

FCC REPORT (WIFI)

Applicant: PAX Technology Limited

Address of Applicant: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

Equipment Under Test (EUT)

Product Name: Integrated Smart Terminal

Model No.: E600Mini

Trade mark: PAX

FCC ID: V5PE600MINI

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 03 Nov., 2021

Date of Test: 04 Nov., to 14 Dec., 2021

Date of report issued: 15 Dec., 2021

Test Result: PASS*

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

Authorized Signature:



Bruce Zhang
Laboratory Manager

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 and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	15 Dec., 2021	Original

Tested by:

Mike.ou
Test Engineer

Date:

15 Dec., 2021

Reviewed by:

Winner Zhang
Project Engineer

Date:

15 Dec., 2021

3 Contents

	Page
1 COVER PAGE.....	1
2 VERSION.....	2
3 CONTENTS.....	3
4 TEST SUMMARY.....	4
5 GENERAL INFORMATION.....	5
5.1 CLIENT INFORMATION.....	5
5.2 GENERAL DESCRIPTION OF E.U.T.....	5
5.3 TEST ENVIRONMENT AND MODE.....	6
5.4 DESCRIPTION OF SUPPORT UNITS.....	6
5.5 MEASUREMENT UNCERTAINTY.....	6
5.6 ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD.....	6
5.7 LABORATORY FACILITY.....	7
5.8 LABORATORY LOCATION.....	7
5.9 TEST INSTRUMENTS LIST.....	7
6 TEST RESULTS AND MEASUREMENT DATA.....	9
6.1 ANTENNA REQUIREMENT.....	9
6.2 CONDUCTED EMISSION.....	10
6.3 CONDUCTED OUTPUT POWER.....	13
6.4 OCCUPY BANDWIDTH.....	14
6.5 POWER SPECTRAL DENSITY.....	15
6.6 BAND EDGE.....	16
6.6.1 Conducted Emission Method.....	16
6.6.2 Radiated Emission Method.....	17
6.7 SPURIOUS EMISSION.....	34
6.7.1 Conducted Emission Method.....	34
6.7.2 Radiated Emission Method.....	35
APPENDIX A - 2.4G WIFI.....	43
A.1 DUTY CYCLE.....	43
A.2 MAXIMUM CONDUCTED OUTPUT POWER.....	50
A.3 -6DB BANDWIDTH.....	51
A.4 OCCUPIED CHANNEL BANDWIDTH.....	58
A.5 MAXIMUM POWER SPECTRAL DENSITY LEVEL.....	65
A.6 BAND EDGE.....	72
A.7 CONDUCTED RF SPURIOUS EMISSION.....	81

4 Test Summary

Test Items	Section in CFR 47	Result
Antenna requirement	15.203 & 15.247 (b)	Pass
AC Power Line Conducted Emission	15.207	Pass
Duty Cycle	ANSI C63.10-2013	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247 (d)	Pass
Spurious Emission	15.205 15.209	Pass
<p>Remark:</p> <ol style="list-style-type: none"> 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable. 3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer). 		
Test Method:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02	

5 General Information

5.1 Client Information

Applicant:	PAX Technology Limited
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong
Manufacturer:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.

5.2 General Description of E.U.T.

Product Name:	Integrated Smart Terminal
Model No.:	E600Mini
Operation Frequency:	2412MHz~2462MHz: 802.11b/802.11g/802.11n(HT20) 2422MHz~2452MHz: 802.11n(HT40)
Channel numbers:	11: 802.11b/802.11g/802.11(HT20) 7: 802.11n(HT40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1.5dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V, 6100mAh
AC adapter:	Model: TPD-71A120150UU01 Input: AC100-240V, 50/60Hz, 0.6A Output: DC 3.6-6.0V, 3.0A, 18.0W DC 6.0-9.0V, 2.0A, 18.0W DC 9.0-12.0V, 1.5A, 18.0W
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel for 802.11b/g/n(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

- Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel. Channel 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest Channel.

5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation
<p>Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p> <p>We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:</p>	
Per-scan all kind of data rate, the follow list were the worst case.	
Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	6.5Mbps
802.11n(HT40)	13.5Mbps

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://www.ccis-cb.com>

5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022
EMI Test Software	Tonscend	TS+	Version:3.0.0.1		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI 3	101189	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ENV432	101602	04-06-2021	04-05-2022
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	Version: 6.110919b		

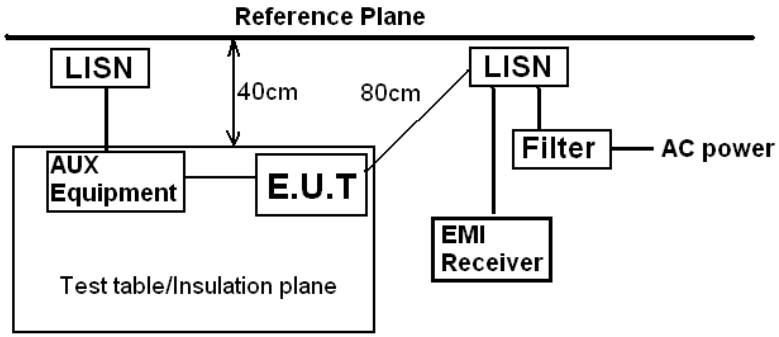
Conducted method:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Vector Signal Generator	Keysight	N5182B	MY59101009	10-27-2021	10-26-2022
Analog Signal Generator	Keysight	N5173B	MY59100765	10-27-2021	10-26-2022
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-19-2021	11-18-2022
Simulated Station	Rohde & Schwarz	CMW270	102335	10-27-2021	10-26-2022
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A
PDU	MWRF-test	XY-G10	N/A	N/A	N/A
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2023
Temperature Humidity Chamber	Deli	8840	N/A	03-08-2021	03-07-2022
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0		

6 Test results and Measurement Data

6.1 Antenna requirement

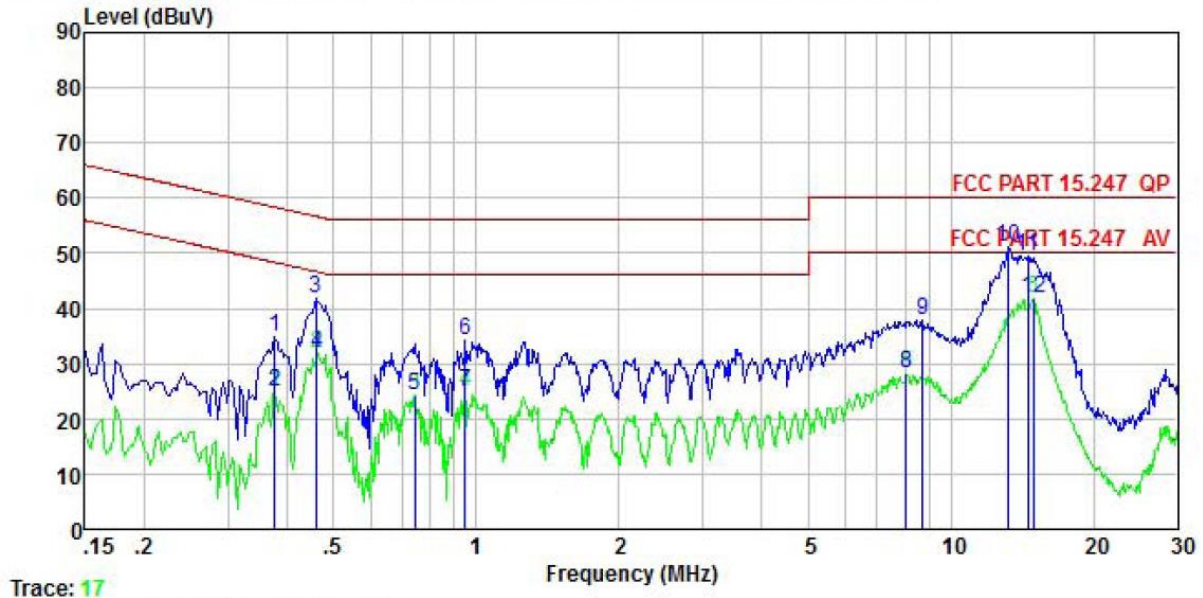
Standard requirement:	FCC Part 15 C Section 15.203 /247(b)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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.</p> <p>15.247(b) (4) requirement: (4) The 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. Except as shown in paragraph (c) of this section, 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)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
E.U.T Antenna:	
<p>The Wi-Fi antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 1.5 dBi.</p>	

6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9 kHz, VBW=30 kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test procedure	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement. 		
Test setup:	 <p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test Instruments:	Refer to section 5.9 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Data:

Product name:	Integrated Smart Terminal	Product model:	E600Mini
Test by:	Mike	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp.: 22.5°C Humi.: 55%



