



FCC TEST REPORT

REPORT NO.: RF131227E01

MODEL NO.: DCH-M225

FCC ID: KA2CHM225A1

RECEIVED: Dec. 27, 2013

TESTED: Dec. 27 to 31, 2013

ISSUED: Feb. 05, 2014

APPLICANT: D-Link Corporation

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ISSUED BY: Bureau Veritas Consumer Products Services
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RELEASE CONTROL RECORD

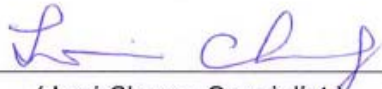
ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF131227E01	Original release	Feb. 05, 2014

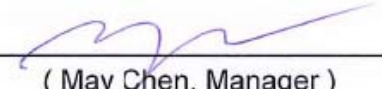


1. CERTIFICATION

PRODUCT: Wi-Fi Audio Extender
BRAND NAME: D-Link
MODEL NO.: DCH-M225
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: D-Link Corporation
TESTED: Dec. 27 to 31, 2013
STANDARDS: **FCC Part 15, Subpart C (Section 15.247)**
ANSI C63.10-2009

The above equipment (Model: DCH-M225) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, 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.

PREPARED BY :  , **DATE:** Feb. 05, 2014
(Lori Chung, Specialist)

APPROVED BY :  , **DATE:** Feb. 05, 2014
(May Chen, Manager)



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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	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -8.23dB at 0.18125MHz
15.247(d) 15.209	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -0.1dB at 2483.50MHz
15.247(d)	Band Edge Measurement	PASS	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted output power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	Antenna connector is i-pex not a standard connector.

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:

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

Measurement	Value
Conducted emissions	2.98 dB
Radiated emissions (30MHz-1GHz)	5.37 dB
Radiated emissions (1GHz -6GHz)	3.65 dB
Radiated emissions (6GHz -18GHz)	3.88 dB
Radiated emissions (18GHz -40GHz)	4.11 dB



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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wi-Fi Audio Extender
MODEL NO.	DCH-M225
POWER SUPPLY	Internal Power Supply
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: up to 11Mbps 802.11g: up to 54Mbps 802.11n: up to 300Mbps
OPERATING FREQUENCY	2.412 ~ 2.462GHz
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40)
MAXIMUM OUTPUT POWER	802.11b: 186.471mW 802.11g: 473.185mW 802.11n (HT20): 475.399mW 802.11n (HT40): 341.615mW
ANTENNA TYPE	Please see NOTE
DATA CABLE	NA
I/O PORTS	Refer to user's manual
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT must be supplied with power as following spec:

- ◆ AC 100-230V.

2. The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Gain (Exclude cable loss) (dBi)	Cable Loss (dB)	Cable Length (cm)	Antenna Type	Connector Type	Frequency range (GHz to GHz)
Chain (0)	2.73	0.17	35	PCB	i-pex	2.4~2.4835
Chain (1)	2.9	NA	NA	Monopole	NA	2.4~2.4835

3. The EUT incorporates a MIMO function without beam forming.

MODULATION MODE	TX/RX FUNCTION
802.11b	2TX/2RX
802.11g	2TX/2RX
802.11n (HT20)	2TX/2RX
802.11n (HT40)	2TX/2RX

4. When the EUT operating in 802.11n, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 15.

5. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



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3.2 DESCRIPTION OF TEST MODES

11 channels are provided for 802.11b, 802.11g, 802.11n (HT20):

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 (HT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

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

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

NOTE: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane** (for below 1GHz) and **X-plane** (for above 1GHz).

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)
802.11n (HT20)	1 to 11	6	OFDM	BPSK	6.5

RADIATED EMISSION TEST (BELOW 1 GHz):

- 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)
802.11n (HT20)	1 to 11	6	OFDM	BPSK	6.5



RADIATED EMISSION TEST (ABOVE 1 GHz):

- 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)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

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)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

CONDUCTED OUT-BAND EMISSION 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)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
PLC	20deg. C, 50%RH	120Vac, 60Hz	Jyunchun Lin
RE<1G	22deg. C, 65%RH	120Vac, 60Hz	Robert Cheng
RE≥1G	22deg. C, 66%RH	120Vac, 60Hz	Tim Ho
APCM	25deg. C, 60%RH	120Vac, 60Hz	Robert Cheng
OB	25deg. C, 60%RH	120Vac, 60Hz	Robert Cheng

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)

558074 D01 DTS Meas Guidance v03r01

662911 D01 Multiple Transmitter Output v01 r02

ANSI C63.10-2009

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

Note: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.4 DUTY CYCLE OF TEST SIGNAL

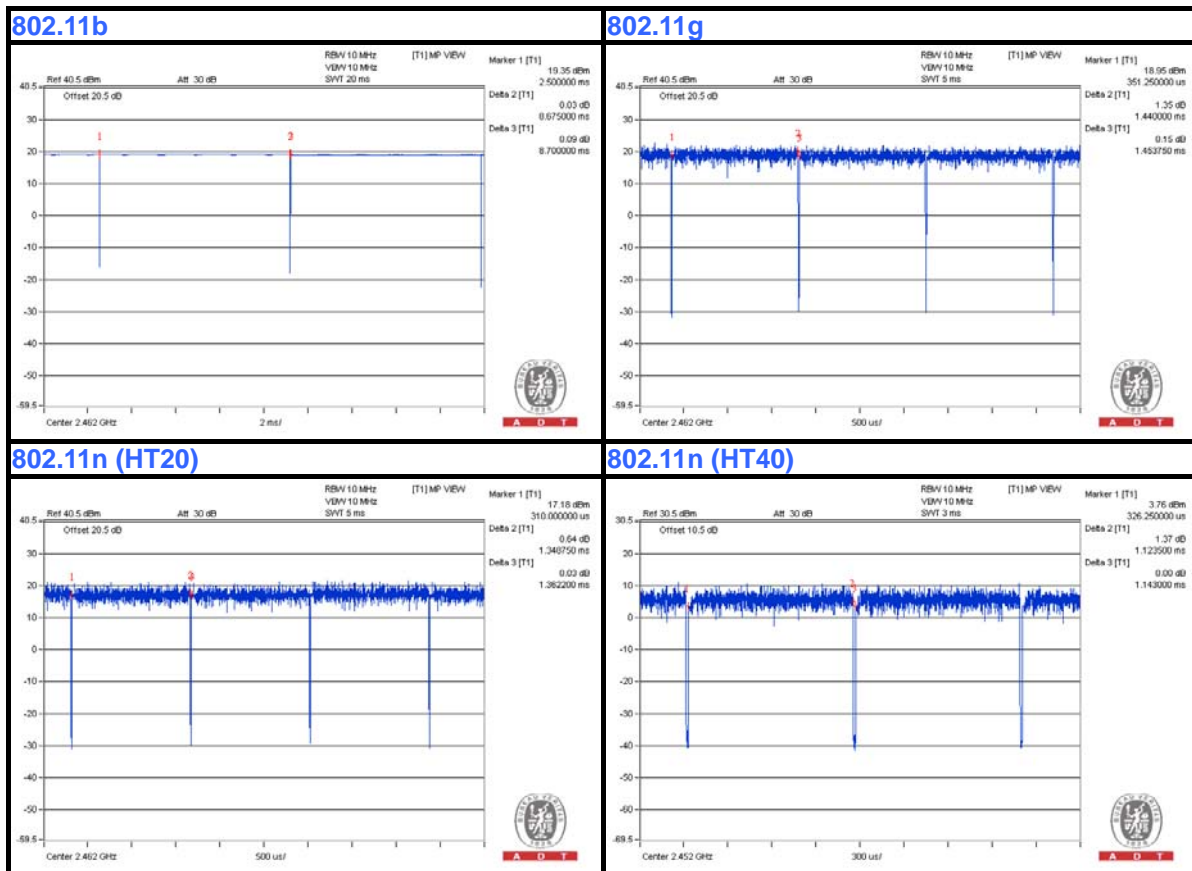
If duty cycle of test signal is > 98 %, duty factor is not required.

802.11b: Duty cycle = 8.675 ms/8.7 ms = 0.997

802.11g: Duty cycle = 1.44 ms/1.454 ms = 0.99

802.11n (HT20): Duty cycle = 1.349 ms/1.362 ms = 0.99

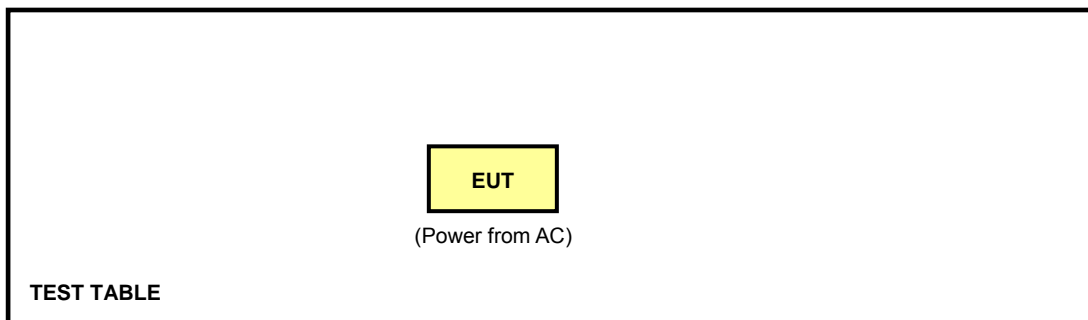
802.11n (HT40): Duty cycle = 1.124 ms/1.143 ms = 0.983



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit.

3.6 CONFIGURATION OF SYSTEM UNDER TEST





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4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

- 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 0.50 MHz.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS 30	100287	Feb. 28, 2013	Feb. 27, 2014
Line-Impedance Stabilization Network (for EUT) ROHDE & SCHWARZ	NSLK-8127	5127-523	Oct. 02, 2013	Oct. 01, 2014
Line-Impedance Stabilization Network (for Peripheral) ROHDE & SCHWARZ	ENV216	100071	Nov. 13, 2013	Nov. 12, 2014
RF Cable (JYEBAO)	5DFB	COACAB-001	May 27, 2013	May 26, 2014
50 ohms Terminator	50	3	Oct. 17, 2013	Oct. 16, 2014
50 ohms Terminator	N/A	EMC-04	Oct. 17, 2013	Oct. 16, 2014
Software ADT	BV ADT_Cond_V7.3.7 .3	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. A.
3. The VCCI Con A Registration No. is C-817.
4. Tested Date: Dec. 27, 2013

4.1.3 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.
- b. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- c. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- d. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

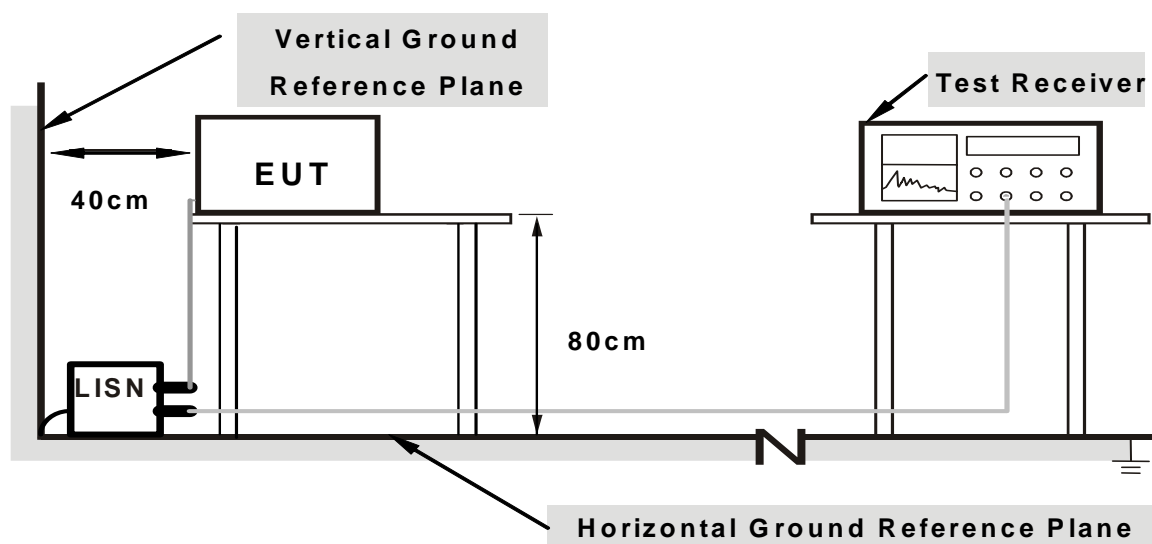
NOTE:

1. The resolution bandwidth of test receiver is 9kHz for Quasi-peak detection (QP) & Average detection (AV).

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1. Support units were connected to second LISN.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

1. Controlling software (HyperTerminal paste 2013-12-30 WAP-N22 console test command.txt command) has been activated to set the EUT on specific status.

