FCC RF Test Report

APPLICANT	:	Wistron Corporation
EQUIPMENT	:	Tablet PC
BRAND NAME	:	Lenovo
MODEL NAME	:	TP00082A
FCC ID	:	PU5-TP00082AI
STANDARD	:	FCC Part 15 Subpart C §15.247
CLASSIFICATION	:	(DTS) Digital Transmission System

Equipment: Intel 8265D2W tested inside of Lenovo Tablet PC

This is a partial report which is included the conduction emission and radiated emission test items. The product was received on Sep. 12, 2016 and testing was completed on Nov. 16, 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
FR5N2711-09C	Rev. 01	Initial issue of report	Dec. 05, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 0.59 dB at 2483.520 & 2483.680 MHz
3.2	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 9.30 dB at 0.550 MHz
3.3	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Wistron Corporation
21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221,Taiwan R.O.C.

1.2 Manufacturer

Wistron Corporation
21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221,Taiwan R.O.C.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet PC
Brand Name	Lenovo
Model Name	TP00082A
FCC ID	PU5-TP00082AI
Integrated WLAN Module	Brand Name: Intel Model Name: 8265D2W FCC: PD98265D2
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
EUT Stage	Production Unit

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

Antenna Information		
Manufacturer	PULSE	
Antenna Type	Main: Dipole Antenna	Aux.: Dipole Antenna
Part Number	025.900FC.0001	025.900FD.0001
Peak Gain	WLAN (2.4GHz): -0.82 WLAN (5GHz): 2.31	WLAN (2.4GHz): 1.39 Bluetooth : 1.39 WLAN (5GHz): 3.13

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 ~ 2472 MHz</td></tr>
<tr><td>Type of Modulation</td><td>802.11b : DSSS (DBPSK / DQPSK / CCK)
802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)
802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)</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/ac</td><td>V</td><td>V</td></tr>
<tr><td>802.11 n/ac 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.

<table>
<tr><td>Test Site</td><td colspan="2">SPORTON INTERNATIONAL INC.</td></tr>
<tr><td>Test Site Location</td><td colspan="2">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</td></tr>
<tr><td rowspan="2">Test Site No.</td><td colspan="2">Sporton Site No.</td></tr>
<tr><td>CO05-HY</td><td>03CH07-HY</td></tr>
</table>

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

1.7 Applicable Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
- 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	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442		

2.2 Test Mode

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

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
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

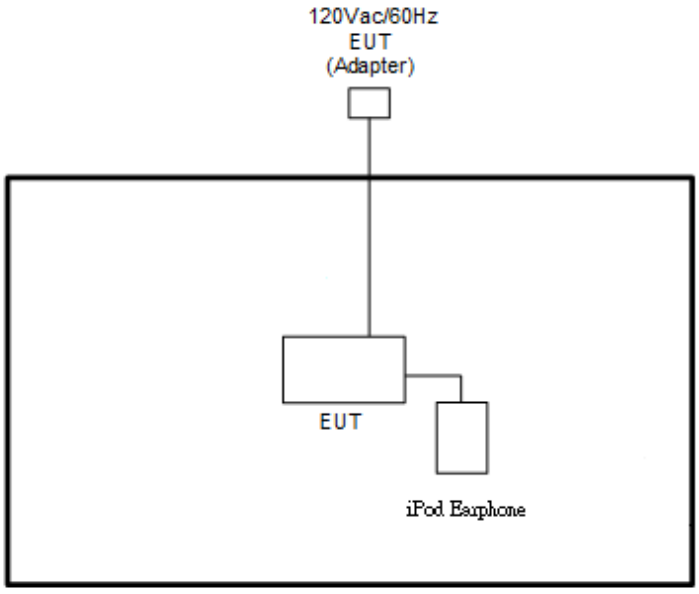
Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Tx + TF + TC Mode 2 : WLAN (2.4GHz) Tx + TF + TC

Remark:

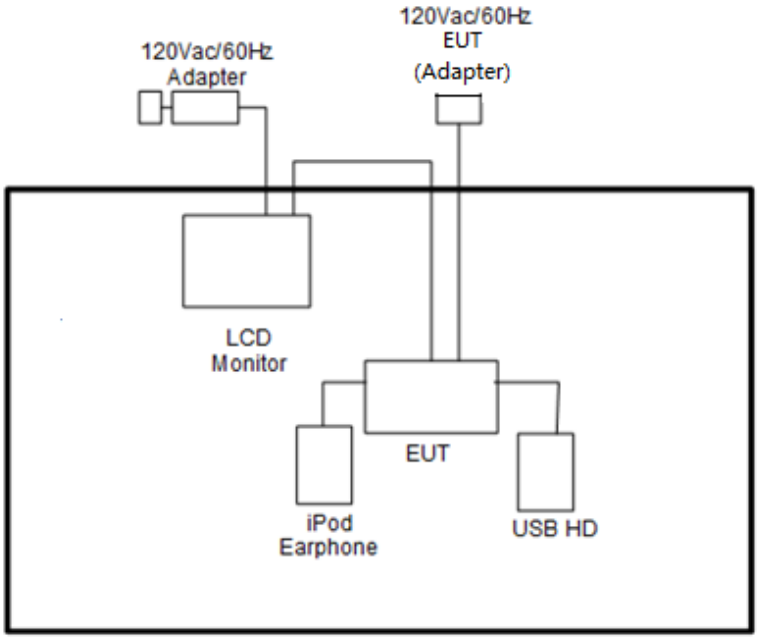
1. TC stands for Test Configuration, and consists of Earphone, USB HD, Adapter, SD Card, and DP Cable.
2. TF stands for Test Function, and consists of MPEG4.
3. The worst case of conducted emission is mode 2; only the test data of it was reported.

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.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
2.	LCD Monitor	DELL	U2410	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
3.	USB HD	PQI	H568V	FCC DoC	Unshielded, 0.5 m	N/A
4.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The programmed RF utility “DRTU Tool”, 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 Radiated Band Edges and Spurious Emission Measurement

3.1.1 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

3.1.2 Measuring Instruments

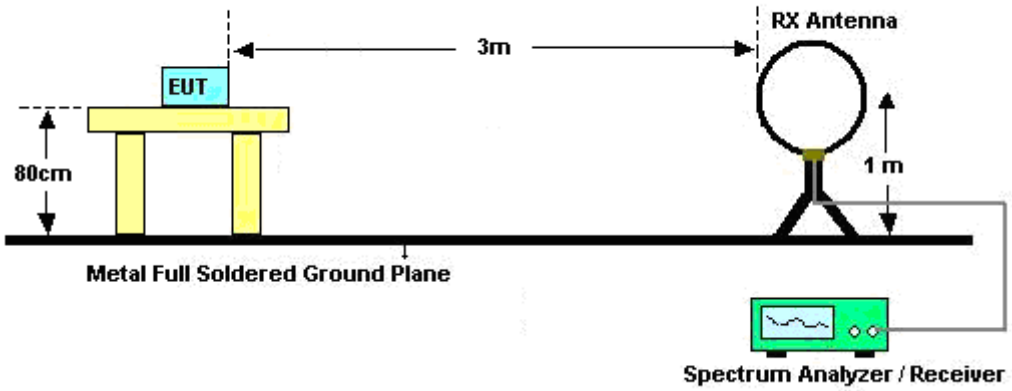
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

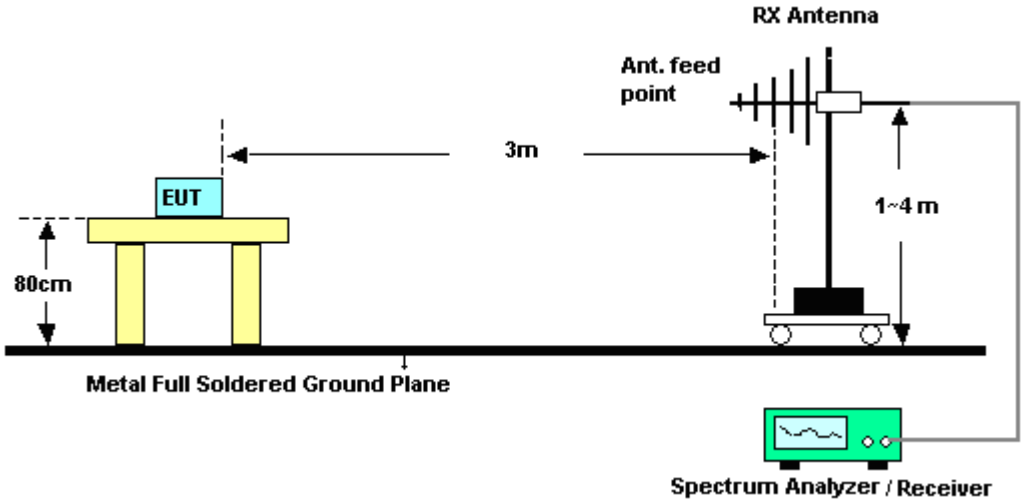
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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.

3.1.4 Test Setup

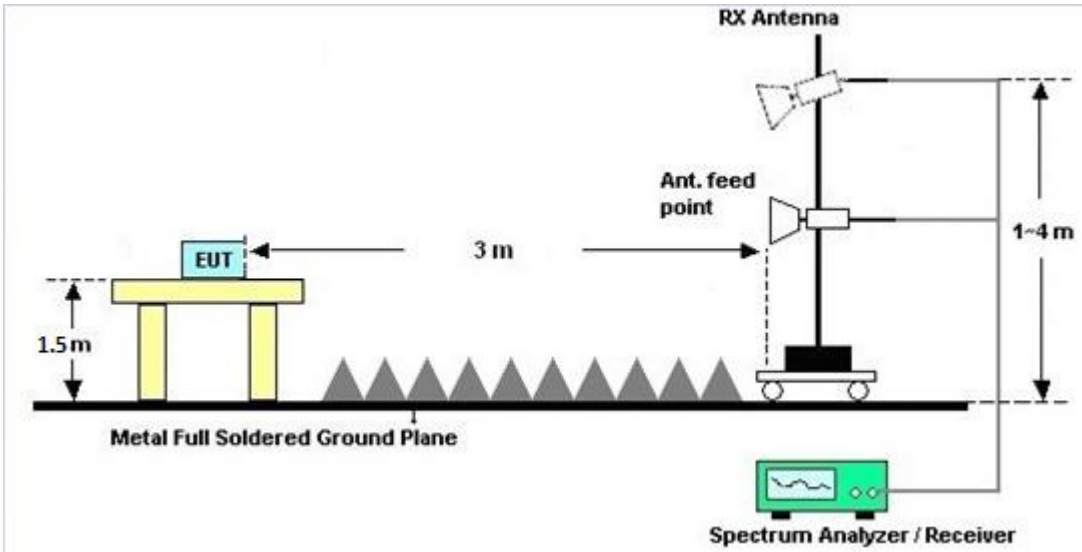
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.1.5 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.

3.1.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A and B.

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

Please refer to Appendix A and B.

3.2 AC Conducted Emission Measurement

3.2.1 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.

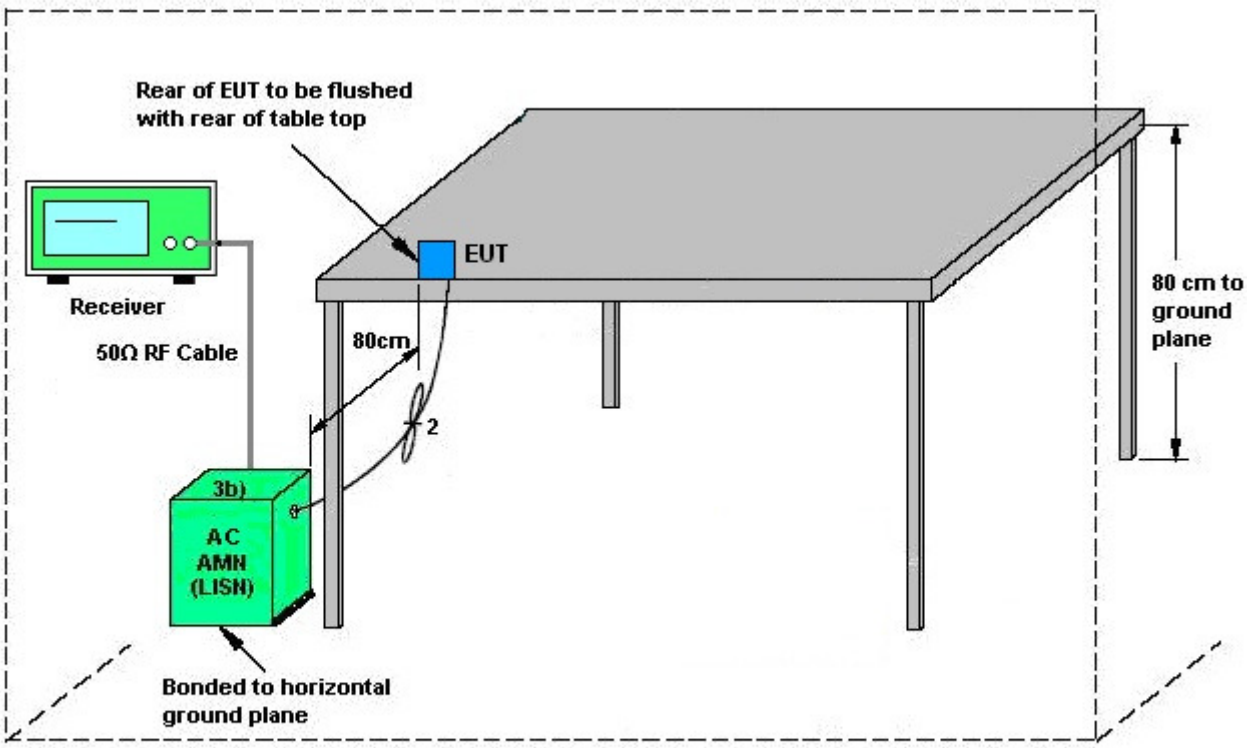
3.2.2 Measuring Instruments

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

3.2.3 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.

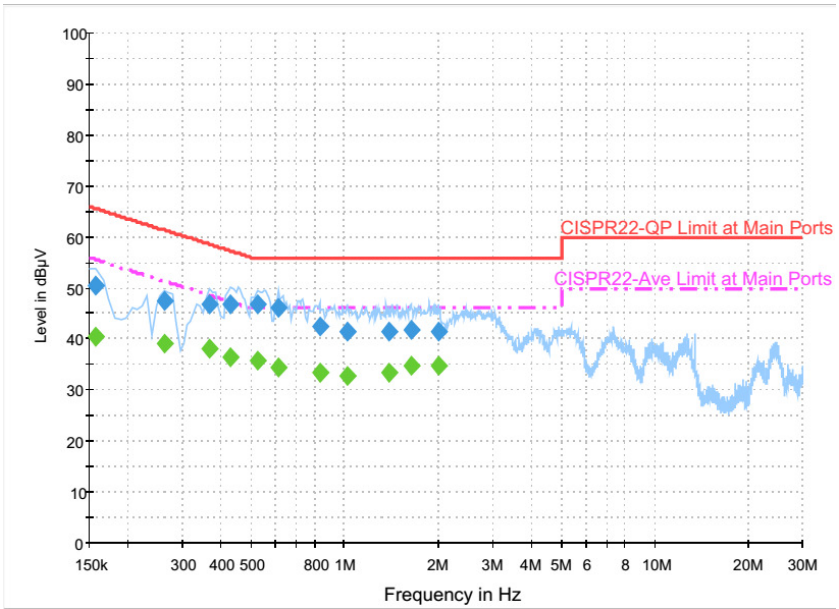
3.2.4 Test Setup



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

3.2.5 Test Result of AC Conducted Emission

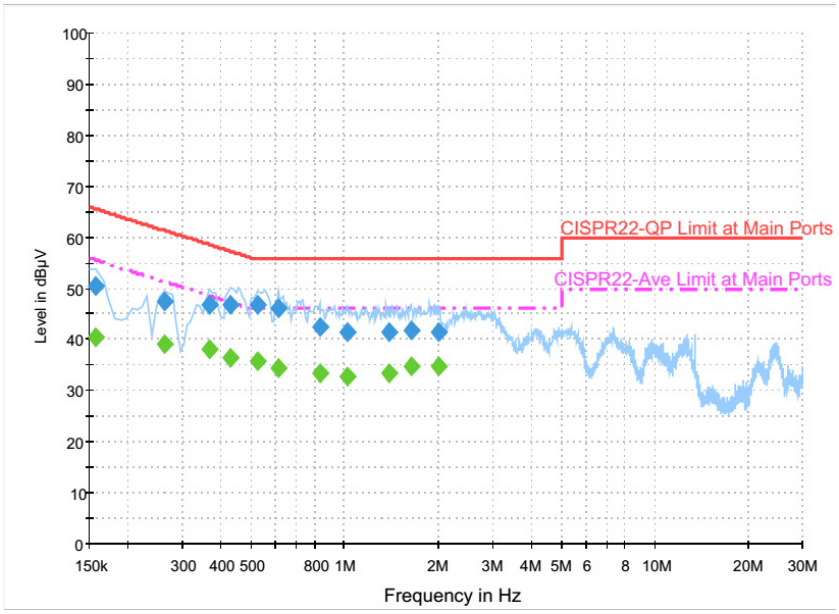
Test Mode :	Mode 2	Temperature :	20~25℃
Test Engineer :	James Chiu	Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (2.4GHz) Tx + TF + TC		



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	50.6	Off	N	19.6	15.0	65.6
0.262000	47.3	Off	N	19.6	14.1	61.4
0.366000	46.9	Off	N	19.6	11.7	58.6
0.430000	46.7	Off	N	19.6	10.6	57.3
0.526000	46.7	Off	N	19.6	9.3	56.0
0.614000	46.1	Off	N	19.6	9.9	56.0
0.830000	42.6	Off	N	19.6	13.4	56.0
1.014000	41.5	Off	N	19.6	14.5	56.0
1.382000	41.4	Off	N	19.7	14.6	56.0
1.638000	41.7	Off	N	19.7	14.3	56.0
2.006000	41.5	Off	N	19.7	14.5	56.0

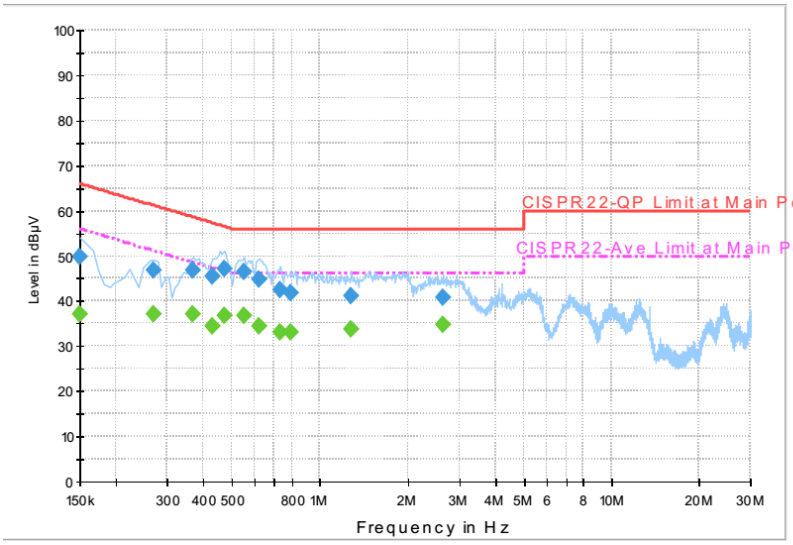
Test Mode :	Mode 2	Temperature :	20~25℃℃
Test Engineer :	James Chiu	Relative Humidity :	50~55%%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (2.4GHz) Tx + TF + TC		



Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	40.6	Off	N	19.6	15.0	55.6
0.262000	39.1	Off	N	19.6	12.3	51.4
0.366000	38.0	Off	N	19.6	10.6	48.6
0.430000	36.5	Off	N	19.6	10.8	47.3
0.526000	35.9	Off	N	19.6	10.1	46.0
0.614000	34.5	Off	N	19.6	11.5	46.0
0.830000	33.3	Off	N	19.6	12.7	46.0
1.014000	32.7	Off	N	19.6	13.3	46.0
1.382000	33.6	Off	N	19.7	12.4	46.0
1.638000	34.6	Off	N	19.7	11.4	46.0
2.006000	34.7	Off	N	19.7	11.3	46.0

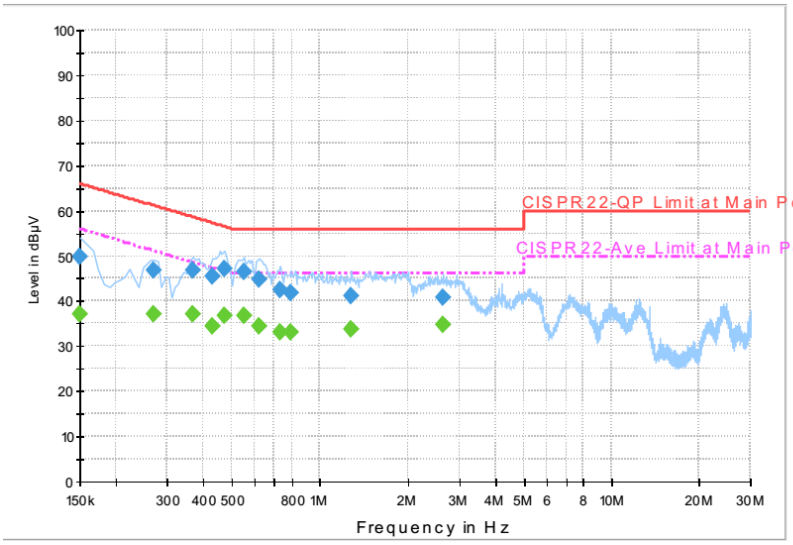
Test Mode :	Mode 2	Temperature :	20~25℃℃
Test Engineer :	James Chiu	Relative Humidity :	50~55%%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (2.4GHz) Tx + TF + TC		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	50.0	Off	N	19.6	16.0	66.0
0.270000	46.9	Off	N	19.6	14.2	61.1
0.366000	46.9	Off	N	19.6	11.7	58.6
0.430000	45.6	Off	N	19.6	11.7	57.3
0.470000	47.2	Off	N	19.6	9.3	56.5
0.550000	46.6	Off	N	19.6	9.4	56.0
0.622000	45.0	Off	N	19.6	11.0	56.0
0.734000	42.6	Off	N	19.6	13.4	56.0
0.798000	41.9	Off	N	19.6	14.1	56.0
1.286000	41.1	Off	N	19.6	14.9	56.0
2.646000	40.8	Off	N	19.3	15.2	56.0

Test Mode :	Mode 2	Temperature :	20~25℃℃
Test Engineer :	James Chiu	Relative Humidity :	50~55%%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (2.4GHz) Tx + TF + TC		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	37.3	Off	N	19.6	18.7	56.0
0.270000	37.1	Off	N	19.6	14.0	51.1
0.366000	37.2	Off	N	19.6	11.4	48.6
0.430000	34.3	Off	N	19.6	13.0	47.3
0.470000	36.7	Off	N	19.6	9.8	46.5
0.550000	36.7	Off	N	19.6	9.3	46.0
0.622000	34.4	Off	N	19.6	11.6	46.0
0.734000	33.2	Off	N	19.6	12.8	46.0
0.798000	33.1	Off	N	19.6	12.9	46.0
1.286000	33.6	Off	N	19.6	12.4	46.0
2.646000	34.8	Off	N	19.3	11.2	46.0

3.3 Antenna Requirements

3.3.1 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.

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.3.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 08, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Nov. 08, 2016	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Nov. 08, 2016	Dec. 01, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 14, 2015	Nov. 08, 2016	Dec. 13, 2016	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 06, 2016	Nov. 08, 2016	Jan. 05, 2017	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 08, 2016	Nov. 08, 2016	Jan. 07, 2017	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35419&03	30MHz to 1GHz	Jan. 13, 2016	Nov. 16, 2016	Jan. 12, 2017	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 19, 2016	Nov. 16, 2016	Aug. 18, 2017	Radiation (03CH07-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20Hz ~ 8.4GHz	Oct. 26, 2016	Nov. 16, 2016	Oct. 25, 2017	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Nov. 16, 2016	Sep. 01, 2017	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590075	1GHz ~ 18GHz	Apr. 15, 2016	Nov. 16, 2016	Apr. 14, 2017	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1GHz	Mar. 18, 2016	Nov. 16, 2016	Mar. 17, 2017	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Oct. 12, 2016	Nov. 16, 2016	Oct. 11, 2017	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Feb. 27, 2016	Nov. 16, 2016	Feb. 26, 2017	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Nov. 16, 2016	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Nov. 16, 2016	N/A	Radiation (03CH07-HY)
Loop Cable	Rohde & Schwarz	N/A	N/A	9KHz~30MHz	Dec. 03, 2015	Nov. 16, 2016	Dec. 02, 2016	Radiation (03CH07-HY)
Preamplifier	MITEQ	JS44-18004000-33-8P	1840917	18GHz ~ 40GHz	Jun. 14, 2016	Nov. 16, 2016	Jun. 13, 2017	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz- 40GHz	Oct. 07, 2016	Nov. 16, 2016	Oct. 06, 2017	Radiation (03CH07-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jul. 17, 2016	Sep 19,2016	Jul. 16, 2017	Radiation (03CH07-HY)

5 Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.7**

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

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

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

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

Appendix A. Radiated Spurious Emission

Test Engineer :	Ken Wu, Jesse Wang, and James Chiu	Temperature :	21~24°C
		Relative Humidity :	50~54%

<Ant.1>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11b CH 01 2412MHz		2382.135	53.89	-20.11	74	49.41	32.14	7.31	34.97	200	307	P	H
		2389.8	44.01	-9.99	54	39.49	32.19	7.31	34.98	200	307	A	H
	*	2412	99.82	-	-	95.25	32.24	7.31	34.98	200	307	P	H
	*	2412	96.54	-	-	91.97	32.24	7.31	34.98	200	307	A	H
													H
													H
		2378.67	54.58	-19.42	74	50.17	32.14	7.24	34.97	242	144	P	V
		2388.225	43.94	-10.06	54	39.41	32.19	7.31	34.97	242	144	A	V
	*	2412	103.22	-	-	98.65	32.24	7.31	34.98	242	144	P	V
	*	2412	100.08	-	-	95.51	32.24	7.31	34.98	242	144	A	V
													V
													V

802.11b CH 06 2437MHz		2330.44	54.69	-19.31	74	50.49	31.98	7.18	34.96	200	236	P	H
		2387.42	43.77	-10.23	54	39.24	32.19	7.31	34.97	200	236	A	H
	*	2437	98.68	-	-	93.97	32.34	7.36	34.99	200	236	P	H
	*	2437	95.6	-	-	90.89	32.34	7.36	34.99	200	236	A	H
		2486.35	54.92	-19.08	74	50.07	32.45	7.4	35	200	236	P	H
		2487.96	44.09	-9.91	54	39.19	32.5	7.4	35	200	236	A	H
		2337.72	54.46	-19.54	74	50.21	32.03	7.18	34.96	302	177	P	V
		2389.38	43.74	-10.26	54	39.21	32.19	7.31	34.97	302	177	A	V
	*	2437	101.67	-	-	96.96	32.34	7.36	34.99	302	177	P	V
	*	2437	98.55	-	-	93.84	32.34	7.36	34.99	302	177	A	V
		2484.11	55	-19	74	50.15	32.45	7.4	35	302	177	P	V
		2491.25	44.06	-9.94	54	39.16	32.5	7.4	35	302	177	A	V
802.11b CH 11 2462MHz	*	2462	98.27	-	-	93.46	32.4	7.4	34.99	200	248	P	H
	*	2462	95.52	-	-	90.71	32.4	7.4	34.99	200	248	A	H
		2498	54.8	-19.2	74	49.91	32.5	7.4	35.01	200	248	P	H
		2483.52	45.59	-8.41	54	40.74	32.45	7.4	35	200	248	A	H
													H
													H
	*	2462	101.68	-	-	96.87	32.4	7.4	34.99	264	181	P	V
	*	2462	98.95	-	-	94.14	32.4	7.4	34.99	264	181	A	V
		2496.12	55.36	-18.64	74	50.47	32.5	7.4	35.01	264	181	P	V
		2483.52	48.08	-5.92	54	43.23	32.45	7.4	35	264	181	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	44.49	-29.51	74	58.21	33.64	11.68	59.04	100	0	P	H
													H
													H
													H
		4824	43.23	-30.77	74	56.95	33.64	11.68	59.04	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	45.87	-28.13	74	59.74	33.54	11.53	58.94	100	0	P	H
		7311	39.38	-34.62	74	48.81	34.69	13.81	57.93	100	0	P	H
													H
													H
		4874	43.49	-30.51	74	57.36	33.54	11.53	58.94	100	0	P	V
		7311	38.75	-35.25	74	48.18	34.69	13.81	57.93	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	41.91	-32.09	74	55.94	33.44	11.37	58.84	100	0	P	H
		7386	38.4	-35.6	74	48.04	34.47	13.95	58.06	100	0	P	H
													H
													H
		4924	41.35	-32.65	74	55.38	33.44	11.37	58.84	100	0	P	V
		7386	38.57	-35.43	74	48.21	34.47	13.95	58.06	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		2385.39	55.18	-18.82	74	50.7	32.14	7.31	34.97	200	308	P	H
		2371.32	44.74	-9.26	54	40.33	32.14	7.24	34.97	200	308	A	H
	*	2412	102.65	-	-	98.08	32.24	7.31	34.98	200	308	P	H
	*	2412	95	-	-	90.43	32.24	7.31	34.98	200	308	A	H
													H
													H
		2387.7	55.71	-18.29	74	51.18	32.19	7.31	34.97	241	139	P	V
		2389.695	44.76	-9.24	54	40.23	32.19	7.31	34.97	241	139	A	V
	*	2412	105.93	-	-	101.36	32.24	7.31	34.98	241	139	P	V
	*	2412	98.39	-	-	93.82	32.24	7.31	34.98	241	139	A	V
													V
													V
802.11g CH 06 2437MHz		2310.84	53.98	-20.02	74	49.82	31.93	7.18	34.95	200	239	P	H
		2385.18	44.52	-9.48	54	40.04	32.14	7.31	34.97	200	239	A	H
	*	2437	102.29	-	-	97.58	32.34	7.36	34.99	200	239	P	H
	*	2437	94.56	-	-	89.85	32.34	7.36	34.99	200	239	A	H
		2493.07	55.07	-18.93	74	50.18	32.5	7.4	35.01	200	239	P	H
		2483.83	44.93	-9.07	54	40.08	32.45	7.4	35	200	239	A	H
		2371.46	54.2	-19.8	74	49.79	32.14	7.24	34.97	342	174	P	V
		2352.56	44.51	-9.49	54	40.15	32.09	7.24	34.97	342	174	A	V
	*	2437	105.71	-	-	101	32.34	7.36	34.99	342	174	P	V
	*	2437	97.41	-	-	92.7	32.34	7.36	34.99	342	174	A	V
		2498.25	55.14	-18.86	74	50.25	32.5	7.4	35.01	342	174	P	V
		2495.03	45	-9	54	40.11	32.5	7.4	35.01	342	174	A	V