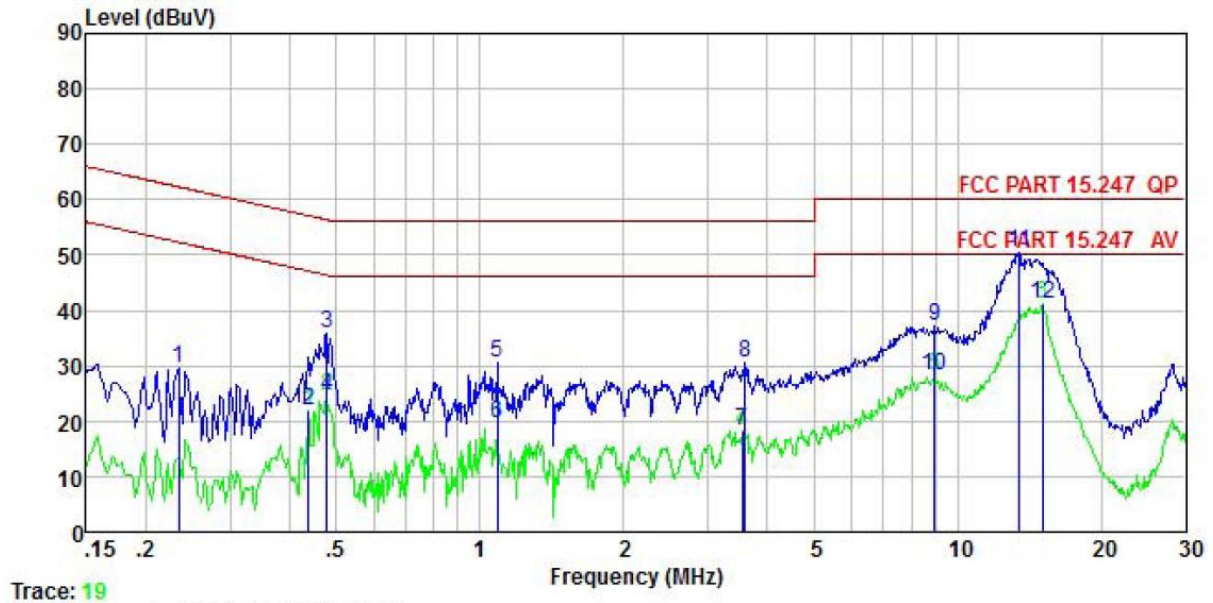
Trace: 17

	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.377	24.18	10.27	0.27	0.03	34.75	58.34	-23.59	QP
2	0.377	14.43	10.27	0.27	0.03	25.00	48.34	-23.34	Average
3	0.459	31.68	10.29	-0.06	0.03	41.94	56.71	-14.77	QP
4	0.461	21.76	10.29	-0.06	0.03	32.02	46.67	-14.65	Average
5	0.743	14.15	10.30	-0.26	0.03	24.22	46.00	-21.78	Average
6	0.948	23.49	10.32	0.32	0.05	34.18	56.00	-21.82	QP
7	0.948	14.12	10.32	0.32	0.05	24.81	46.00	-21.19	Average
8	8.062	15.89	10.53	1.57	0.10	28.09	50.00	-21.91	Average
9	8.729	25.60	10.56	1.71	0.11	37.98	60.00	-22.02	QP
10	13.197	37.28	10.72	3.08	0.11	51.19	60.00	-8.81	QP
11	14.517	35.20	10.76	3.48	0.13	49.57	60.00	-10.43	QP
12	14.907	27.19	10.77	3.58	0.14	41.68	50.00	-8.32	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

Product name:	Integrated Smart Terminal	Product model:	E600Mini
Test by:	Mike	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp.: 22.5°C Humi.: 55%

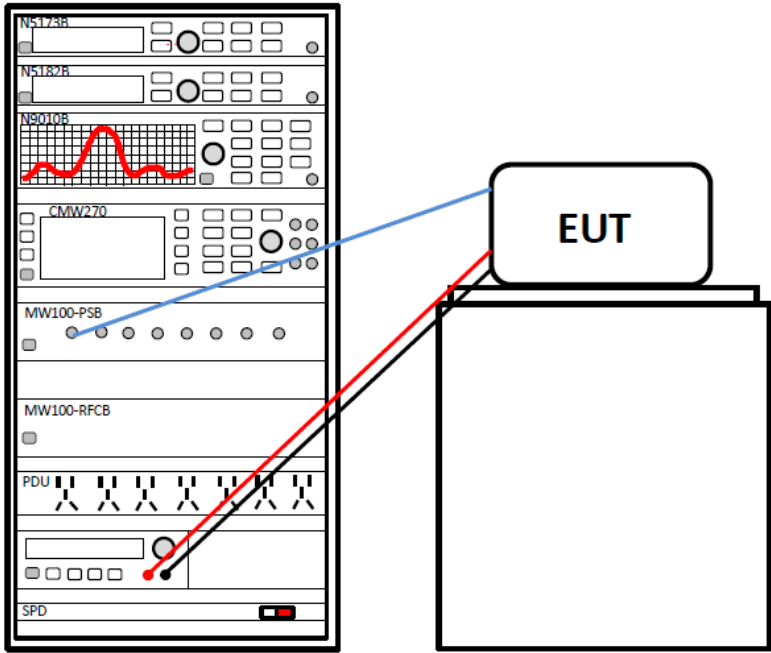


	Read Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.234	19.42	10.23	0.00	0.02	29.67	62.30	-32.63	QP
2	0.437	11.68	10.27	-0.02	0.03	21.96	47.11	-25.15	Average
3	0.479	25.40	10.28	0.01	0.03	35.72	56.36	-20.64	QP
4	0.479	14.25	10.28	0.01	0.03	24.57	46.36	-21.79	Average
5	1.088	20.03	10.31	0.09	0.07	30.50	56.00	-25.50	QP
6	1.088	8.97	10.31	0.09	0.07	19.44	46.00	-26.56	Average
7	3.547	7.51	10.36	0.43	0.08	18.38	46.00	-27.62	Average
8	3.584	19.81	10.36	0.44	0.08	30.69	56.00	-25.31	QP
9	8.964	25.27	10.56	1.22	0.11	37.16	60.00	-22.84	QP
10	8.964	16.40	10.56	1.22	0.11	28.29	50.00	-21.71	Average
11	13.479	36.95	10.69	2.64	0.11	50.39	60.00	-9.61	QP
12	15.066	27.14	10.73	3.12	0.14	41.13	50.00	-8.87	Average

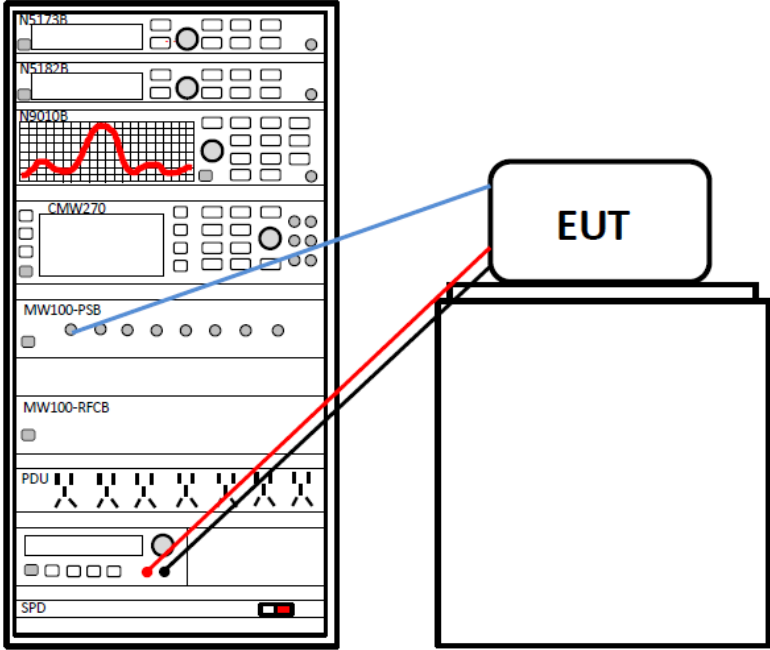
Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

6.3 Conducted Output Power

Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A

6.4 Occupy Bandwidth

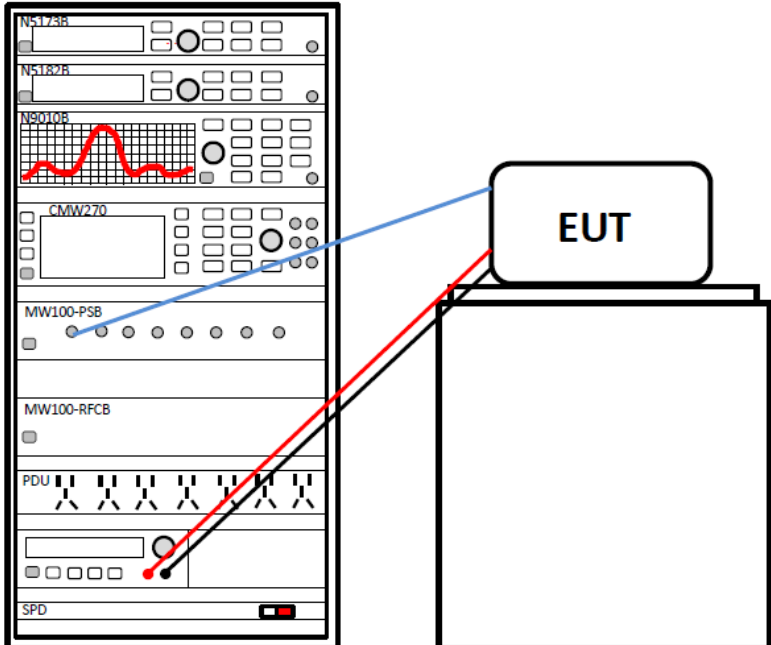
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)
Limit:	>500kHz
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A

6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)
Limit:	8dBm/3kHz
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A

6.6 Band Edge

6.6.1 Conducted Emission Method

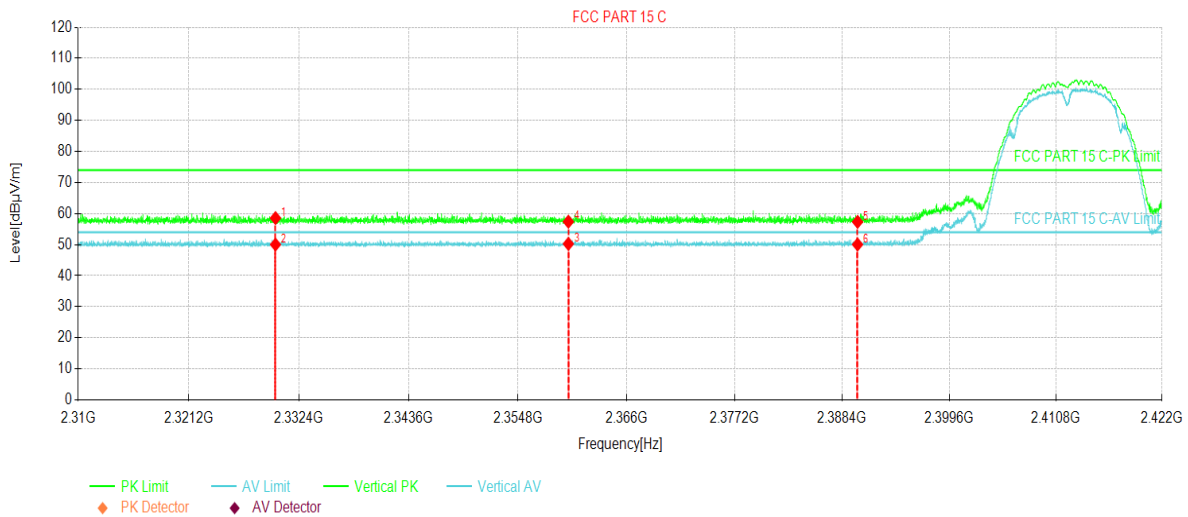
Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. 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.
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A

