



FCC RADIO TEST REPORT-WIFI

FCC ID:O86T8500

Product : 8 Inch Full Ruggedized Tablet

Trade Name : N/A

Model Name : xTablet T8500

Serial Model : N/A

Report No. : NTEK-2015NT1211611F4

Prepared for

MobileDemand, LC.

1501 Boyson Square Drive Suite 101 Hiawatha, Iowa52233, United States.

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name MobileDemand, LC.

Address..... 1501 Boyson Square Drive Suite 101 Hiawatha, Iowa52233, United States.

Manufacture's Name... Emdoor Information Co.,Ltd.

Address..... 3A 1/F Jinfulai Tower,No.49-1,Dabao Road,Baoan 28 District,Shenzhen, China.

Product description

Product name..... 8 Inch Full Ruggedized Tablet

Model and/or type xTablet T8500
reference

Serial Model N/A

Standards FCC Part15.247 01 Oct. 2015

Test procedure ANSI C63.10-2013 and KDB 558074 D01 DTS Meas Guidance v03r04

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.

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Date of Test

Date (s) of performance of tests..... 11 Dec. 2015 ~14 Jan. 2016

Date of Issue 14 Jan. 2016

Test Result..... **Pass**

Testing Engineer :

Susan

(Susan Su)

Technical Manager :

Brown Lu

(Brown Lu)

Authorized Signatory :

Sam. Chen

(Sam Chen)

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

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

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

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

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

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	8 Inch Full Ruggedized Tablet	
Trade Name	N/A	
Model Name	xTablet T8500	
Serial Model	N/A	
Model Difference	N/A	
Product Description	Operation Frequency:	802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz
	Modulation Type:	IEEE 802.11b : DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20/HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz/40MHz):150/144.44/130/117/115.56/104/86.67/78/52/6.5Mbps
	Number Of Channel	802.11b/g/n20MHz:11CH 802.11n40MHz:7CH
	Antenna Designation:	Please see Note 3.
	Antenna Gain (dBi)	1.0 dBi
Channel List	Please refer to the Note 2.	
Ratings	DC 3.7V	
Adapter	Model:AW018WR-0500300UH Input: AC100-240V~, 50/60Hz,0.5A Output: 5V---, 3A	
Battery	DC 3.7V,8500mAh	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

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

2.

Channel List for 802.11b/g/n(20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

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

3.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	PCB Antenna	N/A	1.0	Wifi 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	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20 CH1/ CH6/ CH11
Mode 4	802.11n40 CH3/ CH6/ CH9
Mode 5	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20 CH1/ CH6/ CH11
Mode 4	802.11n40 CH3/ CH6/ CH9
Mode 5	Link Mode

Note:

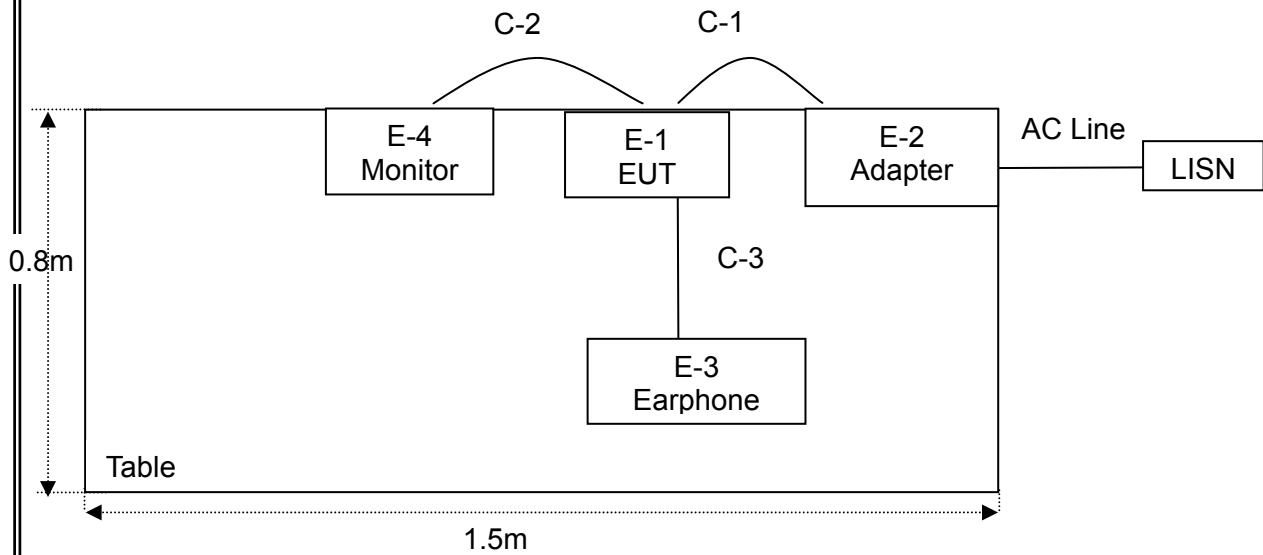
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) EUT configured to transmit continuously:
- (3) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

Mode	Data Rate
IEEE 802.11b	1 Mbps
IEEE 802.11g	6 Mbps
IEEE 802.11n20	MCS 7
IEEE 802.11n40	MCS 7

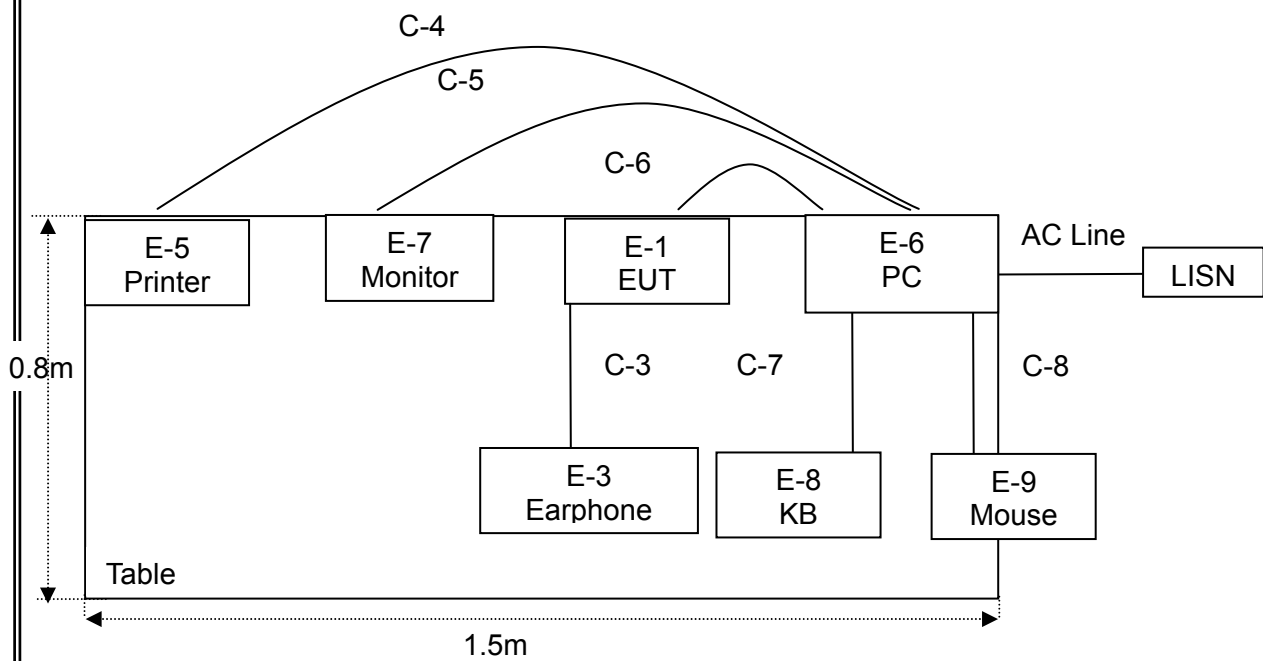
Operated Mode for Worst Duty Cycle	
Test Signal Duty Cycle (x)	Average correction factor (dB)
100% - IEEE 802.11b	0
100% - IEEE 802.11g	0
100% - IEEE 802.11n (HT20)	0
100% - IEEE 802.11n (HT40)	0

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test 1



Conducted Emission Test 2



Radiated Spurious Emission Test

E-1 EUT

2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	8 Inch Full Ruggedized Tablet	N/A	xTablet T8500	N/A	EUT
E-2	ADAPTER	N/A	AW018WR-0500300UH	N/A	
E-3	Earphone	N/A	2688	N/A	
E-4	Monitor	SONY	KDL-24EX520	N/A	
E-5	Printer	Canon	L11121E	LBP2900	
E-6	Personal computer	DELL	FT4Y23X	34413561645	
E-7	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67es	
E-8	Keyboard	DELL	SK-8185	OY526KUS	
E-9	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7	

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	Power line	NO	YES	1.2m	
C-2	HDMI	NO	NO	1.0m	
C-3	Earphone	NO	NO	1.0m	
C-4	USB Cable	NO	NO	1.0m	
C-5	HDMI	NO	NO	1.0m	
C-6	USB Cable	NO	NO	1.0m	
C-7	USB Cable	NO	NO	1.0m	
C-8	USB Cable	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 『Length』 column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.06	2016.06.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.06.06	2016.06.05	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.06	2016.06.05	1 year
6	Horn Antenna	EM	EM-AH-10180	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	2015.12.22	2016.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.06	2016.06.05	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

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	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	6200264417	2015.06.06	2016.06.05	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.06	2016.06.05	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.06	2016.06.05	1 year

1	Attenuation	MCE	24-10-34	BN9258	2015.07.06	2016.07.05	1 year
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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
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

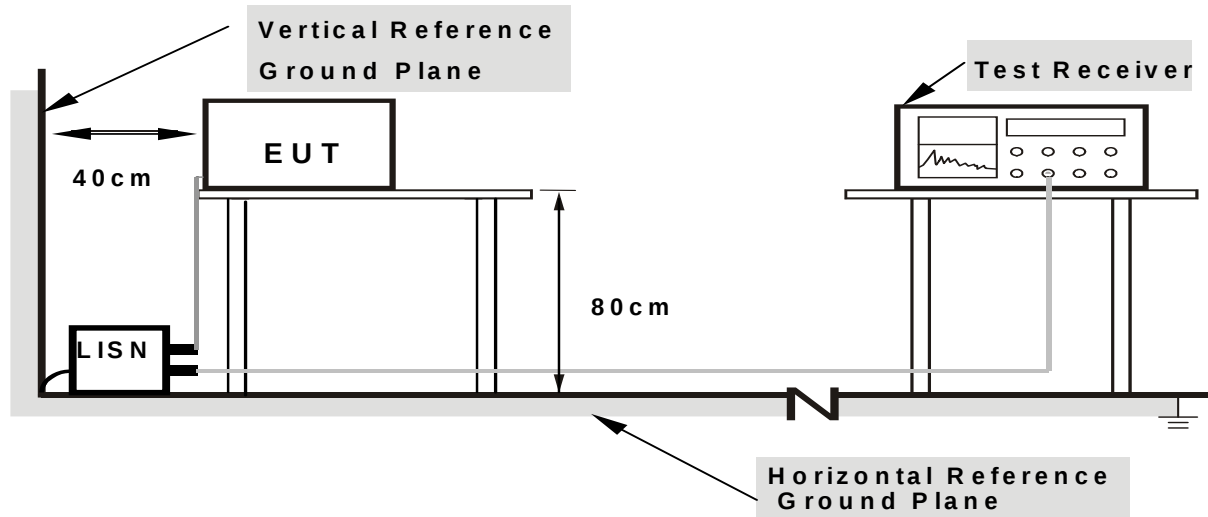
3.1.2 TEST PROCEDURE

- 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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.

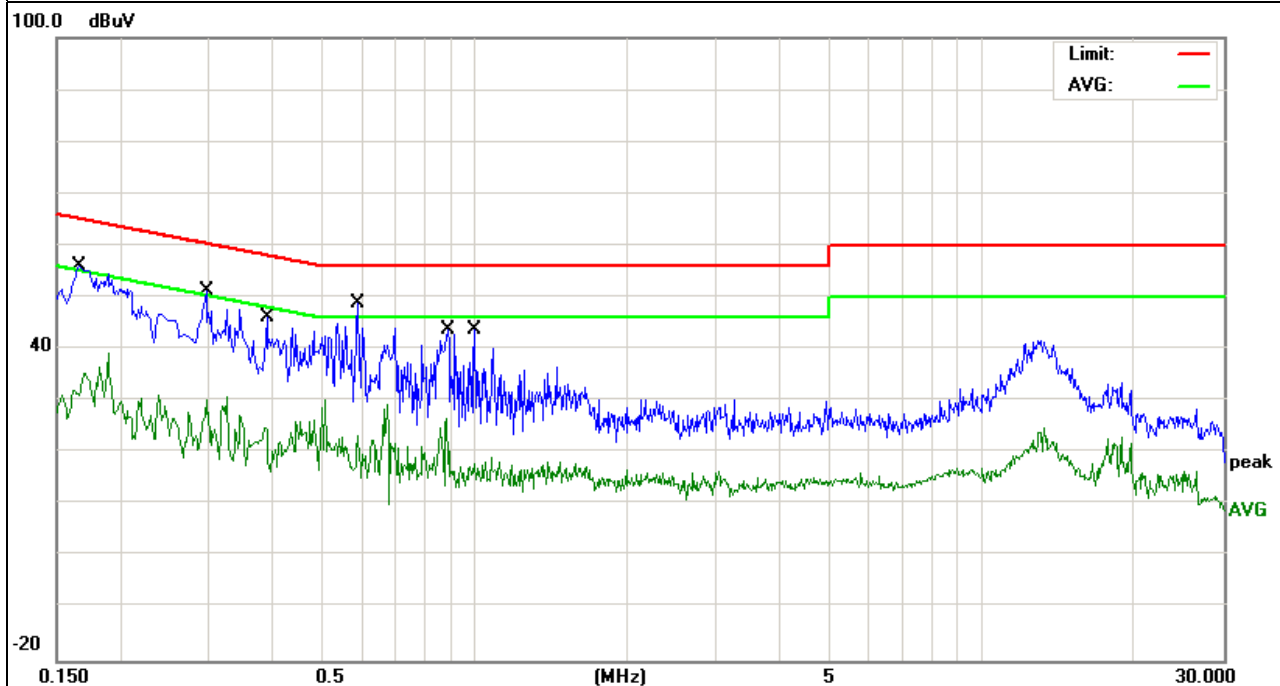
3.1.6 TEST RESULTS

EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V form Adapter AC 120V/60Hz	Test Mode :	Mode 5

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1660	46.02	10.12	56.14	65.15	-9.01	QP
0.1660	21.27	10.12	31.39	55.15	-23.76	AVG
0.2953	41.14	10.14	51.28	60.37	-9.09	QP
0.2953	20.26	10.14	30.40	50.37	-19.97	AVG
0.3899	36.12	10.05	46.17	58.06	-11.89	QP
0.3899	14.70	10.05	24.75	48.06	-23.31	AVG
0.5897	39.20	9.79	48.99	56.00	-7.01	QP
0.5897	13.51	9.79	23.30	46.00	-22.70	AVG
0.8860	33.85	9.82	43.67	56.00	-12.33	QP
0.8860	16.98	9.82	26.80	46.00	-19.20	AVG
1.0020	33.81	9.85	43.66	56.00	-12.34	QP
1.0020	7.98	9.85	17.83	46.00	-28.17	AVG

Remark:

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

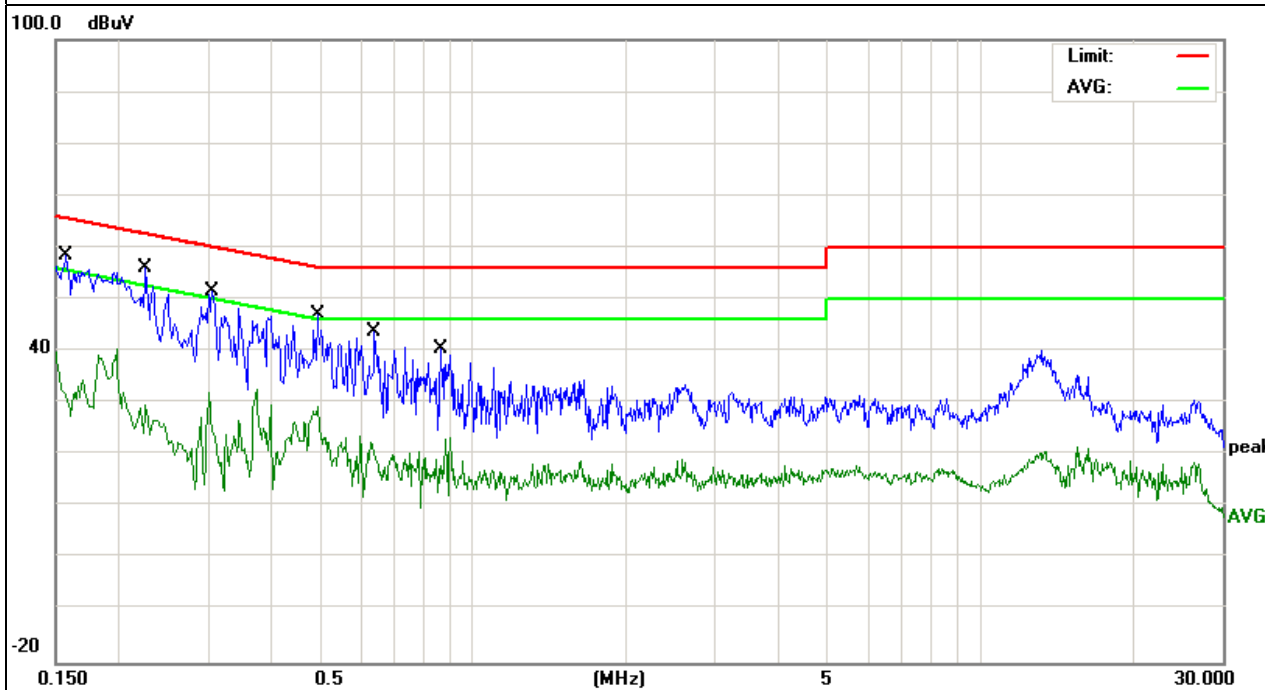


EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V form Adapter AC 120V/60Hz	Test Mode :	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1580	48.53	10.07	58.60	65.56	-6.96	QP
0.1580	21.08	10.07	31.15	55.56	-24.41	AVG
0.2260	46.11	10.05	56.16	62.59	-6.43	QP
0.2260	19.62	10.05	29.67	52.59	-22.92	AVG
0.3059	41.32	10.13	51.45	60.08	-8.63	QP
0.3059	17.30	10.13	27.43	50.08	-22.65	AVG
0.4939	37.35	9.83	47.18	56.10	-8.92	QP
0.4939	19.43	9.83	29.26	46.10	-16.84	AVG
0.6380	33.94	9.81	43.75	56.00	-12.25	QP
0.6380	12.66	9.81	22.47	46.00	-23.53	AVG
0.8618	30.46	9.84	40.30	56.00	-15.70	QP
0.8618	9.25	9.84	19.09	46.00	-26.91	AVG

Remark:

