

RADIO TEST REPORT FCC ID: 2AAWC-769TPC

Product: SupraPad Tablet PC

Trade Name: iview

Model No.: 769TPC

Serial Model: N/A

Report No.: NTEK-2016NT08048078F2

Issue Date: 17 Aug. 2016

Prepared for

Wiltronic Corporation
13939 Central Ave, Chino, CA, United States, 91710

Prepared by

NTEK TESTING TECHNOLOGY CO., LTD.

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1 TEST RESULT CERTIFICATION

Applicant's name:	Wiltronic Corporation
Address:	13939 Central Ave, Chino, CA, United States, 91710
Manufacture's Name:	Wiltronic Corporation
Address	13939 Central Ave, Chino, CA, United States, 91710
Product description	
Product name:	SupraPad Tablet PC
Model and/or type reference:	769TPC
Serial Model:	N/A

Measurement Procedure Used:

APPLICABLE	STANDARDS
STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J:2015 FCC 47 CFR Part 15, Subpart C:2015 KDB 174176 D01 Line Conducted FAQ v01r01 ANSI C63.10-2013 DA 00-705	Complied

This device described above has been tested by NTEK Testing Technology Co., Ltd., 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 Testing Technology Co., Ltd., this document may be altered or revised by NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

The test results of this report relate only to the tested sample identified in this report.

: <u> </u>	04 Aug. 2016 ~ 17 Aug. 2016
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2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C			
Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	PASS	
15.247(c)	Radiated Spurious Emission	PASS	
15.247(a)(1)	Hopping Channel Separation	PASS	
15.247(b)(1)	Peak Output Power	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	

Remark:

- 1. "N/A" denotes test is not applicable in this Test Report.
- 2. All test items were verified and recorded according to the standards and without any deviation during the test.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

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

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

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Accredited by CNAS, 2014.09.04

The certificate is valid until 2017.09.03

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)

The Certificate Registration Number is L5516.

Accredited by FCC, September 6, 2013

The Certificate Registration Number is 238937.

Accredited by Industry Canada, August 29, 2012 The Certificate Registration Number is 9270A-1.

Name of Firm : NTEK Testing Technology Co., Ltd

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

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%	

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	SupraPad Tablet PC	
Trade Name	iview°	
FCC ID	2AAWC-769TPC	
Model No.	769TPC	
Serial Model	N/A	
Model Difference	N/A	
Operating Frequency	2402MHz~2480MHz	
Modulation	GFSK, π/4-DQPSK, 8DPSK	
Number of Channels	79 Channels	
Antenna Type	FPCB Antenna	
Antenna Gain	1.35 dBi	
Power supply	☐ Adapter supply: Model: JK050150-S02USD Input: 100-240V~, 50/60Hz, 0.3A Max Output: 5V, 1500mA	
HW Version	N/A	
SW Version	Iview_769TPC_20160817	

Note: 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.





Revision History

Report No.	Version	Description	Issued Date
NTEK-2016NT08048078F2	Rev.01	Initial issue of report	Aug 17, 2016



5 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.

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The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation; 2Mbps for $\pi/4$ -DQPSK modulation; 3Mbps for 8DPSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2403
	•••
39	2441
40	2442
	•••
77	2479
78	2480

Note: $fc=2402MHz+k\times 1MHz$ k=0 to 78

The following summary table is showing all test modes to demonstrate in compliance with the standard.

For AC Conducted Emission		For AC Conducted Emission
	Final Test Mode	Description
	Mode 4	normal link mode

Note: AC power line Conducted Emission was tested under maximum output power.

For Radiated Test Cases	
Final Test Mode	Description
Mode 1	CH00(2402MHz)
Mode 2	CH39(2441MHz)
Mode 3	CH78(2480MHz)
Mode 4	normal link mode

Note: For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

For Conducted Test Cases	
Final Test Mode	Description
Mode 1	CH00(2402MHz)
Mode 2	CH39(2441MHz)
Mode 3	CH78(2480MHz)

Note: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.



SETUP OF EQUIPMENT UNDER TEST 6 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM For AC Conducted Emission Mode Earphone Adapter C2 For Radiated Test Cases **EUT** For Conducted Test Cases Measurement СЗ **EUT** Instrument



6.2 SUPPORT EQUIPMENT

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.	FCC ID	Note
E-1	SupraPad Tablet PC	iv iew°	769TPC	2AAWC-769TPC	EUT
E-2	Adapter	N/A	JK050150-S02USD	N/A	Peripherals
E-3	Earphone	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	1.0m
C-2	Earphone	NO	NO	0.8m
C-3	RF Cable	NO	NO	0.5m

Notes:

- (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".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

	ion root oquipi						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY46186938	2015.11.19	2016.11.18	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-1018 0	2011071402	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2015.12.22	2016.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.07	2017.06.06	1 year
10	Power Meter	R&S	NRVS	100696	2016.07.06	2017.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2016.07.06	2017.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2016.07.06	2017.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2016.07.06	2017.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2016.06.07	2017.06.06	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	6200264417	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.07	2017.06.06	1 year
7	Test Cable	N/A	C01	N/A	2016.06.07	2017.06.06	1 year
8	Test Cable	N/A	C02	N/A	2016.06.07	2017.06.06	1 year
9	Test Cable	N/A	C03	N/A	2016.06.07	2017.06.06	1 year

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



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a) and KDB 174176 D01 Line Conducted FAQ v01r01

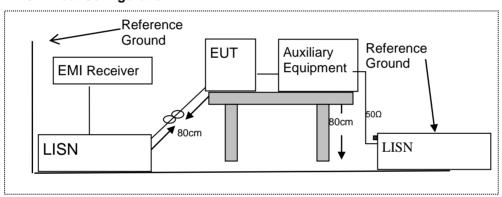
7.1.2 Conformance Limit

Fraguanay/MHz)	Conducted Emission Limit				
Frequency(MHz)	Quasi-peak	Average			
0.15-0.5	66-56*	56-46*			
0.5-5.0	56	46			
5.0-30.0	60	50			

Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
- 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Test Configuration



7.1.4 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

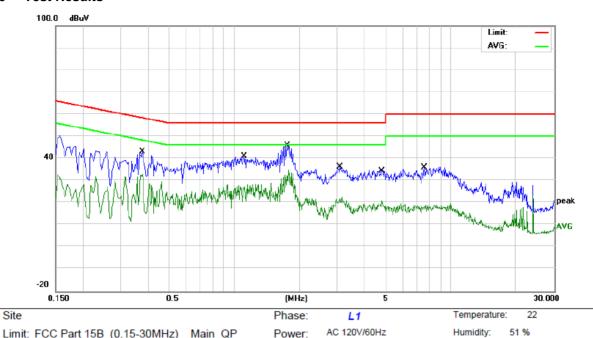
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. 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 40cm long.
- 5. 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.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.

7.1.5 Test Results

Pass



7.1.6 Test Results



Limit: FCC Part 15B_(0.15-30MHz) _Main_QP

Mode: Normal link

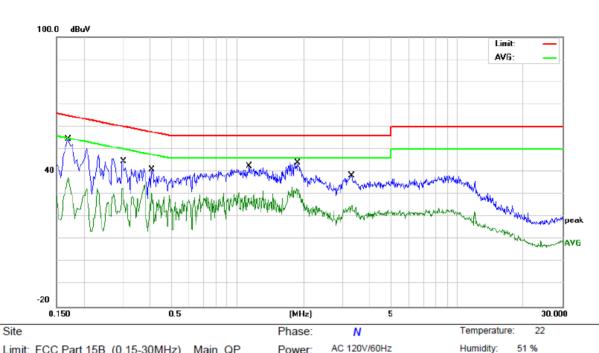
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3780	33.06	10.06	43.12	58.32	-15.20	QP	
2		0.3780	22.87	10.06	32.93	48.32	-15.39	AVG	
3		1.1140	31.19	9.86	41.05	56.00	-14.95	QP	
4		1.1140	16.53	9.86	26.39	46.00	-19.61	AVG	
5	*	1.7540	35.93	9.79	45.72	56.00	-10.28	QP	
6		1.7540	20.33	9.79	30.12	46.00	-15.88	AVG	
7		3.0820	26.46	9.79	36.25	56.00	-19.75	QP	
8		3.0820	12.51	9.79	22.30	46.00	-23.70	AVG	
9		4.8019	24.73	9.83	34.56	56.00	-21.44	QP	
10		4.8019	11.03	9.83	20.86	46.00	-25.14	AVG	
11		7.5339	26.06	9.85	35.91	60.00	-24.09	QP	
12		7.5339	8.43	9.85	18.28	50.00	-31.72	AVG	

Power:

^{*:}Maximum data x:Over limit !:over margin





Limit: FCC Part 15B_(0.15-30MHz) _Main_QP

Mode: Normal link

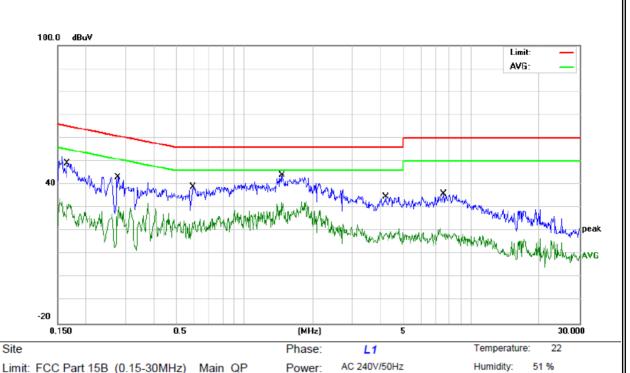
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1700	44.39	10.06	54.45	64.96	-10.51	QP	
2		0.1700	27.46	10.06	37.52	54.96	-17.44	AVG	
3		0.3020	34.42	10.13	44.55	60.19	-15.64	QP	
4		0.3020	19.81	10.13	29.94	50.19	-20.25	AVG	
5		0.4100	31.06	10.04	41.10	57.65	-16.55	QP	
6		0.4100	15.73	10.04	25.77	47.65	-21.88	AVG	
7		1.1300	32.54	9.87	42.41	56.00	-13.59	QP	
8		1.1300	17.09	9.87	26.96	46.00	-19.04	AVG	
9		1.8860	34.26	9.79	44.05	56.00	-11.95	QP	
10		1.8860	23.01	9.79	32.80	46.00	-13.20	AVG	
11		3.2940	28.50	9.78	38.28	56.00	-17.72	QP	
12		3.2940	14.92	9.78	24.70	46.00	-21.30	AVG	

