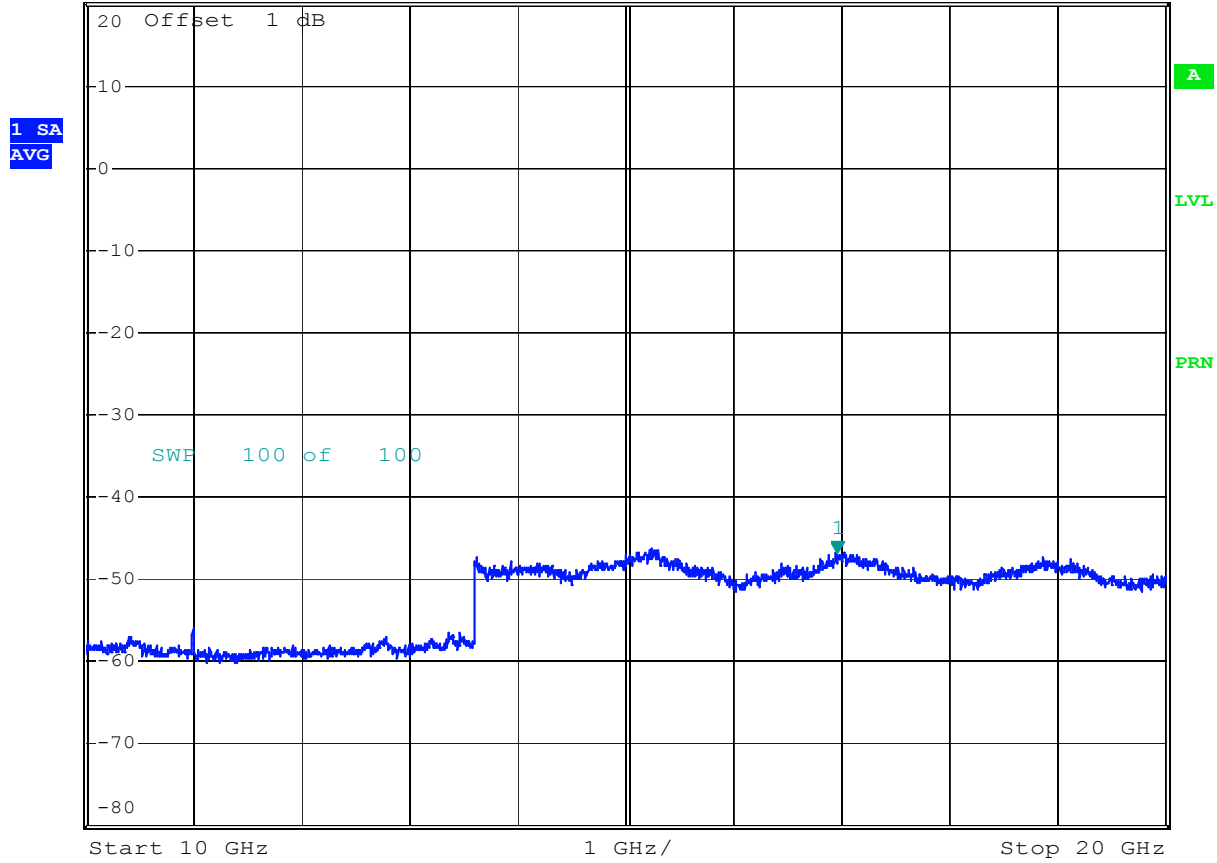


Plot 5.4



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -46.77 dBm
 Ref 20 dBm *Att 30 dB SWT 200 ms 16.95000000 GHz

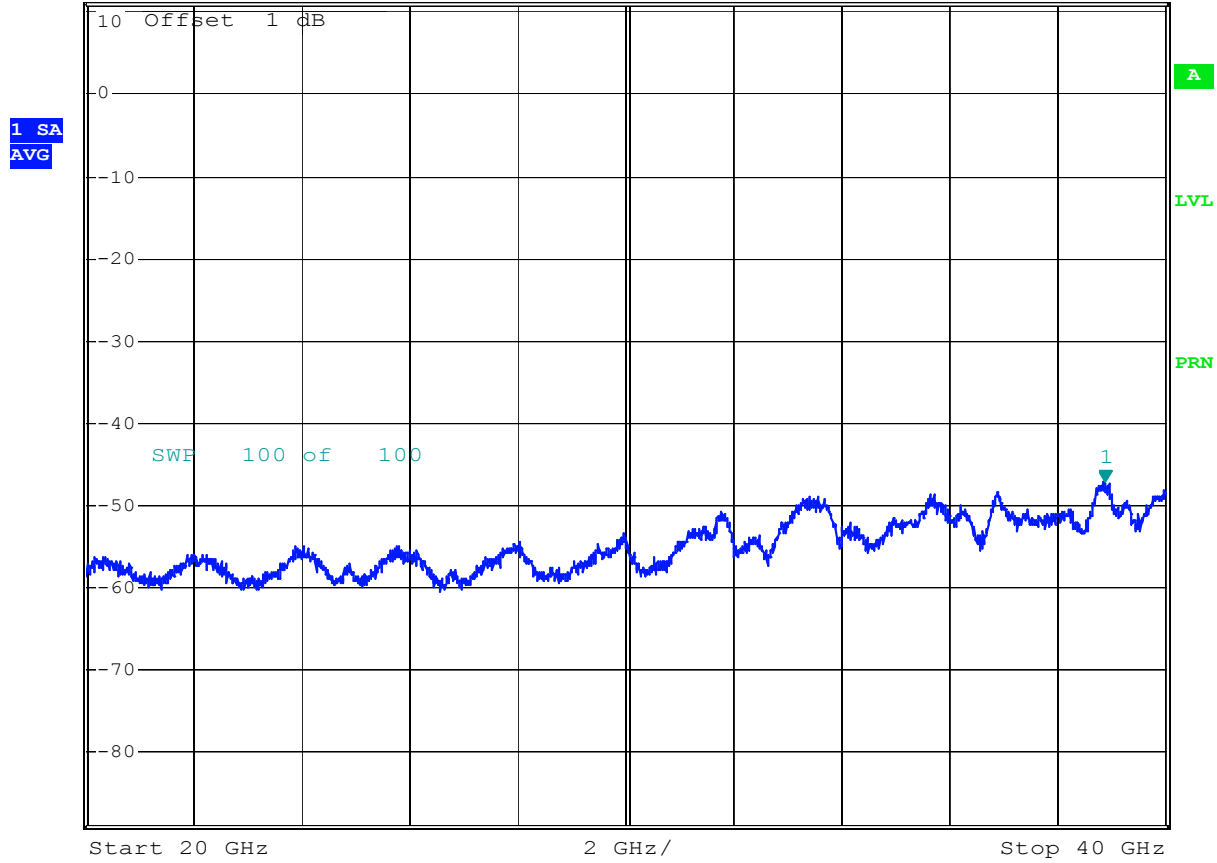


Comment: out-of-band, 5500 MHz, 6 Mbps
 Date: 19.DEC.2005 10:27:11

Plot 5.5



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -47.20 dBm
 Ref 11 dBm *Att 20 dB SWT 400 ms 38.86000000 GHz



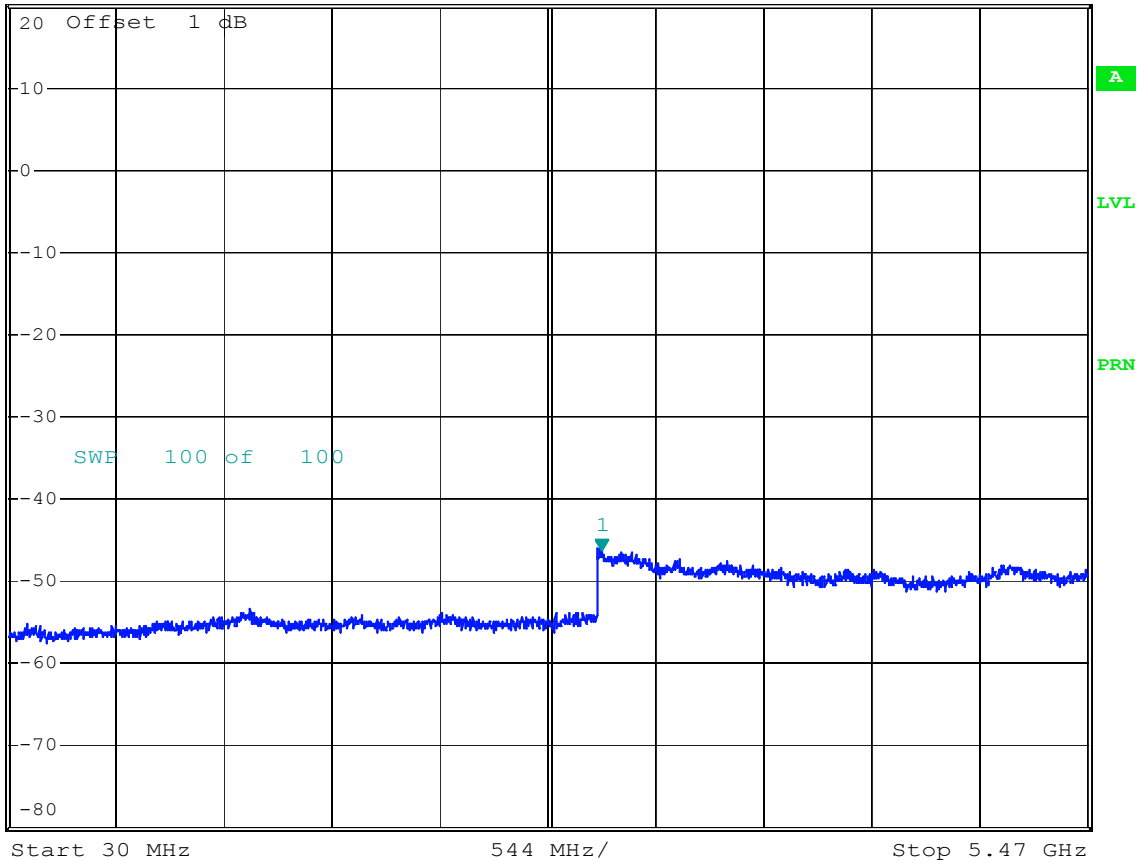
Comment: out-of-band, 5500 MHz, 6 Mbps
 Date: 19.DEC.2005 10:29:02

Plot 5.6



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -46.32 dBm
 Ref 20 dBm *Att 40 dB SWT 110 ms 3.024720000 GHz

1 SA
 AVG



Comment: out-of-band, 5600 MHz, 6 Mbps
 Date: 19.DEC.2005 10:32:27

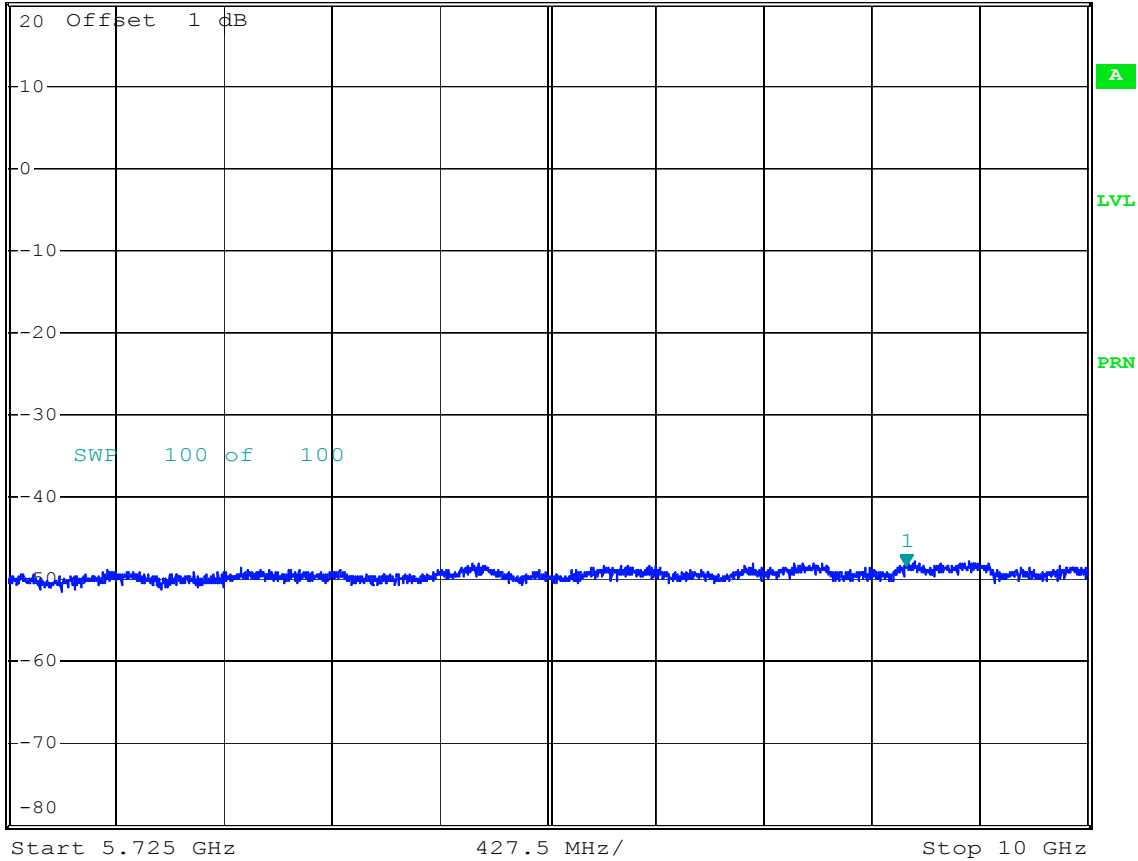
Plot 5.7



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -48.41 dBm
 SWT 90 ms 9.281800000 GHz

