FCC 47 CFR PART 15 SUBPART E AND ANSI C63.4:2009 TEST REPORT

For

DreamTab HD8

Model: DMTAB-IN08A

Trade Name: nabi

Issued for

Foxconn International Inc.

No.2, Ziyou St., Tucheng Dist., New Taipei City 236, Taiwan

Issued by

Compliance Certification Services Inc. Hsinchu Lab.

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	03/31/2014	Initial Issue	All Page 63	Gloria Chang
01	04/03/2014	Revised & Added Duty Cycle	All Page 65, Page 10-11	Gloria Chang

FCC ID: SIB-DMTAB-IN08A

Report No.: T140312D11-RP1-2

TABLE OF CONTENTS

TITLE PAGE NO. 1. TEST REPORT CERTIFICATION4 3. DESCRIPTION OF TEST MODES6 4. TEST METHODOLOGY7 5. FACILITIES AND ACCREDITATION......7 5.2 ACCREDITATIONS......7 5.3 MEASUREMENT UNCERTAINTY8 6. SETUP OF EQUIPMENT UNDER TEST......9 7. FCC PART 15.407 REQUIREMENTS......10 7.3 MAXIMUM CONDUCTED OUTPUT POWER19-22 7.4 PEAK POWER SPECTRAL DENSITY......23-29 7.5 PEAK EXCURSION30-36 7.7 CONDUCTED EMISSION.......57-61

1. TEST REPORT CERTIFICATION

Applicant : Foxconn International Inc.

Address : No.2, Ziyou St., Tucheng Dist., New Taipei City 236, Taiwan

Equipment Under Test: DreamTab HD8 **Model**: DMTAB-IN08A

Trade Name : nabi

Tested Date : March 12 ~ 28, 2014

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APPLICABLE STANDARD			
Standard	Test Result		
FCC Part 15 Subpart E AND ANSI C63.4:2009	PASS		

WE HEREBY CERTIFY THAT: The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Rex Liao

Deputy Manager

Reviewed by:

Jacky Chen Section Manager

2. EUT DESCRIPTION

Product Name	DreamTab HD8		
Model Number	DMTAB-IN08A		
Identify Number	T140312D11		
Received Date	March 12, 2014		
Fraguency Bongo	IEEE 802.11a, 802.11an HT20 : 5180MHz ~ 5240MHz		
Frequency Range	IEEE 802.11an HT40 : 5190MHz ~ 5230MHz		
	IEEE 802.11a: 11.23dBm (0.0133W)		
Transmit Power	IEEE 802.11an HT20 : 11.12dBm (0.0129W)		
	IEEE 802.11an HT40 : 11.34dBm (0.0136W)		
Channel Spacing	IEEE 802.11a, 802.11an HT20 : 20MHz		
Chamier Spacing	IEEE 802.11an HT40 : 40MHz		
Channel Number	IEEE 802.11a, 802.11an HT20 : 4 Channels		
Chamie Number	IEEE 802.11an HT40 : 2 Channels		
	IEEE 802.11a : 54, 48, 36, 24, 18, 12, 9, 6 Mbps		
Transmit Data Rate	IEEE 802.11n/an HT20 : 72.2, 65, 58.5, 57.8, 52, 43.3, 39, 28.9, 26, 21.7, 19.5, 14.4, 13, 7.2, 6.5Mbps		
	IEEE 802.11n/an HT40 : 150, 135, 121.5, 120, 108, 90, 81, 60, 54, 45, 40.5, 30, 27, 15, 13.5Mbps		
	IEEE 802.11a : OFDM (64QAM, 16QAM, QPSK, BPSK)		
Type of Modulation	IEEE 802.11an HT20/40 : OFDM (64QAM, 16QAM, QPSK, BPSK)		
Antenna Type	PIFA Antenna, Antenna Gain 3.3dBi		
Power Rating	3.7Vdc, 4500mAh, 16.65Wh (For Battery)		
	5Vdc (For Charging)		
Test Voltage	120Vac, 60Hz		
I/O Port	USB Port x 1, Micro SD Port x 1, Audio Port x 1		
Signal Cable	Shielded USB Cable 1m x 1		

Power Adapter:

No.	Manufacturer	Model No.	Power Input	Power Output
1	Chicony	W12-010N3A	100-240Vac, 50/60Hz, 0.3A	5Vdc, 2A

Remark :

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- 2. For more details, please refer to the User's manual of the EUT.
- 3. This submittal(s) (test report) is intended for FCC ID: SIB-DMTAB-IN08A filing to comply with Section 15.207, 15.209 and 15.407 of the FCC Part 15, Subpart E Rules.

3. DESCRIPTION OF TEST MODES

The EUT (DreamTab HD8) had been tested under operating condition.

Conducted Emission / Radiated Emission Test (Below 1 GHz)

1. The following test modes were scanned during the preliminary test:

No.	Pre-Test Mode
1	Charge Mode + Play Video
2	Charge Mode + REC (with Front Camera)
3	Charge Mode + REC (with Back Camera)
4	Normal Operating + Link Notebook PC Read
5	Normal Operating + Link Notebook PC Write

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test Mode				
- Francisco	Radiated Emission	Normal Operating + Link Notebook PC Write		
Emission	Conducted Emission	Charge Mode + Play Video		

Remark : Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

Conducted / Radiated Emission Test (Above 1 GHz)

IEEE 802.11a, 802.11an HT20 mode

The EUT had been tested under operating condition.

There are three channels have been tested as following:

Channel	Frequency (MHz)	
Low	5180	
Middle	5220	
High	5240	

IEEE 802.11a mode: 6Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11an HT20 mode: 6.5Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11an HT40 mode

The EUT had been tested under operating condition.

There are two channels have been tested as following:

Channel	Frequency (MHz)	
Low	5190	
High	5230	

IEEE 802.11an HT40 mode: 13.5Mbps data rate (worst case) were chosen for full testing.

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4: 2009 and FCC CFR 47, 15.207, 15.209 and 15. 407.

5. FACILITIES AND ACCREDITATION

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

NO. 989-1 Wen Shan Rd., Shang Shan Village, Qionglin Shiang Hsinchu County 30741, Taiwan, R.O.C

The sites are constructed in conformance with the requirements of ANSI C63.4:2009 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-5.

5.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Taiwan TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada INDUSTRY CANADA

Japan VCCI

Taiwan BSMI

USA FCC MRA

Copies of granted accreditation certificates are available for downloading from our web site, http:///www.ccsrf.com

5.3 MEASUREMENT UNCERTAINTY

The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2.

PARAMETER	UNCERTAINTY
Semi Anechoic Chamber (966 Chamber_A) / Radiated Emission, 30 to 1000 MHz	+/- 3.59
Semi Anechoic Chamber (966 Chamber_A) / Radiated Emission, 1 to 18GHz	+/- 3.59
Semi Anechoic Chamber (966 Chamber_A) / Radiated Emission, 18 to 26 GHz	+/- 3.59
Semi Anechoic Chamber (966 Chamber_A) / Radiated Emission, 26 to 40 GHz	+/- 3.82
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 30 to 1000 MHz	+/- 3.97
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 1 to 18GHz	+/- 3.58
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 18 to 26 GHz	+/- 3.59
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 26 to 40 GHz	+/- 3.81
Conducted Emission (Mains Terminals), 9kHz to 30MHz	+/- 2.48

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.

6. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

No.	Product	Manufacturer	Model No.	Serial No.	FCC ID
1	Notebook PC	TOSHIBA	M840	9C104267C	DoC
2	LCD Monitor	DELL	2407WFPb	CN-0FC255-4663 3-6CP-06JS	DoC
3	Keyboard	HP	KU-0316	35563-AB1	DoC
4	Mouse	HP	M-UAE96	265986-011	DoC
5	Headset	Acon	CW-010.V		

SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

EUT OPERATING CONDITION

- 1. EUT & peripherals setup diagram is shown in appendix setup photos.
- 2. TX Mode:
 - ⇒ Tx Data Rate: 6Mbps Bandwidth 20 (IEEE 802.11a mode)
 6.5Mbps Bandwidth 20 (IEEE 802.11an HT20 mode)
 13.5Mbps Bandwidth 40 (IEEE 802.11an HT40 mode)
 - **⇒** Power control

IEEE 802.11a Channel Low (5180MHz) Target Power 14
IEEE 802.11a Channel Mid (5220MHz) Target Power 14
IEEE 802.11a Channel High (5240MHz) Target Power 14
IEEE 802.11an HT20 Cannel Low (5180MHz) Target Power 14
IEEE 802.11an HT20 Channel Mid (5220MHz) Target Power 14
IEEE 802.11an HT20 Channel High (5240MHz) Target Power 14
IEEE 802.11an HT40 Channel Low (5190MHz) Target Power 14
IEEE 802.11an HT40 Channel High (5230MHz) Target Power 14

- 3. All of the functions are under run.
- 4. Start test.

7. FCC PART 15.407 REQUIREMENTS

7.1 DUTY CYCLE MEASUREMENT

IEEE 802.11a Mode

Duty Cycle = 2.08 / 2.085 = 0.998

Duty cycle of test signal is 99.8 % > 98 %, duty factor is not required.

