

FCC Radio Test Report

FCC ID: 2AK4T-MOMO8

Original Grant

Report No. : TB-FCC150912
Applicant : Shenzhen Tideway Electronics Co., Ltd
Equipment Under Test (EUT)
EUT Name : Tablet PC
Model No. : MOMO8 Quad
Series No. : MOMO8 Quad-A33, SS8TAB, V801S,
GoGEN TA 8600 Quad, TAB8
Brand Name : PLOYER, SUNSTONE, GoGEN
Receipt Date : 2016-12-07
Test Date : 2016-12-08 to 2017-02-06
Issue Date : 2017-02-07
Standards : FCC Part 15, Subpart C (15.247:2016)
Test Method : ANSI C63.10: 2013
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC and IC requirements

Test/Witness Engineer :

IVAN SU

**Approved &
Authorized**

Ray Li



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

Contents

CONTENTS.....	2
1. GENERAL INFORMATION ABOUT EUT	4
1.1 Client Information.....	4
1.2 General Description of EUT (Equipment Under Test)	4
1.3 Block Diagram Showing the Configuration of System Tested.....	5
1.4 Description of Support Units	6
1.5 Description of Test Mode.....	6
1.6 Description of Test Software Setting	7
1.7 Measurement Uncertainty	7
1.8 Test Facility.....	8
2. TEST SUMMARY.....	9
3. TEST EQUIPMENT.....	10
4. CONDUCTED EMISSION TEST	11
4.1 Test Standard and Limit.....	11
4.2 Test Setup.....	11
4.3 Test Procedure.....	11
4.4 EUT Operating Mode	12
4.5 Test Data.....	12
5. RADIATED EMISSION TEST	17
5.1 Test Standard and Limit.....	17
5.2 Test Setup.....	18
5.3 Test Procedure.....	19
5.4 EUT Operating Condition	19
5.5 Test Data.....	20
6. RESTRICTED BANDS REQUIREMENT	47
6.1 Test Standard and Limit.....	47
6.2 Test Setup.....	47
6.3 Test Procedure.....	47
6.4 EUT Operating Condition	48
6.5 Test Data.....	48
7. BANDWIDTH TEST.....	69
7.1 Test Standard and Limit.....	69
7.2 Test Setup.....	69
7.3 Test Procedure.....	69
7.4 EUT Operating Condition	69
7.5 Test Data.....	70
8. PEAK OUTPUT POWER TEST.....	78
8.1 Test Standard and Limit.....	78

8.2 Test Setup.....	78
8.3 Test Procedure.....	78
8.4 EUT Operating Condition	78
8.5 Test Data.....	79
9. POWER SPECTRAL DENSITY TEST	82
9.1 Test Standard and Limit.....	82
9.2 Test Setup.....	82
9.3 Test Procedure.....	82
9.4 EUT Operating Condition	82
9.5 Test Data.....	83
10. ANTENNA REQUIREMENT.....	91
10.1 Standard Requirement.....	91
10.2 Antenna Connected Construction.....	91

1. General Information about EUT

1.1 Client Information

Applicant : Shenzhen Tideway Electronics Co., Ltd
Address : 5F, 8#Building, Yusheng Industrial Park, Gushu, Bao'an District, Shenzhen, Guangdong, China
Manufacturer : Shenzhen Tideway Electronics Co., Ltd
Address : 5F, 8#Building, Yusheng Industrial Park, Gushu, Bao'an District, Shenzhen, Guangdong, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Tablet PC
Models No.	:	MOMO8 Quad, MOMO8 Quad-A33, SS8TAB, V801S, GoGEN TA 8600 Quad, TAB8
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.
Product Description	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
	Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40):9 channels see note(3)
	RF Output Power:	802.11b: 9.27 dBm 802.11g: 8.97 dBm 802.11n (HT20): 8.88 dBm 802.11n (HT40): 8.76 dBm
	Antenna Gain:	2 dBi PIFA Antenna
	Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM, 64QAM)
	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
Power Supply	:	DC power by USB cable. DC power by Li-ion battery.
Power Rating	:	DC 5.0V by USB cable. DC 3.7V by Li-ion battery.
Connecting I/O Port(S)	:	Please refer to the User's Manual

Note:

- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v03r05.

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

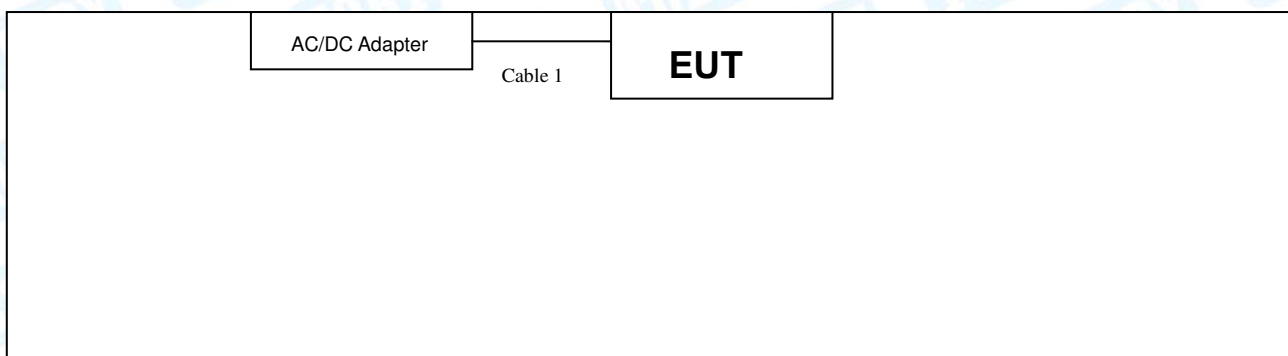
(3) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		
Note: CH 01~CH 11 for 802.11b/g/n(HT20) CH 03~CH 09 for 802.11n(HT40)					

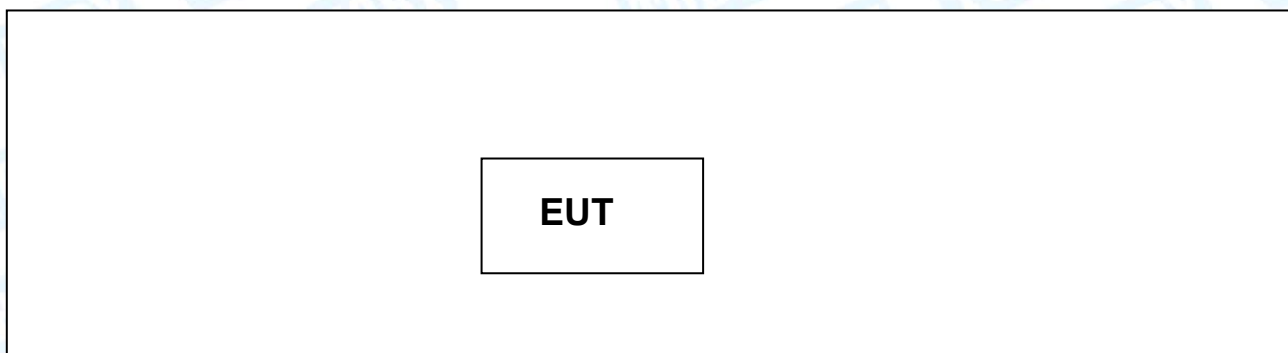
(4) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

USB Charging with TX Mode



TX Mode



1.4 Description of Support Units

Equipment Information				
Name	Model	FCC ID/VOC	Manufacturer	Used “√”
AC/DC Adapter	TEKA012	VOC	TEKA	√
AC/DC Adapter: Input:100~240V, 50/60Hz, 0.2A. Output: 5V, 1A				
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	YES	YES	0.8M	

1.5 Description of Test Mode

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 follow was evaluated respectively.

For Conducted Test	
Final Test Mode	Description
Mode 1	USB Charging with TX B Mode

For Radiated Test	
Final Test Mode	Description
Mode 2	TX Mode B Mode Channel 01/06/11
Mode 3	TX Mode G Mode Channel 01/06/11
Mode 4	TX Mode N(HT20) Mode Channel 01/06/11
Mode 5	TX Mode N(HT40) Mode Channel 03/06/09

Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, Middle, lowest available channels, and the worst case data rate as follows:

- 802.11b Mode: CCK (1 Mbps)
- 802.11g Mode: OFDM (6 Mbps)
- 802.11n (HT20) Mode: MCS 0 (6.5 Mbps)
- 802.11n (HT40) Mode: MCS 0 (13 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power

mode was programmed by the customer.

- (3) The EUT is considered a portable unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

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

Test Software Version	WLAN Test Tool		
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	16	16	15
IEEE 802.11g OFDM	21	21	20
IEEE 802.11n (HT20)	20	20	22
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	27	27	27

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, 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 %.

Test Item	Parameters	Expanded Uncertainty (U_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	± 3.42 dB ± 3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1				
Standard Section		Test Item	Judgment	Remark
FCC	IC			
15.203	/	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Band Edge	PASS	N/A
15.247(d)& 15.209	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A
Note: “/” for no requirement for this test item. N/A is an abbreviation for Not Applicable.				

3. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
LISN	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 20, 2016	Mar. 19, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 20, 2016	Mar. 19, 2017
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 19, 2016	Mar. 18, 2017
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 19, 2016	Mar. 18, 2017
Loop Antenna	Laplace instrument	RF300	0701	Mar. 19, 2016	Mar. 18, 2017
Pre-amplifier	Sonoma	310N	185903	Mar. 20, 2016	Mar. 19, 2017
Pre-amplifier	HP	8447B	3008A00849	Mar. 26, 2016	Mar. 25, 2017
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 26, 2016	Mar. 25, 2017
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
Spectrum Analyzer	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
Power Meter	Anritsu	ML2495A	25406005	Jul. 22, 2016	Jul. 21, 2017
Power Sensor	Anritsu	ML2411B	25406005	Jul. 22, 2016	Jul. 21, 2017

4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1 Test Standard

FCC Part 15.207

4.1.2 Test Limit

Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

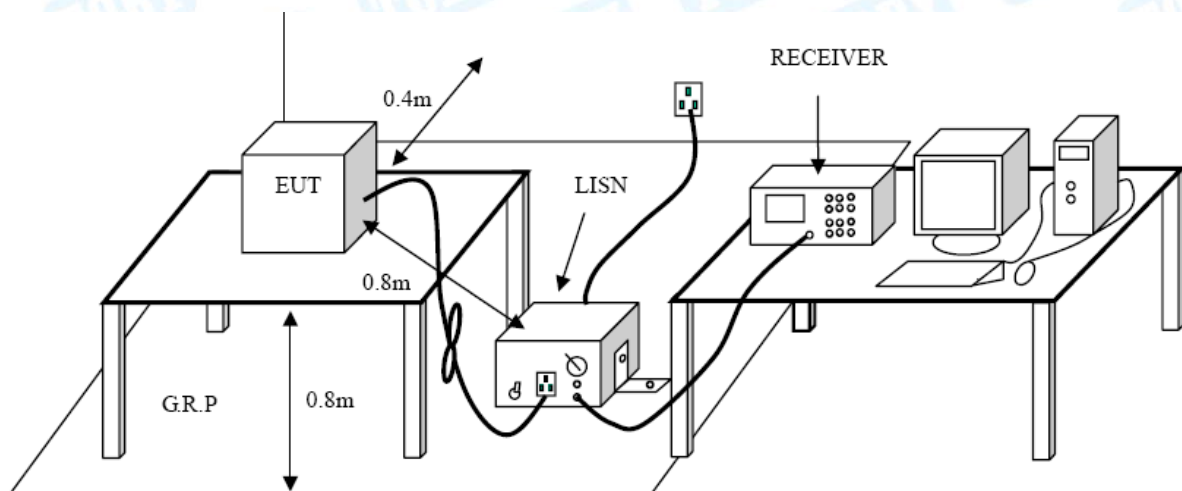
Notes:

(1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 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.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

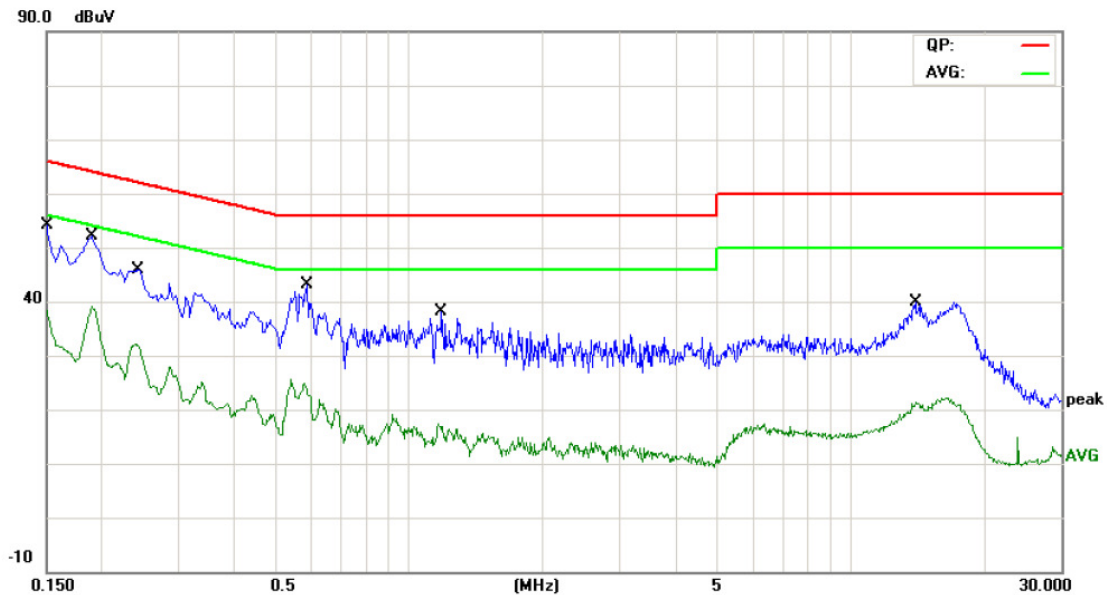
4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please see the next page.

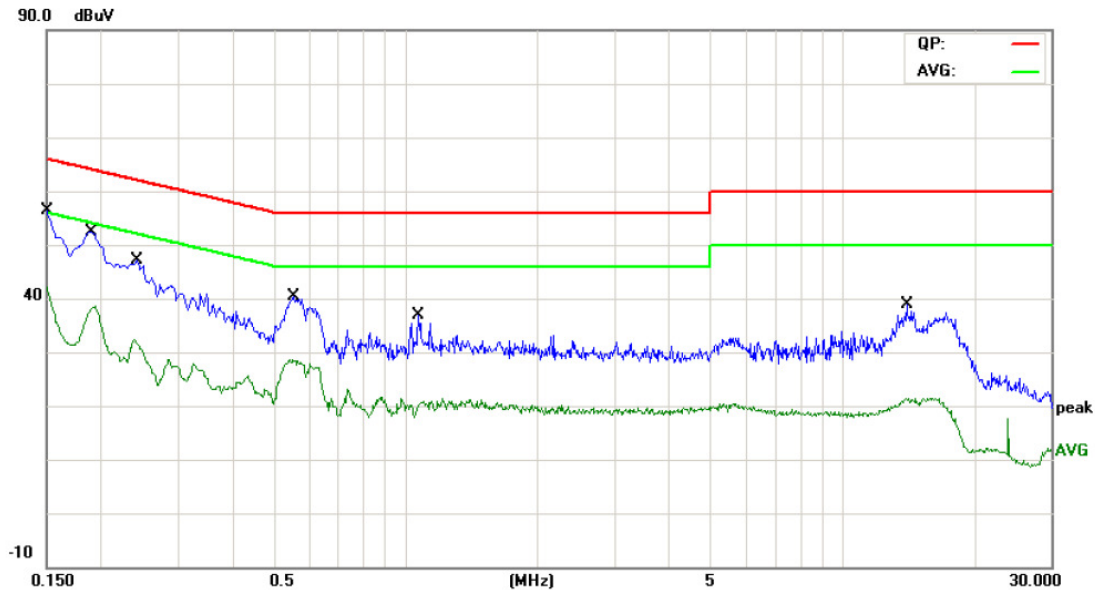
EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	USB Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1500	38.78	9.92	48.70	65.99	-17.29	QP
2		0.1500	24.96	9.92	34.88	55.99	-21.11	AVG
3	*	0.1900	39.18	10.00	49.18	64.03	-14.85	QP
4		0.1900	27.86	10.00	37.86	54.03	-16.17	AVG
5		0.2420	29.91	10.02	39.93	62.02	-22.09	QP
6		0.2420	16.58	10.02	26.60	52.02	-25.42	AVG
7		0.5860	25.31	10.06	35.37	56.00	-20.63	QP
8		0.5860	13.39	10.06	23.45	46.00	-22.55	AVG
9		1.1820	18.84	10.06	28.90	56.00	-27.10	QP
10		1.1820	5.73	10.06	15.79	46.00	-30.21	AVG
11		14.0260	20.96	10.24	31.20	60.00	-28.80	QP
12		14.0260	8.64	10.24	18.88	50.00	-31.12	AVG

Emission Level= Read Level+ Correct Factor

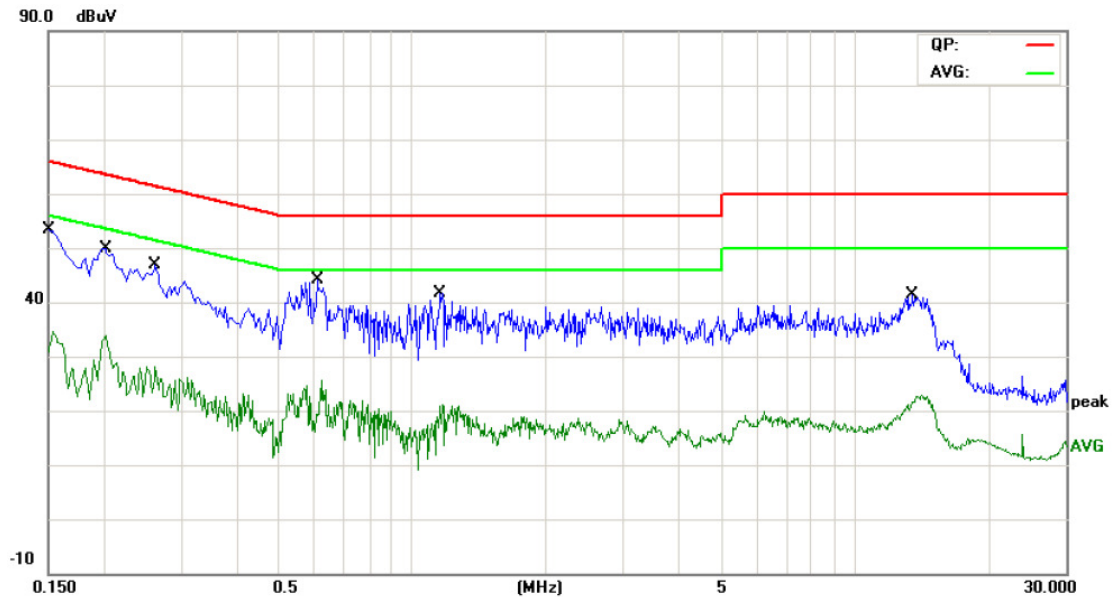
EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	USB Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1500	41.31	10.12	51.43	65.99	-14.56	QP
2		0.1500	29.19	10.12	39.31	55.99	-16.68	AVG
3		0.1900	39.06	10.12	49.18	64.03	-14.85	QP
4		0.1900	27.66	10.12	37.78	54.03	-16.25	AVG
5		0.2420	33.30	10.11	43.41	62.02	-18.61	QP
6		0.2420	21.01	10.11	31.12	52.02	-20.90	AVG
7		0.5540	27.18	10.02	37.20	56.00	-18.80	QP
8		0.5540	18.73	10.02	28.75	46.00	-17.25	AVG
9		1.0700	16.62	10.15	26.77	56.00	-29.23	QP
10		1.0700	8.25	10.15	18.40	46.00	-27.60	AVG
11		14.0180	19.82	10.08	29.90	60.00	-30.10	QP
12		14.0180	10.26	10.08	20.34	50.00	-29.66	AVG

Emission Level= Read Level+ Correct Factor

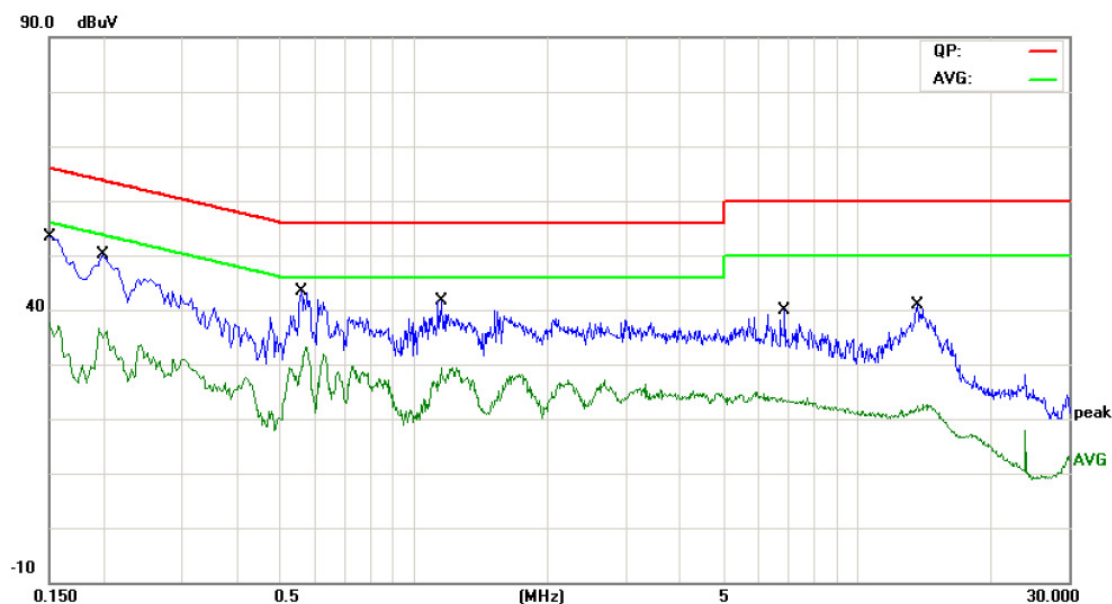
EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Line		
Test Mode:	USB Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1500	41.11	9.92	51.03	65.99	-14.96	QP
2		0.1500	24.78	9.92	34.70	55.99	-21.29	AVG
3		0.2020	36.40	10.02	46.42	63.52	-17.10	QP
4		0.2020	20.36	10.02	30.38	53.52	-23.14	AVG
5		0.2620	30.61	10.02	40.63	61.36	-20.73	QP
6		0.2620	15.06	10.02	25.08	51.36	-26.28	AVG
7		0.6100	27.73	10.07	37.80	56.00	-18.20	QP
8		0.6100	9.60	10.07	19.67	46.00	-26.33	AVG
9		1.1580	23.85	10.06	33.91	56.00	-22.09	QP
10		1.1580	8.52	10.06	18.58	46.00	-27.42	AVG
11		13.4980	22.57	10.23	32.80	60.00	-27.20	QP
12		13.4980	8.60	10.23	18.83	50.00	-31.17	AVG

Emission Level= Read Level+ Correct Factor

EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Neutral		
Test Mode:	USB Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1500	41.82	10.12	51.94	65.99	-14.05	QP
2		0.1500	28.57	10.12	38.69	55.99	-17.30	AVG
3		0.1980	35.33	10.12	45.45	63.69	-18.24	QP
4		0.1980	24.35	10.12	34.47	53.69	-19.22	AVG
5		0.5580	28.65	10.02	38.67	56.00	-17.33	QP
6	*	0.5580	22.10	10.02	32.12	46.00	-13.88	AVG
7		1.1580	22.83	10.14	32.97	56.00	-23.03	QP
8		1.1580	16.67	10.14	26.81	46.00	-19.19	AVG
9		6.8620	19.10	10.06	29.16	60.00	-30.84	QP
10		6.8620	12.41	10.06	22.47	50.00	-27.53	AVG
11		13.6580	20.50	10.09	30.59	60.00	-29.41	QP
12		13.6580	10.75	10.09	20.84	50.00	-29.16	AVG

Emission Level= Read Level+ Correct Factor

5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz)	Field Strength (microvolt/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

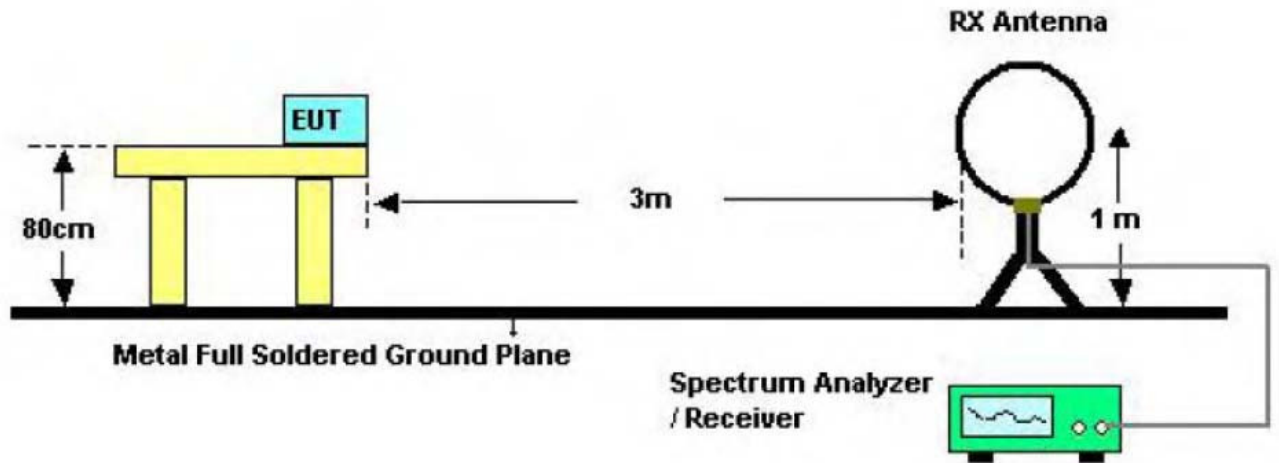
Radiated Emission Limit (Above 1000MHz)

Frequency (MHz)	Class A (dBuV/m)(at 3 M)		Class B (dBuV/m)(at 3 M)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

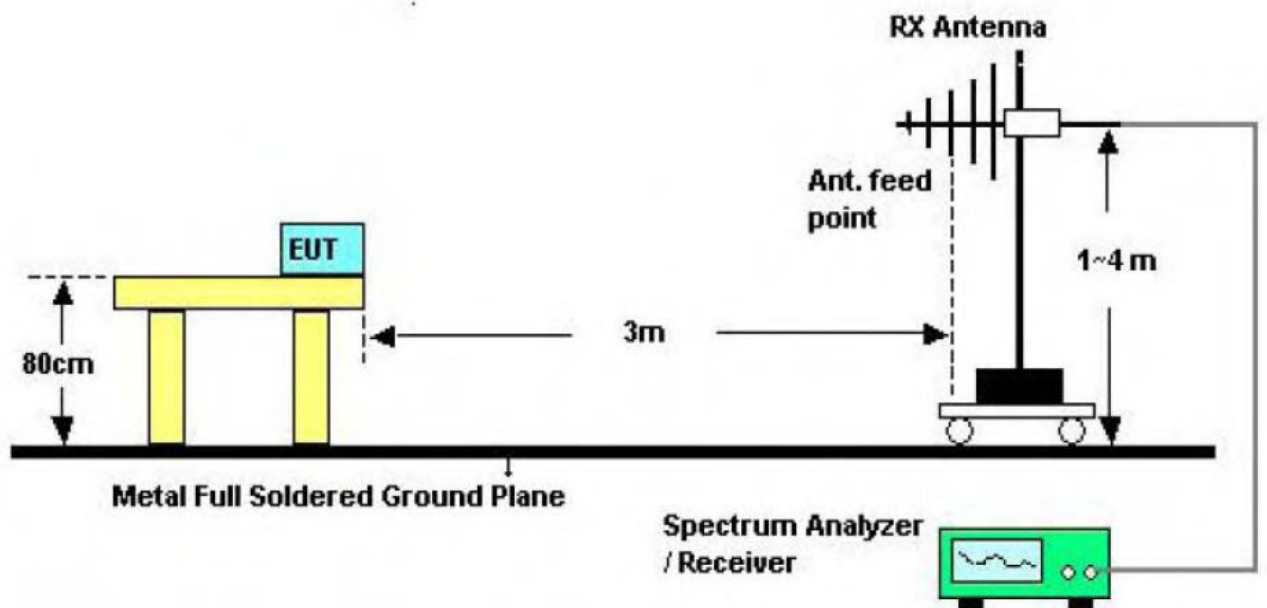
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

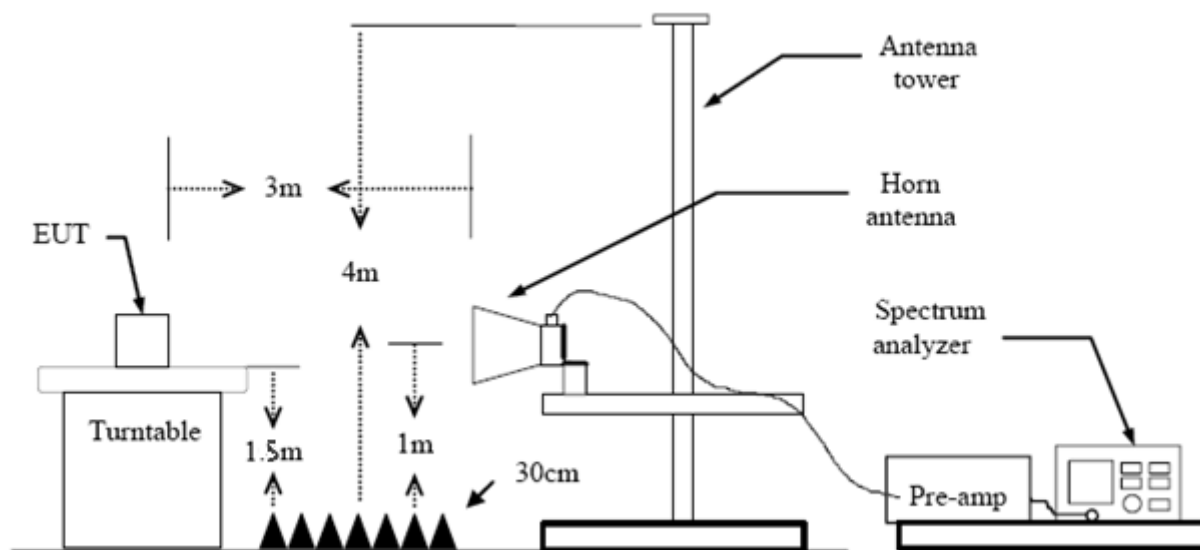
5.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

5.3 Test Procedure

- (1) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) 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.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (7) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.

