FCC RF Test Report

APPLICANT	:	Honeywell International Inc.
EQUIPMENT	:	CN75WAN mobile computer
BRAND NAME	:	Honeywell
MODEL NAME	:	CN75WAN
MARKETING NAME	:	CN75
FCC ID	:	HD5-CN75WAN
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure

The product was received on Dec. 28, 2016 and testing was completed on Jan. 26, 2017. 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.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

Testing Laboratory
1190

SPORTON INTERNATIONAL INC.
No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR6D2819D	Rev. 01	Initial issue of report	Mar. 08, 2017

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	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 3.01 dB at 5150.000 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 7.80 dB at 0.694 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

Honeywell International Inc.
9680 Old Bailes Road, Fort Mill, SC 29707 USA

1.2 Manufacturer

Honeywell International Inc.
9680 Old Bailes Road, Fort Mill, SC 29707 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	CN75WAN mobile computer
Brand Name	Honeywell
Model Name	CN75WAN
Marketing Name	CN75
FCC ID	HD5-CN75WAN
Sample 1	CN75 WWAN-Q5 WWAN_Q5 keypad
Sample 2	CN75 WWAN-N5 WWAN_N5 keypad
Sample 3	CN75E WWAN-N7 WWAN_N7 keypad
Sample 4	CN75E WWAN-Q6 WWAN_Q6 keypad
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA WLAN 11a/b/g/n HT20 Bluetooth BR/EDR/LE
HW Version	v1.1
SW Version	W03.320
EUT Stage	Production Unit

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 : 13.41 dBm / 0.0219 W **<5260 MHz ~ 5320 MHz>** 802.11a : 13.39 dBm / 0.0218 W 802.11n HT20 : 13.40 dBm / 0.0219 W **<5500 MHz ~ 5700 MHz>** 802.11a : 13.19 dBm / 0.0208 W 802.11n HT20 : 13.18 dBm / 0.0208 W
99% Occupied Bandwidth	802.11a : 18.05 MHz 802.11n HT20 : 19.15 MHz
Antenna Gain / Gain	**<5150 MHz ~ 5250 MHz>** PIFA Antenna with gain 4.72 dBi **<5250 MHz ~ 5350 MHz>** PIFA Antenna with gain 5.26 dBi **<5470 MHz ~ 5725 MHz>** PIFA Antenna with gain 4.73 dBi
Type of Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)

Note: WLAN operation in 5600 MHz ~ 5650 MHz is notched.

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 1st 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.**	
	TH05-HY	CO05-HY

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

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH11-HY

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 (Z 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
	-	-	-	-
	40	5200	48	5240
	-	-		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	-	-	-	-
	56	5280	64	5320
	-	-		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	-	-	116	5580
	104	5520	132	5660
	-	-	-	-
	108	5540	136	5680
	-	-	140	5700

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

Test Cases	
AC Conducted Emission	Mode 1 : WCDMA Band V Idle + Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Scanner + Snap-on 1 + RJ-45 Cable Link with Notebook + Adapter + SD Card for Sample 3

Remark:

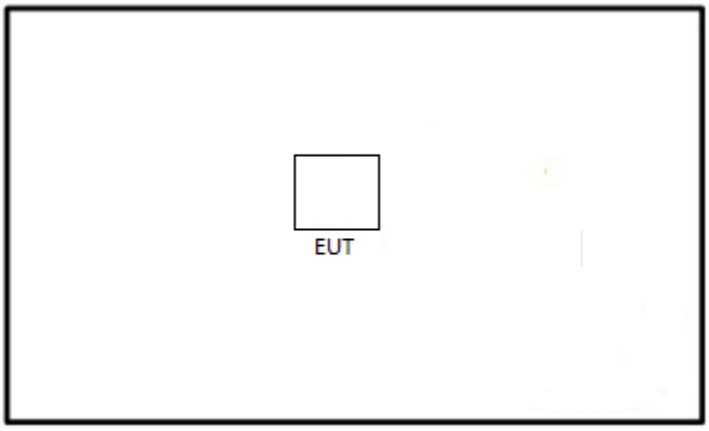
1. Snap-on 1: Ethernet Snap-On 1000AA01
2. Adapter: Level V (for Snap-on)
3. All the radiated test cases were performed with sample 4.

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

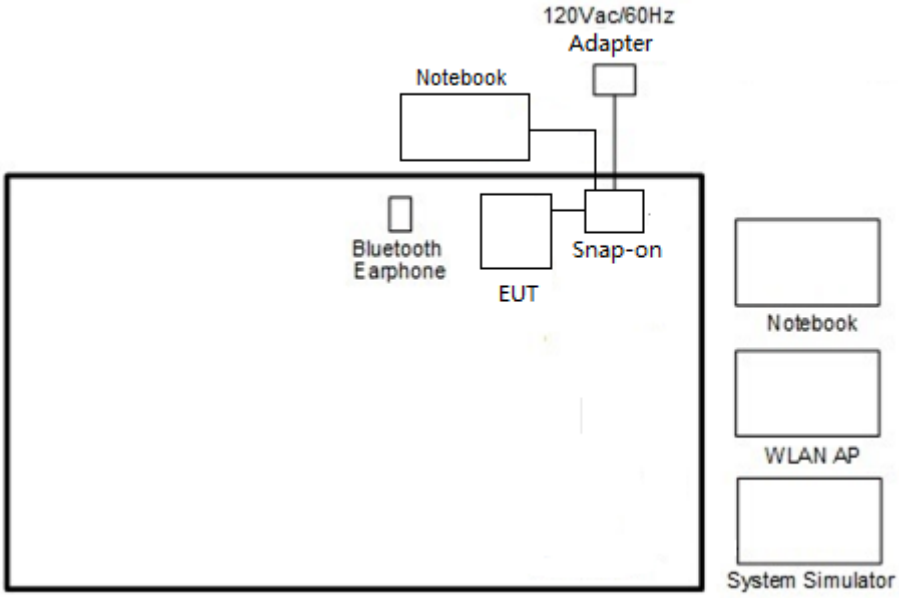
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



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	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
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.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
6.	CN75A/CN75E Vehicle dock	intermec technologies corp	1000AV01	FCC DoC	NA	NA
7.	CK75 Vehicle dock	intermec technologies corp	1001AV01	FCC DoC	NA	NA
8.	car charger	intermec technologies corp	852-057-005	Verification	NA	Unshielded, 1.2m
9.	Snap-on(LAN)	intermec technologies corp	1000AA01	FCC DoC	NA	NA
10.	Snap-on(RS232)	intermec technologies corp	1000AA03	FCC DoC	NA	NA
11.	Snap-On (VoCollect)	intermec technologies corp	1000AA05	FCC DoC	NA	NA
12.	Snap-on (USB)	intermec technologies corp	1000AA07	FCC DoC	NA	NA
13.	Snap-on adapter	intermec technologies corp	9001AE01	FCC DoC	NA	AC IP: Unshielded, 1.8m DC OP: Shielded, 1.8m
14.	Earphone	Honeywell	Vocollect SR-20	FCC DoC	1.1 meter, shielded cable	NA
15.	USB Cable	intermec technologies corp	VE011-2018	FCC DoC	NA	1.4 meter, shielded cable, w/t ferrite core
16.	Battery	intermec technologies corp	1000AB02	NA	NA	NA

2.5 EUT Operation Test Setup

For WLAN function, programmed RF utility, “rtt-adv-usr v21” installed in the EUT 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.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

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.

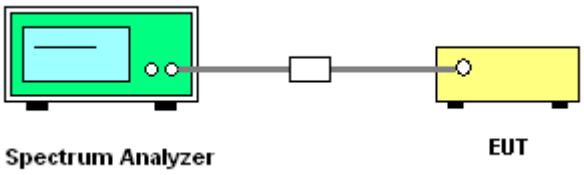
3.1.2 Measuring Instruments

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) ≥ 3 * RBW.
8. Measure and record the results in the test report.

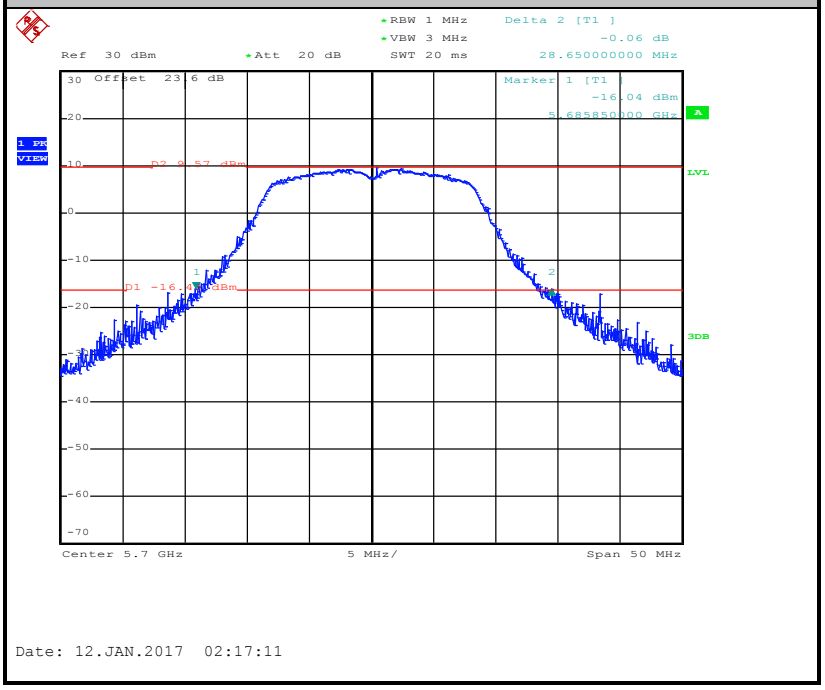
3.1.4 Test Setup



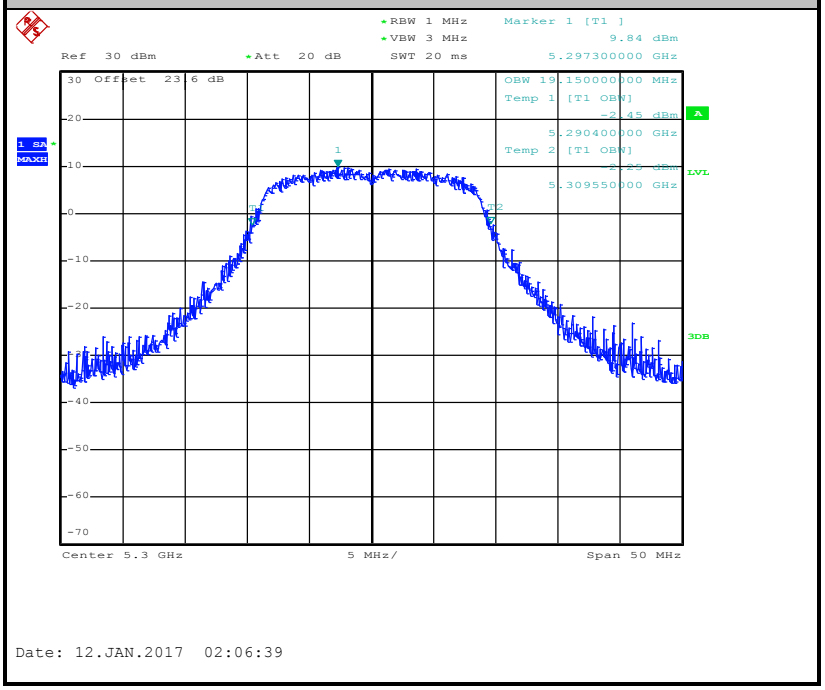
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth Plots

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

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 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.

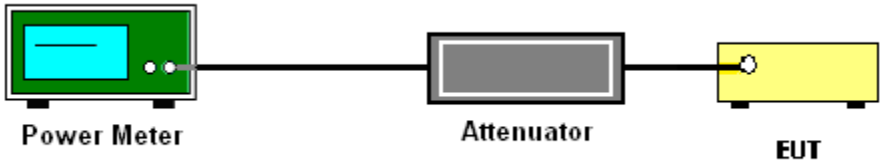
3.2.3 Test Procedures

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

<FCC 14-30 CFR 15.407>

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.

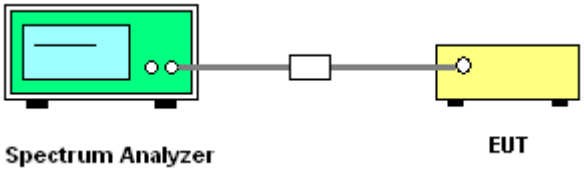
Section F) Maximum power spectral density.

 # 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 ≥ 3 MHz.
   - Number of points in sweep ≥ 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.

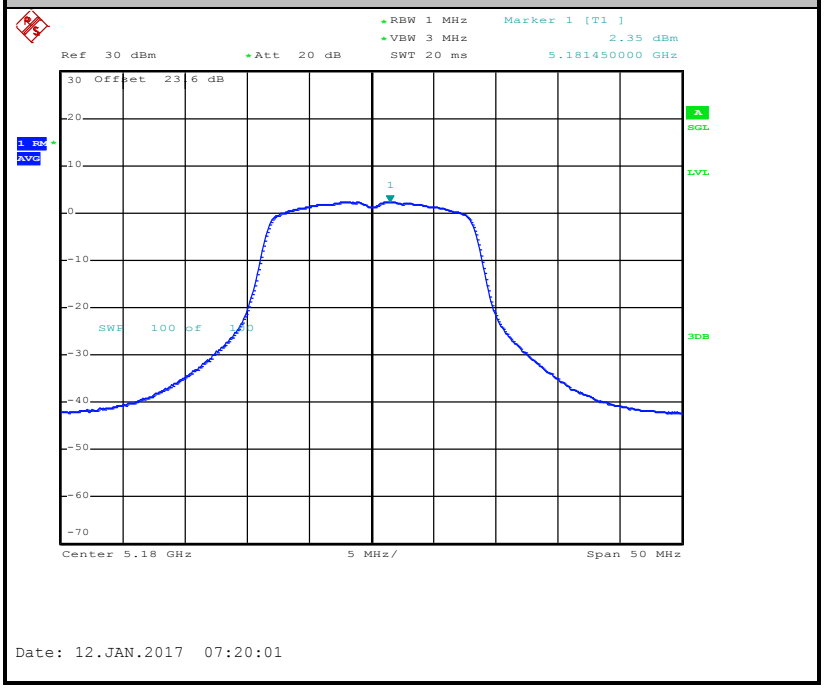
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Spectral Density(dBm/MHz)



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 Part15.205.

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 Part15.205 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.

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/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

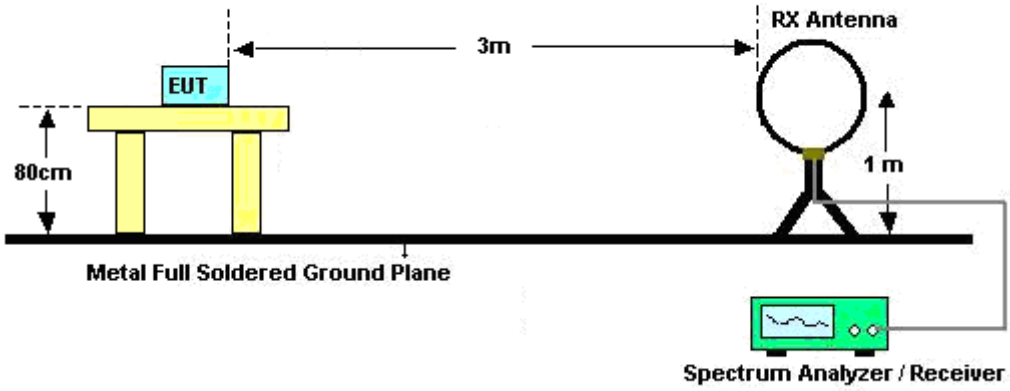
   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

   (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.

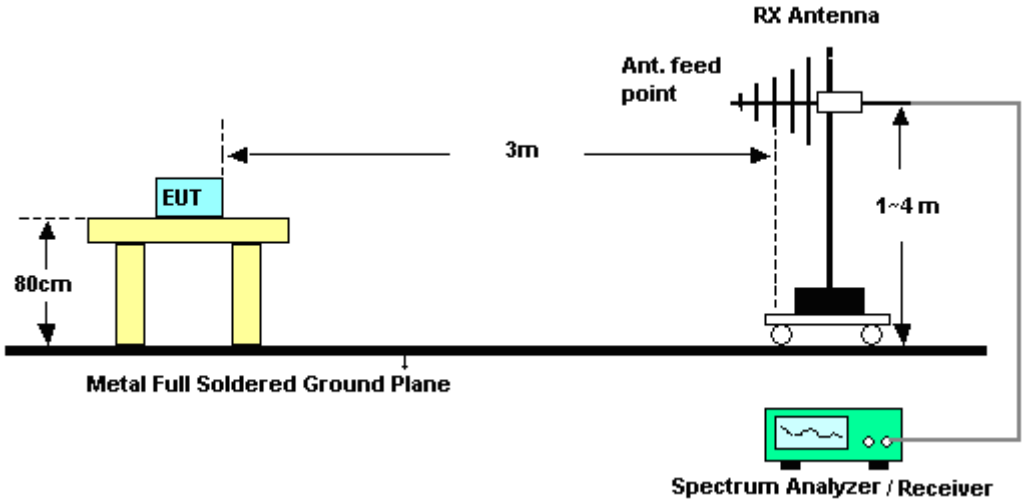
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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

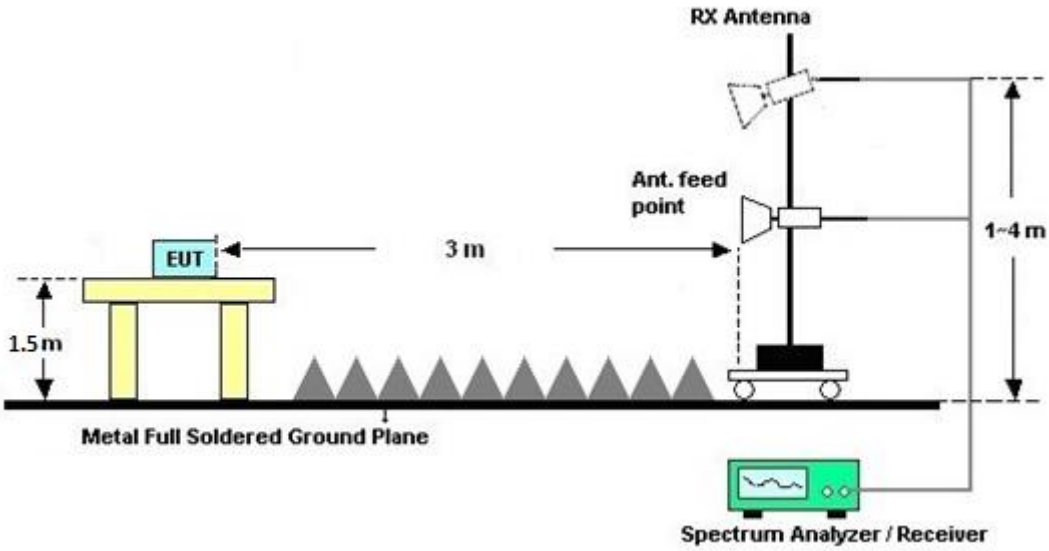
For radiated emissions below 30MHz



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 (dBμV)	
	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.