802.11g CH 11 2462MHz	*	2462	103.3	-	-	98.49	32.4	7.4	34.99	118	246	P	H
	*	2462	95.15	-	-	90.34	32.4	7.4	34.99	118	246	A	H
		2483.84	56.54	-17.46	74	51.69	32.45	7.4	35	118	246	P	H
		2483.52	46.78	-7.22	54	41.93	32.45	7.4	35	118	246	A	H
													H
													H
	*	2462	106.49	-	-	101.68	32.4	7.4	34.99	314	28	P	V
	*	2462	97.5	-	-	92.69	32.4	7.4	34.99	314	28	A	V
		2483.72	57.16	-16.84	74	52.31	32.45	7.4	35	314	28	P	V
		2483.68	48.27	-5.73	54	43.42	32.45	7.4	35	314	28	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	37.85	-36.15	74	51.57	33.64	11.68	59.04	100	0	P	H
													H
													H
													H
		4824	37.94	-36.06	74	51.66	33.64	11.68	59.04	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	37.66	-36.34	74	51.53	33.54	11.53	58.94	100	0	P	H
		7311	37.76	-36.24	74	47.19	34.69	13.81	57.93	100	0	P	H
													H
													H
		4874	37.69	-36.31	74	51.56	33.54	11.53	58.94	100	0	P	V
		7311	38.61	-35.39	74	48.04	34.69	13.81	57.93	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	40.14	-33.86	74	54.17	33.44	11.37	58.84	100	0	P	H
		7386	39.24	-34.76	74	48.88	34.47	13.95	58.06	100	0	P	H
													H
													H
		4924	38.96	-35.04	74	52.99	33.44	11.37	58.84	100	0	P	V
		7386	39.25	-34.75	74	48.89	34.47	13.95	58.06	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)
		2327.64	54.55	-19.45	74	50.35	31.98	7.18	34.96	224	307	P	H
		2389.275	45.06	-8.94	54	40.53	32.19	7.31	34.97	224	307	A	H
	*	2412	102.82	-	-	98.25	32.24	7.31	34.98	224	307	P	H
	*	2412	94.78	-	-	90.21	32.24	7.31	34.98	224	307	A	H
802.11n													H
HT20													H
CH 01		2382.765	54.91	-19.09	74	50.43	32.14	7.31	34.97	240	142	P	V
2412MHz		2389.8	44.88	-9.12	54	40.36	32.19	7.31	34.98	240	142	A	V
	*	2412	105.99	-	-	101.42	32.24	7.31	34.98	240	142	P	V
	*	2412	98.2	-	-	93.63	32.24	7.31	34.98	240	142	A	V
													V
													V
		2369.5	54.45	-19.55	74	50.04	32.14	7.24	34.97	227	240	P	H
		2388.12	44.62	-9.38	54	40.09	32.19	7.31	34.97	227	240	A	H
	*	2437	102.3	-	-	97.59	32.34	7.36	34.99	227	240	P	H
	*	2437	94.22	-	-	89.51	32.34	7.36	34.99	227	240	A	H
802.11n		2498.25	54.76	-19.24	74	49.87	32.5	7.4	35.01	227	240	P	H
HT20		2483.55	44.94	-9.06	54	40.09	32.45	7.4	35	227	240	A	H
CH 06		2367.4	54.72	-19.28	74	50.36	32.09	7.24	34.97	281	176	P	V
2437MHz		2389.66	44.59	-9.41	54	40.06	32.19	7.31	34.97	281	176	A	V
	*	2437	104.91	-	-	100.2	32.34	7.36	34.99	281	176	P	V
	*	2437	97.07	-	-	92.36	32.34	7.36	34.99	281	176	A	V
		2490.76	54.42	-19.58	74	49.52	32.5	7.4	35	281	176	P	V
		2489.92	44.9	-9.1	54	40	32.5	7.4	35	281	176	A	V

	*	2462	103.62	-	-	98.81	32.4	7.4	34.99	152	238	P	H
	*	2462	95.85	-	-	91.04	32.4	7.4	34.99	152	238	A	H
		2483.72	58.62	-15.38	74	53.77	32.45	7.4	35	152	238	P	H
		2483.56	47.48	-6.52	54	42.63	32.45	7.4	35	152	238	A	H
802.11n													H
HT20													H
CH 11	*	2462	105.09	-	-	100.28	32.4	7.4	34.99	244	181	P	V
2462MHz	*	2462	97.38	-	-	92.57	32.4	7.4	34.99	244	181	A	V
		2483.52	62.23	-11.77	74	57.38	32.45	7.4	35	244	181	P	V
		2483.52	49.79	-4.21	54	44.94	32.45	7.4	35	244	181	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	46.78	-27.22	74	60.5	33.64	11.68	59.04	100	0	P	H
													H
802.11n													H
HT20													H
CH 01		4824	47.89	-26.11	74	61.61	33.64	11.68	59.04	100	0	P	V
2412MHz													V
													V
													V
		4872	42.38	-31.62	74	56.25	33.54	11.53	58.94	100	0	P	H
		7308	39.75	-34.25	74	49.18	34.69	13.81	57.93	100	0	P	H
802.11n													H
HT20													H
CH 06		4872	41.59	-32.41	74	55.46	33.54	11.53	58.94	100	0	P	V
2437MHz		7308	39.17	-34.83	74	48.6	34.69	13.81	57.93	100	0	P	V
													V
													V
		4926	43.6	-30.4	74	57.63	33.44	11.37	58.84	100	0	P	H
		7386	38.57	-35.43	74	48.21	34.47	13.95	58.06	100	0	P	H
802.11n													H
HT20													H
CH 11		4926	40.8	-33.2	74	54.83	33.44	11.37	58.84	100	0	P	V
2462MHz		7386	38.55	-35.45	74	48.19	34.47	13.95	58.06	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)
		2389.52	55.99	-18.01	74	51.46	32.19	7.31	34.97	226	240	P	H
		2389.66	46.73	-7.27	54	42.2	32.19	7.31	34.97	226	240	A	H
	*	2422	99.5	-	-	94.84	32.29	7.36	34.99	226	240	P	H
	*	2422	91.74	-	-	87.08	32.29	7.36	34.99	226	240	A	H
802.11n		2493.91	55.14	-18.86	74	50.25	32.5	7.4	35.01	226	240	P	H
HT40		2483.55	45.39	-8.61	54	40.54	32.45	7.4	35	226	240	A	H
CH 03		2389.94	56.73	-17.27	74	52.21	32.19	7.31	34.98	244	143	P	V
2422MHz		2389.94	47.11	-6.89	54	42.59	32.19	7.31	34.98	244	143	A	V
	*	2422	103.05	-	-	98.39	32.29	7.36	34.99	244	143	P	V
	*	2422	95	-	-	90.34	32.29	7.36	34.99	244	143	A	V
		2485.16	54.7	-19.3	74	49.85	32.45	7.4	35	244	143	P	V
		2497.2	45.09	-8.91	54	40.2	32.5	7.4	35.01	244	143	A	V
		2360.12	54.52	-19.48	74	50.16	32.09	7.24	34.97	200	242	P	H
		2388.54	45.07	-8.93	54	40.54	32.19	7.31	34.97	200	242	A	H
	*	2437	99.88	-	-	95.17	32.34	7.36	34.99	200	242	P	H
	*	2437	92.21	-	-	87.5	32.34	7.36	34.99	200	242	A	H
802.11n		2494.75	54.86	-19.14	74	49.97	32.5	7.4	35.01	200	242	P	H
HT40		2497.83	45.55	-8.45	54	40.66	32.5	7.4	35.01	200	242	A	H
CH 06		2361.8	55.1	-18.9	74	50.74	32.09	7.24	34.97	277	180	P	V
2437MHz		2389.52	45.13	-8.87	54	40.6	32.19	7.31	34.97	277	180	A	V
	*	2437	103.64	-	-	98.93	32.34	7.36	34.99	277	180	P	V
	*	2437	95.44	-	-	90.73	32.34	7.36	34.99	277	180	A	V
		2497.9	55.54	-18.46	74	50.65	32.5	7.4	35.01	277	180	P	V
		2483.83	45.63	-8.37	54	40.78	32.45	7.4	35	277	180	A	V

802.11n HT40 CH 09 2452MHz		2377.34	54.77	-19.23	74	50.36	32.14	7.24	34.97	195	237	P	H
		2379.58	45.3	-8.7	54	40.89	32.14	7.24	34.97	195	237	A	H
	*	2452	99.58	-	-	94.87	32.34	7.36	34.99	195	237	P	H
	*	2452	91.72	-	-	87.01	32.34	7.36	34.99	195	237	A	H
		2483.76	57.33	-16.67	74	52.48	32.45	7.4	35	195	237	P	H
		2483.55	48.43	-5.57	54	43.58	32.45	7.4	35	195	237	A	H
		2378.46	55.3	-18.7	74	50.89	32.14	7.24	34.97	301	182	P	V
		2380.56	45.08	-8.92	54	40.6	32.14	7.31	34.97	301	182	A	V
	*	2452	102.12	-	-	97.41	32.34	7.36	34.99	301	182	P	V
	*	2452	94.3	-	-	89.59	32.34	7.36	34.99	301	182	A	V
		2483.52	58.27	-15.73	74	53.42	32.45	7.4	35	301	182	P	V
		2483.52	48.86	-5.14	54	44.01	32.45	7.4	35	301	182	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)
		4842	38.84	-35.16	74	52.56	33.61	11.68	59.01	100	0	P	H
		7266	39.33	-34.67	74	48.69	34.78	13.75	57.89	100	0	P	H
802.11n													H
HT40													H
CH 03		4842	39.61	-34.39	74	53.33	33.61	11.68	59.01	100	0	P	V
2422MHz		7266	38.91	-35.09	74	48.27	34.78	13.75	57.89	100	0	P	V
													V
													V
		4874	38.52	-35.48	74	52.39	33.54	11.53	58.94	100	0	P	H
		7308	39.44	-34.56	74	48.87	34.69	13.81	57.93	100	0	P	H
802.11n													H
HT40													H
CH 06		4872	38.27	-35.73	74	52.14	33.54	11.53	58.94	100	0	P	V
2437MHz		7308	39.94	-34.06	74	49.37	34.69	13.81	57.93	100	0	P	V
													V
													V
		4902	39.73	-34.27	74	53.76	33.47	11.37	58.87	100	0	P	H
		7356	38.14	-35.86	74	47.71	34.56	13.88	58.01	100	0	P	H
802.11n													H
HT40													H
CH 09		4902	38.5	-35.5	74	52.53	33.47	11.37	58.87	100	0	P	V
2452MHz		7356	38.74	-35.26	74	48.31	34.56	13.88	58.01	100	0	P	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		30	28.34	-11.66	40	32.62	26	1.07	31.35	-	-	P	H
		81.3	24.92	-15.08	40	41.17	14.02	1.28	31.55	-	-	P	H
		179.58	33.13	-10.37	43.5	47.39	15.45	1.78	31.49	200	122	P	H
		332.2	27.53	-18.47	46	35.64	20.72	2.41	31.24	-	-	P	H
		634.6	29.59	-16.41	46	31.07	25.74	3.57	30.79	-	-	P	H
		947.5	33.65	-12.35	46	29.96	30.15	4.07	30.53	-	-	P	H
													H
													H
													H
													H
													H
													H
		35.94	32.98	-7.02	40	40.62	22.72	1.07	31.43	100	79	P	V
		49.44	26.95	-13.05	40	41.96	15.52	1.07	31.6	-	-	P	V
		63.48	25.48	-14.52	40	43.5	12.28	1.28	31.58	-	-	P	V
		435.1	24.92	-21.08	46	30.25	22.9	2.89	31.12	-	-	P	V
		667.5	29.93	-16.07	46	30.96	26.07	3.65	30.75	-	-	P	V
		935.6	33.32	-12.68	46	29.86	29.87	4.12	30.53	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

5. No other spurious found.
6. All results are PASS against limit line.

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 12 2467MHz	*	2467	102.99	28.99	74	98.19	32.4	7.4	35	168	150	P	H
	*	2467	99.79	45.79	54	94.99	32.4	7.4	35	168	150	A	H
		2492.6	55.1	-18.9	74	50.21	32.5	7.4	35.01	168	150	P	H
		2484.2	44.89	-9.11	54	40.04	32.45	7.4	35	168	150	A	H
													H
													H
	*	2467	102.21	28.21	74	97.41	32.4	7.4	35	345	200	P	V
	*	2467	98.94	44.94	54	94.14	32.4	7.4	35	345	200	A	V
		2488.2	55.18	-18.82	74	50.28	32.5	7.4	35	345	200	P	V
		2484.2	45.68	-8.32	54	40.83	32.45	7.4	35	345	200	A	V
													V
													V
802.11b CH 13 2472MHz	*	2472	102.79	28.79	74	97.94	32.45	7.4	35	190	154	P	H
	*	2472	99.83	45.83	54	94.98	32.45	7.4	35	190	154	A	H
		2484.68	56.73	-17.27	74	51.88	32.45	7.4	35	190	154	P	H
		2484.64	48.21	-5.79	54	43.36	32.45	7.4	35	190	154	A	H
													H
													H
	*	2472	103.27	29.27	74	98.42	32.45	7.4	35	345	207	P	V
	*	2472	100.23	46.23	54	95.38	32.45	7.4	35	345	207	A	V
		2484.6	55.65	-18.35	74	50.8	32.45	7.4	35	345	207	P	V
		2487.52	47.84	-6.16	54	42.94	32.5	7.4	35	345	207	A	V
													V
													V
Remark	7. No other spurious found. 8. 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 12 2467MHz		4932	46.3	-27.7	74	60.33	33.44	11.37	58.84	100	0	P	H
		7404	40.23	-33.77	74	49.94	34.42	13.95	58.08	100	0	P	H
													H
													H
		4932	45	-29	74	59.03	33.44	11.37	58.84	100	0	P	V
		7404	40.56	-33.44	74	50.27	34.42	13.95	58.08	100	0	P	V
													V
													V
802.11b CH 13 2472MHz		4944	47.74	-26.26	74	61.92	33.4	11.22	58.8	100	0	P	H
		7416	39.78	-34.22	74	49.49	34.42	13.95	58.08	100	0	P	H
													H
													H
		4944	45.17	-28.83	74	59.35	33.4	11.22	58.8	100	0	P	V
		7416	39.42	-34.58	74	49.13	34.42	13.95	58.08	100	0	P	V
													V
													V
Remark	9. No other spurious found. 10. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 12 2467MHz	*	2467	105.85	31.85	74	101.05	32.4	7.4	35	170	155	P	H
	*	2467	98.26	44.26	54	93.46	32.4	7.4	35	170	155	A	H
		2483.52	63.21	-10.79	74	58.36	32.45	7.4	35	170	155	P	H
		2483.52	49.94	-4.06	54	45.09	32.45	7.4	35	170	155	A	H
													H
													H
	*	2467	105.75	31.75	74	100.95	32.4	7.4	35	343	202	P	V
	*	2467	98.05	44.05	54	93.25	32.4	7.4	35	343	202	A	V
		2484.6	64.9	-9.1	74	60.05	32.45	7.4	35	343	202	P	V
		2483.52	50.15	-3.85	54	45.3	32.45	7.4	35	343	202	A	V
													V
													V
802.11g CH 12 2472MHz	*	2472	90.73	16.73	74	85.88	32.45	7.4	35	142	150	P	H
	*	2472	82.85	28.85	54	78	32.45	7.4	35	142	150	A	H
		2483.64	61.38	-12.62	74	56.53	32.45	7.4	35	142	150	P	H
		2483.52	50.93	-3.07	54	46.08	32.45	7.4	35	142	150	A	H
													H
													H
	*	2472	92.93	18.93	74	88.08	32.45	7.4	35	346	209	P	V
	*	2472	84.23	30.23	54	79.38	32.45	7.4	35	346	209	A	V
		2484.08	64.51	-9.49	74	59.66	32.45	7.4	35	346	209	P	V
		2483.68	53.36	-0.64	54	48.51	32.45	7.4	35	346	209	A	V
													V
													V
Remark	11. No other spurious found. 12. 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 12 2467MHz		4932	43.57	-30.43	74	57.6	33.44	11.37	58.84	100	0	P	H
		7404	39.81	-34.19	74	49.52	34.42	13.95	58.08	100	0	P	H
													H
													H
		4932	42.04	-31.96	74	56.07	33.44	11.37	58.84	100	0	P	V
		7404	39.62	-34.38	74	49.33	34.42	13.95	58.08	100	0	P	V
													V
													V
802.11g CH 13 2472MHz		4944	42.79	-31.21	74	56.97	33.4	11.22	58.8	100	0	P	H
		7416	39.19	-34.81	74	48.9	34.42	13.95	58.08	100	0	P	H
													H
													H
		4944	40.52	-33.48	74	54.7	33.4	11.22	58.8	100	0	P	V
		7416	39.6	-34.4	74	49.31	34.42	13.95	58.08	100	0	P	V
													V
													V
Remark	13. No other spurious found. 14. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	*	2467	106.03	32.03	74	101.23	32.4	7.4	35	138	159	P	H
	*	2467	97.97	43.97	54	93.17	32.4	7.4	35	138	159	A	H
		2483.64	58.09	-15.91	74	53.24	32.45	7.4	35	138	159	P	H
		2483.52	48.71	-5.29	54	43.86	32.45	7.4	35	138	159	A	H
802.11n													H
HT20													H
CH 12	*	2467	106.29	32.29	74	101.49	32.4	7.4	35	346	212	P	V
2467MHz	*	2467	98.44	44.44	54	93.64	32.4	7.4	35	346	212	A	V
		2483.76	62.89	-11.11	74	58.04	32.45	7.4	35	346	212	P	V
		2483.52	51.5	-2.5	54	46.65	32.45	7.4	35	346	212	A	V
													V
													V
	*	2472	90.08	16.08	74	85.23	32.45	7.4	35	147	148	P	H
	*	2472	82.54	28.54	54	77.69	32.45	7.4	35	147	148	A	H
		2483.88	64.52	-9.48	74	59.67	32.45	7.4	35	147	148	P	H
		2483.52	50.8	-3.2	54	45.95	32.45	7.4	35	147	148	A	H
802.11n													H
HT20													H
CH 12	*	2472	91.15	17.15	74	86.3	32.45	7.4	35	345	207	P	V
2472MHz	*	2472	83.79	29.79	54	78.94	32.45	7.4	35	345	207	A	V
		2483.72	66.92	-7.08	74	62.07	32.45	7.4	35	345	207	P	V
		2483.52	53.36	-0.64	54	48.51	32.45	7.4	35	345	207	A	V
													V
													V

Remark

15. No other spurious found.
16. 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)
		4932	42.8	-31.2	74	56.83	33.44	11.37	58.84	100	0	P	H
		7404	39.28	-34.72	74	48.99	34.42	13.95	58.08	100	0	P	H
802.11n													H
HT20													H
CH 12		4932	41.75	-32.25	74	55.78	33.44	11.37	58.84	100	0	P	V
2467MHz		7404	40.32	-33.68	74	50.03	34.42	13.95	58.08	100	0	P	V
													V
													V
		4944	40.76	-33.24	74	54.94	33.4	11.22	58.8	100	0	P	H
		7416	39.48	-34.52	74	49.19	34.42	13.95	58.08	100	0	P	H
802.11n													H
HT20													H
CH 13		4944	40.11	-33.89	74	54.29	33.4	11.22	58.8	100	0	P	V
2472MHz		7416	39.3	-34.7	74	49.01	34.42	13.95	58.08	100	0	P	V
													V
													V
Remark	17. No other spurious found. 18. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2386.72	54.87	-19.13	74	50.34	32.19	7.31	34.97	151	155	P	H
		2375.24	45.21	-8.79	54	40.8	32.14	7.24	34.97	151	155	A	H
	*	2457	103.31	29.31	74	98.54	32.4	7.36	34.99	151	155	P	H
	*	2457	95.41	41.41	54	90.64	32.4	7.36	34.99	151	155	A	H
802.11n		2483.69	60.41	-13.59	74	55.56	32.45	7.4	35	151	155	P	H
HT40		2483.52	51.24	-2.76	54	46.39	32.45	7.4	35	151	155	A	H
CH 10		2384.9	54.54	-19.46	74	50.06	32.14	7.31	34.97	344	178	P	V
2457MHz		2375.8	45.12	-8.88	54	40.71	32.14	7.24	34.97	344	178	A	V
	*	2457	101.98	27.98	74	97.21	32.4	7.36	34.99	344	178	P	V
	*	2457	93.99	39.99	54	89.22	32.4	7.36	34.99	344	178	A	V
		2483.52	58.75	-15.25	74	53.9	32.45	7.4	35	344	178	P	V
		2483.52	49.7	-4.3	54	44.85	32.45	7.4	35	344	178	A	V
		2352.84	55.18	-18.82	74	50.82	32.09	7.24	34.97	150	156	P	H
		2385.18	45.37	-8.63	54	40.89	32.14	7.31	34.97	150	156	A	H
	*	2462	90.32	16.32	74	85.51	32.4	7.4	34.99	150	156	P	H
	*	2462	82.02	28.02	54	77.21	32.4	7.4	34.99	150	156	A	H
802.11n		2484.39	58.99	-15.01	74	54.14	32.45	7.4	35	150	156	P	H
HT40		2483.52	51.1	-2.9	54	46.25	32.45	7.4	35	150	156	A	H
CH 11		2386.72	54.65	-19.35	74	50.12	32.19	7.31	34.97	346	200	P	V
2462MHz		2379.16	45.25	-8.75	54	40.84	32.14	7.24	34.97	346	200	A	V
	*	2462	89.23	15.23	74	84.42	32.4	7.4	34.99	346	200	P	V
	*	2462	81.91	27.91	54	77.1	32.4	7.4	34.99	346	200	A	V
		2483.76	62.61	-11.39	74	57.76	32.45	7.4	35	346	200	P	V
		2483.55	53.21	-0.79	54	48.36	32.45	7.4	35	346	200	A	V
Remark	19. No other spurious found. 20. 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)
		4914	40.63	-33.37	74	54.66	33.47	11.37	58.87	100	0	P	H
		7368	38.94	-35.06	74	48.58	34.51	13.88	58.03	100	0	P	H
802.11n													H
HT40													H
CH 10		4914	39.76	-34.24	74	53.79	33.47	11.37	58.87	100	0	P	V
2457MHz		7368	40.08	-33.92	74	49.72	34.51	13.88	58.03	100	0	P	V
													V
													V
		4926	39.34	-34.66	74	53.37	33.44	11.37	58.84	100	0	P	H
		7386	38.9	-35.1	74	48.54	34.47	13.95	58.06	100	0	P	H
802.11n													H
HT40													H
CH 11		4926	39.09	-34.91	74	53.12	33.44	11.37	58.84	100	0	P	V
2462MHz		7386	39.44	-34.56	74	49.08	34.47	13.95	58.06	100	0	P	V
													V
													V
Remark	21. No other spurious found. 22. All results are PASS against Peak and Average 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”.

<Ant. 2>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (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)
802.11b CH 01 2412MHz		2388.225	54.74	-19.26	74	50.21	32.19	7.31	34.97	101	130	P	H
		2389.065	44.25	-9.75	54	39.72	32.19	7.31	34.97	101	130	A	H
	*	2412	105.59	-	-	101.02	32.24	7.31	34.98	101	130	P	H
	*	2412	101.69	-	-	97.12	32.24	7.31	34.98	101	130	A	H
													H
													H
		2363.76	54.47	-19.53	74	50.11	32.09	7.24	34.97	348	288	P	V
		2389.065	44	-10	54	39.47	32.19	7.31	34.97	348	288	A	V
	*	2414	101.58	-	-	97.01	32.24	7.31	34.98	348	288	P	V
	*	2414	98.57	-	-	94	32.24	7.31	34.98	348	288	A	V
													V
													V
802.11b CH 06 2437MHz		2386.02	54.3	-19.7	74	49.77	32.19	7.31	34.97	137	122	P	H
		2388.26	44.02	-9.98	54	39.49	32.19	7.31	34.97	137	122	A	H
	*	2437	104.12	-	-	99.41	32.34	7.36	34.99	137	122	P	H
	*	2437	101.14	-	-	96.43	32.34	7.36	34.99	137	122	A	H
		2483.76	54.87	-19.13	74	50.02	32.45	7.4	35	137	122	P	H
		2484.88	44.45	-9.55	54	39.6	32.45	7.4	35	137	122	A	H
		2359	54.02	-19.98	74	49.66	32.09	7.24	34.97	348	288	P	V
		2389.24	43.9	-10.1	54	39.37	32.19	7.31	34.97	348	288	A	V
	*	2437	101.72	-	-	97.01	32.34	7.36	34.99	348	288	P	V
	*	2437	98.48	-	-	93.77	32.34	7.36	34.99	348	288	A	V
		2484.25	54.68	-19.32	74	49.83	32.45	7.4	35	348	288	P	V
		2488.17	44.15	-9.85	54	39.25	32.5	7.4	35	348	288	A	V

802.11b CH 11 2462MHz	*	2462	106.07	-	-	101.26	32.4	7.4	34.99	158	124	P	H
	*	2462	102.78	-	-	97.97	32.4	7.4	34.99	158	124	A	H
		2484.72	54.86	-19.14	74	50.01	32.45	7.4	35	158	124	P	H
		2483.52	45.56	-8.44	54	40.71	32.45	7.4	35	158	124	A	H
													H
													H
	*	2462	102.26	-	-	97.45	32.4	7.4	34.99	339	294	P	V
	*	2462	98.98	-	-	94.17	32.4	7.4	34.99	339	294	A	V
		2484.6	55.34	-18.66	74	50.49	32.45	7.4	35	339	294	P	V
		2485.68	44.29	-9.71	54	39.44	32.45	7.4	35	339	294	A	V
													V
													V

Remark

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

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	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	42.69	-31.31	74	56.41	33.64	11.68	59.04	100	0	P	H
													H
													H
													H
		4824	42.41	-31.59	74	56.13	33.64	11.68	59.04	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	41.11	-32.89	74	54.98	33.54	11.53	58.94	100	0	P	H
		7311	40.33	-33.67	74	49.76	34.69	13.81	57.93	100	0	P	H
													H
													H
		4874	40.05	-33.95	74	53.92	33.54	11.53	58.94	100	0	P	V
		7311	40.18	-33.82	74	49.61	34.69	13.81	57.93	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	45.6	-28.4	74	59.63	33.44	11.37	58.84	100	0	P	H
		7386	39.25	-34.75	74	48.89	34.47	13.95	58.06	100	0	P	H
													H
													H
		4924	42.19	-31.81	74	56.22	33.44	11.37	58.84	100	0	P	V
		7386	38.62	-35.38	74	48.26	34.47	13.95	58.06	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2388.855	54.72	-19.28	74	50.19	32.19	7.31	34.97	164	63	P	H
		2390	45.99	-8.01	54	41.47	32.19	7.31	34.98	164	63	A	H
	*	2412	107.35	-	-	102.78	32.24	7.31	34.98	164	63	P	H
	*	2412	100.06	-	-	95.49	32.24	7.31	34.98	164	63	A	H
													H
													H
		2388.435	56.24	-17.76	74	51.71	32.19	7.31	34.97	304	266	P	V
		2390	45.52	-8.48	54	41	32.19	7.31	34.98	304	266	A	V
	*	2412	105.56	-	-	100.99	32.24	7.31	34.98	304	266	P	V
	*	2412	98.24	-	-	93.67	32.24	7.31	34.98	304	266	A	V
													V
													V
802.11g CH 06 2437MHz		2377.34	55.22	-18.78	74	50.81	32.14	7.24	34.97	100	63	P	H
		2382.24	44.74	-9.26	54	40.26	32.14	7.31	34.97	100	63	A	H
	*	2437	108.43	-	-	103.72	32.34	7.36	34.99	100	63	P	H
	*	2437	100.58	-	-	95.87	32.34	7.36	34.99	100	63	A	H
		2486.77	54.86	-19.14	74	50.01	32.45	7.4	35	100	63	P	H
		2486.77	45.08	-8.92	54	40.23	32.45	7.4	35	100	63	A	H
		2371.74	54.97	-19.03	74	50.56	32.14	7.24	34.97	351	262	P	V
		2385.18	44.6	-9.4	54	40.12	32.14	7.31	34.97	351	262	A	V
	*	2437	106.39	-	-	101.68	32.34	7.36	34.99	351	262	P	V
	*	2437	99.17	-	-	94.46	32.34	7.36	34.99	351	262	A	V
		2489.01	54.73	-19.27	74	49.83	32.5	7.4	35	351	262	P	V
		2483.83	45.25	-8.75	54	40.4	32.45	7.4	35	351	262	A	V

802.11g CH 11 2462MHz	*	2462	105.99	-	-	101.18	32.4	7.4	34.99	136	67	P	H
	*	2462	98.52	-	-	93.71	32.4	7.4	34.99	136	67	A	H
		2483.56	60.86	-13.14	74	56.01	32.45	7.4	35	136	67	P	H
		2483.64	51.89	-2.11	54	47.04	32.45	7.4	35	136	67	A	H
													H
													H
	*	2462	106.88	-	-	102.07	32.4	7.4	34.99	327	260	P	V
	*	2462	99.76	-	-	94.95	32.4	7.4	34.99	327	260	A	V
		2483.92	62.13	-11.87	74	57.28	32.45	7.4	35	327	260	P	V
		2483.52	52.33	-1.67	54	47.48	32.45	7.4	35	327	260	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	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	40.46	-33.54	74	54.18	33.64	11.68	59.04	100	0	P	H
													H
													H
													H
		4824	38.76	-35.24	74	52.48	33.64	11.68	59.04	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	38.53	-35.47	74	52.4	33.54	11.53	58.94	100	0	P	H
		7311	38.69	-35.31	74	48.12	34.69	13.81	57.93	100	0	P	H
													H
													H
		4874	38.74	-35.26	74	52.61	33.54	11.53	58.94	100	0	P	V
		7311	38.62	-35.38	74	48.05	34.69	13.81	57.93	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	42.39	-31.61	74	56.42	33.44	11.37	58.84	100	0	P	H
		7386	38.55	-35.45	74	48.19	34.47	13.95	58.06	100	0	P	H
													H
													H
		4924	40.25	-33.75	74	54.28	33.44	11.37	58.84	100	0	P	V
		7386	39.36	-34.64	74	49	34.47	13.95	58.06	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. 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)
		2377.62	55.55	-18.45	74	51.14	32.14	7.24	34.97	164	63	P	H
		2389.59	45.63	-8.37	54	41.1	32.19	7.31	34.97	164	63	A	H
	*	2412	107.38	-	-	102.81	32.24	7.31	34.98	164	63	P	H
	*	2412	99.74	-	-	95.17	32.24	7.31	34.98	164	63	A	H
802.11n													H
HT20													H
CH 01		2340.03	54.45	-19.55	74	50.15	32.03	7.24	34.97	304	266	P	V
2412MHz		2390	45.36	-8.64	54	40.84	32.19	7.31	34.98	304	266	A	V
	*	2412	105.39	-	-	100.82	32.24	7.31	34.98	304	266	P	V
	*	2412	97.98	-	-	93.41	32.24	7.31	34.98	304	266	A	V
													V
													V
		2369.78	55.82	-18.18	74	51.41	32.14	7.24	34.97	100	63	P	H
		2387.98	44.75	-9.25	54	40.22	32.19	7.31	34.97	100	63	A	H
	*	2437	107.79	-	-	103.08	32.34	7.36	34.99	100	63	P	H
	*	2437	99.96	-	-	95.25	32.34	7.36	34.99	100	63	A	H
802.11n		2491.11	54.54	-19.46	74	49.64	32.5	7.4	35	100	63	P	H
HT20		2483.62	45.09	-8.91	54	40.24	32.45	7.4	35	100	63	A	H
CH 06		2365.02	54.63	-19.37	74	50.27	32.09	7.24	34.97	351	262	P	V
2437MHz		2374.82	44.79	-9.21	54	40.38	32.14	7.24	34.97	351	262	A	V
	*	2437	106.25	-	-	101.54	32.34	7.36	34.99	351	262	P	V
	*	2437	99.04	-	-	94.33	32.34	7.36	34.99	351	262	A	V
		2496.99	54.12	-19.88	74	49.23	32.5	7.4	35.01	351	262	P	V
		2489.36	45.07	-8.93	54	40.17	32.5	7.4	35	351	262	A	V