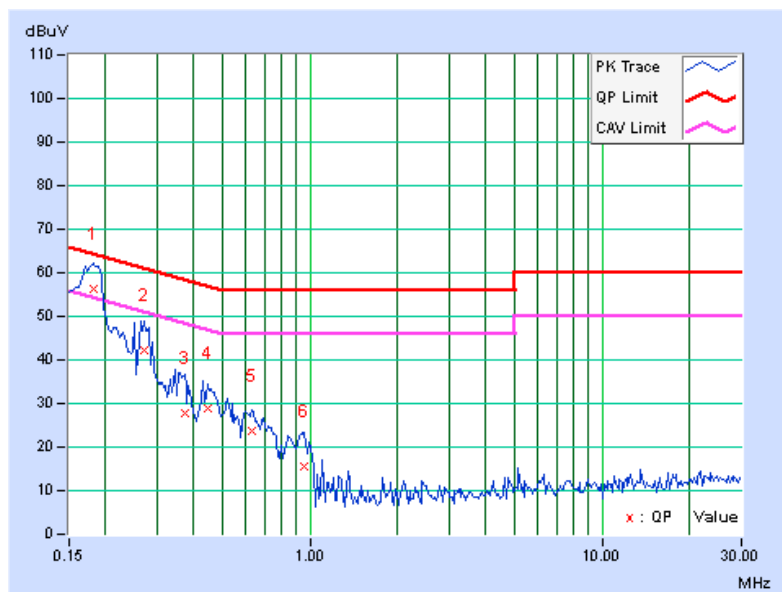
4.1.7 TEST RESULTS

PHASE	Line (L)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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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	0.18125	0.08	56.12	37.55	56.20	37.63	64.43	54.43	-8.23	-16.80
2	0.27109	0.10	42.12	25.02	42.22	25.12	61.08	51.08	-18.86	-25.96
3	0.37266	0.13	27.62	14.57	27.75	14.70	58.44	48.44	-30.69	-33.74
4	0.44688	0.14	28.86	24.19	29.00	24.33	56.93	46.93	-27.93	-22.60
5	0.63047	0.16	23.37	12.08	23.53	12.24	56.00	46.00	-32.47	-33.76
6	0.95859	0.18	15.21	7.07	15.39	7.25	56.00	46.00	-40.61	-38.75

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission Level – Limit value
4. Correction Factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

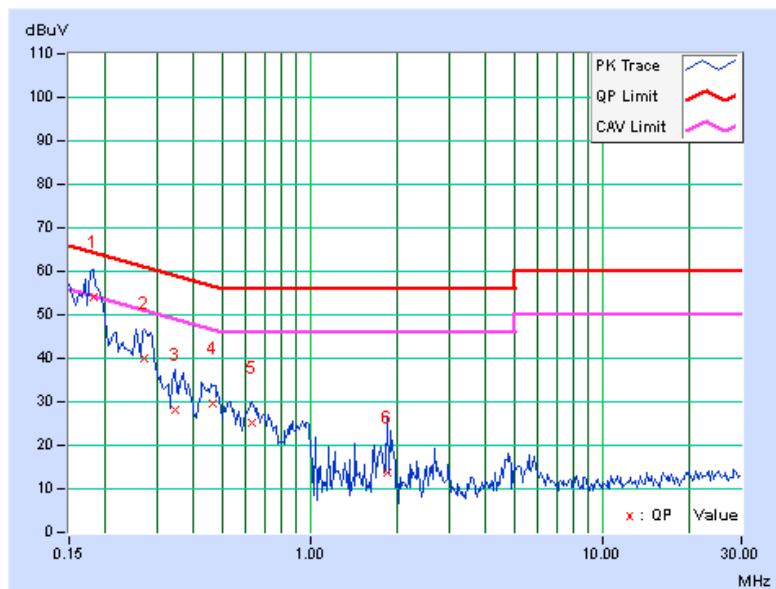


PHASE	Neutral (N)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18125	0.07	54.05	36.64	54.12	36.71	64.43	54.43	-10.31	-17.72
2	0.27109	0.09	40.07	23.69	40.16	23.78	61.08	51.08	-20.92	-27.30
3	0.34531	0.12	28.14	15.28	28.26	15.40	59.07	49.07	-30.81	-33.67
4	0.46641	0.14	29.31	19.75	29.45	19.89	56.58	46.58	-27.12	-26.68
5	0.63438	0.16	24.90	12.85	25.06	13.01	56.00	46.00	-30.94	-32.99
6	1.85156	0.22	13.59	-1.81	13.81	-1.59	56.00	46.00	-42.19	-47.59

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission Level – Limit value
4. Correction Factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



4.2 RADIATED EMISSION AND BANDEGE MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION AND BANDEGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

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. 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.



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4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY51210105	Jan. 29,2013	Jan. 28,2014
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-03	Nov. 13, 2013	Nov. 12, 2014
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-360	Mar. 19, 2013	Mar. 18, 2014
RF Cable	NA	CHGCAB_001	Oct. 05, 2013	Oct. 04, 2014
Spectrum Analyzer R&S	FSV40	100964	July 15, 2013	July 14, 2014
Horn_Antenna AISI	AIH.8018	0000320091110	Nov. 18, 2013	Nov. 17, 2014
Pre-Amplifier Agilent	8449B	3008A02578	June 25, 2013	June 24, 2014
RF Cable	NA	RF104-201 RF104-203 RF104-204	Dec. 12, 2013	Dec. 11, 2014
Spectrum Analyzer Agilent	E4446A	MY48250253	Aug. 28, 2013	Aug. 27, 2014
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Nov. 13, 2013	Nov. 12, 2014
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Oct. 08, 2013	Oct. 07, 2014
Software	ADT_Radiated _V8.7.07	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in 966 Chamber No. G.
4. The FCC Site Registration No. is 966073.
5. The VCCI Site Registration No. is G-137.
6. The CANADA Site Registration No. is IC 7450H-2.
7. Tested Date: Dec. 30, 2013

4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. 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 height of antenna 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

NOTE:

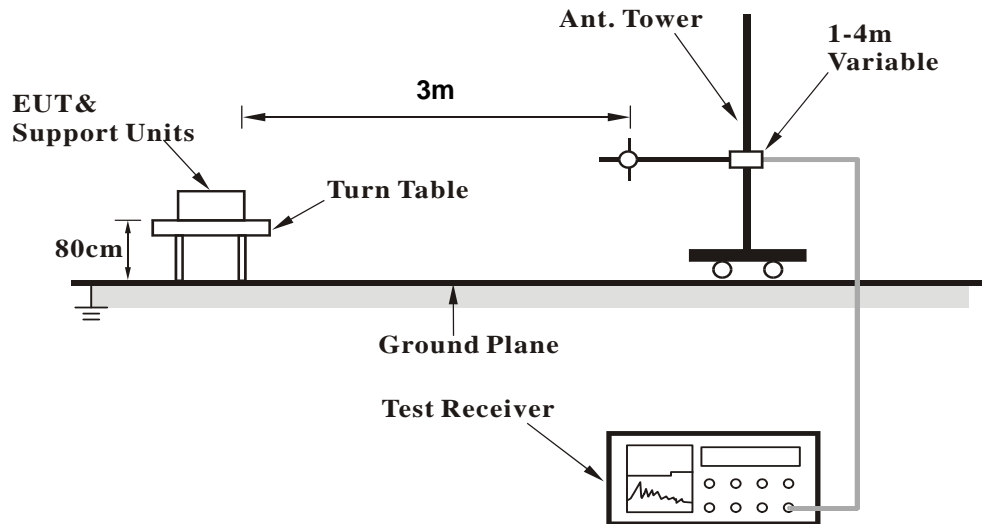
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

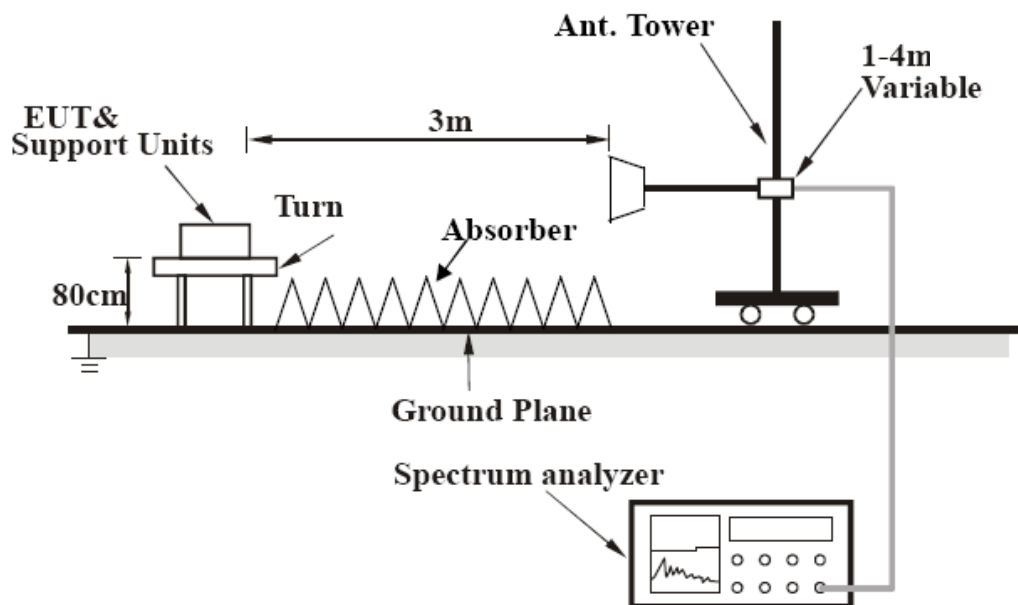
No deviation

4.2.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

4.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

802.11n (HT20)

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	Below 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	144.99	32.3 QP	43.5	-11.2	2.00 H	66	45.63	-13.31
2	241.61	25.8 QP	46.0	-20.2	1.50 H	289	40.48	-14.66
3	338.27	27.2 QP	46.0	-18.8	1.00 H	311	38.61	-11.41
4	483.33	35.6 QP	46.0	-10.5	2.00 H	234	43.37	-7.82
5	531.68	31.2 QP	46.0	-14.8	2.00 H	121	38.15	-6.98
6	676.60	33.6 QP	46.0	-12.4	1.00 H	327	37.51	-3.93
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	53.18	29.0 QP	40.0	-11.0	1.00 V	342	42.15	-13.16
2	90.92	25.9 QP	43.5	-17.6	1.50 V	360	44.92	-19.04
3	117.93	28.9 QP	43.5	-14.6	1.00 V	360	44.18	-15.32
4	338.36	28.3 QP	46.0	-17.7	1.50 V	10	39.73	-11.41
5	483.28	35.6 QP	46.0	-10.4	1.00 V	278	43.41	-7.82
6	628.39	32.1 QP	46.0	-13.9	1.50 V	18	36.57	-4.44

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

ABOVE 1GHz DATA
802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.9 PK	74.0	-8.1	1.56 H	91	67.84	-1.94
2	2390.00	40.3 AV	54.0	-13.7	1.56 H	91	42.24	-1.94
3	*2412.00	108.5 PK			1.56 H	91	110.34	-1.84
4	*2412.00	105.1 AV			1.56 H	91	106.94	-1.84
5	4824.00	53.6 PK	74.0	-20.4	1.26 H	52	46.78	6.82
6	4824.00	48.5 AV	54.0	-5.5	1.26 H	52	41.68	6.82

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.5 PK	74.0	-6.5	1.62 V	124	69.44	-1.94
2	2390.00	39.9 AV	54.0	-14.1	1.62 V	124	41.84	-1.94
3	*2412.00	109.3 PK			1.62 V	124	111.14	-1.84
4	*2412.00	100.1 AV			1.62 V	124	101.94	-1.84
5	4824.00	54.6 PK	74.0	-19.4	1.15 V	266	47.78	6.82
6	4824.00	51.1 AV	54.0	-2.9	1.15 V	266	44.28	6.82

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.



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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.0 PK	74.0	-14.0	1.52 H	90	61.94	-1.94
2	2390.00	37.2 AV	54.0	-16.8	1.52 H	90	39.14	-1.94
3	*2437.00	108.1 PK			1.52 H	90	109.83	-1.73
4	*2437.00	105.0 AV			1.52 H	90	106.73	-1.73
5	2483.50	58.2 PK	74.0	-15.8	1.52 H	90	59.72	-1.52
6	2483.50	37.6 AV	54.0	-16.4	1.52 H	90	39.12	-1.52
7	4874.00	53.4 PK	74.0	-20.6	1.32 H	89	46.40	7.00
8	4874.00	49.4 AV	54.0	-4.6	1.32 H	89	42.40	7.00
9	7311.00	55.8 PK	74.0	-18.2	1.00 H	140	41.20	14.60
10	7311.00	42.8 AV	54.0	-11.2	1.00 H	140	28.20	14.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.3 PK	74.0	-17.7	1.65 V	128	58.24	-1.94
2	2390.00	36.1 AV	54.0	-17.9	1.65 V	128	38.04	-1.94
3	*2437.00	103.5 PK			1.65 V	128	105.23	-1.73
4	*2437.00	101.8 AV			1.65 V	128	103.53	-1.73
5	2483.50	58.8 PK	74.0	-15.2	1.65 V	128	60.32	-1.52
6	2483.50	33.0 AV	54.0	-21.0	1.65 V	128	34.52	-1.52
7	4874.00	55.5 PK	74.0	-18.5	1.14 V	278	48.50	7.00
8	4874.00	51.9 AV	54.0	-2.1	1.14 V	278	44.90	7.00
9	7311.00	55.2 PK	74.0	-18.8	1.00 V	159	40.60	14.60
10	7311.00	42.8 AV	54.0	-11.2	1.00 V	159	28.20	14.60

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.



CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.9 PK			1.53 H	95	109.52	-1.62
2	*2462.00	104.6 AV			1.53 H	95	106.22	-1.62
3	2483.50	64.1 PK	74.0	-9.9	1.53 H	95	65.62	-1.52
4	2483.50	39.0 AV	54.0	-15.0	1.53 H	95	40.52	-1.52
5	4924.00	54.4 PK	74.0	-19.6	1.29 H	241	47.25	7.15
6	4924.00	50.0 AV	54.0	-4.0	1.29 H	241	42.85	7.15
7	7386.00	55.9 PK	74.0	-18.1	1.00 H	138	41.43	14.47
8	7386.00	42.9 AV	54.0	-11.1	1.00 H	138	28.43	14.47

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.9 PK			1.22 V	327	105.52	-1.62
2	*2462.00	100.6 AV			1.22 V	327	102.22	-1.62
3	2483.50	60.5 PK	74.0	-13.5	1.22 V	327	62.02	-1.52
4	2483.50	36.3 AV	54.0	-17.7	1.22 V	327	37.82	-1.52
5	4924.00	56.1 PK	74.0	-17.9	1.12 V	272	48.95	7.15
6	4924.00	52.6 AV	54.0	-1.4	1.12 V	272	45.45	7.15
7	7386.00	55.3 PK	74.0	-18.7	1.00 V	147	40.83	14.47
8	7386.00	42.7 AV	54.0	-11.3	1.00 V	147	28.23	14.47

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.4 PK	74.0	-0.6	1.00 H	92	75.34	-1.94
2	2390.00	53.5 AV	54.0	-0.5	1.00 H	92	55.44	-1.94
3	*2412.00	110.6 PK			1.00 H	92	112.44	-1.84
4	*2412.00	99.5 AV			1.00 H	92	101.34	-1.84
5	4824.00	52.8 PK	74.0	-21.2	1.58 H	35	45.98	6.82
6	4824.00	41.0 AV	54.0	-13.0	1.58 H	35	34.18	6.82
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.5 PK	74.0	-1.5	1.61 V	128	74.44	-1.94
2	2390.00	51.0 AV	54.0	-3.0	1.61 V	128	52.96	-1.94
3	*2412.00	106.9 PK			1.61 V	128	108.74	-1.84
4	*2412.00	96.2 AV			1.61 V	128	98.04	-1.84
5	4824.00	58.7 PK	74.0	-15.3	1.10 V	256	51.88	6.82
6	4824.00	45.4 AV	54.0	-8.6	1.10 V	256	38.58	6.82

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.



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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.4 PK	74.0	-16.6	1.00 H	94	59.34	-1.94
2	2390.00	43.2 AV	54.0	-10.8	1.00 H	94	45.14	-1.94
3	*2437.00	112.8 PK			1.00 H	94	114.53	-1.73
4	*2437.00	101.4 AV			1.00 H	94	103.13	-1.73
5	2483.50	55.0 PK	74.0	-19.0	1.00 H	94	56.52	-1.52
6	2483.50	41.2 AV	54.0	-12.8	1.00 H	94	42.72	-1.52
7	4874.00	53.0 PK	74.0	-21.0	1.48 H	41	46.00	7.00
8	4874.00	41.2 AV	54.0	-12.8	1.48 H	41	34.20	7.00
9	7311.00	61.6 PK	74.0	-12.4	1.14 H	207	47.00	14.60
10	7311.00	48.2 AV	54.0	-5.8	1.14 H	207	33.60	14.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	52.0 PK	74.0	-22.0	1.58 V	124	53.94	-1.94
2	2390.00	38.4 AV	54.0	-15.6	1.58 V	124	40.34	-1.94
3	*2437.00	106.8 PK			1.58 V	124	108.53	-1.73
4	*2437.00	96.2 AV			1.58 V	124	97.93	-1.73
5	2483.50	54.3 PK	74.0	-19.7	1.58 V	124	55.82	-1.52
6	2483.50	39.9 AV	54.0	-14.1	1.58 V	124	41.42	-1.52
7	4874.00	59.2 PK	74.0	-14.8	1.05 V	256	52.20	7.00
8	4874.00	45.7 AV	54.0	-8.3	1.05 V	256	38.70	7.00
9	7311.00	64.1 PK	74.0	-9.9	1.60 V	123	49.50	14.60
10	7311.00	46.0 AV	54.0	-8.0	1.60 V	123	31.40	14.60

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.



CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.9 PK			1.00 H	94	110.52	-1.62
2	*2462.00	97.2 AV			1.00 H	94	98.82	-1.62
3	2483.50	71.9 PK	74.0	-2.1	1.00 H	94	73.42	-1.52
4	2483.50	53.4 AV	54.0	-0.6	1.00 H	94	54.92	-1.52
5	4924.00	53.1 PK	74.0	-20.9	1.53 H	41	45.95	7.15
6	4924.00	41.1 AV	54.0	-12.9	1.53 H	41	33.95	7.15
7	7386.00	60.8 PK	74.0	-13.2	1.09 H	199	46.33	14.47
8	7386.00	47.7 AV	54.0	-6.3	1.09 H	199	33.23	14.47

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.8 PK			1.55 V	124	105.42	-1.62
2	*2462.00	93.6 AV			1.55 V	124	95.22	-1.62
3	2483.50	64.0 PK	74.0	-10.0	1.55 V	124	65.52	-1.52
4	2483.50	45.8 AV	54.0	-8.2	1.55 V	124	47.32	-1.52
5	4924.00	59.3 PK	74.0	-14.7	1.14 V	199	52.15	7.15
6	4924.00	40.6 AV	54.0	-13.4	1.14 V	199	33.45	7.15
7	7386.00	59.4 PK	74.0	-14.6	1.10 V	265	44.93	14.47
8	7386.00	45.7 AV	54.0	-8.3	1.10 V	265	31.23	14.47

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.8 PK	74.0	-1.2	1.00 H	92	74.74	-1.94
2	2390.00	53.7 AV	54.0	-0.3	1.00 H	92	55.64	-1.94
3	*2412.00	109.2 PK			1.00 H	92	111.04	-1.84
4	*2412.00	97.1 AV			1.00 H	92	98.94	-1.84
5	4824.00	52.7 PK	74.0	-21.3	1.46 H	43	45.88	6.82
6	4824.00	40.5 AV	54.0	-13.5	1.46 H	43	33.68	6.82
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.6 PK	74.0	-5.4	1.55 V	124	70.54	-1.94
2	2390.00	49.9 AV	54.0	-4.1	1.55 V	124	51.84	-1.94
3	*2412.00	103.9 PK			1.55 V	124	105.74	-1.84
4	*2412.00	93.4 AV			1.55 V	124	95.24	-1.84
5	4824.00	58.9 PK	74.0	-15.1	1.10 V	212	52.08	6.82
6	4824.00	40.4 AV	54.0	-13.6	1.10 V	212	33.58	6.82

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.



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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.3 PK	74.0	-12.7	1.00 H	93	63.24	-1.94
2	2390.00	43.8 AV	54.0	-10.2	1.00 H	93	45.74	-1.94
3	*2437.00	112.2 PK			1.00 H	93	113.93	-1.73
4	*2437.00	100.0 AV			1.00 H	93	101.73	-1.73
5	2483.50	60.1 PK	74.0	-13.9	1.00 H	93	61.62	-1.52
6	2483.50	42.2 AV	54.0	-11.8	1.00 H	93	43.72	-1.52
7	4874.00	52.8 PK	74.0	-21.2	1.49 H	41	45.80	7.00
8	4874.00	40.7 AV	54.0	-13.3	1.49 H	41	33.70	7.00
9	7311.00	61.5 PK	74.0	-12.5	1.16 H	198	46.90	14.60
10	7311.00	47.9 AV	54.0	-6.1	1.16 H	198	33.30	14.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	51.2 PK	74.0	-22.8	1.53 V	125	53.14	-1.94
2	2390.00	37.9 AV	54.0	-16.1	1.53 V	125	39.84	-1.94
3	*2437.00	106.6 PK			1.53 V	125	108.33	-1.73
4	*2437.00	94.9 AV			1.53 V	125	96.63	-1.73
5	2483.50	57.3 PK	74.0	-16.7	1.53 V	125	58.82	-1.52
6	2483.50	39.9 AV	54.0	-14.1	1.53 V	125	41.42	-1.52
7	4874.00	59.9 PK	74.0	-14.1	1.16 V	210	52.90	7.00
8	4874.00	41.1 AV	54.0	-12.9	1.16 V	210	34.10	7.00
9	7311.00	58.5 PK	74.0	-15.5	1.16 V	280	43.90	14.60
10	7311.00	45.0 AV	54.0	-9.0	1.16 V	280	30.40	14.60

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.9 PK			1.00 H	90	108.52	-1.62
2	*2462.00	95.2 AV			1.00 H	90	96.82	-1.62
3	2483.50	71.2 PK	74.0	-2.8	1.00 H	90	72.72	-1.52
4	2483.50	53.9 AV	54.0	-0.1	1.00 H	90	55.42	-1.52
5	4924.00	53.2 PK	74.0	-20.8	1.43 H	42	46.05	7.15
6	4924.00	40.9 AV	54.0	-13.1	1.43 H	42	33.75	7.15
7	7386.00	61.5 PK	74.0	-12.5	1.23 H	218	47.03	14.47
8	7386.00	47.9 AV	54.0	-6.1	1.23 H	218	33.43	14.47

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.3 PK			1.25 V	154	104.92	-1.62
2	*2462.00	91.7 AV			1.25 V	154	93.32	-1.62
3	2483.50	63.6 PK	74.0	-10.4	1.25 V	154	65.12	-1.52
4	2483.50	45.4 AV	54.0	-8.6	1.25 V	154	46.92	-1.52
5	4924.00	59.8 PK	74.0	-14.2	1.10 V	214	52.65	7.15
6	4924.00	40.8 AV	54.0	-13.2	1.10 V	214	33.65	7.15
7	7386.00	59.1 PK	74.0	-14.9	1.13 V	268	44.63	14.47
8	7386.00	45.4 AV	54.0	-8.6	1.13 V	268	30.93	14.47

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.8 PK	74.0	-1.2	1.00 H	93	74.74	-1.94
2	2390.00	53.8 AV	54.0	-0.2	1.00 H	93	55.74	-1.94
3	*2422.00	104.9 PK			1.00 H	93	106.69	-1.79
4	*2422.00	92.6 AV			1.00 H	93	94.39	-1.79
5	4844.00	49.8 PK	74.0	-24.2	1.50 H	302	42.92	6.88
6	4844.00	37.2 AV	54.0	-16.8	1.50 H	302	30.32	6.88
7	7266.00	57.2 PK	74.0	-16.8	1.03 H	2	42.55	14.65
8	7266.00	43.9 AV	54.0	-10.1	1.03 H	2	29.25	14.65

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.3 PK	74.0	-12.7	1.59 V	127	63.24	-1.94
2	2390.00	45.6 AV	54.0	-8.4	1.59 V	127	47.54	-1.94
3	*2422.00	97.9 PK			1.59 V	127	99.69	-1.79
4	*2422.00	86.4 AV			1.59 V	127	88.19	-1.79
5	4844.00	48.7 PK	74.0	-25.3	1.57 V	5	41.82	6.88
6	4844.00	35.1 AV	54.0	-18.9	1.57 V	5	28.22	6.88
7	7266.00	57.5 PK	74.0	-16.5	1.52 V	360	42.85	14.65
8	7266.00	42.8 AV	54.0	-11.2	1.52 V	360	28.15	14.65

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.



