

FCC C2PC Test Report

FCC ID : ZQ6-AP6234A

Equipment : Wifi Dual Band + BT combo module

Model No. : AP6234A, AP6234AL

Brand Name : Ampak

Applicant : Ampak Technology Inc

Address : No.1 Jen Al Road, Hsinchu Industrial Park,

Hukou, Hsinchu, Taiwan, 30352

Standard : 47 CFR FCC Part 15.247

Received Date : Jul. 03, 2014

Tested Date : Jul. 03 ~ Jul. 10, 2014

We, International Certification Corp., 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 may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:

Gary Chang / Manager

Iac-MRA



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Release Record

Report No.	Version	Description	Issued Date
FR440102-11AI	Rev. 01	Initial issue	Sep. 18, 2014

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Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.474MHz 35.44 (Margin -11.01dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]:3830.00MHz 50.88 (Margin -3.12dB) - AV	Pass

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1 General Description

1.1 Information

This report is prepared for FCC class II change

This report is issued as a supplementary report to original ICC report no. FR440102-07AN. The modification is adding 2nd antenna (PIFA antenna), therefore, radiated emission and conducted emission has been re-tested after re-evaluation, and only its data was recorded in the following sections.

Brand Name	Model Name	Product Name	Description
Amnak	AP6234A	Wifi Dual Band + BT	Without 2.4G SAW filter
Ampak	AP6234AL	combo module	With 2.4G SAW filter

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information								
Frequency Range (MHz) IEEE Std. Ch. Freq. (MHz) Ch. Freq. (MHz) Channel Transmit Chains (N _{TX}) MCS								
5725-5850	а	5745-5825	149-165 [5]	1	6-54 Mbps			
5725-5850	n (HT20)	5745-5825	149-165 [5]	1	MCS 0-7			
5725-5850	n (HT40)	5755-5795	151-159 [2]	1	MCS 0-7			

Note 1: RF output power specifies that Maximum Peak Conducted Output Power..

1.1.2 Antenna Details

Ant. No. Type		Ol	Connector				
		2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850	Connector
1	Dipole(Original)	2	3	3	3	3	UFL
2	PIFA(New)	3.53	5.30	4.93	5.31	5.55	UFL

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host.
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1.1.4 Accessories

N/A

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Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.



1.1.5 Channel List

Frequenc	y band (MHz)	5725~5850		
802.1	802.11 a / HT20 802.11n HT40		n HT40	
Channel	Channel Frequency(MHz)		Frequency(MHz)	
149	5745	151	5755	
153	5765	159	5795	
157	5785			
161	5805			
165	5825			

1.1.6 Test Tool and Duty Cycle

Test Tool	MP tool, V2.0.1.1				
	Mode	Duty cycle (%)	Duty factor (dB)		
Duty Cycle and Duty Footor	11a	99.51%	0.02		
Duty Cycle and Duty Factor -	HT20	99.26%	0.03		
	HT40	98.21%	0.08		

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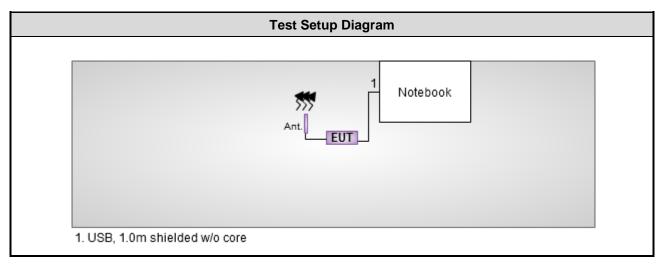
1.1.7 Power Setting

Modulation Mode	Test Frequency (MHz)	Power Set
11a	5745	92
11a	5785	92
11a	5825	92
HT20	5745	92
HT20	5785	92
HT20	5825	92
HT40	5755	92
HT40	5795	92

1.2 Local Support Equipment List

	Support Equipment List							
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)		
1	Notebook	DELL	E6430		DoC	USB 1.0m shielded cable w/o core.		