Power:

^{*:}Maximum data x:Over limit !:over margin





Limit: FCC Part 15B_(0.15-30MHz) _Main_QP

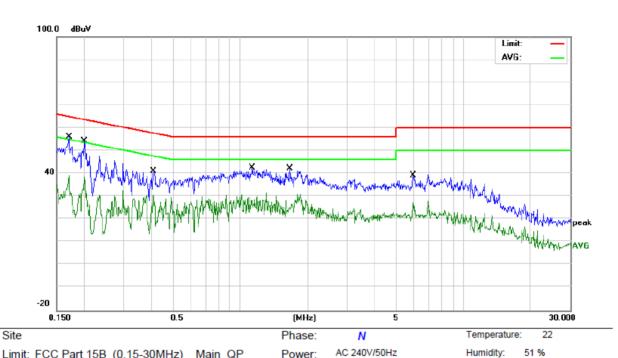
Mode: Normal link

Note:

No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1650	38.98	10.12	49.10	65.20	-16.10	QP	
2	0.1650	20.91	10.12	31.03	55.20	-24.17	AVG	
3	0.2757	33.16	10.14	43.30	60.94	-17.64	QP	
4	0.2757	17.89	10.14	28.03	50.94	-22.91	AVG	
5	0.5939	29.03	9.80	38.83	56.00	-17.17	QP	
6	0.5939	11.28	9.80	21.08	46.00	-24.92	AVG	
7 *	1.4659	34.39	9.81	44.20	56.00	-11.80	QP	
8	1.4659	19.31	9.81	29.12	46.00	-16.88	AVG	
9	4.1939	24.81	9.81	34.62	56.00	-21.38	QP	
10	4.1939	9.22	9.81	19.03	46.00	-26.97	AVG	
11	7.5339	26.06	9.85	35.91	60.00	-24.09	QP	
12	7.5339	8.43	9.85	18.28	50.00	-31.72	AVG	

^{*:}Maximum data x:Over limit !:over margin





Limit: FCC Part 15B_(0.15-30MHz) _Main_QP

Mode: Normal link

Note:

No. M	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *		0.1703	45.94	10.06	56.00	64.94	-8.94	QP	
2		0.1703	27.12	10.06	37.18	54.94	-17.76	AVG	
3		0.1995	44.28	10.02	54.30	63.63	-9.33	QP	
4		0.1995	28.59	10.02	38.61	53.63	-15.02	AVG	
5		0.4098	31.06	10.04	41.10	57.65	-16.55	QP	
6		0.4098	15.73	10.04	25.77	47.65	-21.88	AVG	
7		1.1298	32.54	9.87	42.41	56.00	-13.59	QP	
8		1.1298	17.09	9.87	26.96	46.00	-19.04	AVG	
9		1.6698	32.53	9.82	42.35	56.00	-13.65	QP	
10		1.6698	15.78	9.82	25.60	46.00	-20.40	AVG	
11		5.9537	29.40	9.80	39.20	60.00	-20.80	QP	
12		5.9537	17.48	9.80	27.28	50.00	-22.72	AVG	

Power:

^{*:}Maximum data x:Over limit !:over margin



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and DA 00-705

7.2.2 Conformance Limit

According to FCC Part 15.247(d): 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)). According to FCC Part15.205. Restricted bands

according to FCC Fart 13.203, restricted bands									
MHz	MHz	MHz	GHz						
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15						
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46						
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75						
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5						
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2						
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5						
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7						
6.26775-6.26825	123-138	2200-2300	14.47-14.5						
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2						
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4						
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12						
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0						
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8						
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5						
12.57675-12.57725	322-335.4	3600-4400	(2)						
13.36-13.41									

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.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	2400/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)			
1 requericy(ivii iz)	PEAK	AVERAGE		
Above 1000	74	54		

Remark :1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

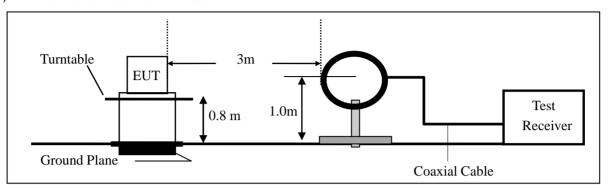
7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.



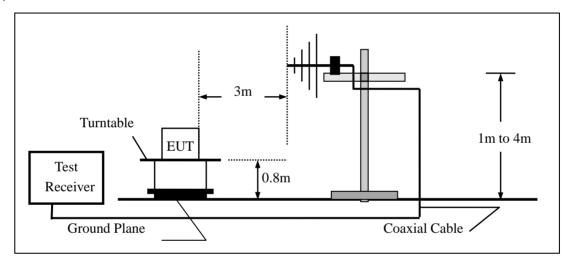
7.2.4 Test Configuration

(a) For radiated emissions below 30MHz

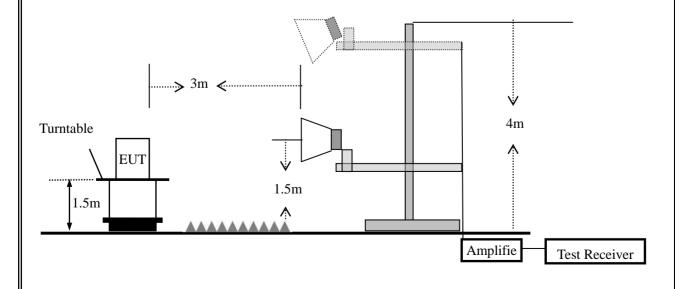


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(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz





7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted 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

- 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. 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.

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)	Frequency Band (MHz) Function		Video Bandwidth
30 to 1000 QP		120 kHz	300 kHz
Above 4000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.



7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	N/A	Test By:	Susan Su

Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3	m(dBuV/m)	Over(dB)	
(MHz)	H/V	PK	AV	`AV ´ PK \ AV ´		PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

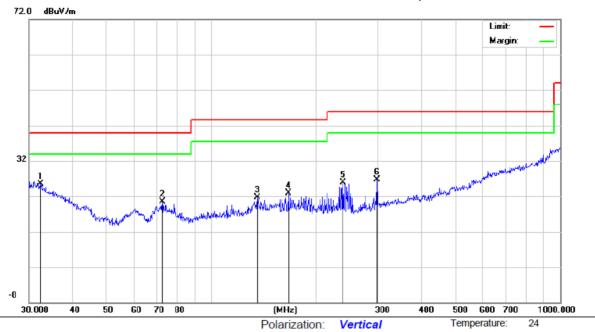
Limit line=Specific limits(dBuV) + distance extrapolation factor

Humidity:

50 %



■ Spurious Emission below 1GHz (30MHz to 1GHz)
All the modulation modes have been tested, and the worst result was report as below:



AC 120V/60Hz

Limit: FCC PART15 B 03m QP

Mode: Normal Link

Note:

Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m dBuV/m dB Detector 32.4059 6.22 25.48 40.00 19.26 -14.52 QΡ 2 72.3375 9.93 10.56 20.49 40.00 -19.51 QP 3 135.5062 9.64 12.06 21.70 43.50 -21.80 QP 4 166.0680 9.93 12.96 22.89 43.50 -20.61 QP 238.3102 13.94 11.98 25.92 46.00 5 -20.08 QP 298.2681 12.98 13.79 26.77 46.00 6 -19.23 QP

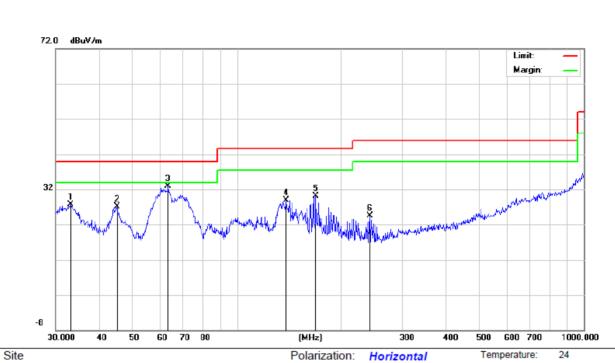
Power:

^{*:}Maximum data x:Over limit !:over margin

Humidity:

50 %





Limit: FCC_PART15_B_03m_QP

Mode: Normal Link

Note:

Reading Correct Measure-Limit Over No. Mk. Freq. Factor Level ment MHz dBuV dB dBuV/m dBuV/m dB Detector 27.75 1 33.2111 9.01 18.74 40.00 -12.25 QP 45.0583 27.07 14.77 12.30 40.00 -12.93 QP 2 6.51 3 * 63.3132 26.43 32.94 40.00 -7.06 QP 138.8735 16.83 12.09 28.92 43.50 -14.58 QP 4 5 169.0054 16.61 13.44 30.05 43.50 -13.45 QP 241.6760 12.62 11.92 24.54 6 46.00 -21.46

Power:

