

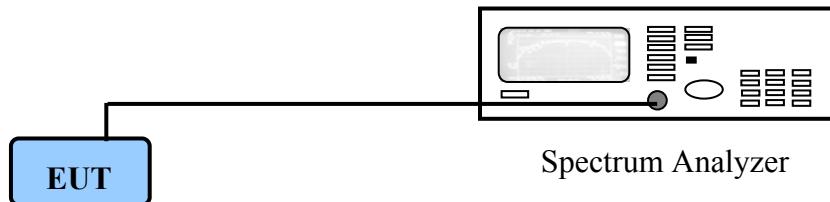
V. Section 15.407(a)(1): Maximum Conducted Output Power

5.1 Test Condition & Setup

The test is performed accordance with FCC Public Notice: APPENDIX A Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices – Part 15, Subpart E, August 2002.(FCC Public Notice DA02-2138A1)

The transmitter output operates continuously therefore Method # 3 is used.

5.2 Test Instruments Configuration



PC to control the EUT at maximal power output and channel number and set antenna kit

1. The output of the transmitter is connected to the Spectrum Analyzer.
2. The calibration is performed before every test. The values of the output power of the EUT will shown in the dBm directly are the transmitter output maximum power. Recording as follows.

5.3 List of Test Instruments

Instrument Name	Model No.	Brand	Serial No.	Next time
Spectrum Analyzer	MS2665C	ANRITSU	6200175476	12/19/09

5.4 Test Result

Formula:

$$\text{RF Output of EUT} + |\text{Cable Loss}| = \text{Output Peak Power}$$

**IEEE 802.11a: Operated at 5150 MHz to 5250 MHz
Antenna#1**

Frequencies (MHz)	Output Level	Cable Loss	Limit	Output Peak Power	
	dBm	dBm	dBm	dBm	mW
5180	10.43	1.00	17.00	11.43	13.90
5200	10.52	1.00	17.00	11.52	14.19
5240	10.64	1.00	17.00	11.64	14.59

Antenna#2

Frequencies (MHz)	Output Level	Cable Loss	Limit	Output Peak Power	
	dBm	dBm	dBm	dBm	mW
5180	10.13	1.00	17.00	11.13	12.97
5200	10.53	1.00	17.00	11.53	14.22
5240	10.65	1.00	17.00	11.65	14.62

Limit: For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or 4 dBm + 10 log B, where B is the 26-dB emission bandwidth in MHz.

Frequencies (MHz)	Output Level	Cable Loss	Ant. Gain	Limit	Output Peak Power	
	dBm	dBm	dBi	dBm	dBm	mW
5180	10.13	1.00	7.74	(17-1.74)15.2 6	11.13	12.97
5200	10.53	1.00	7.88	(17-1.88)15.1 2	11.53	14.22
5240	10.65	1.00	7.88	(17-1.88)15.1 2	11.65	14.62

Limit: According to 15.407 (a)(1) and (2), the maximum gain of antenna #2 including 7.74 dBi of operated at frequency 5180 MHz and 7.88 dBi of operated at frequencies 5200 MHz and 5240 MHz which are higher than 6dBi, so the limits of output power of each channel shall be reduced by 1.74 dB and 1.88 dB accordingly.

IEEE 802.11a 20M

Frequencies (MHz)	Output Level		Cable Loss	Limit	Total Output Peak Power	
	Ant#1	Ant#2			dBm	dBm
	dBm	dBm	dB	dBm	dBm	mW
5180	10.28	6.37	1.00	17.00	12.76	18.88
5200	10.01	5.94	1.00	17.00	12.45	17.56
5240	10.14	6.37	1.00	17.00	12.66	18.46

5180	9.52	5.51	1.00	(17-1.74)15.2 6	11.97	15.74
5200	9.07	4.97	1.00	(17-1.88)15.1 2	11.49	14.09
5240	9.14	5.09	1.00	(17-1.88)15.1 2	11.58	14.39

IEEE 802.11a 40M

Frequencies (MHz)	Output Level		Cable Loss	Limit	Total Output Peak Power	
	Ant#1	Ant#2			dBm	dBm
	dBm	dBm	dB	dBm	dBm	mW
5190	12.55	11.93	1.00	17.00	16.26	42.27
5230	12.38	12.33	1.00	17.00	16.37	43.30

5190	11.51	10.16	1.00	(17-1.74)15.26	14.90	30.89
5230	11.23	10.07	1.00	(17-1.88)15.12	14.70	29.50

Limit:

- For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or $4 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz.
- According to 15.407 (a)(1) and (2), the maximum gain of antenna #2 including 7.74 dBi of operated at frequency 5190 MHz and 7.88 dBi of operated at frequency 5200 MHz, 5230 MHz and 5240 MHz which are higher than 6dBi, so the limits of output power of each channel shall be reduced by 1.74 dB and 1.88 dB accordingly.

IEEE 802.11a: Operated at 5725 MHz to 5825 MHz**Antenna#1**

Frequencies (MHz)	Output Level	Cable Loss	Limit	Output Peak Power	
	dBm	dBm	dBm	dBm	mW
5745	10.12	1.00	30.00	11.12	12.94
5785	10.17	1.00	30.00	11.17	13.09
5805	10.52	1.00	30.00	11.52	14.19

Antenna#2

Frequencies (MHz)	Output Level	Cable Loss	Limit	Output Peak Power	
	dBm	dBm	dBm	dBm	mW
5745	8.42	1.00	30.00	9.42	8.75
5785	8.74	1.00	30.00	9.74	9.42
5805	8.49	1.00	30.00	9.49	8.89

Limit: For the band 5.725-5.825 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1W or $17 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz.

Frequencies (MHz)	Output Level	Cable Loss	Ant. Gain	Limit	Output Peak Power	
	dBm	dBm	dBi	dBm	dBm	mW
5745	8.42	1.00	6.29	(30-0.29)29.7 1	9.42	8.75
5785	8.74	1.00	6.29	(30-0.29)29.7 1	9.74	9.42
5805	8.49	1.00	5.33	(30-0.00)30.0 0	9.49	8.89

Limit: According to 15.407 (a)(1) and (2), the maximum gain of antenna #2 including 6.29 dBi operated at frequencies 5745 MHz and 5785 MHz which is higher than 6dBi, so the limits of output power of each channel (5745 MHz and 5785 MHz) shall be reduced by 0.29 dB accordingly. Antenna gain of operated frequency 5805 MHz is 5.33dBi.

IEEE 802.11a 20M

Frequencies (MHz)	Output Level		Cable Loss	Limit	Total Output Peak Power	
	Ant#1	Ant#2			dBm	mW
	dBm	dBm	dB	dBm	dBm	mW
5745	10.29	9.43	1.00	30.00	13.89	24.50
5785	12.16	10.73	1.00	30.00	15.51	35.60
5805	11.29	10.07	1.00	30.00	14.73	29.74

5745	10.29	9.43	1.00	(30-0.29) 29.71	13.89	24.50
5785	12.16	10.73	1.00	(30-0.29) 29.71	15.51	35.60
5805	11.29	10.07	1.00	(30-0.00) 30.00	14.73	29.74

IEEE 802.11a 40M

Frequencies (MHz)	Output Level		Cable Loss	Limit	Total Output Peak Power	
	Ant#1	Ant#2			dBm	mW
	dBm	dBm	dB	dBm	dBm	mW
5755	10.24	8.97	1.00	30.00	13.66	23.24
5795	10.48	8.09	1.00	30.00	13.46	22.17

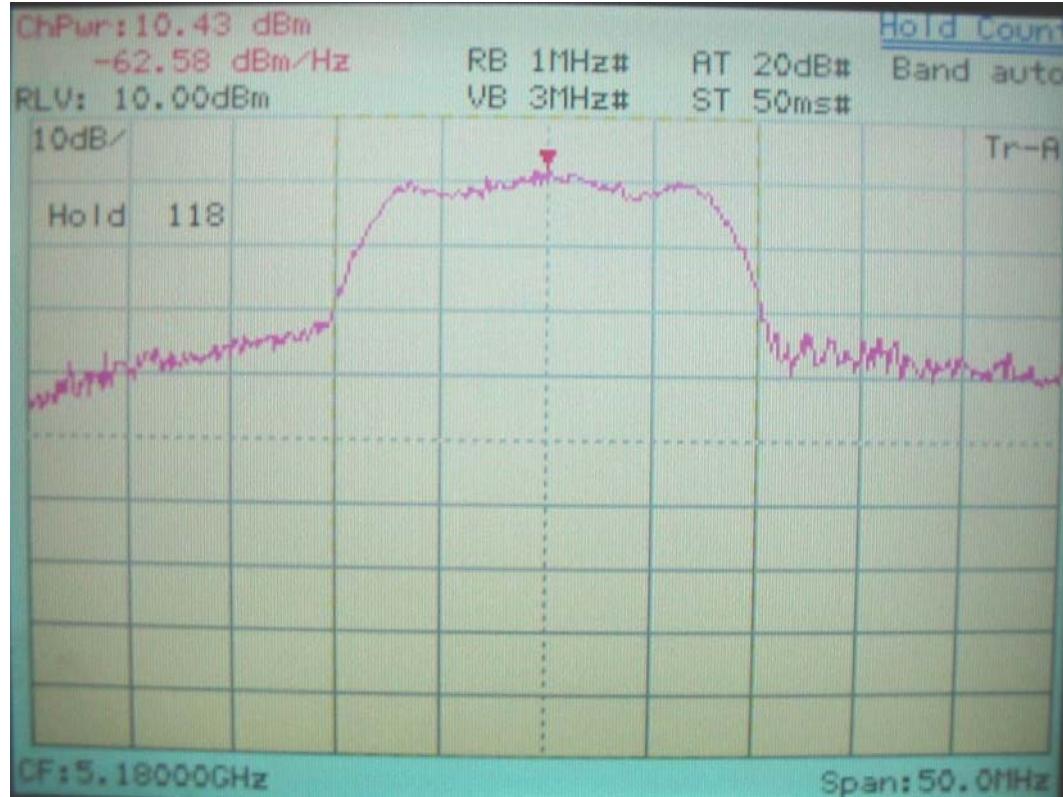
5755	10.24	8.97	1.00	(30-0.29) 29.71	13.66	23.24
5795	10.48	8.09	1.00	(30-0.00) 30.00	13.46	22.17

Limit:

1. For the band 5.725-5.825 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1W or 17 dBm + 10 log B, where B is the 26-dB emission bandwidth in MHz.
2. According to 15.407 (a)(1) and (2), the maximum gain of antenna #2 including 6.29 dBi operated at frequencies 5745 MHz, 5755 MHz and 5785 MHz which is higher than 6dBi, so the limits of output power of each channel (5745 MHz, 5755 MHz and 5785 MHz) shall be reduced by 0.29 dB accordingly. Antenna gain of operated frequency 5795 MHz and 5805 MHz is 5.33dBi.

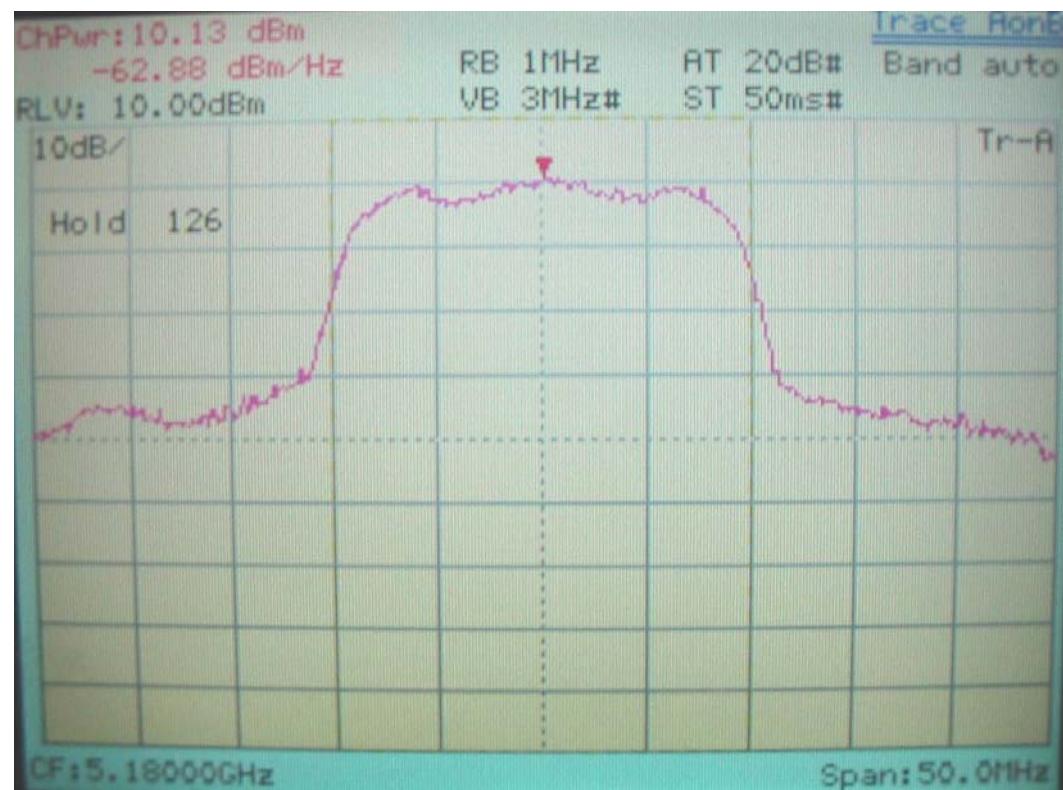
Conducted Output Power for IEEE 802.11a, 5180MHz

Limit: 17.00dBm



Ant#1

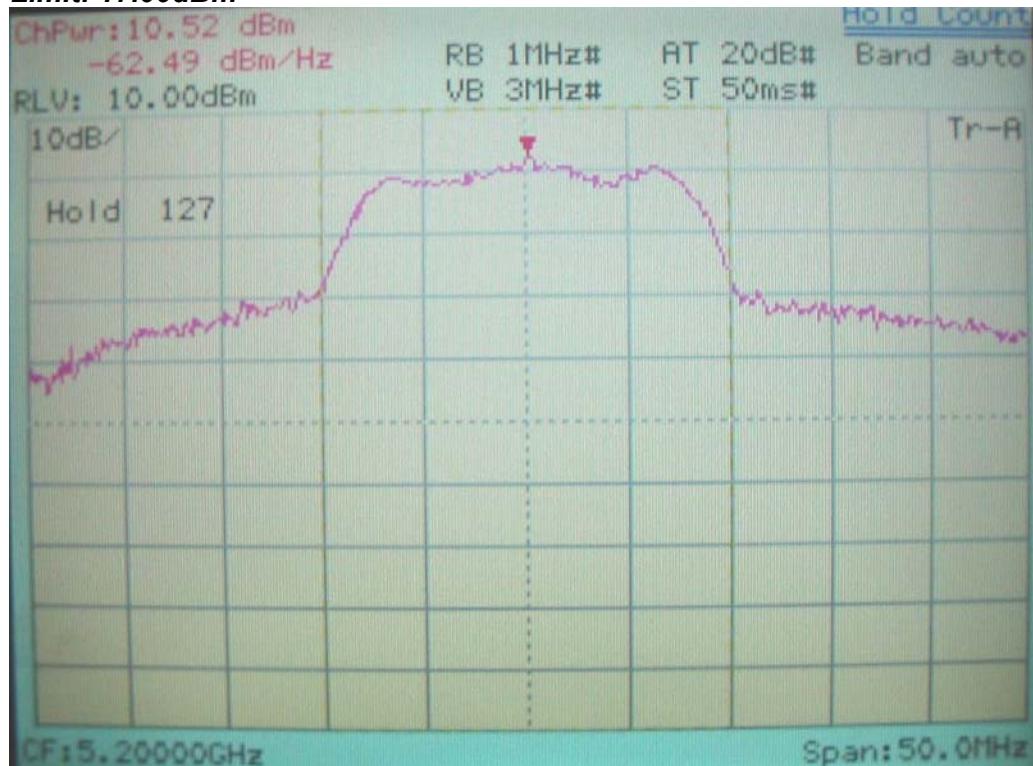
Limits: 17.00dBm; 15.26dBm



Ant#2

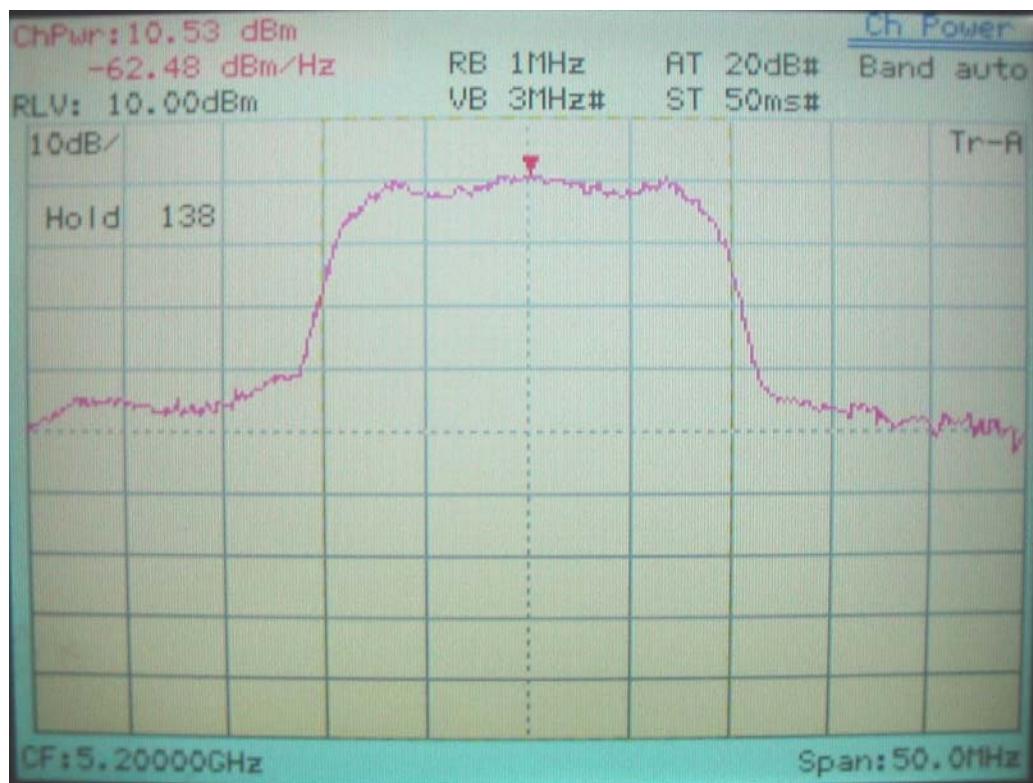
Conducted Output Power for IEEE 802.11a, 5200MHz

Limit: 17.00dBm



Ant#1

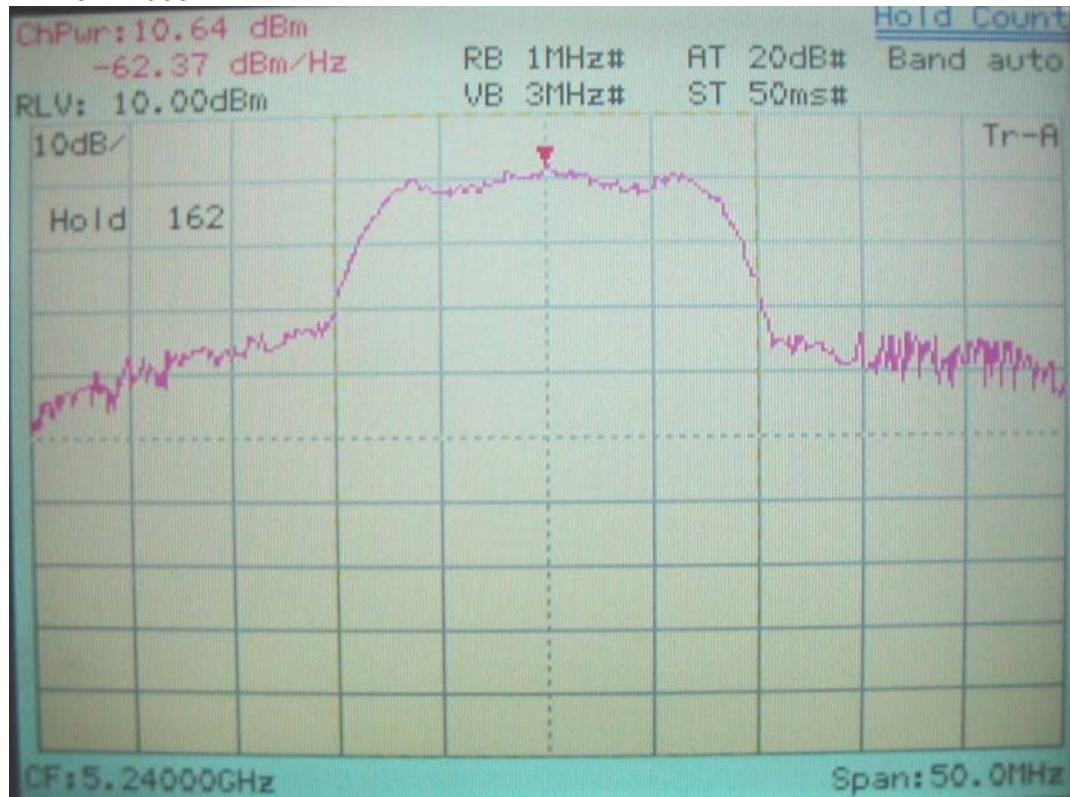
Limits: 17.00dBm; 15.12dBm



Ant#2

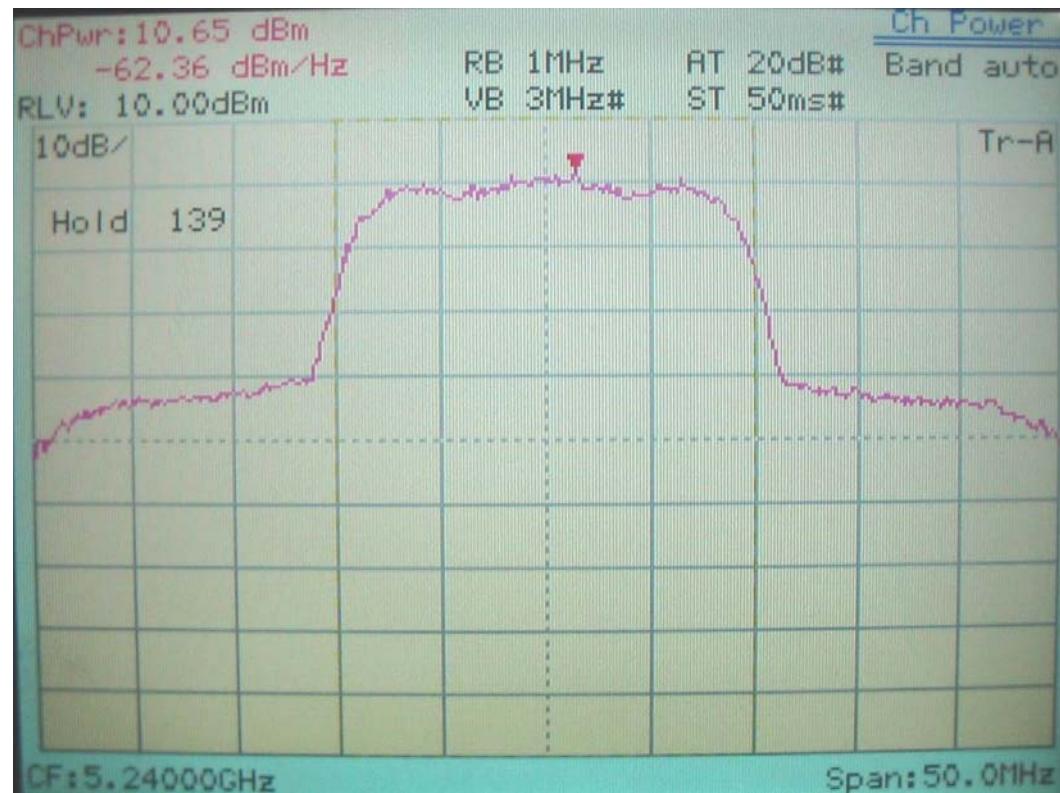
Conducted Output Power for IEEE 802.11a, 5240MHz

Limit: 17.00dBm

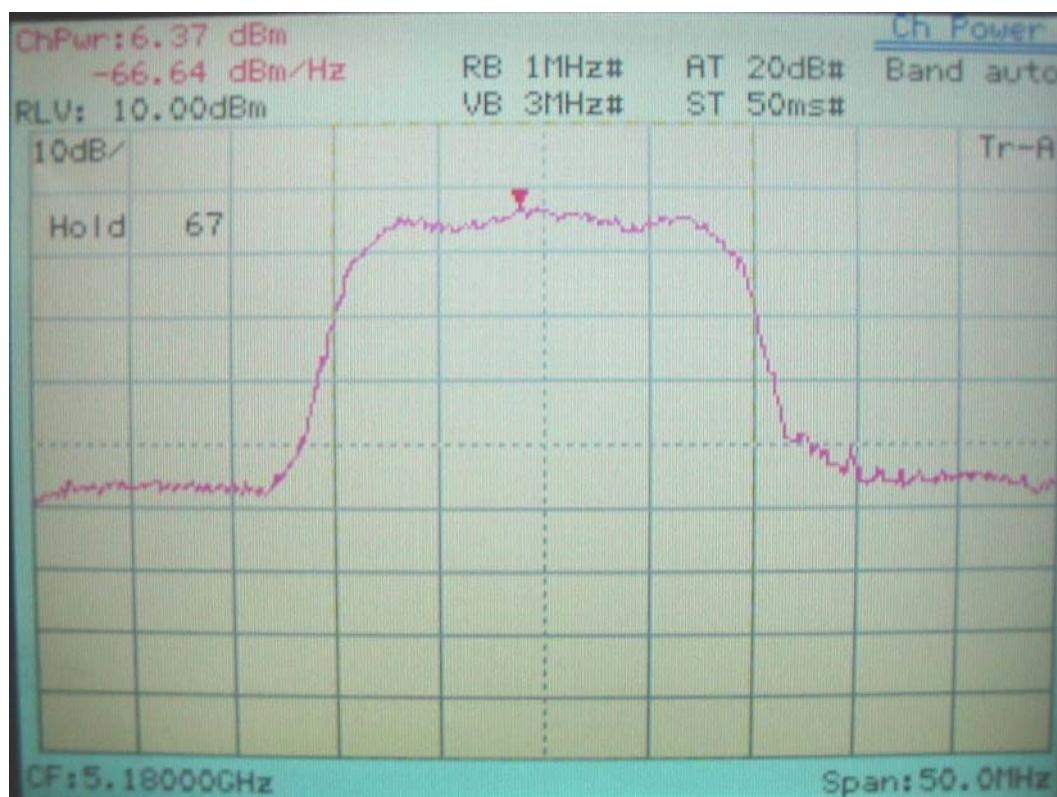


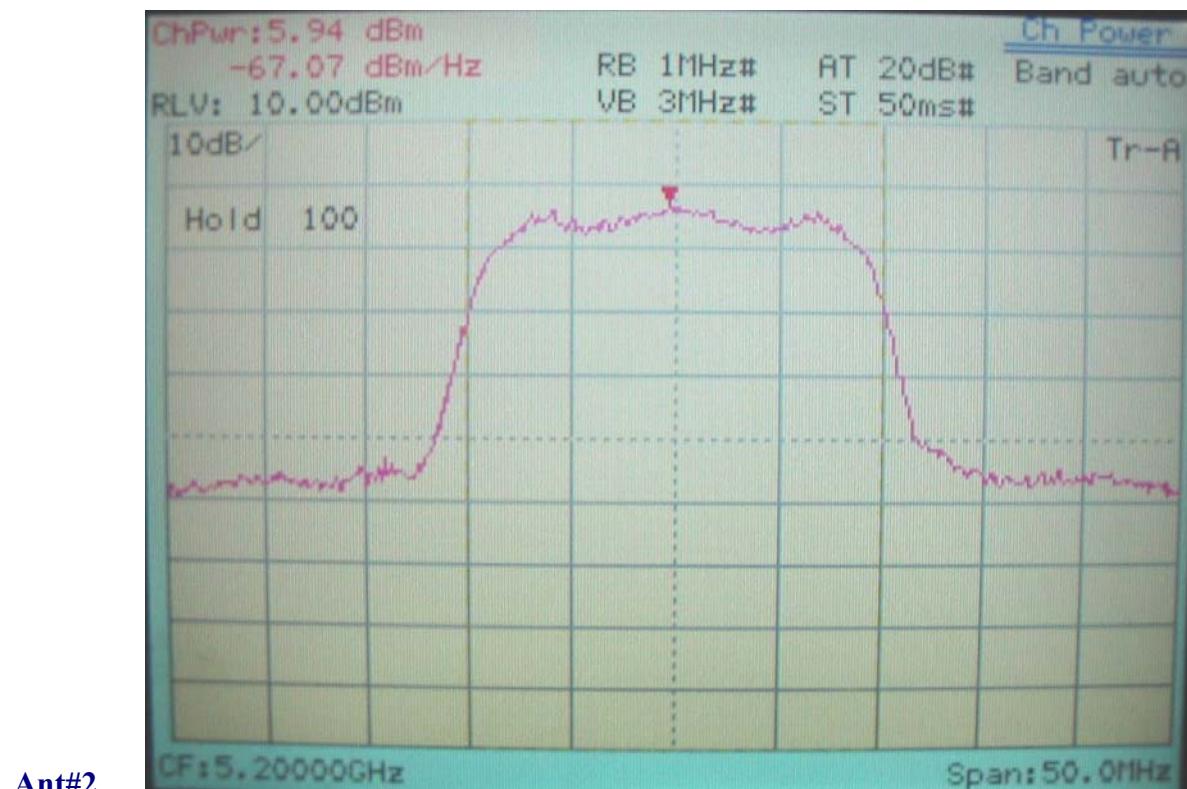
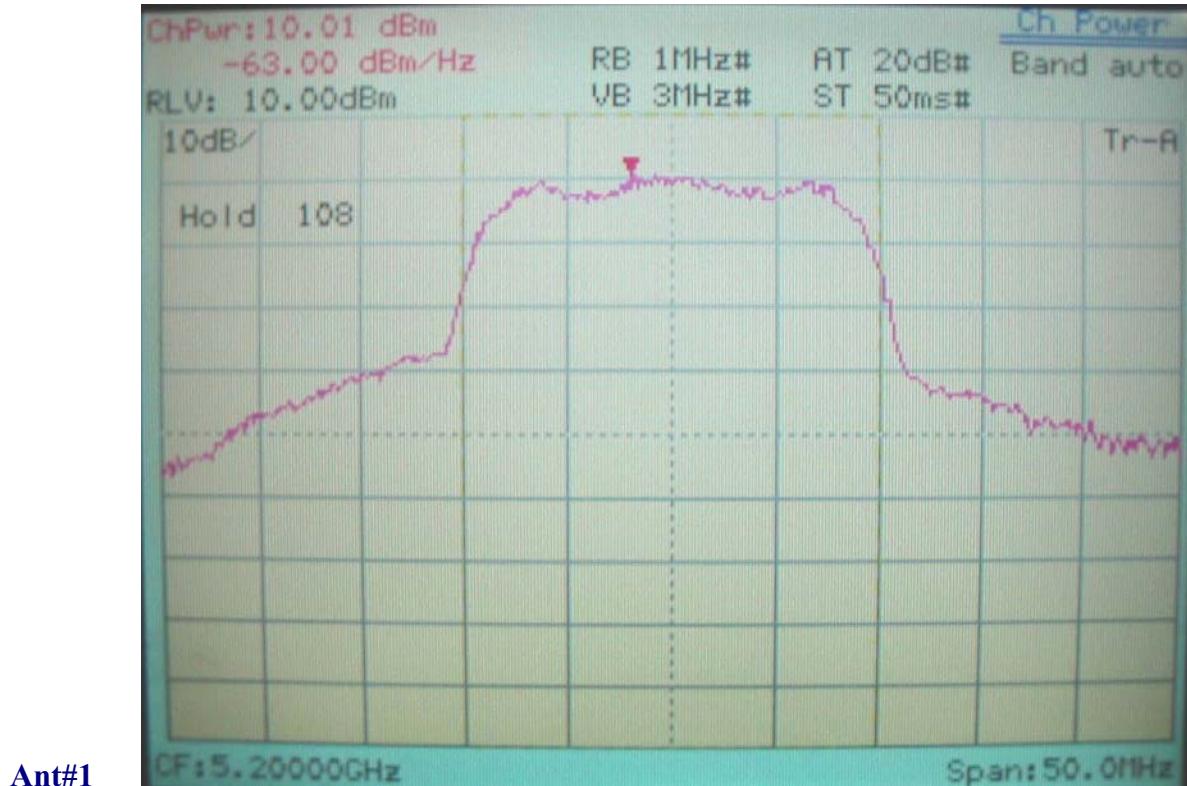
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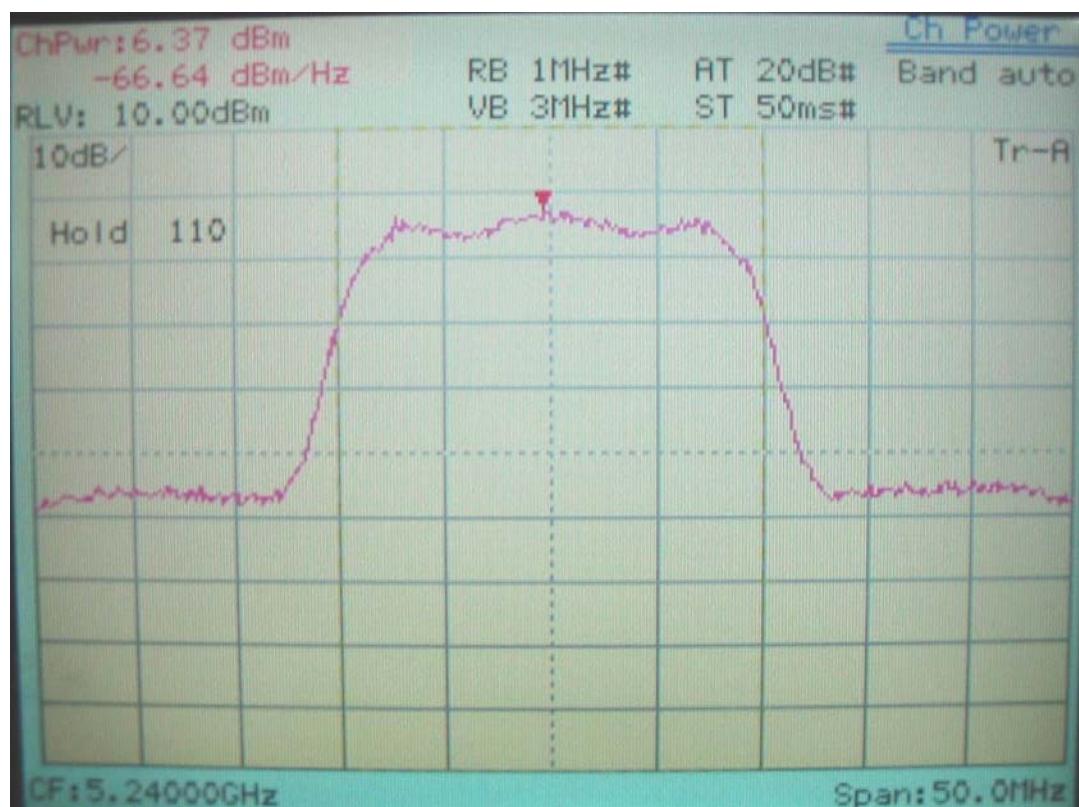
Limits: 17.00dBm; 15.12dBm