1.3 Test Setup Chart



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1.4 The Equipment List

Test Item	Conducted Emission	Conducted Emission							
Test Site	Conduction room 1 / (Conduction room 1 / (CO01-WS)							
Instrument	nent Manufacturer Model No. Serial No. Calibration Date Calibration Until								
EMC Receiver	R&S	ESCS 30	100169	Oct. 15, 2013	Oct. 14, 2014				
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 23, 2013	Nov. 22, 2014				
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Dec. 04, 2013	Dec. 03, 2014				
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Apr. 23, 2014	Apr. 22, 2015				
50 ohm terminal (Support Unit)	NA	50	04	Apr. 18, 2014	Apr. 17, 2015				
Note: Calibration Inte	Note: Calibration Interval of instruments listed above is one year.								

Test Item	Radiated Emission									
Test Site	966 chamber 2 / (03C	966 chamber 2 / (03CH02-WS)								
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until					
Spectrum Analyzer	R&S	FSV40	101499	Feb. 08, 2014	Feb. 07, 2015					
Receiver	R&S	ESR3	101657	Jan. 18, 2014	Jan. 17, 2015					
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-524	Jan. 08, 2014	Jan. 07, 2015					
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Jan. 07, 2014	Jan. 06, 2015					
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Dec. 27, 2013	Dec. 26, 2014					
Preamplifier	Burgeon	BPA-530	100218	Dec. 09, 2013	Dec. 08, 2014					
Preamplifier	Agilent	83017A	MY39501309	Dec. 09, 2013	Dec. 08, 2014					
Preamplifier	WM	TF-130N-R1	923365	Oct. 23, 2013	Oct. 22, 2014					
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	Dec. 17, 2013	Dec. 16, 2014					
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Dec. 17, 2013	Dec. 16, 2014					
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Dec. 17, 2013	Dec. 16, 2014					
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-003	Dec. 17, 2013	Dec. 16, 2014					
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-004	Dec. 17, 2013	Dec. 16, 2014					
Note: Calibration Inter	val of instruments liste	d above is one year.								

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until		
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014		
Note: Calibration Interval of instruments listed above is two year.							

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1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2009

FCC KDB 558074 D01 DTS Meas Guidance v03r01

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Measurement Uncertainty				
Parameters	Uncertainty			
AC conducted emission	±2.92 dB			
Radiated emission < 1GHz	±3.26 dB			
Radiated emission > 1GHz	±4.94 dB			

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2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	22°C / 68%	Skys Huang
Radiated Emissions	03CH02-WS	21-25°C / 65-68%	Anderson Hung York Lin

FCC site registration No.: 657002IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	HT40	5755	MCS 0	1
Radiated Emissions ≤1GHz	HT40	5755	MCS 0	1
Radiated Emissions >1GHz RF Output Power 6dB bandwidth Power spectral density	11a HT20 HT40	5745 / 5785 / 5825 5745 / 5785 / 5825 5755 / 5795	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 **Y-plane** results were found as the worst case and were shown in this report.
- 2. Two samples had been pre-tested on the following test configurations. **Configuration 1** (Model AP6234A) is the worst case and only its data was record in this test report.

