

FCC TEST REPORT (WLAN 15.407)

REPORT NO.: RF140611E02-1

MODEL NO.: NP05LM

FCC ID: RRK-NECNP05LM

RECEIVED: June 11, 2014

TESTED: June 12 to 20, 2014

ISSUED: July 14, 2014

APPLICANT: Alpha Networks Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140611E02-1	Original release	July 14, 2014

1. CERTIFICATION

PRODUCT: Wireless LAN Unit
BRAND NAME: NEC
MODEL NO.: NP05LM
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: Alpha Networks Inc.
TESTED: June 12 to 20, 2014
STANDARDS: **FCC Part 15, Subpart E (Section 15.407)**
ANSI C63.10-2009

The above equipment (Model: NP05LM) 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 : Phoenix Huang , **DATE:** July 14, 2014
(Phoenix Huang, Specialist)

APPROVED BY : May Chen , **DATE:** July 14, 2014
(May Chen, Manager)

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.407(b)(6)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -17.52dB at 0.18516MHz
15.407 (b)(1/2/3/4/6)	Radiated Emissions & Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -0.4dB at 5720.00MHz.
15.407(a/1/2/3)	Transmit Power	PASS	Meet the requirement of limit.
15.407(a/1/2/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(e)	6dB bandwidth	PASS	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used.

- NOTE:** 1. The EUT was operating in 2400 ~ 2483.5MHz, 5.15~5.35GHz, 5.47~5.6GHz & 5.65~5.725GHz and 5.725~5.850GHz frequencies band. This report was recorded the RF parameters including 5.15~5.35GHz, 5.47~5.6GHz & 5.65~5.725GHz and 5.725~5.850GHz. For the 2400 ~ 2483.5MHz RF parameters was recorded in another test report.
2. The DFS report was recorded in another test report.

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	2.86 dB
Radiated emissions (30MHz-1GHz)	5.37 dB
Radiated emissions (1GHz -6GHz)	3.72 dB
Radiated emissions (6GHz -18GHz)	4.00 dB
Radiated emissions (18GHz -40GHz)	4.11 dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT (WLAN)

PRODUCT	Wireless LAN Unit
MODEL NO.	NP05LM
POWER SUPPLY	5Vdc (from host equipment)
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: up to 11Mbps 802.11a / g: up to 54Mbps 802.11n: up to 300Mbps
OPERATING FREQUENCY	For 15.407 5.18 ~ 5.24GHz, 5.26 ~ 5.32GHz, 5.50 ~ 5.58GHz, 5.66GHz ~ 5.70GHz, 5.745 ~ 5.825GHz
	For 15.247 2.412 ~ 2.462GHz
NUMBER OF CHANNEL	For 15.407 21 for 802.11a, 802.11n (HT20) 9 for 802.11n (HT40)
	For 15.247 11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40)
MAXIMUM OUTPUT POWER	For 15.407 802.11a: 138.357mW 802.11n (HT20): 198.713mW 802.11n (HT40): 169.13mW For 15.247 802.11b: 257.632mW 802.11g: 289.734mW 802.11n (HT20): 543.531mW 802.11n (HT40): 448.295mW
ANTENNA TYPE	Please see NOTE
DATA CABLE	NA
I/O PORTS	Refer to user's manual
ASSOCIATED DEVICES	NA

Note:

- 2.4GHz and 5GHz technology can not transmit at same time.
- The antennas provided to the EUT, please refer to the following table:

Antenna No.	Transmitter Circuit	Brand	Antenna Gain(dBi) < including cable loss>	Frequency range (GHz ~ GHz)	Antenna Type	Connector Type
1	Chain (0)	ALPHA	2.0	2.4~2.4835	Monopole	None (like solder)
			2.88	5.15~5.850		
2	Chain (1)	ALPHA	2.38	2.4~2.4835	Monopole	None (like solder)
			2.61	5.15~5.850		

NOTE:

- From the above antennas, Ant. 2 was selected as representative antenna for the 802.11b/g test and its data was recorded in this report.
- From the above antennas, Ant. 1 was selected as representative antenna for the 802.11a test and its data was recorded in this report.

- The EUT incorporates a MIMO function without beamforming.

MODULATION MODE	DATA RATE (MCS)	TX & RX CONFIGURATION	
802.11a	6 ~ 54Mbps	1TX (Diversity)	2RX
802.11b	1 ~ 11Mbps	1TX (Diversity)	1RX (Diversity)
802.11g	6 ~ 54Mbps	1TX (Diversity)	2RX
802.11n (HT20)	MCS 0~7	1TX (Diversity)	2RX
	MCS 8~15	2TX	2RX
802.11n (HT40)	MCS 0~7	1TX (Diversity)	2RX
	MCS 8~15	2TX	2RX

- 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.

3.2 DESCRIPTION OF TEST MODES

Operated in 5150 ~ 5250MHz band:

4 channels are provided for 802.11a, 802.11n (HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

Operated in 5250 ~ 5350MHz band:

4 channels are provided for 802.11a, 802.11n (HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

Operated in 5470MHz ~ 5600MHz & 5650MHz ~ 5725MHz bands:

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	116	5580 MHz
104	5520 MHz	132	5660 MHz
108	5540 MHz	136	5680 MHz
112	5560 MHz	140	5700 MHz

3 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	134	5670 MHz
110	5550 MHz		

Operated in 5725 ~ 5850MHz band:

5 channels are provided for 802.11a, 802.11n (HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40):

CHANNEL	FREQUENCY
151	5755 MHz
159	5795 MHz

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

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

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

NOTE: 1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-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)	36 to 165	60	OFDM	BPSK	13

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)	36 to 165	60	OFDM	BPSK	13

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	MODULATI ON TYPE	DATA RATE (Mbps)
802.11a	36 to 165	36, 40, 48, 52, 60, 64, 100, 116, 132, 140, 149, 157, 165	OFDM	BPSK	6
802.11n (HT20)	36 to 165	36, 40, 48, 52, 60, 64, 100, 116, 132, 140, 149, 157, 165	OFDM	BPSK	13
802.11n (HT40)	38 to 159	38, 46, 54, 62, 102, 110, 134, 151, 159	OFDM	BPSK	27

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	MODULATI ON TYPE	DATA RATE (Mbps)
802.11a	36 to 165	36, 40, 48, 52, 60, 64, 100, 116, 132, 140, 149, 157, 165	OFDM	BPSK	6
802.11n (HT20)	36 to 165	36, 40, 48, 52, 60, 64, 100, 116, 132, 140, 149, 157, 165	OFDM	BPSK	13
802.11n (HT40)	38 to 159	38, 46, 54, 62, 102, 110, 134, 151, 159	OFDM	BPSK	27

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
PLC	25deg. C, 70%RH	120Vac, 60Hz	Mike Hsieh
RE<1G	22deg. C, 68%RH	120Vac, 60Hz	Andy Ho
RE≥1G	25deg. C, 69%RH	120Vac, 60Hz	Andy Ho
APCM	25deg. C, 60%RH	120Vac, 60Hz	Robert Cheng



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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 E (15.407)

789033 D02 General UNII Test Procedures New Rules v01

662911 D01 Multiple Transmitter Output v02r01

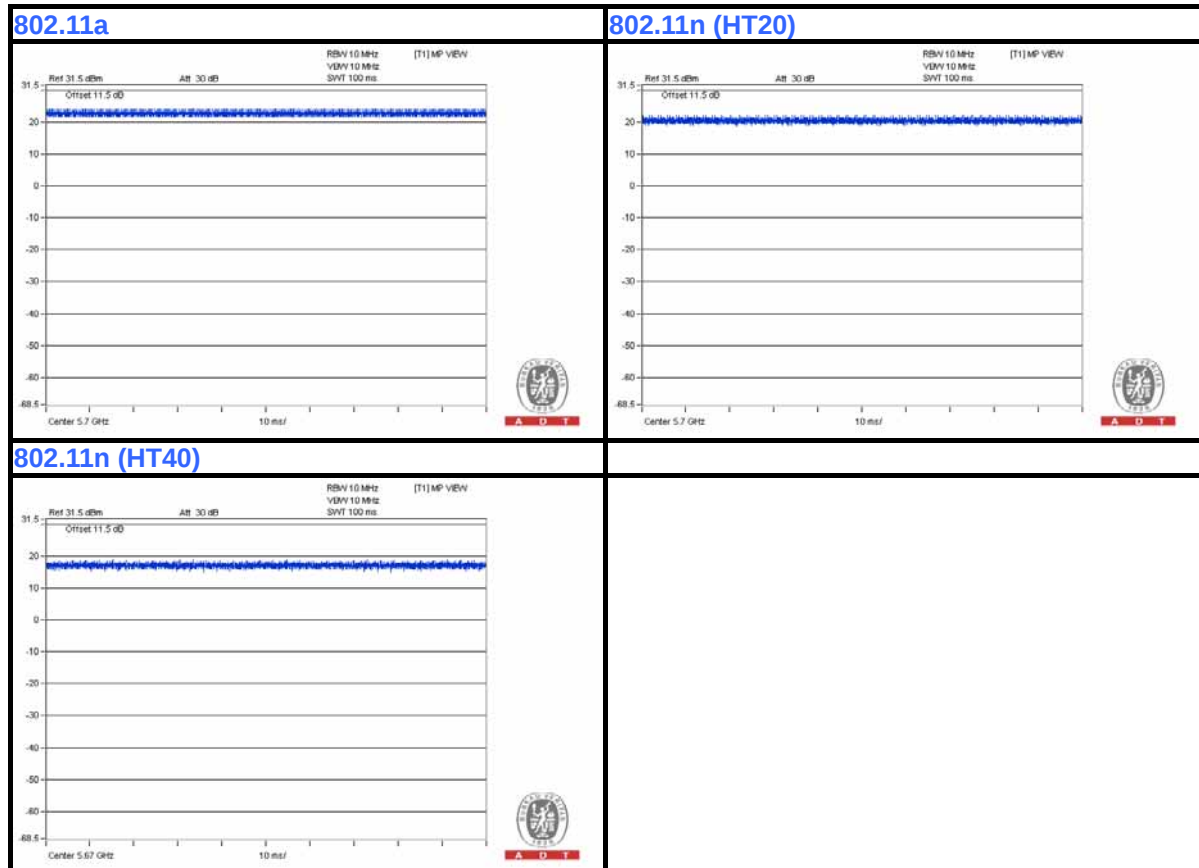
ANSI C63.10-2009

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

Duty cycle of test signal is 100 %, duty factor is not required.





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3.5 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.

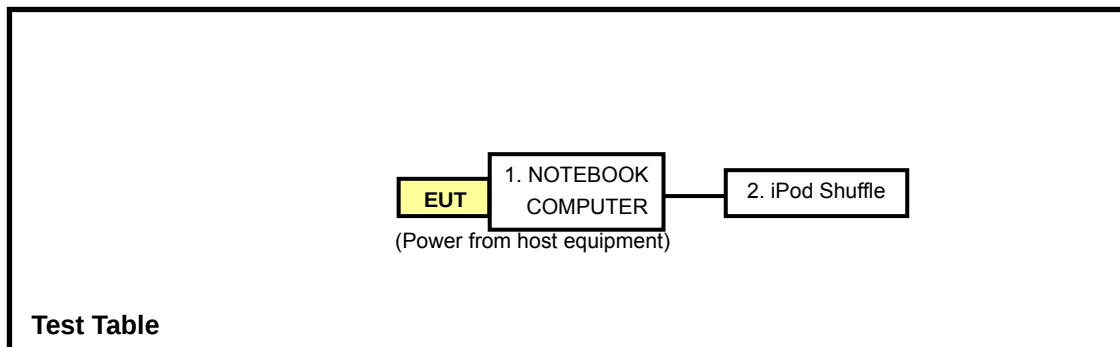
No.	Product	Brand	Model No.	Serial No.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP32LA	HSLB32S	FCC DoC
2	iPod Shuffle	Apple	MC749TA/A	CC4DN25WDFDM	NA

No.	Signal cable description
1	USB to USB cable (0.2m)
2	USB cable (0.1m)

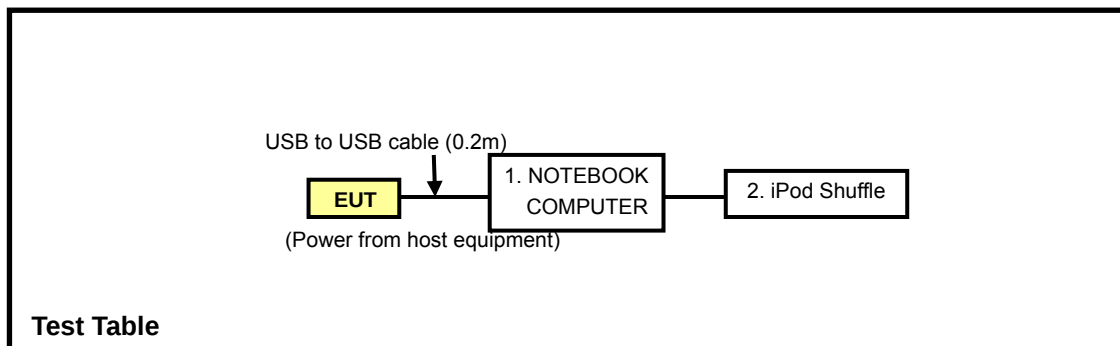
Note: The power cords of the above support units were unshielded (1.8m).

