

FCC RADIO TEST REPORT-BT FCC ID:2ACPR-W7421

Product: Tablet PC

Trade Name: Bmorn

Model Name: W7421

W7413,W7406,W740,W7405,W7409,

Serial Model: W7416,W7422,W7423,W7424,W7425,

W7426,W7427,W7428,W7429,W8419,

W8420,W8407,W8410,W1415

Report No.: NTEK-2015NT08242551F2

Prepared for

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TEST	RESULT	CERTIF	FICATI	ON
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Applicant's name: Shenzhen Bmorn Technology Co.,Ltd. Address 5/F, Hengfang Verteran Industrial Park, Xingye Road, Xixiang, Bao'an, Shenzhen, Guangdong, China Manufacture's Name.....: Shenzhen Bmorn Technology Co.,Ltd. Address: 5/F, Hengfang Verteran Industrial Park, Xingye Road, Xixiang, Bao'an, Shenzhen, Guangdong, China **Product description** Product name Tablet PC Model and/or type reference : W7421 W7413,W7406,W740,W7405,W7409,W7416,W7422, Serial Model: W7423,W7424,W7425,W7426,W7427,W7428,W7429,W8419, W8420,W8407,W8410 ,W1415 Standards FCC Part15.247: 01 Oct. 2014 This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personnel only, and shall be noted in the revision of the document. Date of Test Date of Issue 06 Sep. 2015 Test Result..... Pass Testing Engineer Technical Manager

Authorized Signatory: Sam . Chaw (Sam Chen)

(Brown Lu)



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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)(1)	Hopping Channel Separation	PASS		
15.247(b)(1)	Peak Output Power	PASS		
15.247(c)	Radiated Spurious Emission	PASS		
15.247(a)(iii)	Number of Hopping Frequency	PASS		
15.247(a)(iii)	Dwell Time	PASS		
15.247(a)(1)	Bandwidth	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	Bmorn			
Model Name	W7421			
Serial Model	W7413,W7406,W740,W7405,W7409, W7416,W7422,W7423,W7424,W7425, W7426,W7427,W7428,W7429,W8419, W8420,W8407,W8410,W1415			
Model Difference	All the model are the same except the model name ar	•		
	The EUT is a Tablet PC			
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	BT(1Mbps): GFSK BT EDR(2Mbps): π /4-DQPSK BT EDR(3Mbps): 8-DPSK		
	Bit Rate of Transmitter	1Mbps/2Mbps/3Mbps		
Product Description	Number Of Channel	79 CH		
	Antenna Designation:	Please see Note 3.		
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.			
Channel List	Please refer to the Note 2			
Adapter	Model:SA/12PA/05FUS050200 Input: 100-240V~,50/60 Hz,0.5A Output: 5.0V==-,2A			
Battery	DC 3.7V ,2800mAh			
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					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
00	2402	27	2429	54	2456	
01	2403	28	2430	55	2457	
02	2404	29	2431	56	2458	
03	2405	30	2432	57	2459	
04	2406	31	2433	58	2460	
05	2407	32	2434	59	2461	
06	2408	33	2435	60	2462	
07	2409	34	2436	61	2463	
08	2410	35	2437	62	2464	
09	2411	36	2438	63	2465	
10	2412	37	2439	64	2466	
11	2413	38	2440	65	2467	
12	2414	39	2441	66	2468	
13	2415	40	2442	67	2469	
14	2416	41	2443	68	2470	
15	2417	42	2444	69	2471	
16	2418	43	2445	70	2472	
17	2419	44	2446	71	2473	
18	2420	45	2447	72	2474	
19	2421	46	2448	73	2475	
20	2422	47	2449	74	2476	
21	2423	48	2450	75	2477	
22	2424	49	2451	76	2478	
23	2425	50	2452	77	2479	
24	2426	51	2453	78	2480	
25	2427	52	2454			
26	2428	53	2455			

3.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	FPCB Antenna	N/A	1.0	BT Antenna



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	CH00	
Mode 2	CH39	
Mode 3	CH78	
Mode 4	normal link	

For Conducted Emission				
Final Test Mode Description				
Mode 4 normal link				

For Radiated Emission				
Final Test Mode Description				
Mode 1	CH00			
Mode 2	CH39			
Mode 3	CH78			

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use new battery.
- (3)The data rate was set in 3Mbps for radiated emission due to the highest RF output power.

2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Tes	st program: Broadc	om
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1/2/3Mbps)	DEF	DEF	DEF

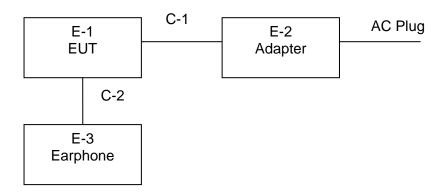


2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E-1 EUT

Conducted Emission Test





2.5 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	Bmorn	W7421	N/A	EUT
E-2	ADAPTER	N/A	SA/12PA/05FUS050200	N/A	
E-3	Earphone	N/A	2688	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	1.0m	

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.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item		Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment				calibration	until	n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST		150900201	2015.06.07	2016.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2015.07.06	2016.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2015.07.06	2016.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2015.07.06	2016.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2015.07.06	2016.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2015.06.06	2016.06.05	1 year
2	LISN	R&S	ENV216	101313	2015.08.24	2016.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2015.08.24	2016.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2015.06.07	2016.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.07	2016.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.08	2016.06.07	1 year
7	Test Cable	N/A	C01	N/A	2015.06.08	2016.06.07	1 year
8	Test Cable	N/A	C02	N/A	2015.06.08	2016.06.07	1 year
9	Test Cable	N/A	C03	N/A	2015.06.08	2016.06.07	1 year

1	Attenuation	MCE	24-10-34	BN9258	2015.06.08	2016 06 07	1 year
		_			2010.00.00	2010.00.01	,



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 (dBuV)		Ctondord
FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Standard
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



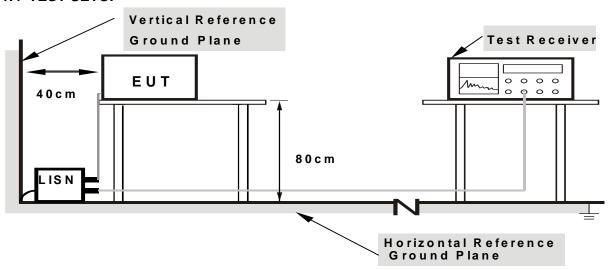
3.1.2 TEST PROCEDURE

- 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.

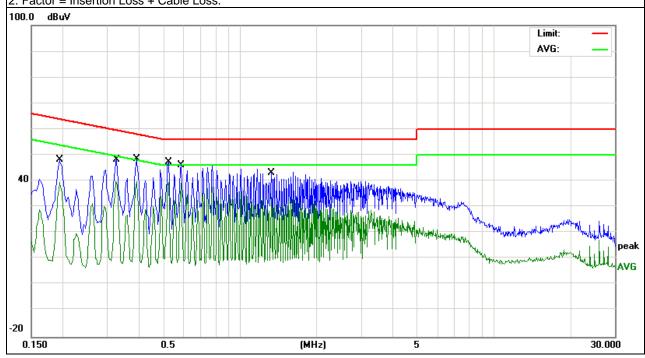


3.1.6 TEST RESULTS

EUT:	Tablet PC	Model Name :	W7421
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V from adapter AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damadi
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1940	38.68	9.61	48.29	63.86	-15.57	QP
0.1940	29.86	9.61	39.47	53.86	-14.39	AVG
0.3220	38.51	9.62	48.13	59.65	-11.52	QP
0.3220	30.15	9.62	39.77	49.65	-9.88	AVG
0.3899	38.98	9.64	48.62	58.06	-9.44	QP
0.3899	30.12	9.64	39.76	48.06	-8.30	AVG
0.5220	37.65	9.68	47.33	56.00	-8.67	QP
0.5220	29.74	9.68	39.42	46.00	-6.58	AVG
0.5859	36.56	9.66	46.22	56.00	-9.78	QP
0.5859	29.49	9.66	39.15	46.00	-6.85	AVG
1.3300	35.11	9.59	44.70	56.00	-11.30	QP
1.3300	24.18	9.59	33.77	46.00	-12.23	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

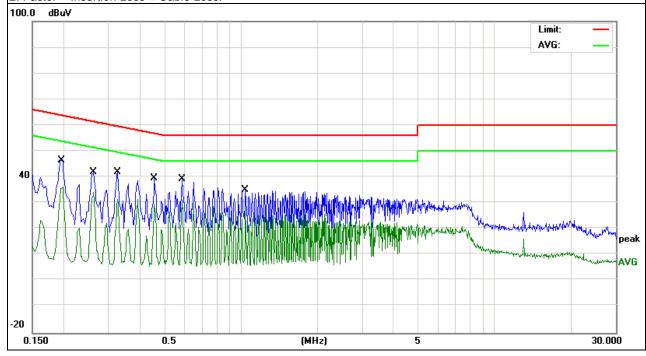




EUT:	Tablet PC	Model Name :	W7421
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
TAST VALIANA .	DC 5.0V from adapter AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1980	37.59	9.61	47.20	63.69	-16.49	QP
0.1980	26.55	9.61	36.16	53.69	-17.53	AVG
0.2620	32.35	9.62	41.97	61.36	-19.39	QP
0.2620	24.40	9.62	34.02	51.36	-17.34	AVG
0.3260	32.48	9.62	42.10	59.55	-17.45	QP
0.3260	21.82	9.62	31.44	49.55	-18.11	AVG
0.4540	29.78	9.66	39.44	56.80	-17.36	QP
0.4540	19.84	9.66	29.50	46.80	-17.30	AVG
0.5859	29.64	9.66	39.30	56.00	-16.70	QP
0.5859	21.41	9.66	31.07	46.00	-14.93	AVG
1.0420	25.45	9.61	35.06	56.00	-20.94	QP
1.0420	17.65	9.61	27.26	46.00	-18.74	AVG