AC 120V/60Hz

^{*:}Maximum data x:Over limit !:over margin



■ Spurious Emission Above 1GHz (1GHz to 25GHz) EUT: SupraPad Tablet PC Model No.: 769TPC Temperature: 20 °C Relative Humidity: 48% Test Mode: Mode 1/ Mode 2/ Mode 3 Test By: Susan Su

All the modulation modes have been tested, and the worst result was report as below:

Frequenc y	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
			Low	Channel (24	402 MHz)	Above 1G			
4804.21	62.55	5.21	35.59	44.30	59.05	74.00	-14.95	Pk	Vertical
4804.21	40.17	5.21	35.59	44.30	36.67	54.00	-17.33	AV	Vertical
7206.27	59.85	6.48	36.27	44.60	58.00	74.00	-16	Pk	Vertical
7206.27	43.36	6.48	36.27	44.60	41.51	54.00	-12.49	AV	Vertical
4804.11	60.52	5.21	35.55	44.30	56.98	74.00	-17.02	Pk	Horizontal
4804.11	42.29	5.21	35.55	44.30	38.75	54.00	-15.25	AV	Horizontal
7206.22	62.28	6.48	36.27	44.52	60.51	74.00	-13.49	Pk	Horizontal
7206.22	46.74	6.48	36.27	44.52	44.97	54.00	-9.03	AV	Horizontal
			Mid	Channel (24	141 MHz) <i>i</i>	Above 1G			
4882.4	62.33	5.21	35.66	44.20	59.00	74.00	-15.00	Pk	Vertical
4882.4	42.26	5.21	35.66	44.20	38.93	54.00	-15.07	AV	Vertical
7323.24	59.56	7.10	36.50	44.43	58.73	74.00	-15.27	Pk	Vertical
7323.24	46.65	7.10	36.50	44.43	45.82	54.00	-8.18	AV	Vertical
4882.11	60.41	5.21	35.66	44.20	57.08	74.00	-16.92	Pk	Horizontal
4882.11	47.78	5.21	35.66	44.20	44.45	54.00	-9.55	AV	Horizontal
7323.13	59.85	7.10	36.50	44.43	59.02	74.00	-14.98	Pk	Horizontal
7323.13	41.22	7.10	36.50	44.43	40.39	54.00	-13.61	AV	Horizontal
			High	Channel (24	480 MHz)	Above 1G			
4960.4	65.56	5.21	35.52	44.21	62.08	74.00	-11.92	Pk	Vertical
4960.4	42.25	5.21	35.52	44.21	38.77	54.00	-15.23	AV	Vertical
7440.2	60.59	7.10	36.53	44.60	59.62	74.00	-14.38	Pk	Vertical
7440.2	44.47	7.10	36.53	44.60	43.50	54.00	-10.50	AV	Vertical
4960.23	66.69	5.21	35.52	44.21	63.21	74.00	-10.79	Pk	Horizontal
4960.23	46.63	5.21	35.52	44.21	43.15	54.00	-10.85	AV	Horizontal
7440.3	60.52	7.10	36.53	44.60	59.55	74.00	-14.45	Pk	Horizontal
7440.3	44.47	7.10	36.53	44.60	43.50	54.00	-10.5	AV	Horizontal

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).

- (2) Emission Level= Antenna Factor + Cable Loss + Read Level Preamp Factor
- (3)All other emissions more than 20dB below the limit.



■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode 1/ Mode 2/ Mode 3	Test By:	Susan Su

All the modulation modes have been tested, and the worst result was report as below:

	Il the modulation modes have been tested, and the worst result was report as below:								
Frequenc	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
(1711 12)	(αΒμν)	(ub)	UD/III	` '	on-hopping	(ασμν/ιιι)	(ub)	Type	
0040.00	F7.00	0.07	07.00		<u> </u>	7.4	00.77	Pk	I lovizantal
2310.00	57.26	2.97	27.80	43.80	44.23	74	-29.77		Horizontal
2310.00	43.15	2.97	27.80	43.80	30.12	54	-23.88	AV	Horizontal
2310.00	58.09	2.97	27.80	43.80	45.06	74	-28.94	Pk	Vertical
2310.00	41.86	2.97	27.80	43.80	28.83	54	-25.17	AV	Vertical
2390.00	57.66	3.14	27.21	43.80	44.21	74	-29.79	Pk	Vertical
2390.00	41.82	3.14	27.21	43.80	28.37	54	-25.63	AV	Vertical
2390.00	56.19	3.14	27.21	43.80	42.74	74	-31.26	Pk	Horizontal
2390.00	41.82	3.14	27.21	43.80	28.37	54	-25.63	AV	Horizontal
2483.50	57.54	3.58	27.70	44.00	44.82	74	-29.18	Pk	Vertical
2483.50	42.16	3.58	27.70	44.00	29.44	54	-24.56	AV	Vertical
2483.50	58.64	3.58	27.70	44.00	45.92	74	-28.08	Pk	Horizontal
2483.50	41.69	3.58	27.70	44.00	28.97	54	-25.03	AV	Horizontal
				1Mbps -	hopping				
2310.00	58.64	2.97	27.80	43.80	45.61	74	-28.39	Pk	Horizontal
2310.00	43.94	2.97	27.80	43.80	30.91	54	-23.09	AV	Horizontal
2310.00	56.49	2.97	27.80	43.80	43.46	74	-30.54	Pk	Vertical
2310.00	42.87	2.97	27.80	43.80	29.84	54	-24.16	AV	Vertical
2390.00	57.46	3.14	27.21	43.80	44.01	74	-29.99	Pk	Vertical
2390.00	41.69	3.14	27.21	43.80	28.24	54	-25.76	AV	Vertical
2390.00	57.82	3.14	27.21	43.80	44.37	74	-29.63	Pk	Horizontal
2390.00	43.16	3.14	27.21	43.80	29.71	54	-24.29	AV	Horizontal
2483.50	58.13	3.58	27.70	44.00	45.41	74	-28.59	Pk	Vertical
2483.50	43.69	3.58	27.70	44.00	30.97	54	-23.03	AV	Vertical
2483.50	58.12	3.58	27.70	44.00	45.40	74	-28.6	Pk	Horizontal
2483.50	41.83	3.58	27.70	44.00	29.11	54	-24.89	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.



■ Spurious Emission in Restricted Bands 3260MMHz- 18000MHz

EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode 1/ Mode 2/ Mode 3	Test By:	Susan Su

All the modulation modes have been tested, the worst result was report as below:

Frequenc	Readin	Cable	Antenn	Preamp	Emission	Limits	Margin	Detect	
У	g Level	Loss	а	Factor	Level		<u> </u>	or	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµ V/m)	(dBµ V/m)	(dB)	Type	Comment
3260	60.04	4.04	29.57	44.70	48.95	74	-25.05	Pk	Vertical
3260	55.73	4.04	29.57	44.70	44.64	54	-9.36	AV	Vertical
3260	61.08	4.04	29.57	44.70	49.99	74	-24.01	Pk	Horizontal
3260	56.54	4.04	29.57	44.70	45.45	54	-8.55	AV	Horizontal
3332	64.18	4.26	29.87	44.40	53.91	74	-20.09	Pk	Vertical
3332	53.08	4.26	29.87	44.40	42.81	54	-11.19	AV	Vertical
3332	62.11	4.26	29.87	44.40	51.84	74	-22.16	Pk	Horizontal
3332	52.18	4.26	29.87	44.40	41.91	54	-12.09	AV	Horizontal
17797	42.87	10.99	43.95	43.50	54.31	74	-19.69	Pk	Vertical
17797	32.06	10.99	43.95	43.50	43.50	54	-10.50	AV	Vertical
17788	43.75	11.81	43.69	44.60	54.65	74	-19.35	Pk	Horizontal
17788	31.05	11.81	43.69	44.60	41.95	54	-12.05	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.



7.3 NUMBER OF HOPPING CHANNEL

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) (iii)and DA 00-705

7.3.2 Conformance Limit

Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.3

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW ≥ 1% of the span

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

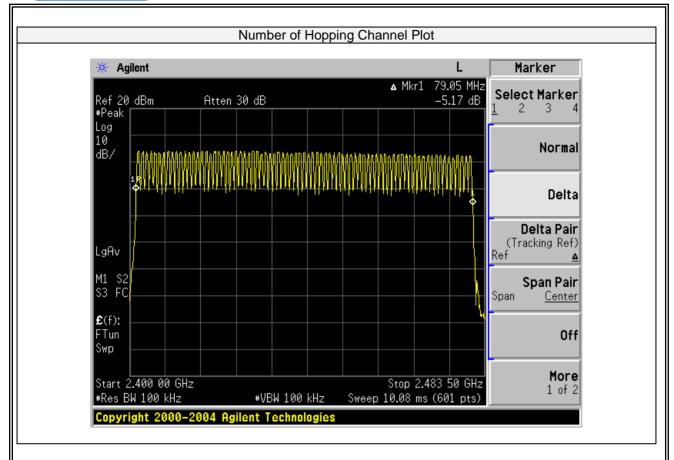
Trace = max hold

7.3.6 Test Results

EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

Number of Hopping (Channel)	Adaptive Frequency hopping (Channel)	limit	Verdict	
79	20	≥15	Pass	





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7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

According to FCC Part 15.247(a)(1) and DA 00-705

7.4.2 Conformance Limit

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

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7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.2

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Measurement Bandwidth or Channel Separation