Ref 20 dBm *Att 40 dB

1 SA
 AVG

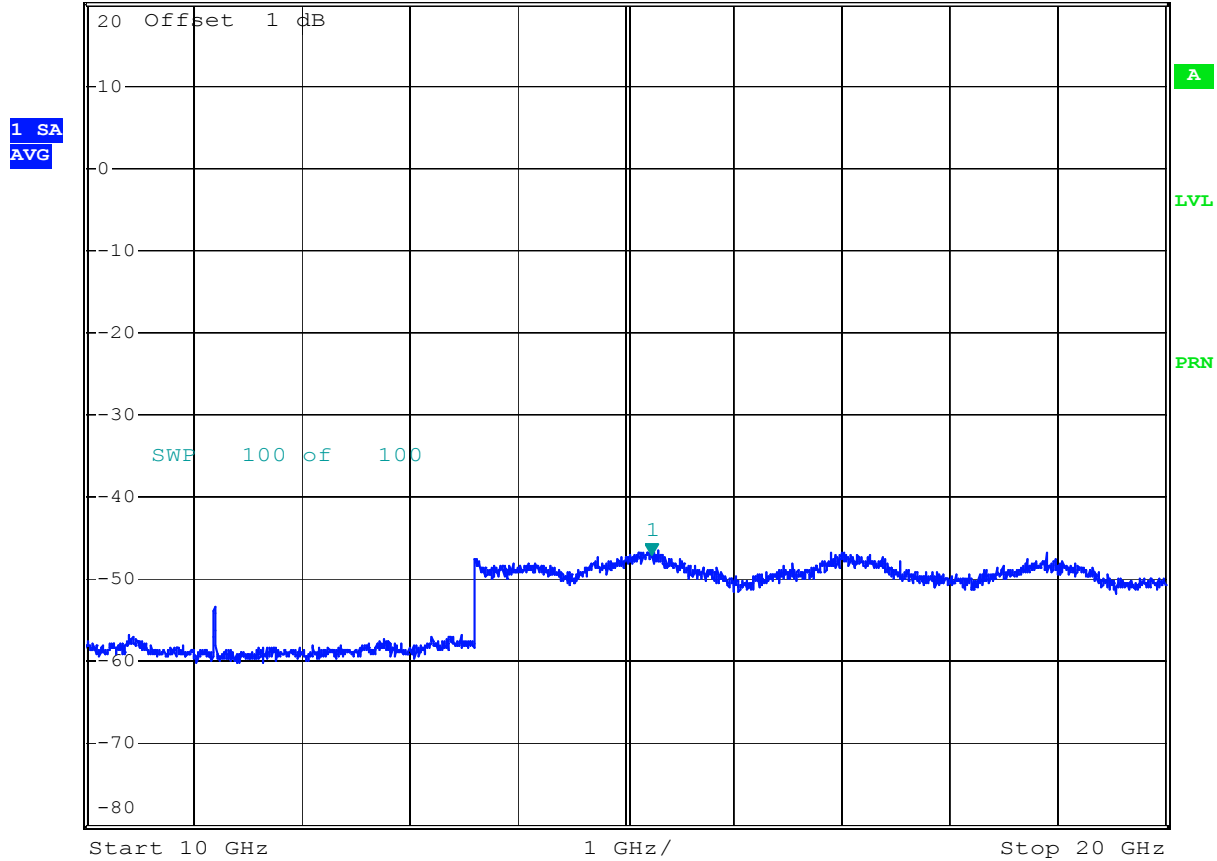


Comment: out-of-band, 5600 MHz, 6 Mbps
 Date: 19.DEC.2005 10:33:48

Plot 5.8



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -47.06 dBm
 Ref 20 dBm *Att 30 dB SWT 200 ms 15.23000000 GHz



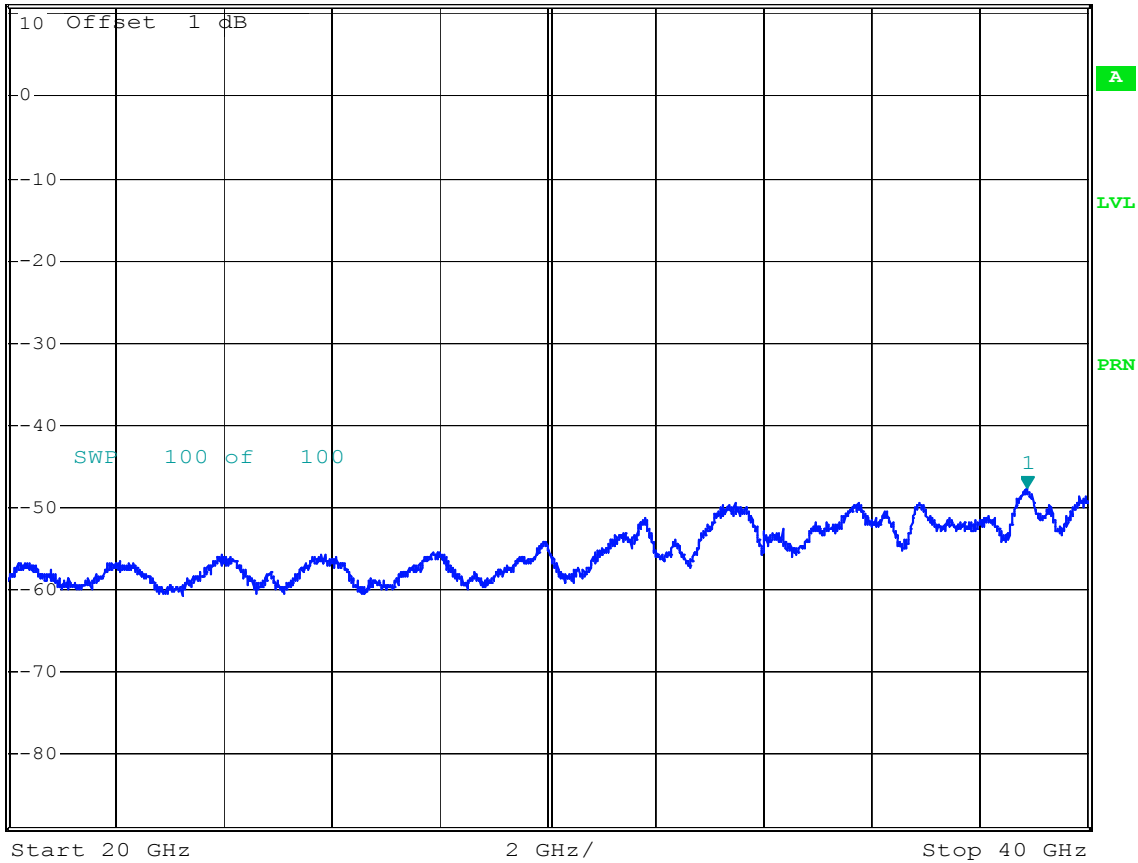
Comment: out-of-band, 5600 MHz, 6 Mbps
 Date: 19.DEC.2005 10:35:22

Plot 5.9



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -47.59 dBm
 Ref 11 dBm *Att 20 dB SWT 400 ms 38.87000000 GHz

1 SA
 AVG

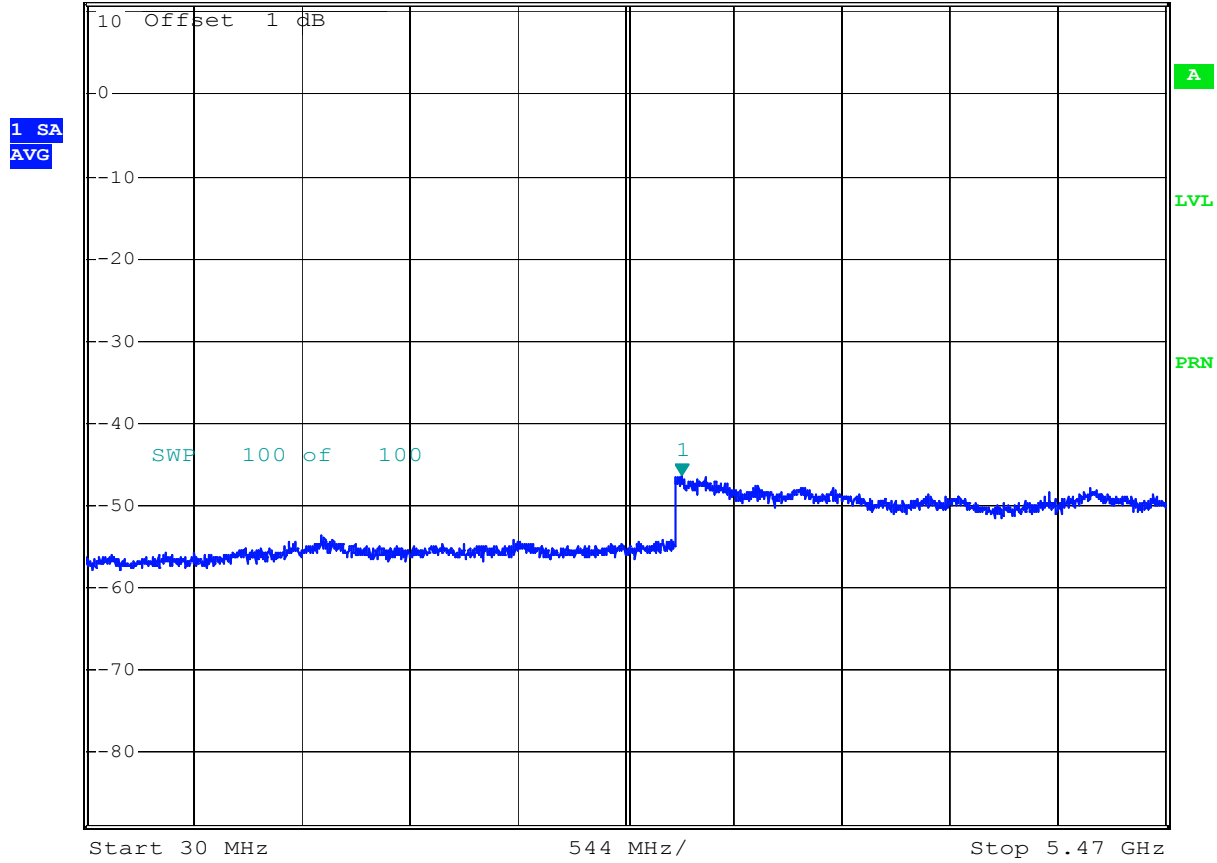


Comment: out-of-band, 5600 MHz, 6 Mbps
 Date: 19.DEC.2005 10:39:48

Plot 5.10



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -46.47 dBm
 Ref 11 dBm *Att 40 dB SWT 110 ms 3.035600000 GHz



Comment: out-of-band, 5700 MHz, 6 Mbps
 Date: 19.DEC.2005 10:41:24

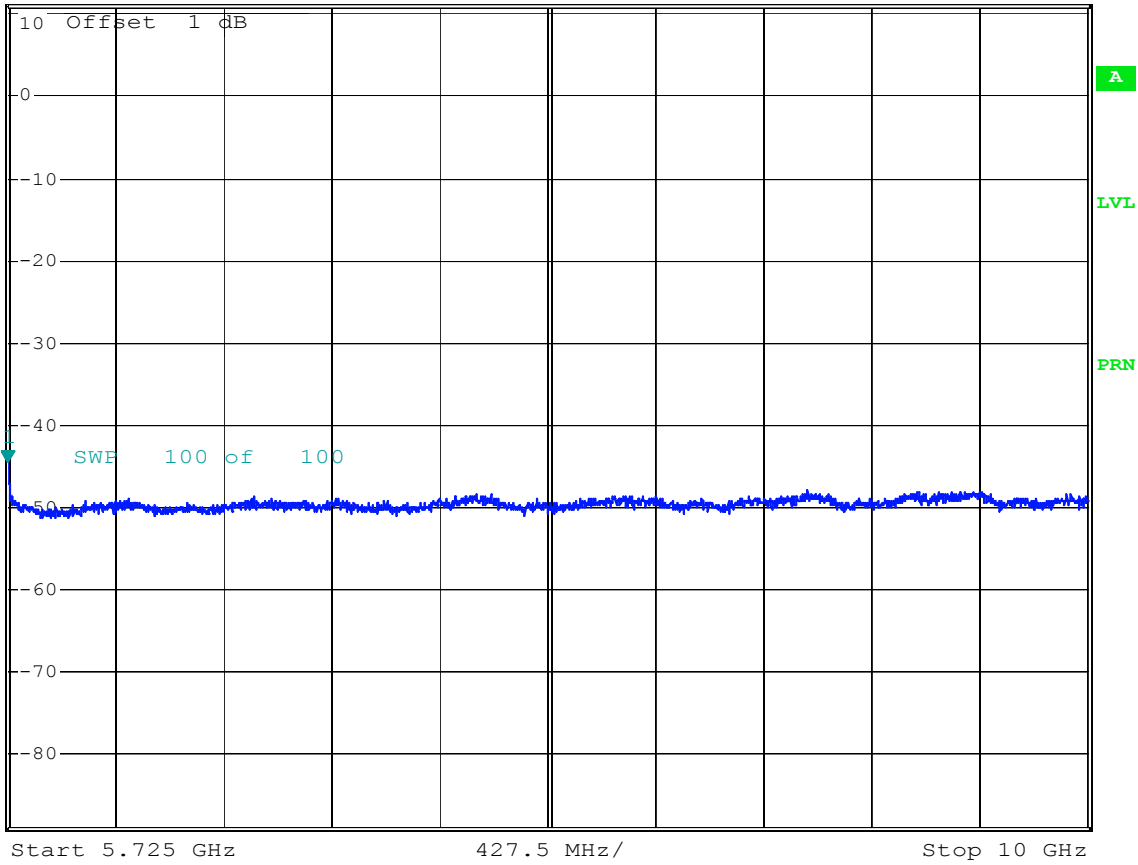
Plot 5.11



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -44.47 dBm
 SWT 90 ms 5.72500000 GHz

