

# FCC RADIO TEST REPORT FCC ID: 2ACPN-TM101A510L

**Product**: TABLET PC

Trade Name: N/A

Model Name: TM101A510L

Serial Model: N/A

**Report No.**: BZT-2015NT0204003F

# **Prepared for**

#### SHENZHEN DINS ELECTRONIC TECHNOLOGY CO.LTD

BldgA2, No.6th Fuqiao Industry Area, Qiaotou Community, Fuyong, Bao'an district, Shenzhen City,

# Prepared by

BZT Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.



**TEST RESULT CERTIFICATION** 

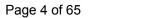
Applicant's name					
Address	BldgA2, No.	.6th Fuqiao Indict, Shenzhen	dustry Are	a, Qiaotou Cor	mmunity, Fuyong,
Manufacture's Name		•	•	ECHNOLOGY	CO.LTD
Address	BldgA2, No.		dustry Are		
Product description					
Product name	TABLET PC	;			
Model and/or type reference	TM101A510	)L			
Serial Model	N/A				
DIFF	N/A				
Standards	FCC Part15	5.247			
Test procedure	ANSI C63.4	-2003			
This device described abounder test (EUT) is in compart sample identified in the rep	oliance with th				
This report shall not be rep document may be altered of document. Date of Test	or revised by E	•		• •	
Date (s) of performance of		1 February. 20	015 ~05 Fe	ebruary. 2015	
Date of Issue					
Test Result					
Testing E	ingineer	:	(yan C	hen	
			(Lynn C	then)	
Technica	l Manager	:	dali	űn.	
			(Carlen	Liu)	
Authorize	ed Signatory	: -	Towny .	Lang	

(Tommy zhang)



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# 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247 (a)(2)	6dB Bandwidth	PASS		
15.247 (b)	Peak Output Power	PASS		
15.247 (c)	Radiated Spurious Emission	PASS		
15.247 (d)	Power Spectral Density	PASS		
15.205	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		

### NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%



# 1.1 TEST FACILITY

BZT Testing Technology Co., Ltd

Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.: 701733

# 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %  $\circ$ 

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



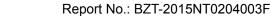
# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	TABLET PC		
Trade Name	N/A		
Model Name	TM101A510L		
Serial Model	N/A		
Model Difference	N/A		
Product Description			
Channel List	Please refer to the N	ote 2.	
Ratings	DC 5V from PC with AC120V/60Hz or DC 3.7V from battery		
Adapter	N/A		
Battery	3.7V, 6000mA		
Connecting I/O Port(s)	Please refer to the U	ser's Manual	

#### Note:

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





Channel List for 802.11b/g/n(20MHz) Frequency (MHz) Frequency (MHz) Frequency (MHz) Frequency (MHz) Channel Channel Channel Channel 

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	Channel List for 802.11n(40MHz)						
						Frequency (MHz)	
03	2422	06	2437	09	2452		
04 2427 07 2442							
05 2432 08 2447							

# 3. Table for Filed Antenna

	asio for threat alterna						
F	\nt	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
	Α	N/A	N/A	Integral Antenna	N/A	0	N/A



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test

configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20)CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9
Mode 5	Link Mode

For Conducted Emission		
Final Test Mode Description		
Mode 5	Link Mode	

For Radiated Emission			
Final Test Mode Description			
Mode 1	802.11b CH1/ CH6/ CH11		
Mode 2	802.11g CH1/ CH6/ CH11		
Mode 3	802.11n CH1/ CH6/ CH11		
Mode 4	802.11n(40) CH3/ CH6/ CH9		
Mode 5 Link Mode			

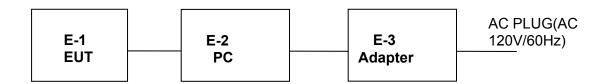
#### Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

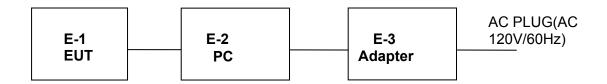


# 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

**Conducted Measurement:** 



#### Radiated Measurement:





2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	TABLET PC	N/A	TM101A510L	N/A	EUT
E-2	PC	Aceer	4552G	N/A	
E-3	Adapter	Aceer	ADP-90SB BB	N/A	

Item	Shielded Type	Ferrite Core	Length	Note

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> column.



# 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

**Radiation Test equipment** 

Raui	Radiation lest equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.05	2015.07.04	1 year
2	Test Receiver	R&S	ESPI	101318	2014.07.05	2015.07.04	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.22	2015.07.21	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2014.07.05	2015.07.04	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.07.05	2015.07.04	1 year
6	Signal Analyzer	Agilent	N9020A	MY4991000 60	2014.09.16	2015.09.15	1 year
7	Horn Antenna	EM	EM-AH-101 80	2011071402	2014.07.22	2015.07.21	1 year
8	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.22	2015.07.21	1 year
9	Amplifier	EM	EM-30180	060538	2014.07.05	2015.07.04	1 year
10	Loop Antenna	ARA	PLA-1030/B	1029	2014.07.22	2015.07.21	1 year
11	Power Meter	R&S	NRVS	100696	2014.07.05	2015.07.04	1 year
12	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.06.20	2015.06.19	1 year
13	Cable	Resenberger	SUCOFLEX 104	314683/2	2014.07.05	2015.07.04	1 year
14	Cable	Resenberger	SUCOFLEX 104	325762/2	2014.07.05	2015.07.04	1 year

**Conduction Test equipment** 

COIL	Conduction rest equipment						
Item	Kind of Equipment	Manufactu	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
	Equipment	rer			Calibration	unn	ii periou
1	Test Receiver	R&S	ESCI	101160	2014.07.05	2015.07.04	1 year
2	LISN	R&S	ENV216	101313	2014.07.05	2015.07.04	1 year
3	LISN	EMCO	3816/2	00042990	2014.07.05	2015.07.04	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2014.07.05	2015.07.04	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.07.05	2015.07.04	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.07.05	2015.07.04	1 year
7	Cable	Resenberg er	SUCOFLEX 104	314296/2	2014.07.05	2015.07.04	1 year



