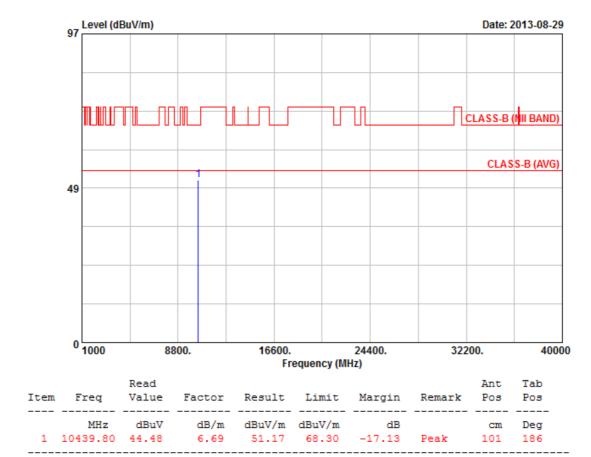
Power	:	AC 120V	Pol/Phase :	VERTICAL
Test Mode 1	:	802.11a, CH44	Temperature :	26 °C
Memo	:		Humidity :	48 %



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

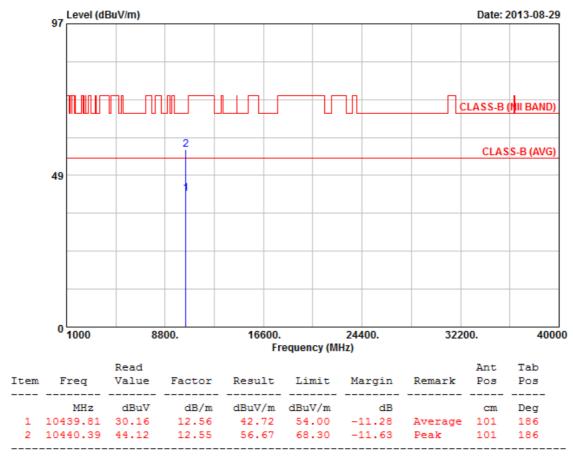
Cerpass Technology Corp.

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Power	:	AC 120V	Pol/Phase		HORIZONTAL
Test Mode 1	:	802.11a, CH44	Temperature	:	26 °C
Memo	:		Humidity	:	48 %



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

Cerpass Technology Corp.

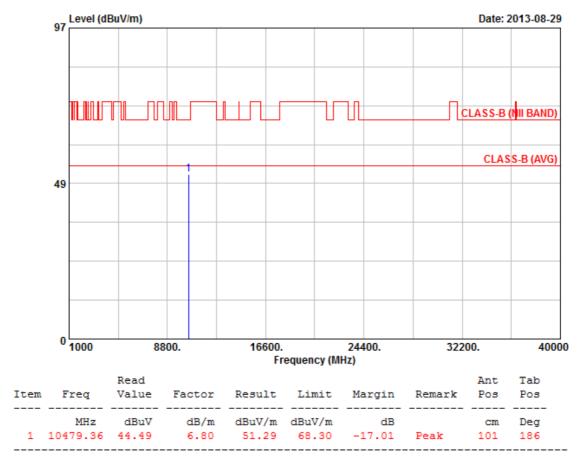
Tel:886-2-2655-8100 Fax:886-2-2655-8200

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Power :	AC 120V	Pol/Phase :	VERTICAL
Test Mode 1 :	802.11a, CH48	Temperature :	26 °C
Memo :		Humidity :	48 %



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

Cerpass Technology Corp.

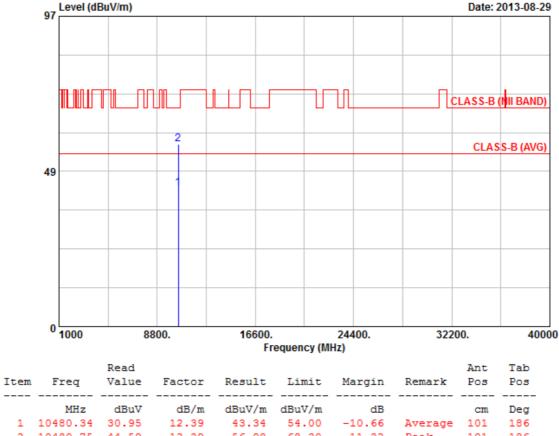
Tel:886-2-2655-8100 Fax:886-2-2655-8200

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Power :	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode 1 :	802.11a, CH48	Temperature :	26 °C
Memo :		Humidity :	48 %



# 10480.34 30.95 12.39 43.34 54.00 -10.66 10480.75 44.59 12.39 56.98 68.30 -11.32 Peak 101 186

### Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

Cerpass Technology Corp.

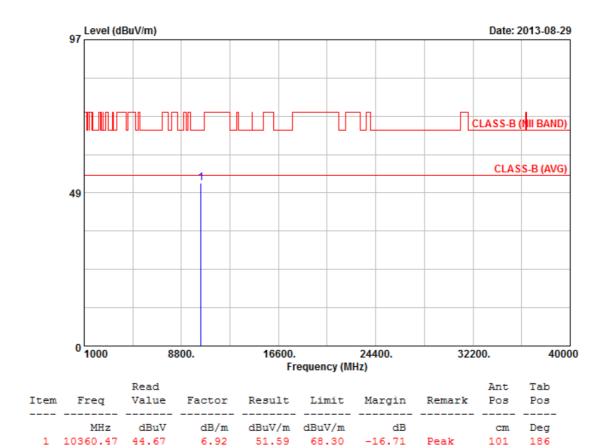
Tel:886-2-2655-8100 Fax:886-2-2655-8200

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Power :	AC 120V	Pol/Phase :	VERTICAL
Test Mode 2 :	802.11an HT20, CH36	Temperature :	26 °C
Memo :		Humidity :	48 %



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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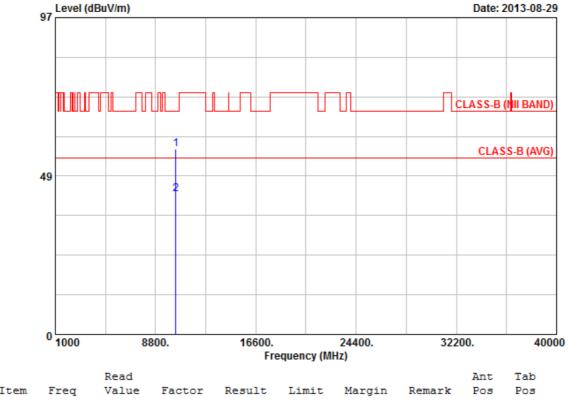
Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Sep. 11, 2013

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Power	:	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode 2	:	802.11an HT20, CH36	Temperature :	26 °C
Memo	:		Humidity :	48 %



Item	Freq	Value	Factor	Result	Limit	Margin	Remark	Pos	Pos	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg	
1	10359.78	44.38	12.29	56.67	68.30	-11.63	Peak	101	186	
2	10360.46	30.60	12.30	42.90	54.00	-11.10	Average	101	186	

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

Cerpass Technology Corp.

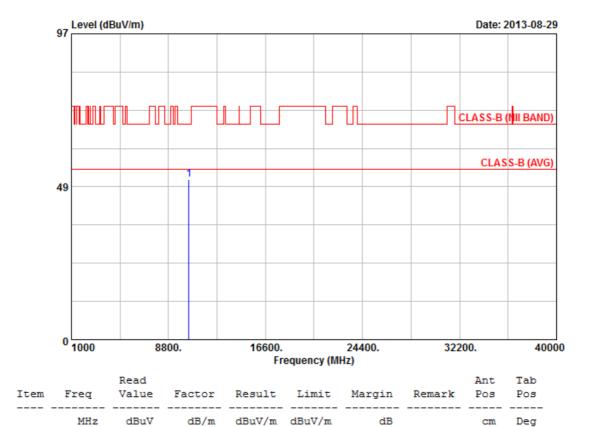
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Power :	AC 120V	Pol/Phase :	VERTICAL
Test Mode 2 :	802.11an HT20, CH44	Temperature :	26 °C
Memo :		Humidity :	48 %



1 10439.61 44.21

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.

6.69 50.90 68.30 -17.40 Peak

- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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Power	:	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode 2		802.11an HT20, CH44	Temperature :	26 °C
Memo			Humidity :	48 %



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

Cerpass Technology Corp.

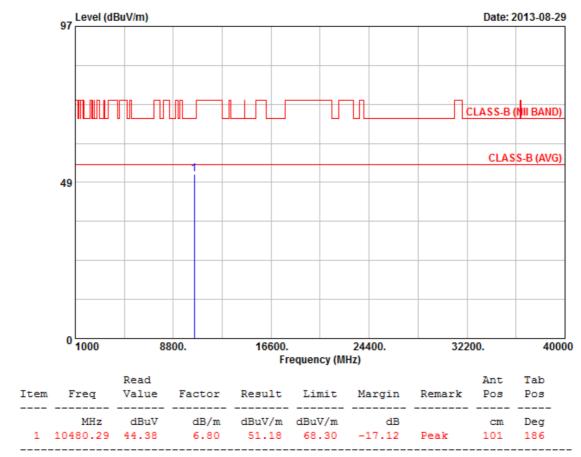
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Issued date : Sep. 11, 2013

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Power :	AC 120V	Pol/Phase :	VERTICAL
Test Mode 2 :	802.11an HT20, CH48	Temperature :	26 °C
Memo :		Humidity :	48 %



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

Cerpass Technology Corp.

