FCC RF Test Report

APPLICANT	**:**	**HTC Corporation**
EQUIPMENT	**:**	**VIVE Headset**
MODEL NAME	**:**	**2Q27200**
FCC ID	**:**	**NM82Q27200**
STANDARD	**:**	**FCC Part 15 Subpart C §15.247**
CLASSIFICATION	**:**	**(DTS) Digital Transmission System**

The product was received on Feb. 12, 2018 and testing was completed on Apr. 04, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR821216C	Rev. 01	Initial issue of report	Apr. 12, 2018
FR821216C	Rev. 02	Revising applicant address and manufacturer address	Apr. 13, 2018

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
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	Under limit 1.06 dB at 2383.920 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 12.83 dB at 1.536 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

HTC Corporation
NO. 88, Section 3, Zhongxing Rd., Xindian Dist, New Taipei City, Taiwan 231

1.2 Manufacturer

HTC Corporation
NO. 88, Section 3, Zhongxing Rd., Xindian Dist, New Taipei City, Taiwan 231

1.3 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, and Wi-Fi 5GHz 802.11a/n/ac

Product Specification subjective to this standard	
Antenna Type	WLAN: Dipole Antenna Bluetooth: Dipole Antenna

1.4 Modification of EUT

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

1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	**Sporton Site No.**	
	TH02-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. Kwei-Shan District, Taoyuan City, Taiwan, R.O.C. TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH16-HY

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

1.6 Applicable Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane for Ant. 1 and Ant. 1+2, Y plane for Ant. 2) were recorded in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Single Antenna

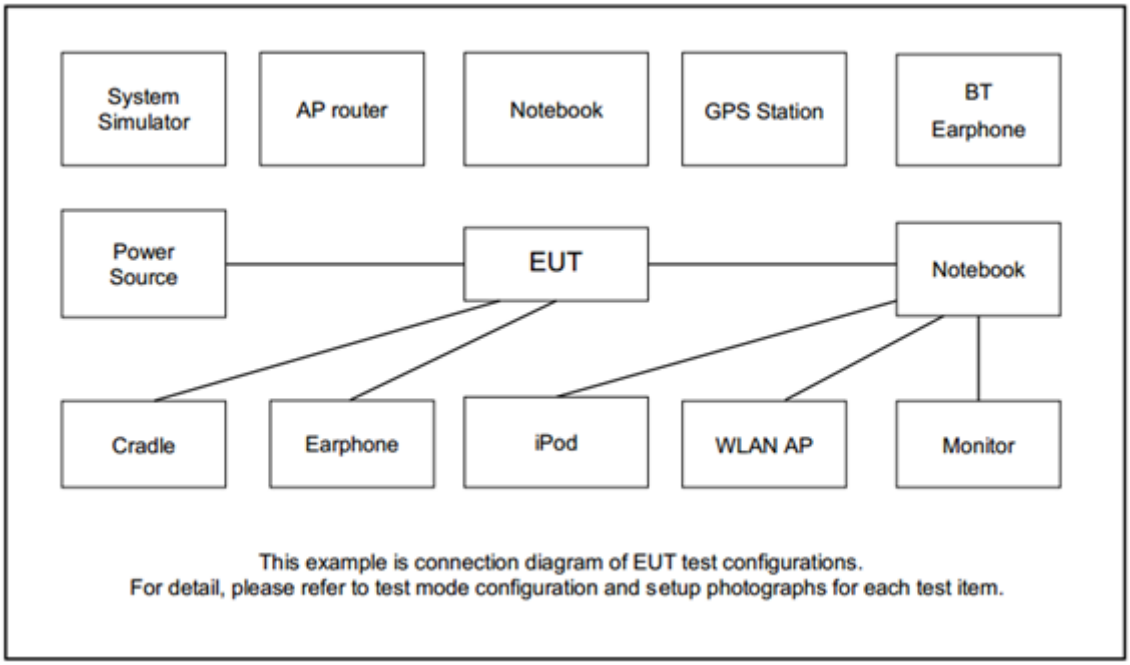
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps

MIMO Antenna

Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	iPod Earphone	Aibo	IP-E1	N/A	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
3.	Notebook	Dell	Latitude E6320	FCC DoC	N/A	AC I/P：Unshielded, 1.2m DC O/P：Shielded, 1.8m
4.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

The EUT was set to connect with the WLAN AP under large package sizes transmission.

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.

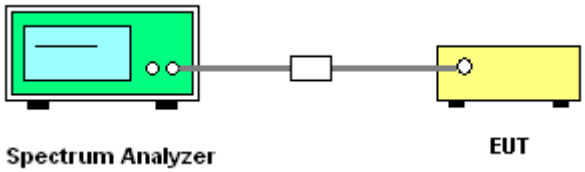
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

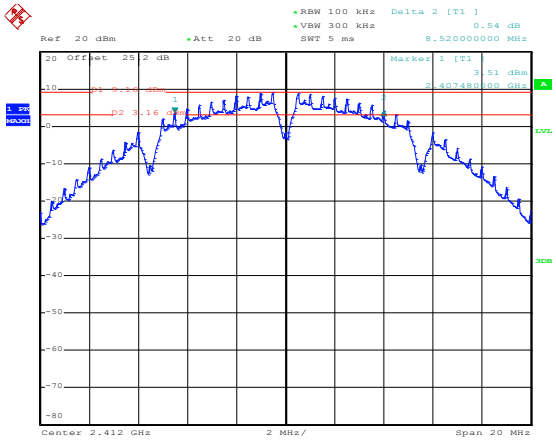
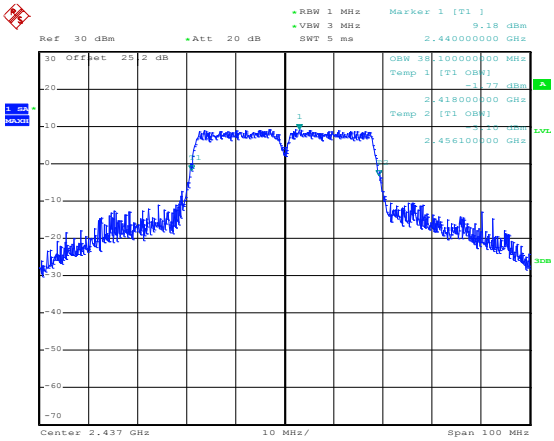
1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit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

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

Minimum 6dB Bandwidth	Maximum 99% Occupied Bandwidth
	

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 with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

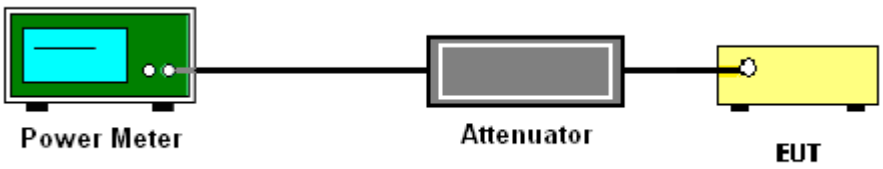
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04 section 9.1.3 PKPM1 Peak power meter method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

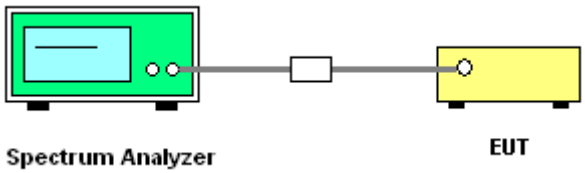
   If measurements performed using method (2) plus 10 log (N) exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

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

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

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

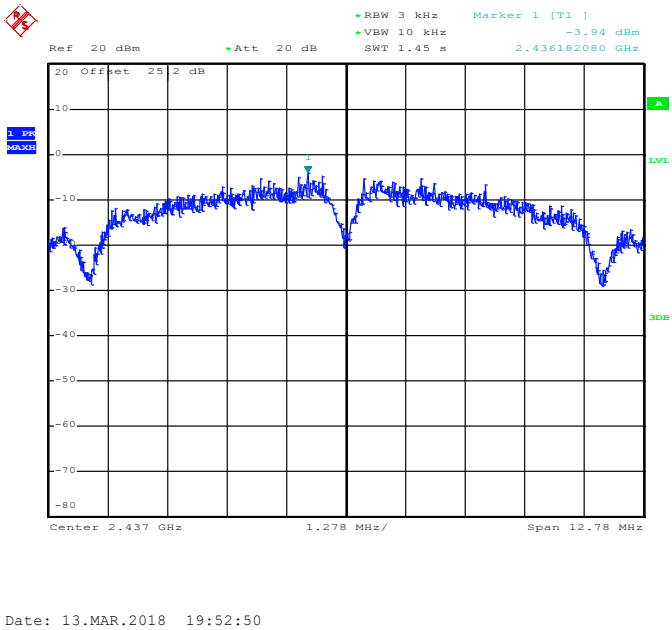
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/3kHz) for Ant. 1



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

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

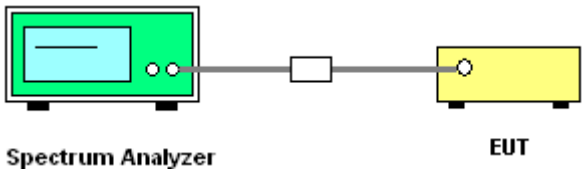
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



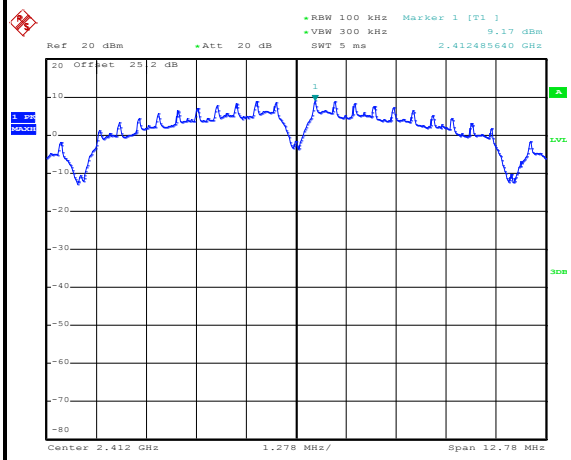
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Lena Lo, Kai Liao, and Luffy Lin	**Temperature :**	21~25℃
		Relative Humidity :	51~54%

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

Test Mode :	802.11b	**Test Channel :**	01

100kHz PSD reference Level



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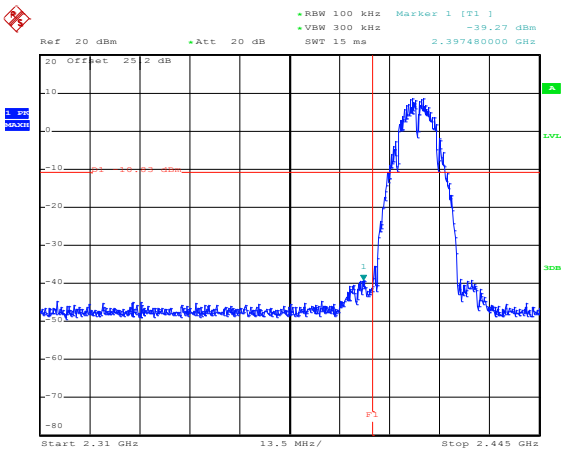
Channel Plot



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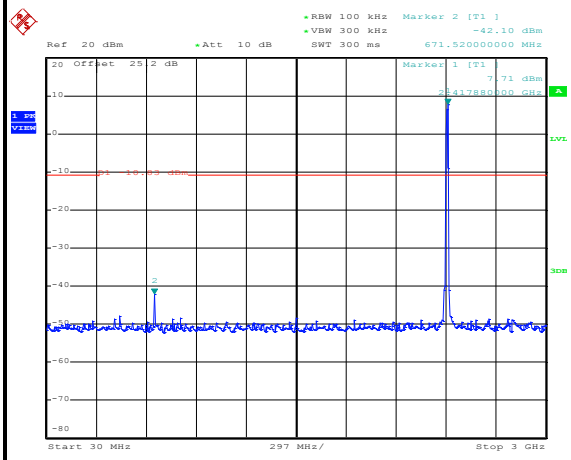
Spurious Emission 30MHz~3GHz



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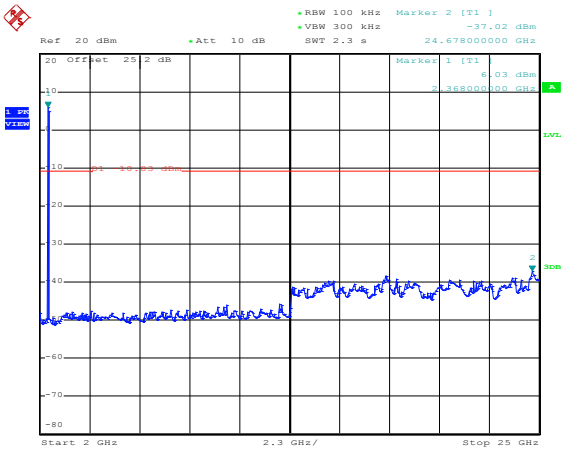
Spurious Emission 2GHz~25GHz



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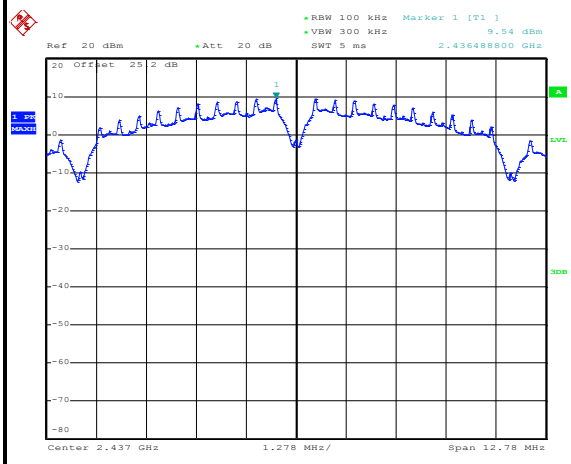
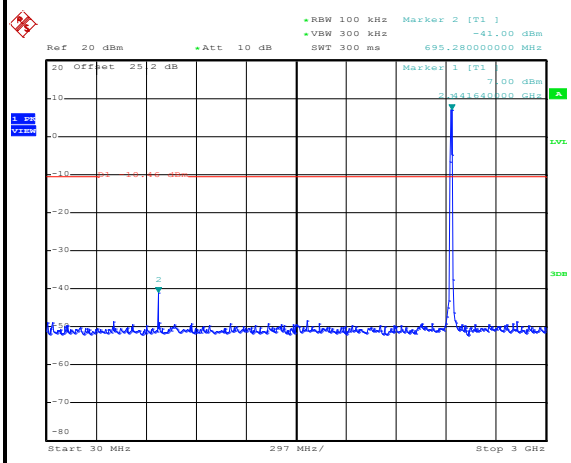
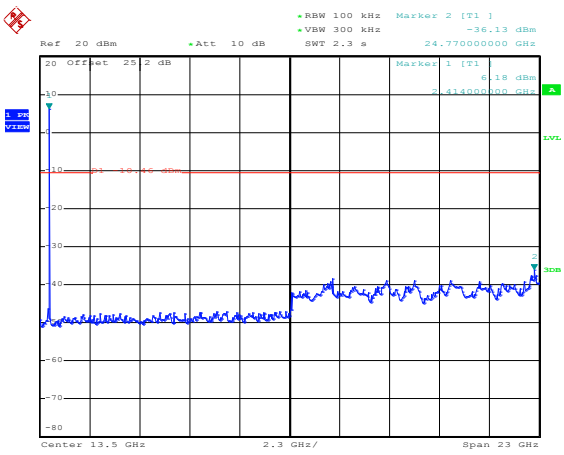
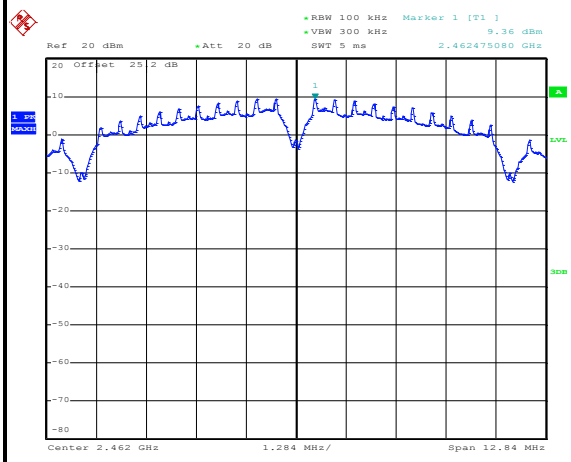
Test Mode :	802.11b	Test Channel :	06

100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

Test Mode :	802.11b	Test Channel :	11

100kHz PSD reference Level



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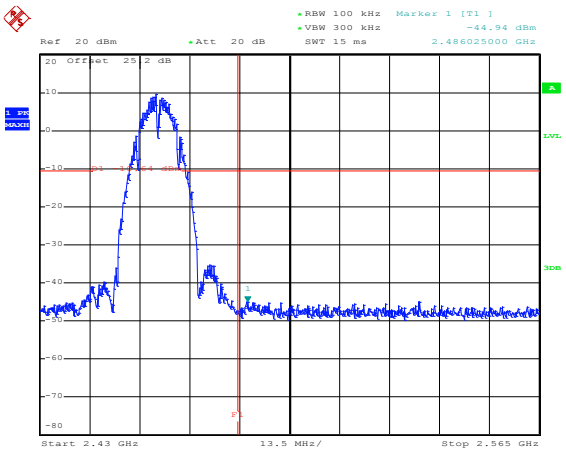
Channel Plot



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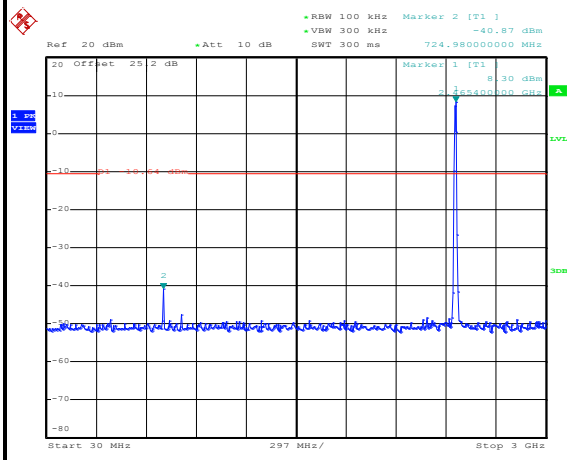
Spurious Emission 30MHz~3GHz



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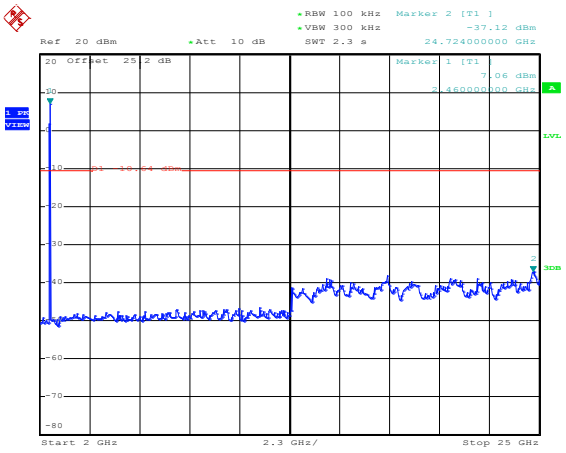
Spurious Emission 2GHz~25GHz



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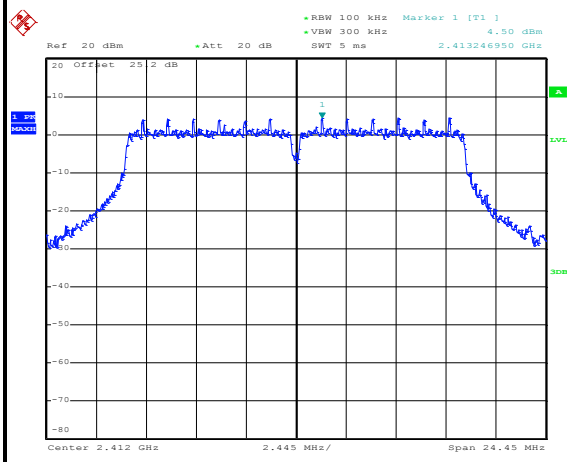
Test Mode :	802.11g	Test Channel :	01

100kHz PSD reference Level



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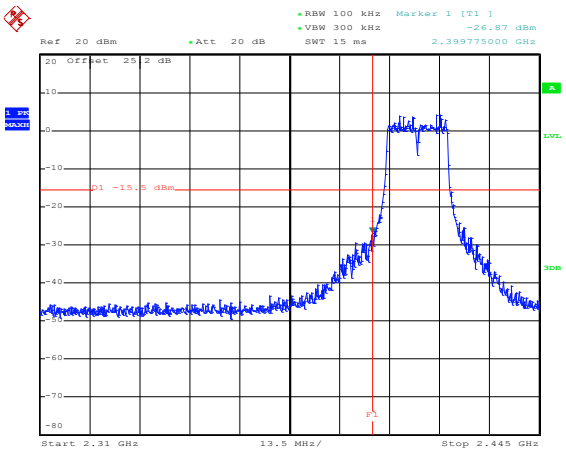
Channel Plot



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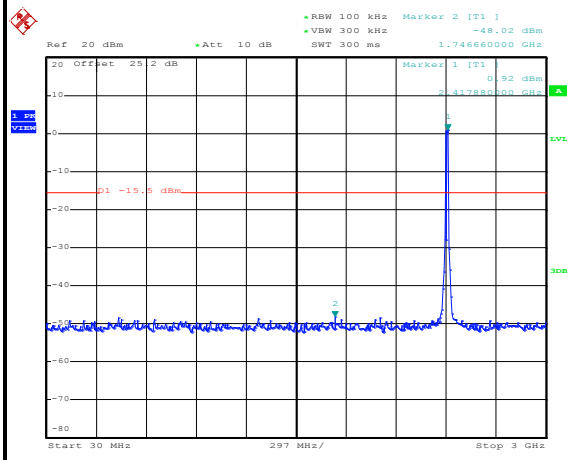
Spurious Emission 30MHz~3GHz



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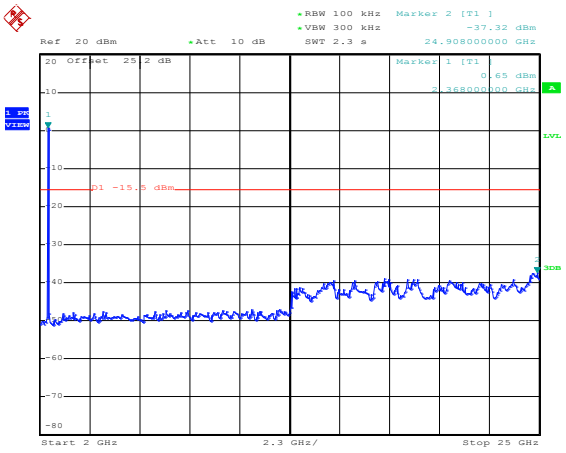
Spurious Emission 2GHz~25GHz



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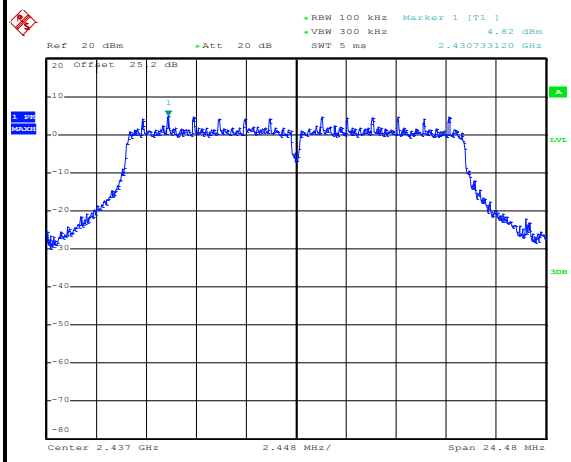
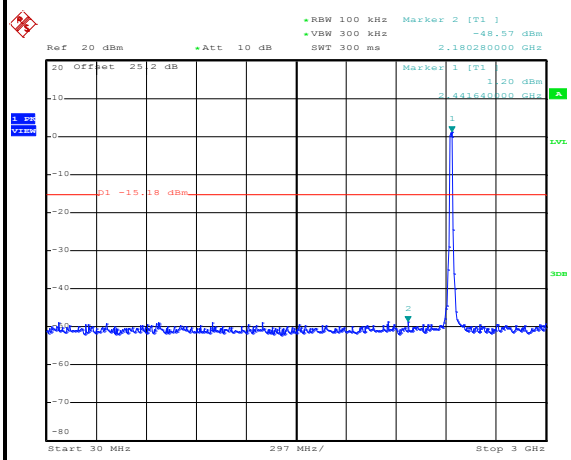
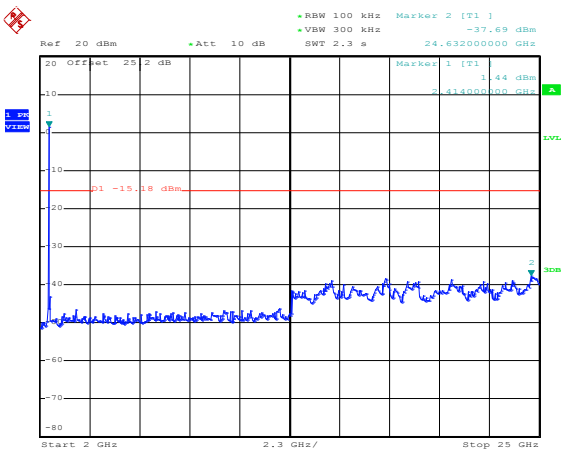
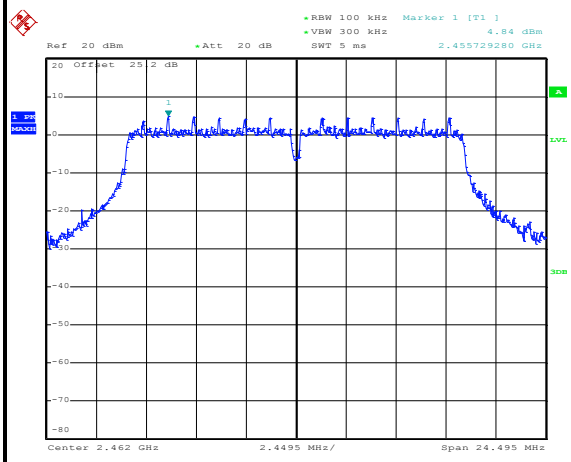
Test Mode :	802.11g	Test Channel :	06

100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

Test Mode :	802.11g	Test Channel :	11

100kHz PSD reference Level



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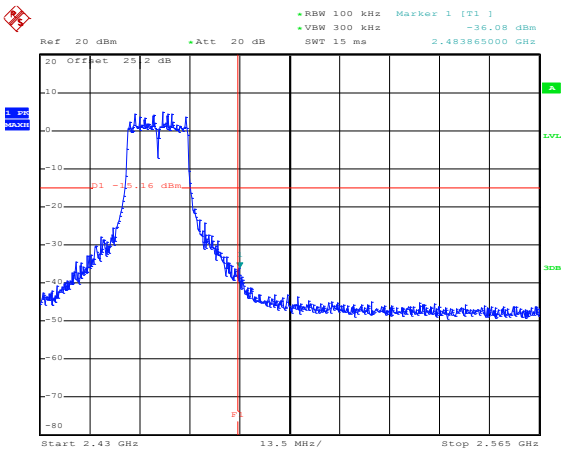
Channel Plot



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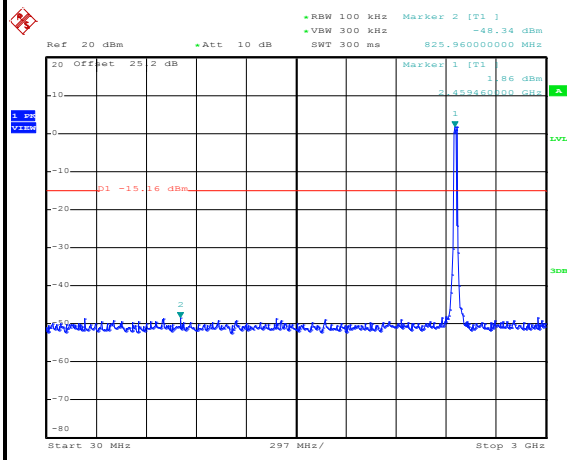
Spurious Emission 30MHz~3GHz



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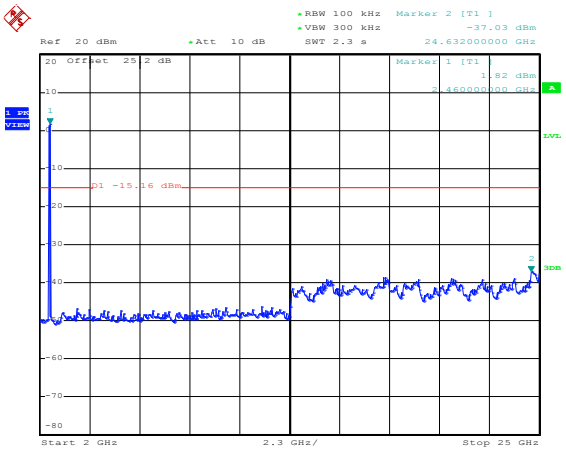
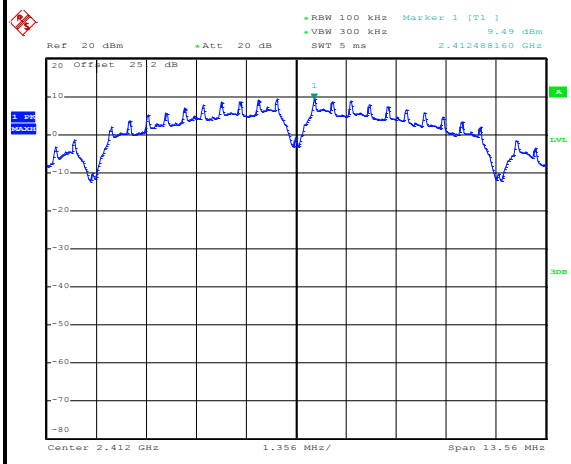
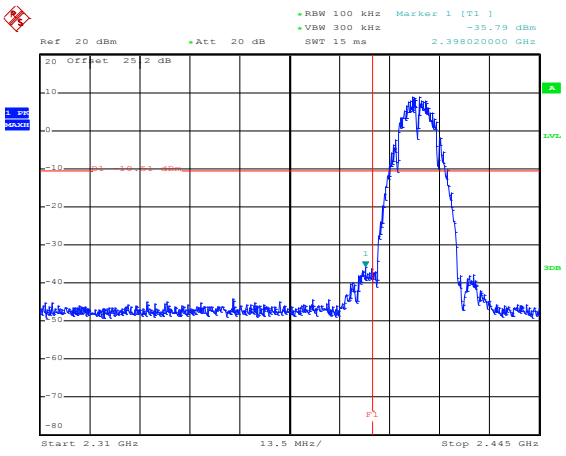
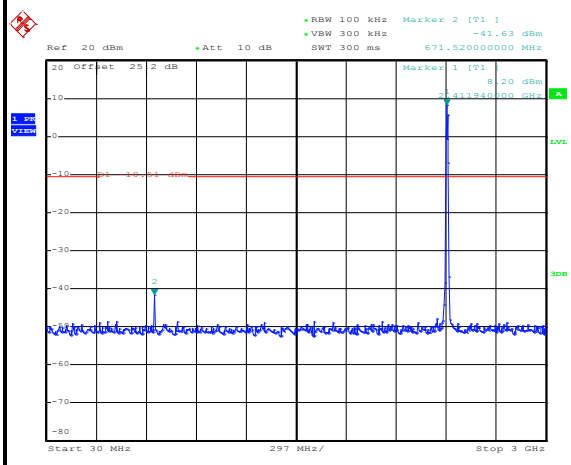
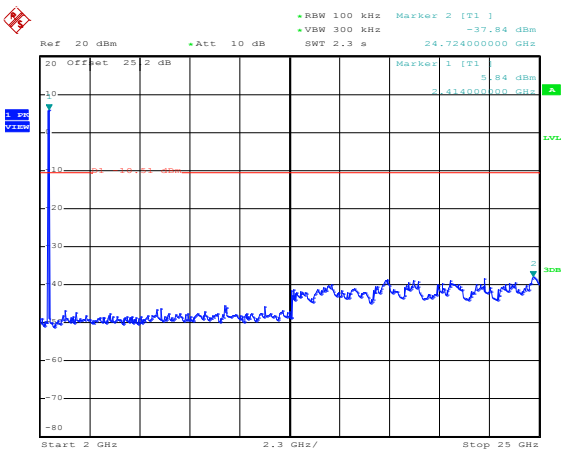
Spurious Emission 2GHz~25GHz