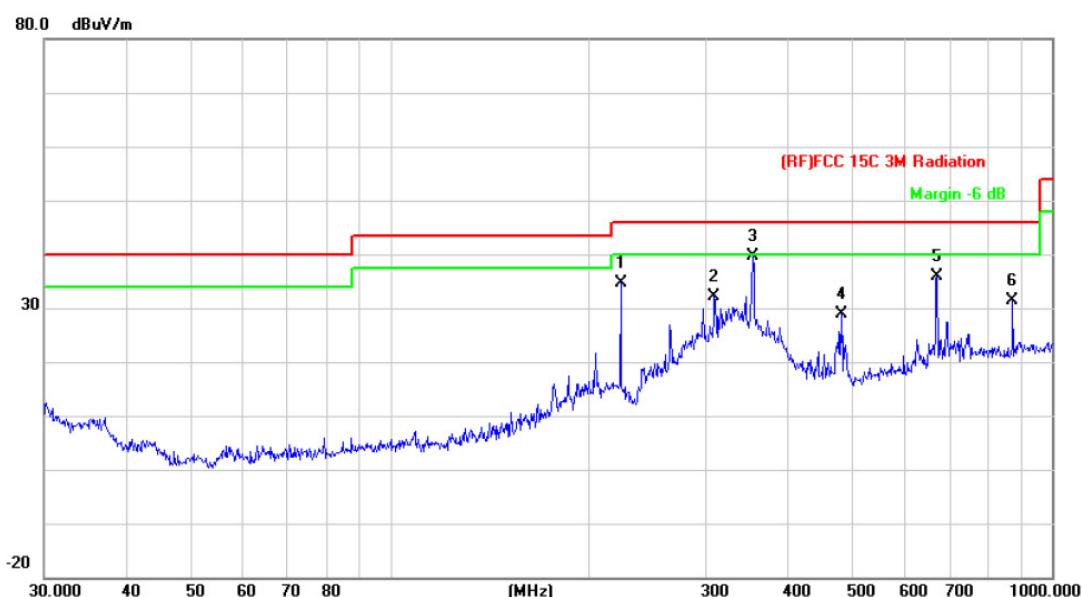
9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

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

30MHz~1GHz

EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		

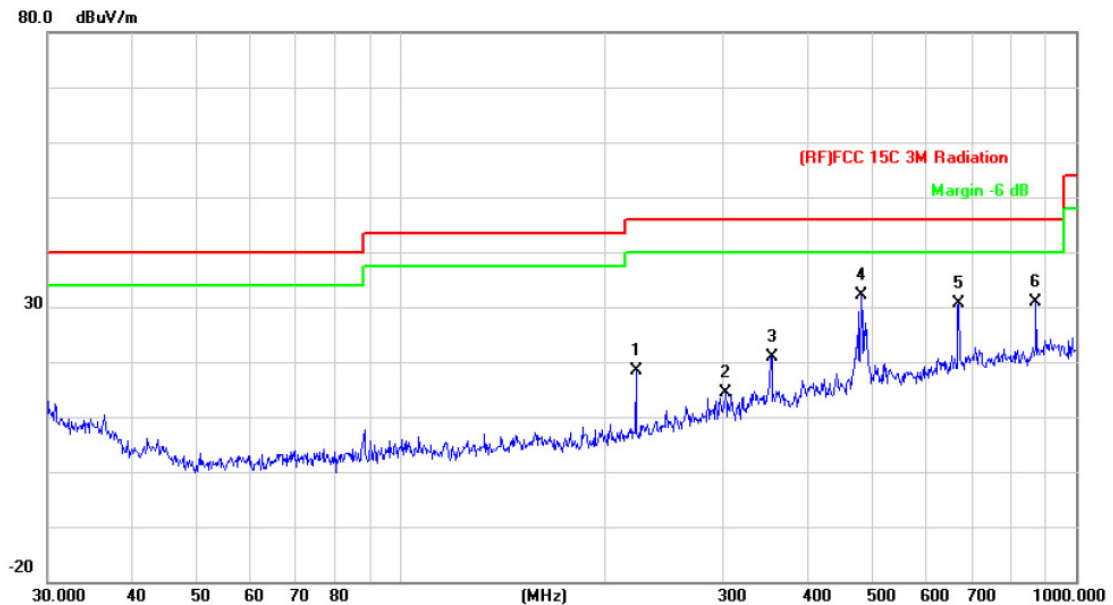


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		222.9502	53.54	-18.99	34.55	46.00	-11.45	peak
2		308.9126	48.53	-16.31	32.22	46.00	-13.78	peak
3	*	352.9433	53.76	-14.14	39.62	46.00	-6.38	peak
4		480.5276	40.13	-11.13	29.00	46.00	-17.00	peak
5		670.4893	42.64	-6.86	35.78	46.00	-10.22	peak
6		872.1832	36.11	-4.71	31.40	46.00	-14.60	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		



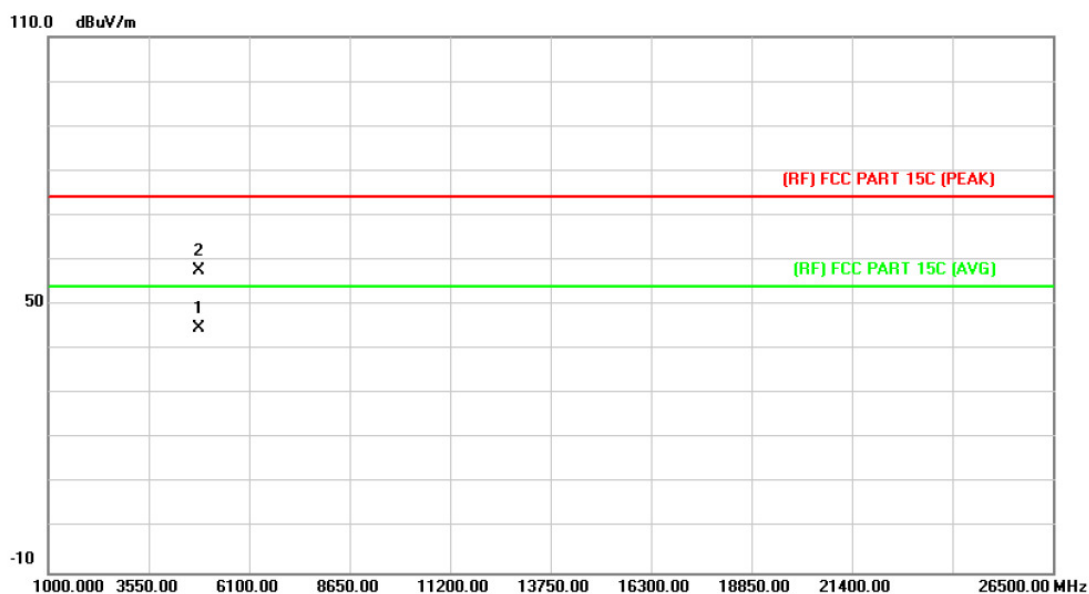
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		222.9502	37.27	-18.99	18.28	46.00	-27.72	peak
2		302.4812	30.83	-16.56	14.27	46.00	-31.73	peak
3		354.1831	35.14	-14.14	21.00	46.00	-25.00	peak
4	*	480.5276	43.37	-11.13	32.24	46.00	-13.76	peak
5		670.4893	37.51	-6.86	30.65	46.00	-15.35	peak
6		872.1832	35.67	-4.71	30.96	46.00	-15.04	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

Above 1GHz

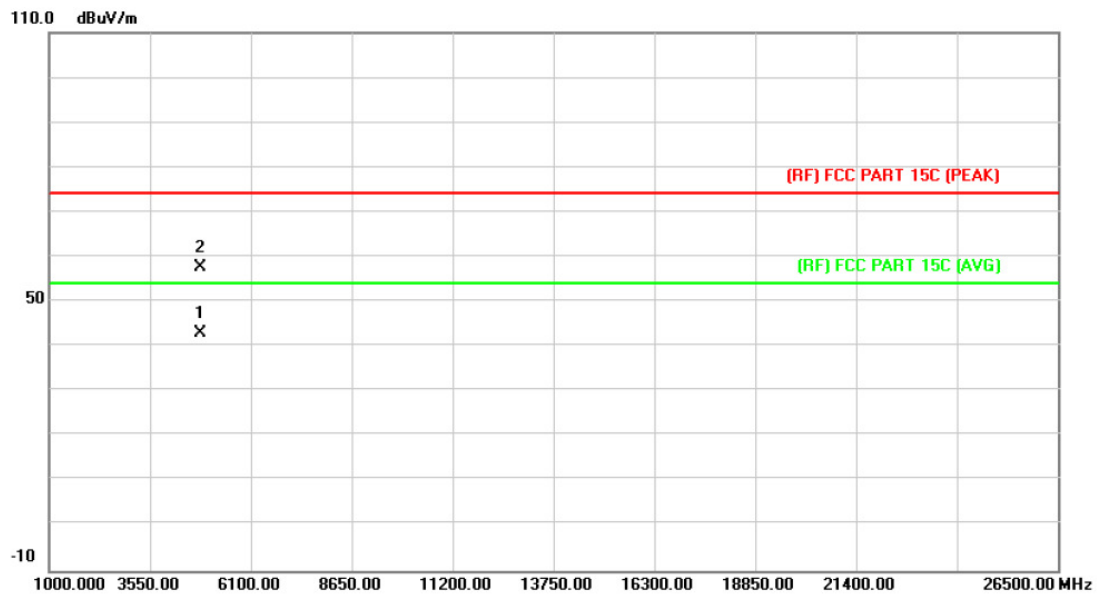
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.829	31.22	13.56	44.78	54.00	-9.22	AVG
2		4824.192	44.15	13.56	57.71	74.00	-16.29	peak

Emission Level= Read Level+ Correct Factor

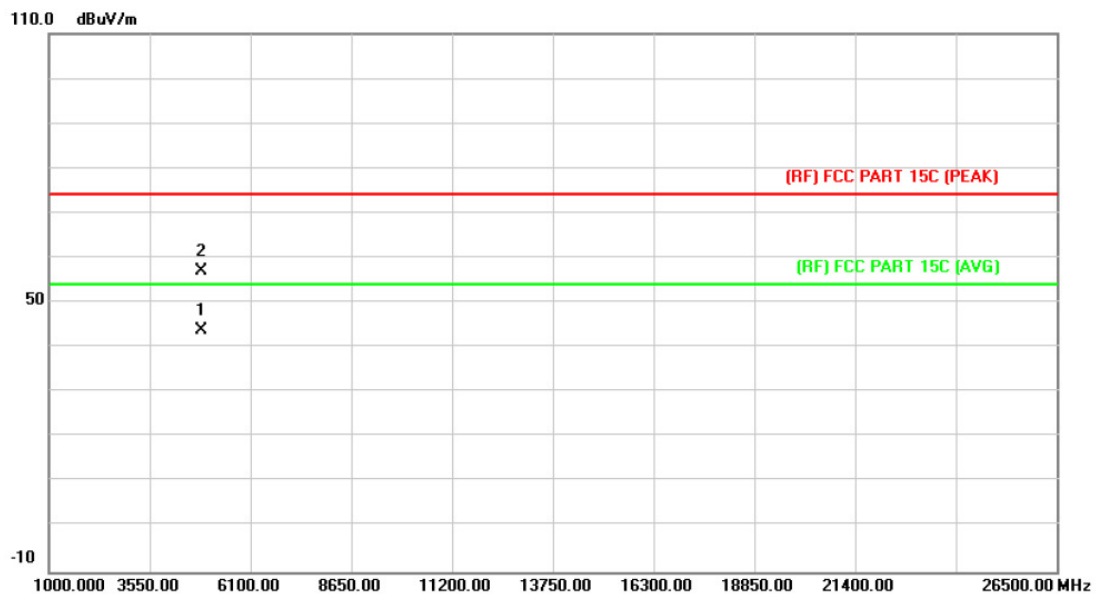
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.042	29.49	13.56	43.05	54.00	-10.95	AVG
2		4824.963	44.22	13.56	57.78	74.00	-16.22	peak

Emission Level= Read Level+ Correct Factor

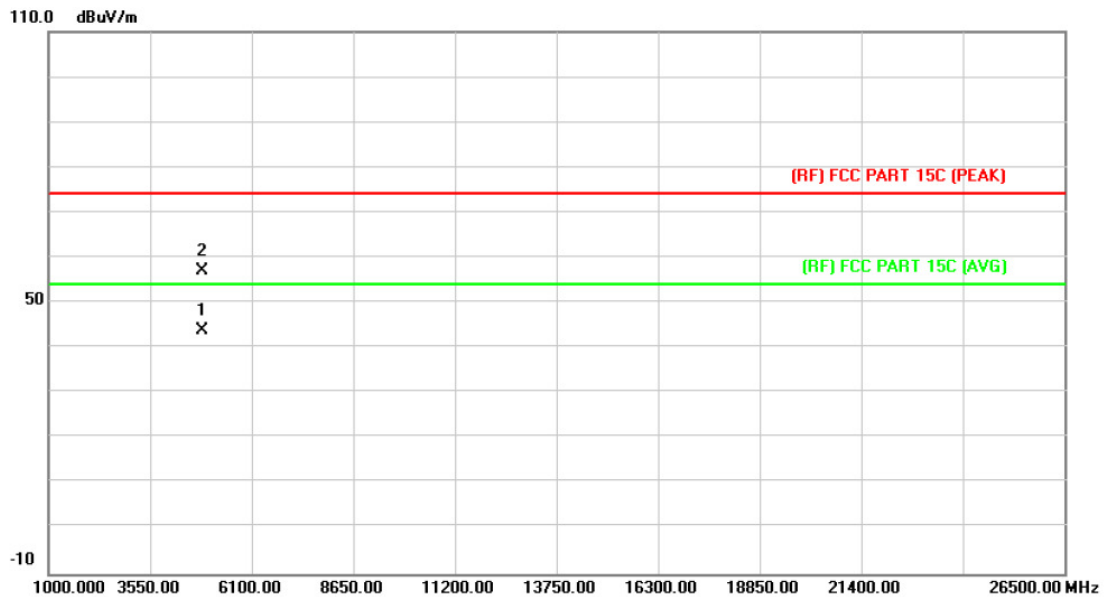
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4872.665	29.92	13.85	43.77	54.00	-10.23	AVG
2		4873.046	43.17	13.86	57.03	74.00	-16.97	peak

Emission Level= Read Level+ Correct Factor

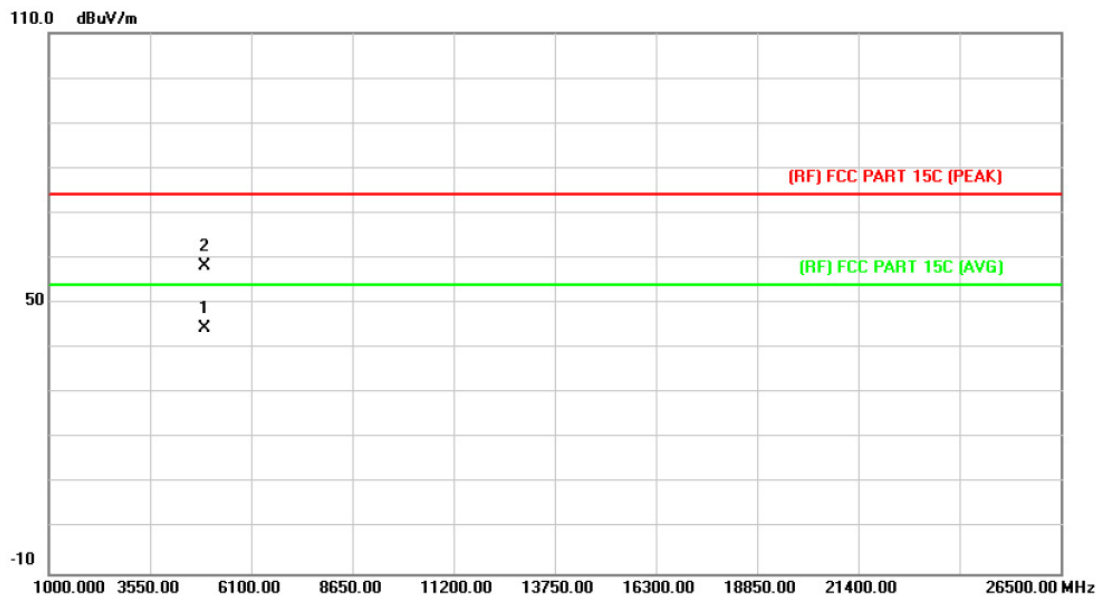
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.853	29.94	13.86	43.80	54.00	-10.20	AVG
2		4875.272	43.25	13.87	57.12	74.00	-16.88	peak

Emission Level= Read Level+ Correct Factor

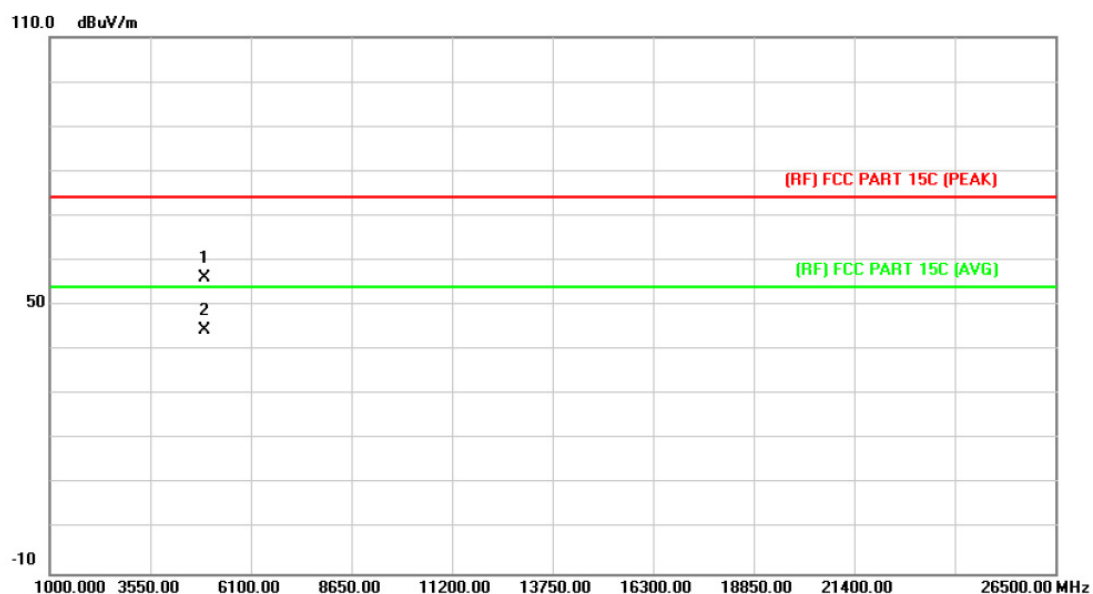
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.253	30.36	14.15	44.51	54.00	-9.49	AVG
2		4924.246	44.10	14.15	58.25	74.00	-15.75	peak

Emission Level= Read Level+ Correct Factor

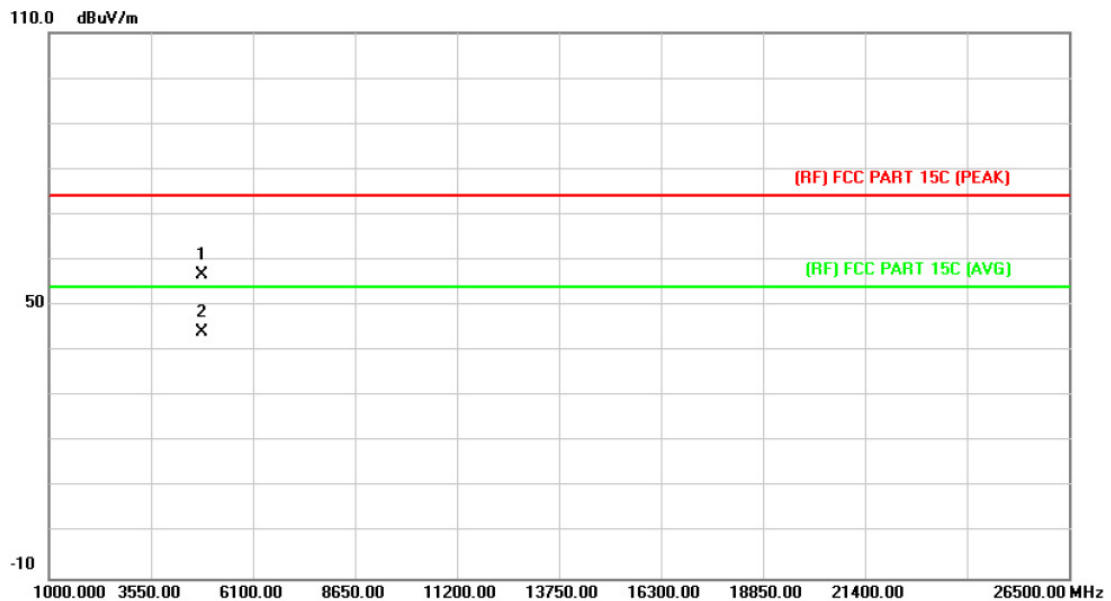
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.540	42.07	14.15	56.22	74.00	-17.78	peak
2	*	4925.365	30.28	14.16	44.44	54.00	-9.56	AVG

Emission Level= Read Level+ Correct Factor

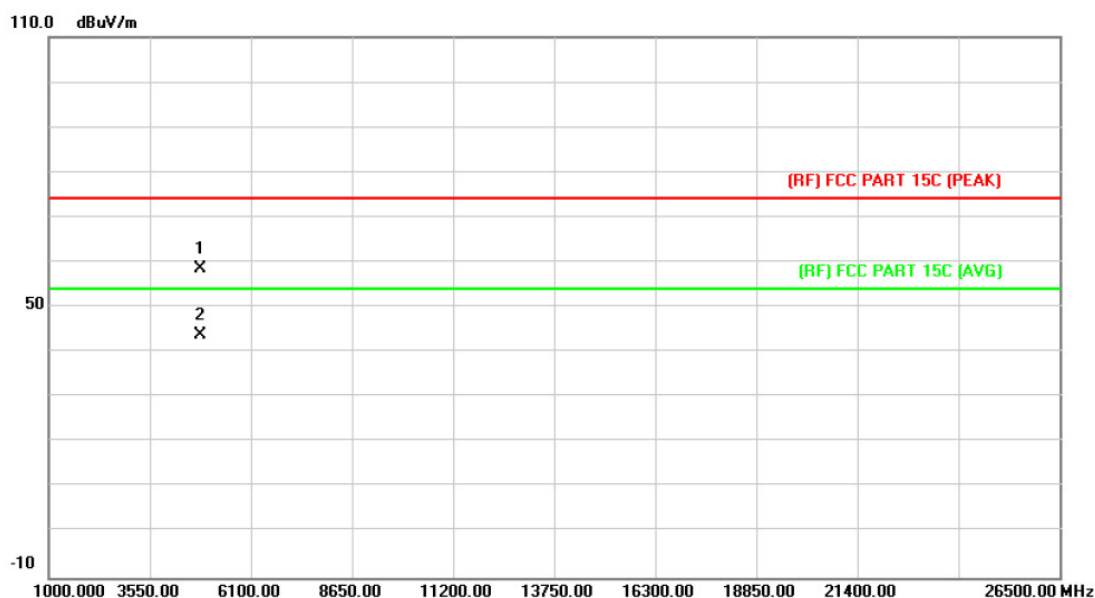
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.586	43.16	13.56	56.72	74.00	-17.28	peak
2	*	4824.108	30.52	13.56	44.08	54.00	-9.92	AVG

Emission Level= Read Level+ Correct Factor

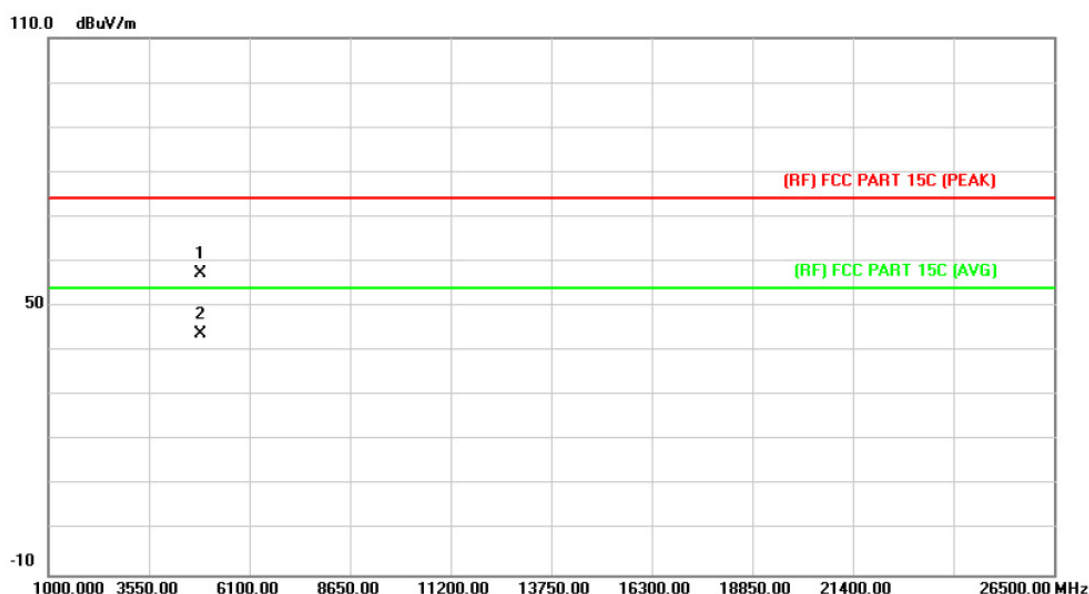
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.285	45.09	13.56	58.65	74.00	-15.35	peak
2	*	4824.664	30.37	13.56	43.93	54.00	-10.07	AVG