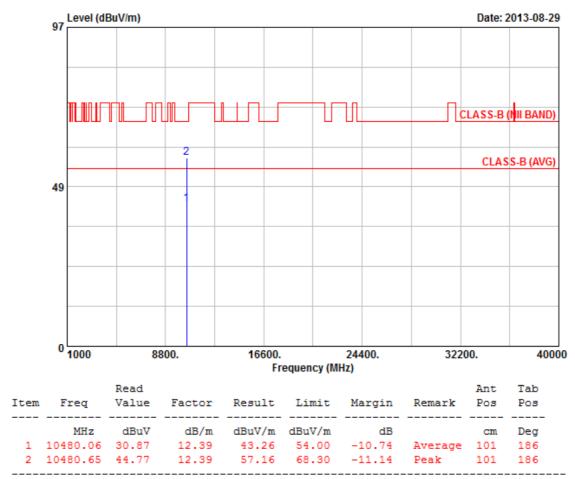
Tel:886-2-2655-8100 Fax:886-2-2655-8200

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Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	802.11an HT20, CH48	Temperature	:	26 °C
Memo	:		Humidity	:	48 %



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

Cerpass Technology Corp.

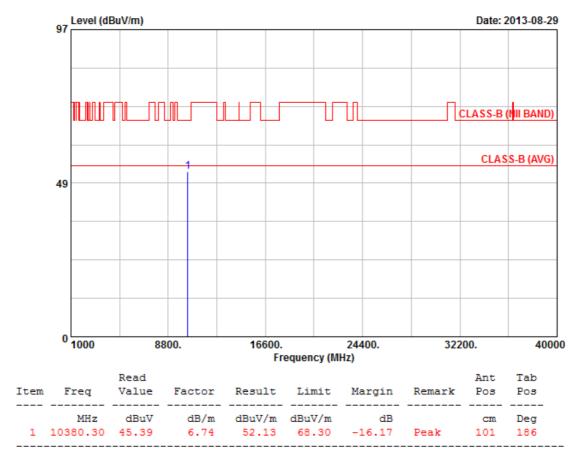
Tel:886-2-2655-8100 Fax:886-2-2655-8200

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Power :	AC 120V	Pol/Phase :	VERTICAL
Test Mode 3 :	802.11an HT40, CH38	Temperature :	26 °C
Memo :		Humidity :	48 %



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

Cerpass Technology Corp.

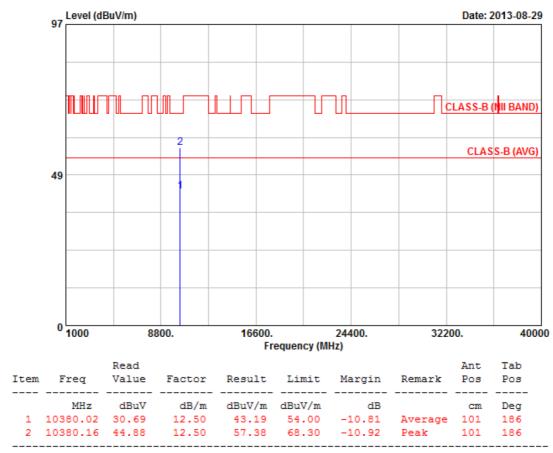
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Power :	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode 3 :	802.11an HT40, CH38	Temperature :	26 °C
Memo :		Humidity :	48 %



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

Cerpass Technology Corp.

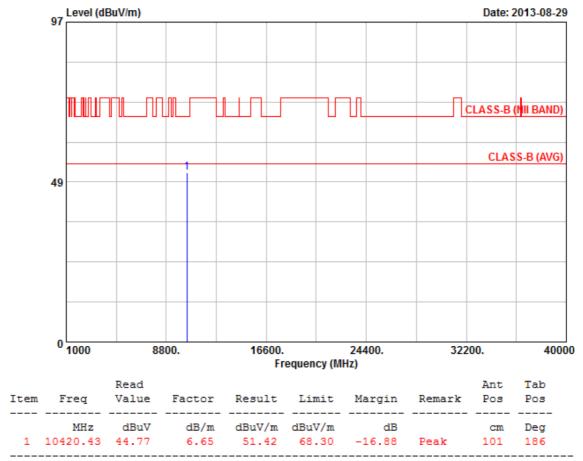
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Power :	AC 120V	Pol/Phase :	VERTICAL
Test Mode 3	802.11an HT40, CH42	Temperature :	26 °C
Memo :		Humidity :	48 %



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

Cerpass Technology Corp.

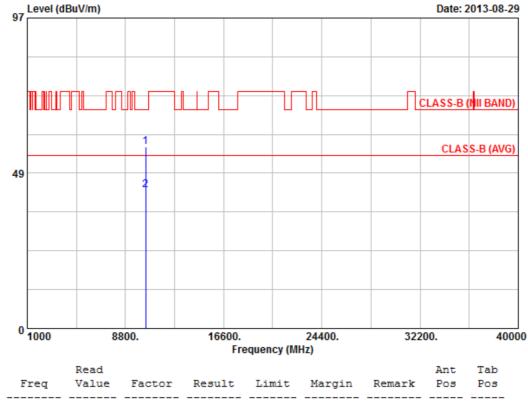
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Power :	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode 3 :	802.11an HT40, CH42	Temperature :	26 °C
Memo :		Humidity :	48 %



Item	Freq	Value	Factor	Result	Limit	Margin	Remark	Pos	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	10419.75	44.08	12.65	56.73	68.30	-11.57	Peak	101	186
2	10419.94	30.47	12.65	43.12	54.00	-10.88	Average	101	186

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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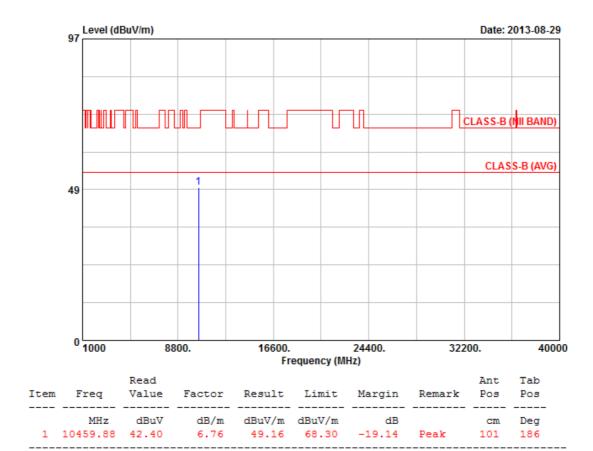
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Power :	AC 120V	Pol/Phase :	VERTICAL
Test Mode 3 :	802.11an HT40, CH46	Temperature :	26 °C
Memo :		Humidity :	48 %



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

Cerpass Technology Corp.

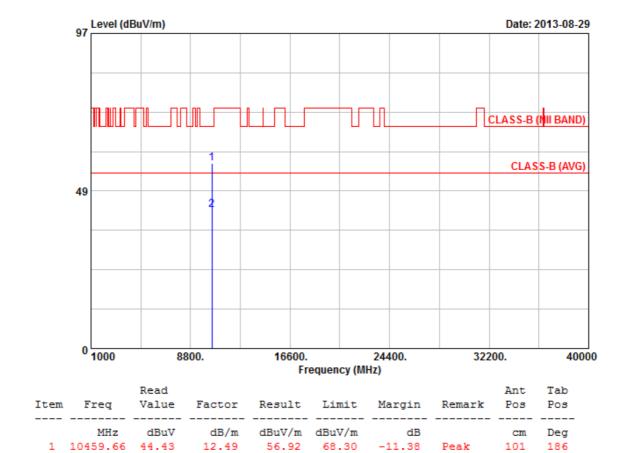
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FCC ID : ZTT-R20000G-2

Issued date : Sep. 11, 2013

Power	:	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode 3	:	802.11an HT40, CH46	Temperature :	26 °C
Memo	:		Humidity :	48 %



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.

2 10460.04 30.21 12.48 42.69 54.00 -11.31 Average 101 186

- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz (detector sample mode) for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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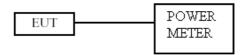
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# 6. Peak Transmit Power

# 6.1. Test Procedure

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

# 6.2. Test Setup Layout



# 6.3. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14
SERIES POWER METER	ANRITSU	ML2495A	1224005	2013/03/21	2014/03/20
POWER SENSOR	ANRITSU	MA2411B	1207295	2013/03/21	2014/03/20

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# 6.4. Test Result and Data

Test Date: Aug. 28, 2013 Temperature:  $26^{\circ}$ C Atmospheric pressure: 1019 hPa Humidity:  $45^{\circ}$ K

Modulation Standard: IEEE 802.11a (54Mbps)

Channel	- Fraguesia	Peak Power Output (dBm)			Peak Power	26dB Od	cupied
	Frequency (MHz)				Output (mW)	Bandwidth (MHz)	
		ANT R	ANT L	ANT R+L	ANT R+L	ANT R	ANT L
36	5180	7.57	7.57 7.56		11.42	22.3	22.3
44	5220	7.95 7.57 10.77 11		11.95	22.0	22.3	
48	5240	8.06	7.64	10.87	12.20	22.1	22.0

Modulation Standard: IEEE 802.11an, HT20 (130Mbps)

Channel	Frequency	Peak Power Output (dBm)			Peak Power Output (mW)	26dB Od Bandwidt	•
	(MHz)	ANT R	ANT L	ANT R+L	ANT R+L	ANT R	ANT L
36	5180	7.54	7.54 7.09		10.79	22.8	22.8
44	5220	0 7.88 6.75 10.36		10.36	10.87	22.7	22.7
48	5240	8.11	6.82	10.52	11.28	22.8	22.5

Modulation Standard: IEEE 802.11an, HT40 (270Mbps)

		_	Peak Power Output			Peak Power	26dB Oc	cupied
Channel	Frequency	(dBm)			Output (mW)	Bandwidt	h (MHz)	
		(MHz)	ANT R	ANT L	ANT R+L	ANT R+L	ANT R	ANT L
	38	5190	9.09	8.15	11.66	14.64	39.8	39.6
	42	5210	8.85	7.99	11.45	13.97	39.8	39.8
	46	5230	8.81	7.97	11.42	13.87	39.6	39.8

### Limit:

Frequency Band	Limit				
5.15 – 5.25 GHz	The lesser of 50mW(17dBm) or 4dBm + 10logB				
B is the 26dB emission bandwidth in MHz.					

