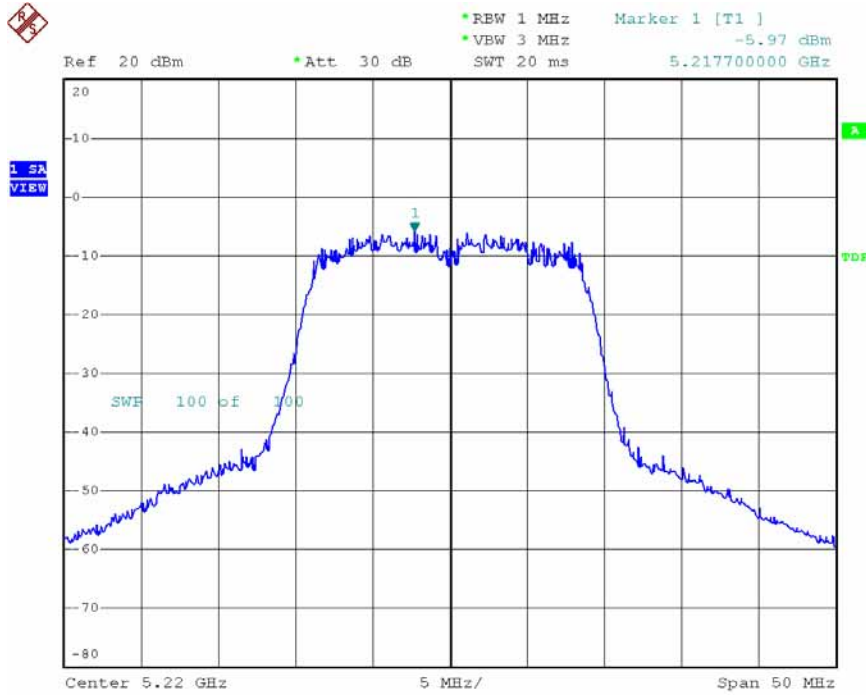
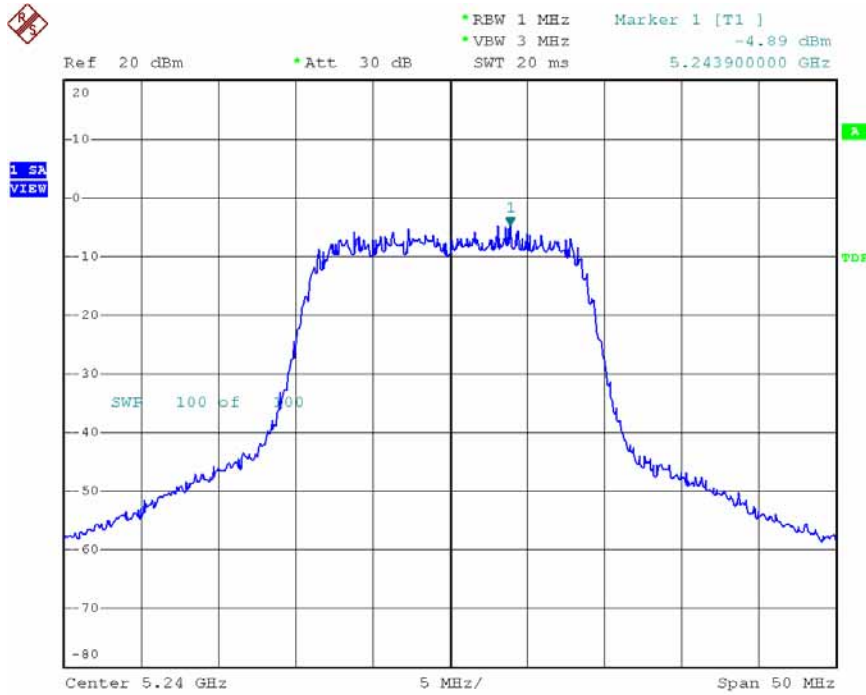


Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-L1+ ANT-R3 (ANT-R3)
Channel: 44



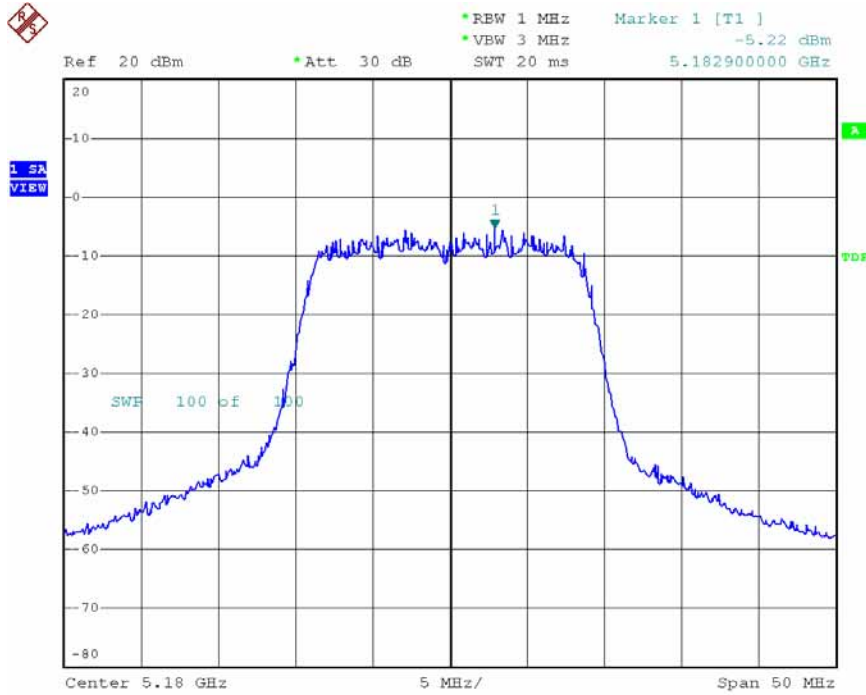
Date: 12.DEC.2007 18:29:07

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-L1+ ANT-R3 (ANT-R3)
Channel: 48



