FCC RF Test Report

APPLICANT	:	Triesan LLC
EQUIPMENT	:	Tablet PC
MODEL NAME	:	SR043KL
FCC ID	:	2AIP3-8320
STANDARD	:	FCC Part 15 Subpart C §15.247
CLASSIFICATION	:	(DTS) Digital Transmission System

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

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

Testing Laboratory
1190

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR670616-01C	Rev. 01	Initial issue of report	Nov. 25, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass
3.1	-	99% Bandwidth	-	Pass
3.2	15.247(b)	Power Output Measurement	≤ 30dBm	Pass
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass
3.4	15.247(d)	Conducted Band Edges	≤ 20dBc	Pass
		Conducted Spurious Emission		Pass
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass
3.6	15.207	AC Conducted Emission	15.207(a)	Pass
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass

1 General Description

1.1 Applicant

Triesan LLC
8201 Peters Rd., Suite 1000
Plantation, Florida 33324

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet PC
Model Name	SR043KL
FCC ID	2AIP3-8320
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 Bluetooth BR/EDR/LE

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2472 MHz
Maximum (Peak) Output Power to antenna	802.11b : 18.13 dBm (0.0650 W) 802.11g : 21.67 dBm (0.1469 W) 802.11n HT20 : 21.59 dBm (0.1442 W) 802.11n HT40 : 21.34 dBm (0.1361 W)
99% Occupied Bandwidth	802.11b : 12.45MHz 802.11g : 17.80MHz 802.11n HT20 : 18.35MHz 802.11n HT40 : 36.30MHz
Antenna Type / Gain	Monopole Antenna type with gain 0.79 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

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. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	**Sporton Site No.**	
	TH05-HY	CO05-HY

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

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH13-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 v03r05
- ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442	-	-

2.2 Test Mode

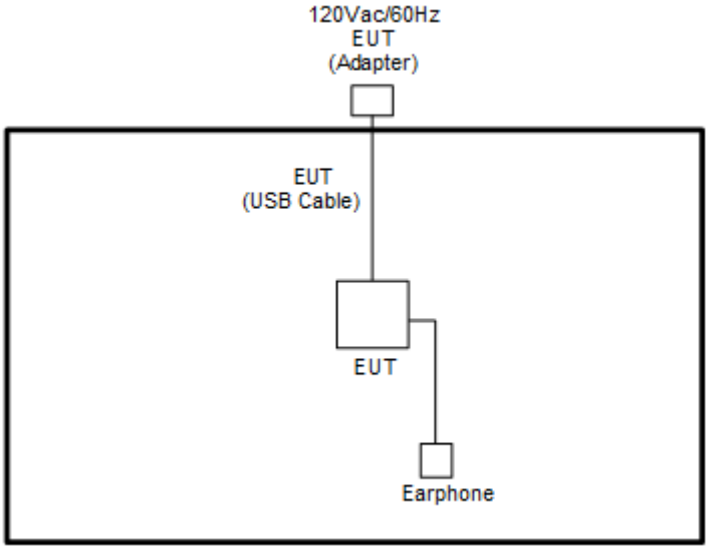
Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

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

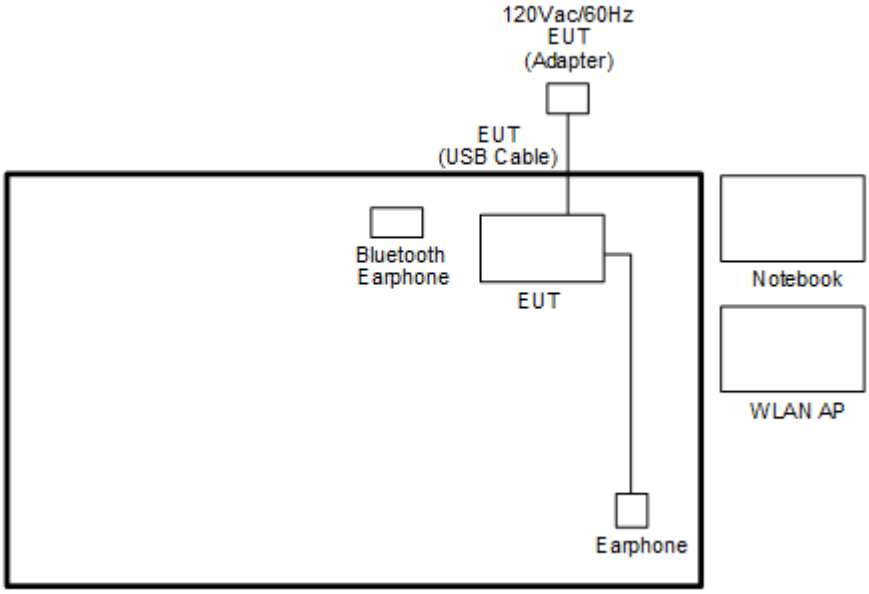
Test Cases		
AC Conducted Emission	Mode 1 :	WLAN (2.4GHz) Link + Bluetooth Link + MPEG4 + Earphone + USB Cable (Charging from Adapter) + MicroSD Card

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E5570	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
4.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
5.	Earphone	N/A	N/A	N/A	Unshielded, 1.15m	N/A

2.5 EUT Operation Test Setup

The programmed RF utility “EngineerMode”, is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testing. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 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.

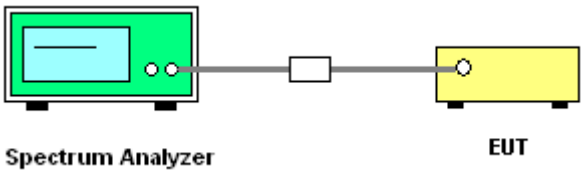
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

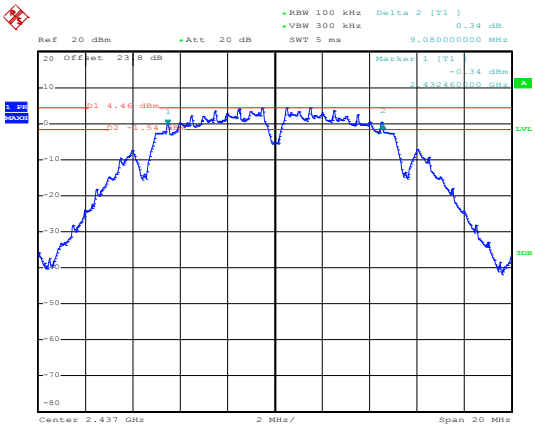
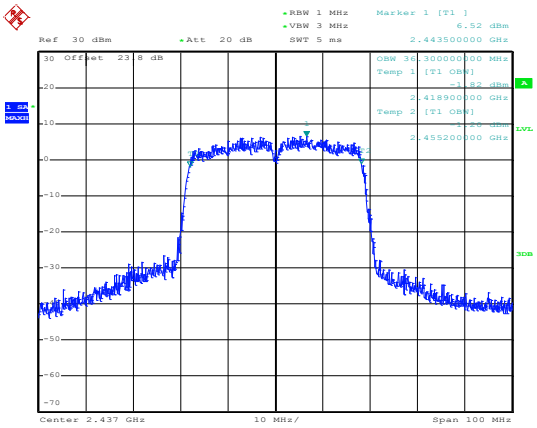
1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r05.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit 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.

Minimum 6dB Bandwidth	Maximum 99% Occupied Bandwidth
	
Date: 29.OCT.2016 11:53:04	Date: 29.OCT.2016 12:52:39

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

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi are 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.

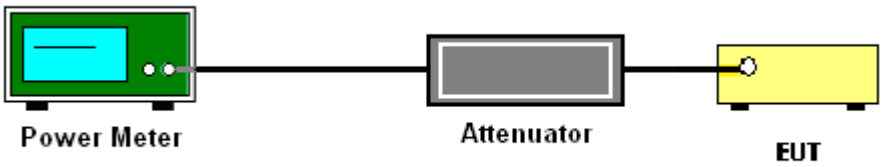
3.2.2 Measuring Instruments

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 v03r05 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.

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.

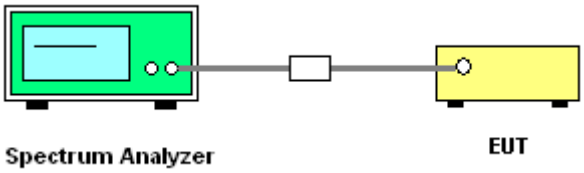
3.3.2 Measuring Instruments

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 v03r05
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.

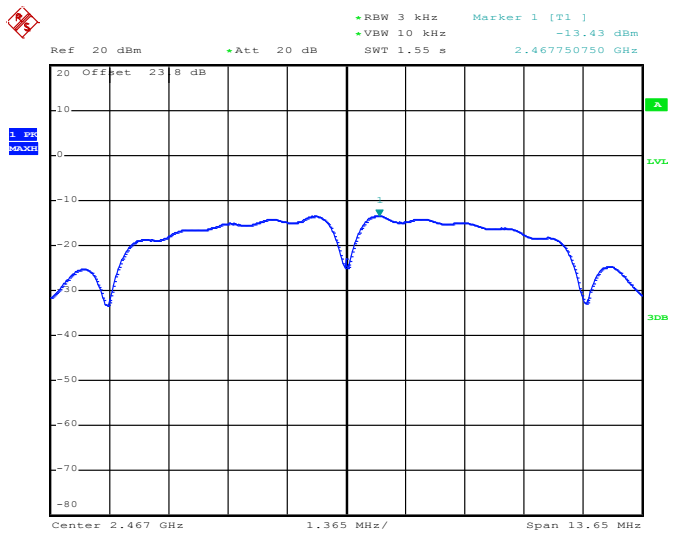
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/3kHz)



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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 and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

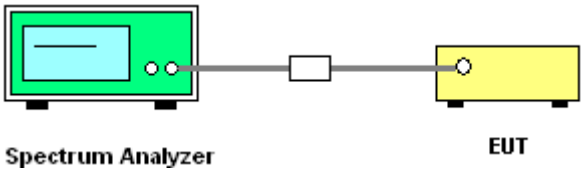
3.4.2 Measuring Instruments

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 v03r05.
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

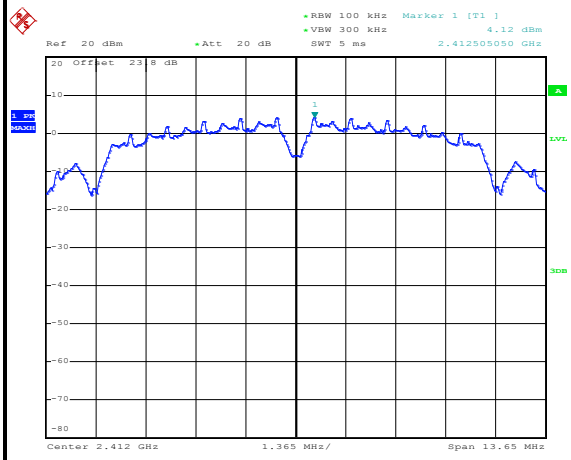


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Mode :	802.11b	**Temperature :**	21~25℃
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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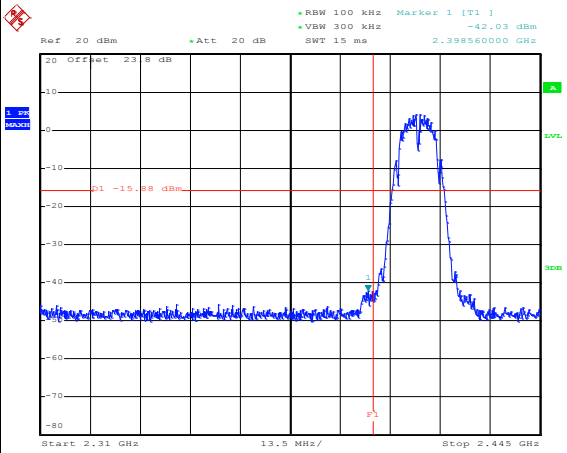
Low Channel Plot



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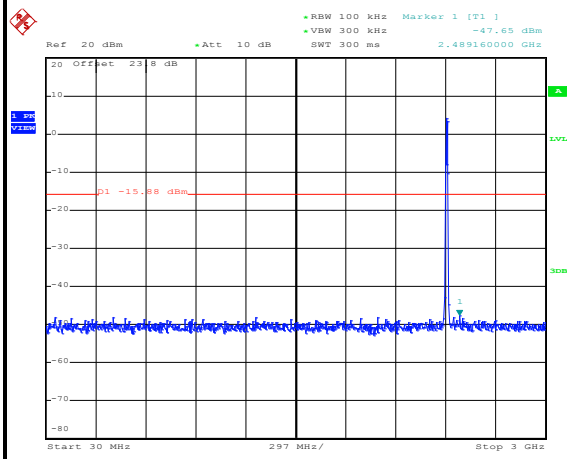
Spurious Emission 30MHz~3GHz



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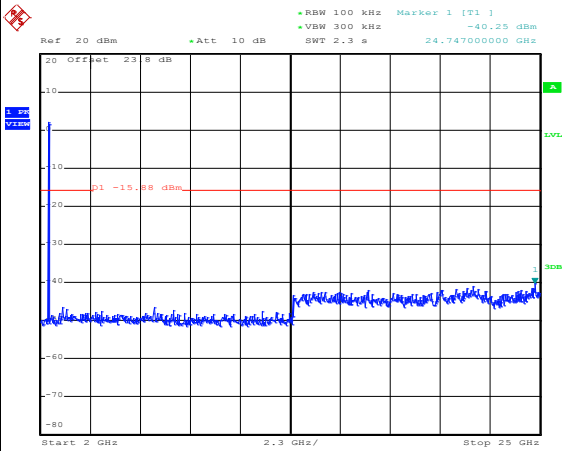
Spurious Emission 2GHz~25GHz

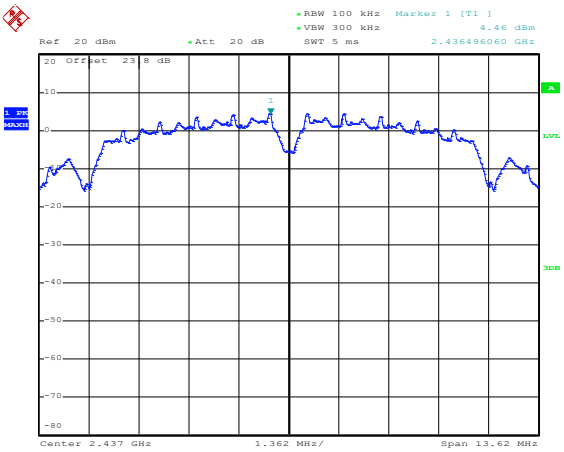


Date: 29.OCT.2016 11:49:42

Test Mode :	802.11b	**Temperature :**	21~25℃
Test Band :	2.4GHz Mid	**Relative Humidity :**	51~54%
Test Channel :	06	**Test Engineer :**	Derek Hsu

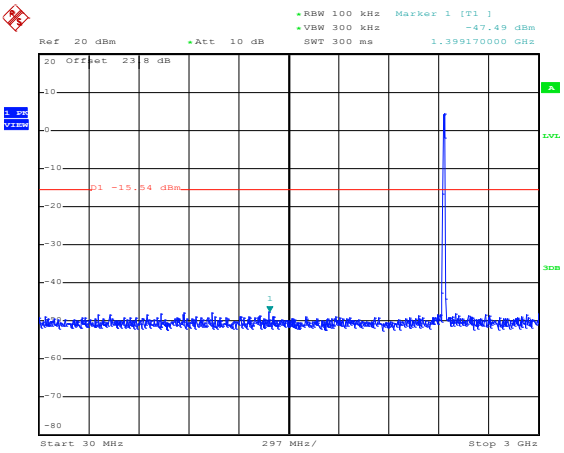
WLAN 802.11b Channel 06

100kHz PSD reference Level



Date: 29.OCT.2016 11:53:37

Spurious Emission 30MHz~3GHz



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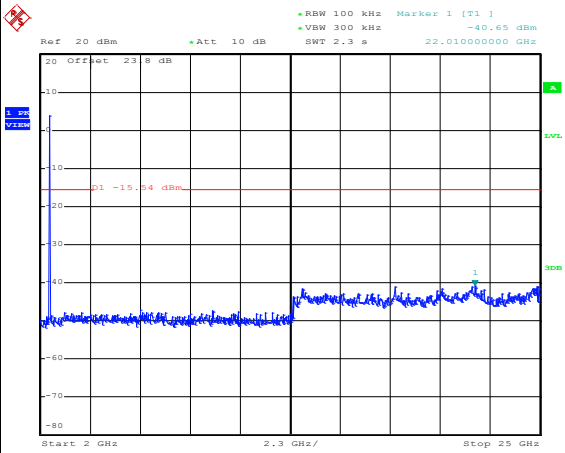
Spurious Emission 2GHz~25GHz

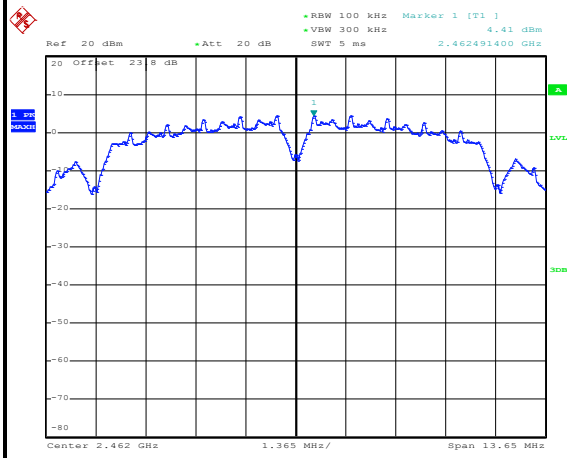


Date: 29.OCT.2016 11:53:56

Test Mode :	802.11b	**Temperature :**	21~25℃
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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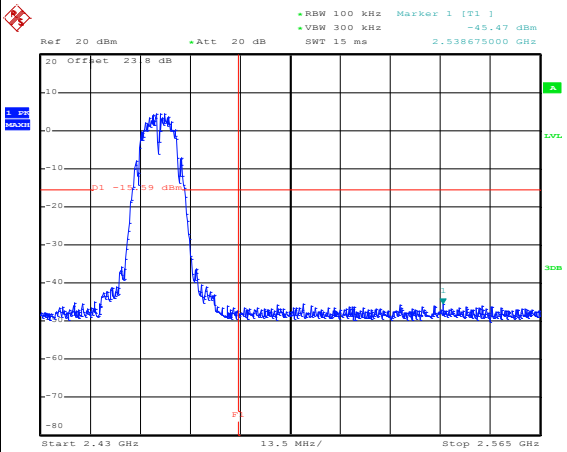
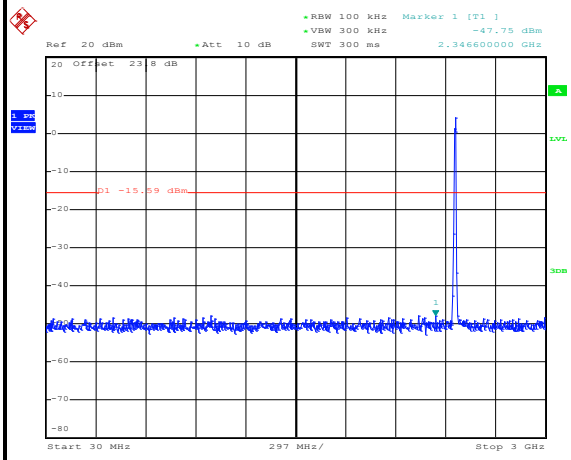
High Channel Plot



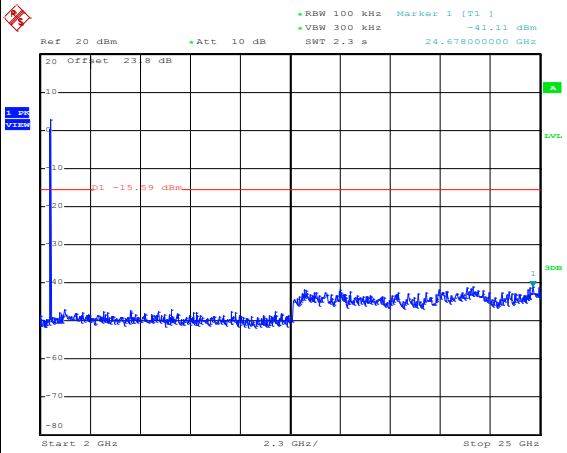
Date: 29.OCT.2016 11:56:00

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 11:56:17

Spurious Emission 2GHz~25GHz

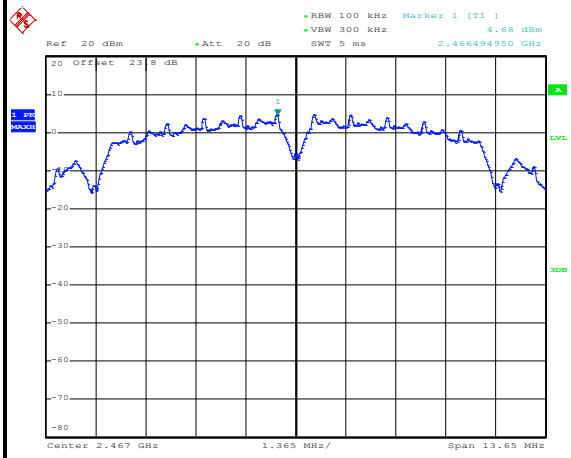


Date: 29.OCT.2016 11:56:25

Test Mode :	802.11b	**Temperature :**	21~25℃
Test Band :	2.4GHz High	**Relative Humidity :**	51~54%
Test Channel :	12	**Test Engineer :**	Derek Hsu

WLAN 802.11b Channel 12

100kHz PSD reference Level



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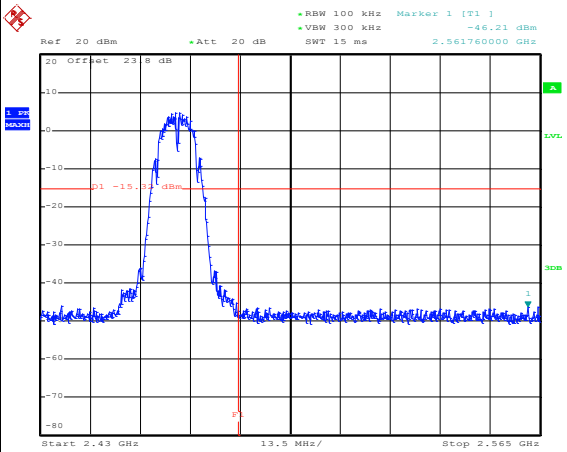
High Channel Plot



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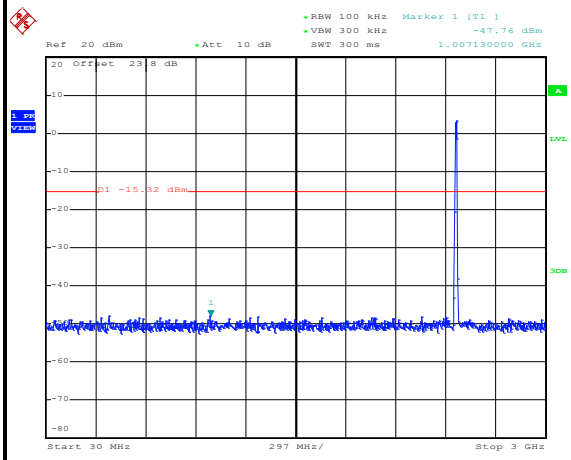
Spurious Emission 30MHz~3GHz



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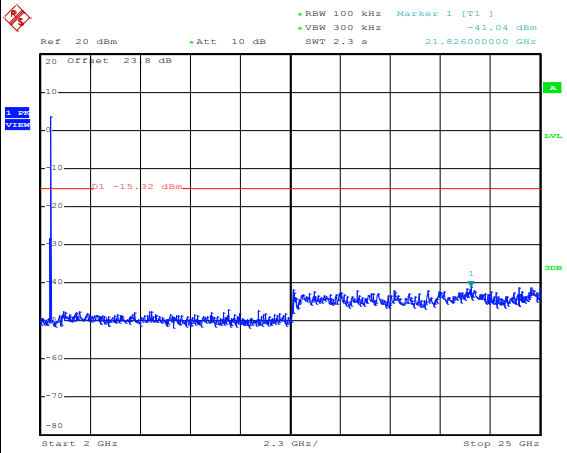
Spurious Emission 2GHz~25GHz

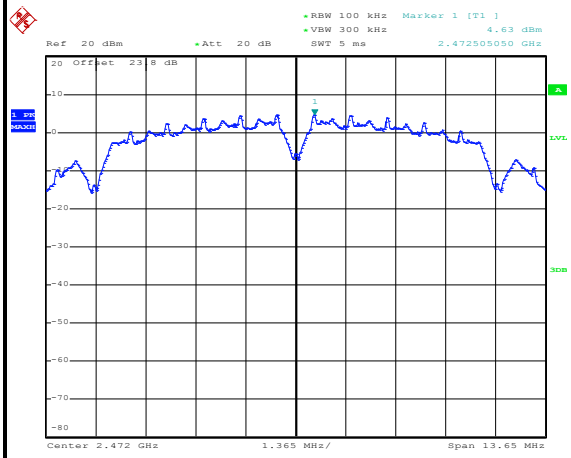


Date: 29.OCT.2016 12:01:09

Test Mode :	802.11b	**Temperature :**	21~25℃
Test Band :	2.4GHz High	**Relative Humidity :**	51~54%
Test Channel :	13	**Test Engineer :**	Derek Hsu

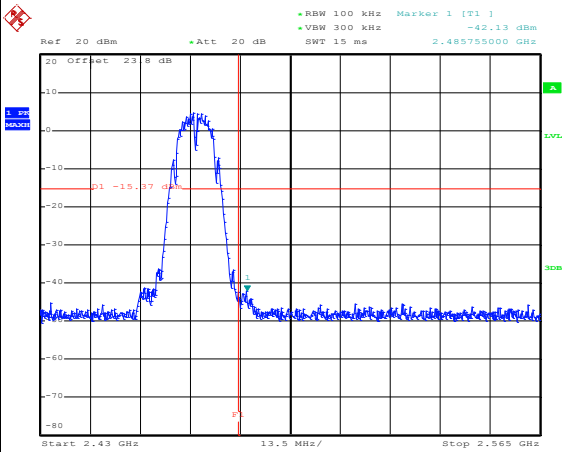
WLAN 802.11b Channel 13

100kHz PSD reference Level



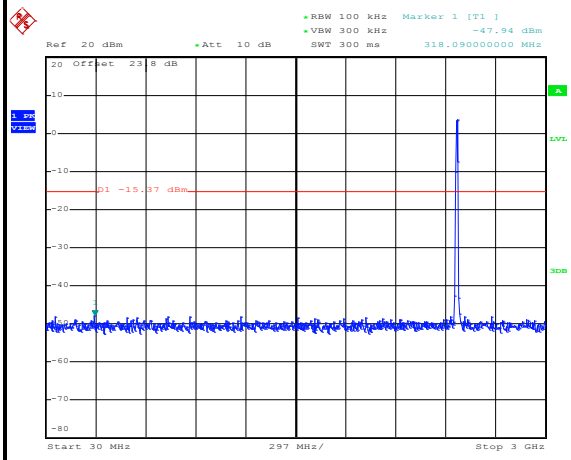
Date: 29.OCT.2016 12:03:40

High Channel Plot



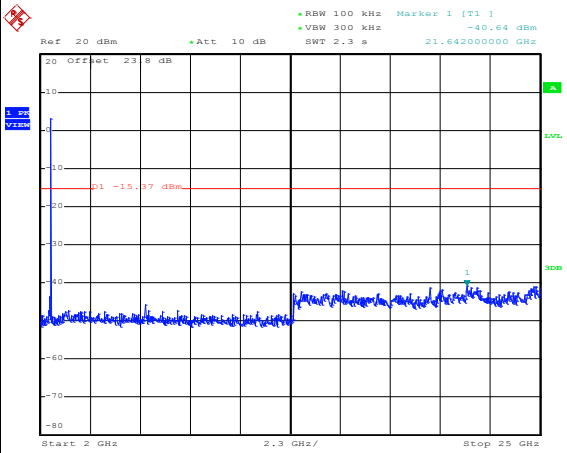
Date: 29.OCT.2016 12:03:55

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 12:04:07

Spurious Emission 2GHz~25GHz

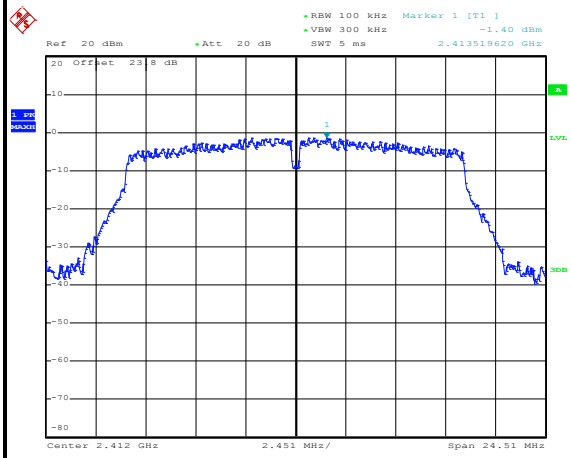


Date: 29.OCT.2016 12:04:15

Test Mode :	802.11g	**Temperature :**	21~25℃
Test Band :	2.4GHz Low	**Relative Humidity :**	51~54%
Test Channel :	01	**Test Engineer :**	Derek Hsu