Emission Level= Read Level+ Correct Factor

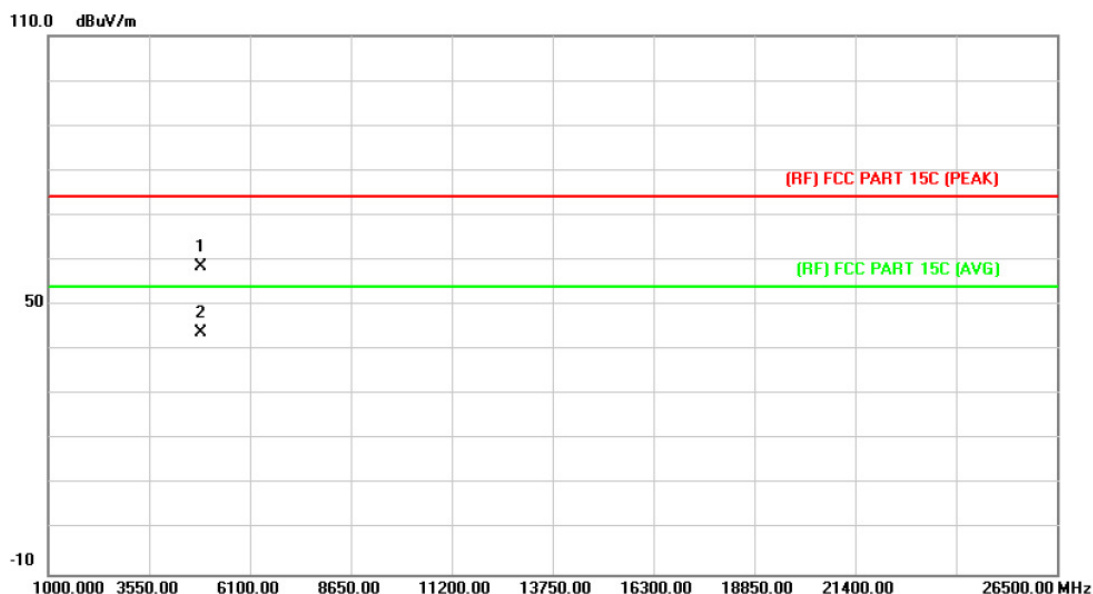
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4874.486	43.37	13.86	57.23	74.00	-16.77	peak
2	*	4875.290	30.09	13.87	43.96	54.00	-10.04	AVG

Emission Level= Read Level+ Correct Factor

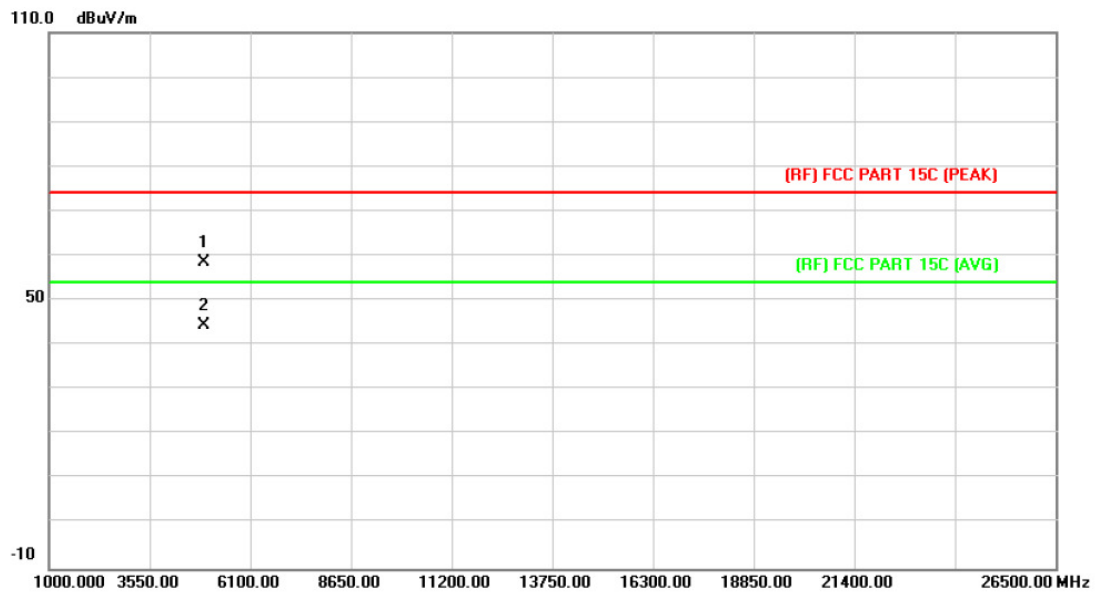
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.643	44.80	13.86	58.66	74.00	-15.34	peak
2	*	4874.336	30.09	13.86	43.95	54.00	-10.05	AVG

Emission Level= Read Level+ Correct Factor

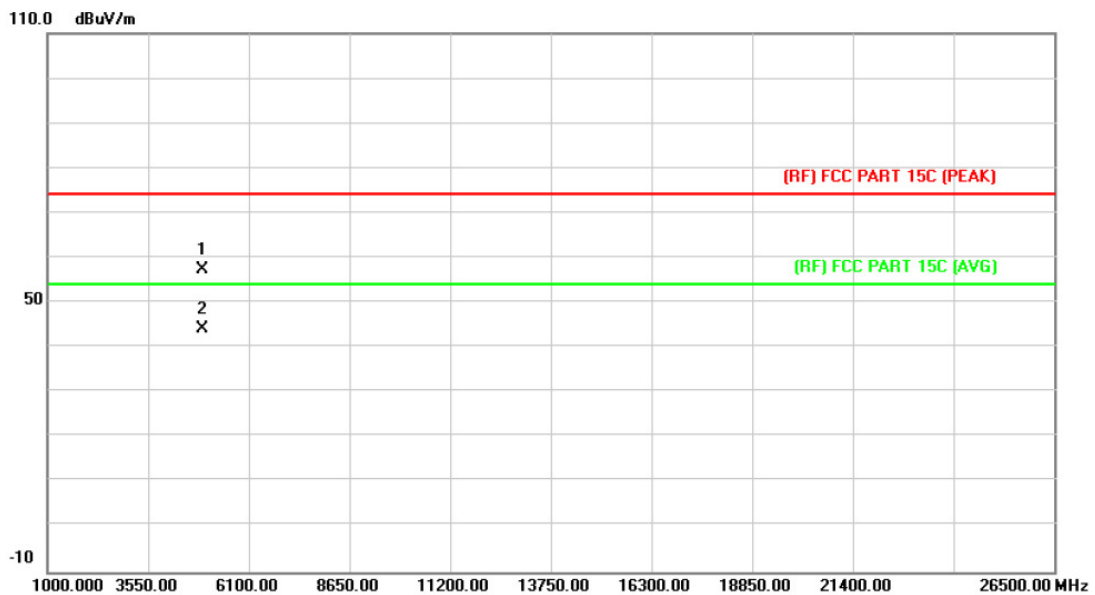
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		4924.441	44.38	14.15	58.53	74.00	-15.47 peak
2	*	4924.792	30.30	14.15	44.45	54.00	-9.55 AVG

Emission Level= Read Level+ Correct Factor

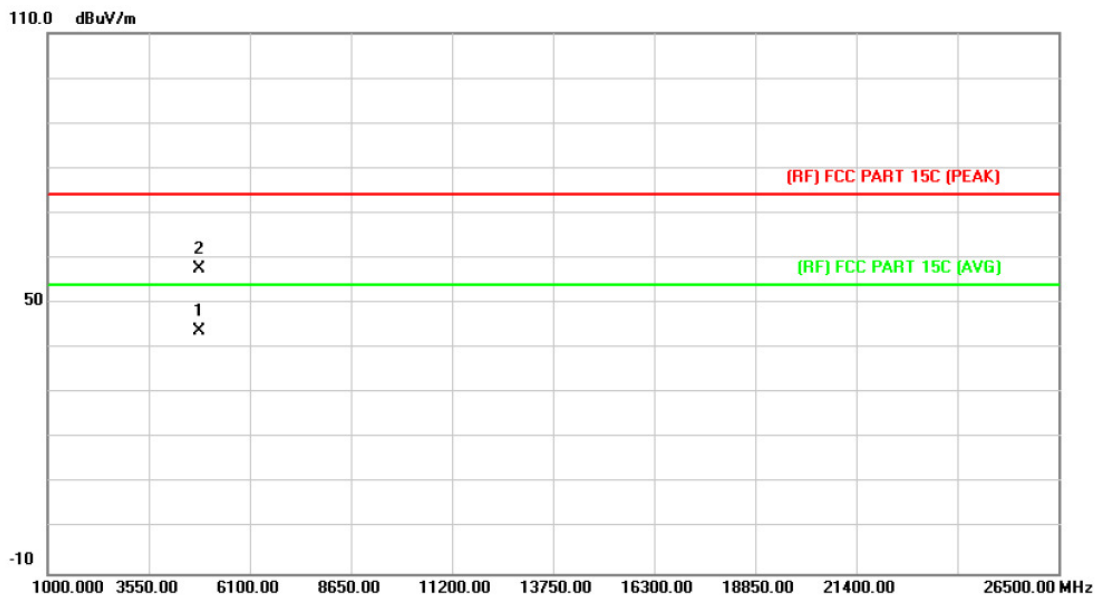
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4922.890	43.17	14.14	57.31	74.00	-16.69	peak
2	*	4925.059	30.09	14.16	44.25	54.00	-9.75	AVG

Emission Level= Read Level+ Correct Factor

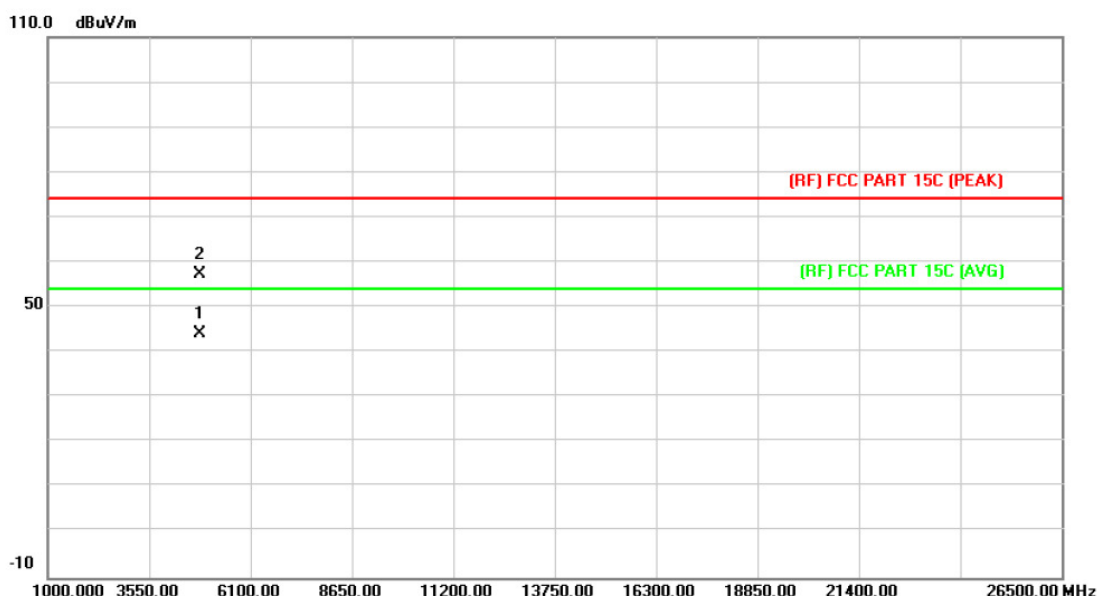
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.514	30.35	13.56	43.91	54.00	-10.09	AVG
2		4823.949	43.99	13.56	57.55	74.00	-16.45	peak

Emission Level= Read Level+ Correct Factor

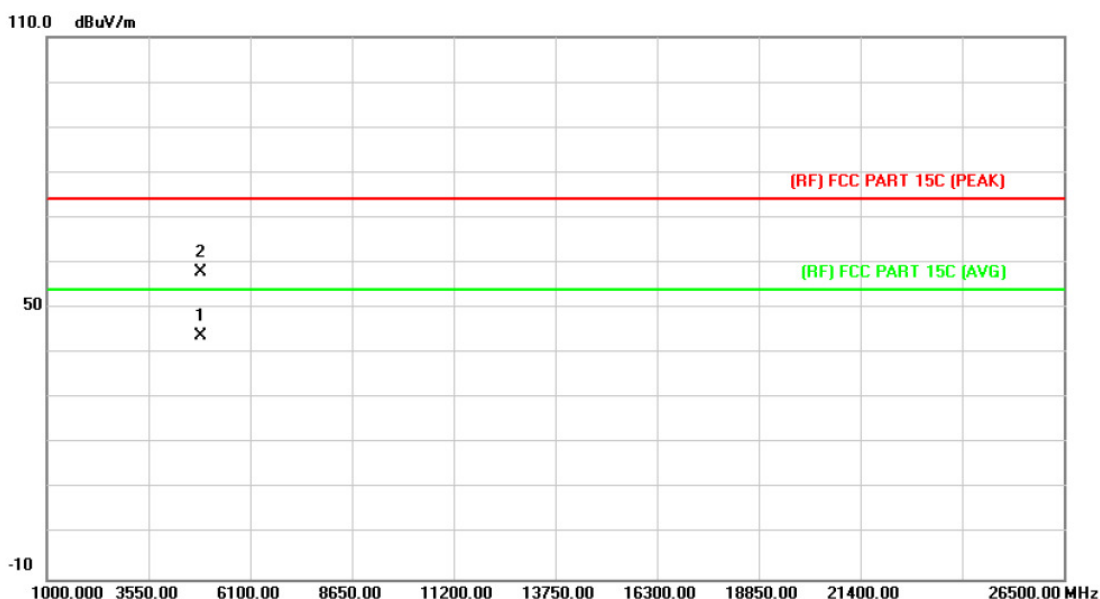
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4825.011	30.46	13.57	44.03	54.00	-9.97	AVG
2		4825.137	43.77	13.57	57.34	74.00	-16.66	peak

Emission Level= Read Level+ Correct Factor

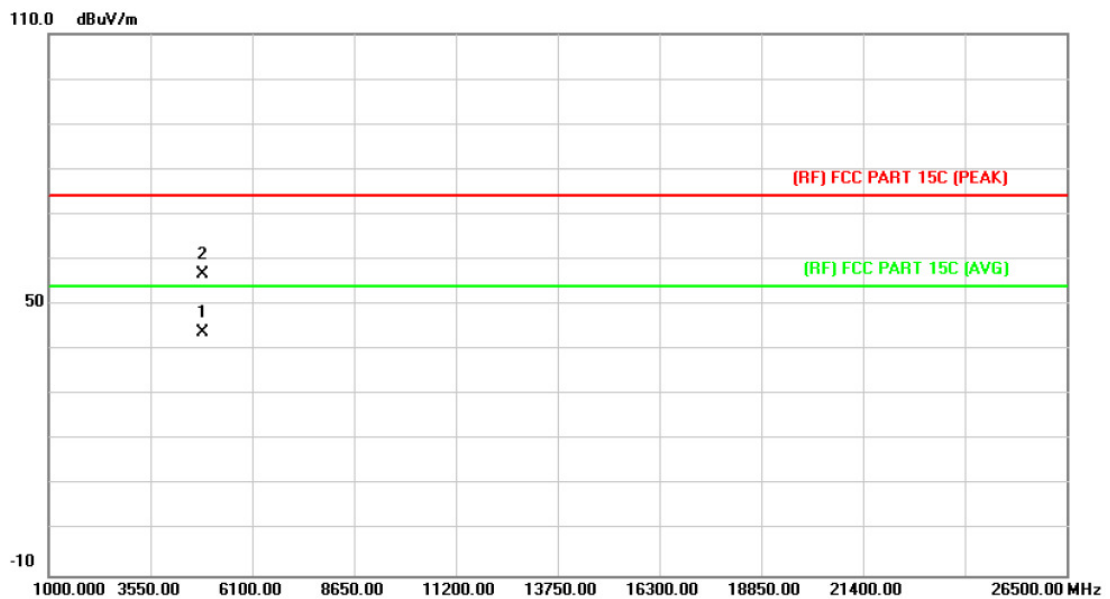
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.124	30.07	13.86	43.93	54.00	-10.07	AVG
2		4874.414	44.21	13.86	58.07	74.00	-15.93	peak

Emission Level= Read Level+ Correct Factor

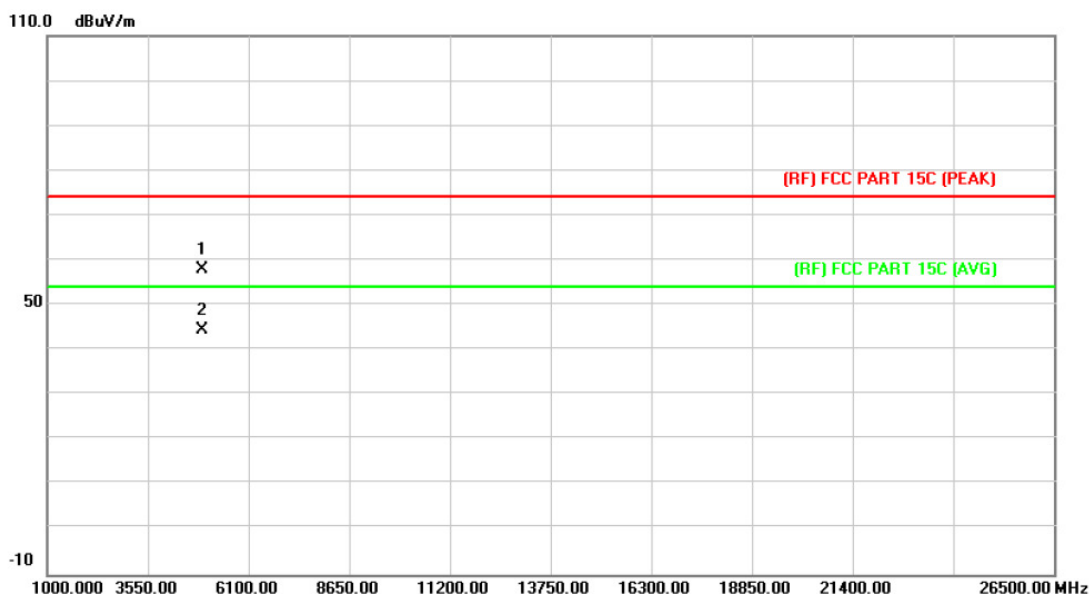
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.327	30.12	13.86	43.98	54.00	-10.02	AVG
2		4875.203	42.84	13.87	56.71	74.00	-17.29	peak

Emission Level= Read Level+ Correct Factor

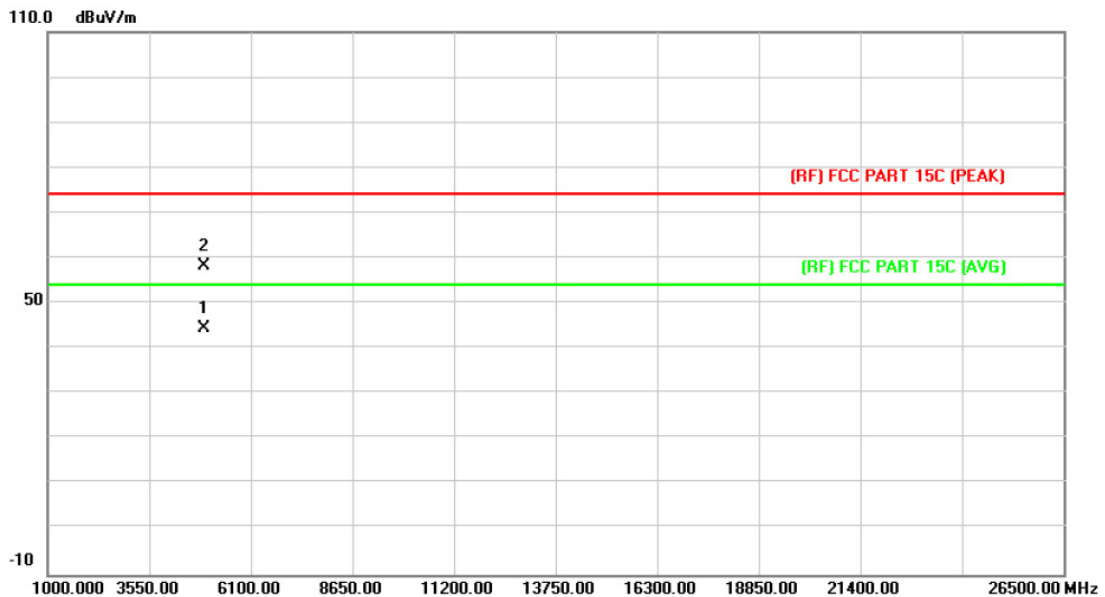
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.495	43.87	14.15	58.02	74.00	-15.98	peak
2	*	4925.047	30.36	14.16	44.52	54.00	-9.48	AVG

Emission Level= Read Level+ Correct Factor

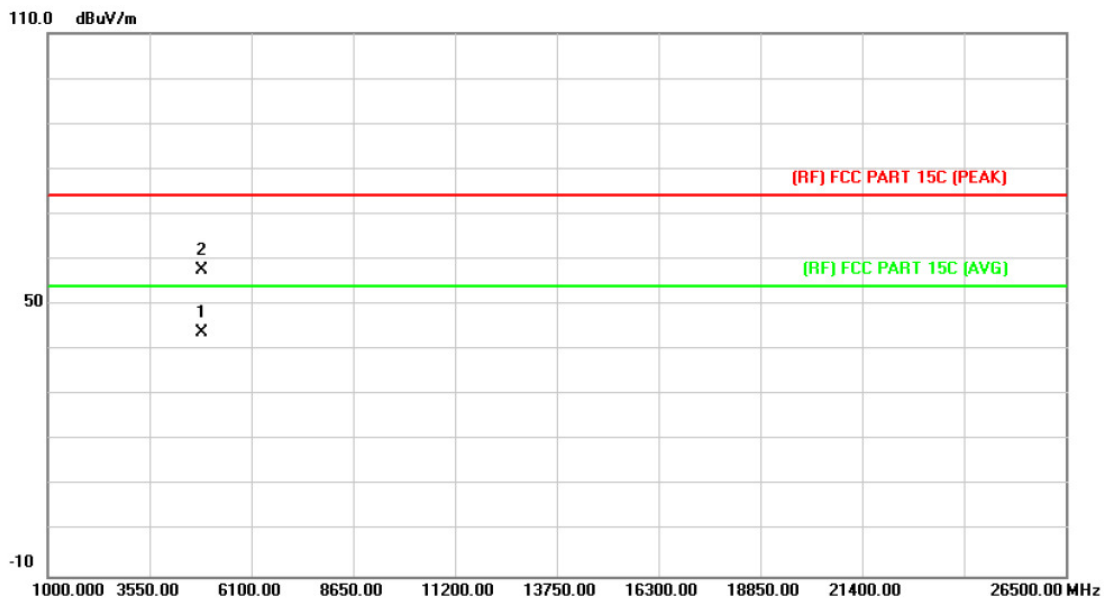
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4925.329	30.44	14.16	44.60	54.00	-9.40	AVG
2		4925.356	43.96	14.16	58.12	74.00	-15.88	peak

Emission Level= Read Level+ Correct Factor

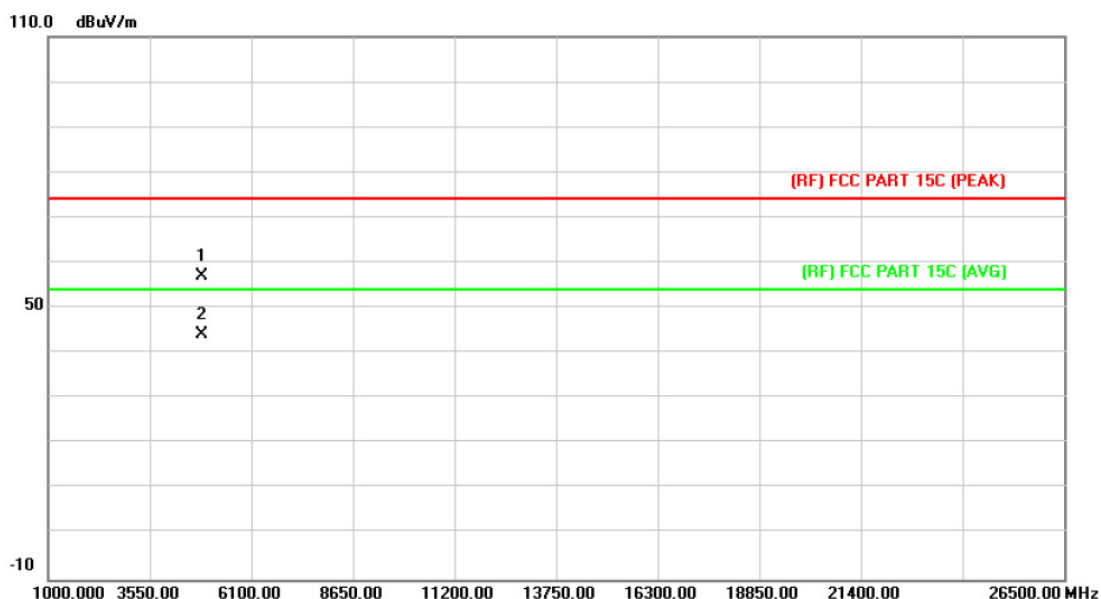
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4845.431	30.06	13.69	43.75	54.00	-10.25	AVG
2		4845.443	44.02	13.69	57.71	74.00	-16.29	peak

Emission Level= Read Level+ Correct Factor

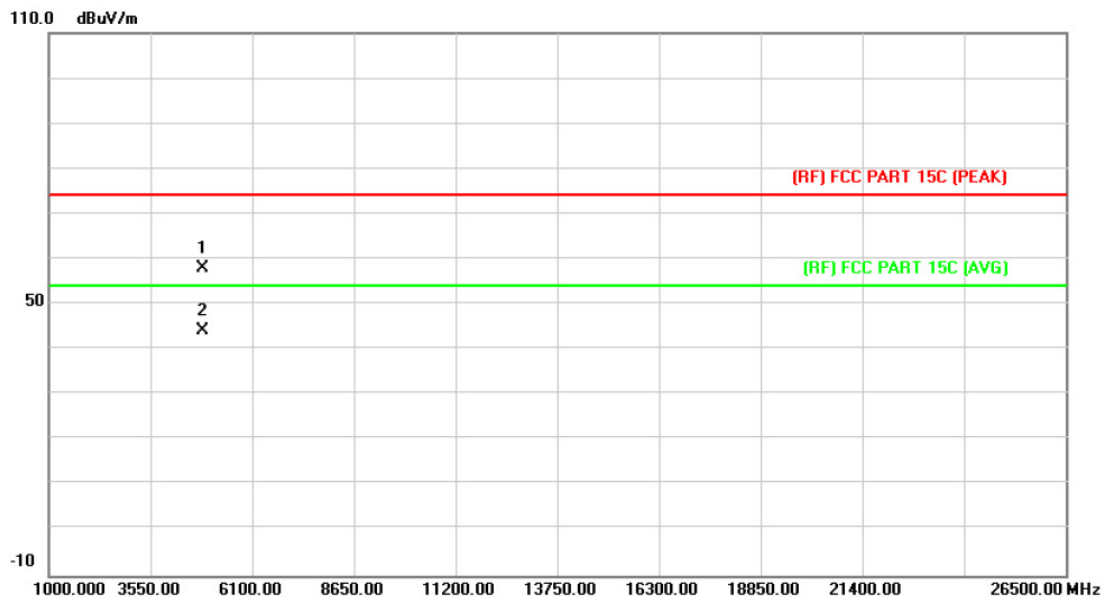
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4843.454	43.37	13.68	57.05	74.00	-16.95	peak
2	*	4845.308	30.32	13.69	44.01	54.00	-9.99	AVG