1) Configuration 1 : AP6234A

2) Configuration 2: AP6234AL

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3 Transmitter Test Results

3.1 Conducted Emissions

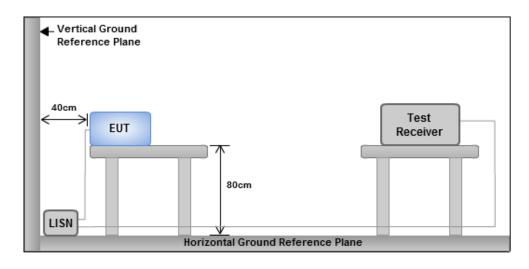
3.1.1 Limit of Conducted Emissions

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



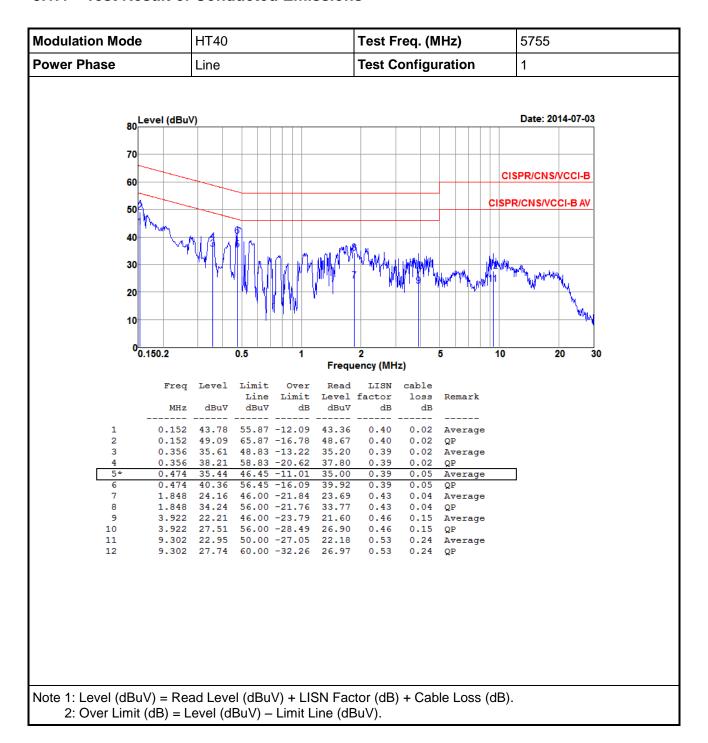
Note: 1. Support units were connected to second LISN.

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

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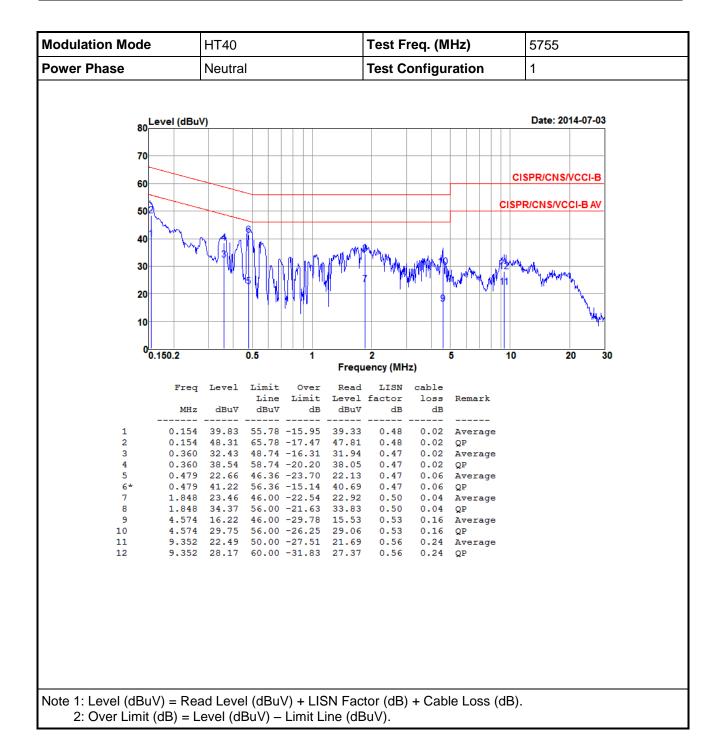


3.1.4 Test Result of Conducted Emissions



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3.2 Unwanted Emissions into Restricted Frequency Bands

3.2.1 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.

3.2.2 Test Procedures

- 1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
- 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.

