

FCC RF Test Report

APPLICANT : Fluke Corporation
EQUIPMENT : CableAnalyzer
BRAND NAME : Fluke
MODEL NAME : Versiv 2,DSX-602
FCC ID : T68-VERSIV2
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

This is a partial report. The product was received on Jul. 21, 2017 and testing was completed on Aug. 06, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR762122B	Rev. 01	Initial issue of report	Sep. 06, 2017



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(b)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.2	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.23 dB at 34.050 MHz
3.3	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 13.0 dB at 0.158 MHz
3.4	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

Fluke Corporation

6920 Seaway Blvd, Everett, WA, 98203

1.2 Manufacturer

Fluke Corporation

6920 Seaway Blvd, Everett, WA, 98203

1.3 Product Feature of Equipment Under Test

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

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

1.4 Modification of EUT

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

1.5 Testing Location

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

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

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH15-HY	

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

1.6 Applicable Standards

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

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

Remark: 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

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

2.1 Carrier Frequency and Channel

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

2.2 Test Mode

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

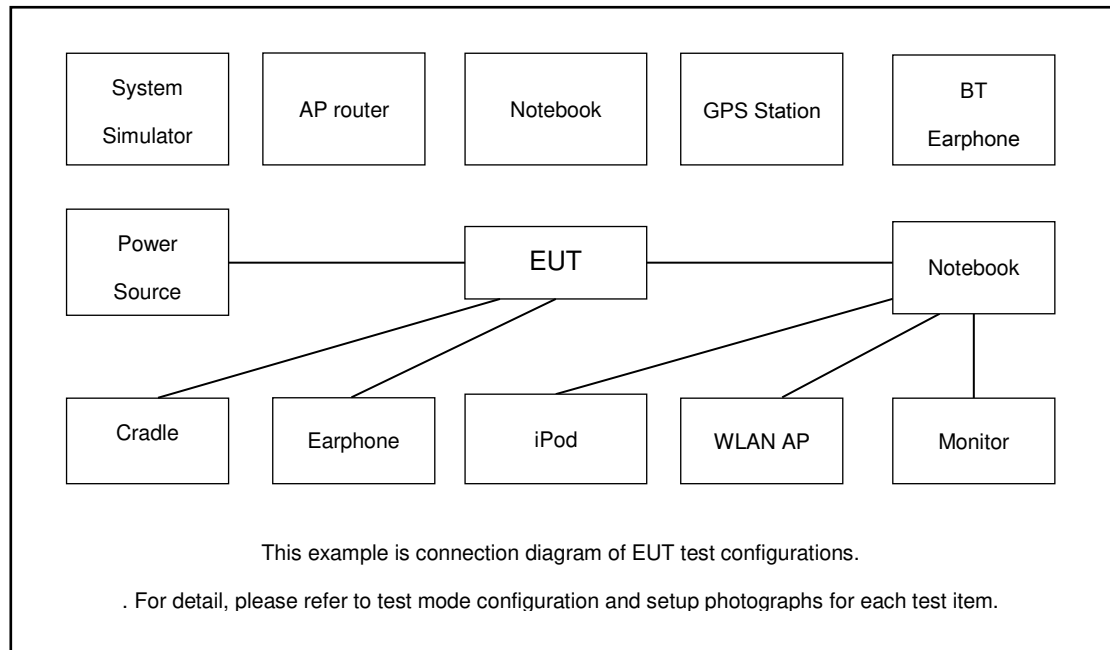
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

MIMO Antenna

Modulation	Data Rate
802.11n HT20	MCS12

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (2.4GHz) Link + Bluetooth LE Tx + LAN (Load) + USB cable connect to Notebook + USB port connect to USB storage devices + Earphone + Adapter

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
2.	iPod	Apple	A1285	DoC	Shielded, 1.0m	N/A
3.	iPod Earphone	Apple	A1285	DoC	UnShielded, 1.2m	N/A
4.	NOTE BOOK	Dell	P20G	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	NOTE BOOK	Dell	Latitude E6320	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	USB Dongle	Transcend	TS8GJF300	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN function, programmed RF utility, "Tera Term" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals..

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example:

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 Peak Output Power Measurement

3.1.1 Limit of Peak Output Power

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

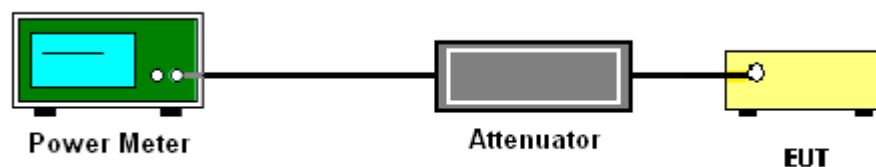
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.1.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A



3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

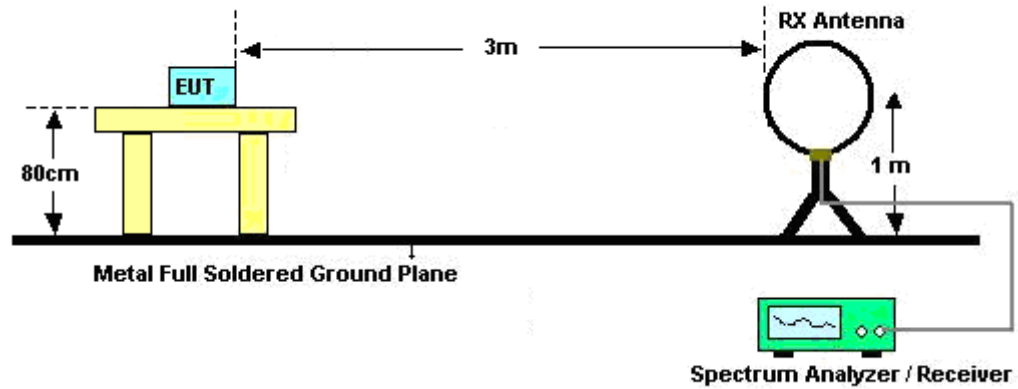
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

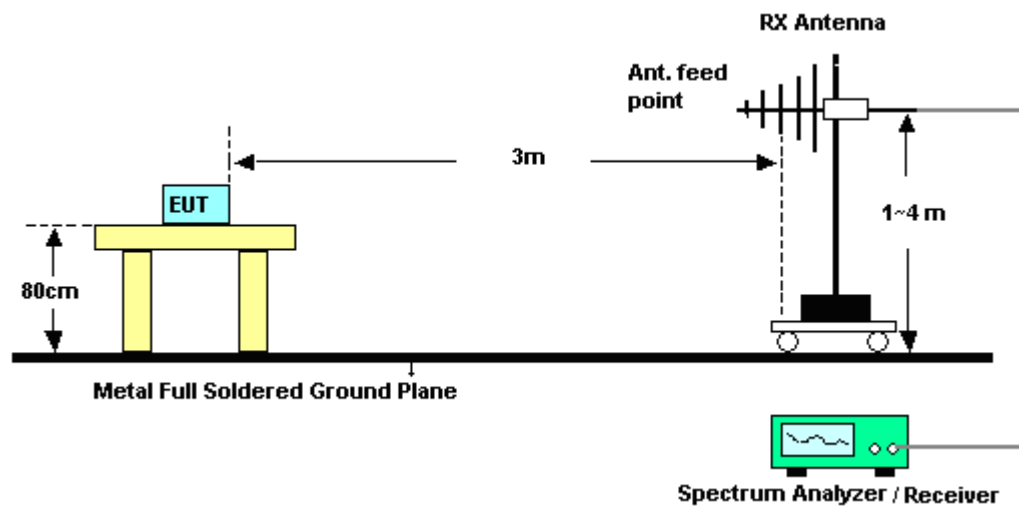
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.2.4 Test Setup

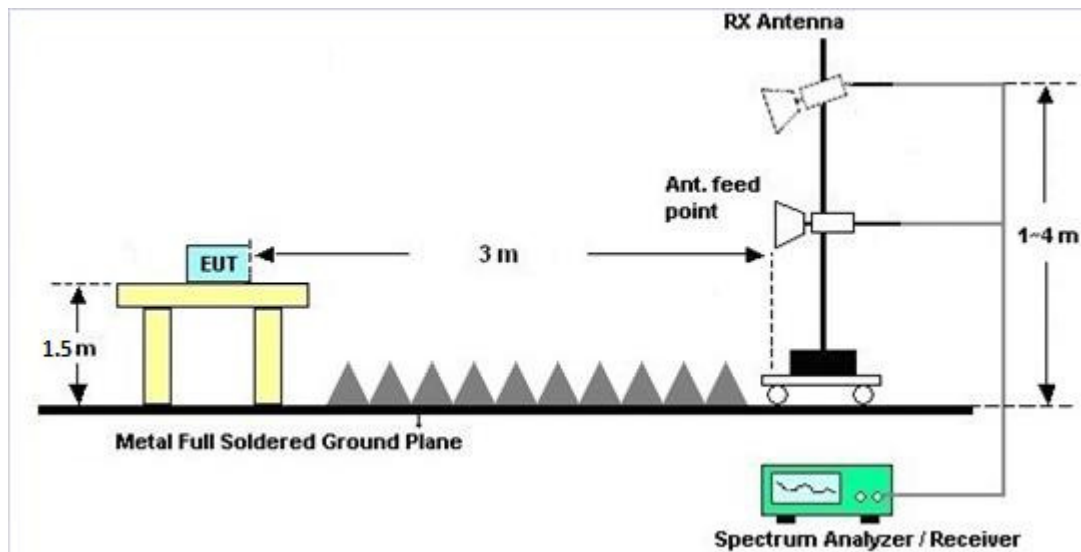
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.2.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.3 AC Conducted Emission Measurement

3.3.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

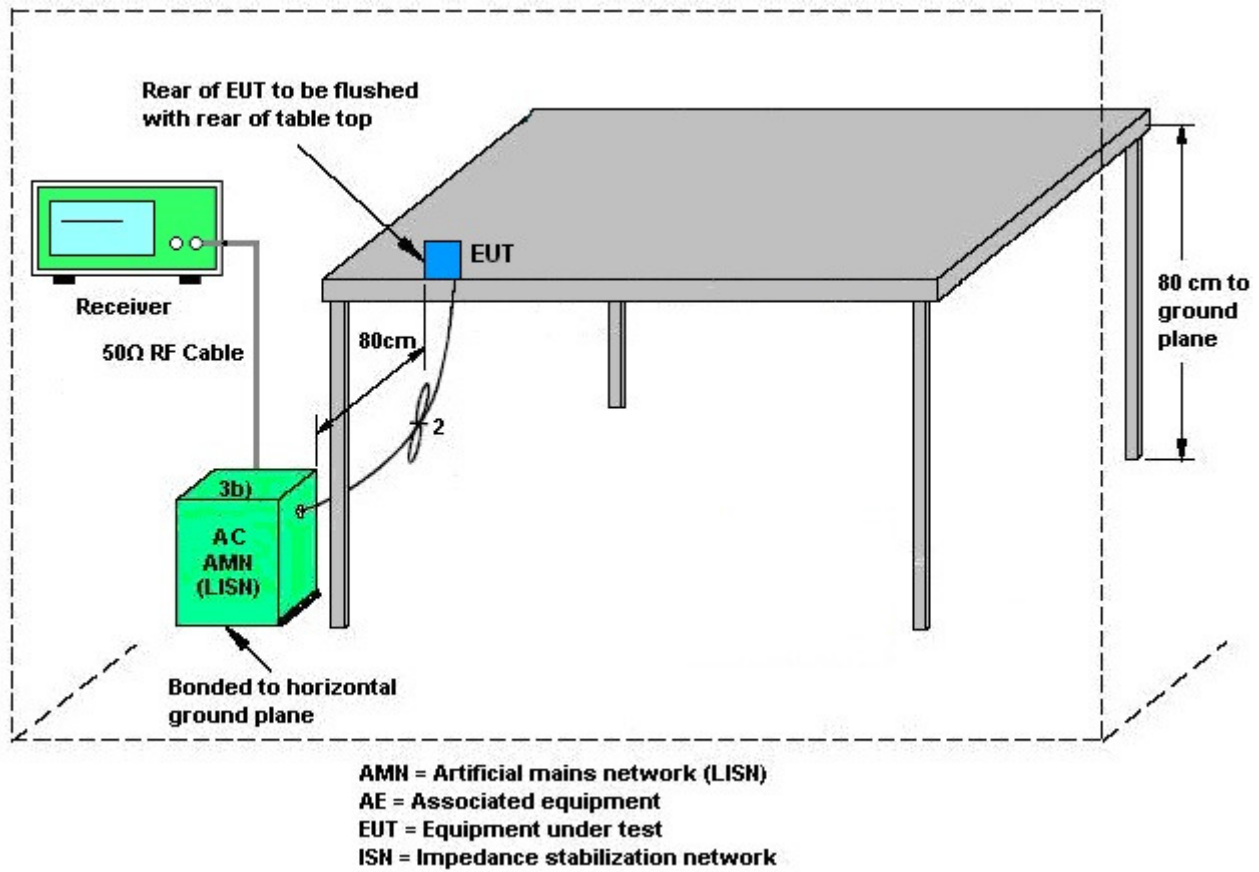
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.4 Antenna Requirements