	*	2462	108.8	-	-	103.99	32.4	7.4	34.99	122	69	P	H
	*	2462	100.64	-	-	95.83	32.4	7.4	34.99	122	69	A	H
		2484	61.53	-12.47	74	56.68	32.45	7.4	35	122	69	P	H
		2483.56	50.91	-3.09	54	46.06	32.45	7.4	35	122	69	A	H
802.11n													H
HT20													H
CH 11	*	2462	105.95	-	-	101.14	32.4	7.4	34.99	296	298	P	V
2462MHz	*	2462	98.12	-	-	93.31	32.4	7.4	34.99	296	298	A	V
		2484	62.01	-11.99	74	57.16	32.45	7.4	35	296	298	P	V
		2483.64	48.61	-5.39	54	43.76	32.45	7.4	35	296	298	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. 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	40.61	-33.39	74	54.33	33.64	11.68	59.04	100	0	P	H
													H
802.11n													H
HT20													H
CH 01		4824	38.88	-35.12	74	52.6	33.64	11.68	59.04	100	0	P	V
2412MHz													V
													V
													V
		4874	39.52	-34.48	74	53.39	33.54	11.53	58.94	100	0	P	H
		7311	39	-35	74	48.43	34.69	13.81	57.93	100	0	P	H
802.11n													H
HT20													H
CH 06		4874	39.04	-34.96	74	52.91	33.54	11.53	58.94	100	0	P	V
2437MHz		7311	38.79	-35.21	74	48.22	34.69	13.81	57.93	100	0	P	V
													V
													V
		4926	41.36	-32.64	74	55.39	33.44	11.37	58.84	100	0	P	H
		7386	39.27	-34.73	74	48.91	34.47	13.95	58.06	100	0	P	H
802.11n													H
HT20													H
CH 11		4926	40.56	-33.44	74	54.59	33.44	11.37	58.84	100	0	P	V
2462MHz		7386	38.87	-35.13	74	48.51	34.47	13.95	58.06	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. 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)
		2389.38	58.33	-15.67	74	53.8	32.19	7.31	34.97	124	128	P	H
		2389.8	50.36	-3.64	54	45.84	32.19	7.31	34.98	124	128	A	H
	*	2422	105.21	-	-	100.55	32.29	7.36	34.99	124	128	P	H
	*	2422	97.86	-	-	93.2	32.29	7.36	34.99	124	128	A	H
802.11n		2491.11	55.19	-18.81	74	50.29	32.5	7.4	35	124	128	P	H
HT40		2498.32	45.91	-8.09	54	41.02	32.5	7.4	35.01	124	128	A	H
CH 03		2389.66	55.81	-18.19	74	51.28	32.19	7.31	34.97	341	292	P	V
2422MHz		2389.52	47.05	-6.95	54	42.52	32.19	7.31	34.97	341	292	A	V
	*	2422	102.73	-	-	98.07	32.29	7.36	34.99	341	292	P	V
	*	2422	94.75	-	-	90.09	32.29	7.36	34.99	341	292	A	V
		2495.45	54.58	-19.42	74	49.69	32.5	7.4	35.01	341	292	P	V
		2489.71	45.74	-8.26	54	40.84	32.5	7.4	35	341	292	A	V
		2389.24	54.75	-19.25	74	50.22	32.19	7.31	34.97	169	128	P	H
		2389.66	46.25	-7.75	54	41.72	32.19	7.31	34.97	169	128	A	H
	*	2437	105.16	-	-	100.45	32.34	7.36	34.99	169	128	P	H
	*	2437	97.07	-	-	92.36	32.34	7.36	34.99	169	128	A	H
802.11n		2488.17	54.94	-19.06	74	50.04	32.5	7.4	35	169	128	P	H
HT40		2483.55	46.16	-7.84	54	41.31	32.45	7.4	35	169	128	A	H
CH 06		2359.84	55.01	-18.99	74	50.65	32.09	7.24	34.97	345	291	P	V
2437MHz		2389.94	45.75	-8.25	54	41.23	32.19	7.31	34.98	345	291	A	V
	*	2437	102.49	-	-	97.78	32.34	7.36	34.99	345	291	P	V
	*	2437	94.6	-	-	89.89	32.34	7.36	34.99	345	291	A	V
		2484.11	55.11	-18.89	74	50.26	32.45	7.4	35	345	291	P	V
		2498.39	46.03	-7.97	54	41.14	32.5	7.4	35.01	345	291	A	V

		2352.7	54.61	-19.39	74	50.25	32.09	7.24	34.97	169	128	P	H
		2389.94	46.06	-7.94	54	41.54	32.19	7.31	34.98	169	128	A	H
	*	2452	105	-	-	100.29	32.34	7.36	34.99	169	128	P	H
	*	2452	97.36	-	-	92.65	32.34	7.36	34.99	169	128	A	H
802.11n		2484.32	57.08	-16.92	74	52.23	32.45	7.4	35	169	128	P	H
HT40		2483.52	47.78	-6.22	54	42.93	32.45	7.4	35	169	128	A	H
CH 09		2338.7	54.38	-19.62	74	50.13	32.03	7.18	34.96	345	291	P	V
2452MHz		2389.66	45.76	-8.24	54	41.23	32.19	7.31	34.97	345	291	A	V
	*	2452	102.69	-	-	97.98	32.34	7.36	34.99	345	291	P	V
	*	2452	95.04	-	-	90.33	32.34	7.36	34.99	345	291	A	V
		2493.21	54.48	-19.52	74	49.59	32.5	7.4	35.01	345	291	P	V
		2486.84	45.94	-8.06	54	41.09	32.45	7.4	35	345	291	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	37.87	-36.13	74	51.59	33.61	11.68	59.01	100	0	P	H
		7266	38.82	-35.18	74	48.18	34.78	13.75	57.89	100	0	P	H
802.11n													H
HT40													H
CH 03		4844	39.86	-34.14	74	53.58	33.61	11.68	59.01	100	0	P	V
2422MHz		7266	39.04	-34.96	74	48.4	34.78	13.75	57.89	100	0	P	V
													V
													V
		4874	39.35	-34.65	74	53.22	33.54	11.53	58.94	100	0	P	H
		7311	39.06	-34.94	74	48.49	34.69	13.81	57.93	100	0	P	H
802.11n													H
HT40													H
CH 06		4874	38.57	-35.43	74	52.44	33.54	11.53	58.94	100	0	P	V
2437MHz		7311	39.4	-34.6	74	48.83	34.69	13.81	57.93	100	0	P	V
													V
													V
		4904	39.57	-34.43	74	53.6	33.47	11.37	58.87	100	0	P	H
		7356	39.88	-34.12	74	49.45	34.56	13.88	58.01	100	0	P	H
802.11n													H
HT40													H
CH 09		4904	38.43	-35.57	74	52.46	33.47	11.37	58.87	100	0	P	V
2452MHz		7356	38.78	-35.22	74	48.35	34.56	13.88	58.01	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 802.11g (LF)

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)
2.4GHz 802.11g LF		30.27	27.64	-12.36	40	31.92	26	1.07	31.35	100	0	P	H
		48.63	25.75	-14.25	40	40.34	15.93	1.07	31.59	-	-	P	H
		182.28	27.79	-15.71	43.5	41.99	15.42	1.87	31.49	-	-	P	H
		474.3	26.42	-19.58	46	30.81	23.63	3.04	31.06	-	-	P	H
		803.3	32.22	-13.78	46	31.15	27.76	3.9	30.59	-	-	P	H
		916.7	33.56	-12.44	46	30.58	29.4	4.12	30.54	-	-	P	H
													H
													H
													H
													H
													H
													H
		35.67	33.66	-6.34	40	41.3	22.72	1.07	31.43	100	81	P	V
		62.67	29.03	-10.97	40	47.12	12.21	1.28	31.58	-	-	P	V
		167.43	24.3	-19.2	43.5	37.81	16.2	1.78	31.49	-	-	P	V
		468.7	25.64	-20.36	46	30.17	23.5	3.04	31.07	-	-	P	V
		736.8	30.07	-15.93	46	30	27	3.74	30.67	-	-	P	V
		949.6	33.28	-12.72	46	29.54	30.2	4.07	30.53	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11b (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)
802.11b CH 12 2467MHz	*	2467	105.93	31.93	74	101.13	32.4	7.4	35	100	309	P	H
	*	2467	102.21	48.21	54	97.41	32.4	7.4	35	100	309	A	H
		2483.56	56.04	-17.96	74	51.19	32.45	7.4	35	100	309	P	H
		2484.08	47.65	-6.35	54	42.8	32.45	7.4	35	100	309	A	H
													H
													H
	*	2467	103.54	29.54	74	98.74	32.4	7.4	35	351	144	P	V
	*	2467	100.26	46.26	54	95.46	32.4	7.4	35	351	144	A	V
		2484.4	55.46	-18.54	74	50.61	32.45	7.4	35	351	144	P	V
		2484.44	46.18	-7.82	54	41.33	32.45	7.4	35	351	144	A	V
													V
													V
802.11b CH 13 2472Mz	*	2472	104.98	30.98	74	100.13	32.45	7.4	35	100	309	P	H
	*	2472	101.94	47.94	54	97.09	32.45	7.4	35	100	309	A	H
		2483.6	58.54	-15.46	74	53.69	32.45	7.4	35	100	309	P	H
		2483.52	51.08	-2.92	54	46.23	32.45	7.4	35	100	309	A	H
													H
													H
	*	2472	103.49	29.49	74	98.64	32.45	7.4	35	349	143	P	V
	*	2472	100.47	46.47	54	95.62	32.45	7.4	35	349	143	A	V
		2483.56	56.84	-17.16	74	51.99	32.45	7.4	35	349	143	P	V
		2484.72	49.72	-4.28	54	44.87	32.45	7.4	35	349	143	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz		4932	39.45	-34.55	74	53.48	33.44	11.37	58.84	100	0	P	H
		7404	39.31	-34.69	74	49.02	34.42	13.95	58.08	100	0	P	H
													H
													H
		4932	38.71	-35.29	74	52.74	33.44	11.37	58.84	100	0	P	V
		7404	39.52	-34.48	74	49.23	34.42	13.95	58.08	100	0	P	V
													V
													V
802.11b CH 13 2472MHz		4944	45.89	-28.11	74	60.07	33.4	11.22	58.8	100	0	P	H
		7416	39.18	-34.82	74	48.89	34.42	13.95	58.08	100	0	P	H
													H
													H
		4944	42.54	-31.46	74	56.72	33.4	11.22	58.8	100	0	P	V
		7416	39.2	-34.8	74	48.91	34.42	13.95	58.08	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 12 2467MHz	*	2467	108.39	34.39	74	103.59	32.4	7.4	35	100	309	P	H
	*	2467	101.07	47.07	54	96.27	32.4	7.4	35	100	309	A	H
		2483.96	60.02	-13.98	74	55.17	32.45	7.4	35	100	309	P	H
		2483.64	50.19	-3.81	54	45.34	32.45	7.4	35	100	309	A	H
													H
													H
	*	2467	105.82	31.82	74	101.02	32.4	7.4	35	350	145	P	V
	*	2467	98.52	44.52	54	93.72	32.4	7.4	35	350	145	A	V
		2485.12	60.84	-13.16	74	55.99	32.45	7.4	35	350	145	P	V
		2483.6	49.61	-4.39	54	44.76	32.45	7.4	35	350	145	A	V
													V
													V
802.11g CH 13 2472MHz	*	2472	94.27	20.27	74	89.42	32.45	7.4	35	100	307	P	H
	*	2472	86.04	32.04	54	81.19	32.45	7.4	35	100	307	A	H
		2483.52	64.83	-9.17	74	59.98	32.45	7.4	35	100	307	P	H
		2483.68	53.41	-0.59	54	48.56	32.45	7.4	35	100	307	A	H
													H
													H
	*	2472	92.25	18.25	74	87.4	32.45	7.4	35	352	143	P	V
	*	2472	84.61	30.61	54	79.76	32.45	7.4	35	352	143	A	V
		2483.6	64.01	-9.99	74	59.16	32.45	7.4	35	352	143	P	V
		2483.52	51.83	-2.17	54	46.98	32.45	7.4	35	352	143	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 12 2467MHz		4932	41.29	-32.71	74	55.32	33.44	11.37	58.84	100	0	P	H
		7404	39.52	-34.48	74	49.23	34.42	13.95	58.08	100	0	P	H
													H
													H
		4932	40.51	-33.49	74	54.54	33.44	11.37	58.84	100	0	P	V
		7404	39.23	-34.77	74	48.94	34.42	13.95	58.08	100	0	P	V
													V
													V
802.11g CH 13 2472MHz		4944	39.78	-34.22	74	53.96	33.4	11.22	58.8	100	0	P	H
		7416	40.27	-33.73	74	49.98	34.42	13.95	58.08	100	0	P	H
													H
													H
		4944	39.89	-34.11	74	54.07	33.4	11.22	58.8	100	0	P	V
		7416	38.5	-35.5	74	48.21	34.42	13.95	58.08	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. 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)
	*	2467	109.02	35.02	74	104.22	32.4	7.4	35	100	308	P	H
	*	2467	101.38	47.38	54	96.58	32.4	7.4	35	100	308	A	H
		2483.76	64.04	-9.96	74	59.19	32.45	7.4	35	100	308	P	H
		2483.8	52.46	-1.54	54	47.61	32.45	7.4	35	100	308	A	H
802.11n													H
HT20													H
CH 12	*	2467	106.77	32.77	74	101.97	32.4	7.4	35	353	144	P	V
2467MHz	*	2467	99.28	45.28	54	94.48	32.4	7.4	35	353	144	A	V
		2486.68	62.84	-11.16	74	57.99	32.45	7.4	35	353	144	P	V
		2483.56	52.17	-1.83	54	47.32	32.45	7.4	35	353	144	A	V
													V
													V
	*	2472	93.19	19.19	74	88.34	32.45	7.4	35	100	307	P	H
	*	2472	85.87	31.87	54	81.02	32.45	7.4	35	100	307	A	H
		2483.68	65.4	-8.6	74	60.55	32.45	7.4	35	100	307	P	H
		2483.52	53.41	-0.59	54	48.56	32.45	7.4	35	100	307	A	H
802.11n													H
HT20													H
CH 13	*	2472	92.06	18.06	74	87.21	32.45	7.4	35	354	145	P	V
2472MHz	*	2472	84.36	30.36	54	79.51	32.45	7.4	35	354	145	A	V
		2483.56	65.23	-8.77	74	60.38	32.45	7.4	35	354	145	P	V
		2483.56	52.1	-1.9	54	47.25	32.45	7.4	35	354	145	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. 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)
		4932	42.21	-31.79	74	56.24	33.44	11.37	58.84	100	0	P	H
		7404	39.59	-34.41	74	49.3	34.42	13.95	58.08	100	0	P	H
802.11n													H
HT20													H
CH 12		4932	40.3	-33.7	74	54.33	33.44	11.37	58.84	100	0	P	V
2467MHz		7401	39.46	-34.54	74	49.17	34.42	13.95	58.08	100	0	P	V
													V
													V
		4944	39.52	-34.48	74	53.7	33.4	11.22	58.8	100	0	P	H
		7416	39.26	-34.74	74	48.97	34.42	13.95	58.08	100	0	P	H
802.11n													H
HT20													H
CH 13		4944	40.57	-33.43	74	54.75	33.4	11.22	58.8	100	0	P	V
2472MHz		7416	39.3	-34.7	74	49.01	34.42	13.95	58.08	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. 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	54.55	-19.45	74	50.02	32.19	7.31	34.97	110	308	P	H
		2386.44	46.14	-7.86	54	41.61	32.19	7.31	34.97	110	308	A	H
	*	2457	108.18	34.18	74	103.41	32.4	7.36	34.99	110	308	P	H
	*	2457	99.77	45.77	54	95	32.4	7.36	34.99	110	308	A	H
802.11n		2483.5	59.84	-14.16	74	54.99	32.45	7.4	35	110	308	P	H
HT40		2483.5	51.57	-2.43	54	46.72	32.45	7.4	35	110	308	A	H
CH 10		2382.8	54.49	-19.51	74	50.01	32.14	7.31	34.97	352	144	P	V
2457MHz		2389.52	45.81	-8.19	54	41.28	32.19	7.31	34.97	352	144	A	V
	*	2457	105.14	31.14	74	100.37	32.4	7.36	34.99	352	144	P	V
	*	2457	97.75	43.75	54	92.98	32.4	7.36	34.99	352	144	A	V
		2483.5	59.92	-14.08	74	55.07	32.45	7.4	35	352	144	P	V
		2483.5	52.18	-1.82	54	47.33	32.45	7.4	35	352	144	A	V
		2320.92	54.76	-19.24	74	50.56	31.98	7.18	34.96	108	310	P	H
		2353.68	45.57	-8.43	54	41.21	32.09	7.24	34.97	108	310	A	H
	*	2462	94.19	20.19	74	89.38	32.4	7.4	34.99	108	310	P	H
	*	2462	86.73	32.73	54	81.92	32.4	7.4	34.99	108	310	A	H
802.11n		2483.5	61.9	-12.1	74	57.05	32.45	7.4	35	108	310	P	H
HT40		2483.62	53.39	-0.61	54	48.54	32.45	7.4	35	108	310	A	H
CH 11		2387.7	54.72	-19.28	74	50.19	32.19	7.31	34.97	350	145	P	V
2462MHz		2376.64	45.61	-8.39	54	41.2	32.14	7.24	34.97	350	145	A	V
	*	2462	91.91	17.91	74	87.1	32.4	7.4	34.99	350	145	P	V
	*	2462	84.5	30.5	54	79.69	32.4	7.4	34.99	350	145	A	V
		2483.55	61.97	-12.03	74	57.12	32.45	7.4	35	350	145	P	V
		2483.5	53.34	-0.66	54	48.49	32.45	7.4	35	350	145	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)
		4914	38.89	-35.11	74	52.92	33.47	11.37	58.87	100	0	P	H
		7368	39.2	-34.8	74	48.84	34.51	13.88	58.03	100	0	P	H
802.11n													H
HT40													H
CH 10		4914	38.92	-35.08	74	52.95	33.47	11.37	58.87	100	0	P	V
2457MHz		7368	39.25	-34.75	74	48.89	34.51	13.88	58.03	100	0	P	V
													V
													V
		4926	40.62	-33.38	74	54.65	33.44	11.37	58.84	100	0	P	H
		7386	38.72	-35.28	74	48.36	34.47	13.95	58.06	100	0	P	H
802.11n													H
HT40													H
CH 11		4926	39.64	-34.36	74	53.67	33.44	11.37	58.84	100	0	P	V
2462MHz		7386	38.67	-35.33	74	48.31	34.47	13.95	58.06	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average 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 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)
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".

<MIMO1+2>

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)
		2340.975	54.98	-19.02	74	50.68	32.03	7.24	34.97	249	360	P	H
		2390	45.19	-8.81	54	40.67	32.19	7.31	34.98	249	360	A	H
	*	2412	105.28	-	-	100.71	32.24	7.31	34.98	249	360	P	H
	*	2412	97.69	-	-	93.12	32.24	7.31	34.98	249	360	A	H
802.11n													H
HT20													H
CH 01		2390	54.72	-19.28	74	50.2	32.19	7.31	34.98	216	103	P	V
2412MHz		2390	46.17	-7.83	54	41.65	32.19	7.31	34.98	216	103	A	V
	*	2412	109.49	-	-	104.92	32.24	7.31	34.98	216	103	P	V
	*	2412	101.47	-	-	96.9	32.24	7.31	34.98	216	103	A	V
													V
													V
		2353.96	54.52	-19.48	74	50.16	32.09	7.24	34.97	100	244	P	H
		2385.74	44.69	-9.31	54	40.16	32.19	7.31	34.97	100	244	A	H
	*	2437	107.71	-	-	103	32.34	7.36	34.99	100	244	P	H
	*	2437	100.05	-	-	95.34	32.34	7.36	34.99	100	244	A	H
802.11n		2483.97	55.12	-18.88	74	50.27	32.45	7.4	35	100	244	P	H
HT20		2484.18	45.37	-8.63	54	40.52	32.45	7.4	35	100	244	A	H
CH 06		2321.48	54.9	-19.1	74	50.7	31.98	7.18	34.96	200	270	P	V
2437MHz		2384.2	44.77	-9.23	54	40.29	32.14	7.31	34.97	200	270	A	V
	*	2437	104.56	-	-	99.85	32.34	7.36	34.99	200	270	P	V
	*	2437	96.66	-	-	91.95	32.34	7.36	34.99	200	270	A	V
		2498.88	54.32	-19.68	74	49.43	32.5	7.4	35.01	200	270	P	V
		2483.55	45.25	-8.75	54	40.4	32.45	7.4	35	200	270	A	V

	*	2462	108.47	-	-	103.66	32.4	7.4	34.99	116	242	P	H
	*	2462	100.95	-	-	96.14	32.4	7.4	34.99	116	242	A	H
		2483.56	64.43	-9.57	74	59.58	32.45	7.4	35	116	242	P	H
		2483.52	52.54	-1.46	54	47.69	32.45	7.4	35	116	242	A	H
802.11n													H
HT20													H
CH 11	*	2462	105.28	-	-	100.47	32.4	7.4	34.99	185	270	P	V
2462MHz	*	2462	98	-	-	93.19	32.4	7.4	34.99	185	270	A	V
		2484	61.61	-12.39	74	56.76	32.45	7.4	35	185	270	P	V
		2483.52	49.4	-4.6	54	44.55	32.45	7.4	35	185	270	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	39.54	-34.46	74	53.26	33.64	11.68	59.04	100	0	P	H
													H
802.11n													H
HT20													H
CH 01		4824	39.52	-34.48	74	53.24	33.64	11.68	59.04	100	0	P	V
2412MHz													V
													V
													V
		4872	37.91	-36.09	74	51.78	33.54	11.53	58.94	100	0	P	H
		7308	38.81	-35.19	74	48.24	34.69	13.81	57.93	100	0	P	H
802.11n													H
HT20													H
CH 06		4872	38.53	-35.47	74	52.4	33.54	11.53	58.94	100	0	P	V
2437MHz		7308	39.92	-34.08	74	49.35	34.69	13.81	57.93	100	0	P	V
													V
													V
		4926	39.05	-34.95	74	53.08	33.44	11.37	58.84	100	0	P	H
		7386	39.78	-34.22	74	49.42	34.47	13.95	58.06	100	0	P	H
802.11n													H
HT20													H
CH 11		4926	39.82	-34.18	74	53.85	33.44	11.37	58.84	100	0	P	V
2462MHz		7386	39.36	-34.64	74	49	34.47	13.95	58.06	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)
		2389.94	55.2	-18.8	74	50.68	32.19	7.31	34.98	266	2	P	H
		2389.94	46.82	-7.18	54	42.3	32.19	7.31	34.98	266	2	A	H
	*	2422	103.85	-	-	99.19	32.29	7.36	34.99	266	2	P	H
	*	2422	95.89	-	-	91.23	32.29	7.36	34.99	266	2	A	H
802.11n		2487.4	55.2	-18.8	74	50.35	32.45	7.4	35	266	2	P	H
HT40		2486.42	45.88	-8.12	54	41.03	32.45	7.4	35	266	2	A	H
CH 03		2389.52	57.75	-16.25	74	53.22	32.19	7.31	34.97	209	108	P	V
2422MHz		2389.94	49.08	-4.92	54	44.56	32.19	7.31	34.98	209	108	A	V
	*	2422	105.83	-	-	101.17	32.29	7.36	34.99	209	108	P	V
	*	2422	98.49	-	-	93.83	32.29	7.36	34.99	209	108	A	V
		2496.22	55.13	-18.87	74	50.24	32.5	7.4	35.01	209	108	P	V
		2493.14	46.2	-7.8	54	41.31	32.5	7.4	35.01	209	108	A	V
		2337.16	55.08	-18.92	74	50.83	32.03	7.18	34.96	100	245	P	H
		2389.94	45.79	-8.21	54	41.27	32.19	7.31	34.98	100	245	A	H
	*	2437	105.97	-	-	101.26	32.34	7.36	34.99	100	245	P	H
	*	2437	98.15	-	-	93.44	32.34	7.36	34.99	100	245	A	H
802.11n		2485.72	55.89	-18.11	74	51.04	32.45	7.4	35	100	245	P	H
HT40		2484.46	46.59	-7.41	54	41.74	32.45	7.4	35	100	245	A	H
CH 06		2382.52	54.65	-19.35	74	50.17	32.14	7.31	34.97	192	146	P	V
2437MHz		2389.1	45.67	-8.33	54	41.14	32.19	7.31	34.97	192	146	A	V
	*	2437	103.25	-	-	98.54	32.34	7.36	34.99	192	146	P	V
	*	2437	95.41	-	-	90.7	32.34	7.36	34.99	192	146	A	V
		2485.16	54.84	-19.16	74	49.99	32.45	7.4	35	192	146	P	V
		2487.89	45.96	-8.04	54	41.06	32.5	7.4	35	192	146	A	V

802.11n HT40 CH 09 2452MHz		2363.76	54.88	-19.12	74	50.52	32.09	7.24	34.97	100	241	P	H
		2380.28	45.89	-8.11	54	41.41	32.14	7.31	34.97	100	241	A	H
	*	2452	103.86	-	-	99.15	32.34	7.36	34.99	100	241	P	H
	*	2452	95.91	-	-	91.2	32.34	7.36	34.99	100	241	A	H
		2483.52	64.42	-9.58	74	59.57	32.45	7.4	35	100	241	P	H
		2483.69	52.85	-1.15	54	48	32.45	7.4	35	100	241	P	H
		2370.76	54.48	-19.52	74	50.07	32.14	7.24	34.97	100	267	P	V
		2386.72	45.59	-8.41	54	41.06	32.19	7.31	34.97	100	267	A	V
	*	2452	99.79	-	-	95.08	32.34	7.36	34.99	100	267	P	V
	*	2452	92.28	-	-	87.57	32.34	7.36	34.99	100	267	A	V
		2483.69	61.66	-12.34	74	56.81	32.45	7.4	35	100	267	P	V
		2483.76	52.37	-1.63	54	47.52	32.45	7.4	35	100	267	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)
		4842	39.96	-34.04	74	53.68	33.61	11.68	59.01	100	0	P	H
		7266	38.55	-35.45	74	47.91	34.78	13.75	57.89	100	0	P	H
802.11n													H
HT40													H
CH 03		4842	38.44	-35.56	74	52.16	33.61	11.68	59.01	100	0	P	V
2422MHz		7266	38.61	-35.39	74	47.97	34.78	13.75	57.89	100	0	P	V
													V
													V
		4872	38.28	-35.72	74	52.15	33.54	11.53	58.94	100	0	P	H
		7308	39.69	-34.31	74	49.12	34.69	13.81	57.93	100	0	P	H
802.11n													H
HT40													H
CH 06		4872	38.78	-35.22	74	52.65	33.54	11.53	58.94	100	0	P	V
2437MHz		7308	38.89	-35.11	74	48.32	34.69	13.81	57.93	100	0	P	V
													V
													V
		4902	38.54	-35.46	74	52.57	33.47	11.37	58.87	100	0	P	H
		7356	38.89	-35.11	74	48.46	34.56	13.88	58.01	100	0	P	H
802.11n													H
HT40													H
CH 09		4902	38.53	-35.47	74	52.56	33.47	11.37	58.87	100	0	P	V
2452MHz		7356	38.73	-35.27	74	48.3	34.56	13.88	58.01	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. 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)
2.4GHz 802.11n HT40 LF		30	27.77	-12.23	40	32.05	26	1.07	31.35	100	0	P	H
		81.3	25.45	-14.55	40	41.7	14.02	1.28	31.55	-	-	P	H
		282.18	27.5	-18.5	46	37.11	19.38	2.32	31.31	-	-	P	H
		332.2	27.62	-18.38	46	35.73	20.72	2.41	31.24	-	-	P	H
		634.6	28.33	-17.67	46	29.81	25.74	3.57	30.79	-	-	P	H
		938.4	33.25	-12.75	46	29.74	29.92	4.12	30.53	-	-	P	H
													H
													H
													H
													H
													H
													H
		35.67	33.31	-6.69	40	40.95	22.72	1.07	31.43	100	80	P	V
		63.48	28.15	-11.85	40	46.17	12.28	1.28	31.58	-	-	P	V
		110.19	26.3	-17.2	43.5	38.92	17.35	1.55	31.52	-	-	P	V
		421.1	24.8	-21.2	46	30.35	22.7	2.89	31.14	-	-	P	V
		716.5	30.04	-15.96	46	30.33	26.67	3.74	30.7	-	-	P	V
		940.5	33.05	-12.95	46	29.52	29.99	4.07	30.53	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	2467	108.47	34.47	74	103.67	32.4	7.4	35	100	309	P	H
	*	2467	100.73	46.73	54	95.93	32.4	7.4	35	100	309	A	H
		2483.64	63.42	-10.58	74	58.57	32.45	7.4	35	100	309	P	H
		2483.52	50.22	-3.78	54	45.37	32.45	7.4	35	100	309	A	H
802.11n													H
HT20													H
CH 12	*	2467	105.27	31.27	74	100.47	32.4	7.4	35	350	148	P	V
2467MHz	*	2467	98.19	44.19	54	93.39	32.4	7.4	35	350	148	A	V
		2483.56	61.06	-12.94	74	56.21	32.45	7.4	35	350	148	P	V
		2483.52	50.82	-3.18	54	45.97	32.45	7.4	35	350	148	A	V
													V
													V
	*	2472	97.78	23.78	74	92.93	32.45	7.4	35	100	308	P	H
	*	2472	85.69	31.69	54	80.84	32.45	7.4	35	100	308	A	H
		2483.64	66.44	-7.56	74	61.59	32.45	7.4	35	100	308	P	H
		2483.52	53.29	-0.71	54	48.44	32.45	7.4	35	100	308	A	H
802.11n													H
HT20													H
CH 13	*	2472	91.49	17.49	74	86.64	32.45	7.4	35	356	148	P	V
2472MHz	*	2472	84.17	30.17	54	79.32	32.45	7.4	35	356	148	A	V
		2483.72	63.9	-10.1	74	59.05	32.45	7.4	35	356	148	P	V
		2483.6	52.94	-1.06	54	48.09	32.45	7.4	35	356	148	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)
		4932	41.57	-32.43	74	55.6	33.44	11.37	58.84	100	0	P	H
		7404	39.34	-34.66	74	49.05	34.42	13.95	58.08	100	0	P	H
802.11n													H
HT20													H
CH 12		4932	41.41	-32.59	74	55.44	33.44	11.37	58.84	100	0	P	V
2467MHz		7404	38.91	-35.09	74	48.62	34.42	13.95	58.08	100	0	P	V
													V
													V
		4944	40	-34	74	54.18	33.4	11.22	58.8	100	0	P	H
		7416	39.29	-34.71	74	49	34.42	13.95	58.08	100	0	P	H
802.11n													H
HT20													H
CH 13		4944	39.31	-34.69	74	53.49	33.4	11.22	58.8	100	0	P	V
2472MHz		7416	39.34	-34.66	74	49.05	34.42	13.95	58.08	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)
		2367.12	54.97	-19.03	74	50.61	32.09	7.24	34.97	100	80	P	H
		2387.84	45.79	-8.21	54	41.26	32.19	7.31	34.97	100	80	A	H
	*	2457	102.46	28.46	74	97.69	32.4	7.36	34.99	100	80	P	H
	*	2457	94.89	40.89	54	90.12	32.4	7.36	34.99	100	80	A	H
802.11n		2483.62	56.71	-17.29	74	51.86	32.45	7.4	35	100	80	P	H
HT40		2483.62	48.49	-5.51	54	43.64	32.45	7.4	35	100	80	A	H
CH 10		2358.86	55.34	-18.66	74	50.98	32.09	7.24	34.97	355	229	P	V
2457MHz		2362.36	45.62	-8.38	54	41.26	32.09	7.24	34.97	355	229	A	V
	*	2457	102.72	28.72	74	97.95	32.4	7.36	34.99	355	229	P	V
	*	2457	94.77	40.77	54	90	32.4	7.36	34.99	355	229	A	V
		2483.55	57.43	-16.57	74	52.58	32.45	7.4	35	355	229	P	V
		2483.52	49.46	-4.54	54	44.61	32.45	7.4	35	355	229	A	V
		2378.32	54.56	-19.44	74	50.15	32.14	7.24	34.97	100	80	P	H
		2375.38	45.59	-8.41	54	41.18	32.14	7.24	34.97	100	80	A	H
	*	2462	94.19	20.19	74	89.38	32.4	7.4	34.99	100	80	P	H
	*	2462	86.18	32.18	54	81.37	32.4	7.4	34.99	100	80	A	H
802.11n		2484.18	61.08	-12.92	74	56.23	32.45	7.4	35	100	80	P	H
HT40		2483.55	53.42	-0.58	54	48.57	32.45	7.4	35	100	80	A	H
CH 11		2320.08	54.72	-19.28	74	50.52	31.98	7.18	34.96	358	226	P	V
2462MHz		2372.58	45.57	-8.43	54	41.16	32.14	7.24	34.97	358	226	A	V
	*	2462	96.67	22.67	74	91.86	32.4	7.4	34.99	358	226	P	V
	*	2462	85.63	31.63	54	80.82	32.4	7.4	34.99	358	226	A	V
		2483.62	61.79	-12.21	74	56.94	32.45	7.4	35	358	226	P	V
		2483.52	53.1	-0.9	54	48.25	32.45	7.4	35	358	226	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)
		4914	38.41	-35.59	74	52.44	33.47	11.37	58.87	100	0	P	H
		7368	39.34	-34.66	74	48.98	34.51	13.88	58.03	100	0	P	H
802.11n													H
HT40													H
CH 10		4914	38.96	-35.04	74	52.99	33.47	11.37	58.87	100	0	P	V
2457MHz		7371	38.93	-35.07	74	48.57	34.51	13.88	58.03	100	0	P	V
													V
													V
		4926	40.33	-33.67	74	54.36	33.44	11.37	58.84	100	0	P	H
		7386	39.14	-34.86	74	48.78	34.47	13.95	58.06	100	0	P	H
802.11n													H
HT40													H
CH 11		4926	39.22	-34.78	74	53.25	33.44	11.37	58.84	100	0	P	V
2462MHz		7386	38.67	-35.33	74	48.31	34.47	13.95	58.06	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average 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 Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		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 :	Ken Wu, Jesse Wang, and James Chiu	**Temperature :**	21~24°C
		Relative Humidity :	50~54%