3.6 CONFIGURATION OF SYSTEM UNDER TEST

For conducted emission test:



For other test items:



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 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 0.50 MHz.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS 30	100375	Apr. 29, 2014	Apr. 28, 2015
Line-Impedance Stabilization Network (for EUT) SCHWARZBECK	NSLK8127	8127-522	Sep. 12, 2013	Sep. 11, 2014
Line-Impedance Stabilization Network (for Peripheral)	ENV216	100071	Nov. 13, 2013	Nov. 12, 2014
RF Cable (JYEBAO)	5DFB	COCCAB-001	Mar. 10, 2014	Mar. 09, 2015
50 ohms Terminator	N/A	EMC-03	Sep. 24, 2013	Sep. 23, 2014
50 ohms Terminator	N/A	EMC-02	Oct. 01, 2013	Sep. 30, 2014
Software ADT	BV ADT_Cond_V7.3.7. 3	NA	NA	NA

Note:

- The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- The test was performed in Shielded Room No. C.
- The VCCI Con C Registration No. is C-3611.
- Tested Date: June 13, 2014

4.1.3 TEST PROCEDURES

- 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.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission level under (Limit – 20dB) was not recorded.

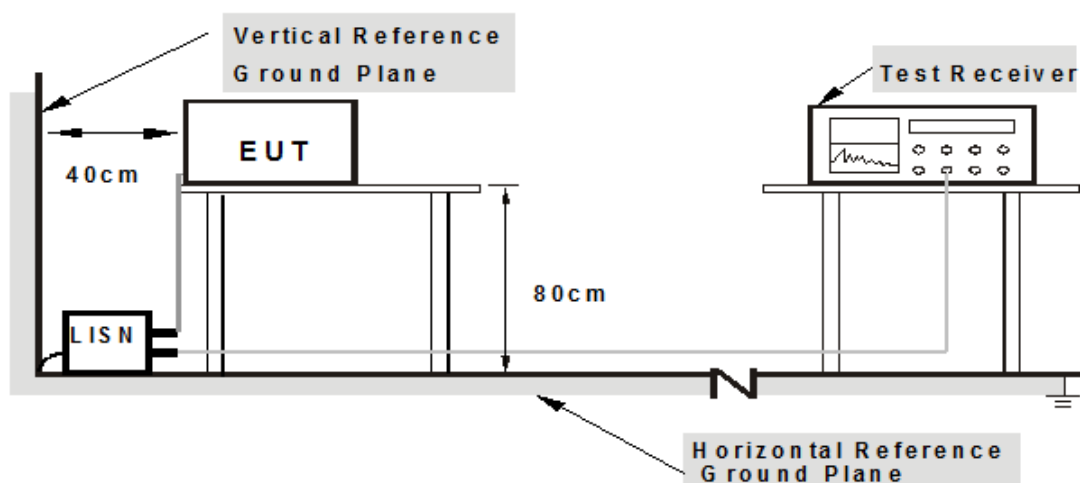
NOTE:

- 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.



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4.1.6 EUT OPERATING CONDITIONS

1. Connect the EUT with the support unit 1 (Notebook Computer) which is placed on a testing table.
2. The communication partner run test program "MP Tool[Ver 1.0.0.0]" to enable EUT under transmission/receiving condition continuously at specific channel frequency.

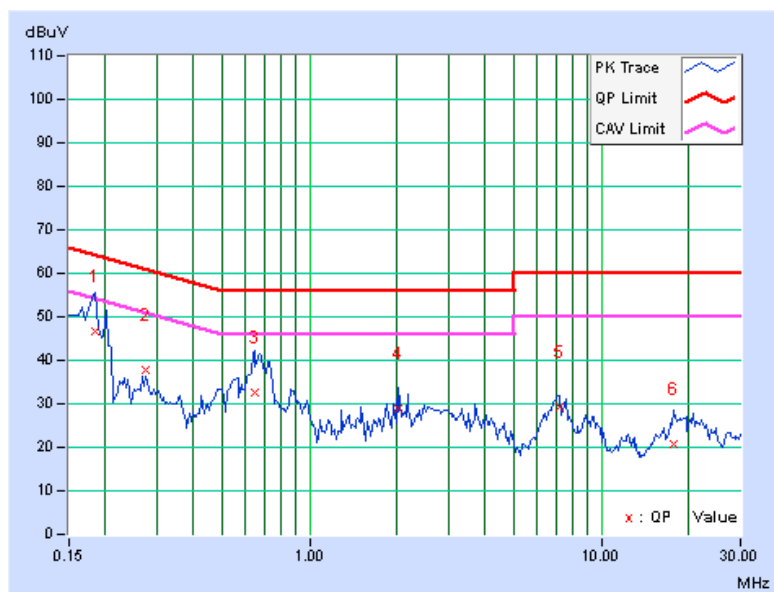
4.1.7 TEST RESULTS

PHASE	Line (L)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
	[MHz]	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18516	0.07	46.66	31.04	46.73	31.11	64.25	54.25	-17.52	-23.14
2	0.27500	0.08	37.79	20.61	37.87	20.69	60.97	50.97	-23.10	-30.28
3	0.64609	0.11	32.37	26.14	32.48	26.25	56.00	46.00	-23.52	-19.75
4	2.02734	0.17	28.83	20.38	29.00	20.55	56.00	46.00	-27.00	-25.45
5	7.16797	0.36	28.73	19.57	29.09	19.93	60.00	50.00	-30.91	-30.07
6	17.80469	0.66	20.04	14.37	20.70	15.03	60.00	50.00	-39.30	-34.97

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

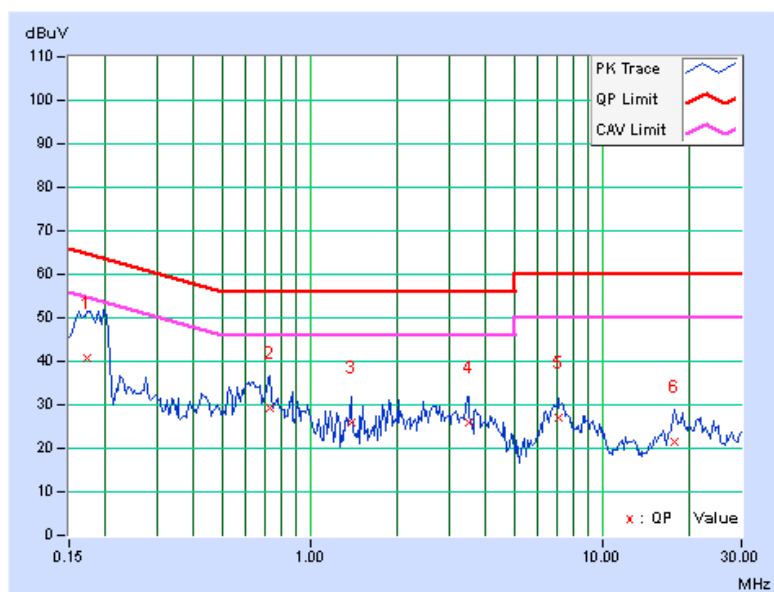


PHASE	Neutral (N)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17344	0.07	40.78	26.00	40.85	26.07	64.79	54.79	-23.94	-28.72
2	0.72813	0.11	29.14	20.43	29.25	20.54	56.00	46.00	-26.75	-25.46
3	1.38281	0.15	25.85	15.97	26.00	16.12	56.00	46.00	-30.00	-29.88
4	3.50781	0.24	25.62	18.14	25.86	18.38	56.00	46.00	-30.14	-27.62
5	7.07422	0.36	26.69	19.74	27.05	20.10	60.00	50.00	-32.95	-29.90
6	17.68359	0.65	20.96	16.48	21.61	17.13	60.00	50.00	-38.39	-32.87

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 BANDEDGE MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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 under any condition of modulation.

4.2.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
789033 D02 General UNII Test Procedures New Rules v01	FIELD STRENGTH AT 3m	
	PK:74 (dBμV/m)	AV:54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	EQUIVALENT FIELD STRENGTH AT 3m
15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	PK:-27 (dBm/MHz) ^{*1} PK:-17 (dBm/MHz) ^{*2}	PK: 68.2(dBμV/m) ^{*1} PK:78.2 (dBμV/m) ^{*2}

NOTE: ^{*1} beyond 10MHz of the band edge ^{*2} within 10 MHz of band edge

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$



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4.2.3 TEST INSTRUMENTS

For Below 1GHz:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY51210105	Jan. 21, 2014	Jan. 20, 2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-03	Nov. 13, 2013	Nov. 12, 2014
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-360	Feb. 26, 2014	Feb. 25, 2015
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: June 12, 2014



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For Above 1GHz:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY50010156	Jan. 15, 2014	Jan. 14, 2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-04	Nov. 13, 2013	Nov. 12, 2014
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Feb. 27, 2014	Feb. 26, 2015
RF Cable	NA	CHHCAB_001	Oct. 06, 2013	Oct. 05, 2014
Spectrum Analyzer R&S	FSV40	100964	July 15, 2013	July 14, 2014
Horn_Antenna AISI	AIH.8018	0000220091110	Dec. 06, 2013	Dec. 05, 2014
Pre-Amplifier Agilent	8449B	3008A01923	Oct. 29, 2013	Oct. 28, 2014
RF Cable	NA	RF104-205 RF104-207 RF104-202	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. H.
4. The FCC Site Registration No. is 797305.
5. The CANADA Site Registration No. is IC 7450H-3.
6. Tested Date: June 14, 2014

4.2.4 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:

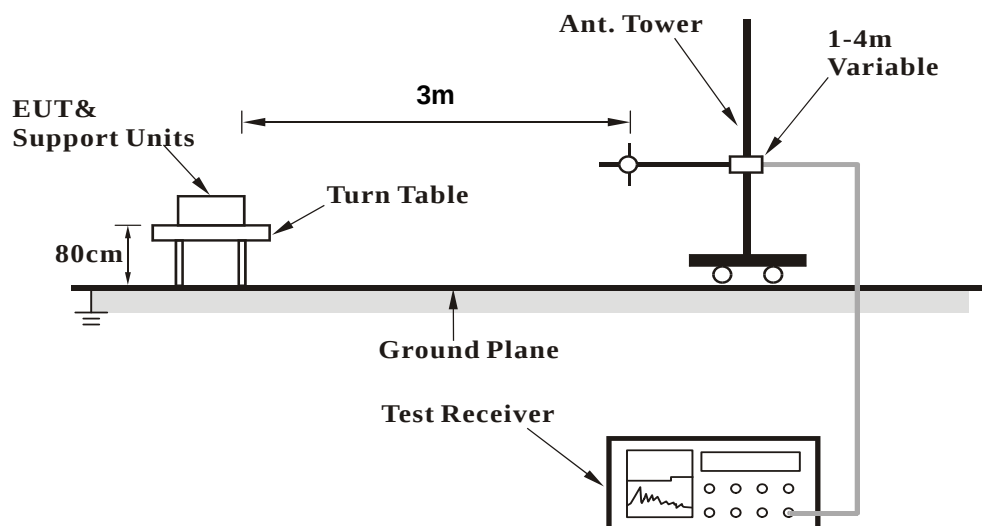
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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.

4.2.5 DEVIATION FROM TEST STANDARD

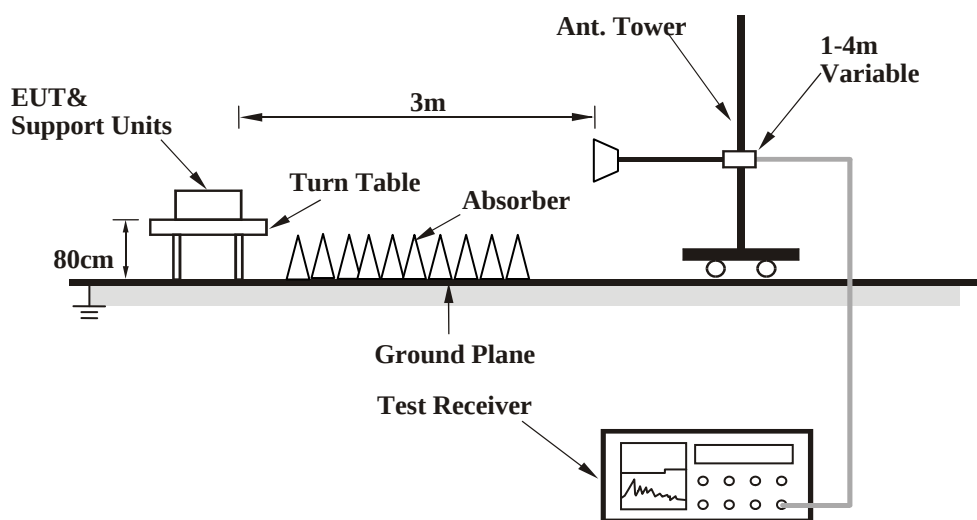
No deviation

4.2.6 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.