 $RBW \geq 30KHz$

VBW ≥ 3*RBW

Sweep = auto

Detector function = peak

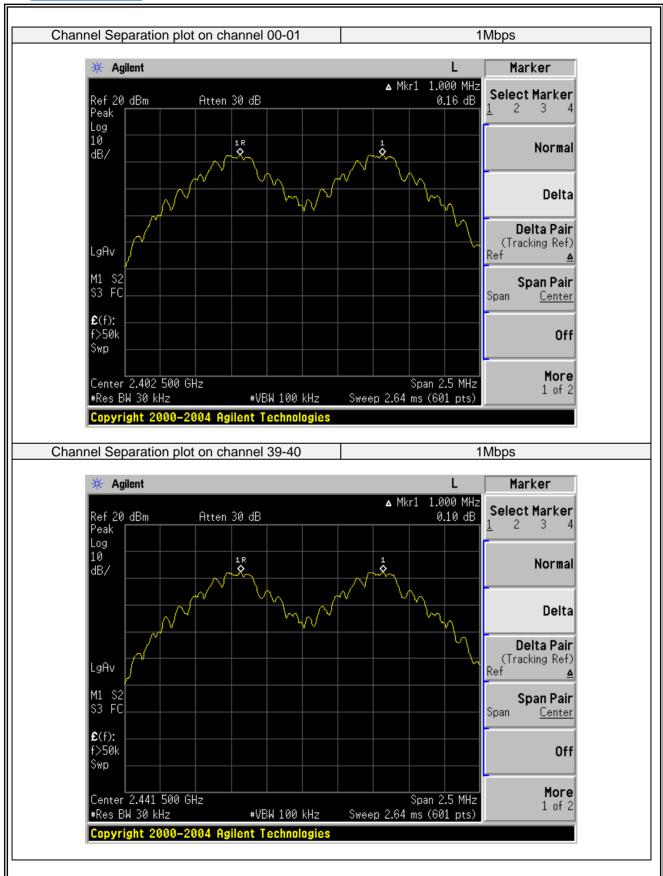
Trace = max hold

7.4.6 Test Results

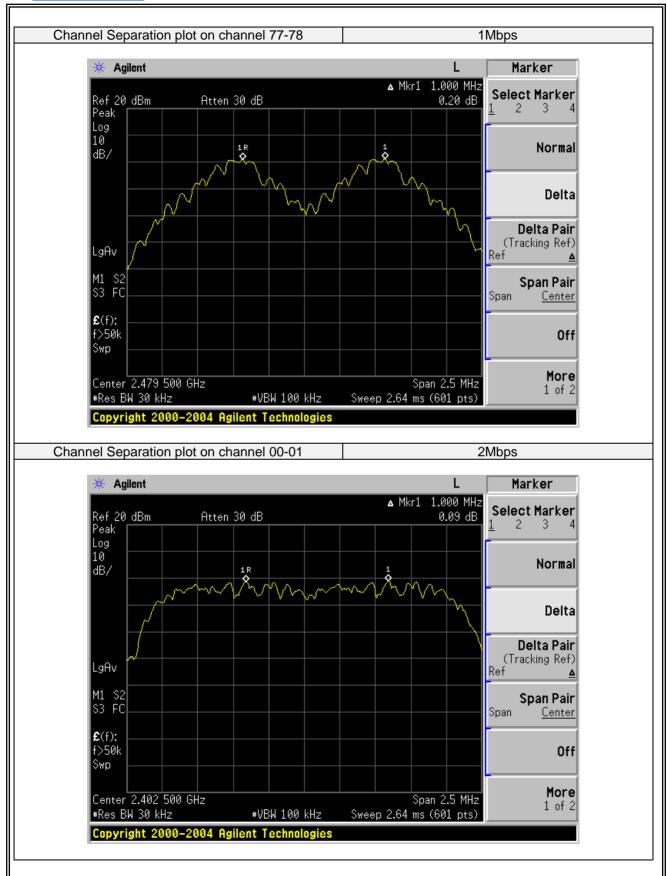
EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

Modulation	Channel	Channel	Measurement	Limit		
Mode	Number	Frequency	Bandwidth	(kHz)		Verdict
		(MHz)	(kHz)			
	0	2402	1000.00	>694.667	2/3 of 20dB BW	PASS
GFSK	39	2441	1000.00	>695.333	2/3 of 20dB BW	PASS
	78	2480	1000.00	>694.667	2/3 of 20dB BW	PASS
π/4-DQPSK	0	2402	1000.00	>914.667	2/3 of 20dB BW	PASS
	39	2441	1000.00	>912.667	2/3 of 20dB BW	PASS
	78	2480	1000.00	>913.333	2/3 of 20dB BW	PASS
8DPSK	0	2402	1000.00	>874.667	2/3 of 20dB BW	PASS
	39	2441	1000.00	>873.333	2/3 of 20dB BW	PASS
	78	2480	1000.00	>872.000	2/3 of 20dB BW	PASS

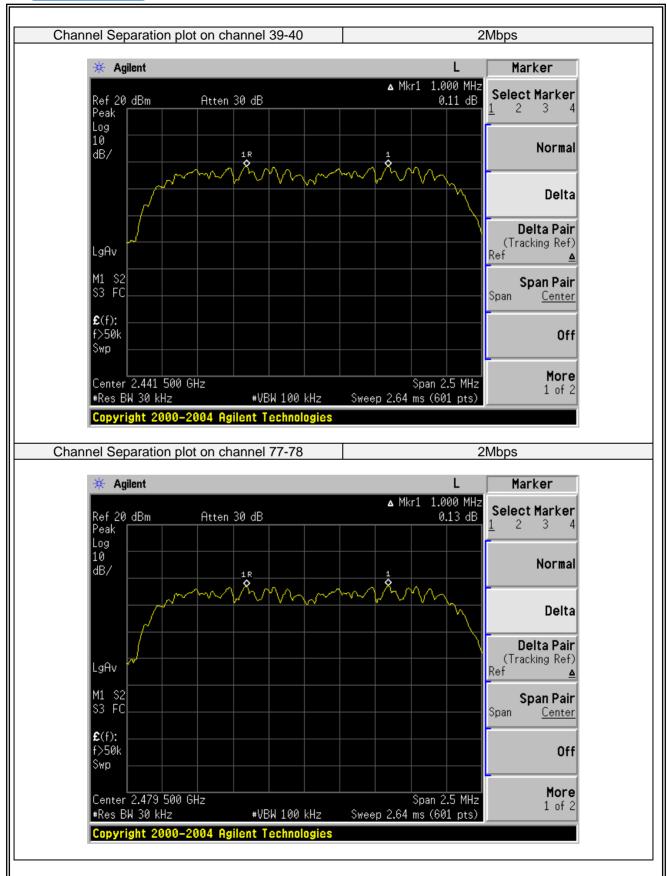








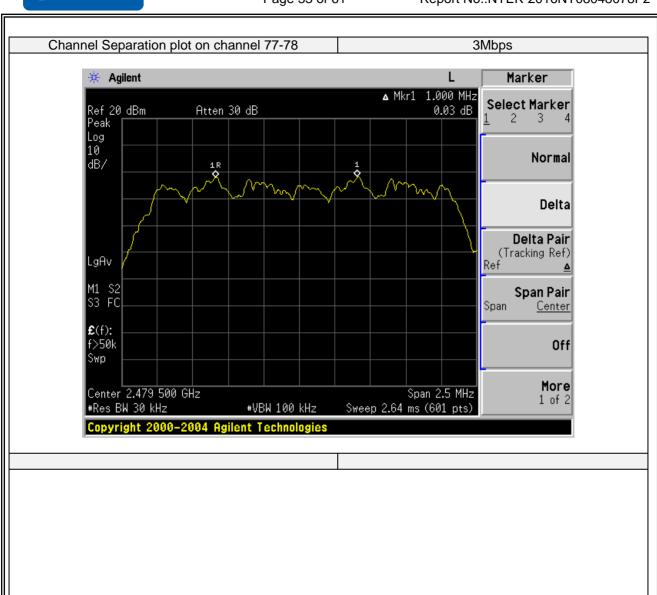














7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 Applicable Standard

According to FCC Part 15.247(a)(1)(iii) and DA 00-705

7.5.2 Conformance Limit

The average time of occupancy on any channel shall not be greater than 0.4s within a period of 0.4s multiplied by the number of hopping channels employed.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.4

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = zero span, centered on a hopping channel

 $RBW \ge 1MHz$

 $VBW \geq RBW$

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

Measure the maximum time duration of one single pulse.

Set the EUT for DH5, DH3 and DH1 packet transmitting.

Measure the maximum time duration of one single pulse.