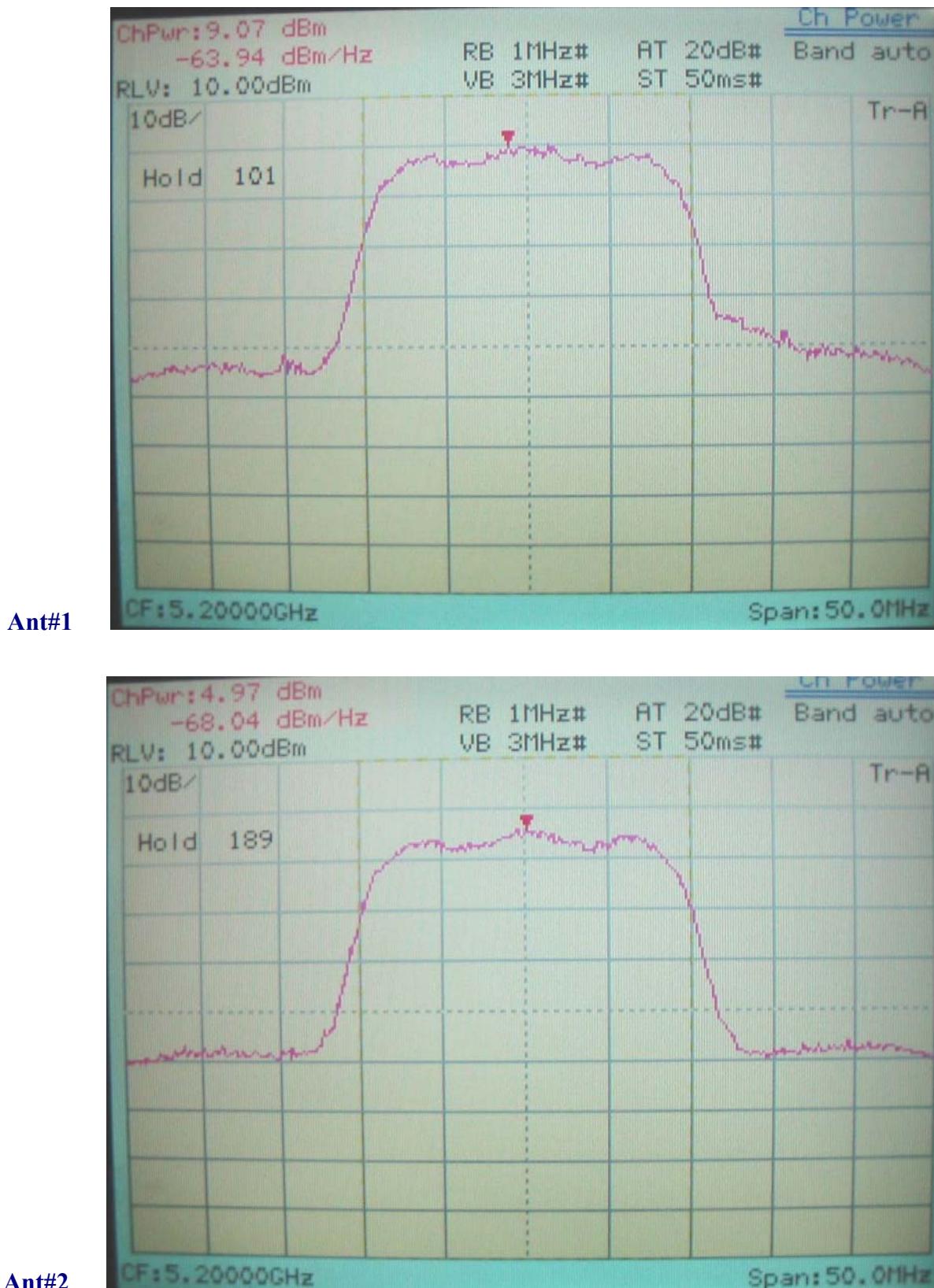
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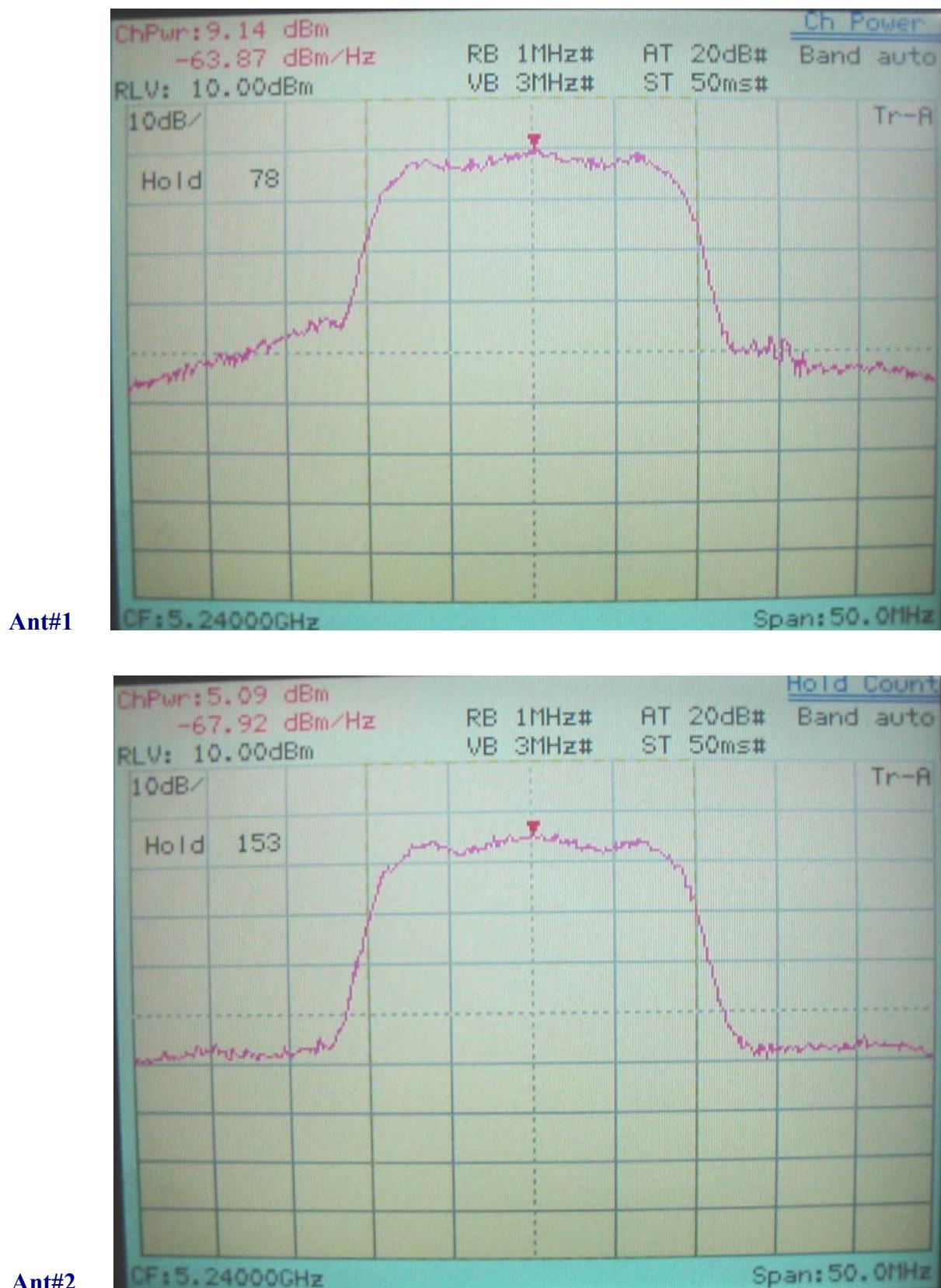
Conducted Output Power for IEEE 802.11a 20M, 5180MHz (Limit: 17.00dBm)

Conducted Output Power for IEEE 802.11a 20M, 5200MHz (Limit: 17.00dBm)

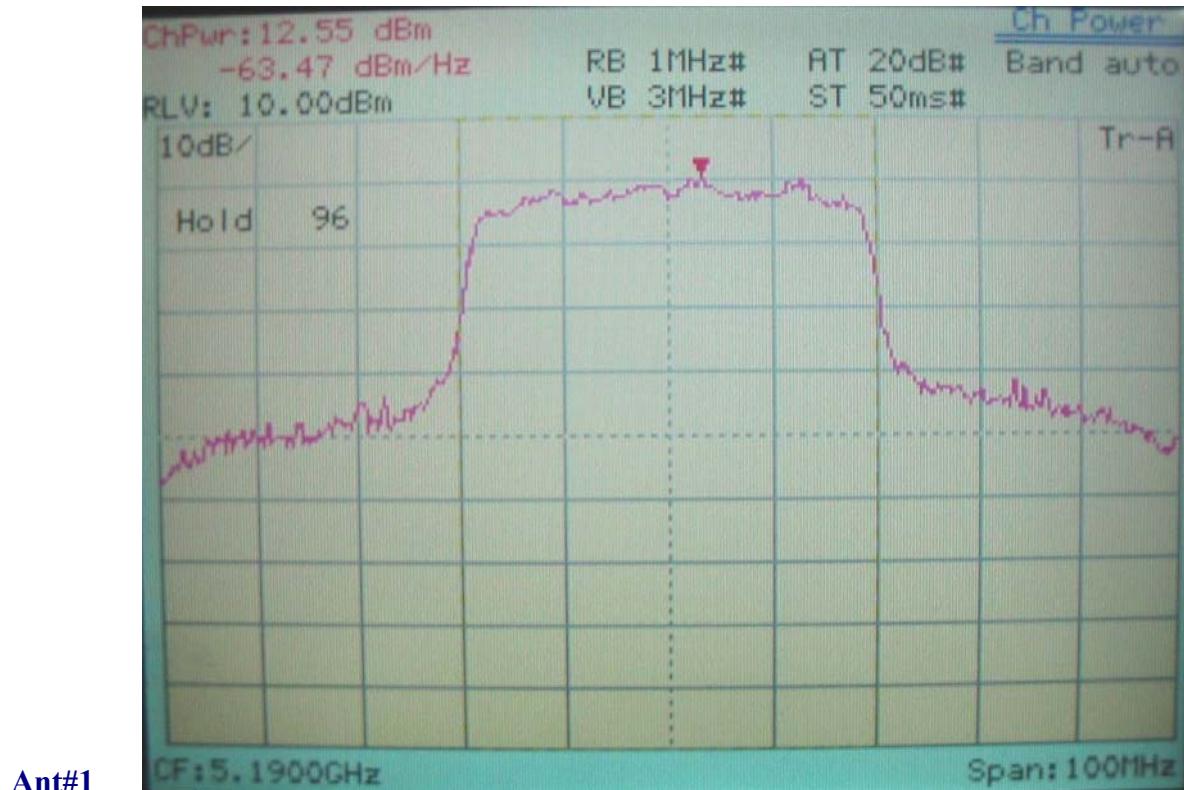
Conducted Output Power for IEEE 802.11a 20M, 5240MHz (Limit: 17.00dBm)

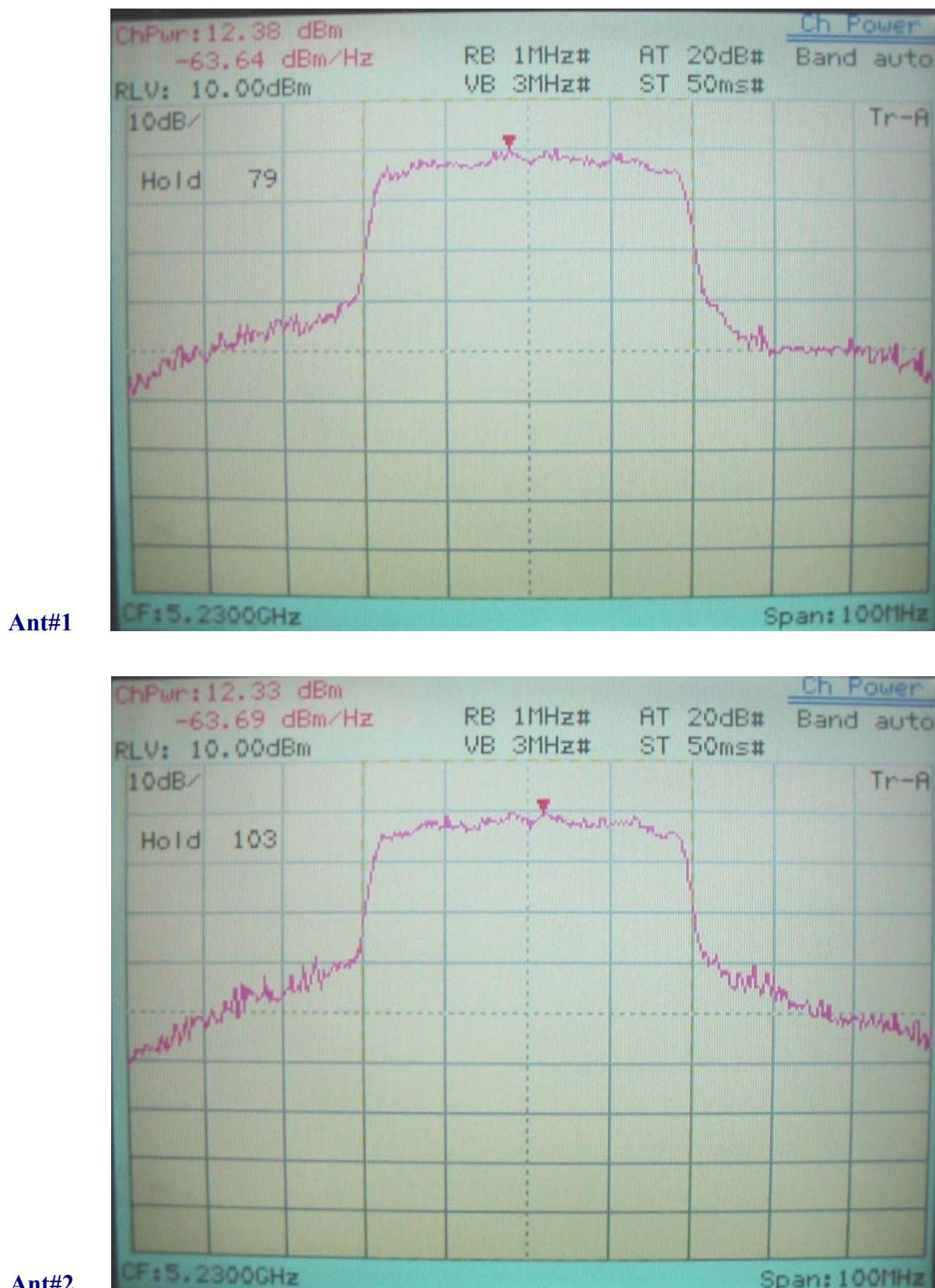
Conducted Output Power for IEEE 802.11a 20M, 5180MHz (Limit: 15.26dBm)

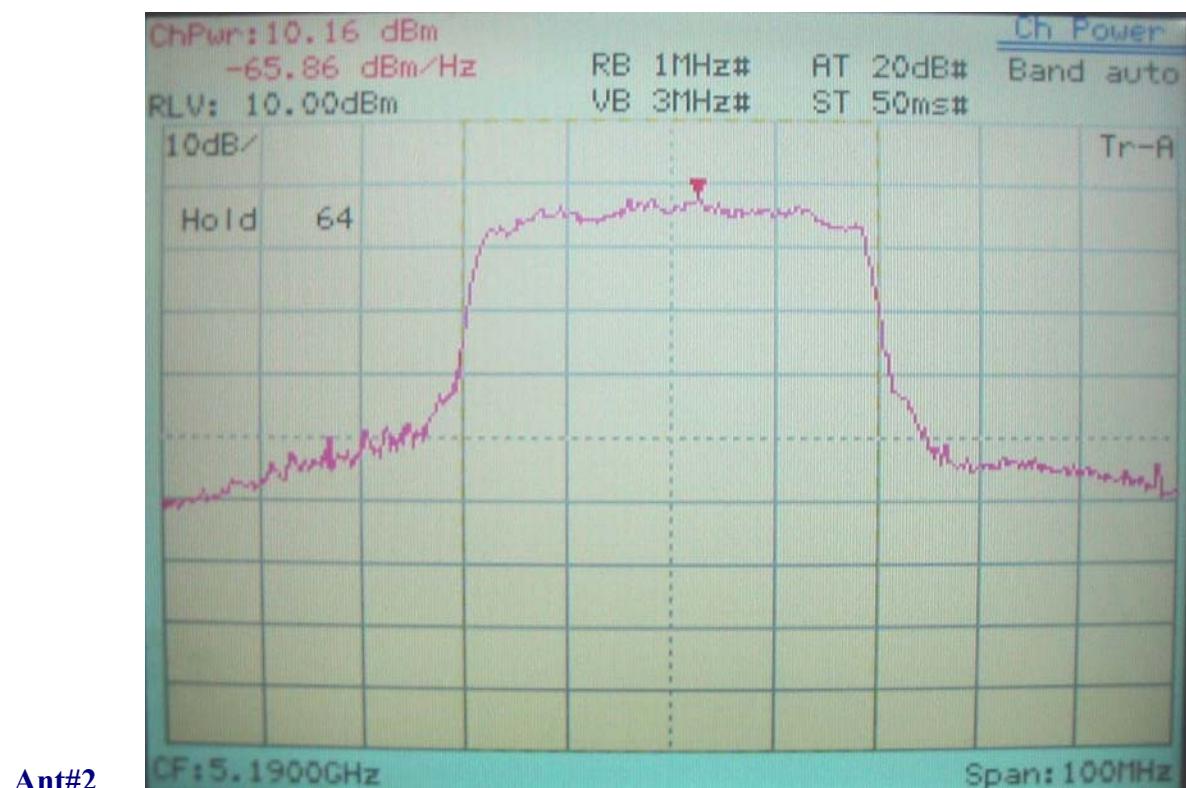
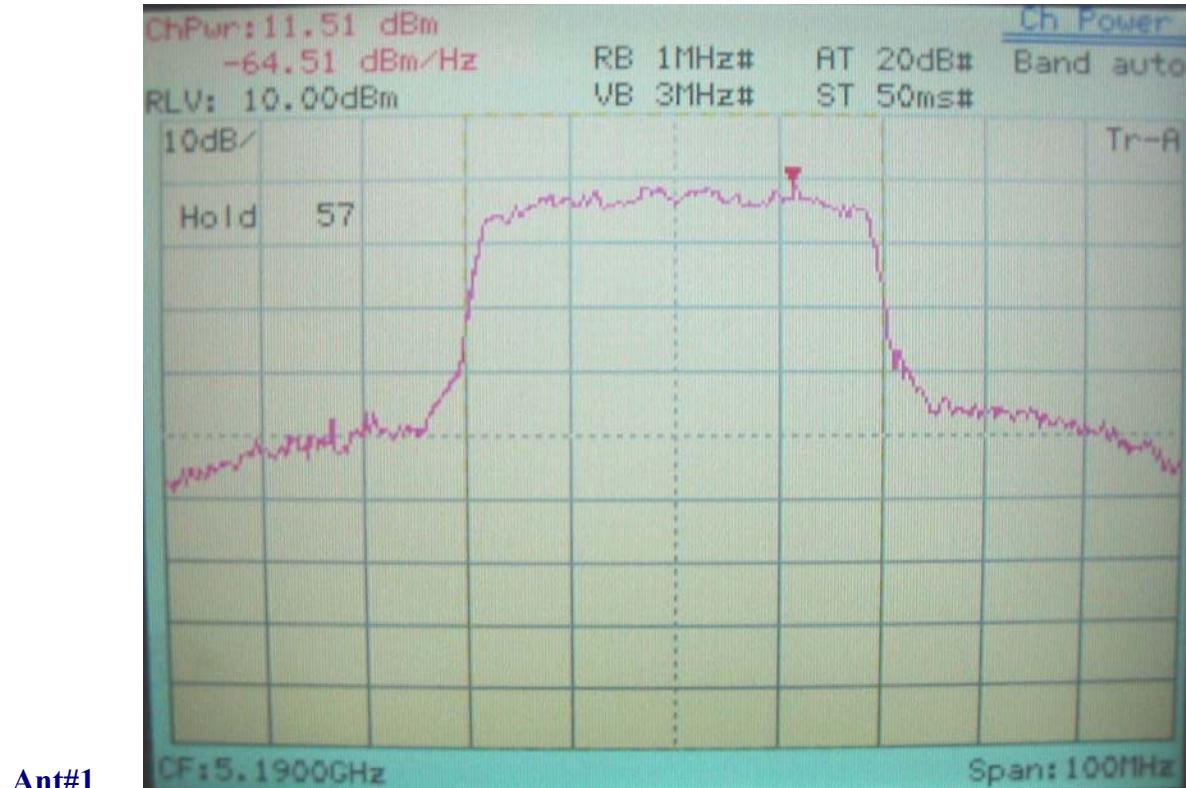
Conducted Output Power for IEEE 802.11a 20M, 5200MHz (Limit: 15.12dBm)

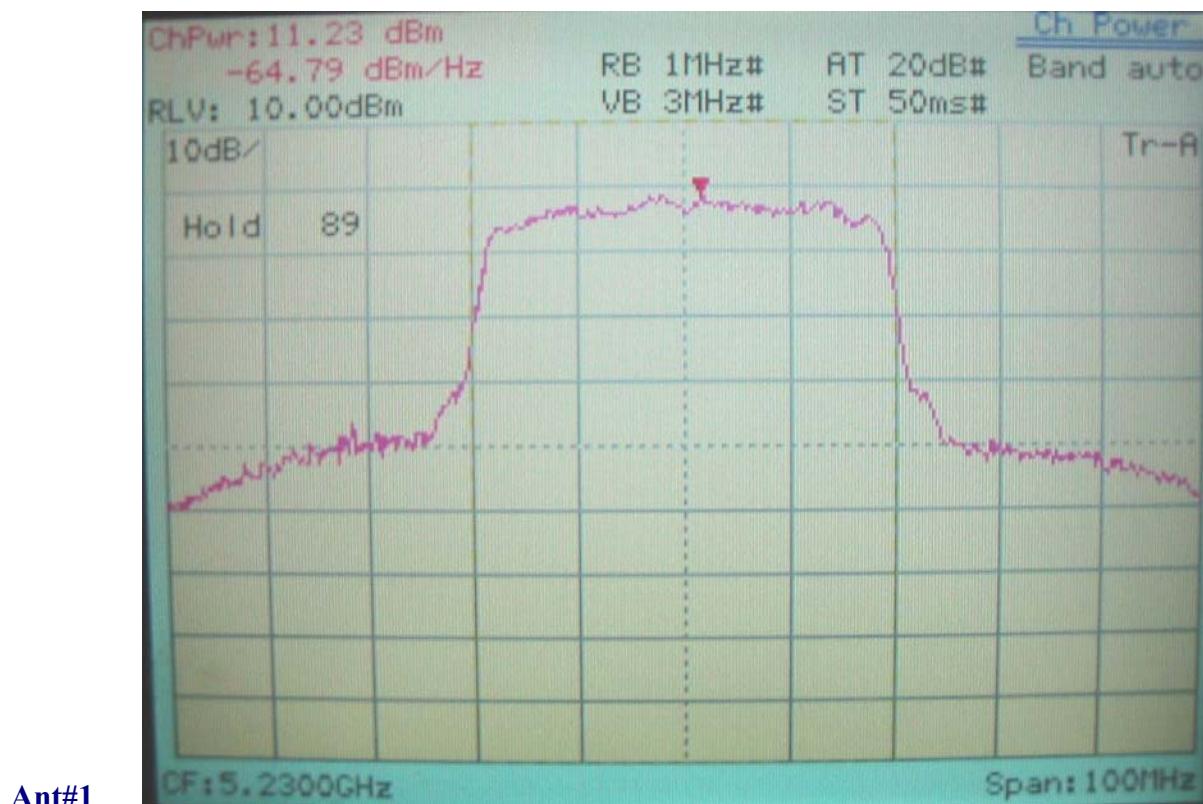
Conducted Output Power for IEEE 802.11a 20M, 5240MHz (Limit: 15.12dBm)

Conducted Output Power for IEEE 802.11a 40M, 5190MHz (Limit: 17.00dBm)



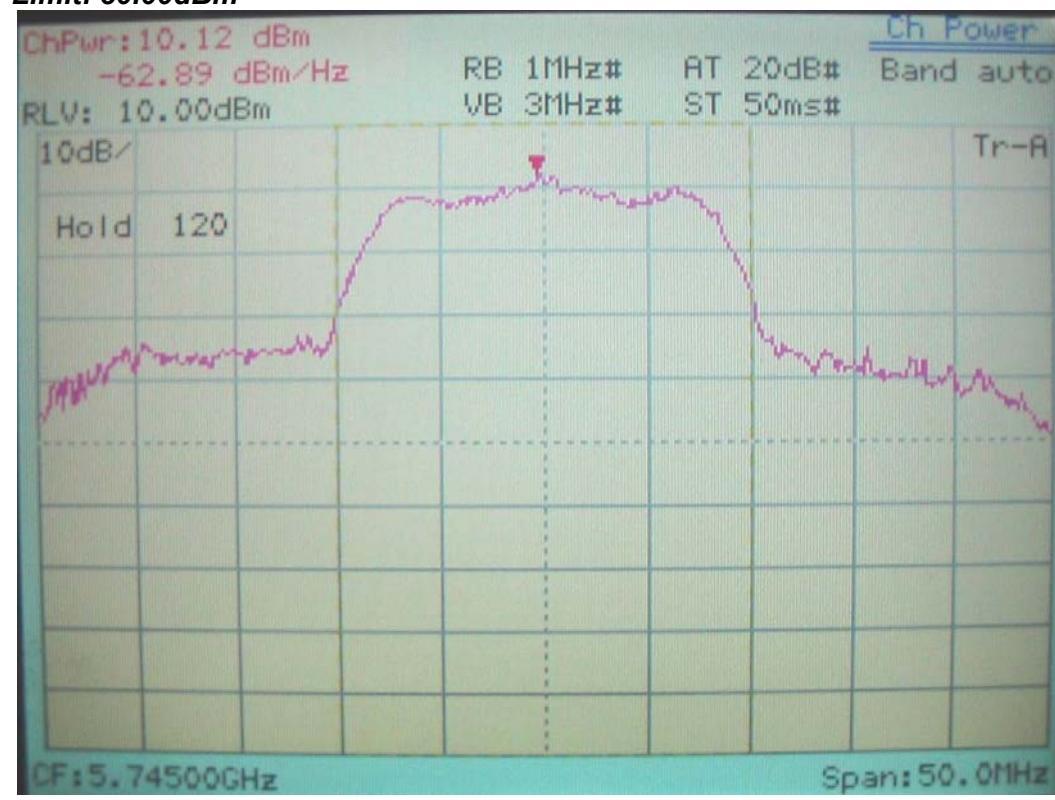
Conducted Output Power for IEEE 802.11a 40M, 5230MHz (Limit: 17.00dBm)

Conducted Output Power for IEEE 802.11a 40M, 5190MHz (Limit: 15.26dBm)

Conducted Output Power for IEEE 802.11a 40M, 5230MHz (Limit: 15.12dBm)