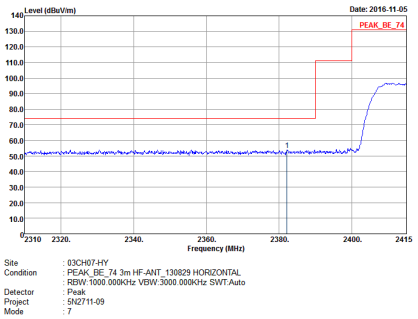
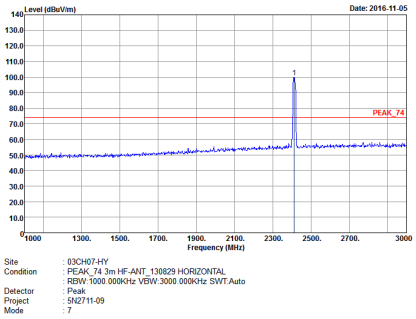
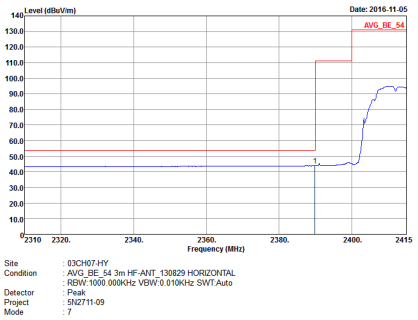
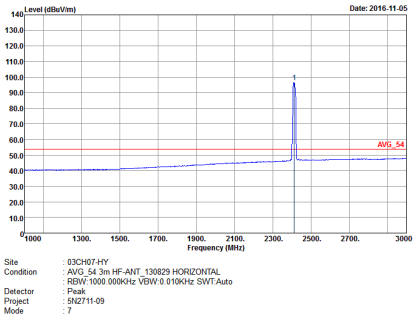
<Ant.1>

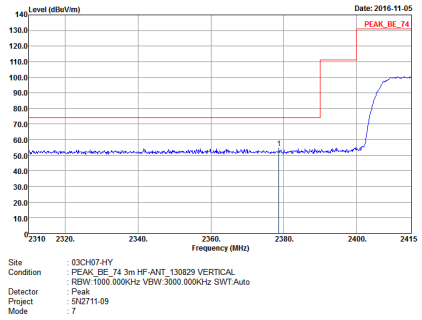
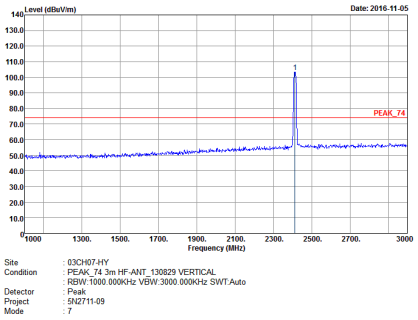
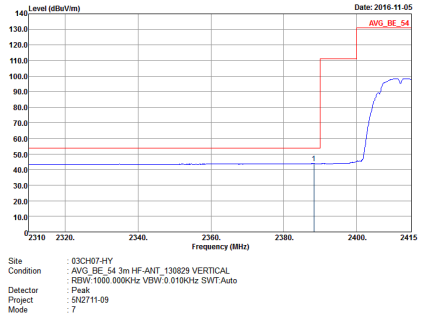
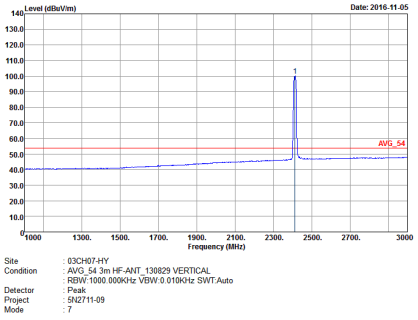
Note symbol

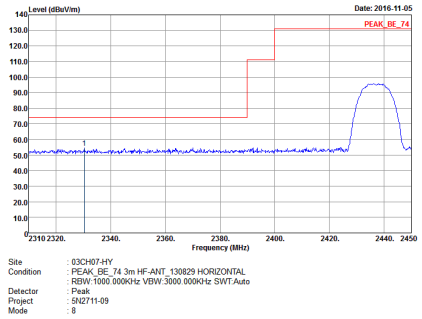
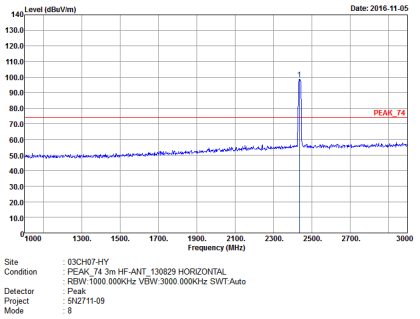
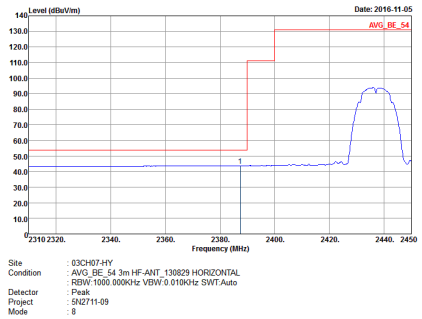
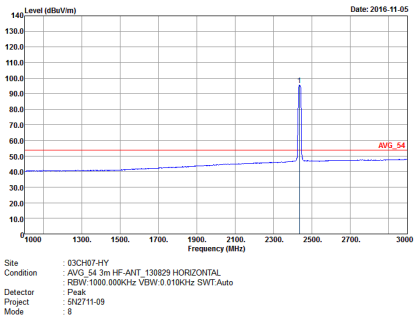
-L	**Low channel location**
-R	**High channel location**

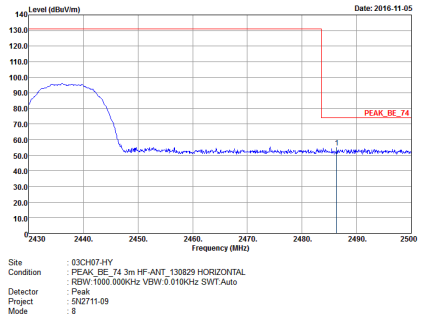
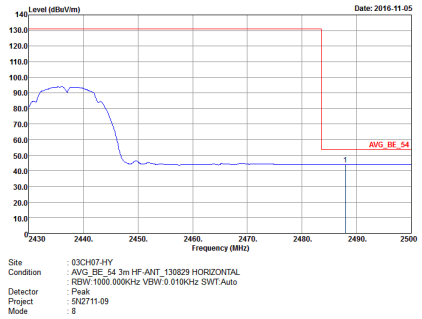
2.4GHz 2400~2483.5MHz

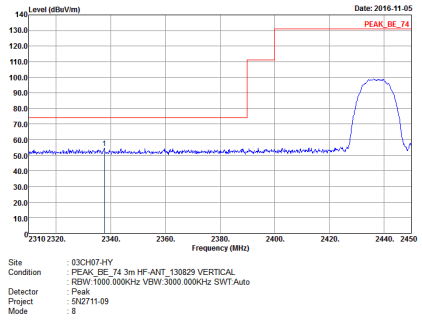
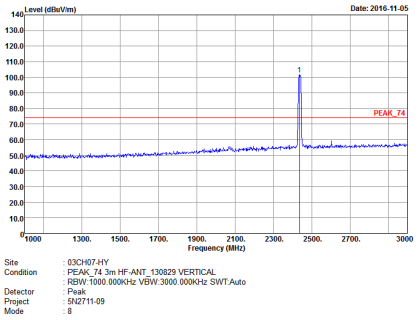
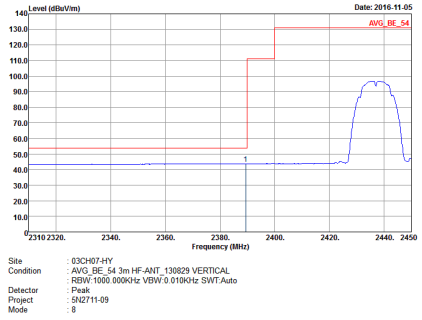
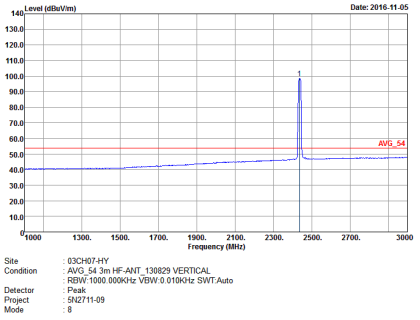
WIFI 802.11b (Band Edge @ 3m)

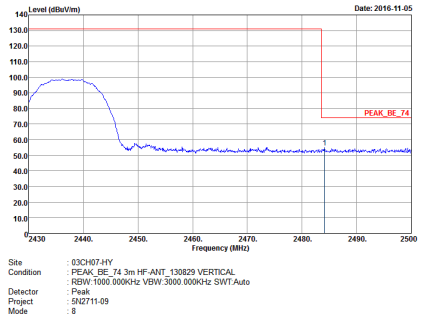
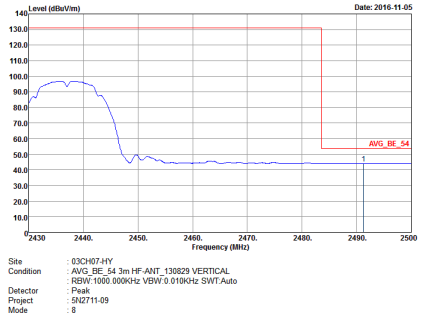
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

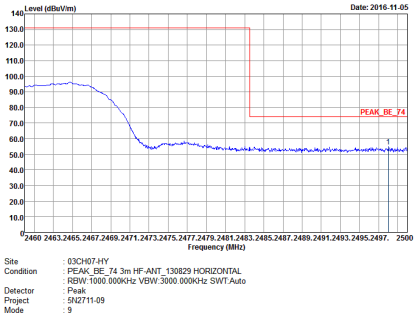
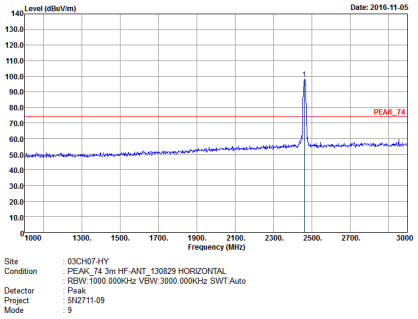
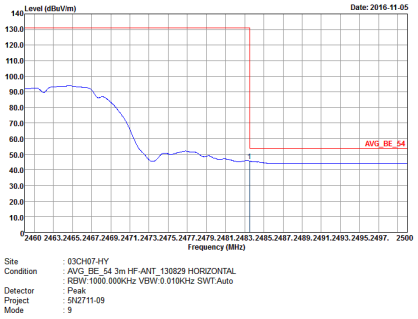
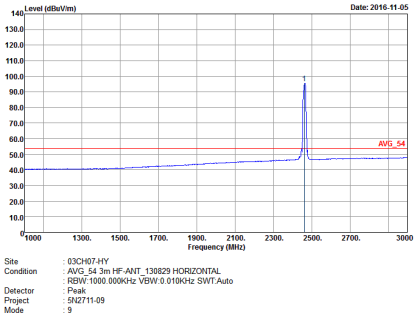
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak		
Avg.		

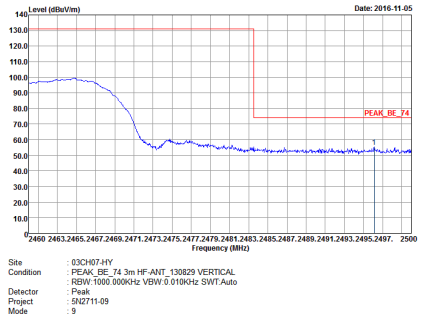
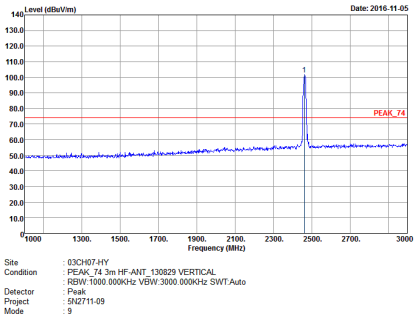
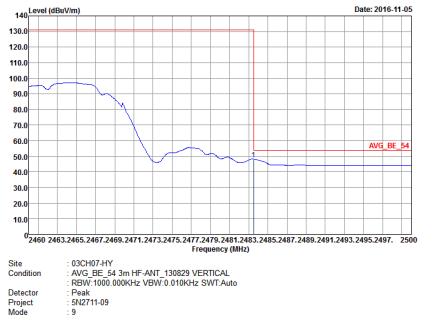
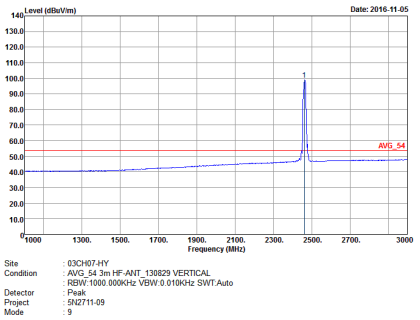
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		

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

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

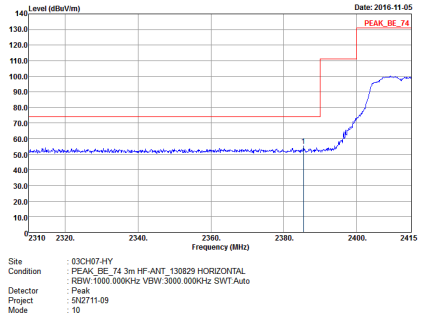
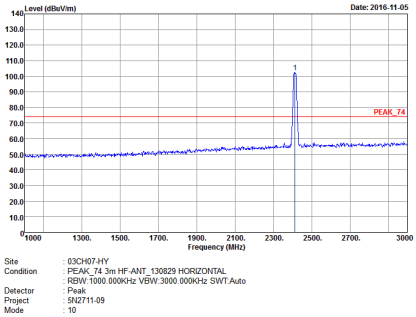
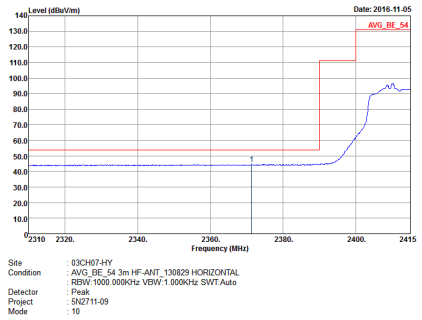
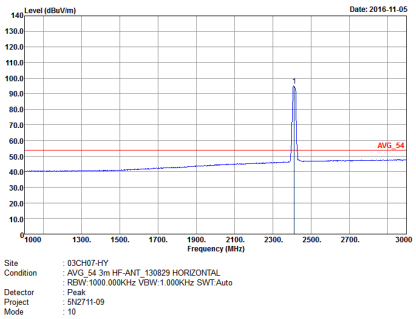
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

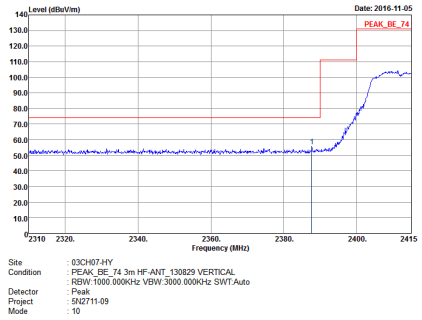
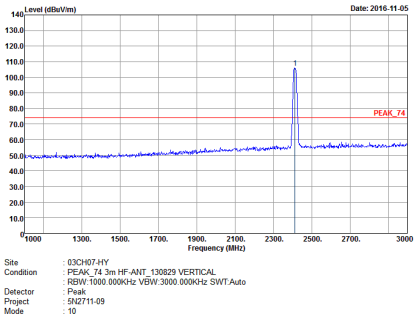
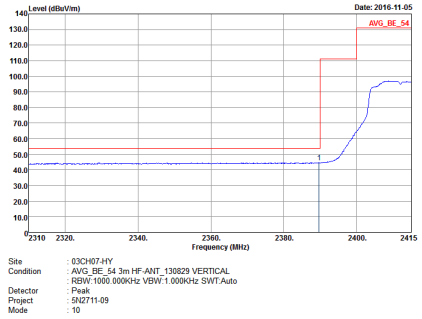
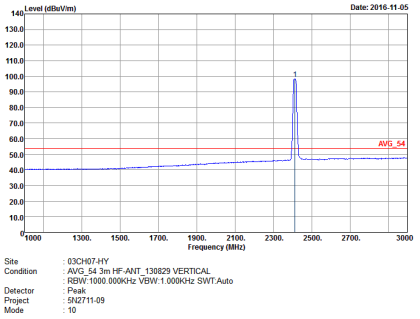
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

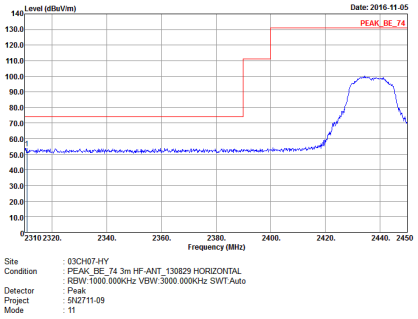
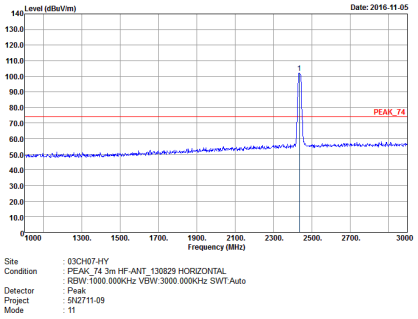
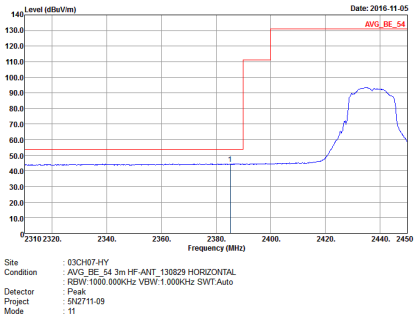
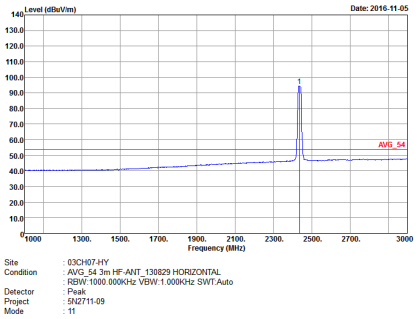
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak		
Avg.		

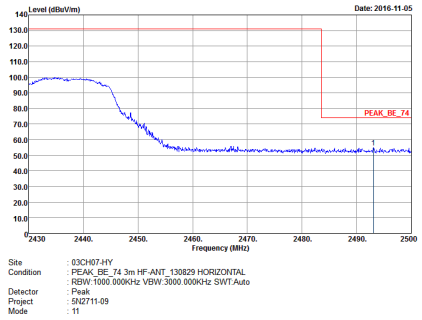
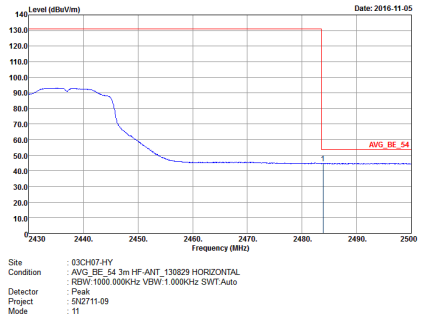
2.4GHz 2400~2483.5MHz

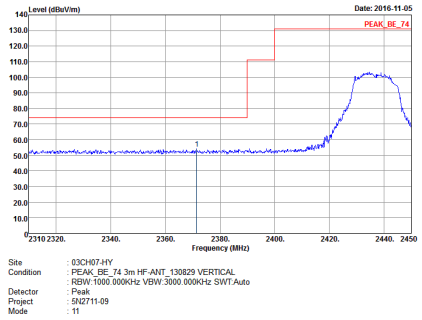
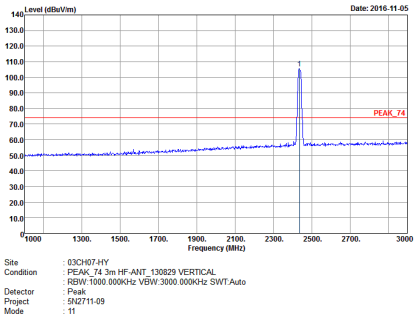
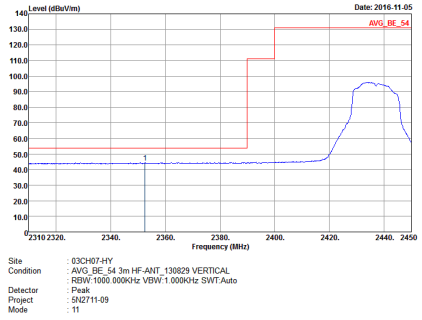
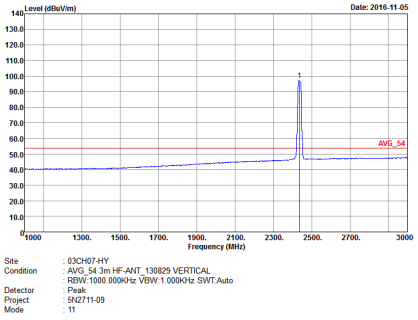
WIFI 802.11g (Band Edge @ 3m)

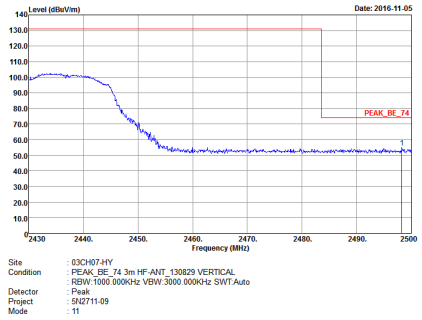
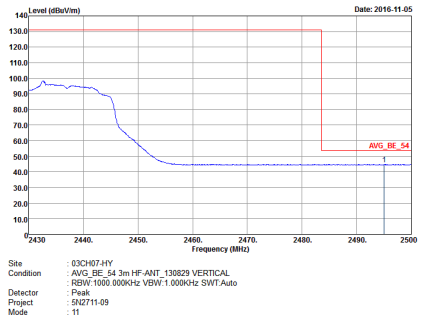
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

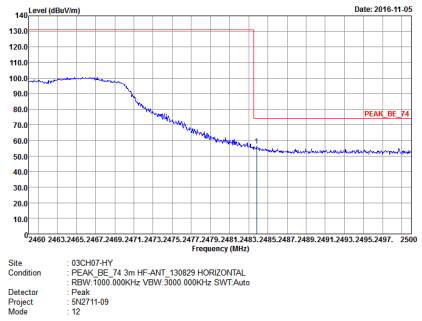
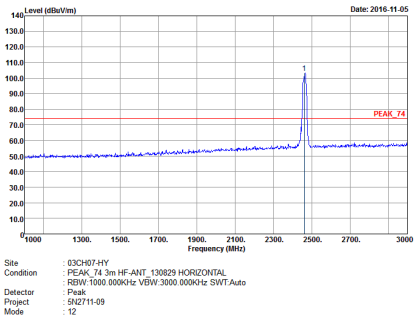
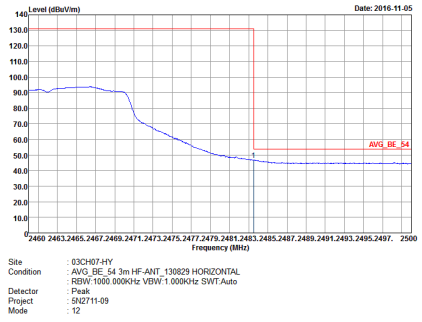
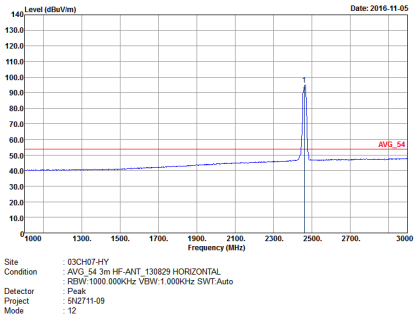
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak		
Avg.		

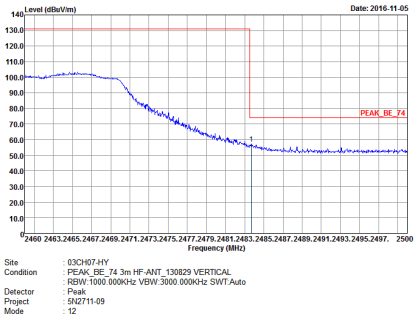
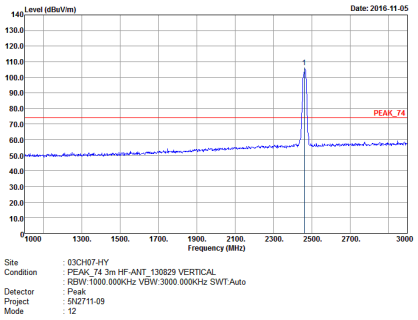
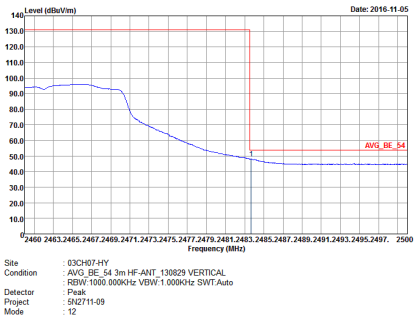
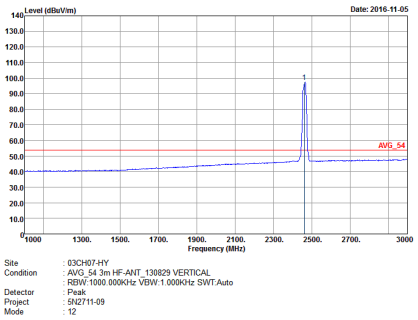
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		

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

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 11	 Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 11
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 11	 Site : 03CH07-HY Condition : AVG_54 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 11

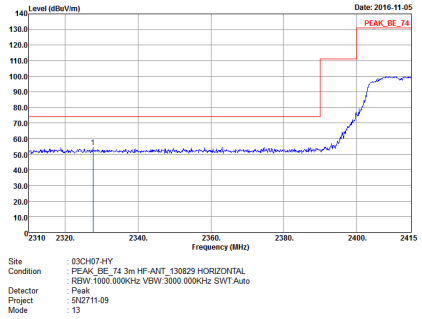
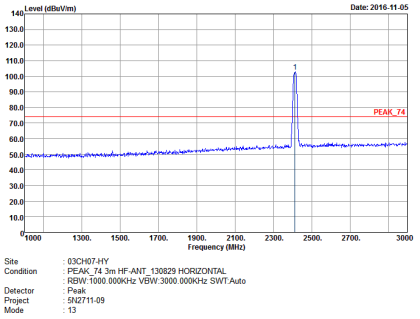
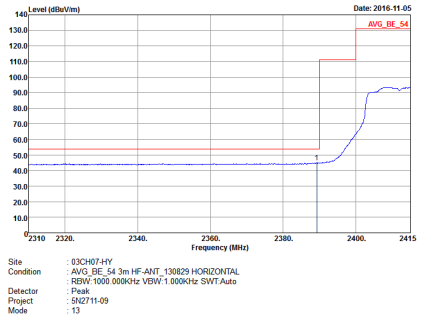
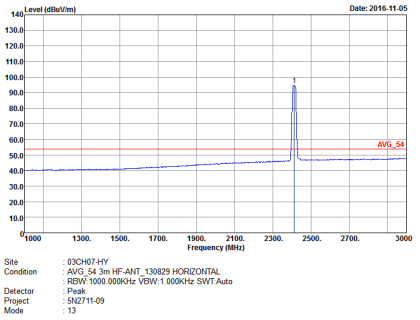
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

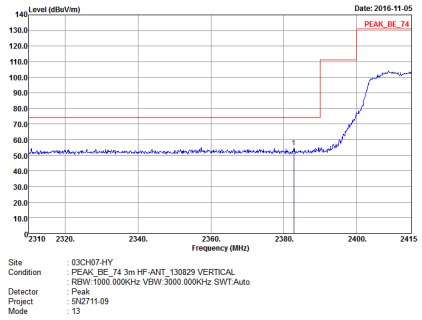
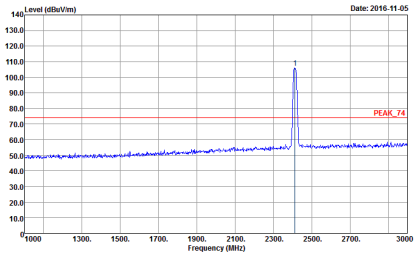
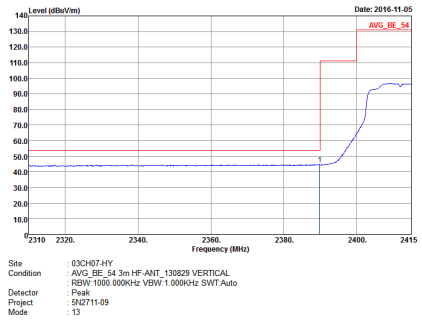
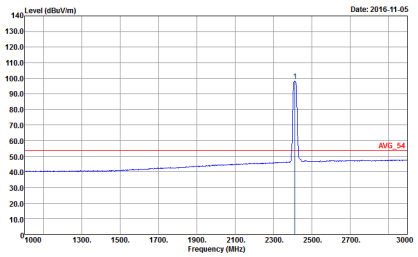
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

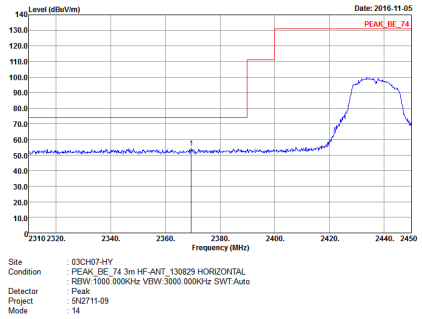
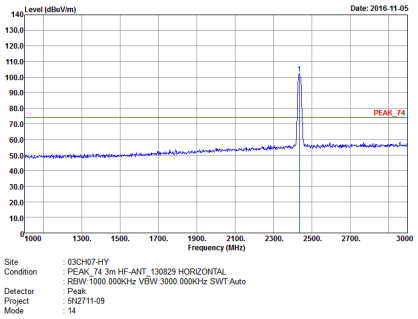
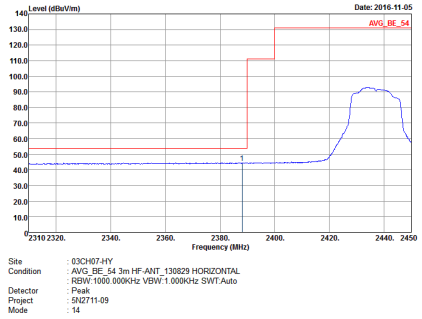
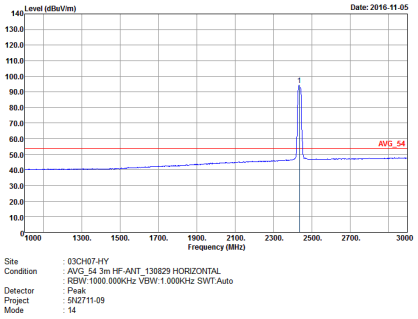
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak		
Avg.		

