



FCC TEST REPORT (15.247)

REPORT NO.: DRE-12NO0102VNTY-A3

MODEL NO.: iwi666, iwi666-B

RECEIVED: Dec. 11, 2012

TESTED: Dec. 12-Dec. 19, 2012

ISSUED: Jan. 28, 2013

APPLICANT: Shanghai DareGlobal Technologies Co., Ltd.

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ISSUED BY: BUREAU VERITAS

ADT (Shanghai) Corporation

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1. CERTIFICATION

PRODUCT: Linking mobile mate

MODEL: iwi666, iwi666-B

BRAND: NETGEAR

APPLICANT: Shanghai DareGlobal Technologies Co., Ltd.

TEST SAMPLE: ENGINEERING SAMPLE

TESTED: Dec. 12-Dec. 19, 2012

STANDARDS: FCC Part 15, Subpart C (Section 15.247)

ANSI C63.4-2003

KDB 558074 D01 DTS Meas Guidance v02

The above equipment (Model: HSS101) has been tested by **Bureau Veritas Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

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2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -28.10dB at 0.15000MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -8.72dB at 30.00MHz
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2 Ed 1.0.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

This lab's measurement uncertainty U_{Lab} , is low than U_{Cispr} , Table 1 – Values of U_{Cispr} of CISPR 16-4-2 Ed. 1.0, therefore compliance is deemed to occur if no measured disturbance exceeds the disturbance limit.

Measurement	Value
Conducted emissions	2.55 dB
Conducted emissions at telecom port	2.6180 dB
Radiated emissions	3.99 dB



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Linking mobile mate
MODEL NO.	iwi666, iwi666-B
FCC ID	RS3IWI666
POWER SUPPLY	100-240VAC 50/60Hz
MODULATION TYPE	DSSS: DBPSK and DQPSK, CCK OFDM: BPSK, QPSK, 16QAM and 64QAM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/ 5.5/ 2/1Mbps 802.11g: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6Mbps 802.11n: MCS0~MCS7, HT20&HT40, up to 300Mbps
FREQUENCY RANGE	2.4GHz: 2400 ~ 2483.5MHz
NUMBER OF CHANNEL	2.4GHz: 11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz)
OUTPUT POWER	113mW
ANTENNA TYPE	Monopole & printed Antenna, Soldered on PCB
ANTENNA GAIN(dBi)	Main antenna :Average (-3dBi) / Peak (2dBi) Assistant antenna :Average (-3dBi) / Peak (1.5dBi)
I/O PORTS	Refer to user's manual
ASSOCIATED DEVICES	N/A

NOTE:

- The EUT provides two completed transmitters and two receivers.

Modulation mode	TX FUNCTION	RX FUNCTION
802.11b	1TX	1RX
802.11g	1TX	1RX
802.11n (20MHz)	2TX	2RX
802.11n (40MHz)	2TX	2RX



2. The frequency bands used in this EUT are listed as follows:

Frequency Band (MHz)	2400~2483.5
802.11b	√
802.11g	√
802.11n (20MHz)	√
802.11n (40MHz)	√

3. The above EUT information was declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.
4. The product have two models(iwi666 and iwi666-B). Both of them have the same circuit structure, only different is the memory capacity, we choose the model iwi666 perform the full tests.



3.2 DESCRIPTION OF TEST MODES

11 channels are provided for 802.11b, 802.11g and 802.11n (20MHz):

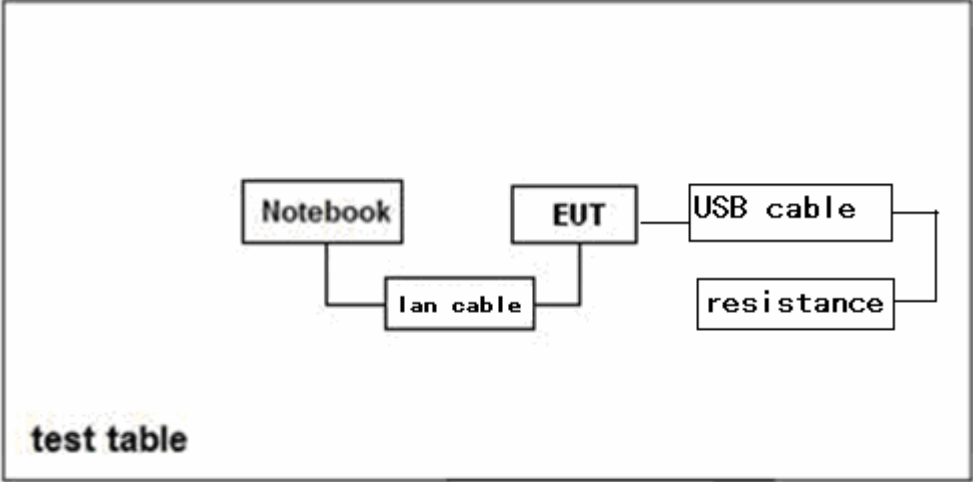
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

7 channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2422MHz	5	2442MHz
2	2427MHz	6	2447MHz
3	2432MHz	7	2452MHz
4	2437MHz		



3.2.1 CONFIGURATION OF SYSTEM UNDER TEST





3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

FOR 2.400 ~ 2.4835GHz:

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
1	√	√	√	√	NA

Where **RE≥1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

Note:

- (A) EUT CONFIGURE MODE 1: Link the EUT to the notebook with a lan cable, use the software to make sure EUT's antennas work in the fixed mode and channel.

RADIATED EMISSION TEST (ABOVE 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	EUT CONFIGURE MODE
802.11b	1 to 11	1, 6, 11	DSSS	CCK	1	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	1
802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5	1
802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	7	1

RADIATED EMISSION TEST (BELOW 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	EUT CONFIGURE MODE
802.11b	1 to 11	1, 6, 11	DSSS	CCK	1	1



POWER LINE CONDUCTED EMISSION TEST:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	EUT CONFIGURE MODE
802.11b	1 to 11	1, 6, 11	DSSS	CCK	1	1

BANDEDGE MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	EUT CONFIGURE MODE
802.11b	1 to 11	1, 11	DSSS	CCK	1	1
802.11g	1 to 11	1, 11	OFDM	BPSK	6	1
802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	6.5	1
802.11n (40MHz)	1 to 7	1, 7	OFDM	BPSK	7	1



ANTENNA PORT CONDUCTED MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	EUT CONFIGURE MODE
802.11b	1 to 11	1, 6, 11	DSSS	CCK	1	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	1
802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5	1
802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	7	1



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.247)

ANSI C63.4-2003

KDB 558074 D01 DTS Meas Guidance v02

All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.
1	Notebook	Lenovo	R61i



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Spectrum Agilent	E4403B	E1S1001	Sep. 10, 2013
Receiver R&S	ESCS30	E1R1001	May. 10, 2013
Trilog Broadband Antenna Schwarzbeck	VULB 9168	E1A1001	Apr. 26, 2014
Double Ridged Broadband Horn Antenna Schwarzbeck	BBHA 9120D	E1A1002	Apr. 26, 2014
Preamplifier Agilent	HP 8447D-CFG001	E1A2001	Dec. 25, 2012
Signal Analyzer ROHDE & SCHWARZ	FSP30	E1S1002	Sep. 09, 2013
RF signal cable Woken	RG-402	E1CBH01	Aug. 03, 2013
RF signal cable Woken	RG-412	E1CBL02	Aug. 03, 2013
RF signal cable Woken	RG-412	E1CBL03	Aug. 03, 2013
RF signal cable Woken	RG-412	E1CBL04	Aug. 03, 2013
Software ADT	ADT_Radiated_V7.5	N/A	N/A

NOTE: The calibration interval of the above test instruments is 12 months.



4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

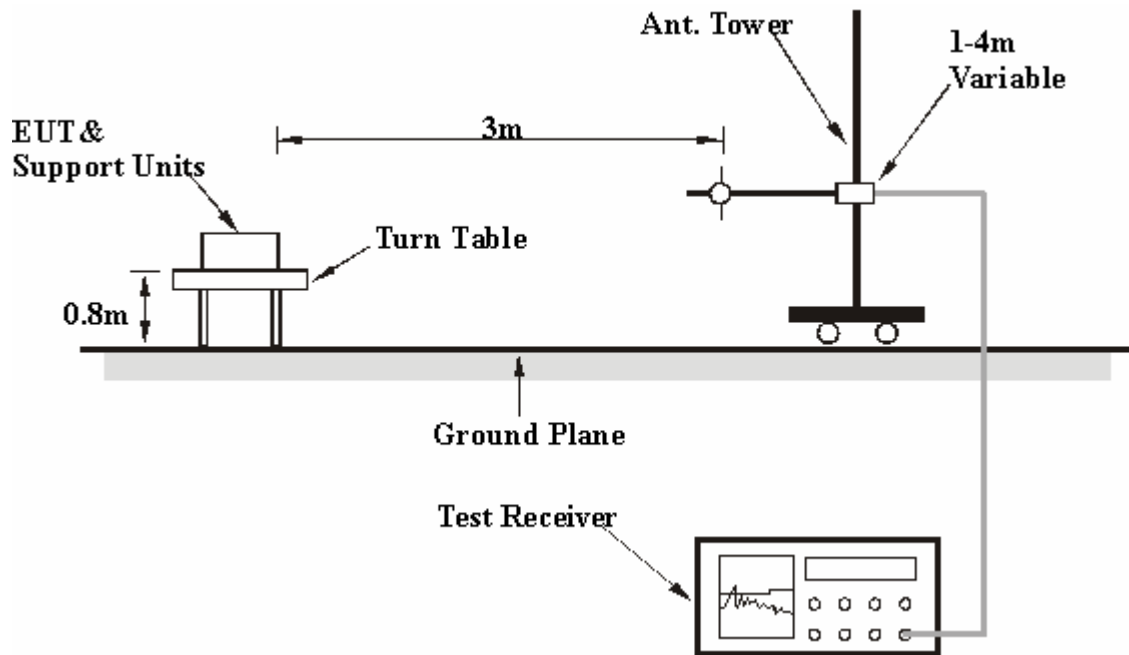
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

- a. Put EUT onto the center of the test table, then link EUT to the Notebook.
- b. Use the software to control the EUT work on the certain channel, then do the test.



4.1.7 TEST RESULTS

802.11b DSSS MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH 999hPa	TESTED BY	Kevin JIANG

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2390.00	PK	33.06	14.42	47.48	74.00	-26.52
2	2390.00	AV	33.06	2.49	35.56	54.00	-18.44
3	*2412.00	PK	33.05	58.73	91.78		
4	*2412.00	AV	33.05	47.82	80.87		
5	4824.00	PK	37.75	10.15	47.90	74.00	-26.10
6	4824.00	AV	37.75	-0.48	37.27	54.00	-16.73
7	7236.00	PK	44.01	9.74	53.74	74.00	-20.26
8	7236.00	AV	44.01	-0.53	43.48	54.00	-10.52
9	9648.00	PK	46.47	10.16	56.63	74.00	-17.37
10	9648.00	AV	46.47	0.09	46.56	54.00	-7.44

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2390.00	PK	33.06	13.01	46.07	74.00	-27.93
2	2390.00	AV	33.06	1.54	34.61	54.00	-19.39
3	*2412.00	PK	33.05	59.93	92.98		
4	*2412.00	AV	33.05	43.51	76.56		
5	4824.00	PK	37.75	10.27	48.02	74.00	-25.98
6	4824.00	AV	37.75	-0.42	37.33	54.00	-16.67
7	7236.00	PK	44.01	9.42	53.43	74.00	-20.57
8	7236.00	AV	44.01	-0.51	43.49	54.00	-10.51
9	9648.00	PK	46.47	10.04	56.50	74.00	-17.50
10	9648.00	AV	46.47	-0.10	46.36	54.00	-7.64

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH 999hPa	TESTED BY	Kevin JIANG

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2437.00	PK	33.05	56.23	89.28		
2	*2437.00	AV	33.05	48.64	81.69		
3	4874.00	PK	37.84	12.85	50.69	74.00	-23.31
4	4874.00	AV	37.84	-0.65	37.19	54.00	-16.81
5	7311.00	PK	44.06	9.61	53.67	74.00	-20.33
6	7311.00	AV	44.06	-0.49	43.57	54.00	-10.43
7	9748.00	PK	46.64	10.18	56.82	74.00	-17.18
8	9748.00	AV	46.64	-0.03	46.61	54.00	-7.39

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2437.00	PK	33.05	55.91	88.96		
2	*2437.00	AV	33.05	48.39	81.44		
3	4874.00	PK	37.84	9.78	47.62	74.00	-26.38
4	4874.00	AV	37.84	-0.68	37.17	54.00	-16.83
5	7311.00	PK	44.06	9.02	53.08	74.00	-20.92
6	7311.00	AV	44.06	-0.47	43.59	54.00	-10.41
7	9748.00	PK	46.64	9.13	55.78	74.00	-18.22
8	9748.00	AV	46.64	-0.04	46.60	54.00	-7.40

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH 999hPa	TESTED BY	Kevin JIANG

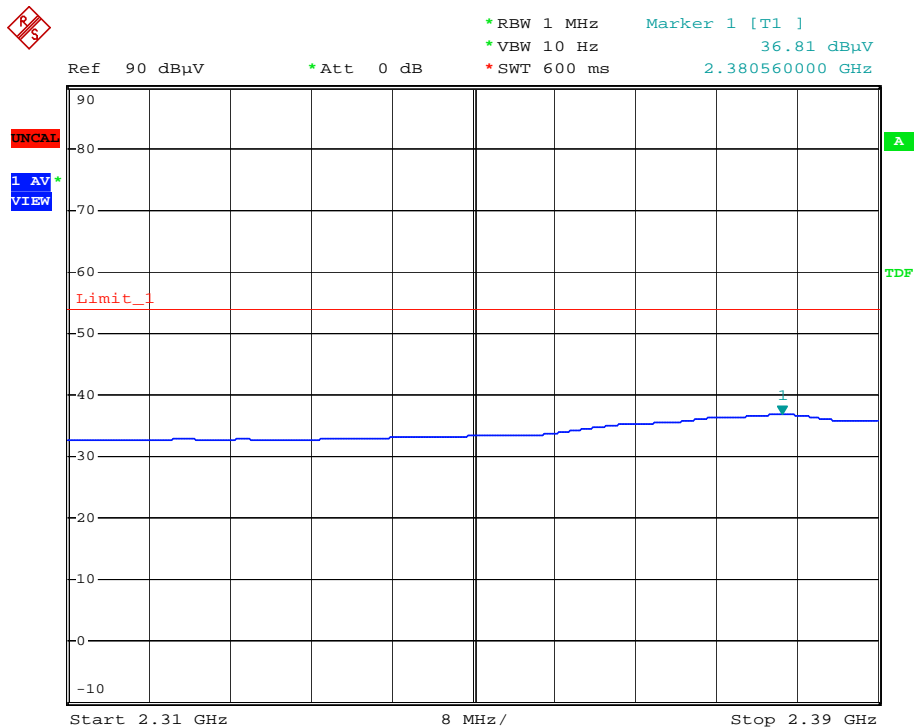
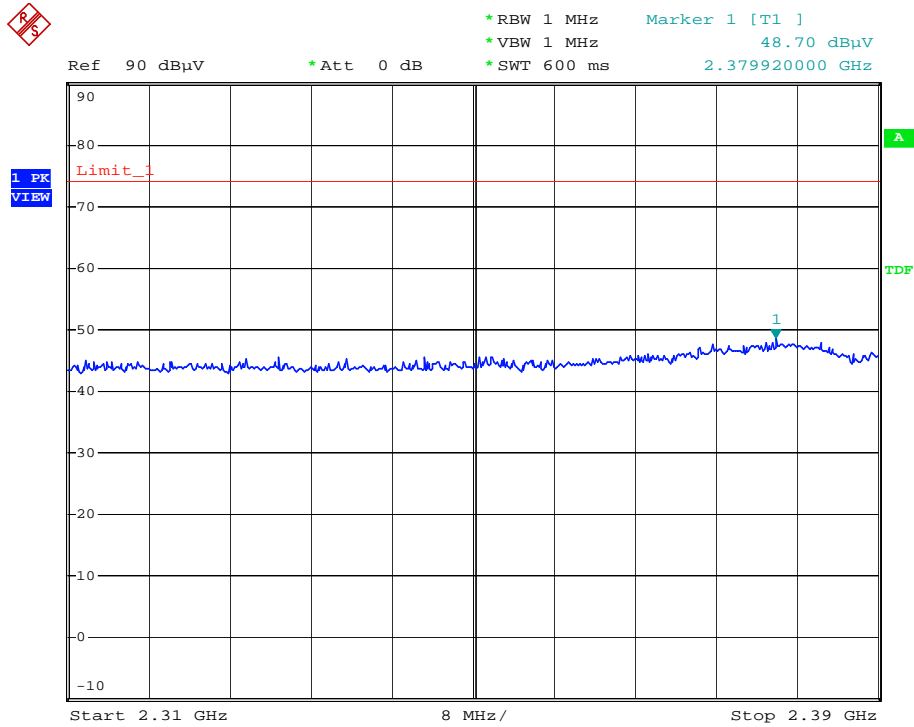
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2462.00	PK	33.05	57.83	90.88		
2	*2462.00	AV	33.05	52.36	85.41		
3	2483.50	PK	33.05	12.36	45.41	74.00	-28.59
4	2483.50	AV	33.05	1.45	34.50	54.00	-19.50
5	4924.00	PK	37.94	9.18	47.12	74.00	-26.88
6	4924.00	AV	37.94	-0.47	37.47	54.00	-16.53
7	7386.00	PK	44.11	9.42	53.53	74.00	-20.47
8	7386.00	AV	44.11	-0.20	43.91	54.00	-10.09
9	9848.00	PK	46.74	10.07	56.81	74.00	-17.19
10	9848.00	AV	46.74	-0.06	46.68	54.00	-7.32

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2462.00	PK	33.05	57.83	90.88		
2	*2462.00	AV	33.05	52.36	85.41		
3	2483.50	PK	33.05	12.36	45.41	74.00	-28.59
4	2483.50	AV	33.05	1.45	34.50	54.00	-19.50
5	4924.00	PK	37.94	9.18	47.12	74.00	-26.88
6	4924.00	AV	37.94	-0.47	37.47	54.00	-16.53
7	7386.00	PK	44.11	9.42	53.53	74.00	-20.47
8	7386.00	AV	44.11	-0.20	43.91	54.00	-10.09
9	9848.00	PK	46.74	10.07	56.81	74.00	-17.19
10	9848.00	AV	46.74	-0.06	46.68	54.00	-7.32

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.

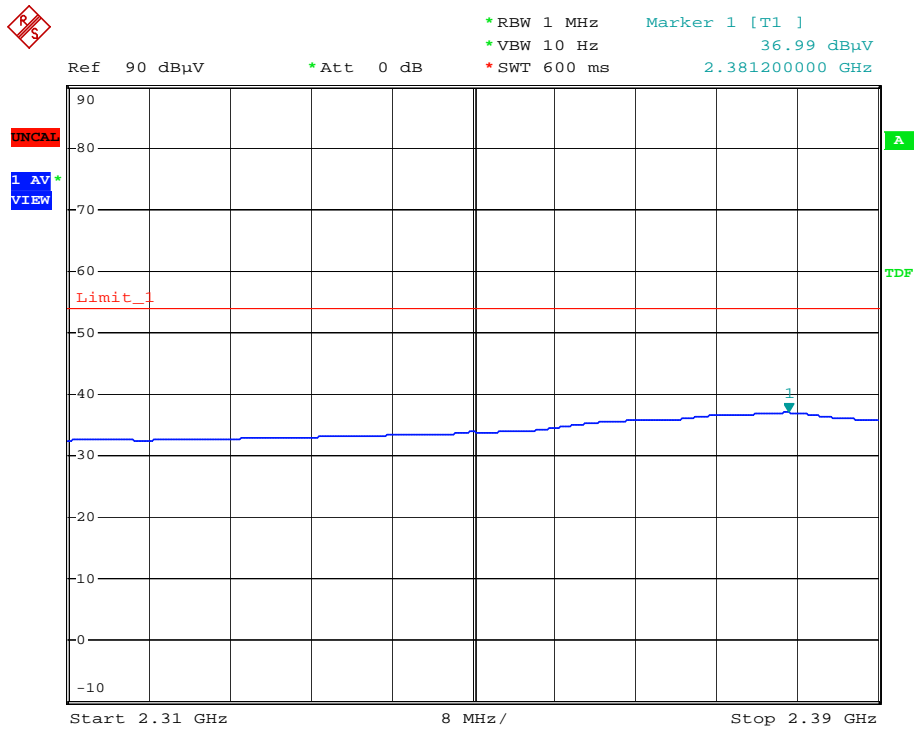
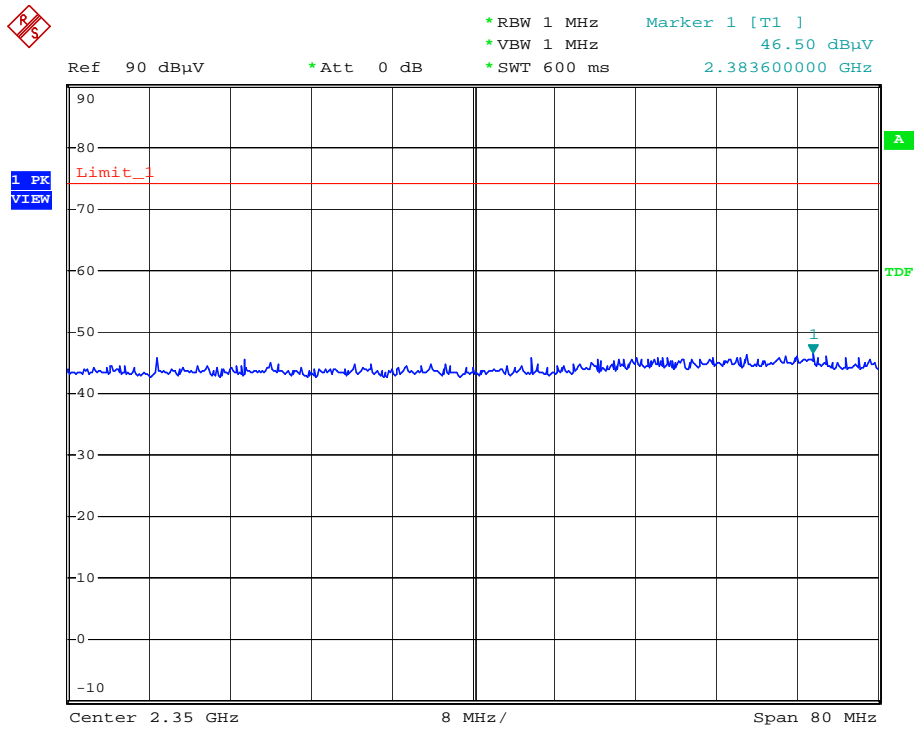


RESTRICTED BANDEDGE (802.11b MODE, CH1, HORIZONTAL)



