

FCC RADIO TEST REPORT-WIFI FCC ID:2ACMBLEARNIT

Product: Tablet PC

Trade Name: N/A

Model Name: Learnit

Serial Model: CEB

Report No.: NTEK-2015NT01061024F1

Prepared for

Caribbean eBook Ltd.

Brades, Montserrat, West Indies

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	Caribbean et	Book Ltd.			
Address	Brades, Montserrat, West Indies				
Manufacture's Name	Caribbean eE	Book Ltd.			
Address	Brades, Montserrat, West Indies				
Product description					
Product name	Tablet PC				
Model and/or type reference	Learnit				
Serial Model	CEB				
Standards	FCC Part15.24	47: 01 Oct. 201	4		
Test procedure	ANSI C63.4-20	003 and KDB 5	558074:June 5, 2014		
This device described at equipment under test (E to the tested sample ide	UT) is in compl	liance with the			
This report shall not be r document may be altere the document.	d or revised by	•	• •		
Date of Test Date (s) of performance		.lan 2015 ∼26	Jan 2015		
Date of Issue			Can. 2010		
Test Result					
Tool Noodit					
Testing	g Engineer	:	Dowy Yumy Denny Huang		
Techni	cal Manager	:	Brown Lu (Brown Lu)		
Author	ized Signatory	:	(Bill Yao)		

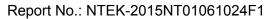
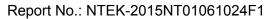




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1. SUMMARY OF TEST RESULTS

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



1.1 TEST FACILITY

NTEK 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.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

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	Learnit		
Serial Model	CEB		
Model Difference	All the model are the except the model nan	same circuit and RF module, ne and colour.	
Product Description	The EUT is a Tablet PC Operation		
Channel List	Please refer to the Note 2.		
Ratings	DC 3.7V		
Adapter	Input: 100-240V~,50/60 Hz,0.35A Output: 5V===, 2.0A		
Battery	DC 3.7V ,2500mAh		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note

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

2.

	Channel List for 802.11b/g						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	80	2447	11	2462
03	2422	06	2437	09	2452		



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	Link Mode

For Conducted Emission		
Final Test Mode	Description	
Mode 3	Link Mode	

For Radiated Emission		
Final Test Mode Description		
Mode 1	802.11b CH1/ CH6/ CH11	
Mode 2	802.11g CH1/ CH6/ CH11	

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
- (3) EUT configured to transmit continuously:

Operated Mode for Worst Duty Cycle		
Test Signal Duty Cycle (x)	Average correction factor (dB)	
100% - IEEE 802.11b	0	
100% - IEEE 802.11g	0	



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test

E-1 EUT



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	Brand	Model/Type No.	Series No.	Note
E-1	Tablet PC	N/A	Learnit	N/A	EUT
E-2	Adapter	N/A	AD1	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	

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

	ation reat equip	<u> </u>					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.06	2015.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2014.06.07	2015.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2014.06.07	2015.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.06.07	2015.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2014.07.06	2015.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2014.07.06	2015.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2014.07.06	2015.07.05	1 year

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Conduction Test equipment

Item	Kind of	Manufactu	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment	rer			calibration	until	n period
1	Test Receiver	R&S	ESCI	101160	2014.06.06	2015.06.05	1 year
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2014.06.07	2015.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.07	2015.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.06.08	2015.06.07	1 year
7	Test Cable	N/A	C01	N/A	2014.06.08	2015.06.07	1 year
8	Test Cable	N/A	C02	N/A	2014.06.08	2015.06.07	1 year
9	Test Cable	N/A	C03	N/A	2014.06.08	2015.06.07	1 year

1	Attenuation	MCE	24-10-34	BN9258	2014.06.08	2015.06.07	1 year
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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B	Standard	
FREQUENCT (MHZ)	Quasi-peak	Average	Quasi-peak	Average	Statitualu
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 0.8 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.