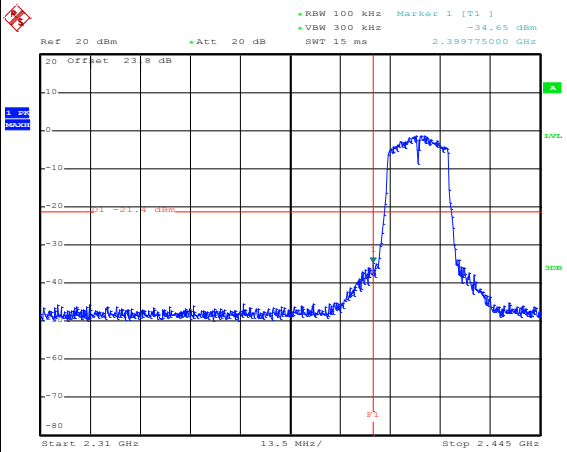
WLAN 802.11g Channel 01

100kHz PSD reference Level



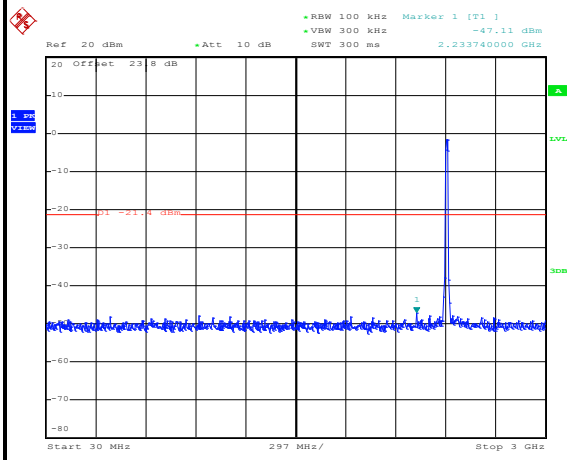
Date: 29.OCT.2016 12:07:23

Low Channel Plot



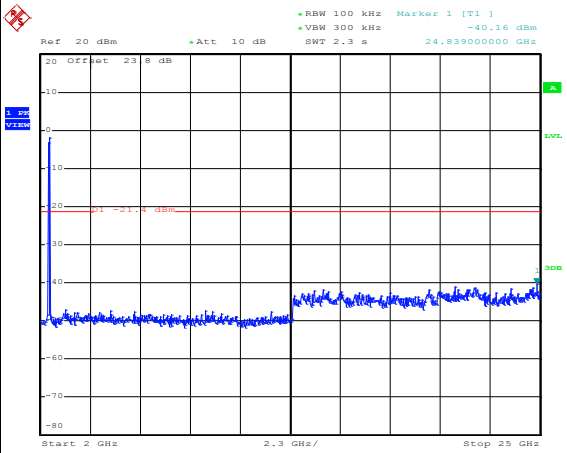
Date: 29.OCT.2016 12:08:16

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 13:15:12

Spurious Emission 2GHz~25GHz

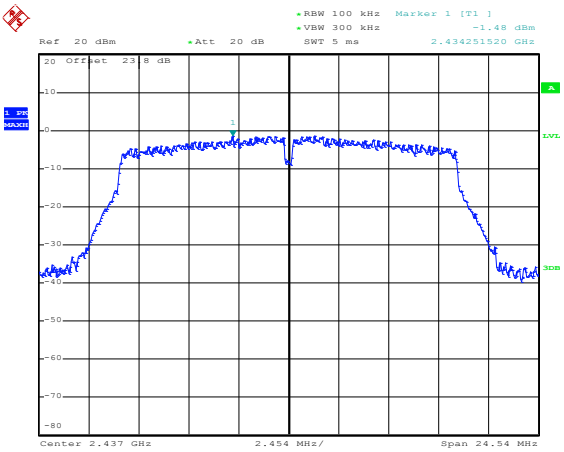


Date: 29.OCT.2016 13:15:21

Test Mode :	802.11g	**Temperature :**	21~25℃
Test Band :	2.4GHz Mid	**Relative Humidity :**	51~54%
Test Channel :	06	**Test Engineer :**	Derek Hsu

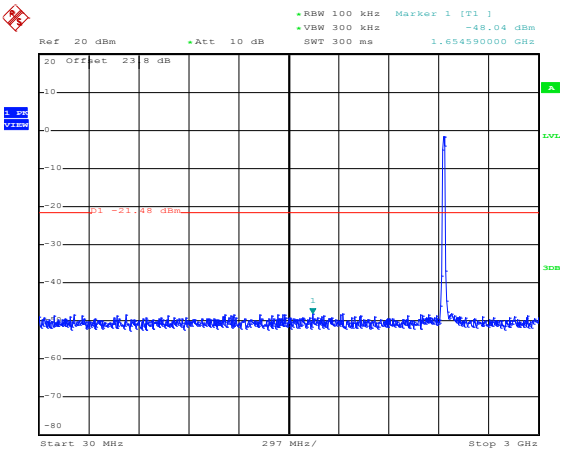
WLAN 802.11g Channel 06

100kHz PSD reference Level



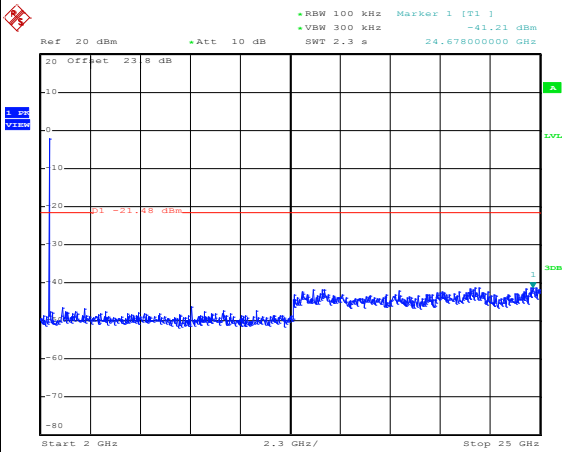
Date: 29.OCT.2016 12:11:38

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 12:11:50

Spurious Emission 2GHz~25GHz

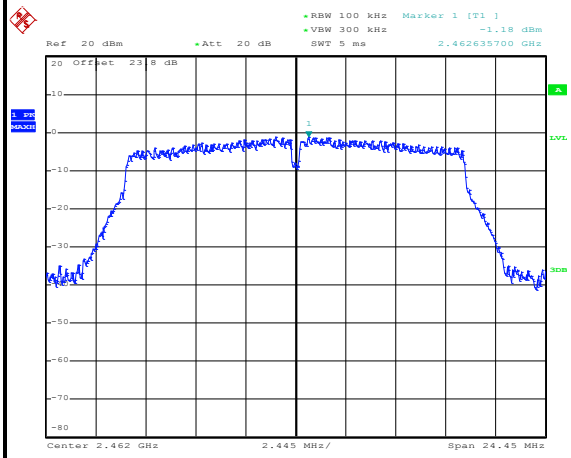


Date: 29.OCT.2016 12:11:58

Test Mode :	802.11g	**Temperature :**	21~25℃
Test Band :	2.4GHz High	**Relative Humidity :**	51~54%
Test Channel :	11	**Test Engineer :**	Derek Hsu

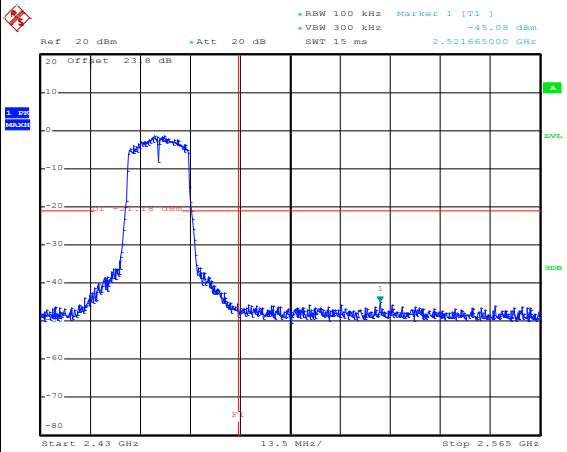
WLAN 802.11g Channel 11

100kHz PSD reference Level



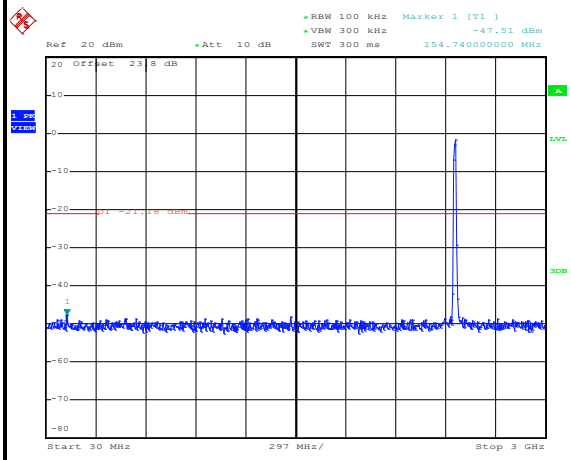
Date: 29.OCT.2016 12:15:29

High Channel Plot



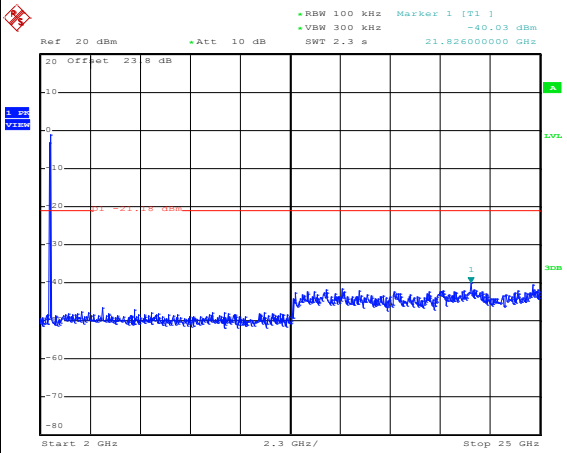
Date: 29.OCT.2016 12:15:47

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 12:15:59

Spurious Emission 2GHz~25GHz

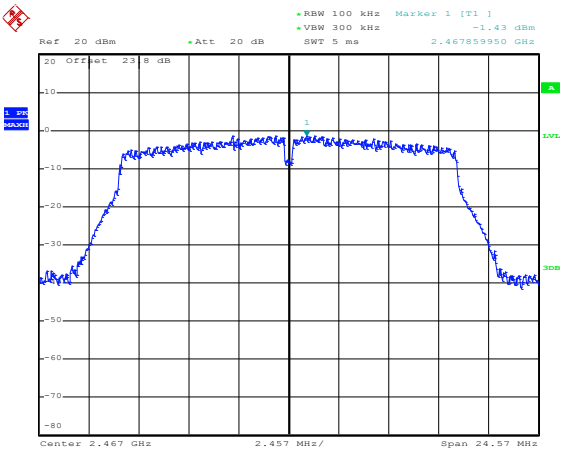


Date: 29.OCT.2016 12:16:07

Test Mode :	802.11g	**Temperature :**	21~25℃
Test Band :	2.4GHz High	**Relative Humidity :**	51~54%
Test Channel :	12	**Test Engineer :**	Derek Hsu

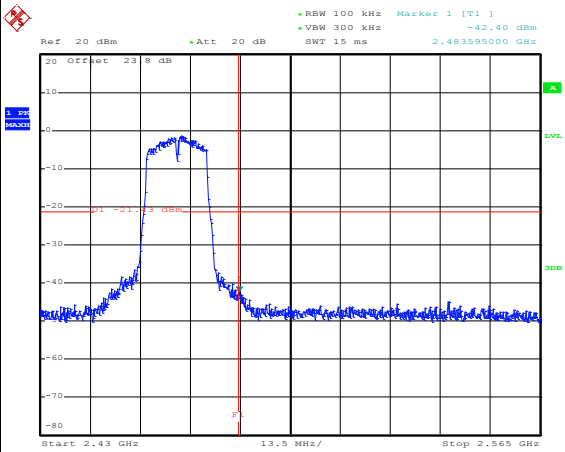
WLAN 802.11g Channel 12

100kHz PSD reference Level



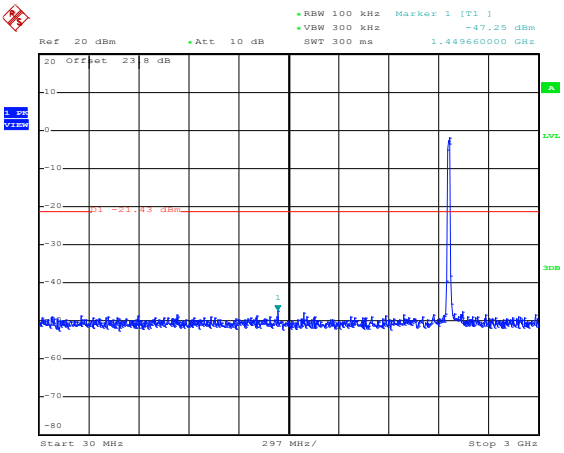
Date: 29.OCT.2016 12:18:06

High Channel Plot



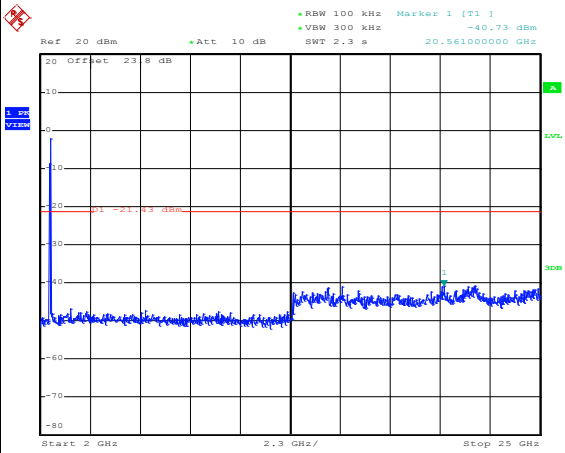
Date: 29.OCT.2016 12:18:32

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 12:18:48

Spurious Emission 2GHz~25GHz

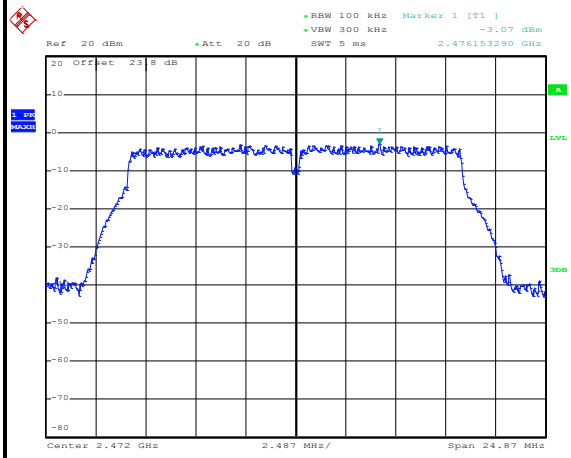


Date: 29.OCT.2016 12:18:57

Test Mode :	802.11g	**Temperature :**	21~25℃
Test Band :	2.4GHz High	**Relative Humidity :**	51~54%
Test Channel :	13	**Test Engineer :**	Derek Hsu

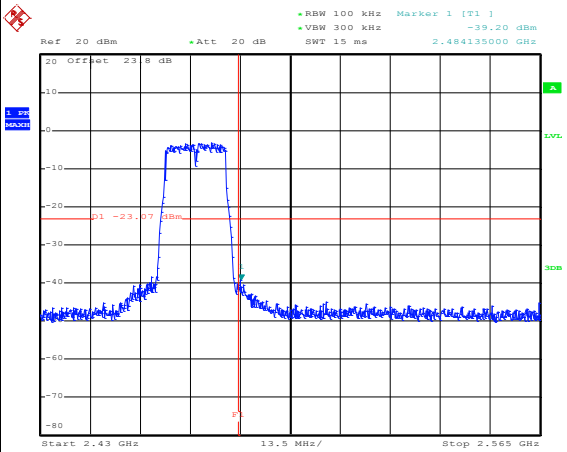
WLAN 802.11g Channel 13

100kHz PSD reference Level



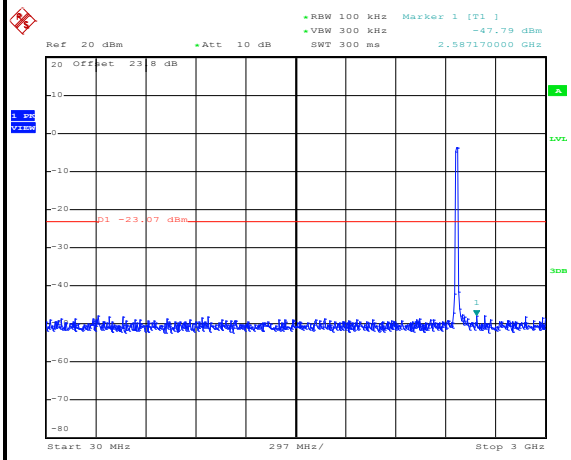
Date: 29.OCT.2016 12:21:27

High Channel Plot



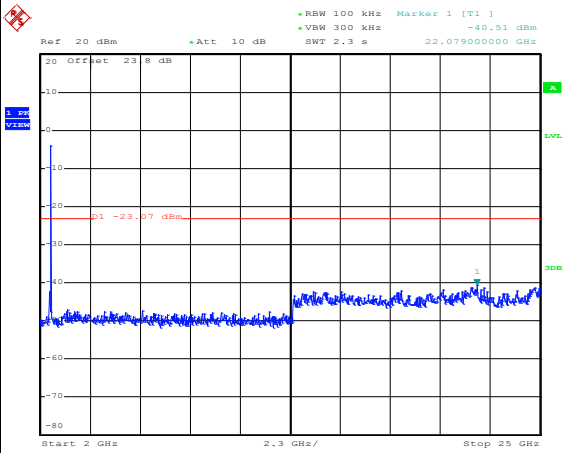
Date: 29.OCT.2016 12:21:48

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 12:22:02

Spurious Emission 2GHz~25GHz

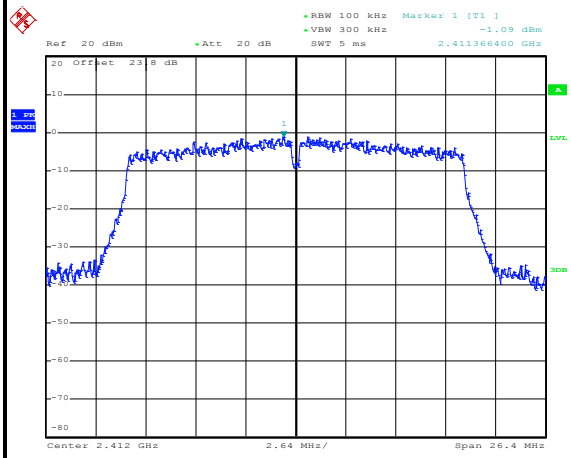


Date: 29.OCT.2016 12:22:10

Test Mode :	802.11n HT20	**Temperature :**	21~25℃
Test Band :	2.4GHz Low	**Relative Humidity :**	51~54%
Test Channel :	01	**Test Engineer :**	Derek Hsu

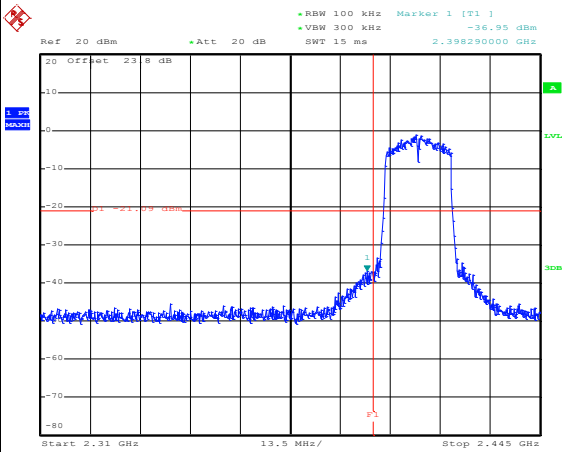
WLAN 802.11n HT20 Channel 01

100kHz PSD reference Level



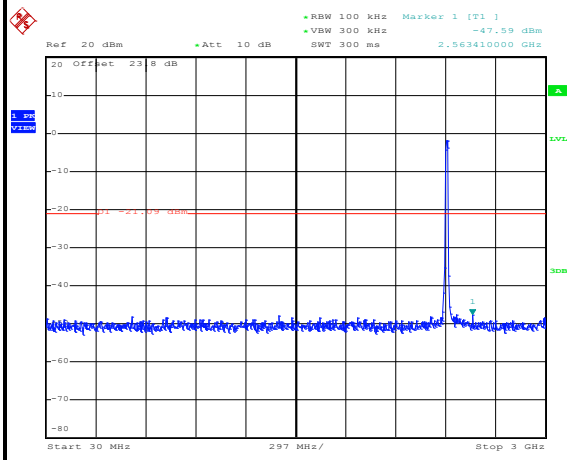
Date: 29.OCT.2016 12:25:28

Low Channel Plot



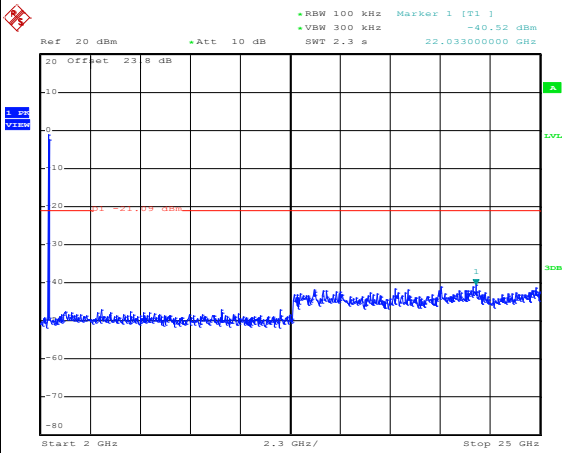
Date: 29.OCT.2016 12:25:36

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 12:25:50

Spurious Emission 2GHz~25GHz

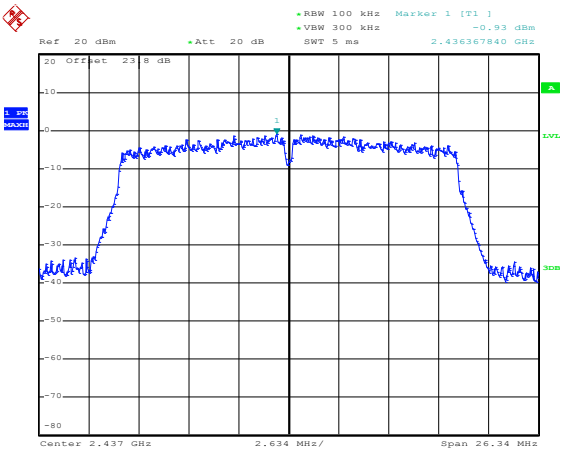


Date: 29.OCT.2016 12:25:58

Test Mode :	802.11n HT20	**Temperature :**	21~25℃
Test Band :	2.4GHz Mid	**Relative Humidity :**	51~54%
Test Channel :	06	**Test Engineer :**	Derek Hsu

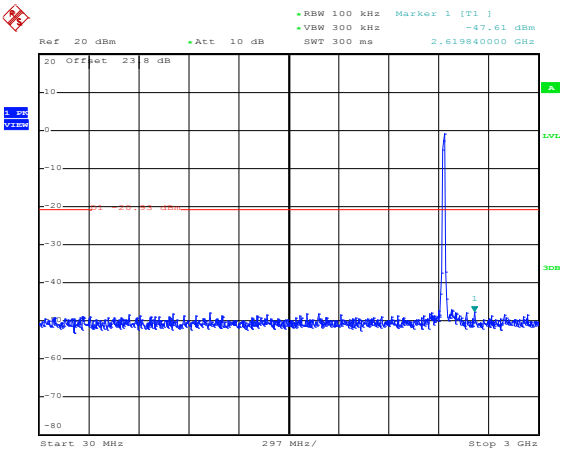
WLAN 802.11n HT20 Channel 06

100kHz PSD reference Level



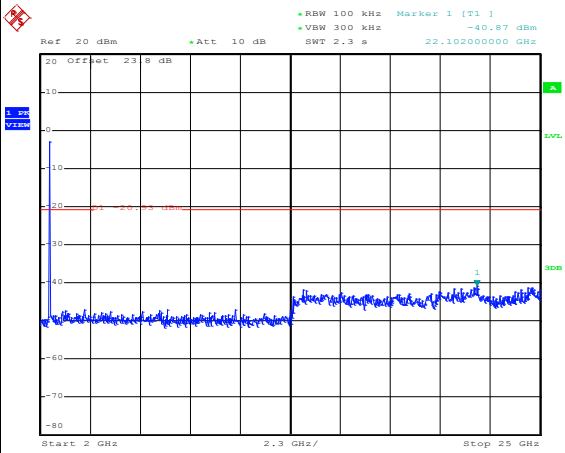
Date: 29.OCT.2016 12:28:55

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 12:29:21

Spurious Emission 2GHz~25GHz

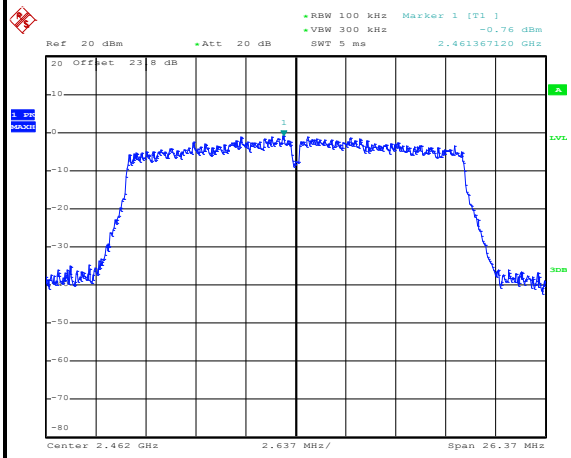


Date: 29.OCT.2016 12:29:30

Test Mode :	802.11n HT20	**Temperature :**	21~25℃
Test Band :	2.4GHz High	**Relative Humidity :**	51~54%
Test Channel :	11	**Test Engineer :**	Derek Hsu