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

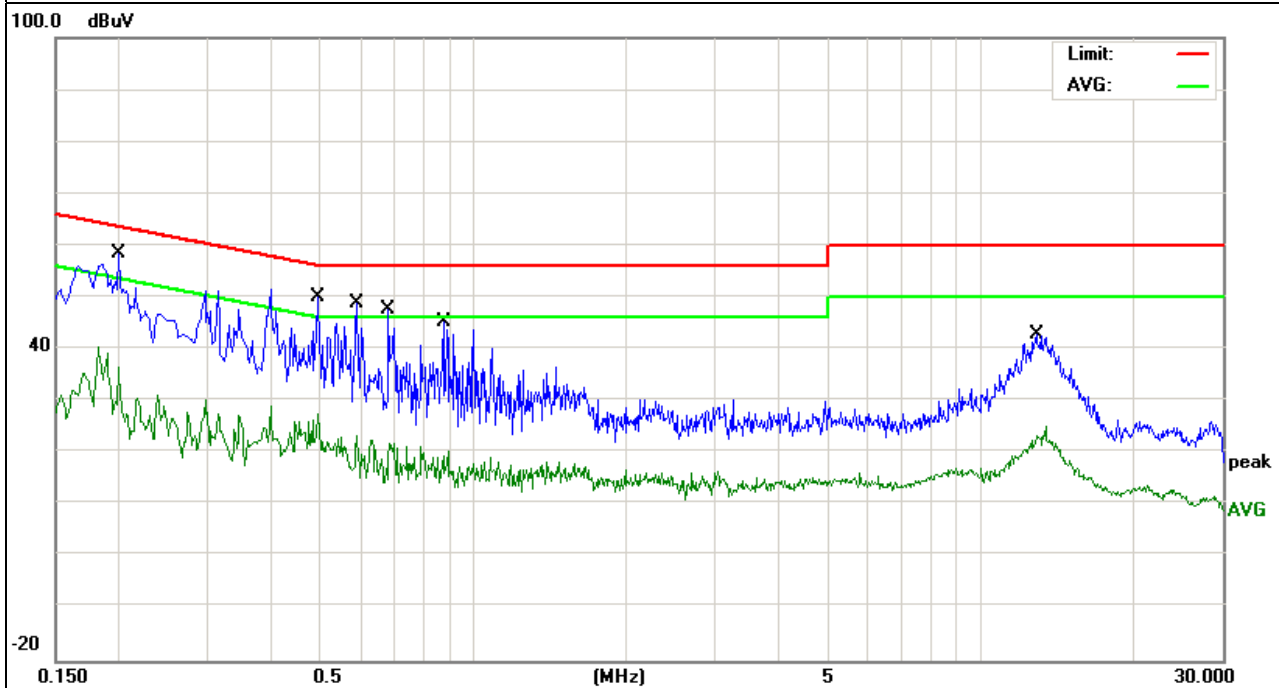


EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V form Adapter AC 240V/60Hz	Test Mode :	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1995	48.23	10.13	58.36	63.63	-5.27	QP
0.1995	26.39	10.13	36.52	53.63	-17.11	AVG
0.4939	40.30	9.81	50.11	56.10	-5.99	QP
0.4939	17.67	9.81	27.48	46.10	-18.62	AVG
0.5897	39.20	9.79	48.99	56.00	-7.01	QP
0.5897	13.51	9.79	23.30	46.00	-22.70	AVG
0.6820	37.88	9.78	47.66	56.00	-8.34	QP
0.6820	11.99	9.78	21.77	46.00	-24.23	AVG
0.8739	35.56	9.82	45.38	56.00	-10.62	QP
0.8739	9.57	9.82	19.39	46.00	-26.61	AVG
12.9098	32.96	9.83	42.79	60.00	-17.21	QP
12.9098	13.60	9.83	23.43	50.00	-26.57	AVG

Remark:

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

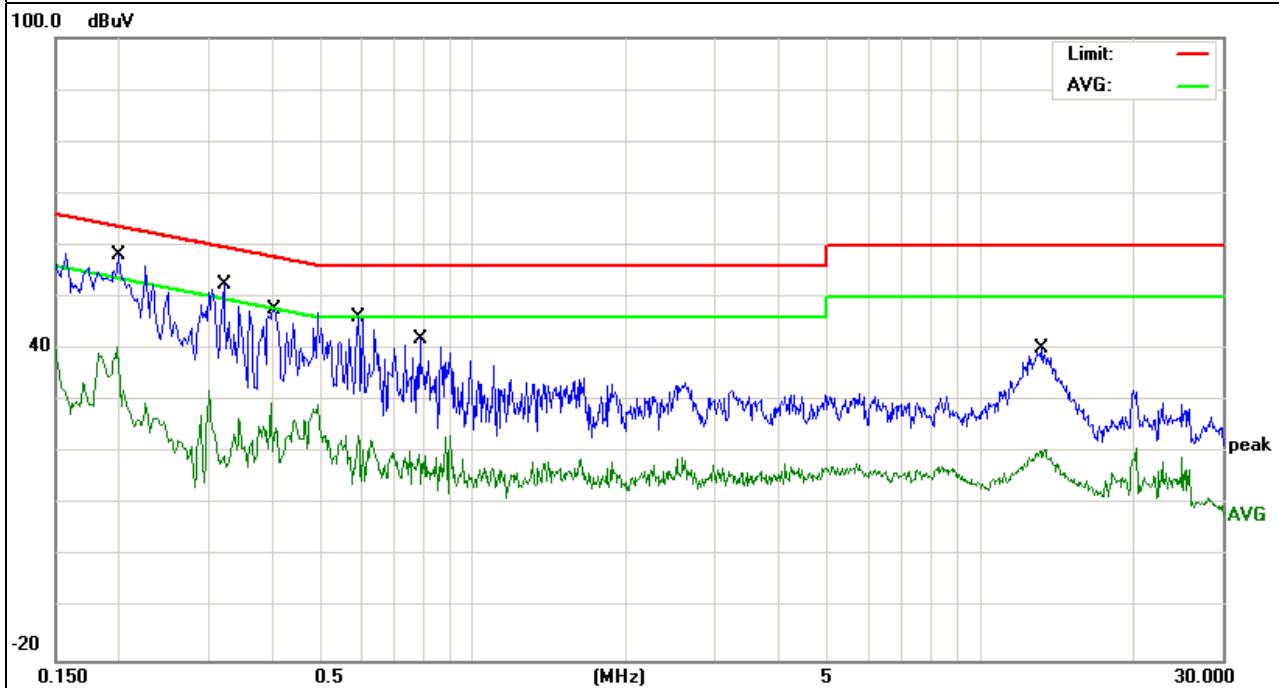


EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V form Adapter AC 240V/60Hz	Test Mode :	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1995	48.08	10.02	58.10	63.63	-5.53	QP
0.1995	30.35	10.02	40.37	53.63	-13.26	AVG
0.3220	42.43	10.11	52.54	59.65	-7.11	QP
0.3220	7.48	10.11	17.59	49.65	-32.06	AVG
0.4060	37.47	10.04	47.51	57.73	-10.22	QP
0.4060	16.05	10.04	26.09	47.73	-21.64	AVG
0.5936	36.36	9.82	46.18	56.00	-9.82	QP
0.5936	13.61	9.82	23.43	46.00	-22.57	AVG
0.7860	32.22	9.83	42.05	56.00	-13.95	QP
0.7860	9.86	9.83	19.69	46.00	-26.31	AVG
13.2576	30.34	9.79	40.13	60.00	-19.87	QP
13.2576	10.78	9.79	20.57	50.00	-29.43	AVG

Remark:

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

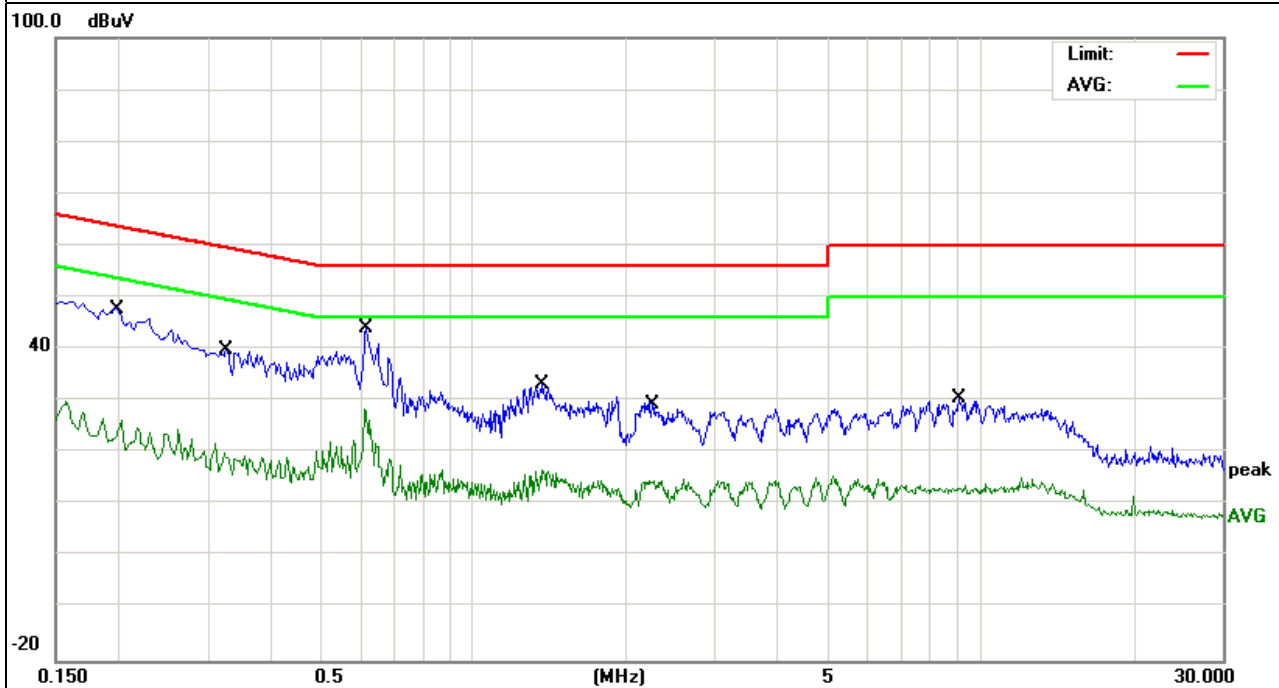


EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V form PC AC 120V/60Hz	Test Mode :	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2008	37.40	9.46	46.86	63.57	-16.71	QP
0.2008	17.26	9.46	26.72	53.57	-26.85	AVG
0.3260	30.53	9.44	39.97	59.55	-19.58	QP
0.3260	10.57	9.44	20.01	49.55	-29.54	AVG
0.6140	34.49	9.44	43.93	56.00	-12.07	QP
0.6140	19.16	9.44	28.60	46.00	-17.40	AVG
1.3700	23.92	9.45	33.37	56.00	-22.63	QP
1.3700	6.97	9.45	16.42	46.00	-29.58	AVG
2.2580	19.78	9.46	29.24	56.00	-26.76	QP
2.2580	5.10	9.46	14.56	46.00	-31.44	AVG
9.0900	20.97	9.63	30.60	60.00	-29.40	QP
9.0900	4.06	9.63	13.69	50.00	-36.31	AVG

Remark:

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

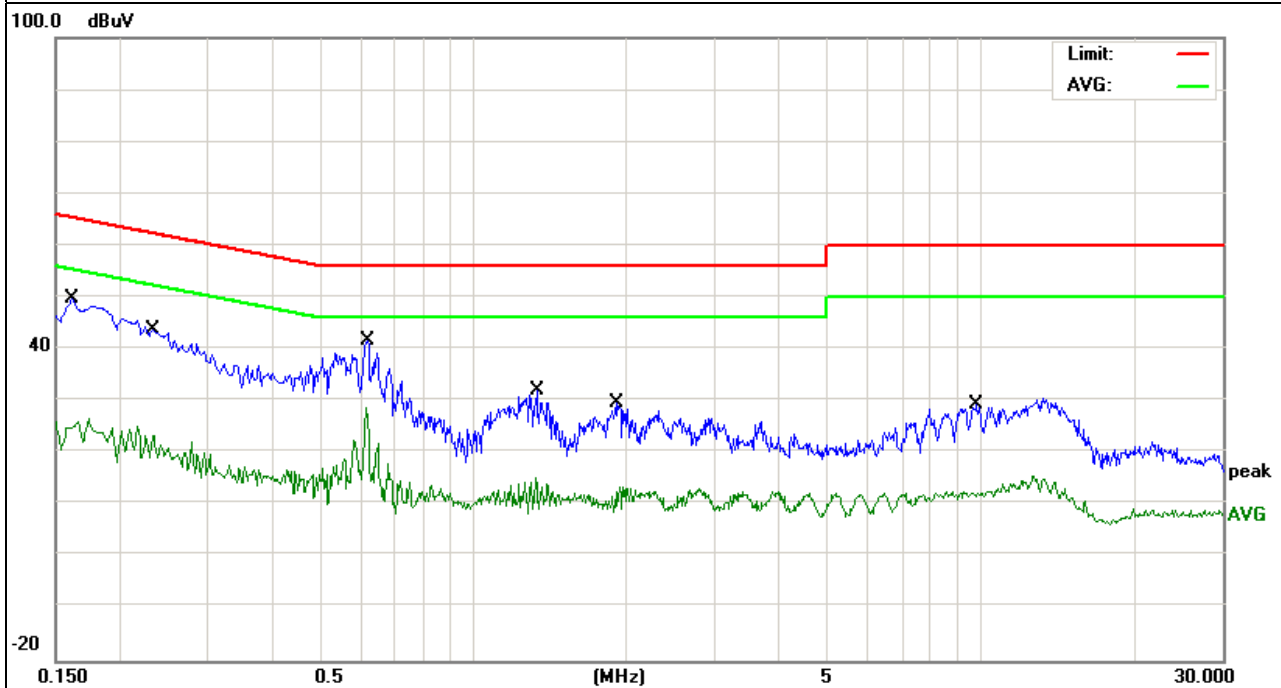


EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V form PC AC 120V/60Hz	Test Mode :	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1620	40.23	9.46	49.69	65.36	-15.67	QP
0.1620	17.17	9.46	26.63	55.36	-28.73	AVG
0.2353	33.96	9.45	43.41	62.26	-18.85	QP
0.2353	13.97	9.45	23.42	52.26	-28.84	AVG
0.6180	32.25	9.44	41.69	56.00	-14.31	QP
0.6180	17.08	9.44	26.52	46.00	-19.48	AVG
1.3340	22.50	9.45	31.95	56.00	-24.05	QP
1.3340	5.79	9.45	15.24	46.00	-30.76	AVG
1.9138	20.18	9.46	29.64	56.00	-26.36	QP
1.9138	4.08	9.46	13.54	46.00	-32.46	AVG
9.8540	19.81	9.67	29.48	60.00	-30.52	QP
9.8540	2.71	9.67	12.38	50.00	-37.62	AVG

Remark:

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

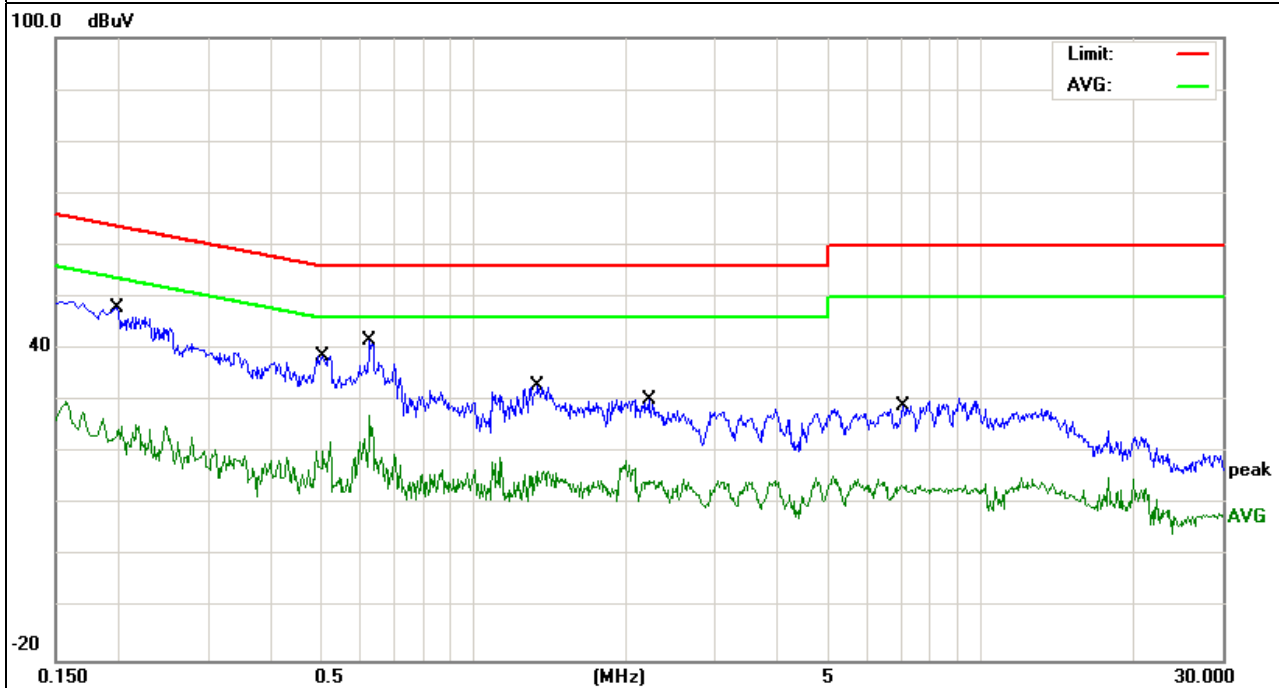


EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V form PC AC 240V/60Hz	Test Mode :	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1980	38.56	9.46	48.02	63.69	-15.67	QP
0.1980	14.48	9.46	23.94	53.69	-29.75	AVG
0.5060	29.32	9.46	38.78	56.00	-17.22	QP
0.5060	7.54	9.46	17.00	46.00	-29.00	AVG
0.6260	32.26	9.44	41.70	56.00	-14.30	QP
0.6260	17.88	9.44	27.32	46.00	-18.68	AVG
1.3420	23.55	9.45	33.00	56.00	-23.00	QP
1.3420	6.25	9.45	15.70	46.00	-30.30	AVG
2.2179	20.68	9.47	30.15	56.00	-25.85	QP
2.2179	4.59	9.47	14.06	46.00	-31.94	AVG
7.0377	19.60	9.51	29.11	60.00	-30.89	QP
7.0377	3.68	9.51	13.19	50.00	-36.81	AVG

Remark:

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

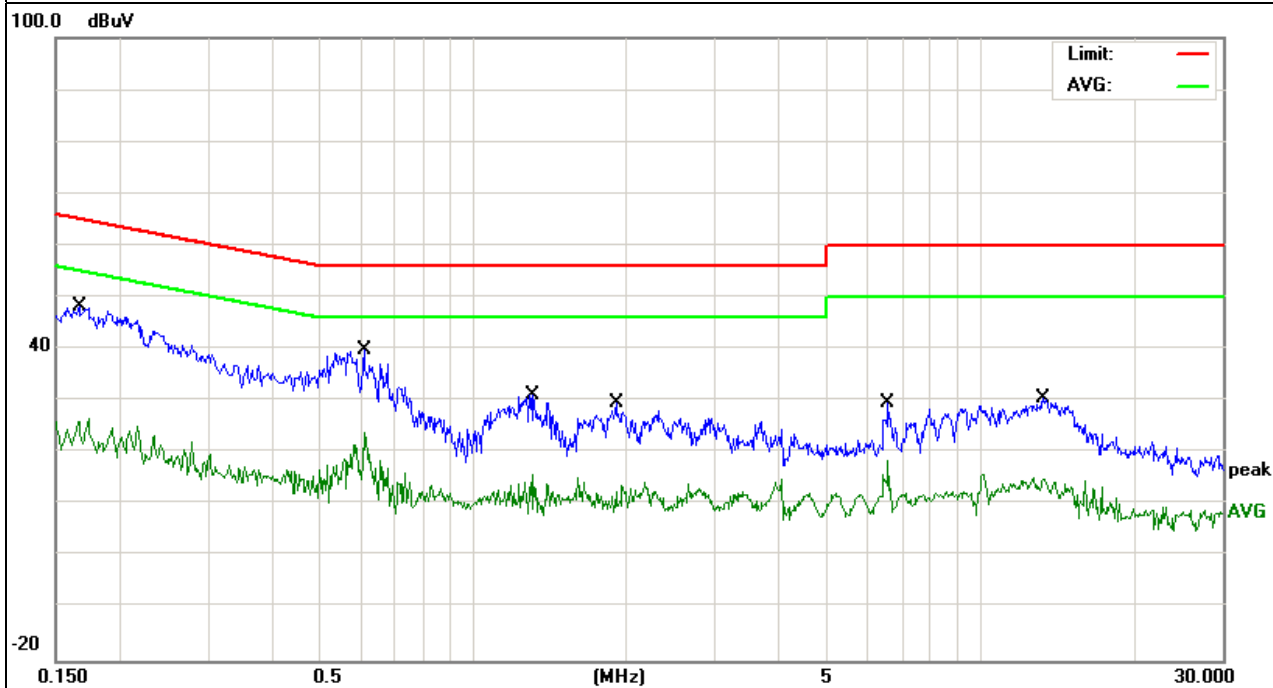


EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V form PC AC 240V/60Hz	Test Mode :	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1665	38.94	9.46	48.40	65.13	-16.73	QP
0.1665	14.90	9.46	24.36	55.13	-30.77	AVG
0.6097	30.32	9.44	39.76	56.00	-16.24	QP
0.6097	11.33	9.44	20.77	46.00	-25.23	AVG
1.3099	21.65	9.45	31.10	56.00	-24.90	QP
1.3099	6.55	9.45	16.00	46.00	-30.00	AVG
1.9134	20.18	9.46	29.64	56.00	-26.36	QP
1.9134	0.42	9.46	9.88	46.00	-36.12	AVG
6.5697	20.19	9.51	29.70	60.00	-30.30	QP
6.5697	9.14	9.51	18.65	50.00	-31.35	AVG
13.3299	20.68	9.74	30.42	60.00	-29.58	QP
13.3299	4.46	9.74	14.20	50.00	-35.80	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. 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 (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	dBuV/m@at 3M	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