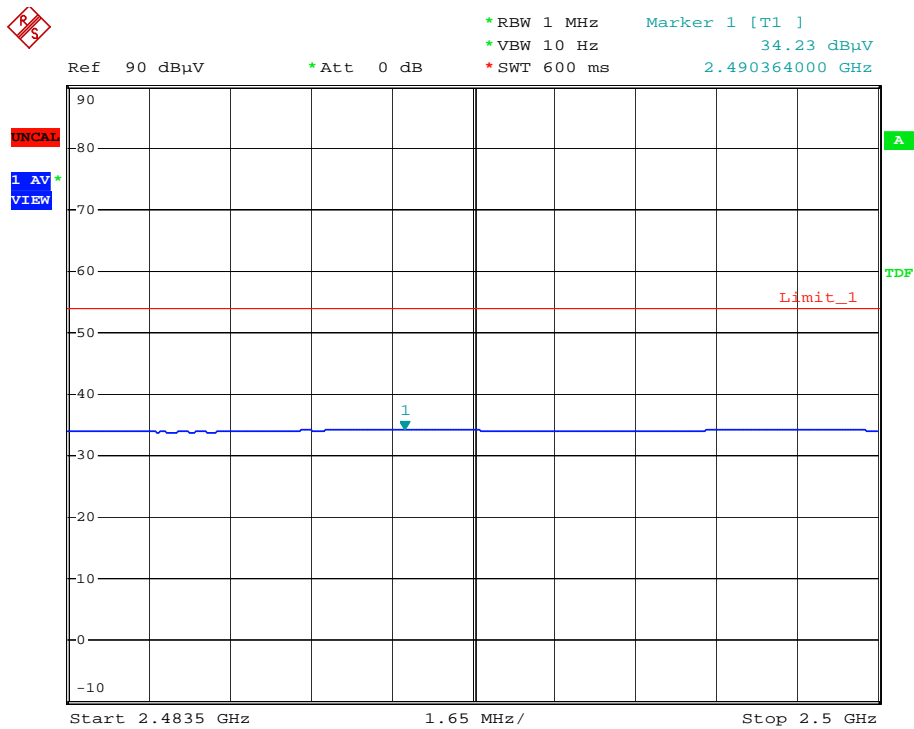
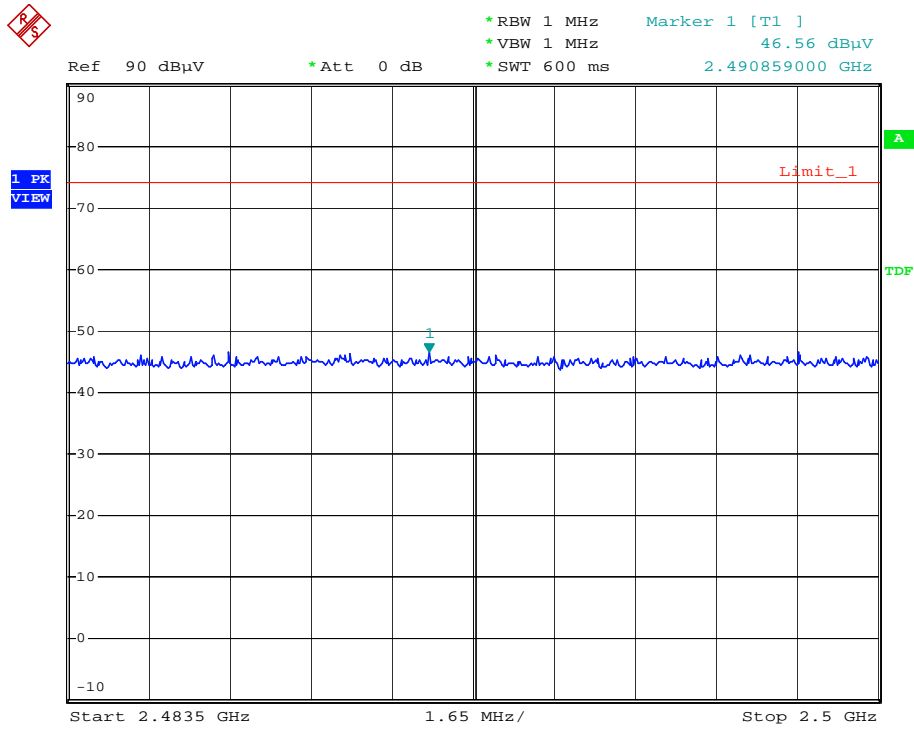


RESTRICTED BANDEDGE (802.11b MODE,CH1, VERTICAL)



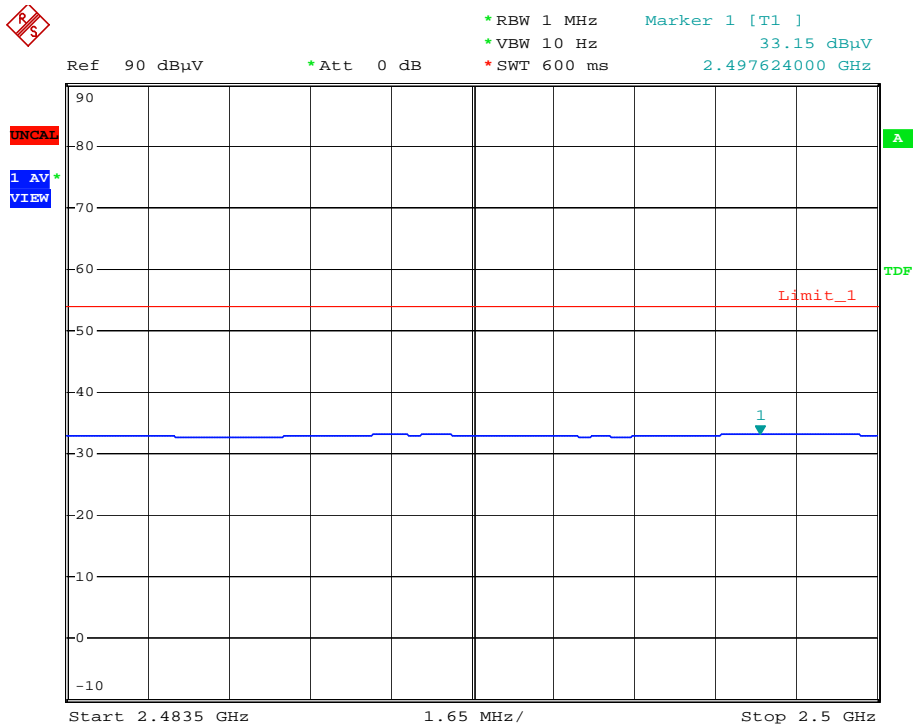
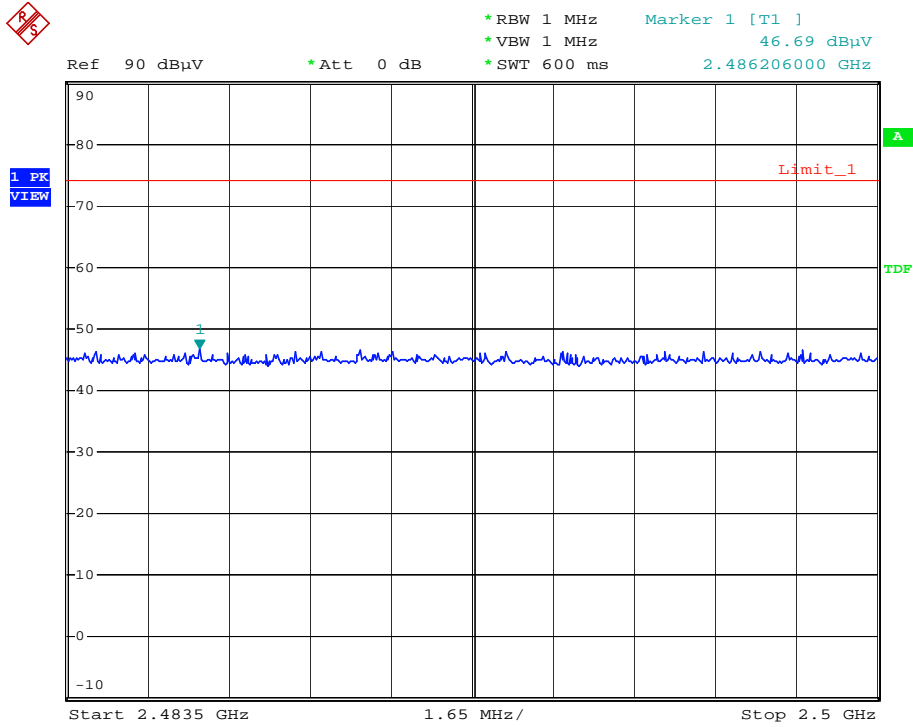


RESTRICTED BANDEDGE (802.11b MODE,CH11, HORIZONTAL)





RESTRICTED BANDEDGE (802.11b MODE,CH11, VERTICAL)





802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH 999hPa	TESTED BY	Kevin JIANG

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2390.00	PK	33.06	19.45	52.51	74.00	-21.49
2	2390.00	AV	33.06	5.06	38.13	54.00	-15.87
3	*2412.00	PK	33.05	60.05	93.10		
4	*2412.00	AV	33.05	47.61	80.66		
5	4824.00	PK	37.75	10.19	47.94	74.00	-26.06
6	4824.00	AV	37.75	-0.45	37.30	54.00	-16.70
7	7236.00	PK	44.01	10.36	54.37	74.00	-19.63
8	7236.00	AV	44.01	-0.48	43.53	54.00	-10.47
9	9648.00	PK	46.47	10.09	56.56	74.00	-17.44
10	9648.00	AV	46.47	-0.07	46.40	54.00	-7.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2390.00	PK	33.06	19.07	52.13	74.00	-21.87
2	2390.00	AV	33.06	6.82	39.88	54.00	-14.12
3	*2412.00	PK	33.05	59.21	92.26		
4	*2412.00	AV	33.05	44.59	77.64		
5	4824.00	PK	37.75	9.10	46.85	74.00	-27.15
6	4824.00	AV	37.75	-0.56	37.19	54.00	-16.81
7	7236.00	PK	44.01	10.19	54.20	74.00	-19.80
8	7236.00	AV	44.01	-0.61	43.39	54.00	-10.61
9	9648.00	PK	46.47	10.32	56.79	74.00	-17.21
10	9648.00	AV	46.47	-0.07	46.40	54.00	-7.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH 999hPa	TESTED BY	Kevin JIANG

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2437.00	PK	33.05	58.74	91.79		
2	*2437.00	AV	33.05	46.01	79.06		
3	4874.00	PK	37.84	10.02	47.87	74.00	-26.13
4	4874.00	AV	37.84	-0.58	37.26	54.00	-16.74
5	7311.00	PK	44.06	10.17	54.23	74.00	-19.77
6	7311.00	AV	44.06	-0.31	43.75	54.00	-10.25
7	9748.00	PK	46.64	9.44	56.08	74.00	-17.92
8	9748.00	AV	46.64	0.30	46.94	54.00	-7.06

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2437.00	PK	33.05	57.92	90.97		
2	*2437.00	AV	33.05	49.94	82.99		
3	4874.00	PK	37.84	10.11	47.95	74.00	-26.05
4	4874.00	AV	37.84	-0.56	37.28	54.00	-16.72
5	7311.00	PK	44.06	9.79	53.85	74.00	-20.15
6	7311.00	AV	44.06	-0.27	43.79	54.00	-10.21
7	9748.00	PK	46.64	9.82	56.46	74.00	-17.54
8	9748.00	AV	46.64	0.16	46.80	54.00	-7.20

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH 999hPa	TESTED BY	Kevin JIANG

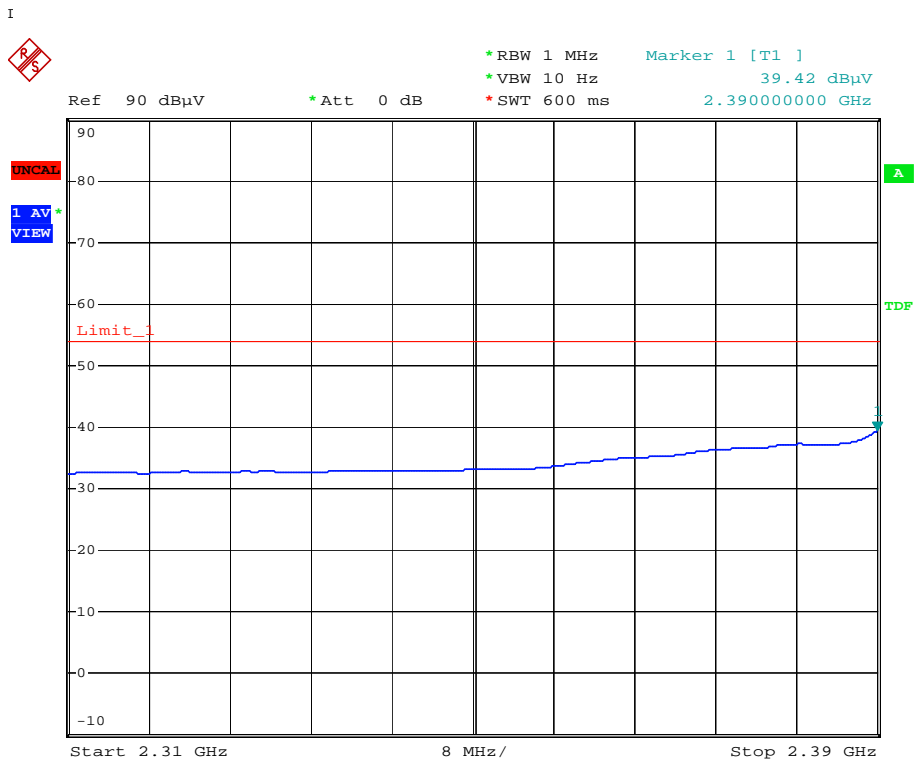
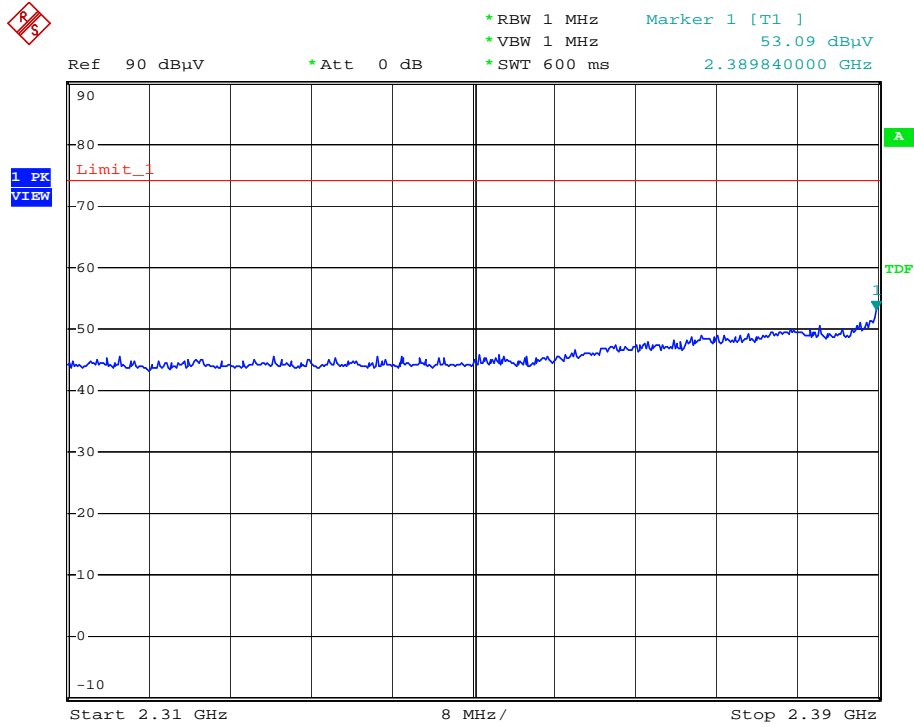
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2462.00	PK	33.05	59.80	92.85		
2	*2462.00	AV	33.05	51.31	84.36		
3	2483.50	PK	33.05	17.90	50.95	74.00	-23.05
4	2483.50	AV	33.05	3.53	36.58	54.00	-17.42
5	4924.00	PK	37.94	10.35	48.28	74.00	-25.72
6	4924.00	AV	37.94	-0.61	37.32	54.00	-16.68
7	7386.00	PK	44.11	9.60	53.71	74.00	-20.29
8	7386.00	AV	44.11	-0.28	43.83	54.00	-10.17
9	9848.00	PK	46.74	10.08	56.82	74.00	-17.18
10	9848.00	AV	46.74	0.13	46.87	54.00	-7.13

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2462.00	PK	33.05	59.45	92.50	74.00	18.50
2	*2462.00	AV	33.05	47.46	80.51	54.00	26.51
3	2483.50	PK	33.05	20.10	53.15	74.00	-20.85
4	2483.50	AV	33.05	5.17	38.23	54.00	-15.77
5	4924.00	PK	37.94	9.41	47.35	74.00	-26.65
6	4924.00	AV	37.94	-0.51	37.43	54.00	-16.57
7	7386.00	PK	44.11	10.05	54.16	74.00	-19.84
8	7386.00	AV	44.11	-0.12	44.00	54.00	-10.00
9	9848.00	PK	46.74	10.23	56.97	74.00	-17.03
10	9848.00	AV	46.74	0.20	46.94	54.00	-7.06

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.

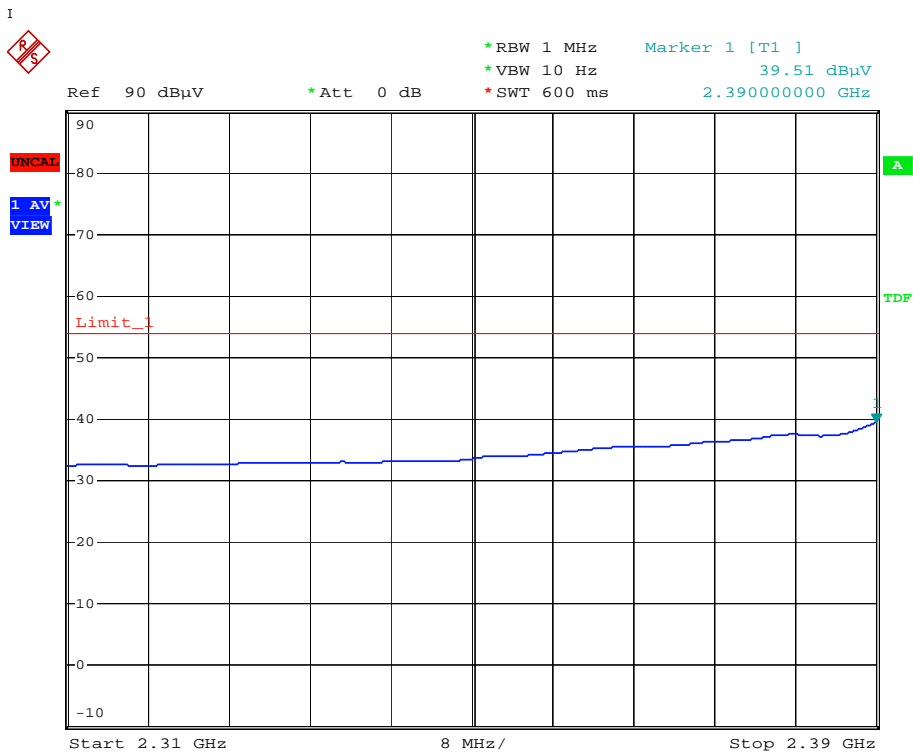
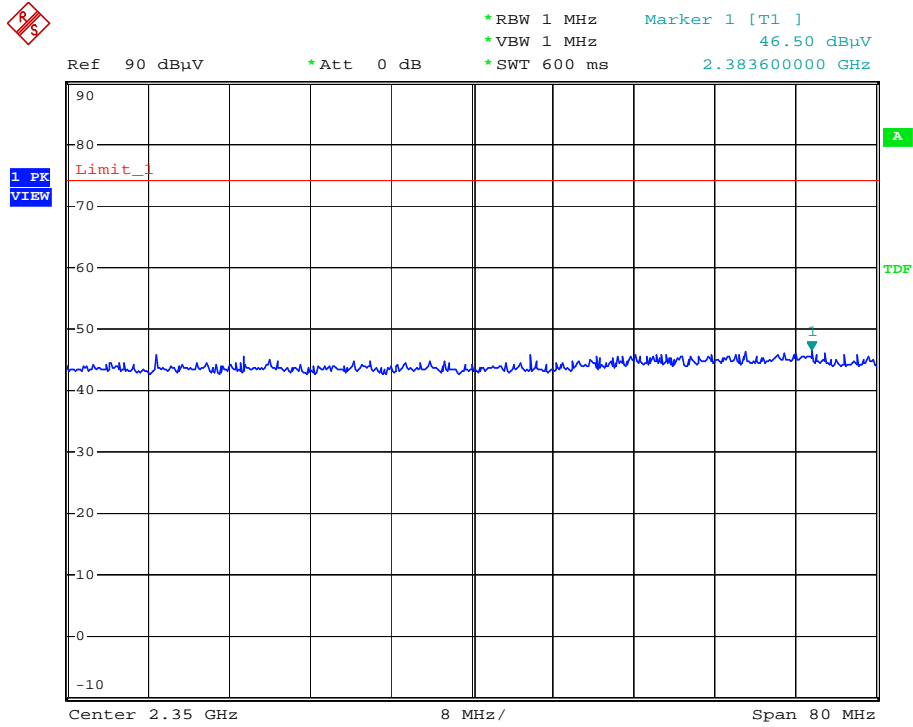


RESTRICTED BANDEDGE (802.11g MODE,CH1, HORIZONTAL)



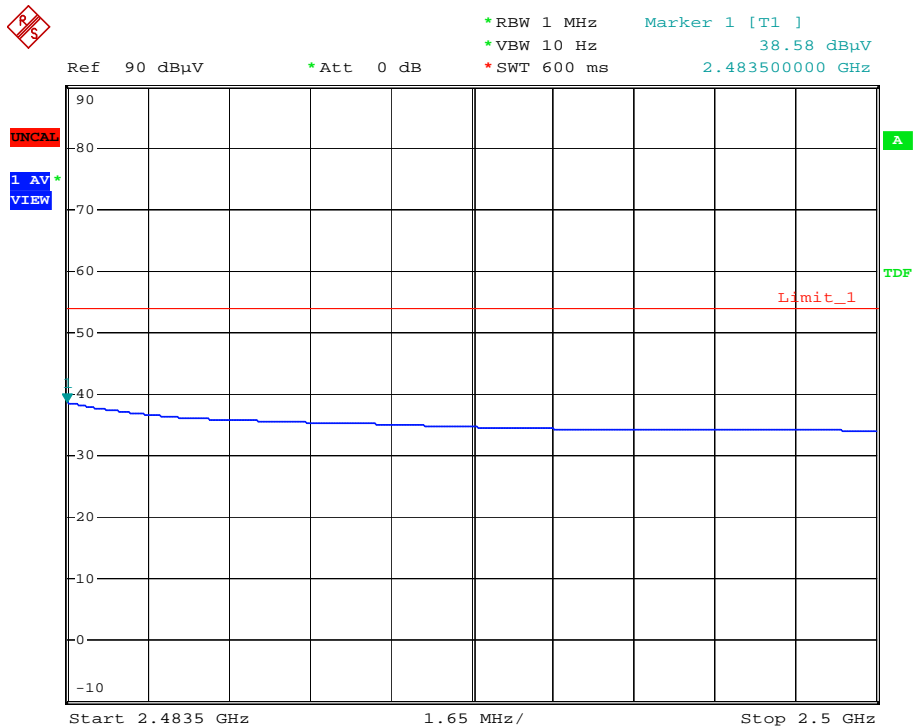
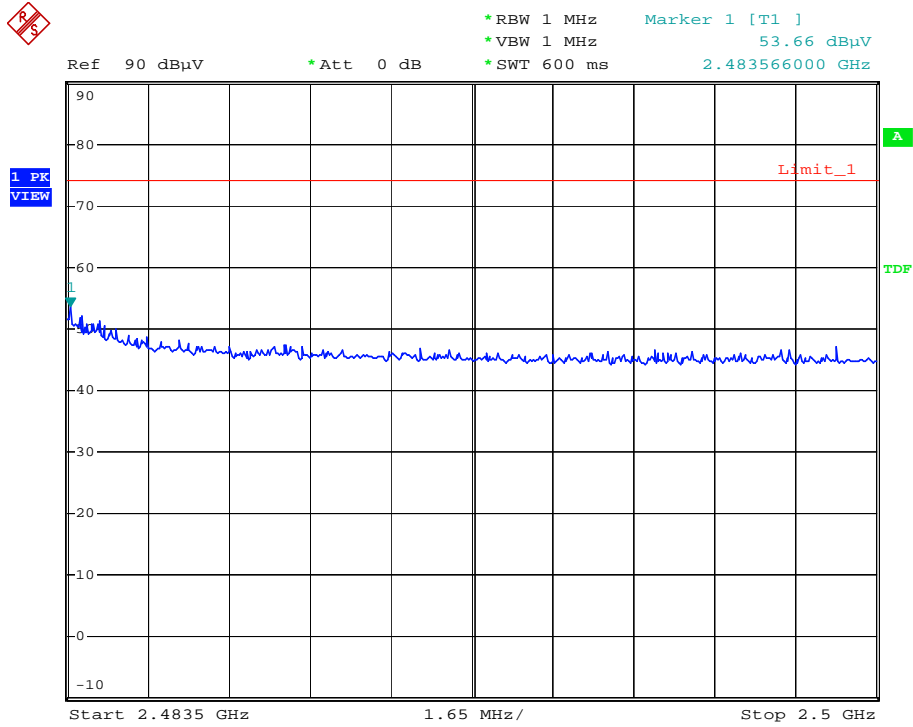


RESTRICTED BANDEDGE (802.11g MODE,CH1, VERTICAL)