3.4.1 Standard Applicable

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

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.4.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

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

			DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant. 1 (dBi)	Ant. 2 (dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	3.20	3.20	3.20	6.21	0.00	0.21

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 29, 2016	Jul. 12, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Jul. 12, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jul. 17, 2016	Jul. 12, 2017	Jul. 16, 2017	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 06, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Aug. 06, 2017	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Aug. 06, 2017	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	Aug. 06, 2017	Dec. 05, 2017	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	May 15, 2017	Jul. 18, 2017 ~ Jul. 26, 2017	May 14, 2019	Radiation (03CH15-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800	2025787	1GHZ~18GHZ	Feb. 13, 2017	Jul. 18, 2017 ~ Jul. 26, 2017	Feb. 12, 2018	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 576	18GHz ~ 40GHz	Apr. 27, 2017	Jul. 18, 2017 ~ Jul. 26, 2017	Apr. 26, 2018	Radiation (03CH15-HY)
Preamplifier	MITEQ	TTA 1840-35-HG	1887435	18GHz ~ 40GHz	Oct. 13, 2016	Jul. 18, 2017 ~ Jul. 26, 2017	Oct. 12, 2017	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Nov. 09, 2016	Jul. 18, 2017 ~ Jul. 26, 2017	Nov. 08, 2017	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&0 0800N1D01N-06	41912&05	30MHz to 1GHz	Jan. 07, 2017	Jul. 18, 2017 ~ Jul. 26, 2017	Jan. 06, 2018	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-162 0	1G~18GHz	Sep. 30, 2016	Jul. 18, 2017 ~ Jul. 26, 2017	Sep. 29, 2017	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY532701 95	1GHz~26.5GHz	Aug. 24, 2016	Jul. 18, 2017 ~ Jul. 26, 2017	Aug. 23, 2017	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	N9030A	MY523502 76	3Hz~44GHz	Mar. 23, 2017	Jul. 18, 2017 ~ Jul. 26, 2017	Mar. 22, 2018	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jul. 18, 2017 ~ Jul. 26, 2017	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jul. 18, 2017 ~ Jul. 26, 2017	N/A	Radiation (03CH15-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.70
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.14
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.48
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.12
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Reece Lin	Temperature:	21~25	°C
Test Date:	2017/7/12	Relative Humidity:	51~54	%

TEST RESULTS DATA
Peak Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	16.51			30.00	30.00	3.20	3.20	19.71		36.00	36.00	Pass
11b	1Mbps	1	6	2437	16.58			30.00	30.00	3.20	3.20	19.78		36.00	36.00	Pass
11b	1Mbps	1	11	2462	16.82			30.00	30.00	3.20	3.20	20.02		36.00	36.00	Pass
11g	6Mbps	1	1	2412	19.98			30.00	30.00	3.20	3.20	23.18		36.00	36.00	Pass
11g	6Mbps	1	6	2437	19.06			30.00	30.00	3.20	3.20	22.26		36.00	36.00	Pass
11g	6Mbps	1	11	2462	19.61			30.00	30.00	3.20	3.20	22.81		36.00	36.00	Pass
HT20	MCS0	1	1	2412	19.60			30.00	30.00	3.20	3.20	22.80		36.00	36.00	Pass
HT20	MCS0	1	6	2437	19.10			30.00	30.00	3.20	3.20	22.30		36.00	36.00	Pass
HT20	MCS0	1	11	2462	19.77			30.00	30.00	3.20	3.20	22.97		36.00	36.00	Pass
HT40	MCS0	1	3	2422	18.59			30.00	30.00	3.20	3.20	21.79		36.00	36.00	Pass
HT40	MCS0	1	6	2437	18.92			30.00	30.00	3.20	3.20	22.12		36.00	36.00	Pass
HT40	MCS0	1	9	2452	19.15			30.00	30.00	3.20	3.20	22.35		36.00	36.00	Pass
HT20	MCS12	2	1	2412	20.49	18.46	22.60	30.00		3.20		25.80		36.00		Pass
HT20	MCS12	2	6	2437	20.46	18.70	22.68	30.00		3.20		25.88		36.00		Pass
HT20	MCS12	2	11	2462	20.83	18.51	22.83	30.00		3.20		26.03		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	1	1	2412	0.46		14.60		
11b	1Mbps	1	6	2437	0.46		14.62		
11b	1Mbps	1	11	2462	0.46		14.98		
11g	6Mbps	1	1	2412	0.50		10.95		
11g	6Mbps	1	6	2437	0.50		13.28		
HT20	MCS0	1	1	2412	0.51		10.33		
HT20	MCS0	1	6	2437	0.51		13.28		
HT20	MCS0	1	11	2462	0.51		10.34		
HT40	MCS0	1	3	2422	0.58		8.60		
HT40	MCS0	1	6	2437	0.58		11.89		
HT40	MCS0	1	9	2452	0.58		9.09		
HT20	MCS12	2	1	2412	2.23	2.18	11.79	9.98	13.99
HT20	MCS12	2	6	2437	2.23	2.18	11.97	11.76	14.87
HT20	MCS12	2	11	2462	2.23	2.18	12.29	10.11	14.34

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



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Kai-Chun Chu	Temperature :	26~27°C
		Relative Humidity :	53~54%

EUT Information

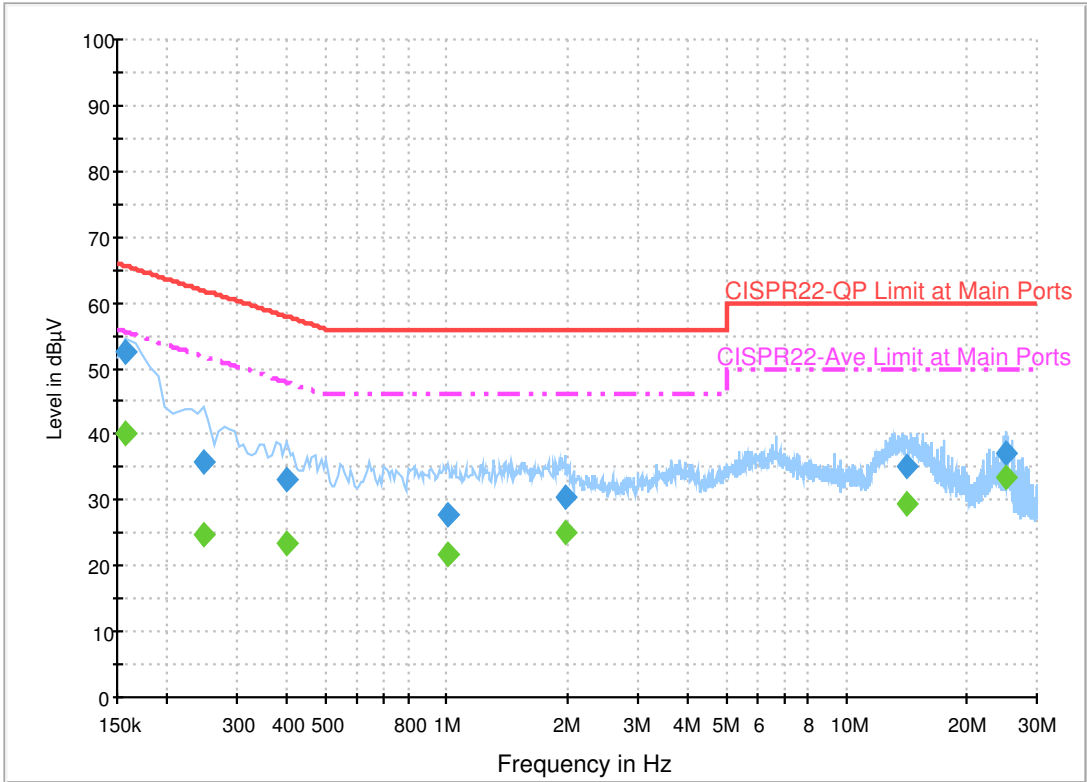
Report NO :762122

Test Mode :Mode 1

Test Voltage :120Vac/60Hz

Phase :Line

ENV216 Auto Test FCC Power Bar - L



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	52.6	Off	L1	19.6	13.0	65.6
0.246000	35.8	Off	L1	19.6	26.1	61.9
0.398000	33.3	Off	L1	19.6	24.6	57.9
1.006000	27.8	Off	L1	19.6	28.2	56.0
1.982000	30.4	Off	L1	19.6	25.6	56.0
14.118000	35.0	Off	L1	20.3	25.0	60.0
25.126000	37.1	Off	L1	20.8	22.9	60.0

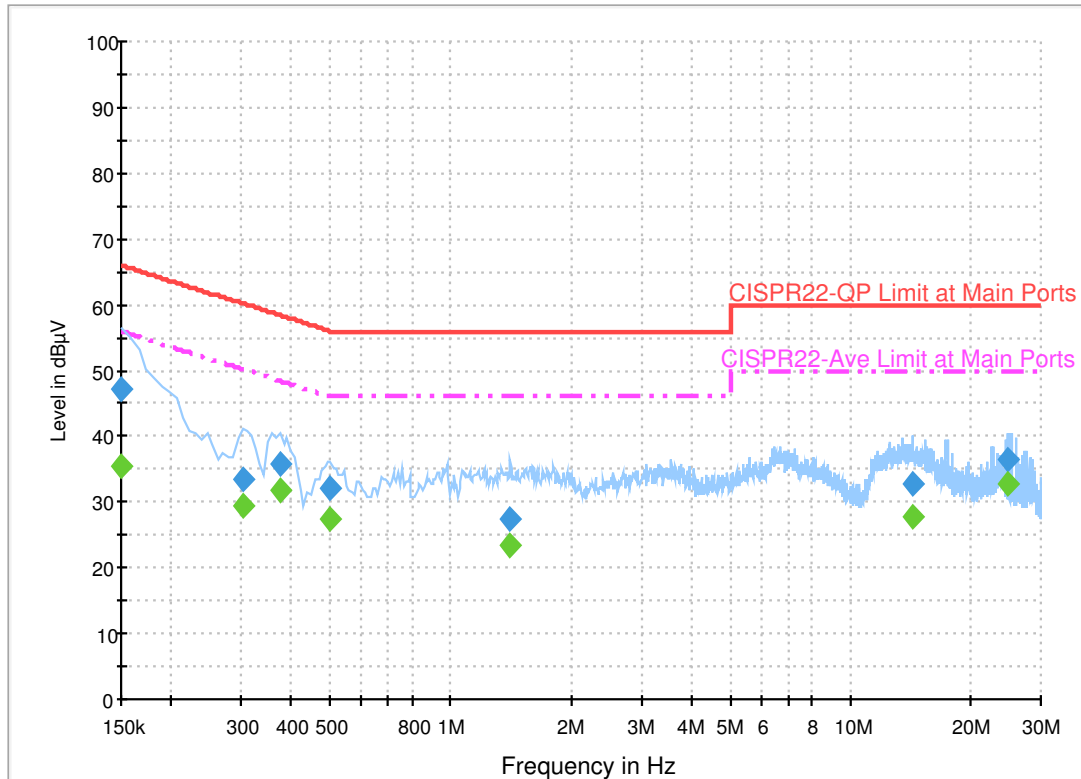
Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	40.0	Off	L1	19.6	15.6	55.6
0.246000	24.6	Off	L1	19.6	27.3	51.9
0.398000	23.5	Off	L1	19.6	24.4	47.9
1.006000	21.7	Off	L1	19.6	24.3	46.0
1.982000	24.9	Off	L1	19.6	21.1	46.0
14.118000	29.5	Off	L1	20.3	20.5	50.0
25.126000	33.6	Off	L1	20.8	16.4	50.0