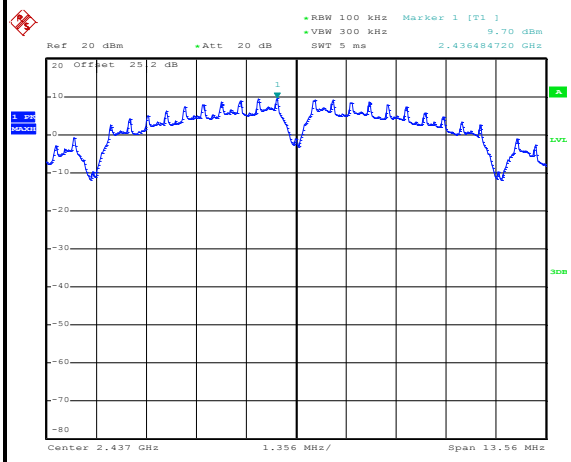
Date: 13.MAR.2018 22:29:55

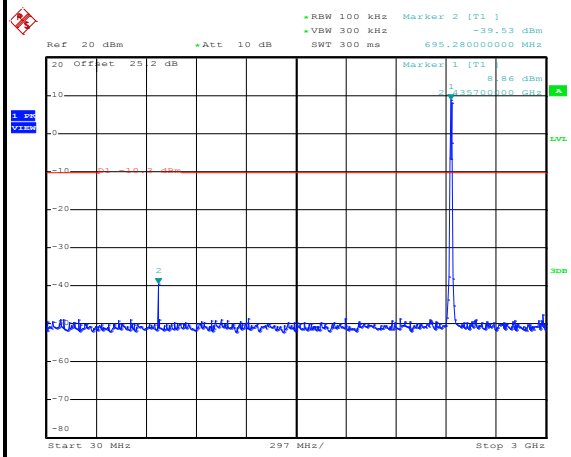
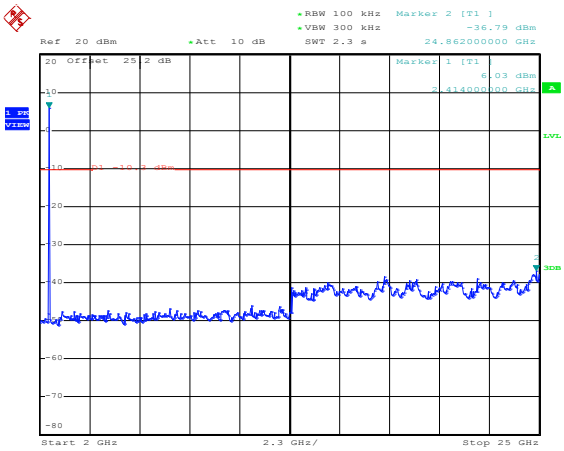
Number of TX = 1, Ant. 2 (Measured)

Test Mode :	802.11b	Test Channel :	01

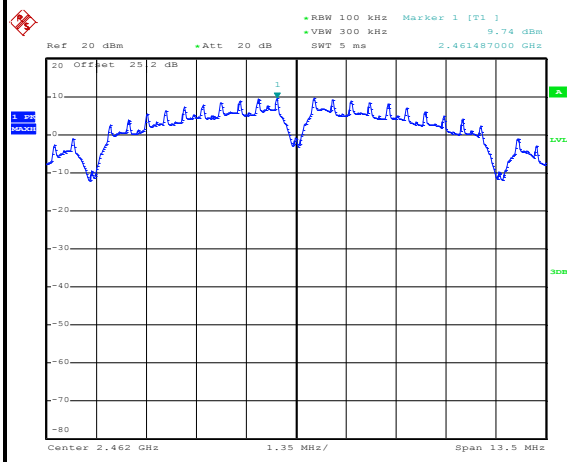
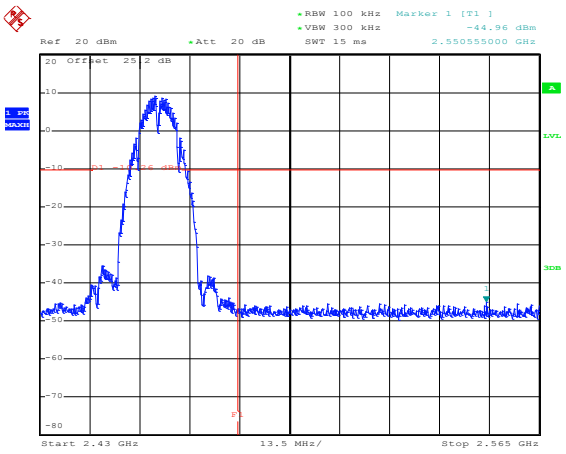
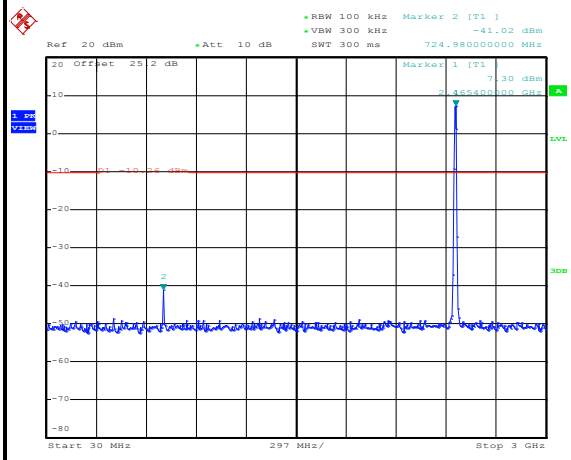
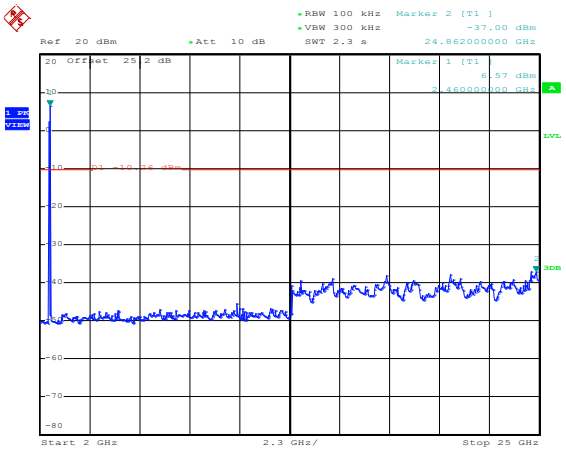
100kHz PSD reference Level	Channel Plot
	
Date: 13.MAR.2018 21:48:04	Date: 13.MAR.2018 21:48:40
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	
Date: 13.MAR.2018 21:48:57	Date: 13.MAR.2018 21:49:18

Test Mode :	802.11b	Test Channel :	06

100kHz PSD reference Level	Channel Plot
	
Date: 13.MAR.2018 21:55:54	

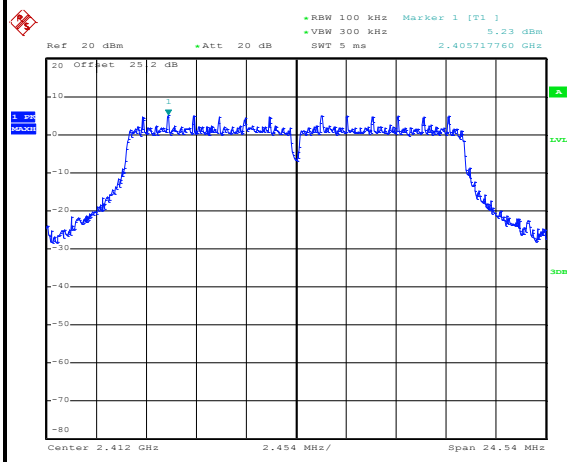
Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	
Date: 13.MAR.2018 21:56:21	Date: 13.MAR.2018 21:56:39

Test Mode :	802.11b	Test Channel :	11

100kHz PSD reference Level	Channel Plot
	
Date: 13.MAR.2018 22:09:59	Date: 13.MAR.2018 22:10:20
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	
Date: 13.MAR.2018 22:10:41	Date: 13.MAR.2018 22:11:00

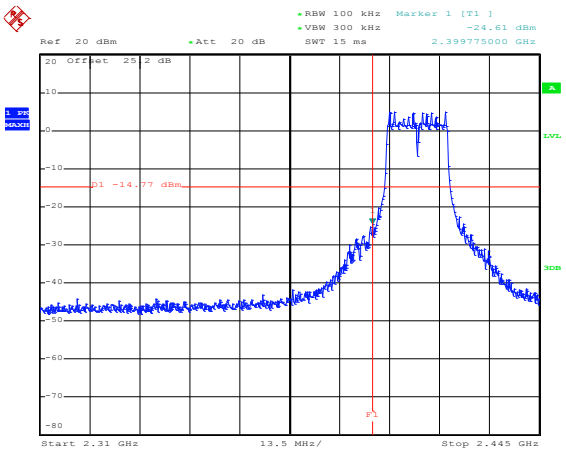
Test Mode :	802.11g	Test Channel :	01

100kHz PSD reference Level



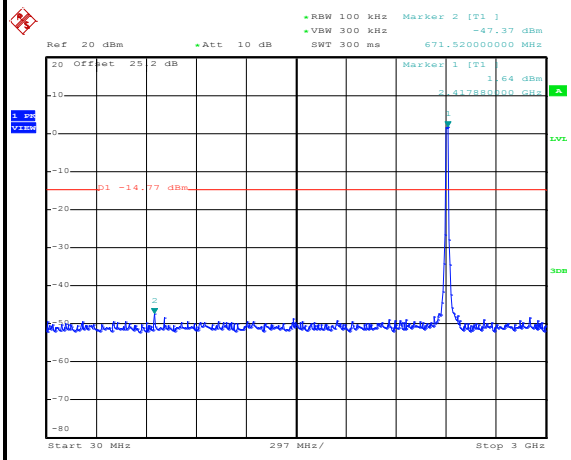
Date: 13.MAR.2018 22:34:56

Channel Plot



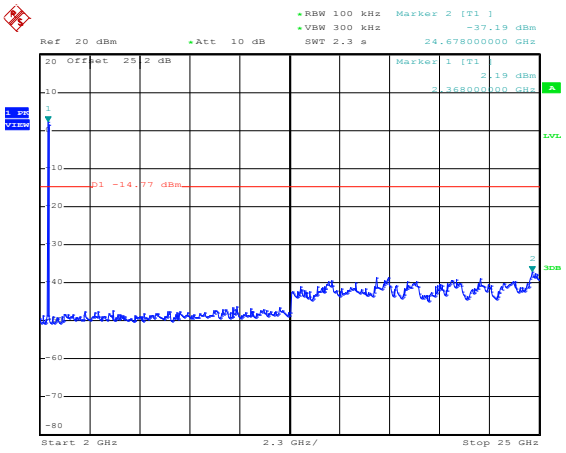
Date: 13.MAR.2018 22:35:51

Spurious Emission 30MHz~3GHz



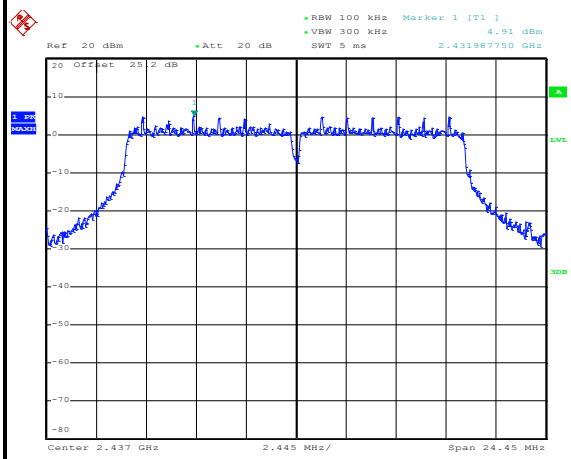
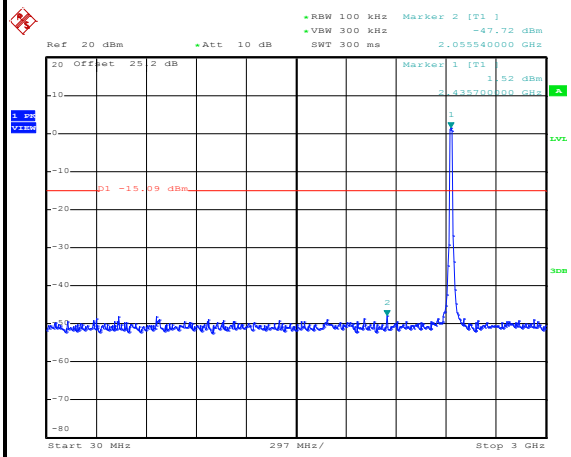
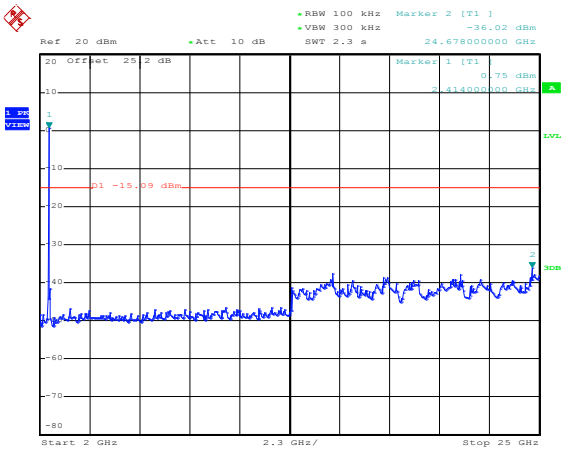
Date: 13.MAR.2018 22:37:15

Spurious Emission 2GHz~25GHz

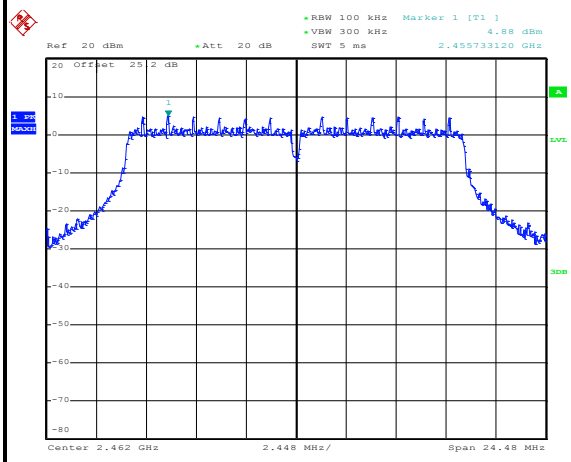
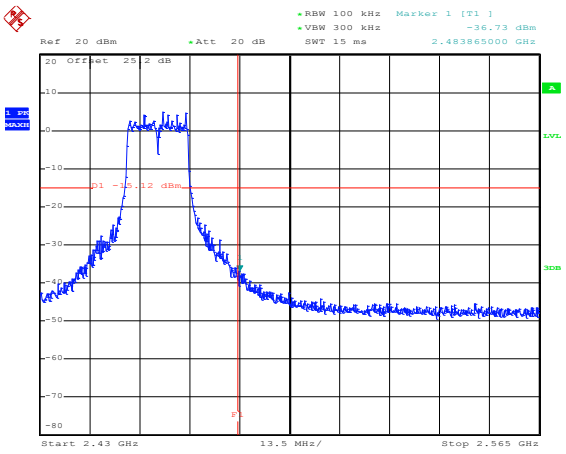
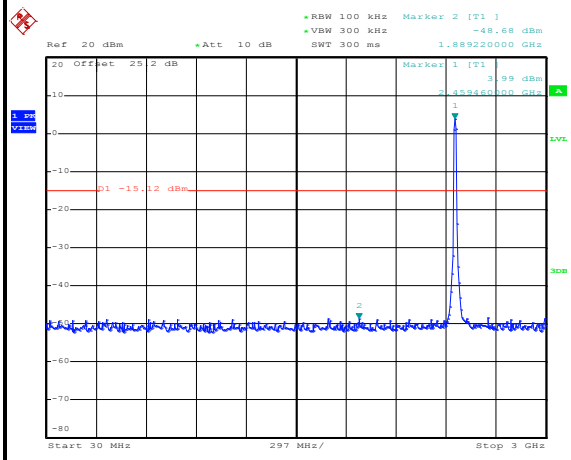
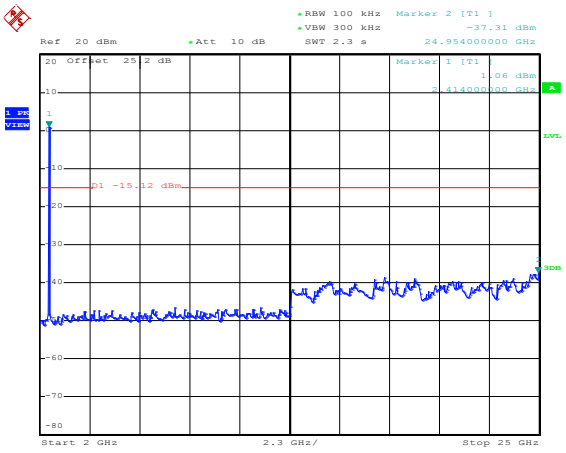


Date: 13.MAR.2018 22:37:42

Test Mode :	802.11g	Test Channel :	06

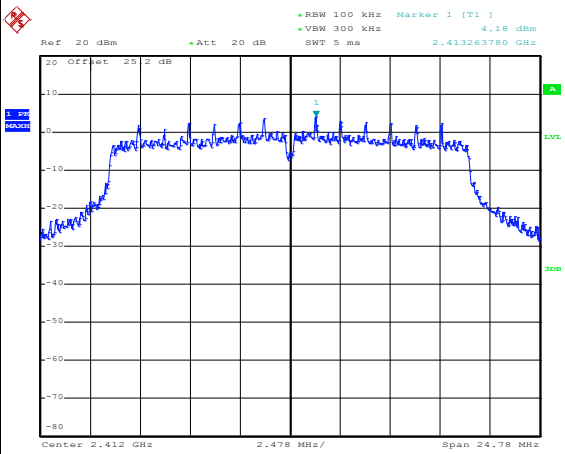
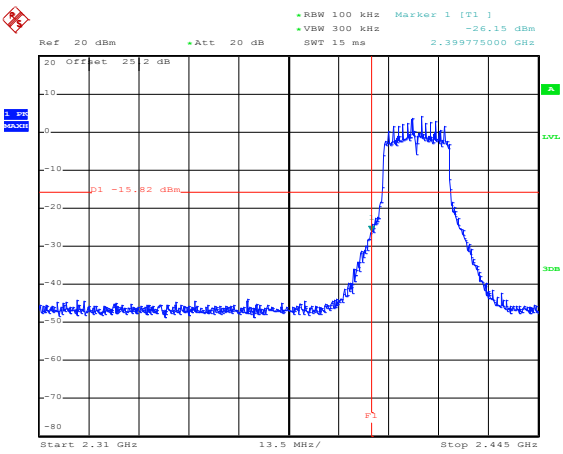
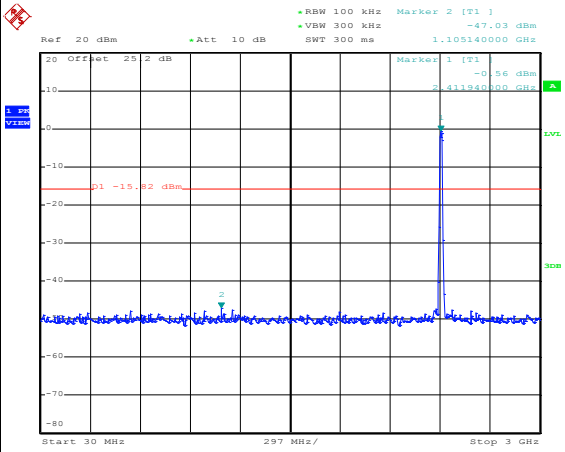
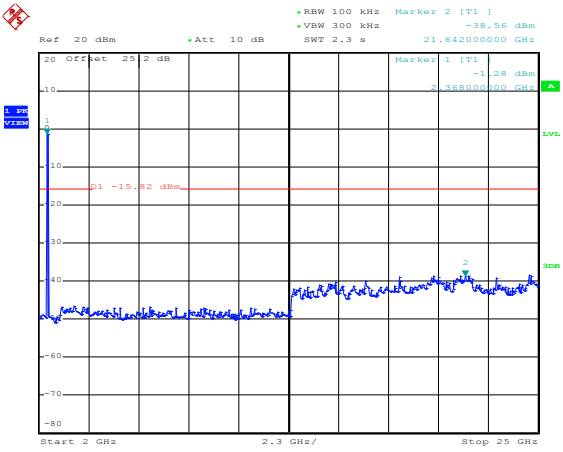
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

Test Mode :	802.11g	Test Channel :	11

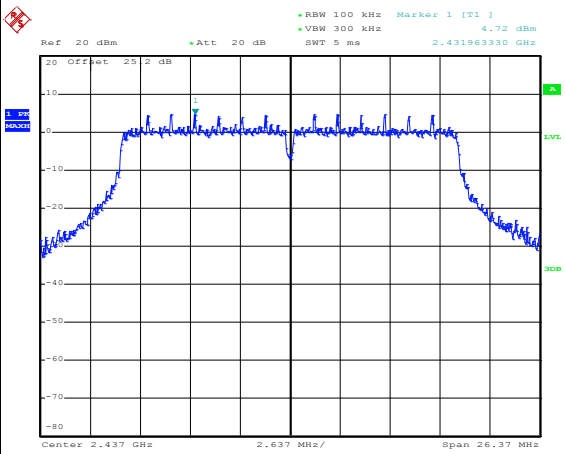
100kHz PSD reference Level	Channel Plot
	
Date: 13.MAR.2018 22:45:29	Date: 13.MAR.2018 22:46:11
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	
Date: 13.MAR.2018 22:47:20	Date: 13.MAR.2018 22:47:45

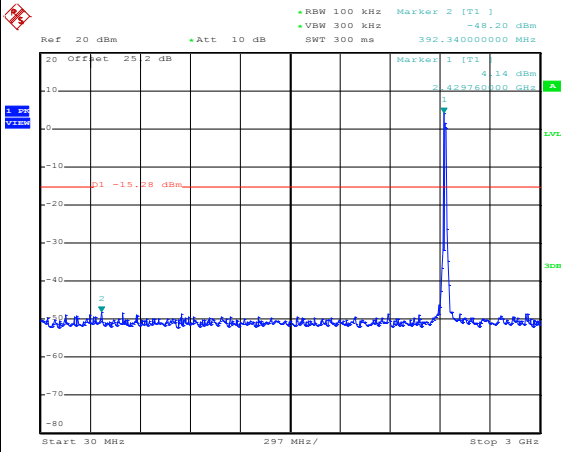
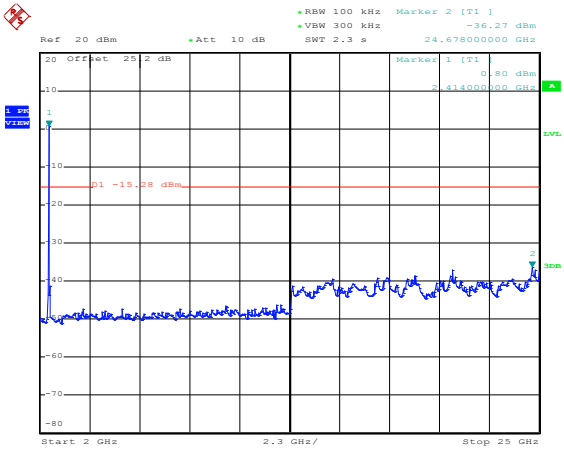
Number of TX = 2, Ant. 1 (Measured)

Test Mode :	802.11n HT20	Test Channel :	01

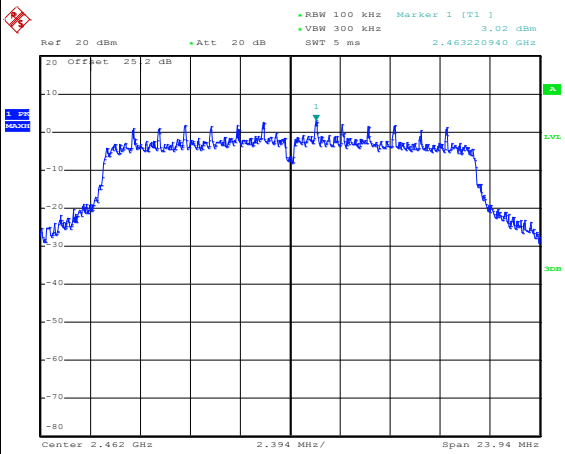
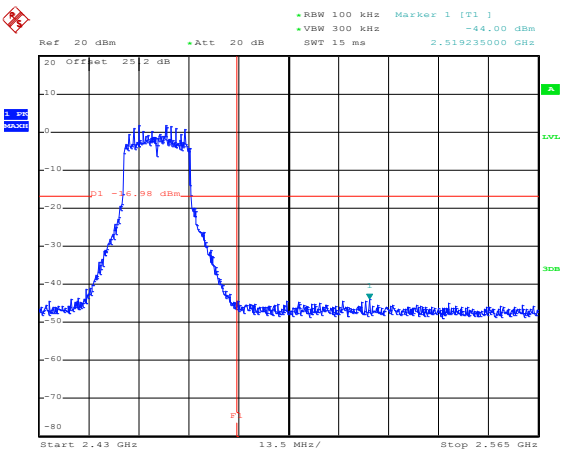
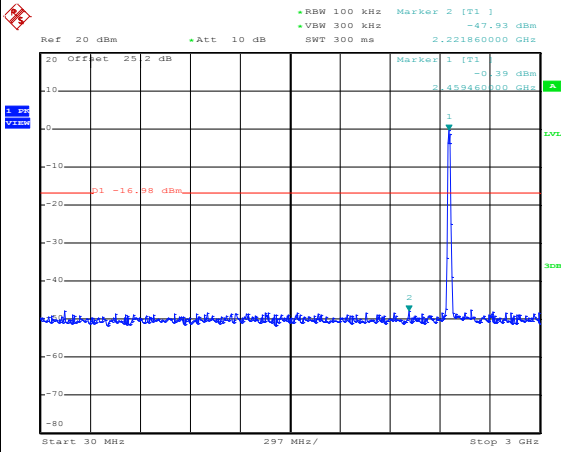
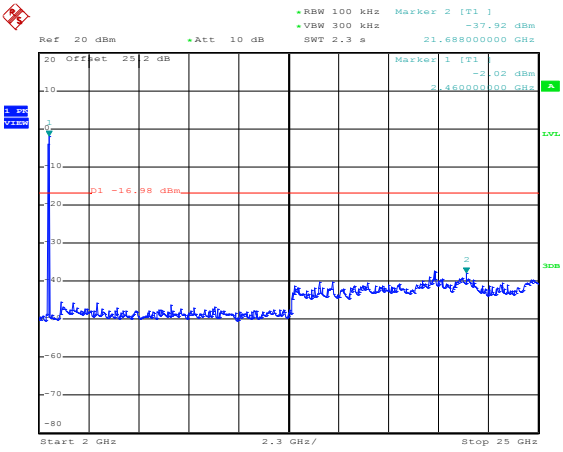
100kHz PSD reference Level	Channel Plot
	
Date: 4.APR.2018 11:26:49	Date: 4.APR.2018 11:27:11
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	
Date: 4.APR.2018 11:27:46	Date: 4.APR.2018 11:28:02