4.2.7 EUT OPERATING CONDITION

Same as 4.1.6

4.2.8 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

802.11n (HT20)

CHANNEL	TX Channel 60	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	148.49	33.8 QP	43.5	-9.7	1.38 H	206	46.92	-13.15
2	213.43	39.5 QP	43.5	-4.0	1.31 H	206	55.76	-16.25
3	232.49	36.5 QP	46.0	-9.5	1.23 H	227	52.09	-15.56
4	307.57	38.1 QP	46.0	-7.9	1.00 H	214	50.22	-12.13
5	666.56	35.9 QP	46.0	-10.1	1.00 H	222	39.92	-3.99
6	959.99	36.7 QP	46.0	-9.3	1.50 H	78	35.67	1.06
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	33.25	31.7 QP	40.0	-8.3	1.00 V	118	46.12	-14.38
2	166.58	34.6 QP	43.5	-8.9	1.50 V	360	48.15	-13.52
3	191.55	34.7 QP	43.5	-8.8	1.00 V	244	50.62	-15.93
4	213.48	36.1 QP	43.5	-7.4	1.00 V	283	52.36	-16.25
5	340.84	37.7 QP	46.0	-8.3	1.50 V	360	48.98	-11.30
6	663.85	37.5 QP	46.0	-8.5	1.00 V	144	41.52	-4.03

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

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5150.00	61.9 PK	74.0	-12.1	1.02 H	5	18.41	43.49
2	5150.00	46.6 AV	54.0	-7.4	1.02 H	5	3.11	43.49
3	*5180.00	105.8 PK			1.02 H	5	62.33	43.47
4	*5180.00	97.0 AV			1.02 H	5	53.53	43.47
5	#10360.00	54.5 PK	74.0	-19.5	1.00 H	178	4.36	50.14
6	#10360.00	41.5 AV	54.0	-12.5	1.00 H	178	-8.64	50.14
7	15540.00	60.7 PK	74.0	-13.3	1.00 H	115	5.44	55.26
8	15540.00	48.2 AV	54.0	-5.8	1.00 H	115	-7.06	55.26
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	5150.00	62.5 PK	74.0	-11.5	1.15 V	92	19.01	43.49
2	5150.00	46.8 AV	54.0	-7.2	1.15 V	92	3.31	43.49
3	*5180.00	106.5 PK			1.15 V	92	63.03	43.47
4	*5180.00	97.8 AV			1.15 V	92	54.33	43.47
5	#10360.00	54.9 PK	74.0	-19.1	1.00 V	212	4.76	50.14
6	#10360.00	41.9 AV	54.0	-12.1	1.00 V	212	-8.24	50.14
7	15540.00	61.5 PK	74.0	-12.5	1.00 V	161	6.24	55.26
8	15540.00	48.2 AV	54.0	-5.8	1.00 V	161	-7.06	55.26

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5200.00	105.9 PK			1.42 H	130	62.44	43.46
2	*5200.00	97.5 AV			1.42 H	130	54.04	43.46
3	#10400.00	54.1 PK	74.0	-19.9	1.01 H	192	3.98	50.12
4	#10400.00	41.3 AV	54.0	-12.7	1.01 H	192	-8.82	50.12
5	15600.00	61.0 PK	74.0	-13.0	1.06 H	114	5.58	55.42
6	15600.00	48.2 AV	54.0	-5.8	1.06 H	114	-7.22	55.42

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	*5200.00	107.9 PK			1.15 V	93	64.44	43.46
2	*5200.00	99.0 AV			1.15 V	93	55.54	43.46
3	#10400.00	54.8 PK	74.0	-19.2	1.04 V	208	4.68	50.12
4	#10400.00	41.9 AV	54.0	-12.1	1.04 V	208	-8.22	50.12
5	15600.00	61.7 PK	74.0	-12.3	1.05 V	149	6.28	55.42
6	15600.00	48.6 AV	54.0	-5.4	1.05 V	149	-6.82	55.42

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5240.00	105.9 PK			1.44 H	118	62.35	43.55
2	*5240.00	97.8 AV			1.44 H	118	54.25	43.55
3	5350.00	51.3 PK	74.0	-22.7	1.44 H	118	7.53	43.77
4	5350.00	39.2 AV	54.0	-14.8	1.44 H	118	-4.57	43.77
5	#10480.00	54.1 PK	74.0	-19.9	1.05 H	176	3.83	50.27
6	#10480.00	41.2 AV	54.0	-12.8	1.05 H	176	-9.07	50.27
7	15720.00	60.8 PK	74.0	-13.2	1.07 H	102	5.43	55.37
8	15720.00	48.2 AV	54.0	-5.8	1.07 H	102	-7.17	55.37
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	*5240.00	108.1 PK			1.02 V	98	64.55	43.55
2	*5240.00	99.2 AV			1.02 V	98	55.65	43.55
3	5350.00	52.8 PK	74.0	-21.2	1.02 V	98	9.03	43.77
4	5350.00	40.1 AV	54.0	-13.9	1.02 V	98	-3.67	43.77
5	#10480.00	54.8 PK	74.0	-19.2	1.02 V	226	4.53	50.27
6	#10480.00	41.5 AV	54.0	-12.5	1.02 V	226	-8.77	50.27
7	15720.00	61.2 PK	74.0	-12.8	1.05 V	159	5.83	55.37
8	15720.00	48.2 AV	54.0	-5.8	1.05 V	159	-7.17	55.37

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) – 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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5260.00	106.1 PK			1.39 H	141	62.52	43.58
2	*5260.00	97.5 AV			1.39 H	141	53.92	43.58
3	#10520.00	53.8 PK	74.0	-20.2	1.02 H	183	3.51	50.29
4	#10520.00	41.0 AV	54.0	-13.0	1.02 H	183	-9.29	50.29
5	15780.00	60.9 PK	74.0	-13.1	1.07 H	102	5.60	55.30
6	15780.00	47.9 AV	54.0	-6.1	1.07 H	102	-7.40	55.30
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	*5260.00	109.5 PK			1.13 V	93	65.92	43.58
2	*5260.00	100.3 AV			1.13 V	93	56.72	43.58
3	#10520.00	55.1 PK	74.0	-18.9	1.05 V	224	4.81	50.29
4	#10520.00	42.1 AV	54.0	-11.9	1.05 V	224	-8.19	50.29
5	15780.00	62.2 PK	74.0	-11.8	1.05 V	156	6.90	55.30
6	15780.00	48.7 AV	54.0	-5.3	1.05 V	156	-6.60	55.30

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5300.00	108.7 PK			1.39 H	135	65.03	43.67
2	*5300.00	100.6 AV			1.39 H	135	56.93	43.67
3	10600.00	54.2 PK	74.0	-19.8	1.00 H	182	3.95	50.25
4	10600.00	41.2 AV	54.0	-12.8	1.00 H	182	-9.05	50.25
5	15900.00	61.5 PK	74.0	-12.5	1.01 H	111	6.08	55.42
6	15900.00	48.5 AV	54.0	-5.5	1.01 H	111	-6.92	55.42

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	*5300.00	109.9 PK			1.10 V	92	66.23	43.67
2	*5300.00	101.1 AV			1.10 V	92	57.43	43.67
3	10600.00	54.9 PK	74.0	-19.1	1.04 V	215	4.65	50.25
4	10600.00	41.9 AV	54.0	-12.1	1.04 V	215	-8.35	50.25
5	15900.00	61.7 PK	74.0	-12.3	1.05 V	158	6.28	55.42
6	15900.00	48.5 AV	54.0	-5.5	1.05 V	158	-6.92	55.42

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.



A D T

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5320.00	119.4 PK			1.41 H	122	75.70	43.70
2	*5320.00	100.9 AV			1.41 H	122	57.20	43.70
3	5350.00	55.1 PK	74.0	-18.9	1.41 H	122	11.33	43.77
4	5350.00	41.9 AV	54.0	-12.1	1.41 H	122	-1.87	43.77
5	10640.00	54.4 PK	74.0	-19.6	1.05 H	182	4.11	50.29
6	10640.00	41.6 AV	54.0	-12.4	1.05 H	182	-8.69	50.29
7	15960.00	61.3 PK	74.0	-12.7	1.06 H	112	5.80	55.50
8	15960.00	48.6 AV	54.0	-5.4	1.06 H	112	-6.90	55.50

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	*5320.00	110.5 PK			1.11 V	92	66.80	43.70
2	*5320.00	100.9 AV			1.11 V	92	57.20	43.70
3	5350.00	66.7 PK	74.0	-7.3	1.11 V	92	22.93	43.77
4	5350.00	53.5 AV	54.0	-0.5	1.11 V	92	9.73	43.77
5	10640.00	55.5 PK	74.0	-18.5	1.03 V	202	5.21	50.29
6	10640.00	42.4 AV	54.0	-11.6	1.03 V	202	-7.89	50.29
7	15960.00	62.2 PK	74.0	-11.8	1.00 V	170	6.70	55.50
8	15960.00	48.6 AV	54.0	-5.4	1.00 V	170	-6.90	55.50

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.



A D T

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5460.00	54.6 PK	74.0	-19.4	1.40 H	131	10.62	43.98
2	5460.00	41.5 AV	54.0	-12.5	1.40 H	131	-2.48	43.98
3	#5470.00	65.3 PK	74.0	-8.7	1.40 H	131	21.30	44.00
4	#5470.00	45.4 AV	54.0	-8.6	1.40 H	131	1.40	44.00
5	*5500.00	106.4 PK			1.40 H	131	62.33	44.07
6	*5500.00	97.9 AV			1.40 H	131	53.83	44.07
7	11000.00	54.7 PK	74.0	-19.3	1.02 H	197	4.06	50.64
8	11000.00	42.1 AV	54.0	-11.9	1.02 H	197	-8.54	50.64
9	#16500.00	61.6 PK	74.0	-12.4	1.10 H	99	4.73	56.87
10	#16500.00	48.6 AV	54.0	-5.4	1.10 H	99	-8.27	56.87

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	5460.00	55.0 PK	74.0	-19.0	1.06 V	96	11.02	43.98
2	5460.00	41.1 AV	54.0	-12.9	1.06 V	96	-2.88	43.98
3	#5470.00	60.8 PK	74.0	-13.2	1.06 V	96	16.80	44.00
4	#5470.00	45.3 AV	54.0	-8.7	1.06 V	96	1.30	44.00
5	*5500.00	108.5 PK			1.06 V	96	64.43	44.07
6	*5500.00	98.1 AV			1.06 V	96	54.03	44.07
7	11000.00	54.3 PK	74.0	-19.7	1.06 V	215	3.66	50.64
8	11000.00	41.5 AV	54.0	-12.5	1.06 V	215	-9.14	50.64
9	#16500.00	61.3 PK	74.0	-12.7	1.02 V	147	4.43	56.87
10	#16500.00	47.7 AV	54.0	-6.3	1.02 V	147	-9.17	56.87

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5580.00	106.3 PK			1.47 H	133	98.13	8.17
2	*5580.00	98.0 AV			1.47 H	133	89.83	8.17
3	11160.00	54.1 PK	74.0	-19.9	1.04 H	196	39.87	14.23
4	11160.00	41.5 AV	54.0	-12.5	1.04 H	196	27.27	14.23
5	#16740.00	61.1 PK	74.0	-12.9	1.02 H	118	39.99	21.11
6	#16740.00	48.1 AV	54.0	-5.9	1.02 H	118	26.99	21.11
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	*5580.00	107.9 PK			1.05 V	81	99.73	8.17
2	*5580.00	98.2 AV			1.05 V	81	90.03	8.17
3	11160.00	54.0 PK	74.0	-20.0	1.05 V	230	39.77	14.23
4	11160.00	41.4 AV	54.0	-12.6	1.05 V	230	27.17	14.23
5	#16740.00	61.3 PK	74.0	-12.7	1.08 V	139	40.19	21.11
6	#16740.00	47.8 AV	54.0	-6.2	1.08 V	139	26.69	21.11

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 132	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5660.00	106.0 PK			1.48 H	112	61.72	44.28
2	*5660.00	97.7 AV			1.48 H	112	53.42	44.28
3	11320.00	54.2 PK	74.0	-19.8	1.07 H	198	3.40	50.80
4	11320.00	41.4 AV	54.0	-12.6	1.07 H	198	-9.40	50.80
5	#16980.00	61.2 PK	74.0	-12.8	1.05 H	116	3.20	58.00
6	#16980.00	48.5 AV	54.0	-5.5	1.05 H	116	-9.50	58.00

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	*5660.00	108.0 PK			1.05 V	90	63.72	44.28
2	*5660.00	97.8 AV			1.05 V	90	53.52	44.28
3	11320.00	53.6 PK	74.0	-20.4	1.07 V	215	2.80	50.80
4	11320.00	41.0 AV	54.0	-13.0	1.07 V	215	-9.80	50.80
5	#16980.00	61.0 PK	74.0	-13.0	1.00 V	145	3.00	58.00
6	#16980.00	47.3 AV	54.0	-6.7	1.00 V	145	-10.70	58.00

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) – 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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5700.00	104.3 PK			1.45 H	121	59.97	44.33
2	*5700.00	95.4 AV			1.45 H	121	51.07	44.33
3	#5725.00	65.4 PK	74.0	-8.6	1.41 H	133	21.04	44.36
4	#5725.00	45.6 AV	54.0	-8.4	1.41 H	133	1.24	44.36
5	11400.00	55.1 PK	74.0	-18.9	1.10 H	175	4.51	50.59
6	11400.00	42.3 AV	54.0	-11.7	1.10 H	175	-8.29	50.59
7	#17100.00	61.6 PK	74.0	-12.4	1.08 H	112	3.19	58.41
8	#17100.00	48.8 AV	54.0	-5.2	1.08 H	112	-9.61	58.41

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	*5700.00	106.8 PK			1.04 V	98	62.47	44.33
2	*5700.00	96.7 AV			1.04 V	98	52.37	44.33
3	#5725.00	68.5 PK	74.0	-5.5	1.04 V	98	24.14	44.36
4	#5725.00	52.8 AV	54.0	-1.2	1.04 V	98	8.44	44.36
5	11400.00	53.8 PK	74.0	-20.2	1.02 V	211	3.21	50.59
6	11400.00	41.2 AV	54.0	-12.8	1.02 V	211	-9.39	50.59
7	#17100.00	60.9 PK	74.0	-13.1	1.00 V	152	2.49	58.41
8	#17100.00	47.3 AV	54.0	-6.7	1.00 V	152	-11.11	58.41