Emission Level= Read Level+ Correct Factor

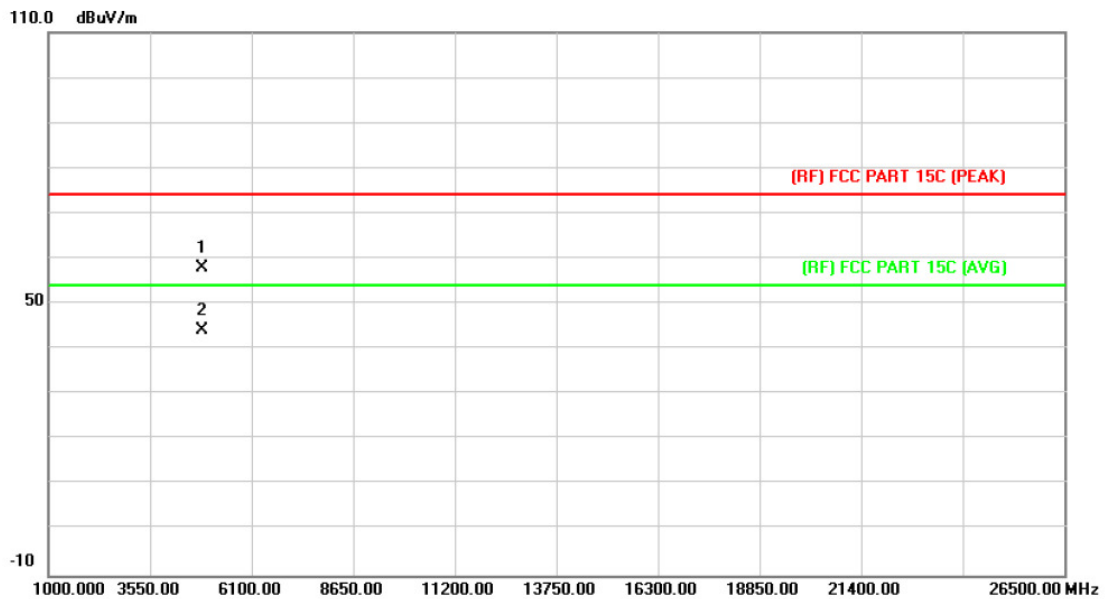
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4872.713	44.21	13.85	58.06	74.00	-15.94	peak
2	*	4874.321	30.20	13.86	44.06	54.00	-9.94	AVG

Emission Level= Read Level+ Correct Factor

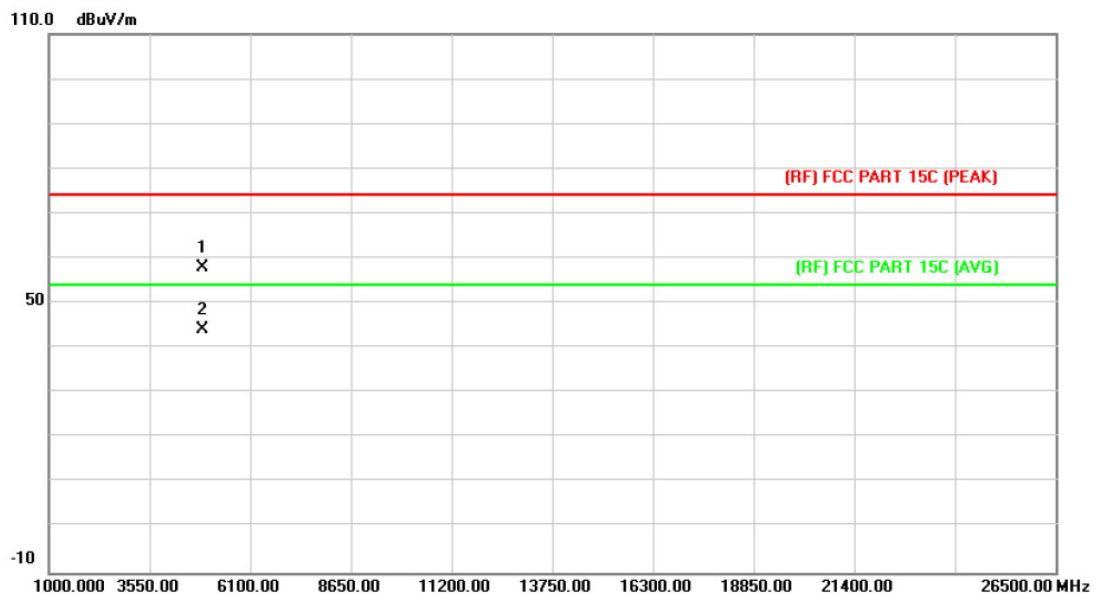
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.967	44.14	13.86	58.00	74.00	-16.00	peak
2	*	4874.276	30.16	13.86	44.02	54.00	-9.98	AVG

Emission Level= Read Level+ Correct Factor

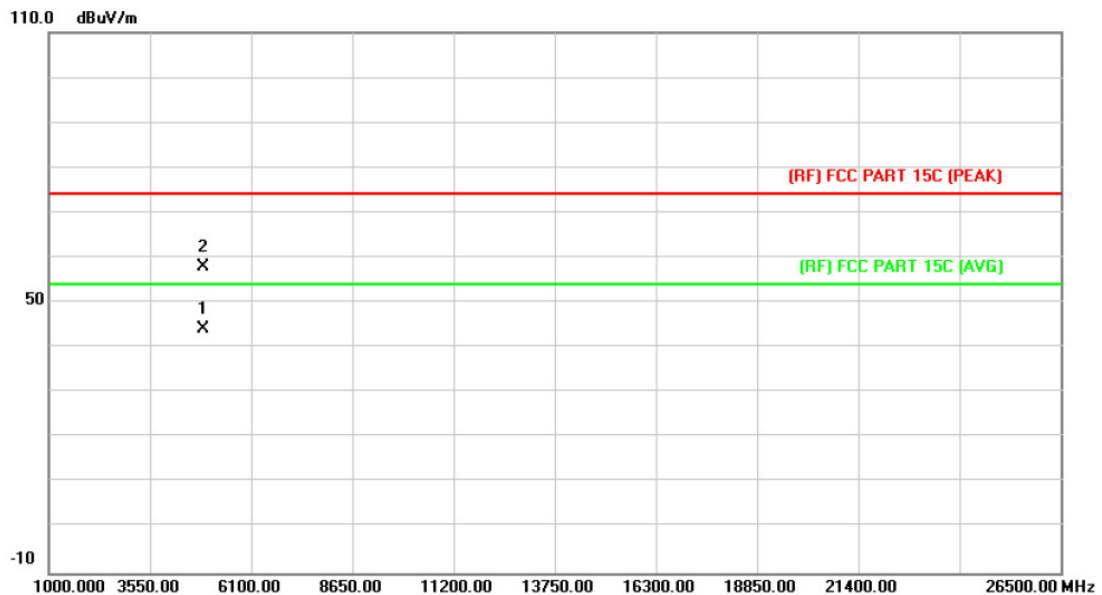
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4903.001	43.84	14.03	57.87	74.00	-16.13	peak
2	*	4904.522	30.08	14.03	44.11	54.00	-9.89	AVG

Emission Level= Read Level+ Correct Factor

EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4902.836	30.14	14.02	44.16	54.00	-9.84	AVG
2		4904.597	44.06	14.03	58.09	74.00	-15.91	peak

Emission Level= Read Level+ Correct Factor

6. Restricted Bands Requirement

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

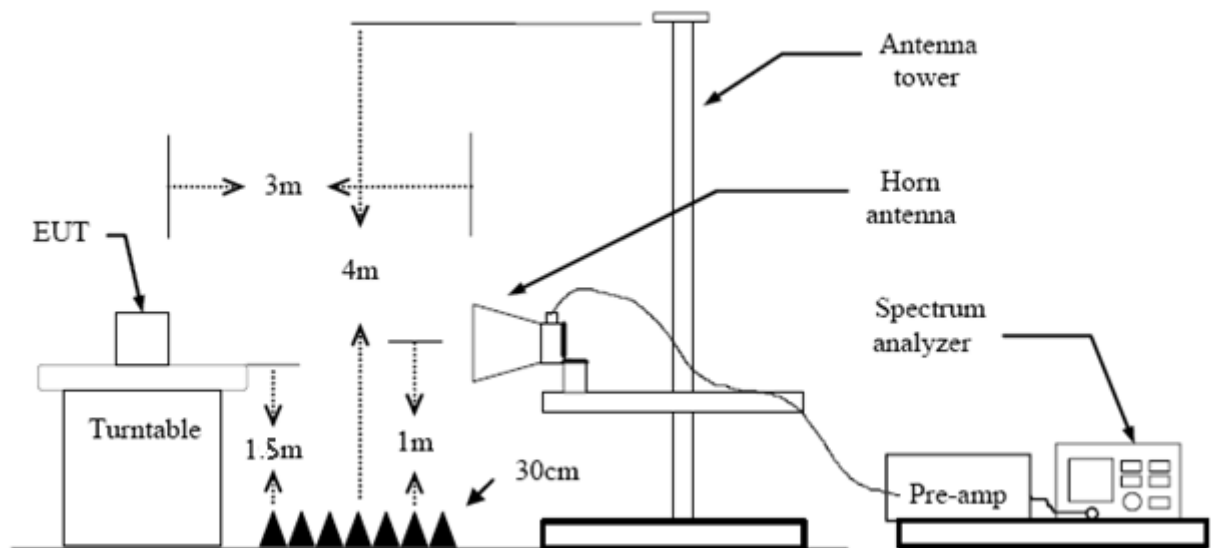
FCC Part 15.209

FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency Band (MHz)	Class B (dBuV/m)(at 3 M)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.

- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

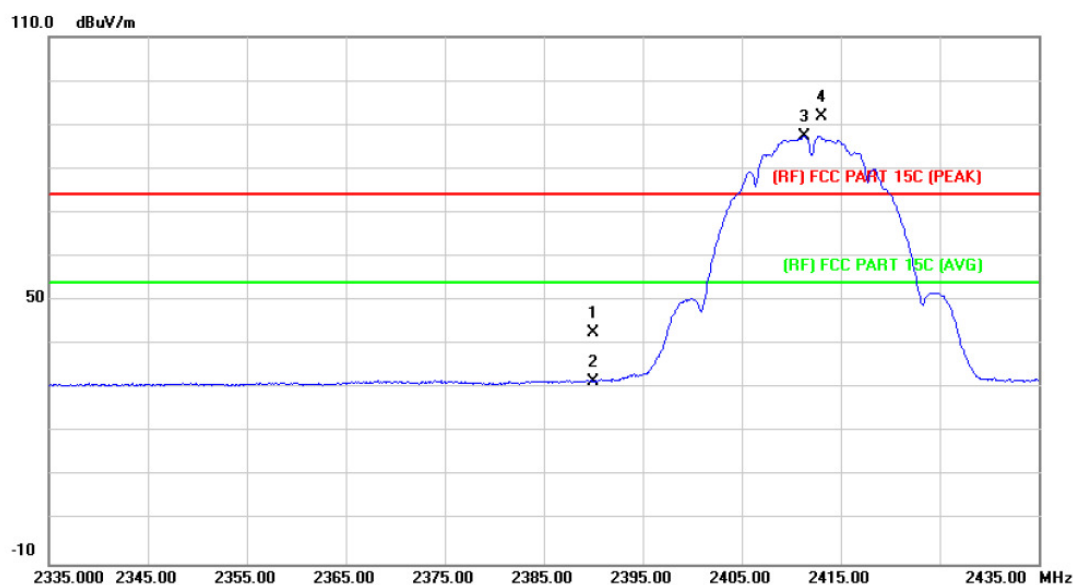
The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Please see the next page.

(1) Radiation Test

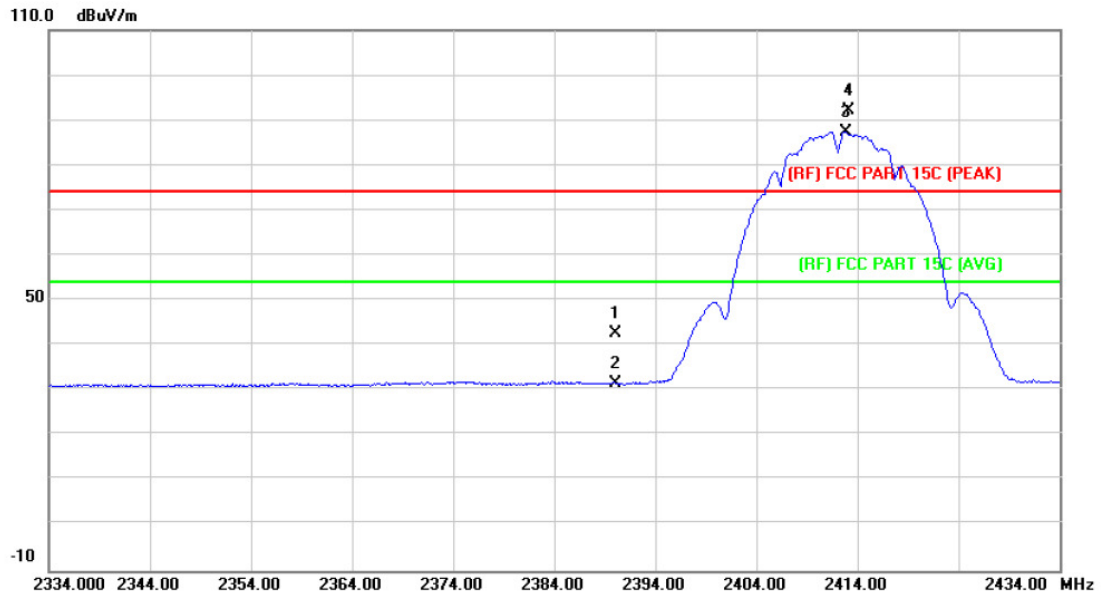
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	41.75	0.77	42.52	74.00	-31.48	peak
2		2390.000	30.87	0.77	31.64	54.00	-22.36	AVG
3	*	2411.300	86.59	0.86	87.45	Fundamental Frequency		AVG
4	X	2413.100	91.13	0.86	91.99	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

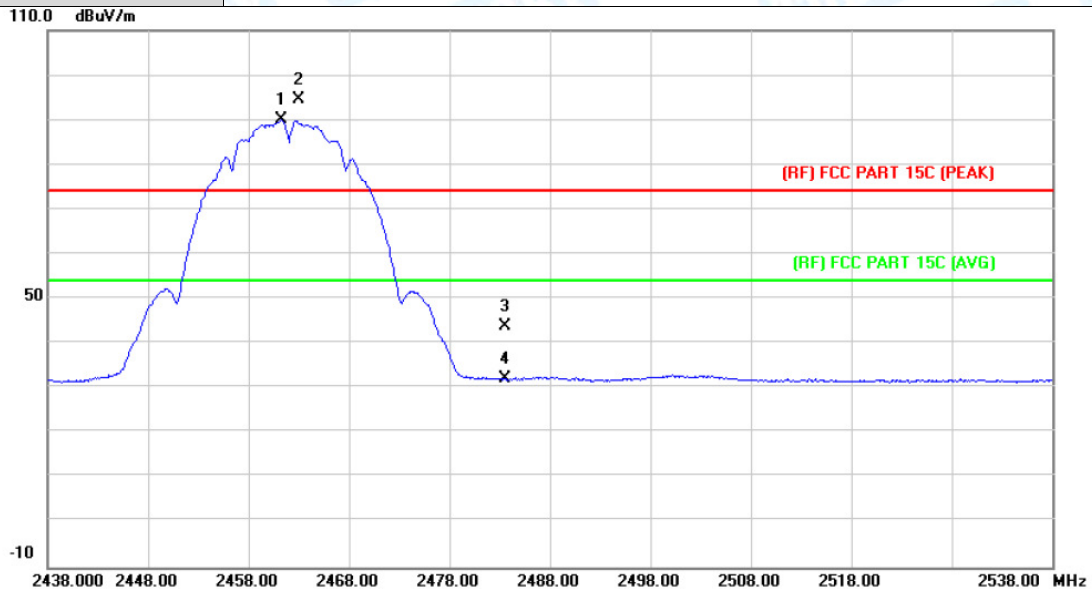
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	41.89	0.77	42.66	74.00	-31.34	peak
2		2390.000	30.76	0.77	31.53	54.00	-22.47	AVG
3	*	2412.800	86.56	0.86	87.42	Fundamental Frequency		AVG
4	X	2413.100	91.22	0.86	92.08	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

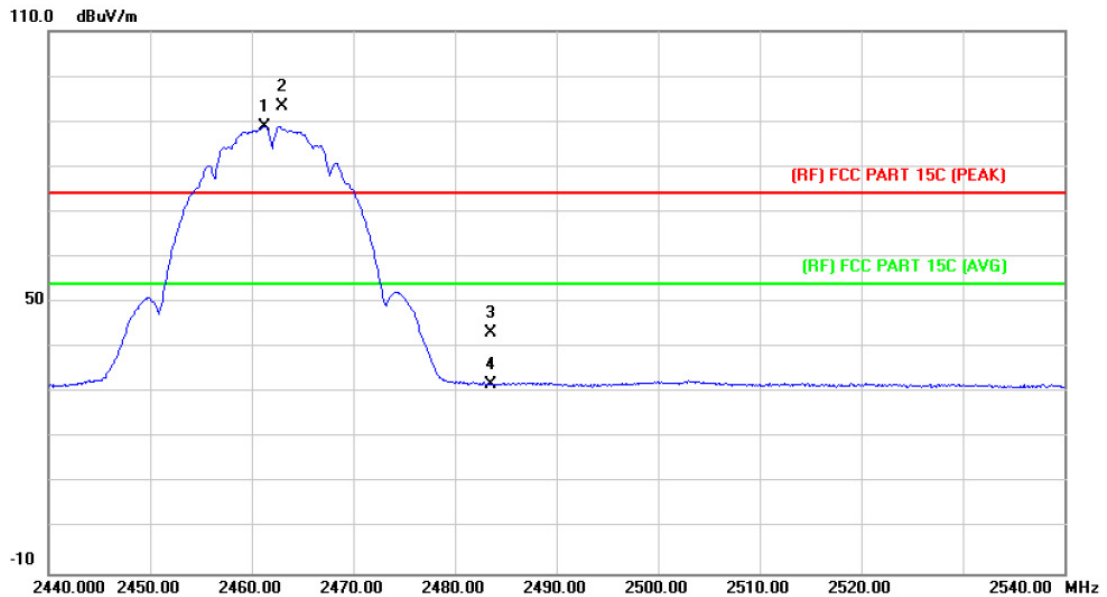
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2461.300	88.86	1.07	89.93	Fundamental Frequency		AVG
2	X	2463.000	93.32	1.08	94.40	Fundamental Frequency		peak
3		2483.500	42.59	1.17	43.76	74.00	-30.24	peak
4		2483.500	30.87	1.17	32.04	54.00	-21.96	AVG

Emission Level= Read Level+ Correct Factor

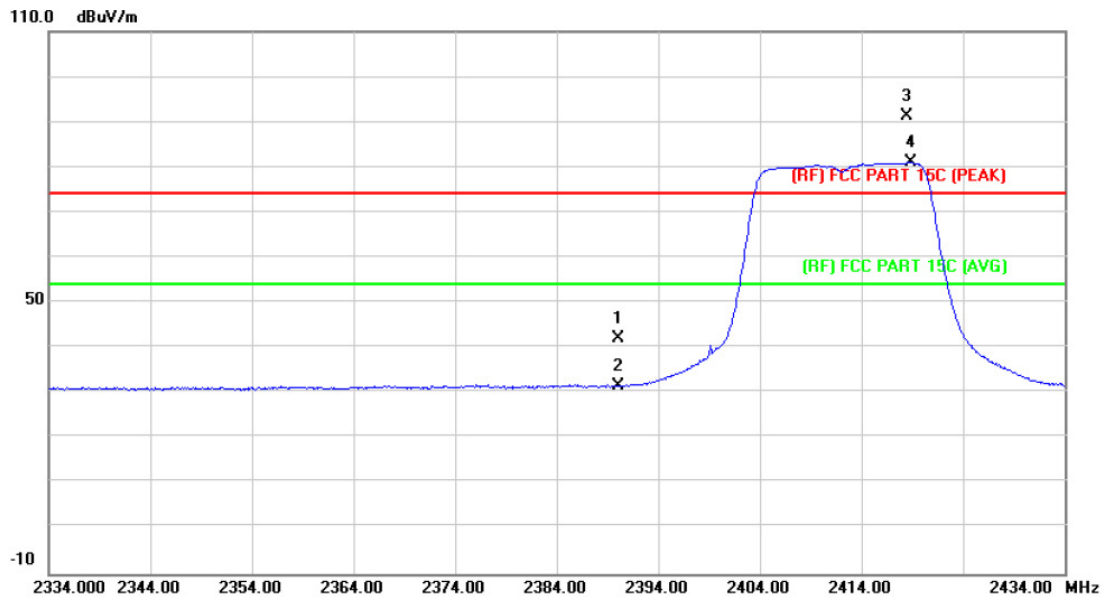
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2461.300	87.85	1.07	88.92	Fundamental Frequency		AVG
2	X	2463.000	92.39	1.08	93.47	Fundamental Frequency		peak
3		2483.500	42.06	1.17	43.23	74.00	-30.77	peak
4		2483.500	30.59	1.17	31.76	54.00	-22.24	AVG

Emission Level= Read Level+ Correct Factor

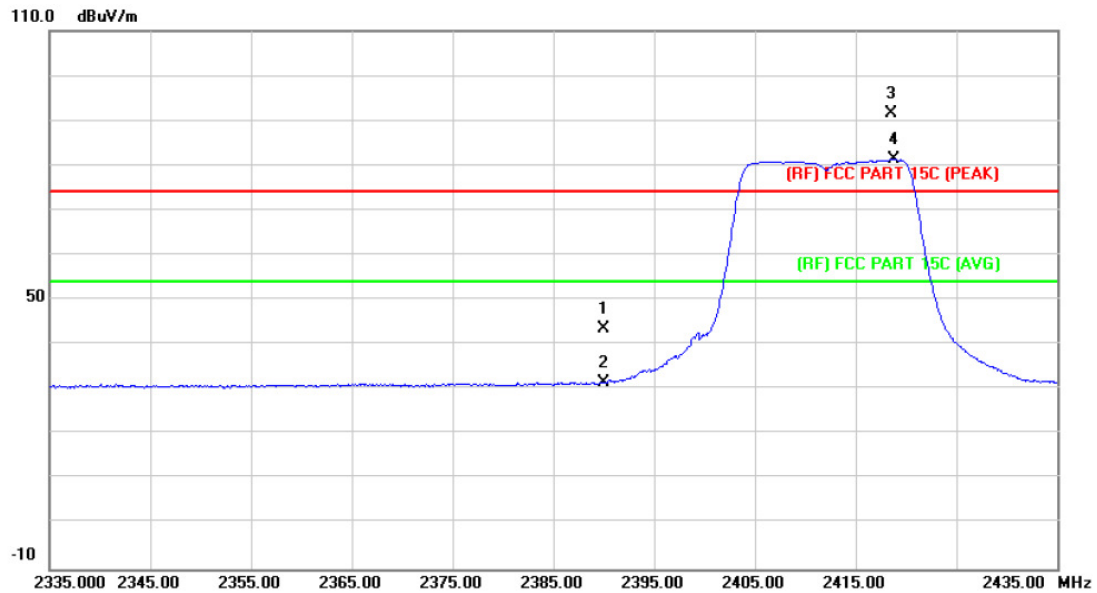
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	41.31	0.77	42.08	74.00	-31.92	peak
2		2390.000	30.76	0.77	31.53	54.00	-22.47	AVG
3	X	2418.500	90.23	0.89	91.12	Fundamental Frequency		peak
4	*	2418.900	80.14	0.89	81.03	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

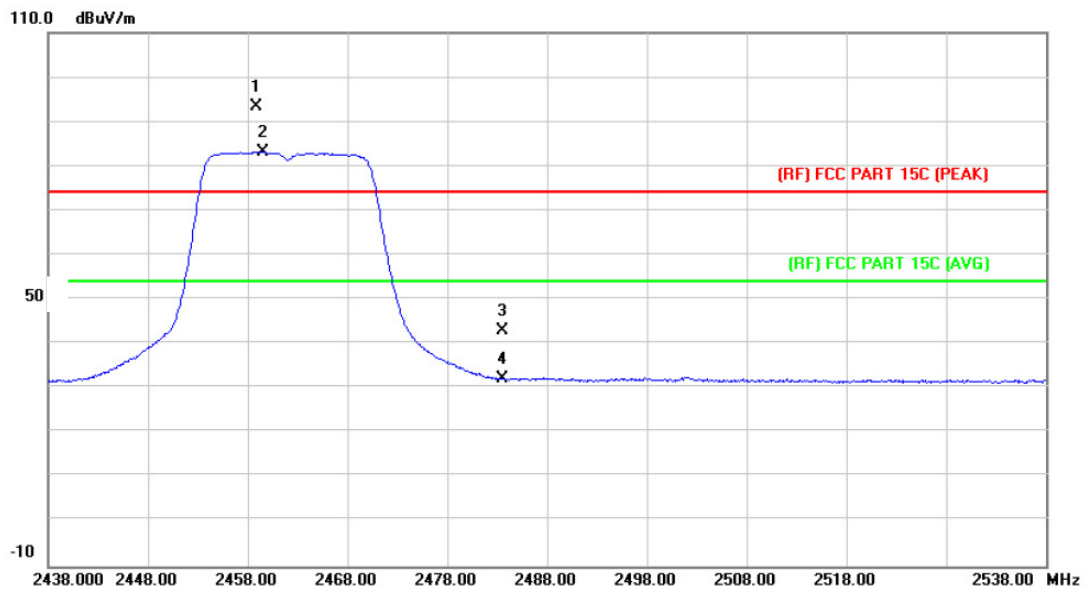
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		2390.000	42.70	0.77	43.47	74.00	-30.53	peak
2		2390.000	30.70	0.77	31.47	54.00	-22.53	AVG
3	X	2418.600	90.61	0.89	91.50	Fundamental Frequency		peak
4	*	2418.800	80.47	0.89	81.36	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

