

FCC

RF

TEST REPORT

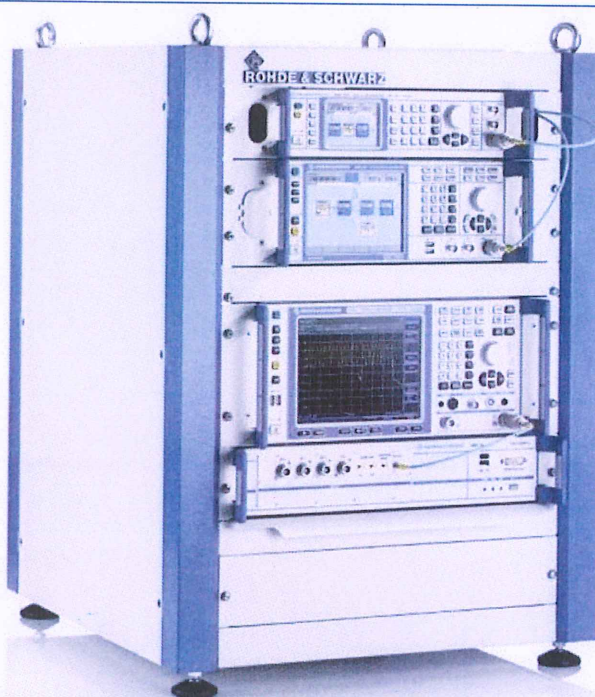
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Computer

ISSUED TO
Advantech Co Ltd

NO.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 114,
Taiwan



Prepared by:

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(Engineer)

Date: Apr. 11, 2019

Approved by:

Wei Yanquan
(Chief Engineer)

Date: Apr. 11, 2019

Report No.: BL-EC18C0175-604

EUT Name: Computer

Model Name: DLT-V7212P+ (refer section 2.4)

Brand Name: ADVANTECH DLOG

Test Standard: 47 CFR Part 15 Subpart E

FCC ID: 9404A-DLTV72

Test Conclusion: Pass

Test Date: Mar. 07, 2019 ~ Mar. 13, 2019

Date of Issue: Apr. 11, 2019

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Mar. 20, 2019</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Apr. 11, 2019</u>	<u>Updated the information of applicant and manufacturer.</u>

TABLE OF CONTENTS

1	ADMINISTRATIVE DATA (GENERAL INFORMATION)	4
1.1	Identification of the Testing Laboratory.....	4
1.2	Identification of the Responsible Testing Location	4
1.3	Laboratory Condition	4
1.4	Announce	4
2	PRODUCT INFORMATION	5
2.1	Applicant	5
2.2	Manufacturer	5
2.3	Factory	5
2.4	General Description for Equipment under Test (EUT)	5
2.5	Ancillary Equipment.....	5
2.6	Technical Information	6
2.7	Channel List	8
3	SUMMARY OF TEST RESULTS	11
3.1	Test Standards.....	11
3.2	Verdict.....	11
4	GENERAL TEST CONFIGURATIONS	12
4.1	Test Environments	12
4.2	Test Equipment List.....	12
4.3	Measurement Uncertainty	13
4.4	Description of Test Setup	14
5	TEST ITEMS	17
5.1	RF Output Power	17
5.2	Emission Bandwidth and 6 dB Bandwidth	18
5.3	Power Spectral density (PSD)	19
5.4	Conducted Emission	20
5.5	Conducted Spurious Emission and Band Edge (Authorized-band)	21

5.6	Radiated Spurious Emissions and Band Edge (Restricted-band)	23
5.7	Frequency Stability	28
ANNEX A	TEST RESULT	29
A.1	RF Output Power	29
A.2	Emission Bandwidth & 99% Bandwidth	29
A.3	6 dB Bandwidth	29
A.4	Power Spectral Density	29
A.5	Conducted Emissions	30
A.6	Conducted Spurious Emission and Band Edge (Authorized-band)	32
A.7	Radiated Spurious Emissions and Band Edge (Restricted-band)	33
A.8	Frequency Stability	46
ANNEX B	TEST SETUP PHOTOS	47
ANNEX C	EUT EXTERNAL PHOTOS	47
ANNEX D	EUT INTERNAL PHOTOS	47

1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The laboratory is a testing organization accredited by American Association for Laboratory Accreditation(A2LA) according to ISO/IEC 17025.The accreditation certificate is 4344.01. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Laboratory Condition

Ambient Temperature	20°C to 25°C
Ambient Relative Humidity	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v4.3.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant

Applicant	Advantech Co Ltd
Address	NO.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 114, Taiwan

2.2 Manufacturer

Manufacturer	Advantech Co Ltd
Address	NO.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 114, Taiwan

2.3 Factory

Factory	Advantech Co.,Ltd.
Address	No. 27-3, Wende Rd., Guishan Dist., Taoyuan City 333, Taiwan

2.4 General Description for Equipment under Test (EUT)

EUT Name	Computer
Model Name Under Test	DLT-V7212P+
Series Model Name	DLT-V7210XXXXXXXXXX, DLT-V7212XXXXXXXXXX (X can be 0-9, A-Z, a-z, any symbol, blank or nothing)
Description of Model name differentiation	The difference between the two series models is a different screen size, All models have two internal antennas and one external antenna.
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Ancillary Equipment 1	Antenna 1	
Ancillary Equipment 2	Antenna 2	
Ancillary Equipment 3	Control Line 1	
	Length (Approx.)	2.95m
Ancillary Equipment 4	Control Line 2	
	Length (Approx.)	2.95m
Ancillary Equipment 5	DC Power Line	
	Length (Approx.)	2.9 m

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 900/1800 MHz 3G Network WCDMA/HSDPA/HSUPA Band 1/2/5/8 4G Network FDD LTE Band 1/2/3/4/5/7/8/12/20 TDD LTE Band 38/40/41 Bluetooth 4.0 (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac GPS, GLONASS
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range			Band I: 5150 MHz to 5250 MHz, Band II: 5250 MHz to 5350 MHz, Band III: 5470 MHz to 5725 MHz Band IV: 5725 MHz to 5850 MHz
Product Type			☒ Mobile ☐ Portable ☐ Fix Location
Modulation technology			OFDM
Modulation Type			256QAM, 64QAM, 16QAM, BPSK, QPSK
Product Type			Indoor for IC standard Mobile and portable for FCC standard
Transfer Rate (Mbps) (Single RF path)			802.11a: 54/ 48/ 36 / 24 / 18/12 / 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9
Channel Bandwidth			802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz
Maximum Output Power			802.11a: 77.033 mW 802.11ac20: 63.586 mW 802.11ac40: 47.366 mW 802.11ac80: 43.894 mW
Antenna System (eg., MIMO, Smart Antenna)			Cyclic Delay Diversity (CDD)
Categorization as Correlated or Completely Uncorrelated			Correlated
Antenna Type	Internal Antenna 1	ANT 0	PIFA Antenna
		ANT 1	
	Internal Antenna 2	ANT 0	PIFA Antenna
		ANT 1	
	External Antenna		Dipole Antenna
Antenna Gain	Internal Antenna 1	ANT 0	2.70 dBi (In test items related to antenna gain, the final results reflect this figure.)
		ANT 1	2.80 dBi (In test items related to antenna gain, the final results reflect this figure.)
	Internal Antenna 2	ANT 0	2.64 dBi (In test items related to antenna gain, the final results reflect this figure.)
		ANT 1	2.85 dBi (In test items related to antenna gain, the final results reflect this figure.)

	External Antenna	2.90 dBi (In test items related to antenna gain, the final results reflect this figure.)
About the Product		The equipment is Computer, intended for used with information technology equipment.

2.7 Channel List

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	58	5290
44	5220	54	5270	106	5530
48	5240	62	5310	155	5775
52	5260	102	5510		
56	5280	110	5550		
60	5300	134	5670		
64	5320	151	5755		
100	5500	159	5795		
104	5520				
108	5540				
112	5560				
116	5580				
132	5660				
136	5680				
140	5700				
149	5745				
153	5765				
157	5785				
161	5805				
165	5825				

Note: Until further notice, devices subject to this section shall not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of weather radars operating in this band.

The Lowest frequency, the middle frequency and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20)/ac(VHT20)

Band I (5150 - 5250 MHz)			Band II (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	52	Low	5260
44	Mid	5220	60	Mid	5300
48	High	5240	64	High	5320

Band III (5470 - 5725 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
100	Low	5500	149	Low	5745
116	Mid	5580	157	Mid	5785
140	High	5700	165	High	5825

For 802.11n(HT40)/ac(VHT40)

Band I (5150 - 5250 MHz)			Band II (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	54	Low	5270
46	High	5230	62	High	5310

Band III (5150 - 5250 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
102	Low	5510	151	Low	5755
134	High	5670	159	High	5795

For 802.11ac(VHT80)

Band I (5150 - 5250 MHz)			Band II (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Low	5210	58	Low	5290

Band III (5470 - 5725 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
106	Low	5530	155	Low	5775

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Modulation Type	Band I	Band II	Band III	Band IV
				Channel	Channel	Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(80 MHz)	MCS0		42	58	106	155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(80 MHz)	VHT-MCS0		42	58	106	155
6 dB bandwidth	11a	6	BPSK	N/A	N/A	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11n(40 MHz)	13.5		N/A	N/A	N/A	159/151
	11ac(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	N/A	N/A	159/151
	11ac(80 MHz)	MCS0		N/A	N/A	N/A	155
Power Spectral Density	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(80 MHz)	MCS0		42	58	106	155
Conducted Spurious Emission and Band Edge (Authorized-band)	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(80 MHz)	MCS0		42	58	106	155
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(80 MHz)	MCS0		42	58	106	155
Band Edge (Restricted-band)	11a	6	BPSK	48/36	64/52	140/100	165/149
	11n(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11n(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11ac(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(80 MHz)	MCS0		42	58	106	155
Frequency Stability	Unmodulated	N/A	N/A	N/A	64	N/A	N/A

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E (10-1-16 Edition)	Unlicensed National Information Infrastructure Devices
2	KDB Publication 789033 D02v01r04	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
4	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass
7	Conducted Spurious Emission and Band Edge (Authorized-band)	15.407(b) 15.209	ANNEX A.6	Pass
8	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	ANNEX A.7	Pass
9	Frequency Stability	15.407(g)	ANNEX A.8	Pass
10	Receiver Spurious Emissions	--	--	N/A ^{Note2}

Note ¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note ²: Only radio communication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable.

