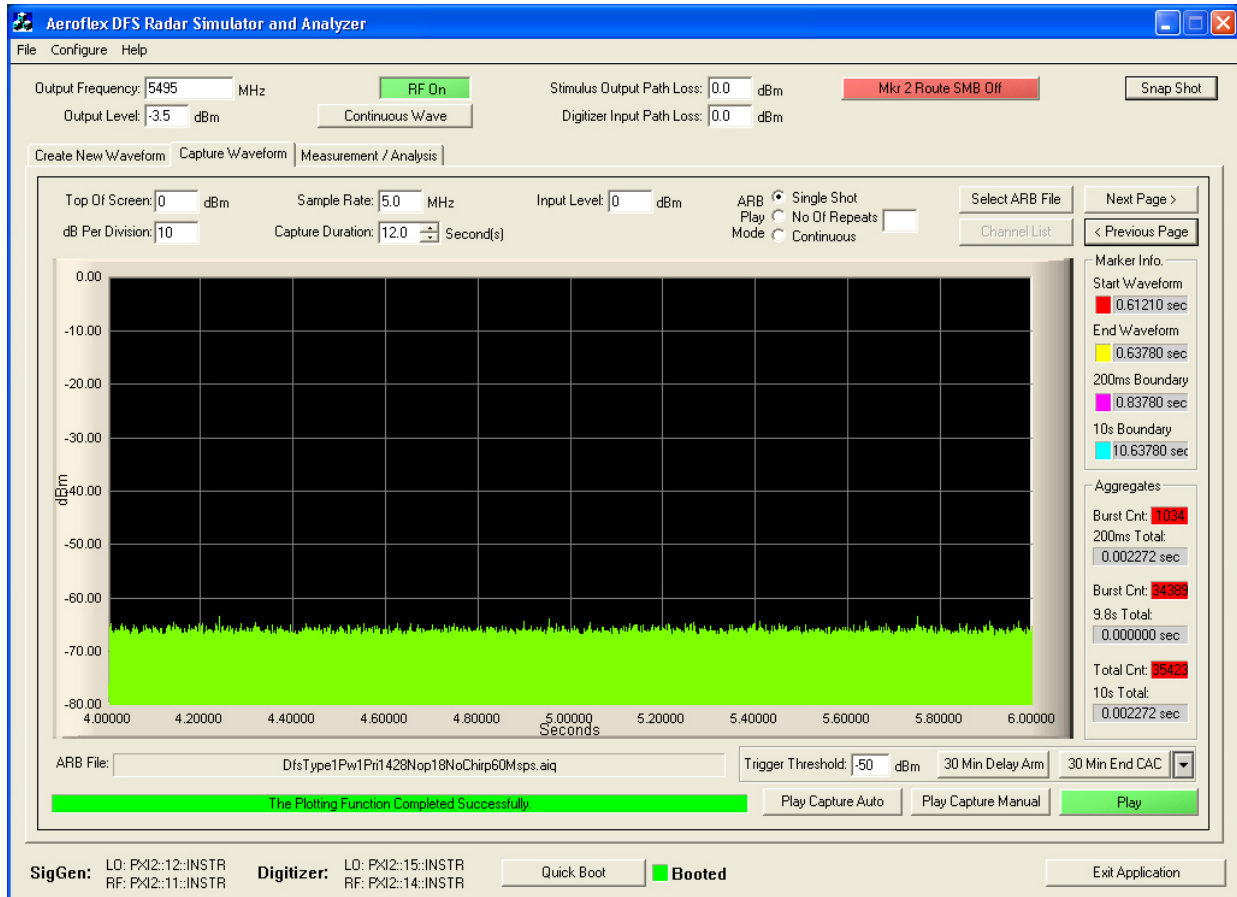




**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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## Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 4 to 6 seconds

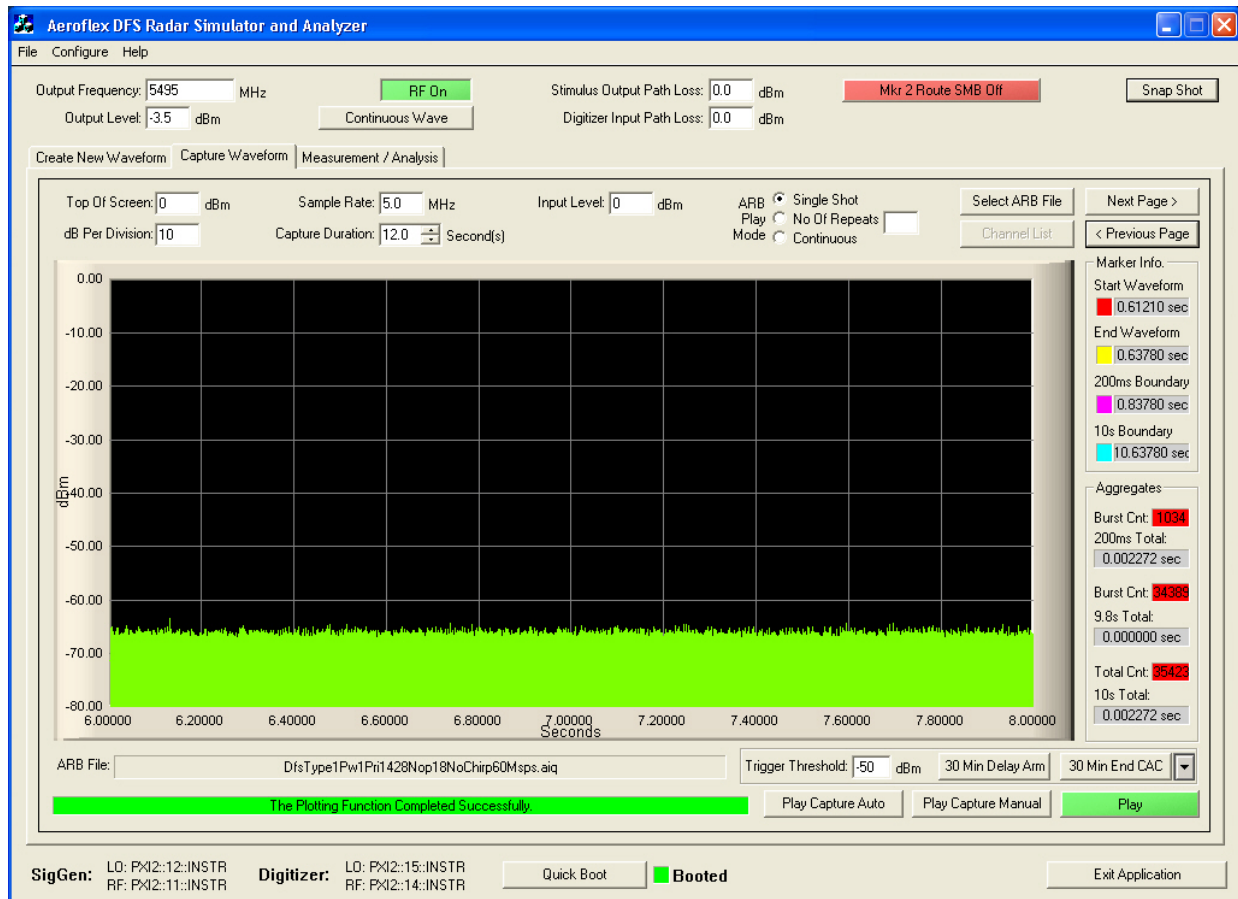


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### Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 6 to 8 seconds

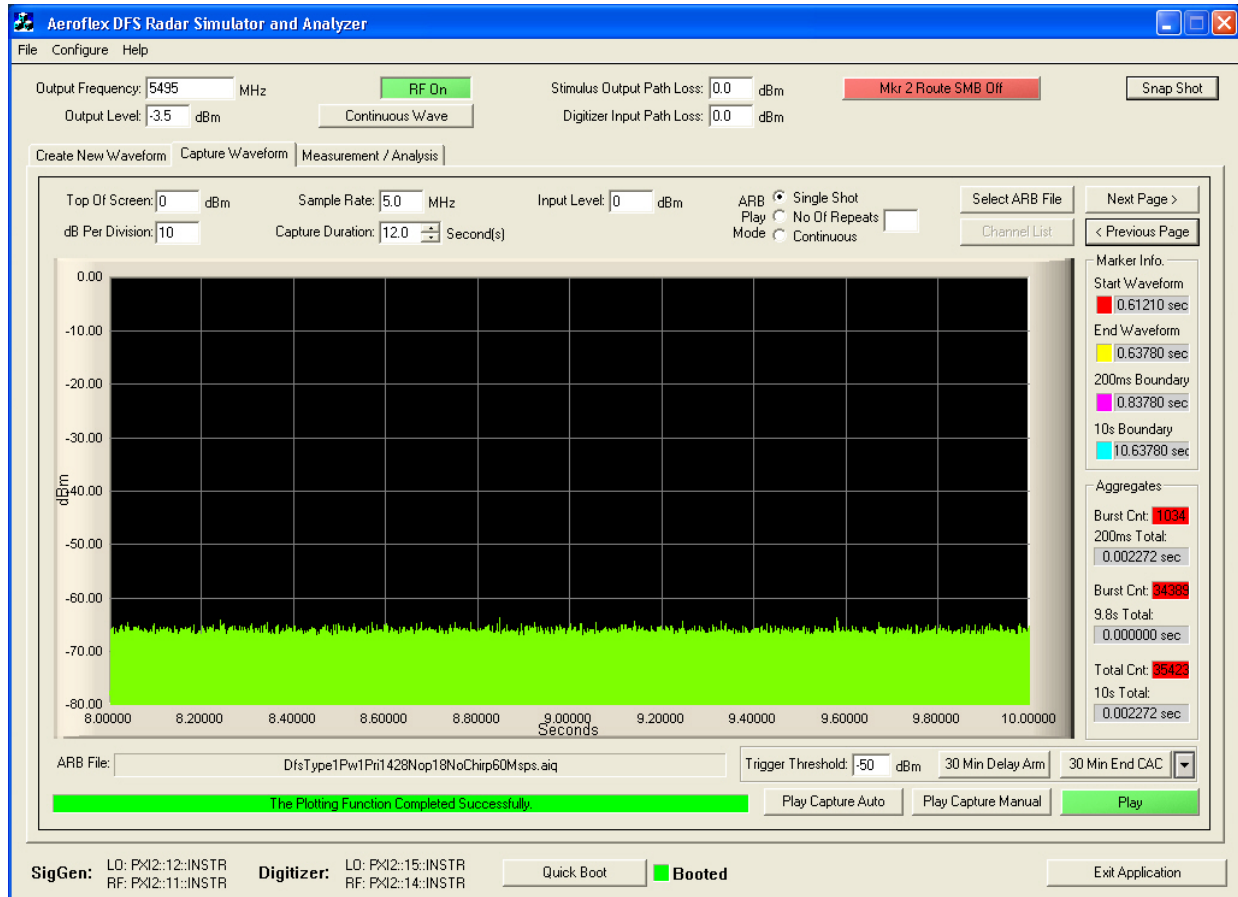


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### Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 8 to 10 seconds

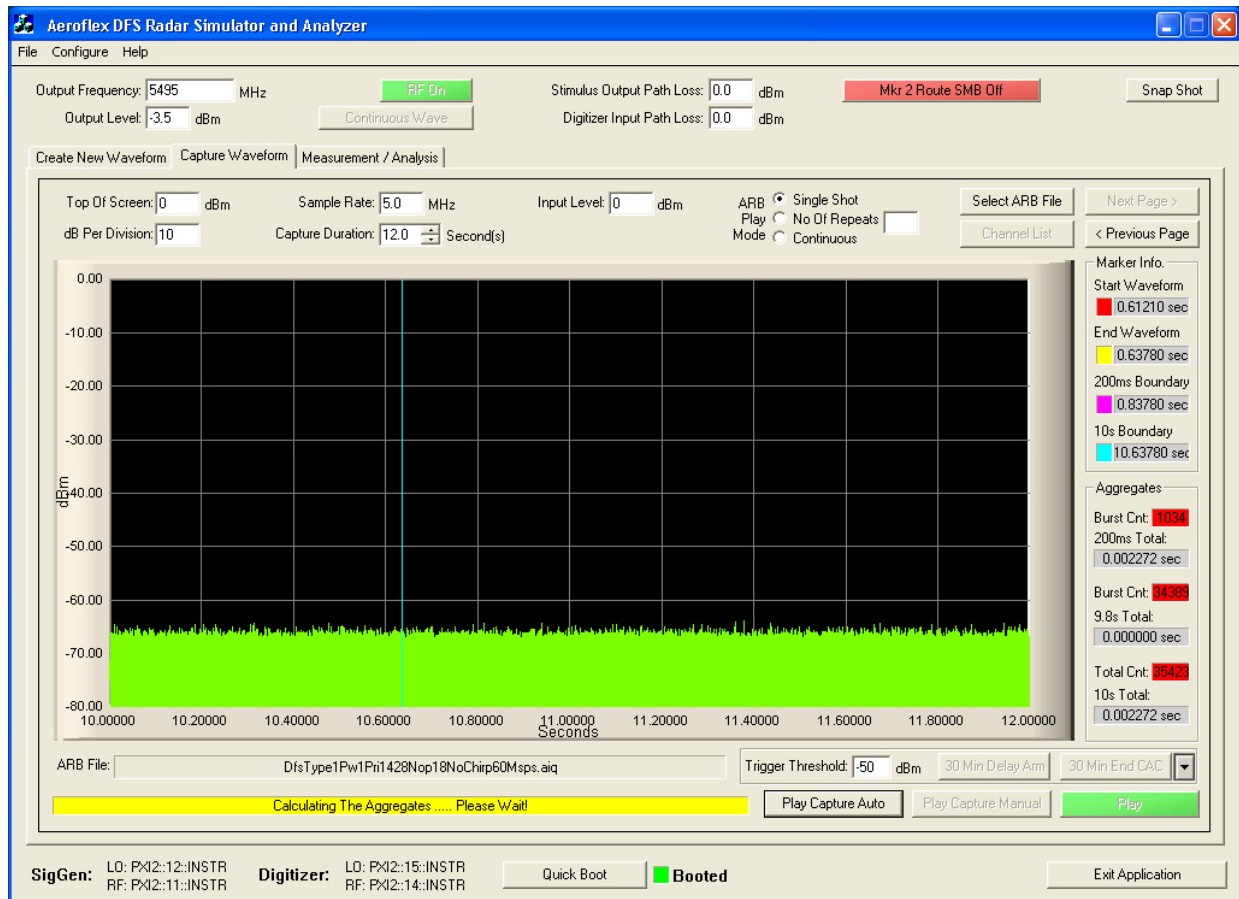


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### Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 10 to 12 seconds