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	#5715.00	66.2 PK	74.0	-7.8	1.38 H	113	21.85	44.35
2	#5715.00	48.3 AV	54.0	-5.7	1.38 H	113	3.95	44.35
3	#5725.00	77.8 PK	78.2	-0.4	1.38 H	113	33.44	44.36
4	*5745.00	108.3 PK			1.38 H	113	63.91	44.39
5	*5745.00	99.4 AV			1.38 H	113	55.01	44.39
6	11490.00	54.1 PK	74.0	-19.9	1.00 H	190	3.39	50.71
7	11490.00	41.1 AV	54.0	-12.9	1.00 H	190	-9.61	50.71
8	#17235.00	59.6 PK	74.0	-14.4	1.39 H	360	0.77	58.83
9	#17235.00	48.4 AV	54.0	-5.6	1.39 H	360	-10.43	58.83

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	#5715.00	62.5 PK	74.0	-11.5	1.03 V	280	18.15	44.35
2	#5715.00	46.0 AV	54.0	-8.0	1.03 V	280	1.65	44.35
3	#5725.00	69.8 PK	78.2	-8.4	1.03 V	280	25.44	44.36
4	*5745.00	105.4 PK			1.03 V	280	61.01	44.39
5	*5745.00	96.1 AV			1.03 V	280	51.71	44.39
6	11490.00	53.4 PK	74.0	-20.6	1.14 V	202	2.69	50.71
7	11490.00	42.6 AV	54.0	-11.4	1.14 V	202	-8.11	50.71
8	#17235.00	62.4 PK	74.0	-11.6	1.23 V	110	3.57	58.83
9	#17235.00	51.4 AV	54.0	-2.6	1.23 V	110	-7.43	58.83

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	#5725.00	53.4 PK	78.2	-24.8	1.65 H	112	9.04	44.36
2	*5785.00	110.1 PK			1.65 H	112	65.67	44.43
3	*5785.00	101.1 AV			1.65 H	112	56.67	44.43
4	#5850.00	54.7 PK	78.2	-23.5	1.65 H	112	10.16	44.54
5	11570.00	53.9 PK	74.0	-20.1	1.00 H	179	3.15	50.75
6	11570.00	41.0 AV	54.0	-13.0	1.00 H	179	-9.75	50.75
7	#17355.00	59.0 PK	74.0	-15.0	1.38 H	360	0.13	58.87
8	#17355.00	47.9 AV	54.0	-6.1	1.38 H	360	-10.97	58.87

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	#5725.00	69.2 PK	78.2	-9.0	1.07 V	280	24.84	44.36
2	*5785.00	107.4 PK			1.02 V	270	62.97	44.43
3	*5785.00	98.2 AV			1.02 V	270	53.77	44.43
4	#5850.00	59.4 PK	78.2	-18.8	1.00 V	293	14.86	44.54
5	11570.00	53.6 PK	74.0	-20.4	1.10 V	203	2.85	50.75
6	11570.00	42.6 AV	54.0	-11.4	1.10 V	203	-8.15	50.75
7	#17355.00	62.8 PK	74.0	-11.2	1.28 V	119	3.93	58.87
8	#17355.00	51.7 AV	54.0	-2.3	1.28 V	119	-7.17	58.87

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5825.00	109.1 PK			1.63 H	113	64.60	44.50
2	*5825.00	100.3 AV			1.63 H	113	55.80	44.50
3	#5850.00	71.9 PK	78.2	-6.3	1.63 H	113	27.36	44.54
4	#5860.00	63.3 PK	74.0	-10.7	1.63 H	113	18.74	44.56
5	#5860.00	48.8 AV	54.0	-5.2	1.63 H	113	4.24	44.56
6	11650.00	54.1 PK	74.0	-19.9	1.01 H	171	3.27	50.83
7	11650.00	41.2 AV	54.0	-12.8	1.01 H	171	-9.63	50.83
8	#17475.00	59.3 PK	74.0	-14.7	1.37 H	360	-0.10	59.40
9	#17475.00	48.0 AV	54.0	-6.0	1.37 H	360	-11.40	59.40

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	*5825.00	105.3 PK			1.02 V	277	60.80	44.50
2	*5825.00	97.5 AV			1.02 V	277	53.00	44.50
3	#5850.00	69.1 PK	78.2	-9.1	1.02 V	279	24.56	44.54
4	#5860.00	59.3 PK	74.0	-14.7	1.04 V	308	14.74	44.56
5	#5860.00	42.6 AV	54.0	-11.4	1.04 V	308	-1.96	44.56
6	11650.00	53.4 PK	74.0	-20.6	1.06 V	209	2.57	50.83
7	11650.00	42.1 AV	54.0	-11.9	1.06 V	209	-8.73	50.83
8	#17475.00	62.8 PK	74.0	-11.2	1.26 V	113	3.40	59.40
9	#17475.00	51.8 AV	54.0	-2.2	1.26 V	113	-7.60	59.40

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) – 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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5093.60	51.8 PK	74.0	-22.2	1.02 H	168	8.32	43.48
2	5093.60	40.6 AV	54.0	-13.4	1.02 H	168	-2.88	43.48
3	*5180.00	105.8 PK			1.02 H	168	62.33	43.47
4	*5180.00	95.5 AV			1.02 H	168	52.03	43.47
5	#10360.00	56.2 PK	74.0	-17.8	1.00 H	221	6.06	50.14
6	#10360.00	42.0 AV	54.0	-12.0	1.00 H	221	-8.14	50.14
7	15540.00	61.3 PK	74.0	-12.7	1.00 H	285	6.04	55.26
8	15540.00	48.4 AV	54.0	-5.6	1.00 H	285	-6.86	55.26

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	5093.60	53.4 PK	74.0	-20.6	1.46 V	87	9.92	43.48
2	5093.60	41.8 AV	54.0	-12.2	1.46 V	87	-1.68	43.48
3	*5180.00	108.4 PK			1.15 V	85	64.93	43.47
4	*5180.00	98.3 AV			1.15 V	85	54.83	43.47
5	#10360.00	56.5 PK	74.0	-17.5	1.00 V	235	6.36	50.14
6	#10360.00	42.0 AV	54.0	-12.0	1.00 V	235	-8.14	50.14
7	15540.00	62.1 PK	74.0	-11.9	1.00 V	148	6.84	55.26
8	15540.00	48.5 AV	54.0	-5.5	1.00 V	148	-6.76	55.26

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5120.30	51.2 PK	74.0	-22.8	1.00 H	179	7.70	43.50
2	5120.30	40.2 AV	54.0	-13.8	1.00 H	179	-3.30	43.50
3	*5200.00	105.1 PK			1.00 H	179	61.64	43.46
4	*5200.00	95.1 AV			1.00 H	179	51.64	43.46
5	#10400.00	55.7 PK	74.0	-18.3	1.02 H	236	5.58	50.12
6	#10400.00	41.5 AV	54.0	-12.5	1.02 H	236	-8.62	50.12
7	15600.00	61.1 PK	74.0	-12.9	1.04 H	296	5.68	55.42
8	15600.00	48.1 AV	54.0	-5.9	1.04 H	296	-7.32	55.42

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	5120.30	53.2 PK	74.0	-20.8	1.42 V	87	9.70	43.50
2	5120.30	41.6 AV	54.0	-12.4	1.42 V	87	-1.90	43.50
3	*5200.00	109.0 PK			1.14 V	85	65.54	43.46
4	*5200.00	97.5 AV			1.14 V	85	54.04	43.46
5	#10400.00	56.1 PK	74.0	-17.9	1.00 V	228	5.98	50.12
6	#10400.00	41.6 AV	54.0	-12.4	1.00 V	228	-8.52	50.12
7	15600.00	62.3 PK	74.0	-11.7	1.06 V	144	6.88	55.42
8	15600.00	48.4 AV	54.0	-5.6	1.06 V	144	-7.02	55.42

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.
6. " # ": The radiated frequency is out of the restricted band.



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CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5240.00	105.1 PK			1.00 H	161	61.55	43.55
2	*5240.00	95.1 AV			1.00 H	161	51.55	43.55
3	#10480.00	56.0 PK	74.0	-18.0	1.00 H	219	5.73	50.27
4	#10480.00	41.8 AV	54.0	-12.2	1.00 H	219	-8.47	50.27
5	15720.00	61.5 PK	74.0	-12.5	1.01 H	300	6.13	55.37
6	15720.00	48.8 AV	54.0	-5.2	1.01 H	300	-6.57	55.37

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	*5240.00	108.6 PK			1.12 V	86	65.05	43.55
2	*5240.00	97.3 AV			1.12 V	86	53.75	43.55
3	#10480.00	55.6 PK	74.0	-18.4	1.00 V	242	5.33	50.27
4	#10480.00	41.3 AV	54.0	-12.7	1.00 V	242	-8.97	50.27
5	15720.00	61.7 PK	74.0	-12.3	1.04 V	129	6.33	55.37
6	15720.00	48.0 AV	54.0	-6.0	1.04 V	129	-7.37	55.37

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) – 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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5260.00	105.7 PK			1.00 H	164	62.12	43.58
2	*5260.00	95.4 AV			1.00 H	164	51.82	43.58
3	#10520.00	56.0 PK	74.0	-18.0	1.02 H	212	5.71	50.29
4	#10520.00	41.8 AV	54.0	-12.2	1.02 H	212	-8.49	50.29
5	15780.00	61.5 PK	74.0	-12.5	1.00 H	277	6.20	55.30
6	15780.00	48.4 AV	54.0	-5.6	1.00 H	277	-6.90	55.30
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	*5260.00	108.5 PK			1.12 V	87	64.92	43.58
2	*5260.00	98.2 AV			1.12 V	87	54.62	43.58
3	#10520.00	56.1 PK	74.0	-17.9	1.00 V	222	5.81	50.29
4	#10520.00	41.8 AV	54.0	-12.2	1.00 V	222	-8.49	50.29
5	15780.00	62.6 PK	74.0	-11.4	1.09 V	146	7.30	55.30
6	15780.00	48.7 AV	54.0	-5.3	1.09 V	146	-6.60	55.30

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.
6. " # ": The radiated frequency is out of the restricted band.



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CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5300.00	106.4 PK			1.06 H	180	62.73	43.67
2	*5300.00	96.0 AV			1.06 H	180	52.33	43.67
3	10600.00	56.3 PK	74.0	-17.7	1.00 H	235	6.05	50.25
4	10600.00	42.3 AV	54.0	-11.7	1.00 H	235	-7.95	50.25
5	15900.00	61.3 PK	74.0	-12.7	1.05 H	287	5.88	55.42
6	15900.00	48.4 AV	54.0	-5.6	1.05 H	287	-7.02	55.42

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	*5300.00	108.7 PK			1.13 V	87	65.03	43.67
2	*5300.00	97.4 AV			1.13 V	87	53.73	43.67
3	10600.00	55.9 PK	74.0	-18.1	1.00 V	240	5.65	50.25
4	10600.00	41.6 AV	54.0	-12.4	1.00 V	240	-8.65	50.25
5	15900.00	62.5 PK	74.0	-11.5	1.04 V	139	7.08	55.42
6	15900.00	48.6 AV	54.0	-5.4	1.04 V	139	-6.82	55.42

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 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5320.00	105.9 PK			1.08 H	173	62.20	43.70
2	*5320.00	95.7 AV			1.08 H	173	52.00	43.70
3	5350.00	50.8 PK	74.0	-23.2	1.08 H	173	7.03	43.77
4	5350.00	40.0 AV	54.0	-14.0	1.08 H	173	-3.77	43.77
5	10640.00	55.9 PK	74.0	-18.1	1.06 H	206	5.61	50.29
6	10640.00	41.7 AV	54.0	-12.3	1.06 H	206	-8.59	50.29
7	15960.00	61.7 PK	74.0	-12.3	1.03 H	277	6.20	55.50
8	15960.00	48.6 AV	54.0	-5.4	1.03 H	277	-6.90	55.50
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	*5320.00	105.9 PK			1.12 V	93	62.20	43.70
2	*5320.00	96.2 AV			1.12 V	93	52.50	43.70
3	5350.00	57.3 PK	74.0	-16.7	1.12 V	93	13.53	43.77
4	5350.00	43.0 AV	54.0	-11.0	1.12 V	93	-0.77	43.77
5	10640.00	56.1 PK	74.0	-17.9	1.01 V	222	5.81	50.29
6	10640.00	41.3 AV	54.0	-12.7	1.01 V	222	-8.99	50.29
7	15960.00	62.0 PK	74.0	-12.0	1.03 V	148	6.50	55.50
8	15960.00	48.4 AV	54.0	-5.6	1.03 V	148	-7.10	55.50

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 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5460.00	50.7 PK	74.0	-23.3	1.12 H	185	6.72	43.98
2	5460.00	39.9 AV	54.0	-14.1	1.12 H	185	-4.08	43.98
3	#5470.00	50.3 PK	74.0	-23.7	1.12 H	185	6.30	44.00
4	#5470.00	38.2 AV	54.0	-15.8	1.12 H	185	-5.80	44.00
5	*5500.00	105.3 PK			1.12 H	185	61.23	44.07
6	*5500.00	95.4 AV			1.12 H	185	51.33	44.07
7	11000.00	56.3 PK	74.0	-17.7	1.03 H	190	5.66	50.64
8	11000.00	42.1 AV	54.0	-11.9	1.03 H	190	-8.54	50.64
9	#16500.00	62.3 PK	74.0	-11.7	1.03 H	273	5.43	56.87
10	#16500.00	49.1 AV	54.0	-4.9	1.03 H	273	-7.77	56.87

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	5460.00	51.4 PK	74.0	-22.6	1.06 V	88	7.42	43.98
2	5460.00	40.1 AV	54.0	-13.9	1.06 V	88	-3.88	43.98
3	#5470.00	52.1 PK	74.0	-21.9	1.06 V	88	8.10	44.00
4	#5470.00	40.2 AV	54.0	-13.8	1.06 V	88	-3.80	44.00
5	*5500.00	105.5 PK			1.06 V	88	61.43	44.07
6	*5500.00	95.7 AV			1.06 V	88	51.63	44.07
7	11000.00	56.0 PK	74.0	-18.0	1.00 V	239	5.36	50.64
8	11000.00	41.6 AV	54.0	-12.4	1.00 V	239	-9.04	50.64
9	#16500.00	62.5 PK	74.0	-11.5	1.06 V	145	5.63	56.87
10	#16500.00	48.8 AV	54.0	-5.2	1.06 V	145	-8.07	56.87

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.
6. " # ": The radiated frequency is out of the restricted band.