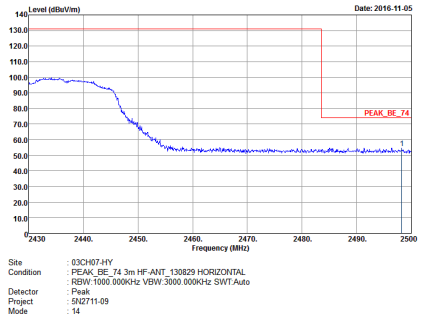
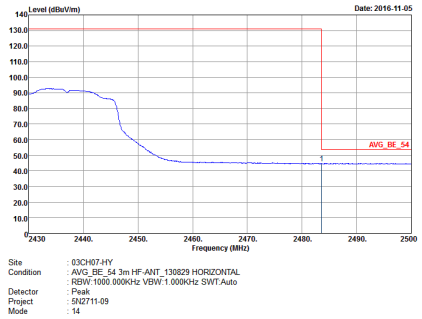
2.4GHz 2400~2483.5MHz

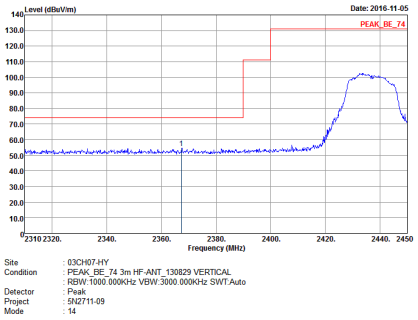
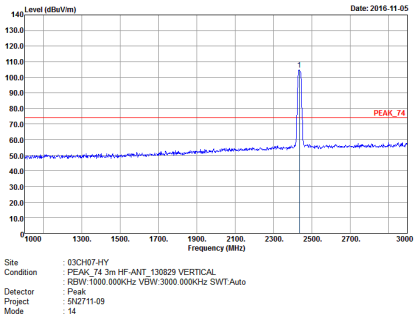
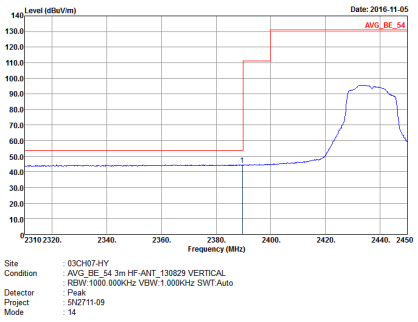
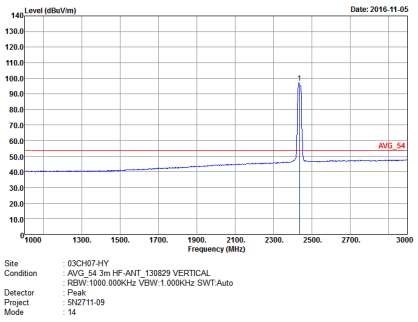
WIFI 802.11n HT20 (Band Edge @ 3m)

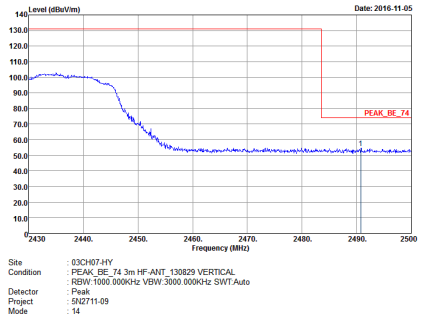
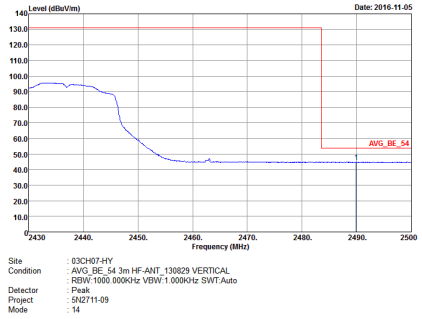
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

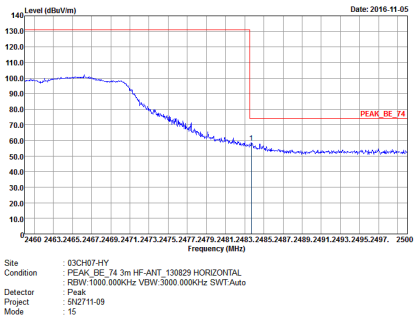
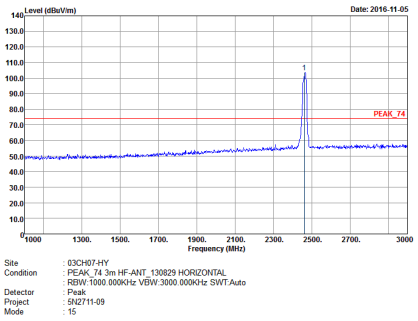
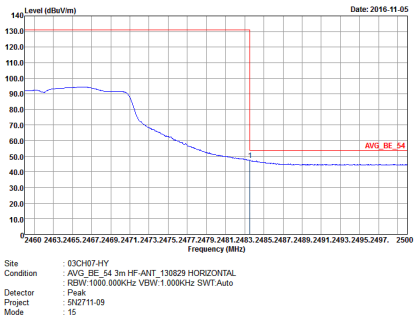
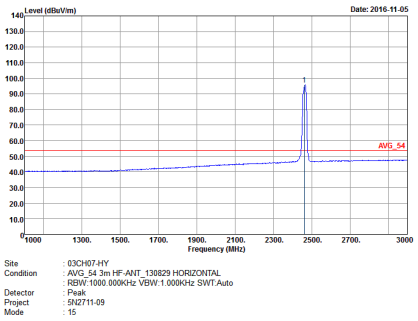
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 13	 Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 13
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 13	 Site : 03CH07-HY Condition : AVG_54 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 13

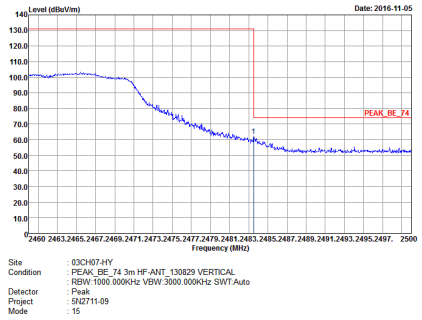
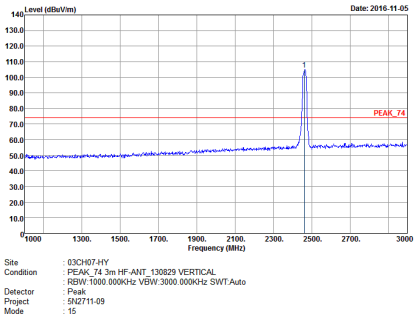
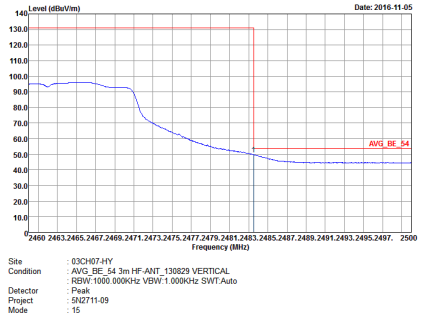
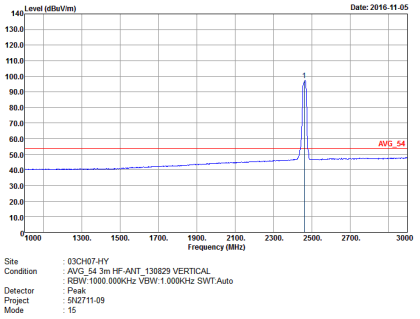
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		

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

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

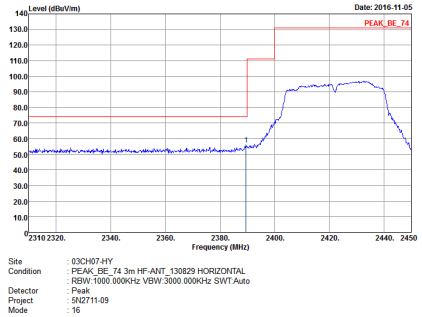
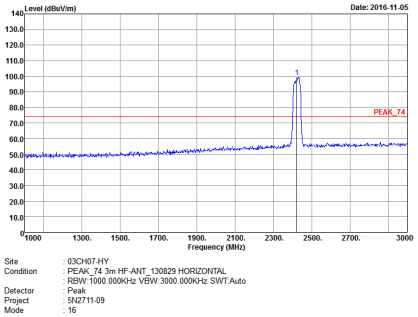
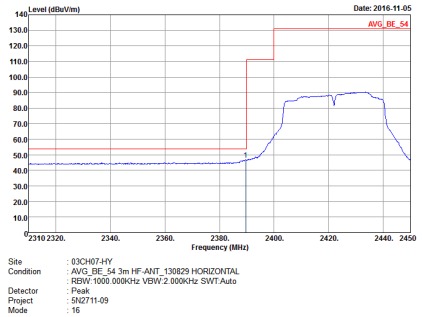
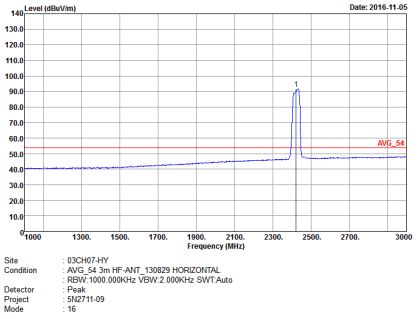
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

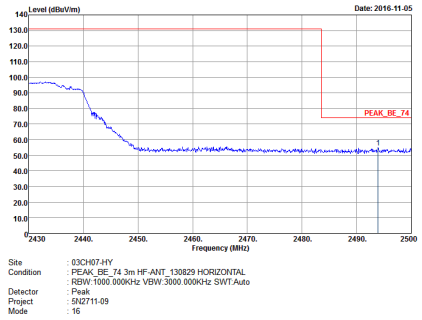
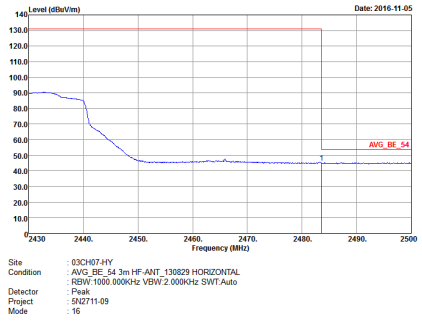
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

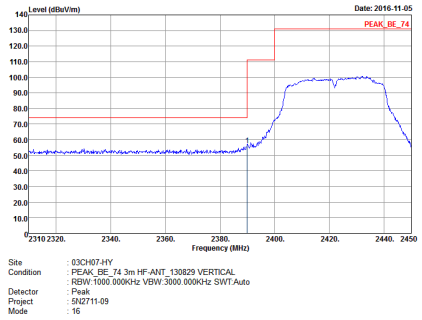
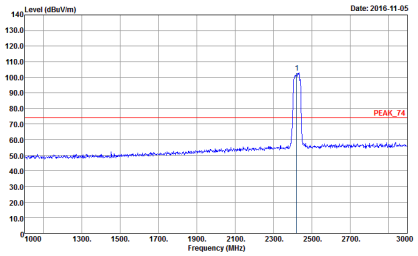
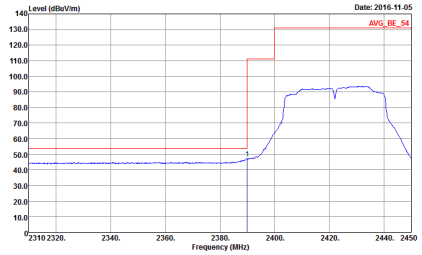
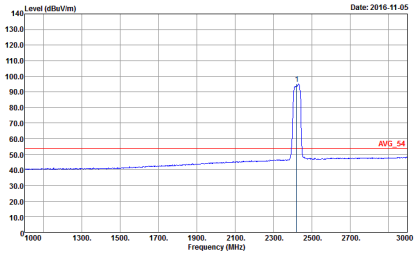
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak		
Avg.		

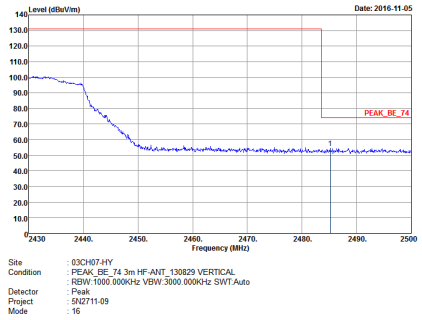
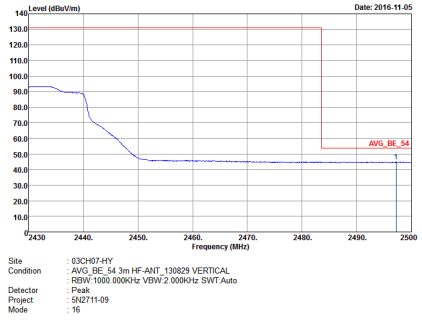
2.4GHz 2400~2483.5MHz

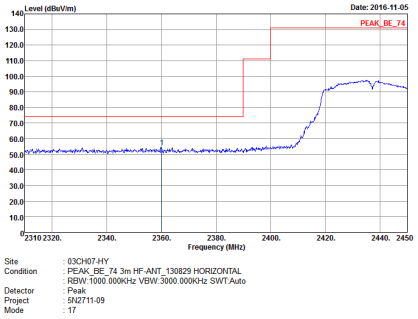
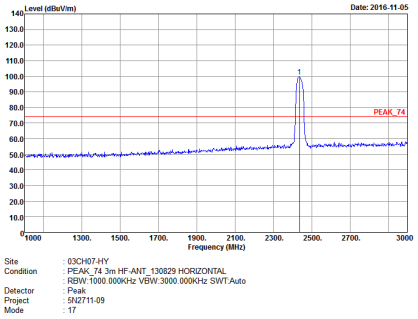
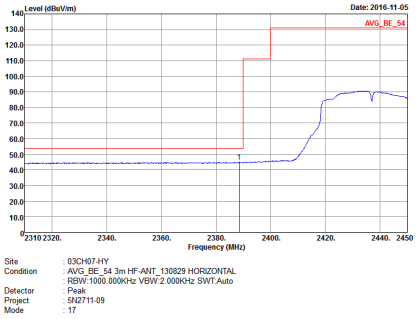
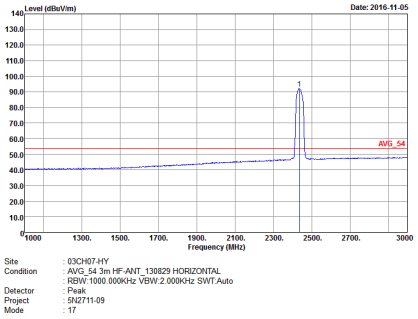
WIFI 802.11n HT40 (Band Edge @ 3m)

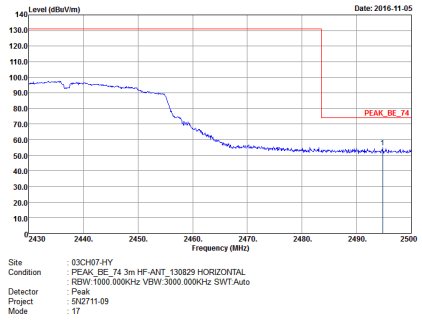
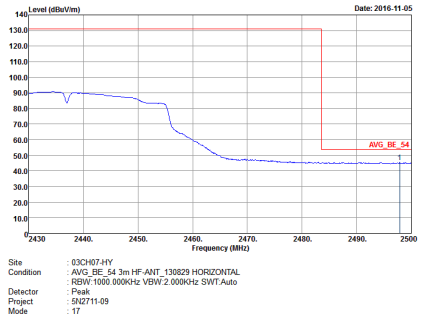
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		

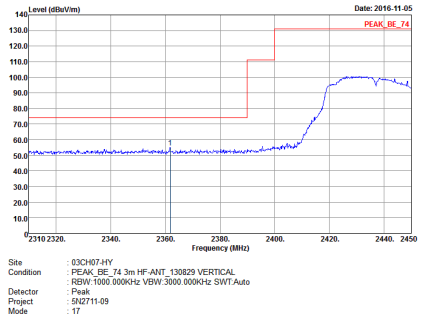
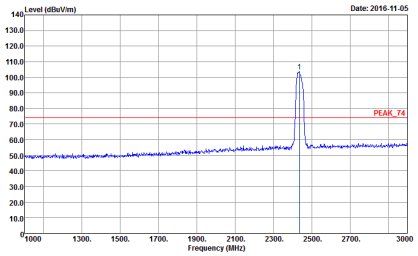
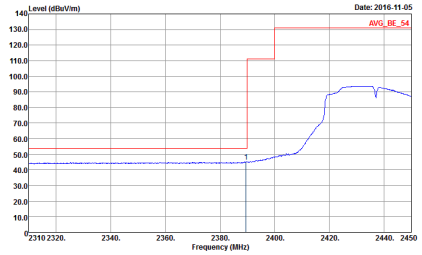
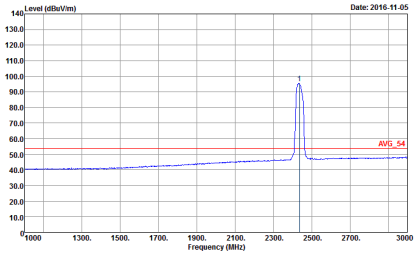
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
Peak		Left Blank
Avg.		Left Blank

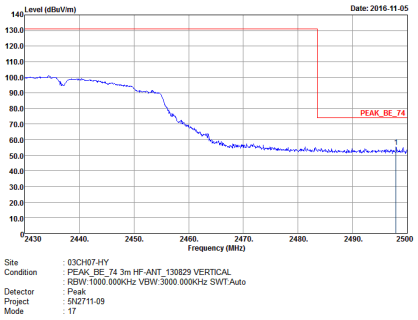
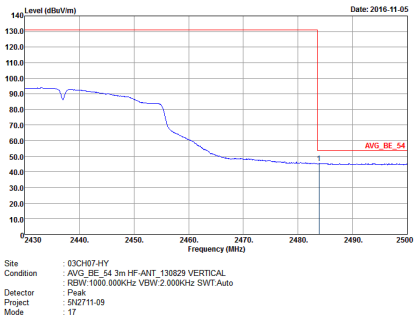
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 16	 Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 16
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:2.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 16	 Site : 03CH07-HY Condition : AVG_54 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:2.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 16

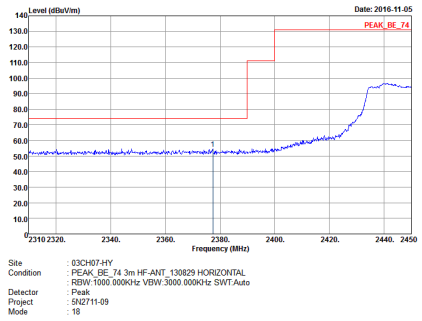
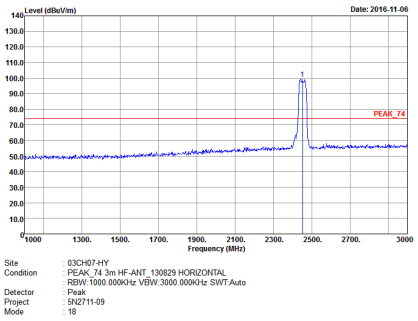
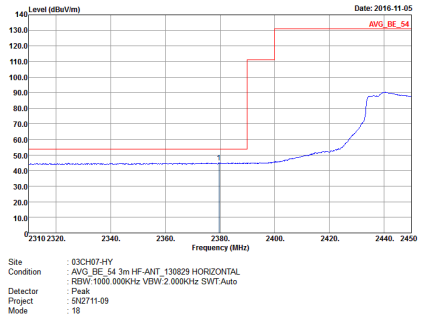
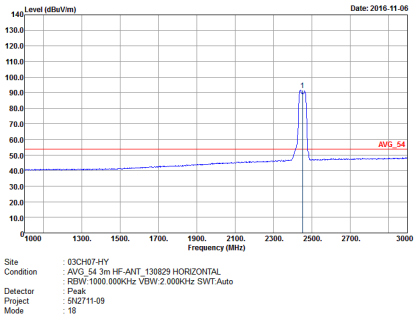
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

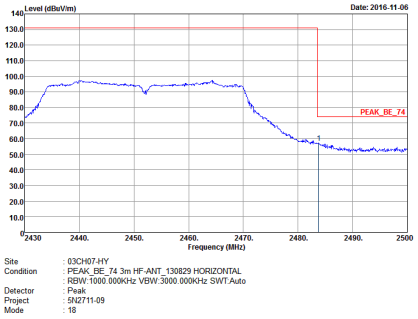
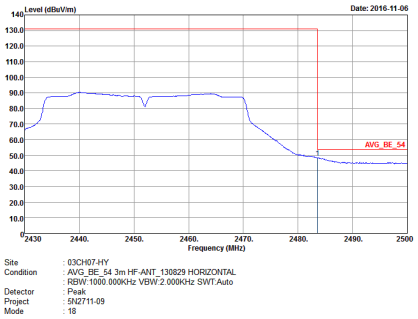
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		

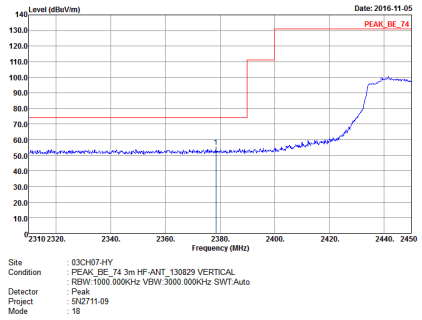
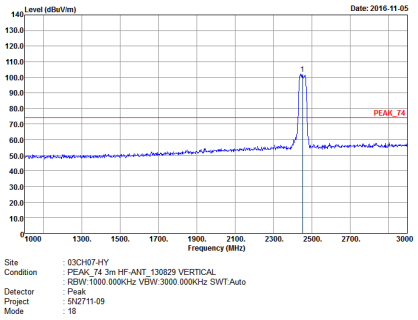
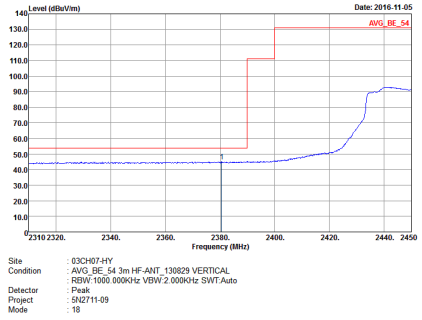
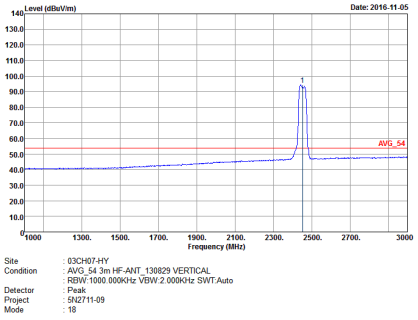
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

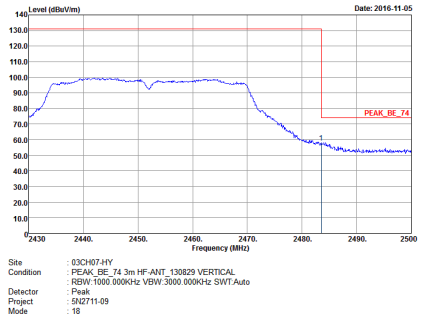
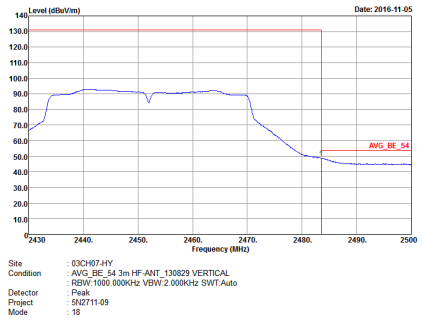
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 17	 Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 17
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:2.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 17	 Site : 03CH07-HY Condition : AVG_54 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:2.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 17

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

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

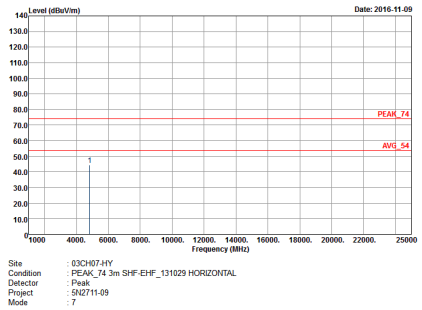
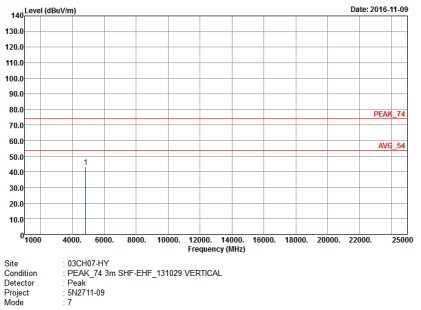
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

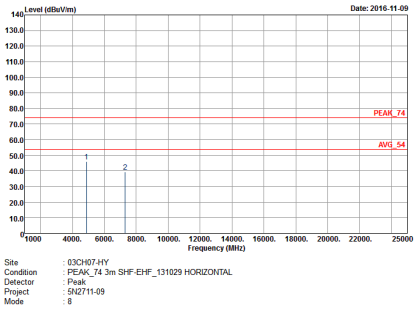
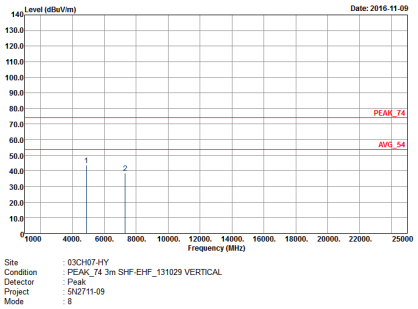
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 18	 Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 18
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:2.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 18	 Site : 03CH07-HY Condition : AVG_54 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:2.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 18

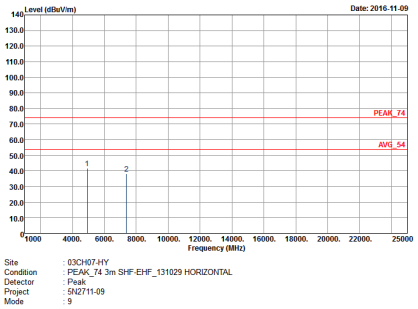
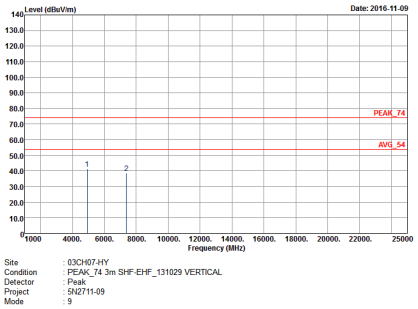
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

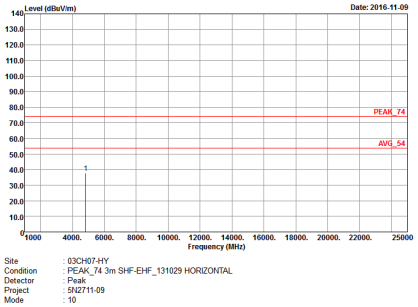
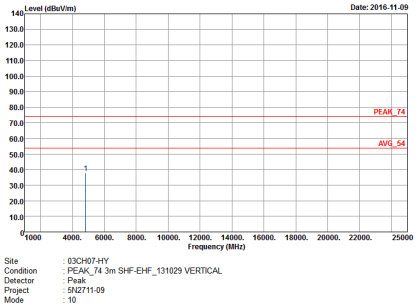
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

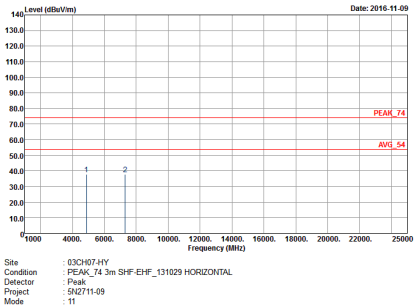
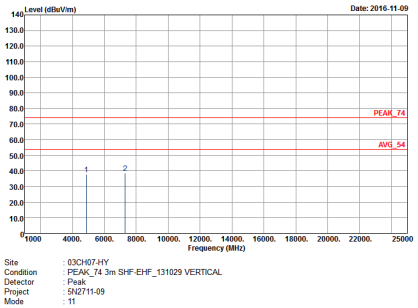
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.		

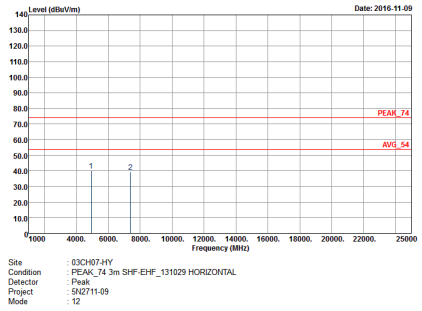
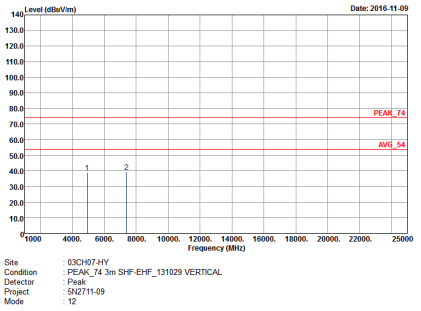
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.		

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

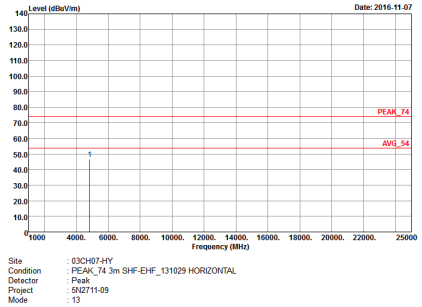
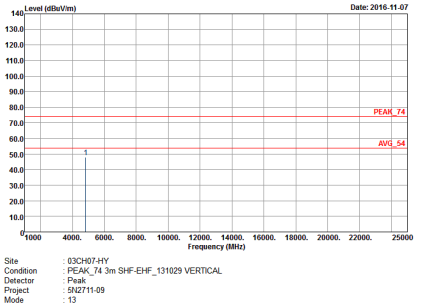
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

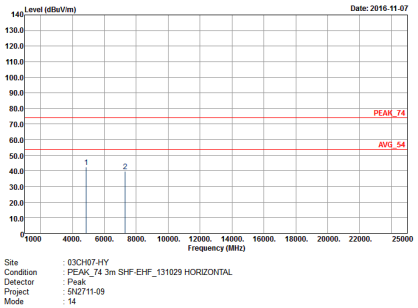
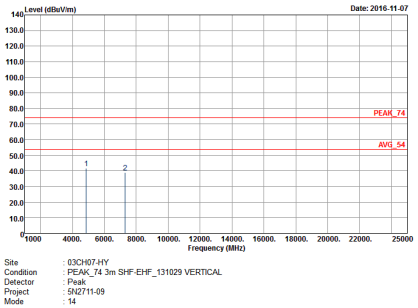
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.		

