

FCC RF Test Report

APPLICANT : Ubiquiti Networks, Inc.
EQUIPMENT : airCube ISP
BRAND NAME : UBIQUITI
MODEL NAME : ACB-ISP
MARKETING NAME : ACB-ISP
FCC ID : SWX-ACBISP
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Mar. 17, 2017 and testing was completed on May 02, 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



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
FR741927	Rev. 01	Initial issue of report	May 19, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Pass	-
3.2	15.247(b)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 0.20 dB at 2483.520 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 11.80 dB at 0.150 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

Ubiquiti Networks, Inc.
2580 Orchard Parkway San Jose, CA 95131

1.2 Manufacturer

Ubiquiti Networks, Inc.
2580 Orchard Parkway San Jose, CA 95131

1.3 Product Feature of Equipment Under Test

Wi-Fi 2.4GHz 802.11b/g/n

Product Specification subjective to this standard	
Antenna Type	WLAN Ant. 1: Internal Antenna WLAN Ant. 2: Internal Antenna

1.4 Modification of EUT

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

1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	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.	
	03CH12-HY	

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



1.6 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ 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

- a. 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: conduction emission (150 kHz to 30 MHz), radiation 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.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

2.2 Test Mode

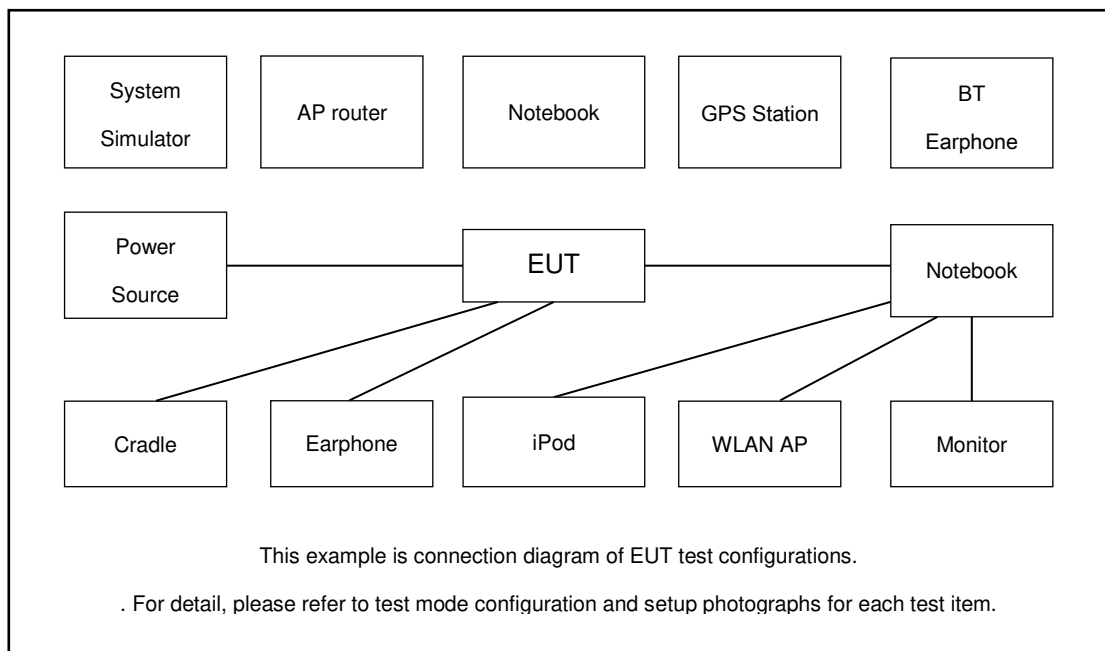
Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

MIMO Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN Tx + LAN Link + USB Cable (Charging from Notebook)

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	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
3.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

The RF test items, programmed RF utility, "CMD" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.



2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example:

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

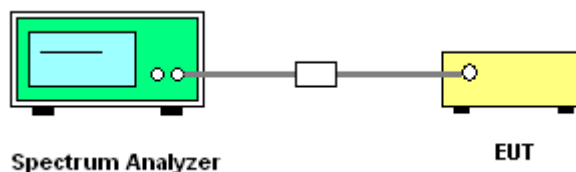
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1MHz and set the Video bandwidth (VBW) = 3MHz.
6. Measure and record the results in the test report.

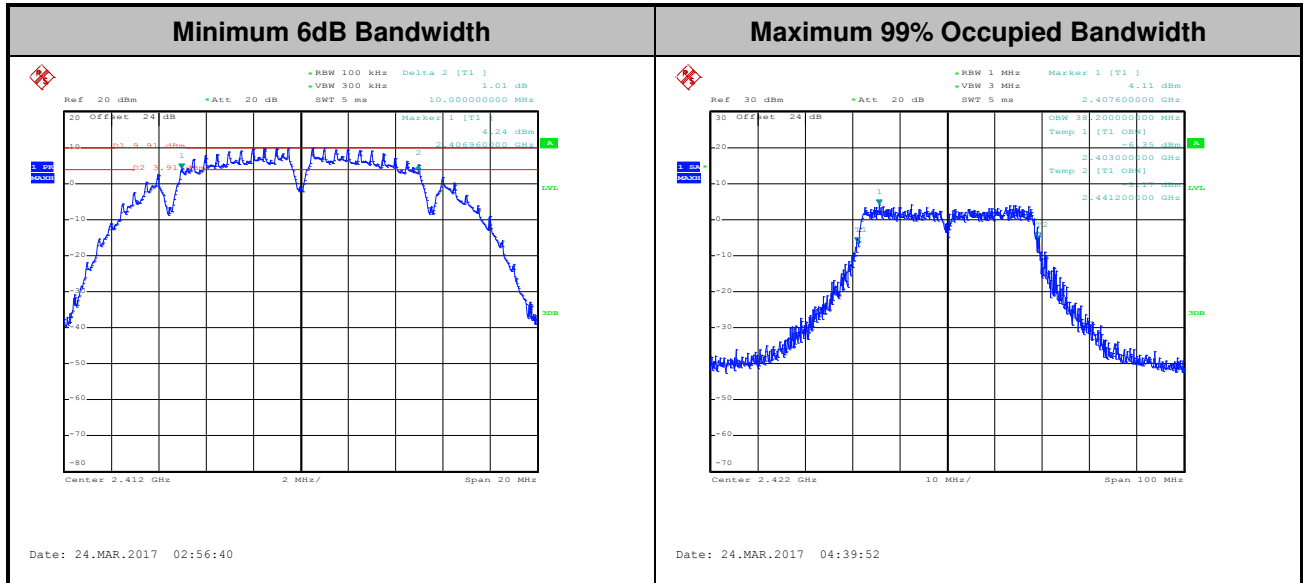
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



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

3.2 Peak Output Power Measurement

3.2.1 Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

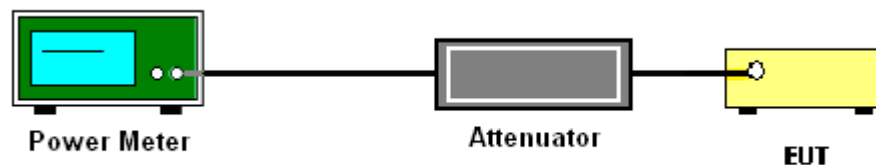
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04 section 9.1.2 PKPM1 Peak power meter method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

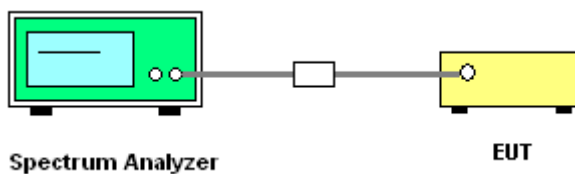
If measurements performed using method (2) plus $10 \log(N)$ exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

Method (1): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

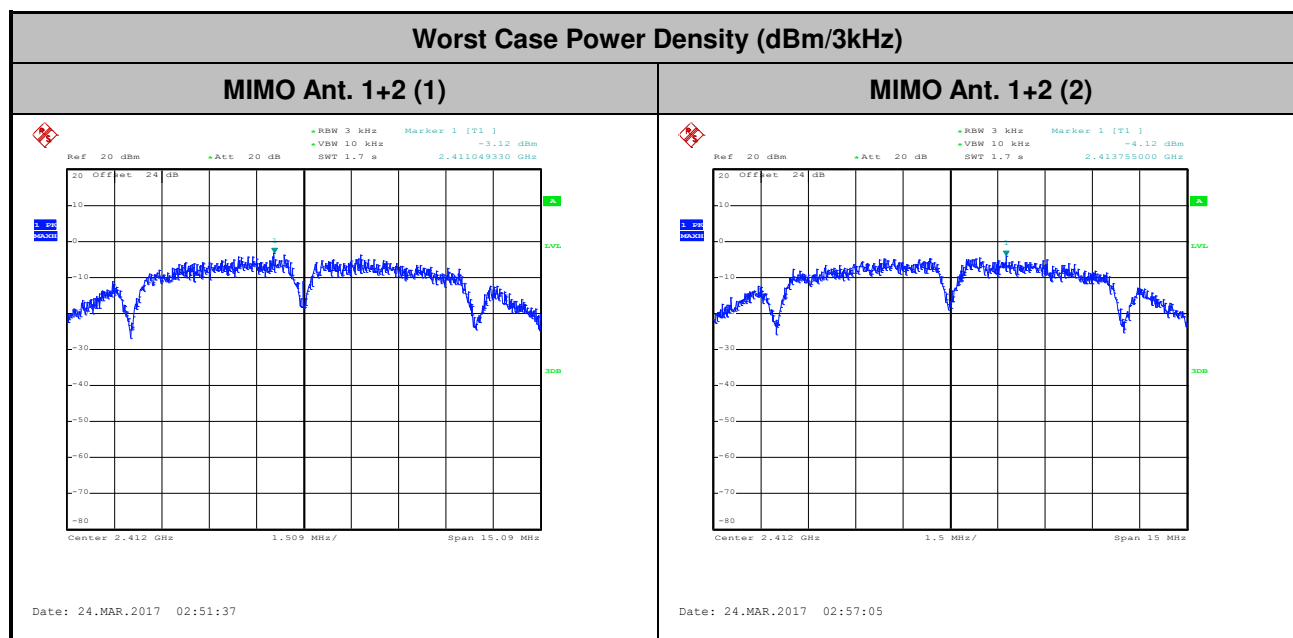
Method (2): Measure and add $10 \log(N)$ dB, where N is the number of outputs. (N=2)

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

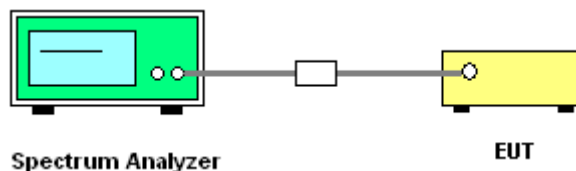
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup





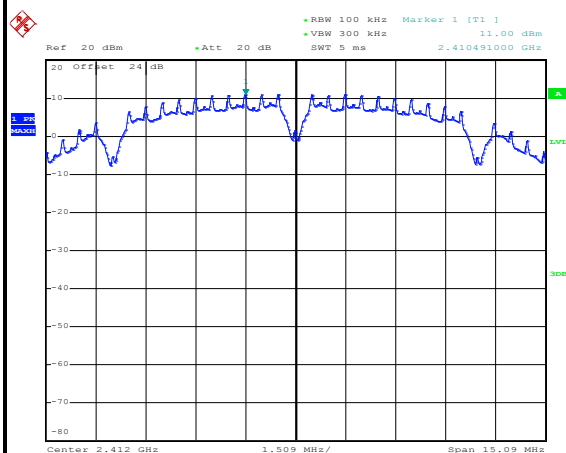
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Number of TX = 2, Ant. 1 (Measured)

Number of TX	2	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Derek Hsu

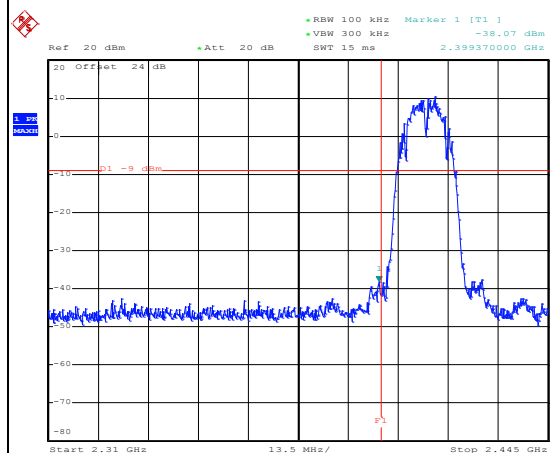
WLAN 802.11b Channel 01

100kHz PSD reference Level



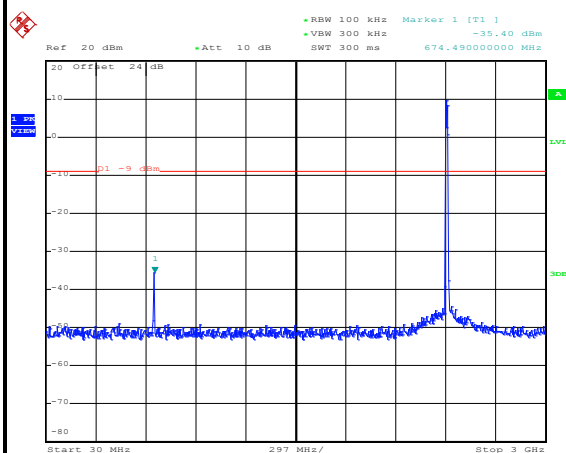
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Low Channel Plot



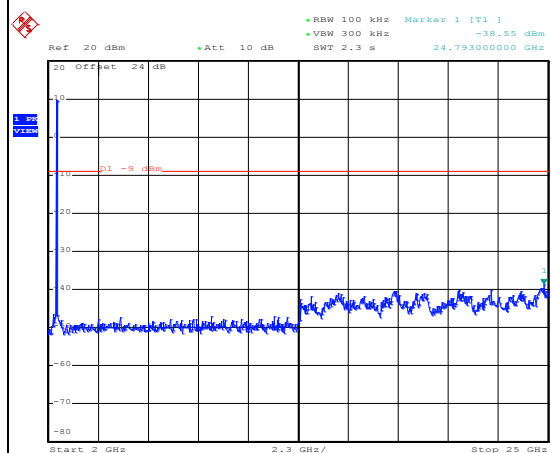
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Spurious Emission 30MHz~3GHz



Date: 24.MAR.2017 02:53:39

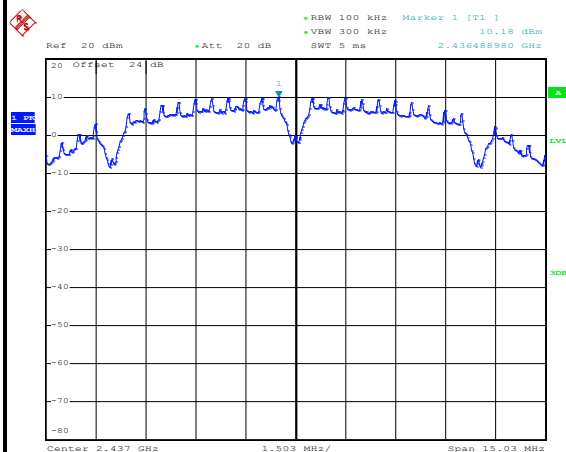
Spurious Emission 2GHz~25GHz



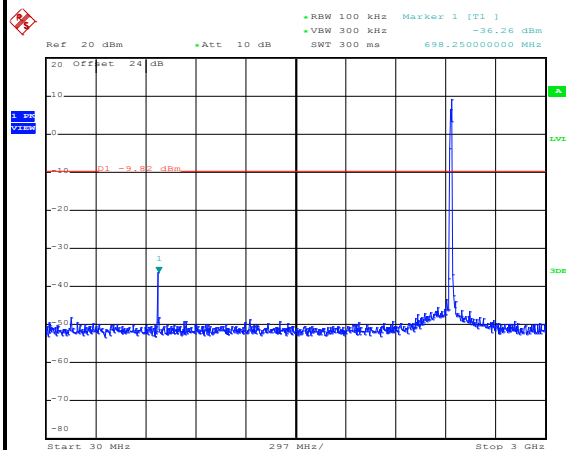
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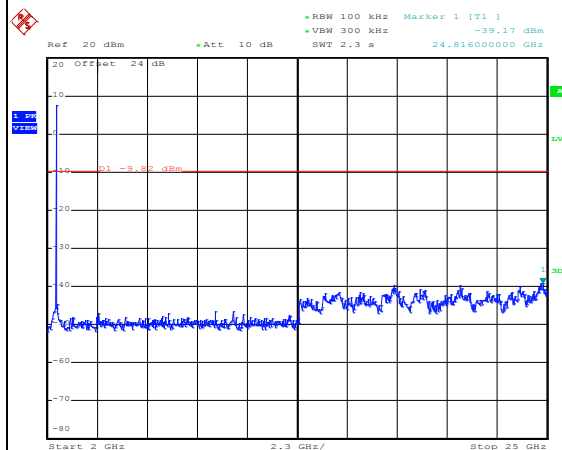
Number of TX :	2	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Derek Hsu

WLAN 802.11b Channel 06**100kHz PSD reference Level****Mid Channel Plot**

Date: 24.MAR.2017 03:03:02

Spurious Emission 30MHz~3GHz**Spurious Emission 2GHz~25GHz**

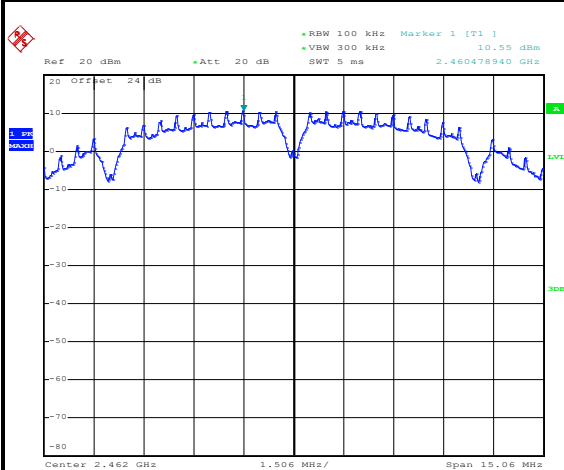
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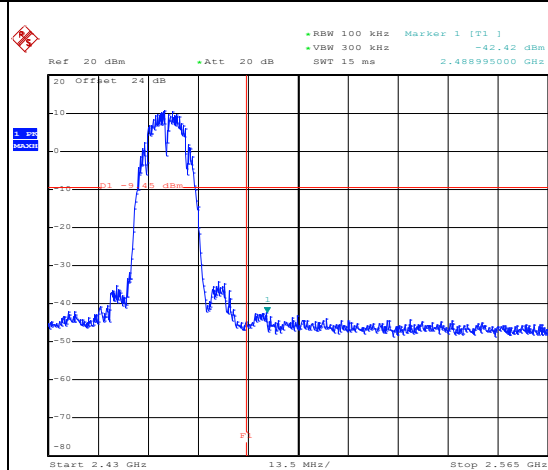
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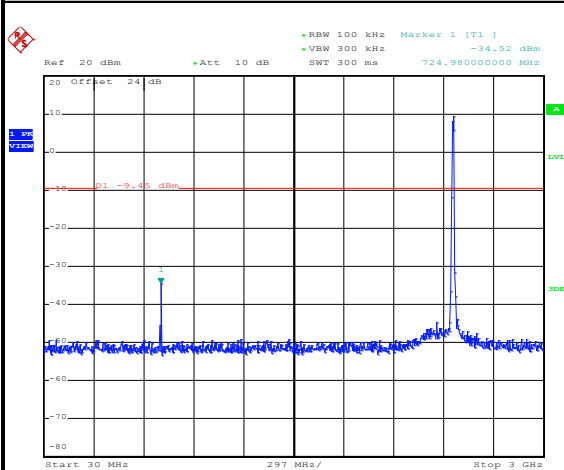
Number of TX :	2	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Derek Hsu

WLAN 802.11b Channel 11**100kHz PSD reference Level**

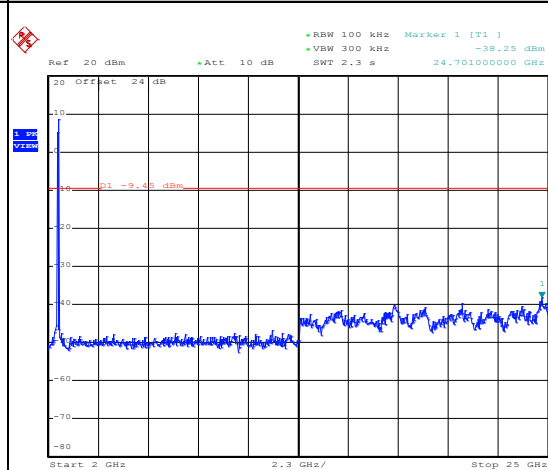
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High Channel Plot

Date: 24.MAR.2017 05:07:14

Spurious Emission 30MHz~3GHz

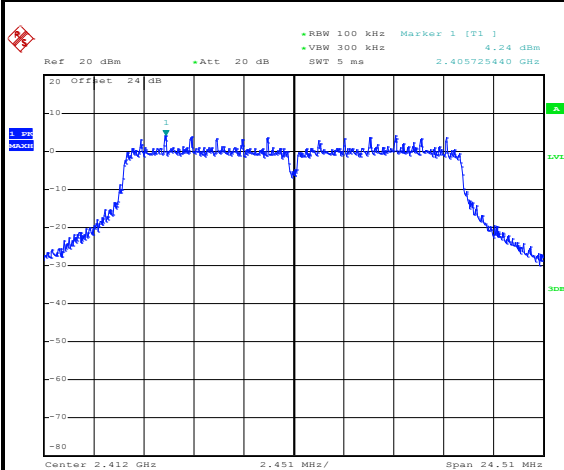
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Spurious Emission 2GHz~25GHz

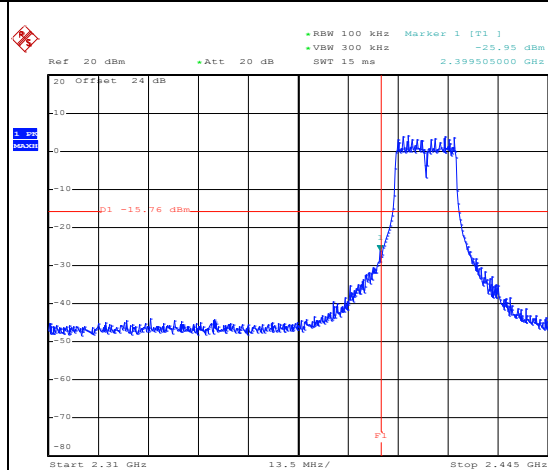
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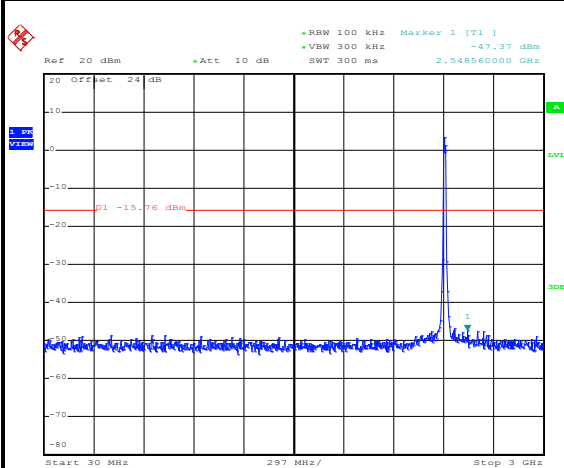
Number of TX :	2	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Derek Hsu

WLAN 802.11g Channel 01**100kHz PSD reference Level**

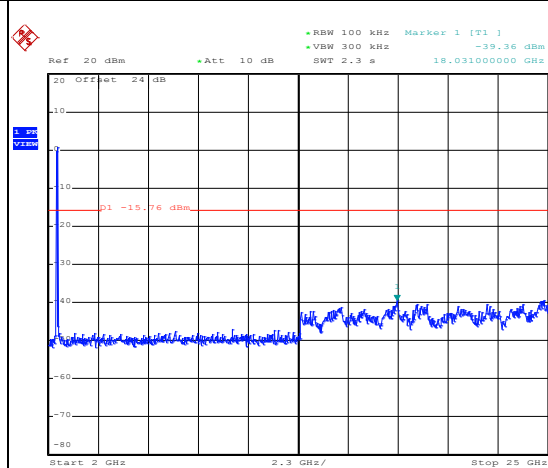
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Low Channel Plot

Date: 24.MAR.2017 03:33:39

Spurious Emission 30MHz~3GHz

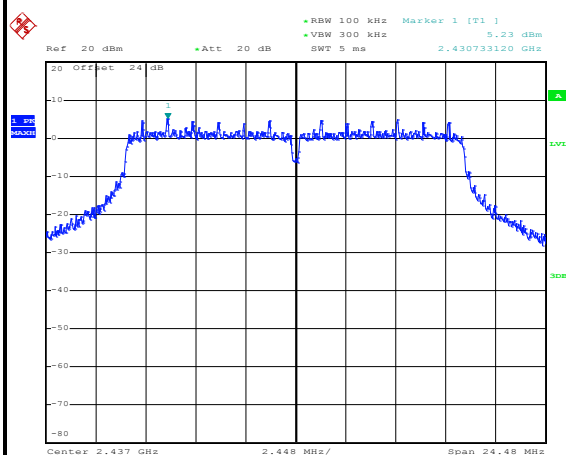
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Spurious Emission 2GHz~25GHz