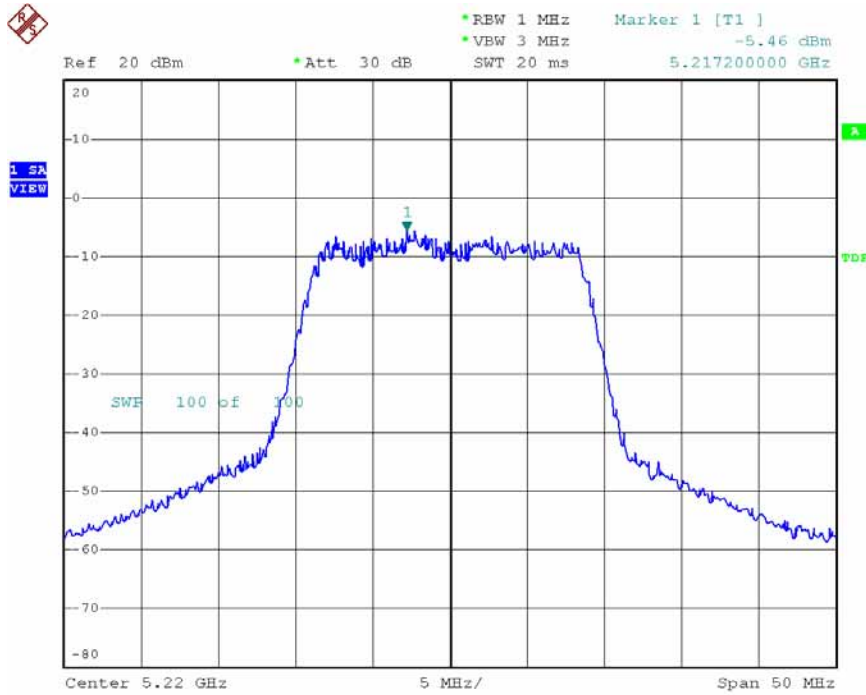
Date: 12.DEC.2007 18:27:19

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-L3 (ANT-R1)
Channel: 36



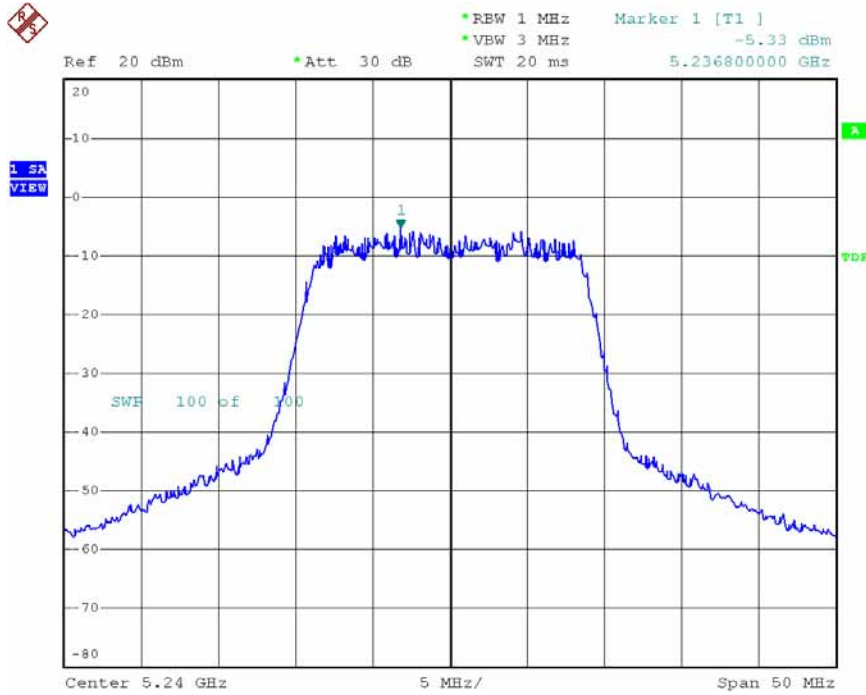
Date: 12.DEC.2007 18:59:28

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-L3 (ANT-R1)
Channel: 44



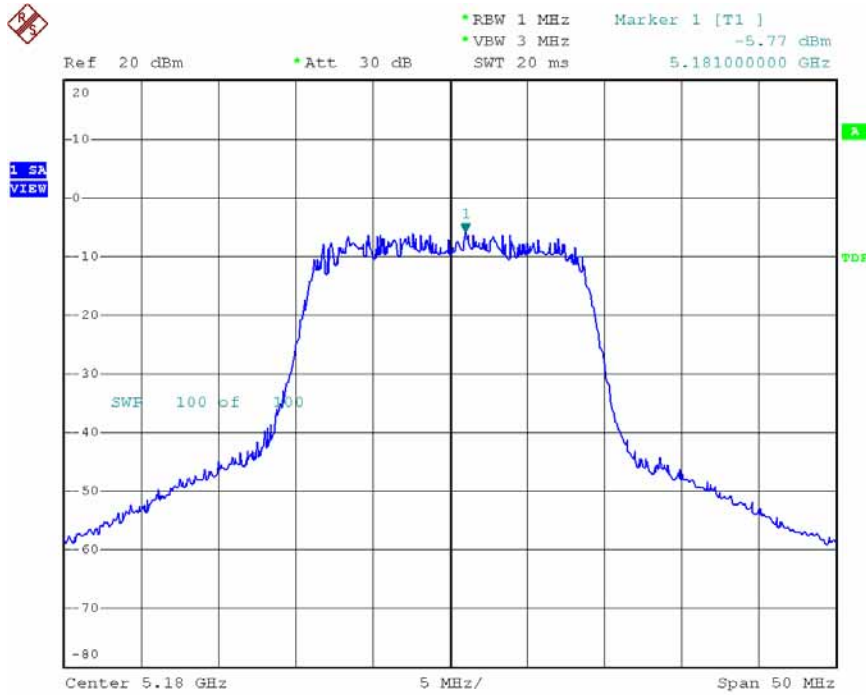
Date: 12.DEC.2007 18:58:00

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-L3 (ANT-R1)
 Channel: 48



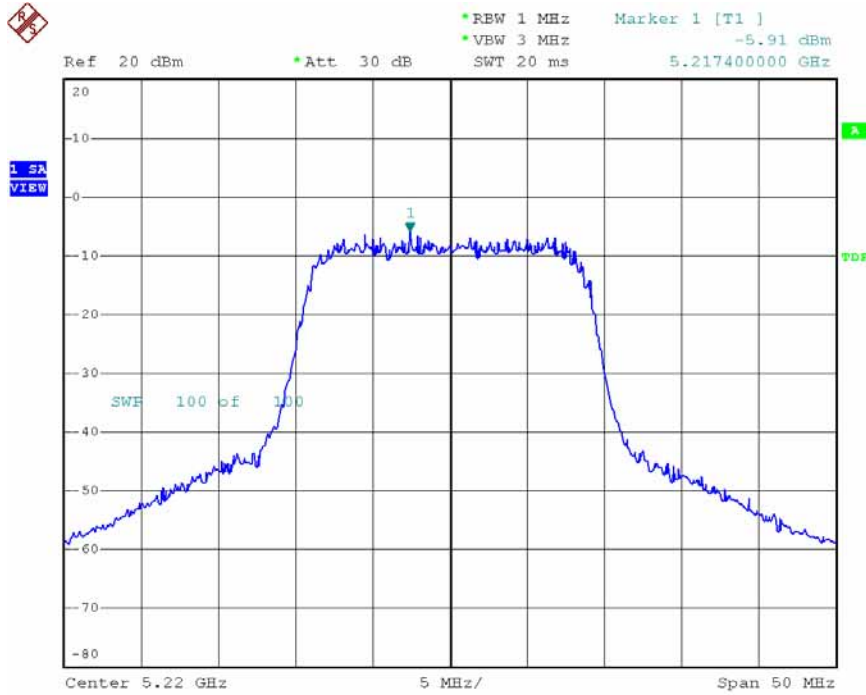
Date: 12.DEC.2007 18:57:33

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-L3 (ANT-L3)
 Channel: 36



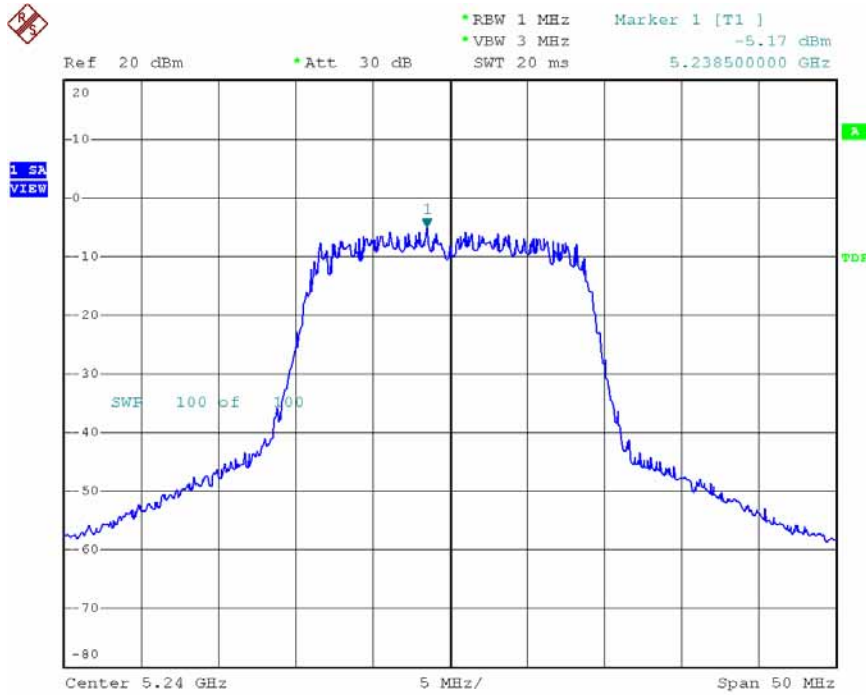
Date: 12.DEC.2007 18:59:05

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-L3 (ANT-L3)
 Channel: 44



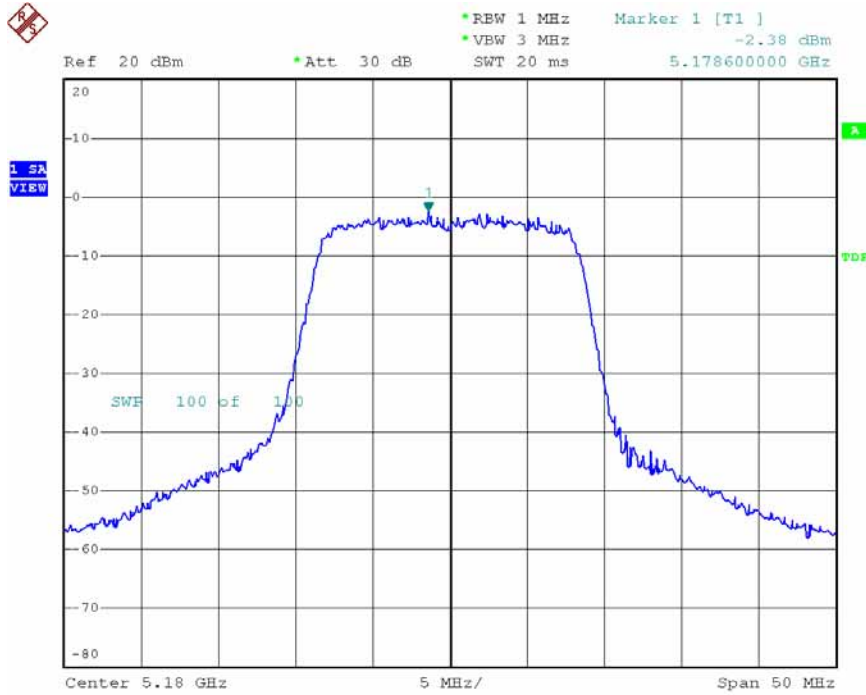
Date: 12.DEC.2007 18:58:26

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-L3 (ANT-L3)
 Channel: 48



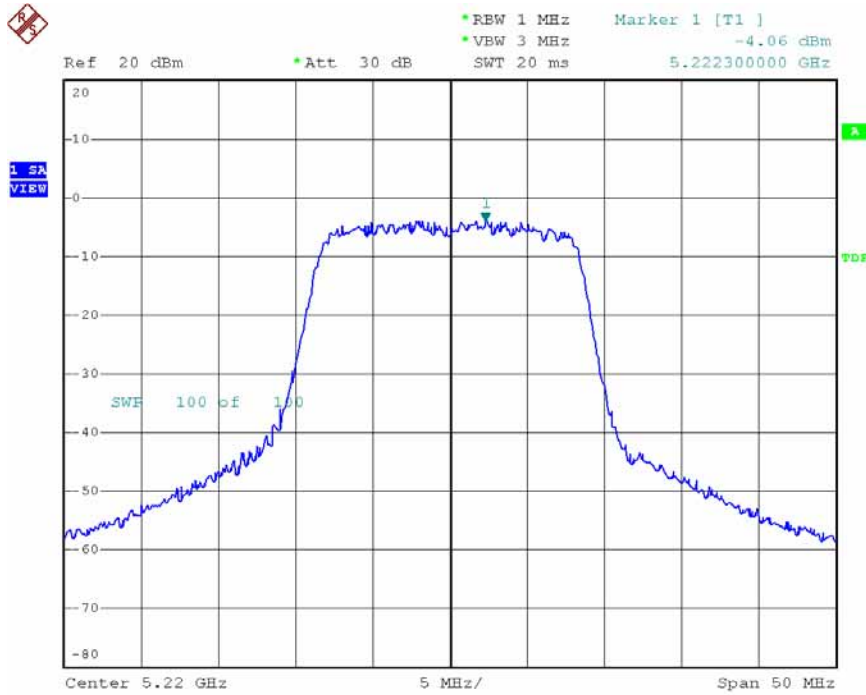
Date: 12.DEC.2007 18:57:02

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-R3 (ANT-R1)
 Channel: 36



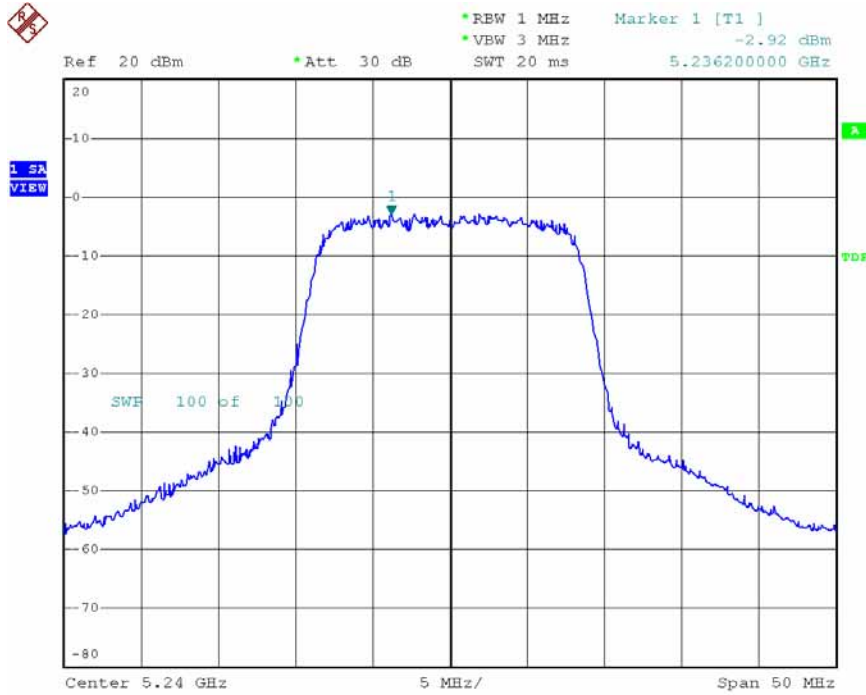
Date: 12.DEC.2007 17:08:15

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-R3 (ANT-R1)
 Channel: 44



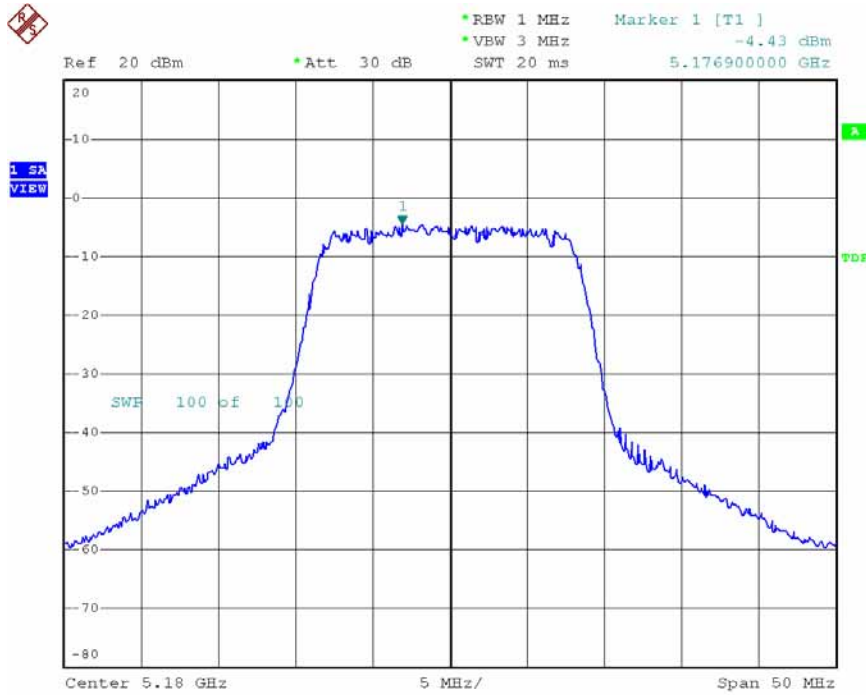
Date: 12.DEC.2007 17:08:58

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-R3 (ANT-R1)
 Channel: 48



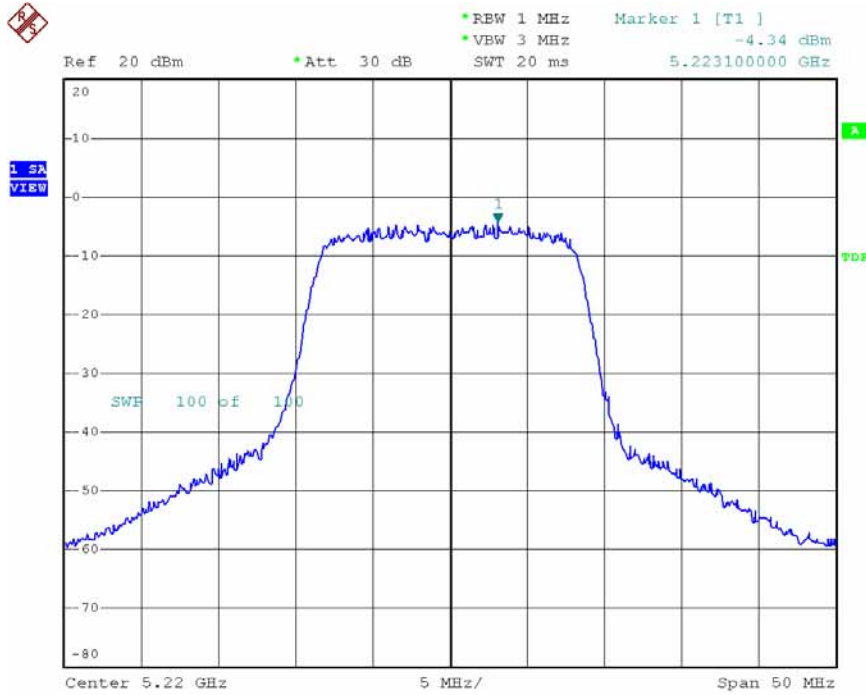
Date: 12.DEC.2007 17:10:15

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-R3 (ANT-R3)
 Channel: 36



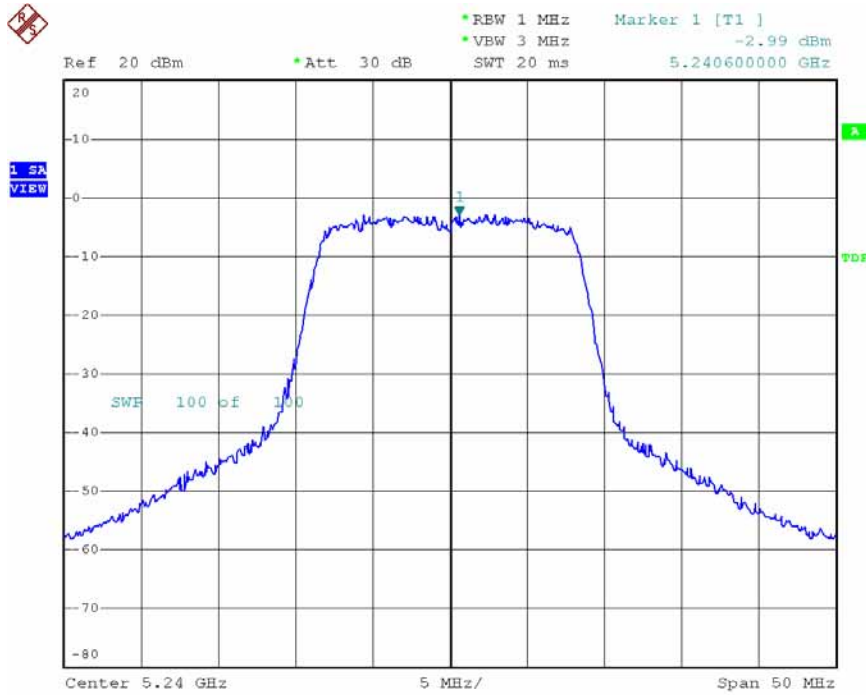
Date: 12.DEC.2007 17:07:49

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-R3 (ANT-R3)
Channel: 44



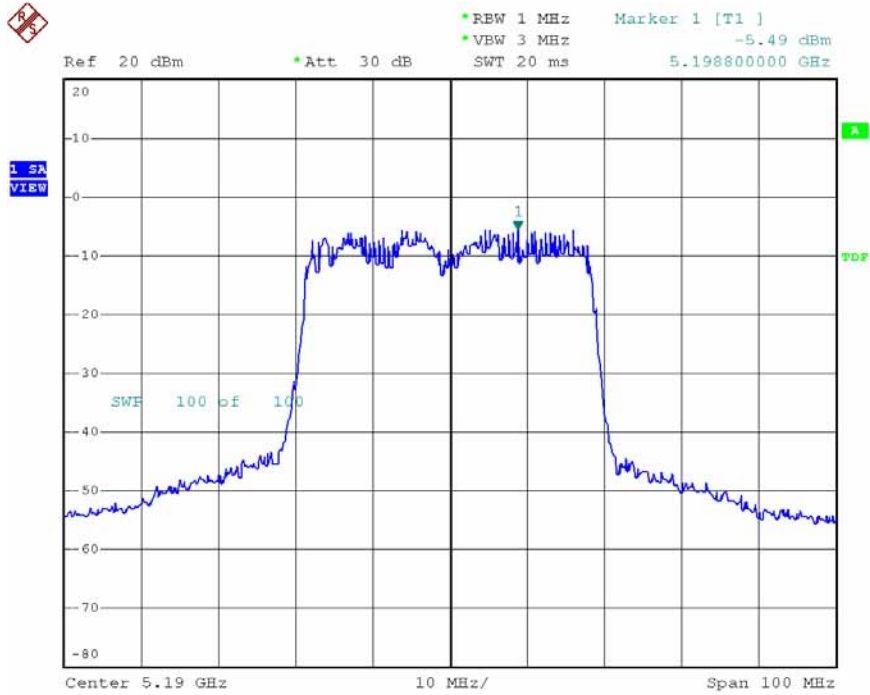
Date: 12.DEC.2007 17:09:19

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-R3 (ANT-R3)
Channel: 48



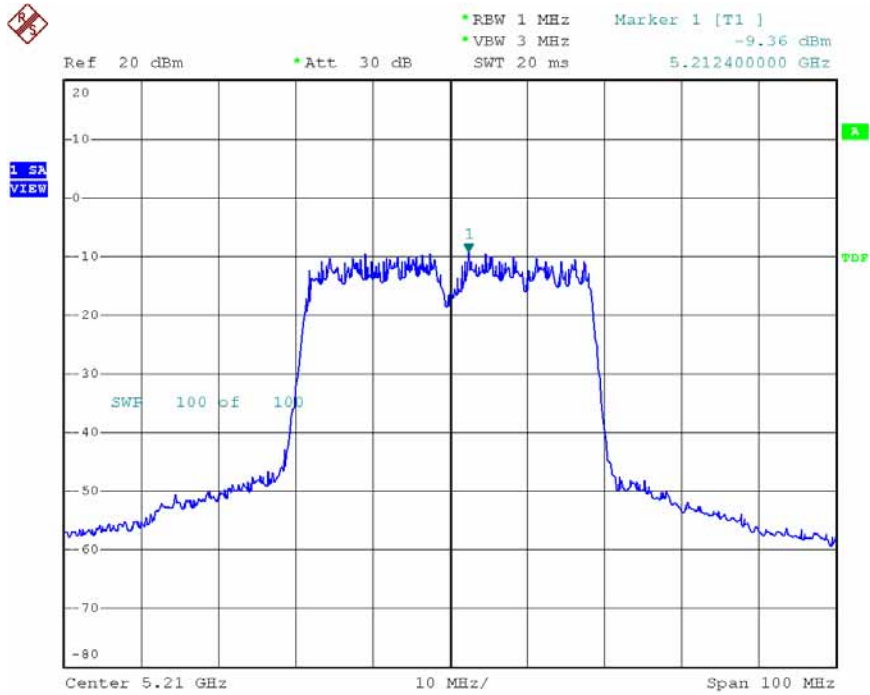
Date: 12.DEC.2007 17:09:48

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-L3 (ANT-L1)
 Channel: 38



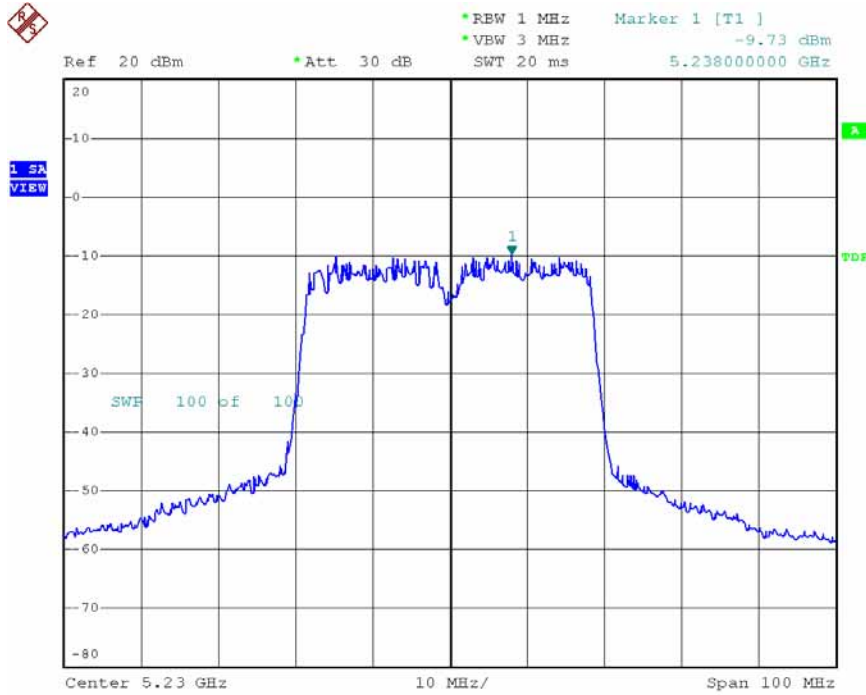
Date: 24.DEC.2007 17:07:28

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-L3 (ANT-L1)
 Channel: 42



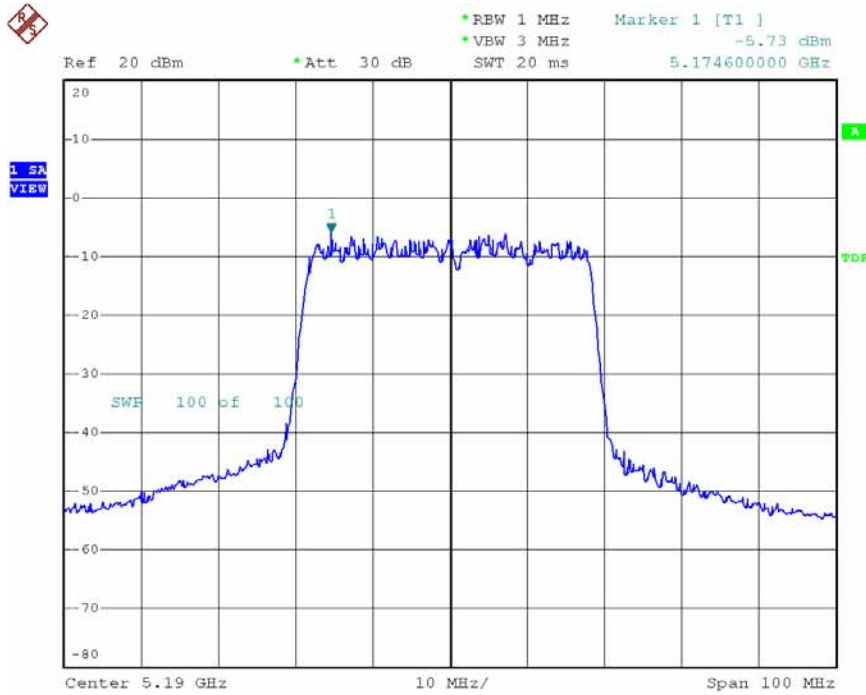
Date: 13.DEC.2007 15:31:34

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-L3 (ANT-L1)
Channel: 46



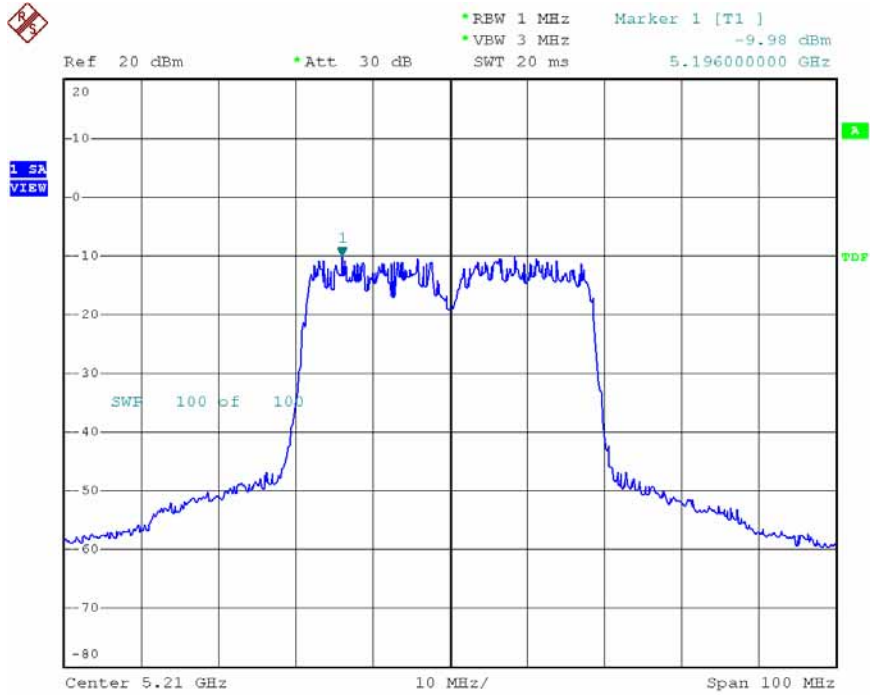
Date: 13.DEC.2007 15:30:19

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-L3 (ANT-L3)
Channel: 38



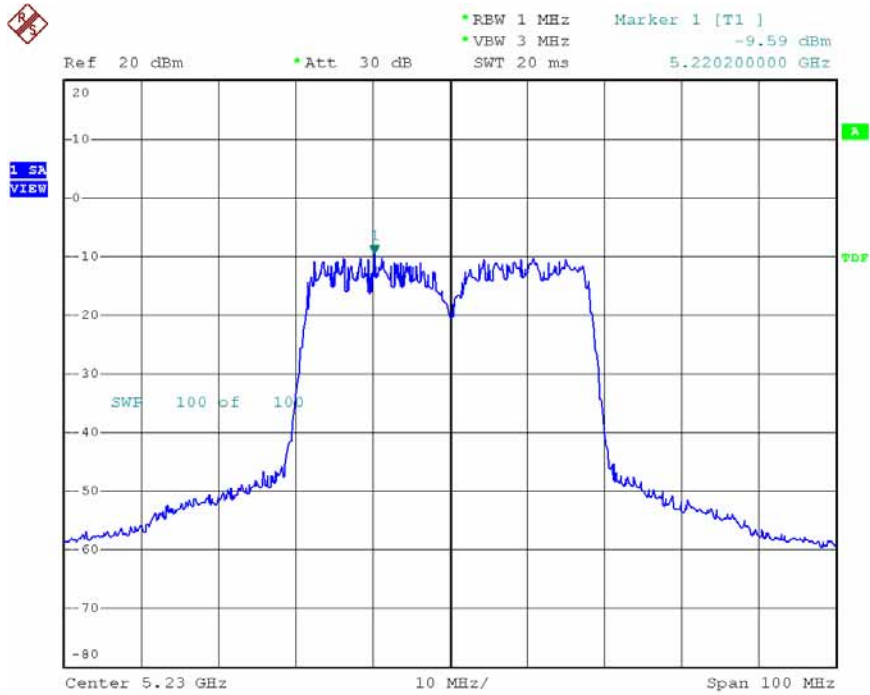
Date: 24.DEC.2007 17:06:03

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-L3 (ANT-L3)
 Channel: 42



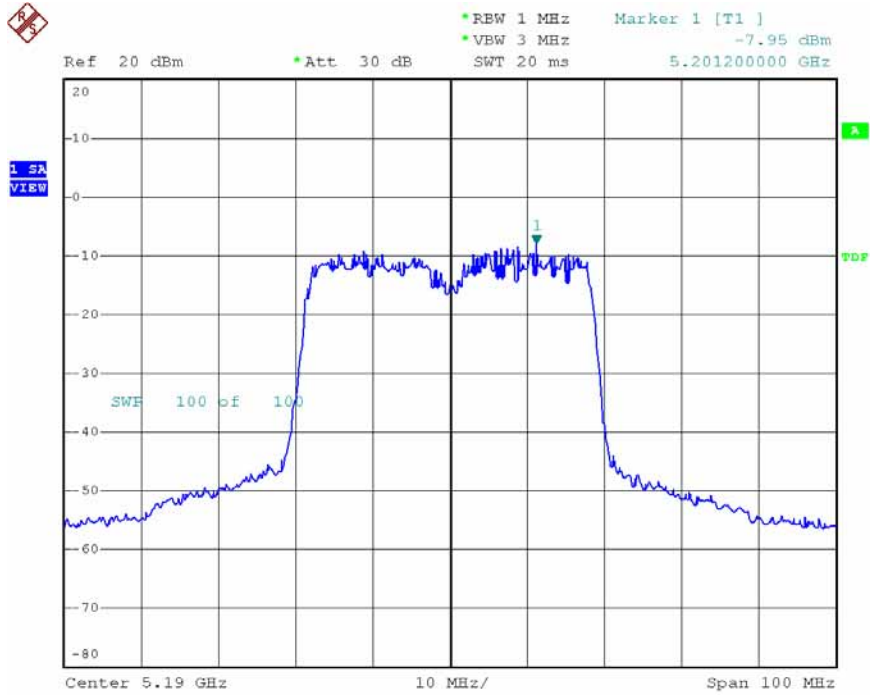
Date: 13.DEC.2007 15:32:09

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-L3 (ANT-L3)
 Channel: 46



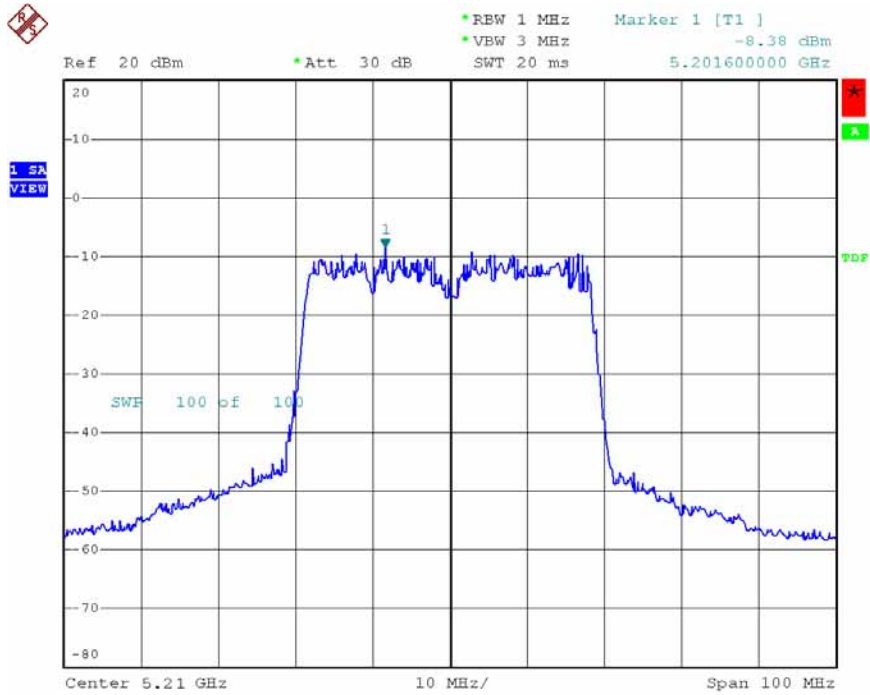
Date: 13.DEC.2007 15:29:36

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-R3 (ANT-L1)
Channel: 38



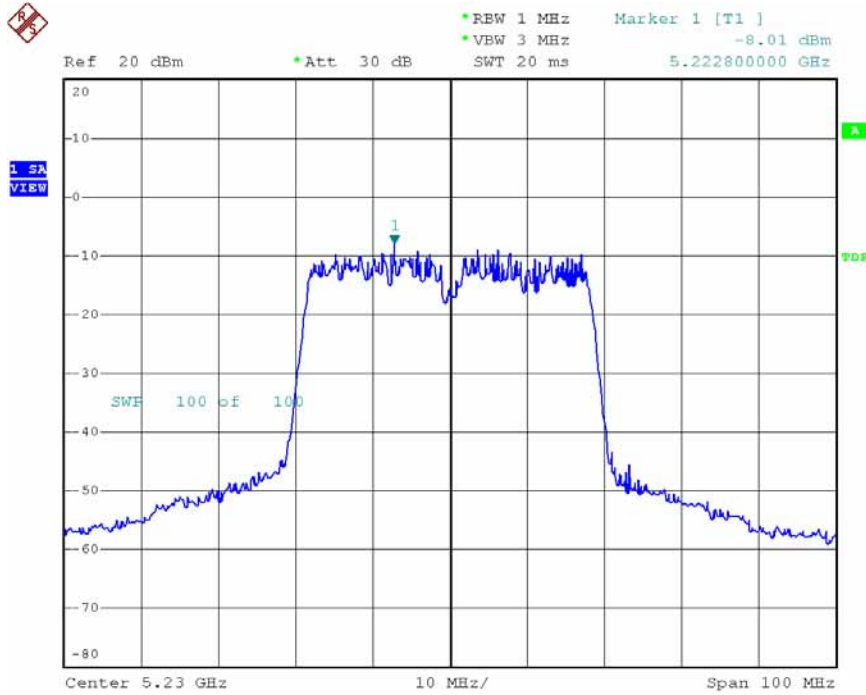
Date: 24.DEC.2007 20:57:50

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-R3 (ANT-L1)
Channel: 42



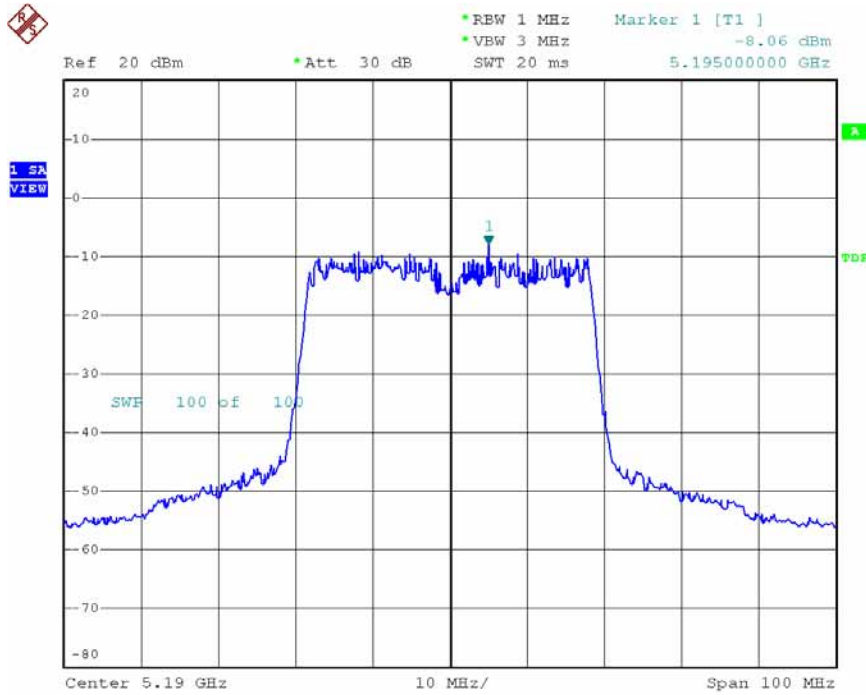
Date: 13.DEC.2007 16:28:20

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-R3 (ANT-L1)
 Channel: 46



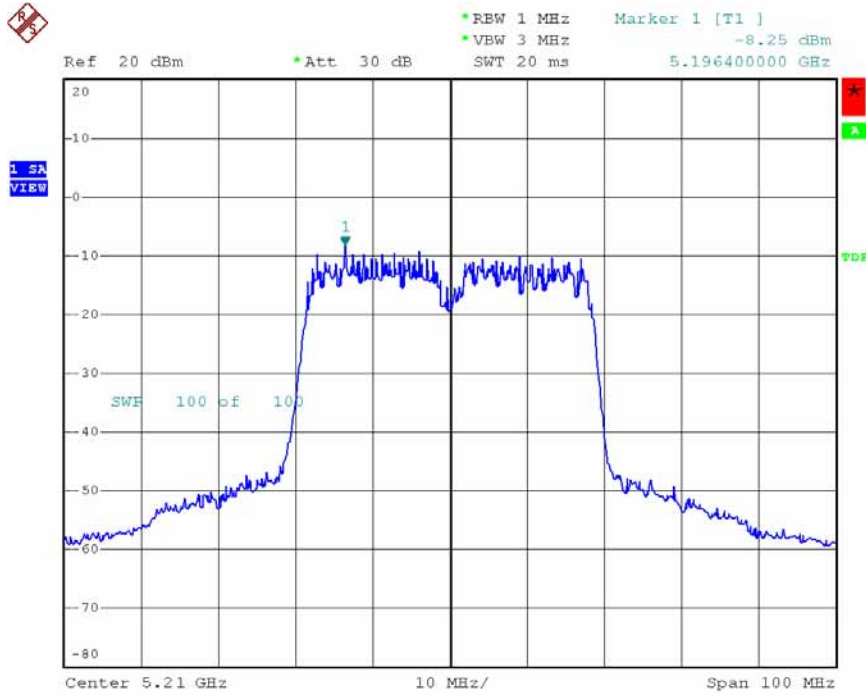
Date: 13.DEC.2007 16:26:51

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-R3 (ANT-R3)
 Channel: 38



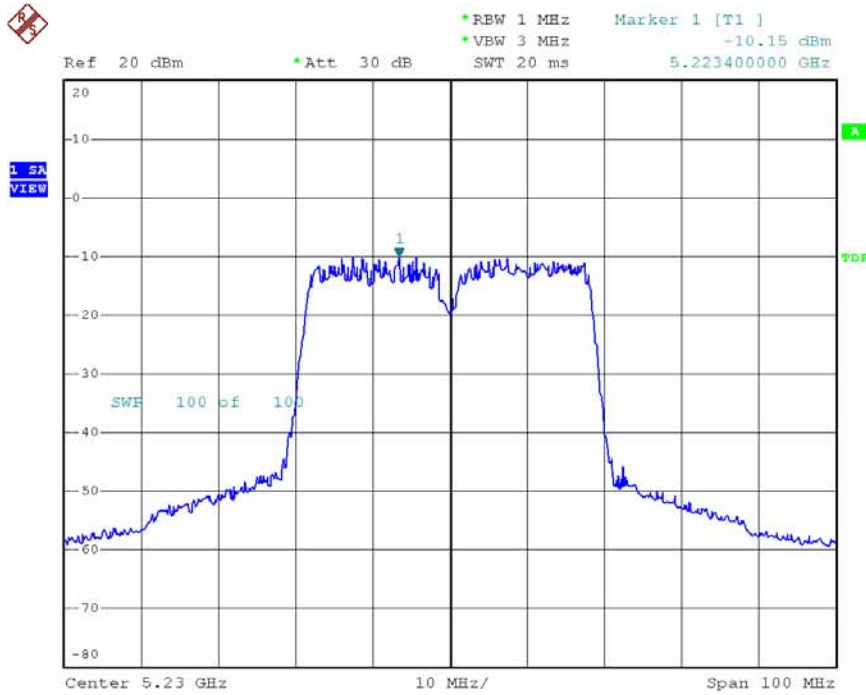
Date: 24.DEC.2007 20:58:08

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-R3 (ANT-R3)