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

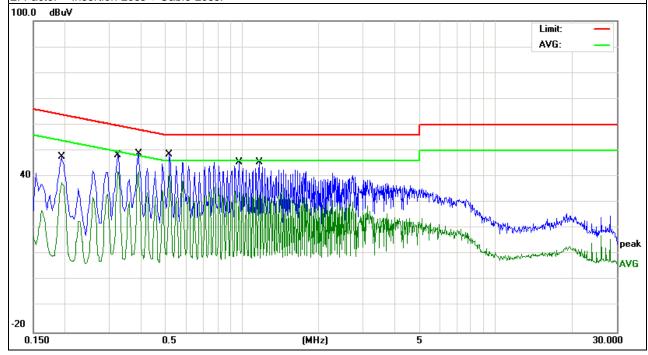




EUT:	Tablet PC	Model Name :	W7421
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
nesi vollade .	DC 5.0V from adapter AC 240V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domorle
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1940	38.00	9.61	47.61	63.86	-16.25	QP
0.1940	28.25	9.61	37.86	53.86	-16.00	AVG
0.3220	38.59	9.62	48.21	59.65	-11.44	QP
0.3220	32.28	9.62	41.90	49.65	-7.75	AVG
0.3899	39.34	9.64	48.98	58.06	-9.08	QP
0.3899	32.37	9.64	42.01	48.06	-6.05	AVG
0.5180	38.86	9.68	48.54	56.00	-7.46	QP
0.5180	31.39	9.68	41.07	46.00	-4.93	AVG
0.9739	36.08	9.61	45.69	56.00	-10.31	QP
0.9739	24.83	9.61	34.44	46.00	-11.56	AVG
1.1659	35.87	9.60	45.47	56.00	-10.53	QP
1.1659	24.72	9.60	34.32	46.00	-11.68	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.

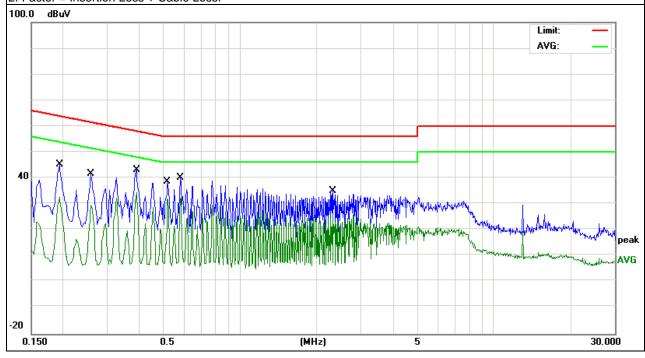




EUT:	Tablet PC	Model Name :	W7421
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
LIEST VOITAGE .	DC 5.0V from adapter AC 240V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damada
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1940	35.53	9.61	45.14	63.86	-18.72	QP
0.1940	22.94	9.61	32.55	53.86	-21.31	AVG
0.2580	32.02	9.62	41.64	61.49	-19.85	QP
0.2580	19.99	9.62	29.61	51.49	-21.88	AVG
0.3899	33.58	9.64	43.22	58.06	-14.84	QP
0.3899	24.80	9.64	34.44	48.06	-13.62	AVG
0.5180	29.04	9.68	38.72	56.00	-17.28	QP
0.5180	22.33	9.68	32.01	46.00	-13.99	AVG
0.5819	30.43	9.66	40.09	56.00	-15.91	QP
0.5819	22.61	9.66	32.27	46.00	-13.73	AVG
2.3300	25.67	9.53	35.20	56.00	-20.80	QP
2.3300	16.59	9.53	26.12	46.00	-19.88	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

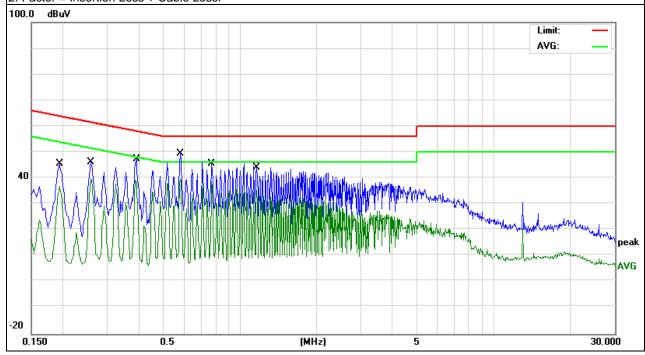




EUT:	Tablet PC	Model Name :	W7421
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5.0V from PC AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1940	35.95	9.61	45.56	63.86	-18.30	QP
0.1940	27.29	9.61	36.90	53.86	-16.96	AVG
0.2580	36.54	9.62	46.16	61.49	-15.33	QP
0.2580	30.29	9.62	39.91	51.49	-11.58	AVG
0.3860	37.67	9.63	47.30	58.15	-10.85	QP
0.3860	29.71	9.63	39.34	48.15	-8.81	AVG
0.5820	39.93	9.66	49.59	56.00	-6.41	QP
0.5820	29.85	9.66	39.51	46.00	-6.49	AVG
0.7740	36.57	9.63	46.20	56.00	-9.80	QP
0.7740	29.04	9.63	38.67	46.00	-7.33	AVG
1.1620	34.41	9.60	44.01	56.00	-11.99	QP
1.1620	25.69	9.60	35.29	46.00	-10.71	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

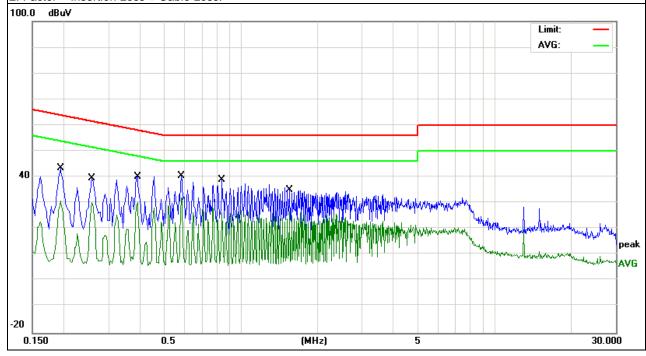




EUT:	Tablet PC	Model Name :	W7421
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5.0V from PC AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damada
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1940	33.71	9.61	43.32	63.86	-20.54	QP
0.1940	21.21	9.61	30.82	53.86	-23.04	AVG
0.2580	29.87	9.62	39.49	61.49	-22.00	QP
0.2580	20.54	9.62	30.16	51.49	-21.33	AVG
0.3899	30.50	9.64	40.14	58.06	-17.92	QP
0.3899	20.72	9.64	30.36	48.06	-17.70	AVG
0.5820	30.71	9.66	40.37	56.00	-15.63	QP
0.5820	22.30	9.66	31.96	46.00	-14.04	AVG
0.8420	29.30	9.62	38.92	56.00	-17.08	QP
0.8420	18.83	9.62	28.45	46.00	-17.55	AVG
1.5500	26.36	9.57	35.93	56.00	-20.07	QP
1.5500	16.97	9.57	26.54	46.00	-19.46	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

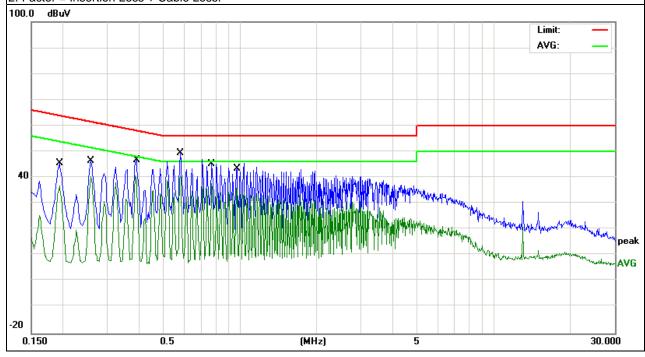




EUT:	Tablet PC	Model Name :	W7421
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
LIEST VOITAGE :	DC 5.0V from PC AC 240V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1940	36.07	9.61	45.68	63.86	-18.18	QP
0.1940	27.33	9.61	36.94	53.86	-16.92	AVG
0.2580	36.92	9.62	46.54	61.49	-14.95	QP
0.2580	30.76	9.62	40.38	51.49	-11.11	AVG
0.3860	37.25	9.63	46.88	58.15	-11.27	QP
0.3860	31.13	9.63	40.76	48.15	-7.39	AVG
0.5819	39.79	9.66	49.45	56.00	-6.55	QP
0.5819	31.02	9.66	40.68	46.00	-5.32	AVG
0.7740	37.40	9.63	47.03	56.00	-8.97	QP
0.7740	28.19	9.63	37.82	46.00	-8.18	AVG
0.9659	35.94	9.62	45.56	56.00	-10.44	QP
0.9659	26.30	9.62	35.92	46.00	-10.08	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.