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

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

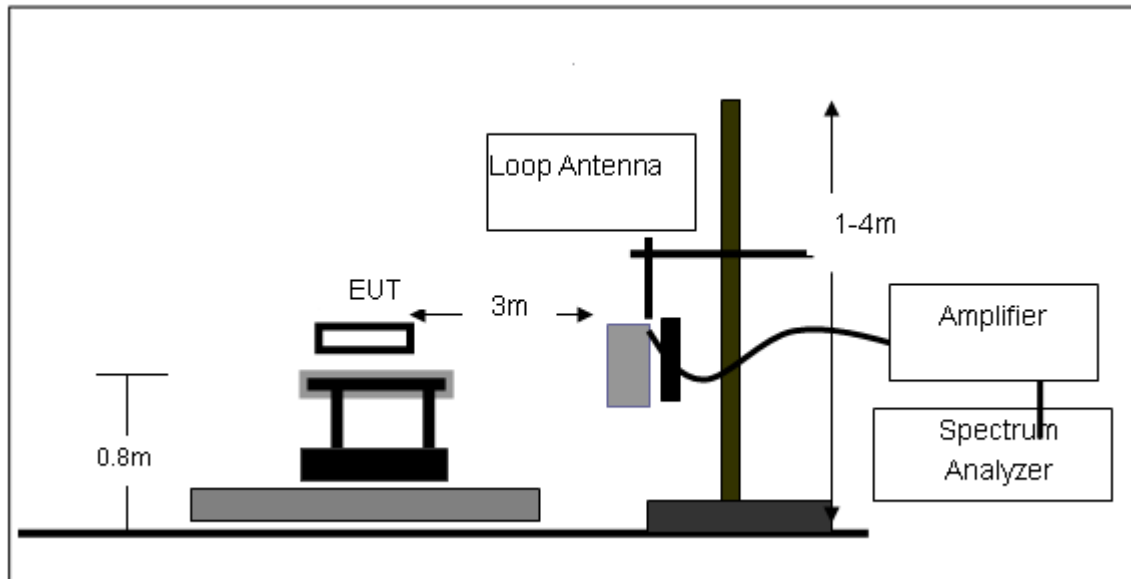
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

3.2.3 DEVIATION FROM TEST STANDARD

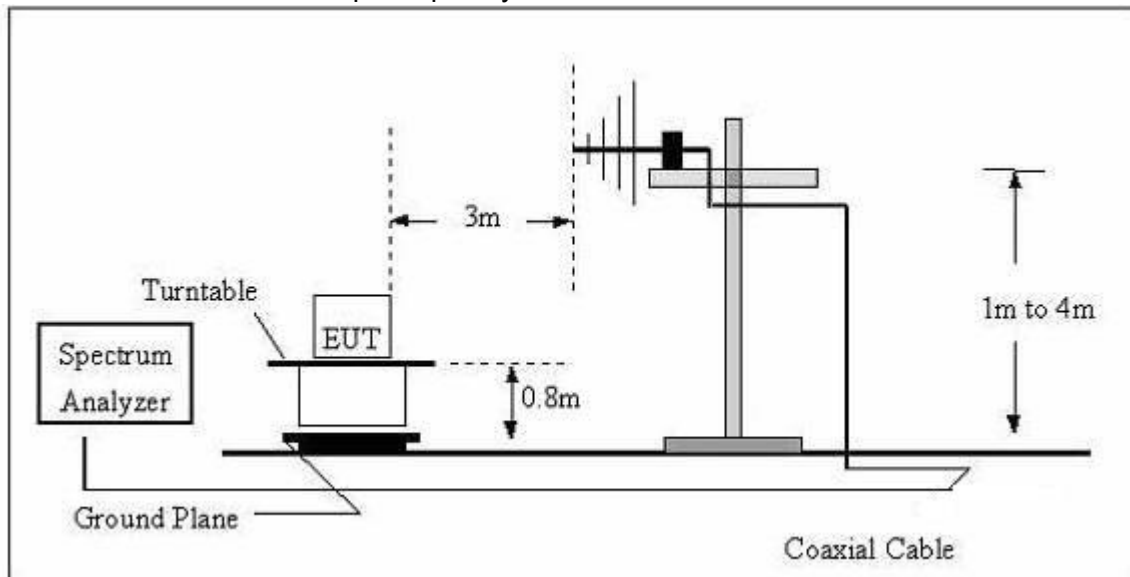
No deviation

3.2.4 TEST SETUP

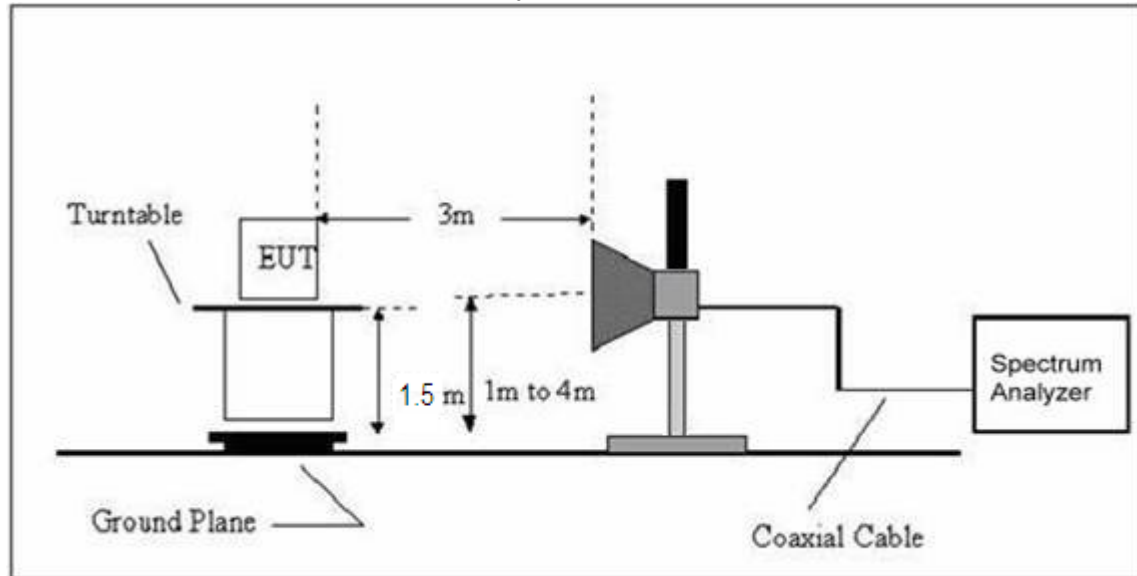
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 (BETWEEN 9KHZ – 30 MHZ)

EUT:	8 Inch Full Ruggedized Tablet	Model Name. :	xTablet T8500
Temperature:	20 °C	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
--	--	--	--	N/A
--	--	--	--	N/A

NOTE:

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

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

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

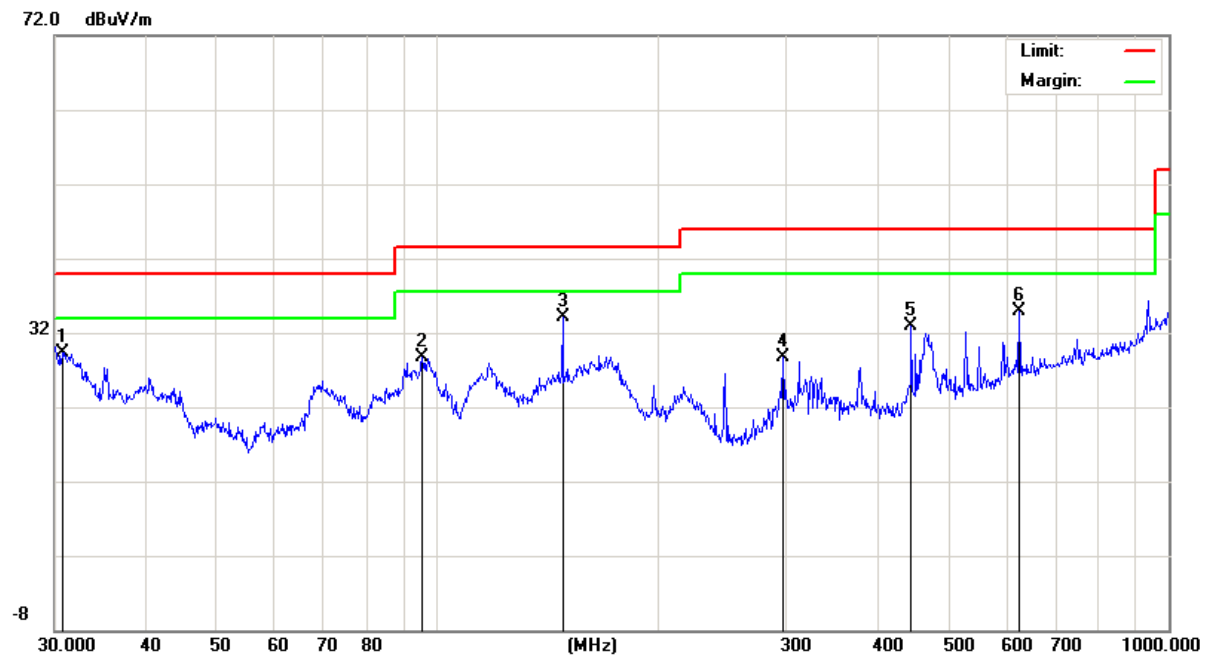
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX -802.11B (High CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.7454	10.10	19.30	29.40	40.00	-10.60	QP
V	95.4270	18.51	10.12	28.63	43.50	-14.87	QP
V	148.4410	22.50	11.57	34.07	43.50	-9.43	QP
V	297.2241	16.22	12.51	28.73	46.00	-17.27	QP
V	444.8514	17.04	15.87	32.91	46.00	-13.09	QP
V	625.0779	14.91	19.92	34.83	46.00	-11.17	QP

Remark:

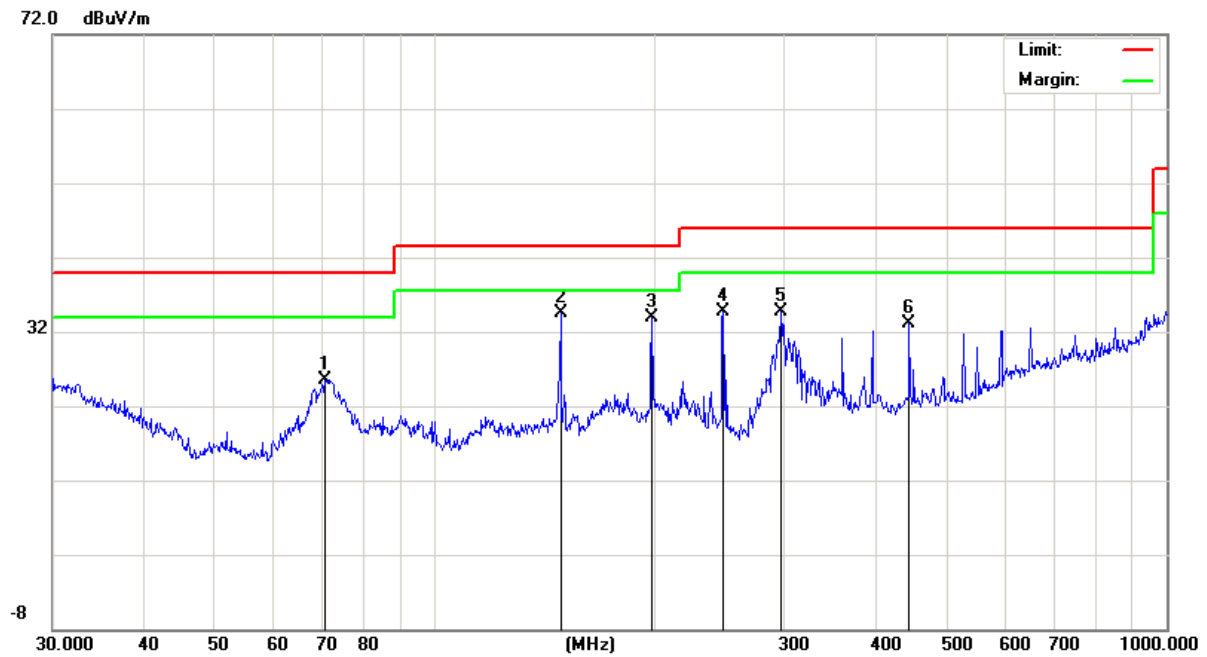
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	70.5836	16.37	9.13	25.50	40.00	-14.50	QP
H	148.4410	22.86	11.57	34.43	43.50	-9.07	QP
H	197.8926	22.40	11.45	33.85	43.50	-9.65	QP
H	247.6819	24.04	10.74	34.78	46.00	-11.22	QP
H	297.2241	22.17	12.51	34.68	46.00	-11.32	QP
H	444.8514	17.29	15.87	33.16	46.00	-12.84	QP

Remark:

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



3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX		

The Testing have been conformed to 10*2462MHz=24620MHz, and the worst result was report as below:
All the modulation modes have been tested, and the worst result was report as below:

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (2412 MHz)-Above 1G							
Vertical	4824.413	50.46	10.44	60.90	74.00	-13.10	Pk
Vertical	4824.413	33.15	10.44	43.59	54.00	-10.41	Av
Vertical	7236.154	44.84	12.39	57.23	74.00	-16.77	Pk
Vertical	7236.154	29.12	12.39	41.51	54.00	-12.49	Av
Horizontal	4824.415	53.32	10.42	63.74	74.00	-10.26	Pk
Horizontal	4824.415	32.21	10.44	42.65	54.00	-11.35	Av
Horizontal	7236.146	45.46	12.39	57.85	74.00	-16.15	Pk
Horizontal	7236.146	30.42	12.39	42.81	54.00	-11.19	Av
Mid Channel (2437 MHz)-Above 1G							
Vertical	4874.315	51.14	10.40	61.54	74.00	-12.46	Pk
Vertical	4874.315	31.75	10.40	42.15	54.00	-11.85	Av
Vertical	7311.323	44.67	12.75	57.42	74.00	-16.58	Pk
Vertical	7311.323	27.66	12.75	40.41	54.00	-13.59	Av
Horizontal	4874.182	51.78	10.40	62.18	74.00	-11.82	Pk
Horizontal	4874.182	33.01	10.40	43.41	54.00	-10.59	Av
Horizontal	7311.265	47.89	12.75	60.64	74.00	-13.36	Pk
Horizontal	7311.265	28.54	12.75	41.29	54.00	-12.71	Av
High Channel (2462 MHz)- Above 1G							
Vertical	4924.346	50.92	10.39	61.31	74.00	-12.69	Pk
Vertical	4924.346	32.47	10.39	42.86	54.00	-11.14	Av
Vertical	7386.256	43.49	12.68	56.17	74.00	-17.83	Pk
Vertical	7386.256	28.93	12.68	41.61	54.00	-12.39	Av
Horizontal	4924.181	49.95	10.39	60.34	74.00	-13.66	Pk
Horizontal	4924.181	34.46	10.39	44.85	54.00	-9.15	Av
Horizontal	7386.189	47.35	12.68	60.03	74.00	-13.97	Pk
Horizontal	7386.189	28.64	12.68	41.32	54.00	-12.68	Av

Radiated band edge:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
802.11b							
2390	57.45	-13.06	44.39	74	-29.61	peak	Vertical
2390	58.15	-13.06	45.09	74	-28.91	peak	Horizontal
2483.5	58.52	-12.78	45.74	74	-28.26	peak	Vertical
2483.5	59.24	-12.78	46.46	74	-27.54	peak	Horizontal
802.11g							
2390	56.24	-13.06	43.18	74	-30.82	peak	Vertical
2390	57.48	-13.06	44.42	74	-29.58	peak	Horizontal
2483.5	58.97	-12.78	46.19	74	-27.81	peak	Vertical
2483.5	56.36	-12.78	43.58	74	-30.42	peak	Horizontal
802.11n (20)							
2390	59.57	-13.06	46.51	74	-27.49	peak	Vertical
2390	60.63	-13.06	47.57	74	-26.43	peak	Horizontal
2483.5	61.54	-12.78	48.76	74	-25.24	peak	Vertical
2483.5	60.83	-12.78	48.05	74	-25.95	peak	Horizontal
802.11n (40)							
2390	63.58	-13.06	50.52	74	-23.48	peak	Vertical
2390	62.16	-13.06	49.1	74	-24.90	peak	Horizontal
2483.5	60.45	-12.78	47.67	74	-26.33	peak	Vertical
2483.5	63.12	-12.78	50.34	74	-23.66	peak	Horizontal

4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

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

4.1.1 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. 3 kHz $\leq$ Set the RBW $\leq$ 100 kHz.
4. Set the VBW $\geq$ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