EUT Information

Report NO : 762122
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

ENV216 Auto Test FCC Power Bar - N



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	47.2	Off	N	19.5	18.8	66.0
0.302000	33.5	Off	N	19.5	26.7	60.2
0.374000	35.8	Off	N	19.5	22.6	58.4
0.502000	32.2	Off	N	19.5	23.8	56.0
1.414000	27.3	Off	N	19.6	28.7	56.0
14.350000	32.8	Off	N	20.3	27.2	60.0
24.750000	36.6	Off	N	20.9	23.4	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	35.4	Off	N	19.5	20.6	56.0
0.302000	29.5	Off	N	19.5	20.7	50.2
0.374000	31.7	Off	N	19.5	16.7	48.4
0.502000	27.6	Off	N	19.5	18.4	46.0
1.414000	23.3	Off	N	19.6	22.7	46.0
14.350000	27.8	Off	N	20.3	22.2	50.0
24.750000	32.8	Off	N	20.9	17.2	50.0



Appendix C. Cabinet Radiation Data

Test Engineer :	Karl Hou, Watt Tseng	Temperature :	22~24°C
		Relative Humidity :	45~47%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

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)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2342.24	50.65	-23.35	74	40.86	26.9	3.92	30.95	101	117	P	H
		2381.09	40.52	-13.48	54	30.56	27.01	3.96	30.93	101	117	A	H
	*	2412	82.42	-	-	72.31	27.12	3.99	30.92	101	117	P	H
	*	2412	79.22	-	-	69.11	27.12	3.99	30.92	101	117	A	H
													H
													H
		2312.1	51.55	-22.45	74	41.92	26.79	3.89	30.97	366	308	P	V
		2378.88	40.53	-13.47	54	30.57	27.01	3.96	30.93	366	308	A	V
	*	2412	79.21	-	-	69.1	27.12	3.99	30.92	366	308	P	V
	*	2412	75.92	-	-	65.81	27.12	3.99	30.92	366	308	A	V
													V
													V
802.11b CH 06 2437MHz		2379.3	50.43	-23.57	74	40.47	27.01	3.96	30.93	105	117	P	H
		2383.22	40.58	-13.42	54	30.62	27.01	3.96	30.93	105	117	A	H
	*	2437	82.1	-	-	71.86	27.23	4	30.91	105	117	P	H
	*	2437	78.86	-	-	68.62	27.23	4	30.91	105	117	A	H
		2483.9	51.36	-22.64	74	40.95	27.34	4.04	30.89	105	117	P	H
		2487.96	41.01	-12.99	54	30.54	27.4	4.04	30.89	105	117	A	H
		2339.82	50.27	-23.73	74	40.48	26.9	3.92	30.95	357	310	P	V
		2352.56	40.48	-13.52	54	30.63	26.96	3.92	30.95	357	310	A	V
	*	2437	80.03	-	-	69.79	27.23	4	30.91	357	310	P	V
	*	2437	76.74	-	-	66.5	27.23	4	30.91	357	310	A	V
		2487.61	51.31	-22.69	74	40.84	27.4	4.04	30.89	357	310	P	V
		2495.52	41.06	-12.94	54	30.58	27.4	4.04	30.88	357	310	A	V



802.11b CH 11 2462MHz	*	2462	82.82	-	-	72.5	27.29	4.01	30.9	104	115	P	H
	*	2462	79.44	-	-	69.12	27.29	4.01	30.9	104	115	A	H
		2486	50.76	-23.24	74	40.35	27.34	4.04	30.89	104	115	P	H
		2498.52	40.98	-13.02	54	30.5	27.4	4.04	30.88	104	115	A	H
													H
													H
	*	2462	80.16	-	-	69.84	27.29	4.01	30.9	392	312	P	V
	*	2462	76.69	-	-	66.37	27.29	4.01	30.9	392	312	A	V
		2499.56	50.92	-23.08	74	40.44	27.4	4.04	30.88	392	312	P	V
		2497.24	41.04	-12.96	54	30.56	27.4	4.04	30.88	392	312	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 (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dBi)	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	38.18	-35.82	74	64.31	31.69	6.46	64.74	100	0	P	H
													H
													H
													H
		4824	38.7	-35.3	74	64.83	31.69	6.46	64.74	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	39.86	-34.14	74	65.81	31.78	6.51	64.7	100	0	P	H
		7311	43.65	-30.35	74	63.17	36.73	8.08	64.82	100	0	P	H
													H
													H
		4874	38.7	-35.3	74	64.65	31.78	6.51	64.7	100	0	P	V
		7311	43.64	-30.36	74	63.16	36.73	8.08	64.82	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	39.23	-34.77	74	65	31.88	6.55	64.66	100	0	P	H
		7386	43.31	-30.69	74	62.65	36.99	8.09	64.86	100	0	P	H
													H
													H
		4924	38.59	-35.41	74	64.36	31.88	6.55	64.66	100	0	P	V
		7386	44.13	-29.87	74	63.47	36.99	8.09	64.86	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 (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dBi)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2384.34	51.5	-22.5	74	41.54	27.01	3.96	30.93	103	118	P	H
		2362.92	40.54	-13.46	54	30.67	26.96	3.94	30.95	103	118	A	H
	*	2412	82.13	-	-	72.02	27.12	3.99	30.92	103	118	P	H
	*	2412	74.27	-	-	64.16	27.12	3.99	30.92	103	118	A	H
													H
													H
		2372.27	50.32	-23.68	74	40.38	27.01	3.94	30.93	370	308	P	V
		2387.91	40.42	-13.58	54	30.4	27.07	3.96	30.93	370	308	A	V
	*	2412	78.89	-	-	68.78	27.12	3.99	30.92	370	308	P	V
	*	2412	71.12	-	-	61.01	27.12	3.99	30.92	370	308	A	V
													V
													V
802.11g CH 06 2437MHz		2352.98	50.74	-23.26	74	40.89	26.96	3.92	30.95	107	116	P	H
		2381.4	40.53	-13.47	54	30.57	27.01	3.96	30.93	107	116	A	H
	*	2437	83.54	-	-	73.3	27.23	4	30.91	107	116	P	H
	*	2437	75.91	-	-	65.67	27.23	4	30.91	107	116	A	H
		2499.79	51.57	-22.43	74	41.09	27.4	4.04	30.88	107	116	P	H
		2498.6	41.13	-12.87	54	30.65	27.4	4.04	30.88	107	116	A	H
		2312.24	50.61	-23.39	74	40.98	26.79	3.89	30.97	400	315	P	V
		2363.48	40.53	-13.47	54	30.66	26.96	3.94	30.95	400	315	A	V
	*	2437	80.66	-	-	70.42	27.23	4	30.91	400	315	P	V
	*	2437	73.01	-	-	62.77	27.23	4	30.91	400	315	A	V
		2488.45	51.33	-22.67	74	40.86	27.4	4.04	30.89	400	315	P	V
		2493.56	41.07	-12.93	54	30.59	27.4	4.04	30.88	400	315	A	V



802.11g CH 11 2462MHz	*	2462	80.3	-	-	69.98	27.29	4.01	30.9	109	118	P	H
	*	2462	72.32	-	-	62	27.29	4.01	30.9	109	118	A	H
		2495.2	50.95	-23.05	74	40.47	27.4	4.04	30.88	109	118	P	H
		2496	41.06	-12.94	54	30.58	27.4	4.04	30.88	109	118	A	H
													H
													H
	*	2462	77.58	-	-	67.26	27.29	4.01	30.9	393	314	P	V
	*	2462	69.76	-	-	59.44	27.29	4.01	30.9	393	314	A	V
		2498.84	51.38	-22.62	74	40.9	27.4	4.04	30.88	393	314	P	V
		2491.8	41.1	-12.9	54	30.62	27.4	4.04	30.88	393	314	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 (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dBi)	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	38.81	-35.19	74	64.94	31.69	6.46	64.74	100	0	P	H
													H
													H
													H
		4824	38.84	-35.16	74	64.97	31.69	6.46	64.74	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	38.27	-35.73	74	64.22	31.78	6.51	64.7	100	0	P	H
		7311	43.07	-30.93	74	62.59	36.73	8.08	64.82	100	0	P	H
													H
													H
		4874	39.48	-34.52	74	65.43	31.78	6.51	64.7	100	0	P	V
		7311	43.73	-30.27	74	63.25	36.73	8.08	64.82	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	38.87	-35.13	74	64.64	31.88	6.55	64.66	100	0	P	H
		7386	43.16	-30.84	74	62.5	36.99	8.09	64.86	100	0	P	H
													H
													H
		4924	39.76	-34.24	74	65.53	31.88	6.55	64.66	100	0	P	V
		7386	43.76	-30.24	74	63.1	36.99	8.09	64.86	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 (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dBi)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2313.36	51.04	-22.96	74	41.4	26.79	3.89	30.96	131	116	P	H
		2371.74	41	-13	54	31.06	27.01	3.94	30.93	131	116	A	H
	*	2422	78.36	-	-	68.18	27.18	3.99	30.91	131	116	P	H
	*	2422	69.19	-	-	59.01	27.18	3.99	30.91	131	116	A	H
		2492.16	51.49	-22.51	74	41.01	27.4	4.04	30.88	131	116	P	H
		2495.17	41.67	-12.33	54	31.19	27.4	4.04	30.88	131	116	A	H
		2379.44	51.23	-22.77	74	41.27	27.01	3.96	30.93	398	308	P	V
		2371.6	40.87	-13.13	54	30.93	27.01	3.94	30.93	398	308	A	V
	*	2422	74.63	-	-	64.45	27.18	3.99	30.91	398	308	P	V
	*	2422	66.38	-	-	56.2	27.18	3.99	30.91	398	308	A	V
		2496.92	51.48	-22.52	74	41	27.4	4.04	30.88	398	308	P	V
		2484.46	41.4	-12.6	54	30.99	27.34	4.04	30.89	398	308	A	V
802.11n HT40 CH 06 2437MHz		2312.1	50.85	-23.15	74	41.22	26.79	3.89	30.97	100	116	P	H
		2383.92	40.87	-13.13	54	30.91	27.01	3.96	30.93	100	116	A	H
	*	2437	80.43	-	-	70.19	27.23	4	30.91	100	116	P	H
	*	2437	72.11	-	-	61.87	27.23	4	30.91	100	116	A	H
		2498.81	51.31	-22.69	74	40.83	27.4	4.04	30.88	100	116	P	H
		2486.98	41.49	-12.51	54	31.08	27.34	4.04	30.89	100	116	A	H
		2355.22	50.74	-23.26	74	40.89	26.96	3.92	30.95	348	319	P	V
		2346.82	40.82	-13.18	54	31.03	26.9	3.92	30.95	348	319	A	V
	*	2437	76.72	-	-	66.48	27.23	4	30.91	348	319	P	V
	*	2437	68.51	-	-	58.27	27.23	4	30.91	348	319	A	V
		2499.93	51.18	-22.82	74	40.7	27.4	4.04	30.88	348	319	P	V
		2498.67	41.37	-12.63	54	30.89	27.4	4.04	30.88	348	319	A	V