# 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

# 3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

	Class A (dBuV)		Class B	Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



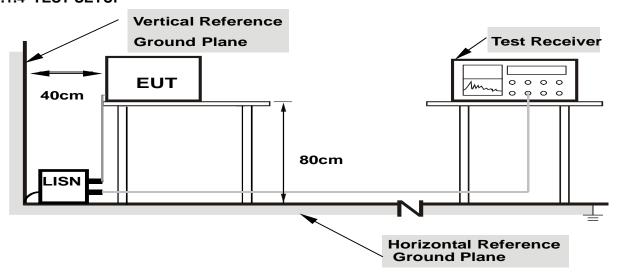
#### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 3.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 3.1.4 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 from other units and other metal planes

#### 3.1.5 EUT OPERATING CONDITIONS

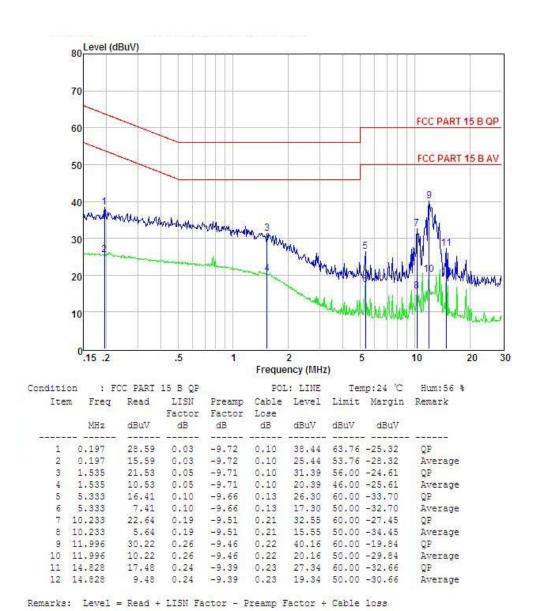
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



/ DZ I

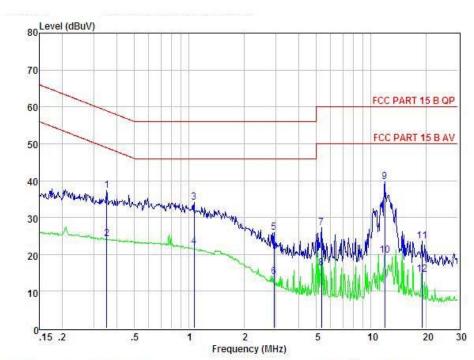
#### 3.1.6 TEST RESULTS

EUT:	TABLET PC	Model Name. :	TM101A510L
Temperature :	<b>26</b> ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from PC with AC 120V/60Hz	Test Mode:	Mode 5





EUT:	TABLET PC	Model Name. :	TM101A510L
Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from PC with AC 120V/60Hz	Test Mode :	Mode 5



Conditi	on : F	CC PART	15 B QP		POI	.: NEUTF	AL Ter	mp:24 °C	Hum:56 %
Ite	m Freq	Read	LISN Factor	Preamp Factor	Cable Lose	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.352	27.37	0.03	-9.72	0.10	37.22	58.91	-21.69	QP
2	0.352	14.37	0.03	-9.72	0.10	24.22	48.91	-24.69	Average
3	1.065	24.27	0.04	-9.71	0.10	34.12	56.00	-21.88	QP
4	1.065	12.27	0.04	-9.71	0.10	22.12	46.00	-23.88	Average
5	2.931	16.12	0.07	-9.70	0.12	26.01	56.00	-29.99	QP
6	2.931	4.12	0.07	-9.70	0.12	14.01	46.00	-31.99	Average
7	5.333	17.45	0.10	-9.66	0.13	27.34	60.00	-32.66	QP
8	5.333	6.45	0.10	-9.66	0.13	16.34	50.00	-33.66	Average
9	11.933	29.81	0.26	-9.47	0.22	39.76	60.00	-20.24	QP
10	11.933	9.81	0.26	-9.47	0.22	19.76	50.00	-30.24	Average
11	19.021	13.49	0.30	-9.47	0.33	23.59	60.00	-36.41	QP
12	19.021	4.49	0.30	-9.47	0.33	14.59	50.00	-35.41	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss



#### 3.2 RADIATED EMISSION MEASUREMENT

# 3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

# LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDECLIENCY (MHz)	Class A (dBu	ıV/m) (at 3M)	Class B (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RB / VB (emission in restricted	1 Mile / 1 Mile for Dook 1 Mile / 10/le for Average		
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average		

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



#### 3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. Test Equipment Setting For emission test:

9KHz~150KHz RBW 200Hz VBW1KHz (QP) 150KHz~30MHz RBW 9KHz VBW 30KHz (QP) 30MHZ~1GHz RBW 120KHz VBW 300KHz (QP) Above 1GHz RBW 1MHz VBW 1MHz (Peak) RBW 1MHz VBW 10Hz (AVG)

- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

#### 3.2.3 DEVIATION FROM TEST STANDARD

No deviation

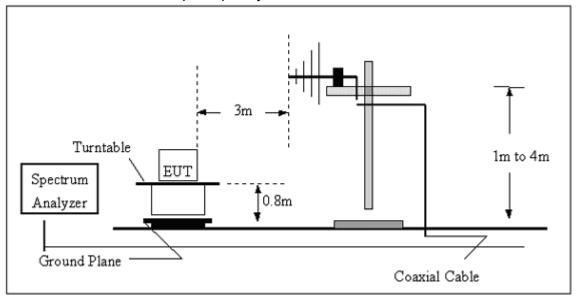


#### 3.2.4 TEST SETUP

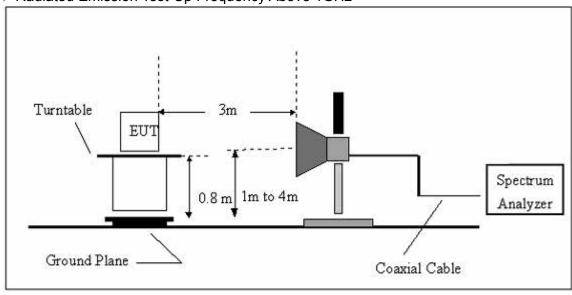
# (A) Radiated Emission Test-Up Frequency Below 30MHz



# (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



# (C) Radiated Emission Test-Up Frequency Above 1GHz



#### 3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

EUT:	TABLET PC	Model Name. :	TM101A510L
Temperature:	<b>20</b> ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	LIAST VALIDADA .	DC 5V from PC with AC 120V/60Hz
Test Mode:	Link mode	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

#### NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

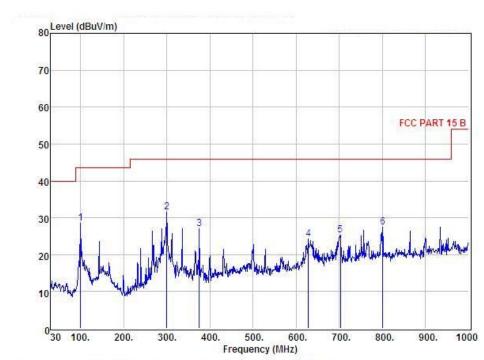
Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



# 3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	i lest voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	Link mode	Polarization :	Horizontal

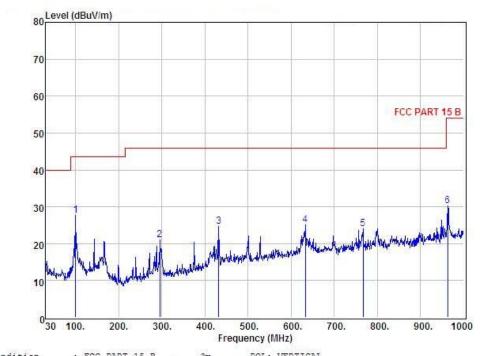


Conditio	n :	FCC PART 1	5 B	3m	POL: HORIZ	ZONTAL			
Item	Freq	Read	Antenna	Preamp	Cable	Level	Limit	Margin	Remark
		Level	Factor	Factor	Loss				
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
			2 201112						
1	99.84	44.82	10.15	26.84	0.46	28.59	43.50	-14.91	QP
2	299.66	45.30	12.80	27.19	0.69	31.60	46.00	-14.40	QP
3	375.32	39.14	14.32	27.35	1.01	27.12	46.00	-18.88	QP
4	628.49	32.31	18.82	27.82	0.94	24.25	46.00	-21.75	QP
5	702.21	32.57	19.69	27.75	0.80	25.31	46.00	-20.69	QP
6	800.18	32.89	20.70	27.65	1.56	27.50	46.00	-18.50	QP

Remark: Level = Read Level + Antenna Factor - Freamp Factor + Cable Loss



EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Hest Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	Link mode	Polarization :	Vertical



Condition	n :	FCC PART 1	5 B	3m	POL: VERT	ICAL			
Item	Freq	Read	Antenna	Preamp	Cable	Level	Limit	Margin	Remark
		Level	Factor	Factor	Loss				
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	99.84	43.90	10.15	26.84	0.46	27.67	43.50	-15.83	QP
2	295.78	34.66	12.71	27.18	0.87	21.06	46.00	-24.94	QP
3	431.58	35.93	15.53	27.46	0.74	24.74	46.00	-21.26	QP
4	632.37	32.93	18.87	27.82	1.11	25.09	46.00	-20.91	QP
5	766.23	29.73	20.45	27.67	1.44	23.95	46.00	-22.05	QP
6	963.14	33.65	22.17	27.61	2.01	30.22	54.00	-23.78	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



# 3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.00	43.98	10.44	54.42	74	-19.58	peak
4824.00	31.09	10.44	41.53	54	-12.47	AVG
7236.00	41.27	12.39	53.66	74	-20.34	peak
7236.00	27.95	12.39	40.34	54	-13.66	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Liest Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.00	42.87	10.4	53.27	74	-20.73	peak
4824.00	30.64	10.4	41.04	54	-12.96	AVG
7236.00	41.71	12.75	54.46	74	-19.54	peak
7236.00	29.4	12.75	42.15	54	-11.85	AVG

Remark:





EUT: Model Name : **TABLET PC** TM101A510L Temperature: **20** ℃ Relative Humidity: 48% DC 5V from PC with Pressure: 1010 hPa Test Voltage : AC 120V/60Hz CH6 (802.11b Mode)/2437 Horizontal Test Mode : Polarization:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.00	42.85	10.4	53.25	74	-20.75	peak
4874.00	30.71	10.4	41.11	54	-12.89	AVG
7311.00	42.78	12.75	55.53	74	-18.47	peak
7311.00	29.68	12.75	42.43	54	-11.57	AVG

# Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Hest voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.00	44.96	10.39	55.35	74	-18.65	peak
4874.00	32.52	10.44	42.96	54	-11.04	AVG
7311.00	43.75	12.68	56.43	74	-17.57	peak
7311.00	31.07	12.68	43.75	54	-10.25	AVG

# Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. No emission detected above 18GHz





EUT: Model Name : **TABLET PC** TM101A510L Temperature: **20** ℃ Relative Humidity: 48% DC 5V from PC with Pressure: 1010 hPa Test Voltage : AC 120V/60Hz CH11 (802.11b Mode)/2462 Test Mode : Polarization: Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.00	44.19	10.39	54.58	74	-19.42	peak
4924.00	30.95	10.39	41.34	54	-12.66	AVG
7386.00	42.59	12.68	55.27	74	-18.73	peak
7386.00	30.03	12.68	42.71	54	-11.29	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.00	44.08	10.39	54.47	74	-19.53	peak
4924.00	30.99	10.39	41.38	54	-12.62	AVG
7386.00	42.15	12.68	54.83	74	-19.17	peak
7386.00	28.94	12.68	41.62	54	-12.38	AVG

Remark:



EUT: TM101A510L TABLET PC Model Name : Temperature: 20 ℃ Relative Humidity: 48% DC 5V from PC with Test Voltage : Pressure: 1010 hPa AC 120V/60Hz CH1 (802.11g Mode)/2412 Test Mode : Polarization: Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.00	43.80	10.44	54.24	74	-19.76	peak
4824.00	31.1	10.44	41.54	54	-12.46	AVG
7236.00	43.04	12.39	55.43	74	-18.57	peak
7236.00	29.77	12.39	42.16	54	-11.84	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Liest Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.00	42.99	10.44	53.43	74	-20.57	peak
4824.00	30.31	10.44	40.75	54	-13.25	AVG
7236.00	42.18	12.39	54.57	74	-19.43	peak
7236.00	29.72	12.39	42.11	54	-11.89	AVG

