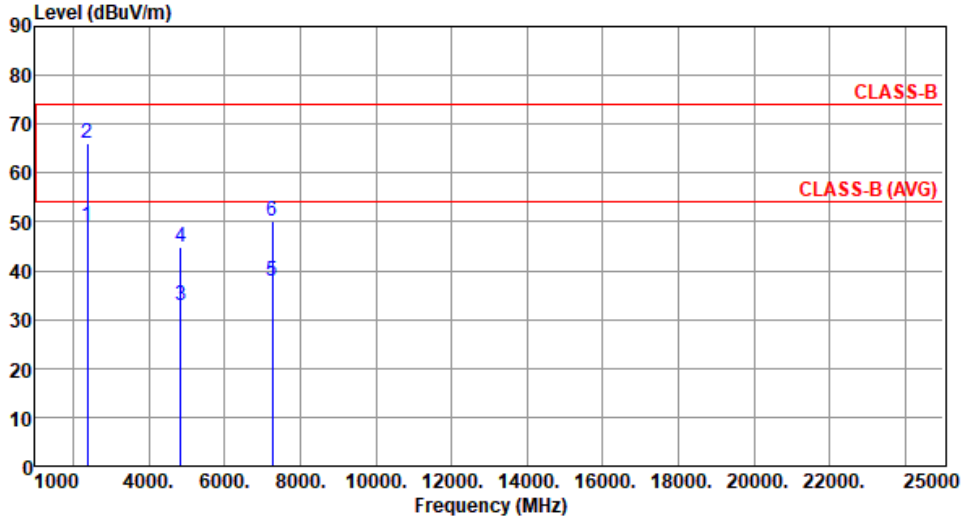
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	46.76	54.00	-7.24	49.46	-2.70	Average	303	307
2	2483.50	59.65	74.00	-14.35	62.35	-2.70	Peak	303	307
3	4944.00	32.19	54.00	-21.81	28.15	4.04	Average	100	30
4	4944.00	44.26	74.00	-29.74	40.22	4.04	Peak	100	30
5	7416.00	38.08	54.00	-15.92	28.79	9.29	Average	100	20
6	7416.00	50.42	74.00	-23.58	41.13	9.29	Peak	100	20

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).

3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

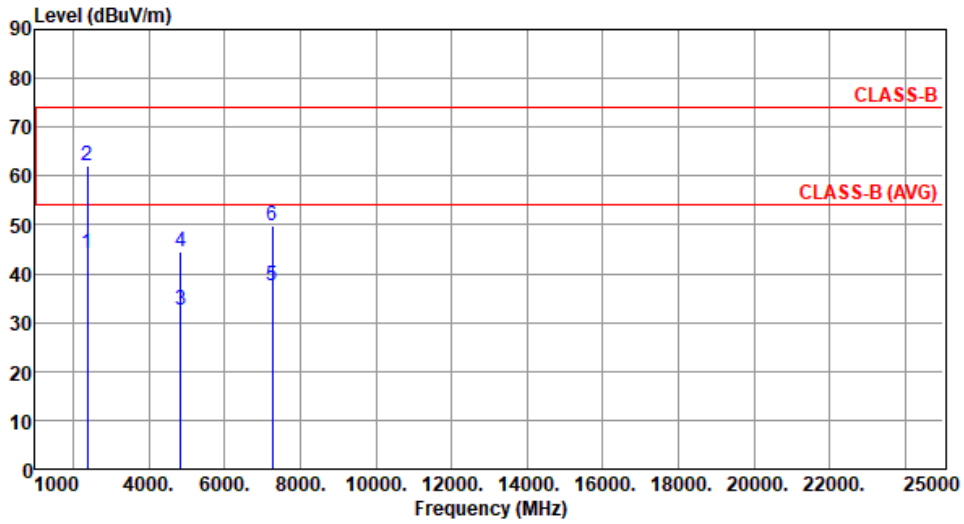


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	49.13	54.00	-4.87	51.88	-2.75	Average	264	29
2	2390.00	66.13	74.00	-7.87	68.88	-2.75	Peak	264	29
3	4844.00	32.72	54.00	-21.28	28.56	4.16	Average	100	40
4	4844.00	44.74	74.00	-29.26	40.58	4.16	Peak	100	40
5	7266.00	37.83	54.00	-16.17	28.60	9.23	Average	100	90
6	7266.00	50.13	74.00	-23.87	40.90	9.23	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	HT40	Test Freq. (MHz)	2422
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

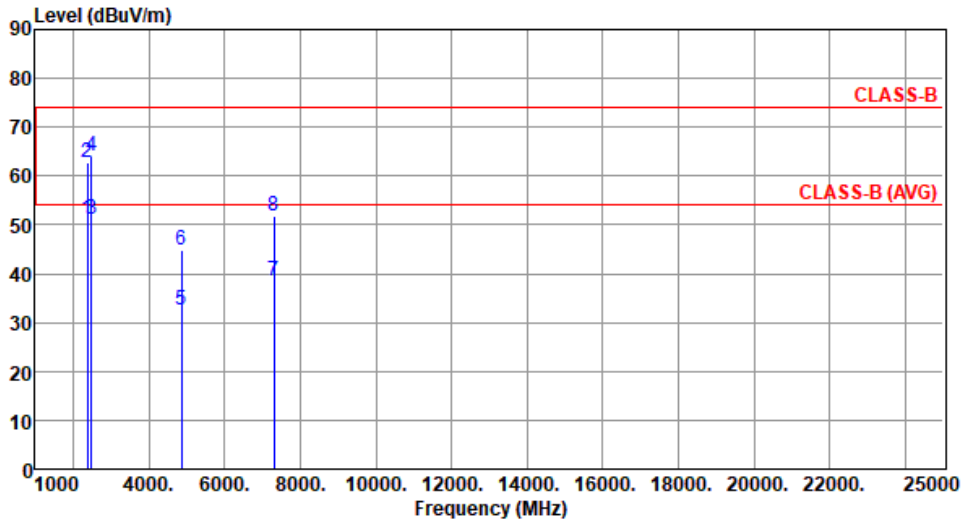


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	44.25	54.00	-9.75	47.00	-2.75	Average	314	316
2	2390.00	62.13	74.00	-11.87	64.88	-2.75	Peak	314	316
3	4844.00	32.41	54.00	-21.59	28.25	4.16	Average	100	30
4	4844.00	44.50	74.00	-29.50	40.34	4.16	Peak	100	30
5	7266.00	37.53	54.00	-16.47	28.30	9.23	Average	100	60
6	7266.00	49.82	74.00	-24.18	40.59	9.23	Peak	100	60

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	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

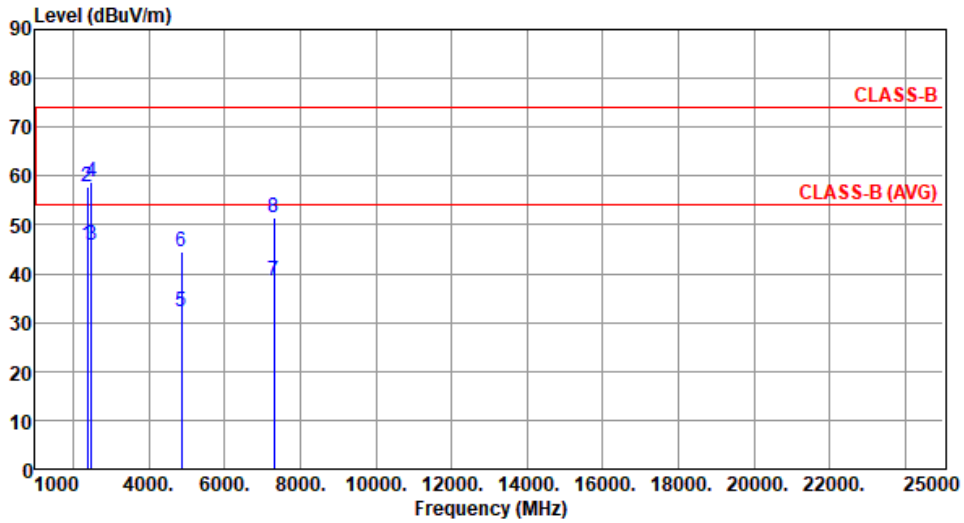


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	51.13	54.00	-2.87	53.88	-2.75	Average	259	29
2	2390.00	62.88	74.00	-11.12	65.63	-2.75	Peak	259	29
3	2483.50	51.25	54.00	-2.75	53.95	-2.70	Average	259	29
4	2483.50	64.15	74.00	-9.85	66.85	-2.70	Peak	259	29
5	4874.00	32.39	54.00	-21.61	28.26	4.13	Average	100	40
6	4874.00	44.91	74.00	-29.09	40.78	4.13	Peak	100	40
7	7311.00	38.53	54.00	-15.47	29.25	9.28	Average	100	90
8	7311.00	51.84	74.00	-22.16	42.56	9.28	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	HT40	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

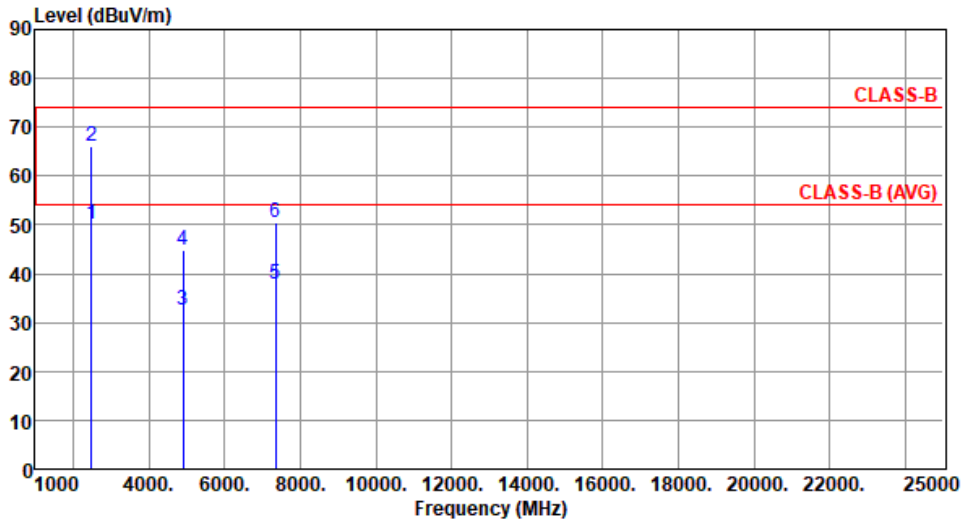


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	45.91	54.00	-8.09	48.66	-2.75	Average	303	311
2	2390.00	57.83	74.00	-16.17	60.58	-2.75	Peak	303	311
3	2483.50	45.89	54.00	-8.11	48.59	-2.70	Average	303	311
4	2483.50	58.88	74.00	-15.12	61.58	-2.70	Peak	303	311
5	4874.00	32.28	54.00	-21.72	28.15	4.13	Average	100	30
6	4874.00	44.59	74.00	-29.41	40.46	4.13	Peak	100	30
7	7311.00	38.43	54.00	-15.57	29.15	9.28	Average	100	60
8	7311.00	51.61	74.00	-22.39	42.33	9.28	Peak	100	60

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	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

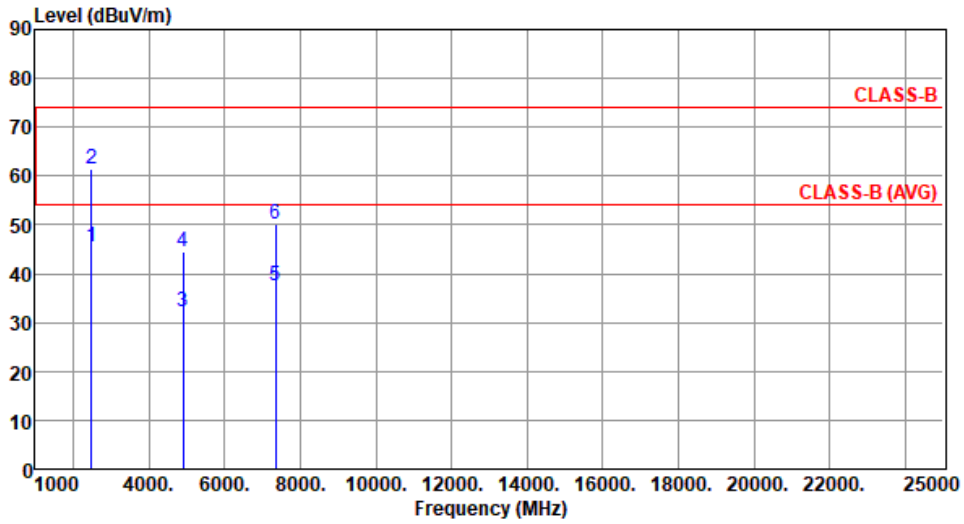


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	50.27	54.00	-3.73	52.97	-2.70	Average	258	32
2	2483.50	66.05	74.00	-7.95	68.75	-2.70	Peak	258	32
3	4904.00	32.48	54.00	-21.52	28.39	4.09	Average	100	80
4	4904.00	44.75	74.00	-29.25	40.66	4.09	Peak	100	80
5	7356.00	37.94	54.00	-16.06	28.68	9.26	Average	100	60
6	7356.00	50.59	74.00	-23.41	41.33	9.26	Peak	100	60

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	HT40	Test Freq. (MHz)	2452
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

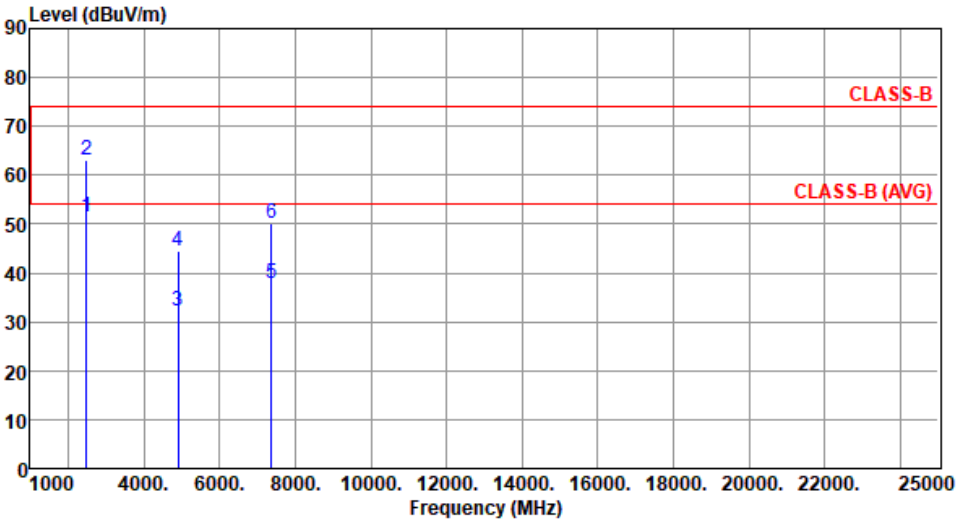


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	45.56	54.00	-8.44	48.26	-2.70	Average	305	302
2	2483.50	61.41	74.00	-12.59	64.11	-2.70	Peak	305	302
3	4904.00	32.21	54.00	-21.79	28.12	4.09	Average	100	30
4	4904.00	44.53	74.00	-29.47	40.44	4.09	Peak	100	30
5	7356.00	37.58	54.00	-16.42	28.32	9.26	Average	100	20
6	7356.00	50.02	74.00	-23.98	40.76	9.26	Peak	100	20

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	HT40	**Test Freq. (MHz)**	2457
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

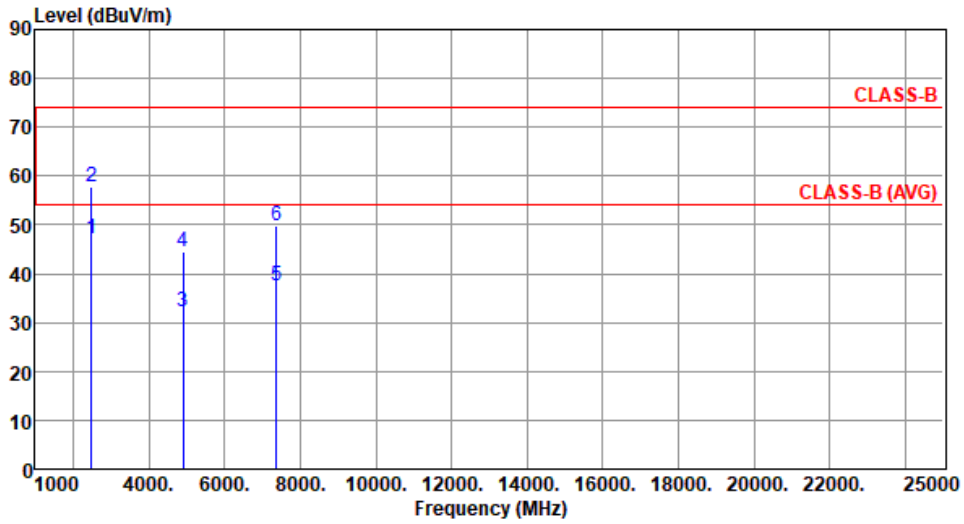


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	51.55	54.00	-2.45	54.25	-2.70	Average	229	32
2	2483.50	63.26	74.00	-10.74	65.96	-2.70	Peak	229	32
3	4914.00	32.37	54.00	-21.63	28.29	4.08	Average	100	80
4	4914.00	44.67	74.00	-29.33	40.59	4.08	Peak	100	80
5	7371.00	37.93	54.00	-16.07	28.68	9.25	Average	100	20
6	7371.00	50.14	74.00	-23.86	40.89	9.25	Peak	100	20

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	HT40	Test Freq. (MHz)	2457
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