IEEE 802.11an HT20 Mode

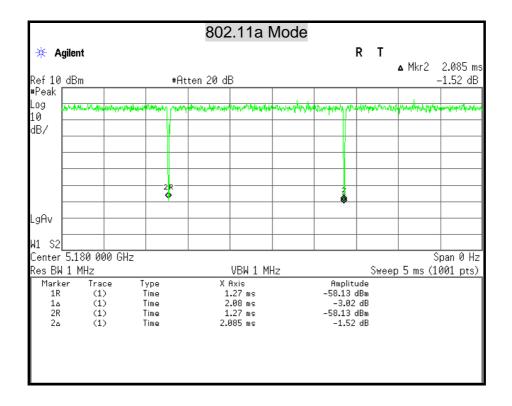
Duty Cycle = 2.097 / 2.089 = 0.995

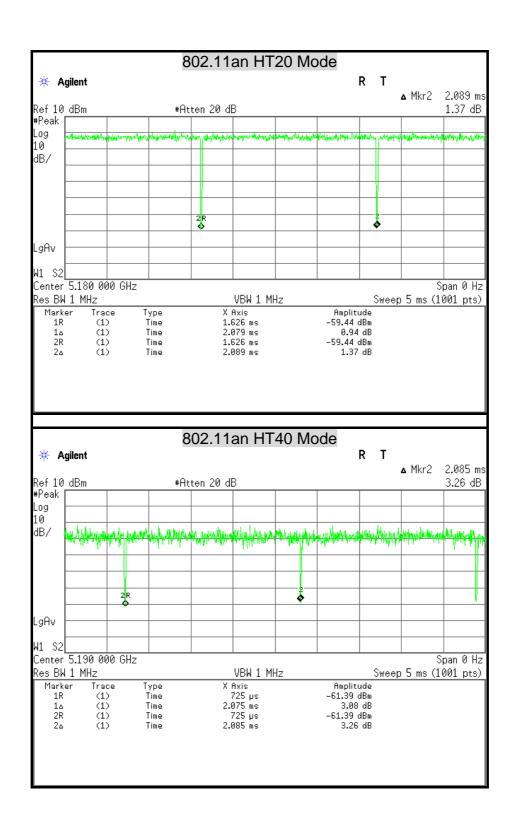
Duty cycle of test signal is 99.5 % > 98 %, duty factor is not required.

IEEE 802.11an HT40 Mode

Duty Cycle = 2.075 / 2.085 = 0.995

Duty cycle of test signal is 99.5 % > 98 %, duty factor is not required.





7.2 26dB BANDWIDTH

LIMITS

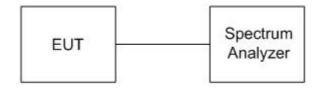
§ 15.303 (c), For purposes of this subpart, the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Determination of the emissions bandwidth is based on the use of measurement instrumentation employing a peak detector function with an instrument resolutions bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2014

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low-loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW > 1%EBW, VBW > RBW, Span = 50MHz and Sweep = auto.
- 4. Mark the -26dBc (upper and lower) frequency of the peak value.
- 5. Repeat until all the rest channels were investigated.

TEST RESULTS

IEEE 802.11a Mode

Channel	Channel Frequency (MHz)	26dB Bandwidth (MHz)	
Low	5180	20.04	
Middle	5220	19.72	
High	5240	19.88	

IEEE 802.11an HT20 Mode

Channel	Channel Frequency (MHz)	26dB Bandwidth (MHz)
Low	5180	20.24
Middle	5220	20.52
High	5240	20.48

IEEE 802.11an HT40 Mode

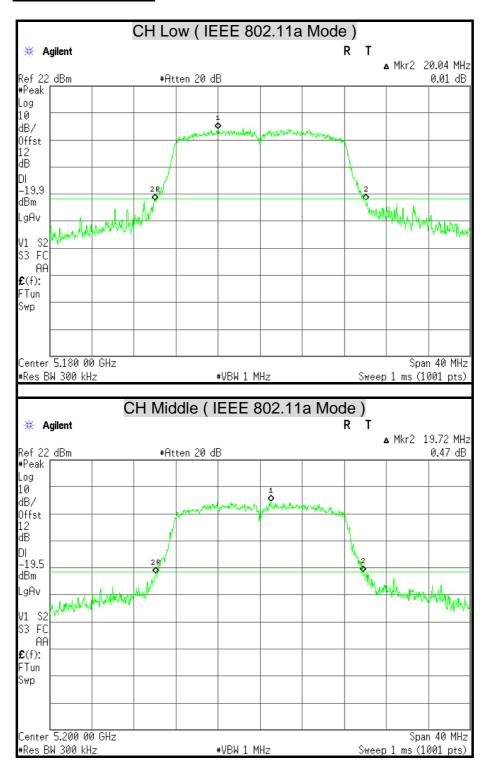
Channel	Channel Frequency (MHz)	26dB Bandwidth (MHz)
Low	5190	45.92
High	5230	45.76

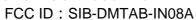


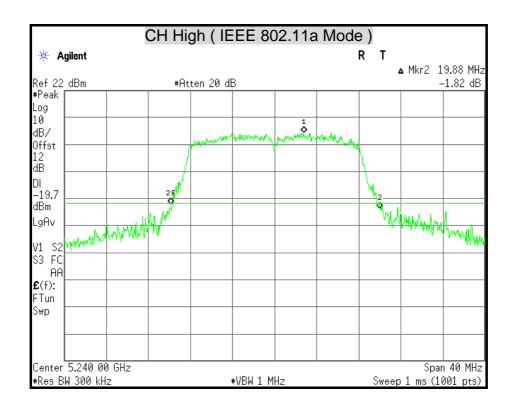
FCC ID: SIB-DMTAB-IN08A

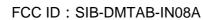
Report No.: T140312D11-RP1-2

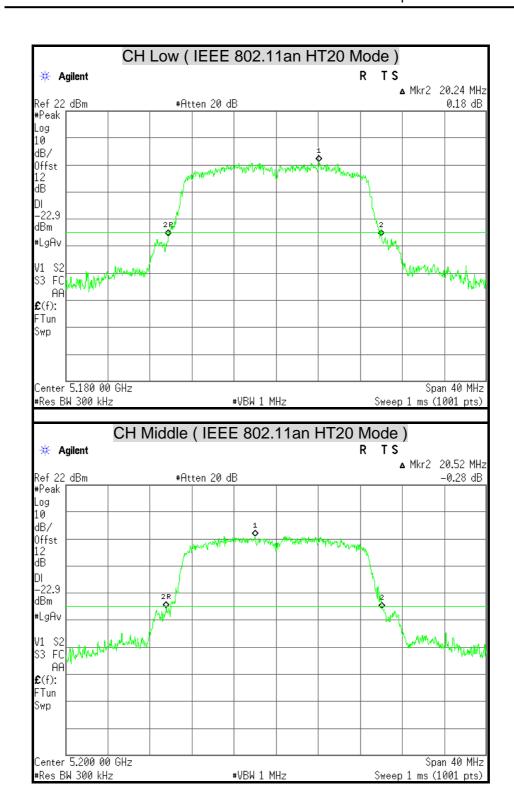
26dB BANDWIDTH

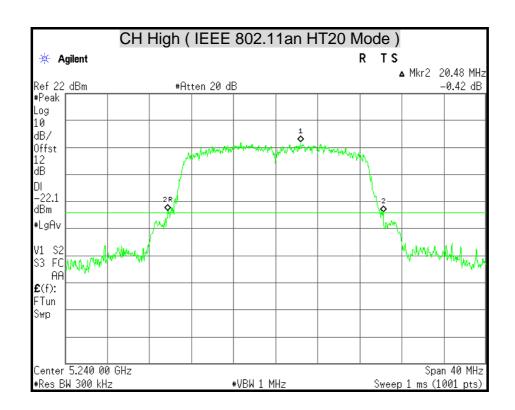


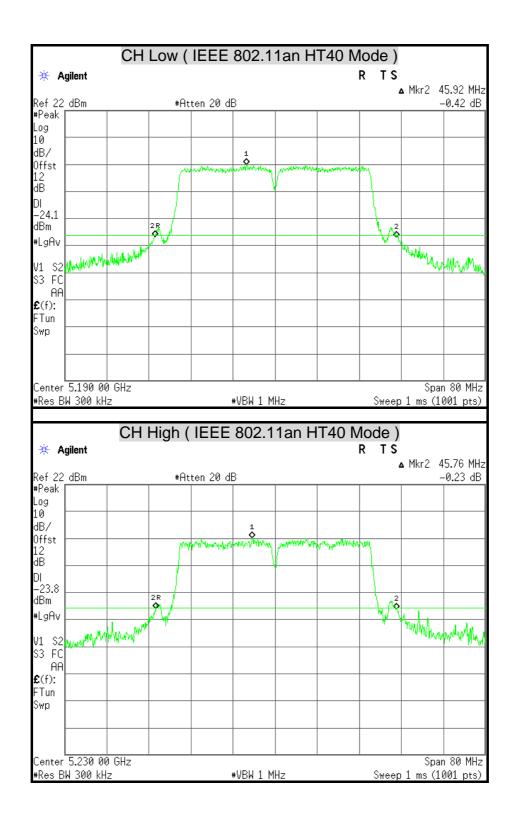












7.3 MAXIMUM CONDUCTED OUTPUT POWER

LIMITS

§ 15.407(a)

- (1) For the band 5.15-5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 50mW (17dBm) or 4dBm + 10log B, where B is the 26dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 4dBm in any 1 MHz band.
- (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26 dB emission bandwidth in MHz.