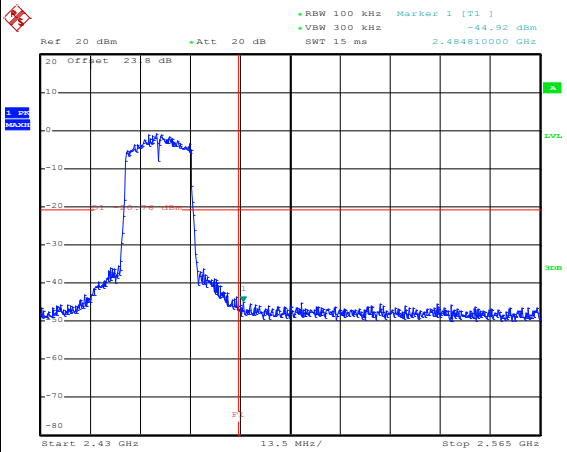
WLAN 802.11n HT20 Channel 11

100kHz PSD reference Level



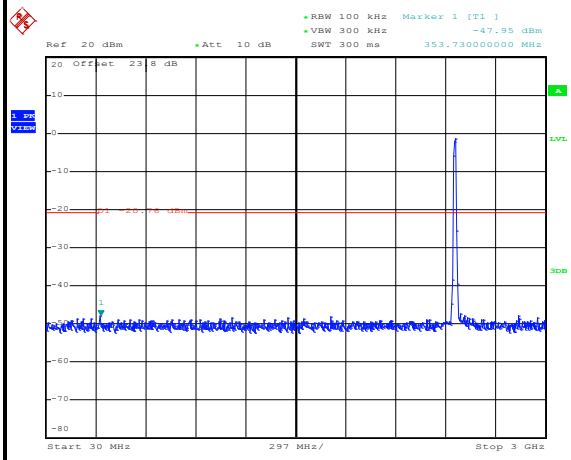
Date: 29.OCT.2016 12:32:05

High Channel Plot



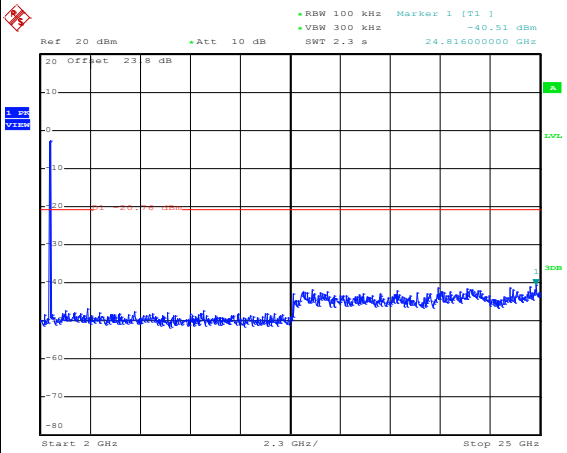
Date: 29.OCT.2016 12:32:16

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 12:32:27

Spurious Emission 2GHz~25GHz

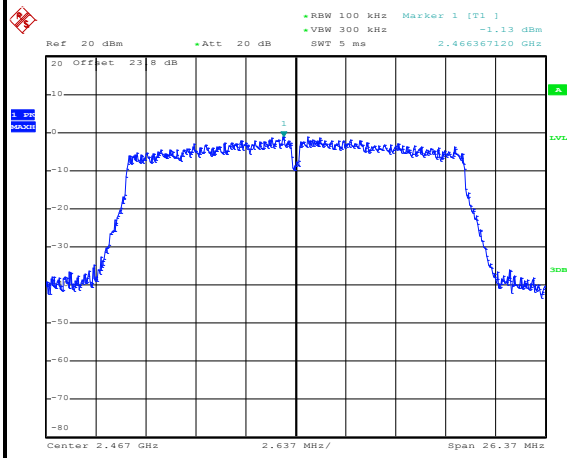


Date: 29.OCT.2016 12:32:35

Test Mode :	802.11n HT20	**Temperature :**	21~25℃
Test Band :	2.4GHz High	**Relative Humidity :**	51~54%
Test Channel :	12	**Test Engineer :**	Derek Hsu

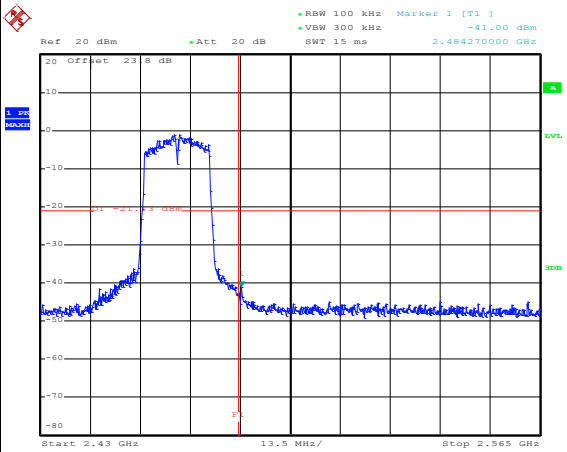
WLAN 802.11n HT20 Channel 12

100kHz PSD reference Level



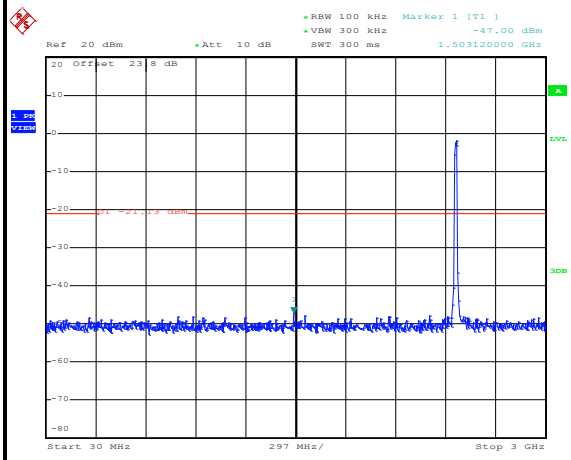
Date: 29.OCT.2016 12:35:15

High Channel Plot



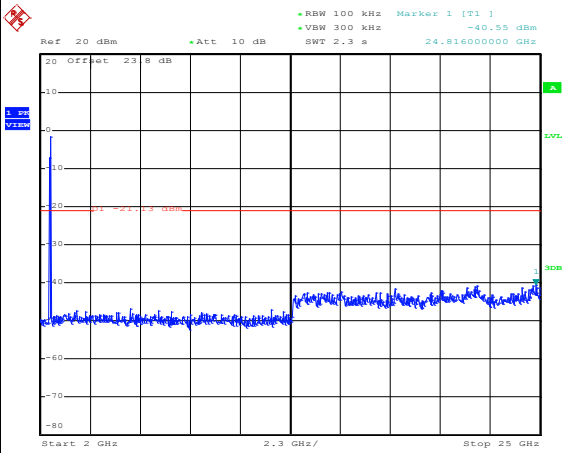
Date: 29.OCT.2016 12:35:38

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 12:36:17

Spurious Emission 2GHz~25GHz

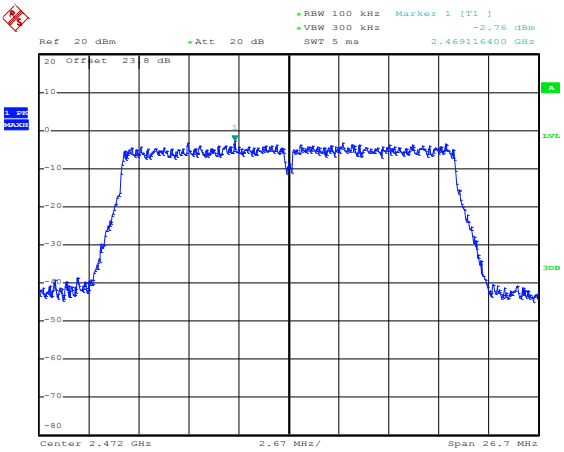


Date: 29.OCT.2016 12:36:25

Test Mode :	802.11n HT20	**Temperature :**	21~25℃
Test Band :	2.4GHz High	**Relative Humidity :**	51~54%
Test Channel :	13	**Test Engineer :**	Derek Hsu

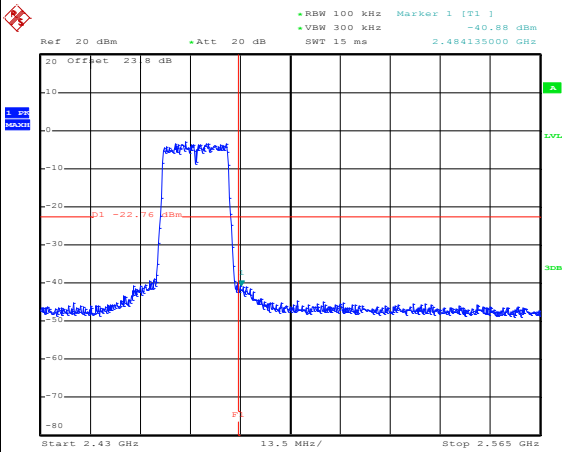
WLAN 802.11n HT20 Channel 13

100kHz PSD reference Level



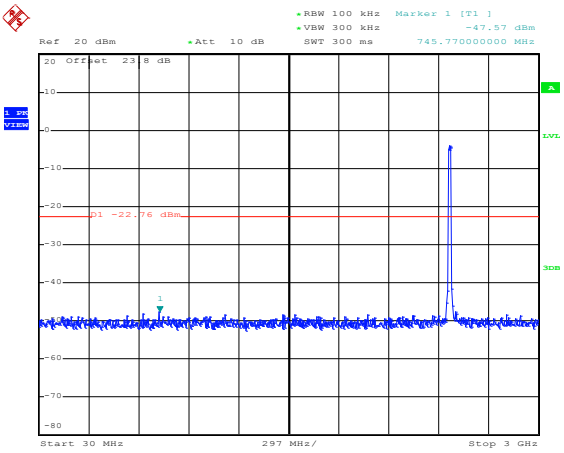
Date: 29.OCT.2016 12:42:31

High Channel Plot



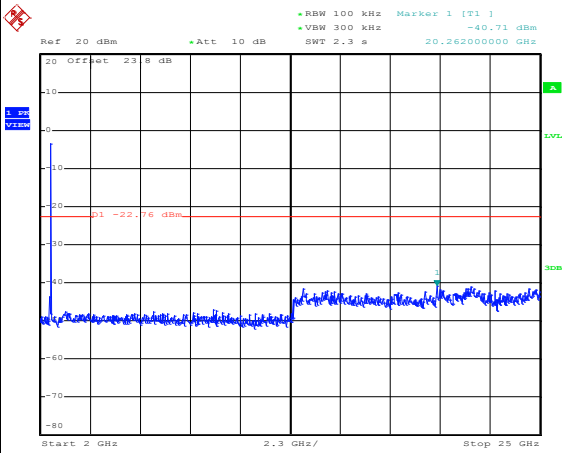
Date: 29.OCT.2016 12:43:15

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 12:43:37

Spurious Emission 2GHz~25GHz

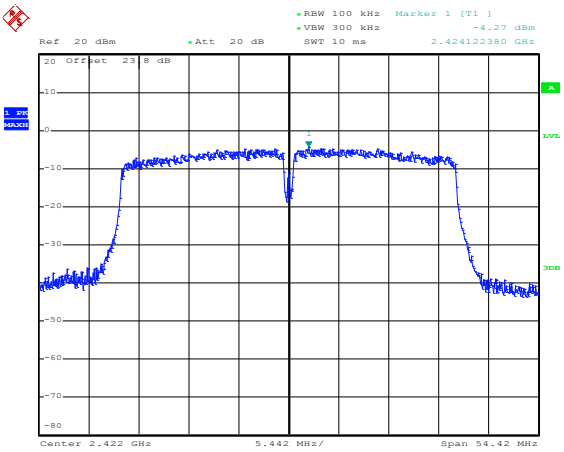


Date: 29.OCT.2016 12:43:46

Test Mode :	802.11n HT40	**Temperature :**	21~25℃
Test Band :	2.4GHz Low	**Relative Humidity :**	51~54%
Test Channel :	03	**Test Engineer :**	Derek Hsu

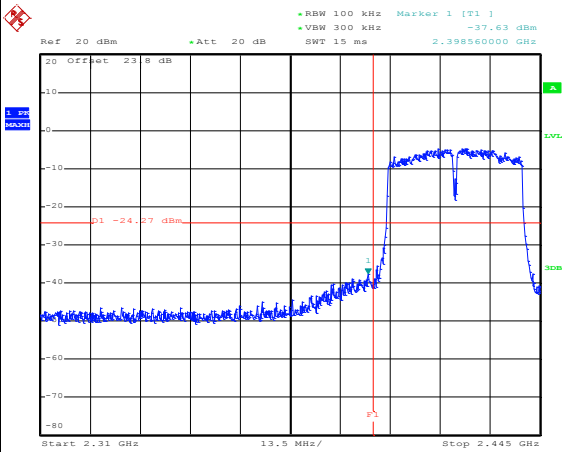
WLAN 802.11n HT40 Channel 03

100kHz PSD reference Level



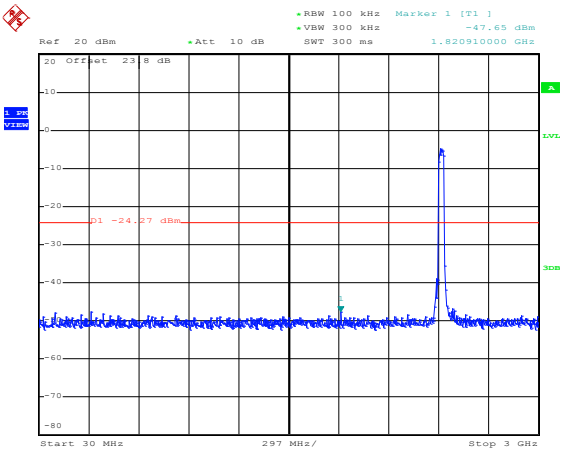
Date: 29.OCT.2016 12:48:31

Low Channel Plot



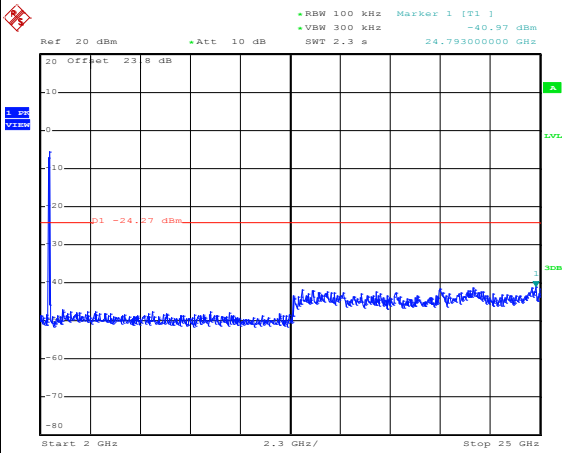
Date: 29.OCT.2016 12:48:42

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 12:48:54

Spurious Emission 2GHz~25GHz

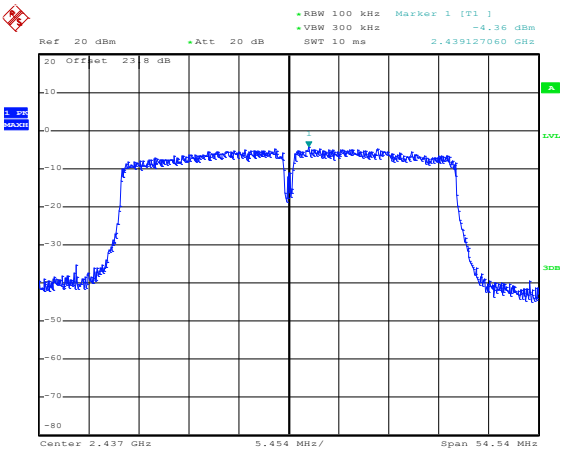


Date: 29.OCT.2016 12:49:02

Test Mode :	802.11n HT40	**Temperature :**	21~25℃
Test Band :	2.4GHz Mid	**Relative Humidity :**	51~54%
Test Channel :	06	**Test Engineer :**	Derek Hsu

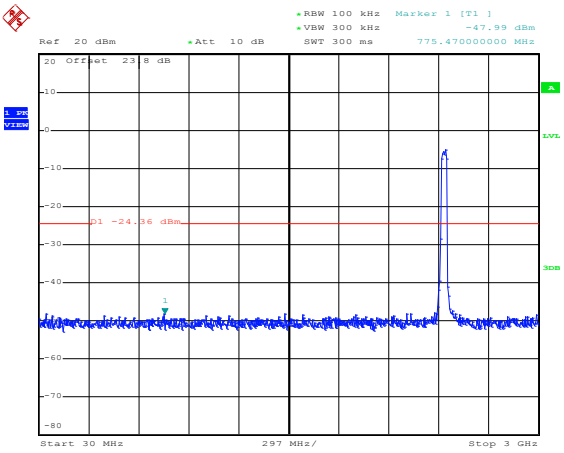
WLAN 802.11n HT40 Channel 06

100kHz PSD reference Level



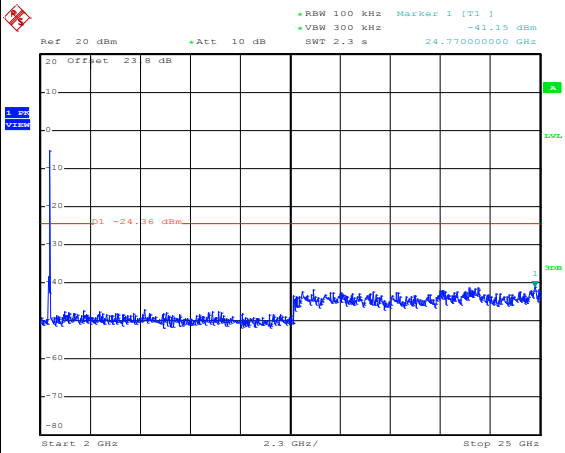
Date: 29.OCT.2016 12:52:08

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 12:52:22

Spurious Emission 2GHz~25GHz

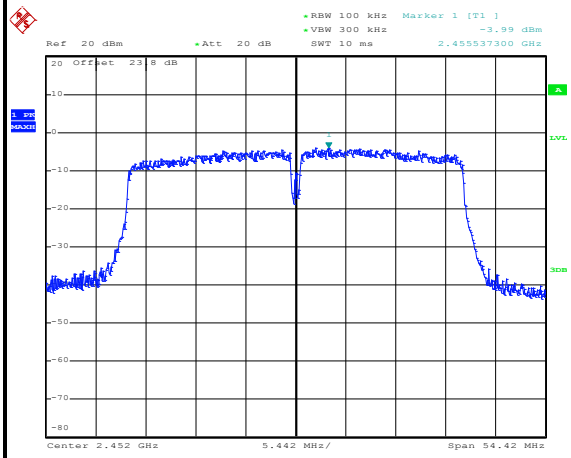


Date: 29.OCT.2016 12:52:31

Test Mode :	802.11n HT40	**Temperature :**	21~25℃
Test Band :	2.4GHz High	**Relative Humidity :**	51~54%
Test Channel :	09	**Test Engineer :**	Derek Hsu

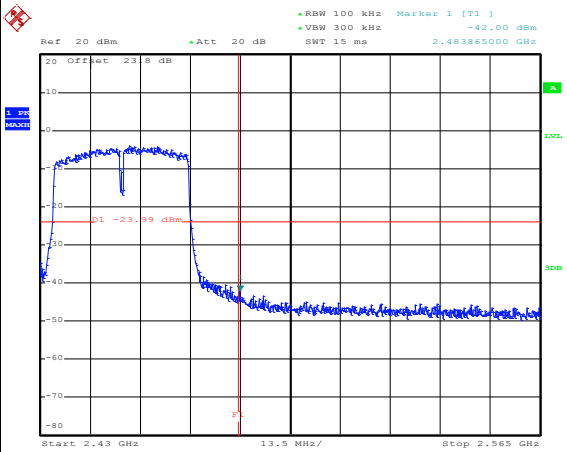
WLAN 802.11n HT40 Channel 09

100kHz PSD reference Level



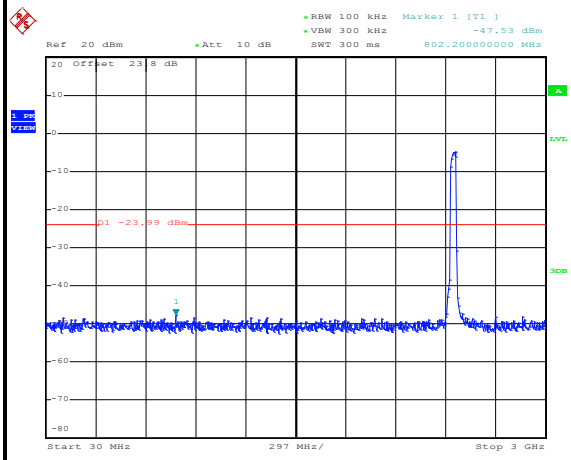
Date: 29.OCT.2016 12:56:27

High Channel Plot



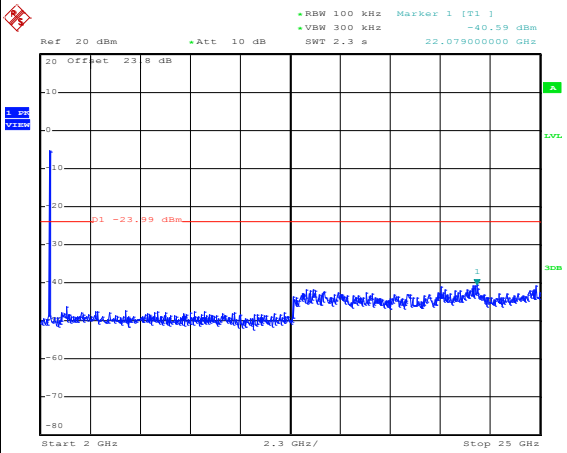
Date: 29.OCT.2016 12:56:44

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 12:56:55

Spurious Emission 2GHz~25GHz

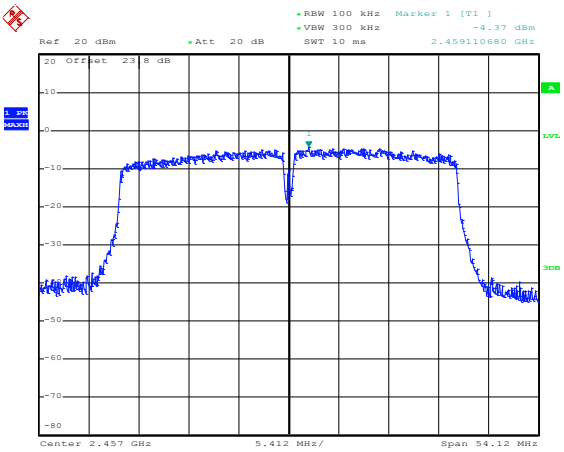


Date: 29.OCT.2016 12:57:04

Test Mode :	802.11n HT40	**Temperature :**	21~25℃
Test Band :	2.4GHz High	**Relative Humidity :**	51~54%
Test Channel :	10	**Test Engineer :**	Derek Hsu

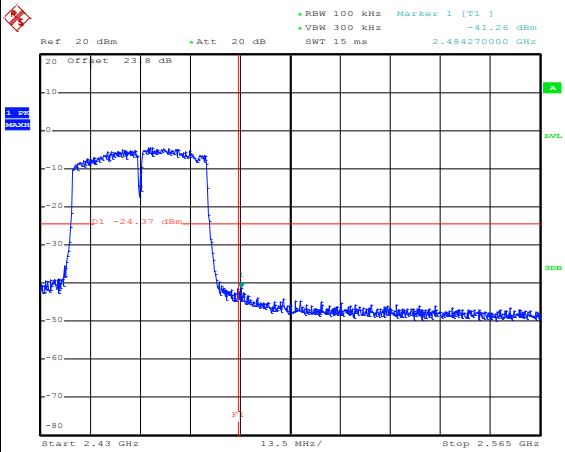
WLAN 802.11n HT40 Channel 10

100kHz PSD reference Level



Date: 29.OCT.2016 13:00:01

High Channel Plot



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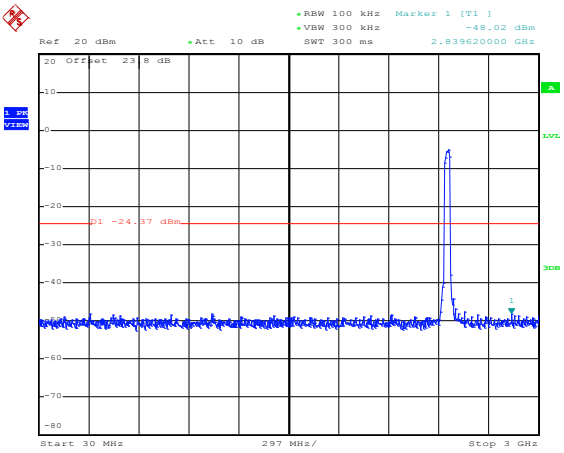
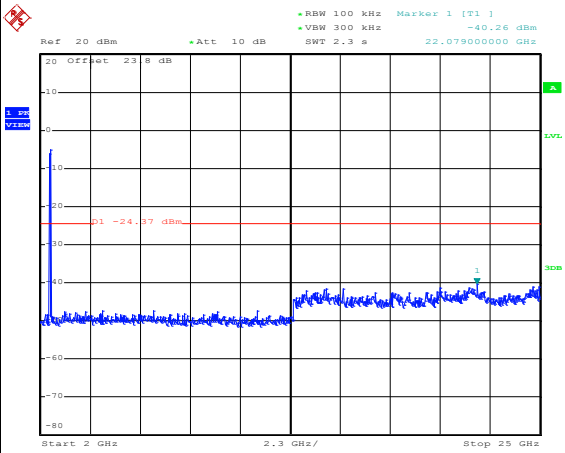
Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 13:00:36

Spurious Emission 2GHz~25GHz

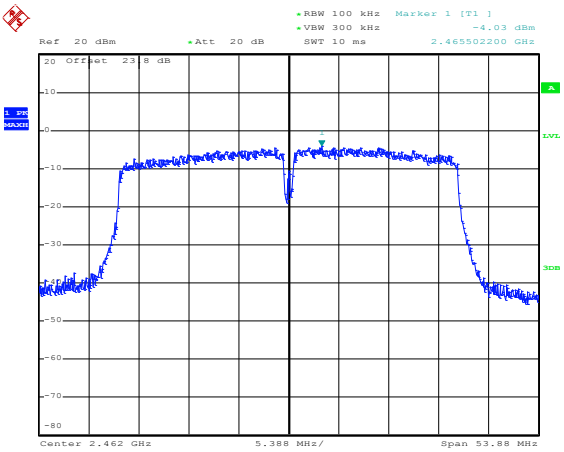


Date: 29.OCT.2016 13:00:44

Test Mode :	802.11n HT40	**Temperature :**	21~25℃
Test Band :	2.4GHz High	**Relative Humidity :**	51~54%
Test Channel :	11	**Test Engineer :**	Derek Hsu

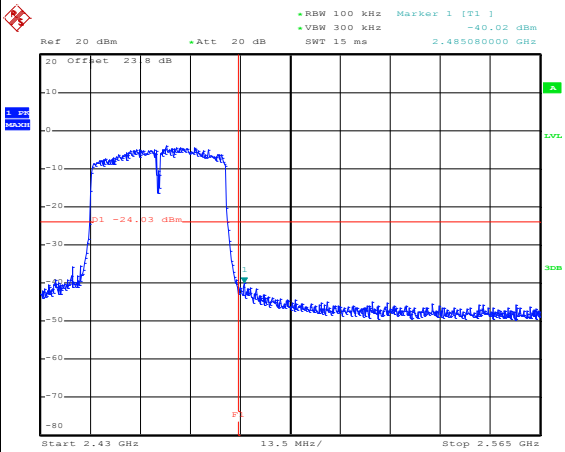
WLAN 802.11n HT40 Channel 11

100kHz PSD reference Level



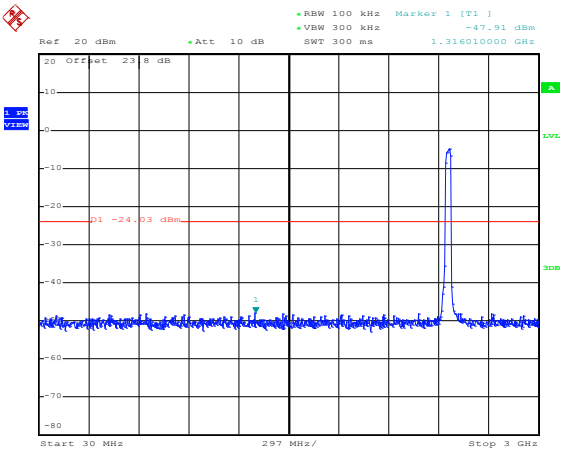
Date: 29.OCT.2016 13:06:56

High Channel Plot



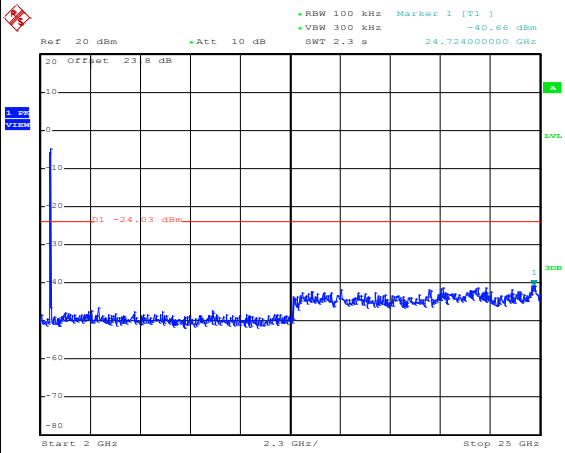
Date: 29.OCT.2016 13:07:09

Spurious Emission 30MHz~3GHz



Date: 29.OCT.2016 13:07:22

Spurious Emission 2GHz~25GHz



Date: 29.OCT.2016 13:07:30

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 FCC section 15.209 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