6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205				
Test Frequency Range:	2310 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz				
Test Distance:	3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
RMS		1MHz	3MHz	Average Value	
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	Above 1GHz	54.00		Average Value	
		74.00		Peak Value	
Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 				
Test setup:					
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

802.11b mode:

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

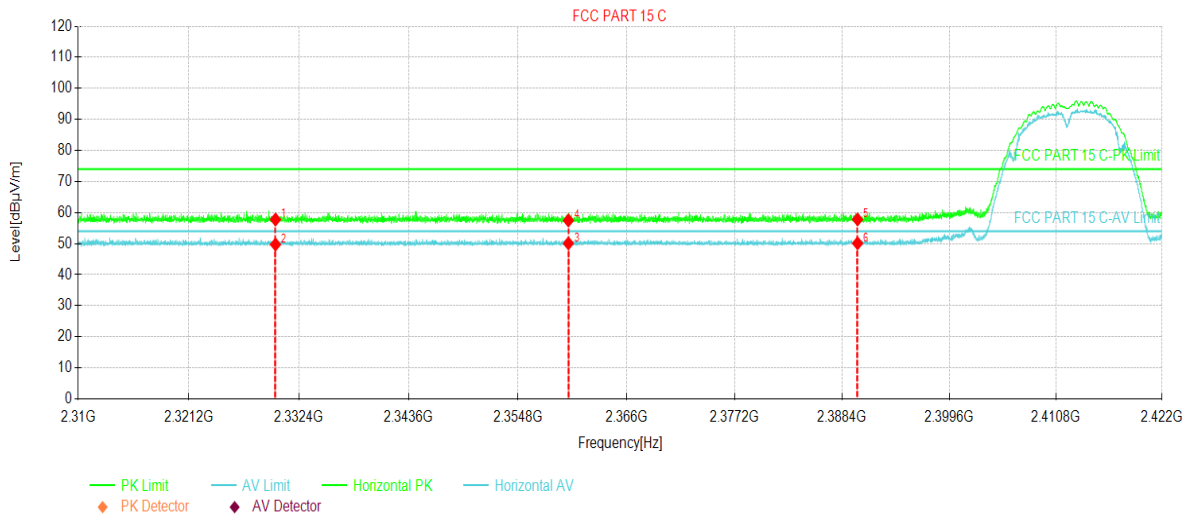


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2330.00	23.13	58.54	35.41	74.00	15.46	PK	Vertical
2	2330.00	14.61	50.02	35.41	54.00	3.98	AV	Vertical
3	2360.00	14.62	50.25	35.63	54.00	3.75	AV	Vertical
4	2360.00	21.75	57.38	35.63	74.00	16.62	PK	Vertical
5	2390.00	21.50	57.34	35.84	74.00	16.66	PK	Vertical
6	2390.00	14.20	50.04	35.84	54.00	3.96	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

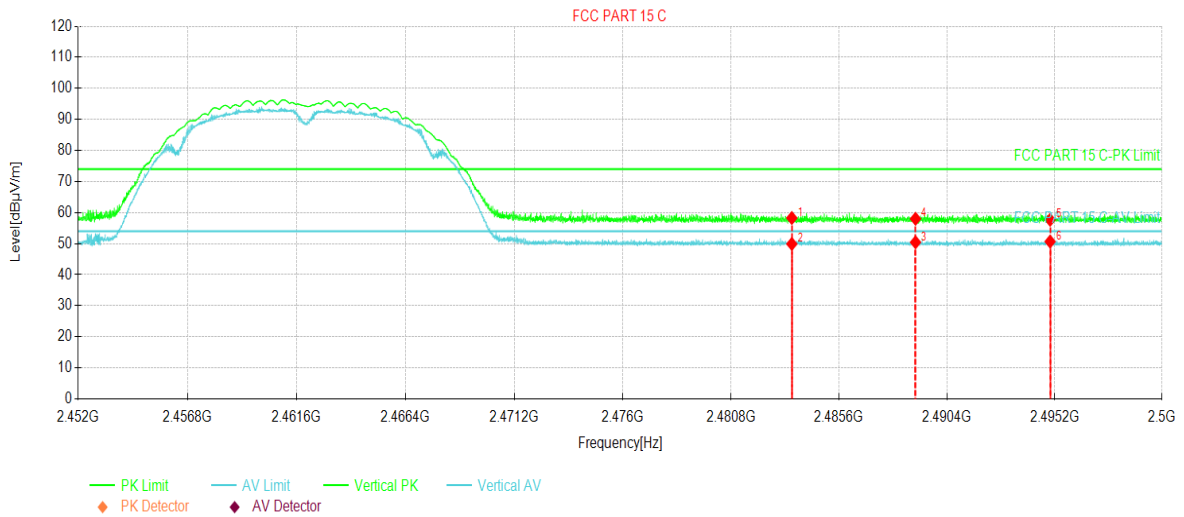


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2330.00	22.35	57.76	35.41	74.00	16.24	PK	Horizontal
2	2330.00	14.32	49.73	35.41	54.00	4.27	AV	Horizontal
3	2360.00	14.45	50.08	35.63	54.00	3.92	AV	Horizontal
4	2360.00	21.84	57.47	35.63	74.00	16.53	PK	Horizontal
5	2390.00	21.95	57.79	35.84	74.00	16.21	PK	Horizontal
6	2390.00	14.26	50.10	35.84	54.00	3.90	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

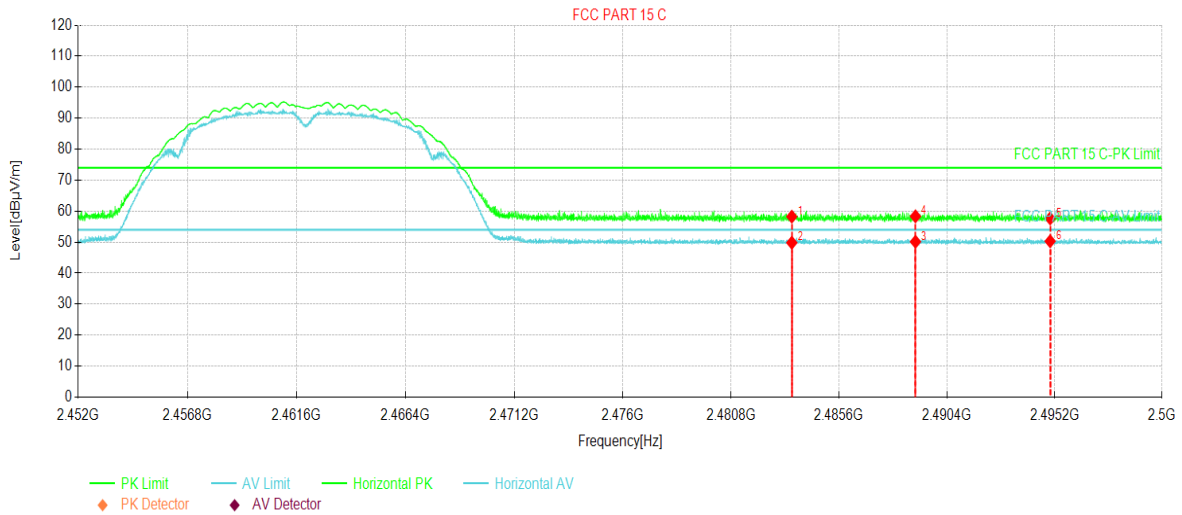


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.54	58.26	35.72	74.00	15.74	PK	Vertical
2	2483.50	14.18	49.90	35.72	54.00	4.10	AV	Vertical
3	2489.00	14.71	50.42	35.71	54.00	3.58	AV	Vertical
4	2489.00	22.29	58.00	35.71	74.00	16.00	PK	Vertical
5	2495.00	21.99	57.68	35.69	74.00	16.32	PK	Vertical
6	2495.00	14.97	50.66	35.69	54.00	3.34	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%



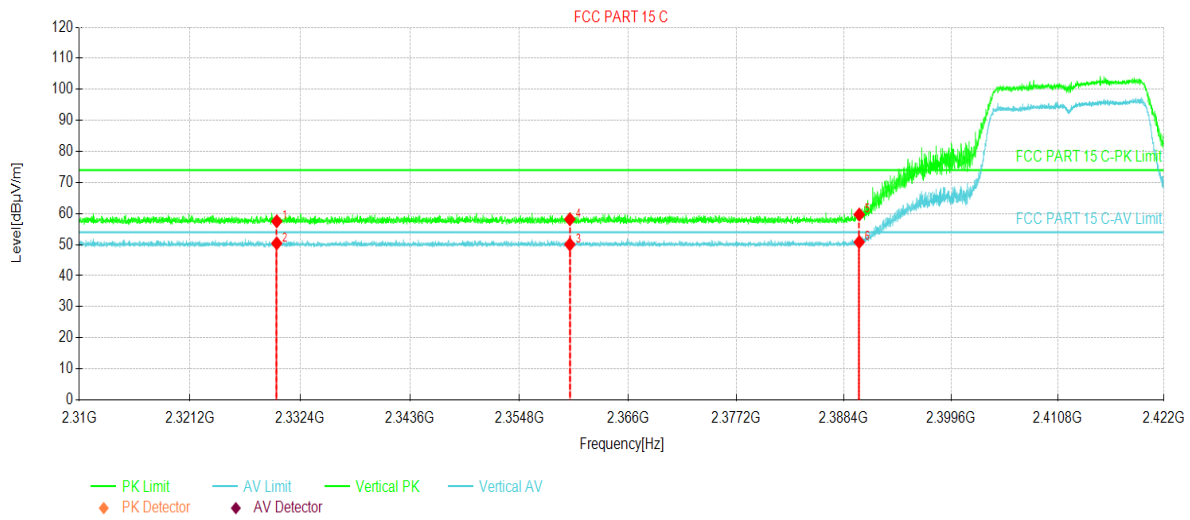
NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.52	58.24	35.72	74.00	15.76	PK	Horizontal
2	2483.50	14.10	49.82	35.72	54.00	4.18	AV	Horizontal
3	2489.00	14.42	50.13	35.71	54.00	3.87	AV	Horizontal
4	2489.00	22.62	58.33	35.71	74.00	15.67	PK	Horizontal
5	2495.00	21.96	57.65	35.69	74.00	16.35	PK	Horizontal
6	2495.00	14.61	50.30	35.69	54.00	3.70	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