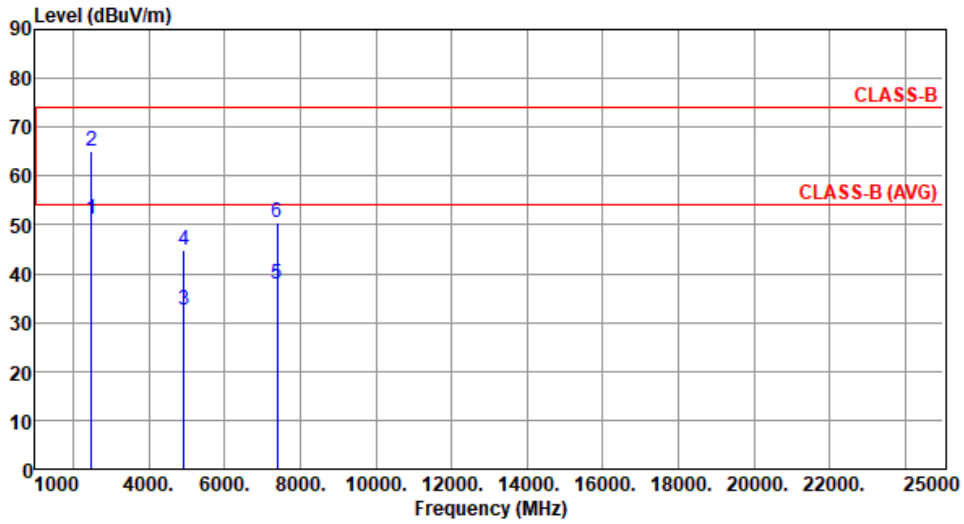


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	47.32	54.00	-6.68	50.02	-2.70	Average	306	302
2	2483.50	57.86	74.00	-16.14	60.56	-2.70	Peak	306	302
3	4914.00	32.19	54.00	-21.81	28.11	4.08	Average	100	30
4	4914.00	44.40	74.00	-29.60	40.32	4.08	Peak	100	30
5	7371.00	37.50	54.00	-16.50	28.25	9.25	Average	100	10
6	7371.00	49.79	74.00	-24.21	40.54	9.25	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	HT40	Test Freq. (MHz)	2462
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):65

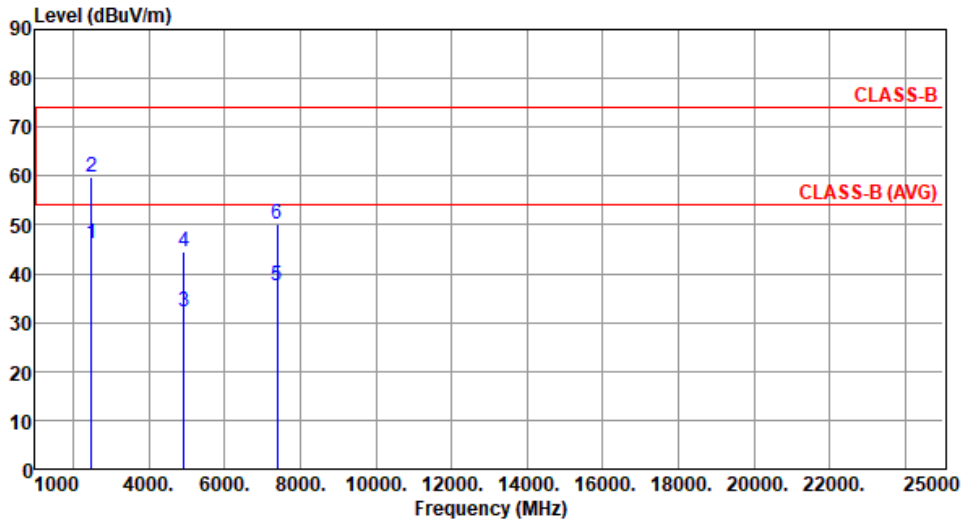


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	51.29	54.00	-2.71	53.99	-2.70	Average	263	42
2	2483.50	65.19	74.00	-8.81	67.89	-2.70	Peak	263	42
3	4924.00	32.41	54.00	-21.59	28.35	4.06	Average	100	60
4	4924.00	44.85	74.00	-29.15	40.79	4.06	Peak	100	60
5	7386.00	37.77	54.00	-16.23	28.52	9.25	Average	100	90
6	7386.00	50.38	74.00	-23.62	41.13	9.25	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	HT40	Test Freq. (MHz)	2462
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 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	2483.50	46.06	54.00	-7.94	48.76	-2.70	Average	305	301
2	2483.50	59.85	74.00	-14.15	62.55	-2.70	Peak	305	301
3	4924.00	32.19	54.00	-21.81	28.13	4.06	Average	100	20
4	4924.00	44.34	74.00	-29.66	40.28	4.06	Peak	100	20
5	7386.00	37.59	54.00	-16.41	28.34	9.25	Average	100	70
6	7386.00	50.20	74.00	-23.80	40.95	9.25	Peak	100	70

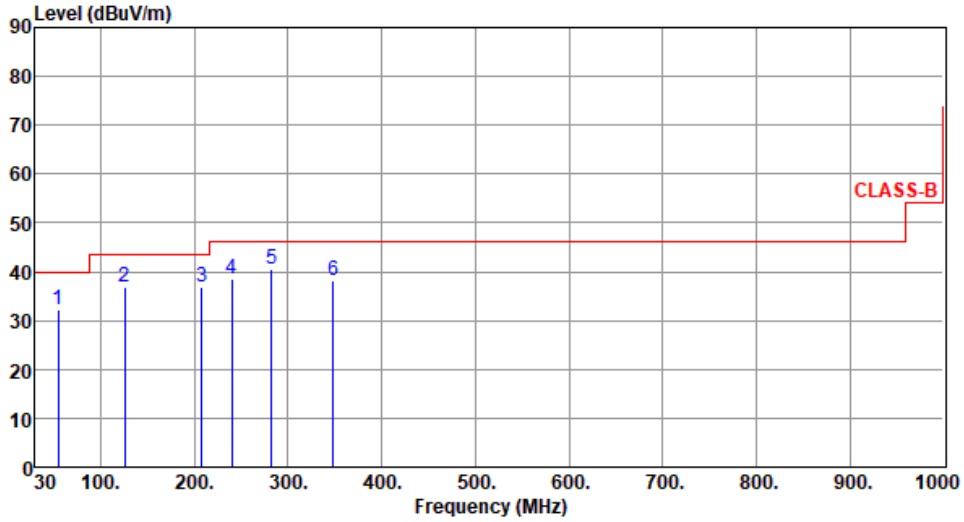
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test Configuration 2

3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):24 Humidity(%):65

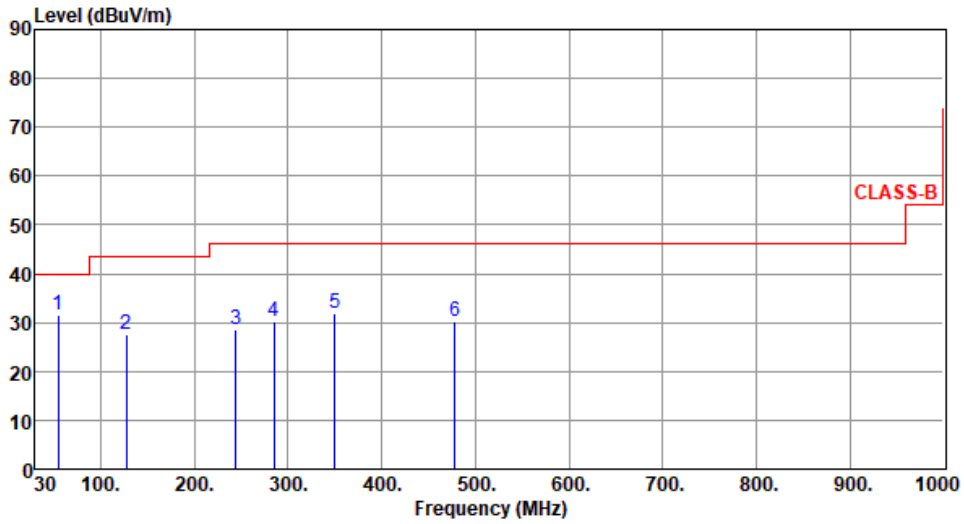


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	54.59	32.16	40.00	-7.84	41.14	-8.98	Peak	---	---
2	125.19	36.95	43.50	-6.55	47.21	-10.26	Peak	---	---
3	208.03	36.75	43.50	-6.75	48.71	-11.96	Peak	---	---
4	240.16	38.56	46.00	-7.44	48.94	-10.38	Peak	---	---
5	282.61	40.56	46.00	-5.44	49.18	-8.62	Peak	---	---
6	348.59	38.16	46.00	-7.84	45.28	-7.12	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	11g	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):24 Humidity(%):65



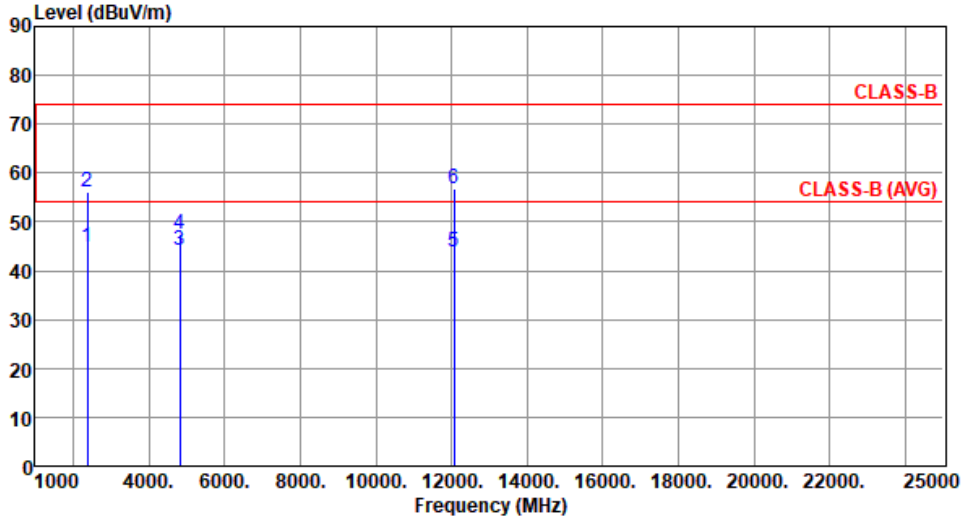
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	54.64	31.68	40.00	-8.32	40.66	-8.98	Peak	---	---
2	127.26	27.49	43.50	-16.01	37.46	-9.97	Peak	---	---
3	244.26	28.61	46.00	-17.39	38.81	-10.20	Peak	---	---
4	284.59	30.37	46.00	-15.63	38.95	-8.58	Peak	---	---
5	350.19	31.95	46.00	-14.05	39.02	-7.07	Peak	---	---
6	477.95	30.11	46.00	-15.89	33.91	-3.80	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.

3.5.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

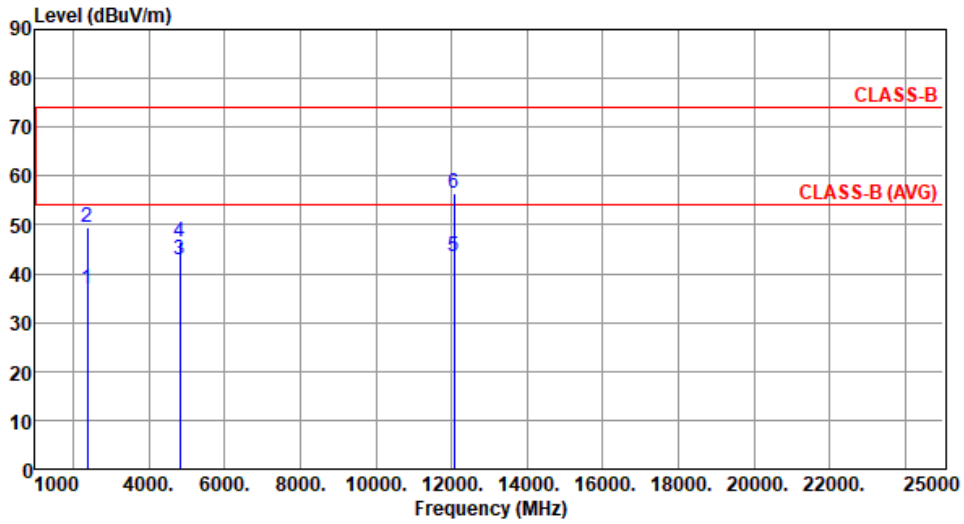


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	44.83	54.00	-9.17	47.58	-2.75	Average	101	213
2	2390.00	56.00	74.00	-18.00	58.75	-2.75	Peak	101	213
3	4824.00	44.10	54.00	-9.90	39.96	4.14	Average	101	249
4	4824.00	47.63	74.00	-26.37	43.49	4.14	Peak	101	249
5	12060.00	43.76	54.00	-10.24	29.97	13.79	Average	100	250
6	12060.00	56.66	74.00	-17.34	42.87	13.79	Peak	100	250

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	11b	Test Freq. (MHz)	2412
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

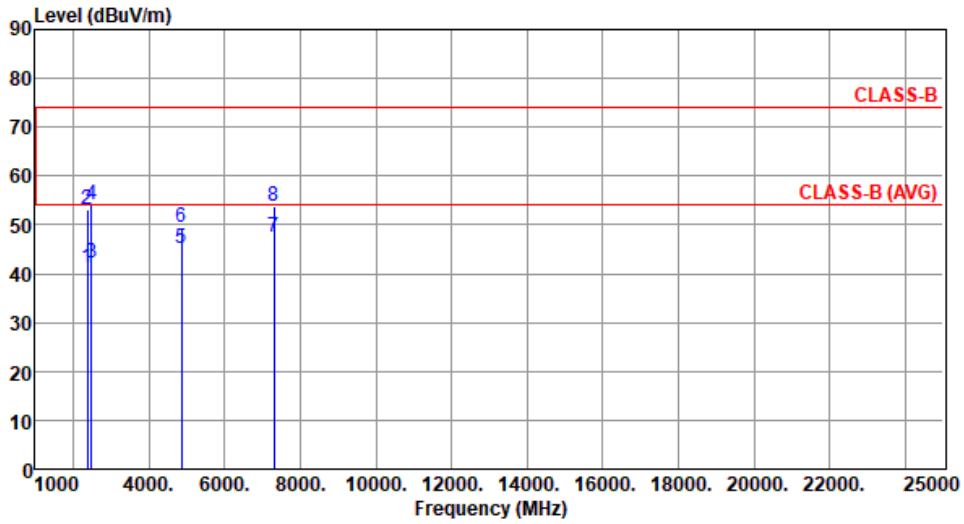


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	36.81	54.00	-17.19	39.56	-2.75	Average	100	25
2	2390.00	49.41	74.00	-24.59	52.16	-2.75	Peak	100	25
3	4824.00	42.69	54.00	-11.31	38.55	4.14	Average	100	6
4	4824.00	46.49	74.00	-27.51	42.35	4.14	Peak	100	6
5	12060.00	43.57	54.00	-10.43	29.78	13.79	Average	100	15
6	12060.00	56.53	74.00	-17.47	42.74	13.79	Peak	100	15

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	11b	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

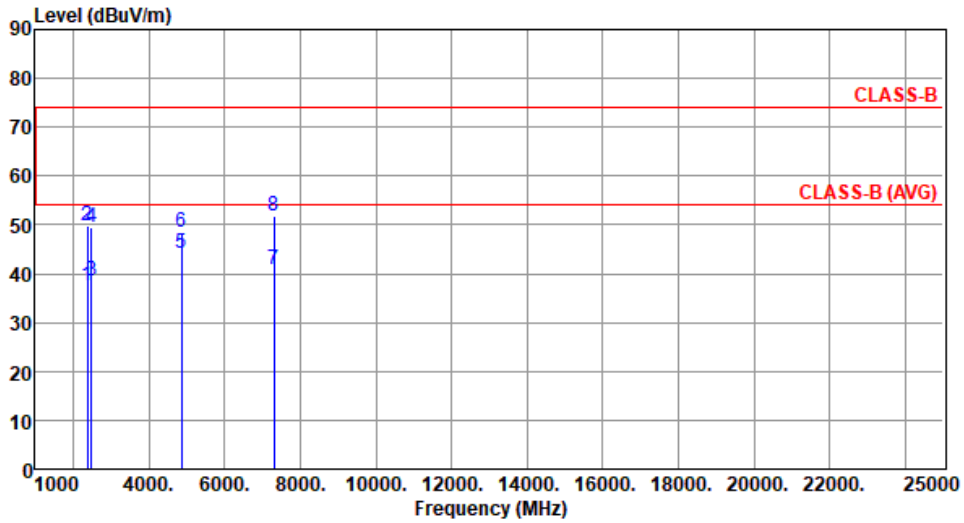


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	41.18	54.00	-12.82	43.93	-2.75	Average	206	194
2	2390.00	53.20	74.00	-20.80	55.95	-2.75	Peak	206	194
3	2483.50	42.11	54.00	-11.89	44.81	-2.70	Average	206	194
4	2483.50	54.07	74.00	-19.93	56.77	-2.70	Peak	206	194
5	4874.00	45.24	54.00	-8.76	41.11	4.13	Average	242	331
6	4874.00	49.33	74.00	-24.67	45.20	4.13	Peak	242	331
7	7311.00	47.43	54.00	-6.57	38.15	9.28	Average	201	306
8	7311.00	53.75	74.00	-20.25	44.47	9.28	Peak	201	306

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	11b	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

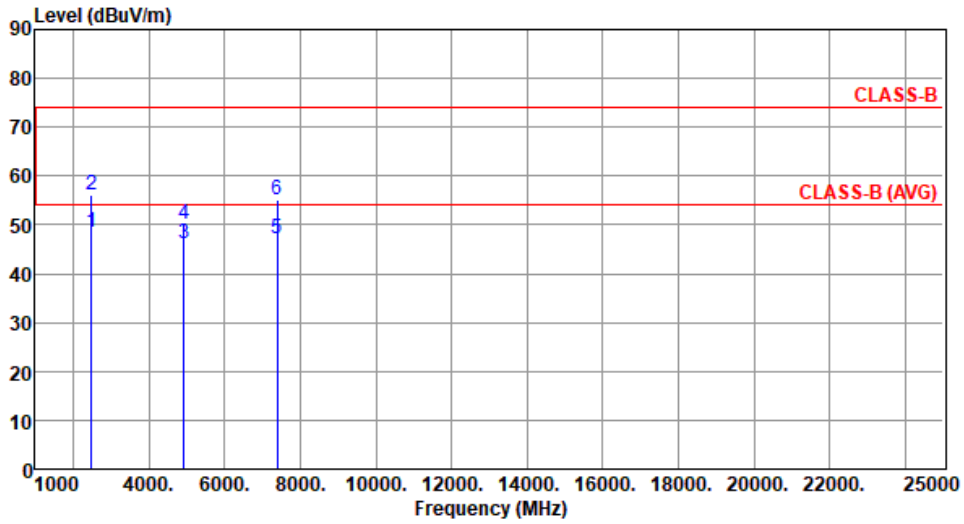


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	37.66	54.00	-16.34	40.41	-2.75	Average	100	21
2	2390.00	49.70	74.00	-24.30	52.45	-2.75	Peak	100	21
3	2483.50	38.65	54.00	-15.35	41.35	-2.70	Average	100	21
4	2483.50	49.63	74.00	-24.37	52.33	-2.70	Peak	100	21
5	4874.00	44.02	54.00	-9.98	39.89	4.13	Average	100	5
6	4874.00	48.40	74.00	-25.60	44.27	4.13	Peak	100	5
7	7311.00	40.82	54.00	-13.18	31.54	9.28	Average	189	84
8	7311.00	51.81	74.00	-22.19	42.53	9.28	Peak	189	84