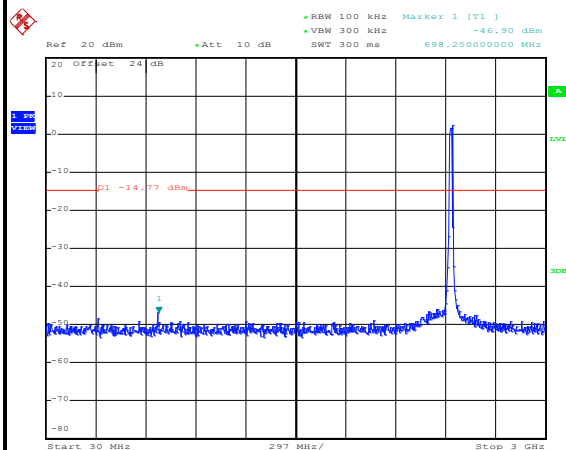
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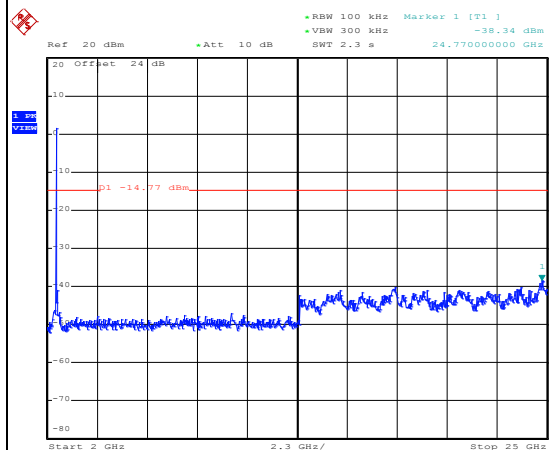
Number of TX :	2	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Derek Hsu

WLAN 802.11g Channel 06**100kHz PSD reference Level****Mid Channel Plot**

Date: 24.MAR.2017 03:42:02

Spurious Emission 30MHz~3GHz**Spurious Emission 2GHz~25GHz**

Date: 24.MAR.2017 03:42:55



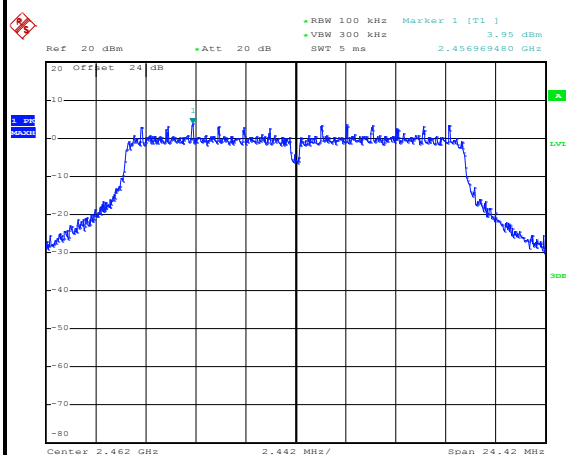
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Number of TX :	2	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Derek Hsu

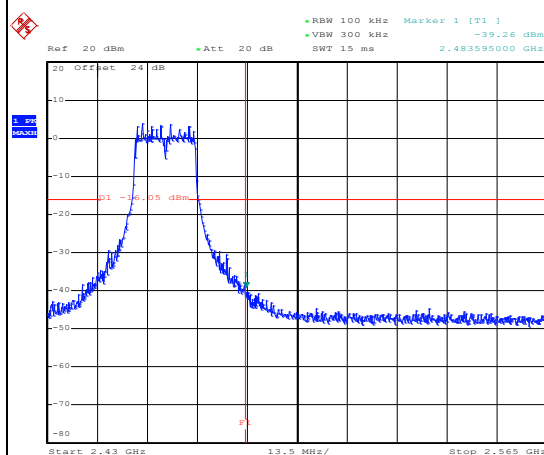
WLAN 802.11g Channel 11

100kHz PSD reference Level



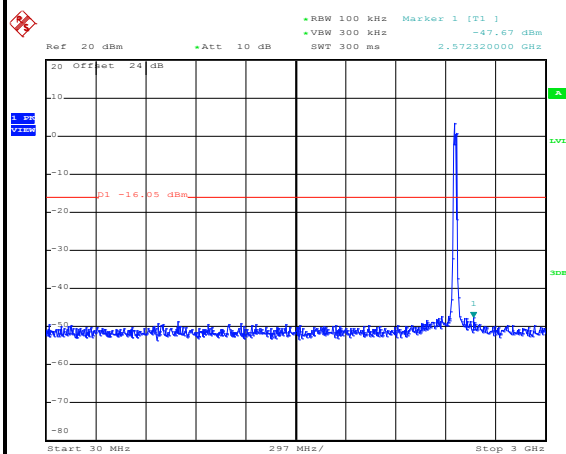
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High Channel Plot



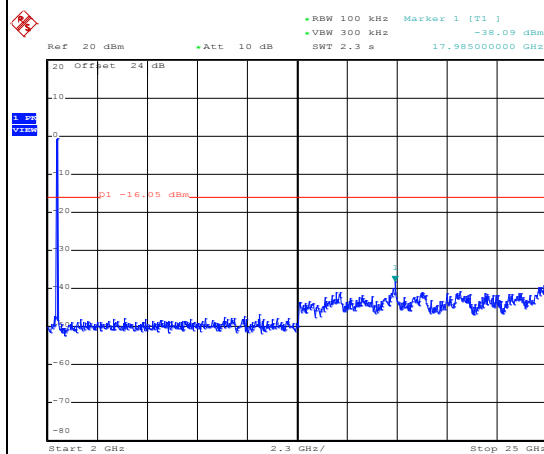
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Spurious Emission 30MHz~3GHz



Date: 24.MAR.2017 03:50:15

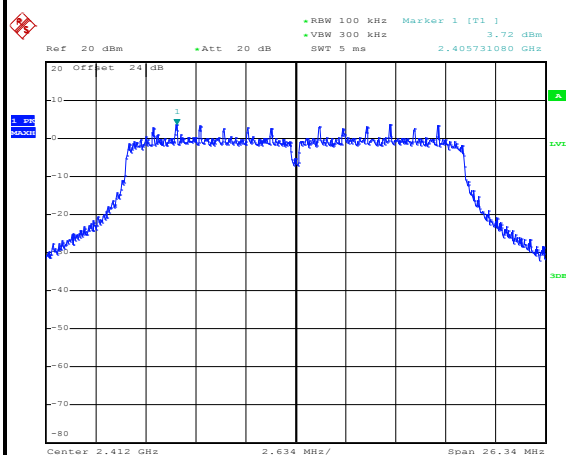
Spurious Emission 2GHz~25GHz



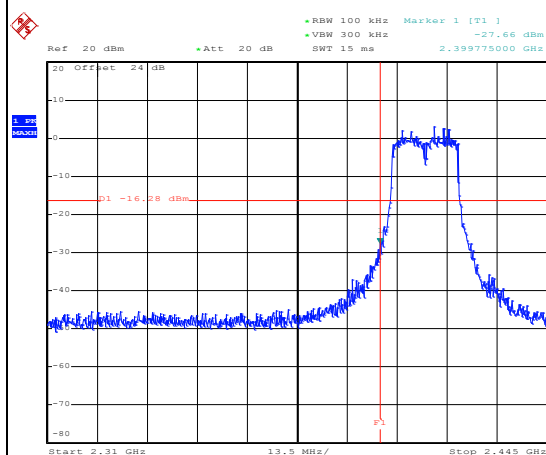
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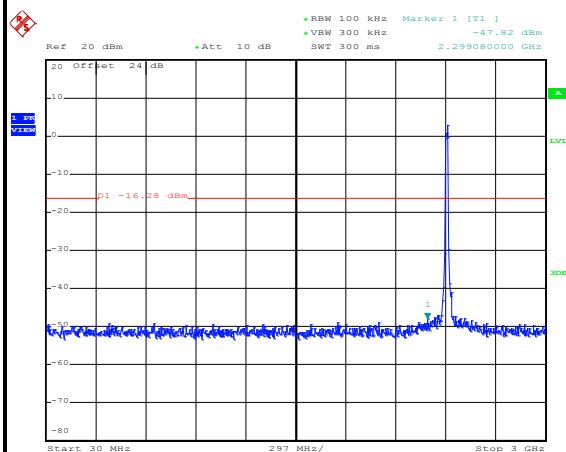
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Derek Hsu

WLAN 802.11n HT20 Channel 01**100kHz PSD reference Level**

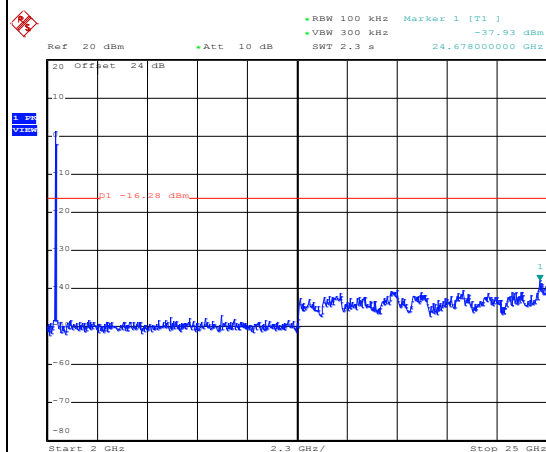
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Low Channel Plot

Date: 24.MAR.2017 03:58:37

Spurious Emission 30MHz~3GHz

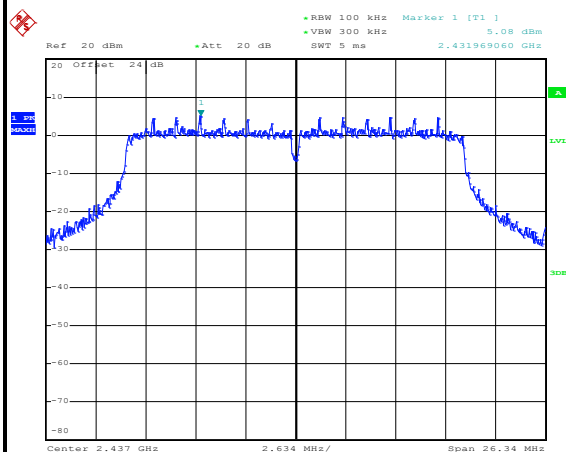
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Spurious Emission 2GHz~25GHz

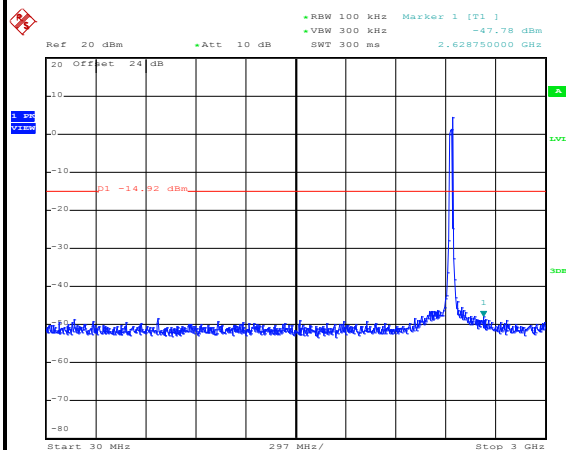
Date: 24.MAR.2017 03:58:59



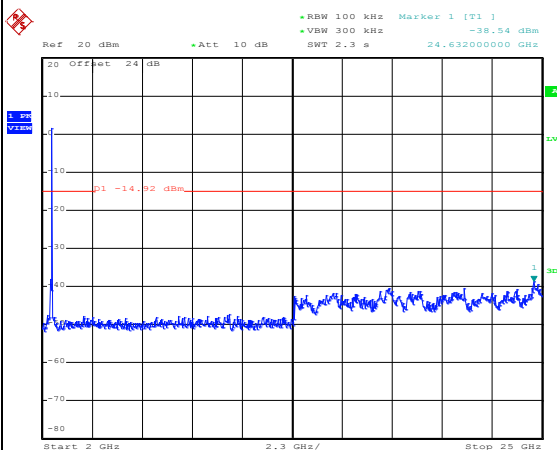
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Derek Hsu

WLAN 802.11n HT20 Channel 06**100kHz PSD reference Level****Mid Channel Plot**

Date: 24.MAR.2017 04:06:50

Spurious Emission 30MHz~3GHz**Spurious Emission 2GHz~25GHz**

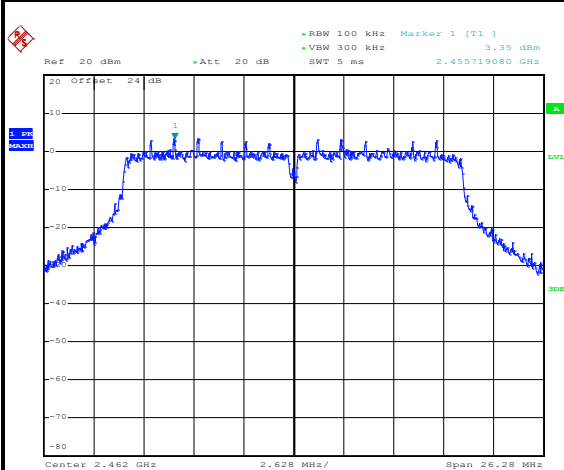
Date: 24.MAR.2017 04:07:07



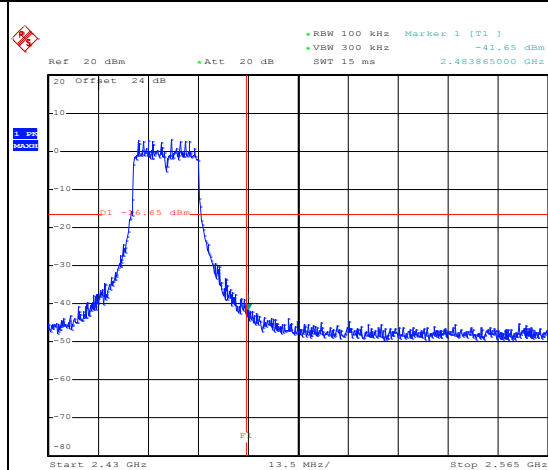
Date: 24.MAR.2017 04:07:15



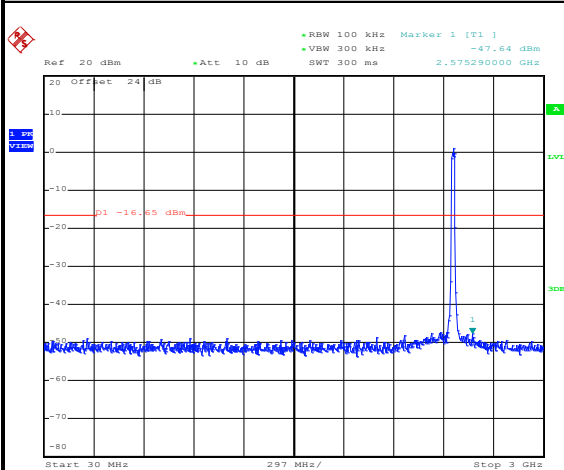
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Derek Hsu

WLAN 802.11n HT20 Channel 11**100kHz PSD reference Level**

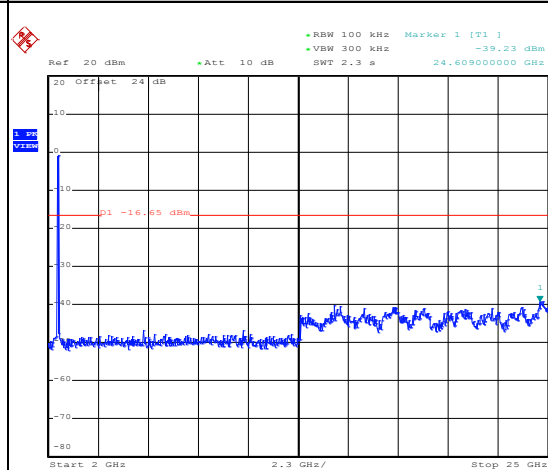
Date: 24.MAR.2017 04:29:31

High Channel Plot

Date: 24.MAR.2017 04:29:42

Spurious Emission 30MHz~3GHz

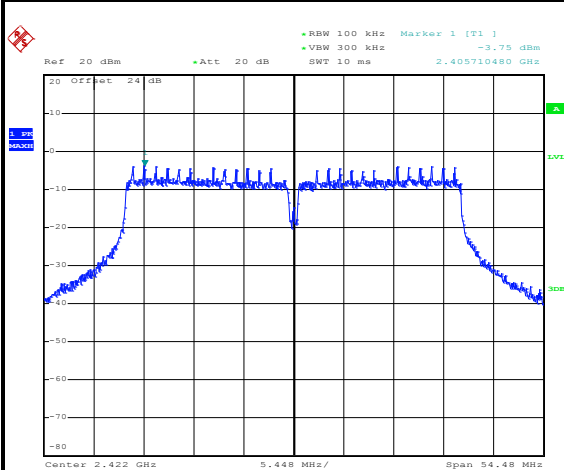
Date: 24.MAR.2017 04:30:18

Spurious Emission 2GHz~25GHz

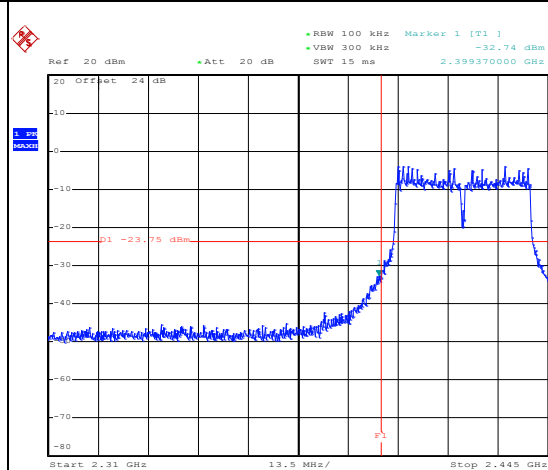
Date: 24.MAR.2017 04:30:26



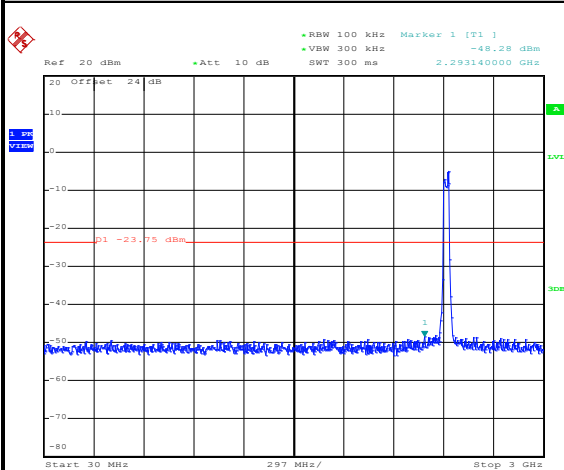
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Derek Hsu

WLAN 802.11n HT40 Channel 03**100kHz PSD reference Level**

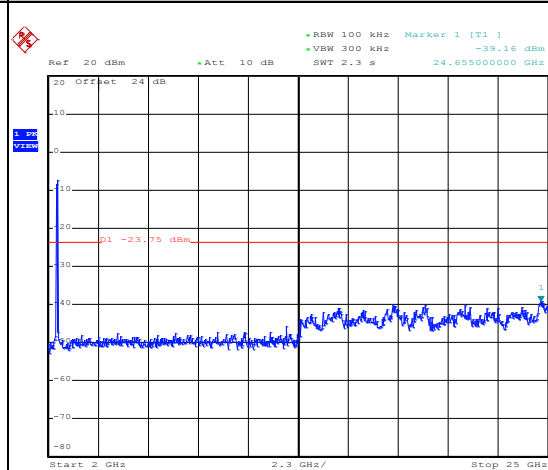
Date: 24.MAR.2017 04:39:09

Low Channel Plot

Date: 24.MAR.2017 04:39:20

Spurious Emission 30MHz~3GHz

Date: 24.MAR.2017 04:39:32

Spurious Emission 2GHz~25GHz

Date: 24.MAR.2017 04:39:40

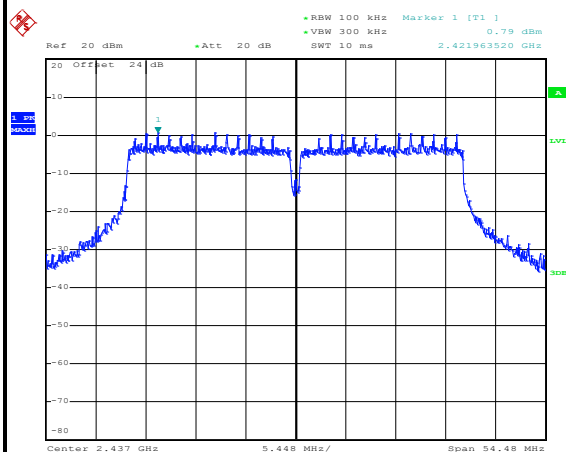


Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Derek Hsu

WLAN 802.11n HT40 Channel 06

100kHz PSD reference Level

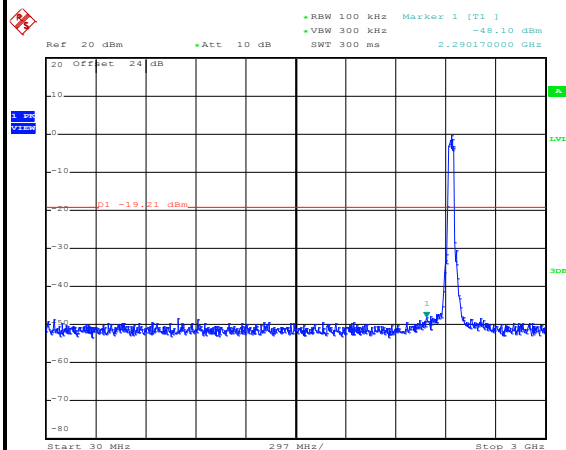
Mid Channel Plot



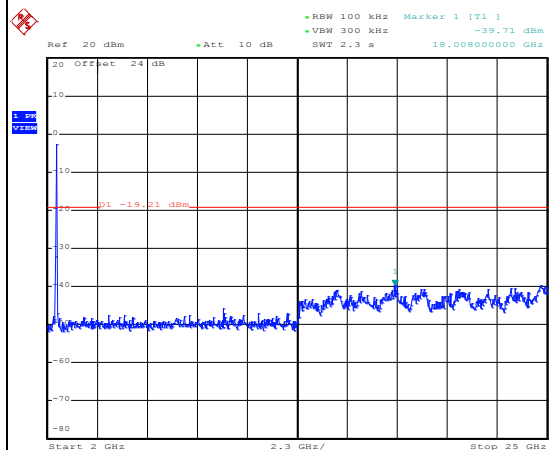
Date: 24.MAR.2017 04:47:55

Spurious Emission 30MHz~3GHz

Spurious Emission 2GHz~25GHz



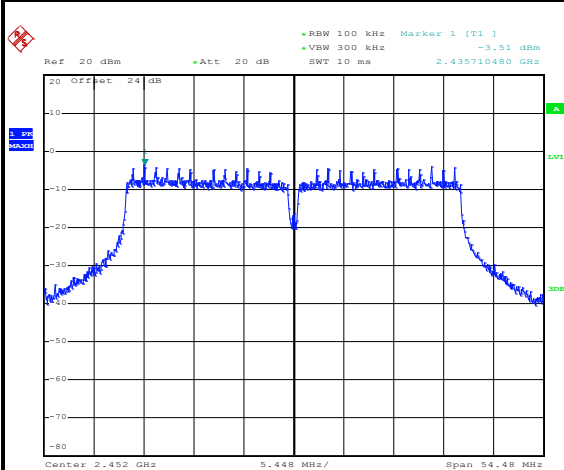
Date: 24.MAR.2017 04:48:33



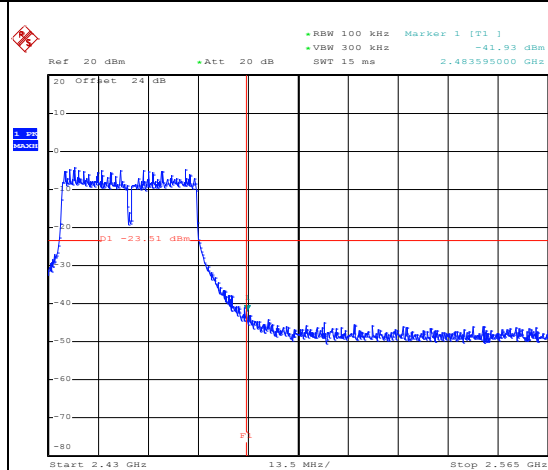
Date: 24.MAR.2017 04:48:41



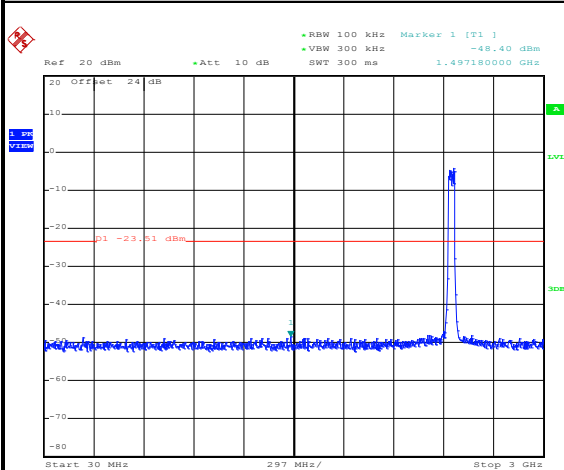
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Derek Hsu