Note ³: Because the RF module installed in the EUT is electronically and mechanically identical to the original certified module in the test report No. RF140808E04S-1 (FCC ID: RYK-261ACNBT) (which issued by Bureau Veritas Consumer Products Sciences (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory on

Sep. 18, 2017), so just Conducted Emission and Radiated Spurious Emissions and Band Edge (Restricted-band) were retested in this report. Other test items please refer to the No.

RF140808E04S-1 (which issued by Bureau Veritas Consumer Products Sciences (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory on Sep. 18, 2017).

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	45% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
	LT (Low Temperature)	-30°C
	HT (High Temperature)	+50°C
Working Voltage of the EUT	NV (Normal Voltage)	24 V
	LV (Low Voltage)	12 V
	HV (High Voltage)	48 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2018.06.15	2019.06.14
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2018.06.15	2019.06.14
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2018.11.07	2019.11.06
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2018.06.13	2019.06.12
LISN	SCHWARZBECK	NSLK 8127	8127-687	2018.06.13	2019.06.12
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2018.06.15	2019.06.14
Power Splitter	KMW	DCPD-LDC	1305003215	--	--
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2018.06.15	2019.06.14
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2018.06.14	2019.06.13
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2018.06.26	2019.06.25
Test Antenna- Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2017.11.09	2019.11.08
Test Antenna- Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2017.07.22	2019.07.21
Test Antenna- Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2018.07.11	2020.07.10
Test Antenna- Horn(15-26.5 GHz)	SCHWARZBECK	BBHA 9170	9170-305	2018.06.21	2019.06.20
Test Antenna- Horn (18-40 GHz)	A-INFO	LB- 180400KF	J211060273	2019.01.05	2021.01.04
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2020.02.20
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	N/A	2017.08.08	2019.08.07
Shielded Enclosure	ChangNing	CN-130701	130703	--	--
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2018.06.15	2019.06.14
Power Amplifier	OPHIR RF	5225F	1037	2019.02.28	2020.02.27

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Power Amplifier	OPHIR RF	5273F	1016	2019.02.28	2020.02.27
Directional Coupler	Werlantone	C5982-10	109275	N/A	N/A
Directional Coupler	Werlantone	CHP-273E	S00801z-01	N/A	N/A
Feld Strength Meter	Narda	EP601	511WX51129	2018.05.21	2019.05.20
Mouth Simulator	B&K	4227	2423931	2018.11.15	2019.11.14
Sound Calibrator	B&K	4231	2430337	2018.11.15	2019.11.14
Sound Level Meter	B&K	NL-20	00844023	2018.11.15	2019.11.14
Ear Simulator	B&K	4185	2409449	2018.11.15	2019.11.14
Ear Simulator	B&K	4195	2418189	2018.11.15	2019.11.14
Audio analyzer	B&K	UPL 16	100129	2018.11.15	2019.11.14

4.3 Measurement Uncertainty

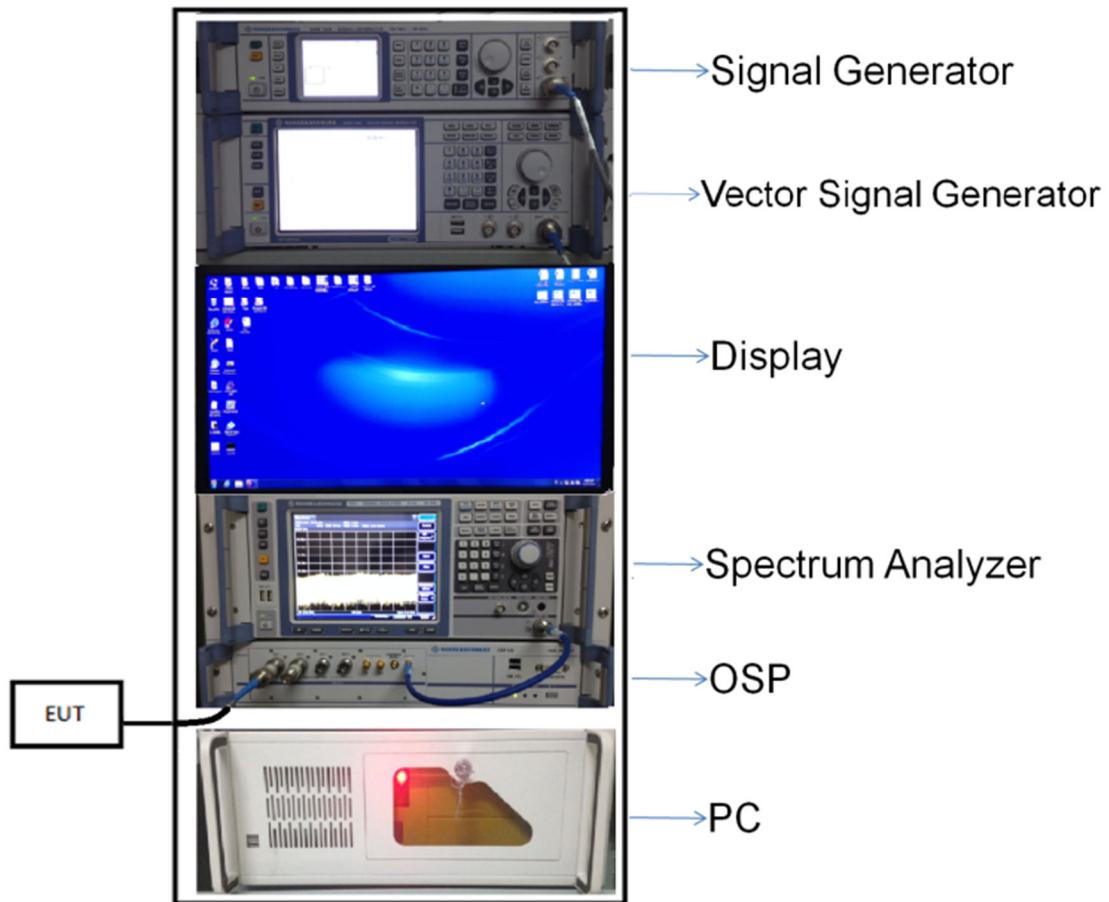
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Occupied Channel Bandwidth	±4%
RF output power, conducted	±1.4 dB
Power Spectral Density, conducted	±2.5 dB
Unwanted Emissions, conducted	±2.8 dB
All emissions, radiated	±5.4 dB
Temperature	±1°C
Humidity	±4%

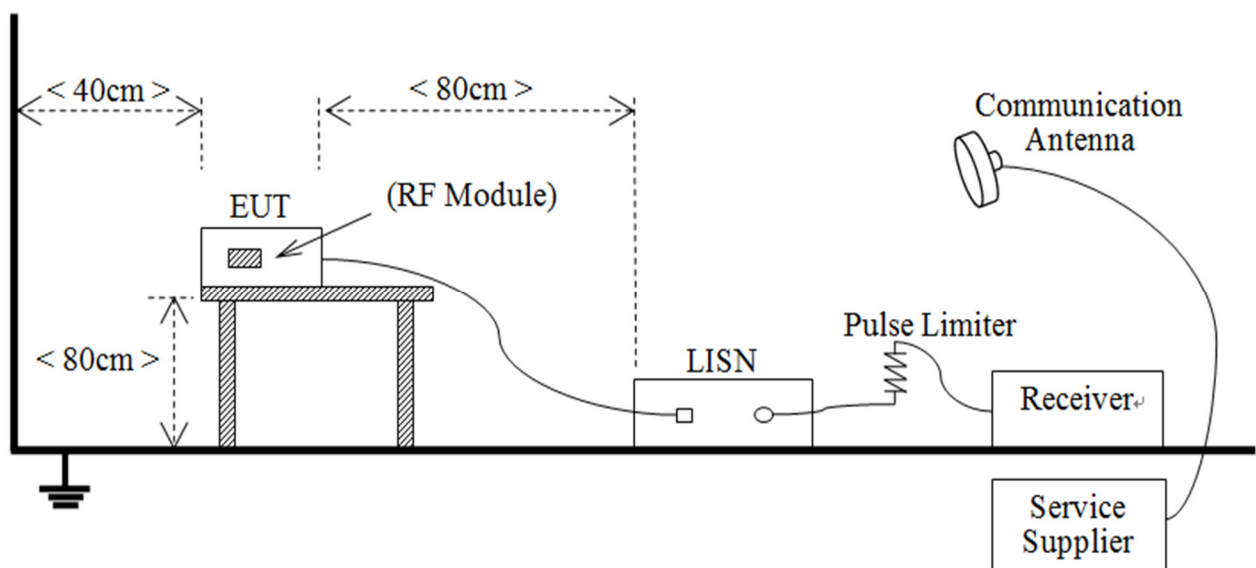
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