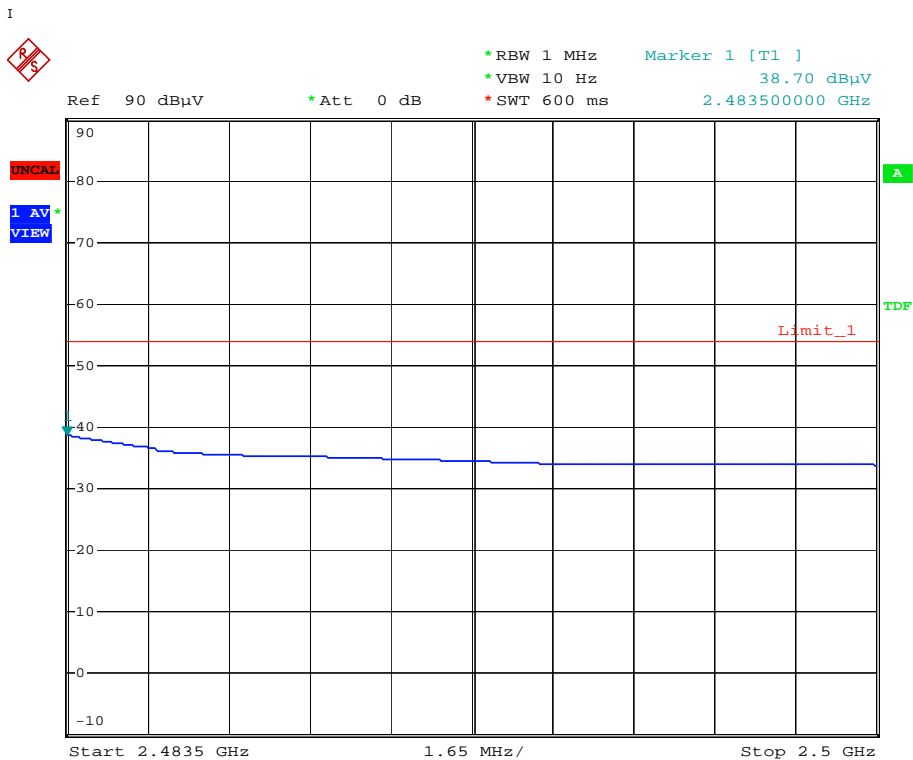
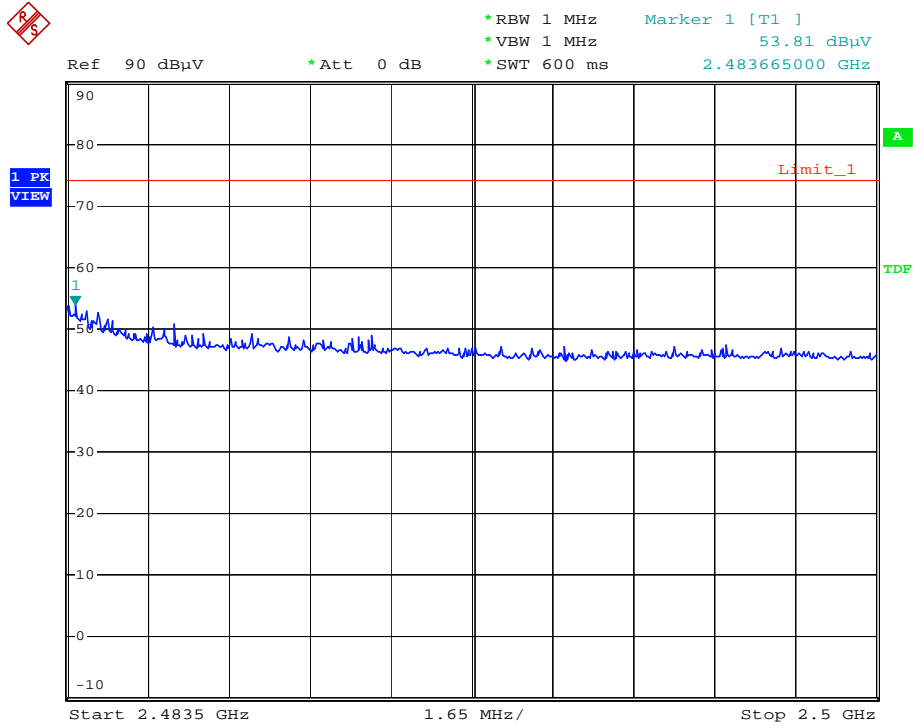


RESTRICTED BANDEDGE (802.11g MODE,CH11, HORIZONTAL)





RESTRICTED BANDEDGE (802.11g MODE,CH11, VERTICAL)





802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH 999hPa	TESTED BY	Kevin JIANG

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2390	PK	33.06	19.83	52.9	74	-21.1
2	2390	AV	33.06	9.16	42.22	54	-11.78
3	*2412.00	PK	33.05	59.49	92.53		
4	*2412.00	AV	33.05	47.64	80.69		
5	4824	PK	37.75	9.56	47.31	74	-26.69
6	4824	AV	37.75	-0.86	36.88	54	-17.12
7	7236	PK	44.01	9.42	53.43	74	-20.57
8	7236	AV	44.01	-0.95	43.05	54	-10.95
9	9648	PK	46.47	10.5	56.96	74	-17.04
10	9648	AV	46.47	-0.51	45.96	54	-8.04

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2390	PK	33.06	21.04	54.1	74	-19.9
2	2390	AV	33.06	7	40.06	54	-13.94
3	*2412.00	PK	33.05	61.75	94.8		
4	*2412.00	AV	33.05	47.33	80.37		
5	4824	PK	37.75	9.48	47.23	74	-26.77
6	4824	AV	37.75	-0.77	36.98	54	-17.02
7	7236	PK	44.01	9.29	53.3	74	-20.7
8	7236	AV	44.01	-0.98	43.02	54	-10.98
9	9648	PK	46.47	9.85	56.32	74	-17.68
10	9648	AV	46.47	-0.41	46.05	54	-7.95

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH 999hPa	TESTED BY	Kevin JIANG

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2437.00	PK	33.05	56.86	89.91		
2	*2437.00	AV	33.05	47.59	80.64		
3	4874.00	PK	37.84	9.79	47.63	74.00	-26.37
4	4874.00	AV	37.84	-1.02	36.82	54.00	-17.18
5	7311.00	PK	44.06	9.78	53.84	74.00	-20.16
6	7311.00	AV	44.06	-0.73	43.33	54.00	-10.67
7	9748.00	PK	46.64	10.67	57.31	74.00	-16.69
8	9748.00	AV	46.64	-0.36	46.29	54.00	-7.71

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2437.00	PK	33.05	58.59	91.64		
2	*2437.00	AV	33.05	47.55	80.60		
3	4874.00	PK	37.84	9.87	47.71	74.00	-26.29
4	4874.00	AV	37.84	-0.85	37.00	54.00	-17.00
5	7311.00	PK	44.06	10.04	54.10	74.00	-19.90
6	7311.00	AV	44.06	-0.81	43.25	54.00	-10.75
7	9748.00	PK	46.64	9.89	56.54	74.00	-17.46
8	9748.00	AV	46.64	-0.32	46.33	54.00	-7.67

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH 999hPa	TESTED BY	Kevin JIANG

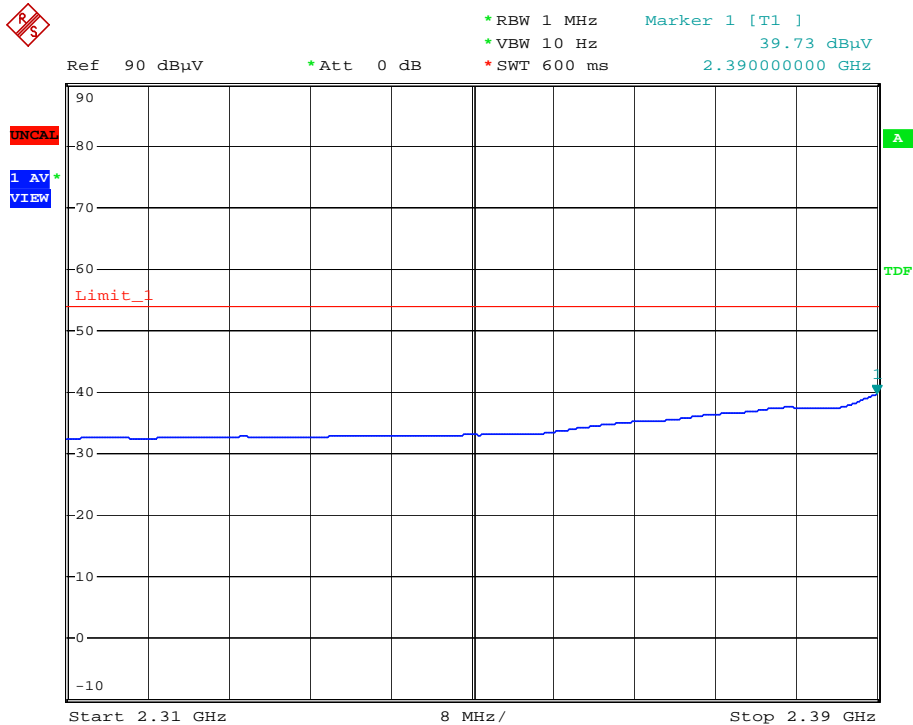
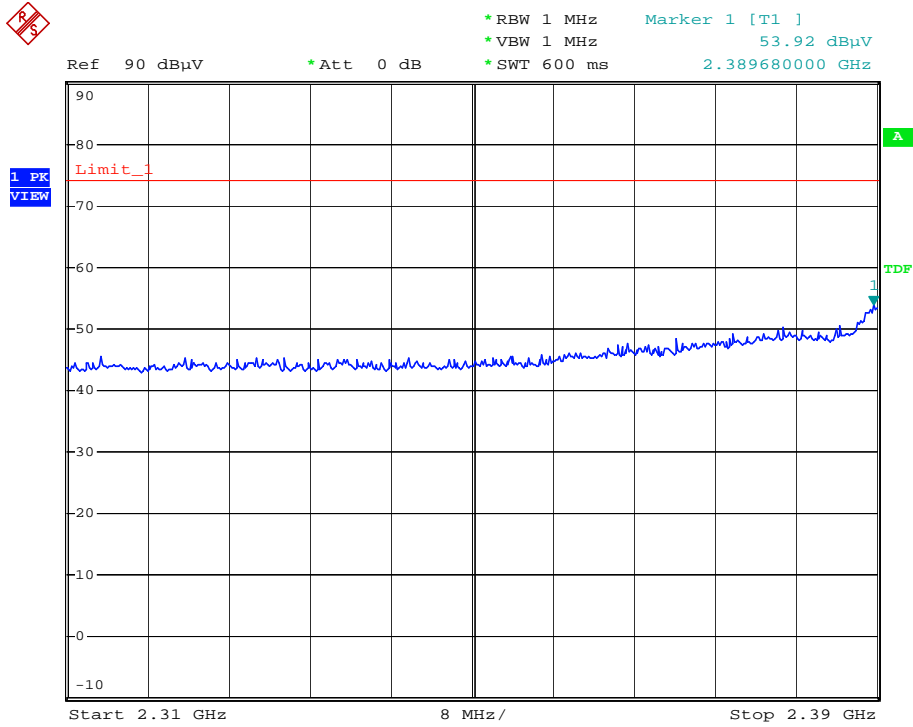
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2462.00	PK	33.05	59.65	92.70		
2	*2462.00	AV	33.05	50.31	83.36		
3	2483.50	PK	33.05	20.93	53.98	74.00	-20.02
4	2483.50	AV	33.05	7.00	40.05	54.00	-13.95
5	4924.00	PK	37.94	10.06	47.99	74.00	-26.01
6	4924.00	AV	37.94	-0.43	37.51	54.00	-16.49
7	7386.00	PK	44.11	9.20	53.32	74.00	-20.68
8	7386.00	AV	44.11	0.05	44.16	54.00	-9.84
9	9848.00	PK	46.74	9.93	56.67	74.00	-17.33
10	9848.00	AV	46.74	0.35	47.10	54.00	-6.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2462.00	PK	33.05	58.11	91.16		
2	*2462.00	AV	33.05	48.49	81.54		
3	2483.50	PK	33.05	19.89	52.94	74.00	-21.06
4	2483.50	AV	33.05	5.23	38.28	54.00	-15.72
5	4924.00	PK	37.94	9.08	47.01	74.00	-26.99
6	4924.00	AV	37.94	-0.35	37.58	54.00	-16.42
7	7386.00	PK	44.11	9.06	53.17	74.00	-20.83
8	7386.00	AV	44.11	0.01	44.12	54.00	-9.88
9	9848.00	PK	46.74	9.84	56.59	74.00	-17.41
10	9848.00	AV	46.74	0.26	47.00	54.00	-7.00

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.

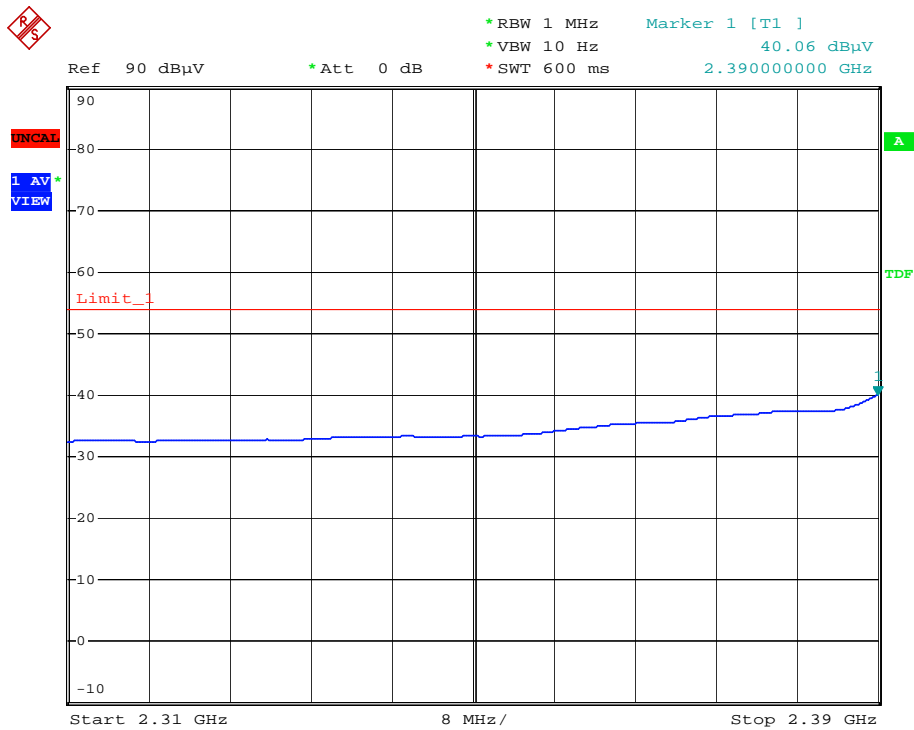
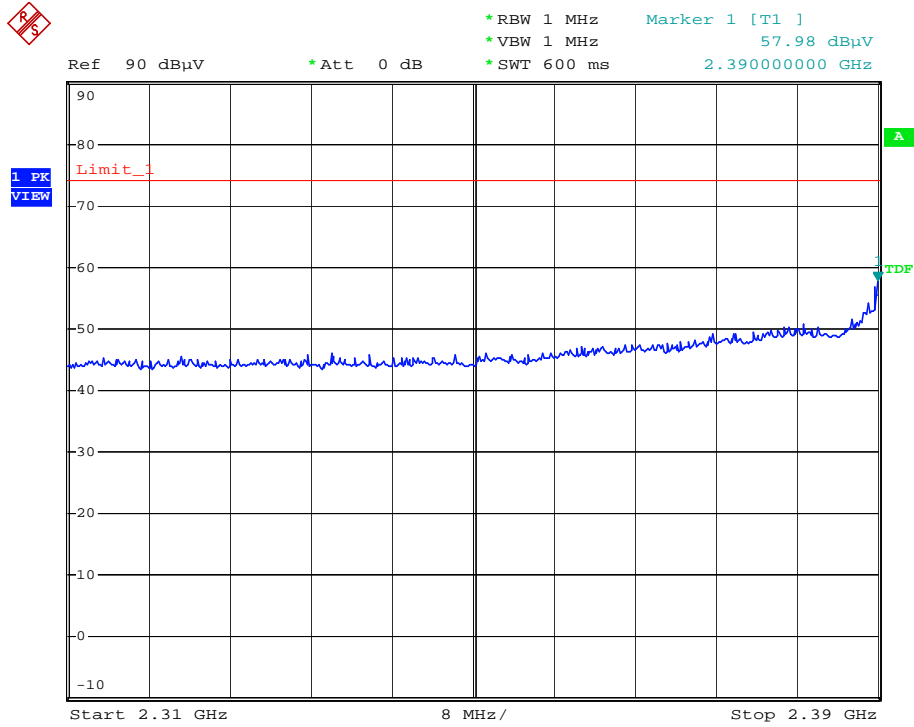


RESTRICTED BANDEDGE [802.11n (20MHz) MODE,CH1, HORIZONTAL]



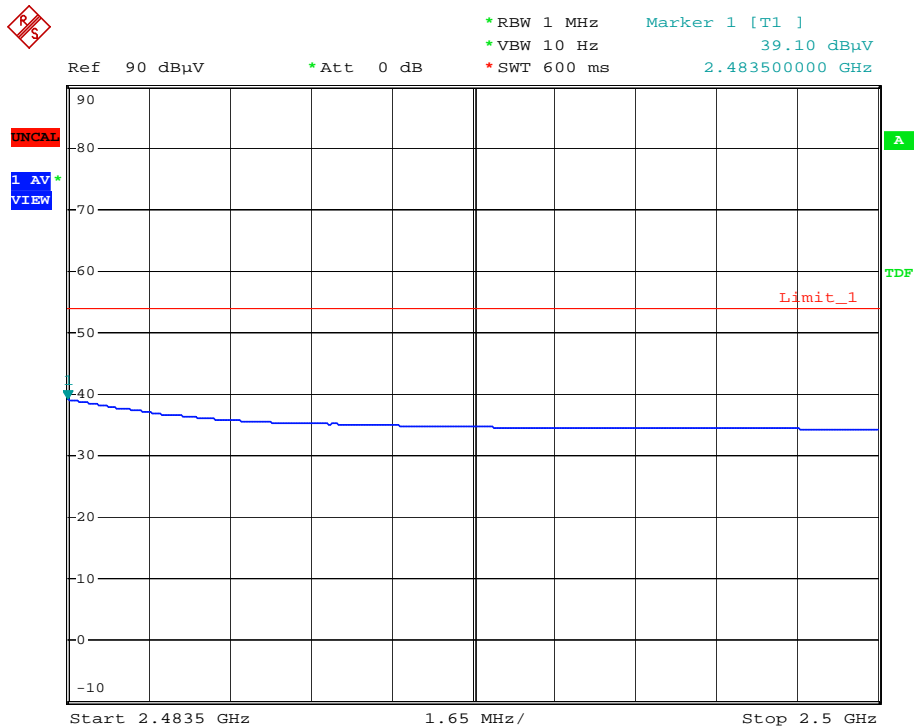
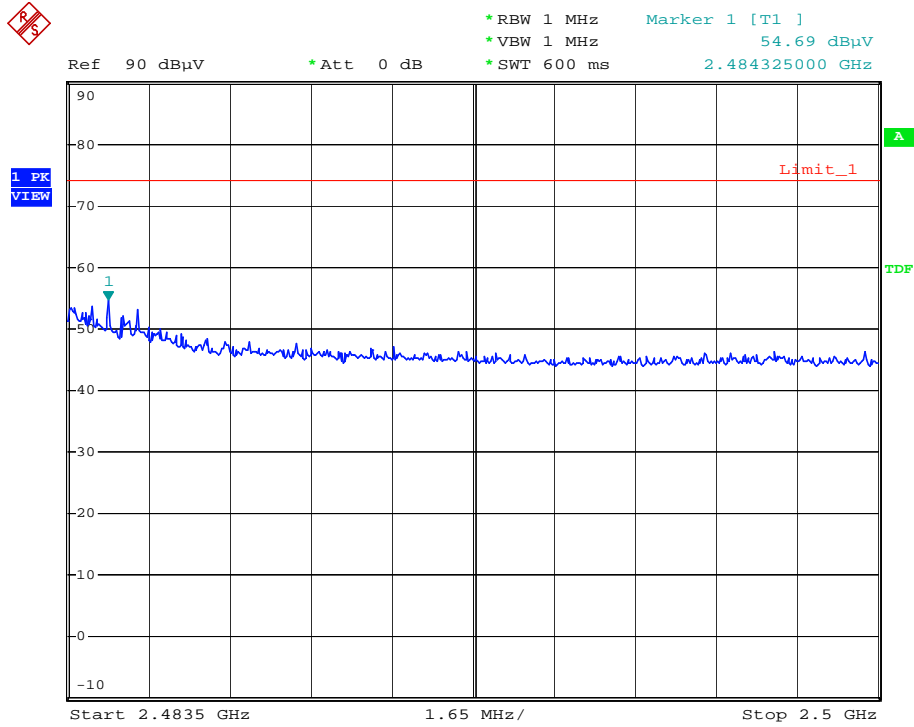


RESTRICTED BANDEDGE [802.11n (20MHz)MODE,CH1, VERTICAL]



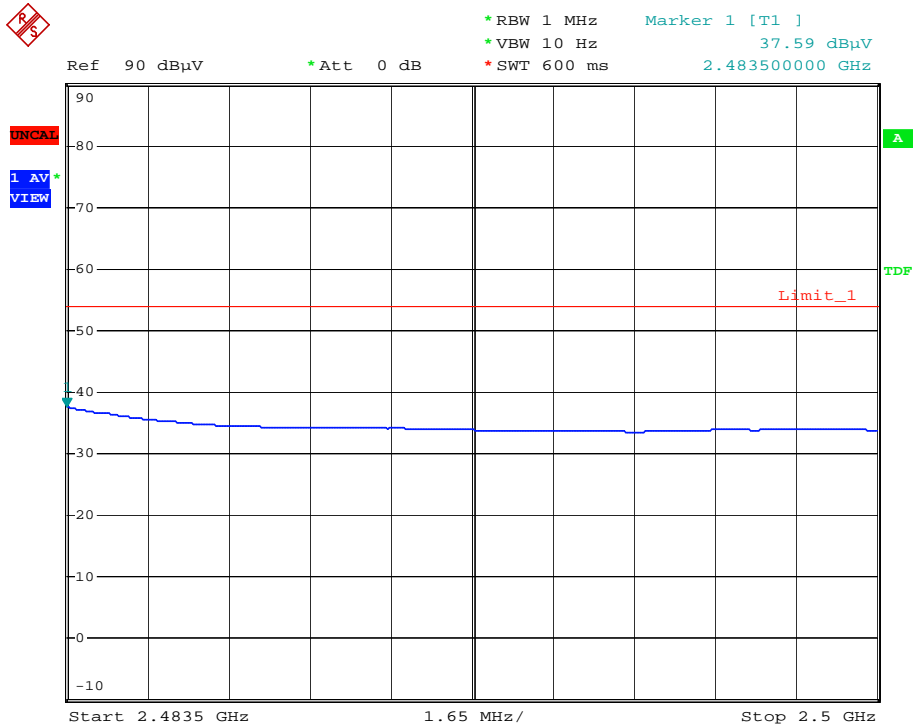
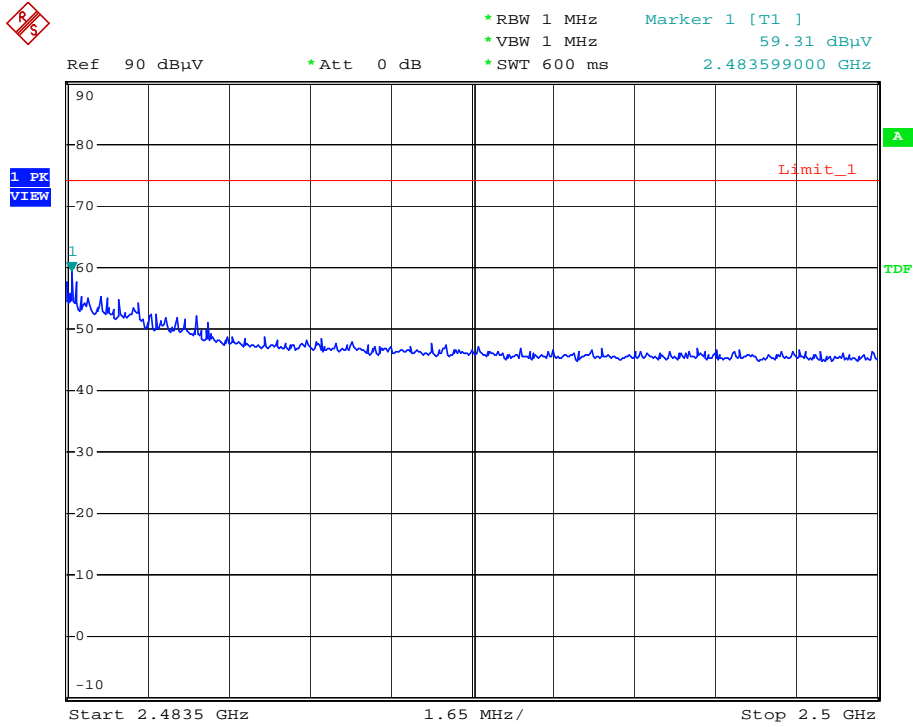


RESTRICTED BANDEDGE [802.11n (20MHz) MODE,CH11, HORIZONTAL]





RESTRICTED BANDEDGE [802.11n (20MHz) MODE,CH11, VERTICAL]





802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH 999hPa	TESTED BY	Kevin JIANG