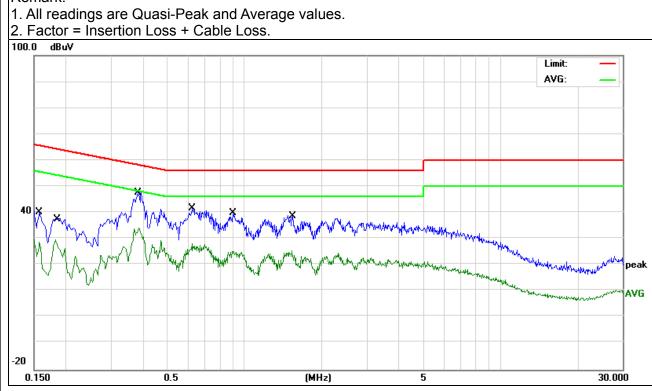
3.1.6 TEST RESULTS

EUT:	Tablet PC	Model Name. :	Learnit
Temperature :	26 ℃	Relative Humidity:	56%
Pressure :	1010hPa	Phase :	L
TASE VOIDAGE .	DC 5V form Adapter AC 120V/60Hz	Test Mode :	Mode 3

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
0.1580	31.11	9.63	40.74	65.56	-24.82	QP
0.1580	19.00	9.63	28.63	55.56	-26.93	AVG
0.1819	27.81	9.53	37.34	64.39	-27.05	QP
0.1819	20.22	9.53	29.75	54.39	-24.64	AVG
0.3860	35.93	9.23	45.16	58.15	-12.99	QP
0.3860	25.01	9.23	34.24	48.15	-13.91	AVG
0.6220	30.18	9.57	39.75	56.00	-16.25	QP
0.6220	18.63	9.57	28.20	46.00	-17.80	AVG
0.8900	28.82	9.58	38.40	56.00	-17.60	QP
0.8900	15.58	9.58	25.16	46.00	-20.84	AVG
1.5300	29.28	9.57	38.85	56.00	-17.15	QP
1.5300	15.78	9.57	25.35	46.00	-20.65	AVG

Remark:



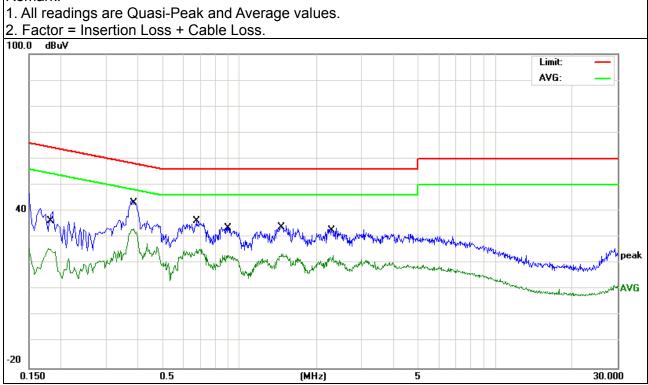


EUT:	Tablet PC	Model Name. :	Learnit
Temperature :	26 ℃	Relative Humidity:	56%
Pressure :	1010hPa	Phase :	N
TEST VOUZOE .	DC 5V form Adapter AC 120V/60Hz	Test Mode :	Mode 3

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
0.1780	29.84	9.54	39.38	64.57	-25.19	QP
0.1780	16.06	9.54	25.60	54.57	-28.97	AVG
0.3860	34.85	9.45	44.30	58.15	-13.85	QP
0.3860	23.91	9.45	33.36	48.15	-14.79	AVG
0.6820	25.62	9.45	35.07	56.00	-20.93	QP
0.6820	16.00	9.45	25.45	46.00	-20.55	AVG
0.9060	24.34	9.46	33.80	56.00	-22.20	QP
0.9060	13.72	9.46	23.18	46.00	-22.82	AVG
1.4580	24.16	9.46	33.62	56.00	-22.38	QP
1.4580	14.19	9.46	23.65	46.00	-22.35	AVG
2.3179	23.58	9.45	33.03	56.00	-22.97	QP
2.3179	13.46	9.45	22.91	46.00	-23.09	AVG

Remark:





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)

FREQUENCY (MHz)	(dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	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 MHz / 1 MHz for Dook, 1 MHz / 10Hz for Average		
band)	1 MHz / 1 MHz for Peak, 1 MHz / <i>10Hz</i> 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.