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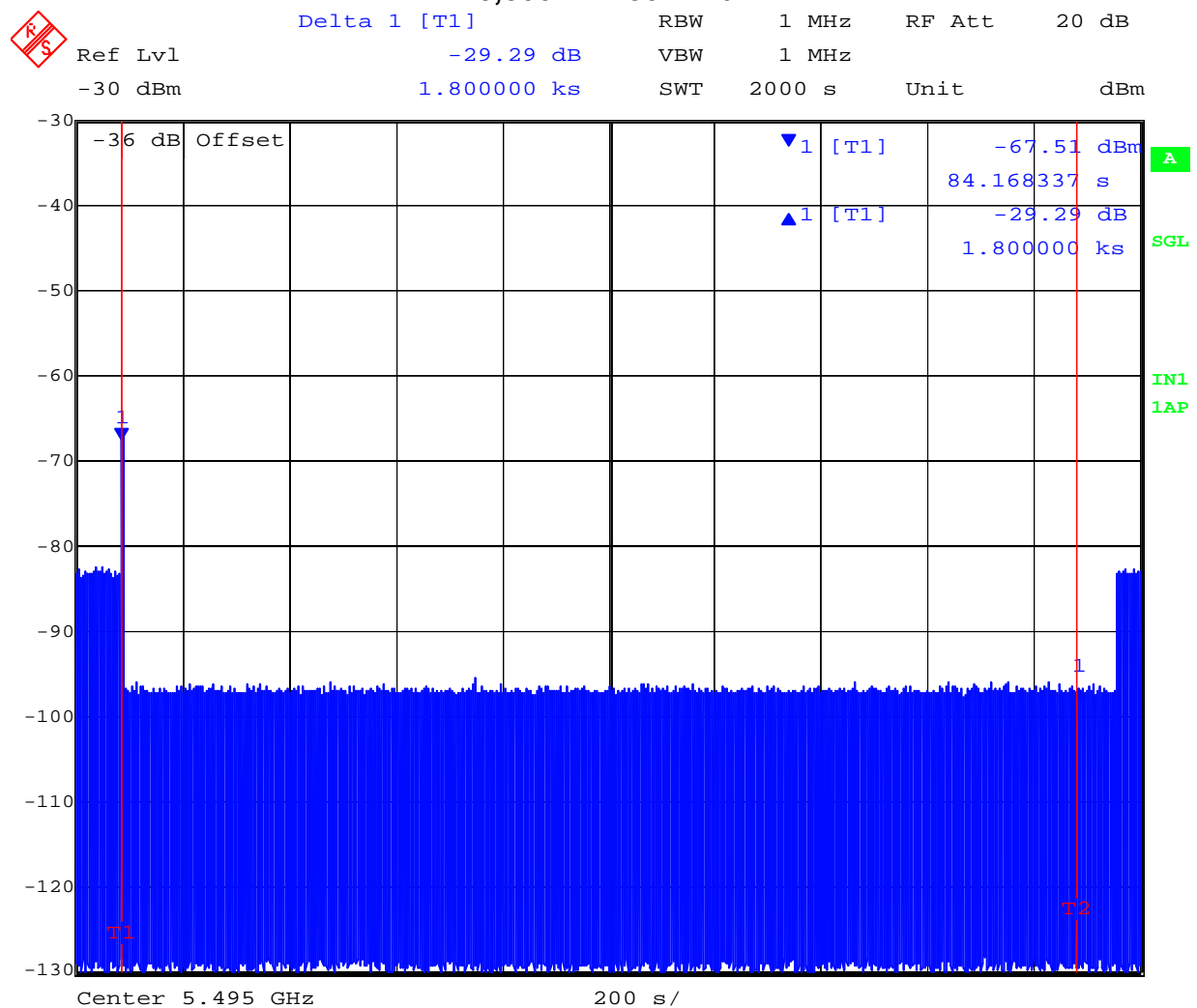


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### 30 Minute Non-Occupancy Period

The EUT is monitored for more than 30 minutes following the channel close/move time to verify no transmissions resume on this Channel.

#### 30 Minute Non-Occupancy Period Type 1 Radar 5,500MHz 802.11a



Date: 21.AUG.2012 11:53:42

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#### Measurement Uncertainty Time/Power

Measurement uncertainty	
- Time	4%
- Power	1.33dB

#### Traceability

##### Test Equipment Used

0072, 0083, 0098, 0116, 0132, 0158, 0313, 0314, 0193, 0223, 0252, 0253, 0251, 0256, 0328, 0329

---

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## **7. PHOTOGRAPHS**

### **7.1. Conducted Test Setup**





## 7.2. Test Setup - Digital Emissions below 1 GHz





### 7.3. Radiated Emissions Test Setup >1 GHz





**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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## 8. TEST EQUIPMENT

Asset #	Instrument	Manufacturer	Part #	Serial #	Calibration Due Date
0070	Power Meter	Hewlett Packard	437B	3125U11552	28 <sup>th</sup> Nov 13
0117	Power Sensor	Hewlett Packard	8487D	3318A00371	15 <sup>th</sup> Nov 13
0223	Power Meter	Hewlett Packard	EPM-442A	US37480256	15 <sup>th</sup> Nov 13
0374	Power Sensor	Hewlett Packard	8485A	3318A19694	29 <sup>th</sup> Nov 13
0376	Power Sensor	Agilent	U2000A	MY51440005	8 <sup>th</sup> Dec 13
0158	Barometer /Thermometer	Control Co.	4196	E2846	8 <sup>th</sup> Dec 13
0193	EMI Receiver	Rhode & Schwartz	ESI 7	838496/007	2 <sup>nd</sup> Dec 13
0287	EMI Receiver	Rhode & Schwartz	ESIB40	100201	16 <sup>th</sup> Nov 13
0338	30 - 3000 MHz Antenna	Sunol	JB3	A052907	8 <sup>th</sup> Nov 13
0335	1-18 GHz Horn Antenna	EMCO	3117	00066580	7 <sup>th</sup> Nov 13
0252	SMA Cable	Megaphase	Sucoflex 104	None	N/A
0293	BNC Cable	Megaphase	1689 1GVT4	15F50B001	N/A
0307	BNC Cable	Megaphase	1689 1GVT4	15F50B002	N/A
0310	2m SMA Cable	Micro-Coax	UFA210A-0-0787-3G03G0	209089-001	N/A
0312	3m SMA Cable	Micro-Coax	UFA210A-1-1181-3G0300	209092-001	N/A
0314	30dB N-Type Attenuator	ARRA	N9444-30	1623	N/A
	EMC Test Software	EMISoft	Vasona	5.0051	N/A
	RF Conducted Test Software	National Instruments	Labview	Version 8.2	N/A
	RF Conducted Test Software	MiCOM Labs ATS		Version 1.5	N/A

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## **APPENDIX**

### **A. SUPPORTING INFORMATION**

#### **A.1. CONDUCTED TEST PLOTS**

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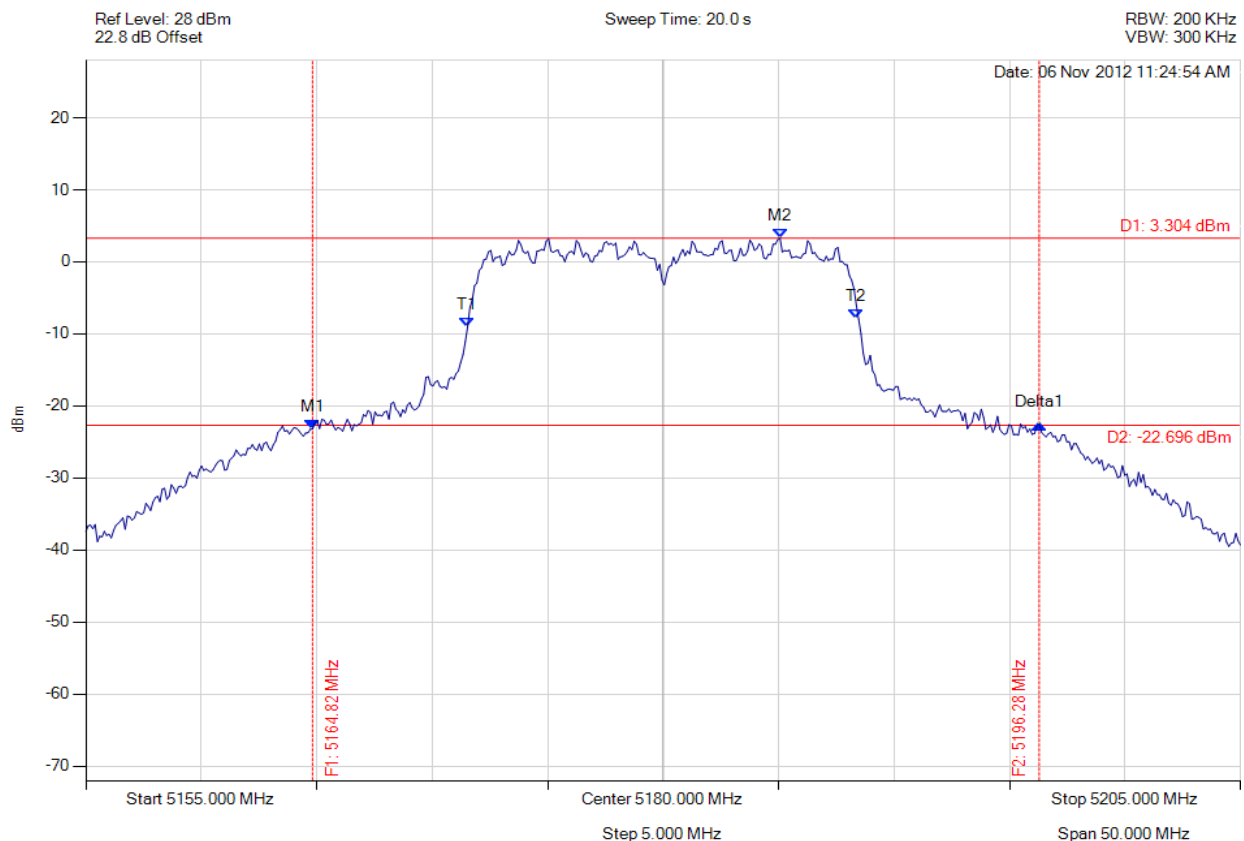
**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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### A.1.1. 26 dB & 99% Bandwidth



#### 26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5164.820 MHz : -23.189 dBm M2 : 5185.060 MHz : 3.304 dBm Delta1 : 31.463 MHz : 0.651 dB T1 : 5171.533 MHz : -9.047 dBm T2 : 5188.367 MHz : -7.942 dBm OBW : 16.934 MHz	Measured 26 dB Bandwidth: 31.463 MHz Measured 99% Bandwidth: 16.934 MHz

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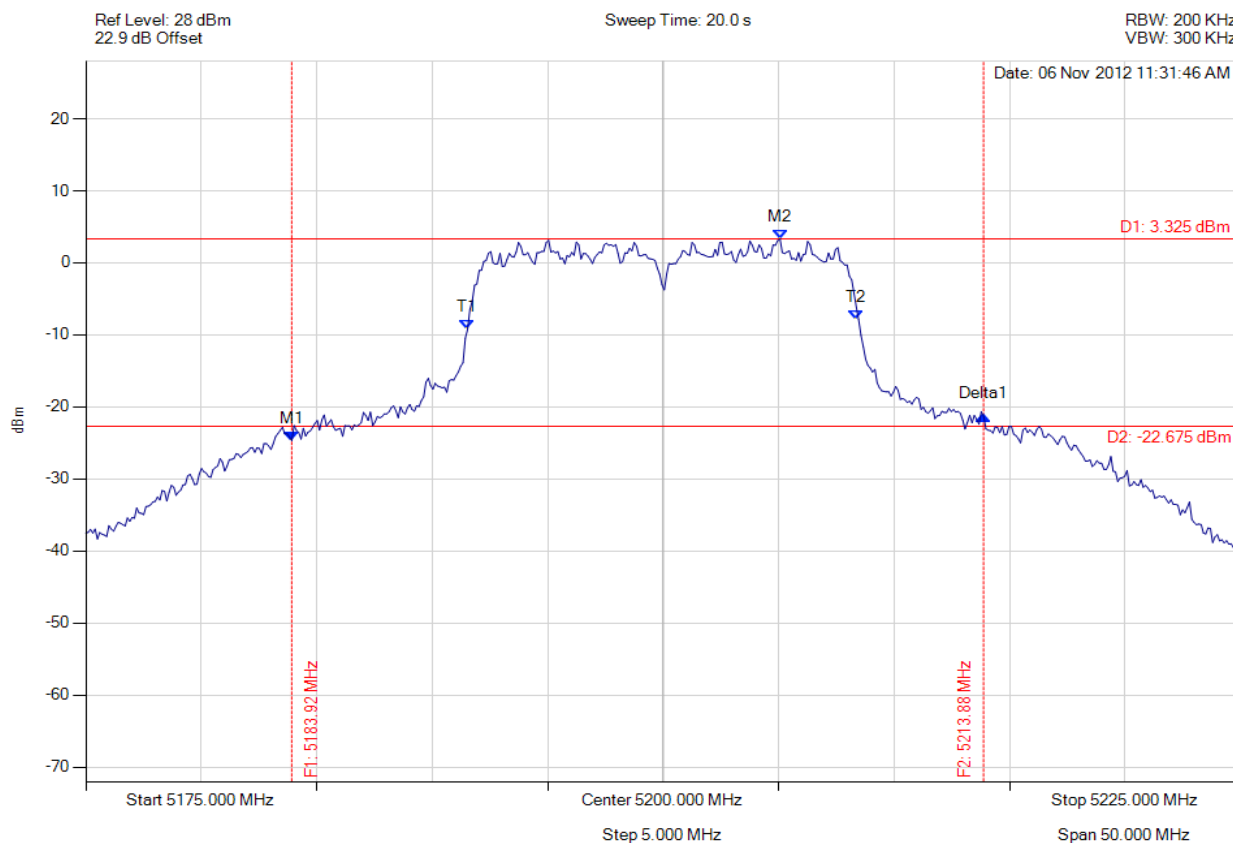


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## 26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5183.918 MHz : -24.692 dBm M2 : 5205.060 MHz : 3.325 dBm Delta1 : 29.960 MHz : 3.415 dB T1 : 5191.533 MHz : -9.232 dBm T2 : 5208.367 MHz : -7.873 dBm OBW : 16.934 MHz	Measured 26 dB Bandwidth: 29.960 MHz Measured 99% Bandwidth: 16.934 MHz