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	11b	Test Freq. (MHz)	2462
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

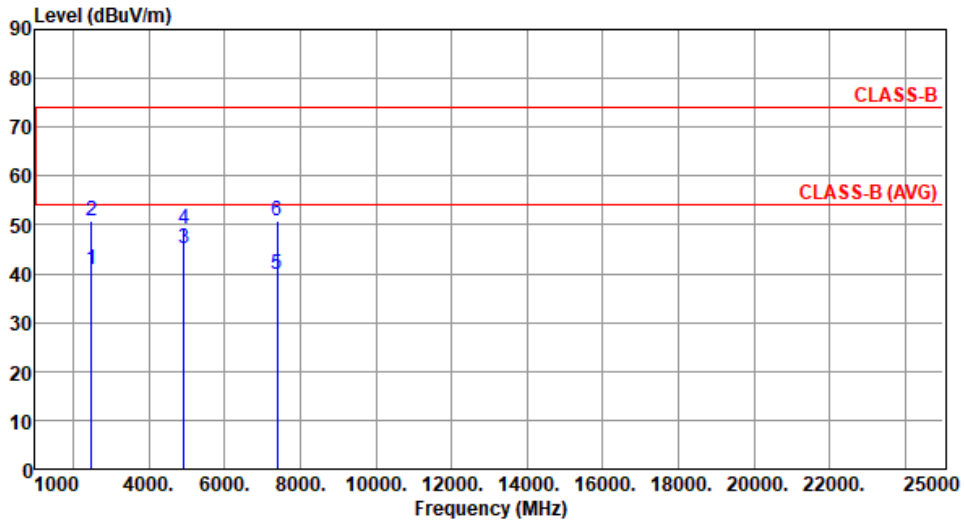


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	48.38	54.00	-5.62	51.08	-2.70	Average	384	199
2	2483.50	56.29	74.00	-17.71	58.99	-2.70	Peak	384	199
3	4924.00	46.24	54.00	-7.76	42.18	4.06	Average	252	325
4	4924.00	50.06	74.00	-23.94	46.00	4.06	Peak	252	325
5	7386.00	47.07	54.00	-6.93	37.82	9.25	Average	221	296
6	7386.00	55.24	74.00	-18.76	45.99	9.25	Peak	221	296

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	11b	Test Freq. (MHz)	2462
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

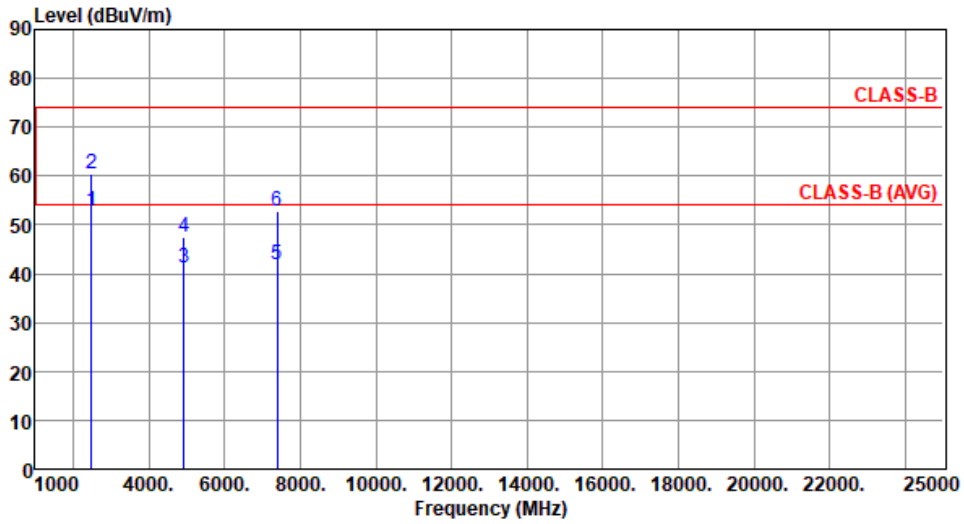


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	40.88	54.00	-13.12	43.58	-2.70	Average	100	24
2	2483.50	50.89	74.00	-23.11	53.59	-2.70	Peak	100	24
3	4924.00	45.17	54.00	-8.83	41.11	4.06	Average	100	8
4	4924.00	49.19	74.00	-24.81	45.13	4.06	Peak	100	8
5	7386.00	39.84	54.00	-14.16	30.59	9.25	Average	185	88
6	7386.00	50.85	74.00	-23.15	41.60	9.25	Peak	185	88

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	11b	Test Freq. (MHz)	2467
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

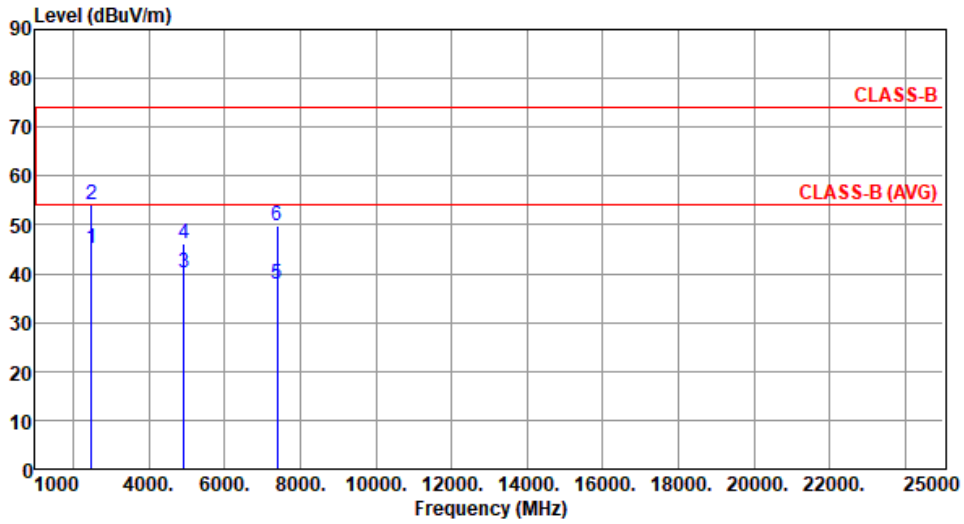


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	52.92	54.00	-1.08	55.62	-2.70	Average	107	205
2	2483.50	60.50	74.00	-13.50	63.20	-2.70	Peak	107	205
3	4934.00	41.31	54.00	-12.69	37.27	4.04	Average	255	316
4	4934.00	47.64	74.00	-26.36	43.60	4.04	Peak	255	316
5	7401.00	41.70	54.00	-12.30	32.46	9.24	Average	222	298
6	7401.00	52.79	74.00	-21.21	43.55	9.24	Peak	222	298

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	11b	Test Freq. (MHz)	2467
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

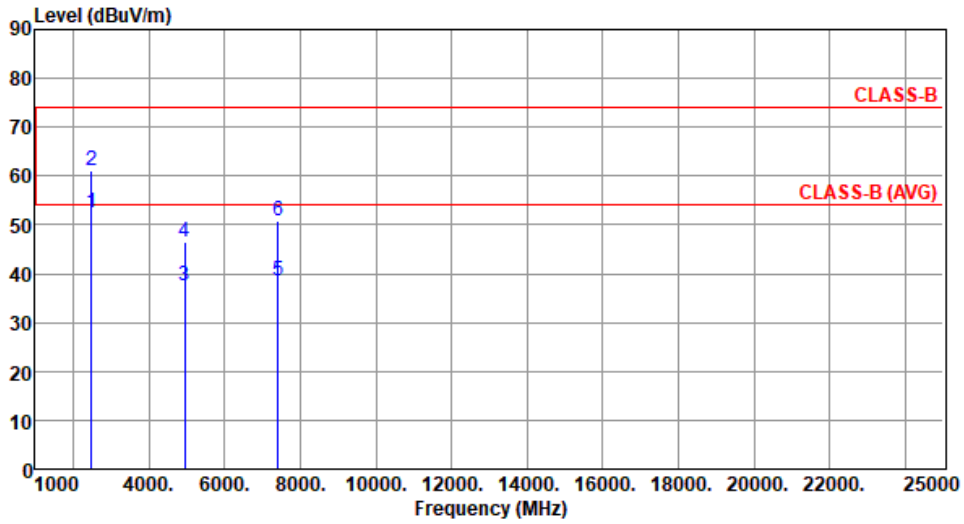


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	45.16	54.00	-8.84	47.86	-2.70	Average	100	23
2	2483.50	54.19	74.00	-19.81	56.89	-2.70	Peak	100	23
3	4934.00	40.20	54.00	-13.80	36.16	4.04	Average	100	6
4	4934.00	46.21	74.00	-27.79	42.17	4.04	Peak	100	6
5	7401.00	37.83	54.00	-16.17	28.59	9.24	Average	100	80
6	7401.00	49.83	74.00	-24.17	40.59	9.24	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	11b	Test Freq. (MHz)	2472
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

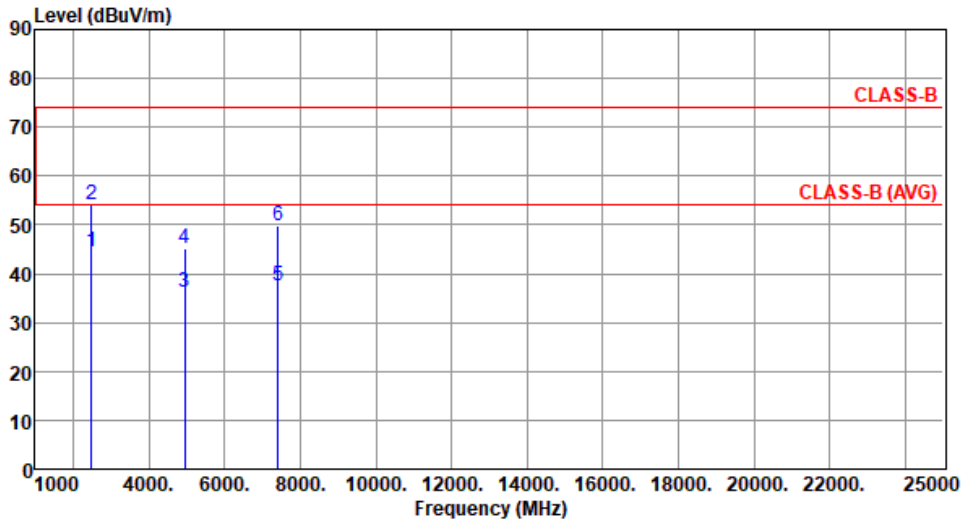


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	52.60	54.00	-1.40	55.30	-2.70	Average	114	203
2	2483.50	61.18	74.00	-12.82	63.88	-2.70	Peak	114	203
3	4944.00	37.60	54.00	-16.40	33.56	4.04	Average	251	311
4	4944.00	46.47	74.00	-27.53	42.43	4.04	Peak	251	311
5	7416.00	38.55	54.00	-15.45	29.26	9.29	Average	100	295
6	7416.00	50.84	74.00	-23.16	41.55	9.29	Peak	100	295

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	11b	Test Freq. (MHz)	2472
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68



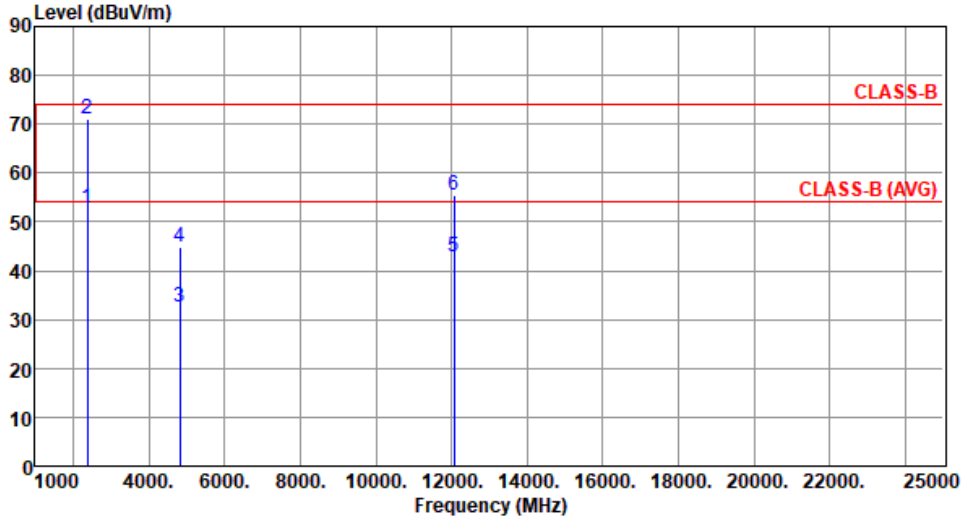
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	44.56	54.00	-9.44	47.26	-2.70	Average	100	22
2	2483.50	54.19	74.00	-19.81	56.89	-2.70	Peak	100	22
3	4944.00	36.30	54.00	-17.70	32.26	4.04	Average	100	8
4	4944.00	45.33	74.00	-28.67	41.29	4.04	Peak	100	8
5	7416.00	37.42	54.00	-16.58	28.13	9.29	Average	100	30
6	7416.00	49.96	74.00	-24.04	40.67	9.29	Peak	100	30

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).

3.5.11 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		

Test By :Akun Chung Temperature(°C):23 Humidity(%):68

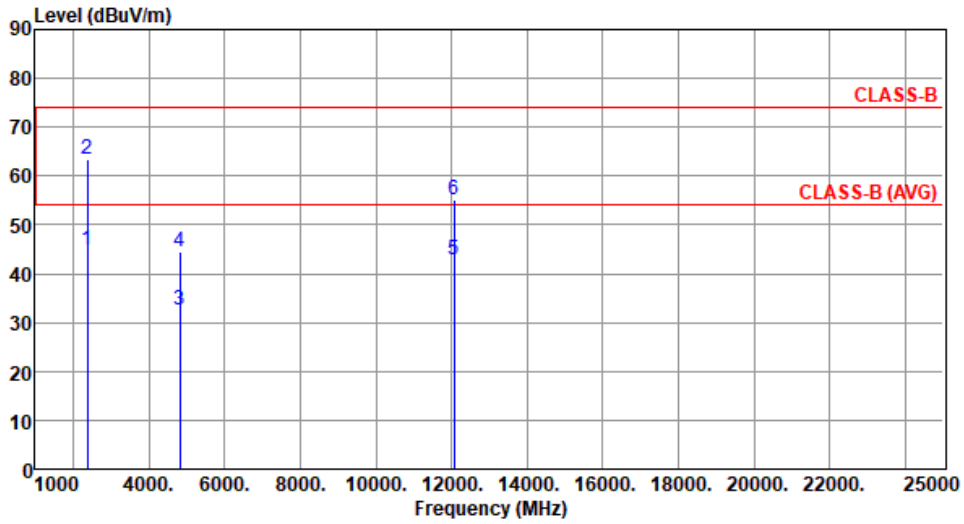


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	52.69	54.00	-1.31	55.44	-2.75	Average	144	198
2	2390.00	71.23	74.00	-2.77	73.98	-2.75	Peak	144	198
3	4824.00	32.70	54.00	-21.30	28.56	4.14	Average	100	40
4	4824.00	44.83	74.00	-29.17	40.69	4.14	Peak	100	40
5	12060.00	42.93	54.00	-11.07	29.14	13.79	Average	100	70
6	12060.00	55.37	74.00	-18.63	41.58	13.79	Peak	100	70

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	11g	Test Freq. (MHz)	2412
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

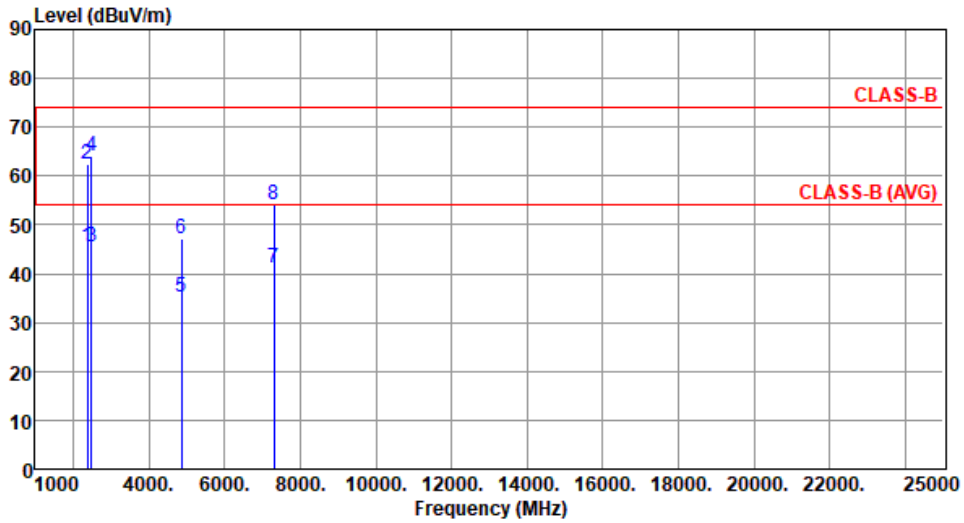


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	44.84	54.00	-9.16	47.59	-2.75	Average	100	27
2	2390.00	63.40	74.00	-10.60	66.15	-2.75	Peak	100	27
3	4824.00	32.39	54.00	-21.61	28.25	4.14	Average	100	30
4	4824.00	44.59	74.00	-29.41	40.45	4.14	Peak	100	30
5	12060.00	42.80	54.00	-11.20	29.01	13.79	Average	100	30
6	12060.00	55.20	74.00	-18.80	41.41	13.79	Peak	100	30