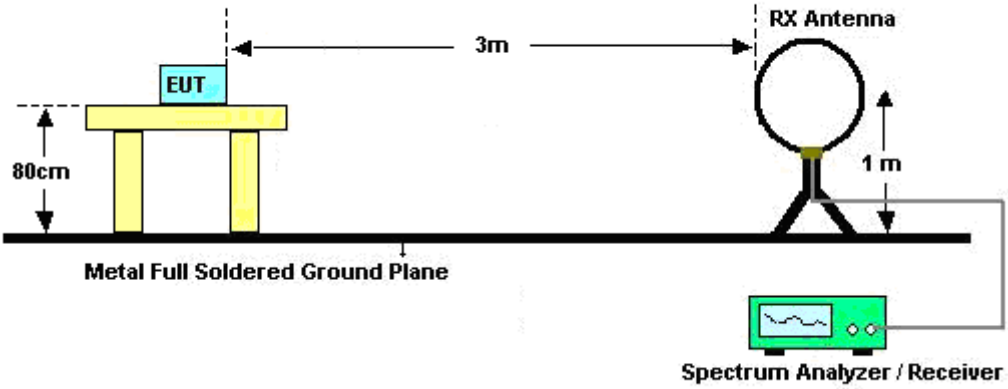
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

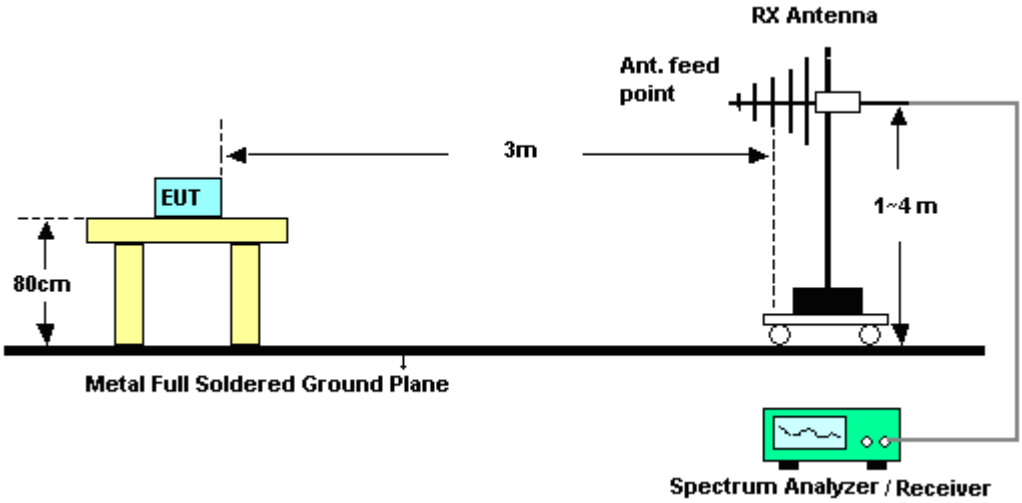
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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 ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

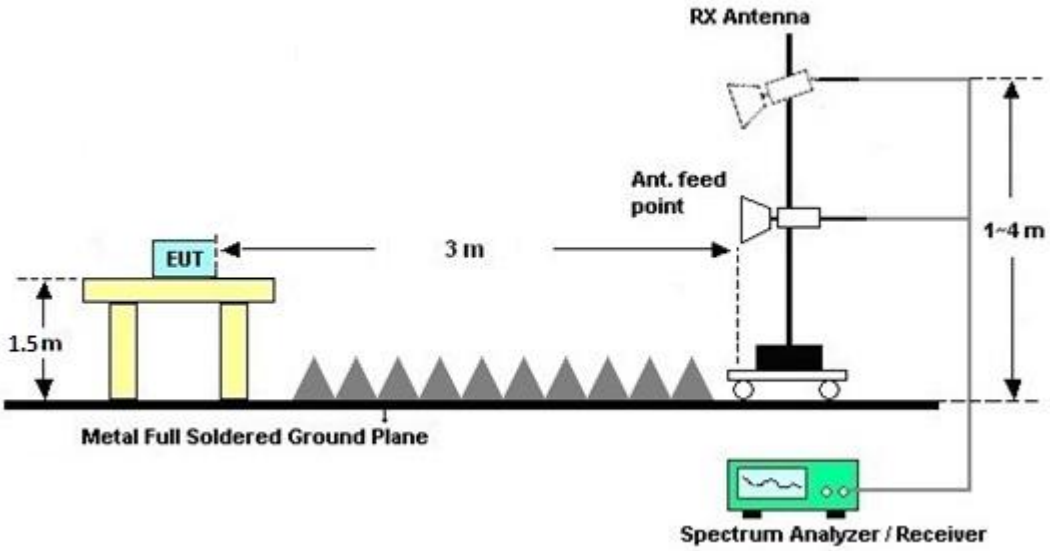
For radiated emissions below 30MHz



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 per 15.31(o) was not reported.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.

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 (dBμV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

For terminal test result, the testing follows FCC KDB 174176.

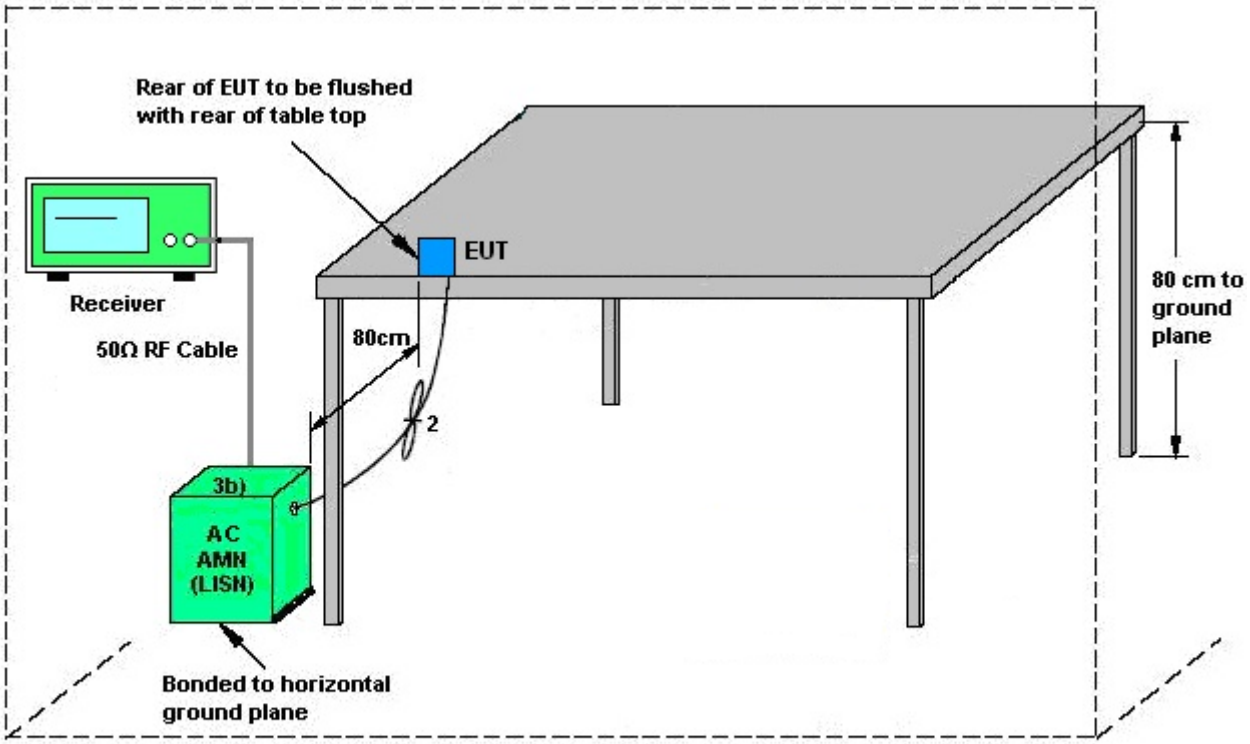
3.6.2 Measuring Instruments

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.

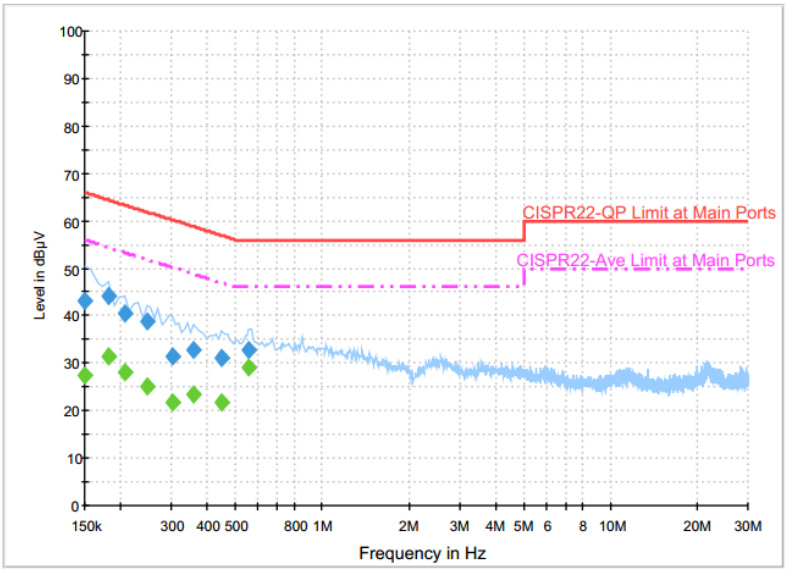
3.6.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	**Temperature :**	24~25℃
Test Engineer :	Kai-Chun Chu	**Relative Humidity :**	52~53%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	WLAN (2.4GHz) Link + Bluetooth Link + MPEG4 + Earphone + USB Cable (Charging from Adapter) + MicroSD Card		



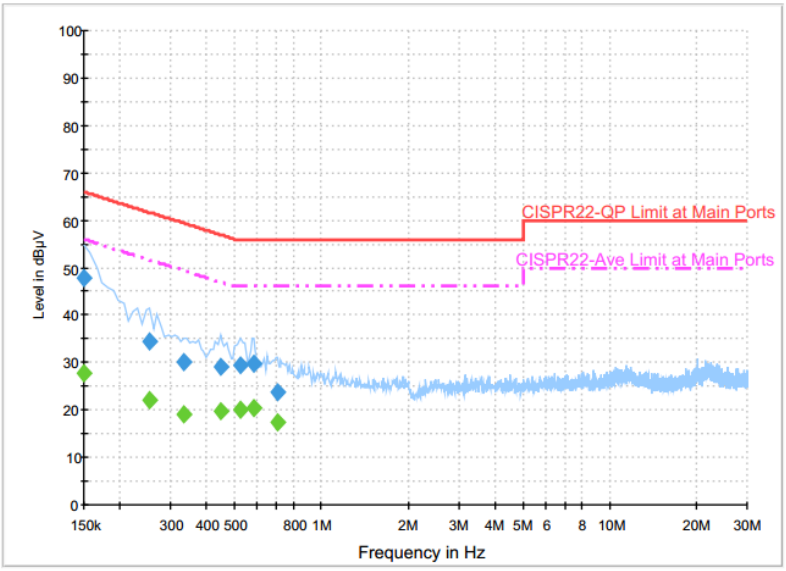
Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	43.1	Off	L1	19.6	22.9	66.0
0.182000	44.1	Off	L1	19.6	20.3	64.4
0.206000	40.6	Off	L1	19.6	22.8	63.4
0.246000	38.6	Off	L1	19.6	23.3	61.9
0.302000	31.3	Off	L1	19.6	28.9	60.2
0.358000	32.6	Off	L1	19.6	26.2	58.8
0.446000	31.2	Off	L1	19.6	25.7	56.9
0.558000	32.7	Off	L1	19.6	23.3	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	27.3	Off	L1	19.6	28.7	56.0
0.182000	31.6	Off	L1	19.6	22.8	54.4
0.206000	28.0	Off	L1	19.6	25.4	53.4
0.246000	24.9	Off	L1	19.6	27.0	51.9
0.302000	21.8	Off	L1	19.6	28.4	50.2
0.358000	23.4	Off	L1	19.6	25.4	48.8
0.446000	21.6	Off	L1	19.6	25.3	46.9
0.558000	29.2	Off	L1	19.6	16.8	46.0

Test Mode :	Mode 1	**Temperature :**	24~25℃
Test Engineer :	Kai-Chun Chu	**Relative Humidity :**	52~53%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Function Type :	WLAN (2.4GHz) Link + Bluetooth Link + MPEG4 + Earphone + USB Cable (Charging from Adapter) + MicroSD Card		



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	47.8	Off	N	19.6	18.2	66.0
0.254000	34.6	Off	N	19.6	27.0	61.6
0.334000	30.2	Off	N	19.6	29.2	59.4
0.446000	29.1	Off	N	19.6	27.8	56.9
0.526000	29.6	Off	N	19.6	26.4	56.0
0.582000	29.8	Off	N	19.6	26.2	56.0
0.702000	23.6	Off	N	19.6	32.4	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	27.6	Off	N	19.6	28.4	56.0
0.254000	22.1	Off	N	19.6	29.5	51.6
0.334000	19.0	Off	N	19.6	30.4	49.4
0.446000	19.9	Off	N	19.6	27.0	46.9
0.526000	20.0	Off	N	19.6	26.0	46.0
0.582000	20.3	Off	N	19.6	25.7	46.0
0.702000	17.5	Off	N	19.6	28.5	46.0

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 FCC rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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

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	Oct. 24, 2016 ~ Oct. 29, 2016	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Oct. 24, 2016 ~ Oct. 29, 2016	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 23, 2015	Oct. 24, 2016 ~ Oct. 29, 2016	Nov. 22, 2016	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Oct. 26, 2016 ~ Nov. 23, 2016	Sep. 01, 2017	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	10MHz~1GHz	Dec. 31, 2015	Oct. 26, 2016 ~ Nov. 23, 2016	Dec. 30, 2016	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800N1D01N-06	40103&04	30MHz to 1GHz	Jan. 13, 2016	Oct. 26, 2016 ~ Nov. 23, 2016	Jan. 12, 2017	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY55420170	N/A	Mar. 10, 2016	Oct. 26, 2016 ~ Nov. 23, 2016	Mar. 09, 2017	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Apr. 25, 2016	Oct. 26, 2016 ~ Nov. 23, 2016	Apr. 24, 2017	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	1GHz~18GHz	Jun. 27, 2016	Oct. 26, 2016 ~ Nov. 23, 2016	Jun. 26, 2017	Radiation (03CH13-HY)
Preamplifier	MITEQ	JS44-18004000-33-8P	1840917	18GHz ~ 40GHz	Jun. 14, 2016	Oct. 26, 2016 ~ Nov. 23, 2016	Jun. 13, 2017	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Jan. 30, 2016	Oct. 26, 2016 ~ Nov. 23, 2016	Jan. 29, 2017	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	N/A	Mar. 14, 2016	Oct. 26, 2016 ~ Nov. 23, 2016	Mar. 13, 2017	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Oct. 26, 2016 ~ Nov. 23, 2016	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Oct. 26, 2016 ~ Nov. 23, 2016	N/A	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 02, 2015	Oct. 26, 2016 ~ Oct. 29, 2016	Nov. 01, 2016	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 08, 2016	Nov. 23, 2016	Nov. 07, 2017	Radiation (03CH13-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 01, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Nov. 01, 2016	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Nov. 01, 2016	Dec. 01, 2016	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.7

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.4

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.3

Appendix A. Conducted Test Results

Report Number : FR670616-01C

A1 - DTS Part

Test Engineer:	Derek Hsu	Temperature:	21~25	°C
Test Date:	2016/10/24~2016/10/29	Relative Humidity:	51~54	%

Report Number : 670616-01C

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
11b	1Mbps	1	1	2412	12.40	9.10	0.50	Pass
11b	1Mbps	1	6	2437	12.40	9.08	0.50	Pass
11b	1Mbps	1	11	2462	12.45	9.10	0.50	Pass
11b	1Mbps	1	12	2467	12.45	9.10	0.50	Pass
11b	1Mbps	1	13	2472	12.40	9.10	0.50	Pass
11g	6Mbps	1	1	2412	17.35	16.34	0.50	Pass
11g	6Mbps	1	6	2437	17.20	16.36	0.50	Pass
11g	6Mbps	1	11	2462	17.40	16.30	0.50	Pass
11g	6Mbps	1	12	2467	17.30	16.38	0.50	Pass
11g	6Mbps	1	13	2472	17.80	16.58	0.50	Pass
HT20	MCS0	1	1	2412	18.05	17.60	0.50	Pass
HT20	MCS0	1	6	2437	18.05	17.56	0.50	Pass
HT20	MCS0	1	11	2462	18.05	17.58	0.50	Pass
HT20	MCS0	1	12	2467	18.10	17.58	0.50	Pass
HT20	MCS0	1	13	2472	18.35	17.80	0.50	Pass
HT40	MCS0	1	3	2422	36.20	36.28	0.50	Pass
HT40	MCS0	1	6	2437	36.30	36.36	0.50	Pass
HT40	MCS0	1	9	2452	36.20	36.28	0.50	Pass
HT40	MCS0	1	10	2457	36.20	36.08	0.50	Pass
HT40	MCS0	1	11	2462	36.10	35.92	0.50	Pass

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TEST RESULTS DATA
Peak Power Table

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
11b	1Mbps	1	1	2412	17.77	30.00	0.79	18.56	36.00	Pass
11b	1Mbps	1	6	2437	18.11	30.00	0.79	18.90	36.00	Pass
11b	1Mbps	1	11	2462	18.13	30.00	0.79	18.92	36.00	Pass
11b	1Mbps	1	12	2467	18.10	30.00	0.79	18.89	36.00	Pass
11b	1Mbps	1	13	2472	18.07	30.00	0.79	18.86	36.00	Pass
11g	6Mbps	1	1	2412	21.55	30.00	0.79	22.34	36.00	Pass
11g	6Mbps	1	6	2437	21.54	30.00	0.79	22.33	36.00	Pass
11g	6Mbps	1	11	2462	21.50	30.00	0.79	22.29	36.00	Pass
11g	6Mbps	1	12	2467	21.67	30.00	0.79	22.46	36.00	Pass
11g	6Mbps	1	13	2472	20.56	30.00	0.79	21.35	36.00	Pass
HT20	MCS0	1	1	2412	21.50	30.00	0.79	22.29	36.00	Pass
HT20	MCS0	1	6	2437	21.44	30.00	0.79	22.23	36.00	Pass
HT20	MCS0	1	11	2462	21.48	30.00	0.79	22.27	36.00	Pass
HT20	MCS0	1	12	2467	21.59	30.00	0.79	22.38	36.00	Pass
HT20	MCS0	1	13	2472	20.25	30.00	0.79	21.04	36.00	Pass
HT40	MCS0	1	3	2422	21.09	30.00	0.79	21.88	36.00	Pass
HT40	MCS0	1	6	2437	21.21	30.00	0.79	22.00	36.00	Pass
HT40	MCS0	1	9	2452	21.34	30.00	0.79	22.13	36.00	Pass
HT40	MCS0	1	10	2457	21.11	30.00	0.79	21.90	36.00	Pass
HT40	MCS0	1	11	2462	21.07	30.00	0.79	21.86	36.00	Pass

Report Number : 670616-01C

TEST RESULTS DATA
Average Power Table
(Reporting Only)

2.4GHz Band						
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
11b	1Mbps	1	1	2412	0.00	14.71
11b	1Mbps	1	6	2437	0.00	14.94
11b	1Mbps	1	11	2462	0.00	14.95
11b	1Mbps	1	12	2467	0.00	14.92
11b	1Mbps	1	13	2472	0.00	14.90
11g	6Mbps	1	1	2412	0.00	12.68
11g	6Mbps	1	6	2437	0.00	12.60
11g	6Mbps	1	11	2462	0.00	12.58
11g	6Mbps	1	12	2467	0.00	12.77
11g	6Mbps	1	13	2472	0.00	11.40
HT20	MCS0	1	1	2412	0.00	12.68
HT20	MCS0	1	6	2437	0.00	12.59
HT20	MCS0	1	11	2462	0.00	12.60
HT20	MCS0	1	12	2467	0.00	12.72
HT20	MCS0	1	13	2472	0.00	11.18
HT40	MCS0	1	3	2422	0.00	12.88
HT40	MCS0	1	6	2437	0.00	12.95
HT40	MCS0	1	9	2452	0.00	12.96
HT40	MCS0	1	10	2457	0.00	12.66
HT40	MCS0	1	11	2462	0.00	12.65

Report Number : 670616-01C

TEST RESULTS DATA
Peak Power Density

2.4GHz Band								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
11b	1Mbps	1	1	2412	-13.92	0.79	8.00	Pass
11b	1Mbps	1	6	2437	-13.68	0.79	8.00	Pass
11b	1Mbps	1	11	2462	-13.68	0.79	8.00	Pass
11b	1Mbps	1	12	2467	-13.43	0.79	8.00	Pass
11b	1Mbps	1	13	2472	-13.46	0.79	8.00	Pass
11g	6Mbps	1	1	2412	-15.03	0.79	8.00	Pass
11g	6Mbps	1	6	2437	-14.72	0.79	8.00	Pass
11g	6Mbps	1	11	2462	-14.79	0.79	8.00	Pass
11g	6Mbps	1	12	2467	-14.12	0.79	8.00	Pass
11g	6Mbps	1	13	2472	-14.16	0.79	8.00	Pass
HT20	MCS0	1	1	2412	-15.33	0.79	8.00	Pass
HT20	MCS0	1	6	2437	-15.11	0.79	8.00	Pass
HT20	MCS0	1	11	2462	-14.47	0.79	8.00	Pass
HT20	MCS0	1	12	2467	-14.87	0.79	8.00	Pass
HT20	MCS0	1	13	2472	-13.53	0.79	8.00	Pass
HT40	MCS0	1	3	2422	-15.83	0.79	8.00	Pass
HT40	MCS0	1	6	2437	-15.46	0.79	8.00	Pass
HT40	MCS0	1	9	2452	-15.08	0.79	8.00	Pass
HT40	MCS0	1	10	2457	-14.89	0.79	8.00	Pass
HT40	MCS0	1	11	2462	-14.51	0.79	8.00	Pass