802.11g mode:

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

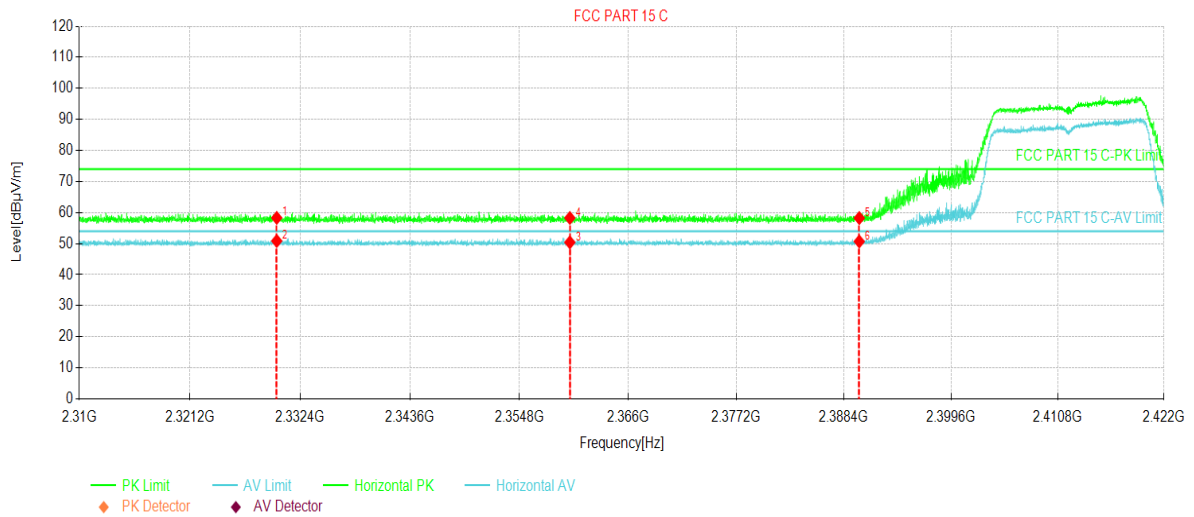


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2330.00	22.09	57.50	35.41	74.00	16.50	PK	Vertical
2	2330.00	15.00	50.41	35.41	54.00	3.59	AV	Vertical
3	2360.00	14.43	50.06	35.63	54.00	3.94	AV	Vertical
4	2360.00	22.55	58.18	35.63	74.00	15.82	PK	Vertical
5	2390.00	23.84	59.68	35.84	74.00	14.32	PK	Vertical
6	2390.00	14.99	50.83	35.84	54.00	3.17	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

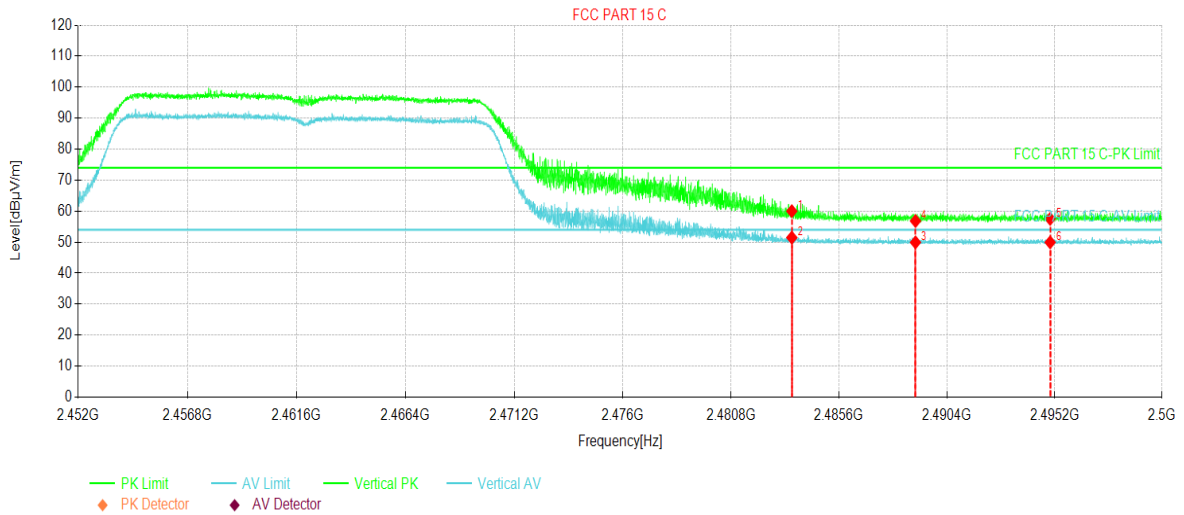


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2330.00	22.89	58.30	35.41	74.00	15.70	PK	Horizontal
2	2330.00	15.45	50.86	35.41	54.00	3.14	AV	Horizontal
3	2360.00	14.78	50.41	35.63	54.00	3.59	AV	Horizontal
4	2360.00	22.64	58.27	35.63	74.00	15.73	PK	Horizontal
5	2390.00	22.39	58.23	35.84	74.00	15.77	PK	Horizontal
6	2390.00	14.85	50.69	35.84	54.00	3.31	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

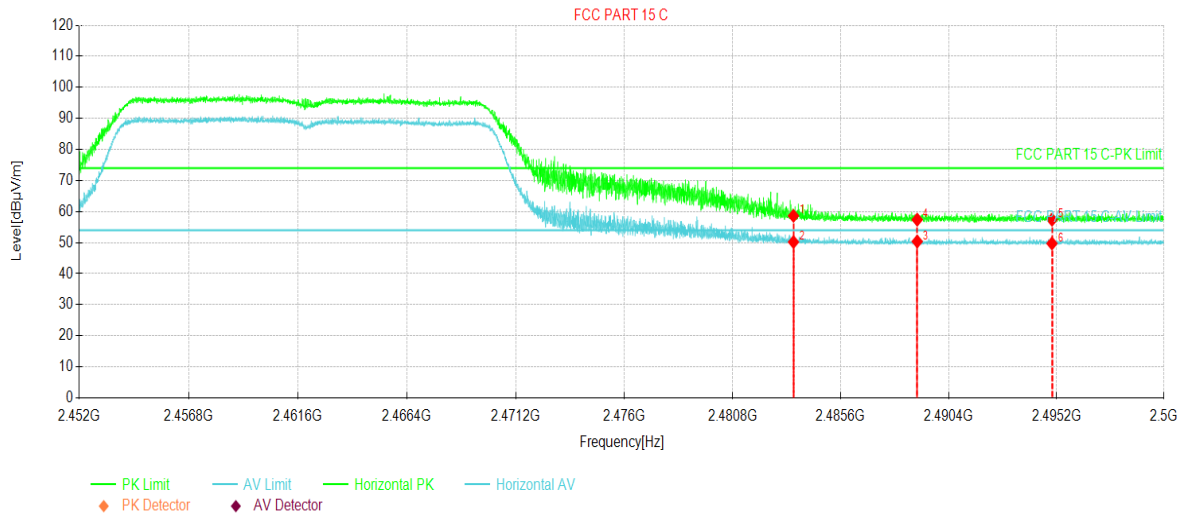


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	24.28	60.00	35.72	74.00	14.00	PK	Vertical
2	2483.50	15.74	51.46	35.72	54.00	2.54	AV	Vertical
3	2489.00	14.22	49.93	35.71	54.00	4.07	AV	Vertical
4	2489.00	21.11	56.82	35.71	74.00	17.18	PK	Vertical
5	2495.00	21.83	57.52	35.69	74.00	16.48	PK	Vertical
6	2495.00	14.25	49.94	35.69	54.00	4.06	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%



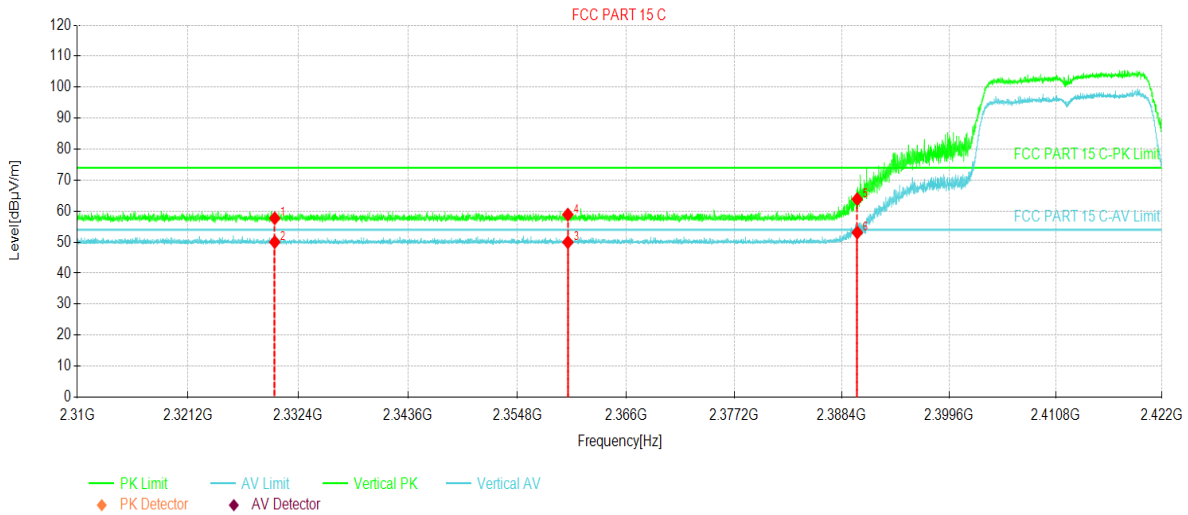
NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.91	58.63	35.72	74.00	15.37	PK	Horizontal
2	2483.50	14.48	50.20	35.72	54.00	3.80	AV	Horizontal
3	2489.00	14.66	50.37	35.71	54.00	3.63	AV	Horizontal
4	2489.00	21.68	57.39	35.71	74.00	16.61	PK	Horizontal
5	2495.00	21.70	57.39	35.69	74.00	16.61	PK	Horizontal
6	2495.00	14.03	49.72	35.69	54.00	4.28	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

