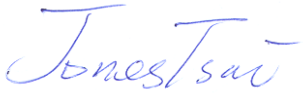
FCC RF Test Report

APPLICANT	:	FUJITSU LIMITED
EQUIPMENT	:	LIFEBOOK T series
BRAND NAME	:	FUJITSU
MODEL NAME	:	T937
FCC ID	:	EJE-WB0101
STANDARD	:	FCC Part 15 Subpart C §15.247
CLASSIFICATION	:	(DTS) Digital Transmission System

This is a partial report which is included the RF conducted power, conducted emission and radiated emission test items. The product was received on Oct. 14, 2016 and testing was completed on Dec. 19, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager

Testing Laboratory
1190

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
FR6O1408C	Rev. 01	Initial issue of report	Dec. 08, 2016
FR6O1408C	Rev. 02	Adding conducted emission data and describe the use of Low power SKU in Appendix A.	Dec. 19, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.2	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 1.20 dB at 407.800 MHz for Quasi-Peak
3.3	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 14.30 dB at 0.190 MHz
3.4	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

FUJITSU LIMITED

1-1, Kamikonadaka 4-chome, Nakahara-ku, Kawasaki, 211-8588 Japan

1.2 Manufacturer

FUJITSU LIMITED

1-1, Kamikonadaka 4-chome, Nakahara-ku, Kawasaki, 211-8588 Japan

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	LIFEBOOK T series
Brand Name	FUJITSU
Model Name	T937
FCC ID	EJE-WB0101
Integrated the WLAN Module	Brand Name: Intel Model Name: 8265NGW FCC ID: PD98265NG, PD98265NGU
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
EUT Stage	Pre-Production Unit

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

1.4 Product Specification of Equipment Under Test

<table>
<tr><th colspan="2">Standards-related Product Specification</th></tr>
<tr><td>Tx/Rx Channel Frequency Range</td><td>2412 MHz ~ 2462 MHz</td></tr>
<tr><td>Maximum (Peak) Output Power to antenna</td><td><Ant. 1>
802.11b : 17.64 dBm (0.0581 W)
802.11g : 20.41 dBm (0.1099 W)
802.11n HT20 : 20.06 dBm (0.1014 W)
802.11n HT40 : 19.24 dBm (0.0839 W)
<Ant. 2>
802.11b : 17.28 dBm (0.0535 W)
802.11g : 20.34 dBm (0.1081 W)
802.11n HT20 : 20.44 dBm (0.1107 W)
802.11n HT40 : 19.14 dBm (0.0820 W)
MIMO <Ant. 1 + 2>
802.11n HT20 : 23.30 dBm (0.2138 W)
802.11n HT40 : 23.00 dBm (0.1995 W)</td></tr>
<tr><td>Antenna Type / Gain</td><td><Ant 1>
PIFA Antenna type with gain 0.11 dBi
<Ant 2>
PIFA Antenna type with gain -0.56 dBi</td></tr>
<tr><td>Type of Modulation</td><td>802.11b : DSSS (DBPSK / DQPSK / CCK)
802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)</td></tr>
<tr><td>Antenna Function for Transmitter</td><td>
<table>
<tr><td></td><td>Ant. 1</td><td>Ant. 2</td></tr>
<tr><td>802.11 b/g/n</td><td>V</td><td>V</td></tr>
<tr><td>802.11 n MIMO</td><td>V</td><td>V</td></tr>
</table>
</td></tr>
</table>

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

1.5 Modification of EUT

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

1.6 Testing Location

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

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

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

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	03CH13-HY

Note: The test site complies with ANSI C63.4 2009 requirement.

1.7 Applicable Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

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

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

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

2.2 Test Mode

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

Single Antenna

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

MIMO Antenna

Modulation	Data Rate
802.11n HT20	MCS8
802.11n HT40	MCS8

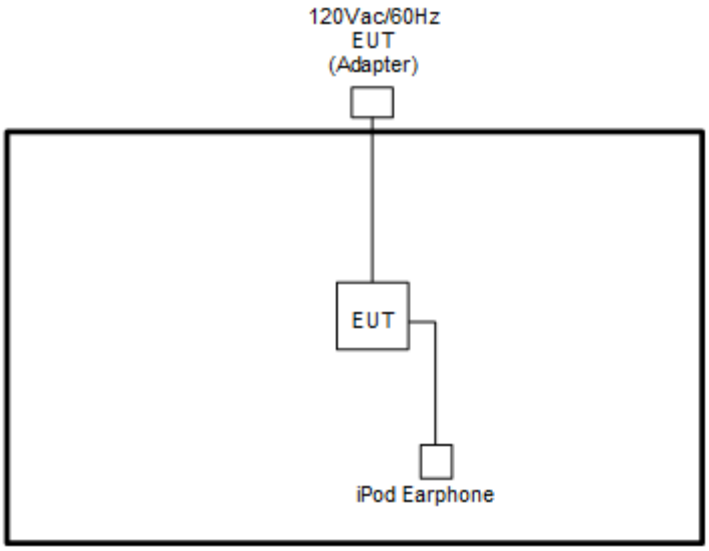
Test Cases	
AC Conducted Emission	Mode 1 :WLAN (2.4GHz) Link + Bluetooth Link + TC + TF

Remark:

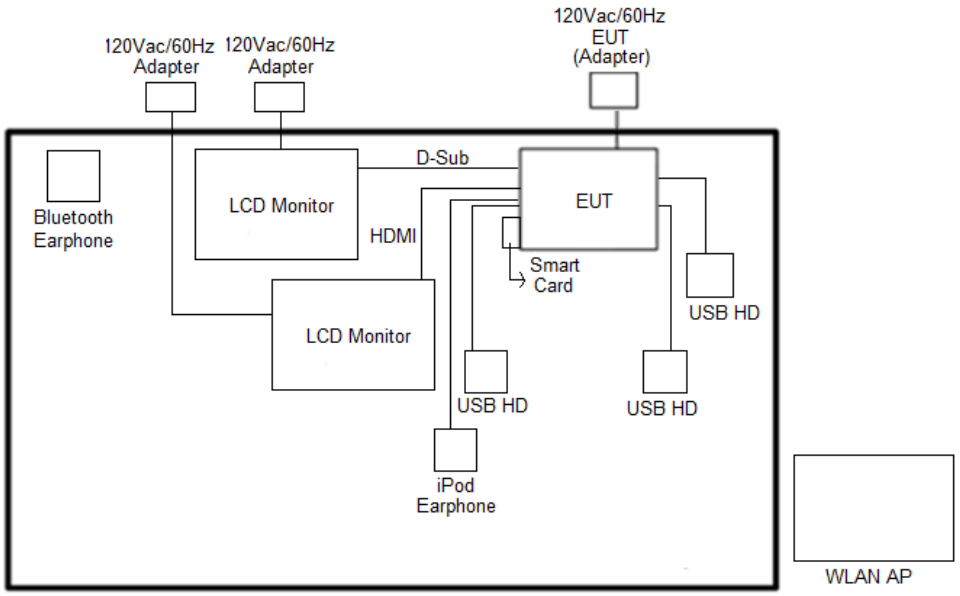
1. TC stands for Test Configuration, and consists of Adapter, USB HD, SD Card, Smart Card (Load), Earphone, D-sub and HDMI Cable.
2. TF stands for Test Configuration, and consists of MPEG4, Camera, and H Pattern.
3. HDMI Cable means media application transferred between EUT and external display.

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC54U	MSQ-RTN54U	N/A	Unshielded, 1.8 m
2.	LCD Monitor	Dell	U2410	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
3.	USB HD	PQI	H568V	FCC DoC	Unshielded, 0.5m	N/A
4.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
5.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
7.	Smart Card	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

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

3 Test Result

3.1 Peak Output Power Measurement

3.1.1 Limit of Peak Output Power

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

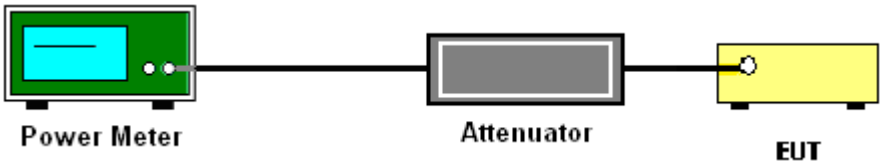
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r05 section 9.1.2 PKPM1 Peak power meter method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.1.4 Test Setup



3.1.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.1.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A.

3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

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

3.2.2 Measuring Instruments

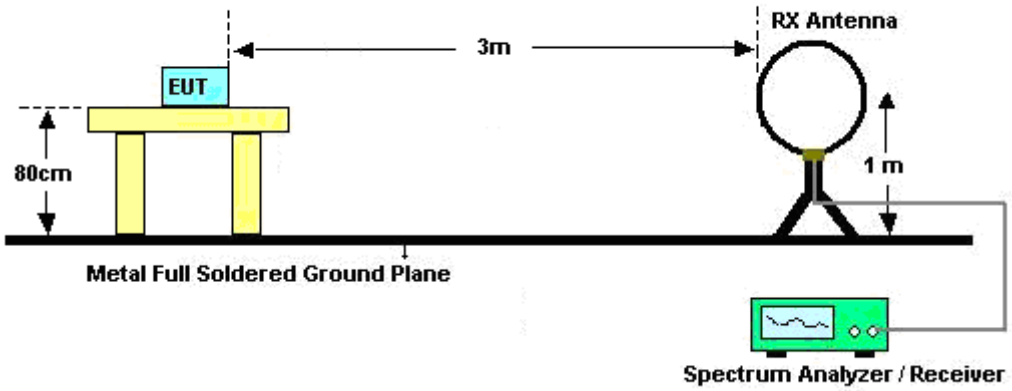
The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

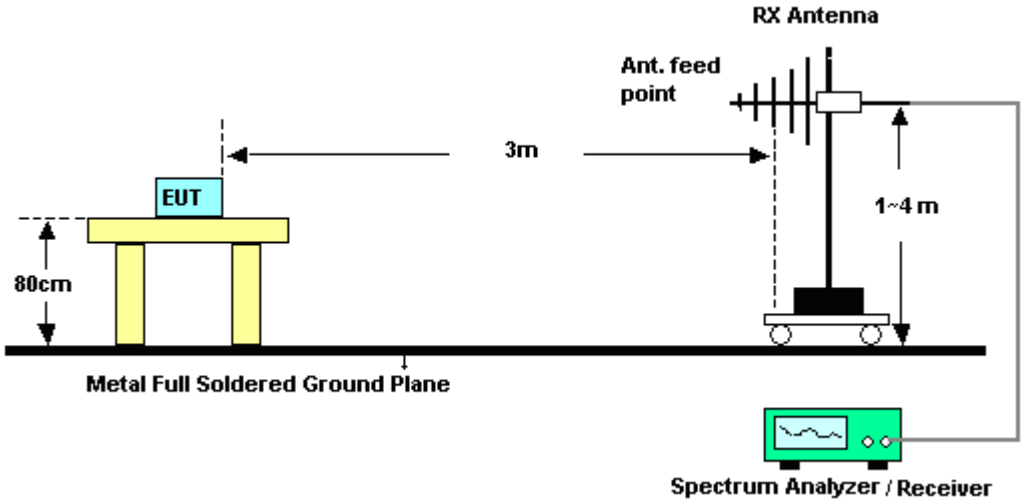
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.2.4 Test Setup

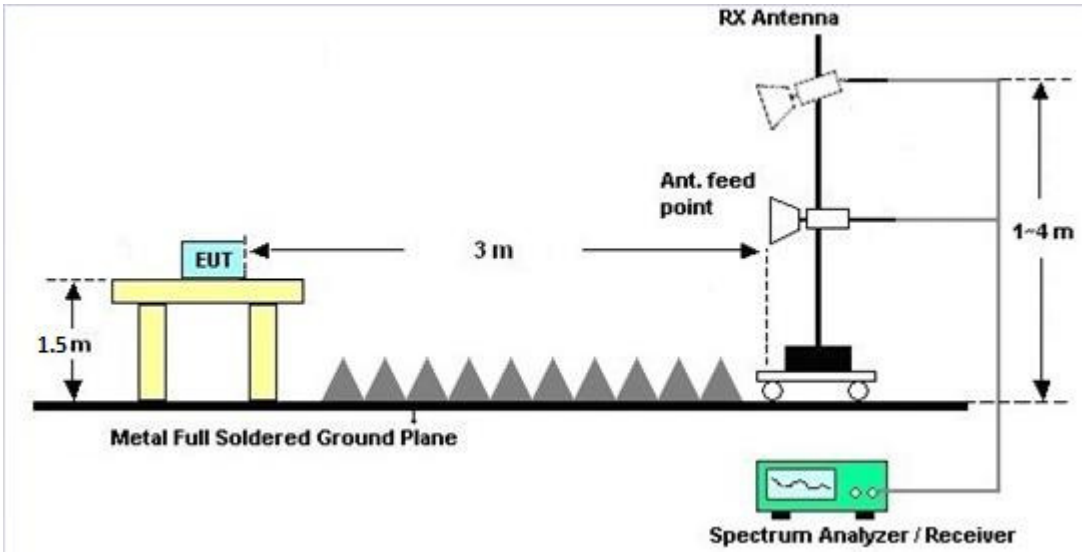
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.2.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.

3.3 AC Conducted Emission Measurement

3.3.1 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.

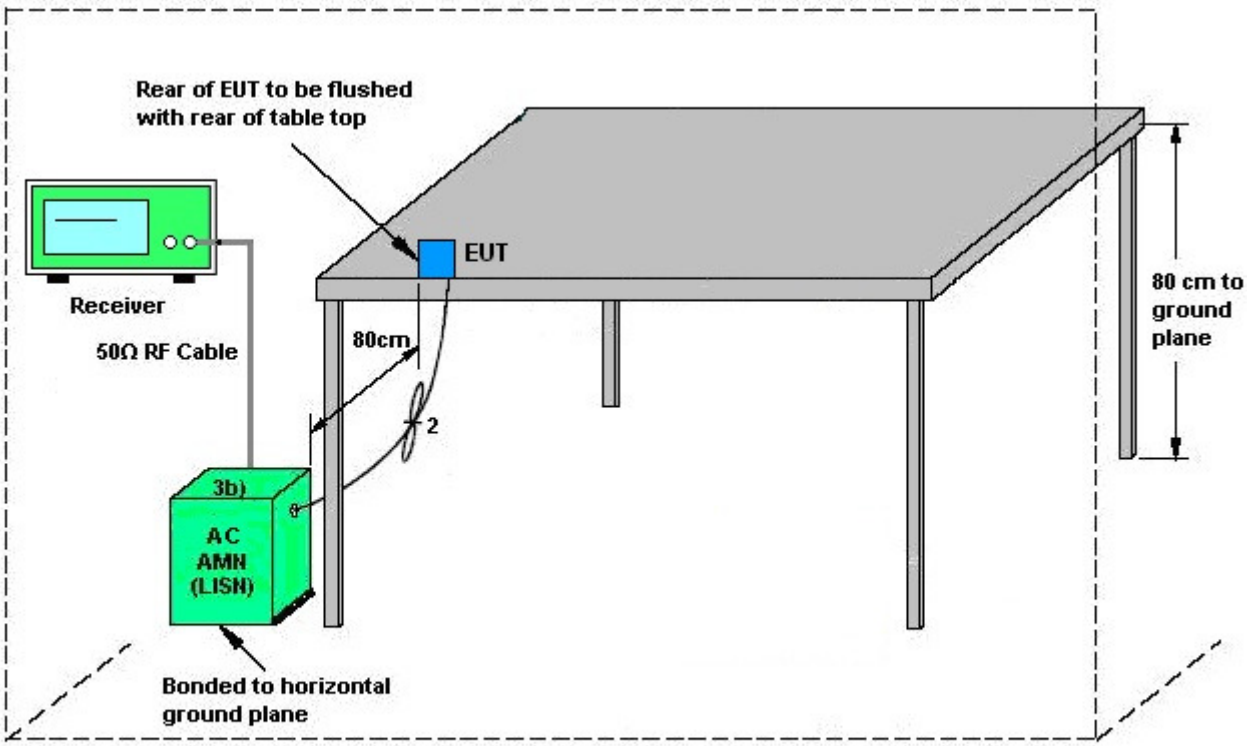
3.3.2 Measuring Instruments

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

3.3.3 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.

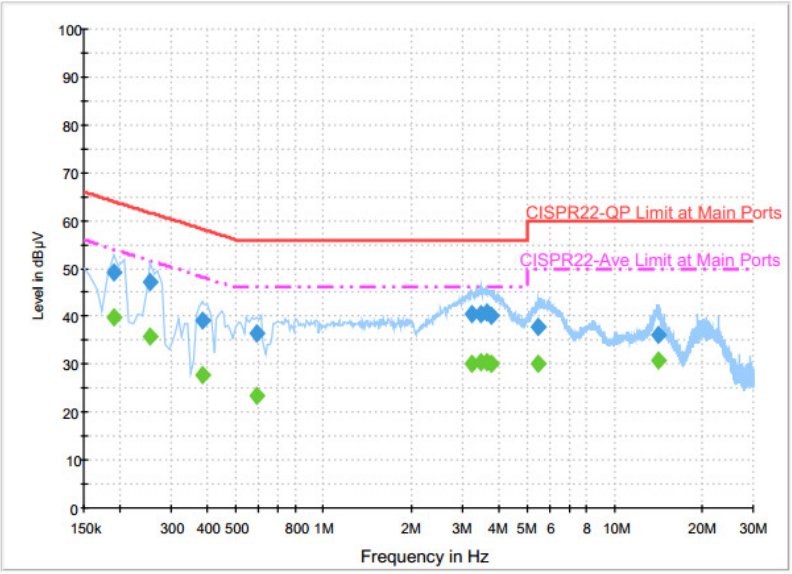
3.3.4 Test Setup



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

3.3.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	23~24℃
Test Engineer :	Kai-Chun Chu	Relative Humidity :	48~49%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (2.4GHz) Link + Bluetooth Link + TC + TF		



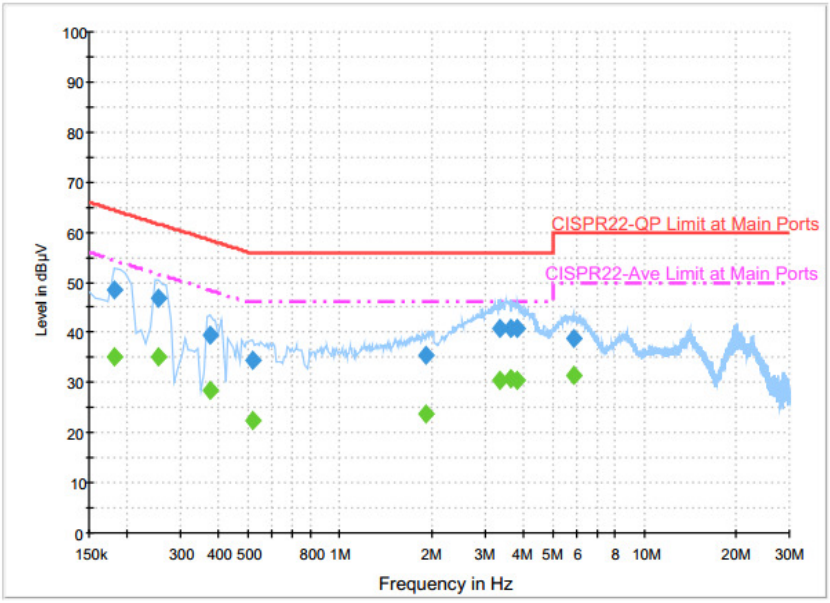
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190000	49.3	Off	L1	19.6	14.7	64.0
0.254000	47.2	Off	L1	19.6	14.4	61.6
0.382000	39.3	Off	L1	19.6	18.9	58.2
0.590000	36.5	Off	L1	19.6	19.5	56.0
3.246000	40.5	Off	L1	19.5	15.5	56.0
3.462000	40.6	Off	L1	19.6	15.4	56.0
3.638000	40.7	Off	L1	19.6	15.3	56.0
3.790000	40.1	Off	L1	19.6	15.9	56.0
5.494000	37.7	Off	L1	19.7	22.3	60.0
14.126000	36.3	Off	L1	19.7	23.7	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190000	39.7	Off	L1	19.6	14.3	54.0
0.254000	35.8	Off	L1	19.6	15.8	51.6
0.382000	27.8	Off	L1	19.6	20.4	48.2
0.590000	23.4	Off	L1	19.6	22.6	46.0
3.246000	30.1	Off	L1	19.5	15.9	46.0
3.462000	30.5	Off	L1	19.6	15.5	46.0
3.638000	30.4	Off	L1	19.6	15.6	46.0
3.790000	30.2	Off	L1	19.6	15.8	46.0
5.494000	30.0	Off	L1	19.7	20.0	50.0
14.126000	30.6	Off	L1	19.7	19.4	50.0

Test Mode :	Mode 1	Temperature :	23~24℃
Test Engineer :	Kai-Chun Chu	Relative Humidity :	48~49%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (2.4GHz) Link + Bluetooth Link + TC + TF		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	48.4	Off	N	19.5	16.0	64.4
0.254000	47.0	Off	N	19.5	14.6	61.6
0.374000	39.4	Off	N	19.5	19.0	58.4
0.518000	34.5	Off	N	19.5	21.5	56.0
1.910000	35.4	Off	N	19.6	20.6	56.0
3.374000	40.9	Off	N	19.5	15.1	56.0
3.654000	40.8	Off	N	19.6	15.2	56.0
3.830000	40.7	Off	N	19.6	15.3	56.0
5.838000	38.8	Off	N	19.7	21.2	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	35.3	Off	N	19.5	19.1	54.4
0.254000	35.2	Off	N	19.5	16.4	51.6
0.374000	28.4	Off	N	19.5	20.0	48.4
0.518000	22.6	Off	N	19.5	23.4	46.0
1.910000	23.8	Off	N	19.6	22.2	46.0
3.374000	30.4	Off	N	19.5	15.6	46.0
3.654000	30.7	Off	N	19.6	15.3	46.0
3.830000	30.5	Off	N	19.6	15.5	46.0
5.838000	31.4	Off	N	19.7	18.6	50.0

3.4 Antenna Requirements

3.4.1 Standard Applicable

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

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.4.3 Antenna Gain

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	300MHz~40GHz	Sep. 29, 2016	Nov. 02, 2016 ~ Nov. 07, 2016	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Nov. 02, 2016 ~ Nov. 07, 2016	Sep. 28, 2017	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Nov. 08, 2016 ~ Nov. 27, 2016	Sep. 01, 2017	Radiation (03CH13-HY)
Preamplifier	MITEQ	TTA0204	1872107	2GHz~40GHz	Feb. 15, 2016	Nov. 08, 2016 ~ Nov. 27, 2016	Feb. 14, 2017	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	Apr. 15, 2016	Nov. 08, 2016 ~ Nov. 27, 2016	Apr. 14, 2017	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 31, 2015	Nov. 08, 2016 ~ Nov. 27, 2016	Dec. 30, 2016	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800N1D01N-06	40103&04	30MHz to 1GHz	Jan. 13, 2016	Nov. 08, 2016 ~ Nov. 27, 2016	Jan. 12, 2017	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY55420170	N/A	Mar. 10, 2016	Nov. 08, 2016 ~ Nov. 27, 2016	Mar. 09, 2017	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Apr. 25, 2016	Nov. 08, 2016 ~ Nov. 27, 2016	Apr. 24, 2017	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Jan. 30, 2016	Nov. 08, 2016 ~ Nov. 27, 2016	Jan. 29, 2017	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	N/A	Mar. 14, 2016	Nov. 08, 2016 ~ Nov. 27, 2016	Mar. 13, 2017	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Nov. 08, 2016 ~ Nov. 27, 2016	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 08, 2016 ~ Nov. 27, 2016	N/A	Radiation (03CH13-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 19, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Dec. 19, 2016	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Dec. 19, 2016	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	Dec. 19, 2016	Dec. 05, 2017	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

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

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

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

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

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

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

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

Appendix A. Conducted Test Results

A1 - DTS Part

Test Engineer:	Aking Chang	Temperature:	21~25	°C
Test Date:	2016/11/2~2016/11/7	Relative Humidity:	51~54	%

The host integrated a 8265NGW module, FCC ID: PD98265NG, which has 2 SKUs.
The original power SKU is certified by certification body and the data was performed in the original test report. The second one is low power SKU which also has the same FCC ID, and the result of power table performed below is measuring with the host integrated with the low power SKU module.