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CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	72.4 PK	74.0	-1.6	1.00 H	93	74.34	-1.94
2	2390.00	53.5 AV	54.0	-0.5	1.00 H	93	55.44	-1.94
3	*2437.00	107.4 PK			1.00 H	93	109.13	-1.73
4	*2437.00	95.1 AV			1.00 H	93	96.83	-1.73
5	2483.50	66.9 PK	74.0	-7.1	1.00 H	93	68.42	-1.52
6	2483.50	49.3 AV	54.0	-4.7	1.00 H	93	50.82	-1.52
7	4874.00	49.8 PK	74.0	-24.2	1.54 H	279	42.80	7.00
8	4874.00	37.4 AV	54.0	-16.6	1.54 H	279	30.40	7.00
9	7311.00	57.1 PK	74.0	-16.9	1.00 H	0	42.50	14.60
10	7311.00	44.0 AV	54.0	-10.0	1.00 H	0	29.40	14.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.3 PK	74.0	-13.7	1.53 V	134	62.24	-1.94
2	2390.00	42.8 AV	54.0	-11.2	1.53 V	134	44.74	-1.94
3	*2437.00	99.7 PK			1.53 V	134	101.43	-1.73
4	*2437.00	88.0 AV			1.53 V	134	89.73	-1.73
5	2483.50	61.7 PK	74.0	-12.3	1.53 V	134	63.22	-1.52
6	2483.50	43.1 AV	54.0	-10.9	1.53 V	134	44.62	-1.52
7	4874.00	50.0 PK	74.0	-24.0	1.54 V	0	43.00	7.00
8	4874.00	36.0 AV	54.0	-18.0	1.54 V	0	29.00	7.00
9	7311.00	57.2 PK	74.0	-16.8	1.52 V	360	42.60	14.60
10	7311.00	42.6 AV	54.0	-11.4	1.52 V	360	28.00	14.60

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	103.6 PK			1.00 H	90	105.26	-1.66
2	*2452.00	91.4 AV			1.00 H	90	93.06	-1.66
3	2483.50	70.8 PK	74.0	-3.2	1.00 H	90	72.32	-1.52
4	2483.50	53.4 AV	54.0	-0.6	1.00 H	90	54.92	-1.52
5	4904.00	49.6 PK	74.0	-24.4	1.52 H	293	42.50	7.10
6	4904.00	36.9 AV	54.0	-17.1	1.52 H	293	29.80	7.10
7	7356.00	57.0 PK	74.0	-17.0	1.07 H	0	42.48	14.52
8	7356.00	43.6 AV	54.0	-10.4	1.07 H	0	29.08	14.52

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	96.5 PK			1.56 V	129	98.16	-1.66
2	*2452.00	84.2 AV			1.56 V	129	85.86	-1.66
3	2483.50	62.4 PK	74.0	-11.6	1.56 V	129	63.92	-1.52
4	2483.50	45.3 AV	54.0	-8.7	1.56 V	129	46.82	-1.52
5	4904.00	49.4 PK	74.0	-24.6	1.54 V	14	42.30	7.10
6	4904.00	35.6 AV	54.0	-18.4	1.54 V	14	28.50	7.10
7	7356.00	57.9 PK	74.0	-16.1	1.52 V	360	43.38	14.52
8	7356.00	43.1 AV	54.0	-10.9	1.52 V	360	28.58	14.52

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

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 DATE	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100036	Jan. 21, 2013	Jan. 20, 2014

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Tested date : Dec. 31, 2013

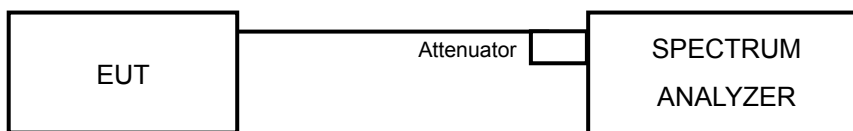
4.3.3 TEST PROCEDURE

1. Set resolution bandwidth (RBW) = 100kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
3. Trace mode = max hold.
4. Sweep = auto couple.
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

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.



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4.3.7 TEST RESULTS

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	10.09	10.11	0.5	PASS
6	2437	10.15	10.15	0.5	PASS
11	2462	10.13	10.14	0.5	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.41	16.44	0.5	PASS
6	2437	16.44	16.43	0.5	PASS
11	2462	16.42	16.45	0.5	PASS

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	17.10	17.33	0.5	PASS
6	2437	17.65	17.31	0.5	PASS
11	2462	17.56	17.35	0.5	PASS

802.11n (HT40)

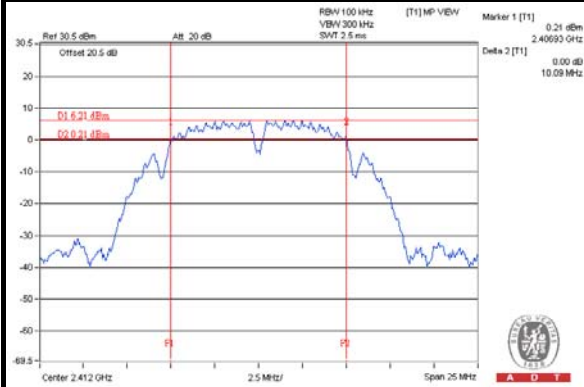
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
3	2422	36.43	36.35	0.5	PASS
6	2437	36.20	36.46	0.5	PASS
9	2452	36.35	36.48	0.5	PASS



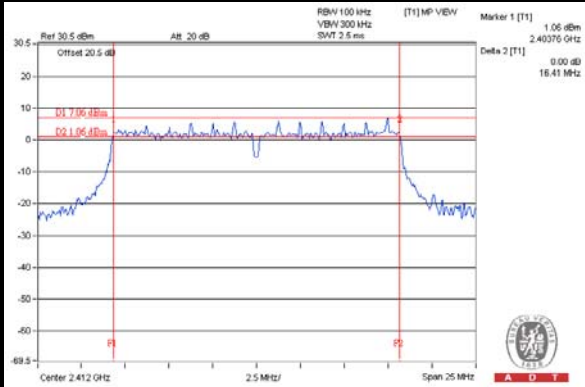
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SPECTRUM PLOT OF WORST VALUE

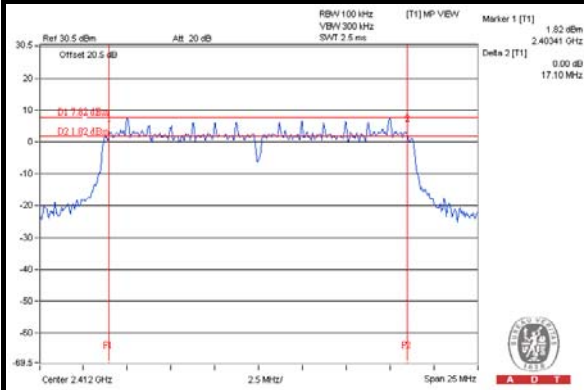
802.11b / Chain (0) / CH1



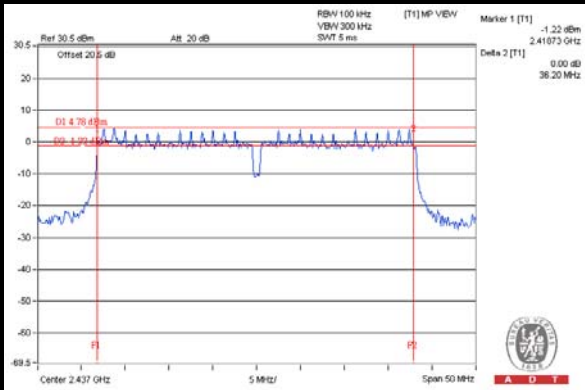
802.11g / Chain (0) / CH1



802.11n (HT20) / Chain (0) / CH1



802.11n (HT40) / Chain (0) / CH6



4.4 CONDUCTED OUTPUT POWER MEASUREMENT

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

4.4.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Power Meter	ML2495A	1014008	Apr. 23, 2013	Apr. 22, 2014
Power Sensor	MA2411B	0917122	Apr. 23, 2013	Apr. 22, 2014

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Tested date : Dec. 31, 2013

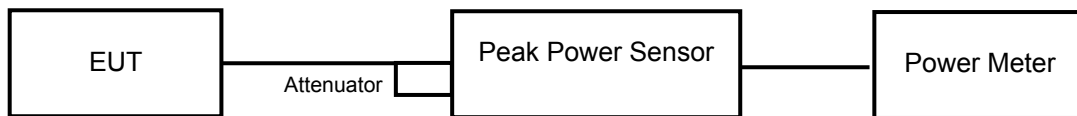
4.4.3 TEST PROCEDURES

The peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the peak 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

CHANNEL	FREQUENCY (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	19.57	19.22	174.133	22.41	30	PASS
6	2437	19.78	19.61	186.471	22.71	30	PASS
11	2462	19.62	19.62	183.244	22.63	30	PASS

802.11g

CHANNEL	FREQUENCY (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	22.54	22.69	365.253	25.63	30	PASS
6	2437	23.73	23.75	473.185	26.75	30	PASS
11	2462	21.92	22.18	320.793	25.06	30	PASS

802.11n (HT20)

CHANNEL	FREQUENCY (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	22.88	23.07	396.857	25.99	30	PASS
6	2437	23.71	23.81	475.399	26.77	30	PASS
11	2462	21.74	21.82	301.334	24.79	30	PASS

802.11n (HT40)

CHANNEL	FREQUENCY (MHz)	PEAK POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
3	2422	20.45	19.82	206.857	23.16	30	PASS
6	2437	22.35	22.30	341.615	25.34	30	PASS
9	2452	20.18	19.56	194.597	22.89	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 DATE	CALIBRATED UNTIL
R&S Spectrum Analyzer	FSP40	100036	Jan. 21, 2013	Jan. 20, 2014

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Tested date : Dec. 31, 2013

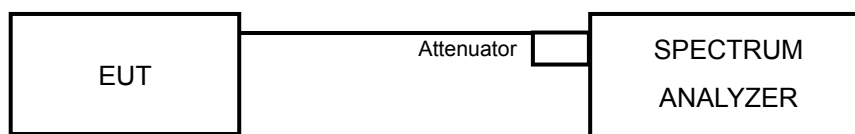
4.5.3 TEST PROCEDURE

1. Set the RBW = 3 kHz, VBW =10 kHz, Detector = peak.
2. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
3. Use the peak marker function to determine the maximum amplitude level.

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

TX CHAIN	CHANNEL	FREQUENCY (MHz)	PSD (dBm)	10 log (N=2) dB	TOTAL PSD (dBm)	LIMIT (dBm)	PASS /FAIL
0	1	2412	-9.83	3.01	-6.82	8	PASS
	6	2437	-9.29	3.01	-6.28	8	PASS
	11	2462	-9.51	3.01	-6.50	8	PASS
1	1	2412	-10.13	3.01	-7.12	8	PASS
	6	2437	-10.32	3.01	-7.31	8	PASS
	11	2462	-10.02	3.01	-7.01	8	PASS

NOTE: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 5.74\text{dBi} < 6\text{dBi}$, so the power density limit shall not be reduced.

802.11g

TX CHAIN	CHANNEL	FREQUENCY (MHz)	PSD (dBm)	10 log (N=2) dB	TOTAL PSD (dBm)	LIMIT (dBm)	PASS /FAIL
0	1	2412	-9.72	3.01	-6.71	8	PASS
	6	2437	-5.81	3.01	-2.80	8	PASS
	11	2462	-9.40	3.01	-6.39	8	PASS
1	1	2412	-9.16	3.01	-6.15	8	PASS
	6	2437	-6.24	3.01	-3.23	8	PASS
	11	2462	-10.77	3.01	-7.76	8	PASS

NOTE: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 5.74\text{dBi} < 6\text{dBi}$, so the power density limit shall not be reduced.

802.11n (HT20)

TX CHAIN	CHANNEL	FREQUENCY (MHz)	PSD (dBm)	10 log (N=2) dB	TOTAL PSD (dBm)	LIMIT (dBm)	PASS /FAIL
0	1	2412	-8.89	3.01	-5.88	8	PASS
	6	2437	-6.17	3.01	-3.16	8	PASS
	11	2462	-10.36	3.01	-7.35	8	PASS
1	1	2412	-9.39	3.01	-6.38	8	PASS
	6	2437	-6.02	3.01	-3.01	8	PASS
	11	2462	-11.08	3.01	-8.07	8	PASS

NOTE: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 5.74\text{dBi} < 6\text{dBi}$, so the power density limit shall not be reduced.

802.11n (HT40)

TX CHAIN	CHANNEL	FREQUENCY (MHz)	PSD (dBm)	10 log (N=2) dB	TOTAL PSD (dBm)	LIMIT (dBm)	PASS /FAIL
0	3	2422	-14.38	3.01	-11.37	8	PASS
	6	2437	-9.63	3.01	-6.62	8	PASS
	9	2452	-14.38	3.01	-11.37	8	PASS
1	3	2422	-15.47	3.01	-12.46	8	PASS
	6	2437	-11.66	3.01	-8.65	8	PASS
	9	2452	-15.80	3.01	-12.79	8	PASS

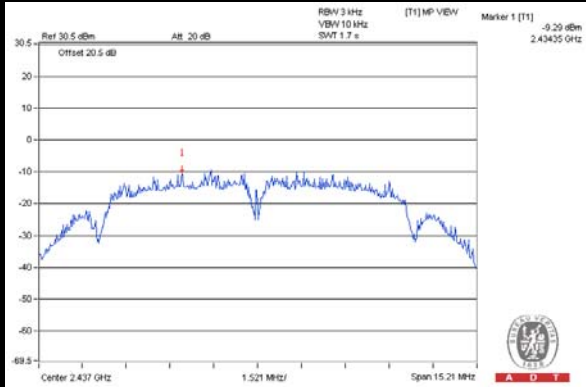
NOTE: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 5.74\text{dBi} < 6\text{dBi}$, so the power density limit shall not be reduced.