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- 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. 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.
- e. 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.
- f. 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

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth	
30 to 1000	QP	120 kHz	300 kHz	
	Peak	1 MHz	1 MHz	
Above 1000	Peak	1 MHz	10 Hz	

3.2.3 DEVIATION FROM TEST STANDARD

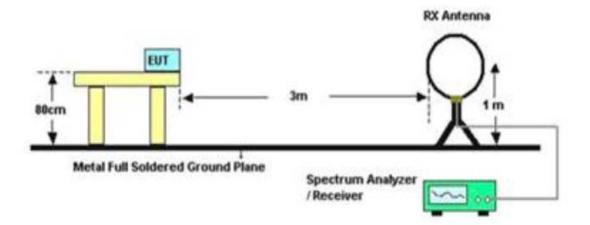
No deviation



3.2.4 TEST SETUP

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

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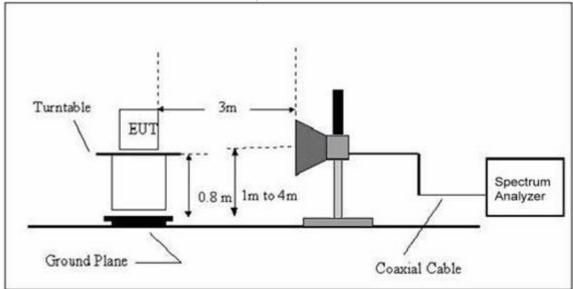


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 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. :	Learnit
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX	Polarization :	

Report No.: NTEK-2015NT01061024F1

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

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.



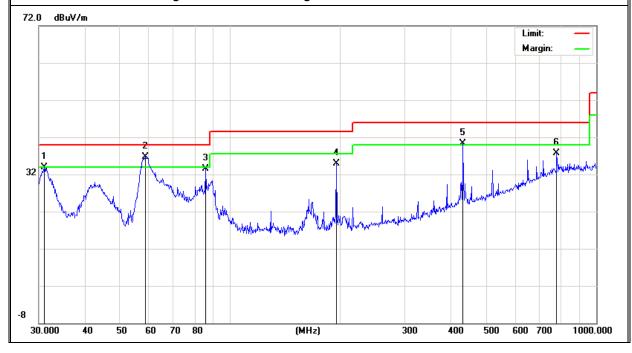
3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

EUT:	Tablet PC	Model Name :	Learnit
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	T.C.I.I.G.I.K
V	31.0706	14.97	18.84	33.81	40.00	-6.19	QP
V	58.6126	28.58	8.22	36.80	40.00	-3.20	QP
V	85.5977	26.56	7.00	33.56	40.00	-6.44	QP
V	195.1365	24.15	10.74	34.89	43.50	-8.61	QP
V	432.5457	21.35	18.96	40.31	46.00	-5.69	QP
V	779.6068	10.88	26.88	37.76	46.00	-8.24	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



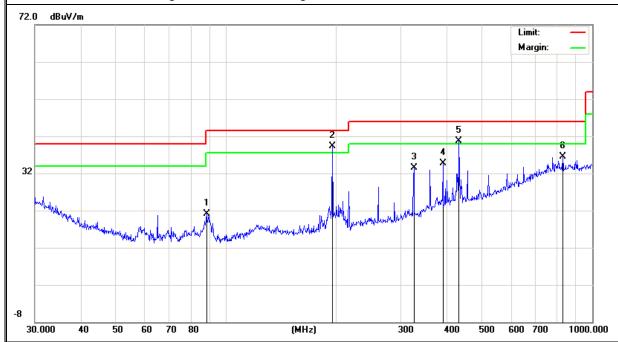


Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rterriarit
Н	88.3421	13.45	7.57	21.02	43.50	-22.48	QP
Н	195.1365	28.47	10.74	39.21	43.50	-4.29	QP
Н	325.5957	18.23	15.22	33.45	46.00	-12.55	QP
Н	390.7225	16.79	17.93	34.72	46.00	-11.28	QP
Н	432.5457	21.69	18.96	40.65	46.00	-5.35	QP
Н	830.4002	9.20	27.30	36.50	46.00	-9.50	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