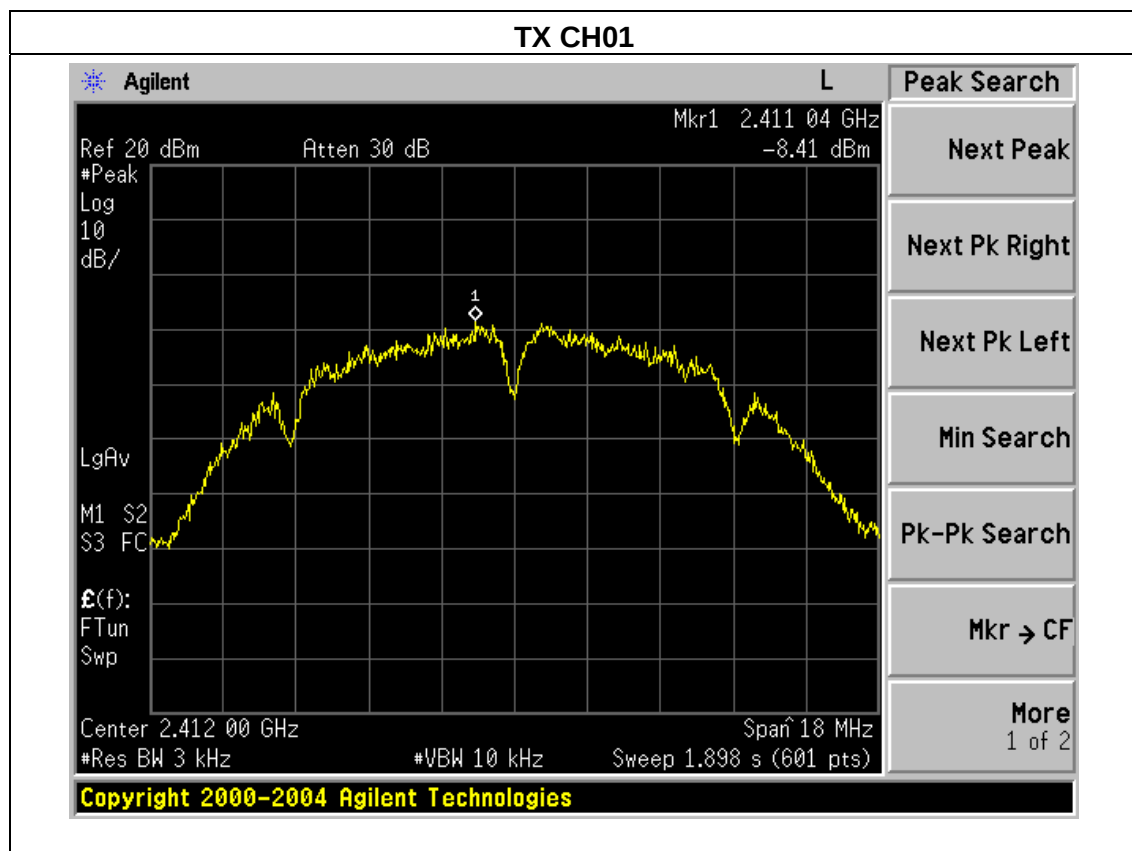
4.1.4 EUT OPERATION CONDITIONS

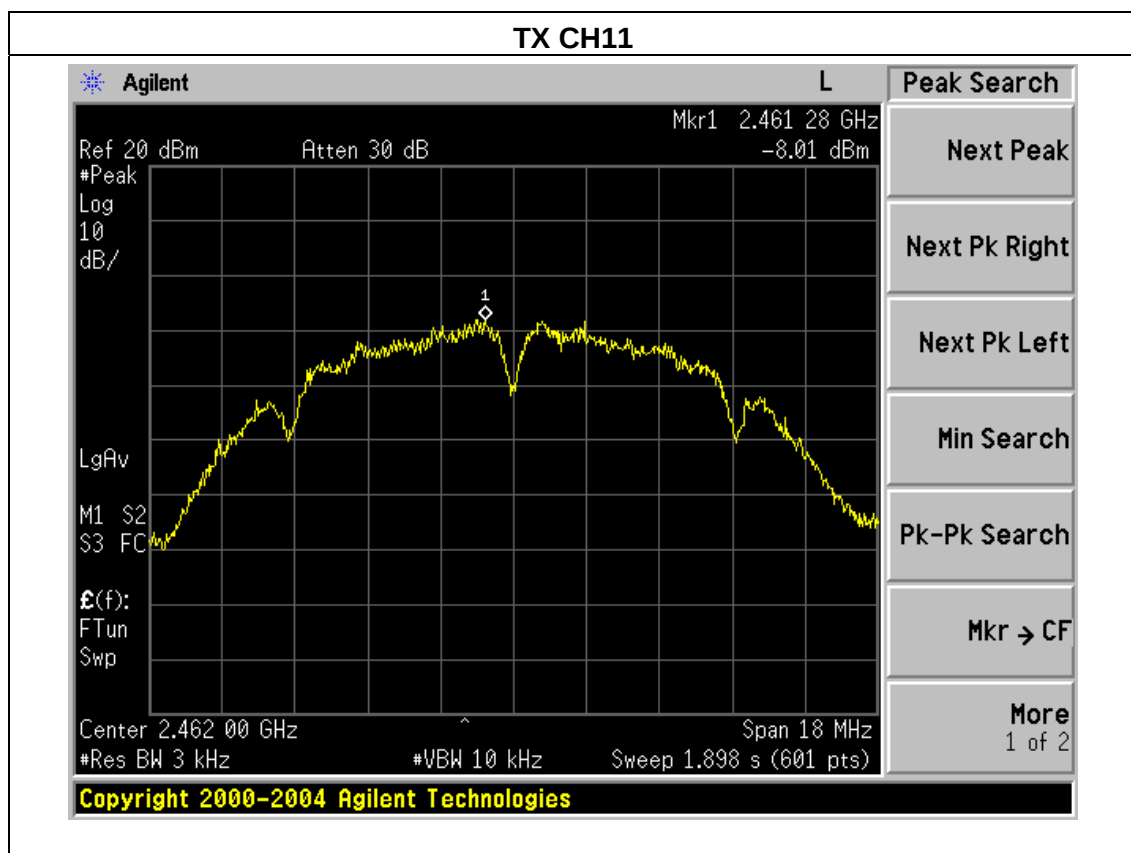
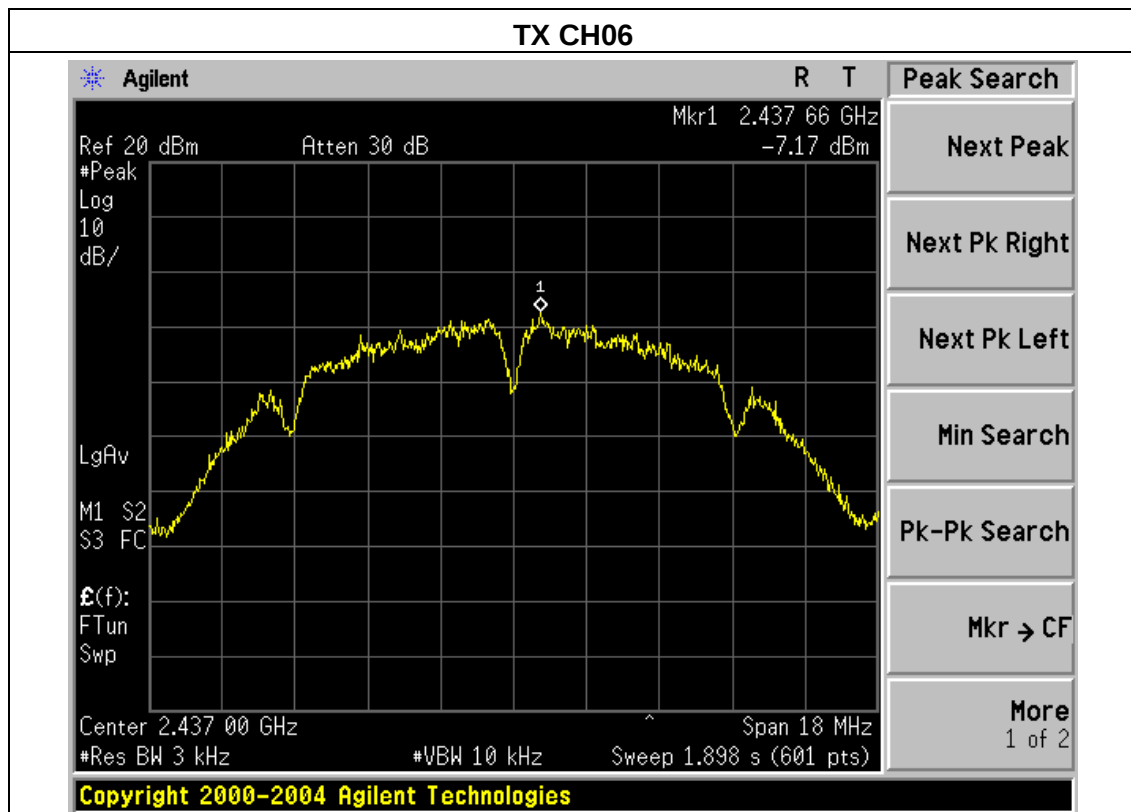
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

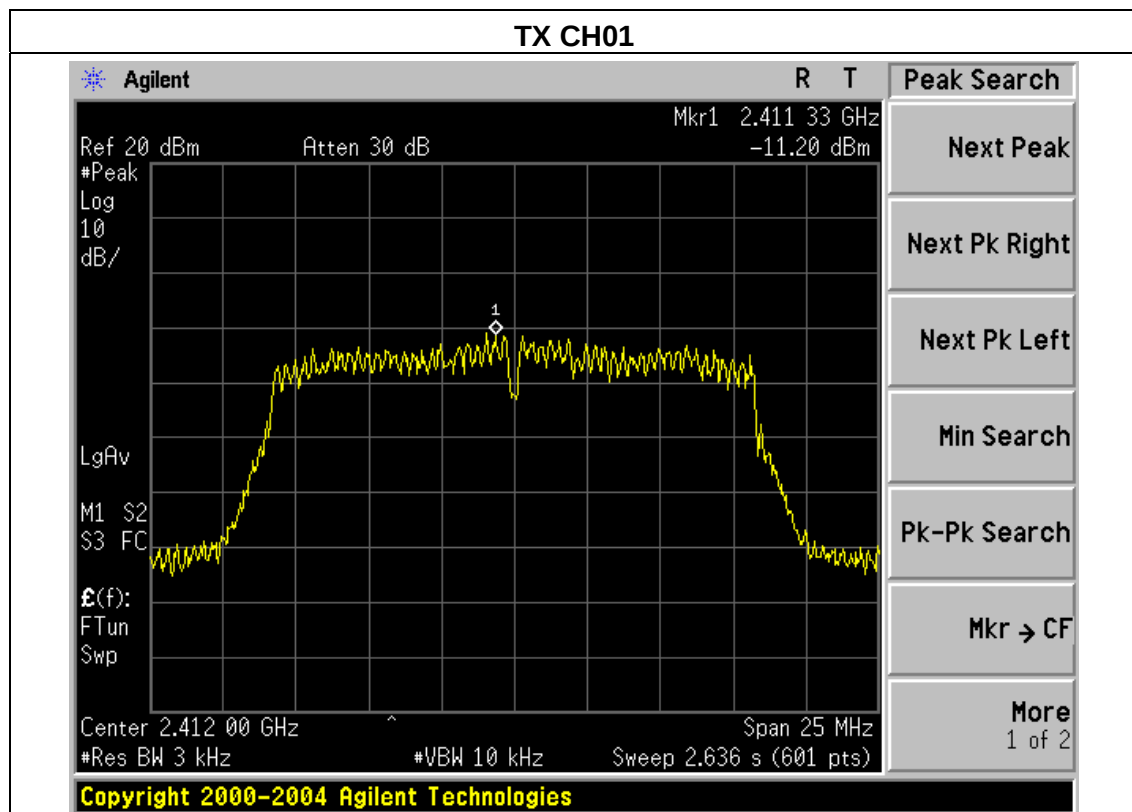
Frequency	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
2412 MHz	-8.41	8	PASS
2437 MHz	-7.17	8	PASS
2462 MHz	-8.01	8	PASS

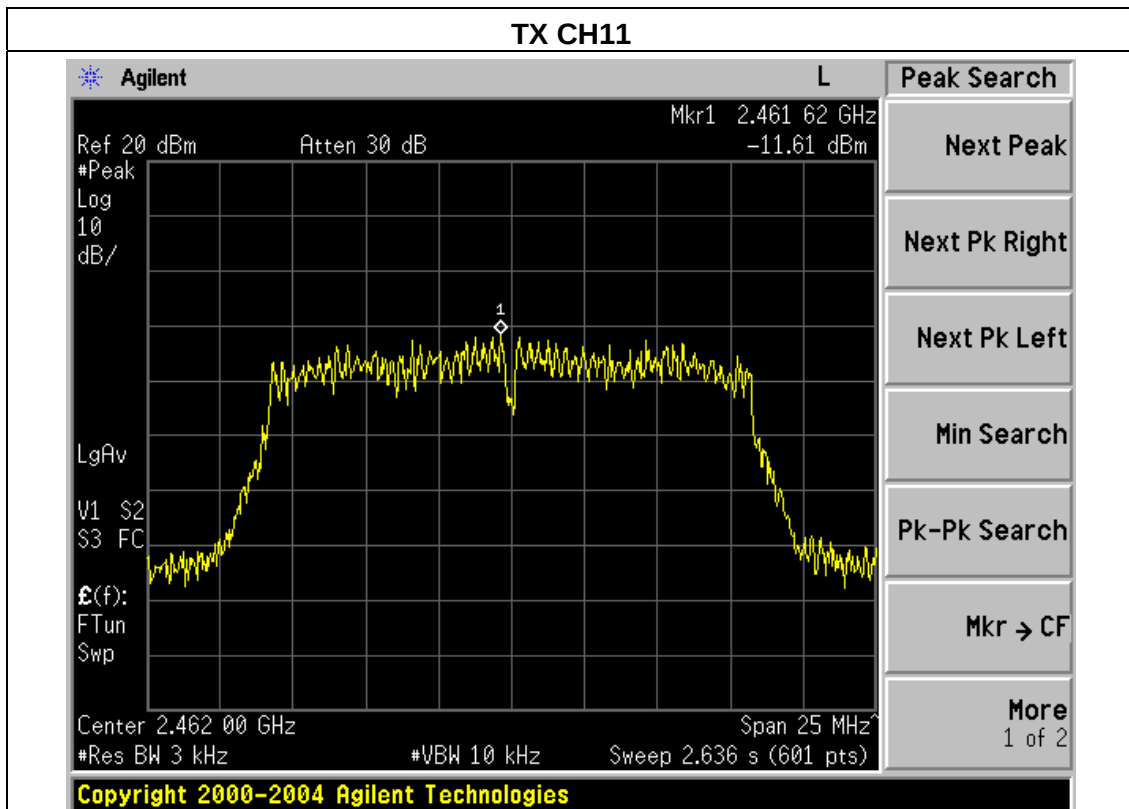
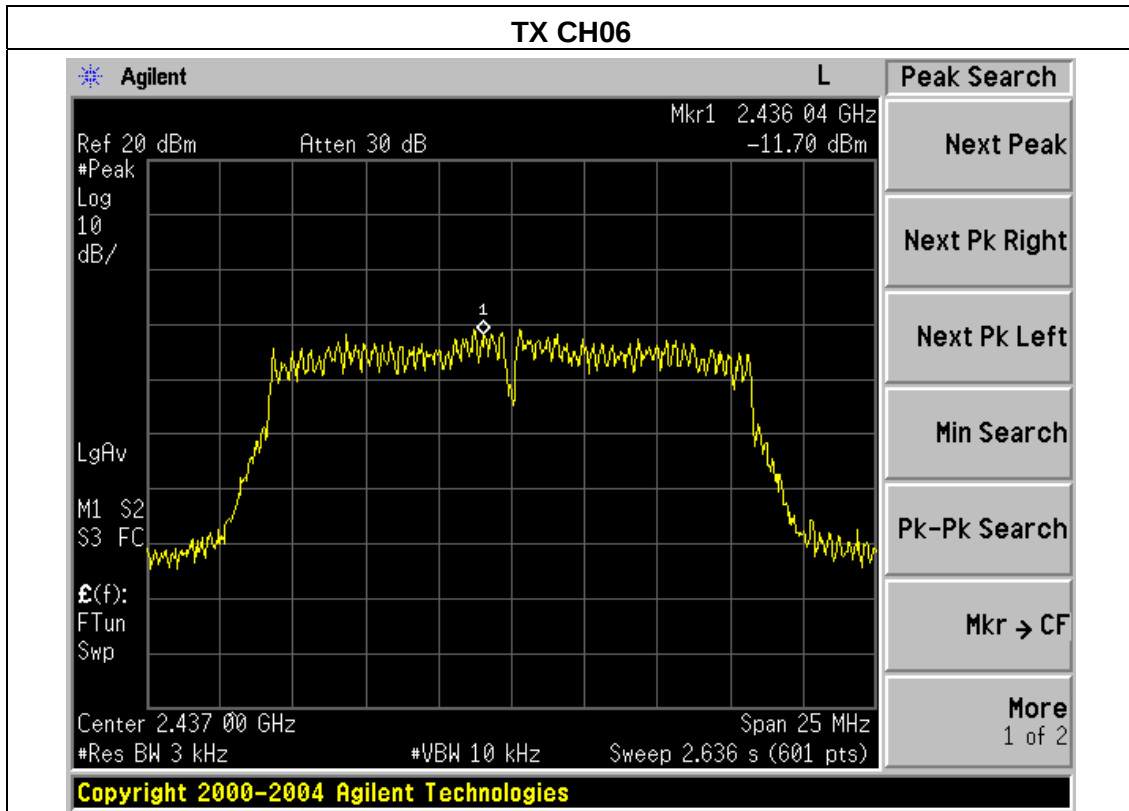




EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH11		

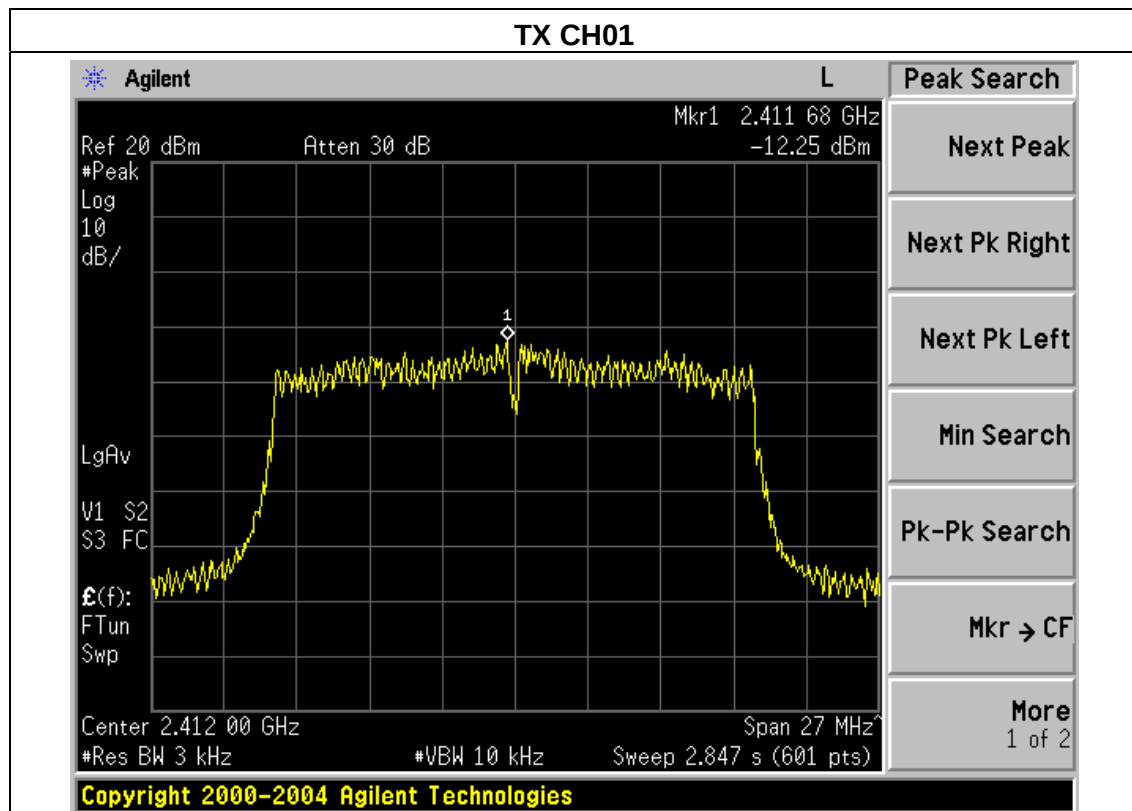
Frequency	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
2412 MHz	-11.20	8	PASS
2437 MHz	-11.70	8	PASS
2462 MHz	-11.61	8	PASS

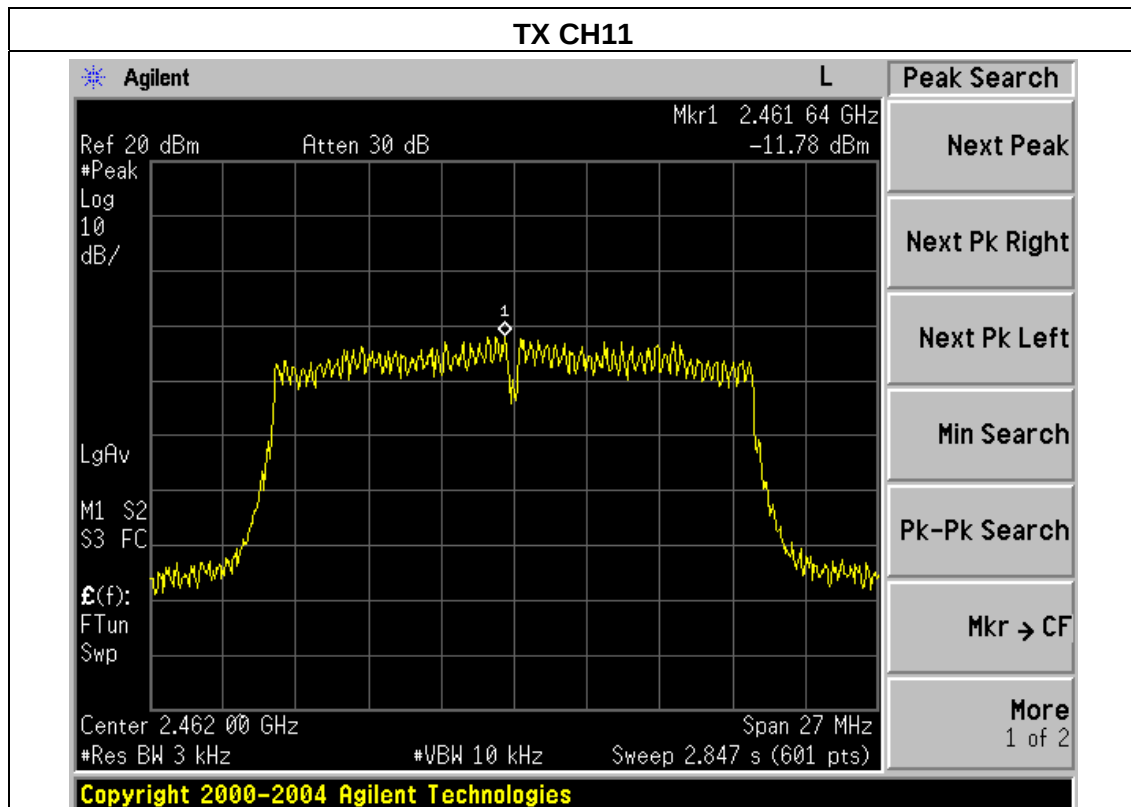
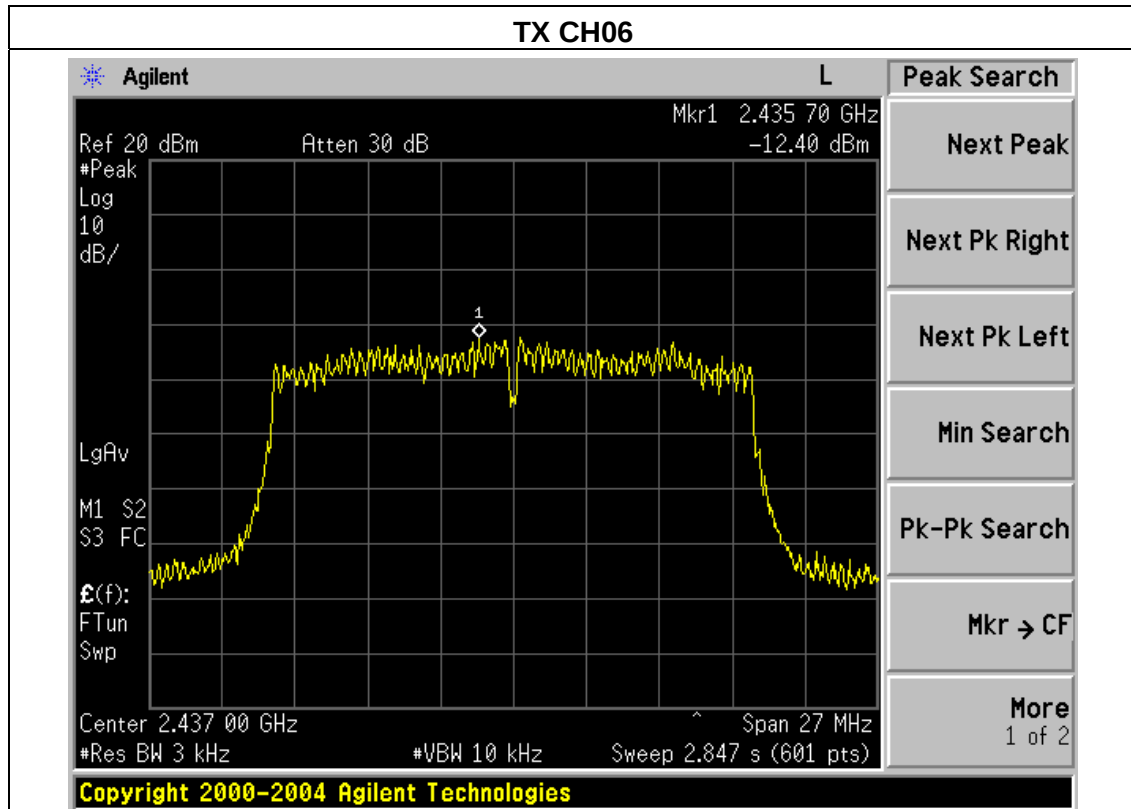




EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode (20MHz)/CH01, CH06, CH11		

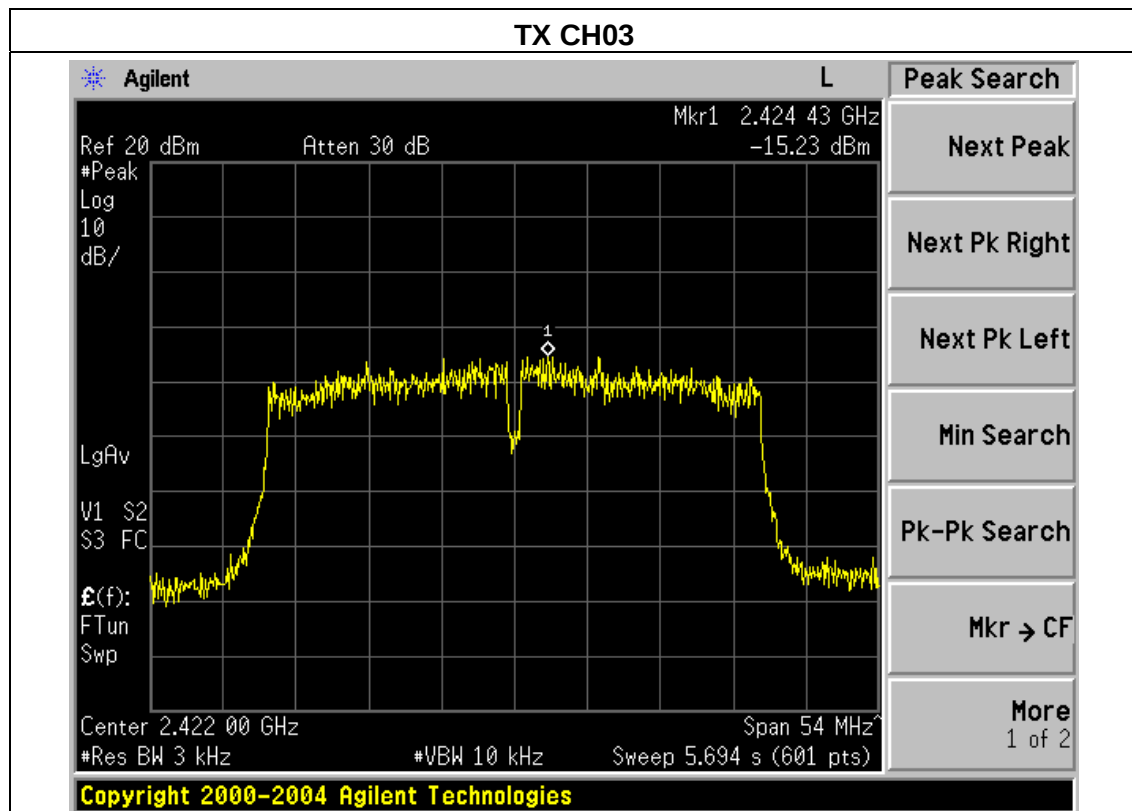
Frequency	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
2412 MHz	-12.25	8	PASS
2437 MHz	-12.40	8	PASS
2462 MHz	-11.78	8	PASS

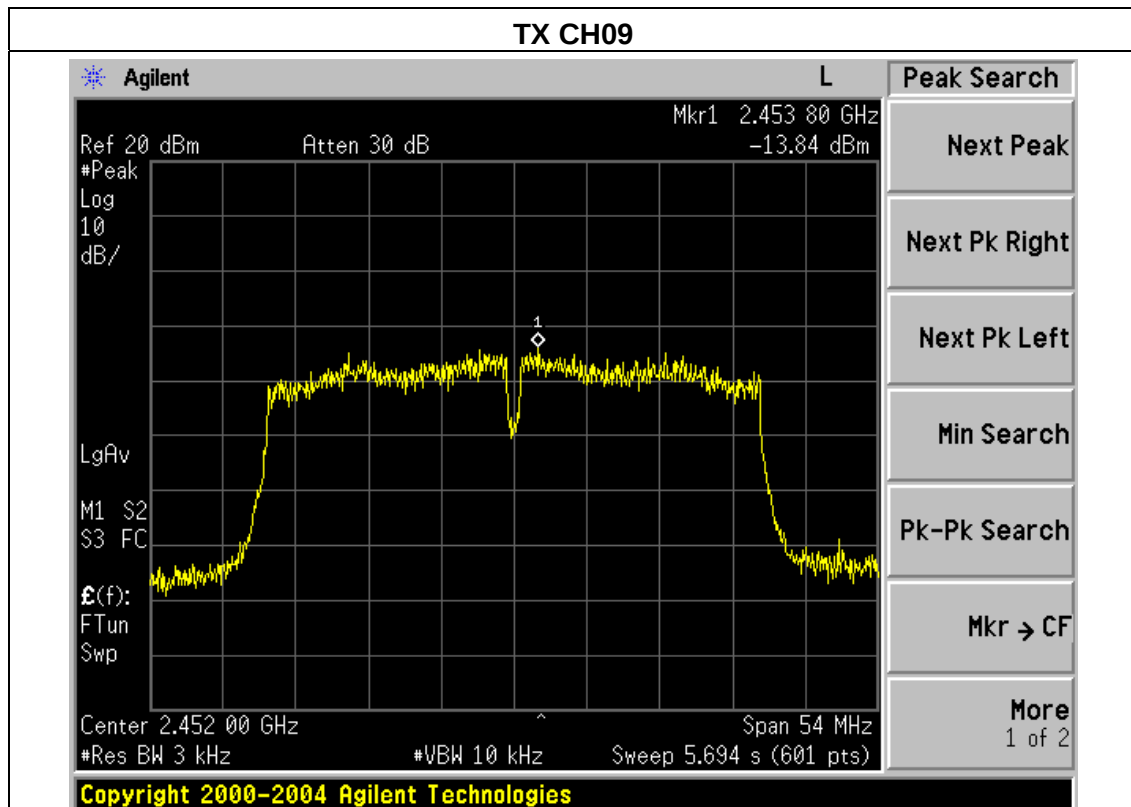
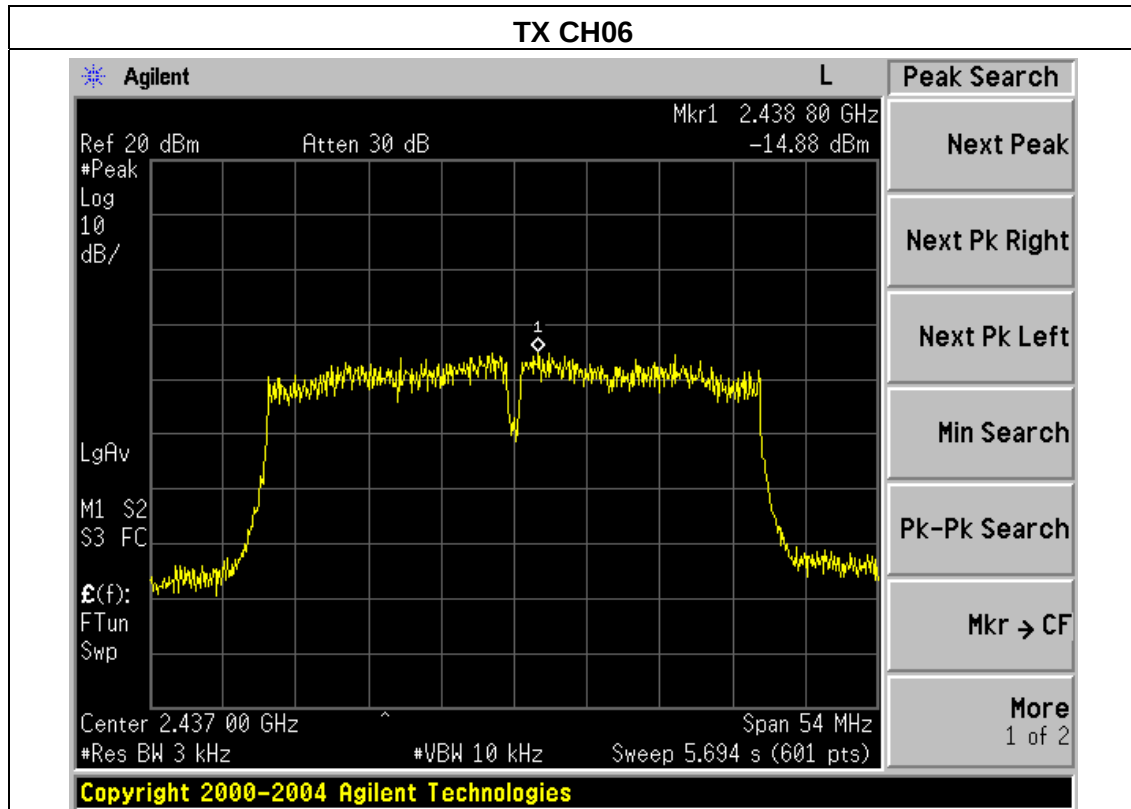




EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode (40MHz)/CH03, CH06, CH09		

Frequency	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
2422 MHz	-15.23	8	PASS
2437 MHz	-14.88	8	PASS
2452 MHz	-13.84	8	PASS





5. BANDWIDTH TEST

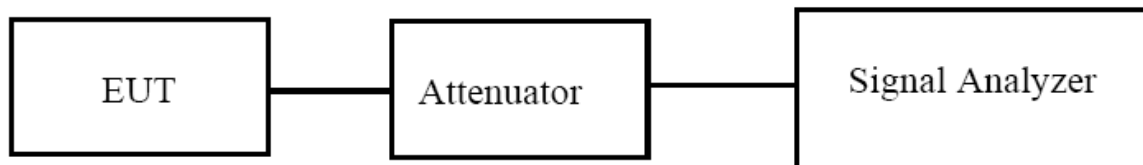
5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



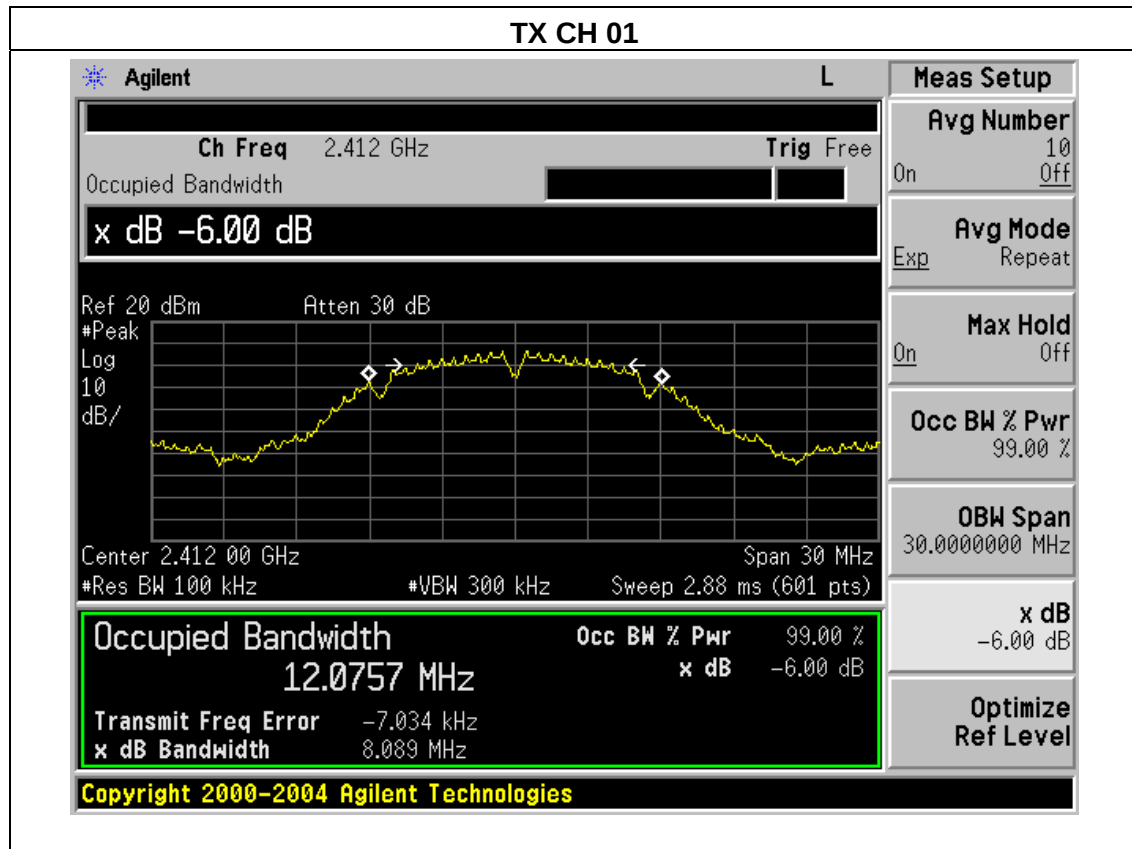
5.1.2 EUT OPERATION CONDITIONS

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

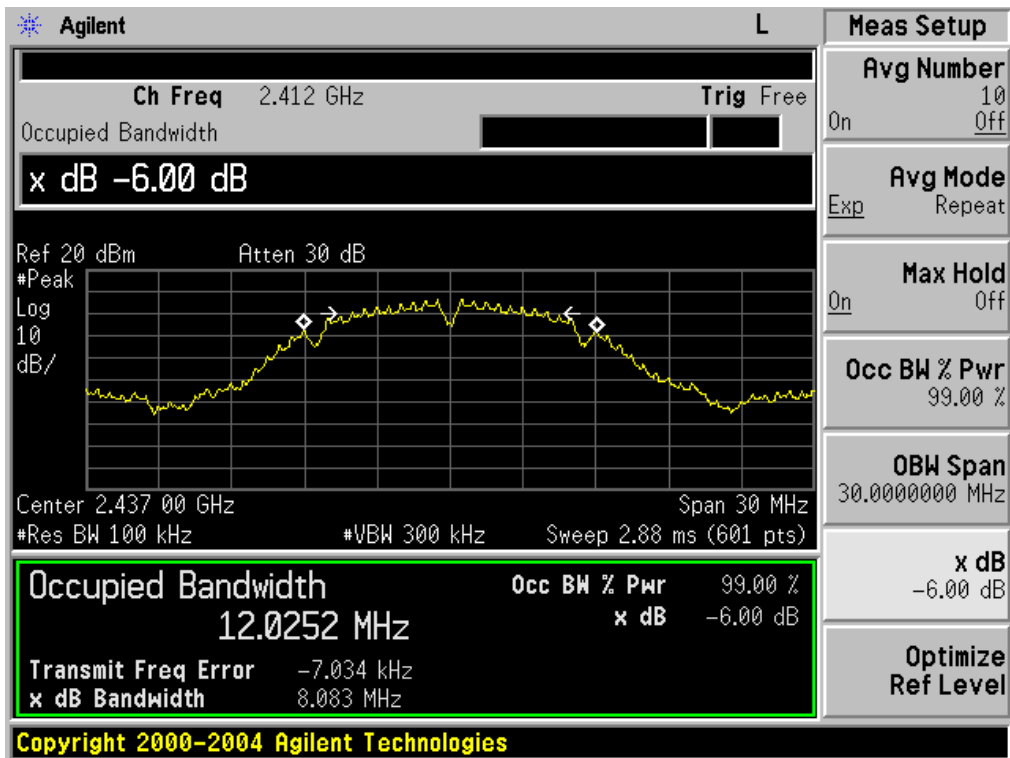
5.1.3 TEST RESULTS

EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

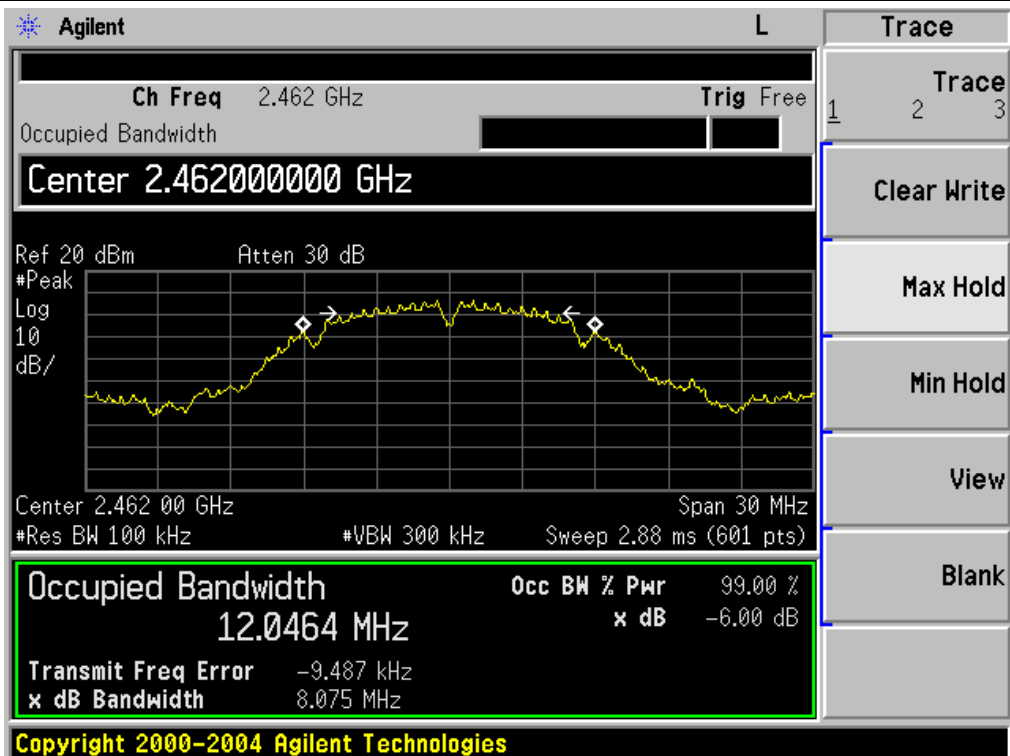
Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	8.089	500	Pass
Middle	2437	8.083	500	Pass
High	2462	8.075	500	Pass