Appendix B. Radiated Spurious Emission

Test Engineer :	Alex Jheng, Bill Chang, and Wilson Wu	Temperature :	24~25°C
		Relative Humidity :	48~55%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	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		2356.935	52.55	-21.45	74	49.84	27.07	6.93	31.29	202	62	P	H
		2389.905	42.54	-11.46	54	39.68	27.15	6.98	31.27	202	62	A	H
	*	2412	104.28	-	-	101.36	27.19	7	31.27	202	62	P	H
	*	2412	101.15	-	-	98.23	27.19	7	31.27	202	62	A	H
													H
													H
		2326.905	52.55	-21.45	74	49.97	26.99	6.89	31.3	100	98	P	V
		2388.015	42.06	-11.94	54	39.21	27.15	6.98	31.28	100	98	A	V
	*	2412	100.89	-	-	97.97	27.19	7	31.27	100	98	P	V
	*	2412	97.75	-	-	94.83	27.19	7	31.27	100	98	A	V
													V
													V
802.11b CH 06 2437MHz		2376.36	53.16	-20.84	74	50.37	27.11	6.96	31.28	125	130	P	H
		2383.08	42.65	-11.35	54	39.86	27.11	6.96	31.28	125	130	A	H
	*	2437	104.72	-	-	101.67	27.28	7.03	31.26	125	130	P	H
	*	2437	101.57	-	-	98.52	27.28	7.03	31.26	125	130	A	H
		2488.59	53.87	-20.13	74	50.63	27.4	7.09	31.25	125	130	P	H
		2490.97	42.76	-11.24	54	39.52	27.4	7.09	31.25	125	130	A	H
		2355.64	52.54	-21.46	74	49.83	27.07	6.93	31.29	100	80	P	V
		2383.22	41.98	-12.02	54	39.19	27.11	6.96	31.28	100	80	A	V
	*	2437	102.16	-	-	99.11	27.28	7.03	31.26	100	80	P	V
	*	2437	99.03	-	-	95.98	27.28	7.03	31.26	100	80	A	V
		2500	52.68	-21.32	74	49.43	27.4	7.09	31.24	100	80	P	V
		2490.9	42.3	-11.7	54	39.06	27.4	7.09	31.25	100	80	A	V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 11 2462MHz	*	2462	104.81	-	-	101.7	27.32	7.05	31.26	149	127	P	H
	*	2462	101.71	-	-	98.6	27.32	7.05	31.26	149	127	A	H
		2492.92	54.1	-19.9	74	50.85	27.4	7.09	31.24	149	127	P	H
		2487.08	42.78	-11.22	54	39.6	27.36	7.07	31.25	149	127	A	H
													H
													H
	*	2462	101.87	-	-	98.76	27.32	7.05	31.26	119	67	P	V
	*	2462	98.74	-	-	95.63	27.32	7.05	31.26	119	67	A	V
		2499.8	53.09	-20.91	74	49.84	27.4	7.09	31.24	119	67	P	V
		2498.08	42.3	-11.7	54	39.05	27.4	7.09	31.24	119	67	A	V
													V
													V
802.11b CH 12 2467MHz	*	2467	104.57	-	-	101.45	27.32	7.05	31.25	174	127	P	H
	*	2467	101.45	-	-	98.33	27.32	7.05	31.25	174	127	A	H
		2492.48	53.61	-20.39	74	50.36	27.4	7.09	31.24	174	127	P	H
		2484.08	42.96	-11.04	54	39.78	27.36	7.07	31.25	174	127	A	H
													H
													H
	*	2467	101.75	-	-	98.63	27.32	7.05	31.25	120	66	P	V
	*	2467	98.64	-	-	95.52	27.32	7.05	31.25	120	66	A	V
		2496.76	53.16	-20.84	74	49.91	27.4	7.09	31.24	120	66	P	V
		2484.04	42.46	-11.54	54	39.28	27.36	7.07	31.25	120	66	A	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 13 2472MHz	*	2472	104.42	-	-	101.24	27.36	7.07	31.25	141	128	P	H
	*	2472	101.29	-	-	98.11	27.36	7.07	31.25	141	128	A	H
		2483.56	56.46	-17.54	74	53.28	27.36	7.07	31.25	141	128	P	H
		2483.52	49.44	-4.56	54	46.26	27.36	7.07	31.25	141	128	A	H
													H
													H
	*	2472	101.67	-	-	98.49	27.36	7.07	31.25	116	65	P	V
	*	2472	98.52	-	-	95.34	27.36	7.07	31.25	116	65	A	V
		2483.8	55.15	-18.85	74	51.97	27.36	7.07	31.25	116	65	P	V
		2483.52	46.99	-7.01	54	43.81	27.36	7.07	31.25	116	65	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	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	44.02	-29.98	74	59.27	31.22	10.07	56.54	100	0	P	H
													H
													H
													H
		4824	41.61	-32.39	74	56.86	31.22	10.07	56.54	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	45.3	-28.7	74	60.35	31.31	10.11	56.47	100	0	P	H
		7311	41.75	-32.25	74	50.15	36.27	12.53	57.2	100	0	P	H
													H
													H
		4874	42.15	-31.85	74	57.2	31.31	10.11	56.47	100	0	P	V
		7311	41.47	-32.53	74	49.87	36.27	12.53	57.2	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	46.44	-27.56	74	61.31	31.39	10.14	56.4	100	0	P	H
		7386	42.22	-31.78	74	50.31	36.51	12.73	57.33	100	0	P	H
													H
													H
		4924	42.46	-31.54	74	57.33	31.39	10.14	56.4	100	0	P	V
		7386	43.03	-30.97	74	51.12	36.51	12.73	57.33	100	0	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz		4934	45.33	-28.67	74	60.2	31.39	10.14	56.4	100	0	P	H
		7401	41.85	-32.15	74	49.9	36.56	12.75	57.36	100	0	P	H
													H
													H
		4934	42.7	-31.3	74	57.57	31.39	10.14	56.4	100	0	P	V
		7401	42.58	-31.42	74	50.63	36.56	12.75	57.36	100	0	P	V
													V
													V
802.11b CH 13 2472MHz		4944	45.74	-28.26	74	60.54	31.42	10.15	56.37	100	0	P	H
		7416	42.53	-31.47	74	50.58	36.56	12.75	57.36	100	0	P	H
													H
													H
		4944	43.11	-30.89	74	57.91	31.42	10.15	56.37	100	0	P	V
		7416	41.5	-32.5	74	49.55	36.56	12.75	57.36	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 802.11g (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.8	57.82	-16.18	74	54.96	27.15	6.98	31.27	232	59	P	H
		2390	46.27	-7.73	54	43.41	27.15	6.98	31.27	232	59	A	H
	*	2412	104.41	-	-	101.49	27.19	7	31.27	232	59	P	H
	*	2412	96.43	-	-	93.51	27.19	7	31.27	232	59	A	H
													H
													H
		2389.695	58.73	-15.27	74	55.88	27.15	6.98	31.28	329	92	P	V
		2390	45.21	-8.79	54	42.35	27.15	6.98	31.27	329	92	A	V
	*	2412	102.47	-	-	99.55	27.19	7	31.27	329	92	P	V
	*	2412	94.85	-	-	91.93	27.19	7	31.27	329	92	A	V
													V
													V
802.11g CH 06 2437MHz		2387.84	54.04	-19.96	74	51.19	27.15	6.98	31.28	118	130	P	H
		2389.66	43.83	-10.17	54	40.98	27.15	6.98	31.28	118	130	A	H
	*	2437	106.6	-	-	103.55	27.28	7.03	31.26	118	130	P	H
	*	2437	98.84	-	-	95.79	27.28	7.03	31.26	118	130	A	H
		2498.18	56.13	-17.87	74	52.88	27.4	7.09	31.24	118	130	P	H
		2488.59	44.12	-9.88	54	40.88	27.4	7.09	31.25	118	130	A	H
		2376.64	54.19	-19.81	74	51.4	27.11	6.96	31.28	123	67	P	V
		2389.8	43.12	-10.88	54	40.26	27.15	6.98	31.27	123	67	A	V
	*	2437	103.67	-	-	100.62	27.28	7.03	31.26	123	67	P	V
	*	2437	96.2	-	-	93.15	27.28	7.03	31.26	123	67	A	V
		2497.83	53.77	-20.23	74	50.52	27.4	7.09	31.24	123	67	P	V
		2492.86	43.19	-10.81	54	39.94	27.4	7.09	31.24	123	67	A	V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 11 2462MHz	*	2462	104.83	-	-	101.72	27.32	7.05	31.26	144	129	P	H
	*	2462	97.27	-	-	94.16	27.32	7.05	31.26	144	129	A	H
		2483.76	58.66	-15.34	74	55.48	27.36	7.07	31.25	144	129	P	H
		2483.52	45.59	-8.41	54	42.41	27.36	7.07	31.25	144	129	A	H
													H
													H
	*	2462	102.43	-	-	99.32	27.32	7.05	31.26	282	77	P	V
	*	2462	94.93	-	-	91.82	27.32	7.05	31.26	282	77	A	V
		2483.68	56.35	-17.65	74	53.17	27.36	7.07	31.25	282	77	P	V
		2483.52	44.61	-9.39	54	41.43	27.36	7.07	31.25	282	77	A	V
													V
													V
802.11g CH 12 2467MHz	*	2467	106.65	-	-	103.53	27.32	7.05	31.25	145	128	P	H
	*	2467	99.36	-	-	96.24	27.32	7.05	31.25	145	128	A	H
		2485.28	66.4	-7.6	74	63.22	27.36	7.07	31.25	145	128	P	H
		2483.52	51.5	-2.5	54	48.32	27.36	7.07	31.25	145	128	A	H
													H
													H
	*	2467	103.46	-	-	100.34	27.32	7.05	31.25	120	64	P	V
	*	2467	95.92	-	-	92.8	27.32	7.05	31.25	120	64	A	V
		2483.76	62.65	-11.35	74	59.47	27.36	7.07	31.25	120	64	P	V
		2483.52	48.47	-5.53	54	45.29	27.36	7.07	31.25	120	64	A	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 13 2472MHz	*	2472	103.54	-	-	100.36	27.36	7.07	31.25	123	127	P	H
	*	2472	95.85	-	-	92.67	27.36	7.07	31.25	123	127	A	H
		2485.24	67.74	-6.26	74	64.56	27.36	7.07	31.25	123	127	P	H
		2483.52	52.43	-1.57	54	49.25	27.36	7.07	31.25	123	127	A	H
													H
													H
	*	2472	100.17	-	-	96.99	27.36	7.07	31.25	132	67	P	V
	*	2472	92.69	-	-	89.51	27.36	7.07	31.25	132	67	A	V
		2484.8	65.19	-8.81	74	62.01	27.36	7.07	31.25	132	67	P	V
		2483.52	49.05	-4.95	54	45.87	27.36	7.07	31.25	132	67	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	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	41.96	-32.04	74	57.21	31.22	10.07	56.54	100	0	P	H
													H
													H
													H
		4824	40.06	-33.94	74	55.31	31.22	10.07	56.54	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	44.3	-29.7	74	59.35	31.31	10.11	56.47	100	0	P	H
		7311	42.24	-31.76	74	50.64	36.27	12.53	57.2	100	0	P	H
													H
													H
		4874	39.5	-34.5	74	54.55	31.31	10.11	56.47	100	0	P	V
		7311	42.59	-31.41	74	50.99	36.27	12.53	57.2	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	43.93	-30.07	74	58.8	31.39	10.14	56.4	100	0	P	H
		7386	43.28	-30.72	74	51.37	36.51	12.73	57.33	100	0	P	H
													H
													H
		4924	39.64	-34.36	74	54.51	31.39	10.14	56.4	100	0	P	V
		7386	42.55	-31.45	74	50.64	36.51	12.73	57.33	100	0	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 12 2467MHz		4934	42.45	-31.55	74	57.32	31.39	10.14	56.4	100	0	P	H
		7401	42.05	-31.95	74	50.1	36.56	12.75	57.36	100	0	P	H
													H
													H
		4934	39.45	-34.55	74	54.32	31.39	10.14	56.4	100	0	P	V
		7401	43	-31	74	51.05	36.56	12.75	57.36	100	0	P	V
													V
													V
802.11g CH 13 2472MHz		4944	41.18	-32.82	74	55.98	31.42	10.15	56.37	100	0	P	H
		7416	43.39	-30.61	74	51.44	36.56	12.75	57.36	100	0	P	H
													H
													H
		4944	37.95	-36.05	74	52.75	31.42	10.15	56.37	100	0	P	V
		7416	44.23	-29.77	74	52.28	36.56	12.75	57.36	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	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		2389.695	62.01	-11.99	74	59.16	27.15	6.98	31.28	104	133	P	H
		2390	46.79	-7.21	54	43.93	27.15	6.98	31.27	104	133	A	H
	*	2412	103.02	-	-	100.1	27.19	7	31.27	104	133	P	H
	*	2412	95.42	-	-	92.5	27.19	7	31.27	104	133	A	H
													H
													H
		2389.485	56.68	-17.32	74	53.83	27.15	6.98	31.28	103	83	P	V
		2390	45.13	-8.87	54	42.27	27.15	6.98	31.27	103	83	A	V
	*	2412	100.33	-	-	97.41	27.19	7	31.27	103	83	P	V
	*	2412	92.82	-	-	89.9	27.19	7	31.27	103	83	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2388.68	53.92	-20.08	74	51.07	27.15	6.98	31.28	122	132	P	H
		2389.52	43.63	-10.37	54	40.78	27.15	6.98	31.28	122	132	A	H
	*	2437	105.07	-	-	102.02	27.28	7.03	31.26	122	132	P	H
	*	2437	97.98	-	-	94.93	27.28	7.03	31.26	122	132	A	H
		2484.81	54.76	-19.24	74	51.58	27.36	7.07	31.25	122	132	P	H
		2485.58	43.61	-10.39	54	40.43	27.36	7.07	31.25	122	132	A	H
		2389.52	53.16	-20.84	74	50.31	27.15	6.98	31.28	203	84	P	V
		2387	42.73	-11.27	54	39.88	27.15	6.98	31.28	203	84	A	V
	*	2437	102.91	-	-	99.86	27.28	7.03	31.26	203	84	P	V
	*	2437	95.3	-	-	92.25	27.28	7.03	31.26	203	84	A	V
		2489.5	53.45	-20.55	74	50.21	27.4	7.09	31.25	203	84	P	V
		2497.06	42.85	-11.15	54	39.6	27.4	7.09	31.24	203	84	A	V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	2462	104.37	-	-	101.26	27.32	7.05	31.26	100	131	P	H
	*	2462	96.74	-	-	93.63	27.32	7.05	31.26	100	131	A	H
		2484.08	62.63	-11.37	74	59.45	27.36	7.07	31.25	100	131	P	H
		2483.52	46.29	-7.71	54	43.11	27.36	7.07	31.25	100	131	A	H
802.11n													H
HT20													H
CH 11	*	2462	101.81	-	-	98.7	27.32	7.05	31.26	140	64	P	V
2462MHz	*	2462	94.1	-	-	90.99	27.32	7.05	31.26	140	64	A	V
		2484	60.13	-13.87	74	56.95	27.36	7.07	31.25	140	64	P	V
		2483.52	44.6	-9.4	54	41.42	27.36	7.07	31.25	140	64	A	V
													V
													V
	*	2467	105.08	-	-	101.96	27.32	7.05	31.25	100	131	P	H
	*	2467	97.56	-	-	94.44	27.32	7.05	31.25	100	131	A	H
		2483.68	65.49	-8.51	74	62.31	27.36	7.07	31.25	100	131	P	H
		2483.52	51.26	-2.74	54	48.08	27.36	7.07	31.25	100	131	A	H
802.11n													H
HT20													H
CH 12	*	2467	104.15	-	-	101.03	27.32	7.05	31.25	196	64	P	V
2467MHz	*	2467	96.59	-	-	93.47	27.32	7.05	31.25	196	64	A	V
		2483.52	63.31	-10.69	74	60.13	27.36	7.07	31.25	196	64	P	V
		2483.52	49.43	-4.57	54	46.25	27.36	7.07	31.25	196	64	A	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 13 2472MHz	*	2472	103.4	-	-	100.22	27.36	7.07	31.25	100	130	P	H
	*	2472	95.54	-	-	92.36	27.36	7.07	31.25	100	130	A	H
		2484.8	70.49	-3.51	74	67.31	27.36	7.07	31.25	100	130	P	H
		2483.52	52.91	-1.09	54	49.73	27.36	7.07	31.25	100	130	A	H
													H
													H
	*	2472	102.03	-	-	98.85	27.36	7.07	31.25	148	64	P	V
	*	2472	93.9	-	-	90.72	27.36	7.07	31.25	148	64	A	V
		2484.08	68.15	-5.85	74	64.97	27.36	7.07	31.25	148	64	P	V
		2483.56	51.13	-2.87	54	47.95	27.36	7.07	31.25	148	64	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	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	40.46	-33.54	74	55.71	31.22	10.07	56.54	100	0	P	H
													H
													H
													H
		4824	38.48	-35.52	74	53.73	31.22	10.07	56.54	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	41.86	-32.14	74	56.91	31.31	10.11	56.47	100	0	P	H
		7311	41.72	-32.28	74	50.12	36.27	12.53	57.2	100	0	P	H
													H
													H
		4874	38.42	-35.58	74	53.47	31.31	10.11	56.47	100	0	P	V
		7311	41.95	-32.05	74	50.35	36.27	12.53	57.2	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	40.86	-33.14	74	55.73	31.39	10.14	56.4	100	0	P	H
		7386	42.75	-31.25	74	50.84	36.51	12.73	57.33	100	0	P	H
													H
													H
		4924	39	-35	74	53.87	31.39	10.14	56.4	100	0	P	V
		7386	43.2	-30.8	74	51.29	36.51	12.73	57.33	100	0	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 12 2467MHz		4934	42	-32	74	56.87	31.39	10.14	56.4	100	0	P	H
		7401	42.41	-31.59	74	50.46	36.56	12.75	57.36	100	0	P	H
													H
													H
		4934	41.27	-32.73	74	56.14	31.39	10.14	56.4	100	0	P	V
		7401	42.47	-31.53	74	50.52	36.56	12.75	57.36	100	0	P	V
													V
													V
802.11n HT20 CH 13 2472MHz		4944	39.82	-34.18	74	54.62	31.42	10.15	56.37	100	0	P	H
		7416	42.44	-31.56	74	50.49	36.56	12.75	57.36	100	0	P	H
													H
													H
		4944	37.78	-36.22	74	52.58	31.42	10.15	56.37	100	0	P	V
		7416	41.57	-32.43	74	49.62	36.56	12.75	57.36	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	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		2388.54	65.58	-8.42	74	62.73	27.15	6.98	31.28	103	49	P	H
		2389.94	48.65	-5.35	54	45.79	27.15	6.98	31.27	103	49	A	H
	*	2422	100.5	-	-	97.51	27.23	7.02	31.26	103	49	P	H
	*	2422	92.74	-	-	89.75	27.23	7.02	31.26	103	49	A	H
		2484.11	54.23	-19.77	74	51.05	27.36	7.07	31.25	103	49	P	H
		2488.59	42.92	-11.08	54	39.68	27.4	7.09	31.25	103	49	A	H
		2387.98	63.77	-10.23	74	60.92	27.15	6.98	31.28	173	83	P	V
		2389.94	46.94	-7.06	54	44.08	27.15	6.98	31.27	173	83	A	V
	*	2422	99.31	-	-	96.32	27.23	7.02	31.26	173	83	P	V
	*	2422	91.73	-	-	88.74	27.23	7.02	31.26	173	83	A	V
		2489.15	52.87	-21.13	74	49.63	27.4	7.09	31.25	173	83	P	V
		2492.44	42.3	-11.7	54	39.05	27.4	7.09	31.24	173	83	A	V
802.11n HT40 CH 06 2437MHz		2377.76	55.69	-18.31	74	52.9	27.11	6.96	31.28	100	49	P	H
		2389.94	44.6	-9.4	54	41.74	27.15	6.98	31.27	100	49	A	H
	*	2437	102.03	-	-	98.98	27.28	7.03	31.26	100	49	P	H
	*	2437	94.33	-	-	91.28	27.28	7.03	31.26	100	49	A	H
		2488.1	55.07	-18.93	74	51.83	27.4	7.09	31.25	100	49	P	H
		2484.11	43.66	-10.34	54	40.48	27.36	7.07	31.25	100	49	A	H
		2382.24	53.61	-20.39	74	50.82	27.11	6.96	31.28	171	63	P	V
		2389.94	43.15	-10.85	54	40.29	27.15	6.98	31.27	171	63	A	V
	*	2437	100.55	-	-	97.5	27.28	7.03	31.26	171	63	P	V
	*	2437	92.73	-	-	89.68	27.28	7.03	31.26	171	63	A	V
		2489.64	53.62	-20.38	74	50.38	27.4	7.09	31.25	171	63	P	V
		2492.23	42.98	-11.02	54	39.73	27.4	7.09	31.24	171	63	A	V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 09 2452MHz		2376.64	53.72	-20.28	74	50.93	27.11	6.96	31.28	100	48	P	H
		2389.94	42.84	-11.16	54	39.98	27.15	6.98	31.27	100	48	A	H
	*	2452	100.36	-	-	97.31	27.28	7.03	31.26	100	48	P	H
	*	2452	92.73	-	-	89.68	27.28	7.03	31.26	100	48	A	H
		2484.81	62.04	-11.96	74	58.86	27.36	7.07	31.25	100	48	P	H
		2483.5	45.41	-8.59	54	42.23	27.36	7.07	31.25	100	48	A	H
		2382.8	53.05	-20.95	74	50.26	27.11	6.96	31.28	120	65	P	V
		2389.66	42.49	-11.51	54	39.64	27.15	6.98	31.28	120	65	A	V
	*	2452	98.08	-	-	95.03	27.28	7.03	31.26	120	65	P	V
	*	2452	90.57	-	-	87.52	27.28	7.03	31.26	120	65	A	V
		2484.88	59.19	-14.81	74	56.01	27.36	7.07	31.25	120	65	P	V
		2483.5	43.84	-10.16	54	40.66	27.36	7.07	31.25	120	65	A	V
802.11n HT40 CH 10 2457MHz		2387	52.97	-21.03	74	50.12	27.15	6.98	31.28	100	130	P	H
		2389.94	42.51	-11.49	54	39.65	27.15	6.98	31.27	100	130	A	H
	*	2457	101.27	-	-	98.16	27.32	7.05	31.26	100	130	P	H
	*	2457	93.64	-	-	90.53	27.32	7.05	31.26	100	130	A	H
		2486.7	64.7	-9.3	74	61.52	27.36	7.07	31.25	100	130	P	H
		2483.5	48.68	-5.32	54	45.5	27.36	7.07	31.25	100	130	A	H
		2370.48	52.96	-21.04	74	50.17	27.11	6.96	31.28	139	64	P	V
		2389.8	42.18	-11.82	54	39.32	27.15	6.98	31.27	139	64	A	V
	*	2457	98.79	-	-	95.68	27.32	7.05	31.26	139	64	P	V
	*	2457	91.16	-	-	88.05	27.32	7.05	31.26	139	64	A	V
		2487.26	61.89	-12.11	74	58.71	27.36	7.07	31.25	139	64	P	V
		2483.5	45.86	-8.14	54	42.68	27.36	7.07	31.25	139	64	A	V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 11 2462MHz		2354.1	53.41	-20.59	74	50.7	27.07	6.93	31.29	100	130	P	H
		2389.94	42.72	-11.28	54	39.86	27.15	6.98	31.27	100	130	A	H
	*	2462	102.22	-	-	99.11	27.32	7.05	31.26	100	130	P	H
	*	2462	93.88	-	-	90.77	27.32	7.05	31.26	100	130	A	H
		2483.55	68.39	-5.61	74	65.21	27.36	7.07	31.25	100	130	P	H
		2483.5	51.59	-2.41	54	48.41	27.36	7.07	31.25	100	130	A	H
		2360.26	52.58	-21.42	74	49.87	27.07	6.93	31.29	138	64	P	V
		2389.38	42.17	-11.83	54	39.32	27.15	6.98	31.28	138	64	A	V
	*	2462	99.92	-	-	96.81	27.32	7.05	31.26	138	64	P	V
	*	2462	92.24	-	-	89.13	27.32	7.05	31.26	138	64	A	V
		2483.69	65.94	-8.06	74	62.76	27.36	7.07	31.25	138	64	P	V
		2483.5	49.38	-4.62	54	46.2	27.36	7.07	31.25	138	64	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	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	38	-36	74	53.19	31.25	10.08	56.52	100	0	P	H
		7266	41.49	-32.51	74	50	36.17	12.46	57.14	100	0	P	H
													H
													H
		4844	37.52	-36.48	74	52.71	31.25	10.08	56.52	100	0	P	V
		7266	42.47	-31.53	74	50.98	36.17	12.46	57.14	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4874	38.83	-35.17	74	53.88	31.31	10.11	56.47	100	0	P	H
		7311	43.75	-30.25	74	52.15	36.27	12.53	57.2	100	0	P	H
													H
													H
		4874	38.4	-35.6	74	53.45	31.31	10.11	56.47	100	0	P	V
		7311	42.55	-31.45	74	50.95	36.27	12.53	57.2	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4904	38.48	-35.52	74	53.41	31.36	10.13	56.42	100	0	P	H
		7356	42.75	-31.25	74	50.97	36.41	12.65	57.28	100	0	P	H
													H
													H
		4904	38.01	-35.99	74	52.94	31.36	10.13	56.42	100	0	P	V
		7356	42.53	-31.47	74	50.75	36.41	12.65	57.28	100	0	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 10 2457MHz		4914	39.02	-34.98	74	53.95	31.36	10.13	56.42	100	0	P	H
		7371	41.71	-32.29	74	49.87	36.46	12.69	57.31	100	0	P	H
													H
													H
		4914	39.21	-34.79	74	54.14	31.36	10.13	56.42	100	0	P	V
		7371	41.92	-32.08	74	50.08	36.46	12.69	57.31	100	0	P	V
													V
													V
802.11n HT40 CH 11 2462MHz		4924	40.26	-33.74	74	55.13	31.39	10.14	56.4	100	0	P	H
		7386	43.43	-30.57	74	51.52	36.51	12.73	57.33	100	0	P	H
													H
													H
		4924	38.88	-35.12	74	53.75	31.39	10.14	56.4	100	0	P	V
		7386	42.61	-31.39	74	50.7	36.51	12.73	57.33	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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		52.14	25.6	-14.4	40	42.52	14.2	0.8	31.92	100	76	P	H
		202.53	25.14	-18.36	43.5	39.84	15.59	1.52	31.81	-	-	P	H
		263.01	23.86	-22.14	46	34.27	19.62	1.74	31.77	-	-	P	H
		436.5	22.96	-23.04	46	29.73	22.71	2.32	31.8	-	-	P	H
		671.7	27.49	-18.51	46	30.67	25.88	2.95	32.01	-	-	P	H
		944	31.53	-14.47	46	29.3	29.96	3.44	31.17	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	33.14	-6.86	40	38.5	25.9	0.69	31.95	100	41	P	V
		117.75	27.36	-16.14	43.5	40.71	17.39	1.14	31.88	-	-	P	V
		258.96	20.45	-25.55	46	30.8	19.69	1.73	31.77	-	-	P	V
		391	22.28	-23.72	46	29.86	21.99	2.19	31.76	-	-	P	V
		630.4	26.28	-19.72	46	29.85	25.54	2.86	31.97	-	-	P	V
		941.9	31.96	-14.04	46	29.8	29.91	3.44	31.19	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

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

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix C. Radiated Spurious Emission Plots

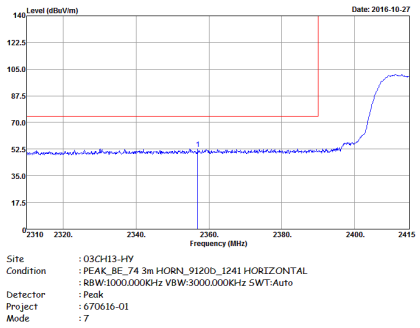
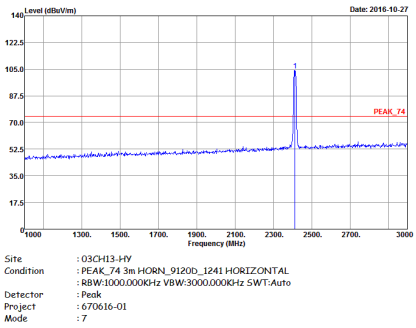
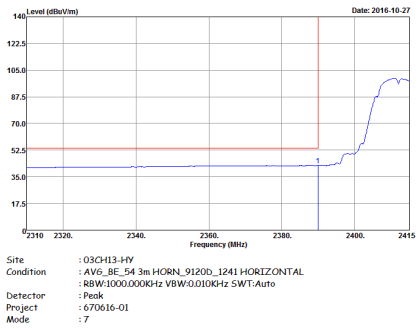
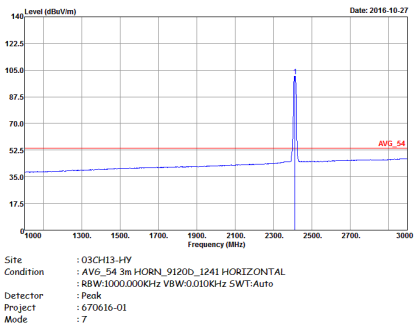
Test Engineer :	Alex Jheng, Bill Chang, and Wilson Wu	**Temperature :**	24~25°C
		Relative Humidity :	48~55%

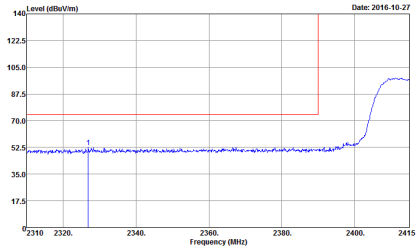
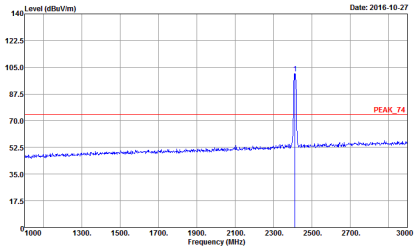
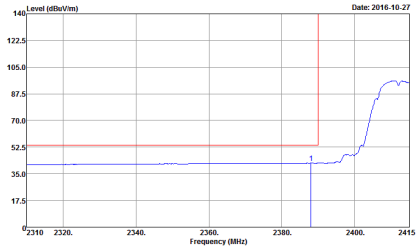
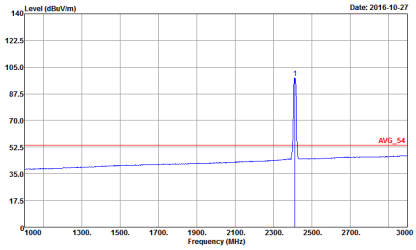
Note symbol

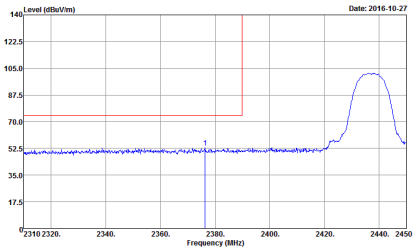
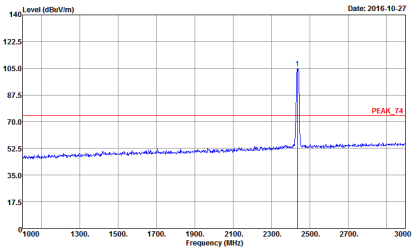
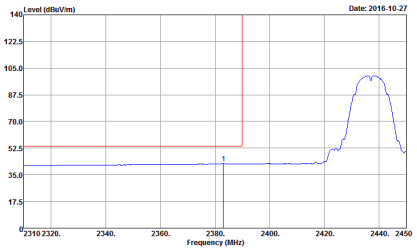
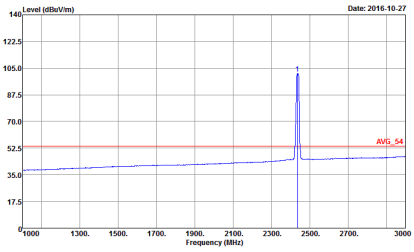
-L	**Low channel location**
-R	**High channel location**

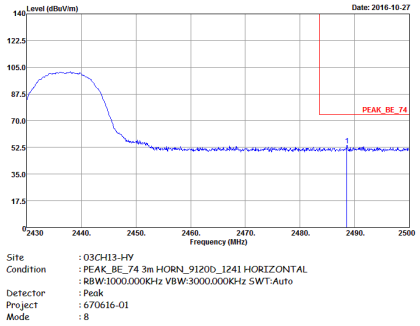
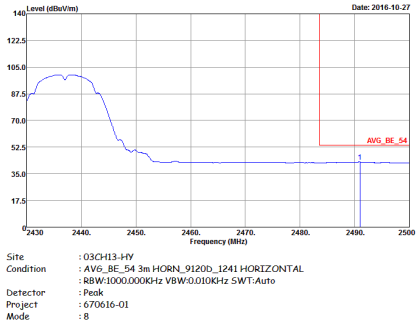
2.4GHz 2400~2483.5MHz

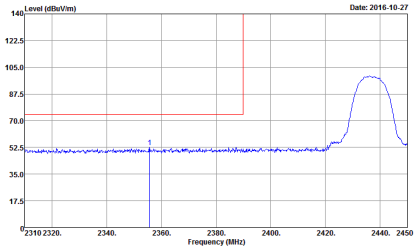
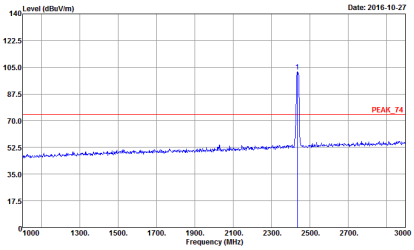
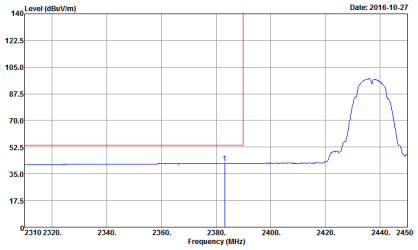
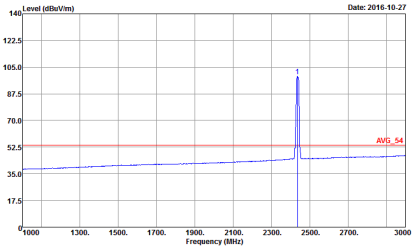
WIFI 802.11b (Band Edge @ 3m)