If transmitting antennas of directional gain greater than 6dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

The power shall not exceeded the limit as follows:

IEEE 802.11a Mode

Channel	Channel Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log B (dB)	4dBm + 10 Log B (dBm)	Maximum Conducted Output Power Limit (dBm)
Low	5180	20.04	13.01898	17.01898	17
Middle	5220	19.72	12.94907	16.94907	17
High	5240	19.88	12.98416	16.98416	17

IEEE 802.11an HT20 Mode

Channel	Channel Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log B (dB)	4dBm + 10 Log B (dBm)	Maximum Conducted Output Power Limit (dBm)
Low	5180	20.24	13.06211	17.06211	17
Middle	5220	20.52	13.12177	17.12177	17
High	5240	20.48	13.11330	17.11330	17



IEEE 802.11an HT40 Mode

Channel	Channel Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log B (dB)	4dBm + 10 Log B (dBm)	Maximum Conducted Output Power Limit (dBm)
Low	5190	45.92	16.62002	20.62002	17
High	5230	45.76	16.60486	20.60486	17



TEST EQUIPMENT

Name of Equipment	of Equipment Manufacturer		Serial Number	Calibration Due
Power Meter	ANRITSU	ML2495A	1149001	12/06/2014
Power Sensor	ANRITSU	MA2411B	1126148	12/06/2014

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to the Power Meter. The Power Meter is set to the power detection.

TEST RESULTS

IEEE 802.11a Mode

Channel	Channel Frequency	71101490101101		Average P	Pass / Fail	
G ildillioi	(MHz)	(dBm)	(W)	(dBm)	(W)	1 400 / 1 4
Low	5180	11.12	0.0129	17	0.0501	PASS
Middle	5220	11.23	0.0133	16.94907	0.0495	PASS
High	5240	11.13	0.0130	16.98416	0.0499	PASS

Remark:

- 1. At finial test to get the worst-case emission at 6Mbps.
- 2. The cable assembly insertion loss of 12 dB (including 10 dB pad and 2 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11an HT20 Mode

Channel	Channel Frequency	_	e Power 3m)	Average Power Limit		Pass / Fail
C inamion	(MHz)	(dBm)	(W)	(dBm)	(W)	1 400 / 1 4.11
Low	5180	11.06	0.0128	16.99289	0.0500	PASS
Middle	5220	11.12	0.0129	17	0.0501	PASS
High	5240	11.07	0.0128	17	0.0501	PASS

Remark:

- 1. At finial test to get the worst-case emission at 6.5Mbps.
- 2. The cable assembly insertion loss of 12 dB (including 10 dB pad and 2 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11an HT40 Mode

Channel	Channel Frequency	Average Power (dBm)		Average P	Pass / Fail	
G ildillioi	(MHz)	(dBm)	(W)	(dBm)	(W)	1 455 / 1 4.11
Low	5190	11.32	0.0136	16.99289	0.0500	PASS
High	5230	11.34	0.0136	17	0.0501	PASS

Remark:

- 1. At finial test to get the worst-case emission at 13.5Mbps.
- 2. The cable assembly insertion loss of 12 dB (including 10 dB pad and 2 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.

7.4 PEAK POWER SPECTRAL DENSITY

LIMITS

§ 15.407 (a)

- (1) For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 4dBm in any 1MHz band.
- (2) For the band 5.25-5.35 GHz and 5.47-5725 GHz, the peak power spectral density shall not exceed 11dBm in any 1MHz band.

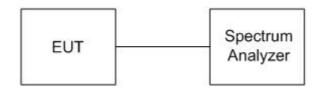
If transmitting antennas of directional gain greater than 6dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

TEST EQUIPMENT

Name of Equipment	e of Equipment Manufacturer		Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2014

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

- Place the EUT on the table and set it in transmitting mode.
 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span = Sweep= AUTO
- 3. Record the max. reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed.

TEST RESULTS

IEEE 802.11a Mode

Channel	Channel Frequency (MHz)	PPSD (dBm)	Minimum Limit (dBm)	Pass / Fail
Low	5180	3.54	4	PASS
Middle	5220	3.37	4	PASS
High	5240	3.66	4	PASS

Remark:

- 1. At finial test to get the worst-case emission at 6Mbps.
- 2. The cable assembly insertion loss of 12 dB (including 10 dB pad and 2dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11an HT20 Mode

Channel	Channel Frequency (MHz)	PPSD (dBm)	Minimum Limit (dBm)	Pass / Fail
Low	5180	0.26	4	PASS
Middle	5220	0.60	4	PASS
High	5240	0.81	4	PASS

Remark:

- 1. At finial test to get the worst-case emission at 6.5Mbps.
- 2. The cable assembly insertion loss of 12 dB (including 10 dB pad and 2dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

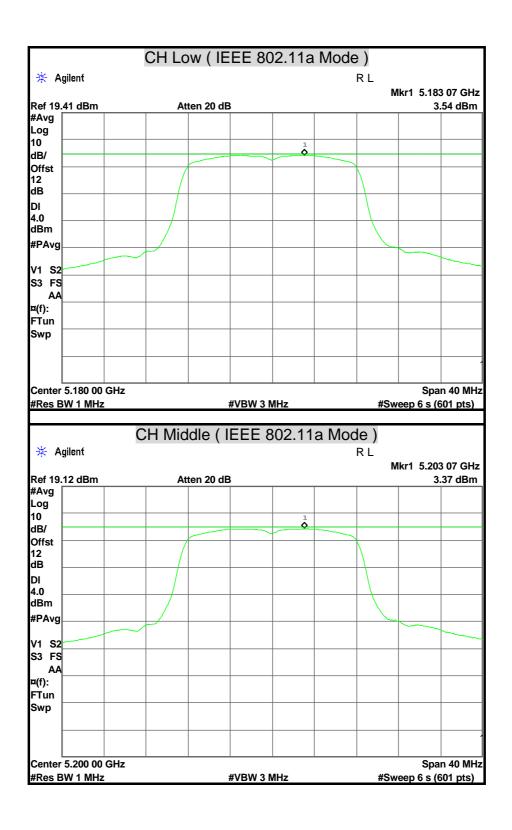
IEEE 802.11n HT40 Mode

Channel	Channel Frequency (MHz)	PPSD (dBm)	Minimum Limit (dBm)	Pass / Fail	
Low	5190	-2.36	4	PASS	
High	5230	-0.95	4	PASS	

Remark:

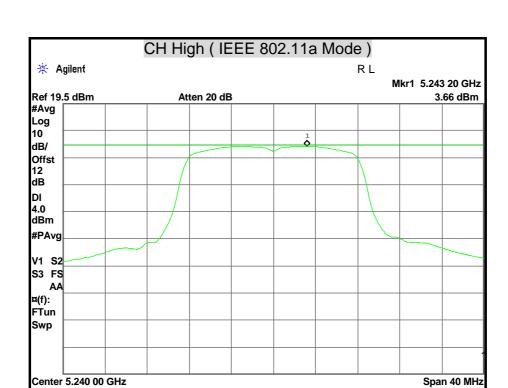
- 1. At finial test to get the worst-case emission at 13.5Mbps.
- 2. The cable assembly insertion loss of 12 dB (including 10 dB pad and 2dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

FCC ID: SIB-DMTAB-IN08A



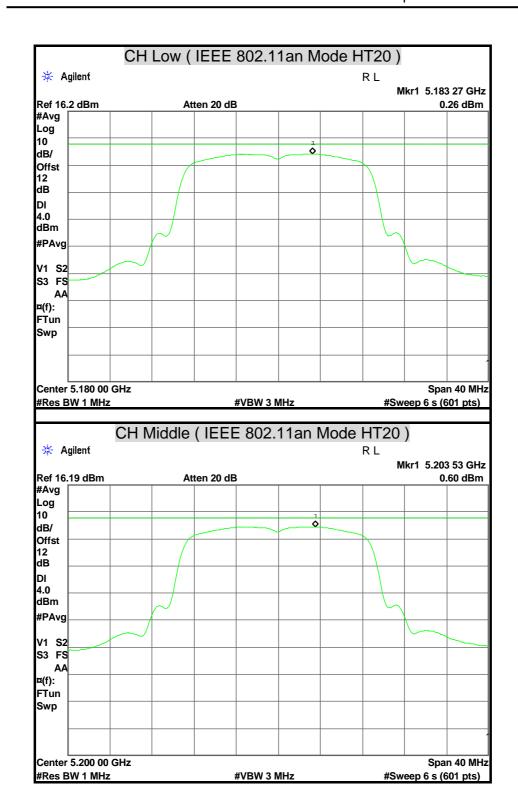
#Res BW 1 MHz

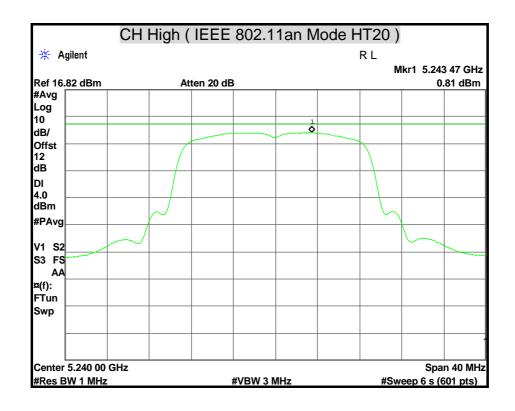
#Sweep 6 s (601 pts)