TEST RESULTS DATA
Peak Output Power

2.4GHz Band											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2
11b	1Mbps	1	1	2412	17.17	17.11		0.11	-0.56	17.28	16.55
11b	1Mbps	1	6	2437	17.64	17.28		0.11	-0.56	17.75	16.72
11b	1Mbps	1	11	2462	17.18	17.16		0.11	-0.56	17.29	16.60
11g	6Mbps	1	1	2412	20.17	20.34		0.11	-0.56	20.28	19.78
11g	6Mbps	1	6	2437	20.41	20.34		0.11	-0.56	20.52	19.78
11g	6Mbps	1	11	2462	19.79	20.34		0.11	-0.56	19.90	19.78
HT20	MCS0	1	1	2412	19.96	20.25		0.11	-0.56	20.07	19.69
HT20	MCS0	1	6	2437	20.00	20.32		0.11	-0.56	20.11	19.76
HT20	MCS0	1	11	2462	20.06	20.44		0.11	-0.56	20.17	19.88
HT40	MCS0	1	3	2422	17.01	18.99		0.11	-0.56	17.12	18.43
HT40	MCS0	1	6	2437	19.24	19.14		0.11	-0.56	19.35	18.58
HT40	MCS0	1	9	2452	19.19	19.12		0.11	-0.56	19.30	18.56
HT20	MCS8	2	1	2412	20.35	20.23	23.30	0.11		23.41	
HT20	MCS8	2	6	2437	20.31	19.90	23.12	0.11		23.23	
HT20	MCS8	2	11	2462	19.92	19.79	22.87	0.11		22.98	
HT40	MCS8	2	3	2422	17.03	16.96	20.01	0.11		20.12	
HT40	MCS8	2	6	2437	20.06	19.91	23.00	0.11		23.11	
HT40	MCS8	2	9	2452	17.67	17.61	20.65	0.11		20.76	

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)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	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	0.04	0.06	14.65	14.52		30.00	30.00	0.11	-0.56	14.76	13.96	36.00	36.00	Pass
11b	1Mbps	1	6	2437	0.04	0.06	14.94	14.55		30.00	30.00	0.11	-0.56	15.05	13.99	36.00	36.00	Pass
11b	1Mbps	1	11	2462	0.04	0.06	14.66	14.54		30.00	30.00	0.11	-0.56	14.77	13.98	36.00	36.00	Pass
11g	6Mbps	1	1	2412	0.25	0.25	14.87	14.80		30.00	30.00	0.11	-0.56	14.98	14.24	36.00	36.00	Pass
11g	6Mbps	1	6	2437	0.25	0.25	14.90	14.71		30.00	30.00	0.11	-0.56	15.01	14.15	36.00	36.00	Pass
11g	6Mbps	1	11	2462	0.25	0.25	14.60	14.54		30.00	30.00	0.11	-0.56	14.71	13.98	36.00	36.00	Pass
HT20	MCS0	1	1	2412	0.22	0.27	14.61	14.54		30.00	30.00	0.11	-0.56	14.72	13.98	36.00	36.00	Pass
HT20	MCS0	1	6	2437	0.22	0.27	14.70	14.62		30.00	30.00	0.11	-0.56	14.81	14.06	36.00	36.00	Pass
HT20	MCS0	1	11	2462	0.22	0.27	14.73	14.67		30.00	30.00	0.11	-0.56	14.84	14.11	36.00	36.00	Pass
HT40	MCS0	1	3	2422	0.76	0.85	12.88	14.73		30.00	30.00	0.11	-0.56	12.99	14.17	36.00	36.00	Pass
HT40	MCS0	1	6	2437	0.76	0.85	14.99	14.88		30.00	30.00	0.11	-0.56	15.10	14.32	36.00	36.00	Pass
HT40	MCS0	1	9	2452	0.76	0.85	14.94	14.75		30.00	30.00	0.11	-0.56	15.05	14.19	36.00	36.00	Pass
HT20	MCS8	2	1	2412	0.73	0.73	14.97	14.82	17.91	30.00		0.11		18.02		36.00		Pass
HT20	MCS8	2	6	2437	0.73	0.73	14.93	14.40	17.69	30.00		0.11		17.80		36.00		Pass
HT20	MCS8	2	11	2462	0.73	0.73	14.48	14.47	17.49	30.00		0.11		17.60		36.00		Pass
HT40	MCS8	2	3	2422	0.81	0.77	11.76	11.66	14.72	30.00		0.11		14.83		36.00		Pass
HT40	MCS8	2	6	2437	0.81	0.77	14.88	14.51	17.71	30.00		0.11		17.82		36.00		Pass
HT40	MCS8	2	9	2452	0.81	0.77	12.95	12.65	15.81	30.00		0.11		15.92		36.00		Pass

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

Appendix B. Radiated Spurious Emission

Test Engineer :	Bill Chang, Wilson Wu and Alex Jeng	Temperature :	25~26°C
		Relative Humidity :	40~42%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		2379.615	52.73	-21.27	74	49.94	27.11	6.96	31.28	119	145	P	H
		2384.97	43.42	-10.58	54	40.63	27.11	6.96	31.28	119	145	A	H
	*	2412	99.52	-	-	96.6	27.19	7	31.27	119	145	P	H
	*	2412	96.29	-	-	93.37	27.19	7	31.27	119	145	A	H
													H
													H
		2374.575	52.41	-21.59	74	49.62	27.11	6.96	31.28	341	192	P	V
		2385.075	42.54	-11.46	54	39.75	27.11	6.96	31.28	341	192	A	V
	*	2412	99.73	-	-	96.81	27.19	7	31.27	341	192	P	V
	*	2412	96.52	-	-	93.6	27.19	7	31.27	341	192	A	V
													V
													V
802.11b CH 06 2437MHz		2338	52.76	-21.24	74	50.12	27.03	6.91	31.3	117	143	P	H
		2388.12	42.4	-11.6	54	39.55	27.15	6.98	31.28	117	143	A	H
	*	2437	101.47	-	-	98.42	27.28	7.03	31.26	117	143	P	H
	*	2437	96.21	-	-	93.16	27.28	7.03	31.26	117	143	A	H
		2494.96	53.22	-20.78	74	49.97	27.4	7.09	31.24	117	143	P	H
		2484.95	43.42	-10.58	54	40.24	27.36	7.07	31.25	117	143	A	H
		2370.06	52.32	-21.68	74	49.53	27.11	6.96	31.28	295	195	P	V
		2387	41.83	-12.17	54	38.98	27.15	6.98	31.28	295	195	A	V
	*	2437	99.3	-	-	96.25	27.28	7.03	31.26	295	195	P	V
	*	2437	96.24	-	-	93.19	27.28	7.03	31.26	295	195	A	V
		2491.39	52.64	-21.36	74	49.4	27.4	7.09	31.25	295	195	P	V
		2491.25	43.64	-10.36	54	40.4	27.4	7.09	31.25	295	195	A	V

802.11b CH 11 2462MHz	*	2462	100.85	-	-	97.74	27.32	7.05	31.26	144	151	P	H
	*	2462	96	-	-	92.89	27.32	7.05	31.26	144	151	A	H
		2499.52	54.03	-19.97	74	50.78	27.4	7.09	31.24	144	151	P	H
		2487.68	45.48	-8.52	54	42.24	27.4	7.09	31.25	144	151	A	H
													H
													H
	*	2462	99.53	-	-	96.42	27.32	7.05	31.26	325	197	P	V
	*	2462	96.64	-	-	93.53	27.32	7.05	31.26	325	197	A	V
		2487.92	53.53	-20.47	74	50.29	27.4	7.09	31.25	325	197	P	V
		2487.8	45.6	-8.4	54	42.36	27.4	7.09	31.25	325	197	A	V
													V
													V

Remark

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

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	31.93	-42.07	74	41.82	31.22	10.07	51.18	100	0	P	H
													H
													H
													H
		4824	31.55	-42.45	74	41.44	31.22	10.07	51.18	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	31.78	-42.22	74	41.51	31.31	10.11	51.15	100	0	P	H
		7311	39.25	-34.75	74	41.25	36.27	12.53	50.8	100	0	P	H
													H
													H
		4874	30.1	-43.9	74	39.83	31.31	10.11	51.15	100	0	P	V
		7311	37.95	-36.05	74	39.95	36.27	12.53	50.8	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	31.66	-42.34	74	41.26	31.39	10.14	51.13	100	0	P	H
		7386	37.48	-36.52	74	39.04	36.51	12.73	50.8	100	0	P	H
													H
													H
		4924	30.29	-43.71	74	39.89	31.39	10.14	51.13	100	0	P	V
		7386	37.82	-36.18	74	39.38	36.51	12.73	50.8	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.8	56.28	-17.72	74	53.42	27.15	6.98	31.27	138	148	P	H
		2388.855	45.28	-8.72	54	42.43	27.15	6.98	31.28	138	148	A	H
	*	2412	102.75	-	-	99.83	27.19	7	31.27	138	148	P	H
	*	2412	95.17	-	-	92.25	27.19	7	31.27	138	148	A	H
													H
													H
		2388.015	54.89	-19.11	74	52.04	27.15	6.98	31.28	342	193	P	V
		2389.695	46.08	-7.92	54	43.23	27.15	6.98	31.28	342	193	A	V
	*	2412	102.61	-	-	99.69	27.19	7	31.27	342	193	P	V
	*	2412	95.07	-	-	92.15	27.19	7	31.27	342	193	A	V
													V
													V
802.11g CH 06 2437MHz		2386.16	52.74	-21.26	74	49.89	27.15	6.98	31.28	117	144	P	H
		2389.66	42.92	-11.08	54	40.07	27.15	6.98	31.28	117	144	A	H
	*	2437	102.91	-	-	99.86	27.28	7.03	31.26	117	144	P	H
	*	2437	95.14	-	-	92.09	27.28	7.03	31.26	117	144	A	H
		2483.55	53.62	-20.38	74	50.44	27.36	7.07	31.25	117	144	P	H
		2492.86	44.05	-9.95	54	40.8	27.4	7.09	31.24	117	144	A	H
		2375.24	52.6	-21.4	74	49.81	27.11	6.96	31.28	331	193	P	V
		2386.72	42.89	-11.11	54	40.04	27.15	6.98	31.28	331	193	A	V
	*	2437	102.57	-	-	99.52	27.28	7.03	31.26	331	193	P	V
	*	2437	94.77	-	-	91.72	27.28	7.03	31.26	331	193	A	V
		2490.9	54.47	-19.53	74	51.23	27.4	7.09	31.25	331	193	P	V
		2488.31	43.71	-10.29	54	40.47	27.4	7.09	31.25	331	193	A	V

802.11g CH 11 2462MHz	*	2462	103.16	-	-	100.05	27.32	7.05	31.26	111	144	P	H
	*	2462	95.46	-	-	92.35	27.32	7.05	31.26	111	144	A	H
		2491.08	59.09	-14.91	74	55.85	27.4	7.09	31.25	111	144	P	H
		2483.56	47.65	-6.35	54	44.47	27.36	7.07	31.25	111	144	A	H
													H
													H
	*	2462	103.21	-	-	100.1	27.32	7.05	31.26	327	197	P	V
	*	2462	95.69	-	-	92.58	27.32	7.05	31.26	327	197	A	V
		2489.76	61.21	-12.79	74	57.97	27.4	7.09	31.25	327	197	P	V
		2483.6	47.37	-6.63	54	44.19	27.36	7.07	31.25	327	197	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	31.88	-42.12	74	41.77	31.22	10.07	51.18	100	0	P	H
													H
													H
													H
		4824	30.8	-43.2	74	40.69	31.22	10.07	51.18	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	31.91	-42.09	74	41.64	31.31	10.11	51.15	100	0	P	H
		7311	39.82	-34.18	74	41.82	36.27	12.53	50.8	100	0	P	H
													H
													H
		4874	31.06	-42.94	74	40.79	31.31	10.11	51.15	100	0	P	V
		7311	37.76	-36.24	74	39.76	36.27	12.53	50.8	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	30.99	-43.01	74	40.59	31.39	10.14	51.13	100	0	P	H
		7386	38	-36	74	39.56	36.51	12.73	50.8	100	0	P	H
													H
													H
		4926	31.47	-42.53	74	41.07	31.39	10.14	51.13	100	0	P	V
		7386	37.08	-36.92	74	38.64	36.51	12.73	50.8	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2389.38	55.5	-18.5	74	52.65	27.15	6.98	31.28	119	148	P	H
		2389.905	45.24	-8.76	54	42.38	27.15	6.98	31.27	119	148	A	H
	*	2412	101.77	-	-	98.85	27.19	7	31.27	119	148	P	H
	*	2412	94.29	-	-	91.37	27.19	7	31.27	119	148	A	H
802.11n													H
HT20													H
CH 01		2388.96	55.95	-18.05	74	53.1	27.15	6.98	31.28	339	191	P	V
2412MHz		2390	46.21	-7.79	54	43.35	27.15	6.98	31.27	339	191	A	V
	*	2412	102.25	-	-	99.33	27.19	7	31.27	339	191	P	V
	*	2412	94.66	-	-	91.74	27.19	7	31.27	339	191	A	V
													V
													V
		2361.1	52.8	-21.2	74	50.09	27.07	6.93	31.29	117	141	P	H
		2389.94	42.72	-11.28	54	39.86	27.15	6.98	31.27	117	141	A	H
	*	2437	102.28	-	-	99.23	27.28	7.03	31.26	117	141	P	H
	*	2437	94.68	-	-	91.63	27.28	7.03	31.26	117	141	A	H
802.11n		2484.88	53.31	-20.69	74	50.13	27.36	7.07	31.25	117	141	P	H
HT20		2488.73	43.5	-10.5	54	40.26	27.4	7.09	31.25	117	141	A	H
CH 06		2388.82	52.16	-21.84	74	49.31	27.15	6.98	31.28	334	195	P	V
2437MHz		2389.94	42.79	-11.21	54	39.93	27.15	6.98	31.27	334	195	A	V
	*	2437	102.11	-	-	99.06	27.28	7.03	31.26	334	195	P	V
	*	2437	94.54	-	-	91.49	27.28	7.03	31.26	334	195	A	V
		2493.07	53.92	-20.08	74	50.67	27.4	7.09	31.24	334	195	P	V
		2491.25	43.61	-10.39	54	40.37	27.4	7.09	31.25	334	195	A	V

	*	2462	102.33	-	-	99.22	27.32	7.05	31.26	112	143	P	H
	*	2462	94.93	-	-	91.82	27.32	7.05	31.26	112	143	A	H
		2485.88	58.69	-15.31	74	55.51	27.36	7.07	31.25	112	143	P	H
		2483.52	47.65	-6.35	54	44.47	27.36	7.07	31.25	112	143	A	H
802.11n													H
HT20													H
CH 11	*	2462	102.91	-	-	99.8	27.32	7.05	31.26	327	195	P	V
2462MHz	*	2462	95.07	-	-	91.96	27.32	7.05	31.26	327	195	A	V
		2483.8	60.19	-13.81	74	57.01	27.36	7.07	31.25	327	195	P	V
		2483.6	47.71	-6.29	54	44.53	27.36	7.07	31.25	327	195	A	V
													V
													V

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4824	31.05	-42.95	74	40.94	31.22	10.07	51.18	100	0	P	H
													H
802.11n													H
HT20													H
CH 01		4824	30.14	-43.86	74	40.03	31.22	10.07	51.18	100	0	P	V
2412MHz													V
													V
													V
		4874	31.17	-42.83	74	40.9	31.31	10.11	51.15	100	0	P	H
		7311	40.29	-33.71	74	42.29	36.27	12.53	50.8	100	0	P	H
802.11n													H
HT20													H
CH 06		4874	30.26	-43.74	74	39.99	31.31	10.11	51.15	100	0	P	V
2437MHz		7311	37.38	-36.62	74	39.38	36.27	12.53	50.8	100	0	P	V
													V
													V
		4924	30.93	-43.07	74	40.53	31.39	10.14	51.13	100	0	P	H
		7386	37.85	-36.15	74	39.41	36.51	12.73	50.8	100	0	P	H
802.11n													H
HT20													H
CH 11		4924	30.86	-43.14	74	40.46	31.39	10.14	51.13	100	0	P	V
2462MHz		7386	37.58	-36.42	74	39.14	36.51	12.73	50.8	100	0	P	V
													V
													V

Remark

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2382.8	55.45	-18.55	74	52.66	27.11	6.96	31.28	120	146	P	H
		2387.7	47.46	-6.54	54	44.61	27.15	6.98	31.28	120	146	A	H
	*	2422	97.94	-	-	94.95	27.23	7.02	31.26	120	146	P	H
	*	2422	89.81	-	-	86.82	27.23	7.02	31.26	120	146	A	H
802.11n		2486	53.15	-20.85	74	49.97	27.36	7.07	31.25	120	146	P	H
HT40		2494.68	44	-10	54	40.75	27.4	7.09	31.24	120	146	A	H
CH 03		2388.82	56.37	-17.63	74	53.52	27.15	6.98	31.28	343	192	P	V
2422MHz		2389.8	47.88	-6.12	54	45.02	27.15	6.98	31.27	343	192	A	V
	*	2422	97.37	-	-	94.38	27.23	7.02	31.26	343	192	P	V
	*	2422	89.77	-	-	86.78	27.23	7.02	31.26	343	192	A	V
		2497.13	53	-21	74	49.75	27.4	7.09	31.24	343	192	P	V
		2486.63	43.98	-10.02	54	40.8	27.36	7.07	31.25	343	192	A	V
		2389.8	54.21	-19.79	74	51.35	27.15	6.98	31.27	117	141	P	H
		2389.66	46.4	-7.6	54	43.55	27.15	6.98	31.28	117	141	A	H
	*	2437	99.01	-	-	95.96	27.28	7.03	31.26	117	141	P	H
	*	2437	91.38	-	-	88.33	27.28	7.03	31.26	117	141	A	H
802.11n		2484.32	55.27	-18.73	74	52.09	27.36	7.07	31.25	117	141	P	H
HT40		2483.97	46.48	-7.52	54	43.3	27.36	7.07	31.25	117	141	A	H
CH 06		2388.54	56.16	-17.84	74	53.31	27.15	6.98	31.28	350	191	P	V
2437MHz		2389.8	46.93	-7.07	54	44.07	27.15	6.98	31.27	350	191	A	V
	*	2437	99	-	-	95.95	27.28	7.03	31.26	350	191	P	V
	*	2437	91.18	-	-	88.13	27.28	7.03	31.26	350	191	A	V
		2486.35	54.9	-19.1	74	51.72	27.36	7.07	31.25	350	191	P	V
		2484.32	46.34	-7.66	54	43.16	27.36	7.07	31.25	350	191	A	V

802.11n HT40 CH 09 2452MHz		2386.44	52.41	-21.59	74	49.56	27.15	6.98	31.28	109	143	P	H
		2389.1	43.82	-10.18	54	40.97	27.15	6.98	31.28	109	143	A	H
	*	2452	99.93	-	-	96.88	27.28	7.03	31.26	109	143	P	H
	*	2452	92.17	-	-	89.12	27.28	7.03	31.26	109	143	A	H
		2484.46	60.19	-13.81	74	57.01	27.36	7.07	31.25	109	143	P	H
		2484.46	52.26	-1.74	54	49.08	27.36	7.07	31.25	109	143	A	H
		2387.14	53.68	-20.32	74	50.83	27.15	6.98	31.28	321	194	P	V
		2384.34	43.52	-10.48	54	40.73	27.11	6.96	31.28	321	194	A	V
	*	2452	99.31	-	-	96.26	27.28	7.03	31.26	321	194	P	V
	*	2452	91.42	-	-	88.37	27.28	7.03	31.26	321	194	A	V
		2484.46	60.25	-13.75	74	57.07	27.36	7.07	31.25	321	194	P	V
		2484.46	52.52	-1.48	54	49.34	27.36	7.07	31.25	321	194	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4844	30.61	-43.39	74	40.44	31.25	10.08	51.16	100	0	P	H
		7266	36.73	-37.27	74	38.9	36.17	12.46	50.8	100	0	P	H
802.11n													H
HT40													H
CH 03		4844	30.52	-43.48	74	40.35	31.25	10.08	51.16	100	0	P	V
2422MHz		7266	36.44	-37.56	74	38.61	36.17	12.46	50.8	100	0	P	V
													V
													V
		4874	30.51	-43.49	74	40.24	31.31	10.11	51.15	100	0	P	H
		7311	37.94	-36.06	74	39.94	36.27	12.53	50.8	100	0	P	H
802.11n													H
HT40													H
CH 06		4874	31.16	-42.84	74	40.89	31.31	10.11	51.15	100	0	P	V
2437MHz		7311	37.28	-36.72	74	39.28	36.27	12.53	50.8	100	0	P	V
													V
													V
		4904	30.4	-43.6	74	40.06	31.36	10.13	51.15	100	0	P	H
		7356	36.95	-37.05	74	38.69	36.41	12.65	50.8	100	0	P	H
802.11n													H
HT40													H
CH 09		4904	30.47	-43.53	74	40.13	31.36	10.13	51.15	100	0	P	V
2452MHz		7356	36.25	-37.75	74	37.99	36.41	12.65	50.8	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		33.51	35.73	-4.27	40	43.37	23.66	0.65	31.95	100	0	P	H
		72.12	29.14	-10.86	40	47.52	12.64	0.89	31.91	-	-	P	H
		122.34	26.89	-16.61	43.5	40.05	17.54	1.17	31.87	-	-	P	H
		360.2	38.46	-7.54	46	46.93	21.24	2.05	31.76	-	-	P	H
		503.7	35.98	-10.02	46	41.32	24.02	2.5	31.86	-	-	P	H
		600.3	35.39	-10.61	46	39.26	25.3	2.78	31.95	-	-	P	H
													H
													H
													H
													H
2.4GHz													H
802.11n													H
HT40		72.12	33.27	-6.73	40	51.65	12.64	0.89	31.91	-	-	P	V
LF		123.69	30.23	-13.27	43.5	43.34	17.58	1.18	31.87	-	-	P	V
		201.18	35.44	-8.06	43.5	50.28	15.46	1.51	31.81	-	-	P	V
		311.9	33.87	-12.13	46	43.87	19.88	1.87	31.75	-	-	P	V
		407.8	44.8	-1.2	46	52.01	22.31	2.25	31.77	119	150	QP	V
	*	407.8	47.73	1.73	46	54.94	22.31	2.25	31.77	119	150	P	V
		533.1	33.63	-12.37	46	38.71	24.2	2.61	31.89	100	50	QP	V
	*	533.1	46.15	0.15	46	51.23	24.2	2.61	31.89	100	50	P	V
													V
													V
													V
													V