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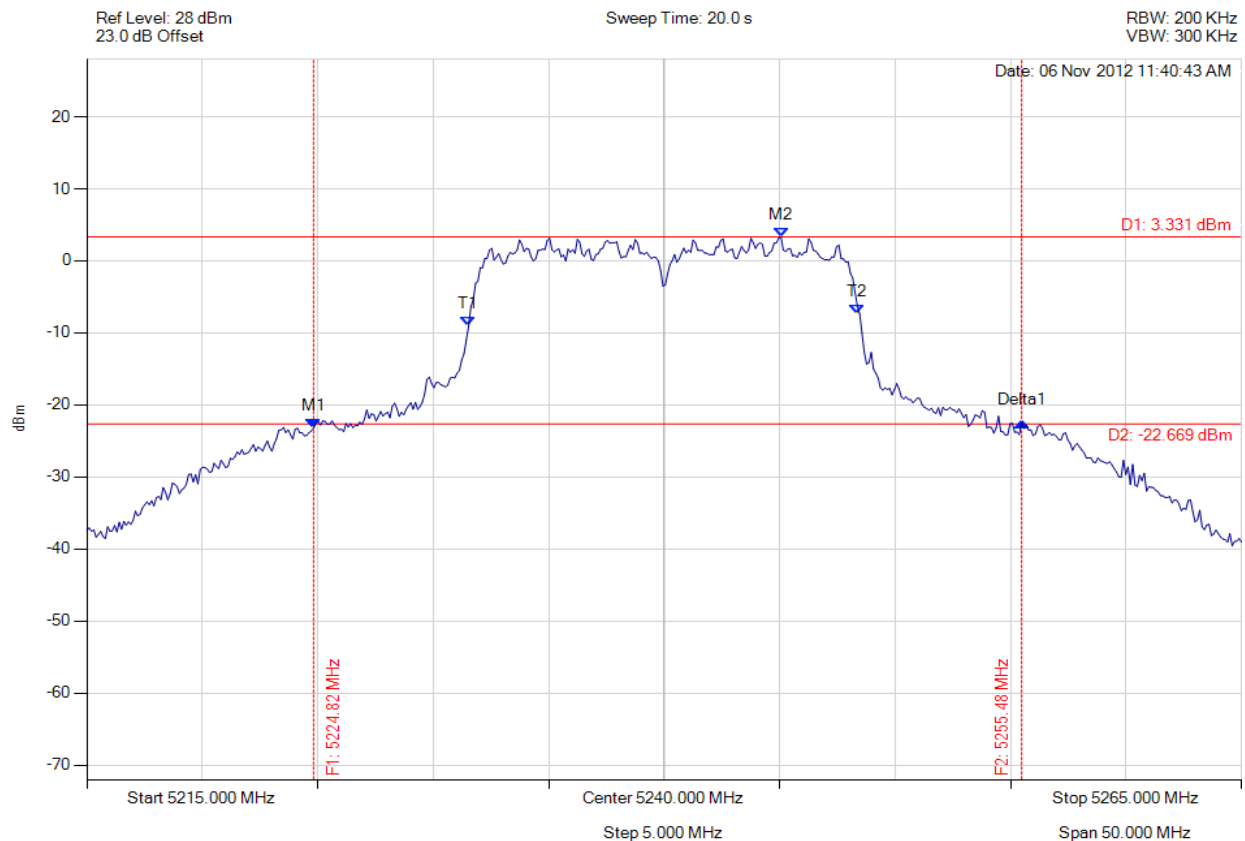


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## 26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5224.820 MHz : -23.238 dBm M2 : 5245.060 MHz : 3.331 dBm Delta1 : 30.661 MHz : 0.846 dB T1 : 5231.533 MHz : -9.091 dBm T2 : 5248.367 MHz : -7.306 dBm OBW : 16.934 MHz	Measured 26 dB Bandwidth: 30.661 MHz Measured 99% Bandwidth: 16.934 MHz

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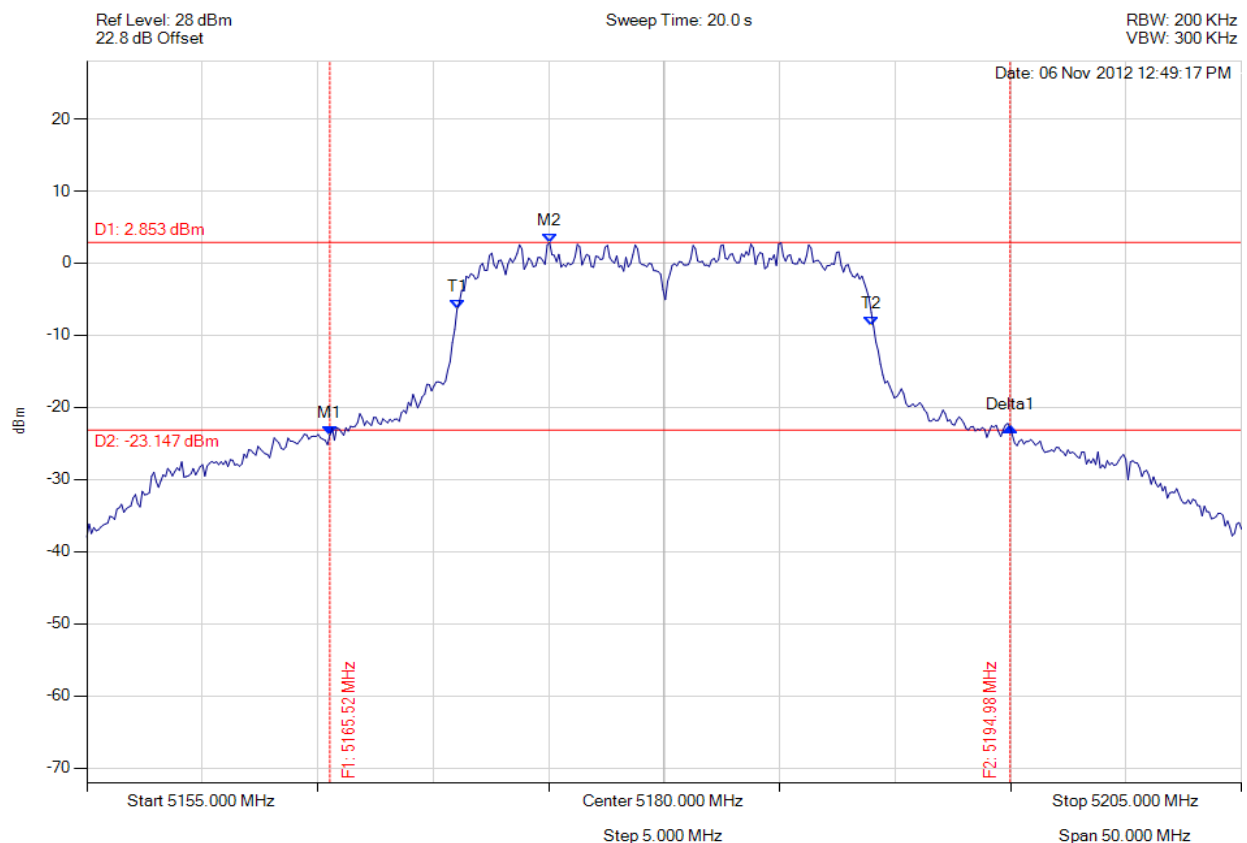


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### 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5165.521 MHz : -23.901 dBm M2 : 5175.040 MHz : 2.853 dBm Delta1 : 29.459 MHz : 1.182 dB T1 : 5171.032 MHz : -6.380 dBm T2 : 5188.968 MHz : -8.772 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 29.459 MHz Measured 99% Bandwidth: 18.036 MHz

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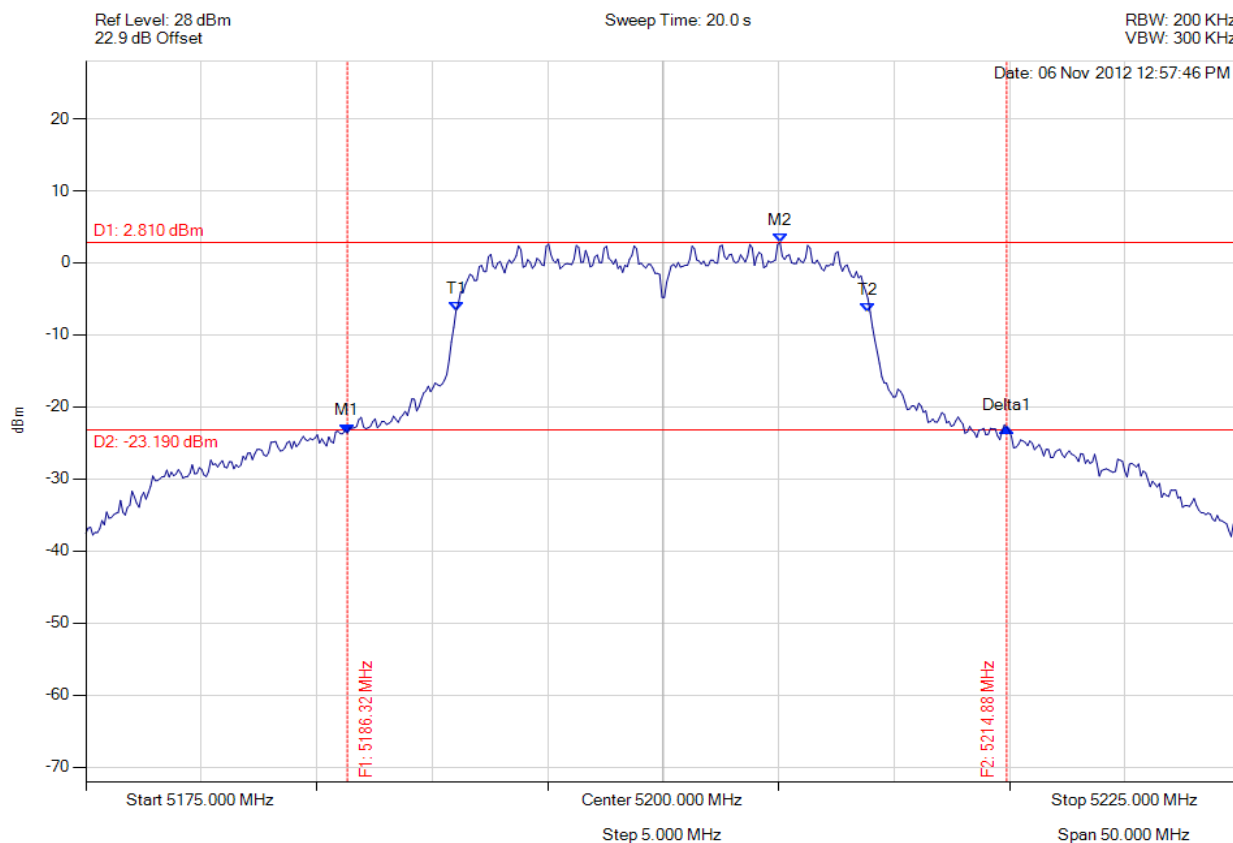


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## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5186.323 MHz : -23.637 dBm M2 : 5205.060 MHz : 2.810 dBm Delta1 : 28.557 MHz : 0.801 dB T1 : 5191.032 MHz : -6.635 dBm T2 : 5208.868 MHz : -6.905 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 28.557 MHz Measured 99% Bandwidth: 17.936 MHz

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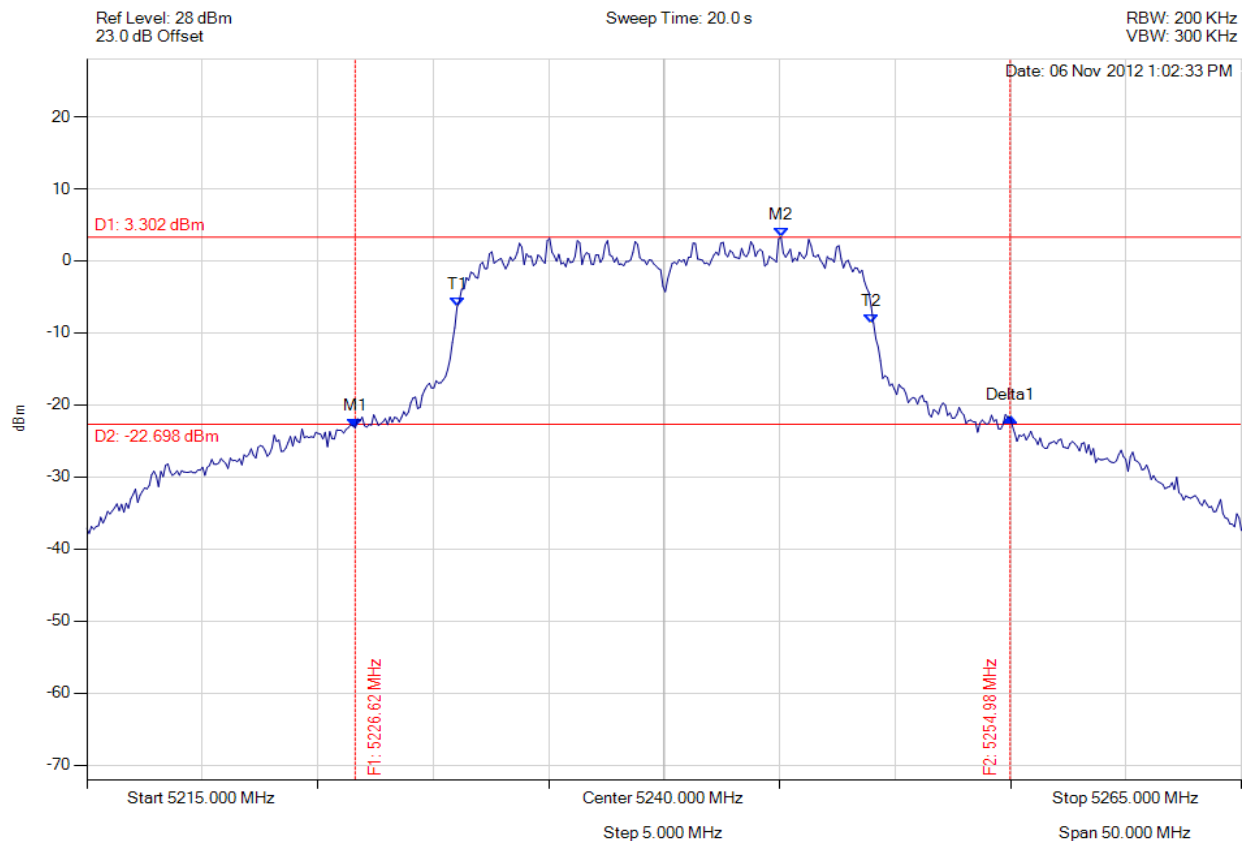


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## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5226.623 MHz : -23.242 dBm M2 : 5245.060 MHz : 3.302 dBm Delta1 : 28.357 MHz : 1.525 dB T1 : 5231.032 MHz : -6.411 dBm T2 : 5248.968 MHz : -8.664 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 28.357 MHz Measured 99% Bandwidth: 18.036 MHz