Test Mode :	802.11n HT20	Test Channel :	06

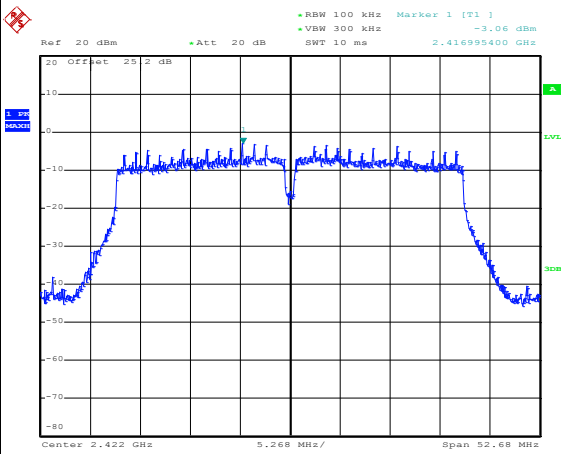
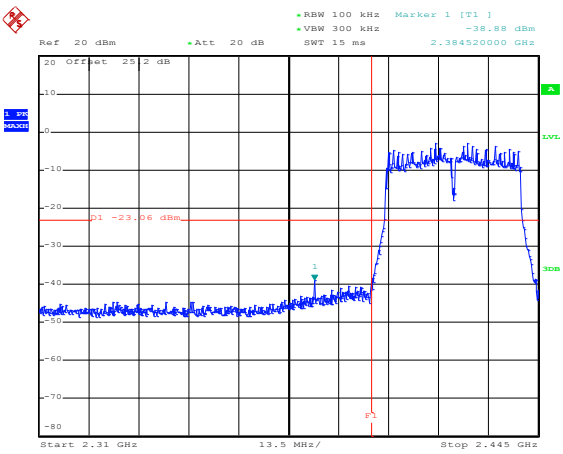
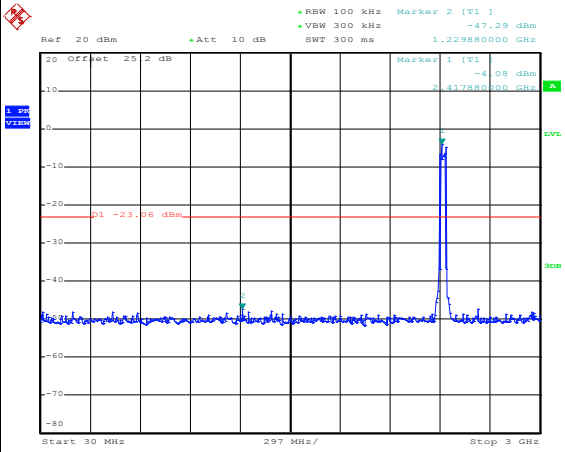
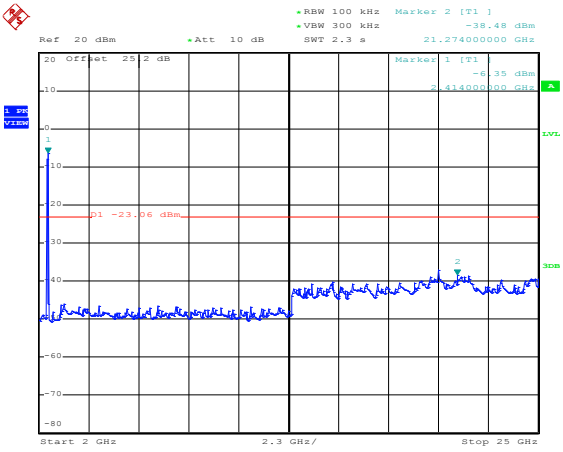
100kHz PSD reference Level	Channel Plot
 Date: 13.MAR.2018 23:44:26	

Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
 Date: 13.MAR.2018 23:45:44	 Date: 13.MAR.2018 23:46:06

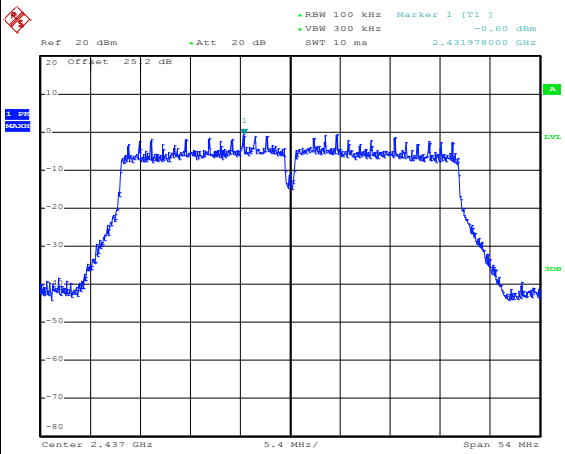
Test Mode :	802.11n HT20	Test Channel :	11

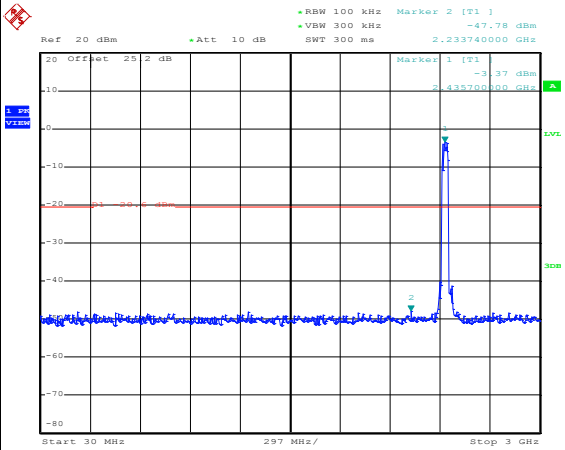
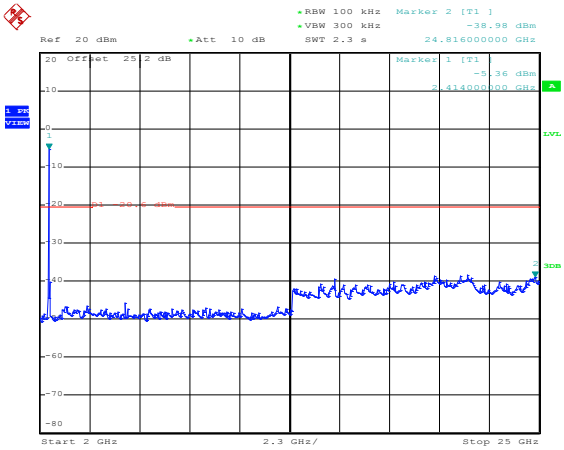
100kHz PSD reference Level	Channel Plot
	
Date: 4.APR.2018 11:40:58	Date: 4.APR.2018 11:41:15
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	
Date: 4.APR.2018 11:41:54	Date: 4.APR.2018 11:42:24

Test Mode :	802.11n HT40	Test Channel :	03

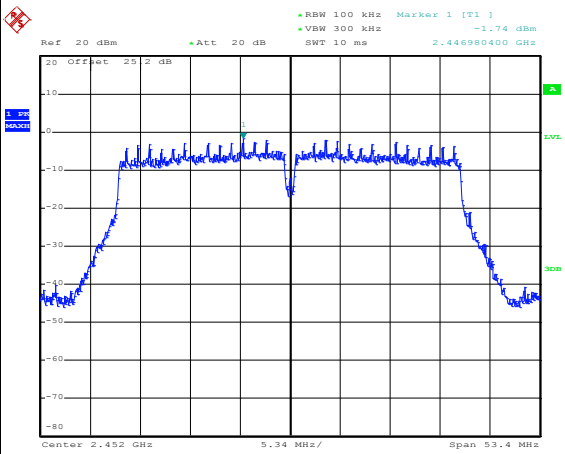
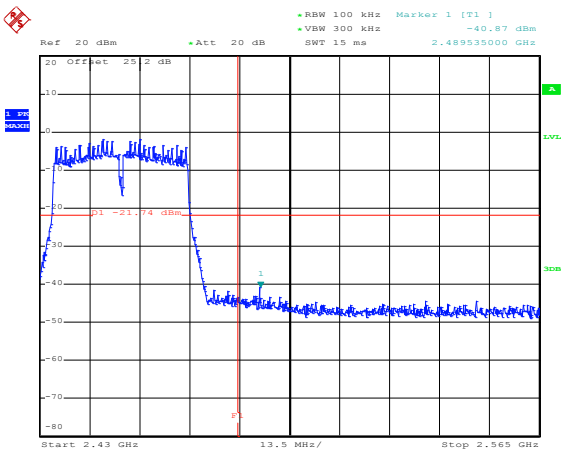
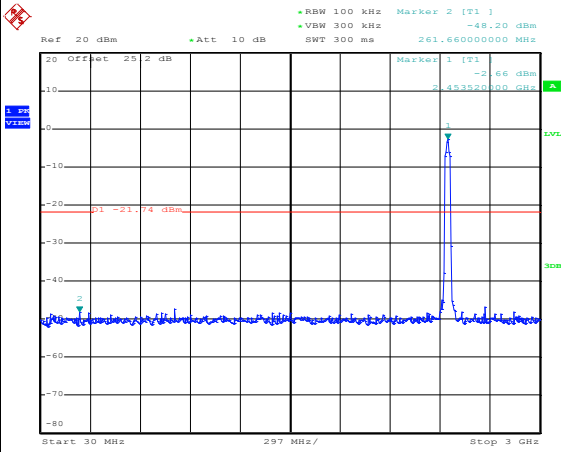
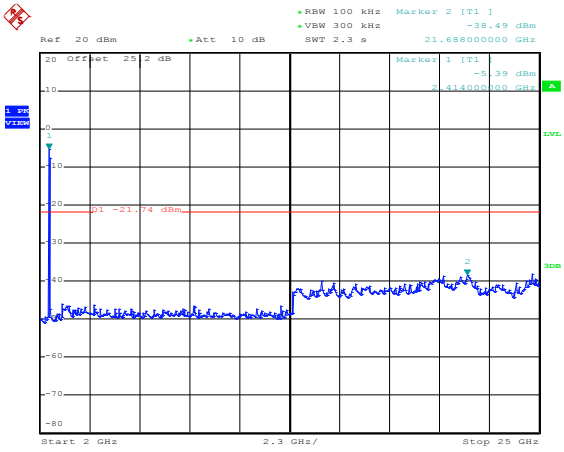
100kHz PSD reference Level	Channel Plot
	
Date: 4.APR.2018 14:24:08	Date: 4.APR.2018 14:24:28
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	
Date: 4.APR.2018 14:24:54	Date: 4.APR.2018 14:25:13

Test Mode :	802.11n HT40	Test Channel :	06

100kHz PSD reference Level	Channel Plot
 Date: 4.APR.2018 13:11:04	

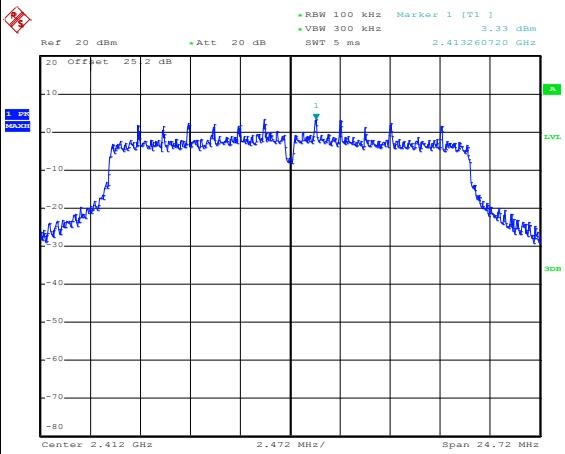
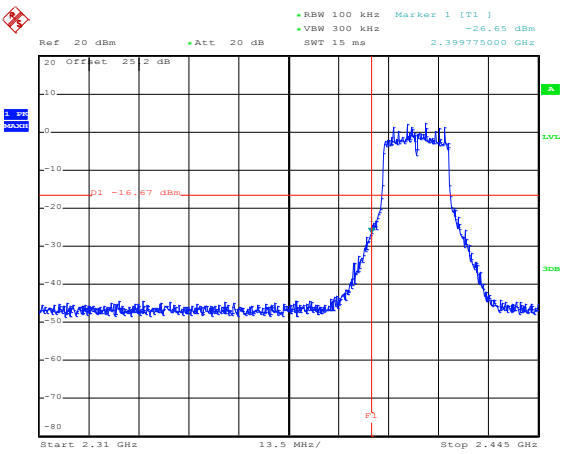
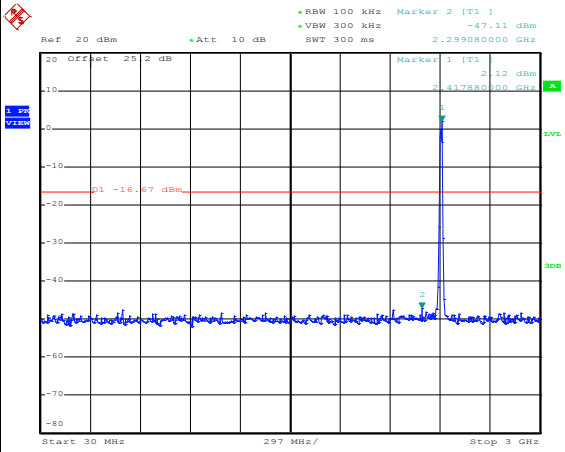
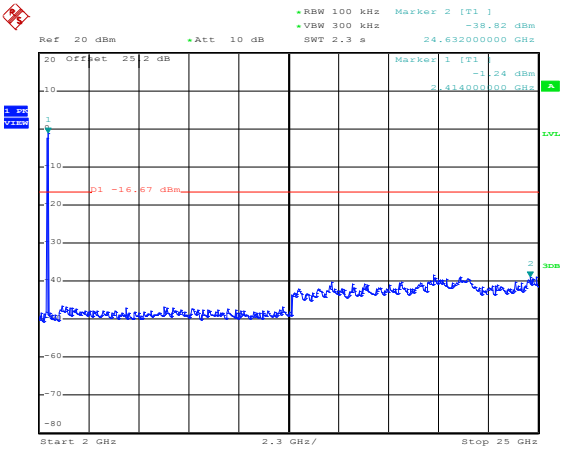
Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
 Date: 4.APR.2018 13:11:23	 Date: 4.APR.2018 13:11:37

Test Mode :	802.11n HT40	Test Channel :	09

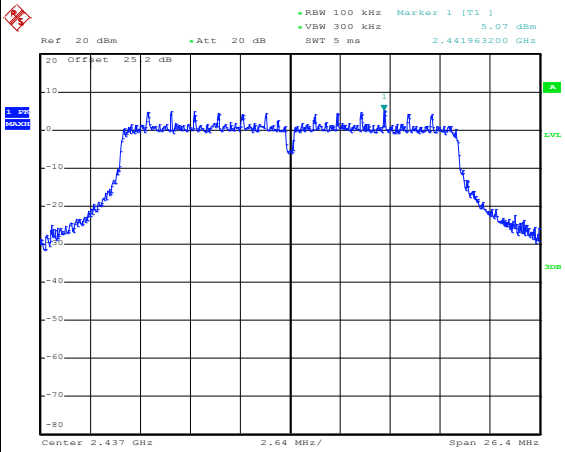
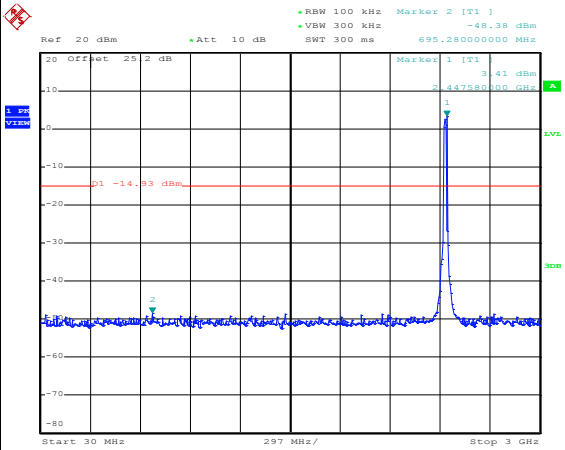
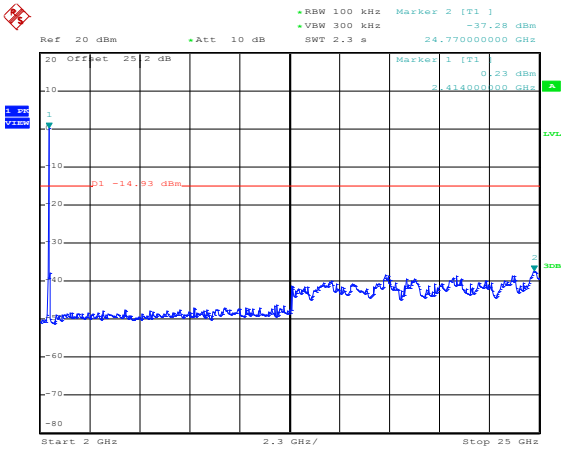
100kHz PSD reference Level	Channel Plot
	
Date: 4.APR.2018 13:24:43	Date: 4.APR.2018 13:25:01
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	
Date: 4.APR.2018 13:25:24	Date: 4.APR.2018 13:26:27

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

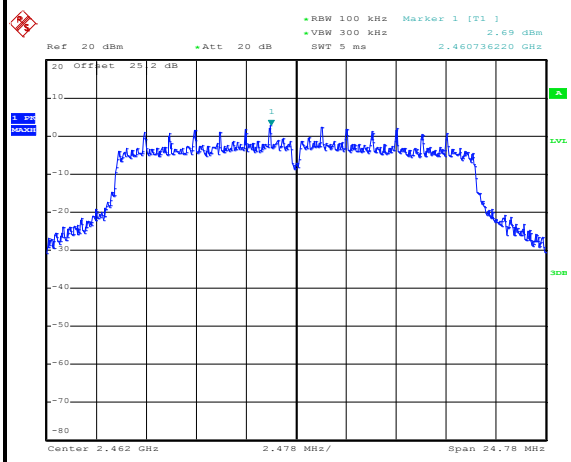
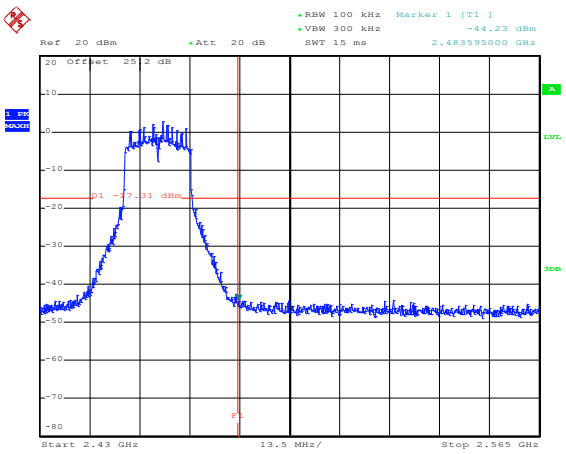
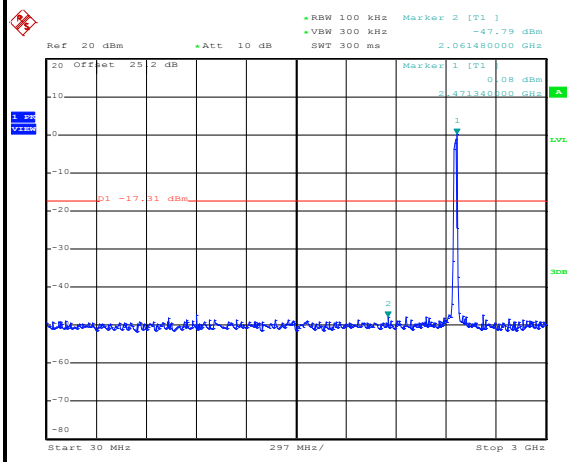
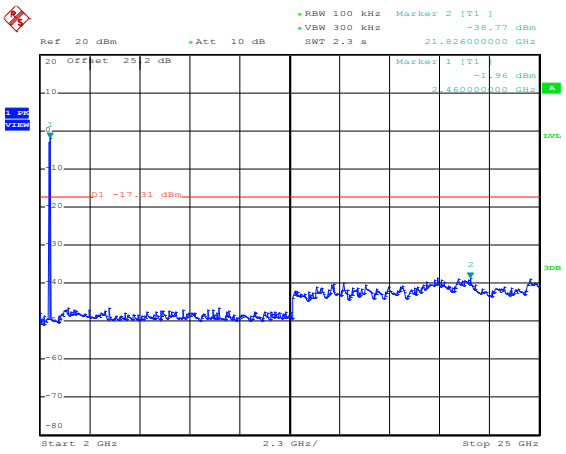
Test Mode :	802.11n HT20	Test Channel :	01

100kHz PSD reference Level	Channel Plot
	
Date: 4.APR.2018 11:33:17	Date: 4.APR.2018 11:33:38
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	
Date: 4.APR.2018 11:34:07	Date: 4.APR.2018 11:34:49

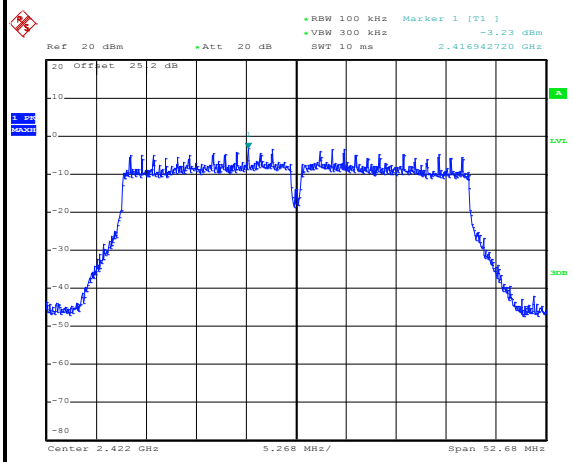
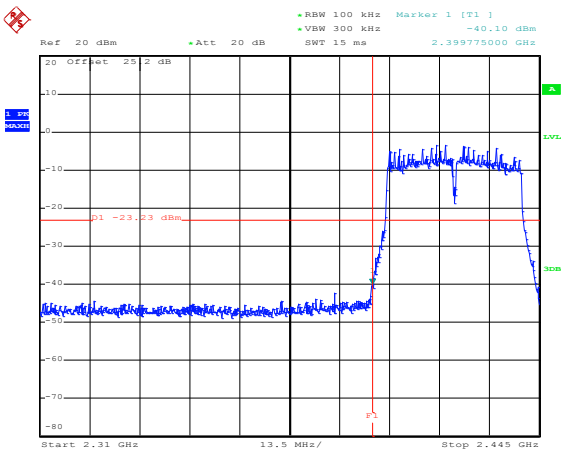
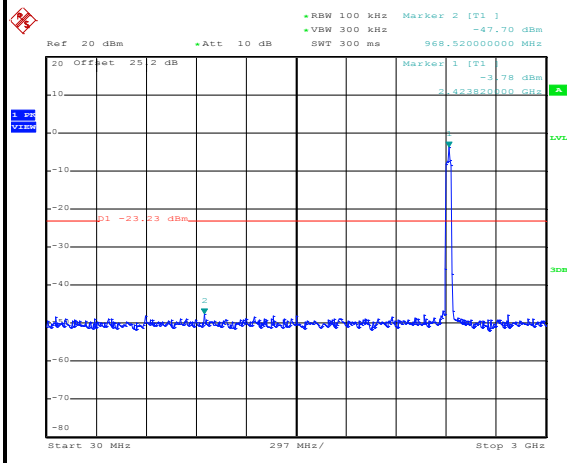
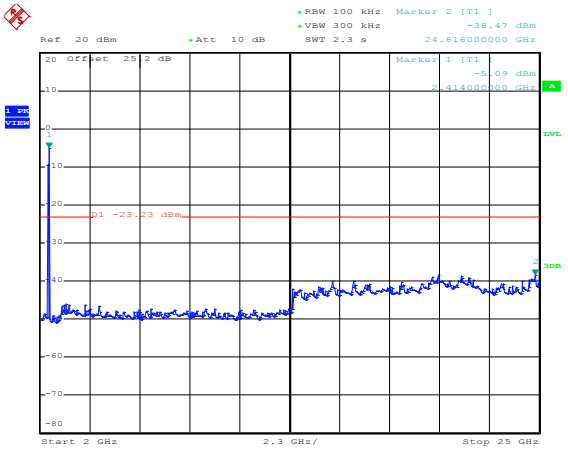
Test Mode :	802.11n HT20	Test Channel :	06

100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

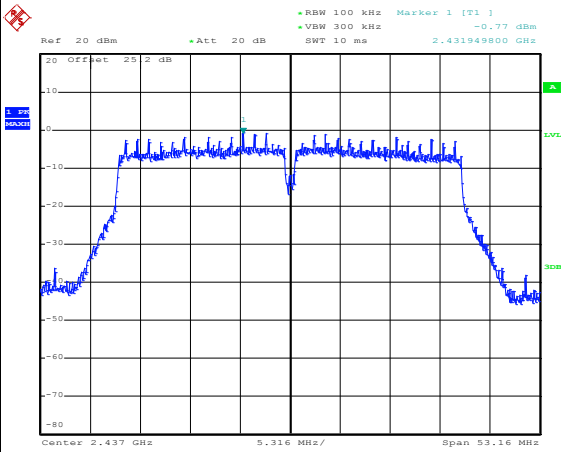
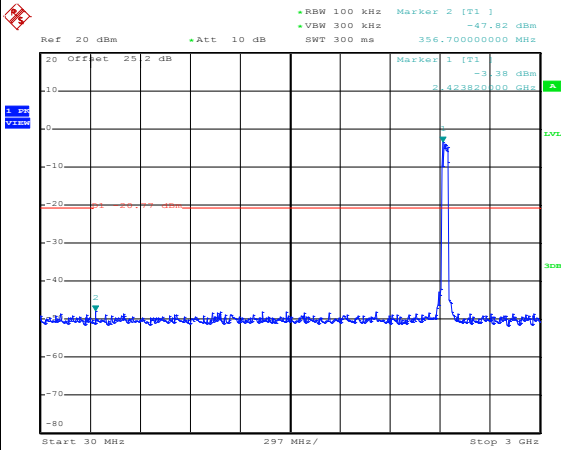
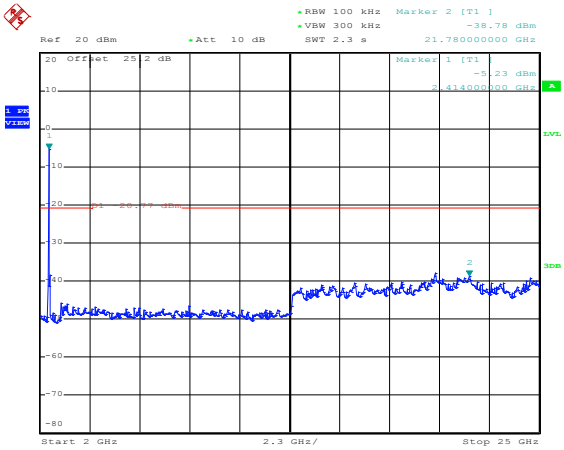
Test Mode :	802.11n HT20	Test Channel :	11

100kHz PSD reference Level	Channel Plot
	
Date: 4.APR.2018 11:49:39	Date: 4.APR.2018 11:50:00
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	
Date: 4.APR.2018 11:50:43	Date: 4.APR.2018 11:51:01

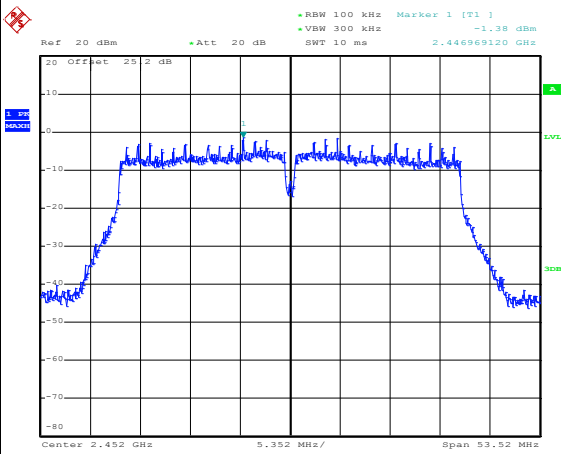
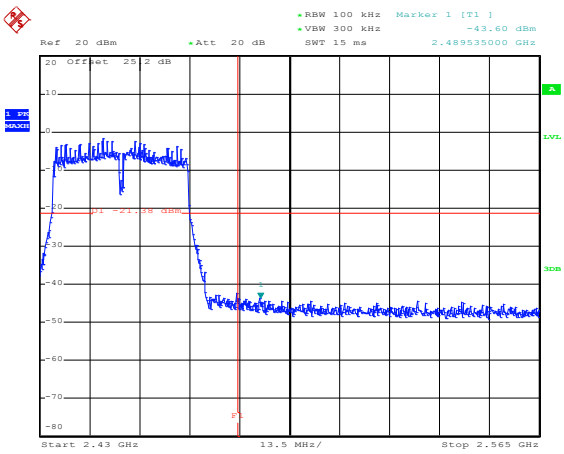
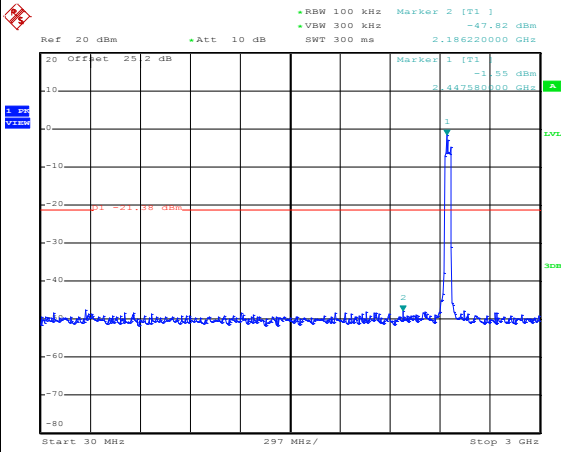
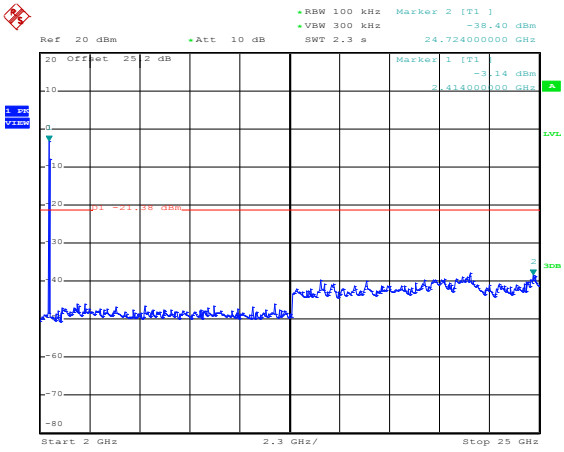
Test Mode :	802.11n HT40	Test Channel :	03

100kHz PSD reference Level	Channel Plot
 Date: 4.APR.2018 12:26:48	 Date: 4.APR.2018 12:27:26
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
 Date: 4.APR.2018 12:28:42	 Date: 4.APR.2018 12:29:00

Test Mode :	802.11n HT40	Test Channel :	06

100kHz PSD reference Level	Channel Plot
 Date: 4.APR.2018 13:16:45	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
 Date: 4.APR.2018 13:17:11	 Date: 4.APR.2018 13:17:29

Test Mode :	802.11n HT40	Test Channel :	09

100kHz PSD reference Level	Channel Plot
	
Date: 4.APR.2018 13:34:50	Date: 4.APR.2018 13:35:22
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	
Date: 4.APR.2018 13:35:46	Date: 4.APR.2018 13:36:05

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

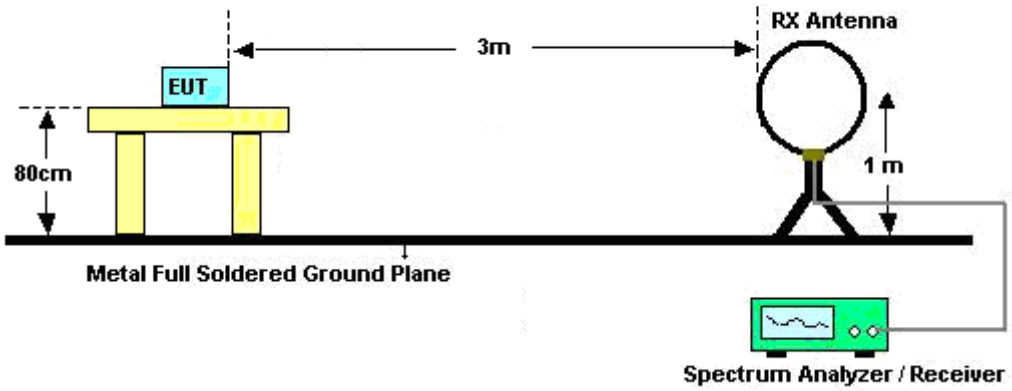
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

