



FCC RF Test Report

APPLICANT : SHARP CORPORATION, IoT Communication BU
EQUIPMENT : Smart Phone
FCC ID : APYHRO00246
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Aug. 23, 2016 and testing was completed on Nov. 18, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

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FCC ID : APYHRO00246

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TABLE OF CONTENTS

SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant	5
1.2 Manufacturer	5
1.3 Product Feature of Equipment Under Test	5
1.4 Product Specification of Equipment Under Test	6
1.5 Modification of EUT	6
1.6 Testing Location	7
1.7 Applicable Standards	7
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	8
2.1 Carrier Frequency Channel	8
2.2 Test Mode	9
2.3 Connection Diagram of Test System	10
2.4 Support Unit used in test configuration and system	10
2.5 EUT Operation Test Setup	10
2.6 Measurement Results Explanation Example	11
3 TEST RESULT	12
3.1 26dB & 99% Occupied Bandwidth Measurement	12
3.2 Maximum Conducted Output Power Measurement	14
3.3 Power Spectral Density Measurement	16
3.4 Unwanted Radiated Emission Measurement	18
3.5 AC Conducted Emission Measurement	23
3.6 Frequency Stability Measurement	27
3.7 Automatically Discontinue Transmission	28
3.8 Antenna Requirements	29
4 LIST OF MEASURING EQUIPMENTS	30
5 UNCERTAINTY OF EVALUATION	31
APPENDIX A. CONDUCTED TEST RESULTS	
APPENDIX B. RADIATED SPURIOUS EMISSION	
APPENDIX C. RADIATED SPURIOUS EMISSION PLOTS	
APPENDIX D. DUTY CYCLE PLOTS	
APPENDIX E. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR682304D	Rev. 01	Initial issue of report	Dec. 29, 2016



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	$\leq -17, -27$ dBm (depend on band) &15.209(a)	Pass	Under limit 4.99 dB at 43.580 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 14.40 dB at 0.558 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

SHARP CORPORATION, IoT Communication BU

2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi, Hiroshima pref. 739-0192, Japan

1.2 Manufacturer

FIH Co., LTD.

No. 4, Minsheng St., Tucheng Dist., New Taipei City 23679, Taiwan (R.O.C.)

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
FCC ID	APYHRO00246
EUT supports Radios application	GSM/GPRS/WCDMA/HSPA/LTE WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 Bluetooth BR/EDR/LE
HW Version	DVT
SW Version	000C_1_050
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz
Maximum Output Power to Antenna	<5180 MHz ~ 5240 MHz> 802.11a : 13.43 dBm / 0.0220 W 802.11n HT20 : 13.28 dBm / 0.0213 W 802.11n HT40 : 13.26 dBm / 0.0212 W <5260 MHz ~ 5320 MHz> 802.11a : 13.39 dBm / 0.0218 W 802.11n HT20 : 13.38 dBm / 0.0218 W 802.11n HT40 : 13.25 dBm / 0.0211 W <5500 MHz ~ 5700 MHz > 802.11a : 13.54 dBm / 0.0226 W 802.11n HT20 : 13.49 dBm / 0.0223 W 802.11n HT40 : 13.47 dBm / 0.0222 W
99% Occupied Bandwidth	802.11a : 18.88 MHz 802.11n HT20 : 19.48 MHz 802.11n HT40 : 36.66 MHz
Antenna Gain / Gain	<5150 MHz ~ 5250 MHz> PIFA Antenna with gain -4.14 dBi <5250 MHz ~ 5350 MHz> PIFA Antenna with gain -3.26 dBi <5470 MHz ~ 5725 MHz> PIFA Antenna with gain 0.10 dBi
Type of Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	CO05-HY	

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.	
Test Site Location	No. 101, Complex Building C, Guanlong Village, Xili Town, Nanshan District, Shenzhen, Guangdong, P.R.C. TEL: +86-755-8637-9589	
Test Site No.	Sporton Site No.	
	TH01-SZ	03CH03-SZ

Note: The test site complies with ANSI C63.4 2014 requirement.

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	126*	5630
	120	5600	128	5640
	124	5620		

Note: The above Frequency and Channel in "*" were 802.11n HT40.

2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

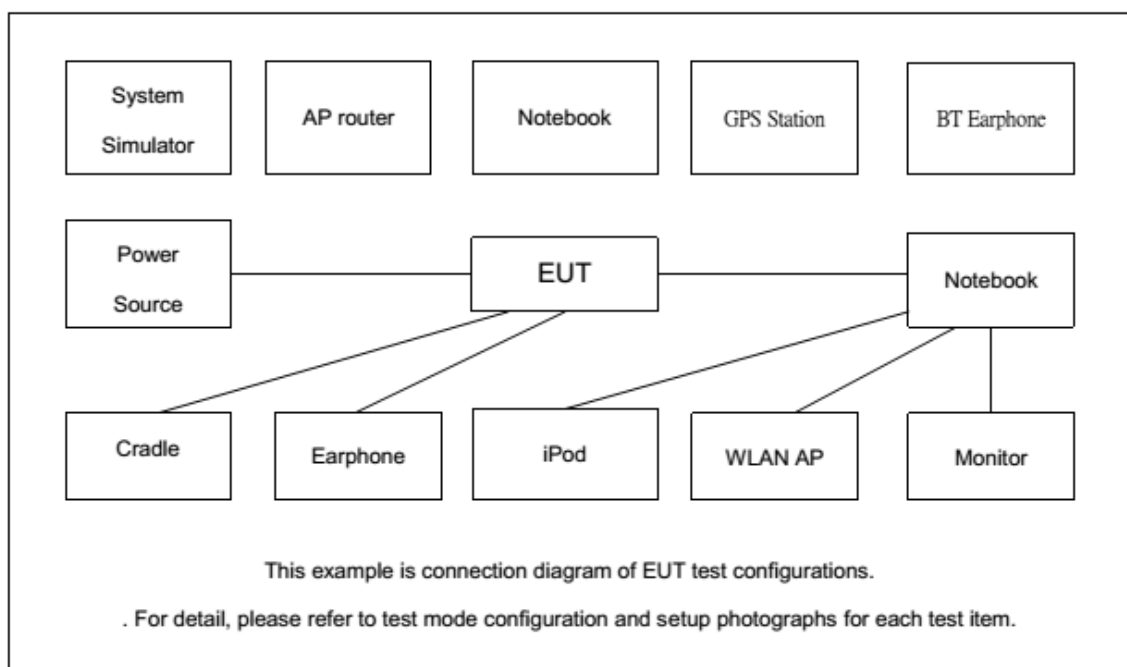
AC Conducted Emission	Mode 1 : GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + Earphone + Camera (Front) + USB Cable (Charging from Adapter)
------------------------------	---

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
5.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
6.	Adapter	SHARP	DSA-10PFL-05 FEU050200	NA	NA	NA
7.	USB Cable	SHARP	CUBB01M-FA002-DH	NA	Shielded 1.0m	NA
8.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN function, programmed RF utility, "QPST" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.



2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

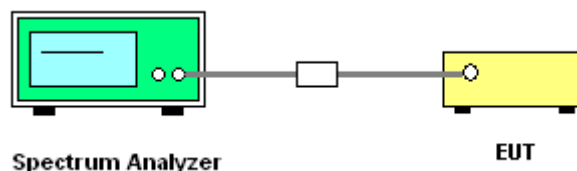
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.
Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) $\geq 3 * \text{RBW}$.
8. Measure and record the results in the test report.

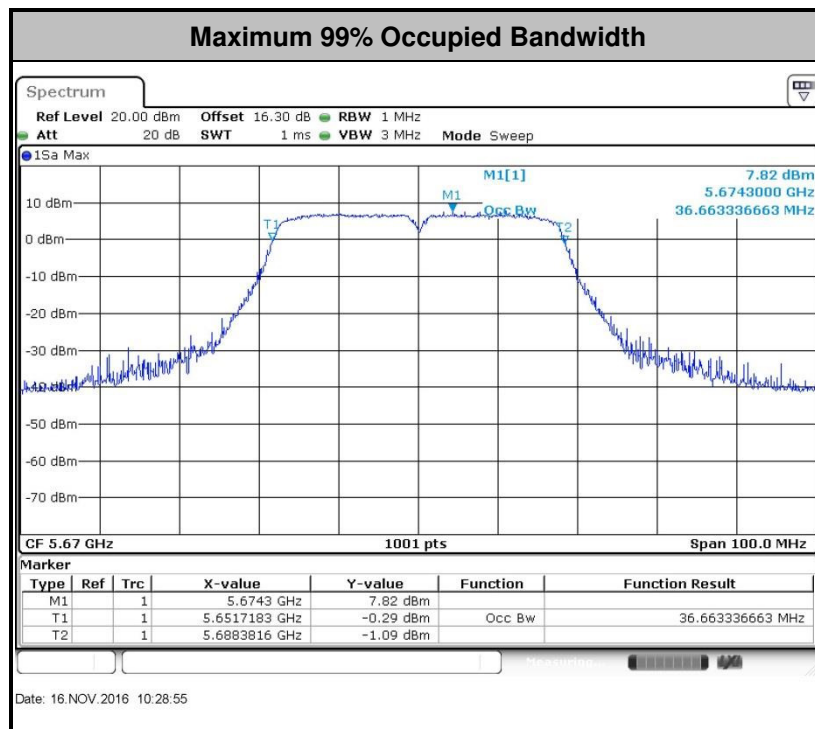
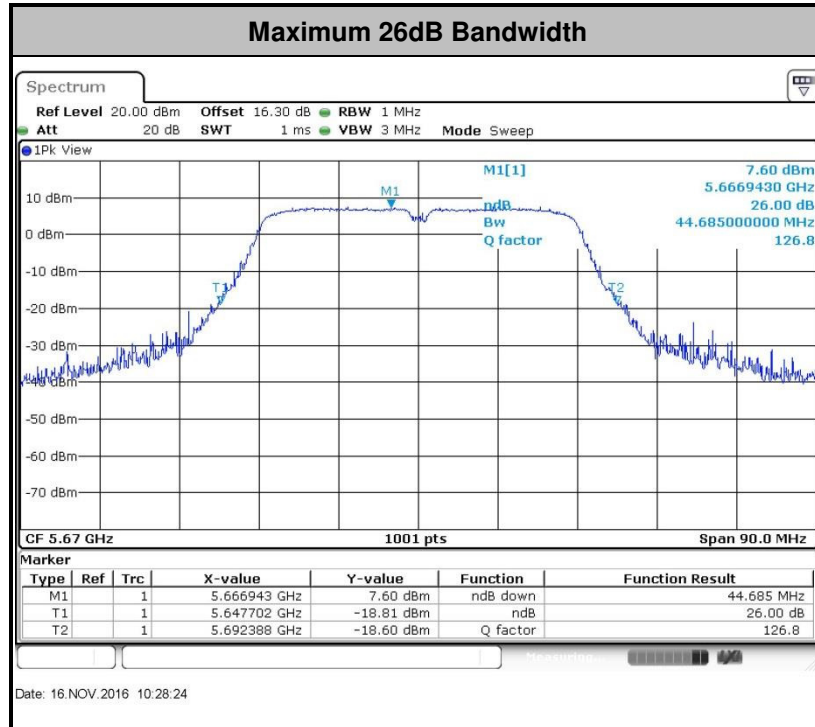
3.1.4 Test Setup





3.1.5 Test Result of 26dB & 99% Occupied Bandwidth Plots

Please refer to Appendix A.





3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

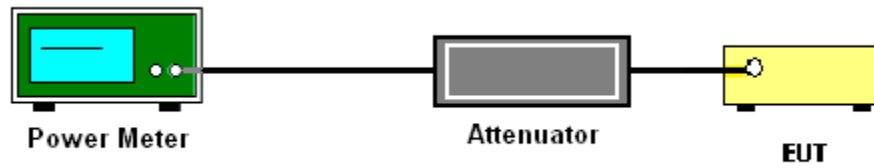
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

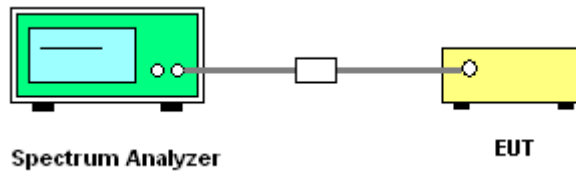
Section F) Maximum power spectral density.

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

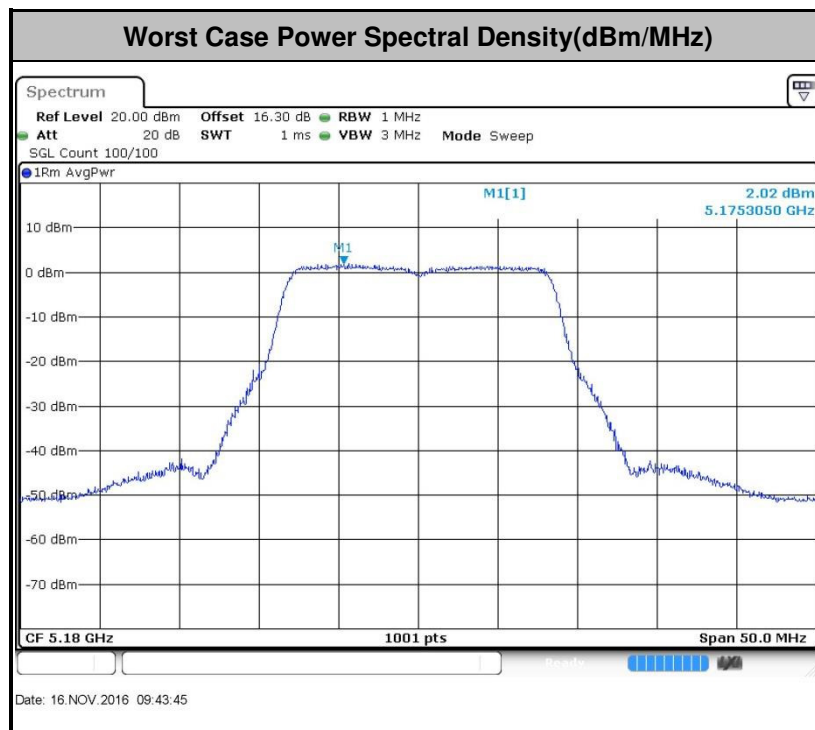
1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.
 - Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



Note: Average Power Density (dB) = Measured value+ Duty Factor

3.4 Unwanted Radiated Emission Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5725MHz band: all emissions outside of the 5470-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part 15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \text{ } \mu\text{V/m, where P is the eirp (Watts)}$$

EIRP (dBm)	Field Strength at 3m (dBμV/m)
-17	78.3
- 27	68.3

- (3) KDB789033 D01 v01r03 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

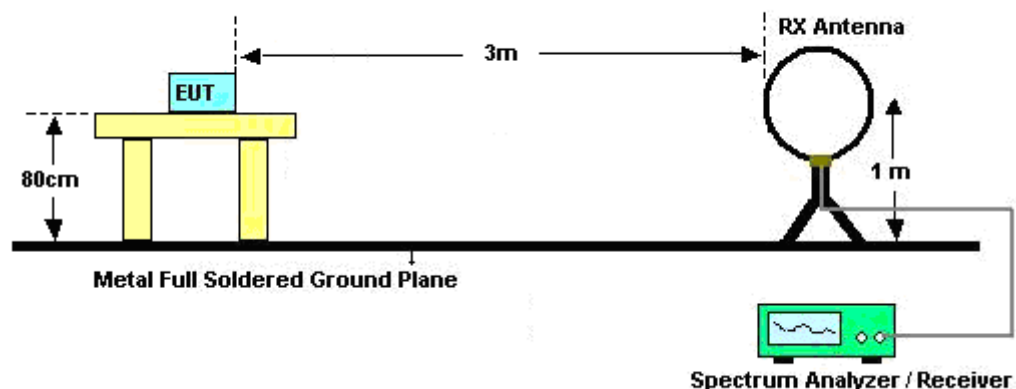
3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW ≥ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

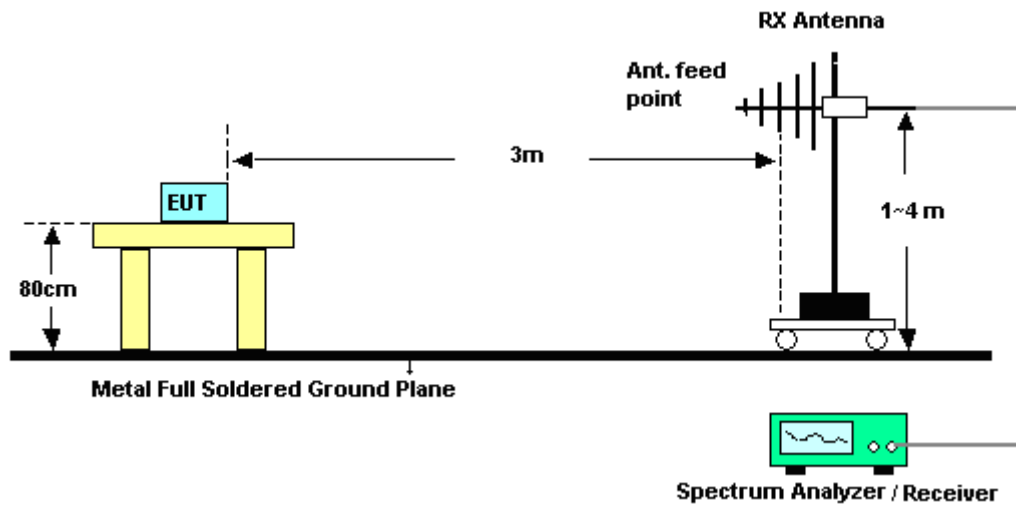
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

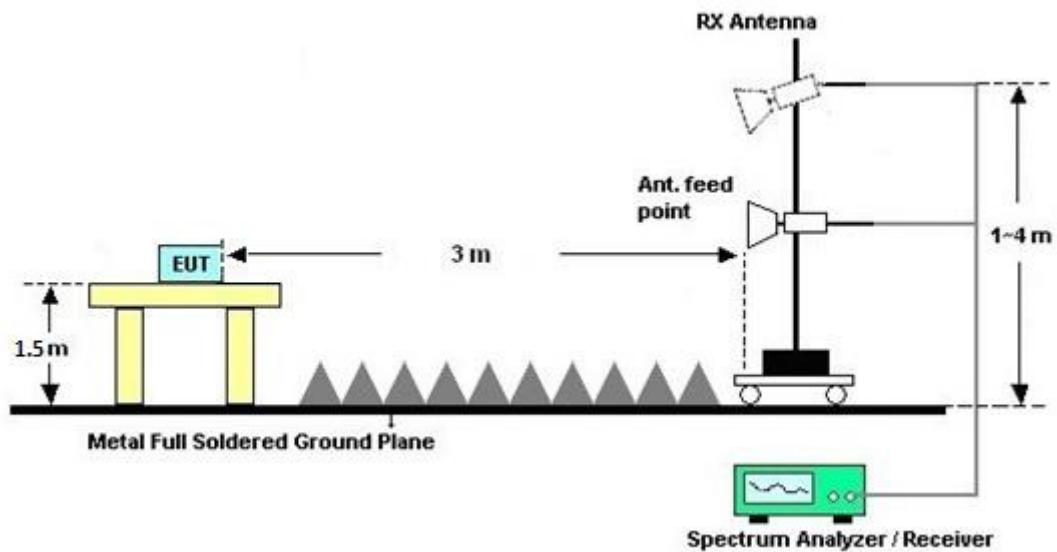
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix B and C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment 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 or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	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.