802.11n HT40 CH 09 2452MHz		2355.92	50.41	-23.59	74	40.56	26.96	3.92	30.95	106	115	P	H
		2374.12	40.9	-13.1	54	30.96	27.01	3.94	30.93	106	115	A	H
	*	2452	78.58	-	-	68.32	27.23	4.01	30.9	106	115	P	H
	*	2452	70.01	-	-	59.75	27.23	4.01	30.9	106	115	A	H
		2492.58	50.72	-23.28	74	40.24	27.4	4.04	30.88	106	115	P	H
		2487.68	41.38	-12.62	54	30.91	27.4	4.04	30.89	106	115	A	H
		2342.76	50.88	-23.12	74	41.09	26.9	3.92	30.95	386	317	P	V
		2384.06	40.99	-13.01	54	31.03	27.01	3.96	30.93	386	317	A	V
	*	2452	75.58	-	-	65.32	27.23	4.01	30.9	386	317	P	V
	*	2452	66.95	-	-	56.69	27.23	4.01	30.9	386	317	A	V
		2495.03	50.8	-23.2	74	40.32	27.4	4.04	30.88	386	317	P	V
		2487.89	41.59	-12.41	54	31.12	27.4	4.04	30.89	386	317	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 (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dBi)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		4844	39.64	-34.36	74	65.7	31.72	6.48	64.72	100	0	P	H
		7266	44.2	-29.8	74	63.79	36.63	8.08	64.81	100	0	P	H
													H
													H
		4844	38.08	-35.92	74	64.14	31.72	6.48	64.72	100	0	P	V
		7266	43.85	-30.15	74	63.44	36.63	8.08	64.81	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4874	38.54	-35.46	74	64.49	31.78	6.51	64.7	100	0	P	H
		7311	43.39	-30.61	74	62.91	36.73	8.08	64.82	100	0	P	H
													H
													H
		4874	38.85	-35.15	74	64.8	31.78	6.51	64.7	100	0	P	V
		7311	42.66	-31.34	74	62.18	36.73	8.08	64.82	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4904	38.29	-35.71	74	64.13	31.84	6.53	64.67	100	0	P	H
		7356	44.03	-29.97	74	63.43	36.89	8.09	64.84	100	0	P	H
													H
													H
		4904	38.67	-35.33	74	64.51	31.84	6.53	64.67	100	0	P	V
		7356	44.73	-29.27	74	64.13	36.89	8.09	64.84	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT40 LF		78.06	25.96	-14.04	40	44.54	13.18	0.74	32.59	-	-	P	H
		182.01	30.57	-12.93	43.5	46.76	15.06	1.06	32.52	-	-	P	H
		285.96	40.82	-5.18	46	52.88	18.98	1.33	32.55	100	0	P	H
		337.8	36.5	-9.5	46	47.49	20.06	1.44	32.56	-	-	P	H
		555.5	31.44	-14.56	46	36.14	25.91	1.85	32.64	-	-	P	H
		799.8	33.71	-12.29	46	35.4	28.21	2.24	32.32	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
		34.05	36.77	-3.23	40	46.53	22.36	0.46	32.59	100	0	P	V
		117.75	23	-20.5	43.5	37.35	17.3	0.86	32.58	-	-	P	V
		266.52	35.14	-10.86	46	46.58	19.62	1.29	32.54	-	-	P	V
		332.2	28.4	-17.6	46	39.5	19.95	1.44	32.56	-	-	P	V
		559.7	28.79	-17.21	46	33.13	26.27	1.85	32.64	-	-	P	V
		952.4	32.35	-13.65	46	30.04	30.92	2.44	31.3	-	-	P	V
													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 (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dBi)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2386.13	52.92	-21.08	74	42.9	27.07	3.96	30.93	253	208	P	H
		2388.54	42.65	-11.35	54	32.63	27.07	3.96	30.93	253	208	A	H
	*	2412	84.48	-	-	74.37	27.12	3.99	30.92	253	208	P	H
	*	2412	76.54	-	-	66.43	27.12	3.99	30.92	253	208	A	H
													H
													H
		2389.17	51.77	-22.23	74	41.75	27.07	3.96	30.93	184	39	P	V
		2385.29	41.93	-12.07	54	31.97	27.01	3.96	30.93	184	39	A	V
	*	2412	80.59	-	-	70.48	27.12	3.99	30.92	184	39	P	V
	*	2412	73.63	-	-	63.52	27.12	3.99	30.92	184	39	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2368.52	50.96	-23.04	74	41.02	27.01	3.94	30.93	287	216	P	H
		2389.1	41.65	-12.35	54	31.63	27.07	3.96	30.93	287	216	A	H
	*	2437	85.66	-	-	75.42	27.23	4	30.91	287	216	P	H
	*	2437	77.3	-	-	67.06	27.23	4	30.91	287	216	A	H
		2486.28	50.97	-23.03	74	40.56	27.34	4.04	30.89	287	216	P	H
		2499.51	42.13	-11.87	54	31.65	27.4	4.04	30.88	287	216	A	H
		2319.52	50.25	-23.75	74	40.55	26.85	3.89	30.96	205	42	P	V
		2377.34	41.79	-12.21	54	31.83	27.01	3.96	30.93	205	42	A	V
	*	2437	80.62	-	-	70.38	27.23	4	30.91	205	42	P	V
	*	2437	73.13	-	-	62.89	27.23	4	30.91	205	42	A	V
		2494.12	52.15	-21.85	74	41.67	27.4	4.04	30.88	205	42	P	V
		2498.53	42.07	-11.93	54	31.59	27.4	4.04	30.88	205	42	A	V



802.11n HT20 CH 11 2462MHz	*	2462	85.4	-	-	75.08	27.29	4.01	30.9	280	213	P	H
	*	2462	77.22	-	-	66.9	27.29	4.01	30.9	280	213	A	H
		2484.16	50.49	-23.51	74	40.08	27.34	4.04	30.89	280	213	P	H
		2494.04	42.29	-11.71	54	31.81	27.4	4.04	30.88	280	213	A	H
													H
													H
	*	2462	81.23	-	-	70.91	27.29	4.01	30.9	374	76	P	V
	*	2462	72.83	-	-	62.51	27.29	4.01	30.9	374	76	A	V
		2498.72	50.76	-23.24	74	40.28	27.4	4.04	30.88	374	76	P	V
		2499.76	42.24	-11.76	54	31.76	27.4	4.04	30.88	374	76	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 (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dBi)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	38.89	-35.11	74	65.02	31.69	6.46	64.74	100	0	P	H
													H
													H
													H
		4824	38.56	-35.44	74	64.69	31.69	6.46	64.74	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	39.99	-34.01	74	65.94	31.78	6.51	64.7	100	0	P	H
		7311	43.67	-30.33	74	63.19	36.73	8.08	64.82	100	0	P	H
													H
													H
		4874	40.26	-33.74	74	66.21	31.78	6.51	64.7	100	0	P	V
		7311	44.05	-29.95	74	63.57	36.73	8.08	64.82	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	39.93	-34.07	74	65.7	31.88	6.55	64.66	100	0	P	H
		7386	43.77	-30.23	74	63.11	36.99	8.09	64.86	100	0	P	H
													H
													H
		4924	38.91	-35.09	74	64.68	31.88	6.55	64.66	100	0	P	V
		7386	44.55	-29.45	74	63.89	36.99	8.09	64.86	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		80.76	26.19	-13.81	40	44.46	13.49	0.74	32.59	-	-	P	H
		195.78	29.93	-13.57	43.5	46.08	15.05	1.11	32.5	-	-	P	H
		264.09	36.68	-9.32	46	47.96	19.78	1.29	32.54	100	0	P	H
		338.5	33.58	-12.42	46	44.54	20.09	1.44	32.56	-	-	P	H
		479.9	29.56	-16.44	46	36.59	23.75	1.74	32.62	-	-	P	H
		939.1	32.11	-13.89	46	30.48	30.37	2.44	31.41	-	-	P	H
													H
													H
													H
													H
													H
													H
		36.48	36.23	-3.77	40	47.44	20.9	0.46	32.58	100	0	P	V
		121.26	24.92	-18.58	43.5	39.13	17.45	0.86	32.58	-	-	P	V
		264.09	35.66	-10.34	46	46.94	19.78	1.29	32.54	-	-	P	V
		390.3	31.88	-14.12	46	41.26	21.55	1.55	32.56	-	-	P	V
		565.3	31.26	-14.74	46	35.72	26.13	1.88	32.64	-	-	P	V
		951	32.01	-13.99	46	29.79	30.84	2.44	31.31	-	-	P	V
													V
													V
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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

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

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

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



Appendix D. Cabinet Radiation Plots

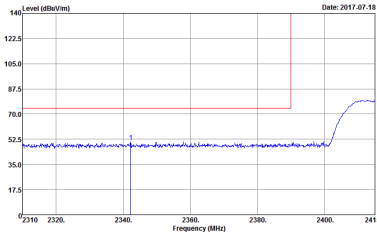
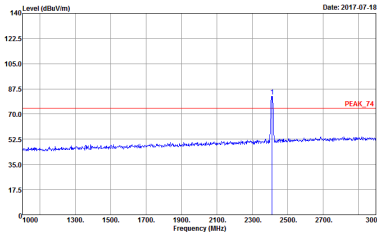
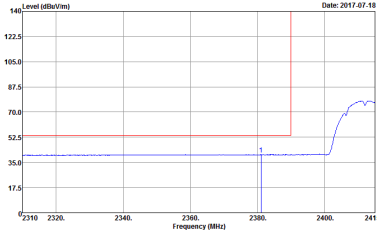
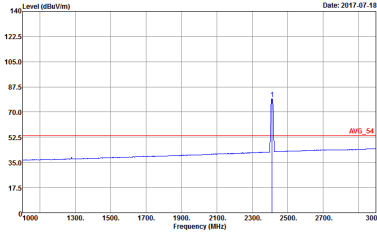
Test Engineer :	Karl Hou, Watt Tseng	Temperature :	22~24°C
		Relative Humidity :	45~47%

Note symbol

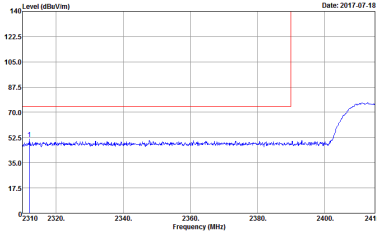
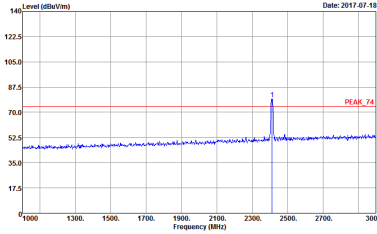
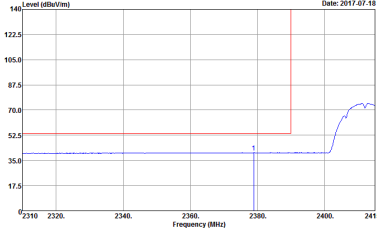
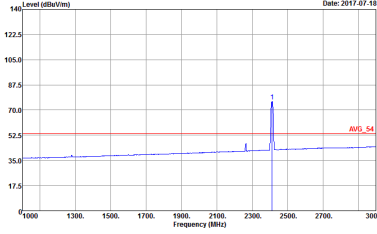
-L	Low channel location
-R	High channel location



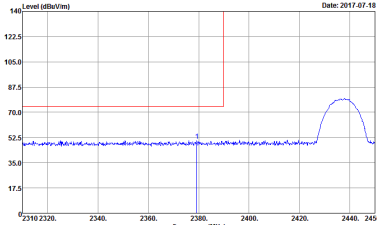
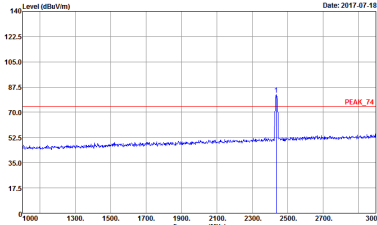
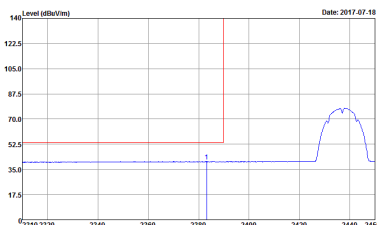
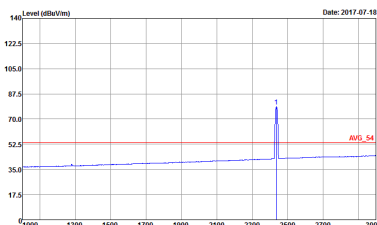
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 5	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 5
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 5	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 5

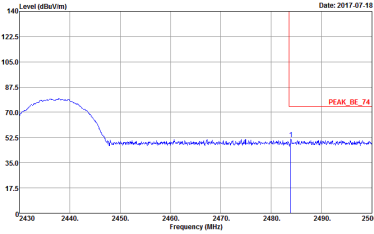
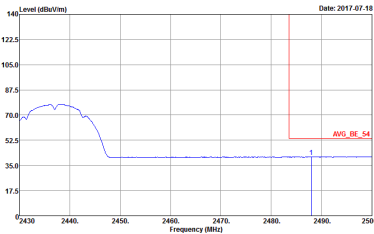


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 5	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 5
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 5	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 5