Remark

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

Note symbol

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

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

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

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2389.24	59.76	-14.24	74	56.91	27.15	6.98	31.28	163	292	P	H
		2388.96	49.42	-4.58	54	46.57	27.15	6.98	31.28	163	292	A	H
	*	2422	103.43	-	-	100.44	27.23	7.02	31.26	163	292	P	H
	*	2422	95.4	-	-	92.41	27.23	7.02	31.26	163	292	A	H
802.11n		2487.68	54.59	-19.41	74	51.35	27.4	7.09	31.25	163	292	P	H
HT40		2492.51	45	-9	54	41.75	27.4	7.09	31.24	163	292	A	H
CH 03		2385.46	56.25	-17.75	74	53.46	27.11	6.96	31.28	141	33	P	V
2422MHz		2388.68	47.55	-6.45	54	44.7	27.15	6.98	31.28	141	33	A	V
	*	2422	100.18	-	-	97.19	27.23	7.02	31.26	141	33	P	V
	*	2422	92.28	-	-	89.29	27.23	7.02	31.26	141	33	A	V
		2487.33	52.99	-21.01	74	49.81	27.36	7.07	31.25	141	33	P	V
		2485.86	44.01	-9.99	54	40.83	27.36	7.07	31.25	141	33	A	V
		2389.94	53.28	-20.72	74	50.42	27.15	6.98	31.27	135	43	P	H
		2389.66	44.3	-9.7	54	41.45	27.15	6.98	31.28	135	43	A	H
	*	2452	103.76	-	-	100.71	27.28	7.03	31.26	135	43	P	H
	*	2452	95.78	-	-	92.73	27.28	7.03	31.26	135	43	P	H
802.11n		2486.98	61.21	-12.79	74	58.03	27.36	7.07	31.25	135	43	P	H
HT40		2483.5	51.32	-2.68	54	48.14	27.36	7.07	31.25	135	43	A	H
CH 09		2385.32	52.22	-21.78	74	49.43	27.11	6.96	31.28	159	96	P	V
2452MHz		2384.76	43.58	-10.42	54	40.79	27.11	6.96	31.28	159	96	A	V
	*	2452	101.07	-	-	98.02	27.28	7.03	31.26	159	96	P	V
	*	2452	93.09	-	-	90.04	27.28	7.03	31.26	159	96	A	V
		2488.31	57.88	-16.12	74	54.64	27.4	7.09	31.25	159	96	P	V
		2484.6	50.69	-3.31	54	47.51	27.36	7.07	31.25	159	96	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4844	30.67	-43.33	74	40.5	31.25	10.08	51.16	100	0	P	H
		7266	36.15	-37.85	74	38.32	36.17	12.46	50.8	100	0	P	H
802.11n													H
HT40													H
CH 03		4844	30.76	-43.24	74	40.59	31.25	10.08	51.16	100	0	P	V
2422MHz		7266	36.68	-37.32	74	38.85	36.17	12.46	50.8	100	0	P	V
													V
													V
		4904	30.37	-43.63	74	40.03	31.36	10.13	51.15	100	0	P	H
		7356	36.18	-37.82	74	37.92	36.41	12.65	50.8	100	0	P	H
802.11n													H
HT40													H
CH 09		4904	31.4	-42.6	74	41.06	31.36	10.13	51.15	100	0	P	V
2452MHz		7356	36.81	-37.19	74	38.55	36.41	12.65	50.8	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		32.7	35.3	-4.7	40	42.37	24.22	0.66	31.95	100	0	P	H
		91.83	30.44	-13.06	43.5	46.25	15.06	1.02	31.89	-	-	P	H
		216.03	28.5	-17.5	46	42.68	16.04	1.58	31.8	-	-	P	H
		360.2	40.35	-5.65	46	48.82	21.24	2.05	31.76	-	-	P	H
		456.1	34.08	-11.92	46	40.49	23.03	2.38	31.82	-	-	P	H
		533.1	37.48	-8.52	46	42.56	24.2	2.61	31.89	-	-	P	H
													H
													H
													H
													H
2.4GHz													H
802.11n													H
HT40		91.83	34.14	-9.36	43.5	49.95	15.06	1.02	31.89	-	-	P	V
LF		160.95	27.81	-15.69	43.5	41.61	16.71	1.33	31.84	-	-	P	V
		216.03	37.86	-8.14	46	52.04	16.04	1.58	31.8	-	-	P	V
		360.2	40.08	-5.92	46	48.55	21.24	2.05	31.76	100	10	P	V
		503.7	40.39	-5.61	46	45.73	24.02	2.5	31.86	-	-	P	V
		600.3	37.11	-8.89	46	40.98	25.3	2.78	31.95	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

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

Note symbol

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

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

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

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2386.23	57.99	-16.01	74	55.14	27.15	6.98	31.28	182	39	P	H
		2389.38	48.6	-5.4	54	45.75	27.15	6.98	31.28	182	39	A	H
	*	2412	108.52	-	-	105.6	27.19	7	31.27	182	39	P	H
	*	2412	101.01	-	-	98.09	27.19	7	31.27	182	39	A	H
802.11n													H
HT20													H
CH 01		2389.485	57.24	-16.76	74	54.39	27.15	6.98	31.28	103	44	P	V
2412MHz		2389.8	46.78	-7.22	54	43.92	27.15	6.98	31.27	103	44	A	V
	*	2412	105.23	-	-	102.31	27.19	7	31.27	103	44	P	V
	*	2412	97.78	-	-	94.86	27.19	7	31.27	103	44	A	V
													V
													V
		2376.22	52.77	-21.23	74	49.98	27.11	6.96	31.28	179	40	P	H
		2389.38	44.97	-9.03	54	42.12	27.15	6.98	31.28	179	40	A	H
	*	2437	107.64	-	-	104.59	27.28	7.03	31.26	179	40	P	H
	*	2437	100.08	-	-	97.03	27.28	7.03	31.26	179	40	A	H
802.11n		2484.74	54.09	-19.91	74	50.91	27.36	7.07	31.25	179	40	P	H
HT20		2490.97	45.17	-8.83	54	41.93	27.4	7.09	31.25	179	40	A	H
CH 06		2389.94	52.9	-21.1	74	50.04	27.15	6.98	31.27	116	35	P	V
2437MHz		2383.64	43.88	-10.12	54	41.09	27.11	6.96	31.28	116	35	A	V
	*	2437	104.38	-	-	101.33	27.28	7.03	31.26	116	35	P	V
	*	2437	96.55	-	-	93.5	27.28	7.03	31.26	116	35	A	V
		2496.92	53.7	-20.3	74	50.45	27.4	7.09	31.24	116	35	P	V
		2484.18	44.64	-9.36	54	41.46	27.36	7.07	31.25	116	35	A	V

	*	2462	106.63	-	-	103.52	27.32	7.05	31.26	177	34	P	H
	*	2462	98.85	-	-	95.74	27.32	7.05	31.26	177	34	A	H
		2484.92	60.43	-13.57	74	57.25	27.36	7.07	31.25	177	34	P	H
		2483.52	48.89	-5.11	54	45.71	27.36	7.07	31.25	177	34	A	H
802.11n													H
HT20													H
CH 11	*	2462	104.59	-	-	101.48	27.32	7.05	31.26	103	37	P	V
2462MHz	*	2462	97.09	-	-	93.98	27.32	7.05	31.26	103	37	A	V
		2485	58.89	-15.11	74	55.71	27.36	7.07	31.25	103	37	P	V
		2483.52	48.33	-5.67	54	45.15	27.36	7.07	31.25	103	37	A	V
													V
													V

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4824	30.73	-43.27	74	40.62	31.22	10.07	51.18	100	0	P	H
													H
802.11n													H
HT20													H
CH 01		4824	30.83	-43.17	74	40.72	31.22	10.07	51.18	100	0	P	V
2412MHz													V
													V
													V
		4874	30.57	-43.43	74	40.3	31.31	10.11	51.15	100	0	P	H
		7311	39.32	-34.68	74	41.32	36.27	12.53	50.8	100	0	P	H
802.11n													H
HT20													H
CH 06		4874	31.03	-42.97	74	40.76	31.31	10.11	51.15	100	0	P	V
2437MHz		7311	41.37	-32.63	74	43.37	36.27	12.53	50.8	100	0	P	V
													V
													V
		4926	30.89	-43.11	74	40.49	31.39	10.14	51.13	100	0	P	H
		7386	37.93	-36.07	74	39.49	36.51	12.73	50.8	100	0	P	H
802.11n													H
HT20													H
CH 11		4924	30.91	-43.09	74	40.51	31.39	10.14	51.13	100	0	P	V
2462MHz		7386	36.76	-37.24	74	38.32	36.51	12.73	50.8	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2378.88	57.73	-16.27	74	54.94	27.11	6.96	31.28	187	46	P	H
		2387.42	47.81	-6.19	54	44.96	27.15	6.98	31.28	187	46	A	H
	*	2422	100.2	-	-	97.21	27.23	7.02	31.26	187	46	P	H
	*	2422	92.22	-	-	89.23	27.23	7.02	31.26	187	46	A	H
802.11n		2495.8	54.58	-19.42	74	51.33	27.4	7.09	31.24	187	46	P	H
HT40		2486.21	44.24	-9.76	54	41.06	27.36	7.07	31.25	187	46	A	H
CH 03		2383.5	55.79	-18.21	74	53	27.11	6.96	31.28	100	28	P	V
2422MHz		2389.24	47.86	-6.14	54	45.01	27.15	6.98	31.28	100	28	A	V
	*	2422	98.82	-	-	95.83	27.23	7.02	31.26	100	28	P	V
	*	2422	90.83	-	-	87.84	27.23	7.02	31.26	100	28	A	V
		2494.75	53.12	-20.88	74	49.87	27.4	7.09	31.24	100	28	P	V
		2496.22	44	-10	54	40.75	27.4	7.09	31.24	100	28	A	V
		2389.94	57.28	-16.72	74	54.42	27.15	6.98	31.27	132	33	P	H
		2389.94	47.45	-6.55	54	44.59	27.15	6.98	31.27	132	33	A	H
	*	2437	104.76	-	-	101.71	27.28	7.03	31.26	132	33	P	H
	*	2437	96.45	-	-	93.4	27.28	7.03	31.26	132	33	A	H
802.11n		2484.04	55.83	-18.17	74	52.65	27.36	7.07	31.25	132	33	P	H
HT40		2484.04	46.57	-7.43	54	43.39	27.36	7.07	31.25	132	33	A	H
CH 06		2389.8	55.56	-18.44	74	52.7	27.15	6.98	31.27	117	42	P	V
2437MHz		2389.8	46.5	-7.5	54	43.64	27.15	6.98	31.27	117	42	A	V
	*	2437	101.87	-	-	98.82	27.28	7.03	31.26	117	42	P	V
	*	2437	94.39	-	-	91.34	27.28	7.03	31.26	117	42	A	V
		2485.3	54.4	-19.6	74	51.22	27.36	7.07	31.25	117	42	P	V
		2484.81	45.09	-8.91	54	41.91	27.36	7.07	31.25	117	42	A	V

802.11n HT40 CH 09 2452MHz		2381.4	52.49	-21.51	74	49.7	27.11	6.96	31.28	178	37	P	H
		2389.94	44.2	-9.8	54	41.34	27.15	6.98	31.27	178	37	A	H
	*	2452	102.12	-	-	99.07	27.28	7.03	31.26	178	37	P	H
	*	2452	94.66	-	-	91.61	27.28	7.03	31.26	178	37	A	H
		2484.6	59.63	-14.37	74	56.45	27.36	7.07	31.25	178	37	P	H
		2483.9	49.98	-4.02	54	46.8	27.36	7.07	31.25	178	37	A	H
		2383.08	52.64	-21.36	74	49.85	27.11	6.96	31.28	104	38	P	V
		2386.58	43.51	-10.49	54	40.66	27.15	6.98	31.28	104	38	A	V
	*	2452	99.89	-	-	96.84	27.28	7.03	31.26	104	38	P	V
	*	2452	91.82	-	-	88.77	27.28	7.03	31.26	104	38	A	V
		2483.62	56.21	-17.79	74	53.03	27.36	7.07	31.25	104	38	P	V
		2484.53	48.2	-5.8	54	45.02	27.36	7.07	31.25	104	38	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4844	31.12	-42.88	74	40.95	31.25	10.08	51.16	100	0	P	H
		7266	36.58	-37.42	74	38.75	36.17	12.46	50.8	100	0	P	H
802.11n													H
HT40													H
CH 03		4844	30.83	-43.17	74	40.66	31.25	10.08	51.16	100	0	P	V
2422MHz		7266	36.91	-37.09	74	39.08	36.17	12.46	50.8	100	0	P	V
													V
													V
		4874	31.49	-42.51	74	41.22	31.31	10.11	51.15	100	0	P	H
		7311	37.86	-36.14	74	39.86	36.27	12.53	50.8	100	0	P	H
802.11n													H
HT40													H
CH 06		4874	30.6	-43.4	74	40.33	31.31	10.11	51.15	100	0	P	V
2437MHz		7311	37.35	-36.65	74	39.35	36.27	12.53	50.8	100	0	P	V
													V
													V
		4904	30.35	-43.65	74	40.01	31.36	10.13	51.15	100	0	P	H
		7356	37.54	-36.46	74	39.28	36.41	12.65	50.8	100	0	P	H
802.11n													H
HT40													H
CH 09		4904	31.25	-42.75	74	40.91	31.36	10.13	51.15	100	0	P	V
2452MHz		7356	37.21	-36.79	74	38.95	36.41	12.65	50.8	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		32.97	36.26	-3.74	40	43.33	24.22	0.66	31.95	100	0	P	H
		72.12	28.66	-11.34	40	47.04	12.64	0.89	31.91	-	-	P	H
		243.57	29.45	-16.55	46	41.49	18.06	1.68	31.78	-	-	P	H
		360.2	37.42	-8.58	46	45.89	21.24	2.05	31.76	-	-	P	H
		503.7	40.82	-5.18	46	46.16	24.02	2.5	31.86	-	-	P	H
		600.3	35.51	-10.49	46	39.38	25.3	2.78	31.95	-	-	P	H
													H
													H
													H
													H
2.4GHz													H
802.11n													H
HT40		72.12	32.24	-7.76	40	50.62	12.64	0.89	31.91	-	-	P	V
LF		220.08	32.91	-13.09	46	47.12	16	1.59	31.8	-	-	P	V
		264.09	33.91	-12.09	46	44.38	19.56	1.74	31.77	-	-	P	V
		360.2	40.77	-5.23	46	49.24	21.24	2.05	31.76	-	-	P	V
		456.1	39.62	-6.38	46	46.03	23.03	2.38	31.82	-	-	P	V
		531	36.4	-9.6	46	41.51	24.18	2.6	31.89	100	65	QP	V
	*	531	47.43	1.43	46	52.54	24.18	2.6	31.89	100	65	P	V
													V
													V
													V
													V
													V

Remark

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

Note symbol

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

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

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

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix C. Radiated Spurious Emission Plots

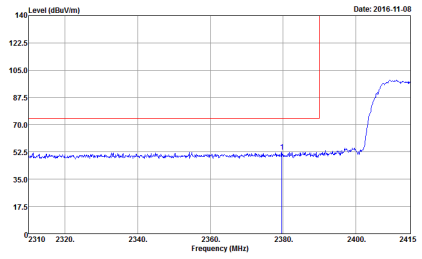
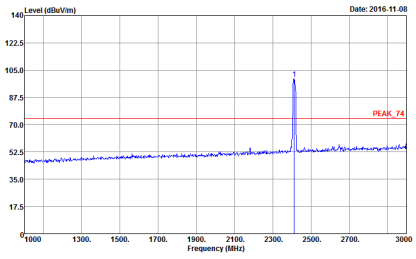
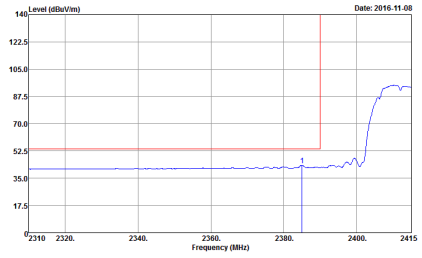
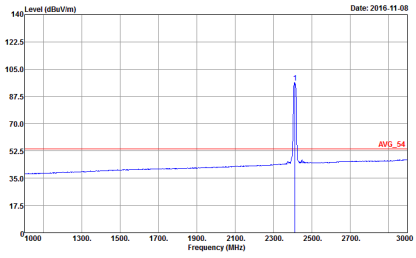
Test Engineer :	Bill Chang, Wilson Wu and Alex Jeng	**Temperature :**	25~26°C
		Relative Humidity :	40~42%

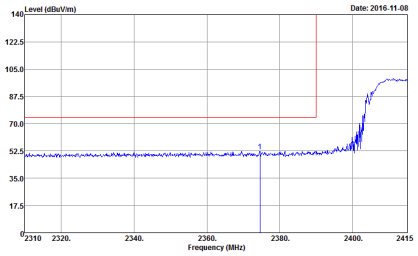
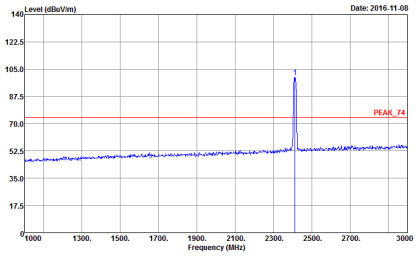
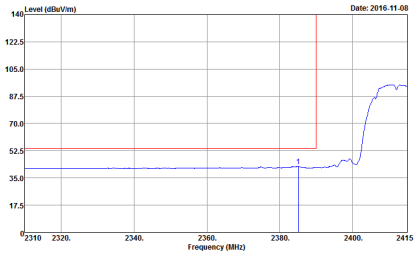
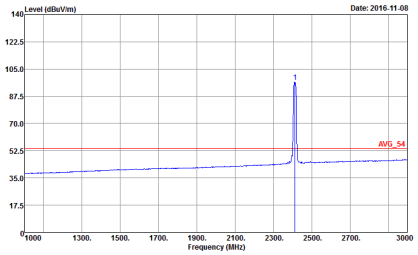
Note symbol

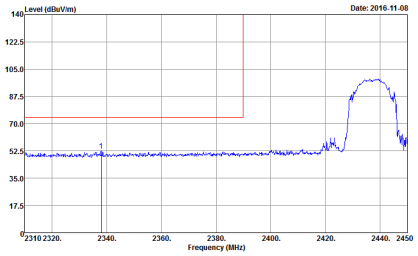
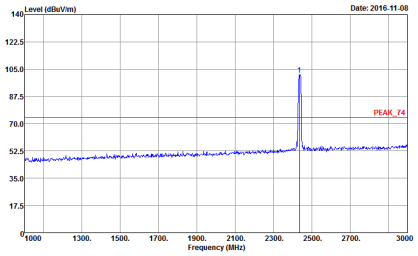
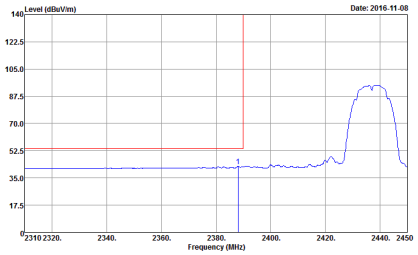
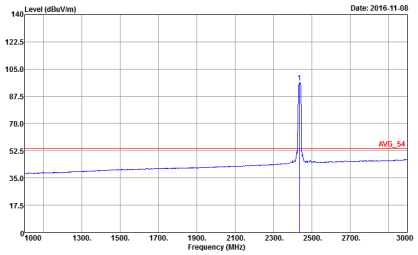
-L	**Low channel location**
-R	**High channel location**

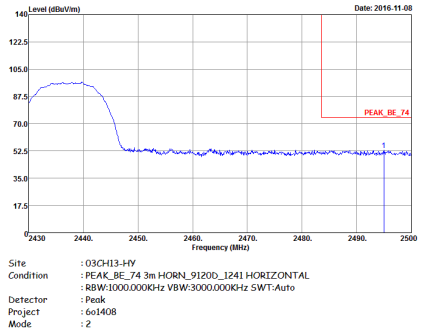
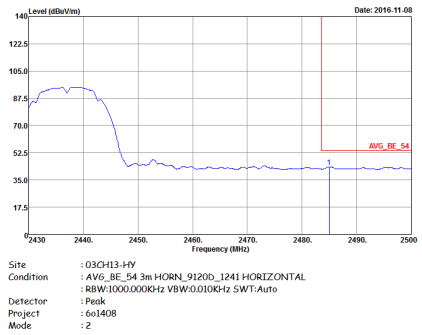
2.4GHz 2400~2483.5MHz

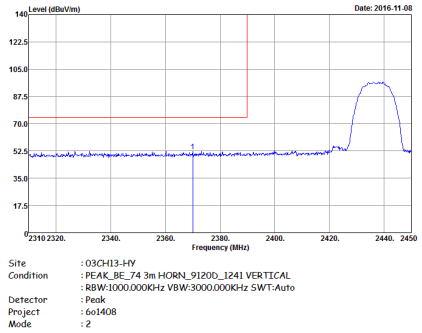
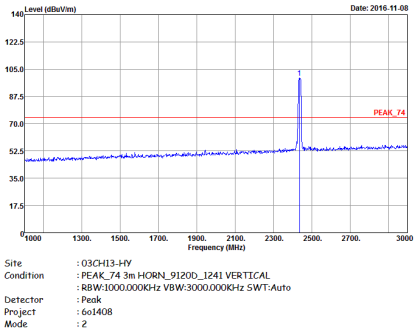
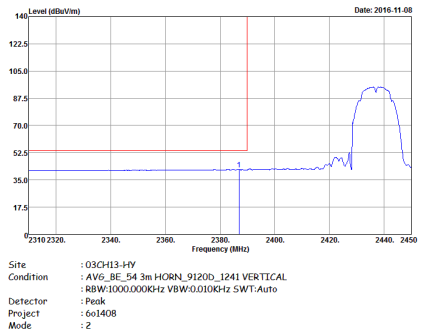
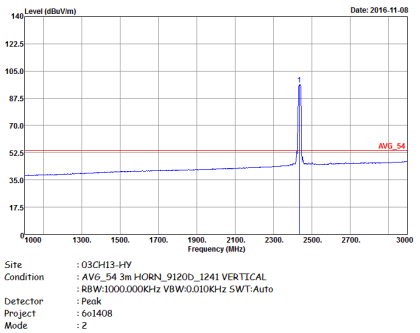
WIFI 802.11b (Band Edge @ 3m)

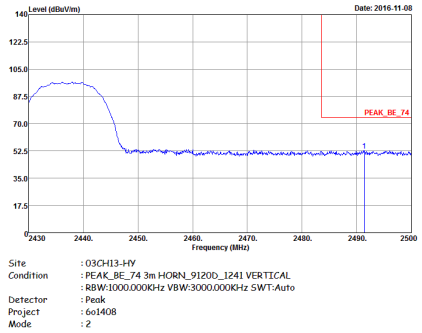
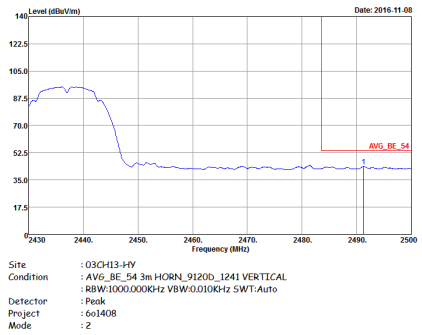
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