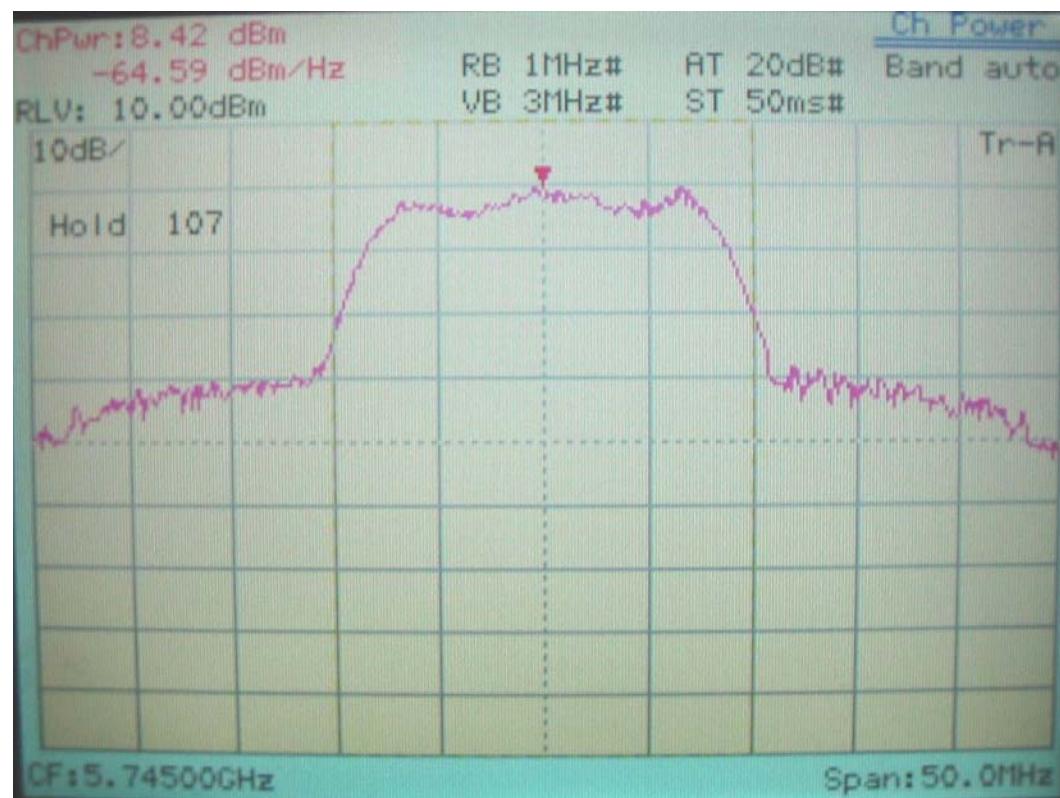
Conducted Output Power for IEEE 802.11a, 5745MHz

Limit: 30.00dBm



Ant#1

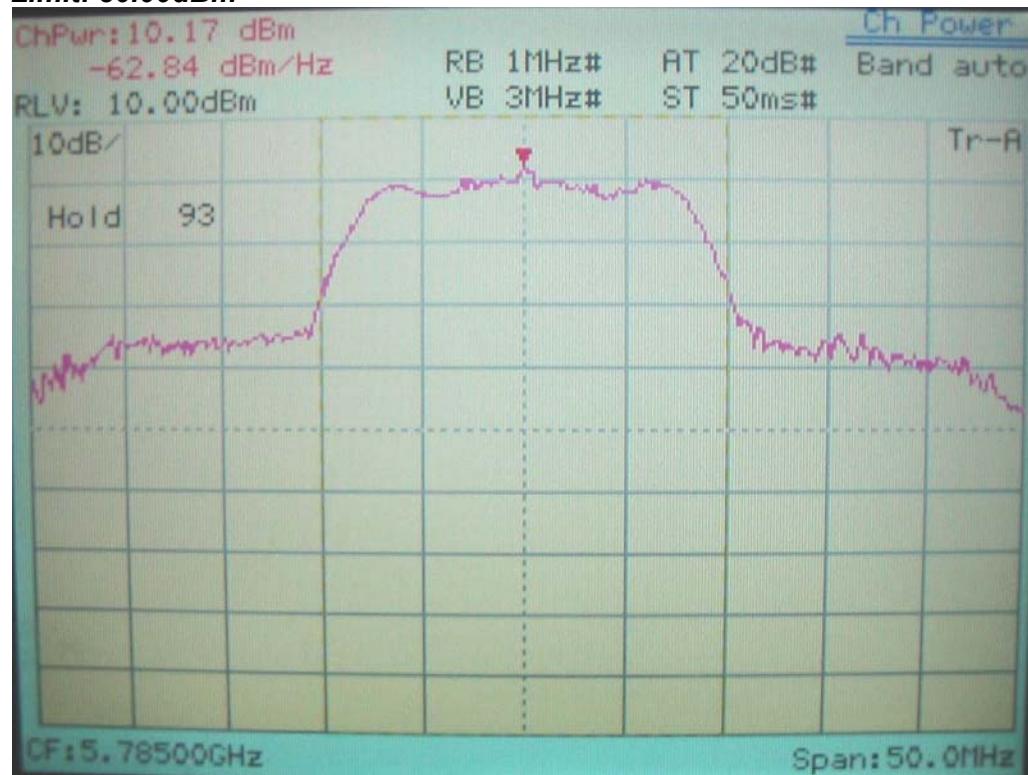
Limits: 30.00dBm; 29.71dBm



Ant#2

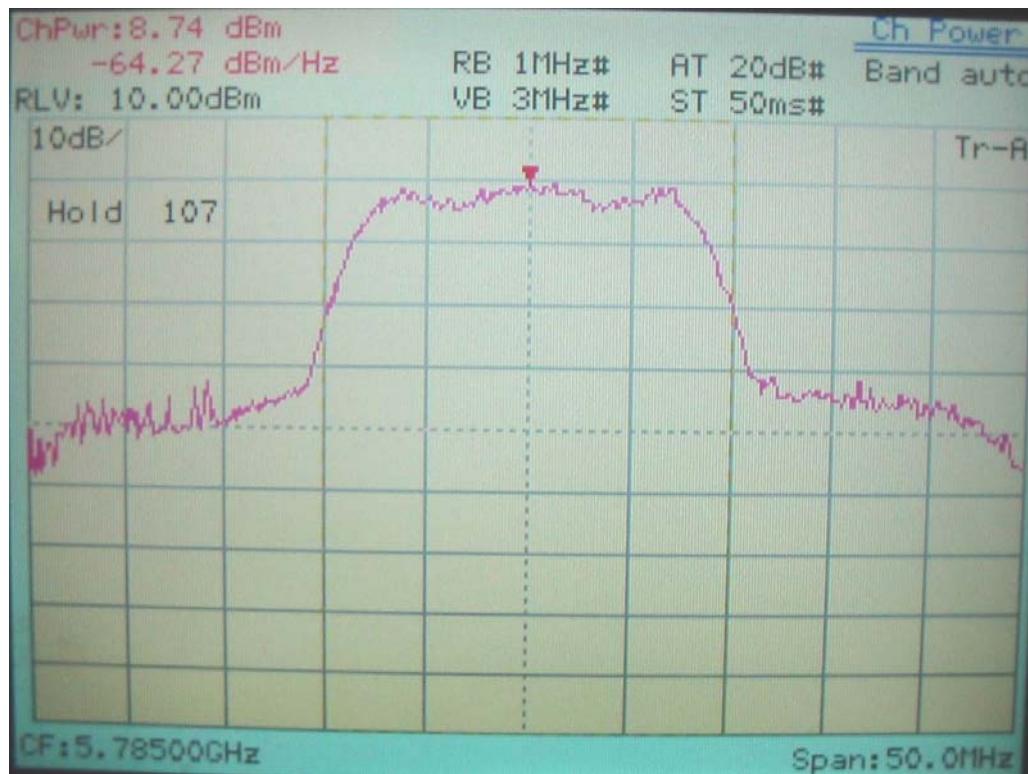
Conducted Output Power for IEEE 802.11a, 5785MHz

Limit: 30.00dBm



Ant#1

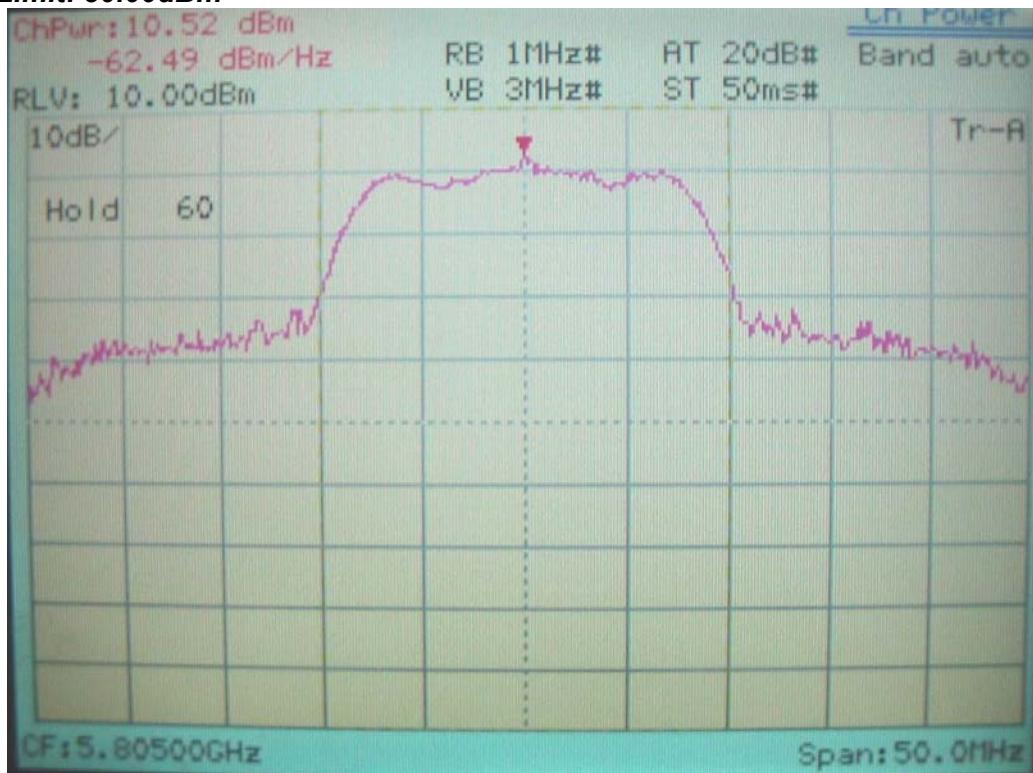
Limits: 30.00dBm; 29.71dBm



Ant#2

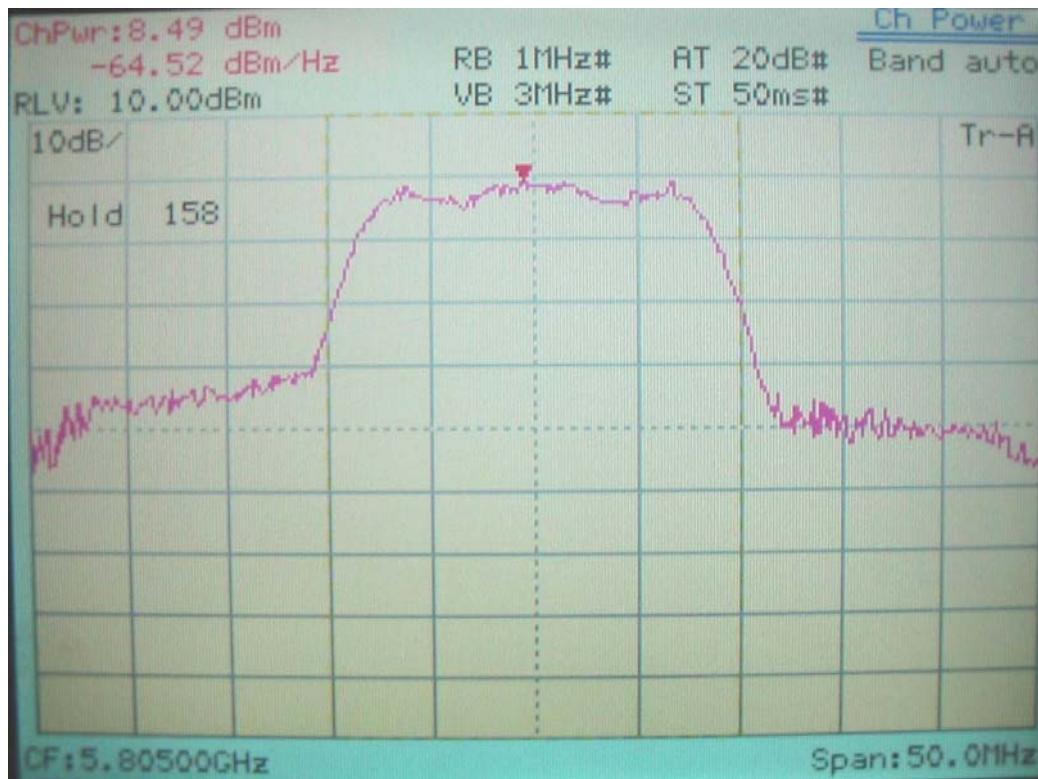
Conducted Output Power for IEEE 802.11a, 5805MHz

Limit: 30.00dBm

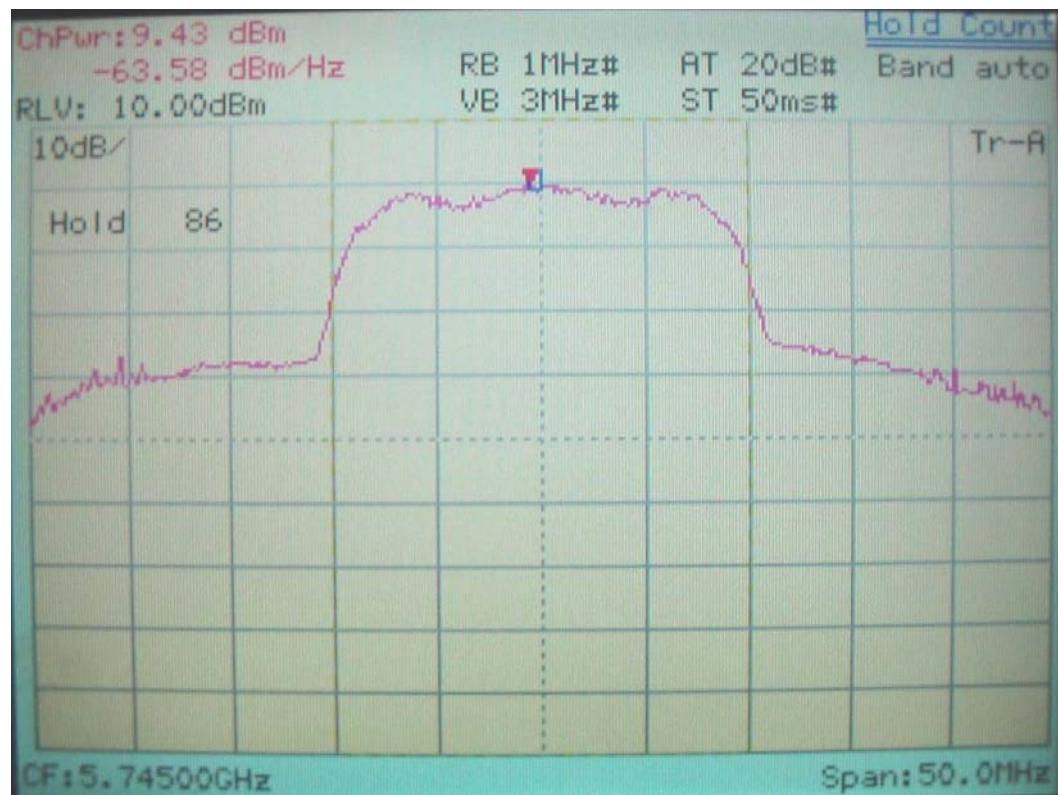


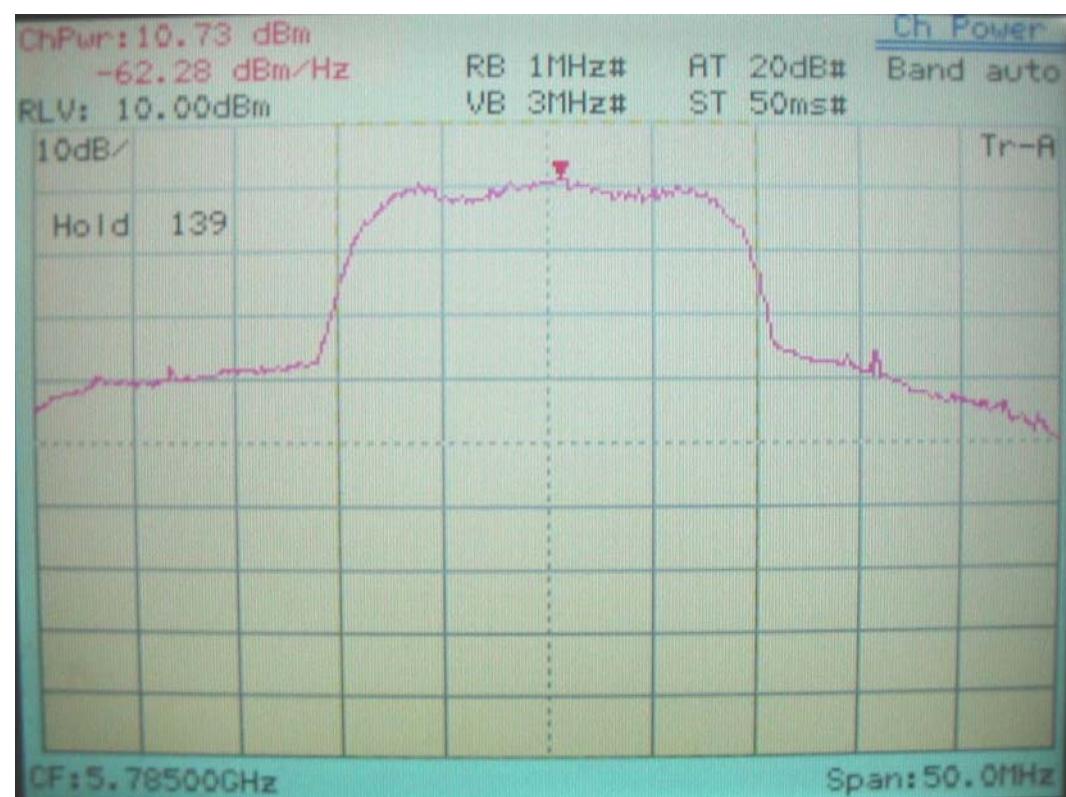
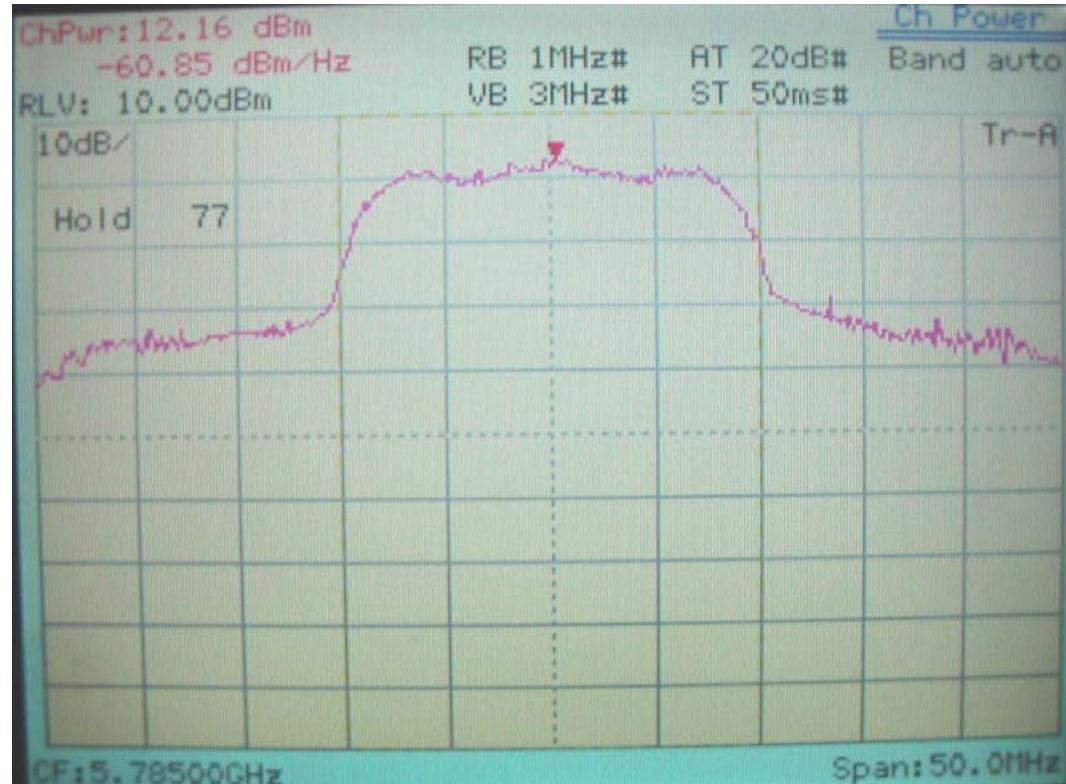
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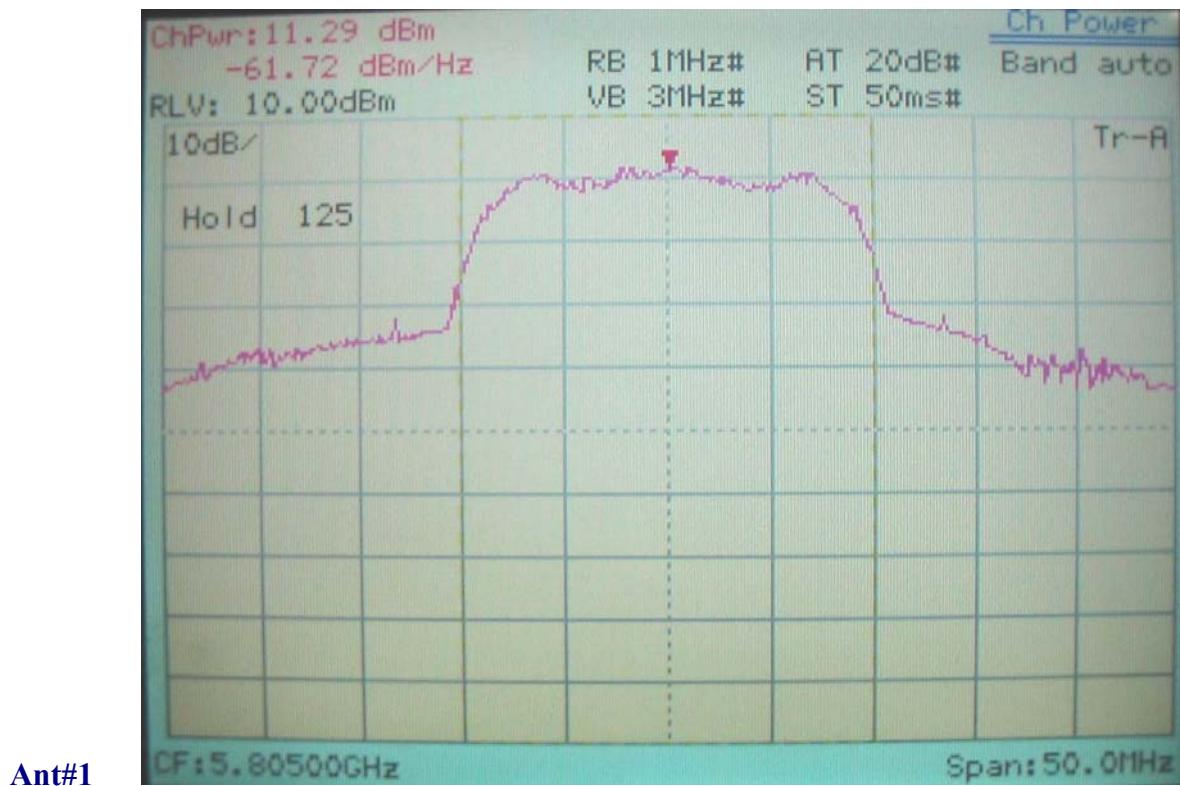
Limits: 30.00dBm; 30.00dBm



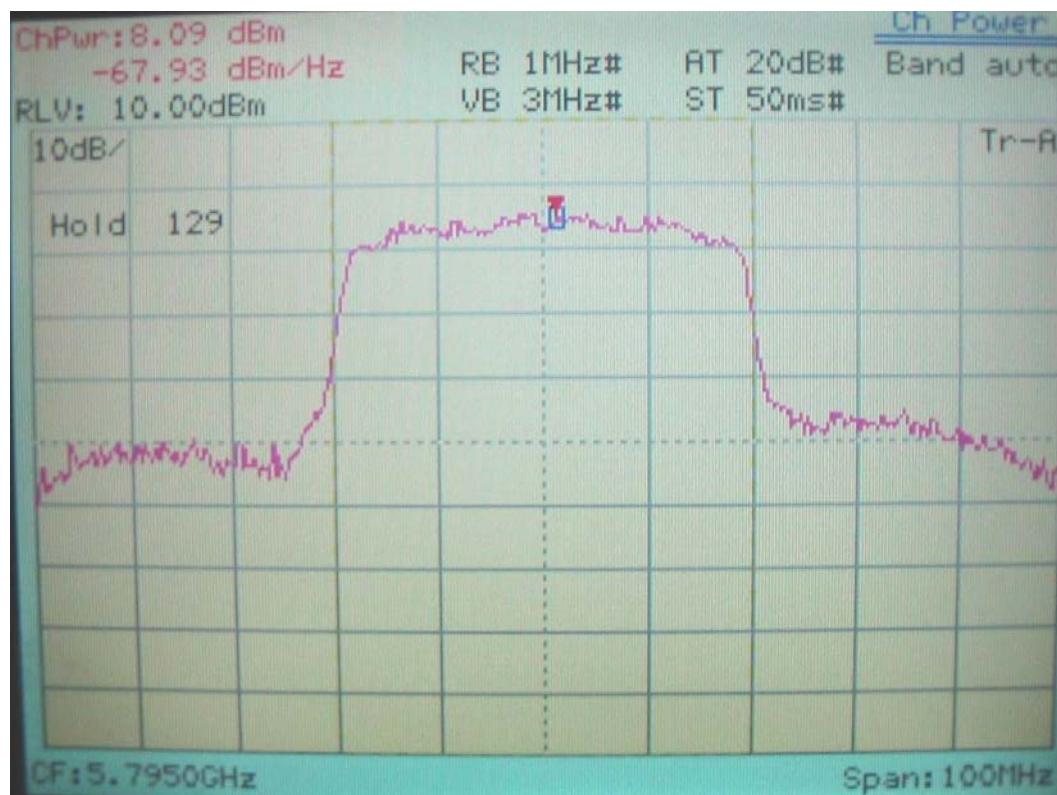
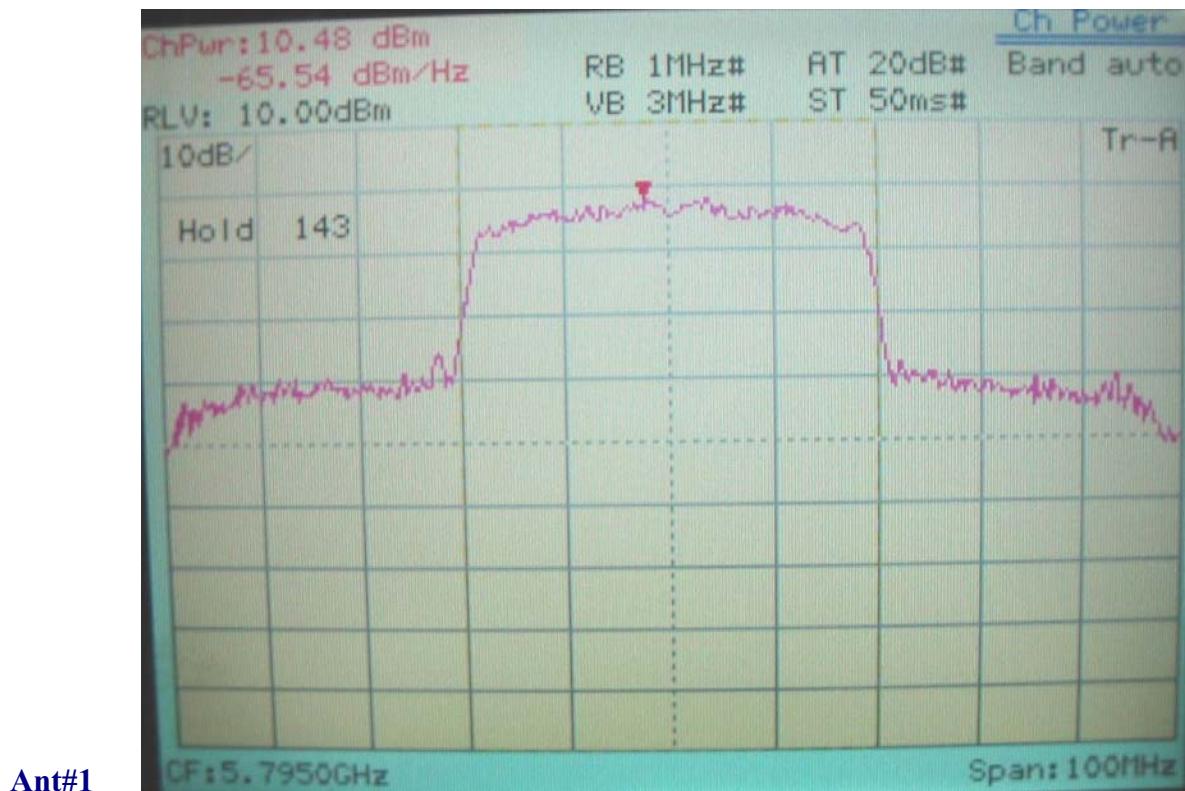
Ant#2

Conducted Output Power for IEEE 802.11a 20M, 5745MHz (Limits: 30.00dBm; 29.71dBm)

Conducted Output Power for IEEE 802.11a 20M, 5785MHz (Limits: 30.00dBm; 29.71dBm)

Conducted Output Power for IEEE 802.11a 20M, 5805MHz (Limits: 30.00dBm; 30.00dBm)

Conducted Output Power for IEEE 802.11a 40M, 5755MHz (Limits: 30.00dBm; 29.71dBm)

Conducted Output Power for IEEE 802.11a 40M, 5795MHz (Limits: 30.00dBm; 30.00dBm)

VI. Section 15.407 (b)(6), (b)(7): Spurious Emissions (Radiated)

6.1 Test Condition & Setup

We'd performed the test by the *radiated emission* skill: The EUT was placed in an semi-anechoic chamber, and set the EUT transmitting continuously and scanned at 3-meter distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration, which produced the highest emissions was noted so it could be reproduced later during the final tests. For the measurement above 1GHz, according to the guidance we'd set the spectrum analyzer's 6dB bandwidth RBW to 1MHz.

This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT.

Final radiation measurements were made on a three-meter, semi-anechoic chamber. The EUT system was placed on a nonconductive turntable, which is 0.8 meters height, top surface 1.0 x 1.5 meter.

The spectrum was examined from 30MHz to 1000MHz using an Hewlett Packard 85460A EMI Receiver, SCHWARZECK whole range Small Biconical Antenna (Model No.: UBAA9114 & BBVU9135) is used to measure frequency from 30 MHz to 1GHz. The final test is used the HP 85460A spectrum and 8564E spectrum was examined from 1GHz to 40GHz using an Hewlett Packard Spectrum Analyzer, EMCO/HP Horn Antenna (Model 3115 / 84125-80008/84125-80001) for 1G -40GHz.

At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. There are two spectrum analyzers use on this testing, HP 85460A for frequency 30MHz to 1000MHz, and 8564E for frequency 1GHz to 40GHz. No post-detector video filters were used in the test. The spectrum analyzer's 6dB bandwidth was set to 120KHz (spectrum was examined from 30 MHz to 1000 MHz), the spectrum analyzer's 6 dB bandwidth was set to 1 MHz (spectrum was examined from 1GHz to 40GHz) and the analyzer was operated in the maximum hold mode. There is a test condition applies in this test item, the test procedure description as the following:

Three channels were tested, one in the lowest (CH36), one in the middle (CH40) and the other in highest (CH48) for IEEE 802.11a. The setting up procedure is recorded on <1.3>

With the transmitter operating from a AC source and using the internal of EUT, radiates spurious emissions falling within the restricted bands of 15.209 were measured at operating frequencies corresponding to upper, middle and bottom channels in the 5150 ~ 5250 MHz band.