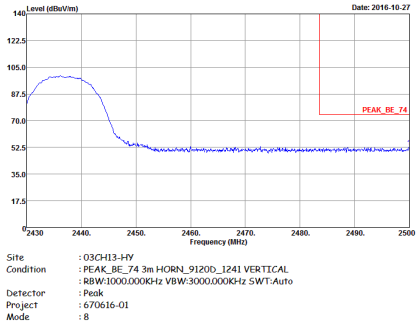
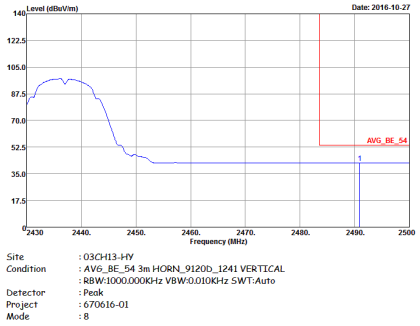
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

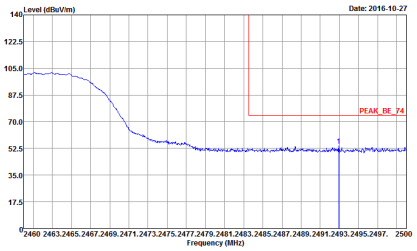
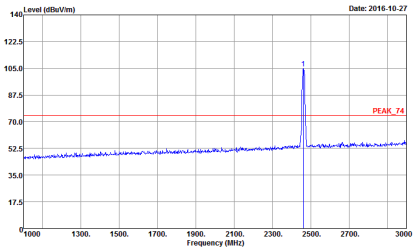
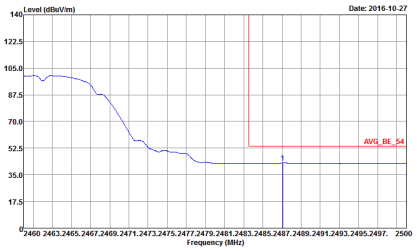
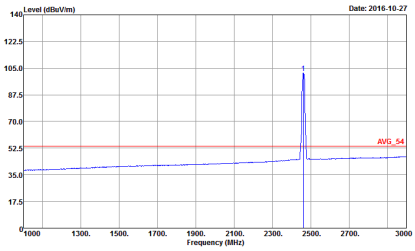
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 7	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 7
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 7	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 7

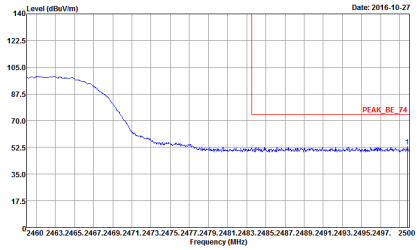
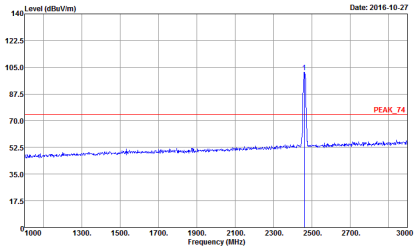
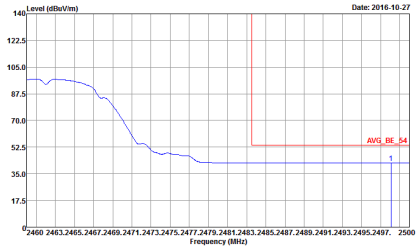
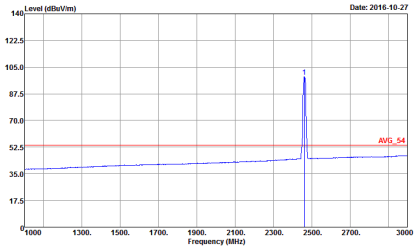
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 8	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 8
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 8	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 8

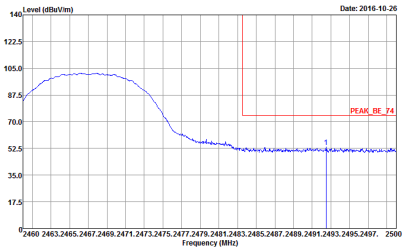
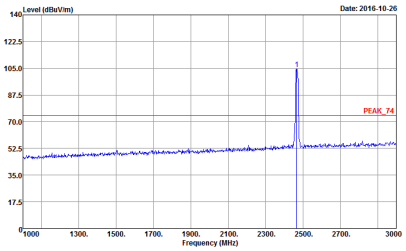
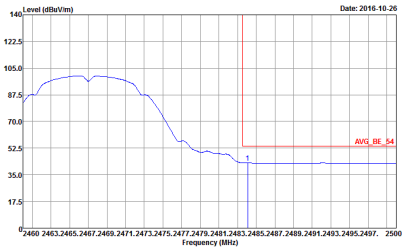
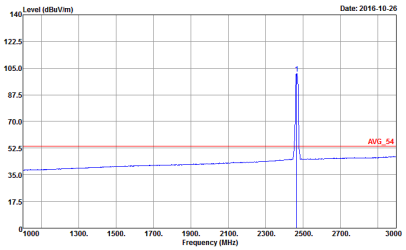
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

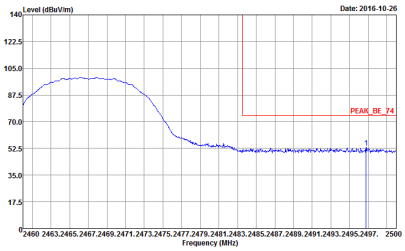
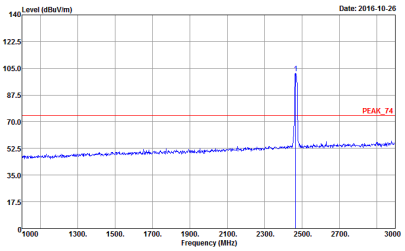
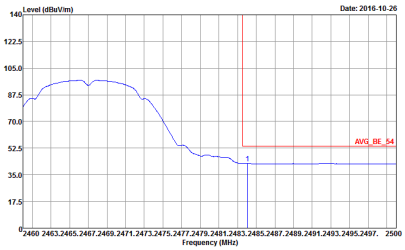
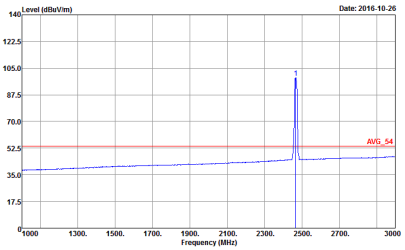
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 8	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 8
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 8	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 8

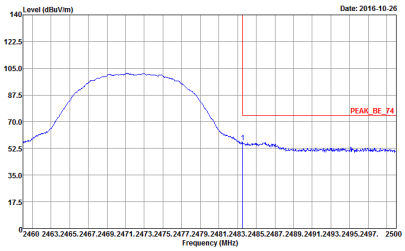
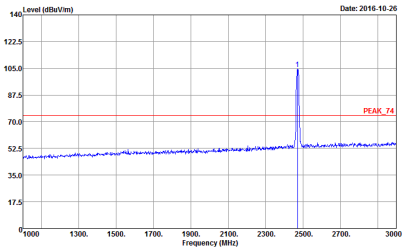
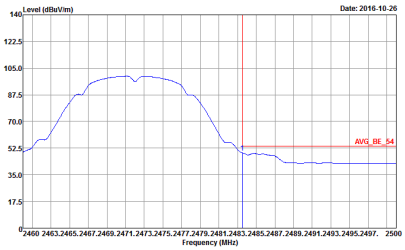
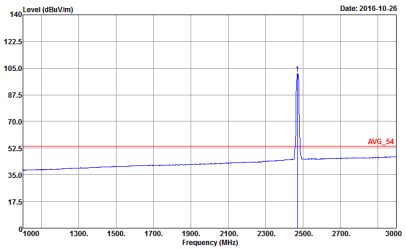
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

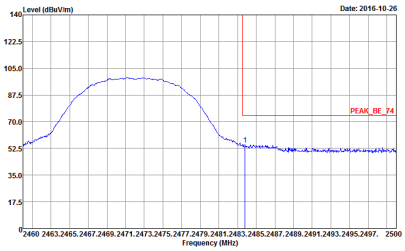
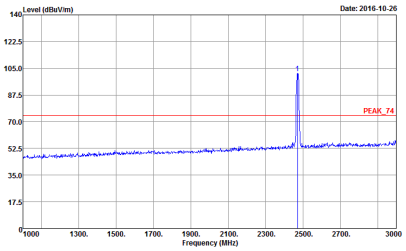
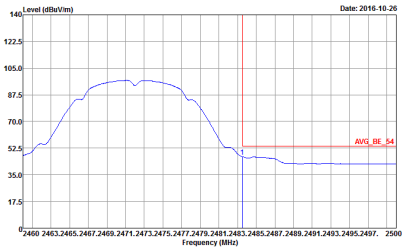
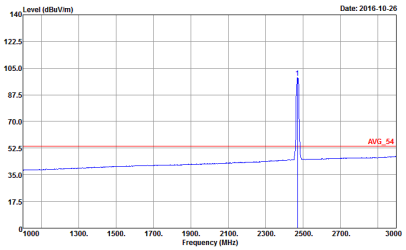
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 9	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 9
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 9	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 9

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 9	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 9
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 9	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 9

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 10	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 10
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 10	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 10

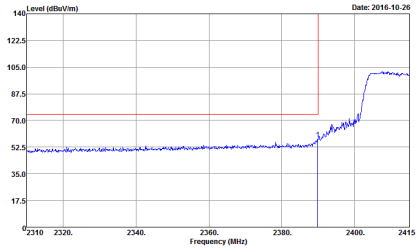
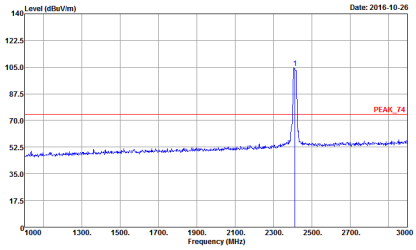
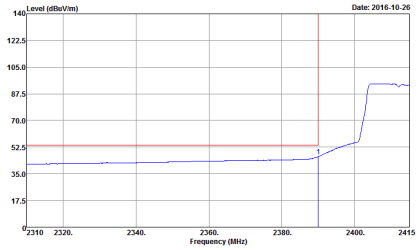
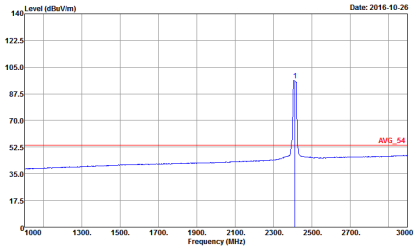
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 10	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 10
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 10	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 10

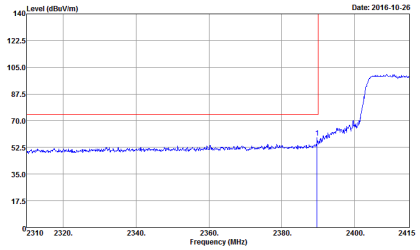
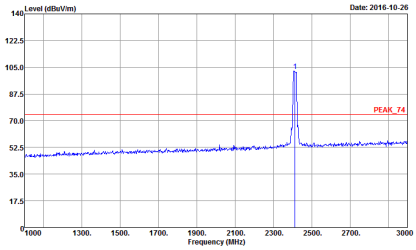
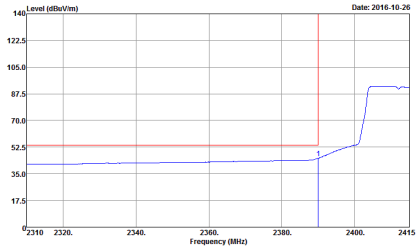
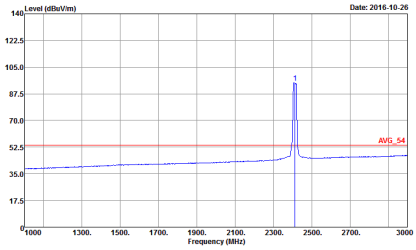
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 11	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 11
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 11	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 11

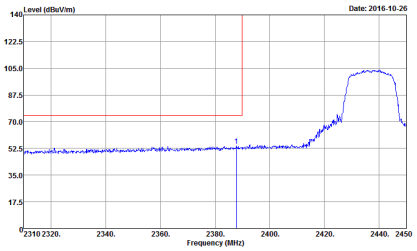
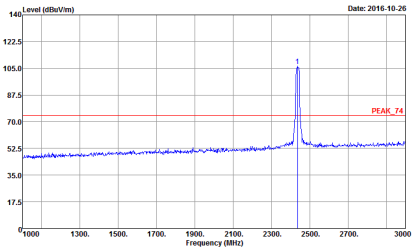
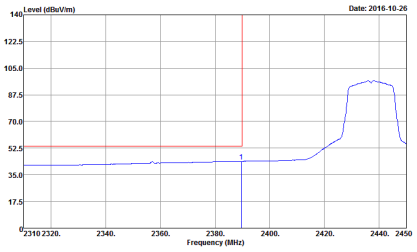
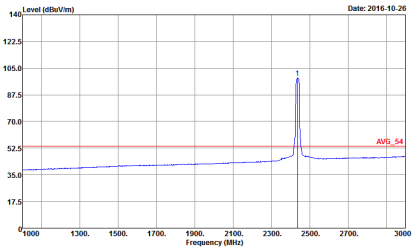
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 11	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 11
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 11	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 11

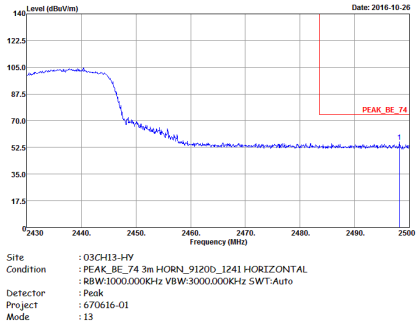
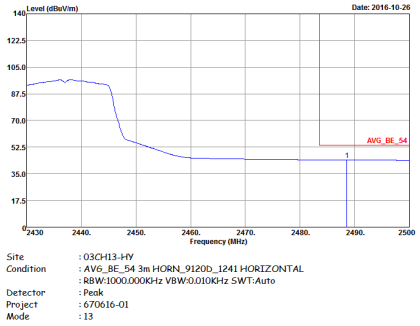
2.4GHz 2400~2483.5MHz

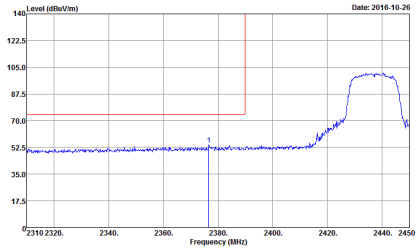
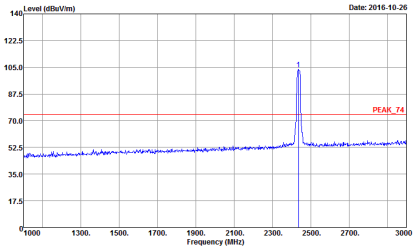
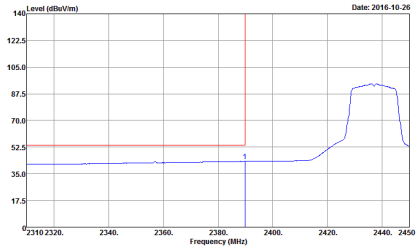
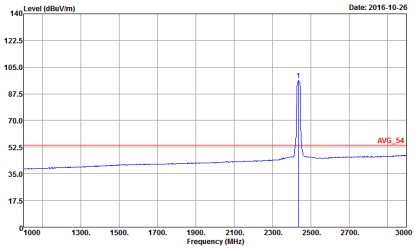
WIFI 802.11g (Band Edge @ 3m)

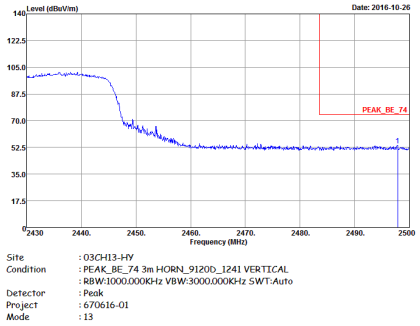
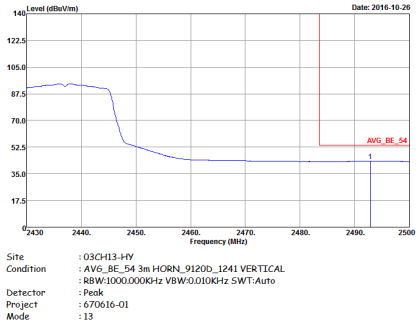
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 12	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 12
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 12	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 12

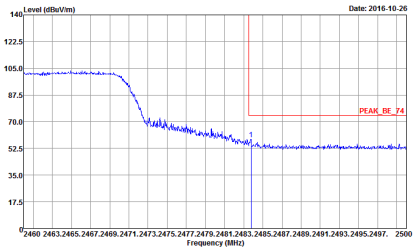
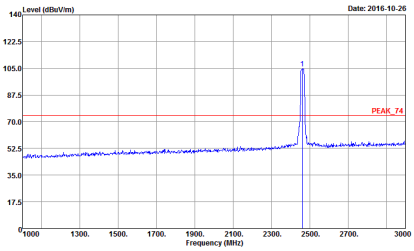
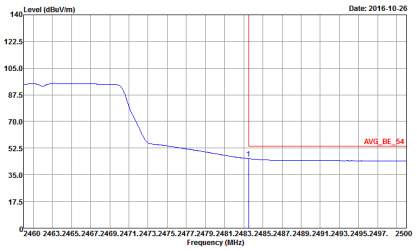
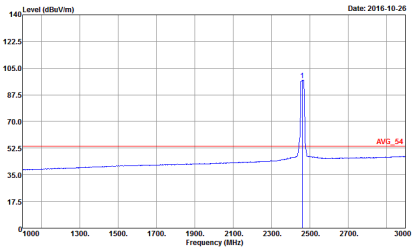
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 12	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 12
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 12	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 12

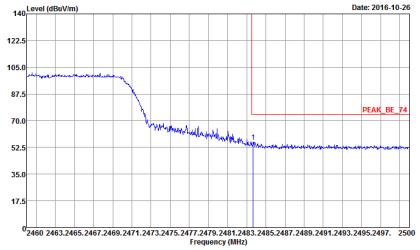
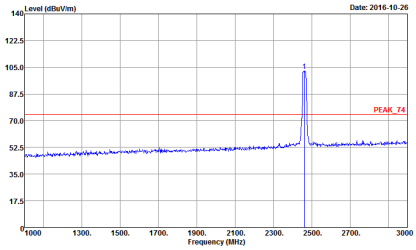
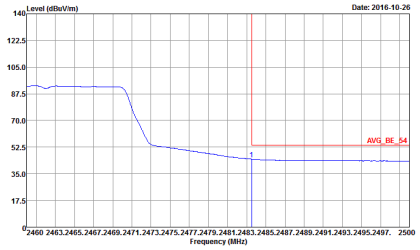
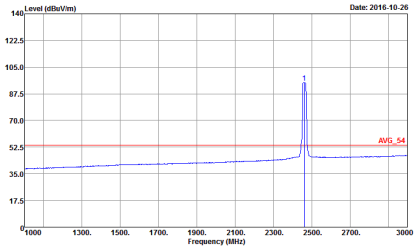
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 13	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 13
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 13	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 13

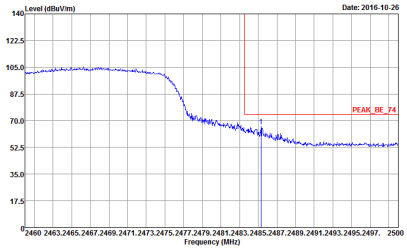
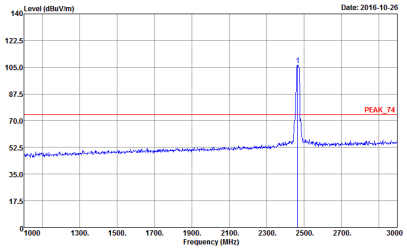
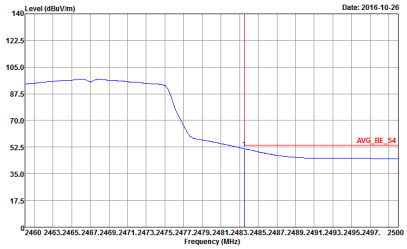
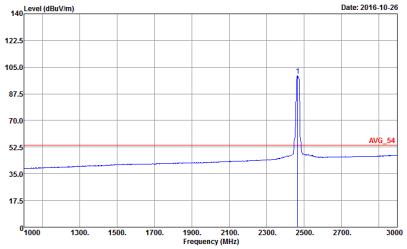
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

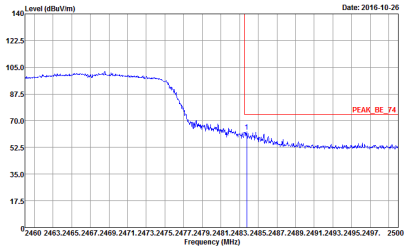
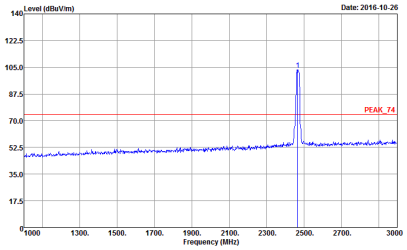
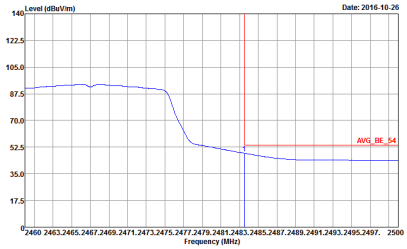
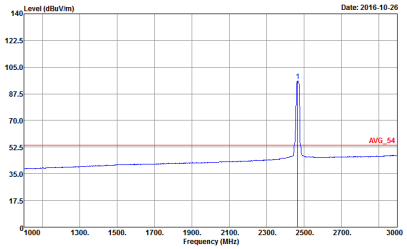
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 13	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 13
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 13	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 13

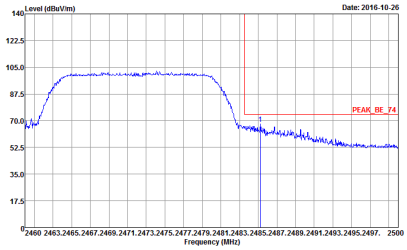
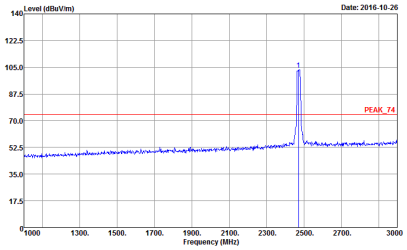
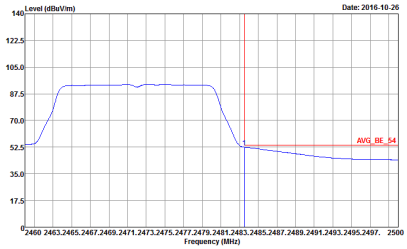
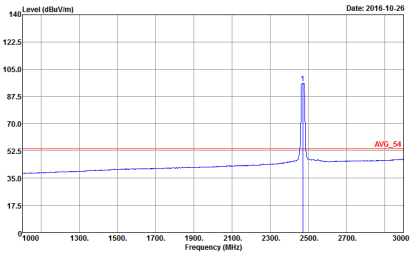
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

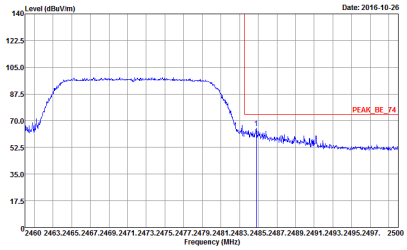
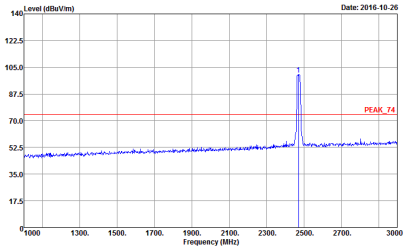
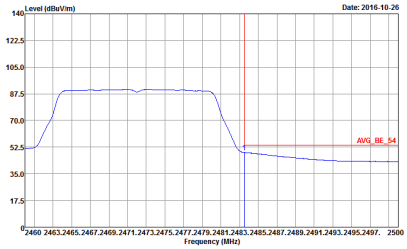
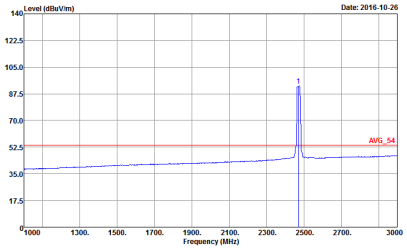
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 14	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 14
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 14	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 14

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 14	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 14
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 14	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 14

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 15	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 15
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 15	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 15

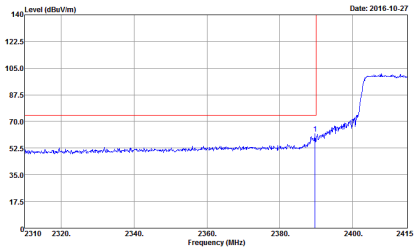
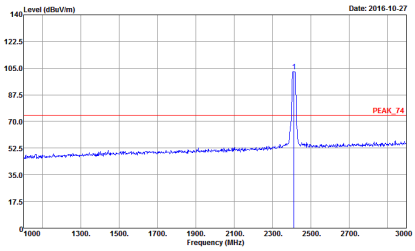
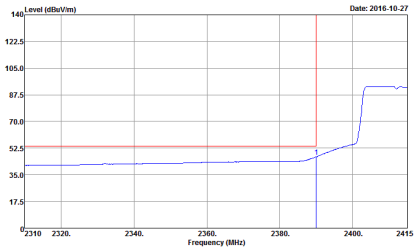
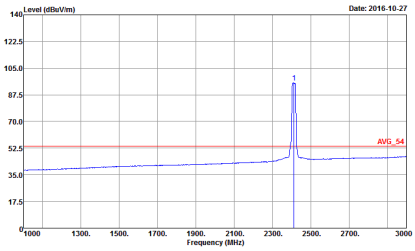
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 15	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 15
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 15	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 15

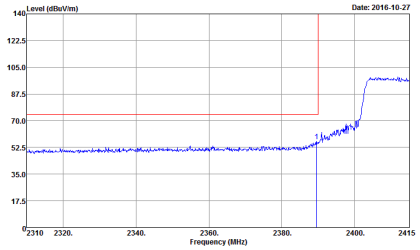
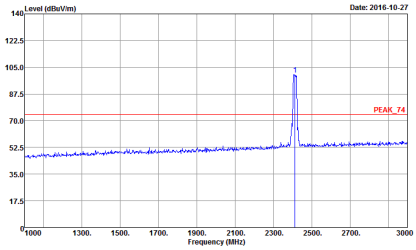
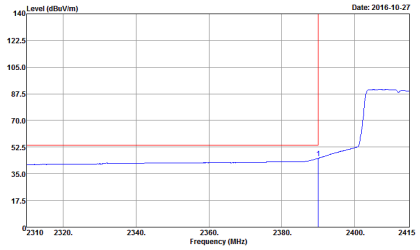
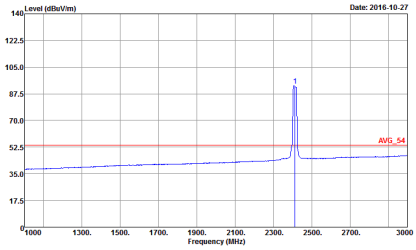
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 16 Power : 13.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 16 Power : 13.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 16 Power : 13.5	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 16 Power : 13.5