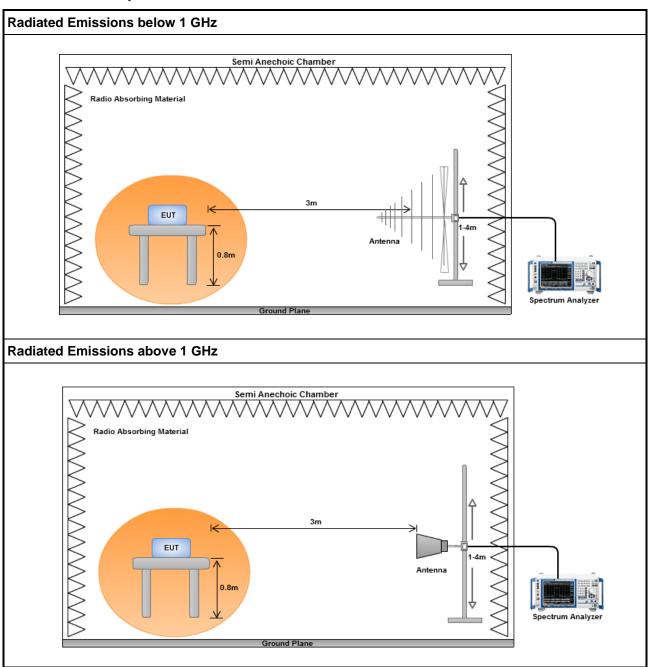
Note:

- 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.

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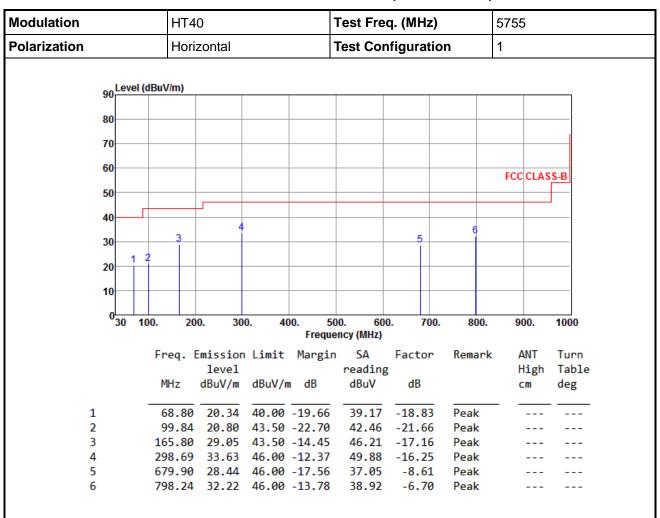
3.2.3 Test Setup



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3.2.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

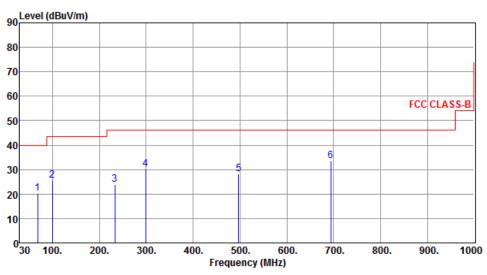
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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Modulation	HT40	Test Freq. (MHz)	5755
Polarization	Vertical	Test Configuration	1



	Freq.	Emission level		Ū	reading		Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	68.80	20.20	40.00	-19.80	39.03	-18.83	Peak		
2	99.84	25.45	43.50	-18.05	47.11	-21.66	Peak		
3	232.73	23.84	46.00	-22.16	42.43	-18.59	Peak		
4	298.69	30.27	46.00	-15.73	46.52	-16.25	Peak		
5	497.54	28.34	46.00	-17.66	40.07	-11.73	Peak		
6	693.48	33.50	46.00	-12.50	41.91	-8.41	Peak		
2 3 4 5	99.84 232.73 298.69 497.54	25.45 23.84 30.27 28.34	43.50 46.00 46.00 46.00	-18.05 -22.16 -15.73 -17.66	47.11 42.43 46.52 40.07	-21.66 -18.59 -16.25 -11.73	Peak Peak Peak Peak		

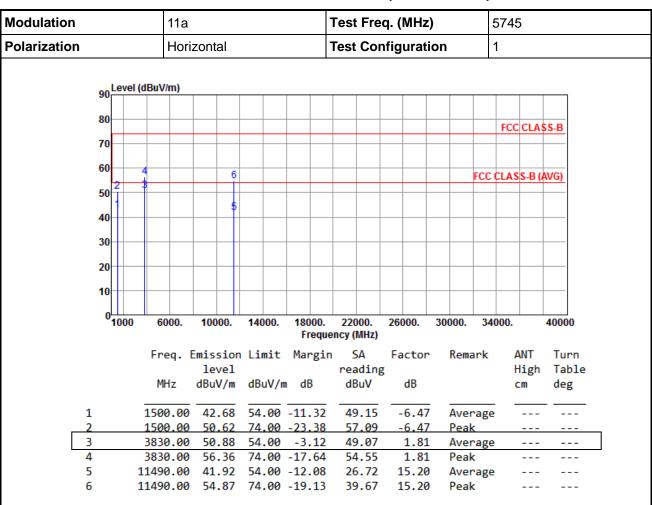
*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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3.2.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