The actual field intensity in decibels referenced to 1 microvolt per meter ($\text{dB}\mu\text{V}/\text{m}$) is determined by algebraically adding the measured reading in $\text{dB}\mu\text{V}$, the antenna factor (dB), and cable loss (dB) at the appropriate frequency. Since the EUT was set to transmit continuously, no *duty cycle* is present.

For frequency between 30MHz to 1000MHz

$$F_{Ia} (\text{dB}\mu\text{V}/\text{m}) = F_{Ir} (\text{dB}\mu\text{V}) + \text{Correction Factors}$$

F_{Ia} : Actual Field Intensity

F_{Ir} : Reading of the Field Intensity

Correction Factors = Antenna Factor + (Cable Loss – Amplifier Gain) + Switching Box Loss

For frequency between 1GHz to 40GHz

$$F_{Ia} (\text{dB}\mu\text{V}/\text{m}) = F_{Ir} (\text{dB}\mu\text{V}) + \text{Correction Factor}$$

F_{Ia} : Actual Field Intensity

F_{Ir} : Reading of the Field Intensity

Correction Factors = Antenna Factor + (Cable Loss – Amplifier Gain) + Switching Box Loss

6.2 List of Test Instruments

Instrument Name	Model	Brand	Serial No.	Calibration Date
EMI Receiver	8546A	HP	3520A00242	01/15/10
RF Filter Section	85460A	HP	3448A00217	01/15/10
Small Biconical Antenna	UBAA9114 & BBVU9135	SCHWARZECK	127	01/10/10
Pre-amplifier	PA1F	TRC	1FAC	01/10/10
Coaxial Cable (Double shielded, 15 meter)	A30A30-0058-50FS-15M	JYEBAO	SMA-01	01/10/10
Coaxial Cable (1.1 meter)	A30A30-0058-50FS-1M	JYEBAO	SMA-02	01/10/10
Spectrum Analyzer	8564E	HP	3720A00840	12/17/09
Microwave Preamplifier	84125C	HP	US36433002	02/05/10
Horn Antenna	3115	EMCO	9104-3668	02/06/10
Standard Guide Horn Antenna	84125-80008	HP	18-26.5GHz	12/14/09
Standard Guide Horn Antenna	84125-80001	HP	26.5-40GHz	02/12/10
Horn Antenna	1196E (3115)	HP (EMCO)	9704-5178	02/13/10
Pre-amplifier	PA2F	TRC	2F1GZ	01/10/10
Coaxial Cable (3 miter)	A30A30-0058-50FST118	JYEBAO	MSA-05	01/10/10
Coaxial Cable (1 meter)	A30A30-0058-50FST118	JYEBAO	MSA-04	01/10/10

6.3 Test Result of Spurious Radiated Emissions

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarizations, EUT orientation, etc. are recorded on the following.

Test Conditions: Temperature : 23 ° C Humidity : 68 % RH

Test mode: IEEE 802.11a 5180MHz for 30MHz to 1GHz [Horizontal]

<i>Radiated Emission</i>				<i>Correction Factors</i> (dB)	<i>Corrected Amplitude</i> (dB μ V/m)	<i>Class B (3 m)</i>	
<i>Frequency (MHz)</i>	<i>Amplitude (dBμV)</i>	<i>Ant. H. (m)</i>	<i>Table ()</i>			<i>Limit (dBμV/m)</i>	<i>Margin (dB)</i>
168.22	33.44	1.00	273	-4.10	29.34	43.50	-14.16
197.32	42.94	1.00	273	-3.42	39.52	43.50	-3.98
301.06	40.10	1.00	177	-2.88	37.22	46.00	-8.78
321.00	37.87	1.00	163	-2.64	35.23	46.00	-10.77
369.50	41.11	1.00	177	-1.81	39.30	46.00	-6.70
436.19	36.20	1.00	190	0.56	36.76	46.00	-9.24

Test mode: IEEE 802.11a 5180MHz for 30MHz to 1GHz [Vertical]

<i>Radiated Emission</i>				<i>Correction Factors</i> (dB)	<i>Corrected Amplitude</i> (dB μ V/m)	<i>Class B (3 m)</i>	
<i>Frequency (MHz)</i>	<i>Amplitude (dBμV)</i>	<i>Ant. H. (m)</i>	<i>Table ()</i>			<i>Limit (dBμV/m)</i>	<i>Margin (dB)</i>
168.22	31.96	1.00	209	-4.10	27.86	43.50	-15.64
197.32	37.07	1.00	285	-3.42	33.65	43.50	-9.85
259.16	32.28	1.00	48	-3.82	28.46	46.00	-17.54
300.39	30.99	1.00	285	-2.90	28.09	46.00	-17.91
322.21	33.13	1.00	357	-2.62	30.51	46.00	-15.49
368.29	31.37	1.00	288	-1.83	29.54	46.00	-16.46

Note:

1. Margin = Amplitude – limit, if margin is minus means under limit.
2. Corrected Amplitude = Reading Amplitude + Correction Factors
3. Correction factor = Antenna factor + (Cable Loss – Amplitude gain) + Switching Box Loss

Test mode: IEEE 802.11a 5180MHz for 1GHz to 40GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude	Correction Factor	Corrected Amplitude	Limit	Margin			
			<i>Peak / Ave.</i>		<i>Peak / Ave.</i>					
MHz	m	degree	dBμV	dB/m	dBμV/m	dBμV/m	dB			
2490.48	1.00	261	45.52	27.83	9.46	54.98	37.29	73.96	53.96	-16.67
4779.17	1.00	170	35.50	---	14.08	49.58	---	73.96	53.96	-4.38
7305.33	1.00	66	36.44	---	10.28	46.72	---	73.96	53.96	-7.24
17236.42	1.00	118	41.16	---	8.53	49.69	---	73.96	53.96	-4.27
22979.58	1.00	295	44.66	---	3.73	48.39	---	73.96	53.96	-5.57
34470.62	1.00	334	39.67	---	4.70	44.37	---	73.96	53.96	-9.59

Test mode: IEEE 802.11a 5180MHz for 1GHz to 40GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude	Correction Factor	Corrected Amplitude	Limit	Margin			
			<i>Peak / Ave.</i>		<i>Peak / Ave.</i>					
MHz	m	degree	dBμV	dB/m	dBμV/m	dBμV/m	dB			
1662.50	1.00	209	38.50	---	13.36	51.86	---	73.96	53.96	-2.10
2492.40	1.00	221	46.15	28.67	9.47	55.62	38.14	73.96	53.96	-15.82
7732.50	1.00	196	35.77	---	10.73	46.50	---	73.96	53.96	-7.46
17236.42	1.00	155	41.49	---	8.53	50.02	---	73.96	53.96	-3.94
22979.58	1.00	258	47.16	---	3.73	50.89	---	73.96	53.96	-3.07
28727.50	1.00	252	42.33	---	2.02	44.35	---	73.96	53.96	-9.61

Note:

1. Margin = Corrected - Limit.
2. The EUT utilizes a *permanently attached antenna*. In addition the spurious RF radiated emissions levels do comply with the limit both at its bandedges and other spurious emissions.
3. As stated in Section 15.35(b), for any frequencies above 1000MHz, radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. As the results of our test, the peak amplitudes are already below the FCC limit. Thus the average amplitudes of the rest are omitted.

Test mode: IEEE 802.11a 5200MHz for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
198.54	43.50	1.00	261	-3.36	40.14	43.50	-3.36
301.60	44.02	1.00	158	-2.88	41.14	46.00	-4.86
368.29	41.46	1.00	171	-1.83	39.63	46.00	-6.37
433.76	36.65	1.00	315	0.45	37.10	46.00	-8.90
499.24	28.30	1.00	171	1.73	30.03	46.00	-15.97

Test mode: IEEE 802.11a 5200MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
198.54	35.28	1.00	264	-3.36	31.92	43.50	-11.58
302.81	32.38	1.00	336	-2.86	29.52	46.00	-16.48
368.29	33.16	1.00	278	-1.83	31.33	46.00	-14.67
442.25	33.89	1.00	350	0.84	34.73	46.00	-11.27
696.87	26.40	1.00	274	9.44	35.84	46.00	-10.16

Test mode: IEEE 802.11a 5200MHz for 1GHz to 40GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude <i>Peak / Ave.</i>	Correction Factor	Corrected Amplitude <i>Peak / Ave.</i>	Limit		Margin
						Peak / Ave.	dBµV/m	
MHz	m	degree	dBµV	dB/m	dBµV/m	dBµV/m	dB	
1659.80	1.00	272	39.85	23.50	13.40	53.25	36.90	73.96
2493.85	1.00	342	44.50	28.50	9.47	53.97	37.97	73.96
7342.00	1.00	64	36.44	---	10.37	46.81	---	73.96
17354.83	1.00	19	41.15	---	9.57	50.72	---	73.96
23142.50	1.00	316	45.82	---	3.60	49.42	---	73.96
28924.37	1.00	139	42.50	---	1.99	44.49	---	73.96

Test mode: IEEE 802.11a 5200MHz for 1GHz to 40GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude <i>Peak / Ave.</i>	Correction Factor	Corrected Amplitude <i>Peak / Ave.</i>	Limit		Margin
						Peak / Ave.	dBµV/m	
MHz	m	degree	dBµV	dB/m	dBµV/m	dBµV/m	dB	
1663.00	1.00	273	38.90	24.83	13.35	52.25	38.18	73.96
2490.85	1.00	169	44.18	27.33	9.46	53.64	36.79	73.96
7398.83	1.00	22	36.44	---	10.40	46.84	---	73.96
17354.83	1.00	67	40.99	---	9.57	50.56	---	73.96
23142.50	1.00	310	45.49	---	3.60	49.09	---	73.96
34712.50	1.00	182	40.32	---	4.27	44.59	---	73.96

Test mode: IEEE 802.11a 5240MHz for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
169.44	34.75	1.00	135	-4.11	30.64	43.50	-12.86
198.54	43.31	1.00	277	-3.36	39.95	43.50	-3.55
261.59	40.30	1.00	73	-3.88	36.42	46.00	-9.58
301.60	40.37	1.00	166	-2.88	37.49	46.00	-8.51
368.29	41.08	1.00	180	-1.83	39.25	46.00	-6.75
434.97	35.60	1.00	180	0.51	36.11	46.00	-9.89

Test mode: IEEE 802.11a 5240MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
169.44	32.13	1.00	187	-4.11	28.02	43.50	-15.48
198.54	37.42	1.00	287	-3.36	34.06	43.50	-9.44
322.21	33.04	1.00	149	-2.62	30.42	46.00	-15.58
367.07	31.09	1.00	277	-1.86	29.23	46.00	-16.77
696.87	25.92	1.00	293	9.44	35.36	46.00	-10.64

Test mode: IEEE 802.11a 5240MHz for 1GHz to 40GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude <i>Peak / Ave.</i>	Correction Factor	Corrected Amplitude <i>Peak / Ave.</i>	Limit		Margin		
						<i>Peak / Ave.</i>	<i>dBμV/m</i>			
MHz	m	degree	<i>dBμV</i>	<i>dB/m</i>	<i>dBμV/m</i>	<i>dBμV/m</i>	<i>dB</i>			
1658.33	1.00	252	38.00	---	13.42	51.42	---	73.96	53.96	-2.54
2490.77	1.00	327	44.99	28.17	9.46	54.45	37.63	73.96	53.96	-16.33
7371.33	1.00	159	35.94	---	10.43	46.37	---	73.96	53.96	-7.59
17416.08	1.00	82	39.82	---	9.80	49.62	---	73.96	53.96	-4.34
23220.42	1.00	219	45.49	---	3.75	49.24	---	73.96	53.96	-4.72
29025.62	1.00	200	42.66	---	1.94	44.60	---	73.96	53.96	-9.36

Test mode: IEEE 802.11a 5240MHz for 1GHz to 40GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude <i>Peak / Ave.</i>	Correction Factor	Corrected Amplitude <i>Peak / Ave.</i>	Limit		Margin		
						<i>Peak / Ave.</i>	<i>dBμV/m</i>			
MHz	m	degree	<i>dBμV</i>	<i>dB/m</i>	<i>dBμV/m</i>	<i>dBμV/m</i>	<i>dB</i>			
1662.36	1.00	224	40.33	25.50	13.36	53.69	38.86	73.96	53.96	-15.10
2492.40	1.00	80	43.50	28.17	9.47	52.97	37.64	73.96	53.96	-16.32
7646.33	1.00	34	35.94	---	11.02	46.96	---	73.96	53.96	-7.00
17416.08	1.00	1	40.66	---	9.80	50.46	---	73.96	53.96	-3.50
23220.42	1.00	206	44.49	---	3.75	48.24	---	73.96	53.96	-5.72
34830.62	1.00	49	39.99	---	4.42	44.41	---	73.96	53.96	-9.55

Test mode: IEEE 802.11a 20M 5180MHz for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
198.54	44.27	1.00	247	-3.36	40.91	43.50	-2.59
301.60	42.43	1.00	165	-2.88	39.55	46.00	-6.45
369.50	41.23	1.00	189	-1.81	39.42	46.00	-6.58
439.82	41.90	1.00	178	0.73	42.63	46.00	-3.37
500.45	29.99	1.00	305	0.77	30.76	46.00	-15.24

Test mode: IEEE 802.11a 20M 5180MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
198.54	36.11	1.00	158	-3.36	32.75	43.50	-10.75
369.50	32.88	1.00	285	-1.81	31.07	46.00	-14.93
396.17	41.11	1.00	192	-1.17	39.94	46.00	-6.06
433.76	30.49	1.00	110	0.45	30.94	46.00	-15.06
500.45	28.49	1.00	278	1.77	30.26	46.00	-15.74
696.87	26.13	1.00	265	9.44	35.57	46.00	-10.43

Test mode: IEEE 802.11a 20M 5180MHz for 1GHz to 40GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude <i>Peak / Ave.</i>	Correction Factor	Corrected Amplitude <i>Peak / Ave.</i>	Limit		Margin
						<i>Peak / Ave.</i>	<i>dB</i>	
MHz	m	degree	dBμV	dB/m	dBμV/m	dBμV/m	dB	
1662.50	1.00	192	36.33	---	13.36	49.69	---	73.96 53.96 -4.27
2492.09	1.00	351	44.66	29.00	9.47	54.13	38.47	73.96 53.96 -15.49
7358.50	1.00	320	37.28	---	10.40	47.68	---	73.96 53.96 -6.28
17236.42	1.00	272	40.99	---	8.53	49.52	---	73.96 53.96 -4.44
22979.58	1.00	34	44.66	---	3.73	48.39	---	73.96 53.96 -5.57
34470.62	1.00	256	39.67	---	4.70	44.37	---	73.96 53.96 -9.59

Test mode: IEEE 802.11a 20M 5180MHz for 1GHz to 40GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude <i>Peak / Ave.</i>	Correction Factor	Corrected Amplitude <i>Peak / Ave.</i>	Limit		Margin
						<i>Peak / Ave.</i>	<i>dB</i>	
MHz	m	degree	dBμV	dB/m	dBμV/m	dBμV/m	dB	
1662.50	1.00	118	36.83	---	13.36	50.19	---	73.96 53.96 -3.77
2490.67	1.00	290	43.16	27.17	9.46	52.62	36.63	73.96 53.96 -17.33
7343.83	1.00	4	36.11	---	10.37	46.48	---	73.96 53.96 -7.48
17236.42	1.00	52	41.66	---	8.53	50.19	---	73.96 53.96 -3.77
22979.58	1.00	258	47.16	---	3.73	50.89	---	73.96 53.96 -3.07
28727.50	1.00	252	42.33	---	2.02	44.35	---	73.96 53.96 -9.61

Test mode: IEEE 802.11a 20M 5200MHz for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
198.54	44.34	1.00	257	-3.36	40.98	43.50	-2.52
301.60	43.06	1.00	165	-2.88	40.18	46.00	-5.82
369.50	41.58	1.00	168	-1.81	39.77	46.00	-6.23
433.76	37.00	1.00	178	0.45	37.45	46.00	-8.55
500.45	29.20	1.00	305	1.77	30.97	46.00	-15.03

Test mode: IEEE 802.11a 20M 5200MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
198.54	36.55	1.00	153	-3.36	33.19	43.50	-10.31
302.81	32.71	1.00	336	-2.86	29.85	46.00	-16.15
370.71	32.77	1.00	278	-1.78	30.99	46.00	-15.01
500.45	29.20	1.00	262	1.77	30.97	46.00	-15.03
567.14	25.54	1.00	274	5.54	31.08	46.00	-14.92
696.87	26.40	1.00	271	9.44	35.84	46.00	-10.16

Test mode: IEEE 802.11a 20M 5200MHz for 1GHz to 40GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude <i>Peak / Ave.</i>	Correction Factor	Corrected Amplitude <i>Peak / Ave.</i>	Limit		Margin		
						<i>Peak / Ave.</i>	<i>dBμV/m</i>			
MHz	m	degree	<i>dBμV</i>	<i>dB/m</i>	<i>dBμV/m</i>	<i>dBμV/m</i>	<i>dB</i>			
1658.33	1.00	283	35.67	---	13.42	49.09	---	73.96	53.96	-4.87
2491.12	1.00	310	45.83	28.50	9.47	55.30	37.97	73.96	53.96	-15.99
7382.33	1.00	7	36.60	---	10.43	47.03	---	73.96	53.96	-6.93
17354.83	1.00	147	40.82	---	9.57	50.39	---	73.96	53.96	-3.57
23142.50	1.00	149	44.99	---	3.60	48.59	---	73.96	53.96	-5.37
34712.50	1.00	266	40.50	---	4.27	44.77	---	73.96	53.96	-9.19

Test mode: IEEE 802.11a 20M 5200MHz for 1GHz to 40GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude <i>Peak / Ave.</i>	Correction Factor	Corrected Amplitude <i>Peak / Ave.</i>	Limit		Margin		
						<i>Peak / Ave.</i>	<i>dBμV/m</i>			
MHz	m	degree	<i>dBμV</i>	<i>dB/m</i>	<i>dBμV/m</i>	<i>dBμV/m</i>	<i>dB</i>			
1662.50	1.00	289	35.50	---	13.36	48.86	---	73.96	53.96	-5.10
2492.13	1.00	171	43.33	28.17	9.47	52.80	37.64	73.96	53.96	-16.32
7332.83	1.00	357	36.27	---	10.35	46.62	---	73.96	53.96	-7.34
17354.83	1.00	230	41.15	---	9.57	50.72	---	73.96	53.96	-3.24
23142.50	1.00	310	45.49	---	3.60	49.09	---	73.96	53.96	-4.87
34712.50	1.00	182	40.32	---	4.27	44.59	---	73.96	53.96	-9.37

Test mode: IEEE 802.11a 20M 5240MHz for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
142.76	35.80	1.00	309	-3.72	32.08	43.50	-11.42
198.54	43.38	1.00	258	-3.36	40.02	43.50	-3.48
302.81	43.79	1.00	156	-2.86	40.93	46.00	-5.07
371.92	41.53	1.00	180	-1.75	39.78	46.00	-6.22
437.40	37.06	1.00	180	0.62	37.68	46.00	-8.32
501.66	28.19	1.00	295	1.85	30.04	46.00	-15.96

Test mode: IEEE 802.11a 20M 5240MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
198.54	35.75	1.00	285	-3.36	32.39	43.50	-11.11
300.39	32.42	1.00	336	-2.90	29.52	46.00	-16.48
369.50	32.61	1.00	268	-1.81	30.80	46.00	-15.20
432.55	30.88	1.00	197	0.40	31.28	46.00	-14.72
567.14	25.89	1.00	253	5.54	31.43	46.00	-14.57
700.51	26.20	1.00	278	9.54	35.74	46.00	-10.26

Test mode: IEEE 802.11a 20M 5240MHz for 1GHz to 40GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude		Correction Factor	Corrected Amplitude		Limit	Margin
			Peak / Ave.	Peak / Ave.		Peak / Ave.	Peak / Ave.		
MHz	m	degree	dB μ V		dB/m	dB μ V/m		dB μ V/m	dB
1660.03	1.00	283	39.70	24.33	13.39	53.09	37.72	73.96	53.96 -16.24
2491.25	1.00	359	45.50	28.50	9.47	54.97	37.97	73.96	53.96 -15.99
7376.83	1.00	71	35.94	---	10.44	46.38	---	73.96	53.96 -7.58
17416.08	1.00	264	40.66	---	9.80	50.46	---	73.96	53.96 -3.50
23220.42	1.00	231	43.99	---	3.75	47.74	---	73.96	53.96 -6.22
34830.62	1.00	106	39.84	---	4.42	44.26	---	73.96	53.96 -9.70

Test mode: IEEE 802.11a 20M 5240MHz for 1GHz to 40GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude		Correction Factor	Corrected Amplitude		Limit	Margin
			Peak / Ave.	Peak / Ave.		Peak / Ave.	Peak / Ave.		
MHz	m	degree	dB μ V		dB/m	dB μ V/m		dB μ V/m	dB
1662.50	1.00	98	38.00	---	13.36	51.36	---	73.96	53.96 -2.60
2491.42	1.00	349	44.00	27.83	9.47	53.47	37.30	73.96	53.96 -16.66
7340.17	1.00	141	36.28	---	10.36	46.64	---	73.96	53.96 -7.32
17416.08	1.00	254	39.99	---	9.80	49.79	---	73.96	53.96 -4.17
23220.42	1.00	206	44.49	---	3.75	48.24	---	73.96	53.96 -5.72
34830.62	1.00	49	39.99	---	4.42	44.41	---	73.96	53.96 -9.55

Test mode: IEEE 802.11a 40M 5190MHz for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
197.32	44.77	1.00	145	-3.42	41.35	43.50	-2.15
242.19	38.46	1.00	159	-3.61	34.85	46.00	-11.15
257.95	39.60	1.00	197	-3.73	35.87	46.00	-10.13
300.39	41.85	1.00	159	-2.90	38.95	46.00	-7.05
368.29	40.62	1.00	173	-1.83	38.79	46.00	-7.21
436.19	34.91	1.00	173	0.56	35.47	46.00	-10.53

Test mode: IEEE 802.11a 40M 5190MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
168.22	33.56	1.00	183	-4.10	29.46	43.50	-14.04
197.32	35.35	1.00	246	-3.42	31.93	43.50	-11.57
301.60	32.87	1.00	260	-2.88	29.99	46.00	-16.01
369.50	31.14	1.00	87	-1.81	29.33	46.00	-16.67
500.45	28.17	1.00	128	1.77	29.94	46.00	-16.06
696.87	27.43	1.00	257	9.44	36.87	46.00	-9.13

Test mode: IEEE 802.11a 40M 5190MHz for 1GHz to 40GHz [Horizontal]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>	<i>Correction Factor</i>	<i>Corrected Amplitude</i>	<i>Limit</i>	<i>Margin</i>
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>	<i>dB/m</i>	<i>dBμV/m</i>	<i>dBμV/m</i>	<i>dB</i>
1659.22	1.00	186	40.68	23.83	13.41	54.09	37.24
2493.55	1.00	312	45.50	28.67	9.47	54.97	38.14
7347.50	1.00	240	36.27	---	10.38	46.65	---
17265.00	1.00	180	41.49	---	8.74	50.23	---
23022.08	1.00	67	45.15	---	3.73	48.88	---
34768.37	1.00	98	39.67	---	4.33	44.00	---

Test mode: IEEE 802.11a 40M 5190MHz for 1GHz to 40GHz [Vertical]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>	<i>Correction Factor</i>	<i>Corrected Amplitude</i>	<i>Limit</i>	<i>Margin</i>
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>	<i>dB/m</i>	<i>dBμV/m</i>	<i>dBμV/m</i>	<i>dB</i>
1664.87	1.00	212	39.10	23.83	13.32	52.42	37.15
2493.55	1.00	32	43.48	28.00	9.47	52.95	37.45
7327.33	1.00	57	36.78	---	10.33	47.11	---
17265.00	1.00	204	41.16	---	8.74	49.90	---
23022.08	1.00	164	44.65	---	3.73	48.38	---
34768.75	1.00	338	40.99	---	4.33	45.32	---

Test mode: IEEE 802.11a 40M 5230MHz for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
168.22	35.33	1.00	141	-4.10	31.23	43.50	-12.27
197.32	43.97	1.00	141	-3.42	40.55	43.50	-2.95
301.60	41.79	1.00	154	-2.88	38.91	46.00	-7.09
368.29	41.04	1.00	182	-1.83	39.21	46.00	-6.79
432.55	35.48	1.00	182	0.40	35.88	46.00	-10.12
501.66	27.43	1.00	302	1.85	29.28	46.00	-16.72

Test mode: IEEE 802.11a 40M 5230MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
168.22	33.25	1.00	196	-4.10	29.15	43.50	-14.35
198.54	34.95	1.00	234	-3.36	31.59	43.50	-11.91
260.37	32.27	1.00	0	-3.88	28.39	46.00	-17.61
301.60	32.02	1.00	287	-2.88	29.14	46.00	-16.86
700.51	25.46	1.00	251	9.54	35.00	46.00	-11.00

Test mode: IEEE 802.11a 40M 5230MHz for 1GHz to 40GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude	Correction Factor	Corrected	Limit	Margin			
			Peak / Ave.		Amplitude					
MHz	m	degree	dBμV	dB/m	dBμV/m	dBμV/m	dB			
2491.66	1.00	75	45.64	28.67	9.47	55.11	38.14	73.96	53.96	-15.82
4987.50	1.00	223	35.17	---	14.84	50.01	---	73.96	53.96	-3.95
7606.00	1.00	42	36.11	---	10.96	47.07	---	73.96	53.96	-6.89
17387.50	1.00	118	40.66	---	9.80	50.46	---	73.96	53.96	-3.50
23181.46	1.00	310	44.82	---	3.60	48.42	---	73.96	53.96	-5.54
28778.12	1.00	174	41.67	---	2.10	43.77	---	73.96	53.96	-10.19

Test mode: IEEE 802.11a 40M 5230MHz for 1GHz to 40GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude	Correction Factor	Corrected	Limit	Margin			
			Peak / Ave.		Amplitude					
MHz	m	degree	dBμV	dB/m	dBμV/m	dBμV/m	dB			
1650.00	1.00	199	36.33	---	13.55	49.88	---	73.96	53.96	-4.08
2490.94	1.00	171	42.67	27.50	9.46	52.13	36.96	73.96	53.96	-17.00
7367.67	1.00	302	36.44	---	10.42	46.86	---	73.96	53.96	-7.10
17383.42	1.00	70	40.66	---	9.80	50.46	---	73.96	53.96	-3.50
23181.46	1.00	101	44.32	---	3.60	47.92	---	73.96	53.96	-6.04
34532.50	1.00	236	40.66	---	4.57	45.23	---	73.96	53.96	-8.73

Test mode: IEEE 802.11a 5745MHz for 1GHz to 40GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table ()			Limit (dB μ V/m)	Margin (dB)
198.54	43.24	1.00	271	-3.36	39.88	43.50	-3.62
260.37	37.92	1.00	69	-3.88	34.04	46.00	-11.96
301.60	39.66	1.00	175	-2.88	36.78	46.00	-9.22
321.00	38.18	1.00	69	-2.64	35.54	46.00	-10.46
369.50	40.73	1.00	189	-1.81	38.92	46.00	-7.08
433.76	36.01	1.00	189	0.45	36.46	46.00	-9.54

Test mode: IEEE 802.11a 5745MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table ()			Limit (dB μ V/m)	Margin (dB)
198.54	37.23	1.00	291	-3.36	33.87	43.50	-9.63
260.37	34.11	1.00	45	-3.88	30.23	46.00	-15.77
322.21	32.03	1.00	353	-2.62	29.41	46.00	-16.59
368.29	30.52	1.00	281	-1.83	28.69	46.00	-17.31
433.76	28.30	1.00	295	0.45	28.75	46.00	-17.25

Test mode: IEEE 802.11a 5745MHz for 1GHz to 40GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude <i>Peak / Ave.</i>	Correction Factor	Corrected Amplitude <i>Peak / Ave.</i>	Limit		Margin
						Peak / Ave.	dBµV/m	
MHz	m	degree	dBµV	dB/m	dBµV/m	dBµV/m	dB	
2150.00	1.00	146	41.17	---	8.51	49.68	---	73.96 53.96 -4.28
7477.67	1.00	300	36.77	---	10.27	47.04	---	73.96 53.96 -6.92
15541.83	1.00	310	40.60	---	5.98	46.58	---	73.96 53.96 -7.38
20720.00	1.00	287	45.99	---	2.35	48.34	---	73.96 53.96 -5.62
25901.46	1.00	248	48.32	---	0.64	48.96	---	73.96 53.96 -5.00
36259.37	1.00	162	40.34	---	3.79	44.13	---	73.96 53.96 -9.83

Test mode: IEEE 802.11a 5745MHz for 1GHz to 40GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude <i>Peak / Ave.</i>	Correction Factor	Corrected Amplitude <i>Peak / Ave.</i>	Limit		Margin
						Peak / Ave.	dBµV/m	
MHz	m	degree	dBµV	dB/m	dBµV/m	dBµV/m	dB	
2150.00	1.00	212	42.00	---	8.51	50.51	---	73.96 53.96 -3.45
7417.17	1.00	22	36.11	---	10.37	46.48	---	73.96 53.96 -7.48
15541.83	1.00	131	41.27	---	5.98	47.25	---	73.96 53.96 -6.71
20720.00	1.00	75	46.16	---	2.35	48.51	---	73.96 53.96 -5.45
25901.46	1.00	252	48.49	---	0.64	49.13	---	73.96 53.96 -4.83
36259.37	1.00	225	41.34	---	3.79	45.13	---	73.96 53.96 -8.83

Test mode: IEEE 802.11a 5785MHz for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
198.54	43.87	1.00	250	-3.36	40.51	43.50	-2.99
260.37	39.95	1.00	199	-3.88	36.07	46.00	-9.93
302.81	42.12	1.00	158	-2.86	39.26	46.00	-6.74
369.50	41.53	1.00	171	-1.81	39.72	46.00	-6.28
431.34	38.95	1.00	336	0.34	39.29	46.00	-6.71
500.45	29.36	1.00	305	1.77	31.13	46.00	-14.87

Test mode: IEEE 802.11a 5785MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
197.32	35.49	1.00	282	-3.42	32.07	43.50	-11.43
368.29	32.68	1.00	265	-1.83	30.85	46.00	-15.15
433.76	30.19	1.00	122	0.45	30.64	46.00	-15.36
500.45	28.40	1.00	255	1.77	30.17	46.00	-15.83
564.71	25.39	1.00	286	5.47	30.86	46.00	-15.14
696.87	26.85	1.00	268	9.44	36.29	46.00	-9.71

Test mode: IEEE 802.11a 5785MHz for 1GHz to 40GHz [Horizontal]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>	<i>Correction Factor</i>	<i>Corrected Amplitude</i>	<i>Limit</i>	<i>Margin</i>
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>	<i>dB/m</i>	<i>dBμV/m</i>	<i>dBμV/m</i>	<i>dB</i>
2158.33	1.00	74	40.17	---	8.53	48.70	---
7378.67	1.00	287	36.61	---	10.43	47.04	---
15599.00	1.00	206	41.27	---	5.89	47.16	---
20801.46	1.00	270	45.16	---	2.47	47.63	---
26000.62	1.00	170	47.16	---	1.30	48.46	---
36400.00	1.00	208	40.83	---	3.65	44.48	---

Test mode: IEEE 802.11a 5785MHz for 1GHz to 40GHz [Vertical]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>	<i>Correction Factor</i>	<i>Corrected Amplitude</i>	<i>Limit</i>	<i>Margin</i>
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>	<i>dB/m</i>	<i>dBμV/m</i>	<i>dBμV/m</i>	<i>dB</i>
2158.33	1.00	42	40.17	---	8.53	48.70	---
4266.67	1.00	78	34.50	---	13.51	48.01	---
7415.33	1.00	60	37.44	---	10.37	47.81	---
15599.00	1.00	8	40.27	---	5.89	46.16	---
26000.62	1.00	76	48.32	---	1.30	49.62	---
36400.00	1.00	240	40.33	---	3.65	43.98	---