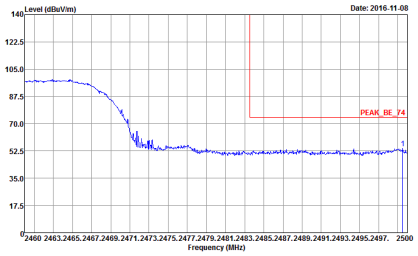
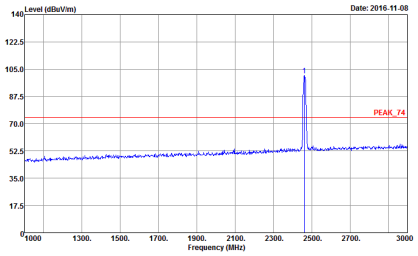
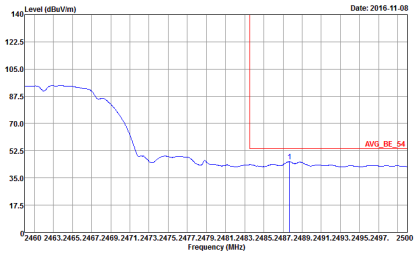
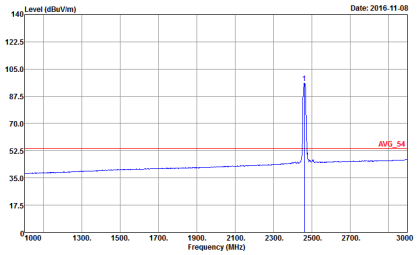
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 1	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 1
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 1	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 1

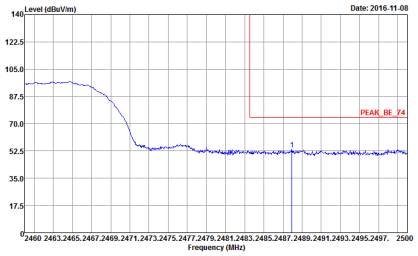
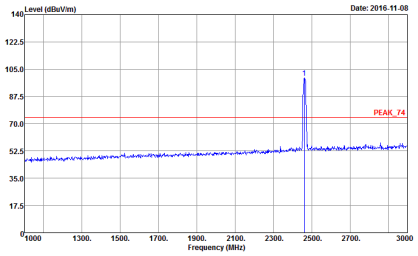
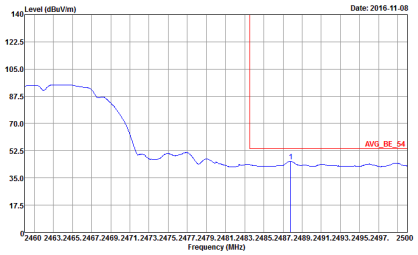
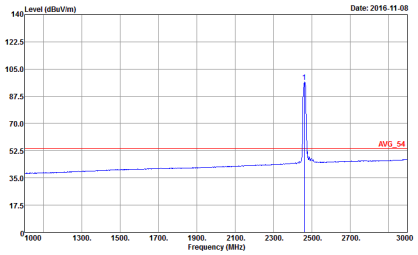
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 2	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 2
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 2	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 2

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

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 2	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 2
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 2	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 2

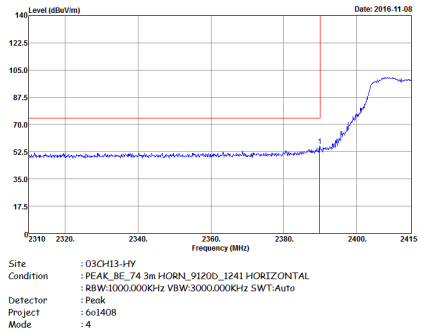
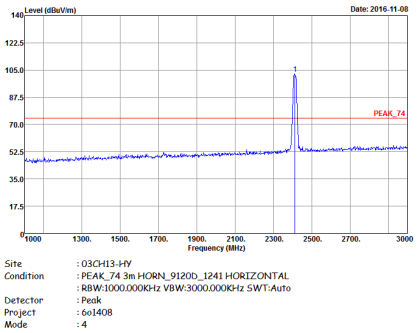
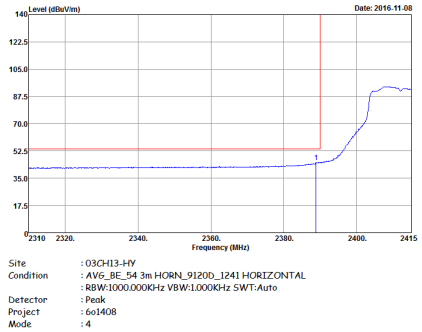
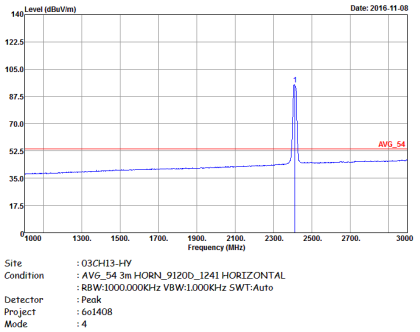
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

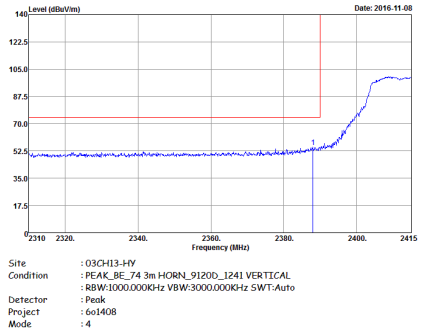
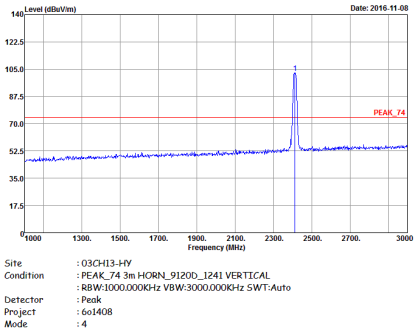
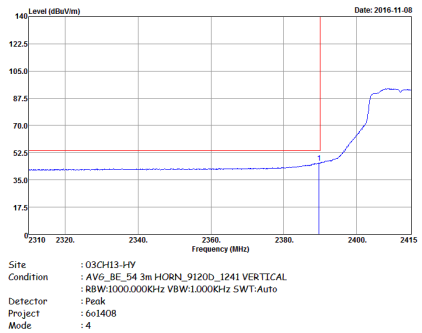
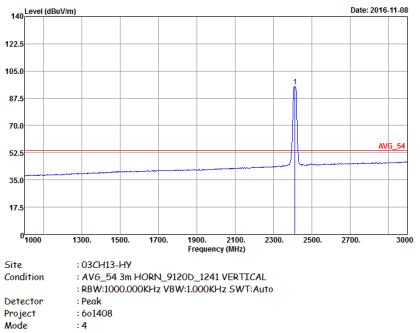
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 3	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 3
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 3	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 3

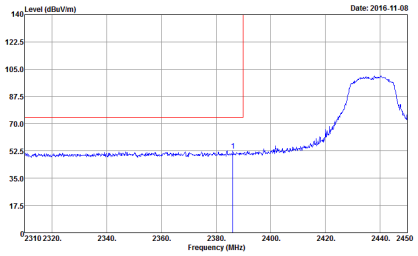
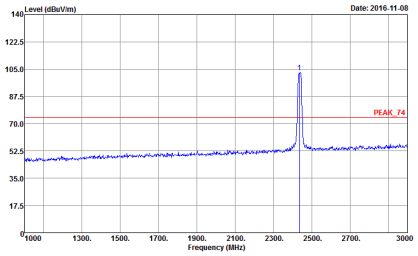
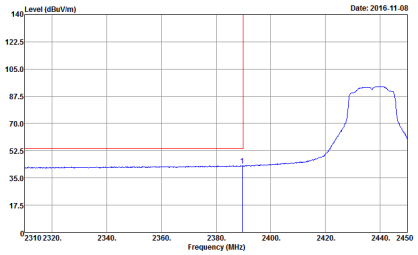
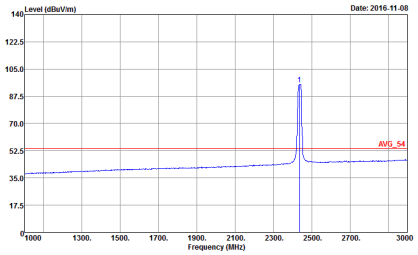
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 3	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 3
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 3	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 3

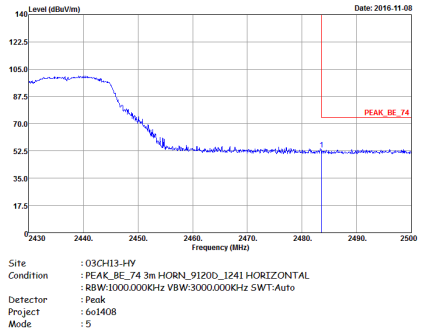
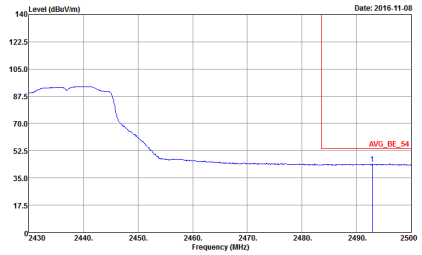
2.4GHz 2400~2483.5MHz

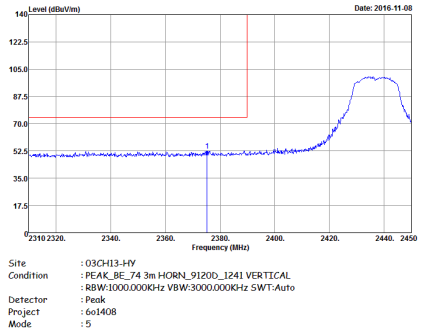
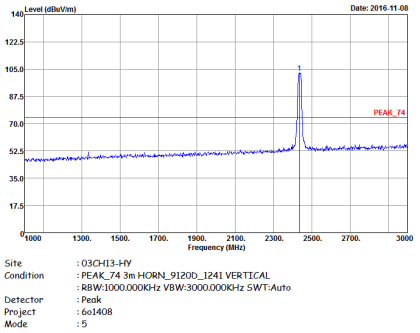
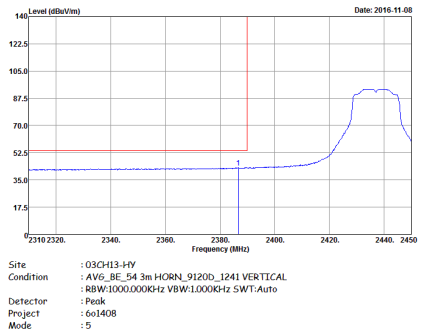
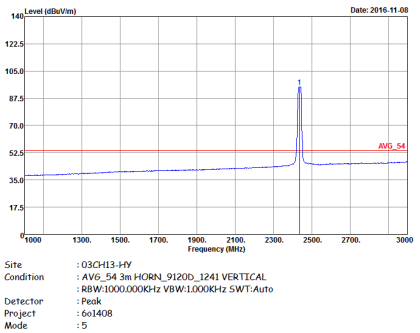
WIFI 802.11g (Band Edge @ 3m)

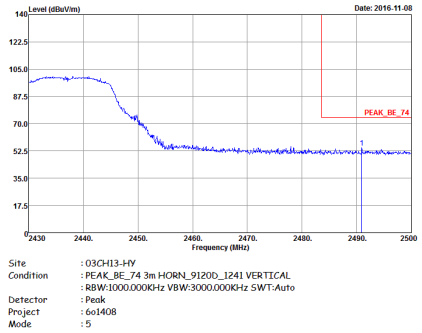
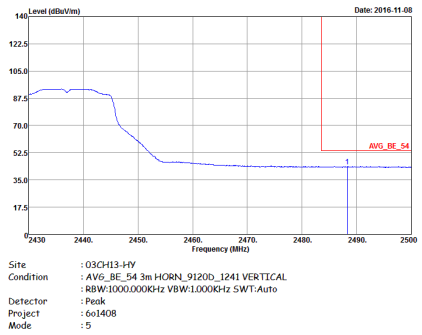
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

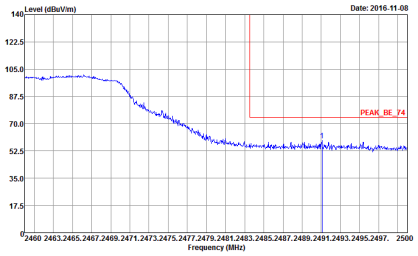
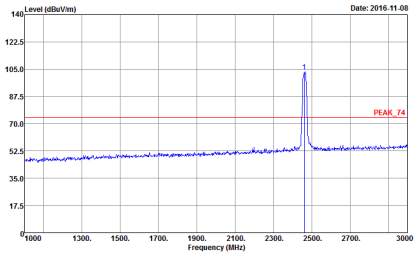
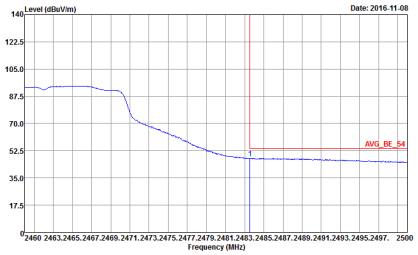
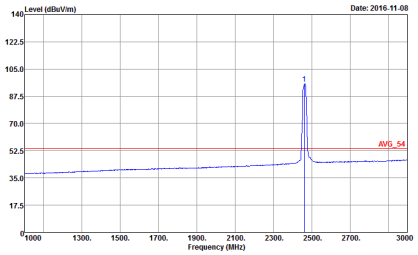
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 4	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 4
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 4	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 4

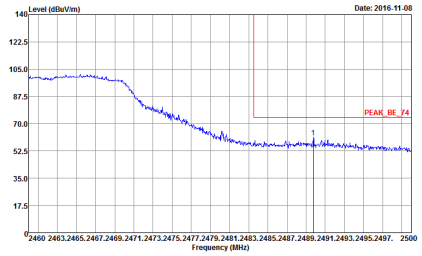
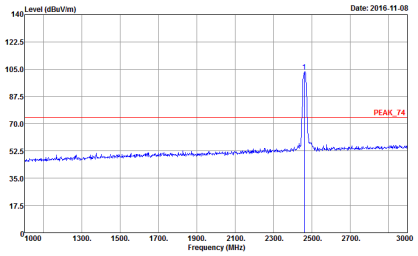
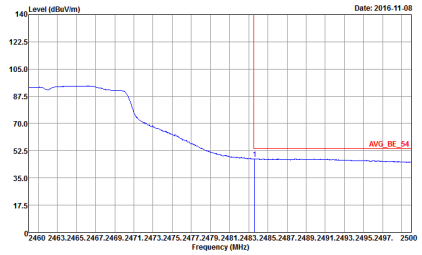
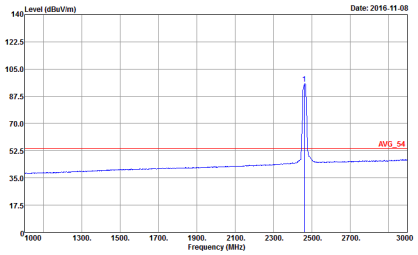
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 5
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 5	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 5

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 5	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 5	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 5
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 5	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 5

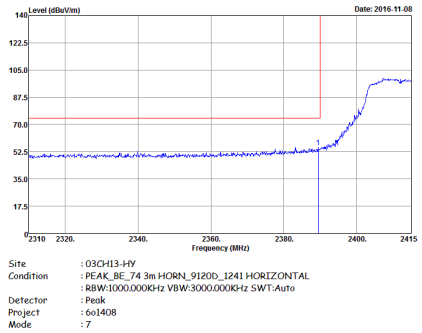
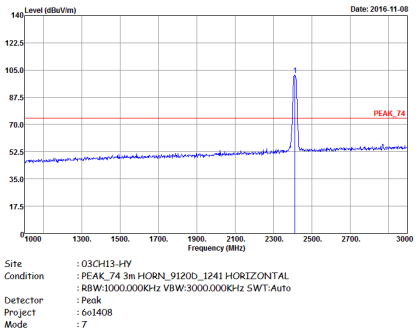
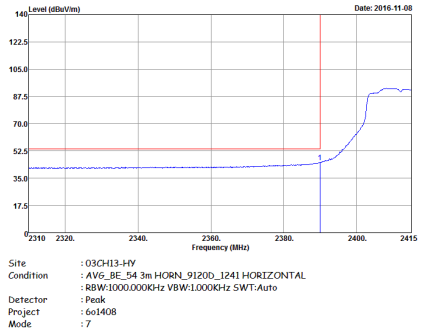
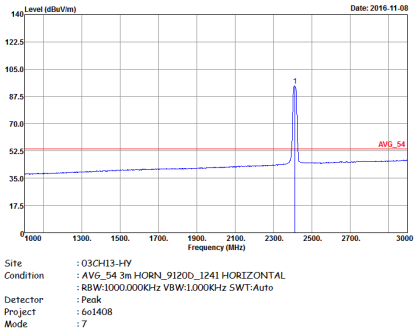
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

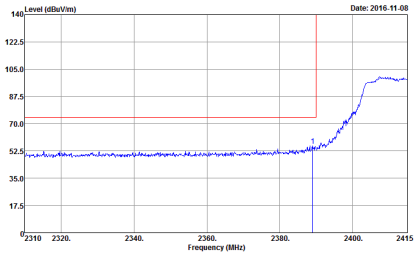
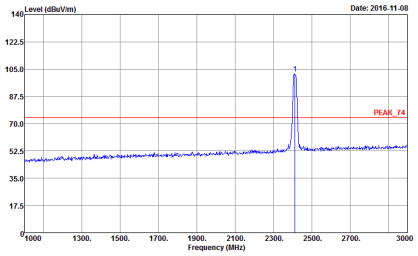
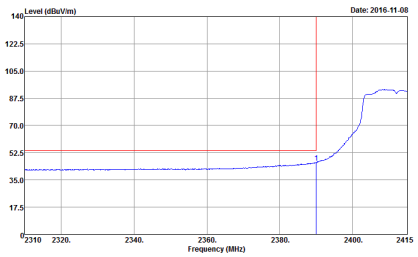
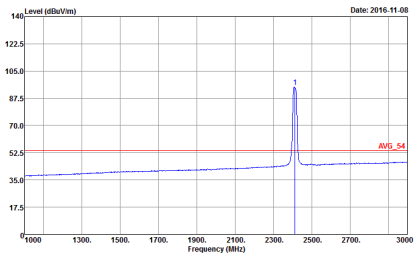
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 6	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 6
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 6	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 6

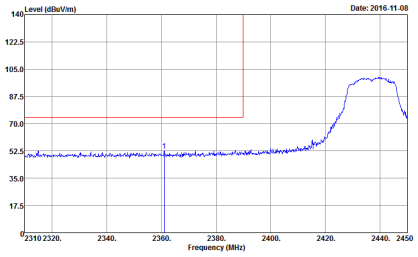
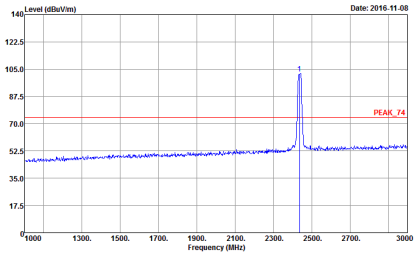
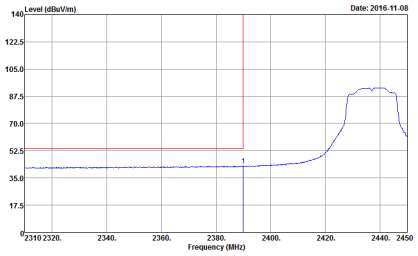
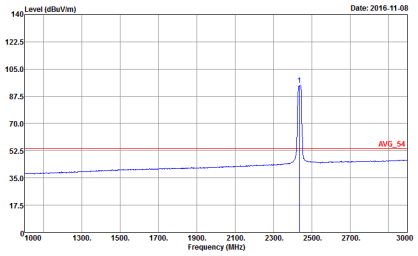
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 6	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 6
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 6	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 6

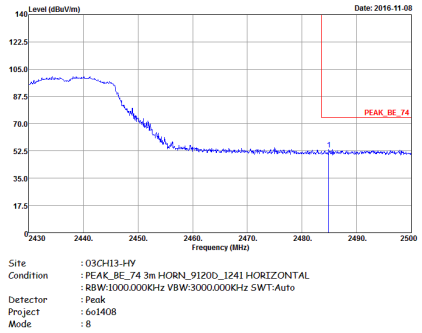
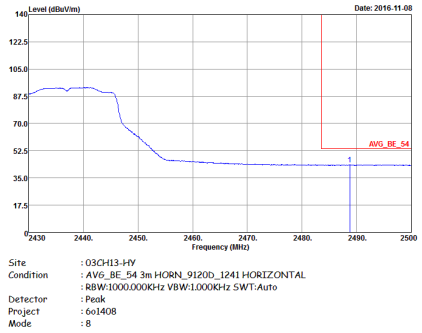
2.4GHz 2400~2483.5MHz

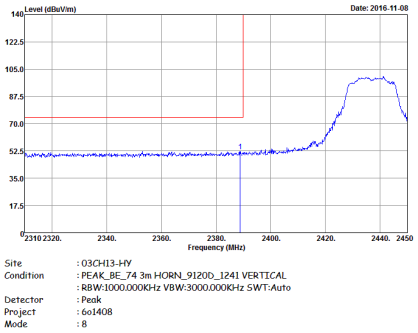
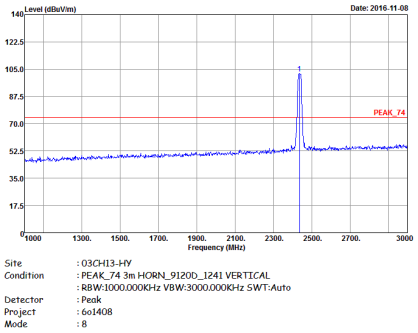
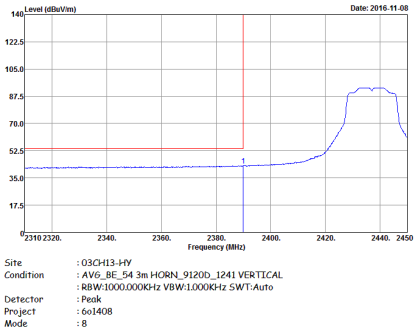
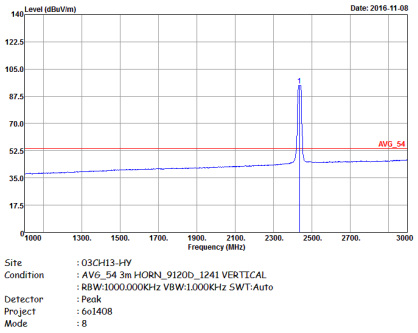
WIFI 802.11n HT20 (Band Edge @ 3m)

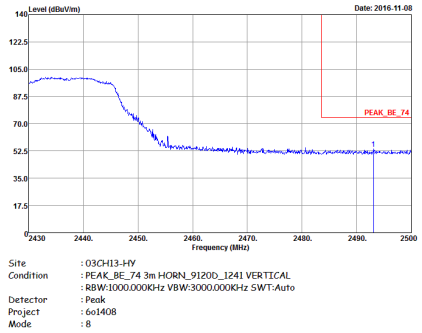
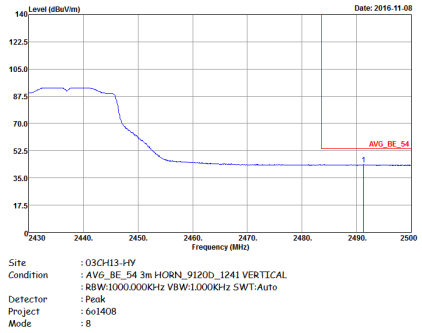
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