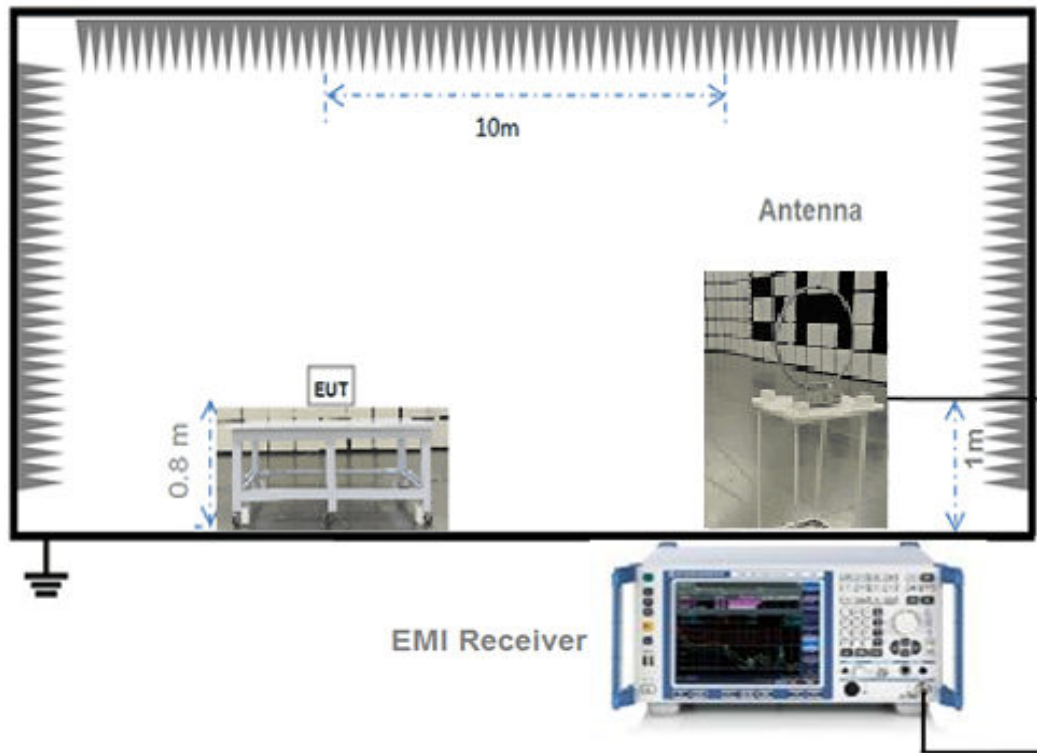
(Diagram 1)

4.4.2 For AC Power Supply Port Test



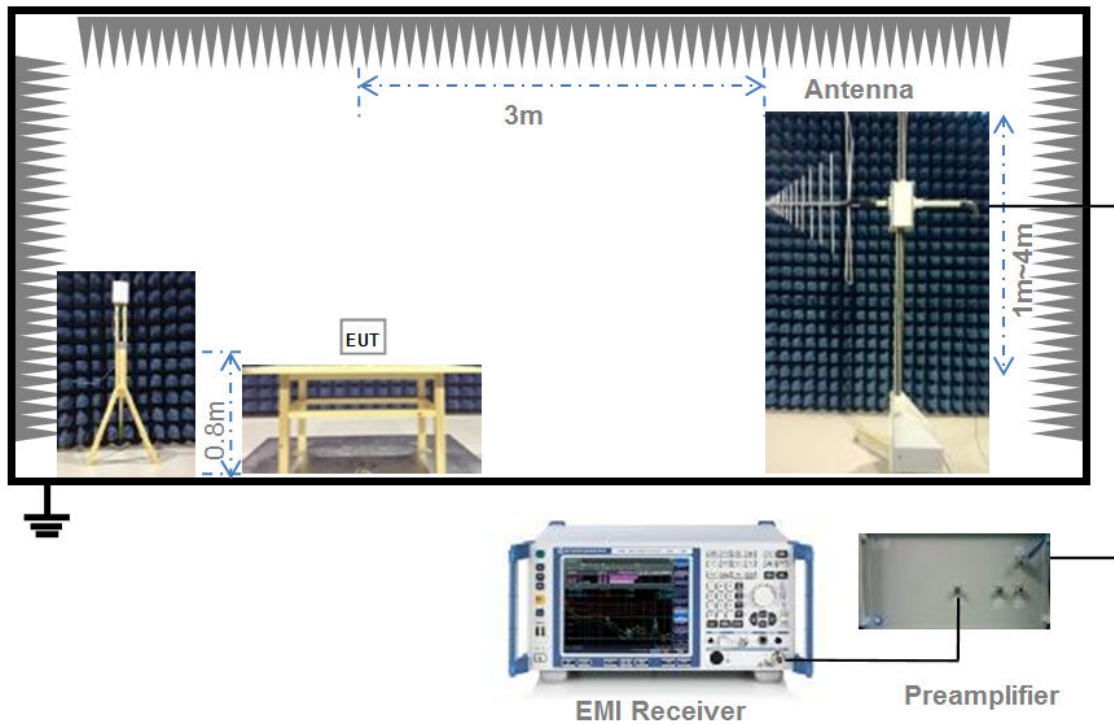
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



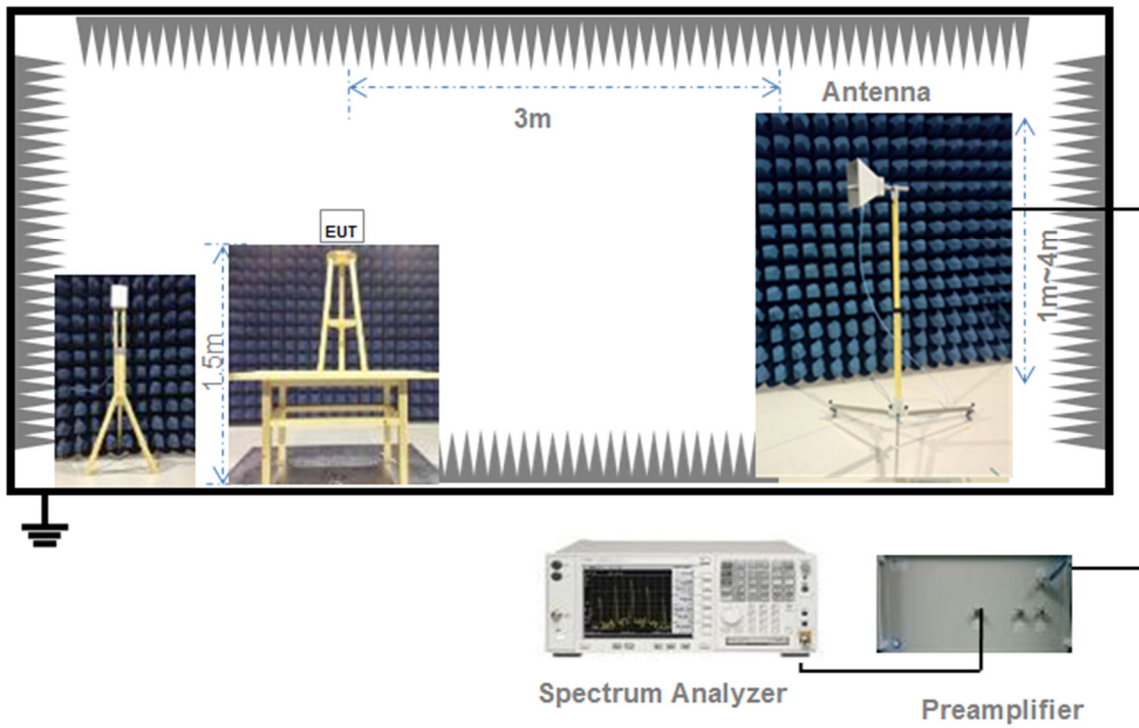
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



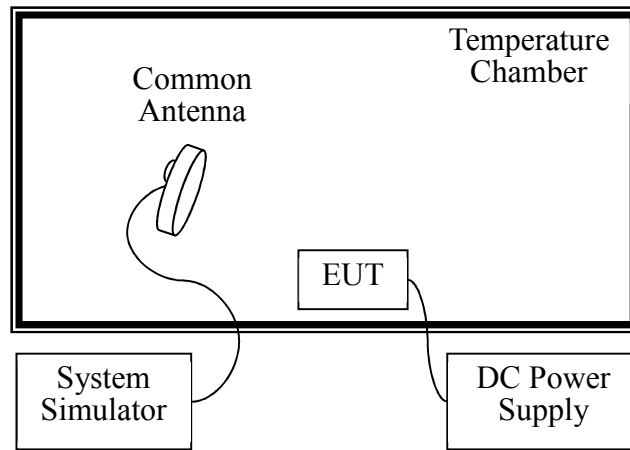
(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.4.6 For Frequency Stability Test



(Diagram 6)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

Frequency Band (MHz)	Limit
5150-5250	250 mW
5250-5350	250 mW or 11 dBm + 10log B, whichever is less.
5470-5725	250 mW or 11 dBm + 10log B, whichever is less.
5725-5850	1 W
Note: Where "B" is the 26 dB emissions bandwidth in MHz.	

RSS-247, 6.2

The maximum conducted output power shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	N/A
5250-5350	250 mW or 11 dBm + 10log B, whichever is less.
5470-5725	250 mW or 11 dBm + 10log B, whichever is less.
5725-5850	1 W
Note: Where "B" is the 99% emissions bandwidth in MHz.	

The maximum e.i.r.p. shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	200 mW or 10 dBm + 10log B, whichever is less.
5250-5350	1W or 17 dBm + 10log B, whichever is less.
5470-5725	1W or 17 dBm + 10log B, whichever is less.
5725-5850	N/A
Note: Where "B" is the 99% emissions bandwidth in MHz.	

5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

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

The E.I.R.P used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a), RSS-247, 6.2

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.2.2 Test Setup

The test setup photo please refer to 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Emission bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW $\geq 3 \times$ RBW,
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

Occupied Bandwidth

1. Set Span = 1.5 times to 5.0 times the OBW
2. Set RBW = 1% to 5% of the OBW.
3. Set VBW $\geq 3 \times$ RBW, Detector = Peak.
4. Trace mode = Max hold.
5. Use the 99% power bandwidth function of the instrument.

6 dB bandwidth

1. Set RBW = 100 kHz, VBW = 300 kHz.
2. Detector = Peak. Trace mode = Max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.2.4 Test Result

Please refer to ANNEX A.2 and ANNEX A.3.

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	11 dBm/MHz
5250-5350	11 dBm/MHz
5470-5725	11 dBm/MHz
5725-5850	30 dBm/500kHz

RSS-247, 6.2

The maximum power spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	N/A
5250-5350	11 dBm/MHz
5470-5725	11 dBm/MHz
5725-5850	30 dBm/500kHz

The e.i.r.p. spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	10 dBm/MHz
5250-5350	N/A
5470-5725	N/A
5725-5850	N/A

5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.