Test mode: IEEE 802.11a 5805MHz for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
198.54	43.10	1.00	168	-3.36	39.74	43.50	-3.76
302.81	40.86	1.00	168	-2.86	38.00	46.00	-8.00
322.21	39.00	1.00	243	-2.62	36.38	46.00	-9.62
369.50	41.13	1.00	185	-1.81	39.32	46.00	-6.68
434.97	35.21	1.00	195	0.51	35.72	46.00	-10.28

Test mode: IEEE 802.11a 5805MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
198.54	36.43	1.00	287	-3.36	33.07	43.50	-10.43
259.16	34.27	1.00	73	-3.82	30.45	46.00	-15.55
323.42	32.03	1.00	10	-2.60	29.43	46.00	-16.57
369.50	30.54	1.00	277	-1.81	28.73	46.00	-17.27
434.97	28.54	1.00	114	0.51	29.05	46.00	-16.95
698.09	25.41	1.00	293	9.47	34.88	46.00	-11.12

Test mode: IEEE 802.11a 5805MHz for 1GHz to 40GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude <i>Peak / Ave.</i>	Correction Factor	Corrected Amplitude <i>Peak / Ave.</i>	Limit		Margin
						Peak / Ave.	dBµV/m	
MHz	m	degree	dBµV	dB/m	dBµV/m	dBµV/m	dB	
2150.00	1.00	268	39.50	---	8.51	48.01	---	73.96 53.96 -5.95
7444.67	1.00	10	36.11	---	10.32	46.43	---	73.96 53.96 -7.53
15721.50	1.00	254	40.44	---	6.05	46.49	---	73.96 53.96 -7.47
20960.83	1.00	36	47.16	---	2.53	49.69	---	73.96 53.96 -4.27
26202.50	1.00	119	49.16	---	1.59	50.75	---	73.96 53.96 -3.21
31438.75	1.00	197	40.50	---	4.15	44.65	---	73.96 53.96 -9.31

Test mode: IEEE 802.11a 5805MHz for 1GHz to 40GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude <i>Peak / Ave.</i>	Correction Factor	Corrected Amplitude <i>Peak / Ave.</i>	Limit		Margin
						Peak / Ave.	dBµV/m	
MHz	m	degree	dBµV	dB/m	dBµV/m	dBµV/m	dB	
3275.00	1.00	295	35.33	---	11.75	47.08	---	73.96 53.96 -6.88
7365.83	1.00	265	36.61	---	10.42	47.03	---	73.96 53.96 -6.93
10478.50	1.00	209	36.60	---	10.82	47.42	---	73.96 53.96 -6.54
20960.83	1.00	244	44.99	---	2.53	47.52	---	73.96 53.96 -6.44
26202.50	1.00	176	49.49	---	1.59	51.08	---	73.96 53.96 -2.88
36681.25	1.00	26	41.67	---	3.23	44.90	---	73.96 53.96 -9.06

Test mode: IEEE 802.11a 20M 5745MHz for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table ()			Limit (dB μ V/m)	Margin (dB)
198.54	43.78	1.00	256	-3.36	40.42	43.50	-3.08
300.39	42.93	1.00	166	-2.90	40.03	46.00	-5.97
368.29	41.32	1.00	170	-1.83	39.49	46.00	-6.51
436.19	36.95	1.00	177	0.56	37.51	46.00	-8.49
499.24	28.30	1.00	170	1.73	30.03	46.00	-15.97

Test mode: IEEE 802.11a 20M 5745MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table ()			Limit (dB μ V/m)	Margin (dB)
198.54	35.89	1.00	271	-3.36	32.53	43.50	-10.97
302.81	32.00	1.00	343	-2.86	29.14	46.00	-16.86
369.50	32.77	1.00	285	-1.81	30.96	46.00	-15.04
434.97	31.49	1.00	99	0.51	32.00	46.00	-14.00
500.45	28.97	1.00	278	1.77	30.74	46.00	-15.26
700.51	27.08	1.00	278	9.54	36.62	46.00	-9.38

Test mode: IEEE 802.11a 20M 5745MHz for 1GHz to 40GHz [Horizontal]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>	<i>Correction Factor</i>	<i>Corrected Amplitude</i>	<i>Limit</i>	<i>Margin</i>			
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>	<i>dB/m</i>	<i>dBμV/m</i>	<i>dBμV/m</i>	<i>dB</i>			
2493.76	1.00	292	44.84	28.83	9.47	54.31	38.30	73.96	53.96	-15.66
5537.50	1.00	20	34.17	---	16.29	50.46	---	73.96	53.96	-3.50
7650.00	1.00	110	35.60	---	11.01	46.61	---	73.96	53.96	-7.35
25901.46	1.00	296	48.99	---	0.64	49.63	---	73.96	53.96	-4.33
15541.83	1.00	19	47.15	---	0.10	47.25	---	73.96	53.96	-6.71
36259.37	1.00	235	40.34	---	3.79	44.13	---	73.96	53.96	-9.83

Test mode: IEEE 802.11a 20M 5745MHz for 1GHz to 40GHz [Vertical]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>	<i>Correction Factor</i>	<i>Corrected Amplitude</i>	<i>Limit</i>	<i>Margin</i>			
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>	<i>dB/m</i>	<i>dBμV/m</i>	<i>dBμV/m</i>	<i>dB</i>			
2495.83	1.00	254	41.16	---	9.48	50.64	---	73.96	53.96	-3.32
5462.50	1.00	40	34.00	---	16.14	50.14	---	73.96	53.96	-3.82
7404.33	1.00	242	36.61	---	10.39	47.00	---	73.96	53.96	-6.96
20720.00	1.00	245	47.16	---	2.35	49.51	---	73.96	53.96	-4.45
15541.83	1.00	309	47.99	---	0.10	48.09	---	73.96	53.96	-5.87
36259.37	1.00	188	41.33	---	3.79	45.12	---	73.96	53.96	-8.84

Test mode: IEEE 802.11a 20M 5785MHz for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
198.54	43.55	1.00	255	-3.36	40.19	43.50	-3.31
302.81	43.15	1.00	177	-2.86	40.29	46.00	-5.71
322.21	37.63	1.00	146	-2.62	35.01	46.00	-10.99
368.29	41.27	1.00	166	-1.83	39.44	46.00	-6.56
434.97	37.33	1.00	187	0.51	37.84	46.00	-8.16
499.24	29.20	1.00	302	1.73	30.93	46.00	-15.07

Test mode: IEEE 802.11a 20M 5785MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
168.22	30.89	1.00	209	-4.10	26.79	43.50	-16.71
198.54	35.31	1.00	158	-3.36	31.95	43.50	-11.55
301.60	32.21	1.00	333	-2.88	29.33	46.00	-16.67
501.66	27.80	1.00	264	1.85	29.65	46.00	-16.35
696.87	26.29	1.00	272	9.44	35.73	46.00	-10.27

Test mode: IEEE 802.11a 20M 5785MHz for 1GHz to 40GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude		Correction Factor	Corrected Amplitude		Limit	Margin
			Peak / Ave.	Peak / Ave.		Peak / Ave.	Peak / Ave.		
MHz	m	degree	dB μ V		dB/m	dB μ V/m		dB μ V/m	dB
2493.80	1.00	259	46.00	28.67	9.47	55.47	38.14	73.96	53.96 -15.82
5658.33	1.00	124	33.66	---	16.45	50.11	---	73.96	53.96 -3.85
7422.67	1.00	260	35.77	---	10.36	46.13	---	73.96	53.96 -7.83
15599.00	1.00	360	46.32	---	0.23	46.55	---	73.96	53.96 -7.41
26000.62	1.00	223	47.49	---	1.30	48.79	---	73.96	53.96 -5.17
36400.00	1.00	190	40.33	---	3.65	43.98	---	73.96	53.96 -9.98

Test mode: IEEE 802.11a 20M 5785MHz for 1GHz to 40GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude		Correction Factor	Corrected Amplitude		Limit	Margin
			Peak / Ave.	Peak / Ave.		Peak / Ave.	Peak / Ave.		
MHz	m	degree	dB μ V		dB/m	dB μ V/m		dB μ V/m	dB
1664.17	1.00	224	40.76	24.17	13.33	54.09	37.50	73.96	53.96 -16.46
2491.01	1.00	182	44.66	28.33	9.46	54.12	37.79	73.96	53.96 -16.17
7650.00	1.00	105	35.60	---	11.01	46.61	---	73.96	53.96 -7.35
15599.00	1.00	49	47.16	---	0.23	47.39	---	73.96	53.96 -6.57
26000.62	1.00	5	47.66	---	1.30	48.96	---	73.96	53.96 -5.00
36400.00	1.00	115	40.66	---	3.65	44.31	---	73.96	53.96 -9.65

Test mode: IEEE 802.11a 20M 5805MHz for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table ()			Limit (dB μ V/m)	Margin (dB)
151.25	41.07	1.00	197	-4.35	36.72	43.50	-6.78
197.32	43.53	1.00	258	-3.42	40.11	43.50	-3.39
301.60	43.43	1.00	156	-2.88	40.55	46.00	-5.45
367.07	41.53	1.00	262	-1.86	39.67	46.00	-6.33
433.76	37.04	1.00	312	0.45	37.49	46.00	-8.51
501.66	27.34	1.00	173	1.85	29.19	46.00	-16.81

Test mode: IEEE 802.11a 20M 5805MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table ()			Limit (dB μ V/m)	Margin (dB)
198.54	35.30	1.00	153	-3.36	31.94	43.50	-11.56
300.39	31.82	1.00	357	-2.90	28.92	46.00	-17.08
367.07	32.61	1.00	278	-1.86	30.75	46.00	-15.25
434.97	29.91	1.00	95	0.51	30.42	46.00	-15.58
501.66	29.11	1.00	115	1.85	30.96	46.00	-15.04
696.87	26.13	1.00	271	9.44	35.57	46.00	-10.43

Test mode: IEEE 802.11a 20M 5805MHz for 1GHz to 40GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude <i>Peak / Ave.</i>	Correction Factor	Corrected Amplitude <i>Peak / Ave.</i>	Limit		Margin
						<i>Peak / Ave.</i>	<i>dBμV/m</i>	
MHz	m	degree	<i>dBμV</i>	<i>dB/m</i>	<i>dBμV/m</i>	<i>dBμV/m</i>	<i>dB</i>	
1658.33	1.00	268	36.67	---	13.42	50.09	---	73.96 53.96 -3.87
2493.64	1.00	321	45.00	28.83	9.47	54.47	38.30	73.96 53.96 -15.66
7595.00	1.00	118	35.11	---	10.88	45.99	---	73.96 53.96 -7.97
15721.50	1.00	204	46.99	---	0.53	47.52	---	73.96 53.96 -6.44
26202.50	1.00	314	50.32	---	1.59	51.91	---	73.96 53.96 -2.05
31438.75	1.00	23	40.50	---	4.15	44.65	---	73.96 53.96 -9.31

Test mode: IEEE 802.11a 20M 5805MHz for 1GHz to 40GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude <i>Peak / Ave.</i>	Correction Factor	Corrected Amplitude <i>Peak / Ave.</i>	Limit		Margin
						<i>Peak / Ave.</i>	<i>dBμV/m</i>	
MHz	m	degree	<i>dBμV</i>	<i>dB/m</i>	<i>dBμV/m</i>	<i>dBμV/m</i>	<i>dB</i>	
2492.08	1.00	118	44.50	28.83	9.47	53.97	38.30	73.96 53.96 -15.66
5654.17	1.00	187	33.00	---	16.44	49.44	---	73.96 53.96 -4.52
7329.17	1.00	33	37.44	---	10.34	47.78	---	73.96 53.96 -6.18
15721.50	1.00	331	46.66	---	0.53	47.19	---	73.96 53.96 -6.77
26202.50	1.00	54	48.32	---	1.59	49.91	---	73.96 53.96 -4.05
31438.75	1.00	319	40.16	---	4.15	44.31	---	73.96 53.96 -9.65

Test mode: IEEE 802.11a 40M 5755MHz for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
169.44	34.55	1.00	128	-4.11	30.44	43.50	-13.06
197.32	43.55	1.00	142	-3.42	40.13	43.50	-3.37
259.16	38.11	1.00	69	-3.82	34.29	46.00	-11.71
301.60	41.88	1.00	156	-2.88	39.00	46.00	-7.00
369.50	40.48	1.00	10	-1.81	38.67	46.00	-7.33
433.76	35.43	1.00	183	0.45	35.88	46.00	-10.12

Test mode: IEEE 802.11a 40M 5755MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
169.44	33.71	1.00	164	-4.11	29.60	43.50	-13.90
198.54	35.14	1.00	241	-3.36	31.78	43.50	-11.72
367.07	31.81	1.00	84	-1.86	29.95	46.00	-16.05
564.71	24.17	1.00	279	5.47	29.64	46.00	-16.36
601.09	25.55	1.00	166	6.49	32.04	46.00	-13.96
698.09	26.09	1.00	251	9.47	35.56	46.00	-10.44

Test mode: IEEE 802.11a 40M 5755MHz for 1GHz to 40GHz [Horizontal]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>	<i>Correction Factor</i>	<i>Corrected Amplitude</i>	<i>Limit</i>	<i>Margin</i>			
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>	<i>dB/m</i>	<i>dBμV/m</i>	<i>dBμV/m</i>	<i>dB</i>			
2491.43	1.00	235	45.01	28.50	9.47	54.48	37.97	73.96	53.96	-15.99
5475.00	1.00	61	33.84	---	16.17	50.01	---	73.96	53.96	-3.95
6874.50	1.00	16	37.10	---	9.42	46.52	---	73.96	53.96	-7.44
15570.42	1.00	49	47.33	---	0.16	47.49	---	73.96	53.96	-6.47
25951.04	1.00	32	47.82	---	0.81	48.63	---	73.96	53.96	-5.33
36332.50	1.00	242	41.50	---	3.74	45.24	---	73.96	53.96	-8.72

Test mode: IEEE 802.11a 40M 5755MHz for 1GHz to 40GHz [Vertical]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>	<i>Correction Factor</i>	<i>Corrected Amplitude</i>	<i>Limit</i>	<i>Margin</i>			
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>	<i>dB/m</i>	<i>dBμV/m</i>	<i>dBμV/m</i>	<i>dB</i>			
2491.97	1.00	240	44.48	28.67	9.47	53.95	38.14	73.96	53.96	-15.82
5545.83	1.00	139	33.00	---	16.30	49.30	---	73.96	53.96	-4.66
7639.00	1.00	100	35.61	---	11.04	46.65	---	73.96	53.96	-7.31
15570.42	1.00	211	47.33	---	0.16	47.49	---	73.96	53.96	-6.47
25951.04	1.00	12	48.99	---	0.81	49.80	---	73.96	53.96	-4.16
36322.50	1.00	61	40.32	---	3.74	44.06	---	73.96	53.96	-9.90

Test mode: IEEE 802.11a 40M 5795MHz for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
168.22	34.91	1.00	144	-4.10	30.81	43.50	-12.69
197.32	43.48	1.00	158	-3.42	40.06	43.50	-3.44
261.59	40.63	1.00	96	-3.88	36.75	46.00	-9.25
300.39	41.69	1.00	158	-2.90	38.79	46.00	-7.21
368.29	40.97	1.00	175	-1.83	39.14	46.00	-6.86
504.09	27.48	1.00	298	2.01	29.49	46.00	-16.51

Test mode: IEEE 802.11a 40M 5795MHz for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
169.44	33.43	1.00	192	-4.11	29.32	43.50	-14.18
198.54	34.59	1.00	245	-3.36	31.23	43.50	-12.27
302.81	31.91	1.00	245	-2.86	29.05	46.00	-16.95
370.71	31.67	1.00	308	-1.78	29.89	46.00	-16.11
436.19	28.23	1.00	101	0.56	28.79	46.00	-17.21
696.87	26.20	1.00	250	9.44	35.64	46.00	-10.36

Test mode: IEEE 802.11a 40M 5795MHz for 1GHz to 40GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude		Correction Factor	Corrected Amplitude		Limit	Margin
			Peak / Ave.	Peak / Ave.		Peak / Ave.	Peak / Ave.		
MHz	m	degree	dB μ V		dB/m	dB μ V/m		dB μ V/m	dB
2492.21	1.00	297	45.16	28.83	9.47	54.63	38.30	73.96	53.96 -15.66
5566.67	1.00	82	33.00	---	16.33	49.33	---	73.96	53.96 -4.63
7441.00	1.00	4	36.94	---	10.33	47.27	---	73.96	53.96 -6.69
15692.92	1.00	49	47.65	---	0.46	48.11	---	73.96	53.96 -5.85
26149.37	1.00	204	49.16	---	0.92	50.08	---	73.96	53.96 -3.88
36608.12	1.00	276	40.50	---	3.40	43.90	---	73.96	53.96 -10.06

Test mode: IEEE 802.11a 40M 5795MHz for 1GHz to 40GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude		Correction Factor	Corrected Amplitude		Limit	Margin
			Peak / Ave.	Peak / Ave.		Peak / Ave.	Peak / Ave.		
MHz	m	degree	dB μ V		dB/m	dB μ V/m		dB μ V/m	dB
1661.24	1.00	141	38.82	24.33	13.37	52.19	37.70	73.96	53.96 -16.26
2494.58	1.00	122	43.16	27.67	9.47	52.63	37.14	73.96	53.96 -16.82
7941.50	1.00	267	36.60	---	10.86	47.46	---	73.96	53.96 -6.50
15692.92	1.00	302	46.49	---	0.46	46.95	---	73.96	53.96 -7.01
26149.37	1.00	176	48.82	---	0.92	49.74	---	73.96	53.96 -4.22
36608.12	1.00	86	41.66	---	3.40	45.06	---	73.96	53.96 -8.90

VII. Section 15.247(d): Power Spectral Density

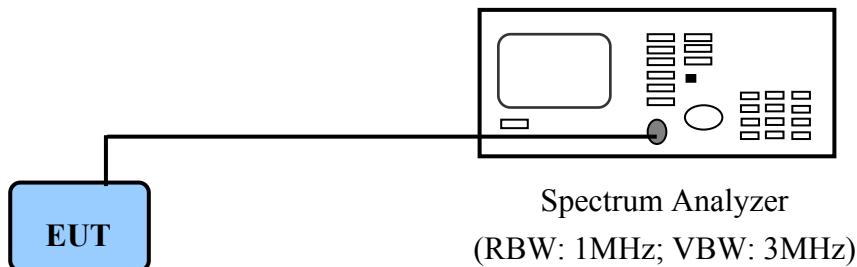
7.1 Test Condition & Setup

The tests below are running with the EUT transmitter set at high power mode. The EUT is needed to force selection of output power level and channel number. While testing, the EUT was set to transmit continuously and to be tested by the contact manner with the spectrum analyzer.

The test is performed accordance with FCC Public Notice: APPENDIX A Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices – Part 15, Subpart E, August 2002.(FCC Public Notice DA02-2138A1)

The transmitter output operates continuously therefore Method # 1 is used.

7.2 Test Instruments Configuration



PC to control the EUT at maximal power output and channel number and set antenna kit

7.3 List of Test Instruments

Instrument Name	Model No.	Brand	Serial No.	Next time
Spectrum Analyzer	MS2665C	ANRITSU	6200175476	12/19/09

7.4 Test Result of Power spectral density

The following table shows a summary of the test results of the Power Spectral Density.

IEEE 802.11a: Operated at 5150 MHz to 5250 MHz

Antenna#1

Frequencies (MHz)	Ppr (dBm)	Cable Loss (dB)	Ppq (dBm)	Limit (dBm)	Margin (dB)
5180	1.98	1.00	2.98	4.00	-1.02
5200	2.21	1.00	3.21	4.00	-0.79
5240	2.27	1.00	3.27	4.00	-0.73

Antenna#2

Frequencies (MHz)	Ppr (dBm)	Cable Loss (dB)	Ppq (dBm)	Limit (dBm)	Margin (dB)
5180	0.82	1.00	1.82	4.00	-2.18
5200	0.69	1.00	1.69	4.00	-2.31
5240	0.80	1.00	1.80	4.00	-2.20
5180	0.82	1.00	1.82	(4-1.74) 2.62	-0.80
5200	0.69	1.00	1.69	(4-1.88) 2.12	-0.43
5240	0.80	1.00	1.80	(4-1.88) 2.12	-0.32

Limit: According to 15.407 (a)(1) and (2), the maximum gain of antenna #2 including 7.74 dBi of operated at frequency 5180 MHz and 7.88 dBi of operated at frequencies 5200 MHz and 5240 MHz which are higher than 6dBi, so the limits of output power of each channel shall be reduced by 1.74 dB and 1.88 dB accordingly

IEEE 802.11a 20M

Frequencies (MHz)	Ant#1 Ppr	Ant#2 Ppr	Cable Loss	Ppq	Limit	Margin
	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
5180	0.27	-3.16	1.00	2.90	4.00	-1.10
5200	0.27	-3.15	1.00	2.90	4.00	-1.10
5240	0.17	-3.08	1.00	2.85	4.00	-1.15
5180	-0.14	-4.73	1.00	2.16	(4-1.74) 2.26	-0.10
5200	-0.54	-4.91	1.00	1.81	(4-1.88) 2.12	-0.31
5240	-0.43	-4.75	1.00	1.94	(4-1.88) 2.12	-0.18

IEEE 802.11a 40M

Frequencies (MHz)	Ant#1 Ppr	Ant#2 Ppr	Cable Loss	Ppq	Limit	Margin
	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
5190	0.60	-1.12	1.00	3.52	4.00	-0.48
5230	0.02	-0.70	1.00	3.69	4.00	-0.31
5190	-1.40	-2.50	1.00	2.10	(4-1.74) 2.26	-0.16
5230	-1.74	-2.59	1.00	1.87	(4-1.88) 2.12	-0.25

Note:

1. The following pages show the results of spectrum reading.
2. Ppr: spectrum read power density (using peak search mode),
Ppq: actual peak power density in the spread spectrum band.
3. Ppq = Ppr + Cable Loss

Limit: According to 15.407 (a)(1) and (2), the maximum gain of antenna #2 including 7.74 dBi of operated at frequency 5190 MHz and 7.88 dBi of operated at frequency 5200 MHz, 5230 MHz and 5240 MHz which are higher than 6dBi, so the limits of output power of each channel shall be reduced by 1.74 dB and 1.88 dB accordingly.

IEEE 802.11a: Operated at 5725MHz to 5825 MHz

Antenna#1

<i>Frequencies (MHz)</i>	<i>Ppr (dBm)</i>	<i>Cable Loss (dB)</i>	<i>Ppq (dBm)</i>	<i>Limit (dBm)</i>	<i>Margin (dB)</i>
5745	1.75	1.00	3.52	17.00	-0.48
5785	1.76	1.00	3.68	17.00	-0.32
5805	1.48	1.00	3.61	17.00	-0.39

Antenna#2

<i>Frequencies (MHz)</i>	<i>Ppr (dBm)</i>	<i>Cable Loss (dB)</i>	<i>Ppq (dBm)</i>	<i>Limit (dBm)</i>	<i>Margin (dB)</i>
5745	-0.41	1.00	0.59	17.00	-16.41
5785	-0.57	1.00	0.43	17.00	-16.57
5805	-1.09	1.00	-0.09	17.00	-17.09
5745	-0.41	1.00	0.59	(17-0.29) 16.71	-16.12
5785	-0.57	1.00	0.43	(17-0.29) 16.71	-16.28
5805	-1.09	1.00	-0.09	(17-0.00) 17.00	-17.09

Limit: According to 15.407 (a)(1) and (2), the maximum gain of antenna #2 including 6.29 dBi operated at frequencies 5745 MHz and 5785 MHz which is higher than 6dBi, so the limits of output power of each channel (5745 MHz and 5785 MHz) shall be reduced by 0.29 dB accordingly. Antenna gain of operated frequency 5805 MHz is 5.33dBi.

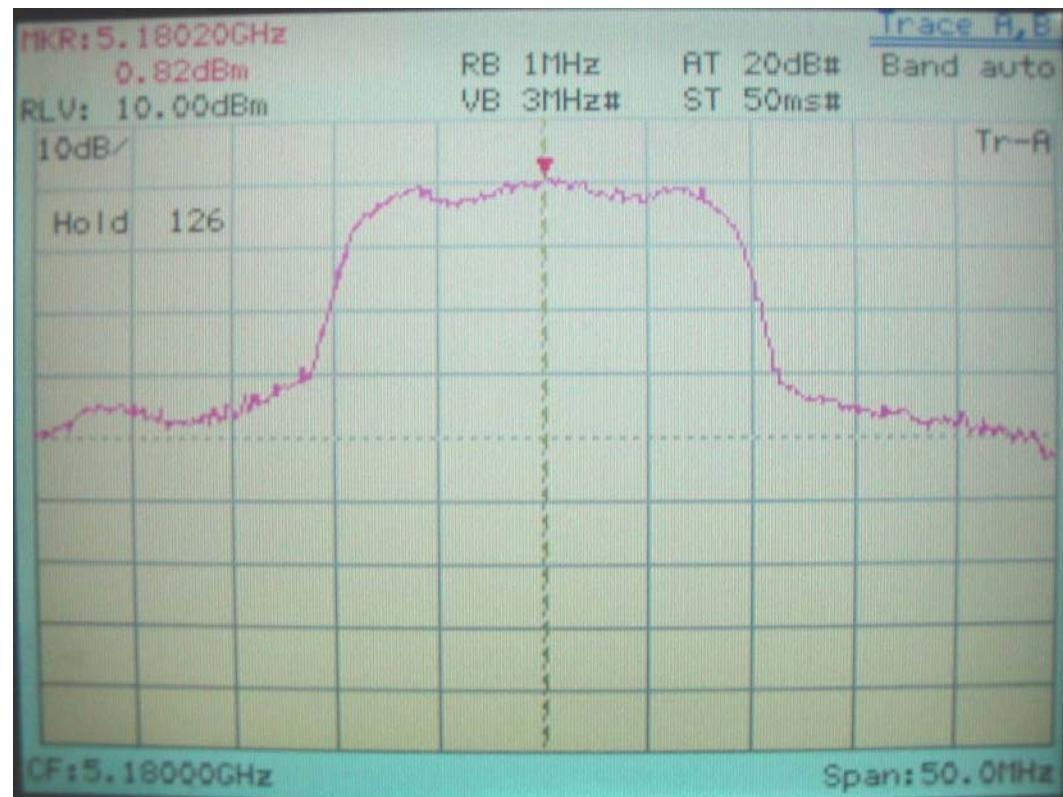
IEEE 802.11a 20M

Frequencies (MHz)	Ant#1 Ppr	Ant#2 Ppr	Cable Loss	Ppq	Limit	Margin
	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB)
5745	1.06	0.10	1.00	4.62	17.00	-12.38
5785	2.55	1.07	1.00	5.88	17.00	-11.12
5805	1.36	0.01	1.00	4.75	17.00	-12.25
5745	1.06	0.10	1.00	4.62	(17-0.29) 16.71	-12.09
5785	2.55	1.07	1.00	5.88	(17-0.29) 16.71	-10.83
5805	1.36	0.01	1.00	4.75	(17-0.00) 17.00	-12.25

IEEE 802.11a 40M

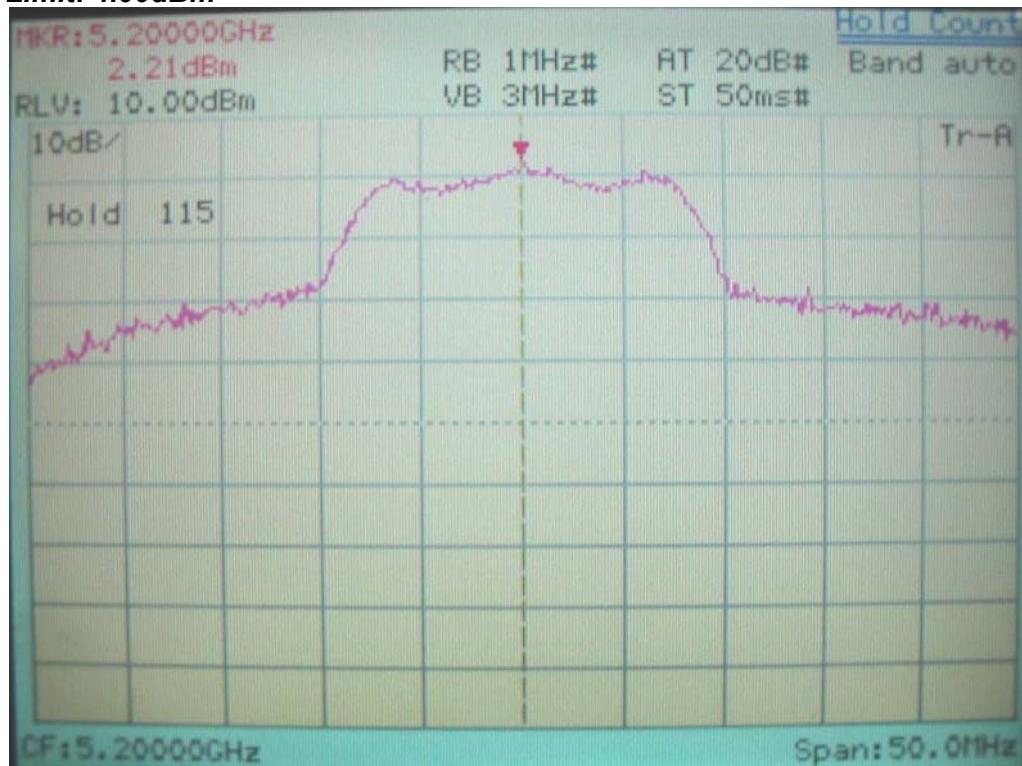
Frequencies (MHz)	Ant#1 Ppr	Ant#2 Ppr	Cable Loss	Ppq	Limit	Margin
	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB)
5755	-2.90	-4.40	1.00	0.42	17.00	-16.58
5795	-2.79	-4.80	1.00	0.33	17.00	-16.67
5755	-2.90	-4.40	1.00	0.42	(17-0.29) 16.71	-16.29
5795	-2.79	-4.80	1.00	0.33	(17-0.00) 17.00	-16.67

Limit: According to 15.407 (a)(1) and (2), the maximum gain of antenna #2 including 6.29 dBi operated at frequencies 5745 MHz, 5755 MHz and 5785 MHz which is higher than 6dBi, so the limits of output power of each channel (5745 MHz, 5755 MHz and 5785 MHz) shall be reduced by 0.29 dB accordingly. Antenna gain of operated frequency 5795 MHz and 5805 MHz is 5.33dBi.