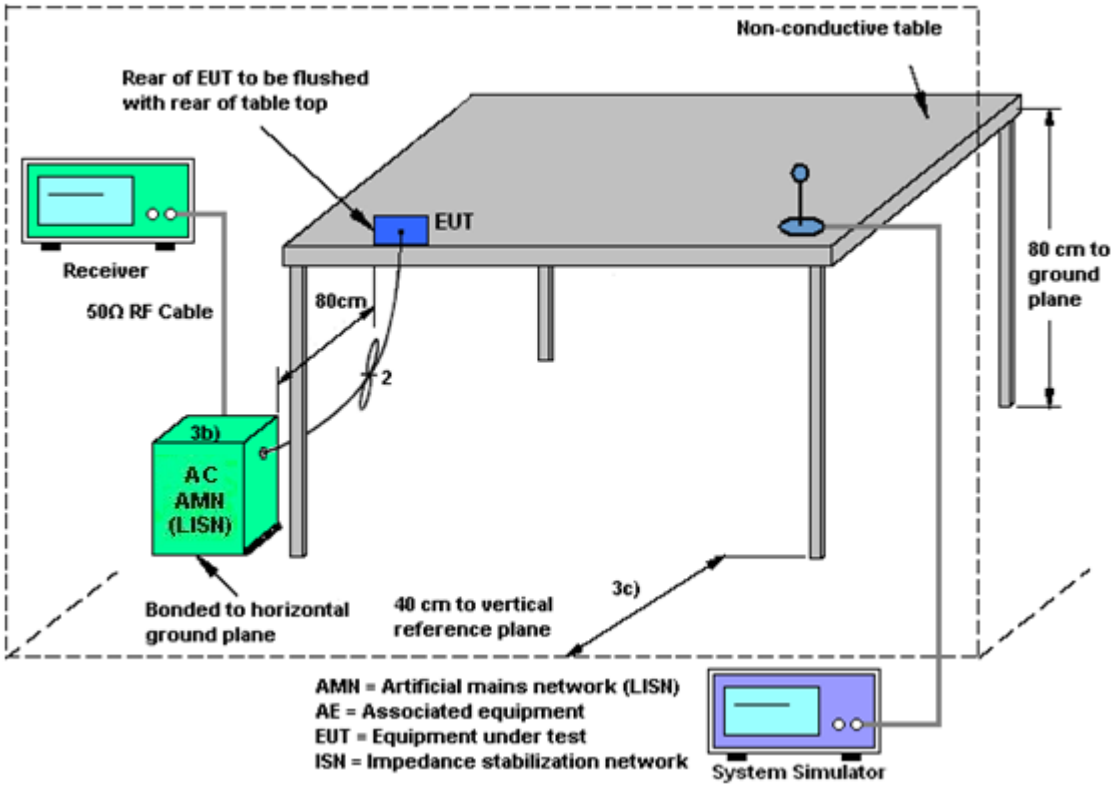
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

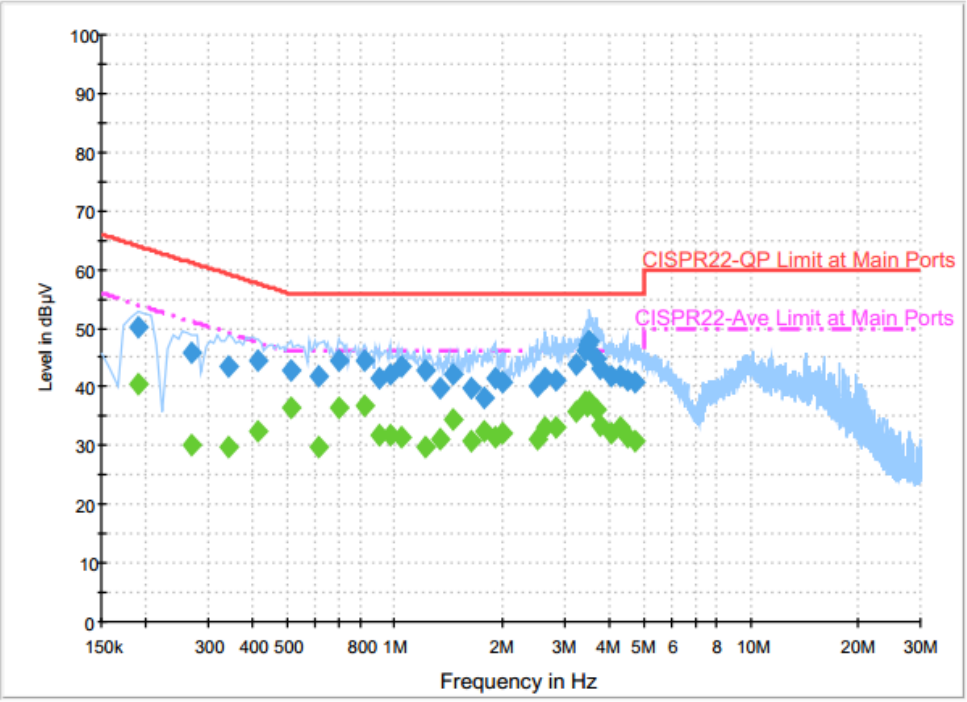
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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

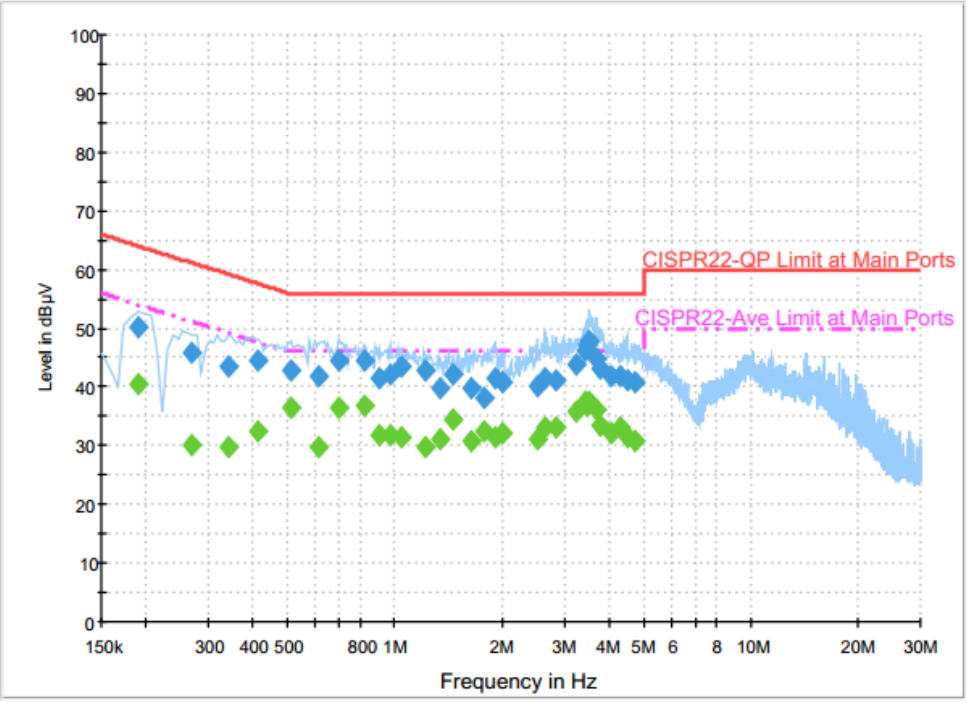
Test Mode :	Mode 1	**Temperature :**	21~23℃
Test Engineer :	Arthur Hsieh	**Relative Humidity :**	51~53%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	WCDMA Band V Idle + Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Scanner + Snap-on 1 + RJ-45 Cable Link with Notebook + Adapter + SD Card for Sample 3		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190000	50.1	Off	L1	19.6	13.9	64.0
0.270000	45.7	Off	L1	19.6	15.4	61.1
0.342000	43.6	Off	L1	19.6	15.6	59.2
0.414000	44.6	Off	L1	19.6	13.0	57.6
0.510000	42.8	Off	L1	19.6	13.2	56.0
0.614000	41.8	Off	L1	19.6	14.2	56.0
0.694000	44.4	Off	L1	19.6	11.6	56.0
0.822000	44.4	Off	L1	19.6	11.6	56.0
0.902000	41.5	Off	L1	19.6	14.5	56.0
0.974000	42.2	Off	L1	19.6	13.8	56.0
1.046000	43.4	Off	L1	19.6	12.6	56.0
1.214000	42.7	Off	L1	19.6	13.3	56.0
1.342000	39.7	Off	L1	19.6	16.3	56.0
1.454000	42.1	Off	L1	19.6	13.9	56.0
1.638000	39.7	Off	L1	19.6	16.3	56.0

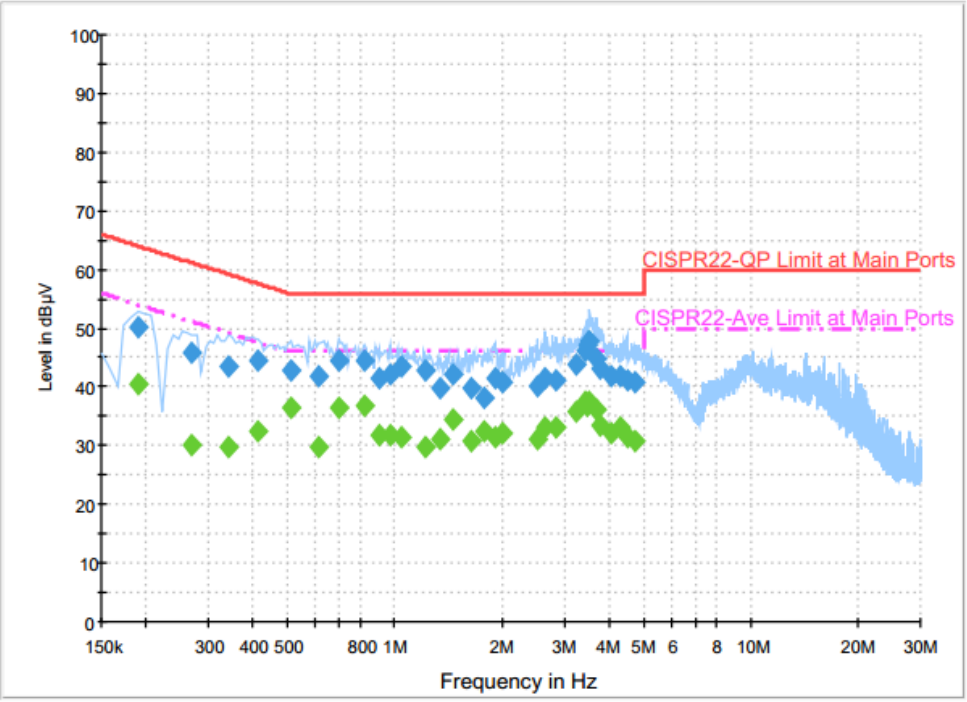
Test Mode :	Mode 1	**Temperature :**	21~23℃
Test Engineer :	Arthur Hsieh	**Relative Humidity :**	51~53%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	WCDMA Band V Idle + Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Scanner + Snap-on 1 + RJ-45 Cable Link with Notebook + Adapter + SD Card for Sample 3		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.782000	38.0	Off	L1	19.6	18.0	56.0
1.910000	41.4	Off	L1	19.6	14.6	56.0
2.006000	40.9	Off	L1	19.6	15.1	56.0
2.518000	40.1	Off	L1	19.1	15.9	56.0
2.638000	41.4	Off	L1	19.3	14.6	56.0
2.854000	41.2	Off	L1	19.4	14.8	56.0
3.246000	43.8	Off	L1	19.5	12.2	56.0
3.422000	46.1	Off	L1	19.5	9.9	56.0
3.478000	47.1	Off	L1	19.5	8.9	56.0
3.534000	48.0	Off	L1	19.5	8.0	56.0
3.670000	45.0	Off	L1	19.6	11.0	56.0
3.790000	43.0	Off	L1	19.6	13.0	56.0
4.038000	41.9	Off	L1	19.6	14.1	56.0
4.310000	41.8	Off	L1	19.6	14.2	56.0
4.494000	41.2	Off	L1	19.6	14.8	56.0
4.750000	40.9	Off	L1	19.6	15.1	56.0

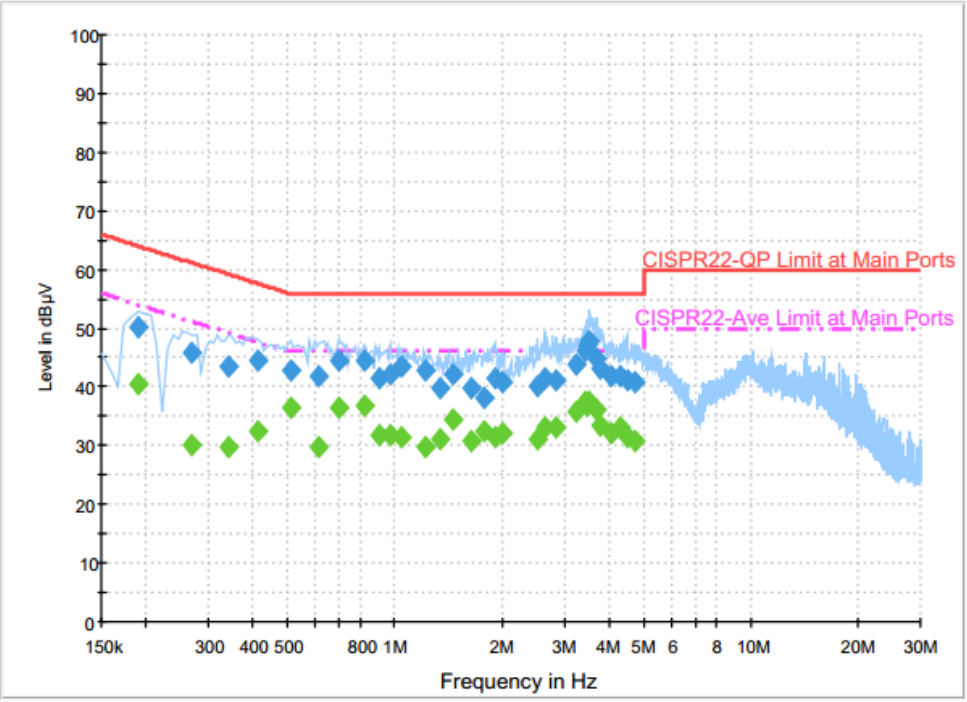
Test Mode :	Mode 1	**Temperature :**	21~23℃
Test Engineer :	Arthur Hsieh	**Relative Humidity :**	51~53%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	WCDMA Band V Idle + Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Scanner + Snap-on 1 + RJ-45 Cable Link with Notebook + Adapter + SD Card for Sample 3		



Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190000	40.6	Off	L1	19.6	13.4	54.0
0.270000	30.3	Off	L1	19.6	20.8	51.1
0.342000	29.8	Off	L1	19.6	19.4	49.2
0.414000	32.6	Off	L1	19.6	15.0	47.6
0.510000	36.6	Off	L1	19.6	9.4	46.0
0.614000	29.8	Off	L1	19.6	16.2	46.0
0.694000	36.5	Off	L1	19.6	9.5	46.0
0.822000	36.9	Off	L1	19.6	9.1	46.0
0.902000	31.9	Off	L1	19.6	14.1	46.0
0.974000	31.9	Off	L1	19.6	14.1	46.0
1.046000	31.4	Off	L1	19.6	14.6	46.0
1.214000	29.7	Off	L1	19.6	16.3	46.0
1.342000	31.0	Off	L1	19.6	15.0	46.0
1.454000	34.4	Off	L1	19.6	11.6	46.0
1.638000	30.7	Off	L1	19.6	15.3	46.0

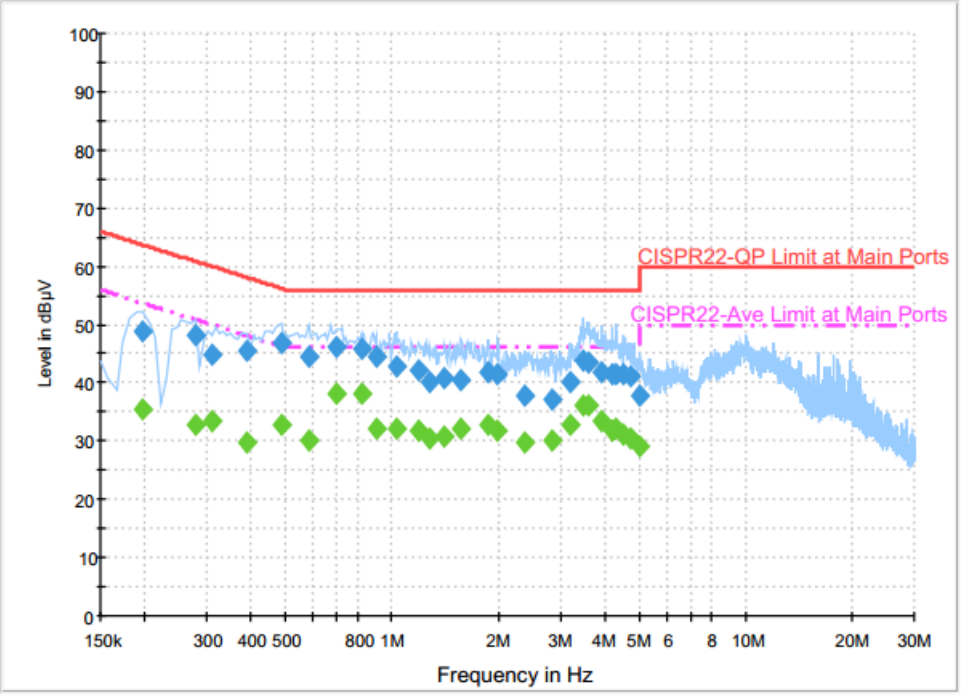
Test Mode :	Mode 1	**Temperature :**	21~23℃
Test Engineer :	Arthur Hsieh	**Relative Humidity :**	51~53%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	WCDMA Band V Idle + Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Scanner + Snap-on 1 + RJ-45 Cable Link with Notebook + Adapter + SD Card for Sample 3		



Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.782000	32.4	Off	L1	19.6	13.6	46.0
1.910000	31.3	Off	L1	19.6	14.7	46.0
2.006000	32.1	Off	L1	19.6	13.9	46.0
2.518000	31.3	Off	L1	19.1	14.7	46.0
2.638000	33.1	Off	L1	19.3	12.9	46.0
2.854000	33.2	Off	L1	19.4	12.8	46.0
3.246000	35.7	Off	L1	19.5	10.3	46.0
3.422000	37.5	Off	L1	19.5	8.5	46.0
3.478000	36.9	Off	L1	19.5	9.1	46.0
3.534000	37.6	Off	L1	19.5	8.4	46.0
3.670000	36.1	Off	L1	19.6	9.9	46.0
3.790000	33.5	Off	L1	19.6	12.5	46.0
4.038000	32.0	Off	L1	19.6	14.0	46.0
4.310000	33.1	Off	L1	19.6	12.9	46.0
4.494000	31.4	Off	L1	19.6	14.6	46.0
4.750000	30.7	Off	L1	19.6	15.3	46.0