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2390.00	PK	33.06	21.10	54.17	74.00	-19.83
2	2390.00	AV	33.06	8.19	41.25	54.00	-12.75
3	*2422.00	PK	33.05	57.83	90.88		
4	*2422.00	AV	33.05	45.38	78.43		
5	4844.00	PK	37.78	9.43	47.21	74.00	-26.79
6	4844.00	AV	37.78	-0.87	36.91	54.00	-17.09
7	7266.00	PK	44.03	9.03	53.06	74.00	-20.94
8	7266.00	AV	44.03	-0.97	43.06	54.00	-10.94
9	9688.00	PK	46.54	9.11	55.65	74.00	-18.35
10	9688.00	AV	46.54	-0.50	46.04	54.00	-7.96

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2390.00	PK	33.06	21.13	54.19	74.00	-19.81
2	2390.00	AV	33.06	5.69	38.76	54.00	-15.24
3	*2422.00	PK	33.05	57.09	90.14		
4	*2422.00	AV	33.05	45.19	78.24		
5	4844.00	PK	37.78	9.61	47.40	74.00	-26.60
6	4844.00	AV	37.78	-0.87	36.91	54.00	-17.09
7	7266.00	PK	44.03	9.40	53.43	74.00	-20.57
8	7266.00	AV	44.03	-0.97	43.06	54.00	-10.94
9	9688.00	PK	46.54	9.96	56.50	74.00	-17.50
10	9688.00	AV	46.54	-0.50	46.04	54.00	-7.96

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH 999hPa	TESTED BY	Kevin JIANG

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2437.00	PK	33.05	57.12	90.17		
2	*2437.00	AV	33.05	44.08	77.13		
3	4874.00	PK	37.84	9.33	47.17	74.00	-26.83
4	4874.00	AV	37.84	-0.96	36.88	54.00	-17.12
5	7311.00	PK	44.06	9.14	53.20	74.00	-20.80
6	7311.00	AV	44.06	-0.81	43.25	54.00	-10.75
7	9748.00	PK	46.64	10.05	56.70	74.00	-17.30
8	9748.00	AV	46.64	-0.35	46.29	54.00	-7.71

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2437.00	PK	33.05	56.68	89.73		
2	*2437.00	AV	33.05	42.66	75.71		
3	4874.00	PK	37.84	9.59	47.43	74.00	-26.57
4	4874.00	AV	37.84	-1.04	36.80	54.00	-17.20
5	7311.00	PK	44.06	9.31	53.37	74.00	-20.63
6	7311.00	AV	44.06	-0.87	43.19	54.00	-10.81
7	9748.00	PK	46.64	10.16	56.80	74.00	-17.20
8	9748.00	AV	46.64	-0.32	46.33	54.00	-7.67

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH 999hPa	TESTED BY	Kevin JIANG

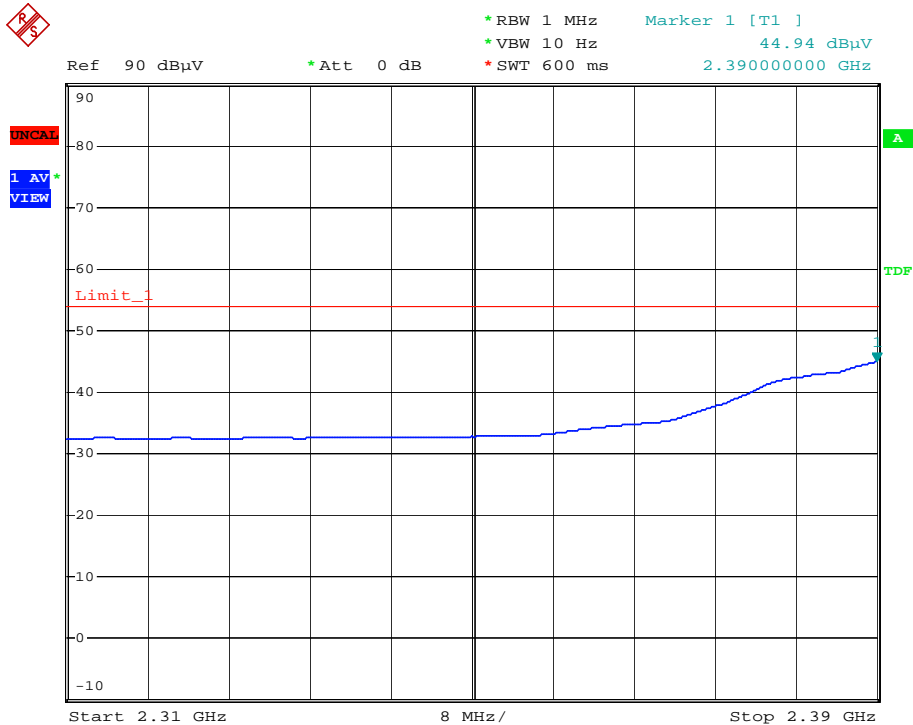
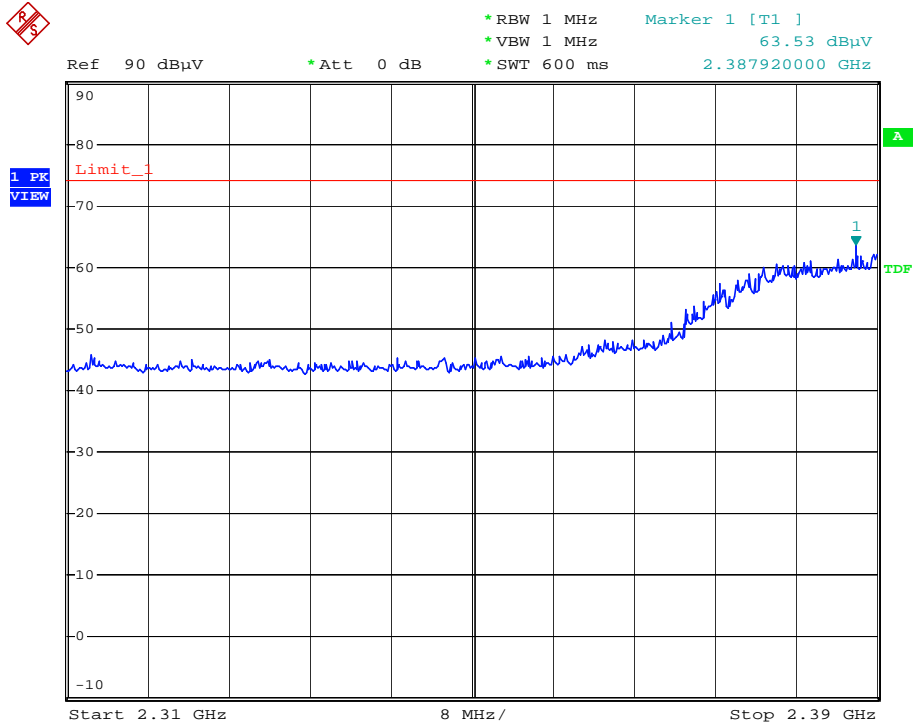
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2452.00	PK	33.05	57.10	90.15		
2	*2452.00	AV	33.05	44.44	77.49		
3	2483.50	PK	33.05	22.36	55.41	74.00	-18.59
4	2483.50	AV	33.05	6.57	39.63	54.00	-14.37
5	4904.00	PK	37.90	9.40	47.30	74.00	-26.70
6	4904.00	AV	37.90	-0.96	36.94	54.00	-17.06
7	7356.00	PK	44.09	9.99	54.09	74.00	-19.91
8	7356.00	AV	44.09	-0.63	43.47	54.00	-10.53
9	9808.00	PK	46.74	10.83	57.57	74.00	-16.43
10	9808.00	AV	46.74	-0.03	46.70	54.00	-7.30

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	Frequency (MHz)	Detector	Factor (dB)	Reading (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*2452.00	PK	33.05	53.99	87.04		
2	*2452.00	AV	33.05	42.48	75.53		
3	2483.50	PK	33.05	18.34	51.39	74.00	-22.61
4	2483.50	AV	33.05	3.96	37.01	54.00	-16.99
5	4904.00	PK	37.90	9.58	47.48	74.00	-26.52
6	4904.00	AV	37.90	-0.92	36.98	54.00	-17.02
7	7356.00	PK	44.09	10.05	54.14	74.00	-19.86
8	7356.00	AV	44.09	-0.55	43.54	54.00	-10.46
9	9808.00	PK	46.74	10.27	57.01	74.00	-16.99
10	9808.00	AV	46.74	-0.10	46.63	54.00	-7.37

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.

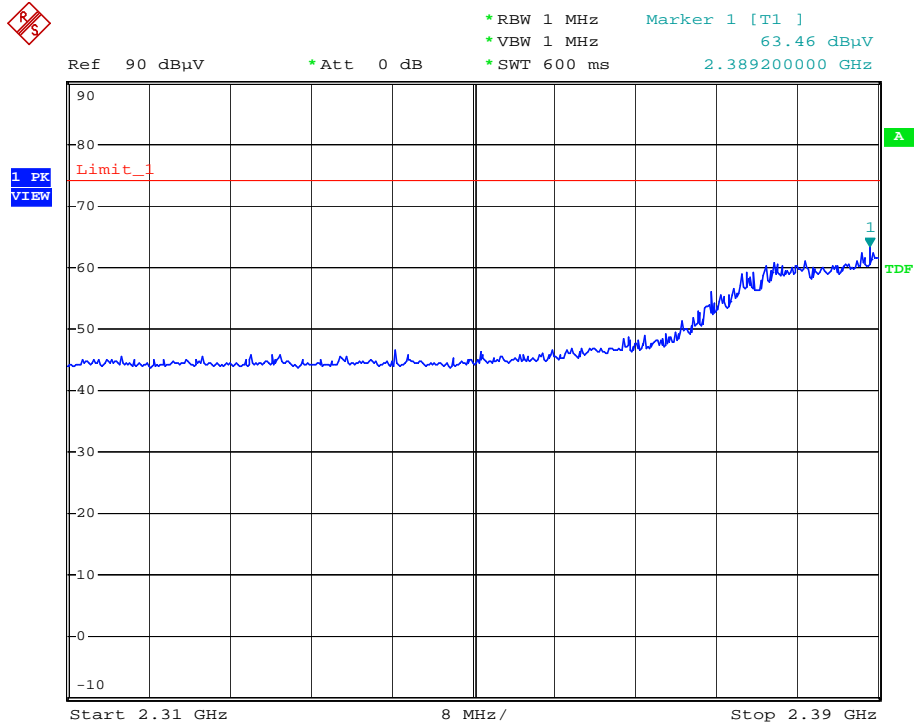


RESTRICTED BANDEDGE [802.11n (40MHz) MODE,CH1, HORIZONTAL]

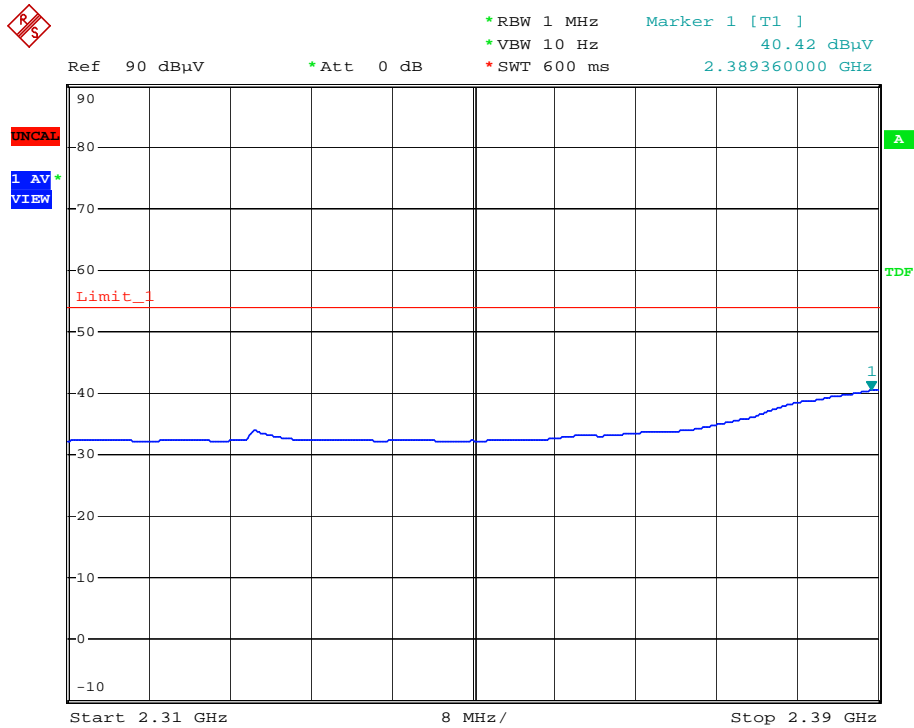




RESTRICTED BANDEDGE [802.11n (40MHz) MODE,CH1, VERTICAL]

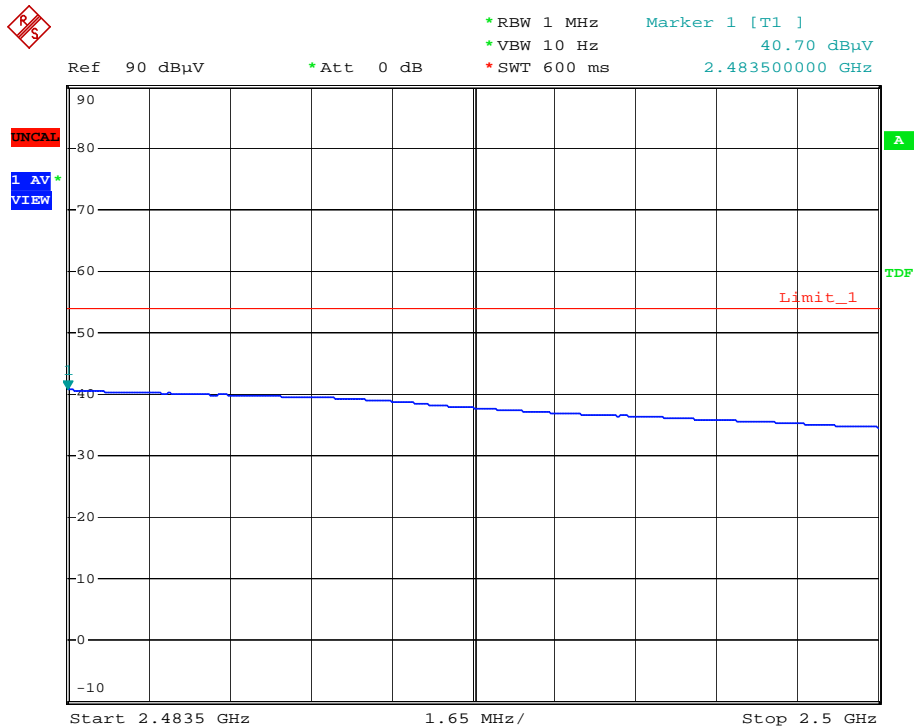
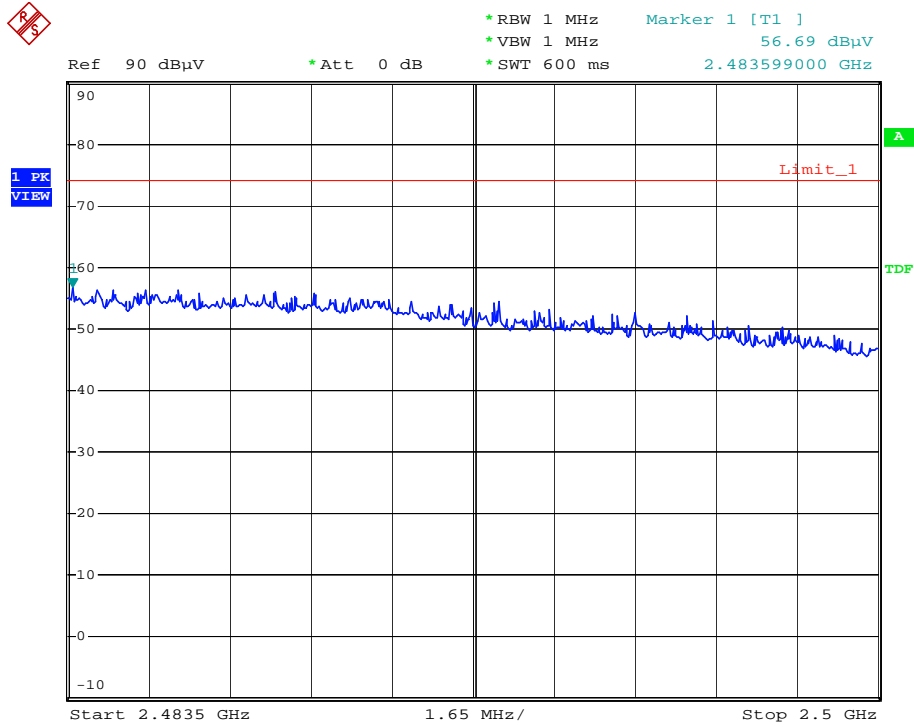


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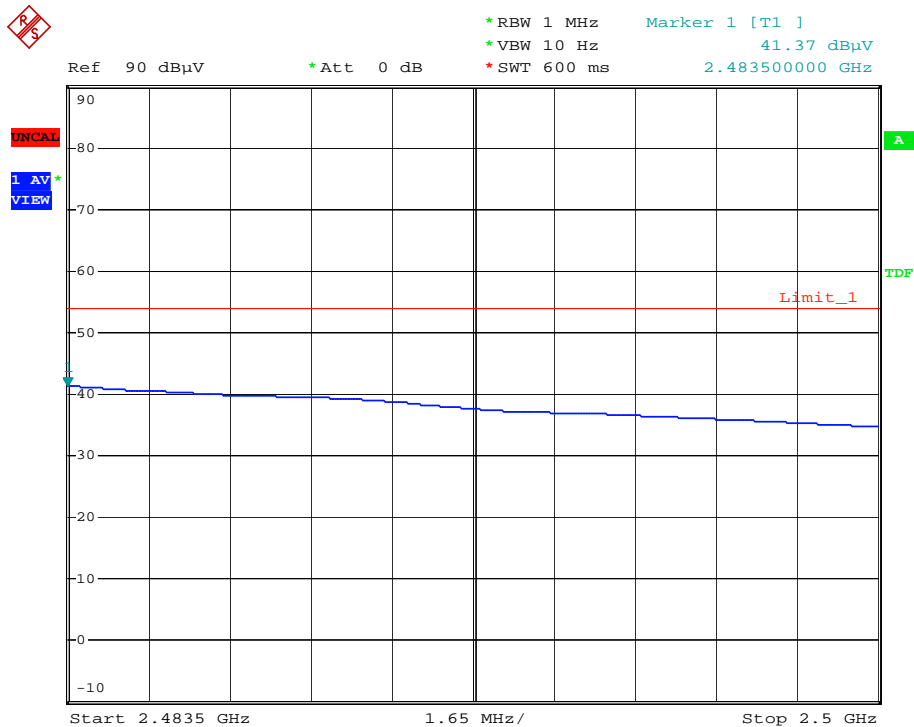
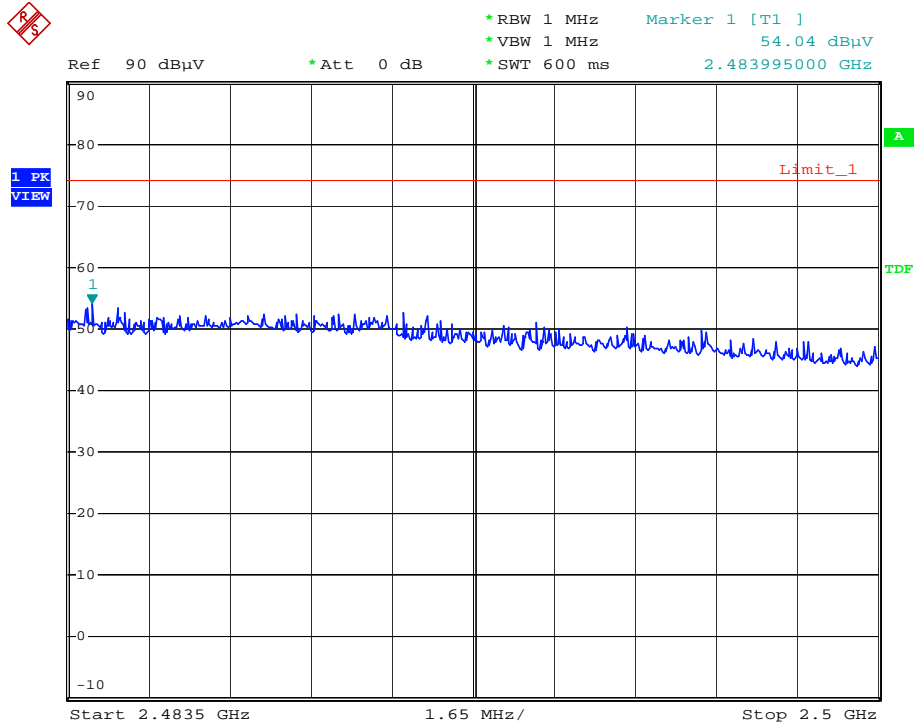


RESTRICTED BANDEDGE [802.11n (40MHz) MODE,CH7, HORIZONTAL]





RESTRICTED BANDEDGE [802.11n (40MHz) MODE,CH7, VERTICAL]



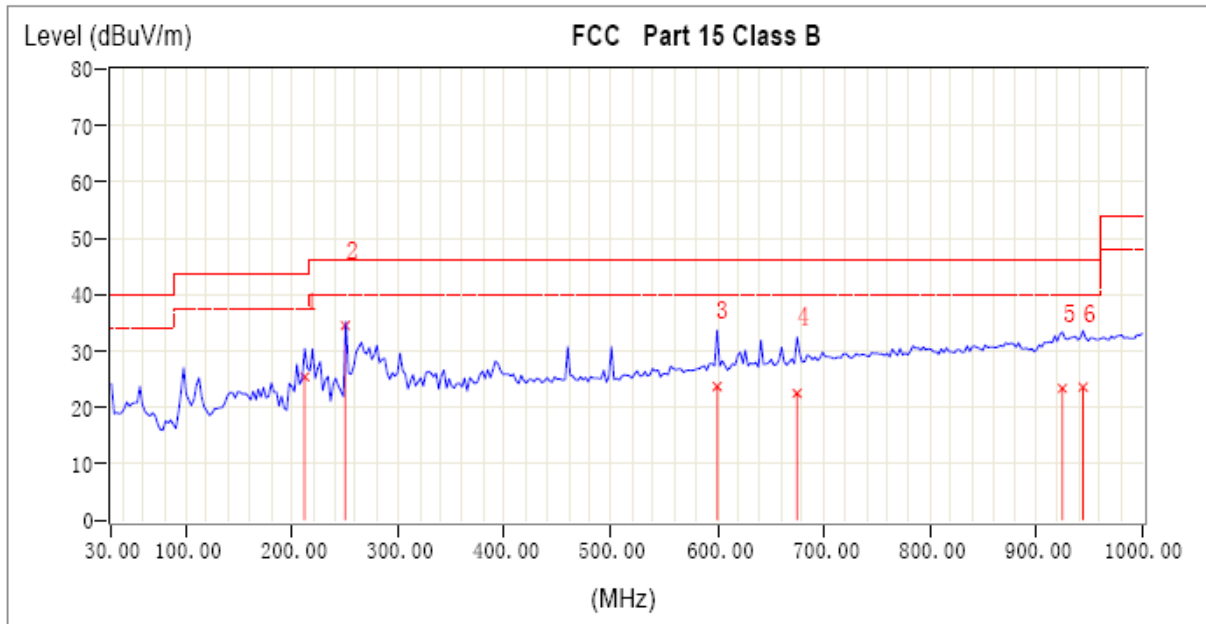


BELOW 1GHz WORST-CASE DATA : CCK MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH 999hPa	TESTED BY	Kevin Jiang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	211.87	13.05	12.36	25.41	43.50	-18.09	145	100
2	250.00	14.48	20.03	34.51	46.00	-11.49	127	106
3	599.87	22.88	0.79	23.67	46.00	-22.33	200	0
4	675.05	23.93	-1.47	22.46	46.00	-23.54	200	0
5	924.83	27.26	-3.91	23.35	46.00	-22.65	200	0
6	944.23	27.39	-3.81	23.58	46.00	-22.42	200	0

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.