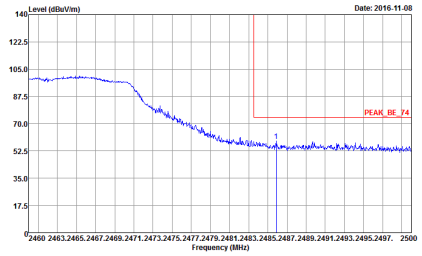
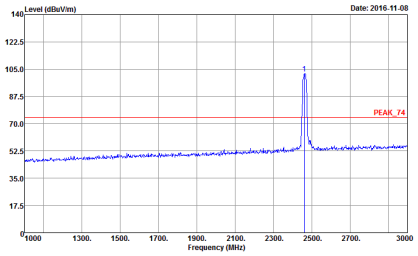
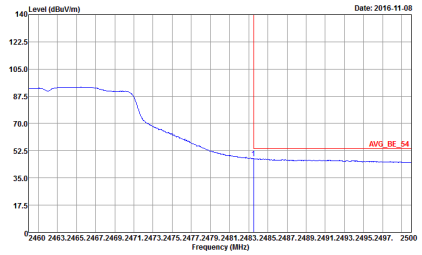
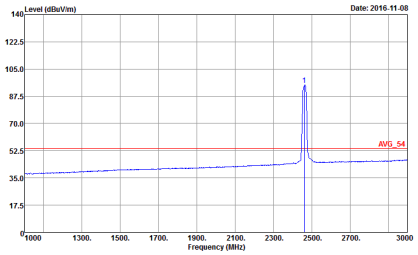
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 7	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 7
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 7	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 7

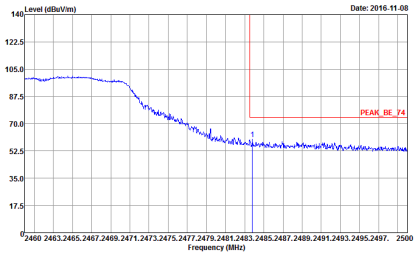
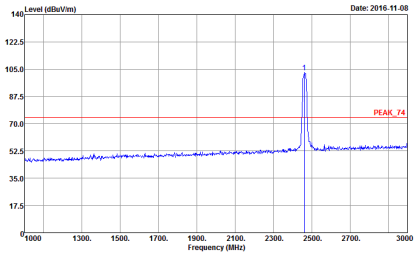
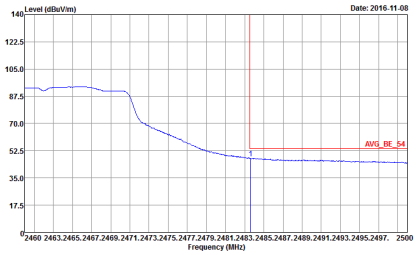
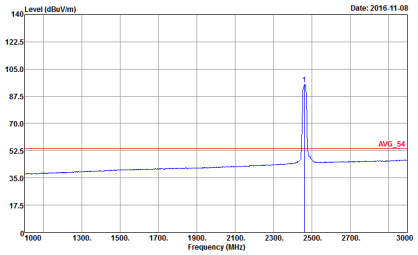
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 8	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 8
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 8	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 8

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 8	Left blank
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 8	Left blank

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

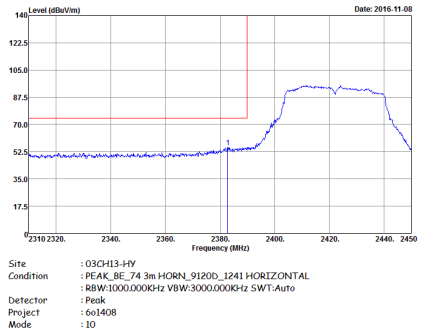
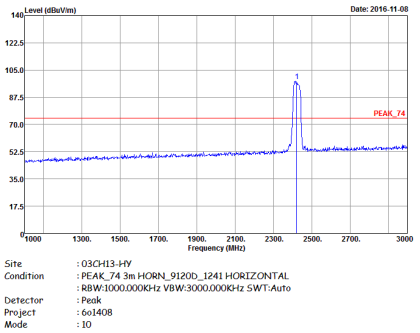
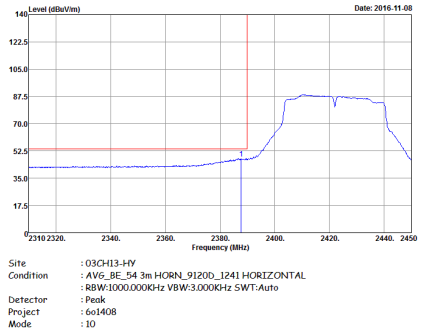
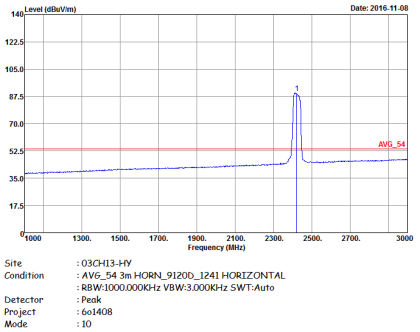
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 8	Left Blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 8	Left Blank

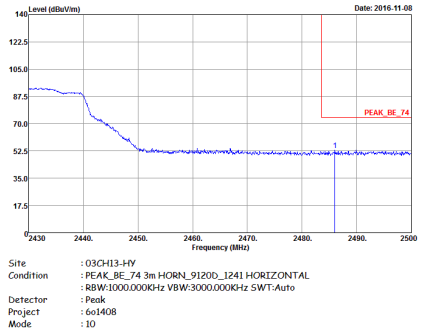
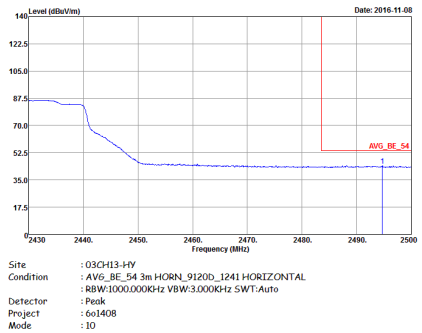
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 9	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 9
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 9	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 9

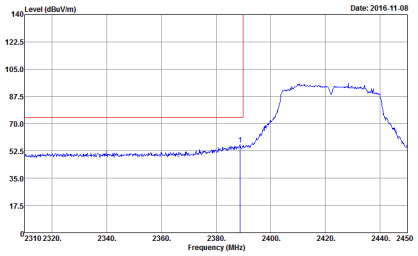
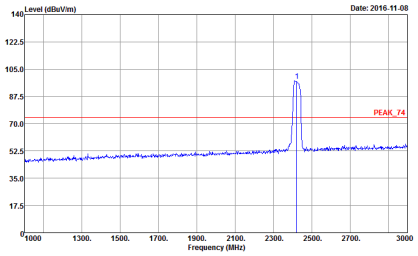
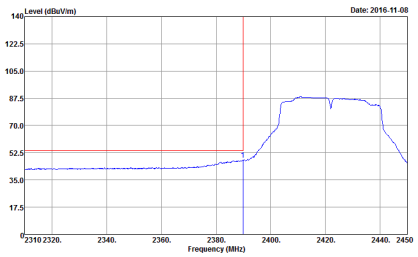
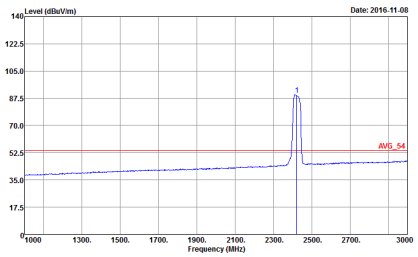
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 9	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 9
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 9	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 9

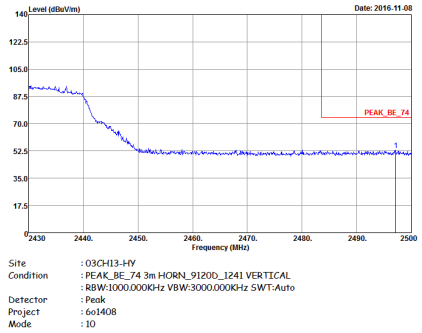
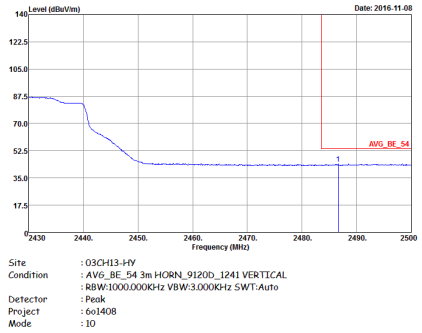
2.4GHz 2400~2483.5MHz

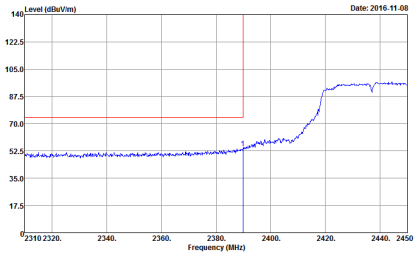
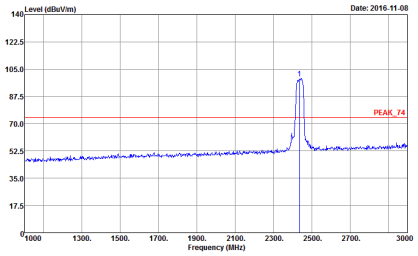
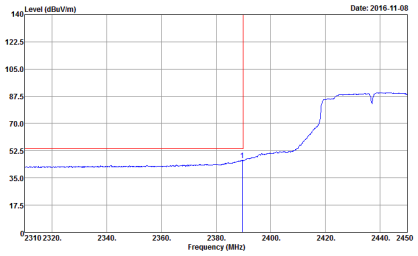
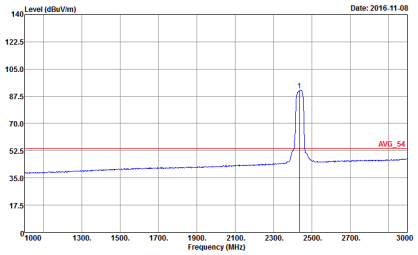
WIFI 802.11n HT40 (Band Edge @ 3m)

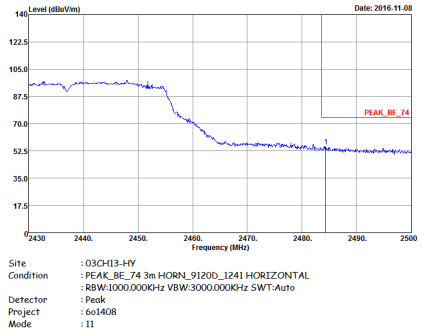
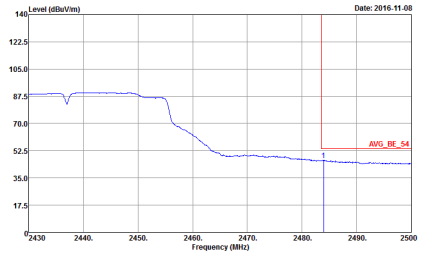
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		

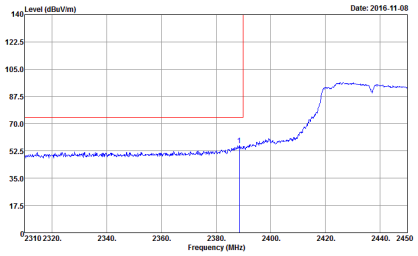
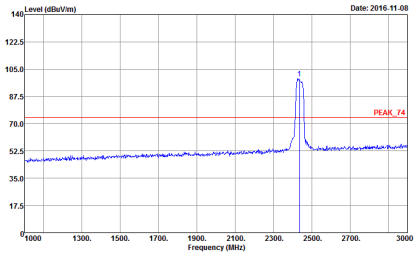
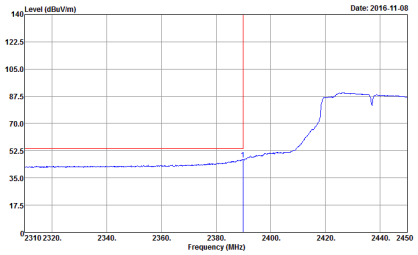
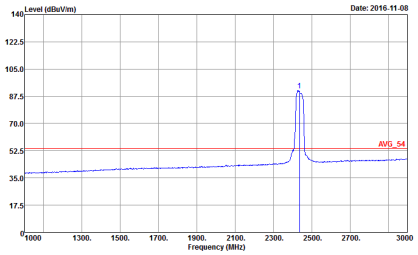
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 10	Left Blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 10	Left Blank

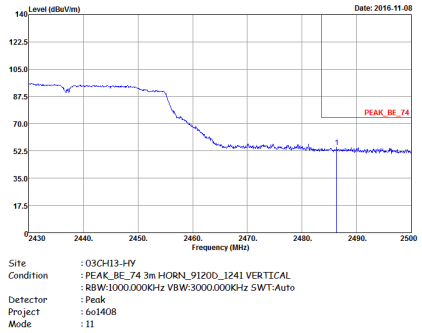
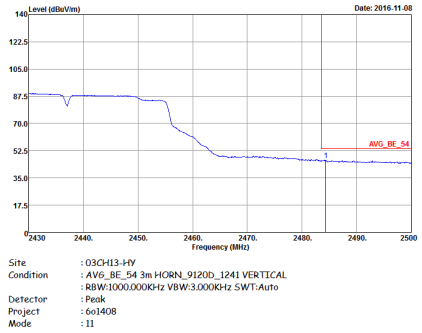
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 10	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 10
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 10	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 10

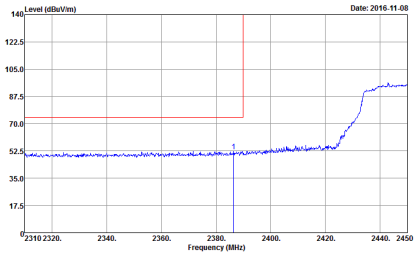
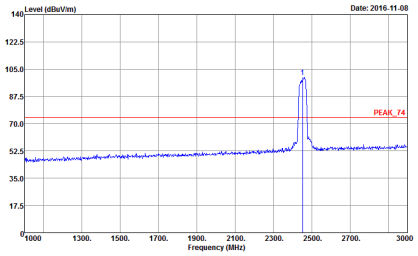
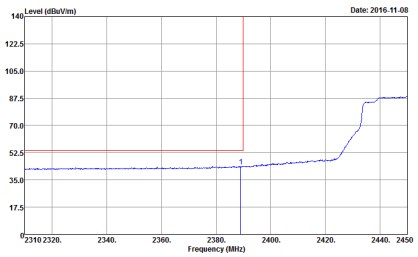
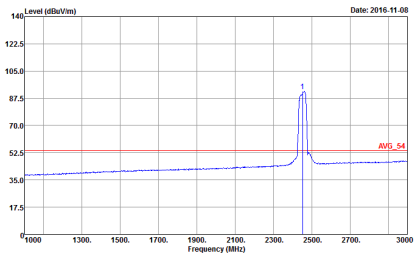
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 10	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 10	Left blank

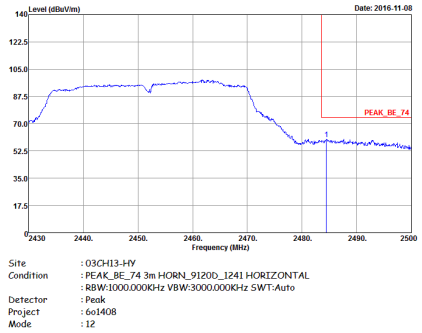
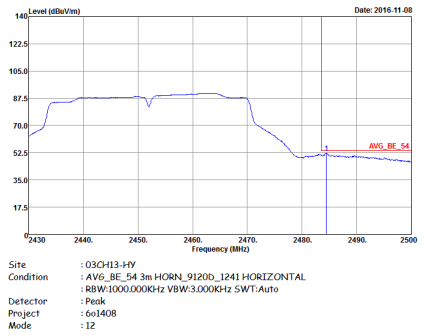
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 11	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 11
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 11	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 11

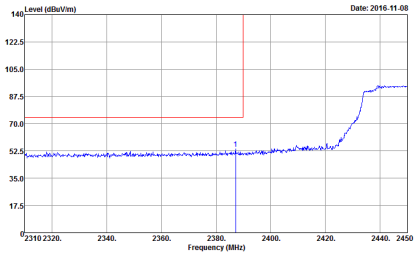
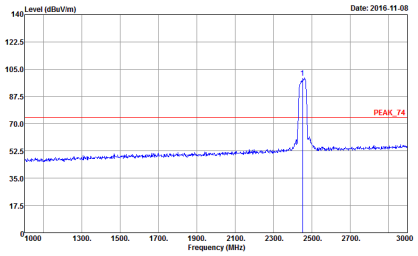
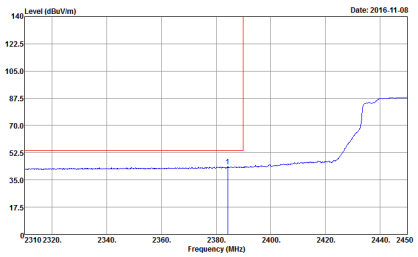
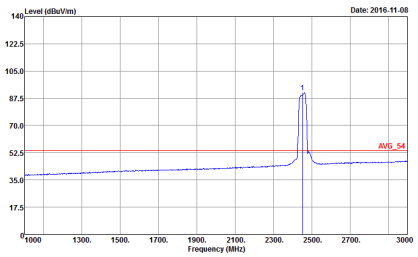
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 11	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 11	Left blank

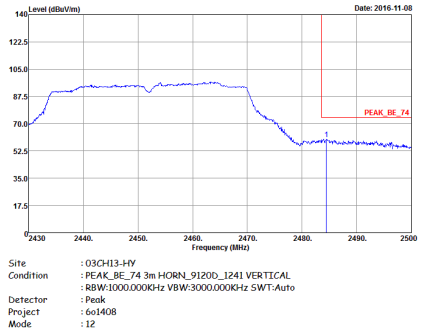
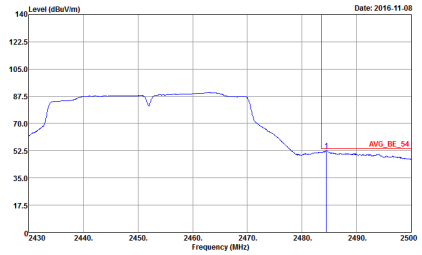
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 11	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 11
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 11	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 11

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 11	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 11	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 12	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 12
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 12	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 12

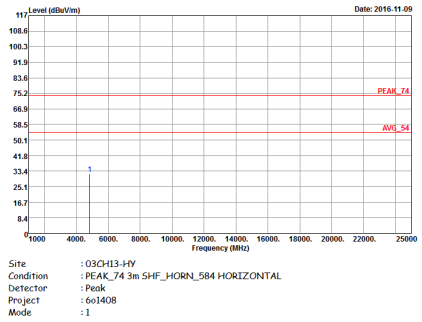
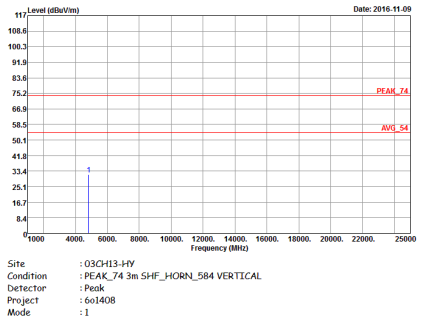
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

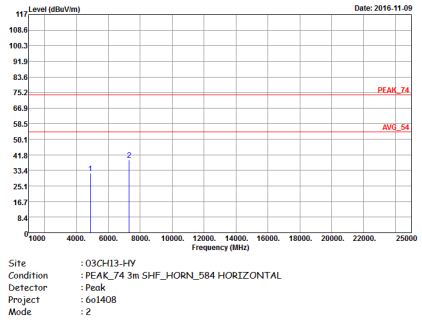
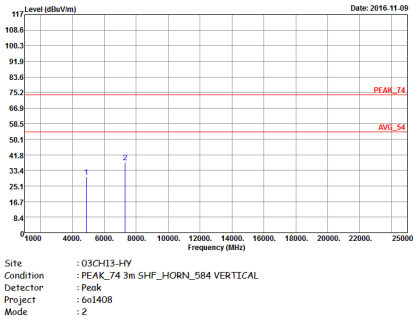
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 12	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 12
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 12	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 12

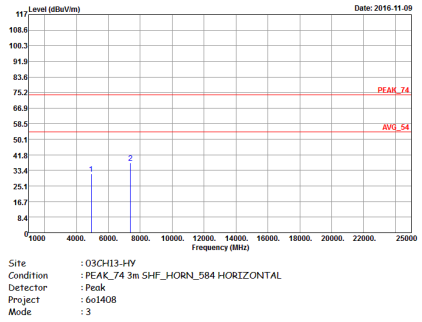
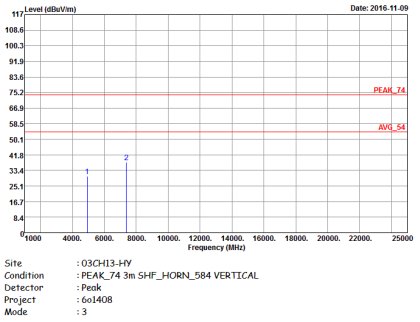
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 12	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 12	Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

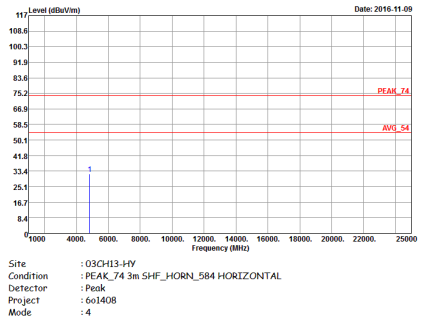
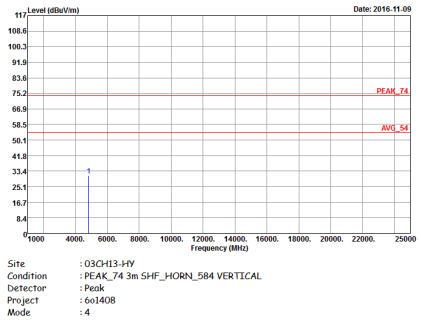
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

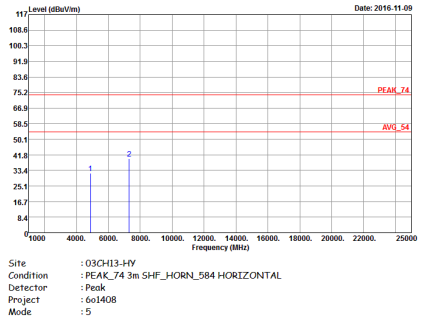
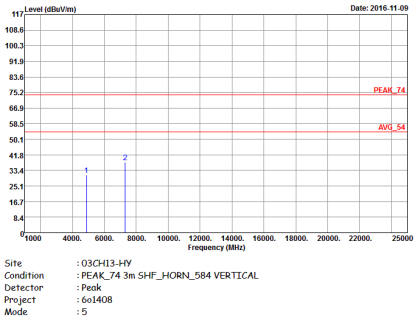
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.		

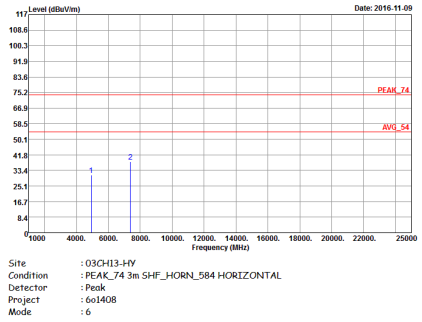
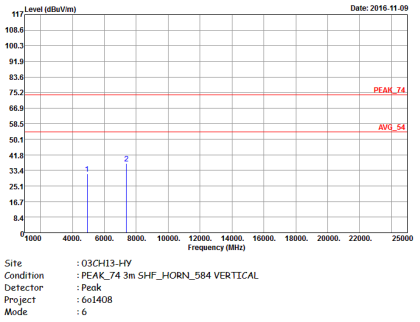
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.		