7.5.6 Test Results

EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

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Modulation Mode	Channel Number	Packet type	Mode	Hops Over Occupancy Time (ms)	Pulse width (ms)	dwell time (ms)	Limit (ms)	Verdict
GFSK	39	DH1	Normal	320.00	0.438	140.160	<400	PASS
	39		AFH	160.00	0.438	70.080	<400	PASS
	39	DH3	Normal	160.00	1.710	273.600	<400	PASS
	39		AFH	80.00	1.710	136.800	<400	PASS
	39	DH5	Normal	106.67	2.940	313.610	<400	PASS
	39	כרום	AFH	53.33	2.940	156.790	<400	PASS
π/4-DQPSK	39	2DH1	Normal	320.00	0.466	149.120	<400	PASS
	39		AFH	160.00	0.466	74.560	<400	PASS
	39	2DH3	Normal	160.00	1.696	271.360	<400	PASS
	39		AFH	80.00	1.696	135.680	<400	PASS
	39	2DH5	Normal	106.67	2.940	313.610	<400	PASS
	39		AFH	53.33	2.940	156.790	<400	PASS
8DPSK	39	3DH1	Normal	320.00	0.452	144.640	<400	PASS
	39		AFH	160.00	0.452	72.320	<400	PASS
	39	3DH3	Normal	160.00	1.696	271.360	<400	PASS
	39		AFH	80.00	1.696	135.680	<400	PASS
	39	3DH5	Normal	106.67	2.954	315.103	<400	PASS
	39		AFH	53.33	2.954	157.537	<400	PASS

Note:

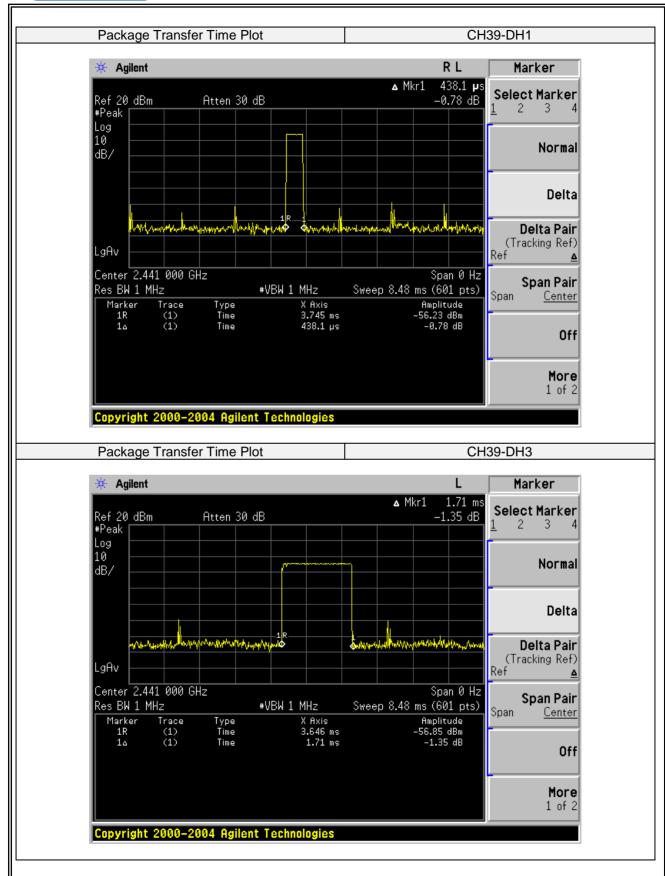
A Period Time = (channel number)*0.4

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)

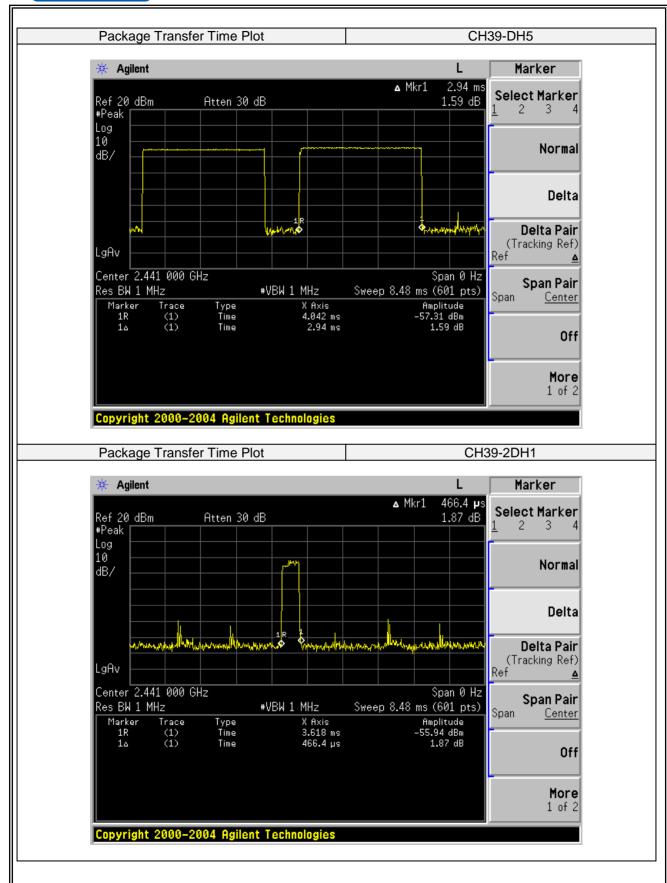
For Example:

- 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops.
- 2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4×20) (s), Hops Over Occupancy Time comes to $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$ hops.
- 3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time



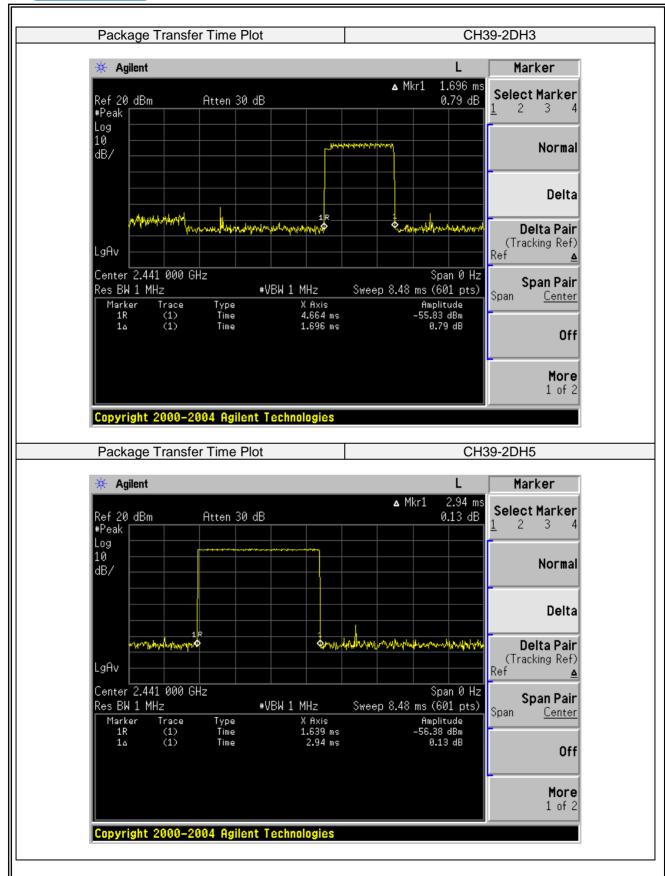




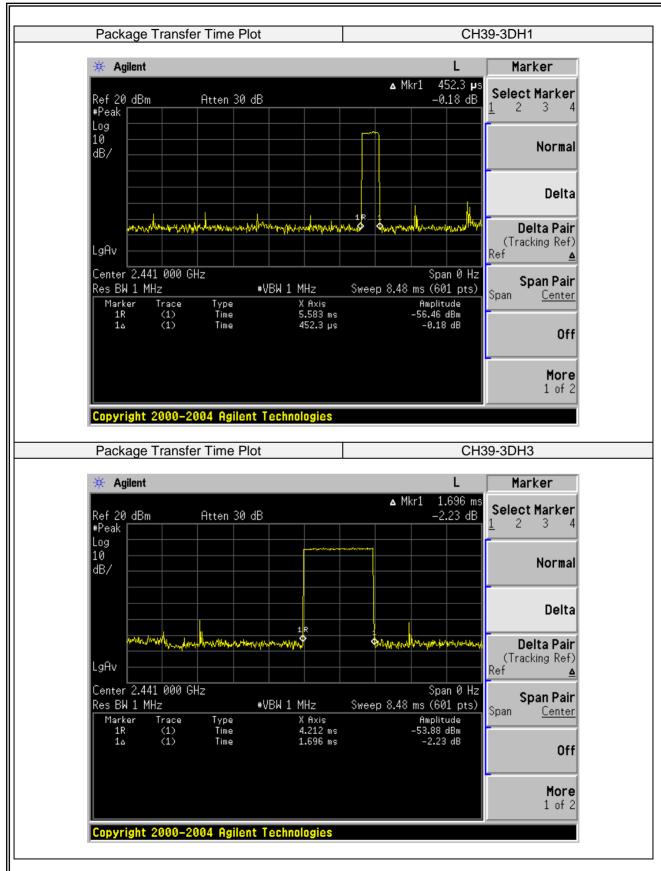


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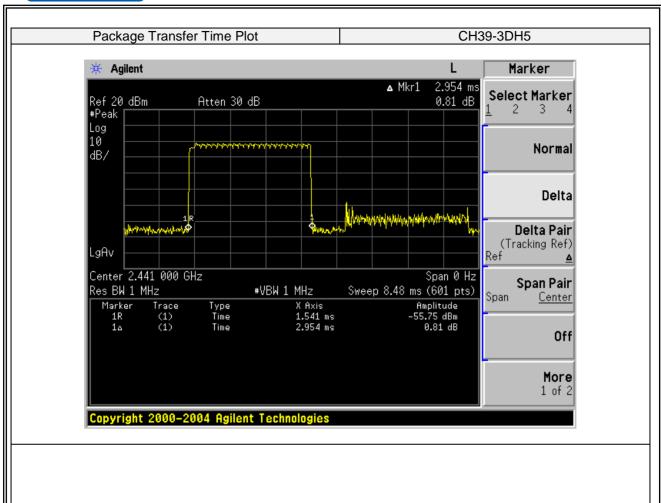














7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

According to FCC Part 15.247(a)(1) and DA 00-705

7.6.2 Conformance Limit

No limit requirement.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 6.9.2

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW ≥ 1% of the 20 dB bandwidth