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CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5580.00	105.3 PK			1.12 H	191	97.13	8.17
2	*5580.00	95.1 AV			1.12 H	191	86.93	8.17
3	11160.00	56.9 PK	74.0	-17.1	1.06 H	191	42.67	14.23
4	11160.00	42.8 AV	54.0	-11.2	1.06 H	191	28.57	14.23
5	#16740.00	62.5 PK	74.0	-11.5	1.01 H	267	41.39	21.11
6	#16740.00	49.3 AV	54.0	-4.7	1.01 H	267	28.19	21.11

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	*5580.00	106.7 PK			1.01 V	92	98.53	8.17
2	*5580.00	96.4 AV			1.01 V	92	88.23	8.17
3	11160.00	56.1 PK	74.0	-17.9	1.00 V	228	41.87	14.23
4	11160.00	41.8 AV	54.0	-12.2	1.00 V	228	27.57	14.23
5	#16740.00	62.4 PK	74.0	-11.6	1.00 V	115	41.29	21.11
6	#16740.00	48.1 AV	54.0	-5.9	1.00 V	115	26.99	21.11

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.
6. " # ": The radiated frequency is out of the restricted band.



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CHANNEL	TX Channel 132	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5660.00	105.4 PK			1.14 H	183	63.98	41.42
2	*5660.00	95.3 AV			1.14 H	183	53.88	41.42
3	11320.00	56.3 PK	74.0	-17.7	1.03 H	176	9.21	47.09
4	11320.00	41.8 AV	54.0	-12.2	1.03 H	176	-5.29	47.09
5	#16980.00	62.6 PK	74.0	-11.4	1.03 H	263	8.42	54.18
6	#16980.00	49.5 AV	54.0	-4.5	1.03 H	263	-4.68	54.18

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	*5660.00	107.3 PK			1.17 V	83	65.88	41.42
2	*5660.00	96.5 AV			1.17 V	83	55.08	41.42
3	11320.00	55.8 PK	74.0	-18.2	1.00 V	226	8.71	47.09
4	11320.00	41.6 AV	54.0	-12.4	1.00 V	226	-5.49	47.09
5	#16980.00	62.3 PK	74.0	-11.7	1.08 V	142	8.12	54.18
6	#16980.00	48.3 AV	54.0	-5.7	1.08 V	142	-5.88	54.18

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.
6. " # ": The radiated frequency is out of the restricted band.



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CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5700.00	105.9 PK			1.14 H	200	64.45	41.45
2	*5700.00	94.3 AV			1.14 H	200	52.85	41.45
3	#5725.00	55.4 PK	74.0	-18.6	1.14 H	200	13.92	41.48
4	#5725.00	41.3 AV	54.0	-12.7	1.14 H	200	-0.18	41.48
5	11400.00	56.5 PK	74.0	-17.5	1.06 H	203	9.41	47.09
6	11400.00	42.5 AV	54.0	-11.5	1.06 H	203	-4.59	47.09
7	#17100.00	62.4 PK	74.0	-11.6	1.04 H	279	8.04	54.36
8	#17100.00	49.5 AV	54.0	-4.5	1.04 H	279	-4.86	54.36

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	*5700.00	106.6 PK			1.18 V	95	65.15	41.45
2	*5700.00	95.5 AV			1.18 V	95	54.05	41.45
3	#5725.00	56.5 PK	74.0	-17.5	1.18 V	95	15.02	41.48
4	#5725.00	42.2 AV	54.0	-11.8	1.18 V	95	0.72	41.48
5	11400.00	56.5 PK	74.0	-17.5	1.00 V	213	9.41	47.09
6	11400.00	41.9 AV	54.0	-12.1	1.00 V	213	-5.19	47.09
7	#17100.00	62.7 PK	74.0	-11.3	1.02 V	156	8.34	54.36
8	#17100.00	48.5 AV	54.0	-5.5	1.02 V	156	-5.86	54.36

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.
6. " # ": The radiated frequency is out of the restricted band.



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CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	#5715.00	57.2 PK	74.0	-16.8	1.64 H	109	12.85	44.35
2	#5715.00	42.3 AV	54.0	-11.7	1.64 H	109	-2.05	44.35
3	#5725.00	71.4 PK	78.2	-6.8	1.64 H	109	27.04	44.36
4	*5745.00	106.7 PK			1.64 H	109	62.31	44.39
5	*5745.00	97.0 AV			1.64 H	109	52.61	44.39
6	11490.00	53.4 PK	74.0	-20.6	1.00 H	167	2.69	50.71
7	11490.00	40.7 AV	54.0	-13.3	1.00 H	167	-10.01	50.71
8	#17235.00	59.1 PK	74.0	-14.9	1.39 H	360	0.27	58.83
9	#17235.00	47.9 AV	54.0	-6.1	1.39 H	360	-10.93	58.83

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	#5715.00	54.1 PK	74.0	-19.9	1.01 V	278	9.75	44.35
2	#5715.00	40.6 AV	54.0	-13.4	1.01 V	278	-3.75	44.35
3	#5725.00	62.7 PK	78.2	-15.5	1.01 V	278	18.34	44.36
4	*5745.00	103.4 PK			1.01 V	278	59.01	44.39
5	*5745.00	93.6 AV			1.01 V	278	49.21	44.39
6	11490.00	52.8 PK	74.0	-21.2	1.03 V	197	2.09	50.71
7	11490.00	41.7 AV	54.0	-12.3	1.03 V	197	-9.01	50.71
8	#17235.00	62.8 PK	74.0	-11.2	1.27 V	98	3.97	58.83
9	#17235.00	51.9 AV	54.0	-2.1	1.27 V	98	-6.93	58.83

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5785.00	106.4 PK			1.58 H	120	61.97	44.43
2	*5785.00	96.9 AV			1.58 H	120	52.47	44.43
3	11570.00	53.6 PK	74.0	-20.4	1.00 H	151	2.85	50.75
4	11570.00	40.7 AV	54.0	-13.3	1.00 H	151	-10.05	50.75
5	#17355.00	58.7 PK	74.0	-15.3	1.36 H	360	-0.17	58.87
6	#17355.00	47.5 AV	54.0	-6.5	1.36 H	360	-11.37	58.87

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	*5785.00	102.7 PK			1.00 V	285	58.27	44.43
2	*5785.00	93.1 AV			1.00 V	285	48.67	44.43
3	11570.00	53.0 PK	74.0	-21.0	1.00 V	186	2.25	50.75
4	11570.00	42.0 AV	54.0	-12.0	1.00 V	186	-8.75	50.75
5	#17355.00	62.8 PK	74.0	-11.2	1.30 V	96	3.93	58.87
6	#17355.00	52.1 AV	54.0	-1.9	1.30 V	96	-6.77	58.87

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5825.00	107.1 PK			1.61 H	116	62.60	44.50
2	*5825.00	97.6 AV			1.61 H	116	53.10	44.50
3	#5850.00	61.2 PK	78.2	-17.0	1.61 H	116	16.66	44.54
4	#5860.00	63.2 PK	74.0	-10.8	1.67 H	125	18.64	44.56
5	#5860.00	48.8 AV	54.0	-5.2	1.67 H	125	4.24	44.56
6	11650.00	54.2 PK	74.0	-19.8	1.00 H	143	3.37	50.83
7	11650.00	41.2 AV	54.0	-12.8	1.00 H	143	-9.63	50.83
8	#17475.00	59.0 PK	74.0	-15.0	1.42 H	360	-0.40	59.40
9	#17475.00	47.8 AV	54.0	-6.2	1.42 H	360	-11.60	59.40

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	*5825.00	104.3 PK			1.03 V	293	59.80	44.50
2	*5825.00	94.2 AV			1.03 V	293	49.70	44.50
3	#5850.00	63.1 PK	78.2	-15.1	1.00 V	293	18.56	44.54
4	#5860.00	59.2 PK	74.0	-14.8	1.03 V	301	14.64	44.56
5	#5860.00	42.7 AV	54.0	-11.3	1.03 V	301	-1.86	44.56
6	11650.00	52.4 PK	74.0	-21.6	1.00 V	202	1.57	50.83
7	11650.00	41.6 AV	54.0	-12.4	1.00 V	202	-9.23	50.83
8	#17475.00	63.0 PK	74.0	-11.0	1.31 V	111	3.60	59.40
9	#17475.00	52.0 AV	54.0	-2.0	1.31 V	111	-7.40	59.40

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) – 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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5150.00	60.4 PK	74.0	-13.6	1.13 H	212	19.84	40.56
2	5150.00	45.3 AV	54.0	-8.7	1.13 H	212	4.74	40.56
3	*5190.00	103.2 PK			1.13 H	212	62.54	40.66
4	*5190.00	93.1 AV			1.13 H	212	52.44	40.66
5	#10380.00	56.5 PK	74.0	-17.5	1.10 H	206	9.77	46.73
6	#10380.00	42.7 AV	54.0	-11.3	1.10 H	206	-4.03	46.73
7	15570.00	61.8 PK	74.0	-12.2	1.00 H	264	10.56	51.24
8	15570.00	49.1 AV	54.0	-4.9	1.00 H	264	-2.14	51.24
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	5150.00	61.3 PK	74.0	-12.7	1.15 V	92	20.74	40.56
2	5150.00	46.2 AV	54.0	-7.8	1.15 V	92	5.64	40.56
3	*5190.00	104.5 PK			1.15 V	92	63.84	40.66
4	*5190.00	93.9 AV			1.15 V	92	53.24	40.66
5	#10380.00	56.9 PK	74.0	-17.1	1.00 V	213	10.17	46.73
6	#10380.00	42.3 AV	54.0	-11.7	1.00 V	213	-4.43	46.73
7	15570.00	62.7 PK	74.0	-11.3	1.02 V	160	11.46	51.24
8	15570.00	48.5 AV	54.0	-5.5	1.02 V	160	-2.74	51.24

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5230.00	104.3 PK			1.15 H	215	63.56	40.74
2	*5230.00	94.1 AV			1.15 H	215	53.36	40.74
3	#10460.00	56.9 PK	74.0	-17.1	1.08 H	202	10.13	46.77
4	#10460.00	42.9 AV	54.0	-11.1	1.08 H	202	-3.87	46.77
5	15690.00	61.6 PK	74.0	-12.4	1.00 H	254	10.30	51.30
6	15690.00	48.6 AV	54.0	-5.4	1.00 H	254	-2.70	51.30
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	*5230.00	105.5 PK			1.13 V	93	64.76	40.74
2	*5230.00	95.0 AV			1.13 V	93	54.26	40.74
3	#10460.00	56.7 PK	74.0	-17.3	1.00 V	226	9.93	46.77
4	#10460.00	41.9 AV	54.0	-12.1	1.00 V	226	-4.87	46.77
5	15690.00	63.3 PK	74.0	-10.7	1.08 V	162	12.00	51.30
6	15690.00	48.8 AV	54.0	-5.2	1.08 V	162	-2.50	51.30

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5270.00	103.6 PK			1.10 H	212	62.80	40.80
2	*5270.00	93.2 AV			1.10 H	212	52.40	40.80
3	#10540.00	56.8 PK	74.0	-17.2	1.06 H	198	9.88	46.92
4	#10540.00	42.6 AV	54.0	-11.4	1.06 H	198	-4.32	46.92
5	15810.00	62.3 PK	74.0	-11.7	1.00 H	252	10.81	51.49
6	15810.00	49.0 AV	54.0	-5.0	1.00 H	252	-2.49	51.49

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	*5270.00	104.5 PK			1.11 V	93	63.70	40.80
2	*5270.00	94.0 AV			1.11 V	93	53.20	40.80
3	#10540.00	57.0 PK	74.0	-17.0	1.00 V	197	10.08	46.92
4	#10540.00	42.2 AV	54.0	-11.8	1.00 V	197	-4.72	46.92
5	15810.00	62.4 PK	74.0	-11.6	1.04 V	170	10.91	51.49
6	15810.00	48.3 AV	54.0	-5.7	1.04 V	170	-3.19	51.49

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5310.00	103.5 PK			1.08 H	214	62.63	40.87
2	*5310.00	93.3 AV			1.08 H	214	52.43	40.87
3	5350.00	57.3 PK	74.0	-16.7	1.08 H	214	16.36	40.94
4	5350.00	46.6 AV	54.0	-7.4	1.08 H	214	5.66	40.94
5	10620.00	57.0 PK	74.0	-17.0	1.01 H	193	9.96	47.04
6	10620.00	42.9 AV	54.0	-11.1	1.01 H	193	-4.14	47.04
7	15930.00	62.7 PK	74.0	-11.3	1.00 H	260	11.16	51.54
8	15930.00	49.2 AV	54.0	-4.8	1.00 H	260	-2.34	51.54