802.11n(HT20):

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

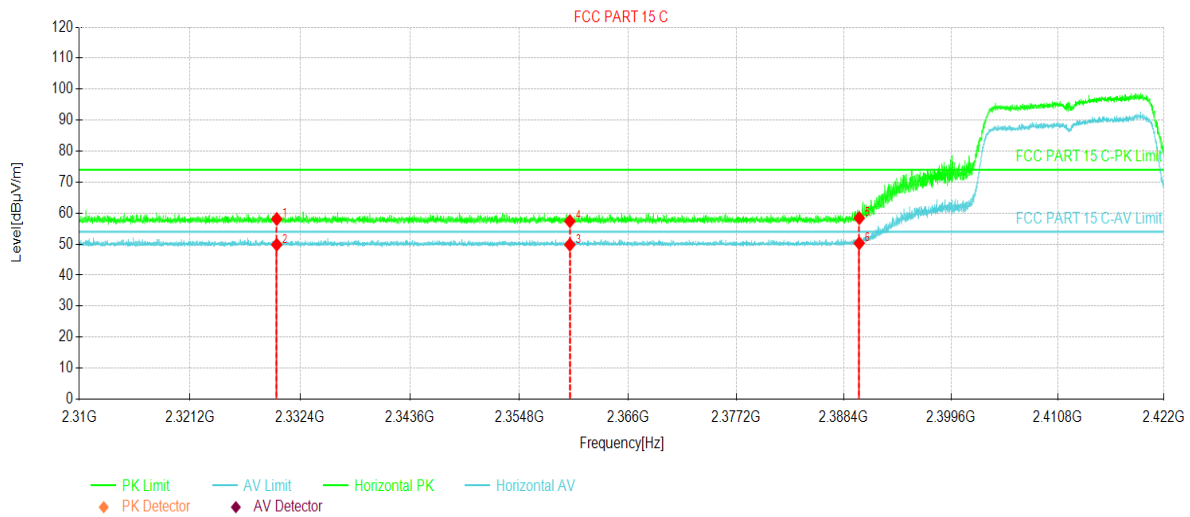


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2330.00	22.29	57.70	35.41	74.00	16.30	PK	Vertical
2	2330.00	14.60	50.01	35.41	54.00	3.99	AV	Vertical
3	2360.00	14.34	49.97	35.63	54.00	4.03	AV	Vertical
4	2360.00	23.25	58.88	35.63	74.00	15.12	PK	Vertical
5	2390.00	28.02	63.86	35.84	74.00	10.14	PK	Vertical
6	2390.00	17.26	53.10	35.84	54.00	0.90	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

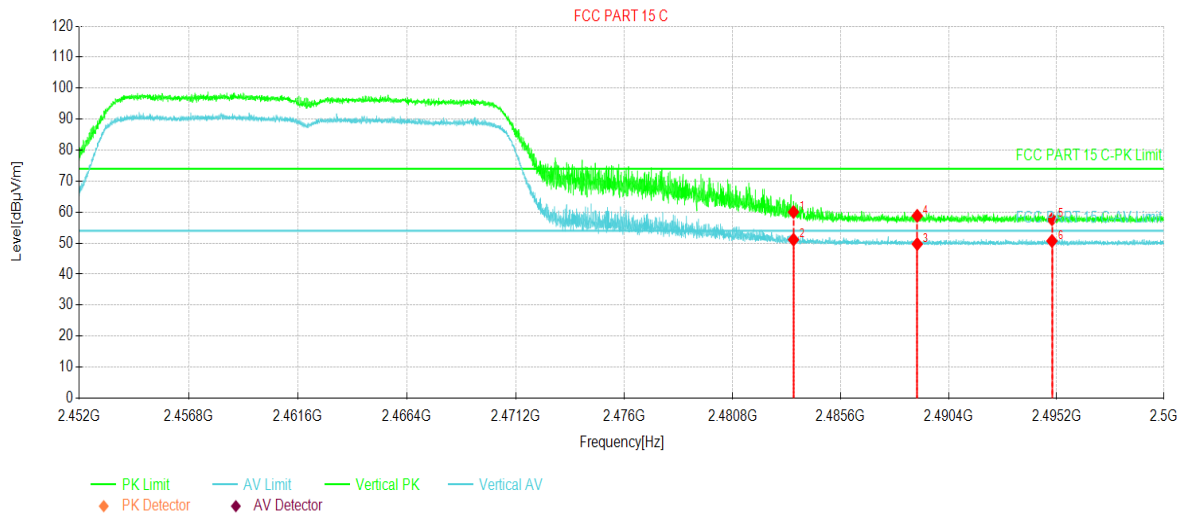


NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2330.00	22.71	58.12	35.41	74.00	15.88	PK	Horizontal
2	2330.00	14.40	49.81	35.41	54.00	4.19	AV	Horizontal
3	2360.00	14.18	49.81	35.63	54.00	4.19	AV	Horizontal
4	2360.00	21.76	57.39	35.63	74.00	16.61	PK	Horizontal
5	2390.00	22.54	58.38	35.84	74.00	15.62	PK	Horizontal
6	2390.00	14.45	50.29	35.84	54.00	3.71	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

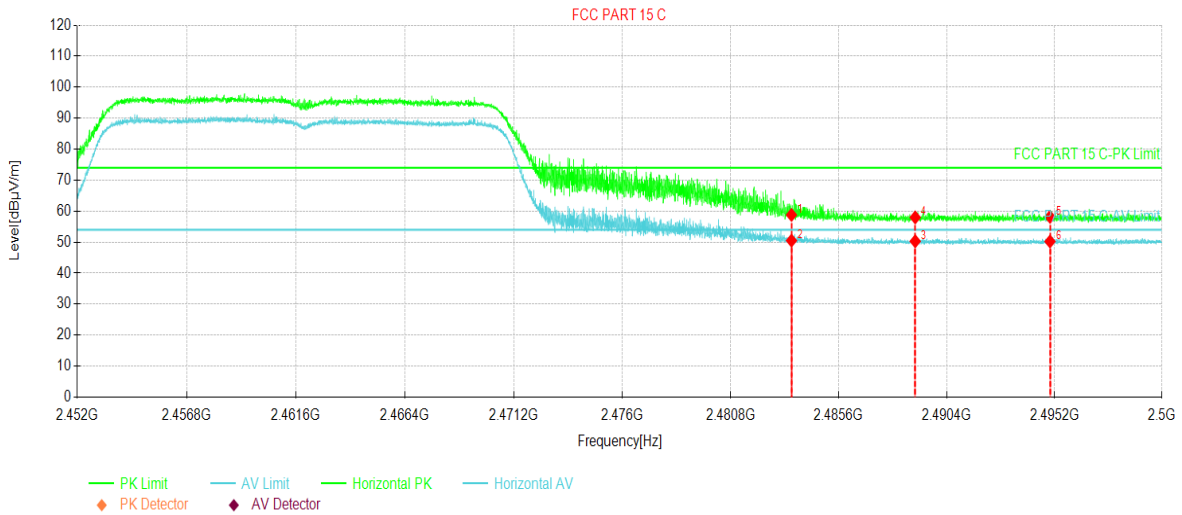


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2483.50	24.31	60.03	35.72	74.00	13.97	PK	Vertical
2	2483.50	15.41	51.13	35.72	54.00	2.87	AV	Vertical
3	2489.00	14.00	49.71	35.71	54.00	4.29	AV	Vertical
4	2489.00	23.09	58.80	35.71	74.00	15.20	PK	Vertical
5	2495.00	22.00	57.69	35.69	74.00	16.31	PK	Vertical
6	2495.00	15.01	50.70	35.69	54.00	3.30	AV	Vertical

Remark:

1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor).
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%



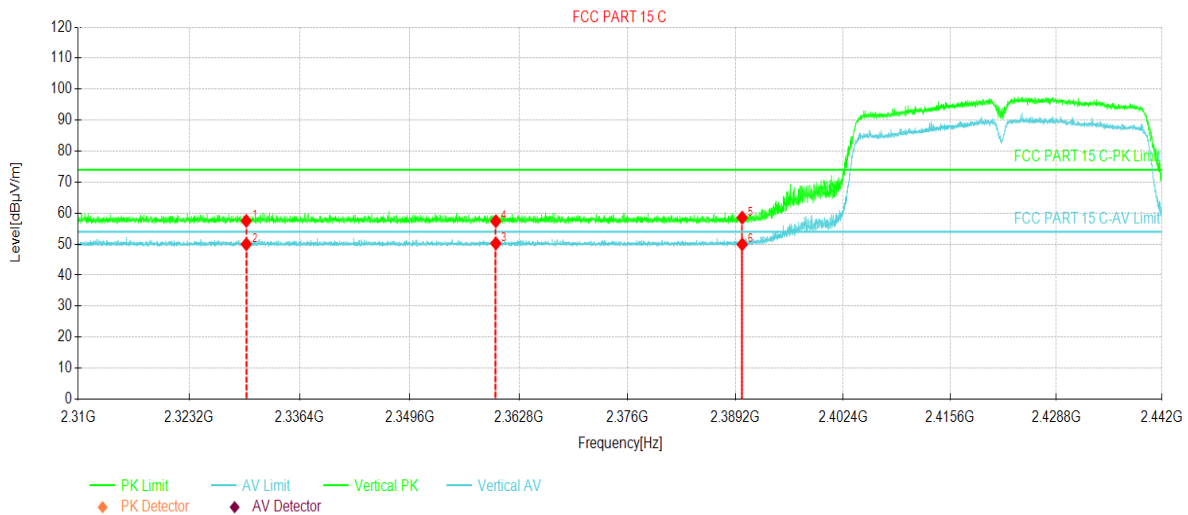
NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2483.50	23.07	58.79	35.72	74.00	15.21	PK	Horizontal
2	2483.50	14.78	50.50	35.72	54.00	3.50	AV	Horizontal
3	2489.00	14.58	50.29	35.71	54.00	3.71	AV	Horizontal
4	2489.00	22.27	57.98	35.71	74.00	16.02	PK	Horizontal
5	2495.00	22.48	58.17	35.69	74.00	15.83	PK	Horizontal
6	2495.00	14.53	50.22	35.69	54.00	3.78	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