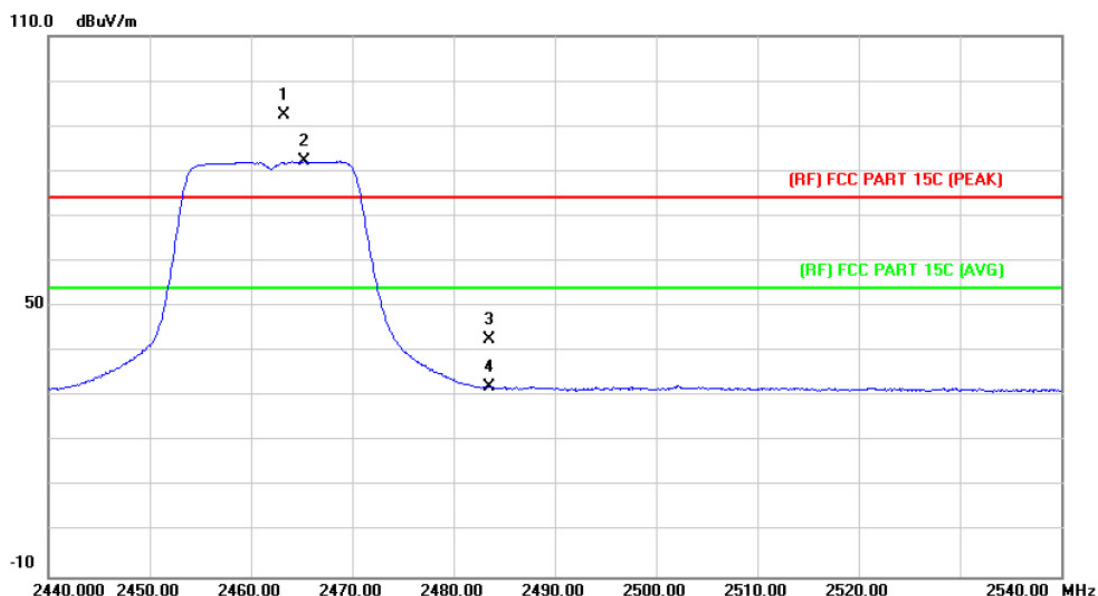
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2458.800	92.42	1.06	93.48	Fundamental Frequency		peak
2	*	2459.500	82.15	1.06	83.21	Fundamental Frequency		AVG
3		2483.500	41.87	1.17	43.04	74.00	-30.96	peak
4		2483.500	31.05	1.17	32.22	54.00	-21.78	AVG

Emission Level= Read Level+ Correct Factor

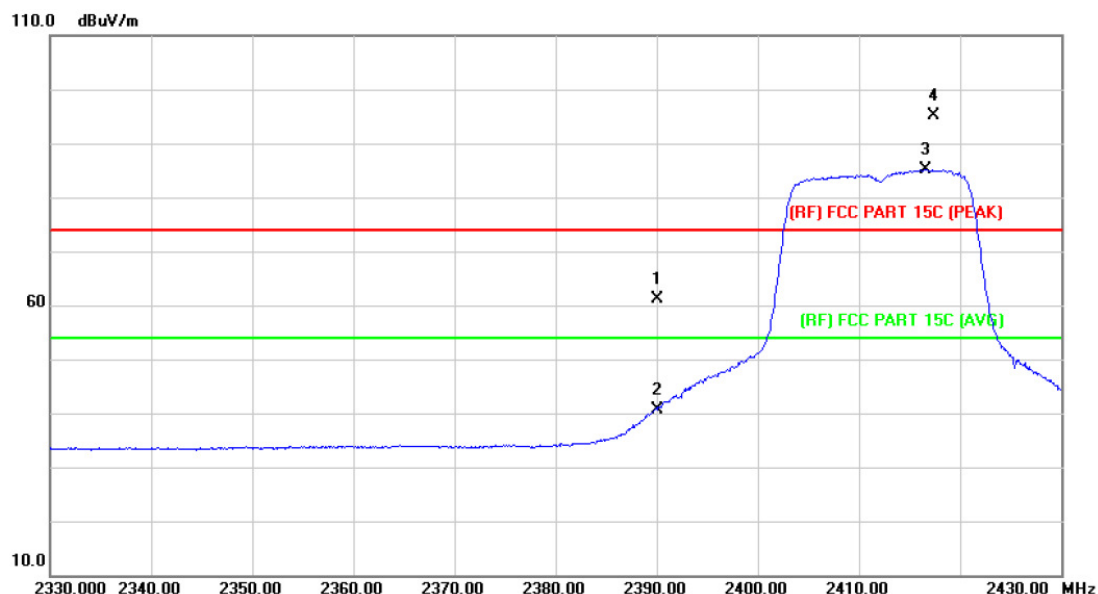
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	X	2463.300	91.28	1.08	92.36	Fundamental Frequency		peak
2	*	2465.300	81.05	1.09	82.14	Fundamental Frequency		AVG
3		2483.500	41.56	1.17	42.73	74.00	-31.27	peak
4		2483.500	30.87	1.17	32.04	54.00	-21.96	AVG

Emission Level= Read Level+ Correct Factor

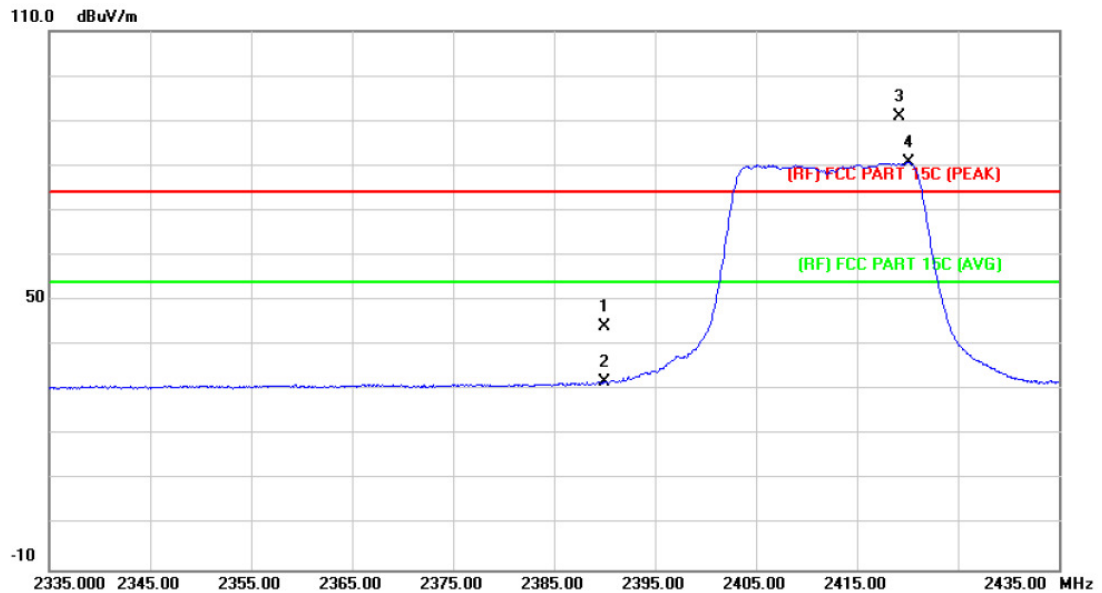
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	60.39	0.77	61.16	74.00	-12.84	peak
2		2390.000	39.95	0.77	40.72	54.00	-13.28	AVG
3	*	2416.600	84.25	0.88	85.13	Fundamental Frequency		AVG
4	X	2417.400	94.23	0.89	95.12	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

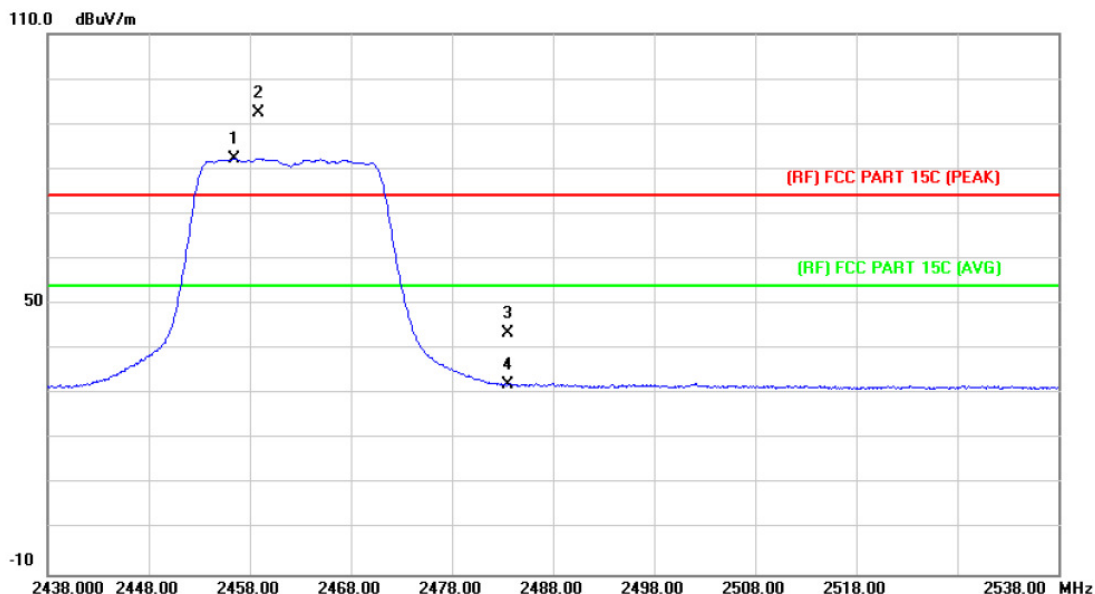
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	43.53	0.77	44.30	74.00	-29.70	peak
2		2390.000	31.09	0.77	31.86	54.00	-22.14	AVG
3	X	2419.200	90.14	0.89	91.03	Fundamental Frequency		peak
4	*	2420.200	79.89	0.89	80.78	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

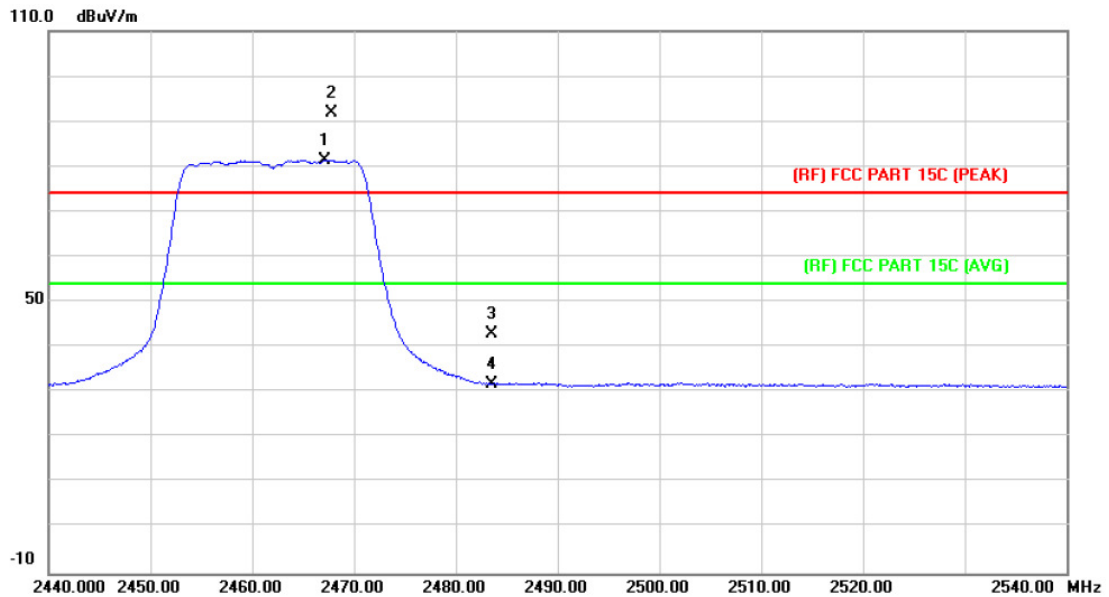
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1	*	2456.400	81.23	1.05	82.28	Fundamental Frequency	AVG
2	X	2458.800	91.54	1.06	92.60	Fundamental Frequency	peak
3		2483.500	42.44	1.17	43.61	74.00	-30.39 peak
4		2483.500	31.00	1.17	32.17	54.00	-21.83 AVG

Emission Level= Read Level+ Correct Factor

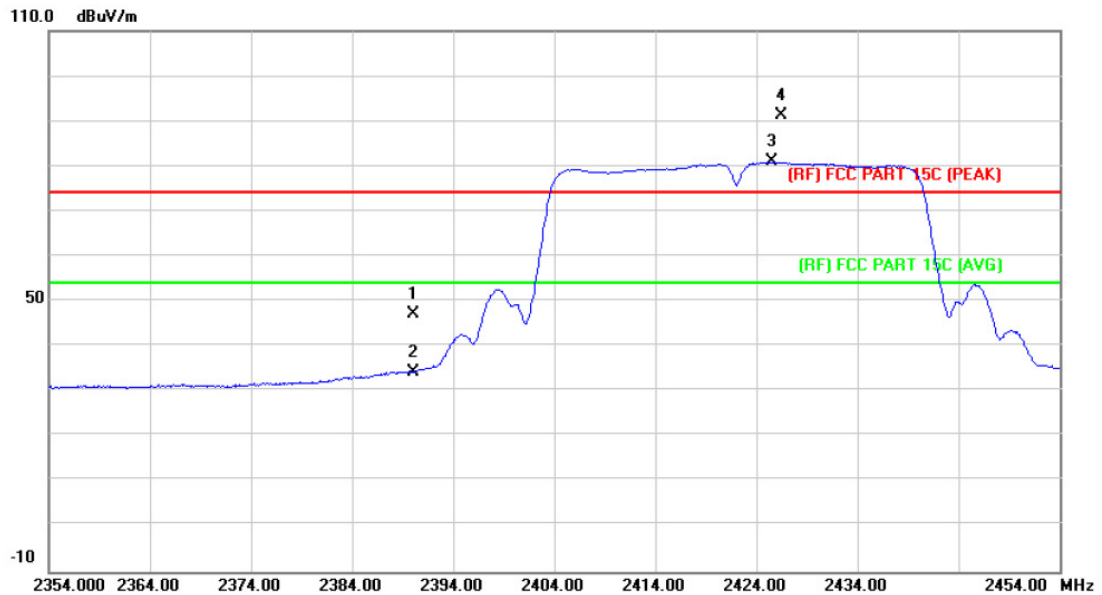
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2467.200	80.39	1.10	81.49	Fundamental Frequency		AVG
2	X	2467.800	90.79	1.10	91.89	Fundamental Frequency		peak
3		2483.500	41.75	1.17	42.92	74.00	-31.08	peak
4		2483.500	30.65	1.17	31.82	54.00	-22.18	AVG

Emission Level= Read Level+ Correct Factor

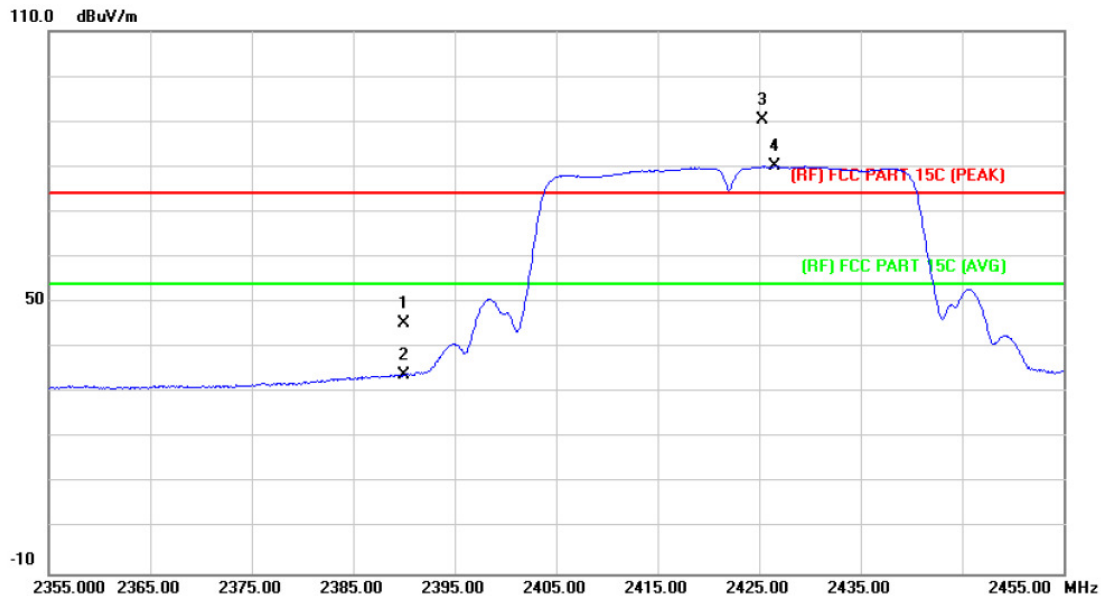
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	46.35	0.77	47.12	74.00	-26.88	peak
2		2390.000	33.60	0.77	34.37	54.00	-19.63	AVG
3	*	2425.600	79.97	0.93	80.90	Fundamental Frequency		AVG
4	X	2426.500	90.29	0.93	91.22	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

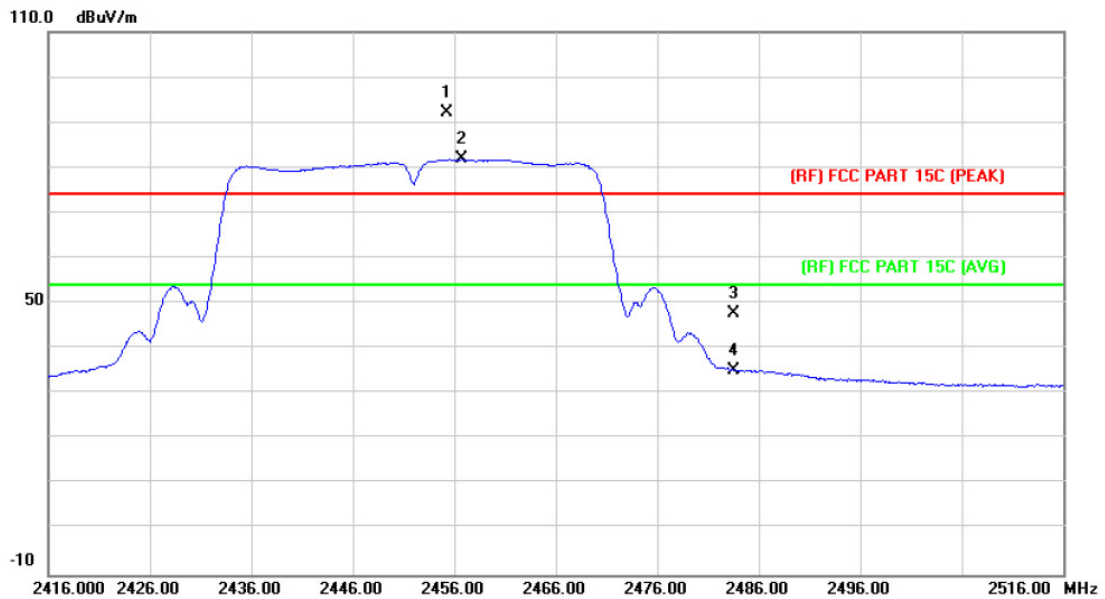
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	44.67	0.77	45.44	74.00	-28.56	peak
2		2390.000	33.18	0.77	33.95	54.00	-20.05	AVG
3	X	2425.300	89.45	0.93	90.38	Fundamental Frequency		peak
4	*	2426.500	79.14	0.93	80.07	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

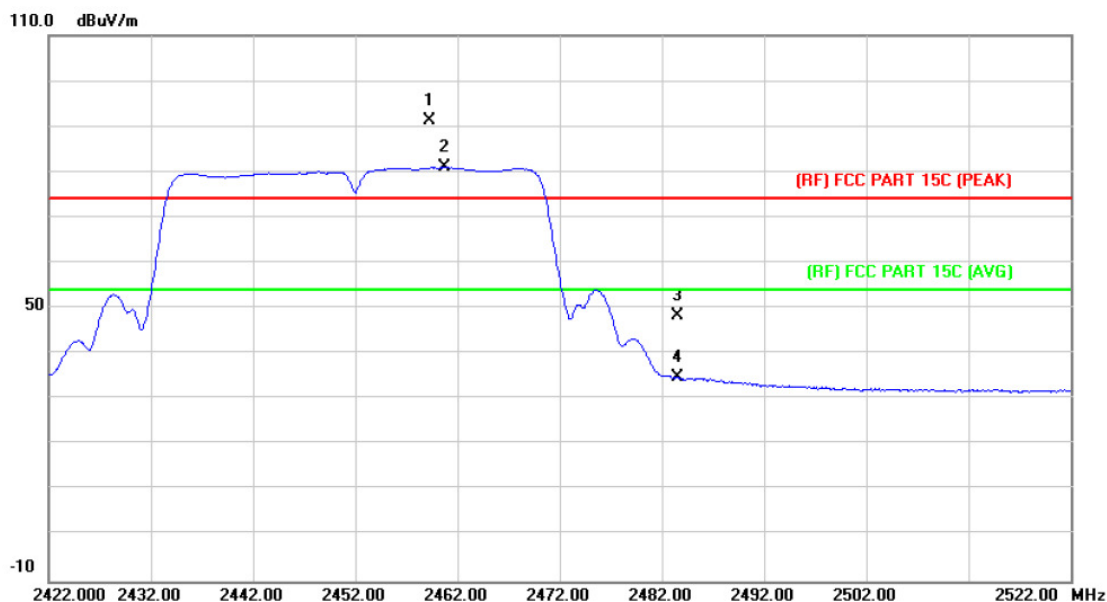
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2455.300	90.99	1.05	92.04	Fundamental Frequency		peak
2	*	2456.700	80.76	1.05	81.81	Fundamental Frequency		AVG
3		2483.500	46.53	1.17	47.70	74.00	-26.30	peak
4		2483.500	34.09	1.17	35.26	54.00	-18.74	AVG

Emission Level= Read Level+ Correct Factor

EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		

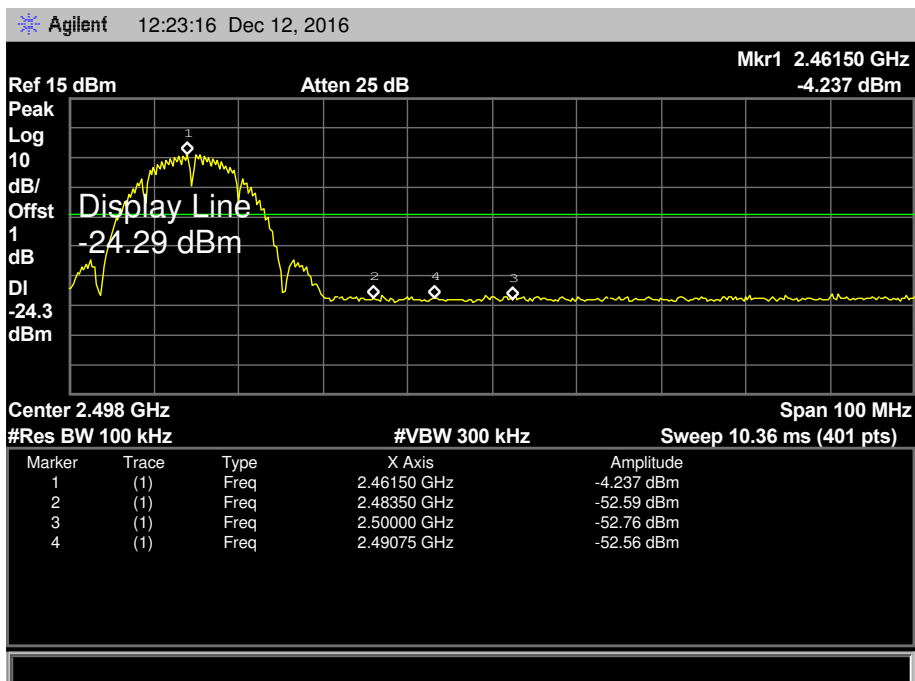
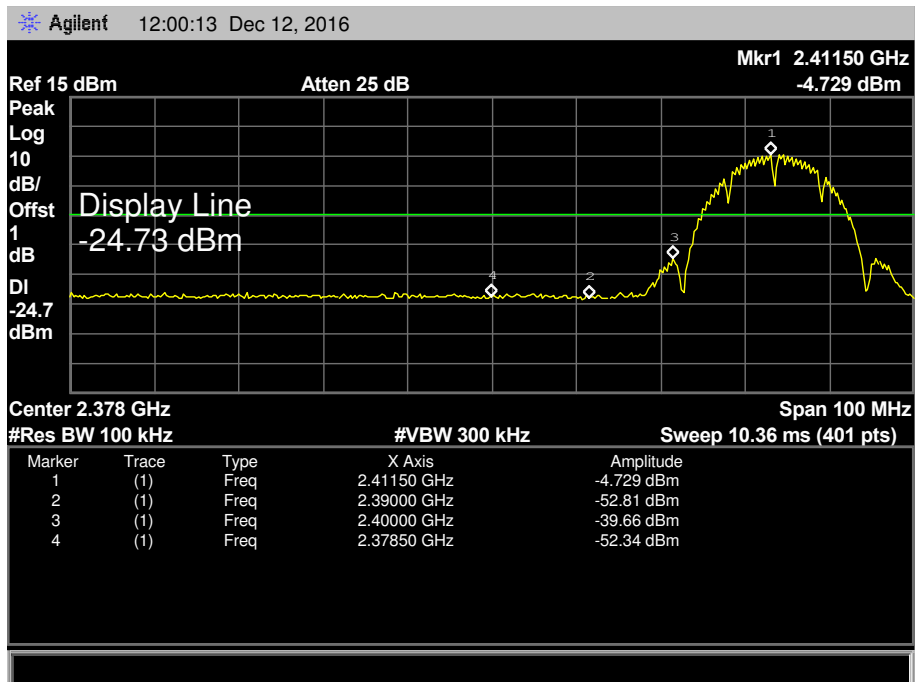


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2459.300	90.09	1.06	91.15	Fundamental Frequency		peak
2	*	2460.700	79.96	1.06	81.02	Fundamental Frequency		AVG
3		2483.500	47.10	1.17	48.27	74.00	-25.73	peak
4		2483.500	33.72	1.17	34.89	54.00	-19.11	AVG

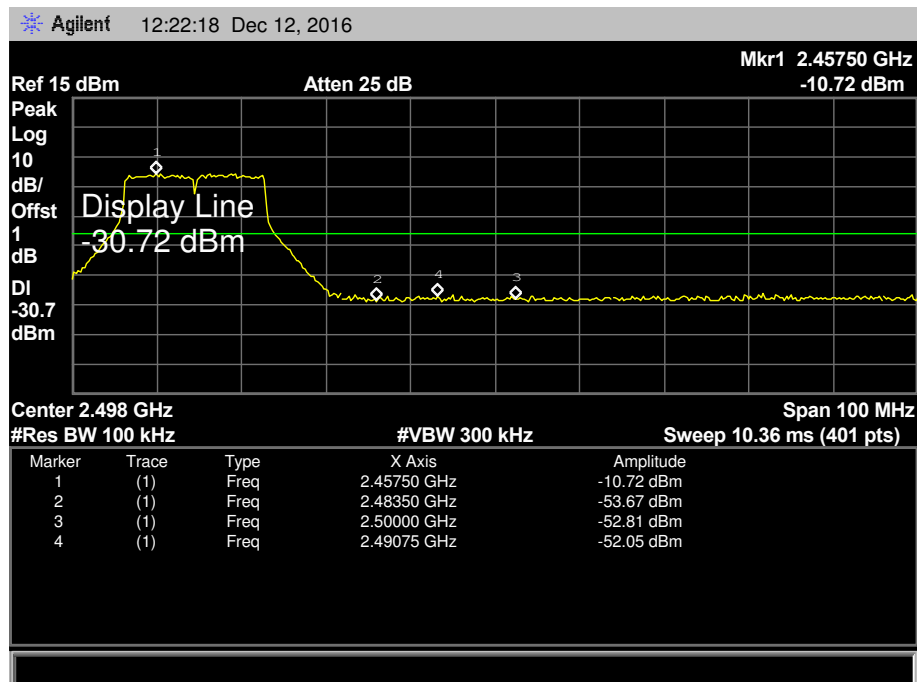
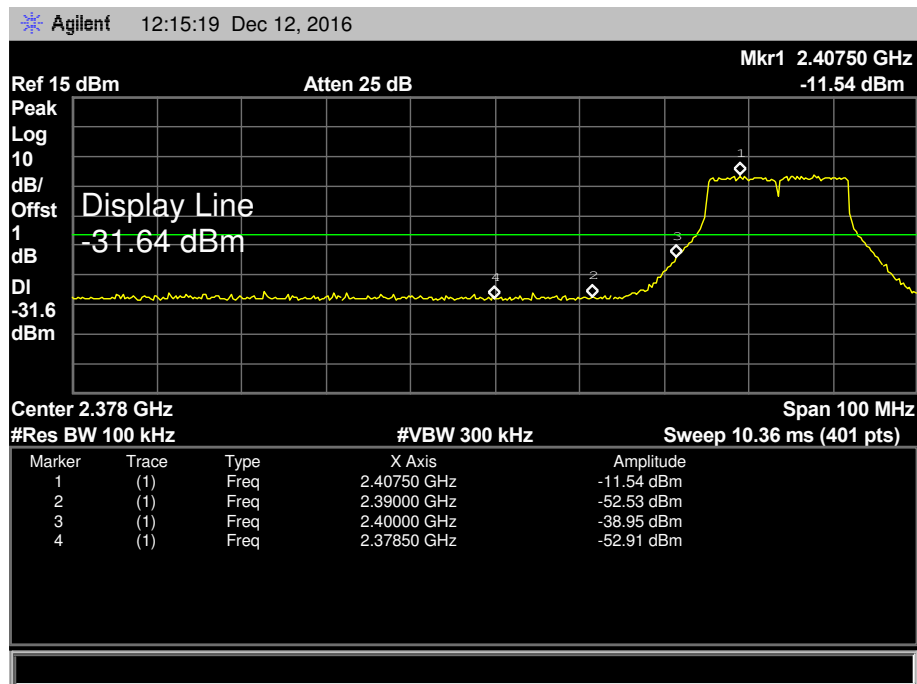
Emission Level= Read Level+ Correct Factor