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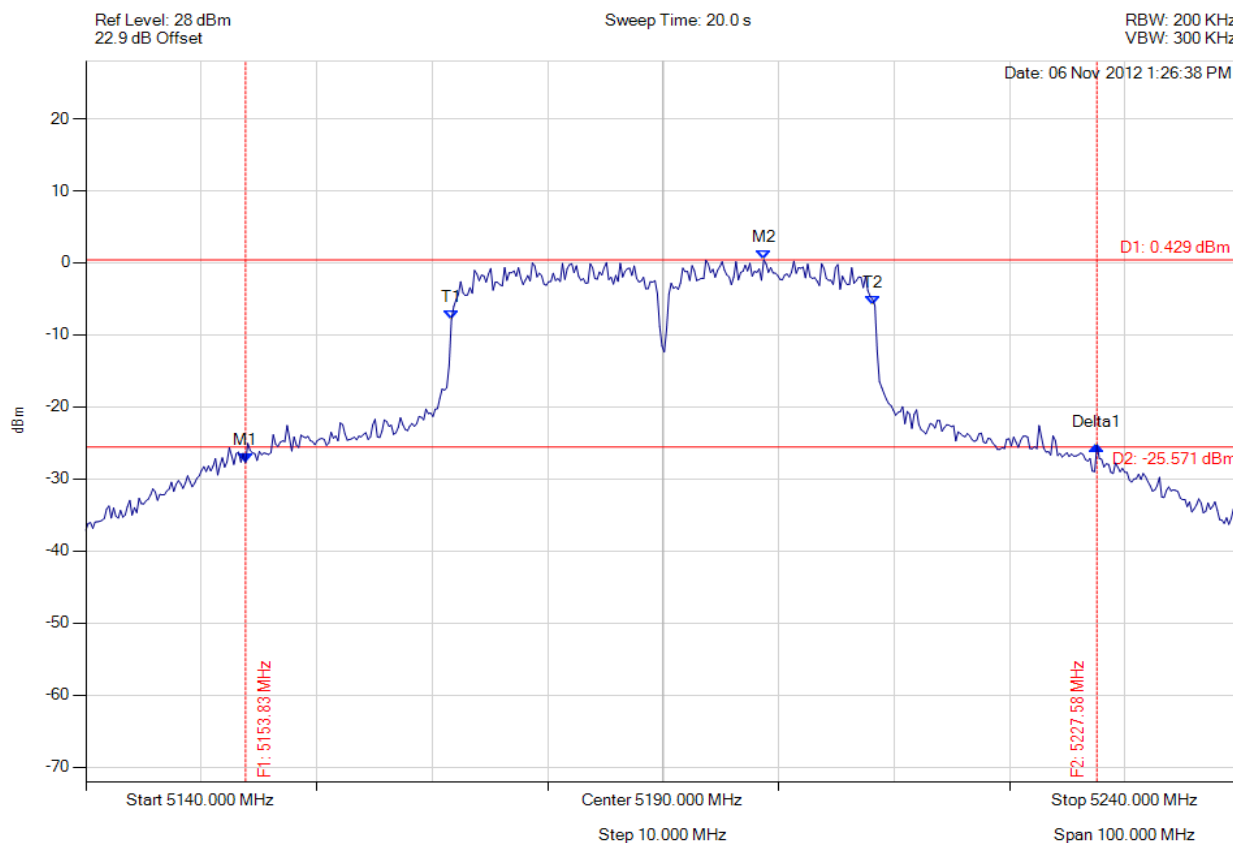


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### 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5153.828 MHz : -27.763 dBm M2 : 5198.717 MHz : 0.429 dBm Delta1 : 73.747 MHz : 2.463 dB T1 : 5171.663 MHz : -7.894 dBm T2 : 5208.136 MHz : -5.919 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 73.747 MHz Measured 99% Bandwidth: 36.673 MHz

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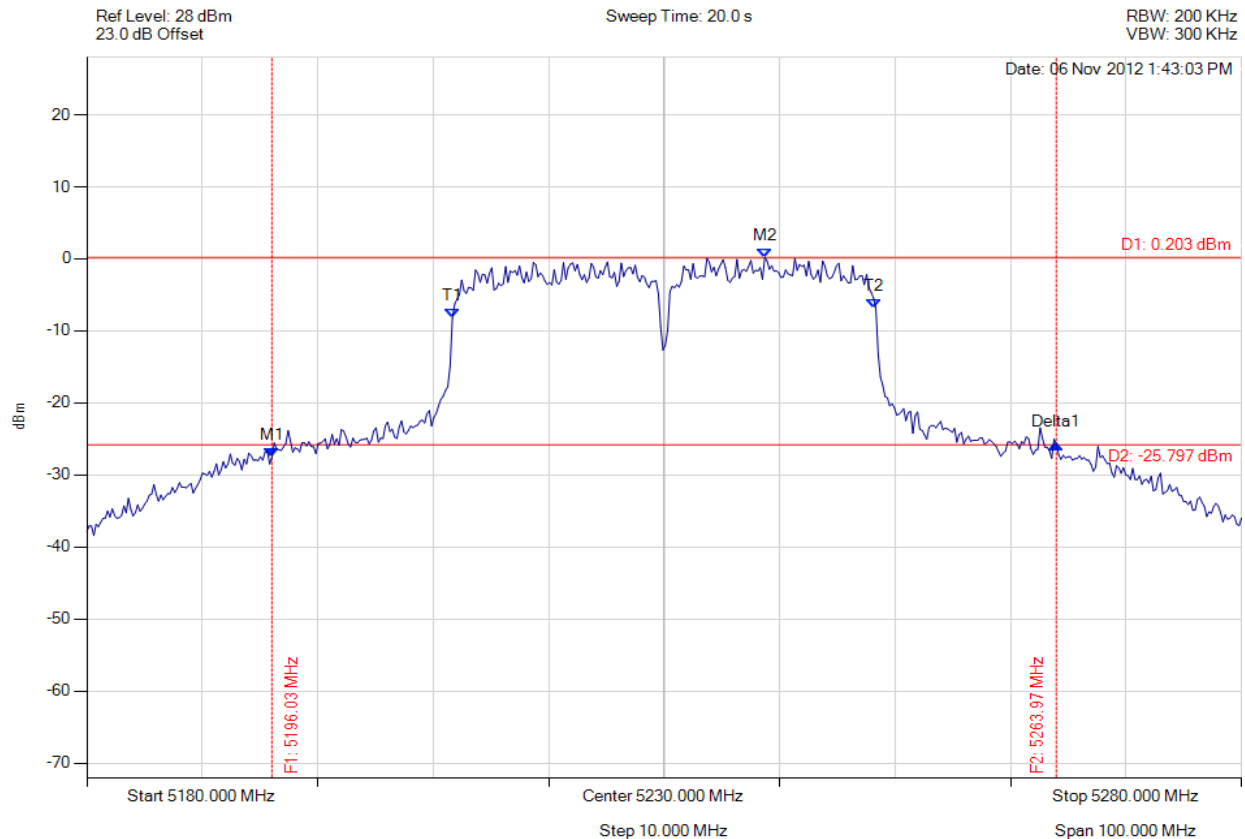


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## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5196.032 MHz : -27.517 dBm M2 : 5238.717 MHz : 0.203 dBm Delta1 : 67.936 MHz : 1.808 dB T1 : 5211.663 MHz : -8.201 dBm T2 : 5248.136 MHz : -6.901 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 67.936 MHz Measured 99% Bandwidth: 36.673 MHz

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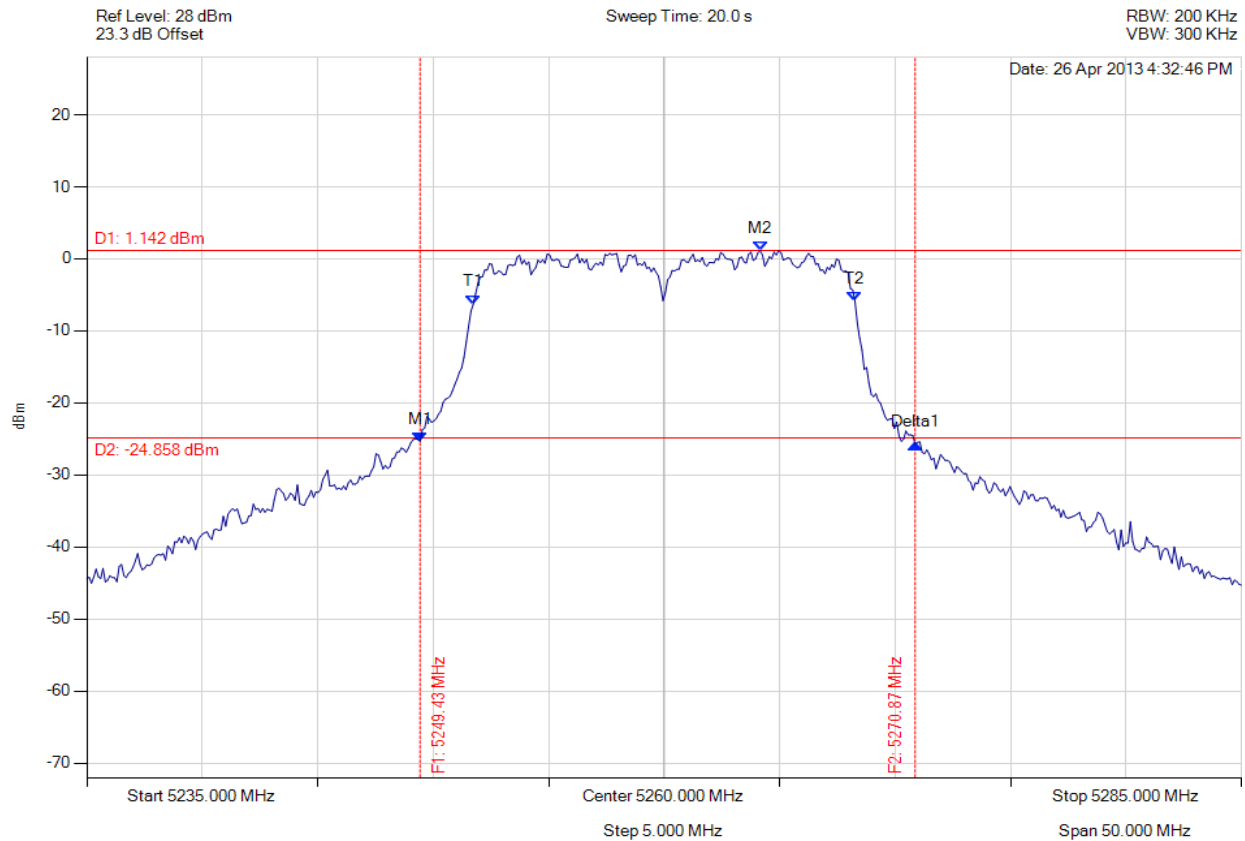


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# **26 dB & 99% BANDWIDTH**

Variant: 802.11a, Channel: 5260.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5249.429 MHz : -25.370 dBm M2 : 5264.158 MHz : 1.142 dBm Delta1 : 21.443 MHz : -0.401 dB T1 : 5251.733 MHz : -6.295 dBm T2 : 5268.267 MHz : -5.937 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 21.443 MHz Measured 99% Bandwidth: 16.533 MHz

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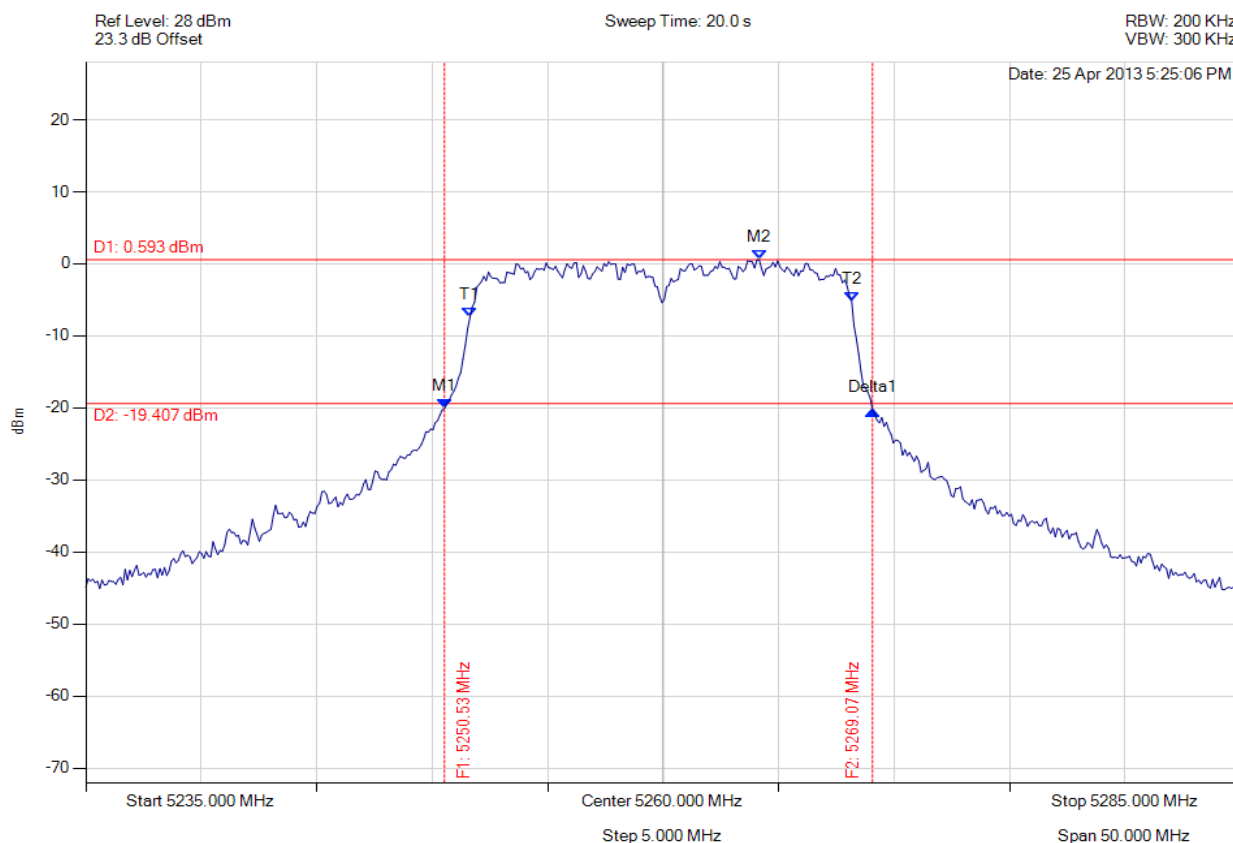


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# **20 dB & 99% BANDWIDTH**

Variant: 802.11a, Channel: 5260.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.531 MHz : -20.070 dBm M2 : 5264.158 MHz : 0.593 dBm Delta1 : 18.537 MHz : -0.238 dB T1 : 5251.633 MHz : -7.450 dBm T2 : 5268.166 MHz : -5.225 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 18.537 MHz Measured 99% Bandwidth: 16.533 MHz