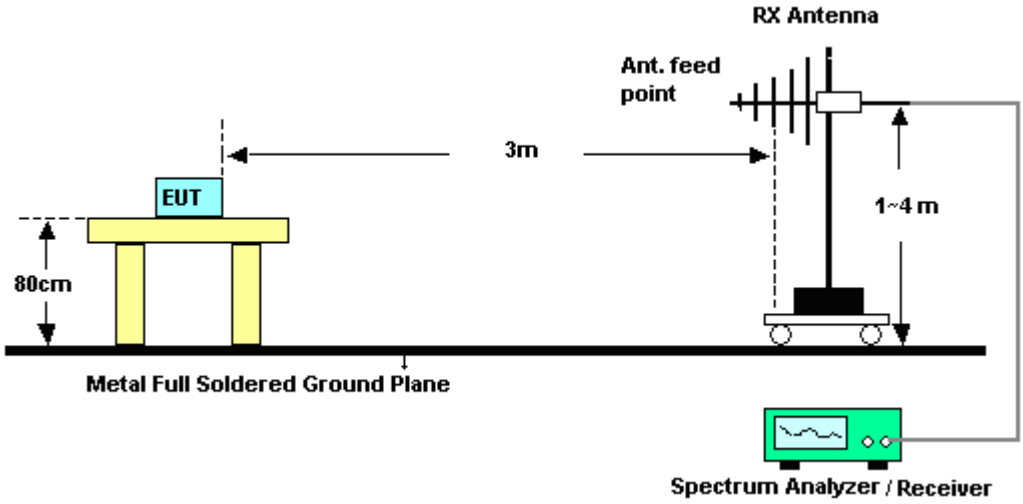
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. 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

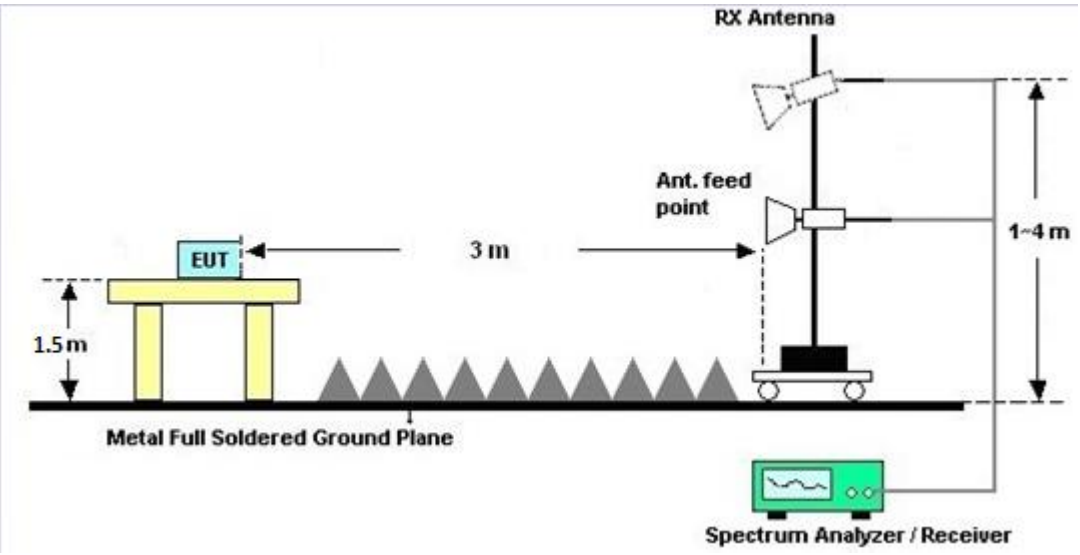
For radiated emissions below 30MHz



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 was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

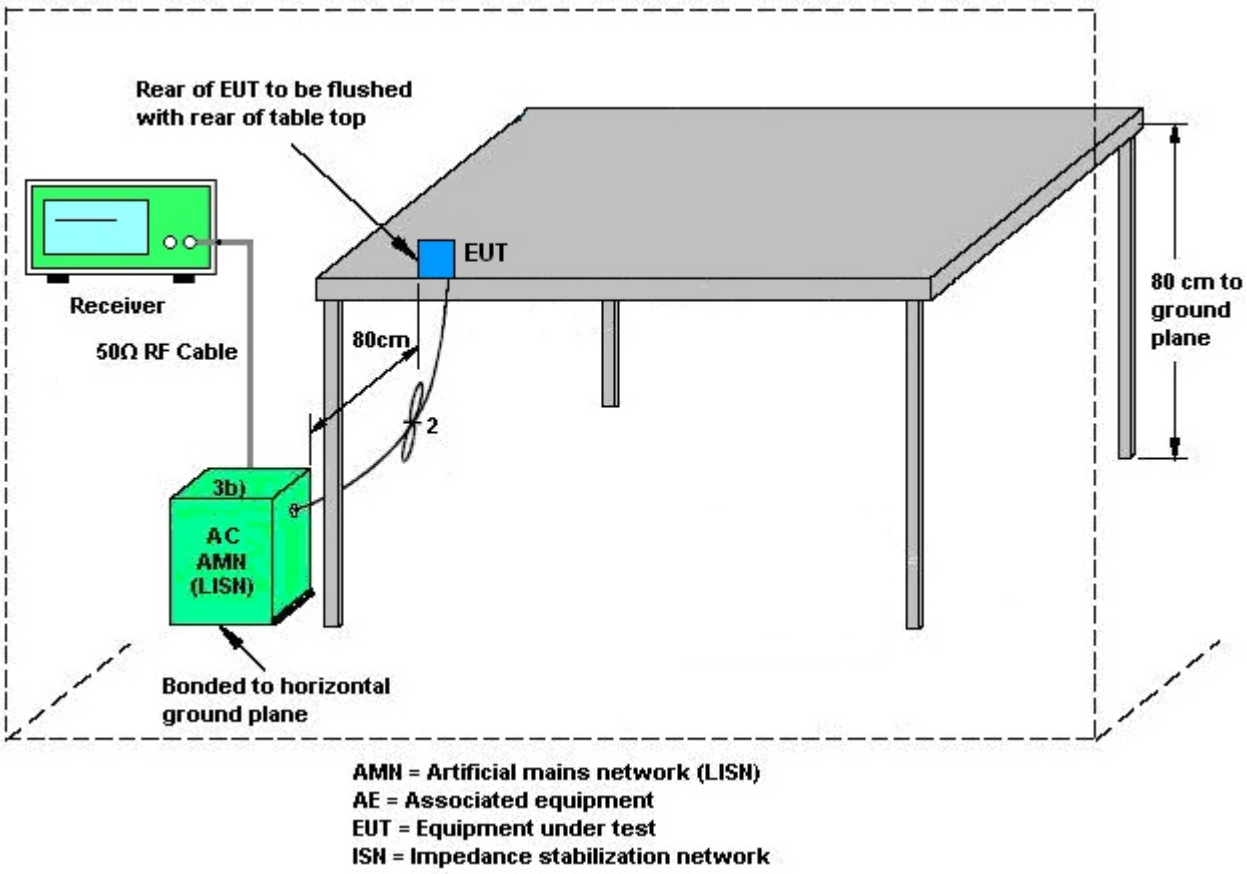
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

The directional gain “DG” is calculated as following table.

<CDD Modes>

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
2.4 GHz	-2.00	-2.00	-2.00	1.01	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1218006	N/A	Oct. 06, 2017	Feb. 22, 2018~ Apr. 04, 2018	Oct. 05, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207363	300MHz~40GHz	Oct. 06, 2017	Feb. 22, 2018~ Apr. 04, 2018	Oct. 05, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2017	Feb. 22, 2018~ Apr. 04, 2018	Nov. 20, 2018	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 16, 2017	Feb. 22, 2018~ Apr. 04, 2018	Oct. 15, 2018	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Feb. 23, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Feb. 23, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Feb. 23, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V8.4	N/A	N/A	N/A	Feb. 23, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Feb. 23, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Feb. 23, 2018	Jan. 02, 2019	Conduction (CO05-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL6111D&00802N1D01N-06	47020&06	30MHz to 1GHz	Nov. 20, 2017	Mar. 08, 2018~ Mar. 31, 2018	Nov. 19, 2018	Radiation (03CH16-HY)
Horn Antenna	ESCO	3117	00211469	1GHz~18GHz	Jul. 31, 2017	Mar. 08, 2018~ Mar. 31, 2018	Jul. 30, 2018	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	Apr. 27, 2017	Mar. 08, 2018~ Mar. 31, 2018	Apr. 26, 2018	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1000MHz	Sep. 27, 2017	Mar. 08, 2018~ Mar. 31, 2018	Sep. 26, 2018	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz ~ 26.5GHz	Dec. 05, 2017	Mar. 08, 2018~ Mar. 31, 2018	Dec. 04, 2018	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-303	17100018000 54001	1GHz~18GHz	Dec. 07, 2017	Mar. 08, 2018~ Mar. 31, 2018	Dec. 06, 2018	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 05, 2017	Mar. 08, 2018~ Mar. 31, 2018	Dec. 04, 2018	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY57290111	3Hz~26.5GHz	Nov. 02, 2017	Mar. 08, 2018~ Mar. 31, 2018	Nov. 01, 2018	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN12	1GHz Low Pass Filter	Sep. 18, 2017	Mar. 08, 2018~ Mar. 31, 2018	Sep. 17, 2018	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN3	3 GHz Highpass	Jul. 06, 2017	Mar. 08, 2018~ Mar. 31, 2018	Jul. 05, 2018	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	MY1082/26EA	30M~18GHz	Oct. 17, 2017	Mar. 08, 2018~ Mar. 31, 2018	Oct. 16, 2018	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 17, 2017	Mar. 08, 2018~ Mar. 31, 2018	Oct. 16, 2018	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 17, 2017	Mar. 08, 2018~ Mar. 31, 2018	Oct. 16, 2018	Radiation (03CH16-HY)
Software	AUDIX	E3 6.2009-8-24	RK001136	N/A	N/A	Mar. 08, 2018~ Mar. 31, 2018	N/A	Radiation (03CH16-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.70**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.90**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.80**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.90**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Lena Lo / Kai Liao /Luffy Lin	Temperature:	21~25	°C
Test Date:	2018/2/22 ~ 2018/4/4	Relative Humidity:	51~54	%

Report Number : FR821216C

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	1	1	2412	13.95	14.00	8.52	9.04	0.50	Pass
11b	1Mbps	1	6	2437	14.00	14.05	8.52	9.04	0.50	Pass
11b	1Mbps	1	11	2462	14.05	14.00	8.56	9.00	0.50	Pass
11g	6Mbps	1	1	2412	18.10	18.10	16.30	16.36	0.50	Pass
11g	6Mbps	1	6	2437	18.15	18.20	16.32	16.30	0.50	Pass
11g	6Mbps	1	11	2462	18.35	18.35	16.33	16.32	0.50	Pass
HT20	MCS0	2	1	2412	19.15	19.15	16.52	16.48	0.50	Pass
HT20	MCS0	2	6	2437	19.15	19.15	17.58	17.60	0.50	Pass
HT20	MCS0	2	11	2462	19.15	18.95	15.96	16.52	0.50	Pass
HT40	MCS0	2	3	2422	37.70	37.60	35.12	35.12	0.50	Pass
HT40	MCS0	2	6	2437	38.10	37.60	36.00	35.44	0.50	Pass
HT40	MCS0	2	9	2452	37.20	37.10	35.60	35.68	0.50	Pass

Report Number : FR821216C

TEST RESULTS DATA
Peak Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	19.84	19.83		30.00	30.00	-2.00	-2.00	17.84	17.83	36.00	36.00	Pass
11b	1Mbps	1	6	2437	20.21	20.02		30.00	30.00	-2.00	-2.00	18.21	18.02	36.00	36.00	Pass
11b	1Mbps	1	11	2462	20.22	19.94		30.00	30.00	-2.00	-2.00	18.22	17.94	36.00	36.00	Pass
11g	6Mbps	1	1	2412	23.92	17.57		30.00	30.00	-2.00	-2.00	21.92	15.57	36.00	36.00	Pass
11g	6Mbps	1	6	2437	23.84	23.92		30.00	30.00	-2.00	-2.00	21.84	21.92	36.00	36.00	Pass
11g	6Mbps	1	11	2462	23.88	18.38		30.00	30.00	-2.00	-2.00	21.88	16.38	36.00	36.00	Pass
HT20	MCS0	1	1	2412	17.72	17.64		30.00	30.00	-2.00	-2.00	15.72	15.64	36.00	36.00	Pass
HT20	MCS0	1	6	2437	24.54	24.57		30.00	30.00	-2.00	-2.00	22.54	22.57	36.00	36.00	Pass
HT20	MCS0	1	11	2462	17.13	16.84		30.00	30.00	-2.00	-2.00	15.13	14.84	36.00	36.00	Pass
HT40	MCS0	1	3	2422	15.57	15.36		30.00	30.00	-2.00	-2.00	13.57	13.36	36.00	36.00	Pass
HT40	MCS0	1	6	2437	17.80	17.76		30.00	30.00	-2.00	-2.00	15.80	15.76	36.00	36.00	Pass
HT40	MCS0	1	9	2452	17.01	16.62		30.00	30.00	-2.00	-2.00	15.01	14.62	36.00	36.00	Pass
HT20	MCS0	2	1	2412	17.73	17.42	20.59	30.00		-2.00		18.59		36.00		Pass
HT20	MCS0	2	6	2437	24.27	24.65	27.47	30.00		-2.00		25.47		36.00		Pass
HT20	MCS0	2	11	2462	17.15	16.90	20.04	30.00		-2.00		18.04		36.00		Pass
HT40	MCS0	2	3	2422	15.62	15.37	18.51	30.00		-2.00		16.51		36.00		Pass
HT40	MCS0	2	6	2437	17.81	17.77	20.80	30.00		-2.00		18.80		36.00		Pass
HT40	MCS0	2	9	2452	17.38	16.63	20.03	30.00		-2.00		18.03		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	1	1	2412	0.04	0.04	17.72	17.65	
11b	1Mbps	1	6	2437	0.04	0.04	17.90	17.77	
11b	1Mbps	1	11	2462	0.04	0.04	17.96	17.76	
11g	6Mbps	1	1	2412	0.08	0.08	16.20	13.02	
11g	6Mbps	1	6	2437	0.08	0.08	16.45	16.21	
11g	6Mbps	1	11	2462	0.08	0.08	16.47	13.74	
HT20	MCS0	1	1	2412	0.09	0.09	13.02	12.92	
HT20	MCS0	1	6	2437	0.09	0.09	16.46	16.22	
HT20	MCS0	1	11	2462	0.09	0.09	12.40	12.07	
HT40	MCS0	1	3	2422	0.25	0.25	10.19	9.86	
HT40	MCS0	1	6	2437	0.25	0.25	12.46	12.30	
HT40	MCS0	1	9	2452	0.25	0.25	11.50	11.35	
HT20	MCS0	2	1	2412	0.09	0.09	13.03	12.77	15.91
HT20	MCS0	2	6	2437	0.09	0.09	16.30	16.64	19.48
HT20	MCS0	2	11	2462	0.09	0.09	12.41	12.10	15.27
HT40	MCS0	2	3	2422	0.25	0.25	10.21	9.87	13.05
HT40	MCS0	2	6	2437	0.25	0.25	12.51	12.31	15.42
HT40	MCS0	2	9	2452	0.25	0.25	11.52	11.37	14.46

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

Report Number : FR821216C

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	-4.66	-5.43		-2.00	-2.00	8.00	8.00	Pass
11b	1Mbps	1	6	2437	-3.94	-4.07		-2.00	-2.00	8.00	8.00	Pass
11b	1Mbps	1	11	2462	-4.75	-4.65		-2.00	-2.00	8.00	8.00	Pass
11g	6Mbps	1	1	2412	-9.27	-8.82		-2.00	-2.00	8.00	8.00	Pass
11g	6Mbps	1	6	2437	-8.50	-8.55		-2.00	-2.00	8.00	8.00	Pass
11g	6Mbps	1	11	2462	-9.79	-9.04		-2.00	-2.00	8.00	8.00	Pass
HT20	MCS0	2	1	2412	-11.78	-11.44	-8.43	1.01		8.00		Pass
HT20	MCS0	2	6	2437	-9.61	-8.18	-5.17	1.01		8.00		Pass
HT20	MCS0	2	11	2462	-13.30	-13.39	-10.29	1.01		8.00		Pass
HT40	MCS0	2	3	2422	-17.94	-19.63	-14.93	1.01		8.00		Pass
HT40	MCS0	2	6	2437	-15.88	-15.72	-12.71	1.01		8.00		Pass
HT40	MCS0	2	9	2452	-17.44	-17.13	-14.12	1.01		8.00		Pass

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

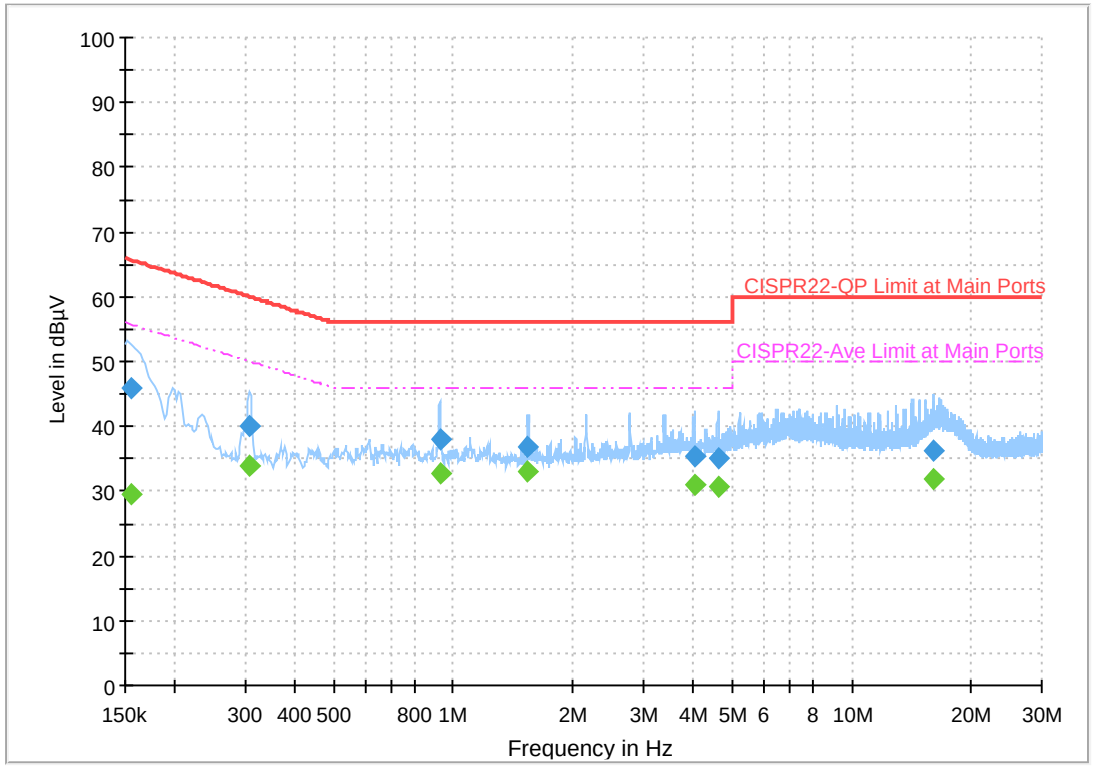
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Blue Lan	**Temperature :**	24~25℃
		Relative Humidity :	51~53%

EUT Information

Report NO :	821216
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



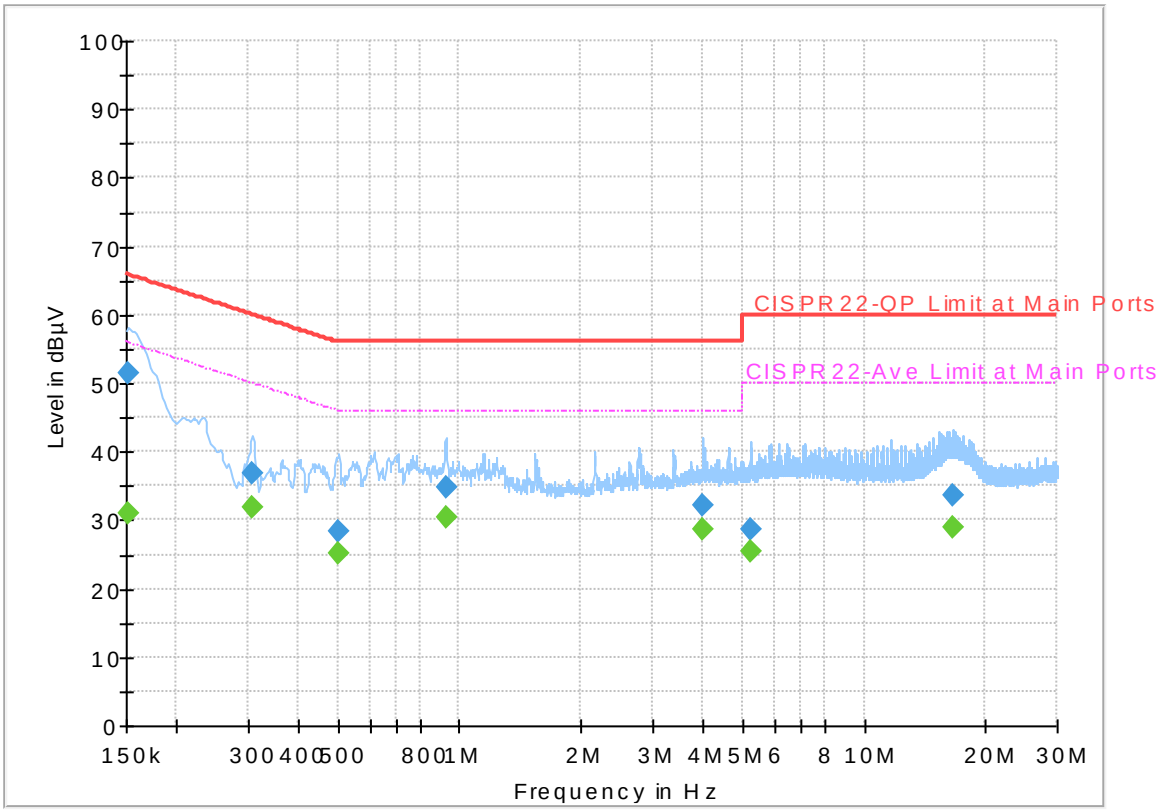
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	29.43	55.75	26.32	L1	OFF	19.5
0.154500	45.87	---	65.75	19.88	L1	OFF	19.5
0.307500	---	33.99	50.04	16.05	L1	OFF	19.5
0.307500	40.00	---	60.04	20.04	L1	OFF	19.5
0.924000	---	32.63	46.00	13.37	L1	OFF	19.5
0.924000	38.07	---	56.00	17.93	L1	OFF	19.5
1.536000	---	33.17	46.00	12.83	L1	OFF	19.6
1.536000	36.70	---	56.00	19.30	L1	OFF	19.6
4.017750	---	31.14	46.00	14.86	L1	OFF	19.6
4.017750	35.28	---	56.00	20.72	L1	OFF	19.6
4.607250	---	30.70	46.00	15.30	L1	OFF	19.6
4.607250	35.17	---	56.00	20.83	L1	OFF	19.6
15.972000	---	31.86	50.00	18.14	L1	OFF	19.8
15.972000	36.38	---	60.00	23.62	L1	OFF	19.8

EUT Information

Report NO :	821216
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	31.01	55.88	24.87	N	OFF	19.5
0.152250	51.36	---	65.88	14.52	N	OFF	19.5
0.307500	---	31.73	50.04	18.31	N	OFF	19.5
0.307500	36.77	---	60.04	23.27	N	OFF	19.5
0.503250	---	25.28	46.00	20.72	N	OFF	19.5
0.503250	28.37	---	56.00	27.63	N	OFF	19.5
0.926250	---	30.48	46.00	15.52	N	OFF	19.5
0.926250	34.71	---	56.00	21.29	N	OFF	19.5
3.995250	---	28.59	46.00	17.41	N	OFF	19.6
3.995250	32.05	---	56.00	23.95	N	OFF	19.6
5.237250	---	25.40	50.00	24.60	N	OFF	19.6
5.237250	28.70	---	60.00	31.30	N	OFF	19.6
16.590750	---	28.94	50.00	21.06	N	OFF	19.8
16.590750	33.77	---	60.00	26.23	N	OFF	19.8

Appendix C. Radiated Spurious Emission

Test Engineer :	Peter Liao and Andy Yang	Temperature :	23~25°C
		Relative Humidity :	57~62%

<Antenna 1>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2384.97	59.98	-14.02	74	41.24	32.16	16.57	29.99	105	288	P	H
		2385.075	49.27	-4.73	54	30.53	32.16	16.57	29.99	105	288	A	H
	*	2412	109.43	-	-	90.61	32.2	16.61	29.99	105	288	P	H
	*	2412	106.16	-	-	87.34	32.2	16.61	29.99	105	288	A	H
													H
													H
		2385.075	60.21	-13.79	74	41.47	32.16	16.57	29.99	114	153	P	V
		2385.285	50.11	-3.89	54	31.37	32.16	16.57	29.99	114	153	A	V
	*	2412	110.66	-	-	91.84	32.2	16.61	29.99	114	153	P	V
	*	2412	107.58	-	-	88.76	32.2	16.61	29.99	114	153	A	V
													V
													V
802.11b CH 06 2437MHz		2370.34	59.28	-14.72	74	40.56	32.16	16.55	29.99	121	297	P	H
		2388.68	47.09	-6.91	54	28.33	32.18	16.57	29.99	121	297	A	H
	*	2437	108.87	-	-	89.97	32.24	16.64	29.98	121	297	P	H
	*	2437	105.69	-	-	86.79	32.24	16.64	29.98	121	297	A	H
		2497.2	59.57	-14.43	74	40.5	32.3	16.73	29.96	121	297	P	H
		2486.77	47.36	-6.64	54	28.33	32.28	16.72	29.97	121	297	A	H
		2363.06	59.03	-14.97	74	40.37	32.13	16.53	30	106	159	P	V
		2387.42	47.36	-6.64	54	28.6	32.18	16.57	29.99	106	159	A	V
	*	2437	111.96	-	-	93.06	32.24	16.64	29.98	106	159	P	V
	*	2437	108.77	-	-	89.87	32.24	16.64	29.98	106	159	A	V
		2495.31	59.86	-14.14	74	40.79	32.3	16.73	29.96	106	159	P	V
		2498.95	47.65	-6.35	54	28.58	32.3	16.73	29.96	106	159	A	V

802.11b CH 11 2462MHz	*	2462	108.28	-	-	89.31	32.26	16.68	29.97	112	302	P	H
	*	2462	105.15	-	-	86.18	32.26	16.68	29.97	112	302	A	H
		2488.28	60.02	-13.98	74	40.97	32.3	16.72	29.97	112	302	P	H
		2488.84	48.07	-5.93	54	29.02	32.3	16.72	29.97	112	302	A	H
													H
													H
	*	2462	111.89	-	-	92.92	32.26	16.68	29.97	100	153	P	V
	*	2462	108.66	-	-	89.69	32.26	16.68	29.97	100	153	A	V
		2498	60.64	-13.36	74	41.57	32.3	16.73	29.96	100	153	P	V
		2488.68	49.37	-4.63	54	30.32	32.3	16.72	29.97	100	153	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 802.11b (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	40.92	-33.08	74	54.72	34	10.74	58.54	100	0	P	H
													H
													H
													H
		4824	41.28	-32.72	74	55.08	34	10.74	58.54	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	42.82	-31.18	74	56.55	34	10.8	58.53	100	0	P	H
		7311	43.96	-30.04	74	54.02	35.76	13.15	58.97	100	0	P	H
													H
													H
		4874	44.24	-29.76	74	57.97	34	10.8	58.53	100	0	P	V
		7311	43.36	-30.64	74	53.42	35.76	13.15	58.97	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	40.91	-33.09	74	54.57	34	10.86	58.52	100	0	P	H
		7386	41.36	-32.64	74	51.36	35.78	13.12	58.9	100	0	P	H
													H
													H
		4924	42.7	-31.3	74	56.36	34	10.86	58.52	100	0	P	V
		7386	41.39	-32.61	74	51.39	35.78	13.12	58.9	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.485	60.02	-13.98	74	41.26	32.18	16.57	29.99	128	272	P	H
		2389.695	50.11	-3.89	54	31.35	32.18	16.57	29.99	128	272	A	H
	*	2412	108.28	-	-	89.46	32.2	16.61	29.99	128	272	P	H
	*	2412	101.01	-	-	82.19	32.2	16.61	29.99	128	272	A	H
													H
													H
		2386.125	60.52	-13.48	74	41.76	32.18	16.57	29.99	100	207	P	V
		2390	50.11	-3.89	54	31.34	32.18	16.58	29.99	100	207	A	V
	*	2412	109.35	-	-	90.53	32.2	16.61	29.99	100	207	P	V
	*	2412	101.53	-	-	82.71	32.2	16.61	29.99	100	207	A	V
													V
													V
802.11g CH 06 2437MHz		2364.18	59.27	-14.73	74	40.6	32.13	16.54	30	101	287	P	H
		2382.8	48.61	-5.39	54	29.88	32.16	16.56	29.99	101	287	A	H
	*	2437	109.3	-	-	90.4	32.24	16.64	29.98	101	287	P	H
	*	2437	101.83	-	-	82.93	32.24	16.64	29.98	101	287	A	H
		2495.87	59.88	-14.12	74	40.81	32.3	16.73	29.96	101	287	P	H
		2498.39	49	-5	54	29.93	32.3	16.73	29.96	101	287	A	H
		2388.4	59.41	-14.59	74	40.65	32.18	16.57	29.99	102	203	P	V
		2389.38	48.87	-5.13	54	30.11	32.18	16.57	29.99	102	203	A	V
	*	2437	109.67	-	-	90.77	32.24	16.64	29.98	102	203	P	V
	*	2437	102.3	-	-	83.4	32.24	16.64	29.98	102	203	A	V
		2494.33	60.51	-13.49	74	41.44	32.3	16.73	29.96	102	203	P	V
		2483.69	49.31	-4.69	54	30.29	32.28	16.71	29.97	102	203	A	V