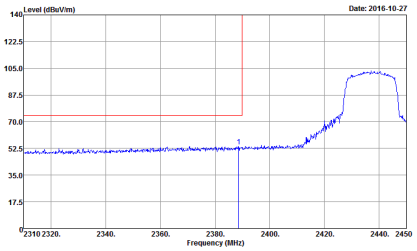
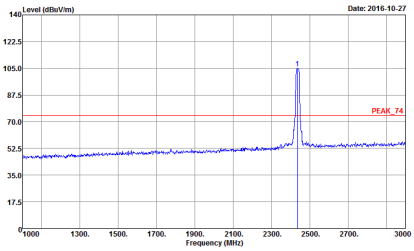
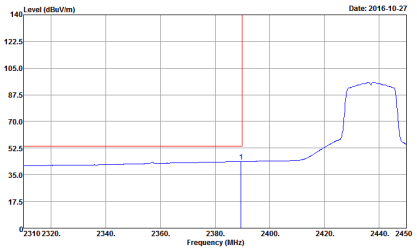
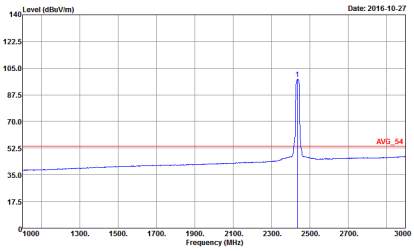
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 16 Power : 13.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 16 Power : 13.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 16 Power : 13.5	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 16 Power : 13.5

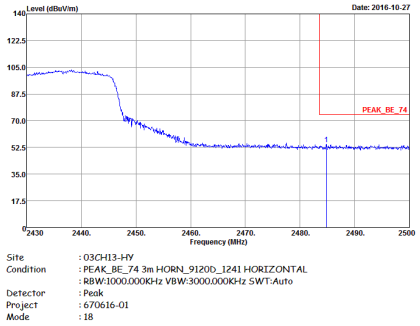
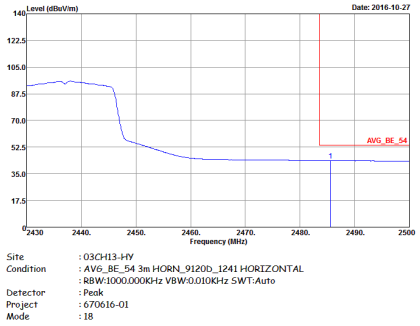
2.4GHz 2400~2483.5MHz

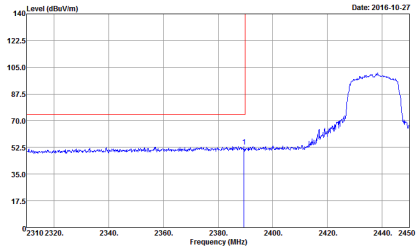
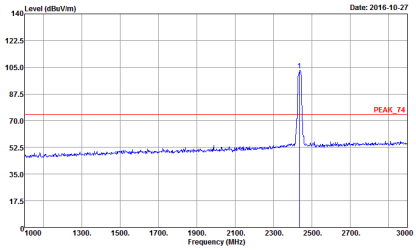
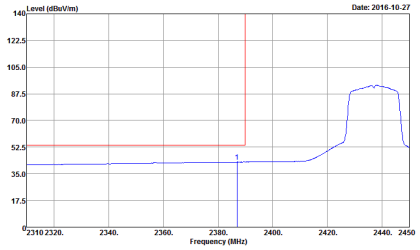
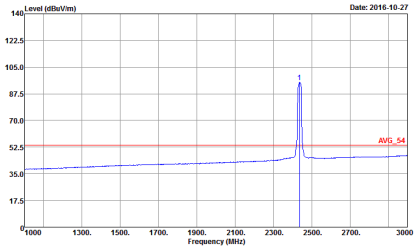
WIFI 802.11n HT20 (Band Edge @ 3m)

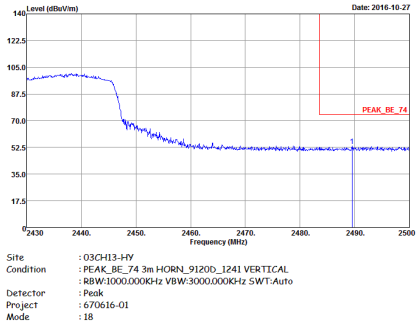
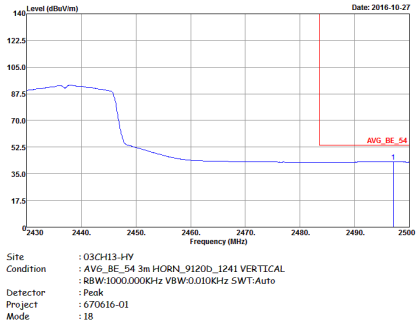
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 17	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 17

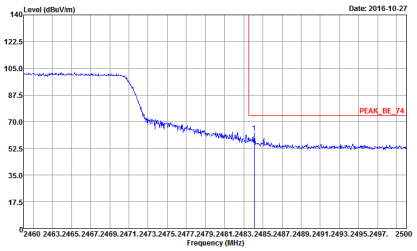
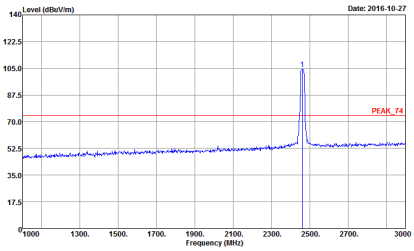
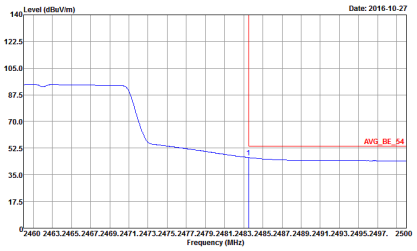
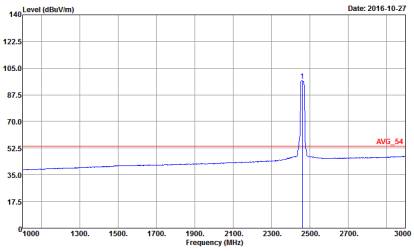
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 17	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 17

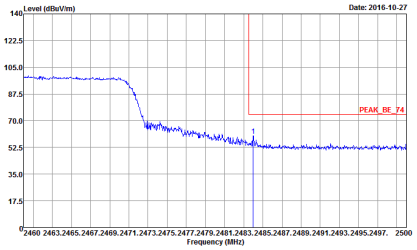
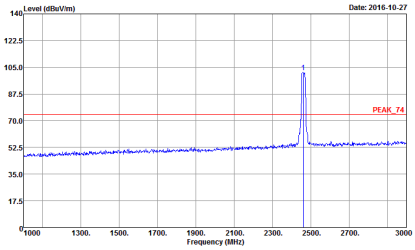
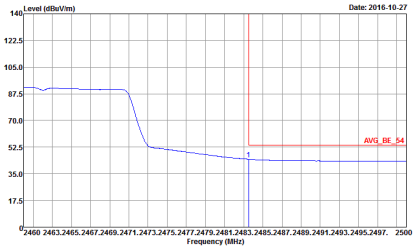
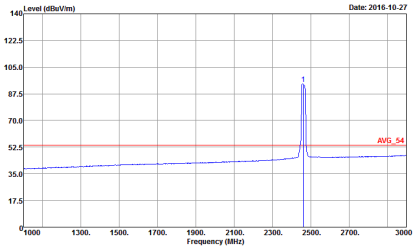
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 18	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 18
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 18	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 18

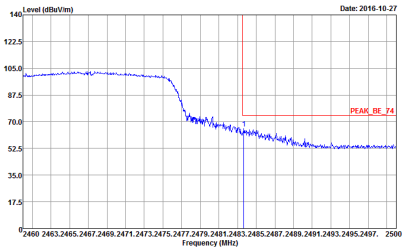
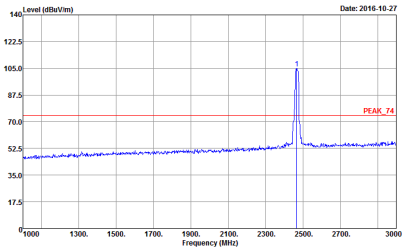
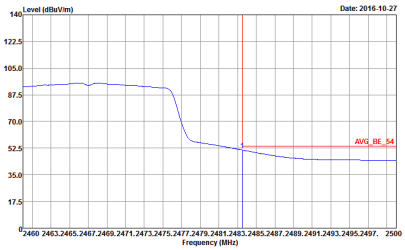
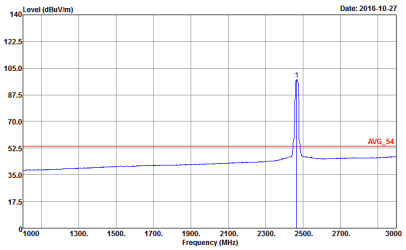
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

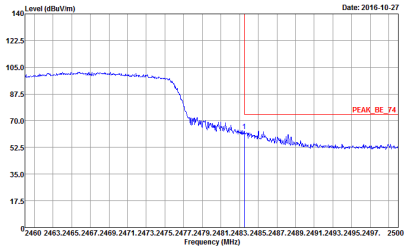
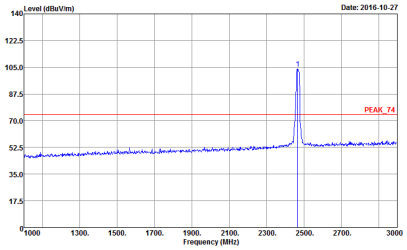
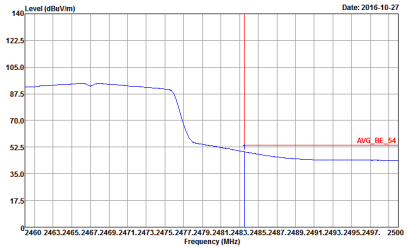
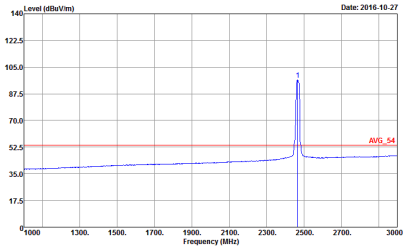
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 18	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 18
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 18	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 18

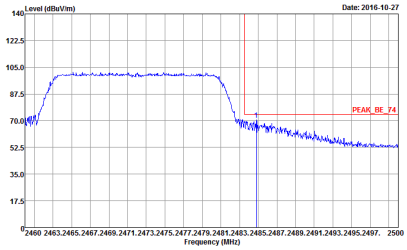
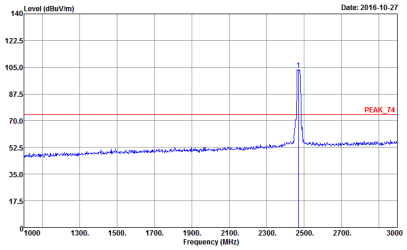
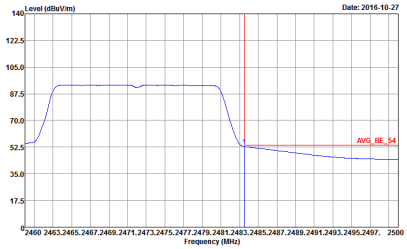
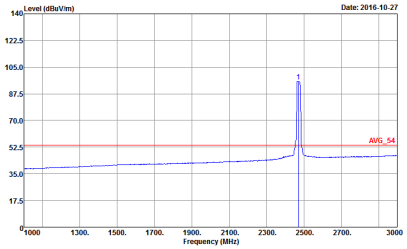
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

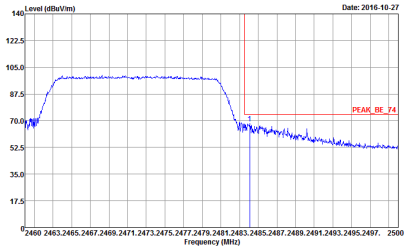
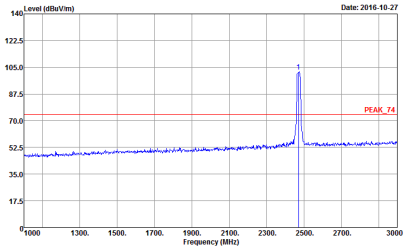
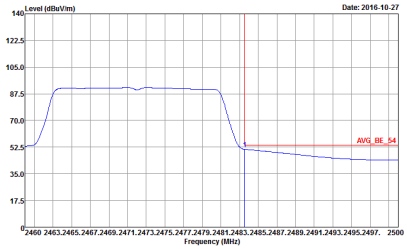
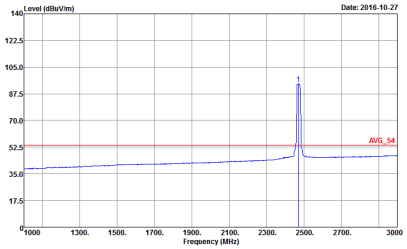
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 19	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 19
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 19	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 19

WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 19	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 19
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 19	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 19

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 20	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 20
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 20	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 20

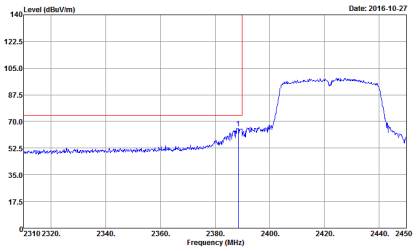
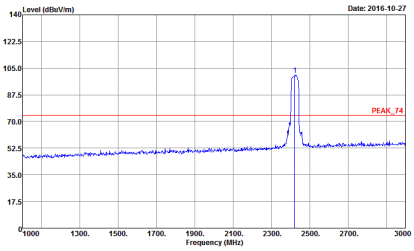
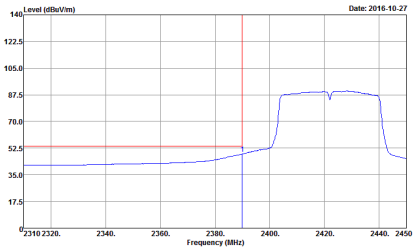
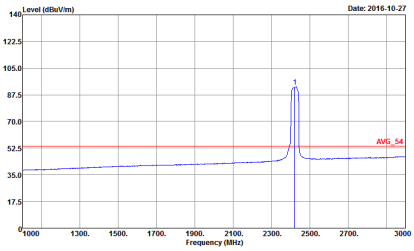
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 20	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 20
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 20	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 20

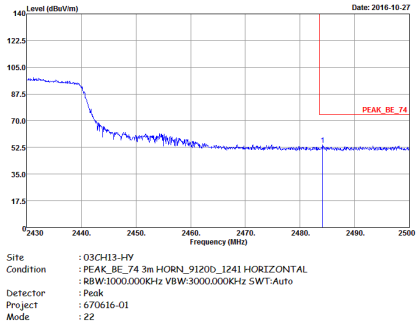
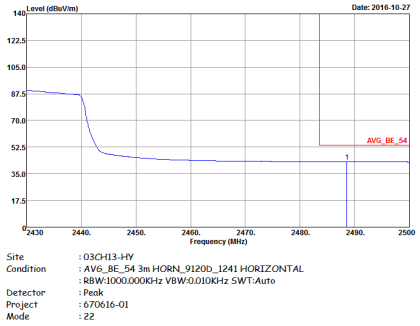
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 21 Power : 13.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 21 Power : 13.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 21 Power : 13.5	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 21 Power : 13.5

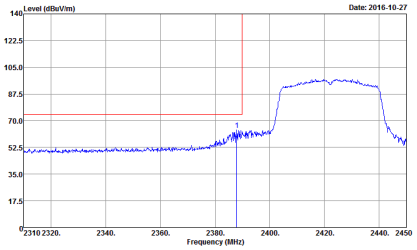
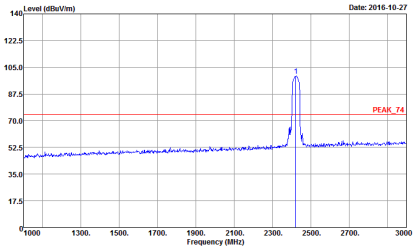
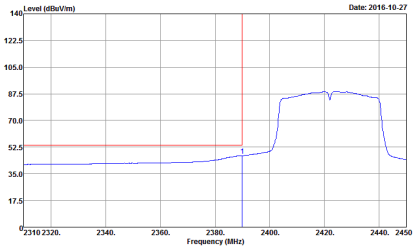
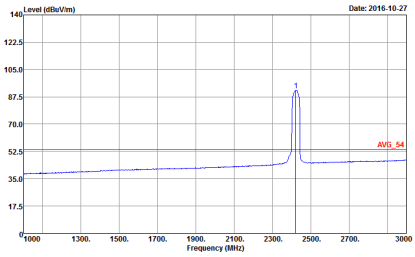
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 21 Power : 13.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 21 Power : 13.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 21 Power : 13.5	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 21 Power : 13.5

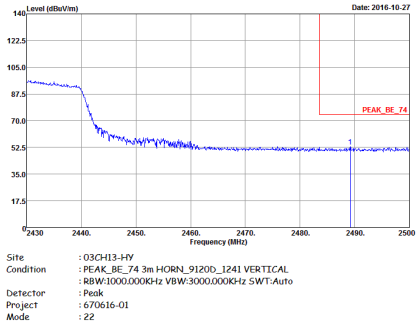
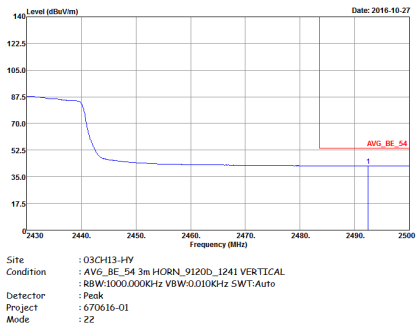
2.4GHz 2400~2483.5MHz

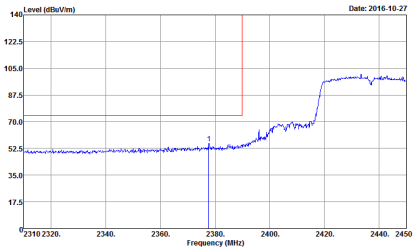
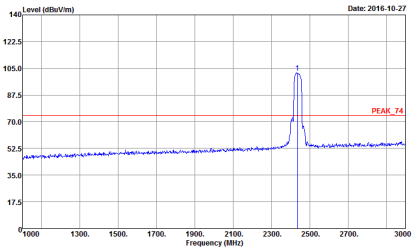
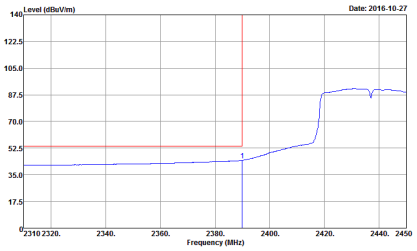
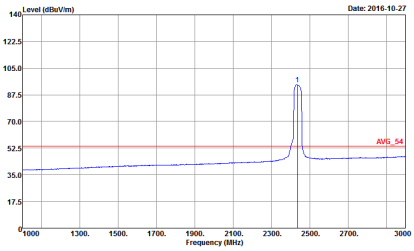
WIFI 802.11n HT40 (Band Edge @ 3m)

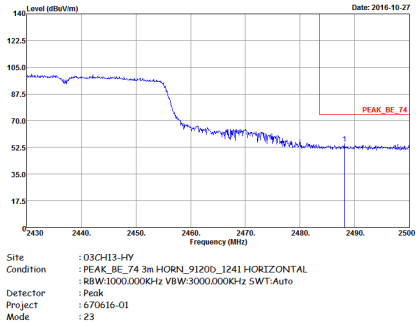
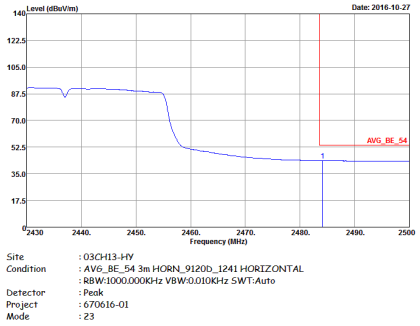
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 22	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 22
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 22	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 22

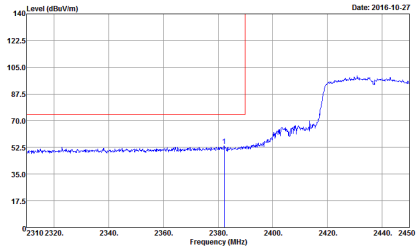
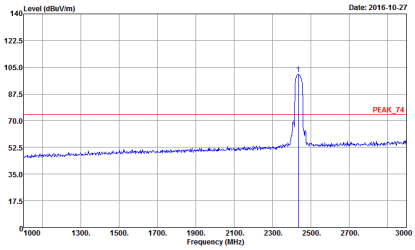
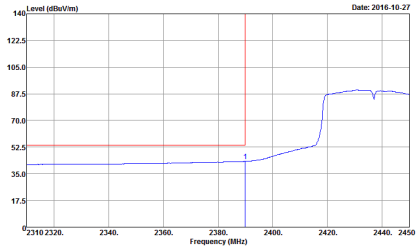
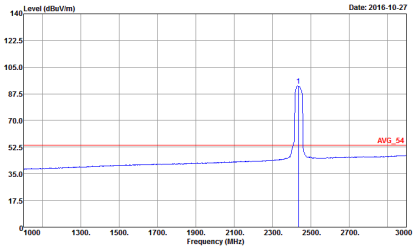
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
Peak		Left Blank
Avg.		Left Blank

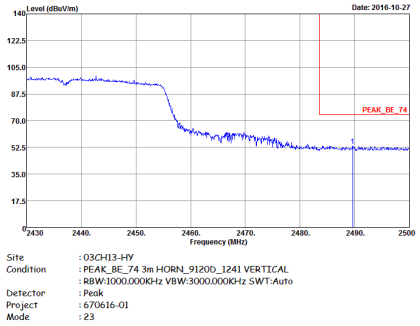
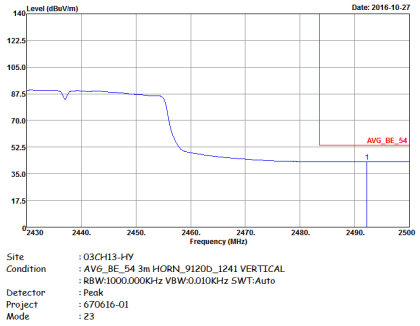
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 22	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 22
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 22	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 22

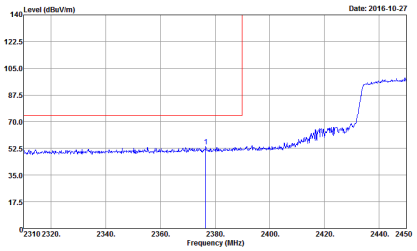
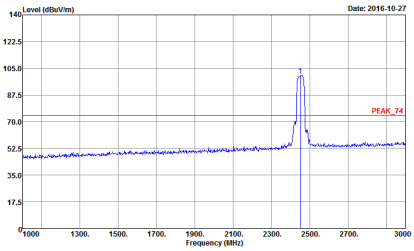
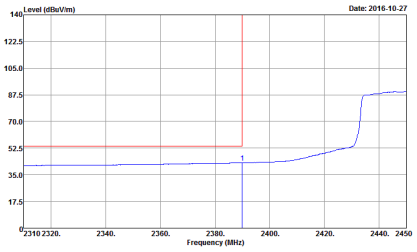
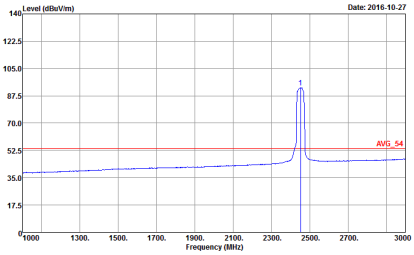
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

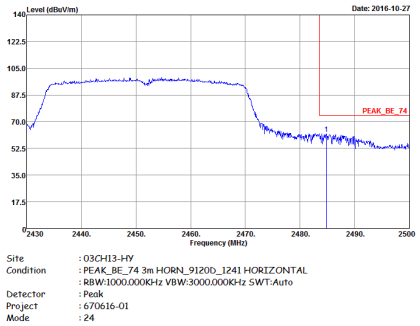
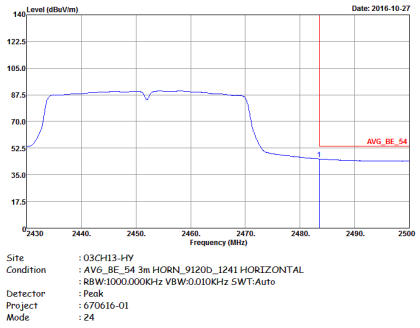
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 23	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 23
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 23	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 23

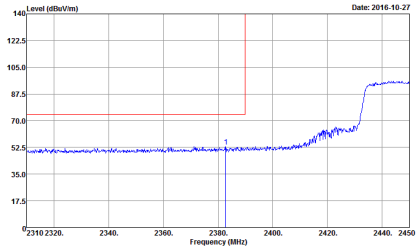
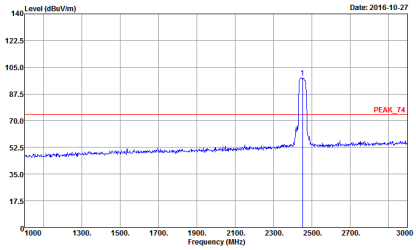
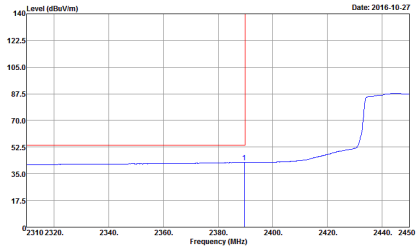
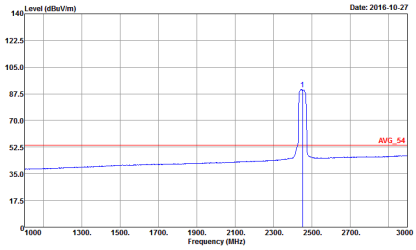
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

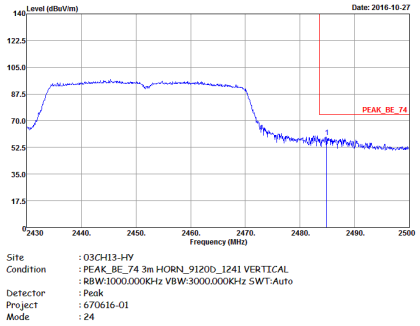
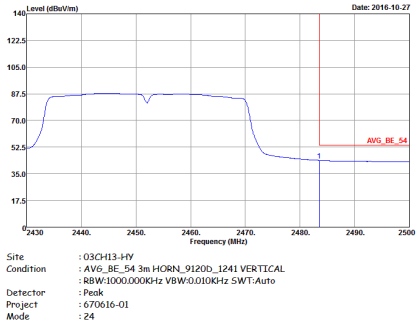
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 23	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 23
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 23	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 23

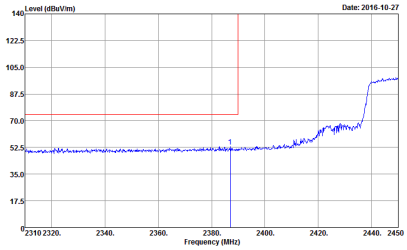
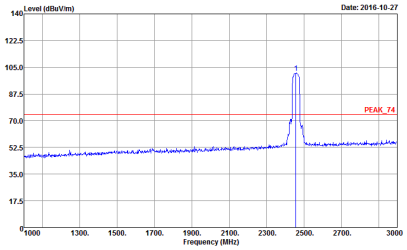
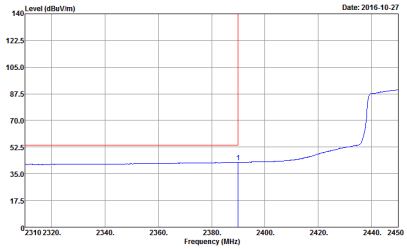
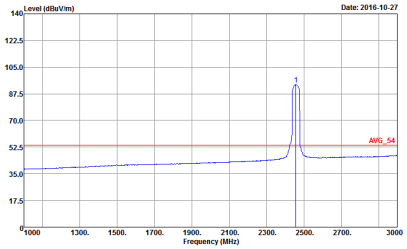
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

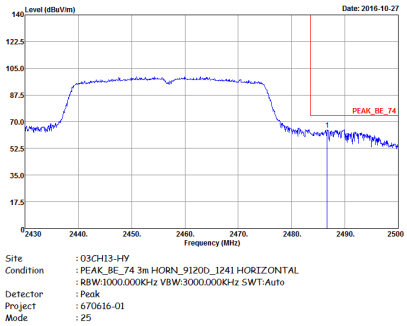
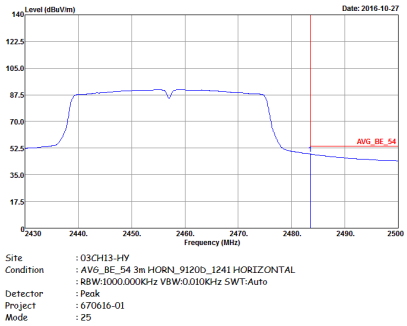
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 24	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 24
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 24	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 24