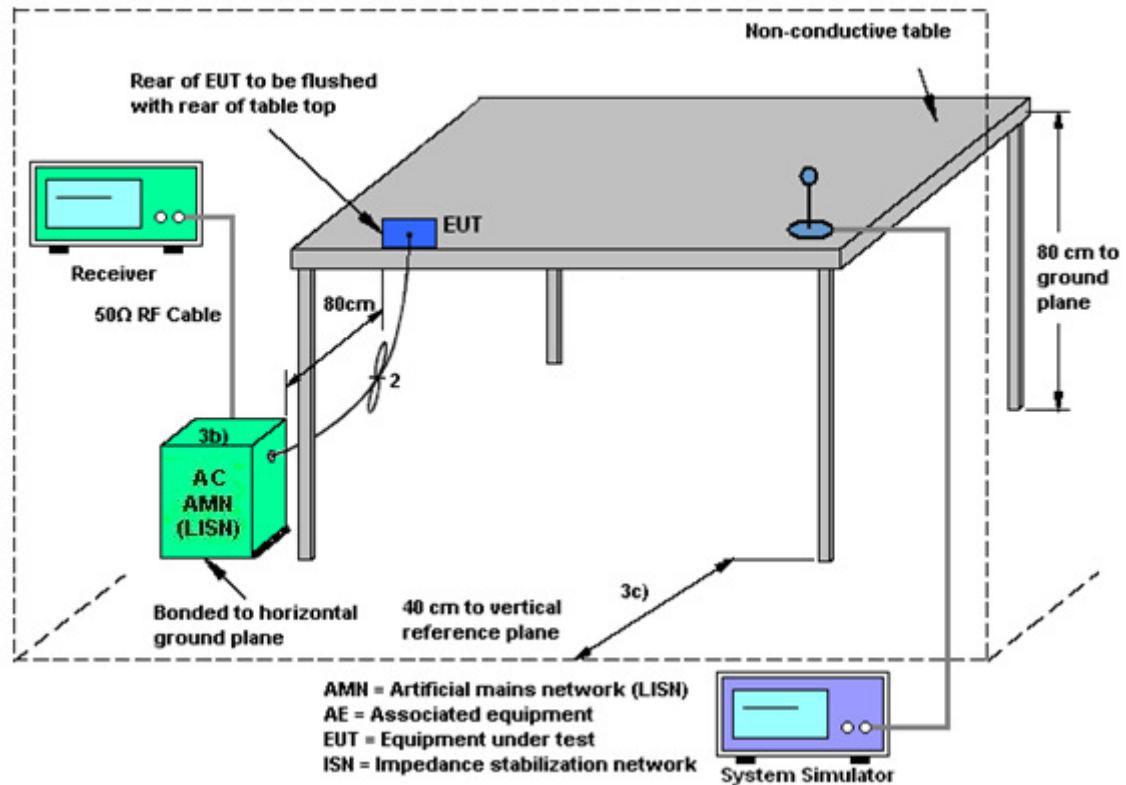
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

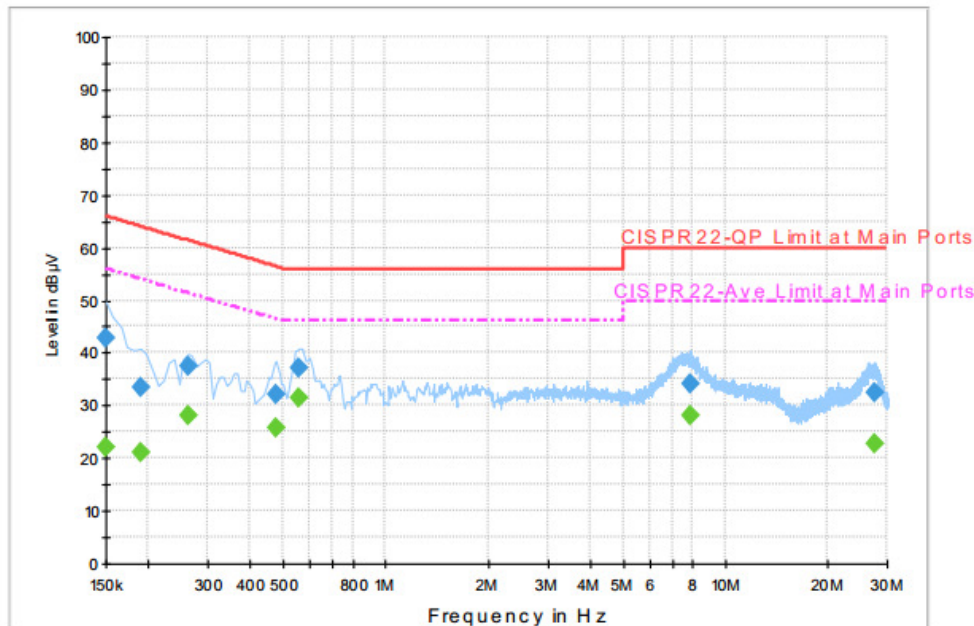
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~23℃
Test Engineer :	Arthur Hsieh	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + Earphone + Camera (Front) + USB Cable (Charging from Adapter)		



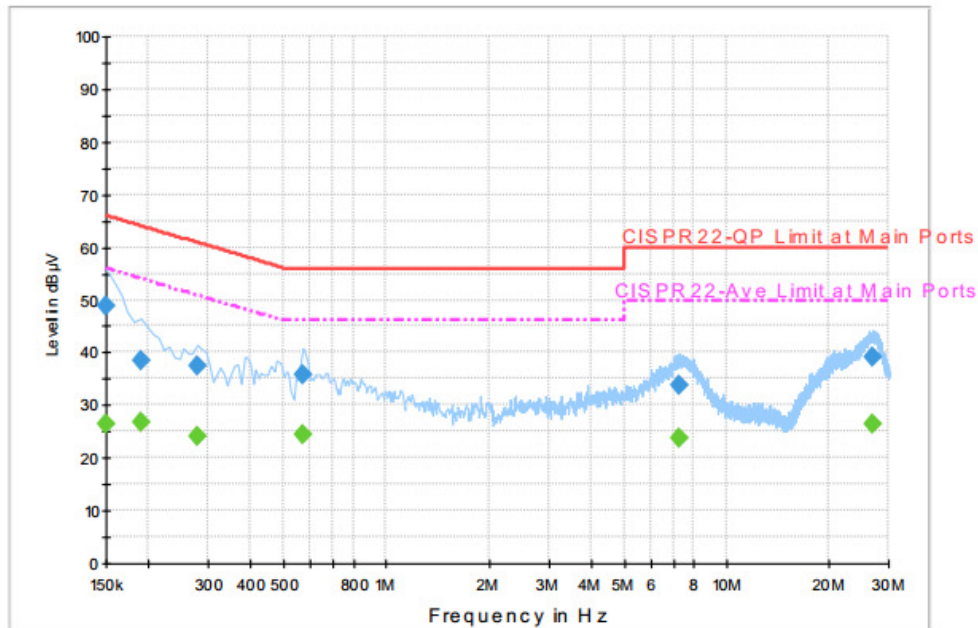
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	42.7	Off	L1	19.6	23.3	66.0
0.190000	33.5	Off	L1	19.6	30.5	64.0
0.262000	37.5	Off	L1	19.6	23.9	61.4
0.478000	32.2	Off	L1	19.6	24.2	56.4
0.558000	37.1	Off	L1	19.6	18.9	56.0
7.862000	34.3	Off	L1	20.0	25.7	60.0
27.550000	32.4	Off	L1	21.0	27.6	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	22.1	Off	L1	19.6	33.9	56.0
0.190000	21.2	Off	L1	19.6	32.8	54.0
0.262000	28.0	Off	L1	19.6	23.4	51.4
0.478000	25.6	Off	L1	19.6	20.8	46.4
0.558000	31.6	Off	L1	19.6	14.4	46.0
7.862000	27.9	Off	L1	20.0	22.1	50.0
27.550000	22.7	Off	L1	21.0	27.3	50.0

Test Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Arthur Hsieh	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + Earphone + Camera (Front) + USB Cable (Charging from Adapter)		


Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	48.8	Off	N	19.6	17.2	66.0
0.190000	38.6	Off	N	19.6	25.4	64.0
0.278000	37.5	Off	N	19.6	23.4	60.9
0.566000	35.8	Off	N	19.6	20.2	56.0
7.246000	33.9	Off	N	20.0	26.1	60.0
26.998000	39.3	Off	N	21.2	20.7	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	26.3	Off	N	19.6	29.7	56.0
0.190000	26.6	Off	N	19.6	27.4	54.0
0.278000	23.9	Off	N	19.6	27.0	50.9
0.566000	24.4	Off	N	19.6	21.6	46.0
7.246000	23.7	Off	N	20.0	26.3	50.0
26.998000	26.3	Off	N	21.2	23.7	50.0

3.6 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

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.

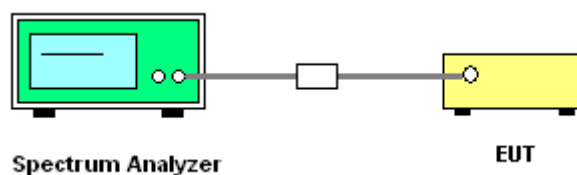
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.

3.7 Automatically Discontinue Transmission

3.7.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



3.8 Antenna Requirements

3.8.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2), if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 Antenna Gain

The antenna gain is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	May 07, 2016	Nov. 07, 2016 ~ Nov. 18, 2016	May 06, 2017	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1207253	30MHz~40GHz	Jan. 12, 2016	Nov. 07, 2016 ~ Nov. 18, 2016	Jan. 11, 2017	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Jan. 12, 2016	Nov. 07, 2016 ~ Nov. 18, 2016	Jan. 11, 2017	Conducted (TH01-SZ)
DC Power Supply	GWINSTEK	AnritsuGPS-3030D	EM882636	Max 30V	May 07, 2016	Nov. 07, 2016 ~ Nov. 18, 2016	May 06, 2017	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 16, 2016	Nov. 07, 2016 ~ Nov. 18, 2016	Jul. 15, 2017	Conducted (TH01-SZ)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 03, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Nov. 03, 2016	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Nov. 03, 2016	Dec. 01, 2016	Conduction (CO05-HY)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	May 07, 2016	Nov. 11, 2016 ~ Nov. 14, 2016	May 06, 2017	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	May 07, 2016	Nov. 11, 2016 ~ Nov. 14, 2016	May 06, 2017	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 07, 2016	Nov. 11, 2016 ~ Nov. 14, 2016	May 06, 2017	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	May 21, 2016	Nov. 11, 2016 ~ Nov. 14, 2016	May 20, 2017	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBEC K	BBHA9120D	9120D-1355	1GHz~18GHz	May 07, 2016	Nov. 11, 2016 ~ Nov. 14, 2016	May 06, 2017	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 16, 2016	Nov. 11, 2016 ~ Nov. 14, 2016	Jul. 15, 2017	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Aug. 10, 2016	Nov. 11, 2016 ~ Nov. 14, 2016	Aug. 09, 2017	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 11, 2016	Nov. 11, 2016 ~ Nov. 14, 2016	Oct. 10, 2017	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 11, 2016	Nov. 11, 2016 ~ Nov. 14, 2016	Oct. 10, 2017	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 12, 2016	Nov. 11, 2016 ~ Nov. 14, 2016	Jan. 11, 2017	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Nov. 11, 2016 ~ Nov. 14, 2016	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 11, 2016 ~ Nov. 14, 2016	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 11, 2016 ~ Nov. 14, 2016	NCR	Radiation (03CH03-SZ)

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.7
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0
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Appendix A. Conducted Test Results

Test Engineer:	Bruce Huang	Temperature:	21~25	°C
Test Date:	2016/11/07~2016/11/18	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I										
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)		
11a	6Mbps	1	36	5180	18.58	23.68	-	22.69		
11a	6Mbps	1	44	5220	18.68	23.43	-	22.71		
11a	6Mbps	1	48	5240	18.73	23.38	-	22.73		
HT20	MCS0	1	36	5180	19.28	23.63	-	22.85		
HT20	MCS0	1	44	5220	19.48	23.63	-	22.90		
HT20	MCS0	1	48	5240	19.28	23.73	-	22.85		
HT40	MCS0	1	38	5190	36.66	43.97	-	23.01		
HT40	MCS0	1	46	5230	36.46	44.24	-	23.01		

TEST RESULTS DATA
Average Power Table

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6Mbps	1	36	5180	0.31	13.43	24.00	-4.14		Pass
11a	6Mbps	1	44	5220	0.31	13.08	24.00	-4.14		Pass
11a	6Mbps	1	48	5240	0.31	13.05	24.00	-4.14		Pass
HT20	MCS0	1	36	5180	0.33	13.28	24.00	-4.14		Pass
HT20	MCS0	1	44	5220	0.33	13.20	24.00	-4.14		Pass
HT20	MCS0	1	48	5240	0.33	13.09	24.00	-4.14		Pass
HT40	MCS0	1	38	5190	0.63	13.26	24.00	-4.14		Pass
HT40	MCS0	1	46	5230	0.63	13.24	24.00	-4.14		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	36	5180	0.31	2.33	11.00	-4.14		Pass
11a	6Mbps	1	44	5220	0.31	1.66	11.00	-4.14		Pass
11a	6Mbps	1	48	5240	0.31	1.85	11.00	-4.14		Pass
HT20	MCS0	1	36	5180	0.33	1.88	11.00	-4.14		Pass
HT20	MCS0	1	44	5220	0.33	1.62	11.00	-4.14		Pass
HT20	MCS0	1	48	5240	0.33	1.64	11.00	-4.14		Pass
HT40	MCS0	1	38	5190	0.63	-0.69	11.00	-4.14		Pass
HT40	MCS0	1	46	5230	0.63	-0.87	11.00	-4.14		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	52	5260	18.63	23.53	23.70	29.70	23.98	
11a	6M bps	1	60	5300	18.43	23.23	23.66	29.66	23.98	
11a	6M bps	1	64	5320	18.63	23.48	23.70	29.70	23.98	
HT20	MCS 0	1	52	5260	19.23	23.73	23.84	29.84	23.98	
HT20	MCS 0	1	60	5300	19.33	23.78	23.86	29.86	23.98	
HT20	MCS 0	1	64	5320	19.23	23.98	23.84	29.84	23.98	
HT40	MCS 0	1	54	5270	36.56	44.42	23.98	30.00	23.98	
HT40	MCS 0	1	62	5310	36.46	44.24	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

FCC Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	52	5260	0.31	13.00	23.98	-3.26	26.99	Pass
11a	6M bps	1	60	5300	0.31	13.39	23.98	-3.26	26.99	Pass
11a	6M bps	1	64	5320	0.31	13.16	23.98	-3.26	26.99	Pass
HT20	MCS 0	1	52	5260	0.33	13.07	23.98	-3.26	26.99	Pass
HT20	MCS 0	1	60	5300	0.33	13.38	23.98	-3.26	26.99	Pass
HT20	MCS 0	1	64	5320	0.33	13.18	23.98	-3.26	26.99	Pass
HT40	MCS 0	1	54	5270	0.63	13.25	23.98	-3.26	26.99	Pass
HT40	MCS 0	1	62	5310	0.63	13.24	23.98	-3.26	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	52	5260	0.31	2.01	11.00	-3.26		Pass
11a	6M bps	1	60	5300	0.31	2.05	11.00	-3.26		Pass
11a	6M bps	1	64	5320	0.31	1.95	11.00	-3.26		Pass
HT20	MCS 0	1	52	5260	0.33	1.67	11.00	-3.26		Pass
HT20	MCS 0	1	60	5300	0.33	2.17	11.00	-3.26		Pass
HT20	MCS 0	1	64	5320	0.33	2.07	11.00	-3.26		Pass
HT40	MCS 0	1	54	5270	0.63	-0.84	11.00	-3.26		Pass
HT40	MCS 0	1	62	5310	0.63	-0.87	11.00	-3.26		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	100	5500	18.68	23.48	23.71	29.71	23.98	
11a	6M bps	1	116	5580	18.58	23.58	23.69	29.69	23.98	
11a	6M bps	1	140	5700	18.88	23.68	23.76	29.76	23.98	
HT20	MCS 0	1	100	5500	19.18	23.83	23.83	29.83	23.98	
HT20	MCS 0	1	116	5580	19.23	23.68	23.84	29.84	23.98	
HT20	MCS 0	1	140	5700	19.23	23.73	23.84	29.84	23.98	
HT40	MCS 0	1	102	5510	36.66	44.33	23.98	30.00	23.98	
HT40	MCS 0	1	110	5550	36.46	44.42	23.98	30.00	23.98	
HT40	MCS 0	1	134	5670	36.66	44.69	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