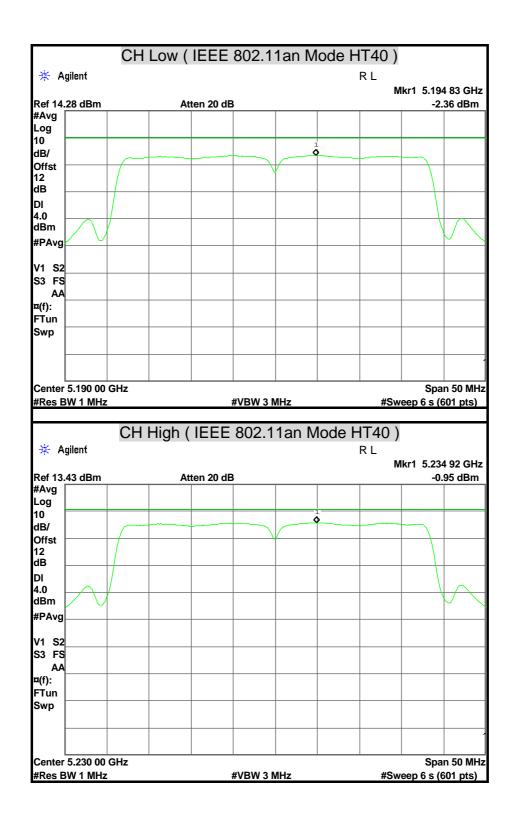
#VBW 3 MHz

FCC ID: SIB-DMTAB-IN08A











7.5 PEAK EXCURSION

LIMITS

§ 15.407 (a) (6), the ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2014

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The test is performed in accordance with <FCC Public Notice: APPENDIX A Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices> – Part 15, Subpart E, August 2002.

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum.
- 3. Trace A, Set RBW =1MHz, VBW = 3MHz, Span > 26dB Bandwidth, Max. hold. Trace B, Set RBW =1MHz, VBW = 3MHz, Span > 26dB Bandwidth, Setup sample detector and power average mode, to scan 100 times with average.
- 4. Delta Mark trace A Maximum frequency and trace B same frequency.
- 5. Repeat the above procedure until measurements for all frequencies were complete.

TEST RESULTS

IEEE 802.11a Mode

Channel	Channel Frequency (MHz)	Peak Excursion (dB)	Limit (dBm)	Margin (dB)	Pass / Fail
Low	5180	9.98	13	-3.02	PASS
Middle	5220	9.97	13	-3.03	PASS
High	5240	9.43	13	3.57	PASS

Remark: At finial test to get the worst-case emission at 6Mbps.

IEEE 802.11an HT20 Mode

Channel	Channel Frequency (MHz)	Peak Excursion (dB)	Limit (dBm)	Margin (dB)	Pass / Fail
Low	5180	10.01	13	-2.99	PASS
Middle	5220	10.31	13	-2.69	PASS
High	5240	10.05	13	-2.95	PASS

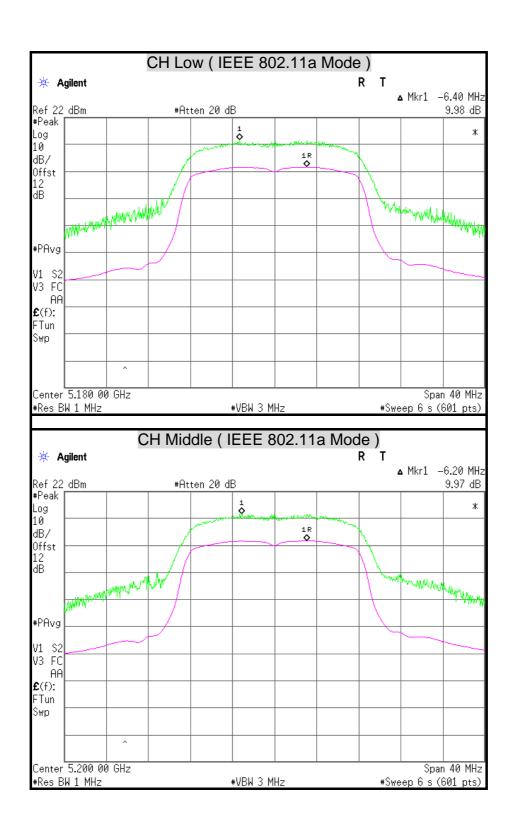
Remark: At finial test to get the worst-case emission at 6.5Mbps.

IEEE 802.11an HT40 Mode

Channel	Channel Frequency (MHz)	Peak Excursion (dB)	Limit (dBm)	Margin (dB)	Pass / Fail
Low	5190	10.99	13	-2.01	PASS
High	5230	10.75	13	-2.25	PASS

Remark: At finial test to get the worst-case emission at 13.5Mbps.

FCC ID: SIB-DMTAB-IN08A

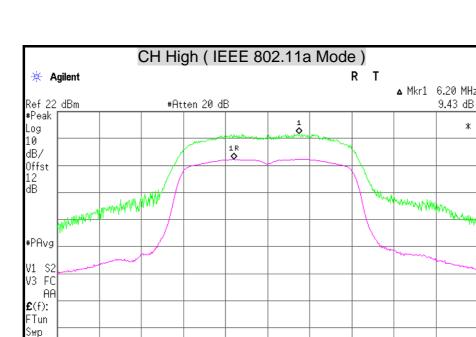


Center 5.240 00 GHz

#Res BW 1 MHz

Span 40 MHz

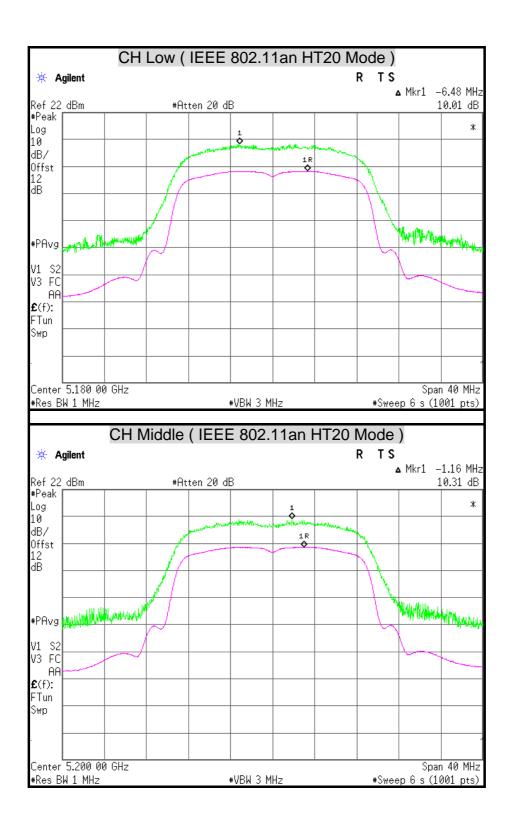
#Sweep 6 s (601 pts)

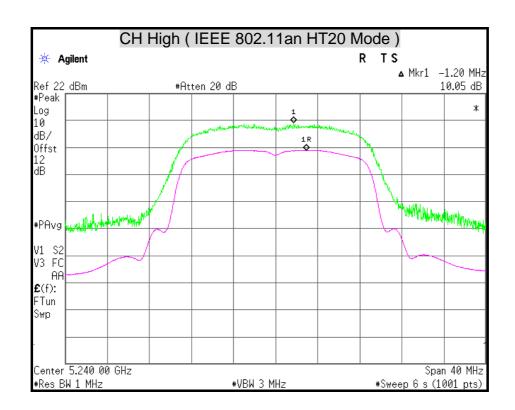


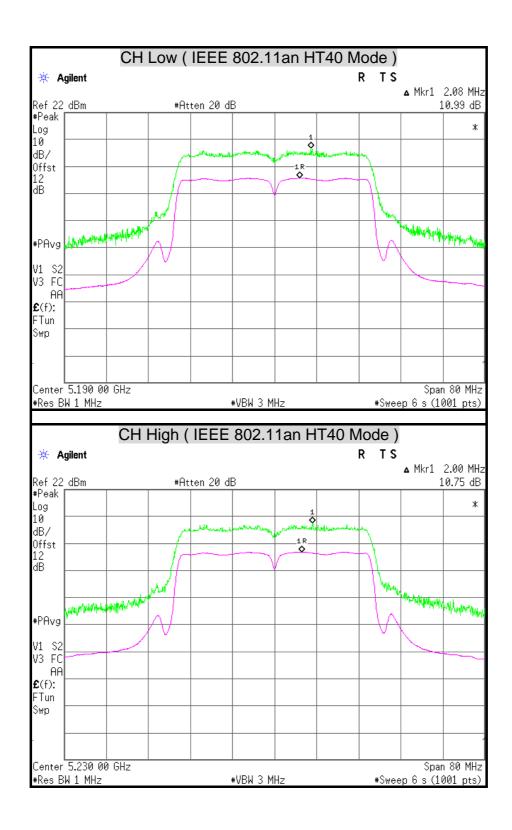
#VBW 3 MHz



FCC ID: SIB-DMTAB-IN08A









7.6 RADIATED EMISSION

LIMITS

(1) According to § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 -1710	10.6 -12.7
6.26775 - 6.26825	108 -121.94	1718.8 - 1722.2	13.25 -13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 – 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 -16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 -335.4	3600 - 4400	(²)
13.36 - 13.41			