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	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

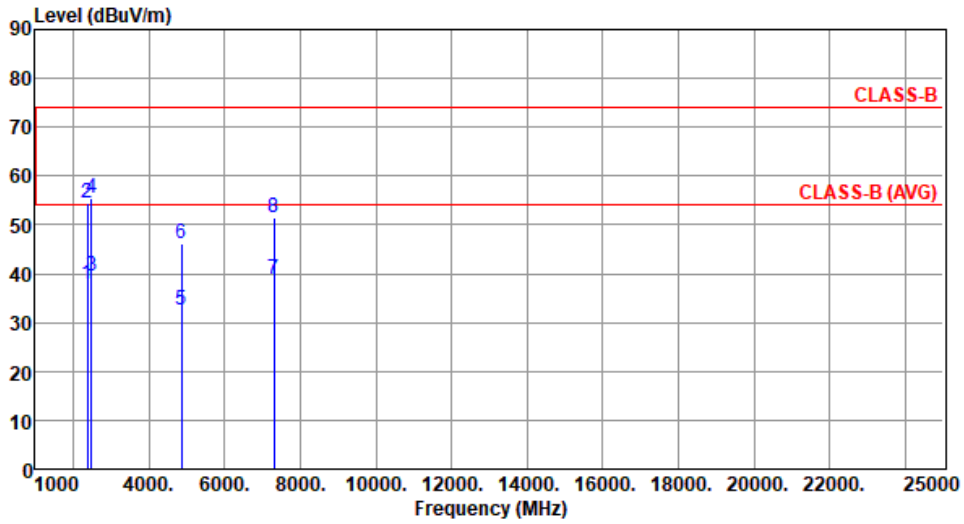


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	45.35	54.00	-8.65	48.10	-2.75	Average	287	201
2	2390.00	62.46	74.00	-11.54	65.21	-2.75	Peak	287	201
3	2483.50	45.35	54.00	-8.65	48.05	-2.70	Average	287	201
4	2483.50	63.93	74.00	-10.07	66.63	-2.70	Peak	287	201
5	4874.00	35.09	54.00	-18.91	30.96	4.13	Average	227	331
6	4874.00	47.22	74.00	-26.78	43.09	4.13	Peak	227	331
7	7311.00	41.11	54.00	-12.89	31.83	9.28	Average	213	299
8	7311.00	54.19	74.00	-19.81	44.91	9.28	Peak	213	299

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	11g	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

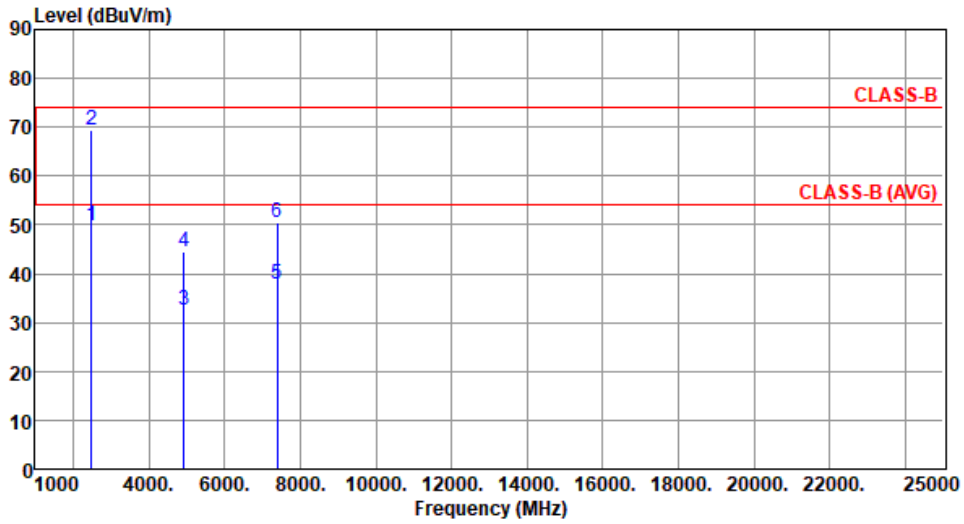


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	37.83	54.00	-16.17	40.58	-2.75	Average	100	24
2	2390.00	54.40	74.00	-19.60	57.15	-2.75	Peak	100	24
3	2483.50	39.45	54.00	-14.55	42.15	-2.70	Average	100	24
4	2483.50	55.59	74.00	-18.41	58.29	-2.70	Peak	100	24
5	4874.00	32.58	54.00	-21.42	28.45	4.13	Average	100	10
6	4874.00	46.32	74.00	-27.68	42.19	4.13	Peak	100	10
7	7311.00	38.82	54.00	-15.18	29.54	9.28	Average	100	15
8	7311.00	51.44	74.00	-22.56	42.16	9.28	Peak	100	15

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	11g	Test Freq. (MHz)	2462
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

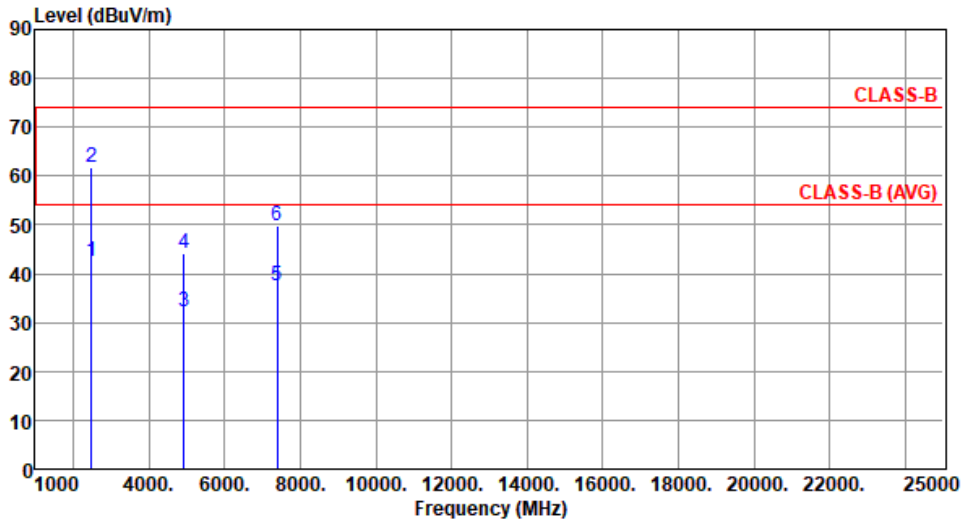


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	49.90	54.00	-4.10	52.60	-2.70	Average	112	207
2	2483.50	69.55	74.00	-4.45	72.25	-2.70	Peak	112	207
3	4924.00	32.65	54.00	-21.35	28.59	4.06	Average	100	20
4	4924.00	44.61	74.00	-29.39	40.55	4.06	Peak	100	20
5	7386.00	37.84	54.00	-16.16	28.59	9.25	Average	100	60
6	7386.00	50.53	74.00	-23.47	41.28	9.25	Peak	100	60

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	11g	Test Freq. (MHz)	2462
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

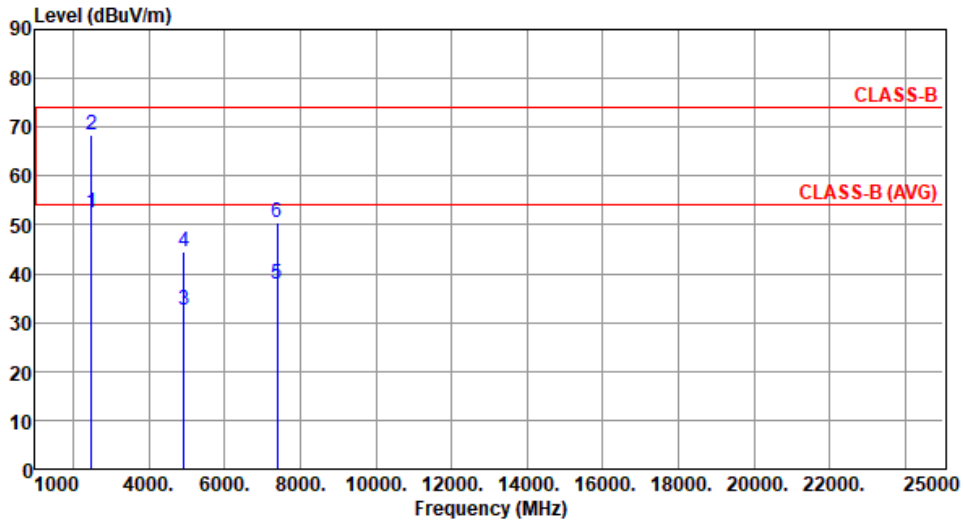


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	42.45	54.00	-11.55	45.15	-2.70	Average	100	27
2	2483.50	61.89	74.00	-12.11	64.59	-2.70	Peak	100	27
3	4924.00	32.31	54.00	-21.69	28.25	4.06	Average	100	30
4	4924.00	44.31	74.00	-29.69	40.25	4.06	Peak	100	30
5	7386.00	37.62	54.00	-16.38	28.37	9.25	Average	100	80
6	7386.00	49.92	74.00	-24.08	40.67	9.25	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	11g	Test Freq. (MHz)	2467
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

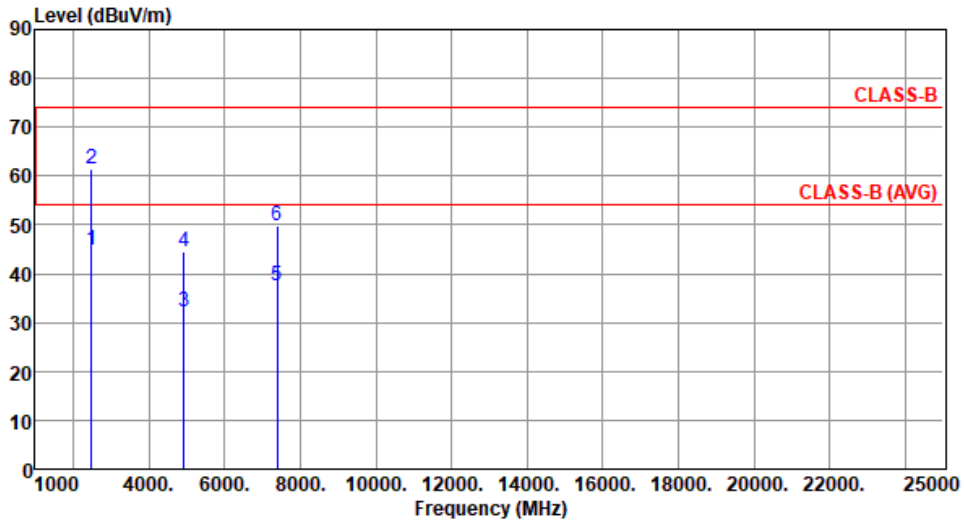


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	52.58	54.00	-1.42	55.28	-2.70	Average	104	206
2	2483.50	68.38	74.00	-5.62	71.08	-2.70	Peak	104	206
3	4934.00	32.39	54.00	-21.61	28.35	4.04	Average	100	30
4	4934.00	44.44	74.00	-29.56	40.40	4.04	Peak	100	30
5	7401.00	37.70	54.00	-16.30	28.46	9.24	Average	100	40
6	7401.00	50.36	74.00	-23.64	41.12	9.24	Peak	100	40

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	11g	Test Freq. (MHz)	2467
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

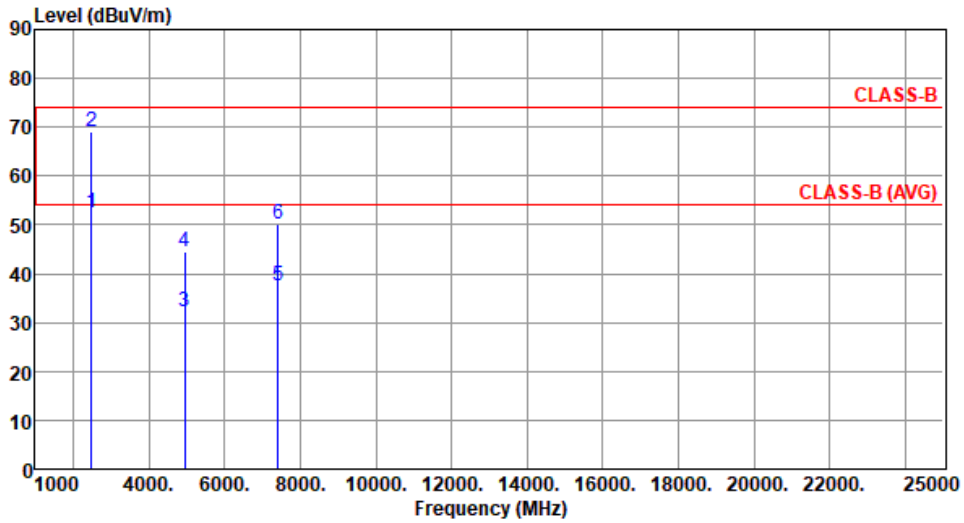


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	44.89	54.00	-9.11	47.59	-2.70	Average	100	24
2	2483.50	61.56	74.00	-12.44	64.26	-2.70	Peak	100	24
3	4934.00	32.20	54.00	-21.80	28.16	4.04	Average	100	20
4	4934.00	44.34	74.00	-29.66	40.30	4.04	Peak	100	20
5	7401.00	37.46	54.00	-16.54	28.22	9.24	Average	100	90
6	7401.00	49.90	74.00	-24.10	40.66	9.24	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	11g	Test Freq. (MHz)	2472
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

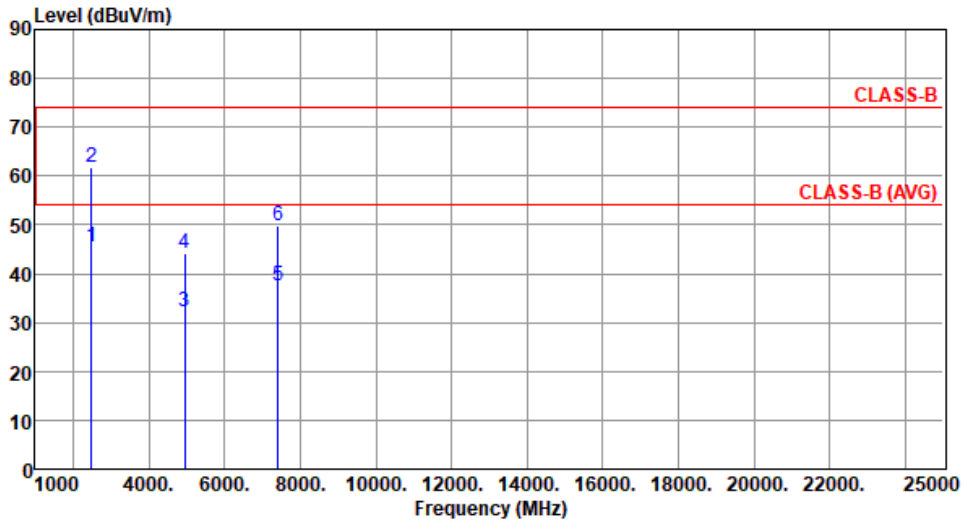


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	52.60	54.00	-1.40	55.30	-2.70	Average	241	198
2	2483.50	69.19	74.00	-4.81	71.89	-2.70	Peak	241	198
3	4944.00	32.26	54.00	-21.74	28.22	4.04	Average	100	20
4	4944.00	44.37	74.00	-29.63	40.33	4.04	Peak	100	20
5	7416.00	37.63	54.00	-16.37	28.34	9.29	Average	100	80
6	7416.00	50.08	74.00	-23.92	40.79	9.29	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	11g	Test Freq. (MHz)	2472
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68



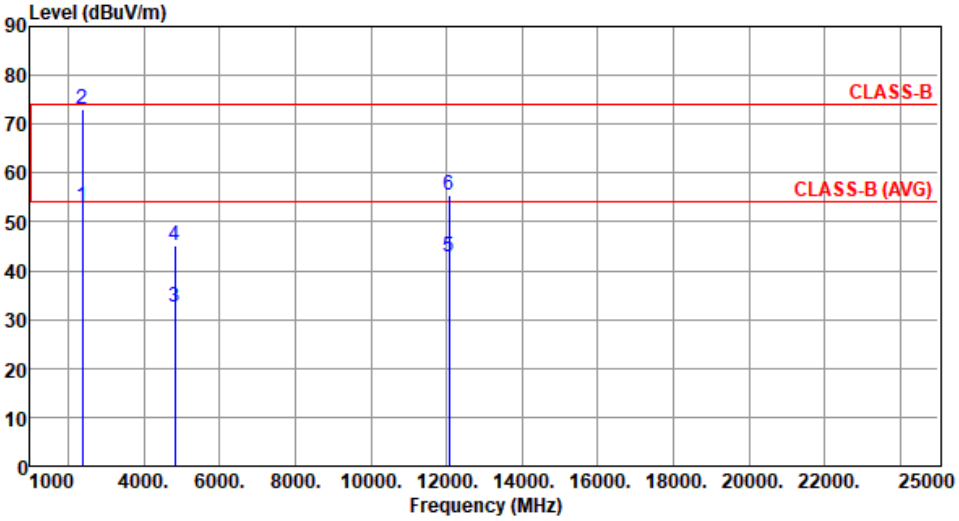
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	45.46	54.00	-8.54	48.16	-2.70	Average	106	28
2	2483.50	61.85	74.00	-12.15	64.55	-2.70	Peak	106	28
3	4944.00	32.22	54.00	-21.78	28.18	4.04	Average	100	10
4	4944.00	44.23	74.00	-29.77	40.19	4.04	Peak	100	10
5	7416.00	37.56	54.00	-16.44	28.27	9.29	Average	100	60
6	7416.00	49.83	74.00	-24.17	40.54	9.29	Peak	100	60

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).