(2) Conducted Test

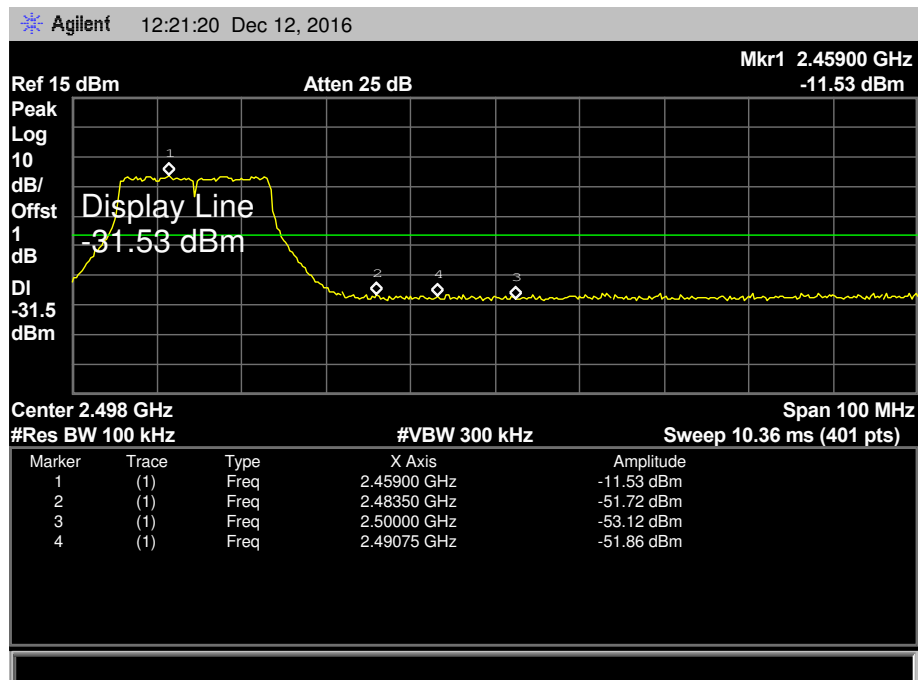
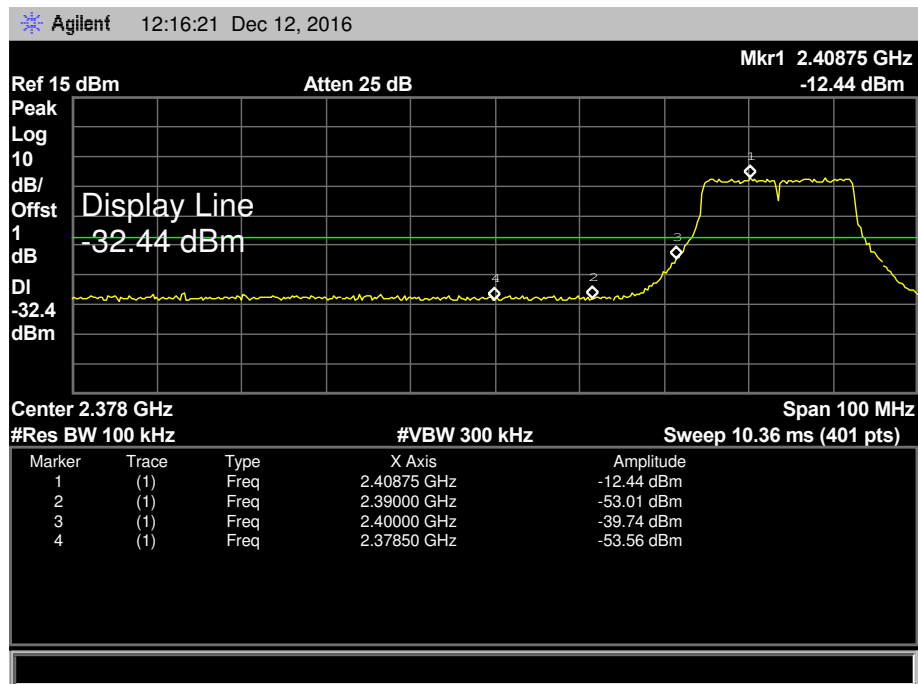
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



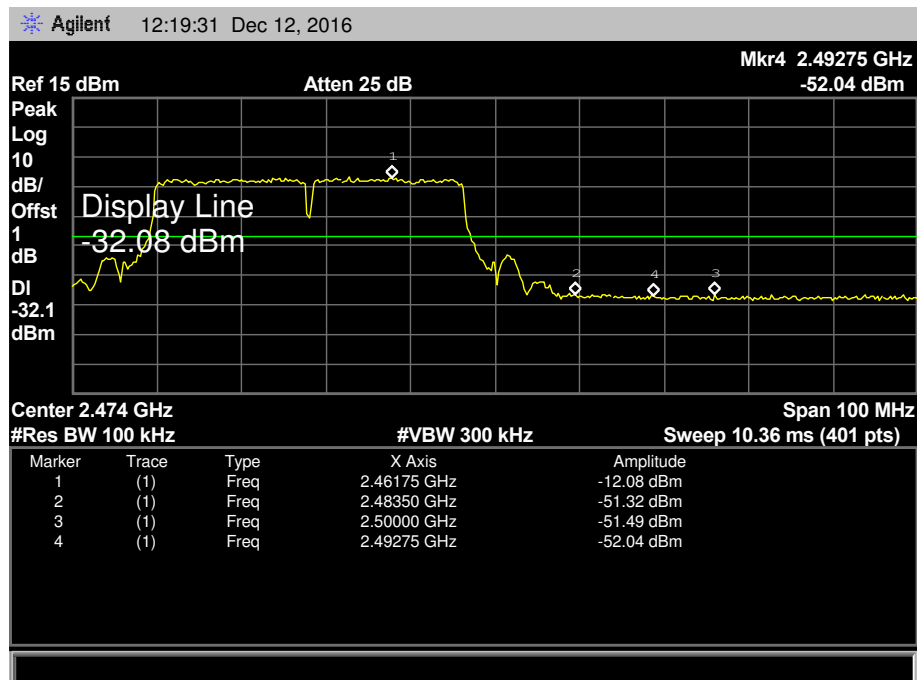
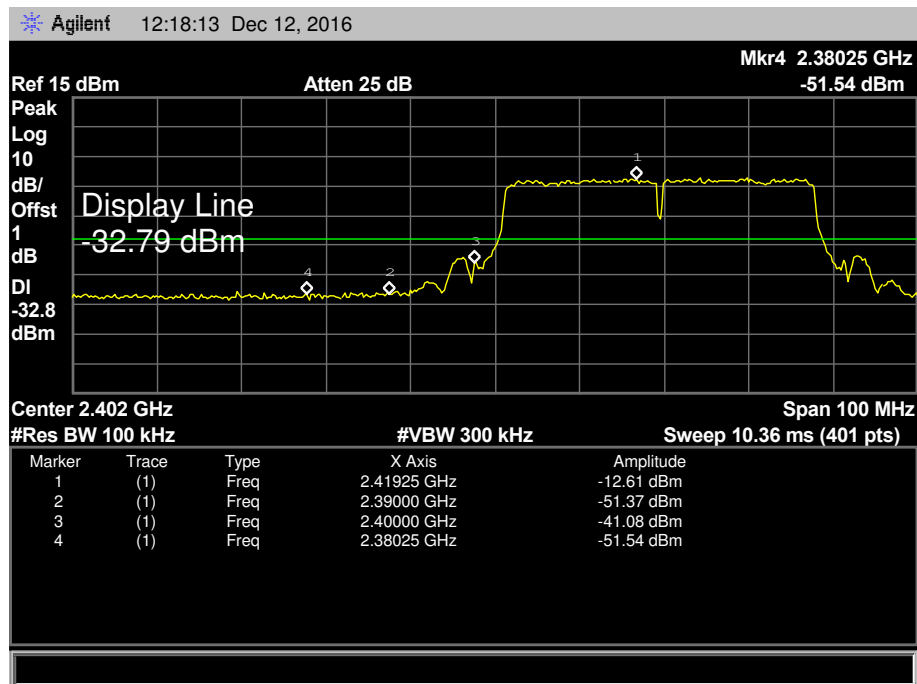
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz		
Remark:	The EUT is programmed in continuously transmitting mode		



EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz		
Remark:	The EUT is programed in continuously transmitting mode		



7. Bandwidth Test

7.1 Test Standard and Limit

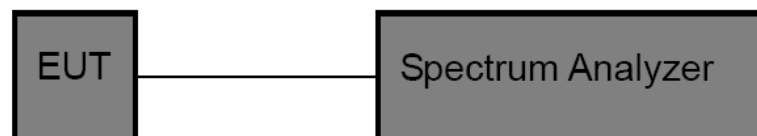
7.1.1 Test Standard

FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
Test Item	Limit	Frequency Range(MHz)
Bandwidth	≥ 500 KHz (6dB bandwidth)	2400~2483.5

7.2 Test Setup



7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst -case (i.e the widest) bandwidth.
- (3) Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

7.5 Test Data

EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11B Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	10.087	14.9897	>=0.5
2437	10.053	14.9768	
2462	10.091	14.9826	

802.11B Mode

2412 MHz

Agilent11:25:59 Dec 11, 2016

Ref 15 dBm

Atten 25 dB

#Peak

Log

10

dB/

Offst

1

dB

Center

2.412000000 GHz

Center 2.412 GHz

#Res BW 100 kHz

Occupied Bandwidth

14.9897 MHz

Transmit Freq Error

x dB Bandwidth

Span 20 MHz

Sweep 4 ms (401 pts)

#VBW 300 kHz

Occ BW % Pwr

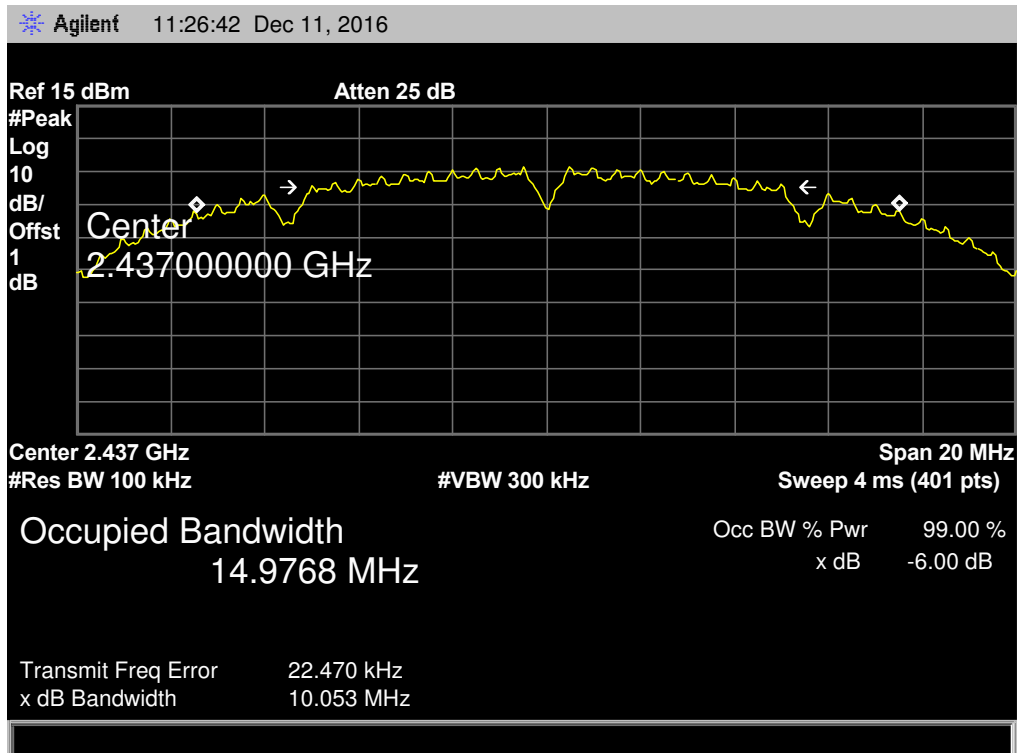
x dB

99.00 %

-6.00 dB

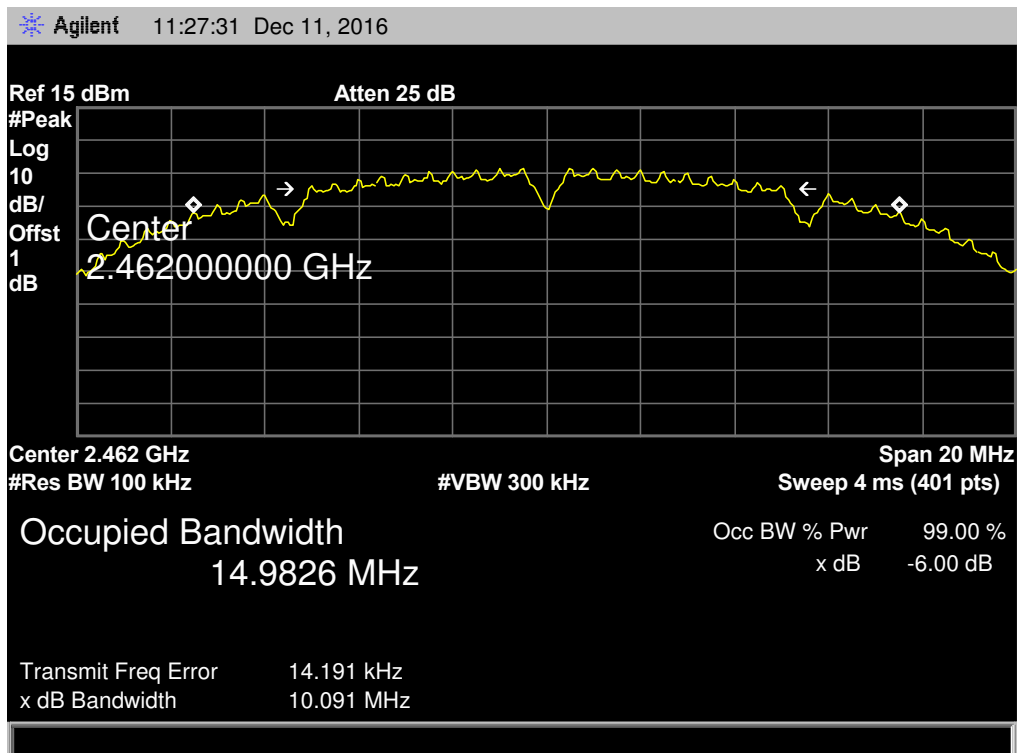
802.11B Mode

2437 MHz



802.11B Mode

2462 MHz



EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11G Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	16.613	16.4967	>=0.5
2437	16.609	16.4796	
2462	16.574	16.4685	

802.11G Mode

2412 MHz

Agilent 11:45:31 Dec 12, 2016

Ref 15 dBm

Atten 25 dB

#Peak

Log

10

dB/

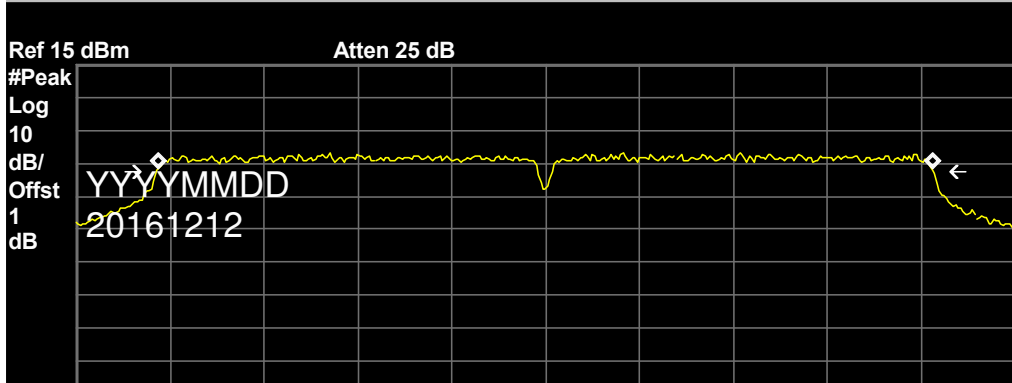
Offst

1

dB

YYYYMMDD

20161212



Center 2.412 GHz

Res BW 100 kHz

#VBW 300 kHz

Span 20 MHz

Sweep 4 ms (401 pts)

Occupied Bandwidth

16.4967 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB

Transmit Freq Error

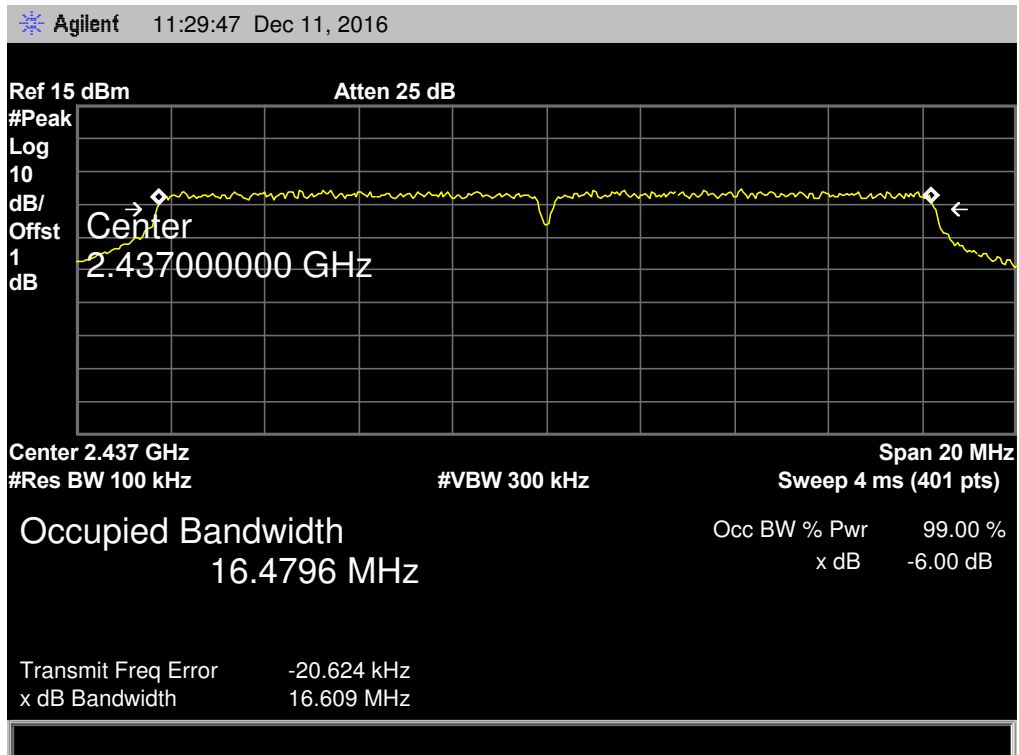
-21.524 kHz

x dB Bandwidth

16.613 MHz

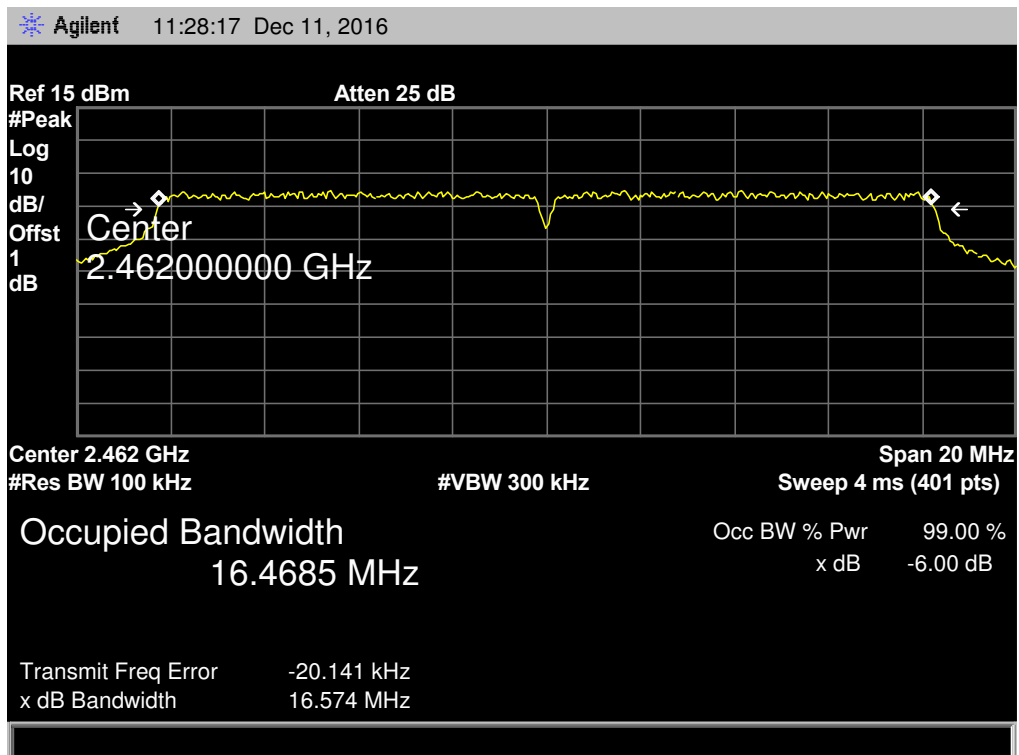
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz



EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11N(HT20) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.841	17.6972	>=0.5
2437	17.846	17.6961	
2462	17.839	17.6967	
802.11N(HT20) Mode			
2412 MHz			

Agilent11:46:19 Dec 12, 2016

Ref 15 dBm

Atten 25 dB

#Peak

Log

10

dB/

Offst

1

dB

YYYYMMDD

20161212

Center 2.412 GHz

Res BW 100 kHz

#VBW 300 kHz

Span 20 MHz

Sweep 4 ms (401 pts)

Occupied Bandwidth

17.6972 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB

Transmit Freq Error

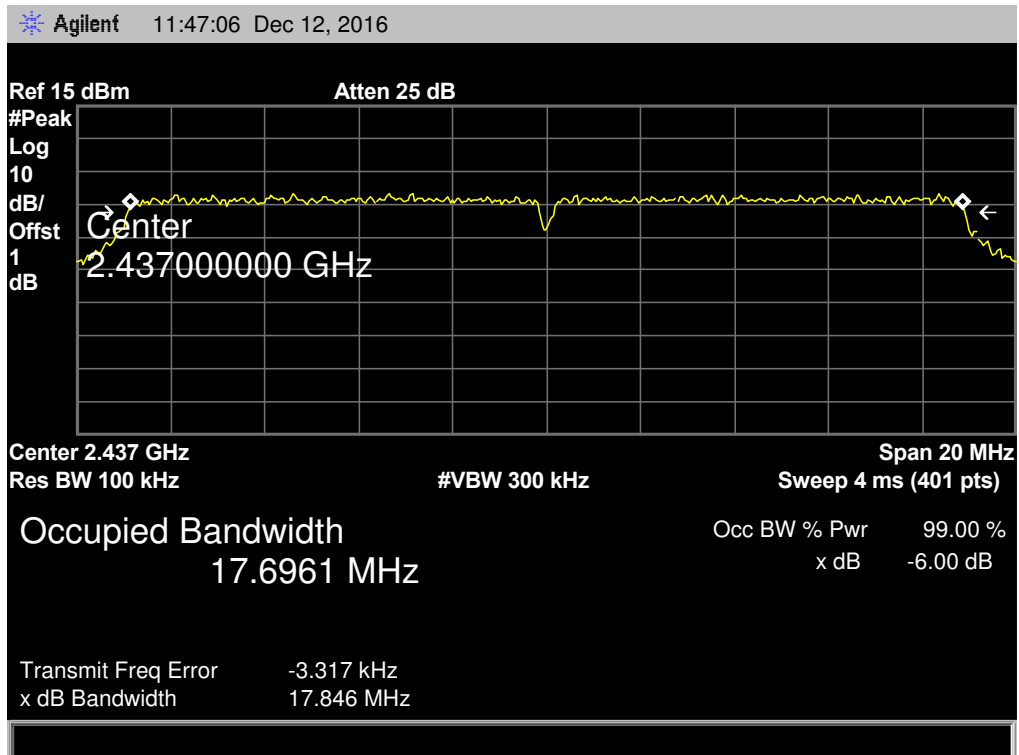
2.038 kHz

x dB Bandwidth

17.841 MHz

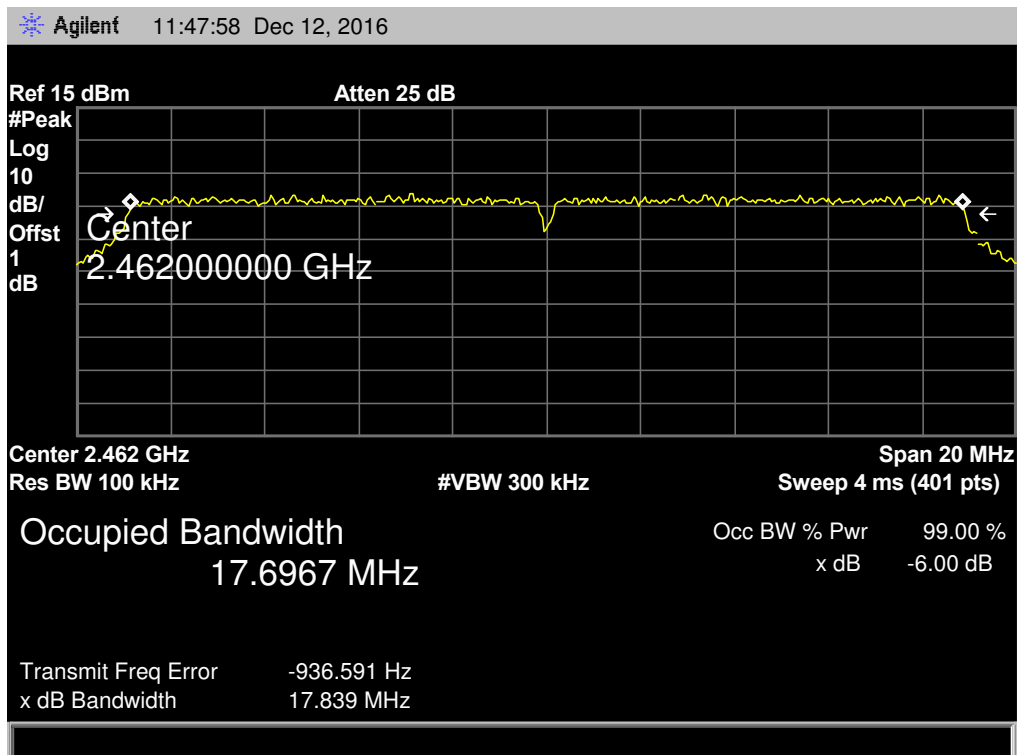
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