802.11n(HT40):

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

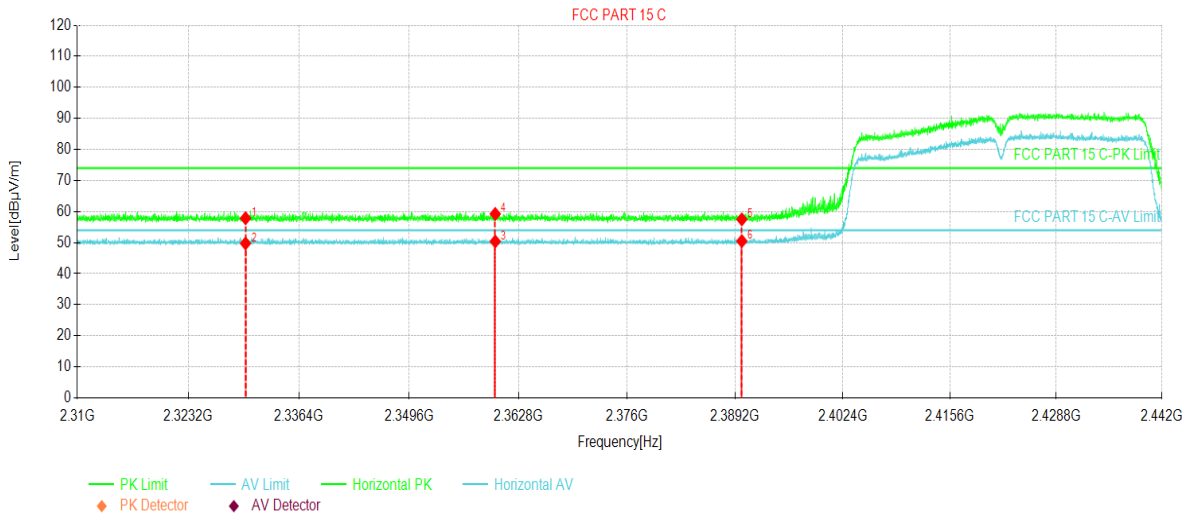


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2330.00	22.08	57.49	35.41	74.00	16.51	PK	Vertical
2	2330.00	14.55	49.96	35.41	54.00	4.04	AV	Vertical
3	2360.00	14.60	50.23	35.63	54.00	3.77	AV	Vertical
4	2360.00	21.75	57.38	35.63	74.00	16.62	PK	Vertical
5	2390.00	22.73	58.57	35.84	74.00	15.43	PK	Vertical
6	2390.00	14.08	49.92	35.84	54.00	4.08	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

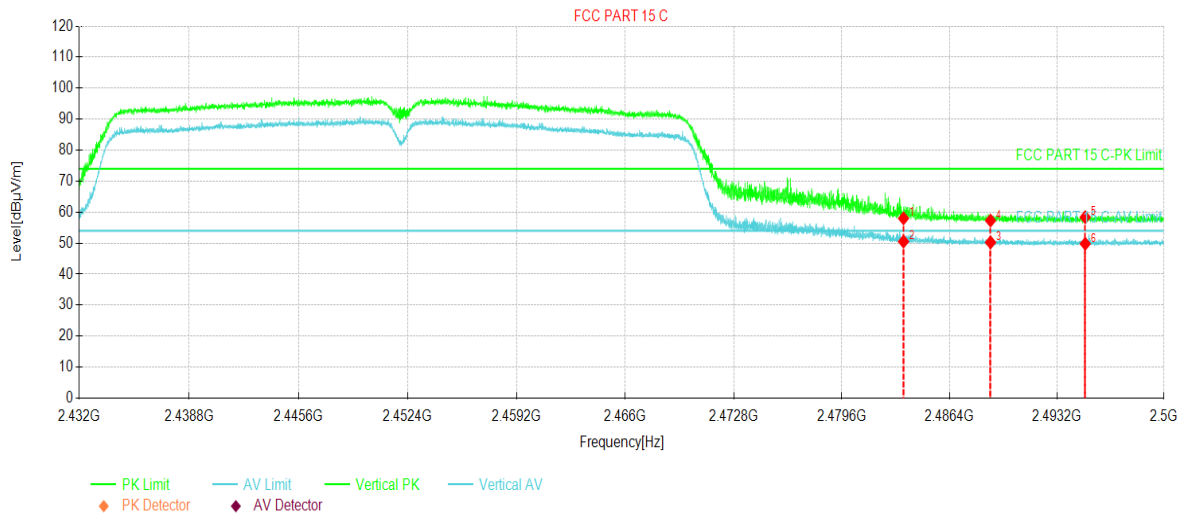


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2330.00	22.45	57.86	35.41	74.00	16.14	PK	Horizontal
2	2330.00	14.34	49.75	35.41	54.00	4.25	AV	Horizontal
3	2360.00	14.75	50.38	35.63	54.00	3.62	AV	Horizontal
4	2360.00	23.61	59.24	35.63	74.00	14.76	PK	Horizontal
5	2390.00	21.64	57.48	35.84	74.00	16.52	PK	Horizontal
6	2390.00	14.65	50.49	35.84	54.00	3.51	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

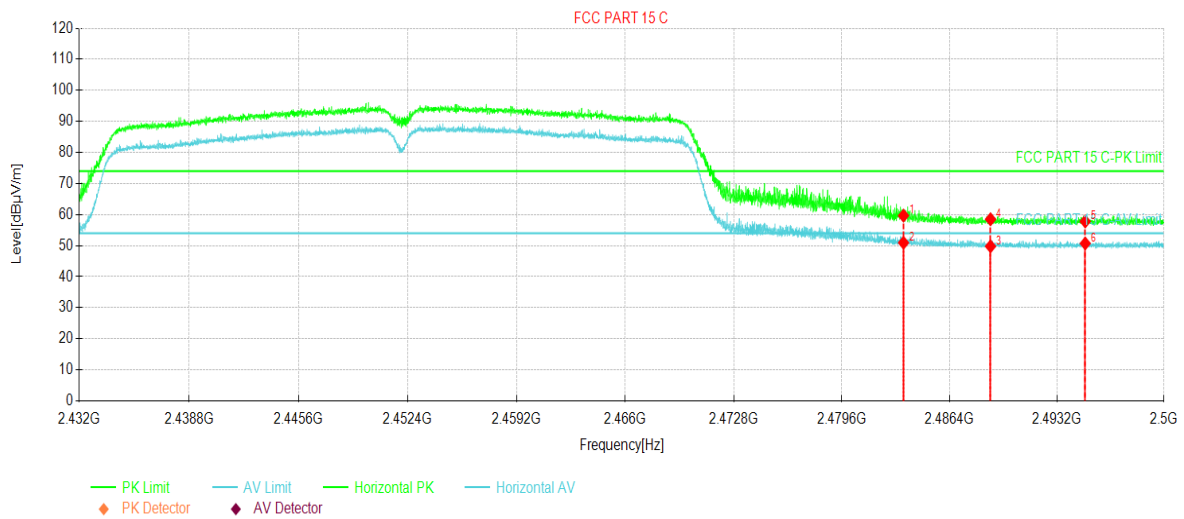


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.29	58.01	35.72	74.00	15.99	PK	Vertical
2	2483.50	14.80	50.52	35.72	54.00	3.48	AV	Vertical
3	2489.00	14.54	50.25	35.71	54.00	3.75	AV	Vertical
4	2489.00	21.58	57.29	35.71	74.00	16.71	PK	Vertical
5	2495.00	22.68	58.37	35.69	74.00	15.63	PK	Vertical
6	2495.00	14.11	49.80	35.69	54.00	4.20	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%



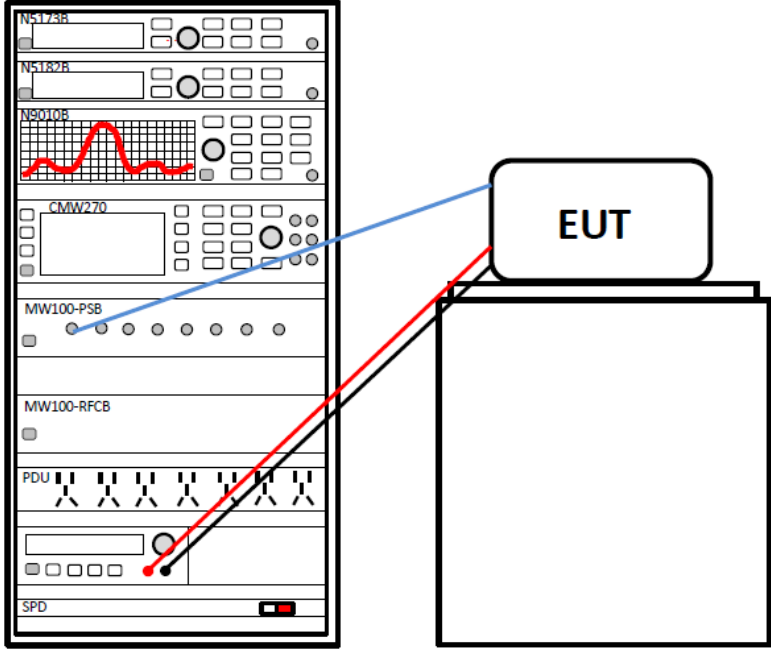
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	23.94	59.66	35.72	74.00	14.34	PK	Horizontal
2	2483.50	15.20	50.92	35.72	54.00	3.08	AV	Horizontal
3	2489.00	14.06	49.77	35.71	54.00	4.23	AV	Horizontal
4	2489.00	22.77	58.48	35.71	74.00	15.52	PK	Horizontal
5	2495.00	22.09	57.78	35.69	74.00	16.22	PK	Horizontal
6	2495.00	15.02	50.71	35.69	54.00	3.29	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

6.7 Spurious Emission

6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. 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.
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A