1. Set RBW = 510 kHz/1 MHz, VBW $\geq 3 \times$ RBW, Sweep time = Auto, Detector = RMS.
2. Allow the sweeps to continue until the trace stabilizes.
3. Use the peak marker function to determine the maximum amplitude level.
4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207, RSS-GEN, 8.8

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.4.2 Test Setup

The section 4.4.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

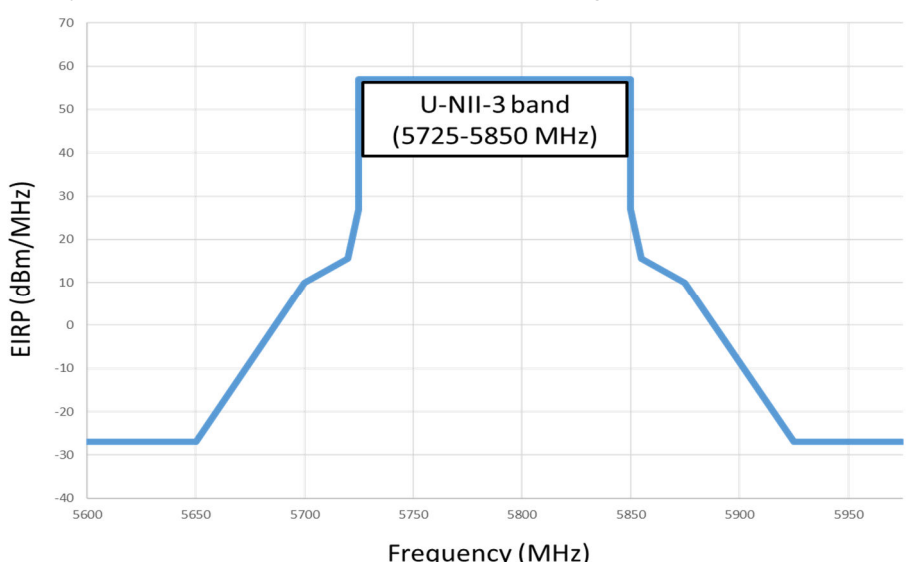
5.4.4 Test Result

Please refer to ANNEX A.5.

5.5 Conducted Spurious Emission and Band Edge (Authorized-band)

5.5.1 Limit

FCC §15.407(b)

Un-restricted band emissions	
Frequency Band (MHz)	Limit
5150 - 5250	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm
5250 - 5350	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm
5470 - 5725	Outside of the 5.47-5.725 GHz band: e.i.r.p. -27 dBm
5725 - 5850	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.  U-NII-3 band (5725-5850 MHz)

RSS-247, 6.2

Un-restricted band emissions	
Frequency Band (MHz)	Limit
5150 - 5250	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm, However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz.
5250 - 5350	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm. And any emissions within the band 5150-5250 MHz shall meet the power spectral density limits of 10 dBm/MHz, The device shall be labelled "for indoor use only."
5470 - 5725	Outside of the 5.47-5.725 GHz band: e.i.r.p. -27 dBm
5725 - 5850	5715 -5725 MHz: e.i.r.p. -17 dBm 5850 -5860 MHz: e.i.r.p. -17 dBm Other un-restricted band: e.i.r.p. -27 dBm

5.5.2 Test Setup

See section 4.4.2 (Diagram 2) for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.5.4 Test Result

Please refer to ANNEX A.6.

5.6 Radiated Spurious Emissions and Band Edge (Restricted-band)

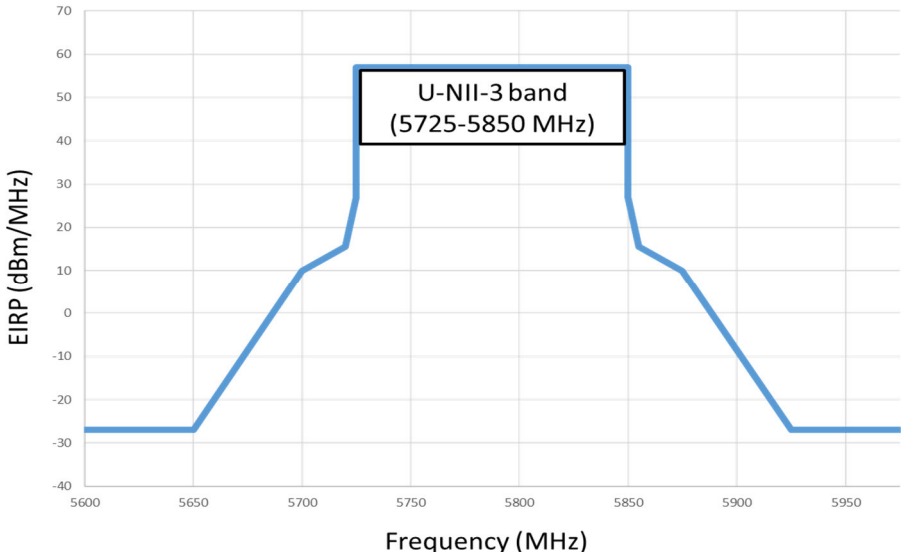
5.6.1 Limit

FCC §15.209 & 15.407(b), RSS-247, 6.2

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
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

Note¹: The Limit for radiated test was performed according to FCC Part 15C

Note²: The tighter limit applies at the band edge.

Un-restricted band emissions	
Out Operating Band (MHz)	Limit
5150 - 5250	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5250 - 5350	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5470 - 5725	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5725 - 5850	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. 

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength.

5.6.2 Test Setup

The section 4.4.3-4.4.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission

limits using a peak detector.

Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 1.
- b) VBW $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle.

The correction factor is computed as follows:

- 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
- 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
- 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360° , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.6.4 Test Result

Please refer to ANNEX A.7 and Please refer to ANNEX A.9

5.7 Frequency Stability

5.7.1 Limit

FCC §15.407(g)

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

5.7.2 Test Setup

The section 4.4.6 (Diagram 6) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

The EUT is installed in an environment test chamber with external power source.

Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.

A sufficient stabilization period at each temperatures is used prior to each frequency measurement.

When temperature is stabled, measure the frequency stability.

The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage.

Change setting of chamber and external power source to complete all conditions.

5.7.4 Test Result

Please refer to ANNEX A.8.

ANNEX A TEST RESULT

A.1 RF Output Power

Note: The RF Output Power please refer to the Report No. RF140808E04S-1 (FCC ID: RYK-261ACNBT) (which issued by Bureau Veritas Consumer Products Sciences (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory on Sep. 18, 2017), **Section 4.3 Transmit Power Measurement.**

A.2 Emission Bandwidth & 99% Bandwidth

Note: The Emission Bandwidth & 99% Bandwidth please refer to the Report No. RF140808E04S-1 (FCC ID: RYK-261ACNBT) (which issued by Bureau Veritas Consumer Products Sciences (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory on Sep. 18, 2017), **Section 4.1 Radiated Emission and Bandedge Measurement.**

A.3 6 dB Bandwidth

Note: The 6 dB Bandwidth please refer to the Report No. RF140808E04S-1 (FCC ID: RYK-261ACNBT) (which issued by Bureau Veritas Consumer Products Sciences (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory on Sep. 18, 2017), **Section 4.6 6 dB Bandwidth Measurement.**

A.4 Power Spectral Density

Note: The Power Spectral Density please refer to the Report No. RF140808E04S-1 (FCC ID: RYK-261ACNBT) (which issued by Bureau Veritas Consumer Products Sciences (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory on Sep. 18, 2017), **Section 4.4 Peak Power Spectral Density Measurement.**

A.5 Conducted Emissions

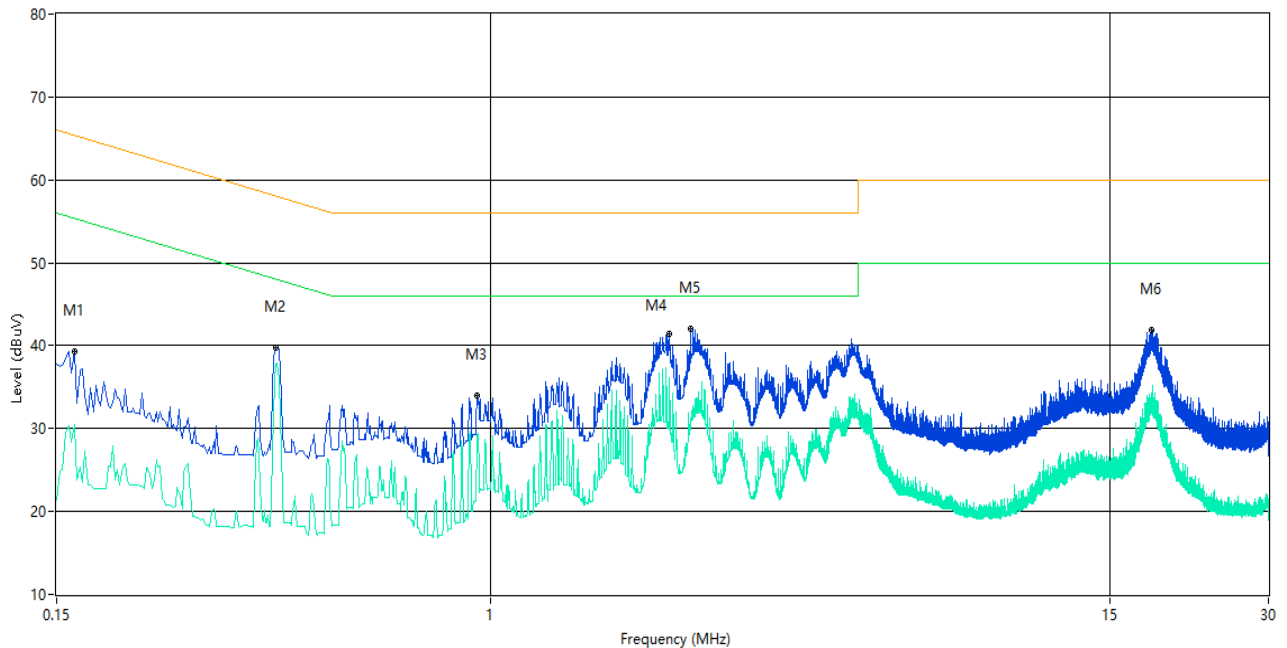
Note 1: The EUT is working in the Normal link mode.