Power Spectral Density for IEEE 802.11a, 5180MHz**Limit: 4.00dBm****Ant#1****Limits: 4.00dBm; 2.26dBm****Ant#2**

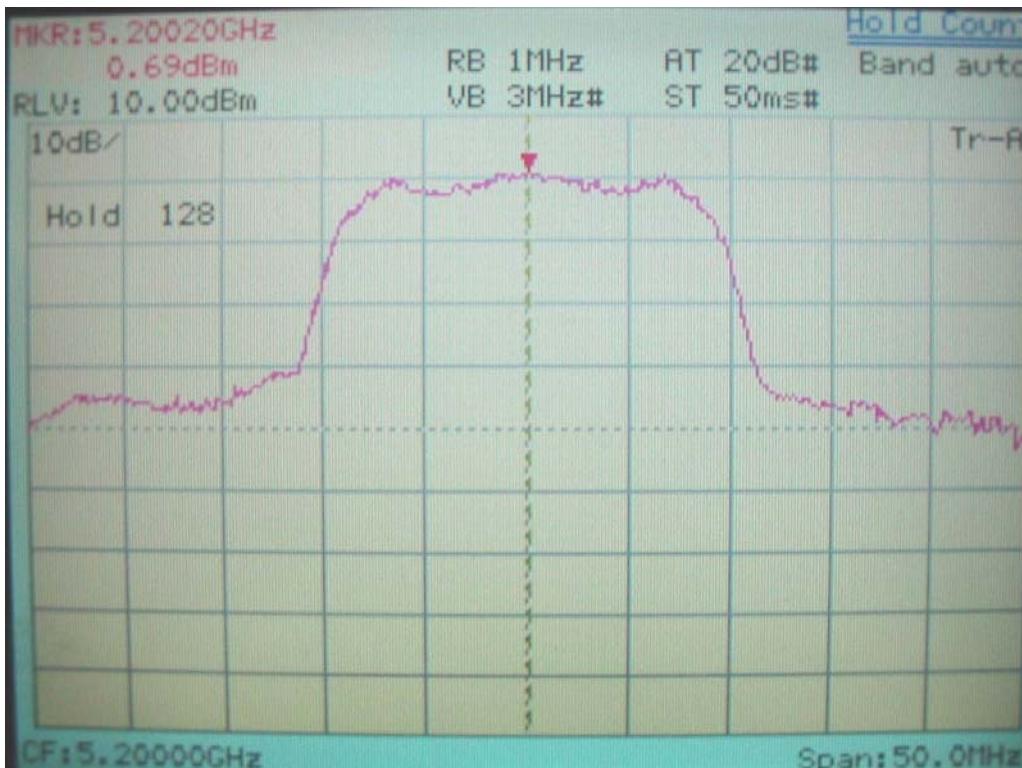
Power Spectral Density for IEEE 802.11a, 5200MHz

Limit: 4.00dBm



Ant#1

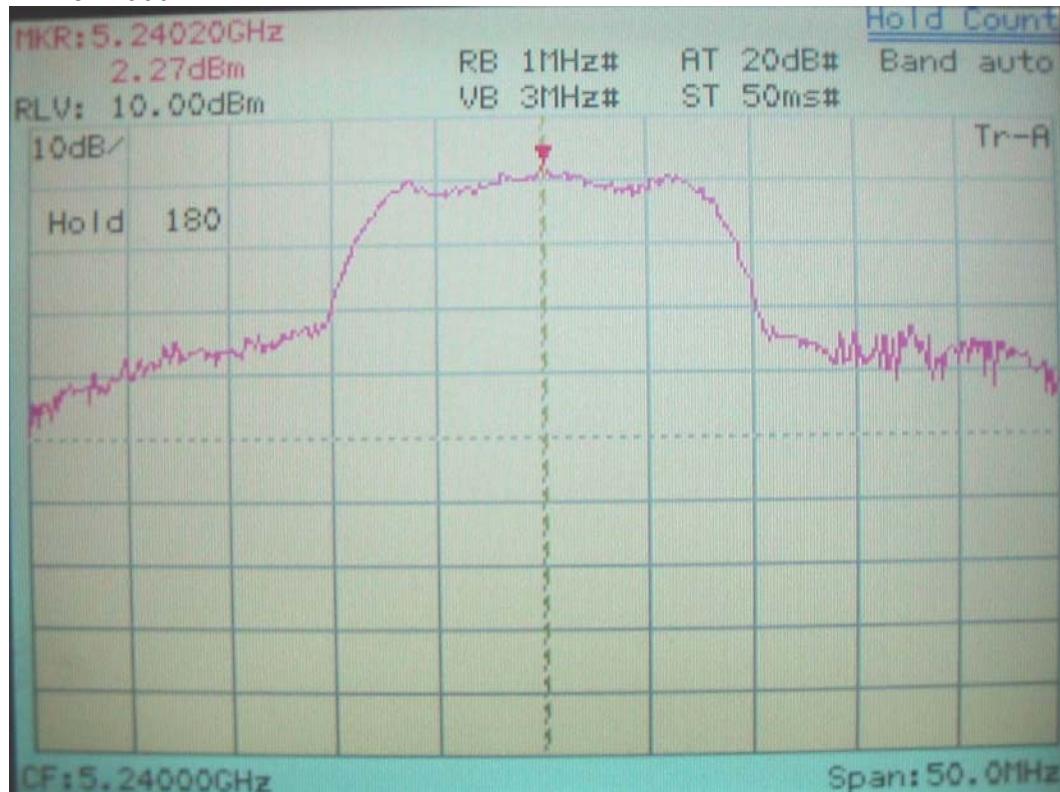
Limits: 4.00dBm; 2.12dBm



Ant#2

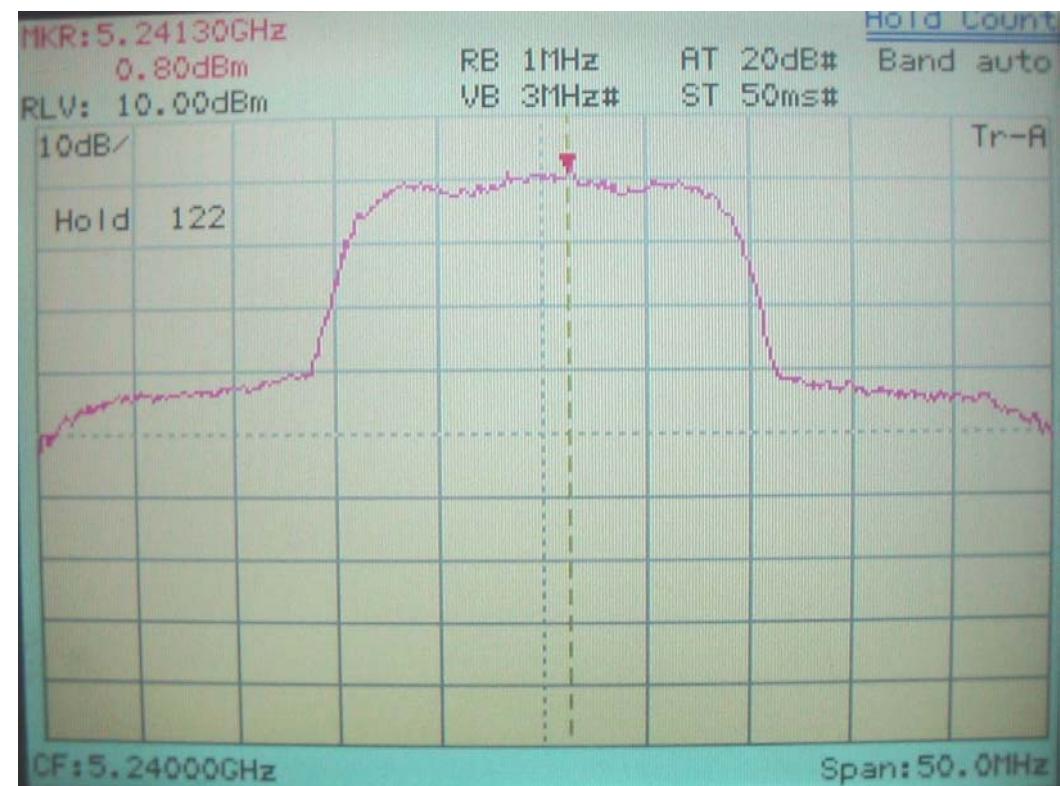
Power Spectral Density for IEEE 802.11a, 5240MHz

Limit: 4.00dBm

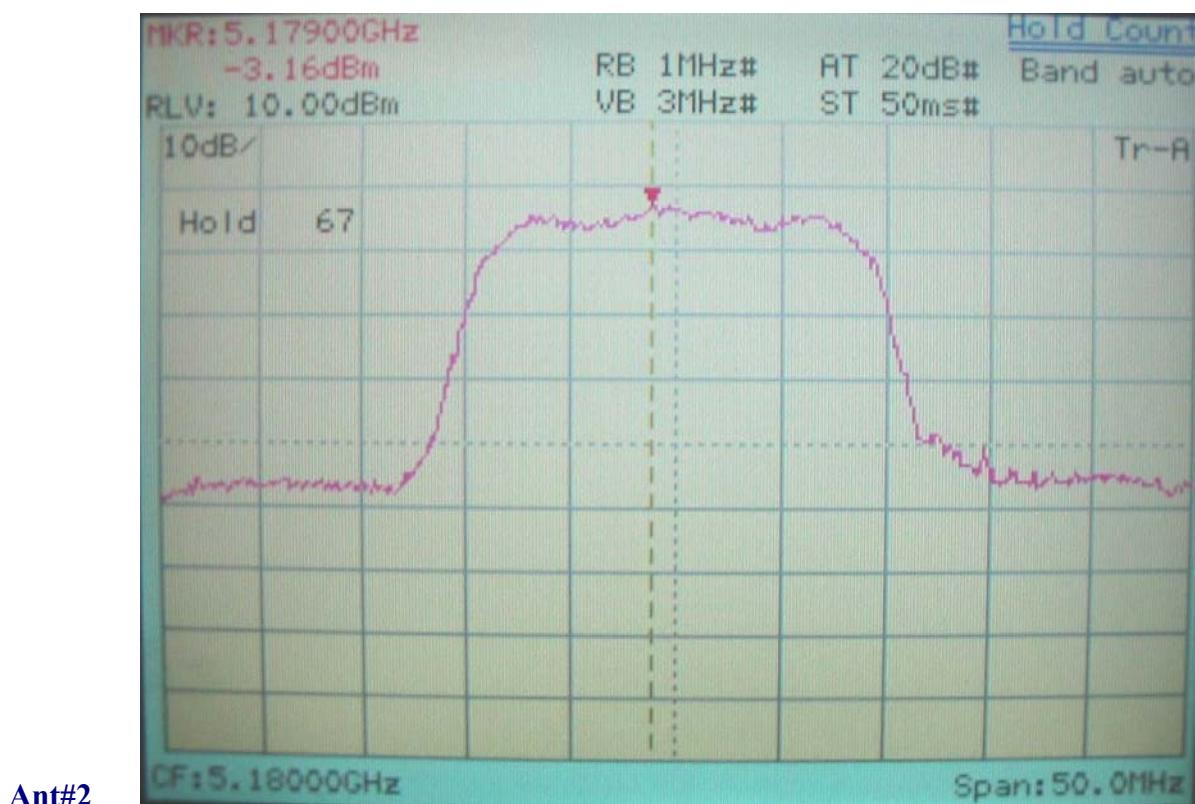
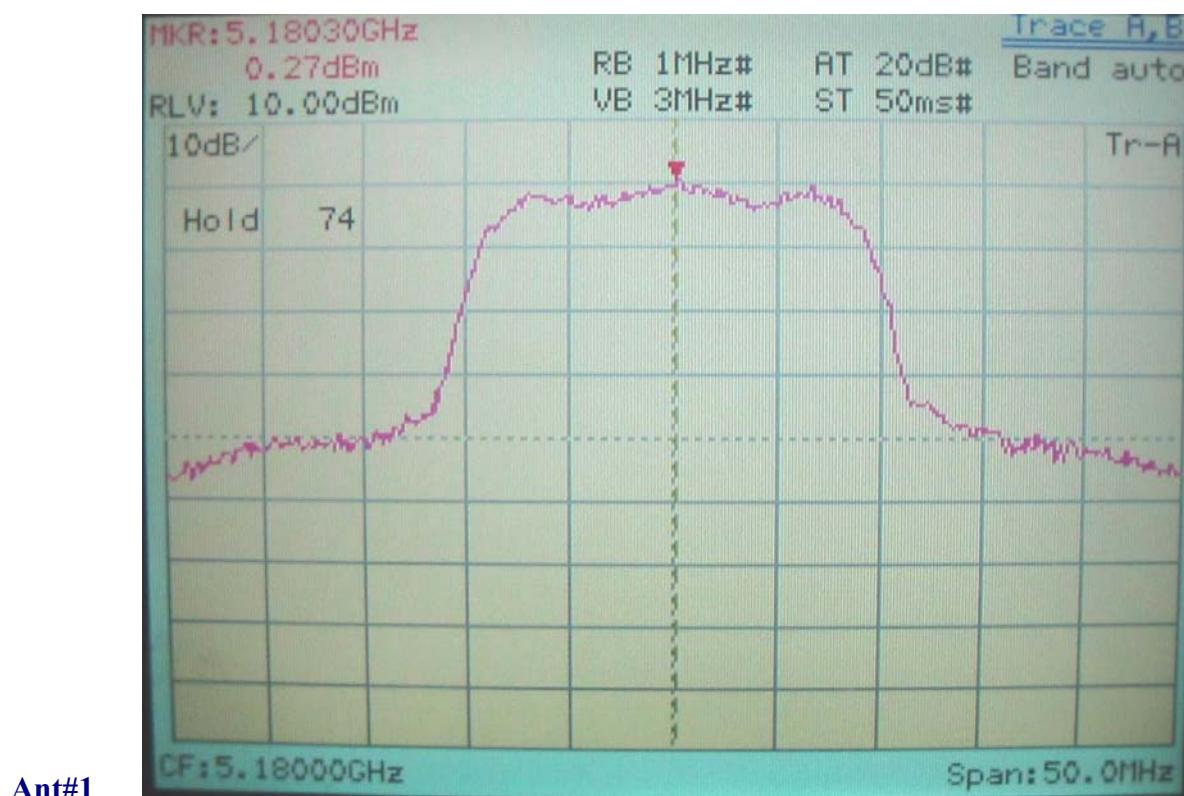


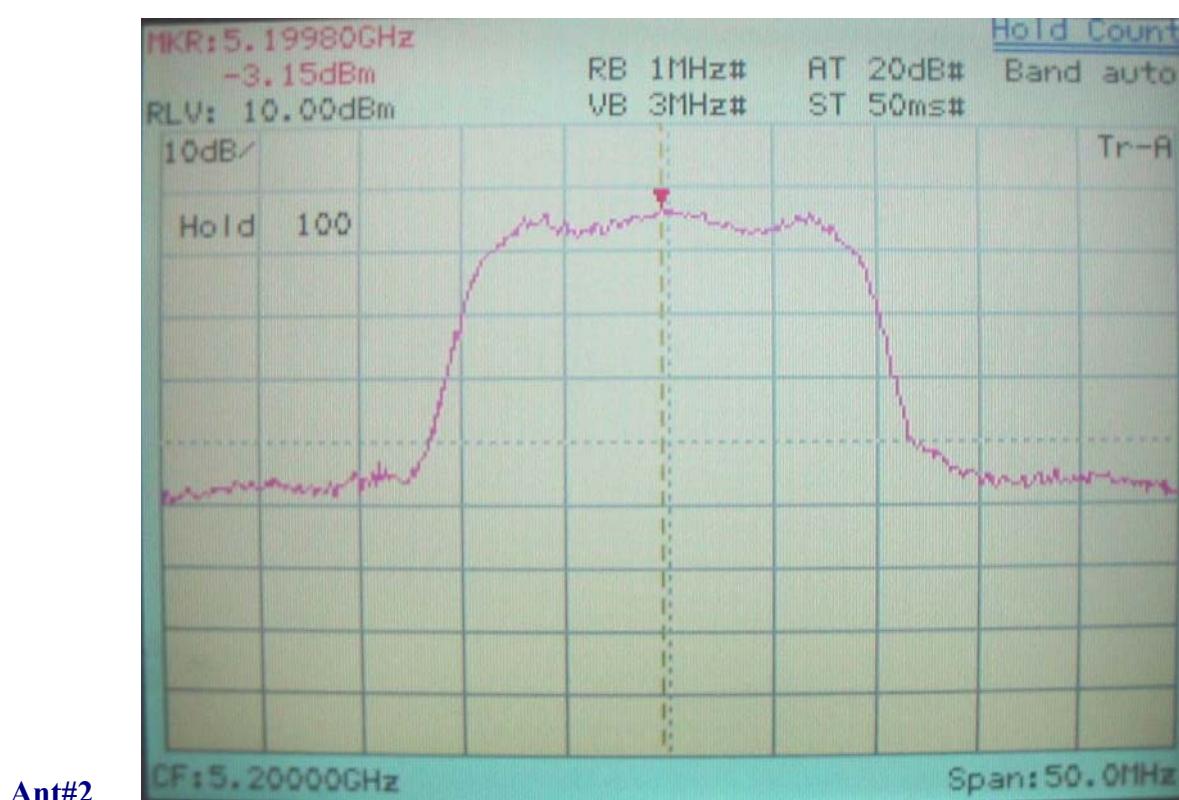
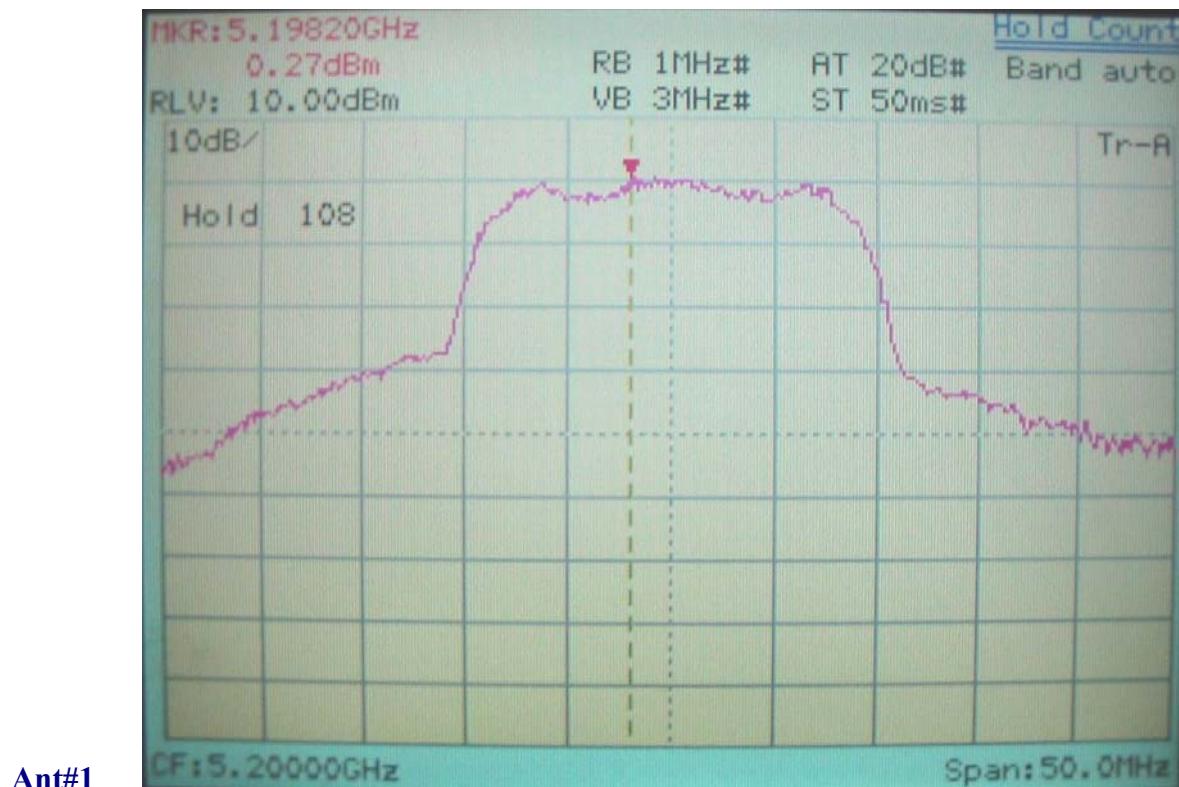
Ant#1

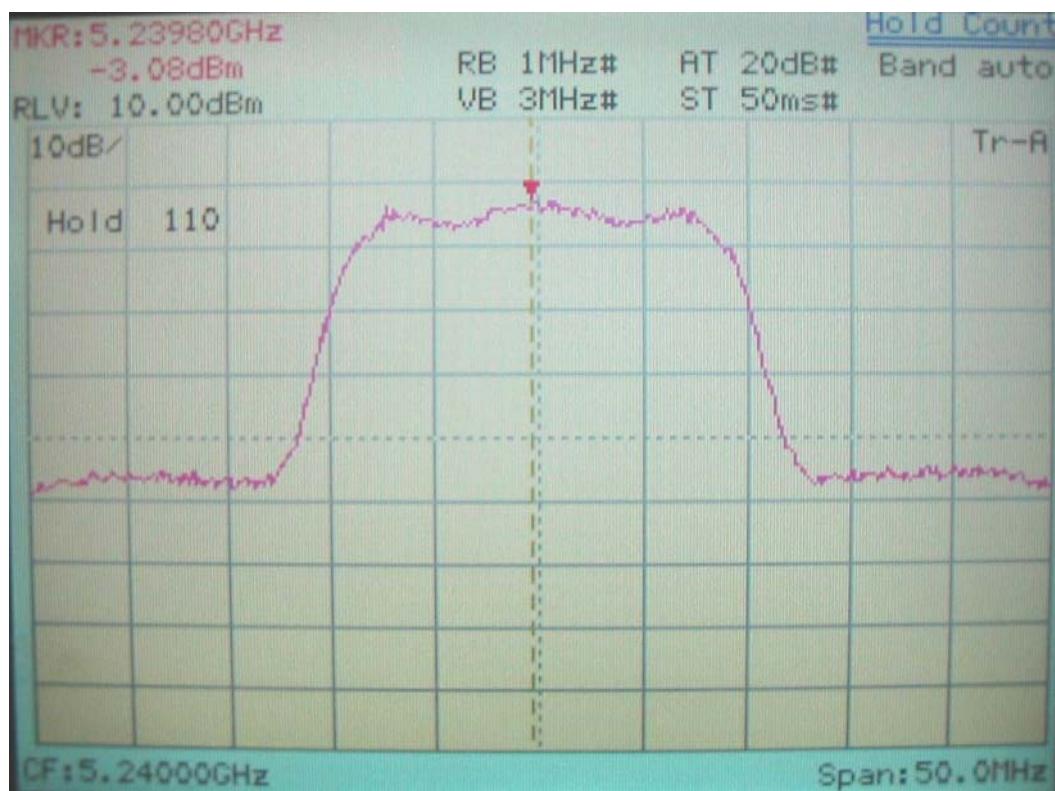
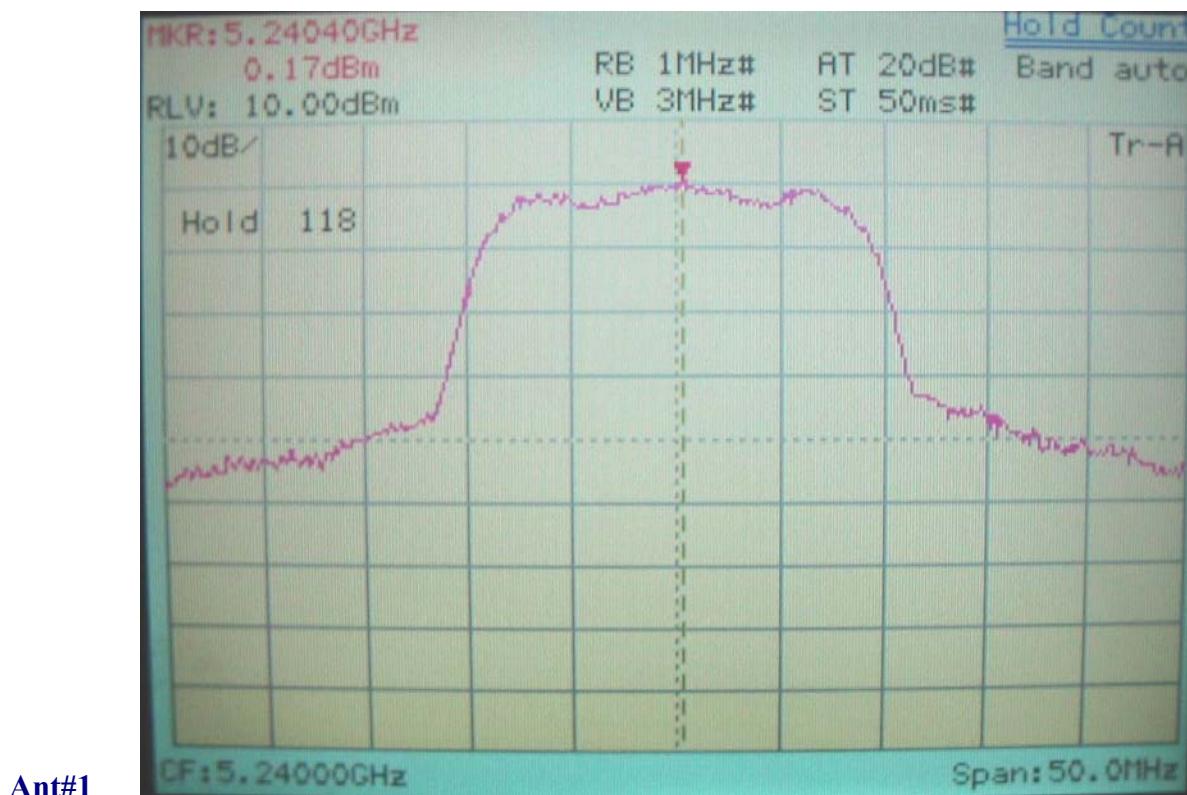
Limit: 4.00dBm; 2.12dBm