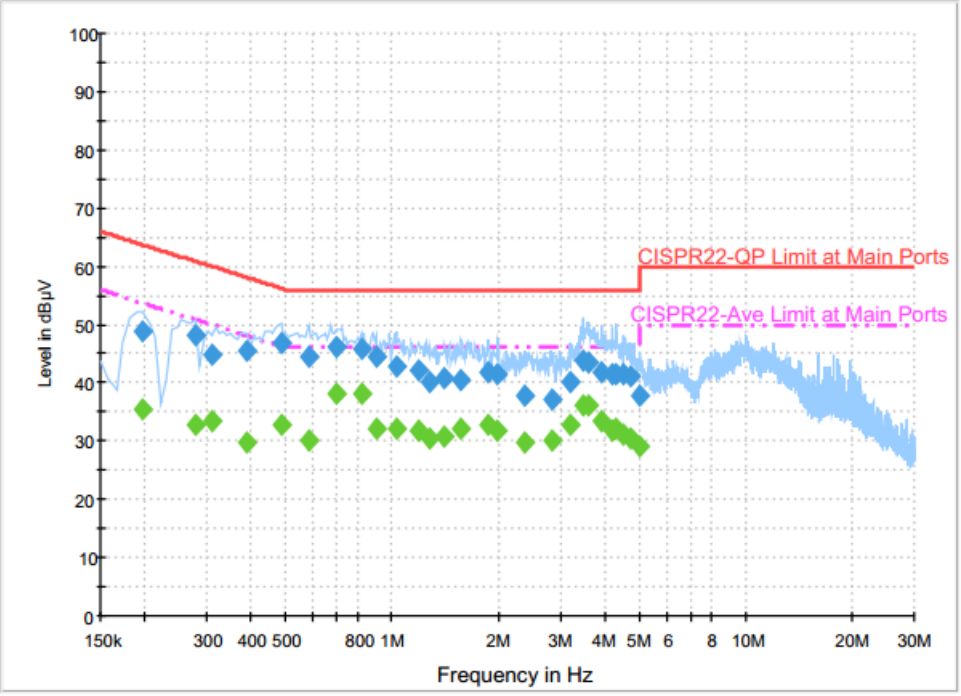
Test Mode :	Mode 1	**Temperature :**	21~23℃
Test Engineer :	Arthur Hsieh	**Relative Humidity :**	51~53%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Function Type :	WCDMA Band V Idle + Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Scanner + Snap-on 1 + RJ-45 Cable Link with Notebook + Adapter + SD Card for Sample 3		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.198000	48.9	Off	N	19.5	14.8	63.7
0.278000	48.2	Off	N	19.5	12.7	60.9
0.310000	44.8	Off	N	19.5	15.2	60.0
0.390000	45.6	Off	N	19.5	12.5	58.1
0.486000	46.8	Off	N	19.6	9.4	56.2
0.582000	44.5	Off	N	19.5	11.5	56.0
0.694000	46.3	Off	N	19.5	9.7	56.0
0.822000	45.7	Off	N	19.5	10.3	56.0
0.902000	44.6	Off	N	19.5	11.4	56.0
1.030000	42.8	Off	N	19.5	13.2	56.0
1.190000	42.0	Off	N	19.6	14.0	56.0
1.286000	40.3	Off	N	19.6	15.7	56.0
1.414000	40.9	Off	N	19.6	15.1	56.0
1.574000	40.5	Off	N	19.6	15.5	56.0

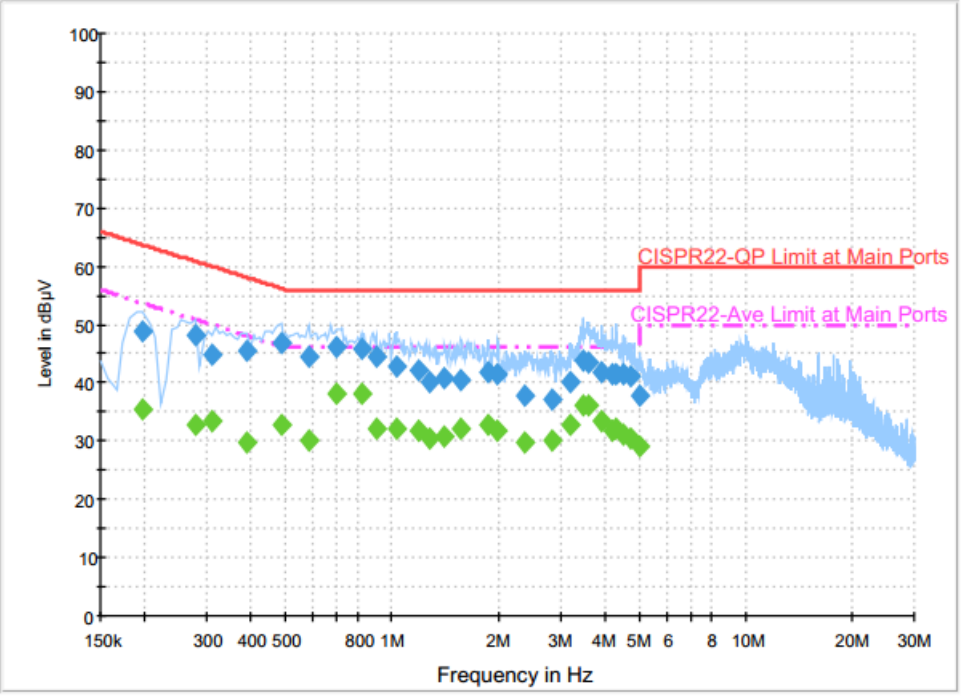
Test Mode :	Mode 1	**Temperature :**	21~23℃
Test Engineer :	Arthur Hsieh	**Relative Humidity :**	51~53%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Function Type :	WCDMA Band V Idle + Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Scanner + Snap-on 1 + RJ-45 Cable Link with Notebook + Adapter + SD Card for Sample 3		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.870000	42.0	Off	N	19.6	14.0	56.0
1.998000	41.5	Off	N	19.6	14.5	56.0
2.382000	37.7	Off	N	18.9	18.3	56.0
2.854000	37.3	Off	N	19.4	18.7	56.0
3.198000	40.2	Off	N	19.5	15.8	56.0
3.486000	43.9	Off	N	19.5	12.1	56.0
3.606000	43.6	Off	N	19.5	12.4	56.0
3.902000	42.0	Off	N	19.6	14.0	56.0
4.222000	41.6	Off	N	19.6	14.4	56.0
4.318000	41.4	Off	N	19.6	14.6	56.0
4.502000	41.6	Off	N	19.6	14.4	56.0
4.758000	41.2	Off	N	19.6	14.8	56.0
5.038000	37.7	Off	N	19.6	22.3	60.0

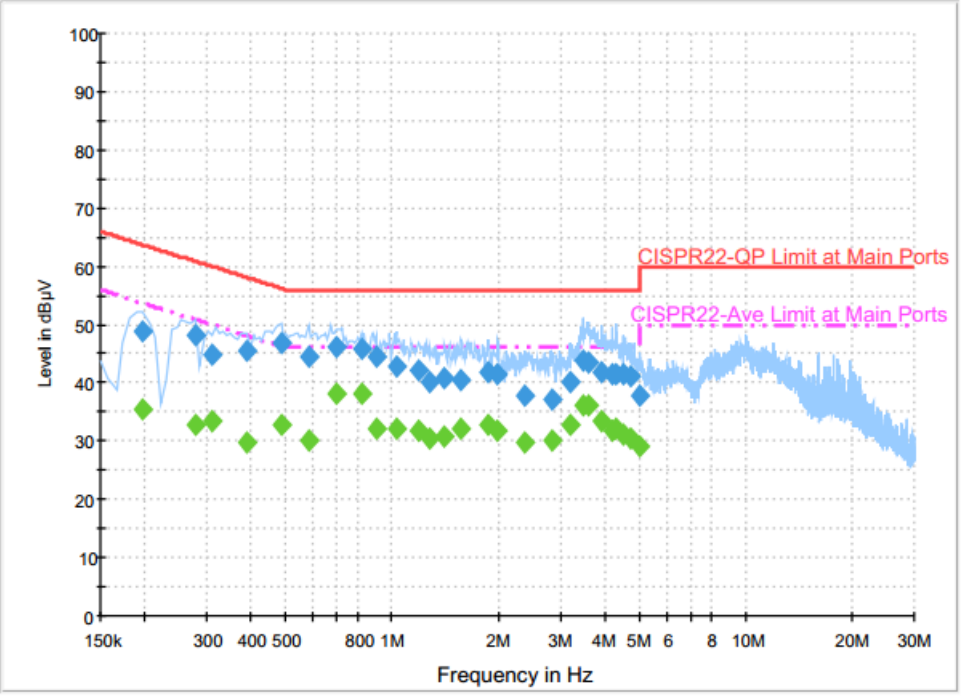
Test Mode :	Mode 1	**Temperature :**	21~23℃
Test Engineer :	Arthur Hsieh	**Relative Humidity :**	51~53%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Function Type :	WCDMA Band V Idle + Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Scanner + Snap-on 1 + RJ-45 Cable Link with Notebook + Adapter + SD Card for Sample 3		



Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.198000	35.4	Off	N	19.5	18.3	53.7
0.278000	32.9	Off	N	19.5	18.0	50.9
0.310000	33.4	Off	N	19.5	16.6	50.0
0.390000	29.7	Off	N	19.5	18.4	48.1
0.486000	32.9	Off	N	19.6	13.3	46.2
0.582000	30.2	Off	N	19.5	15.8	46.0
0.694000	38.2	Off	N	19.5	7.8	46.0
0.822000	38.0	Off	N	19.5	8.0	46.0
0.902000	32.0	Off	N	19.5	14.0	46.0
1.030000	32.0	Off	N	19.5	14.0	46.0
1.190000	31.9	Off	N	19.6	14.1	46.0
1.286000	30.5	Off	N	19.6	15.5	46.0
1.414000	30.7	Off	N	19.6	15.3	46.0
1.574000	32.2	Off	N	19.6	13.8	46.0

Test Mode :	Mode 1	**Temperature :**	21~23℃
Test Engineer :	Arthur Hsieh	**Relative Humidity :**	51~53%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Function Type :	WCDMA Band V Idle + Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Scanner + Snap-on 1 + RJ-45 Cable Link with Notebook + Adapter + SD Card for Sample 3		



Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.870000	32.8	Off	N	19.6	13.2	46.0
1.998000	31.6	Off	N	19.6	14.4	46.0
2.382000	29.7	Off	N	18.9	16.3	46.0
2.854000	30.1	Off	N	19.4	15.9	46.0
3.198000	32.9	Off	N	19.5	13.1	46.0
3.486000	36.1	Off	N	19.5	9.9	46.0
3.606000	36.2	Off	N	19.5	9.8	46.0
3.902000	33.4	Off	N	19.6	12.6	46.0
4.222000	31.8	Off	N	19.6	14.2	46.0
4.318000	32.1	Off	N	19.6	13.9	46.0
4.502000	31.2	Off	N	19.6	14.8	46.0
4.758000	30.4	Off	N	19.6	15.6	46.0
5.038000	29.2	Off	N	19.6	20.8	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.

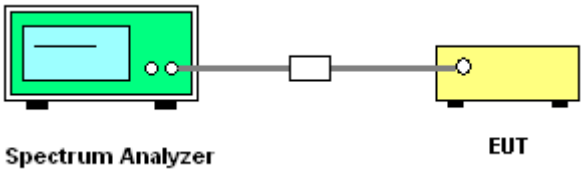
3.6.2 Measuring Instruments

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
Power Meter	Anritsu	ML2495A	0932001	300MHz~40GHz	Sep. 29, 2016	Jan. 10, 2017 ~ Jan. 26, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Jan. 10, 2017 ~ Jan. 26, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jul. 17, 2016	Jan. 10, 2017 ~ Jan. 26, 2017	Jul. 16, 2017	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 01, 2016	Jan. 10, 2017 ~ Jan. 26, 2017	Aug. 31, 2017	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 11, 2016	Jan. 10, 2017 ~ Jan. 26, 2017	Oct. 10, 2017	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jan. 17, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Jan. 17, 2017	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Jan. 17, 2017	Nov. 28, 2017	Conduction (CO05-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 10, 2016	Jan. 19, 2017 ~ Jan. 21, 2017	Nov. 09, 2017	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Jan. 19, 2017 ~ Jan. 21, 2017	Sep. 01, 2017	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D	35414	30MHz~1GHz	Oct. 15, 2016	Jan. 19, 2017 ~ Jan. 21, 2017	Oct. 14, 2017	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1GHz ~ 18GHz	Mar. 30, 2016	Jan. 19, 2017 ~ Jan. 21, 2017	Mar. 31, 2017	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 10, 2016	Jan. 19, 2017 ~ Jan. 21, 2017	Nov. 09, 2017	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY52350276	10Hz ~ 44GHZ	Mar. 21, 2016	Jan. 19, 2017 ~ Jan. 21, 2017	Mar. 20, 2017	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jan. 19, 2017 ~ Jan. 21, 2017	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jan. 19, 2017 ~ Jan. 21, 2017	N/A	Radiation (03CH11-HY)
Preamplifier	MITEQ	TTA0204	1872107	2GHz~40GHz	Feb. 15, 2016	Jan. 19, 2017 ~ Jan. 21, 2017	Feb. 14, 2017	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 08, 2016	Jan. 19, 2017 ~ Jan. 21, 2017	Nov. 07, 2017	Radiation (03CH11-HY)

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

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.2

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.5

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.2

Appendix A. Conducted Test Results

Report Number : FR6D2819D

Test Engineer:	Aking chang	Temperature:	21~25	°C
Test Date:	2017/01/10~2017/01/26	Relative Humidity:	51~54	%

Report Number : FR6D2819D

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	17.85	26.60	-	22.52		
11a	6Mbps	1	44	5220	18.05	26.60	-	22.56		
11a	6Mbps	1	48	5240	17.85	26.75	-	22.52		
HT20	MCS0	1	36	5180	18.85	28.15	-	22.75		
HT20	MCS0	1	44	5220	18.85	27.50	-	22.75		
HT20	MCS0	1	48	5240	18.95	27.05	-	22.78		

Report Number : FR6D2819D

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	0.05	13.43	24.00	4.72		Pass
11a	6Mbps	1	44	5220	0.05	13.31	24.00	4.72		Pass
11a	6Mbps	1	48	5240	0.05	13.25	24.00	4.72		Pass
HT20	MCS0	1	36	5180	0.05	13.41	24.00	4.72		Pass
HT20	MCS0	1	44	5220	0.05	13.30	24.00	4.72		Pass
HT20	MCS0	1	48	5240	0.05	13.25	24.00	4.72		Pass

Report Number : FR6D2819D

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	0.05	2.40	11.00	4.72		Pass
11a	6Mbps	1	44	5220	0.05	1.97	11.00	4.72		Pass
11a	6Mbps	1	48	5240	0.05	1.56	11.00	4.72		Pass
HT20	MCS0	1	36	5180	0.05	2.38	11.00	4.72		Pass
HT20	MCS0	1	44	5220	0.05	1.77	11.00	4.72		Pass
HT20	MCS0	1	48	5240	0.05	1.45	11.00	4.72		Pass

Report Number : FR6D2819D

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	17.75	26.40	23.49	29.49	23.98	
11a	6M bps	1	60	5300	17.85	26.20	23.52	29.52	23.98	
11a	6M bps	1	64	5320	17.95	25.70	23.54	29.54	23.98	
HT20	MCS 0	1	52	5260	18.65	26.70	23.71	29.71	23.98	
HT20	MCS 0	1	60	5300	19.15	27.90	23.82	29.82	23.98	
HT20	MCS 0	1	64	5320	19.05	28.00	23.80	29.80	23.98	

Report Number : FR6D2819D

TEST RESULTS DATA
Average Power Table

FCC Band II										
Mod.	Data Rate	N_{TX}	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	0.05	13.37	23.98	5.26	26.99	Pass
11a	6M bps	1	60	5300	0.05	13.35	23.98	5.26	26.99	Pass
11a	6M bps	1	64	5320	0.05	13.39	23.98	5.26	26.99	Pass
HT20	MCS 0	1	52	5260	0.05	13.39	23.98	5.26	26.99	Pass
HT20	MCS 0	1	60	5300	0.05	13.35	23.98	5.26	26.99	Pass
HT20	MCS 0	1	64	5320	0.05	13.40	23.98	5.26	26.99	Pass

Report Number : FR6D2819D

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	0.05	1.75	11.00	5.26		Pass
11a	6M bps	1	60	5300	0.05	1.72	11.00	5.26		Pass
11a	6M bps	1	64	5320	0.05	1.57	11.00	5.26		Pass
HT20	MCS 0	1	52	5260	0.05	1.52	11.00	5.26		Pass
HT20	MCS 0	1	60	5300	0.05	1.48	11.00	5.26		Pass
HT20	MCS 0	1	64	5320	0.05	1.37	11.00	5.26		Pass

Report Number : FR6D2819D

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	17.90	26.30	23.53	29.53	23.98	
11a	6M bps	1	116	5580	17.80	26.60	23.50	29.50	23.98	
11a	6M bps	1	140	5700	17.85	27.10	23.52	29.52	23.98	
HT20	MCS 0	1	100	5500	18.90	27.50	23.76	29.76	23.98	
HT20	MCS 0	1	116	5580	18.75	27.20	23.73	29.73	23.98	
HT20	MCS 0	1	140	5700	18.90	28.65	23.76	29.76	23.98	

Report Number : FR6D2819D

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	0.05	13.19	23.98	4.73	26.99	Pass
11a	6M bps	1	116	5580	0.05	13.09	23.98	4.73	26.99	Pass
11a	6M bps	1	140	5700	0.05	13.15	23.98	4.73	26.99	Pass
HT20	MCS 0	1	100	5500	0.05	13.18	23.98	4.73	26.99	Pass
HT20	MCS 0	1	116	5580	0.05	13.10	23.98	4.73	26.99	Pass
HT20	MCS 0	1	140	5700	0.05	13.17	23.98	4.73	26.99	Pass

Report Number : FR6D2819D

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	0.05	1.38	11.00	4.73		Pass
11a	6M bps	1	116	5580	0.05	2.05	11.00	4.73		Pass
11a	6M bps	1	140	5700	0.05	1.01	11.00	4.73		Pass
HT20	MCS 0	1	100	5500	0.05	1.25	11.00	4.73		Pass
HT20	MCS 0	1	116	5580	0.05	1.81	11.00	4.73		Pass
HT20	MCS 0	1	140	5700	0.05	0.69	11.00	4.73		Pass

Report Number : FR6D2819D

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	50	3.8	
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	-30	3.8	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	4.3	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	3.6	
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	20	3.8	

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	50	3.8	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	-30	3.8	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	4.3	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	3.6	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	3.8	

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	50	3.8	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	-30	3.8	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	4.3	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	20	3.6	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	3.8	