802.11g CH 11 2462MHz	*	2462	108.42	-	-	89.45	32.26	16.68	29.97	138	290	P	H
	*	2462	100.78	-	-	81.81	32.26	16.68	29.97	138	290	A	H
		2486.96	60.9	-13.1	74	41.87	32.28	16.72	29.97	138	290	P	H
		2483.52	50.98	-3.02	54	31.96	32.28	16.71	29.97	138	290	A	H
													H
													H
	*	2462	111.88	-	-	92.91	32.26	16.68	29.97	156	163	P	V
	*	2462	104.2	-	-	85.23	32.26	16.68	29.97	156	163	A	V
		2484.08	61.45	-12.55	74	42.43	32.28	16.71	29.97	156	163	P	V
		2483.52	51.79	-2.21	54	32.77	32.28	16.71	29.97	156	163	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	39.69	-34.31	74	53.49	34	10.74	58.54	100	0	P	H
													H
													H
													H
		4824	40.41	-33.59	74	54.21	34	10.74	58.54	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	40.31	-33.69	74	54.04	34	10.8	58.53	100	0	P	H
		7311	41.46	-32.54	74	51.52	35.76	13.15	58.97	100	0	P	H
													H
													H
		4874	40.05	-33.95	74	53.78	34	10.8	58.53	100	0	P	V
		7311	42.36	-31.64	74	52.42	35.76	13.15	58.97	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	40.58	-33.42	74	54.24	34	10.86	58.52	100	0	P	H
		7386	41.76	-32.24	74	51.76	35.78	13.12	58.9	100	0	P	H
													H
													H
		4924	40.65	-33.35	74	54.31	34	10.86	58.52	100	0	P	V
		7386	41.78	-32.22	74	51.78	35.78	13.12	58.9	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

<Antenna 2>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2382.45	61.72	-12.28	74	42.99	32.16	16.56	29.99	268	74	P	H
		2385.285	52.72	-1.28	54	33.98	32.16	16.57	29.99	268	74	A	H
	*	2412	115.11	-	-	96.29	32.2	16.61	29.99	268	74	P	H
	*	2412	111.81	-	-	92.99	32.2	16.61	29.99	268	74	A	H
													H
													H
		2381.505	59.15	-14.85	74	40.42	32.16	16.56	29.99	400	181	P	V
		2386.755	48.06	-5.94	54	29.3	32.18	16.57	29.99	400	181	A	V
	*	2412	110.06	-	-	91.24	32.2	16.61	29.99	400	181	P	V
	*	2412	106.9	-	-	88.08	32.2	16.61	29.99	400	181	A	V
													V
													V
802.11b CH 06 2437MHz		2381.12	60.34	-13.66	74	41.61	32.16	16.56	29.99	238	84	P	H
		2388.12	48.59	-5.41	54	29.83	32.18	16.57	29.99	238	84	A	H
	*	2437	114.24	-	-	95.34	32.24	16.64	29.98	238	84	P	H
	*	2437	111.03	-	-	92.13	32.24	16.64	29.98	238	84	A	H
		2498.88	60.61	-13.39	74	41.54	32.3	16.73	29.96	238	84	P	H
		2485.86	48.28	-5.72	54	29.26	32.28	16.71	29.97	238	84	A	H
		2381.26	59.13	-14.87	74	40.4	32.16	16.56	29.99	351	166	P	V
		2361.38	47.11	-6.89	54	28.45	32.13	16.53	30	351	166	A	V
	*	2437	108.83	-	-	89.93	32.24	16.64	29.98	351	166	P	V
	*	2437	105.7	-	-	86.8	32.24	16.64	29.98	351	166	A	V
		2493.21	59.42	-14.58	74	40.35	32.3	16.73	29.96	351	166	P	V
		2495.45	47.49	-6.51	54	28.42	32.3	16.73	29.96	351	166	A	V

802.11b CH 11 2462MHz	*	2462	114.69	-	-	95.72	32.26	16.68	29.97	204	86	P	H
	*	2462	110.91	-	-	91.94	32.26	16.68	29.97	204	86	P	H
		2489.48	60.88	-13.12	74	41.83	32.3	16.72	29.97	204	86	P	H
		2488.8	50.69	-3.31	54	31.64	32.3	16.72	29.97	204	86	A	H
													H
													H
	*	2462	108.69	-	-	89.72	32.26	16.68	29.97	338	184	P	V
	*	2462	105.56	-	-	86.59	32.26	16.68	29.97	338	184	A	V
		2498.48	59.98	-14.02	74	40.91	32.3	16.73	29.96	338	184	P	V
		2488.96	48.06	-5.94	54	29.01	32.3	16.72	29.97	338	184	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	40.84	-33.16	74	54.64	34	10.74	58.54	100	0	P	H
													H
													H
													H
		4824	40.48	-33.52	74	54.28	34	10.74	58.54	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	41.64	-32.36	74	55.37	34	10.8	58.53	100	0	P	H
		7311	42.66	-31.34	74	52.72	35.76	13.15	58.97	100	0	P	H
													H
													H
		4874	41.54	-32.46	74	55.27	34	10.8	58.53	100	0	P	V
		7311	42.97	-31.03	74	53.03	35.76	13.15	58.97	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	41.42	-32.58	74	55.08	34	10.86	58.52	100	0	P	H
		7386	41.82	-32.18	74	51.82	35.78	13.12	58.9	100	0	P	H
													H
													H
		4924	41.12	-32.88	74	54.78	34	10.86	58.52	100	0	P	V
		7386	41.23	-32.77	74	51.23	35.78	13.12	58.9	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.275	63.04	-10.96	74	44.28	32.18	16.57	29.99	268	73	P	H
		2390	52.91	-1.09	54	34.14	32.18	16.58	29.99	268	73	A	H
	*	2412	112.48	-	-	93.66	32.2	16.61	29.99	268	73	P	H
	*	2412	104.85	-	-	86.03	32.2	16.61	29.99	268	73	A	H
													H
													H
		2389.17	59.96	-14.04	74	41.2	32.18	16.57	29.99	400	183	P	V
		2390	48.64	-5.36	54	29.87	32.18	16.58	29.99	400	183	A	V
	*	2412	107.64	-	-	88.82	32.2	16.61	29.99	400	183	P	V
	*	2412	99.84	-	-	81.02	32.2	16.61	29.99	400	183	A	V
													V
													V
802.11g CH 06 2437MHz		2362.78	60.24	-13.76	74	41.58	32.13	16.53	30	260	82	P	H
		2389.24	49.21	-4.79	54	30.45	32.18	16.57	29.99	260	82	A	H
	*	2437	114.67	-	-	95.77	32.24	16.64	29.98	260	82	P	H
	*	2437	106.84	-	-	87.94	32.24	16.64	29.98	260	82	A	H
		2497.41	60.59	-13.41	74	41.52	32.3	16.73	29.96	260	82	P	H
		2486.07	48.63	-5.37	54	29.61	32.28	16.71	29.97	260	82	A	H
		2364.32	59.12	-14.88	74	40.44	32.13	16.54	29.99	344	170	P	V
		2386.3	47.43	-6.57	54	28.67	32.18	16.57	29.99	344	170	A	V
	*	2437	108.74	-	-	89.84	32.24	16.64	29.98	344	170	P	V
	*	2437	101.05	-	-	82.15	32.24	16.64	29.98	344	170	A	V
		2492.93	60.18	-13.82	74	41.12	32.3	16.72	29.96	344	170	P	V
		2493.91	47.8	-6.2	54	28.73	32.3	16.73	29.96	344	170	A	V

802.11g CH 11 2462MHz	*	2462	113.05	-	-	94.08	32.26	16.68	29.97	259	82	P	H
	*	2462	105.3	-	-	86.33	32.26	16.68	29.97	259	82	A	H
		2483.92	64.17	-9.83	74	45.15	32.28	16.71	29.97	259	82	P	H
		2483.6	52.92	-1.08	54	33.9	32.28	16.71	29.97	259	82	A	H
													H
													H
	*	2462	106.61	-	-	87.64	32.26	16.68	29.97	302	166	P	V
	*	2462	98.98	-	-	80.01	32.26	16.68	29.97	302	166	A	V
		2484.56	60.27	-13.73	74	41.25	32.28	16.71	29.97	302	166	P	V
		2483.6	49.67	-4.33	54	30.65	32.28	16.71	29.97	302	166	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	41.05	-32.95	74	54.85	34	10.74	58.54	100	0	P	H
													H
													H
													H
		4824	40.26	-33.74	74	54.06	34	10.74	58.54	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	40.79	-33.21	74	54.52	34	10.8	58.53	100	0	P	H
		7311	41.45	-32.55	74	51.51	35.76	13.15	58.97	100	0	P	H
													H
													H
		4874	40.38	-33.62	74	54.11	34	10.8	58.53	100	0	P	V
		7311	41.52	-32.48	74	51.58	35.76	13.15	58.97	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	39.83	-34.17	74	53.49	34	10.86	58.52	100	0	P	H
		7386	40.85	-33.15	74	50.85	35.78	13.12	58.9	100	0	P	H
													H
													H
		4924	40.39	-33.61	74	54.05	34	10.86	58.52	100	0	P	V
		7386	41.19	-32.81	74	51.19	35.78	13.12	58.9	100	0	P	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

<Antenna 1+2>

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2386.44	59.02	-14.98	74	40.26	32.18	16.57	29.99	100	272	P	H
		2389.485	49.45	-4.55	54	30.69	32.18	16.57	29.99	100	272	A	H
	*	2412	107.71	-	-	88.89	32.2	16.61	29.99	100	272	P	H
	*	2412	99.73	-	-	80.91	32.2	16.61	29.99	100	272	A	H
802.11n													H
HT20													H
CH 01		2389.8	62.78	-11.22	74	44.02	32.18	16.57	29.99	100	174	P	V
2412MHz		2390	52.28	-1.72	54	33.51	32.18	16.58	29.99	100	174	A	V
	*	2412	110.73	-	-	91.91	32.2	16.61	29.99	100	174	P	V
	*	2412	102.67	-	-	83.85	32.2	16.61	29.99	100	174	A	V
													V
													V
		2371.74	59.51	-14.49	74	40.79	32.16	16.55	29.99	121	300	P	H
		2388.96	48.2	-5.8	54	29.44	32.18	16.57	29.99	121	300	A	H
	*	2437	109.44	-	-	90.54	32.24	16.64	29.98	121	300	P	H
	*	2437	102.07	-	-	83.17	32.24	16.64	29.98	121	300	A	H
802.11n		2488.73	59.26	-14.74	74	40.21	32.3	16.72	29.97	121	300	P	H
HT20		2496.5	48.52	-5.48	54	29.45	32.3	16.73	29.96	121	300	A	H
CH 06		2347.52	59.81	-14.19	74	41.19	32.11	16.51	30	101	175	P	V
2437MHz		2389.24	49.2	-4.8	54	30.44	32.18	16.57	29.99	101	175	A	V
	*	2437	115.43	-	-	96.53	32.24	16.64	29.98	101	175	P	V
	*	2437	107.5	-	-	88.6	32.24	16.64	29.98	101	175	A	V
		2499.51	59.88	-14.12	74	40.81	32.3	16.73	29.96	101	175	P	V
		2486.28	49.65	-4.35	54	30.62	32.28	16.72	29.97	101	175	P	V

	*	2462	107.09	-	-	88.12	32.26	16.68	29.97	275	81	P	H
	*	2462	99.44	-	-	80.47	32.26	16.68	29.97	275	81	A	H
		2485.6	60.8	-13.2	74	41.78	32.28	16.71	29.97	275	81	P	H
		2483.6	49.7	-4.3	54	30.68	32.28	16.71	29.97	275	81	A	H
802.11n													H
HT20													H
CH 11	*	2462	112.9	-	-	93.93	32.26	16.68	29.97	100	177	P	V
2462MHz	*	2462	104.96	-	-	85.99	32.26	16.68	29.97	100	177	A	V
		2484.04	61.72	-12.28	74	42.7	32.28	16.71	29.97	100	177	P	V
		2483.5	52.48	-1.52	54	33.46	32.28	16.71	29.97	100	177	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 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4824	40.64	-33.36	74	54.44	34	10.74	58.54	100	0	P	H
													H
802.11n													H
HT20													H
CH 01		4824	40.74	-33.26	74	54.54	34	10.74	58.54	100	0	P	V
2412MHz													V
													V
													V
		4874	42.57	-31.43	74	56.3	34	10.8	58.53	100	0	P	H
		7311	43.71	-30.29	74	53.77	35.76	13.15	58.97	100	0	P	H
802.11n													H
HT20													H
CH 06		4874	41.37	-32.63	74	55.1	34	10.8	58.53	100	0	P	V
2437MHz		7311	43.18	-30.82	74	53.24	35.76	13.15	58.97	100	0	P	V
													V
													V
		4924	40.64	-33.36	74	54.3	34	10.86	58.52	100	0	P	H
		7386	41.36	-32.64	74	51.36	35.78	13.12	58.9	100	0	P	H
802.11n													H
HT20													H
CH 11		4924	40.59	-33.41	74	54.25	34	10.86	58.52	100	0	P	V
2462MHz		7386	41.42	-32.58	74	51.42	35.78	13.12	58.9	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2389.8	60.33	-13.67	74	41.57	32.18	16.57	29.99	100	273	P	H
		2389.38	50.89	-3.11	54	32.13	32.18	16.57	29.99	100	273	A	H
	*	2422	100.96	-	-	82.1	32.22	16.62	29.98	100	273	P	H
	*	2422	93.54	-	-	74.68	32.22	16.62	29.98	100	273	A	H
802.11n		2499.02	60.14	-13.86	74	41.07	32.3	16.73	29.96	100	273	P	H
HT40		2494.68	49.42	-4.58	54	30.35	32.3	16.73	29.96	100	273	A	H
CH 03		2381.96	61.97	-12.03	74	43.24	32.16	16.56	29.99	106	175	P	V
2422MHz		2383.92	52.94	-1.06	54	34.2	32.16	16.57	29.99	106	175	A	V
	*	2422	106.63	-	-	87.77	32.22	16.62	29.98	106	175	P	V
	*	2422	99.11	-	-	80.25	32.22	16.62	29.98	106	175	A	V
		2486.21	59.92	-14.08	74	40.89	32.28	16.72	29.97	106	175	P	V
		2496.01	49.7	-4.3	54	30.63	32.3	16.73	29.96	106	175	A	V
		2379.44	58.84	-15.16	74	40.11	32.16	16.56	29.99	264	292	P	H
		2383.78	49.6	-4.4	54	30.86	32.16	16.57	29.99	264	292	A	H
	*	2437	105	-	-	86.1	32.24	16.64	29.98	264	292	P	H
	*	2437	96.68	-	-	77.78	32.24	16.64	29.98	264	292	A	H
802.11n		2494.26	59.58	-14.42	74	40.51	32.3	16.73	29.96	264	292	P	H
HT40		2483.5	49.73	-4.27	54	30.71	32.28	16.71	29.97	264	292	P	H
CH 06		2388.12	62.41	-11.59	74	43.65	32.18	16.57	29.99	100	176	P	V
2437MHz		2389.94	52.82	-1.18	54	34.06	32.18	16.57	29.99	100	176	A	V
	*	2437	107.92	-	-	89.02	32.24	16.64	29.98	100	176	P	V
	*	2437	100.28	-	-	81.38	32.24	16.64	29.98	100	176	A	V
		2484.25	62.01	-11.99	74	42.99	32.28	16.71	29.97	100	176	P	V
		2483.69	52.23	-1.77	54	33.21	32.28	16.71	29.97	100	176	A	V

		2377.62	59	-15	74	40.27	32.16	16.56	29.99	253	292	P	H
		2373.7	49.1	-4.9	54	30.38	32.16	16.55	29.99	253	292	A	H
	*	2452	103.33	-	-	84.39	32.24	16.67	29.97	253	292	P	H
	*	2452	95.53	-	-	76.59	32.24	16.67	29.97	253	292	A	H
802.11n		2490.13	61.77	-12.23	74	42.72	32.3	16.72	29.97	253	292	P	H
HT40		2487.12	50.9	-3.1	54	31.87	32.28	16.72	29.97	253	292	A	H
CH 09		2353.82	59.83	-14.17	74	41.18	32.13	16.52	30	101	195	P	V
2452MHz		2389.24	49.5	-4.5	54	30.74	32.18	16.57	29.99	101	195	A	V
	*	2452	107.67	-	-	88.73	32.24	16.67	29.97	101	195	P	V
	*	2452	100.07	-	-	81.13	32.24	16.67	29.97	101	195	A	V
		2484.81	61.64	-12.36	74	42.62	32.28	16.71	29.97	101	195	P	V
		2483.69	52.83	-1.17	54	33.81	32.28	16.71	29.97	101	195	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4844	40.7	-33.3	74	54.46	34	10.77	58.53	100	0	P	H
		7266	40.79	-33.21	74	50.88	35.76	13.16	59.01	100	0	P	H
802.11n													H
HT40													H
CH 03		4844	39.61	-34.39	74	53.37	34	10.77	58.53	100	0	P	V
2422MHz		7266	41.41	-32.59	74	51.5	35.76	13.16	59.01	100	0	P	V
													V
													V
		4874	40.51	-33.49	74	54.24	34	10.8	58.53	100	0	P	H
		7311	42	-32	74	52.06	35.76	13.15	58.97	100	0	P	H
802.11n													H
HT40													H
CH 06		4874	40.64	-33.36	74	54.37	34	10.8	58.53	100	0	P	V
2437MHz		7311	41.61	-32.39	74	51.67	35.76	13.15	58.97	100	0	P	V
													V
													V
		4904	40.44	-33.56	74	54.12	34	10.84	58.52	100	0	P	H
		7356	41.89	-32.11	74	51.92	35.77	13.13	58.93	100	0	P	H
802.11n													H
HT40													H
CH 09		4904	40.06	-33.94	74	53.74	34	10.84	58.52	100	0	P	V
2452MHz		7356	41.24	-32.76	74	51.27	35.77	13.13	58.93	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		31.08	23.28	-16.72	40	29.34	25.62	0.77	32.45	-	-	P	H
		193.35	37.38	-6.12	43.5	52.13	15.68	1.98	32.41	-	-	P	H
		266.52	39.86	-6.14	46	50.47	19.52	2.31	32.44	100	87	QP	H
	!	266.52	46.07	0.07	46	56.68	19.52	2.31	32.44	100	87	P	H
		291.09	40.04	-5.96	46	50.48	19.61	2.41	32.46	100	80	QP	H
	!	291.09	46.83	0.83	46	57.27	19.61	2.41	32.46	100	80	P	H
		315.4	39.99	-6.01	46	49.8	20.16	2.5	32.47	-	-	P	H
		813.8	32.19	-13.81	46	32.23	28.26	4.04	32.34	-	-	P	H
													H
													H
2.4GHz													H
802.11n													H
HT40		38.64	31.37	-8.63	40	41.99	20.98	0.85	32.45	100	0	P	V
LF		194.16	26.9	-16.6	43.5	41.59	15.74	1.98	32.41	-	-	P	V
		266.25	34.42	-11.58	46	45.04	19.52	2.3	32.44	-	-	P	V
		317.5	29.95	-16.05	46	39.69	20.22	2.51	32.47	-	-	P	V
		834.8	31.64	-14.36	46	31.27	28.52	4.08	32.23	-	-	P	V
		983.9	31.58	-22.42	54	28.26	29.97	4.45	31.1	-	-	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	Path	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. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Peter Liao and Andy Yang	**Temperature :**	23~25°C
		Relative Humidity :	57~62%

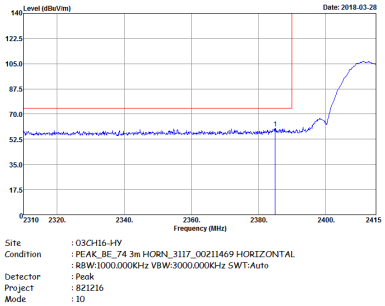
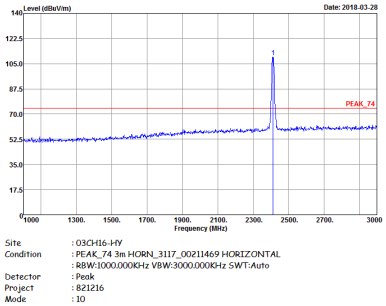
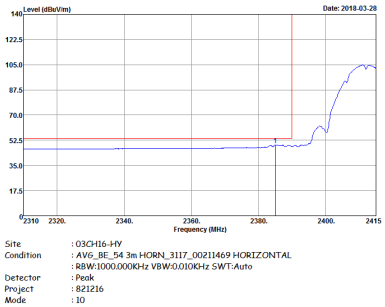
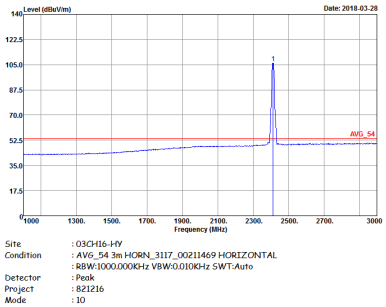
Note symbol

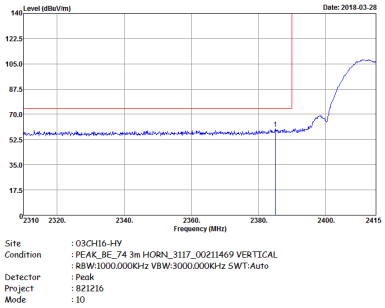
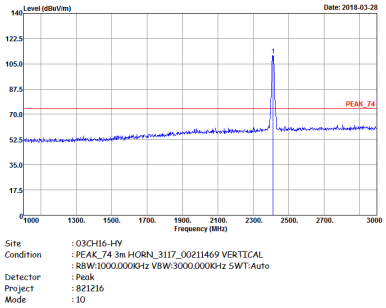
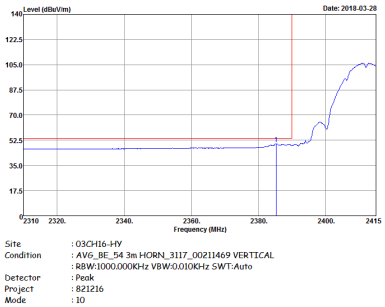
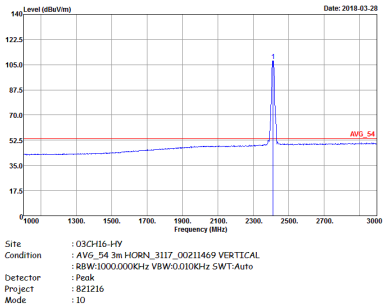
-L	**Low channel location**
-R	**High channel location**

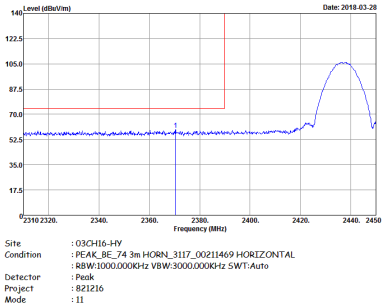
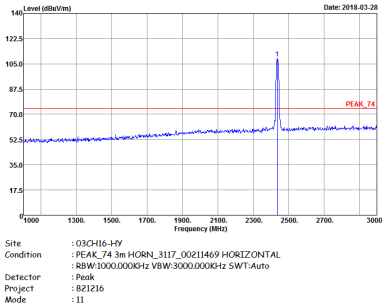
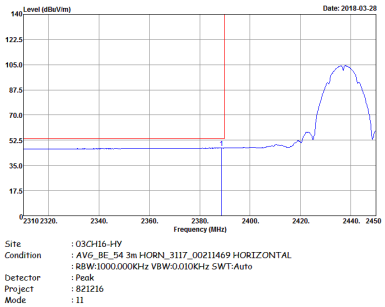
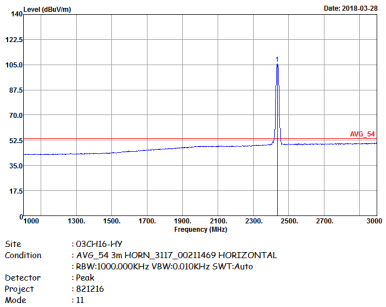
<Antenna 1>

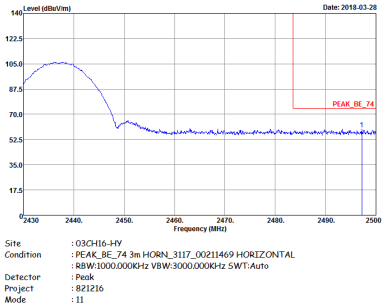
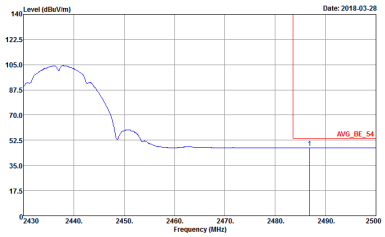
2.4GHz 2400~2483.5MHz

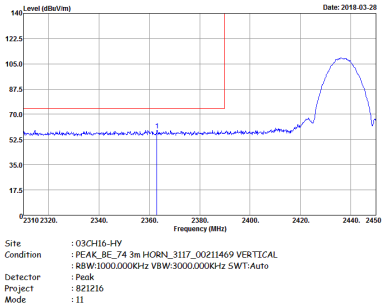
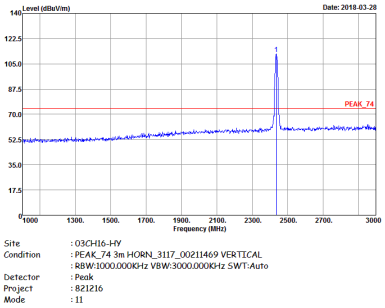
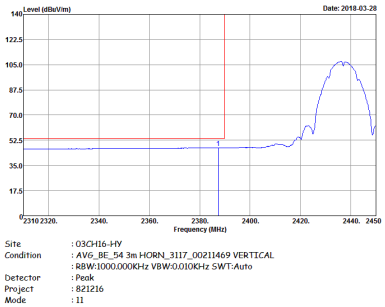
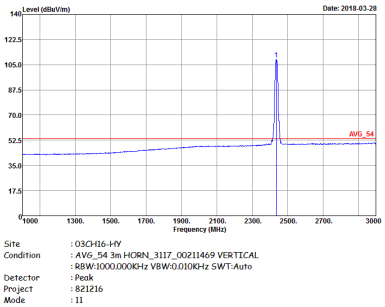
WIFI 802.11b (Band Edge @ 3m)

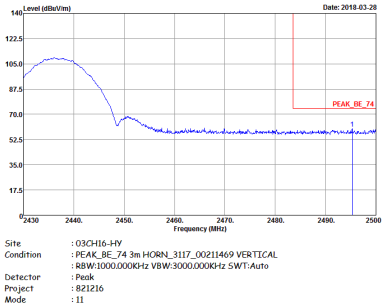
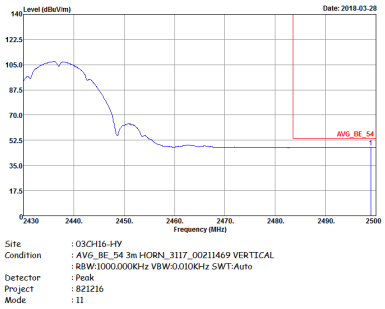
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

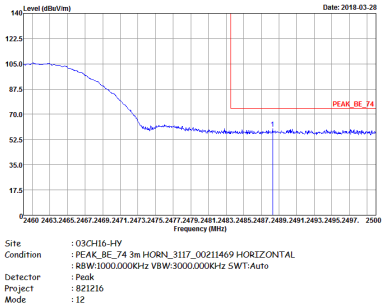
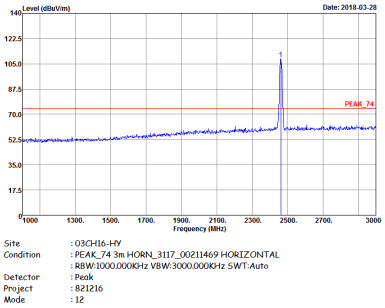
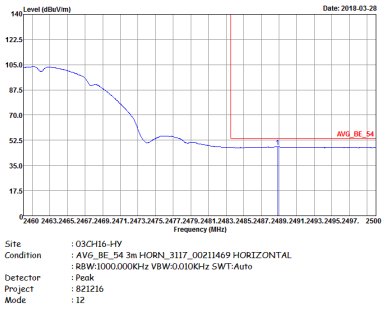
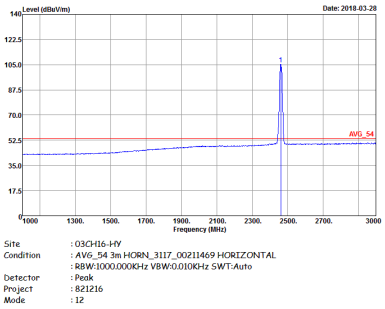
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak		
Avg.		