WLAN 802.11n HT40 Channel 09**100kHz PSD reference Level**

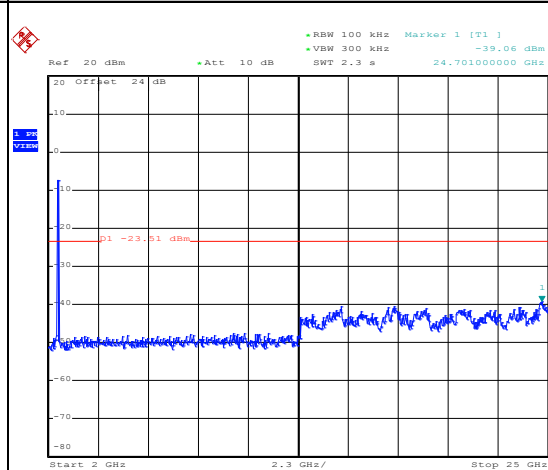
Date: 24.MAR.2017 04:57:14

High Channel Plot

Date: 24.MAR.2017 04:57:32

Spurious Emission 30MHz~3GHz

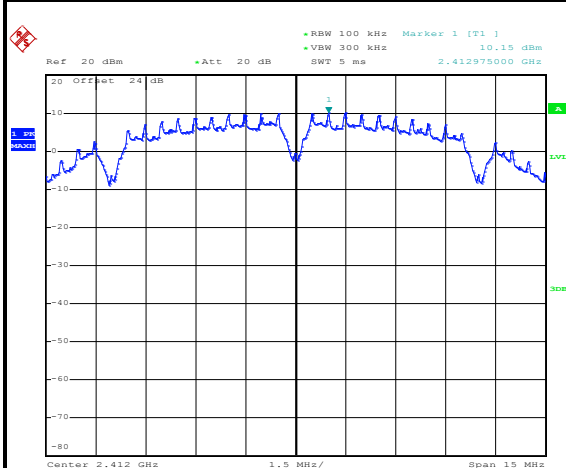
Date: 24.MAR.2017 04:59:13

Spurious Emission 2GHz~25GHz

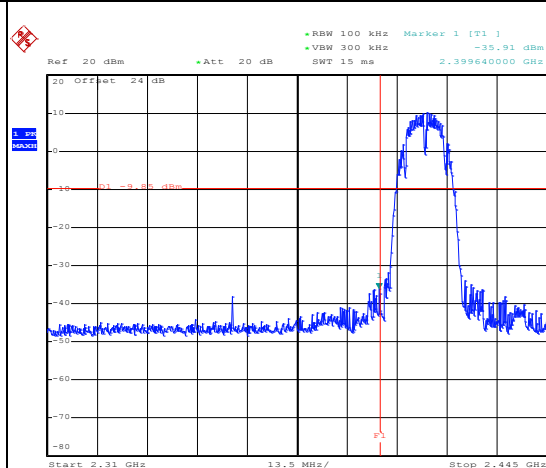
Date: 24.MAR.2017 04:58:20

**Number of TX = 2, Ant. 2 (Measured)**

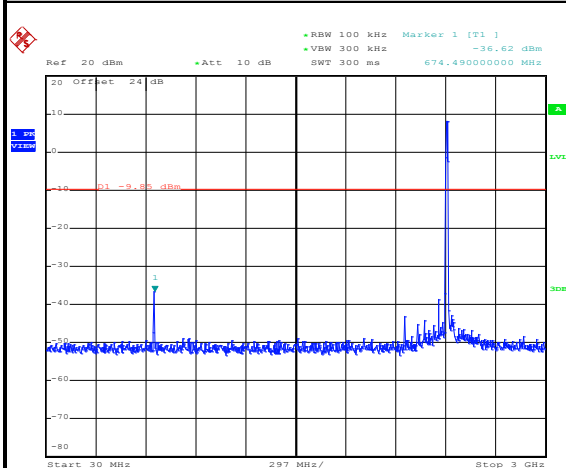
Number of TX :	2	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Derek Hsu

WLAN 802.11b Channel 01**100kHz PSD reference Level**

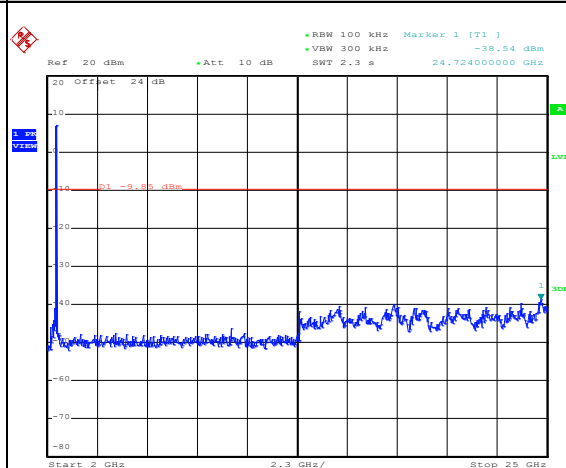
Date: 24.MAR.2017 02:57:27

Low Channel Plot

Date: 24.MAR.2017 02:57:42

Spurious Emission 30MHz~3GHz

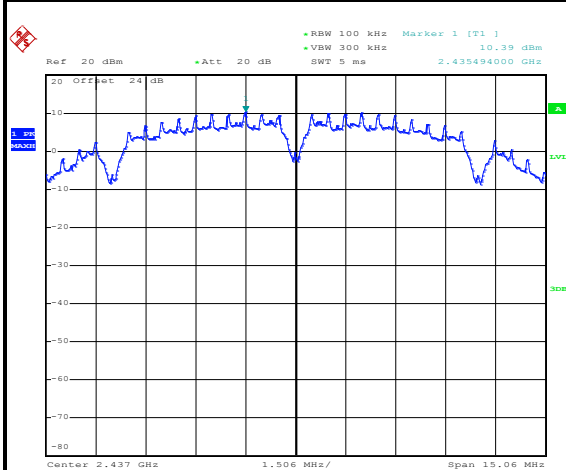
Date: 24.MAR.2017 02:57:58

Spurious Emission 2GHz~25GHz

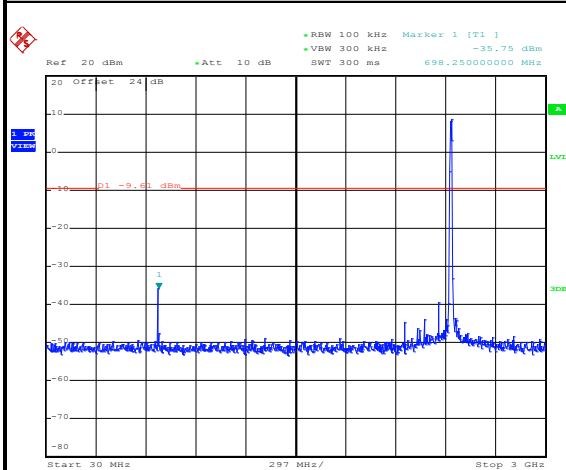
Date: 24.MAR.2017 02:58:06



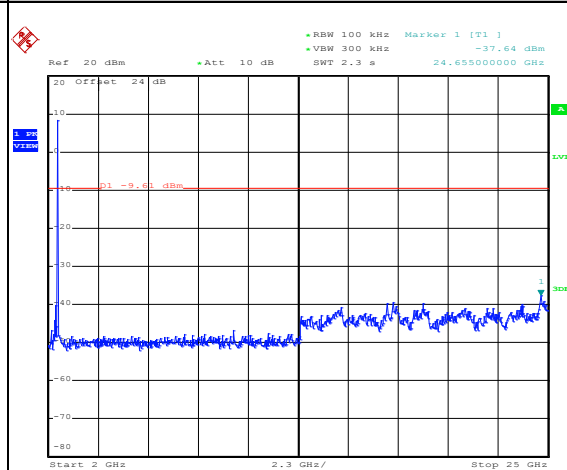
Number of TX :	2	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Derek Hsu

WLAN 802.11b Channel 06**100kHz PSD reference Level**

Date: 24.MAR.2017 03:06:25

Mid Channel Plot**Spurious Emission 30MHz~3GHz**

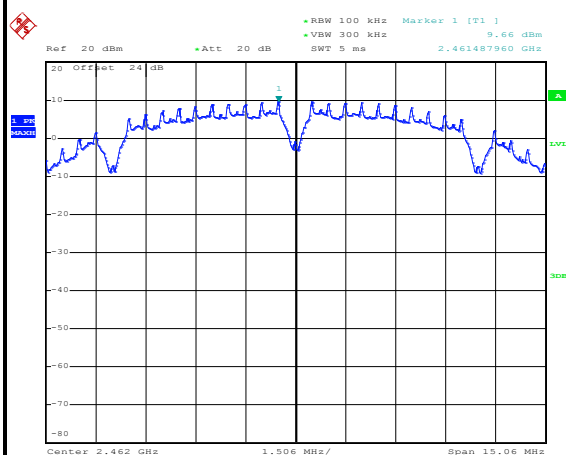
Date: 24.MAR.2017 03:06:42

Spurious Emission 2GHz~25GHz

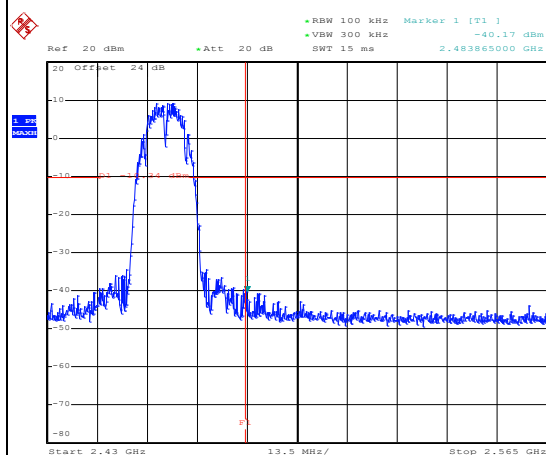
Date: 24.MAR.2017 03:06:50



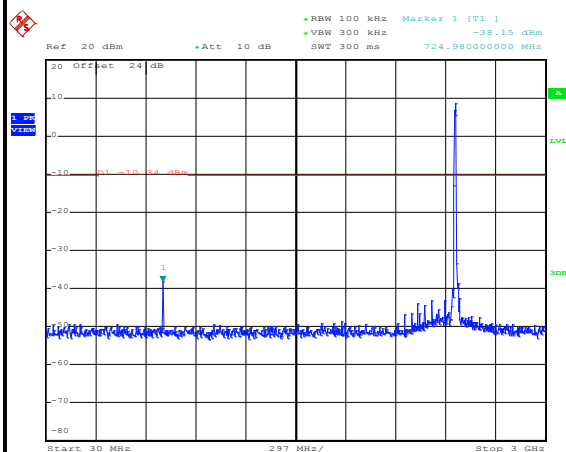
Number of TX :	2	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Derek Hsu

WLAN 802.11b Channel 11**100kHz PSD reference Level**

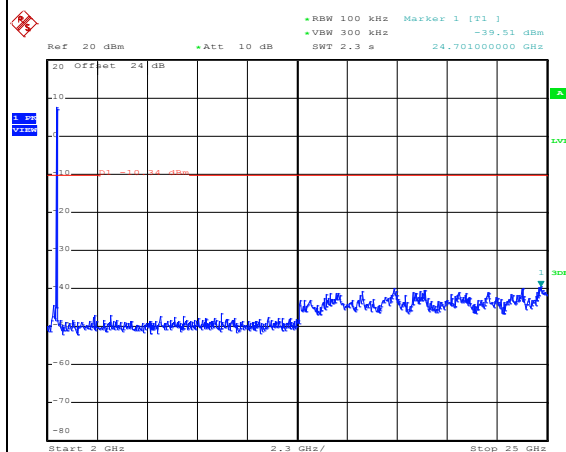
Date: 24.MAR.2017 03:22:39

High Channel Plot

Date: 24.MAR.2017 03:23:03

Spurious Emission 30MHz~3GHz

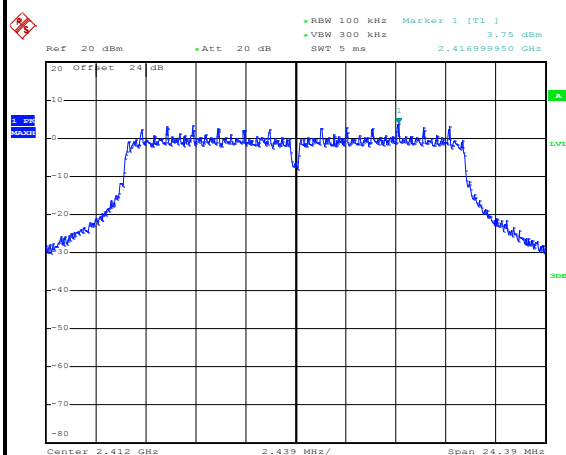
Date: 24.MAR.2017 03:23:18

Spurious Emission 2GHz~25GHz

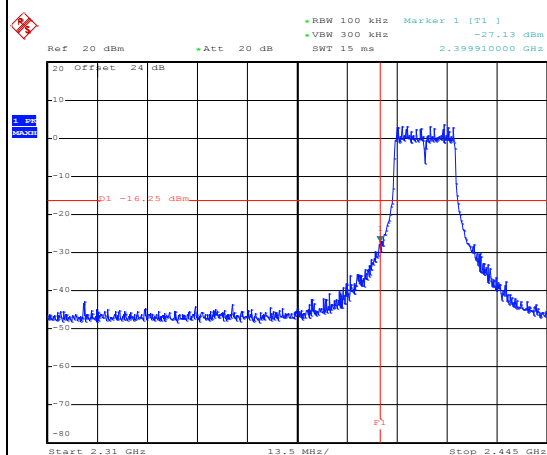
Date: 24.MAR.2017 03:23:27



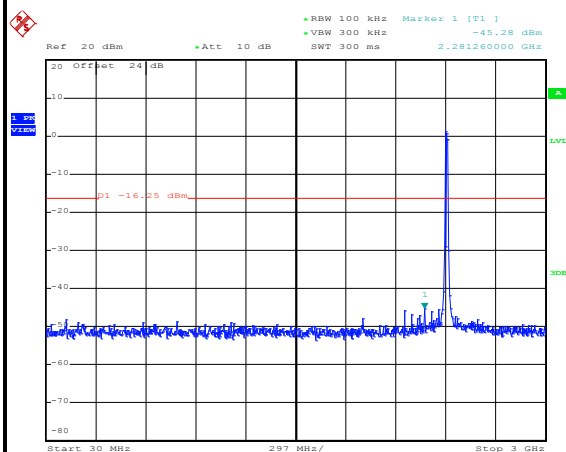
Number of TX :	2	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Derek Hsu

WLAN 802.11g Channel 01**100kHz PSD reference Level**

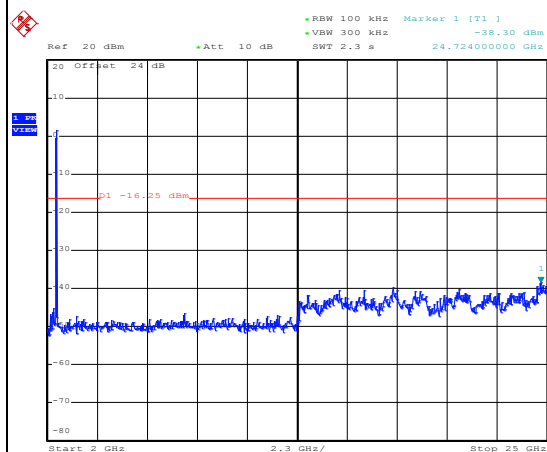
Date: 24.MAR.2017 03:36:57

Low Channel Plot

Date: 24.MAR.2017 03:37:22

Spurious Emission 30MHz~3GHz

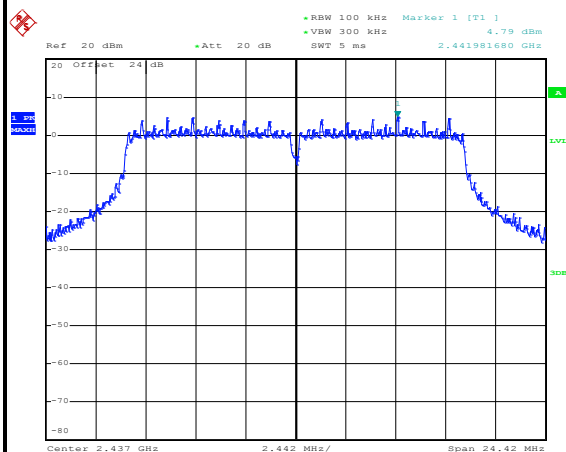
Date: 24.MAR.2017 03:37:44

Spurious Emission 2GHz~25GHz

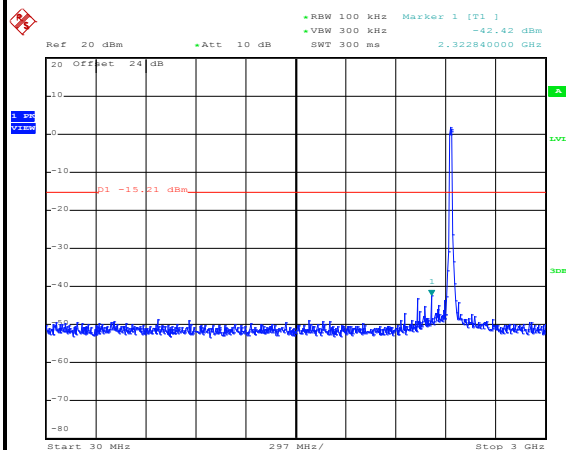
Date: 24.MAR.2017 03:37:52



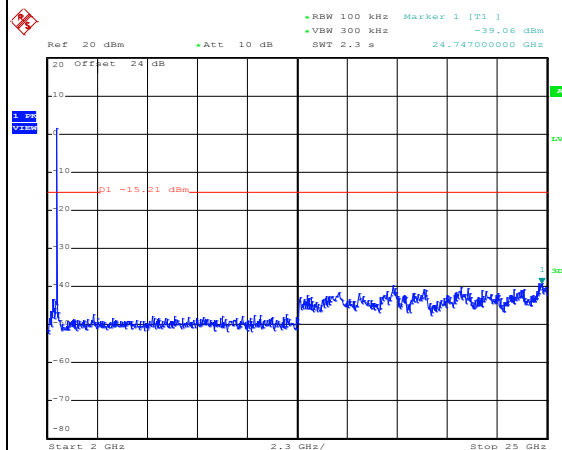
Number of TX :	2	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Derek Hsu

WLAN 802.11g Channel 06**100kHz PSD reference Level****Mid Channel Plot**

Date: 24.MAR.2017 03:45:12

Spurious Emission 30MHz~3GHz**Spurious Emission 2GHz~25GHz**

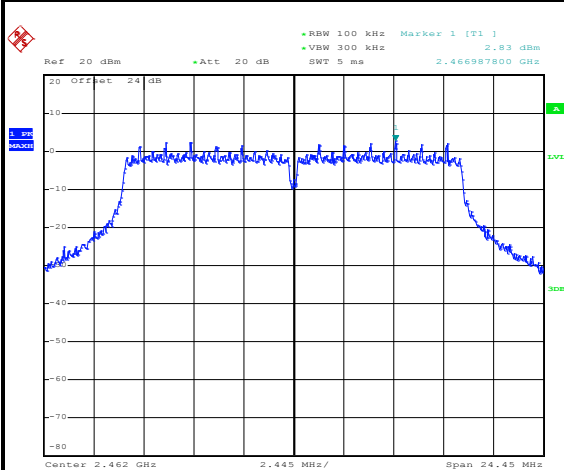
Date: 24.MAR.2017 03:45:26



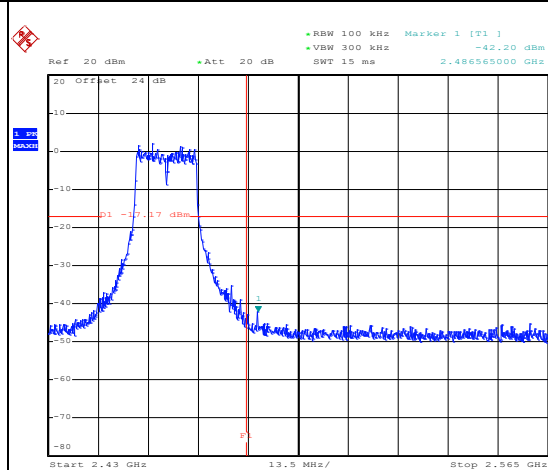
Date: 24.MAR.2017 03:45:35



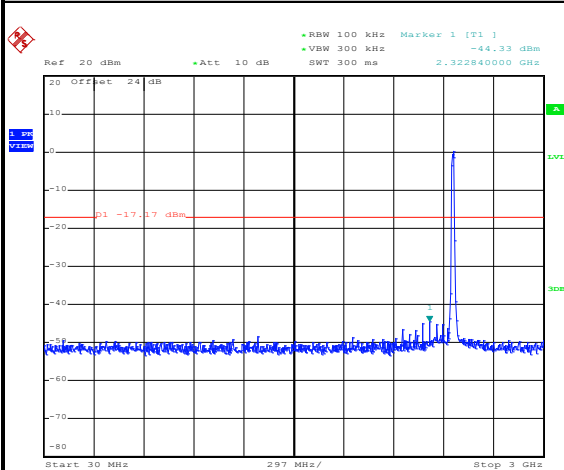
Number of TX :	2	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Derek Hsu

WLAN 802.11g Channel 11**100kHz PSD reference Level**

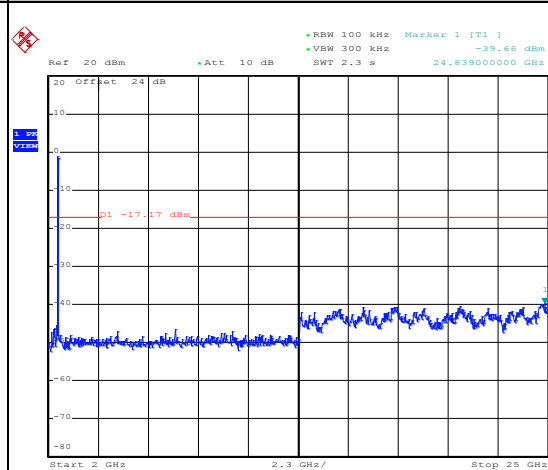
Date: 24.MAR.2017 03:52:06

High Channel Plot

Date: 24.MAR.2017 03:52:39

Spurious Emission 30MHz~3GHz

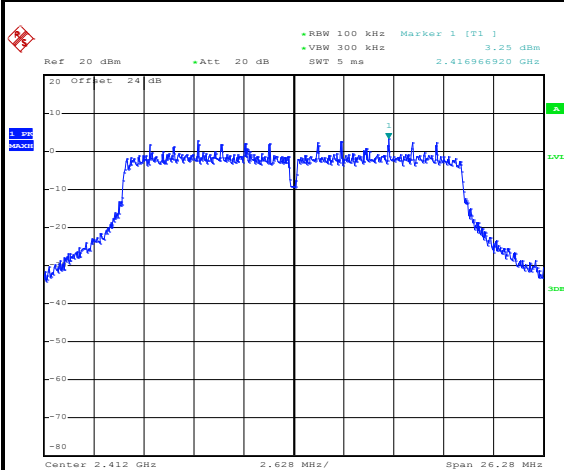
Date: 24.MAR.2017 03:52:53

Spurious Emission 2GHz~25GHz

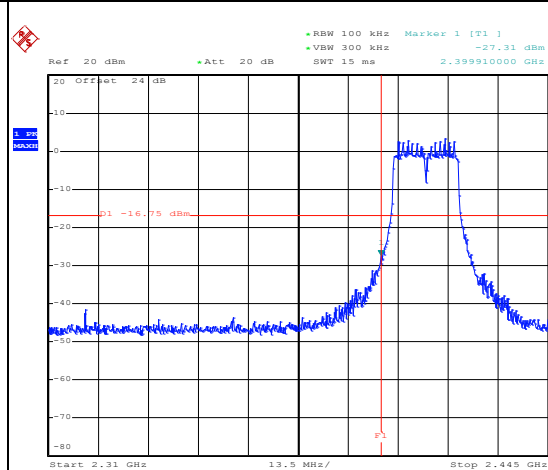
Date: 24.MAR.2017 03:53:01



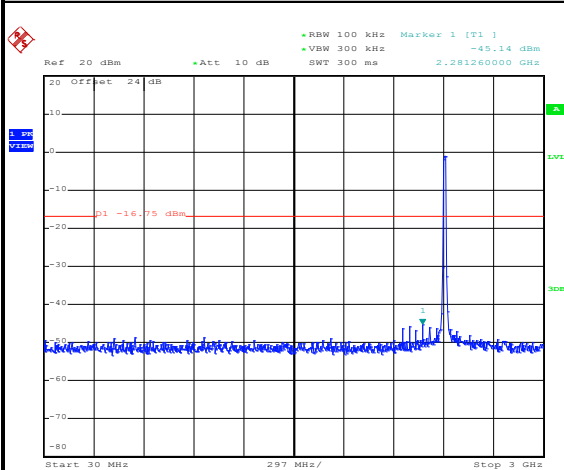
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Derek Hsu