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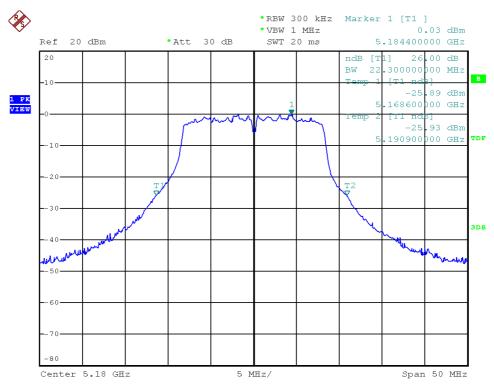
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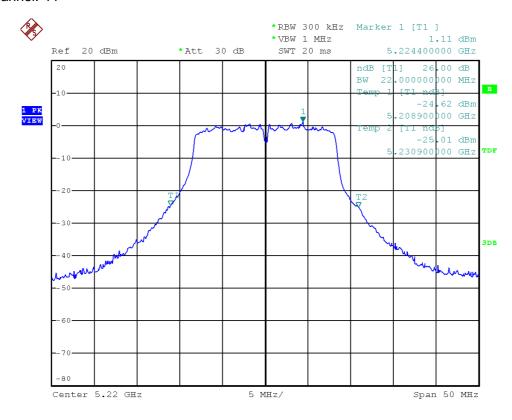
# 26dB Occupied Bandwidth

Modulation Standard: 802.11a (54Mbps), ANT R

Channel: 36



Modulation Standard: 802.11a (54Mbps), ANT R Channel: 44



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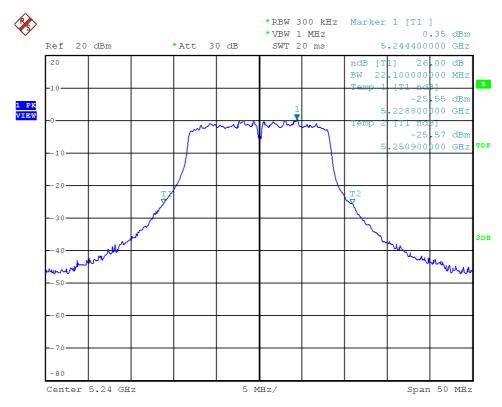
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FCC ID : ZTT-R20000G-2

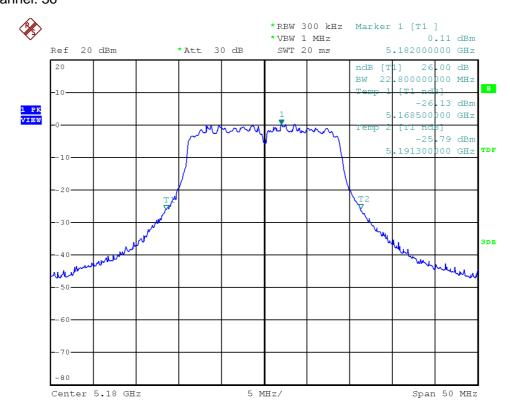
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Modulation Standard: 802.11a (54Mbps), ANT R Channel: 48



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 36



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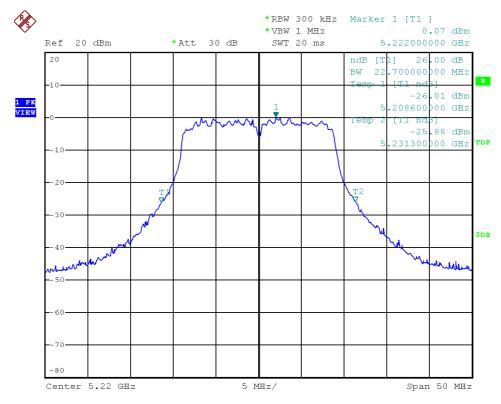
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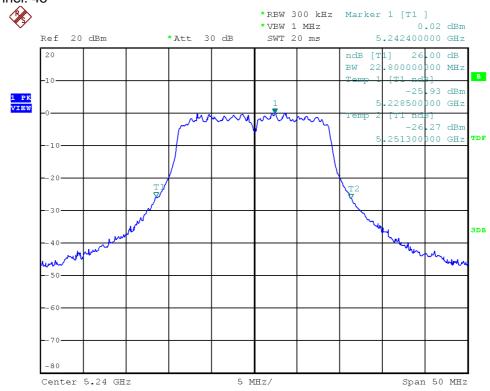
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Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 44



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 48



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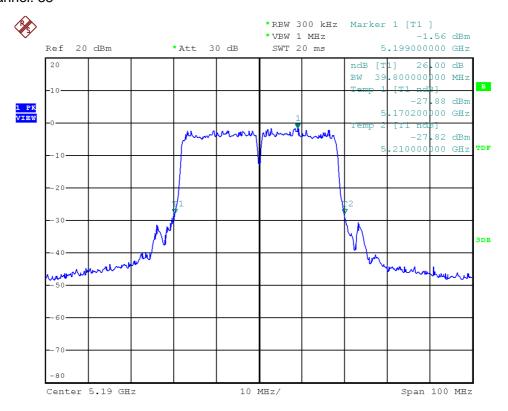
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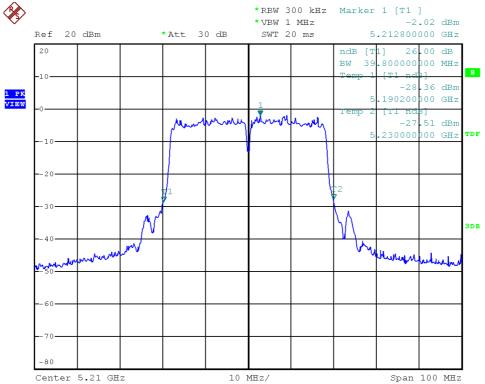
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Modulation Standard: 802.11an HT40 (270Mbps), ANT R Channel: 38



Modulation Standard: 802.11an HT40 (270Mbps), ANT R Channel: 42



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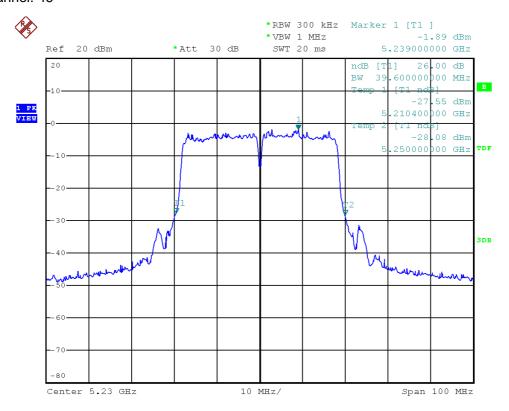
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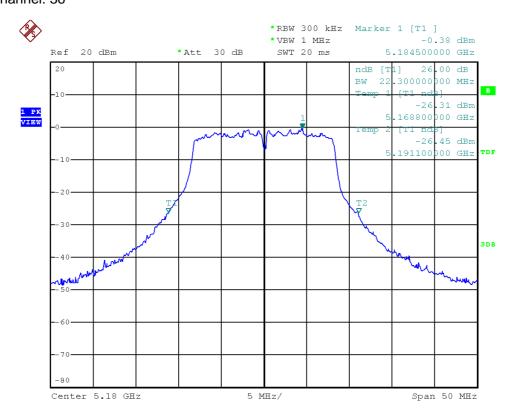
Report No.: TEFE1308094



Modulation Standard: 802.11an HT40 (270Mbps), ANT R Channel: 46



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 36



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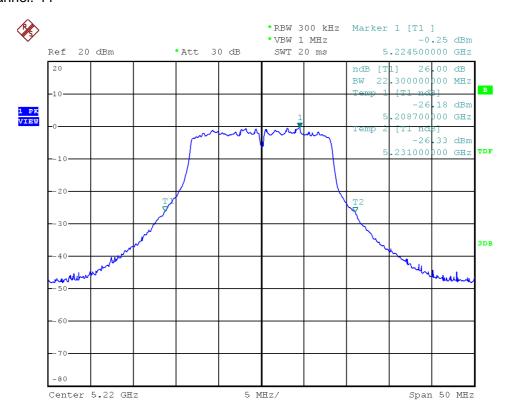
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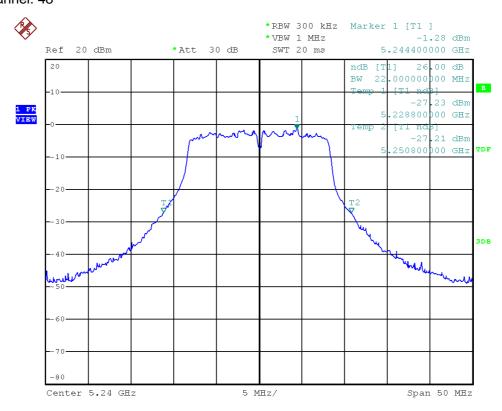
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Modulation Standard: 802.11a (54Mbps), ANT L Channel: 44