FCC Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	100	5500	0.31	13.32	23.98	0.10	26.99	Pass
11a	6M bps	1	116	5580	0.31	13.14	23.98	0.10	26.99	Pass
11a	6M bps	1	140	5700	0.31	13.54	23.98	0.10	26.99	Pass
HT20	MCS 0	1	100	5500	0.33	13.33	23.98	0.10	26.99	Pass
HT20	MCS 0	1	116	5580	0.33	13.21	23.98	0.10	26.99	Pass
HT20	MCS 0	1	140	5700	0.33	13.49	23.98	0.10	26.99	Pass
HT40	MCS 0	1	102	5510	0.63	13.47	23.98	0.10	26.99	Pass
HT40	MCS 0	1	110	5550	0.63	13.46	23.98	0.10	26.99	Pass
HT40	MCS 0	1	134	5670	0.63	13.44	23.98	0.10	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	100	5500	0.31	1.94	11.00	0.10		Pass
11a	6M bps	1	116	5580	0.31	2.05	11.00	0.10		Pass
11a	6M bps	1	140	5700	0.31	2.25	11.00	0.10		Pass
HT20	MCS 0	1	100	5500	0.33	1.98	11.00	0.10		Pass
HT20	MCS 0	1	116	5580	0.33	1.82	11.00	0.10		Pass
HT20	MCS 0	1	140	5700	0.33	1.96	11.00	0.10		Pass
HT40	MCS 0	1	102	5510	0.63	-0.76	11.00	0.10		Pass
HT40	MCS 0	1	110	5550	0.63	-0.49	11.00	0.10		Pass
HT40	MCS 0	1	134	5670	0.63	-0.72	11.00	0.10		Pass

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	36	5180	5180.075	0.075	14.48	50	3.8	
11a	6Mbps	1	36	5180	5180.075	0.075	14.48	-30	3.8	
11a	6Mbps	1	36	5180	5180.075	0.075	14.48	20	4.1	
11a	6Mbps	1	36	5180	5180.075	0.075	14.48	20	3.5	
11a	6Mbps	1	36	5180	5180.075	0.075	14.48	20	3.8	

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	50	3.8	
11a	6Mbps	1	64	5320	5320.100	0.100	18.80	-30	3.8	
11a	6Mbps	1	64	5320	5320.075	0.075	14.10	20	4.1	
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	20	3.5	
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	20	3.8	

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5500.100	0.100	18.18	50	3.8	
11a	6Mbps	1	100	5500	5500.100	0.100	18.18	-30	3.8	
11a	6Mbps	1	100	5500	5500.075	0.075	13.64	20	4.1	
11a	6Mbps	1	100	5500	5500.075	0.075	13.64	20	3.5	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	20	3.8	