 Channel: 42



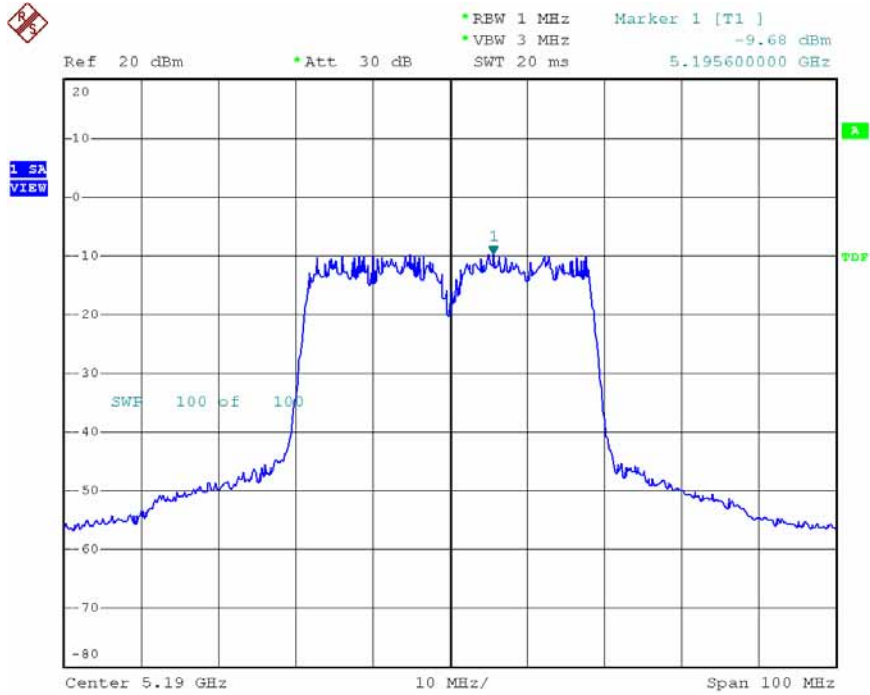
Date: 13.DEC.2007 16:27:52

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-R3 (ANT-R3)
 Channel: 46



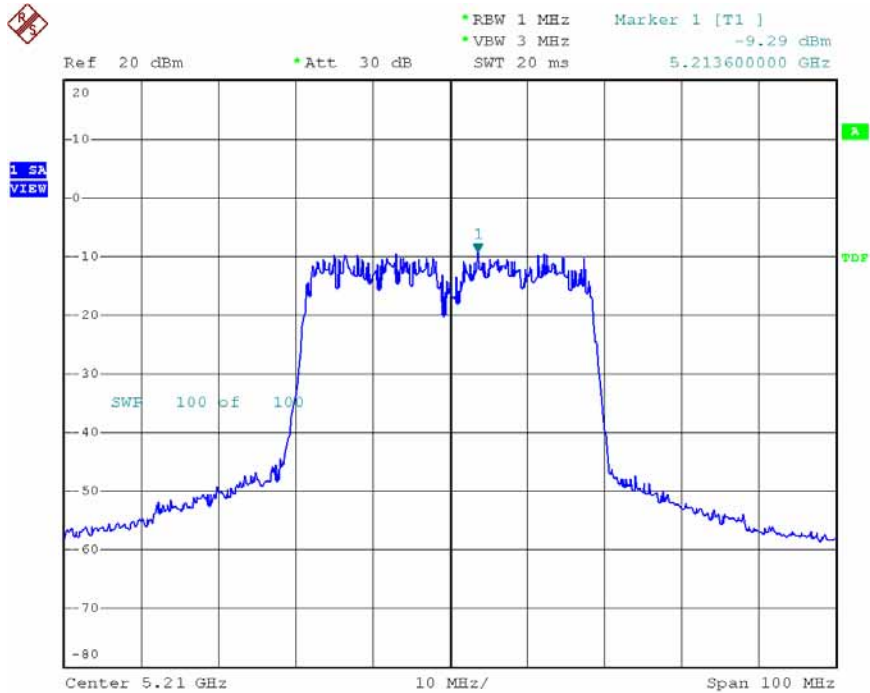
Date: 13.DEC.2007 16:27:27

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-L3 (ANT-R1)
 Channel: 38



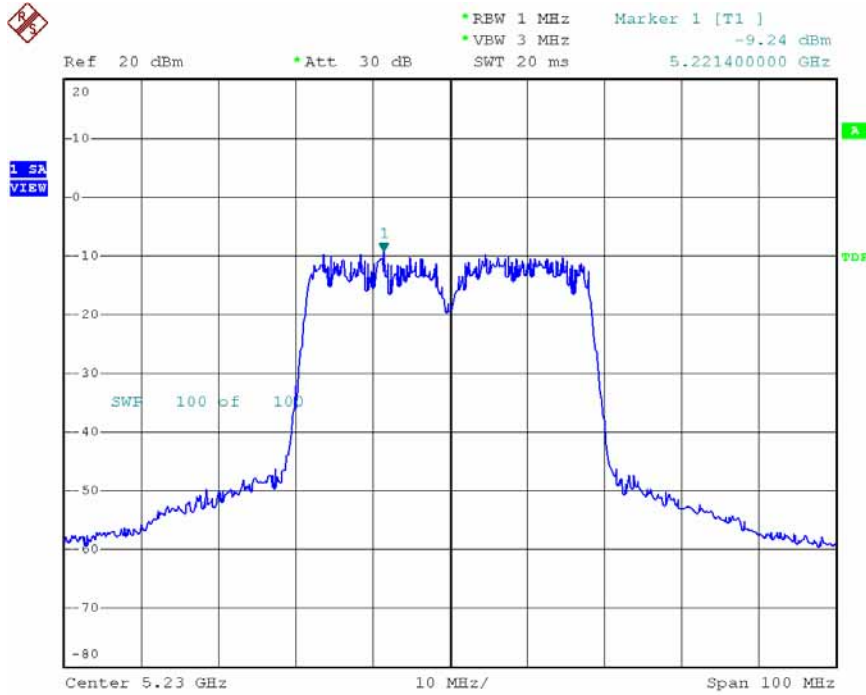
Date: 24.DEC.2007 20:58:43

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-L3 (ANT-R1)
 Channel: 42



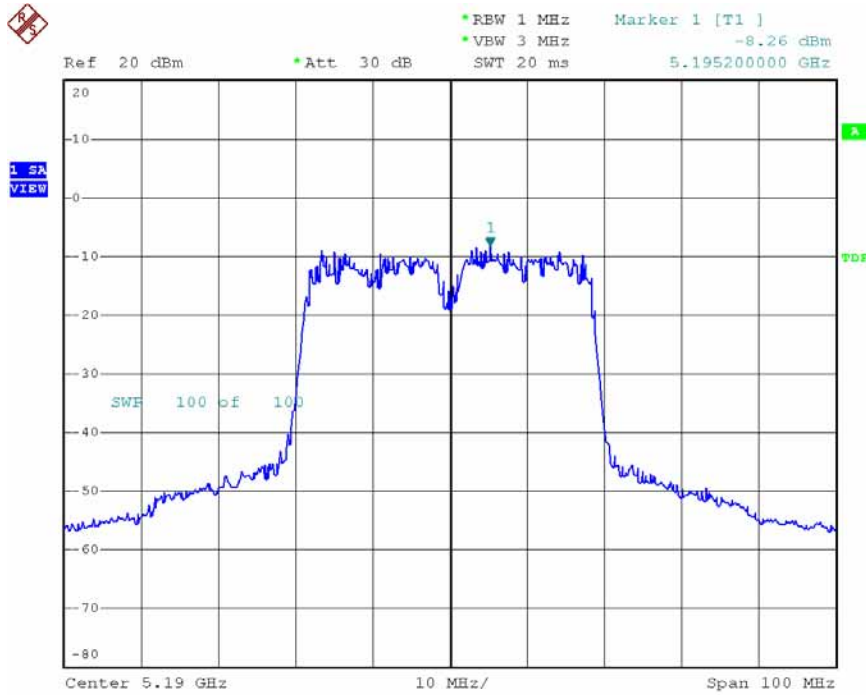
Date: 13.DEC.2007 17:18:04

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-L3 (ANT-R1)
 Channel: 46



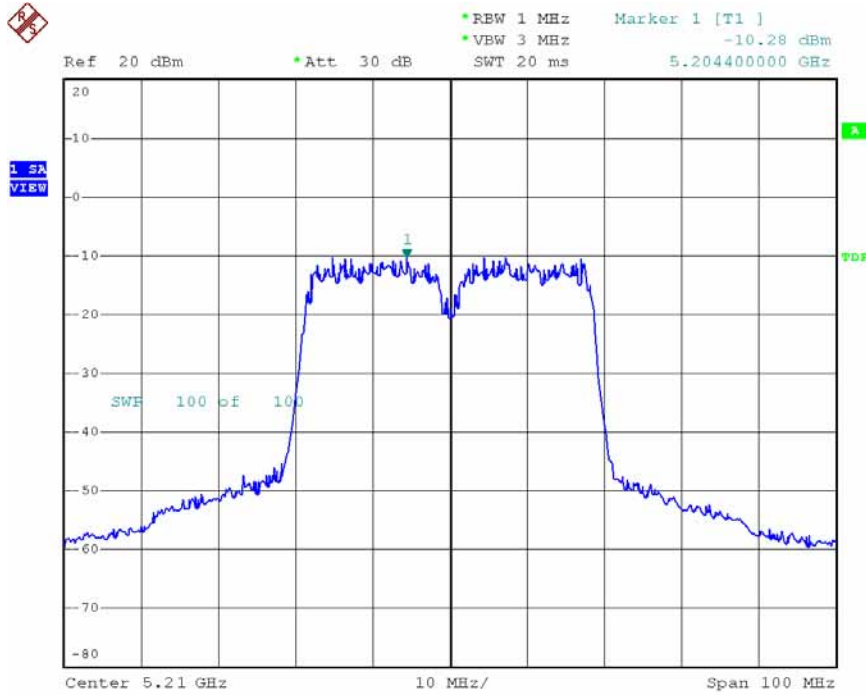
Date: 13.DEC.2007 17:17:02

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-L3 (ANT-L3)
 Channel: 38



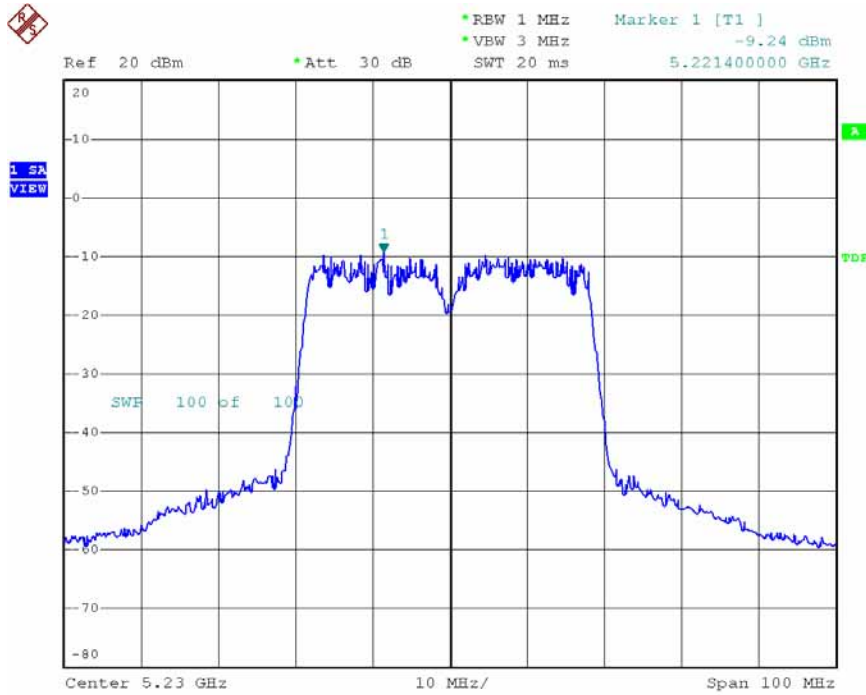
Date: 24.DEC.2007 20:59:02

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-L3 (ANT-L3)
 Channel: 42



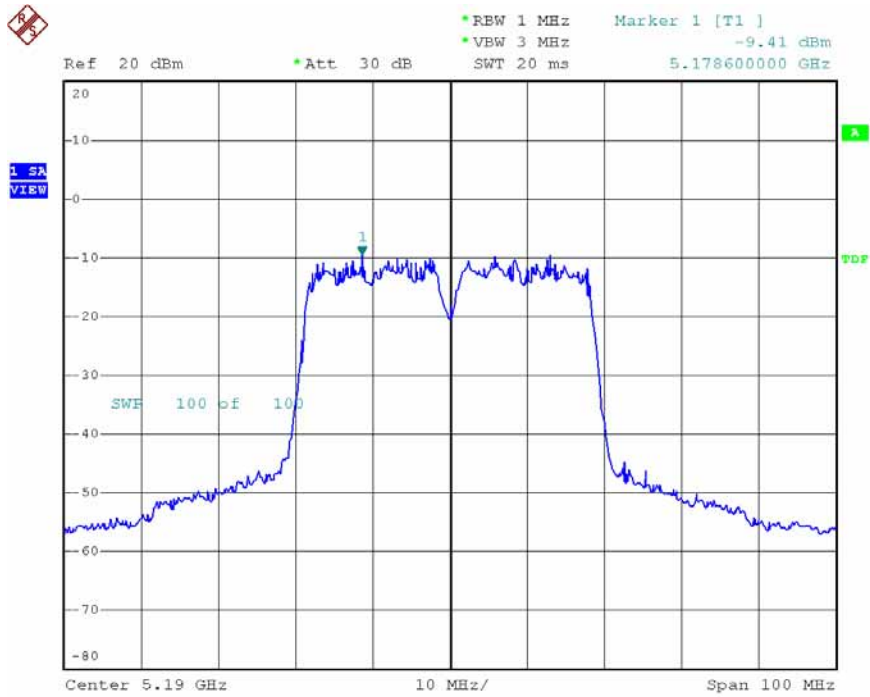
Date: 13.DEC.2007 17:17:27

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-L3 (ANT-L3)
 Channel: 46



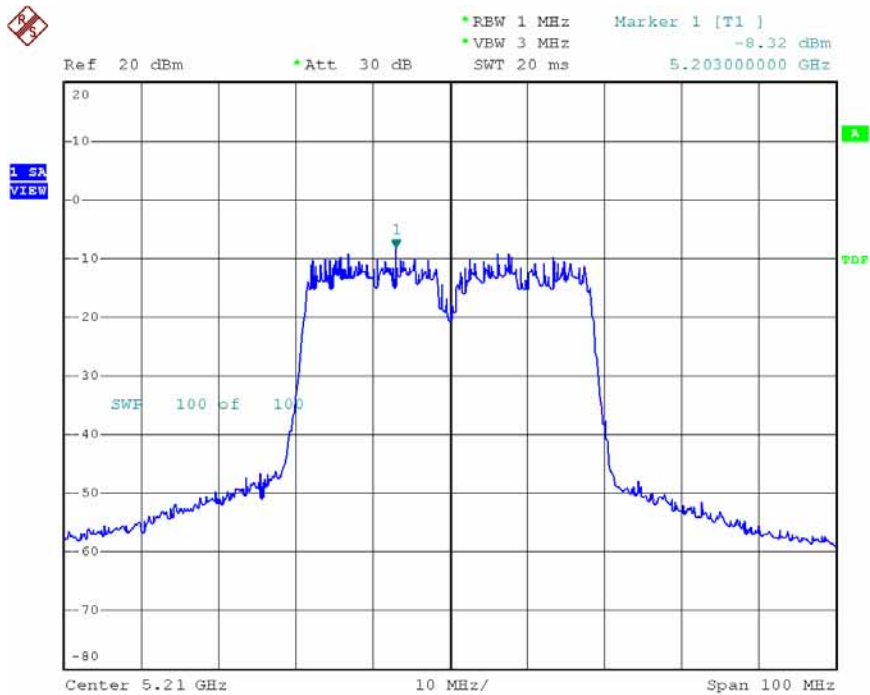
Date: 13.DEC.2007 17:17:02

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-R3 (ANT-R1)
 Channel: 38



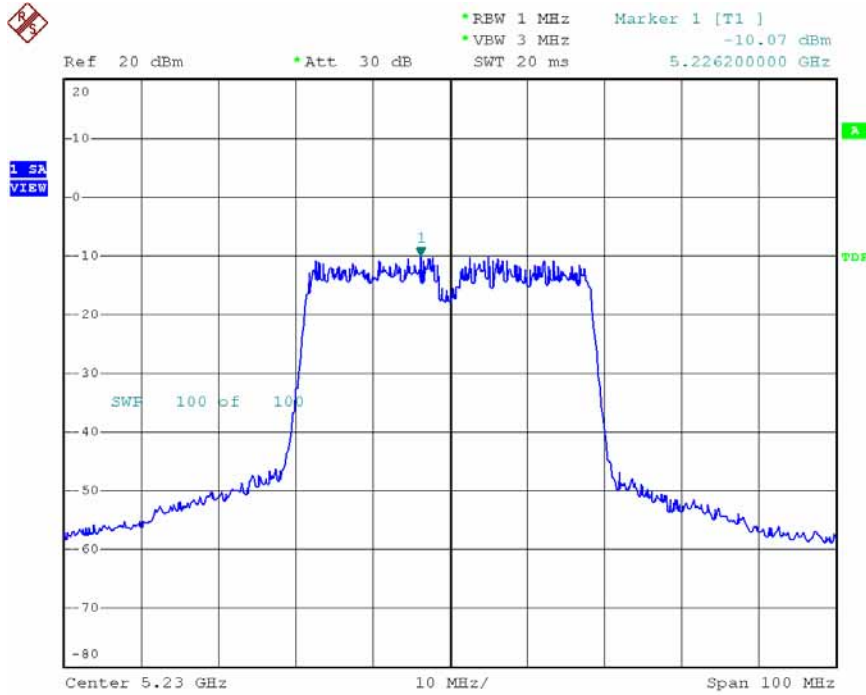
Date: 24.DEC.2007 20:56:57

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-R3 (ANT-R1)
 Channel: 42



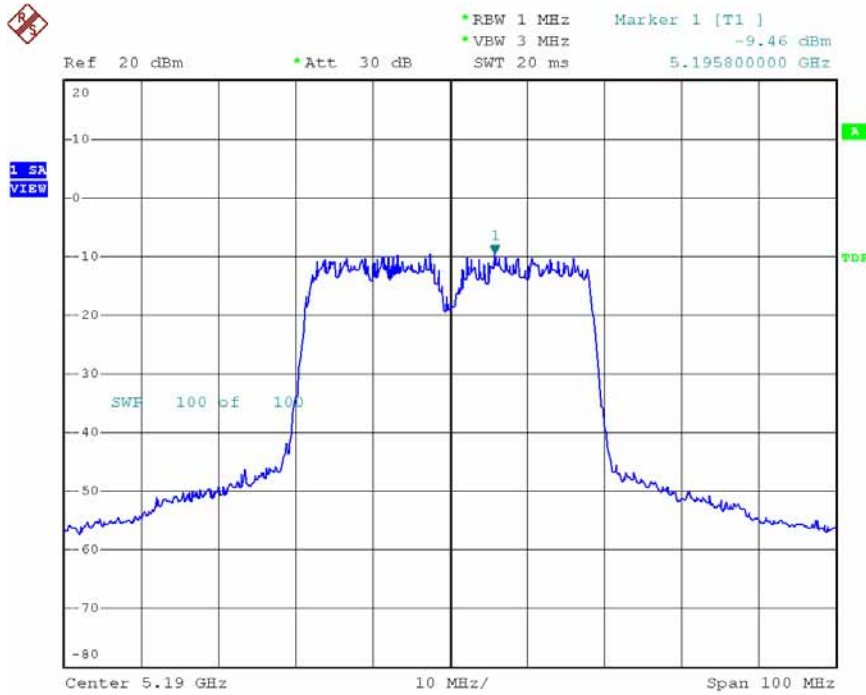
Date: 13.DEC.2007 14:34:50

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-R3 (ANT-R1)
 Channel: 46



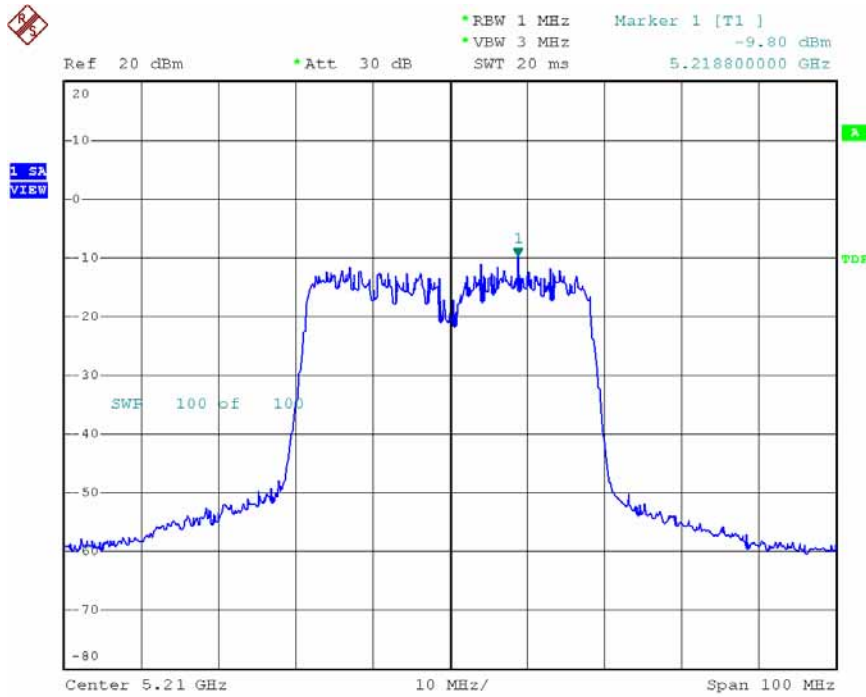
Date: 13.DEC.2007 14:32:46

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-R3 (ANT-R3)
 Channel: 38



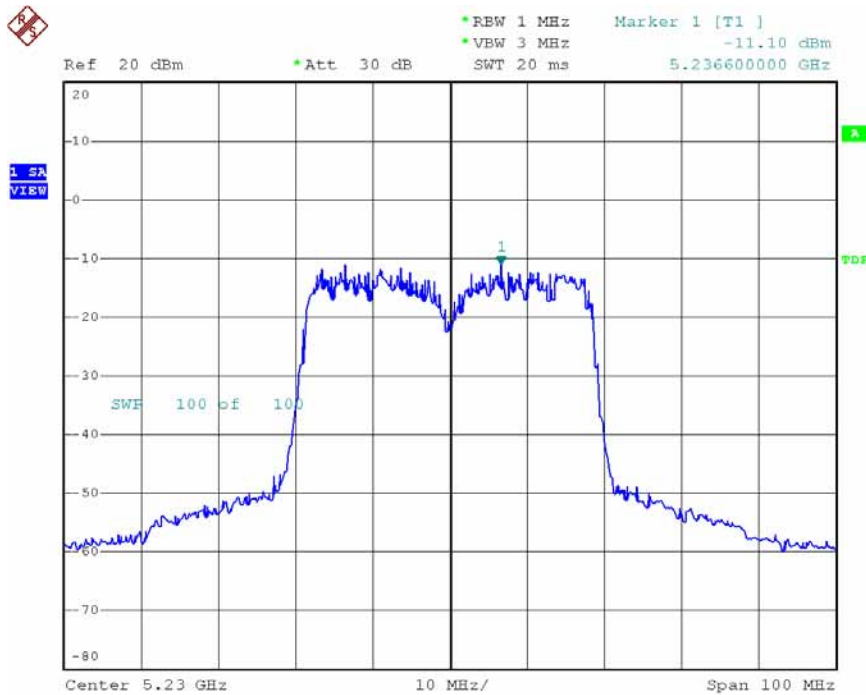
Date: 24.DEC.2007 20:57:16

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-R3 (ANT-R3)
 Channel: 42



Date: 13.DEC.2007 14:34:21

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-R3 (ANT-R3)
 Channel: 46



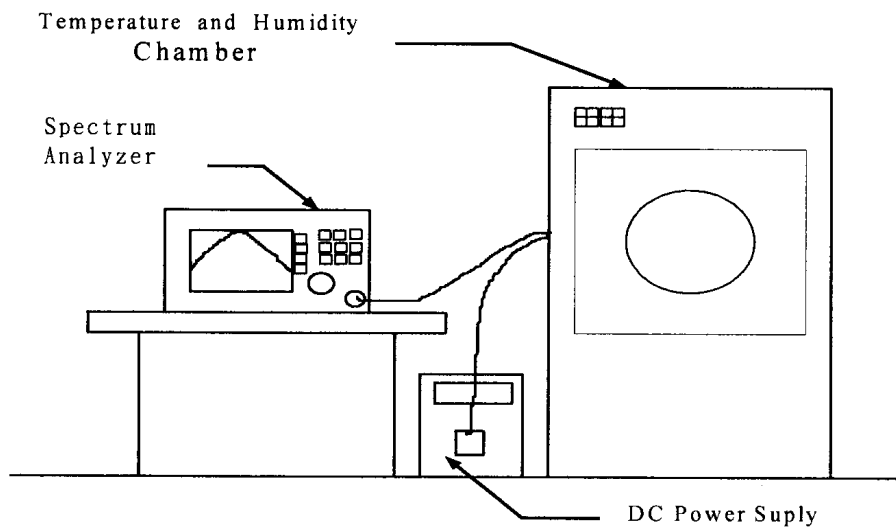
Date: 13.DEC.2007 14:33:45

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 | Model No. | Manufacturer | Serial No. | Calibration Date | Valid Date. |
|----------------------|-----------|--------------|-------------|------------------|-------------|
| Spectrum Analyzer | FSP40 | R&S | 100047 | 2007/01/23 | 2008/01/22 |
| Temperature Chamber | TMJ-9712 | T MACHINE | T-12-040111 | 2007/01/24 | 2008/01/23 |
| DC Power Supply | GPD-3030 | GM | 7020936 | N/A | N/A |
| AC POWER CONVERTER | AFC-11005 | APC | F103120008 | N/A | N/A |

9.4. Test Result and Data

| Operating frequency: 5240 MHz | | | | | | | |
|-------------------------------|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Temp (°C) | Power supply (V) | 2 minute | | 5 minute | | 10 minute | |
| | | (MHz) | (%) | (MHz) | (%) | (MHz) | (%) |
| 50 | 93.5 | 5239.9584 | -0.000794 | 5239.9242 | -0.001447 | 5239.9893 | -0.000204 |
| | 110 | 5239.9753 | -0.000471 | 5239.9483 | -0.000987 | 5239.9985 | -0.000029 |
| | 126.5 | 5239.9884 | -0.000221 | 5239.9946 | -0.000103 | 5239.9744 | -0.000489 |
| 40 | 93.5 | 5239.9876 | -0.000237 | 5239.9855 | -0.000277 | 5240.0052 | 0.000099 |
| | 110 | 5239.9768 | -0.000443 | 5240.0219 | 0.000418 | 5239.9775 | -0.000429 |
| | 126.5 | 5239.9649 | -0.000670 | 5239.9833 | -0.000319 | 5239.9789 | -0.000403 |
| 30 | 93.5 | 5239.9808 | -0.000366 | 5240.0052 | 0.000099 | 5239.9679 | -0.000613 |