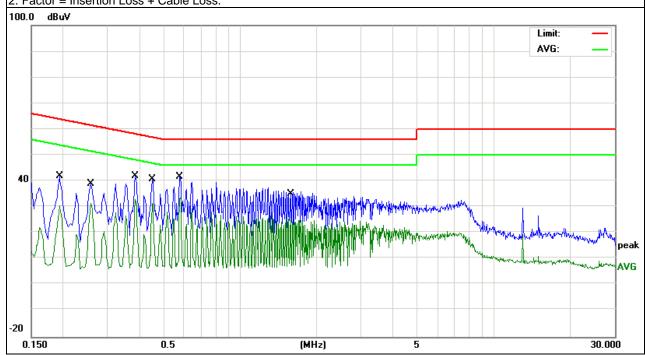




EUT:	Tablet PC	Model Name :	W7421
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
LIEST VOITAGE :	DC 5.0V from PC AC 240V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1940	32.26	9.61	41.87	63.86	-21.99	QP
0.1940	20.96	9.61	30.57	53.86	-23.29	AVG
0.2580	29.32	9.62	38.94	61.49	-22.55	QP
0.2580	21.82	9.62	31.44	51.49	-20.05	AVG
0.3860	32.26	9.63	41.89	58.15	-16.26	QP
0.3860	23.24	9.63	32.87	48.15	-15.28	AVG
0.4500	31.24	9.66	40.90	56.87	-15.97	QP
0.4500	21.82	9.66	31.48	46.87	-15.39	AVG
0.5820	31.98	9.66	41.64	56.00	-14.36	QP
0.5820	23.78	9.66	33.44	46.00	-12.56	AVG
1.5780	25.79	9.57	35.36	56.00	-20.64	QP
1.5780	16.04	9.57	25.61	46.00	-20.39	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + 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 (MLI-)	Class B (dBuV/m) (at 3M)		
FREQUENCY (MHz)	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).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower



Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted	4 Mile /4 Mile for Dook 4 Mile /401 le for Averen
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 m for below 1GHz and 1.5m for above 1GHz 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 for below 1GHz and 1.5m for above 1GHz; 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.

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

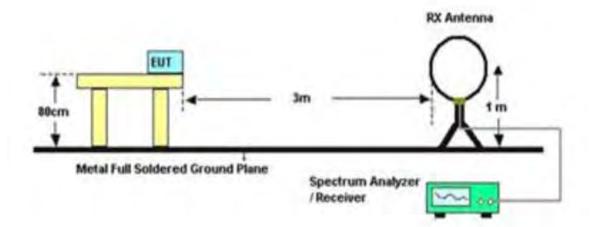
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

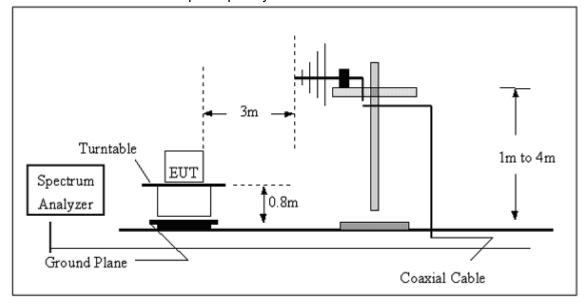


3.2.4 TEST SETUP

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

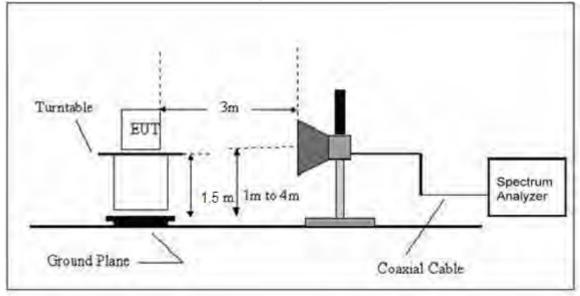


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(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 (BELOW 30 MHZ)

EUT:	Tablet PC	Model Name :	W7421
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				Р
				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 =20 log (specific distance/test distance)(dB);

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



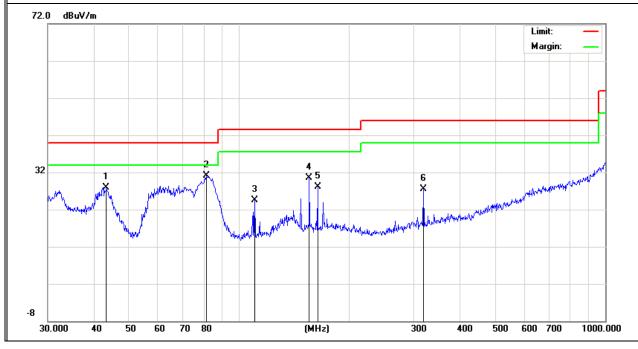
3.2.7 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

EUT:	Tablet PC	Model Name :	W7421
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	TX
Test Voltage :	DC 3.7V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rtornark
V	43.3534	14.94	12.92	27.86	40.00	-12.14	QP
V	81.4970	21.98	9.09	31.07	40.00	-8.93	QP
V	110.1816	14.19	10.23	24.42	43.50	-19.08	QP
V	155.3644	18.61	11.84	30.45	43.50	-13.05	QP
V	163.7548	16.41	11.68	28.09	43.50	-15.41	QP
V	318.8170	14.39	13.18	27.57	46.00	-18.43	QP

Remark:

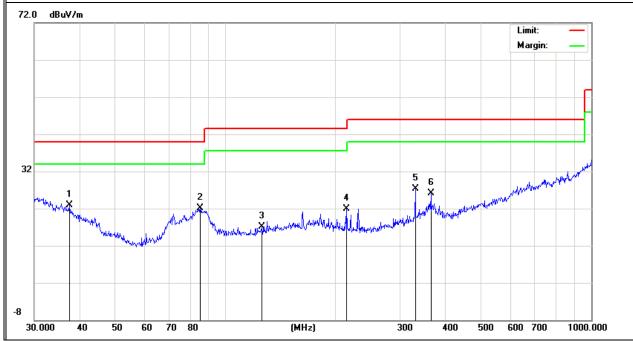
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit





Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rtomant
Н	37.4165	6.76	16.09	22.85	40.00	-17.15	peak
Н	85.2980	12.86	9.18	22.04	40.00	-17.96	peak
Н	125.8864	6.33	10.70	17.03	43.50	-26.47	peak
Н	214.5142	10.96	11.04	22.00	43.50	-21.50	peak
Н	330.1949	13.66	13.65	27.31	46.00	-18.69	peak
Н	364.2595	11.68	14.47	26.15	46.00	-19.85	peak

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





3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	Tablet PC	Model Name :	W7421
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010hPa	Test Mode:	TX
Test Mode :	DC 3.7V		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remar	Commort
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	k	Comment
Low Channel (2402 MHz)-Above 1G							
4804.336	62.53	-3.64	58.89	74.00	-15.11	Pk	Vertical
4804.336	42.18	-3.64	38.54	54.00	-15.46	AV	Vertical
7206.197	60.21	-0.95	59.26	74.00	-14.74	Pk	Vertical
7206.197	41.79	-0.95	40.84	54.00	-13.16	AV	Vertical
4804.221	61.55	-3.64	57.91	74.00	-16.09	Pk	Horizontal
4804.221	42.17	-3.64	38.53	54.00	-15.47	AV	Horizontal
7206.146	60.33	-0.95	59.38	74.00	-14.62	Pk	Horizontal
7206.146	41.15	-0.95	40.20	54.00	-13.80	AV	Horizontal
		Mid Ch	annel (2441 MHz)- <i>F</i>	Above 1G			
4882.365	61.02	-3.68	57.34	74.00	-16.66	Pk	Vertical
4882.365	44.71	-3.68	41.03	54.00	-12.97	AV	Vertical
7323.352	62.51	-0.82	61.69	74.00	-12.31	Pk	Vertical
7323.352	41.57	-0.82	40.75	54.00	-13.25	AV	Vertical
4882.427	62.59	-3.68	58.91	74.00	-15.09	Pk	Horizontal
4882.427	43.88	-3.68	40.20	54.00	-13.80	AV	Horizontal
7323.182	59.68	-0.82	58.86	74.00	-15.14	Pk	Horizontal
7323.182	42.15	-0.82	41.33	54.00	-12.67	AV	Horizontal
High Channel (2480 MHz)- Above 1G							
4960.114	62.31	-3.59	58.72	74.00	-15.28	Pk	Vertical
4960.114	42.18	-3.59	38.59	54.00	-15.41	AV	Vertical
7440.213	58.46	-0.68	57.78	74.00	-16.22	Pk	Vertical
7440.213	41.77	-0.68	41.09	54.00	-12.91	AV	Vertical
4960.199	61.36	-3.59	57.77	74.00	-16.23	Pk	Horizontal
4960.199	42.79	-3.59	39.20	54.00	-14.80	AV	Horizontal
7440.105	59.84	-0.68	59.16	74.00	-14.84	Pk	Horizontal
7440.105	41.03	-0.68	40.35	54.00	-13.65	AV	Horizontal

Note: Mode 1Mbps is the worst mode.



4. NUMBER OF HOPPING CHANNEL

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS	

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	= the frequency band of operation
RB	RBW=100kHz
VB	VBW ≥ RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.1.1 TEST PROCEDURE

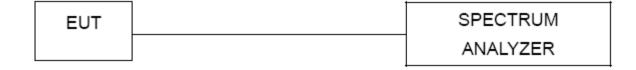
a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b. Spectrum Setting: RBW= 100kHz, VBW=100kHz, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

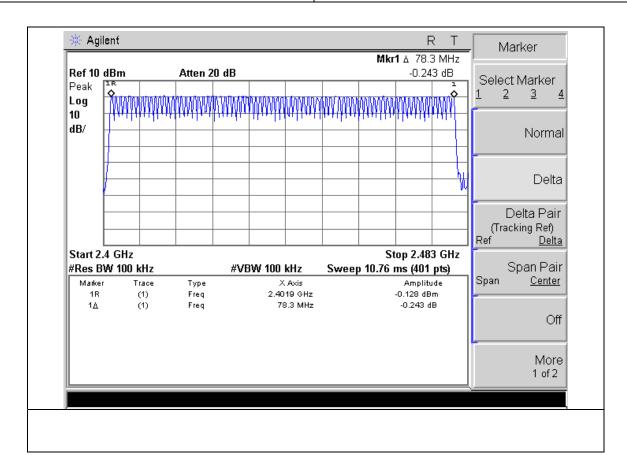
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



4.1.5 TEST RESULTS

EUT:	Tablet PC	Model Name :	W7421
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	Hopping Mode-GFSK		







5. AVERAGE TIME OF OCCUPANCY

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS	

5.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. A Period Time = (channel number)*0.4

DH1 Time Slot: Reading * (1600/2)*31.6/(channel number)
DH3 Time Slot: Reading * (1600/4)*31.6/(channel number)
DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

5.1.2 DEVIATION FROM STANDARD

No deviation.