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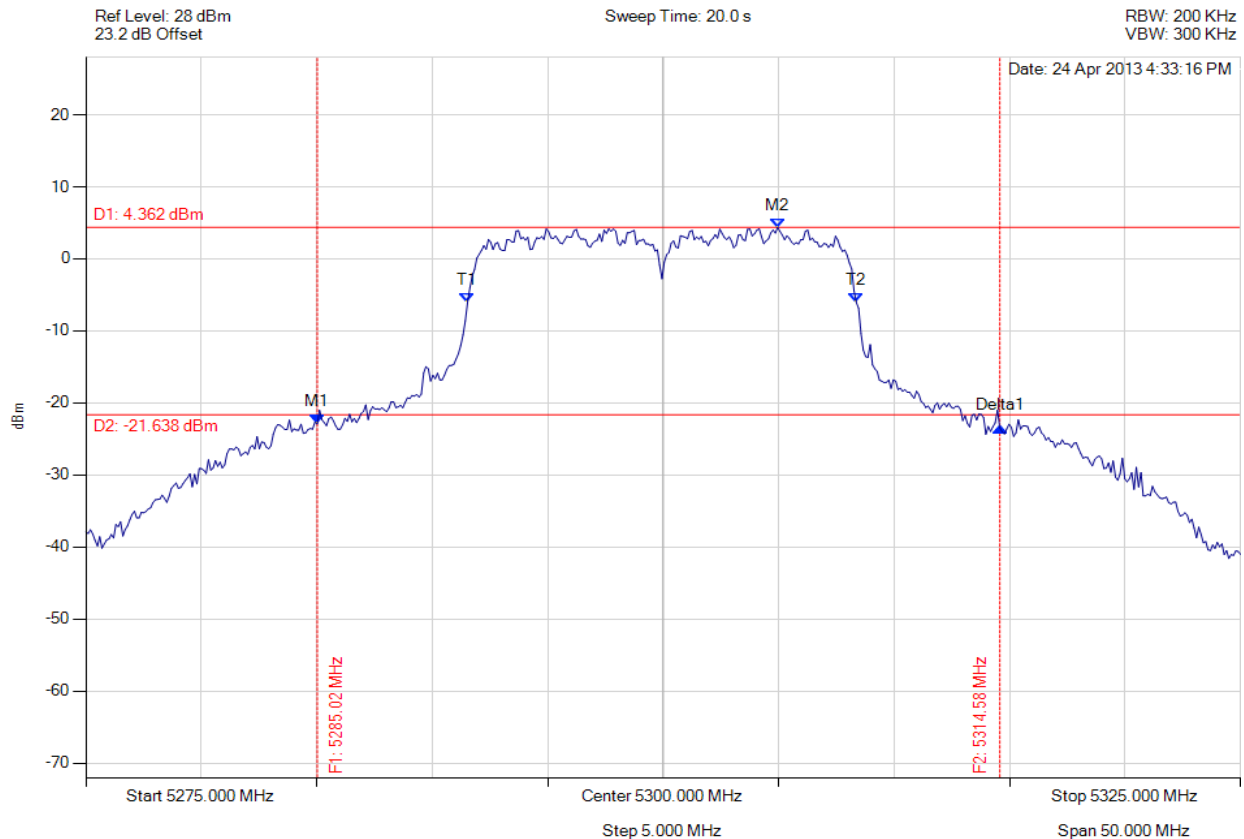


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## 26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5300.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5285.020 MHz : -22.927 dBm M2 : 5304.960 MHz : 4.362 dBm Delta1 : 29.559 MHz : -0.525 dB T1 : 5291.533 MHz : -6.010 dBm T2 : 5308.367 MHz : -6.055 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 29.559 MHz Measured 99% Bandwidth: 16.834 MHz

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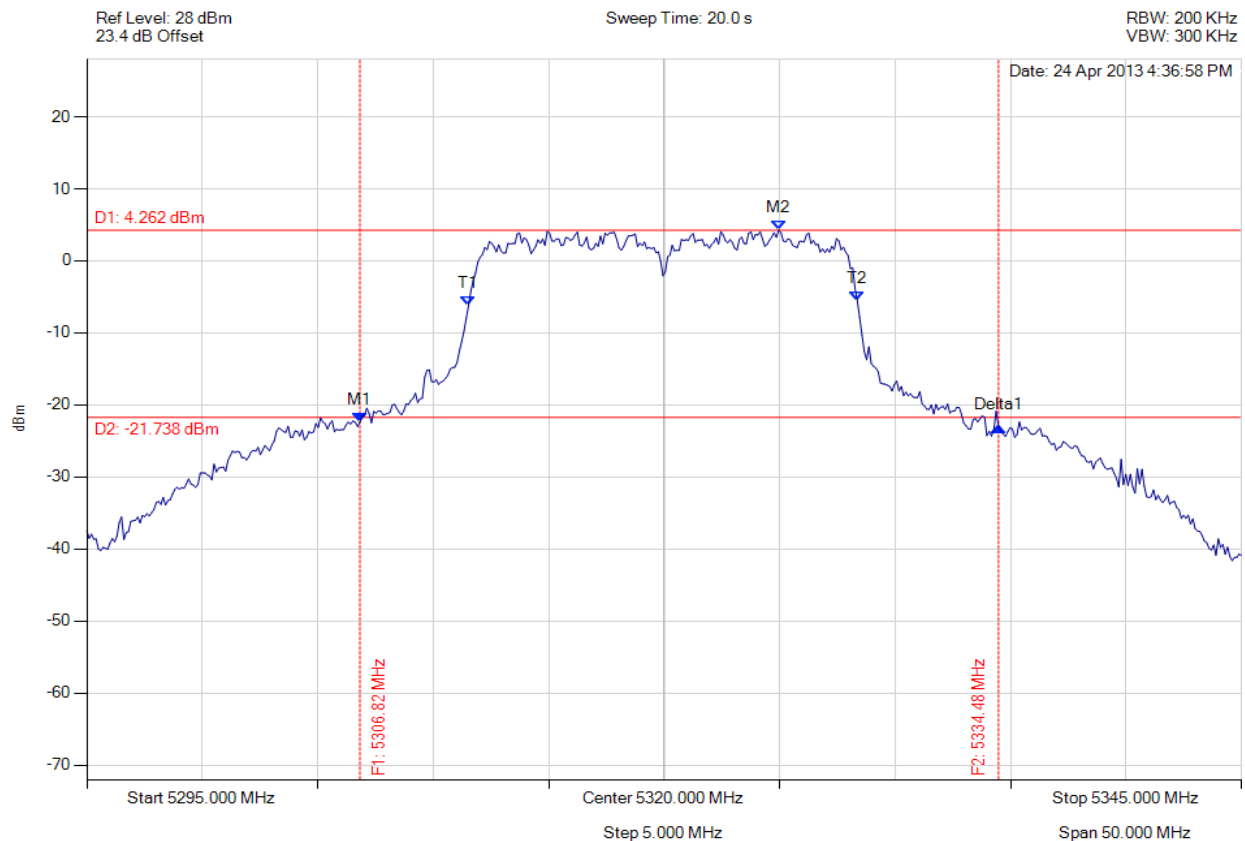


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## 26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5320.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5306.824 MHz : -22.404 dBm M2 : 5324.960 MHz : 4.262 dBm Delta1 : 27.655 MHz : -0.604 dB T1 : 5311.533 MHz : -6.175 dBm T2 : 5328.367 MHz : -5.583 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 27.655 MHz Measured 99% Bandwidth: 16.834 MHz

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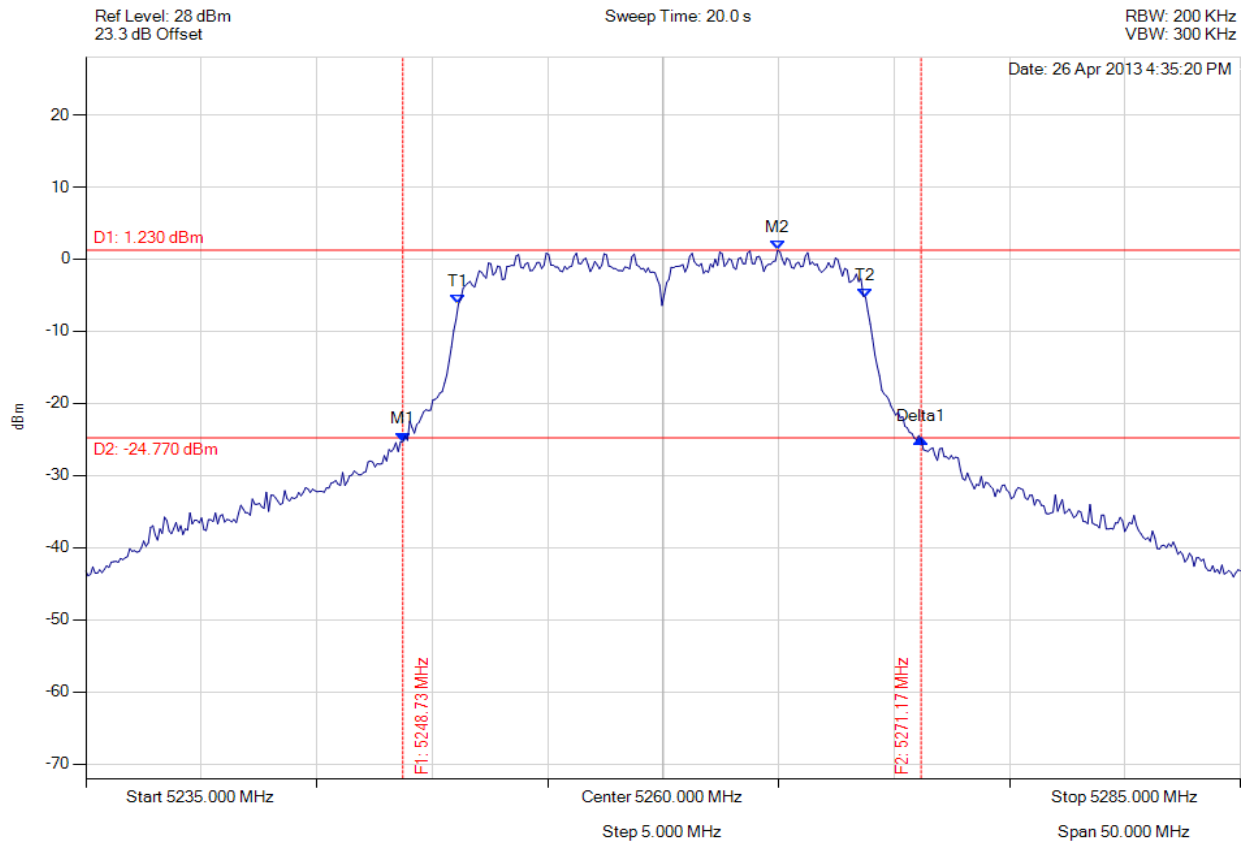


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
**To:** FCC 47 CFR Part 15.407 & IC RSS-210  
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### 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5248.727 MHz : -25.300 dBm M2 : 5264.960 MHz : 1.230 dBm Delta1 : 22.445 MHz : 0.344 dB T1 : 5251.132 MHz : -6.222 dBm T2 : 5268.768 MHz : -5.301 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 22.445 MHz Measured 99% Bandwidth: 17.635 MHz

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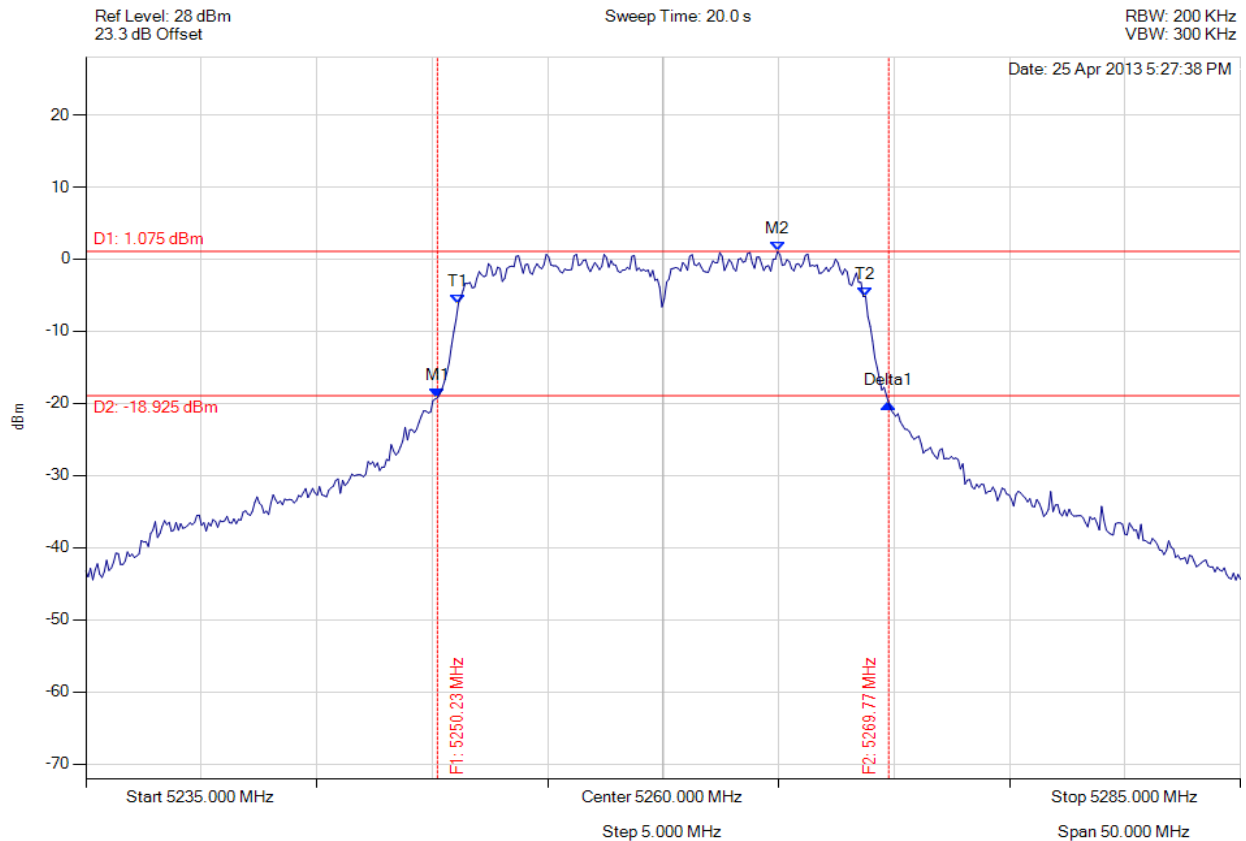


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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#### 20 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.230 MHz : -19.246 dBm M2 : 5264.960 MHz : 1.075 dBm Delta1 : 19.539 MHz : -0.728 dB T1 : 5251.132 MHz : -6.140 dBm T2 : 5268.768 MHz : -5.162 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 19.539 MHz Measured 99% Bandwidth: 17.635 MHz