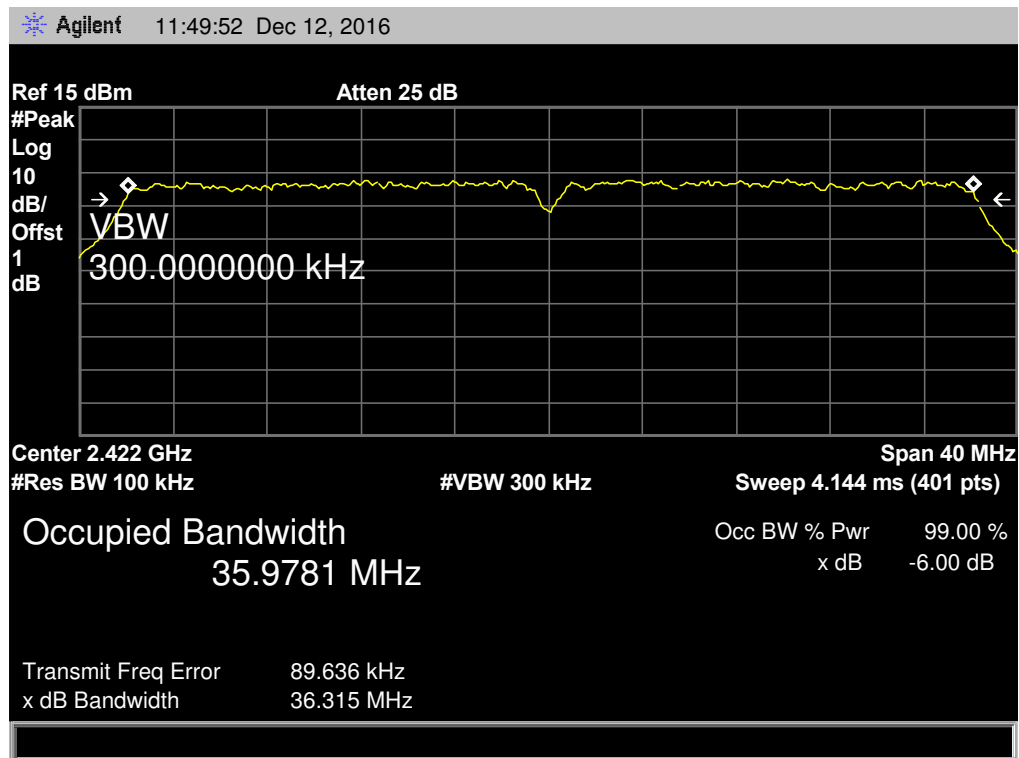
2462 MHz



EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11N(HT40) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2422	36.315	35.9781	>=0.5
2437	36.501	35.9599	
2452	36.459	35.9605	

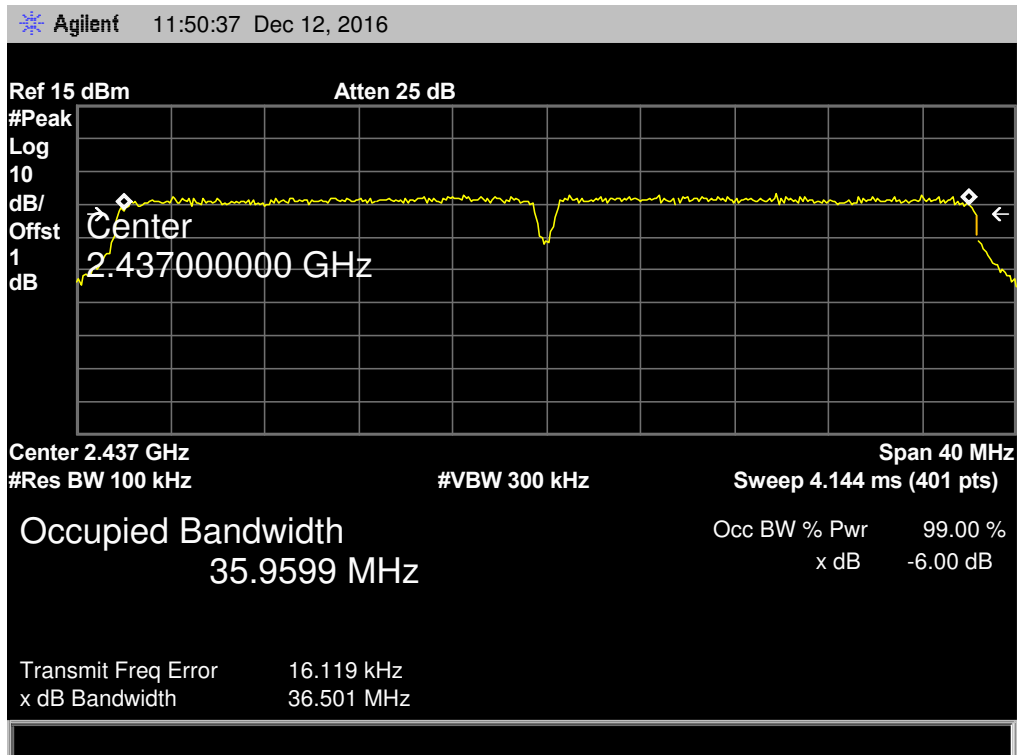
802.11N(HT40) Mode

2422 MHz



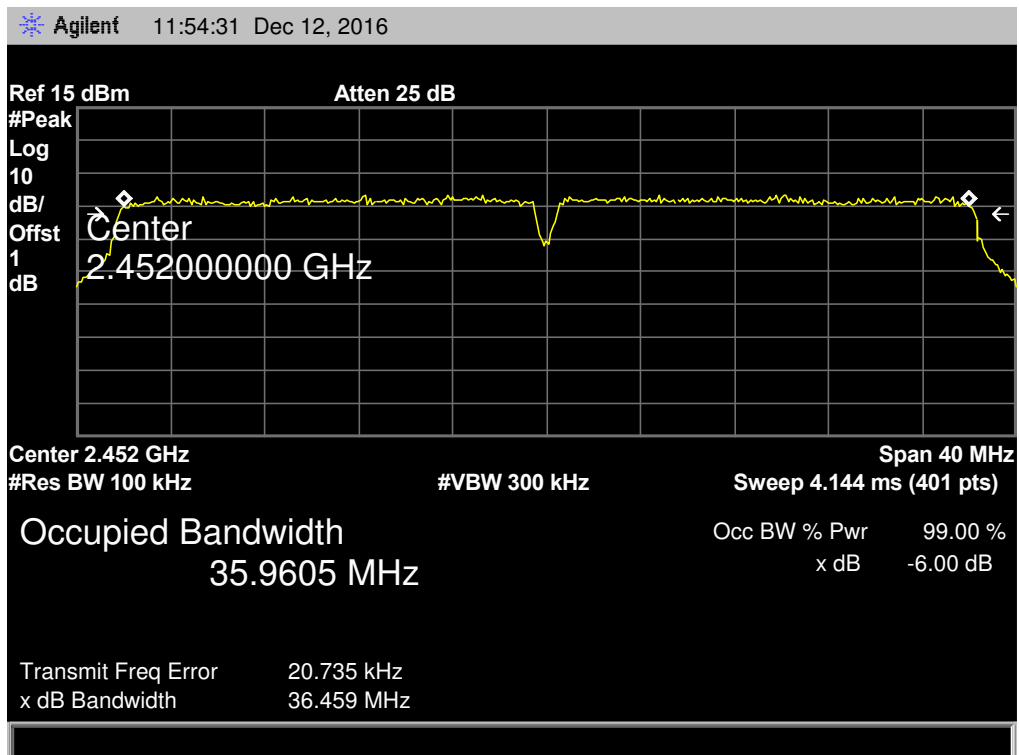
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



8. Peak Output Power Test

8.1 Test Standard and Limit

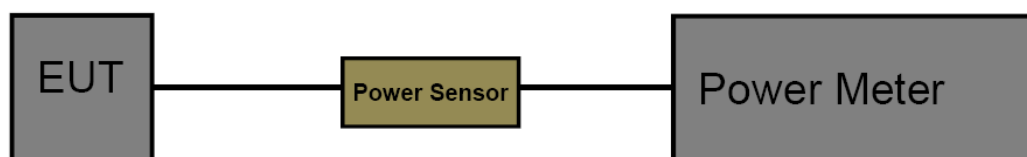
8.1.1 Test Standard

FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
Test Item	Limit	Frequency Range(MHz)
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

8.2 Test Setup



8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v03r05.

The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

8.4 EUT Operating Condition

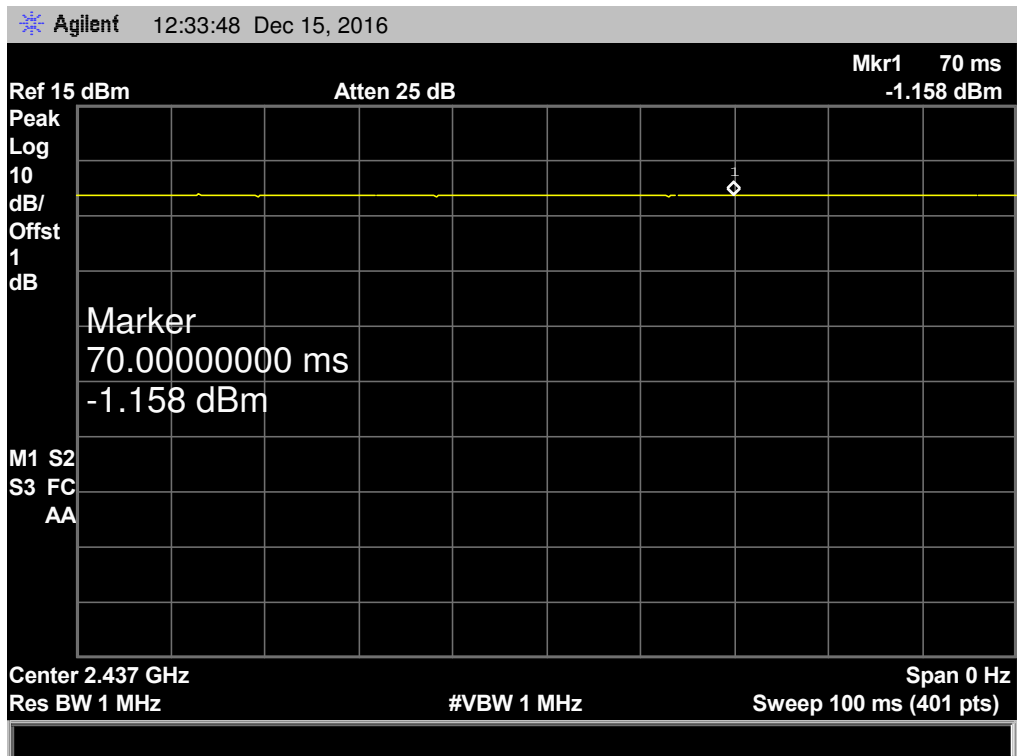
The EUT was set to continuously transmitting in the max power during the test.

8.5 Test Data

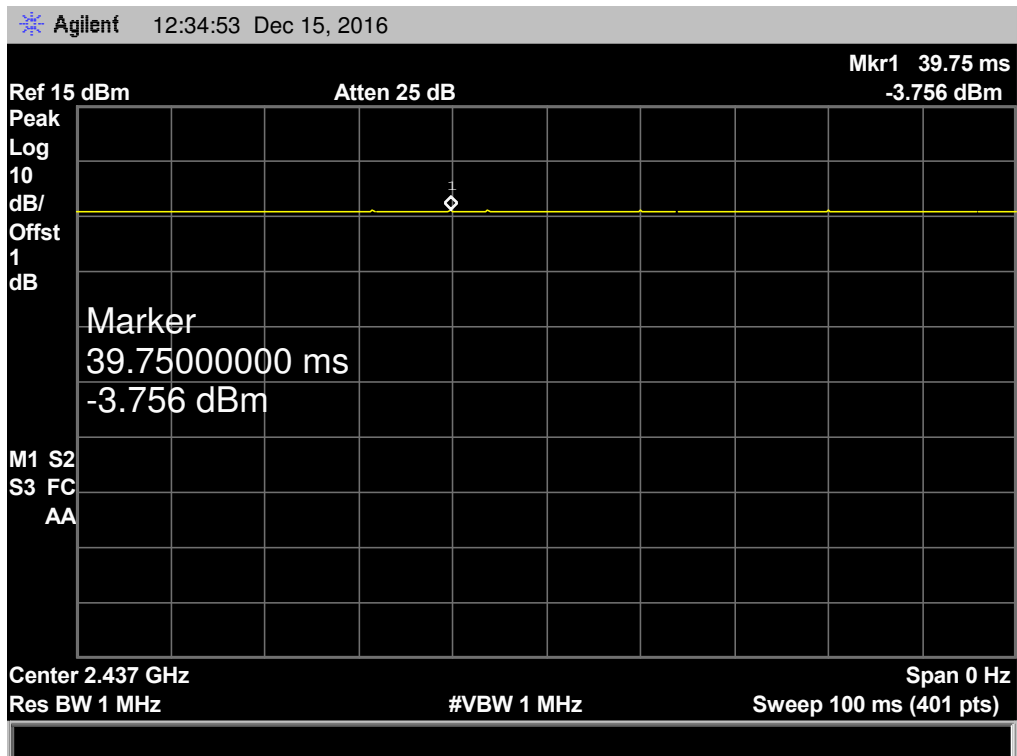
EUT:	Tablet PC	Model:	MOMO8 Quad
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	9.07	30
	2437	9.27	
	2462	9.26	
802.11g	2412	8.89	
	2437	8.93	
	2462	8.97	
802.11n (HT20)	2412	8.86	
	2437	8.82	
	2462	8.88	
802.11n (HT40)	2422	8.73	
	2437	8.72	
	2452	8.76	
Result: PASS			

Duty Cycle		
Mode	Channel frequency (MHz)	Test Result
802.11b	2412	>98%
	2437	
	2462	
802.11g	2412	
	2437	
	2462	
802.11n (HT20)	2412	
	2437	
	2462	
802.11n (HT40)	2422	
	2437	
	2452	
Please see below plots		

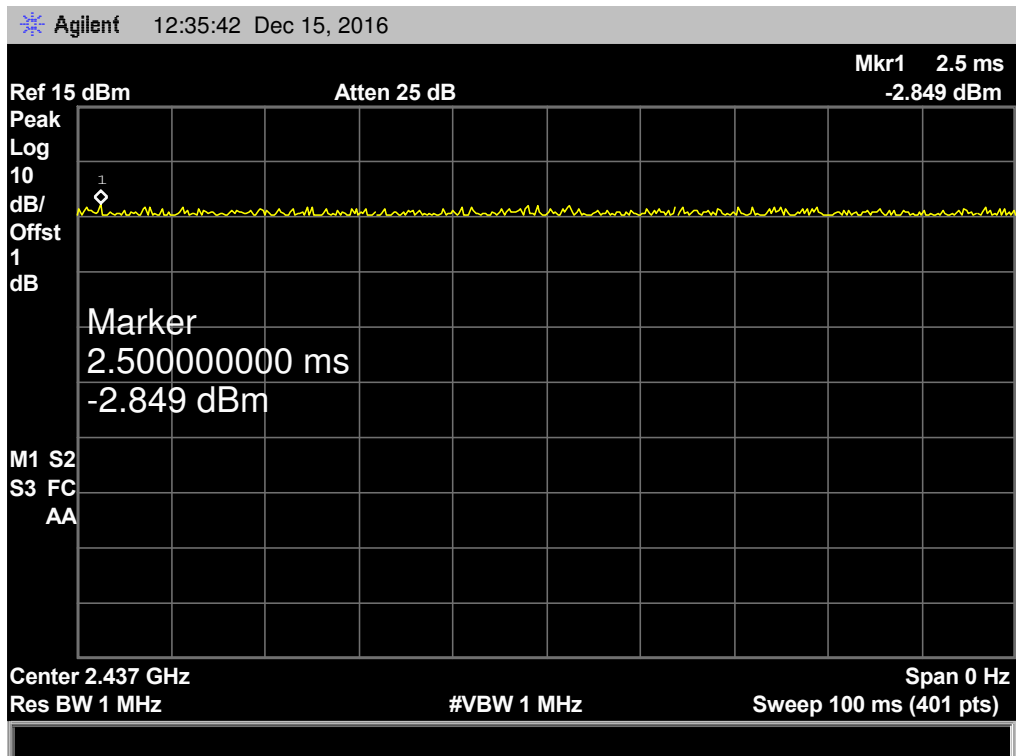
802.11 B Mode 2437 MHz



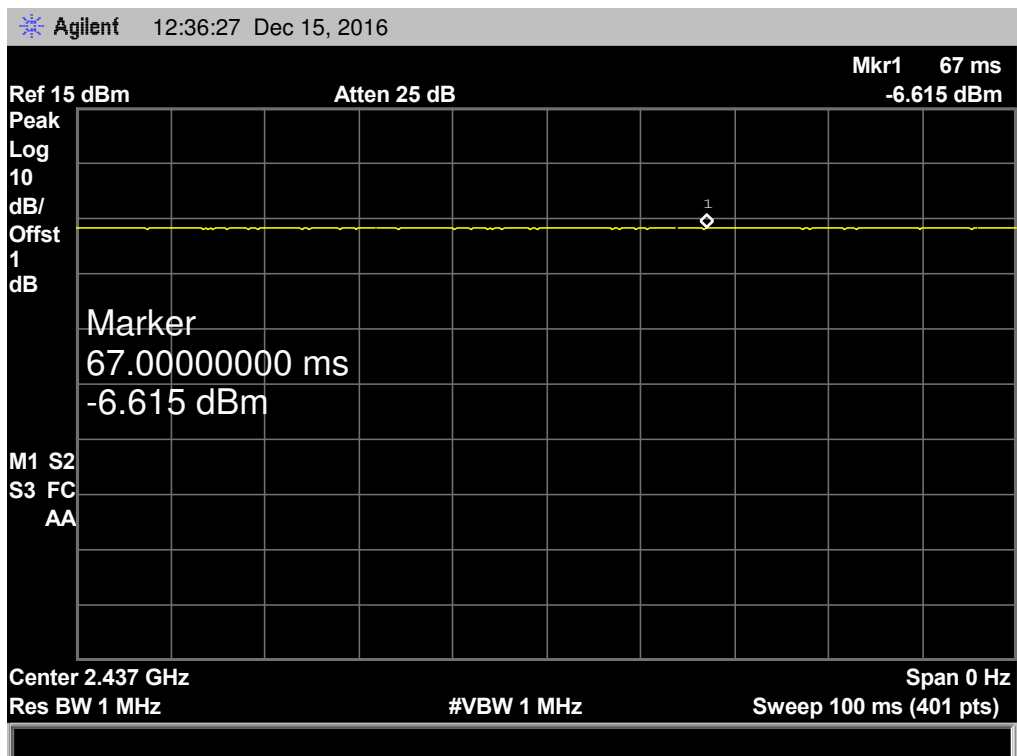
802.11 G Mode 2437 MHz



802.11 N(HT20) Mode 2437 MHz



802.11 N(HT40) Mode 2437 MHz



9. Power Spectral Density Test

9.1 Test Standard and Limit

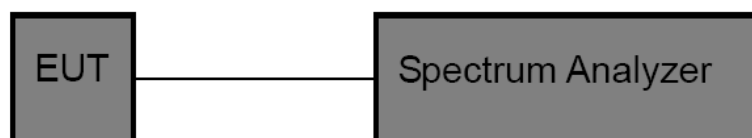
9.1.1 Test Standard

FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

9.2 Test Setup



9.3 Test Procedure

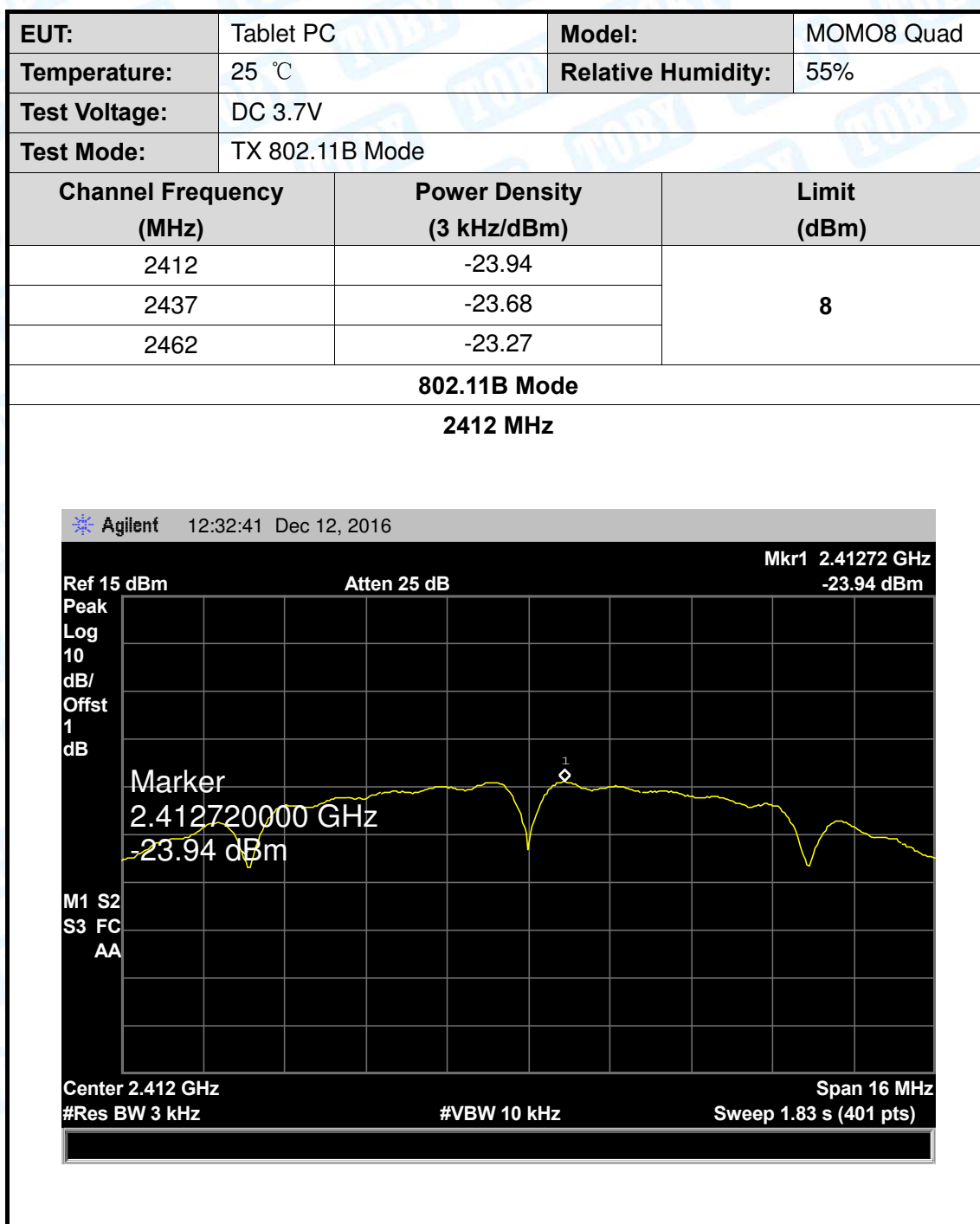
The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v03r05.

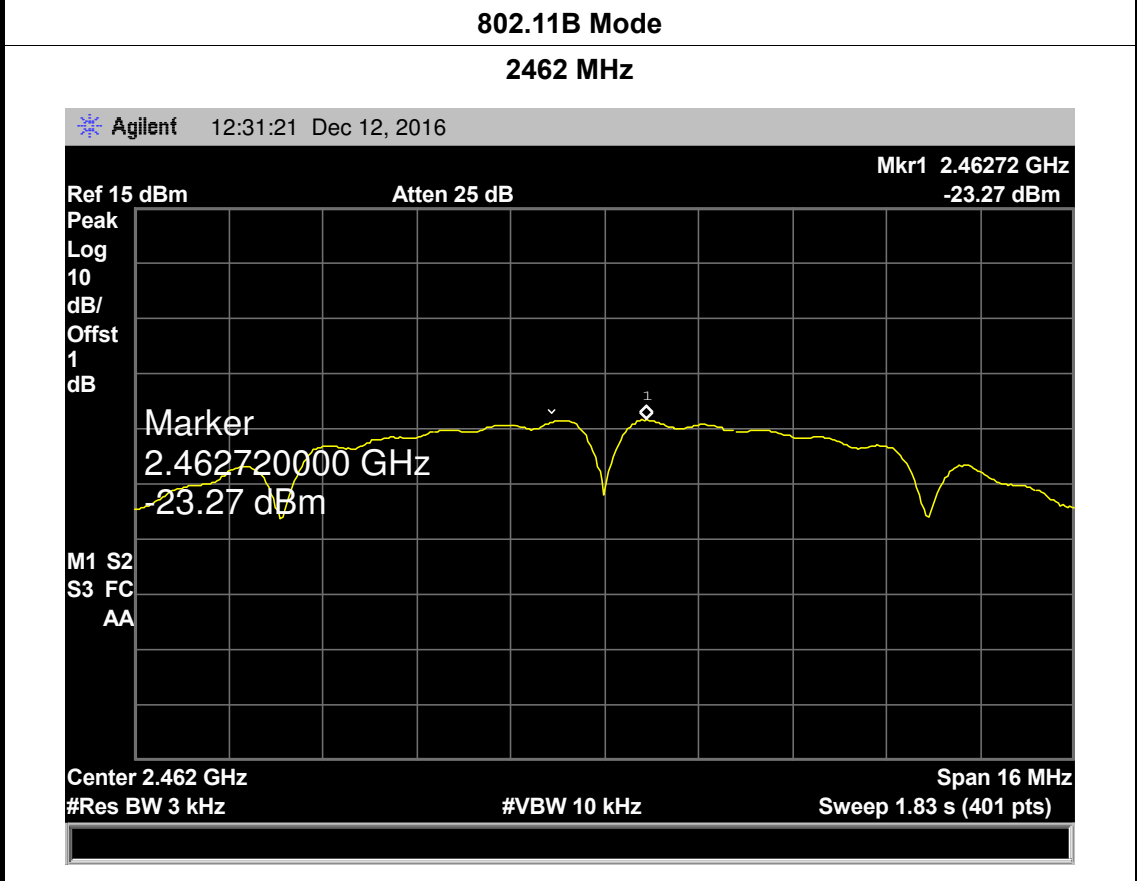
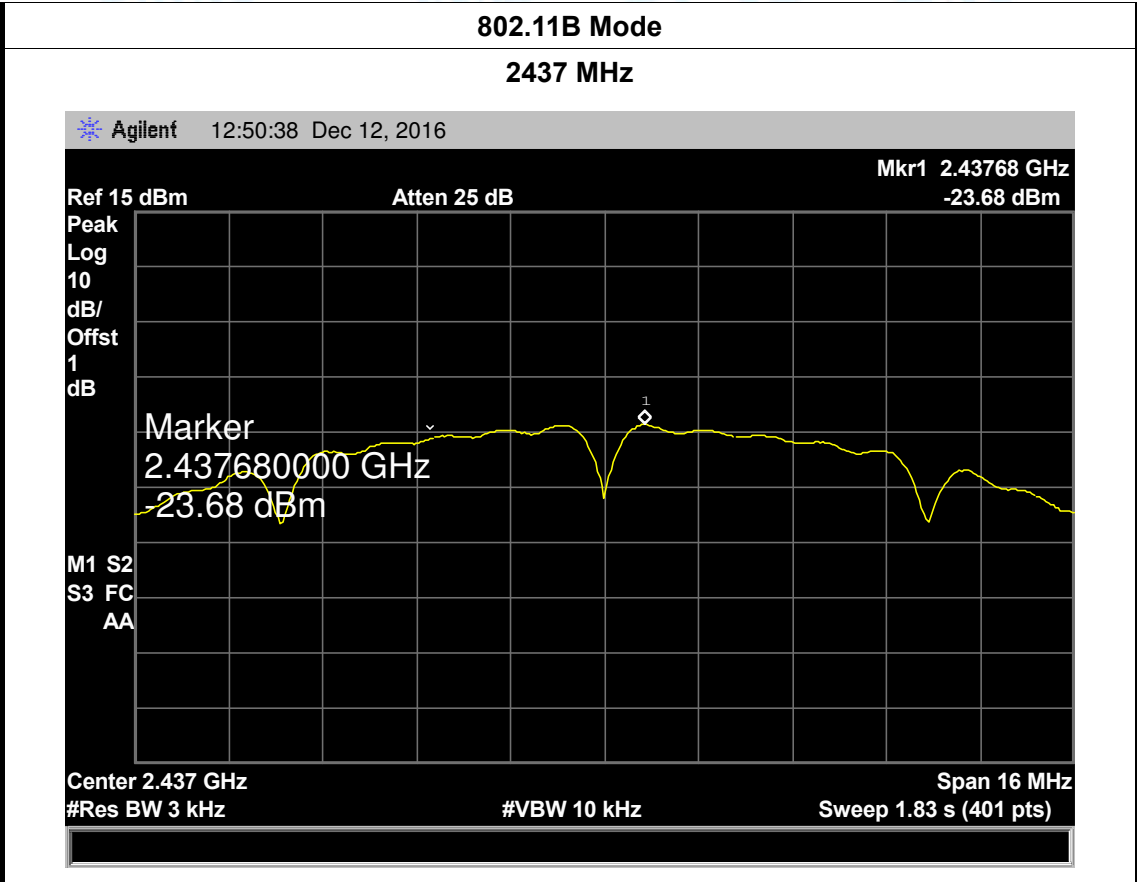
- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz
- (5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