WLAN 802.11n HT20 Channel 01**100kHz PSD reference Level**

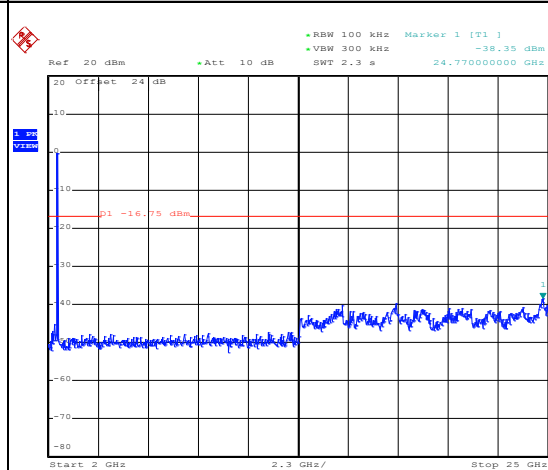
Date: 24.MAR.2017 04:01:16

Low Channel Plot

Date: 24.MAR.2017 04:01:45

Spurious Emission 30MHz~3GHz

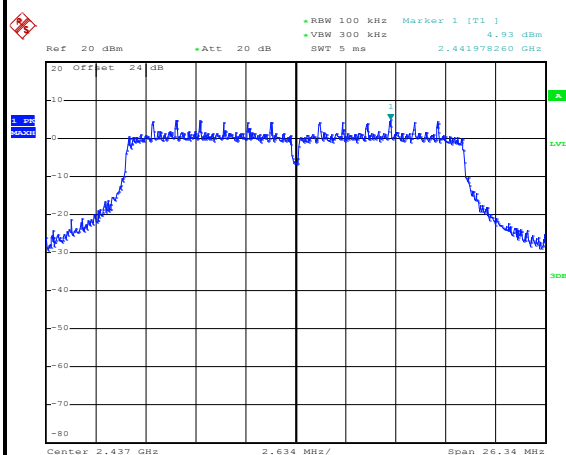
Date: 24.MAR.2017 04:02:00

Spurious Emission 2GHz~25GHz

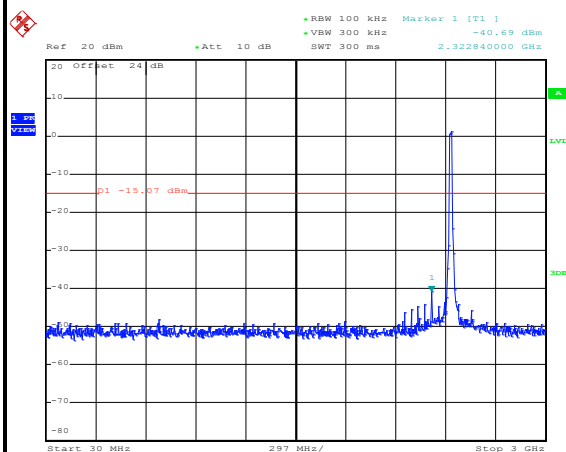
Date: 24.MAR.2017 04:02:08



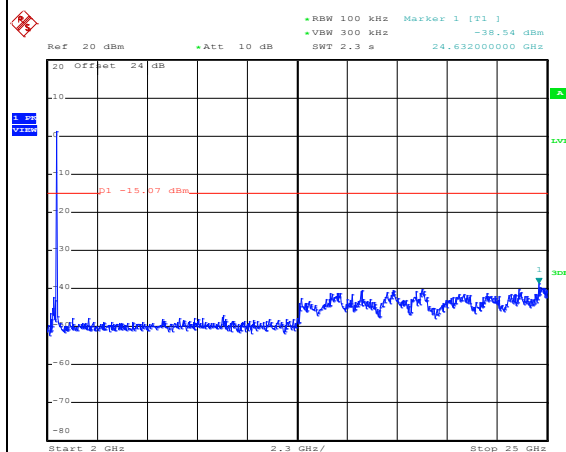
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Derek Hsu

WLAN 802.11n HT20 Channel 06**100kHz PSD reference Level**

Date: 24.MAR.2017 04:09:14

Mid Channel Plot**Spurious Emission 30MHz~3GHz**

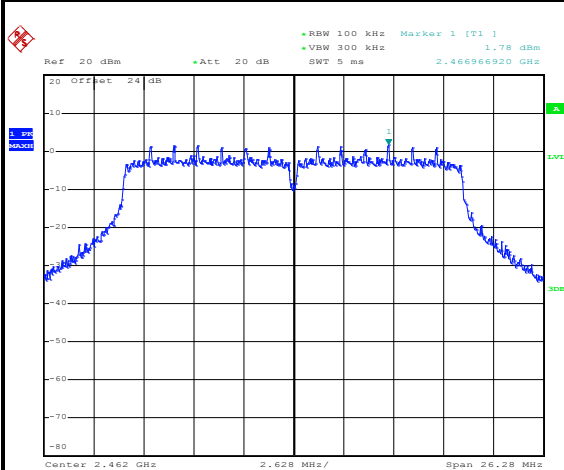
Date: 24.MAR.2017 04:09:47

Spurious Emission 2GHz~25GHz

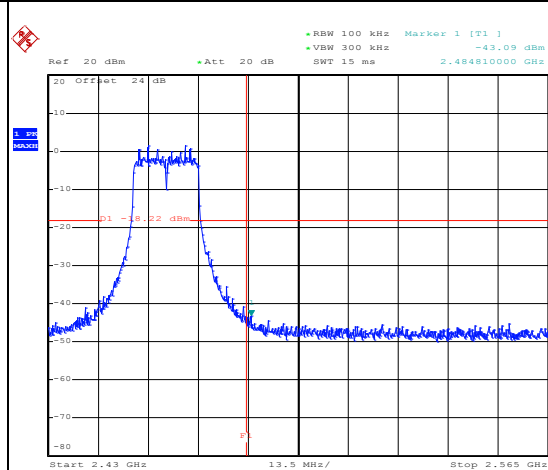
Date: 24.MAR.2017 04:09:55



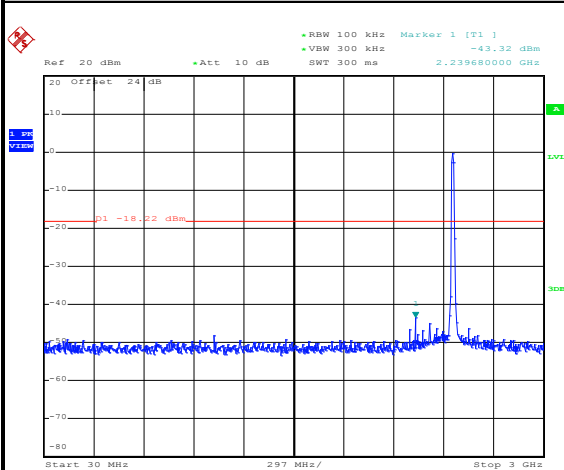
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Derek Hsu

WLAN 802.11n HT20 Channel 11**100kHz PSD reference Level**

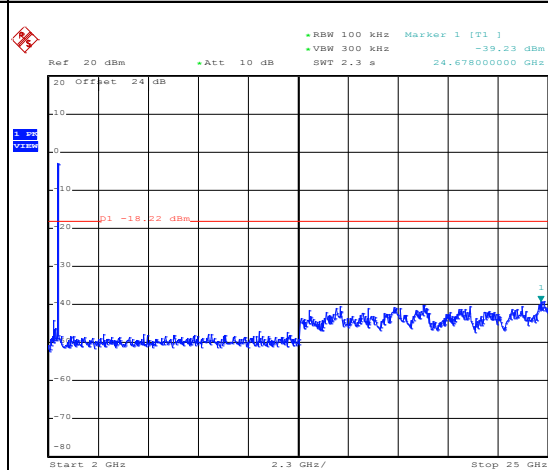
Date: 24.MAR.2017 04:32:00

High Channel Plot

Date: 24.MAR.2017 04:33:29

Spurious Emission 30MHz~3GHz

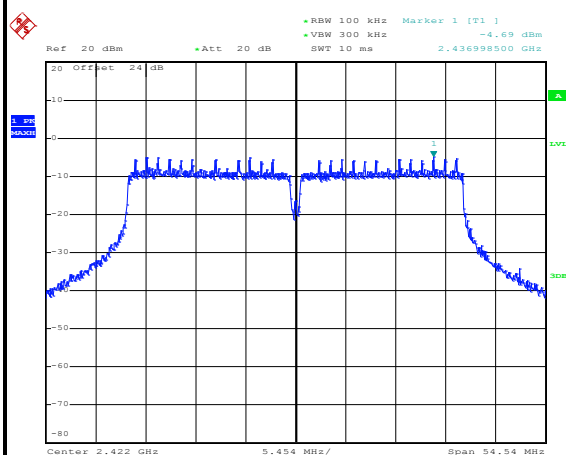
Date: 24.MAR.2017 04:33:41

Spurious Emission 2GHz~25GHz

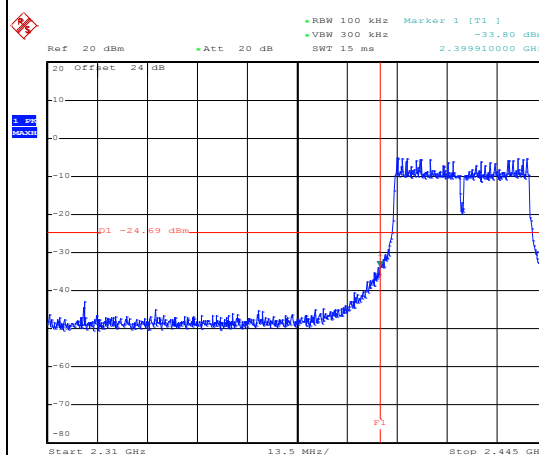
Date: 24.MAR.2017 04:33:50



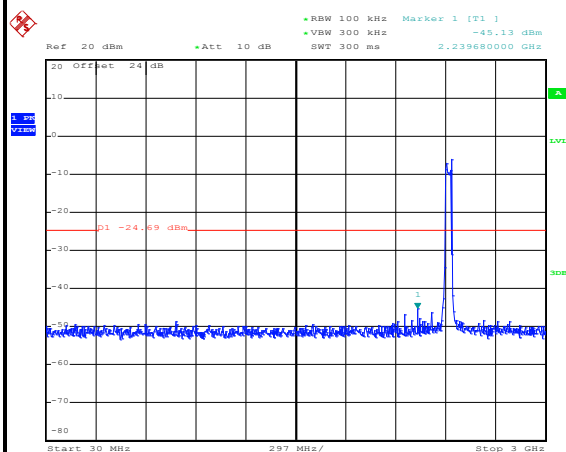
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Derek Hsu

WLAN 802.11n HT40 Channel 03**100kHz PSD reference Level**

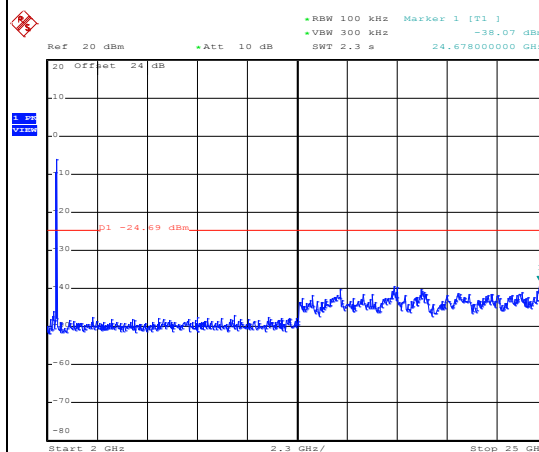
Date: 24.MAR.2017 04:42:46

Low Channel Plot

Date: 24.MAR.2017 04:43:04

Spurious Emission 30MHz~3GHz

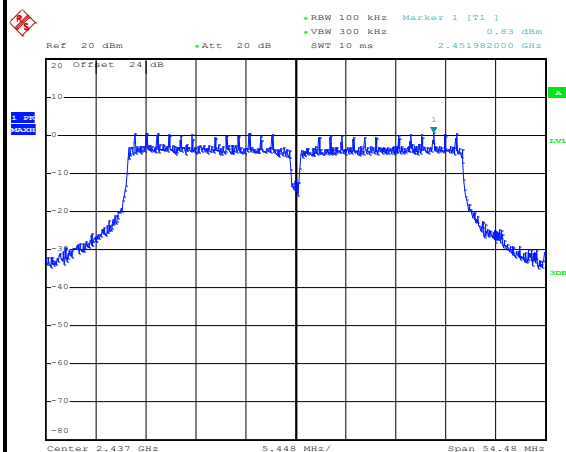
Date: 24.MAR.2017 04:43:17

Spurious Emission 2GHz~25GHz

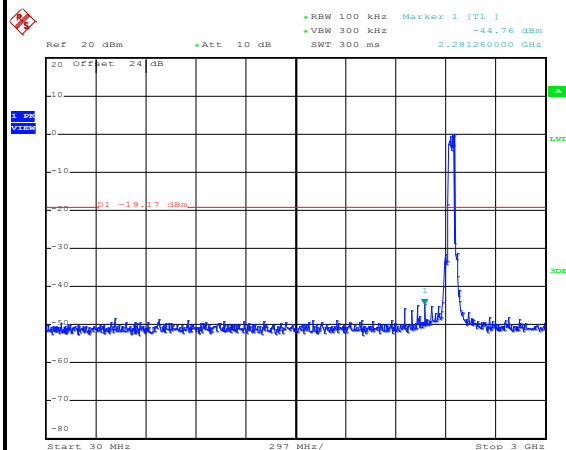
Date: 24.MAR.2017 04:43:25



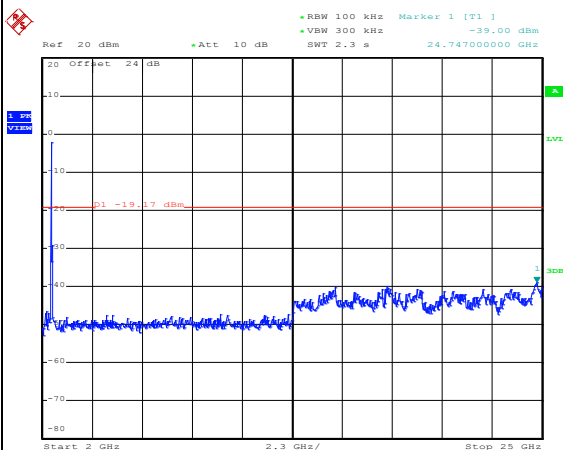
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Derek Hsu

WLAN 802.11n HT40 Channel 06**100kHz PSD reference Level****Mid Channel Plot**

Date: 24.MAR.2017 04:50:36

Spurious Emission 30MHz~3GHz**Spurious Emission 2GHz~25GHz**

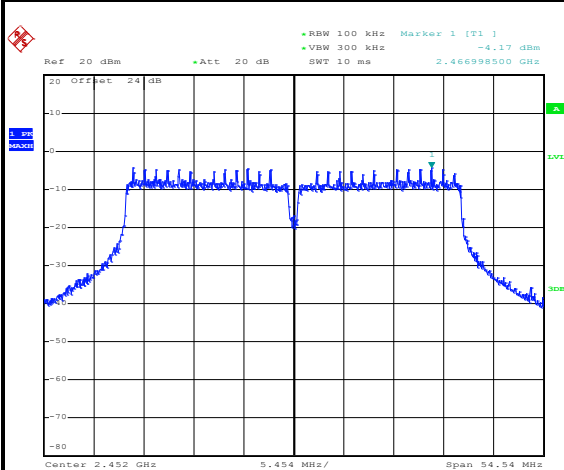
Date: 24.MAR.2017 04:52:42



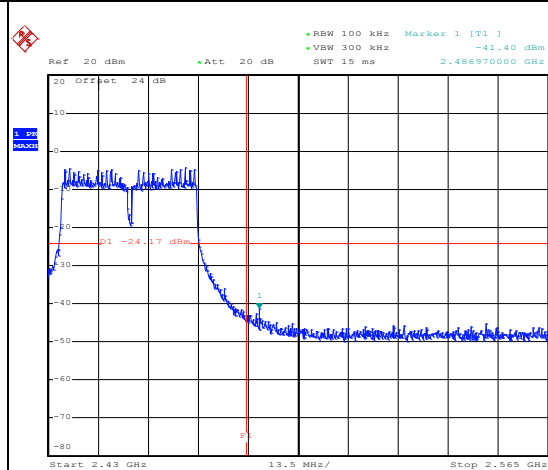
Date: 24.MAR.2017 04:52:06



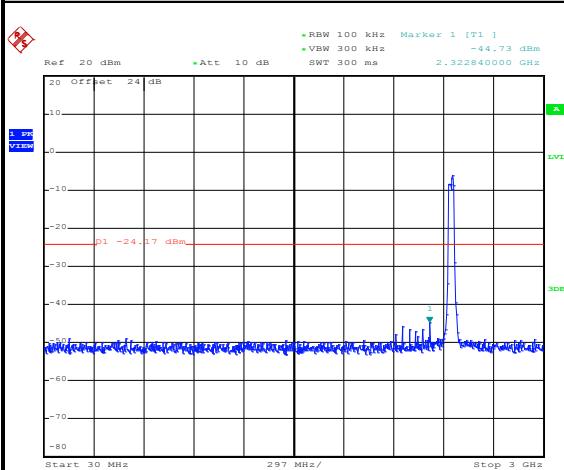
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Derek Hsu

WLAN 802.11n HT40 Channel 09**100kHz PSD reference Level**

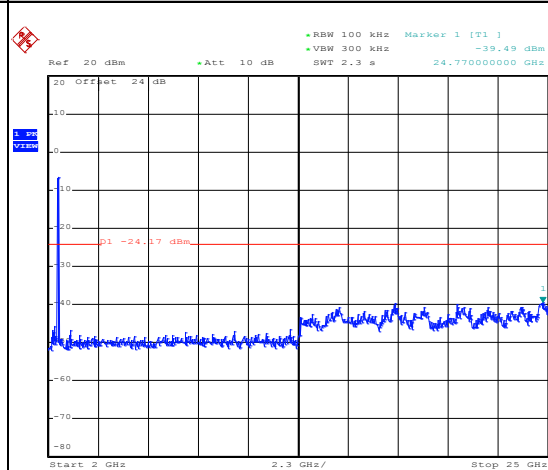
Date: 24.MAR.2017 05:01:19

High Channel Plot

Date: 24.MAR.2017 05:01:42

Spurious Emission 30MHz~3GHz

Date: 24.MAR.2017 05:02:21

Spurious Emission 2GHz~25GHz

Date: 24.MAR.2017 05:02:30

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.5.2 Measuring Instruments

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



3.5.3 Test Procedures

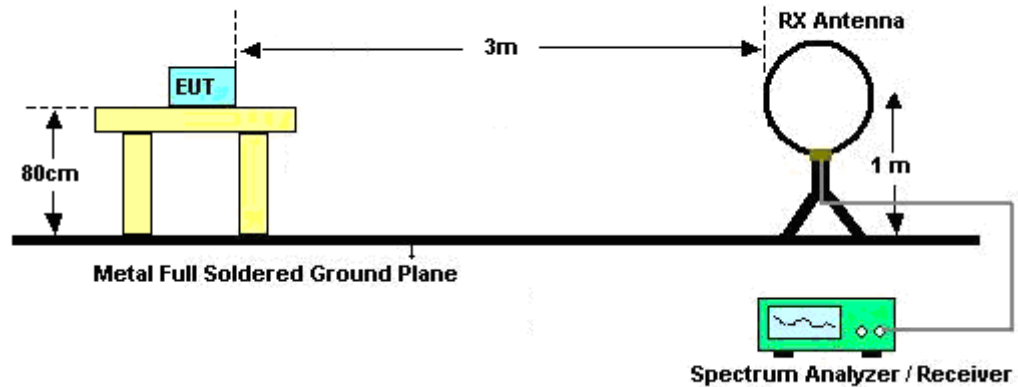
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. 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.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

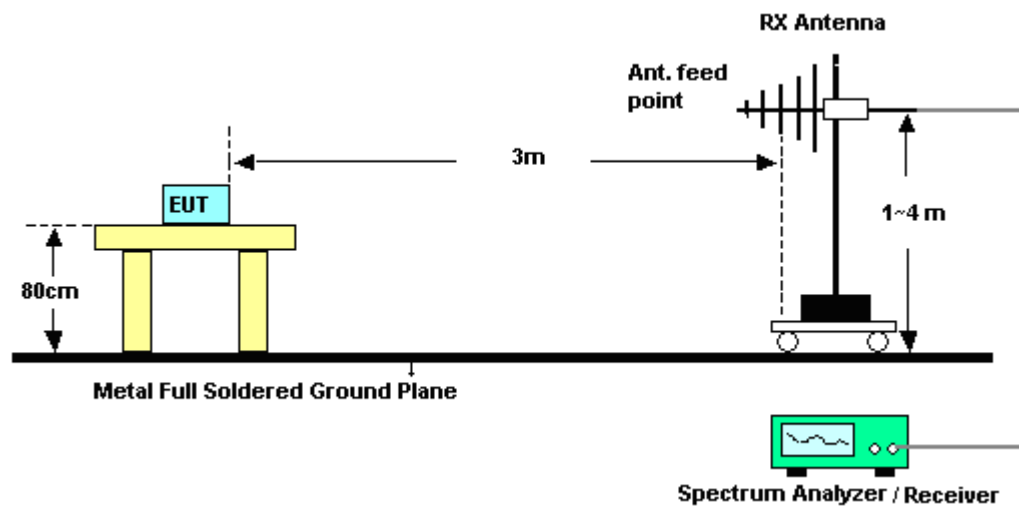
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

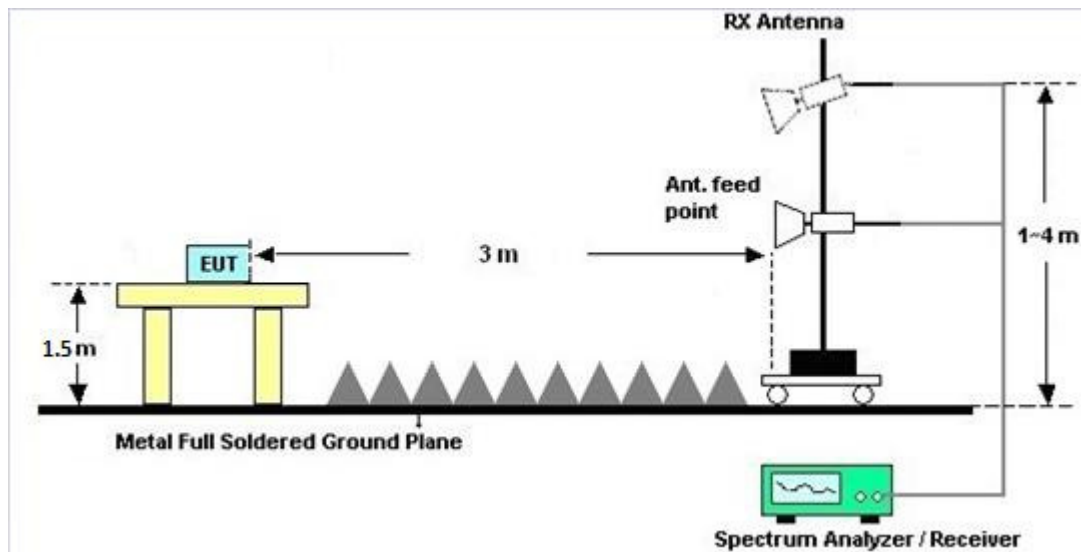
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

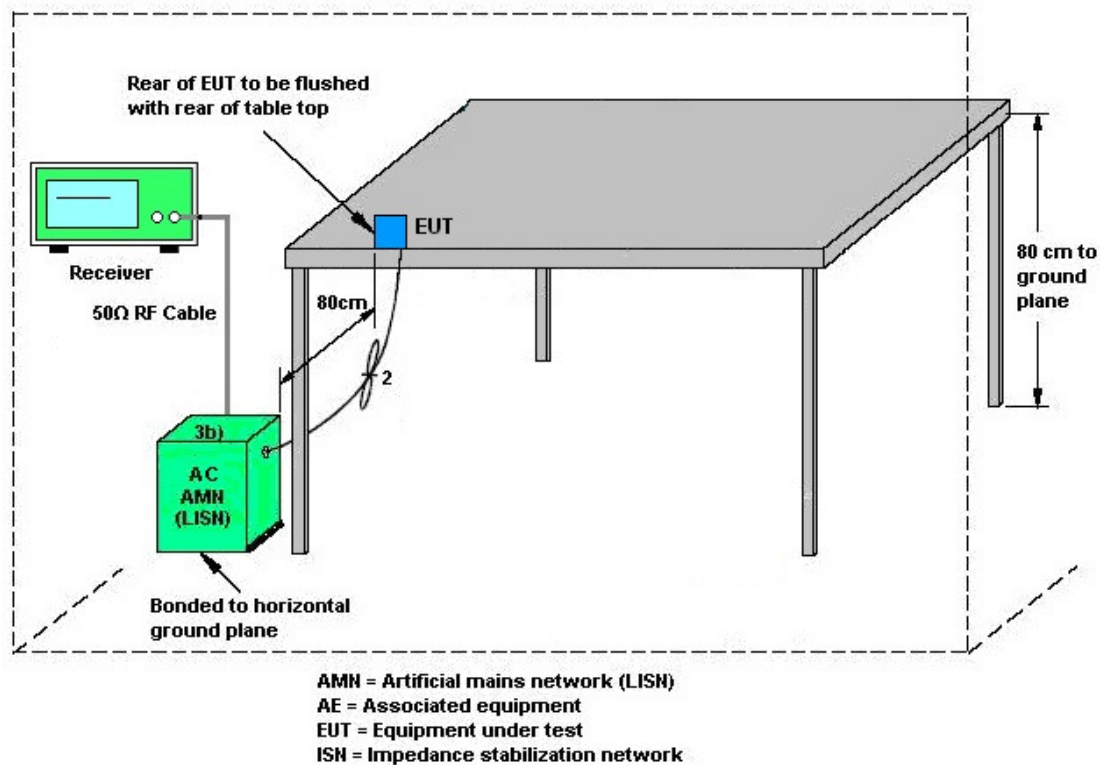
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it 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 (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the Antenna exceeds 6 dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 1 (dBi)	Ant. 2 (dBi)				
2.4 GHz	4.00	4.00	4.00	7.01	0.00	1.01