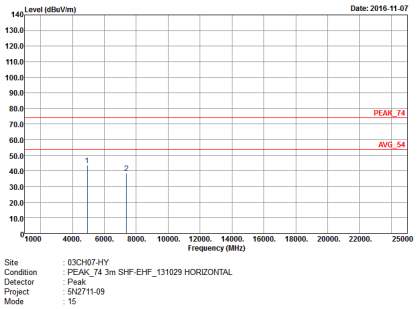
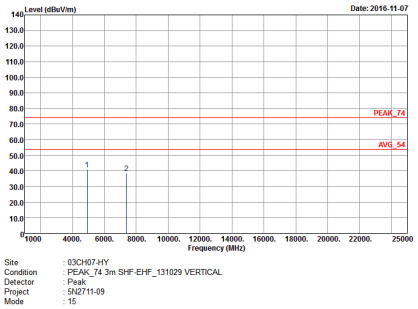
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.		

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

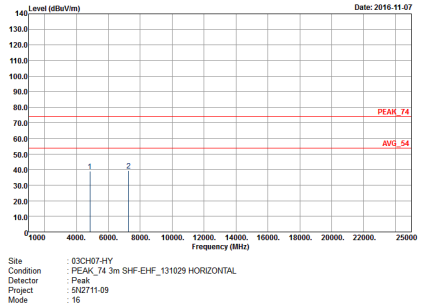
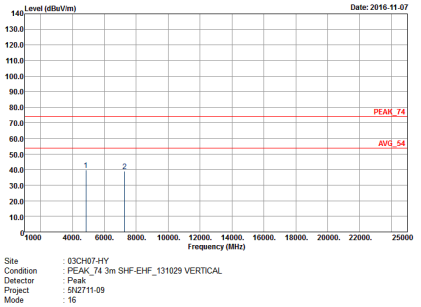
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

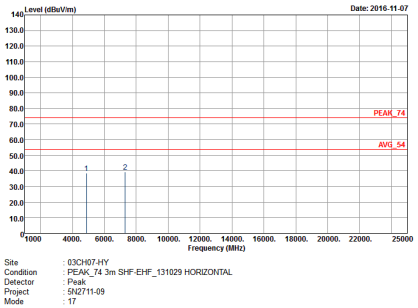
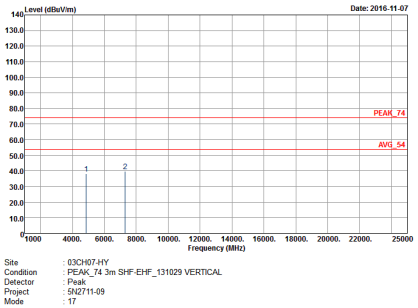
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.		

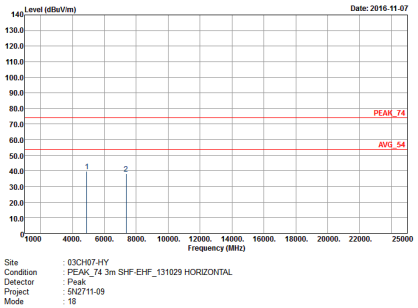
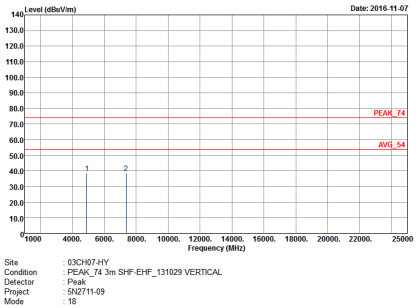
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.		

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

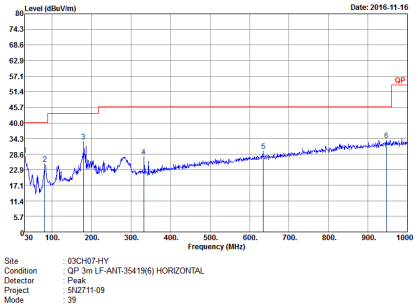
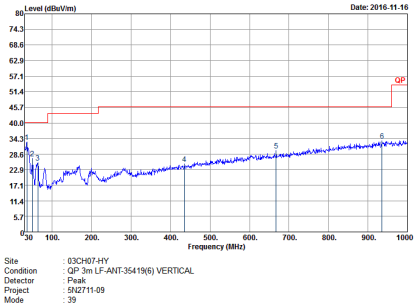
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1	Horizontal	Vertical
Peak Avg.		

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.		

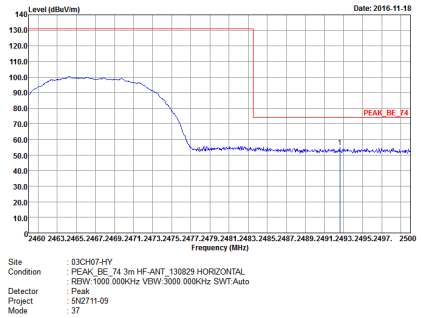
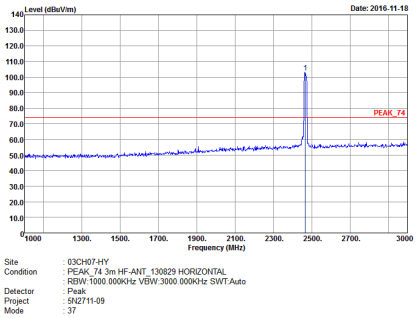
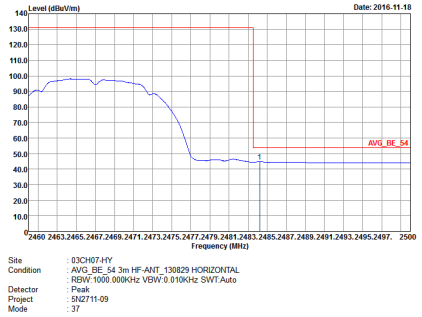
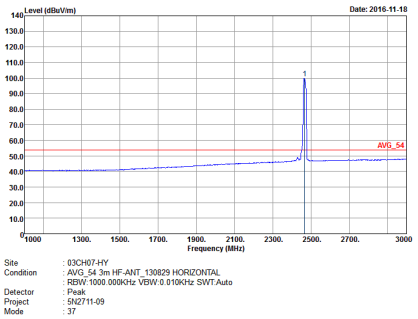
Emission below 1GHz

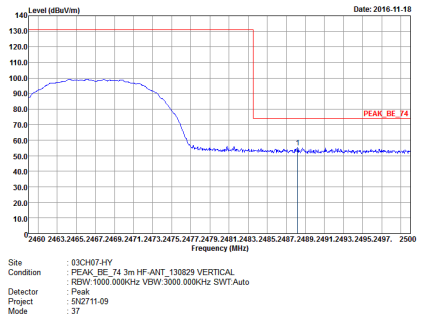
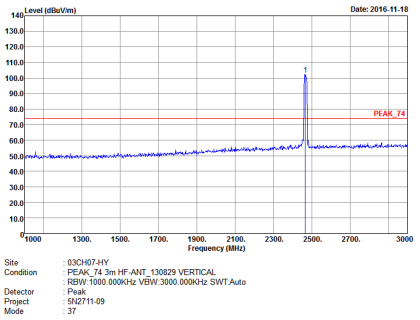
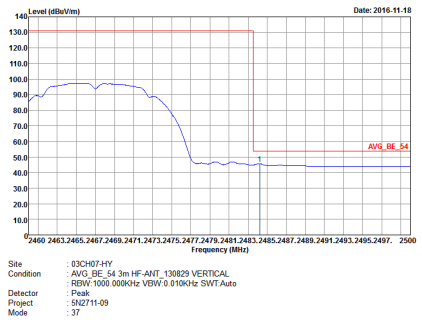
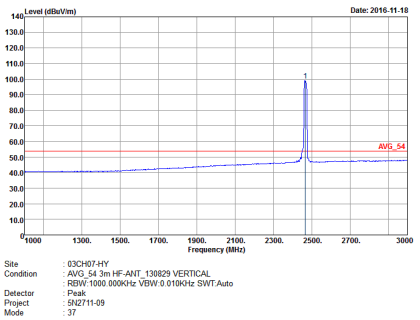
2.4GHz WIFI 802.11n HT20 (LF)

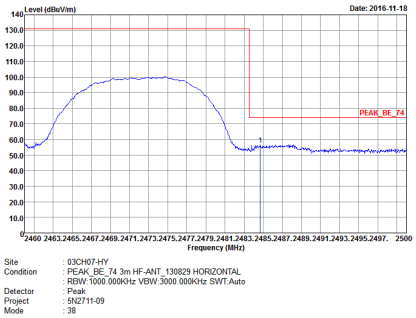
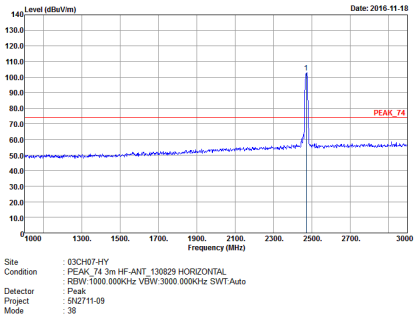
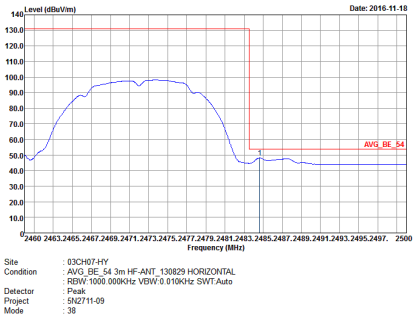
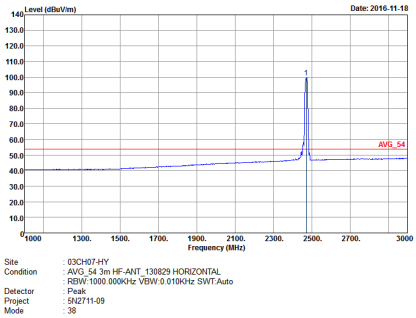
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT20 LF	
1	Horizontal	Vertical
QP / Peak		

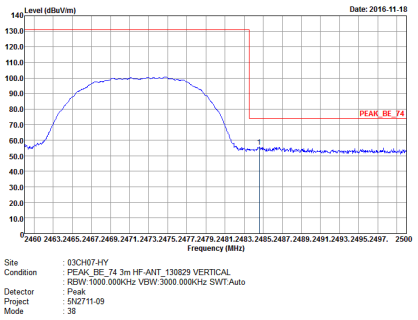
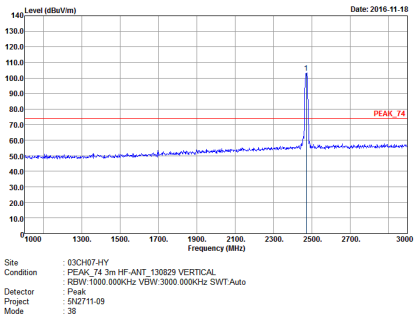
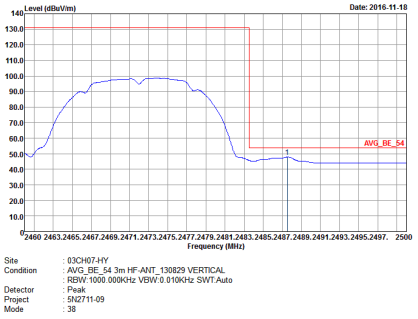
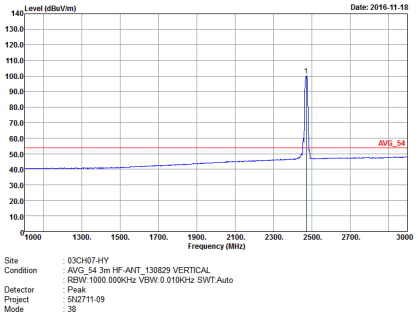
2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

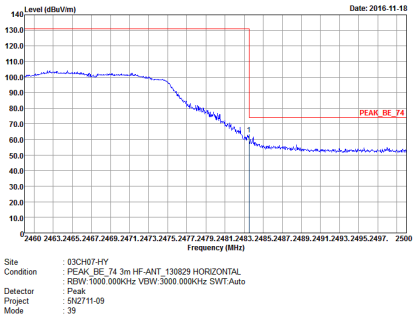
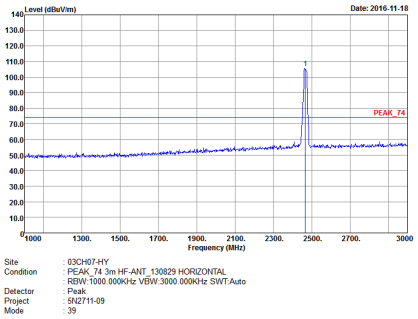
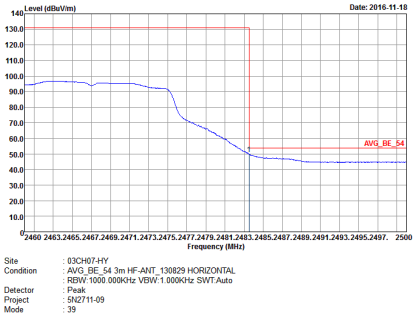
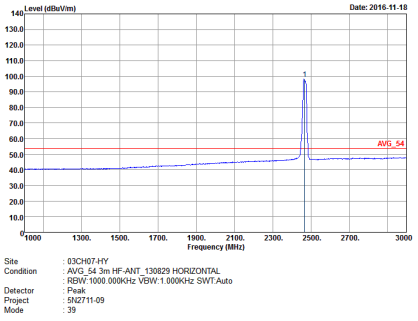
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Vertical	Fundamental
Peak		
Avg.		

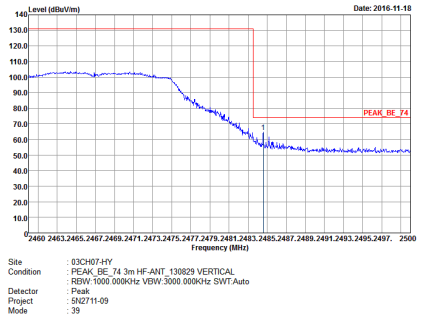
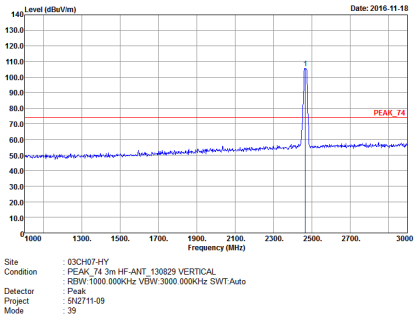
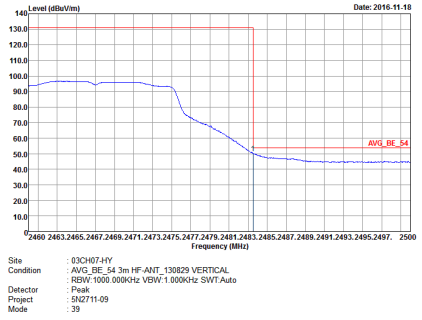
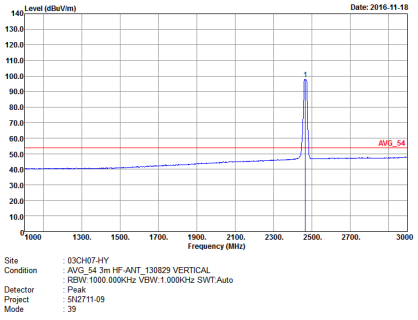
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

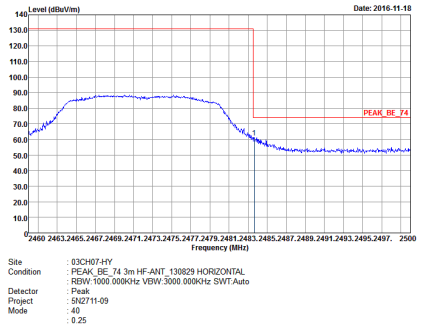
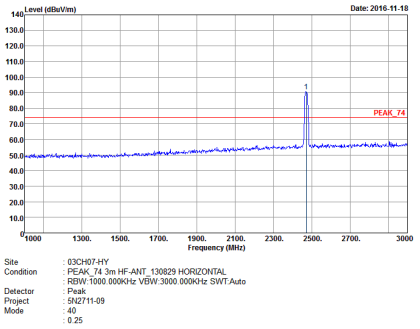
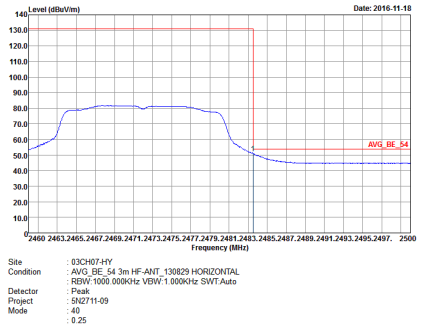
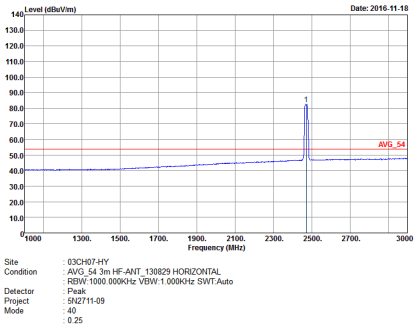
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Vertical	Fundamental
Peak		
Avg.		

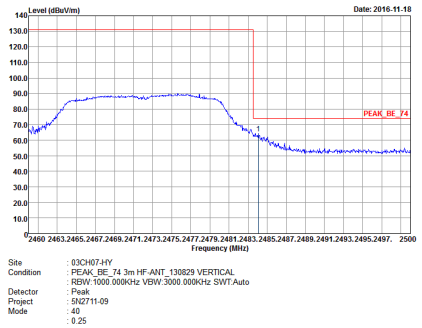
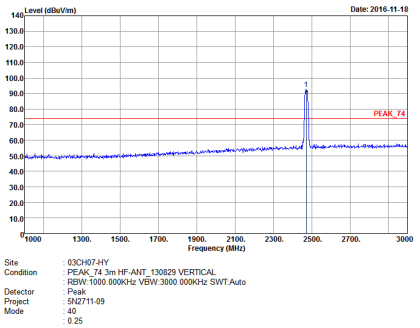
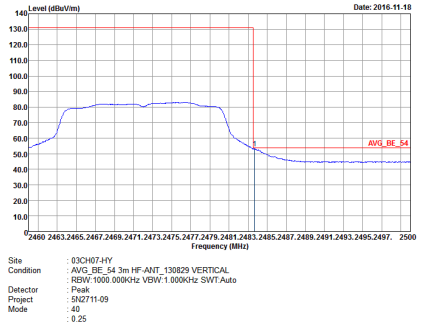
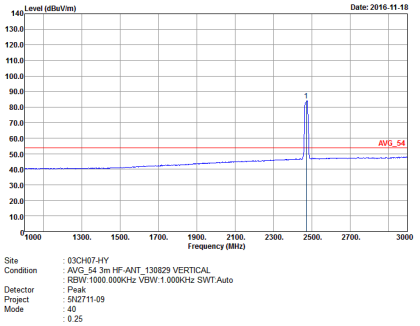
2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

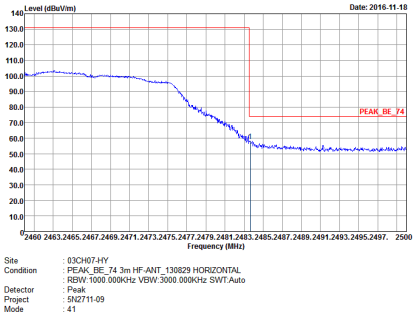
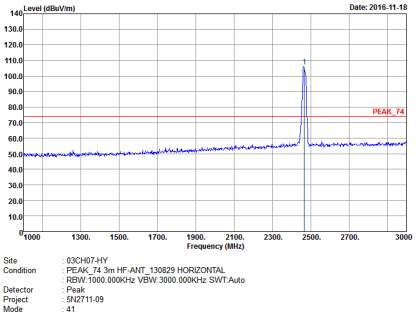
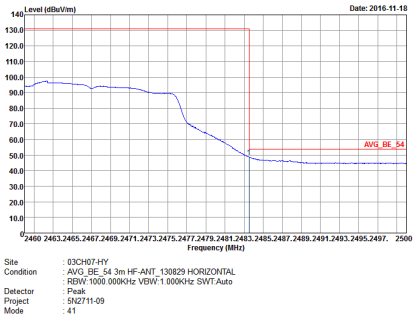
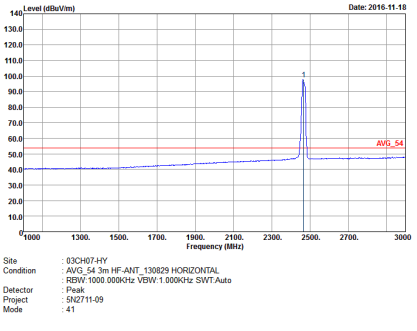
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 39	 Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 39
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 39	 Site : 03CH07-HY Condition : AVG_54 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 39

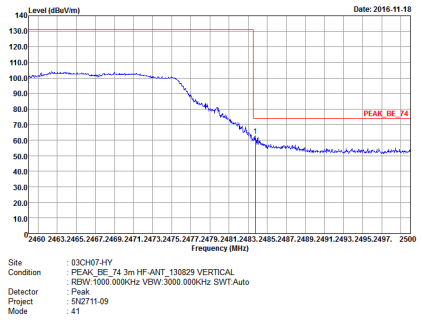
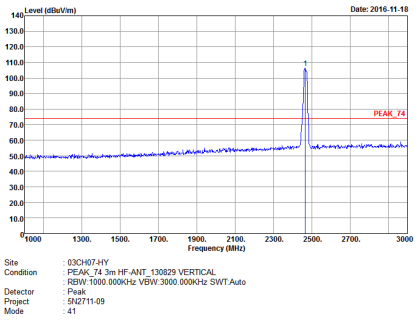
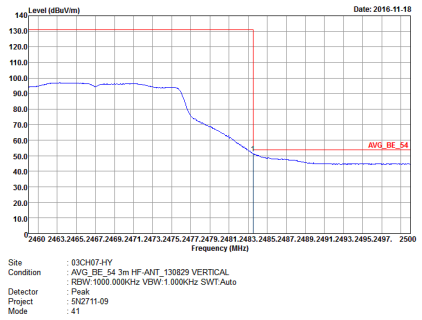
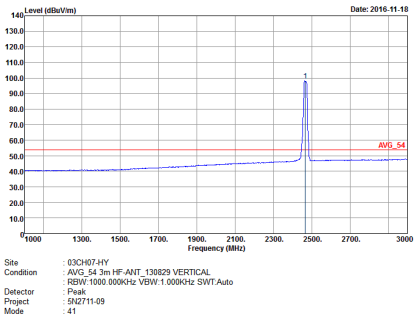
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

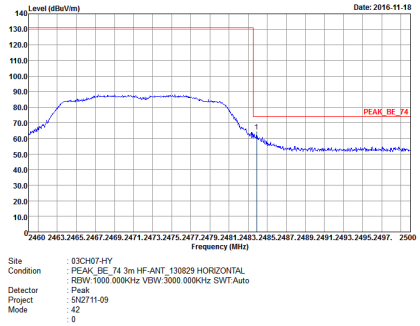
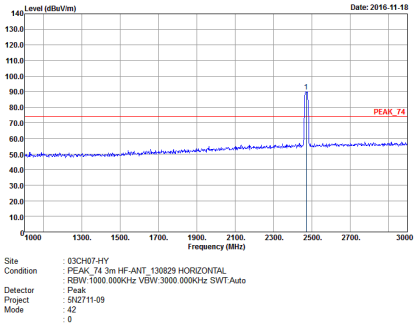
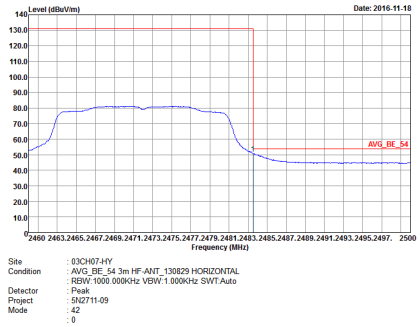
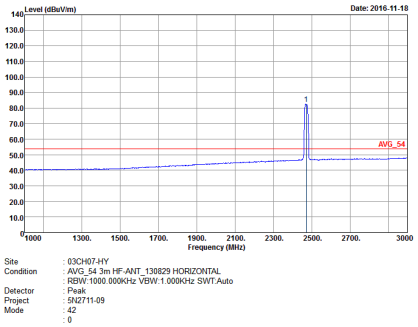
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1	Vertical	Fundamental
Peak		
Avg.		

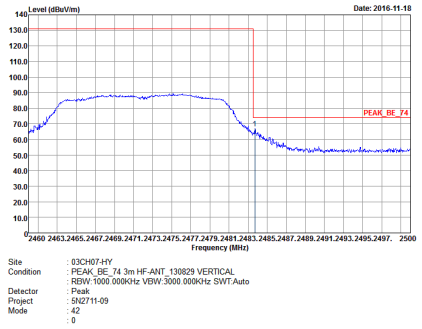
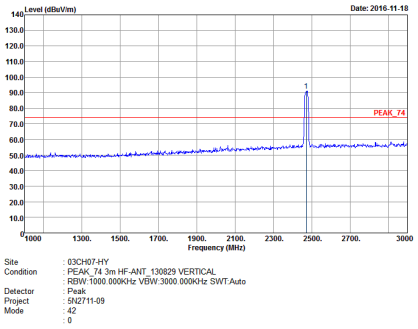
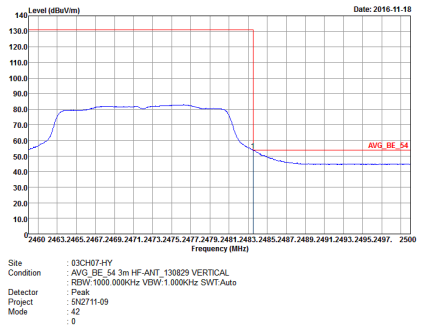
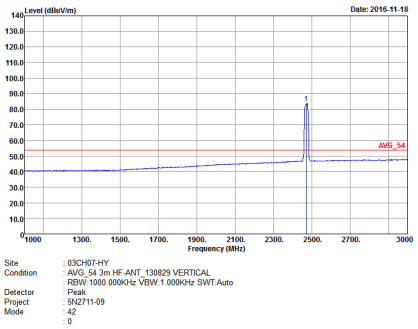
2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

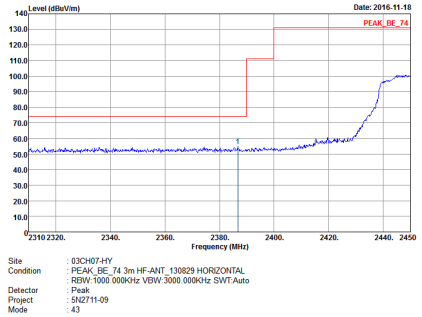
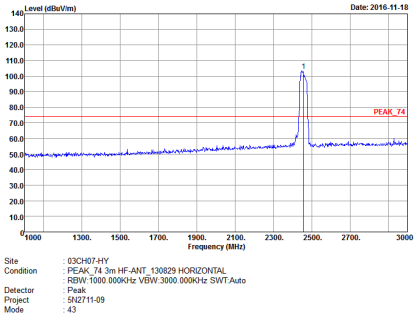
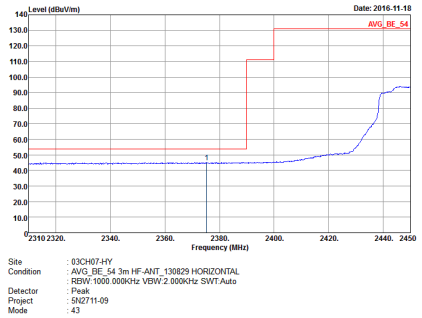
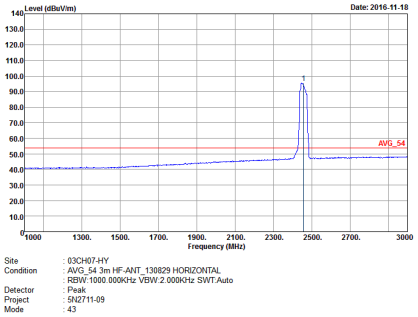
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Vertical	Fundamental
Peak		
Avg.		