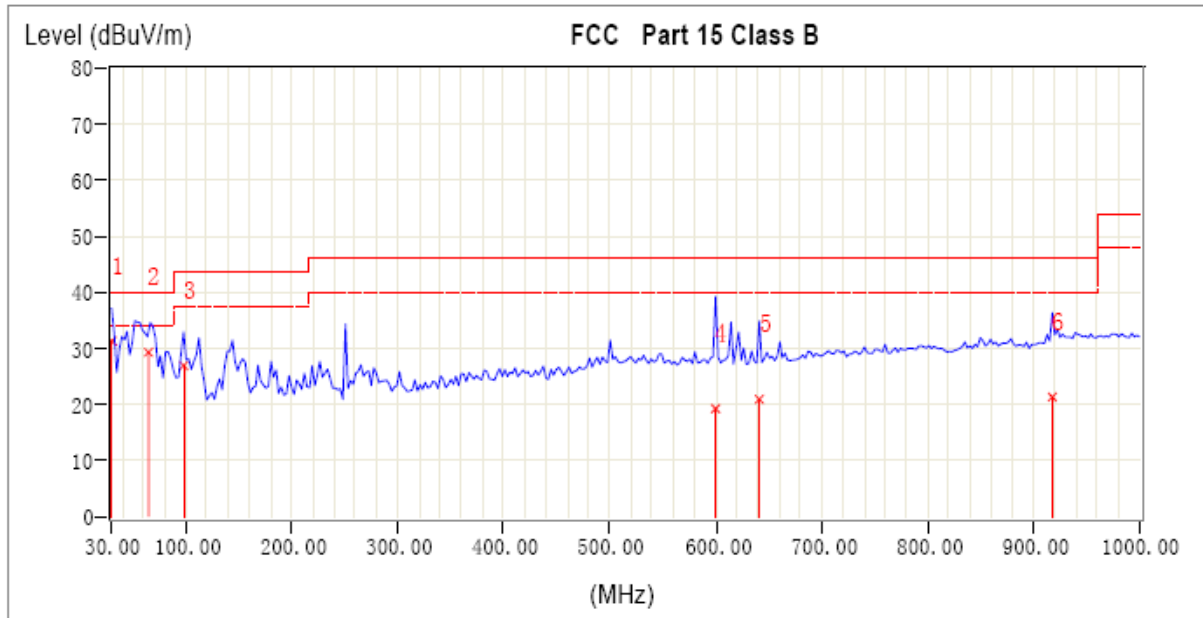
BUREAU
VERITAS

FCC ID: RS3IWI666

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH 999hPa	TESTED BY	Kevin Jiang

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	30.00	14.89	16.39	31.28	40.00	-8.72	100	0
2	64.78	13.75	15.53	29.28	40.00	-10.72	100	247
3	97.90	12.23	14.66	26.90	43.50	-16.60	100	0
4	599.87	22.88	-3.65	19.23	46.00	-26.77	100	0
5	641.10	23.50	-2.58	20.92	46.00	-25.08	100	0
6	917.55	26.88	-5.57	21.31	46.00	-24.69	100	0

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.





4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

- NOTE:** 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	E1R1002	May. 10, 2013
LISN ROHDE & SCHWARZ	ENV216	E1L1011	Oct. 09, 2013
RF signal cable Woken	RG-58	E1CBL09	Mar. 31, 2013
Software ADT	ADT_Cond_ V7.3.0	N/A	N/A

NOTE: The calibration interval of the above test instruments is 12 months.



4.2.3 TEST PROCEDURES

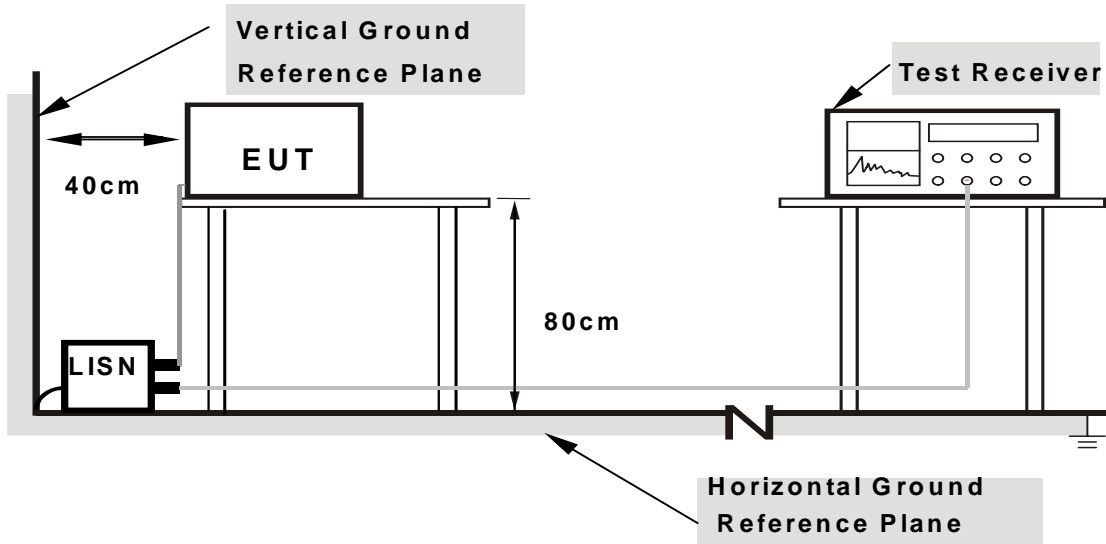
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.



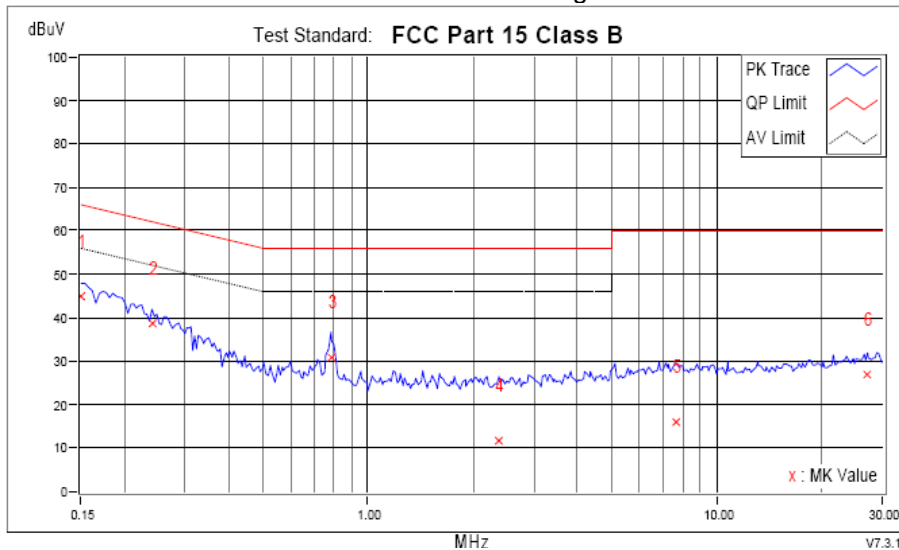
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA : CCK MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	L
MODULATION TYPE	CCK	INPUT POWER (SYSTEM)	120Vac, 60Hz
TRANSFER RATE	1.0Mbps	6dB BANDWIDTH	9kHz
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH, 988hPa	TESTED BY	Kevin JIANG

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.75	35.31	17.95	45.06	27.70	66.00	56.00	-20.94	-28.30
2	0.23993	9.61	28.96	13.37	38.57	22.98	62.10	52.10	-23.53	-29.12
3	0.78342	9.60	21.32	15.17	30.92	24.77	56.00	46.00	-25.08	-21.23
4	2.37632	9.61	2.29	-2.70	11.90	6.91	56.00	46.00	-44.10	-39.09
5	7.64309	9.66	6.45	0.65	16.11	10.31	60.00	50.00	-43.89	-39.69
6	27.16099	9.71	17.15	11.86	26.86	21.57	60.00	50.00	-33.14	-28.43

- REMARKS:
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

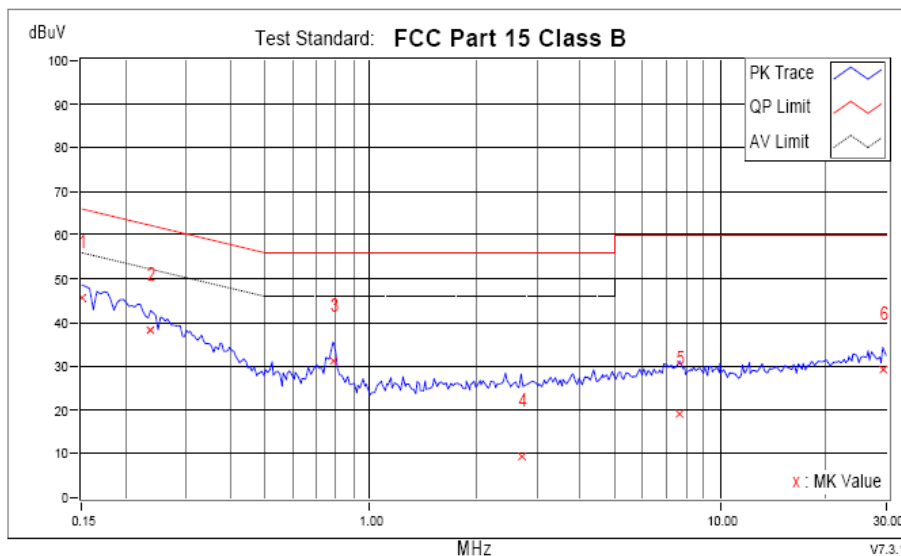




EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	N
MODULATION TYPE	CCK	INPUT POWER (SYSTEM)	120Vac, 60Hz
TRANSFER RATE	1.0Mbps	6dB BANDWIDTH	9kHz
ENVIRONMENTAL CONDITIONS	20deg. C, 50%RH, 988hPa	TESTED BY	Kevin JIANG

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15000	9.72	35.95	18.18	45.67	27.90	66.00
2	0.23602	9.62	28.71	10.39	38.33	20.01	62.24	52.24	-23.91	-32.23
3	0.78342	9.64	21.58	8.53	31.22	18.17	56.00	46.00	-24.78	-27.83
4	2.70476	9.64	-0.39	-6.08	9.25	3.56	56.00	46.00	-46.75	-42.44
5	7.66264	9.70	9.46	1.37	19.16	11.07	60.00	50.00	-40.84	-38.93
6	29.23720	9.93	19.31	12.04	29.24	21.97	60.00	50.00	-30.76	-28.03

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.





4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Signal Analyzer ROHDE & SCHWARZ	FSP30	E1S1002	Sep. 09, 2013

NOTE: The calibration interval of the above test instruments is 12 months.

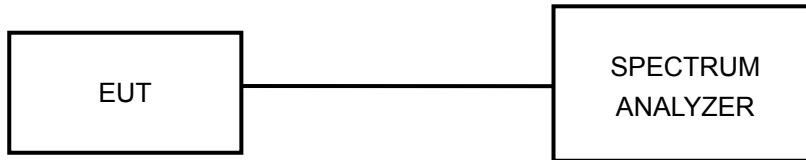
4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



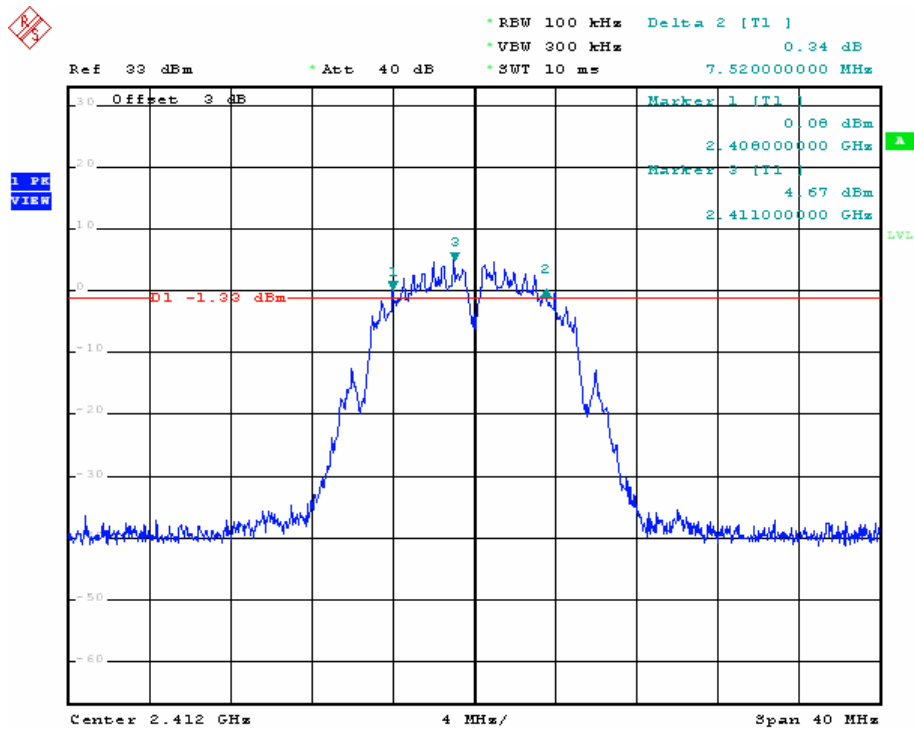
4.3.7 TEST RESULTS

802.11b DSSS MODULATION

MODULATION TYPE	CCK	TRANSFER RATE	1.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 50%RH, 991hPa
TESTED BY	Kevin JIANG		

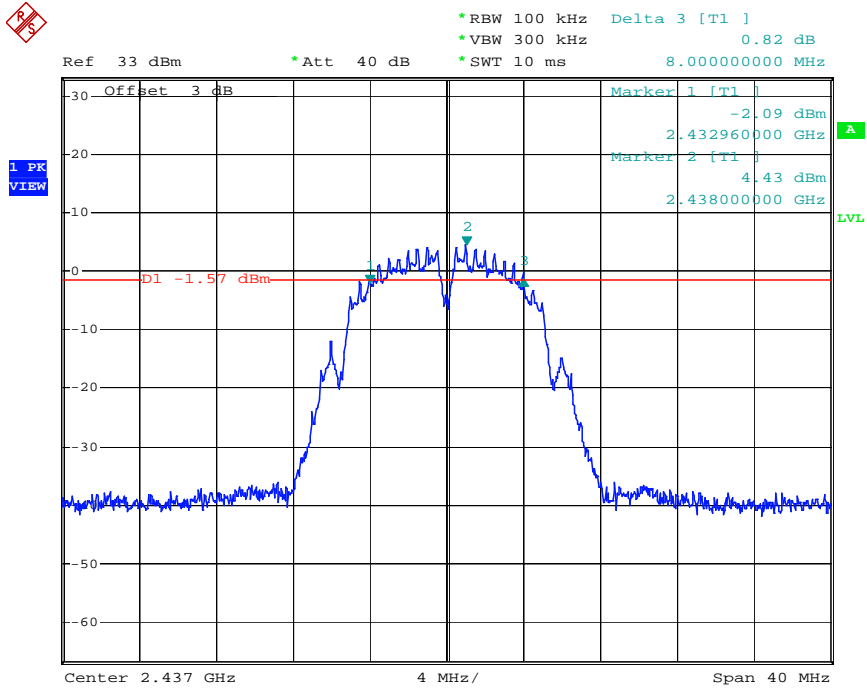
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	7.5	0.5	PASS
6	2437	8.0	0.5	PASS
11	2462	8.5	0.5	PASS

CH 1

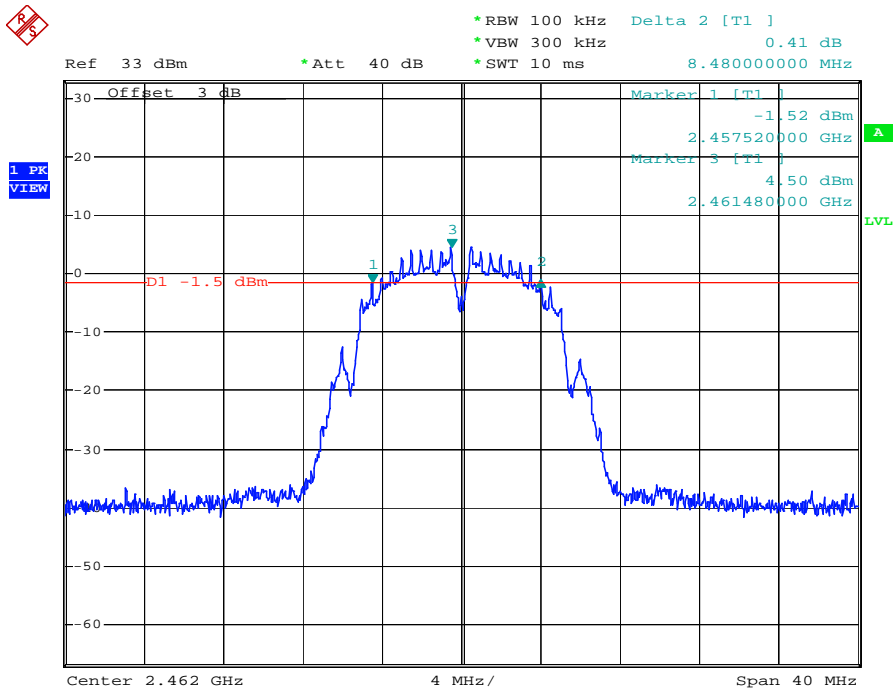




CH 6



CH 11



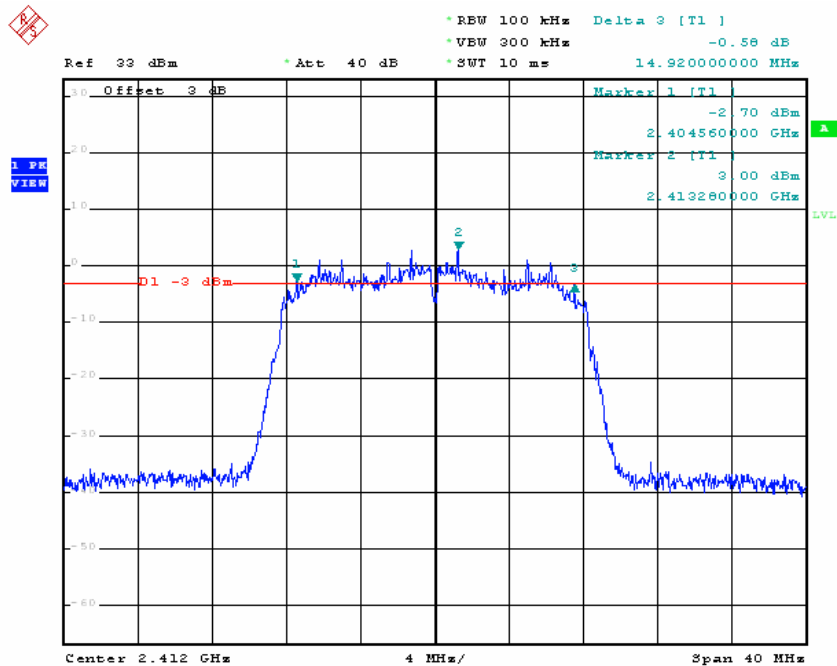


802.11g OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 50%RH, 991hPa
TESTED BY	Kevin JIANG		

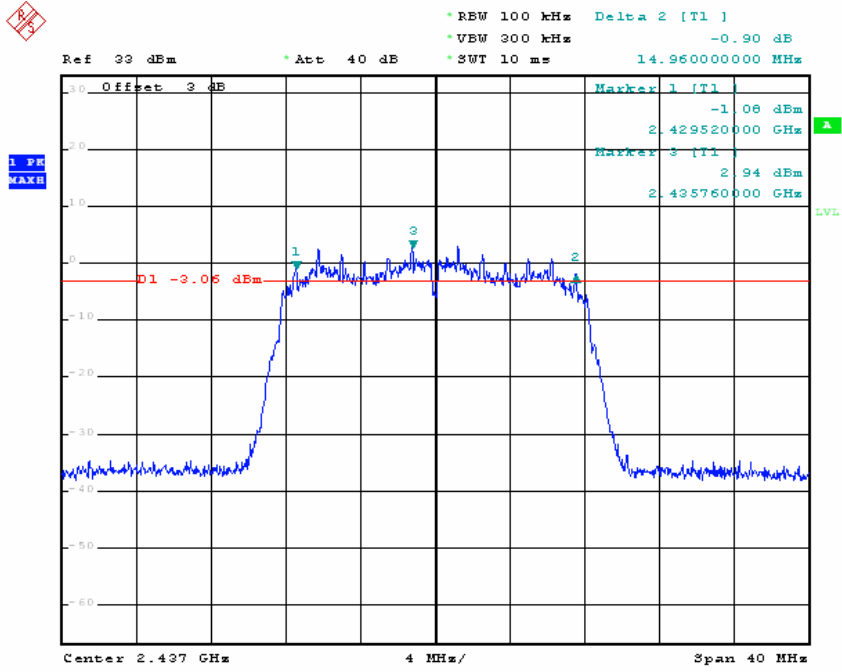
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	14.9	0.5	PASS
6	2437	15.0	0.5	PASS
11	2462	15.0	0.5	PASS

CH 1

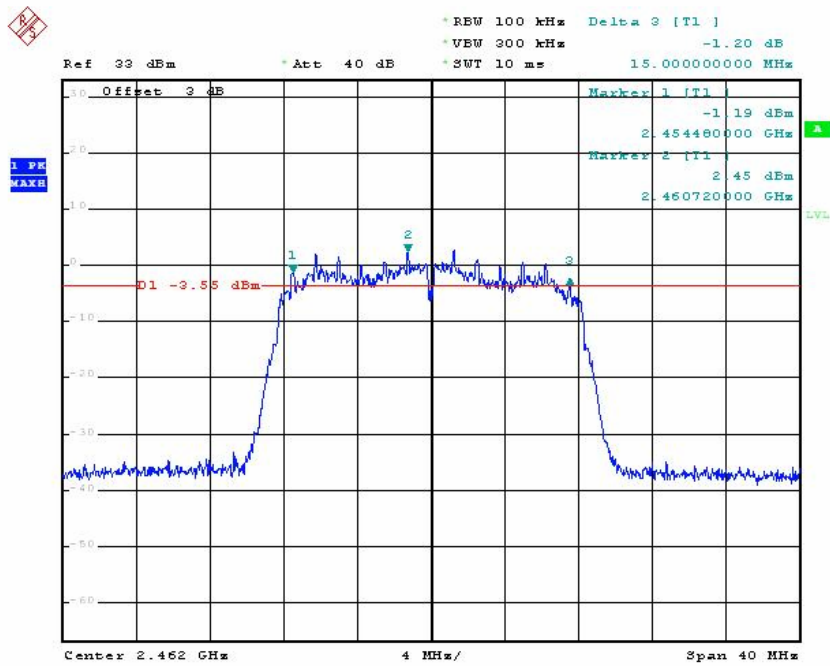




CH 6



CH 11





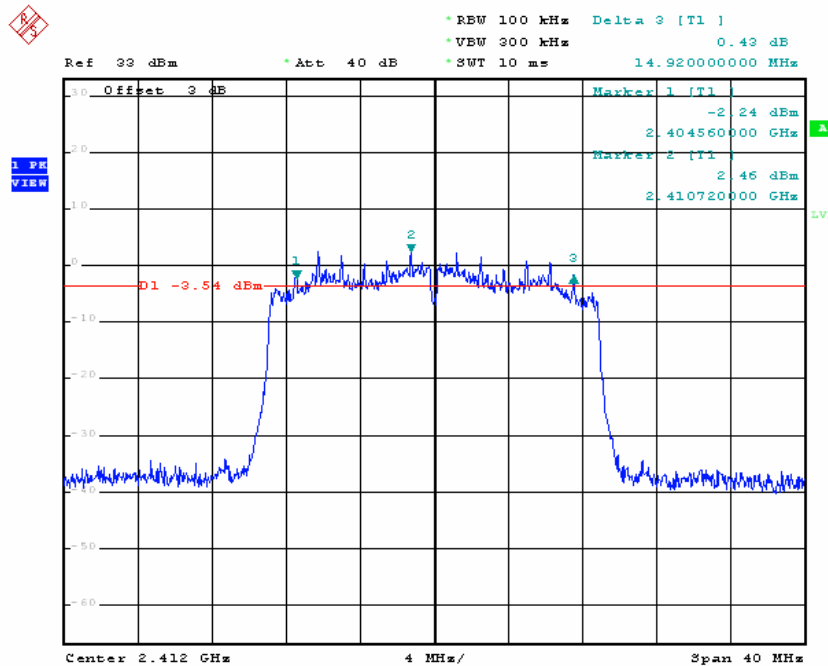
802.11n (20MHz) OFDM MODULATION

For chain 0

MODULATION TYPE	BPSK	TRANSFER RATE	54Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 50%RH, 991hPa
TESTED BY	Kevin JIANG		