Note 2: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Test Data and Plots

PHASE L

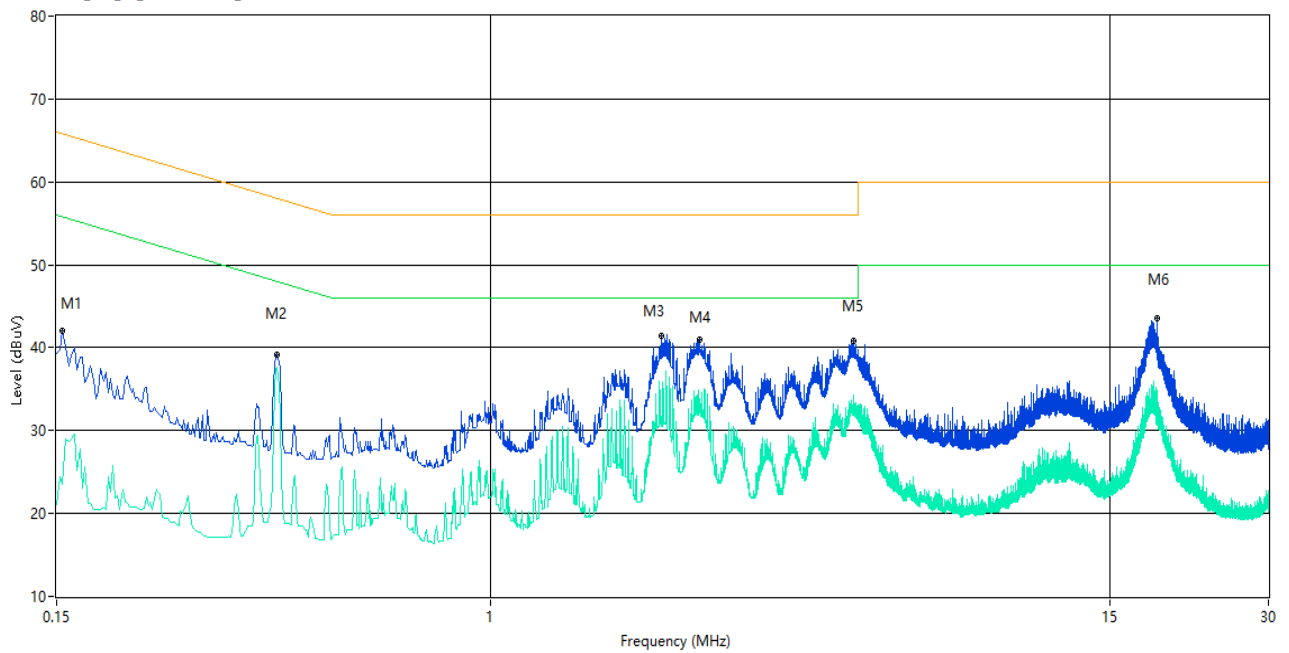
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.162	39.2	10.01	65.4	-26.20	Peak	L Line	Pass
1**	0.162	30.5	10.01	55.4	-24.90	AV	L Line	Pass
2	0.392	39.8	10.02	58.0	-18.20	Peak	L Line	Pass
2**	0.392	37.7	10.02	48.0	-10.30	AV	L Line	Pass
3	0.944	34.0	10.03	56.0	-22.00	Peak	L Line	Pass
3**	0.944	29.1	10.03	46.0	-16.90	AV	L Line	Pass
4	2.182	41.5	10.07	56.0	-14.50	Peak	L Line	Pass
4**	2.182	33.7	10.07	46.0	-12.30	AV	L Line	Pass
5	2.402	42.1	10.07	56.0	-13.90	Peak	L Line	Pass
5**	2.402	31.1	10.07	46.0	-14.90	AV	L Line	Pass
6	18.000	41.9	10.23	60.0	-18.10	Peak	L Line	Pass
6**	18.000	33.8	10.23	50.0	-16.20	AV	L Line	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15B_ Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.154	42.0	10.01	65.8	-23.80	Peak	N Line	Pass
1**	0.154	23.5	10.01	55.8	-32.30	AV	N Line	Pass
2	0.394	39.1	10.02	58.0	-18.90	Peak	N Line	Pass
2**	0.394	37.6	10.02	48.0	-10.40	AV	N Line	Pass
3	2.108	41.4	10.06	56.0	-14.60	Peak	N Line	Pass
3**	2.108	31.7	10.06	46.0	-14.30	AV	N Line	Pass
4	2.492	41.0	10.08	56.0	-15.00	Peak	N Line	Pass
4**	2.492	32.2	10.08	46.0	-13.80	AV	N Line	Pass
5	4.886	40.8	10.12	56.0	-15.20	Peak	N Line	Pass
5**	4.886	31.7	10.12	46.0	-14.30	AV	N Line	Pass
6	18.402	43.5	10.23	60.0	-16.50	Peak	N Line	Pass
6**	18.402	30.1	10.23	50.0	-19.90	AV	N Line	Pass

A.6 Conducted Spurious Emission and Band Edge (Authorized-band)

Note: The Conducted Spurious Emission and Band Edge (Authorized-band) please refer to the Report No. RF140808E04S-1 (FCC ID: RYK-261ACNBT) (which issued by Bureau Veritas Consumer Products Sciences (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory on Sep. 18, 2017), **Section 4.1 Radiated Emission and Bandedge Measurement & 4.2 Conducted Emission Measurement.**

A.7 Radiated Spurious Emissions and Band Edge (Restricted-band)

Test Data

Note¹: The symbol of “--” in the table which means not application.

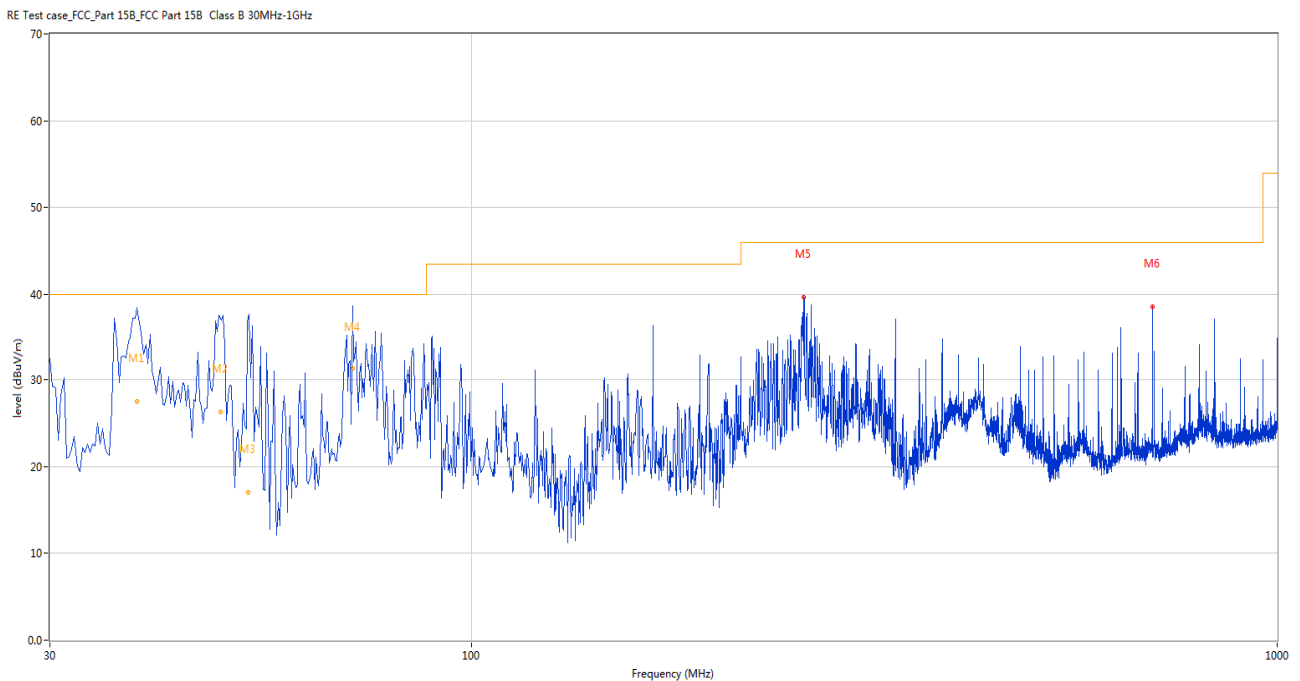
Note²: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note⁴: The EUT is working in the Normal link mode below 1 GHz.

Note⁵: All antenna were tested, but only the worst case has been reported in this report.