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	*5310.00	105.1 PK			1.10 V	91	64.23	40.87
2	*5310.00	94.6 AV			1.10 V	91	53.73	40.87
3	5350.00	58.9 PK	74.0	-15.1	1.10 V	91	17.96	40.94
4	5350.00	47.4 AV	54.0	-6.6	1.10 V	91	6.46	40.94
5	10620.00	56.5 PK	74.0	-17.5	1.00 V	212	9.46	47.04
6	10620.00	41.7 AV	54.0	-12.3	1.00 V	212	-5.34	47.04
7	15930.00	63.1 PK	74.0	-10.9	1.00 V	148	11.56	51.54
8	15930.00	48.8 AV	54.0	-5.2	1.00 V	148	-2.74	51.54

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 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	5460.00	51.3 PK	74.0	-22.7	1.12 H	200	10.18	41.12
2	5460.00	39.2 AV	54.0	-14.8	1.12 H	200	-1.92	41.12
3	#5470.00	53.0 PK	74.0	-21.0	1.12 H	200	11.86	41.14
4	#5470.00	41.3 AV	54.0	-12.7	1.12 H	200	0.16	41.14
5	*5510.00	100.8 PK			1.12 H	200	59.58	41.22
6	*5510.00	90.6 AV			1.12 H	200	49.38	41.22
7	11020.00	56.8 PK	74.0	-17.2	1.04 H	202	9.46	47.34
8	11020.00	42.4 AV	54.0	-11.6	1.04 H	202	-4.94	47.34
9	#16530.00	63.1 PK	74.0	-10.9	1.00 H	270	10.11	52.99
10	#16530.00	49.6 AV	54.0	-4.4	1.00 H	270	-3.39	52.99

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	5460.00	51.8 PK	74.0	-22.2	1.06 V	86	10.68	41.12
2	5460.00	39.9 AV	54.0	-14.1	1.06 V	86	-1.22	41.12
3	#5470.00	54.3 PK	74.0	-19.7	1.06 V	86	13.16	41.14
4	#5470.00	42.7 AV	54.0	-11.3	1.06 V	86	1.56	41.14
5	*5510.00	101.5 PK			1.06 V	86	60.28	41.22
6	*5510.00	91.5 AV			1.06 V	86	50.28	41.22
7	11020.00	56.7 PK	74.0	-17.3	1.00 V	225	9.36	47.34
8	11020.00	42.3 AV	54.0	-11.7	1.00 V	225	-5.04	47.34
9	#16530.00	62.6 PK	74.0	-11.4	1.02 V	162	9.61	52.99
10	#16530.00	48.2 AV	54.0	-5.8	1.02 V	162	-4.79	52.99

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.
6. " # ": The radiated frequency is out of the restricted band.



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CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5550.00	101.6 PK			1.06 H	214	93.49	8.11
2	*5550.00	91.2 AV			1.06 H	214	83.09	8.11
3	11100.00	56.6 PK	74.0	-17.4	1.04 H	195	42.38	14.22
4	11100.00	42.2 AV	54.0	-11.8	1.04 H	195	27.98	14.22
5	#16650.00	62.8 PK	74.0	-11.2	1.00 H	267	41.86	20.94
6	#16650.00	49.6 AV	54.0	-4.4	1.00 H	267	28.66	20.94

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	*5550.00	103.2 PK			1.05 V	89	95.09	8.11
2	*5550.00	93.2 AV			1.05 V	89	85.09	8.11
3	11100.00	56.6 PK	74.0	-17.4	1.00 V	216	42.38	14.22
4	11100.00	42.3 AV	54.0	-11.7	1.00 V	216	28.08	14.22
5	#16650.00	62.6 PK	74.0	-11.4	1.05 V	171	41.66	20.94
6	#16650.00	48.6 AV	54.0	-5.4	1.05 V	171	27.66	20.94

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.
6. " # ": The radiated frequency is out of the restricted band.



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CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5670.00	100.6 PK			1.16 H	200	59.17	41.43
2	*5670.00	90.3 AV			1.16 H	200	48.87	41.43
3	#5725.00	53.4 PK	74.0	-20.6	1.16 H	200	11.92	41.48
4	#5725.00	41.2 AV	54.0	-12.8	1.16 H	200	-0.28	41.48
5	11340.00	57.1 PK	74.0	-16.9	1.00 H	191	10.02	47.08
6	11340.00	42.7 AV	54.0	-11.3	1.00 H	191	-4.38	47.08
7	#17010.00	63.4 PK	74.0	-10.6	1.00 H	256	9.17	54.23
8	#17010.00	49.8 AV	54.0	-4.2	1.00 H	256	-4.43	54.23
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	*5670.00	103.3 PK			1.05 V	99	61.87	41.43
2	*5670.00	91.7 AV			1.05 V	99	50.27	41.43
3	#5725.00	53.7 PK	74.0	-20.3	1.05 V	99	12.22	41.48
4	#5725.00	40.5 AV	54.0	-13.5	1.05 V	99	-0.98	41.48
5	11340.00	56.3 PK	74.0	-17.7	1.00 V	203	9.22	47.08
6	11340.00	41.7 AV	54.0	-12.3	1.00 V	203	-5.38	47.08
7	#17010.00	62.7 PK	74.0	-11.3	1.01 V	160	8.47	54.23
8	#17010.00	48.2 AV	54.0	-5.8	1.01 V	160	-6.03	54.23

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.
6. " # ": The radiated frequency is out of the restricted band.



A D T

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	#5725.00	62.1 PK	78.2	-16.1	1.62 H	118	17.74	44.36
2	*5755.00	102.1 PK			1.62 H	118	57.71	44.39
3	*5755.00	92.6 AV			1.62 H	118	48.21	44.39
4	11510.00	54.3 PK	74.0	-19.7	1.00 H	142	3.57	50.73
5	11510.00	41.4 AV	54.0	-12.6	1.00 H	142	-9.33	50.73
6	#17265.00	58.8 PK	74.0	-15.2	1.40 H	353	0.00	58.80
7	#17265.00	47.4 AV	54.0	-6.6	1.40 H	353	-11.40	58.80

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	#5725.00	63.0 PK	78.2	-15.2	1.00 V	284	18.64	44.36
2	*5755.00	103.6 PK			1.06 V	291	59.21	44.39
3	*5755.00	93.9 AV			1.06 V	291	49.51	44.39
4	11510.00	52.4 PK	74.0	-21.6	1.05 V	189	1.67	50.73
5	11510.00	41.2 AV	54.0	-12.8	1.05 V	189	-9.53	50.73
6	#17265.00	62.8 PK	74.0	-11.2	1.26 V	111	4.00	58.80
7	#17265.00	52.1 AV	54.0	-1.9	1.26 V	111	-6.70	58.80

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.
6. " # ": The radiated frequency is out of the restricted band.



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CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		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	*5795.00	102.8 PK			1.57 H	123	58.35	44.45
2	*5795.00	93.1 AV			1.57 H	123	48.65	44.45
3	11590.00	53.9 PK	74.0	-20.1	1.00 H	127	3.15	50.75
4	11590.00	41.1 AV	54.0	-12.9	1.00 H	127	-9.65	50.75
5	#17385.00	58.8 PK	74.0	-15.2	1.36 H	360	-0.14	58.94
6	#17385.00	47.4 AV	54.0	-6.6	1.36 H	360	-11.54	58.94

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	*5795.00	103.1 PK			1.09 V	301	58.65	44.45
2	*5795.00	93.7 AV			1.09 V	301	49.25	44.45
3	11590.00	52.6 PK	74.0	-21.4	1.02 V	177	1.85	50.75
4	11590.00	41.5 AV	54.0	-12.5	1.02 V	177	-9.25	50.75
5	#17385.00	62.4 PK	74.0	-11.6	1.25 V	106	3.46	58.94
6	#17385.00	51.7 AV	54.0	-2.3	1.25 V	106	-7.24	58.94

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.
6. " # ": The radiated frequency is out of the restricted band.

4.3 TRANSMIT POWER MEASUREMENT

4.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	---		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	---		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	---		1 Watt (30 dBm)

Note: Where B is the 26dB emission bandwidth in MHz.

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT $\leq$ 4;

Array Gain = 0 dB (i.e., no array gain) for channel widths $\geq$ 40 MHz for any NANT;

Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less for 20-MHz channel widths with NANT $\geq$ 5.

For power measurements on all other devices: Array Gain = 10 log(NANT/NSS) dB.

4.3.2 TEST INSTRUMENTS

FOR POWER OUTPUT MEASUREMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Power meter Anritsu	ML2495A	1014008	Apr. 30, 2014	Apr. 29, 2015
Power sensor Anritsu	MA2411B	0917122	Apr. 30, 2014	Apr. 29, 2015

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 : June 20, 2014

FOR 26dB OCCUPIED BANDWIDTH

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
SPECTRUM ANALYZER R&S	FSV 40	100964	July 15, 2013	July 14, 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 : June 20, 2014

4.3.3 TEST PROCEDURE

FOR POWER OUTPUT MEASUREMENT

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

FOR 26dB OCCUPIED BANDWIDTH

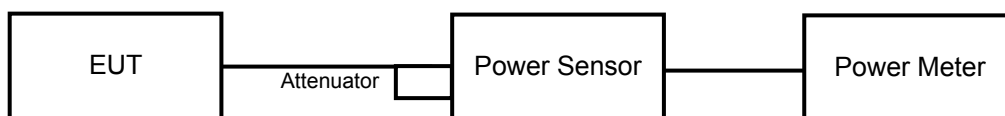
1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP

FOR POWER OUTPUT MEASUREMENT



FOR 26dB OCCUPIED BANDWIDTH



4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

4.3.7 TEST RESULTS

802.11a

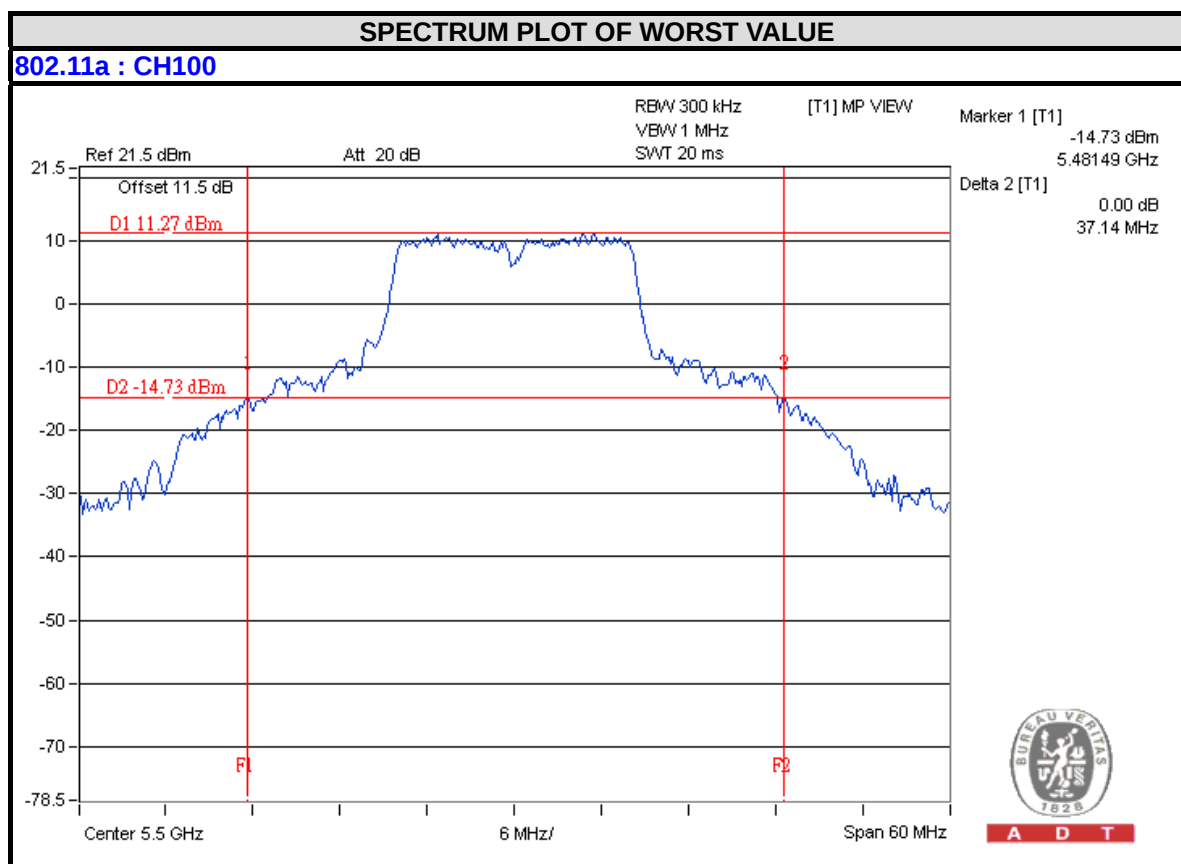
CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	48.195	16.83	24	PASS
40	5200	48.195	16.83	24	PASS
48	5240	49.091	16.91	24	PASS
52	5260	129.122	21.11	24	PASS
60	5300	135.207	21.31	24	PASS
64	5320	138.357	21.41	24	PASS
100	5500	90.782	19.58	24	PASS
116	5580	103.514	20.15	24	PASS
132	5660	105.439	20.23	24	PASS
140	5700	114.025	20.57	24	PASS
149	5745	90.157	19.55	30	PASS
157	5785	112.46	20.51	30	PASS
165	5825	110.408	20.43	30	PASS