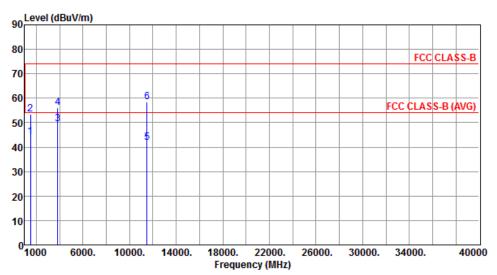
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

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Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical	Test Configuration	1



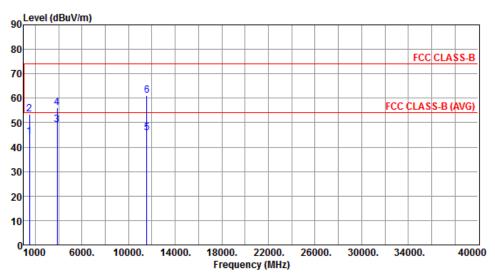
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	44.03	54.00	-9.97	50.50	-6.47	Average		
_	1300.00								
2	1500.00	53.35	74.00	-20.65	59.82	-6.47	Peak		
3	3830.00	49.60	54.00	-4.40	47.79	1.81	Average		
4	3830.00	56.17	74.00	-17.83	54.36	1.81	Peak		
5	11490.00	41.76	54.00	-12.24	26.56	15.20	Average		
6	11490.00	58.43	74.00	-15.57	43.23	15.20	Peak		

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

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Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal	Test Configuration	1



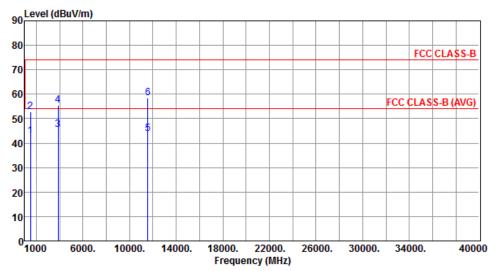
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m		SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	44.01	54.00	-9.99	50.48	-6.47	Average		
2		53.34			59.81	-6.47	Peak		
3	3856.00	49.25	54.00	-4.75	47.33	1.92	Average		
4	3856.00	56.21	74.00	-17.79	54.29	1.92	Peak		
5	11570.00	45.93	54.00	-8.07	30.78	15.15	Average		
6	11570.00	61.15	74.00	-12.85	46.00	15.15	Peak		

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

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Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical	Test Configuration	1



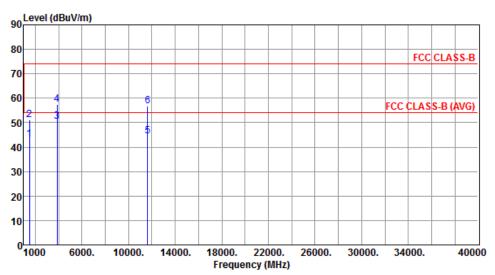
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	J	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	42.86	54.00	-11.14	49.33	-6.47	Average		
2	1500.00	52.71	74.00	-21.29	59.18	-6.47	Peak		
3	3856.00	45.53	54.00	-8.47	43.61	1.92	Average		
4	3856.00	55.31	74.00	-18.69	53.39	1.92	Peak		
5	11570.00	44.00	54.00	-10.00	28.85	15.15	Average		
6	11570.00	58.31	74.00	-15.69	43.16	15.15	Peak		

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

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Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal	Test Configuration	1