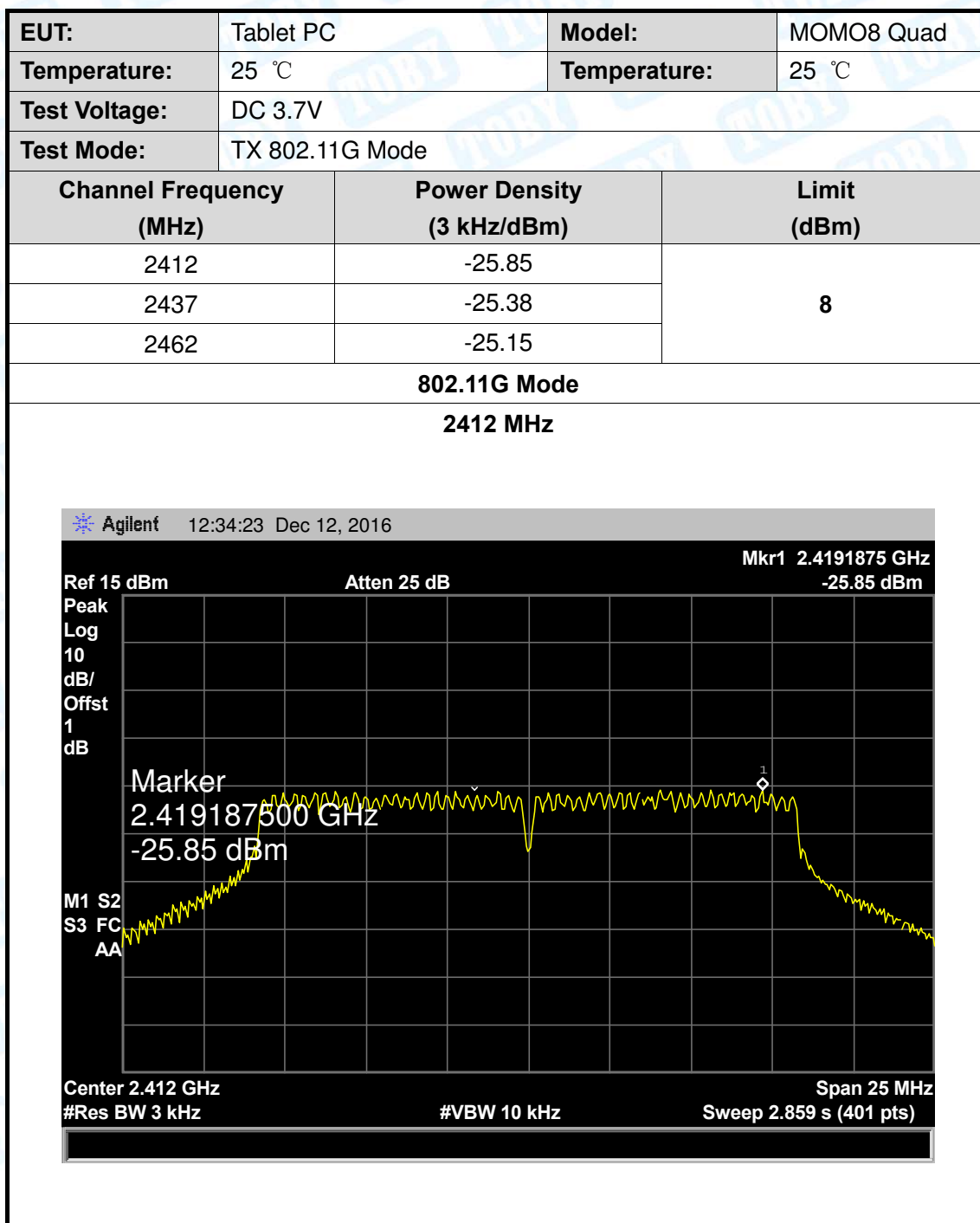
9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

9.5 Test Data

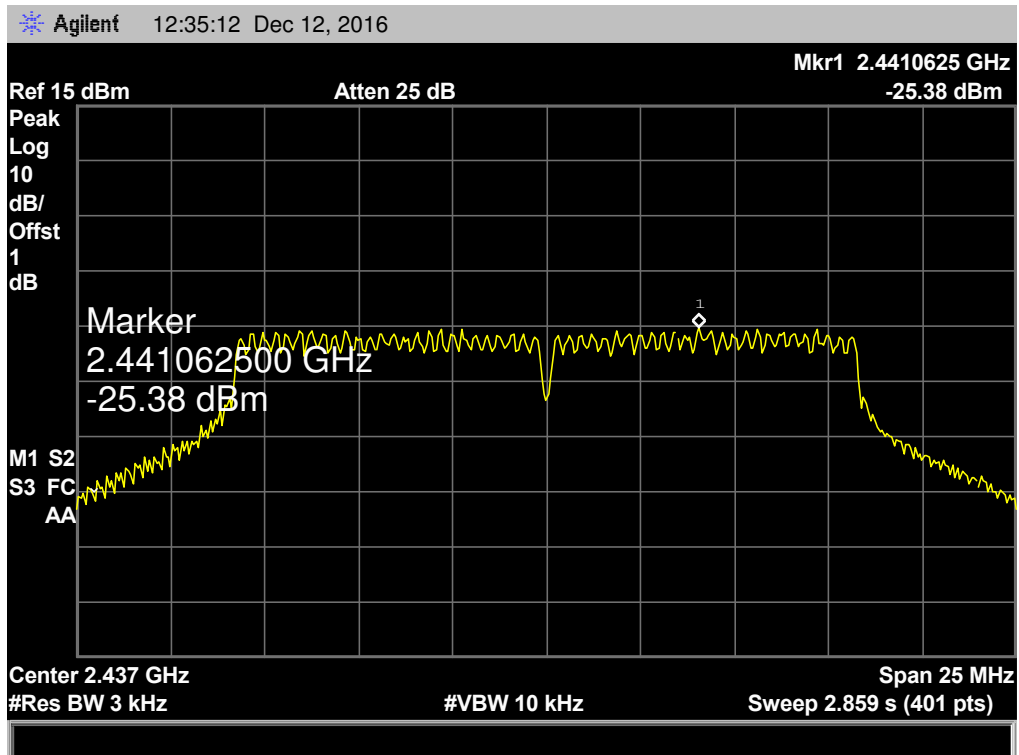






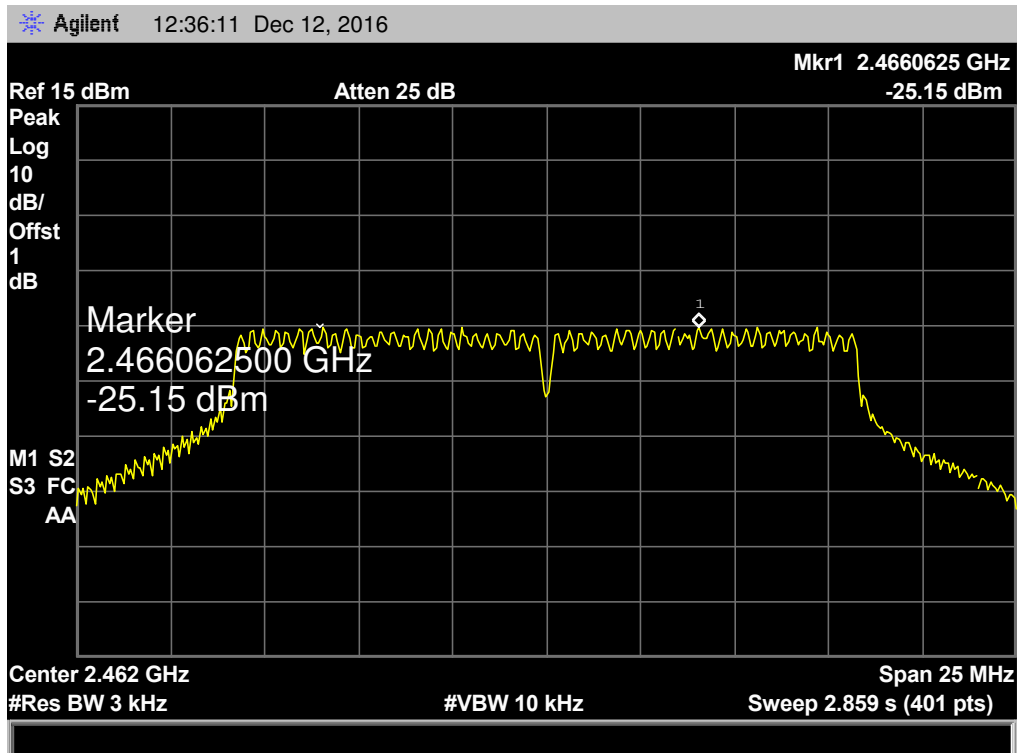
802.11G Mode

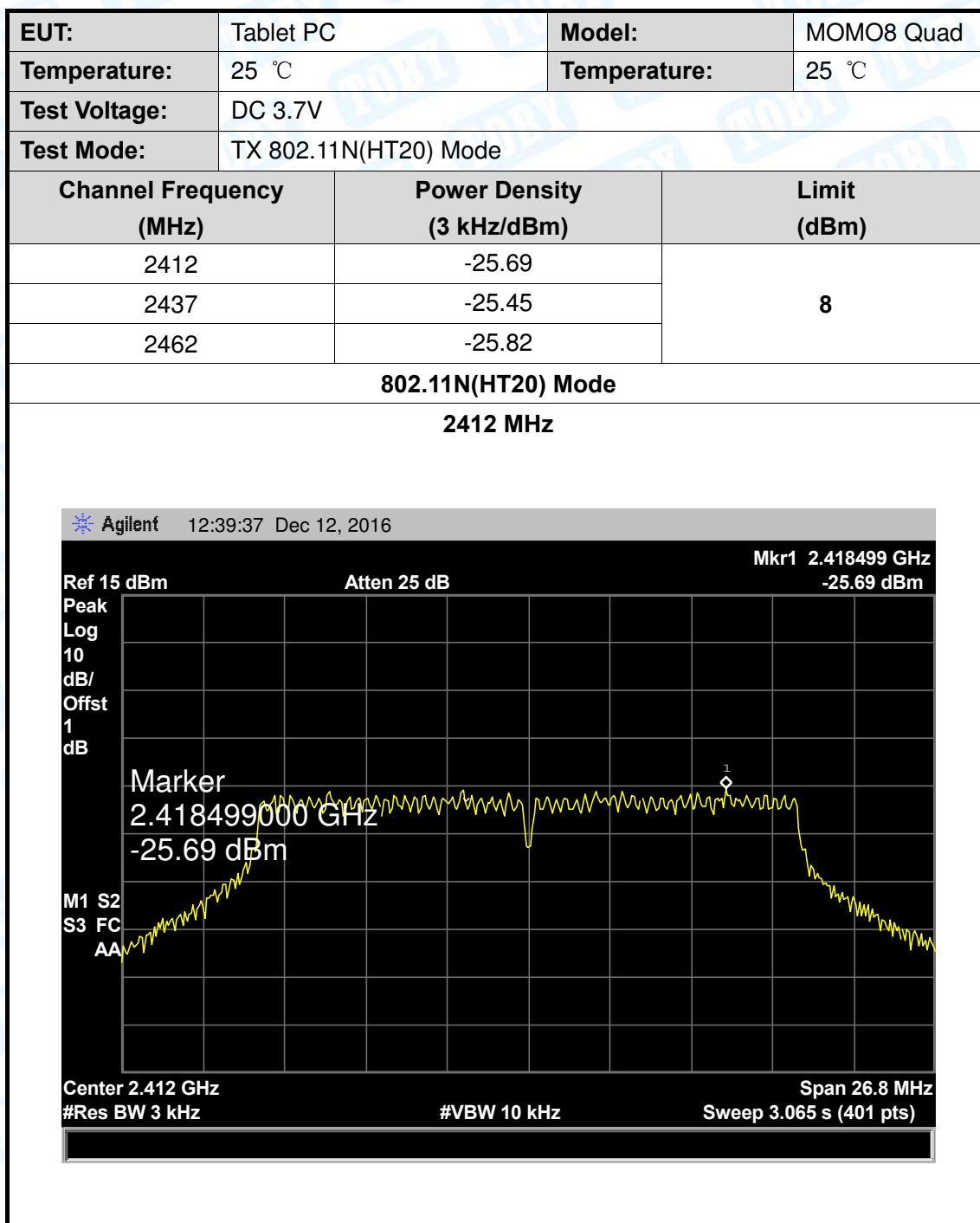
2437 MHz



802.11G Mode

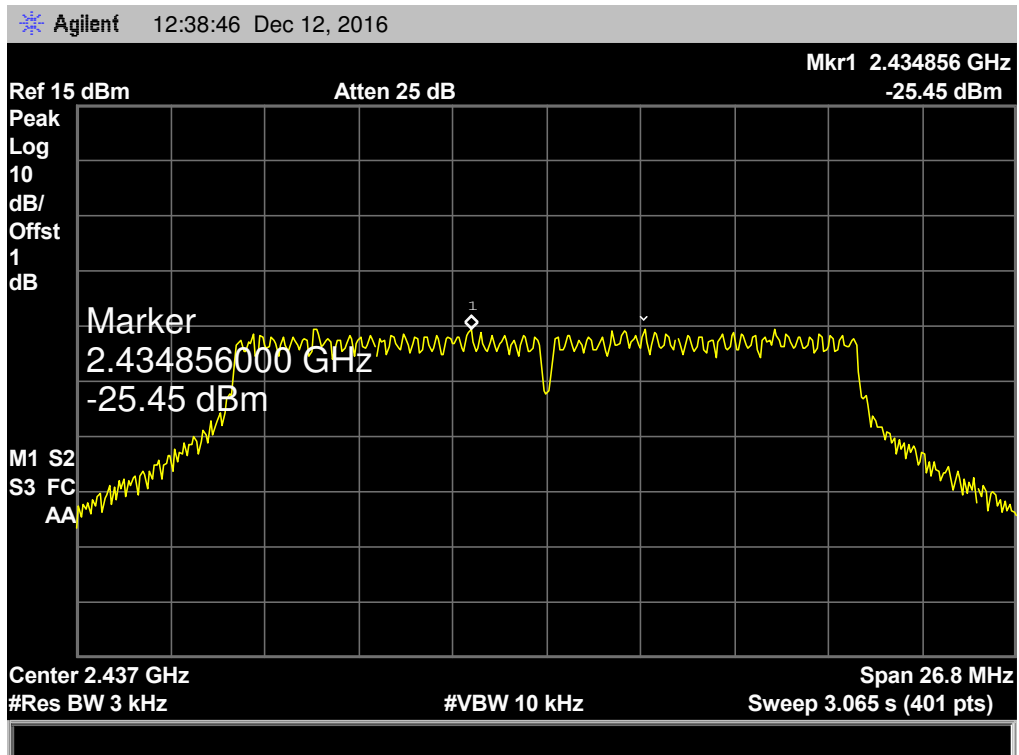
2462 MHz





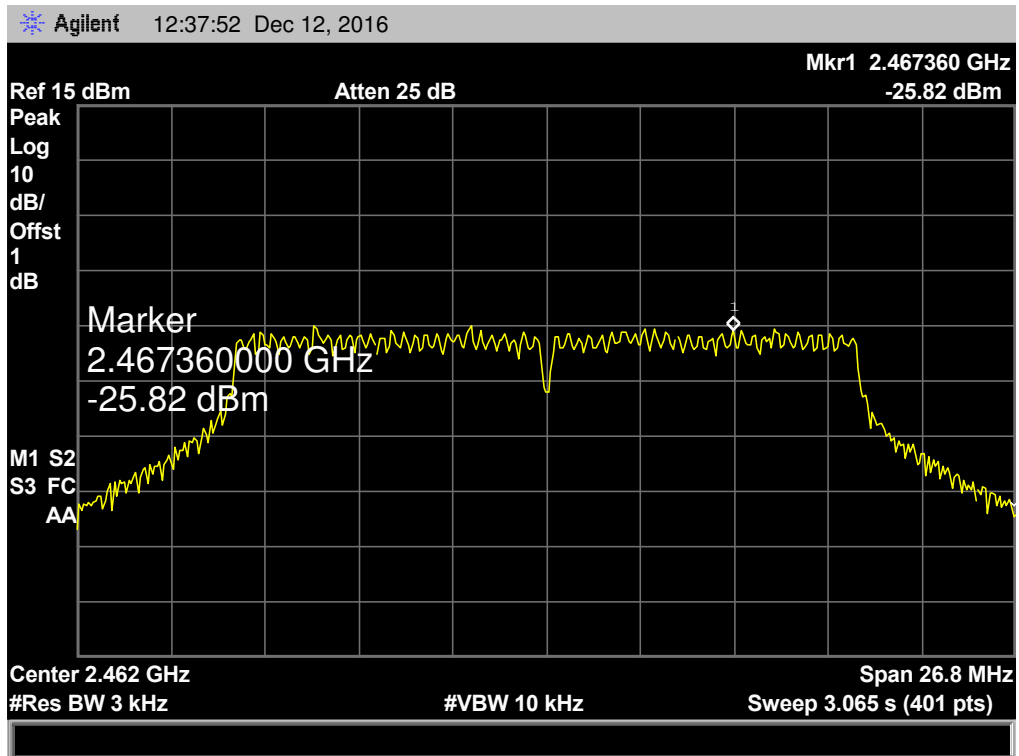
802.11N(HT20) Mode

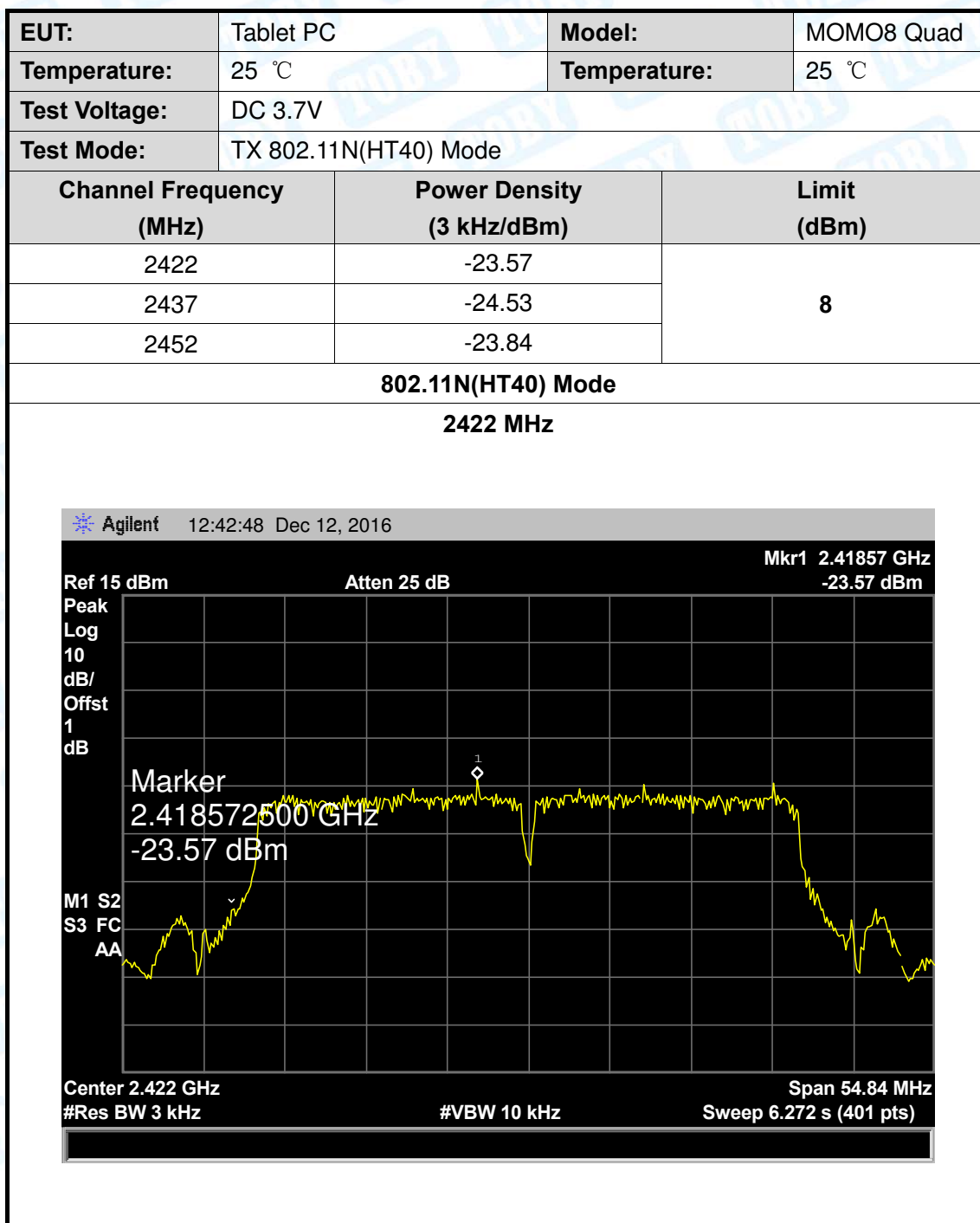
2437 MHz



802.11N(HT20) Mode

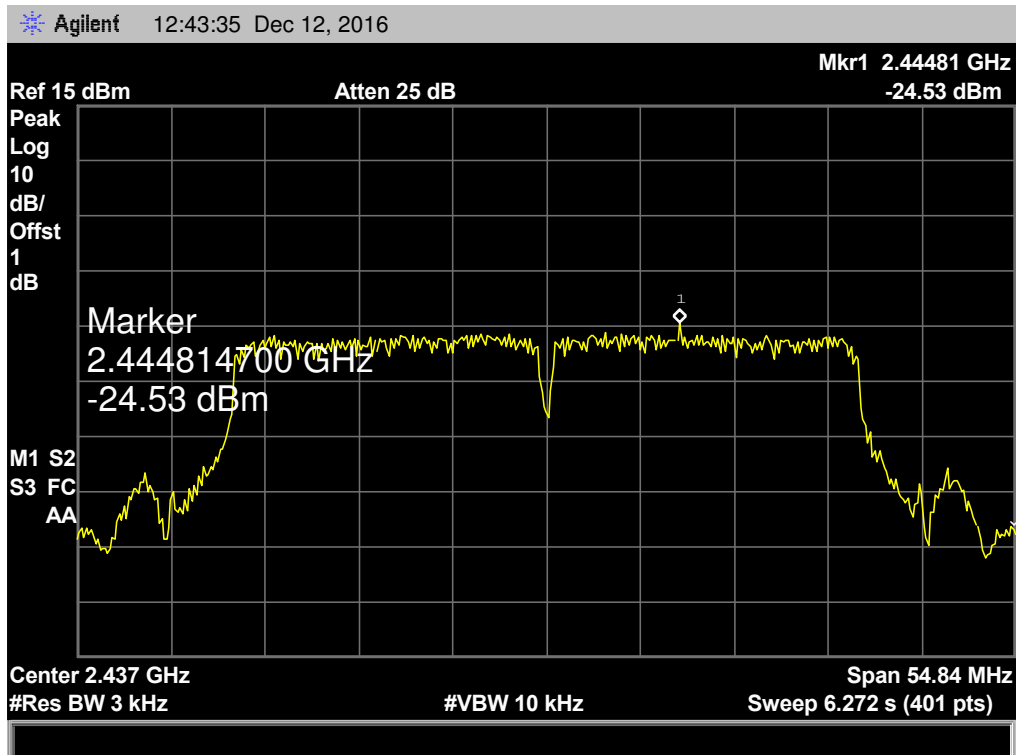
2462 MHz





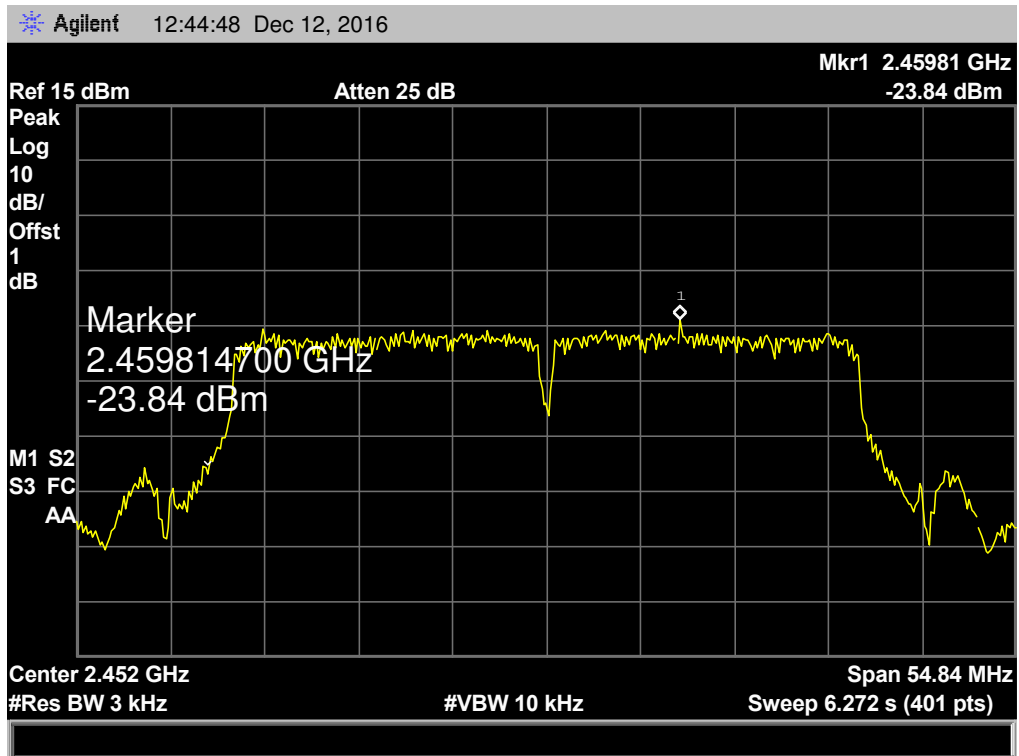
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



10. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard

FCC Part 15.203

10.1.2 Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 2 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

The EUT antenna is a PIFA Antenna. It complies with the standard requirement.

Antenna Type
☒ Permanent attached antenna
☐ Unique connector antenna
☐ Professional installation antenna

-----END OF REPORT-----