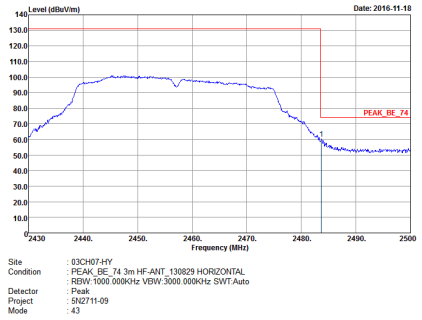
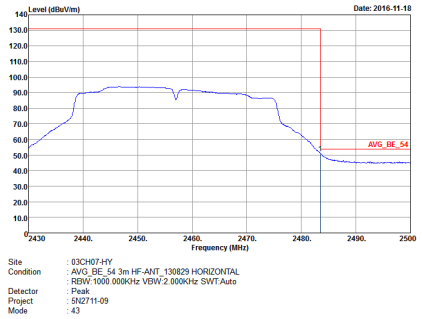
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 42 : 0	 Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 42 : 0
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 42 : 0	 Site : 03CH07-HY Condition : AVG_54 3m HF-ANT_130829 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 42 : 0

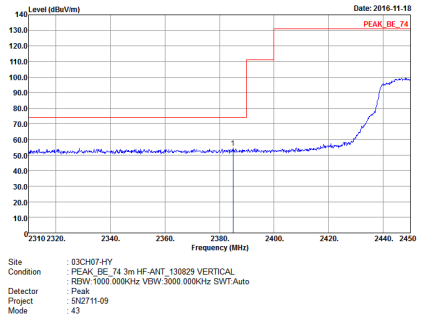
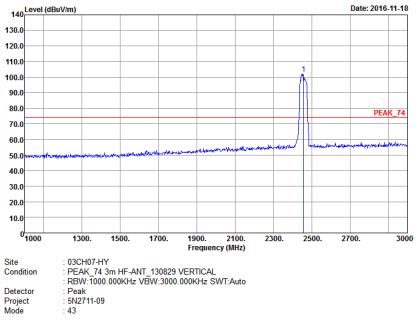
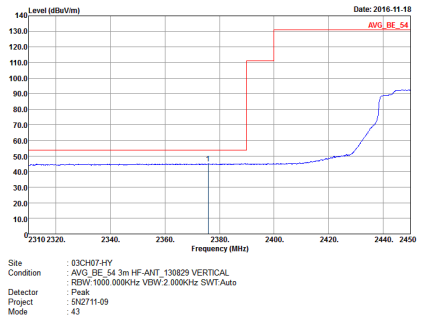
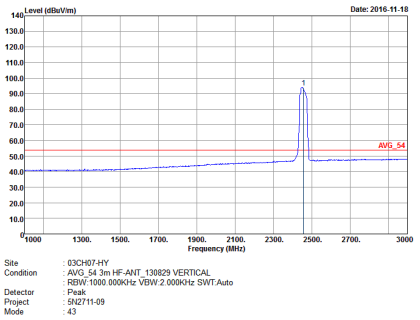
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 42 : 0	 Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 42 : 0
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 42 : 0	 Site : 03CH07-HY Condition : AVG_54 3m HF-ANT_130829 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 42 : 0

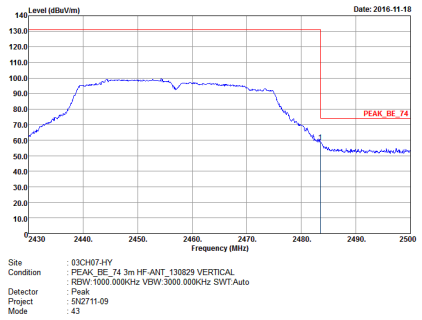
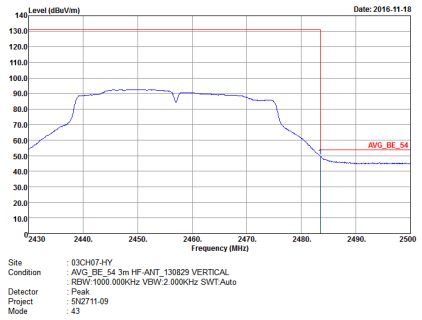
2.4GHz 2400~2483.5MHz

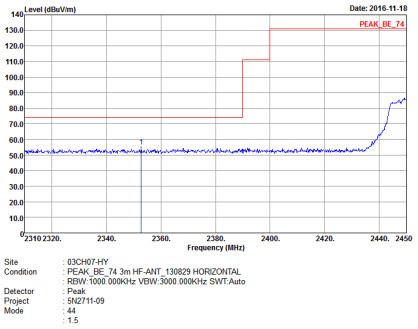
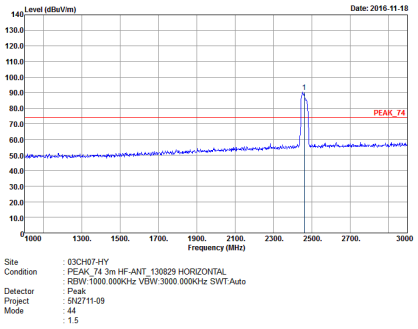
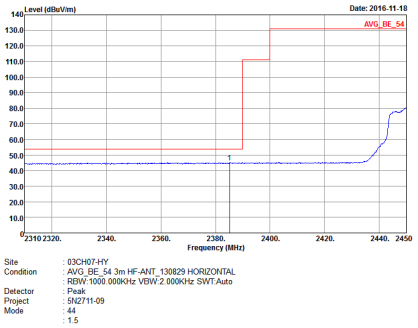
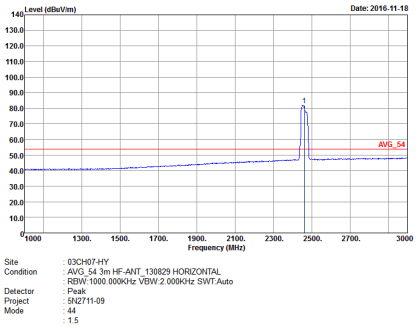
WIFI 802.11n HT40 (Band Edge @ 3m)

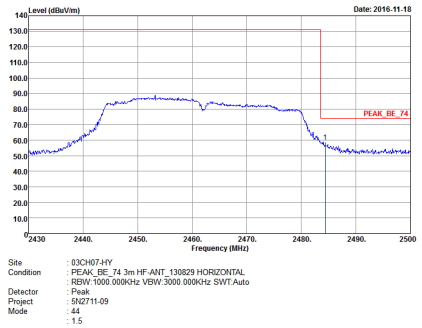
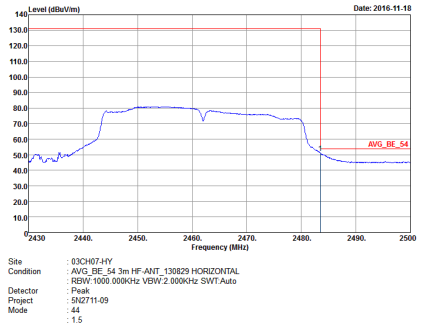
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH10 2457MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		

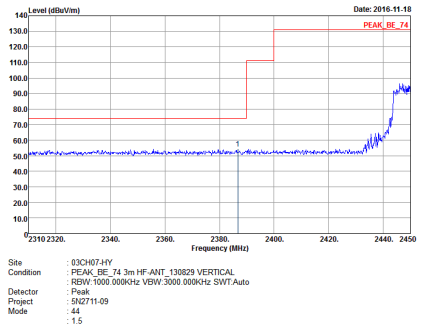
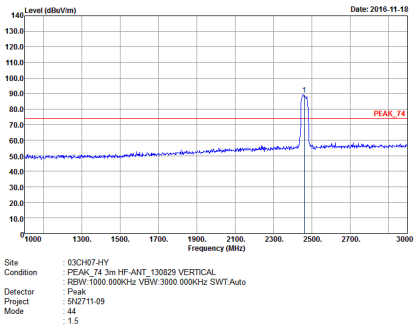
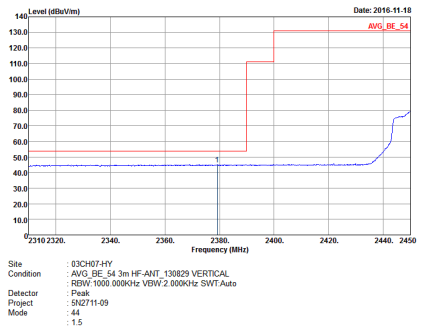
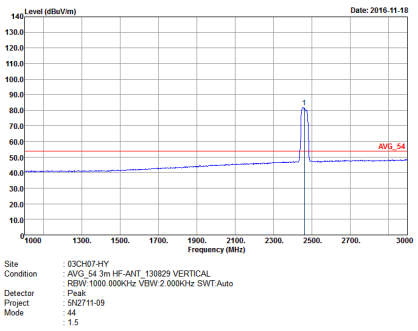
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH10 2457MHz - R	
1	Horizontal	Fundamental
Peak		Left Blank
Avg.		Left Blank

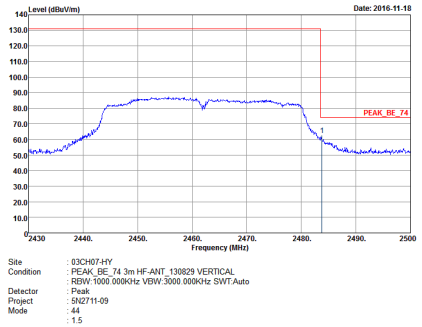
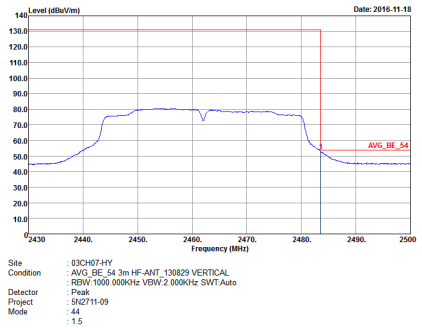
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH10 2457MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		

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

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

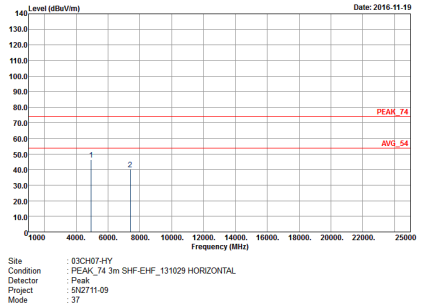
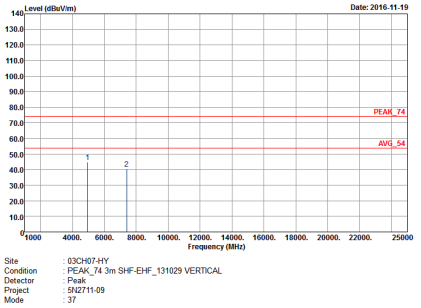
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH11 2462MHz - R	
1	Horizontal	Fundamental
Peak		Left Blank
Avg.		Left Blank

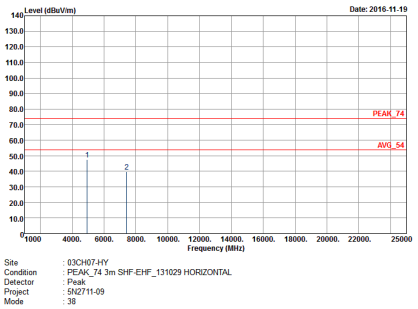
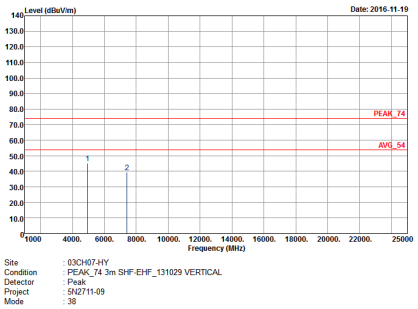
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH11 2462MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		

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

2.4GHz 2400~2483.5MHz

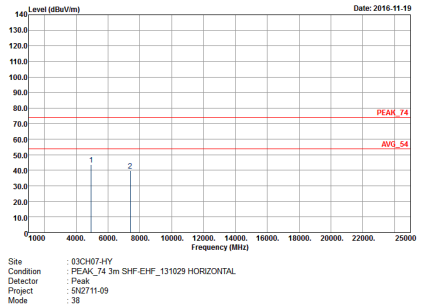
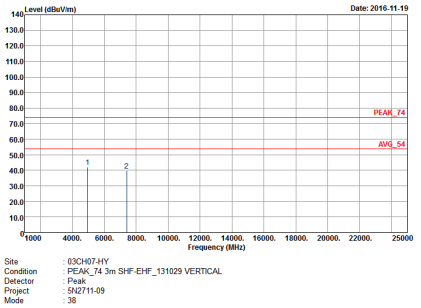
WIFI 802.11b (Harmonic @ 3m)

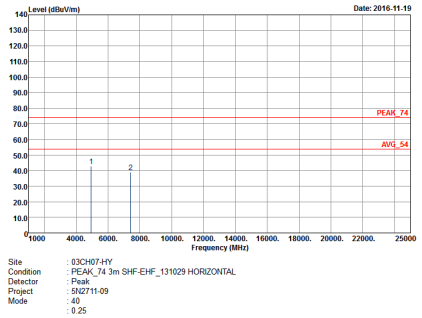
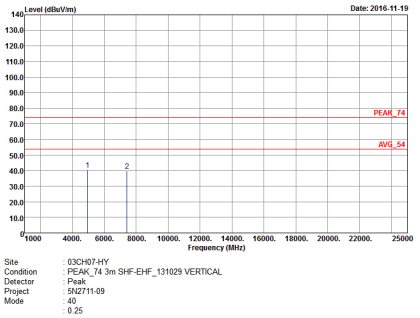
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH12 2467MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH13 2472MHz	
1	Horizontal	Vertical
Peak Avg.		

2.4GHz 2400~2483.5MHz

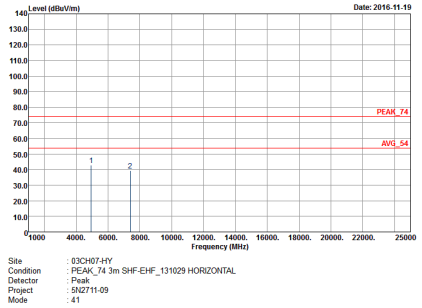
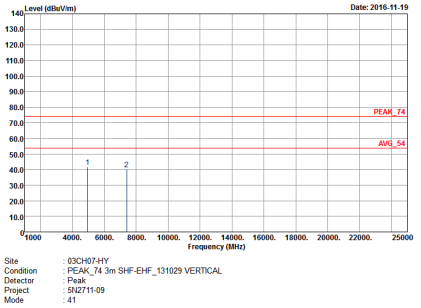
WIFI 802.11g (Harmonic @ 3m)

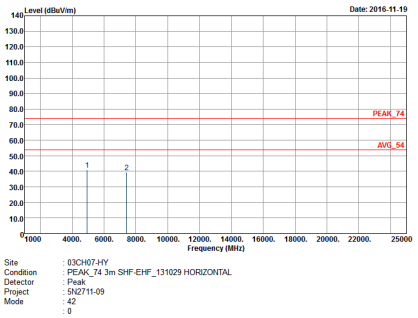
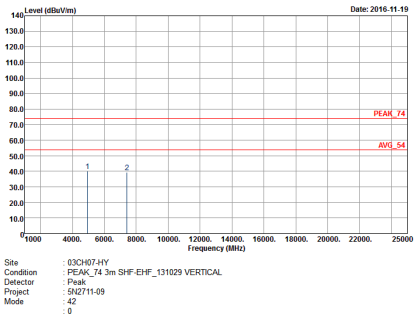
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH12 2467MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH13 2472MHz	
1	Horizontal	Vertical
Peak Avg.		

2.4GHz 2400~2483.5MHz

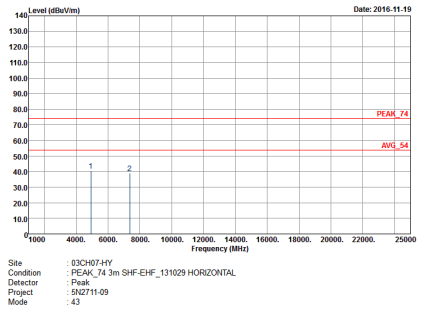
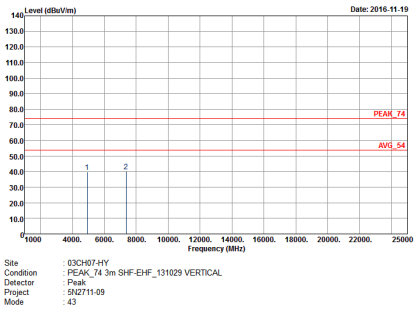
WIFI 802.11n HT20 (Harmonic @ 3m)

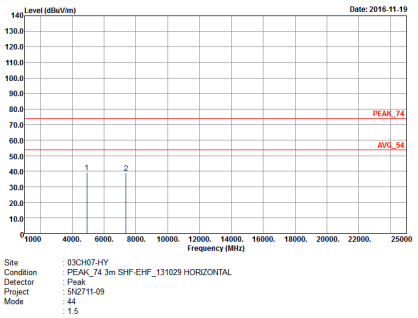
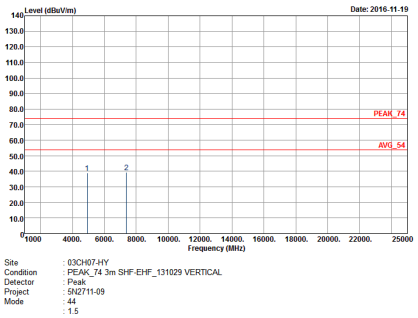
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
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 CH12 2467MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH13 2472MHz	
1	Horizontal	Vertical
Peak Avg.		

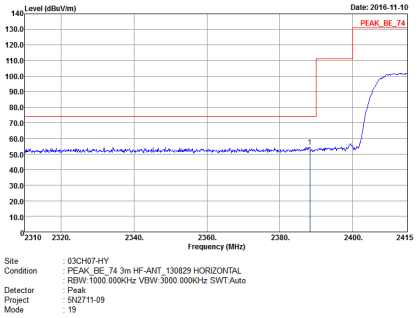
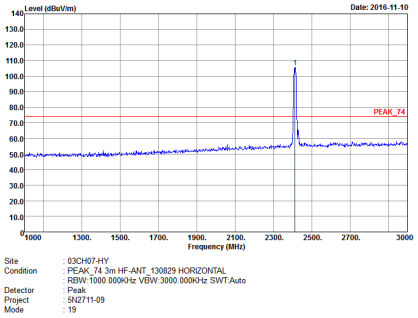
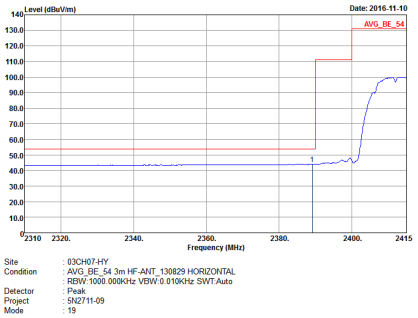
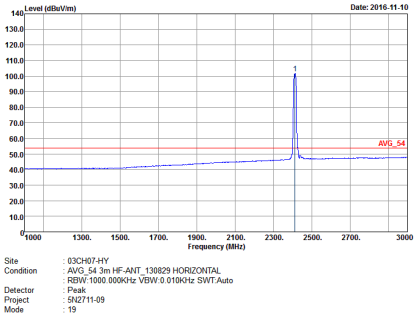
<Ant. 2>

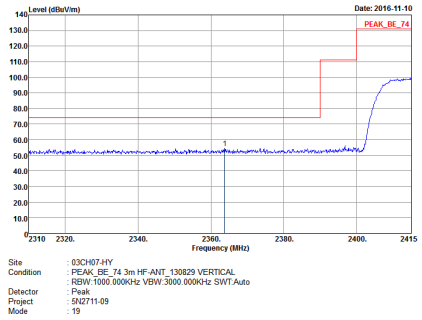
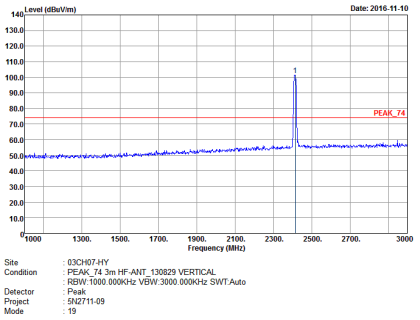
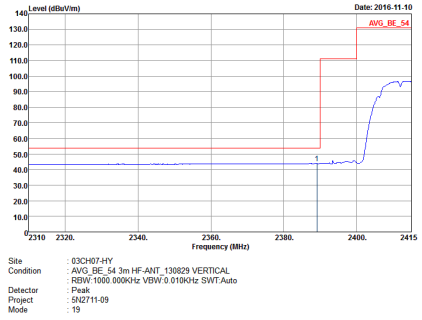
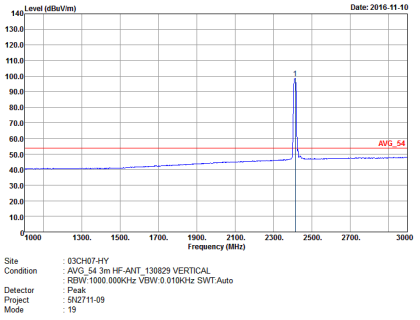
Note symbol

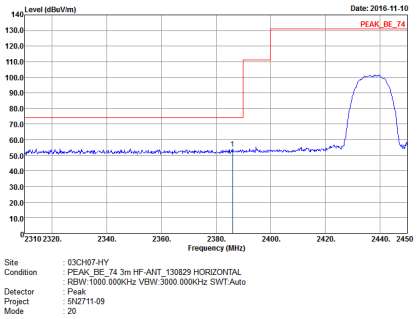
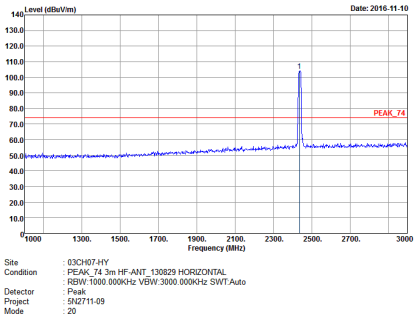
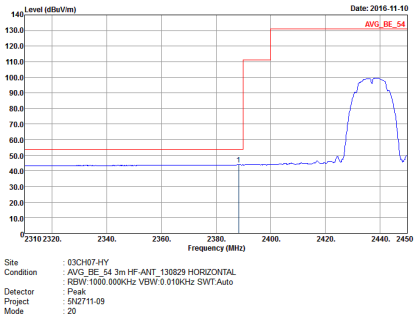
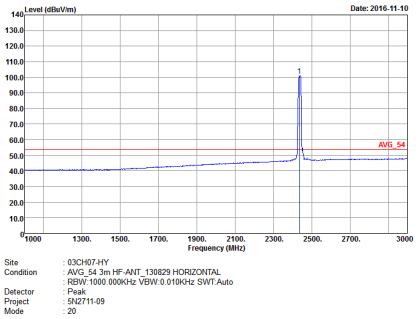
-L	**Low channel location**
-R	**High channel location**

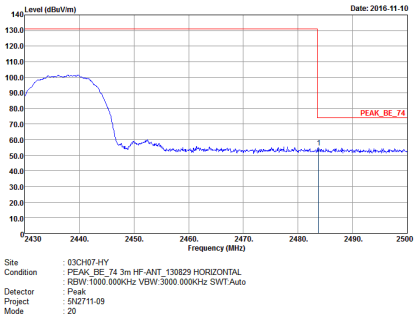
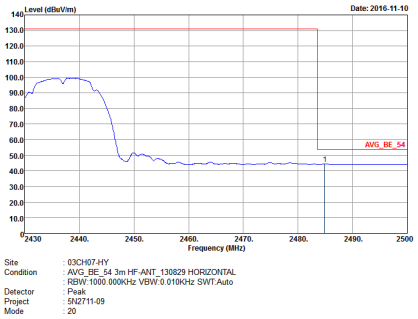
2.4GHz 2400~2483.5MHz

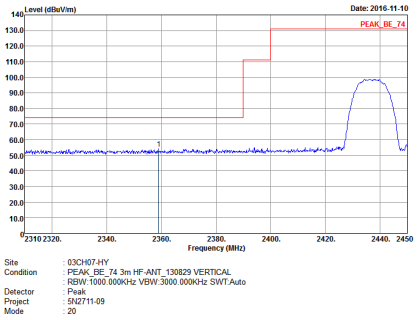
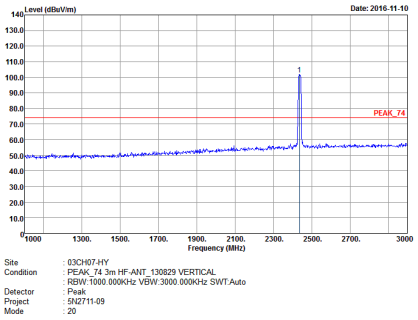
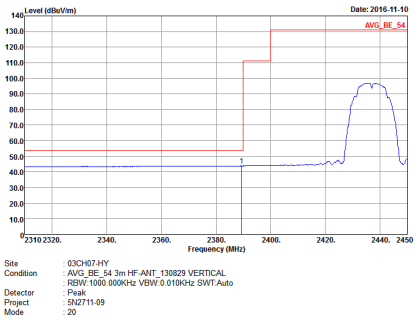
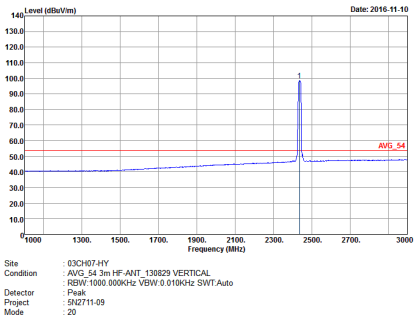
WIFI 802.11b (Band Edge @ 3m)

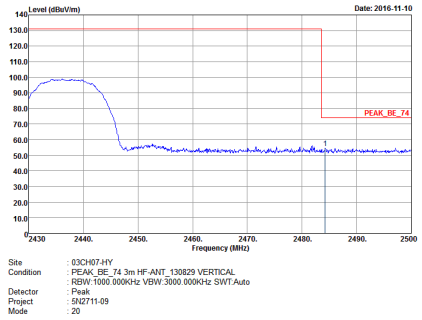
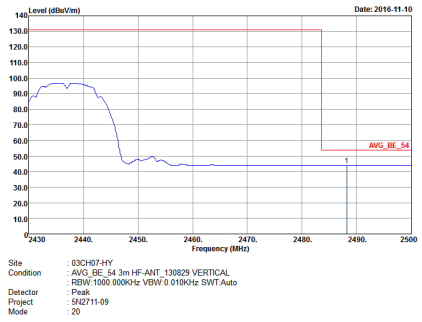
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
2	Horizontal	Fundamental
Peak		
Avg.		

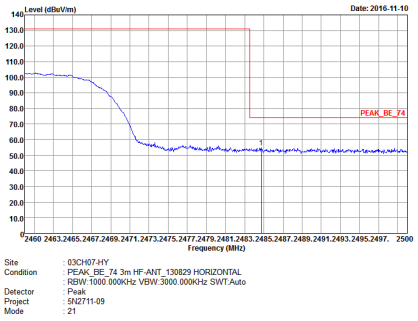
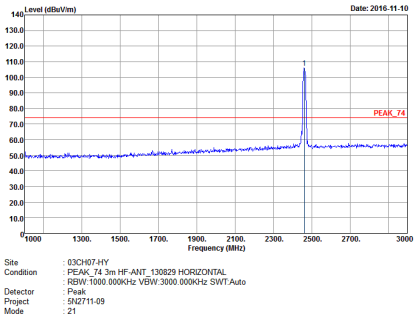
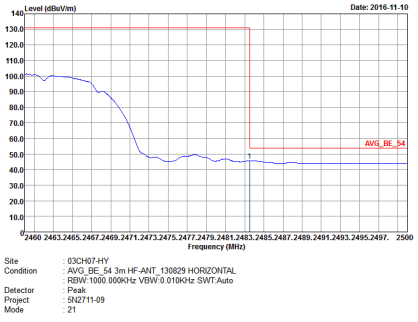
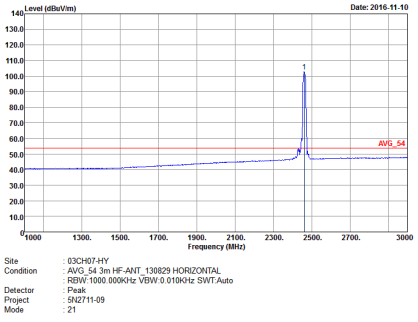
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
2	Vertical	Fundamental
Peak		
Avg.		

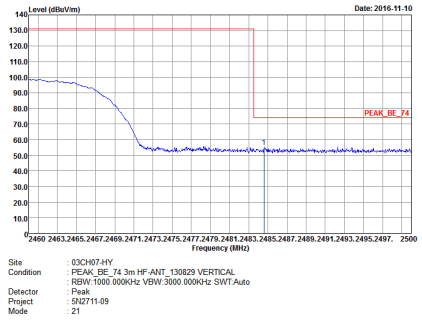
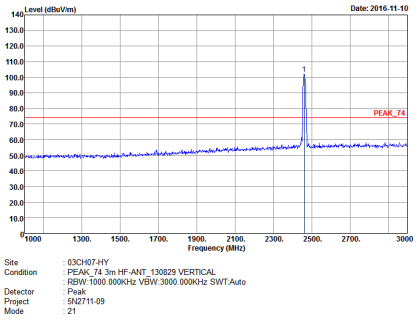
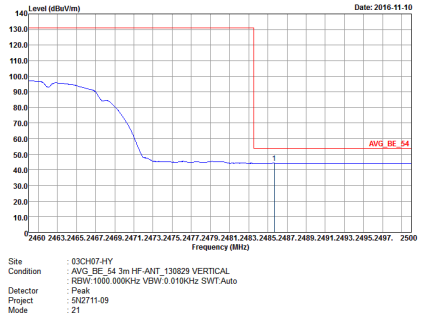
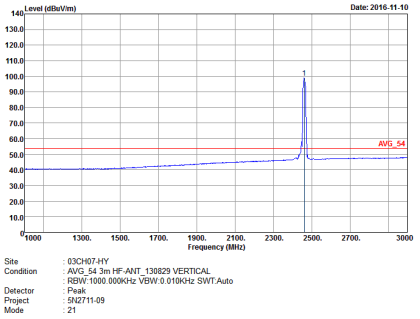
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		

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

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

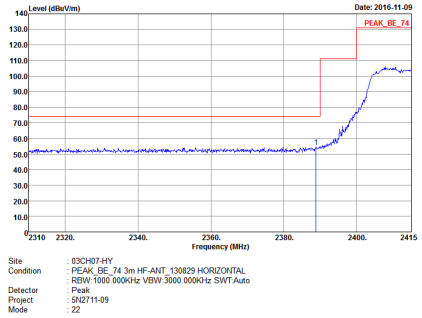
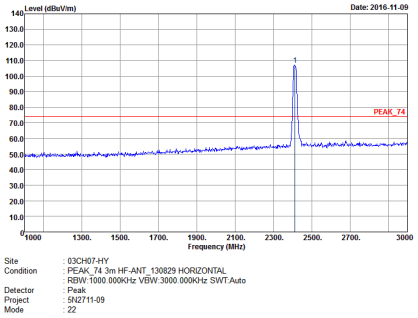
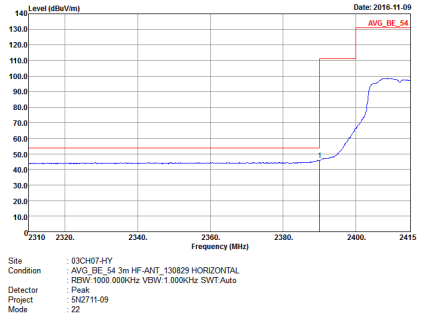
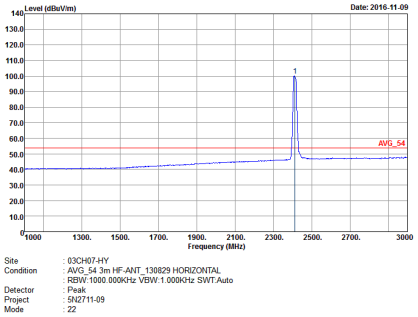
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

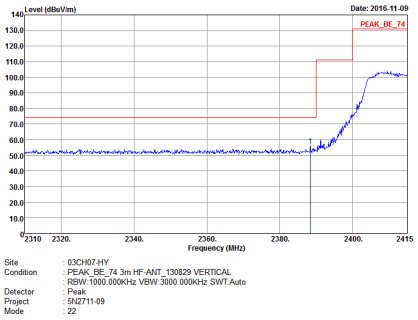
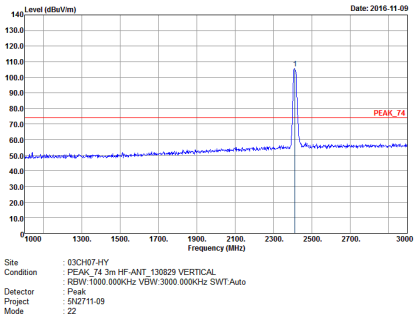
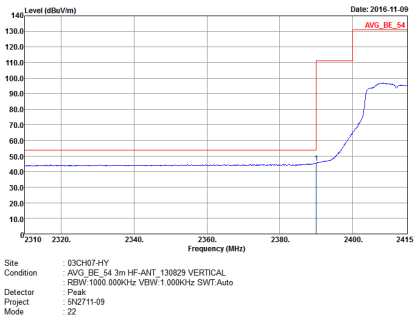
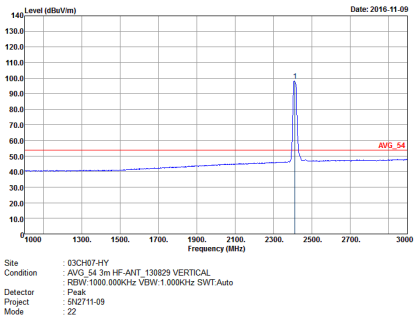
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
2	Horizontal	Fundamental
Peak		
Avg.		