| | 110 | 5239.9877 | -0.000235 | 5240.0061 | 0.000116 | 5239.9849 | -0.000288 |
| | 126.5 | 5239.9968 | -0.000061 | 5240.0127 | 0.000242 | 5239.9726 | -0.000523 |
| 20 | 93.5 | 5240.0025 | 0.000048 | 5240.0084 | 0.000160 | 5240.0032 | 0.000061 |
| | 110 | 5240.0044 | 0.000084 | 5239.9878 | -0.000233 | 5240.0102 | 0.000195 |
| | 126.5 | 5240.0073 | 0.000139 | 5240.0022 | 0.000042 | 5239.9514 | -0.000927 |
| 10 | 93.5 | 5240.0126 | 0.000240 | 5240.0169 | 0.000323 | 5240.0021 | 0.000040 |
| | 110 | 5240.0024 | 0.000046 | 5239.9898 | -0.000195 | 5240.0174 | 0.000332 |
| | 126.5 | 5240.0008 | 0.000015 | 5240.0024 | 0.000046 | 5239.9941 | -0.000113 |
| 0 | 93.5 | 5239.9747 | -0.000483 | 5239.9751 | -0.000475 | 5239.9653 | -0.000662 |
| | 110 | 5239.9846 | -0.000294 | 5239.9862 | -0.000263 | 5239.9564 | -0.000832 |
| | 126.5 | 5239.9755 | -0.000468 | 5239.9788 | -0.000405 | 5239.9744 | -0.000489 |
| -10 | 93.5 | 5240.0164 | 0.000313 | 5239.9831 | -0.000323 | 5240.0295 | 0.000563 |
| | 110 | 5240.0233 | 0.000445 | 5240.0041 | 0.000078 | 5240.0181 | 0.000345 |
| | 126.5 | 5239.9962 | -0.000073 | 5239.9876 | -0.000237 | 5239.9877 | -0.000235 |
| -20 | 93.5 | 5240.0271 | 0.000517 | 5240.0084 | 0.000160 | 5240.0168 | 0.000321 |
| | 110 | 5240.0052 | 0.000099 | 5240.0073 | 0.000139 | 5240.0272 | 0.000519 |
| | 126.5 | 5240.0143 | 0.000273 | 5240.0125 | 0.000239 | 5240.0184 | 0.000351 |
| -30 | 93.5 | 5240.0034 | 0.000065 | 5240.0034 | 0.000065 | 5240.0085 | 0.000162 |
| | 110 | 5240.0216 | 0.000412 | 5240.0032 | 0.000061 | 5240.0193 | 0.000368 |
| | 126.5 | 5240.0145 | 0.000277 | 5240.0007 | 0.000013 | 5240.0049 | 0.000094 |

Limit :

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

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 both RBW and VBW of spectrum analyzer to 100 KHz 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 | Model No. | Manufacturer | Serial No. | Calibration Date | Valid Date |
|----------------------|-----------|--------------|------------|------------------|------------|
| EMI Receiver | 85460A | HP | 3807A00454 | 2007/06/05 | 2008/06/04 |
| Spectrum Analyzer | FSP40 | R&S | 10047 | 2007/01/23 | 2008/01/22 |
| Horn Antenna | 3115 | EMCO | 31589 | 2007/03/05 | 2008/03/04 |
| Horn Antenna | 3116 | EMCO | 31970 | 2007/03/06 | 2008/03/05 |
| Bilog Antenna | CBL6112B | Schaffner | 2840 | 2007/04/26 | 2008/04/25 |
| Amplifier | 8449B | Agilent | 3008A01954 | 2007/01/12 | 2008/01/11 |
| Amplifier | 8447D | Agilent | 2944A10531 | 2007/09/26 | 2008/09/25 |
| Amplifier | PA-840 | Com-Power | 711885 | 2007/08/28 | 2008/08/27 |

10.3. Test Result and Data

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, ANT-L1

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60% Atmospheric pressure: 1008 hPa

| Channel | Frequency (MHz) | Maximum Value In Frequency (MHz) | Maximum Value (dBm) |
|---------|-----------------|----------------------------------|---------------------|
| 36 | 5180 | 5149.00 | -48.76 |

Test Mode 2: 802.11a, Transmit Rate: 6Mbps, ANT-L3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60% Atmospheric pressure: 1008 hPa

| Channel | Frequency (MHz) | Maximum Value In Frequency (MHz) | Maximum Value (dBm) |
|---------|-----------------|----------------------------------|---------------------|
| 36 | 5180 | 5136.60 | -53.32 |

Test Mode 3: 802.11a, Transmit Rate: 6Mbps, ANT-R1

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60% Atmospheric pressure: 1008 hPa