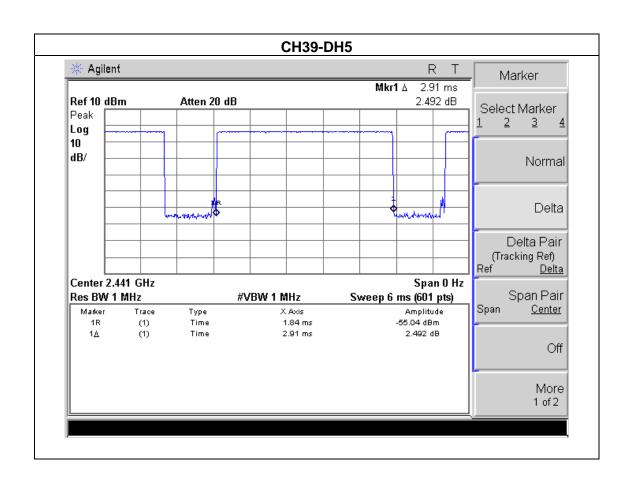
NTEK	Page 34 of 73	Report No.:NTEK-2015NT08242551F2
5.1.3 TEST SETU	P	
EUT		SPECTRUM ANALYZER
5.1.4 EUT OPERA	TION CONDITIONS	711712211
The EUT tested sy operating condition	stem was configured as the statements o is specified in the follows during the testi	f 2.4 Unless otherwise a specialing.



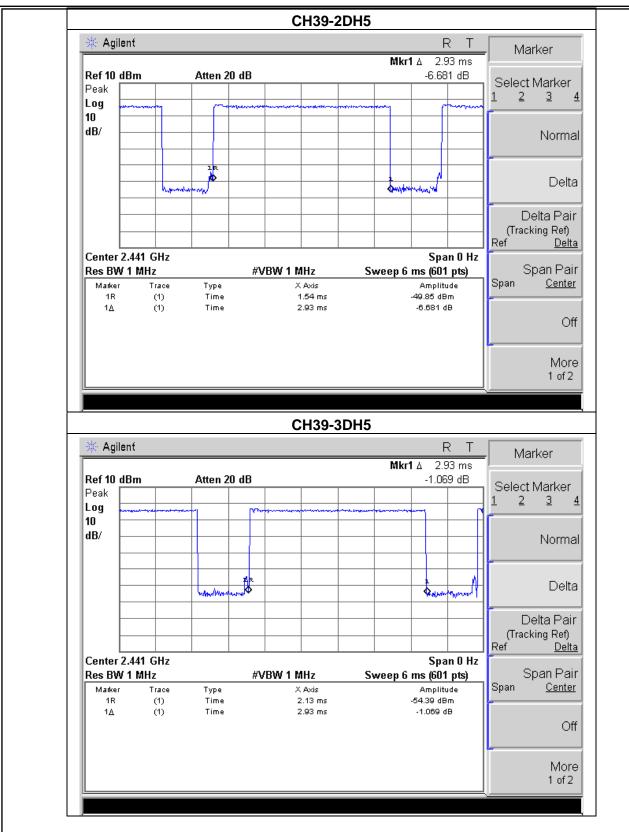
5.1.5 TEST RESULTS

EUT:	Tablet PC	Model Name :	W7421
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH5 ,2DH5,3DH5		

Data Packet	Frequency	Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
DH5	2441 MHz	2.91	0.31	0.4
2DH5	2441 MHz	2.93	0.31	0.4
3DH5	2441 MHz	2.93	0.31	0.4



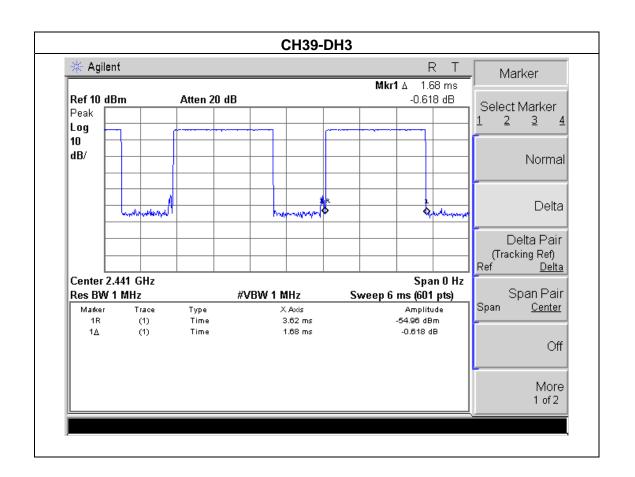




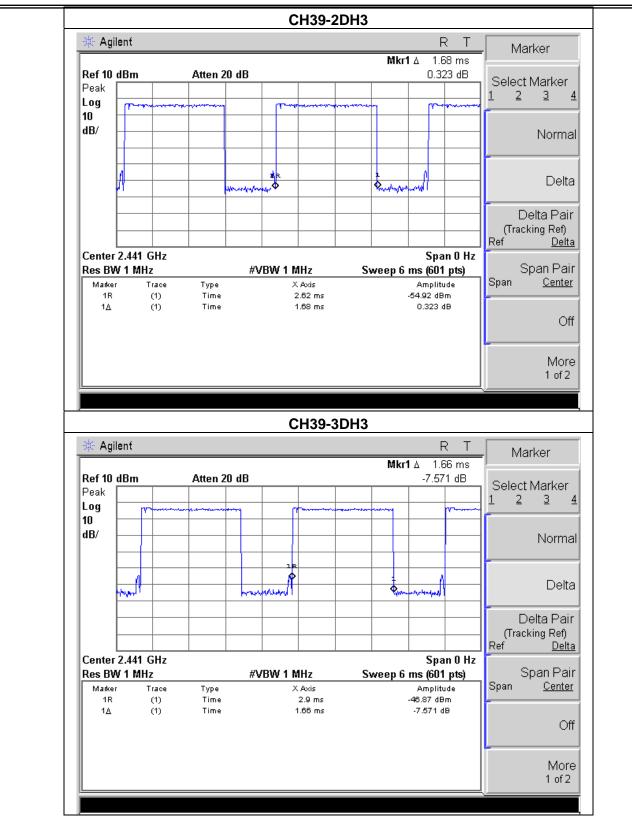


EUT:	Tablet PC	Model Name :	W7421
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH3,2DH3,3DH3	·	

Data Packet	Fraguency	Pulse Duration	Dwell Time	Limits
Data Packet	Frequency	(ms)	(s)	(s)
		(1113)	(3)	(3)
DH3	2441 MHz	1.68	0.27	0.4
2DH3	2441 MHz	1.68	0.27	0.4
3DH3	2441 MHz	1.66	0.27	0.4



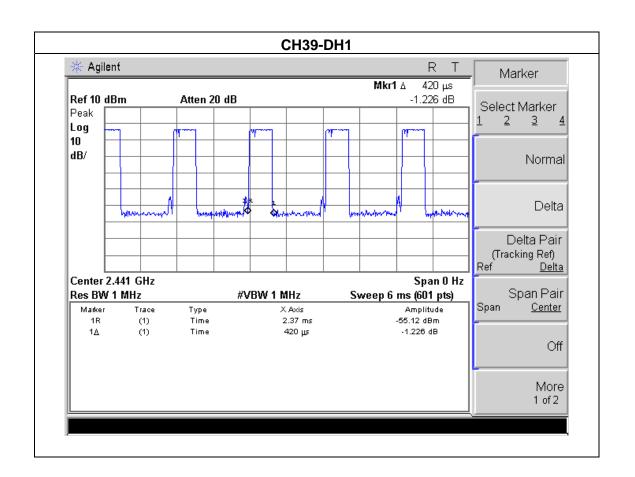




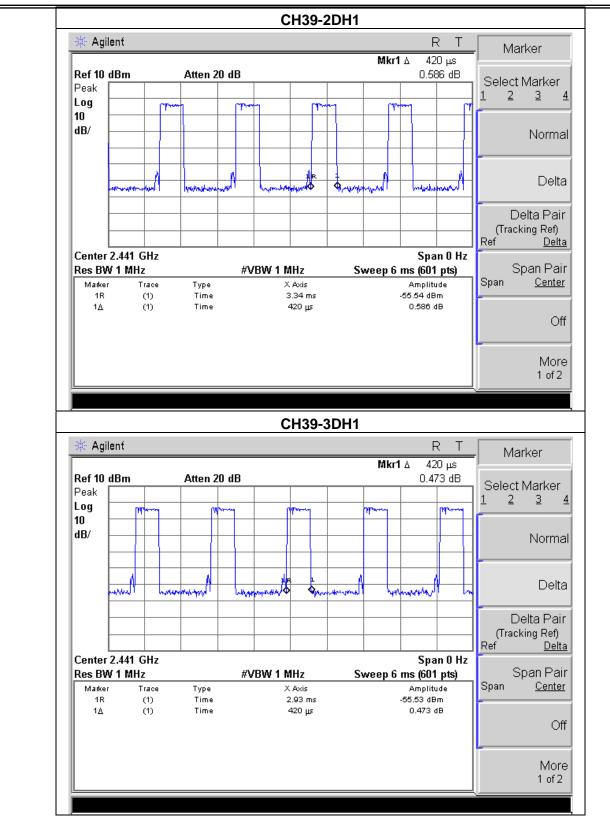


EUT:	Tablet PC	Model Name :	W7421
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH1,2DH1,3DH1		