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 48



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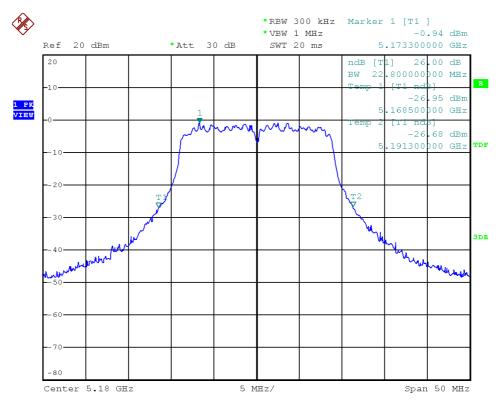
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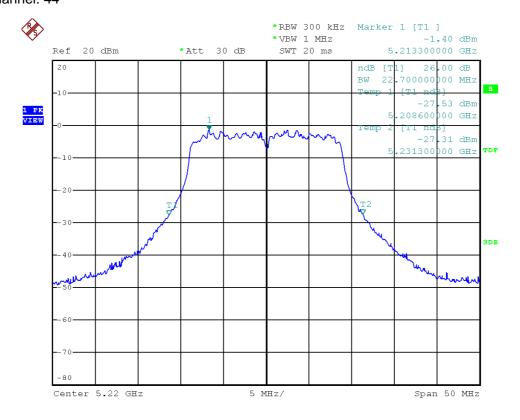
Report No.: TEFE1308094



Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 36



Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 44



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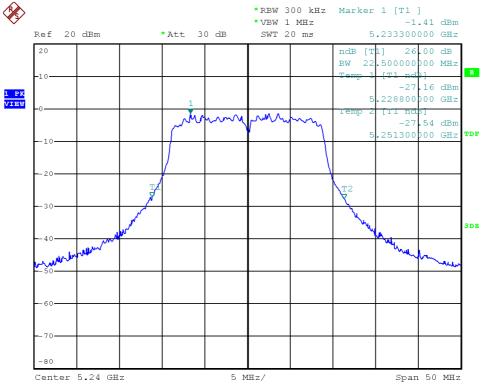
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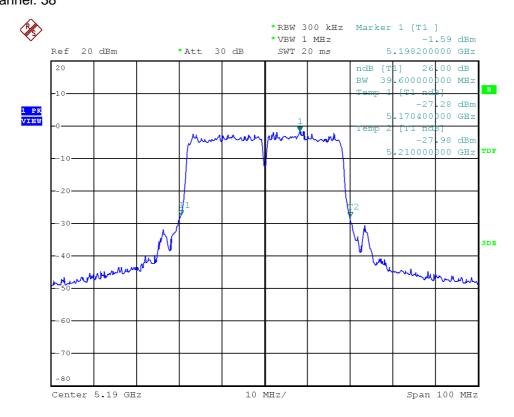
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Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 48



Modulation Standard: 802.11an HT40 (270Mbps), ANT L Channel: 38



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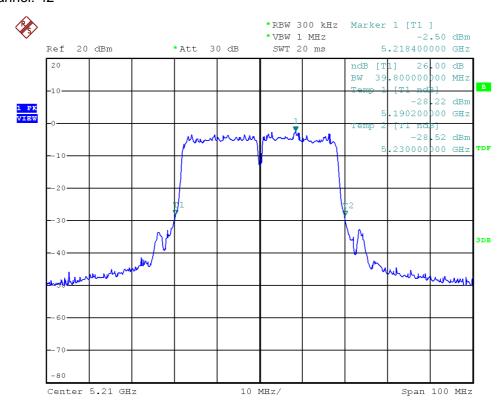
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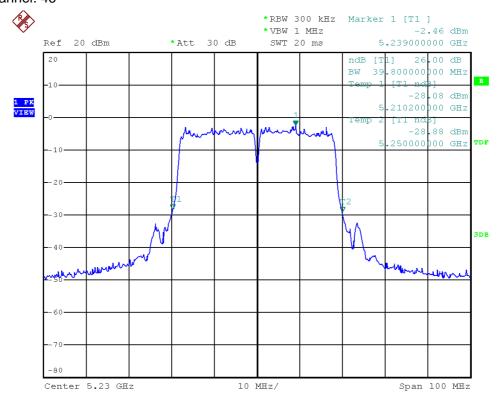
: Sep. 11, 2013



Modulation Standard: 802.11an HT40 (270Mbps), ANT L Channel: 42



Modulation Standard: 802.11an HT40 (270Mbps), ANT L Channel: 46



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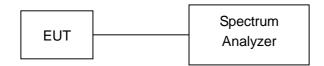
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# 7. Peak Power Excursion

## 7.1. Test Procedure

- 1. The transmitter output was connected to the spectrum analyzer
- 2. Using Peak detector and max-hold function for Trace 1.
- 3. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz for Trace 1.
- 4. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz for Trace 2, Set detector mode to RMS, trace average 100 traces in power averaging mode.
- 5. The largest difference between Trace 1 and Trace 2 in any 1 MHz band on any frequency was recorded.

# 7.2. Test Setup Layout



# 7.3. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14

# 7.4. Test Result and Data

Temperature: 26°C Test Date: Aug. 28, 2013 Atmospheric pressure: 1019 hPa Humidity: 45%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)		Limit (dB)
			ANT R	ANT L	
802.11a (54Mbps)	36	5180	8.72	8.58	13
	44	5220	8.70	8.54	13
	48	5240	8.75	8.82	13
802.11an HT20 (130Mbps)	36	5180	8.38	8.28	13
	44	5220	8.20	8.21	13
	48	5240	8.37	7.95	13
802.11an HT40 (270Mbps)	38	5190	8.44	8.11	13
	42	5210	8.00	8.45	13
	46	5230	8.31	8.09	13

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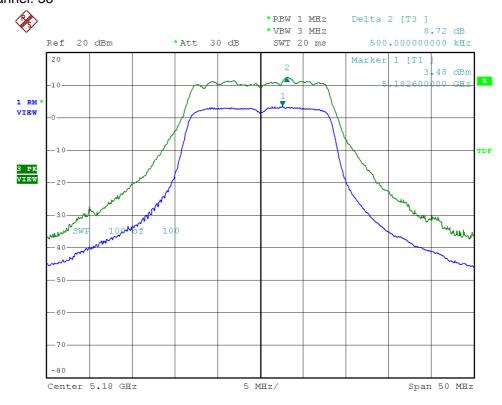
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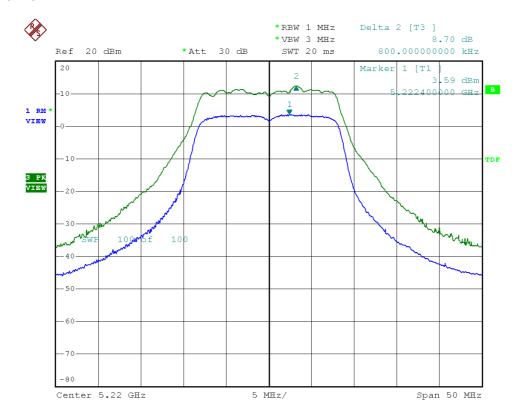
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Modulation Standard: 802.11a (54Mbps), ANT R Channel: 36



Modulation Standard: 802.11a (54Mbps), ANT R Channel: 44



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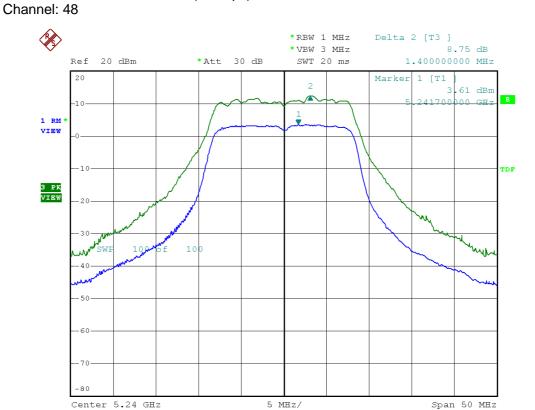
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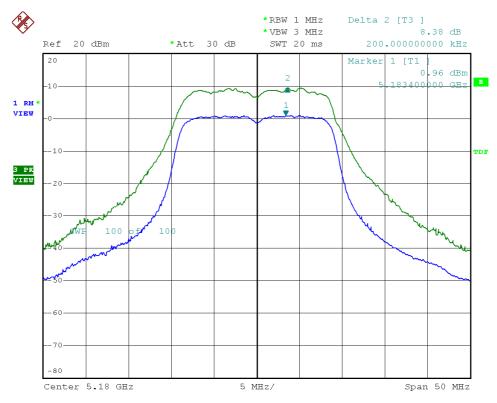
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Modulation Standard: 802.11a (54Mbps), ANT R



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 36



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: ZTT-R20000G-2

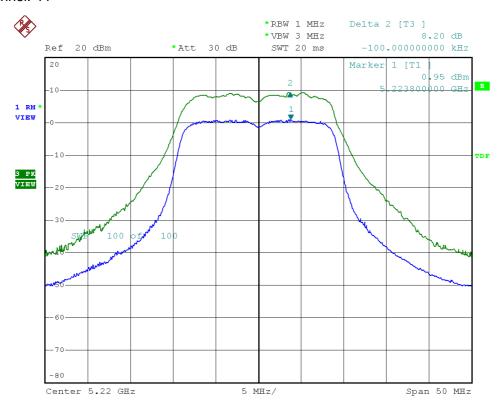
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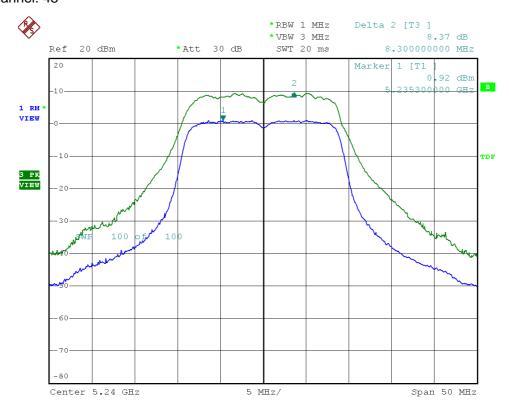
FCC ID