Appendix B. Radiated Spurious Emission

Test Engineer :	LiangLiang Lu	Temperature :	22~25°C
		Relative Humidity :	48~52%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5127.14	47.73	-26.27	74	41.23	32.93	7.26	33.69	151	120	P	H
		5127.92	37.74	-16.26	54	31.24	32.93	7.26	33.69	151	120	A	H
	*	5180	100.87	-	-	94.21	32.94	7.37	33.65	151	120	P	H
	*	5180	91.77	-	-	85.11	32.94	7.37	33.65	151	120	A	H
													H
													H
		5027.04	49.03	-24.97	74	42.72	32.91	7.15	33.75	150	23	P	V
		5127.92	38.77	-15.23	54	32.27	32.93	7.26	33.69	150	23	A	V
	*	5180	99.79	-	-	93.13	32.94	7.37	33.65	150	23	P	V
	*	5180	91.68	-	-	85.02	32.94	7.37	33.65	150	23	A	V
													V
													V
802.11a CH 44 5220MHz		5092.82	47.95	-26.05	74	41.57	32.92	7.16	33.7	150	121	P	H
		5017.16	36.41	-17.59	54	30.11	32.9	7.15	33.75	150	121	A	H
	*	5220	100.79	-	-	94.12	32.94	7.37	33.64	150	121	P	H
	*	5220	91.74	-	-	85.07	32.94	7.37	33.64	150	121	A	H
		5434.08	47.42	-26.58	74	40.48	32.99	7.43	33.48	150	121	P	H
		5446.08	36.1	-17.9	54	29.12	32.99	7.47	33.48	150	121	A	H
		5038.48	47.03	-26.97	74	40.72	32.91	7.15	33.75	157	25	P	V
		5012.22	36.47	-17.53	54	30.19	32.9	7.15	33.77	157	25	A	V
	*	5220	99.46	-	-	92.79	32.94	7.37	33.64	157	25	P	V
	*	5220	92.08	-	-	85.41	32.94	7.37	33.64	157	25	A	V
		5391.12	47.59	-26.41	74	40.74	32.98	7.39	33.52	157	25	P	V
		5445.6	36.09	-17.91	54	29.15	32.99	7.43	33.48	157	25	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 48 5240MHz		5043.16	48.24	-25.76	74	41.92	32.91	7.15	33.74	150	121	P	H
		5009.1	36.61	-17.39	54	30.33	32.9	7.15	33.77	150	121	A	H
	*	5240	101.98	-	-	95.28	32.95	7.37	33.62	150	121	P	H
	*	5240	92.83	-	-	86.13	32.95	7.37	33.62	150	121	A	H
		5416.8	47.21	-26.79	74	40.3	32.98	7.43	33.5	150	121	P	H
		5450.64	36.35	-17.65	54	29.36	32.99	7.47	33.47	150	121	A	H
		5018.2	47.91	-26.09	74	41.61	32.9	7.15	33.75	156	22	P	V
		5041.6	36.53	-17.47	54	30.22	32.91	7.15	33.75	156	22	A	V
	*	5240	100.34	-	-	93.64	32.95	7.37	33.62	156	22	P	V
	*	5240	91.02	-	-	84.32	32.95	7.37	33.62	156	22	A	V
		5446.08	46.76	-27.24	74	39.78	32.99	7.47	33.48	156	22	P	V
		5458.08	36.27	-17.73	54	29.28	32.99	7.47	33.47	156	22	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	50.57	-23.43	74	59.28	39.71	10.58	59	152	260	P	H
		15540	48.98	-25.02	74	57.66	37.97	13.04	59.69	189	238	P	H
													H
													H
		10360	50.63	-23.37	74	59.34	39.71	10.58	59	152	260	P	V
		15540	48.57	-25.43	74	57.25	37.97	13.04	59.69	189	238	P	V
													V
													V
802.11a CH 44 5220MHz		10440	50.39	-23.61	74	58.98	39.85	10.58	59.02	125	230	P	H
		15660	49.62	-24.38	74	58.34	37.88	13.15	59.75	125	230	P	H
													H
													H
		10440	50.43	-23.57	74	59.02	39.85	10.58	59.02	125	230	P	V
		15660	49.55	-24.45	74	58.27	37.88	13.15	59.75	125	230	P	V
													V
													V
802.11a CH 48 5240MHz		10480	49.92	-24.08	74	58.4	39.96	10.59	59.03	149	289	P	H
		15720	50.22	-23.78	74	58.96	37.82	13.23	59.79	139	291	P	H
													H
													H
		10480	50.34	-23.66	74	58.82	39.96	10.59	59.03	149	289	P	V
		15720	49.53	-24.47	74	58.27	37.82	13.23	59.79	139	291	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5035.62	47.86	-26.14	74	41.55	32.91	7.15	33.75	151	120	P	H
		5127.92	38.31	-15.69	54	31.81	32.93	7.26	33.69	151	120	A	H
	*	5180	99.31	-	-	92.65	32.94	7.37	33.65	151	120	P	H
	*	5180	90.32	-	-	83.66	32.94	7.37	33.65	151	120	A	H
													H
													H
		5128.7	50.67	-23.33	74	44.17	32.93	7.26	33.69	150	22	P	V
		5128.18	39.19	-14.81	54	32.69	32.93	7.26	33.69	150	22	A	V
	*	5180	98.87	-	-	92.21	32.94	7.37	33.65	150	22	P	V
	*	5180	89.56	-	-	82.9	32.94	7.37	33.65	150	22	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5068.64	47.89	-26.11	74	41.55	32.91	7.15	33.72	150	126	P	H
		5039	36.34	-17.66	54	30.03	32.91	7.15	33.75	150	126	A	H
	*	5220	98.94	-	-	92.27	32.94	7.37	33.64	150	126	P	H
	*	5220	89.87	-	-	83.2	32.94	7.37	33.64	150	126	A	H
		5454.48	46.33	-27.67	74	39.34	32.99	7.47	33.47	150	126	P	H
		5454.48	36.05	-17.95	54	29.06	32.99	7.47	33.47	150	126	A	H
		5030.94	47.78	-26.22	74	41.47	32.91	7.15	33.75	152	20	P	V
		5059.8	36.36	-17.64	54	30.04	32.91	7.15	33.74	152	20	A	V
	*	5220	99.38	-	-	92.71	32.94	7.37	33.64	152	20	P	V
	*	5220	90.37	-	-	83.7	32.94	7.37	33.64	152	20	A	V
		5449.44	47.53	-26.47	74	40.55	32.99	7.47	33.48	152	20	P	V
		5456.88	35.9	-18.1	54	28.91	32.99	7.47	33.47	152	20	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 48 5240MHz		5136.24	48.27	-25.73	74	41.77	32.93	7.26	33.69	152	116	P	H
		5027.04	36.37	-17.63	54	30.06	32.91	7.15	33.75	152	116	A	H
	*	5240	99.49	-	-	92.79	32.95	7.37	33.62	152	116	P	H
	*	5240	90.83	-	-	84.13	32.95	7.37	33.62	152	116	A	H
		5445.6	47.72	-26.28	74	40.78	32.99	7.43	33.48	152	116	P	H
		5455.44	36.2	-17.8	54	29.21	32.99	7.47	33.47	152	116	A	H
		5086.32	48.55	-25.45	74	42.19	32.92	7.16	33.72	150	20	P	V
		5092.82	36.36	-17.64	54	29.98	32.92	7.16	33.7	150	20	A	V
	*	5240	99.43	-	-	92.73	32.95	7.37	33.62	150	20	P	V
	*	5240	89.99	-	-	83.29	32.95	7.37	33.62	150	20	A	V
		5451.6	47.24	-26.76	74	40.25	32.99	7.47	33.47	150	20	P	V
		5448.48	35.9	-18.1	54	28.92	32.99	7.47	33.48	150	20	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	50.72	-23.28	74	59.43	39.71	10.58	59	250	0	P	H
		15540	47.21	-26.79	74	55.89	37.97	13.04	59.69	150	0	P	H
													H
													H
		10360	48.55	-25.45	74	57.26	39.71	10.58	59	250	0	P	V
		15540	48.07	-25.93	74	56.75	37.97	13.04	59.69	189	238	P	V
													V
													V
802.11n HT20 CH 44 5220MHz		10440	50.59	-23.41	74	59.18	39.85	10.58	59.02	125	230	P	H
		15660	49.84	-24.16	74	58.56	37.88	13.15	59.75	125	230	P	H
													H
													H
		10440	50.92	-23.08	74	59.51	39.85	10.58	59.02	125	230	P	V
		15660	49.38	-24.62	74	58.1	37.88	13.15	59.75	125	230	P	V
													V
													V
802.11n HT20 CH 48 5240MHz		10480	49.83	-24.17	74	58.31	39.96	10.59	59.03	250	0	P	H
		15720	48.44	-25.56	74	57.18	37.82	13.23	59.79	150	0	P	H
													H
													H
		10480	49.36	-24.64	74	57.84	39.96	10.59	59.03	250	0	P	V
		15720	47.9	-26.1	74	56.64	37.82	13.23	59.79	150	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5031.98	47.68	-26.32	74	41.37	32.91	7.15	33.75	150	120	P	H
		5011.96	37.3	-16.7	54	31.02	32.9	7.15	33.77	150	120	A	H
	*	5190	95.58	-	-	88.92	32.94	7.37	33.65	150	120	P	H
	*	5190	86.78	-	-	80.12	32.94	7.37	33.65	150	120	A	H
		5411.76	47.11	-26.89	74	40.2	32.98	7.43	33.5	150	120	P	H
		5439.6	36.92	-17.08	54	29.98	32.99	7.43	33.48	150	120	A	H
		5134.42	48.52	-25.48	74	42.02	32.93	7.26	33.69	150	70	P	V
		5148.98	37.55	-16.45	54	31.03	32.93	7.26	33.67	150	70	A	V
	*	5190	95.82	-	-	89.16	32.94	7.37	33.65	150	70	P	V
	*	5190	86.68	-	-	80.02	32.94	7.37	33.65	150	70	A	V
		5439.6	47.01	-26.99	74	40.07	32.99	7.43	33.48	150	70	P	V
		5456.16	36.67	-17.33	54	29.68	32.99	7.47	33.47	150	70	A	V
802.11n HT40 CH 46 5230MHz		5115.18	48.63	-25.37	74	42.25	32.92	7.16	33.7	150	116	P	H
		5055.38	37.29	-16.71	54	30.97	32.91	7.15	33.74	150	116	A	H
	*	5230	95.5	-	-	88.8	32.95	7.37	33.62	150	116	P	H
	*	5230	87.44	-	-	80.74	32.95	7.37	33.62	150	116	A	H
		5400.96	46.9	-27.1	74	40.03	32.98	7.39	33.5	150	116	P	H
		5435.04	36.72	-17.28	54	29.78	32.99	7.43	33.48	150	116	A	H
		5106.86	48.82	-25.18	74	42.44	32.92	7.16	33.7	158	72	P	V
		5013.78	37.49	-16.51	54	31.21	32.9	7.15	33.77	158	72	A	V
	*	5230	95.31	-	-	88.61	32.95	7.37	33.62	158	72	P	V
	*	5230	86.74	-	-	80.04	32.95	7.37	33.62	158	72	A	V
		5430.72	46.18	-27.82	74	39.24	32.99	7.43	33.48	158	72	P	V
		5443.2	36.53	-17.47	54	29.59	32.99	7.43	33.48	158	72	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		10380	50.67	-23.33	74	59.36	39.74	10.58	59.01	150	360	P	H
		15570	49.6	-24.4	74	58.29	37.94	13.08	59.71	100	360	P	H
													H
													H
		10380	50.11	-23.89	74	58.8	39.74	10.58	59.01	150	360	P	V
		15570	49.18	-24.82	74	57.87	37.94	13.08	59.71	100	360	P	V
													V
													V
802.11n HT40 CH 46 5230MHz		10460	50.72	-23.28	74	59.27	39.89	10.59	59.03	100	360	P	H
		15690	50.55	-23.45	74	59.28	37.85	13.19	59.77	100	225	P	H
													H
													H
		10460	50.22	-23.78	74	58.77	39.89	10.59	59.03	100	360	P	V
		15690	50.01	-23.99	74	58.74	37.85	13.19	59.77	100	225	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5059.02	47.4	-26.6	74	41.08	32.91	7.15	33.74	181	120	P	H
		5057.46	36.35	-17.65	54	30.03	32.91	7.15	33.74	181	120	A	H
	*	5260	100.85	-	-	94.12	32.95	7.38	33.6	181	120	P	H
	*	5260	92.29	-	-	85.56	32.95	7.38	33.6	181	120	A	H
		5456.88	47.23	-26.77	74	40.24	32.99	7.47	33.47	181	120	P	H
		5458.32	36.31	-17.69	54	29.32	32.99	7.47	33.47	181	120	A	H
		5129.48	48.03	-25.97	74	41.53	32.93	7.26	33.69	208	43	P	V
		5029.9	36.4	-17.6	54	30.09	32.91	7.15	33.75	208	43	A	V
	*	5260	99.73	-	-	93	32.95	7.38	33.6	208	43	P	V
	*	5260	92.23	-	-	85.5	32.95	7.38	33.6	208	43	A	V
		5436	47.03	-26.97	74	40.09	32.99	7.43	33.48	208	43	P	V
		5455.68	36	-18	54	29.01	32.99	7.47	33.47	208	43	A	V
802.11a CH 60 5300MHz		5026.78	47.92	-26.08	74	41.61	32.91	7.15	33.75	150	120	P	H
		5016.64	36.53	-17.47	54	30.23	32.9	7.15	33.75	150	120	A	H
	*	5300	101.98	-	-	95.21	32.96	7.38	33.57	150	120	P	H
	*	5300	93.51	-	-	86.74	32.96	7.38	33.57	150	120	A	H
		5352.96	49.26	-24.74	74	42.43	32.97	7.39	33.53	150	120	P	H
		5352.72	39.88	-14.12	54	33.05	32.97	7.39	33.53	150	120	A	H
		5118.82	48.13	-25.87	74	41.74	32.92	7.16	33.69	153	26	P	V
		5000	36.42	-17.58	54	30.15	32.9	7.14	33.77	153	26	A	V
	*	5300	100.18	-	-	93.41	32.96	7.38	33.57	153	26	P	V
	*	5300	92.23	-	-	85.46	32.96	7.38	33.57	153	26	A	V
		5352.48	48.14	-25.86	74	41.31	32.97	7.39	33.53	153	26	P	V
		5352.48	39.34	-14.66	54	32.51	32.97	7.39	33.53	153	26	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 64 5320MHz	*	5320	101.91	-	-	95.14	32.96	7.38	33.57	150	114	P	H
	*	5320	93.52	-	-	86.75	32.96	7.38	33.57	150	114	A	H
		5372.96	49.36	-24.64	74	42.53	32.97	7.39	33.53	150	114	P	H
		5372.64	41.41	-12.59	54	34.58	32.97	7.39	33.53	150	114	A	H
													H
													H
	*	5320	100.71	-	-	93.94	32.96	7.38	33.57	152	24	P	V
	*	5320	92.51	-	-	85.74	32.96	7.38	33.57	152	24	A	V
		5374.88	48.86	-25.14	74	42.02	32.97	7.39	33.52	152	24	P	V
		5372.16	39.41	-14.59	54	32.58	32.97	7.39	33.53	152	24	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	50.86	-23.14	74	59.34	39.99	10.59	59.06	110	220	P	H
		15780	50.75	-23.25	74	59.52	37.78	13.27	59.82	109	345	P	H
													H
													H
		10520	51.09	-22.91	74	59.57	39.99	10.59	59.06	110	220	P	V
		15780	49.73	-24.27	74	58.5	37.78	13.27	59.82	109	345	P	V
													V
													V
802.11a CH 60 5300MHz		10600	50.41	-23.59	74	58.95	39.96	10.65	59.15	185	215	P	H
		15900	49.27	-24.73	74	58.09	37.68	13.38	59.88	196	190	P	H
													H
													H
		10600	49.83	-24.17	74	58.37	39.96	10.65	59.15	185	215	P	V
		15900	49.47	-24.53	74	58.29	37.68	13.38	59.88	196	190	P	V
													V
													V
802.11a CH 64 5320MHz		10640	48.83	-25.17	74	57.39	39.94	10.68	59.18	250	0	P	H
		15960	48.88	-25.12	74	57.71	37.63	13.46	59.92	150	0	P	H
													H
													H
		10640	48.62	-25.38	74	57.18	39.94	10.68	59.18	250	0	P	V
		15960	48.21	-25.79	74	57.04	37.63	13.46	59.92	150	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		5145.86	48.13	-25.87	74	41.61	32.93	7.26	33.67	152	120	P	H
		5045.5	36.44	-17.56	54	30.12	32.91	7.15	33.74	152	120	A	H
	*	5260	100.28	-	-	93.55	32.95	7.38	33.6	152	120	P	H
	*	5260	91.16	-	-	84.43	32.95	7.38	33.6	152	120	A	H
		5454.96	48.33	-25.67	74	41.34	32.99	7.47	33.47	152	120	P	H
		5445.36	36.14	-17.86	54	29.2	32.99	7.43	33.48	152	120	A	H
		5034.06	47.76	-26.24	74	41.45	32.91	7.15	33.75	153	20	P	V
		5031.98	36.36	-17.64	54	30.05	32.91	7.15	33.75	153	20	A	V
	*	5260	100.45	-	-	93.72	32.95	7.38	33.6	153	20	P	V
	*	5260	91.33	-	-	84.6	32.95	7.38	33.6	153	20	A	V
		5447.76	47.3	-26.7	74	40.32	32.99	7.47	33.48	153	20	P	V
		5449.2	36.07	-17.93	54	29.09	32.99	7.47	33.48	153	20	A	V
802.11n HT20 CH 60 5300MHz		5045.24	47.71	-26.29	74	41.39	32.91	7.15	33.74	150	120	P	H
		5072.8	36.66	-17.34	54	30.31	32.92	7.15	33.72	150	120	A	H
	*	5300	101.9	-	-	95.13	32.96	7.38	33.57	150	120	P	H
	*	5300	91.85	-	-	85.08	32.96	7.38	33.57	150	120	A	H
		5352	49.41	-24.59	74	42.58	32.97	7.39	33.53	150	120	P	H
		5351.52	41.2	-12.8	54	34.37	32.97	7.39	33.53	150	120	A	H
		5063.44	48.25	-25.75	74	41.93	32.91	7.15	33.74	150	20	P	V
		5028.86	36.32	-17.68	54	30.01	32.91	7.15	33.75	150	20	A	V
	*	5300	100.21	-	-	93.44	32.96	7.38	33.57	150	20	P	V
	*	5300	90.82	-	-	84.05	32.96	7.38	33.57	150	20	A	V
		5351.52	50.09	-23.91	74	43.26	32.97	7.39	33.53	150	20	P	V
		5351.76	39.73	-14.27	54	32.9	32.97	7.39	33.53	150	20	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 64 5320MHz	*	5320	101.33	-	-	94.56	32.96	7.38	33.57	151	119	P	H
	*	5320	91.84	-	-	85.07	32.96	7.38	33.57	151	119	A	H
		5371.84	51.67	-22.33	74	44.84	32.97	7.39	33.53	151	119	P	H
		5372.16	40.77	-13.23	54	33.94	32.97	7.39	33.53	151	119	A	H
													H
													H
	*	5320	100.43	-	-	93.66	32.96	7.38	33.57	150	21	P	V
	*	5320	91.01	-	-	84.24	32.96	7.38	33.57	150	21	A	V
		5371.52	49.1	-24.9	74	42.27	32.97	7.39	33.53	150	21	P	V
		5371.84	40.01	-13.99	54	33.18	32.97	7.39	33.53	150	21	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10520	49.89	-24.11	74	58.37	39.99	10.59	59.06	250	0	P	H
		15780	49.19	-24.81	74	57.96	37.78	13.27	59.82	150	0	P	H
													H
													H
		10520	50.41	-23.59	74	58.89	39.99	10.59	59.06	250	0	P	V
		15780	48.53	-25.47	74	57.3	37.78	13.27	59.82	150	0	P	V
													V
													V
802.11n HT20 CH 60 5300MHz		10600	50.21	-23.79	74	58.75	39.96	10.65	59.15	250	0	P	H
		15900	48.37	-25.63	74	57.19	37.68	13.38	59.88	150	0	P	H
													H
													H
		10600	50.31	-23.69	74	58.85	39.96	10.65	59.15	250	0	P	V
		15900	48.63	-25.37	74	57.45	37.68	13.38	59.88	150	0	P	V
													V
													V
802.11n HT20 CH 64 5320MHz		10640	50.13	-23.87	74	58.69	39.94	10.68	59.18	250	0	P	H
		15960	48.58	-25.42	74	57.41	37.63	13.46	59.92	150	0	P	H
													H
													H
		10640	49.55	-24.45	74	58.11	39.94	10.68	59.18	250	0	P	V
		15960	49.29	-24.71	74	58.12	37.63	13.46	59.92	150	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5128.96	47.84	-26.16	74	41.34	32.93	7.26	33.69	150	116	P	H
		5009.36	37.11	-16.89	54	30.83	32.9	7.15	33.77	150	116	A	H
	*	5270	96.63	-	-	89.9	32.95	7.38	33.6	150	116	P	H
	*	5270	87.75	-	-	81.02	32.95	7.38	33.6	150	116	A	H
		5374.08	47.35	-26.65	74	40.51	32.97	7.39	33.52	150	116	P	H
		5373.36	38	-16	54	31.16	32.97	7.39	33.52	150	116	A	H
		5043.42	47.92	-26.08	74	41.6	32.91	7.15	33.74	150	70	P	V
		5015.6	37.22	-16.78	54	30.94	32.9	7.15	33.77	150	70	A	V
	*	5270	95.84	-	-	89.11	32.95	7.38	33.6	150	70	P	V
	*	5270	87.32	-	-	80.59	32.95	7.38	33.6	150	70	A	V
		5434.8	47.31	-26.69	74	40.37	32.99	7.43	33.48	150	70	P	V
		5373.36	37.14	-16.86	54	30.3	32.97	7.39	33.52	150	70	A	V
802.11n HT40 CH 62 5310MHz		5008.58	49.15	-24.85	74	42.87	32.9	7.15	33.77	150	116	P	H
		5016.38	37.31	-16.69	54	31.01	32.9	7.15	33.75	150	116	A	H
	*	5310	98	-	-	91.23	32.96	7.38	33.57	150	116	P	H
	*	5310	88.84	-	-	82.07	32.96	7.38	33.57	150	116	A	H
		5412.48	48.77	-25.23	74	41.86	32.98	7.43	33.5	150	116	P	H
		5350.56	39.23	-14.77	54	32.4	32.97	7.39	33.53	150	116	A	H
		5122.2	47.89	-26.11	74	41.5	32.92	7.16	33.69	157	72	P	V
		5020.02	37.13	-16.87	54	30.83	32.9	7.15	33.75	157	72	A	V
	*	5310	97	-	-	90.23	32.96	7.38	33.57	157	72	P	V
	*	5310	88.37	-	-	81.6	32.96	7.38	33.57	157	72	A	V
		5353.44	53.92	-20.08	74	47.09	32.97	7.39	33.53	157	72	P	V
		5350.32	37.9	-16.1	54	31.07	32.97	7.39	33.53	157	72	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10540	50.31	-23.69	74	58.78	39.99	10.62	59.08	110	220	P	H
		15810	50.03	-23.97	74	58.81	37.75	13.31	59.84	109	345	P	H
													H
													H
		10540	50.66	-23.34	74	59.13	39.99	10.62	59.08	110	220	P	V
		15810	50.02	-23.98	74	58.8	37.75	13.31	59.84	109	345	P	V
													V
													V
802.11n HT40 CH 62 5310MHz		10620	50.43	-23.57	74	58.97	39.95	10.68	59.17	100	220	P	H
		15930	49.68	-24.32	74	58.5	37.66	13.42	59.9	100	100	P	H
													H
													H
		10620	50.84	-23.16	74	59.38	39.95	10.68	59.17	100	220	P	V
		15930	49.54	-24.46	74	58.36	37.66	13.42	59.9	100	100	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5447.76	51.62	-22.38	74	44.64	32.99	7.47	33.48	151	119	P	H
		5447.6	41.55	-12.45	54	34.57	32.99	7.47	33.48	151	119	A	H
	*	5500	103.16	-	-	96.1	33	7.51	33.45	151	119	P	H
	*	5500	94.91	-	-	87.85	33	7.51	33.45	151	119	A	H
													H
													H
		5448.08	49.65	-24.35	74	42.67	32.99	7.47	33.48	189	26	P	V
		5447.44	40.41	-13.59	54	33.43	32.99	7.47	33.48	189	26	A	V
	*	5500	101.71	-	-	94.65	33	7.51	33.45	189	26	P	V
	*	5500	93.53	-	-	86.47	33	7.51	33.45	189	26	A	V
													V
													V
802.11a CH 116 5580MHz		5428.48	47.85	-26.15	74	40.92	32.98	7.43	33.48	151	119	P	H
		5452	36.24	-17.76	54	29.25	32.99	7.47	33.47	151	119	A	H
	*	5580	104.31	-	-	97.07	33.08	7.64	33.48	151	119	P	H
	*	5580	96.22	-	-	88.98	33.08	7.64	33.48	151	119	A	H
		5726.675	46.92	-27.08	74	39.43	33.27	7.74	33.52	151	119	P	H
		5739.1	36.42	-17.58	54	28.92	33.29	7.74	33.53	151	119	A	H
		5416	46.62	-27.38	74	39.71	32.98	7.43	33.5	171	25	P	V
		5460.88	36.03	-17.97	54	29.04	32.99	7.47	33.47	171	25	A	V
	*	5580	101.18	-	-	93.94	33.08	7.64	33.48	171	25	P	V
	*	5580	93.44	-	-	86.2	33.08	7.64	33.48	171	25	A	V
		5750.825	47.05	-26.95	74	39.55	33.29	7.74	33.53	171	25	P	V
		5732.275	36.28	-17.72	54	28.8	33.27	7.74	33.53	171	25	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 140 5700MHz	*	5700	103.69	-	-	96.29	33.23	7.68	33.51	161	117	P	H
	*	5700	94.99	-	-	87.59	33.23	7.68	33.51	161	117	A	H
		5752.6	49.46	-24.54	74	41.94	33.31	7.74	33.53	161	117	P	H
		5752.28	40.89	-13.11	54	33.37	33.31	7.74	33.53	161	117	A	H
													H
													H
	*	5700	100.6	-	-	93.2	33.23	7.68	33.51	175	44	P	V
	*	5700	92.43	-	-	85.03	33.23	7.68	33.51	175	44	A	V
		5751.32	48.58	-25.42	74	41.08	33.29	7.74	33.53	175	44	P	V
		5752.44	39.04	-14.96	54	31.52	33.31	7.74	33.53	175	44	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	49.69	-24.31	74	58.49	39.8	10.96	59.56	163	230	P	H
		16500	48.8	-25.2	74	56.16	38.5	13.81	59.67	178	296	P	H
													H
													H
		11000	49.59	-24.41	74	58.39	39.8	10.96	59.56	163	230	P	V
		16500	48.57	-25.43	74	55.93	38.5	13.81	59.67	178	296	P	V
													V
													V
802.11a CH 116 5580MHz		11160	49.07	-24.93	74	57.93	39.77	11	59.63	170	200	P	H
		16740	49.4	-24.6	74	55.44	38.98	14.4	59.42	156	350	P	H
													H
													H
		11160	49.01	-24.99	74	57.87	39.77	11	59.63	170	200	P	V
		16740	49.61	-24.39	74	55.65	38.98	14.4	59.42	156	350	P	V
													V
													V
802.11a CH 140 5700MHz		11400	48.2	-25.8	74	57.13	39.72	11.07	59.72	250	0	P	H
		17100	50.83	-23.17	74	54.85	39.74	15.01	58.77	150	0	P	H
													H
													H
		11400	47.54	-26.46	74	56.47	39.72	11.07	59.72	250	0	P	V
		17100	49.91	-24.09	74	53.93	39.74	15.01	58.77	150	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		5447.92	52.33	-21.67	74	45.35	32.99	7.47	33.48	153	111	P	H
		5448.4	43.05	-10.95	54	36.07	32.99	7.47	33.48	153	111	A	H
	*	5500	103.5	-	-	96.44	33	7.51	33.45	153	111	P	H
	*	5500	95.07	-	-	88.01	33	7.51	33.45	153	111	A	H
													H
													H
		5448.08	50.7	-23.3	74	43.72	32.99	7.47	33.48	150	41	P	V
		5448.4	40.81	-13.19	54	33.83	32.99	7.47	33.48	150	41	A	V
	*	5500	101.43	-	-	94.37	33	7.51	33.45	150	41	P	V
	*	5500	92.89	-	-	85.83	33	7.51	33.45	150	41	A	V
													V
													V
802.11n HT20 CH 116 5580MHz		5464.48	47.9	-26.1	74	40.91	32.99	7.47	33.47	150	113	P	H
		5445.52	36.13	-17.87	54	29.19	32.99	7.43	33.48	150	113	A	H
	*	5580	104.03	-	-	96.79	33.08	7.64	33.48	150	113	P	H
	*	5580	95.41	-	-	88.17	33.08	7.64	33.48	150	113	A	H
		5727.025	47.04	-26.96	74	39.55	33.27	7.74	33.52	150	113	P	H
		5746.1	36.21	-17.79	54	28.71	33.29	7.74	33.53	150	113	A	H
		5443.36	47.11	-26.89	74	40.17	32.99	7.43	33.48	159	22	P	V
		5463.52	36.22	-17.78	54	29.23	32.99	7.47	33.47	159	22	A	V
	*	5580	102.36	-	-	95.12	33.08	7.64	33.48	159	22	P	V
	*	5580	93.5	-	-	86.26	33.08	7.64	33.48	159	22	A	V
		5751.175	47.02	-26.98	74	39.52	33.29	7.74	33.53	159	22	P	V
		5750.825	36.24	-17.76	54	28.74	33.29	7.74	33.53	159	22	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 140 5700MHz	*	5700	103.39	-	-	95.99	33.23	7.68	33.51	150	111	P	H
	*	5700	95.26	-	-	87.86	33.23	7.68	33.51	150	111	A	H
		5752.36	50.99	-23.01	74	43.47	33.31	7.74	33.53	150	111	P	H
		5751.72	42.16	-11.84	54	34.64	33.31	7.74	33.53	150	111	A	H
													H
													H
	*	5700	100.7	-	-	93.3	33.23	7.68	33.51	150	24	P	V
	*	5700	92.76	-	-	85.36	33.23	7.68	33.51	150	24	A	V
		5727	49.7	-24.3	74	42.21	33.27	7.74	33.52	150	24	P	V
		5751.88	40.31	-13.69	54	32.79	33.31	7.74	33.53	150	24	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11100	47.71	-26.29	74	56.54	39.78	10.99	59.6	250	0	P	H
		16500	47.62	-26.38	74	54.98	38.5	13.81	59.67	150	0	P	H
													H
													H
		11100	48.66	-25.34	74	57.49	39.78	10.99	59.6	250	0	P	V
		16500	48.3	-25.7	74	55.66	38.5	13.81	59.67	150	0	P	V
													V
													V
802.11n HT20 CH 116 5580MHz		11160	49.02	-24.98	74	57.88	39.77	11	59.63	250	0	P	H
		16740	48.85	-25.15	74	54.89	38.98	14.4	59.42	150	0	P	H
													H
													H
		11160	48.29	-25.71	74	57.15	39.77	11	59.63	250	0	P	V
		16740	48.31	-25.69	74	54.35	38.98	14.4	59.42	150	0	P	V
													V
													V
802.11n HT20 CH 140 5700MHz		11400	49.4	-24.6	74	58.33	39.72	11.07	59.72	250	0	P	H
		17100	49.84	-24.16	74	53.86	39.74	15.01	58.77	150	0	P	H
													H
													H
		11400	48.09	-25.91	74	57.02	39.72	11.07	59.72	250	0	P	V
		17100	50.4	-23.6	74	54.42	39.74	15.01	58.77	150	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5465.68	49.19	-24.81	74	42.2	32.99	7.47	33.47	150	116	P	H
		5468.8	39.63	-14.37	54	32.64	32.99	7.47	33.47	150	116	A	H
	*	5510	100.65	-	-	93.6	33	7.51	33.46	150	116	P	H
	*	5510	92.25	-	-	85.2	33	7.51	33.46	150	116	A	H
		5737	47.24	-26.76	74	39.74	33.29	7.74	33.53	150	116	P	H
		5744	36.75	-17.25	54	29.25	33.29	7.74	33.53	150	116	A	H
		5455.36	47.53	-26.47	74	40.54	32.99	7.47	33.47	161	42	P	V
		5469.52	38.19	-15.81	54	31.2	32.99	7.47	33.47	161	42	A	V
	*	5510	97.17	-	-	90.12	33	7.51	33.46	161	42	P	V
	*	5510	89.19	-	-	82.14	33	7.51	33.46	161	42	A	V
		5764.475	46.59	-27.41	74	39.07	33.31	7.74	33.53	161	42	P	V
		5742.425	36.68	-17.32	54	29.18	33.29	7.74	33.53	161	42	A	V
802.11n HT40 CH 110 5550MHz		5449.12	48.04	-25.96	74	41.06	32.99	7.47	33.48	150	118	P	H
		5447.68	38.73	-15.27	54	31.75	32.99	7.47	33.48	150	118	A	H
	*	5550	100.85	-	-	93.69	33.06	7.57	33.47	150	118	P	H
	*	5550	92.64	-	-	85.48	33.06	7.57	33.47	150	118	A	H
		5755.025	46.54	-27.46	74	39.02	33.31	7.74	33.53	150	118	P	H
		5731.925	36.79	-17.21	54	29.31	33.27	7.74	33.53	150	118	A	H
		5446	48.46	-25.54	74	41.48	32.99	7.47	33.48	166	42	P	V
		5446.72	38.22	-15.78	54	31.24	32.99	7.47	33.48	166	42	A	V
	*	5550	98.19	-	-	91.03	33.06	7.57	33.47	166	42	P	V
	*	5550	89.67	-	-	82.51	33.06	7.57	33.47	166	42	A	V
		5743.825	49.01	-24.99	74	41.51	33.29	7.74	33.53	166	42	P	V
		5746.625	36.87	-17.13	54	29.37	33.29	7.74	33.53	166	42	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 134 5670MHz		5468.56	46.45	-27.55	74	39.46	32.99	7.47	33.47	150	114	P	H
		5461.6	36.67	-17.33	54	29.68	32.99	7.47	33.47	150	114	A	H
	*	5670	100.07	-	-	92.69	33.21	7.67	33.5	150	114	P	H
	*	5670	91.4	-	-	84.02	33.21	7.67	33.5	150	114	A	H
		5728.6	47.52	-26.48	74	40.03	33.27	7.74	33.52	150	114	P	H
		5726.15	37.15	-16.85	54	29.66	33.27	7.74	33.52	150	114	A	H
		5452.24	46.55	-27.45	74	39.56	32.99	7.47	33.47	163	42	P	V
		5465.68	36.6	-17.4	54	29.61	32.99	7.47	33.47	163	42	A	V
	*	5670	98.5	-	-	91.12	33.21	7.67	33.5	163	42	P	V
	*	5670	89.94	-	-	82.56	33.21	7.67	33.5	163	42	A	V
		5738.75	46.95	-27.05	74	39.45	33.29	7.74	33.53	163	42	P	V
		5731.05	37.42	-16.58	54	29.94	33.27	7.74	33.53	163	42	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		11020	48.93	-25.07	74	57.73	39.8	10.97	59.57	100	230	P	H
		16530	49.95	-24.05	74	57.1	38.57	13.91	59.63	100	300	P	H
													H
													H
		11020	49.2	-24.8	74	58	39.8	10.97	59.57	100	230	P	V
		16530	50.77	-23.23	74	57.92	38.57	13.91	59.63	100	300	P	V
													V
													V
802.11n HT40 CH 110 5550MHz		11100	49.39	-24.61	74	58.22	39.78	10.99	59.6	100	200	P	H
		16650	50.63	-23.37	74	57.13	38.81	14.2	59.51	100	350	P	H
													H
													H
		11100	49.19	-24.81	74	58.02	39.78	10.99	59.6	100	200	P	V
		16650	50.4	-23.6	74	56.9	38.81	14.2	59.51	100	350	P	V
													V
													V
802.11n HT40 CH 134 5670MHz		11340	48.71	-25.29	74	57.61	39.73	11.06	59.69	200	360	P	H
		17010	50.15	-23.85	74	54.63	39.54	15.08	59.1	200	360	P	H
													H
													H
		11340	48.23	-25.77	74	57.13	39.73	11.06	59.69	200	360	P	V
		17010	50.7	-23.3	74	55.18	39.54	15.08	59.1	200	360	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11n HT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 LF		30.97	26.66	-13.34	40	31.54	26.28	0.62	31.78	-	-	P	H
		99.84	36.07	-7.43	43.5	47.86	18.8	0.99	31.58	100	0	P	H
		168.71	32.36	-11.14	43.5	45.58	16.98	1.15	31.35	-	-	P	H
		204.6	32.4	-11.1	43.5	46.54	15.83	1.28	31.25	-	-	P	H
		345.25	31.65	-14.35	46	40.96	20.27	1.71	31.29	-	-	P	H
		969.93	34.09	-19.91	54	32.37	29.8	3.19	31.27	-	-	P	H
													H
													H
													H
													H
													H
													H
		43.58	35.01	-4.99	40	45.87	20.26	0.62	31.74	100	0	P	V
		94.99	37.33	-6.17	43.5	49.64	18.3	0.99	31.6	-	-	P	V
		168.71	33.73	-9.77	43.5	46.95	16.98	1.15	31.35	-	-	P	V
		204.6	35.29	-8.21	43.5	49.43	15.83	1.28	31.25	-	-	P	V
		401.51	28.79	-17.21	46	32.25	25.96	1.82	31.24	-	-	P	V
		933.07	33.17	-12.83	46	32.46	29.1	2.88	31.27	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical

A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



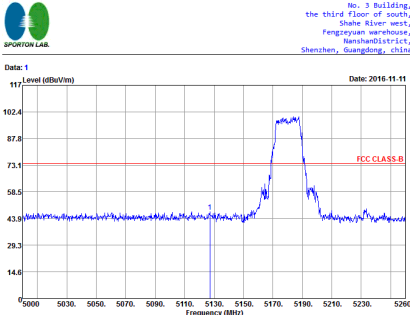
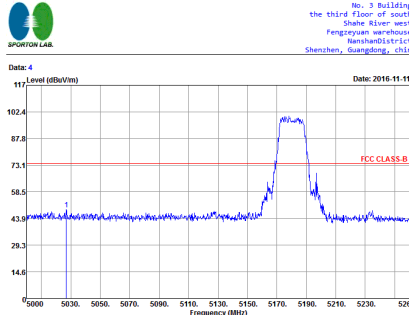
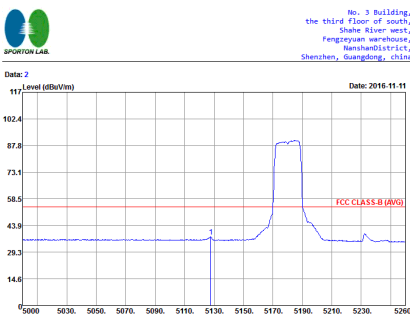
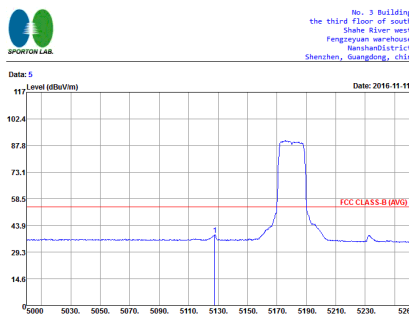
Appendix C. Radiated Spurious Emission

Test Engineer :	LiangLiang Lu	Temperature :	22~25°C
		Relative Humidity :	48~52%

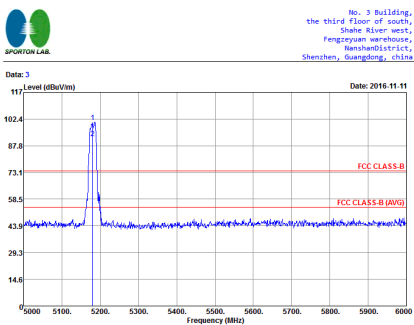
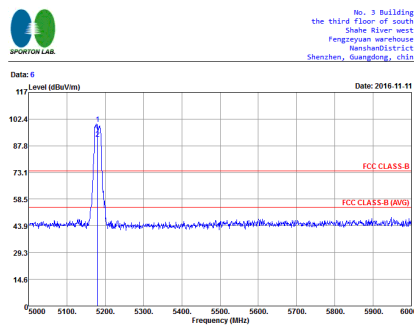
Note symbol

-L	Low channel location
-R	High channel location

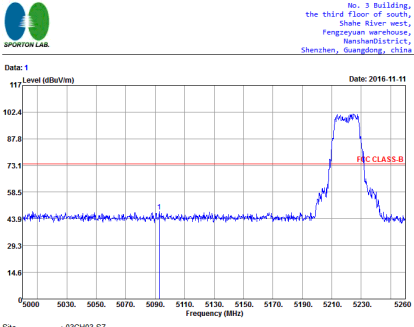
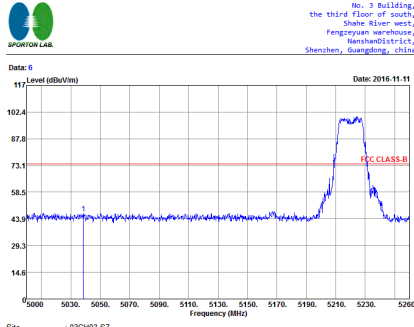
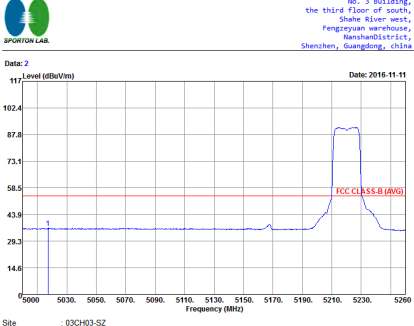
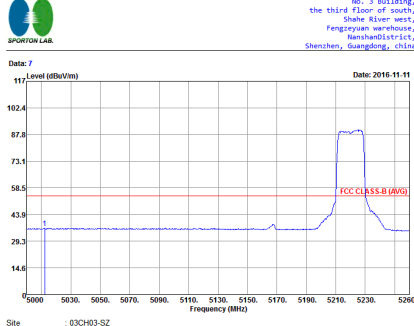
Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 1 IMEI : 004401115972989 Plane : X (Full) 3D (R) GM power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 1 IMEI : 004401115972989 Plane : X (Full) 3D (R) GM power setting 13
Avg.	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF_ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 1 IMEI : 004401115972989 Plane : X (Full) 3D (R) GM power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF_ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 1 IMEI : 004401115972989 Plane : X (Full) 3D (R) GM power setting 13

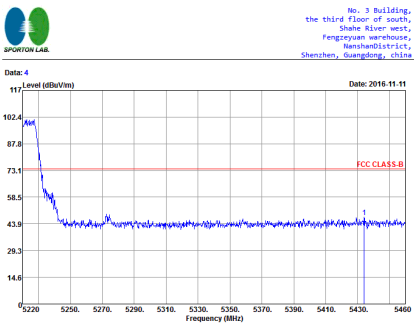
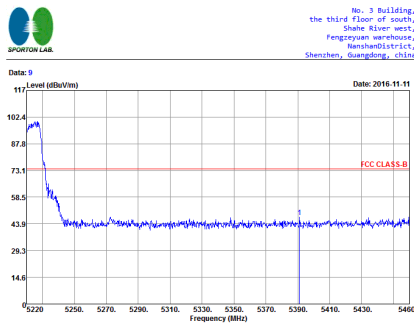
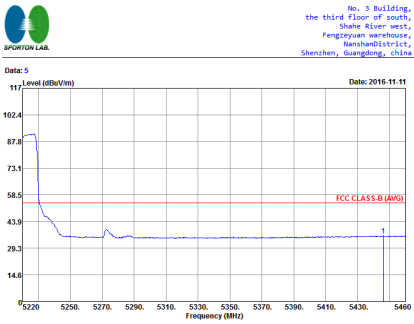
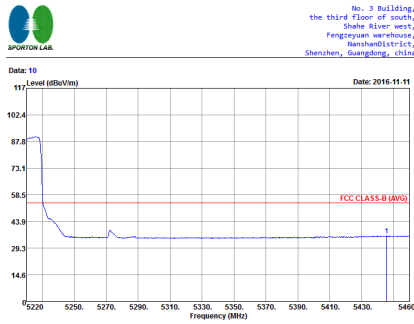


WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 3 Date: 2016-11-11 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : FR 682304 Mode : Mode 1 IMEI : 004401115972989 Plane : X (Full) 35 dB GM power setting 13  No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 6 Date: 2016-11-11 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 VERTICAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : FR 682304 Mode : Mode 1 IMEI : 004401115972989 Plane : X (Full) 35 dB GM power setting 13	



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT 160507 HORIZONTAL Detector : REW:1000.000kHz VBW:3000.000kHz Project : Peak Mode : (FR) 682304 MEI : 004401115972989 Plane : X (Full) 30 (0) GM power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT 160507 VERTICAL Detector : REW:1000.000kHz VBW:3000.000kHz Project : Peak Mode : (FR) 682304 MEI : 004401115972989 Plane : X (Full) 30 (0) GM power setting 13
Avg.	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF ANT 160507 HORIZONTAL Detector : REW:1000.000kHz VBW:1.000kHz Project : Peak Mode : (FR) 682304 MEI : 004401115972989 Plane : X (Full) 30 (0) GM power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF ANT 160507 VERTICAL Detector : REW:1000.000kHz VBW:1.000kHz Project : Peak Mode : (FR) 682304 MEI : 004401115972989 Plane : X (Full) 30 (0) GM power setting 13

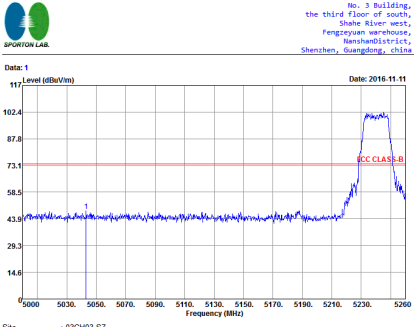
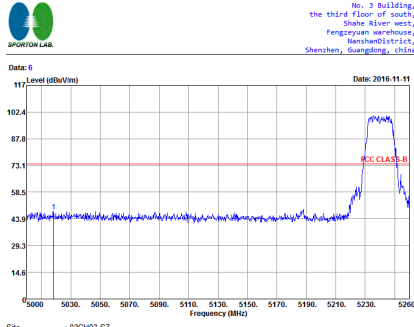
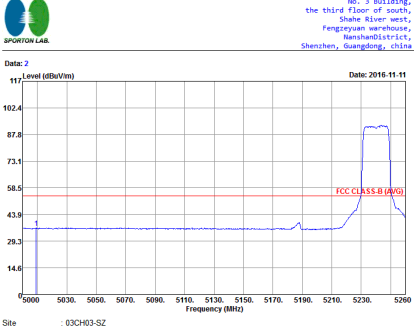
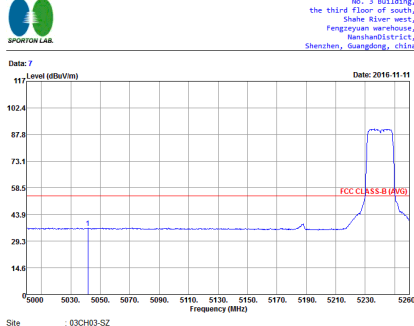


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Vertical
Peak	The plot shows the peak signal level in dBuV/m across a frequency range from 5220 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The signal level starts at approximately 102.4 dBuV/m at 5220 MHz and drops to around 43.8 dBuV/m by 5250 MHz, remaining below the limit for the rest of the band. Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT 160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 2 IMEI : 00440115972989 Plane : X (Full) 30 (R) GM power setting 13	The plot shows the peak signal level in dBuV/m across a frequency range from 5220 to 5460 MHz. A red line indicates the FCC CLASS-B limit at 73.1 dBuV/m. The signal level starts at approximately 102.4 dBuV/m at 5220 MHz and drops to around 43.8 dBuV/m by 5250 MHz, remaining below the limit for the rest of the band. Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT 160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 2 IMEI : 00440115972989 Plane : X (Full) 30 (R) GM power setting 13
Avg.	The plot shows the average signal level in dBuV/m across a frequency range from 5220 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 73.1 dBuV/m. The signal level starts at approximately 102.4 dBuV/m at 5220 MHz and drops to around 43.8 dBuV/m by 5250 MHz, remaining below the limit for the rest of the band. Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF ANT 160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 2 IMEI : 00440115972989 Plane : X (Full) 30 (R) GM power setting 13	The plot shows the average signal level in dBuV/m across a frequency range from 5220 to 5460 MHz. A red line indicates the FCC CLASS-B (AVG) limit at 73.1 dBuV/m. The signal level starts at approximately 102.4 dBuV/m at 5220 MHz and drops to around 43.8 dBuV/m by 5250 MHz, remaining below the limit for the rest of the band. Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF ANT 160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 2 IMEI : 00440115972989 Plane : X (Full) 30 (R) GM power setting 13

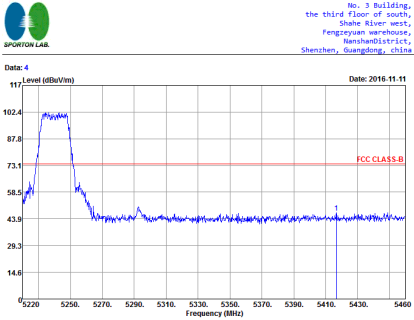
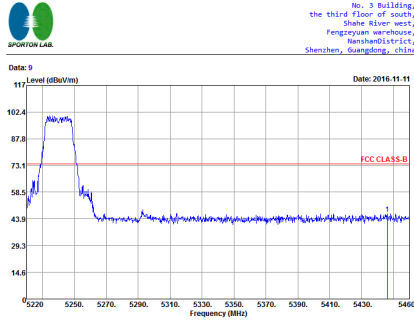
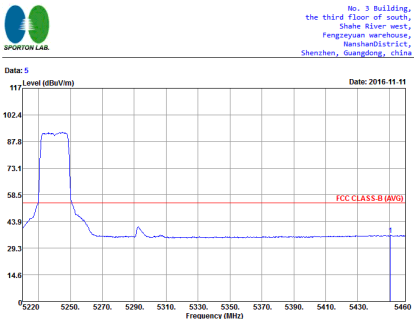
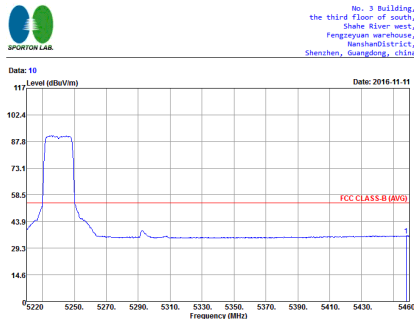


WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 3 Date: 2016-11-11 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : FR 682304 Mode : Mode 2 IMEI : 004401115972989 Plane : X (Full) 35 dB GM power setting 13	No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 8 Date: 2016-11-11 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 VERTICAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : FR 682304 Mode : Mode 2 IMEI : 004401115972989 Plane : X (Full) 35 dB GM power setting 13



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 HORIZONTAL Detector : REW:1000.000kHz VBW:3000.000kHz Project : Peak Mode : (FR) 682304 MEI : 004401115972989 Plane : X (Full) 30 (0) GM power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 VERTICAL Detector : REW:1000.000kHz VBW:3000.000kHz Project : Peak Mode : (FR) 682304 MEI : 004401115972989 Plane : X (Full) 30 (0) GM power setting 13
Avg.	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF ANT_160507 HORIZONTAL Detector : REW:1000.000kHz VBW:1.000kHz Project : Peak Mode : (FR) 682304 MEI : 004401115972989 Plane : X (Full) 30 (0) GM power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF ANT_160507 VERTICAL Detector : REW:1000.000kHz VBW:1.000kHz Project : Peak Mode : (FR) 682304 MEI : 004401115972989 Plane : X (Full) 30 (0) GM power setting 13



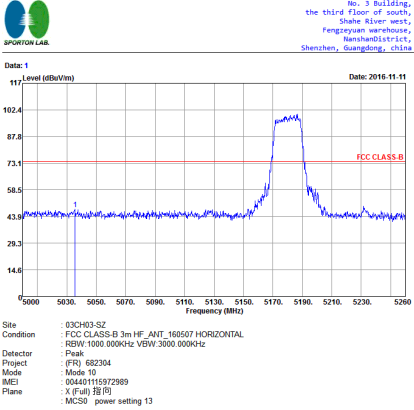
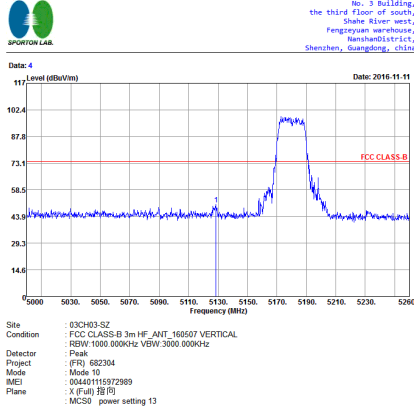
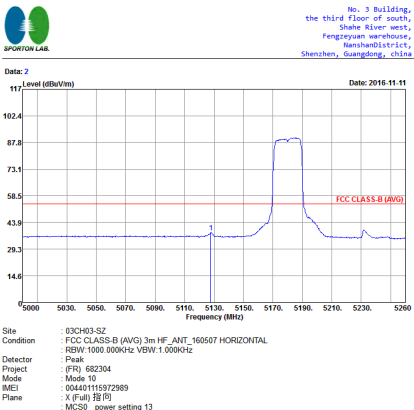
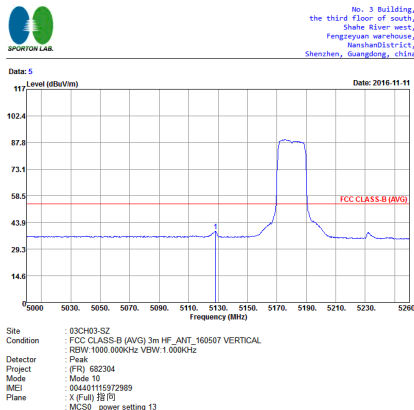
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 3 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 3 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13
Avg.	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 3 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 3 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13



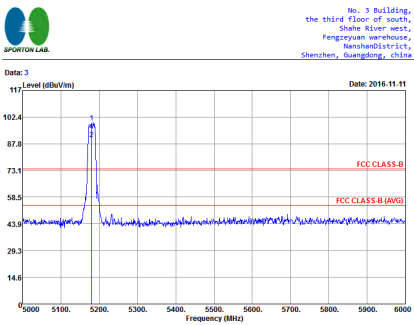
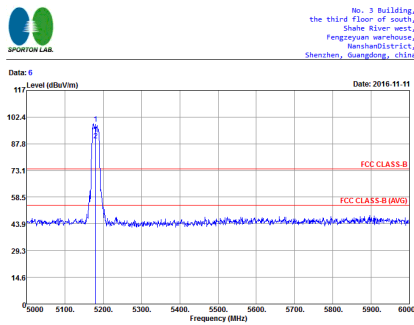
WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 3 Date: 2016-11-11 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : FR 682304 Mode : Mode 3 IMEI : 004401115972989 Plane : X (Full) 35 dB GM power setting 13	No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 8 Date: 2016-11-11 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 VERTICAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : FR 682304 Mode : Mode 3 IMEI : 004401115972989 Plane : X (Full) 35 dB GM power setting 13



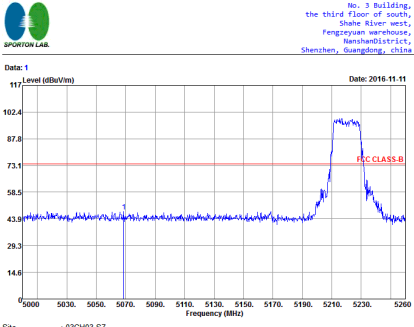
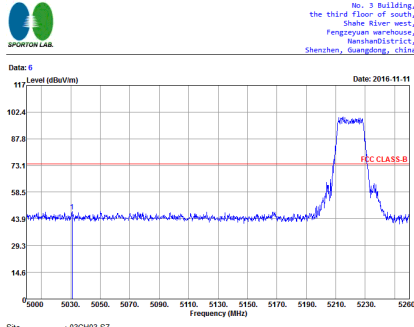
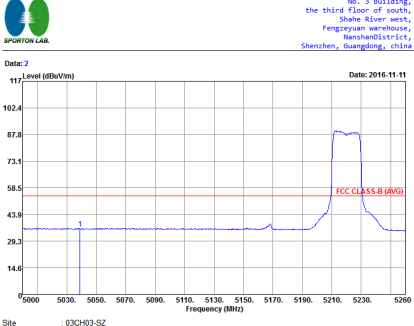
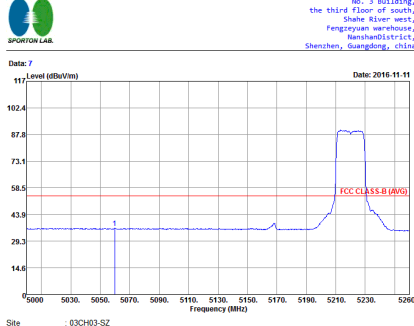
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 10 MEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 10 MEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13
Avg.	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF_ANT_160507 HORIZONTAL RBW: 1000.000kHz VBW: 1.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 10 MEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF_ANT_160507 VERTICAL RBW: 1000.000kHz VBW: 1.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 10 MEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13

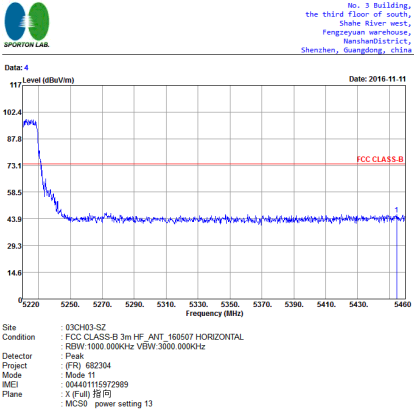
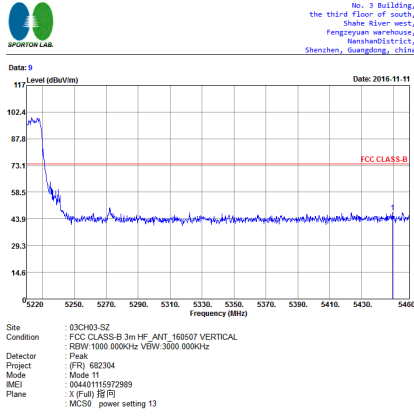
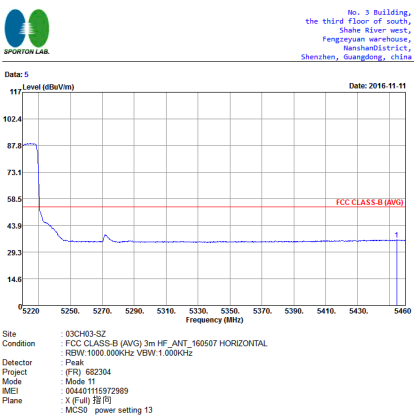
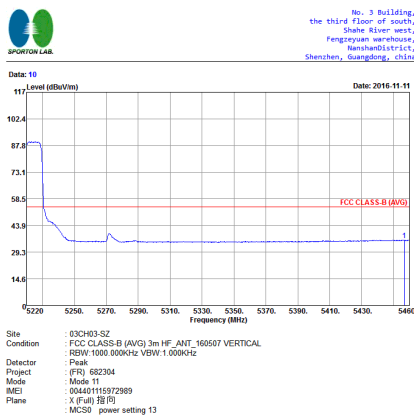


WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 3 Date: 2016-11-11 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : FR 682304 Mode : Mode 10 IMEI : 004401115972989 Plane : X (Full) 35 (R) MCS0 power setting 13	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 6 Date: 2016-11-11 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 VERTICAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : FR 682304 Mode : Mode 10 IMEI : 004401115972989 Plane : X (Full) 35 (R) MCS0 power setting 13

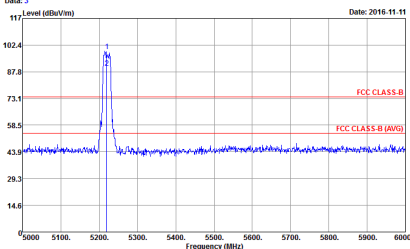
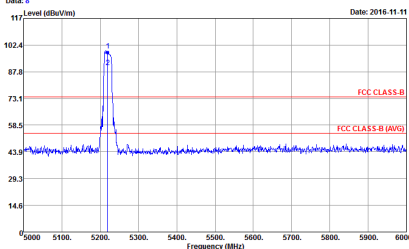


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Vertical
Peak	 No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 1 Date: 2016-11-11 Level (dBuV/m) Frequency (MHz) FCC CLASS-B Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 HORIZONTAL REW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 11 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	 No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 6 Date: 2016-11-11 Level (dBuV/m) Frequency (MHz) FCC CLASS-B Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 VERTICAL REW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 11 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13
Avg.	 No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 2 Date: 2016-11-11 Level (dBuV/m) Frequency (MHz) FCC CLASS-B (AVG) Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT_160507 HORIZONTAL REW:1000.000kHz VBW:1.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 11 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	 No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 7 Date: 2016-11-11 Level (dBuV/m) Frequency (MHz) FCC CLASS-B (AVG) Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT_160507 VERTICAL REW:1000.000kHz VBW:1.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 11 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13

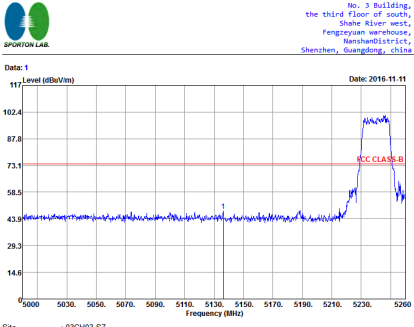
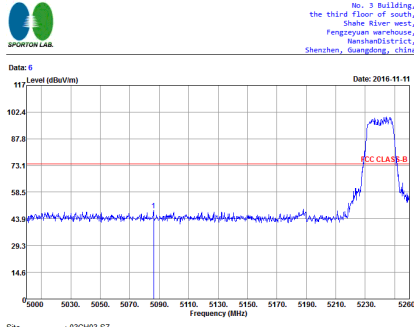
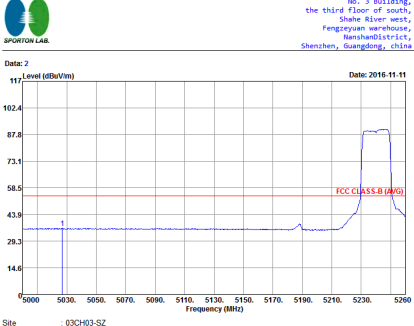
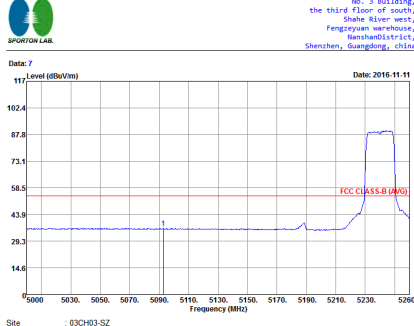


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Vertical
Peak	 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT 160507 HORIZONTAL REBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 11 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT 160507 VERTICAL REBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 11 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13
Avg.	 Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT 160507 HORIZONTAL REBW:1000.000kHz VBW:1.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 11 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	 Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT 160507 VERTICAL REBW:1000.000kHz VBW:1.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 11 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13

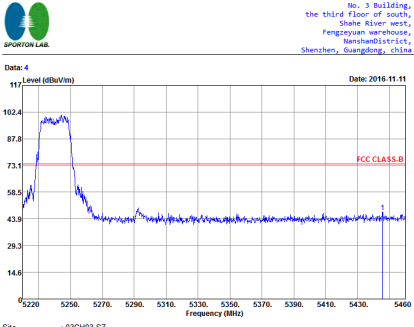
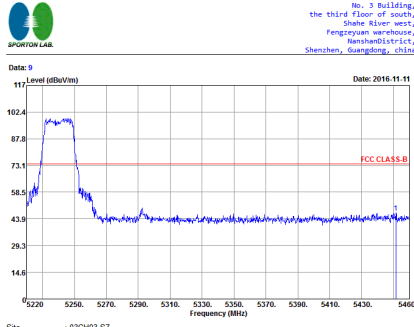
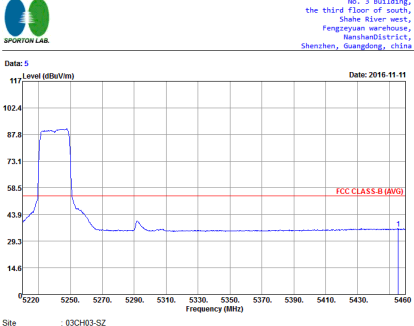
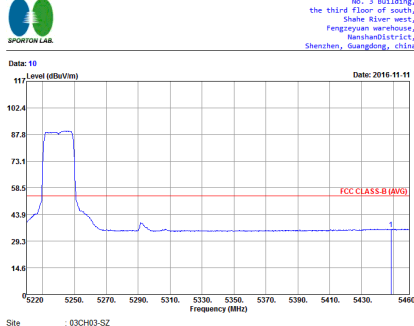


WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 3 Date: 2016-11-11  Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 HORIZONTAL Detector : RBW-1000.000kHz VBW-3000.000kHz Project : Peak Mode : (FR) 682304 IMEI : 004401115972989 Plane : X (Full) 35 (R) Plane : MCS0 power setting 13	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 8 Date: 2016-11-11  Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 VERTICAL Detector : RBW-1000.000kHz VBW-3000.000kHz Project : Peak Mode : (FR) 682304 IMEI : 004401115972989 Plane : X (Full) 35 (R) Plane : MCS0 power setting 13

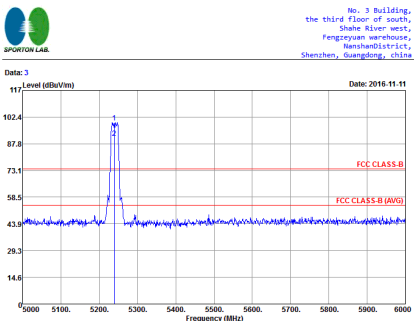
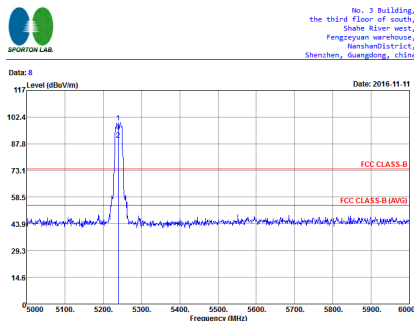


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Vertical
Peak	 No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 2016-11-11 Level (dBuV/m) Frequency (MHz) FCC CLASS-B Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT 160507 HORIZONTAL REW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 12 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	 No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 2016-11-11 Level (dBuV/m) Frequency (MHz) FCC CLASS-B Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT 160507 VERTICAL REW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 12 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13
Avg.	 No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 2016-11-11 Level (dBuV/m) Frequency (MHz) FCC CLASS-B (AVG) Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT 160507 HORIZONTAL REW:1000.000kHz VBW:1.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 12 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	 No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 2016-11-11 Level (dBuV/m) Frequency (MHz) FCC CLASS-B (AVG) Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT 160507 VERTICAL REW:1000.000kHz VBW:1.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 12 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13