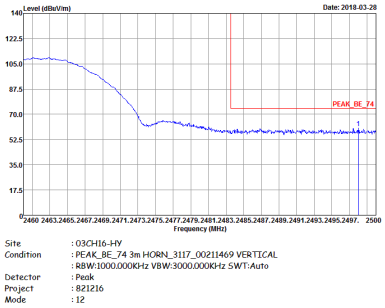
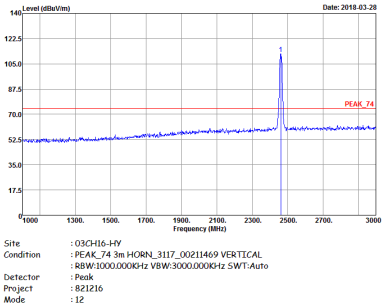
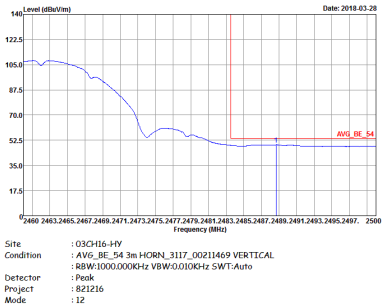
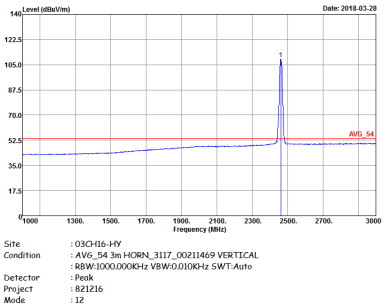
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 11	Left blank
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 11	Left blank

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

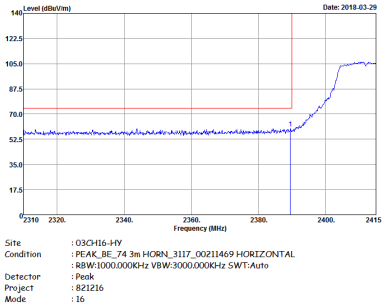
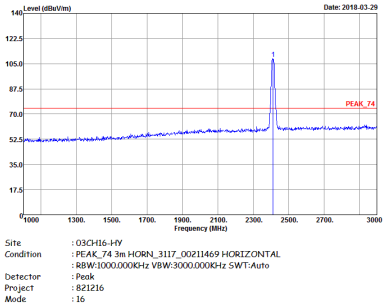
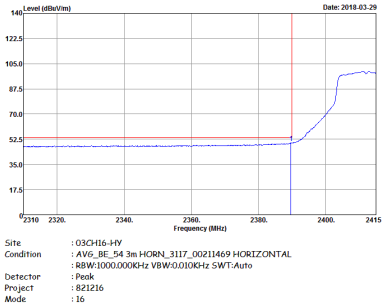
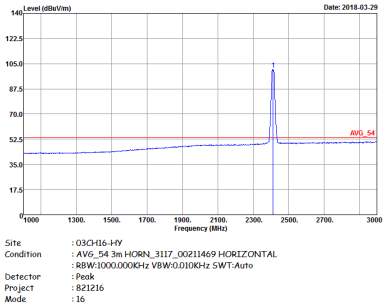
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

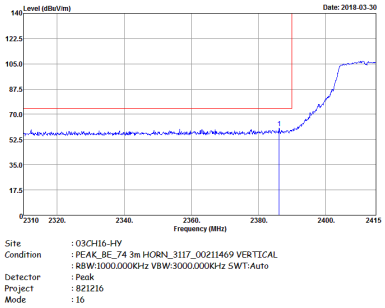
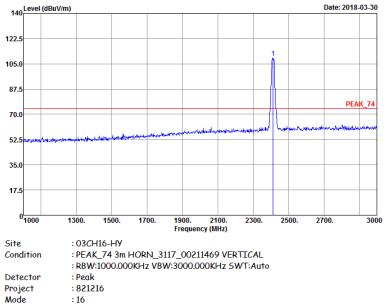
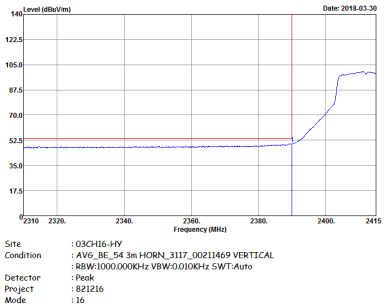
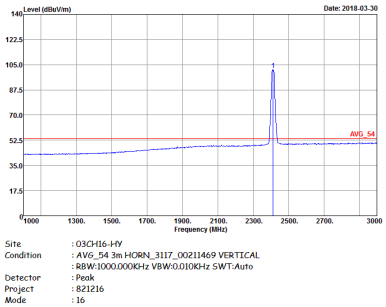
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 12	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 12
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 12	 Site : 03CH16-HY Condition : AVG_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 12

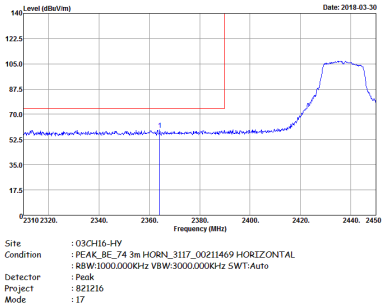
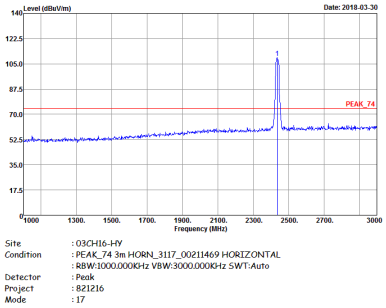
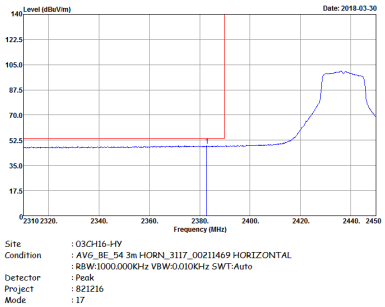
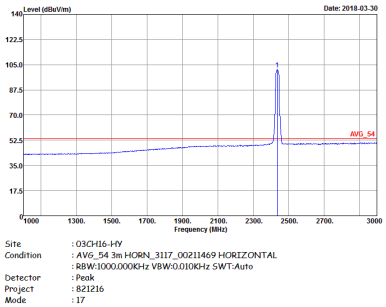
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak		
Avg.		

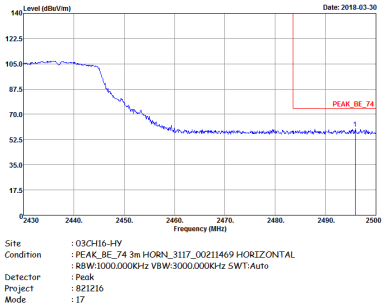
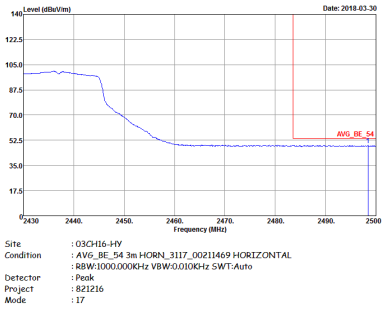
2.4GHz 2400~2483.5MHz

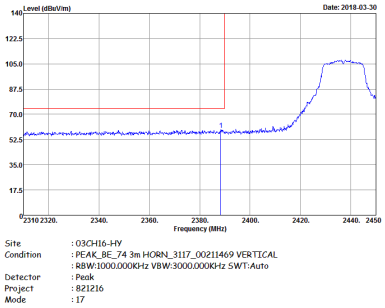
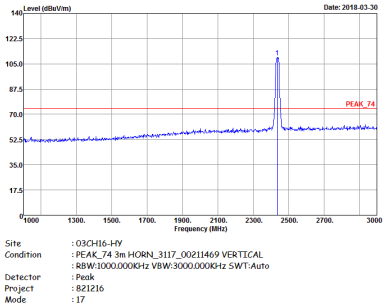
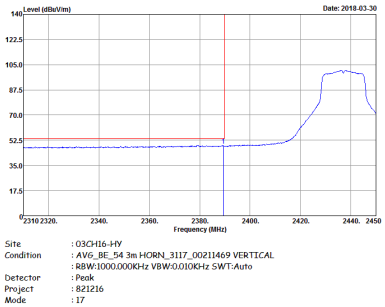
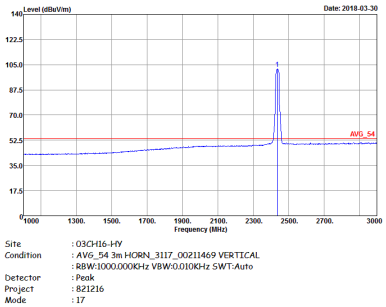
WIFI 802.11g (Band Edge @ 3m)

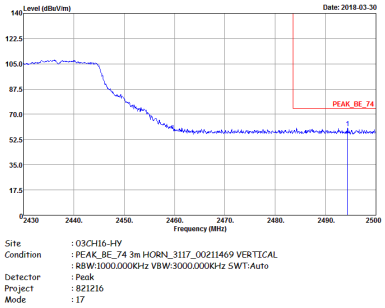
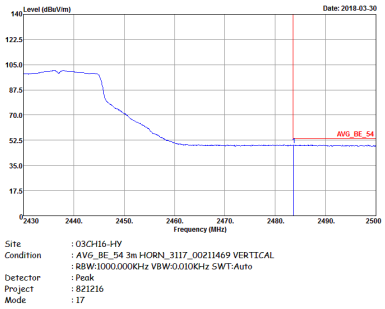
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

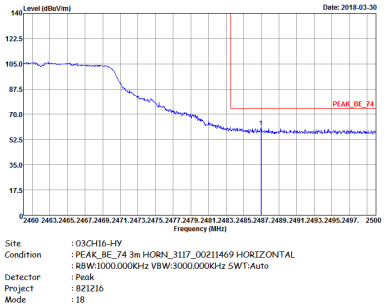
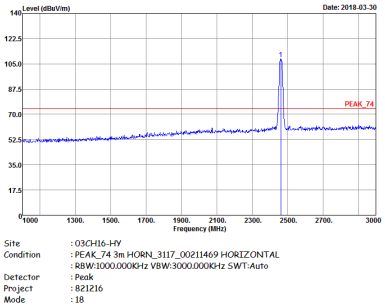
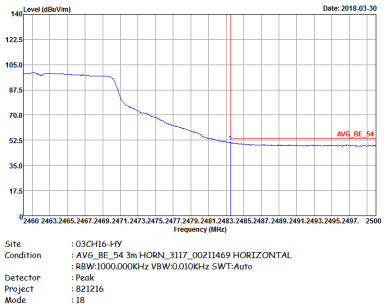
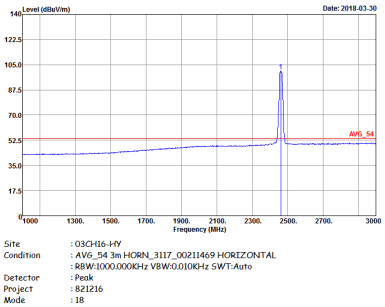
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak		
Avg.		

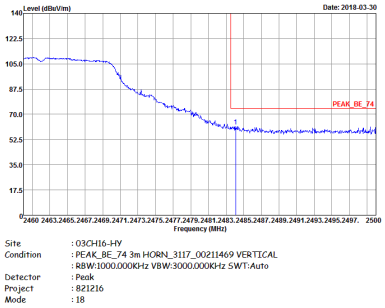
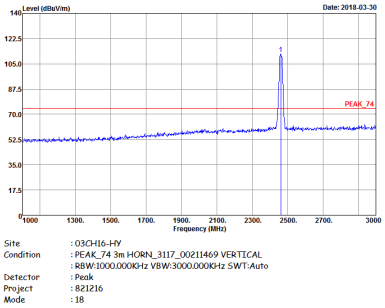
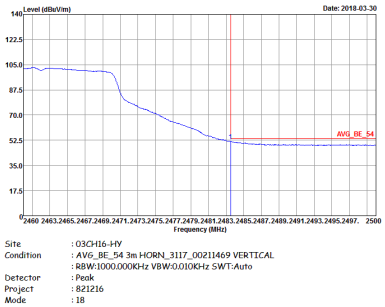
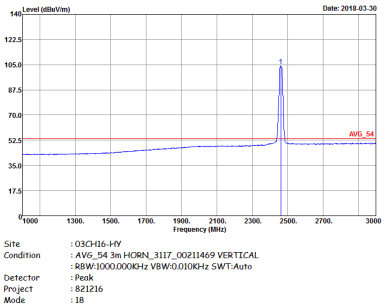
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		

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		
Avg.		

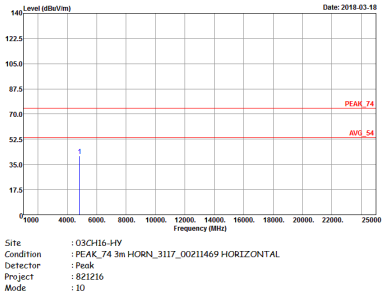
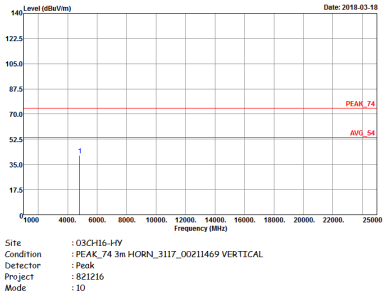
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 17	Left Blank
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 17	Left Blank

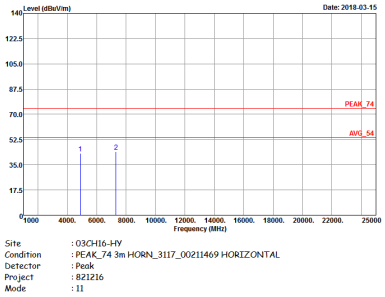
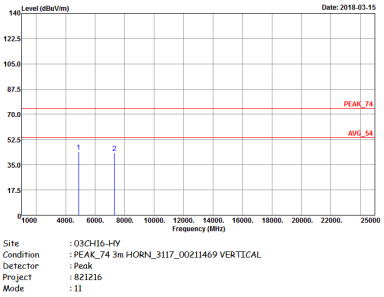
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 18	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 18
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 18	 Site : 03CH16-HY Condition : AVG_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 18

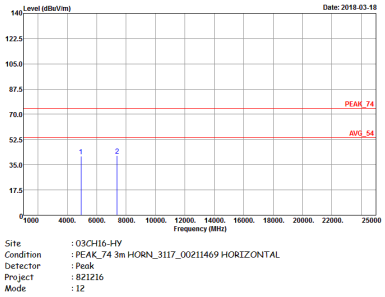
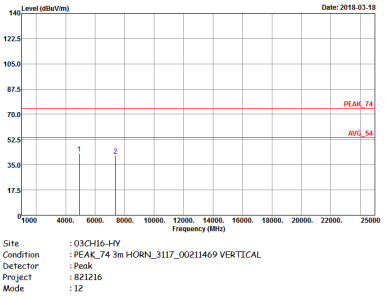
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 18	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 18
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 18	 Site : 03CH16-HY Condition : AVG_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 18

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

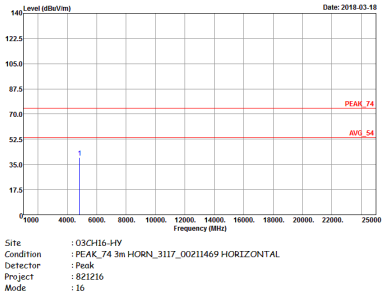
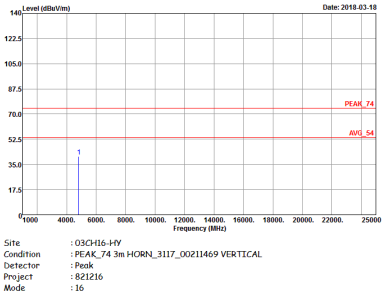
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

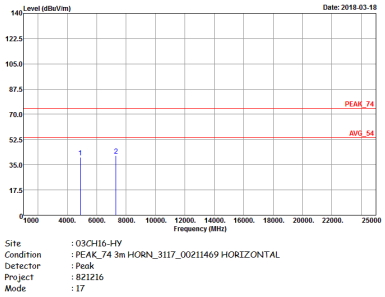
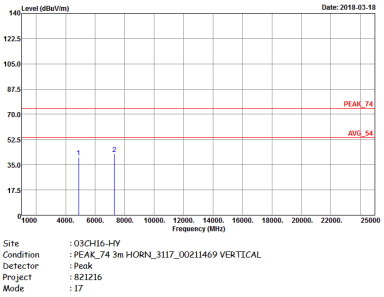
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL Detector : Peak Project : 821216 Mode : 11	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL Detector : Peak Project : 821216 Mode : 11

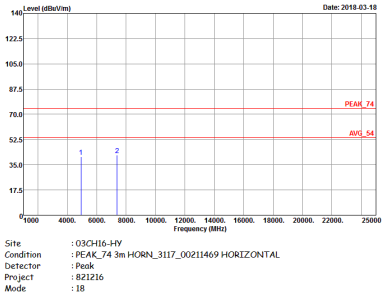
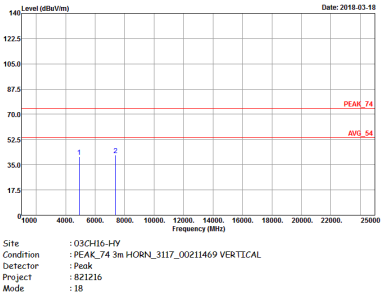
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL Detector : Peak Project : 821216 Mode : 12	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL Detector : Peak Project : 821216 Mode : 12

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.		

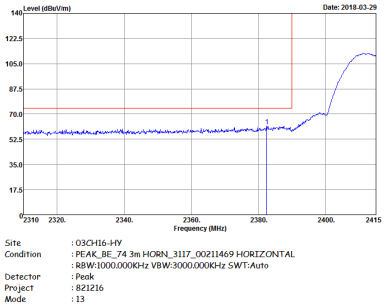
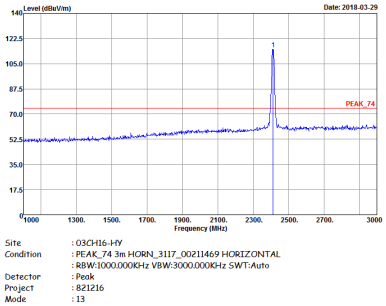
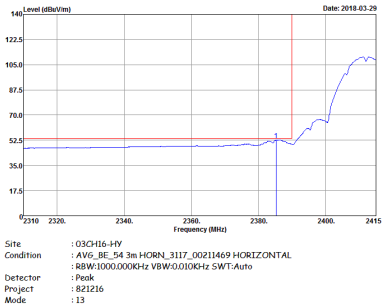
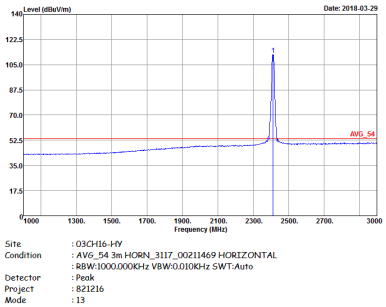
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL Detector : Peak Project : 821216 Mode : 17	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL Detector : Peak Project : 821216 Mode : 17

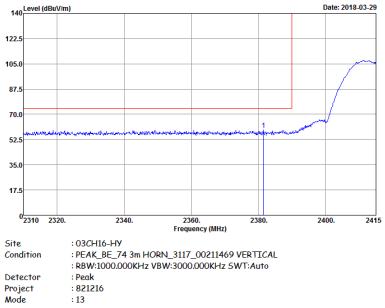
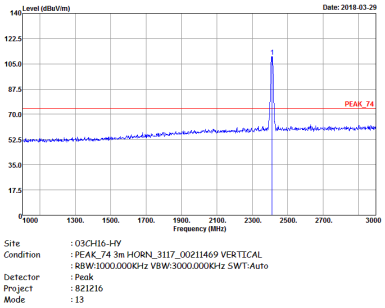
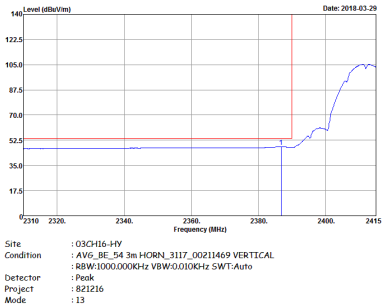
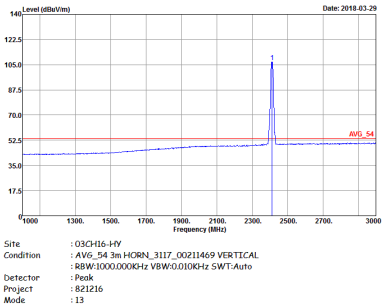
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL Detector : Peak Project : 821216 Mode : 18	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL Detector : Peak Project : 821216 Mode : 18

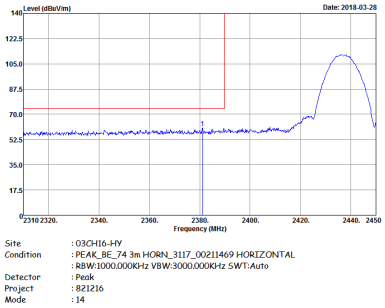
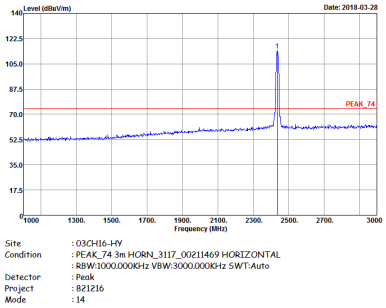
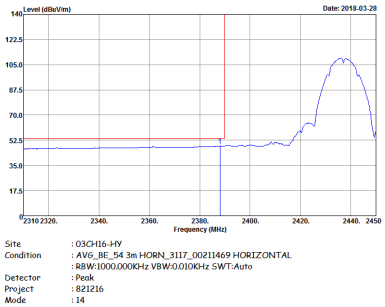
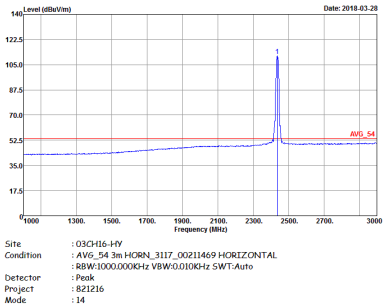
<Antenna 2>

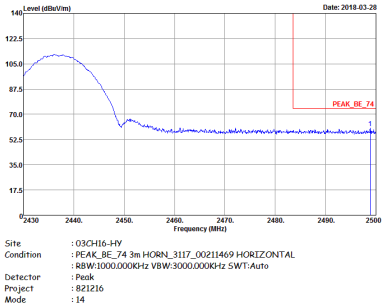
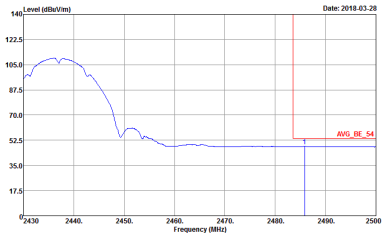
2.4GHz 2400~2483.5MHz

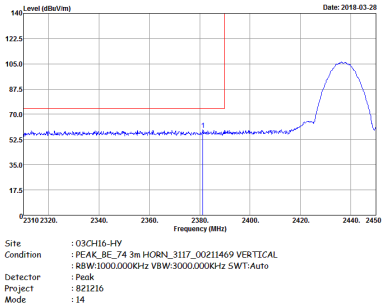
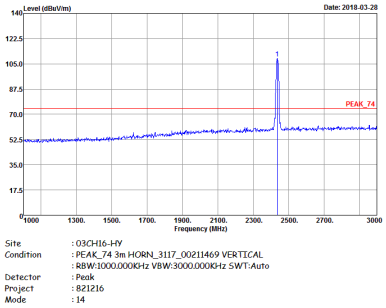
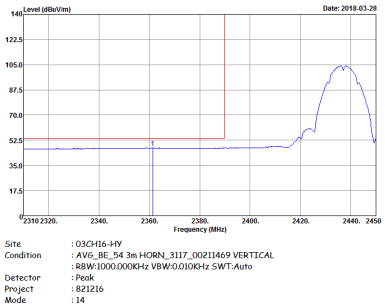
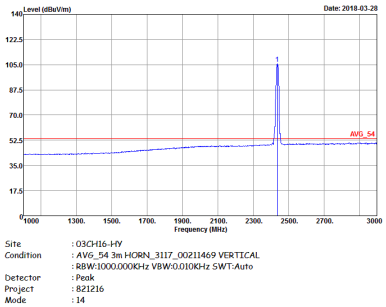
WIFI 802.11b (Band Edge @ 3m)

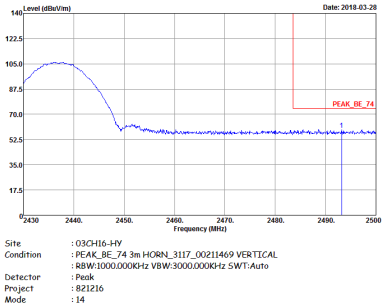
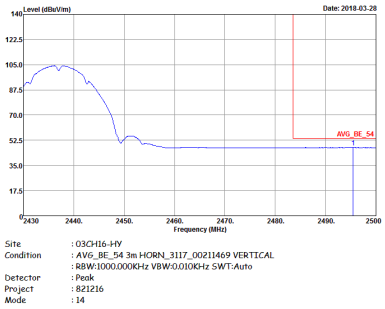
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
2	Horizontal	Fundamental
Peak		
Avg.		

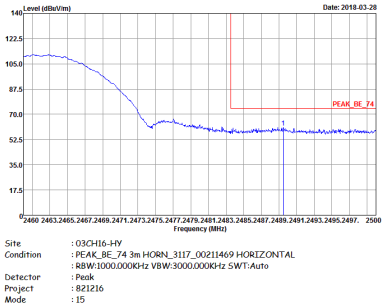
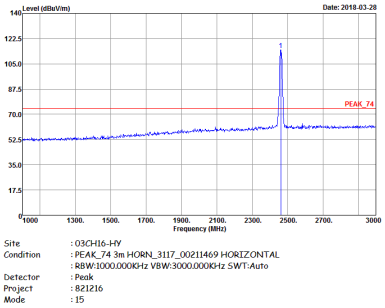
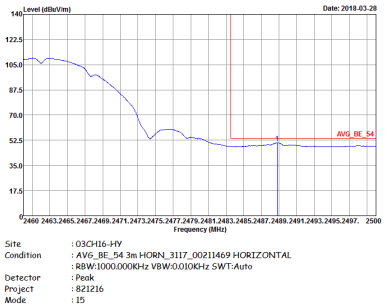
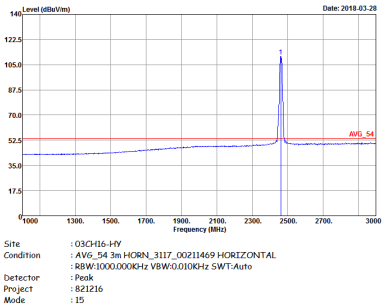
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
2	Vertical	Fundamental
Peak		
Avg.		

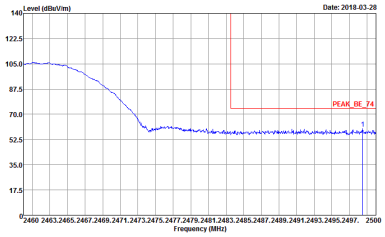
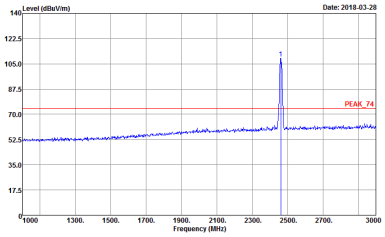
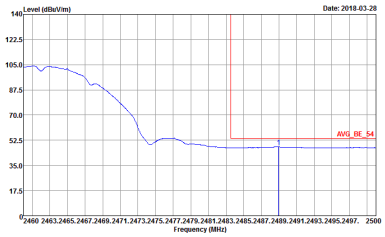
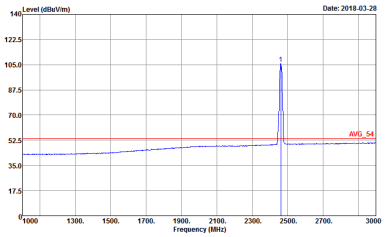
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 14	Left blank
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 14	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		

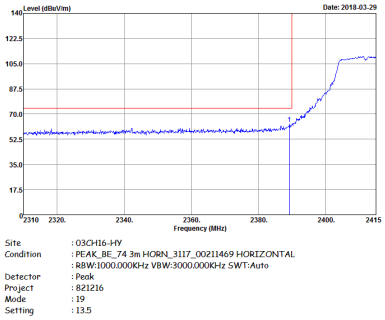
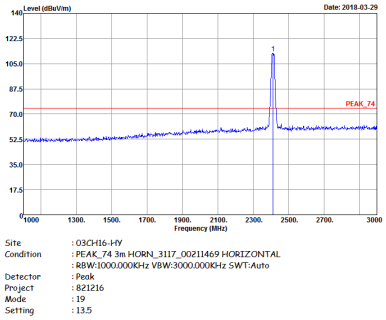
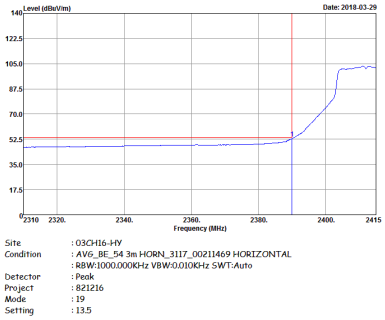
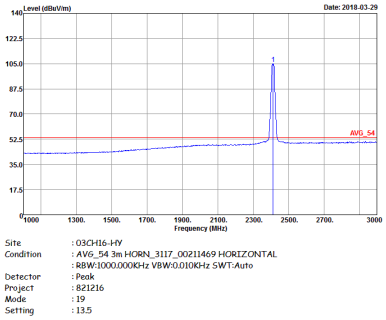
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

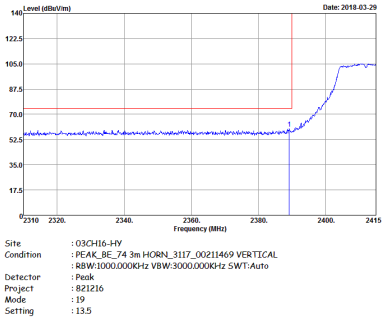
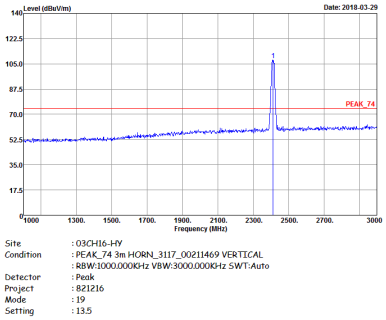
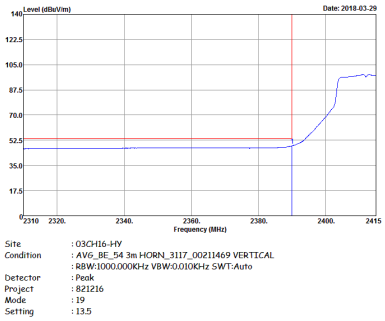
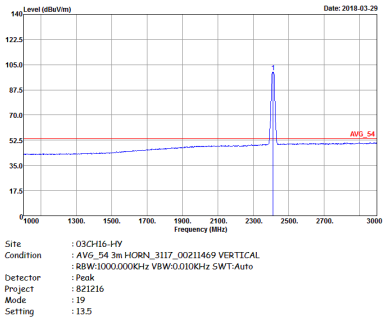
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 15	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 15
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 15	 Site : 03CH16-HY Condition : AVG_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 15

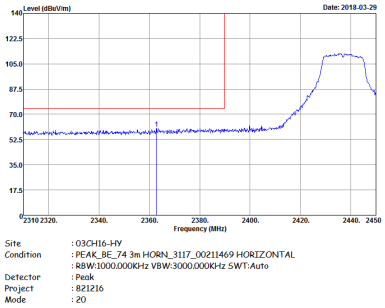
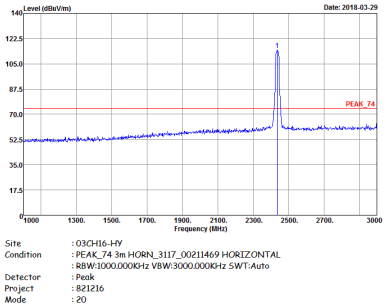
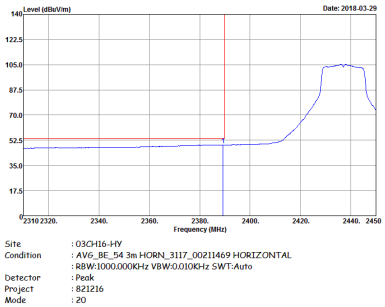
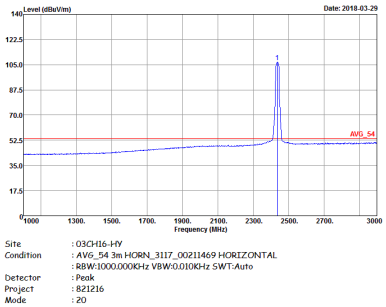
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 15	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 15
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 15	 Site : 03CH16-HY Condition : AVG_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 15

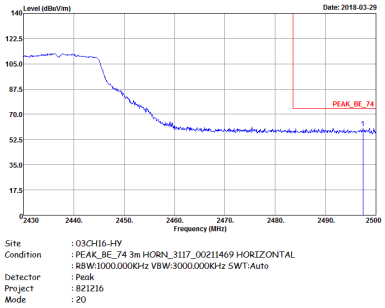
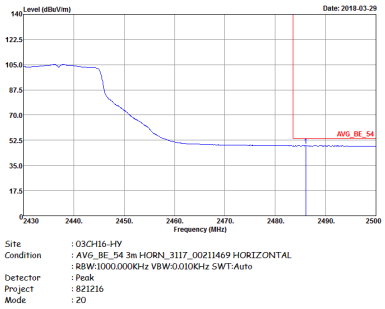
2.4GHz 2400~2483.5MHz

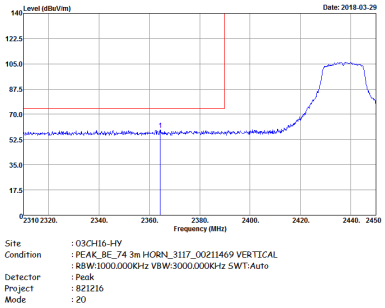
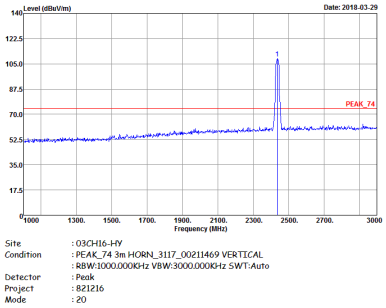
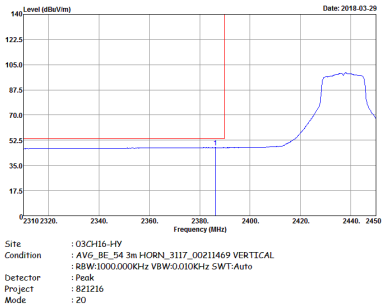
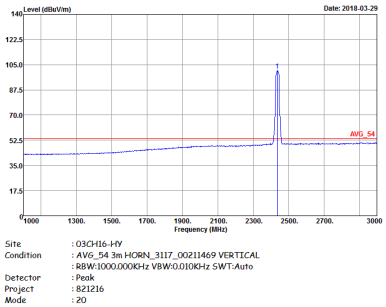
WIFI 802.11g (Band Edge @ 3m)

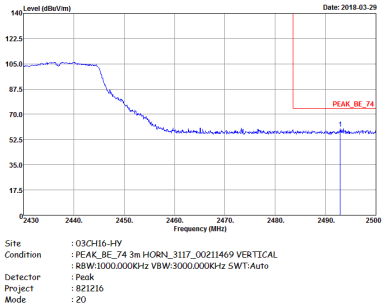
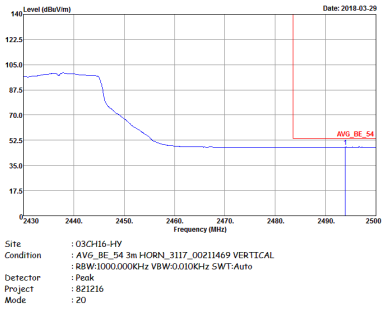
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
2	Horizontal	Fundamental
Peak		
Avg.		