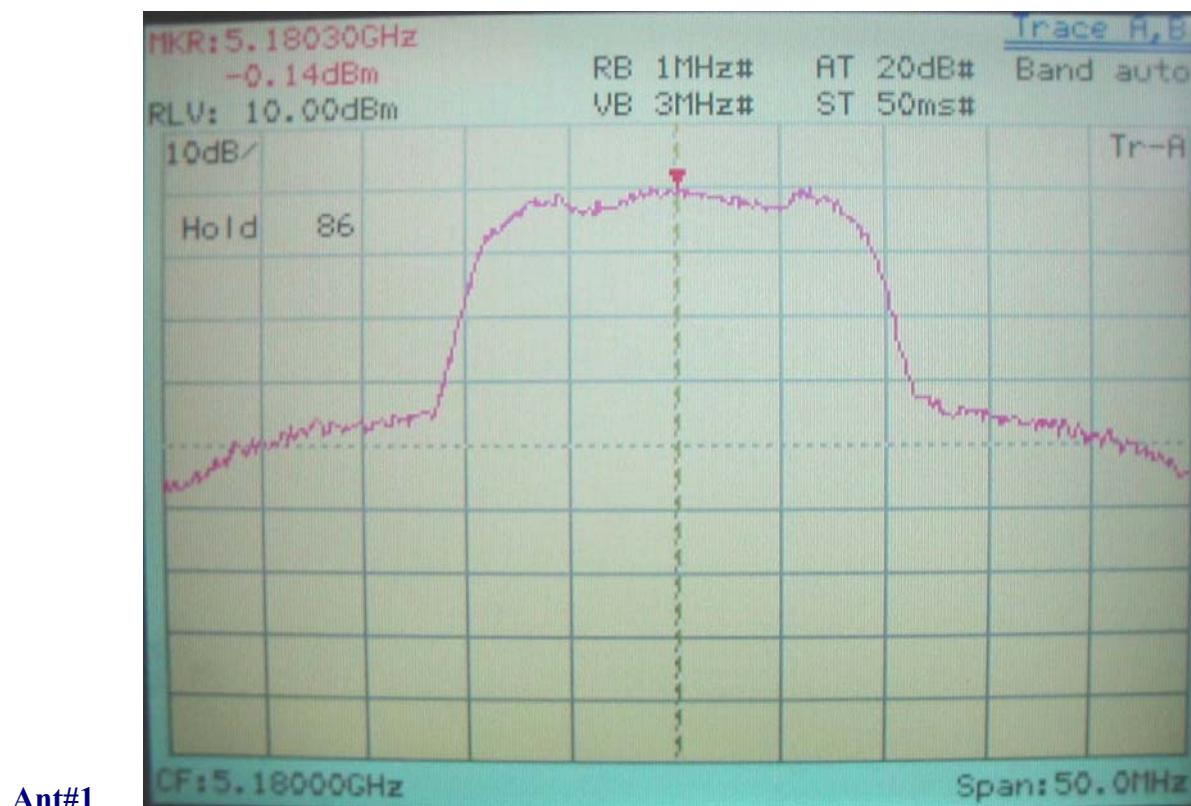


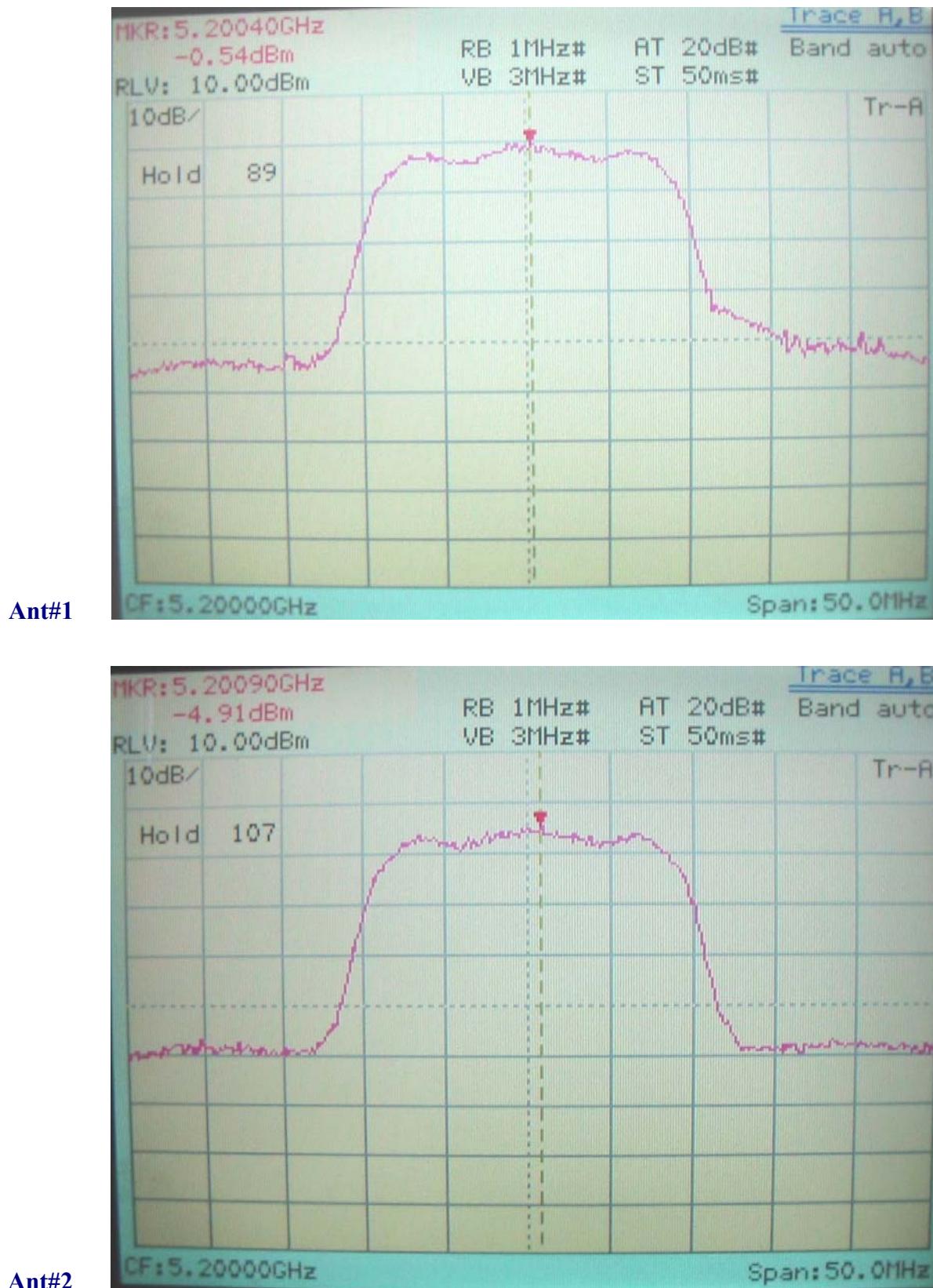
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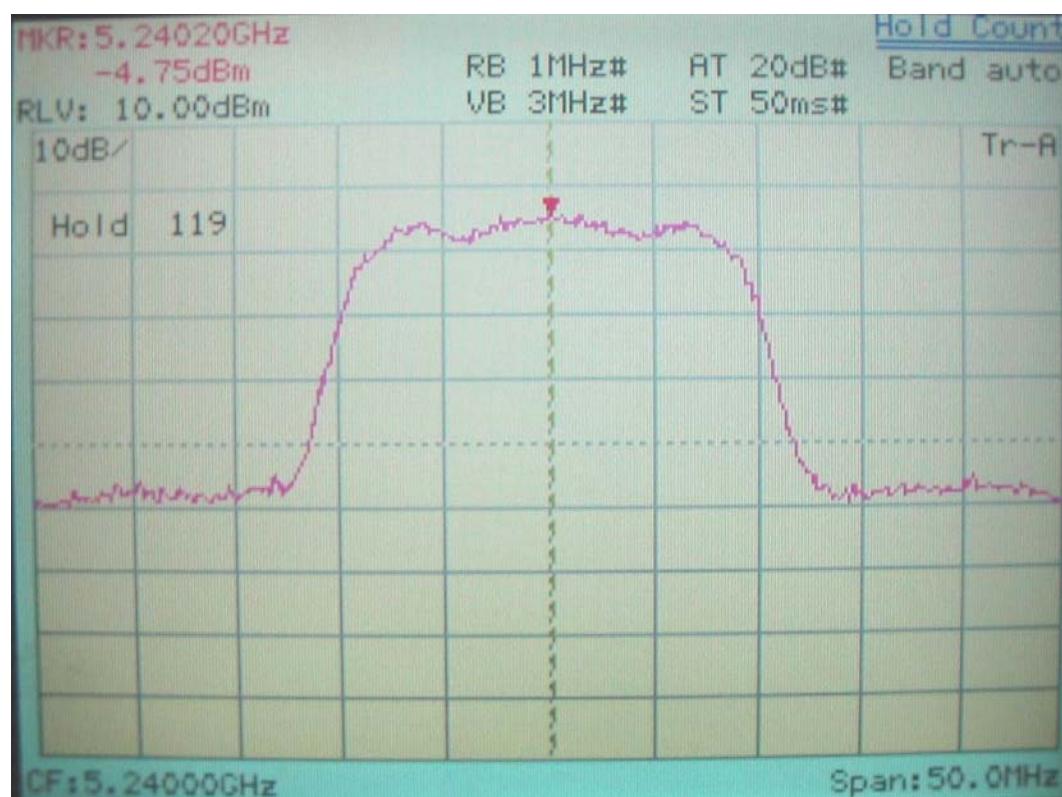
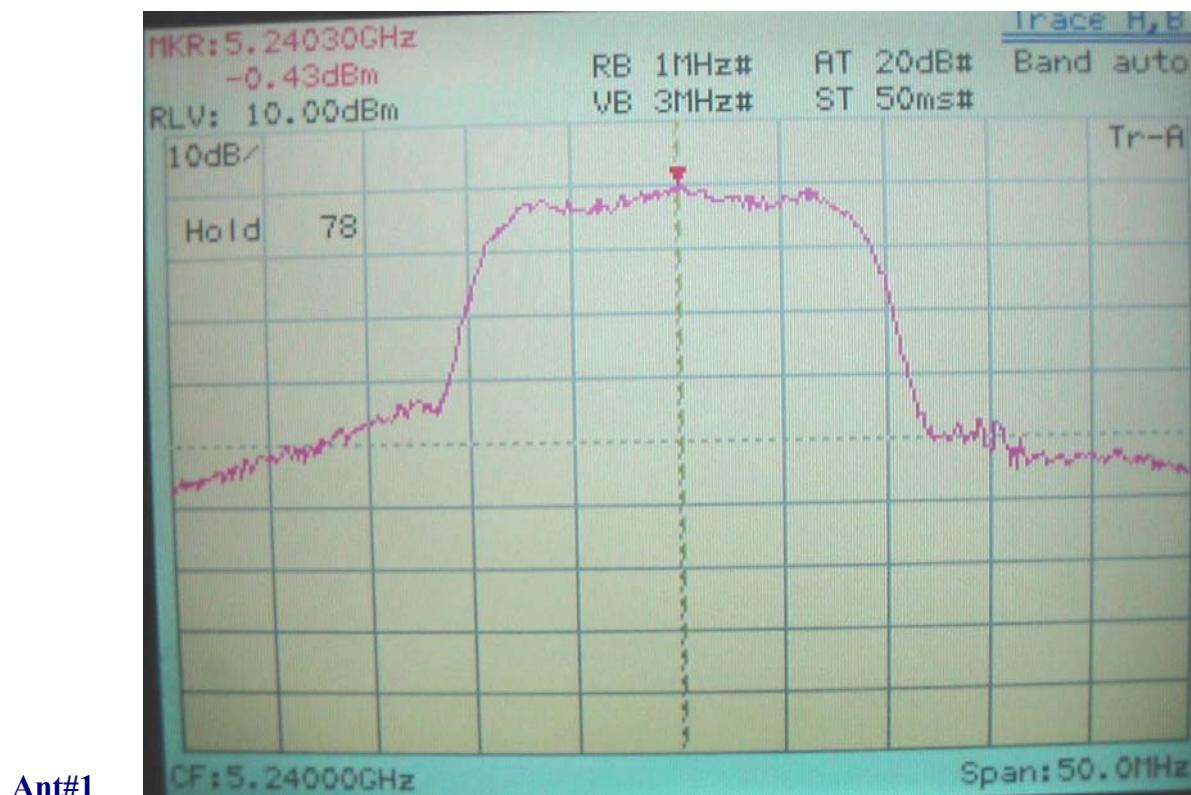
Power Spectral Density for IEEE 802.11a 20M, 5180MHz (Limit: 4.00dBm)

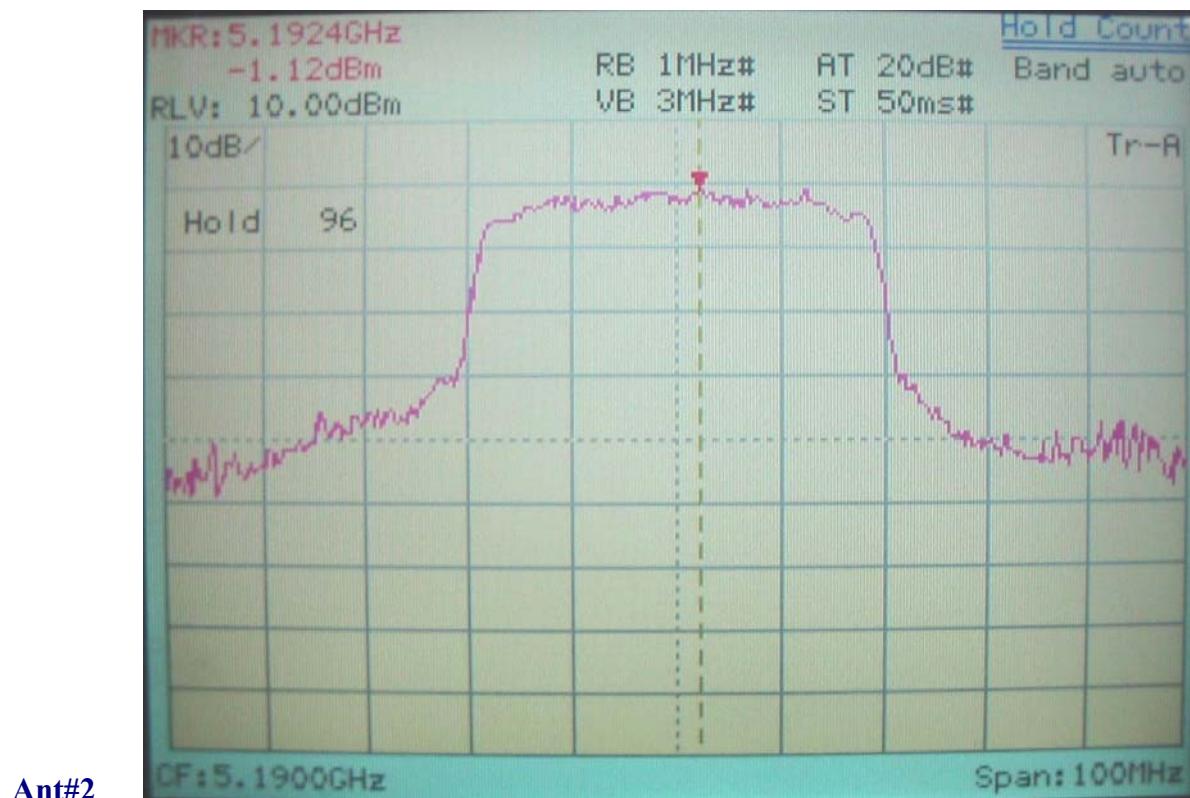
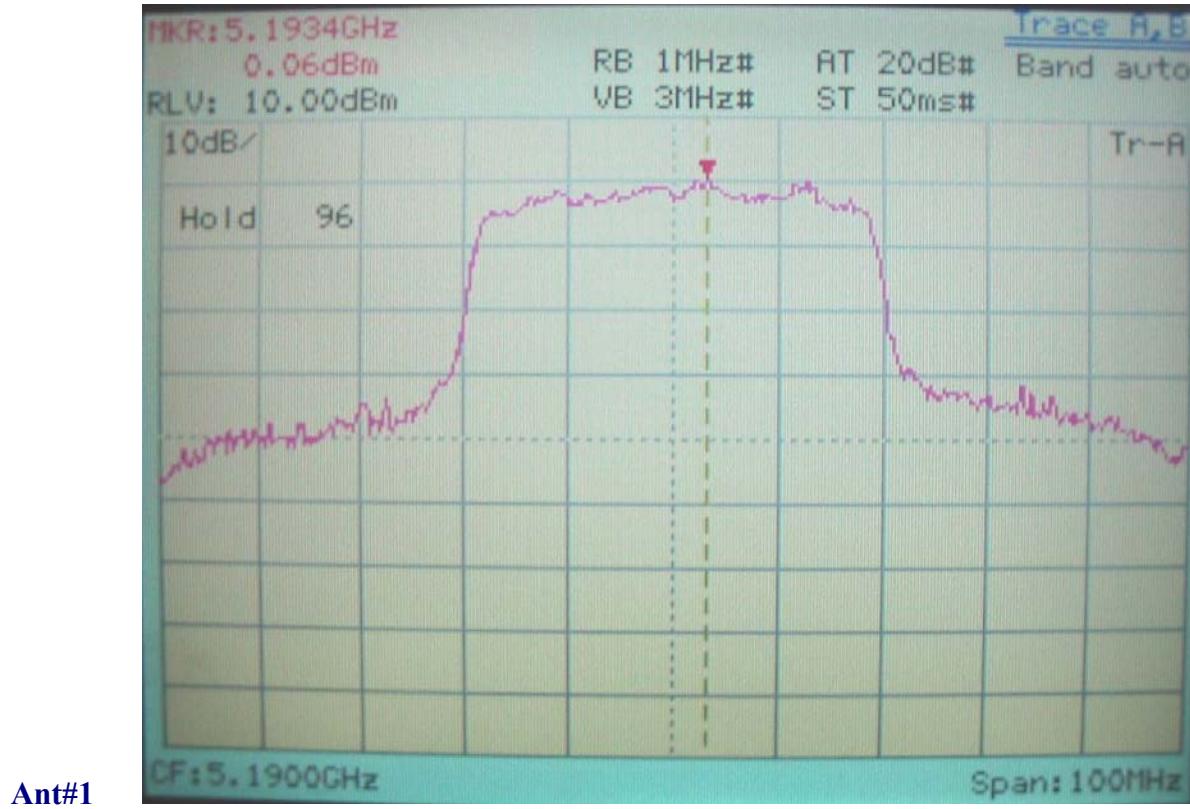
Power Spectral Density for IEEE 802.11a 20M, 5200MHz (Limit: 4.00dBm)

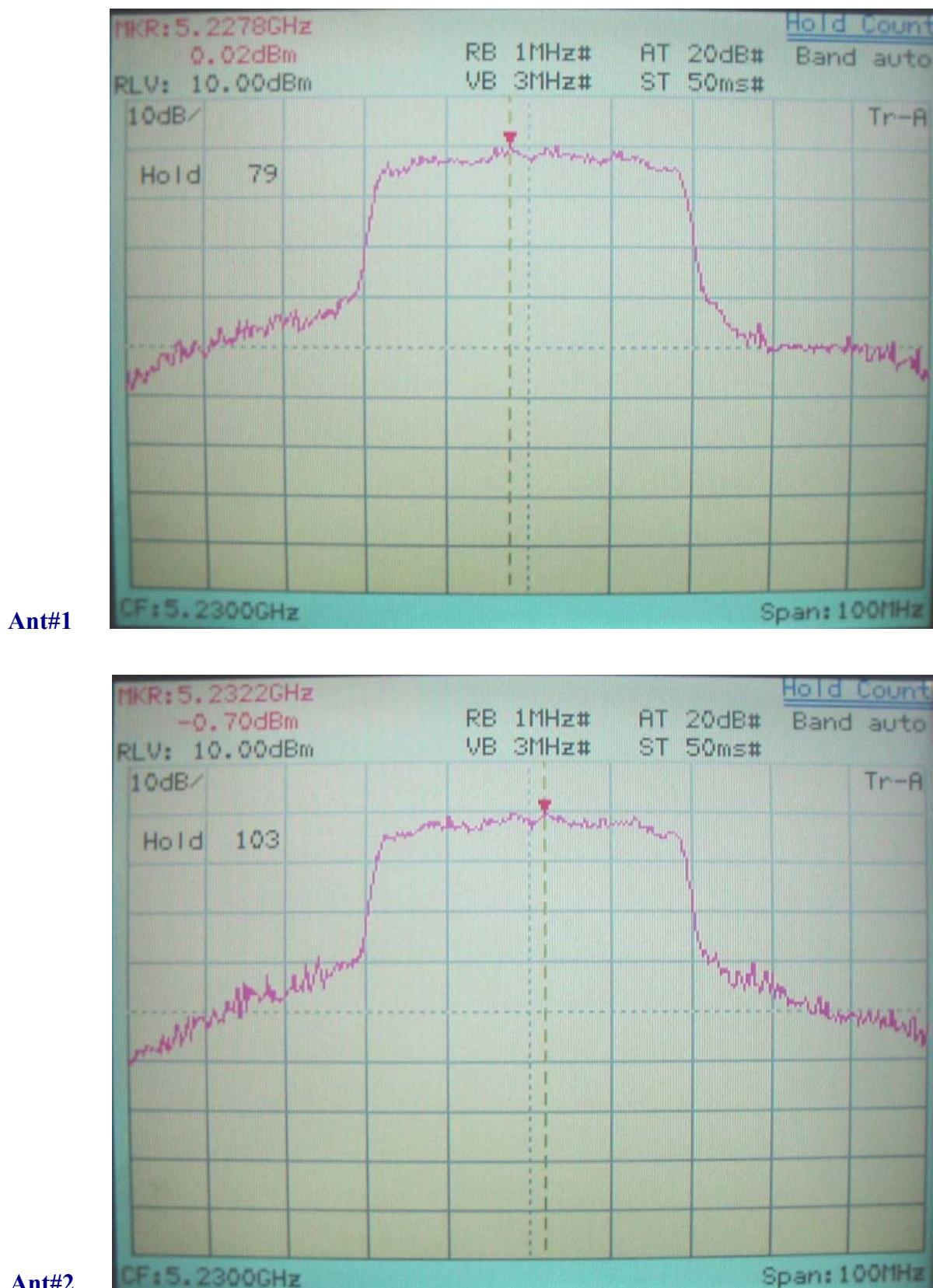
Power Spectral Density for IEEE 802.11a 20M, 5240MHz (Limit: 4.00dBm)

Power Spectral Density for IEEE 802.11a 20M, 5180MHz (Limit: 2.26dBm)

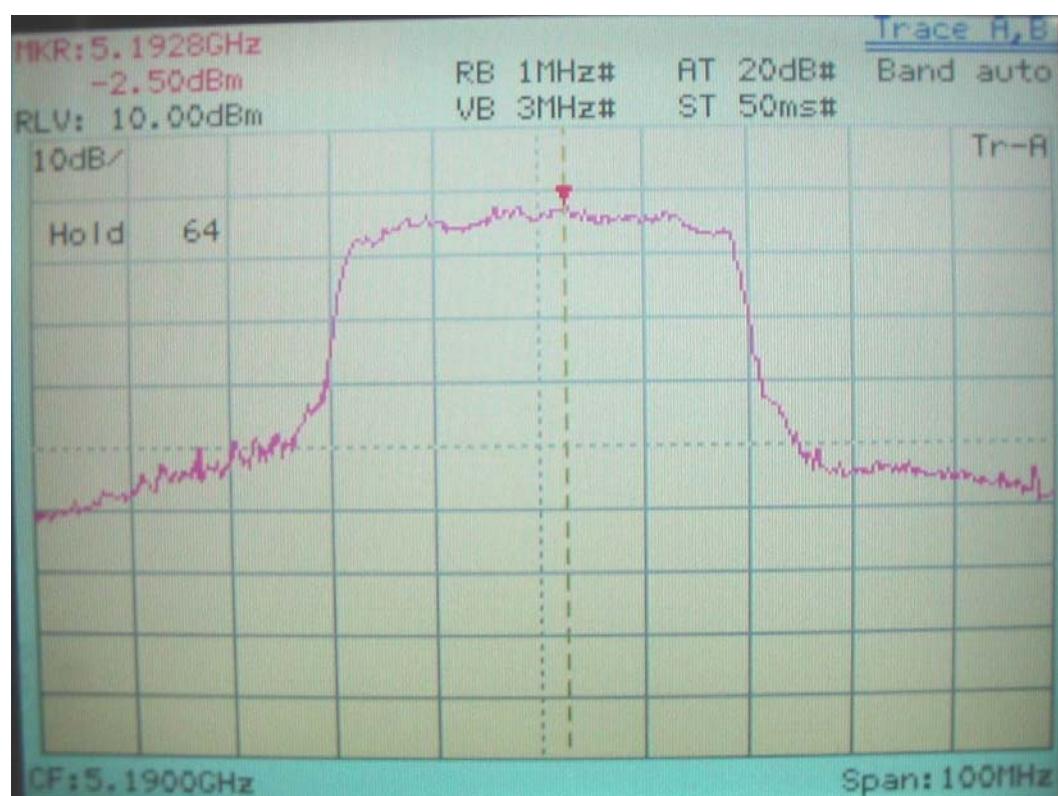
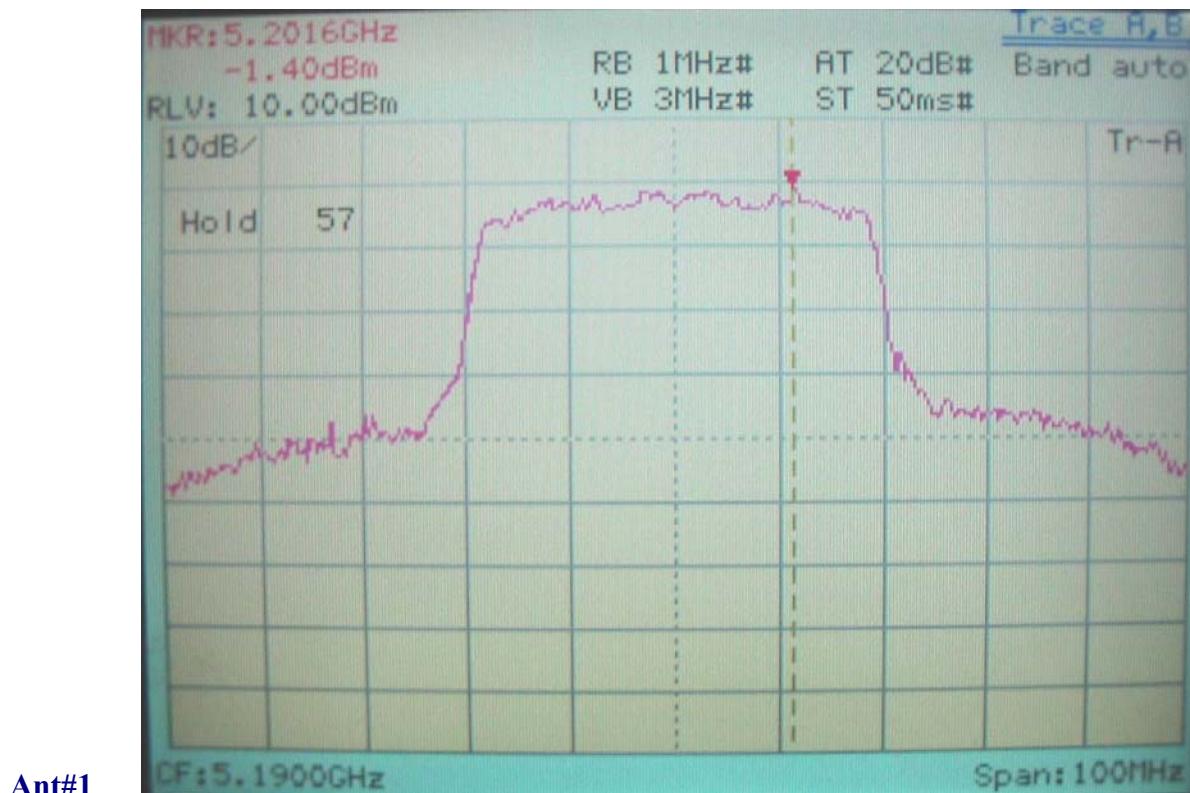
Power Spectral Density for IEEE 802.11a 20M, 5200MHz (Limit: 2.12dBm)

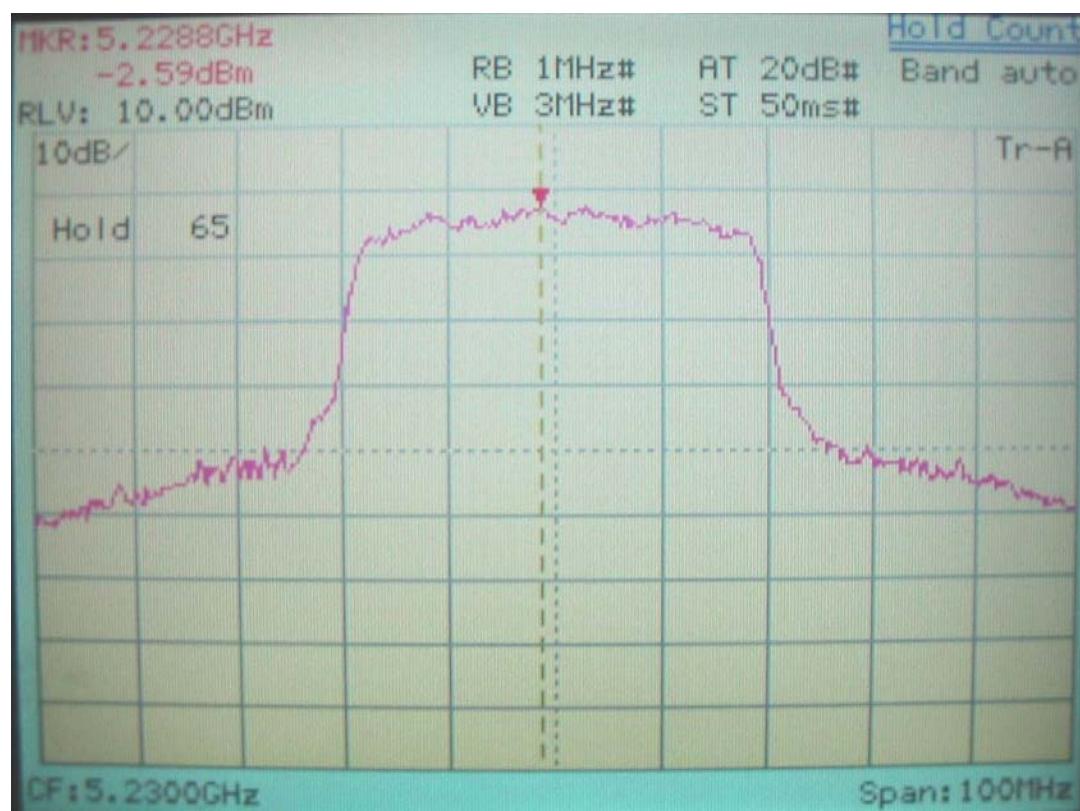
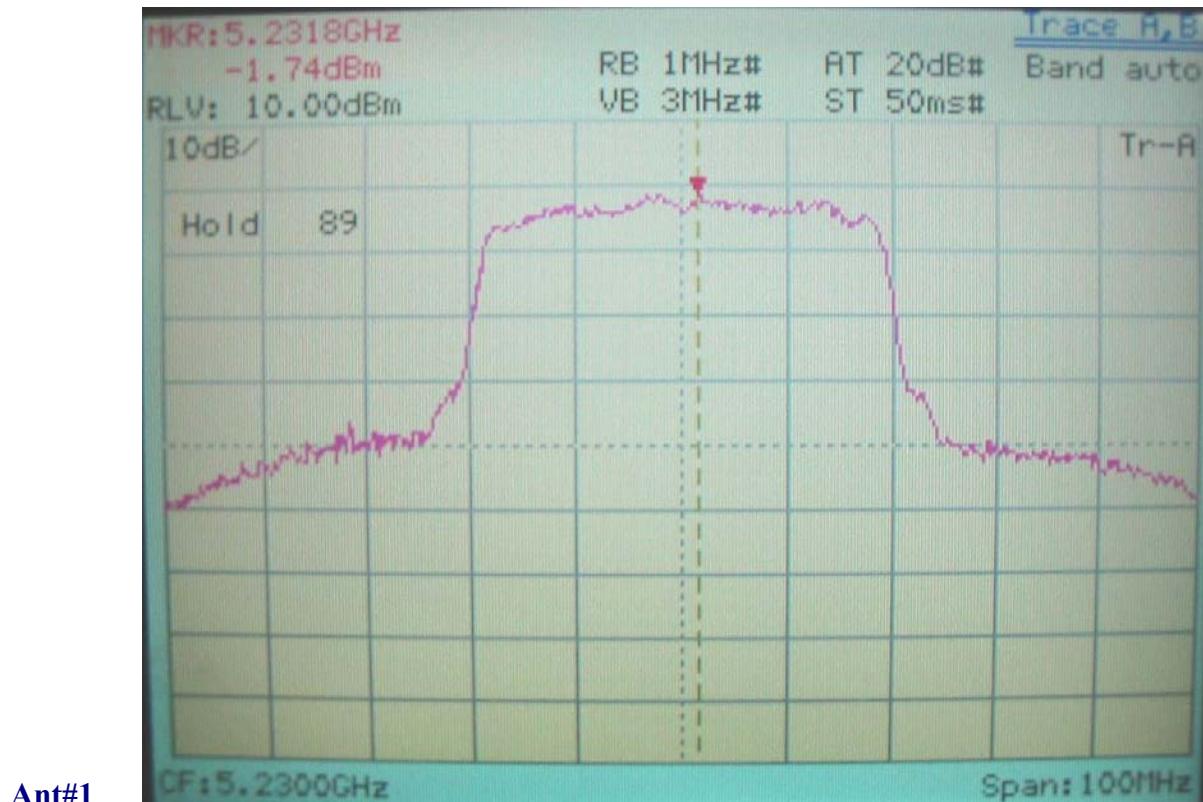
Power Spectral Density for IEEE 802.11a 20M, 5240MHz (Limit: 2.12dBm)

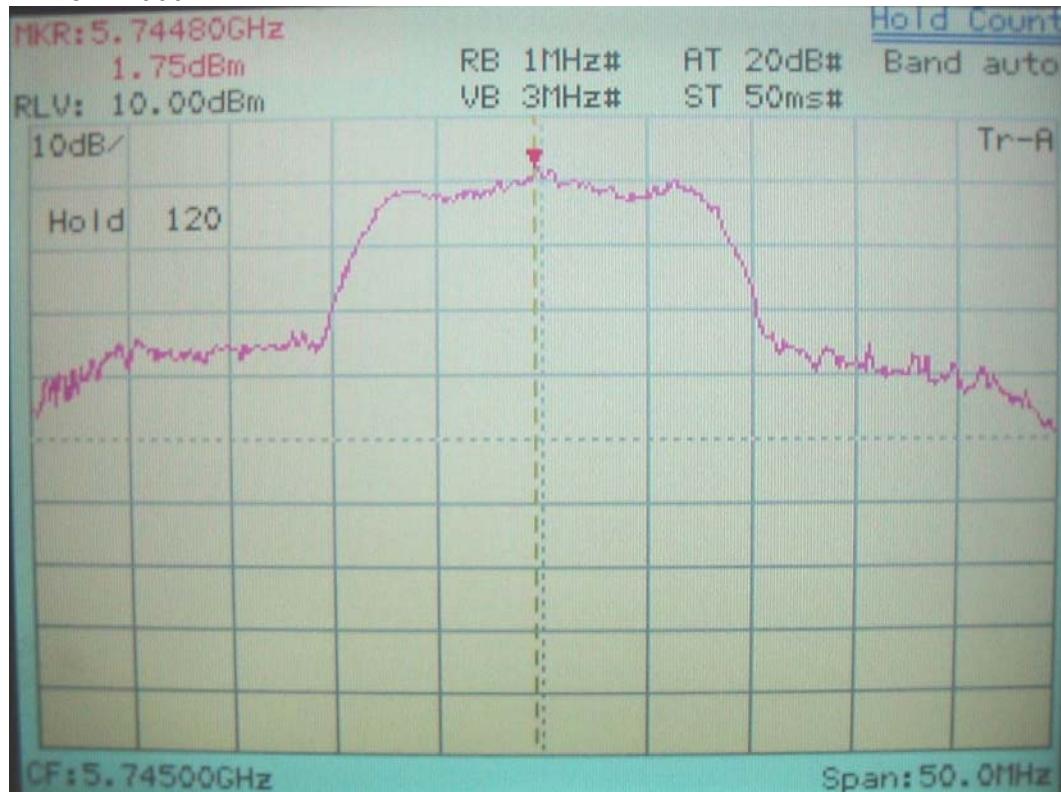
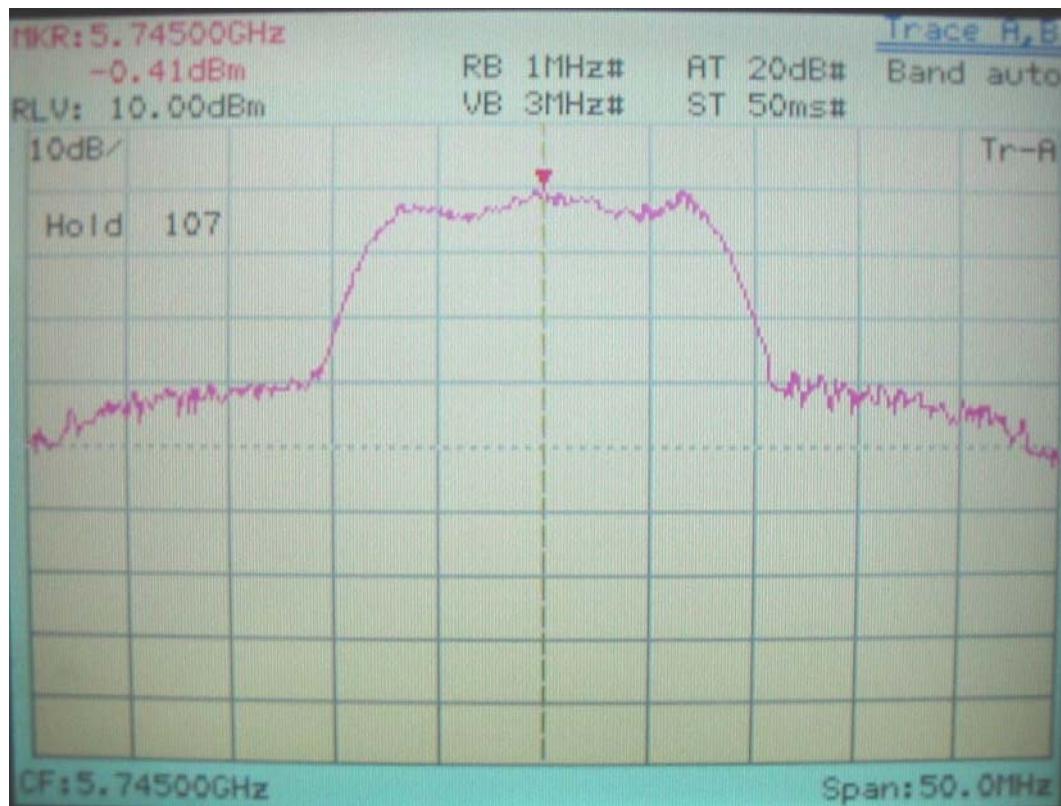
Power Spectral Density for IEEE 802.11a 40M, 5190MHz (Limit: 4.00dBm)