Data Packet Frequency		Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
DH1	2441 MHz	0.42	0.13	0.4
2DH1	2441 MHz	0.42	0.13	0.4
3DH1	2441 MHz	0.42	0.13	0.4









6. HOPPING CHANNEL SEPARATION MEASUREMENT

6.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (Channel Separation)
VB	100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

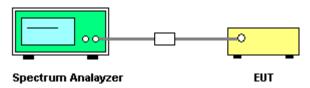
6.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

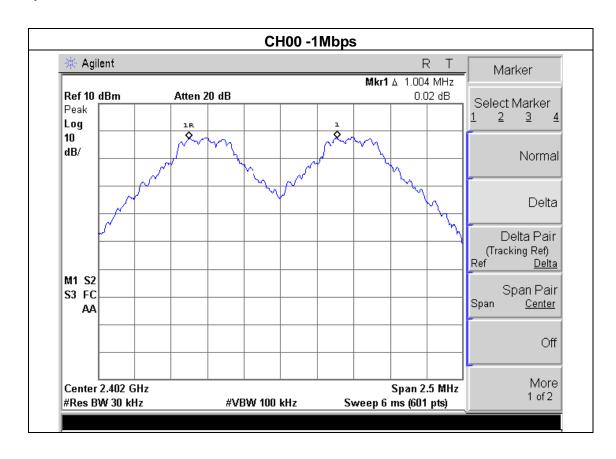


6.1.5 TEST RESULTS

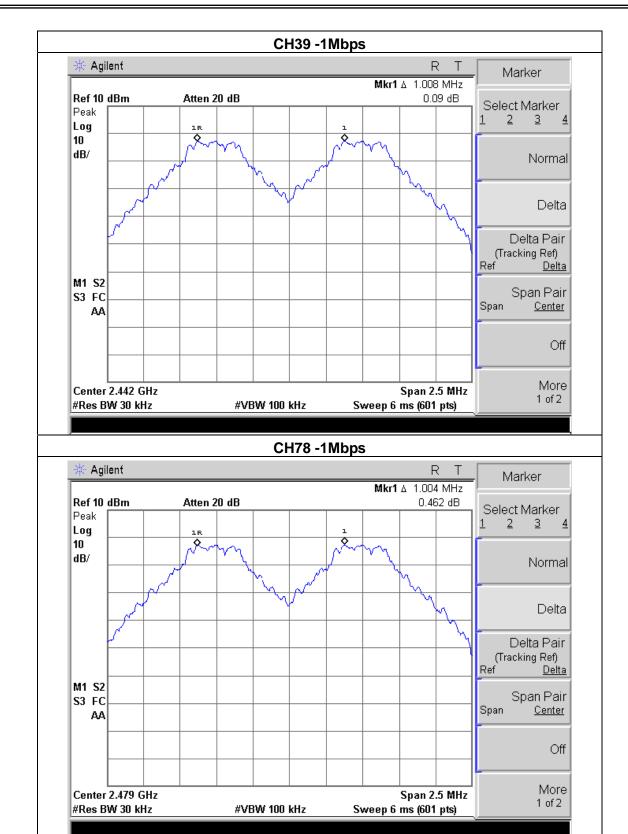
EUT:	Tablet PC	Model Name :	W7421
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (1Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.004	Complies
2441 MHz	1.008	Complies
2480 MHz	1.004	Complies

Ch. Separation Limits: > 20dB bandwidth





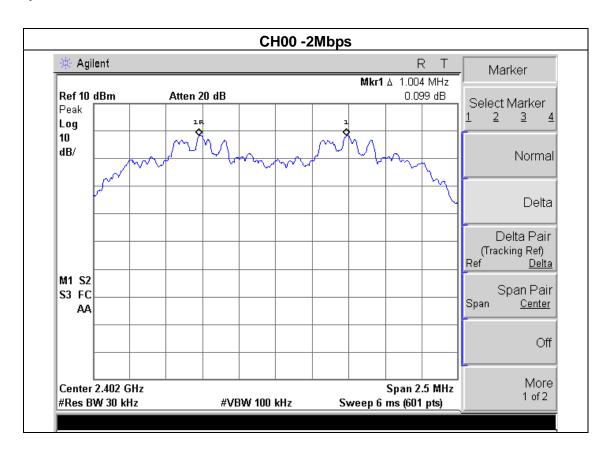




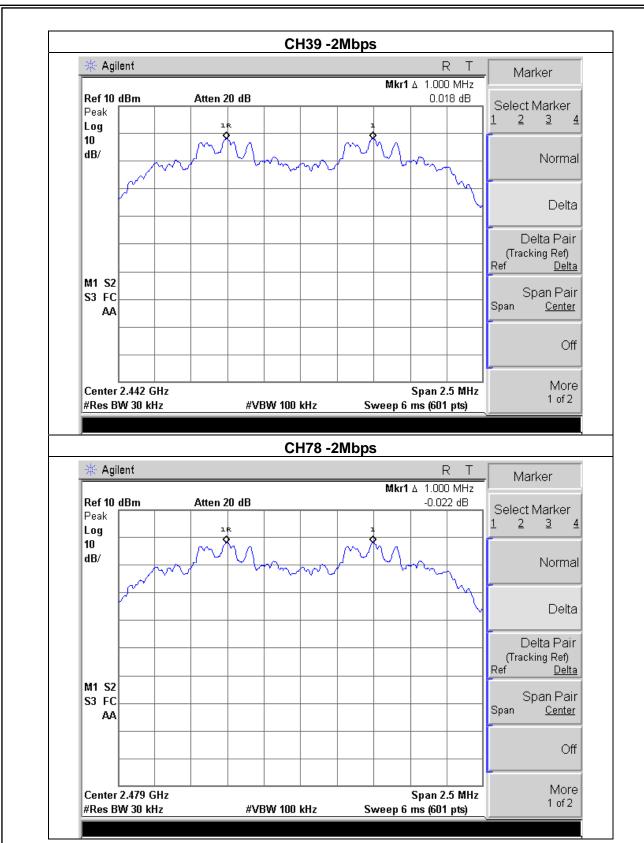
EUT:	Tablet PC	Model Name :	W7421
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (2Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.004	Complies
2441 MHz	1.000	Complies
2480 MHz	1.000	Complies

Ch. Separation Limits: >2/3 of 20dB bandwidth





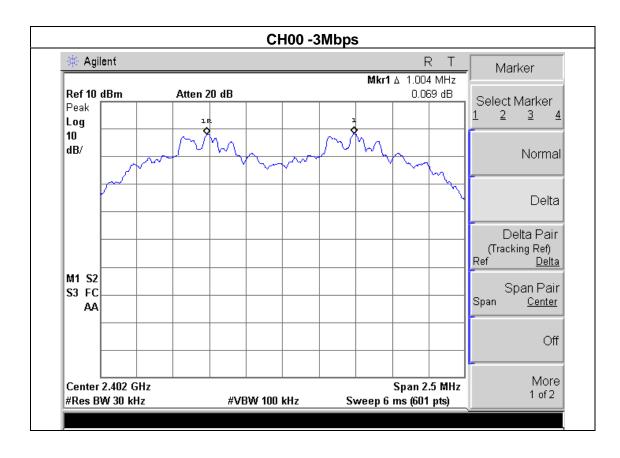




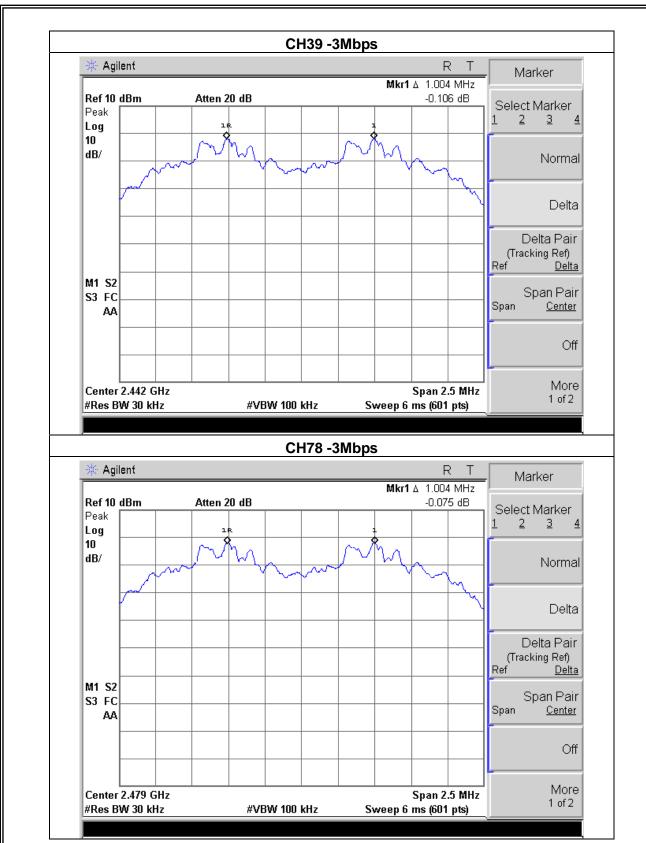
EUT:	Tablet PC	Model Name :	W7421
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (3Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.004	Complies
2441 MHz	1.004	Complies
2480 MHz	1.004	Complies