Remark:



EUT: TM101A510L TABLET PC Model Name : <del>20</del> ℃ Relative Humidity: Temperature: 48% DC 5V from PC with Test Voltage : Pressure: 1010 hPa AC 120V/60Hz CH6 (802.11g Mode)/2437 Test Mode : Polarization: Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.00	44.95	10.4	55.35	74	-18.65	peak
4874.00	31.87	10.4	42.27	54	-11.73	AVG
7311.00	41.79	12.75	54.54	74	-19.46	peak
7311.00	28.88	12.75	41.63	54	-12.37	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Liest voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.00	44.12	10.4	54.52	74	-19.48	peak
4874.00	30.92	10.4	41.32	54	-12.68	AVG
7311.00	42.86	12.75	55.61	74	-18.39	peak
7311.00	29.49	12.75	42.24	54	-11.76	AVG

Remark:



EUT:	TABLET PC	Model Name :	TM101A510L
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11 (802.11g Mode)/2462	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4924.00	43.13	10.39	53.52	74	-20.48	peak
4924.00	30.67	10.39	41.06	54	-12.94	AVG
7386.00	43.01	12.68	55.69	74	-18.31	peak
7386.00	29.79	12.68	42.47	54	-11.53	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11(802.11g Mode)/2462	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	· Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4924.00	43.04	10.39	53.43	74	-20.57	peak
4924.00	31.13	10.39	41.52	54	-12.48	AVG
7386.00	42.93	12.68	55.61	74	-18.39	peak
7386.00	30.57	12.68	43.25	54	-10.75	AVG

Remark:



EUT: TABLET PC Model Name : TM101A510L Temperature: 20 ℃ Relative Humidity: 48% DC 5V from PC with Pressure: 1010 hPa Test Voltage : AC 120V/60Hz Test Mode : CH1(802.11n Mode)/20MHz Horizontal Polarization:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4824.00	42.88	10.44	53.32	74	-20.68	peak
4824.00	30.72	10.44	41.16	54	-12.84	AVG
7236.00	42.24	12.39	54.63	74	-19.37	peak
7236.00	29.47	12.39	41.86	54	-12.14	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4824.00	42.97	10.44	53.41	74	-20.59	peak
4824.00	29.78	10.44	40.22	54	-13.78	AVG
7236.00	42.19	12.39	54.58	74	-19.42	peak
7236.00	28.96	12.39	41.35	54	-12.65	AVG

Remark:



EUT: TM101A510L TABLET PC Model Name : Temperature: 20 ℃ Relative Humidity: 48% DC 5V from PC with Test Voltage : Pressure: 1010 hPa AC 120V/60Hz Test Mode : CH6(802.11n Mode)/20MHz Polarization: Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4874.00	42.81	10.4	53.21	74	-20.79	peak
4874.00	31.07	10.4	41.47	54	-12.53	AVG
7311.00	42.84	12.75	55.59	74	-18.41	peak
7311.00	27.50	12.75	40.25	54	-13.75	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH6(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.00	41.78	10.4	52.18	74	-21.82	peak
4874.00	29.11	10.4	39.51	54	-14.49	AVG
7311.00	40.53	12.75	53.28	74	-20.72	peak
7311.00	27.67	12.75	40.42	54	-13.58	AVG

Remark:



EUT: TABLET PC Model Name : TM101A510L Temperature: 20 ℃ Relative Humidity: 48% DC 5V from PC with Pressure: 1010 hPa Test Voltage : AC 120V/60Hz Test Mode : CH11(802.11n Mode)/20MHz Horizontal Polarization:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.00	42.04	10.39	52.43	74	-21.57	peak
4924.00	29.75	10.39	40.14	54	-13.86	AVG
7386.00	41.85	12.68	54.53	74	-19.47	peak
7386.00	29.19	12.68	41.87	54	-12.13	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Liest Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.00	41.96	10.39	52.35	74	-21.65	peak
4924.00	30.9	10.39	41.29	54	-12.71	AVG
7386.00	41.94	12.68	54.62	74	-19.38	peak
7386.00	29.63	12.68	42.31	54	-11.69	AVG

Remark:



EUT: TABLET PC Model Name : TM101A510L Temperature: 20 ℃ Relative Humidity: 48% DC 5V from PC with Pressure: 1010 hPa Test Voltage : AC 120V/60Hz Test Mode : CH3(802.11n Mode)/40MHz Horizontal Polarization:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4844.00	42.57	10.5	53.07	74	-20.93	peak
4844.00	30.71	10.5	41.21	54	-12.79	AVG
7266.00	41.93	12.5	54.43	74	-19.57	peak
7266.00	29.22	12.5	41.72	54	-12.28	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4844.00	43.97	10.5	54.47	74	-19.53	peak
4844.00	31.04	10.5	41.54	54	-12.46	AVG
7266.00	42.96	12.5	55.46	74	-18.54	peak
7266.00	29.77	12.5	42.27	54	-11.73	AVG

Remark:



EUT: TABLET PC Model Name : TM101A510L **20** ℃ Temperature: Relative Humidity: 48% DC 5V from PC with Pressure: 1010 hPa Test Voltage : AC 120V/60Hz Test Mode : CH6(802.11n Mode)/40MHz Horizontal Polarization:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.00	41.66	10.4	52.06	74	-21.94	peak
4874.00	30.08	10.4	40.48	54	-13.52	AVG
7311.00	43.57	12.75	56.32	74	-17.68	peak
7311.00	30.42	12.75	43.17	54	-10.83	AVG

# Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.00	44.13	10.4	54.53	74	-19.47	peak
4874.00	31.97	10.4	42.37	54	-11.63	AVG
7311.00	42.98	12.75	55.73	74	-18.27	peak
7311.00	30.10	12.75	42.85	54	-11.15	AVG

#### Remark:



EUT: TABLET PC Model Name : TM101A510L Temperature: 20 ℃ Relative Humidity: 48% DC 5V from PC with Pressure: 1010 hPa Test Voltage : AC 120V/60Hz Test Mode : CH9(802.11n Mode)/40MHz Horizontal Polarization:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4904.00	43.07	10.29	53.36	74	-20.64	peak
4904.00	30.46	10.29	40.75	54	-13.25	AVG
7356.00	41.84	12.79	54.63	74	-19.37	peak
7356.00	28.74	12.79	41.53	54	-12.47	AVG

# Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Liest Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4904.00	41.99	10.29	52.28	74	-21.72	peak
4904.00	30.25	10.29	40.54	54	-13.46	AVG
7356.00	41.28	12.79	54.07	74	-19.93	peak
7356.00	28.73	12.79	41.52	54	-12.48	AVG

#### Remark:



# 3.2.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11(802.11b Mode)	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2390	34.43	4.95	39.38	74	-34.62	peak
2390	1	4.95	1	54	1	AVG
2400	46.34	5.08	51.42	74	-22.58	peak
2400	1	5.08	1	54	1	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIAST MOITAGE	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH1(802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2390	35.12	4.95	40.07	74	-33.93	peak
2390	1	4.95	1	54	1	AVG
2400	49.97	5.08	55.05	74	-18.95	peak
2400	41.38	5.08	46.46	54	-7.54	AVG

Remark:



EUT: TABLET PC Model Name : TM101A510L 20 ℃ Temperature: Relative Humidity: 48% DC 5V from PC with Pressure: 1010 hPa Test Voltage : AC 120V/60Hz Test Mode : CH11(802.11b Mode) Polarization: Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	· Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	35.55	5.17	40.72	74	-33.28	peak
2483.5	1	5.17	1	54	1	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11(802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	34.66	5.17	39.83	74	-34.17	peak
2483.5	1	5.17	1	54	1	AVG

Remark:



EUT: TABLET PC Model Name : TM101A510L 20 ℃ Temperature: Relative Humidity: 48% DC 5V from PC with Pressure: 1010 hPa Test Voltage : AC 120V/60Hz Test Mode : CH1(802.11g Mode) Polarization: Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2390	34.99	4.95	39.94	74	-34.06	peak
2390	1	4.95	1	54	1	AVG
2400	48.34	5.08	53.42	74	-20.58	peak
2400	/	5.08	1	54	1	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH1(802.11g Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2390	34.64	4.95	39.59	74	-34.41	peak
2390	1	4.95	1	54	1	AVG
2400	47.07	5.08	52.15	74	-21.85	peak
2400	1	5.08	1	54	1	AVG

Remark:



EUT:	TABLET PC	Model Name :	TM101A510L
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11(802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2483.5	34.1	5.17	39.27	74	-34.73	peak
2483.5	1	5.17	1	54	1	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11(802.11g Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2483.5	35.26	5.17	40.43	74	-33.57	peak
2483.5	1	5.17	1	54	1	AVG

Remark:



EUT: TABLET PC Model Name : TM101A510L Temperature: 20 ℃ Relative Humidity: 48% DC 5V from PC with Pressure: 1010 hPa Test Voltage : AC 120V/60Hz Test Mode : CH1(802.11n20 Mode) Polarization: Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2390	35.13	4.95	40.08	74	-33.92	peak
2390	1	4.95	1	54	1	AVG
2400	50.48	5.08	55.56	74	-18.44	peak
2400	40.75	5.08	45.83	54	-8.17	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH1(802.11n20 Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2390	34.84	4.95	39.79	74	-34.21	peak
2390	1	4.95	1	54	1	AVG
2400	49.76	5.08	54.84	74	-19.16	peak
2400	39.87	5.08	44.95	54	-9.05	AVG

Remark:



EUT: TABLET PC Model Name : TM101A510L 20 ℃ Temperature: Relative Humidity: 48% DC 5V from PC with Pressure: 1010 hPa Test Voltage : AC 120V/60Hz Test Mode : CH11 (802.11n20 Mode) Polarization: Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2483.5	34.2	5.17	39.37	74	-34.63	peak
2483.5	1	5.17	1	54	1	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH11(802.11n20 Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2483.5	33.81	5.17	38.98	74	-35.02	peak
2483.5	1	5.17	1	54	1	AVG

Remark:



EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH3(802.11n40 Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2390	34.87	4.95	39.82	74	-34.18	peak
2390	1	4.95	/	54	1	AVG
2400	47.17	5.08	52.25	74	-21.75	peak
2400	1	5.08	1	54	1	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH3(802.11n40 Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2390	34.09	4.95	39.04	74	-34.96	peak
2390	1	4.95	/	54	1	AVG
2400	49.44	5.08	54.52	74	-19.48	peak
2400	40.38	5.08	45.46	54	-8.54	AVG

Remark:



EUT: TABLET PC Model Name : TM101A510L Temperature: 20 ℃ Relative Humidity: 48% DC 5V from PC with Pressure: 1010 hPa Test Voltage : AC 120V/60Hz Test Mode : CH9 (802.11n40 Mode) Polarization: Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2483.5	34.57	5.17	39.74	74	-34.26	peak
2483.5	1	5.17	1	54	1	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE :	DC 5V from PC with AC 120V/60Hz
Test Mode :	CH9 (802.11n40 Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2483.5	35.3	5.17	40.47	74	-33.53	peak
2483.5	1	5.17	1	54	1	AVG

Remark:



# 4. POWER SPECTRAL DENSITY TEST

## 4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

#### 4.1.1 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW ≥ 3 kHz.
- 4. Set the VBW  $\geq$  3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

#### 4.1.2 DEVIATION FROM STANDARD

No deviation.

#### 4.1.3 TEST SETUP



## 4.1.4 EUT OPERATION CONDITIONS

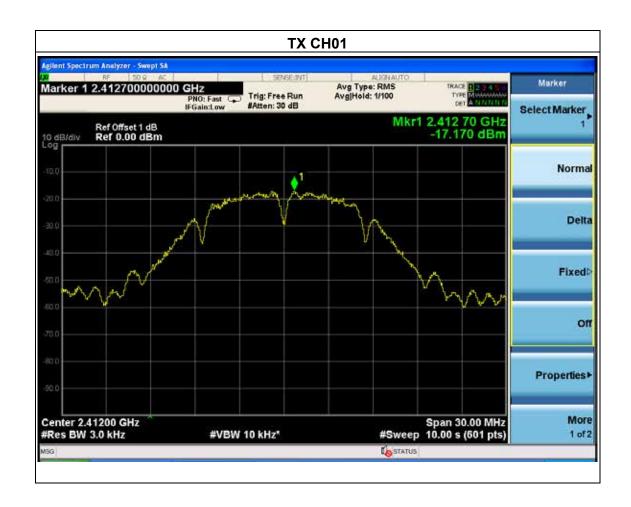
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