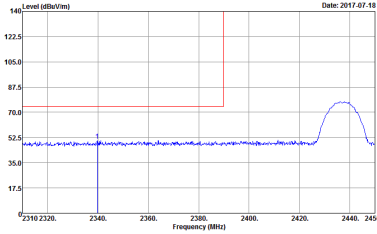
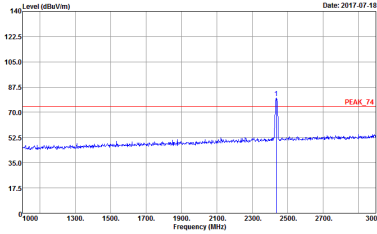
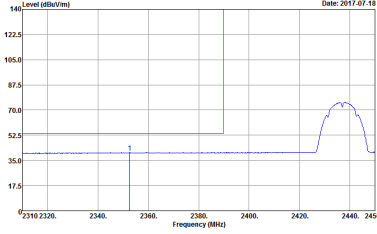
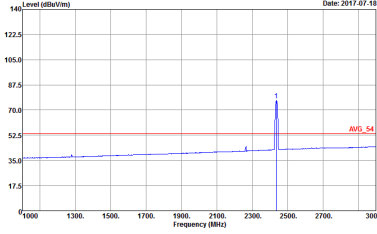


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 6	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 6
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 6	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 6

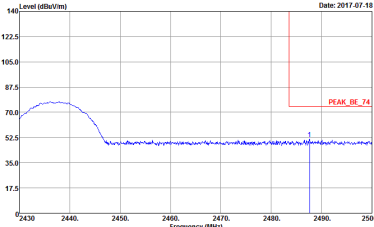
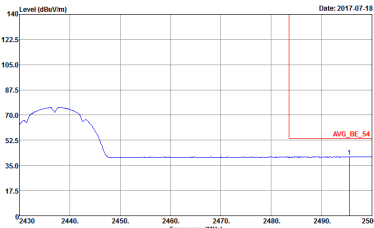


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HV Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 6	Left blank
Avg.	 Site : 03CH15-HV Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 6	Left blank

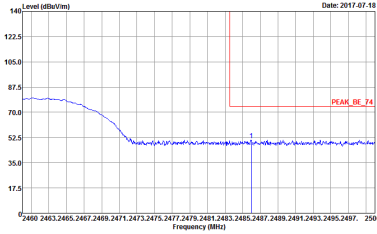
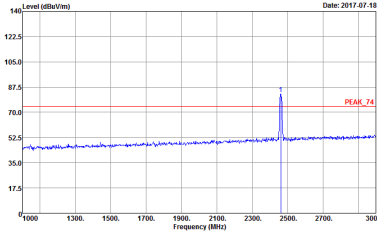
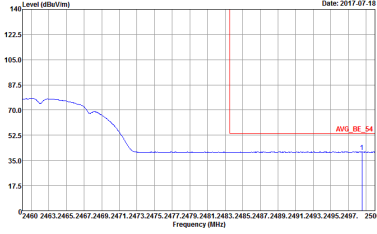
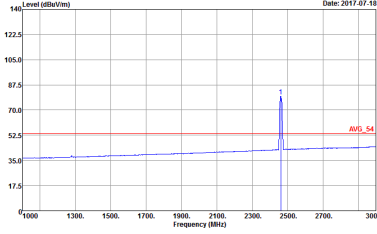


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 6	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 6
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 6	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 6

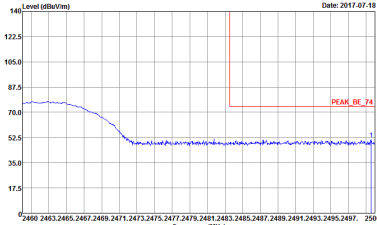
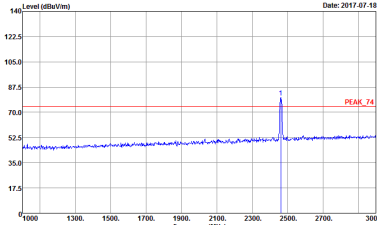
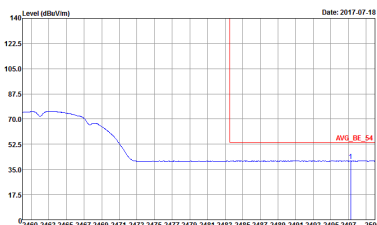
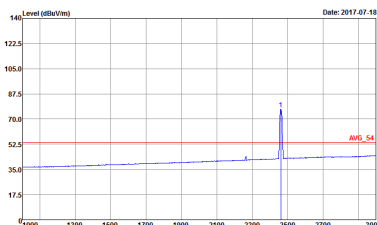


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 6	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 6	Left blank

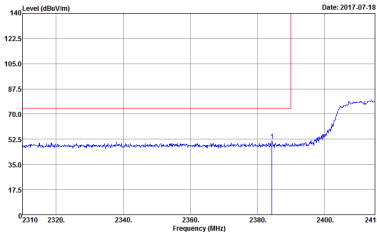
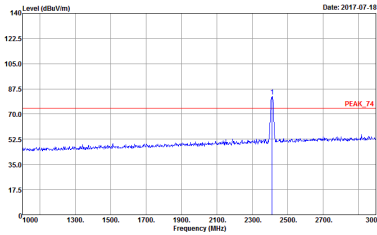
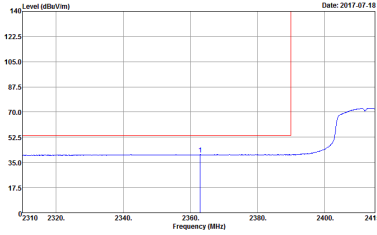
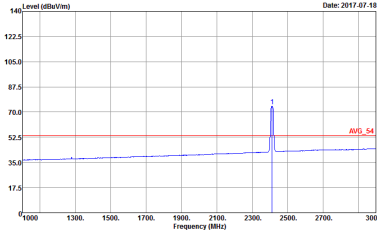


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 7	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 7
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 762122 Mode : 7	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 762122 Mode : 7



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 7	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 7
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 762122 Mode : 7	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 762122 Mode : 7

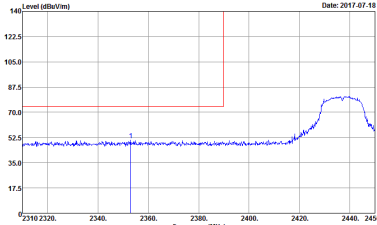
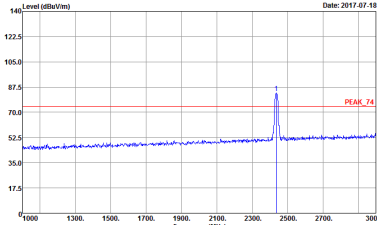
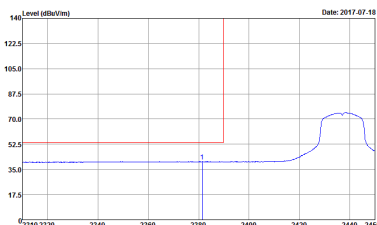
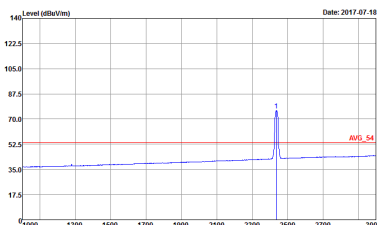
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : B	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : B
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : B	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : B

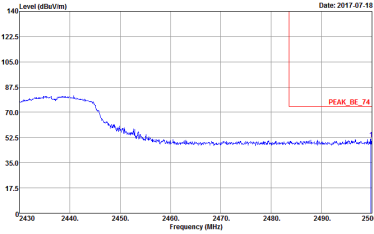
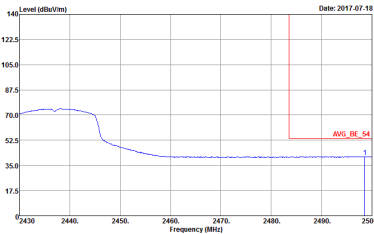


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 8	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 8
Avg.	Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 8	Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 8

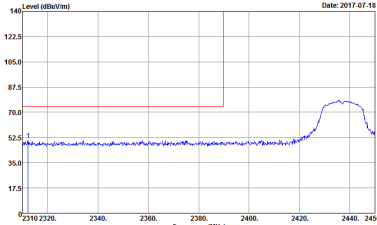
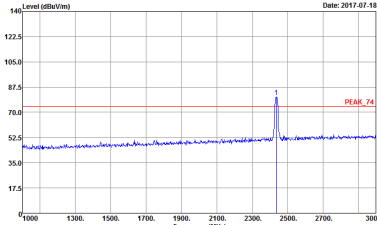
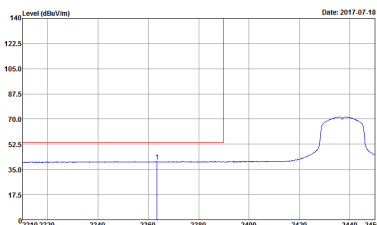
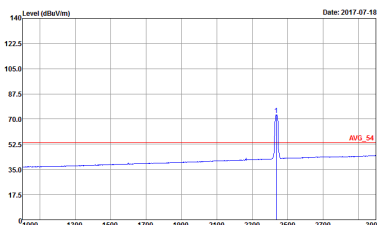


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 9	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 9
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 9	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 9

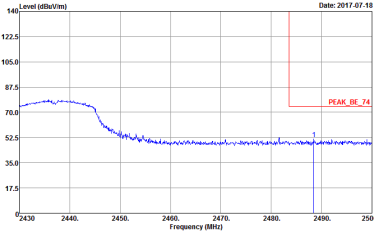
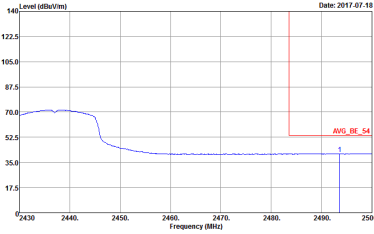


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 9	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 9	Left blank

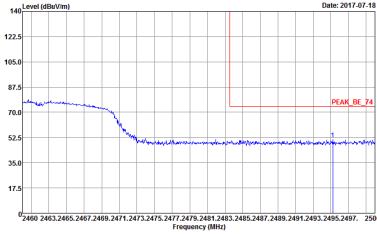
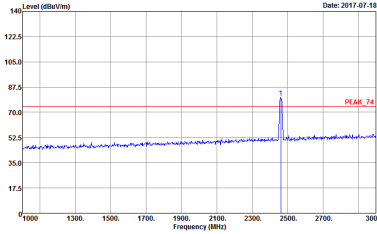
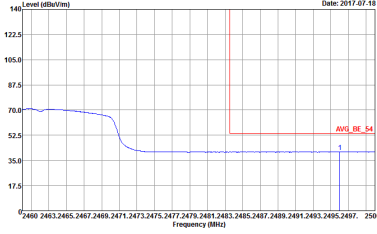
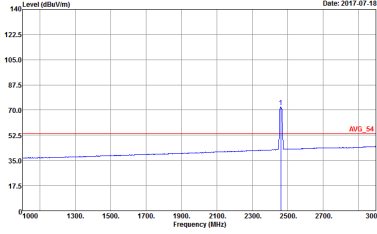


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 9	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 9
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 9	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 9

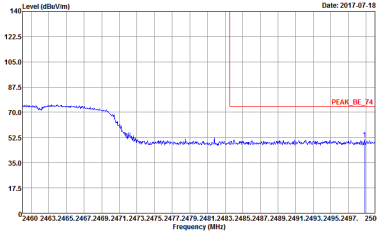
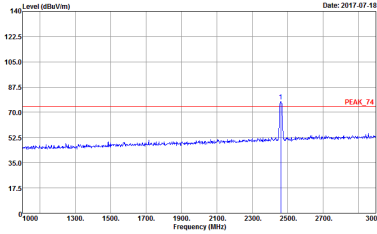
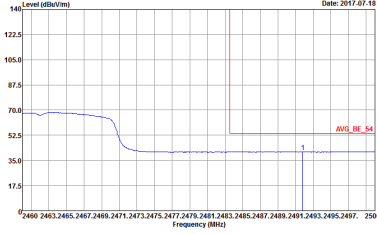
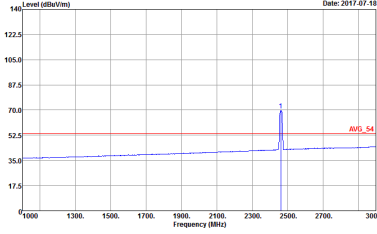


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 9	Left Blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 9	Left Blank