| Channel | Frequency (MHz) | Maximum Value In Frequency (MHz) | Maximum Value (dBm) |
|---------|-----------------|----------------------------------|---------------------|
| 36 | 5180 | 5149.60 | -49.51 |

Test Mode 4: 802.11a, Transmit Rate: 6Mbps, ANT-R3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60% Atmospheric pressure: 1008 hPa

| Channel | Frequency (MHz) | Maximum Value In Frequency (MHz) | Maximum Value (dBm) |
|---------|-----------------|----------------------------------|---------------------|
| 36 | 5180 | 5149.20 | -50.76 |

Test Mode 5: 802.11Draft n, 20MHz, Transmit Rate: 130Mbps, ANT-L1+ ANT-L3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60% Atmospheric pressure: 1008 hPa

| Channel | Frequency (MHz) | Maximum Value In Frequency (MHz) | Maximum Value (dBm) | Antenna Remarks |
|---------|-----------------|----------------------------------|---------------------|-----------------|
| 36 | 5180 | 5147.40 | -52.96 | L1 |
| 36 | 5180 | 5117.20 | -54.15 | L3 |

Test Mode 6: 802.11Draft n, 20MHz, Transmit Rate: 130Mbps, ANT-L1+ ANT-R3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60% Atmospheric pressure: 1008 hPa

| Channel | Frequency (MHz) | Maximum Value In Frequency (MHz) | Maximum Value (dBm) | Antenna Remarks |
|---------|-----------------|----------------------------------|---------------------|-----------------|
| 36 | 5180 | 5143.00 | -53.37 | L1 |
| 36 | 5180 | 5117.20 | -54.23 | R3 |

Test Mode 7: 802.11Draft n, 20MHz, Transmit Rate: 130Mbps, ANT-R1+ ANT-L3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60% Atmospheric pressure: 1008 hPa

| Channel | Frequency (MHz) | Maximum Value In Frequency (MHz) | Maximum Value (dBm) | Antenna Remarks |
|---------|-----------------|----------------------------------|---------------------|-----------------|
| 36 | 5180 | 5132.20 | -54.05 | R1 |
| 36 | 5180 | 5149.40 | -54.13 | L3 |

Test Mode 8: 802.11Draft n, 20MHz, Transmit Rate: 130Mbps, ANT-R1+ ANT-R3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60% Atmospheric pressure: 1008 hPa

| Channel | Frequency (MHz) | Maximum Value In Frequency (MHz) | Maximum Value (dBm) | Antenna Remarks |
|---------|-----------------|----------------------------------|---------------------|-----------------|
| 36 | 5180 | 5127.00 | -54.77 | R1 |
| 36 | 5180 | 5102.00 | -54.70 | R3 |

Test Mode 9: 802.11Draft n, 40MHz, Transmit Rate: 270Mbps, ANT-L1+ ANT-L3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60% Atmospheric pressure: 1008 hPa

| Channel | Frequency (MHz) | Maximum Value In Frequency (MHz) | Maximum Value (dBm) | Antenna Remarks |
|---------|-----------------|----------------------------------|---------------------|-----------------|
| 38 | 5190 | 5149.60 | -36.66 | L1 |
| 38 | 5190 | 5149.80 | -37.20 | L3 |

Test Mode 10: 802.11Draft n, 40MHz, Transmit Rate: 270Mbps, ANT-L1+ ANT-R3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60% Atmospheric pressure: 1008 hPa

| Channel | Frequency (MHz) | Maximum Value In Frequency (MHz) | Maximum Value (dBm) | Antenna Remarks |
|---------|-----------------|----------------------------------|---------------------|-----------------|
| 38 | 5190 | 5147.80 | -34.49 | L1 |
| 38 | 5190 | 5147.80 | -33.80 | R3 |

Test Mode 11: 802.11Draft n, 40MHz, Transmit Rate: 270Mbps, ANT-R1+ ANT-L3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60% Atmospheric pressure: 1008 hPa