## 4.1.5 TEST RESULTS

EUT:	TABLET PC	Model Name :	TM101A510L	
Temperature:	<b>25</b> ℃	Relative Humidity:	60%	
Pressure :	1015 hPa	riest voltage .	DC 5V from PC with AC 120V/60Hz	
Test Mode : TX b Mode /CH01, CH06, CH11				

Frequency	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
2412 MHz	-17.170	8	PASS
2437 MHz	-16.837	8	PASS
2462 MHz	-16.028	8	PASS











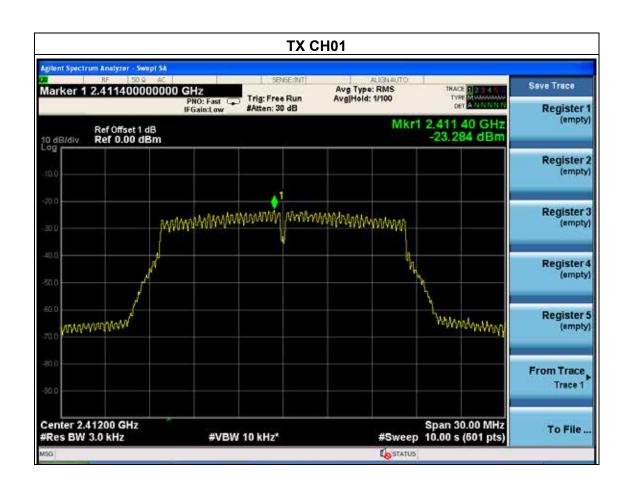
EUT: TABLET PC Model Name: TM101A510L

Temperature: 25 °C Relative Humidity: 60%

Pressure: 1015 hPa Test Voltage: DC 5V from PC with AC 120V/60Hz

Test Mode: TX g Mode /CH01, CH06, CH11

Frequency	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
2412 MHz	-23.284	8	PASS
2437 MHz	-22.039	8	PASS
2462 MHz	-21.504	8	PASS











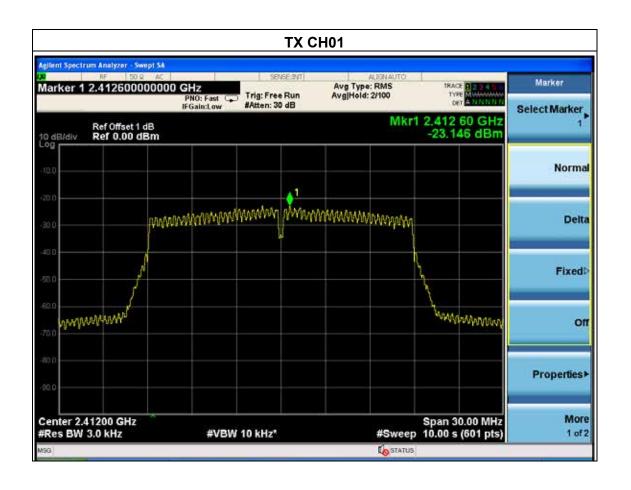
EUT: TABLET PC Model Name: TM101A510L

Temperature: 25 °C Relative Humidity: 60%

Pressure: 1015 hPa Test Voltage: DC 5V from PC with AC 120V/60Hz

Test Mode: TX n Mode(20M) /CH01, CH06, CH11

Frequency	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
2412 MHz	-23.146	8	PASS
2437 MHz	-21.268	8	PASS
2462 MHz	-22.114	8	PASS











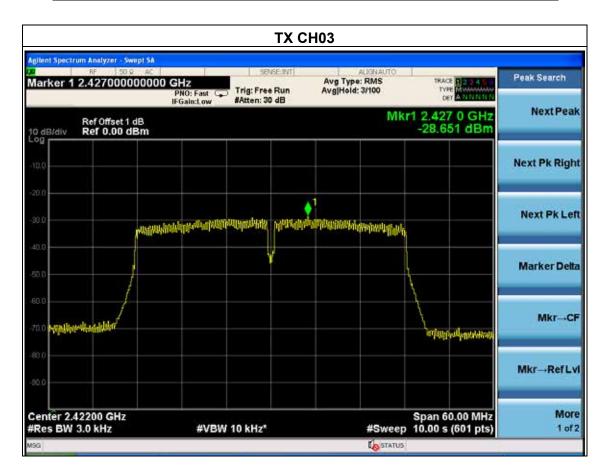
EUT : TABLET PC Model Name : TM101A510L

Temperature : 25 °C Relative Humidity : 60%

Pressure : 1015 hPa Test Voltage : DC 5V from PC with AC 120V/60Hz

Test Mode : TX n Mode(40M) /CH03, CH06, CH09

Frequency	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
2422 MHz	-28.651	8	PASS
2437 MHz	-26.987	8	PASS
2452 MHz	-28.011	8	PASS











## 5. BANDWIDTH TEST

## 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

## **5.1.1 TEST PROCEDURE**

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 ' RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

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

## **5.1.2 DEVIATION FROM STANDARD**

No deviation.

## **5.1.3 TEST SETUP**



# **5.1.4 EUT OPERATION CONDITIONS**

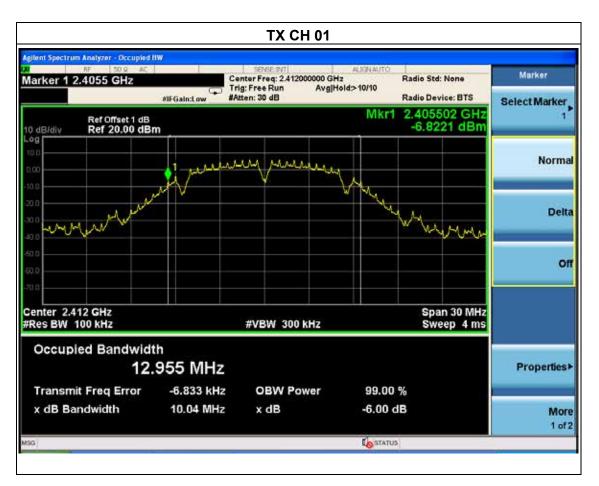
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.1.5 TEST RESULTS