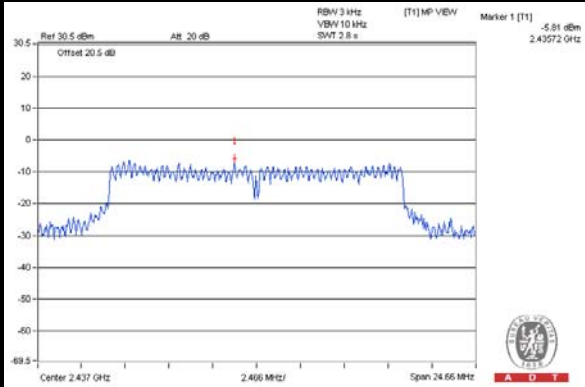
A D T

SPECTRUM PLOT OF WORST VALUE

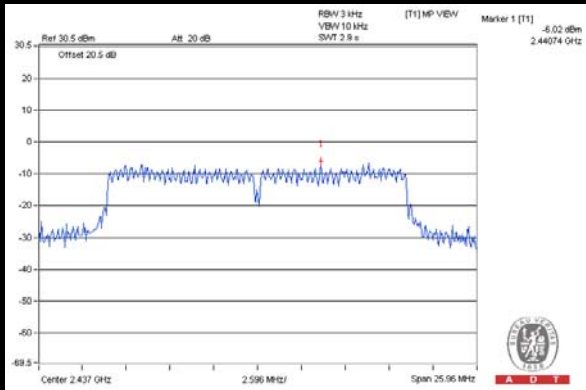
802.11b / Chain (0) / CH6



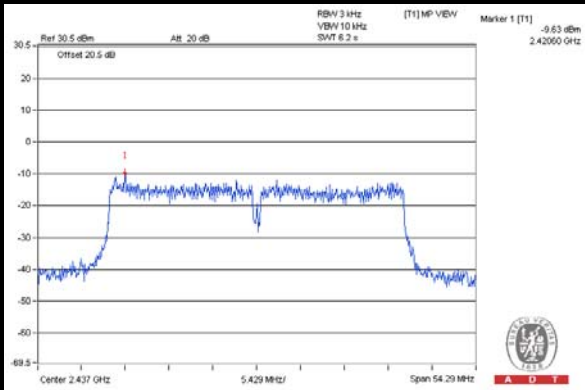
802.11g / Chain (0) / CH6



802.11n (HT20) / Chain (1) / CH6



802.11n (HT40) / Chain (0) / CH6



4.6 CONDUCTED OUT-BAND EMISSION MEASUREMENT

4.6.1 LIMITS OF CONDUCTED OUT-BAND EMISSION 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 DATE	CALIBRATED UNTIL
R&S Spectrum Analyzer	FSP40	100036	Jan. 21, 2013	Jan. 20, 2014

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Tested date : Dec. 31, 2013

4.6.3 TEST PROCEDURE

Measurement Procedure - Reference Level

1. Set the RBW = 100 kHz.
2. Set the VBW \geq 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

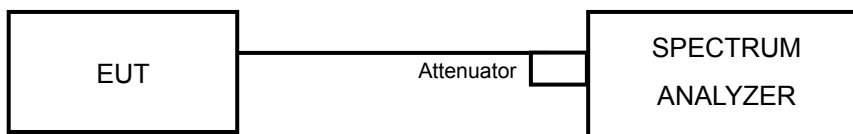
Measurement Procedure –Unwanted Emission Level

1. Set RBW = 100 kHz.
2. Set VBW \geq 300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 TEST SETUP



4.6.6 EUT OPERATING CONDITION

Same as Item 4.3.6

4.6.7 TEST RESULTS

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

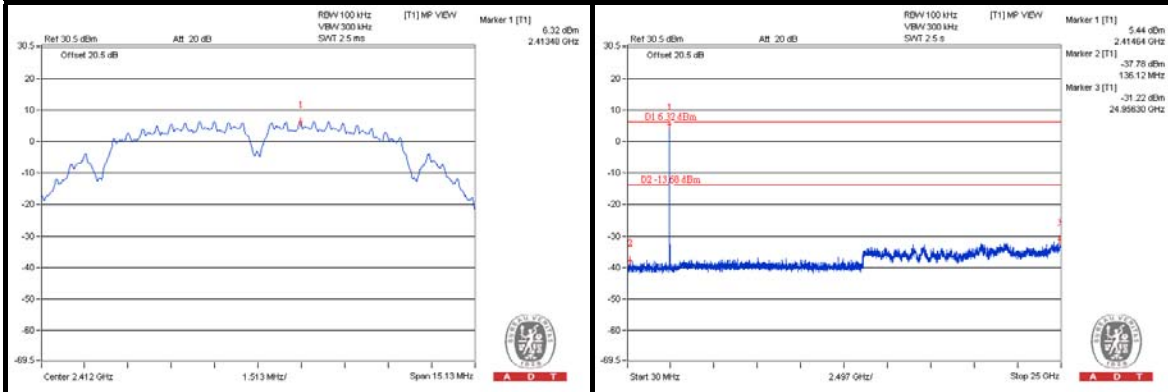


A D T

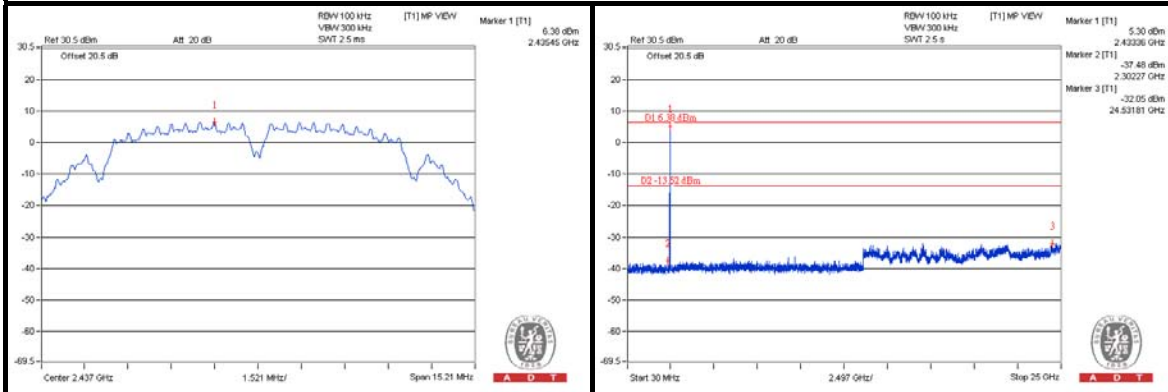
802.11b:

Chain (0)

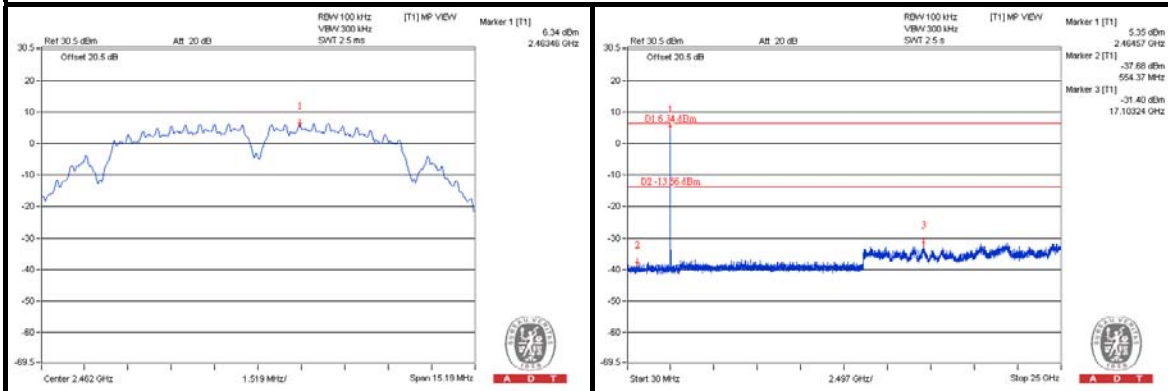
CH 1



CH 6



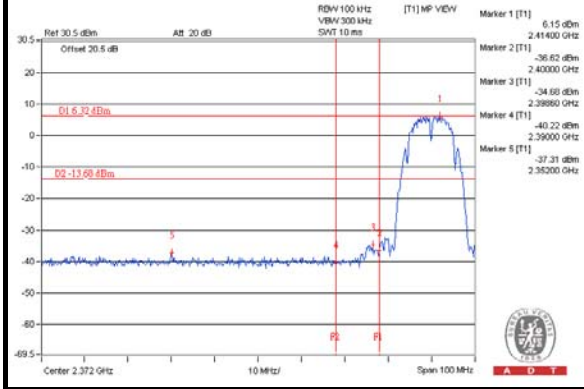
CH 11



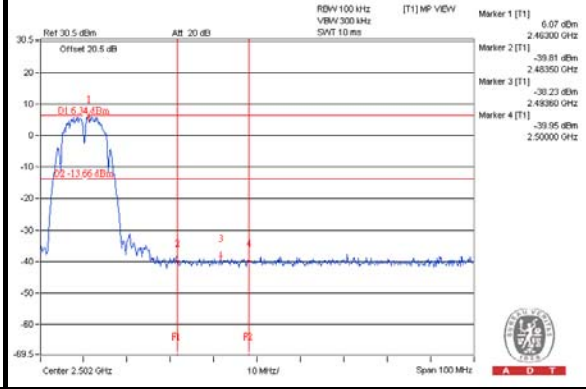


A D T

CH 1 Band edge

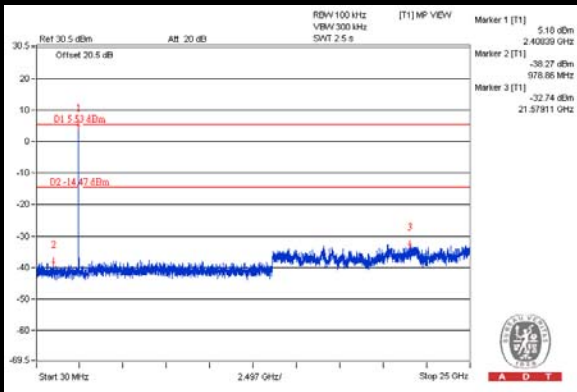
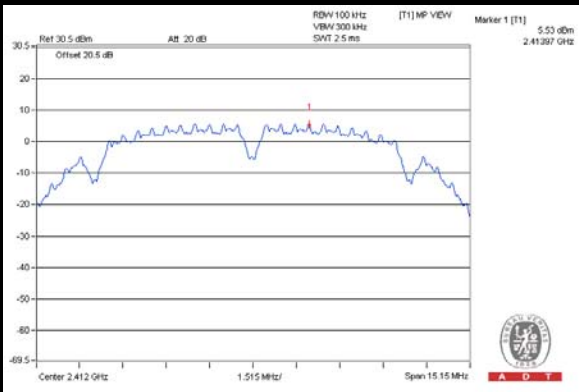


CH 11 Band edge

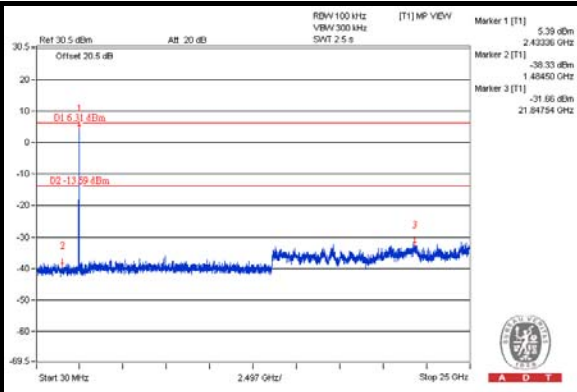
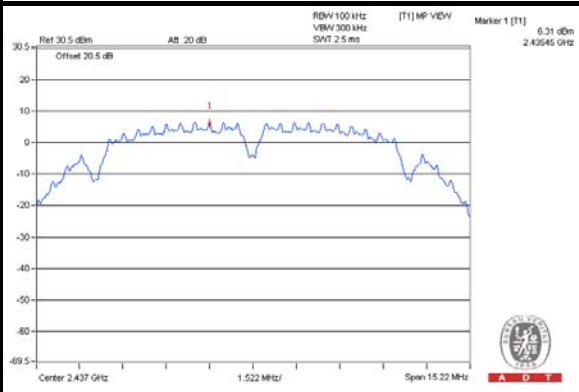


Chain (1)