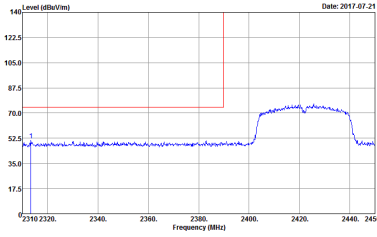
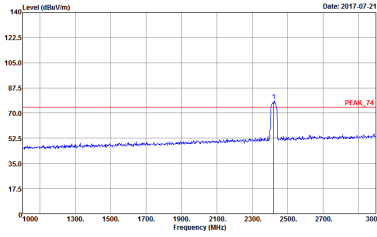
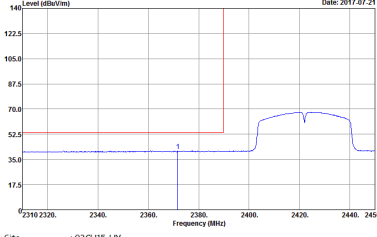
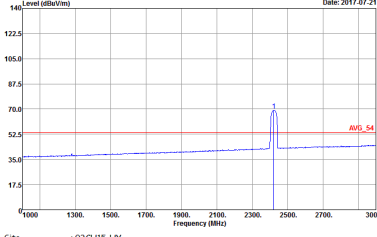


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 10	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 10
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 762122 Mode : 10	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 762122 Mode : 10

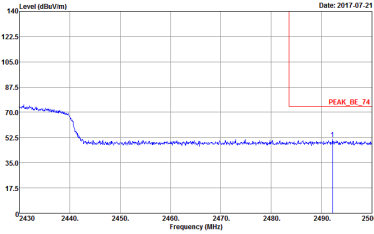
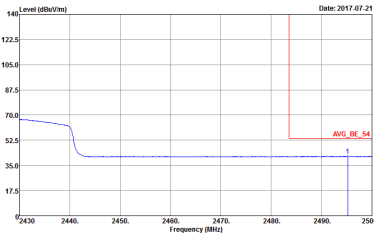


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 10	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 10
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 10	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 10

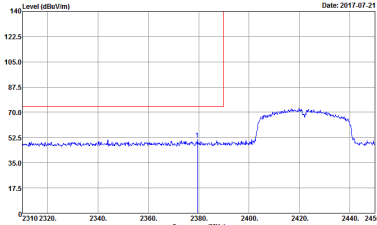
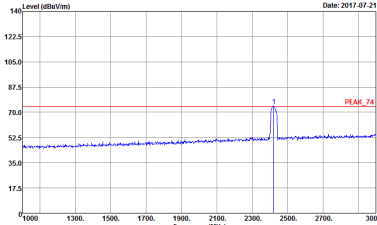
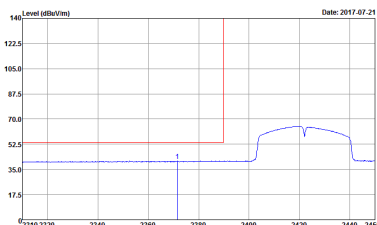
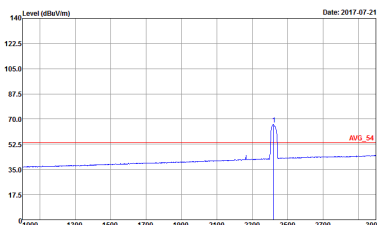
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 11	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 11
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 11	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 11

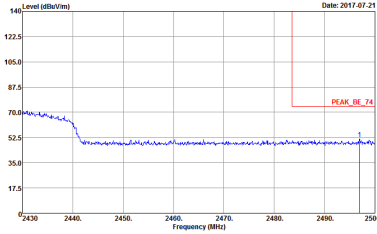
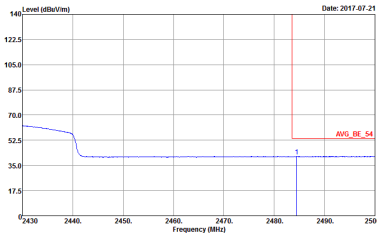


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 11	Left Blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 11	Left Blank

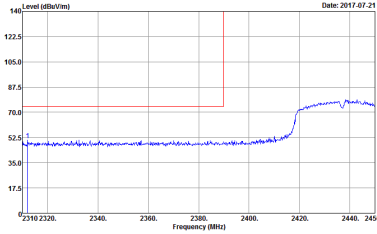
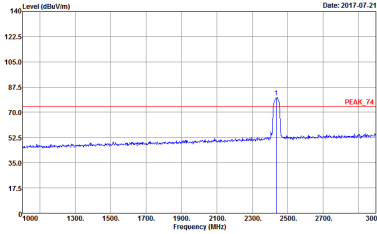
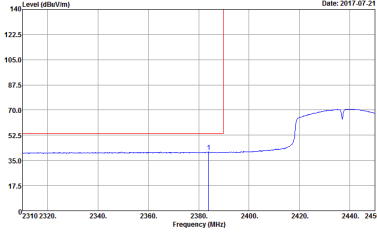
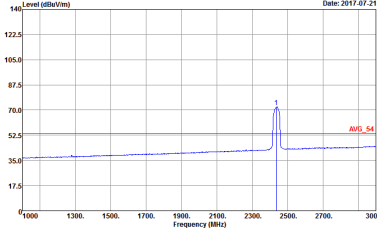


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 11	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 11
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 11	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 11

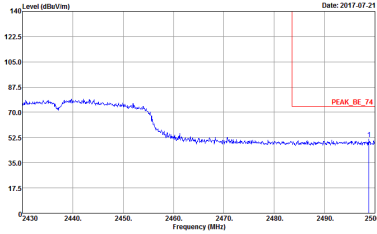
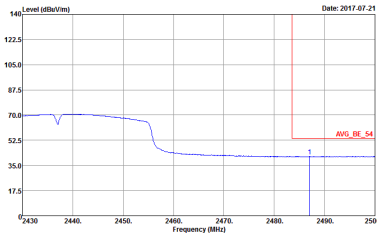


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 11	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 11	Left blank

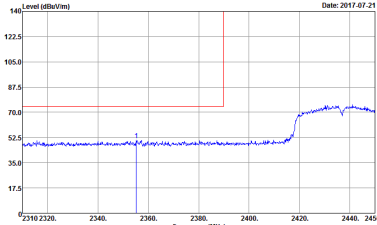
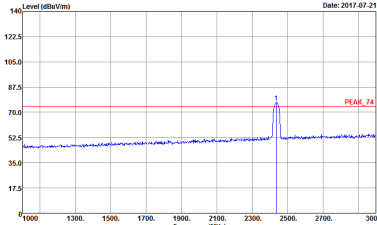
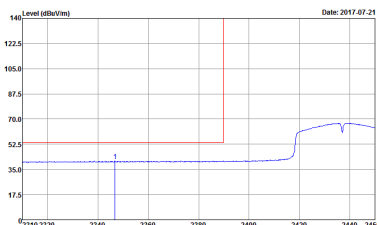
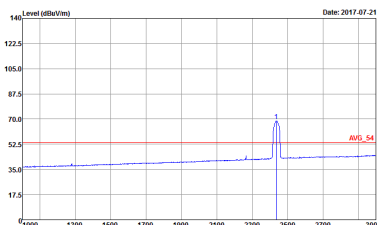


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 12	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 12
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 12	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 12

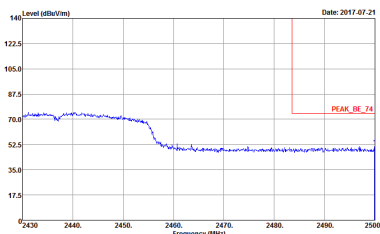
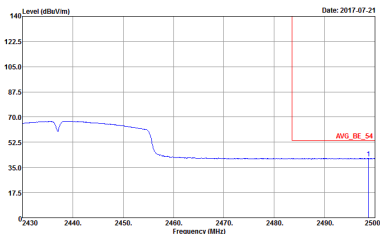


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HV Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 752122 Mode : 12	Left blank
Avg.	 Site : 03CH15-HV Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 752122 Mode : 12	Left blank

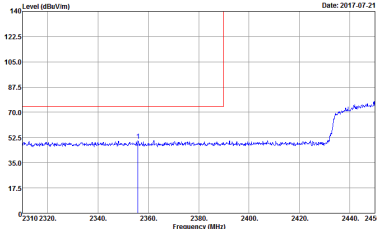
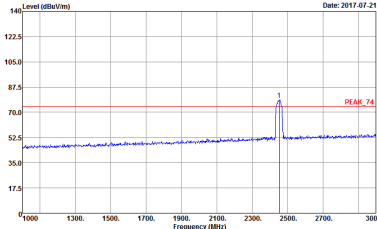
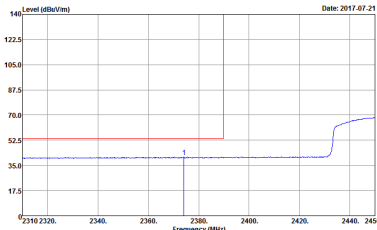
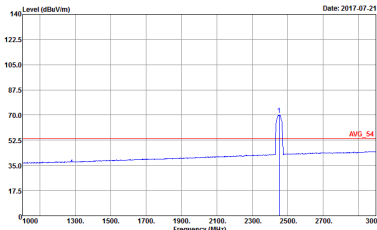


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752122 Date: 2017-07-21	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752122 Date: 2017-07-21
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Mode : 752122 Date: 2017-07-21	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Mode : 752122 Date: 2017-07-21

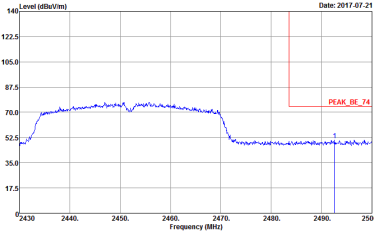
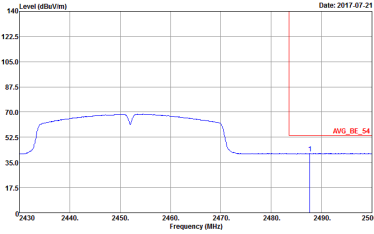


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 752122 Mode : 12	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 752122 Mode : 12	Left blank

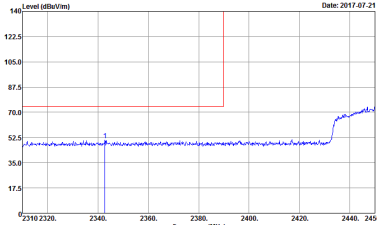
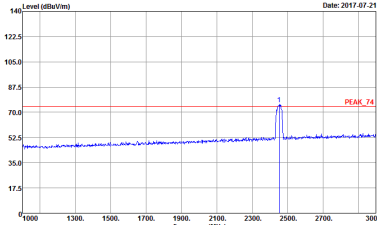
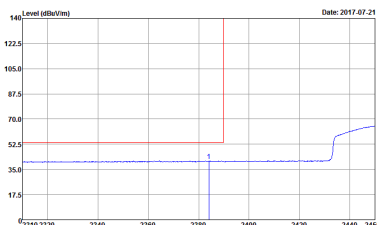
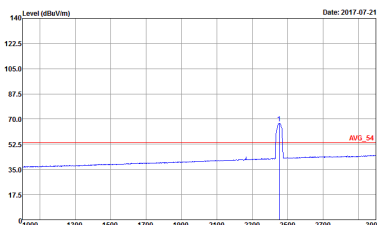


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 13	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 13
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 13	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 13

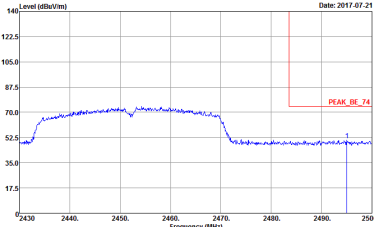
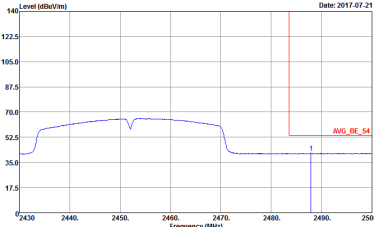


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 13	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 13	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 762122 Date: 2017-07-21	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 762122 Date: 2017-07-21
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 762122 Date: 2017-07-21	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 762122 Date: 2017-07-21

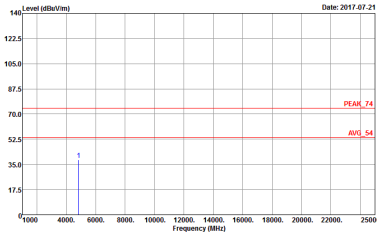
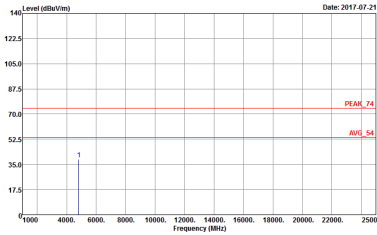