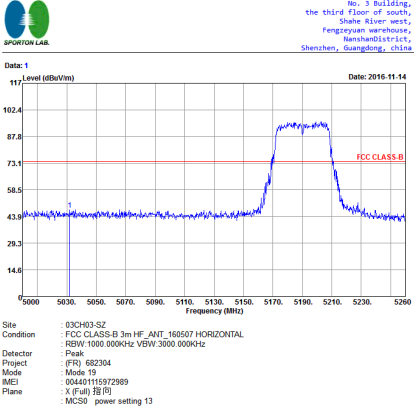
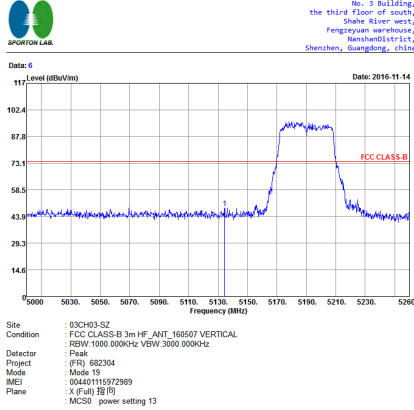
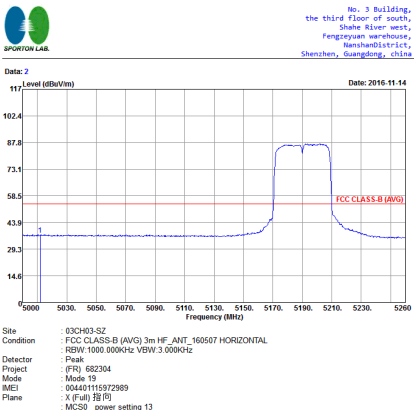
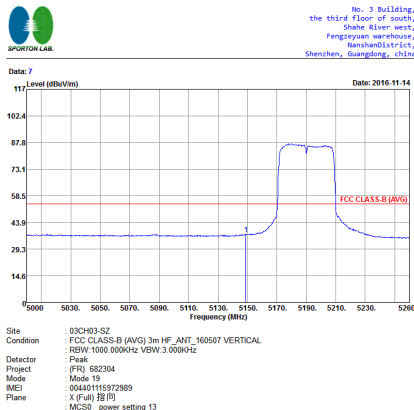
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Vertical
Peak	 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT 160507 HORIZONTAL REBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 12 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT 160507 VERTICAL REBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 12 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13
Avg.	 Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT 160507 HORIZONTAL REBW:1000.000kHz VBW:1.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 12 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	 Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT 160507 VERTICAL REBW:1000.000kHz VBW:1.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 12 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13



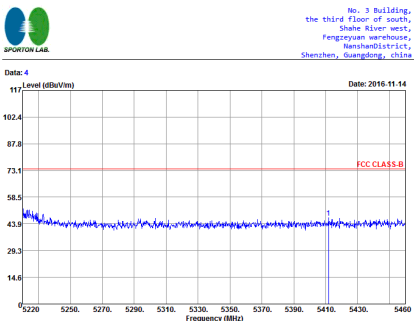
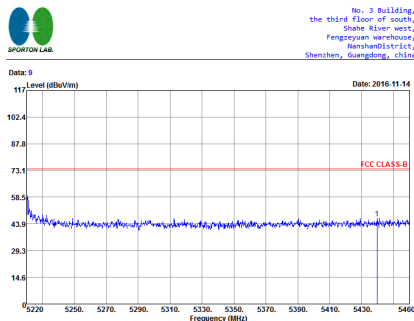
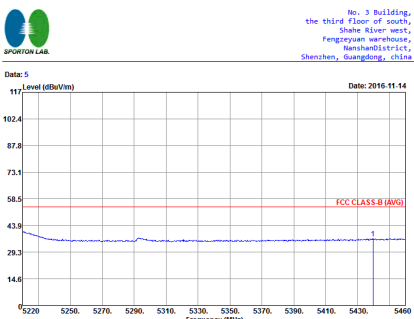
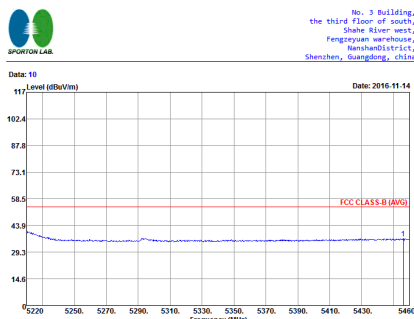
WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 3 Date: 2016-11-11 Site Condition : 03CH03-SZ : FCC CLASS-B 3m HF ANT_160507 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 12 IMEI : 004401115972989 Plane : X (Full) 35 (R) : MCS0 power setting 13	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 8 Date: 2016-11-11 Site Condition : 03CH03-SZ : FCC CLASS-B 3m HF ANT_160507 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 12 IMEI : 004401115972989 Plane : X (Full) 35 (R) : MCS0 power setting 13



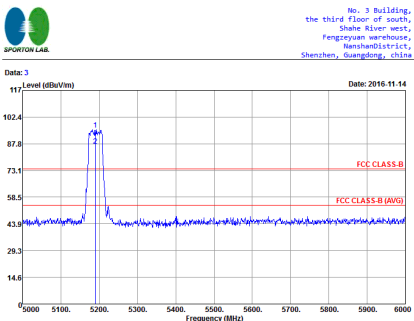
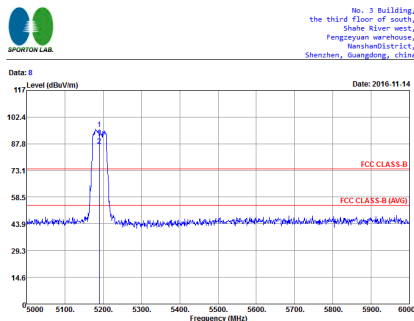
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 19 MEI : 00440115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 19 MEI : 00440115972989 Plane : X (Full) 30 (R) MCS0 power setting 13
Avg.	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF_ANT_160507 HORIZONTAL RBW: 1000.000kHz VBW: 3.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 19 MEI : 00440115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF_ANT_160507 VERTICAL RBW: 1000.000kHz VBW: 3.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 19 MEI : 00440115972989 Plane : X (Full) 30 (R) MCS0 power setting 13

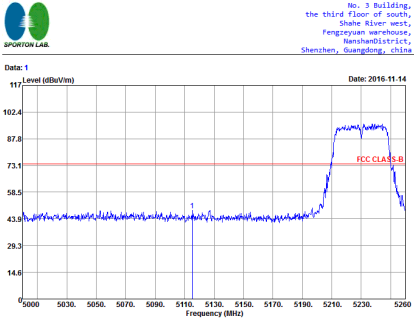
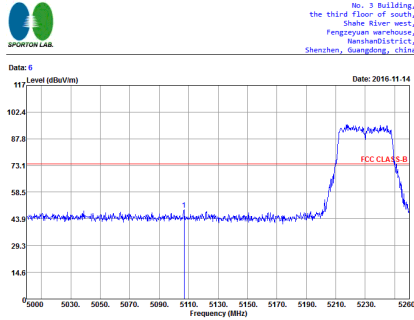
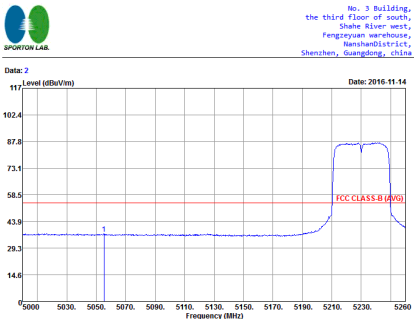
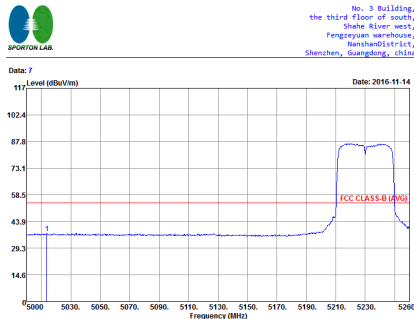


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Vertical
Peak	No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 4 Level (dBuV/m) Date: 2016-11-14 117 102.4 87.8 73.1 58.5 43.9 29.3 14.6 5220 5250 5270 5290 5310 5330 5350 5370 5390 5410 5430 5460 Frequency (MHz) Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 HORIZONTAL REW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 19 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 9 Level (dBuV/m) Date: 2016-11-14 117 102.4 87.8 73.1 58.5 43.9 29.3 14.6 5220 5250 5270 5290 5310 5330 5350 5370 5390 5410 5430 5460 Frequency (MHz) Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 VERTICAL REW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 19 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13
Avg.	No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 5 Level (dBuV/m) Date: 2016-11-14 117 102.4 87.8 73.1 58.5 43.9 29.3 14.6 5220 5250 5270 5290 5310 5330 5350 5370 5390 5410 5430 5460 Frequency (MHz) Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT_160507 HORIZONTAL REW:1000.000kHz VBW:3.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 19 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 10 Level (dBuV/m) Date: 2016-11-14 117 102.4 87.8 73.1 58.5 43.9 29.3 14.6 5220 5250 5270 5290 5310 5330 5350 5370 5390 5410 5430 5460 Frequency (MHz) Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT_160507 VERTICAL REW:1000.000kHz VBW:3.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 19 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13

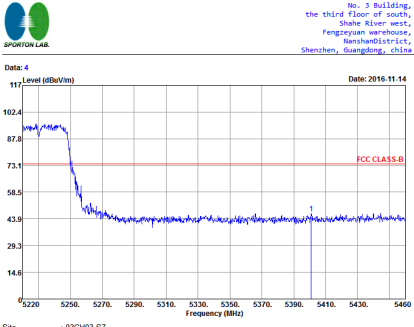
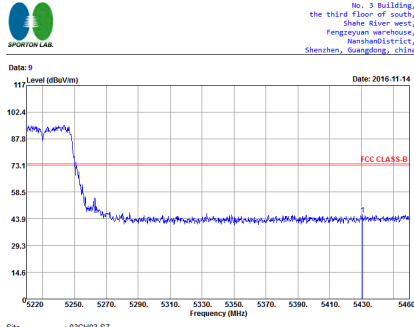
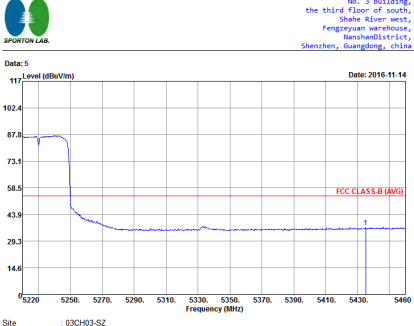
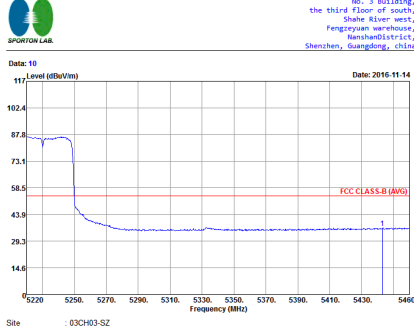


WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 3 Date: 2016-11-14 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 19 IMEI : 004401115972989 Plane : X (Full) 38 (R) MCS0 power setting 13	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 8 Date: 2016-11-14 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 VERTICAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 19 IMEI : 004401115972989 Plane : X (Full) 38 (R) MCS0 power setting 13

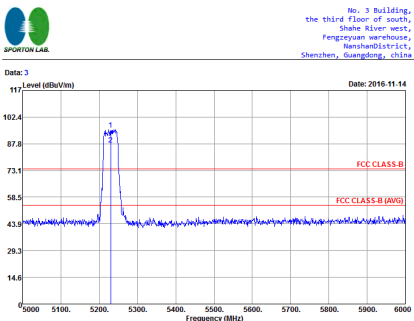
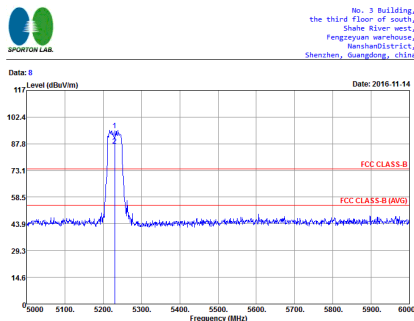


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Vertical
Peak	 No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 2016-11-14 Level (dBuV/m) Frequency (MHz) FCC CLASS-B Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT 160507 HORIZONTAL REW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 20 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	 No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 2016-11-14 Level (dBuV/m) Frequency (MHz) FCC CLASS-B Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT 160507 VERTICAL REW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 20 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13
Avg.	 No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 2016-11-14 Level (dBuV/m) Frequency (MHz) FCC CLASS-B (AVG) Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT 160507 HORIZONTAL REW:1000.000kHz VBW:3.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 20 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13	 No. 3 Building, the third floor of south, Shahe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 2016-11-14 Level (dBuV/m) Frequency (MHz) FCC CLASS-B (AVG) Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT 160507 VERTICAL REW:1000.000kHz VBW:3.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 20 IMEI : 004401115972989 Plane : X (Full) 30 (R) MCS0 power setting 13



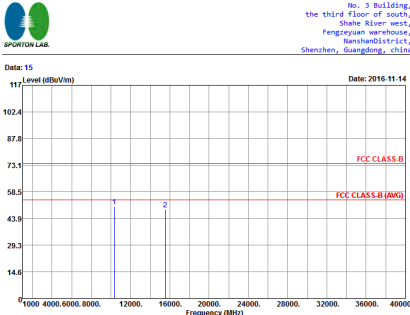
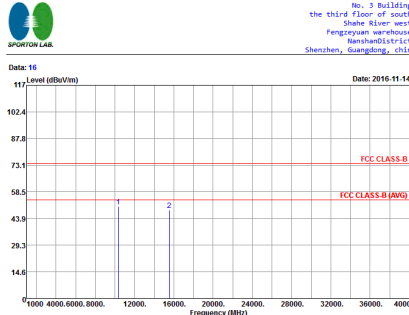
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 HORIZONTAL Detector : Peak Project : FR 682304 Mode : Mode 20 IMEI : 00440115972989 Plane : X (Full) 指R MCS0 power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 VERTICAL Detector : Peak Project : FR 682304 Mode : Mode 20 IMEI : 00440115972989 Plane : X (Full) 指R MCS0 power setting 13
Avg.	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF ANT_160507 HORIZONTAL Detector : Peak Project : FR 682304 Mode : Mode 20 IMEI : 00440115972989 Plane : X (Full) 指R MCS0 power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF ANT_160507 VERTICAL Detector : Peak Project : FR 682304 Mode : Mode 20 IMEI : 00440115972989 Plane : X (Full) 指R MCS0 power setting 13



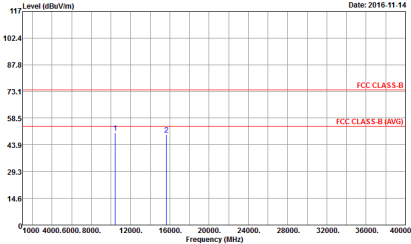
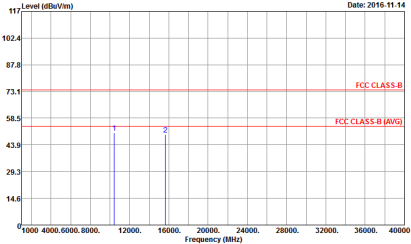
WIFI	Band 1 5150~5250MHz Fundamental @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 HORIZONTAL Detector : RBW-1000.000kHz VBW-3000.000kHz Project : Peak Mode : (FR) 682304 IMEI : Mode 20 Plane : 004401115972989 Plane : X (Full) 35 (R) Plane : MCS0 power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 VERTICAL Detector : RBW-1000.000kHz VBW-3000.000kHz Project : Peak Mode : (FR) 682304 IMEI : Mode 20 Plane : 004401115972989 Plane : X (Full) 35 (R) Plane : MCS0 power setting 13



Band 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.	 No. 3 Building, the third floor of south, Shake Silver west, Fengzeysen warehouse, NanshanDistrict, Shenzhen, Guangdong, china Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 1 IMEI : 004401115972989 Plane : X (Full) 指 (R) GM power setting 13	 No. 3 Building, the third floor of south, Shake Silver west, Fengzeysen warehouse, NanshanDistrict, Shenzhen, Guangdong, china Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 1 IMEI : 004401115972989 Plane : X (Full) 指 (R) GM power setting 13



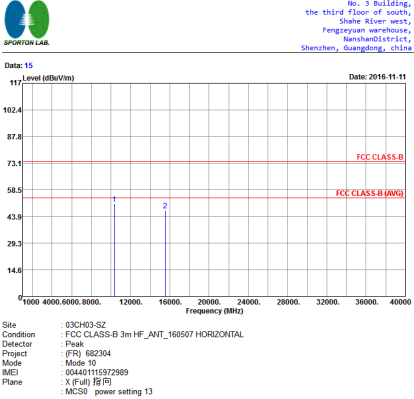
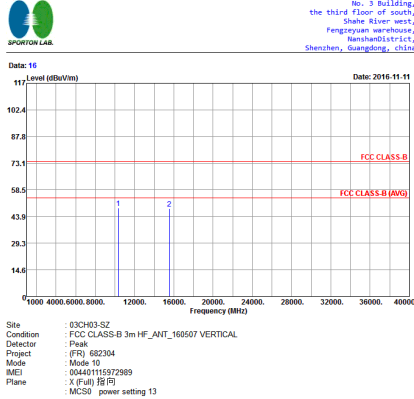
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 19 Date: 2016-11-14  Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 2 IMEI : 004401115972989 Plane : X (Full) 300° GM power setting 13	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 20 Date: 2016-11-14  Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 2 IMEI : 004401115972989 Plane : X (Full) 300° GM power setting 13



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 3 IMEI : 004401115972989 Plane : X (Full) 環向 GM power setting 13	Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 3 IMEI : 004401115972989 Plane : X (Full) 環向 GM power setting 13



Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		



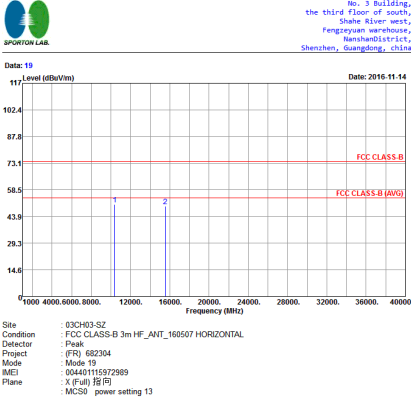
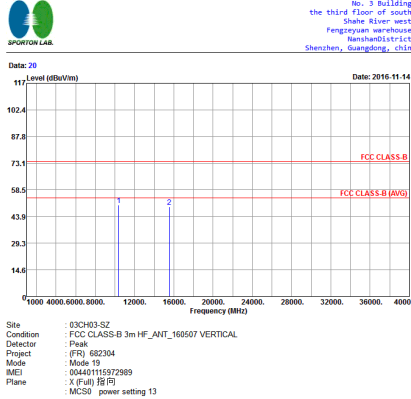
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 11 IMEI : 004401115972989 Plane : X (Full) 指 (R) MCS9 power setting 13	Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 11 IMEI : 004401115972989 Plane : X (Full) 指 (R) MCS9 power setting 13



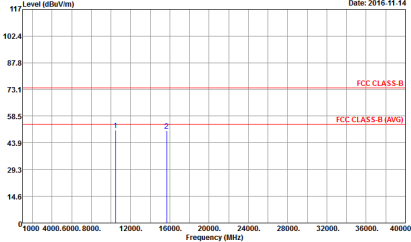
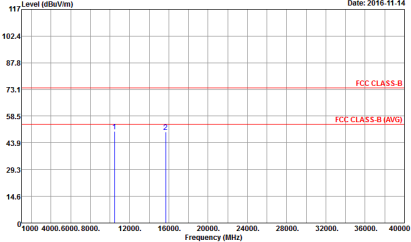
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 19 Date: 2016-11-11 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 12 IMEI : 00441115972989 Plane : X (Full) 指 (R) MCS9 power setting 13	No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 20 Date: 2016-11-11 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 12 IMEI : 00441115972989 Plane : X (Full) 指 (R) MCS9 power setting 13



Band 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

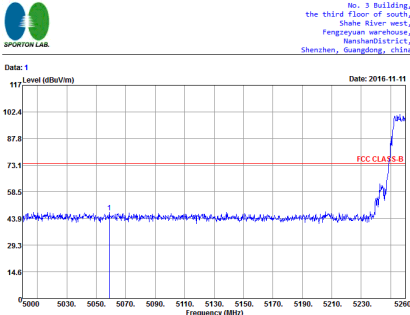
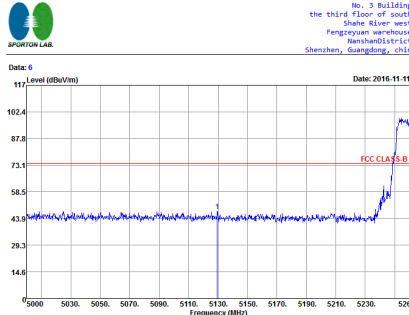
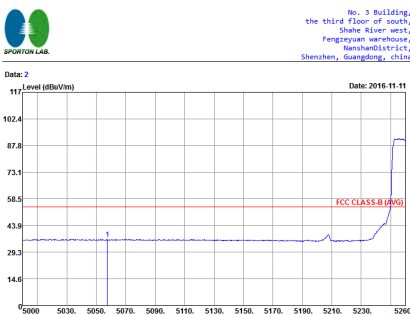
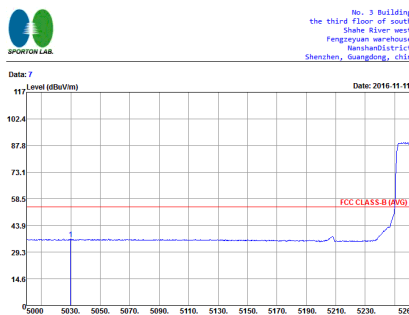
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.	 No. 3 Building, the third floor of south, Shahe River west, Fengqiyuan warehouse, NanshanDistrict, Shenzhen, Guangdong, china Date: 19 Level (dBuV/m) Date: 2016-11-14 117 102.4 87.8 73.1 58.5 43.9 29.3 14.6 0 1000 4000 6000 8000 12000 16000 20000 24000 28000 32000 36000 40000 Frequency (MHz) Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 HORIZONTAL Detector : Peak Project : FRJ 682304 Mode : 19 MEI : 004401115972969 Plane : X (Full) IS (P) MCS0 power setting 13	 No. 3 Building, the third floor of south, Shahe River west, Fengqiyuan warehouse, NanshanDistrict, Shenzhen, Guangdong, china Date: 20 Level (dBuV/m) Date: 2016-11-14 117 102.4 87.8 73.1 58.5 43.9 29.3 14.6 0 1000 4000 6000 8000 12000 16000 20000 24000 28000 32000 36000 40000 Frequency (MHz) Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 VERTICAL Detector : Peak Project : FRJ 682304 Mode : 19 MEI : 004401115972969 Plane : X (Full) IS (P) MCS0 power setting 13



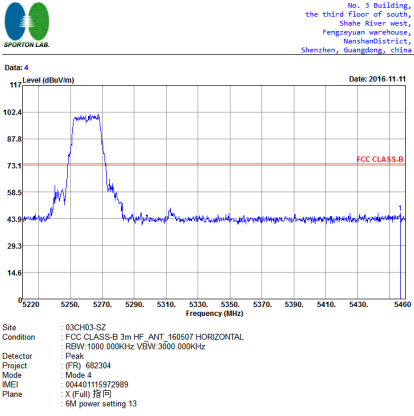
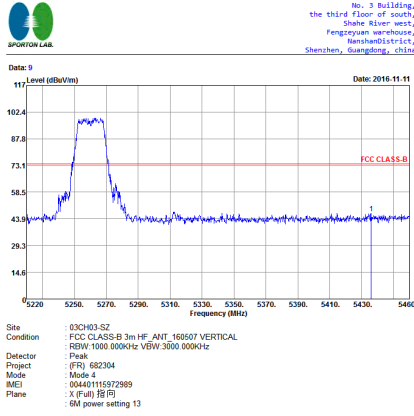
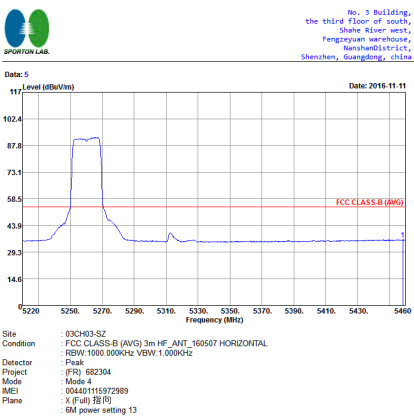
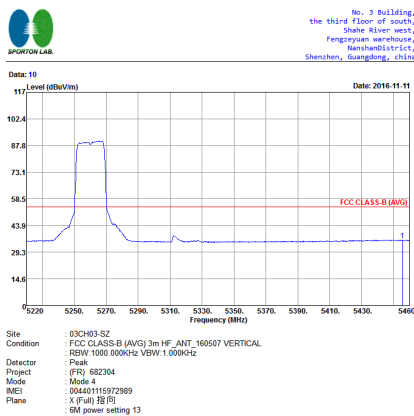
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 19 Level (dBuV/m) Date: 2016-11-14  Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 20 IMEI : 004401115972989 Plane : X (Full) 指 (R) MCS9 power setting 13	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 20 Level (dBuV/m) Date: 2016-11-14  Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 20 IMEI : 004401115972989 Plane : X (Full) 指 (R) MCS9 power setting 13



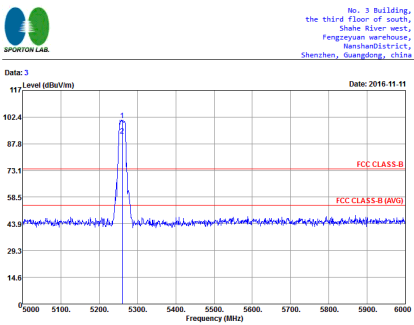
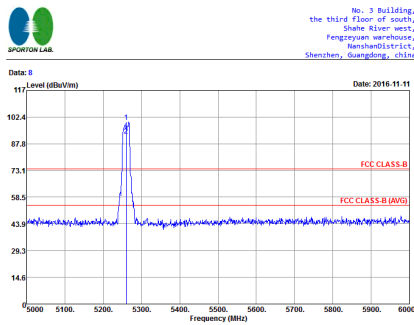
Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 4 IMEI : 004401115972989 Plane : X (Full) 30 (9) GM power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF_ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 4 IMEI : 004401115972989 Plane : X (Full) 30 (9) GM power setting 13
Avg.	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF_ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 4 IMEI : 004401115972989 Plane : X (Full) 30 (9) GM power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF_ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 4 IMEI : 004401115972989 Plane : X (Full) 30 (9) GM power setting 13



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Vertical
Peak	 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT 160507 HORIZONTAL REBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 4 IMEI : 004401115972989 Plane : X (Full) 30 (0) GM power setting 13	 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT 160507 VERTICAL REBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 4 IMEI : 004401115972989 Plane : X (Full) 30 (0) GM power setting 13
Avg.	 Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT 160507 HORIZONTAL REBW:1000.000kHz VBW:1.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 4 IMEI : 004401115972989 Plane : X (Full) 30 (0) GM power setting 13	 Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT 160507 VERTICAL REBW:1000.000kHz VBW:1.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 4 IMEI : 004401115972989 Plane : X (Full) 30 (0) GM power setting 13

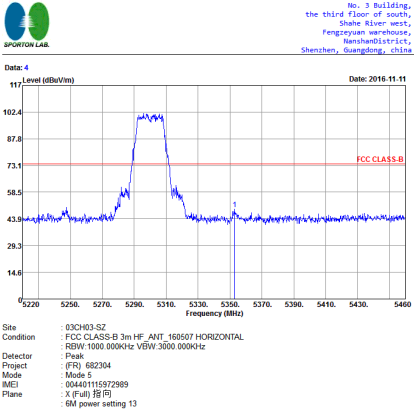
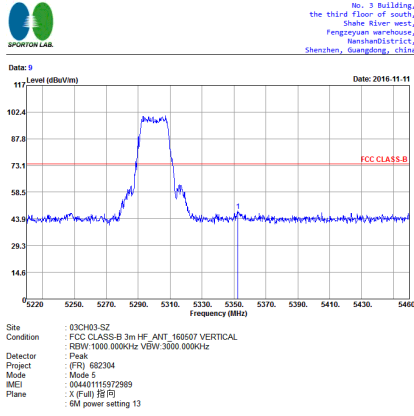
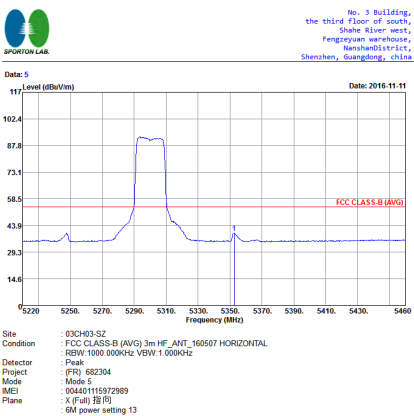
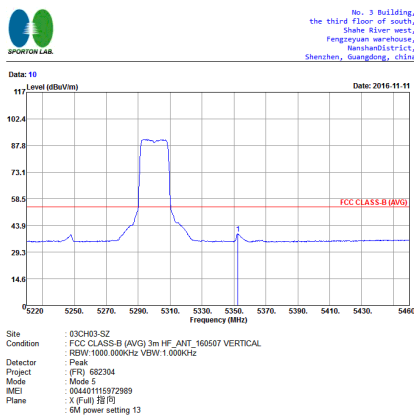


WIFI	Band 2 5250~5350MHz Fundamental @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.	 No. 3 Building, the third floor of south, Shake River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 3 Date: 2016-11-11 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : FR 682304 Mode : Mode 4 IMEI : 004401115972989 Plane : X (Full) 35 dB GM power setting 13	 No. 3 Building, the third floor of south, Shake River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 8 Date: 2016-11-11 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 VERTICAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : FR 682304 Mode : Mode 4 IMEI : 004401115972989 Plane : X (Full) 35 dB GM power setting 13

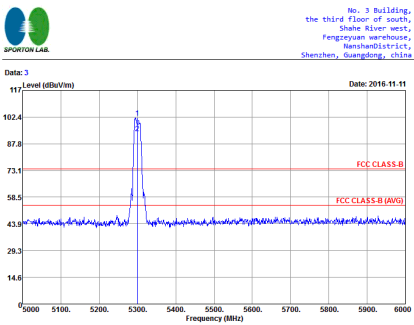
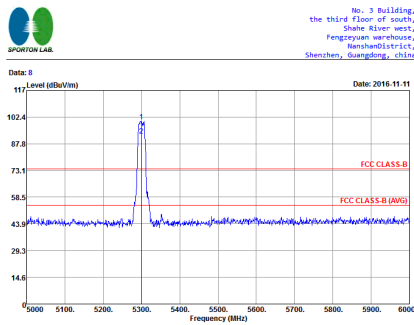


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Vertical
Peak	Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 5 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13	Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 5 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13
Avg.	Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 5 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13	Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 5 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13

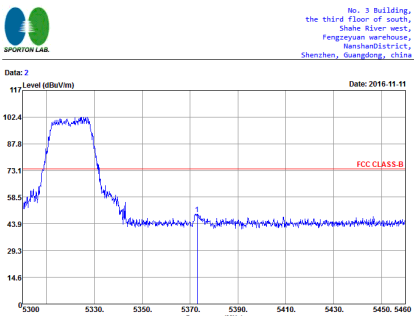
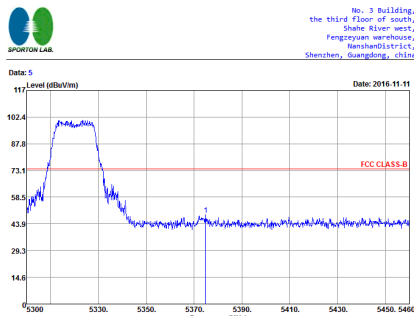
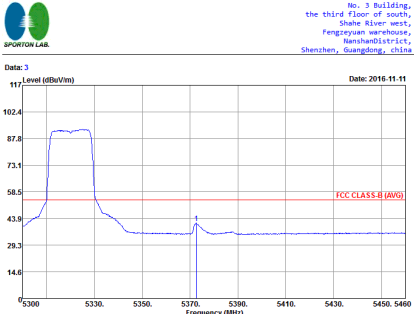
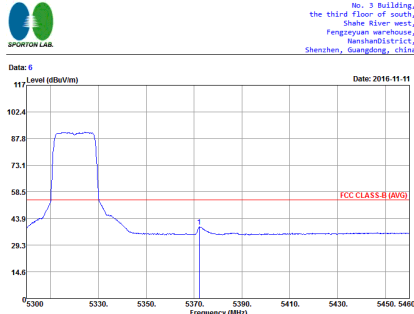


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 5 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 5 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13
Avg.	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF ANT_160507 HORIZONTAL Detector : Peak Project : (FR) 682304 Mode : Mode 5 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B (AVG) 3m HF ANT_160507 VERTICAL Detector : Peak Project : (FR) 682304 Mode : Mode 5 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13

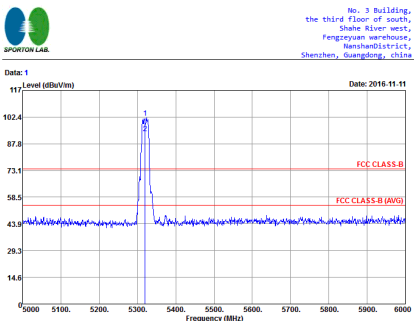
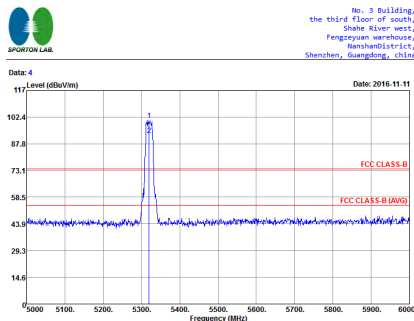


WIFI	Band 2 5250~5350MHz Fundamental @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 3 Date: 2016-11-11 Site Condition : 03CH03-SZ : FCC CLASS-B 3m HF ANT_160507 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : FR 682304 Mode : Mode S IMEI : 004401115972989 Plane : X (Full) 35 dB : 6M power setting 13	 No. 3 Building, the third floor of south, Shihe River west, Fengze Yuan warehouse, Nanshan District, Shenzhen, Guangdong, China Date: 8 Date: 2016-11-11 Site Condition : 03CH03-SZ : FCC CLASS-B 3m HF ANT_160507 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : FR 682304 Mode : Mode S IMEI : 004401115972989 Plane : X (Full) 35 dB : 6M power setting 13



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak	 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 HORIZONTAL REBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 6 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13	 Site Condition : 03CH03-SZ FCC CLASS-B 3m HF ANT_160507 VERTICAL REBW:1000.000kHz VBW:3000.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 6 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13
Avg.	 Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT_160507 HORIZONTAL REBW:1000.000kHz VBW:1.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 6 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13	 Site Condition : 03CH03-SZ FCC CLASS-B (AVG) 3m HF ANT_160507 VERTICAL REBW:1000.000kHz VBW:1.000kHz Detector : Peak Project : (FR) 682304 Mode : Mode 6 IMEI : 00440115972989 Plane : X (Full) 30 (0) GM power setting 13



WIFI	Band 2 5250~5350MHz Fundamental @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 HORIZONTAL Detector : RBW-1000.000kHz VBW-3000.000kHz Project : Peak Mode : (FR) 682304 IMEI : 004401115972989 Plane : X (Full) 35 (P) GM power setting 13	 Site : 03CH03-SZ Condition : FCC CLASS-B 3m HF ANT_160507 VERTICAL Detector : RBW-1000.000kHz VBW-3000.000kHz Project : Peak Mode : (FR) 682304 IMEI : 004401115972989 Plane : X (Full) 35 (P) GM power setting 13