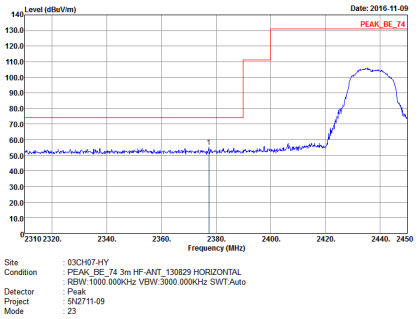
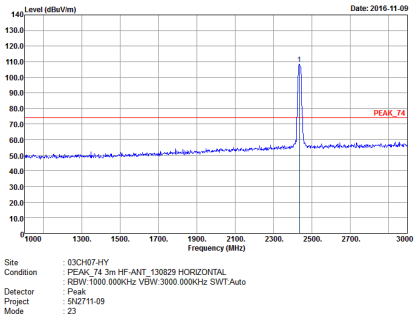
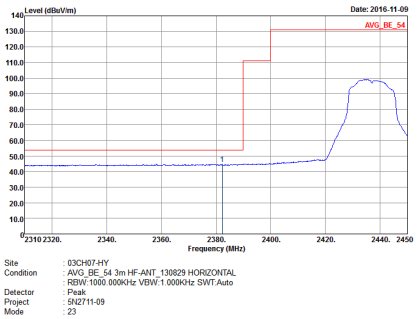
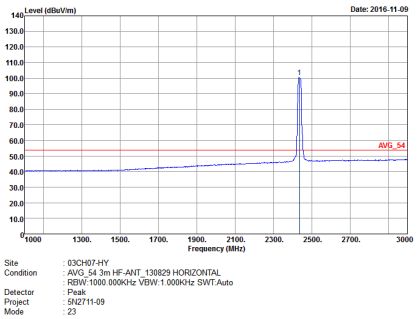
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
2	Vertical	Fundamental
Peak		
Avg.		

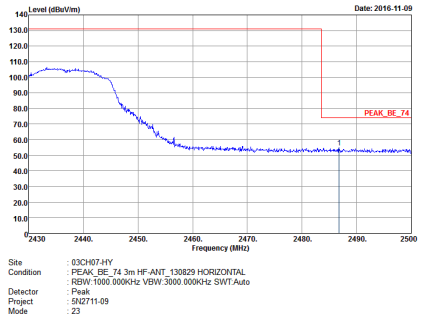
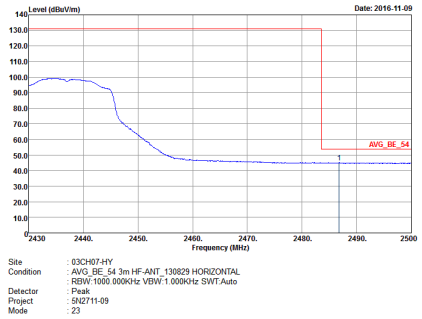
2.4GHz 2400~2483.5MHz

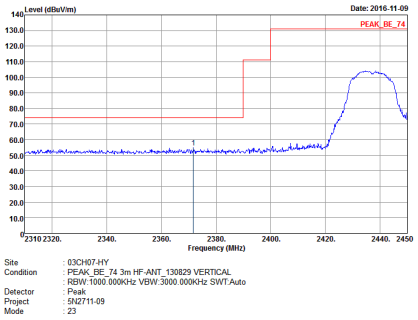
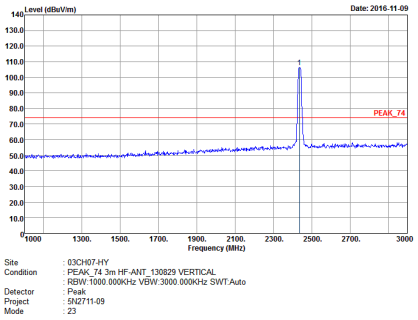
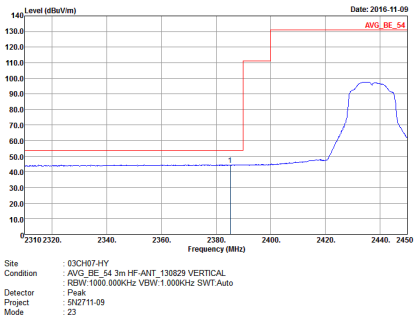
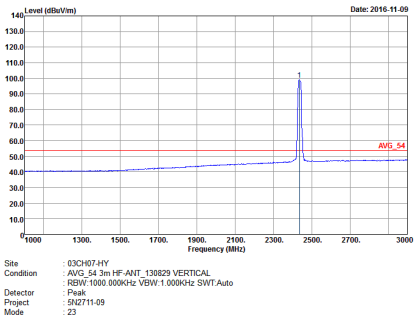
WIFI 802.11g (Band Edge @ 3m)

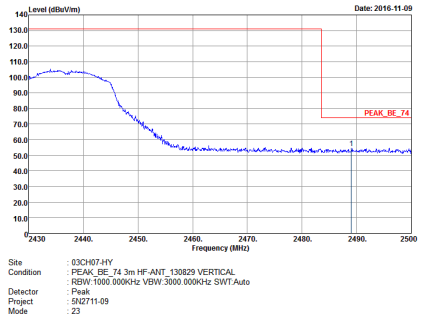
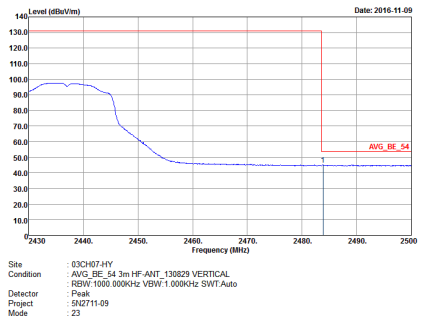
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
2	Horizontal	Fundamental
Peak		
Avg.		

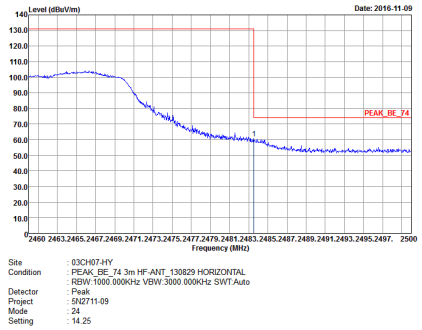
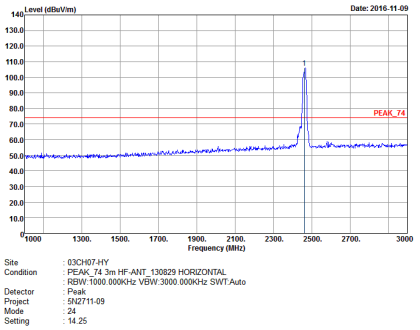
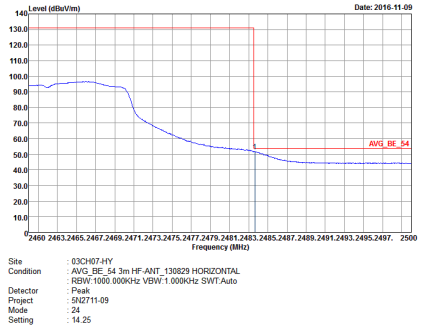
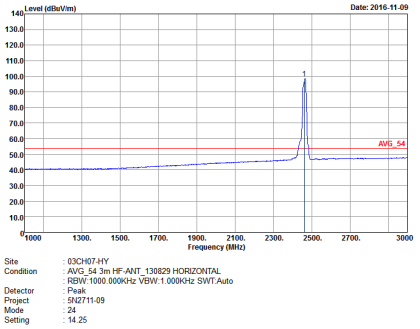
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
2	Vertical	Fundamental
Peak		
Avg.		

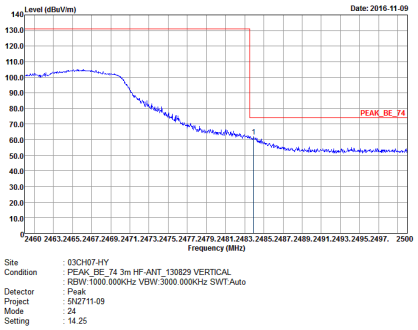
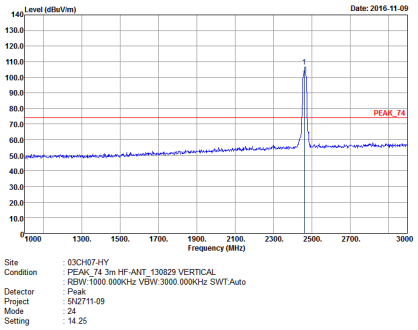
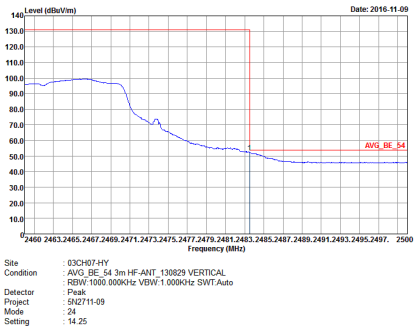
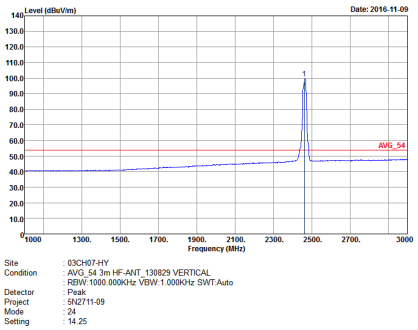
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		

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

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

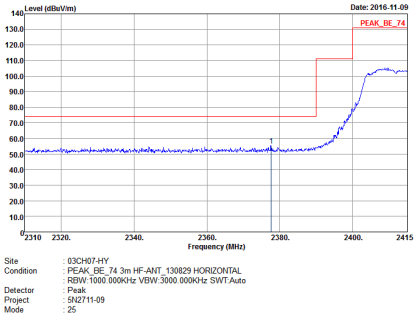
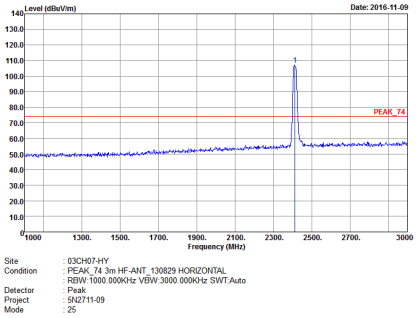
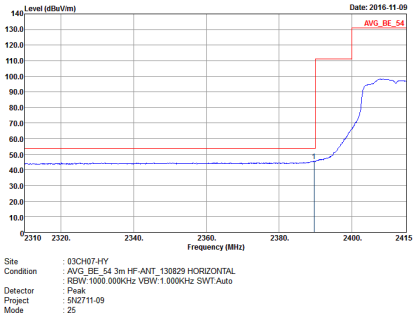
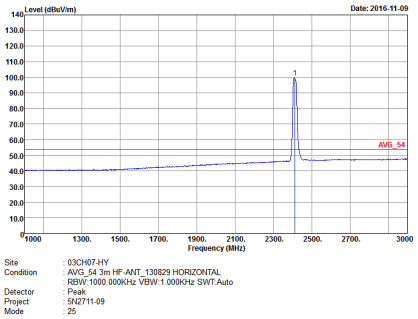
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
2	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

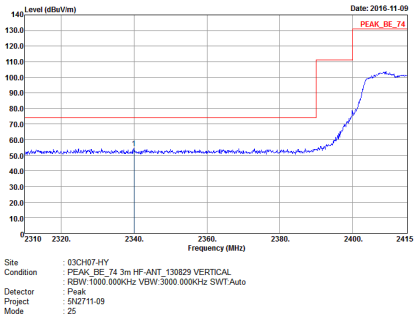
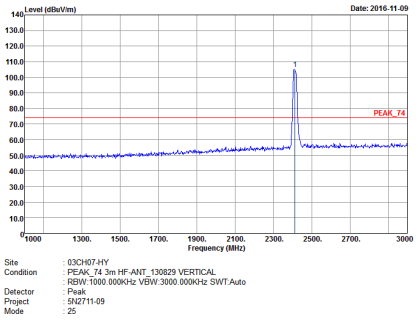
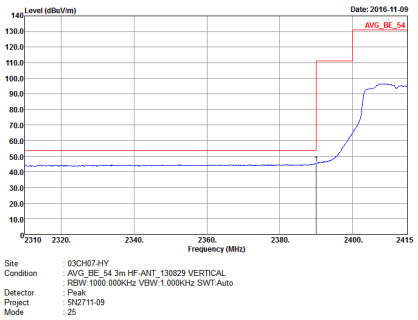
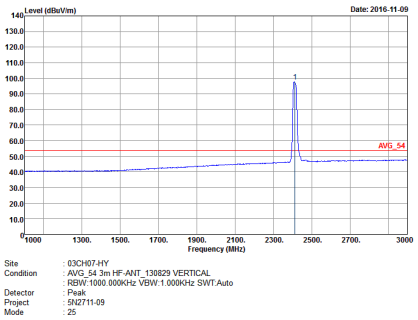
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
2	Horizontal	Fundamental
Peak		
Avg.		

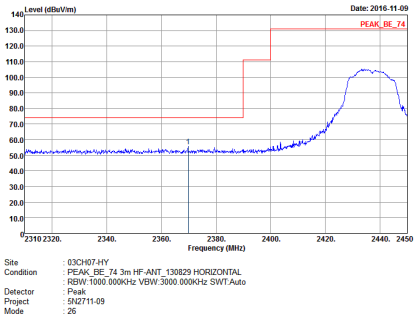
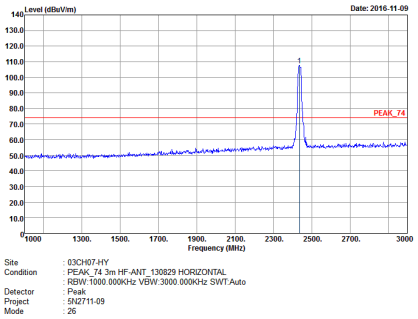
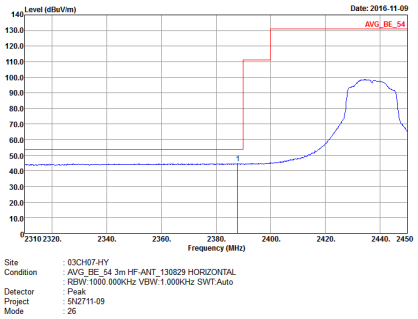
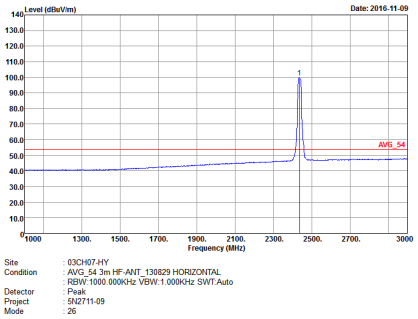
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
2	Vertical	Fundamental
Peak		
Avg.		

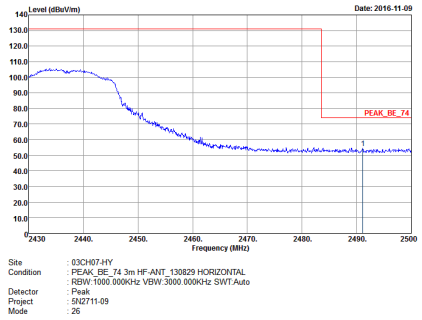
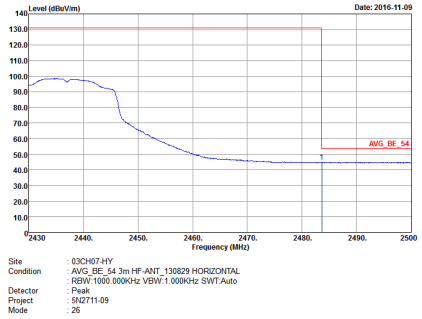
2.4GHz 2400~2483.5MHz

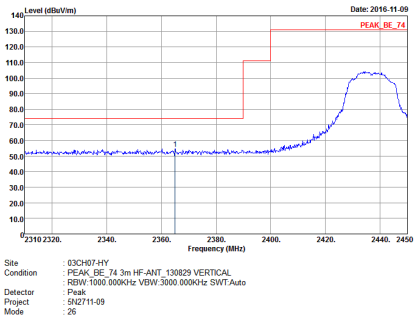
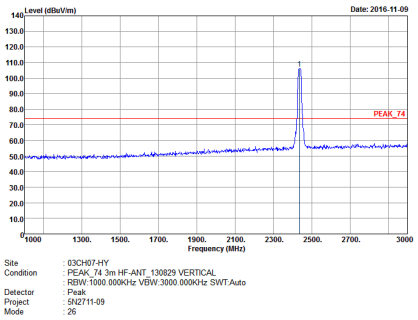
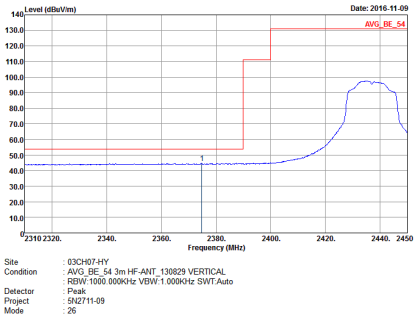
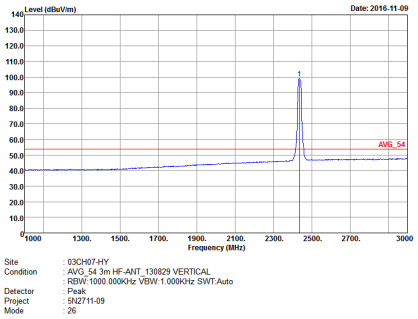
WIFI 802.11n HT20 (Band Edge @ 3m)

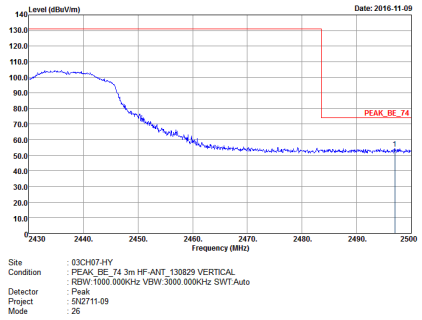
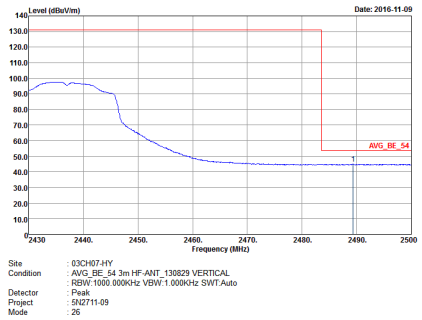
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
2	Horizontal	Fundamental
Peak		
Avg.		

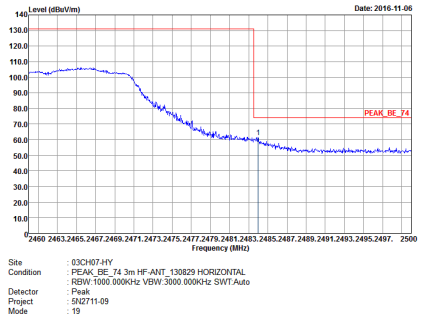
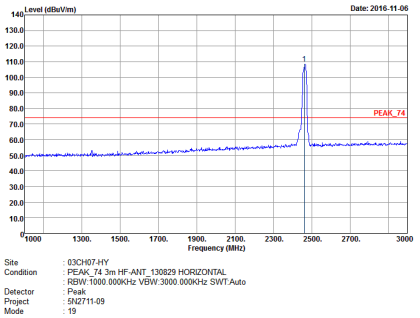
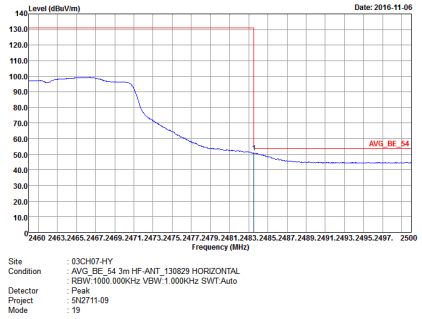
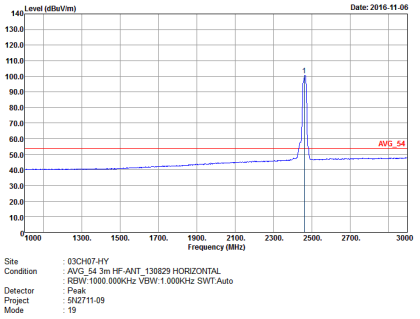
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
2	Vertical	Fundamental
Peak		
Avg.		

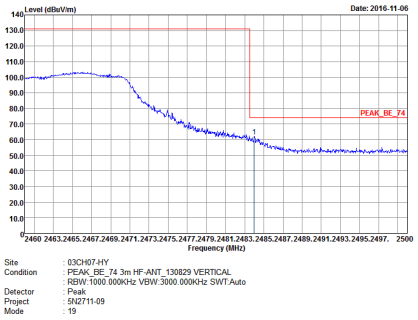
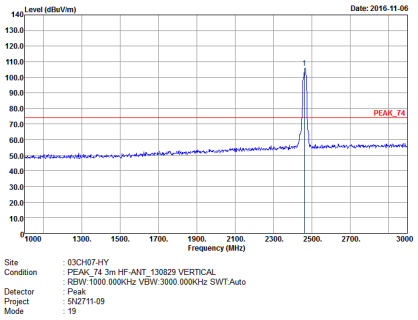
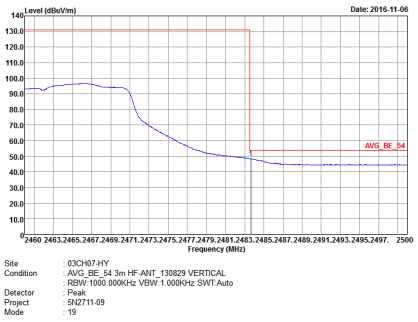
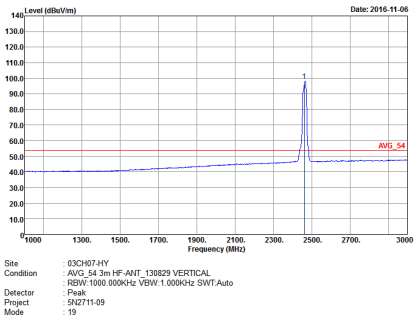
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		

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

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

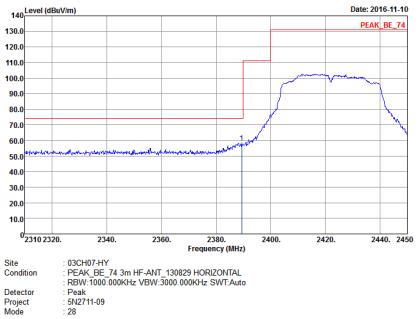
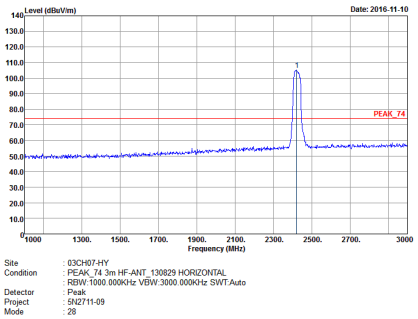
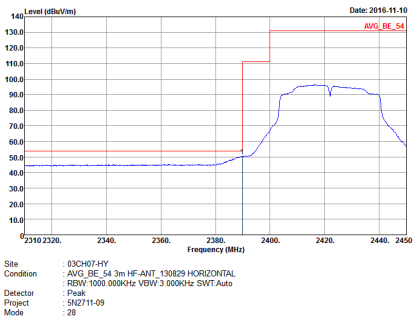
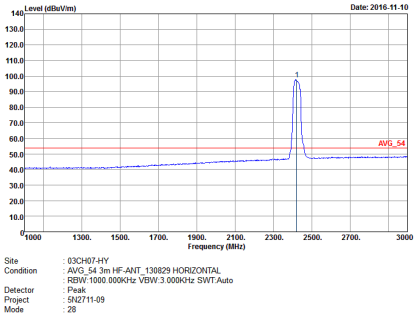
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
2	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

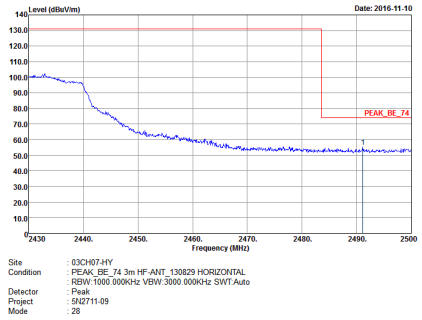
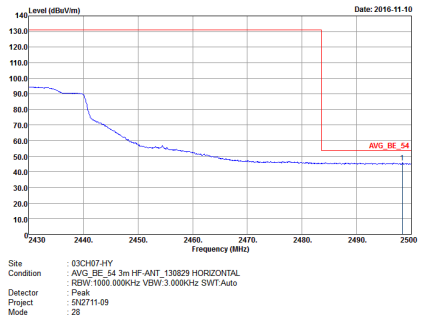
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
2	Horizontal	Fundamental
Peak		
Avg.		

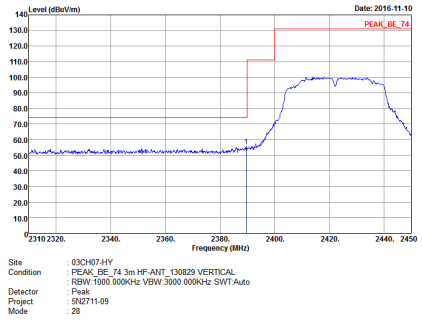
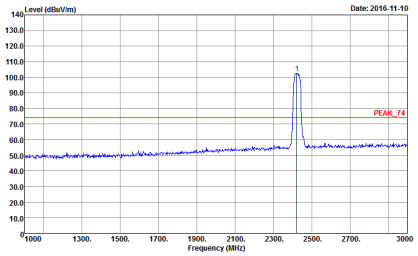
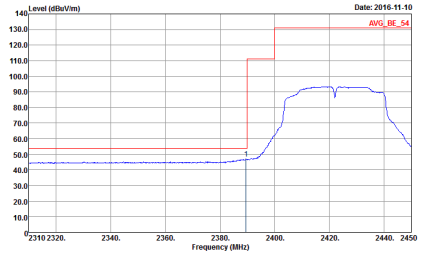
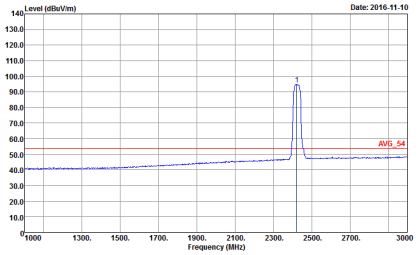
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
2	Vertical	Fundamental
Peak		
Avg.		

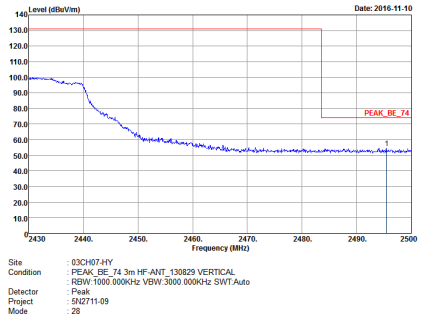
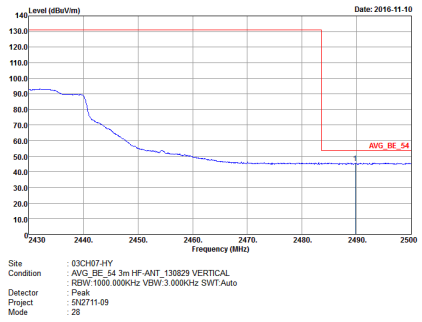
2.4GHz 2400~2483.5MHz

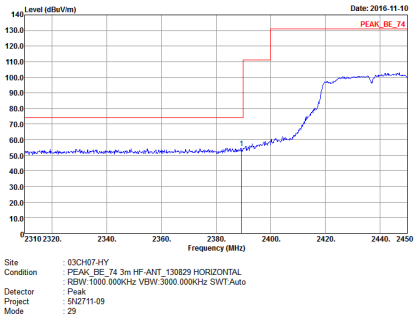
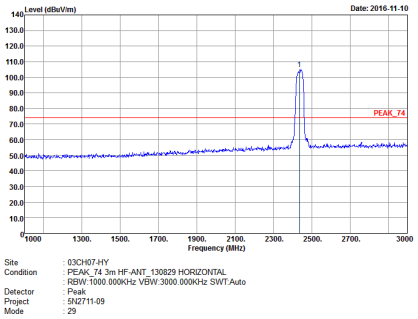
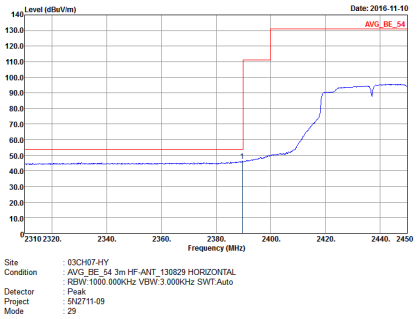
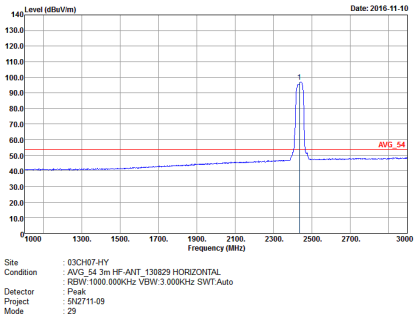
WIFI 802.11n HT40 (Band Edge @ 3m)

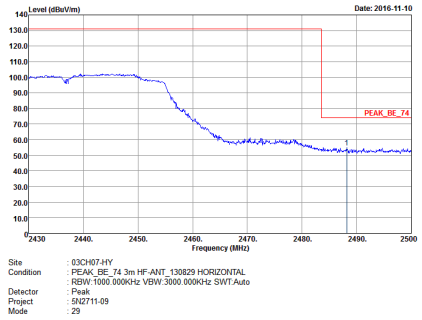
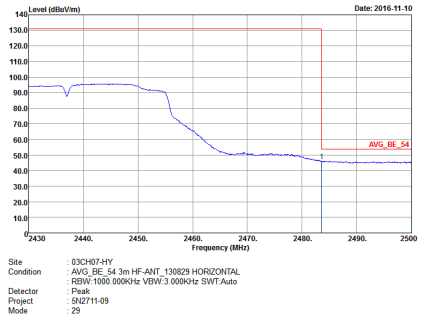
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		

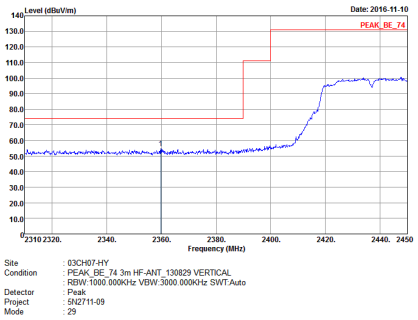
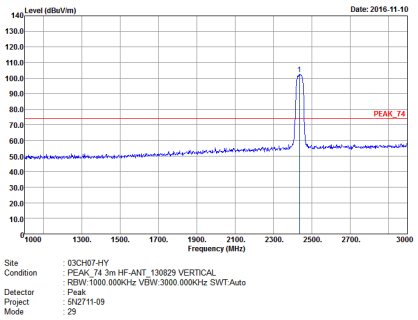
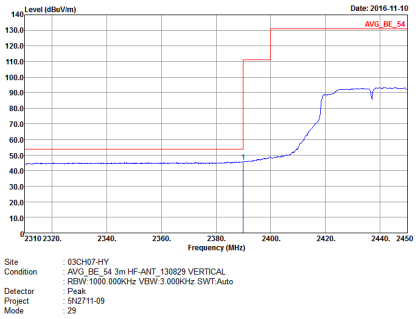
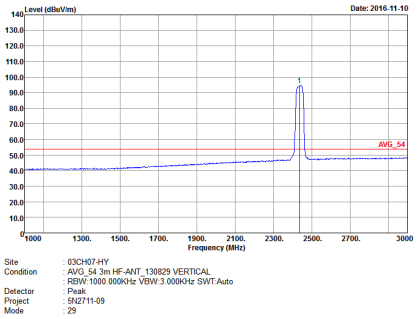
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
2	Horizontal	Fundamental
Peak		Left Blank
Avg.		Left Blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 28	 Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 28
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 28	 Site : 03CH07-HY Condition : AVG_54 3m HF-ANT_130829 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 5N2711-09 Mode : 28

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

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

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
2	Vertical	Fundamental
Peak		
Avg.