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 44



Modulation Standard: 802.11an, HT20 (130Mbps) , ANT R Channel: 48



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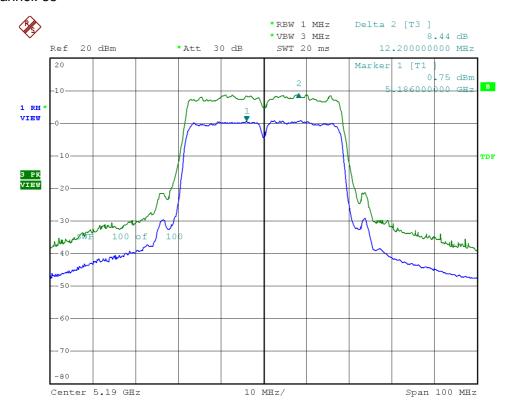
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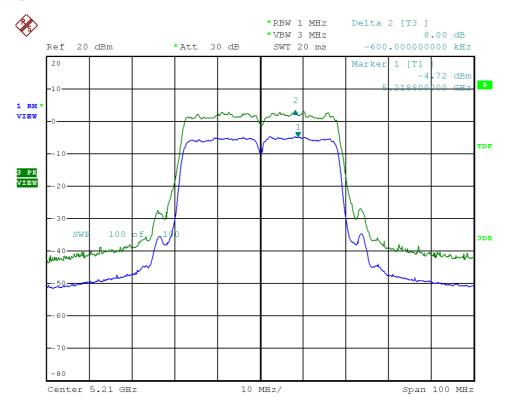
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Modulation Standard: 802.11an HT40 (270Mbps), ANT R Channel: 38



Modulation Standard: 802.11an HT40 (130Mbps), ANT R Channel: 42



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Issued date : Sep. 11, 2013

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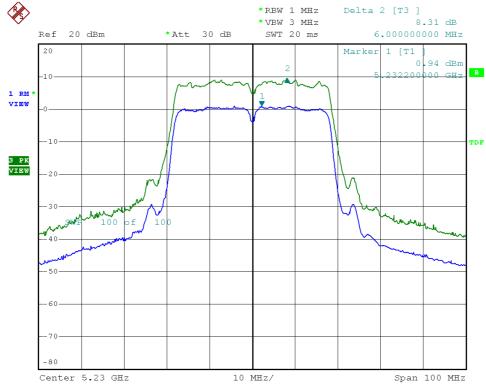
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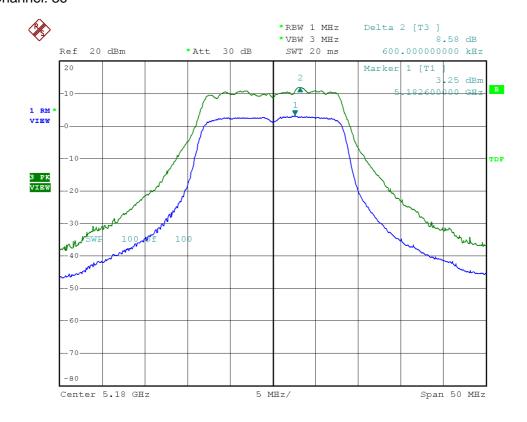
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Modulation Standard: 802.11an HT40 (130Mbps), ANT R Channel: 46



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 36



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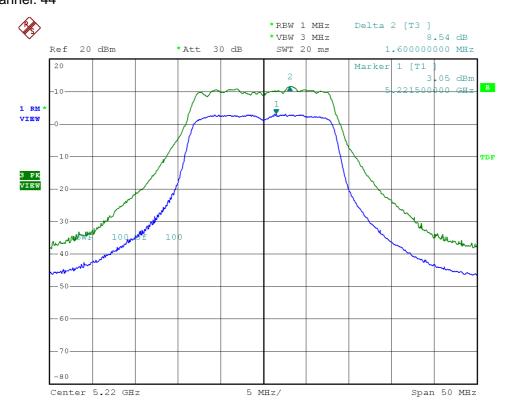
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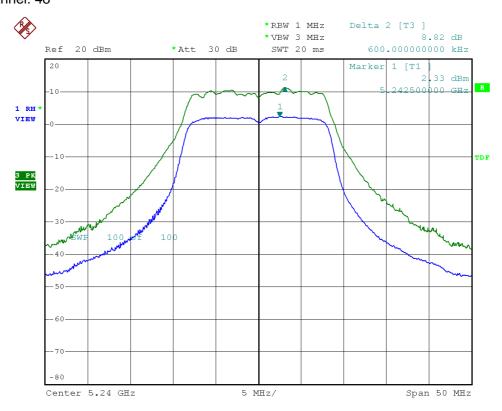
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Modulation Standard: 802.11a (54Mbps), ANT L Channel: 44



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 48



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Issued date : Sep. 11, 2013

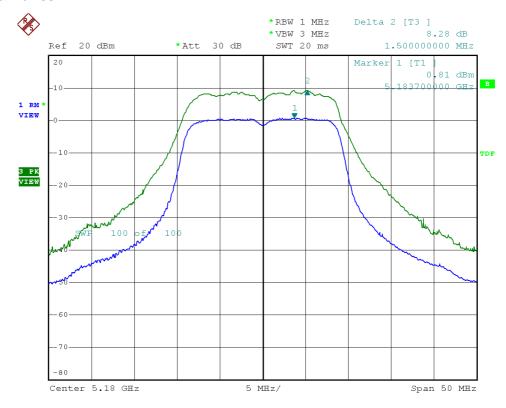
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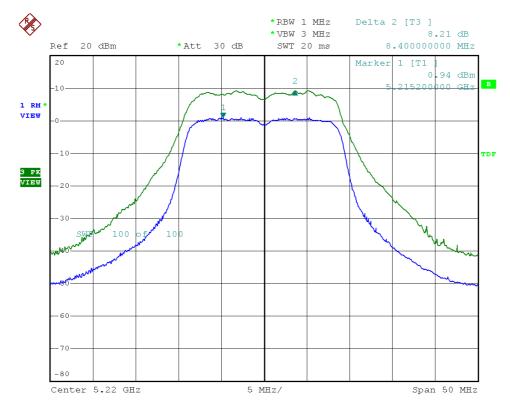
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Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 36



Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 44



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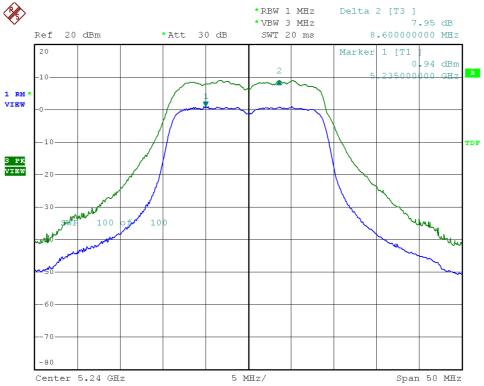
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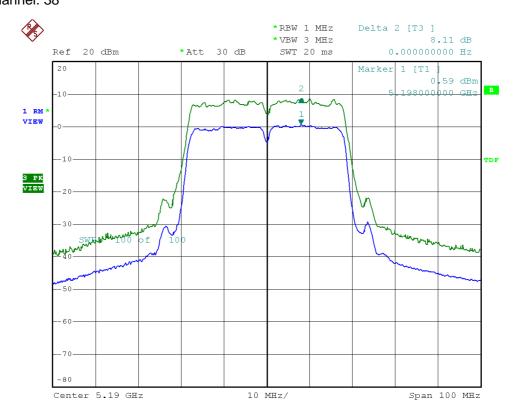
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Modulation Standard: 802.11an, HT20 (130Mbps) , ANT L Channel: 48  $\,$ 



Modulation Standard: 802.11an HT40 (270Mbps), ANT L Channel: 38



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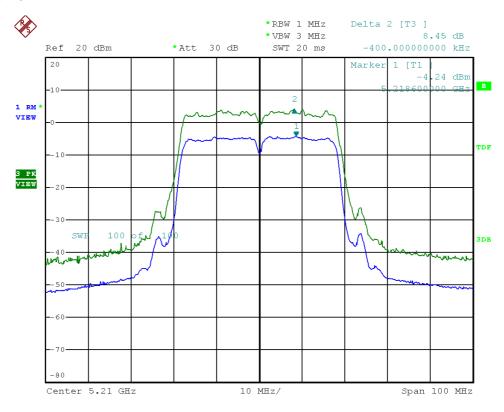
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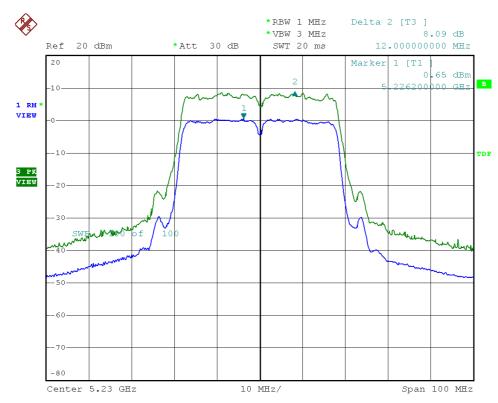
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Modulation Standard: 802.11an HT40 (130Mbps), ANT L Channel: 42