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Liest Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	12.955	>=500KHz	PASS
2437 MHz	12.944	>=500KHz	PASS
2462 MHz	12.881	>=500KHz	PASS





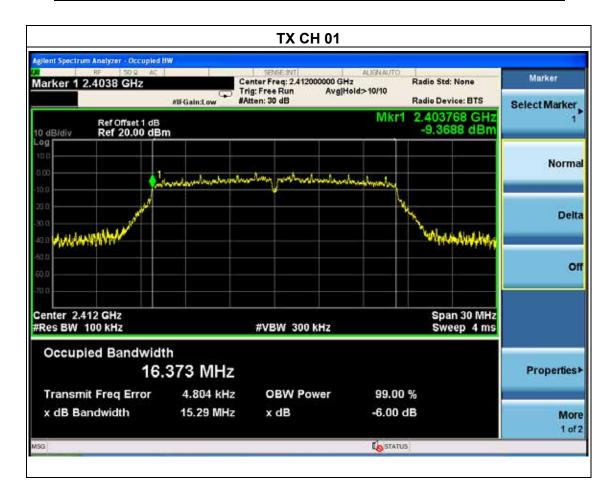




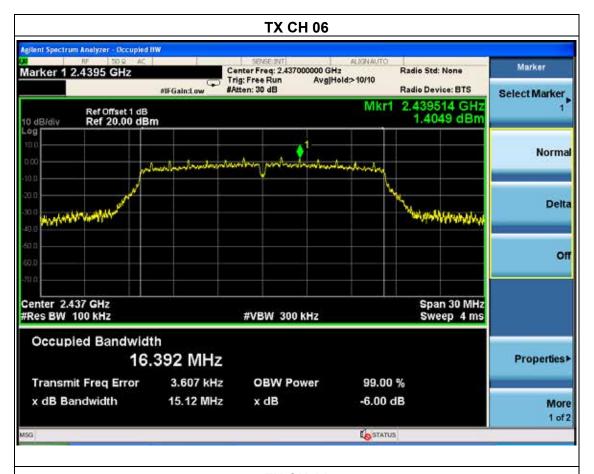


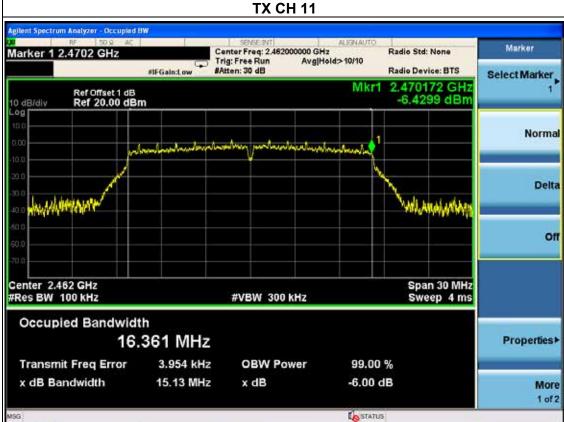
EUT:	TABLET PC	Model Name :	TM101A510L
Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Liest Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.373	>=500KHz	PASS
2437 MHz	16.392	>=500KHz	PASS
2462 MHz	16.361	>=500KHz	PASS











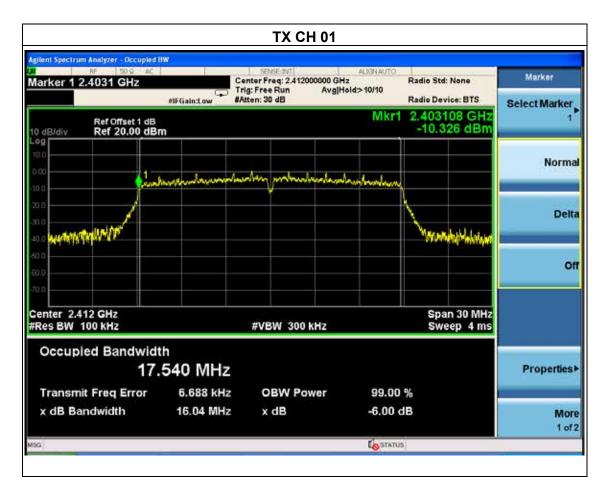
EUT: TABLET PC Model Name: TM101A510L

Temperature: 25 °C Relative Humidity: 60%

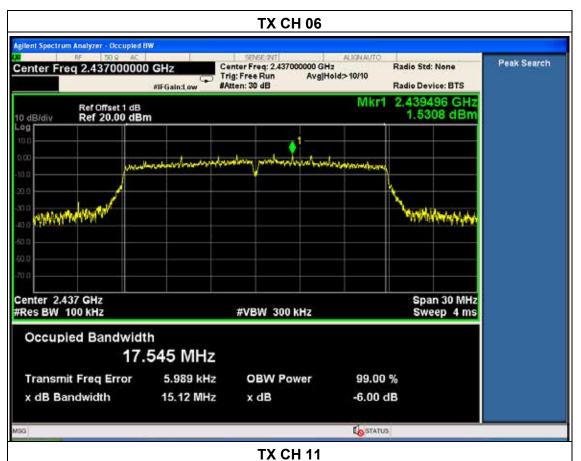
Pressure: 1012 hPa Test Voltage: DC 5V from PC with AC 120V/60Hz

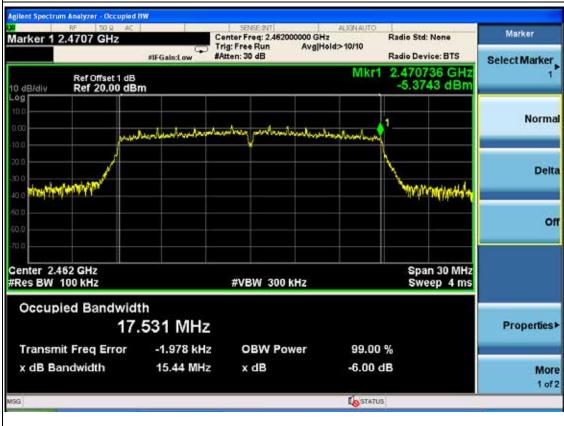
Test Mode: TX n Mode(20M) /CH01, CH06, CH11

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	17.540	>=500KHz	PASS
2437 MHz	17.545	>=500KHz	PASS
2462 MHz	17.531	>=500KHz	PASS