Appendix B. Radiated Spurious Emission

Test Engineer :	Ken Wu	**Temperature :**	20~23°C
		Relative Humidity :	50~54%

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)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5149.5	62.25	-11.75	74	51.89	32.21	11.18	33.03	280	344	P	H
		5150	50.99	-3.01	54	40.63	32.21	11.18	33.03	280	344	A	H
	*	5180	113.78	-	-	103.37	32.26	11.18	33.03	280	344	P	H
	*	5180	105.28	-	-	94.87	32.26	11.18	33.03	280	344	A	H
													H
													H
		5150	56.04	-17.96	74	45.68	32.21	11.18	33.03	102	332	P	V
		5150	44.43	-9.57	54	34.07	32.21	11.18	33.03	102	332	A	V
	*	5180	105.76	-	-	95.35	32.26	11.18	33.03	102	332	P	V
	*	5180	97.25	-	-	86.84	32.26	11.18	33.03	102	332	A	V
													V
													V
802.11a CH 44 5220MHz		5137.54	51.89	-22.11	74	41.54	32.19	11.19	33.03	290	349	P	H
		5145.86	43.15	-10.85	54	32.79	32.21	11.18	33.03	290	349	A	H
	*	5220	113.34	-	-	102.9	32.3	11.17	33.03	290	349	P	H
	*	5220	104.74	-	-	94.3	32.3	11.17	33.03	290	349	A	H
		5399.04	51.89	-22.11	74	41.04	32.56	11.31	33.02	290	349	P	H
		5378.64	42.09	-11.91	54	31.29	32.54	11.28	33.02	290	349	A	H
		5139.88	50.86	-23.14	74	40.49	32.21	11.19	33.03	100	339	P	V
		5035.1	41.54	-12.46	54	31.31	32.05	11.22	33.04	100	339	A	V
	*	5220	106.4	-	-	95.96	32.3	11.17	33.03	100	339	P	V
	*	5220	98.39	-	-	87.95	32.3	11.17	33.03	100	339	A	V
		5378.16	50.1	-23.9	74	39.3	32.54	11.28	33.02	100	339	P	V
		5459.52	40.87	-13.13	54	29.92	32.63	11.34	33.02	100	339	A	V

802.11a CH 48 5240MHz		5022.36	52.43	-21.57	74	42.2	32.05	11.22	33.04	293	354	P	H
		5085.54	42.68	-11.32	54	32.39	32.12	11.21	33.04	293	354	A	H
	*	5240	113.34	-	-	102.85	32.33	11.19	33.03	293	354	P	H
	*	5240	104.79	-	-	94.3	32.33	11.19	33.03	293	354	A	H
		5375.28	50.6	-23.4	74	39.83	32.51	11.28	33.02	293	354	P	H
		5395.2	42.06	-11.94	54	31.21	32.56	11.31	33.02	293	354	A	H
		5108.42	50.65	-23.35	74	40.34	32.16	11.19	33.04	100	339	P	V
		5081.64	41.6	-12.4	54	31.31	32.12	11.21	33.04	100	339	A	V
	*	5240	107.31	-	-	96.82	32.33	11.19	33.03	100	339	P	V
	*	5240	98.65	-	-	88.16	32.33	11.19	33.03	100	339	A	V
		5410.08	51.02	-22.98	74	40.17	32.56	11.31	33.02	100	339	P	V
		5458.32	40.85	-13.15	54	29.9	32.63	11.34	33.02	100	339	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	40.81	-33.19	74	37.03	39.84	15.02	51.08	100	0	P	H
		15540	39.2	-34.8	74	34.63	38.21	18.16	51.8	100	0	P	H
													H
													H
		10360	40.43	-33.57	74	36.65	39.84	15.02	51.08	100	0	P	V
		15540	39.44	-34.56	74	34.87	38.21	18.16	51.8	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	39.9	-34.1	74	36.06	39.92	15.08	51.16	100	0	P	H
		15660	39.92	-34.08	74	35.26	38.23	18.23	51.8	100	0	P	H
													H
													H
		10440	39.49	-34.51	74	35.65	39.92	15.08	51.16	100	0	P	V
		15660	39.59	-34.41	74	34.93	38.23	18.23	51.8	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	40.13	-33.87	74	36.24	39.98	15.11	51.2	100	0	P	H
		15720	39.72	-34.28	74	35	38.24	18.28	51.8	100	0	P	H
													H
													H
		10480	39.49	-34.51	74	35.6	39.98	15.11	51.2	100	0	P	V
		15720	38.72	-35.28	74	34	38.24	18.28	51.8	100	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 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		5150	57.73	-16.27	74	47.37	32.21	11.18	33.03	317	344	P	H
		5150	49.69	-4.31	54	39.33	32.21	11.18	33.03	317	344	A	H
	*	5180	112.63	-	-	102.22	32.26	11.18	33.03	317	344	P	H
	*	5180	104.96	-	-	94.55	32.26	11.18	33.03	317	344	A	H
													H
													H
		5112.84	51.63	-22.37	74	41.32	32.16	11.19	33.04	104	335	P	V
		5150	43.38	-10.62	54	33.02	32.21	11.18	33.03	104	335	A	V
	*	5180	104.15	-	-	93.74	32.26	11.18	33.03	104	335	P	V
	*	5180	97.02	-	-	86.61	32.26	11.18	33.03	104	335	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5132.34	52.6	-21.4	74	42.25	32.19	11.19	33.03	293	351	P	H
		5147.42	43.34	-10.66	54	32.98	32.21	11.18	33.03	293	351	A	H
	*	5220	113.83	-	-	103.39	32.3	11.17	33.03	293	351	P	H
	*	5220	106.58	-	-	96.14	32.3	11.17	33.03	293	351	A	H
		5388.24	52.01	-21.99	74	41.18	32.54	11.31	33.02	293	351	P	H
		5378.64	42.29	-11.71	54	31.49	32.54	11.28	33.02	293	351	A	H
		5118.04	52.28	-21.72	74	41.97	32.16	11.19	33.04	105	335	P	V
		5089.18	41.52	-12.48	54	31.21	32.14	11.21	33.04	105	335	A	V
	*	5220	106.82	-	-	96.38	32.3	11.17	33.03	105	335	P	V
	*	5220	99.56	-	-	89.12	32.3	11.17	33.03	105	335	A	V
		5397.36	51.49	-22.51	74	40.64	32.56	11.31	33.02	105	335	P	V
		5459.76	40.89	-13.11	54	29.94	32.63	11.34	33.02	105	335	A	V

802.11n HT20 CH 48 5240MHz		5072.28	51.69	-22.31	74	41.4	32.12	11.21	33.04	294	350	P	H
		5150	42.62	-11.38	54	32.26	32.21	11.18	33.03	294	350	A	H
	*	5240	113.57	-	-	103.08	32.33	11.19	33.03	294	350	P	H
	*	5240	106.02	-	-	95.53	32.33	11.19	33.03	294	350	A	H
		5414.88	51.22	-22.78	74	40.35	32.58	11.31	33.02	294	350	P	H
		5395.44	42.36	-11.64	54	31.51	32.56	11.31	33.02	294	350	A	H
		5048.62	52.37	-21.63	74	42.12	32.07	11.22	33.04	100	335	P	V
		5046.02	41.55	-12.45	54	31.3	32.07	11.22	33.04	100	335	A	V
	*	5240	107.42	-	-	96.93	32.33	11.19	33.03	100	335	P	V
	*	5240	99.58	-	-	89.09	32.33	11.19	33.03	100	335	A	V
		5427.12	50.38	-23.62	74	39.48	32.58	11.34	33.02	100	335	P	V
		5459.76	40.84	-13.16	54	29.89	32.63	11.34	33.02	100	335	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	39.37	-34.63	74	35.59	39.84	15.02	51.08	100	0	P	H
		15540	38.38	-35.62	74	33.81	38.21	18.16	51.8	100	0	P	H
													H
													H
		10360	38.66	-35.34	74	34.88	39.84	15.02	51.08	100	0	P	V
		15540	38.34	-35.66	74	33.77	38.21	18.16	51.8	100	0	P	V
													V
													V
802.11n HT20 CH 44 5220MHz		10440	39.76	-34.24	74	35.92	39.92	15.08	51.16	100	0	P	H
		15660	39.47	-34.53	74	34.81	38.23	18.23	51.8	100	0	P	H
													H
													H
		10440	39.48	-34.52	74	35.64	39.92	15.08	51.16	100	0	P	V
		15660	39.59	-34.41	74	34.93	38.23	18.23	51.8	100	0	P	V
													V
													V
802.11n HT20 CH 48 5240MHz		10480	39.05	-34.95	74	35.16	39.98	15.11	51.2	100	0	P	H
		15720	39.13	-34.87	74	34.41	38.24	18.28	51.8	100	0	P	H
													H
													H
		10480	38.98	-35.02	74	35.09	39.98	15.11	51.2	100	0	P	V
		15720	38.6	-35.4	74	33.88	38.24	18.28	51.8	100	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 802.11a (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)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5084.5	52.1	-21.9	74	41.81	32.12	11.21	33.04	305	358	P	H
		5101.92	42.78	-11.22	54	32.49	32.14	11.19	33.04	305	358	A	H
	*	5260	113.23	-	-	102.7	32.37	11.19	33.03	305	358	P	H
	*	5260	104.59	-	-	94.06	32.37	11.19	33.03	305	358	A	H
		5416.08	52.29	-21.71	74	41.42	32.58	11.31	33.02	305	358	P	H
		5418.72	42.4	-11.6	54	31.53	32.58	11.31	33.02	305	358	A	H
		5018.46	50.76	-23.24	74	40.54	32.02	11.24	33.04	100	341	P	V
		5020.28	41.59	-12.41	54	31.39	32.02	11.22	33.04	100	341	A	V
	*	5260	106.2	-	-	95.67	32.37	11.19	33.03	100	341	P	V
	*	5260	98.3	-	-	87.77	32.37	11.19	33.03	100	341	A	V
		5452.32	51	-23	74	40.05	32.63	11.34	33.02	100	341	P	V
		5460	40.84	-13.16	54	29.89	32.63	11.34	33.02	100	341	A	V
802.11a CH 60 5300MHz		5139.1	51.38	-22.62	74	41.03	32.19	11.19	33.03	282	355	P	H
		5011.7	42.8	-11.2	54	32.58	32.02	11.24	33.04	282	355	A	H
	*	5300	113.74	-	-	103.13	32.42	11.22	33.03	282	355	P	H
	*	5300	104.63	-	-	94.02	32.42	11.22	33.03	282	355	A	H
		5351.28	54.57	-19.43	74	43.83	32.49	11.28	33.03	282	355	P	H
		5350.08	44.29	-9.71	54	33.55	32.49	11.28	33.03	282	355	A	H
		5140.14	51.14	-22.86	74	40.78	32.21	11.18	33.03	100	342	P	V
		5044.98	41.65	-12.35	54	31.4	32.07	11.22	33.04	100	342	A	V
	*	5300	104.89	-	-	94.28	32.42	11.22	33.03	100	342	P	V
	*	5300	97.17	-	-	86.56	32.42	11.22	33.03	100	342	A	V
		5453.28	51.64	-22.36	74	40.69	32.63	11.34	33.02	100	342	P	V
		5350.08	41.12	-12.88	54	30.38	32.49	11.28	33.03	100	342	A	V

802.11a CH 64 5320MHz	*	5320	112.29	-	-	101.63	32.44	11.25	33.03	315	357	P	H
	*	5320	103.67	-	-	93.01	32.44	11.25	33.03	315	357	A	H
		5351.84	60.38	-13.62	74	49.64	32.49	11.28	33.03	315	357	P	H
		5350.08	50.24	-3.76	54	39.5	32.49	11.28	33.03	315	357	A	H
													H
													H
	*	5320	104.68	-	-	94.02	32.44	11.25	33.03	102	344	P	V
	*	5320	96.07	-	-	85.41	32.44	11.25	33.03	102	344	A	V
		5352.16	53.46	-20.54	74	42.72	32.49	11.28	33.03	102	344	P	V
		5350.08	43.52	-10.48	54	32.78	32.49	11.28	33.03	102	344	A	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	39.49	-34.51	74	35.61	39.99	15.13	51.24	100	0	P	H
		15780	38.93	-35.07	74	34.17	38.26	18.3	51.8	100	0	P	H
													H
													H
		10520	38.98	-35.02	74	35.1	39.99	15.13	51.24	100	0	P	V
		15780	39.44	-34.56	74	34.68	38.26	18.3	51.8	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	38.32	-35.68	74	34.42	39.92	15.19	51.21	100	0	P	H
		15900	38.89	-35.11	74	34.04	38.28	18.37	51.8	100	0	P	H
													H
													H
		10600	38.85	-35.15	74	34.95	39.92	15.19	51.21	100	0	P	V
		15900	38.28	-35.72	74	33.43	38.28	18.37	51.8	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	38.59	-35.41	74	34.67	39.89	15.22	51.19	100	0	P	H
		15960	39.45	-34.55	74	34.54	38.29	18.42	51.8	100	0	P	H
													H
													H
		10640	38.83	-35.17	74	34.91	39.89	15.22	51.19	100	0	P	V
		15960	39.03	-34.97	74	34.12	38.29	18.42	51.8	100	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		5001.3	52.27	-21.73	74	42.07	32	11.24	33.04	306	352	P	H
		5101.66	43.01	-10.99	54	32.72	32.14	11.19	33.04	306	352	A	H
	*	5260	113.87	-	-	103.34	32.37	11.19	33.03	306	352	P	H
	*	5260	106.44	-	-	95.91	32.37	11.19	33.03	306	352	A	H
		5394.96	51.27	-22.73	74	40.42	32.56	11.31	33.02	306	352	P	H
		5416.08	42.99	-11.01	54	32.12	32.58	11.31	33.02	306	352	A	H
		5053.56	51.68	-22.32	74	41.43	32.07	11.22	33.04	108	339	P	V
		5097.5	41.58	-12.42	54	31.27	32.14	11.21	33.04	108	339	A	V
	*	5260	106.13	-	-	95.6	32.37	11.19	33.03	108	339	P	V
	*	5260	99	-	-	88.47	32.37	11.19	33.03	108	339	A	V
		5384.64	49.78	-24.22	74	38.95	32.54	11.31	33.02	108	339	P	V
		5458.56	40.9	-13.1	54	29.95	32.63	11.34	33.02	108	339	A	V
802.11n HT20 CH 60 5300MHz		5002.86	53.43	-20.57	74	43.23	32	11.24	33.04	284	352	P	H
		5022.62	42.88	-11.12	54	32.65	32.05	11.22	33.04	284	352	A	H
	*	5300	114.11	-	-	103.5	32.42	11.22	33.03	284	352	P	H
	*	5300	106.63	-	-	96.02	32.42	11.22	33.03	284	352	A	H
		5351.28	56.74	-17.26	74	46	32.49	11.28	33.03	284	352	P	H
		5350.08	45.55	-8.45	54	34.81	32.49	11.28	33.03	284	352	A	H
		5131.3	51.35	-22.65	74	41	32.19	11.19	33.03	103	337	P	V
		5024.18	41.6	-12.4	54	31.37	32.05	11.22	33.04	103	337	A	V
	*	5300	106.46	-	-	95.85	32.42	11.22	33.03	103	337	P	V
	*	5300	98.5	-	-	87.89	32.42	11.22	33.03	103	337	A	V
		5400	51.46	-22.54	74	40.61	32.56	11.31	33.02	103	337	P	V
		5350.32	40.99	-13.01	54	30.25	32.49	11.28	33.03	103	337	A	V

	*	5320	112.34	-	-	101.68	32.44	11.25	33.03	303	352	P	H
	*	5320	104.81	-	-	94.15	32.44	11.25	33.03	303	352	A	H
		5350.56	62.65	-11.35	74	51.91	32.49	11.28	33.03	303	352	P	H
		5350.08	50.65	-3.35	54	39.91	32.49	11.28	33.03	303	352	A	H
802.11n													H
HT20													H
CH 64	*	5320	104.13	-	-	93.47	32.44	11.25	33.03	108	342	P	V
5320MHz	*	5320	96.83	-	-	86.17	32.44	11.25	33.03	108	342	A	V
		5350.4	55.55	-18.45	74	44.81	32.49	11.28	33.03	108	342	P	V
		5350.08	43.75	-10.25	54	33.01	32.49	11.28	33.03	108	342	A	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	40.08	-33.92	74	36.2	39.99	15.13	51.24	100	0	P	H
		15780	38.47	-35.53	74	33.71	38.26	18.3	51.8	100	0	P	H
													H
													H
		10520	38.18	-35.82	74	34.3	39.99	15.13	51.24	100	0	P	V
		15780	39.45	-34.55	74	34.69	38.26	18.3	51.8	100	0	P	V
													V
													V
802.11n HT20 CH 60 5300MHz		10600	38.99	-35.01	74	35.09	39.92	15.19	51.21	100	0	P	H
		15900	39.4	-34.6	74	34.55	38.28	18.37	51.8	100	0	P	H
													H
													H
		10600	39.03	-34.97	74	35.13	39.92	15.19	51.21	100	0	P	V
		15900	38.56	-35.44	74	33.71	38.28	18.37	51.8	100	0	P	V
													V
													V
802.11n HT20 CH 64 5320MHz		10640	39.27	-34.73	74	35.35	39.89	15.22	51.19	100	0	P	H
		15960	38.96	-35.04	74	34.05	38.29	18.42	51.8	100	0	P	H
													H
													H
		10640	38.78	-35.22	74	34.86	39.89	15.22	51.19	100	0	P	V
		15960	38.72	-35.28	74	33.81	38.29	18.42	51.8	100	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 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5458	56.74	-17.26	74	45.79	32.63	11.34	33.02	329	357	P	H
		5469.52	62.43	-5.77	68.2	51.42	32.65	11.38	33.02	329	357	P	H
		5460	46.96	-7.04	54	36.01	32.63	11.34	33.02	329	357	A	H
	*	5500	111.58	-	-	100.52	32.7	11.38	33.02	329	357	P	H
	*	5500	103.99	-	-	92.93	32.7	11.38	33.02	329	357	A	H
													H
		5424.88	51.14	-22.86	74	40.24	32.58	11.34	33.02	354	360	P	V
		5467.44	51.58	-16.62	68.2	40.57	32.65	11.38	33.02	354	360	P	V
		5460	41.65	-12.35	54	30.7	32.63	11.34	33.02	354	360	A	V
	*	5500	104.36	-	-	93.3	32.7	11.38	33.02	354	360	P	V
	*	5500	96.94	-	-	85.88	32.7	11.38	33.02	354	360	A	V
													V
802.11a CH 116 5580MHz		5452.24	52.16	-21.84	74	41.21	32.63	11.34	33.02	302	0	P	H
		5462.8	50.33	-17.87	68.2	39.32	32.65	11.38	33.02	302	0	P	H
		5422.48	42.54	-11.46	54	31.64	32.58	11.34	33.02	302	0	A	H
	*	5580	111.78	-	-	100.61	32.8	11.44	33.07	302	0	P	H
	*	5580	104.17	-	-	93	32.8	11.44	33.07	302	0	A	H
		5733.5	51.1	-17.1	68.2	39.78	33.01	11.46	33.15	302	0	P	H
		5424.88	50.39	-23.61	74	39.49	32.58	11.34	33.02	346	4	P	V
		5463.76	49.74	-18.46	68.2	38.73	32.65	11.38	33.02	346	4	P	V
		5443.6	41.12	-12.88	54	30.19	32.61	11.34	33.02	346	4	A	V
	*	5580	105.87	-	-	94.7	32.8	11.44	33.07	346	4	P	V
	*	5580	98.31	-	-	87.14	32.8	11.44	33.07	346	4	A	V
		5746.975	50.2	-18	68.2	38.85	33.04	11.46	33.15	346	4	P	V