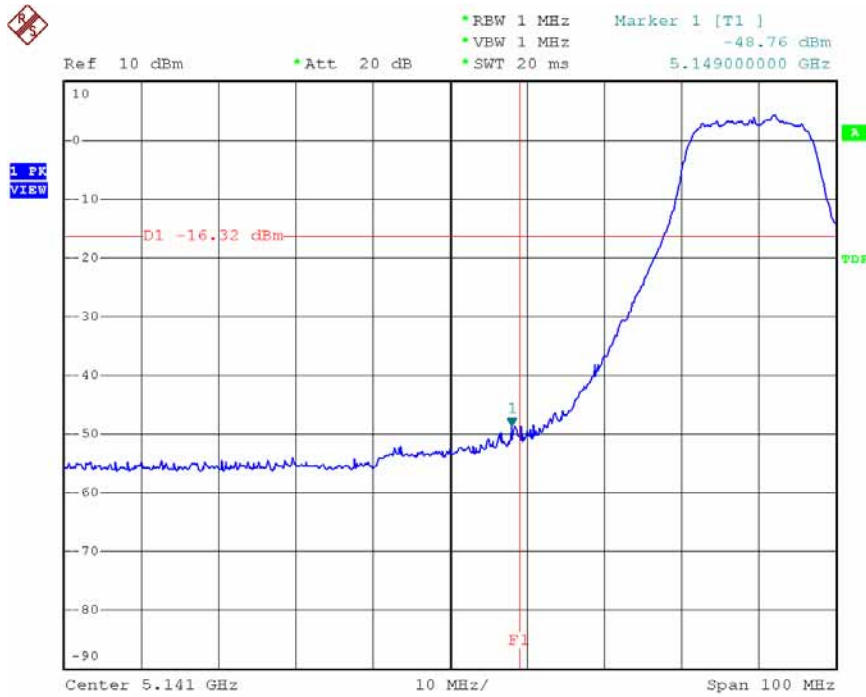
| Channel | Frequency (MHz) | Maximum Value In Frequency (MHz) | Maximum Value (dBm) | Antenna Remarks |
|---------|-----------------|----------------------------------|---------------------|-----------------|
| 38 | 5190 | 5149.80 | -35.76 | R1 |
| 38 | 5190 | 5149.80 | -34.58 | L3 |

Test Mode 12: 802.11Draft n, 40MHz, Transmit Rate: 270Mbps, ANT-R1+ ANT-R3

Test Date: Dec. 12, 2007 Temperature: 23 Humidity: 60% Atmospheric pressure: 1008 hPa

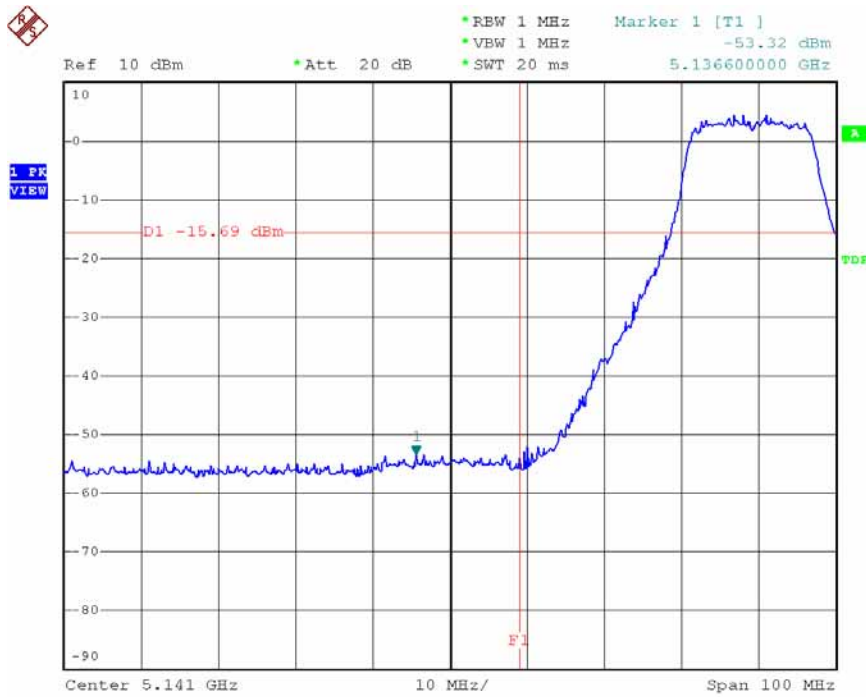
| Channel | Frequency (MHz) | Maximum Value In Frequency (MHz) | Maximum Value (dBm) | Antenna Remarks |
|---------|-----------------|----------------------------------|---------------------|-----------------|
| 38 | 5190 | 5149.60 | -35.04 | R1 |
| 38 | 5190 | 5149.80 | -33.70 | R3 |

Modulation Standard: 802.11a (6Mbps) – ANT-L1
 Channel: 36



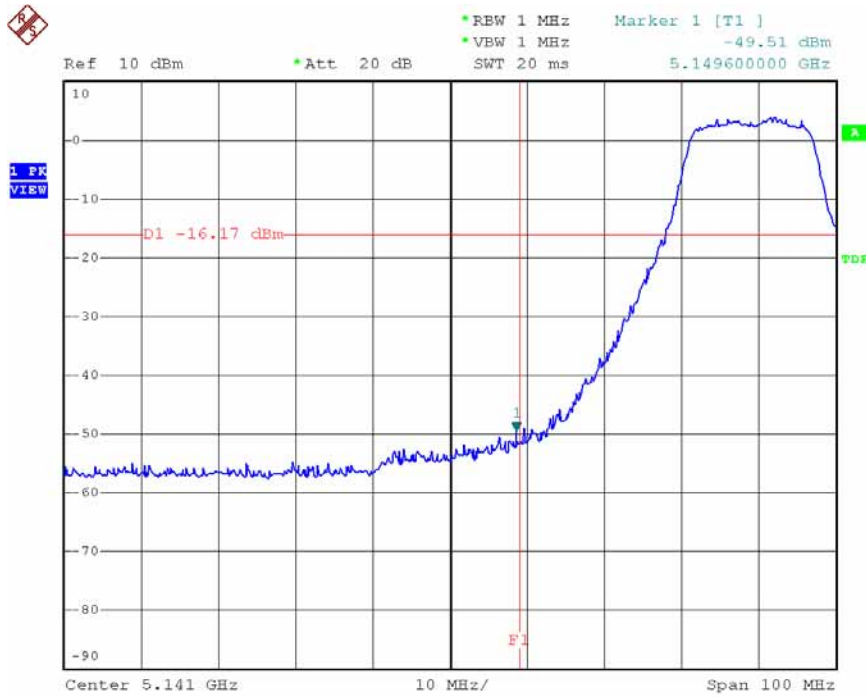
Date: 10.DEC.2007 13:54:07

Modulation Standard: 802.11a (6Mbps) – ANT-L3
 Channel: 36



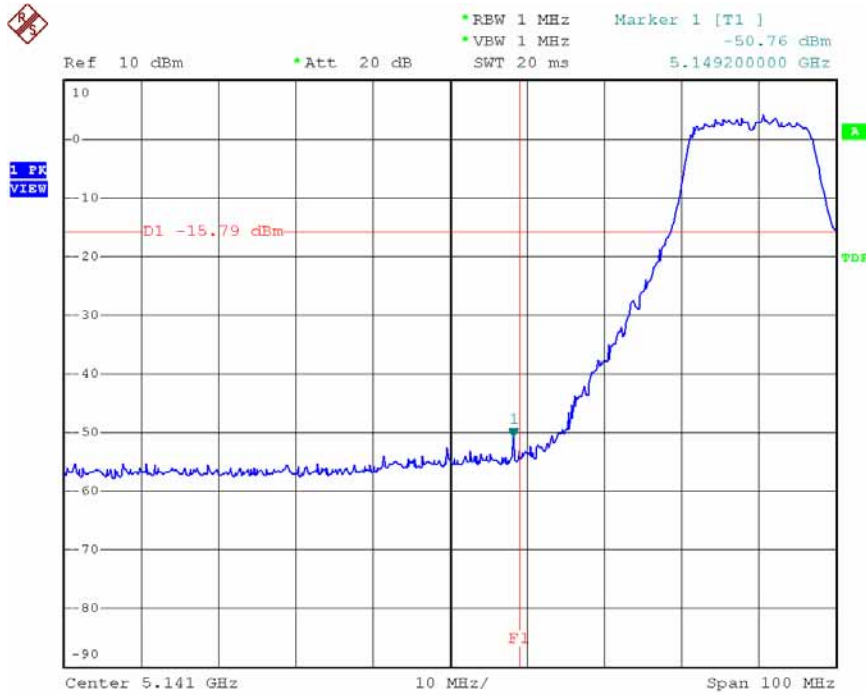
Date: 7.DEC.2007 18:43:26

Modulation Standard: 802.11a (6Mbps) – ANT-R1
 Channel: 36



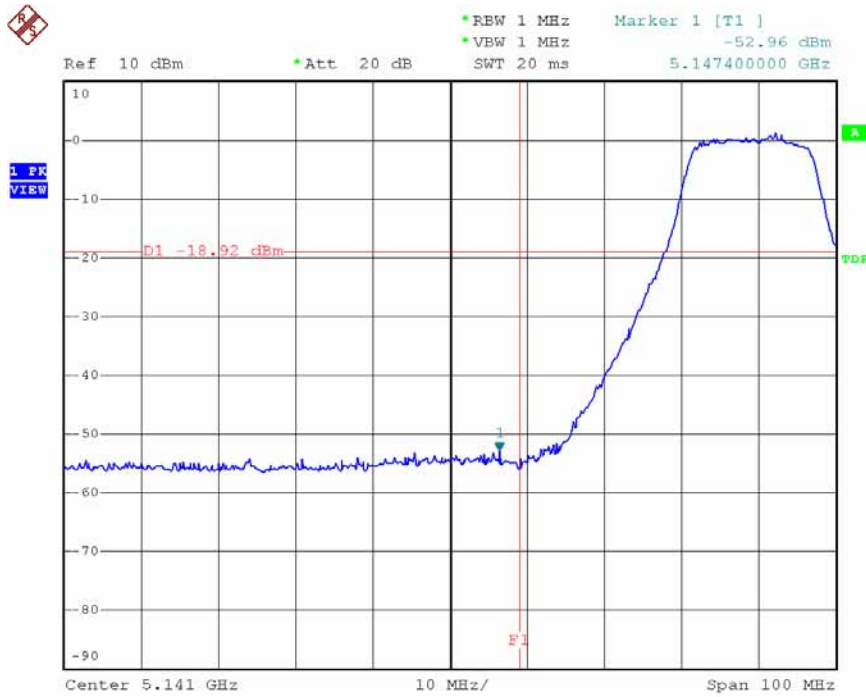
Date: 10.DEC.2007 15:40:12

Modulation Standard: 802.11a (6Mbps) – ANT-R3
 Channel: 36



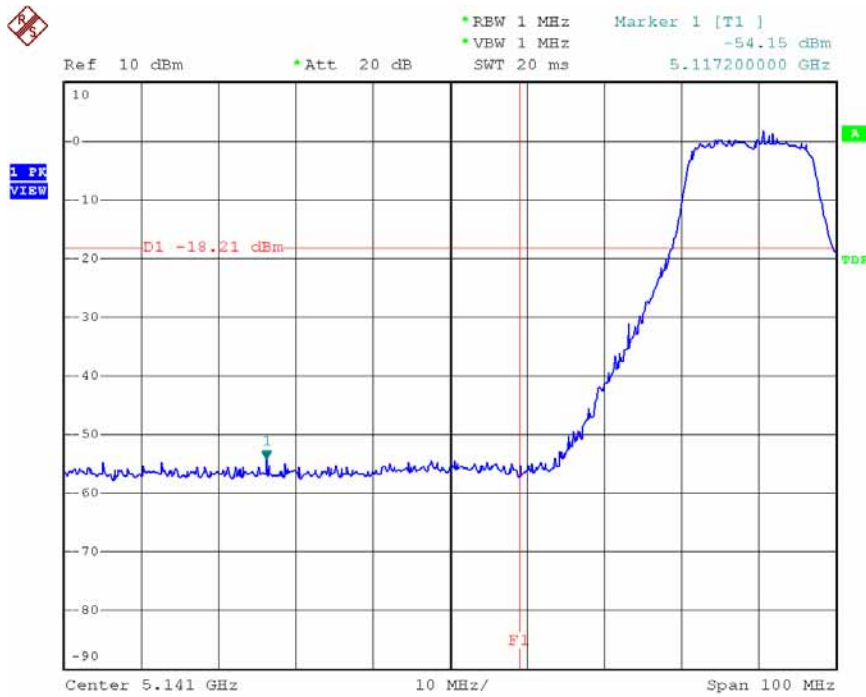
Date: 8.DEC.2007 11:12:58

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-L1+ ANT-L3 (ANT-L1)
 Channel: 36



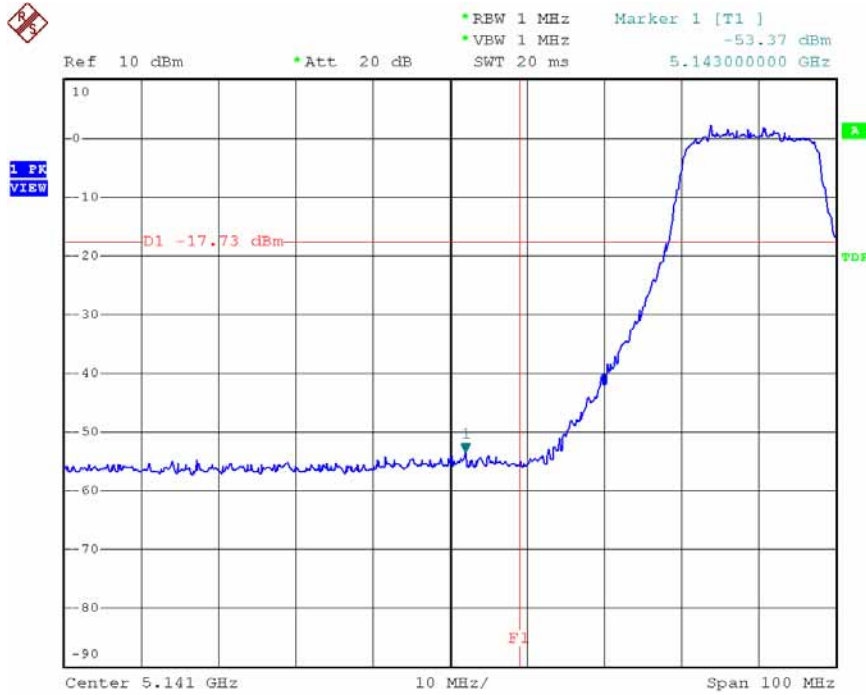
Date: 10.DEC.2007 21:11:17

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-L1+ ANT-L3 (ANT-L3)
 Channel: 36



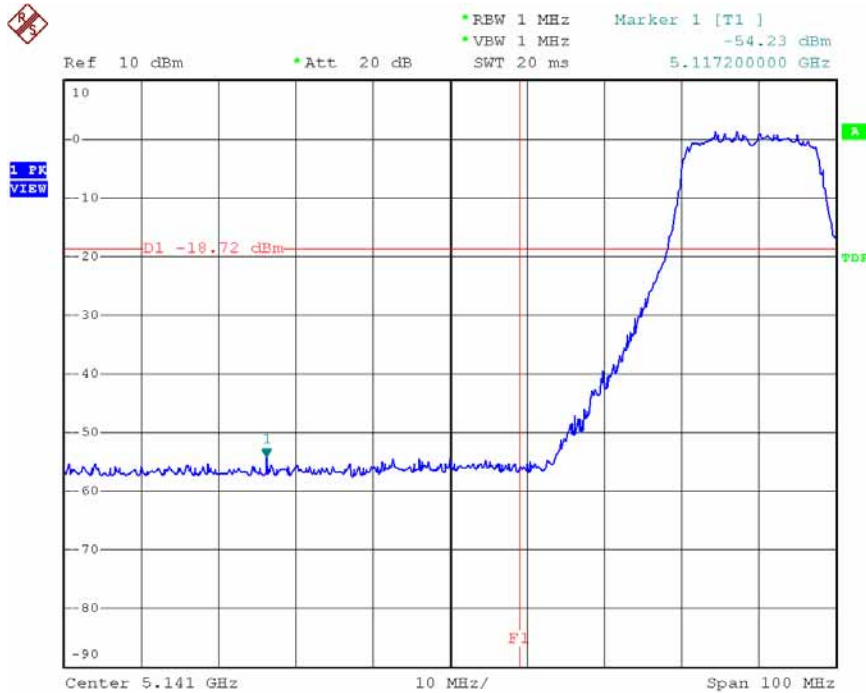
Date: 10.DEC.2007 21:12:35

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-L1+ ANT-R3 (ANT-L1)
 Channel: 36



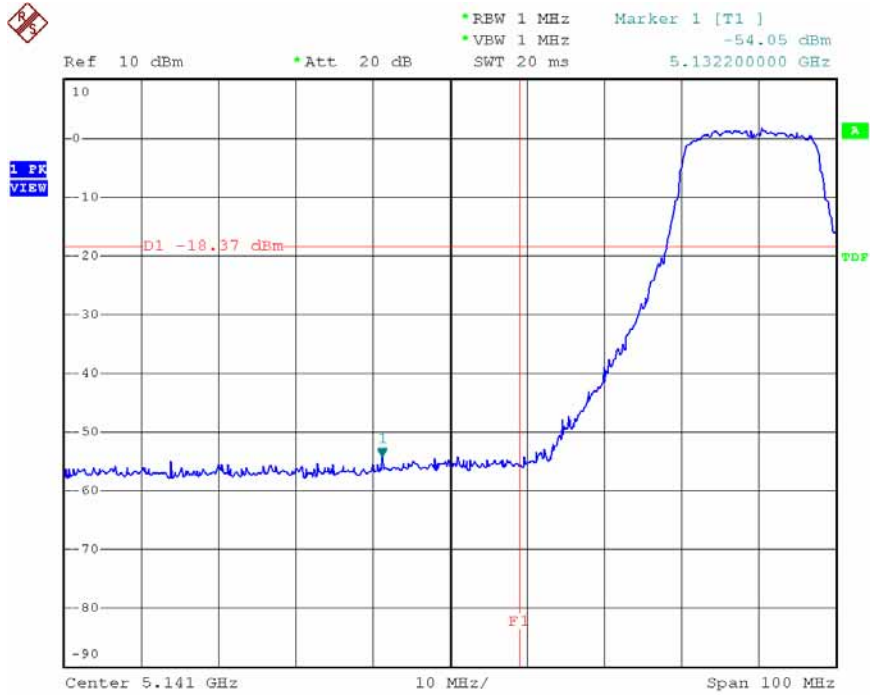
Date: 10.DEC.2007 22:08:44

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-L1+ ANT-R3 (ANT-R3)
 Channel: 36