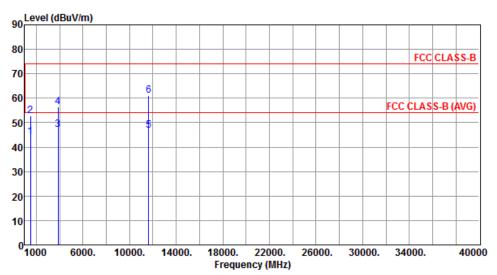
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	43.19	54.00	-10 81	49.66	-6.47	Average		
2		51.07	74.00		57.54	-6.47	Peak		
3		50.49			48.45	2.04	Average		
4	3883.00	57.42	74.00	-16.58	55.38	2.04	Peak		
5	11650.00	44.57	54.00	-9.43	29.46	15.11	Average		
6	11650.00	56.85	74.00	-17.15	41.74	15.11	Peak		

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

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Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical	Test Configuration	1



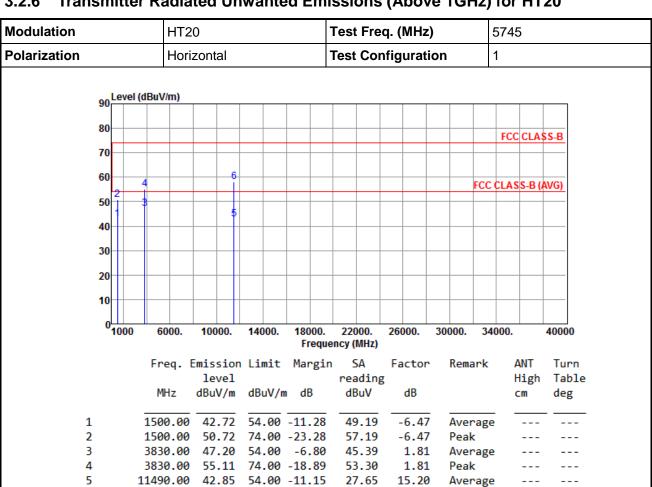
	Freq.	Emission level dBuV/m	Limit dBuV/m		SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	44.14	54.00	-9.86	50.61	-6.47	Average		
2	1500.00				59.33	-6.47	Peak		
3	3883.00	47.23	54.00	-6.77	45.19	2.04	Average		
4	3883.00	56.48	74.00	-17.52	54.44	2.04	Peak		
5	11650.00	46.88	54.00	-7.12	31.77	15.11	Average		
6	11650.00	61.17	74.00	-12.83	46.06	15.11	Peak		

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

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



42.93

15.20

Peak

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

11490.00 58.13 74.00 -15.87

Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

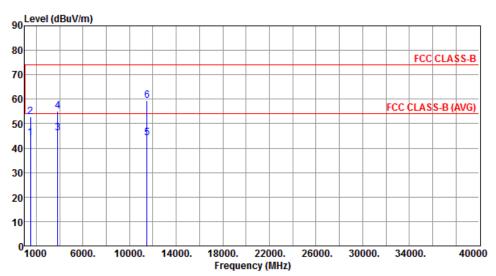
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Modulation	HT20	Test Freq. (MHz)	5745
Polarization	Vertical	Test Configuration	1



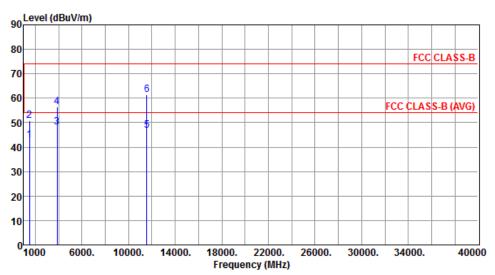
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ü	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	44.00	54.00	-10.00	50.47	-6.47	Average		
2	1500.00	52.64	74.00	-21.36	59.11	-6.47	Peak		
3	3830.00	46.30	54.00	-7.70	44.49	1.81	Average		
4	3830.00	55.27	74.00	-18.73	53.46	1.81	Peak		
5	11490.00	44.28	54.00	-9.72	29.08	15.20	Average		
6	11490.00	59.30	74.00	-14.70	44.10	15.20	Peak		

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

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Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Horizontal	Test Configuration	1