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	300MHz~40GHz	Sep. 29, 2016	Mar. 23, 2017 ~ Mar. 24, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Mar. 23, 2017 ~ Mar. 24, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jul. 17, 2016	Mar. 23, 2017 ~ Mar. 24, 2017	Jul. 16, 2017	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 02, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	May 02, 2017	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	May 02, 2017	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	May 02, 2017	Dec. 05, 2017	Conduction (CO05-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 10, 2016	Mar. 17, 2017 ~ Mar. 18, 2017	Nov. 09, 2017	Radiation (03CH12-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Oct. 20, 2016	Mar. 17, 2017 ~ Mar. 18, 2017	Oct. 19, 2018	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	37059&01	30MHz~1GHz	Oct. 15, 2016	Mar. 17, 2017 ~ Mar. 18, 2017	Oct. 14, 2017	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 23, 2016	Mar. 17, 2017 ~ Mar. 18, 2017	Dec. 22, 2017	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Oct. 25, 2016	Mar. 17, 2017 ~ Mar. 18, 2017	Oct. 24, 2017	Radiation (03CH12-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1815698	1GHz~18GHz	Dec. 01, 2016	Mar. 17, 2017 ~ Mar. 18, 2017	Nov. 30, 2017	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY53270148	1GHz~26.5GHz	Jan. 12, 2017	Mar. 17, 2017 ~ Mar. 18, 2017	Jan. 11, 2018	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Mar. 17, 2017 ~ Mar. 18, 2017	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Mar. 17, 2017 ~ Mar. 18, 2017	N/A	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	Apr. 15, 2016	Mar. 17, 2017 ~ Mar. 18, 2017	Apr. 14, 2017	Radiation (03CH12-HY)
Preamplifier	MITEQ	JS44-180040 00-33-8P	1840917	18GHz ~ 40GHz	Jun. 14, 2016	Mar. 17, 2017 ~ Mar. 18, 2017	Jun. 13, 2017	Radiation (03CH12-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
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7
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Appendix A. Conducted Test Results

Report Number : FR741927

Test Engineer:	Derek Hsu	Temperature:	21~25	°C
Test Date:	2017/3/23 ~ 2017/3/24	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	2	1	2412	14.15	14.15	10.06	10.00	0.50	Pass
11b	1Mbps	2	6	2437	14.15	14.15	10.02	10.04	0.50	Pass
11b	1Mbps	2	11	2462	14.25	14.15	10.04	10.04	0.50	Pass
11g	6Mbps	2	1	2412	18.30	18.25	16.34	16.26	0.50	Pass
11g	6Mbps	2	6	2437	18.15	18.15	16.32	16.28	0.50	Pass
11g	6Mbps	2	11	2462	18.20	18.00	16.28	16.30	0.50	Pass
HT20	MCS0	2	1	2412	19.15	19.00	17.56	17.52	0.50	Pass
HT20	MCS0	2	6	2437	19.40	19.00	17.56	17.56	0.50	Pass
HT20	MCS0	2	11	2462	19.20	19.10	17.52	17.52	0.50	Pass
HT40	MCS0	2	3	2422	38.20	37.70	36.32	36.36	0.50	Pass
HT40	MCS0	2	6	2437	38.00	38.00	36.32	36.32	0.50	Pass
HT40	MCS0	2	9	2452	37.90	37.80	36.32	36.36	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	2	1	2412	22.81	22.00	25.43	30.00		4.00		29.43		36.00		Pass
11b	1Mbps	2	6	2437	22.26	21.85	25.07	30.00		4.00		29.07		36.00		Pass
11b	1Mbps	2	11	2462	22.33	21.31	24.86	30.00		4.00		28.86		36.00		Pass
11g	6Mbps	2	1	2412	23.76	23.35	26.57	30.00		4.00		30.57		36.00		Pass
11g	6Mbps	2	6	2437	23.92	23.71	26.83	30.00		4.00		30.83		36.00		Pass
11g	6Mbps	2	11	2462	23.55	22.77	26.19	30.00		4.00		30.19		36.00		Pass
HT20	MCS0	2	1	2412	23.76	23.10	26.45	30.00		4.00		30.45		36.00		Pass
HT20	MCS0	2	6	2437	24.02	23.73	26.89	30.00		4.00		30.89		36.00		Pass
HT20	MCS0	2	11	2462	23.62	22.75	26.22	30.00		4.00		30.22		36.00		Pass
HT40	MCS0	2	3	2422	22.55	21.75	25.18	30.00		4.00		29.18		36.00		Pass
HT40	MCS0	2	6	2437	23.72	23.45	26.60	30.00		4.00		30.60		36.00		Pass
HT40	MCS0	2	9	2452	22.30	21.90	25.11	30.00		4.00		29.11		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	2	1	2412	0.00	0.00	20.62	19.91	23.29
11b	1Mbps	2	6	2437	0.00	0.00	19.95	19.68	22.83
11b	1Mbps	2	11	2462	0.00	0.00	20.11	19.11	22.65
11g	6Mbps	2	1	2412	0.16	0.16	15.82	15.11	18.49
11g	6Mbps	2	6	2437	0.16	0.16	16.49	16.16	19.34
11g	6Mbps	2	11	2462	0.16	0.16	15.47	13.74	17.70
HT20	MCS0	2	1	2412	0.20	0.20	15.27	14.37	17.85
HT20	MCS0	2	6	2437	0.20	0.20	16.48	16.17	19.34
HT20	MCS0	2	11	2462	0.20	0.20	15.35	13.33	17.47
HT40	MCS0	2	3	2422	0.29	0.27	10.89	9.72	13.36
HT40	MCS0	2	6	2437	0.29	0.27	15.44	15.11	18.29
HT40	MCS0	2	9	2452	0.29	0.27	10.60	10.10	13.37

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	2	1	2412	-3.12	-4.12	-0.11	7.01		6.99		Pass
11b	1Mbps	2	6	2437	-3.84	-3.91	-0.83	7.01		6.99		Pass
11b	1Mbps	2	11	2462	-3.80	-5.08	-0.79	7.01		6.99		Pass
11g	6Mbps	2	1	2412	-8.77	-10.85	-5.76	7.01		6.99		Pass
11g	6Mbps	2	6	2437	-8.92	-9.04	-5.91	7.01		6.99		Pass
11g	6Mbps	2	11	2462	-10.12	-11.20	-7.11	7.01		6.99		Pass
HT20	MCS0	2	1	2412	-10.46	-11.57	-7.45	7.01		6.99		Pass
HT20	MCS0	2	6	2437	-8.73	-10.21	-5.72	7.01		6.99		Pass
HT20	MCS0	2	11	2462	-11.01	-12.17	-8.00	7.01		6.99		Pass
HT40	MCS0	2	3	2422	-18.33	-17.42	-14.41	7.01		6.99		Pass
HT40	MCS0	2	6	2437	-12.44	-13.42	-9.43	7.01		6.99		Pass
HT40	MCS0	2	9	2452	-17.60	-18.45	-14.59	7.01		6.99		Pass

Measured power density (dBm) has offset with cable loss.



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Marlowe Ho	Temperature :	23~24℃
		Relative Humidity :	63~64%

EUT Information

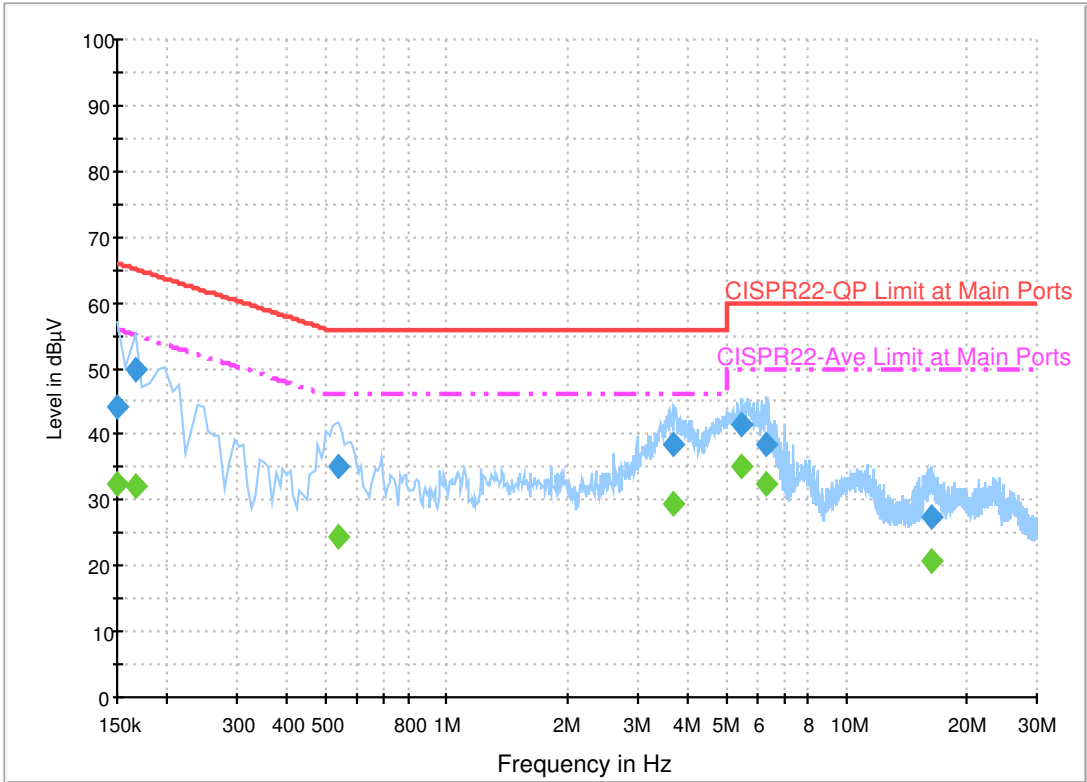
Report NO :741927

Test Mode :Mode 1

Test Voltage :Power Form System

Phase :Line

ENV216 Auto Test-L



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	44.0	Off	L1	19.6	22.0	66.0
0.166000	49.8	Off	L1	19.5	15.4	65.2
0.534000	35.1	Off	L1	19.5	20.9	56.0
3.678000	38.3	Off	L1	19.6	17.7	56.0
5.462000	41.3	Off	L1	19.6	18.7	60.0
6.318000	38.5	Off	L1	19.6	21.5	60.0
16.358000	27.5	Off	L1	19.7	32.5	60.0

Final Result 2

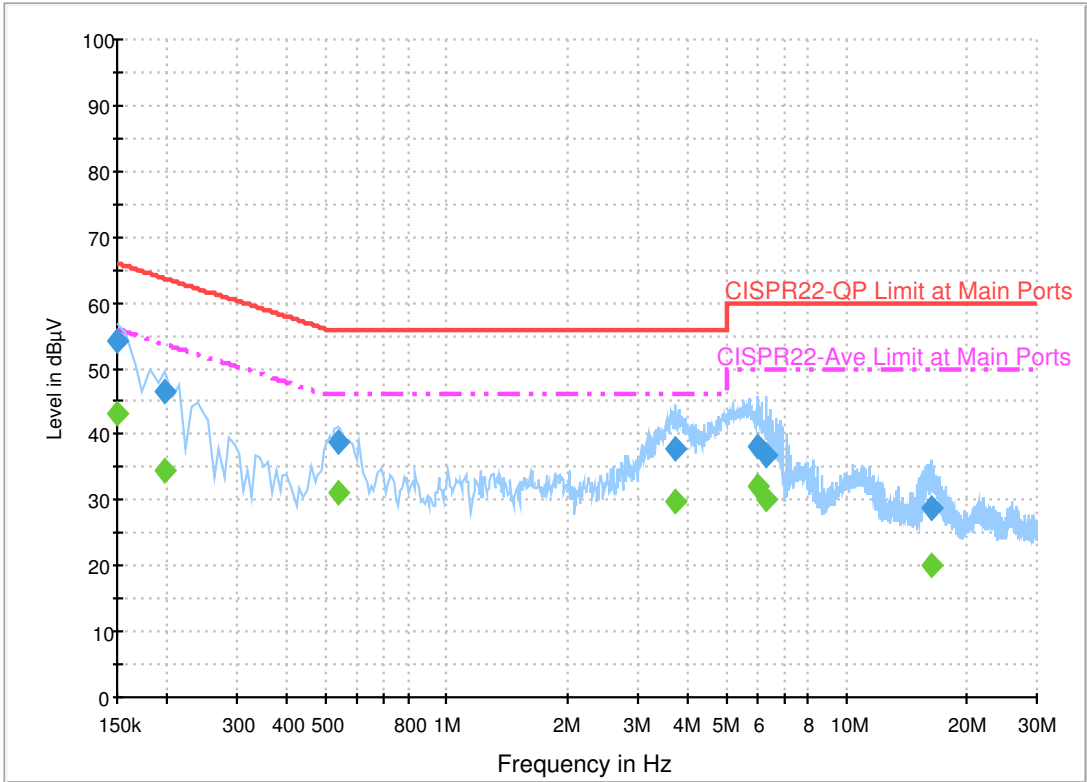
Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	32.6	Off	L1	19.6	23.4	56.0
0.166000	31.9	Off	L1	19.5	23.3	55.2
0.534000	24.3	Off	L1	19.5	21.7	46.0
3.678000	29.5	Off	L1	19.6	16.5	46.0
5.462000	35.1	Off	L1	19.6	14.9	50.0
6.318000	32.3	Off	L1	19.6	17.7	50.0
16.358000	20.9	Off	L1	19.7	29.1	50.0

EUT Information

Report NO :
Test Mode :
Test Voltage :
Phase :

741927
Mode 1
Power Form System
Neutral

ENV216 Auto Test-N



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	54.2	Off	N	19.5	11.8	66.0
0.198000	46.6	Off	N	19.5	17.1	63.7
0.534000	38.9	Off	N	19.5	17.1	56.0
3.726000	37.7	Off	N	19.6	18.3	56.0
6.046000	38.1	Off	N	19.6	21.9	60.0
6.286000	36.8	Off	N	19.6	23.2	60.0
16.262000	28.6	Off	N	19.8	31.4	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	43.1	Off	N	19.5	12.9	56.0
0.198000	34.5	Off	N	19.5	19.2	53.7
0.534000	30.9	Off	N	19.5	15.1	46.0
3.726000	29.7	Off	N	19.6	16.3	46.0
6.046000	32.1	Off	N	19.6	17.9	50.0
6.286000	30.2	Off	N	19.6	19.8	50.0
16.262000	20.1	Off	N	19.8	29.9	50.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Peter Liao, Karl Hou, and Nick Yu	Temperature :	21~24°C
		Relative Humidity :	54~57%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2389.485	72.21	-1.79	74	69.18	27.07	7.45	31.49	165	263	P	H
		2386.23	52.37	-1.63	54	49.35	27.06	7.45	31.49	165	263	A	H
	*	2412	113.94	-	-	110.84	27.14	7.45	31.49	165	263	P	H
	*	2412	109.76	-	-	106.66	27.14	7.45	31.49	165	263	A	H
													H
													H
		2389.905	68.46	-5.54	74	65.43	27.07	7.45	31.49	136	277	P	V
		2386.23	53.35	-0.65	54	50.33	27.06	7.45	31.49	136	277	A	V
	*	2412	113.84	-	-	110.74	27.14	7.45	31.49	136	277	P	V
	*	2412	109.42	-	-	106.32	27.14	7.45	31.49	136	277	A	V
													V
													V
802.11b CH 06 2437MHz		2387.98	65.48	-8.52	74	62.46	27.06	7.45	31.49	169	257	P	H
		2319.94	50.74	-3.26	54	48.09	26.86	7.3	31.51	169	257	A	H
	*	2437	113.66	-	-	110.44	27.21	7.49	31.48	169	257	P	H
	*	2437	109.6	-	-	106.38	27.21	7.49	31.48	169	257	A	H
		2485.79	67.3	-6.7	74	63.88	27.36	7.53	31.47	169	257	P	H
		2483.69	47.59	-6.41	54	44.18	27.35	7.53	31.47	169	257	A	H
		2359.98	64.64	-9.36	74	61.79	26.98	7.37	31.5	100	292	P	V
		2359.98	53.79	-0.21	54	50.94	26.98	7.37	31.5	100	292	A	V
	*	2437	113.22	-	-	110	27.21	7.49	31.48	100	292	P	V
	*	2437	109.2	-	-	105.98	27.21	7.49	31.48	100	292	A	V
		2487.82	64.86	-9.14	74	61.44	27.36	7.53	31.47	100	292	P	V
		2483.76	48.49	-5.51	54	45.08	27.35	7.53	31.47	100	292	A	V



802.11b CH 11 2462MHz	*	2462	114.53	-	-	111.18	27.29	7.53	31.47	168	336	P	H
	*	2462	109.89	-	-	106.54	27.29	7.53	31.47	168	336	A	H
		2483.92	71.69	-2.31	74	68.28	27.35	7.53	31.47	168	336	P	H
		2487.72	53.52	-0.48	54	50.1	27.36	7.53	31.47	168	336	A	H
													H
													H
	*	2462	113.68	-	-	110.33	27.29	7.53	31.47	124	280	P	V
	*	2462	109.39	-	-	106.04	27.29	7.53	31.47	124	280	A	V
		2483.52	69.17	-4.83	74	65.76	27.35	7.53	31.47	124	280	P	V
		2487.68	52.72	-1.28	54	49.3	27.36	7.53	31.47	124	280	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1+2	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)
802.11b CH 01 2412MHz		4824	50.76	-23.24	74	66.15	32.18	10.74	58.31	100	0	P	H
													H
													H
													H
		4824	55.66	-18.34	74	71.05	32.18	10.74	58.31	100	187	P	V
		4824	53.6	-0.4	54	68.99	32.18	10.74	58.31	100	187	A	V
													V
													V
802.11b CH 06 2437MHz		4874	53.16	-20.84	74	68.24	32.27	10.89	58.24	100	218	P	H
		4874	50.76	-3.24	54	65.84	32.27	10.89	58.24	100	218	A	H
		7311	50.92	-23.08	74	58.86	36.97	14.18	59.09	100	0	P	H
													H
		4874	55.92	-18.08	74	71	32.27	10.89	58.24	100	192	P	V
		4874	53.7	-0.3	54	68.78	32.27	10.89	58.24	100	192	A	V
		7311	47.79	-26.21	74	55.73	36.97	14.18	59.09	100	0	P	V
													V
802.11b CH 11 2462MHz		4924	53.91	-20.09	74	68.69	32.36	11.04	58.18	292	316	P	H
		4924	51.6	-2.4	54	66.38	32.36	11.04	58.18	292	316	A	H
		7386	46.9	-27.1	74	54.59	37.18	14.27	59.14	100	0	P	H
													H
		4924	54.85	-19.15	74	69.63	32.36	11.04	58.18	100	194	P	V
		4924	52.66	-1.34	54	67.44	32.36	11.04	58.18	100	194	A	V
		7386	49.3	-24.7	74	56.99	37.18	14.27	59.14	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11g CH 01 2412MHz		2389.8	67.65	-6.35	74	64.62	27.07	7.45	31.49	167	258	P	H
		2390	53.23	-0.77	54	50.2	27.07	7.45	31.49	167	258	A	H
	*	2412	113.2	-	-	110.1	27.14	7.45	31.49	167	258	P	H
	*	2412	102.92	-	-	99.82	27.14	7.45	31.49	167	258	A	H
													H
													H
		2388.96	67.85	-6.15	74	64.82	27.07	7.45	31.49	153	289	P	V
		2388.12	52.74	-1.26	54	49.72	27.06	7.45	31.49	153	289	A	V
	*	2412	111.9	-	-	108.8	27.14	7.45	31.49	153	289	P	V
	*	2412	101.98	-	-	98.88	27.14	7.45	31.49	153	289	A	V
													V
													V
802.11g CH 06 2437MHz		2354.1	60.54	-13.46	74	57.71	26.96	7.37	31.5	111	259	P	H
		2319.94	51.57	-2.43	54	48.92	26.86	7.3	31.51	111	259	A	H
	*	2437	113.11	-	-	109.89	27.21	7.49	31.48	111	259	P	H
	*	2437	103.92	-	-	100.7	27.21	7.49	31.48	111	259	A	H
		2490.34	61.45	-12.55	74	58.02	27.37	7.53	31.47	111	259	P	H
		2484.32	49.44	-4.56	54	46.03	27.35	7.53	31.47	111	259	A	H
		2358.02	60.99	-13.01	74	58.15	26.97	7.37	31.5	100	280	P	V
		2359.84	50.78	-3.22	54	47.93	26.98	7.37	31.5	100	280	A	V
	*	2437	112.53	-	-	109.31	27.21	7.49	31.48	100	280	P	V
	*	2437	102.77	-	-	99.55	27.21	7.49	31.48	100	280	A	V
		2486.21	61.37	-12.63	74	57.95	27.36	7.53	31.47	100	280	P	V
		2483.76	49.79	-4.21	54	46.38	27.35	7.53	31.47	100	280	A	V



802.11g CH 11 2462MHz	*	2462	112.07	-	-	108.72	27.29	7.53	31.47	107	259	P	H
	*	2462	102.01	-	-	98.66	27.29	7.53	31.47	107	259	A	H
		2484.2	69.78	-4.22	74	66.37	27.35	7.53	31.47	107	259	P	H
		2485.36	52.55	-1.45	54	49.13	27.36	7.53	31.47	107	259	A	H
													H
													H
	*	2462	111.5	-	-	108.15	27.29	7.53	31.47	166	283	P	V
	*	2462	101.61	-	-	98.26	27.29	7.53	31.47	166	283	A	V
		2483.72	72.69	-1.31	74	69.28	27.35	7.53	31.47	166	283	P	V
		2483.52	53.58	-0.42	54	50.17	27.35	7.53	31.47	166	283	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1+2	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)
802.11g CH 01 2412MHz		4824	45.31	-28.69	74	60.7	32.18	10.74	58.31	100	0	P	H
													H
													H
													H
		4824	46.01	-27.99	74	61.4	32.18	10.74	58.31	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	45.56	-28.44	74	60.64	32.27	10.89	58.24	100	0	P	H
		7311	50.85	-23.15	74	58.79	36.97	14.18	59.09	100	0	P	H
													H
													H
		4874	48.77	-25.23	74	63.85	32.27	10.89	58.24	100	0	P	V
		7311	57.49	-16.51	74	65.43	36.97	14.18	59.09	100	290	P	V
		7311	35.72	-18.28	54	43.66	36.97	14.18	59.09	100	290	A	V
													V
802.11g CH 11 2462MHz		4924	44.6	-29.4	74	59.38	32.36	11.04	58.18	100	0	P	H
		7386	46.07	-27.93	74	53.76	37.18	14.27	59.14	100	0	P	H
													H
													H
		4924	45.38	-28.62	74	60.16	32.36	11.04	58.18	100	0	P	V
		7386	45.02	-28.98	74	52.71	37.18	14.27	59.14	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	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 01 2412MHz		2389.905	68.54	-5.46	74	65.51	27.07	7.45	31.49	168	260	P	H
		2390	53.67	-0.33	54	50.64	27.07	7.45	31.49	168	260	A	H
	*	2412	112.91	-	-	109.81	27.14	7.45	31.49	168	260	P	H
	*	2412	102.66	-	-	99.56	27.14	7.45	31.49	168	260	A	H
													H
													H
		2389.065	64.85	-9.15	74	61.82	27.07	7.45	31.49	154	289	P	V
		2390	50.65	-3.35	54	47.62	27.07	7.45	31.49	154	289	A	V
	*	2412	110.86	-	-	107.76	27.14	7.45	31.49	154	289	P	V
	*	2412	101.81	-	-	98.71	27.14	7.45	31.49	154	289	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2319.94	60.54	-13.46	74	57.89	26.86	7.3	31.51	100	254	P	H
		2320.08	52.58	-1.42	54	49.93	26.86	7.3	31.51	100	254	A	H
	*	2437	113.77	-	-	110.55	27.21	7.49	31.48	100	254	P	H
	*	2437	103.36	-	-	100.14	27.21	7.49	31.48	100	254	A	H
		2493.28	61.46	-12.54	74	58.01	27.38	7.53	31.46	100	254	P	H
		2488.17	49.46	-4.54	54	46.04	27.36	7.53	31.47	100	254	A	H
		2384.62	60.33	-13.67	74	57.32	27.05	7.45	31.49	147	291	P	V
		2319.94	50.48	-3.52	54	47.83	26.86	7.3	31.51	147	291	A	V
	*	2437	112.64	-	-	109.42	27.21	7.49	31.48	147	291	P	V
	*	2437	103.16	-	-	99.94	27.21	7.49	31.48	147	291	A	V
		2483.9	61.34	-12.66	74	57.93	27.35	7.53	31.47	147	291	P	V
		2483.76	49.51	-4.49	54	46.1	27.35	7.53	31.47	147	291	A	V