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3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	Tablet PC	Model Name :	Learnit
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Damada	0
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Remark	Comment
		Lo	w Channel (2412 M	lHz)			
4824.321	51.88	10.44	62.32	74.00	-11.68	Pk	Vertical
4824.321	33.12	10.44	43.56	54.00	-10.44	Av	Vertical
7236.123	45.09	12.39	57.48	74.00	-16.52	Pk	Vertical
7236.123	29.36	12.39	41.75	54.00	-12.25	Av	Vertical
4824.209	53.22	10.44	63.66	74.00	-10.34	Pk	Horizontal
4824.209	34.73	10.44	45.17	54.00	-8.83	Av	Horizontal
7236.267	45.76	12.39	58.15	74.00	-15.85	Pk	Horizontal
7236.267	30.93	12.39	43.32	54.00	-10.68	Av	Horizontal
	<u>, </u>	Mid	del Channel (2437	MHz)			
4874.345	49.45	10.40	59.85	74.00	-14.15	Pk	Vertical
4874.345	30.29	10.40	40.69	54.00	-13.31	Av	Vertical
7311.268	43.01	12.75	55.76	74.00	-18.24	Pk	Vertical
7311.268	25.97	12.75	38.72	54.00	-15.28	Av	Vertical
4874.233	50.15	10.40	60.55	74.00	-13.45	Pk	Horizontal
4874.233	31.37	10.40	41.77	54.00	-12.23	Av	Horizontal
7311.123	42.26	12.75	55.01	74.00	-18.99	Pk	Horizontal
7311.123	26.95	12.75	39.70	54.00	-14.30	Av	Horizontal
	,	Hiç	gh Channel (2462 N	/IHz)			
4924.087	52.23	10.39	62.62	74.00	-11.38	Pk	Vertical
4924.087	33.61	10.39	44.00	54.00	-10.00	Av	Vertical
7386.124	45.39	12.68	58.07	74.00	-15.93	Pk	Vertical
7386.124	29.02	12.68	41.70	54.00	-12.30	Av	Vertical
4924.234	51.99	10.39	62.38	74.00	-11.62	Pk	Horizontal
4924.234	34.11	10.39	44.50	54.00	-9.50	Av	Horizontal
7386.065	44.39	12.68	57.07	74.00	-16.93	Pk	Horizontal
7386.065	29.63	12.68	42.31	54.00	-11.69	Av	Horizontal

Note: 802.11b mode is worse case;



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. 3 kHz ≤Set the RBW≤100 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 within the RBW.
- 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 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