3.5.12 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

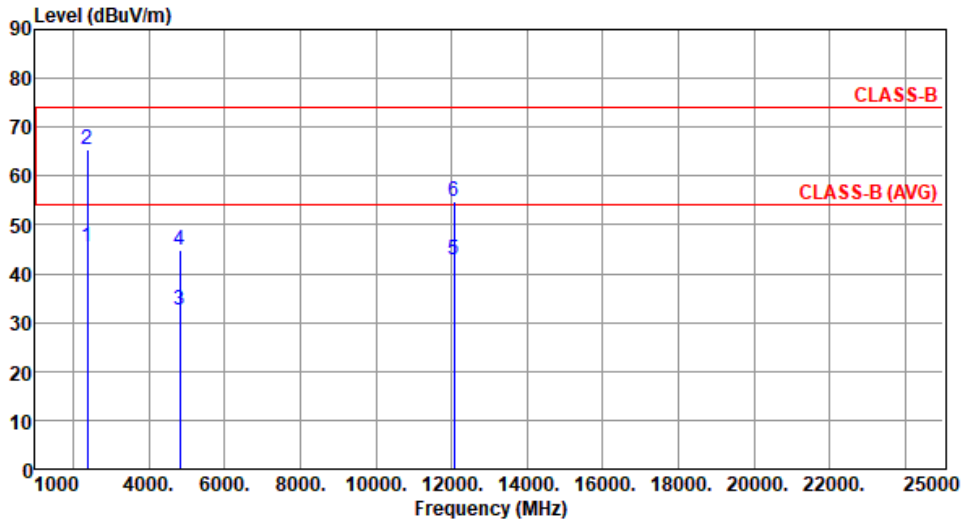


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	52.99	54.00	-1.01	55.74	-2.75	Average	257	203
2	2390.00	72.95	74.00	-1.05	75.70	-2.75	Peak	257	203
3	4824.00	32.60	54.00	-21.40	28.46	4.14	Average	100	50
4	4824.00	45.30	74.00	-28.70	41.16	4.14	Peak	100	50
5	12060.00	42.91	54.00	-11.09	29.12	13.79	Average	100	90
6	12060.00	55.45	74.00	-18.55	41.66	13.79	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	HT20	Test Freq. (MHz)	2412
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

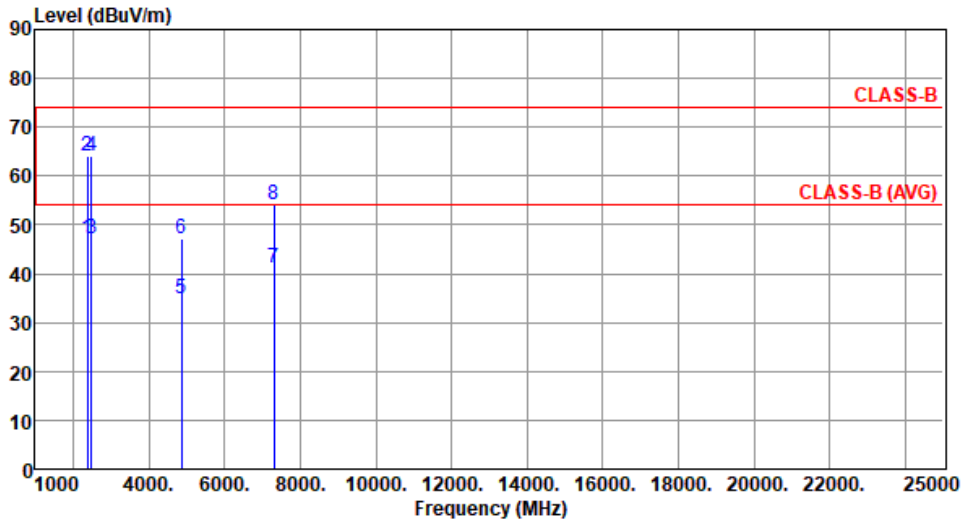


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	45.51	54.00	-8.49	48.26	-2.75	Average	100	23
2	2390.00	65.58	74.00	-8.42	68.33	-2.75	Peak	100	23
3	4824.00	32.40	54.00	-21.60	28.26	4.14	Average	100	30
4	4824.00	44.73	74.00	-29.27	40.59	4.14	Peak	100	30
5	12060.00	42.80	54.00	-11.20	29.01	13.79	Average	100	30
6	12060.00	54.93	74.00	-19.07	41.14	13.79	Peak	100	30

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)	2437
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

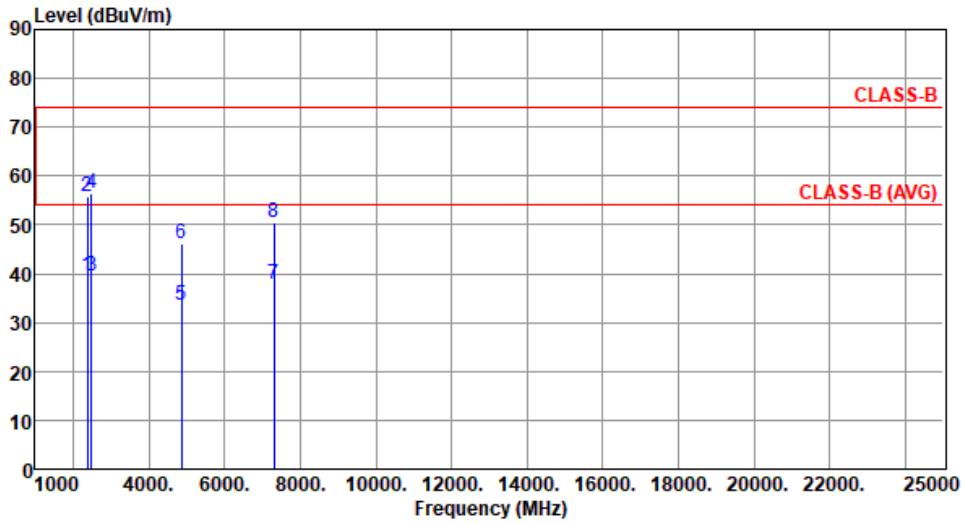


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	47.25	54.00	-6.75	50.00	-2.75	Average	284	197
2	2390.00	64.00	74.00	-10.00	66.75	-2.75	Peak	284	197
3	2483.50	47.28	54.00	-6.72	49.98	-2.70	Average	284	197
4	2483.50	64.12	74.00	-9.88	66.82	-2.70	Peak	284	197
5	4874.00	35.01	54.00	-18.99	30.88	4.13	Average	225	332
6	4874.00	47.08	74.00	-26.92	42.95	4.13	Peak	225	332
7	7311.00	41.05	54.00	-12.95	31.77	9.28	Average	220	302
8	7311.00	54.13	74.00	-19.87	44.85	9.28	Peak	220	302

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)	2437
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

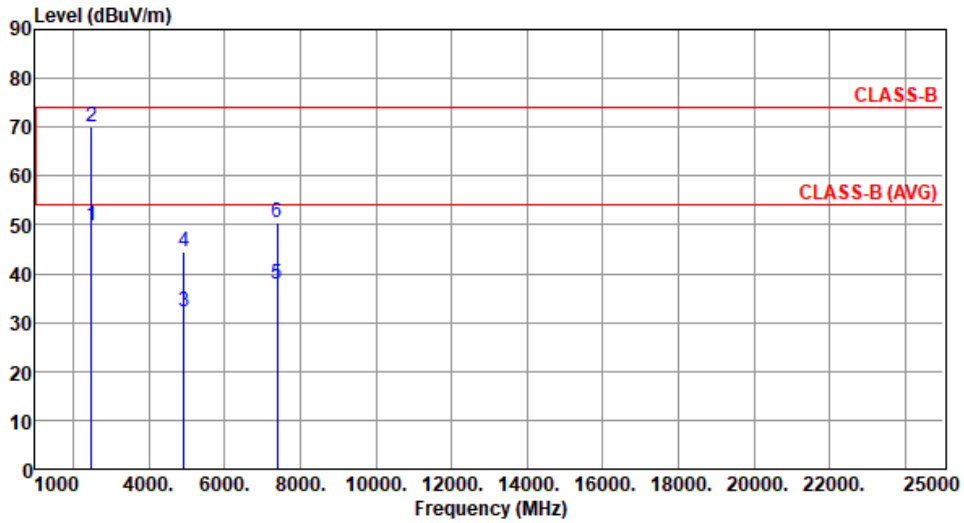


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	39.61	54.00	-14.39	42.36	-2.75	Average	100	23
2	2390.00	55.83	74.00	-18.17	58.58	-2.75	Peak	100	23
3	2483.50	39.41	54.00	-14.59	42.11	-2.70	Average	100	23
4	2483.50	56.56	74.00	-17.44	59.26	-2.70	Peak	100	23
5	4874.00	33.38	54.00	-20.62	29.25	4.13	Average	100	10
6	4874.00	46.01	74.00	-27.99	41.88	4.13	Peak	100	10
7	7311.00	37.87	54.00	-16.13	28.59	9.28	Average	100	70
8	7311.00	50.59	74.00	-23.41	41.31	9.28	Peak	100	70

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)	2462
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

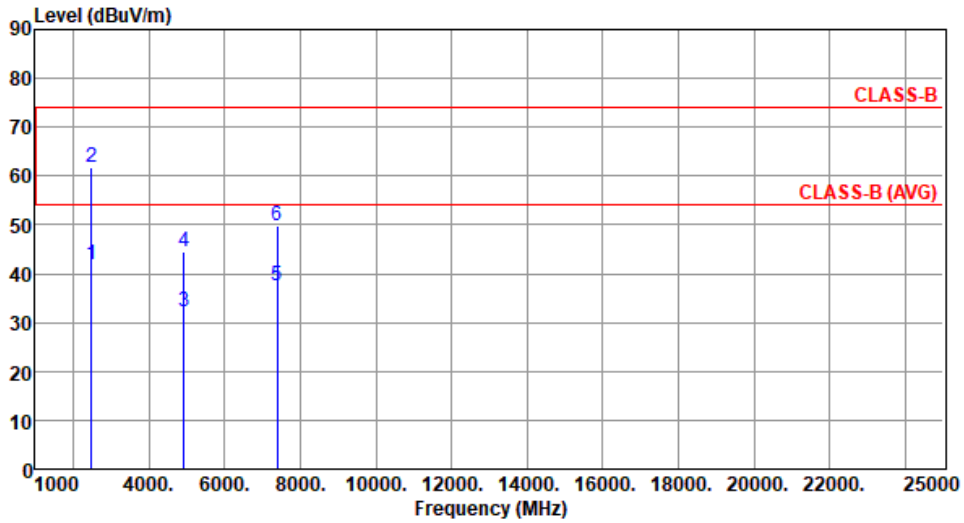


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	49.96	54.00	-4.04	52.66	-2.70	Average	243	199
2	2483.50	70.23	74.00	-3.77	72.93	-2.70	Peak	243	199
3	4924.00	32.35	54.00	-21.65	28.29	4.06	Average	100	30
4	4924.00	44.64	74.00	-29.36	40.58	4.06	Peak	100	30
5	7386.00	37.89	54.00	-16.11	28.64	9.25	Average	100	70
6	7386.00	50.41	74.00	-23.59	41.16	9.25	Peak	100	70

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)	2462
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

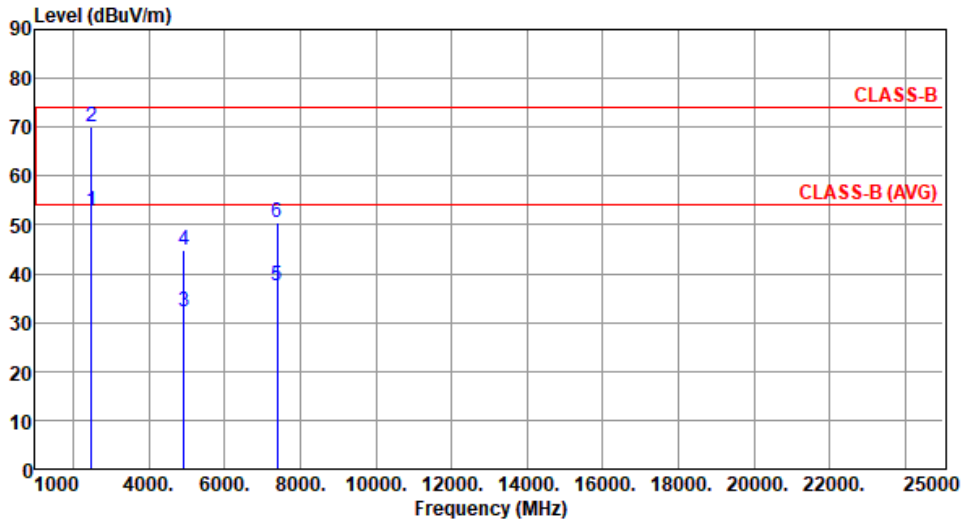


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	41.89	54.00	-12.11	44.59	-2.70	Average	100	26
2	2483.50	61.89	74.00	-12.11	64.59	-2.70	Peak	100	26
3	4924.00	32.21	54.00	-21.79	28.15	4.06	Average	100	220
4	4924.00	44.48	74.00	-29.52	40.42	4.06	Peak	100	220
5	7386.00	37.59	54.00	-16.41	28.34	9.25	Average	100	60
6	7386.00	49.92	74.00	-24.08	40.67	9.25	Peak	100	60

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)	2467
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

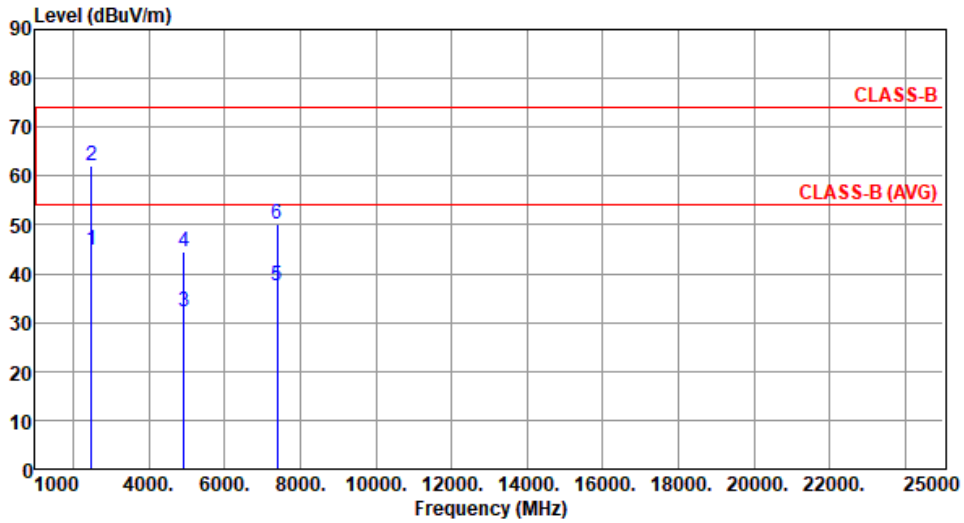


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	52.74	54.00	-1.26	55.44	-2.70	Average	244	199
2	2483.50	70.15	74.00	-3.85	72.85	-2.70	Peak	244	199
3	4934.00	32.16	54.00	-21.84	28.12	4.04	Average	100	20
4	4934.00	44.71	74.00	-29.29	40.67	4.04	Peak	100	20
5	7401.00	37.67	54.00	-16.33	28.43	9.24	Average	100	60
6	7401.00	50.53	74.00	-23.47	41.29	9.24	Peak	100	60

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)	2467
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

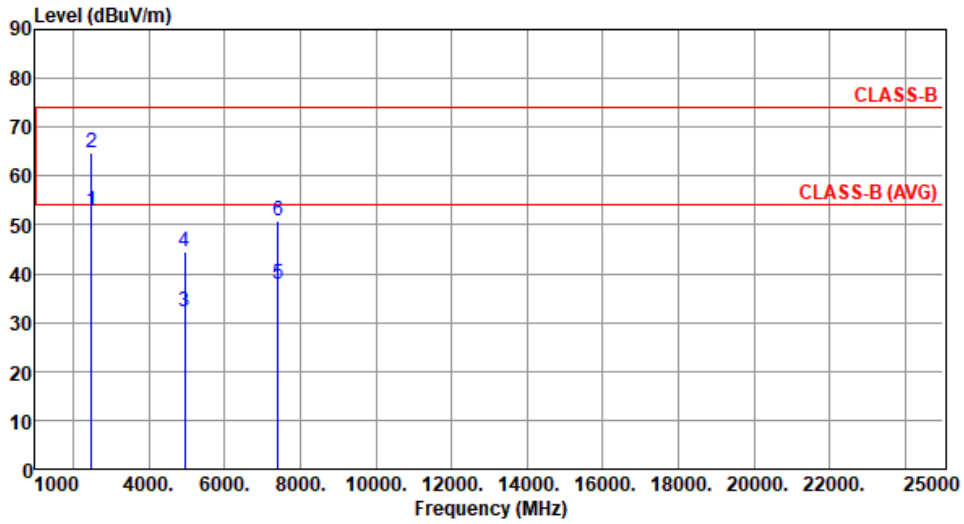


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	44.85	54.00	-9.15	47.55	-2.70	Average	100	23
2	2483.50	62.19	74.00	-11.81	64.89	-2.70	Peak	100	23
3	4934.00	32.08	54.00	-21.92	28.04	4.04	Average	100	60
4	4934.00	44.41	74.00	-29.59	40.37	4.04	Peak	100	60
5	7401.00	37.53	54.00	-16.47	28.29	9.24	Average	100	80
6	7401.00	50.13	74.00	-23.87	40.89	9.24	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	HT20	Test Freq. (MHz)	2472
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

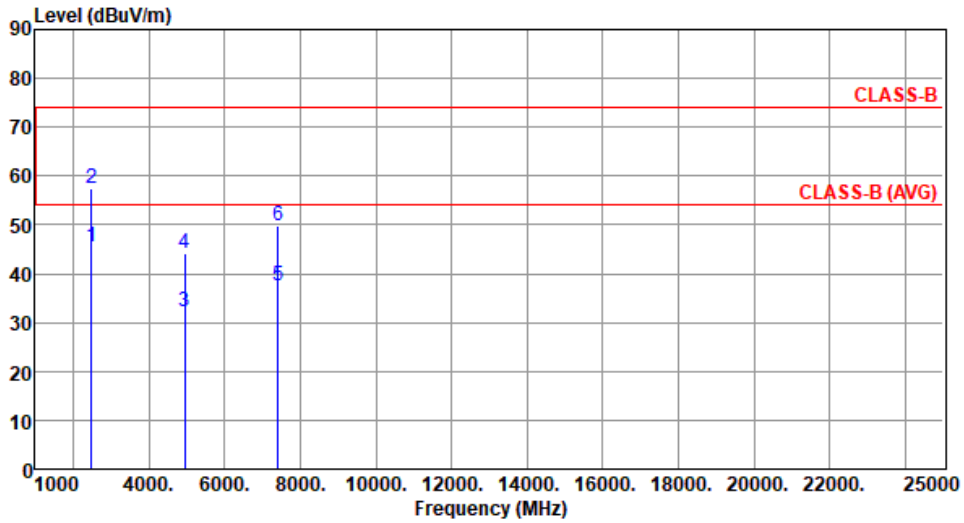


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	52.66	54.00	-1.34	55.36	-2.70	Average	242	199
2	2483.50	64.85	74.00	-9.15	67.55	-2.70	Peak	242	199
3	4944.00	32.33	54.00	-21.67	28.29	4.04	Average	100	60
4	4944.00	44.50	74.00	-29.50	40.46	4.04	Peak	100	60
5	7416.00	37.88	54.00	-16.12	28.59	9.29	Average	100	70
6	7416.00	50.72	74.00	-23.28	41.43	9.29	Peak	100	70