VBW ≥ RBW Sweep = auto

Detector function = peak

Trace = max hold

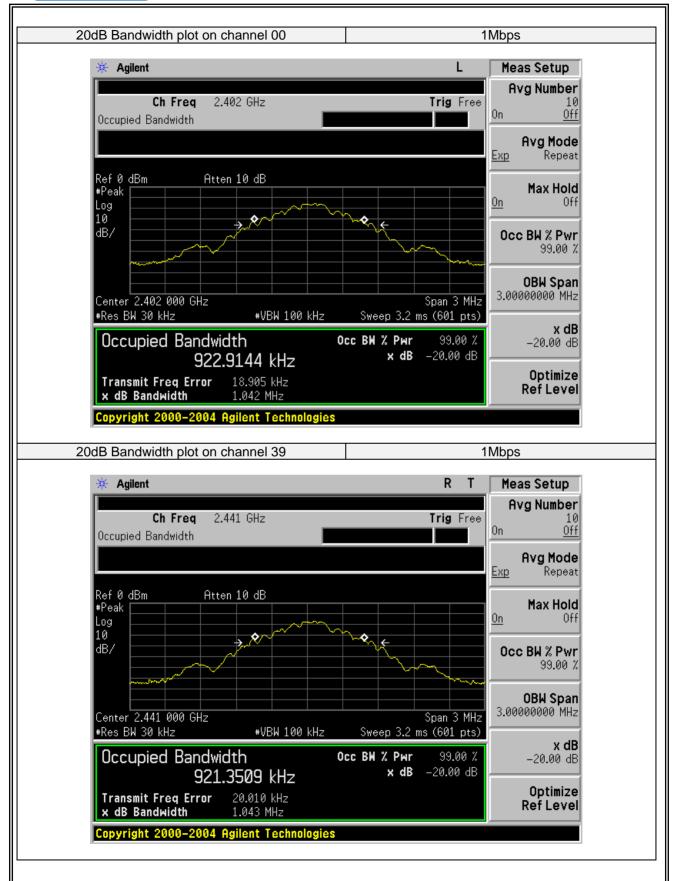
7.6.6 Test Results

EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

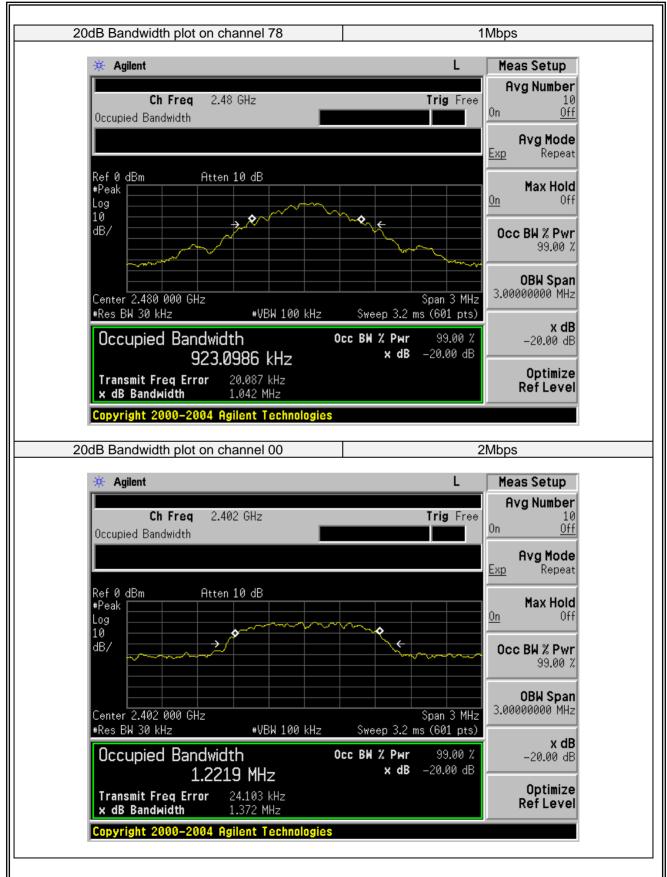
Test Channel	Frequency (MHz)	Measurement Bandwidth (KHz)	Limit (kHz)	Verdict
		1Mbps		
00	2402	1042.000	N/A	PASS
39	2441	1043.000	N/A	PASS
78	2480	1042.000	N/A	PASS
2Mbps				
00	2402	1372.000	N/A	PASS
39	2441	1369.000	N/A	PASS
78	2480	1370.000	N/A	PASS
3Mbps				
00	2402	1312.000	N/A	PASS
39	2441	1310.000	N/A	PASS
78	2480	1308.000	N/A	PASS

Note: N/A (Not Applicable)

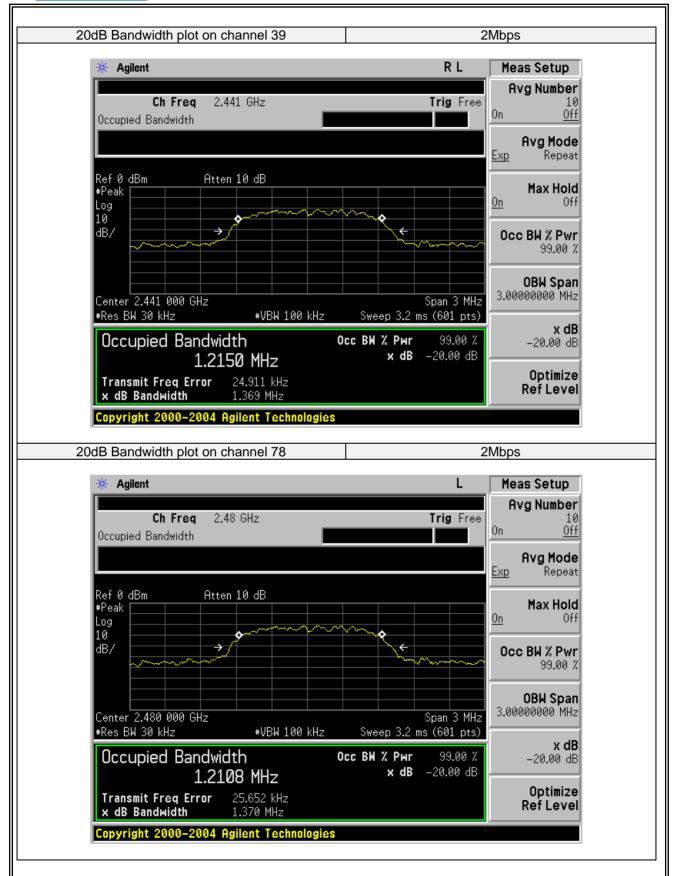




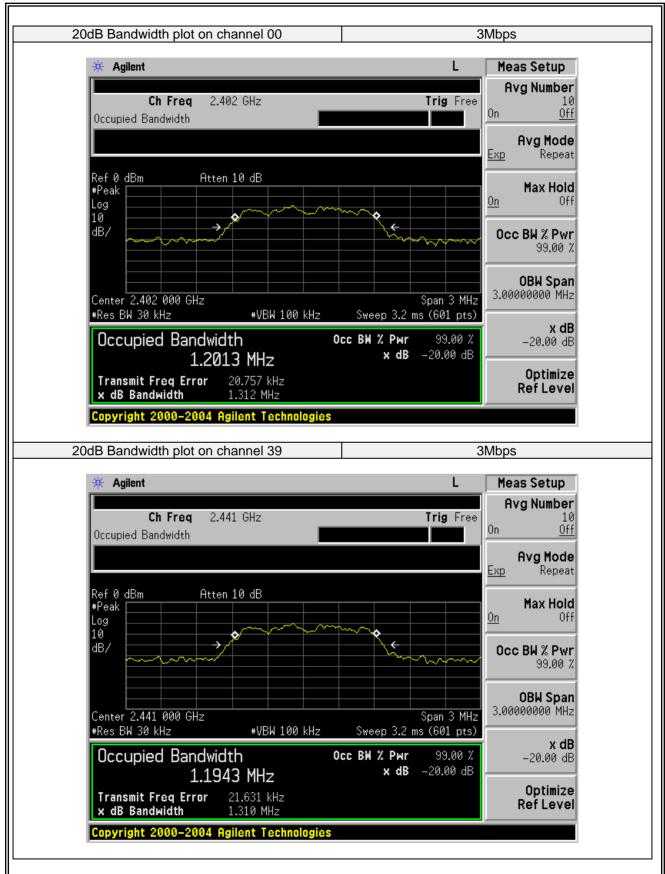




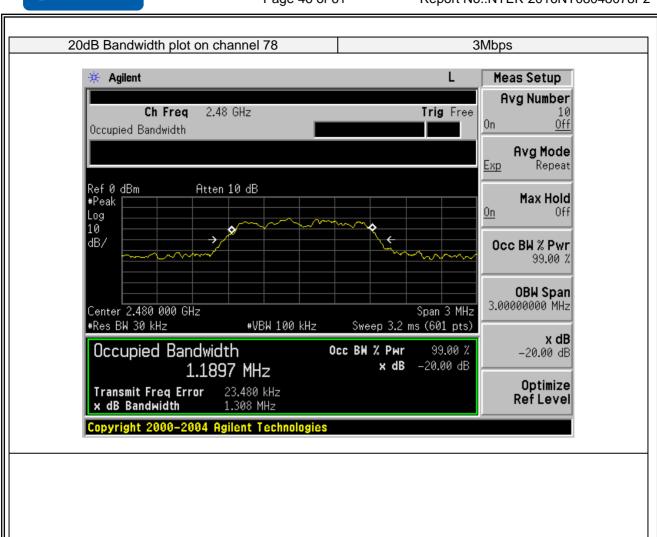














7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

According to FCC Part 15.247(b)(1) and DA 00-705

7.7.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.5.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