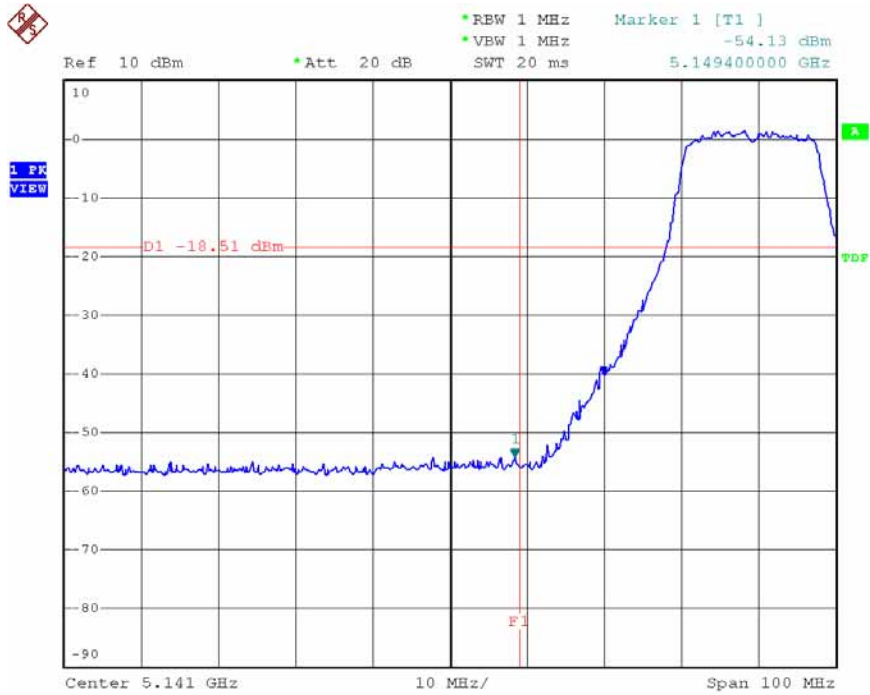
Date: 10.DEC.2007 22:11:16

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-L3 (ANT-R1)
 Channel: 36



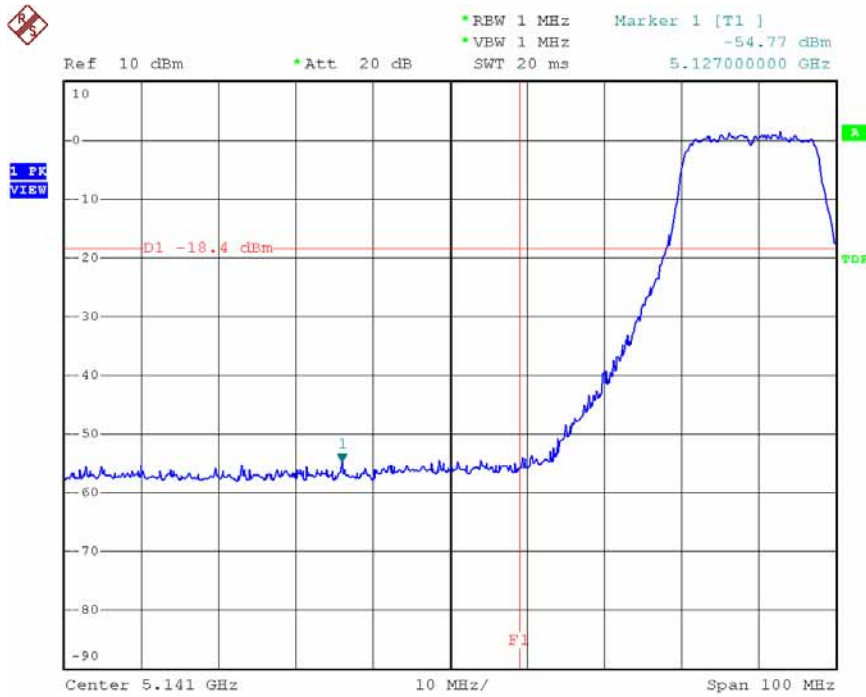
Date: 11.DEC.2007 11:50:10

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-L3 (ANT-L3)
 Channel: 36



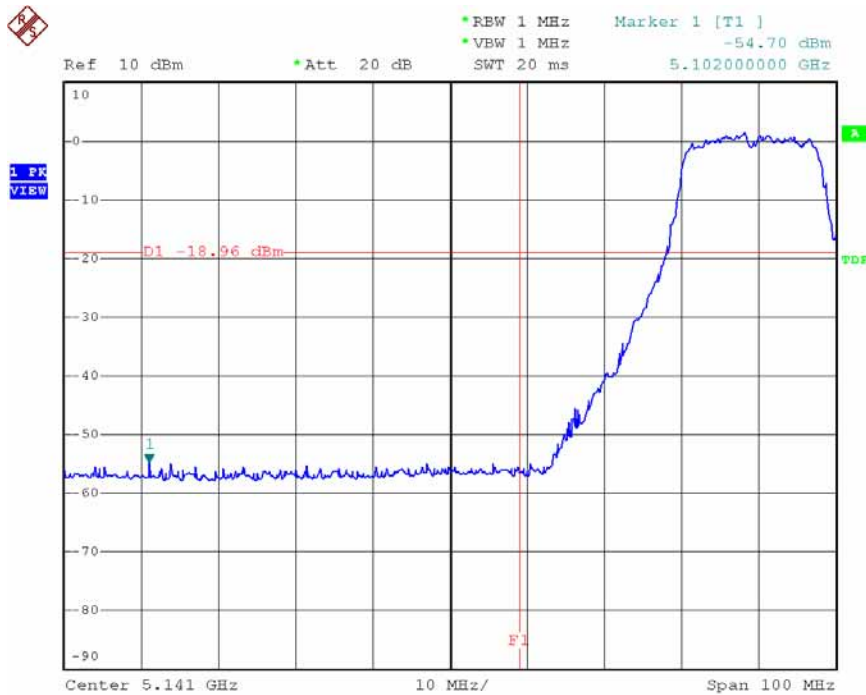
Date: 11.DEC.2007 11:49:06

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-R3 (ANT-R1)
 Channel: 36



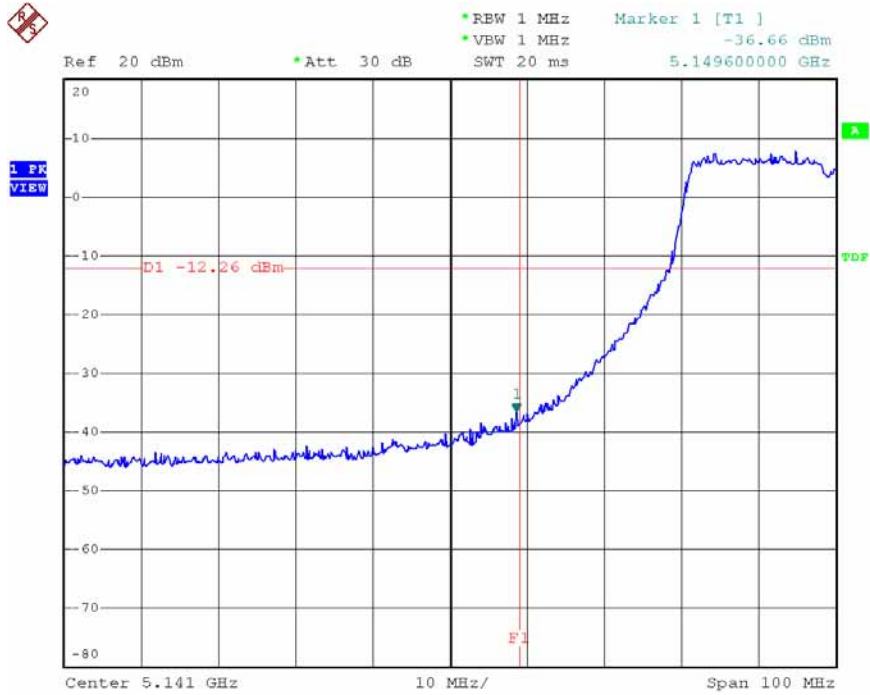
Date: 11.DEC.2007 10:37:58

Modulation Standard: 802.11Draft n, 20MHz (130Mbps) – ANT-R1+ ANT-R3 (ANT-R3)
 Channel: 36



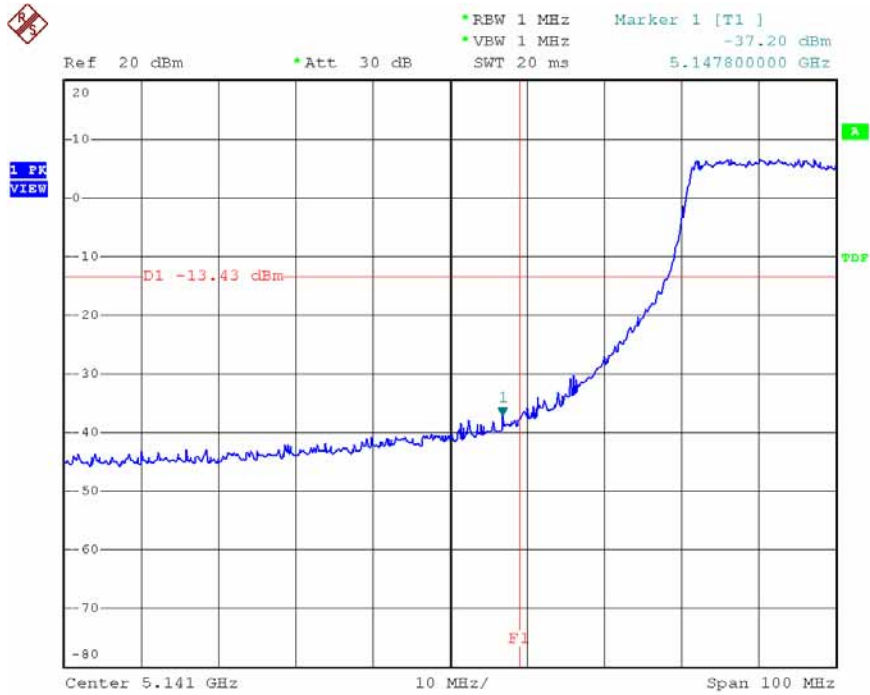
Date: 11.DEC.2007 10:37:09

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-L3 (ANT-L1)
Channel: 36



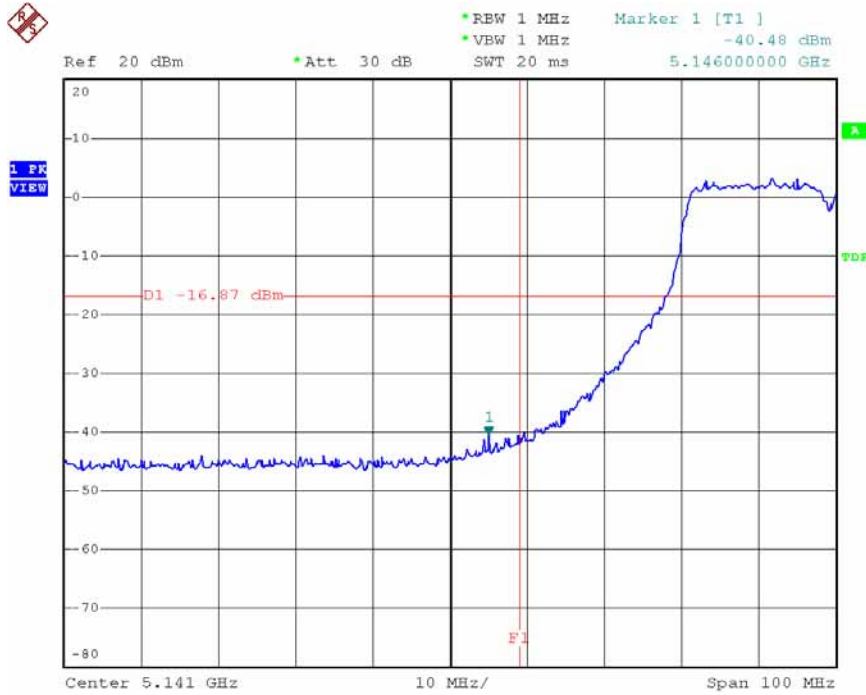
Date: 24.DEC.2007 17:09:25

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-L3 (ANT-L3)
Channel: 36



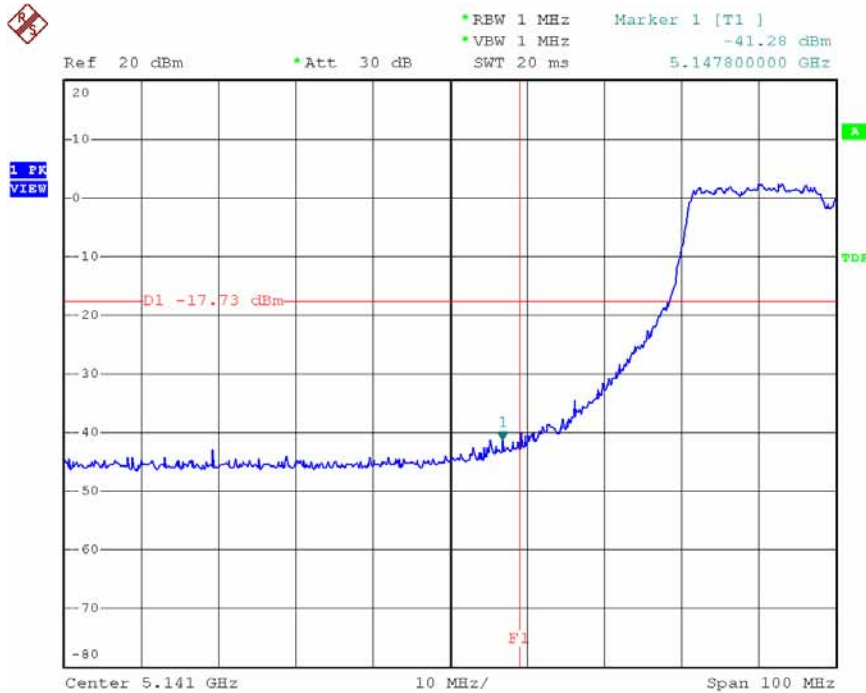
Date: 24.DEC.2007 17:10:45

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-R3 (ANT-L1)
Channel: 36



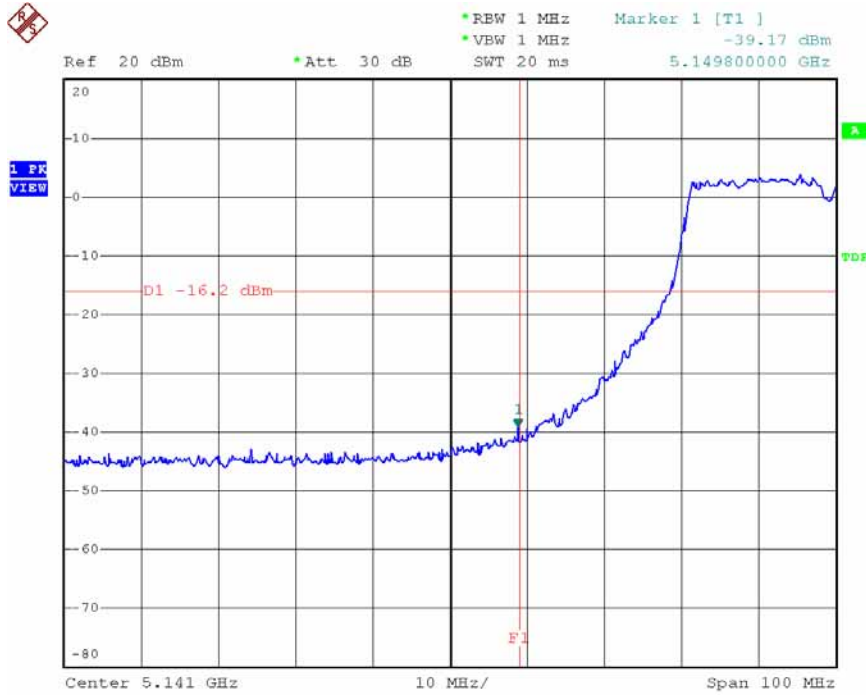
Date: 24.DEC.2007 21:03:53

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-L1+ ANT-R3 (ANT-R3)
Channel: 36