TX CH 06

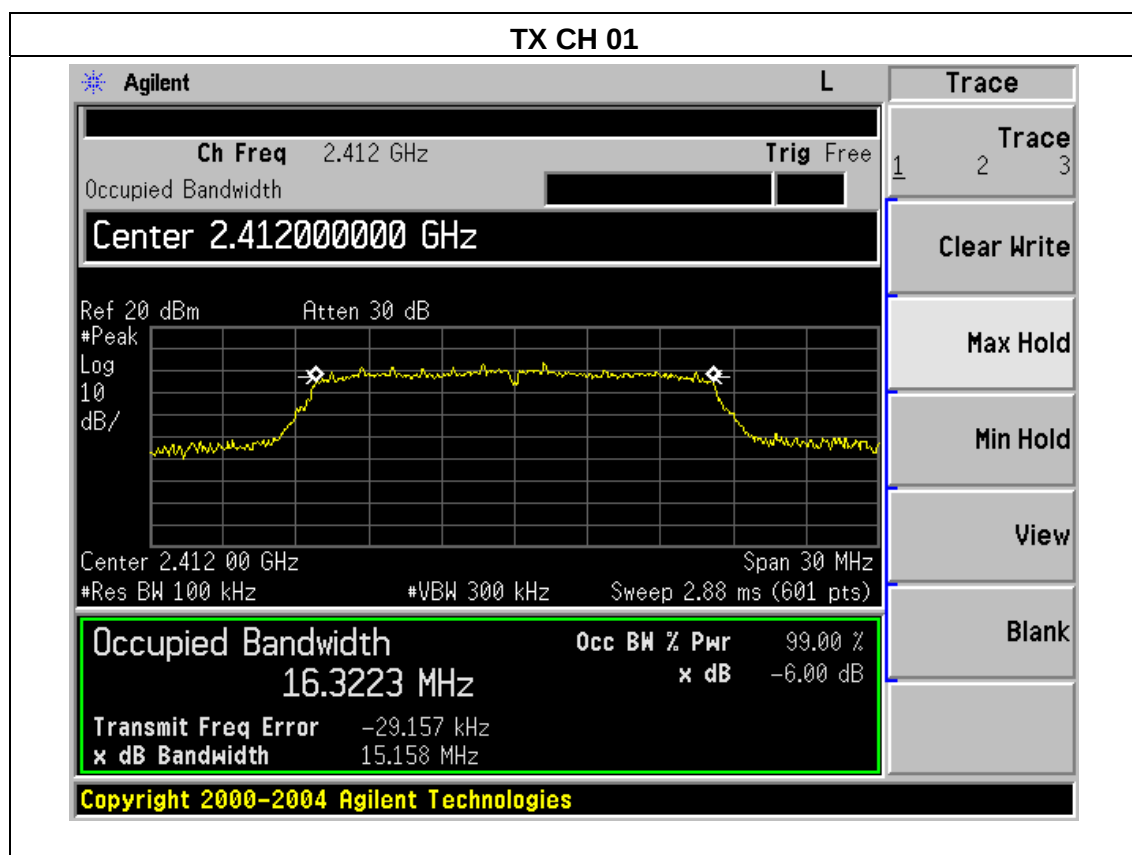


TX CH 11

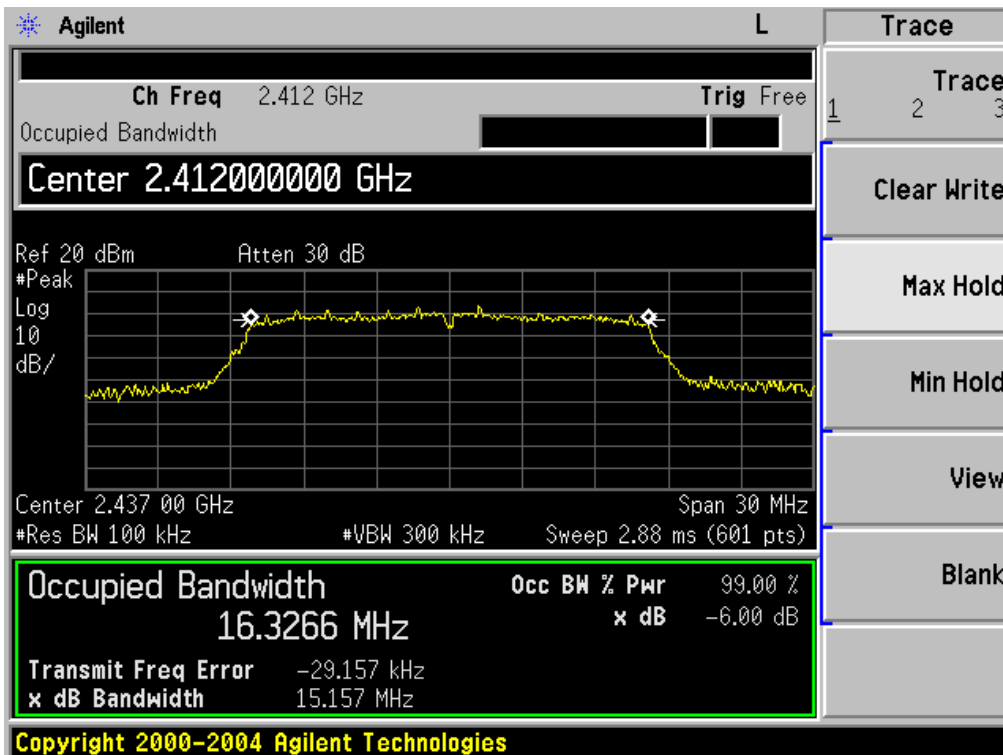


EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH11		

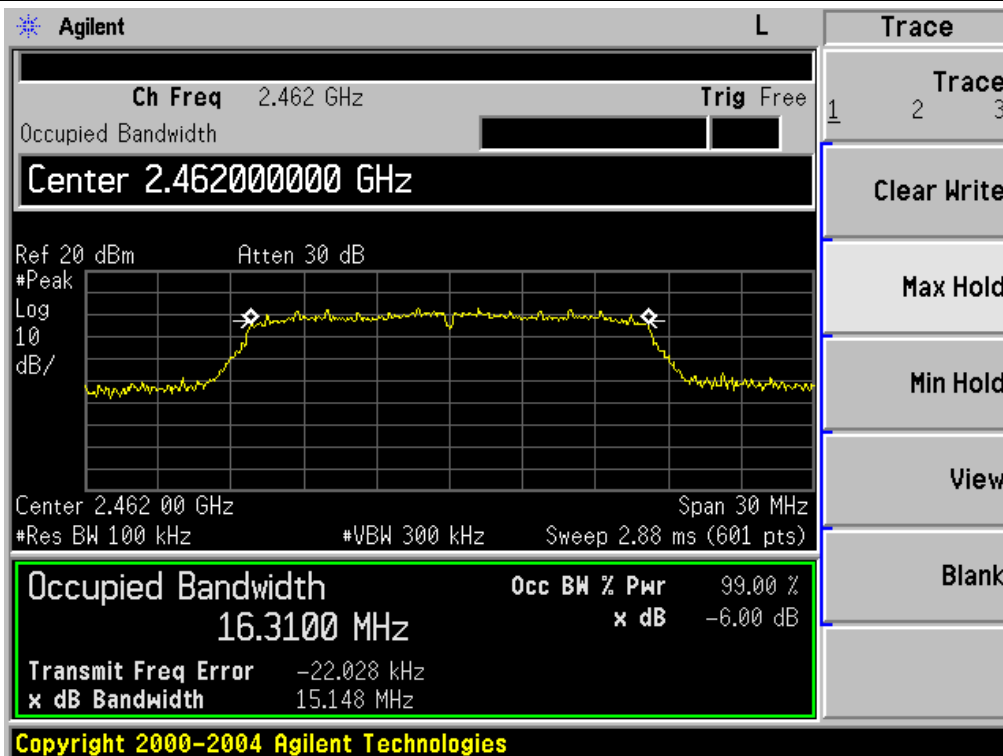
Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	15.158	500	Pass
Middle	2437	15.157	500	Pass
High	2462	15.148	500	Pass



TX CH 06

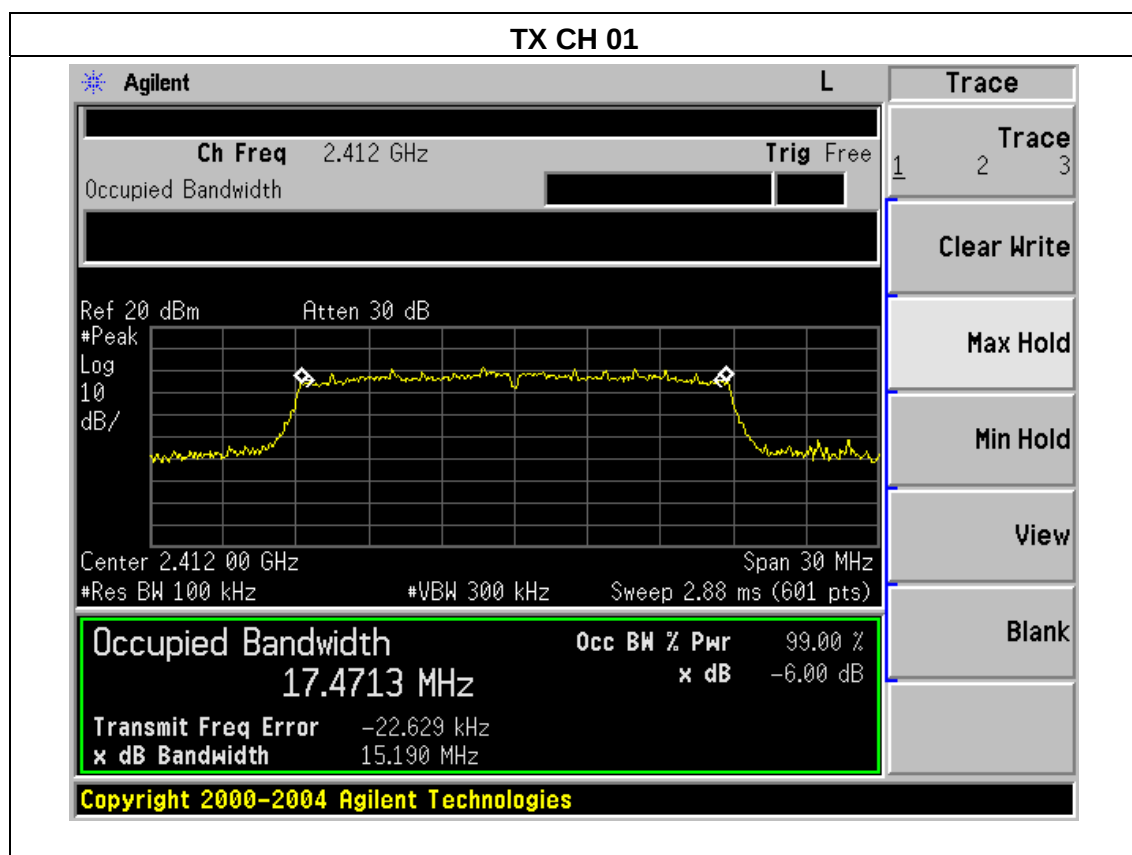


TX CH 11

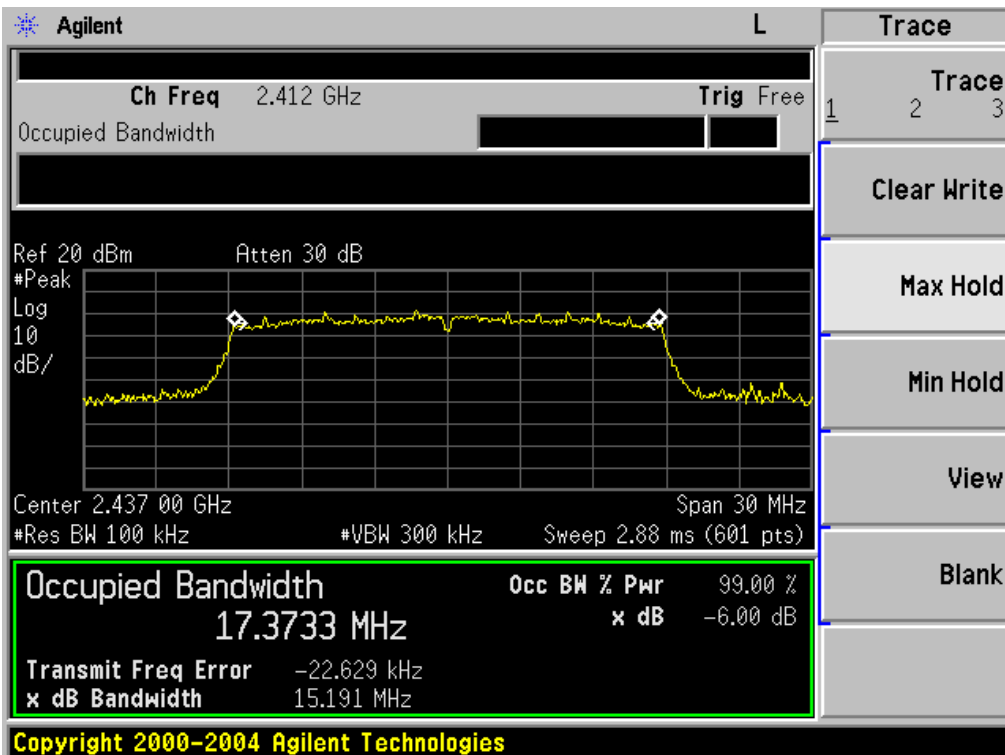


EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

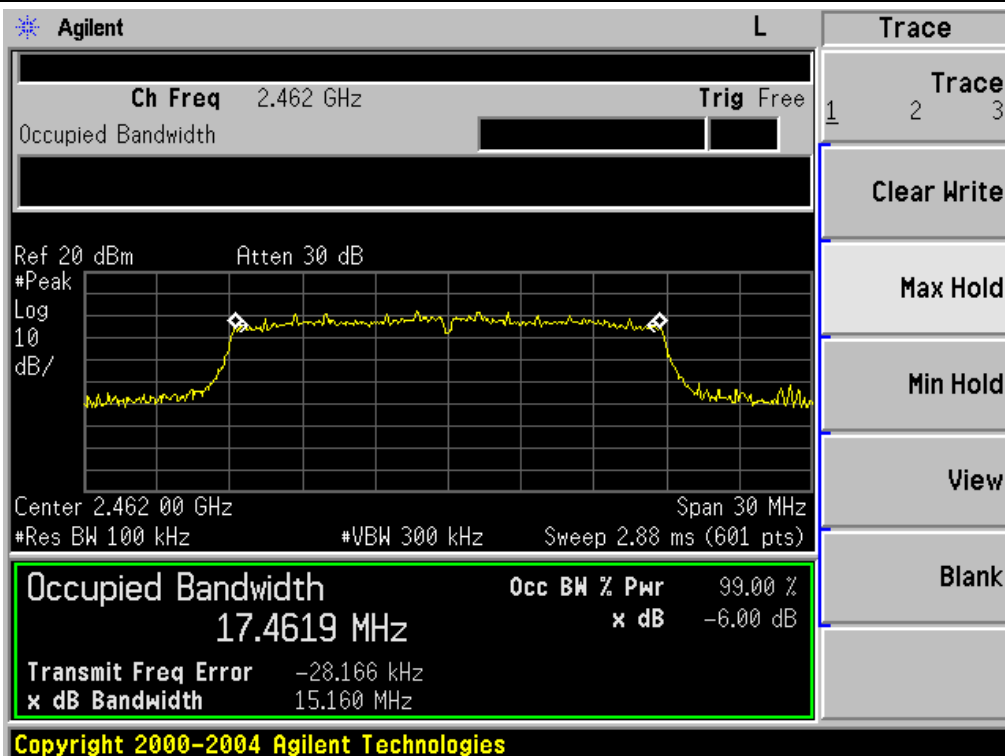
Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	15.190	500	Pass
Middle	2437	15.191	500	Pass
High	2462	15.160	500	Pass



TX CH 06



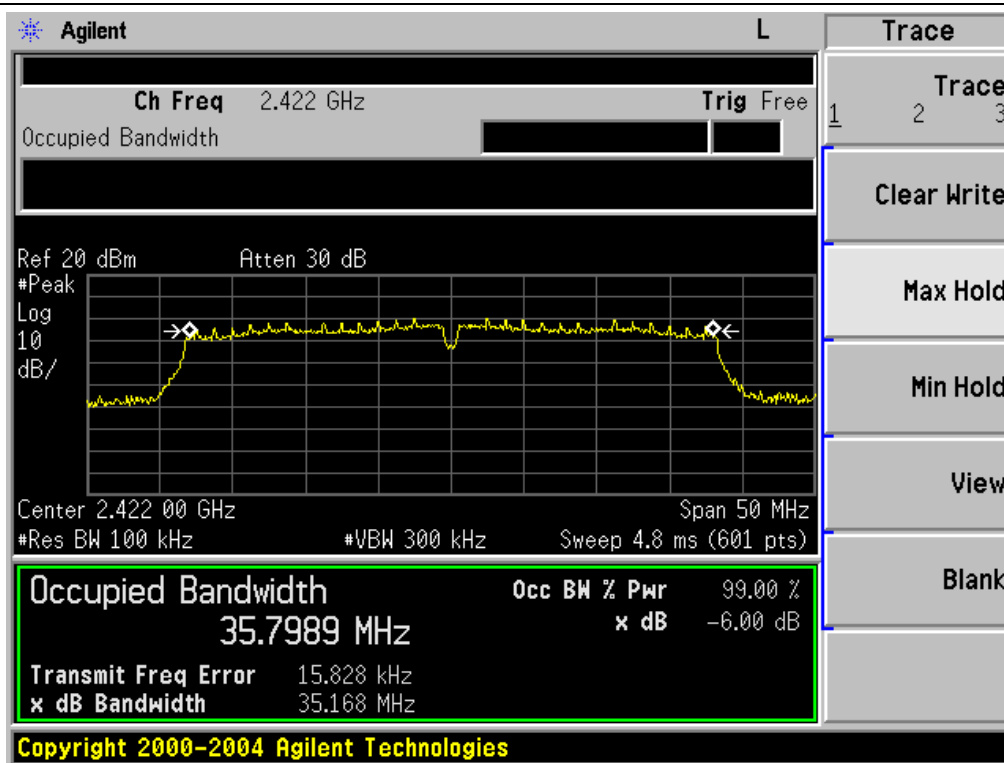
TX CH 11



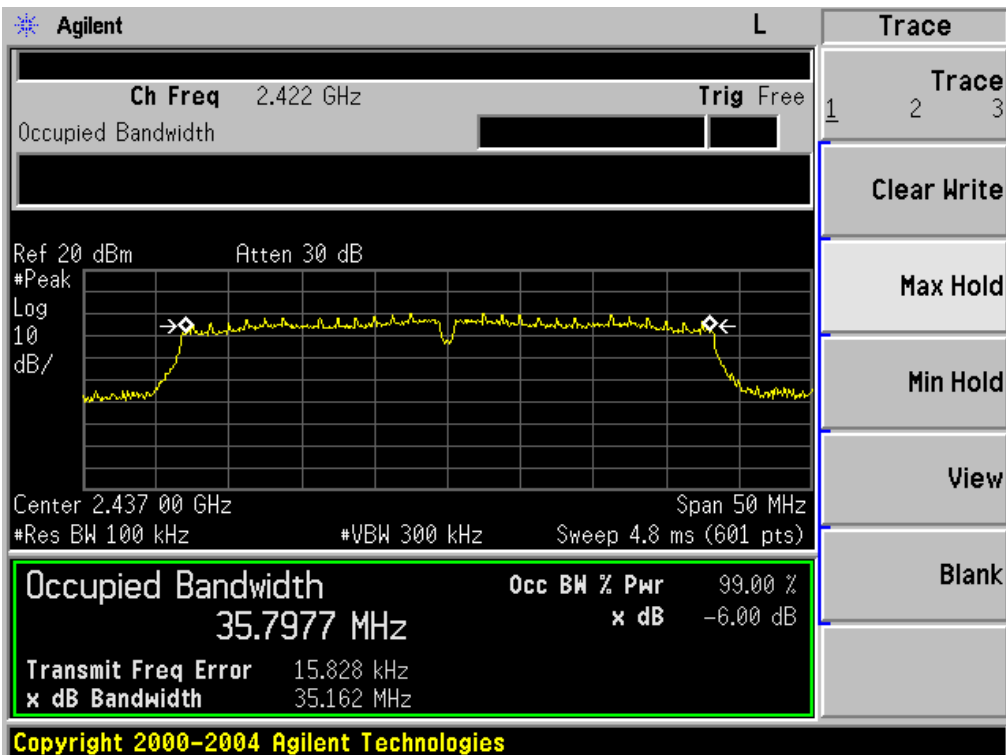
EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2422	35.168	500	Pass
Middle	2437	35.162	500	Pass
High	2452	35.180	500	Pass

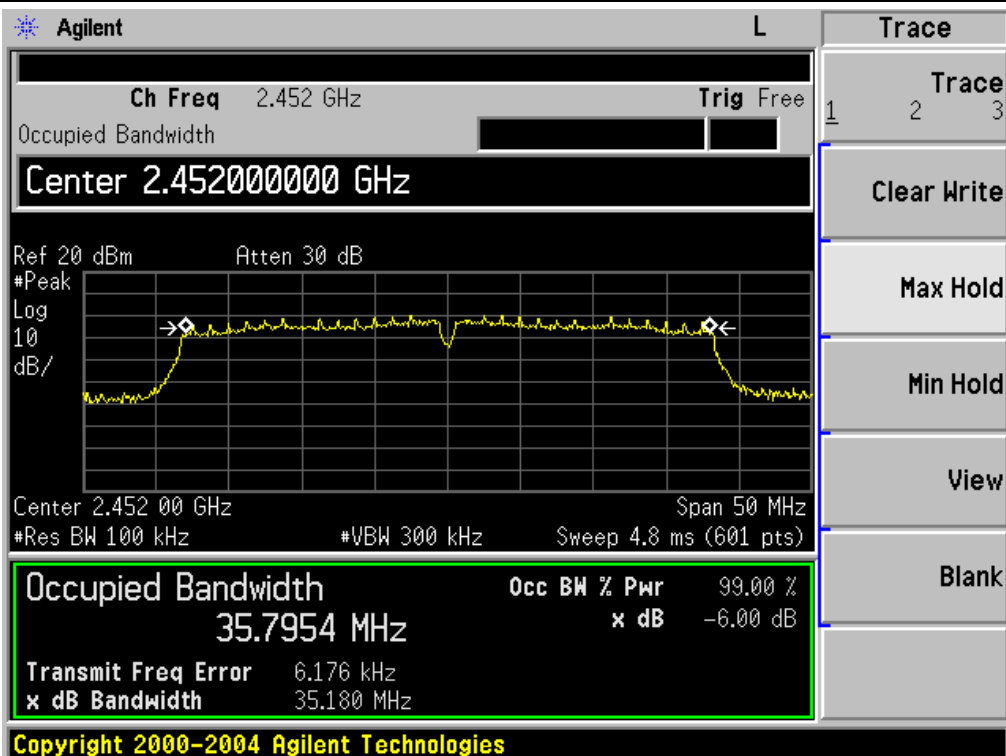
TX CH 03



TX CH 06



TX CH 09



6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

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

6.1.1 TEST PROCEDURE

According to FCC Part15.247(b)(3)

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

The testing follows FCC KDB 558074 DTS 01 Meas. Guidance v03r04 Measurement Guidelines.