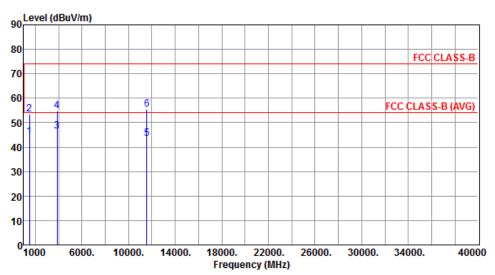
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m		SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	42.88	54 00	-11 12	49.35	-6.47	Average		
2		50.72			57.19	-6.47	Peak		
3	3856.00	48.09	54.00	-5.91	46.17	1.92	Average		
4	3856.00	56.47	74.00	-17.53	54.55	1.92	Peak		
5	11570.00	46.85	54.00	-7.15	31.70	15.15	Average		
6	11570.00	61.41	74.00	-12.59	46.26	15.15	Peak		

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

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Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Vertical	Test Configuration	1



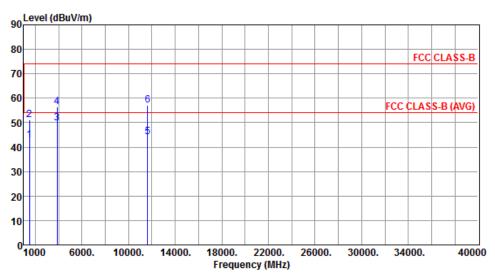
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	44.17	54.00	-9.83	50.64	-6.47	Average		
2		53.31			59.78	-6.47	Peak		
3	3856.00	46.44	54.00	-7.56	44.52	1.92	Average		
4	3856.00	54.84	74.00	-19.16	52.92	1.92	Peak		
5	11570.00	43.59	54.00	-10.41	28.44	15.15	Average		
6	11570.00	55.31	74.00	-18.69	40.16	15.15	Peak		

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

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Modulation	HT20	Test Freq. (MHz)	5825
Polarization	Horizontal	Test Configuration	1



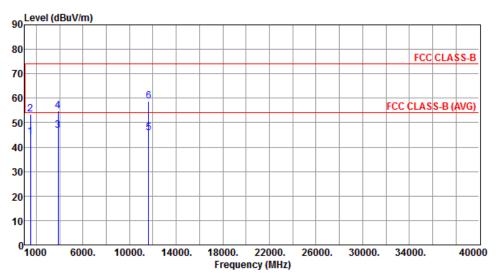
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	42.86	54.00	-11.14	49.33	-6.47	Average		
2		51.29			57.76	-6.47	Peak		
3	3883.00	49.82	54.00	-4.18	47.78	2.04	Average		
4	3883.00	56.56	74.00	-17.44	54.52	2.04	Peak		
5	11650.00	44.15	54.00	-9.85	29.04	15.11	Average		
6	11650.00	57.16	74.00	-16.84	42.05	15.11	Peak		

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

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Modulation	HT20	Test Freq. (MHz)	5825
Polarization	Vertical	Test Configuration	1



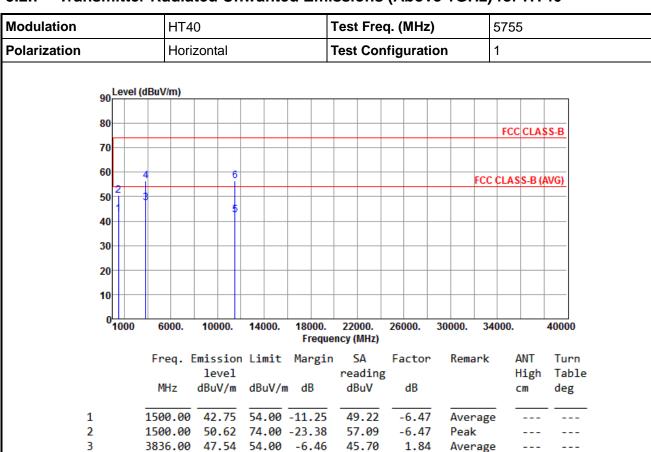
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ü	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	44.04	54.00	-9.96	50.51	-6.47	Average		
_									
2	1500.00	53.30	74.00	-20.70	59.77	-6.47	Peak		
3	3883.00	46.76	54.00	-7.24	44.72	2.04	Average		
4	3883.00	54.70	74.00	-19.30	52.66	2.04	Peak		
5	11650.00	45.89	54.00	-8.11	30.78	15.11	Average		
6	11650.00	58.77	74.00	-15.23	43.66	15.11	Peak		