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)	2472
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68



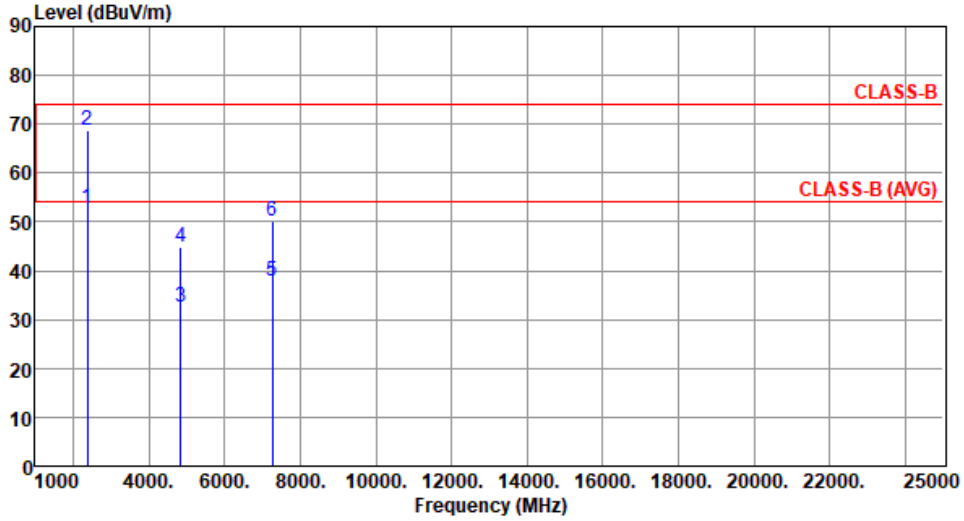
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	45.61	54.00	-8.39	48.31	-2.70	Average	100	25
2	2483.50	57.45	74.00	-16.55	60.15	-2.70	Peak	100	25
3	4944.00	32.15	54.00	-21.85	28.11	4.04	Average	100	30
4	4944.00	44.33	74.00	-29.67	40.29	4.04	Peak	100	30
5	7416.00	37.64	54.00	-16.36	28.35	9.29	Average	100	90
6	7416.00	49.93	74.00	-24.07	40.64	9.29	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).

3.5.13 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		

Test By :Akun Chung Temperature(°C):23 Humidity(%):68

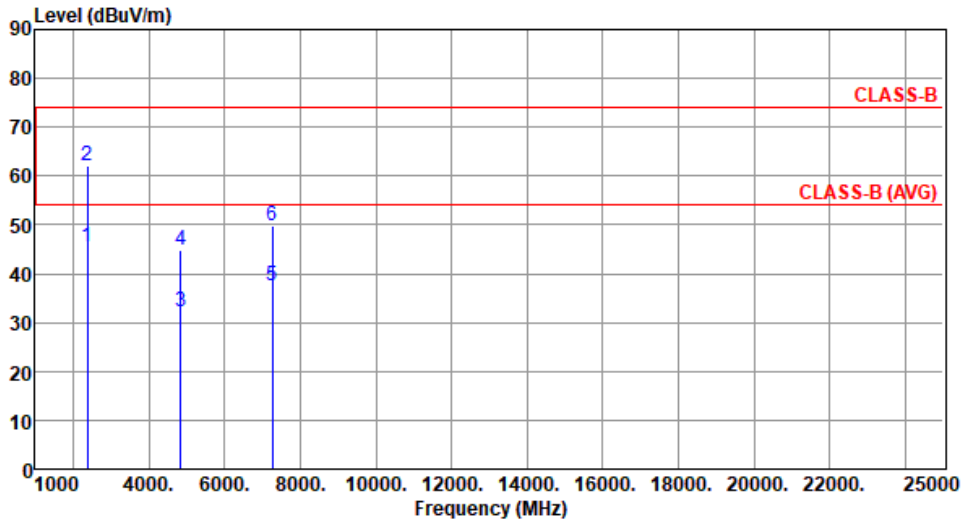


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	52.85	54.00	-1.15	55.60	-2.75	Average	100	202
2	2390.00	68.81	74.00	-5.19	71.56	-2.75	Peak	100	202
3	4844.00	32.42	54.00	-21.58	28.26	4.16	Average	100	40
4	4844.00	44.83	74.00	-29.17	40.67	4.16	Peak	100	40
5	7266.00	37.83	54.00	-16.17	28.60	9.23	Average	100	60
6	7266.00	50.12	74.00	-23.88	40.89	9.23	Peak	100	60

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	HT40	Test Freq. (MHz)	2422
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

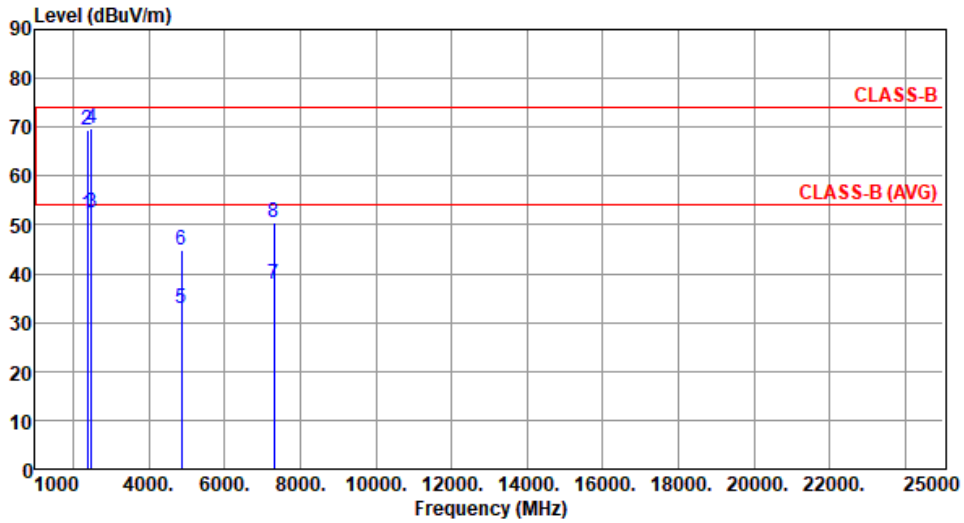


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	45.47	54.00	-8.53	48.22	-2.75	Average	100	20
2	2390.00	62.14	74.00	-11.86	64.89	-2.75	Peak	100	20
3	4844.00	32.30	54.00	-21.70	28.14	4.16	Average	100	30
4	4844.00	44.74	74.00	-29.26	40.58	4.16	Peak	100	30
5	7266.00	37.58	54.00	-16.42	28.35	9.23	Average	100	70
6	7266.00	49.86	74.00	-24.14	40.63	9.23	Peak	100	70

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	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

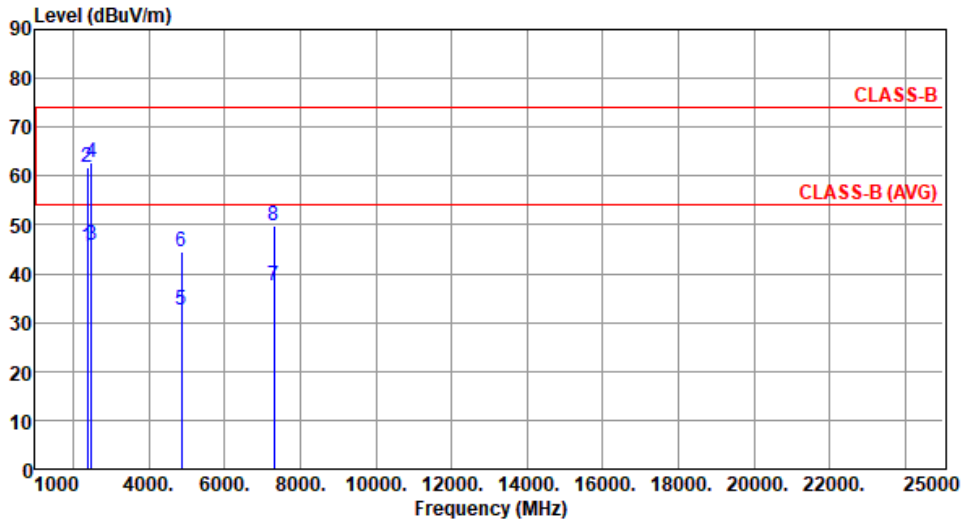


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	52.26	54.00	-1.74	55.01	-2.75	Average	102	198
2	2390.00	69.55	74.00	-4.45	72.30	-2.75	Peak	102	198
3	2483.50	52.35	54.00	-1.65	55.05	-2.70	Average	102	198
4	2483.50	69.84	74.00	-4.16	72.54	-2.70	Peak	102	198
5	4874.00	32.72	54.00	-21.28	28.59	4.13	Average	100	60
6	4874.00	44.77	74.00	-29.23	40.64	4.13	Peak	100	60
7	7311.00	37.97	54.00	-16.03	28.69	9.28	Average	100	55
8	7311.00	50.56	74.00	-23.44	41.28	9.28	Peak	100	55

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	HT40	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

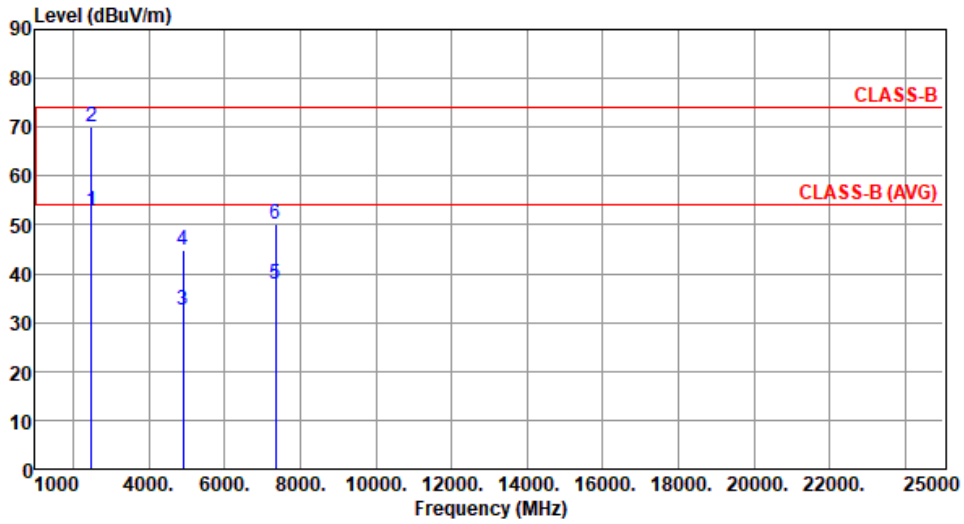


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	45.50	54.00	-8.50	48.25	-2.75	Average	100	19
2	2390.00	61.83	74.00	-12.17	64.58	-2.75	Peak	100	19
3	2483.50	45.86	54.00	-8.14	48.56	-2.70	Average	100	19
4	2483.50	62.62	74.00	-11.38	65.32	-2.70	Peak	100	19
5	4874.00	32.55	54.00	-21.45	28.42	4.13	Average	100	70
6	4874.00	44.59	74.00	-29.41	40.46	4.13	Peak	100	70
7	7311.00	37.62	54.00	-16.38	28.34	9.28	Average	100	40
8	7311.00	49.94	74.00	-24.06	40.66	9.28	Peak	100	40

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	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

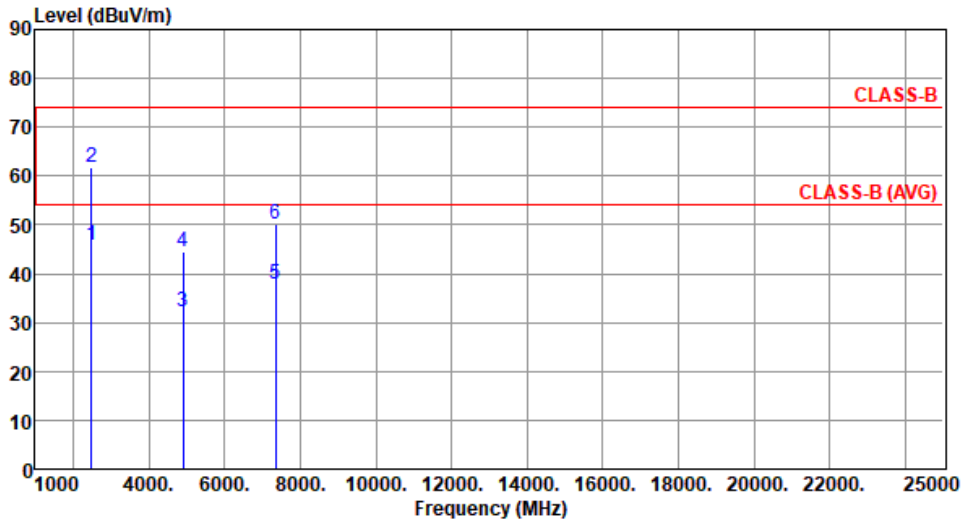


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	52.72	54.00	-1.28	55.42	-2.70	Average	112	208
2	2483.50	69.95	74.00	-4.05	72.65	-2.70	Peak	112	208
3	4904.00	32.46	54.00	-21.54	28.37	4.09	Average	100	80
4	4904.00	44.76	74.00	-29.24	40.67	4.09	Peak	100	80
5	7356.00	37.81	54.00	-16.19	28.55	9.26	Average	100	50
6	7356.00	50.23	74.00	-23.77	40.97	9.26	Peak	100	50

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	HT40	Test Freq. (MHz)	2452
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

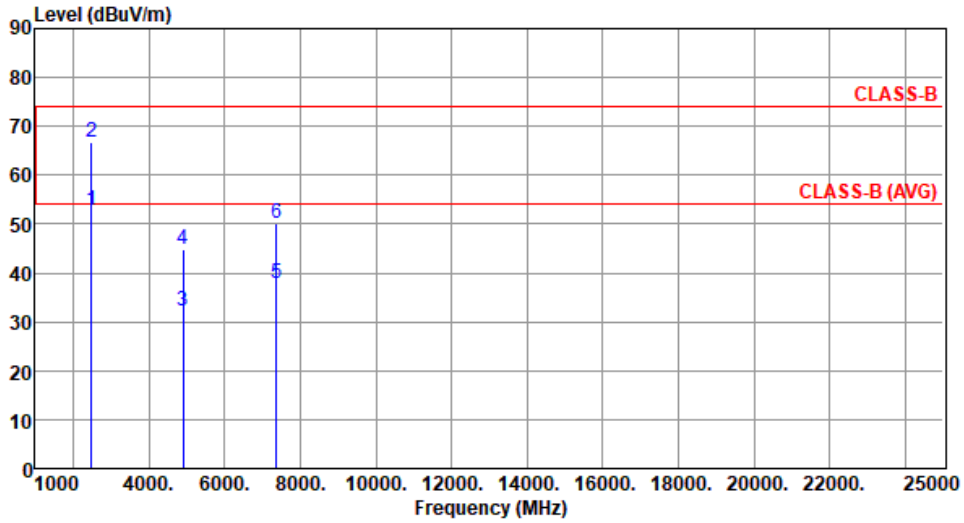


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	45.69	54.00	-8.31	48.39	-2.70	Average	100	27
2	2483.50	61.89	74.00	-12.11	64.59	-2.70	Peak	100	27
3	4904.00	32.26	54.00	-21.74	28.17	4.09	Average	100	30
4	4904.00	44.64	74.00	-29.36	40.55	4.09	Peak	100	30
5	7356.00	37.70	54.00	-16.30	28.44	9.26	Average	100	20
6	7356.00	50.11	74.00	-23.89	40.85	9.26	Peak	100	20

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	HT40	Test Freq. (MHz)	2457
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

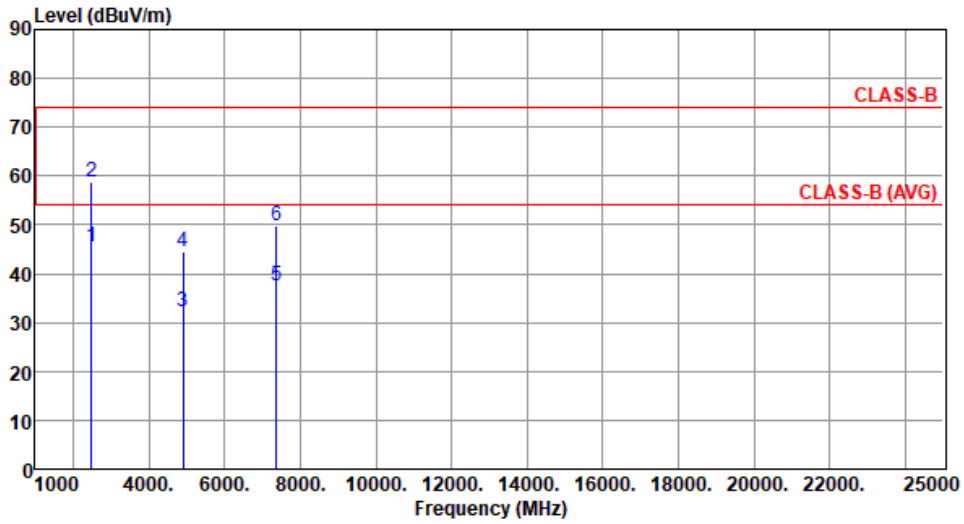


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	52.64	54.00	-1.36	55.34	-2.70	Average	114	208
2	2483.50	66.82	74.00	-7.18	69.52	-2.70	Peak	114	208
3	4914.00	32.30	54.00	-21.70	28.22	4.08	Average	100	100
4	4914.00	44.75	74.00	-29.25	40.67	4.08	Peak	100	100
5	7371.00	37.90	54.00	-16.10	28.65	9.25	Average	100	90
6	7371.00	50.20	74.00	-23.80	40.95	9.25	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	HT40	Test Freq. (MHz)	2457
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