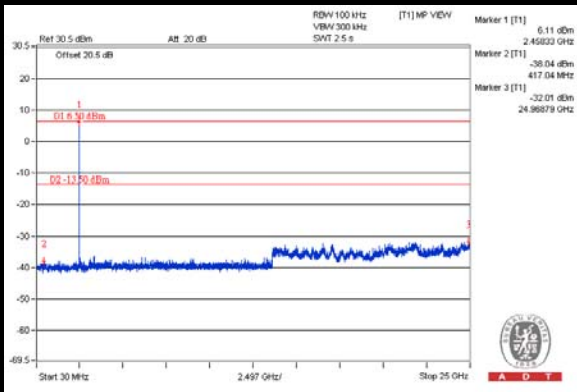
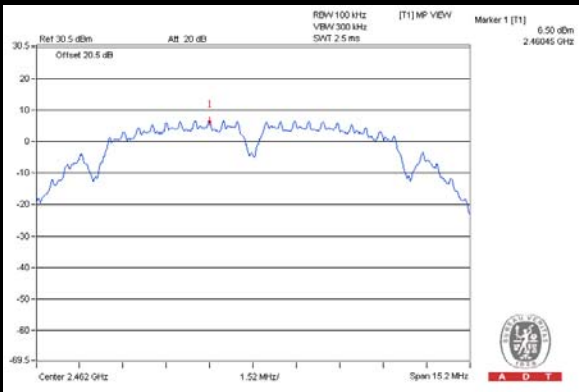
CH 1



CH 6



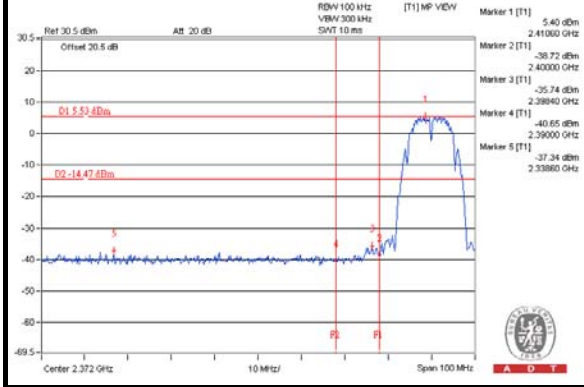
CH 11



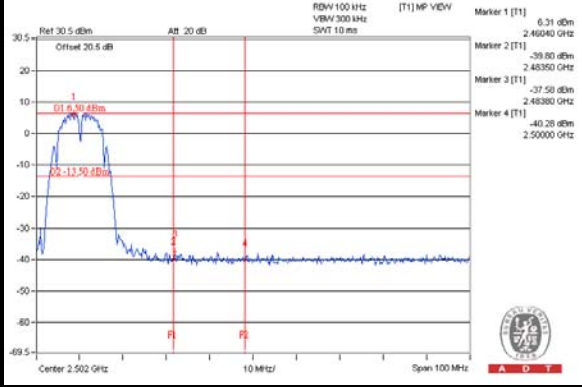


A D T

CH 1 Band edge



CH 11 Band edge



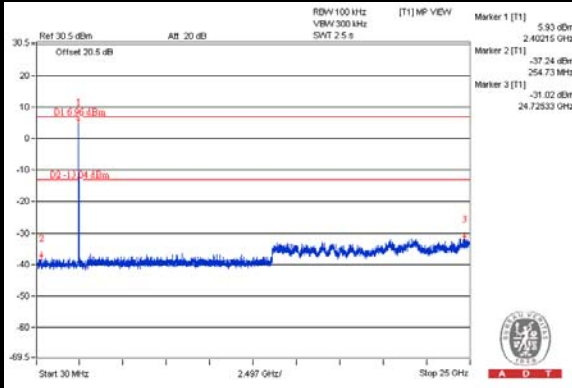
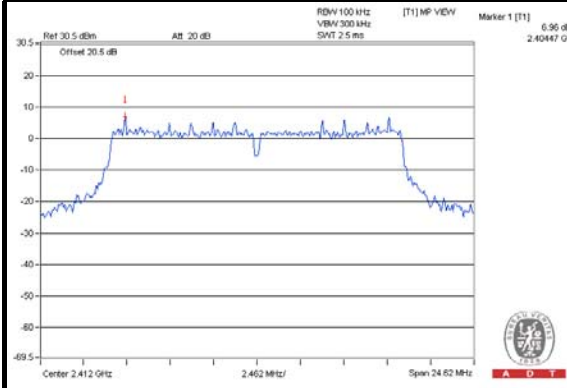


A D T

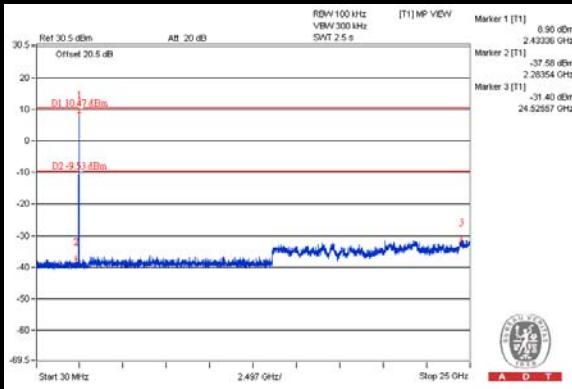
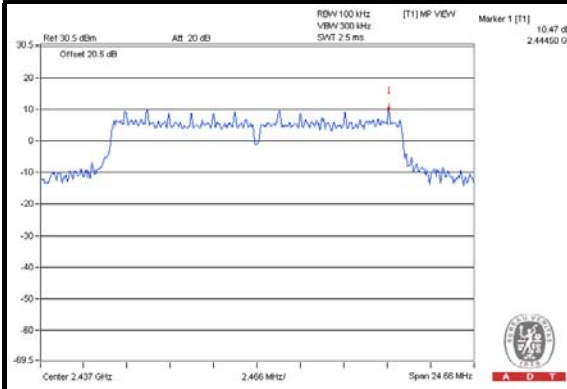
802.11g:

Chain (0)

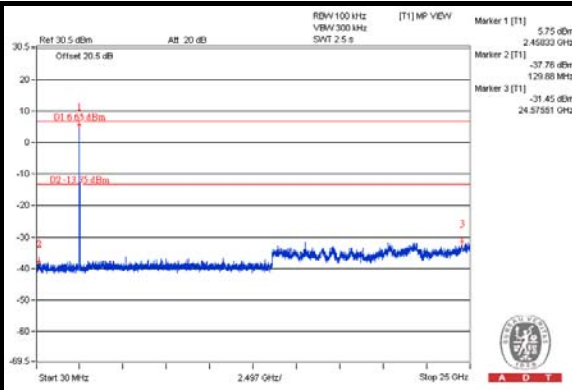
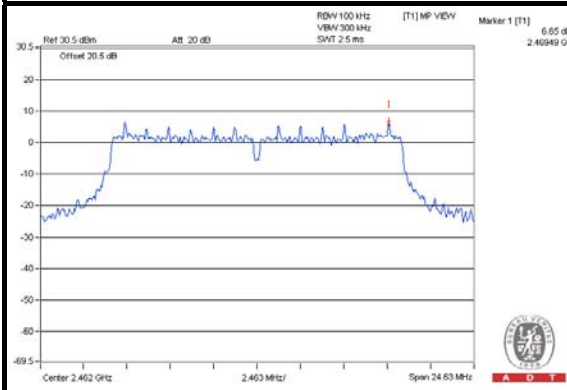
CH 1



CH 6



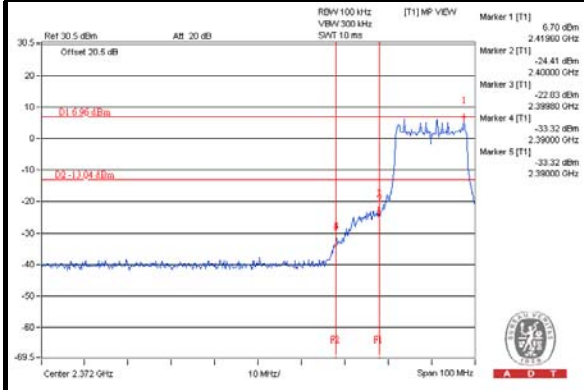
CH 11



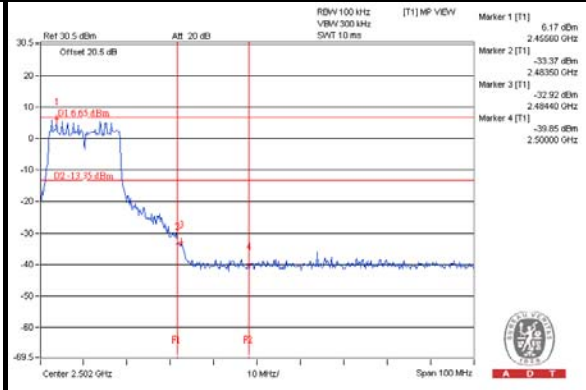


A D T

CH 1 Band edge



CH 11 Band edge

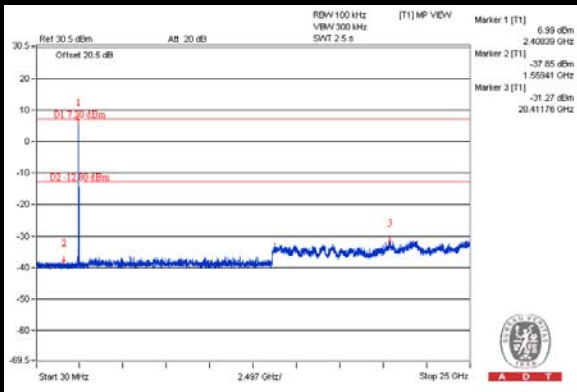
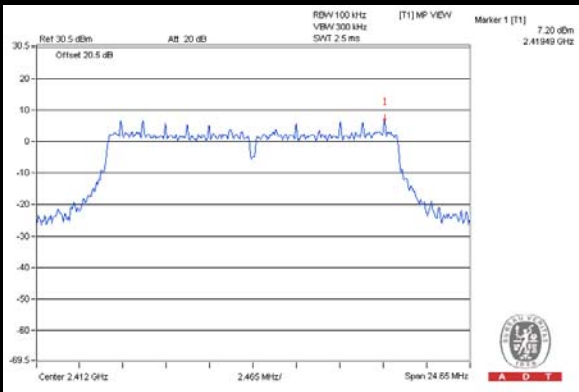




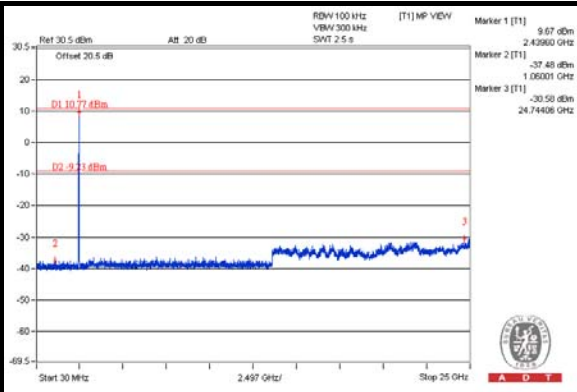
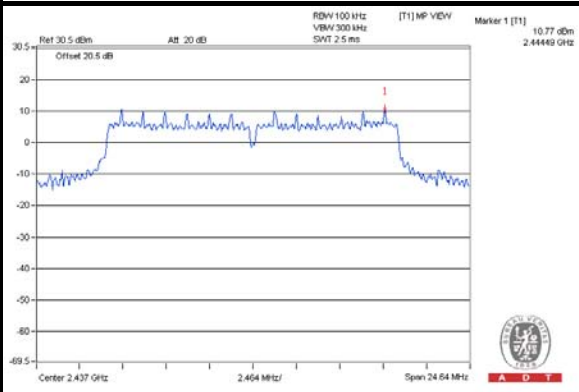
A D T

Chain (1)

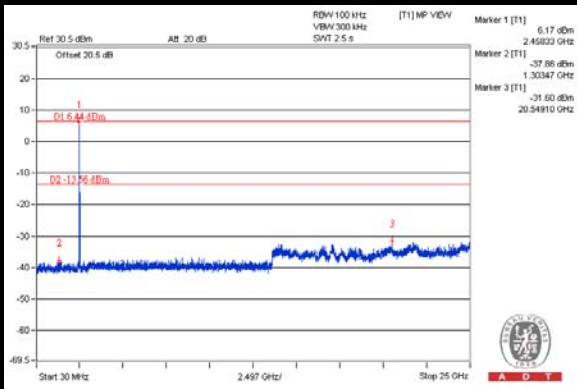
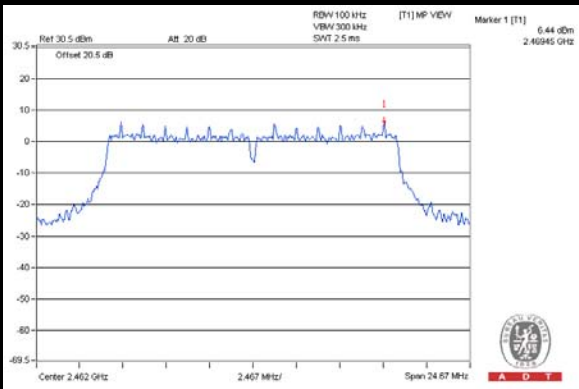
CH 1