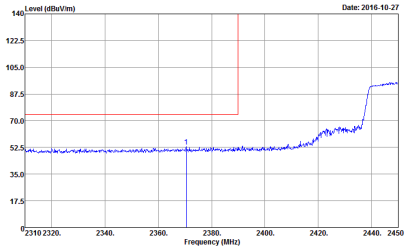
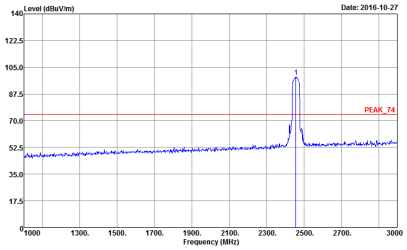
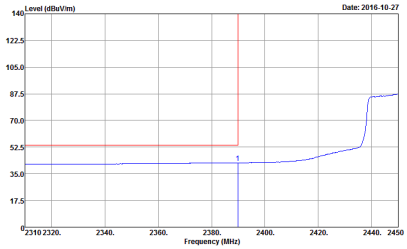
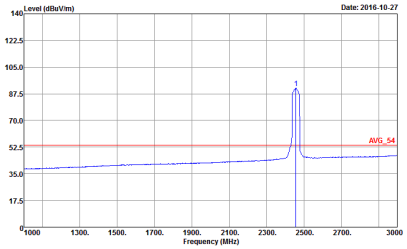
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

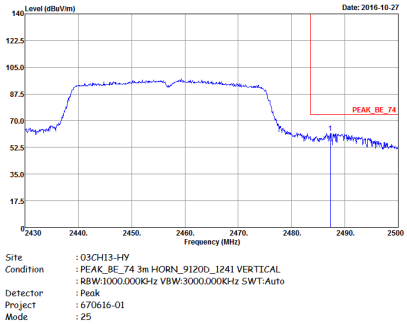
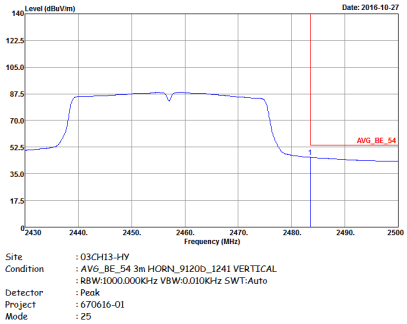
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 24	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 24
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 24	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 24

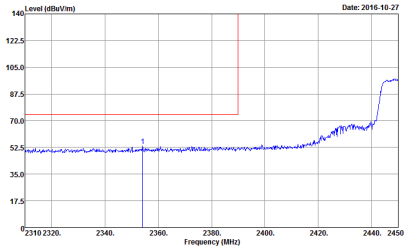
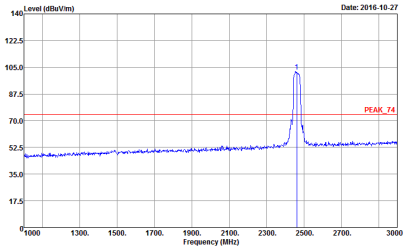
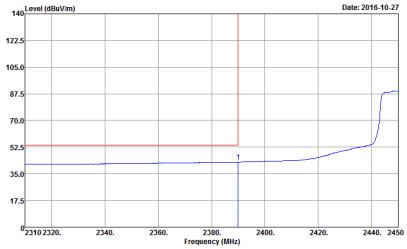
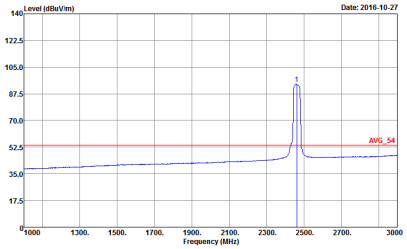
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

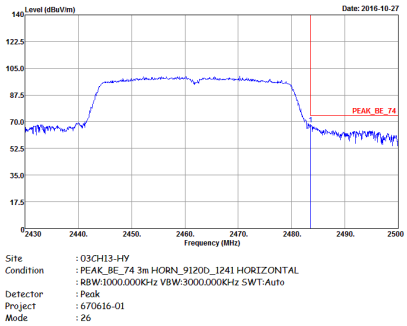
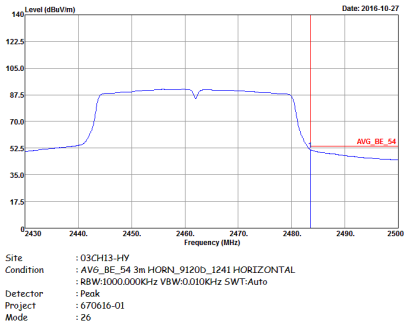
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH10 2457MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 25	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 25	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 25

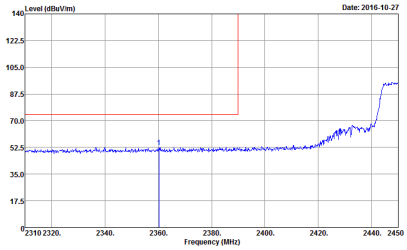
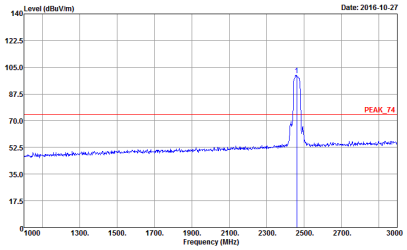
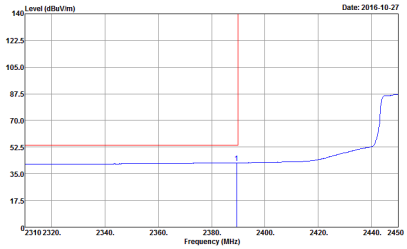
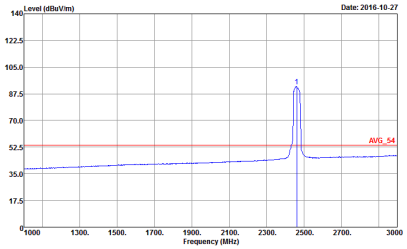
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH10 2457MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

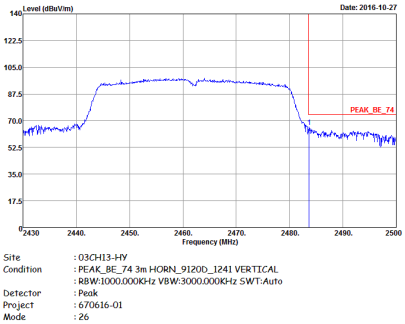
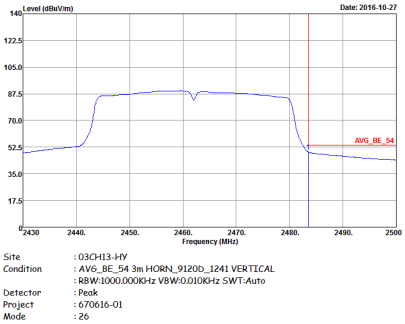
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH10 2457MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 25	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 25	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 25

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH10 2457MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH11 2462MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 26	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 26
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 26	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 26

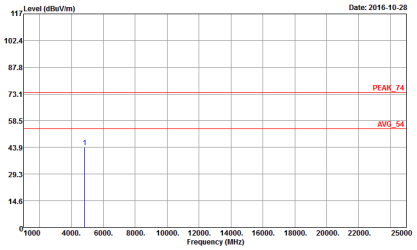
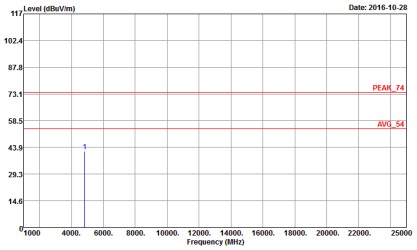
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH11 2462MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

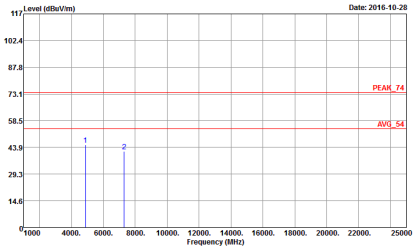
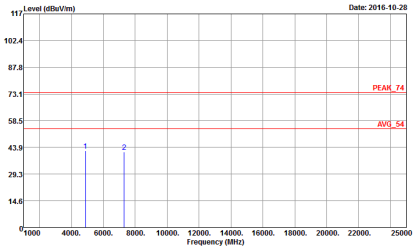
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH11 2462MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 26	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 26
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 26	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 26

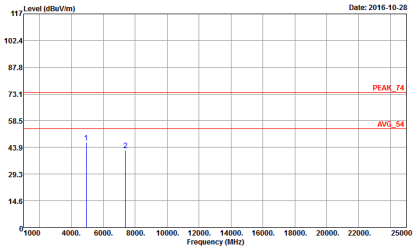
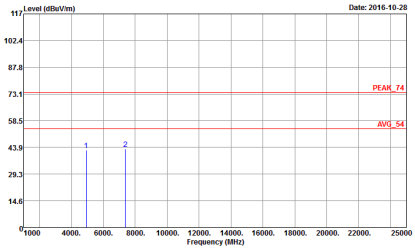
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH11 2462MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

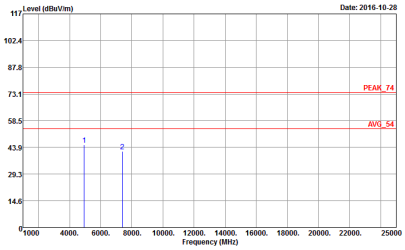
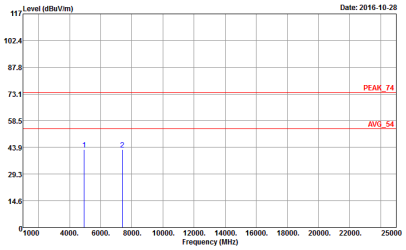
2.4GHz 2400~2483.5MHz

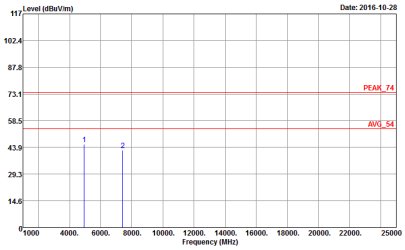
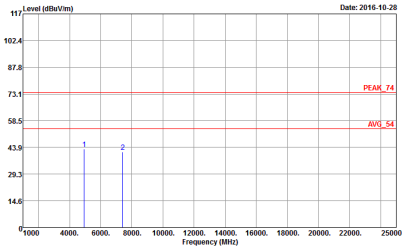
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-02 Mode : 8	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-02 Mode : 8

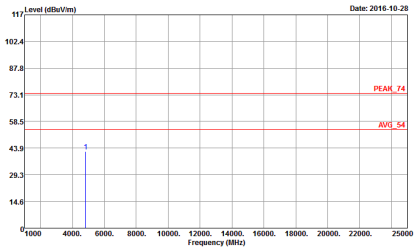
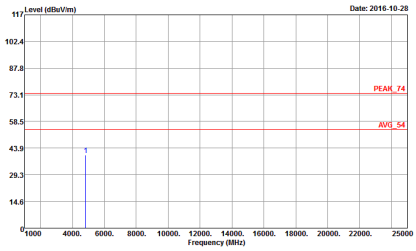
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-02 Mode : 9	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-02 Mode : 9

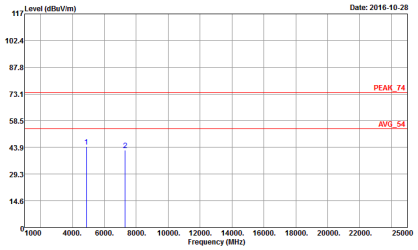
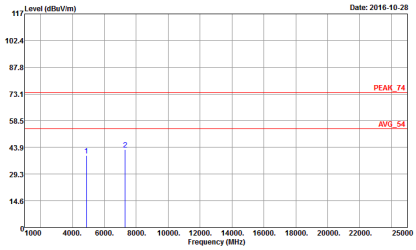
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH12 2467MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-02 Mode : 10	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-02 Mode : 10

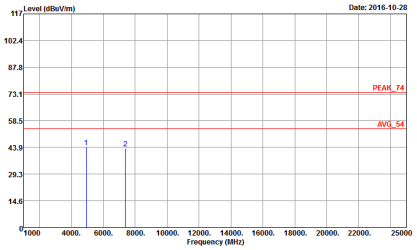
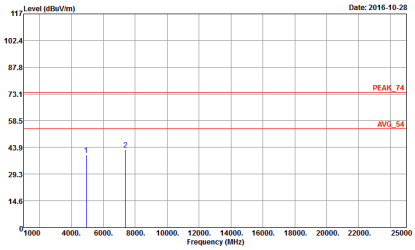
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH13 2472MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-02 Mode : 11	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-02 Mode : 11

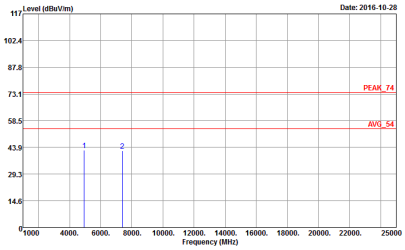
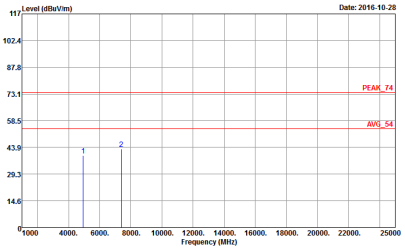
2.4GHz 2400~2483.5MHz

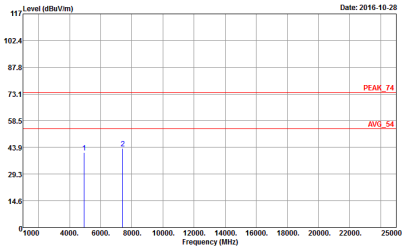
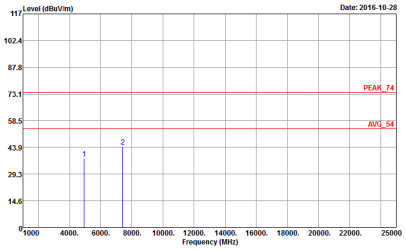
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-02 Mode : 12	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-02 Mode : 12

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-02 Mode : 13	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-02 Mode : 13

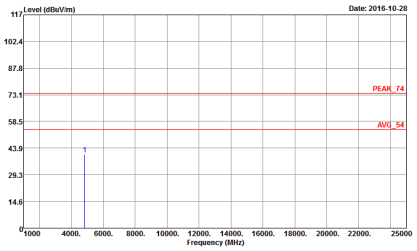
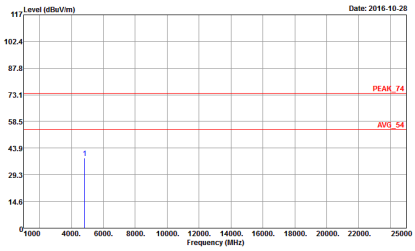
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-02 Mode : 14	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-02 Mode : 14

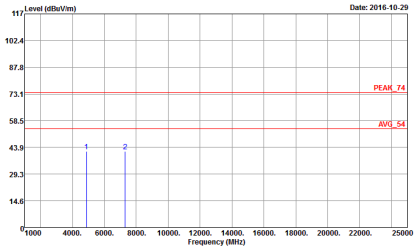
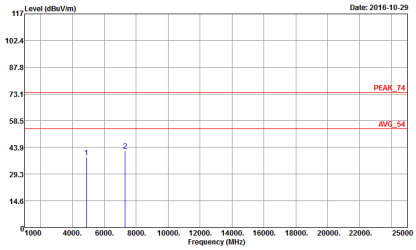
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH12 2467MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-02 Mode : 15	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-02 Mode : 15

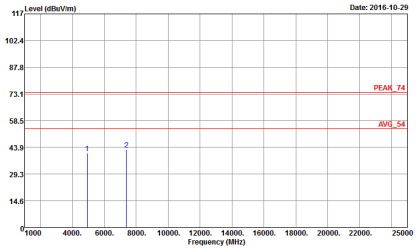
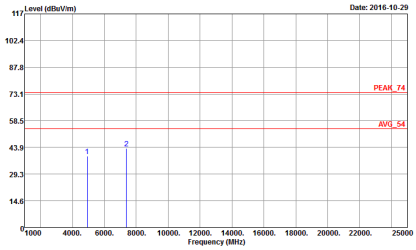
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH13 2472MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-02 Mode : 16	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-02 Mode : 16

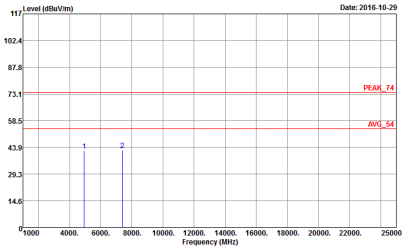
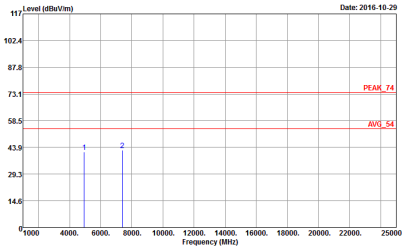
2.4GHz 2400~2483.5MHz

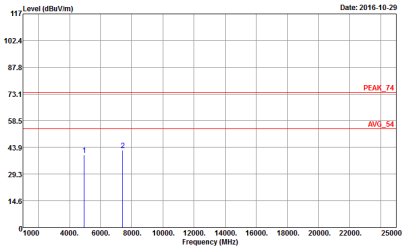
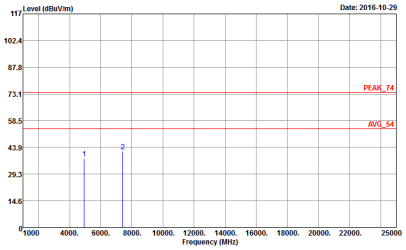
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-02 Mode : 18	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-02 Mode : 18

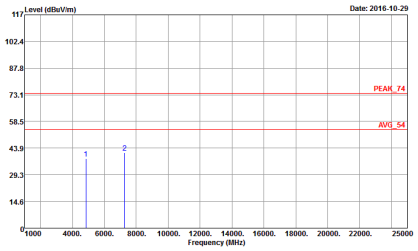
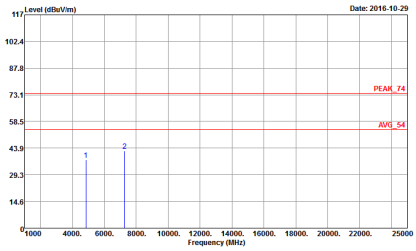
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 670616-01 Mode : 19	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 670616-01 Mode : 19

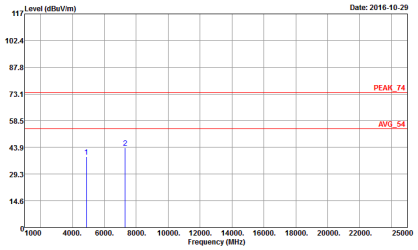
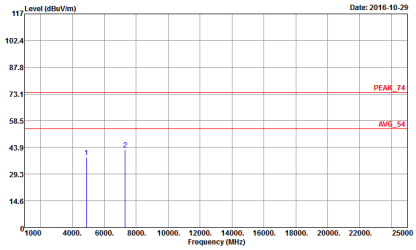
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 631725-02 Mode : 20	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 631725-02 Mode : 20

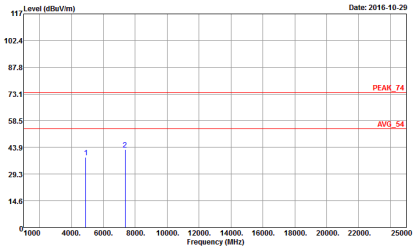
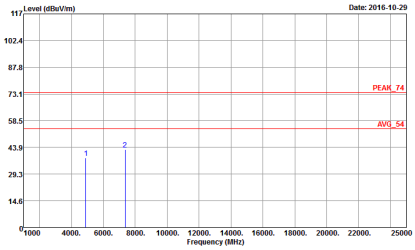
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 670616-01 Mode : 21	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 670616-01 Mode : 21

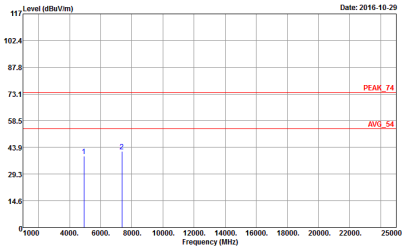
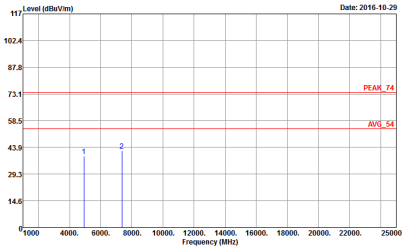
2.4GHz 2400~2483.5MHz

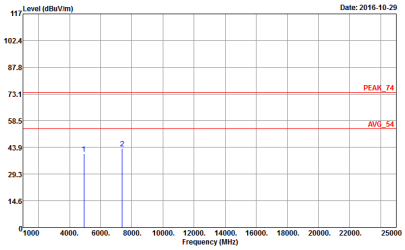
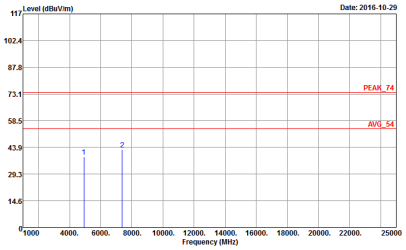
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 670616-01 Mode : 23	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 670616-01 Mode : 23

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 670616-01 Mode : 24	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 670616-01 Mode : 24

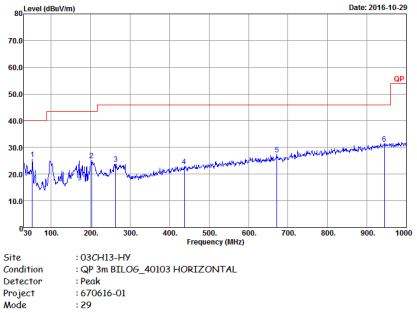
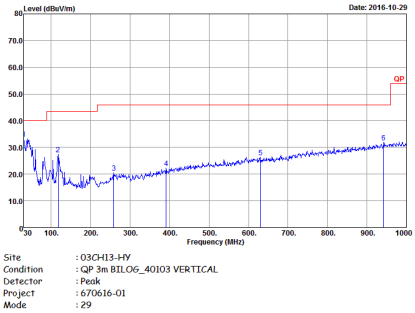
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH10 2457MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 670616-01 Mode : 25	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 670616-01 Mode : 25

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 670616-01 Mode : 26	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 670616-01 Mode : 26

Emission below 1GHz

2.4GHz 2400~2483.5MHz

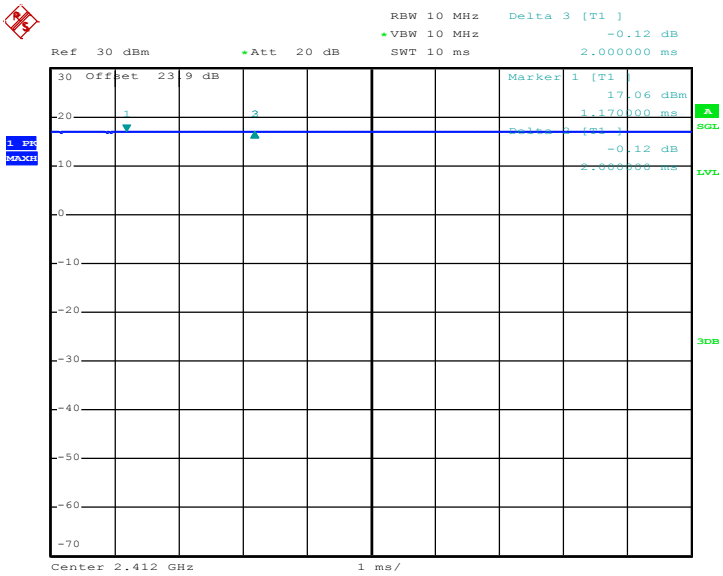
2.4GHz WIFI 802.11n HT20 (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT20 LF	
1	Horizontal	Vertical
QP / Peak		

Appendix C. Duty Cycle Plots

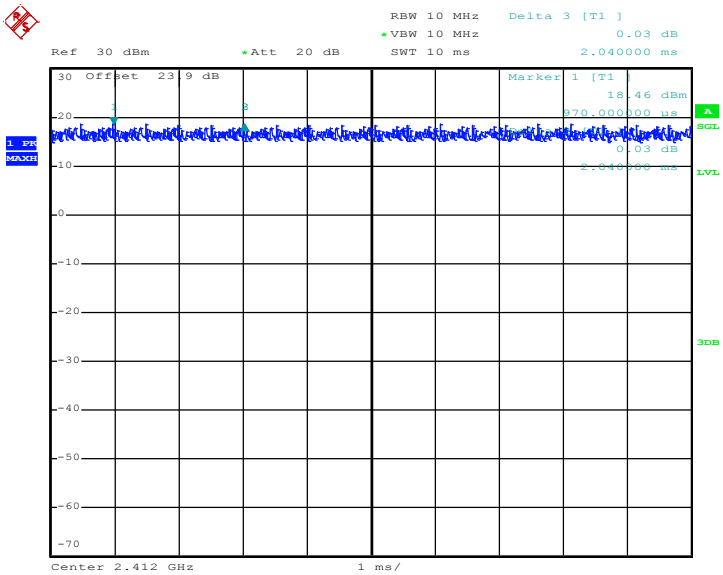
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11b	100	-	-	10Hz
802.11b	100	-	-	
2.4GHz 802.11n HT20	100	-	-	
2.4GHz 802.11n HT40	100	-	-	

802.11b



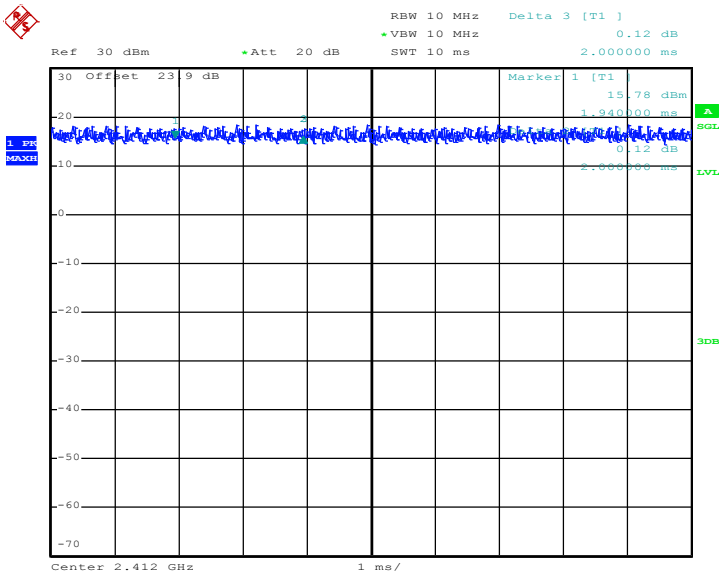
Date: 24.OCT.2016 22:24:38

802.11g



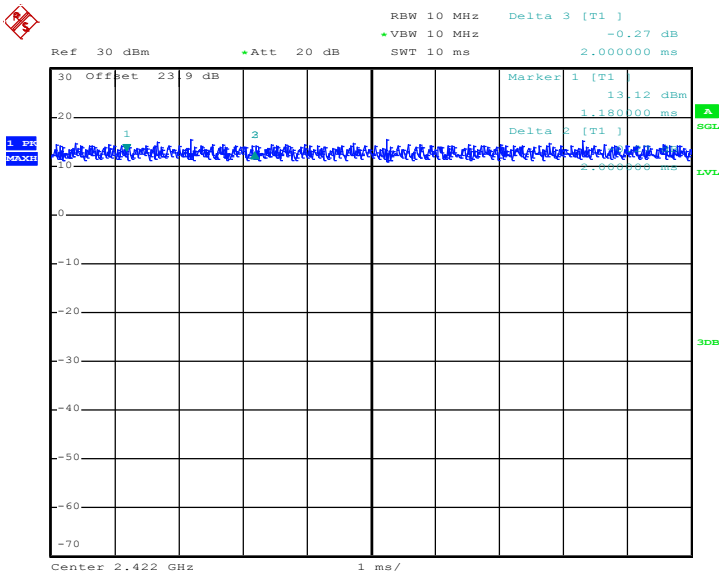
Date: 24.OCT.2016 22:33:59

802.11n HT20



Date: 24.OCT.2016 22:42:48

802.11n HT40



Date: 24.OCT.2016 22:51:47