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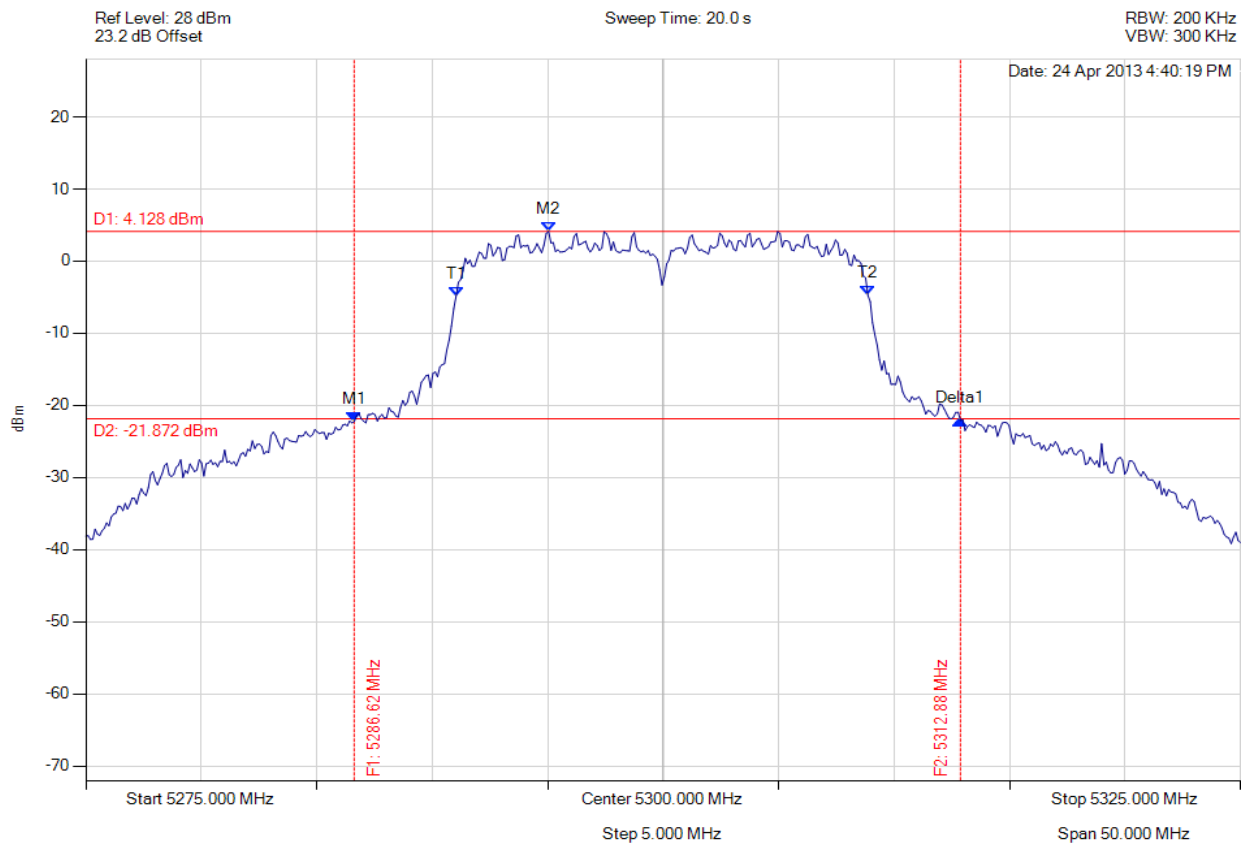


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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### 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5286.623 MHz : -22.223 dBm M2 : 5295.040 MHz : 4.128 dBm Delta1 : 26.253 MHz : 0.124 dB T1 : 5291.032 MHz : -4.873 dBm T2 : 5308.868 MHz : -4.751 dBm OBW : 17.836 MHz	Measured 26 dB Bandwidth: 26.253 MHz Measured 99% Bandwidth: 17.836 MHz

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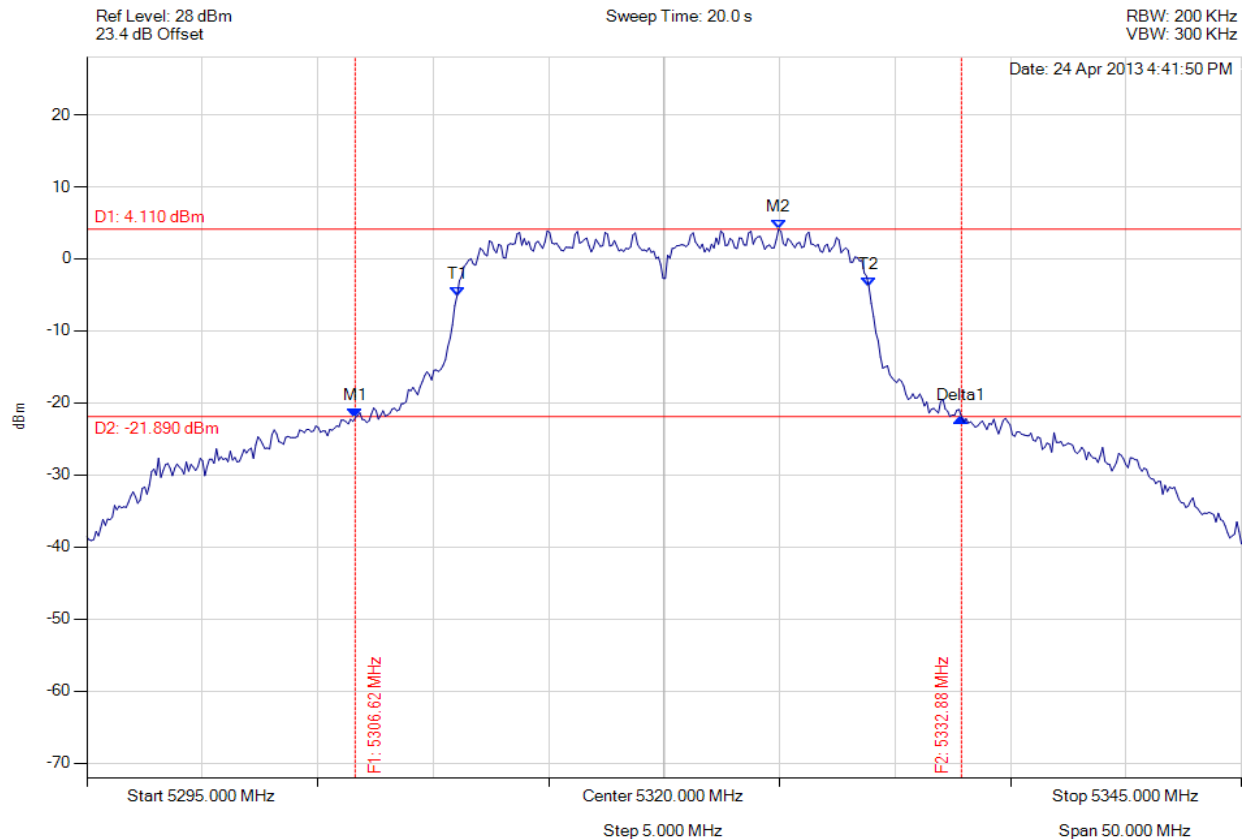


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5306.623 MHz : -22.073 dBm M2 : 5324.960 MHz : 4.110 dBm Delta1 : 26.253 MHz : 0.071 dB T1 : 5311.032 MHz : -5.140 dBm T2 : 5328.868 MHz : -3.903 dBm OBW : 17.836 MHz	Measured 26 dB Bandwidth: 26.253 MHz Measured 99% Bandwidth: 17.836 MHz

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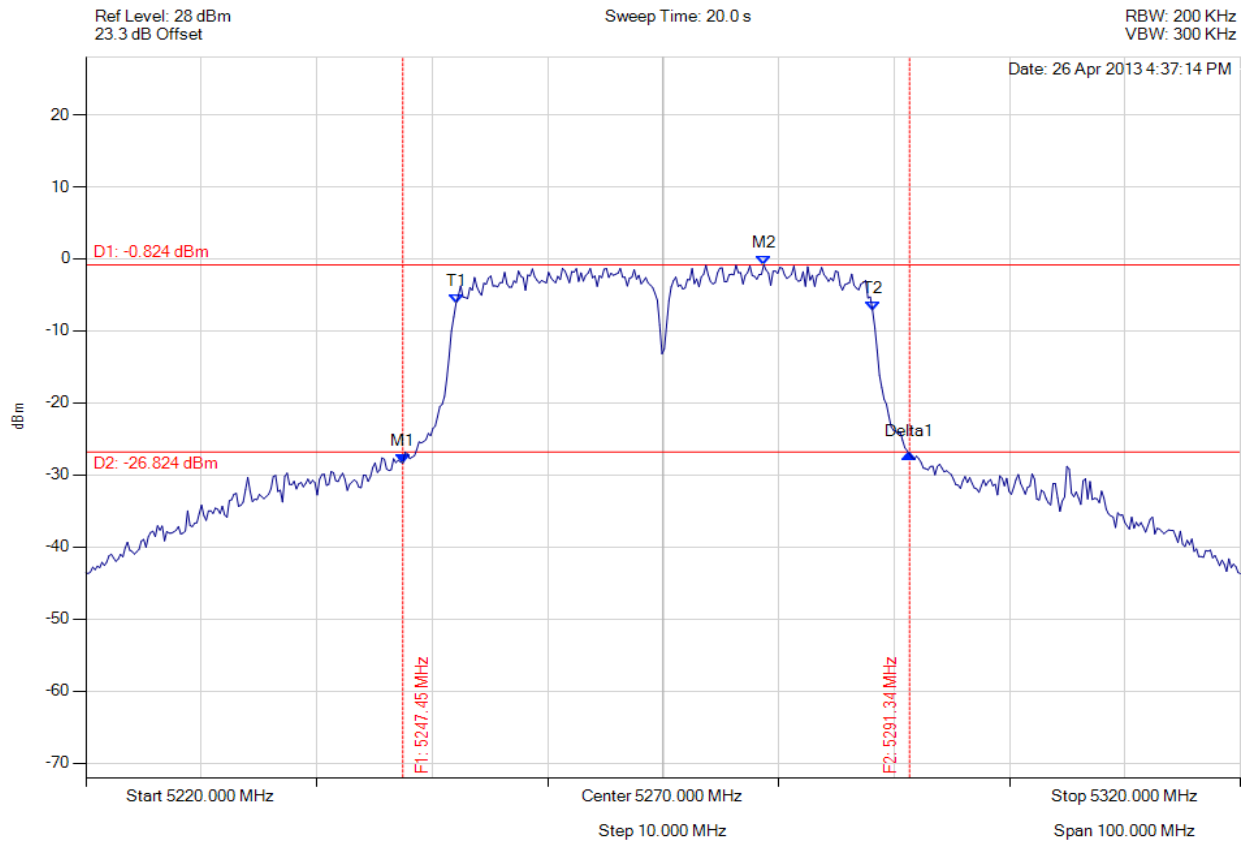


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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### 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5247.455 MHz : -28.369 dBm M2 : 5278.717 MHz : -0.824 dBm Delta1 : 43.888 MHz : 1.308 dB T1 : 5252.064 MHz : -6.179 dBm T2 : 5288.136 MHz : -7.159 dBm OBW : 36.072 MHz	Measured 26 dB Bandwidth: 43.888 MHz Measured 99% Bandwidth: 36.072 MHz

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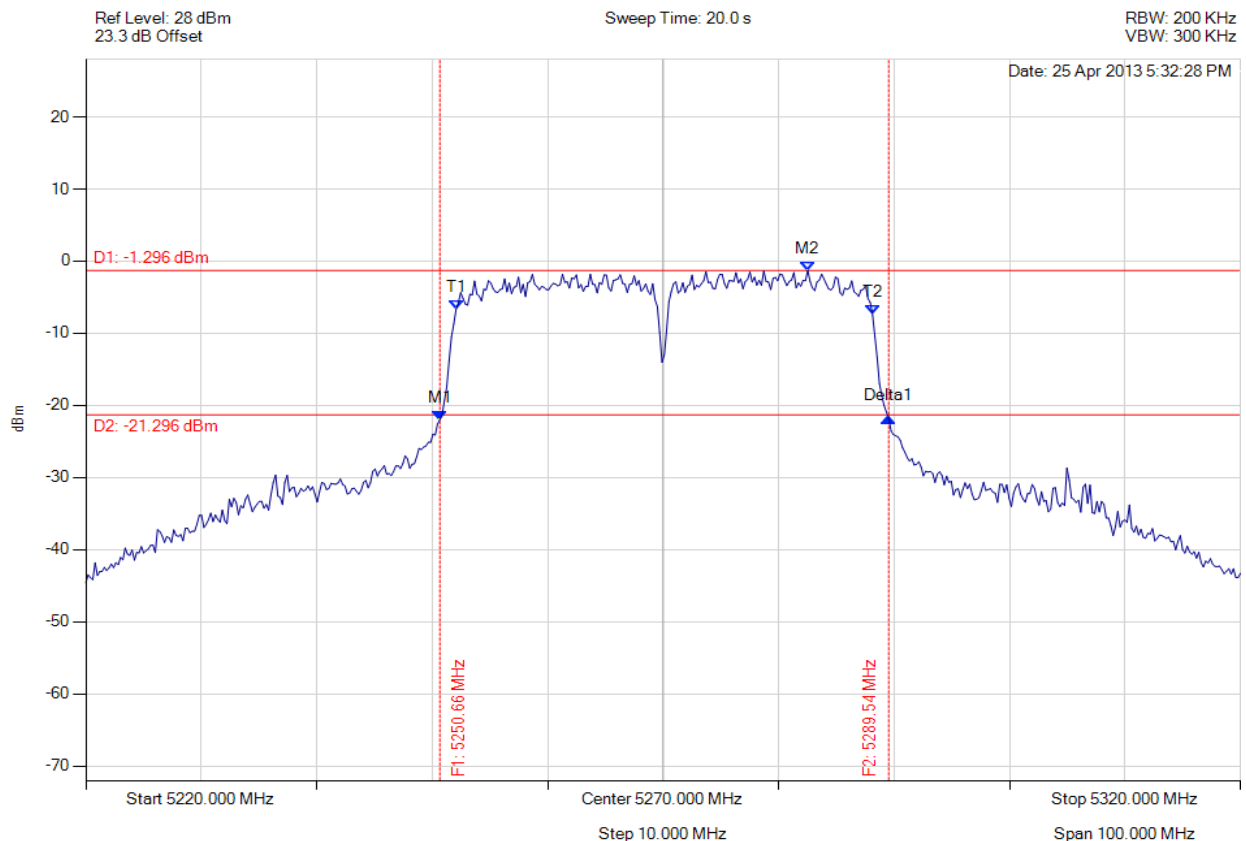


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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#### 20 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.661 MHz : -22.008 dBm M2 : 5282.525 MHz : -1.296 dBm Delta1 : 38.878 MHz : 0.228 dB T1 : 5252.064 MHz : -6.712 dBm T2 : 5288.136 MHz : -7.436 dBm OBW : 36.072 MHz	Measured 26 dB Bandwidth: 38.878 MHz Measured 99% Bandwidth: 36.072 MHz