26dB OCCUPIED BANDWIDTH:

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)
36	5180	34.72
40	5200	34.60
48	5240	32.96
52	5260	38.44
60	5300	38.96
64	5320	40.13
100	5500	37.14
116	5580	37.64
132	5660	38.38
140	5700	38.34

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	38.44	26.84 > 24
60	5300	38.96	26.9 > 24
64	5320	40.13	27.03 > 24
100	5500	37.14	26.69 > 24
116	5580	37.64	26.75 > 24
132	5660	38.38	26.84 > 24
140	5700	38.34	26.83 > 24



802.11n (HT20)

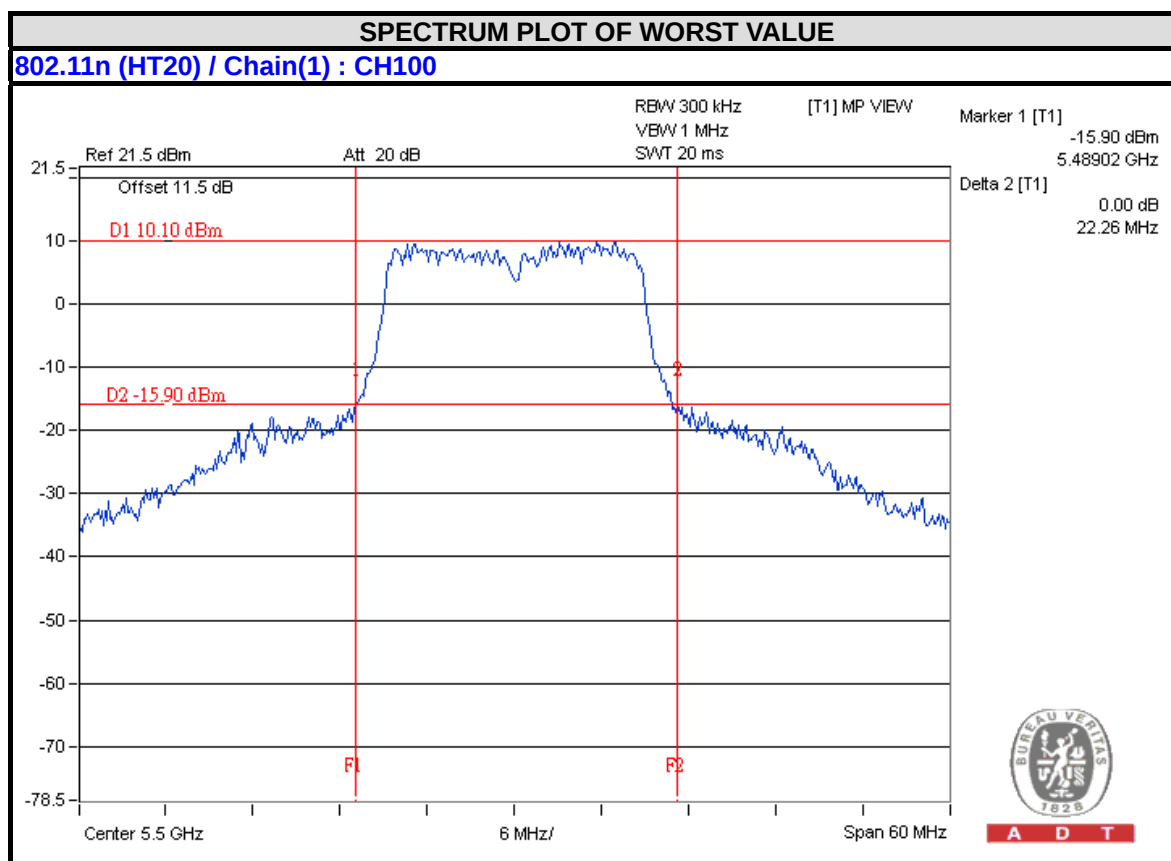
CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
36	5180	13.52	13.60	45.4	16.57	24	PASS
40	5200	13.62	13.65	46.188	16.65	24	PASS
48	5240	13.62	13.71	46.51	16.68	24	PASS
52	5260	19.12	19.42	169.156	22.28	24	PASS
60	5300	19.21	20.62	198.713	22.98	24	PASS
64	5320	19.37	20.27	192.911	22.85	24	PASS
100	5500	17.54	17.61	114.431	20.59	24	PASS
116	5580	18.29	18.15	132.766	21.23	24	PASS
132	5660	17.65	18.21	124.432	20.95	24	PASS
140	5700	17.71	18.32	126.94	21.04	24	PASS
149	5745	18.49	18.54	142.082	21.53	30	PASS
157	5785	18.04	18.11	128.394	21.09	30	PASS
165	5825	17.69	17.70	117.633	20.71	30	PASS

26dB OCCUPIED BANDWIDTH:

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	
		CHAIN 0	CHAIN 1
36	5180	23.14	21.35
40	5200	25.58	21.53
48	5240	22.67	21.49
52	5260	37.08	40.08
60	5300	37.17	41.01
64	5320	36.49	41.06
100	5500	22.52	22.26
116	5580	25.98	32.08
132	5660	26.98	38.68
140	5700	28.28	41.05

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	37.08	26.69 > 24
60	5300	37.17	26.7 > 24
64	5320	36.49	26.62 > 24
100	5500	22.26	24.47 > 24
116	5580	25.98	25.14 > 24
132	5660	26.98	25.31 > 24
140	5700	28.28	25.51 > 24



802.11n (HT40)

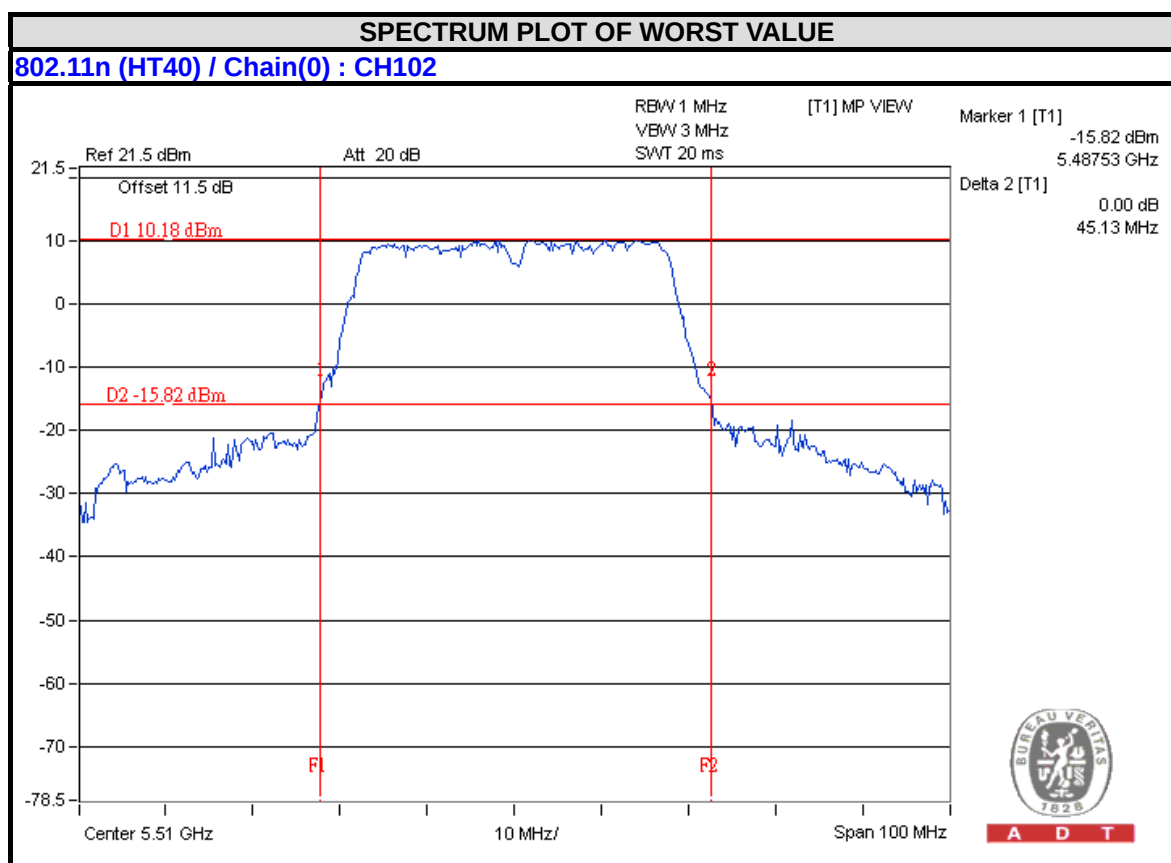
CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
38	5190	13.67	13.81	47.325	16.75	24	PASS
46	5230	13.72	13.75	47.264	16.75	24	PASS
54	5270	19.17	18.72	157.077	21.96	24	PASS
62	5310	19.02	19.51	169.13	22.28	24	PASS
102	5510	16.37	17.64	101.427	20.06	24	PASS
110	5550	18.06	17.75	123.539	20.92	24	PASS
134	5670	17.13	16.99	101.645	20.07	24	PASS
151	5755	17.71	17.84	119.834	20.79	30	PASS
159	5795	17.60	17.56	114.56	20.59	30	PASS

26dB OCCUPIED BANDWIDTH:

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	
		CHAIN 0	CHAIN 1
38	5190	52.18	44.97
46	5230	45.00	45.13
54	5270	76.84	61.31
62	5310	75.99	65.90
102	5510	45.13	45.35
110	5550	45.17	45.50
134	5670	45.67	58.87

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	61.31	28.87 > 24
62	5310	65.90	29.18 > 24
102	5510	45.13	27.54 > 24
110	5550	45.17	27.54 > 24
134	5670	45.67	27.59 > 24





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4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Mobile and Portable client device	11dBm/ MHz
U-NII-2A	---		11dBm/ MHz
U-NII-2C	---		11dBm/ MHz
U-NII-3	---		30dBm/ 500kHz

4.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
SPECTRUM ANALYZER R&S	FSV 40	100964	July 15, 2013	July 14, 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 : June 20, 2014

4.4.3 TEST PROCEDURES

For U-NII-1, U-NII-2A & U-NII-2C:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to "free run".
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value and for duty cycle of test signal is $< 98\%$ add $10 \log (1/\text{duty cycle})$

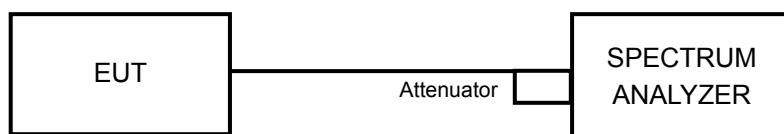
For U-NII-3:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300\text{kHz})$
5. Sweep time = auto, trigger set to "free run".
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value and for duty cycle of test signal is $< 98\%$ add $10 \log (1/\text{duty cycle})$

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as 4.3.6

4.4.7 TEST RESULTS

For U-NII-1, U-NII-2A & U-NII-2C:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	PSD (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
36	5180	5.29	11	PASS
40	5200	5.22	11	PASS
48	5240	4.76	11	PASS
56	5280	7.47	11	PASS
60	5300	8.03	11	PASS
64	5320	8.20	11	PASS
100	5500	6.43	11	PASS
116	5580	6.70	11	PASS
132	5660	6.49	11	PASS
140	5700	6.82	11	PASS

802.11n (HT20)

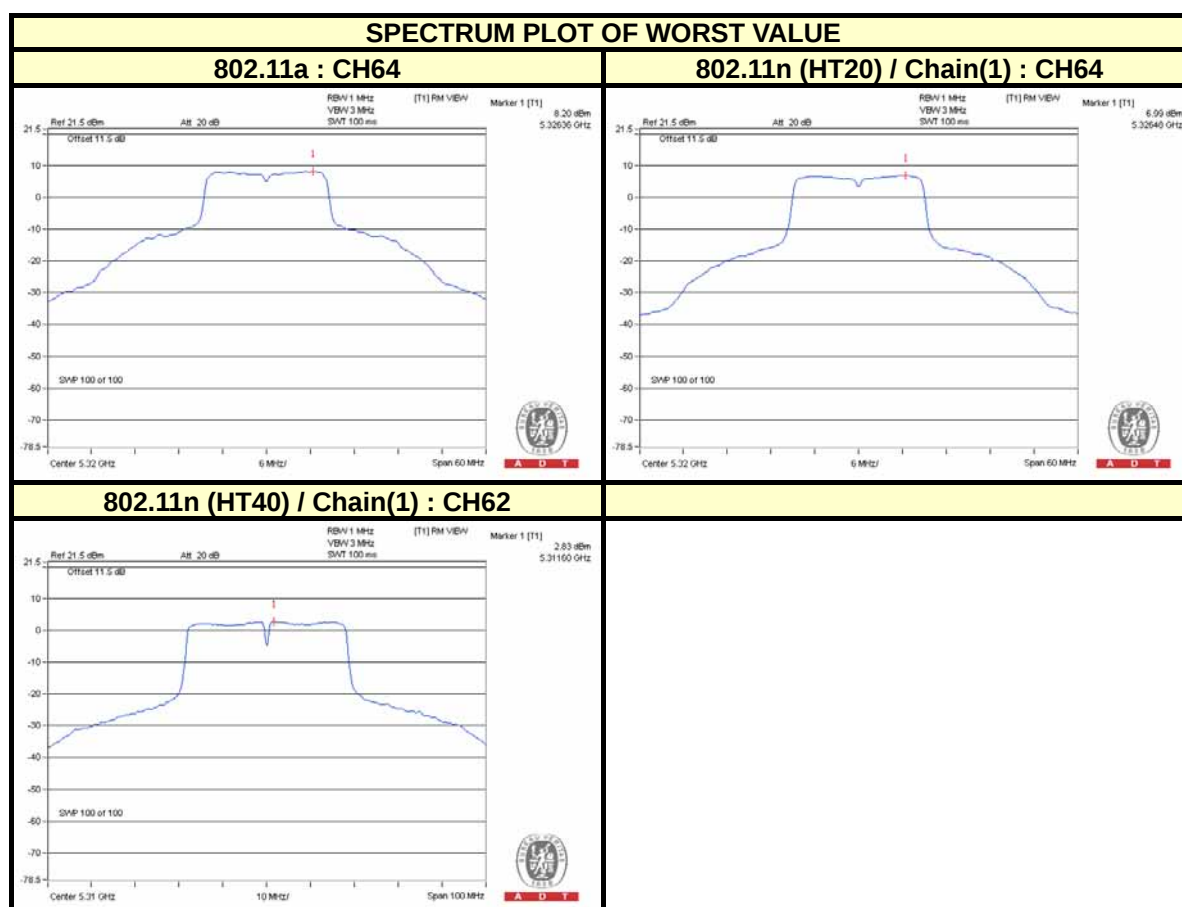
CHANNEL	CHANNEL FREQUENCY (MHz)	PSD (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS/FAIL
		CHAIN 0	CHAIN 1			
36	5180	2.73	2.91	5.83	11	PASS
40	5200	2.78	2.94	5.87	11	PASS
48	5240	2.85	2.95	5.91	11	PASS
52	5260	5.07	6.61	8.92	11	PASS
60	5300	5.36	6.76	9.13	11	PASS
64	5320	5.51	6.93	9.29	11	PASS
100	5500	3.17	4.38	6.83	11	PASS
116	5580	3.75	4.55	7.18	11	PASS
132	5660	3.82	4.45	7.16	11	PASS
140	5700	4.00	5.16	7.63	11	PASS