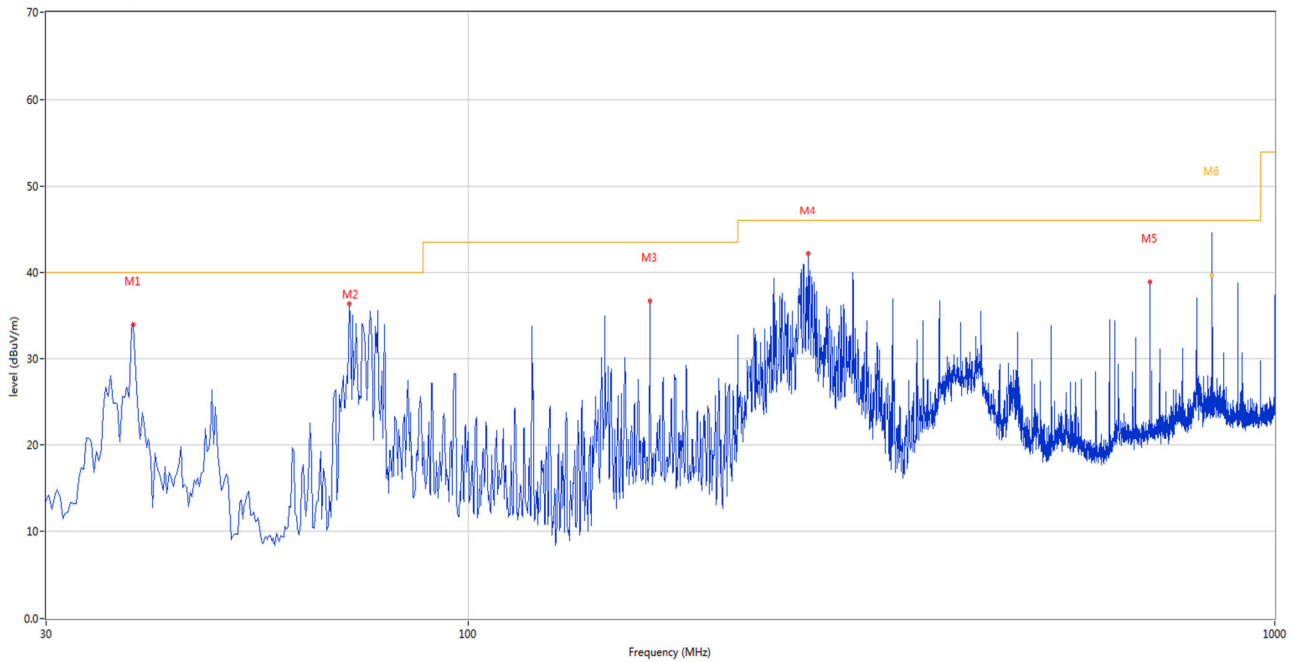
30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	38.483	35.48	-24.71	40.0	-4.52	Peak	329.60	100	V	N/A
1*	38.483	27.55	-24.71	40.0	-12.45	QP	329.60	100	V	Pass
2	48.849	36.06	-23.30	40.0	-3.94	Peak	213.80	116	V	N/A
2*	48.849	26.33	-23.30	40.0	-13.67	QP	213.80	116	V	Pass
3	52.858	23.15	-23.37	40.0	-16.85	Peak	182.10	134	V	N/A
3*	52.858	17.06	-23.37	40.0	-22.94	QP	182.10	134	V	Pass
4	71.193	40.81	-27.65	40.0	0.81	Peak	167.80	102	V	N/A
4*	71.193	31.29	-27.65	40.0	-8.71	QP	167.80	102	V	Pass
5	258.677	39.68	-23.09	46.0	-6.32	Peak	105.00	100	V	Pass
6	700.028	38.56	-13.54	46.0	-7.44	Peak	213.80	100	V	Pass

30 MHz to 1 GHz, ANT H

RE Test case_FCC_Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	38.487	33.99	-24.71	40.0	-6.01	Peak	151.60	100	H	Pass
2	71.225	36.36	-27.65	40.0	-3.64	Peak	20.10	200	H	Pass
3	167.982	36.72	-27.24	43.5	-6.78	Peak	250.20	200	H	Pass
4	264.013	42.18	-22.58	46.0	-3.82	Peak	235.60	100	H	Pass
5	700.028	38.90	-13.54	46.0	-7.10	Peak	360.00	200	H	Pass
6	836.606	43.46	-11.32	46.0	-2.54	Peak	61.80	199	H	N/A
6*	836.606	39.77	-11.32	46.0	-6.23	QP	61.80	199	H	Pass

Note 1: The spurious from 18G-40G is noise only, do not show on the report.

Note 2: All antenna were tested, but only the worst case has been reported in this report.

1 GHz to 40 GHz, ANT V Band I 11n40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1473.500	25.89	-17.62	54.0	-28.11	AV	239.00	150	V	Pass
1	1473.500	36.84	-17.62	74.0	-37.16	Peak	239.00	150	V	Pass
2**	2783.000	31.83	-10.10	54.0	-22.17	AV	224.00	150	V	Pass
2	2783.000	42.67	-10.10	74.0	-31.33	Peak	224.00	150	V	Pass
3**	4079.000	36.09	-5.21	54.0	-17.91	AV	273.00	150	V	Pass
3	4079.000	46.33	-5.21	74.0	-27.67	Peak	273.00	150	V	Pass
4**	5174.000	91.63	-2.70	--	91.63	AV	207.00	150	V	N/A
4	5174.000	99.81	-2.70	--	-107.19	Peak	207.00	150	V	N/A
5**	11454.812	39.65	0.24	54.0	-14.35	AV	227.00	150	V	Pass
5	11454.812	50.39	0.24	74.0	-23.61	Peak	227.00	150	V	Pass
6**	15808.125	44.02	2.81	54.0	-9.98	AV	65.00	150	V	Pass
6	15808.125	54.79	2.81	74.0	-19.21	Peak	65.00	150	V	Pass

1 GHz to 40 GHz, ANT H Band I 11n40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1483.500	26.11	-17.41	54.0	-27.89	AV	252.00	150	H	Pass
1	1483.500	36.73	-17.41	74.0	-37.27	Peak	252.00	150	H	Pass
2**	2794.000	31.98	-10.29	54.0	-22.02	AV	38.00	150	H	Pass
2	2794.000	42.20	-10.29	74.0	-31.80	Peak	38.00	150	H	Pass
3**	4041.000	35.89	-5.77	54.0	-18.11	AV	360.00	150	H	Pass
3	4041.000	46.58	-5.77	74.0	-27.42	Peak	360.00	150	H	Pass
4**	5206.000	80.24	-2.61	--	80.24	AV	255.00	150	H	N/A
4	5206.000	88.20	-2.61	--	-166.80	Peak	255.00	150	H	N/A
5**	11946.438	40.32	1.61	54.0	-13.68	AV	360.00	150	H	Pass
5	11946.438	50.92	1.61	74.0	-23.08	Peak	360.00	150	H	Pass
6**	15617.812	43.79	2.52	54.0	-10.21	AV	33.00	150	H	Pass
6	15617.812	54.97	2.52	74.0	-19.03	Peak	33.00	150	H	Pass

1 GHz to 40 GHz, ANT V Band I 11n40 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1337.500	26.55	-17.24	54.0	-27.45	AV	58.00	150	V	Pass
1	1337.500	36.58	-17.24	74.0	-37.42	Peak	58.00	150	V	Pass
2**	2843.500	31.83	-10.30	54.0	-22.17	AV	297.00	150	V	Pass
2	2843.500	42.46	-10.30	74.0	-31.54	Peak	297.00	150	V	Pass
3**	3887.000	35.20	-5.38	54.0	-18.80	AV	330.00	150	V	Pass
3	3887.000	47.34	-5.38	74.0	-26.66	Peak	330.00	150	V	Pass
4**	5246.000	91.07	-3.14	--	91.07	AV	215.00	150	V	N/A
4	5246.000	98.24	-3.14	--	-116.76	Peak	215.00	150	V	N/A
5**	7518.938	37.75	-2.06	54.0	-16.25	AV	0.00	150	V	Pass
5	7518.938	48.10	-2.06	74.0	-25.90	Peak	0.00	150	V	Pass
6**	11124.187	39.52	-0.43	54.0	-14.48	AV	254.00	150	V	Pass
6	11124.187	50.87	-0.43	74.0	-23.13	Peak	254.00	150	V	Pass

1 GHz to 40 GHz, ANT H Band I 11n40 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1485.000	26.39	-17.43	54.0	-27.61	AV	267.00	150	H	Pass
1	1485.000	36.69	-17.43	74.0	-37.31	Peak	267.00	150	H	Pass
2**	2787.000	32.45	-9.98	54.0	-21.55	AV	203.00	150	H	Pass
2	2787.000	42.57	-9.98	74.0	-31.43	Peak	203.00	150	H	Pass
3**	3986.000	35.92	-4.06	54.0	-18.08	AV	197.00	150	H	Pass
3	3986.000	46.90	-4.06	74.0	-27.10	Peak	197.00	150	H	Pass
4**	5242.000	79.96	-3.03	--	79.96	AV	79.00	150	H	N/A
4	5242.000	87.33	-3.03	--	8.33	Peak	79.00	150	H	N/A
5**	7518.938	37.99	-2.06	54.0	-16.01	AV	332.00	150	H	Pass
5	7518.938	48.19	-2.06	74.0	-25.81	Peak	332.00	150	H	Pass
6**	11765.313	39.55	1.43	54.0	-14.45	AV	360.00	150	H	Pass
6	11765.313	51.14	1.43	74.0	-22.86	Peak	360.00	150	H	Pass

1 GHz to 40 GHz, ANT V Band II 11n40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1559.500	25.97	-17.56	54.0	-28.03	AV	347.00	150	V	Pass
1	1559.500	39.88	-17.56	74.0	-34.12	Peak	347.00	150	V	Pass
2**	2755.500	31.85	-10.58	54.0	-22.15	AV	265.00	150	V	Pass
2	2755.500	42.33	-10.58	74.0	-31.67	Peak	265.00	150	V	Pass
3**	4169.000	36.51	-4.61	54.0	-17.49	AV	168.00	150	V	Pass
3	4169.000	47.09	-4.61	74.0	-26.91	Peak	168.00	150	V	Pass
4**	5280.000	91.36	-2.79	--	91.36	AV	220.00	150	V	N/A
4	5280.000	99.08	-2.79	--	-120.92	Peak	220.00	150	V	N/A
5**	8193.125	37.75	-1.97	54.0	-16.25	AV	310.00	150	V	Pass
5	8193.125	49.43	-1.97	74.0	-24.57	Peak	310.00	150	V	Pass
6**	12265.562	39.97	1.51	54.0	-14.03	AV	360.00	150	V	Pass
6	12265.562	51.62	1.51	74.0	-22.38	Peak	360.00	150	V	Pass

1 GHz to 40 GHz, ANT H Band II 11n40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1207.000	25.63	-17.63	54.0	-28.37	AV	277.00	150	H	Pass
1	1207.000	36.36	-17.63	74.0	-37.64	Peak	277.00	150	H	Pass
2**	2736.500	31.25	-11.03	54.0	-22.75	AV	163.00	150	H	Pass
2	2736.500	42.35	-11.03	74.0	-31.65	Peak	163.00	150	H	Pass
3**	3995.000	36.11	-4.00	54.0	-17.89	AV	285.00	150	H	Pass
3	3995.000	46.52	-4.00	74.0	-27.48	Peak	285.00	150	H	Pass
4**	5263.000	79.88	-3.15	--	79.88	AV	268.00	150	H	N/A
4	5263.000	87.80	-3.15	--	-180.20	Peak	268.00	150	H	N/A
5**	8309.562	37.87	-1.12	54.0	-16.13	AV	179.00	150	H	Pass
5	8309.562	48.36	-1.12	74.0	-25.64	Peak	179.00	150	H	Pass
6**	11940.688	40.02	1.77	54.0	-13.98	AV	33.00	150	H	Pass
6	11940.688	51.62	1.77	74.0	-22.38	Peak	33.00	150	H	Pass