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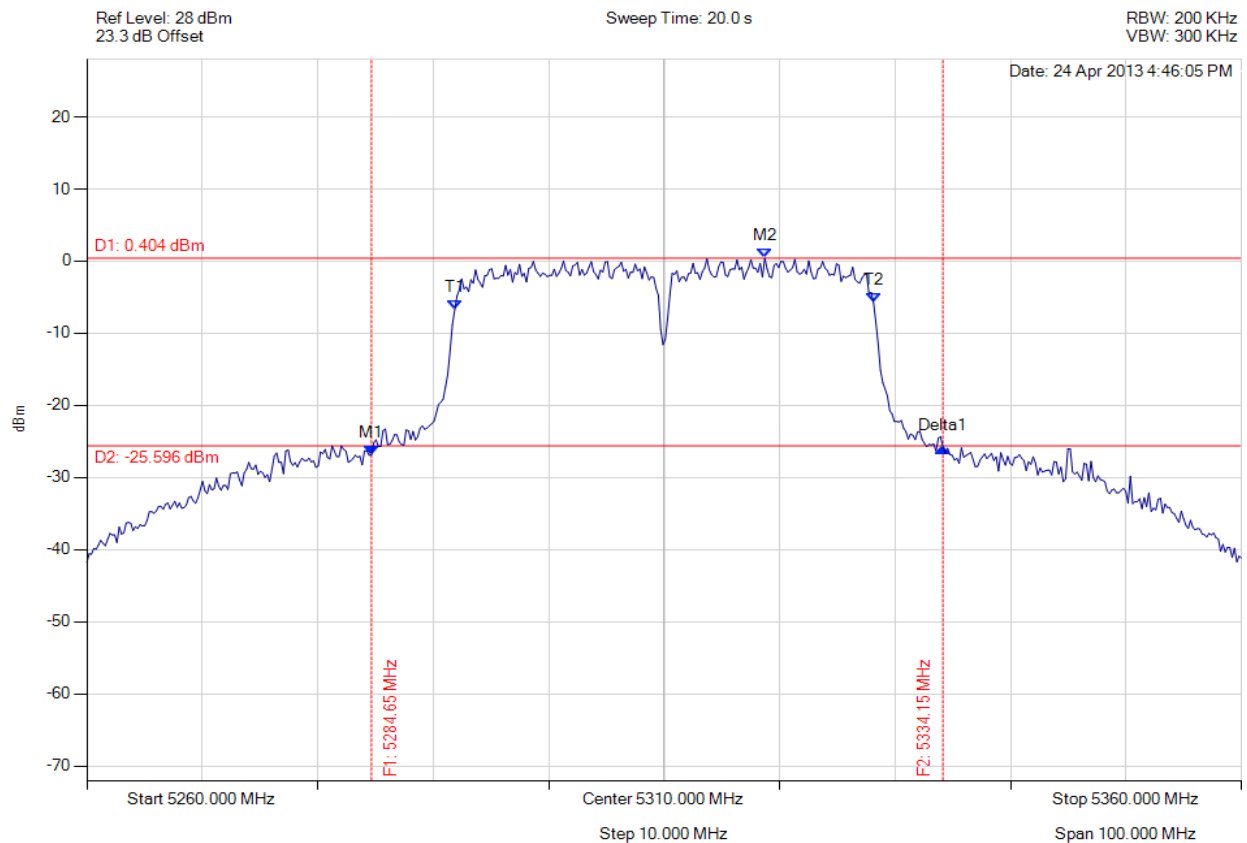


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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### 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5284.649 MHz : -26.875 dBm M2 : 5318.717 MHz : 0.404 dBm Delta1 : 49.499 MHz : 1.056 dB T1 : 5291.864 MHz : -6.692 dBm T2 : 5328.136 MHz : -5.758 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 49.499 MHz Measured 99% Bandwidth: 36.273 MHz

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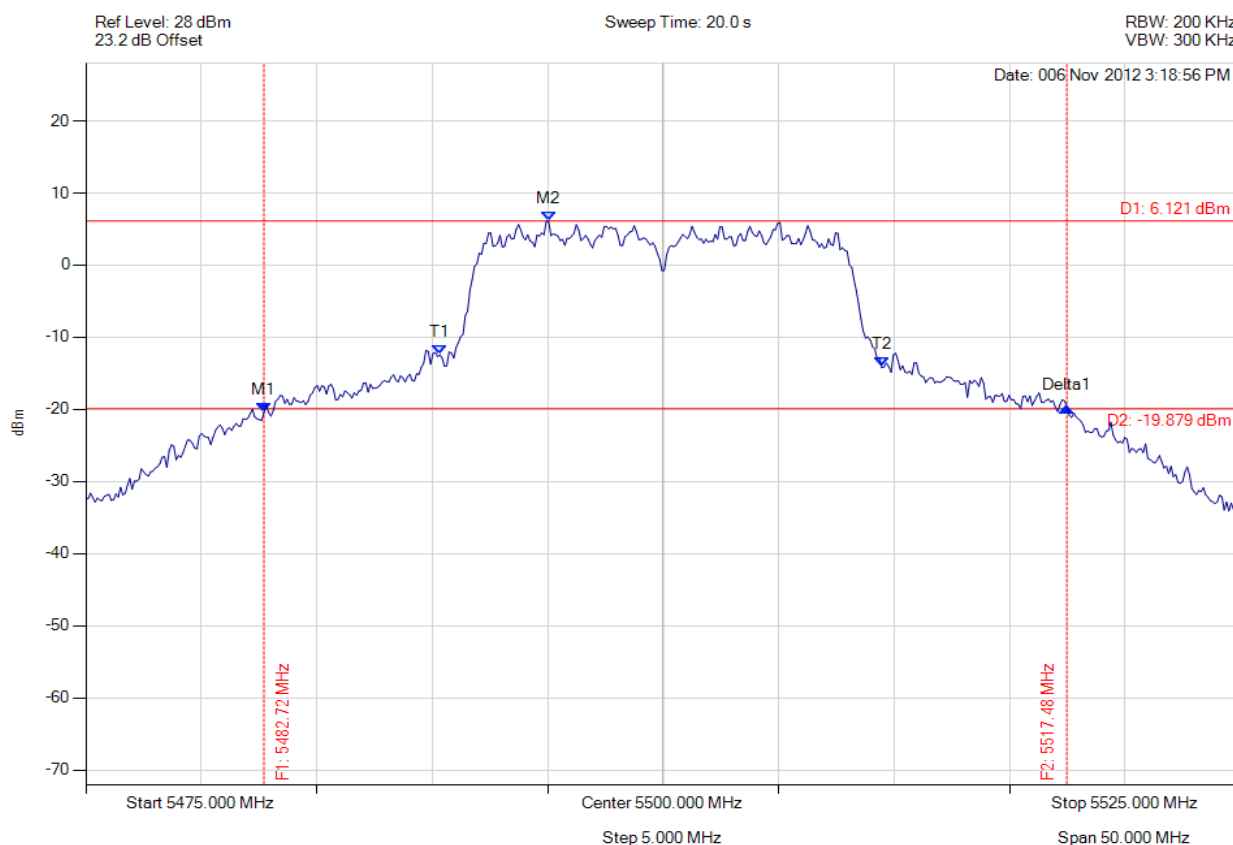


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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### 26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5500.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5482.715 MHz : -20.389 dBm M2 : 5495.040 MHz : 6.121 dBm Delta1 : 34.770 MHz : 0.722 dB T1 : 5490.331 MHz : -12.427 dBm T2 : 5509.469 MHz : -14.113 dBm OBW : 19.238 MHz	Measured 26 dB Bandwidth: 34.770 MHz Measured 99% Bandwidth: 19.238 MHz

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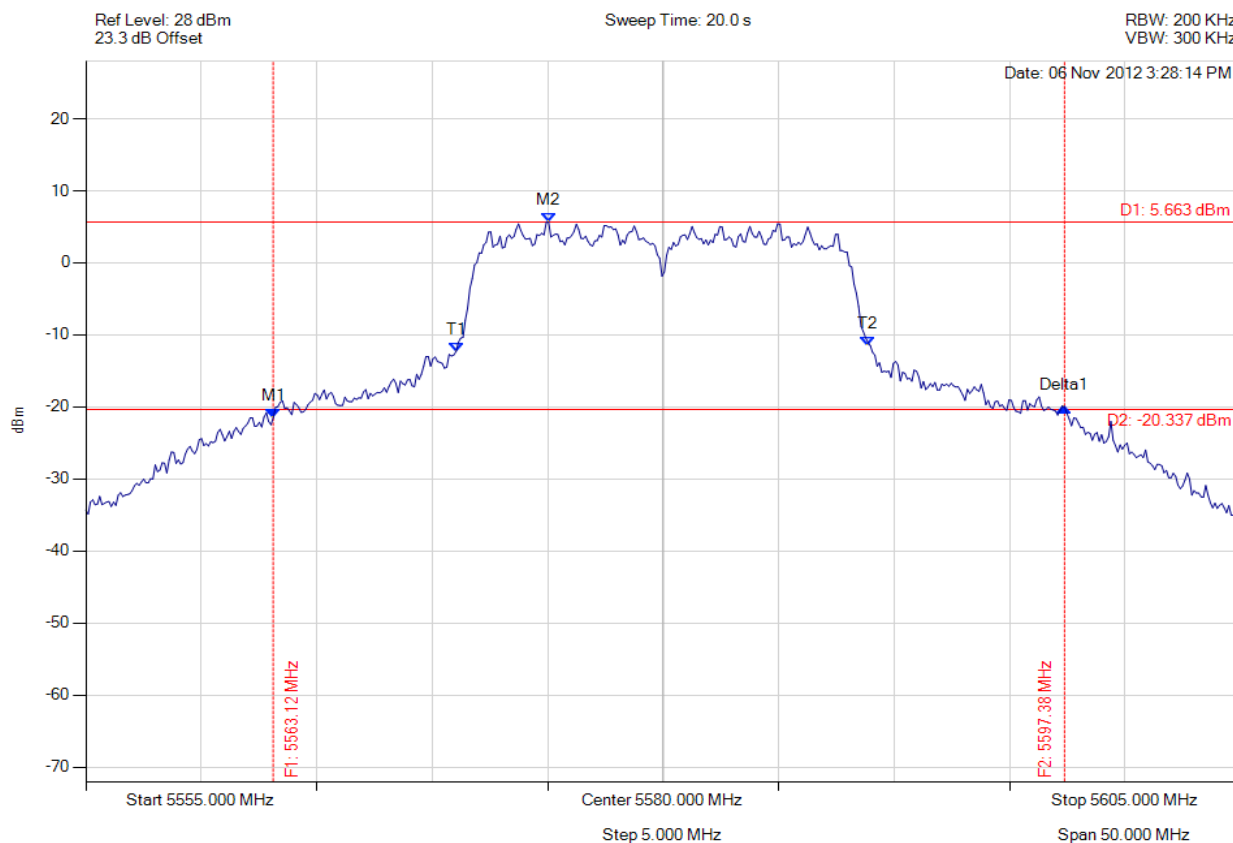


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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### 26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5580.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5563.116 MHz : -21.524 dBm M2 : 5575.040 MHz : 5.663 dBm Delta1 : 34.269 MHz : 1.481 dB T1 : 5571.032 MHz : -12.315 dBm T2 : 5588.868 MHz : -11.481 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 34.269 MHz Measured 99% Bandwidth: 17.936 MHz

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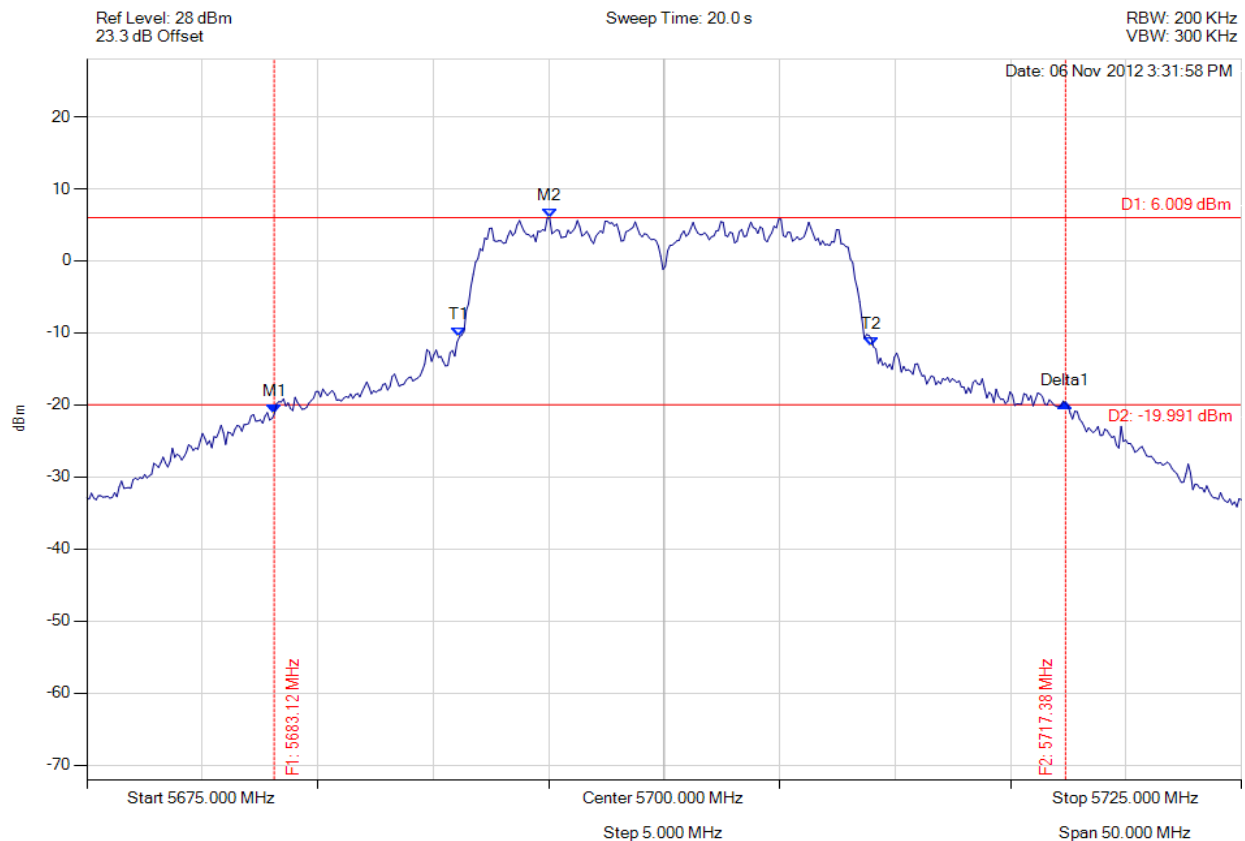


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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### 26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5700.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5683.116 MHz : -21.292 dBm M2 : 5695.040 MHz : 6.009 dBm Delta1 : 34.269 MHz : 1.499 dB T1 : 5691.132 MHz : -10.554 dBm T2 : 5708.968 MHz : -11.941 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 34.269 MHz Measured 99% Bandwidth: 17.936 MHz