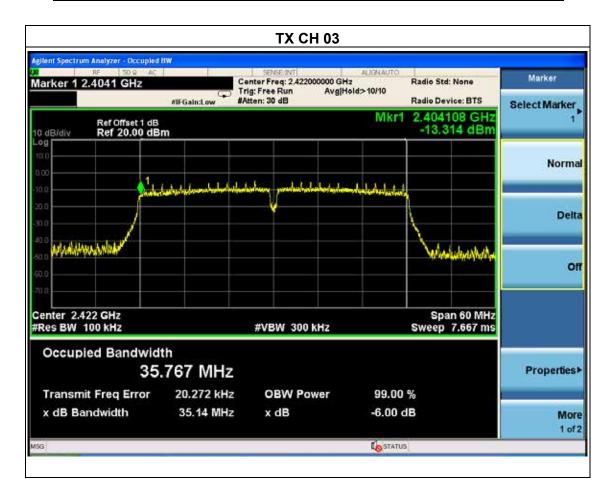
EUT: TABLET PC Model Name: TM101A510L

Temperature: 25 °C Relative Humidity: 60%

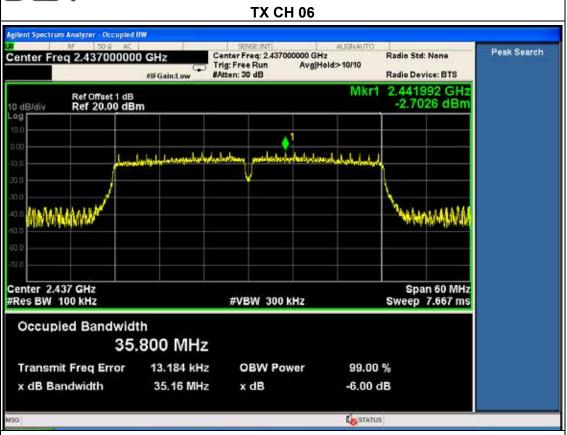
Pressure: 1012 hPa Test Voltage: DC 5V from PC with AC 120V/60Hz

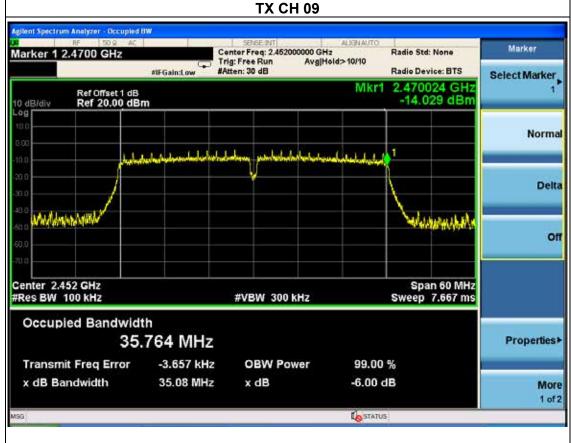
Test Mode: TX n Mode(40M) /CH03, CH06, CH09

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2422 MHz	35.767	>=500KHz	PASS
2437 MHz	35.800	>=500KHz	PASS
2452 MHz	35.764	>=500KHz	PASS











**6. PEAK OUTPUT POWER TEST** 

# **6.1 APPLIED PROCEDURES / LIMIT**

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

## **6.1.1 TEST PROCEDURE**

a. The EUT was directly connected to the Power meter

## **6.1.2 DEVIATION FROM STANDARD**

No deviation.

## 6.1.3 TEST SETUP



# **6.1.4 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.





6.1.5 TEST RESULTS

EUT:	TABLET PC	Model Name :	TM101A510L
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Hest Voltage :	DC 5V from PC with AC 120V/60Hz
Test Mode :	TX b/g/n(20M,40M) Mode /CH01, CH06, CH11		

	TX 802.11b Mode					
Test	Frequency	Peak Conducted Output Power	LIMIT			
Channe	(MHz)	(dBm)	dBm			
CH01	2412	9.43	30			
CH06	2437	9.37	30			
CH11	2462	9.33	30			
		TX 802.11g Mode				
CH01	2412	9.25	30			
CH06	2437	9.21	30			
CH11	2462	9.15	30			
		TX 802.11n20 Mode				
CH01	2412	8.53	30			
CH06	2437	8.39	30			
CH11	2462	8.45	30			
	TX 802.11n40 Mode					
CH03	2422	7.68	30			
CH06	2437	7.52	30			
CH09	2452	7.57	30			



7. ANTENNA REQUIREMENT

## 7.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

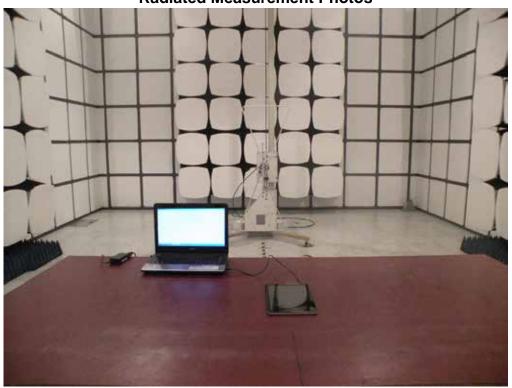
## 7.2 EUT ANTENNA

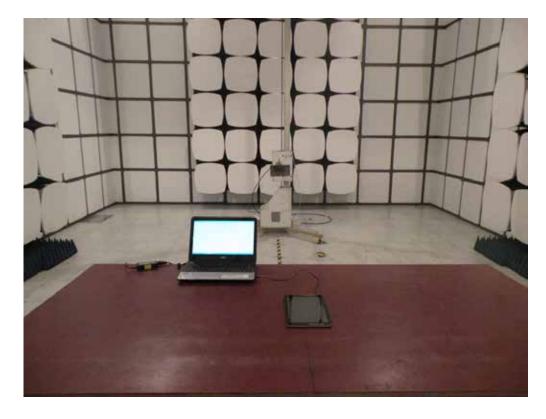
The EUT antenna is Integral Antenna . It comply with the standard requirement.

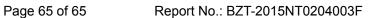


# 8. EUT TEST PHOTO

# **Radiated Measurement Photos**









# **Conducted Measurement Photos**