1 GHz to 40 GHz, ANT V Band II 11n40 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1580.000	26.72	-17.26	54.0	-27.28	AV	40.00	150	V	Pass
1	1580.000	36.73	-17.26	74.0	-37.27	Peak	40.00	150	V	Pass
2**	2786.000	32.41	-9.87	54.0	-21.59	AV	40.00	150	V	Pass
2	2786.000	42.50	-9.87	74.0	-31.50	Peak	40.00	150	V	Pass
3**	4050.000	35.69	-5.69	54.0	-18.31	AV	241.00	150	V	Pass
3	4050.000	46.31	-5.69	74.0	-27.69	Peak	241.00	150	V	Pass
4**	5323.000	91.11	-3.08	--	91.11	AV	0.00	150	V	N/A
4	5323.000	98.23	-3.08	--	98.23	Peak	0.00	150	V	N/A
5**	8299.500	37.60	-1.06	54.0	-16.40	AV	304.00	150	V	Pass
5	8299.500	48.44	-1.06	74.0	-25.56	Peak	304.00	150	V	Pass
6**	11650.312	40.14	0.14	54.0	-13.86	AV	3.00	150	V	Pass
6	11650.312	50.62	0.14	74.0	-23.38	Peak	3.00	150	V	Pass

1 GHz to 40 GHz, ANT H Band II 11n40 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1360.500	26.53	-17.25	54.0	-27.47	AV	35.00	150	H	Pass
1	1360.500	36.81	-17.25	74.0	-37.19	Peak	35.00	150	H	Pass
2**	2786.000	32.28	-9.87	54.0	-21.72	AV	120.00	150	H	Pass
2	2786.000	42.24	-9.87	74.0	-31.76	Peak	120.00	150	H	Pass
3**	4149.000	35.70	-5.32	54.0	-18.30	AV	233.00	150	H	Pass
3	4149.000	46.99	-5.32	74.0	-27.01	Peak	233.00	150	H	Pass
4**	5319.000	78.86	-3.52	--	78.86	AV	90.00	150	H	N/A
4	5319.000	87.81	-3.52	--	-2.19	Peak	90.00	150	H	N/A
5**	8098.250	38.45	-1.45	54.0	-15.55	AV	360.00	150	H	Pass
5	8098.250	49.05	-1.45	74.0	-24.95	Peak	360.00	150	H	Pass
6**	11766.750	39.68	1.43	54.0	-14.32	AV	360.00	150	H	Pass
6	11766.750	50.88	1.43	74.0	-23.12	Peak	360.00	150	H	Pass

1 GHz to 40 GHz, ANT V Band III 11n40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	2031.000	27.73	-13.04	--	27.73	AV	66.00	150	V	N/A
1	2031.000	38.98	-13.04	68.2	-29.22	Peak	66.00	150	V	Pass
2**	3119.000	31.80	-7.24	--	31.80	AV	256.00	150	V	N/A
2	3119.000	42.97	-7.24	68.2	-25.23	Peak	256.00	150	V	Pass
3**	5496.000	94.67	-0.35	--	94.67	AV	163.00	150	V	N/A
3	5496.000	103.83	-0.35	--	-59.17	Peak	163.00	150	V	Pass
4**	6651.000	40.04	4.07	--	40.04	AV	245.00	150	V	N/A
4	6651.000	51.79	4.07	68.2	-16.41	Peak	245.00	150	V	Pass
5**	9898.000	36.36	18.51	--	36.36	AV	56.00	150	V	N/A
5	9898.000	51.56	18.51	68.2	-16.64	Peak	56.00	150	V	Pass
6**	14017.875	37.24	23.59	--	37.24	AV	96.00	150	V	N/A
6	14017.875	53.86	23.59	68.2	-14.34	Peak	96.00	150	V	Pass

1 GHz to 40 GHz, ANT H Band III 11n40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1994.000	27.28	-13.73	--	27.28	AV	326.00	150	H	N/A
1	1994.000	37.99	-13.73	68.2	-30.21	Peak	326.00	150	H	Pass
2**	3121.000	32.78	-7.06	--	32.78	AV	120.00	150	H	N/A
2	3121.000	43.35	-7.06	68.2	-24.85	Peak	120.00	150	H	Pass
3**	5520.000	82.86	0.18	--	82.86	AV	72.00	150	H	N/A
3	5520.000	91.46	0.18	--	19.46	Peak	72.00	150	H	N/A
4**	7020.125	34.45	17.02	--	34.45	AV	101.00	150	H	N/A
4	7020.125	51.14	17.02	68.2	-17.06	Peak	101.00	150	H	Pass
5**	10188.375	35.24	17.90	--	35.24	AV	302.00	150	H	N/A
5	10188.375	51.81	17.90	68.2	-16.39	Peak	302.00	150	H	Pass
6**	14155.688	38.00	24.57	--	38.00	AV	301.00	150	H	N/A
6	14155.688	53.12	24.57	68.2	-15.08	Peak	301.00	150	H	Pass

1 GHz to 40 GHz, ANT V Band III 11n40 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1600.500	25.87	-15.37	54.0	-28.13	AV	60.00	150	V	Pass
1	1600.500	36.36	-15.37	74.0	-37.64	Peak	60.00	150	V	Pass
2**	2807.000	30.23	-9.10	54.0	-23.77	AV	60.00	150	V	Pass
2	2807.000	41.37	-9.10	74.0	-32.63	Peak	60.00	150	V	Pass
3**	4055.000	34.12	-4.42	54.0	-19.88	AV	361.00	150	V	Pass
3	4055.000	44.39	-4.42	74.0	-29.61	Peak	361.00	150	V	Pass
4**	5605.000	91.41	-0.35	--	91.41	AV	159.00	150	V	N/A
4	5605.000	99.63	-0.35	--	-59.37	Peak	159.00	150	V	N/A
5**	7593.688	34.06	17.21	54.0	-19.94	AV	93.00	150	V	Pass
5	7593.688	49.15	17.21	74.0	-24.85	Peak	93.00	150	V	Pass
6**	11786.875	37.52	20.16	54.0	-16.48	AV	93.00	150	V	Pass
6	11786.875	52.65	20.16	74.0	-21.35	Peak	93.00	150	V	Pass

1 GHz to 40 GHz, ANT H Band III 11n40 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1559.500	25.16	-15.33	54.0	-28.84	AV	347.00	150	H	Pass
1	1559.500	36.06	-15.33	74.0	-37.94	Peak	347.00	150	H	Pass
2**	2831.000	30.59	-8.36	54.0	-23.41	AV	347.00	150	H	Pass
2	2831.000	41.94	-8.36	74.0	-32.06	Peak	347.00	150	H	Pass
3**	4065.000	34.05	-4.62	54.0	-19.95	AV	361.00	150	H	Pass
3	4065.000	44.54	-4.62	74.0	-29.46	Peak	361.00	150	H	Pass
4**	5601.000	79.63	-0.17	--	79.63	AV	194.00	150	H	N/A
4	5601.000	87.00	-0.17	--	-107.00	Peak	194.00	150	H	N/A
5**	8357.000	32.92	16.62	54.0	-21.08	AV	-1.00	150	H	Pass
5	8357.000	48.82	16.62	74.0	-25.18	Peak	-1.00	150	H	Pass
6**	11762.437	37.44	20.33	54.0	-16.56	AV	18.00	150	H	Pass
6	11762.437	53.99	20.33	74.0	-20.01	Peak	18.00	150	H	Pass

1 GHz to 40 GHz, ANT V Band III 11n40 High channel CH134

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	2000.000	29.64	-13.60	--	29.64	AV	88.00	150	V	N/A
1	2000.000	37.92	-13.60	68.2	-30.28	Peak	88.00	150	V	Pass
2**	3229.000	32.81	-6.37	--	32.81	AV	153.00	150	V	N/A
2	3229.000	43.72	-6.37	68.2	-24.48	Peak	153.00	150	V	Pass
3**	5658.000	93.54	-0.79	--	93.54	AV	164.00	150	V	N/A
3	5658.000	103.17	-0.79	--	-60.83	Peak	164.00	150	V	Pass
4**	6433.000	39.58	3.04	--	39.58	AV	32.00	150	V	N/A
4	6433.000	51.13	3.04	68.2	-17.07	Peak	32.00	150	V	Pass
5**	10126.562	34.42	17.20	--	34.42	AV	114.00	150	V	N/A
5	10126.562	50.97	17.20	68.2	-17.23	Peak	114.00	150	V	Pass
6**	14052.000	38.15	24.40	--	38.15	AV	0.00	150	V	N/A
6	14052.000	52.52	24.40	68.2	-15.68	Peak	0.00	150	V	Pass

1 GHz to 40 GHz, ANT H Band III 11n40 High channel CH134

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	2075.500	28.25	-12.33	--	28.25	AV	360.00	150	H	N/A
1	2075.500	39.13	-12.33	68.2	-29.07	Peak	360.00	150	H	Pass
2**	3083.000	32.45	-6.42	--	32.45	AV	116.00	150	H	N/A
2	3083.000	43.45	-6.42	68.2	-24.75	Peak	116.00	150	H	Pass
3**	5684.000	79.41	0.14	--	79.41	AV	288.00	150	H	N/A
3	5684.000	88.61	0.14	--	-199.39	Peak	288.00	150	H	Pass
4**	6962.000	40.13	4.09	--	40.13	AV	313.00	150	H	N/A
4	6962.000	51.35	4.09	68.2	-16.85	Peak	313.00	150	H	Pass
5**	9900.875	36.16	18.58	--	36.16	AV	186.00	150	H	N/A
5	9900.875	50.78	18.58	68.2	-17.42	Peak	186.00	150	H	Pass
6**	14103.187	37.87	25.50	--	37.87	AV	0.00	150	H	N/A
6	14103.187	52.95	25.50	68.2	-15.25	Peak	0.00	150	H	Pass