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

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



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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

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4

5

6

3836.00

11510.00 42.43

56.60

11510.00 56.54 74.00 -17.46

74.00 -17.40

54.00 -11.57

54.76

27.25

41.36

1.84

15.18

15.18

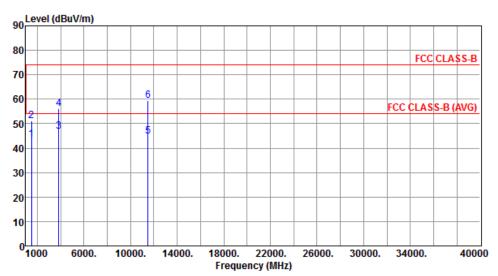
Peak

Peak

Average



Modulation	HT40	Test Freq. (MHz)	5755
Polarization	Vertical	Test Configuration	1



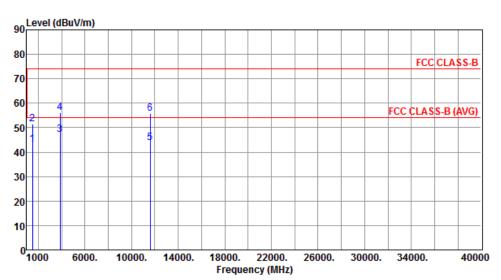
	Freq.	Emission level dBuV/m	Limit dBuV/m	Ü	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	43.64	54.00	-10.36	50.11	-6.47	Average		
2	1500.00	51.01	74.00	-22.99	57.48	-6.47	Peak		
3	3836.00	46.81	54.00	-7.19	44.97	1.84	Average		
4	3836.00	56.04	74.00	-17.96	54.20	1.84	Peak		
5	11510.00	44.67	54.00	-9.33	29.49	15.18	Average		
6	11510.00	59.46	74.00	-14.54	44.28	15.18	Peak		

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

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Modulation	HT40	Test Freq. (MHz)	5795
Polarization	Horizontal	Test Configuration	1



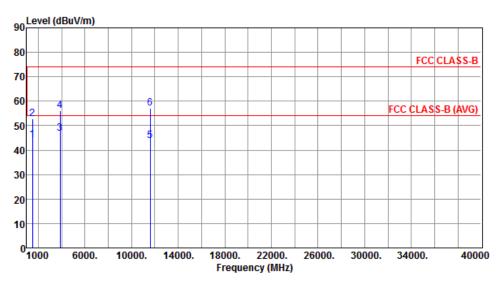
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	43.01	54.00	-10.99	49.48	-6.47	Average		
2	1500.00	51.41	74.00	-22.59	57.88	-6.47	Peak		
3	3863.00	47.18	54.00	-6.82	45.22	1.96	Average		
4	3863.00	56.27	74.00	-17.73	54.31	1.96	Peak		
5	11590.00	43.87	54.00	-10.13	28.73	15.14	Average		
6	11590.00	55.81	74.00	-18.19	40.67	15.14	Peak		

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

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Modulation	HT40	Test Freq. (MHz)	5795
Polarization	Vertical	Test Configuration	1



	Freq.	Emission level	Limit	Margin	SA reading		Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	44.10	54.00	-9.90	50.57	-6.47	Average		
2	1500.00	52.64	74.00	-21.36	59.11	-6.47	Peak		
3	3863.00	46.76	54.00	-7.24	44.80	1.96	Average		
4	3863.00	56.01	74.00	-17.99	54.05	1.96	Peak		
5	11590.00	43.73	54.00	-10.27	28.59	15.14	Average		
6	11590.00	57.00	74.00	-17.00	41.86	15.14	Peak		

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

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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 Corp, 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 Hsiang. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan,

R.O.C.

Kwei Shan

Tel: 886-3-271-8666 No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C. Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 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: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==

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