Ch. Separation Limits: >2/3 of 20dB bandwidth









7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

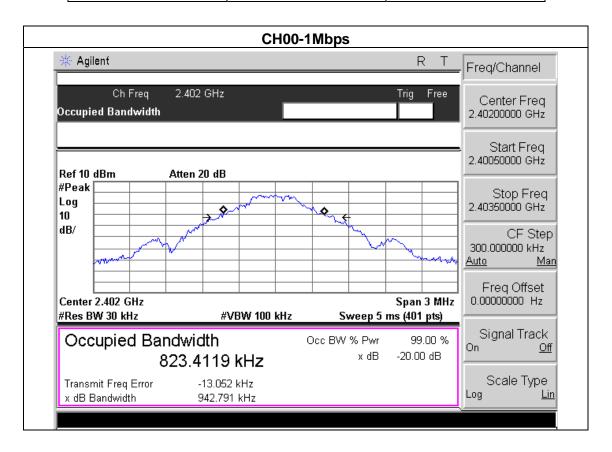
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



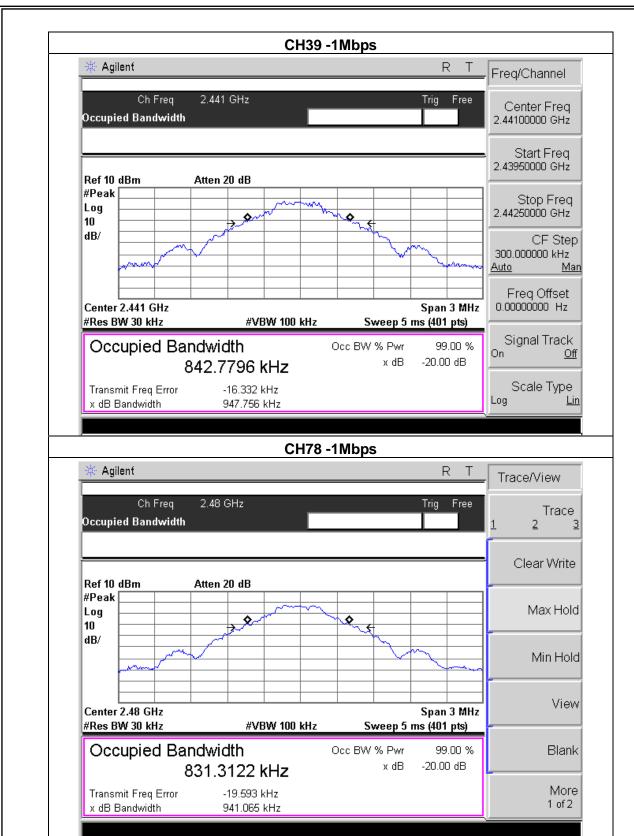
7.1.5 TEST RESULTS

EUT:	Tablet PC	Model Name :	W7421
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(1Mbps)		

Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	942.791	PASS
2441 MHz	947.756	PASS
2480 MHz	941.065	PASS







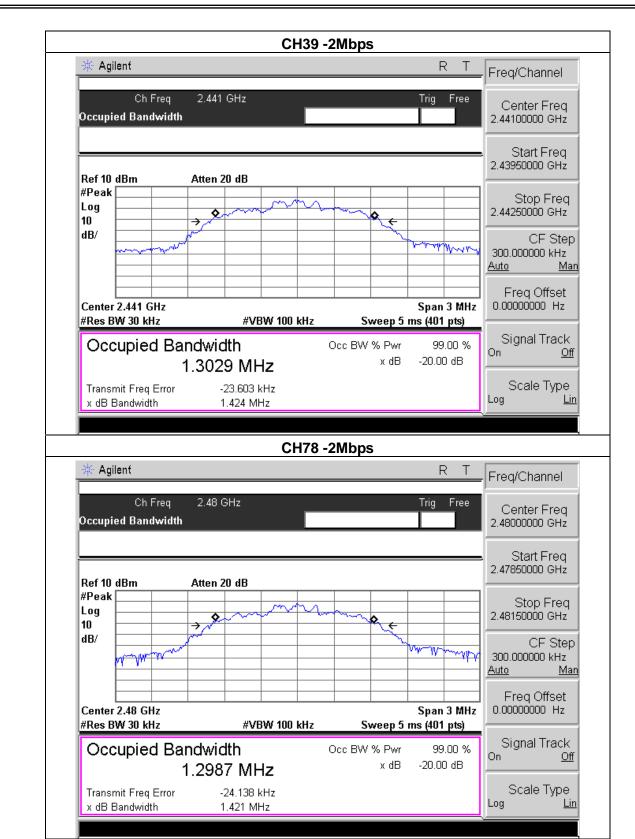


EUT:	Tablet PC	Model Name :	W7421
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(2Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.414	PASS
2441 MHz	1.424	PASS
2480 MHz	1.421	PASS



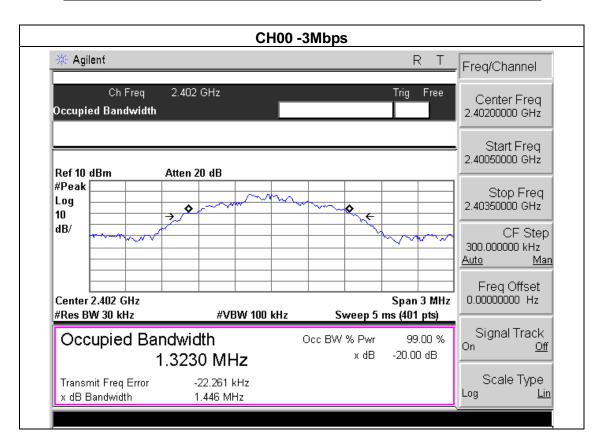




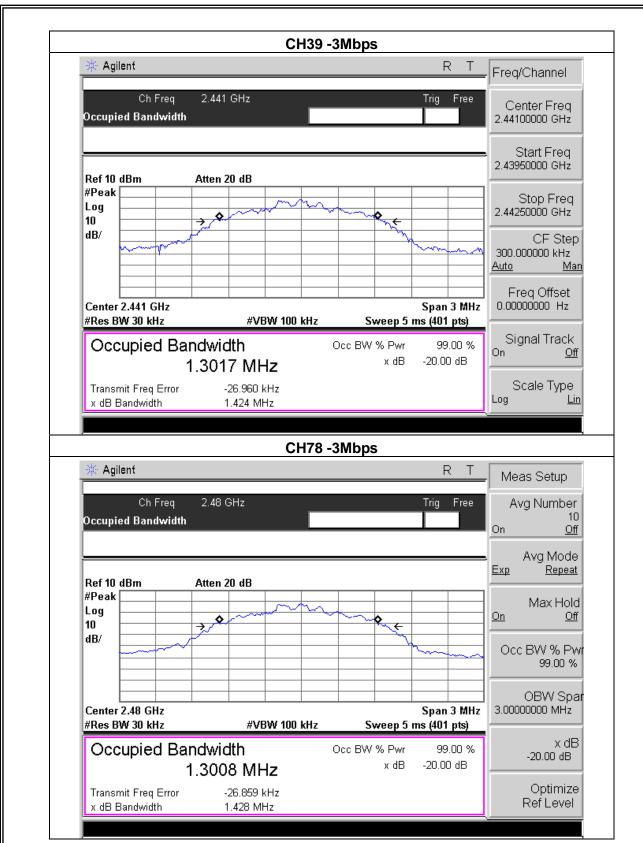


EUT:	Tablet PC	Model Name :	W7421
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(3Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.446	PASS
2441 MHz	1.424	PASS
2480 MHz	1.428	PASS









8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(i)	Peak Output Power	0.125 w or 20.96dBm	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW > the 20 dB bandwidth of the emission being measured

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

Trace = max hold

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

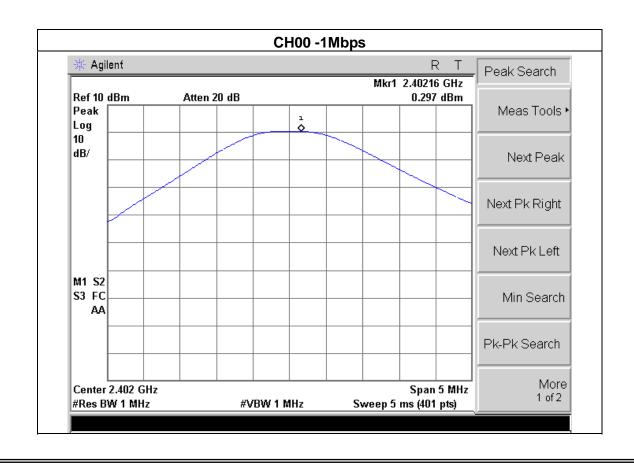
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



8.1.5 TEST RESULTS

EUT:	Tablet PC	Model Name :	W7421
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)		