The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.

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

Measure the conducted output power with cable loss and record the results in the test report.

Measure and record the results in the report.

According to FCC Part 15.247(b)(4):

Conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

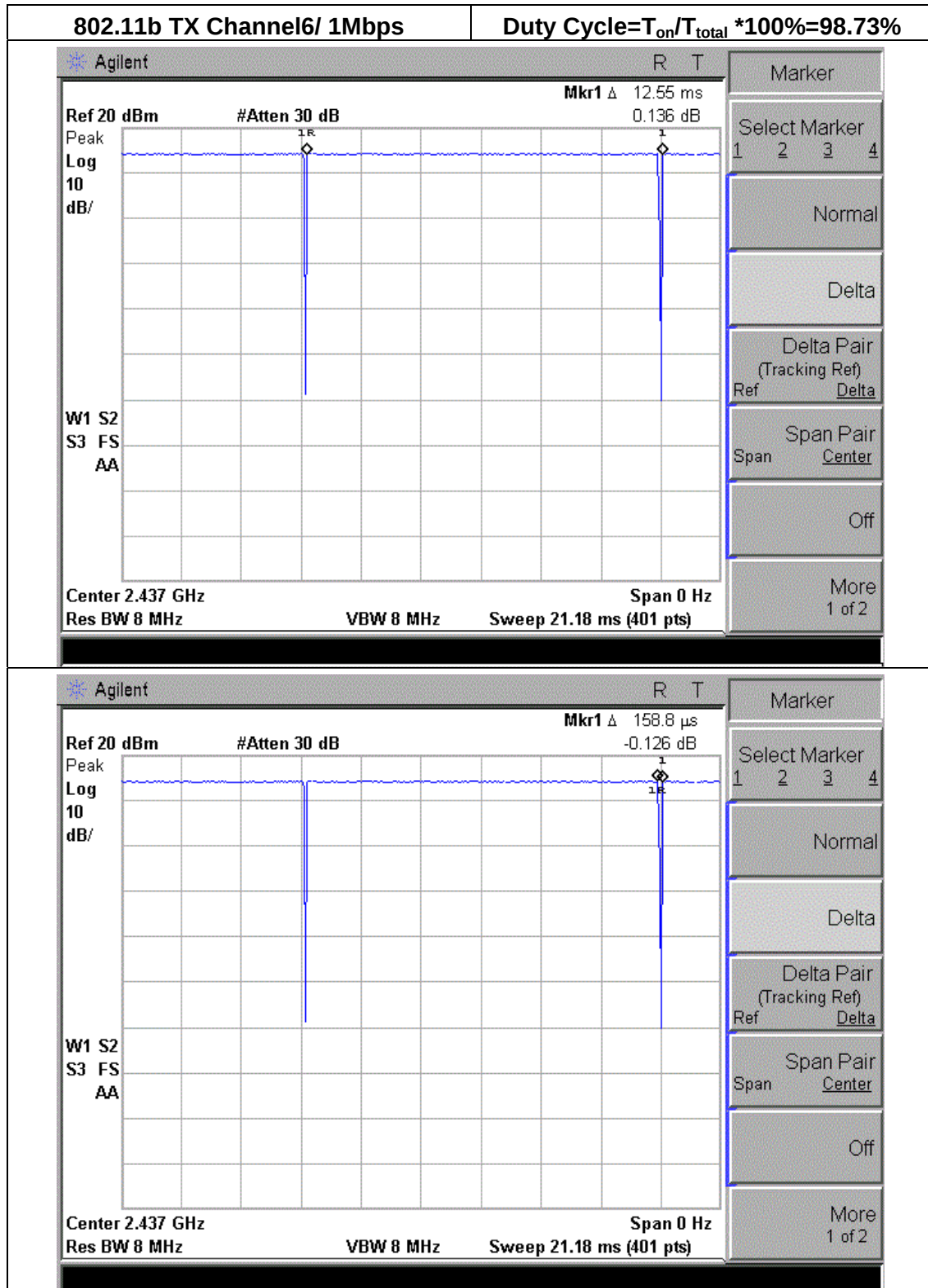
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

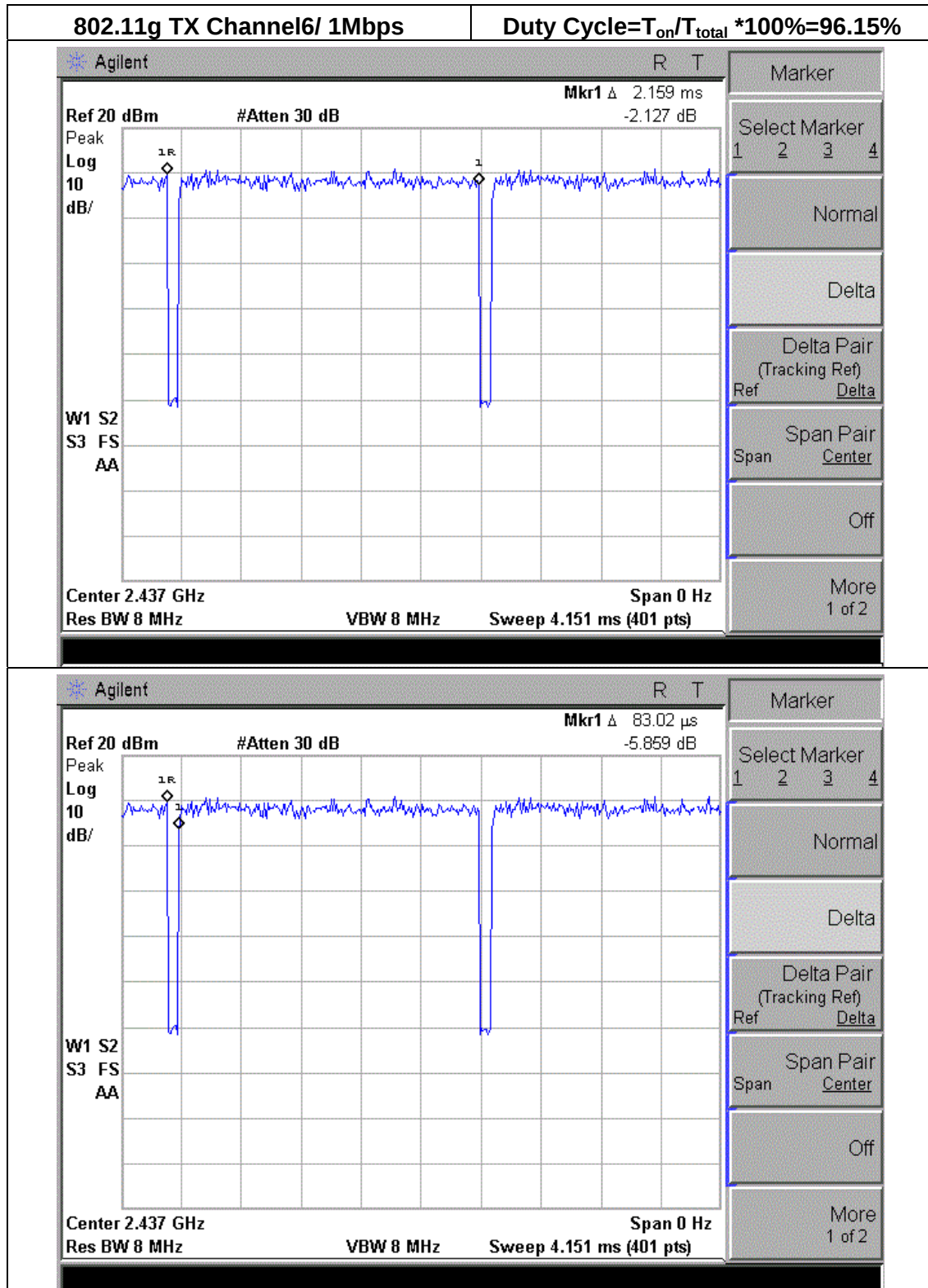
6.1.5 TEST RESULTS

EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b/g/n(20M/40M) Mode		

TX 802.11b Mode			
Test Channel	Frequency	Maximum Peak Conducted Output Power (PK)	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	15.88	30
CH06	2437	16.10	30
CH11	2462	16.28	30
TX 802.11g Mode			
CH01	2412	15.21	30
CH06	2437	15.62	30
CH11	2462	15.94	30
TX 802.11n(20) Mode			
CH01	2412	14.94	30
CH06	2437	15.11	30
CH11	2462	15.82	30
TX 802.11n(40) Mode			
CH03	2422	11.84	30
CH06	2437	11.17	30
CH09	2452	11.33	30

Duty Cycle





Agilent
R T

Ref 20 dBm #Atten 30 dB

Peak Log 10 dB/

W1 S2
S3 FS
AA

Center 2.437 GHz Res BW 8 MHz VBW 8 MHz Sweep 4.151 ms (401 pts) Span 0 Hz

Marker

Select Marker 1 2 3 4

Normal

Delta

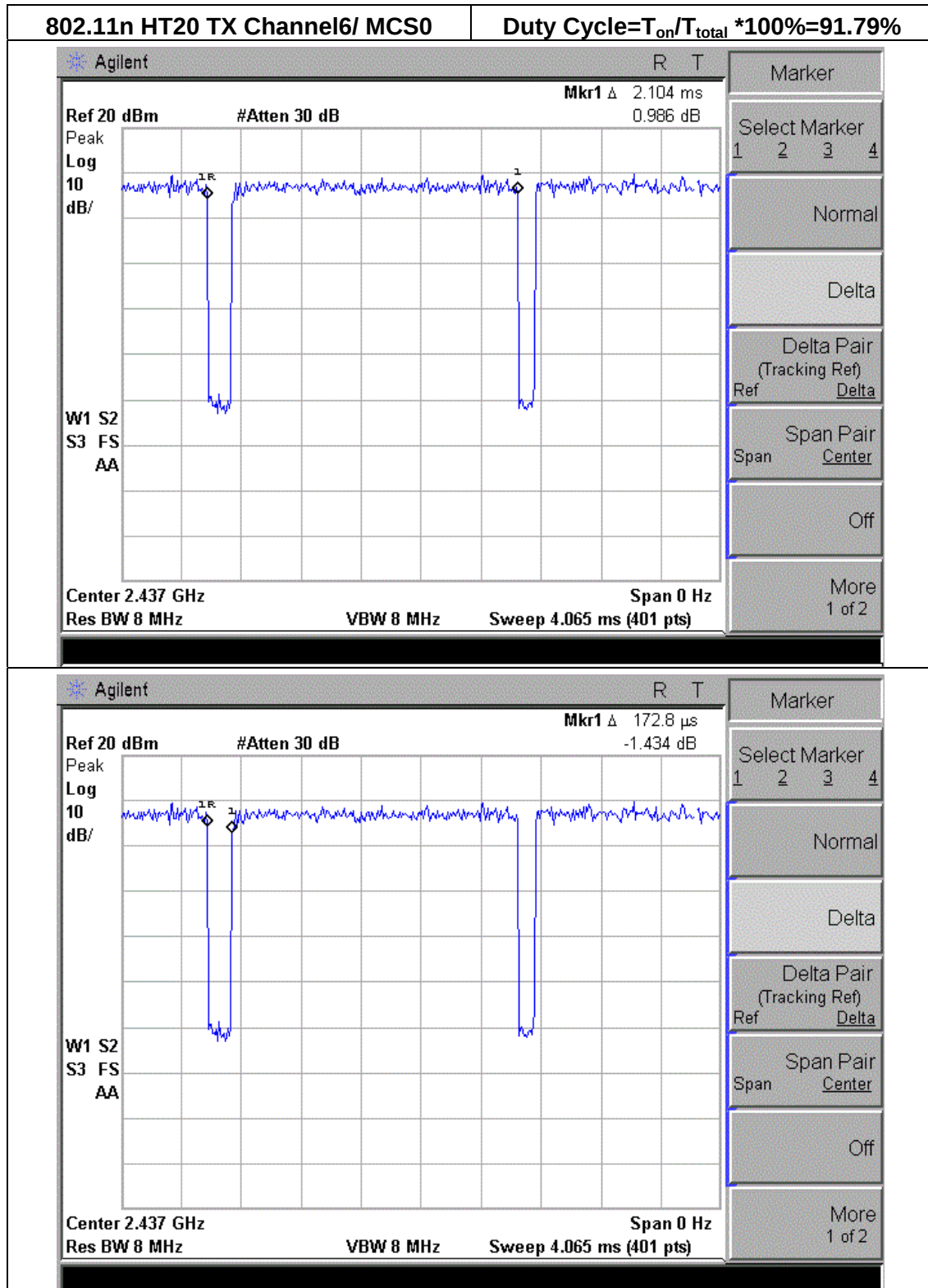
Delta Pair (Tracking Ref) Ref Delta

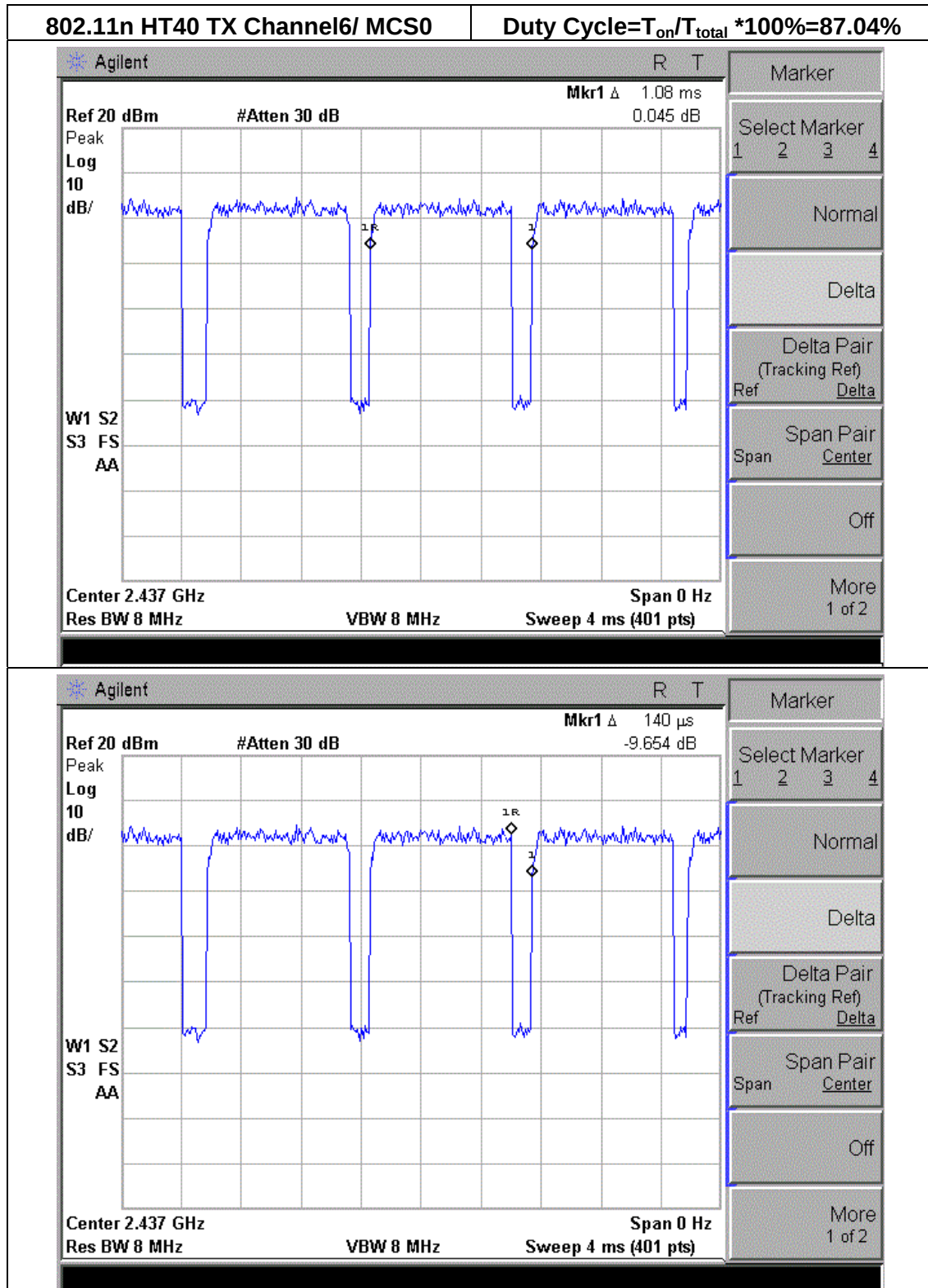
Span Pair Span Center

Off

More 1 of 2

Mkr1 Δ 83.02 μs -5.859 dB





7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

APPLICABLE STANDARD

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

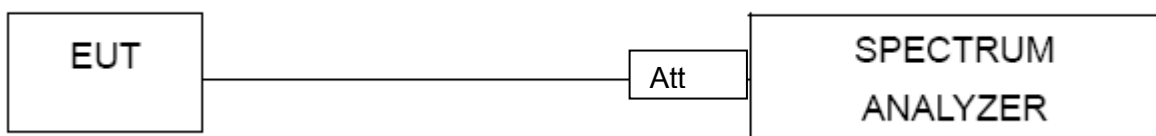
TEST PROCEDURE

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

7.1 DEVIATION FROM STANDARD

No deviation.