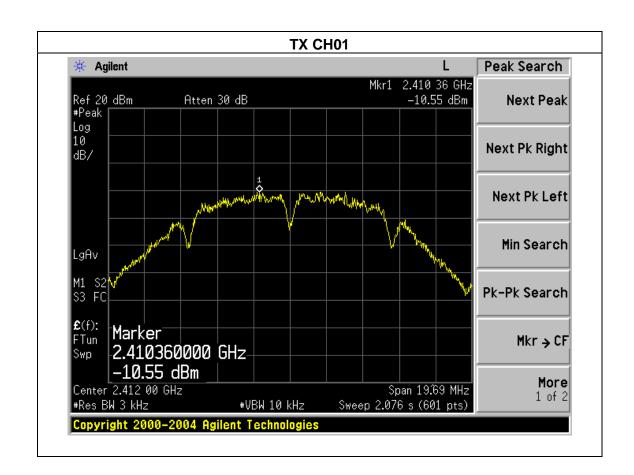


4.1.5 TEST RESULTS

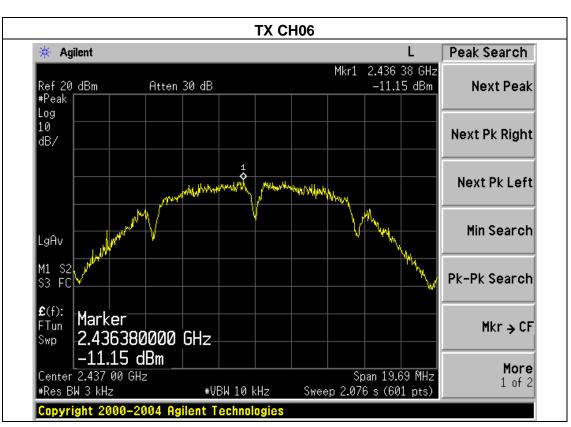
EUT:	Tablet PC	Model Name :	Learnit
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

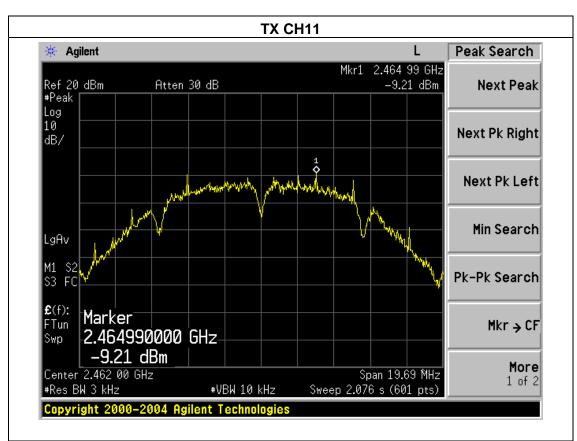
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Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-10.55	8	PASS
2437 MHz	-11.15	8	PASS
2462 MHz	-9.21	8	PASS







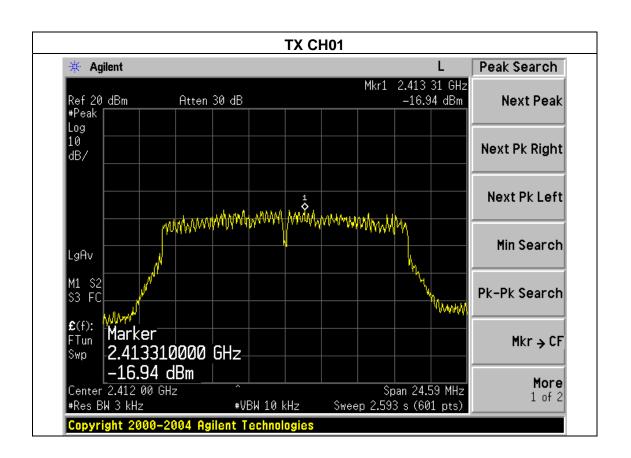




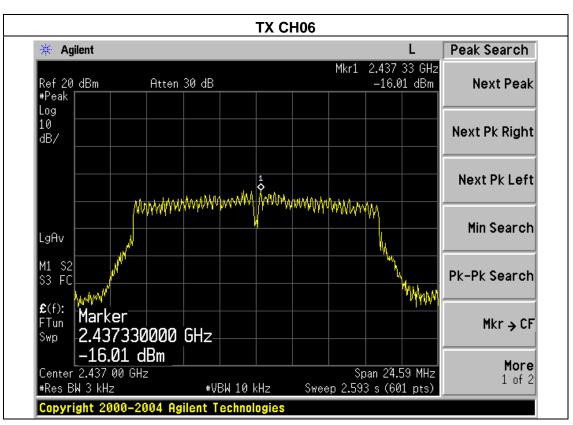
EUT:	Tablet PC	Model Name :	Learnit
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX a Mode /CH01, CH06, CH1	1	