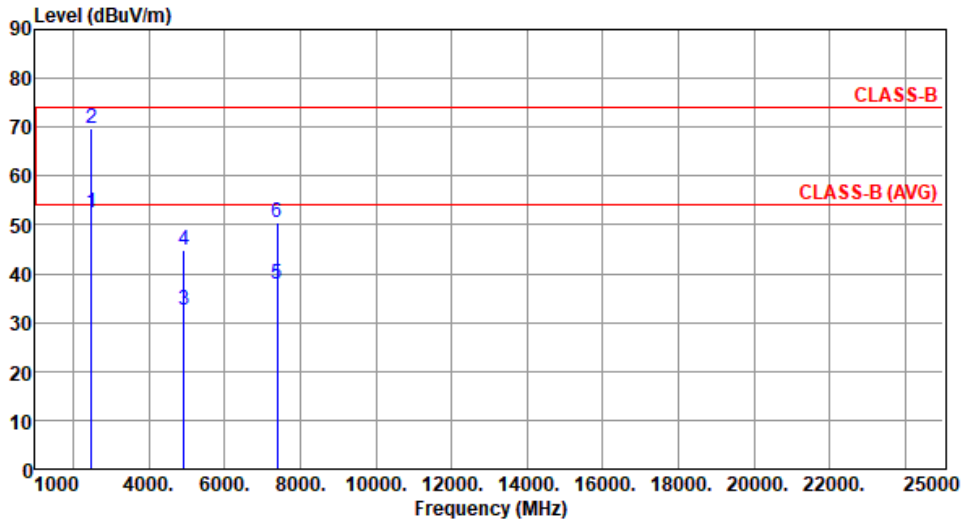


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	45.51	54.00	-8.49	48.21	-2.70	Average	103	22
2	2483.50	58.89	74.00	-15.11	61.59	-2.70	Peak	103	22
3	4914.00	32.25	54.00	-21.75	28.17	4.08	Average	100	30
4	4914.00	44.51	74.00	-29.49	40.43	4.08	Peak	100	30
5	7371.00	37.67	54.00	-16.33	28.42	9.25	Average	100	70
6	7371.00	49.91	74.00	-24.09	40.66	9.25	Peak	100	70

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	HT40	Test Freq. (MHz)	2462
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):68

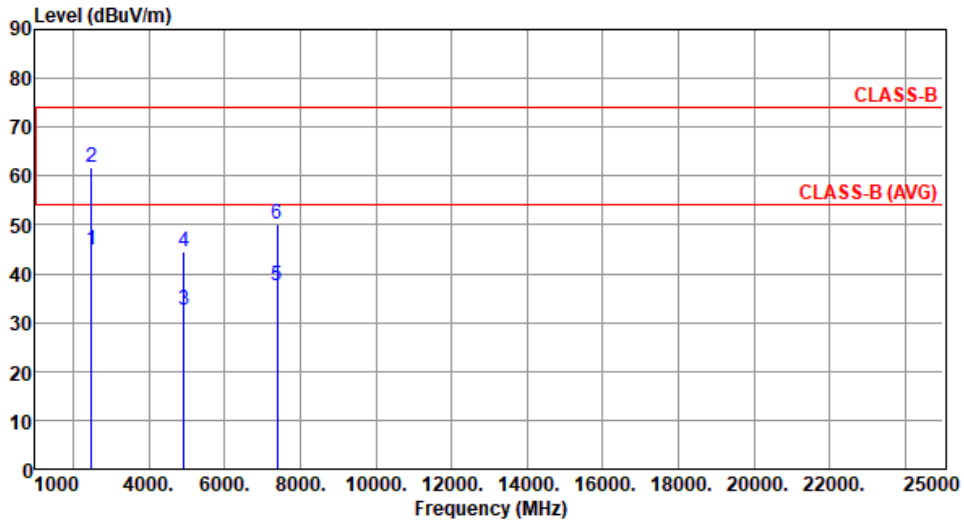


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	52.63	54.00	-1.37	55.33	-2.70	Average	112	207
2	2483.50	69.61	74.00	-4.39	72.31	-2.70	Peak	112	207
3	4924.00	32.53	54.00	-21.47	28.47	4.06	Average	100	30
4	4924.00	44.91	74.00	-29.09	40.85	4.06	Peak	100	30
5	7386.00	37.93	54.00	-16.07	28.68	9.25	Average	100	50
6	7386.00	50.58	74.00	-23.42	41.33	9.25	Peak	100	50

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	HT40	Test Freq. (MHz)	2462
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 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	2483.50	44.89	54.00	-9.11	47.59	-2.70	Average	182	86
2	2483.50	61.88	74.00	-12.12	64.58	-2.70	Peak	182	86
3	4924.00	32.38	54.00	-21.62	28.32	4.06	Average	100	20
4	4924.00	44.65	74.00	-29.35	40.59	4.06	Peak	100	20
5	7386.00	37.62	54.00	-16.38	28.37	9.25	Average	100	30
6	7386.00	50.12	74.00	-23.88	40.87	9.25	Peak	100	30

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).

3.6 Emissions in Non-Restricted Frequency Bands

3.6.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.6.2 Test Procedures

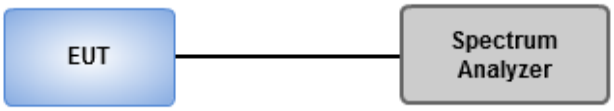
Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

3.6.3 Test Setup

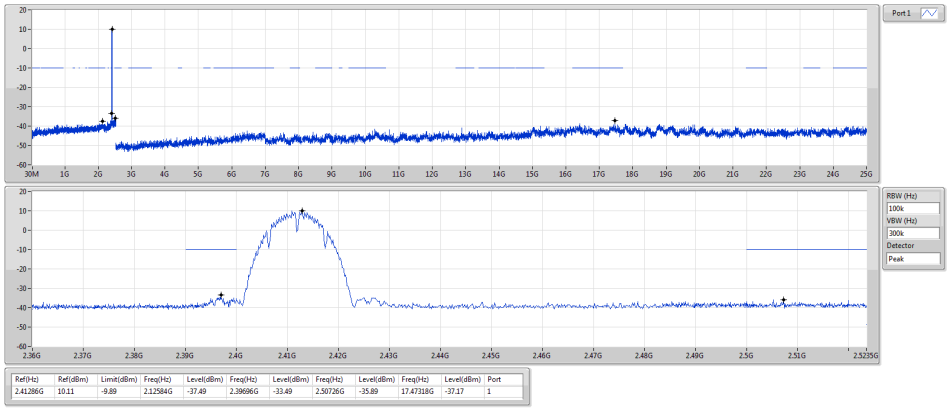


3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands

Ambient Condition	21°C / 66%	Tested By	Aska Huang

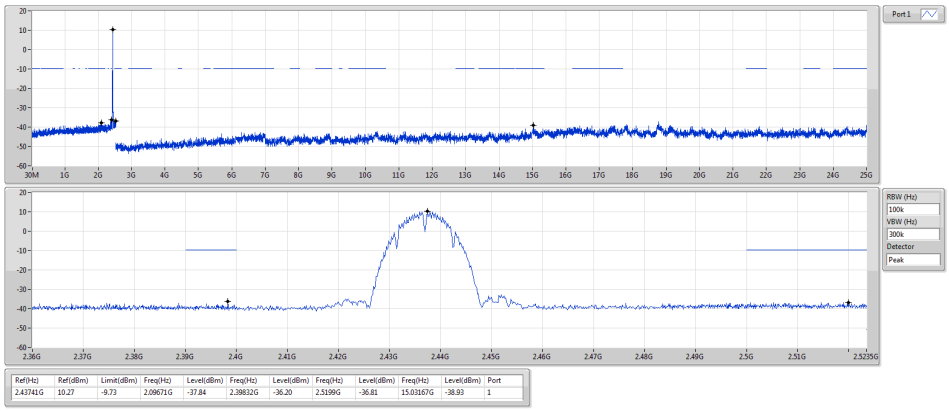
802.11b_Nss1,(1Mbps)_1TX CSE NdB

2412MHz



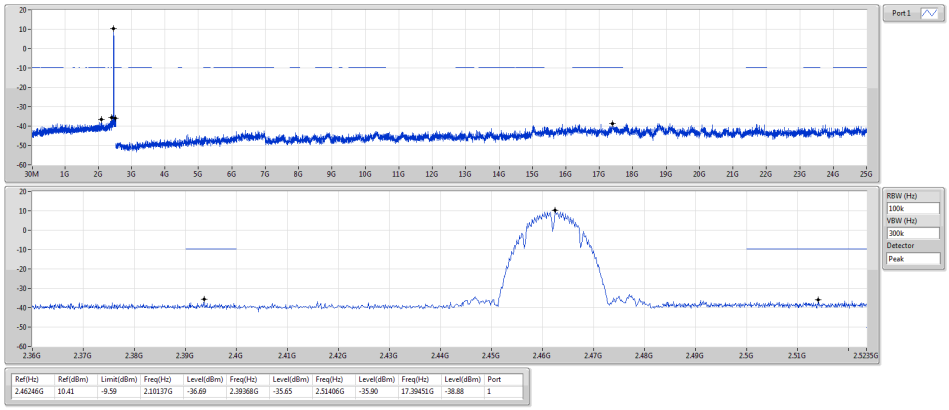
802.11b_Nss1,(1Mbps)_1TX CSE NdB

2437MHz



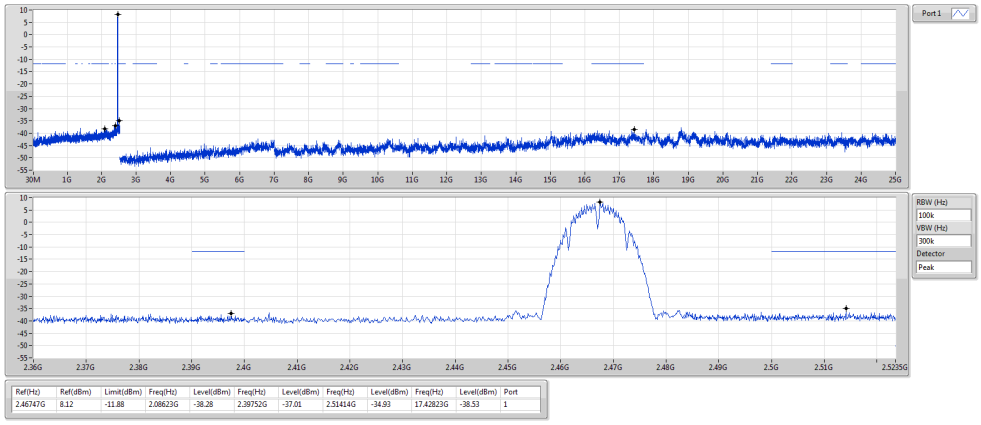
802.11b_Nss1,(1Mbps)_1TX CSE NdB

2462MHz



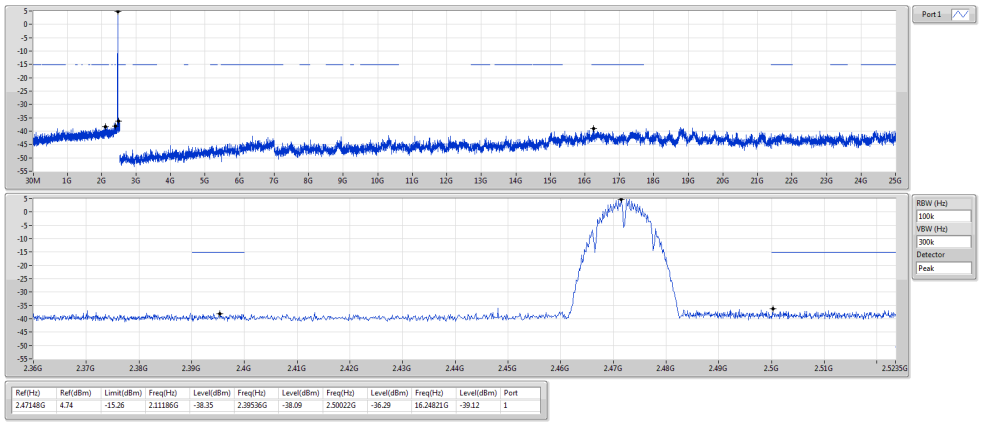
802.11b_Nss1,(1Mbps)_1TX **CSE NdB**

2467MHz



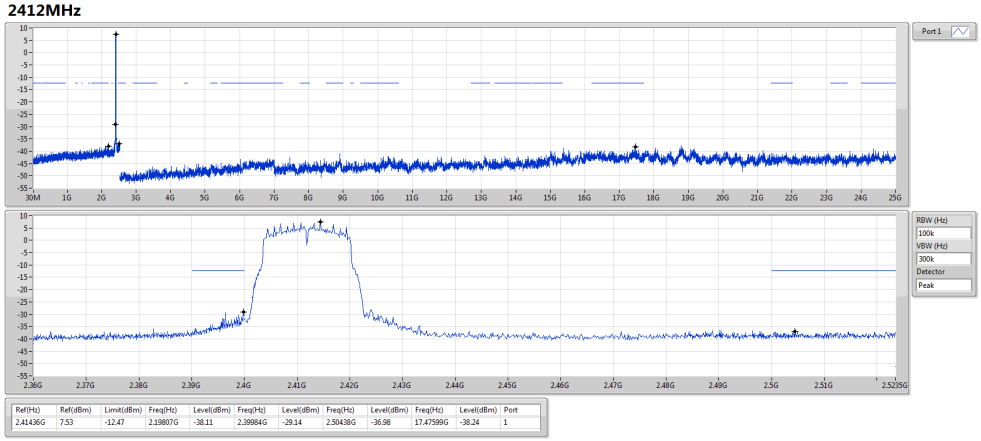
802.11b_Nss1,(1Mbps)_1TX **CSE NdB**

2472MHz



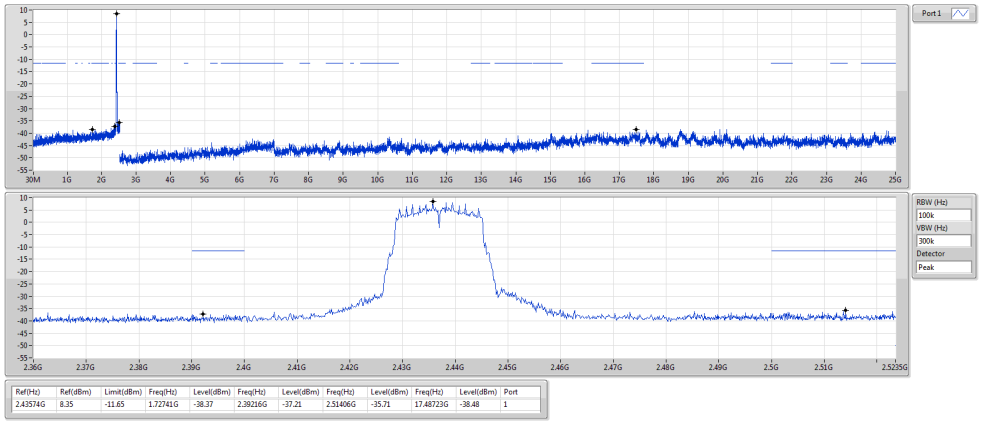
802.11g_Nss1,(6Mbps)_1TX **CSE NdB**

2412MHz



802.11g_Nss1,(6Mbps)_1TX **CSE NdB**

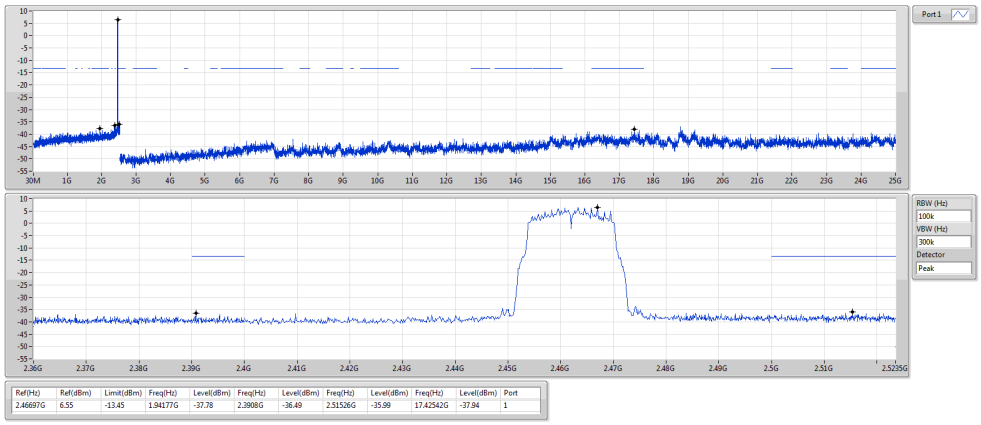
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	8.35	-11.65	1.72741G	-38.37	2.39216G	-37.21	2.51406G	-35.71	17.48723G	-38.48	1

802.11g_Nss1,(6Mbps)_1TX **CSE NdB**

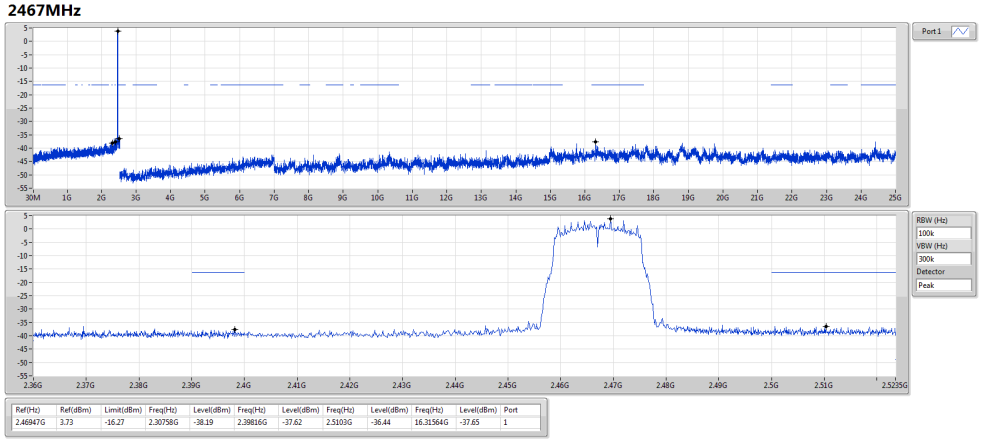
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46697G	6.55	-13.45	1.94177G	-37.78	2.3908G	-36.49	2.51526G	-35.99	17.42542G	-37.94	1