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 13	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 13	Left blank

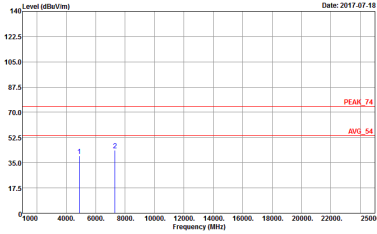
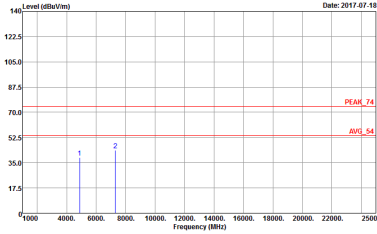


2.4GHz 2400~2483.5MHz

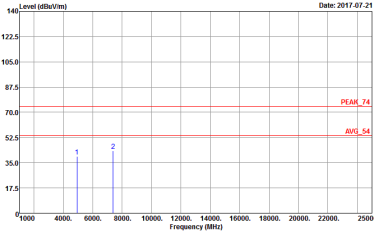
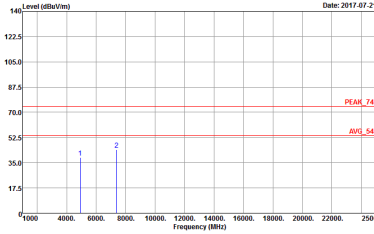
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : S	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : S



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : -6	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : -6

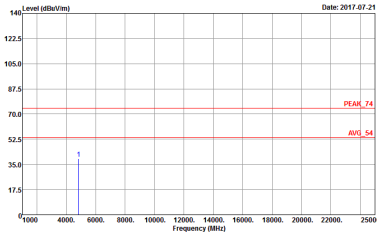
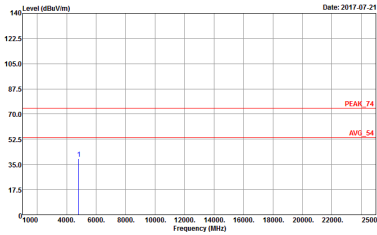


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 7	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 7



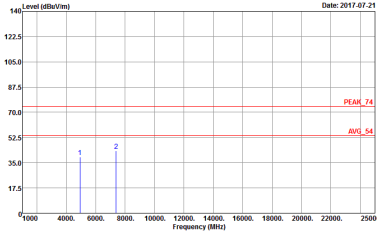
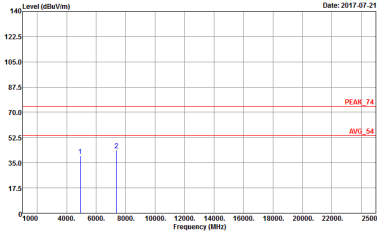
2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

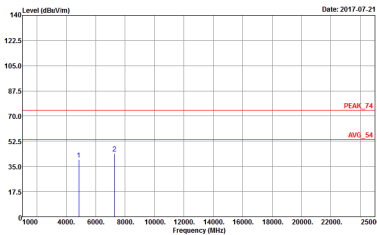
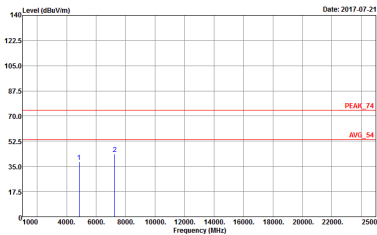
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : B	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : B



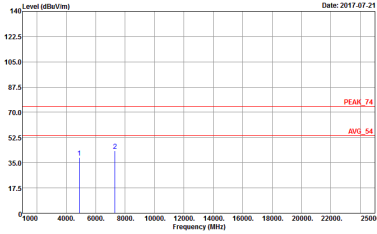
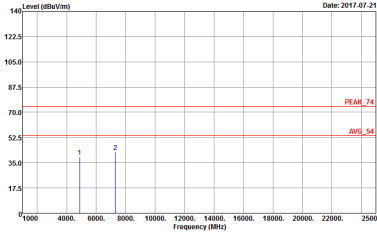
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 9	Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 9

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HV Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 10	 Site : 03CH15-HV Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 10

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.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 11	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 11

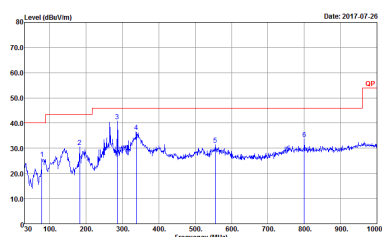
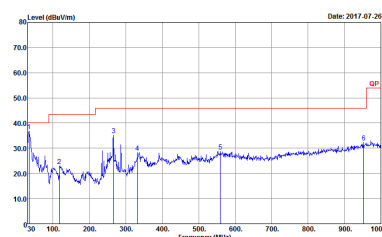


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HV Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 12	 Site : 03CH15-HV Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 12



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HV Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 13	Site : 03CH15-HV Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 13

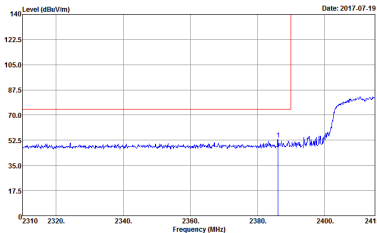
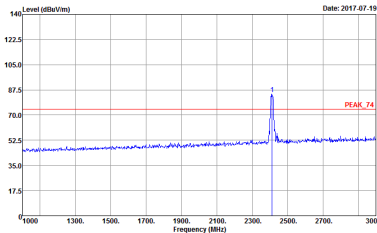
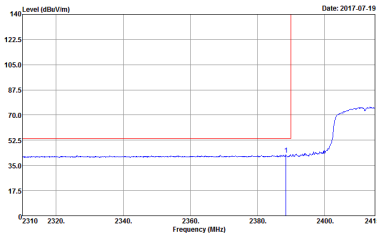
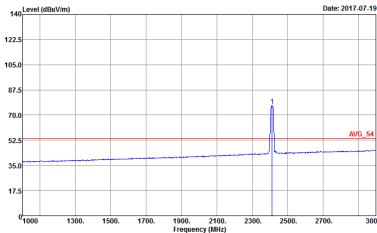
Emission below 1GHz
2.4GHz WIFI 802.11g for Ant. 1 (LF)

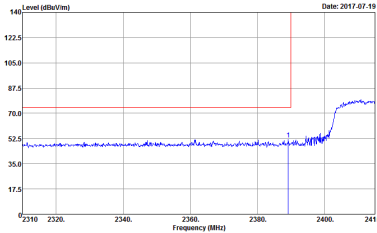
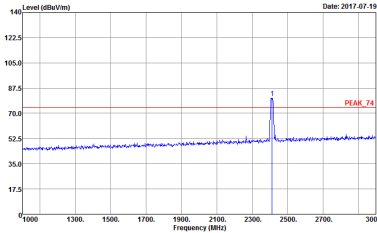
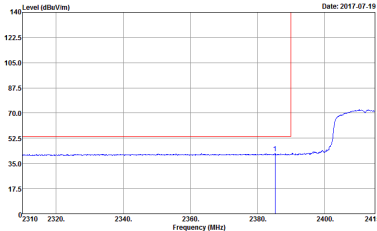
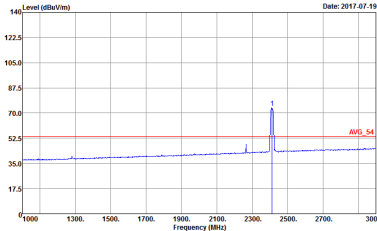
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT40 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 HORIZONTAL Detector : Peak Project : 762122 Mode : 14	 Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 VERTICAL Detector : Peak Project : 762122 Mode : 14



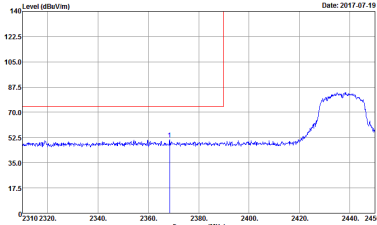
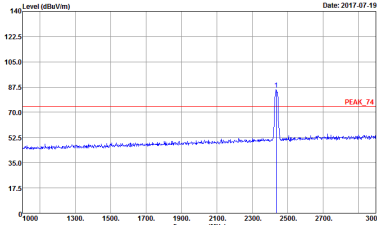
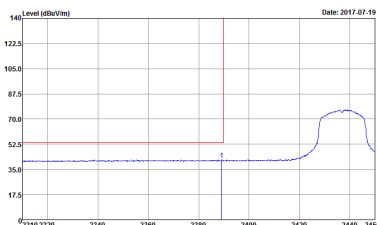
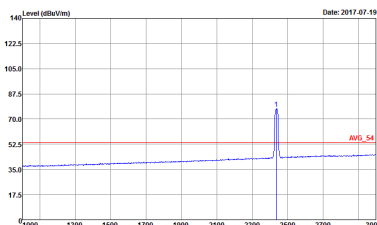
2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

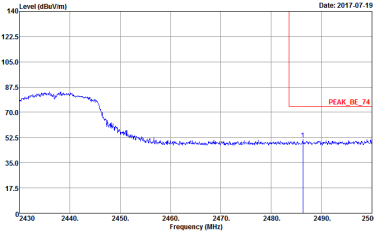
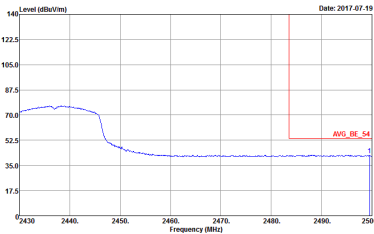
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 15	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 15
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 15	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 15

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_8E_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 15	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 15
Avg.	 Site : 03CH15-HY Condition : AVG_8E_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 15	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 15

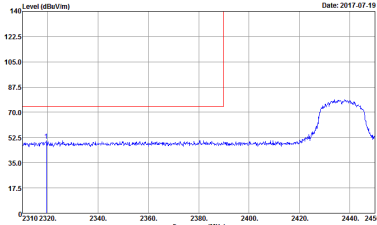
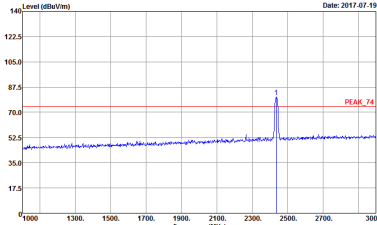
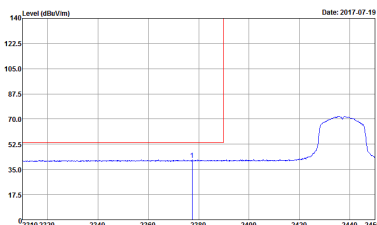
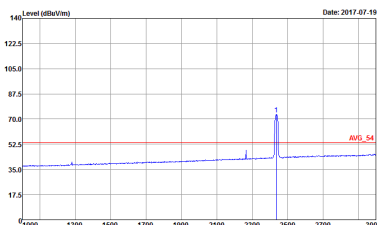


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 16	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 16
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 16	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 16

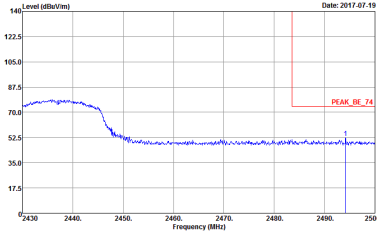
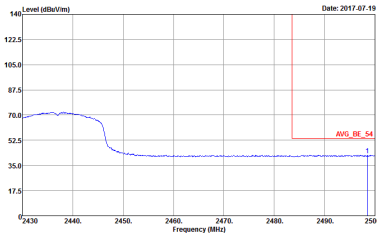


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HV Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 16	Left blank
Avg.	 Site : 03CH15-HV Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 16	Left blank

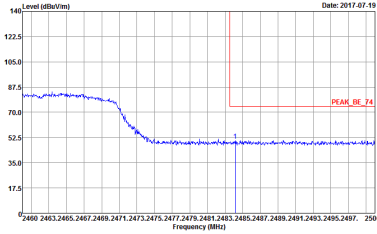
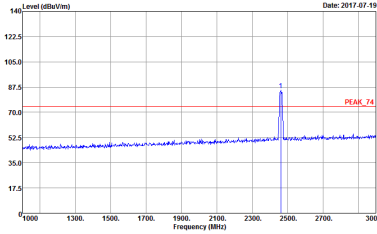
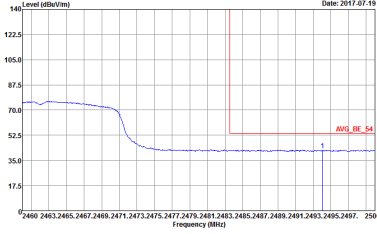
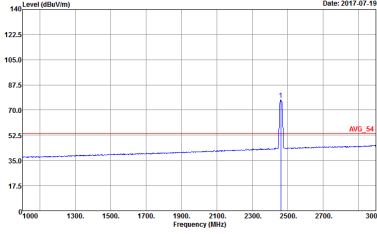