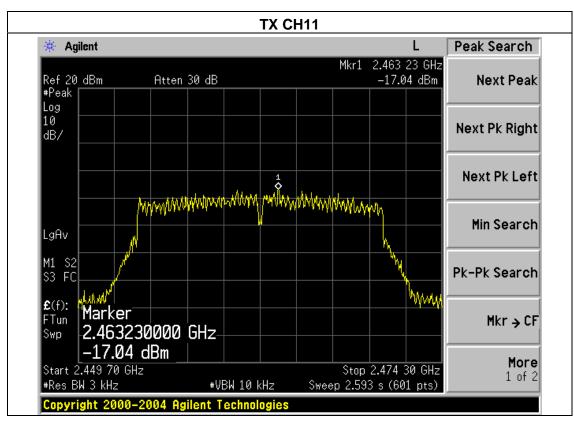
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Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-16.94	8	PASS
2437 MHz	-16.01	8	PASS
2462 MHz	-17.04	8	PASS











5. BANDWIDTH TEST

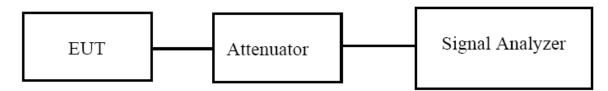
5.1 APPLIED PROCEDURES / LIMIT

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) \geq 3 x 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) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



5.1.2 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

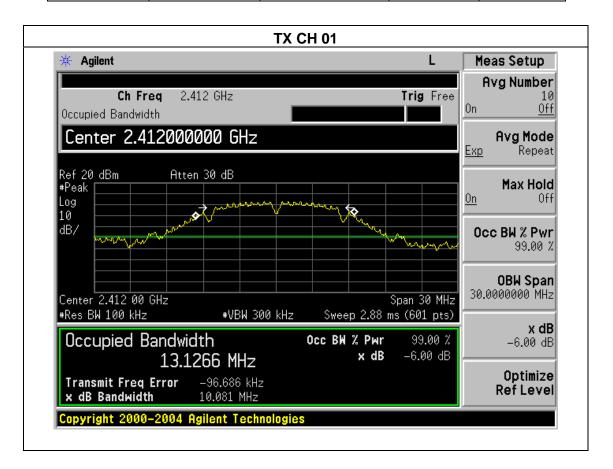


5.1.3 TEST RESULTS

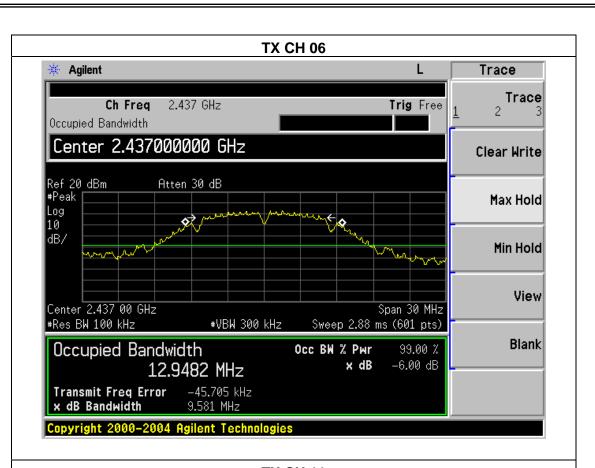
EUT:	Tablet PC	Model Name :	Learnit
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

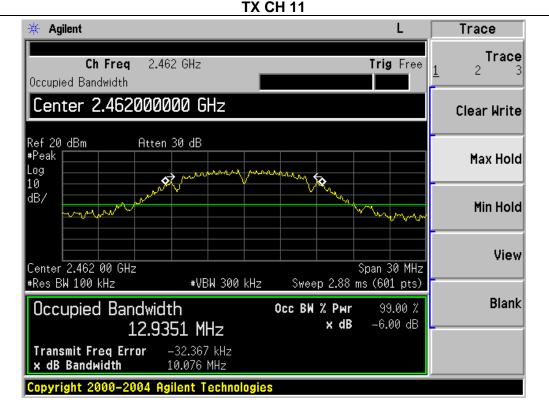
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Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	10.081	500	Pass
Middle	2437	9.581	500	Pass
High	2462	10.076	500	Pass