6.7.2 Radiated Emission Method

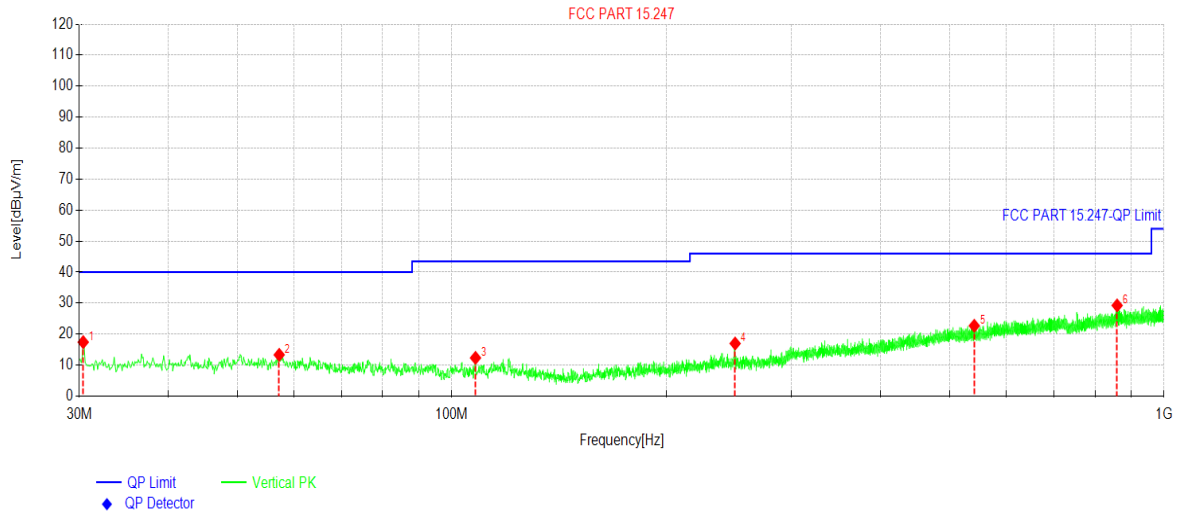
Test Requirement:	FCC Part 15 C Section 15.209 and 15.205				
Test Frequency Range:	9kHz to 25GHz				
Test Distance:	3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
RMS		1MHz	3MHz	Average Value	
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	30MHz-88MHz	40.0		Quasi-peak Value	
	88MHz-216MHz	43.5		Quasi-peak Value	
	216MHz-960MHz	46.0		Quasi-peak Value	
	960MHz-1GHz	54.0		Quasi-peak Value	
	Above 1GHz	54.0		Average Value	
		74.0		Peak Value	
Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 				
Test setup:	<p>Below 1GHz</p> <p>Above 1GHz</p>				

Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	<ol style="list-style-type: none"> 1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 2. 9 kHz to 30MHz is lower than the limit 20dB, so only shows the data of above 30MHz in this report.

Measurement Data (worst case):

Below 1GHz:

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%

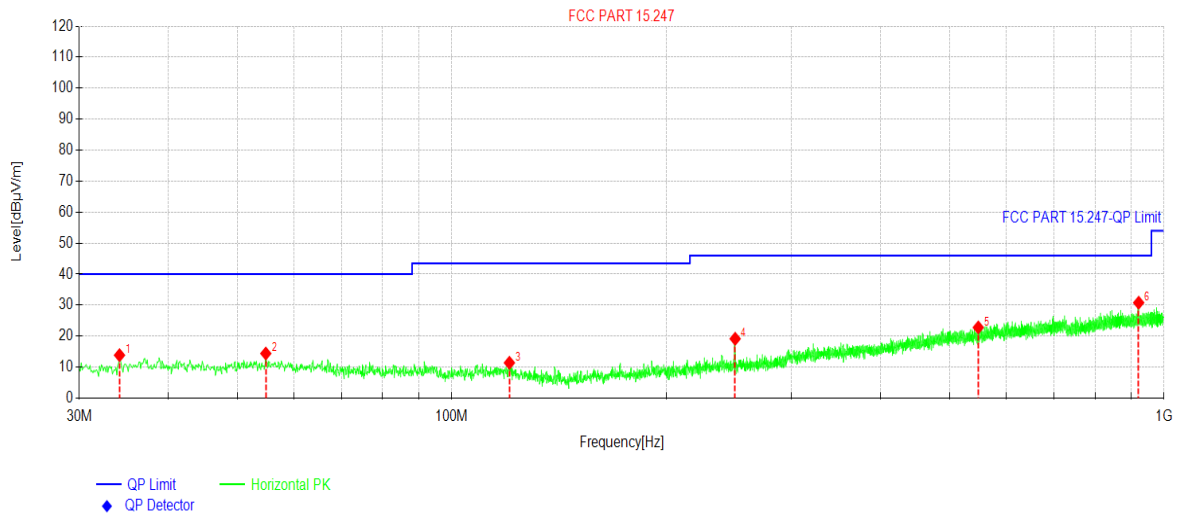


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	30.3880	33.49	17.42	-16.07	40.00	22.58	PK	Vertical
2	57.2597	28.12	13.32	-14.80	40.00	26.68	PK	Vertical
3	107.995	28.28	12.34	-15.94	43.50	31.16	PK	Vertical
4	250.018	30.76	16.97	-13.79	46.00	29.03	PK	Vertical
5	541.629	29.51	22.70	-6.81	46.00	23.30	PK	Vertical
6	859.432	30.56	29.25	-1.31	46.00	16.75	PK	Vertical

Remark:

1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Integrated Smart Terminal	Product Model:	E600Mini
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp.: 24°C Humi.: 57%



NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	34.1714	29.04	13.84	-15.20	40.00	26.16	PK	Horizontal
2	54.8345	29.01	14.39	-14.62	40.00	25.61	PK	Horizontal
3	120.510	27.49	11.39	-16.10	43.50	32.11	PK	Horizontal
4	250.018	32.93	19.14	-13.79	46.00	26.86	PK	Horizontal
5	548.613	29.68	22.80	-6.88	46.00	23.20	PK	Horizontal
6	921.422	31.88	30.78	-1.10	46.00	15.22	PK	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Pre-amplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Above 1GHz

802.11b						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	54.77	-9.46	45.31	74.00	28.69	Vertical
4824.00	54.22	-9.46	44.76	74.00	29.24	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	49.10	-9.46	39.64	54.00	14.36	Vertical
4824.00	47.21	-9.46	37.75	54.00	16.25	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	54.51	-9.11	45.40	74.00	28.60	Vertical
4874.00	54.16	-9.11	45.05	74.00	28.95	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	49.39	-9.11	40.28	54.00	13.72	Vertical
4874.00	46.73	-9.11	37.62	54.00	16.38	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	54.87	-8.74	46.13	74.00	27.87	Vertical
4924.00	54.02	-8.74	45.28	74.00	28.72	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	49.37	-8.74	40.63	54.00	13.37	Vertical
4924.00	47.36	-8.74	38.62	54.00	15.38	Horizontal
<i>Remark:</i> 1. <i>Final Level = Receiver Read level + Factor.</i> 2. <i>The emission levels of other frequencies are lower than the limit 20dB and not show in test report.</i>						

802.11g						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	54.27	-9.46	44.81	74.00	29.19	Vertical
4824.00	54.45	-9.46	44.99	74.00	29.01	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	48.68	-9.46	39.22	54.00	14.78	Vertical
4824.00	47.00	-9.46	37.54	54.00	16.46	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	54.44	-9.11	45.33	74.00	28.67	Vertical
4874.00	54.24	-9.11	45.13	74.00	28.87	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	49.80	-9.11	40.69	54.00	13.31	Vertical
4874.00	47.14	-9.11	38.03	54.00	15.97	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	54.74	-8.74	46.00	74.00	28.00	Vertical
4924.00	53.83	-8.74	45.09	74.00	28.91	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	48.97	-8.74	40.23	54.00	13.77	Vertical
4924.00	47.08	-8.74	38.34	54.00	15.66	Horizontal
<i>Remark:</i> 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.						

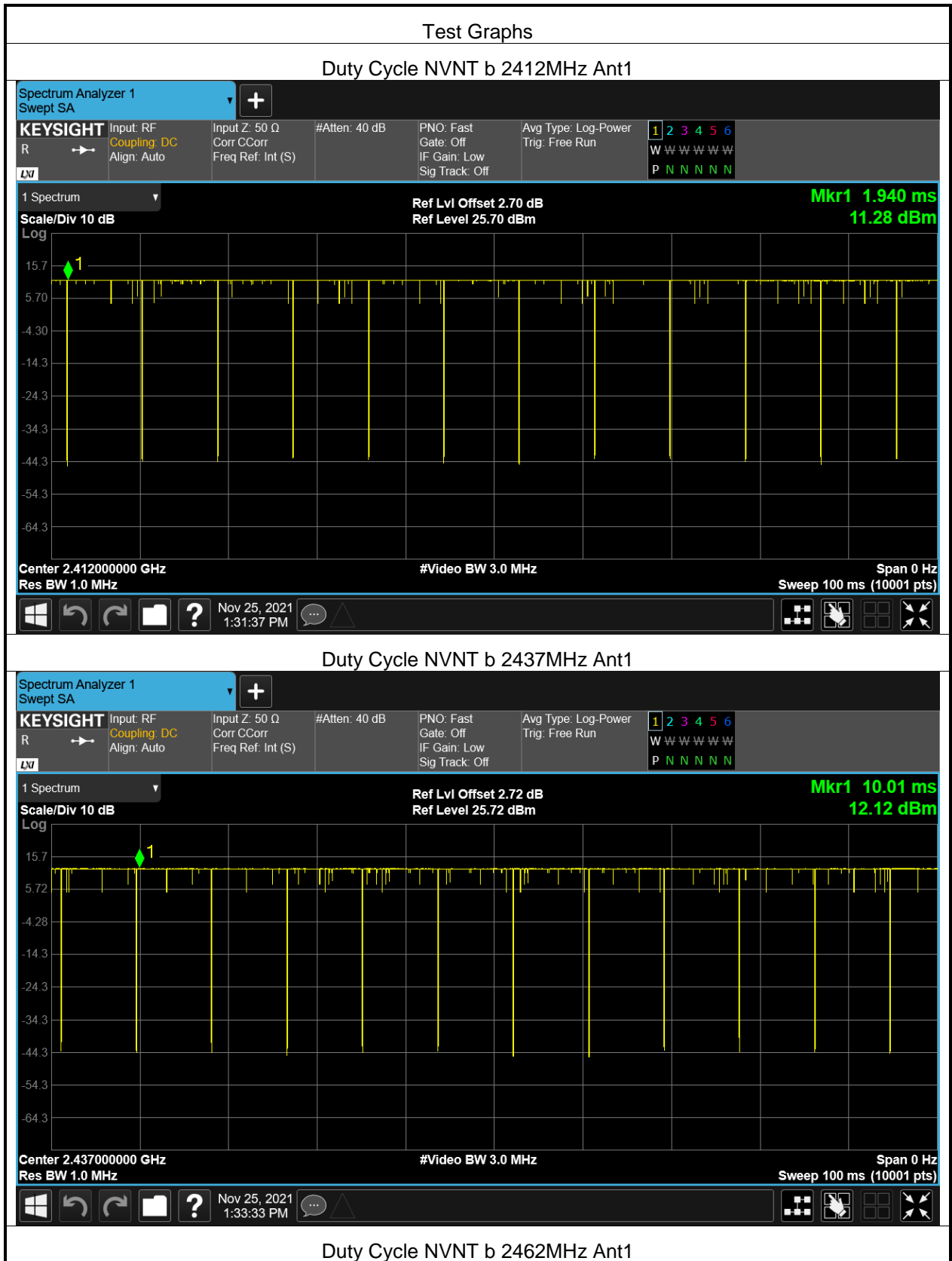
802.11n(HT20)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	55.15	-9.46	45.69	74.00	28.31	Vertical
4824.00	53.94	-9.46	44.48	74.00	29.52	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	49.03	-9.46	39.57	54.00	14.43	Vertical
4824.00	46.81	-9.46	37.35	54.00	16.65	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	55.64	-9.11	46.53	74.00	27.47	Vertical
4874.00	53.58	-9.11	44.47	74.00	29.53	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	48.56	-9.11	39.45	54.00	14.55	Vertical
4874.00	46.46	-9.11	37.35	54.00	16.65	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	55.20	-8.74	46.46	74.00	27.54	Vertical
4924.00	53.95	-8.74	45.21	74.00	28.79	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4924.00	48.71	-8.74	39.97	54.00	14.03	Vertical
4924.00	46.98	-8.74	38.24	54.00	15.76	Horizontal
<i>Remark:</i> 1. <i>Final Level = Receiver Read level + Factor.</i> 2. <i>The emission levels of other frequencies are lower than the limit 20dB and not show in test report.</i>						