Ref 11 dBm *Att 40 dB

1 SA
 AVG

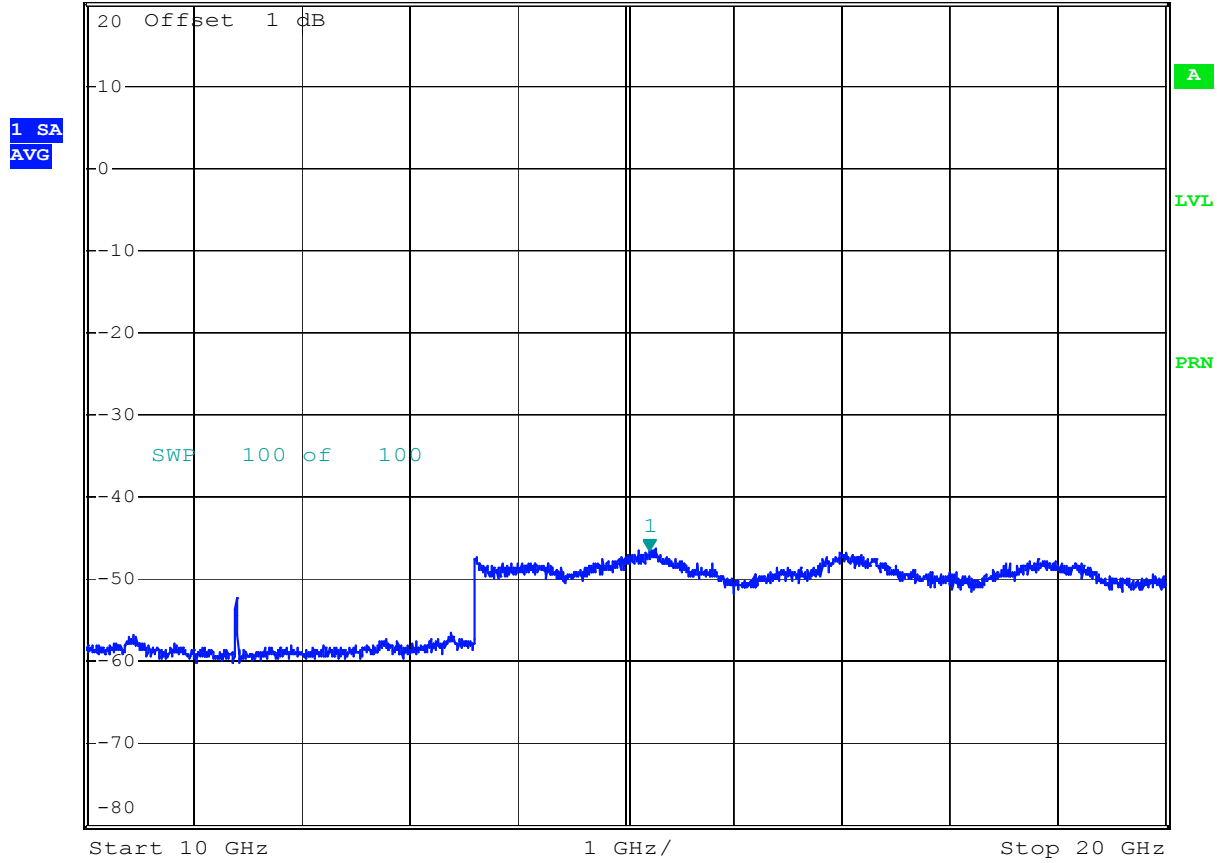


Comment: out-of-band, 5700 MHz, 6 Mbps
 Date: 19.DEC.2005 10:51:41

Plot 5.12



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -46.44 dBm
 Ref 20 dBm *Att 30 dB SWT 200 ms 15.22500000 GHz



Comment: out-of-band, 5700 MHz, 6 Mbps
 Date: 19.DEC.2005 10:53:17

Plot 5.14

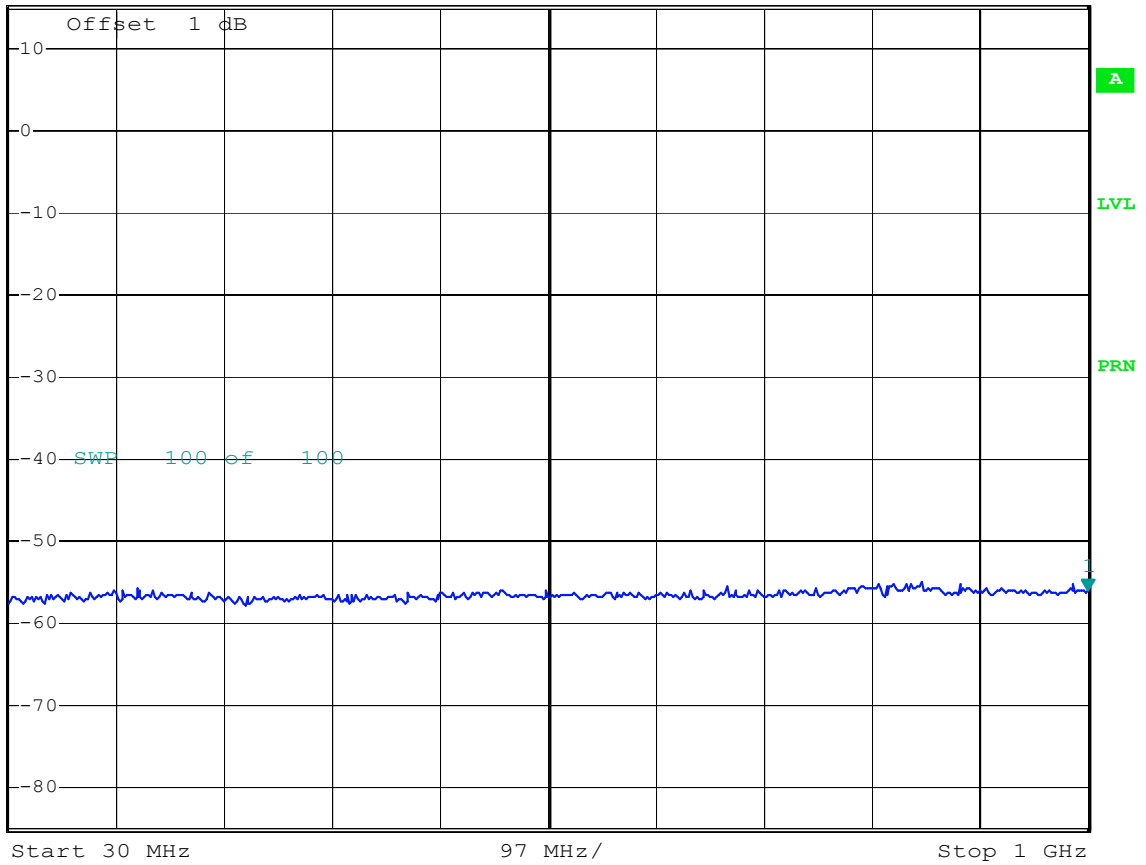


*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -56.09 dBm
 SWT 5 ms 1.000000000 GHz

Ref 15 dBm

*Att 40 dB

1 SA
 AVG



Comment: Out-of-band emissions, 5520 MHz, turbo mode, 72 Mbps

Date: 18.JAN.2006 15:54:46

Plot 5.15

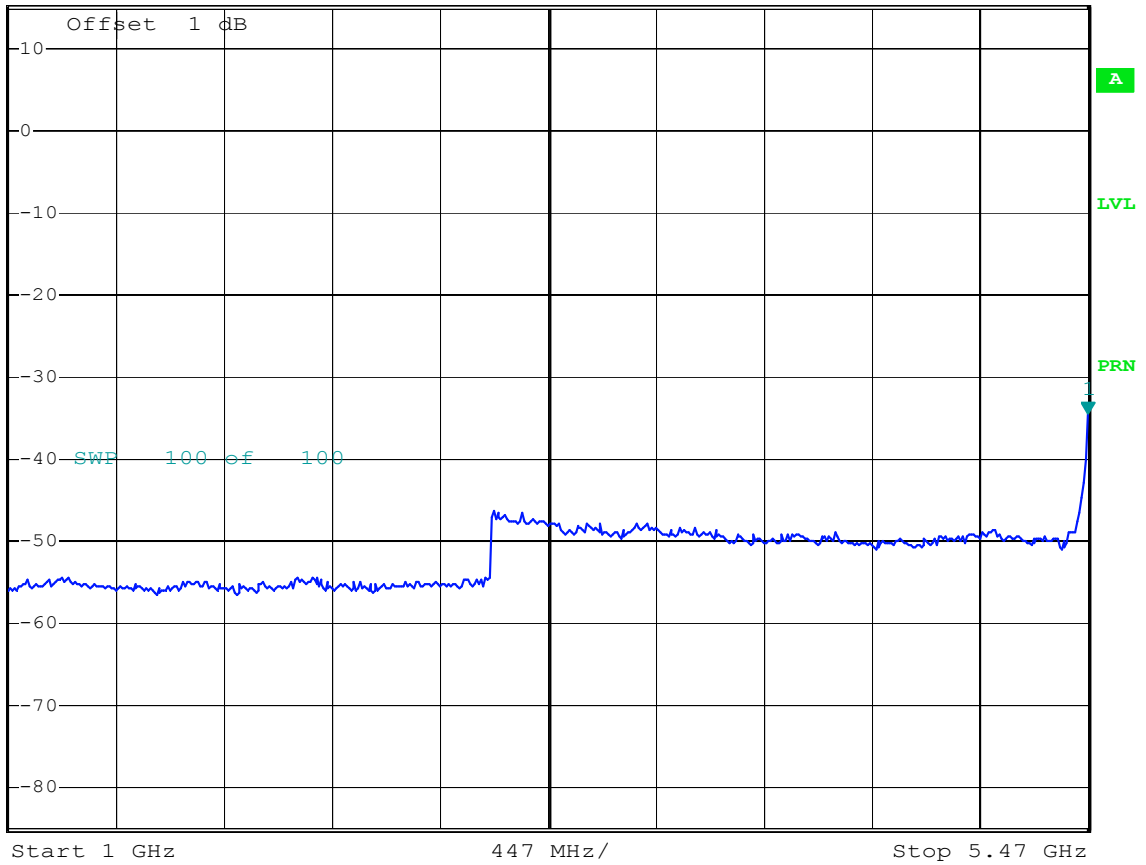


*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -34.44 dBm
 SWT 90 ms 5.470000000 GHz

Ref 15 dBm

*Att 40 dB

1 SA
 AVG



Comment: Out-of-band emissions, 5520 MHz, turbo mode, 72 Mbps

Date: 18.JAN.2006 15:53:08

Plot 5.16

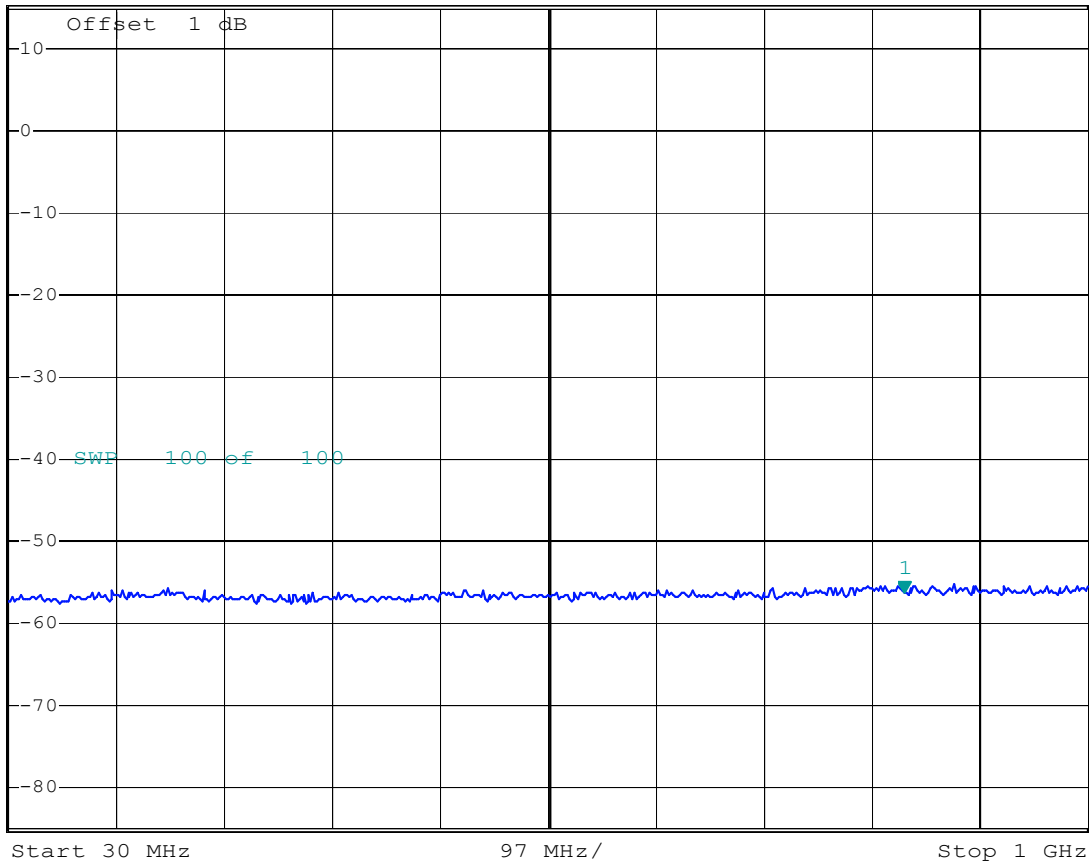


*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -56.14 dBm
 SWT 5 ms 835.10000000 MHz