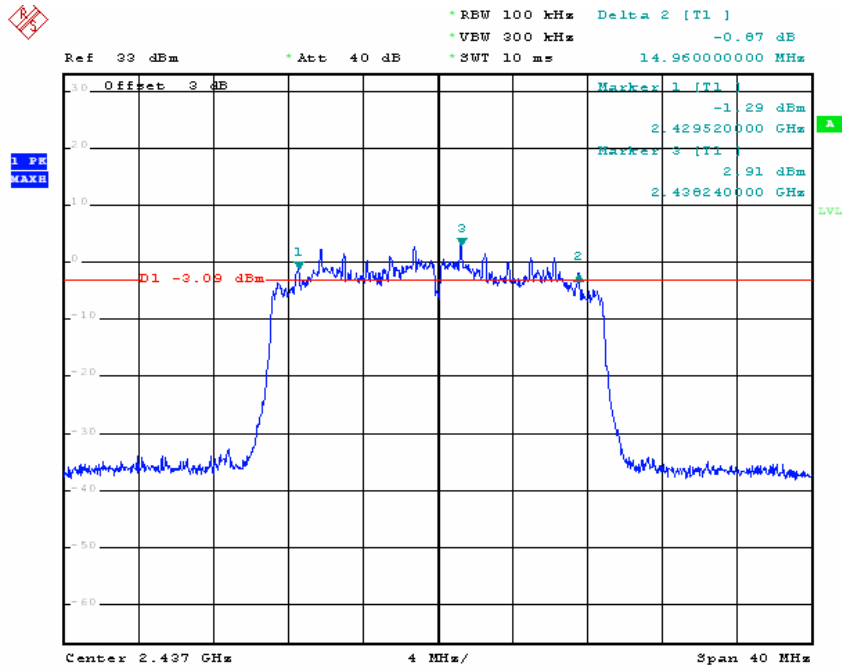
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	14.9	0.5	PASS
6	2437	15.0	0.5	PASS
11	2462	15.0	0.5	PASS

CH1

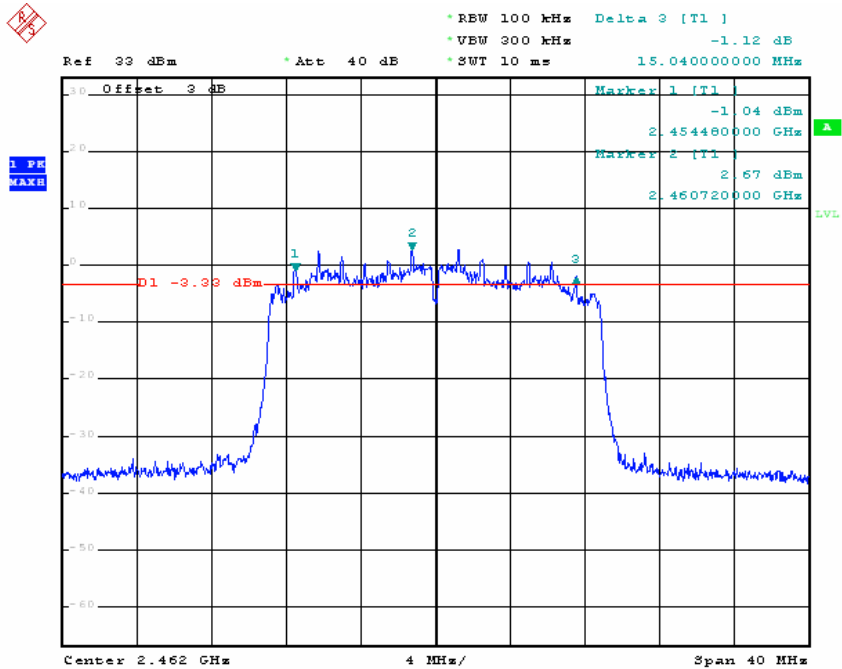




CH6



CH11



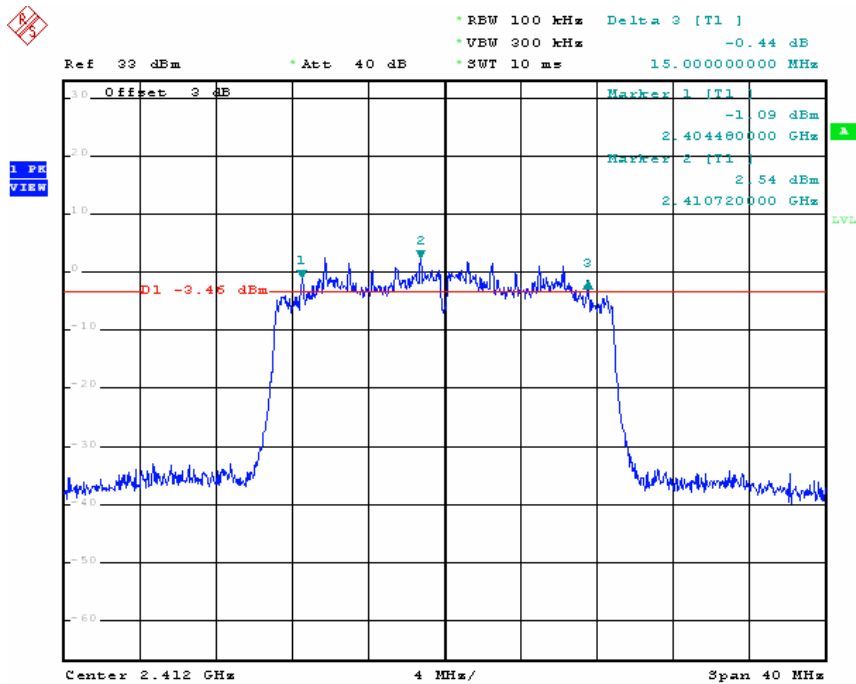


For chain 1

MODULATION TYPE	BPSK	TRANSFER RATE	54Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 50%RH, 991hPa
TESTED BY	Kevin JIANG		

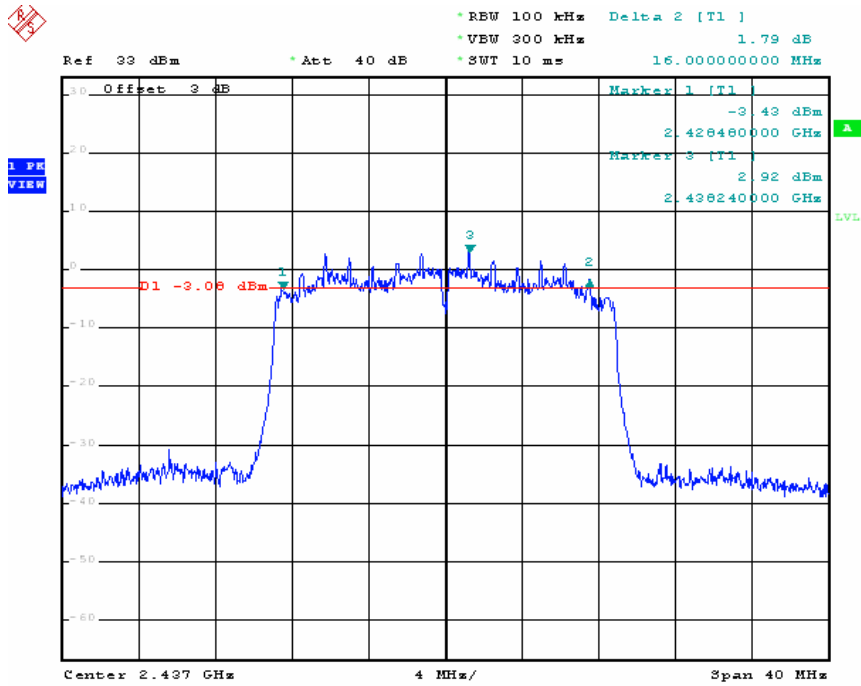
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	15.0	0.5	PASS
6	2437	16.0	0.5	PASS
11	2462	16.0	0.5	PASS

CH1

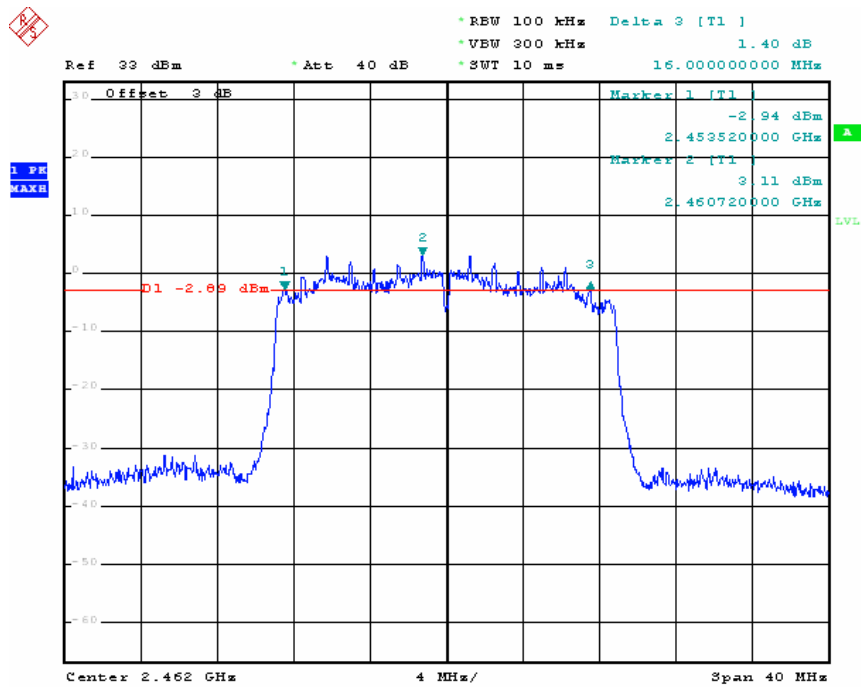




CH6



CH11





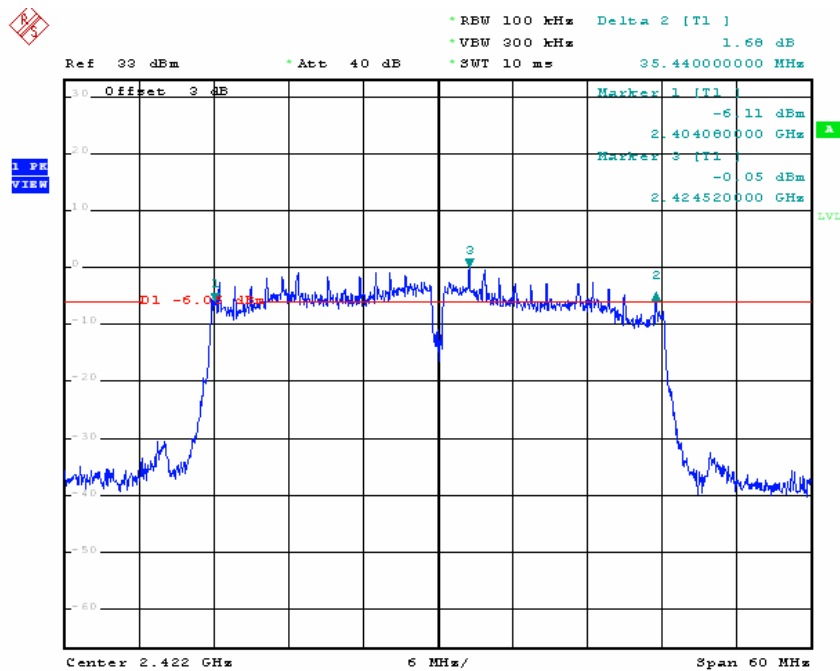
802.11n (40MHz) OFDM MODULATION

For chain 0

MODULATION TYPE	BPSK	TRANSFER RATE	7Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 50%RH, 991hPa
TESTED BY	Kevin JIANG		

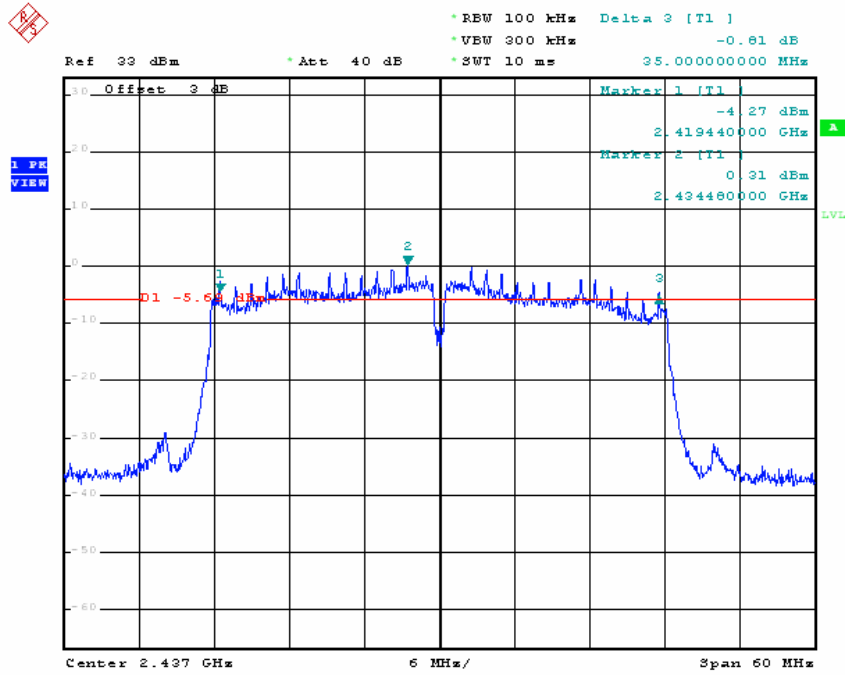
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2422	35.4	0.5	PASS
4	2437	35.0	0.5	PASS
7	2452	35.0	0.5	PASS

CH1

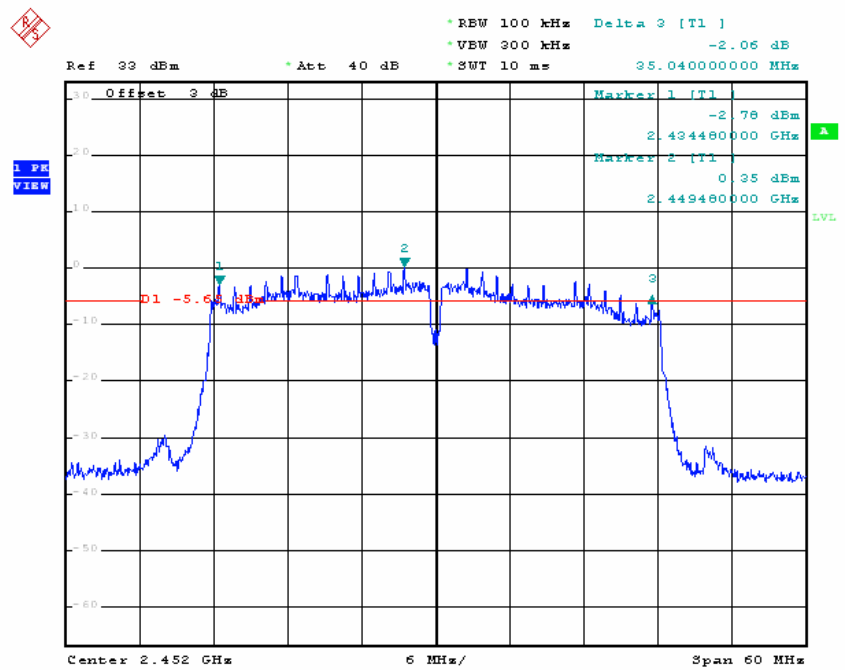




CH4



CH7



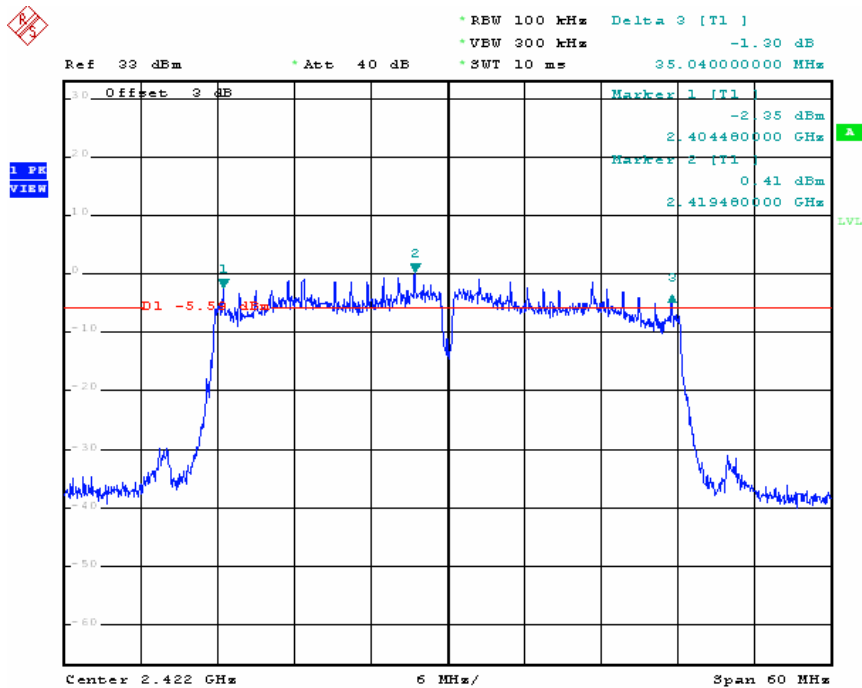


For chain 1

MODULATION TYPE	BPSK	TRANSFER RATE	7Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 50%RH, 991hPa
TESTED BY	Kevin JIANG		

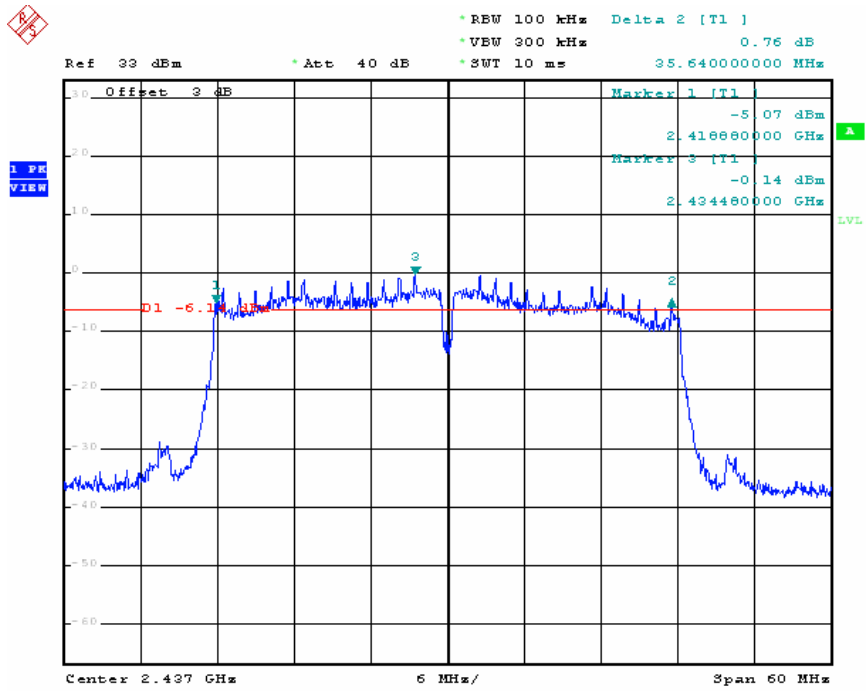
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2422	35.0	0.5	PASS
4	2437	35.6	0.5	PASS
7	2452	35.6	0.5	PASS

CH1

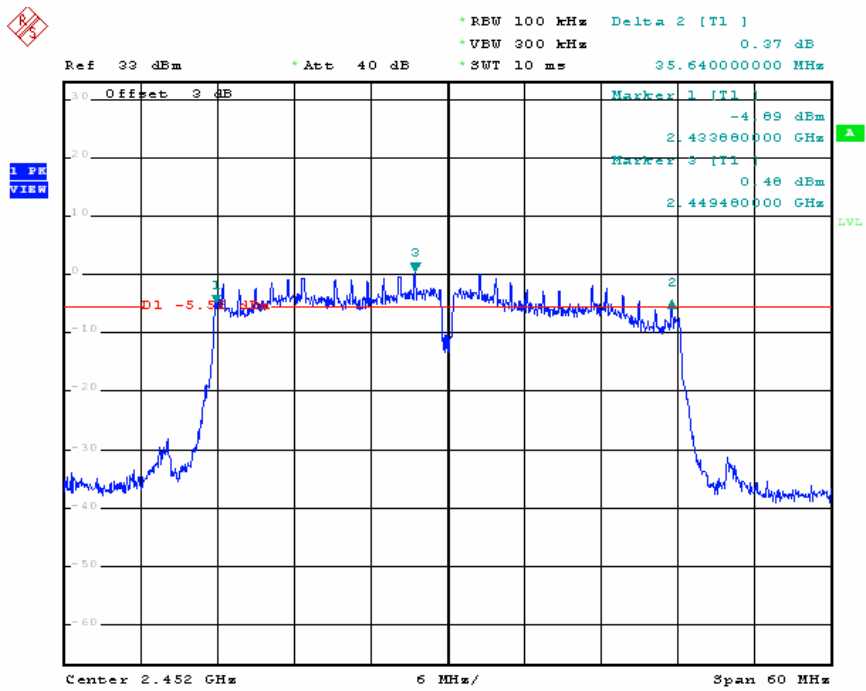




CH4



CH7





4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Signal Analyzer ROHDE & SCHWARZ	FSP30	E1S1002	Sep. 09, 2013

NOTE: The calibration interval of the above test instruments is 12 months.

4.4.3 TEST PROCEDURES

- a. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
- b. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
- c. Adjusted the power to have the same reading on oscilloscope. Record the power level.



4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6



4.4.7 TEST RESULTS

802.11b DSSS MODULATION

MODULATION TYPE	CCK	TRANSFER RATE	1.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 50%RH, 991hPa
TESTED BY	Kevin JIANG		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	27.10	14.33	30	PASS
6	2437	27.86	14.45	30	PASS
11	2462	27.42	14.38	30	PASS

802.11g OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20 deg.C, 50 %RH, 991hPa
TESTED BY	Kevin JIANG		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	50.35	17.02	30	PASS
6	2437	47.64	16.78	30	PASS
11	2462	45.60	16.59	30	PASS



802.11n (20MHz) OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	54Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20 deg.C, 50 %RH, 991hPa
TESTED BY	Kevin JIANG		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER(dBm)		PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	16.23	16.94	91.41	19.61	30	PASS
6	2437	17.01	17.95	112.61	20.52	30	PASS
11	2462	16.84	16.88	97.06	19.87	30	PASS

802.11n (40MHz) OFDM MODULATION:

MODULATION TYPE	BPSK	TRANSFER RATE	7Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 50%RH, 991hPa
TESTED BY	Kevin JIANG		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER(dBm)		PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2422	16.79	16.57	93.15	19.69	30	PASS
4	2437	16.32	16.55	88.04	19.45	30	PASS
7	2452	16.54	16.02	85.08	19.30	30	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Signal Analyzer ROHDE & SCHWARZ	FSP30	E1S1002	Sep. 09, 2013

NOTE: The calibration interval of the above test instruments is 12 months.

4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 100kHz RBW and 300kHz VBW, set sweep time = auto couple. The power spectral density was measured and recorded.

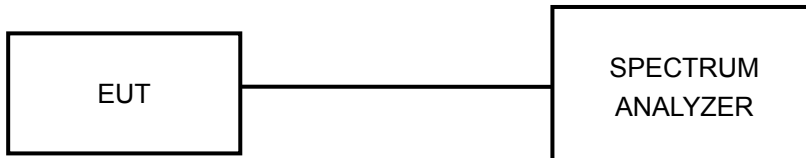


FCC ID: RS3IWI666

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6



4.5.7 TEST RESULTS

802.11b DSSS MODULATION

MODULATION TYPE	CCK	TRANSFER RATE	1.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 50%RH, 991hPa
TESTED BY	Kevin JIANG		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 100kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2412	4.52	8	PASS
6	2437	4.51	8	PASS
11	2462	4.67	8	PASS

802.11g OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 50%RH, 991hPa
TESTED BY	Kevin JIANG		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 100kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2412	2.24	8	PASS
6	2437	2.01	8	PASS
11	2462	2.10	8	PASS



802.11n (20MHz) OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	54Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20deg.C, 50%RH, 991hPa
TESTED BY	Kevin JIANG		

CHANNEL	CHANNEL FREQUENCY (MHz)	POWER DENSITY(dBm)		RF POWER LEVEL IN 100kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1			
1	2412	2.23	1.89	5.07	8	PASS
6	2437	2.36	2.27	5.33	8	PASS
11	2462	2.28	2.19	5.25	8	PASS

802.11n (40MHz) OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	7Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20 deg.C, 50 %RH, 991hPa
TESTED BY	Kevin JIANG		

CHANNEL	CHANNEL FREQUENCY (MHz)	POWER DENSITY(dBm)		RF POWER LEVEL IN 100kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1			
1	2422	-0.23	-0.46	2.67	8	PASS
4	2437	-0.05	-0.09	2.94	8	PASS
7	2452	-0.14	-0.21	2.84	8	PASS



4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Signal Analyzer ROHDE & SCHWARZ	FSP30	E1S1002	Sep. 09, 2013

NOTE: The calibration interval of the above test instruments is 12 months.