Modulation Standard: 802.11an HT40 (130Mbps), ANT L Channel: 46



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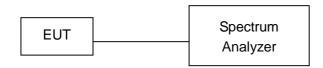
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# 8. Peak Power Spectral Density

## 8.1. Test Procedure

- 1. The transmitter output was connected to spectrum analyzer.
- 2. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz, Set detector mode to RMS, trace average 100 traces in power averaging mode.
- 3. The Peak Power Spectral Density is the highest level found across the emission in any 1MHz Band

# 8.2. Test Setup Layout



## 8.3. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14

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# 8.4. Test Result and Data

Test Date: Aug. 28, 2013 Temperature:  $26^{\circ}$ C Atmospheric pressure: 1019 hPa Humidity: 45%

Modulation	Channel Frequency			Power Lev //Hz BW (d	Limit (dB)	
Standard		(MHz)	ANT R	ANT L	ANT R+L	,
000.44	36	5180	-2.34	-2.65	0.52	2.99
802.11a (54Mbps)	44	5220	-2.19	-2.42	0.71	2.99
(5556)	48	5240	-2.14	-2.21	0.84	2.99

Modulation Standard	Channel	Frequency (MHz)		Power Lev 1Hz BW (d		Limit (dB)	
			ANT R	ANT L	ANT R+L		
802.11an	36	5180	-2.56	-2.13	-0.67	2.99	
HT20	44	5220	-2.39	-2.15	0.74	2.99	
(130Mbps)	48	5240	-2.15	-2.43	0.72	2.99	
802.11an	38	5190	-4.55	-4.85	-1.69	2.99	
HT40	42	5210	-4.45	-4.32	-1.37	2.99	
(270Mbps)	46	5230	-4.32	-4.30	-1.30	2.99	

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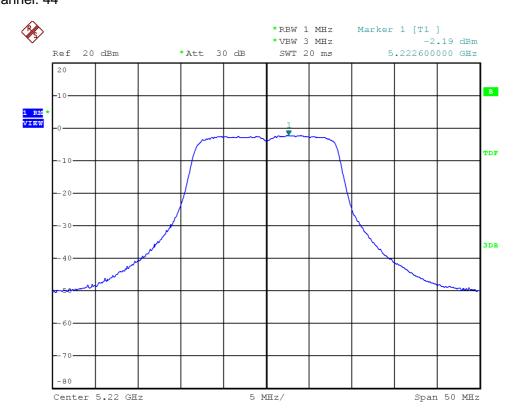
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Modulation Standard: 802.11a (54Mbps), ANT R Channel: 36



Modulation Standard: 802.11a (54Mbps), ANT R Channel: 44



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Issued date : Sep. 11, 2013

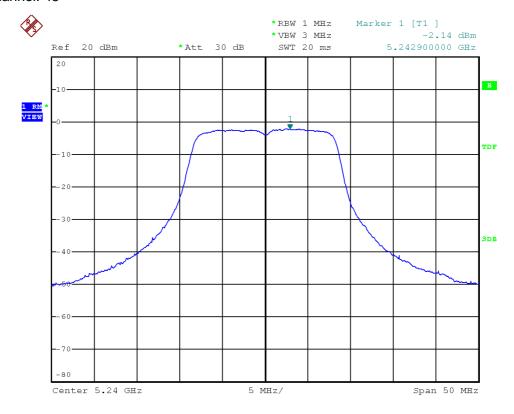
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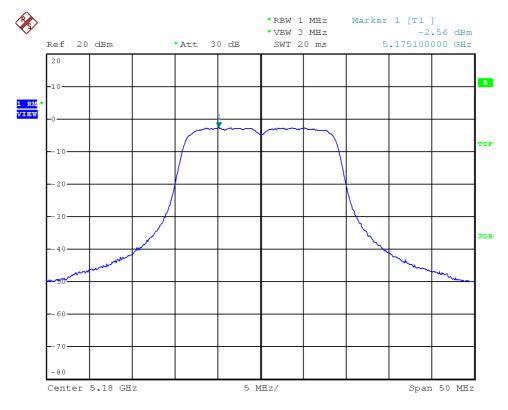
Report No.: TEFE1308094



Modulation Standard: 802.11a (54Mbps), ANT R Channel: 48



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 36



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Issued date : Sep. 11, 2013

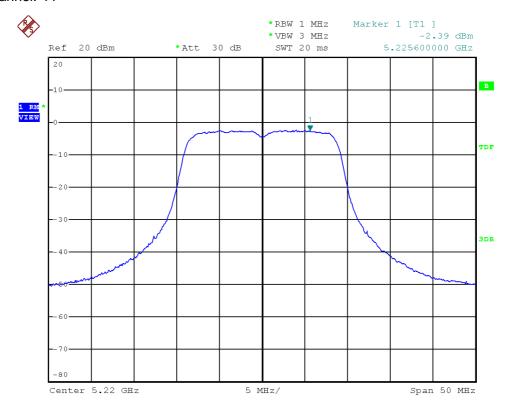
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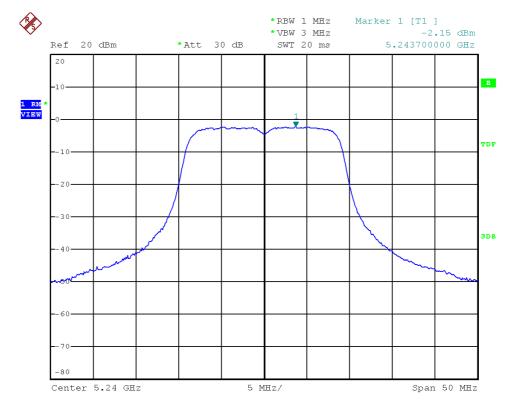
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Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 44



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 48



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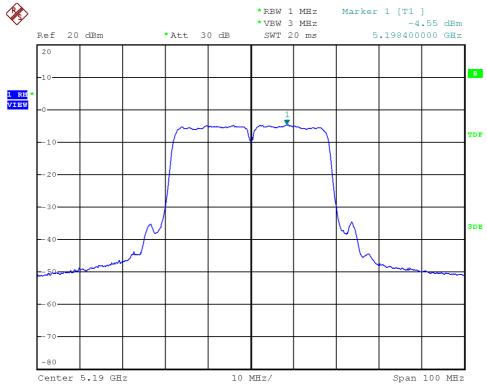
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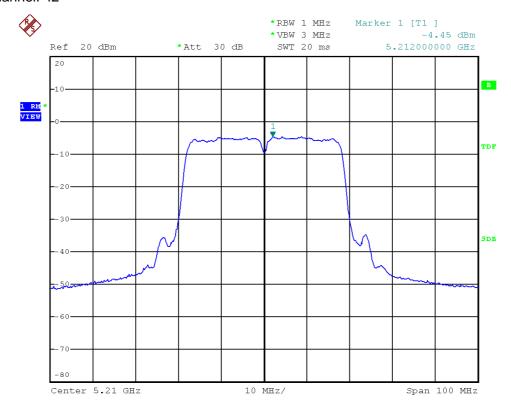
FCC ID : ZTT-R20000G-2



Modulation Standard: 802.11an, HT40 (270Mbps), ANT R Channel: 38



Modulation Standard: 802.11an, HT40 (270Mbps), ANT R Channel: 42



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Issued date : Sep. 11, 2013

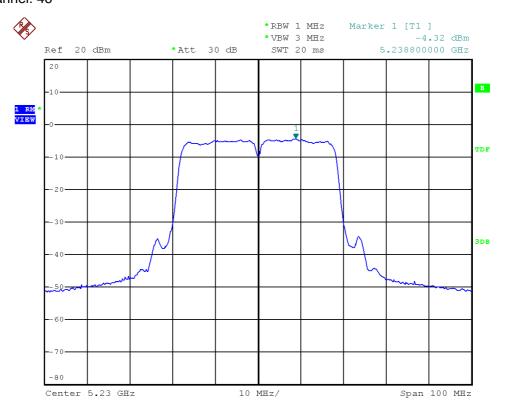
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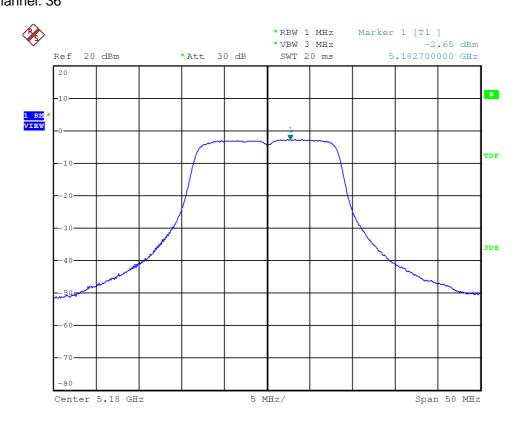
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Modulation Standard: 802.11an, HT40 (270Mbps), ANT R Channel: 46



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 36



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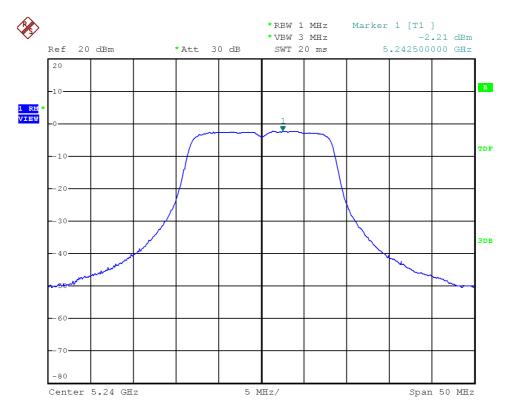
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Modulation Standard: 802.11a (54Mbps), ANT L Channel: 44