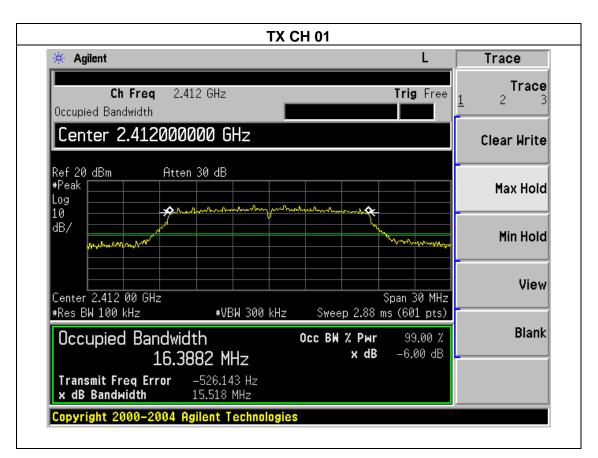




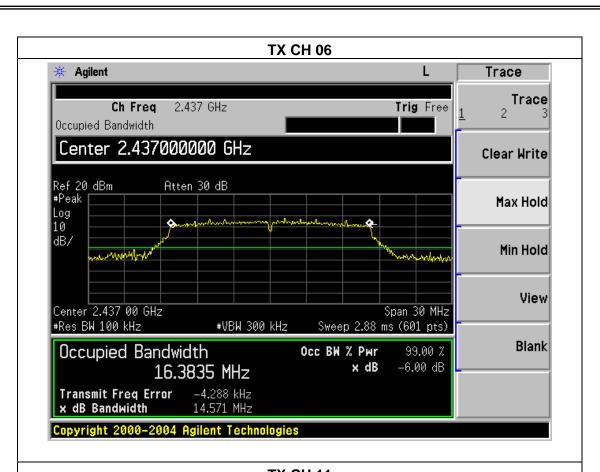
		_	
EUT:	Tablet PC	Model Name :	Learnit
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH1	1	

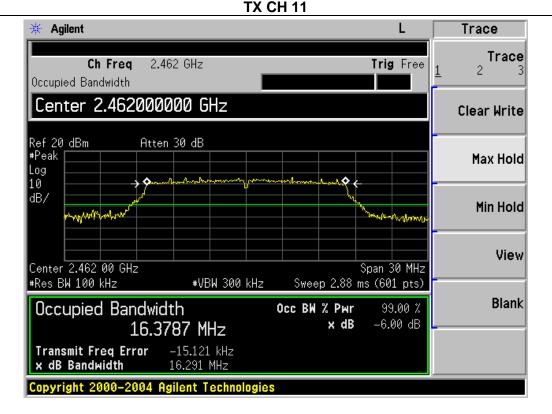
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Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	15.518	500	Pass
Middle	2437	14.571	500	Pass
High	2462	16.291	500	Pass











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

EUT	POWER	METED
	TONLIK	ML I LIX

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



6.1.5 TEST RESULTS

EUT:	Tablet PC	Model Name :	Learnit
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b/g Mode		

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Test Channe	Frequency	Maximum Peak Conducted Output Power (PK)	Maximum Peak Conducted Output Power (AV)	LIMIT			
	(MHz)	(dBm)	(dBm)	dBm			
	TX 802.11b Mode						
CH01	2412	12.73	9.46	30			
CH06	2437	12.69	9.33	30			
CH11	2462	12.71	9.44	30			
TX 802.11g Mode							
CH01	2412	11.84	8.79	30			
CH06	2437	11.89	8.84	30			
CH11 2462		11.86	8.81	30			



7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

7.1 DEVIATION FROM STANDARD

No deviation.