802.11n HT20 CH 11 2462MHz	*	2462	111.03	-	-	107.68	27.29	7.53	31.47	140	255	P	H
	*	2462	101.68	-	-	98.33	27.29	7.53	31.47	140	255	A	H
		2484.16	71.33	-2.67	74	67.92	27.35	7.53	31.47	140	255	P	H
		2483.52	53.8	-0.2	54	50.39	27.35	7.53	31.47	140	255	P	H
													H
													H
	*	2462	110.97	-	-	107.62	27.29	7.53	31.47	125	281	P	V
	*	2462	101.33	-	-	97.98	27.29	7.53	31.47	125	281	A	V
		2484.32	69.69	-4.31	74	66.28	27.35	7.53	31.47	125	281	P	V
		2483.84	50.84	-3.16	54	47.43	27.35	7.53	31.47	125	281	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	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 01 2412MHz		4824	43.13	-30.87	74	58.52	32.18	10.74	58.31	100	0	P	H
													H
													H
													H
		4824	45.44	-28.56	74	60.83	32.18	10.74	58.31	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	46.08	-27.92	74	61.16	32.27	10.89	58.24	100	0	P	H
		7311	58.19	-15.81	74	66.13	36.97	14.18	59.09	100	295	P	H
		7311	35.2	-18.8	54	43.14	36.97	14.18	59.09	100	295	A	H
													H
		4874	47.07	-26.93	74	62.15	32.27	10.89	58.24	100	0	P	V
		7311	57.92	-16.08	74	65.86	36.97	14.18	59.09	100	288	P	V
		7311	35.69	-18.31	54	43.63	36.97	14.18	59.09	100	288	A	V
													V
802.11n HT20 CH 11 2462MHz		4924	44.05	-29.95	74	58.83	32.36	11.04	58.18	100	0	P	H
		7386	46.53	-27.47	74	54.22	37.18	14.27	59.14	100	0	P	H
													H
													H
		4924	43.83	-30.17	74	58.61	32.36	11.04	58.18	100	0	P	V
		7386	44.79	-29.21	74	52.48	37.18	14.27	59.14	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2389.94	64.48	-9.52	74	61.45	27.07	7.45	31.49	100	254	P	H
		2386.72	50.55	-3.45	54	47.53	27.06	7.45	31.49	100	254	A	H
	*	2422	104.02	-	-	100.84	27.17	7.49	31.48	100	254	P	H
	*	2422	94.31	-	-	91.13	27.17	7.49	31.48	100	254	A	H
		2484.11	59.39	-14.61	74	55.98	27.35	7.53	31.47	100	254	P	H
		2488.24	47.35	-6.65	54	43.93	27.36	7.53	31.47	100	254	A	H
		2388.96	67.41	-6.59	74	64.38	27.07	7.45	31.49	100	289	P	V
		2389.66	53.55	-0.45	54	50.52	27.07	7.45	31.49	100	289	A	V
	*	2422	103.82	-	-	100.64	27.17	7.49	31.48	100	289	P	V
	*	2422	94.33	-	-	91.15	27.17	7.49	31.48	100	289	A	V
		2487.19	58.28	-15.72	74	54.86	27.36	7.53	31.47	100	289	P	V
		2498.88	47.69	-6.31	54	44.22	27.4	7.53	31.46	100	289	A	V
802.11n HT40 CH 06 2437MHz		2389.24	67.03	-6.97	74	64	27.07	7.45	31.49	111	256	P	H
		2359.98	52.14	-1.86	54	49.29	26.98	7.37	31.5	111	256	A	H
	*	2437	109.95	-	-	106.73	27.21	7.49	31.48	111	256	P	H
	*	2437	100.18	-	-	96.96	27.21	7.49	31.48	111	256	A	H
		2487.05	68.45	-5.55	74	65.03	27.36	7.53	31.47	111	256	P	H
		2489.57	52.77	-1.23	54	49.34	27.37	7.53	31.47	111	256	A	H
		2385.46	66.44	-7.56	74	63.42	27.06	7.45	31.49	100	281	P	V
		2385.88	51.49	-2.51	54	48.47	27.06	7.45	31.49	100	281	A	V
	*	2437	108.41	-	-	105.19	27.21	7.49	31.48	100	281	P	V
	*	2437	99.07	-	-	95.85	27.21	7.49	31.48	100	281	A	V
		2484.53	71.48	-2.52	74	68.07	27.35	7.53	31.47	100	281	P	V
		2483.5	52.35	-1.65	54	48.94	27.35	7.53	31.47	100	281	A	V



802.11n HT40 CH 09 2452MHz		2364.04	57.83	-16.17	74	54.97	26.99	7.37	31.5	166	264	P	H
		2359.98	48.08	-5.92	54	45.23	26.98	7.37	31.5	166	264	A	H
	*	2450	103.74	-	-	100.47	27.25	7.49	31.47	166	264	P	H
	*	2448	94.51	-	-	91.25	27.24	7.49	31.47	166	264	A	H
		2483.48	67.24	-82.76	150	63.83	27.35	7.53	31.47	166	264	P	H
		2483.76	53.25	-0.75	54	49.84	27.35	7.53	31.47	166	264	A	H
		2383.22	57.37	-16.63	74	54.36	27.05	7.45	31.49	100	287	P	V
		2359.98	47.72	-6.28	54	44.87	26.98	7.37	31.5	100	287	A	V
	*	2452	103.55	-	-	100.27	27.26	7.49	31.47	100	287	P	V
	*	2452	94.46	-	-	91.18	27.26	7.49	31.47	100	287	A	V
		2483.76	65.43	-8.57	74	62.02	27.35	7.53	31.47	100	287	P	V
		2483.5	51.47	-2.53	54	48.06	27.35	7.53	31.47	100	287	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		4844	37.84	-36.16	74	53.17	32.22	10.74	58.29	100	0	P	H
		7266	43.46	-30.54	74	51.55	36.84	14.14	59.07	100	0	P	H
													H
													H
		4844	38.74	-35.26	74	54.07	32.22	10.74	58.29	100	0	P	V
		7266	42.82	-31.18	74	50.91	36.84	14.14	59.07	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4874	41.18	-32.82	74	56.26	32.27	10.89	58.24	100	0	P	H
		7311	44.9	-29.1	74	52.84	36.97	14.18	59.09	100	0	P	H
													H
													H
		4874	43.39	-30.61	74	58.47	32.27	10.89	58.24	100	0	P	V
		7311	43.01	-30.99	74	50.95	36.97	14.18	59.09	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4904	38.25	-35.75	74	53.08	32.33	11.04	58.2	100	0	P	H
		7356	44.63	-29.37	74	52.43	37.1	14.22	59.12	100	0	P	H
													H
													H
		4904	39.14	-34.86	74	53.97	32.33	11.04	58.2	100	0	P	V
		7356	44.18	-29.82	74	51.98	37.1	14.22	59.12	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		67.53	35.22	-4.78	40	54.41	12.2	1.06	32.45	-	-	P	H
		180.12	38.62	-4.88	43.5	54.03	15.3	1.7	32.41	-	-	P	H
		190.11	38.77	-4.73	43.5	54.18	15.3	1.7	32.41	-	-	P	H
		329.4	38.1	-7.9	46	47.64	20.39	2.34	32.27	-	-	P	H
		374.9	42.26	-3.74	46	50.54	21.61	2.44	32.33	100	0	P	H
		389.6	41.42	-4.58	46	49.14	21.96	2.68	32.36	-	-	P	H
													H
													H
													H
													H
													H
													H
		67.53	36.07	-3.93	40	55.26	12.2	1.06	32.45	-	-	P	V
		184.98	38.03	-5.47	43.5	53.44	15.3	1.7	32.41	-	-	P	V
		190.11	39.52	-3.98	43.5	54.93	15.3	1.7	32.41	-	-	P	V
		374.9	42.79	-3.21	46	51.07	21.61	2.44	32.33	100	0	P	V
		389.6	40.74	-5.26	46	48.46	21.96	2.68	32.36	-	-	P	V
		945.4	33.67	-12.33	46	29.9	30.19	4.75	31.17	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



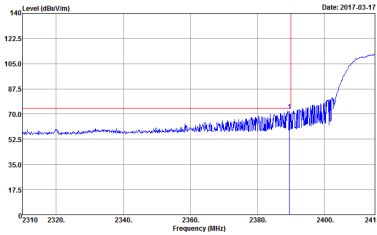
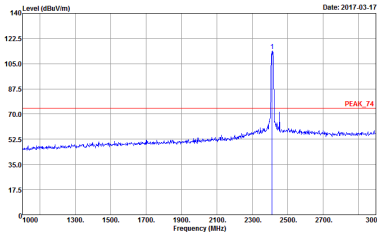
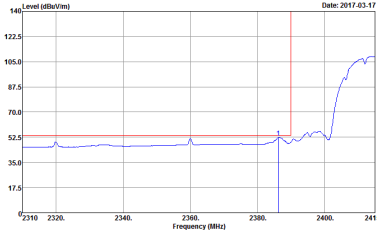
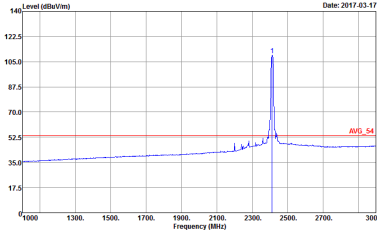
Appendix D. Radiated Spurious Emission Plots

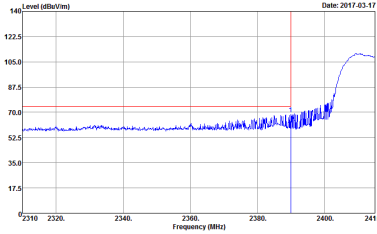
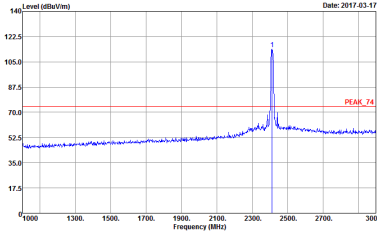
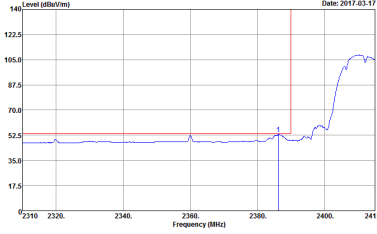
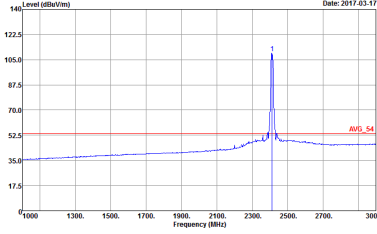
Test Engineer :	Peter Liao, Karl Hou, and Nick Yu	Temperature :	21~24°C
		Relative Humidity :	54~57%

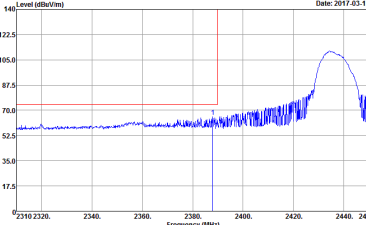
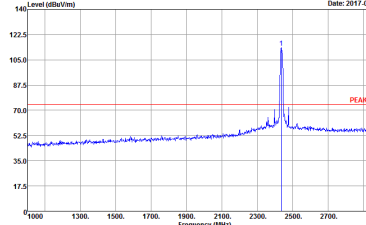
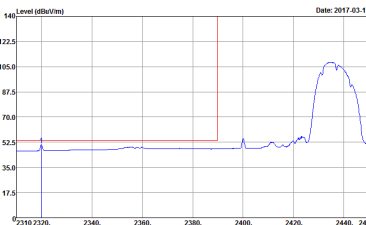
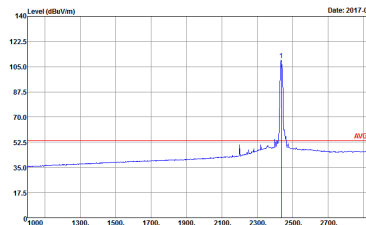
Note symbol

-L	Low channel location
-R	High channel location

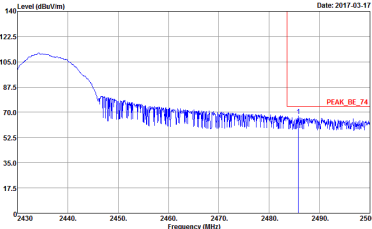
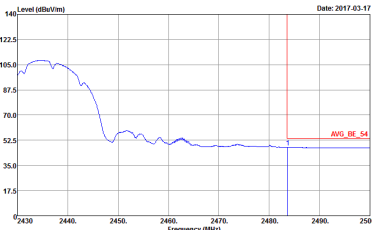
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

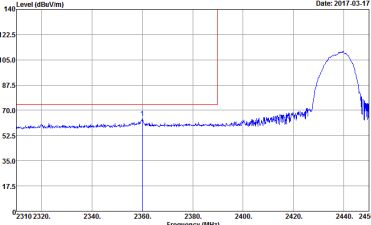
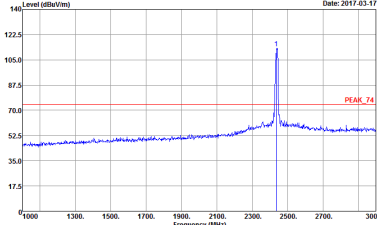
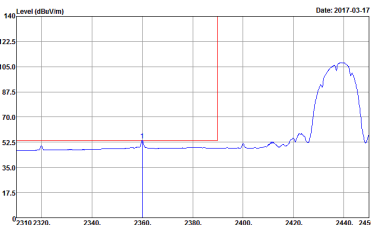
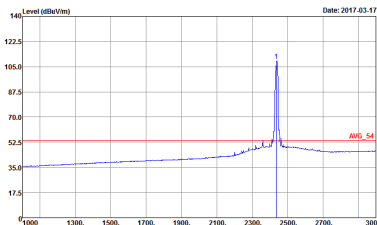
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART_金剛 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch01 Setting : 19 Plane : Z Accessory : Adapter(NB)	 Site Condition : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART_金剛 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch01 Setting : 19 Plane : Z Accessory : Adapter(NB)
Avg.	 Site Condition : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART_金剛 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch01 Setting : 19 Plane : Z Accessory : Adapter(NB)	 Site Condition : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART_金剛 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch01 Setting : 19 Plane : Z Accessory : Adapter(NB)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch01 Setting : 19 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch01 Setting : 19 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch01 Setting : 19 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch01 Setting : 19 Plane : Z Accessory : Adapter(NB)

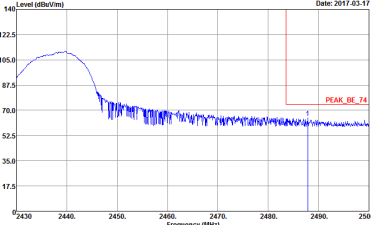
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch06 Setting : 18.5 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch06 Setting : 18.5 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch06 Setting : 18.5 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch06 Setting : 18.5 Plane : Z Accessory : Adapter(NB)

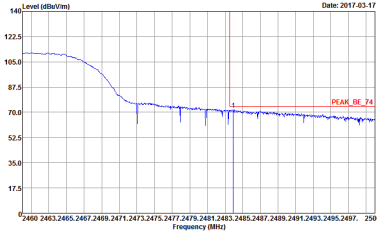
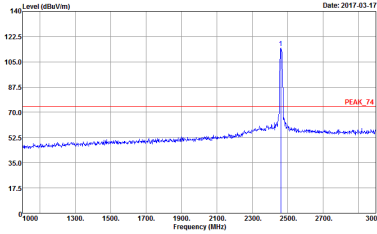
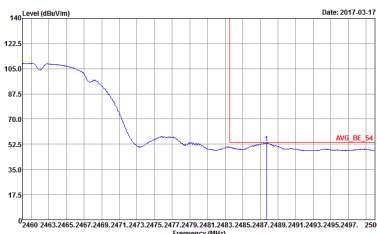
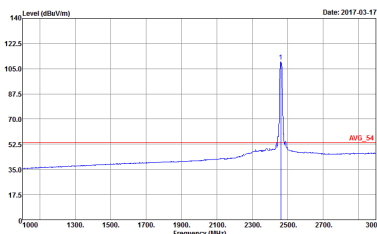


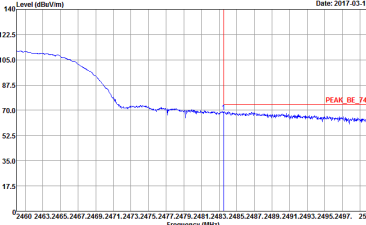
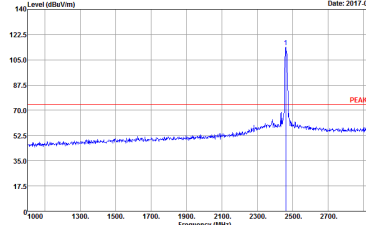
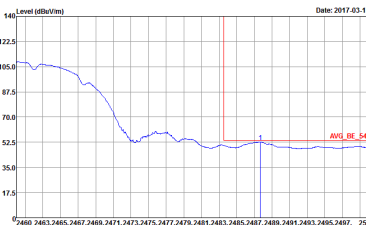
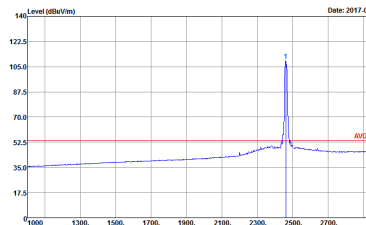
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch06 Setting : 18.5 Plane : Z Accessory : Adapter(NB)	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch06 Setting : 18.5 Plane : Z Accessory : Adapter(NB)	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch06 Setting : 18.5 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch06 Setting : 18.5 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch06 Setting : 18.5 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch06 Setting : 18.5 Plane : Z Accessory : Adapter(NB)

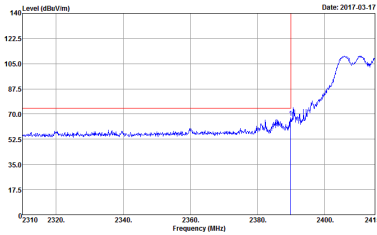
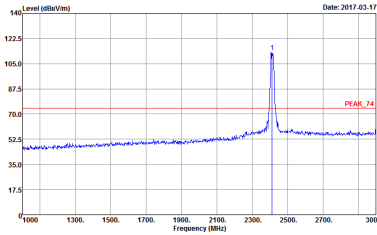
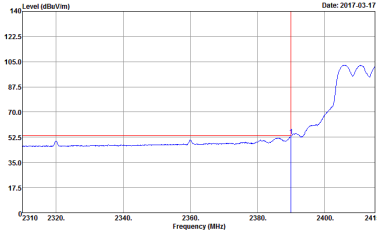
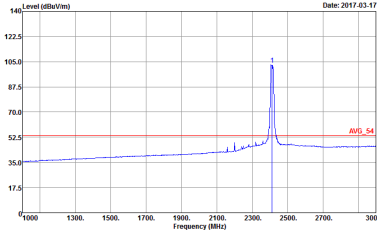


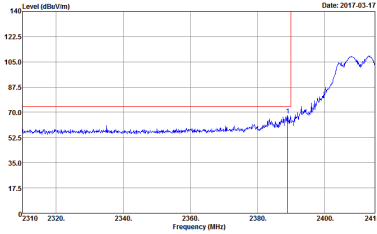
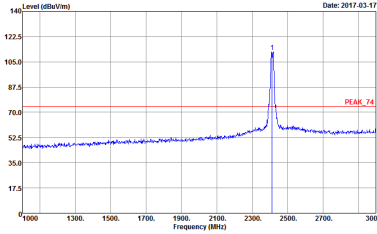
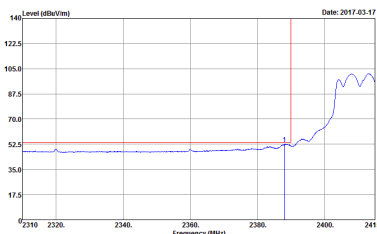
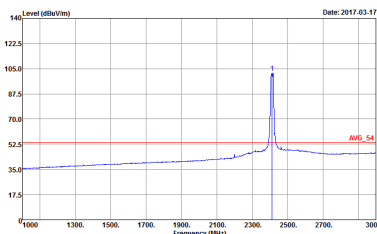
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART 盒體 SN : airRouter-ISP Data Rate : 1703A0418D6A21471 Mode : 1M Setting : 11b_Tx_Ch06 Phase : 18.5 Accessory : Z Adapter(NB)	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART 盒體 SN : airRouter-ISP Data Rate : 1703A0418D6A21471 Mode : 1M Setting : 11b_Tx_Ch06 Phase : 18.5 Accessory : Z Adapter(NB)	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch11 Setting : 18 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch11 Setting : 18 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch11 Setting : 18 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch11 Setting : 18 Plane : Z Accessory : Adapter(NB)

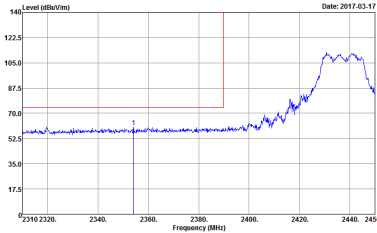
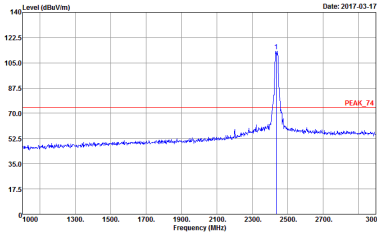
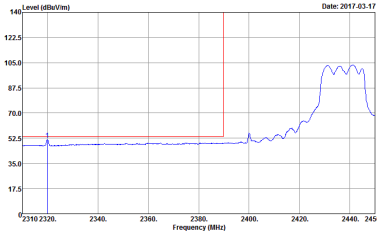
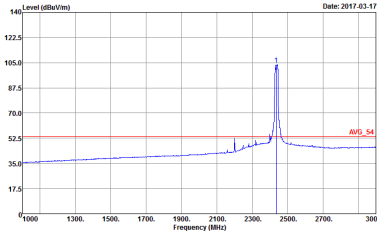
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch11 Setting : 18 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch11 Setting : 18 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch11 Setting : 18 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch11 Setting : 18 Plane : Z Accessory : Adapter(NB)

2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

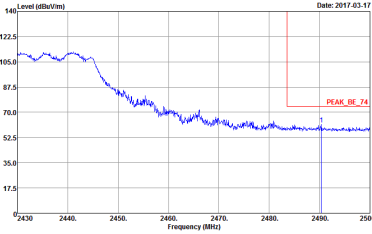
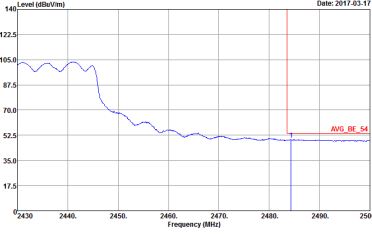
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_金剛 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch01 Setting : 14 Plane : Z Accessory : Adapter(NB)	 Site Condition : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_金剛 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch01 Setting : 14 Plane : Z Accessory : Adapter(NB)
Avg.	 Site Condition : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_金剛 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch01 Setting : 14 Plane : Z Accessory : Adapter(NB)	 Site Condition : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_金剛 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch01 Setting : 14 Plane : Z Accessory : Adapter(NB)

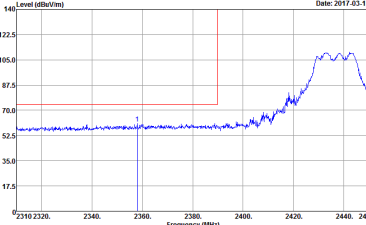
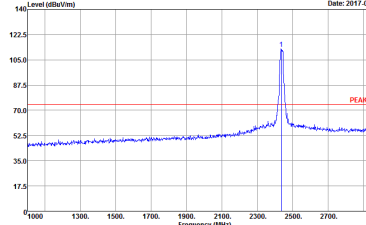
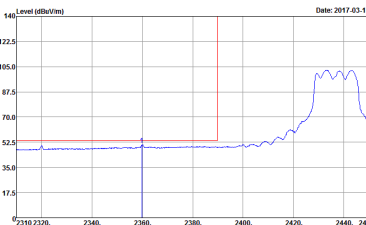
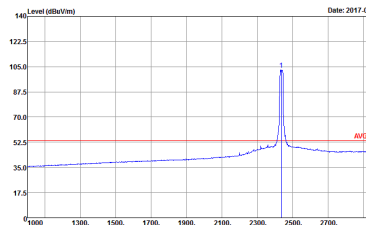
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : airRouter-ISP SN : 1703A0418D6A21471 Mode : 6M Setting : 14g_Ch01 Plane : 14 Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : airRouter-ISP SN : 1703A0418D6A21471 Mode : 6M Setting : 14g_Ch01 Plane : 14 Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:1.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : airRouter-ISP SN : 1703A0418D6A21471 Mode : 6M Setting : 14g_Ch01 Plane : 14 Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:1.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : airRouter-ISP SN : 1703A0418D6A21471 Mode : 6M Setting : 14g_Ch01 Plane : 14 Accessory : Adapter(NB)



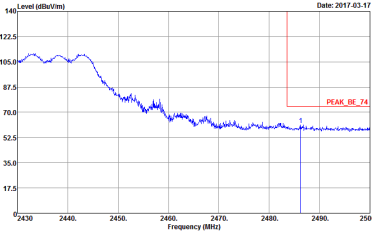
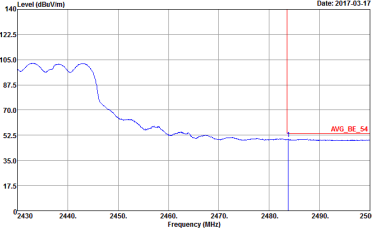
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : 1703A0418D6A21471 SN : 6M Mode : 11g_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : 1703A0418D6A21471 SN : 6M Mode : 11g_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : 1703A0418D6A21471 SN : 6M Mode : 11g_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : 1703A0418D6A21471 SN : 6M Mode : 11g_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)

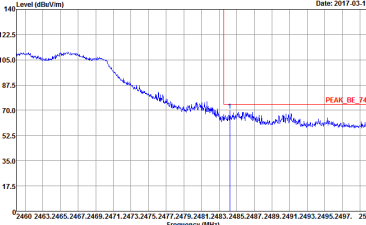
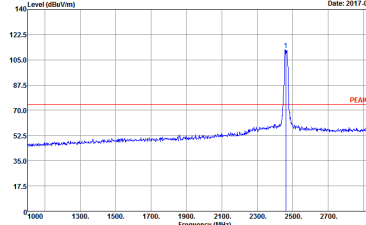
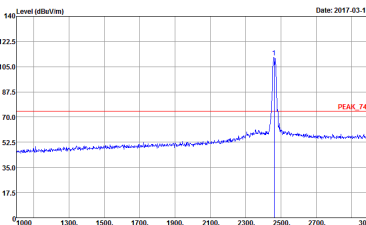
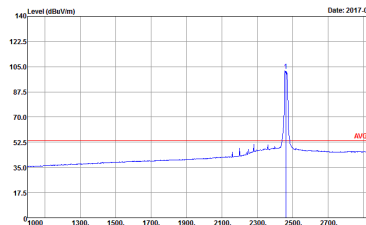
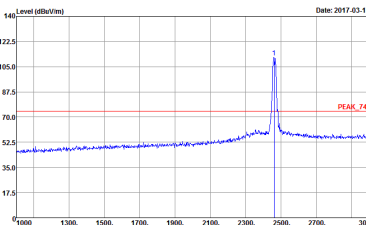
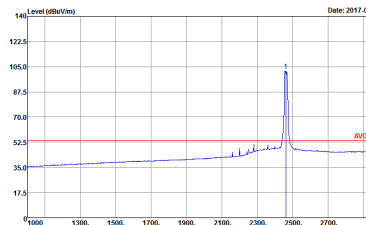
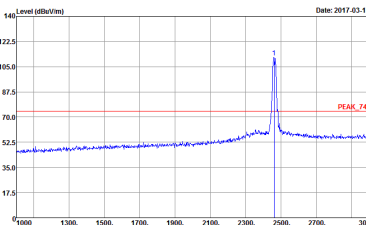
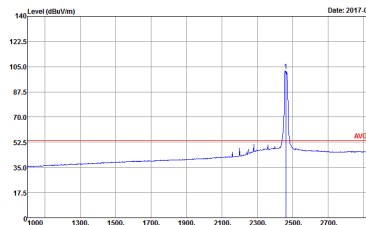