Ref 15 dBm

*Att 40 dB

1 SA
 AVG



Comment: Out-of-band emissions, 5600 MHz, turbo mode, 72 Mbps

Date: 18.JAN.2006 15:56:11

Plot 5.17

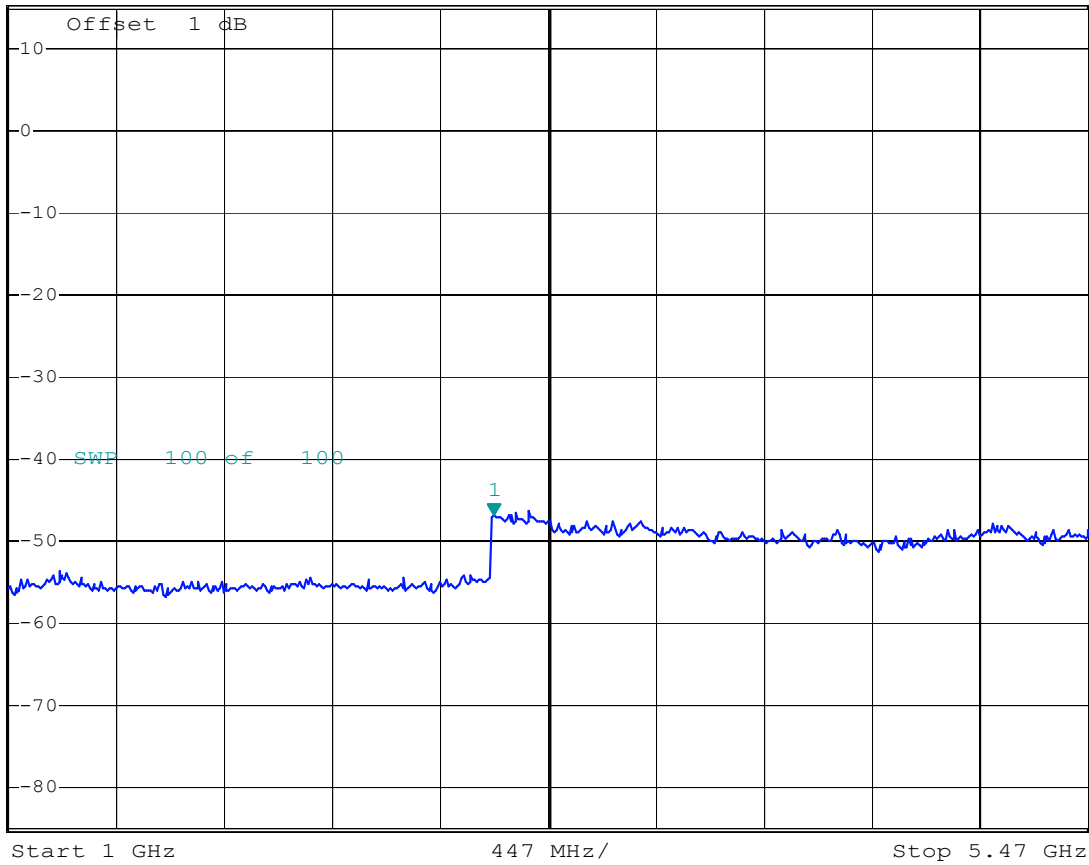


*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -46.77 dBm
 SWT 90 ms 3.011500000 GHz

Ref 15 dBm

*Att 40 dB

1 SA
 AVG



Comment: Out-of-band emissions, 5600 MHz, turbo mode, 72 Mbps

Date: 18.JAN.2006 16:07:37

Plot 5.18

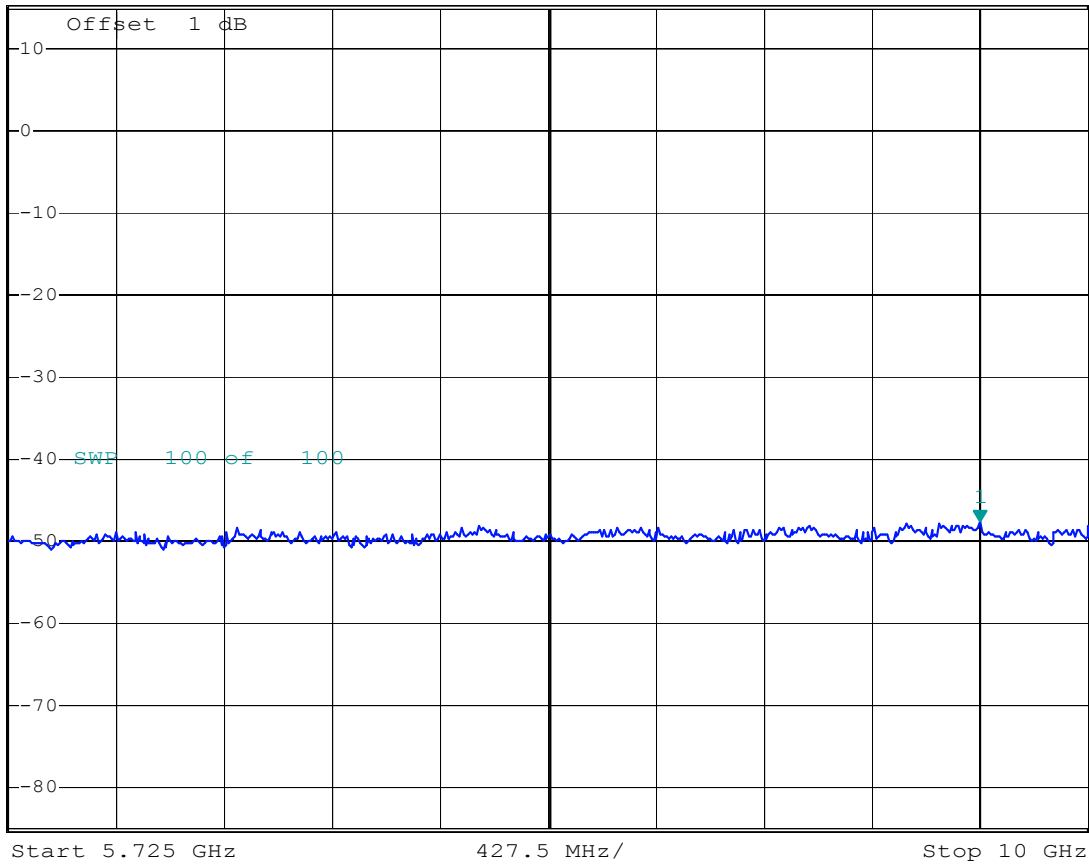


*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -47.72 dBm
 SWT 90 ms 9.572500000 GHz

Ref 15 dBm

*Att 40 dB

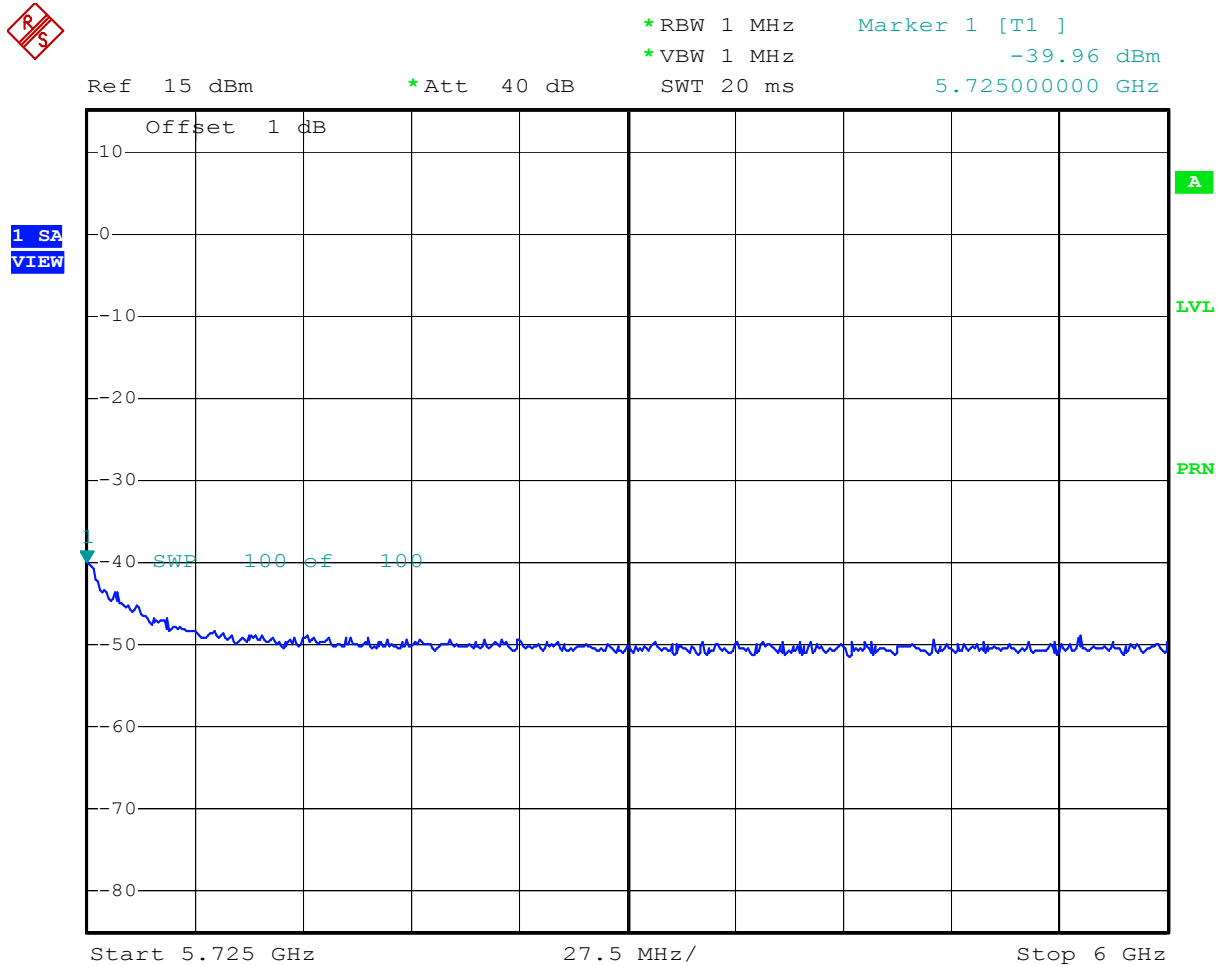
1 SA
 AVG



Comment: Out-of-band emissions, 5600 MHz, turbo mode, 72 Mbps

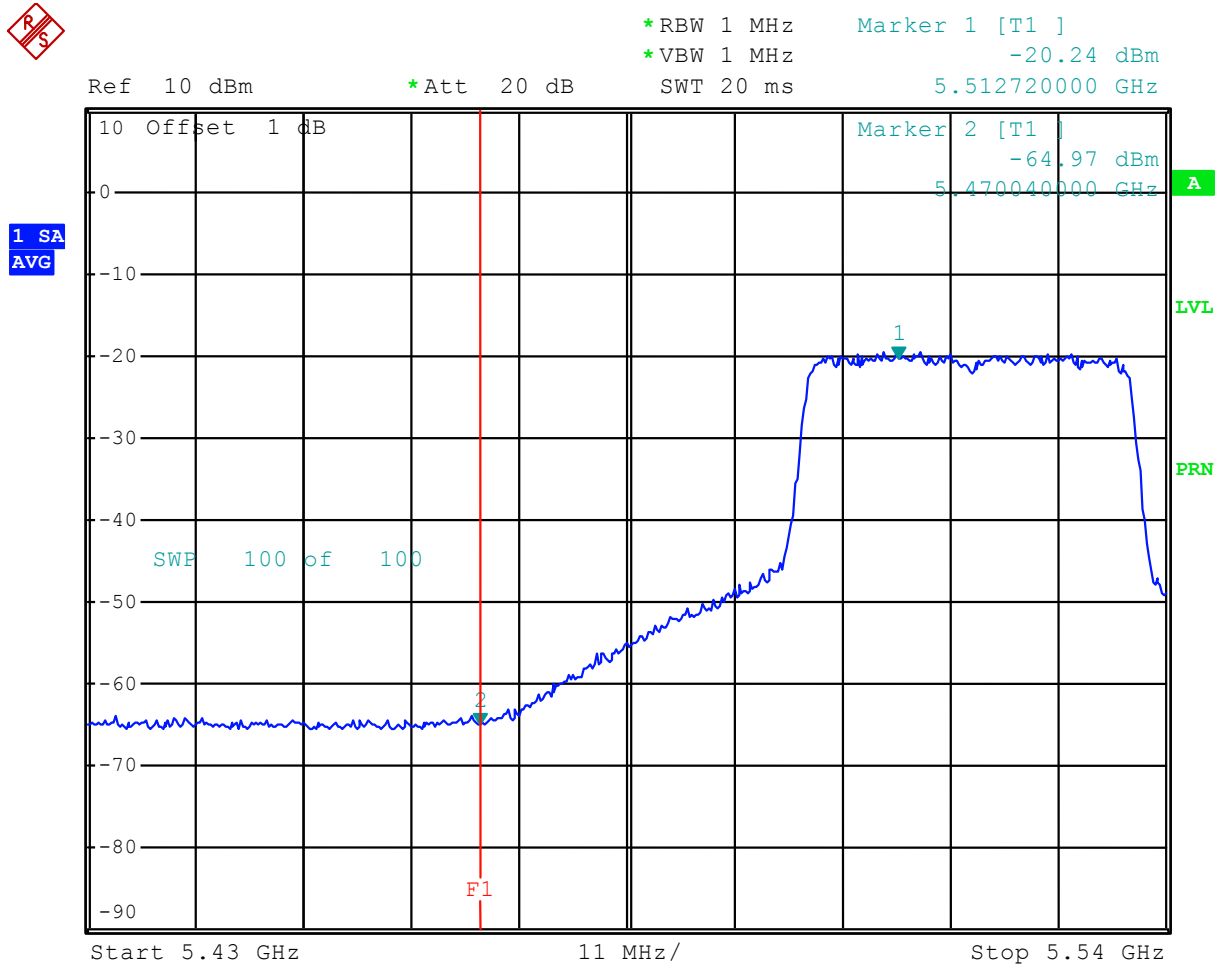
Date: 18.JAN.2006 16:09:07

Plot 5.19



Comment: Out-of-band emissions, 5680 MHz, turbo mode, 72 Mbps
 Date: 18.JAN.2006 16:16:25