4.6.3 TEST PROCEDURE

FOR CONDUCTED MEASUREMENT:

The transmitter output was connected to the spectrum analyzer via a low loss cable. Set both RBW and VBW of spectrum analyzer to 100kHz and 300kHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW = 100kHz, VBW = 300kHz) are attached on the following pages.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

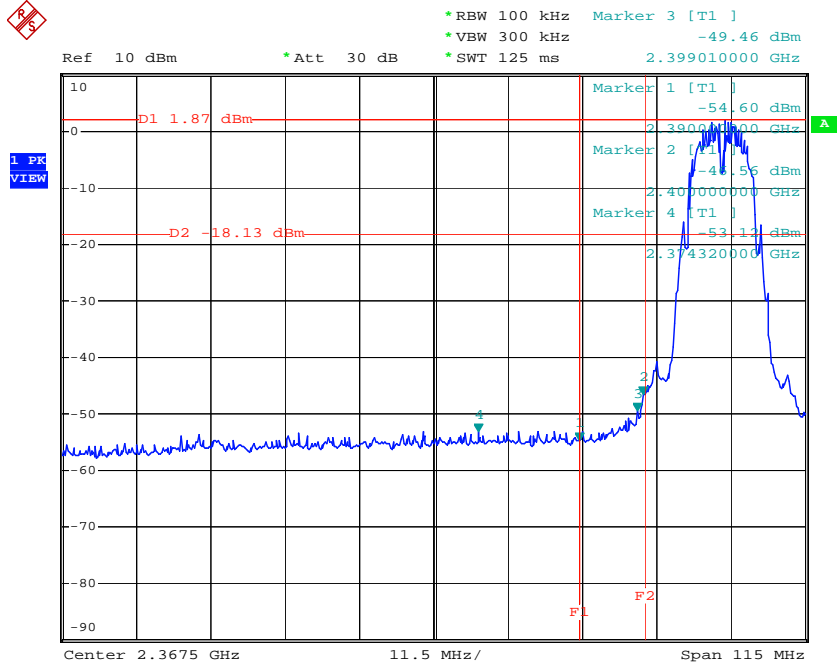
Same as Item 4.3.6



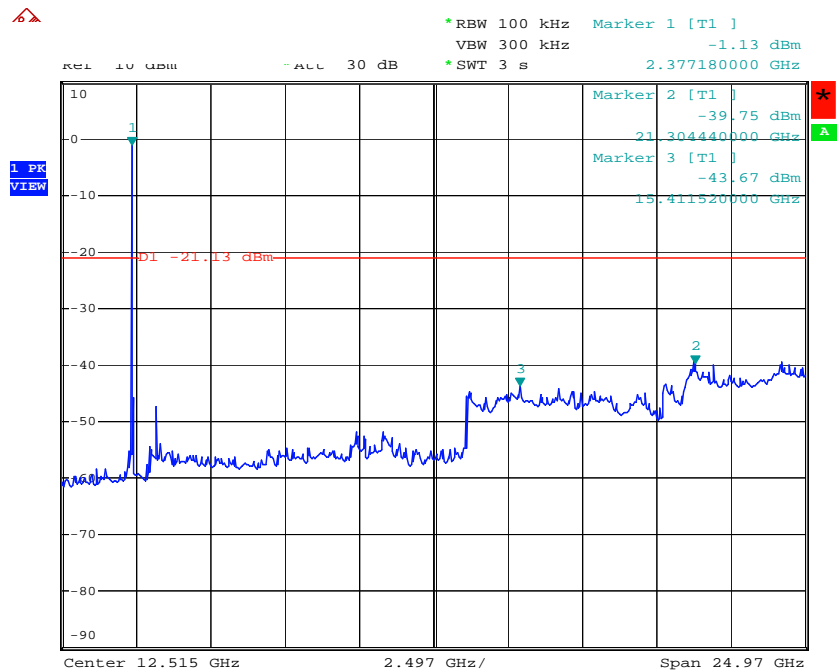
4.6.6 TEST RESULTS

802.11b DSSS modulation

CH 1



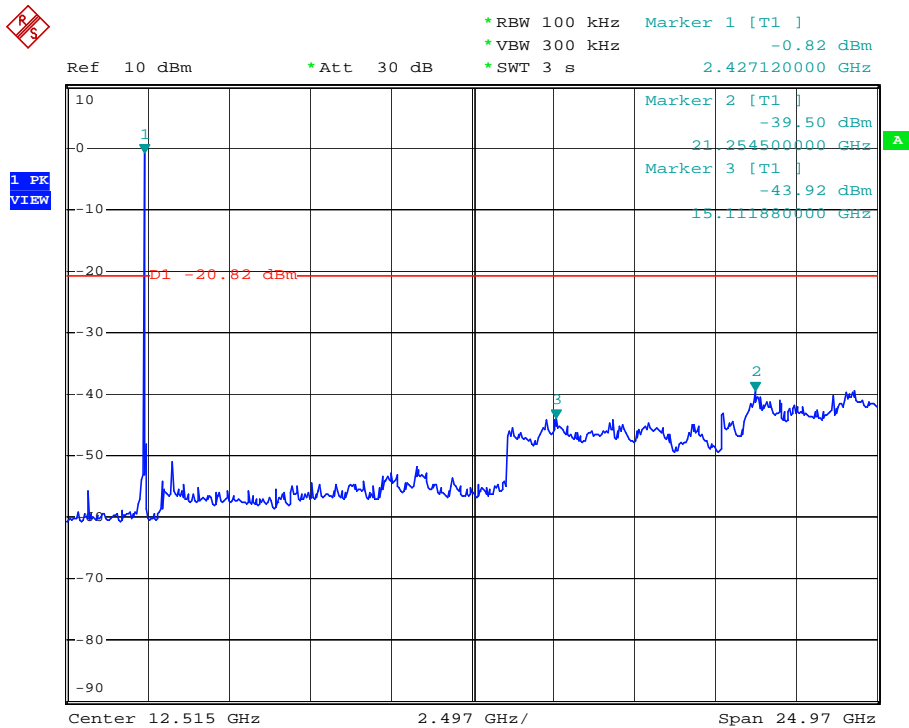
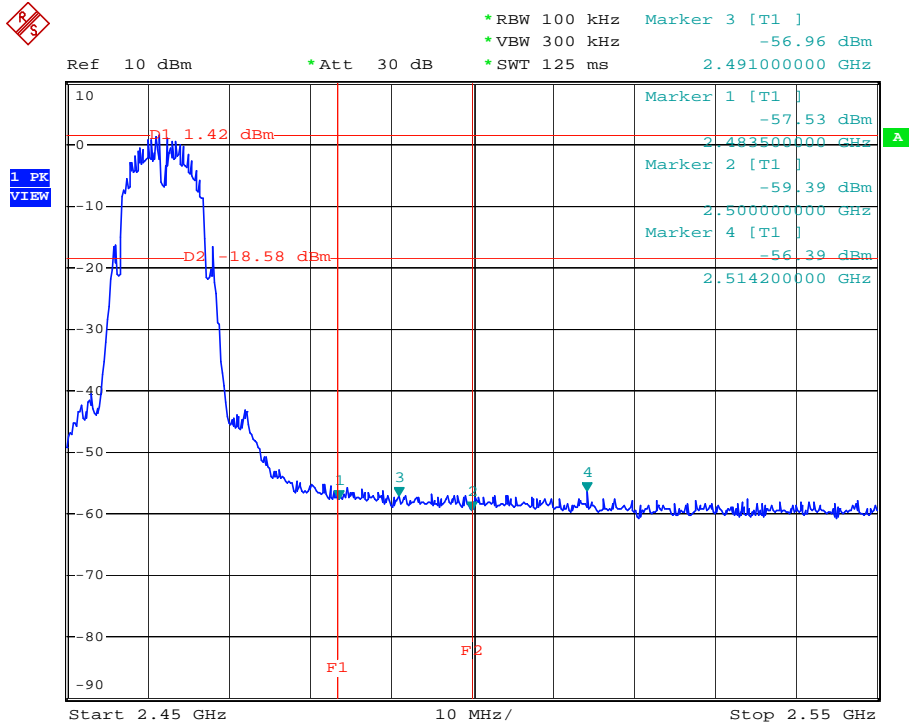
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Date: 1.JAN.2000 00:20:30



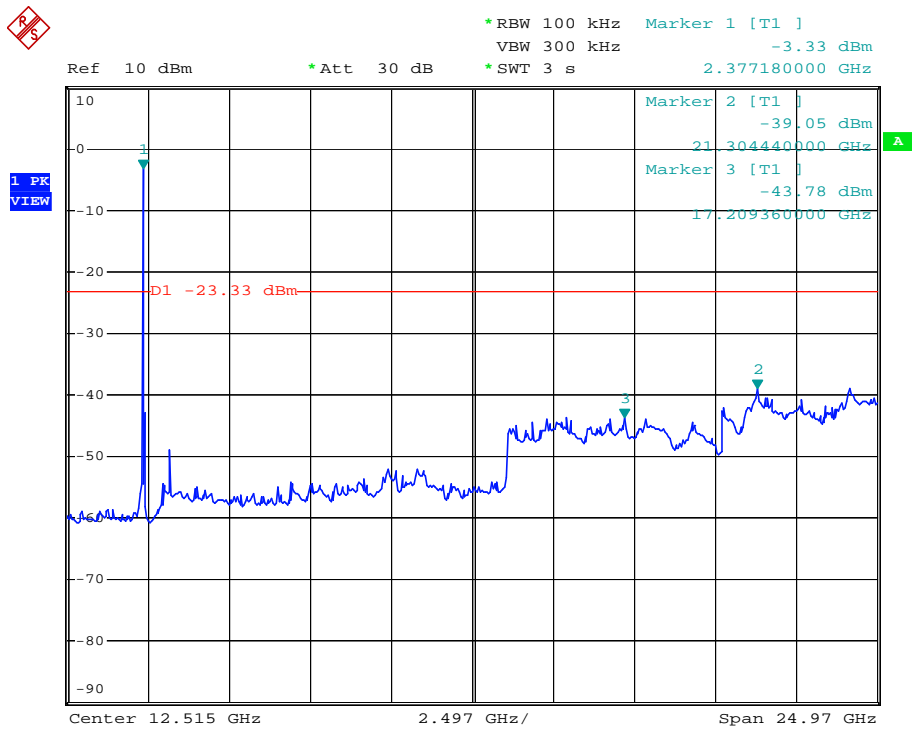
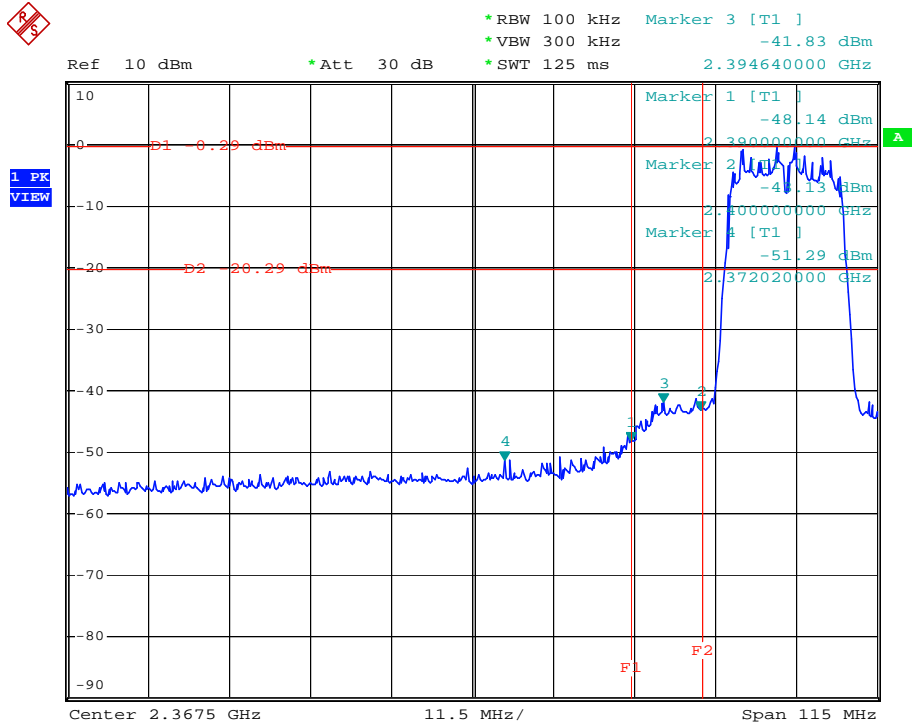
CH 11





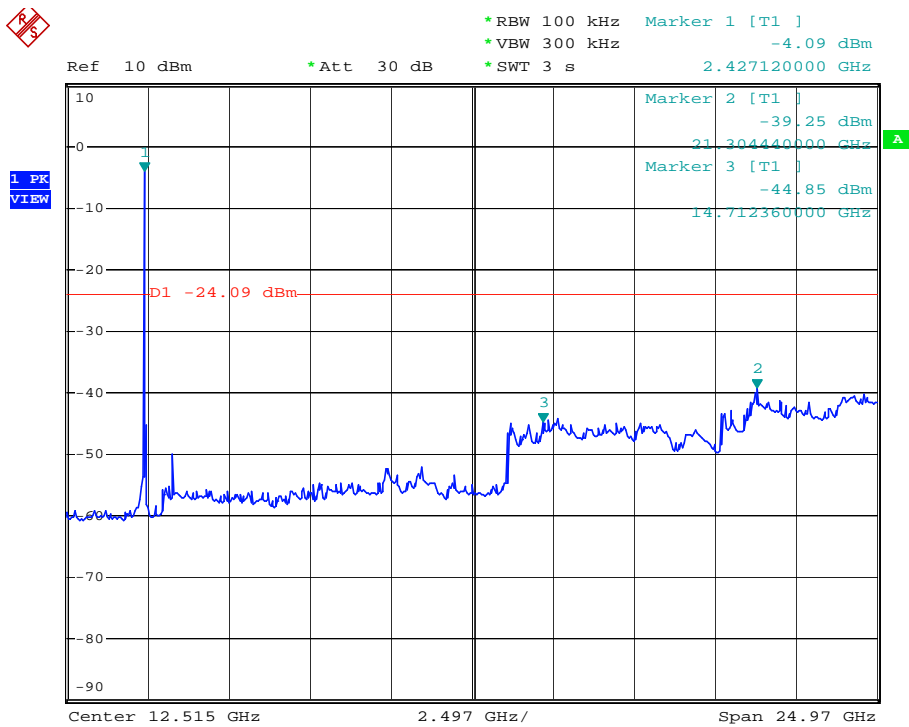
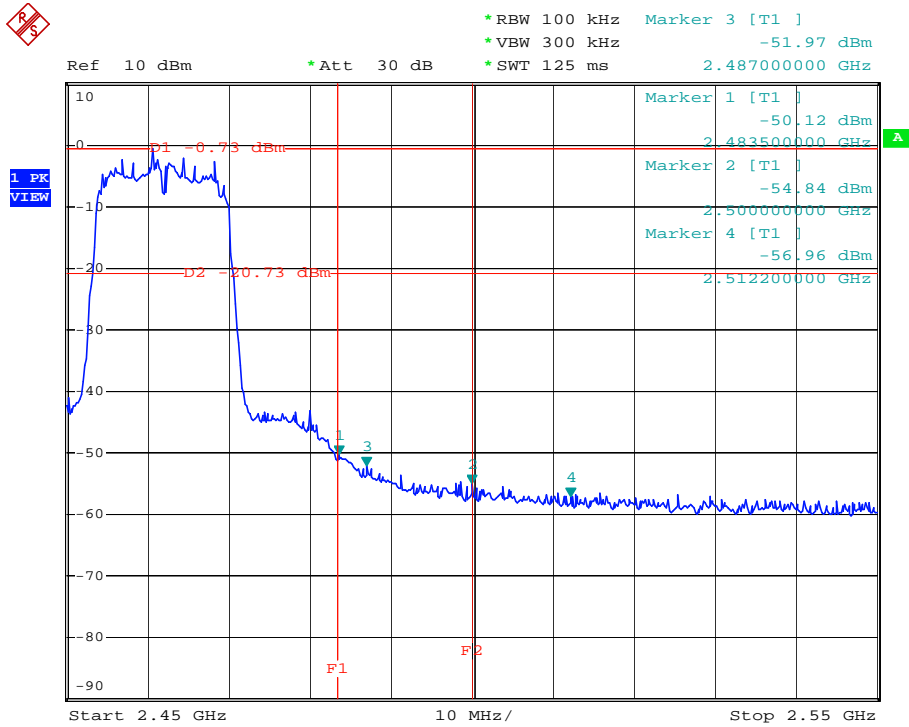
802.11g OFDM MODULATION

CH 1





CH 11

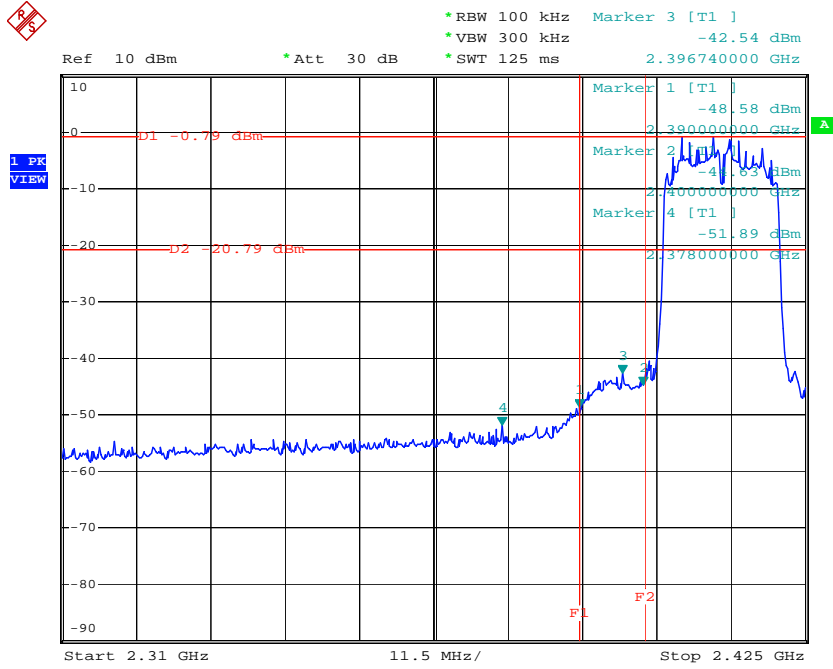




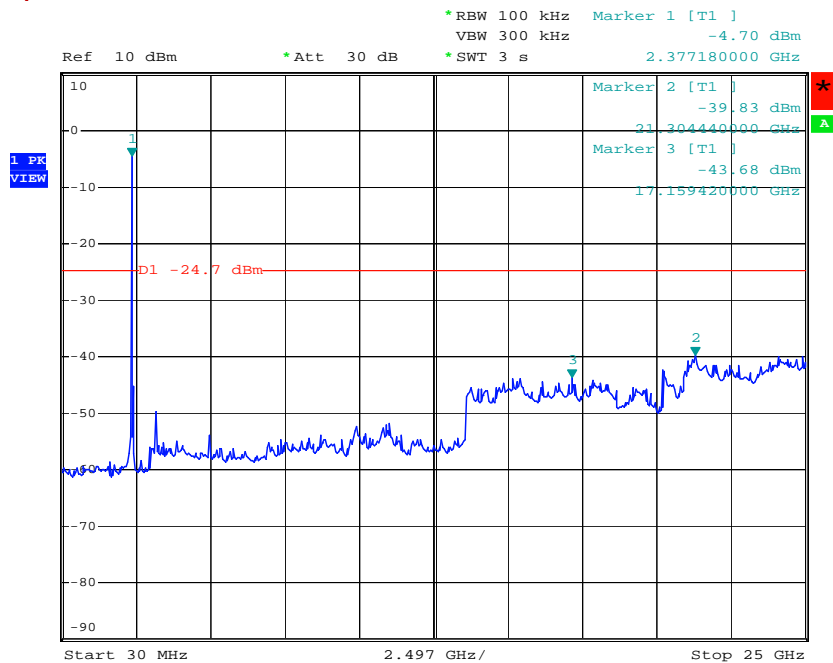
802.11n (20MHz) OFDM MODULATION

For chain 0

CH1



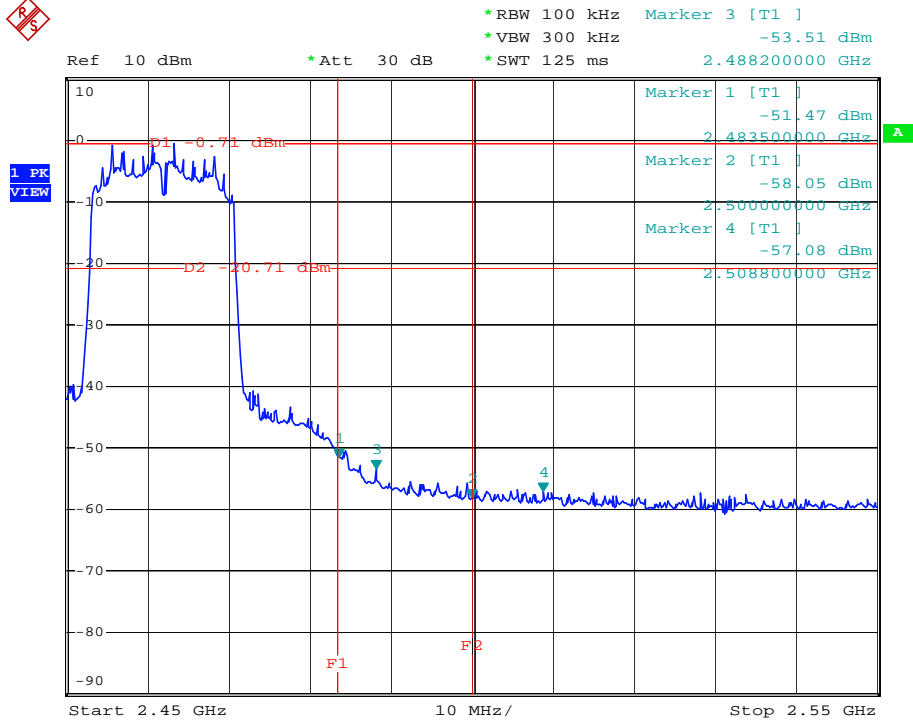
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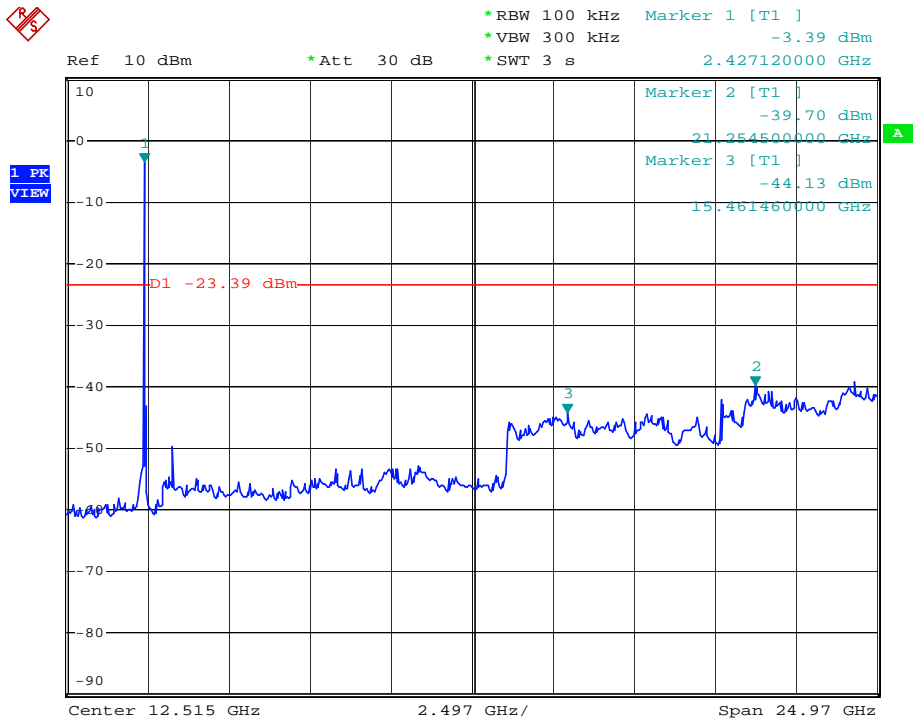
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CH11