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

RBW ≥ the 20 dB bandwidth of the emission being measured

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

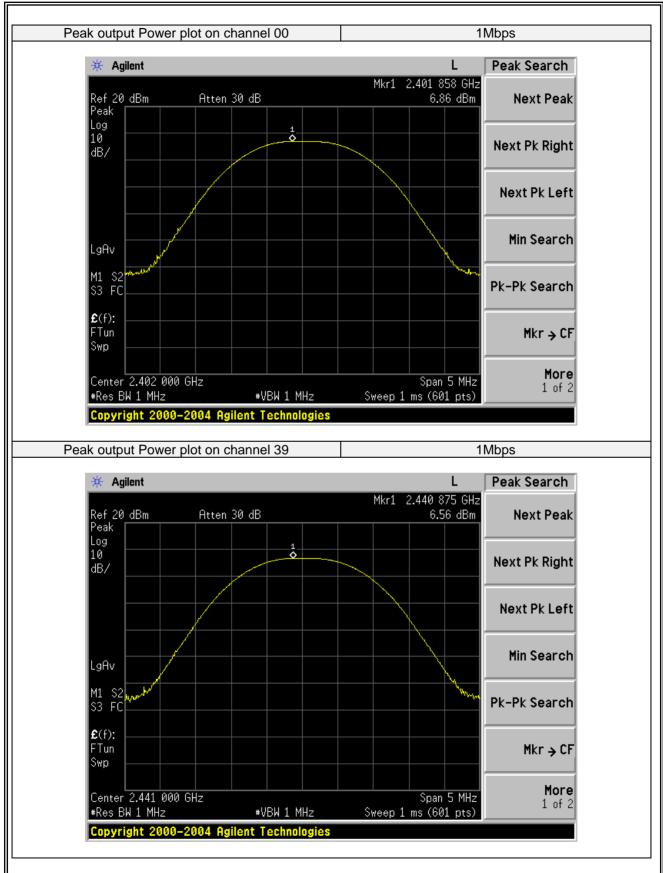
Trace = max hold

7.7.6 Test Results

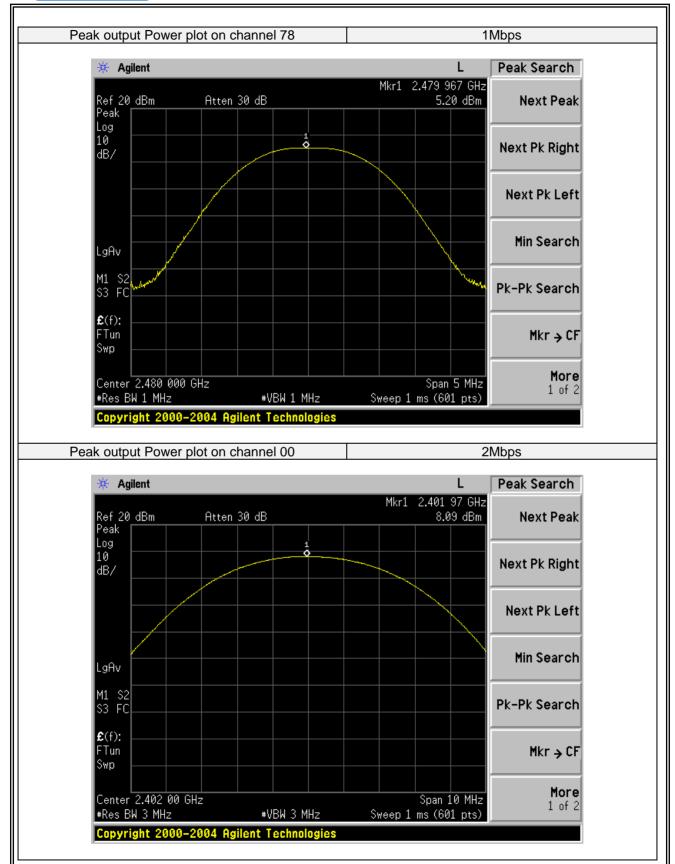
EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

Test Channel	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	LIMIT (dBm)	Verdict
			1Mbps		
00	2402	Default	6.86	20.97	PASS
39	2441	Default	6.56	20.97	PASS
78	2480	Default	5.20	20.97	PASS
	2Mbps				
00	2402	Default	8.09	20.97	PASS
39	2441	Default	7.61	20.97	PASS
78	2480	Default	7.51	20.97	PASS
	3Mbps				
00	2402	Default	8.18	20.97	PASS
39	2441	Default	7.76	20.97	PASS
78	2480	Default	6.71	20.97	PASS

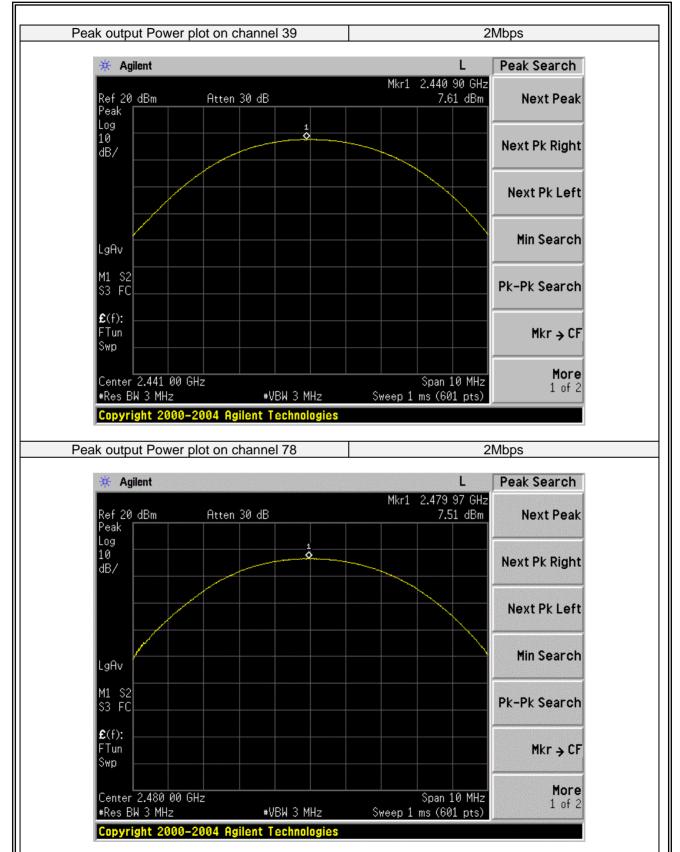




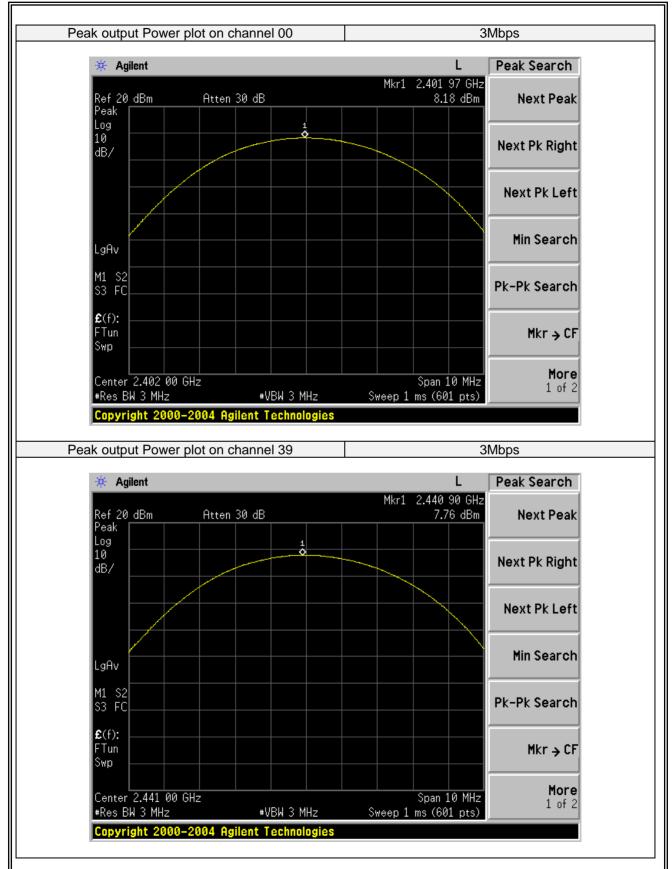




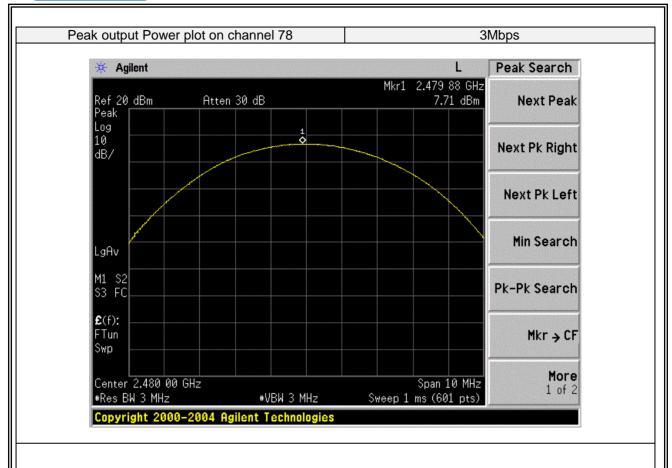














7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

According to FCC Part 15.247(d) and DA 00-705

7.8.2 Conformance Limit

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)).

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.6.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

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

RBW = 100KHz

VBW = 300KHz

Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.

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.

Repeat above procedures until all measured frequencies were complete.