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 48



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Issued date : Sep. 11, 2013

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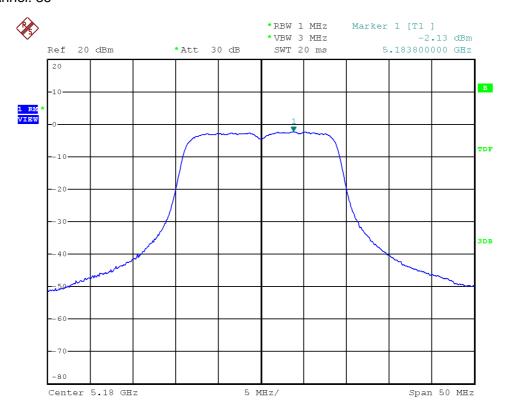
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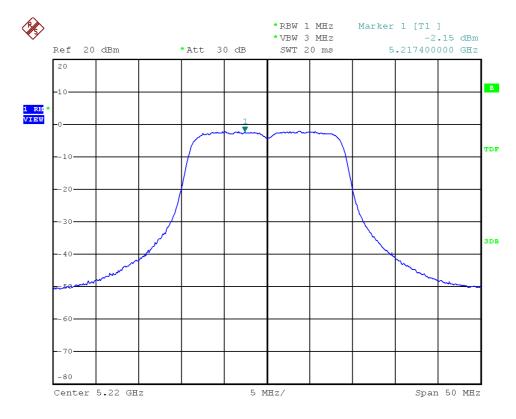
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Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 36



Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 44



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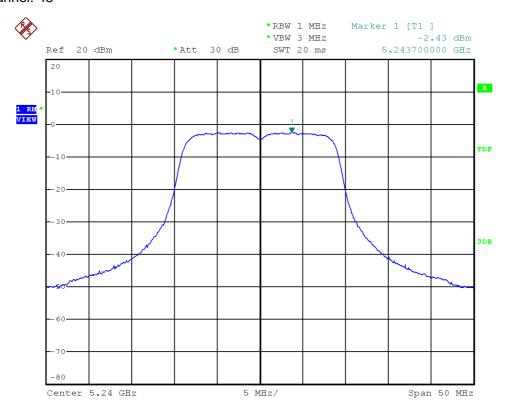
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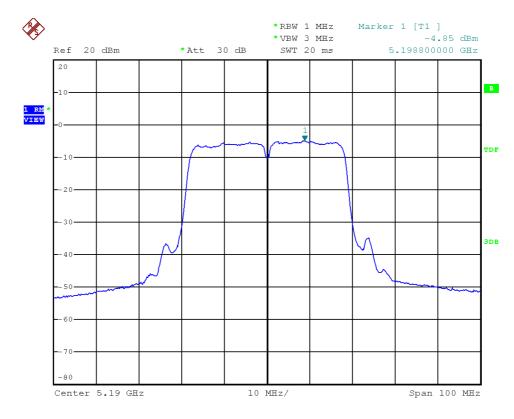
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Modulation Standard: 802.11an, HT20 (130Mbps), ANT L Channel: 48



Modulation Standard: 802.11an, HT40 (270Mbps), ANT L Channel: 38



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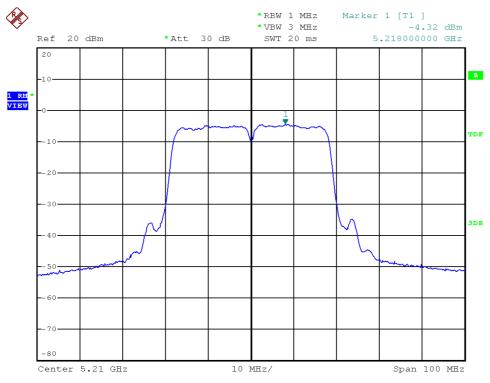
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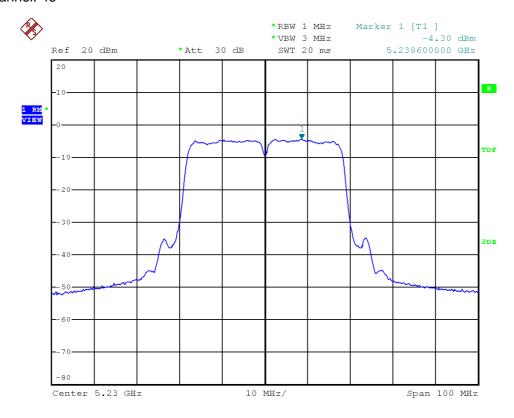
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Modulation Standard: 802.11an, HT40 (270Mbps), ANT L Channel: 42



Modulation Standard: 802.11an, HT40 (270Mbps), ANT L Channel: 46



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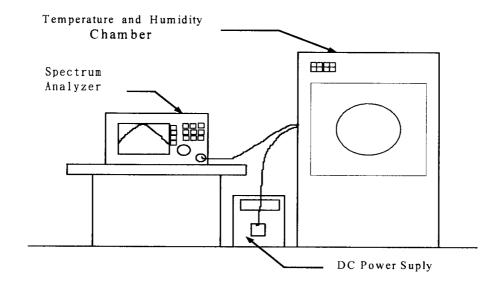
FCC ID : ZTT-R20000G-2

# 9. Frequency Stability

#### 9.1. Test Procedure

- 1. The EUT was placed inside the Temperature and Humidity chamber.
- 2. The transmitter output was connected to spectrum analyzer.
- 3. Turn the EUT on and couple its output to a spectrum analyzer.
- 4. Turn the EUT off and set the chamber to the highest temperature specified.
- 5. 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.
- 6. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- 7. 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.

### 9.2. Test Setup Layout



#### 9.3. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14
TEMPERATURE CHAMBER	T MACHINE	TMJ-9712	T-12-040111	2012/09/21	2013/09/20
DC Power Supply	GPD-3030	GM	7020936	N/A	N/A
AC POWER CONVERTER	AFC-11005	APC	F103120008	N/A	N/A

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## 9.4. Test Result and Data

Test Date: Aug. 28, 2013 Temperature: 26°C Humidity: 45% Atmospheric pressure: 1019 hPa

Operating frequency: 5230 MHz									
Temp	Power	2 mii	nute	5 mi	nute	10 m	inute		
(°C)	supply (V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)		
	102	5229.9824	-0.000337	5229.9808	-0.000367	5229.9802	-0.000379		
50	120	5229.9888	-0.000214	5229.9850	-0.000287	5229.9826	-0.000333		
	138	5229.9892	-0.000207	5229.9902	-0.000187	5229.9882	-0.000226		
	102	5229.9886	-0.000218	5229.9878	-0.000233	5229.9884	-0.000222		
40	120	5229.9882	-0.000226	5229.9886	-0.000218	5229.9884	-0.000222		
	138	5229.9898	-0.000195	5229.9884	-0.000222	5229.9888	-0.000214		
	102	5229.9484	-0.000987	5229.9482	-0.000990	5229.9484	-0.000987		
30	120	5229.9490	-0.000975	5229.9495	-0.000966	5229.9484	-0.000987		
	138	5229.9484	-0.000987	5229.9488	-0.000979	5229.9494	-0.000967		
	102	5229.9384	-0.001178	5229.9392	-0.001163	5229.9388	-0.001170		
20	120	5229.9392	-0.001163	5229.9386	-0.001174	5229.9394	-0.001159		
	138	5229.9388	-0.001170	5229.9388	-0.001170	5229.9396	-0.001155		
	102	5229.9502	-0.000952	5229.9492	-0.000971	5229.9502	-0.000952		
10	120	5229.9500	-0.000956	5229.9496	-0.000964	5229.9490	-0.000975		
	138	5229.9498	-0.000960	5229.9490	-0.000975	5229.9494	-0.000967		
	102	5229.9776	-0.000428	5229.9760	-0.000459	5229.9734	-0.000509		
0	120	5229.9706	-0.000562	5229.9706	-0.000562	5229.9690	-0.000593		
	138	5229.9674	-0.000623	5229.9672	-0.000627	5229.9664	-0.000642		
	102	5229.9778	-0.000424	5229.9774	-0.000432	5229.9776	-0.000428		
-10	120	5229.9780	-0.000421	5229.9780	-0.000421	5229.9774	-0.000432		
	138	5229.9790	-0.000402	5229.9792	-0.000398	5229.9806	-0.000371		
	102	5229.9828	-0.000329	5229.9820	-0.000344	5229.9822	-0.000340		
-20	120	5229.9826	-0.000333	5229.9812	-0.000359	5229.9808	-0.000367		
	138	5229.9838	-0.000310	5229.9240	-0.001453	5229.9838	-0.000310		
	102	5229.9848	-0.000291	5229.9890	-0.000210	5229.9852	-0.000283		
-30	120	5229.9844	-0.000298	5229.9844	-0.000298	5229.9842	-0.000302		
	138	5229.9826	-0.000333	5229.9842	-0.000302	5229.9846	-0.000294		

Limit: ±20ppm

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# 10. Band Edges Measurement

#### 10.1. Test Procedure

- 1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- 2. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz with convenient frequency span including 100 MHz bandwidth from band edge.
- 3. The band edges was measured and recorded.