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

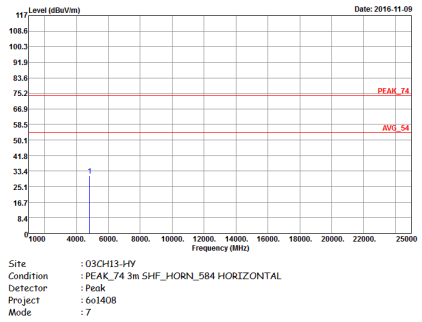
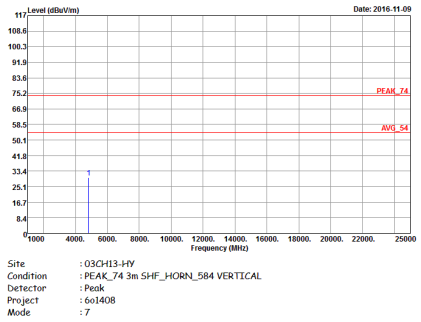
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

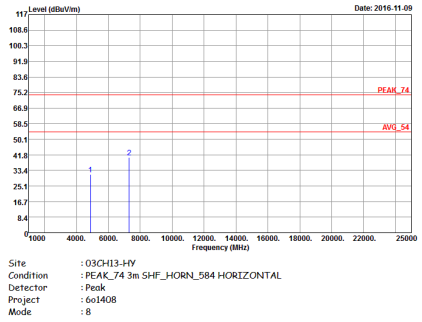
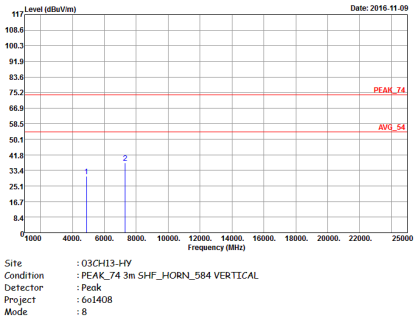
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.		

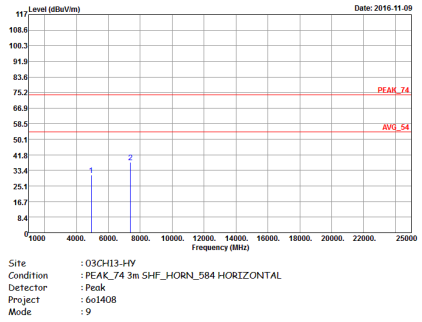
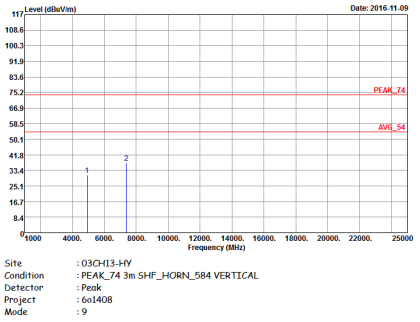
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.		

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

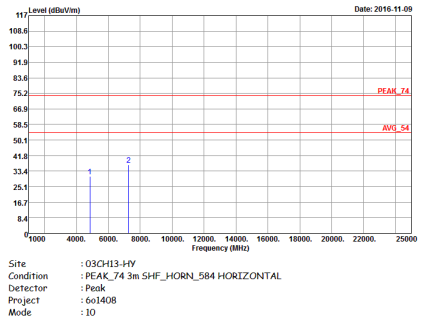
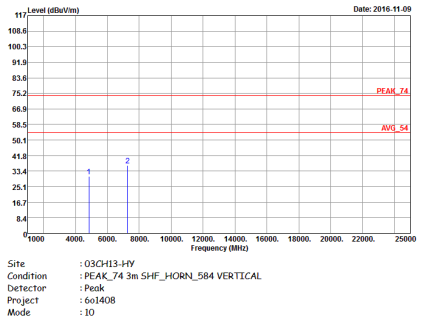
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

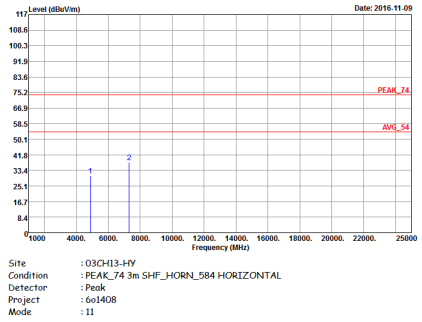
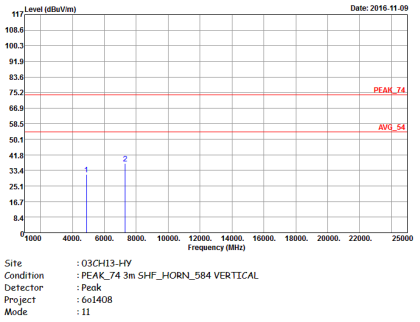
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.		

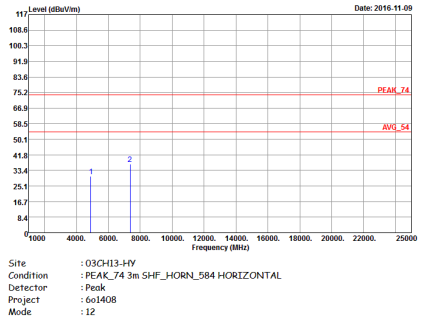
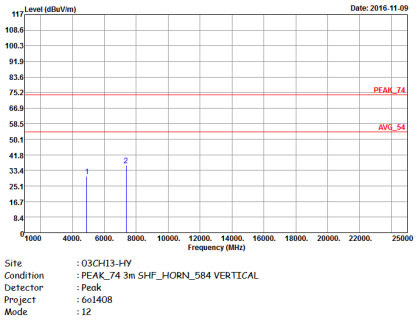
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.		

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

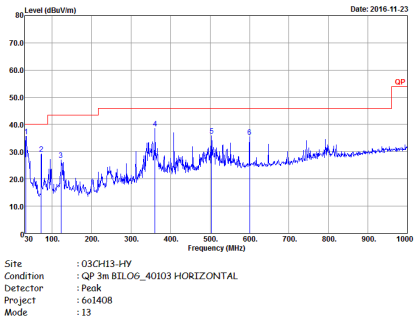
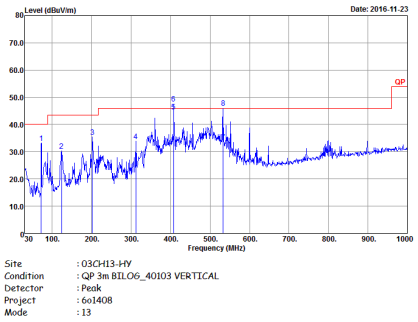
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.		

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

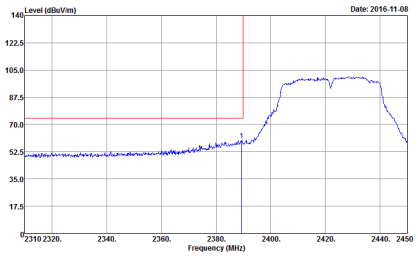
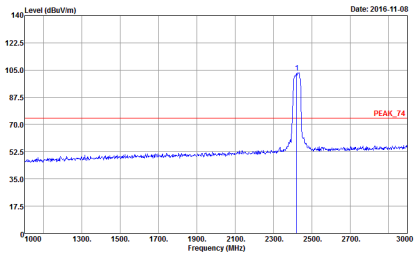
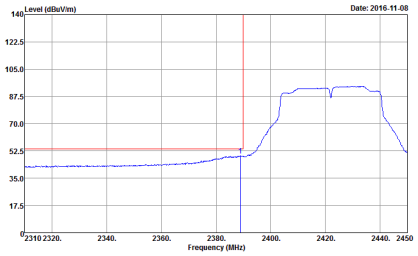
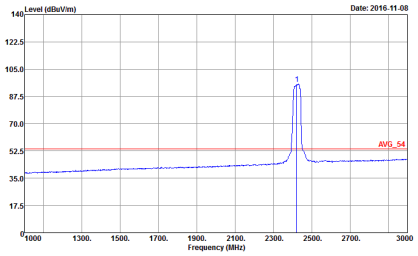
Emission below 1GHz

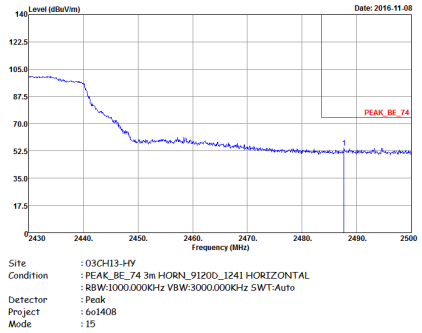
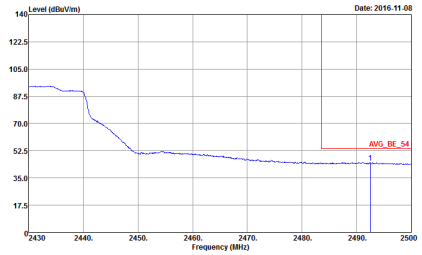
2.4GHz WIFI 802.11n HT40 (LF)

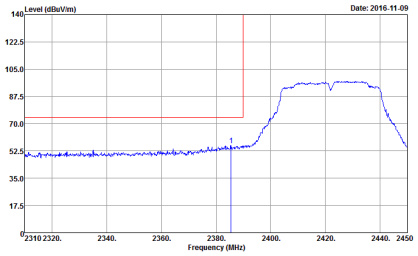
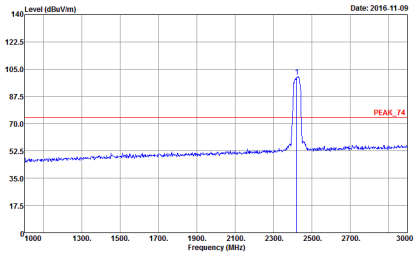
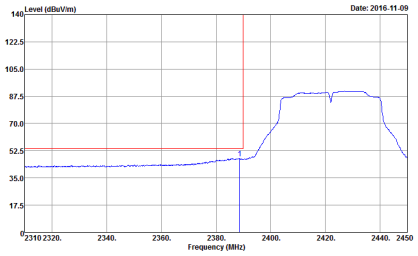
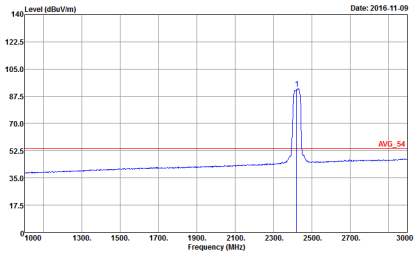
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT40 LF	
1	Horizontal	Vertical
QP / Peak		

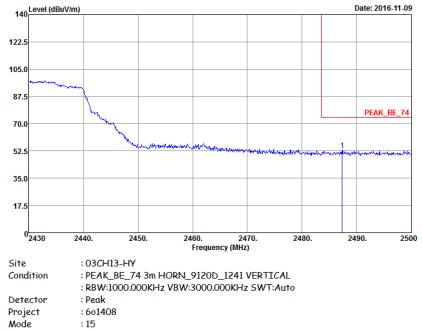
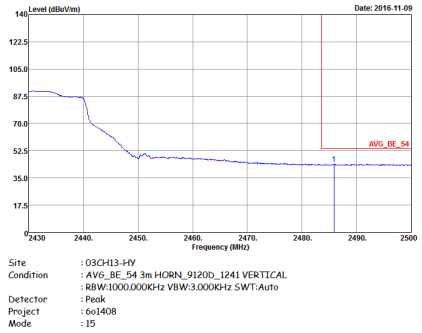
2.4GHz 2400~2483.5MHz

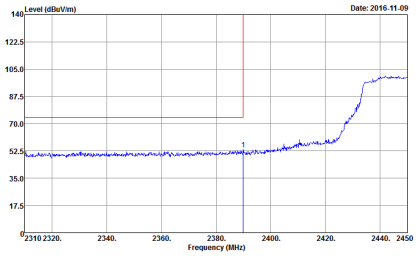
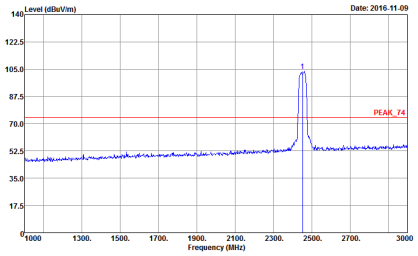
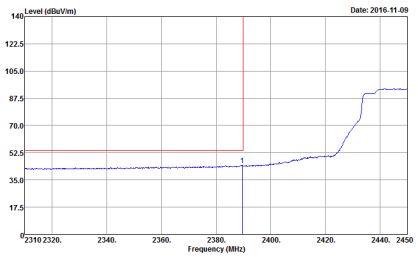
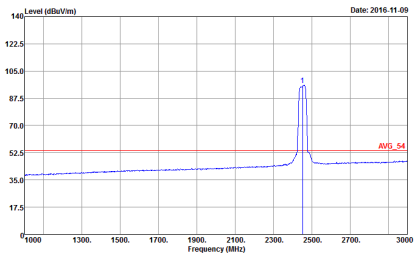
WIFI 802.11n HT40 (Band Edge @ 3m)

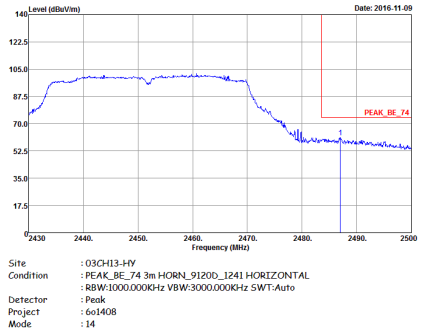
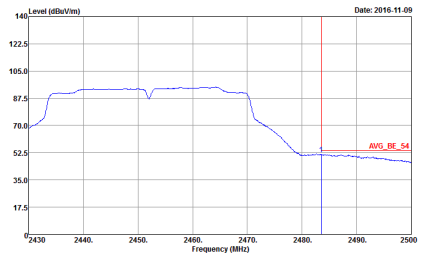
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		

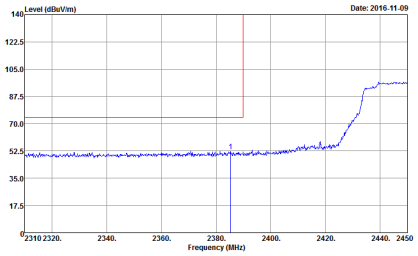
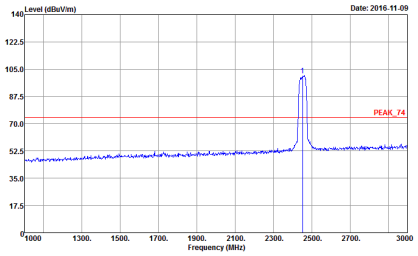
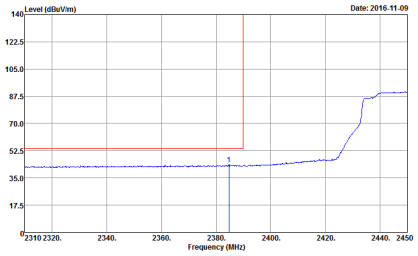
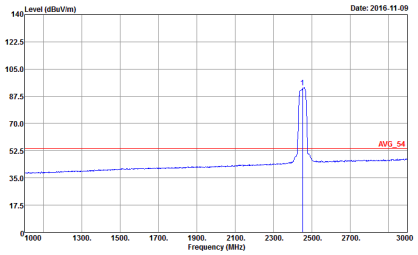
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 15	Left Blank
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 15	Left Blank

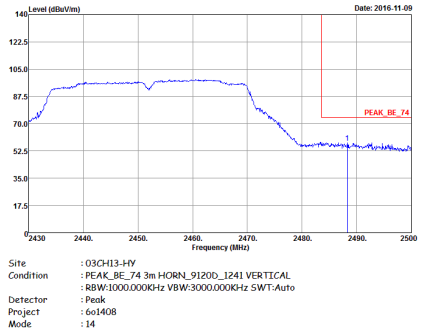
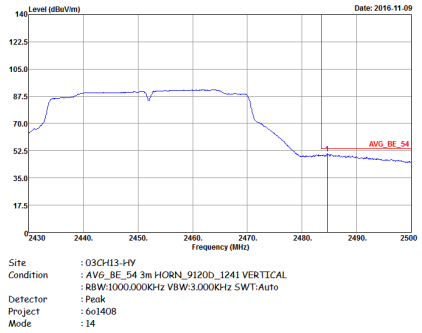
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 15	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 15
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 15	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 15

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 15	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 15	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 14	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 14
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 14	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 14

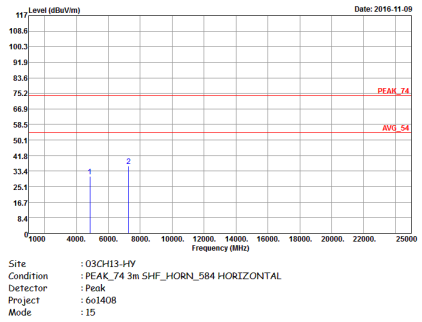
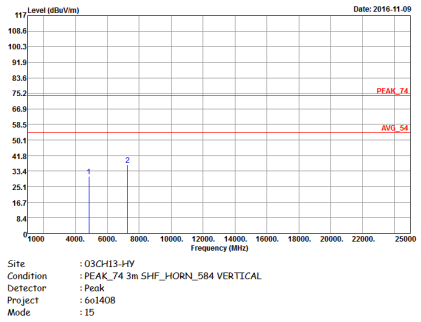
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 14	Left blank
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 14	Left blank

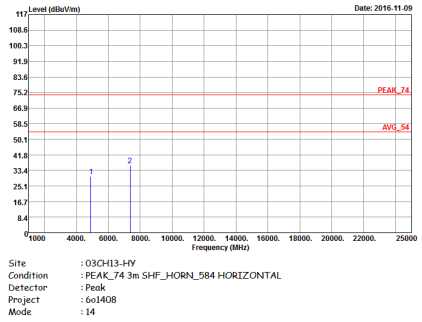
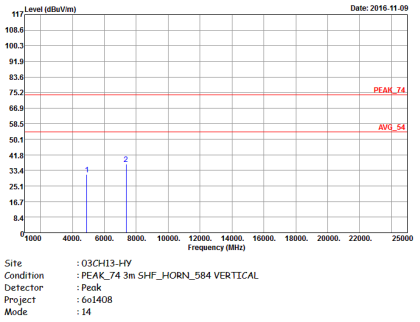
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 14	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 14
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 14	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 14

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 14	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 14	Left blank

2.4GHz 2400~2483.5MHz

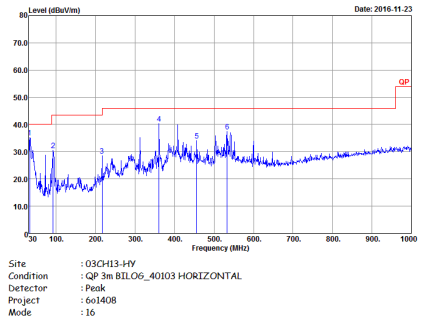
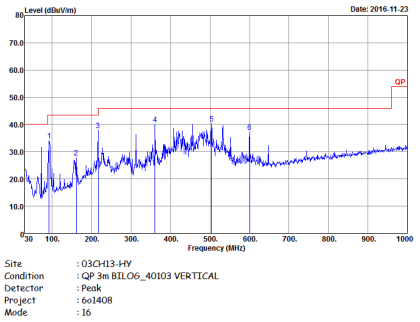
WIFI 802.11n HT40 (Harmonic @ 3m)

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

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

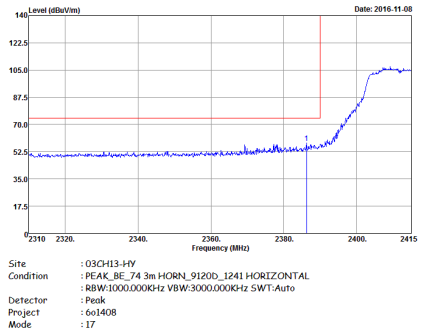
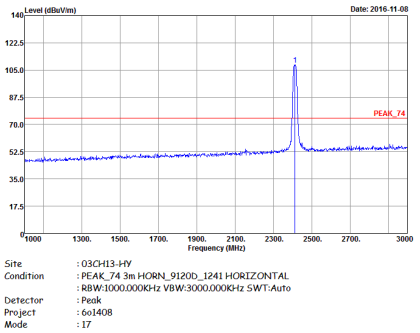
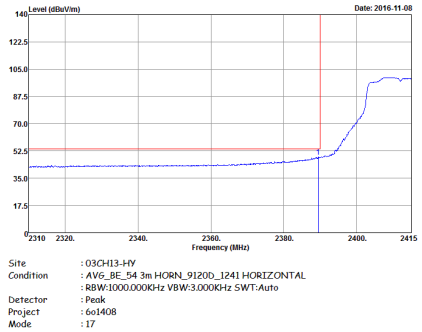
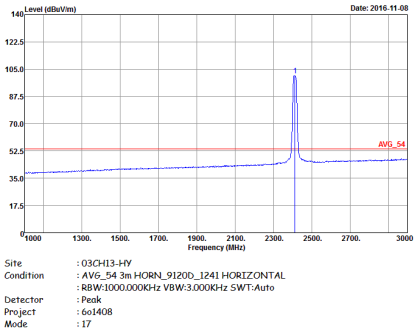
Emission below 1GHz

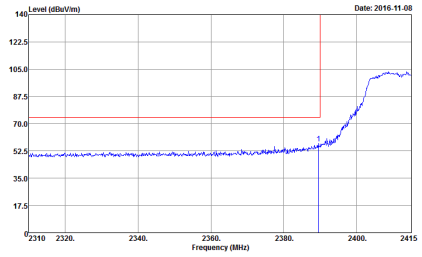
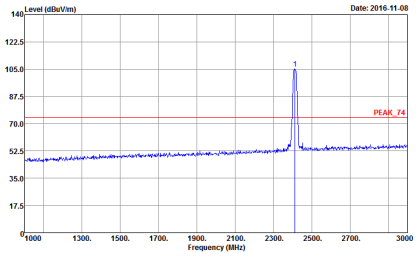
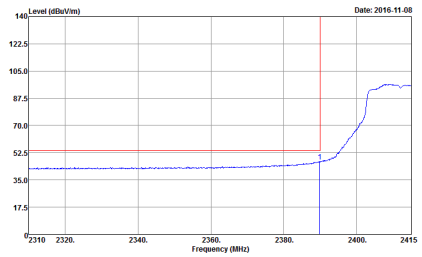
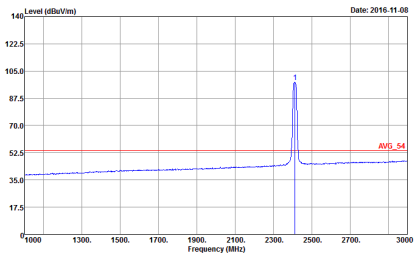
2.4GHz WIFI 802.11n HT40 (LF)