1 GHz to 40 GHz, ANT V Band IV 11n40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1544.000	26.40	-17.51	54.0	-27.60	AV	158.00	150	V	Pass
1	1544.000	37.03	-17.51	74.0	-36.97	Peak	158.00	150	V	Pass
2**	2794.000	31.54	-10.29	54.0	-22.46	AV	0.00	150	V	Pass
2	2794.000	42.84	-10.29	74.0	-31.16	Peak	0.00	150	V	Pass
3**	3996.000	36.22	-4.08	54.0	-17.78	AV	347.00	150	V	Pass
3	3996.000	46.97	-4.08	74.0	-27.03	Peak	347.00	150	V	Pass
4**	4819.000	38.77	-2.71	54.0	-15.23	AV	214.00	150	V	Pass
4	4819.000	49.49	-2.71	74.0	-24.51	Peak	214.00	150	V	Pass
5**	5745.000	87.07	-2.34	--	87.07	AV	347.00	150	V	N/A
5	5745.000	96.31	-2.34	--	-250.69	Peak	347.00	150	V	N/A
6**	7467.188	37.31	-3.19	54.0	-16.69	AV	73.00	150	V	Pass
6	7467.188	47.81	-3.19	74.0	-26.19	Peak	73.00	150	V	Pass

1 GHz to 40 GHz, ANT H Band IV 11n40 Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1484.500	26.53	-17.42	54.0	-27.47	AV	359.00	150	H	Pass
1	1484.500	37.65	-17.42	74.0	-36.35	Peak	359.00	150	H	Pass
2**	2759.500	31.56	-10.65	54.0	-22.44	AV	114.00	150	H	Pass
2	2759.500	42.67	-10.65	74.0	-31.33	Peak	114.00	150	H	Pass
3**	3831.000	35.28	-6.27	54.0	-18.72	AV	316.00	150	H	Pass
3	3831.000	46.32	-6.27	74.0	-27.68	Peak	316.00	150	H	Pass
4**	4756.000	38.51	-2.83	54.0	-15.49	AV	347.00	150	H	Pass
4	4756.000	50.07	-2.83	74.0	-23.93	Peak	347.00	150	H	Pass
5**	5738.000	74.28	-2.34	--	74.28	AV	17.00	150	H	N/A
5	5738.000	83.88	-2.34	--	66.88	Peak	17.00	150	H	N/A
6**	11853.000	39.36	1.50	54.0	-14.64	AV	134.00	150	H	Pass
6	11853.000	50.30	1.50	74.0	-23.70	Peak	134.00	150	H	Pass

1 GHz to 40 GHz, ANT V Band IV 11n40 High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1515.500	25.89	-17.45	54.0	-28.11	AV	235.00	150	V	Pass
1	1515.500	53.93	-17.45	74.0	-20.07	Peak	235.00	150	V	Pass
2**	2855.000	32.66	-9.90	54.0	-21.34	AV	122.00	150	V	Pass
2	2855.000	43.93	-9.90	74.0	-30.07	Peak	122.00	150	V	Pass
3**	5804.000	92.60	-1.80	--	92.60	AV	341.00	150	V	N/A
3	5804.000	100.35	-1.80	--	-240.65	Peak	341.00	150	V	Pass
4**	6678.000	43.73	1.62	--	43.73	AV	33.00	150	V	N/A
4	6678.000	53.65	1.62	68.2	-14.55	Peak	33.00	150	V	Pass
5**	14439.187	42.64	2.65	--	42.64	AV	160.00	150	V	N/A
5	14439.187	54.13	2.65	68.2	-14.07	Peak	160.00	150	V	Pass
6**	17394.938	44.85	4.16	--	44.85	AV	280.00	150	V	N/A
6	17394.938	56.09	4.16	68.2	-12.11	Peak	280.00	150	V	Pass

1 GHz to 40 GHz, ANT H Band IV 11n40 High channel

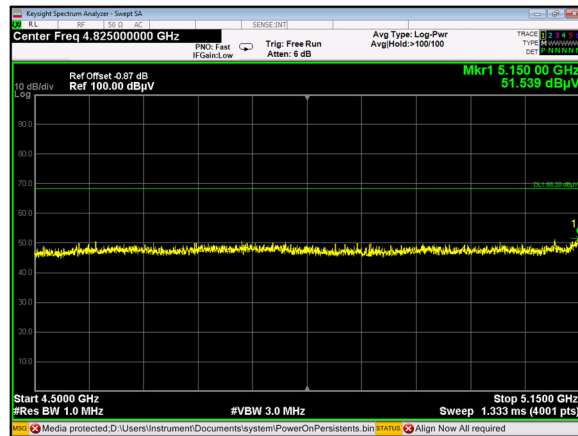
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1770.000	26.63	-16.95	--	26.63	AV	260.00	150	H	N/A
1	1770.000	43.47	-16.95	68.2	-24.73	Peak	260.00	150	H	Pass
2**	3986.000	36.31	-4.06	54.0	-17.69	AV	360.00	150	H	Pass
2	3986.000	46.96	-4.06	74.0	-27.04	Peak	360.00	150	H	Pass
3**	5802.000	82.13	-1.70	--	82.13	AV	74.00	150	H	N/A
3	5802.000	89.99	-1.70	--	15.99	Peak	74.00	150	H	N/A
4**	6679.000	43.48	1.57	--	43.48	AV	219.00	150	H	N/A
4	6679.000	54.27	1.57	68.2	-13.93	Peak	219.00	150	H	Pass
5**	12676.688	40.64	1.30	54.0	-13.36	AV	56.00	150	H	Pass
5	12676.688	51.72	1.30	74.0	-22.28	Peak	56.00	150	H	Pass
6**	17471.062	45.77	3.74	--	45.77	AV	26.00	150	H	N/A
6	17471.062	55.70	3.74	68.2	-12.50	Peak	26.00	150	H	Pass

A.7.2 Band Edge (Restricted-band)

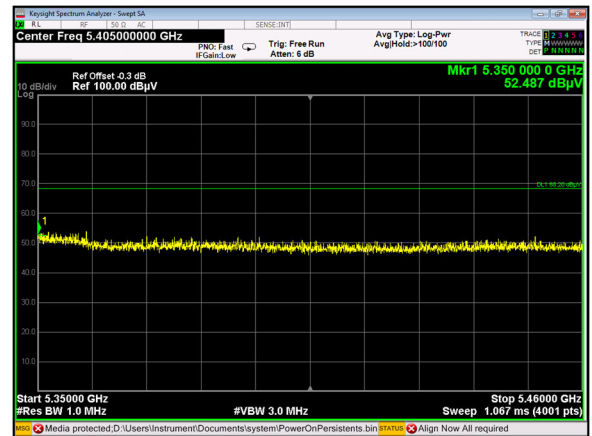
Test Band	Mode	Channel	Verdict
Band I & Band II	802.11n(HT40)	Low	Pass
		High	Pass
Band III	802.11n(HT40)	Low	Pass
		High	Pass
Band IV	802.11n(HT40)	Low	Pass
		High	Pass

Test Plots

Band I & Band II 802.11n(HT40) Low channel



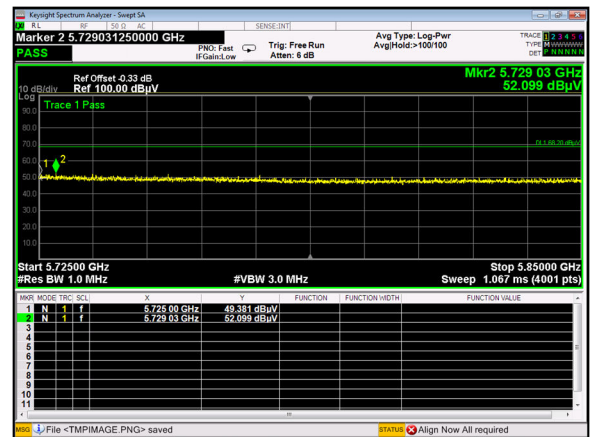
Band I & Band II 802.11n(HT40) High channel



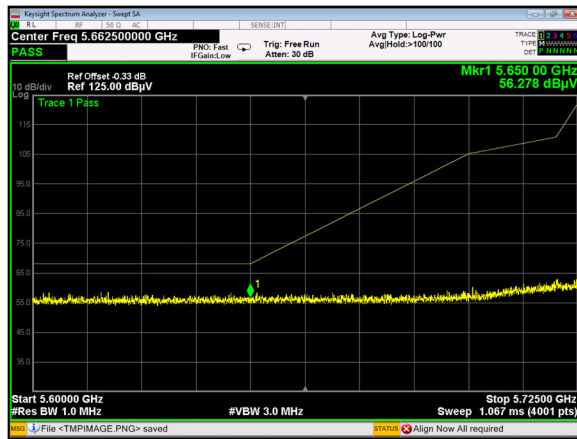
Band III 802.11n(HT40) Low channel



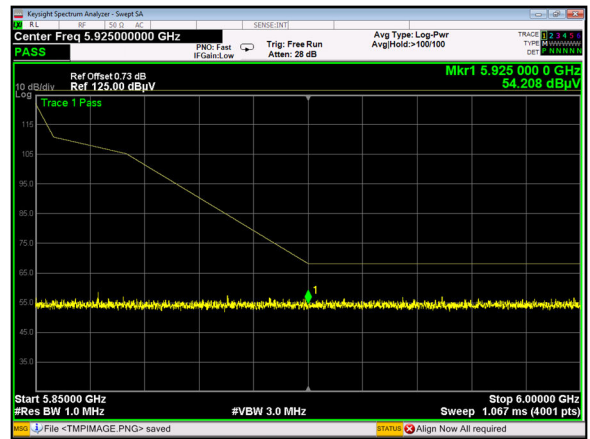
Band III 802.11n(HT40) High channel



Band IV 802.11n(HT40) Low channel



Band IV 802.11n(HT40) High channel



A.8 Frequency Stability

Note: The Frequency Stability please refer to the Report No. RF140808E04S-1 (FCC ID: RYK-261ACNBT) (which issued by Bureau Veritas Consumer Products Sciences (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory on Sep. 18, 2017), **Section 4.5 Frequency Stability Measurement.**

ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-EC18C0175-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-EC18C0175-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-EC18C0175-AI.PDF".

--END OF REPORT--