Remark:

(2) According to § 15.205 (b) Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

^{1. 1} Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

^{2. &}lt;sup>2</sup> Above 38.6



(3) According to § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(KHz)	300
0.490 – 1.705	24000/F(KHz)	30
1.705 – 30.0	30	30
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

Remark: **Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

(4) According to § 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST EQUIPMENT

Radiated Emission / 966Chamber A

Name of Equipment	Name of Equipment Manufacturer		Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2014
EMI Receiver	ROHDE & SCHWARZ	ESCI	100221	04/29/2014
Bi-log Antenna	Bi-log Antenna SCHWARZBECK		9168-249	09/12/2014
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-778	09/12/2014
Pre-Amplifier	Agilent	8449B	3008A01471	07/16/2014
Pre-Amplifier	HP	8447F	2944A03748	07/16/2014
Band Reject Notch Filter	Micro-Tronics	BRM05702-01	009	N.C.R

Remark: 1. Each piece of equipment is scheduled for calibration once a year.

2. N.C.R = No Calibration Request.

Radiated Emission / 966Chamber_B

Name of Equipment	Manufacturer	Manufacturer Model		Calibration Due	
Spectrum Analyzer	Agilent	E4446A	MY46180323	04/15/2014	
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101387	10/09/2014	
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-778	09/12/2014	
Bi-log Antenna	SCHWARZBECK	VULB 9168	9168-250	09/12/2014	
Double-Ridged Waveguide Horn	ETS-LINDGREN	3117	00078733	12/05/2014	
Horn Antenna	COM-POWER	AH-840	03077	12/18/2014	
Pre-Amplifier	Agilent	8447D	2944A10052	07/16/2014	
Pre-Amplifier	Agilent	8449B	3008A01916	07/16/2014	
LOOP Antenna	EMCO	6502	8905-2356	08/20/2014	
Band Reject Filter	Micro-Tronics	BRC50703-01	004	N.C.R.	

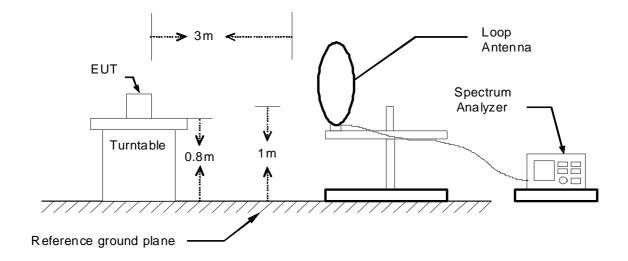
Remark: 1. Each piece of equipment is scheduled for calibration once a year.

2. N.C.R = No Calibration Request.

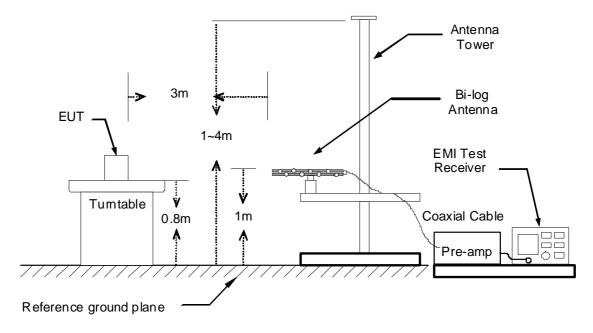
TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission below 1GHz.

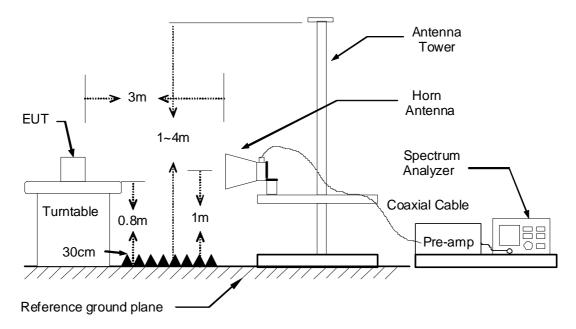
9kHz ~ 30MHz



30MHz ~ 1GHz



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.





TEST PROCEDURE

- 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
- 3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Remark:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

FCC ID: SIB-DMTAB-IN08A

TEST RESULTS

Below 1 GHz (9kHz ~ 30MHz)

No emission found between lowest internal used/generated frequency to 30MHz.

Below 1 GHz (30MHz ~ 1GHz)

Product Name	DreamTab HD8	Test By	Alan Wu
Test Model	DMTAB-IN08A	Test Date	2014/03/25
Test Mode	Normal Operating + Link Notebook PC Write	Temp. & Humidity	24°C, 50%

Report No.: T140312D11-RP1-2

966 Chamber_A at 3Meter / Horizontal											
Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m) Result Limit (dBµV/m)		Margin (dB)	Remark						
66.86	36.24	-11.66	24.58	40.00	-15.42	Peak					
159.98	38.26	-9.89	28.37	43.50	-15.13	Peak					
239.52	48.02	-11.16	36.86	46.00	-9.14	Peak					
421.88	42.00	-5.67	36.34	46.00	-9.66	Peak					
600.36	41.30	-1.83	39.47	46.00	-6.53	Peak					
961.20	31.93	4.34	36.27	54.00	-17.73	Peak					
1000.00	32.56	4.76	37.32	74.00	-36.68	Peak					

966 Chamber_A at 3Meter / Vertical												
Frequency (MHz)	Reading (dBµV)	S I Factor I		Limit (dBµV/m)	Margin (dB)	Remark						
158.04	39.43	-9.92	29.51	43.50	-13.99	Peak						
239.52	48.98	-11.16	37.81	46.00	-8.19	Peak						
419.94	43.10	-5.73	37.37	46.00	-8.63	Peak						
482.02	43.51	-4.26	39.25	46.00	-6.75	Peak						
600.36	45.40	-1.83	43.57	46.00	-2.43	Peak						
840.92	33.99	2.08	36.07	46.00	-9.93	Peak						
901.06	32.00	3.43	35.43	46.00	-10.57	Peak						
961.20	29.84	4.34	34.18	54.00	-19.82	Peak						

Remark:

- 1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
- 2. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) PreAmp.Gain (dB)
- 4. Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)
- 5. Margin (dB) = Remark result (dBuV/m) Quasi-peak limit (dBuV/m).



Compliance Certification Services Inc.

FCC ID: SIB-DMTAB-IN08A Report No.: T140312D11-RP1-2

Above 1 GHz

Product Name	DreamTab HD8	Test By	Rueyyan Lin
Test Model	DMTAB-IN08A	Test Date	2014/03/25
Test Mode	IEEE 802.11a TX / CH Low	Temp. & Humidity	25°C, 49%

966 Chamber_B at 3Meter / Horizontal											
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark		
1125.00	53.98		-4.18	49.79		74.00	54.00	-4.21	Peak		
1425.00	54.06		-3.48	50.59		74.00	54.00	-3.41	Peak		
1550.00	52.62		-2.75	49.88		74.00	54.00	-4.12	Peak		
1755.00	52.16		-0.48	51.67		74.00	54.00	-2.33	Peak		
5150.00	60.06	43.45	9.44	69.50	52.89	74.00	54.00	-1.11	AVG		
6264.00	37.16		11.82	48.98		74.00	54.00	-5.02	Peak		
6744.00	39.05		12.40	51.45		74.00	54.00	-2.55	Peak		
7728.00	37.78		13.74	51.52		74.00	54.00	-2.48	Peak		
		9	66 Chaml	ber_B at 3	3Meter / V	ertical					
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark		
1090.00	57.42		-4.27	53.15		74.00	54.00	-0.85	Peak		
1255.00	53.45		-3.88	49.57		74.00	54.00	-4.43	Peak		
1380.00	53.16		-3.58	49.58		74.00	54.00	-4.42	Peak		
1720.00	51.78		-0.87	50.91		74.00	54.00	-3.09	Peak		
5150.00	57.71	43.33	9.44	67.15	52.77	74.00	54.00	-1.23	AVG		

Remark:

6192.00

6660.00

7560.00

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

11.63

12.43

13.84

3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

48.45

50.11

52.10

74.00

74.00

74.00

54.00

54.00

54.00

-5.55

-3.89

-1.90

Peak

Peak

Peak

- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

36.82

37.68

38.26

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

Product Name	Product Name DreamTab HD8		Rueyyan Lin
Test Model	DMTAB-IN08A	Test Date	2014/03/25
Test Mode	IEEE 802.11a TX / CH Middle	Temp. & Humidity	25°C, 49%

	966 Chamber_B at 3Meter / Horizontal												
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark				
1005.00	54.38		-4.47	49.91		74.00	54.00	-4.09	Peak				
1310.00	53.34		-3.75	49.59		74.00	54.00	-4.41	Peak				
1505.00	53.64		-3.24	50.40		74.00	54.00	-3.60	Peak				
1705.00	51.66		-1.04	50.63		74.00	54.00	-3.37	Peak				
6108.00	37.91		11.40	49.31		74.00	54.00	-4.69	Peak				
6540.00	37.80		12.46	50.26		74.00	54.00	-3.74	Peak				
7584.00	38.35		13.83	52.18		74.00	54.00	-1.82	Peak				
1									-				

	966 Chamber_B at 3Meter / Vertical													
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)		Limit-AV (dBuV/m)	Margin (dB)	Remark					
1065.00	55.10		-4.33	50.77		74.00	54.00	-3.23	Peak					
1205.00	53.39		-4.00	49.40		74.00	54.00	-4.60	Peak					
1330.00	52.93		-3.70	49.23		74.00	54.00	-4.77	Peak					
1725.00	52.44		-0.82	51.63		74.00	54.00	-2.37	Peak					
6228.00	37.33		11.72	49.05		74.00	54.00	-4.95	Peak					
6804.00	38.74		12.38	51.13		74.00	54.00	-2.87	Peak					
7620.00	38.11		13.81	51.92		74.00	54.00	-2.08	Peak					

Remark

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)



Product Name	DreamTab HD8	Test By	Rueyyan Lin
Test Model	DMTAB-IN08A	Test Date	2014/03/25
Test Mode	IEEE 802.11a TX / CH High	Temp. & Humidity	25°C, 49%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1035.00	54.19		-4.40	49.79		74.00	54.00	-4.21	Peak
1185.00	54.33		-4.04	50.29		74.00	54.00	-3.71	Peak
1400.00	53.30		-3.54	49.76		74.00	54.00	-4.24	Peak
1615.00	51.88		-2.03	49.85		74.00	54.00	-4.15	Peak
6156.00	36.99		11.53	48.52		74.00	54.00	-5.48	Peak
6732.00	38.22		12.41	50.62		74.00	54.00	-3.38	Peak
7620.00	38.24		13.81	52.05		74.00	54.00	-1.95	Peak

	966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark	
1045.00	53.72		-4.37	49.34		74.00	54.00	-4.66	Peak	
1420.00	52.81		-3.49	49.32		74.00	54.00	-4.68	Peak	
1595.00	53.41		-2.25	51.16		74.00	54.00	-2.84	Peak	
1825.00	51.43		0.29	51.71		74.00	54.00	-2.29	Peak	
6144.00	38.84		11.49	50.34		74.00	54.00	-3.66	Peak	
6744.00	38.00		12.40	50.40		74.00	54.00	-3.60	Peak	
7620.00	38.62		13.81	52.43		74.00	54.00	-1.57	Peak	

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

Margin = Result - Limit

 $Remark\ Peak = Result(PK) - Limit(AV)$



Product Name	DreamTab HD8	Test By	Rueyyan Lin
Test Model	DMTAB-IN08A	Test Date	2014/03/25
Test Mode	IEEE 802.11an HT20 TX / CH Low	Temp. & Humidity	25°C, 49%

		96	6 Chambe	er_B at 3N	/leter / Ho	rizontal			
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1080.00	54.93		-4.29	50.64		74.00	54.00	-3.36	Peak
1240.00	53.77		-3.91	49.86		74.00	54.00	-4.14	Peak
1345.00	53.96		-3.67	50.29		74.00	54.00	-3.71	Peak
1615.00	53.50		-2.03	51.47		74.00	54.00	-2.53	Peak
5150.00	60.03	43.24	9.44	69.47	52.68	74.00	54.00	-1.32	AVG
6192.00	37.70		11.63	49.33		74.00	54.00	-4.67	Peak
6696.00	37.65		12.42	50.06		74.00	54.00	-3.94	Peak
7416.00	37.65		13.62	51.27		74.00	54.00	-2.73	Peak
		9	66 Chaml	per_B at 3	3Meter / V	ertical			
Frequency	Reading-	Reading-	C						
(MHz)	PK (dBuV)	AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
(MHz) 1095.00		AV	Factor			-		Margin (dB)	Remark AVG
	(dBuV)	AV (dBuV)	Factor (dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(l
1095.00	(dBuV) 62.32	AV (dBuV) 44.20	Factor (dB/m) -4.26	(dBuV/m) 58.06	(dBuV/m) 39.94	(dBuV/m) 74.00	(dBuV/m) 54.00	-14.06	AVG
1095.00 1170.00	(dBuV) 62.32 54.73	AV (dBuV) 44.20	Factor (dB/m) -4.26 -4.08	(dBuV/m) 58.06 50.66	(dBuV/m) 39.94 	(dBuV/m) 74.00 74.00	(dBuV/m) 54.00 54.00	-14.06 -3.34	AVG Peak
1095.00 1170.00 1310.00	(dBuV) 62.32 54.73 54.62	AV (dBuV) 44.20	Factor (dB/m) -4.26 -4.08 -3.75	(dBuV/m) 58.06 50.66 50.87	(dBuV/m) 39.94 	74.00 74.00 74.00 74.00	(dBuV/m) 54.00 54.00 54.00	-14.06 -3.34 -3.13	AVG Peak Peak
1095.00 1170.00 1310.00 1610.00	(dBuV) 62.32 54.73 54.62 53.23	AV (dBuV) 44.20	Factor (dB/m) -4.26 -4.08 -3.75 -2.09	(dBuV/m) 58.06 50.66 50.87 51.14	(dBuV/m) 39.94 	74.00 74.00 74.00 74.00 74.00	54.00 54.00 54.00 54.00 54.00	-14.06 -3.34 -3.13 -2.86	AVG Peak Peak Peak
1095.00 1170.00 1310.00 1610.00 5150.00	(dBuV) 62.32 54.73 54.62 53.23 58.15	AV (dBuV) 44.20 43.16	Factor (dB/m) -4.26 -4.08 -3.75 -2.09 9.44	(dBuV/m) 58.06 50.66 50.87 51.14 67.59	39.94 52.60	74.00 74.00 74.00 74.00 74.00 74.00	54.00 54.00 54.00 54.00 54.00 54.00	-14.06 -3.34 -3.13 -2.86 -1.40	AVG Peak Peak Peak AVG

Remark:

7488.00

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

13.84

3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

52.74

74.00

54.00

-1.26

Peak

- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

38.90

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)



Product Name	DreamTab HD8	Test By	Rueyyan Lin
Test Model	DMTAB-IN08A	Test Date	2014/03/25
Test Mode	IEEE 802.11an HT20 TX / CH Middle	Temp. & Humidity	25°C, 49%

		96	6 Chambe	er_B at 3N	Meter / Ho	rizontal			
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1015.00	54.65		-4.44	50.20		74.00	54.00	-3.80	Peak
1220.00	54.28		-3.96	50.32		74.00	54.00	-3.68	Peak
1440.00	53.66		-3.44	50.22		74.00	54.00	-3.78	Peak
3065.00	54.42	40.60	4.83	59.25	45.43	74.00	54.00	-8.57	AVG
6372.00	38.17		12.12	50.29		74.00	54.00	-3.71	Peak
6840.00	37.99		12.37	50.36		74.00	54.00	-3.64	Peak
7668.00	38.27		13.78	52.04		74.00	54.00	-1.96	Peak
		9	66 Chaml	ber_B at 3	3Meter / V	ertical			
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)		Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1015.00	55.58		-4.44	51.14		74.00	54.00	-2.86	Peak
1190.00	54.42		-4.03	50.39		74.00	54.00	-3.61	Peak
1400.00	53.35		-3.54	49.82		74.00	54.00	-4.18	Peak
1565.00	53.48		-2.58	50.90		74.00	54.00	-3.10	Peak
6168.00	37.21		11.56	48.77		74.00	54.00	-5.23	Peak
	1	1	1	1	1	1	1	I	

Remark:

6876.00

7524.00

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

12.36

13.87

3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

74.00

74.00

54.00

54.00

-4.17

-2.26

Peak

Peak

49.83

51.74

- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

37.46

37.88

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)



Product Name	DreamTab HD8	Test By	Rueyyan Lin
Test Model	DMTAB-IN08A	Test Date	2014/03/25
Test Mode	IEEE 802.11an HT20 TX / CH High	Temp. & Humidity	25°C, 49%