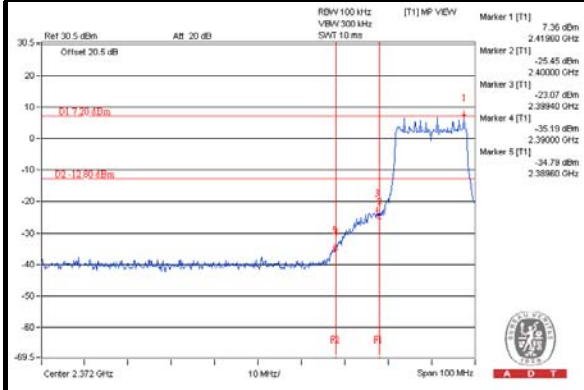
CH 6



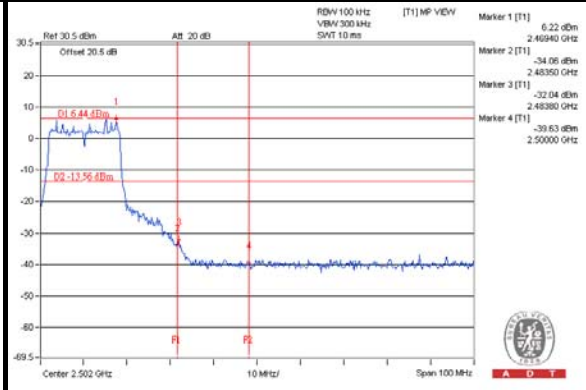
CH 11



CH 1 Band edge



CH 11 Band edge



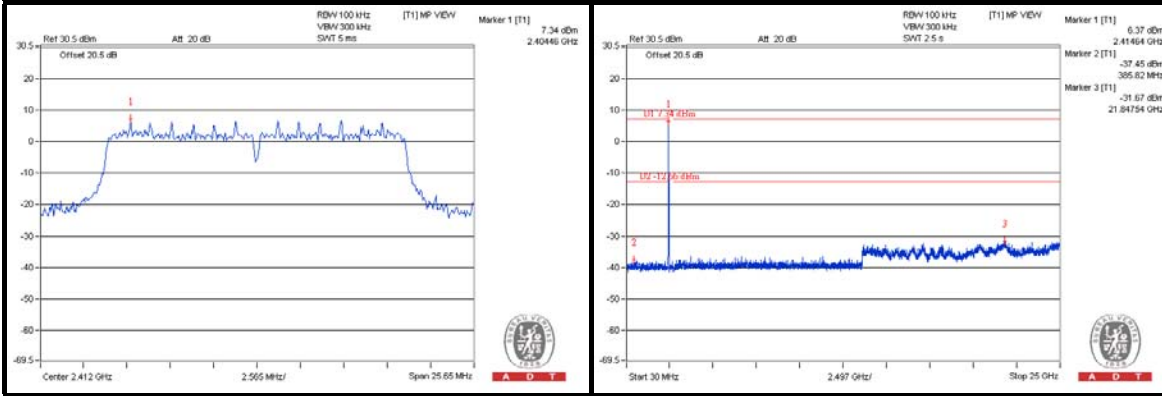


A D T

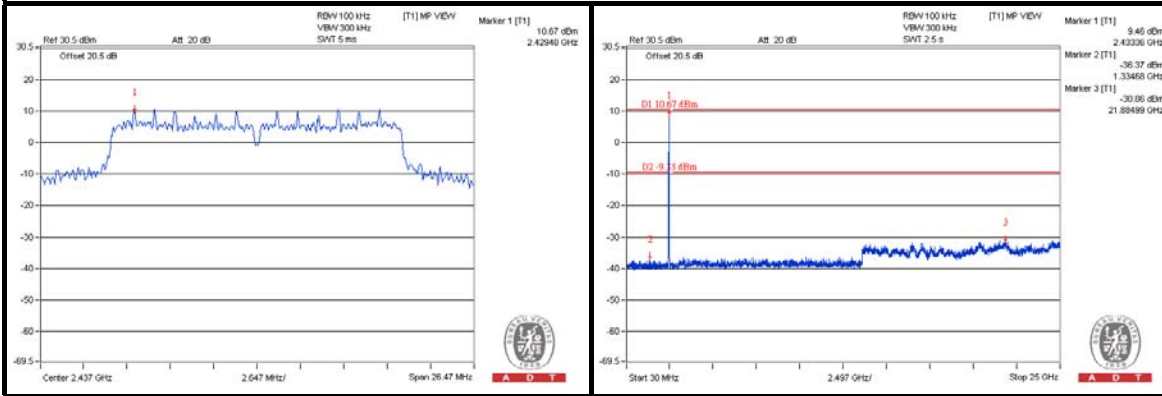
802.11n (HT20):

Chain (0)

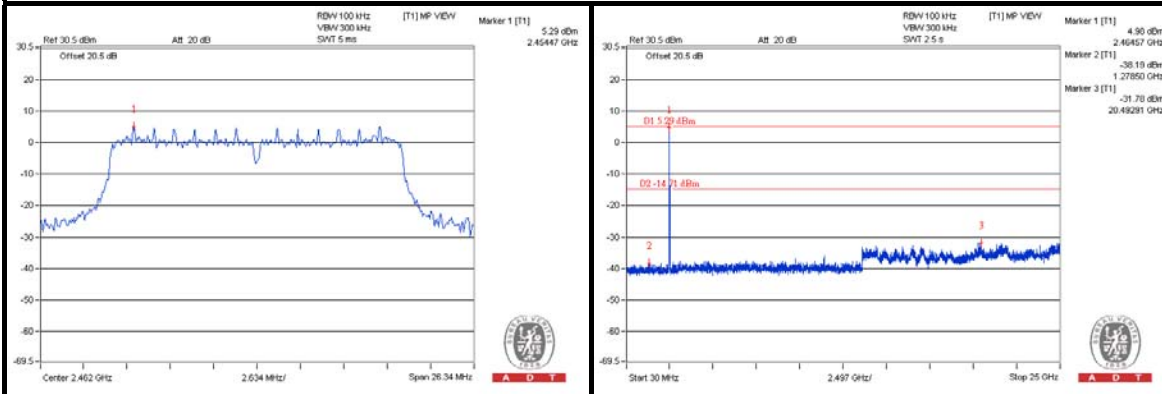
CH 1



CH 6



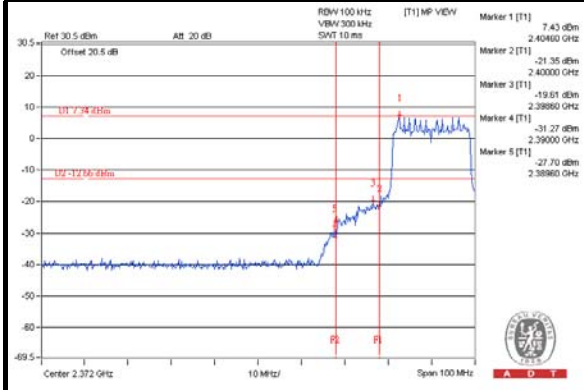
CH 11



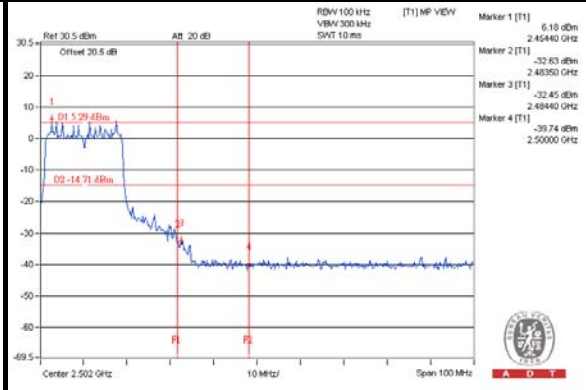


A D T

CH 1 Band edge



CH 11 Band edge

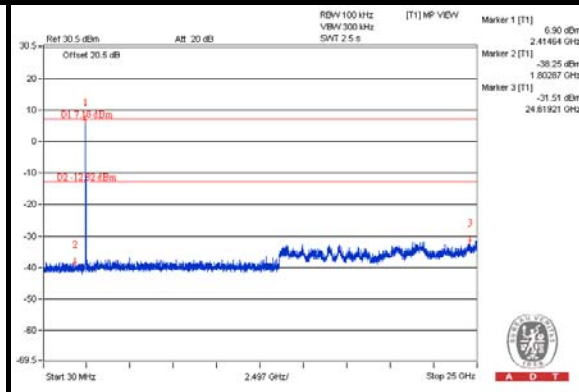
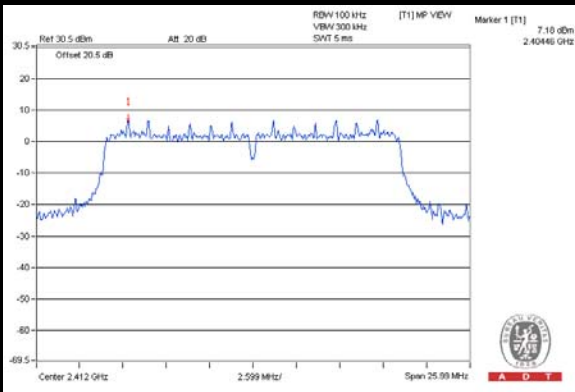




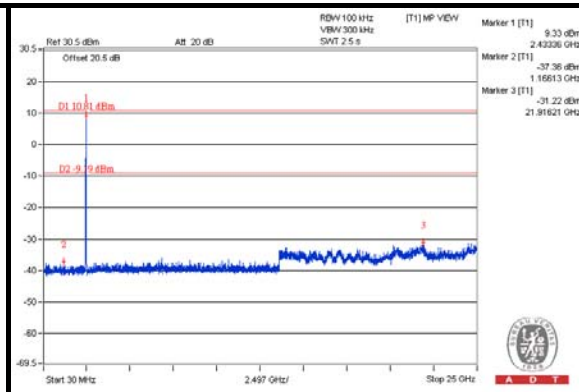
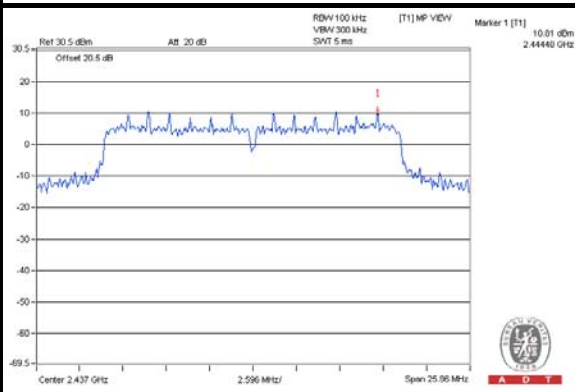
A D T

Chain (1)

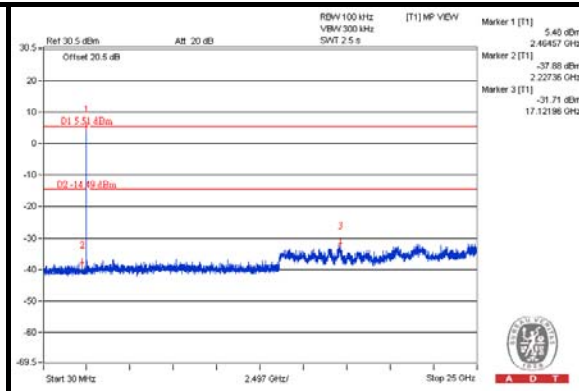
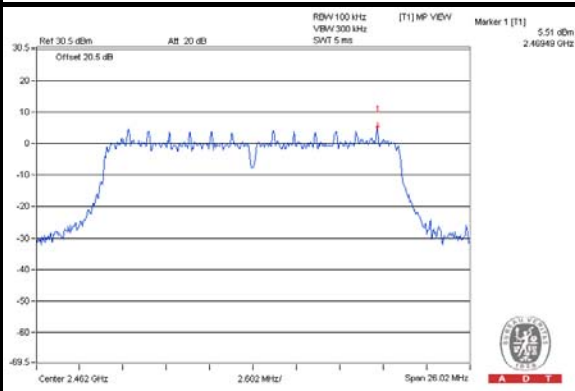
CH 1