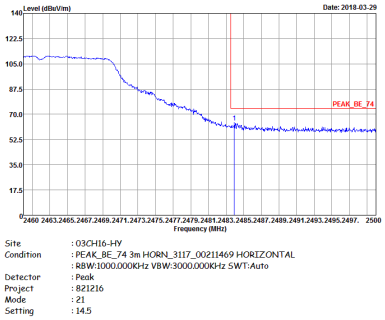
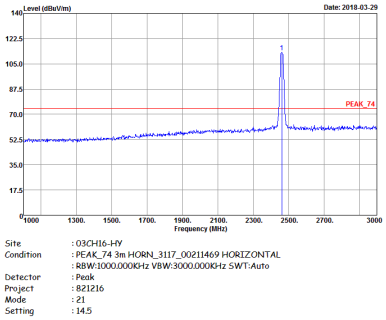
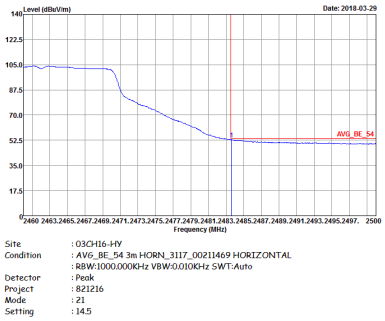
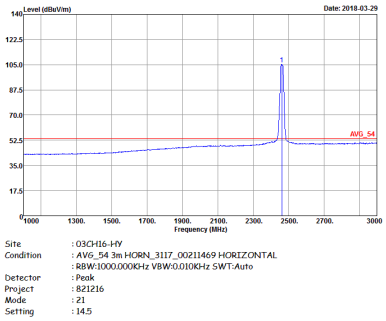
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
2	Vertical	Fundamental
Peak		
Avg.		

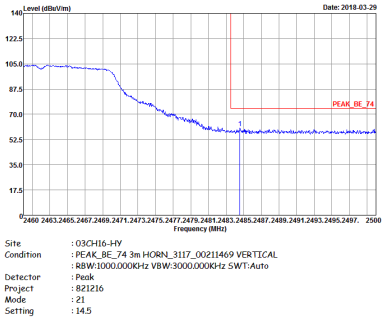
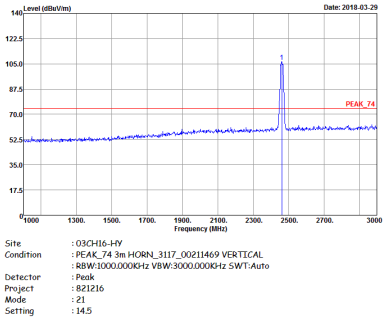
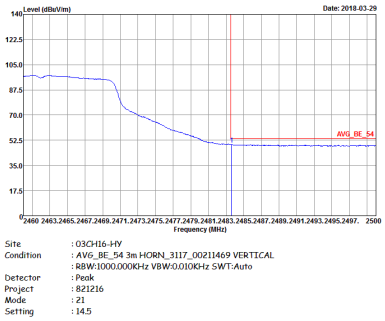
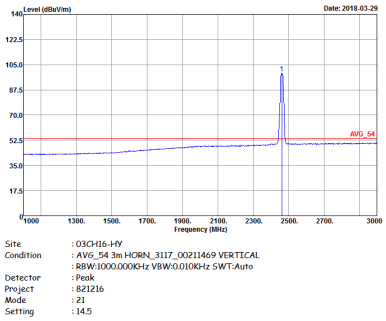
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		

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

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		

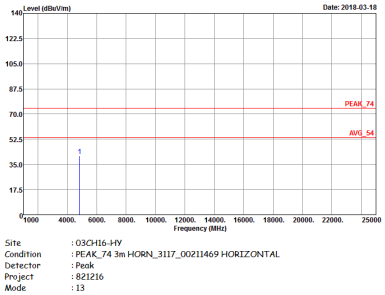
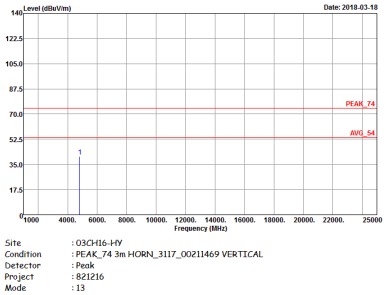
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
2	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

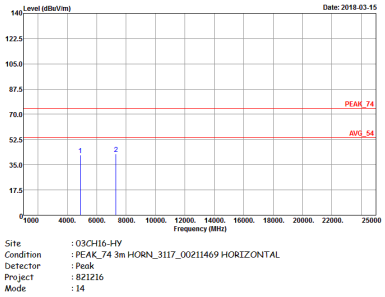
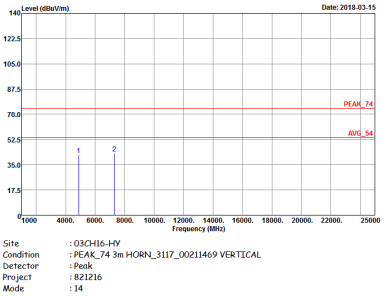
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 21 Setting : 14.5	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 21 Setting : 14.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 21 Setting : 14.5	 Site : 03CH16-HY Condition : AVG_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 21 Setting : 14.5

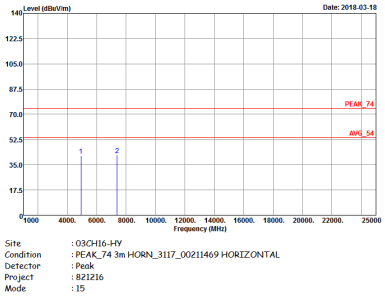
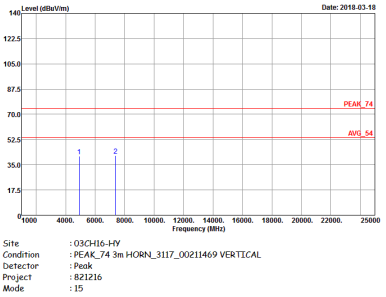
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 21 Setting : 14.5	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 21 Setting : 14.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 21 Setting : 14.5	 Site : 03CH16-HY Condition : AVG_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 821216 Mode : 21 Setting : 14.5

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

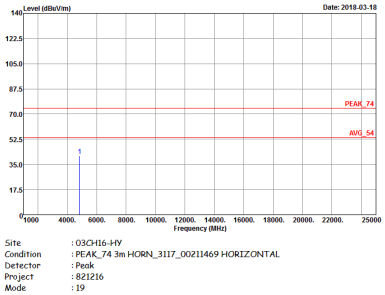
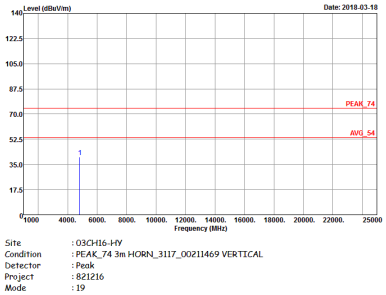
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
2	Horizontal	Vertical
Peak Avg.		

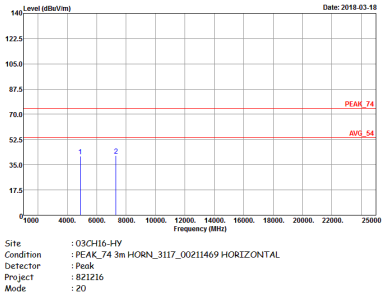
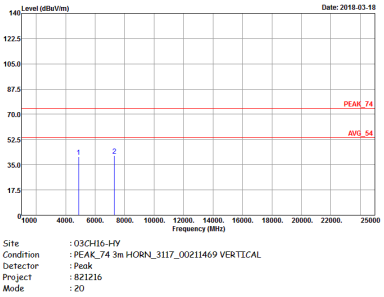
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL Detector : Peak Project : 821216 Mode : 14	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL Detector : Peak Project : 821216 Mode : 14

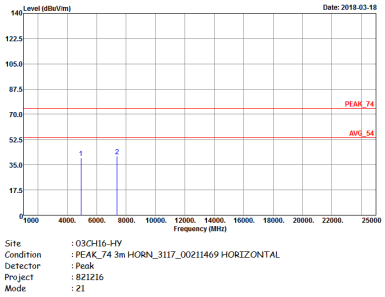
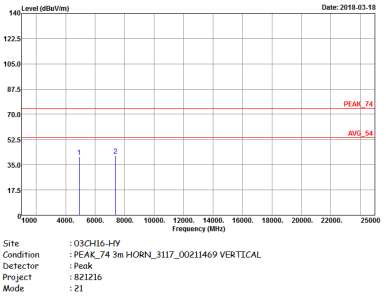
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL Detector : Peak Project : 821216 Mode : 15	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL Detector : Peak Project : 821216 Mode : 15

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

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

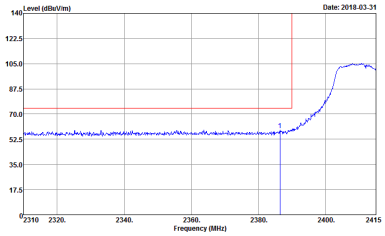
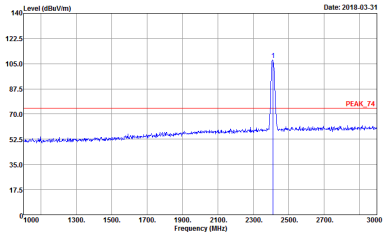
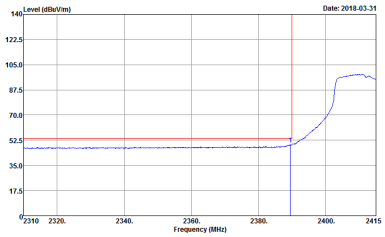
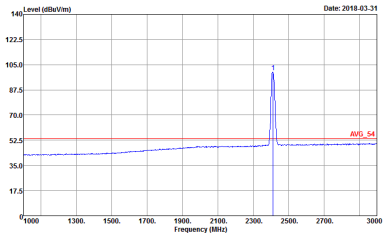
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL Detector : Peak Project : 821216 Mode : 20	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL Detector : Peak Project : 821216 Mode : 20

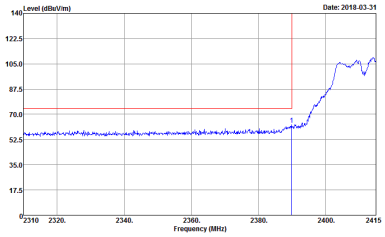
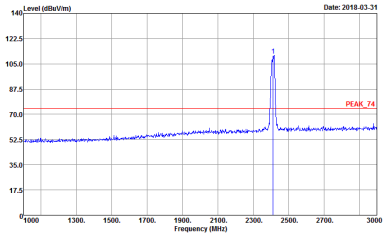
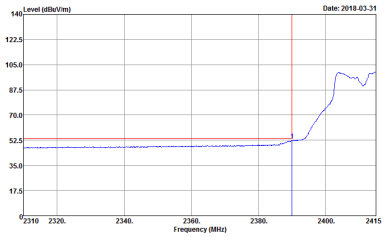
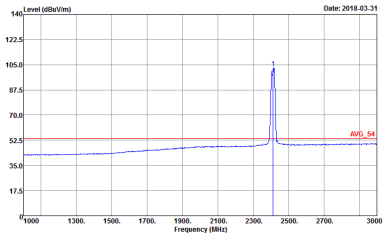
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL Detector : Peak Project : 821216 Mode : 21	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL Detector : Peak Project : 821216 Mode : 21

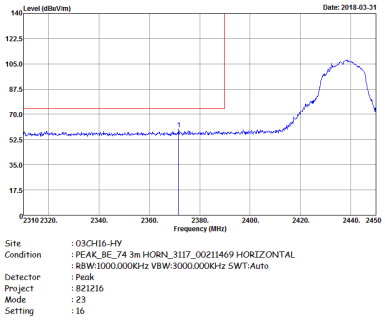
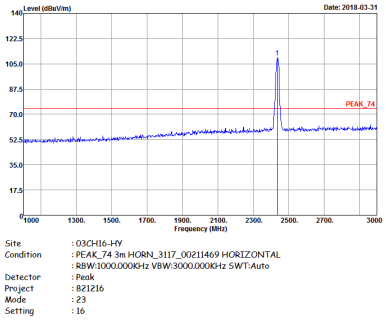
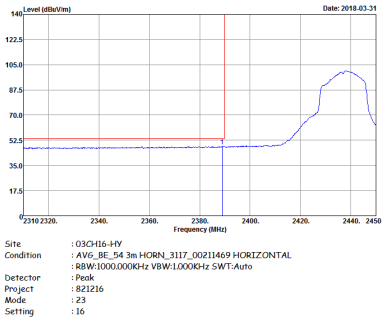
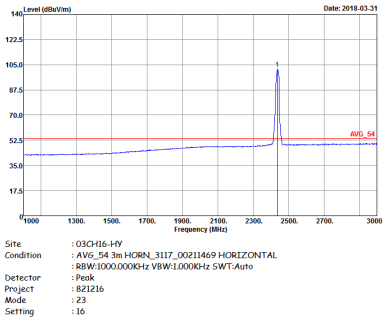
<Antenna 1+2>

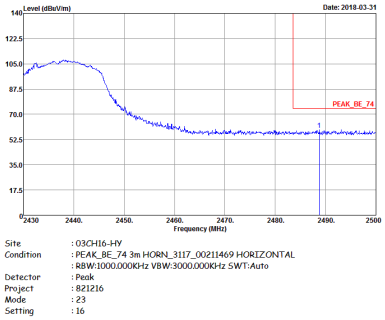
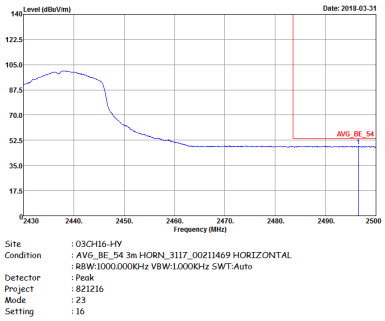
2.4GHz 2400~2483.5MHz

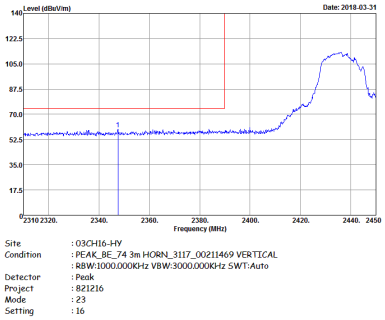
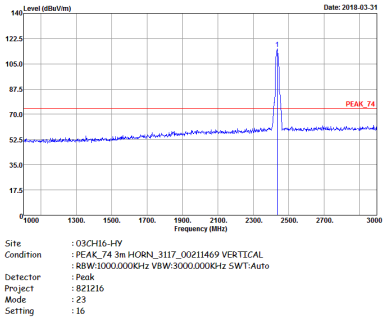
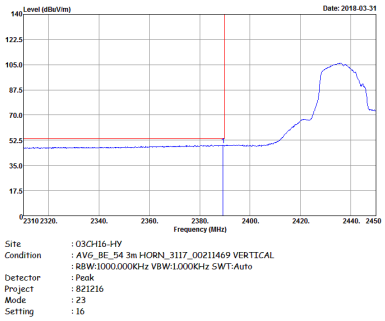
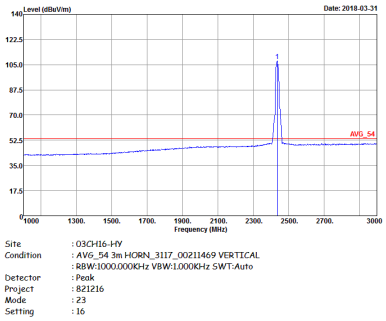
WIFI 802.11n HT20 (Band Edge @ 3m)

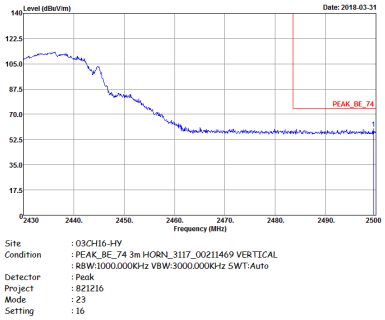
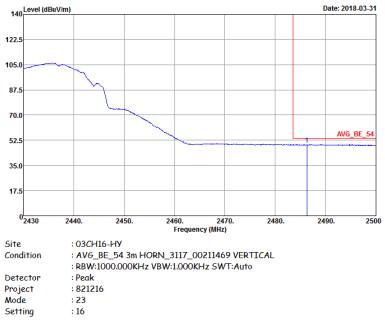
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		

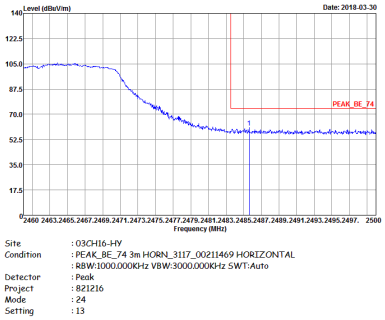
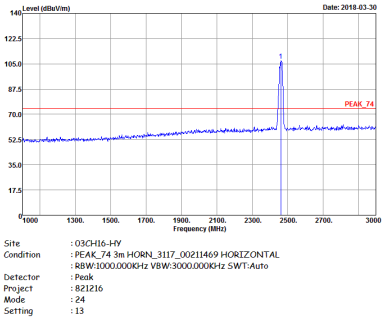
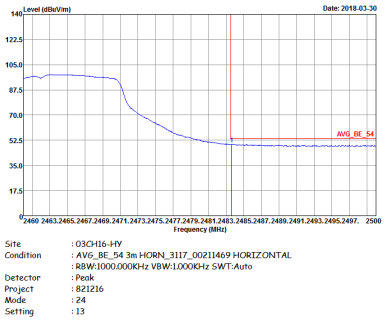
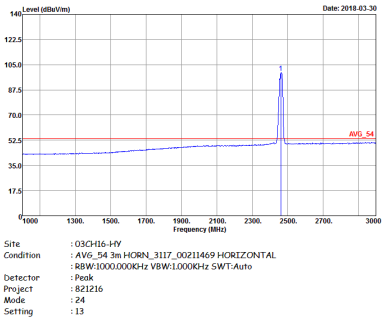
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 22 Setting : 13.5	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 22 Setting : 13.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 22 Setting : 13.5	 Site : 03CH16-HY Condition : AVG_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 22 Setting : 13.5

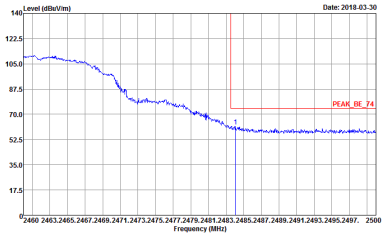
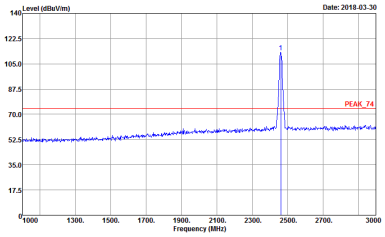
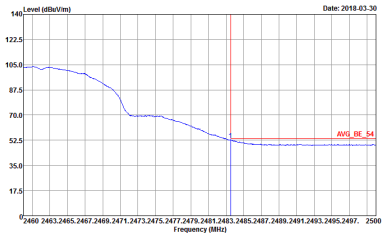
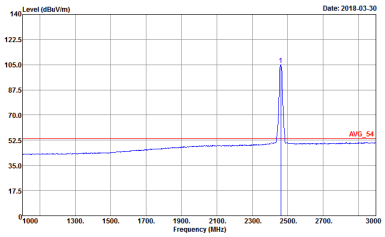
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	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+2	Vertical	Fundamental
Peak		
Avg.		

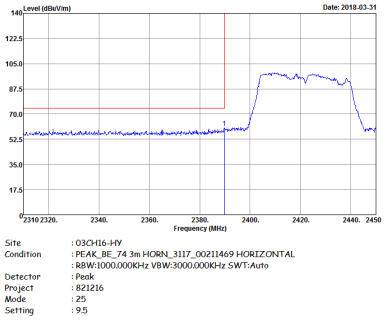
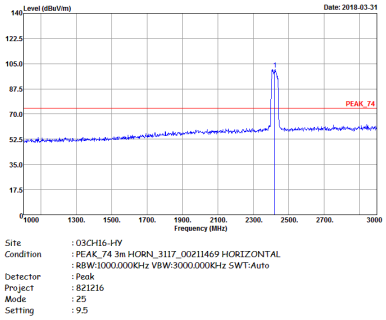
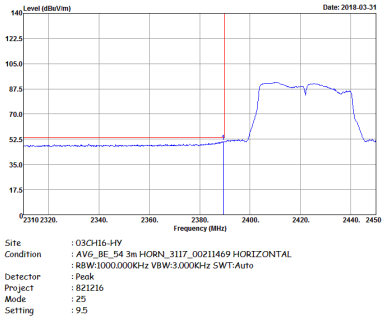
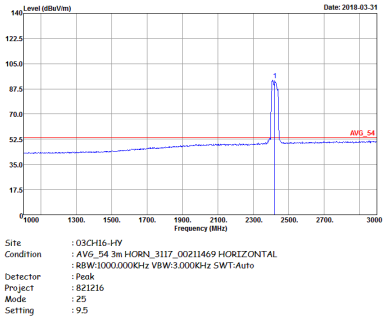
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

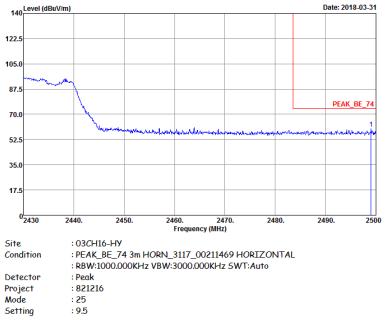
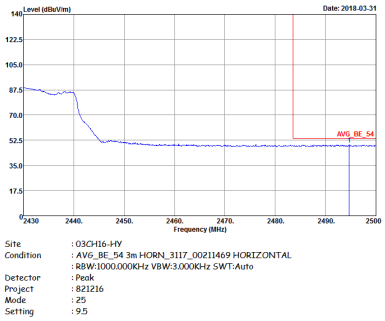
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 24 Setting : 13	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 24 Setting : 13
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 24 Setting : 13	 Site : 03CH16-HY Condition : AVG_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 24 Setting : 13

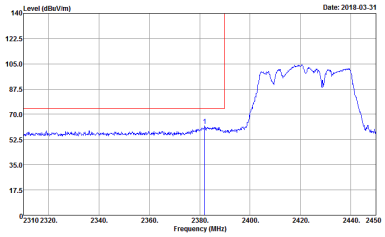
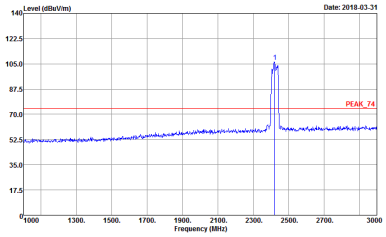
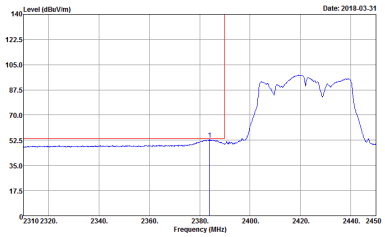
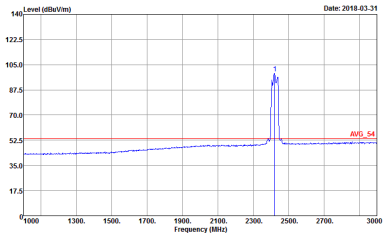
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 24 Setting : 13	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 24 Setting : 13
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 24 Setting : 13	 Site : 03CH16-HY Condition : AVG_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 24 Setting : 13

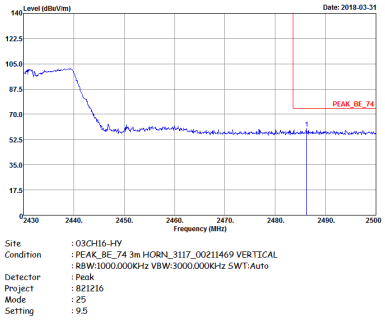
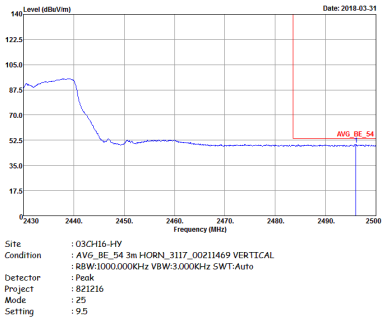
2.4GHz 2400~2483.5MHz

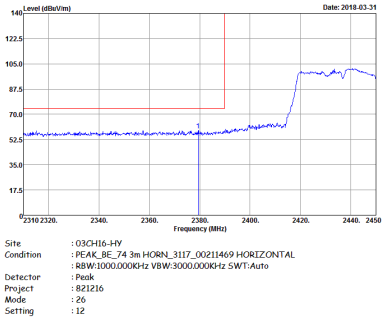
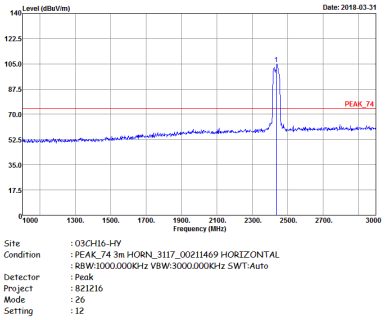
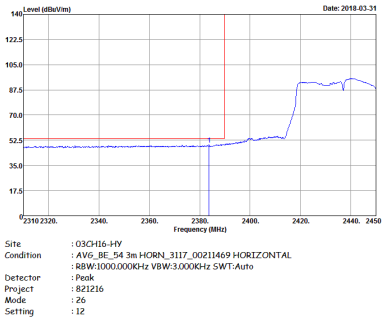
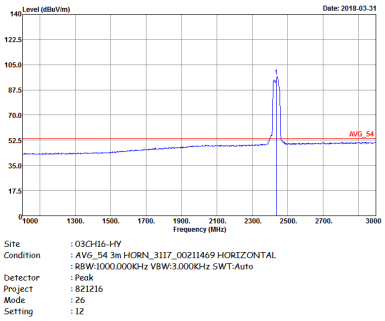
WIFI 802.11n HT40 (Band Edge @ 3m)

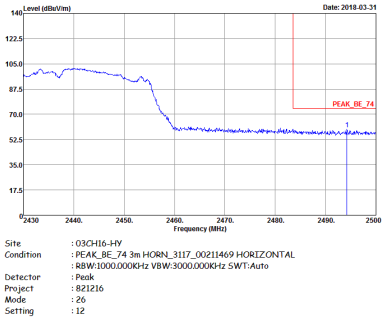
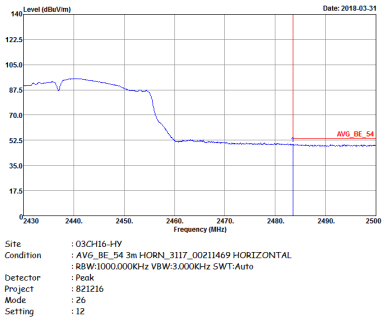
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