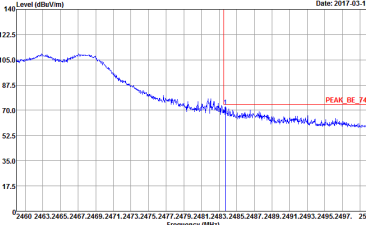
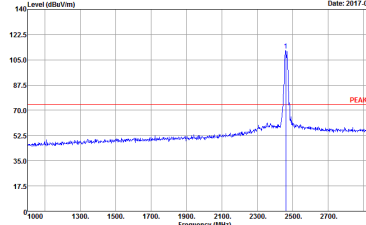
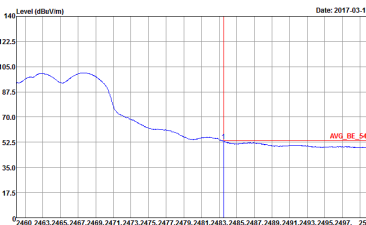
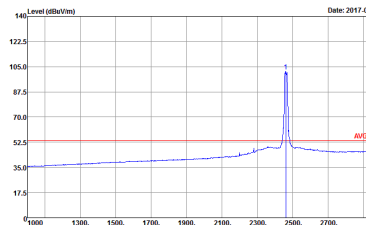
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 含稅 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 含稅 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART 盒體 SN : airRouter-ISP Data Rate : 1703A0418D6A21471 Mode : 6M Setting : 11g_Tx_Ch06 Plane : 15 Accessory : Z Adapter(NB)	Left Blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART 盒體 SN : airRouter-ISP Data Rate : 1703A0418D6A21471 Mode : 6M Setting : 11g_Tx_Ch06 Plane : 15 Accessory : Z Adapter(NB)	Left Blank

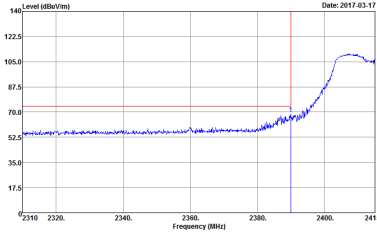
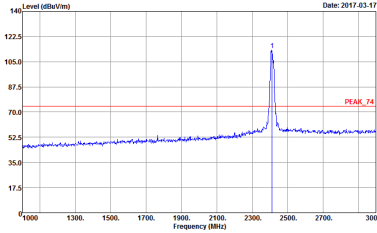
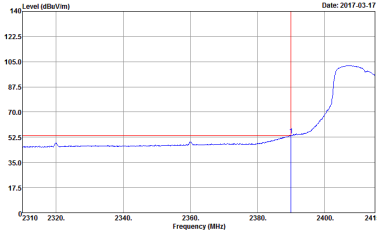
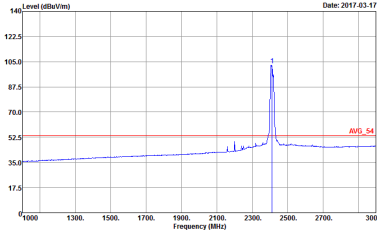
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch11 Setting : 13 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch11 Setting : 13 Plane : Z Accessory : Adapter(NB)
	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch11 Setting : 13 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch11 Setting : 13 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch11 Setting : 13 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch11 Setting : 13 Plane : Z Accessory : Adapter(NB)
	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch11 Setting : 13 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch11 Setting : 13 Plane : Z Accessory : Adapter(NB)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : airRouter-ISP SN : 1703A0418D6A21471 Mode : 6M Setting : 11g_Tx_Ch11 Plane : 13 Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : airRouter-ISP SN : 1703A0418D6A21471 Mode : 6M Setting : 11g_Tx_Ch11 Plane : 13 Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:1.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : airRouter-ISP SN : 1703A0418D6A21471 Mode : 6M Setting : 11g_Tx_Ch11 Plane : 13 Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:1.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : airRouter-ISP SN : 1703A0418D6A21471 Mode : 6M Setting : 11g_Tx_Ch11 Plane : 13 Accessory : Adapter(NB)

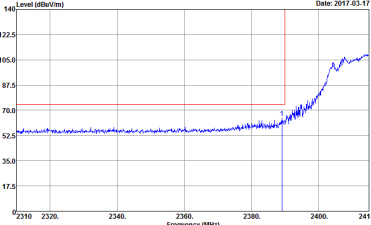
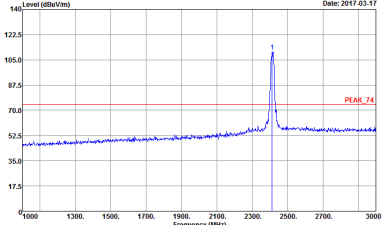
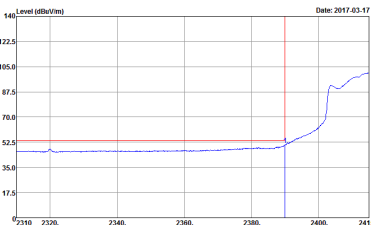
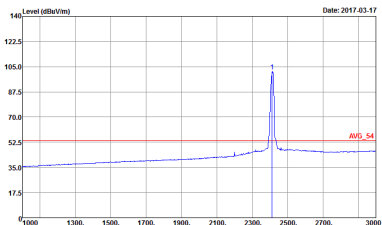


2.4GHz 2400~2483.5MHz

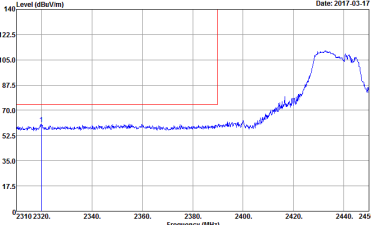
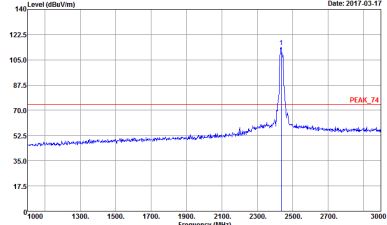
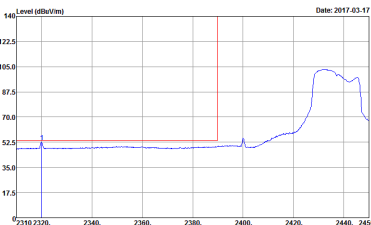
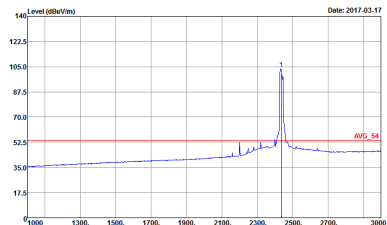
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_金器 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MC30 Mode : 11g(n20)_Tx_Ch01 Setting : 13.5 Plane : Z Accessory : Adapter(NB)	 Site Condition : 03CH12-HY PEAK_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_金器 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MC30 Mode : 11g(n20)_Tx_Ch01 Setting : 13.5 Plane : Z Accessory : Adapter(NB)
Avg.	 Site Condition : 03CH12-HY AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_金器 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MC30 Mode : 11g(n20)_Tx_Ch01 Setting : 13.5 Plane : Z Accessory : Adapter(NB)	 Site Condition : 03CH12-HY AVG_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_金器 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MC30 Mode : 11g(n20)_Tx_Ch01 Setting : 13.5 Plane : Z Accessory : Adapter(NB)

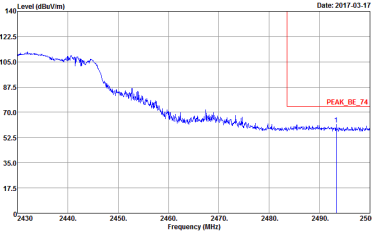
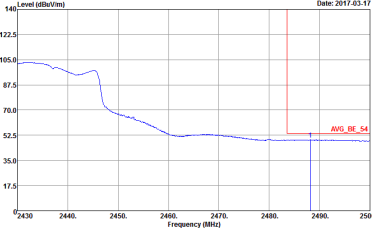


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch01 Setting : 13.5 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch01 Setting : 13.5 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch01 Setting : 13.5 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_24G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch01 Setting : 13.5 Plane : Z Accessory : Adapter(NB)

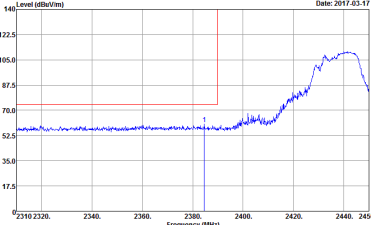
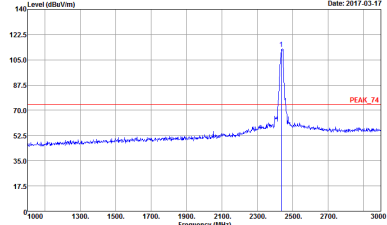
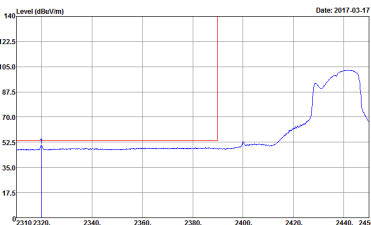
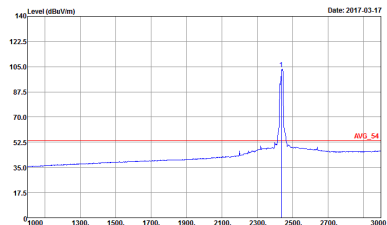


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)

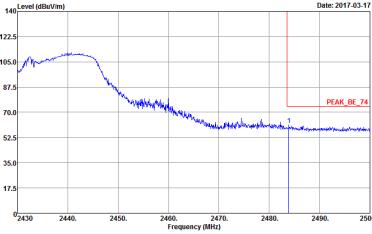
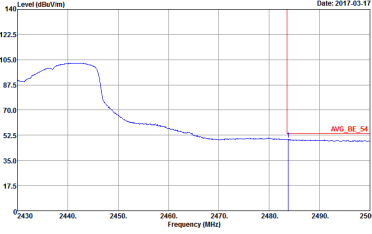


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_24G ART 盒體 SN : airRouter-ISP Data Rate : 1703A0418D6A21471 Mode : MCS0 Setting : 11g(n20)_Tx_Ch06 Plane : 15 Accessory : Z Adapter(NB)	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_24G ART 盒體 SN : airRouter-ISP Data Rate : 1703A0418D6A21471 Mode : MCS0 Setting : 11g(n20)_Tx_Ch06 Plane : 15 Accessory : Z Adapter(NB)	Left blank

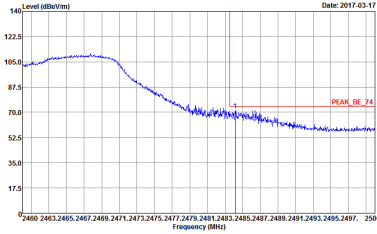
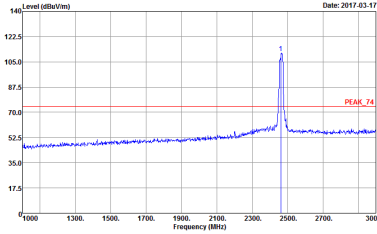
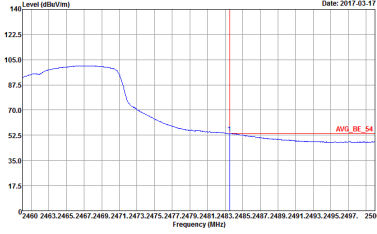
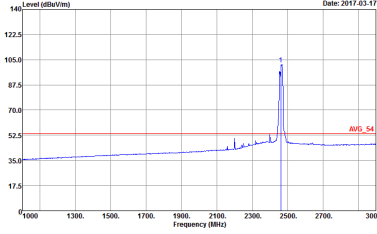


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Pretest : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak EUT : #W171161 Model : #2_24G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Pretest : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak EUT : #W171161 Model : #2_24G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Pretest : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak EUT : #W171161 Model : #2_24G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Pretest : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak EUT : #W171161 Model : #2_24G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch06 Setting : 15 Plane : Z Accessory : Adapter(NB)

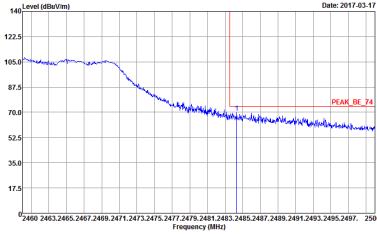
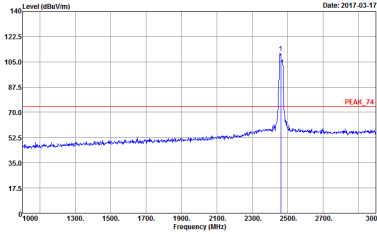
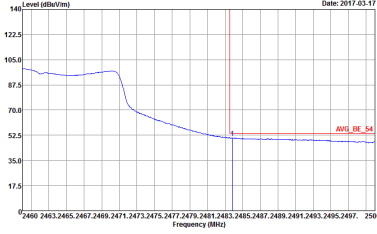
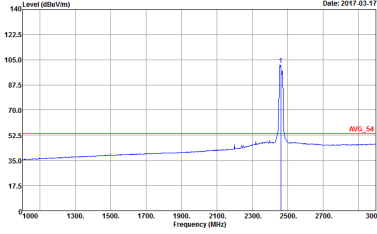


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART 盒體 SN : airRouter-ISP Data Rate : 1703A0418D6A21471 Mode : MCS0 Setting : 11g(n20)_Tx_Ch06 Plane : 15 Accessory : 2 Adapter(NB)	Left Blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART 盒體 SN : airRouter-ISP Data Rate : 1703A0418D6A21471 Mode : MCS0 Setting : 11g(n20)_Tx_Ch06 Plane : 15 Accessory : 2 Adapter(NB)	Left Blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : airRouter-ISP SN : 1703A0418D6A21471 Mode : MCS0 Setting : 11g(n20)_Tx_Ch11 Plane : 12.5 Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : airRouter-ISP SN : 1703A0418D6A21471 Mode : MCS0 Setting : 11g(n20)_Tx_Ch11 Plane : 12.5 Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : RBW:1000.000kHz VBW:1.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : airRouter-ISP SN : 1703A0418D6A21471 Mode : MCS0 Setting : 11g(n20)_Tx_Ch11 Plane : 12.5 Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : RBW:1000.000kHz VBW:1.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : airRouter-ISP SN : 1703A0418D6A21471 Mode : MCS0 Setting : 11g(n20)_Tx_Ch11 Plane : 12.5 Accessory : Adapter(NB)

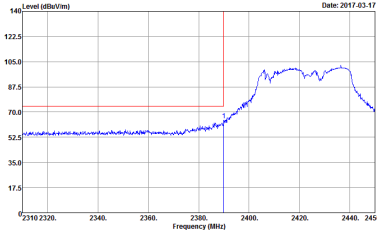
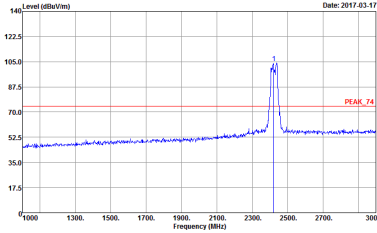
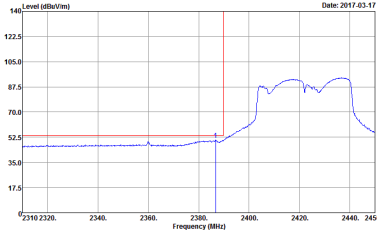
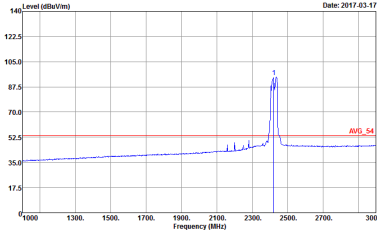


WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch11 Setting : 12.5 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch11 Setting : 12.5 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:1.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch11 Setting : 12.5 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:1.000kHz SWT:Auto EUT : #W171161 Model : #2_24G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch11 Setting : 12.5 Plane : Z Accessory : Adapter(NB)

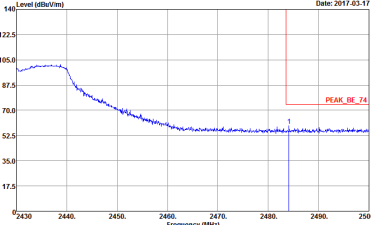
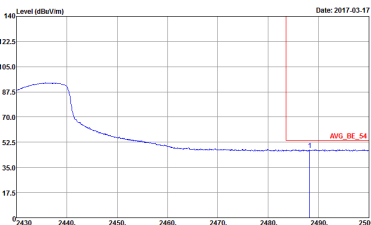


2.4GHz 2400~2483.5MHz

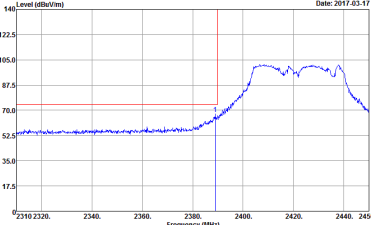
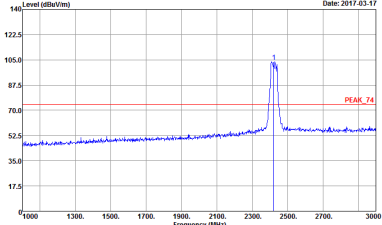
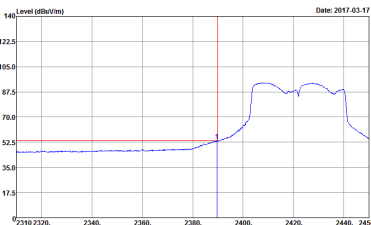
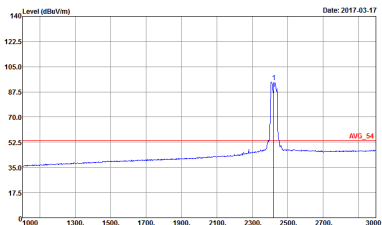
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_金剛 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch03 Setting : 9 Plane : Z Accessory : Adapter(NB)	 Site Condition : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_金剛 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch03 Setting : 9 Plane : Z Accessory : Adapter(NB)
Avg.	 Site Condition : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_金剛 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch03 Setting : 9 Plane : Z Accessory : Adapter(NB)	 Site Condition : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_金剛 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch03 Setting : 9 Plane : Z Accessory : Adapter(NB)

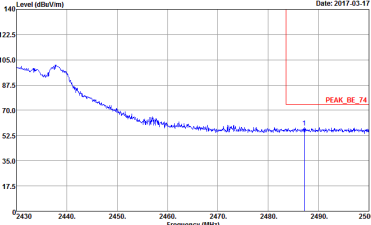
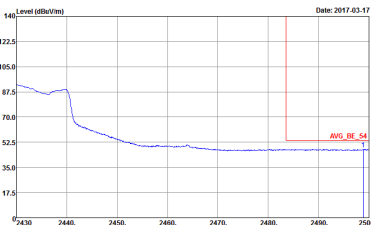


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch03 Setting : 9 Plane : Z Accessory : Adapter(NB)	Left Blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch03 Setting : 9 Plane : Z Accessory : Adapter(NB)	Left Blank

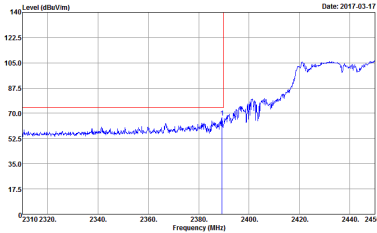
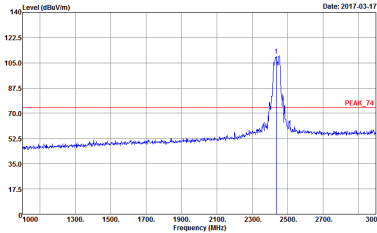
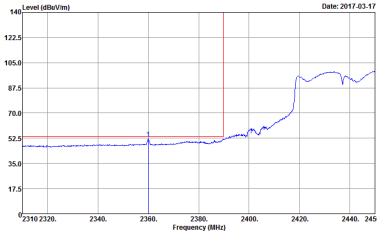
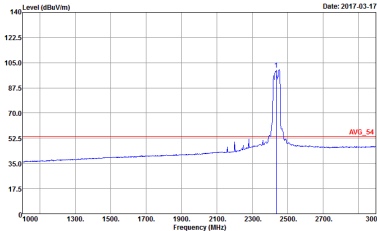


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch03 Setting : 9 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch03 Setting : 9 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch03 Setting : 9 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch03 Setting : 9 Plane : Z Accessory : Adapter(NB)

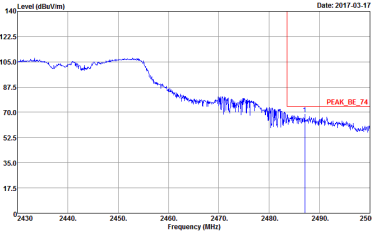
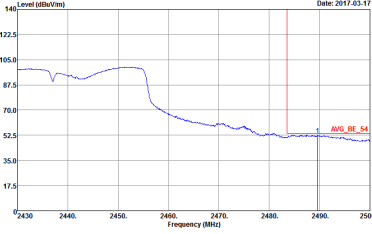


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART_会 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch03 Setting : 9 Plane : Z Accessory : Adapter(NB)	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART_会 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch03 Setting : 9 Plane : Z Accessory : Adapter(NB)	Left blank

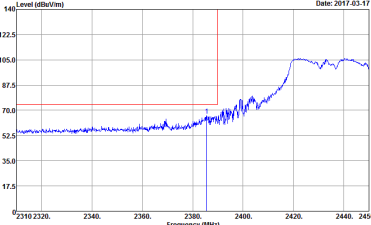
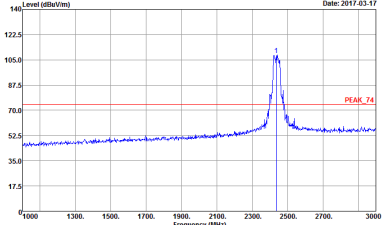
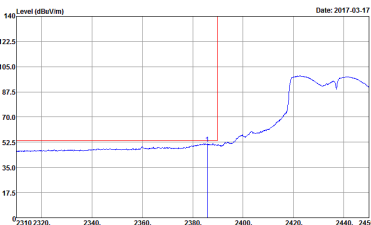
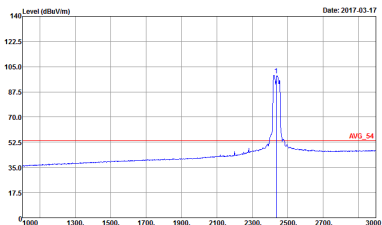


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : 1703A0418D6A21471 SN : M350 Mode : 11g(n40)_Tx_Ch06 Setting : 13.5 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : 1703A0418D6A21471 SN : M350 Mode : 11g(n40)_Tx_Ch06 Setting : 13.5 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : 1703A0418D6A21471 SN : M350 Mode : 11g(n40)_Tx_Ch06 Setting : 13.5 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_24G ART 盒體 Data Rate : 1703A0418D6A21471 SN : M350 Mode : 11g(n40)_Tx_Ch06 Setting : 13.5 Plane : Z Accessory : Adapter(NB)

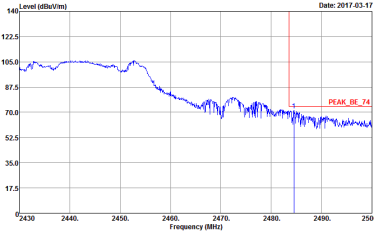
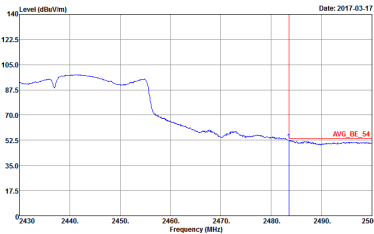


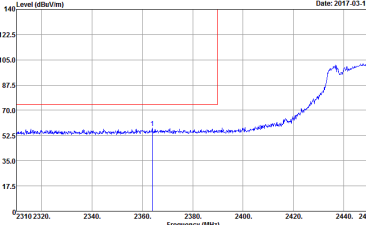
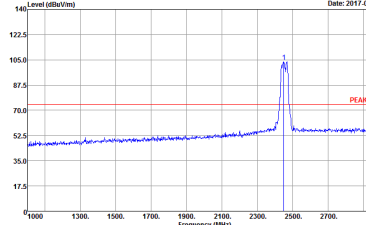
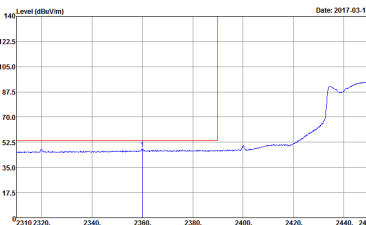
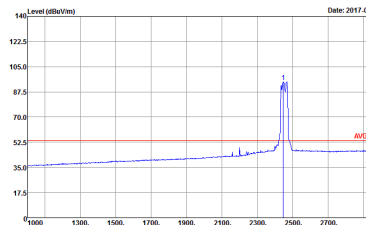
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART 盒體 SN : #1703AD418D6A21471 Data Rate : 1703AD418D6A21471 Mode : 11g(n40)_Tx_Ch06 Setting : 13.5 Plane : Z Accessory : Adapter(NB)	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART 盒體 SN : #1703AD418D6A21471 Data Rate : 1703AD418D6A21471 Mode : 11g(n40)_Tx_Ch06 Setting : 13.5 Plane : Z Accessory : Adapter(NB)	Left blank