## 10.2. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2013/03/15	2014/03/14

#### 10.3. Test Result and Data

Test Date: Aug. 28, 2013 Temperature:  $26^{\circ}$ C Atmospheric pressure: 1019 hPa Humidity: 45%

Modulation Standard	I Channel		maximum frequenc		maximum value (dBm)		
Staridard		(MHz)	ANT R	ANT L	ANT R	ANT L	
802.11a (54Mbps)	36	5180	5149.80	5150.00	-35.26	-37.07	
802.11an HT20 (130Mbps)	36	5180	5149.20	5150.00	-33.43	-38.46	
802.11an HT40 (270Mbps)	38	5190	5150.00	5149.20	-28.01	-35.49	

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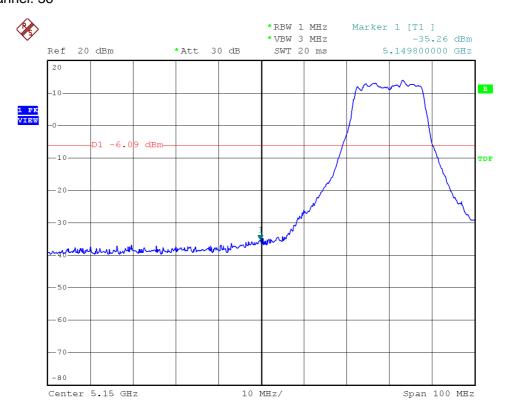
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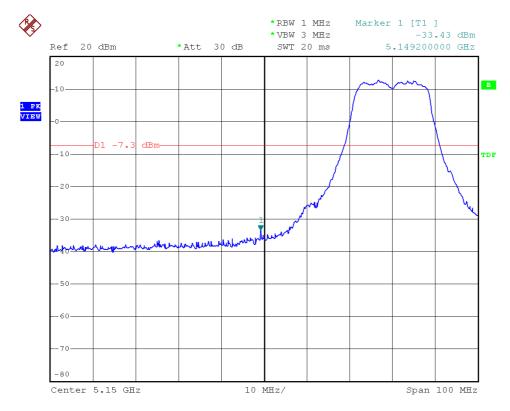
Report No.: TEFE1308094



Modulation Standard: 802.11a (54Mbps), ANT R Channel: 36



Modulation Standard: 802.11an, HT20 (130Mbps), ANT R Channel: 36



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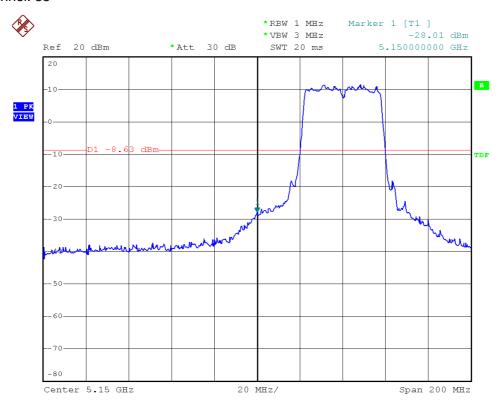
Page No.

Report No.: TEFE1308094

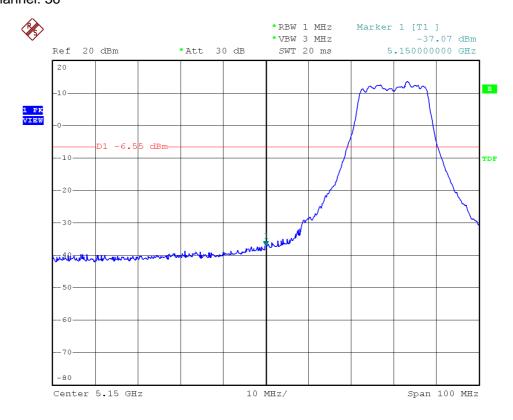
FCC ID : ZTT-R20000G-2



Modulation Standard: 802.11an HT40 (270Mbps), ANT R Channel: 38



Modulation Standard: 802.11a (54Mbps), ANT L Channel: 36



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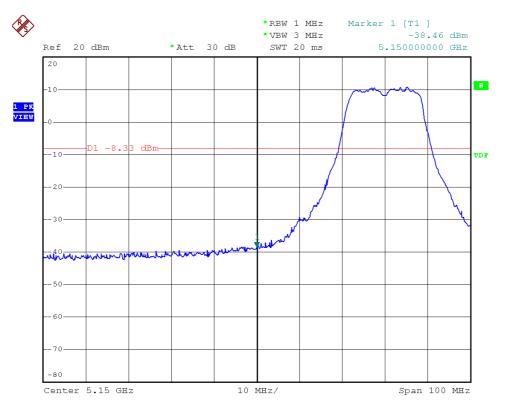
Report No.: TEFE1308094

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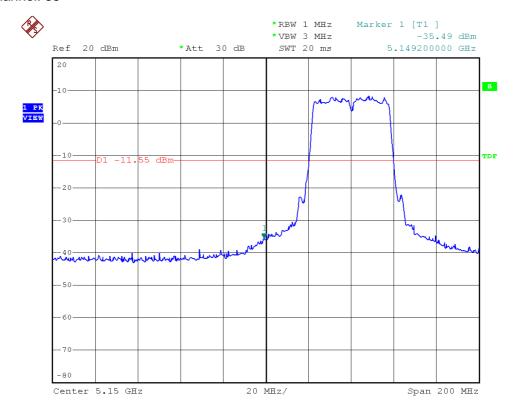
FCC ID



Modulation Standard: 802.11an HT20 (130Mbps), ANT L Channel: 36



Modulation Standard: 802.11an, HT40 (270Mbps), ANT L Channel: 38



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#### 10.4. Restrict Band Emission Measurement Data

Test Date: Aug. 29, 2013 Temperature: 26°C Atmospheric pressure: 1016 hPa Humidity: 48%

Modulation Standard: IEEE 802.11a (54Mbps)

Channel 36	3					Fι	ındamer	ntal Frequ	uency: 5	180 MHz
Frequency	Ant-Pol	Meter	Corrected	Result		Limit (d	BuV/m)	Margin	Table	Ant High
(MHz)	H/V	Reading (dBuV)	Factor (dB)	(dBuV/m)	Remark	Peak	Ave	(dB)	Deg.	(m)
5114.80	Н	49.21	7.32	56.53	Peak	74	54	-17.47	214	1.00
5149.75	Н	36.98	7.59	44.57	Ave	74	54	-9.43	214	1.00
5101.20	V	49.45	7.93	57.38	Peak	74	54	-16.62	162	1.00
5149.75	V	37.13	7.36	44.49	Ave	74	54	-9.51	162	1.00

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Modulation Standard: IEEE 802.11an, HT20 (130Mbps)

Channel 36	Channel 36 Fundamental Frequency: 5180 MHz									
Frequency	Ant-Pol	Meter	Corrected	Result		`	BuV/m)	Margin	Table	Ant High
(MHz)	H/V	Reading (dBuV)	Factor (dB)	(dBuV/m)	Remark	Peak	Ave	(dB)	Deg.	(m)
5119.50	Н	48.98	7.36	56.34	Peak	74	54	-17.66	213	1.00
5149.50	Н	36.96	7.59	44.55	Ave	74	54	-9.45	213	1.00
5111.80	<b>V</b>	49.29	7.82	57.11	Peak	74	54	-16.89	155	1.00
5149.75	<b>&gt;</b>	37.19	7.36	44.55	Ave	74	54	-9.45	155	1.00

Modulation Standard: IEEE 802.11an, HT40 (270Mbps)

Channel 38	3					Fu	ındamer	ntal Frequ	uency: 5	190 MHz
Frequency	Ant-Pol	Meter	Corrected	result -		Limit (d	Limit (dBuV/m)		Table	Ant High
(MHz)	H/V	Reading (dBuV)	Factor (dB)	(dBuV/m)	Remark	Peak	Ave	(dB)	Deg.	(m)
5115.50	Н	48.84	7.32	56.16	Peak	74	54	-17.84	212	1.00
5148.50	Н	37.02	7.59	44.61	Ave	74	54	-9.39	212	1.00
5113.20	V	49.42	7.80	57.22	Peak	74	54	-16.78	150	1.00
5148.50	V	37.25	7.38	44.63	Ave	74	54	-9.37	150	1.00

### Notes:

1. Result = Meter Reading + Factor

- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz (detector peak mode) for Peak detection at frequency above 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz (detector sample mode) for Average detection at frequency above 1GHz.

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# 11. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 - 0.11000	16.42000 - 16.42300	399.9 – 410.0	4.500 – 5.150
0.49500 - 0.505**	16.69475 - 16.69525	608.0 - 614.0	5.350 - 5.460
2.17350 - 2.19050	16.80425 - 16.80475	960.0 - 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 - 25.67000	1300.0 - 1427.0	8.025 - 8.500
4.17725 – 4.17775	37.50000 - 38.25000	1435.0 – 1626.5	9.000 - 9.200
4.20725 - 4.20775	73.00000 - 74.60000	1645.5 – 1646.5	9.300 - 9.500
6.21500 - 6.21800	74.80000 - 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 - 6.26825	108.00000 - 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 - 138.00000	2200.0 - 2300.0	14.470 – 14.500
8.29100 - 8.29400	149.90000 - 150.05000	2310.0 - 2390.0	15.350 – 16.200
8.36200 - 8.36600	156.52475 - 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 - 8.38675	156.70000 - 156.90000	2655.0 - 2900.0	22.010 – 23.120
8.41425 - 8.41475	162.01250 - 167.17000	3260.0 - 3267.0	23.600 – 24.000
12.29000 - 12.29300	167.72000 - 173.20000	3332.0 - 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 - 285.00000	3345.8 - 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 - 335.40000	3600.0 - 4400.0	Above 38.6
13.36000 – 13.41000			

<sup>\*\*:</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

## 11.1. Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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