802.11a CH 140 5700MHz	*	5700	111.38	-	-	100.06	32.97	11.47	33.12	309	1	P	H
	*	5700	103.43	-	-	92.11	32.97	11.47	33.12	309	1	A	H
		5729.16	61.59	-6.61	68.2	50.25	33.01	11.46	33.13	309	1	P	H
													H
													H
													H
	*	5700	105.75	-	-	94.43	32.97	11.47	33.12	389	360	P	V
	*	5700	98.61	-	-	87.29	32.97	11.47	33.12	389	360	A	V
		5725.32	55.71	-12.49	68.2	44.37	33.01	11.46	33.13	389	360	P	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	40.29	-33.71	74	36.23	39.6	15.49	51.03	100	0	P	H
		16500	40.92	-27.28	68.2	34.32	39.2	19.27	51.87	100	0	P	H
													H
													H
		11000	39.95	-34.05	74	35.89	39.6	15.49	51.03	100	0	P	V
		16500	40.6	-27.6	68.2	34	39.2	19.27	51.87	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	40.85	-33.15	74	36.9	39.43	15.61	51.09	100	0	P	H
		16740	42.41	-25.79	68.2	34.09	40.55	19.68	51.91	100	0	P	H
													H
													H
		11160	40.6	-33.4	74	36.65	39.43	15.61	51.09	100	0	P	V
		16740	42.31	-25.89	68.2	33.99	40.55	19.68	51.91	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	39.46	-34.54	74	35.66	39.2	15.79	51.19	100	0	P	H
		17100	45.87	-22.33	68.2	35.18	42.36	20.3	51.97	100	0	P	H
													H
													H
		11400	39.99	-34.01	74	36.19	39.2	15.79	51.19	100	0	P	V
		17100	44.74	-23.46	68.2	34.05	42.36	20.3	51.97	100	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		5459.92	57.62	-16.38	74	46.67	32.63	11.34	33.02	329	355	P	H
		5469.52	62.43	-5.77	68.2	51.42	32.65	11.38	33.02	329	355	P	H
		5460	46.45	-7.55	54	35.5	32.63	11.34	33.02	329	355	A	H
	*	5500	110.6	-	-	99.54	32.7	11.38	33.02	329	355	P	H
	*	5500	103.38	-	-	92.32	32.7	11.38	33.02	329	355	A	H
													H
		5452.24	51.03	-22.97	74	40.08	32.63	11.34	33.02	358	357	P	V
		5465.36	56.61	-11.59	68.2	45.6	32.65	11.38	33.02	358	357	P	V
		5460	42.24	-11.76	54	31.29	32.63	11.34	33.02	358	357	A	V
	*	5500	103.31	-	-	92.25	32.7	11.38	33.02	358	357	P	V
	*	5500	96.14	-	-	85.08	32.7	11.38	33.02	358	357	A	V
													V
802.11n HT20 CH 116 5580MHz		5415.52	52.74	-21.26	74	41.87	32.58	11.31	33.02	307	355	P	H
		5465.68	50.7	-17.5	68.2	39.69	32.65	11.38	33.02	307	355	P	H
		5421.04	42.51	-11.49	54	31.61	32.58	11.34	33.02	307	355	A	H
	*	5580	112.37	-	-	101.2	32.8	11.44	33.07	307	355	P	H
	*	5580	104.85	-	-	93.68	32.8	11.44	33.07	307	355	A	H
		5727.375	50.34	-17.86	68.2	39	33.01	11.46	33.13	307	355	P	H
		5451.52	51.05	-22.95	74	40.1	32.63	11.34	33.02	364	2	P	V
		5463.76	48.65	-19.55	68.2	37.64	32.65	11.38	33.02	364	2	P	V
		5456.08	41.12	-12.88	54	30.17	32.63	11.34	33.02	364	2	A	V
	*	5580	105.79	-	-	94.62	32.8	11.44	33.07	364	2	P	V
	*	5580	98.06	-	-	86.89	32.8	11.44	33.07	364	2	A	V
		5744.525	50.82	-17.38	68.2	39.47	33.04	11.46	33.15	364	2	P	V

802.11n HT20 CH 140 5700MHz	*	5700	110.29	-	-	98.97	32.97	11.47	33.12	308	355	P	H
	*	5700	102.76	-	-	91.44	32.97	11.47	33.12	308	355	A	H
		5727	63.72	-4.48	68.2	52.38	33.01	11.46	33.13	308	355	P	H
													H
													H
													H
	*	5700	105.56	-	-	94.24	32.97	11.47	33.12	388	360	P	V
	*	5700	98.03	-	-	86.71	32.97	11.47	33.12	388	360	A	V
		5729.64	56.83	-11.37	68.2	45.49	33.01	11.46	33.13	388	360	P	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 802.11n 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		11000	39.24	-34.76	74	35.18	39.6	15.49	51.03	100	0	P	H
		16500	40.58	-27.62	68.2	33.98	39.2	19.27	51.87	100	0	P	H
													H
													H
		11000	39.72	-34.28	74	35.66	39.6	15.49	51.03	100	0	P	V
		16500	40.61	-27.59	68.2	34.01	39.2	19.27	51.87	100	0	P	V
													V
													V
802.11n HT20 CH 116 5580MHz		11160	41.12	-32.88	74	37.17	39.43	15.61	51.09	100	0	P	H
		16740	41.91	-26.29	68.2	33.59	40.55	19.68	51.91	100	0	P	H
													H
													H
		11160	40.32	-33.68	74	36.37	39.43	15.61	51.09	100	0	P	V
		16740	41.9	-26.3	68.2	33.58	40.55	19.68	51.91	100	0	P	V
													V
													V
802.11n HT20 CH 140 5700MHz		11400	40.14	-33.86	74	36.34	39.2	15.79	51.19	100	0	P	H
		17100	44.5	-23.7	68.2	33.81	42.36	20.3	51.97	100	0	P	H
													H
													H
		11400	39.6	-34.4	74	35.8	39.2	15.79	51.19	100	0	P	V
		17100	44.05	-24.15	68.2	33.36	42.36	20.3	51.97	100	0	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 802.11a (LF @ 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 LF		31.35	23.76	-16.24	40	29.78	25.18	1.29	32.49	-	-	P	H
		111.27	17.97	-25.53	43.5	31.43	17.29	1.78	32.53	-	-	P	H
		261.66	19.6	-26.4	46	29.97	19.62	2.58	32.57	-	-	P	H
		649.3	28.12	-17.88	46	30.59	26.19	3.8	32.46	-	-	P	H
		894.3	31.98	-14.02	46	29.93	29.17	4.57	31.69	-	-	P	H
		953.1	33.73	-12.27	46	29.62	30.59	4.69	31.17	147	256	P	H
													H
													H
													H
													H
													H
													H
		30.54	35.92	-4.08	40	41.95	25.18	1.29	32.5	252	164	P	V
		48.9	27.75	-12.25	40	43.18	15.77	1.29	32.49	-	-	P	V
		105.6	16.45	-27.05	43.5	30.41	16.76	1.78	32.5	-	-	P	V
		677.3	28.5	-17.5	46	30.56	26.47	3.94	32.47	-	-	P	V
		826.4	31.48	-14.52	46	30.51	28.62	4.39	32.04	-	-	P	V
		911.8	32.72	-13.28	46	30.11	29.53	4.63	31.55	-	-	P	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	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

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 CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		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

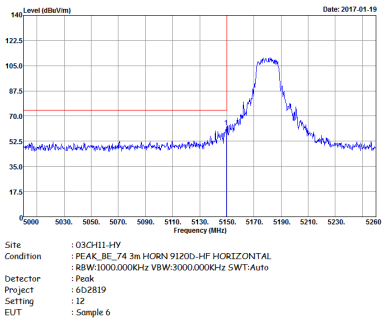
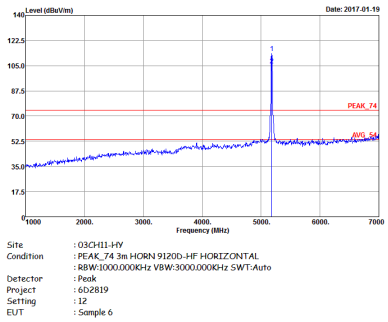
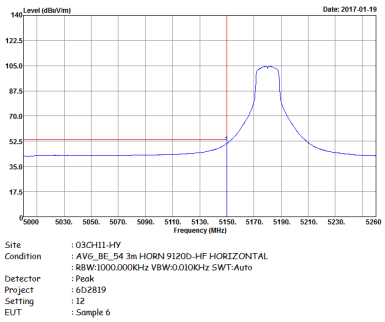
Test Engineer :	Ken Wu	**Temperature :**	20~23°C
		Relative Humidity :	50~54%

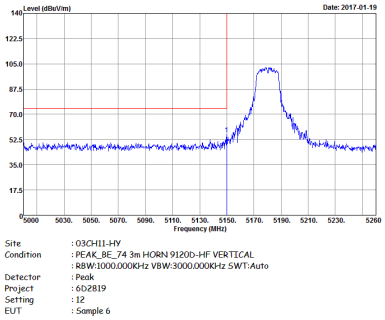
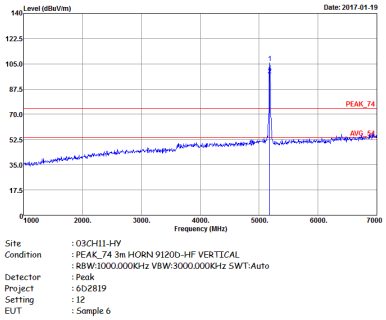
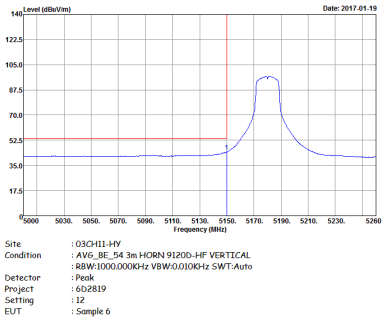
Note symbol

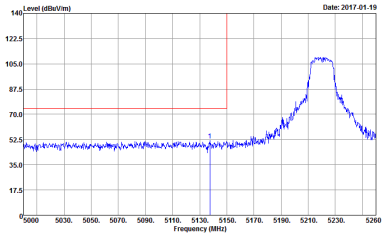
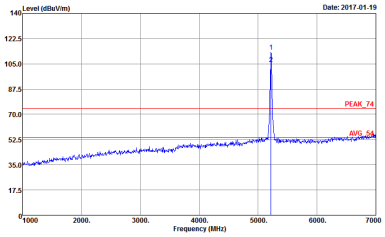
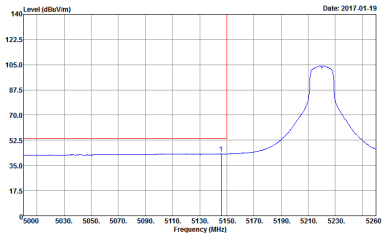
-L	**Low channel location**
-R	**High channel location**

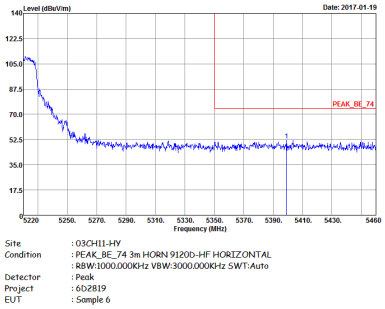
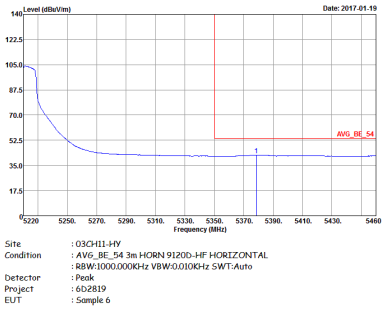
Band 1 - 5150~5250MHz

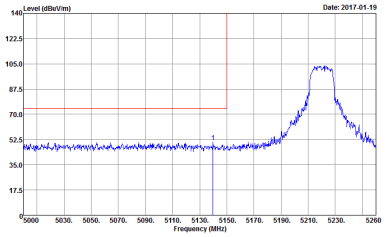
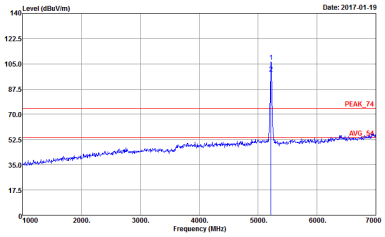
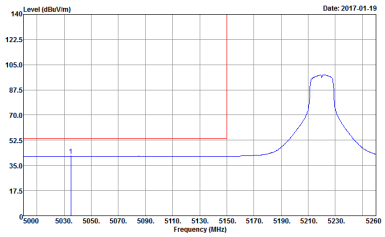
WIFI 802.11a (Band Edge @ 3m)

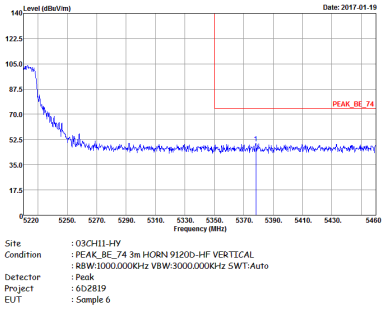
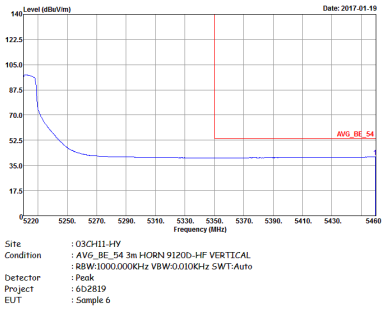
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

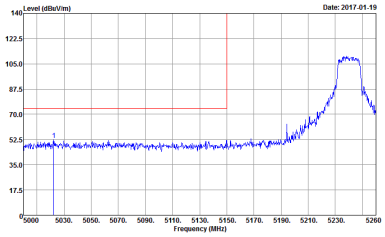
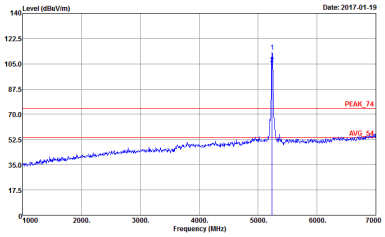
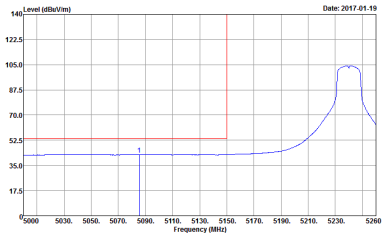
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

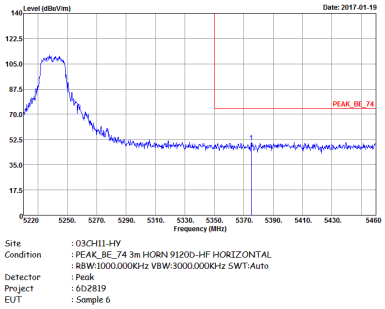
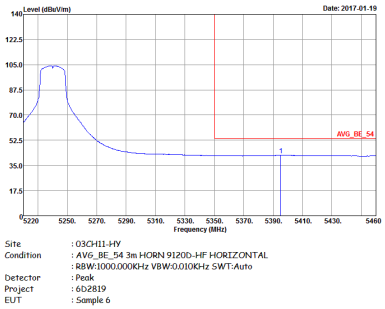
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank

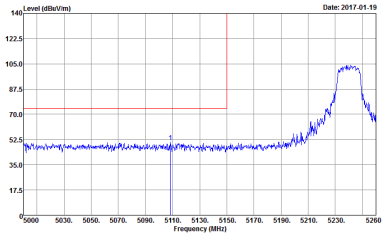
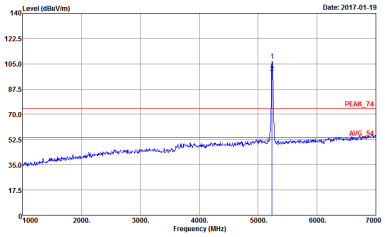
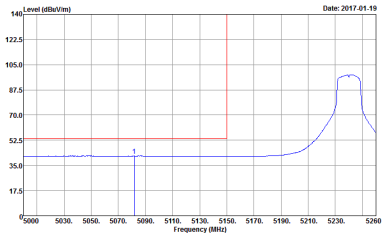
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

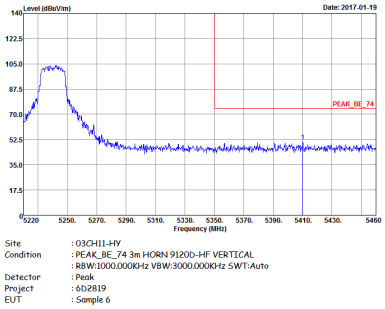
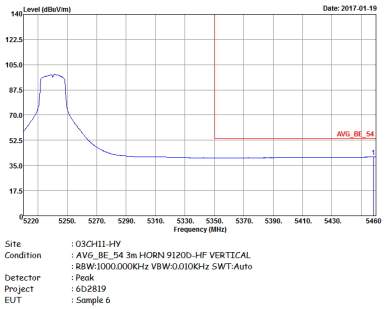
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank

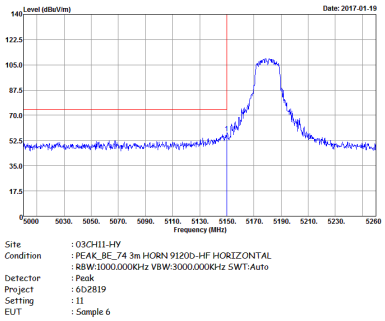
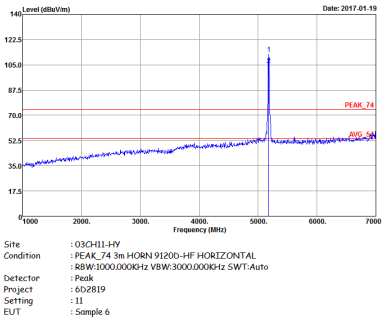
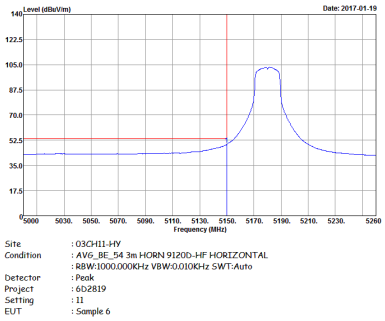
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