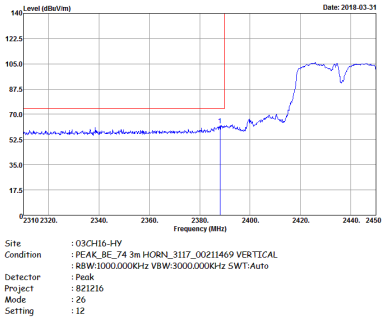
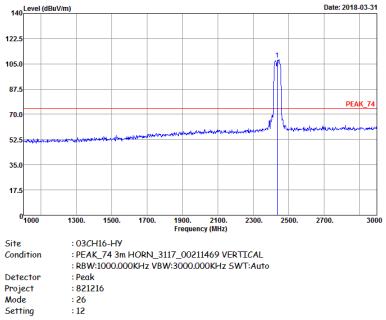
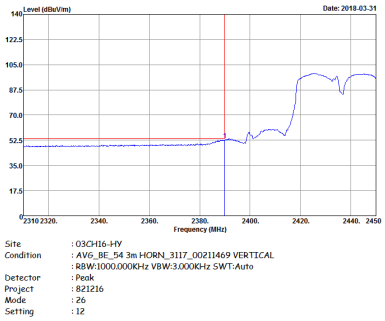
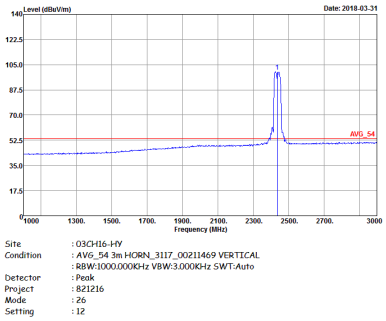
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 25 Setting : 9.5	Left Blank
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 25 Setting : 9.5	Left Blank

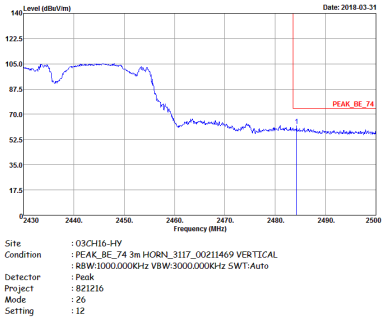
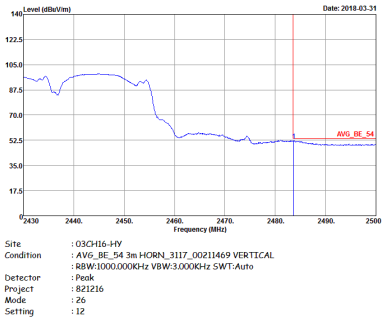
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 25 Setting : 9.5	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 25 Setting : 9.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 25 Setting : 9.5	 Site : 03CH16-HY Condition : AVG_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 25 Setting : 9.5

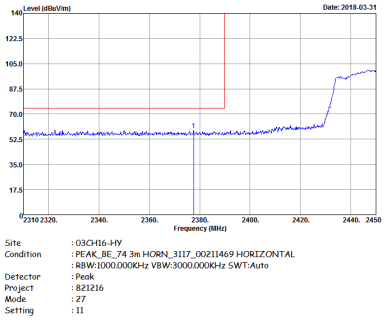
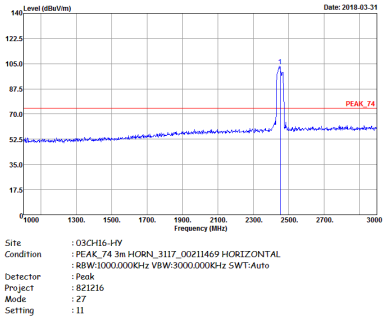
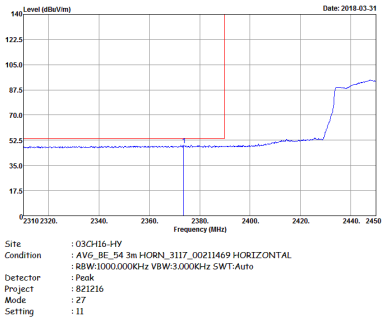
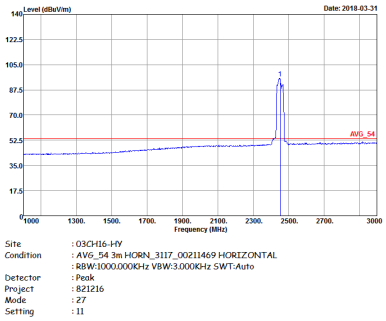
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 25 Setting : 9.5	Left blank
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 25 Setting : 9.5	Left blank

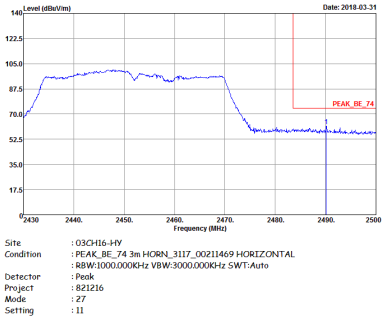
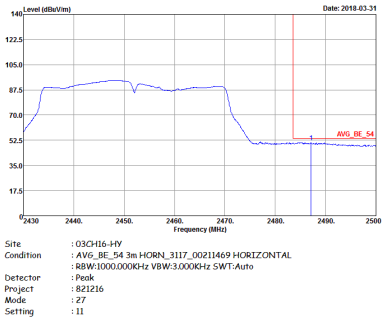
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 26 Setting : 12	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 26 Setting : 12
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 26 Setting : 12	 Site : 03CH16-HY Condition : AVG_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 26 Setting : 12

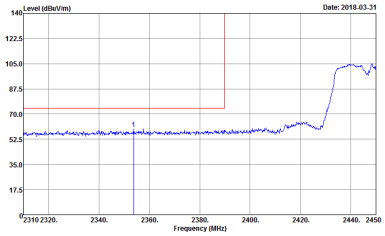
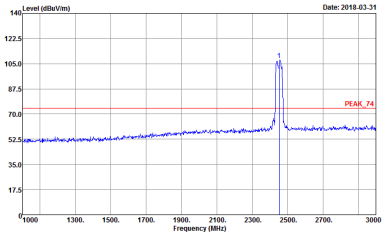
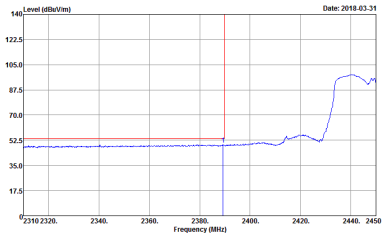
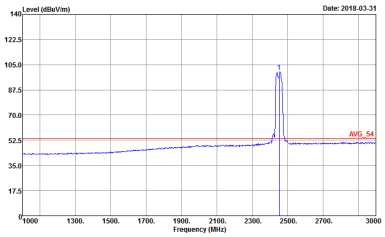
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 26 Setting : 12	Left blank
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 26 Setting : 12	Left blank

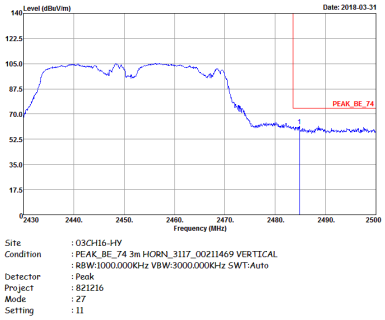
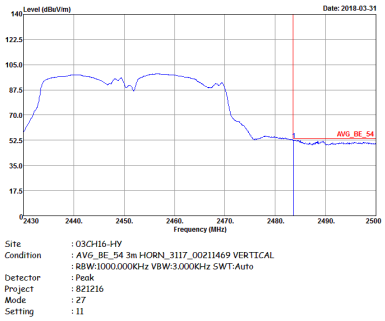
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 26 Setting : 12	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 26 Setting : 12
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 26 Setting : 12	 Site : 03CH16-HY Condition : AVG_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 26 Setting : 12

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 26 Setting : 12	Left blank
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 26 Setting : 12	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

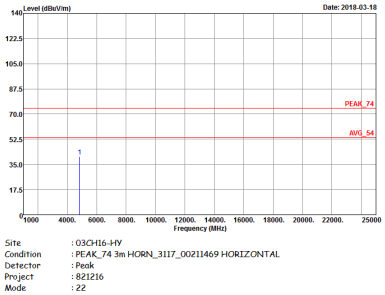
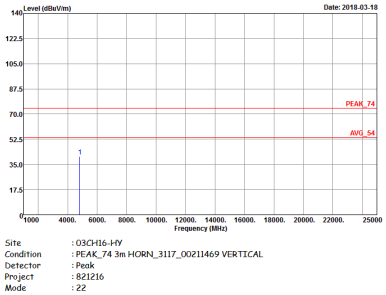
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 27 Setting : 11	Left blank
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m HORN_3117_00211469 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 27 Setting : 11	Left blank

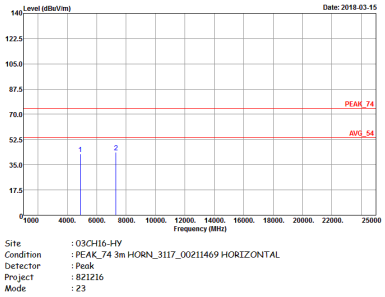
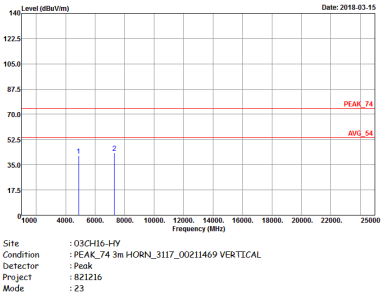
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 27 Setting : 11	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 27 Setting : 11
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 27 Setting : 11	 Site : 03CH16-HY Condition : AVG_54 3m HORN_3117_00211469 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 821216 Mode : 27 Setting : 11

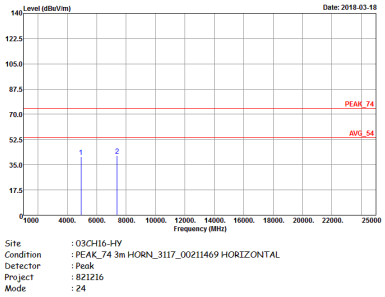
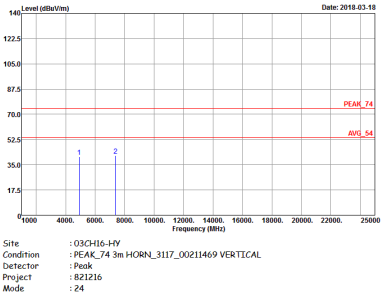
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

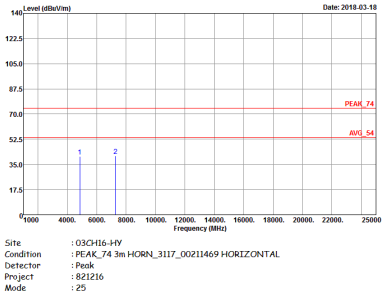
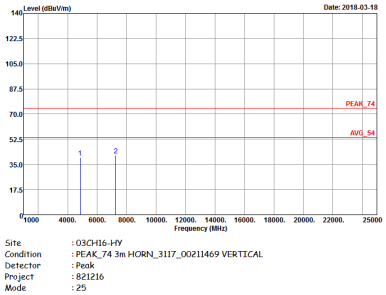
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.		

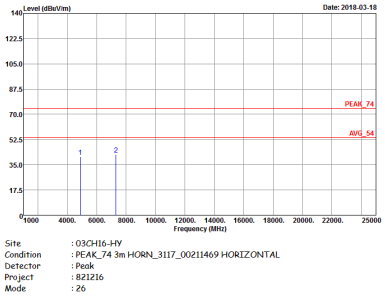
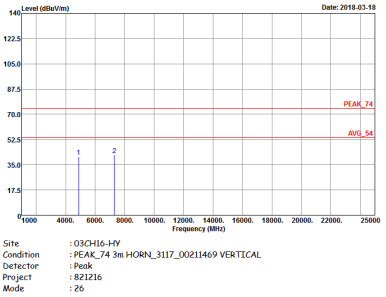
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL Detector : Peak Project : 821216 Mode : 23	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL Detector : Peak Project : 821216 Mode : 23

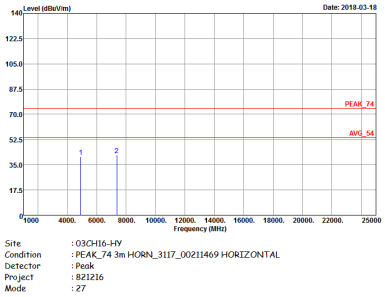
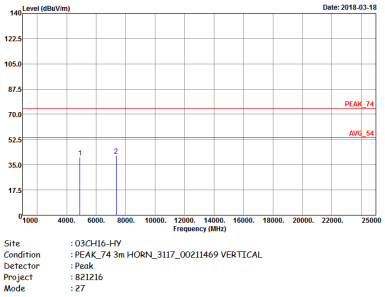
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL Detector : Peak Project : 821216 Mode : 24	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL Detector : Peak Project : 821216 Mode : 24

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

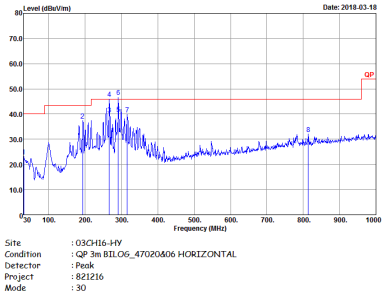
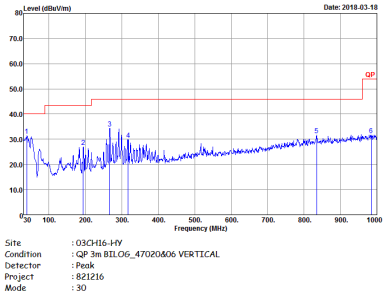
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 HORIZONTAL Detector : Peak Project : 821216 Mode : 26	 Site : 03CH16-HY Condition : PEAK_74 3m HORN_3117_00211469 VERTICAL Detector : Peak Project : 821216 Mode : 26

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

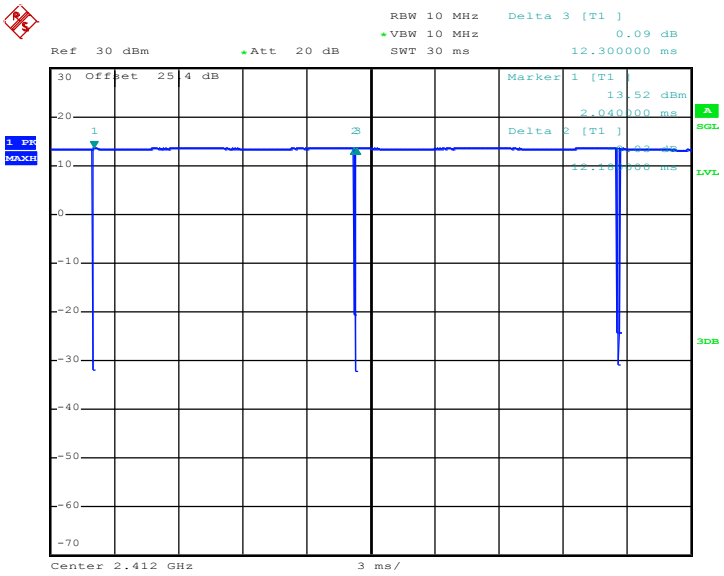
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT40 LF	
1+2	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11b	99.02	-	-	10Hz	0.04
2	802.11b	99.02	-	-	10Hz	0.04
1	802.11g	98.07	-	-	10Hz	0.08
2	802.11g	98.08	-	-	10Hz	0.08
1	2.4GHz 802.11n HT20	97.93	1890	0.53	1kHz	0.09
2	2.4GHz 802.11n HT20	97.94	1900	0.53	1kHz	0.09
1+2	2.4GHz 802.11n HT20 for Ant. 1	97.93	1890	0.53	1kHz	0.09
1+2	2.4GHz 802.11n HT20 for Ant. 2	97.93	1890	0.53	1kHz	0.09
1	2.4GHz 802.11n HT40	94.48	924	1.08	3kHz	0.25
2	2.4GHz 802.11n HT40	94.48	924	1.08	3kHz	0.25
1+2	2.4GHz 802.11n HT40 for Ant. 1	94.48	924	1.08	3kHz	0.25
1+2	2.4GHz 802.11n HT40 for Ant. 2	94.51	930	1.08	3kHz	0.25

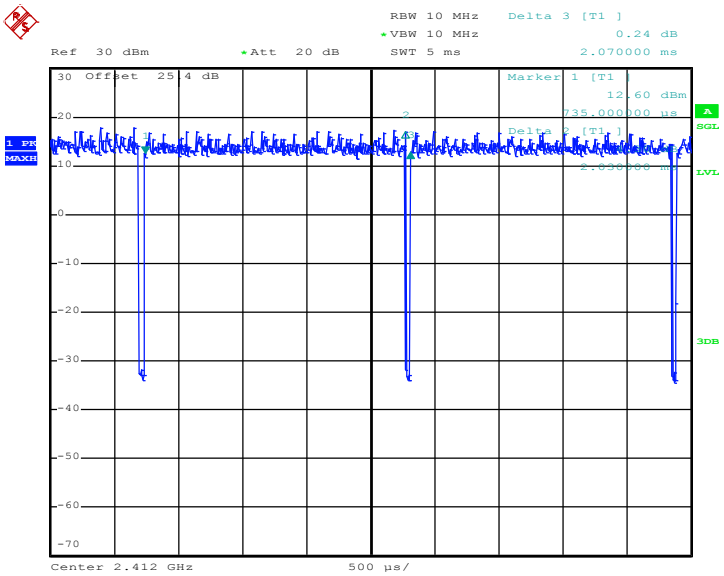
<Ant. 1>

802.11b



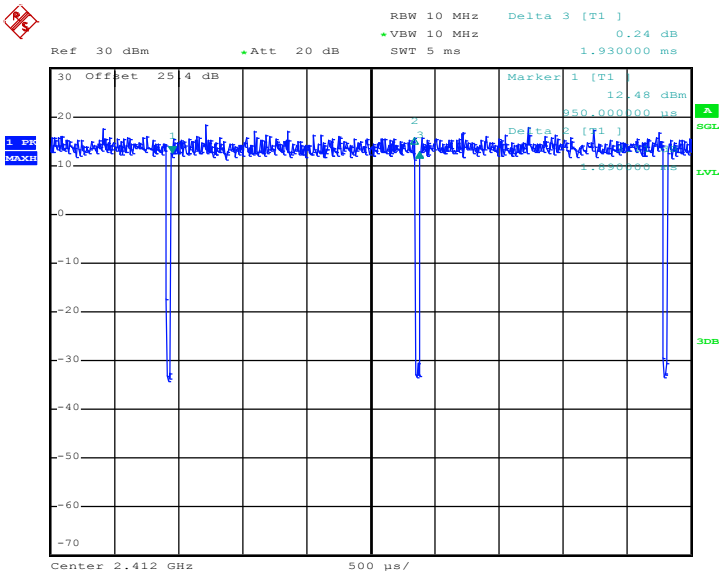
Date: 22.FEB.2018 16:01:50

802.11g



Date: 22.FEB.2018 16:20:51

802.11n HT20



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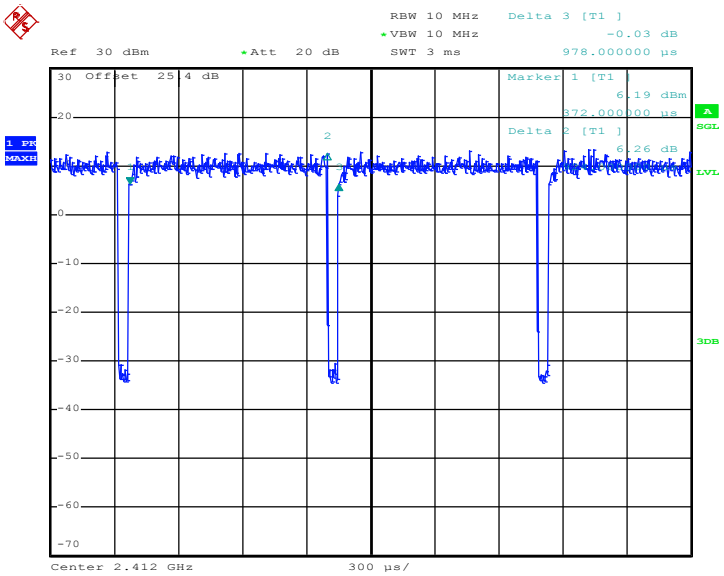
802.11n HT40



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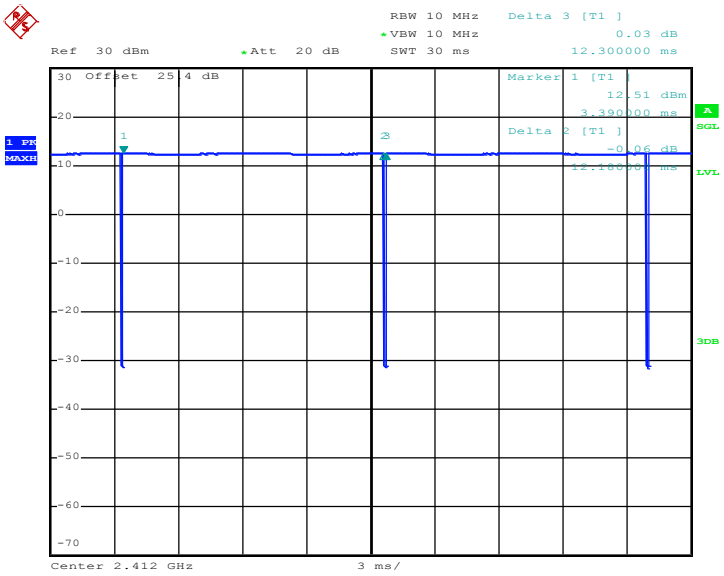
802.11b



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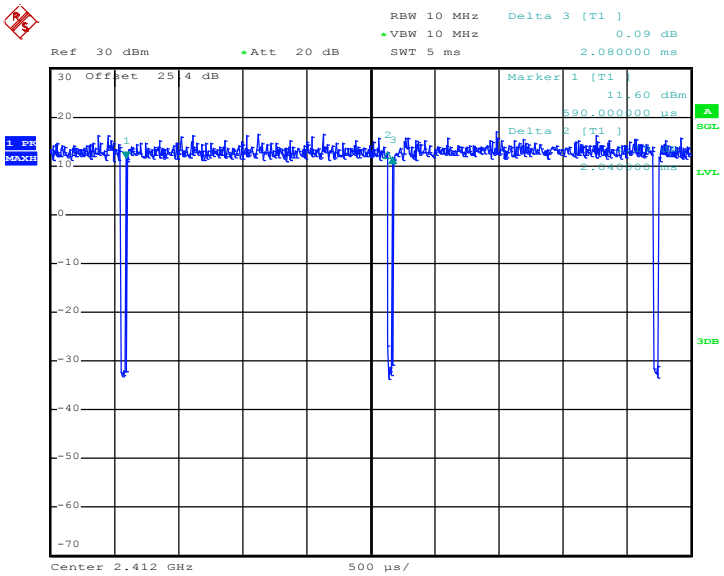

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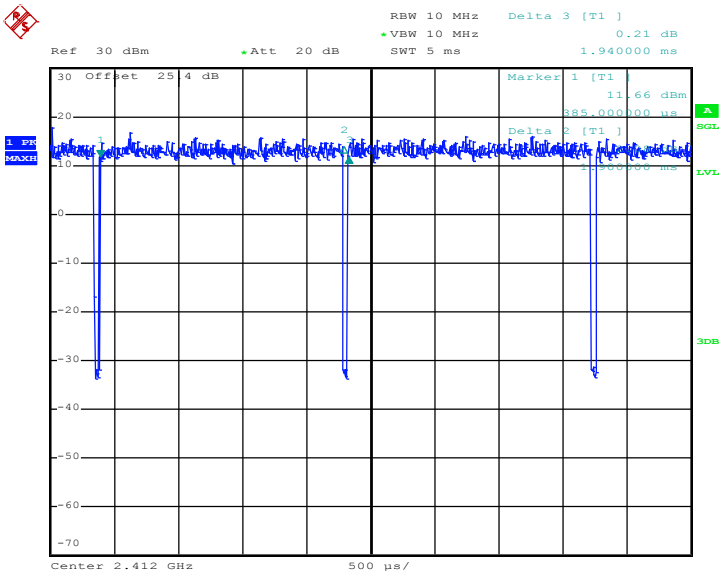

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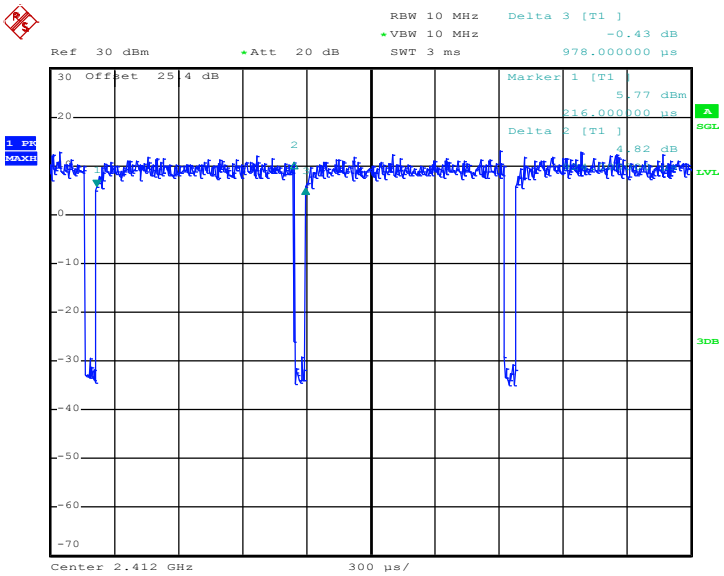

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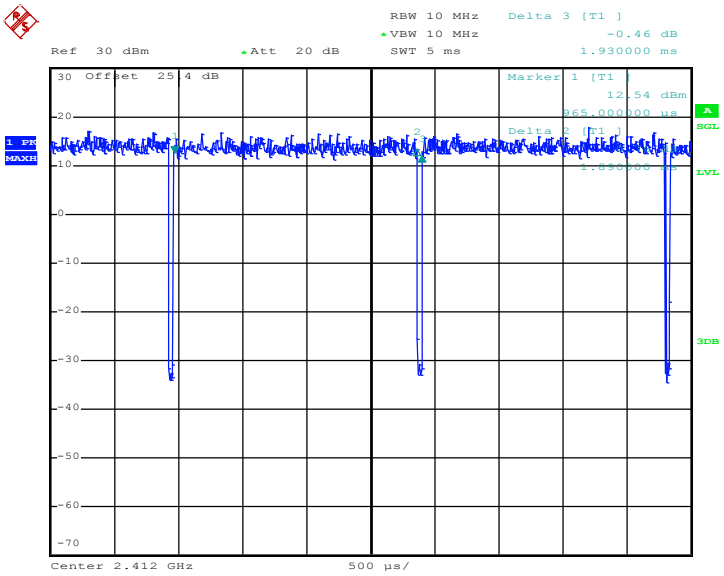

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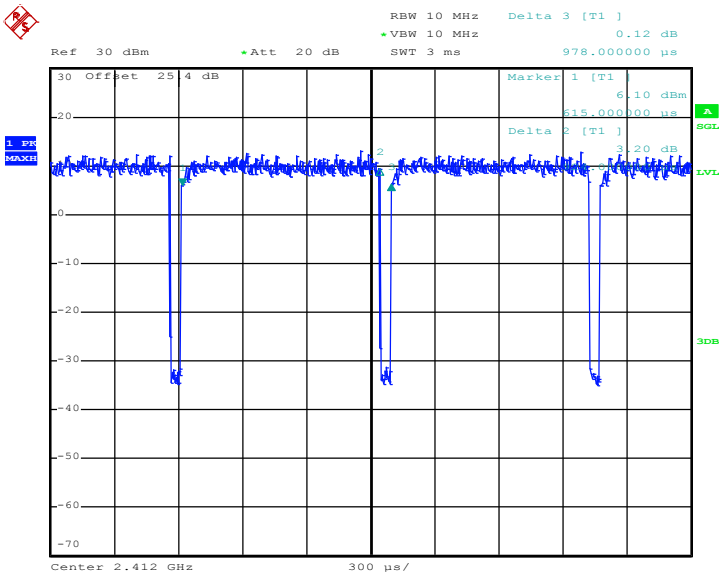

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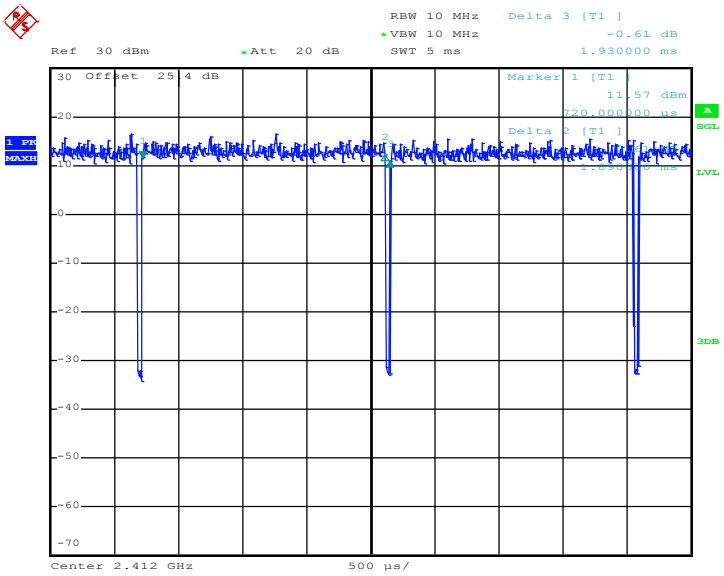

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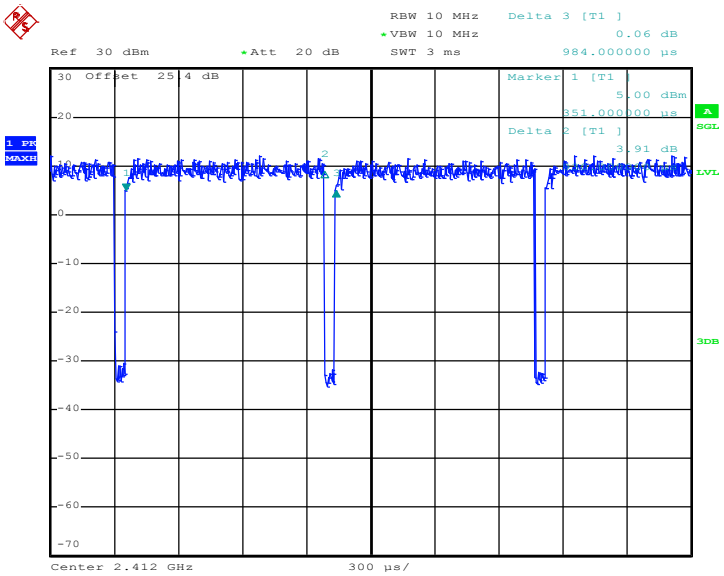

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