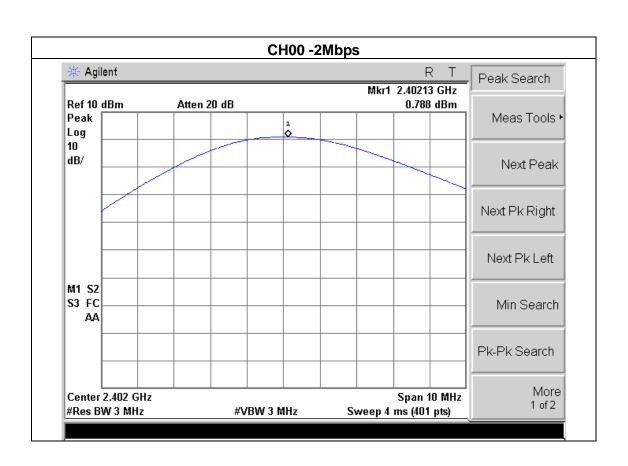
1Mbps			
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)
CH00	2402	0.297	30
CH39	2441	0.050	30
CH78	2480	0.066	30
2Mbps			
CH00	2402	0.788	20.96
CH39	2441	0.819	20.96
CH78	2480	0.900	20.96
3Mbps			
CH00	2402	0.727	20.96
CH39	2441	0.756	20.96
CH78	2480	0.803	20.96



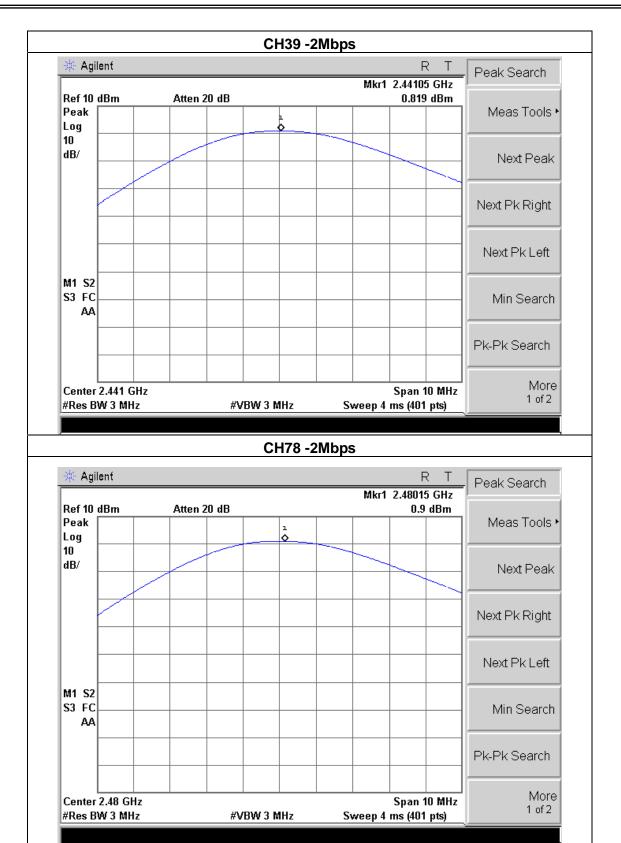




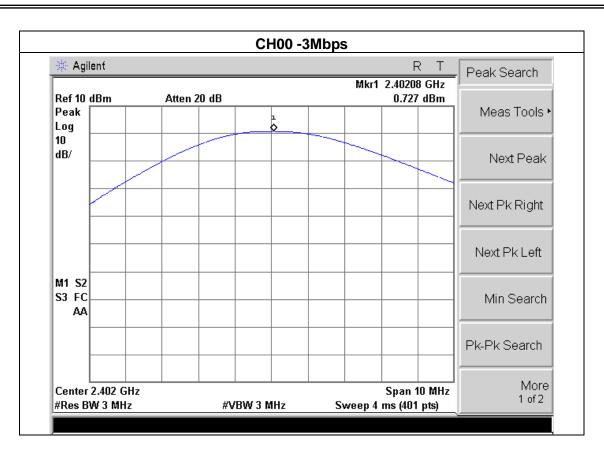




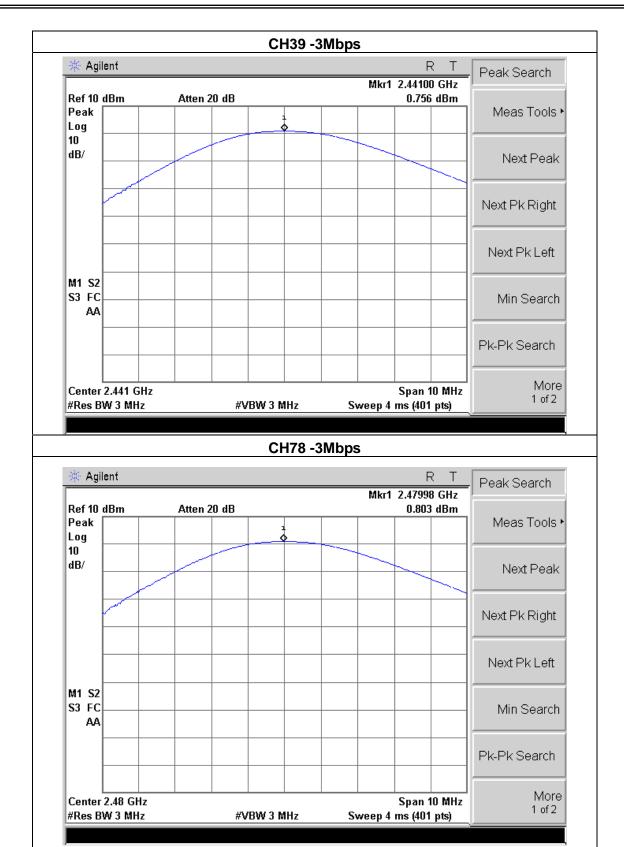














9. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

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.

9.1 DEVIATION FROM STANDARD

No deviation.

9.2 TEST SETUP

EUT	SPECTRUM
	ANALYZER

9.3 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.



9.4 TEST RESULTS

EUT:	Tablet PC	Model Name :	W7421
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00/ CH78 (1M/2M/3Mbps Mode)		

Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result				
1Mbps Non-hopping							
2400	53.97	20	Pass				
2483.5	59.73	20	Pass				
	2Mbps Non-hopping						
2400	48.93	20	Pass				
2483.5	59.21	20	Pass				
3Mbps Non-hopping							
2400	45.52	20	Pass				
2483.5	59.39	20	Pass				
1Mbps hopping							
2400	57.76	20	Pass				
2483.5	49.53	20	Pass				
2Mbps hopping							
2400	56.26	20	Pass				
2483.5	46.98	20	Pass				
3Mbps hopping							
2400	48.53	20	Pass				
2483.5	51.48	20	Pass				

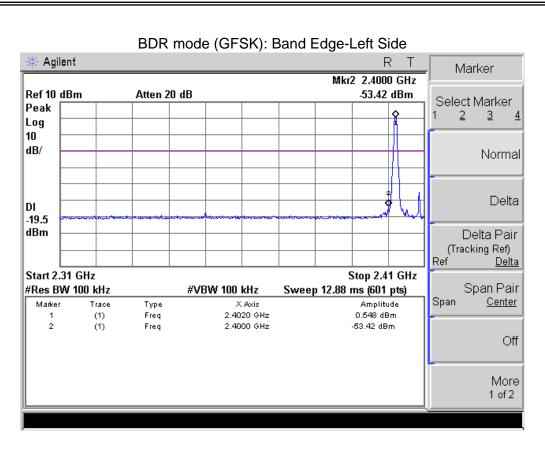


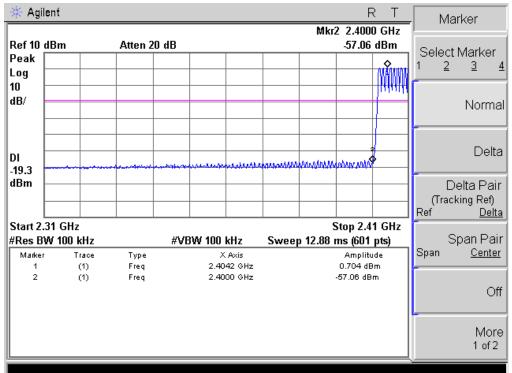
Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Commont
(MHz)	(dBμV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
	1Mbps Non-hopping						
2390	58.96	-13.06	45.90	74.00	-28.10	peak	Vertical
2390	56.48	-13.06	43.42	74.00	-30.58	peak	Horizontal
2483.5	60.21	-12.78	47.43	74.00	-26.57	peak	Vertical
2483.5	59.32	-12.78	46.54	74.00	-27.46	peak	Horizontal
			1Mbps hoppin	g			
2390	61.21	-13.06	48.15	74.00	-25.85	peak	Vertical
2390	60.56	-13.06	47.50	74.00	-26.50	peak	Horizontal
2483.5	59.79	-12.78	47.01	74.00	-26.99	peak	Vertical
2483.5	59.63	-12.78	46.85	74.00	-27.15	peak	Horizontal
2Mbps Non-hopping							
2390	59.67	-13.06	46.61	74.00	-27.39	peak	Vertical
2390	59.85	-13.06	46.79	74.00	-27.21	peak	Horizontal
2483.5	60.11	-12.78	47.33	74.00	-26.67	peak	Vertical
2483.5	58.74	-12.78	45.96	74.00	-28.04	peak	Horizontal
2Mbps hopping							
2390	59.67	-13.06	46.61	74.00	-27.39	peak	Vertical
2390	59.04	-13.06	45.98	74.00	-28.02	peak	Horizontal
2483.5	58.82	-12.78	46.04	74.00	-27.96	peak	Vertical
2483.5	57.63	-12.78	44.85	74.00	-29.15	peak	Horizontal
	3Mbps Non-hopping						1
2390	59.02	-13.06	45.96	74.00	-28.04	peak	Vertical
2390	60.32	-13.06	47.26	74.00	-26.74	peak	Horizontal
2483.5	59.14	-12.78	46.36	74.00	-27.64	peak	Vertical
2483.5	58.97	-12.78	46.19	74.00	-27.81	peak	Horizontal
3Mbps hopping							
2390	60.21	-13.06	47.15	74.00	-26.85	peak	Vertical
2390	57.66	-13.06	44.60	74.00	-29.40	peak	Horizontal
2483.5	59.01	-12.78	46.23	74.00	-27.77	peak	Vertical
2483.5	58.89	-12.78	46.11	74.00	-27.89	peak	Horizontal

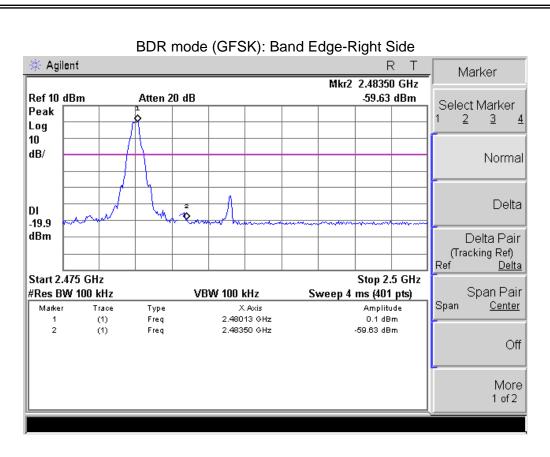
Note: Refer to chapter 3.2 test method, When PK value is lower than the Average value limit, average didn't record.