Minimum Power Plot 5.22



Comment: Out-of-band emissions, 5520 MHz, turbo, 72 Mbps, minimum pow

Comment: er

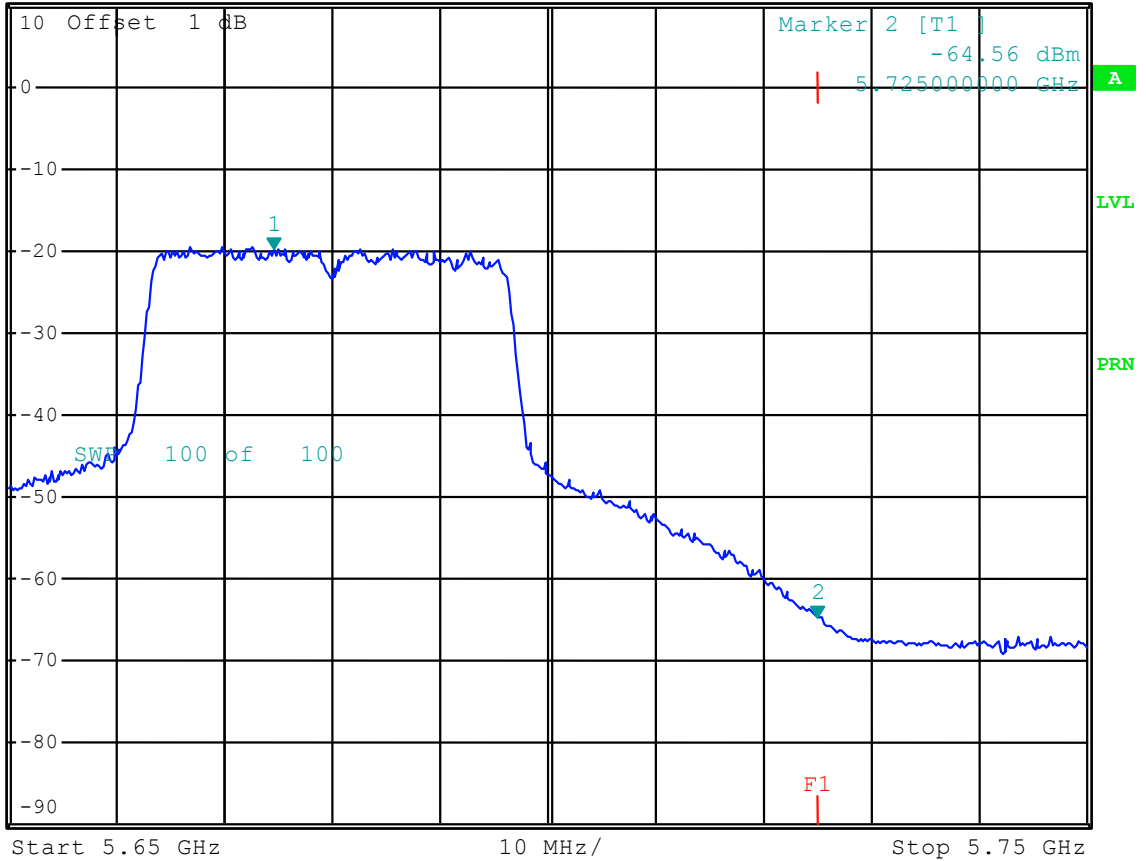
Date: 17.JAN.2006 18:35:30

Minimum Power Plot 5.24



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -19.79 dBm
 Ref 10 dBm *Att 20 dB SWT 20 ms 5.674600000 GHz

1 SA
AVG



Comment: Out-of-band emissions, 5680 MHz, turbo, 72 Mbps, minimum pow

Comment: er

Date: 17.JAN.2006 18:38:18

4.6 Radiated Emissions above 1 GHz
FCC Rules: 15.407(b)(3)(7), 15.205, 15.209

Requirement

All emissions outside of the 5.47 –5.725 GHz band shall not exceed an EIRP of –27 dBm/MHz.

Note: Except for emissions in restricted bands, that corresponds to the field strength level of 68.3 dB(μV/m) at 3 m distance when measure with 1 MHz resolution bandwidth.

Emissions in restricted bands shall not exceed 15.209 limits.

Procedure

Radiated emission measurements were performed from 30 MHz to 40,000 MHz. Spectrum Analyzer Resolution Bandwidth is 1 MHz for frequencies above 1000 MHz.

The EUT is placed on the wooden turntable. If the EUT attaches to peripherals, they are connected and operational (as typical as possible). During testing, all cables were manipulated to produce worst-case emissions. The signal is maximized through rotation. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters.

Radiated emissions are taken at 3 m unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. All readings are extrapolated back to the equivalent three-meter reading using inverse scaling with distance.

Data is included of the worst-case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

Field Strength Calculation

$$FS = RA + AF + CF - AG$$

Where FS = Field Strength in dB(μV/m)

RA = Receiver Amplitude (including preamplifier) in dB(μV)

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB(1/m)

AG = Amplifier Gain in dB

Assume a receiver reading of 52.0 dB(μV) is obtained. The antenna factor of 7.4 dB(1/m) and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving field strength of 32 dB(μV/m). This value in dB(μV/m) was converted to Intertek corresponding level in μV/m.

RA = 52.0 dB(μV); CF = 1.6 dB; AF = 7.4 dB(1/m); AG = 29.0 dB

FS = 52 + 7.4 + 1.6 - 29 = 32 dB(μV/m)

Level in μV/m = Common Antilogarithm [(32 dB(μV/m)/20)] = 39.8 μV/m

Result



The data listed on the following tables list the significant emission frequencies, the limit and the margin of compliance. The EUT passed by 2.0 dB.

The data listed on the following tables were the only emissions found in the investigation up to 40 GHz. No other emissions were found above the system noise floor, which is at least 6 dB below the regulatory limit.

No emissions from the fundamental transmit frequencies were detected in the restricted bands listed in FCC section 15.205.

All radiated spurious emissions in the restricted bands, including the emissions in the adjacent channels, are below the limits listed in FCC section 15.205.

Internal Antenna

EUT: AP 700	Test Date: January 11, 2006	Standard	FCC 15.407(b)(3)(6)(7)						
Test Mode: Tx,	Engineer: AK.	Test Distance	3	meter					
Frequency MHz	Reading dB(μV)	Detector P/A/Q	Ant. Pol. H/V	Ant. Factor dB(1/m)	CF dB	DCF dB	Net dB(μV/m)	Limit @3m dB(μV/m)	Margin dB

5.5 GHz, 5.52 GHz

11000	38.4	Peak	V	38.5	-12.4	0	64.5	74	-9.5
11000	25.9	Ave.	V	38.5	-12.4	0	52.0	54	-2.0
11040	37.7	Peak	V	38.5	-12.5	0	63.7	74	-10.3
11040	25.6	Ave.	V	38.5	-12.5	0	51.6	54	-2.4
16500	27.1	Ave.	V/H	40.0	-8.7	0	58.4	68.3	-9.9
16560	26.7	Ave.	V/H	40.0	-7.5	0	59.2	68.3	-9.1
22000	54.2	Peak	V/H	40.4	-47.8	0	46.8	74.0	-27.2
22000	39.6	Ave.	V/H	40.4	-47.8	0	32.2	54.0	-21.8
22080	54.8	Peak	V/H	40.4	-47.8	0	47.4	74.0	-26.6
22080	40.2	Ave.	V/H	40.4	-47.8	0	32.8	54.0	-21.2
27500	41.3	Ave.	V/H	40.4	-45.9	0	35.8	68.3	-32.5
27600	41.6	Ave.	V/H	40.4	-45.0	0	37.0	68.3	-31.3
33000	42.3	Ave.	V/H	43.5	-32.3	0	53.5	68.3	-14.8
33120	43.2	Ave.	V/H	43.5	-30.5	0	56.2	68.3	-12.1
38500	42.8	Ave.	V/H	44.8	-27.6	0	60.0	68.3	-8.3
38640	43.0	Ave.	V/H	44.8	-25.8	0	62.0	68.3	-6.3

5.6 GHz

11200	37.3	Peak	V	38.5	-12.0	0	63.8	74	-10.2
11200	25.2	Ave.	V	38.5	-12.0	0	51.7	54	-2.3
16800	27.1	Ave.	V/H	40.0	-10.4	0	56.7	68.3	-11.6
22400	54.4	Peak	V/H	40.4	-47.4	0	47.4	74	-26.6
22400	39.9	Ave.	V/H	40.4	-47.4	0	32.9	54	-21.1
28000	41.3	Ave.	V/H	40.4	-46.5	0	35.2	68.3	-33.1
33600	44	Ave.	V/H	43.5	-33.5	0	54	68.3	-14.3
39200	43.6	Ave.	V/H	44.8	-26.2	0	62.2	68.3	-6.1

5.68 GHz, 5.7 GHz

11360	35.2	Peak	V	38.5	-13.3	0	60.4	74	-13.6
11360	23.5	Ave.	V	38.5	-13.3	0	48.7	54	-5.3
11400	36.1	Peak	V	38.5	-13.0	0	61.6	74	-12.4
11400	24.6	Ave.	V	38.5	-13.0	0	50.1	54	-3.9
17040	28.6	Ave.	V/H	40.0	-6.8	0	61.8	68.3	-6.5
17100	28.5	Ave.	V/H	40.0	-6.5	0	62	68.3	-6.3
22720	54.4	Peak	V/H	40.4	-45.2	0	49.6	74.0	-24.4
22720	40.5	Ave.	V/H	40.4	-45.2	0	35.7	54.0	-18.3
22800	55.2	Peak	V/H	40.6	-44.3	0	51.5	74.0	-22.5
22800	41.2	Ave.	V/H	40.6	-44.3	0	37.5	54.0	-16.5
28400	41.5	Ave.	V/H	40.6	-46.5	0	35.6	68.3	-32.7
28500	41.6	Ave.	V/H	40.6	-43.7	0	38.5	68.3	-29.8
34080	43.2	Ave.	V/H	43.5	-30.4	0	56.3	68.3	-12.0
34200	43.7	Ave.	V/H	43.5	-27.6	0	59.6	68.3	-8.7
39760	43.9	Ave.	V/H	43.8	-26.2	0	61.5	68.3	-6.8
39900	44.3	Ave.	V/H	44.0	-24.6	0	63.7	68.3	-4.6

Only the second harmonic was detected above the noise floor. All other emissions are the noise floor which at least 4 dB below the limit

Omni Directional Antenna, model: 5054-OA-10

EUT: AP 700	Test Date: January 11, 2006	Standard	FCC 15.407(b)(3)(6)(7)
Test Mode: Tx,	Engineer: AK.	Test Distance	3 meter

Frequency MHz	Reading dB(μV)	Detector P/A/Q	Ant. Pol. H/V	Ant. Factor dB(1/m)	CF dB	DCF dB	Net dB(μV/m)	Limit @3m dB(μV/m)	Margin dB
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5.5 GHz, 5.52 GHz

11000	36.5	Peak	V	38.5	-12.4	0	62.6	74	-11.4
11000	24.4	Ave.	V	38.5	-12.4	0	50.5	54	-3.5
11040	35.6	Peak	V	38.5	-12.5	0	61.6	74	-12.4
11040	24.1	Ave.	V	38.5	-12.5	0	50.1	54	-3.9
16500	27.1	Ave.	V/H	40.0	-8.7	0	58.4	68.3	-9.9
16560	26.7	Ave.	V/H	40.0	-7.5	0	59.2	68.3	-9.1
22000	54.2	Peak	V/H	40.4	-47.8	0	46.8	74.0	-27.2
22000	39.6	Ave.	V/H	40.4	-47.8	0	32.2	54.0	-21.8
22080	54.8	Peak	V/H	40.4	-47.8	0	47.4	74.0	-26.6
22080	40.2	Ave.	V/H	40.4	-47.8	0	32.8	54.0	-21.2
27500	41.3	Ave.	V/H	40.4	-45.9	0	35.8	68.3	-32.5
27600	41.6	Ave.	V/H	40.4	-45.0	0	37.0	68.3	-31.3
33000	42.3	Ave.	V/H	43.5	-32.3	0	53.5	68.3	-14.8
33120	43.2	Ave.	V/H	43.5	-30.5	0	56.2	68.3	-12.1
38500	42.8	Ave.	V/H	44.8	-27.6	0	60.0	68.3	-8.3
38640	43.0	Ave.	V/H	44.8	-25.8	0	62.0	68.3	-6.3

5.6 GHz

11200	36.8	Peak	V	38.5	-12.0	0	63.3	74	-10.7
11200	24.4	Ave.	V	38.5	-12.0	0	50.9	54	-3.1
16800	27.1	Ave.	V/H	40.0	-10.4	0	56.7	68.3	-11.6
22400	54.4	Peak	V/H	40.4	-47.4	0	47.4	74	-26.6
22400	39.9	Ave.	V/H	40.4	-47.4	0	32.9	54	-21.1
28000	41.3	Ave.	V/H	40.4	-46.5	0	35.2	68.3	-33.1
33600	44.0	Ave.	V/H	43.5	-33.5	0	54.0	68.3	-14.3
39200	43.6	Ave.	V/H	44.8	-26.2	0	62.2	68.3	-6.1

5.68 GHz, 5.7 GHz

11360	35.3	Peak	V	38.5	-13.3	0	60.5	74	-13.5
11360	23.1	Ave.	V	38.5	-13.3	0	48.3	54	-5.7
11400	36.3	Peak	V	38.5	-13.0	0	61.8	74	-12.2
11400	24.0	Ave.	V	38.5	-13.0	0	49.5	54	-4.5
17040	28.6	Ave.	V/H	40.0	-6.8	0	61.8	68.3	-6.5
17100	28.5	Ave.	V/H	40.0	-6.5	0	62	68.3	-6.3
22720	54.4	Peak	V/H	40.4	-45.2	0	49.6	74.0	-24.4
22720	40.5	Ave.	V/H	40.4	-45.2	0	35.7	54.0	-18.3
22800	55.2	Peak	V/H	40.6	-44.3	0	51.5	74.0	-22.5
22800	41.2	Ave.	V/H	40.6	-44.3	0	37.5	54.0	-16.5
28400	41.5	Ave.	V/H	40.6	-46.5	0	35.6	68.3	-32.7
28500	41.6	Ave.	V/H	40.6	-43.7	0	38.5	68.3	-29.8
34080	43.2	Ave.	V/H	43.5	-30.4	0	56.3	68.3	-12.0
34200	43.7	Ave.	V/H	43.5	-27.6	0	59.6	68.3	-8.7
39760	43.9	Ave.	V/H	43.8	-26.2	0	61.5	68.3	-6.8
39900	44.3	Ave.	V/H	44.0	-24.6	0	63.7	68.3	-4.6

Only the second harmonic was detected above the noise floor. All other emissions are the noise floor which at least 4 dB below the limit

Sector Antenna, model: 5054-SA60-17

EUT: AP 700	Test Date: January 11, 2006	Standard	FCC 15.407(b)(3)(6)(7)						
Test Mode: Tx,	Engineer: AK.	Test Distance	3	meter					
Frequency MHz	Reading dB(μV)	Detector P/A/Q	Ant. Pol. H/V	Ant. Factor dB(1/m)	CF dB	DCF dB	Net dB(μV/m)	Limit @3m dB(μV/m)	Margin dB