CH 6



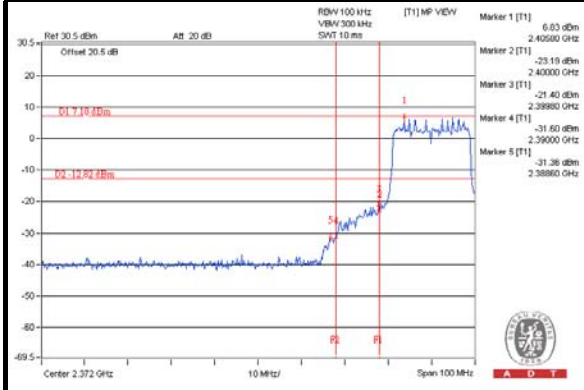
CH 11



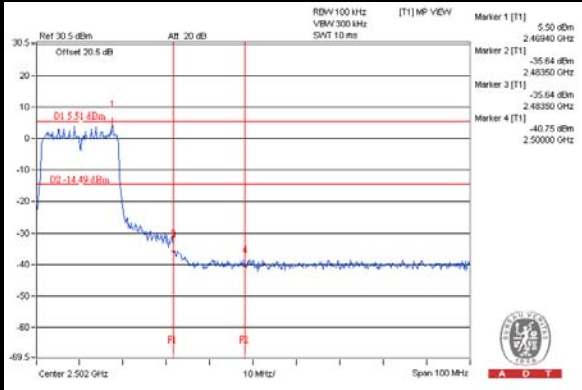


A D T

CH 1 Band edge



CH 11 Band edge



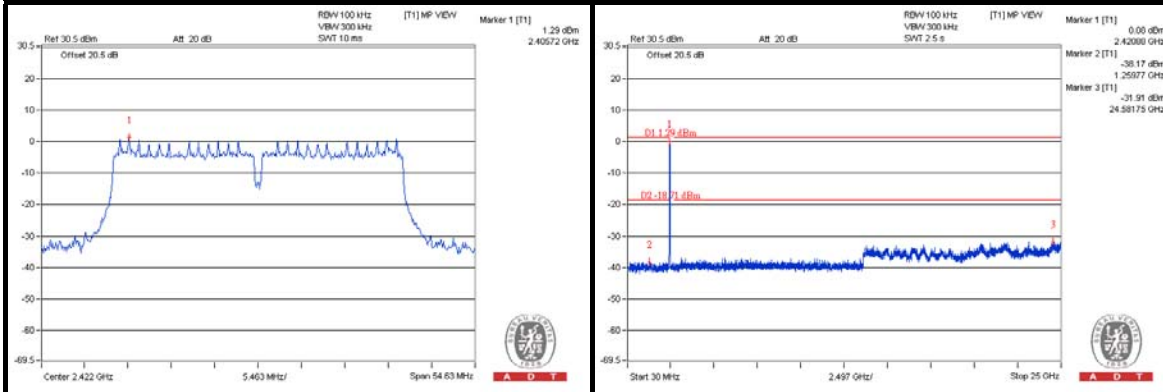


A D T

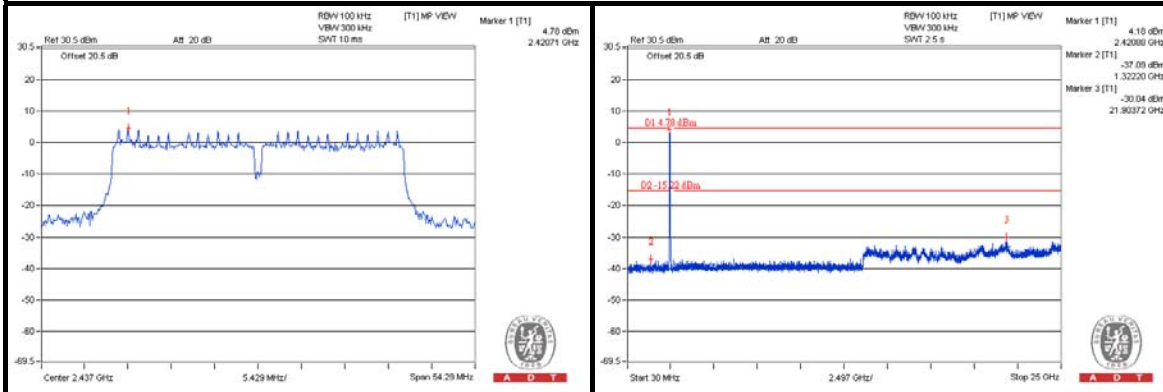
802.11n (HT40):

Chain (0)

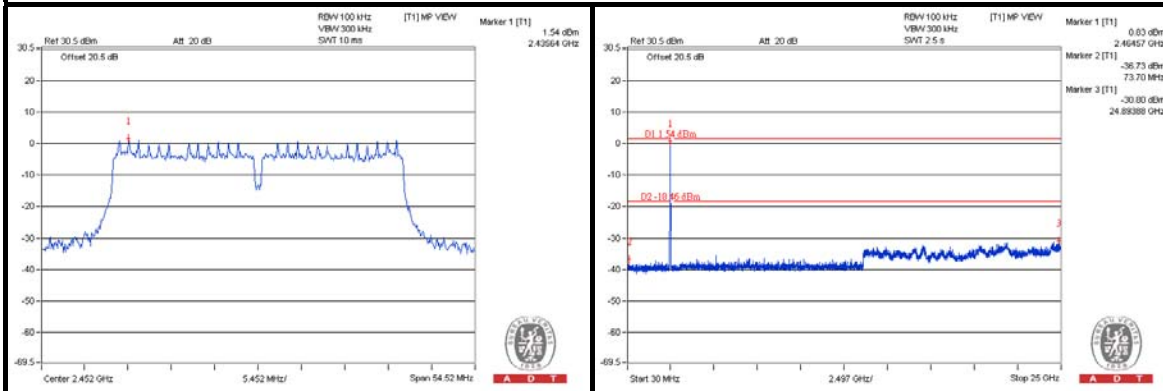
CH 3



CH 6



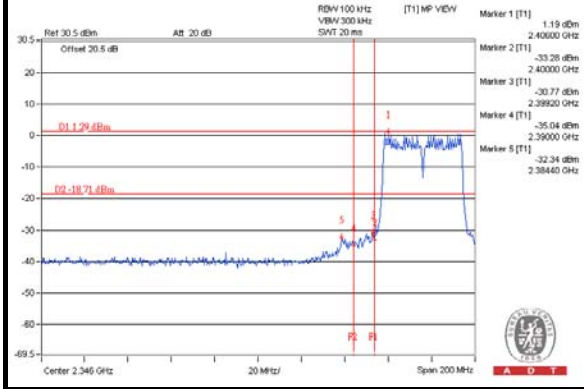
CH 9



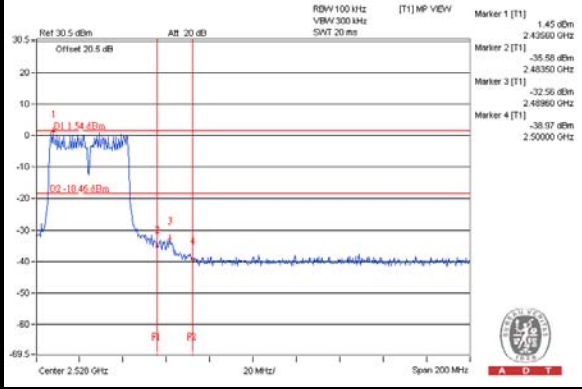


A D T

CH 3 Band edge

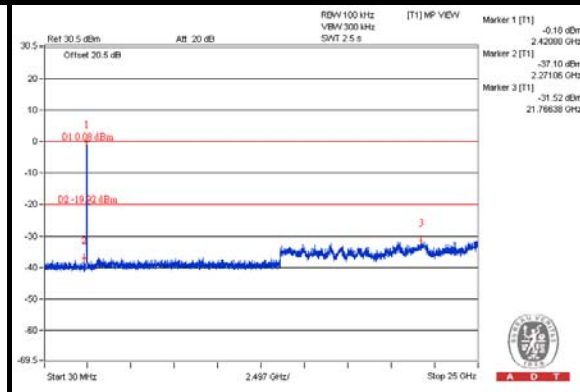
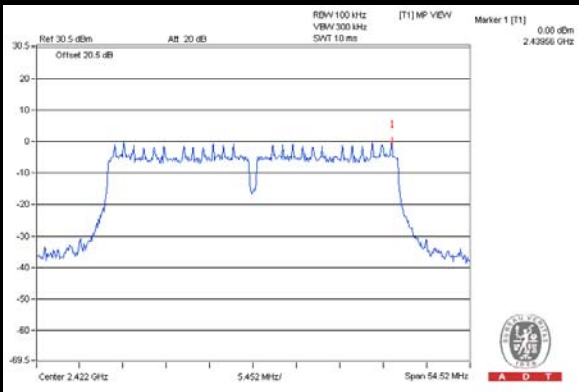


CH 9 Band edge

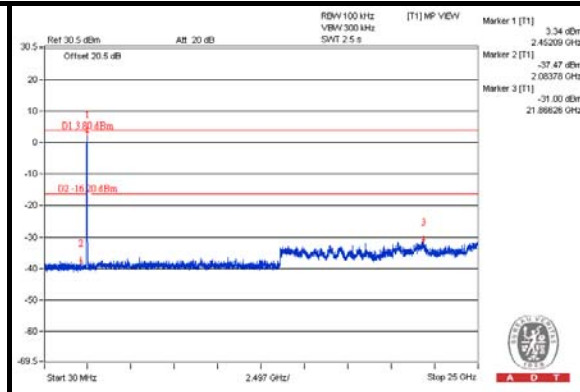
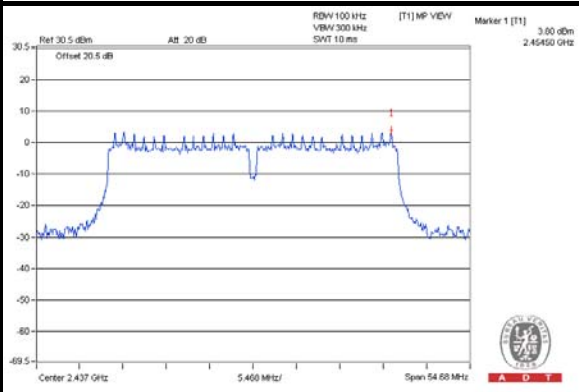


Chain (1)

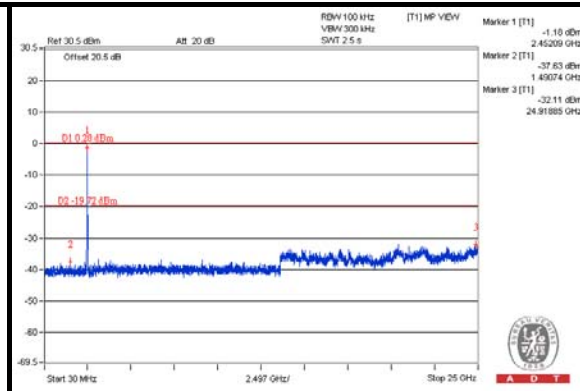
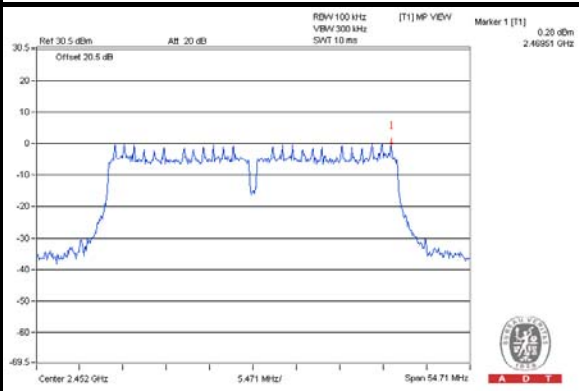
CH 3



CH 6



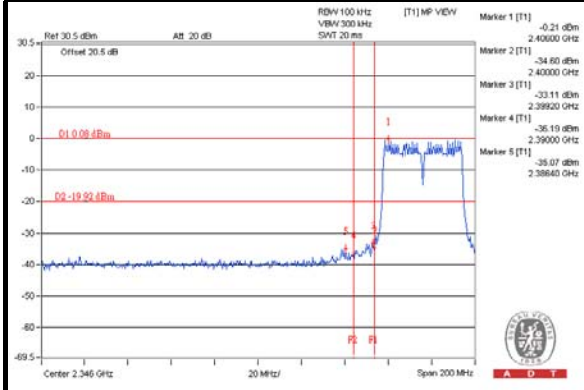
CH 9



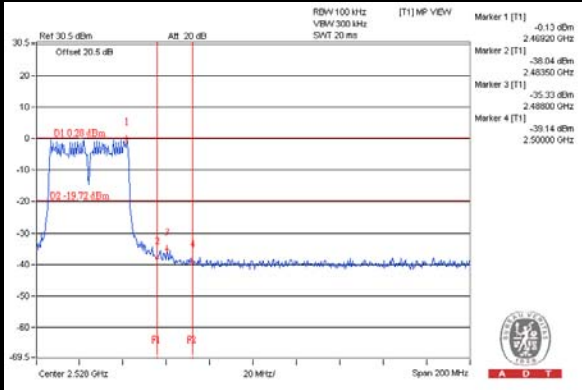


A D T

CH 3 Band edge



CH 9 Band edge



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Fax: 886-2-26052943

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Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.



A D T

7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

--- END ---