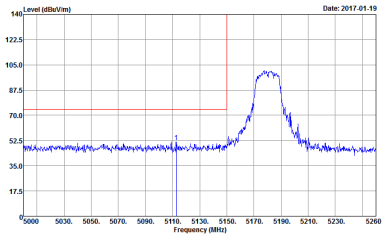
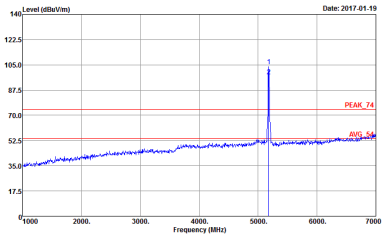
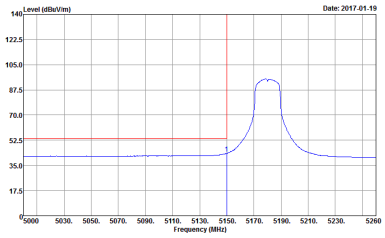
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank

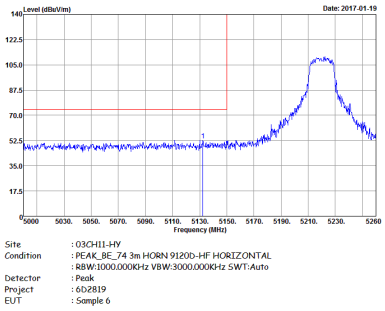
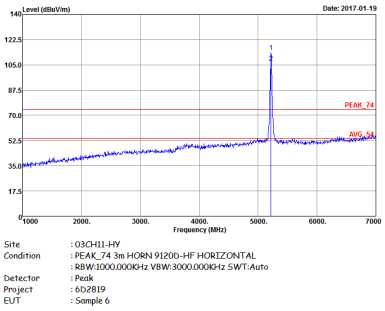
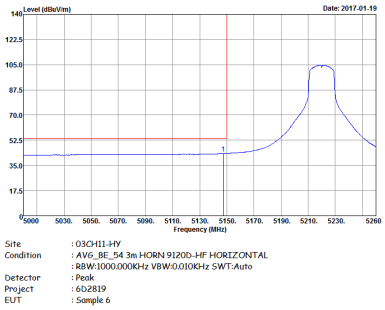
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

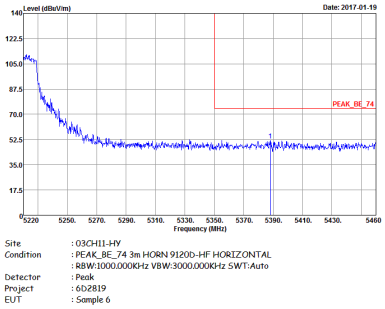
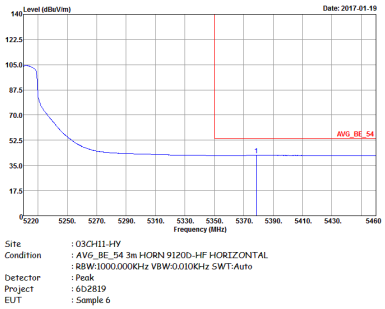
Band 1 5150~5250MHz

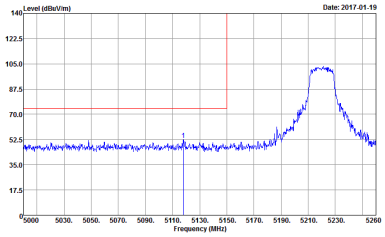
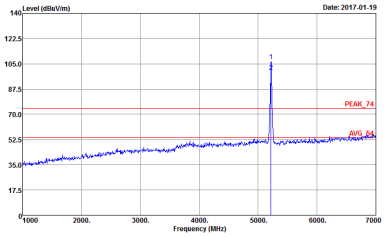
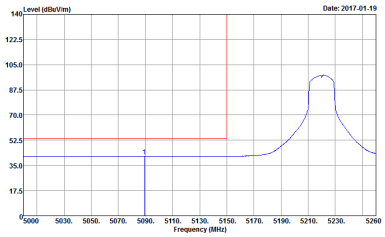
WIFI 802.11n HT20 (Band Edge @ 3m)

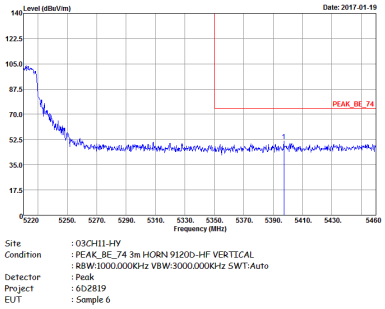
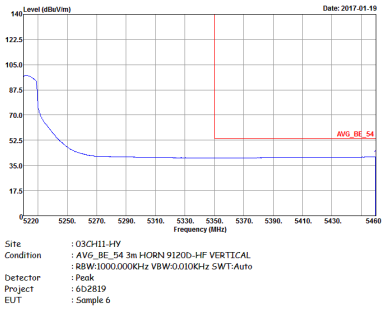
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

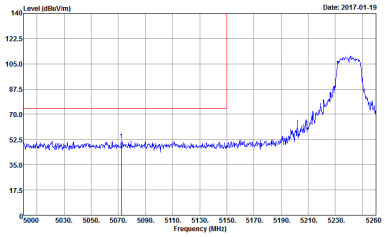
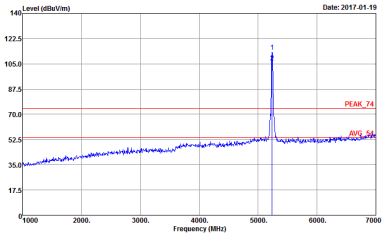
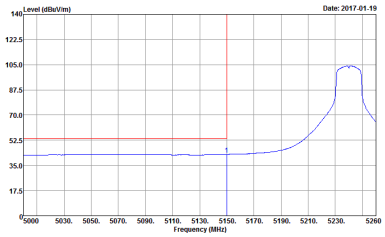
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 11 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 11 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 11 EUT : Sample 6	Left blank

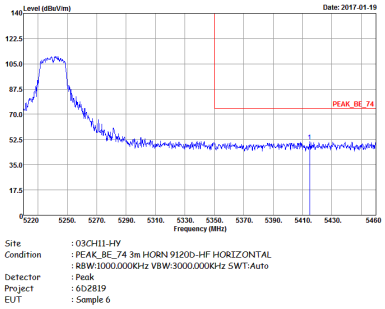
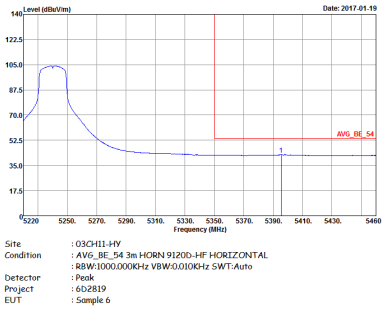
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

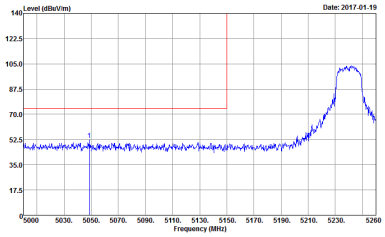
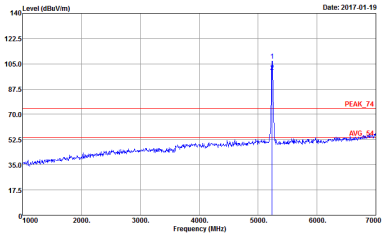
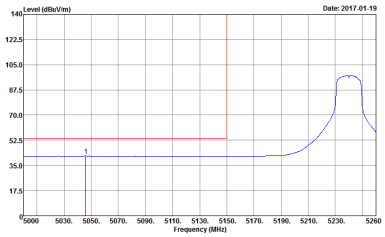
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

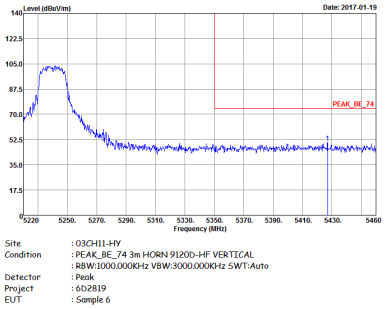
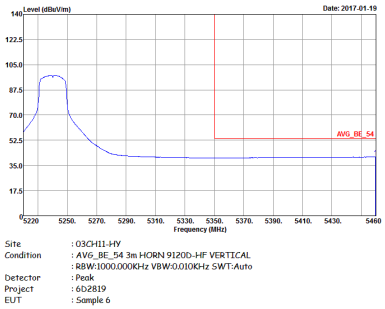
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

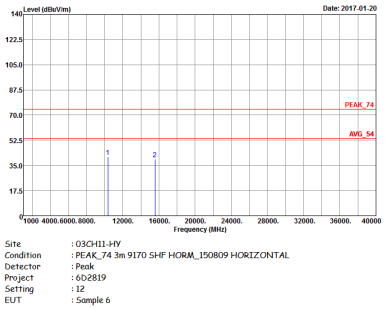
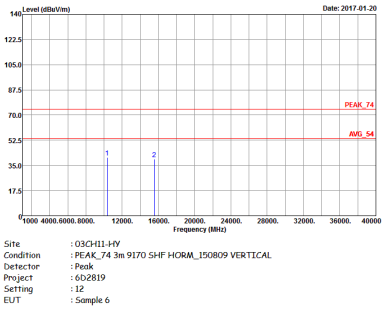
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank

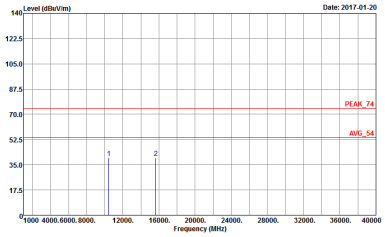
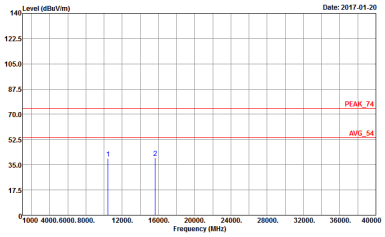
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

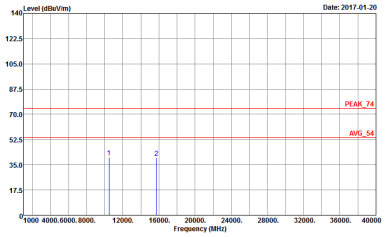
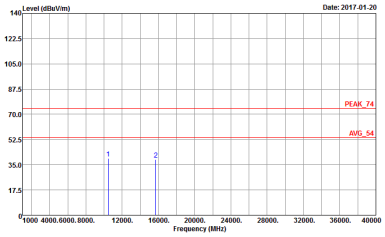
Band 1 5150~5250MHz

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

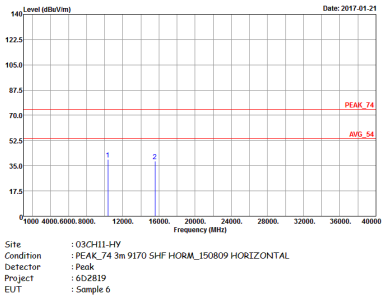
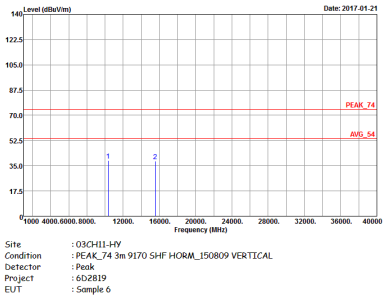
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

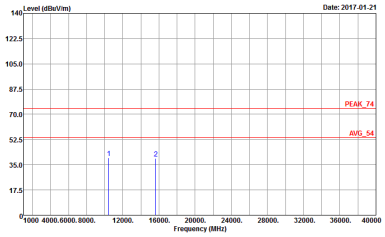
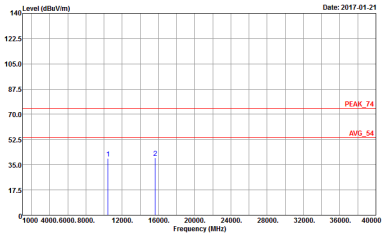
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 6D2819 EUT : Sample 6

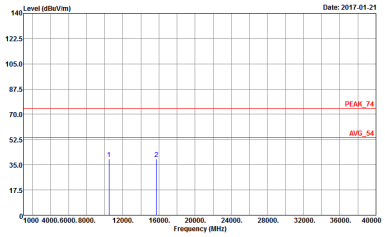
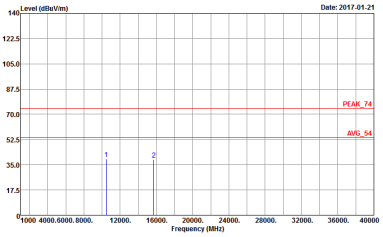
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 6D2819 EUT : Sample 6

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

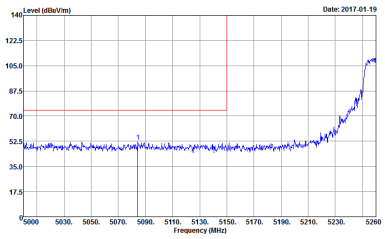
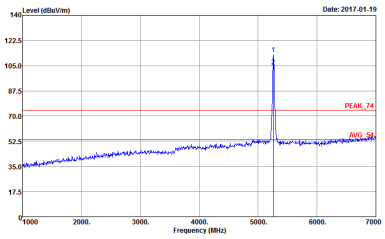
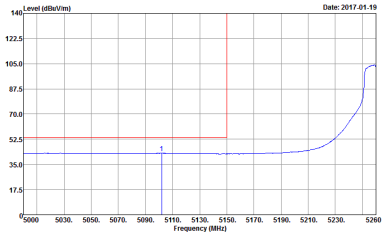
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

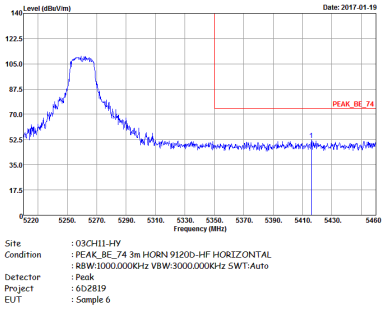
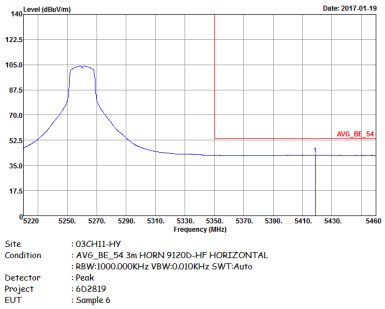
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 6D2819 EUT : Sample 6

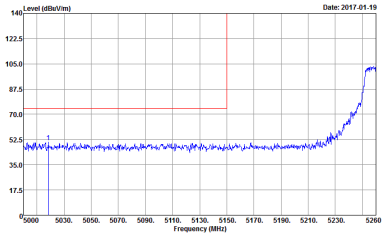
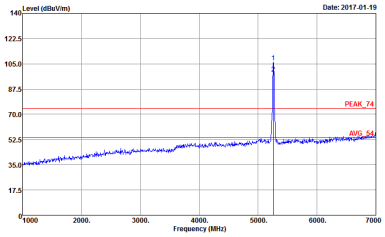
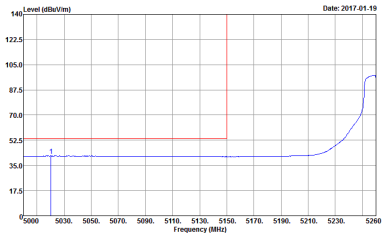
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 6D2819 EUT : Sample 6

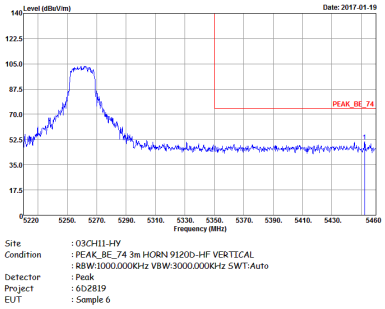
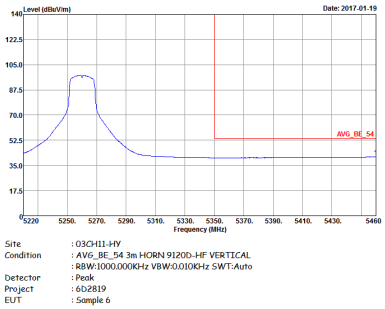
Band 2 - 5250~5350MHz

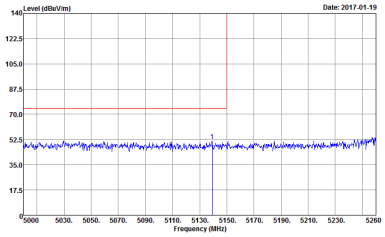
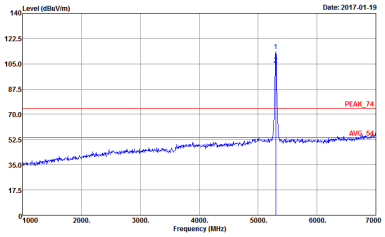
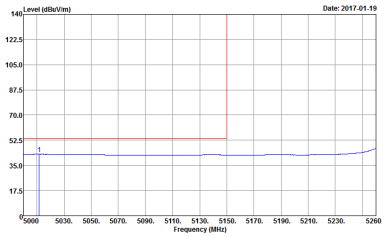
WIFI 802.11a (Band Edge @ 3m)

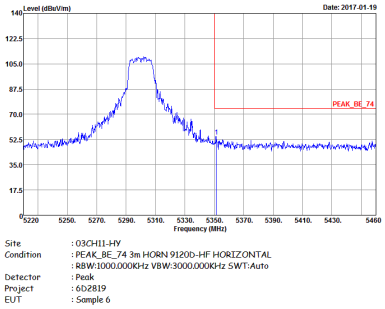
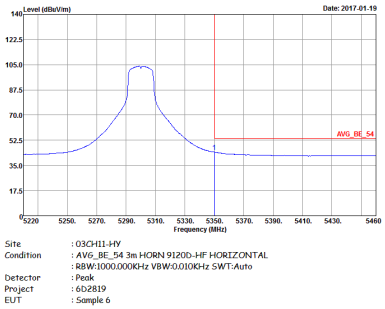
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank

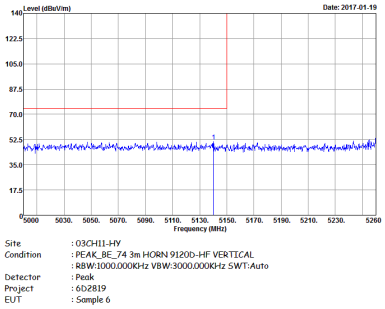
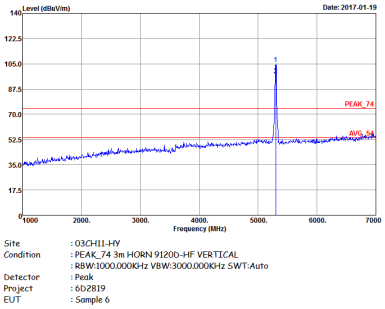
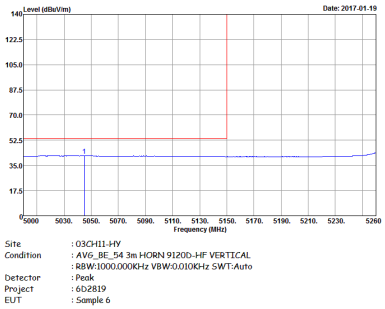
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