5.5 GHz, 5.52 GHz

11000	35.5	Peak	V	38.5	-12.4	0	61.6	74	-12.4
11000	23.2	Ave.	V	38.5	-12.4	0	49.3	54	-4.7
11040	34.2	Peak	V	38.5	-12.5	0	60.2	74	-13.8
11040	23.4	Ave.	V	38.5	-12.5	0	49.4	54	-4.6
16500	27.1	Ave.	V/H	40.0	-8.7	0	58.4	68.3	-9.9
16560	26.7	Ave.	V/H	40.0	-7.5	0	59.2	68.3	-9.1
22000	54.2	Peak	V/H	40.4	-47.8	0	46.8	74.0	-27.2
22000	39.6	Ave.	V/H	40.4	-47.8	0	32.2	54.0	-21.8
22080	54.8	Peak	V/H	40.4	-47.8	0	47.4	74.0	-26.6
22080	40.2	Ave.	V/H	40.4	-47.8	0	32.8	54.0	-21.2
27500	41.3	Ave.	V/H	40.4	-45.9	0	35.8	68.3	-32.5
27600	41.6	Ave.	V/H	40.4	-45.0	0	37.0	68.3	-31.3
33000	42.3	Ave.	V/H	43.5	-32.3	0	53.5	68.3	-14.8
33120	43.2	Ave.	V/H	43.5	-30.5	0	56.2	68.3	-12.1
38500	42.8	Ave.	V/H	44.8	-27.6	0	60.0	68.3	-8.3
38640	43.0	Ave.	V/H	44.8	-25.8	0	62.0	68.3	-6.3

5.6 GHz

11200	36	Peak	V	38.5	-12.0	0	62.5	74	-11.5
11200	23.7	Ave.	V	38.5	-12.0	0	50.2	54	-3.8
16800	27.1	Ave.	V/H	40	-10.4	0	56.7	68.3	-11.6
22400	54.4	Peak	V/H	40.4	-47.4	0	47.4	74	-26.6
22400	39.9	Ave.	V/H	40.4	-47.4	0	32.9	54	-21.1
28000	41.3	Ave.	V/H	40.4	-46.5	0	35.2	68.3	-33.1
33600	44	Ave.	V/H	43.5	-33.5	0	54.0	68.3	-14.3
39200	43.6	Ave.	V/H	44.8	-26.2	0	62.2	68.3	-6.1

5.68 GHz, 5.7 GHz

11360	35.9	Peak	V	38.5	-13.3	0	61.1	74	-12.9
11360	23.5	Ave.	V	38.5	-13.3	0	48.7	54	-5.3
11400	37.0	Peak	V	38.5	-13.0	0	62.5	74	-11.5
11400	24.4	Ave.	V	38.5	-13.0	0	49.9	54	-4.1
17040	28.6	Ave.	V/H	40.0	-6.8	0	61.8	68.3	-6.5
17100	28.5	Ave.	V/H	40.0	-6.5	0	62	68.3	-6.3
22720	54.4	Peak	V/H	40.4	-45.2	0	49.6	74.0	-24.4
22720	40.5	Ave.	V/H	40.4	-45.2	0	35.7	54.0	-18.3
22800	55.2	Peak	V/H	40.6	-44.3	0	51.5	74.0	-22.5
22800	41.2	Ave.	V/H	40.6	-44.3	0	37.5	54.0	-16.5
28400	41.5	Ave.	V/H	40.6	-46.5	0	35.6	68.3	-32.7
28500	41.6	Ave.	V/H	40.6	-43.7	0	38.5	68.3	-29.8
34080	43.2	Ave.	V/H	43.5	-30.4	0	56.3	68.3	-12.0
34200	43.7	Ave.	V/H	43.5	-27.6	0	59.6	68.3	-8.7
39760	43.9	Ave.	V/H	43.8	-26.2	0	61.5	68.3	-6.8
39900	44.3	Ave.	V/H	44.0	-24.6	0	63.7	68.3	-4.6

Only the second harmonic was detected above the noise floor. All other emissions are the noise floor which at least 4 dB below the limit

2 Foot Flat Panel Antenna, model: FPA 5250D24N

EUT: AP 700	Test Date: January 11, 2006	Standard	FCC 15.407(b)(3)(6)(7)						
Test Mode: Tx,	Engineer: AK.	Test Distance	3	meter					
Frequency MHz	Reading dB(μV)	Detector P/A/Q	Ant. Pol. H/V	Ant. Factor dB(1/m)	CF dB	DCF dB	Net dB(μV/m)	Limit @3m dB(μV/m)	Margin dB

5.5 GHz, 5.52 GHz

11000	35.9	Peak	V	38.5	-12.4	0	62	74	-12.0
11000	23.2	Ave.	V	38.5	-12.4	0	49.3	54	-4.7
11040	35.2	Peak	V	38.5	-12.5	0	61.2	74	-12.8
11040	23.0	Ave.	V	38.5	-12.5	0	49	54	-5.0
16500	27.1	Ave.	V/H	40.0	-8.7	0	58.4	68.3	-9.9
16560	26.7	Ave.	V/H	40.0	-7.5	0	59.2	68.3	-9.1
22000	54.2	Peak	V/H	40.4	-47.8	0	46.8	74.0	-27.2
22000	39.6	Ave.	V/H	40.4	-47.8	0	32.2	54.0	-21.8
22080	54.8	Peak	V/H	40.4	-47.8	0	47.4	74.0	-26.6
22080	40.2	Ave.	V/H	40.4	-47.8	0	32.8	54.0	-21.2
27500	41.3	Ave.	V/H	40.4	-45.9	0	35.8	68.3	-32.5
27600	41.6	Ave.	V/H	40.4	-45.0	0	37.0	68.3	-31.3
33000	42.3	Ave.	V/H	43.5	-32.3	0	53.5	68.3	-14.8
33120	43.2	Ave.	V/H	43.5	-30.5	0	56.2	68.3	-12.1
38500	42.8	Ave.	V/H	44.8	-27.6	0	60.0	68.3	-8.3
38640	43.0	Ave.	V/H	44.8	-25.8	0	62.0	68.3	-6.3

5.6GHz

11200	35.7	Peak	V	38.5	-12.0	0	62.2	74	-11.8
11200	23.4	Ave.	V	38.5	-12.0	0	49.9	54	-4.1
16800	27.1	Ave.	V/H	40	-10.4	0	56.7	68.3	-11.6
22400	54.4	Peak	V/H	40.4	-47.4	0	47.4	74	-26.6
22400	39.9	Ave.	V/H	40.4	-47.4	0	32.9	54	-21.1
28000	41.3	Ave.	V/H	40.4	-46.5	0	35.2	68.3	-33.1
33600	44.0	Ave.	V/H	43.5	-33.5	0	54.0	68.3	-14.3
39200	43.6	Ave.	V/H	44.8	-26.2	0	62.2	68.3	-6.1

5.68 GHz, 5.7 GHz

11360	35.0	Peak	V	38.5	-13.3	0	60.2	74	-13.8
11360	22.3	Ave.	V	38.5	-13.3	0	47.5	54	-6.5
11400	36.1	Peak	V	38.5	-13.0	0	61.6	74	-12.4
11400	23.2	Ave.	V	38.5	-13.0	0	48.7	54	-5.3
17040	28.6	Ave.	V/H	40.0	-6.8	0	61.8	68.3	-6.5
17100	28.5	Ave.	V/H	40.0	-6.5	0	62	68.3	-6.3
22720	54.4	Peak	V/H	40.4	-45.2	0	49.6	74.0	-24.4
22720	40.5	Ave.	V/H	40.4	-45.2	0	35.7	54.0	-18.3
22800	55.2	Peak	V/H	40.6	-44.3	0	51.5	74.0	-22.5
22800	41.2	Ave.	V/H	40.6	-44.3	0	37.5	54.0	-16.5
28400	41.5	Ave.	V/H	40.6	-46.5	0	35.6	68.3	-32.7
28500	41.6	Ave.	V/H	40.6	-43.7	0	38.5	68.3	-29.8
34080	43.2	Ave.	V/H	43.5	-30.4	0	56.3	68.3	-12.0
34200	43.7	Ave.	V/H	43.5	-27.6	0	59.6	68.3	-8.7
39760	43.9	Ave.	V/H	43.8	-26.2	0	61.5	68.3	-6.8
39900	44.3	Ave.	V/H	44.0	-24.6	0	63.7	68.3	-4.6

Only the second harmonic was detected above the noise floor. All other emissions are the noise floor which at least 4 dB below the limit



8 Foot Parabolic Antenna, model: 200167

EUT: AP 700	Test Date: January 11, 2006	Standard	FCC 15.407(b)(3)(6)(7)						
Test Mode: Tx,	Engineer: AK.	Test Distance	3	meter					
Frequency MHz	Reading dB(μV)	Detector P/A/Q	Ant. Pol. H/V	Ant. Factor dB(1/m)	CF dB	DCF dB	Net dB(μV/m)	Limit @3m dB(μV/m)	Margin dB

5.5 GHz, 5.52 GHz

11000	36.3	Peak	V/H	38.5	-12.4	0	62.4	74	-11.6
11000	22.5	Ave.	V/H	38.5	-12.4	0	48.6	54	-5.4
11040	35.9	Peak	V/H	38.5	-12.5	0	61.9	74	-12.1
11040	22.0	Ave.	V/H	38.5	-12.5	0	48	54	-6.0
16500	27.1	Ave.	V/H	40.0	-8.7	0	58.4	68.3	-9.9
16560	26.7	Ave.	V/H	40.0	-7.5	0	59.2	68.3	-9.1
22000	54.2	Peak	V/H	40.4	-47.8	0	46.8	74.0	-27.2
22000	39.6	Ave.	V/H	40.4	-47.8	0	32.2	54.0	-21.8
22080	54.8	Peak	V/H	40.4	-47.8	0	47.4	74.0	-26.6
22080	40.2	Ave.	V/H	40.4	-47.8	0	32.8	54.0	-21.2
27500	41.3	Ave.	V/H	40.4	-45.9	0	35.8	68.3	-32.5
27600	41.6	Ave.	V/H	40.4	-45.0	0	37.0	68.3	-31.3
33000	42.3	Ave.	V/H	43.5	-32.3	0	53.5	68.3	-14.8
33120	43.2	Ave.	V/H	43.5	-30.5	0	56.2	68.3	-12.1
38500	42.8	Ave.	V/H	44.8	-27.6	0	60.0	68.3	-8.3
38640	43.0	Ave.	V/H	44.8	-25.8	0	62.0	68.3	-6.3

5.6 GHz

11200	35.2	Peak	V	38.5	-12.0	0	61.7	74	-12.3
11200	23	Ave.	V	38.5	-12.0	0	49.5	54	-4.5
16800	27.1	Ave.	V/H	40	-10.4	0	56.7	68.3	-11.6
22400	54.4	Peak	V/H	40.4	-47.4	0	47.4	74	-26.6
22400	39.9	Ave.	V/H	40.4	-47.4	0	32.9	54	-21.1
28000	41.3	Ave.	V/H	40.4	-46.5	0	35.2	68.3	-33.1
33600	44.0	Ave.	V/H	43.5	-33.5	0	54.0	68.3	-14.3
39200	43.6	Ave.	V/H	44.8	-26.2	0	62.2	68.3	-6.1

5.68 GHz, 5.7 GHz

11360	34.3	Peak	V	38.5	-13.3	0	59.5	74	-14.5
11360	22.0	Ave.	V	38.5	-13.3	0	47.2	54	-6.8
11400	34.6	Peak	V	38.5	-13.0	0	60.1	74	-13.9
11400	22.5	Ave.	V	38.5	-13.0	0	48	54	-6.0
17040	28.6	Ave.	V/H	40.0	-6.8	0	61.8	68.3	-6.5
17100	28.5	Ave.	V/H	40.0	-6.5	0	62	68.3	-6.3
22720	54.4	Peak	V/H	40.4	-45.2	0	49.6	74.0	-24.4
22720	40.5	Ave.	V/H	40.4	-45.2	0	35.7	54.0	-18.3
22800	55.2	Peak	V/H	40.6	-44.3	0	51.5	74.0	-22.5
22800	41.2	Ave.	V/H	40.6	-44.3	0	37.5	54.0	-16.5
28400	41.5	Ave.	V/H	40.6	-46.5	0	35.6	68.3	-32.7
28500	41.6	Ave.	V/H	40.6	-43.7	0	38.5	68.3	-29.8
34080	43.2	Ave.	V/H	43.5	-30.4	0	56.3	68.3	-12.0
34200	43.7	Ave.	V/H	43.5	-27.6	0	59.6	68.3	-8.7
39760	43.9	Ave.	V/H	43.8	-26.2	0	61.5	68.3	-6.8
39900	44.3	Ave.	V/H	44.0	-24.6	0	63.7	68.3	-4.6

All emissions are the noise floor which at least 4 dB below the limit

4.7 Radiated Emissions below 1 GHz
FCC Ref: 15.209

Procedure

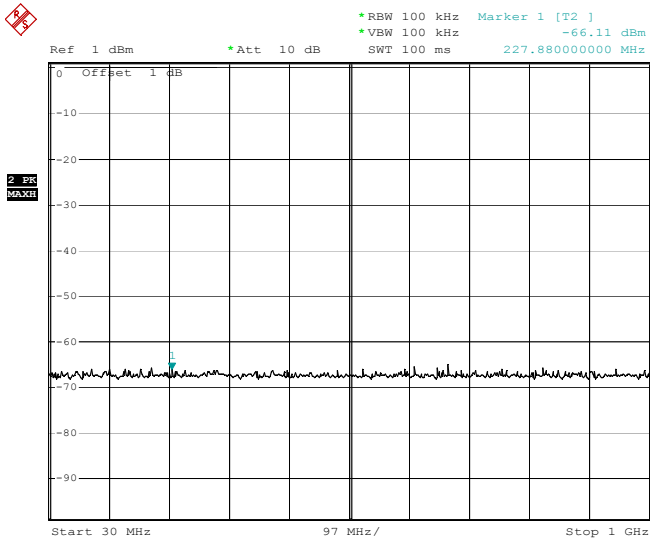
Radiated emission measurements were performed from 30 MHz to 1000 MHz. Spectrum Analyzer Resolution Bandwidth is 100 kHz or greater. See also section 4.6 for the test procedure and field strength calculation.