7.2 TEST SETUP



7.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



7.4 TEST RESULTS

EUT:	Tablet PC	Model Name :	Learnit
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V

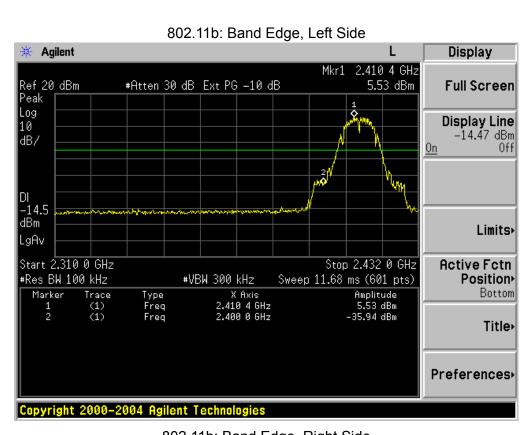
Frequency MHz	Delta Peak to band emission (dBc)	>Limit (dBc)	Result		
802.11b					
2400	41.47	20	Pass		
2483.5	57.59	20	Pass		
802.11g					
2400	25.58	20	Pass		
2483.5	39.35	20	Pass		

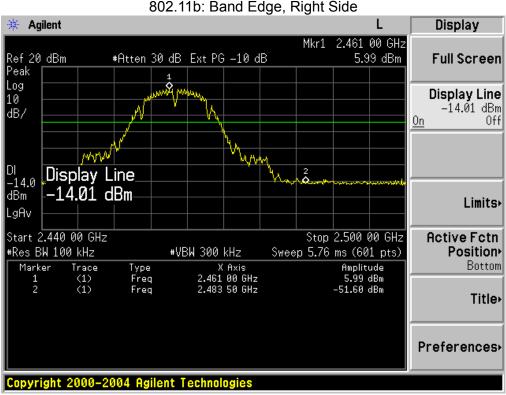
Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
			802.11b				
2390	58.34	-13.06	45.28	74	-28.72	peak	Vertical
2390	58.08	-13.06	45.02	74	-28.98	peak	Horizontal
2483.5	59.27	-12.78	46.49	74	-27.51	peak	Vertical
2483.5	59.32	-12.78	46.54	74	-27.46	peak	Horizontal
	802.11g						
2390	58.24	-13.06	45.18	74	-28.82	peak	Vertical
2390	57.42	-13.06	44.36	74	-29.64	peak	Horizontal
2483.5	59.14	-12.78	46.36	74	-27.64	peak	Vertical
2483.5	59.35	-12.78	46.57	74	-27.43	peak	Horizontal

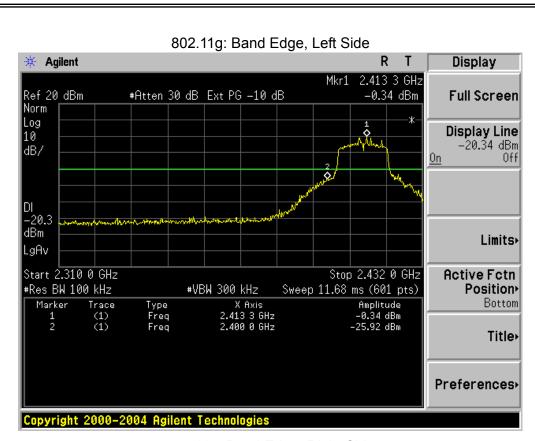
Note: Test method to see chapter 3.2 . When PK value is lower than the Average value limit, average not record.

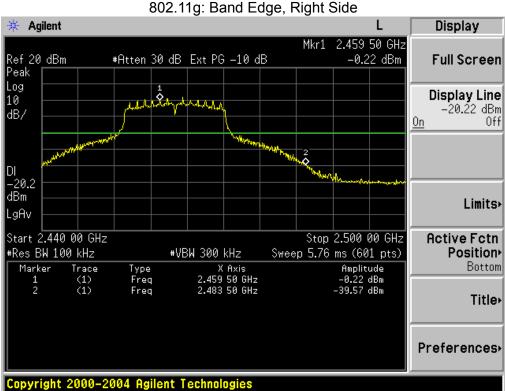














8. ANTENNA REQUIREMENT

8.1 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.

Report No.: NTEK-2015NT01061024F1

8.2 EUT ANTENNA The EUT antenna is permanent attached antenna. It comply with the standard requirement.



9. EUT TEST PHOTO