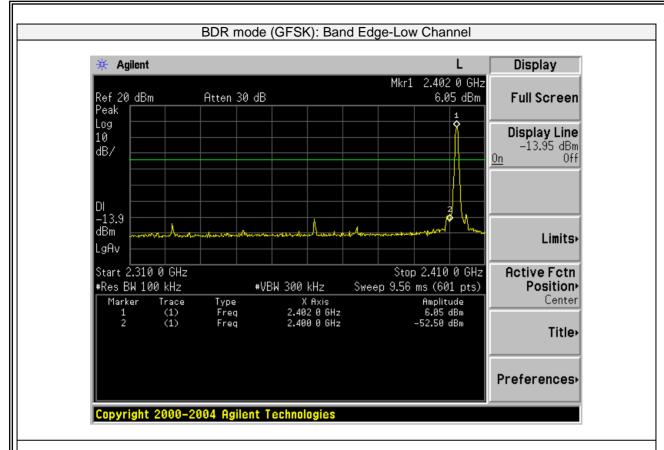


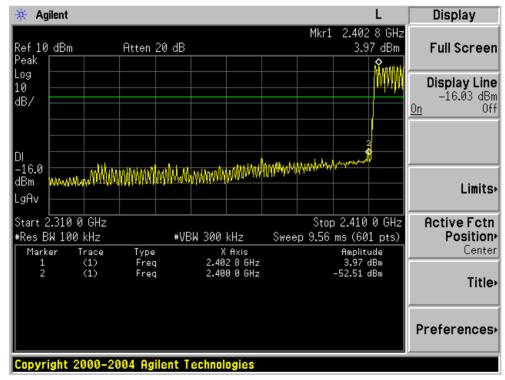
7.8.6 Test Results

EUT:	SupraPad Tablet PC	Model No.:	769TPC
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode3	Test By:	Susan Su

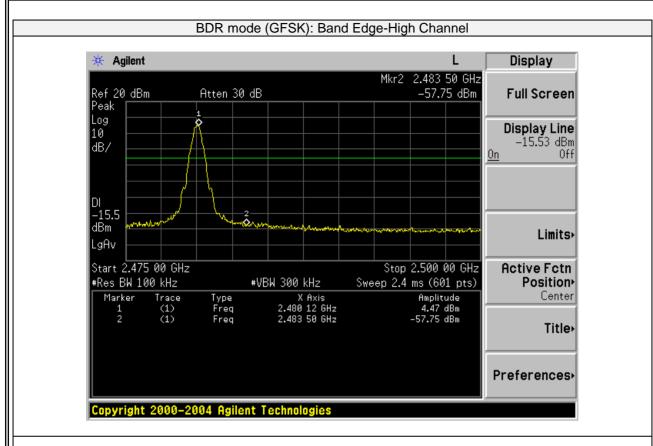
Note: Hopping enabled and disabled have evaluated, and the wortest data was reported

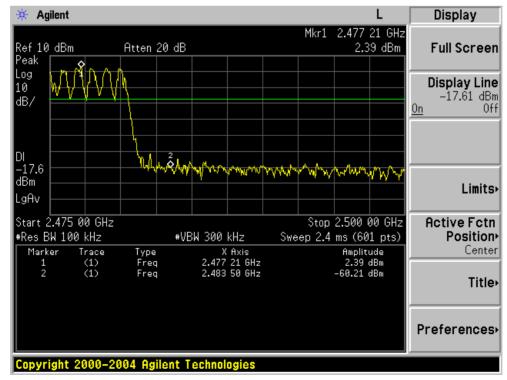




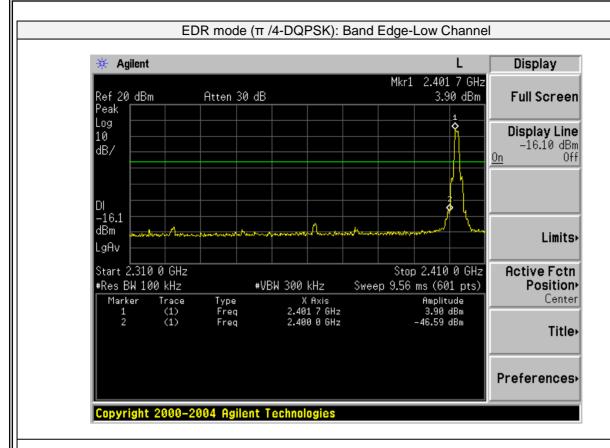


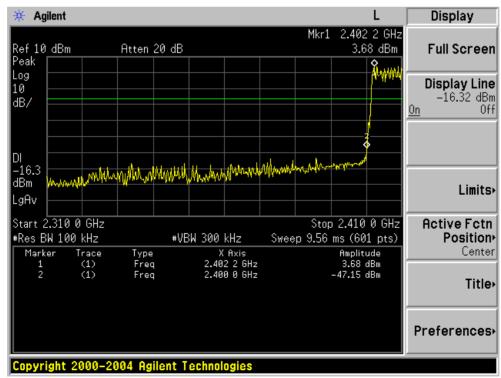




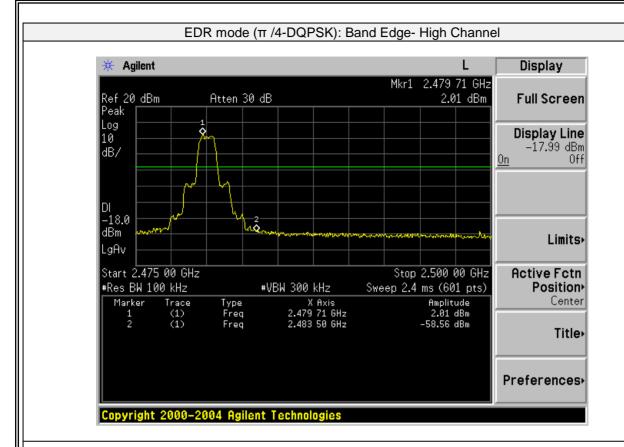


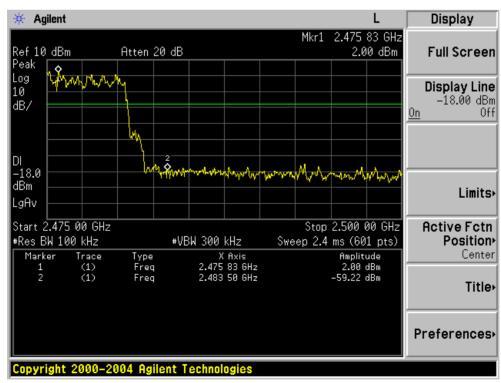




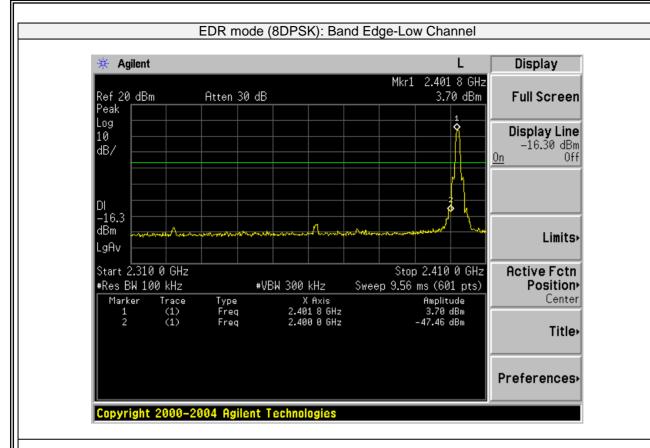


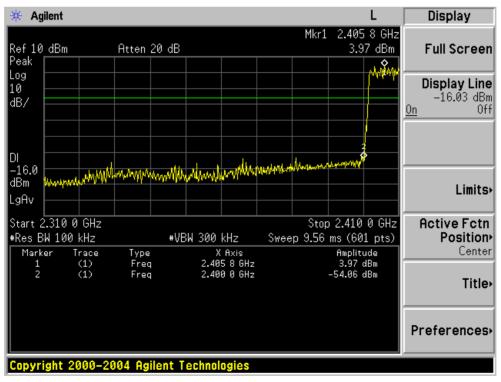




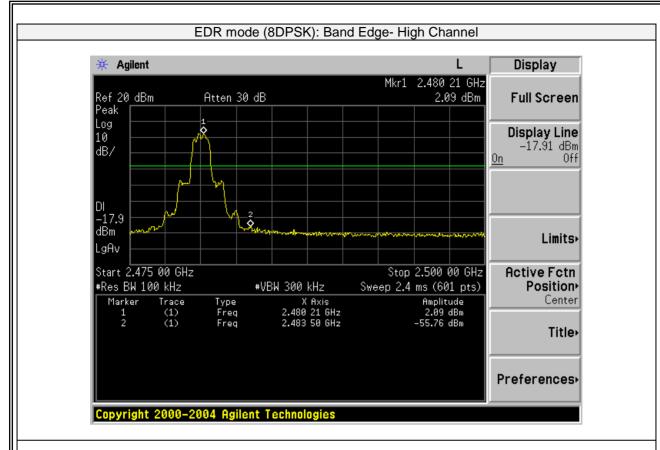


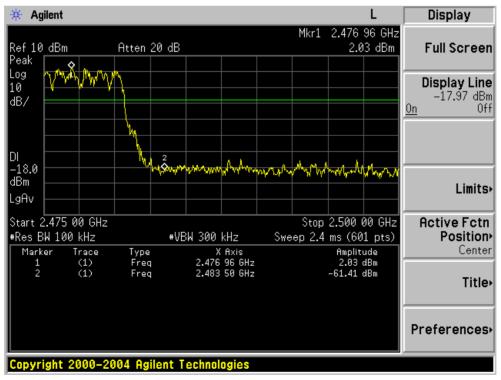














7.9 ANTENNA APPLICATION

7.9.1 Antenna 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 partyshall be used with the device.

7.9.2 **Result**

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

END OF REPORT