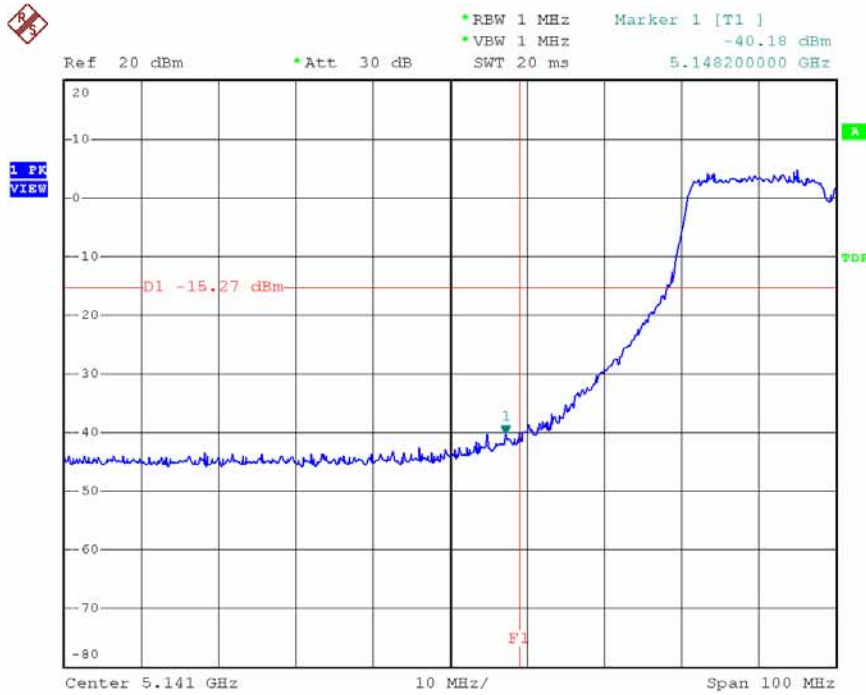
Date: 24.DEC.2007 21:02:59

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-L3 (ANT-R1)
Channel: 36



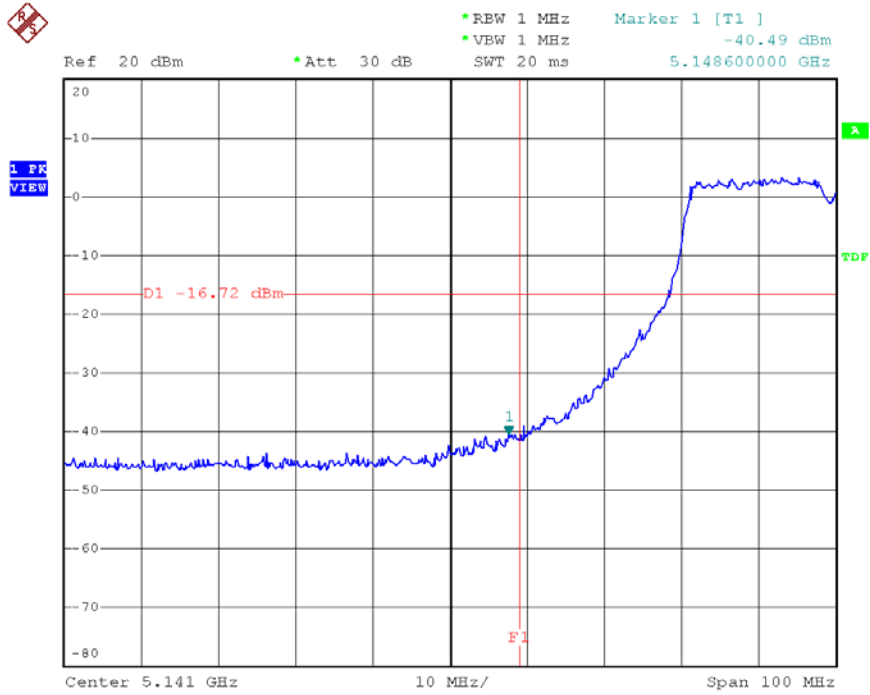
Date: 24.DEC.2007 21:05:25

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-L3 (ANT-L3)
Channel: 36



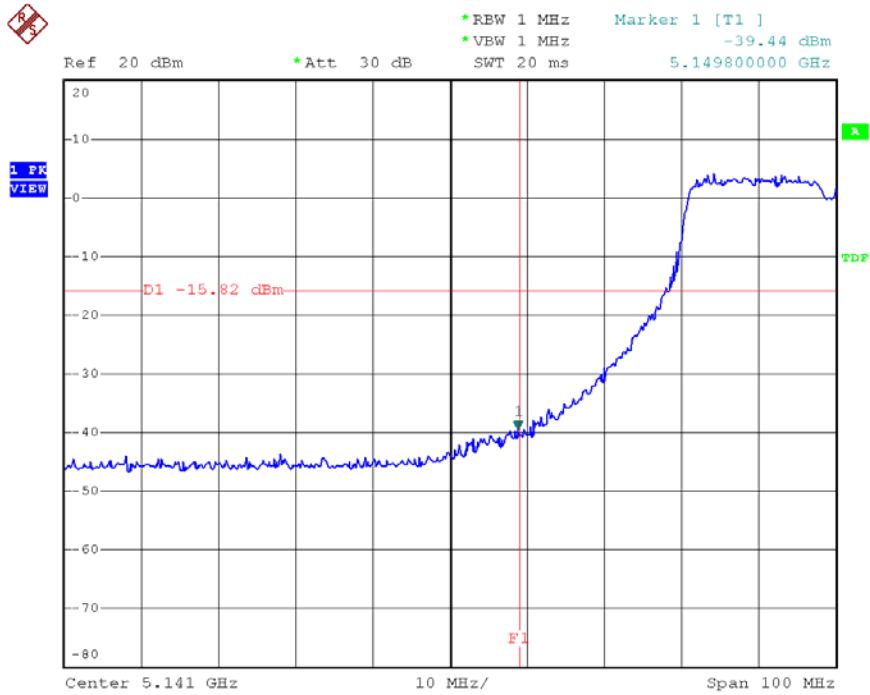
Date: 24.DEC.2007 21:04:53

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-R3 (ANT-R1)
 Channel: 36



Date: 24.DEC.2007 21:01:49

Modulation Standard: 802.11Draft n, 40MHz (270Mbps) – ANT-R1+ ANT-R3 (ANT-R3)
 Channel: 36



Date: 24.DEC.2007 21:00:48

10.4. Restrict Band Emission Measurement Data

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, - ANT-L1

Test Date: Dec. 07, 2007 Temperature: 22 Humidity: 70% Atmospheric pressure: 1023 hPa

Channel 01, Fundamental Frequency: 5180 MHz

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | | Corrected Factor (dB) | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Deg. | Ant High (m) |
|-----------------|-------------|----------------------|-------|-----------------------|-----------------|-------|----------------|-----|-------------|------------|--------------|
| | | Peak | Ave | | Peak | Ave | Peak | Ave | | | |
| 5148.90 | H | 52.22 | 40.92 | 5.46 | 57.68 | 46.38 | 74 | 54 | -7.62 | 203 | 1.11 |
| 5148.90 | V | 55.26 | 43.97 | 5.46 | 60.72 | 49.43 | 74 | 54 | -4.57 | 178 | 1.12 |

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, - ANT-L3

Test Date: Dec. 07, 2007 Temperature: 22 Humidity: 70% Atmospheric pressure: 1023 hPa

Channel 01, Fundamental Frequency: 5180 MHz

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | | Corrected Factor (dB) | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Deg. | Ant High (m) |
|-----------------|-------------|----------------------|-------|-----------------------|-----------------|-------|----------------|-----|-------------|------------|--------------|
| | | Peak | Ave | | Peak | Ave | Peak | Ave | | | |
| 5148.90 | H | 51.80 | 40.47 | 5.46 | 57.26 | 45.93 | 74 | 54 | -8.07 | 203 | 1.11 |
| 5148.90 | V | 54.39 | 42.83 | 5.46 | 59.85 | 48.29 | 74 | 54 | -5.71 | 178 | 1.12 |

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, - ANT-R1

Test Date: Dec. 07, 2007 Temperature: 22 Humidity: 70% Atmospheric pressure: 1023 hPa

Channel 01, Fundamental Frequency: 5180 MHz

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | | Corrected Factor (dB) | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Deg. | Ant High (m) |
|-----------------|-------------|----------------------|-------|-----------------------|-----------------|-------|----------------|-----|-------------|------------|--------------|
| | | Peak | Ave | | Peak | Ave | Peak | Ave | | | |
| 5148.90 | H | 51.93 | 40.62 | 5.46 | 57.39 | 46.08 | 74 | 54 | -7.92 | 203 | 1.11 |
| 5148.90 | V | 54.79 | 42.80 | 5.46 | 60.25 | 48.26 | 74 | 54 | -5.74 | 178 | 1.12 |

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, - ANT-R3

Test Date: Dec. 07, 2007 Temperature: 22 Humidity: 70% Atmospheric pressure: 1023 hPa

Channel 01, Fundamental Frequency: 5180 MHz

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | | Corrected Factor (dB) | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Deg. | Ant High (m) |
|-----------------|-------------|----------------------|-------|-----------------------|-----------------|-------|----------------|-----|-------------|------------|--------------|
| | | Peak | Ave | | Peak | Ave | Peak | Ave | | | |
| 5148.90 | H | 51.79 | 40.82 | 5.46 | 57.25 | 46.28 | 74 | 54 | -7.72 | 203 | 1.11 |
| 5148.90 | V | 54.80 | 42.55 | 5.46 | 60.26 | 48.01 | 74 | 54 | -5.99 | 178 | 1.12 |

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 for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10 MHz for Average detection at frequency above 1GHz.

Test Mode 5: 802.11Draft n, 20MHz, Transmit Rate: 130Mbps, - ANT-L1+ANT-L3

Test Date: Dec. 07, 2007 Temperature: 22 Humidity: 70% Atmospheric pressure: 1023 hPa

Channel 01, Fundamental Frequency: 5180 MHz

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | | Corrected Factor (dB) | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Deg. | Ant High (m) |
|-----------------|-------------|----------------------|-------|-----------------------|-----------------|-------|----------------|-----|-------------|------------|--------------|
| | | Peak | Ave | | Peak | Ave | Peak | Ave | | | |
| 5148.90 | H | 52.22 | 40.88 | 5.46 | 57.68 | 46.34 | 74 | 54 | -7.66 | 203 | 1.11 |
| 5149.70 | V | 55.90 | 43.50 | 5.46 | 61.36 | 48.96 | 74 | 54 | -5.04 | 112 | 1.78 |

Test Mode 6: 802.11Draft n, 20MHz, Transmit Rate: 130Mbps, - ANT-L1+ANT-R3

Test Date: Dec. 07, 2007 Temperature: 22 Humidity: 70% Atmospheric pressure: 1023 hPa

Channel 01, Fundamental Frequency: 5180 MHz

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | | Corrected Factor (dB) | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Deg. | Ant High (m) |
|-----------------|-------------|----------------------|-------|-----------------------|-----------------|-------|----------------|-----|-------------|------------|--------------|
| | | Peak | Ave | | Peak | Ave | Peak | Ave | | | |
| 5149.40 | H | 52.09 | 40.55 | 5.46 | 57.55 | 46.01 | 74 | 54 | -7.99 | 203 | 1.11 |
| 5249.70 | V | 55.79 | 43.80 | 5.46 | 61.25 | 49.26 | 74 | 54 | -4.74 | 112 | 1.78 |

Test Mode7: 802.11Draft n, 20MHz, Transmit Rate: 130Mbps, - ANT-R1+ANT-L3

Test Date: Dec. 07, 2007 Temperature: 22 Humidity: 70% Atmospheric pressure: 1023 hPa

Channel 01, Fundamental Frequency: 5180 MHz

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | | Corrected Factor (dB) | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Deg. | Ant High (m) |
|-----------------|-------------|----------------------|-------|-----------------------|-----------------|-------|----------------|-----|-------------|------------|--------------|
| | | Peak | Ave | | Peak | Ave | Peak | Ave | | | |
| 5148.90 | H | 52.26 | 40.26 | 5.46 | 57.72 | 45.72 | 74 | 54 | -8.28 | 203 | 1.11 |
| 5149.70 | V | 55.79 | 43.80 | 5.46 | 61.25 | 49.26 | 74 | 54 | -4.74 | 112 | 1.78 |

Test Mode 8: 802.11Draft n, 20MHz, Transmit Rate: 130Mbps, - ANT-R1+ANT-R3

Test Date: Dec. 07, 2007 Temperature: 22 Humidity: 70% Atmospheric pressure: 1023 hPa

Channel 01, Fundamental Frequency: 5180 MHz

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | | Corrected Factor (dB) | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Deg. | Ant High (m) |
|-----------------|-------------|----------------------|-------|-----------------------|-----------------|-------|----------------|-----|-------------|------------|--------------|
| | | Peak | Ave | | Peak | Ave | Peak | Ave | | | |
| 5148.90 | H | 52.11 | 40.91 | 5.46 | 57.57 | 46.37 | 74 | 54 | -7.63 | 203 | 1.11 |
| 5149.70 | V | 55.58 | 43.36 | 5.46 | 61.04 | 48.82 | 74 | 54 | -5.18 | 112 | 1.78 |

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 for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10 MHz for Average detection at frequency above 1GHz.

Test Mode 9: 802.11Draft n, 40MHz, Transmit Rate: 270Mbps, - ANT-L1+ANT-L3

Test Date: Dec. 07, 2007 Temperature: 22 Humidity: 70% Atmospheric pressure: 1023 hPa

Channel 01, Fundamental Frequency: 5180 MHz

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | | Corrected Factor (dB) | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Deg. | Ant High (m) |
|-----------------|-------------|----------------------|-------|-----------------------|-----------------|-------|----------------|-----|-------------|------------|--------------|
| | | Peak | Ave | | Peak | Ave | Peak | Ave | | | |
| 5149.40 | H | 54.77 | 42.90 | 5.46 | 60.23 | 48.36 | 74 | 54 | -5.64 | 200 | 1.19 |
| 5149.40 | V | 56.54 | 44.50 | 5.46 | 62.00 | 49.96 | 74 | 54 | -4.04 | 172 | 1.38 |

Test Mode 10: 802.11Draft n, 40MHz, Transmit Rate: 270Mbps, - ANT-L1+ANT-R3

Test Date: Dec. 07, 2007 Temperature: 22 Humidity: 70% Atmospheric pressure: 1023 hPa

Channel 01, Fundamental Frequency: 5180 MHz

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | | Corrected Factor (dB) | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Deg. | Ant High (m) |
|-----------------|-------------|----------------------|-------|-----------------------|-----------------|-------|----------------|-----|-------------|------------|--------------|
| | | Peak | Ave | | Peak | Ave | Peak | Ave | | | |
| 5149.40 | H | 54.80 | 42.70 | 5.46 | 60.26 | 48.16 | 74 | 54 | -5.84 | 200 | 1.19 |
| 5149.40 | V | 56.25 | 44.69 | 5.46 | 61.71 | 50.16 | 74 | 54 | -3.85 | 172 | 1.38 |

Test Mode 11: 802.11Draft n, 40MHz, Transmit Rate: 270Mbps, - ANT-R1+ANT-L3

Test Date: Dec. 07, 2007 Temperature: 22 Humidity: 70% Atmospheric pressure: 1023 hPa

Channel 01, Fundamental Frequency: 5180 MHz

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | | Corrected Factor (dB) | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Deg. | Ant High (m) |
|-----------------|-------------|----------------------|-------|-----------------------|-----------------|-------|----------------|-----|-------------|------------|--------------|
| | | Peak | Ave | | Peak | Ave | Peak | Ave | | | |
| 5149.40 | H | 54.80 | 42.64 | 5.46 | 60.26 | 48.10 | 74 | 54 | -5.90 | 260 | 1.19 |
| 5149.40 | V | 56.77 | 44.90 | 5.46 | 62.23 | 50.36 | 74 | 54 | -3.64 | 172 | 1.38 |

Test Mode 12: 802.11Draft n, 40MHz, Transmit Rate: 270Mbps, - ANT-R1+ANT-R3

Test Date: Dec. 07, 2007 Temperature: 22 Humidity: 70% Atmospheric pressure: 1023 hPa

Channel 01, Fundamental Frequency: 5180 MHz

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | | Corrected Factor (dB) | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Deg. | Ant High (m) |
|-----------------|-------------|----------------------|-------|-----------------------|-----------------|-------|----------------|-----|-------------|------------|--------------|
| | | Peak | Ave | | Peak | Ave | Peak | Ave | | | |
| 5149.40 | H | 54.64 | 42.89 | 5.46 | 60.10 | 48.35 | 74 | 54 | -5.65 | 200 | 1.19 |
| 5149.40 | V | 56.44 | 44.94 | 5.46 | 61.90 | 50.40 | 74 | 54 | -3.60 | 172 | 1.38 |

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 for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10 MHz for Average detection at frequency above 1GHz.

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 – 5.250 |
| 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 | | | |

** : 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.

12. RF Exposure

FCC Rules and Regulations Part 1.1307, 1.1310, 2.1091, 2.1093:
RF Exposure Compliance

12.1. Limit for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational / Controlled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm ²) | Averaging Time E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|--|--|
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 |
| 3.0-30 | 1842/f | 4.89/f | (900/f)* | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | | | F/300 | 6 |
| 1500-100,000 | | | 5 | 6 |

(B) Limits for General Population / Uncontrolled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm ²) | Averaging Time E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|---|--|
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180/f)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | | | F/1500 | 30 |
| 1500-100,000 | | | 1.0 | 30 |

F=frequency in MHz

*Plane-wave equivalent power density

12.2. MPE Calculations

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (mW/cm}^2\text{)} = \frac{E^2}{3770}$$

E = Electric field (V/m)

P = Peak output power (W)

G = Antenna numeric gain (numeric)

d = Separation distance (m)

Because the EUT is belong to General Population/ Uncontrolled Exposure. So the Limit of Power Density is 10 W/m². We can change the formula to:

$$d = \sqrt{\frac{30 \times P \times G}{3770}}$$

12.3. FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation. Proposed RF exposure safety information to include in User's Manual.