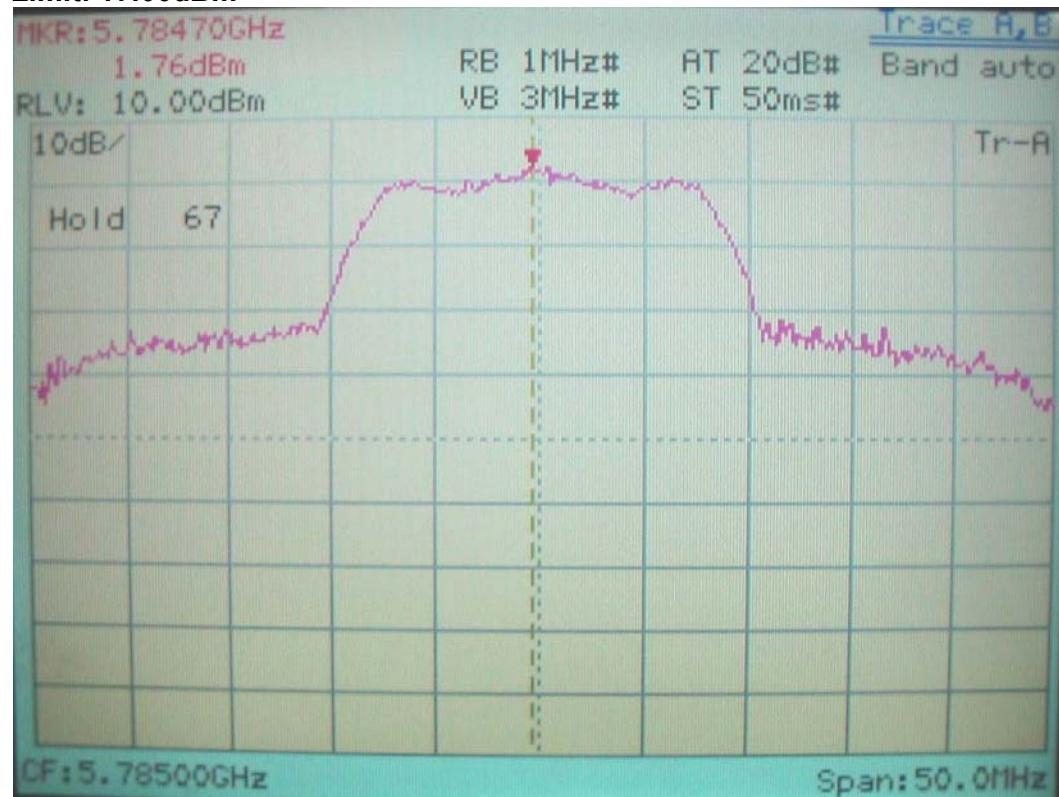
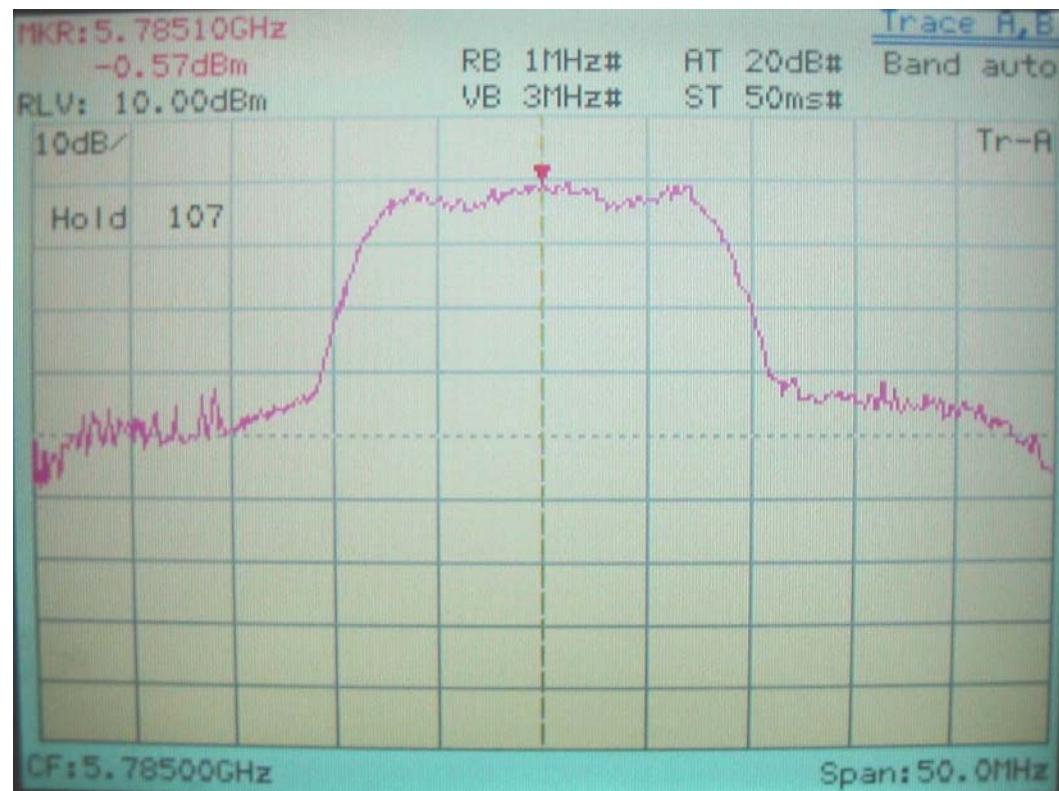
Power Spectral Density for IEEE 802.11a 40M, 5230MHz (Limit: 4.00dBm)

Power Spectral Density for IEEE 802.11a 40M, 5190MHz (Limit: 2.26dBm)

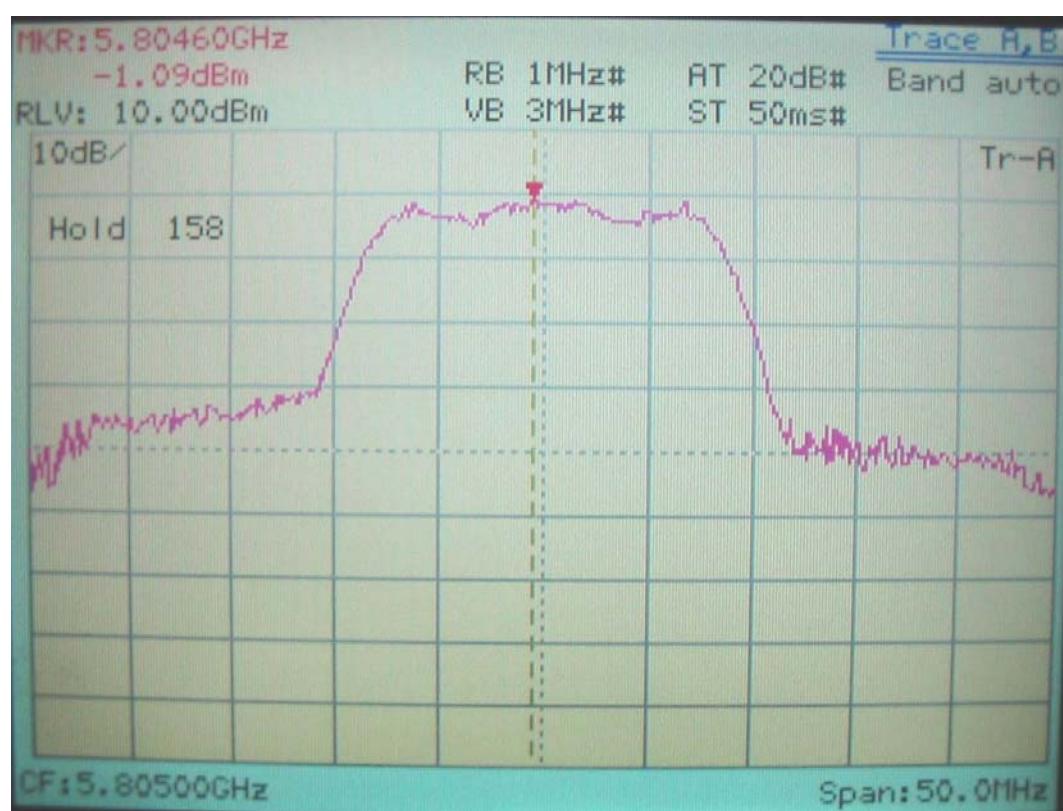


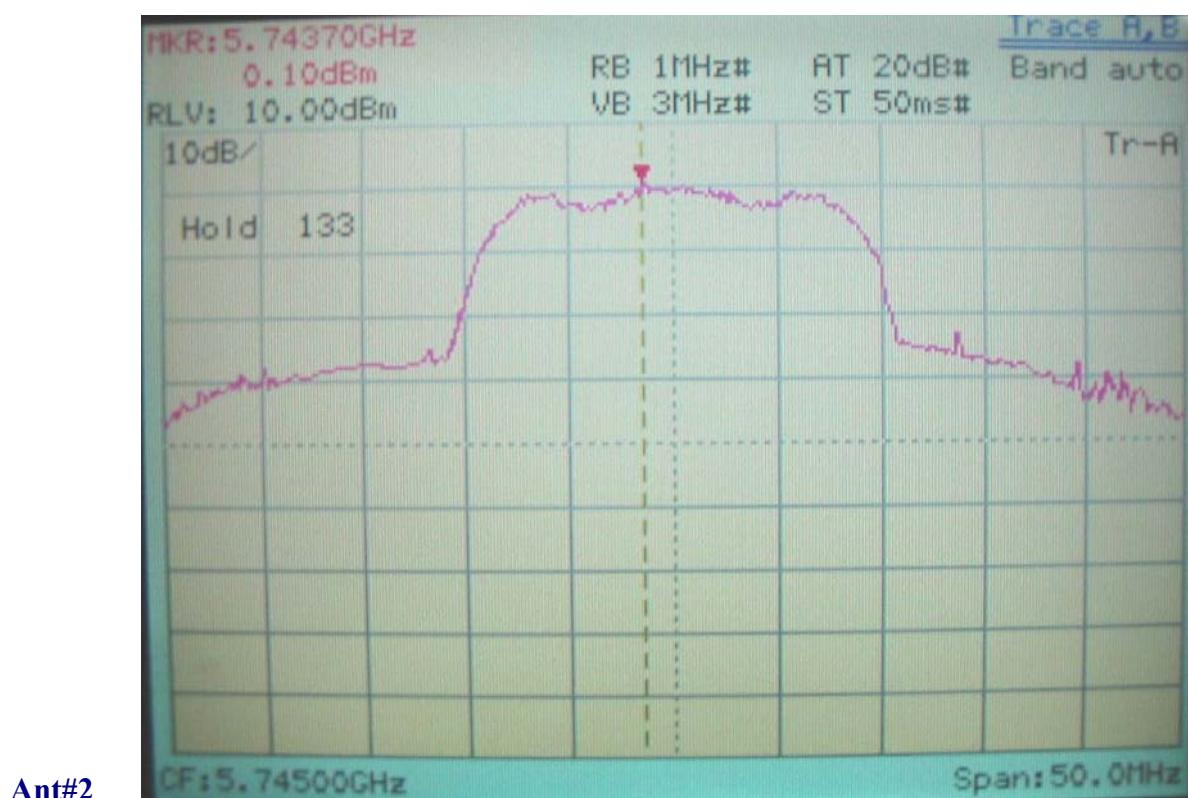
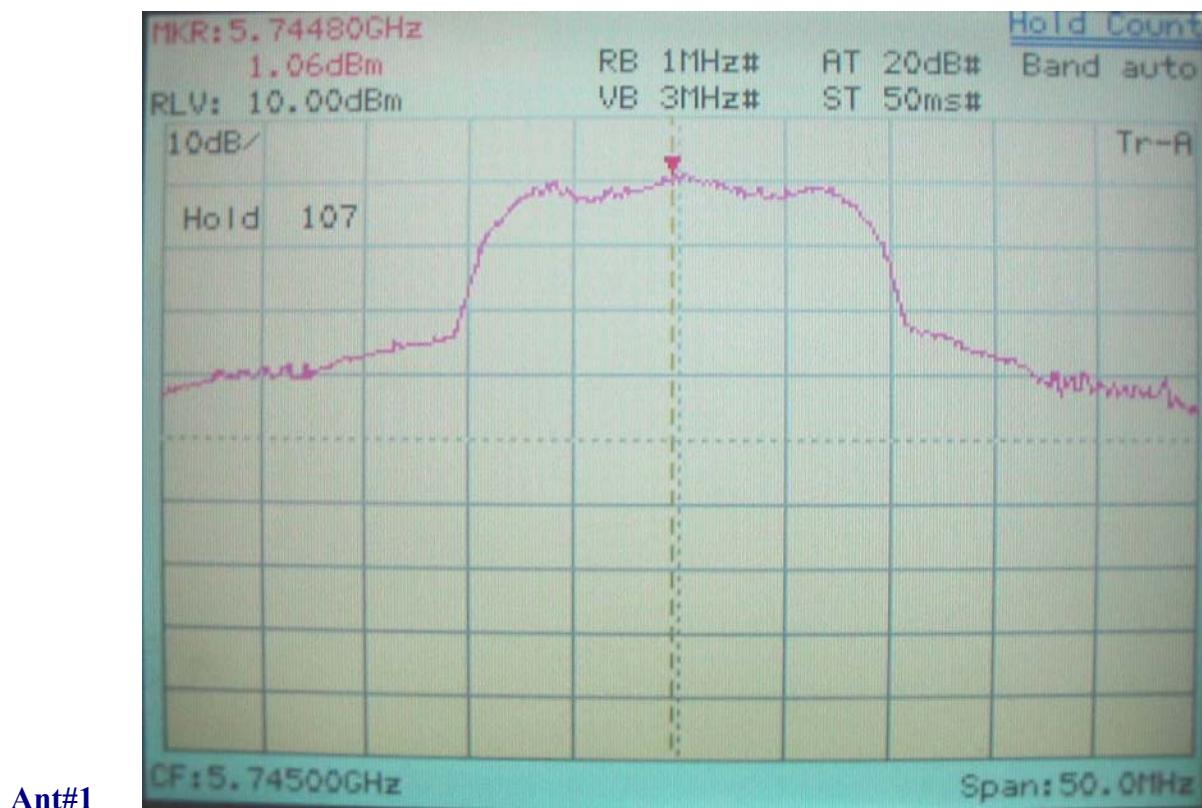
Power Spectral Density for IEEE 802.11a 40M, 5230MHz (Limit: 2.12dBm)

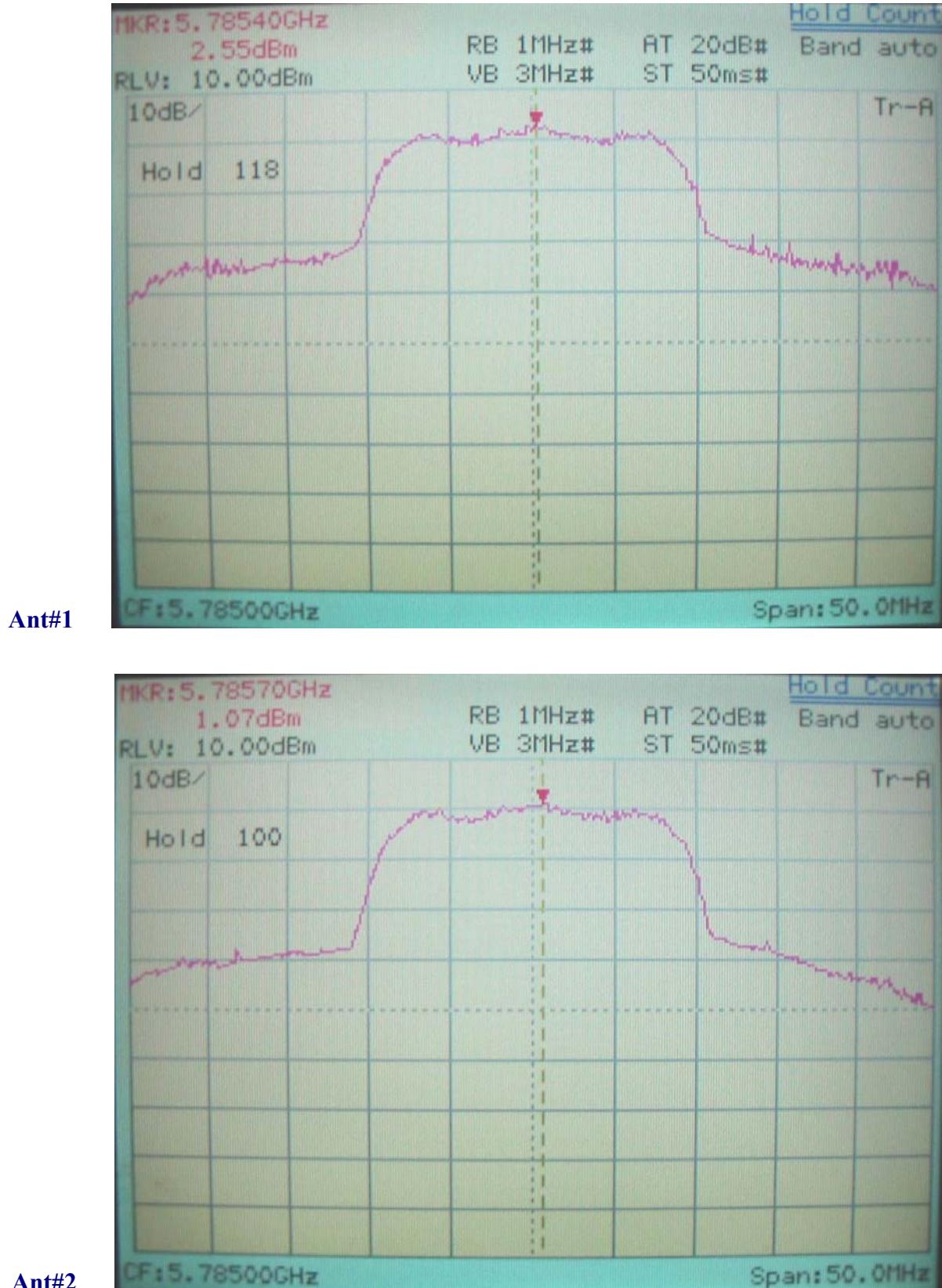
Power Spectral Density for IEEE 802.11a, 5745MHz**Limit: 17.00dBm****Ant#1****Limits: 17.00dBm; 16.71dBm****Ant#2**

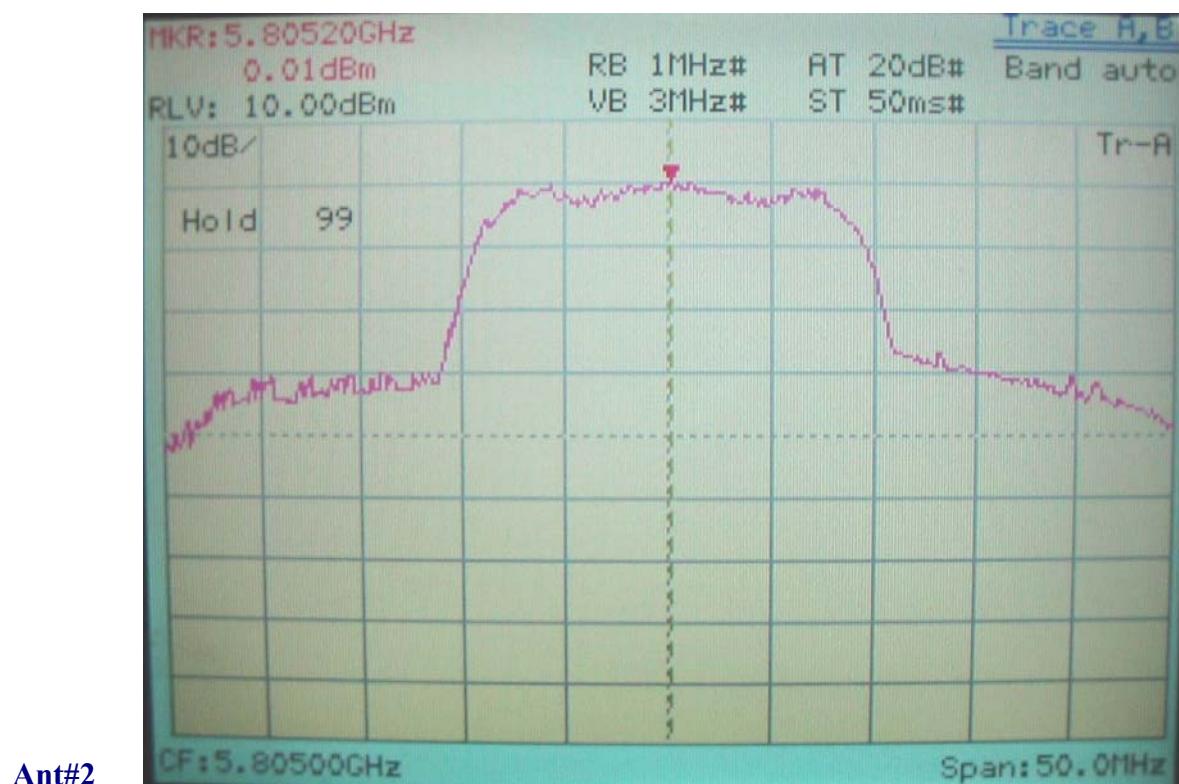
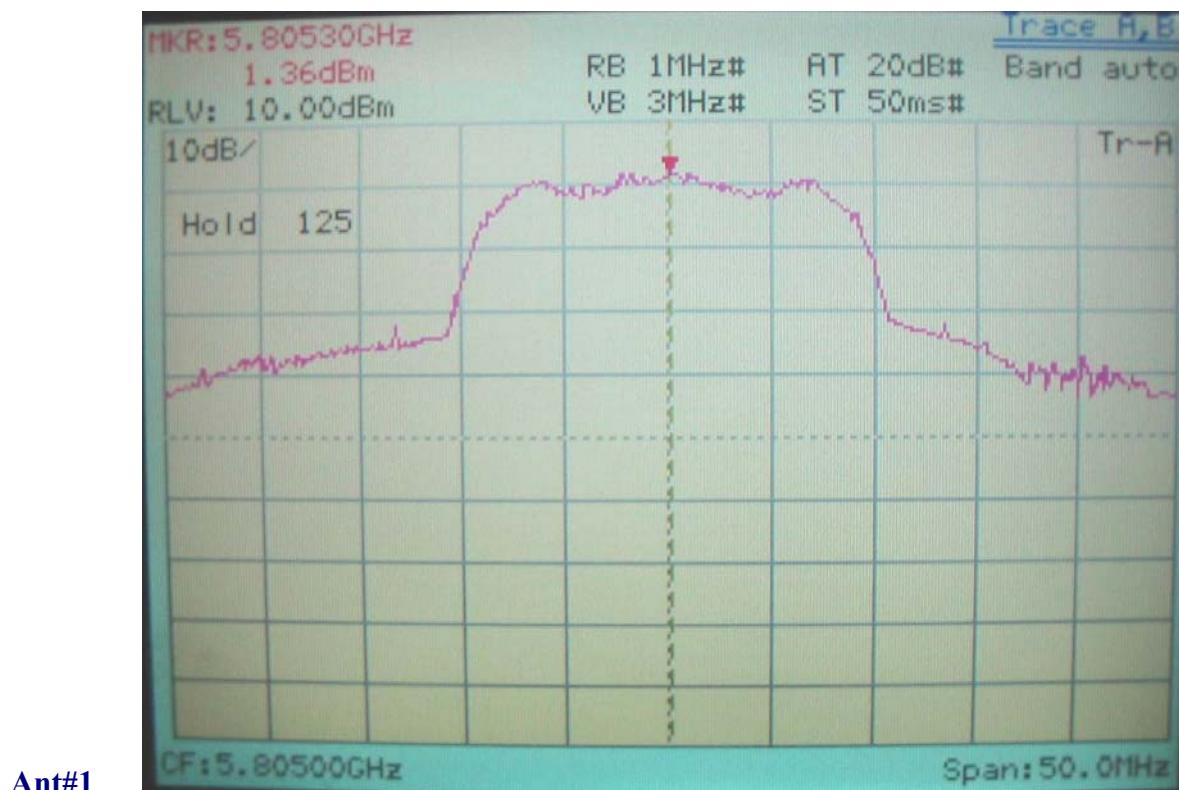
Power Spectral Density for IEEE 802.11a, 5785MHz**Limit: 17.00dBm****Ant#1****Limit: 17.00dBm; 16.71dBm****Ant#2**

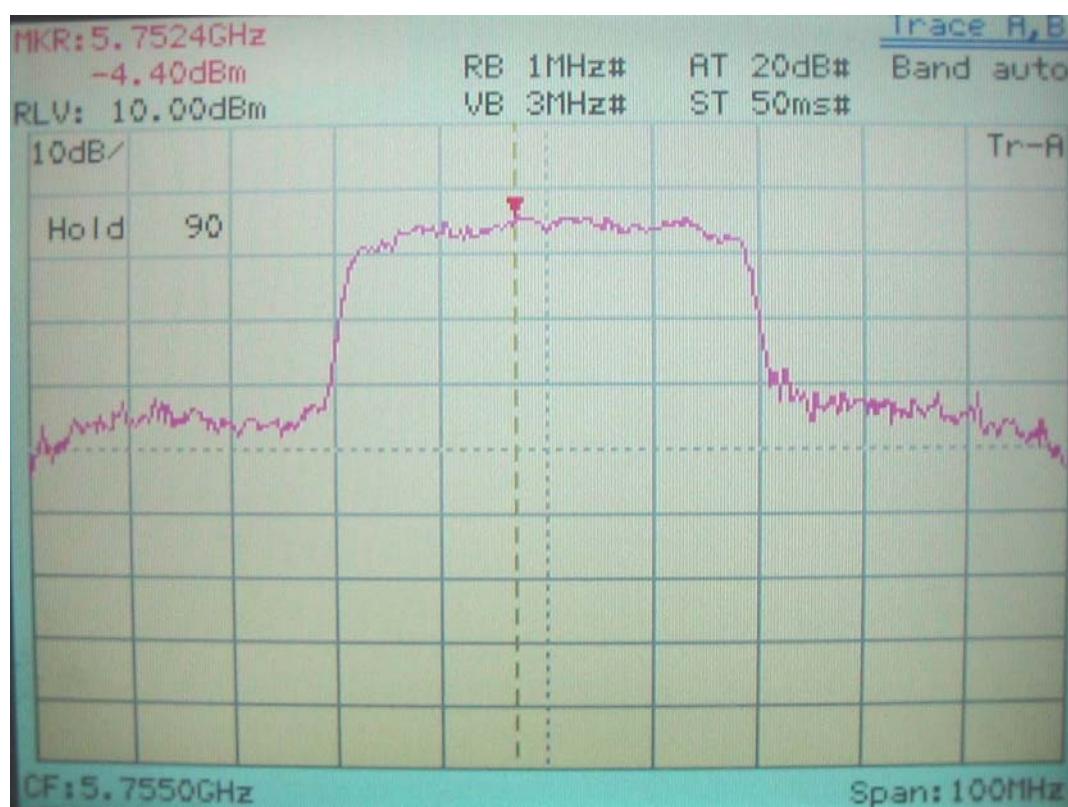
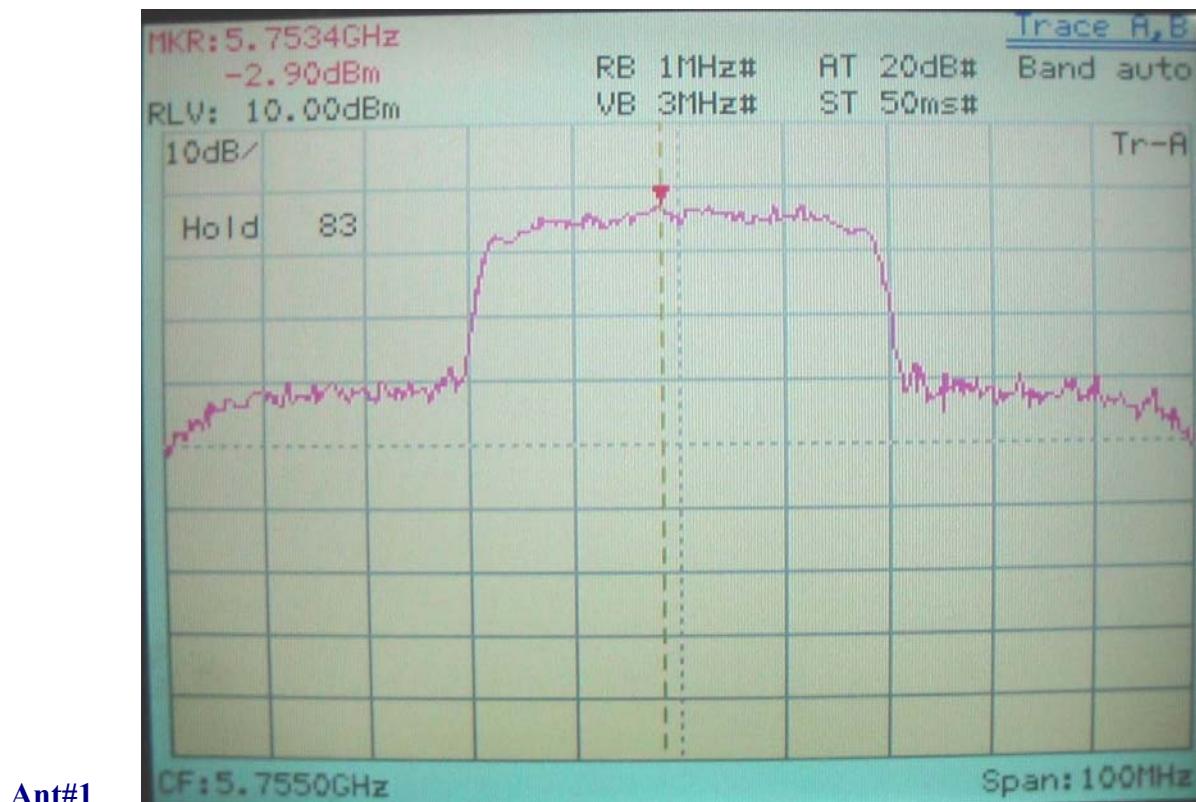
Power Spectral Density for IEEE 802.11a, 5805MHz (Limit: 17.00dBm)



Power Spectral Density for IEEE 802.11a 20M, 5745MHz (Limits: 17.00dBm; 16.71dBm)

Power Spectral Density for IEEE 802.11a 20M, 5785MHz (Limits: 17.00dBm; 16.71dBm)

Power Spectral Density for IEEE 802.11a 20M, 5805MHz (Limit: 17.00dBm)

Power Spectral Density for IEEE 802.11a 40M, 5755MHz (Limits: 17.00dBm; 16.71dBm)

Power Spectral Density for IEEE 802.11a 40M, 5795MHz (Limit: 17.00dBm)