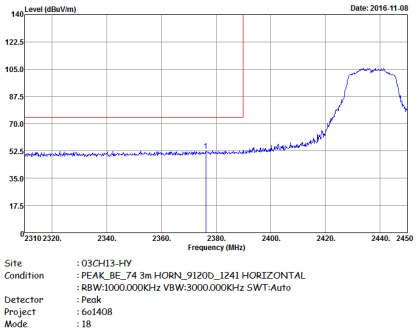
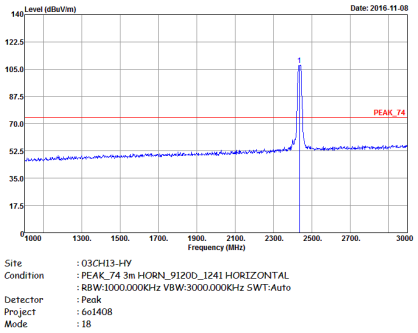
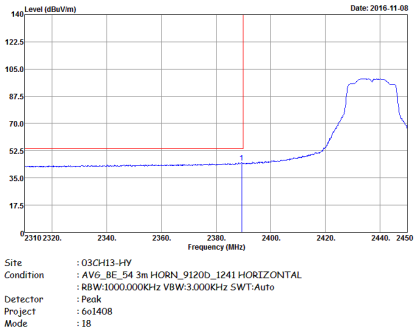
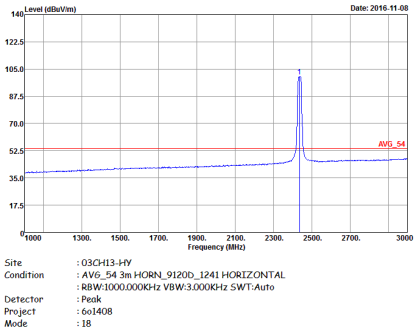
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT40 LF	
2	Horizontal	Vertical
QP / Peak		

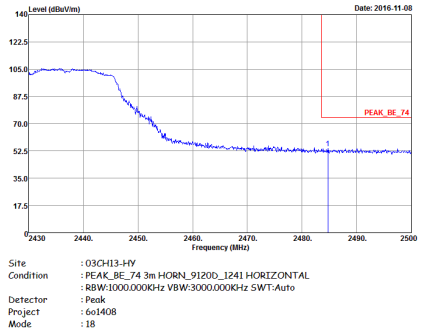
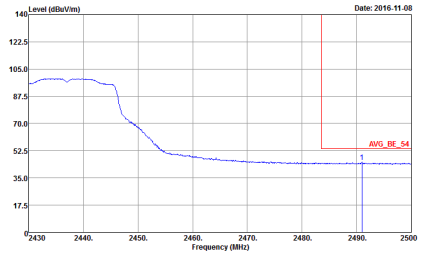
2.4GHz 2400~2483.5MHz

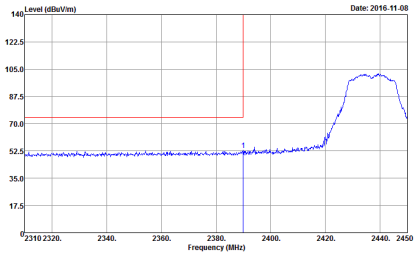
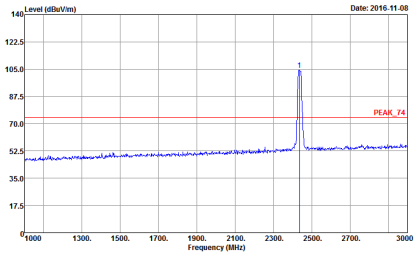
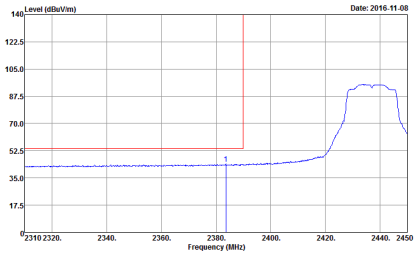
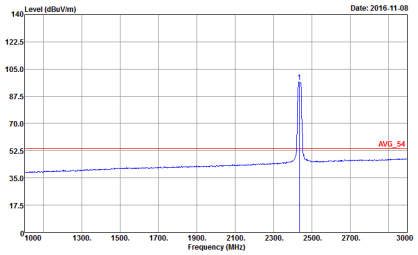
WIFI 802.11n HT20 (Band Edge @ 3m)

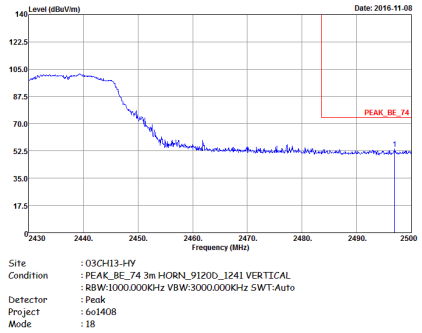
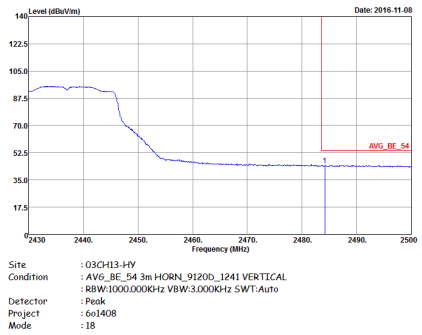
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		

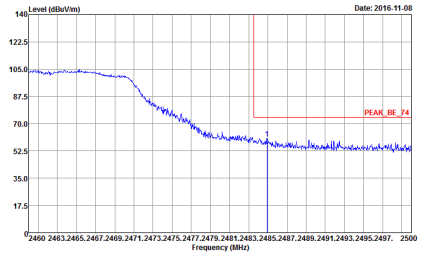
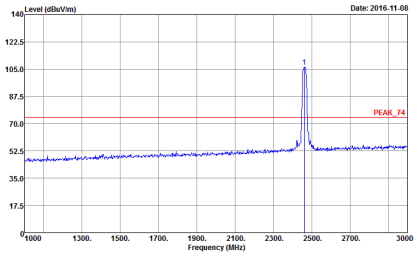
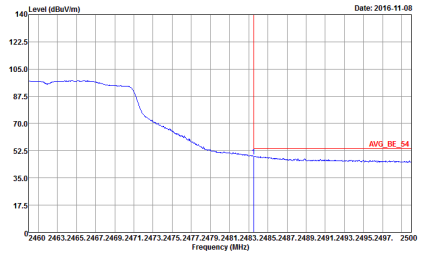
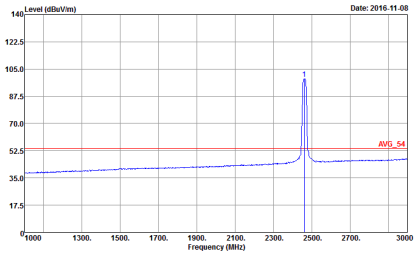
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 17	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 17
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 17	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 17

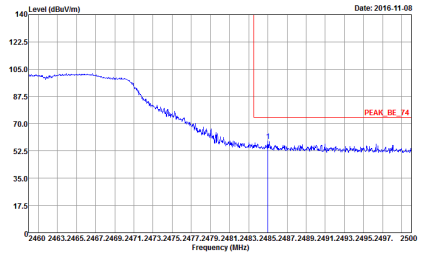
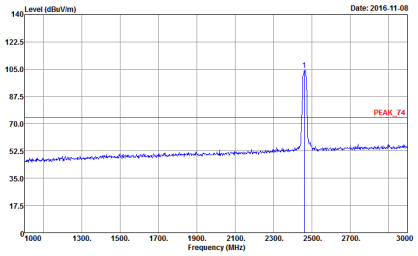
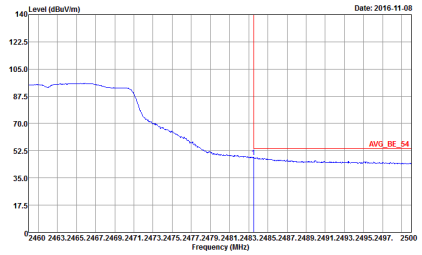
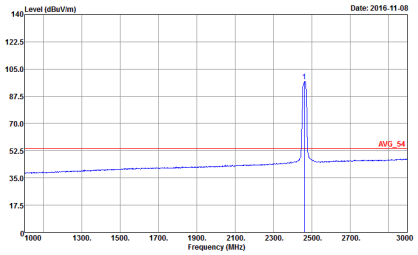
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 18	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 18
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 18	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 18

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 18	Left blank
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 18	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 18	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 18
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 18	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 18

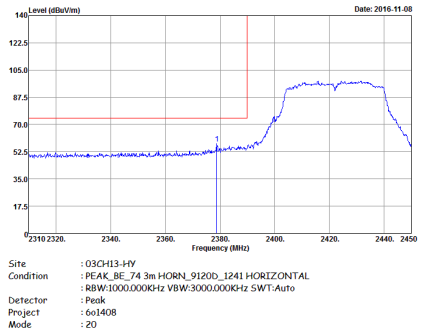
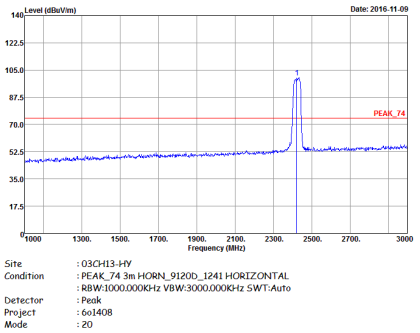
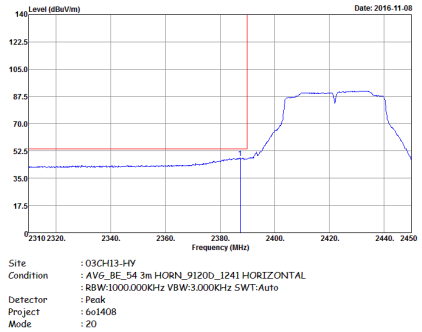
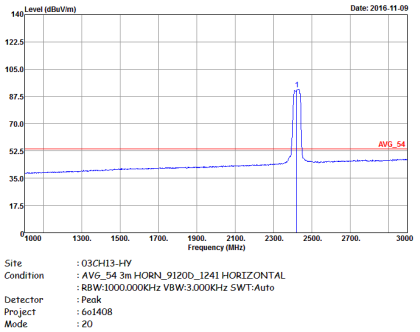
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

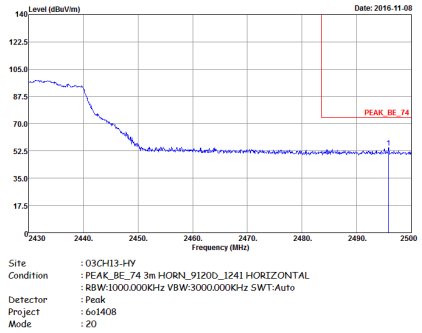
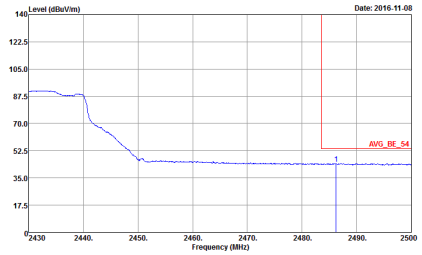
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 19	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 19
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 19	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 19

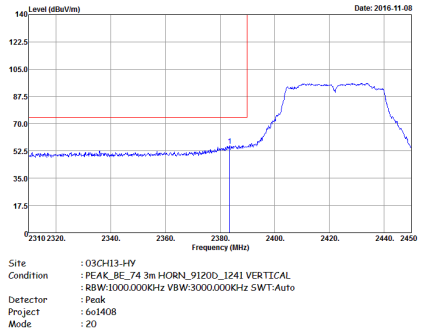
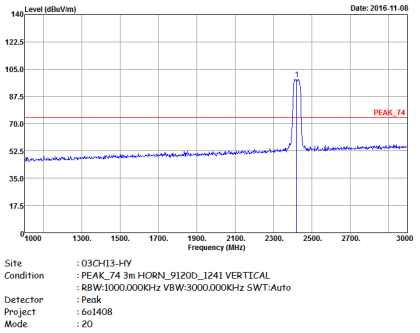
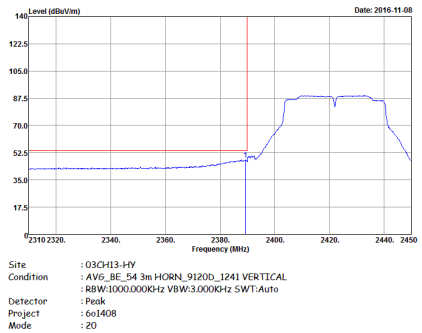
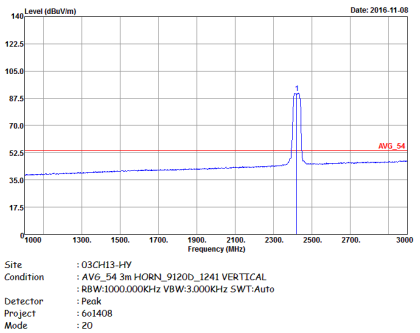
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 19	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 19
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 19	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 19

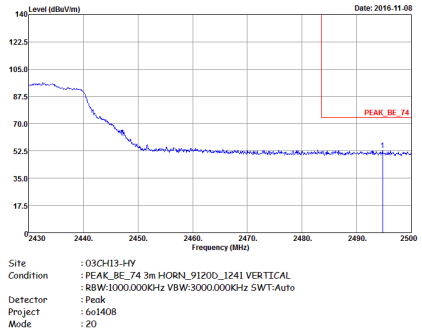
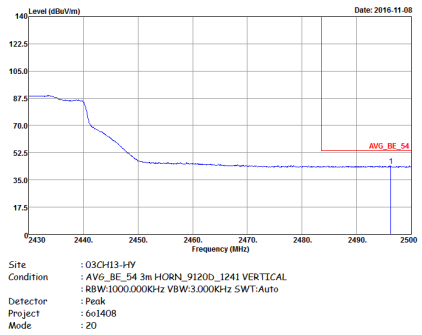
2.4GHz 2400~2483.5MHz

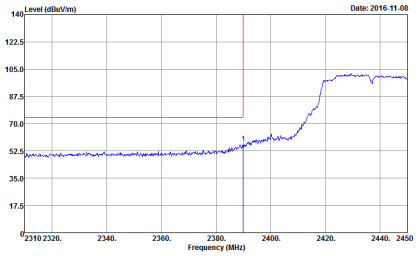
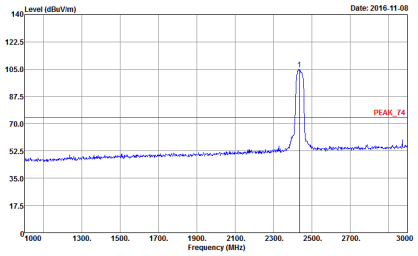
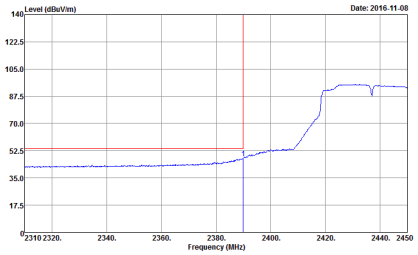
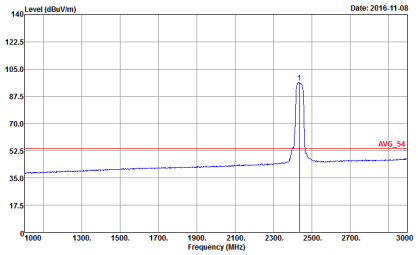
WIFI 802.11n HT40 (Band Edge @ 3m)

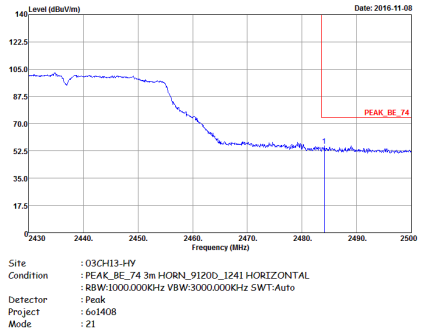
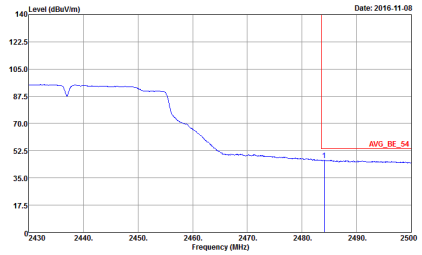
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

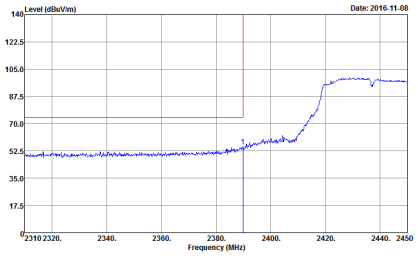
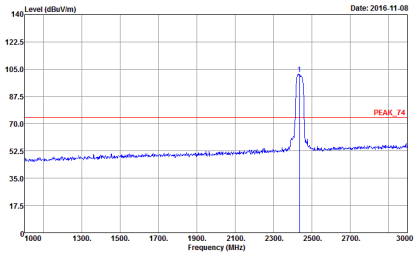
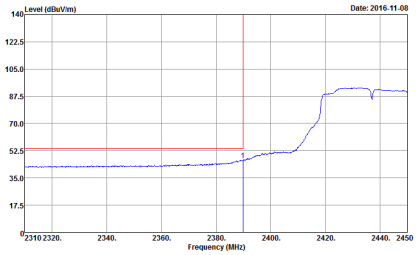
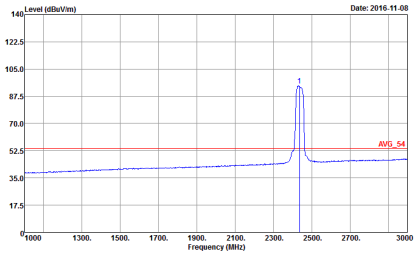
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 20	Left Blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 20	Left Blank

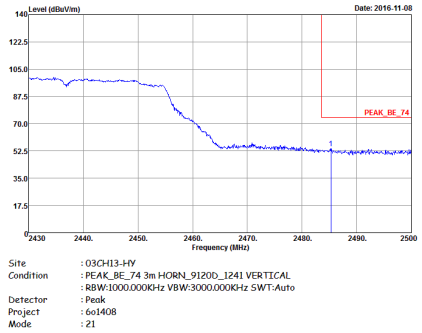
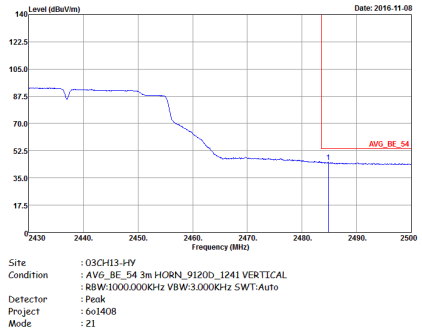
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 20	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 20
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 20	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 20

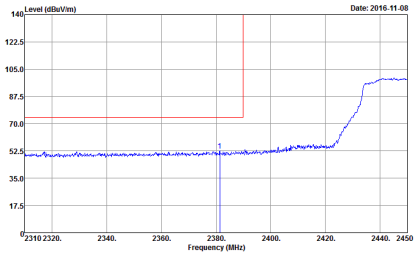
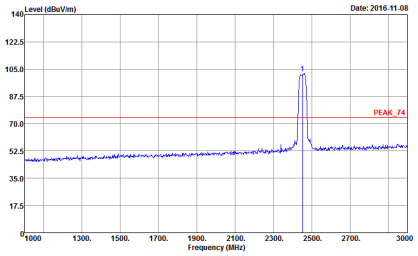
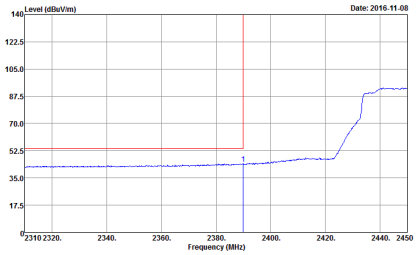
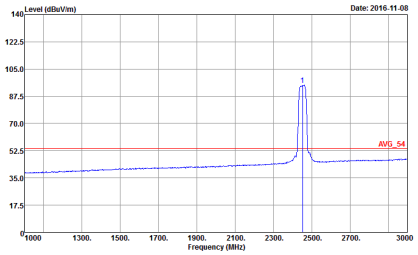
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

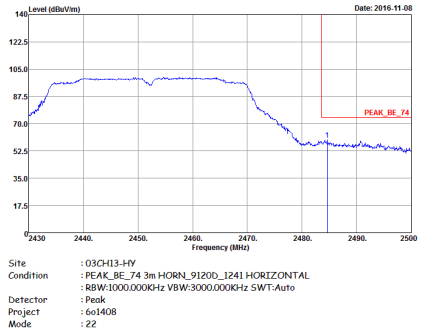
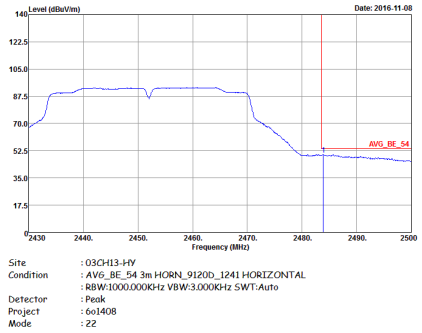
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 21	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 21
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 21	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 21

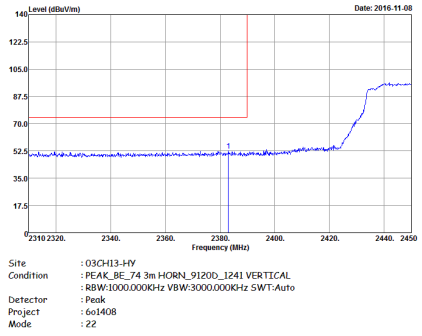
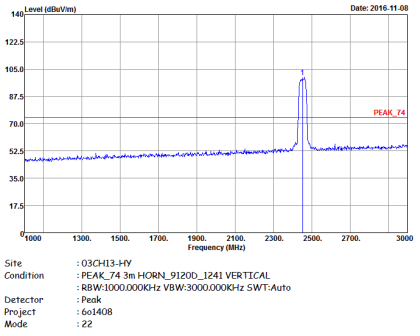
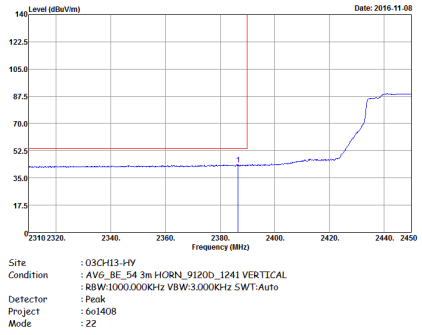
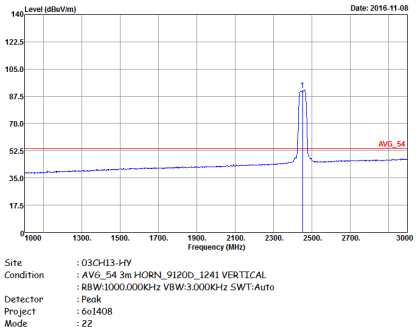
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 21	Left blank
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 21	Left blank

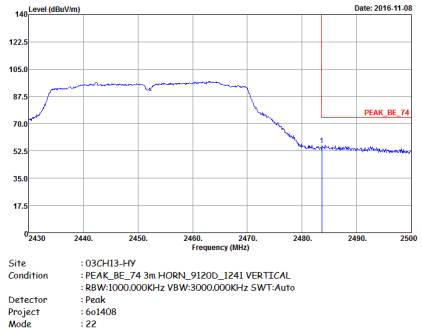
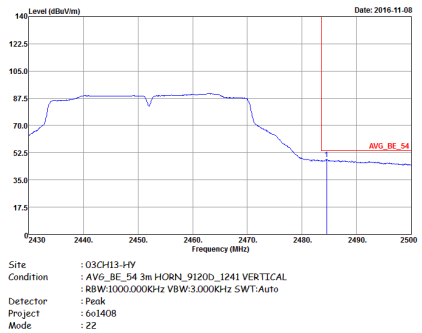
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 21	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 21
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 21	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 21

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 21	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 21	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 22	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 22
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 22	 Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 22