802.11g_Nss1,(6Mbps)_1TX **CSE NdB**

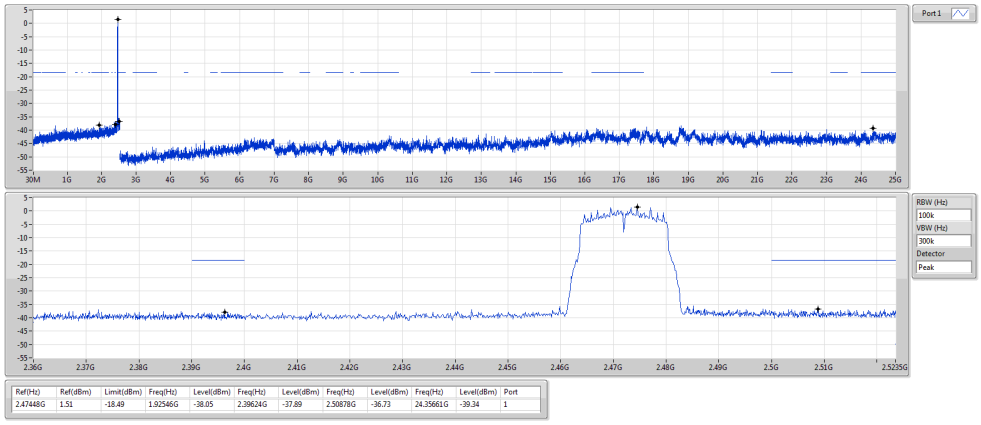
2467MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46947G	3.73	-16.27	2.30758G	-38.19	2.39816G	-37.62	2.5103G	-36.44	16.31564G	-37.65	1

802.11g_Nss1,(6Mbps)_1TX **CSE NdB**

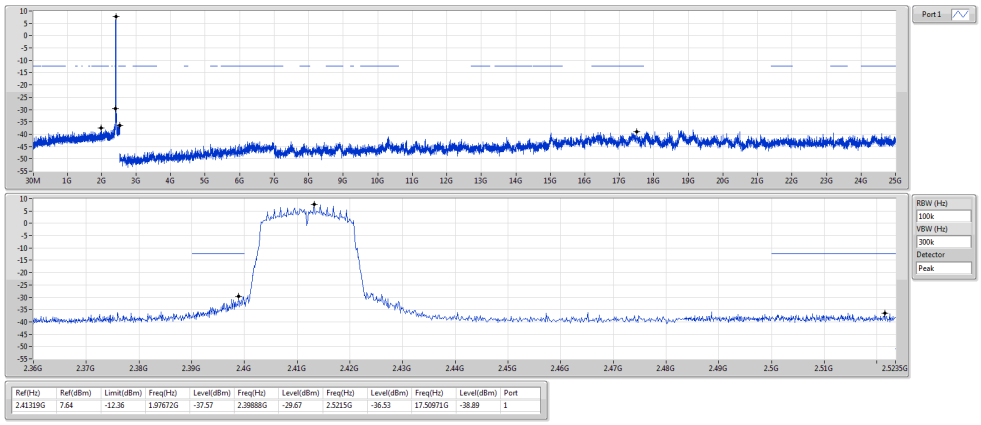
2472MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47448G	1.51	-18.49	1.92546G	-38.05	2.39624G	-37.89	2.50878G	-36.73	24.35661G	-39.34	1

802.11n HT20_Nss1,(MCS0)_1TX **CSE NdB**

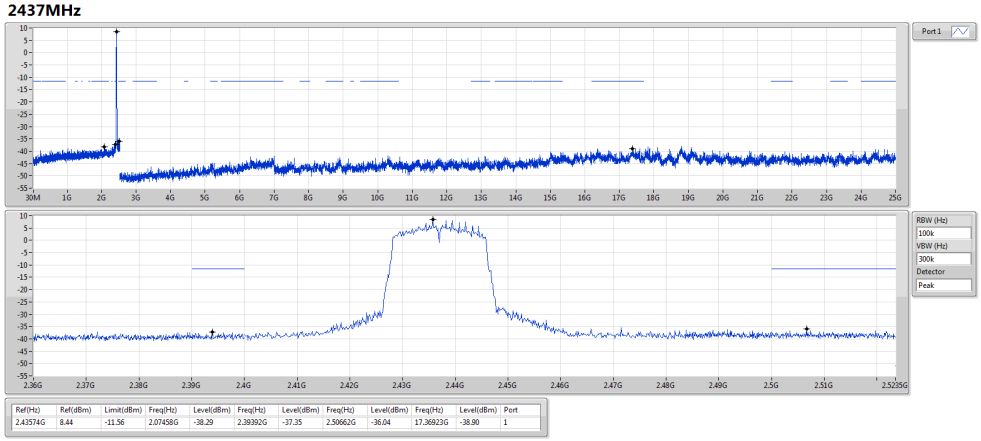
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41319G	7.64	-12.36	1.97672G	-37.57	2.39888G	-29.67	2.5215G	-36.53	17.50971G	-38.89	1

802.11n HT20_Nss1,(MCS0)_1TX **CSE NdB**

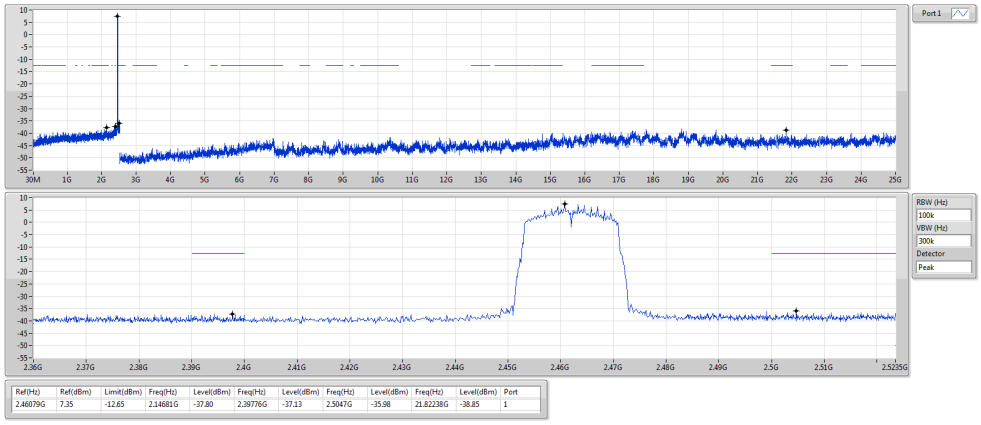
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	8.44	-11.56	2.07458G	-38.29	2.39392G	-37.35	2.50662G	-36.04	17.36923G	-38.90	1

802.11n HT20_Nss1,(MCS0)_1TX **CSE NdB**

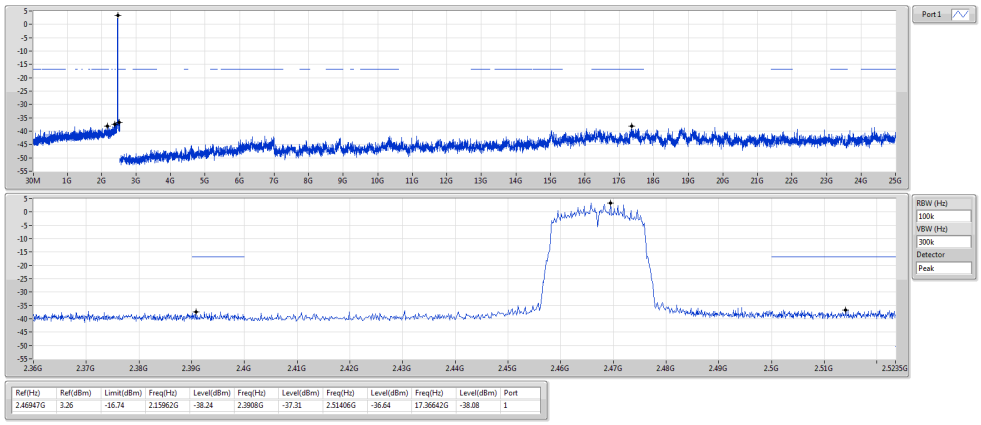
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46079G	7.35	-12.65	2.14681G	-37.80	2.39776G	-37.13	2.5047G	-35.98	21.82238G	-38.85	1

802.11n HT20_Nss1,(MCS0)_1TX **CSE NdB**

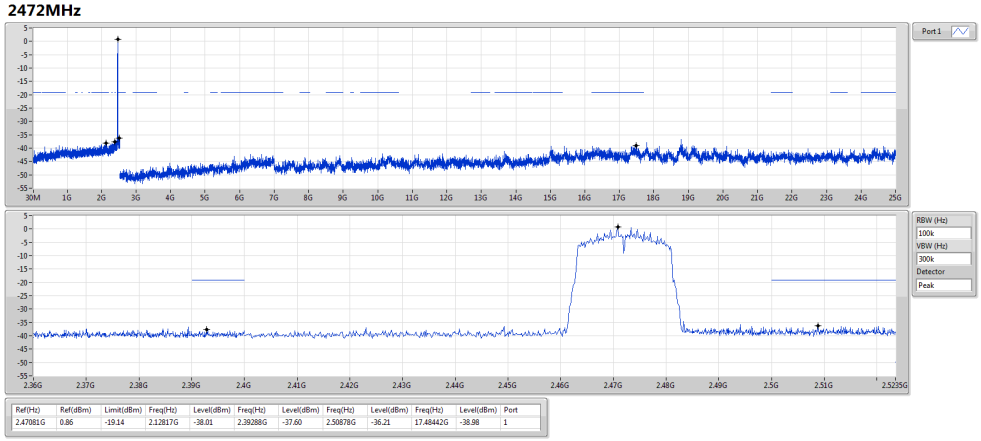
2467MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46947G	3.26	-16.74	2.15962G	-38.24	2.3908G	-37.31	2.51406G	-36.64	17.36642G	-38.08	1

802.11n HT20_Nss1,(MCS0)_1TX **CSE NdB**

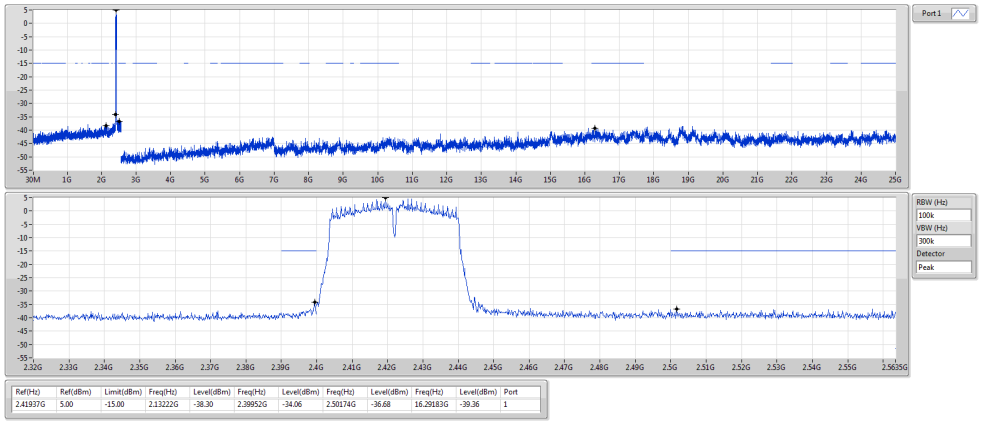
2472MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47081G	0.86	-19.14	2.12817G	-38.01	2.39288G	-37.60	2.50878G	-36.21	17.48442G	-38.98	1

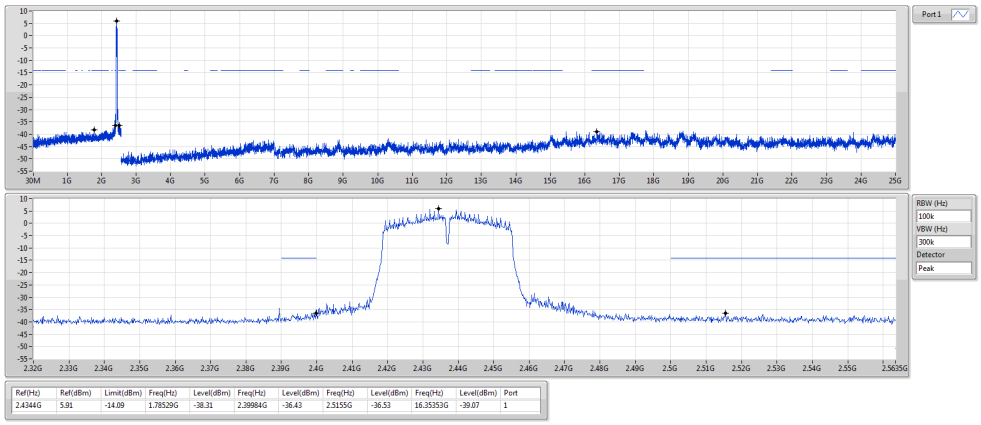
802.11n HT40_Nss1,(MCS0)_1TX **CSE NdB**

2422MHz



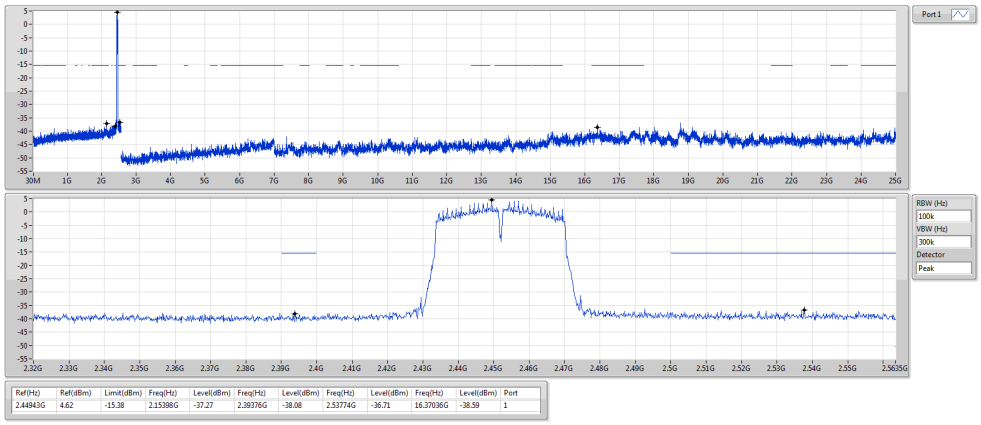
802.11n HT40_Nss1,(MCS0)_1TX **CSE NdB**

2437MHz



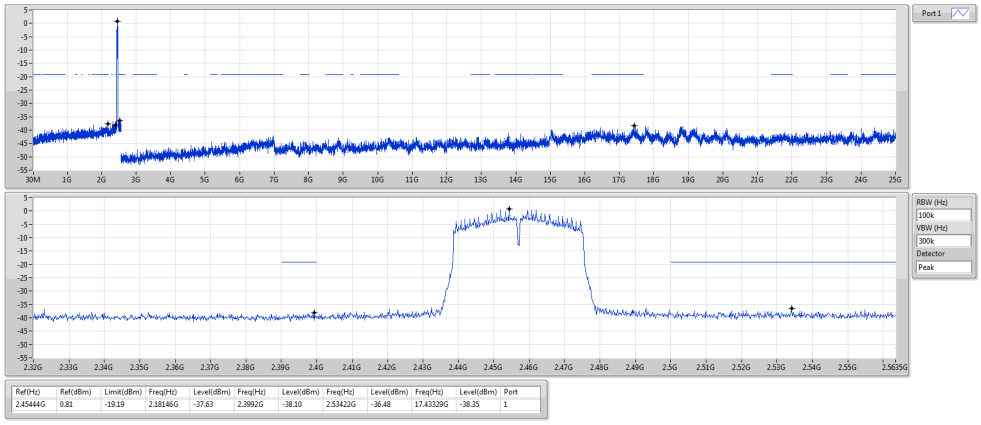
802.11n HT40_Nss1,(MCS0)_1TX **CSE NdB**

2452MHz



802.11n HT40_Nss1,(MCS0)_1TX **CSE NdB**

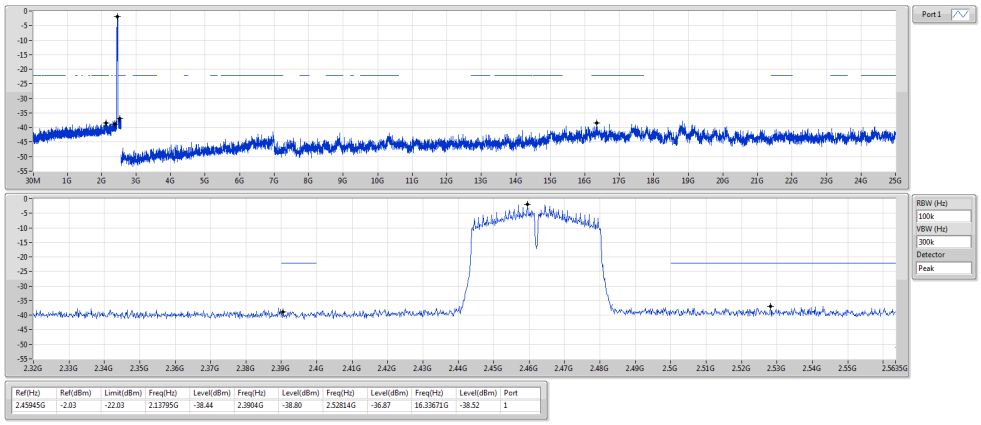
2457MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.45444G	0.81	-19.19	2.18146G	-37.63	2.3892G	-38.10	2.53422G	-36.48	17.43329G	-38.35	1

802.11n HT40_Nss1,(MCS0)_1TX **CSE NdB**

2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.45945G	-2.03	-22.03	2.13795G	-38.44	2.3904G	-38.80	2.52814G	-36.87	16.33671G	-38.52	1

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	**Kwei Shan**	**Kwei Shan Site II**
Tel: 886-2-2601-1640	Tel: 886-3-271-8666	Tel: 886-3-271-8640
No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)	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.)	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==