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 16	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 16
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 16	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 16

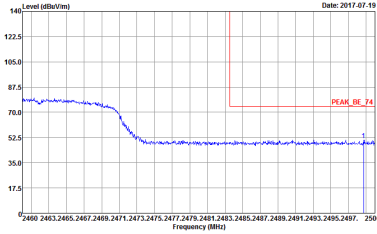
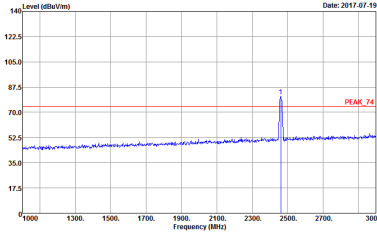
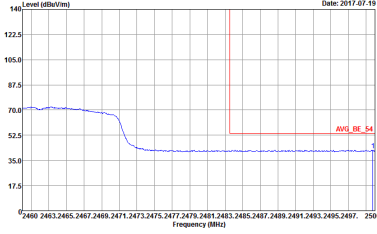
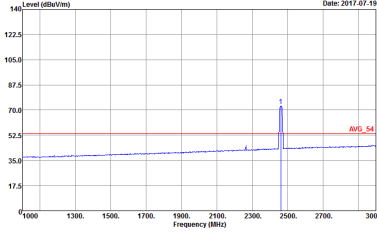


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 16	Left Blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 16	Left Blank



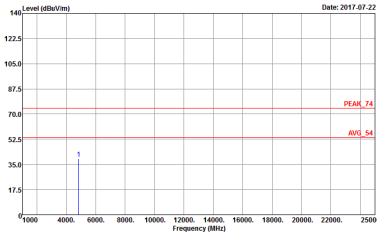
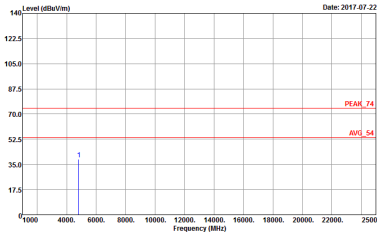
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 17	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 17
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 17	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 17



WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 17	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 17
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 17	 Site : 03CH15-HY Condition : AVG_54 3m 91200_15_1620 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 762122 Mode : 17



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

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : IS	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : IS

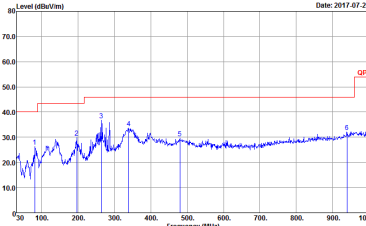
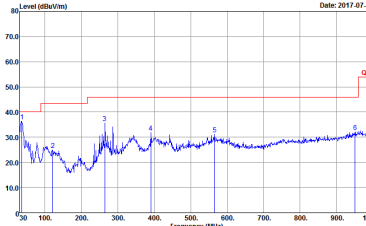


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HV Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 16	Site : 03CH15-HV Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 16



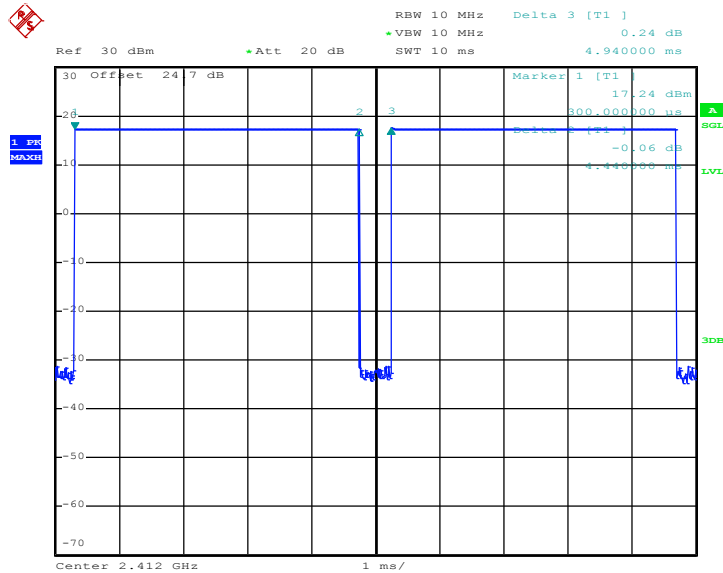
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH15-HV Condition : PEAK_74 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 762122 Mode : 17	Site : 03CH15-HV Condition : PEAK_74 3m 91200_15_1620 VERTICAL Detector : Peak Project : 762122 Mode : 17

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

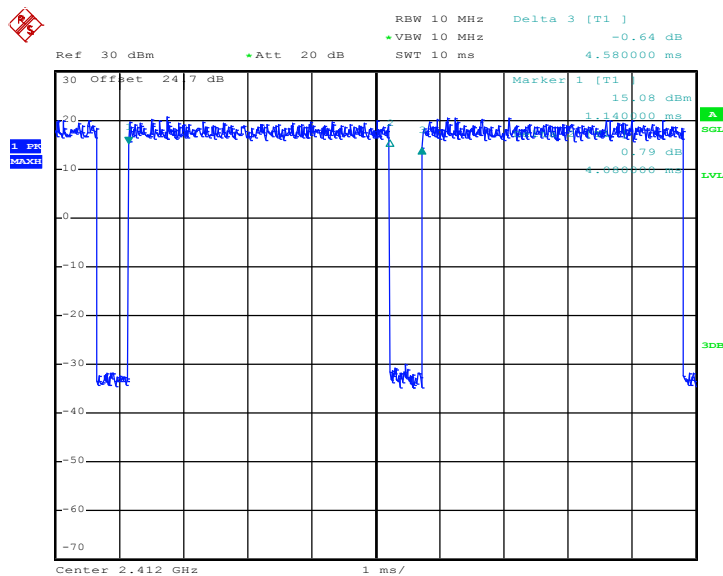
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT20 LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 HORIZONTAL Detector : Peak Project : 762122 Mode : 1B	 Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 VERTICAL Detector : Peak Project : 762122 Mode : 1B

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11b	89.88	4416	0.23	1kHz
1	802.11g	88.65	4060	0.25	
1	2.4GHz 802.11n HT20	89.01	3400	0.29	
1	2.4GHz 802.11n HT40	87.50	2184	0.46	
1+2	2.4GHz 802.11n HT20 for Ant. 1	59.90	460	2.17	3kHz
1+2	2.4GHz 802.11n HT20 for Ant. 2	60.53	460	2.17	

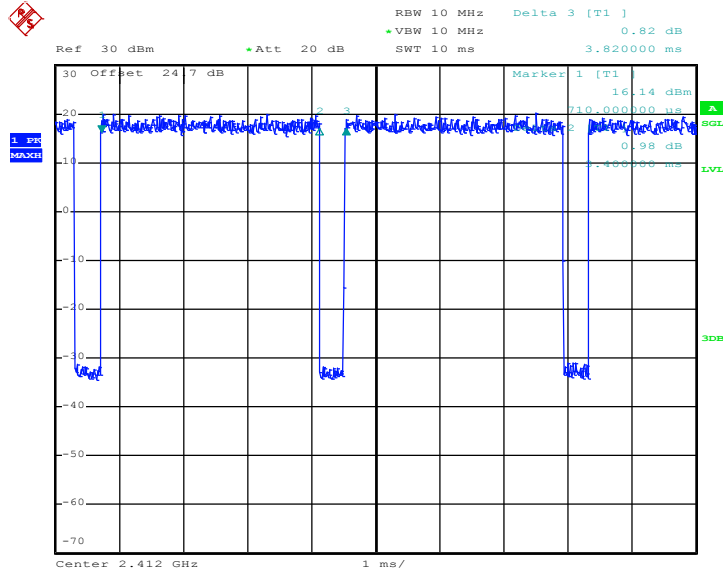
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802.11g


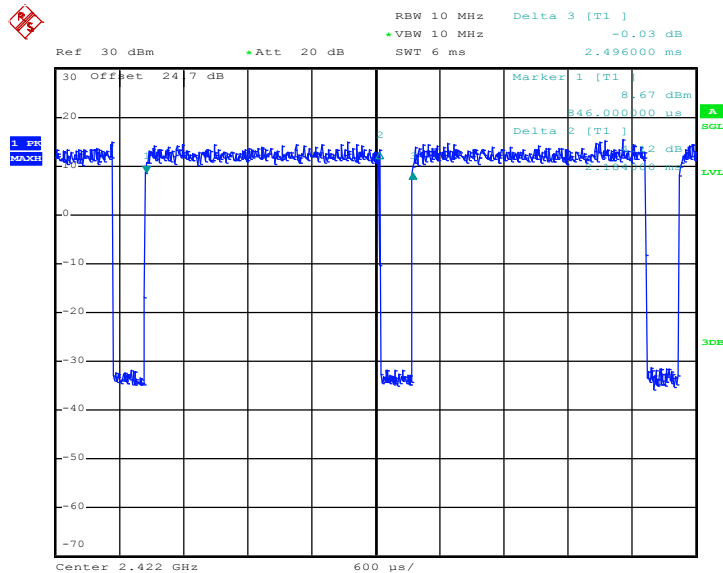
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802.11n HT20

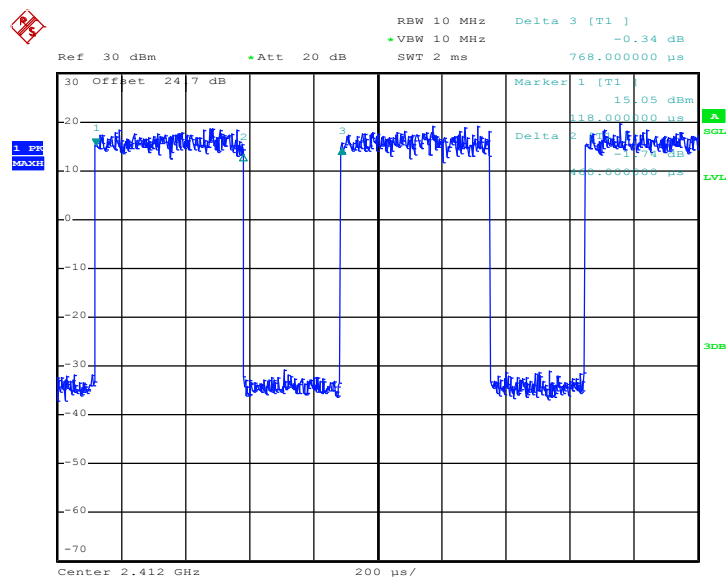


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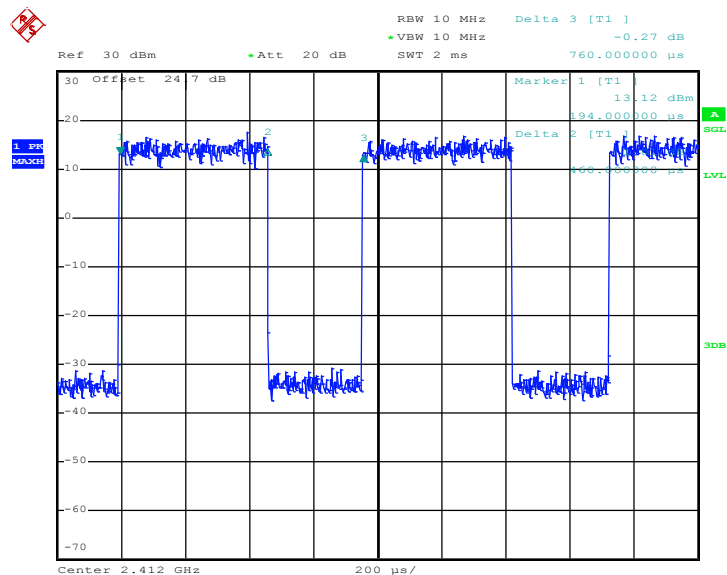
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MIMO <Ant. 2>
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Date: 12.JUL.2017 17:04:56