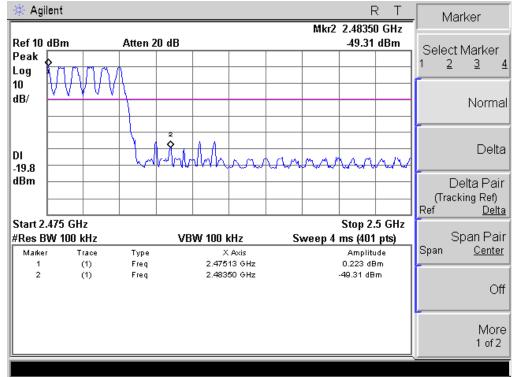




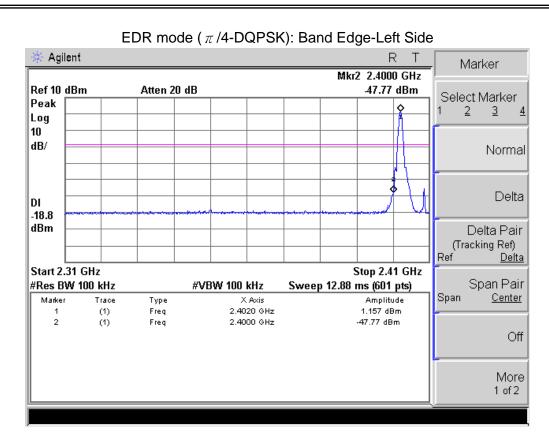


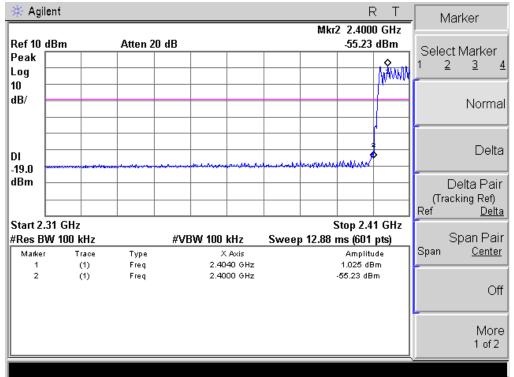




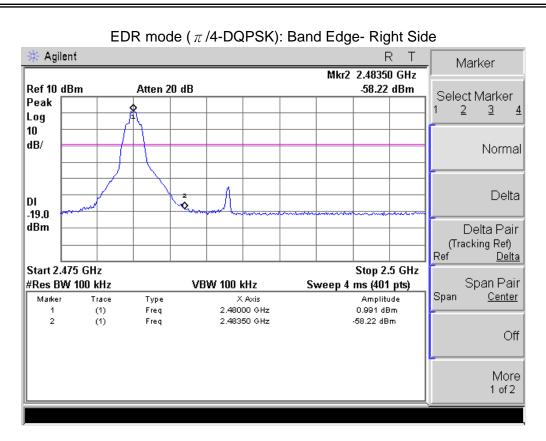


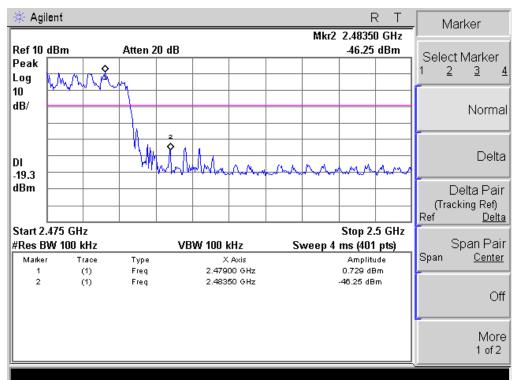




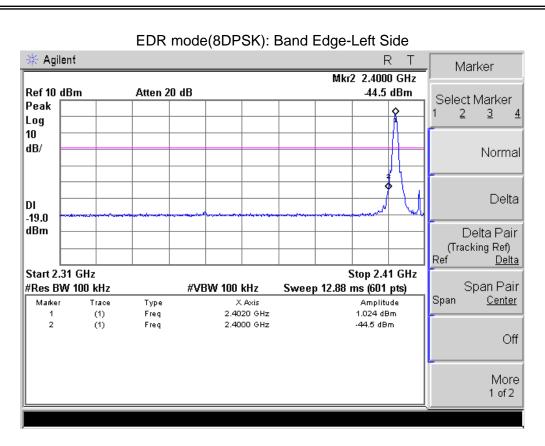


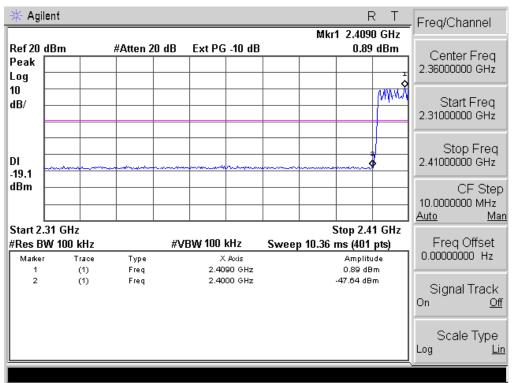




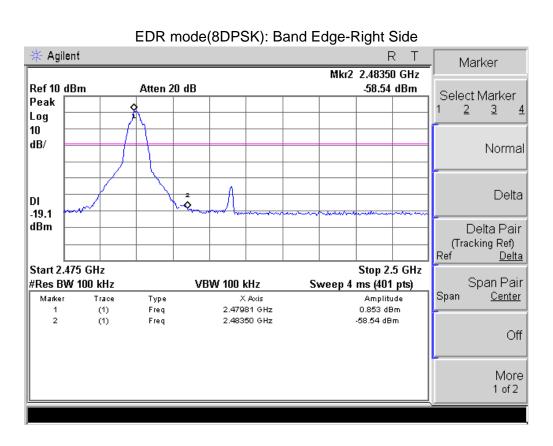


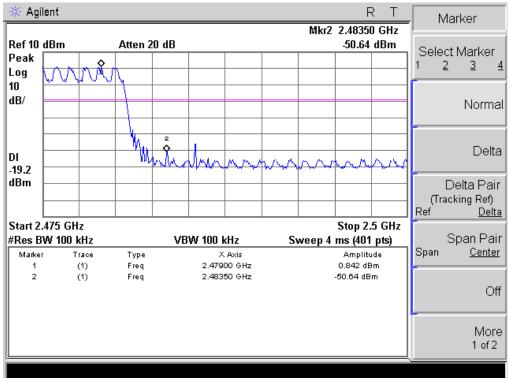












NOTE: Hopping enabled and disabled have evaluated, and the wortest data was reported



10. ANTENNA REQUIREMENT

10.1 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.

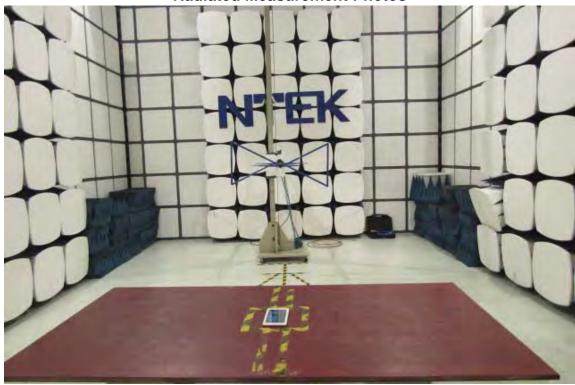
10.2 EUT ANTENNA

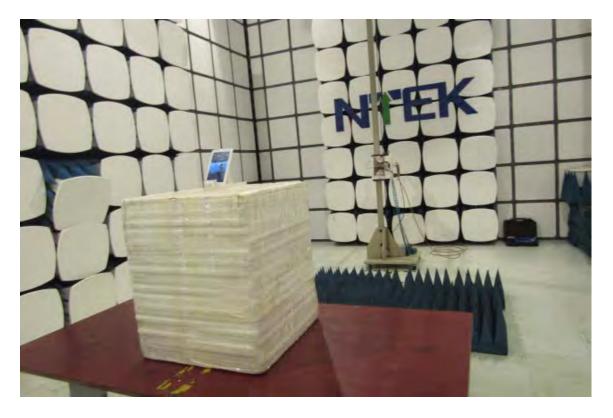
The EUT antenna is permanent attached antenna. It comply with the standard rec	quirement.
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11. EUT TEST PHOTO









CONDUCTED EMISSION Photos