7.2 TEST SETUP



7.3 EUT OPERATION CONDITIONS

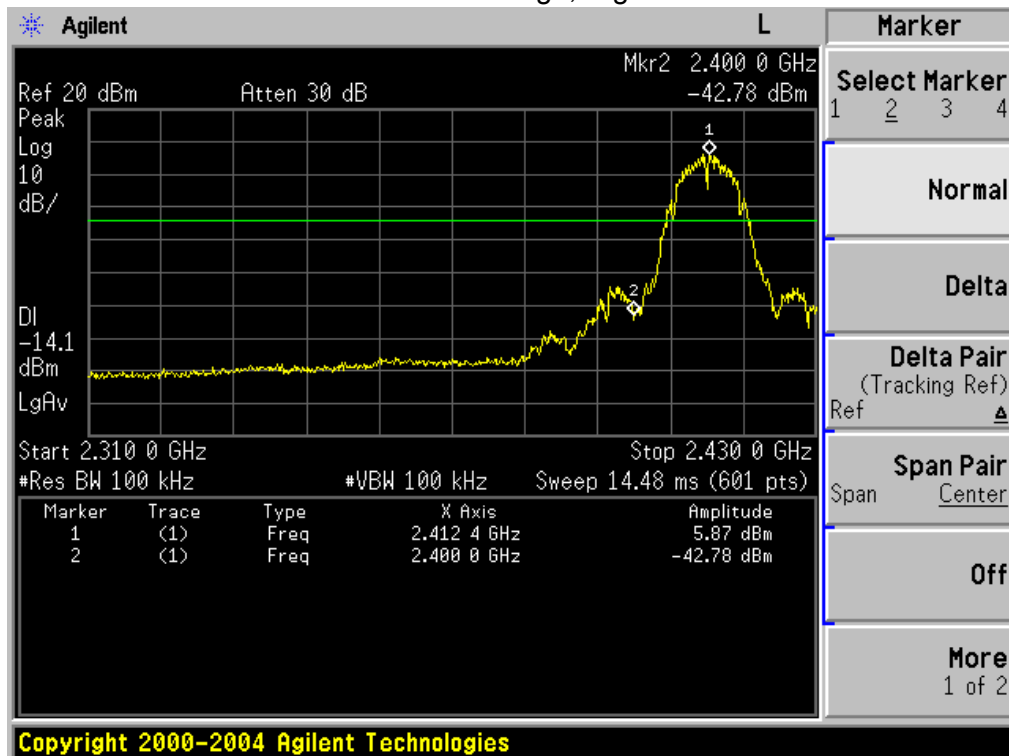
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.4 TEST RESULTS

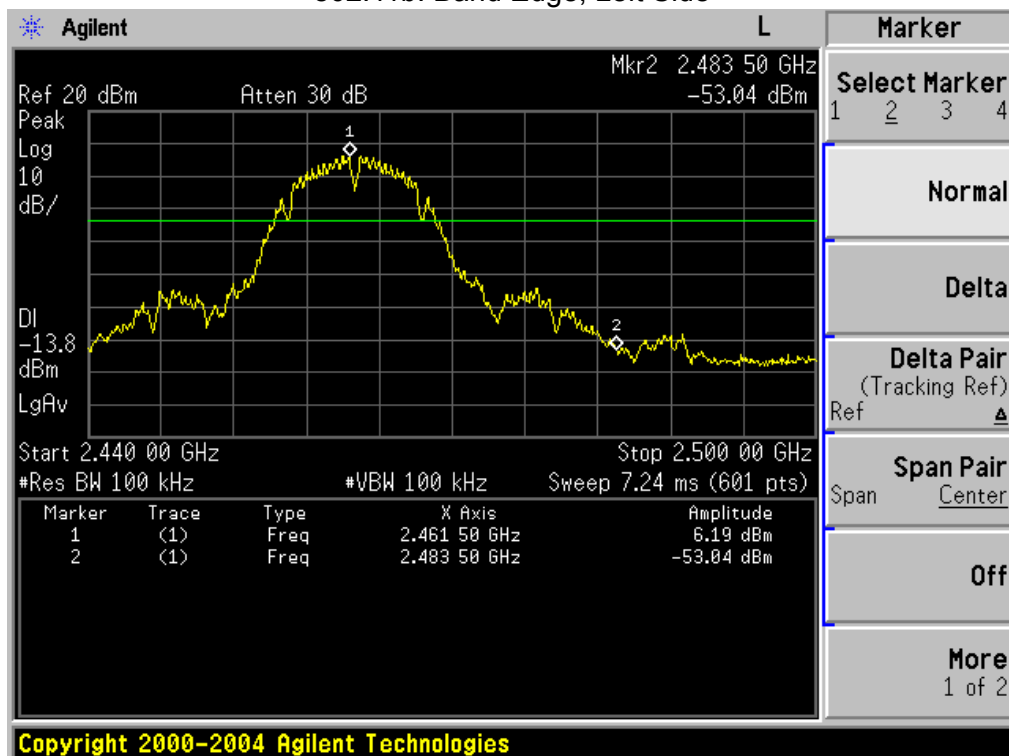
EUT :	8 Inch Full Ruggedized Tablet	Model Name :	xTablet T8500
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V

Frequency Band MHz	Delta Peak to band emission (dBc)	> Limit (dBc)	Result
802.11b mode			
2400	48.65	20	Pass
2483.5	59.23	20	Pass
802.11g mode			
2400	36.53	20	Pass
2483.5	40.66	20	Pass
802.11n-HT20 mode			
2400	37.30	20	Pass
2483.5	43.12	20	Pass
802.11n-HT40 mode			
2400	36.16	20	Pass
2483.5	36.56	20	Pass

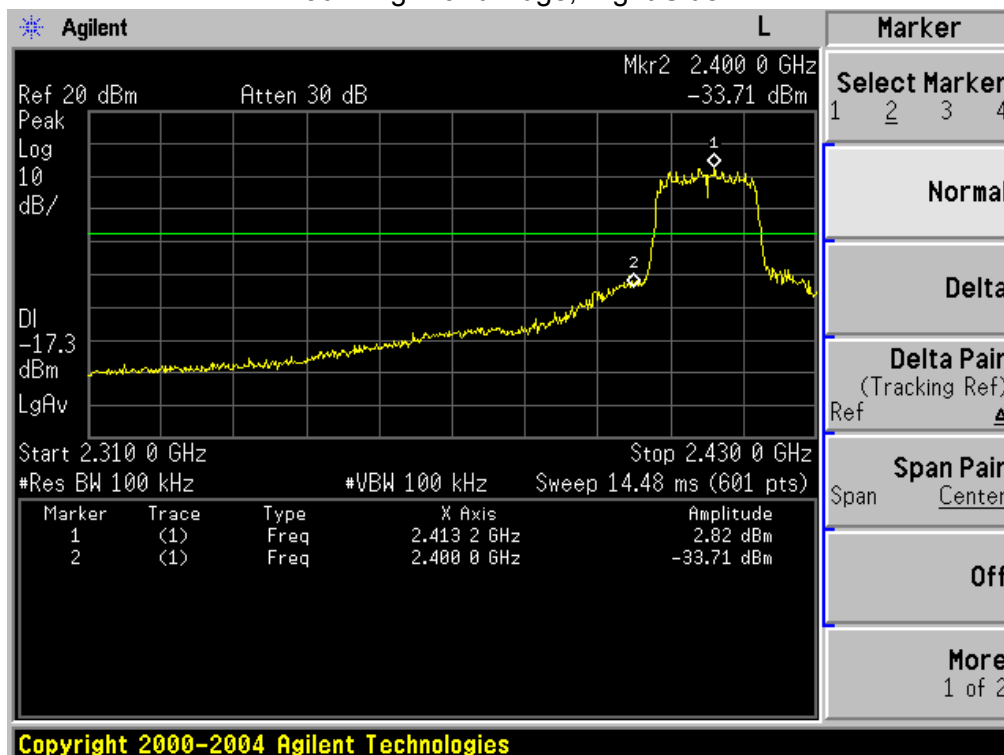
802.11b: Band Edge, Right Side



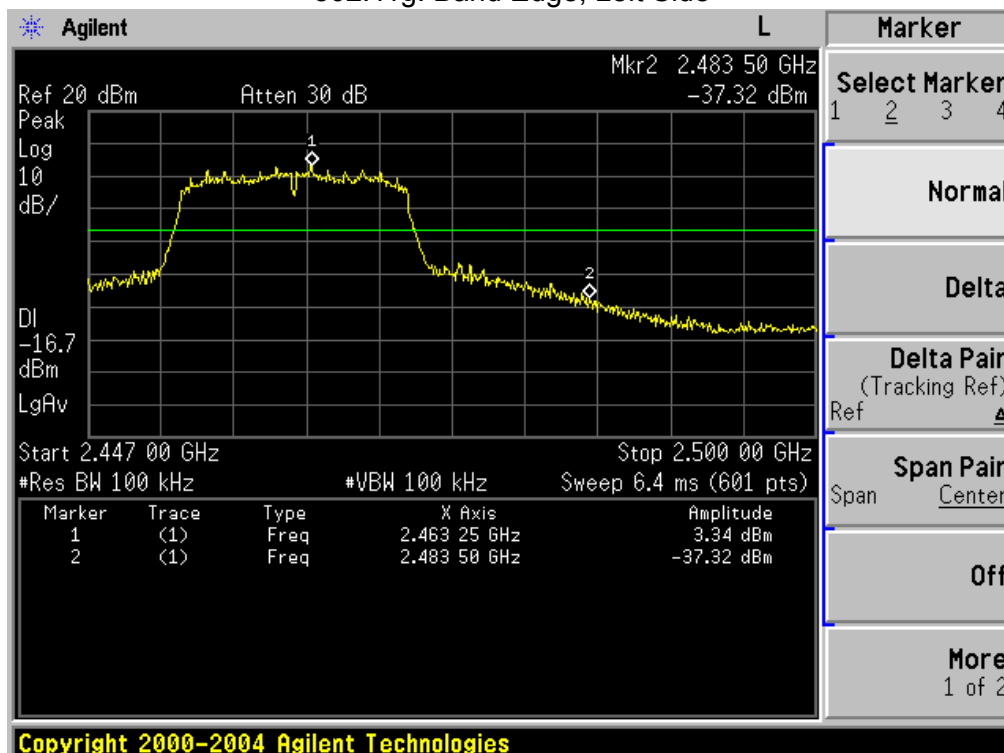
802.11b: Band Edge, Left Side



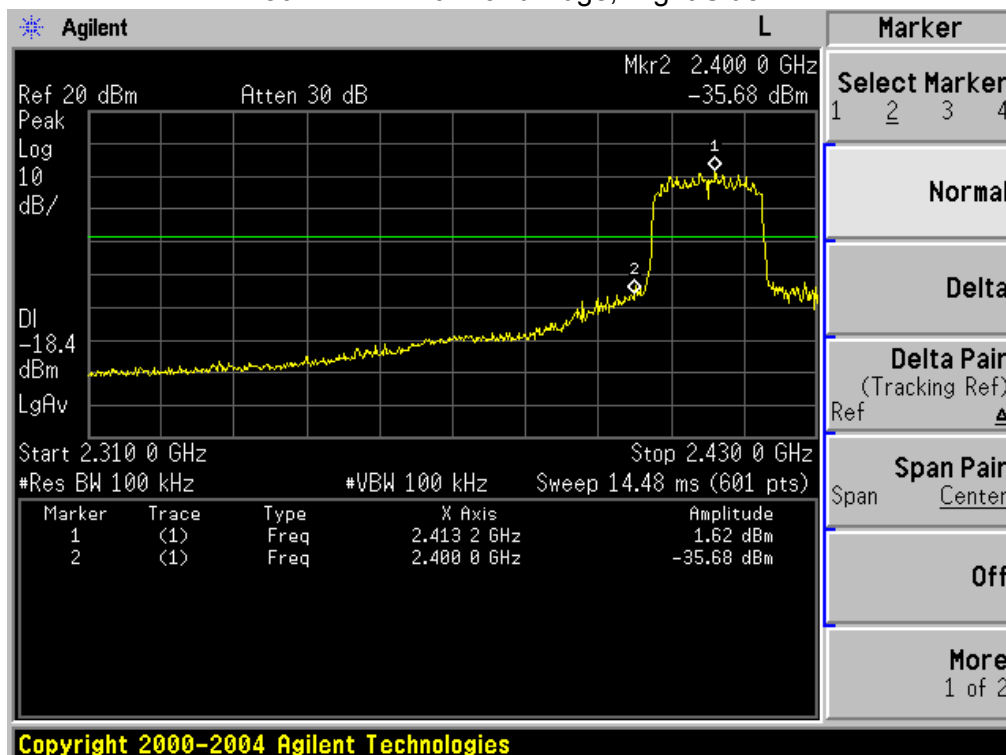
802.11g: Band Edge, Right Side



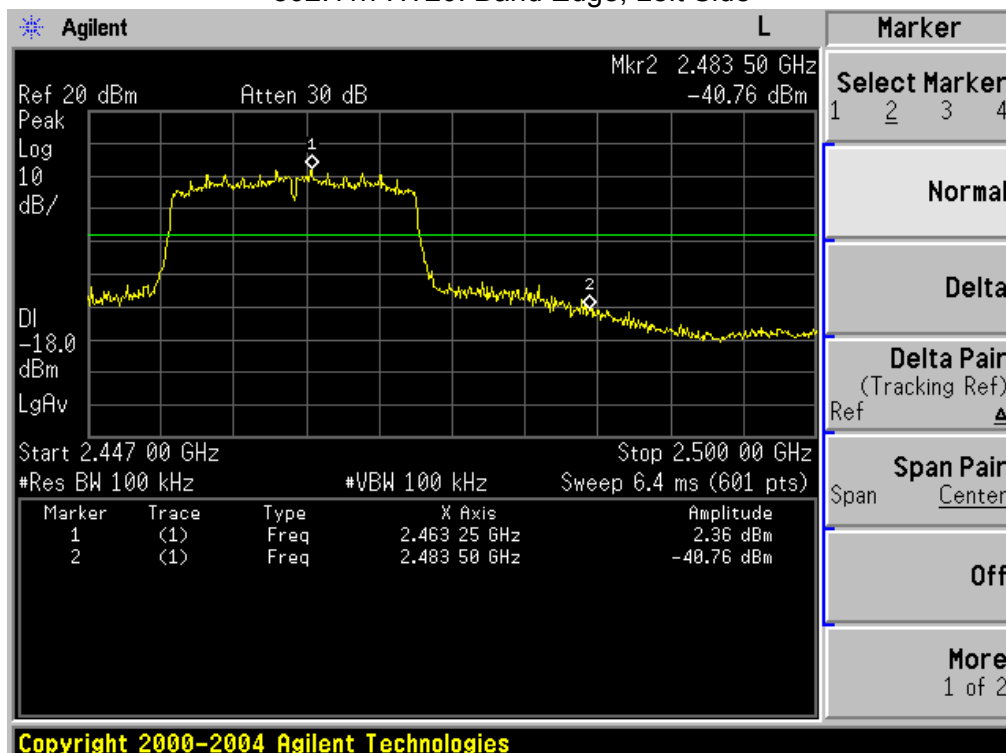
802.11g: Band Edge, Left Side



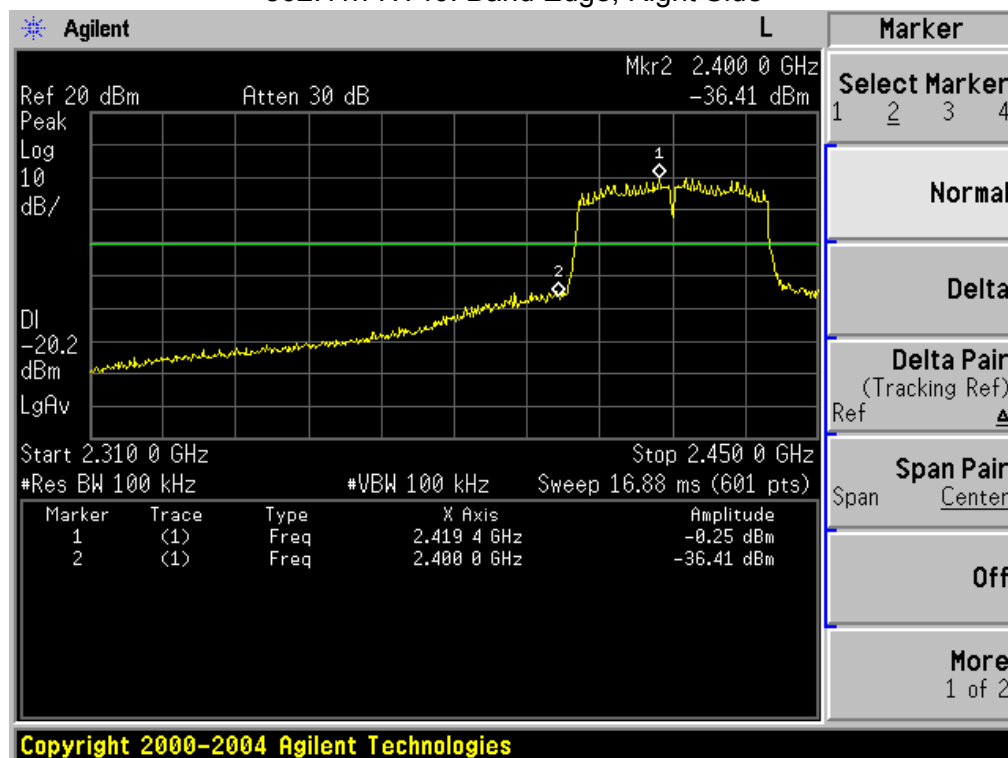
802.11n-HT20: Band Edge, Right Side



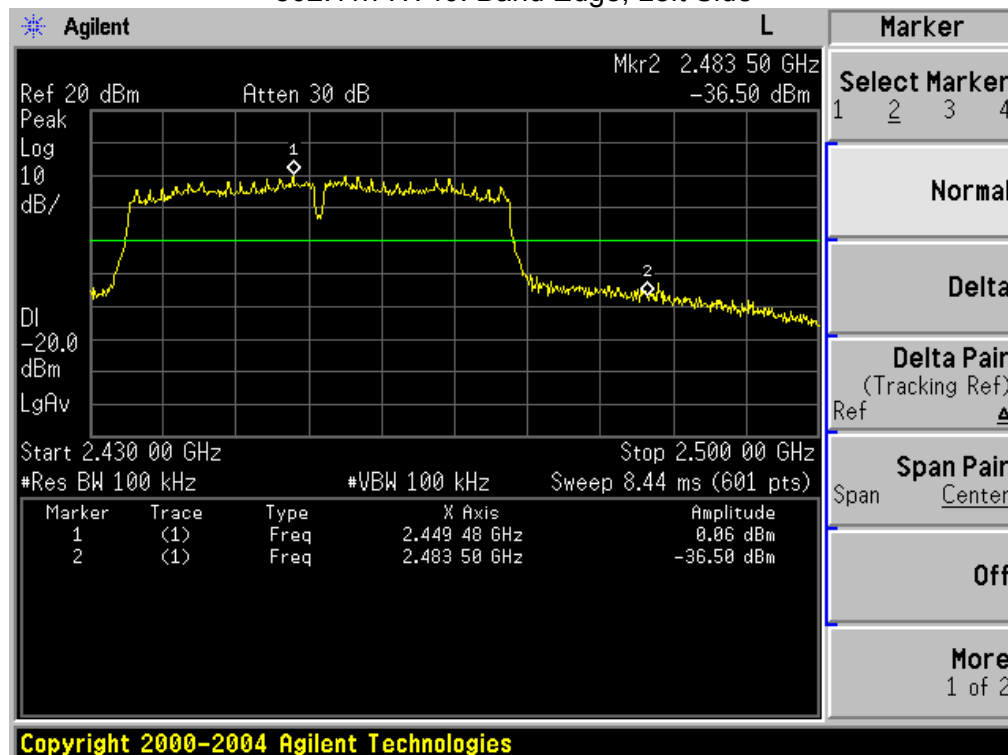
802.11n-HT20: Band Edge, Left Side



802.11n-HT40: Band Edge, Right Side



802.11n-HT40: Band Edge, Left Side



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

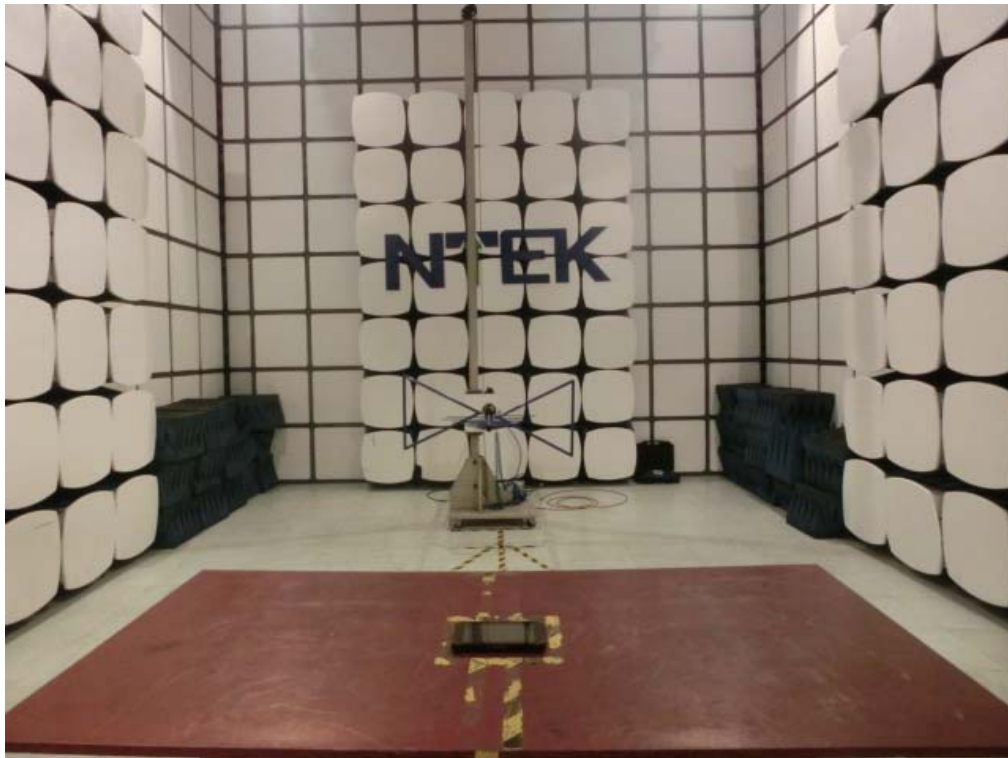
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

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

9. EUT TEST PHOTO

Radiated Measurement Photos



CONDUCTED EMISSION Photos