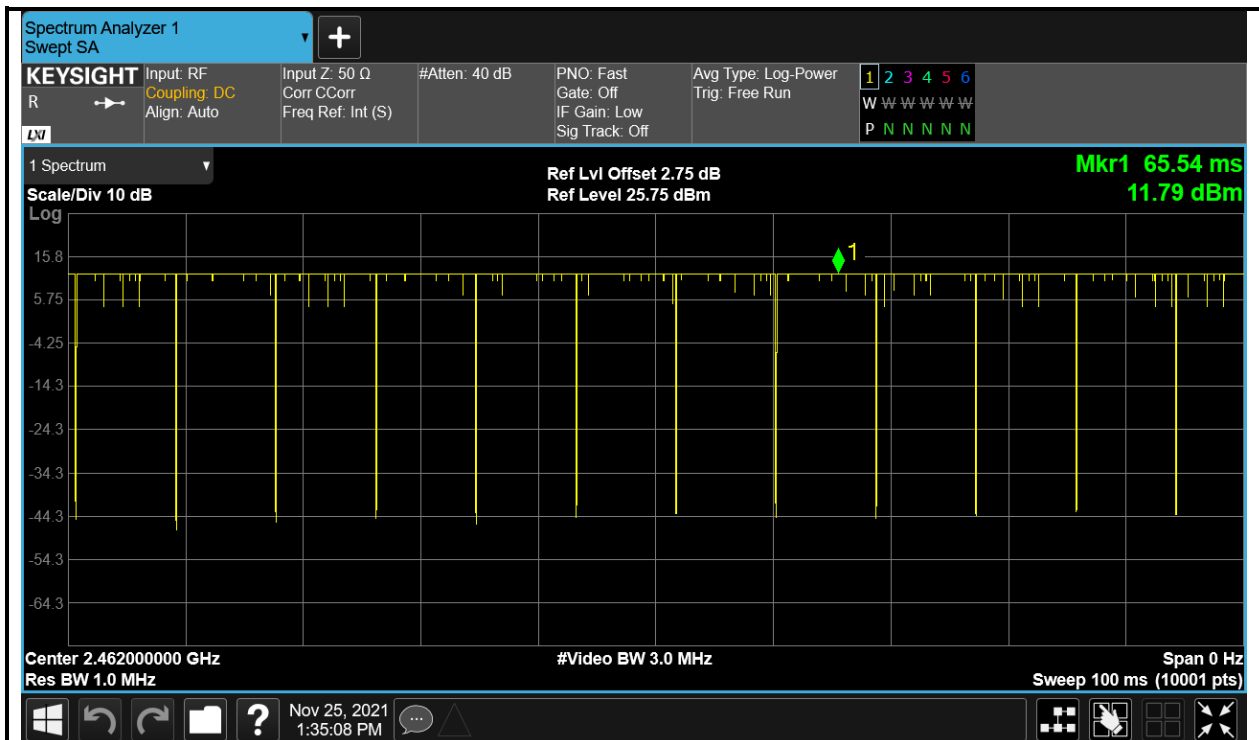
802.11n(HT40)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4844.00	54.92	-9.32	45.60	74.00	28.40	Vertical
4844.00	54.41	-9.32	45.09	74.00	28.91	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4844.00	48.80	-9.32	39.48	54.00	14.52	Vertical
4844.00	46.96	-9.32	37.64	54.00	16.36	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	54.93	-9.11	45.82	74.00	28.18	Vertical
4874.00	54.72	-9.11	45.61	74.00	28.39	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4874.00	48.50	-9.11	39.39	54.00	14.61	Vertical
4874.00	46.49	-9.11	37.38	54.00	16.62	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4904.00	55.21	-8.90	46.31	74.00	27.69	Vertical
4904.00	53.93	-8.90	45.03	74.00	28.97	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4904.00	48.68	-8.90	39.78	54.00	14.22	Vertical
4904.00	47.39	-8.90	38.49	54.00	15.51	Horizontal
<i>Remark:</i> 1. <i>Final Level = Receiver Read level + Factor.</i> 2. <i>The emission levels of other frequencies are lower than the limit 20dB and not show in test report.</i>						

Appendix A

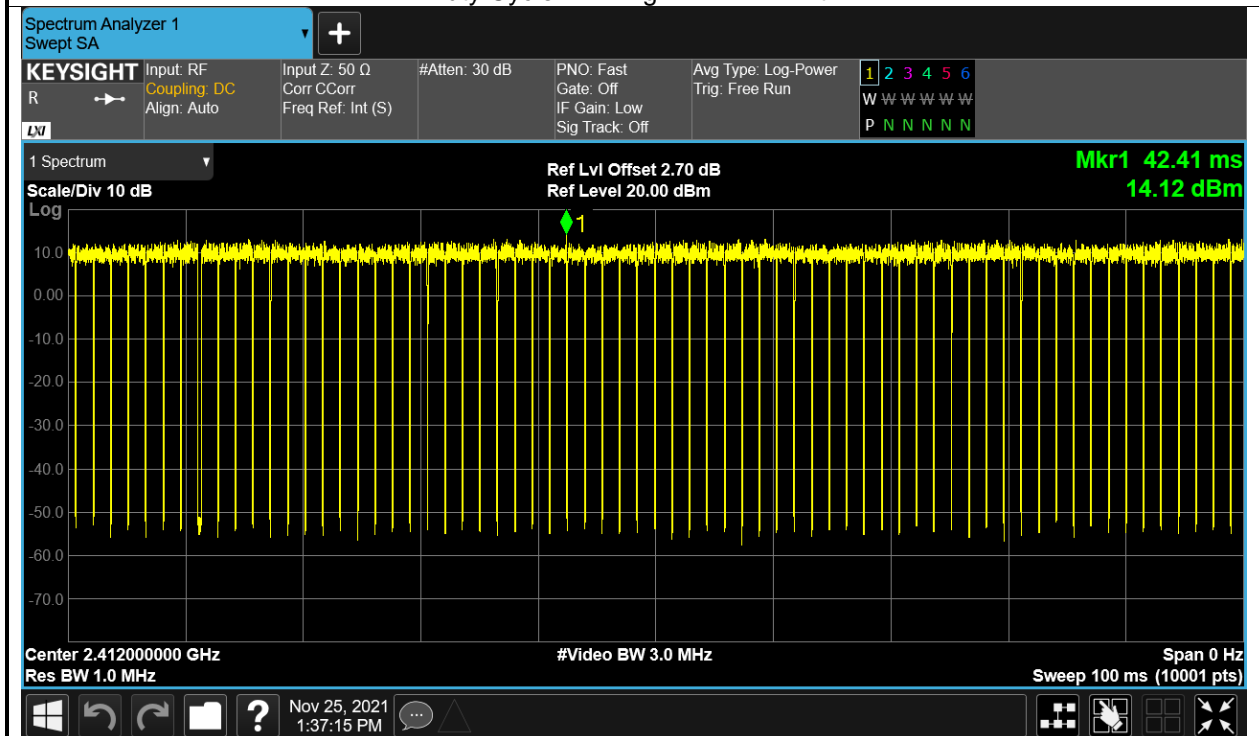
A.1 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	99.08	0.04
NVNT	b	2437	Ant1	99.08	0.04
NVNT	b	2462	Ant1	99.1	0.04
NVNT	g	2412	Ant1	94.54	0.24
NVNT	g	2437	Ant1	94.76	0.23
NVNT	g	2462	Ant1	94.62	0.24
NVNT	n20	2412	Ant1	94.38	0.25
NVNT	n20	2437	Ant1	94.4	0.25
NVNT	n20	2462	Ant1	94.42	0.25
NVNT	n40	2422	Ant1	89.12	0.5
NVNT	n40	2437	Ant1	89.39	0.49
NVNT	n40	2452	Ant1	89.47	0.48





Duty Cycle NVNT g 2412MHz Ant1



Duty Cycle NVNT g 2437MHz Ant1