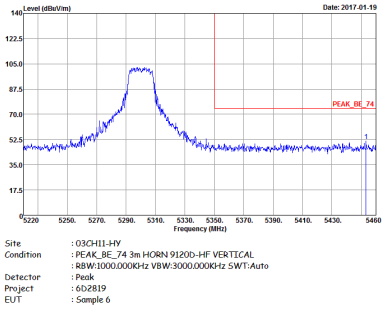
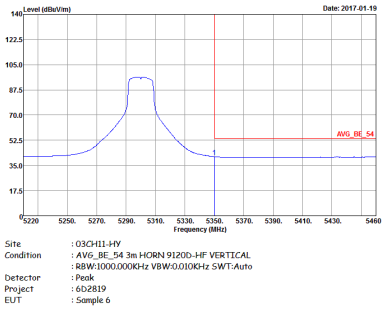
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank

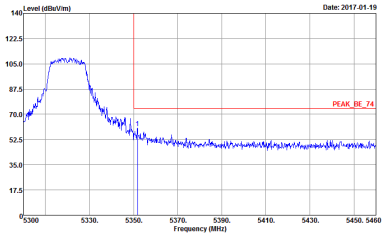
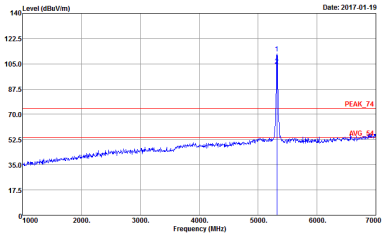
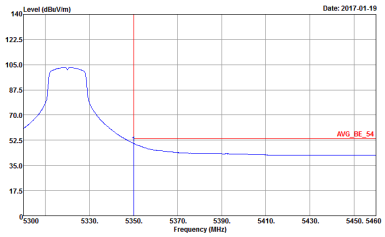
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

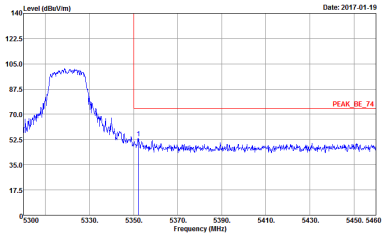
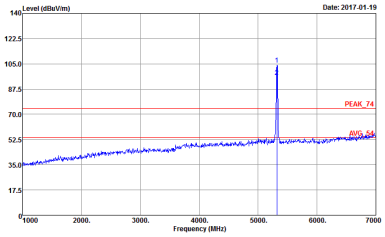
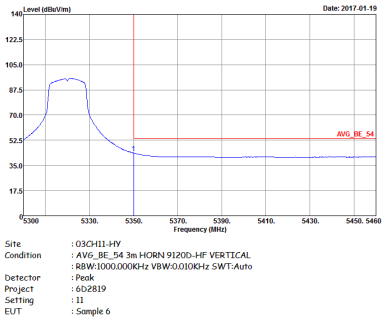
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

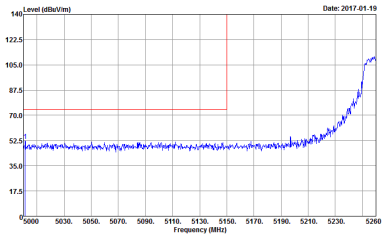
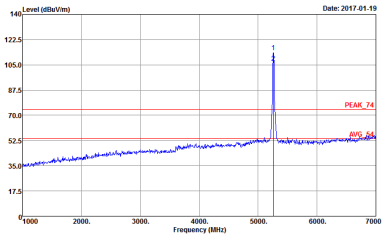
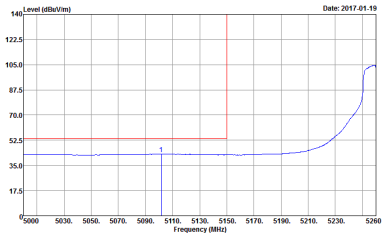
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

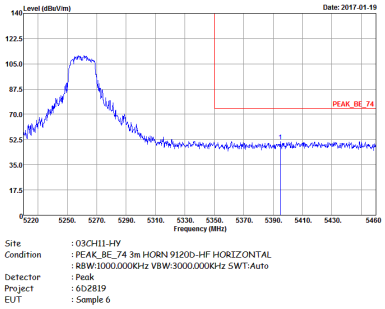
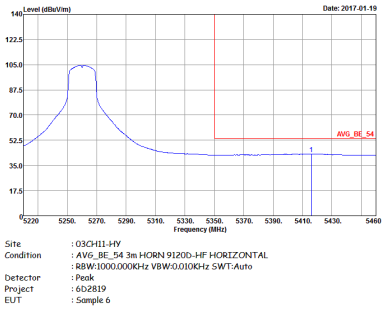
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 11 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 11 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 11 EUT : Sample 6	Left blank

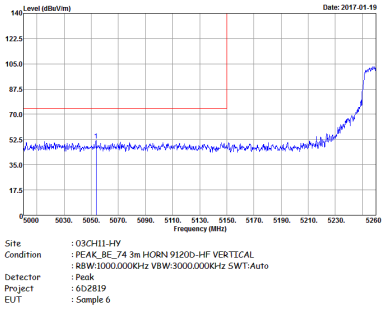
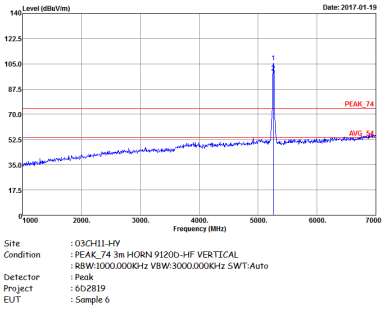
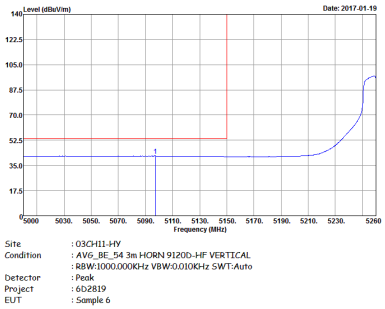
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

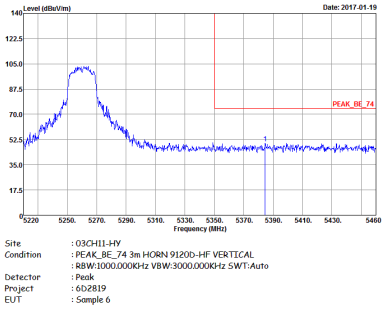
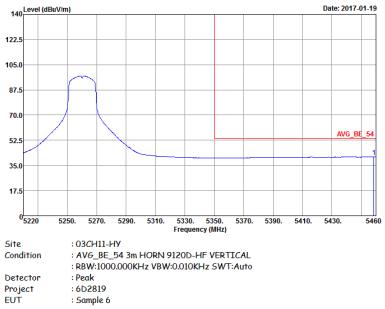
Band 2 5250~5350MHz

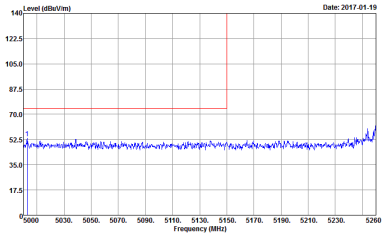
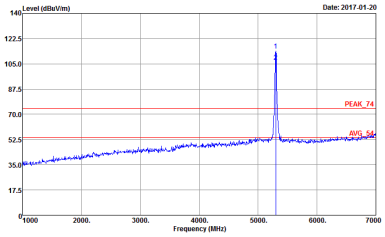
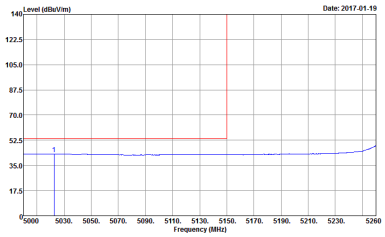
WIFI 802.11n HT20 (Band Edge @ 3m)

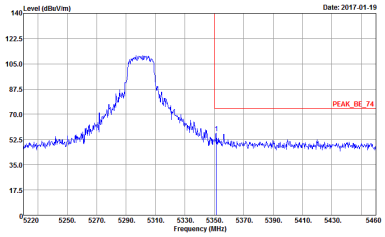
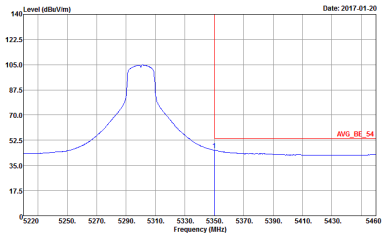
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank

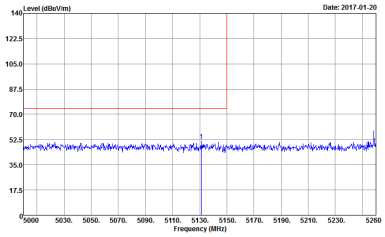
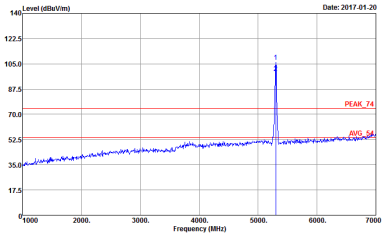
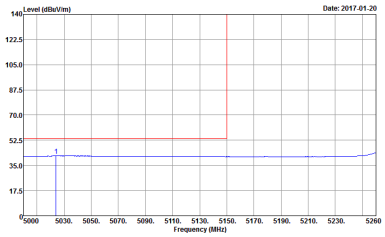
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

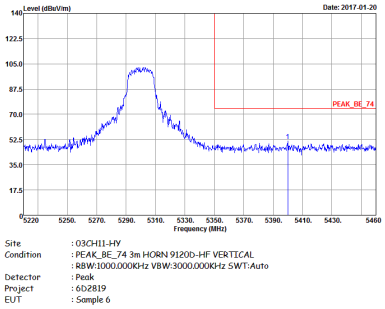
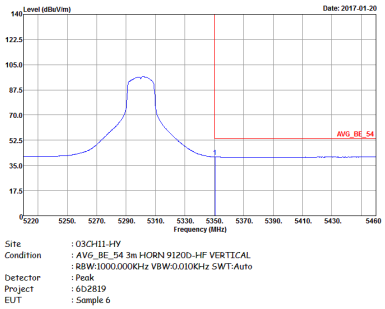
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

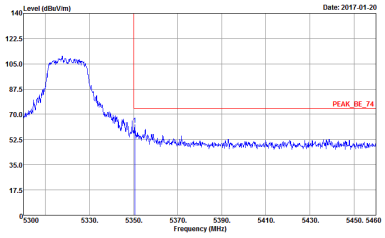
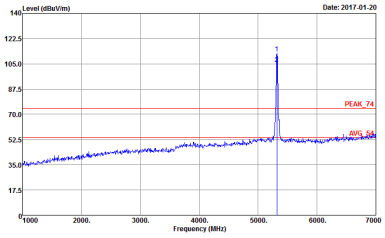
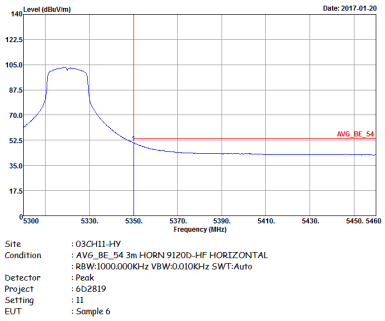
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

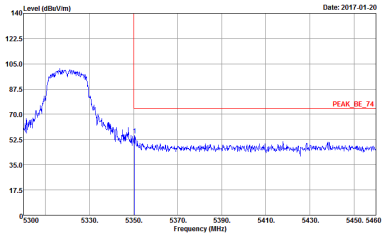
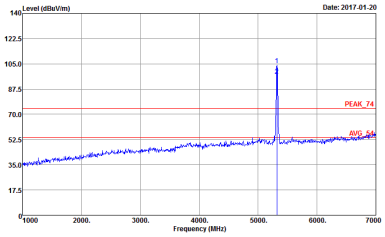
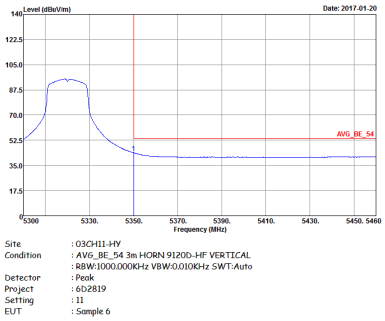
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	Left blank

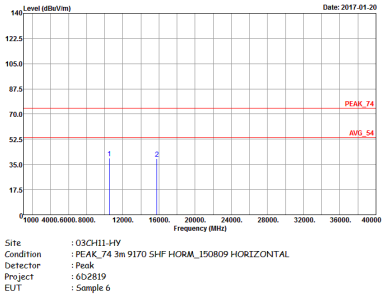
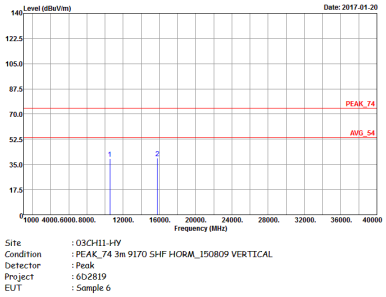
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

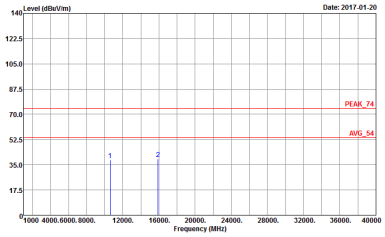
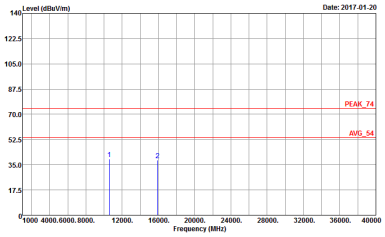
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

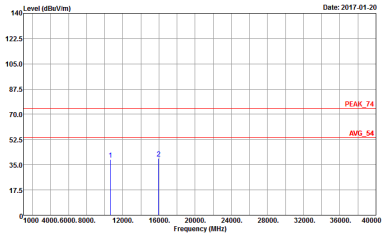
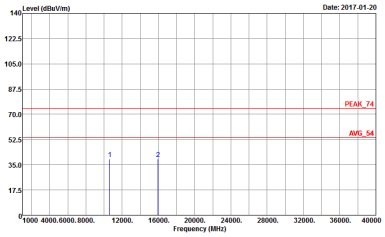
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

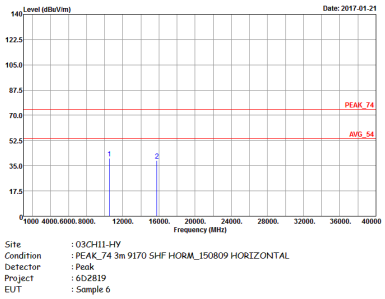
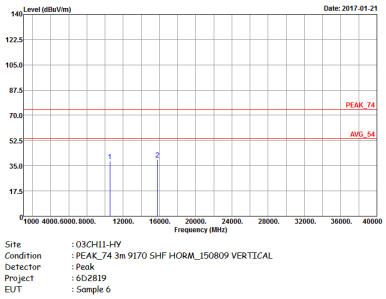
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

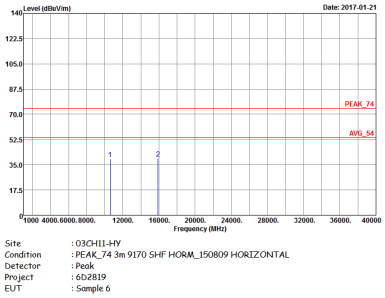
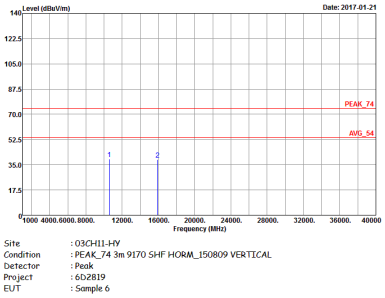
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 6D2819 EUT : Sample 6

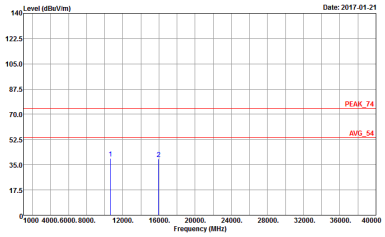
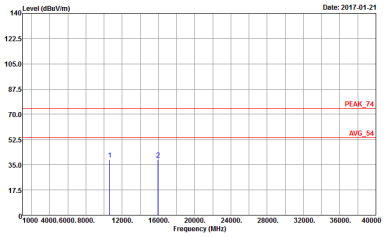
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 6D2819 Setting : 11 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 6D2819 Setting : 11 EUT : Sample 6

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

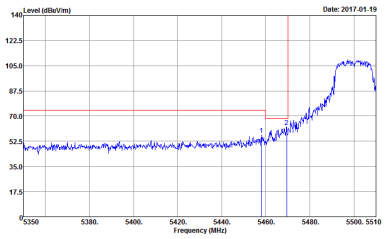
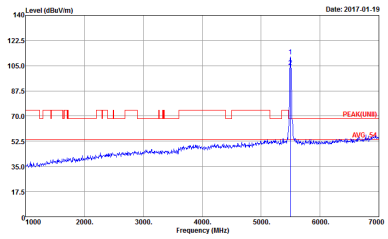
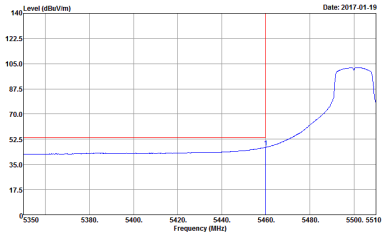
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

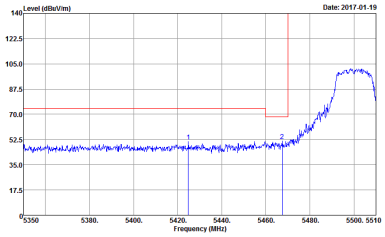
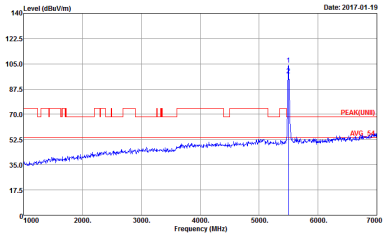
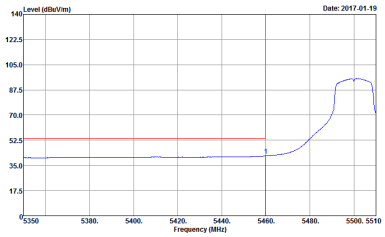
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.	 	