Prior final testing, antenna conducted emissions (peak) were measured in the 30 MHz to 1000 MHz frequency range with the Spectrum Analyzer Resolution Bandwidth of 100 kHz. The result, presented on the next page, shows that in this range no emissions were detected above the noise floor level which is less than -66 dBm. This level corresponds to the field strength level of less than 30 dB(μ V/m) at 3 m. That is at least 10 dB below the 15.209 Limit. Therefore, an antenna may not radiate in this frequency range, and there is no reason to perform radiated emission measurements with all antennas.

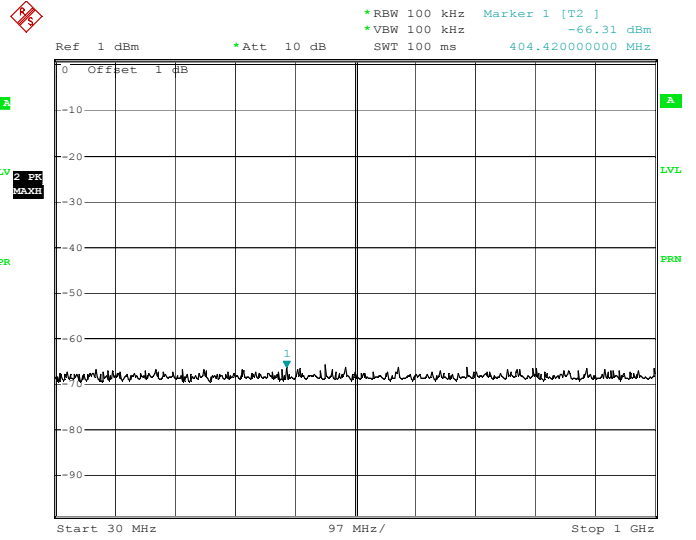
Therefore, radiated emissions were performed with one low gain antenna only with the EUT setup to transmit maximum power on three fundamental frequencies (5.5 GHz, 5.6 GHz, 5.7 GHz).

Result

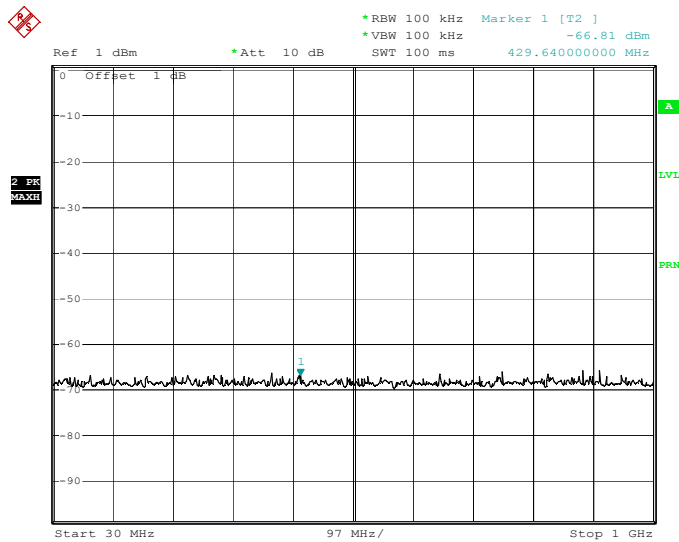
The result is presented on the following pages.
The EUT passed by 7.1dB



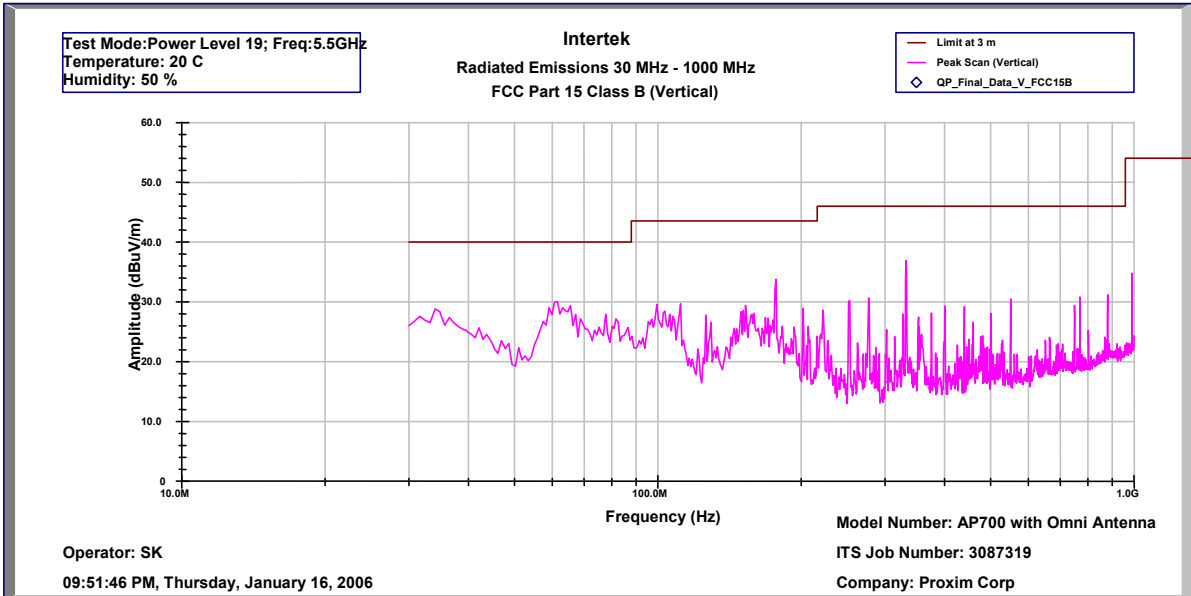
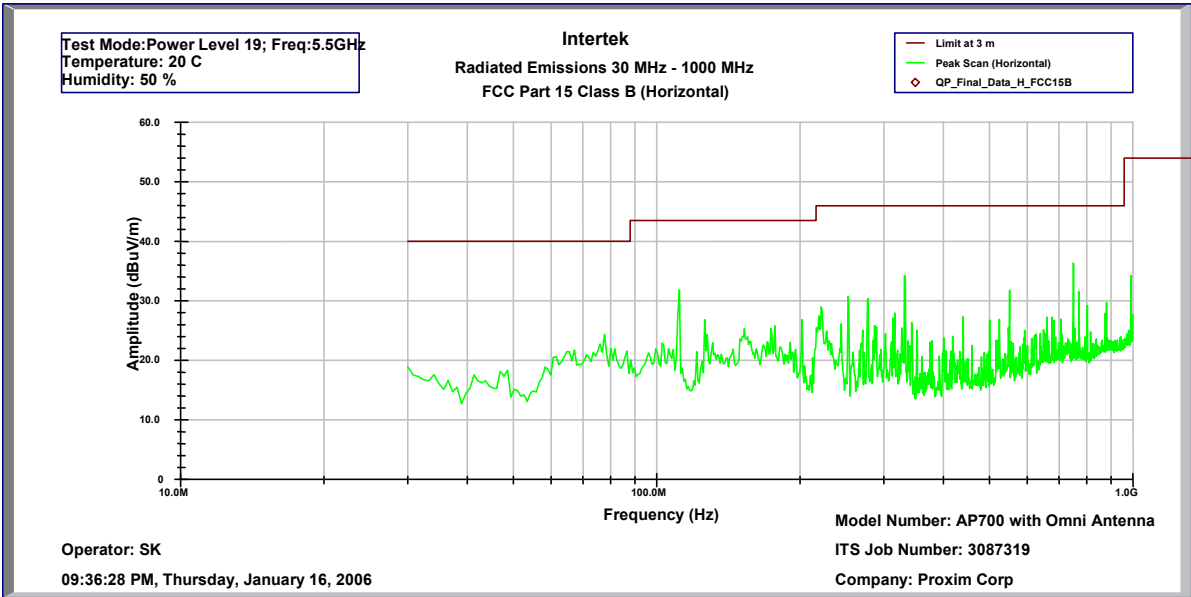
Comment: Out-of-band emissions, 5500 MHz
Date: 25.JAN.2006 09:58:17

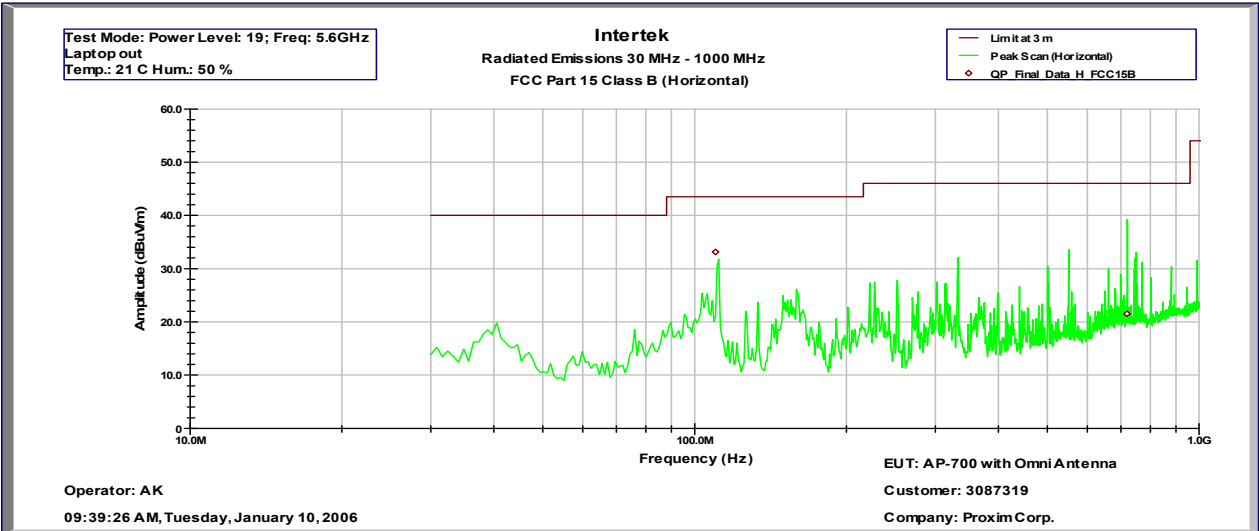


Comment: Out-of-band emissions, 5600 MHz
Date: 25.JAN.2006 10:00:18



Comment: Out-of-band emissions, 5700 MHz
Date: 25.JAN.2006 10:02:10





Intertek
Radiated Emissions 30 MHz - 1000 MHz
FCC Part 15 Class B (QP-Horizontal)

Operator: AK

Model Number: AP-700 with Omni Antenna

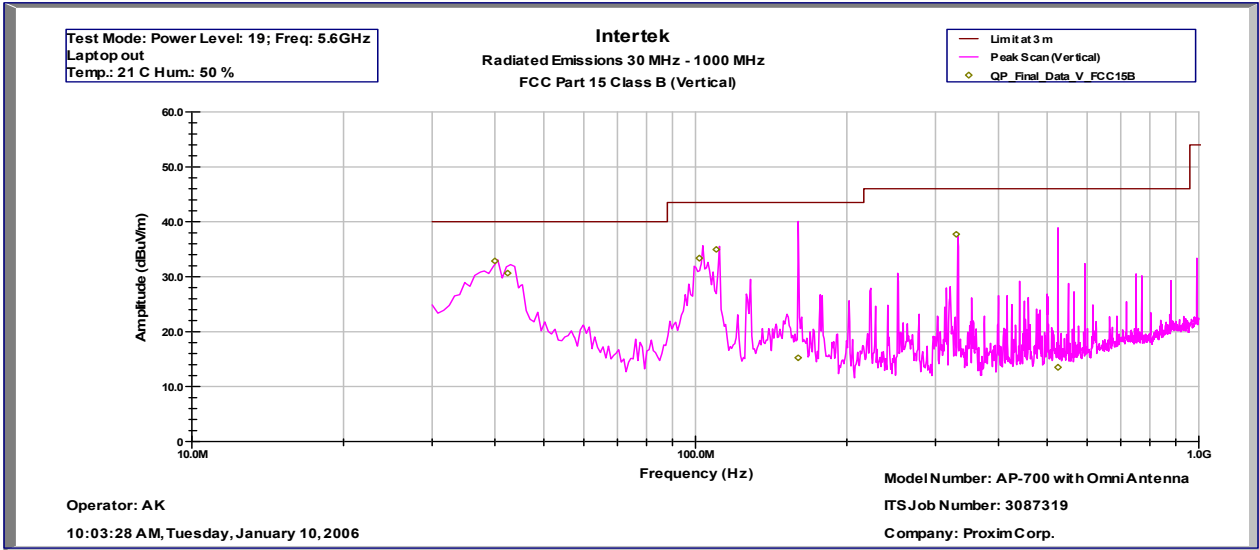
ITS Job Number: 3087319

09:39:25 AM, Tuesday, January 10, 2006.