NOTE: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

802.11n (HT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	PSD (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS/FAIL
		CHAIN 0	CHAIN 1			
38	5190	0.10	0.08	3.10	11	PASS
46	5230	0.26	0.10	3.19	11	PASS
54	5270	1.94	2.77	5.38	11	PASS
62	5310	2.27	2.83	5.57	11	PASS
102	5510	-0.23	0.52	3.17	11	PASS
110	5550	0.24	0.62	3.44	11	PASS
134	5670	0.21	0.69	3.47	11	PASS

NOTE: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.



For U-NII-3:

802.11a

CHANNEL	FREQUENCY (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
149	5745	-1.76	0.46	30	PASS
157	5785	-1.33	0.89	30	PASS
165	5825	-1.22	1.00	30	PASS

802.11n (HT20)

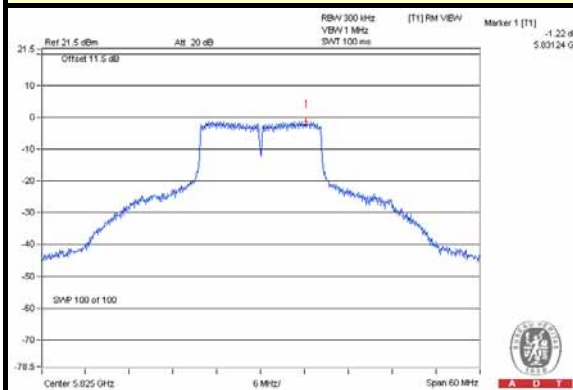
TX CHAIN	CHANNEL	FREQUENCY (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	TOTAL PSD (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
0	149	5745	-3.20	-0.98	3.01	2.03	30	PASS
	157	5785	-3.99	-1.77	3.01	1.24	30	PASS
	165	5825	-4.22	-2.00	3.01	1.01	30	PASS
1	149	5745	-4.04	-1.82	3.01	1.19	30	PASS
	157	5785	-4.28	-2.06	3.01	0.95	30	PASS
	165	5825	-3.88	-1.66	3.01	1.35	30	PASS

802.11n (HT40)

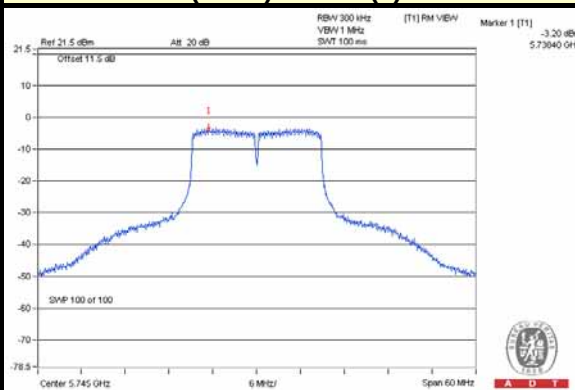
TX CHAIN	CHANNEL	FREQUENCY (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	TOTAL PSD (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
0	151	5755	-7.75	-5.53	3.01	-2.52	30	PASS
	159	5795	-8.23	-6.01	3.01	-3.00	30	PASS
1	151	5755	-8.26	-6.04	3.01	-3.03	30	PASS
	159	5795	-8.16	-5.94	3.01	-2.93	30	PASS

SPECTRUM PLOT OF WORST VALUE

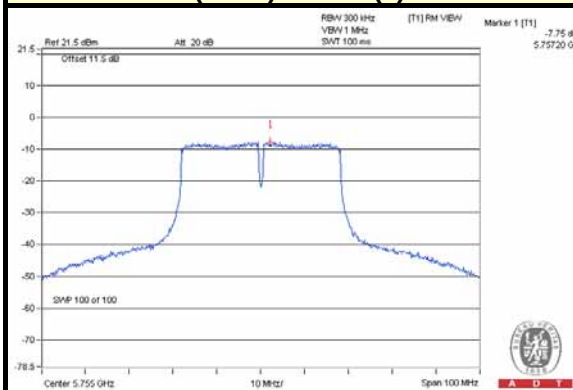
802.11a : CH165



802.11n (HT20) / Chain(0) : CH149



802.11n (HT40) / Chain(0) : CH151





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4.5 FREQUENCY STABILITY

4.5.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency of the carrier signal shall be maintained within band of operation

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
SPECTRUM ANALYZER R&S	FSV 40	100964	July 15, 2013	July 14, 2014
Temperature & Humidity Chamber GIANTFORCE	GTH-150-40-SP -AR	MAA0812-008	Jan. 13, 2014	Jan. 12, 2015

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 : June 20, 2014

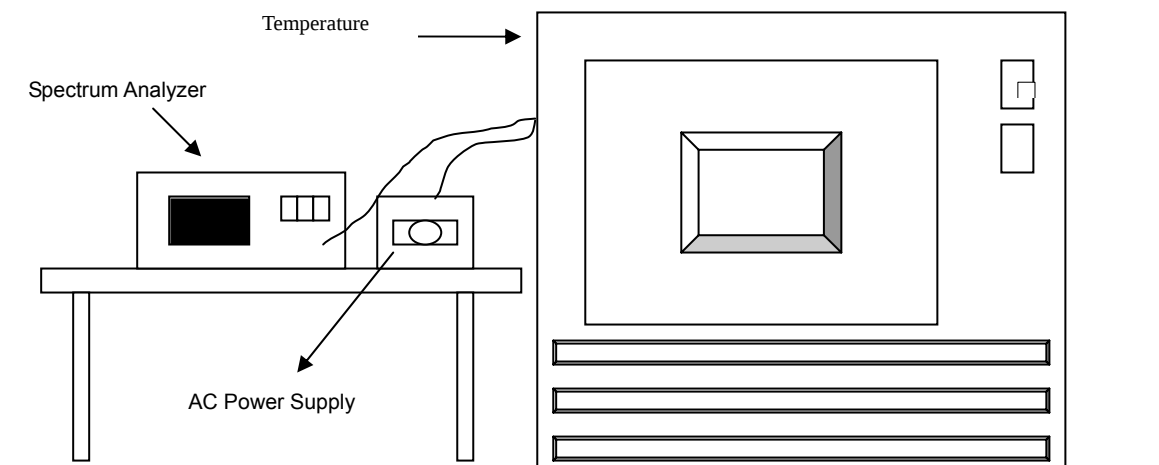
4.5.3 TEST PROCEDURE

1. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Set the EUT transmit at un-modulation mode to test frequency stability.



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4.5.7 TEST RESULTS

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	%	(MHz)	%	(MHz)	%	(MHz)	%
50	120	5320.0071	0.00013	5320.0068	0.00013	5320.0022	0.00004	5320.004	0.00008
40	120	5319.9748	-0.00047	5319.9761	-0.00045	5319.9769	-0.00043	5319.9756	-0.00046
30	120	5319.9731	-0.00051	5319.9735	-0.00050	5319.9744	-0.00048	5319.9717	-0.00053
20	120	5319.978	-0.00041	5319.9778	-0.00042	5319.9789	-0.00040	5319.9768	-0.00044
10	120	5319.9971	-0.00005	5319.9973	-0.00005	5319.9943	-0.00011	5319.9986	-0.00003
0	120	5319.9739	-0.00049	5319.974	-0.00049	5319.9752	-0.00047	5319.9769	-0.00043
-10	120	5320.0241	0.00045	5320.0204	0.00038	5320.0197	0.00037	5320.0205	0.00039
-20	120	5319.9762	-0.00045	5319.9738	-0.00049	5319.9741	-0.00049	5319.9745	-0.00048
-30	120	5319.9901	-0.00019	5319.9877	-0.00023	5319.9922	-0.00015	5319.9903	-0.00018

FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	%	(MHz)	%	(MHz)	%	(MHz)	%
20	138	5319.9789	-0.00040	5319.9783	-0.00041	5319.9796	-0.00038	5319.9779	-0.00042
	120	5319.978	-0.00041	5319.9778	-0.00042	5319.9789	-0.00040	5319.9768	-0.00044
	102	5319.9789	-0.00040	5319.9776	-0.00042	5319.9793	-0.00039	5319.9777	-0.00042

4.6 6dB BANDWIDTH MEASUREMENT

4.6.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
SPECTRUM ANALYZER R&S	FSV 40	100964	July 15, 2013	July 14, 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 : June 20, 2014

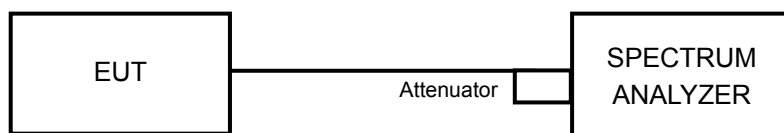
4.6.3 TEST PROCEDURE

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

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 TEST SETUP



4.6.6 EUT OPERATING CONDITIONS

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

4.6.7 TEST RESULTS

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
149	5745	16.58	0.5	PASS
157	5785	16.55	0.5	PASS
165	5825	16.54	0.5	PASS

802.11n (HT20)

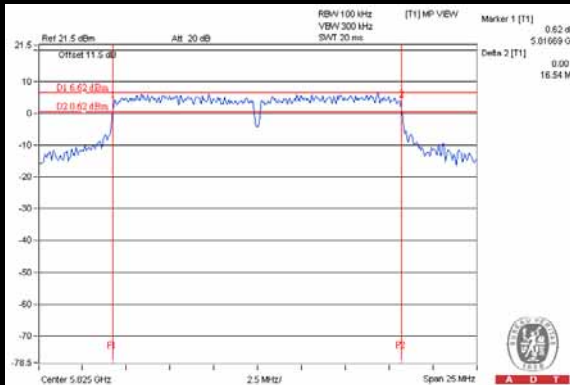
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	17.75	17.74	0.5	PASS
157	5785	17.80	17.74	0.5	PASS
165	5825	17.82	17.69	0.5	PASS

802.11n (HT40)

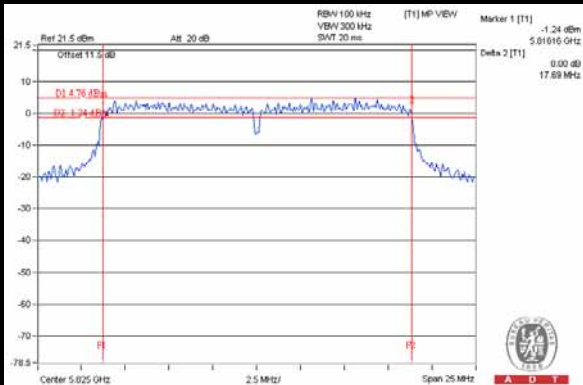
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
151	5755	36.59	36.51	0.5	PASS
159	5795	36.58	36.51	0.5	PASS

SPECTRUM PLOT OF WORST VALUE

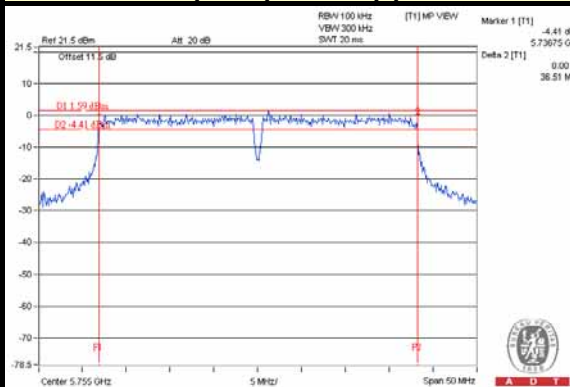
802.11a : CH165



802.11n (HT20) / Chain(1) : CH165



802.11n (HT40) / Chain(1) : CH151



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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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:

Linko EMC/RF Lab:

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Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

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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.



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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.

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