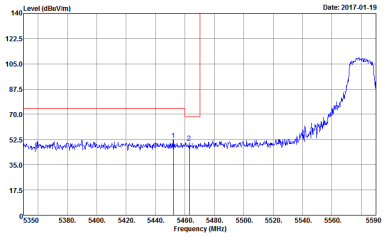
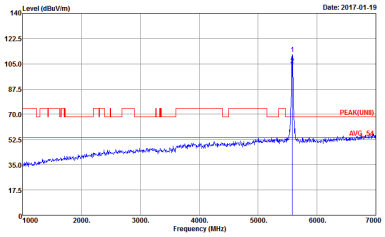
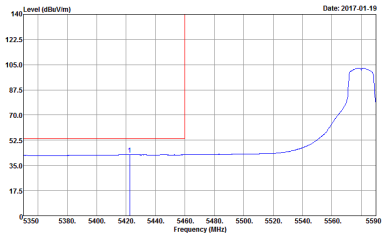
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 6D2819 EUT : Sample 6

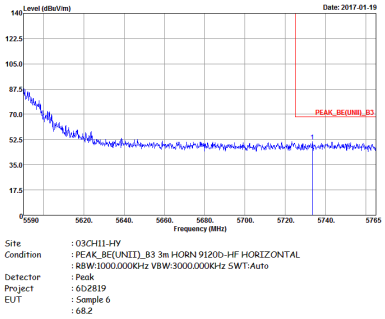
Band 3 - 5470~5725MHz

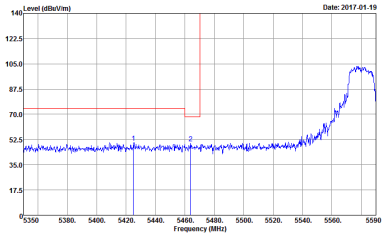
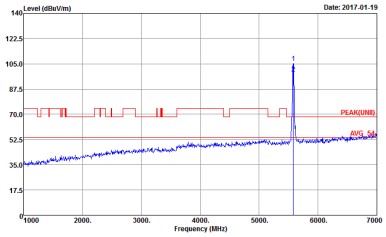
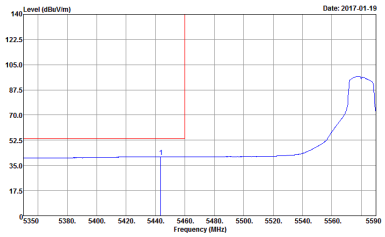
WIFI 802.11a (Band Edge @ 3m)

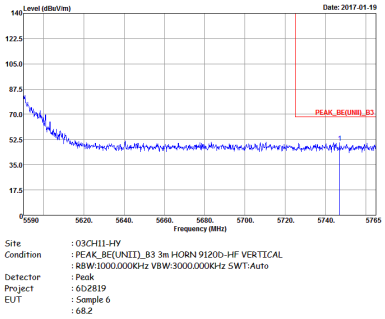
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 12 : 68.2 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 12 : 68.2 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 12 : 68.2 EUT : Sample 6	Left blank

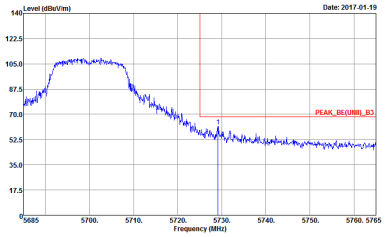
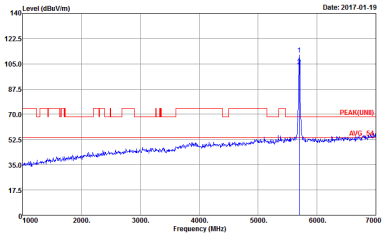
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 12 : 68.2 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 12 : 68.2 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 12 : 68.2 EUT : Sample 6	Left blank

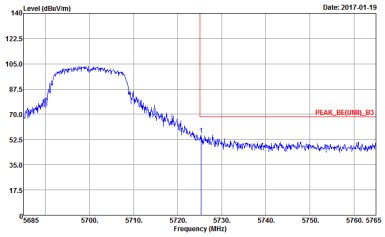
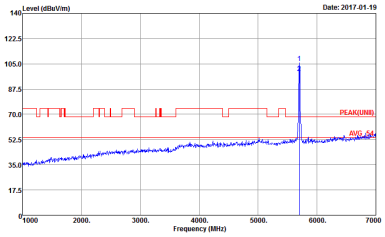
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6 : 68.2	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6 : 68.2
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6 : 68.2	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6 : 68.2	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6 : 68.2
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6 : 68.2	Left blank

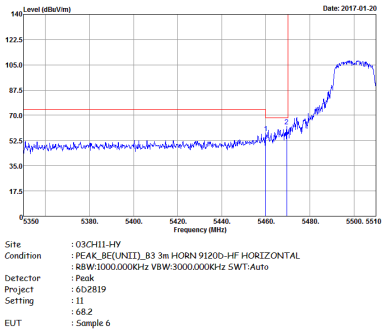
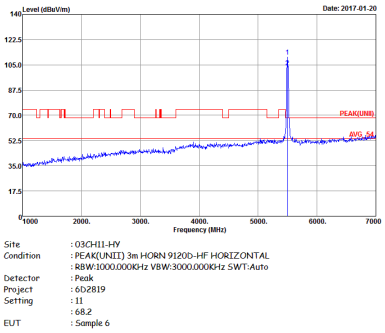
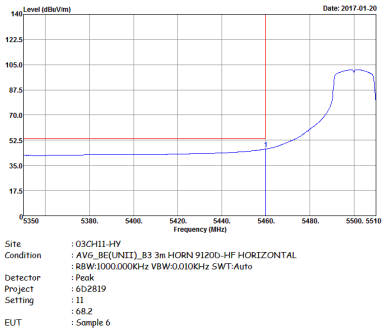
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

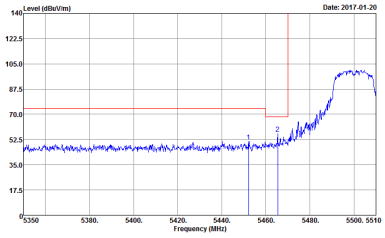
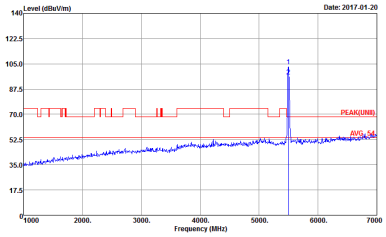
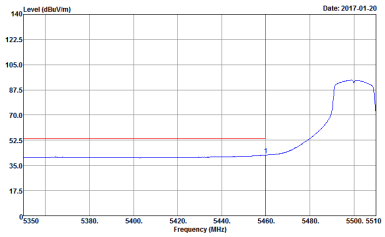
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6

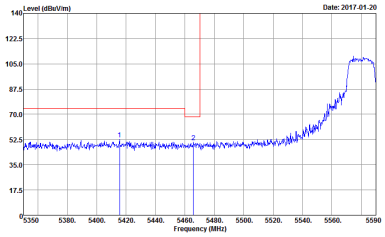
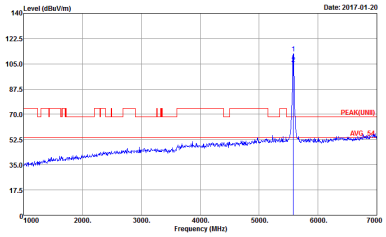
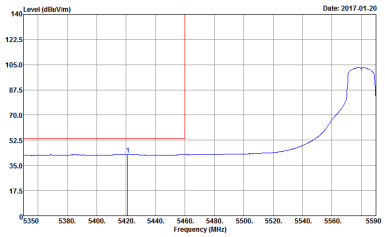
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 EUT : Sample 6

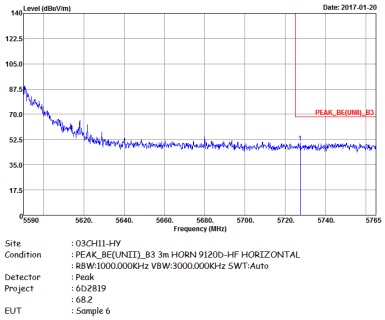
Band 3 5470~5725MHz

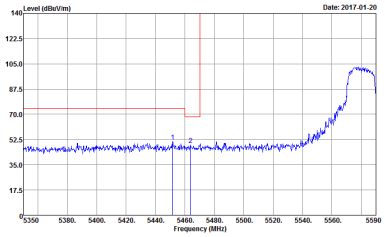
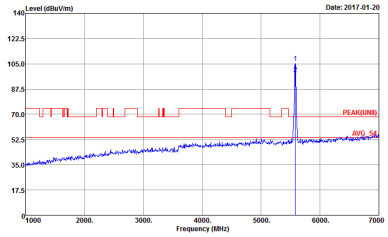
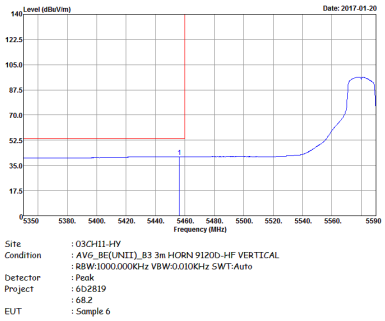
WIFI 802.11n HT20 (Band Edge @ 3m)

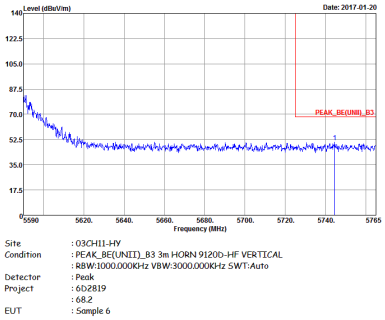
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

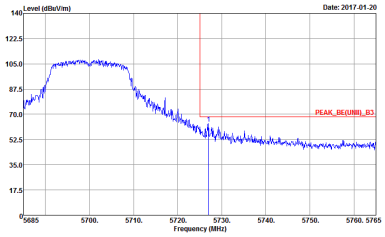
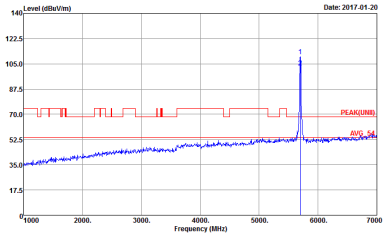
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 11 : 68.2 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 11 : 68.2 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 Setting : 11 : 68.2 EUT : Sample 6	Left blank

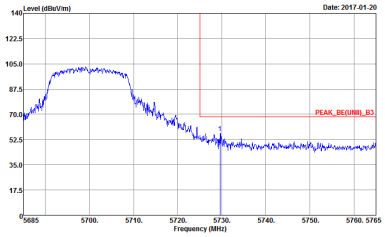
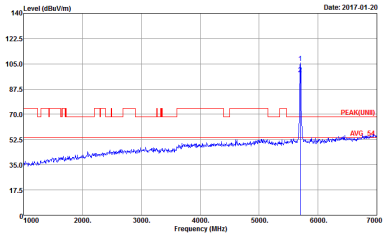
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 : 68.2 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6D2819 : 68.2 EUT : Sample 6
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6D2819 : 68.2 EUT : Sample 6	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

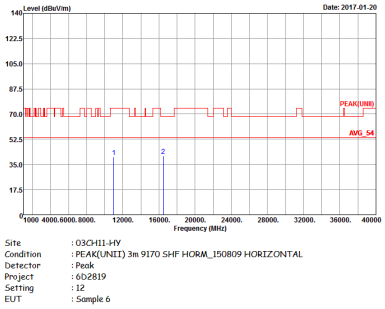
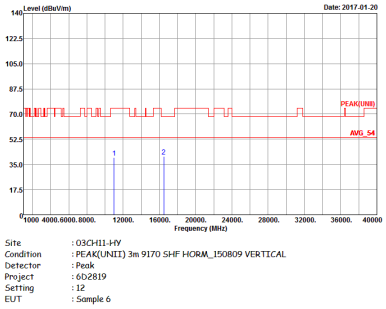
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

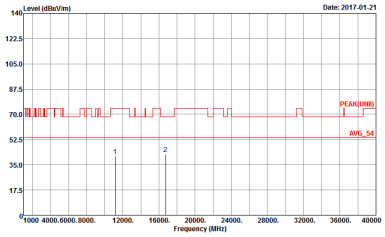
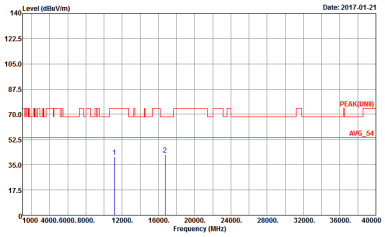
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

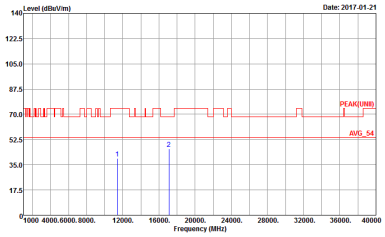
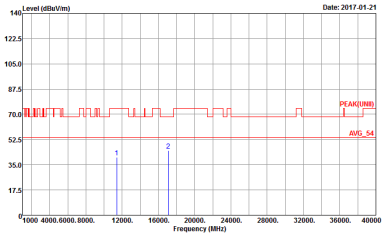
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.		

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

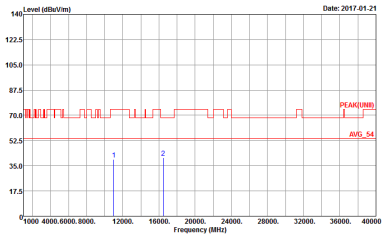
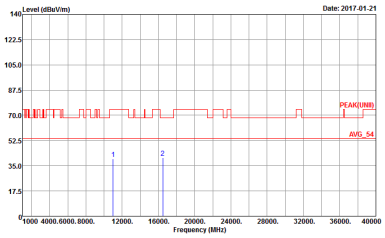
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

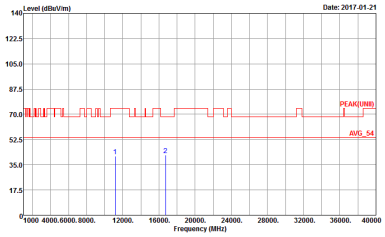
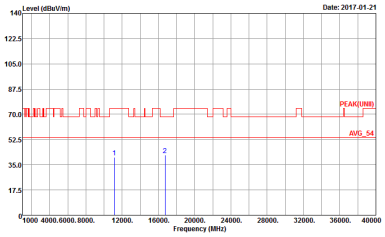
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 6D2819 EUT : Sample 6 : 68.2	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 6D2819 EUT : Sample 6 : 68.2

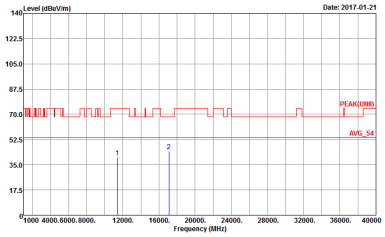
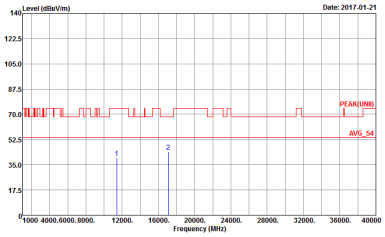
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 6D2819 EUT : Sample 6 : 68.2	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 6D2819 EUT : Sample 6 : 68.2

Band 3 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 6D2819 : 68.2 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 6D2819 : 68.2 EUT : Sample 6

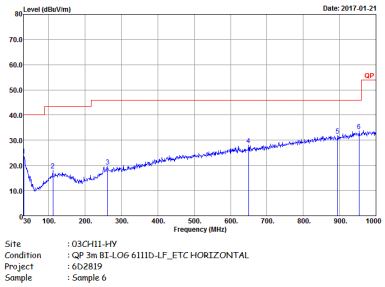
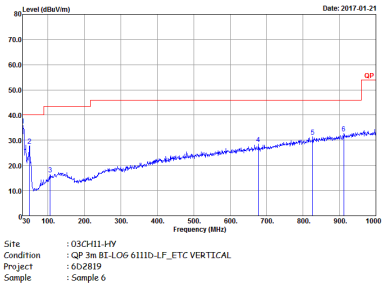
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 6D2819 : 68.2 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 6D2819 : 68.2 EUT : Sample 6

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 6D2819 : 68.2 EUT : Sample 6	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 6D2819 : 68.2 EUT : Sample 6

Band 3 5470~5725MHz

Emission below 1GHz

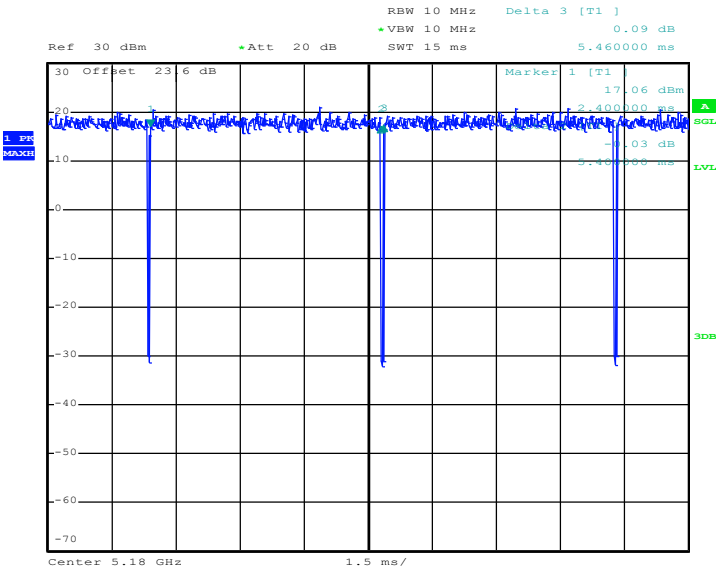
5GHz WIFI 802.11a (LF)

WIFI	5GHz WIFI	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak		

Appendix D. Duty Cycle Plots

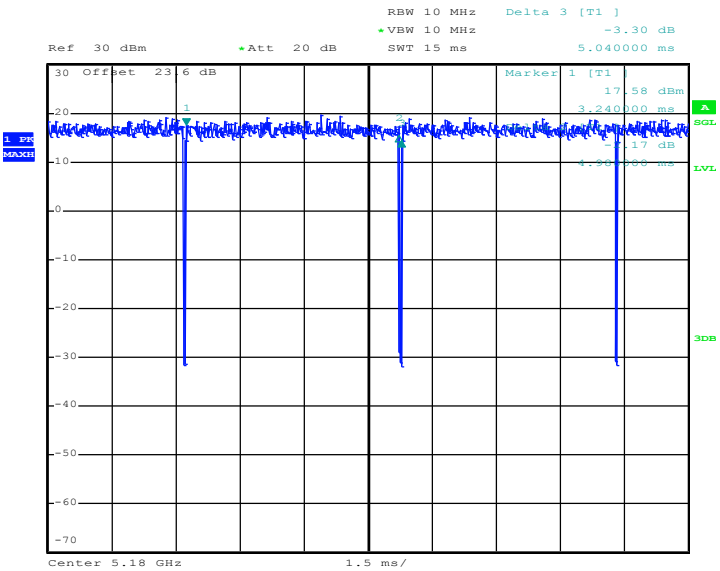
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	98.90	-	-	10Hz
5GHz 802.11n HT20	98.81	-	-	10Hz

802.11a



Date: 10.JAN.2017 11:52:39

802.11n HT20



Date: 10.JAN.2017 14:08:07