		96	6 Chambe	er_B at 3N	Meter / Ho	rizontal			
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1015.00	53.92		-4.44	49.47		74.00	54.00	-4.53	Peak
1200.00	54.21		-4.01	50.21		74.00	54.00	-3.79	Peak
1470.00	53.38		-3.37	50.01		74.00	54.00	-3.99	Peak
3105.00	53.50	40.68	4.87	58.37	45.55	74.00	54.00	-8.45	AVG
6396.00	37.81		12.19	49.99		74.00	54.00	-4.01	Peak
6852.00	38.23		12.37	50.60		74.00	54.00	-3.40	Peak
7740.00	37.71		13.73	51.44		74.00	54.00	-2.56	Peak
		9	66 Chaml	ber_B at 3	3Meter / V	ertical			
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1090.00	66.33	46.31	-4.27	62.06	42.04	74.00	54.00	-11.96	AVG
1185.00	54.75		-4.04	50.71		74.00	54.00	-3.29	Peak
1500.00	53.77		-3.30	50.47		74.00	54.00	-3.53	Peak
1670.00	53.06		-1.42	51.63		74.00	54.00	-2.37	Peak
6192.00	37.67		11.63	49.30		74.00	54.00	-4.70	Peak
	1	1	1	1	1	1		I	

Remark:

6672.00

7764.00

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

12.42

13.72

3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

74.00

74.00

54.00

54.00

-3.56

-1.79

Peak

Peak

50.44

52.21

- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

38.01

38.50

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)



Product Name	DreamTab HD8	Test By	Rueyyan Lin
Test Model	DMTAB-IN08A	Test Date	2014/03/25
Test Mode	IEEE 802.11an HT40 TX / CH Low	Temp. & Humidity	25°C, 49%

		96	6 Chambe	er_B at 3N	Meter / Ho	rizontal			
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1070.00	55.42		-4.31	51.10		74.00	54.00	-2.90	Peak
1375.00	54.36		-3.60	50.76		74.00	54.00	-3.24	Peak
1615.00	53.71		-2.03	51.68		74.00	54.00	-2.32	Peak
5150.00	63.50	44.30	9.44	72.94	53.74	74.00	54.00	-0.26	AVG
6060.00	37.44		11.26	48.70		74.00	54.00	-5.30	Peak
6600.00	37.66		12.44	50.10		74.00	54.00	-3.90	Peak
7644.00	37.68		13.79	51.47		74.00	54.00	-2.53	Peak
		9	66 Chaml	ber_B at 3	3Meter / V	ertical			
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1135.00	54.88		-4.16	50.72		74.00	54.00	-3.28	Peak
1595.00	54.29		-2.25	52.04		74.00	54.00	-1.96	Peak
1835.00	52.30		0.40	52.70		74.00	54.00	-1.30	Peak
5150.00	63.77	44.20	9.44	73.21	53.64	74.00	54.00	-0.36	AVG
6060.00	37.16		11.26	48.42		74.00	54.00	-5.58	Peak
6684.00	38.03		12.42	50.45		74.00	54.00	-3.55	Peak
7644.00	37.96		13.79	51.75		74.00	54.00	-2.25	Peak

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)



Product Name	DreamTab HD8	Test By	Rueyyan Lin
Test Model	DMTAB-IN08A	Test Date	2014/03/25
Test Mode	IEEE 802.11an HT40 TX / CH High	Temp. & Humidity	25°C, 49%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading- PK (dBuV)			Result-PK (dBuV/m)	Result-AV	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1015.00	55.39		-4.44	50.95		74.00	54.00	-3.05	Peak
1345.00	54.64		-3.67	50.97		74.00	54.00	-3.03	Peak
1770.00	52.35		-0.32	52.04		74.00	54.00	-1.96	Peak
5150.00	54.96	39.61	9.45	64.41	49.06	74.00	54.00	-4.94	AVG
6156.00	38.28		11.53	49.81		74.00	54.00	-4.19	Peak
6696.00	38.53		12.42	50.95		74.00	54.00	-3.05	Peak
7548.00	37.23		13.85	51.08		74.00	54.00	-2.92	Peak
		9	66 Chaml	ber_B at 3	3Meter / V	ertical			
Frequency (MHz)	Reading- PK (dBuV)	Reading- AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1080.00	55.09		-4.29	50.80		74.00	54.00	-3.20	Peak
1405.00	54.51		-3.52	50.98		74.00	54.00	-3.02	Peak
1835.00	52.27		0.40	52.67		74.00	54.00	-1.33	Peak
5150.00	54.36	39.24	9.44	63.80	48.68	74.00	54.00	-5.32	AVG
6060.00	36.84		11.26	48.11		74.00	54.00	-5.89	Peak

Remark:

6576.00

7548.00

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

12.45

13.85

3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

50.51

52.07

74.00

74.00

-3.49

-1.93

Peak

Peak

54.00

54.00

- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

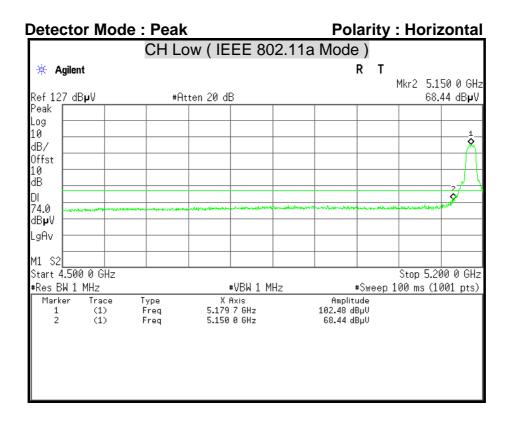
38.06

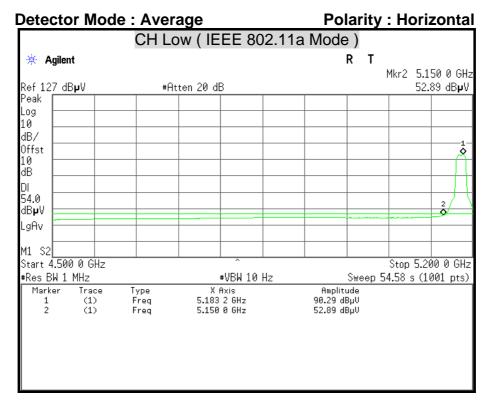
38.22

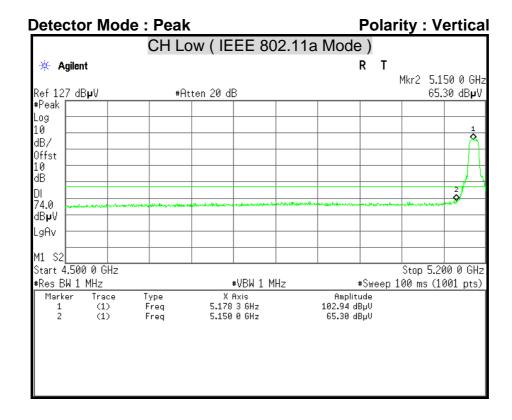
Margin = Result - Limit

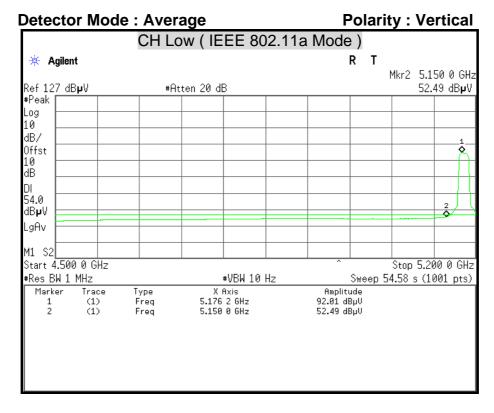
Remark Peak = Result(PK) - Limit(AV)