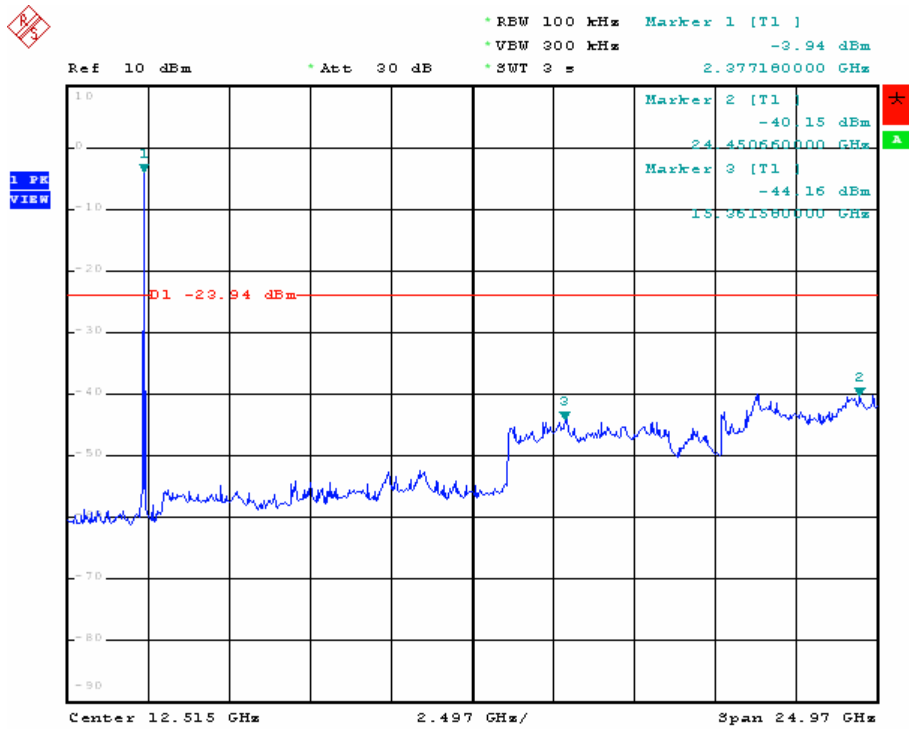
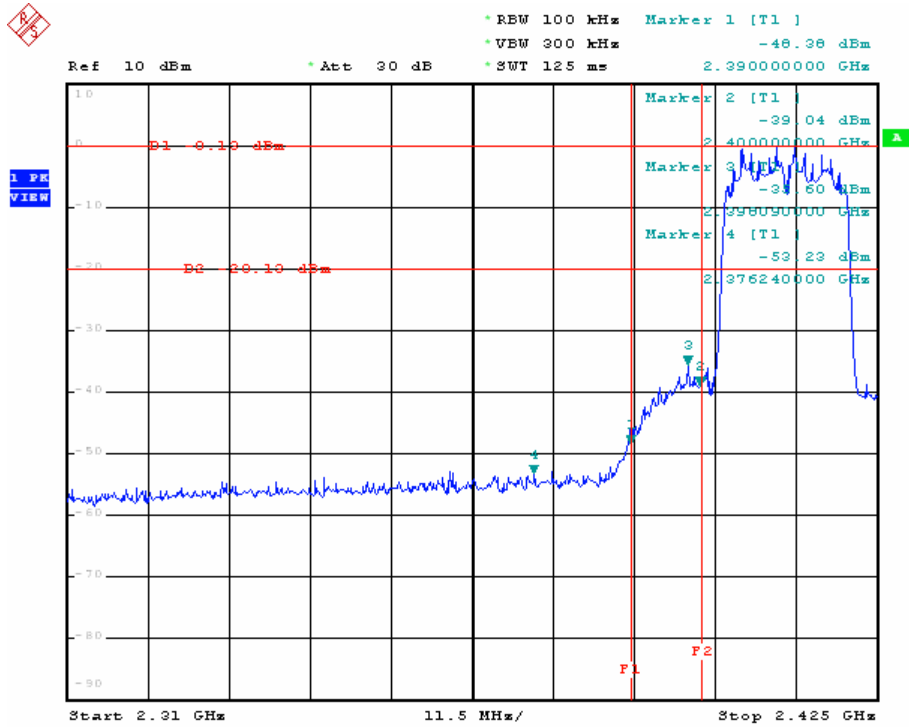
I





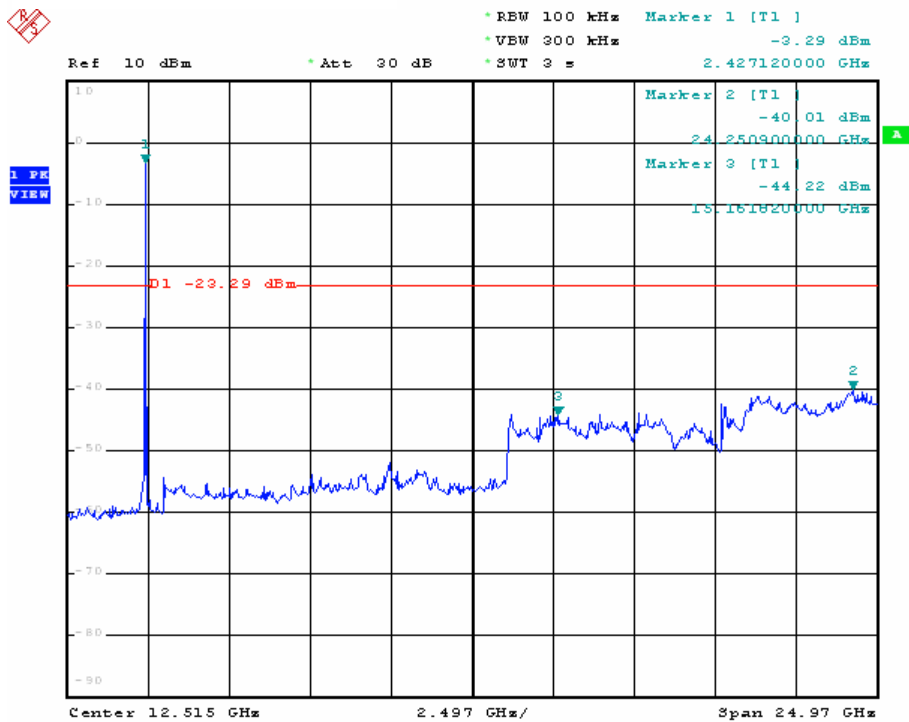
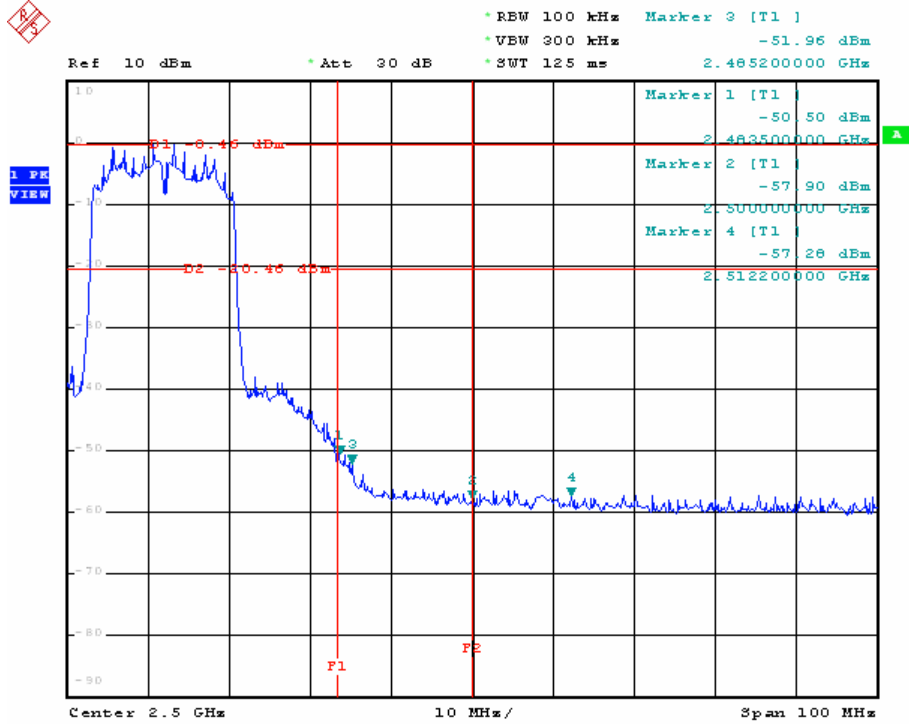
For chain 1

CH1





CH11

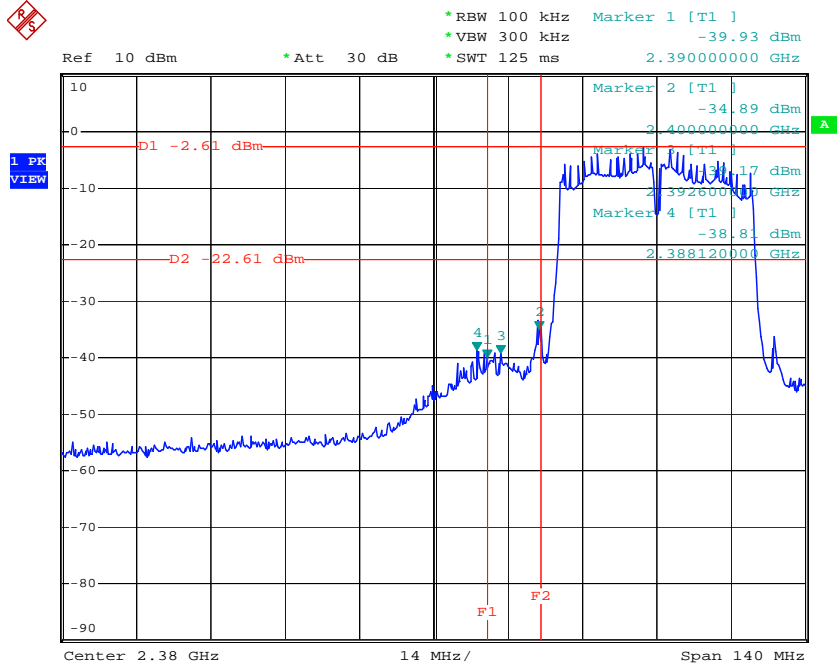




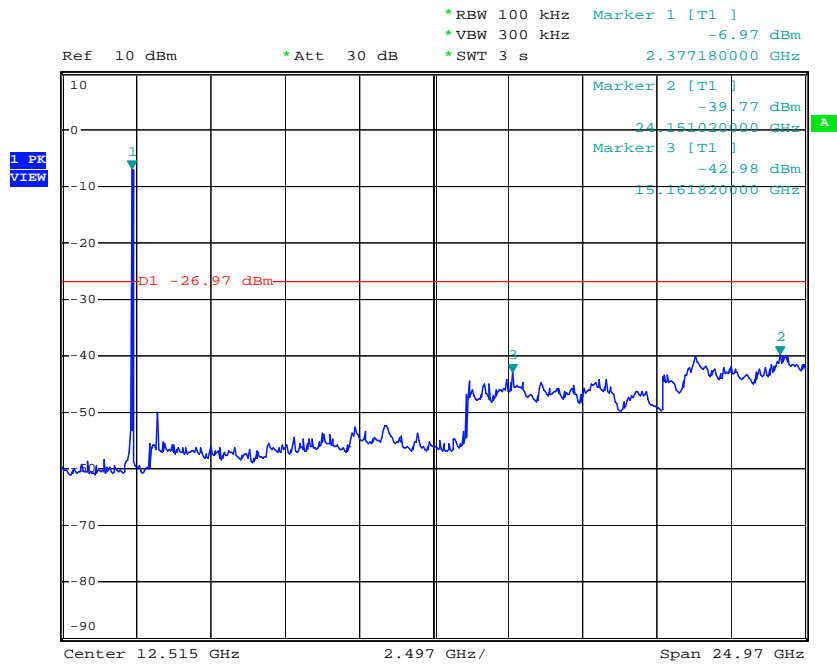
802.11n (40MHz) OFDM MODULATION

For chain 0

CH1



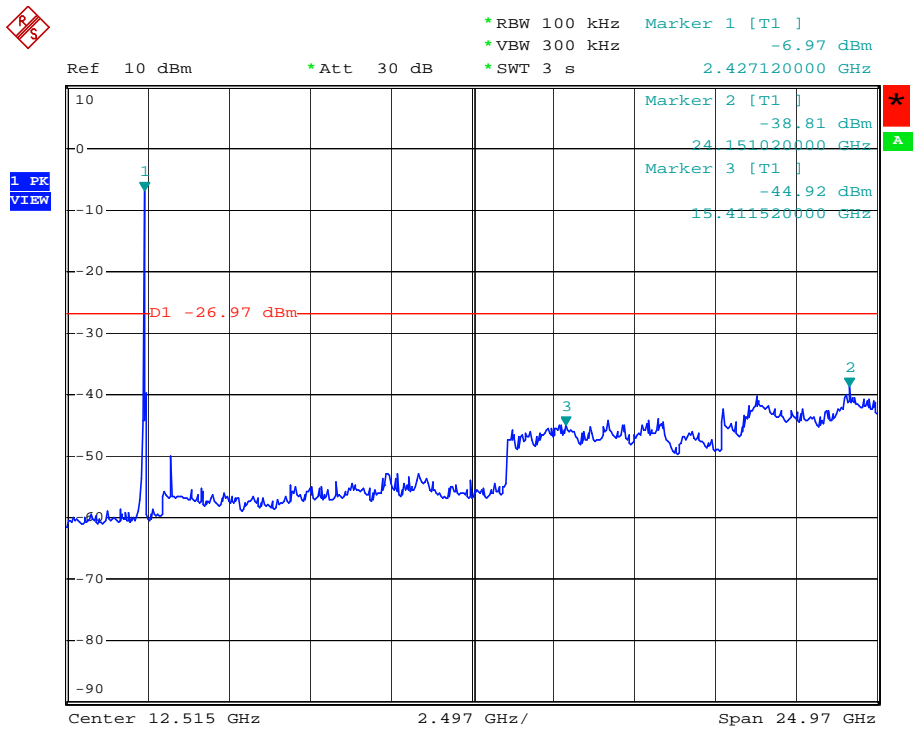
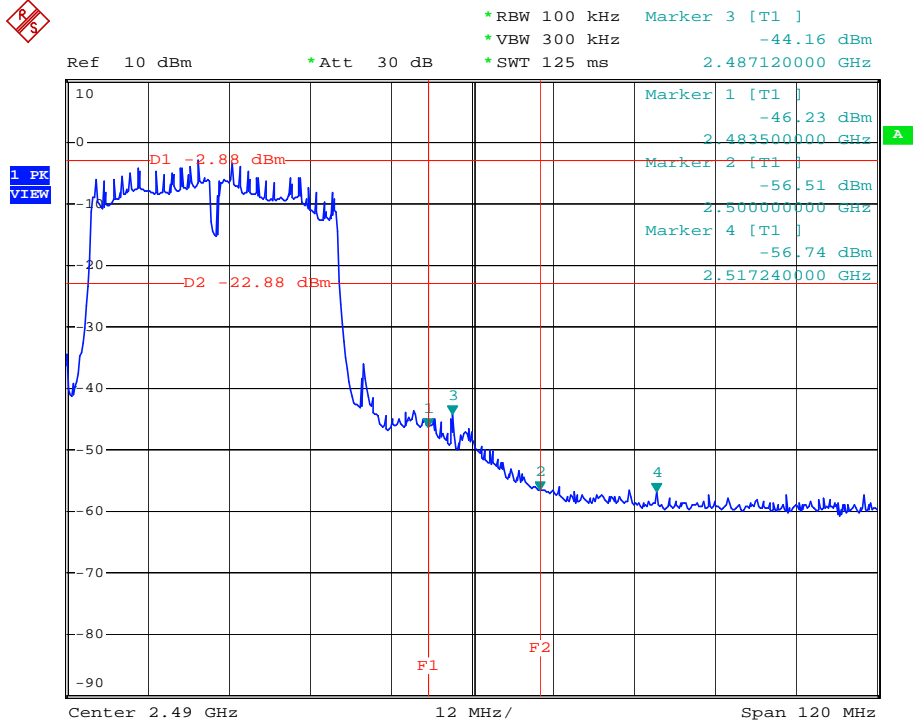
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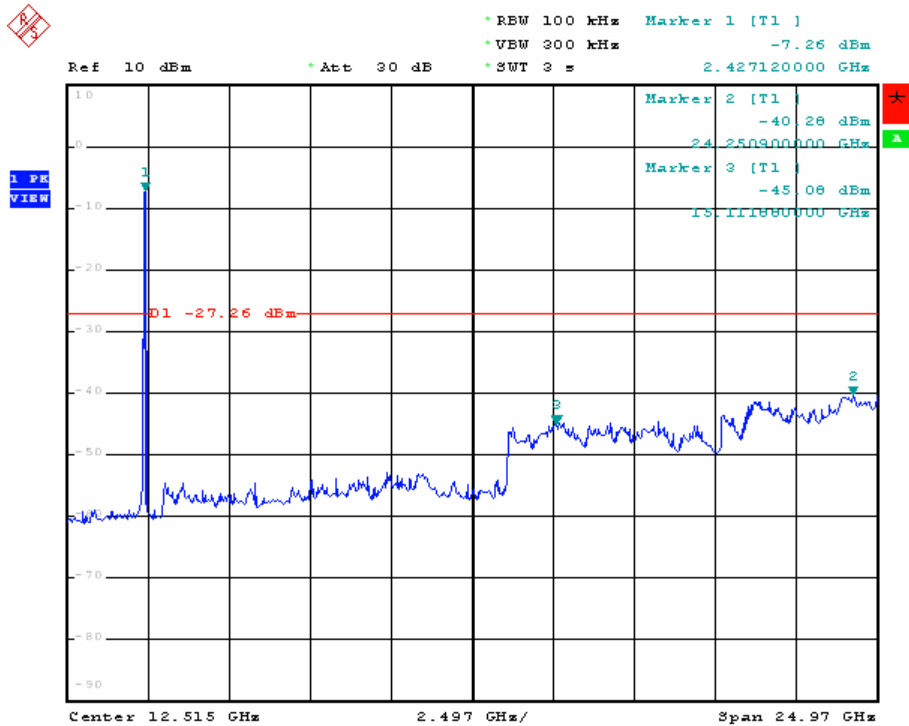
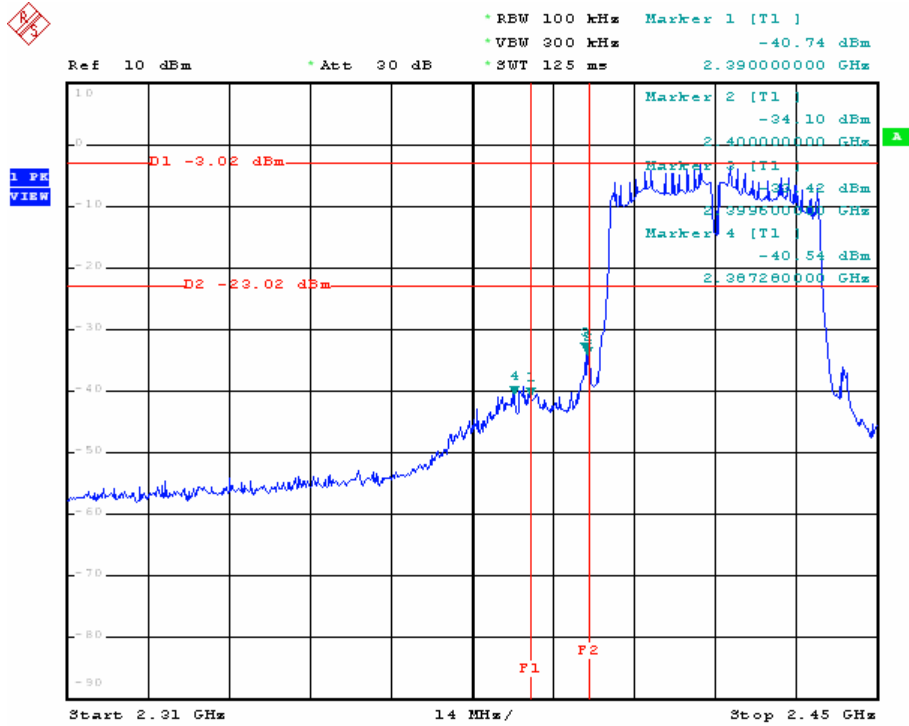
CH7





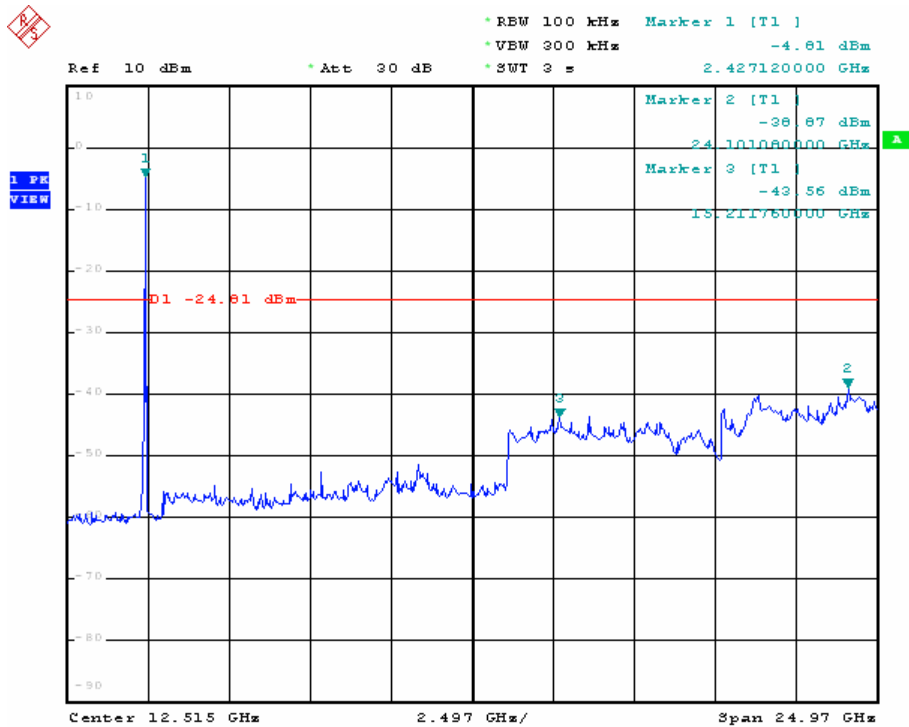
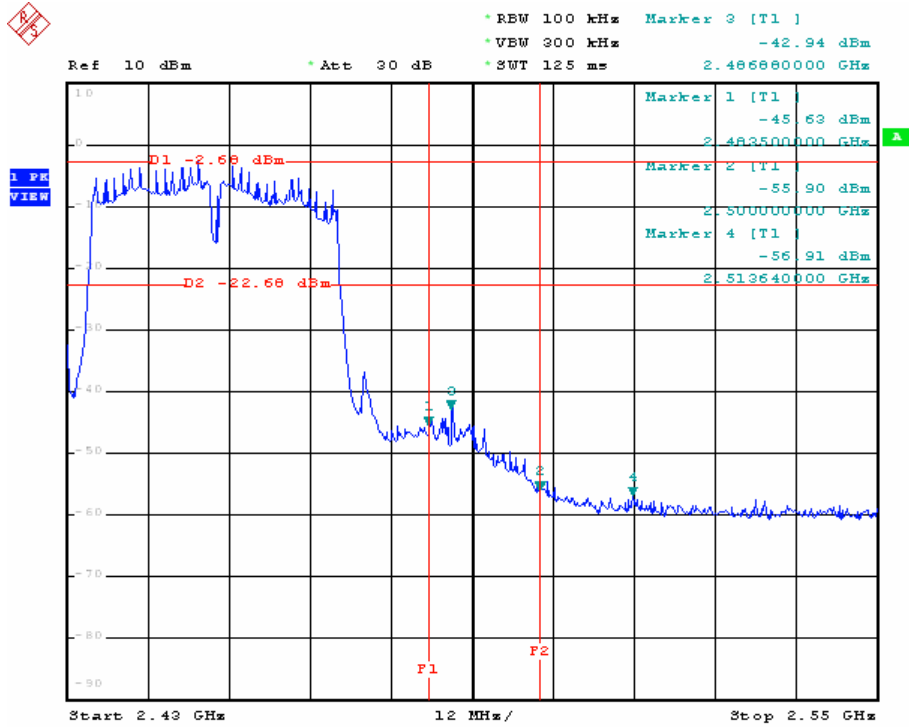
For chain 1

CH1





CH7





4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is dipole antenna. The maximum Gain of the antenna is 2.0dBi.



5. APPENDIX - INFORMATION ON THE TESTING LABORATORIES

BUREAU VERITAS ADT (Shanghai) Corporation, were founded in 2004 to provide our best service in EMC, Radio and Vehicle consultation. Our laboratories are accredited by the following accreditation bodies according to ISO/IEC 17025 (2005) .

USA	A2LA Certificate No.: 2343.01
China	CNAS Certificate No.: L2810

Copies of accreditation certificates could be inquired from our office. If you have any comments, please feel free to contact us at the following:

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Tel: +86 21 6465 9091
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Email: bvadtshmail@cn.bureauveritas.com

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