Company: Proxim Corp

Frequency	Quasi Pk FS	Limit@3m	Margin	RA	AG	CF	AF	Atten
MHz	dB(uV/m)	dB(uV/m)	dB	dB(uV)	dB	dB	dB(1/m)	dB
110.0	33.1	43.5	-10.4	54.1	32.3	1.4	6.9	3
720.0	21.5	46	-24.5	25.0	32.6	4.1	22.0	3

Test Mode: Power Level: 19; Freq: 5.6GHz
Laptop out
Temp.: 21 C Hum.: 50 %



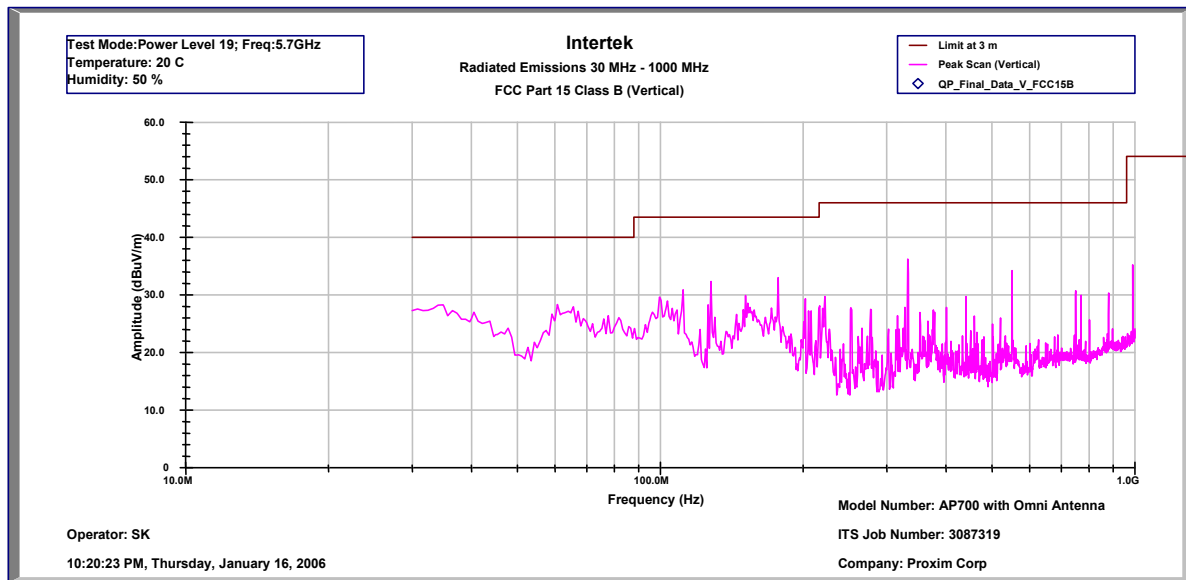
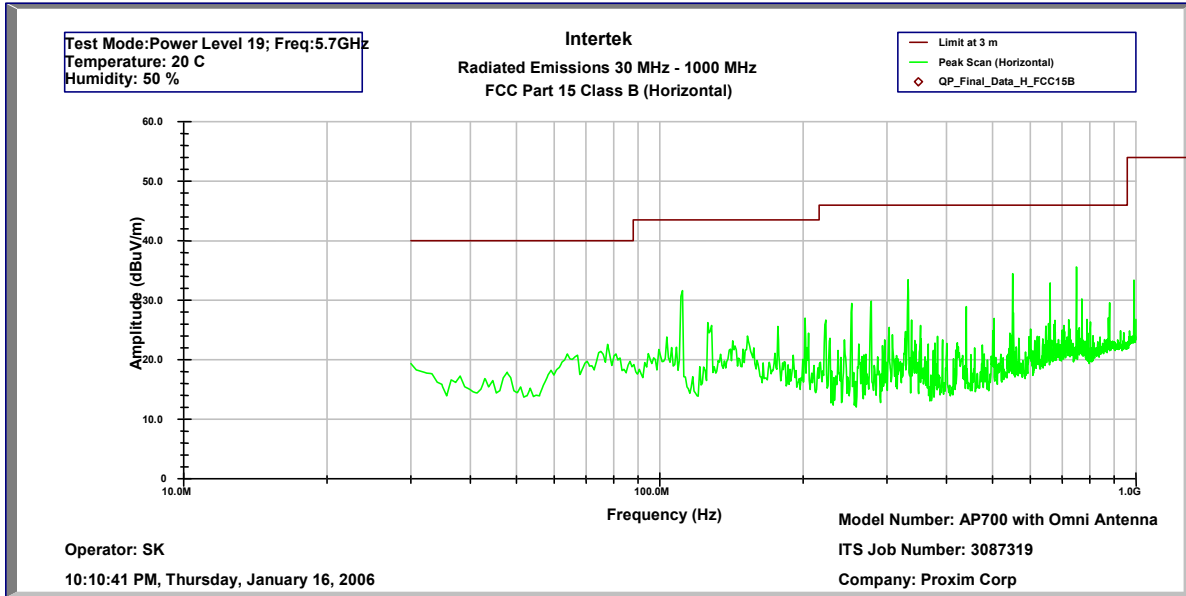
Intertek
Radiated Emissions 30 MHz - 1000 MHz
FCC Part 15 Class B (QP-Vertical)

Operator: AK
10:03:27 AM, Tuesday, January 10, 2006

Model Number: AP-700 with Omni Antenna
ITS Job Number: 3087319
Company: Proxim Corp.

Frequency MHz	Quasi Pk FS dB(uV/m)	Limit@3 dB(uV/m)	Margin dB	RA dB(uV)	AG dB	CF dB	AF dB(1/m)	Atten dB
40.0	32.9	40	-7.1	53.8	32.4	0.8	7.6	3
42.4	30.7	40	-9.3	51.2	32.4	0.9	8.0	3
102	33.4	43.5	-10.1	53.4	32.3	1.4	7.9	3
110	35.0	43.5	-8.5	56.3	32.3	1.4	6.5	3
160	15.2	43.5	-28.3	33.8	32.3	1.8	9.0	3
330	37.7	46	-8.3	50.2	32.2	2.7	14.1	3
525	13.5	46	-32.5	21.9	32.4	3.5	17.6	3

Test Mode: Power Level: 19; Freq: 5.6GHz
Laptop out
Temp.: 21 C Hum.: 50 %



4.8 AC Line Conducted Emissions
FCC Rule 15.207:

Requirement

The following line conducted emission limits apply to Class B devices:

Frequency Band MHz	Class B Limit, dB (μ V)	
	Quasi-Peak	Average
0.15-0.50	66 to 56 Decreases linearly with the logarithm of the frequency	56 to 46 Decreases linearly with the logarithm of the frequency
0.50-5.00	56	46
5.00-30.00	60	50

Note: At the transition frequency the lower limit applies.

Test Procedure

These measurements were performed in accordance with the test arrangements and methods defined in ANSI C63-4 (2003).

Measurements are carried out using quasi-peak and average detector receivers in accordance with CISPR 16. A LISN is required to provide a defined impedance at high frequencies across the power feed at the point of measurement of terminal voltage and also to provide isolation of the circuit under test from the ambient noise on the power lines. A LISN as defined in CISPR 16 shall be used.

The EUT is located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8m.

Where a flexible mains cord is provided by the manufacturer, this shall be 1m long or if in excess of 1m, the excess cable is folded back and forth as far as possible so as to form a bundle not exceeding 0.4m in length.

The EUT is arranged and connected with cables terminated in accordance with the product specification.

Conducted disturbance is measured between the phase lead and the reference ground, and between the neutral lead and the reference ground. Both measured values are reported.

The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. A vertical, metal reference plane is placed 0.4m from the EUT. The vertical metal reference-plane is at least 2m by 2m. The EUT shall be kept at least 0.8m from any other metal surface or other ground plane not being part of the EUT. The table is constructed of non-conductive materials. Its dimensions are 1m by 1.5m, but may be extended for larger EUT.

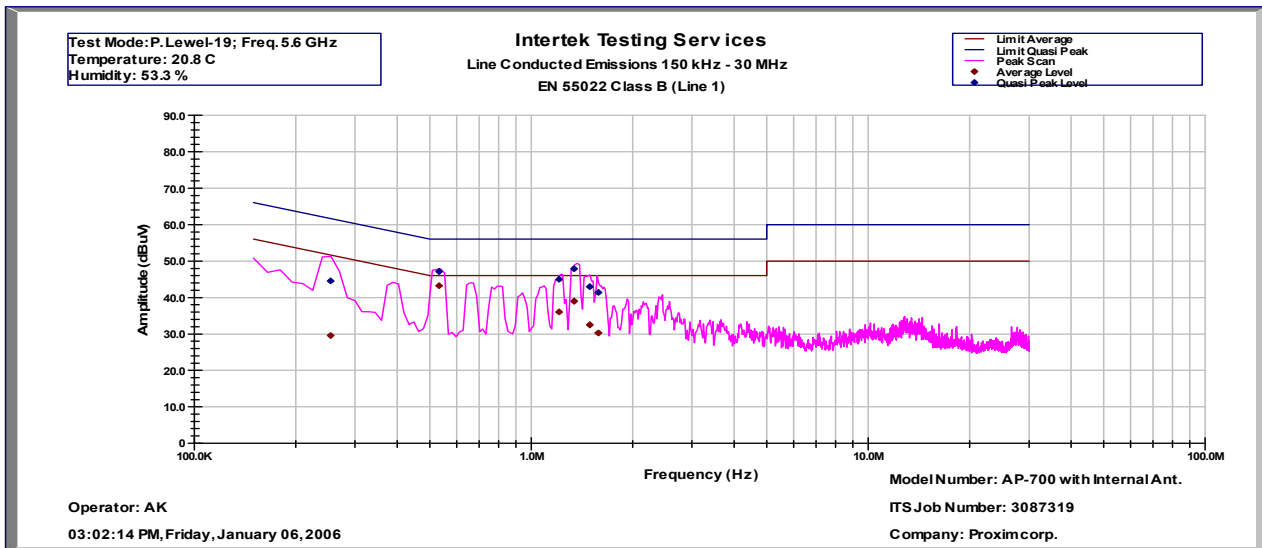


Floor standing EUTs are placed on a horizontal metal ground plane and isolated from the ground plane by 3 to 12 mm of insulating material. The metal ground plane extends at least 0.5m beyond the boundaries of the EUT and has minimum dimensions of 2m by 2m.

Test Result

The test result is presented on the following pages.

The EUT passed by 2.8 dB



Intertek Testing Services
Line Conducted Emissions 150 kHz - 30 MHz
EN 55022 Class B (Line 1)

Operator: AK

Model Number: AP-700 with Internal Ant.

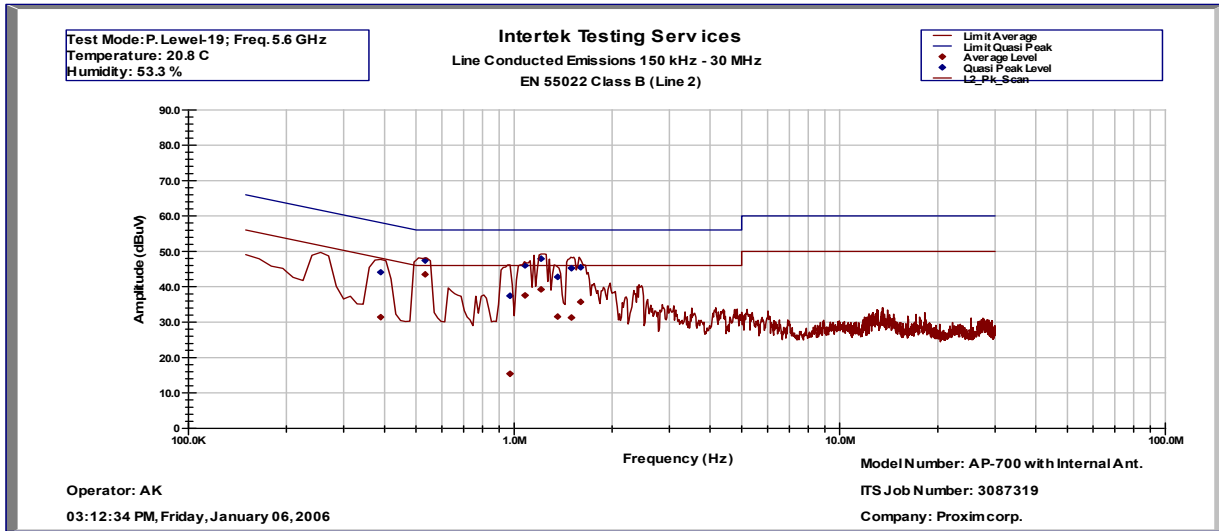
03:02:14 PM, Friday, January 06, 2006

ITS Job Number: 3087319

Company: Proxim corp.

Frequency MHz	Av Level (dBuV)	QP Level (dBuV)	Av Limit (dBuV)	QP Limit (dBuV)	Av Margin dB	QP Margin dB
0.254	29.5	44.5	53	63	-23.5	-18.5
0.533	43.2	47.2	46	56	-2.8	-8.8
1.21	36.0	45.0	46	56	-10.0	-11.0
1.34	39.0	47.9	46	56	-7.0	-8.1
1.49	32.5	43.0	46	56	-13.5	-13.0
1.58	30.2	41.4	46	56	-15.8	-14.6

Test Mode: P. Lewel-19; Freq. 5.6 GHz
Temperature: 20.8 C
Humidity: 53.3 %



Intertek Testing Services
Line Conducted Emissions 150 kHz - 30 MHz
EN 55022 Class B (Line 2)

Operator: AK

03:12:34 PM, Friday, January 06, 2006

Model Number: AP-700 with Internal Ant.
ITS Job Number: 3087319
Company: Proxim corp.

Frequency MHz	Av Level (dBuV)	QP Level (dBuV)	Av Limit (dBuV)	QP Limit (dBuV)	Av Margin (dBuV)	QP Margin (dBuV)
0.389	31.4	44.1	49.2	59.2	-17.7	-15.1
0.533	43.5	47.4	46	56	-2.5	-8.6
0.971	15.4	37.4	46	56	-30.6	-18.6
1.08	37.5	46.0	46	56	-8.5	-10.0
1.21	39.2	47.9	46	56	-6.8	-8.1
1.36	31.5	42.8	46	56	-14.5	-13.2
1.50	31.3	45.2	46	56	-14.7	-10.8
1.60	35.7	45.5	46	56	-10.3	-10.5

Test Mode:P. Lewel-19; Freq. 5.6 GHz
Temperature: 20.8 C
Humidity: 53.3 %

5.0 List of Test Equipment

Measurement equipment used for emission compliance testing utilized the equipment on the following list:

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. INTERVAL	CAL. DUE
EMI Receiver	Hewlett Packard	8546A	3710A00373	12	09/12/06
Spectrum Analyzer	R & S	FSP40	036612004	12	03/10/06
Signal Generator	Hewlett Packard	83732A	3222A00119	12	03/21/06
BI-Log Antenna	EMCO	3143	9509-1160	12	11/29/06
Horn Antenna	EMCO	3115	8812-3049	12	04/29/06
Horn Antenna	EMCO	3160-09	Not Labeled	#	#
Horn Antenna	EMCO	3160-10	Not Labeled	#	#
Pre-Amplifier	Sonoma Inst.	310	185634	12	07/05/06
Pre-Amplifier	Miteq	AMF-4D-001180-24-10P	799159	12	03/29/06
Pre-Amplifier	Miteq	JSD44-1800-40000-30-5P	1071636	12	08/18/06
LISN	FCC	FCC-LISN-50-50-M-H	2011	12	04/21/06

No Calibration required

6.0 Document History

Revision/ Job Number	Writer Initials	Date	Change
1.0 / 3087319 & 3090394	DC	January 31, 2006	Original document