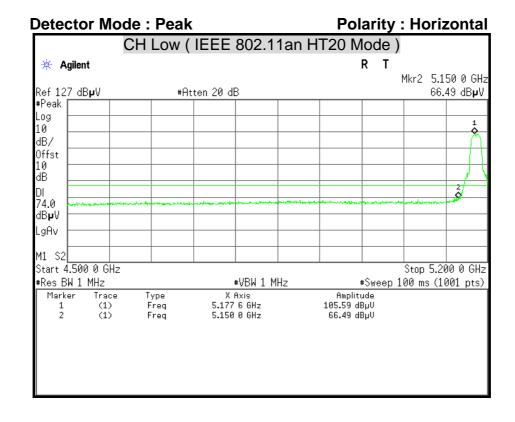
Restricted Band Edges

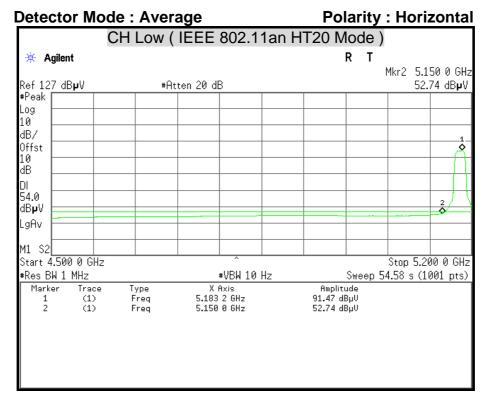


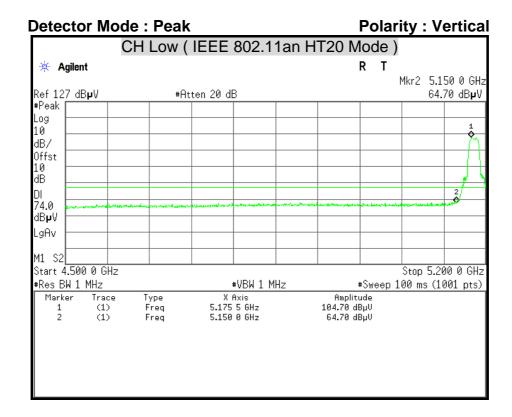


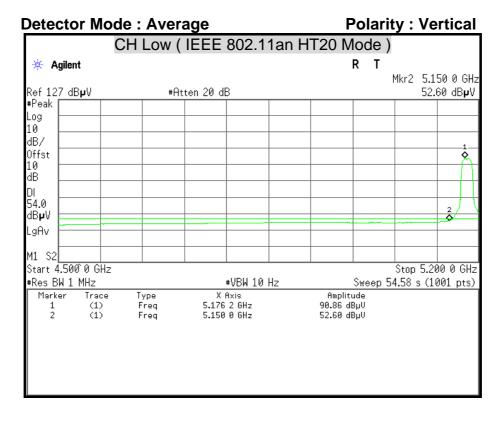




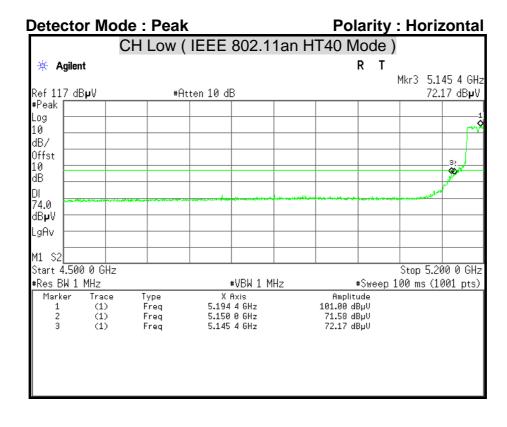


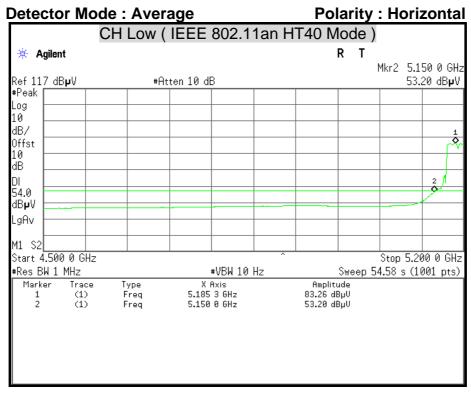


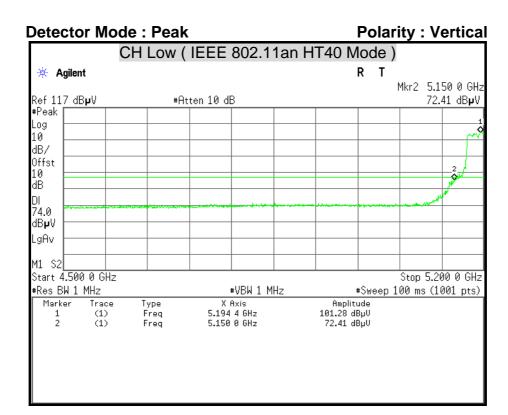


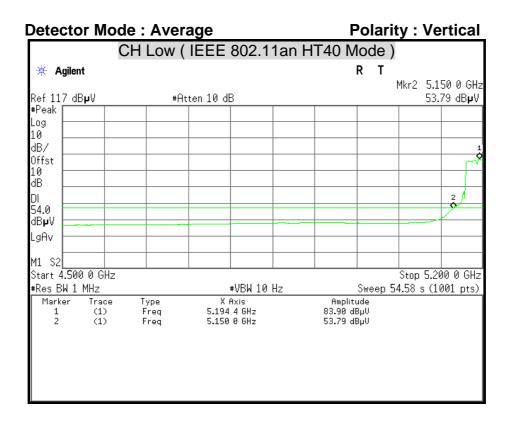


FCC ID: SIB-DMTAB-IN08A









7.7 CONDUCTED EMISSION

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

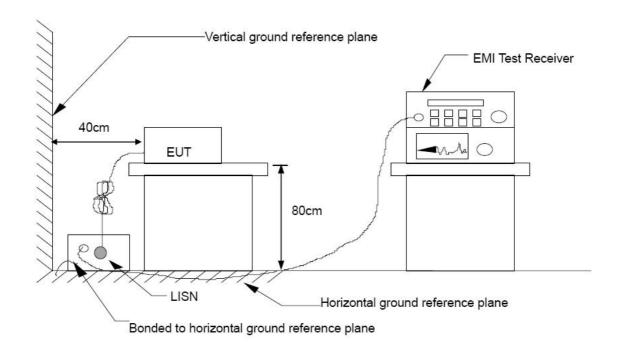
Frequency Range	Conducted Limit (dΒμν)			
(MHz)	Quasi-peak	Average		
0.15 - 0.50	66 to 56	56 to 46		
0.50 - 5.00	56	46		
5.00 - 30.0	60	50		

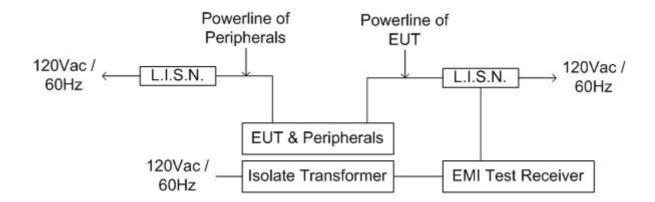
TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-465	08/11/2014
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-473	03/10/2015
EMI Receiver	ROHDE & SCHWARZ	ESCS 30	835418/008	10/16/2014
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	100117	07/01/2014

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP







TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2009.

The test procedure is performed in a $4m \times 3m \times 2.4m$ (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) \times 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

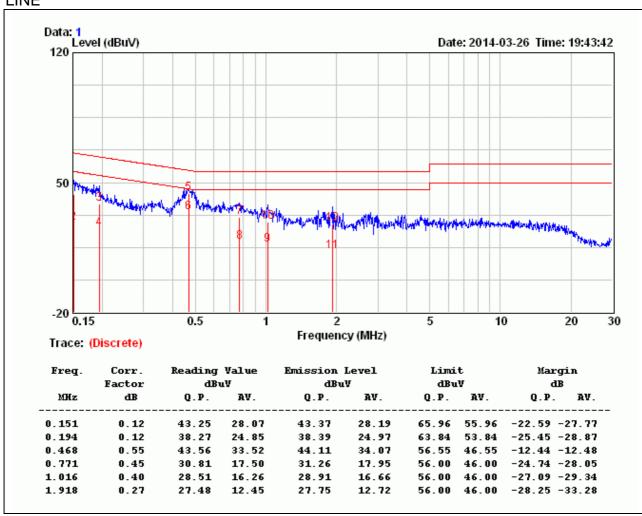
The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

TEST RESULTS

Product Name	DreamTab HD8	Test By	Alan Wu	
Test Model	DMTAB-IN08A	Test Date	2014/03/26	
Test Mode	Charge Mode + Play Video	Temp. & Humidity	21°C, 50%	

LINE



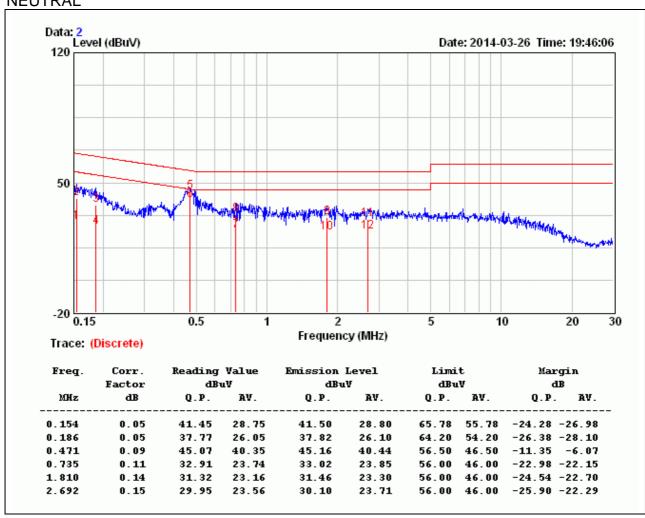
Remark:

- 1. Correction Factor = Insertion loss + Cable loss
- 2. Emission level = Reading Value + Correction factor
- 3. Margin value = Emission level Limit value



Product Name	DreamTab HD8	Test By	Alan Wu
Test Model	DMTAB-IN08A	Test Date	2014/03/26
Test Mode	Charge Mode + Play Video	Temp. & Humidity	21°C, 50%

NEUTRAL



Remark:

- 1. Correction Factor = Insertion loss + Cable loss
- 2. Emission level = Reading Value + Correction factor
- 3. Margin value = Emission level Limit value