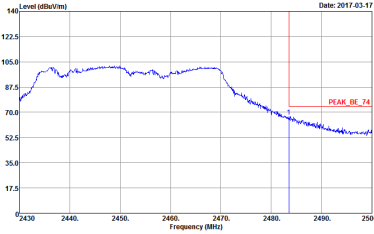
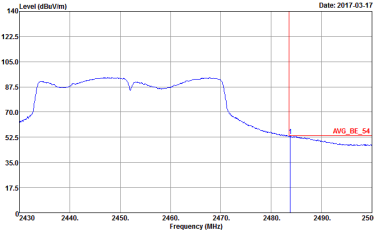
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_24G ART 盒體 SN : airRouter-ISP Data Rate : 1703A0418D6A21471 Mode : MCS0 Setting : 11g(n40)_Tx_Ch06 Plane : 13.5 Accessory : Z Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_24G ART 盒體 SN : airRouter-ISP Data Rate : 1703A0418D6A21471 Mode : MCS0 Setting : 11g(n40)_Tx_Ch06 Plane : 13.5 Accessory : Z Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_24G ART 盒體 SN : airRouter-ISP Data Rate : 1703A0418D6A21471 Mode : MCS0 Setting : 11g(n40)_Tx_Ch06 Plane : 13.5 Accessory : Z Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_24G ART 盒體 SN : airRouter-ISP Data Rate : 1703A0418D6A21471 Mode : MCS0 Setting : 11g(n40)_Tx_Ch06 Plane : 13.5 Accessory : Z Adapter(NB)



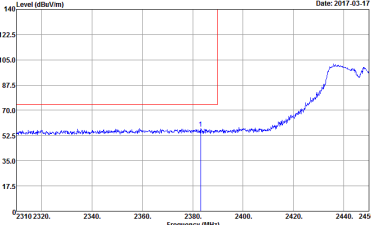
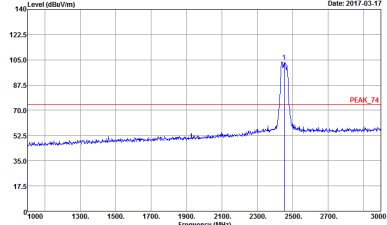
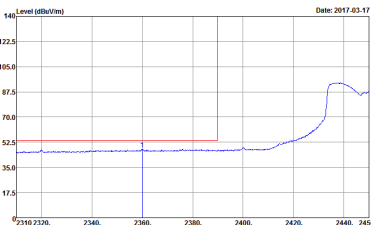
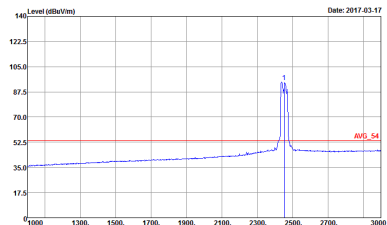
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART 盒體 SN : 1703AD418D6A21471 Data Rate : 1703AD418D6A21471 Mode : 11g(n40)_Tx_Ch06 Setting : 13.5 Plane : Z Accessory : Adapter(NB)	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART 盒體 SN : 1703AD418D6A21471 Data Rate : 1703AD418D6A21471 Mode : 11g(n40)_Tx_Ch06 Setting : 13.5 Plane : Z Accessory : Adapter(NB)	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch09 Setting : 9 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch09 Setting : 9 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch09 Setting : 9 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART 盒體 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch09 Setting : 9 Plane : Z Accessory : Adapter(NB)

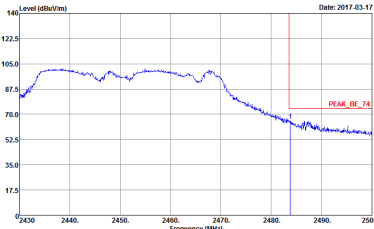
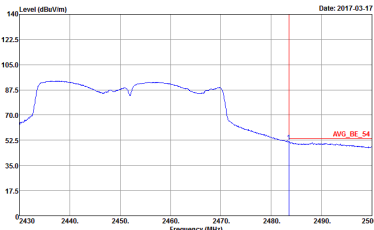


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch09 Setting : 9 Plane : Z Accessory : Adapter(NB)	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch09 Setting : 9 Plane : Z Accessory : Adapter(NB)	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto EUT : #W171161 Model : #2_2-4G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch09 Setting : 9 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto EUT : #W171161 Model : #2_2-4G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch09 Setting : 9 Plane : Z Accessory : Adapter(NB)
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:3.000kHz SWT:Auto EUT : #W171161 Model : #2_2-4G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch09 Setting : 9 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : RBW:1000.000kHz VBW:3.000kHz SWT:Auto EUT : #W171161 Model : #2_2-4G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch09 Setting : 9 Plane : Z Accessory : Adapter(NB)

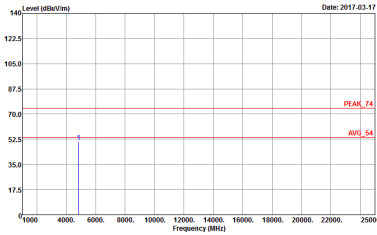
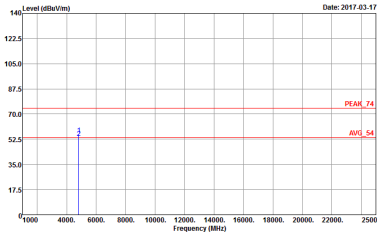


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch09 Setting : 9 Plane : Z Accessory : Adapter(NB)	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Pretest : Peak EUT : #W171161 Model : #2_2.4G ART 盒體 SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch09 Setting : 9 Plane : Z Accessory : Adapter(NB)	Left blank

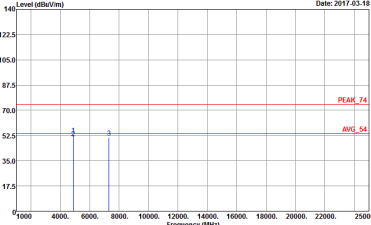
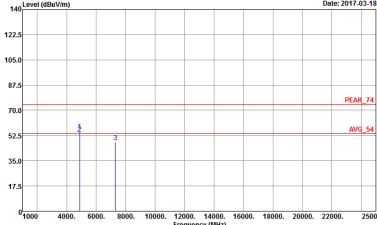


2.4GHz 2400~2483.5MHz

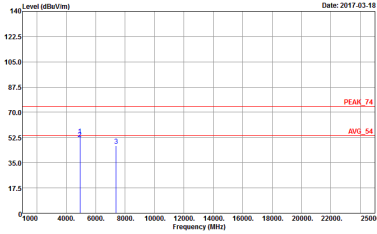
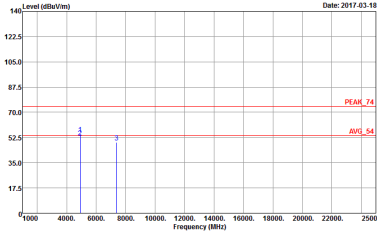
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_合格 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b, Tx, Ch01 Setting : 19 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_合格 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b, Tx, Ch01 Setting : 19 Plane : Z Accessory : Adapter(NB)



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_盒體 Model : airRouter ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch06 Setting : 18.5 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_盒體 Model : airRouter ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch06 Setting : 18.5 Plane : Z Accessory : Adapter(NB)



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch11 Setting : 18 Plane : Z Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter ISP SN : 1703A0418D6A21471 Data Rate : 1M Mode : 11b_Tx_Ch11 Setting : 18 Plane : Z Accessory : Adapter(NB)



2.4GHz 2400~2483.5MHz

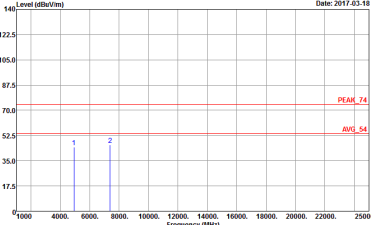
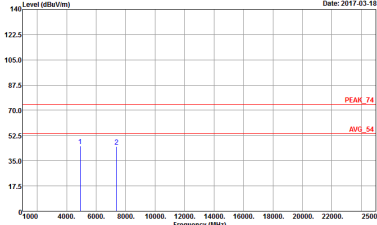
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2017-03-18 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART_合格 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch01 Setting : 14 Plane : 2 Accessory : Adapter(NB)	Level (dBuV/m) Date: 2017-03-18 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2-4G ART_合格 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch01 Setting : 14 Plane : 2 Accessory : Adapter(NB)



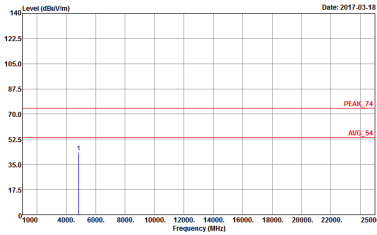
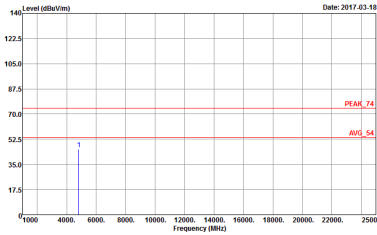
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_盒體 Model : airRouter ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch06 Setting : 15 Plane : 2 Accessory : Adapter(NB)	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_盒體 Model : airRouter ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch06 Setting : 15 Plane : 2 Accessory : Adapter(NB)



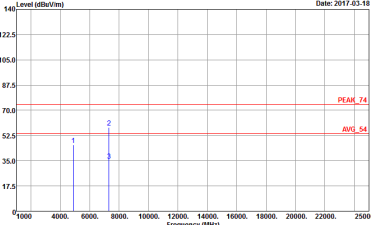
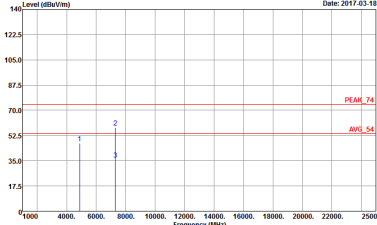
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_盒體 Model : airRouter ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch11 Setting : 13 Plane : 2 Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_盒體 Model : airRouter ISP SN : 1703A0418D6A21471 Data Rate : 6M Mode : 11g_Tx_Ch11 Setting : 13 Plane : 2 Accessory : Adapter(NB)

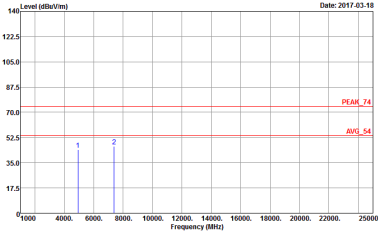
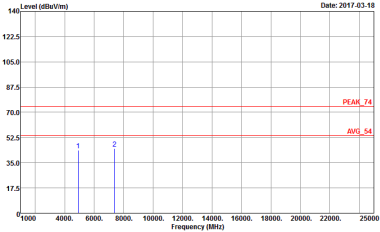


2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

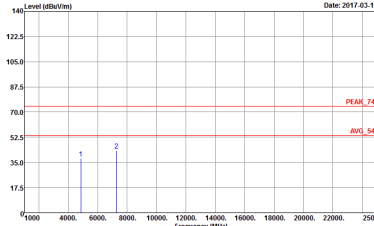
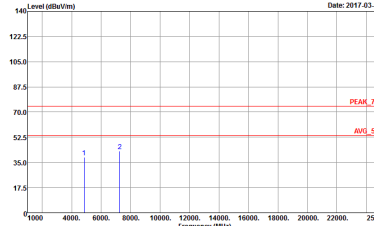
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_含稅 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MC30 Mode : 11g(n20)_Tx_Ch01 Setting : 13.5 Plane : 2 Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_含稅 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MC30 Mode : 11g(n20)_Tx_Ch01 Setting : 13.5 Plane : 2 Accessory : Adapter(NB)



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch06 Setting : 15 Plane : 2 Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART 盒體 Model : airRouter ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch06 Setting : 15 Plane : 2 Accessory : Adapter(NB)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03GH12-HY Condition : PEAK 79.3m HORN_9120D_132B HORIZONTAL Detector : Peak Pretest : #W171561 EUT : #2_24G ART_盒類 Model : airRouter ISP SN : 17U3A041HE0A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch11 Setting : 12.5 Plane : Z Accessory : Adapter(NB)	 Site : 03GH12-HY Condition : PEAK 79.3m HORN_9120D_132B VERTICAL Detector : Peak Pretest : #W171561 EUT : #2_24G ART_盒類 Model : airRouter ISP SN : 17U3A041HE0A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_Ch11 Setting : 12.5 Plane : Z Accessory : Adapter(NB)

2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_合格 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch03 Setting : 9 Plane : 2 Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_合格 Model : airRouter-ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch03 Setting : 9 Plane : 2 Accessory : Adapter(NB)



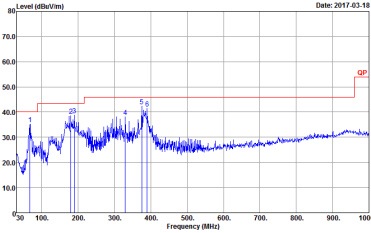
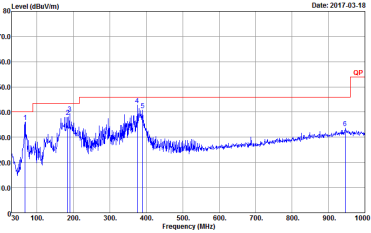
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_盒體 Model : airRouter ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch06 Setting : 13.5 Plane : 2 Accessory : Adapter(NB)	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_盒體 Model : airRouter ISP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n40)_Tx_Ch06 Setting : 13.5 Plane : 2 Accessory : Adapter(NB)



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_盒體 Model : airRouter ISP SN : 1703A0418D6A21471 Data Rate : MCS9 Mode : 11g(+40)_Tx_Ch09 Setting : 9 Plane : Z Accessory : Adapter(NB)	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_盒體 Model : airRouter ISP SN : 1703A0418D6A21471 Data Rate : MCS9 Mode : 11g(+40)_Tx_Ch09 Setting : 9 Plane : Z Accessory : Adapter(NB)



Emission below 1GHz
2.4GHz WIFI 802.11n HT20 (LF)

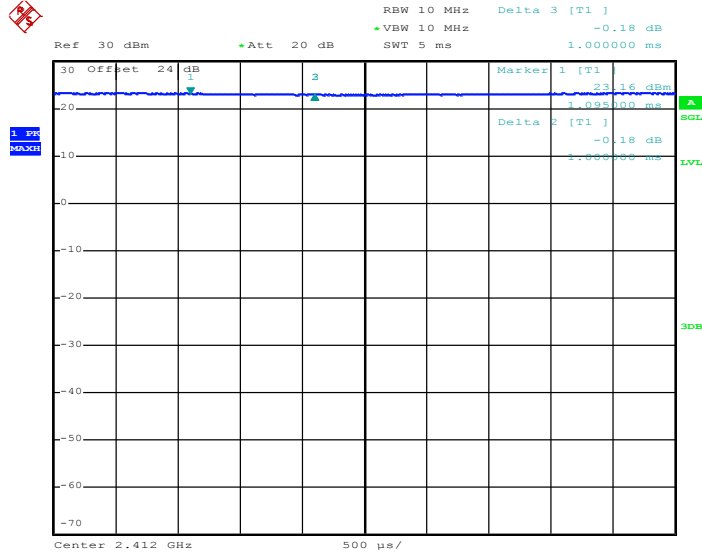
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT20 LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH12-HY Condition : QP 3m BILOG_6111D_37059 HORIZONTAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_会館 Model : airRouter-GP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_LF Setting : 12.5 Plane : 2 Accessory : Adapter(NB)	 Site : 03CH12-HY Condition : QP 3m BILOG_6111D_37059 VERTICAL Detector : Peak Pretest : #W171161 EUT : #2_2.4G ART_会館 Model : airRouter-GP SN : 1703A0418D6A21471 Data Rate : MCS0 Mode : 11g(n20)_Tx_LF Setting : 12.5 Plane : 2 Accessory : Adapter(NB)

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	802.11b for Ant. 1	100.00	-	-	10Hz
1+2	802.11b for Ant. 2	100.00	-	-	10Hz
1+2	802.11g for Ant. 1	96.45	1360.00	0.74	1kHz
1+2	802.11g for Ant. 2	96.45	1360.00	0.74	1kHz
1+2	2.4GHz 802.11n HT20 for Ant. 1	95.49	1270.00	0.79	1kHz
1+2	2.4GHz 802.11n HT20 for Ant. 2	95.49	1270.00	0.79	1kHz
1+2	2.4GHz 802.11n HT40 for Ant. 1	93.45	628.00	1.59	3kHz
1+2	2.4GHz 802.11n HT40 for Ant. 2	94.01	628	1.59	3kHz

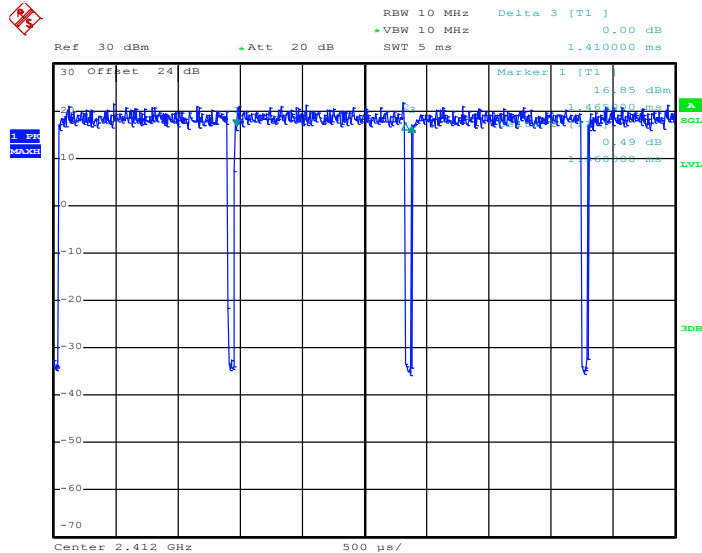
MIMO <Ant. 1+2(1)>

802.11b



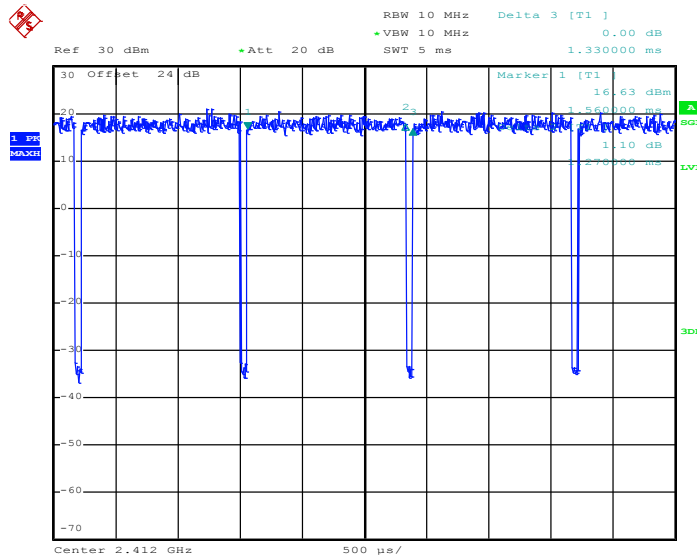
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802.11g



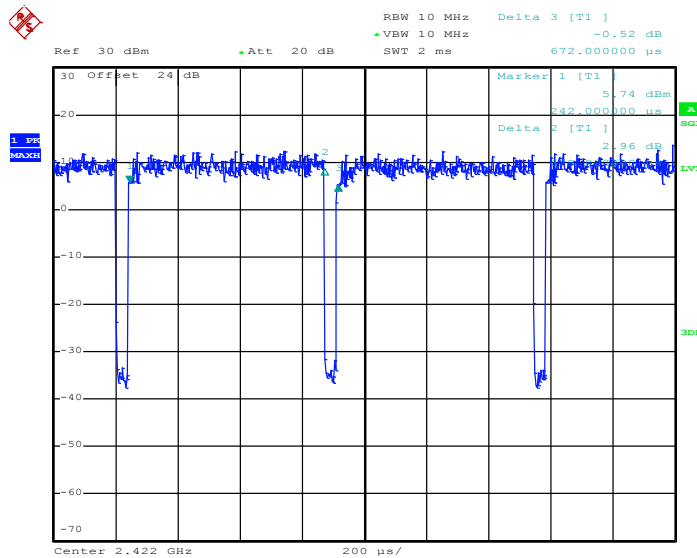
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802.11n HT20



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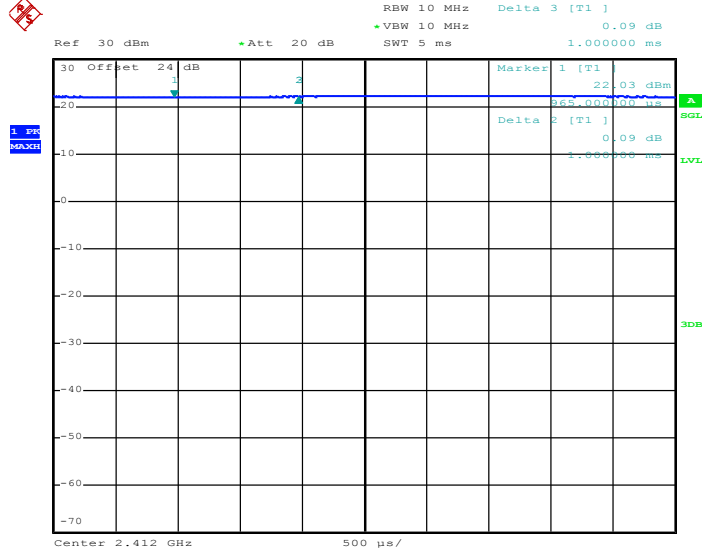
802.11n HT40



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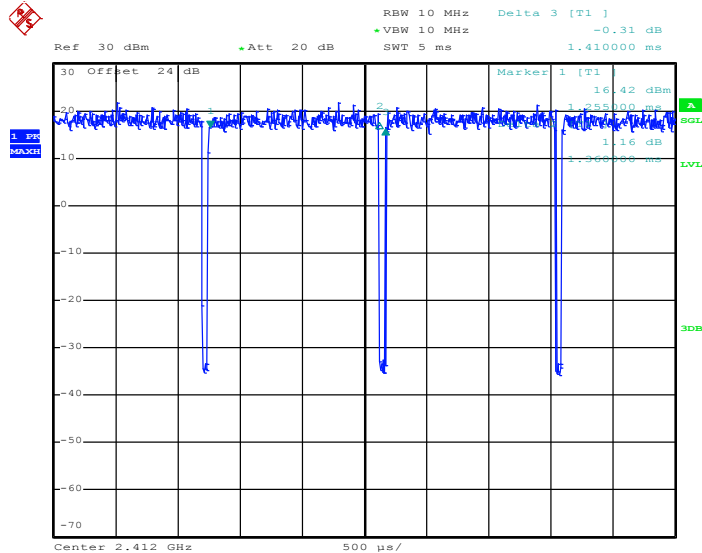
MIMO <Ant. 1+2(2)>

802.11b



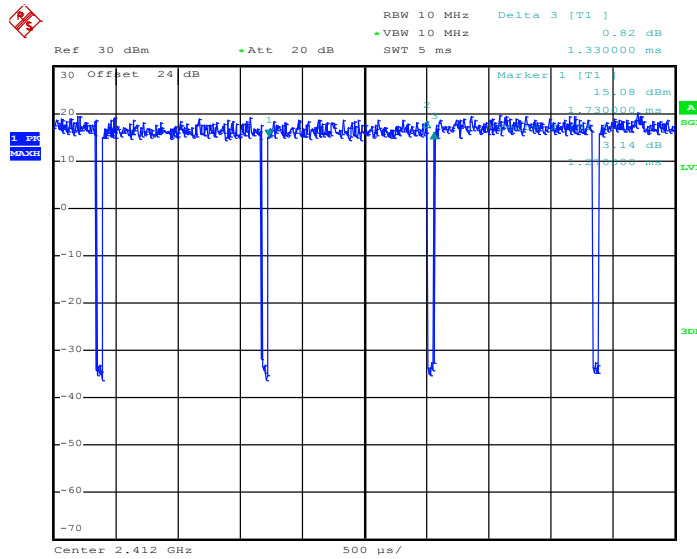
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802.11g



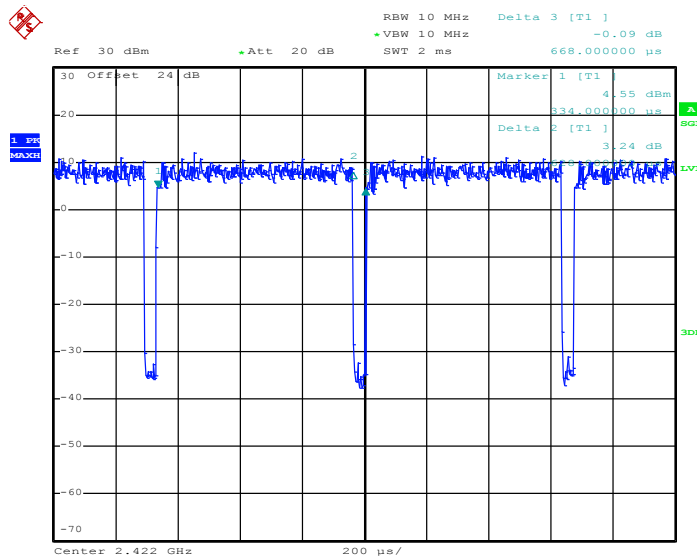
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802.11n HT20



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802.11n HT40



Date: 24.MAR.2017 04:41:00