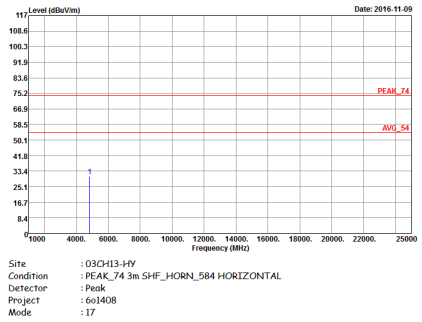
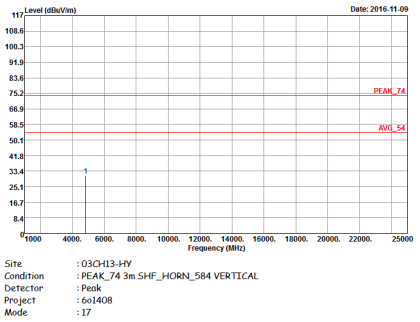
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 22	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6o1408 Mode : 22	Left blank

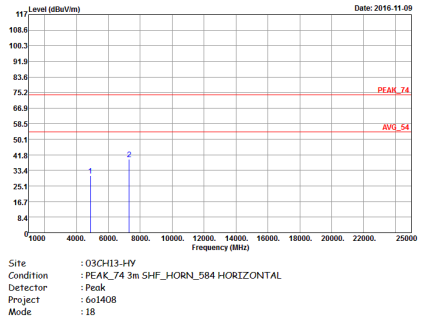
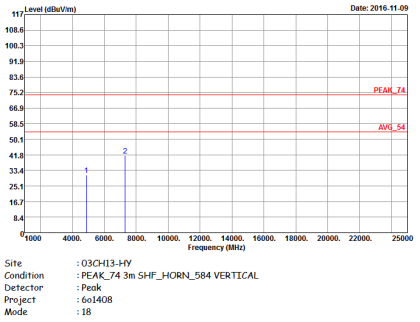
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

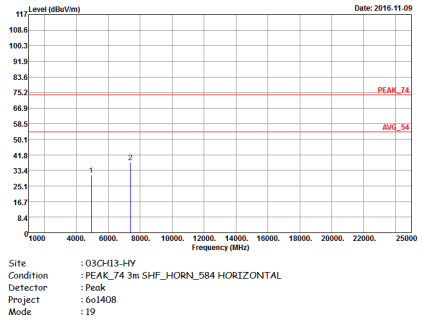
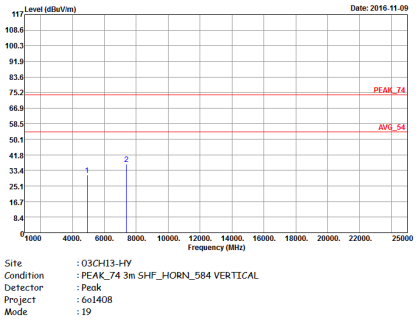
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

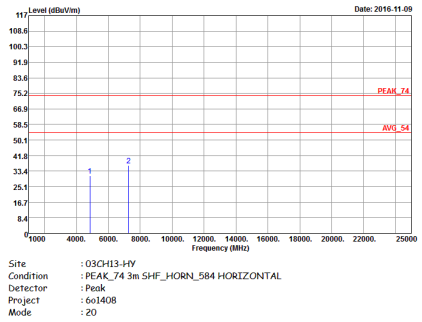
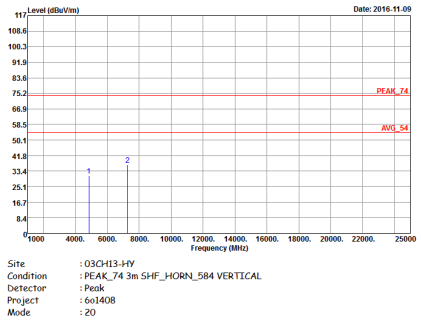
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.		

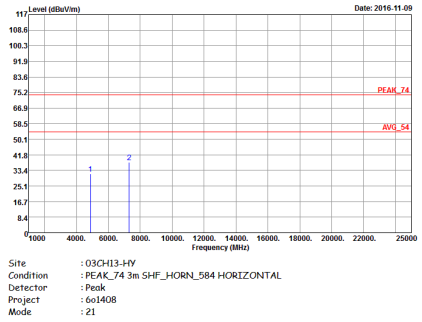
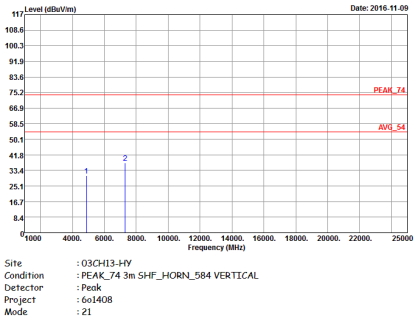
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.		

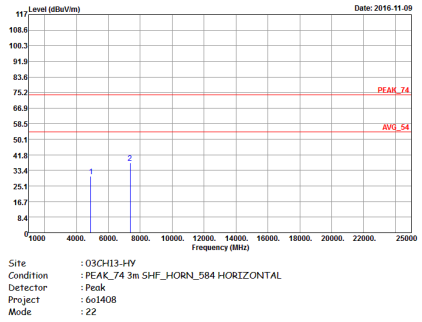
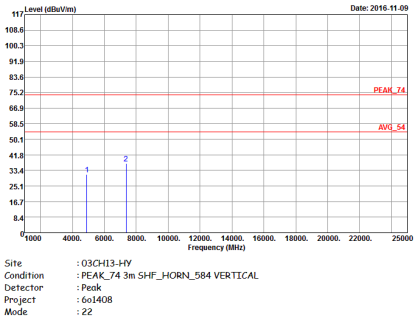
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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.		

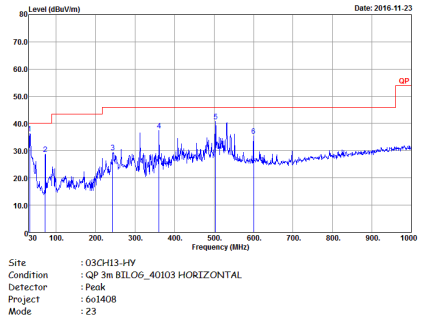
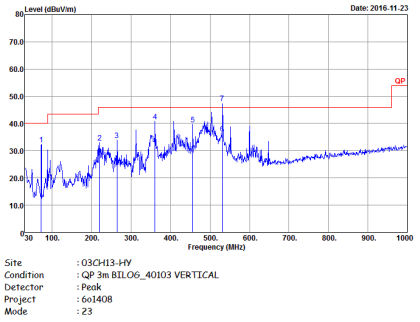
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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

2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

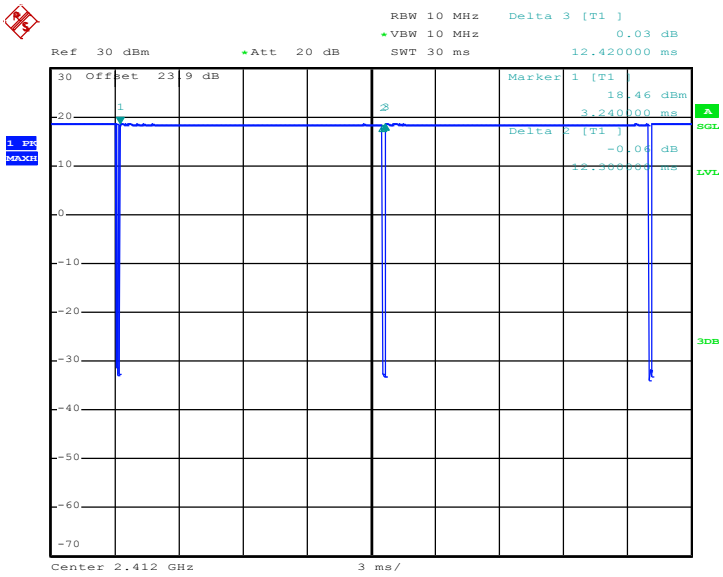
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT40 LF	
1+2	Horizontal	Vertical
QP / Peak		

Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11b	99.034	12300	0.081	10Hz
1	802.11g	94.444	2040	0.49	1kHz
1	2.4GHz 802.11n HT20	95	1900	0.53	1kHz
1	2.4GHz 802.11n HT40	83.93	940	1.06	3kHz
2	802.11b	98.56	12300	0.81	10Hz
2	802.11g	94.5	2060	0.49	1kHz
2	2.4GHz 802.11n HT20	94.06	1900	0.53	1kHz
2	2.4GHz 802.11n HT40	82.14	920	1.09	3kHz
1+2	2.4GHz 802.11n HT20 for Ant. 1	84.48	980	1.02	3kHz
1+2	2.4GHz 802.11n HT40 for Ant. 1	82.99	488	2.05	3kHz
1+2	2.4GHz 802.11n HT20 for Ant. 2	84.48	980	1.02	3kHz
1+2	2.4GHz 802.11n HT40 for Ant. 2	83.67	492	2.03	3kHz

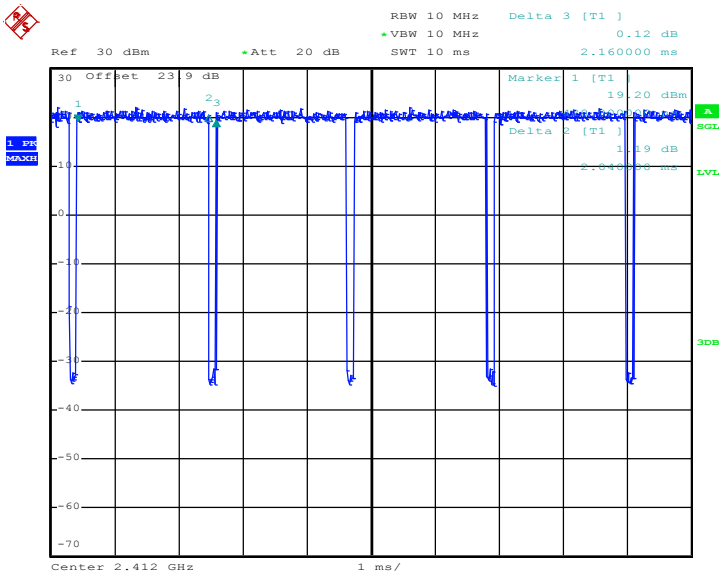
<Ant. 1>

802.11b



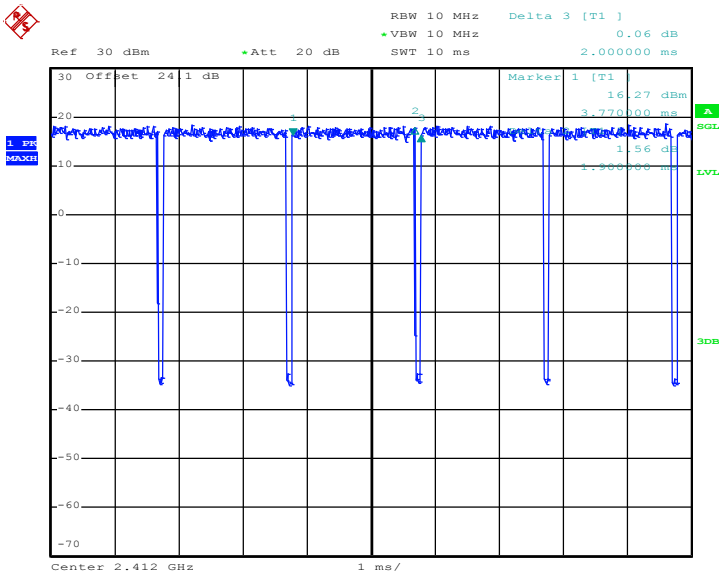
Date: 2.NOV.2016 16:38:34

802.11g



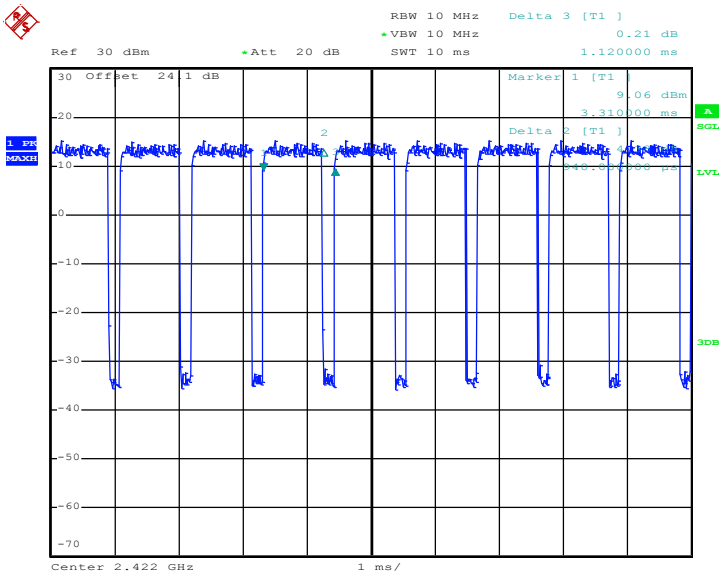
Date: 2.NOV.2016 17:47:19

802.11n HT20



Date: 4.NOV.2016 05:30:37

802.11n HT40



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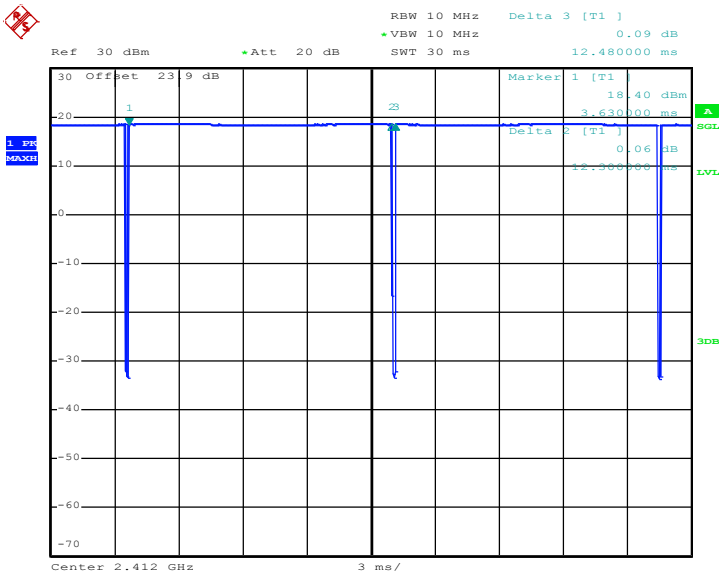
<Ant. 2>

802.11b



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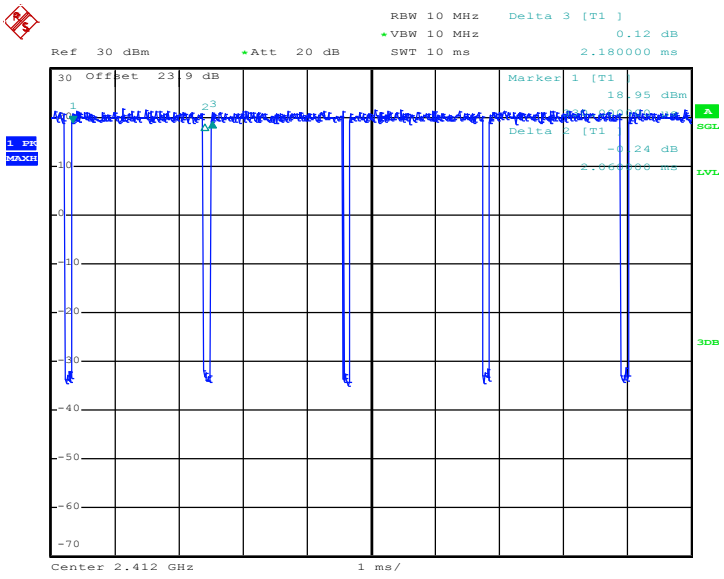
802.11g



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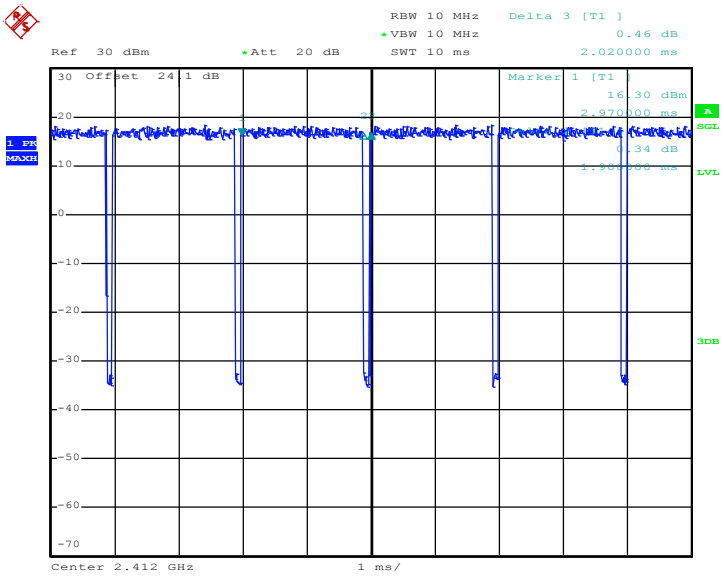

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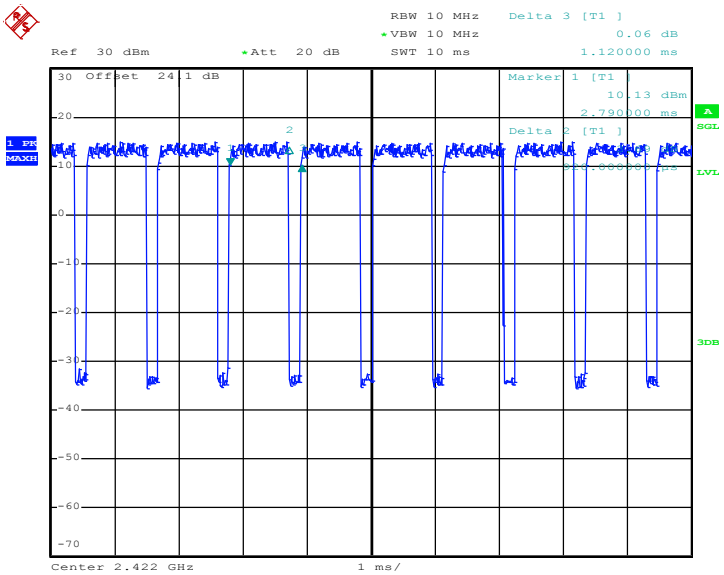

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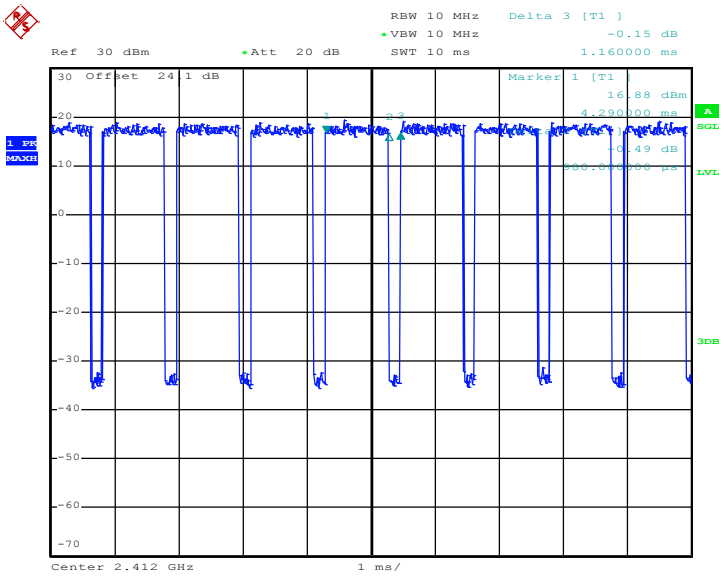

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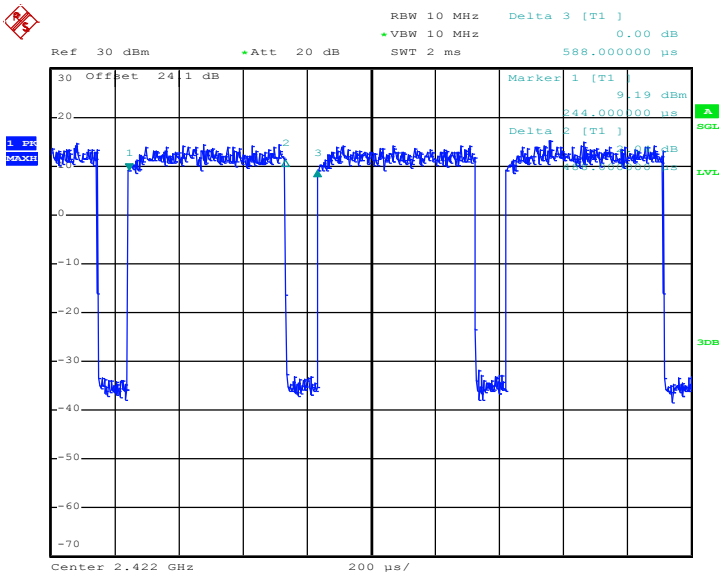

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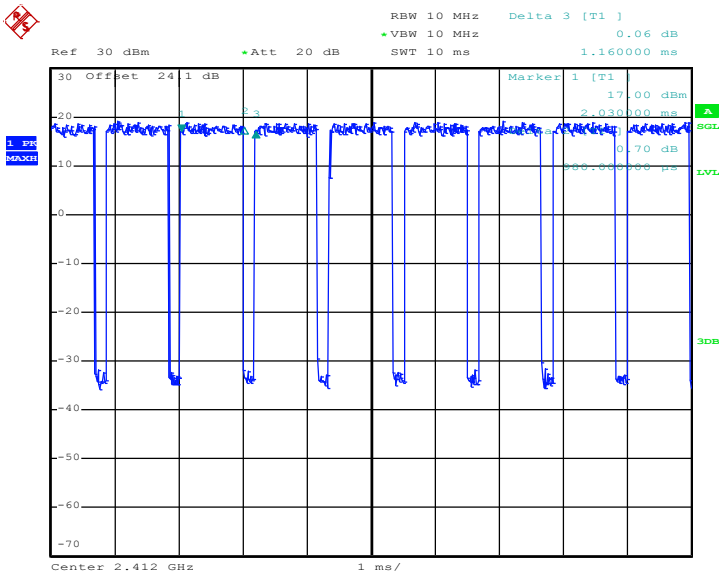

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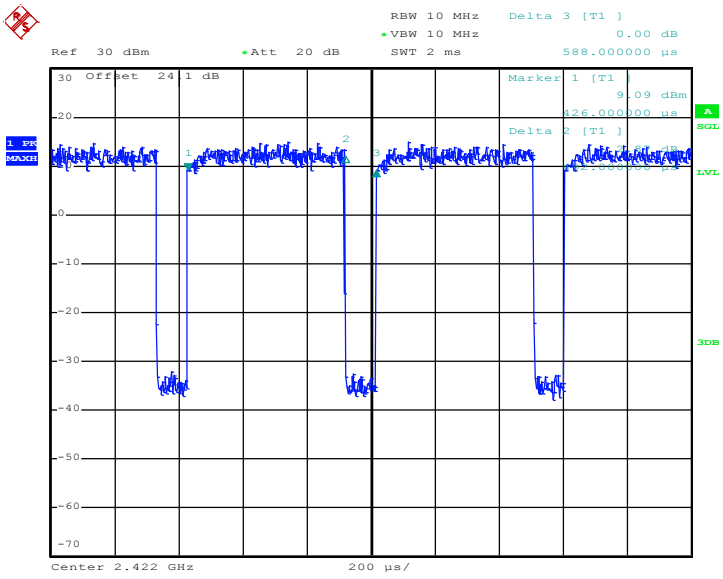

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