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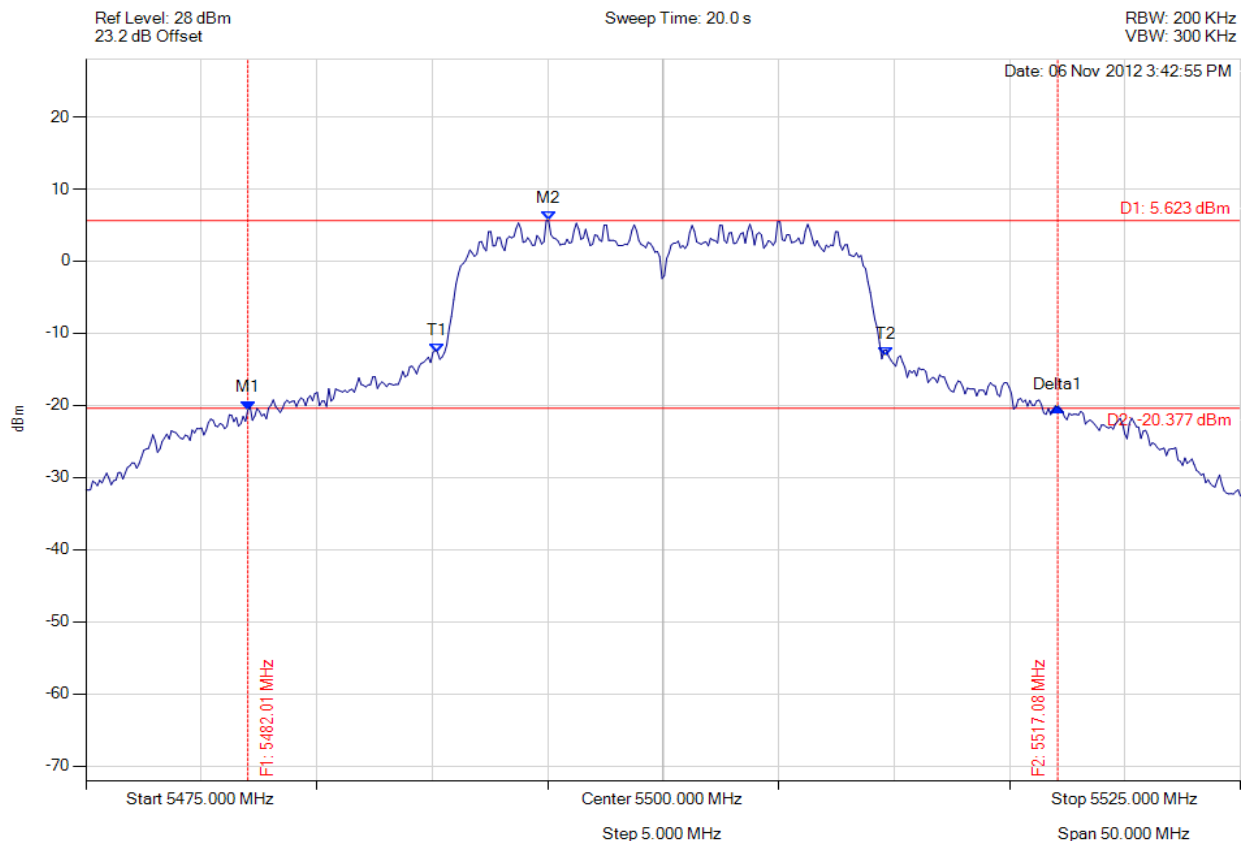


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### 26 dB & 99% BANDWIDTH

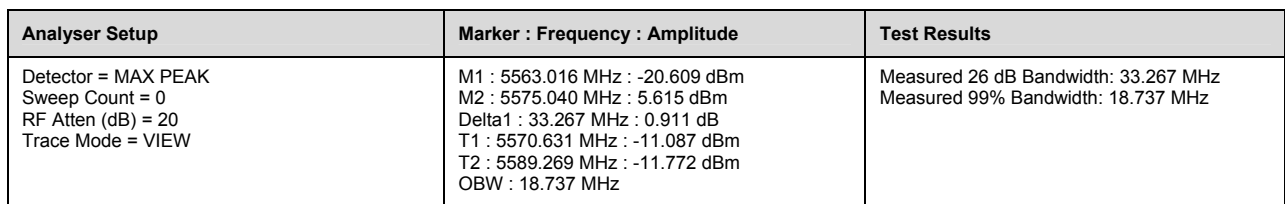
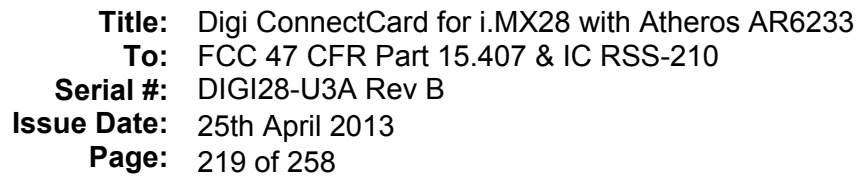
Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5482.014 MHz : -20.631 dBm M2 : 5495.040 MHz : 5.623 dBm Delta1 : 35.070 MHz : 0.382 dB T1 : 5490.230 MHz : -12.644 dBm T2 : 5509.669 MHz : -13.232 dBm OBW : 19.539 MHz	Measured 26 dB Bandwidth: 35.070 MHz Measured 99% Bandwidth: 19.539 MHz

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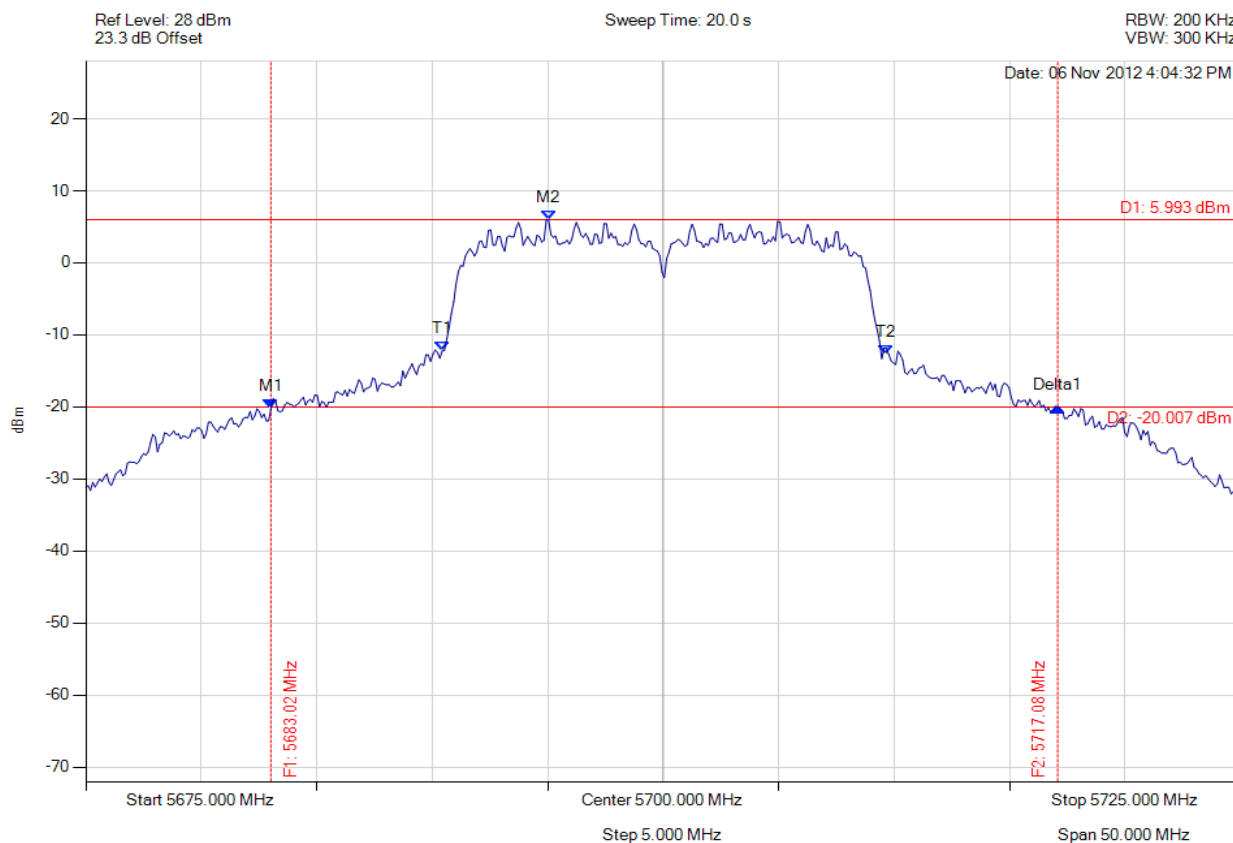


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### 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5700.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5683.016 MHz : -20.283 dBm M2 : 5695.040 MHz : 5.993 dBm Delta1 : 34.068 MHz : 0.279 dB T1 : 5690.431 MHz : -12.254 dBm T2 : 5709.669 MHz : -12.707 dBm OBW : 19.339 MHz	Measured 26 dB Bandwidth: 34.068 MHz Measured 99% Bandwidth: 19.339 MHz

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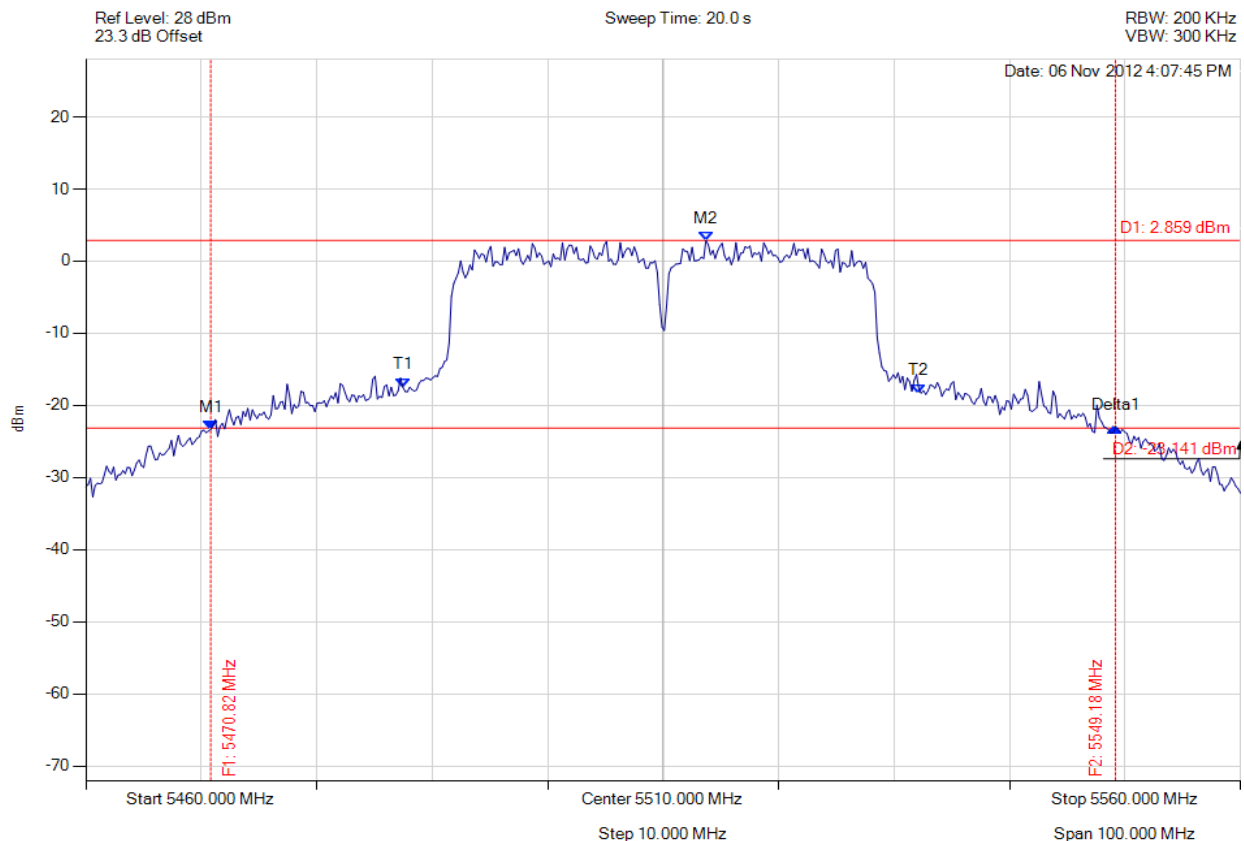


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### 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5470.822 MHz : -23.338 dBm M2 : 5513.707 MHz : 2.859 dBm Delta1 : 78.357 MHz : 0.295 dB T1 : 5487.455 MHz : -17.460 dBm T2 : 5532.144 MHz : -18.294 dBm OBW : 44.890 MHz	Measured 26 dB Bandwidth: 78.357 MHz Measured 99% Bandwidth: 44.890 MHz

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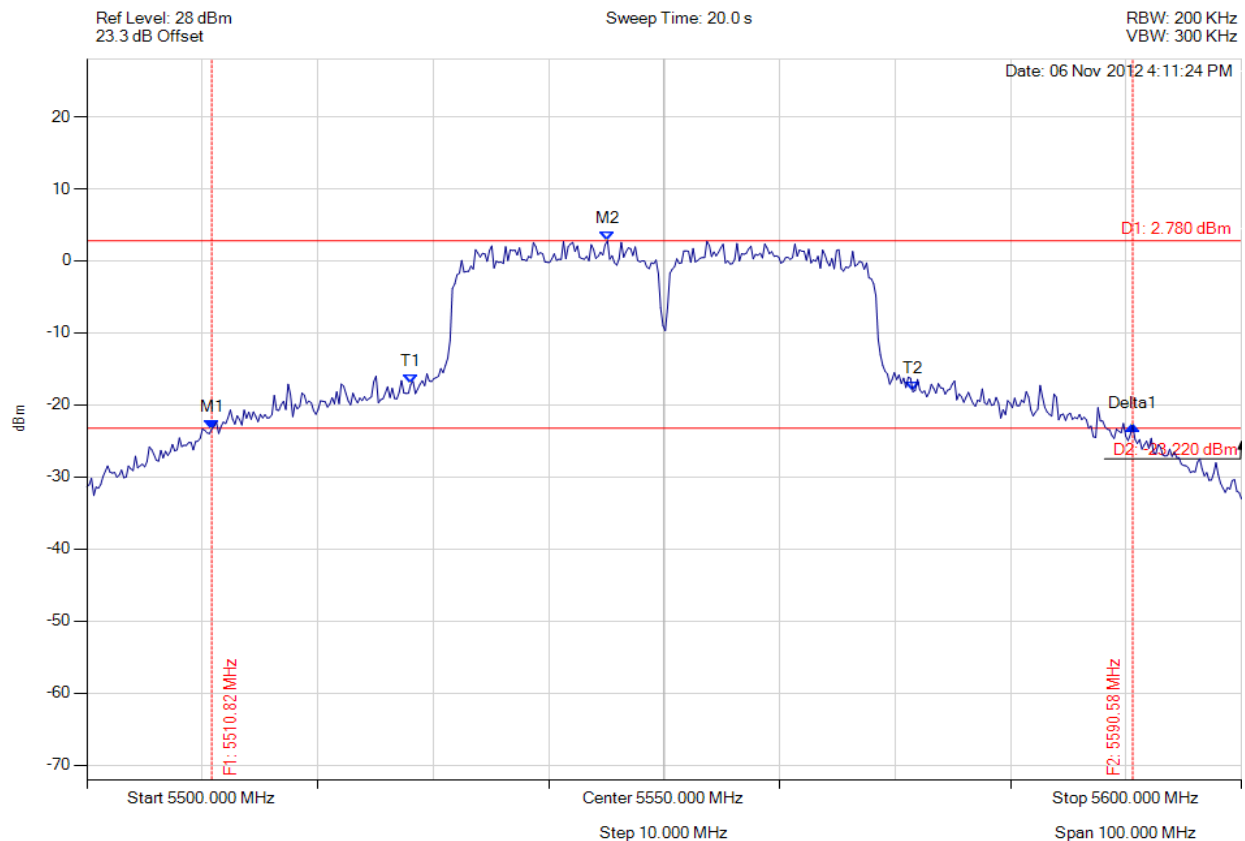


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5510.822 MHz : -23.334 dBm M2 : 5545.090 MHz : 2.780 dBm Delta1 : 79.760 MHz : 0.462 dB T1 : 5528.056 MHz : -17.123 dBm T2 : 5571.543 MHz : -18.007 dBm OBW : 43.687 MHz	Measured 26 dB Bandwidth: 79.760 MHz Measured 99% Bandwidth: 43.687 MHz

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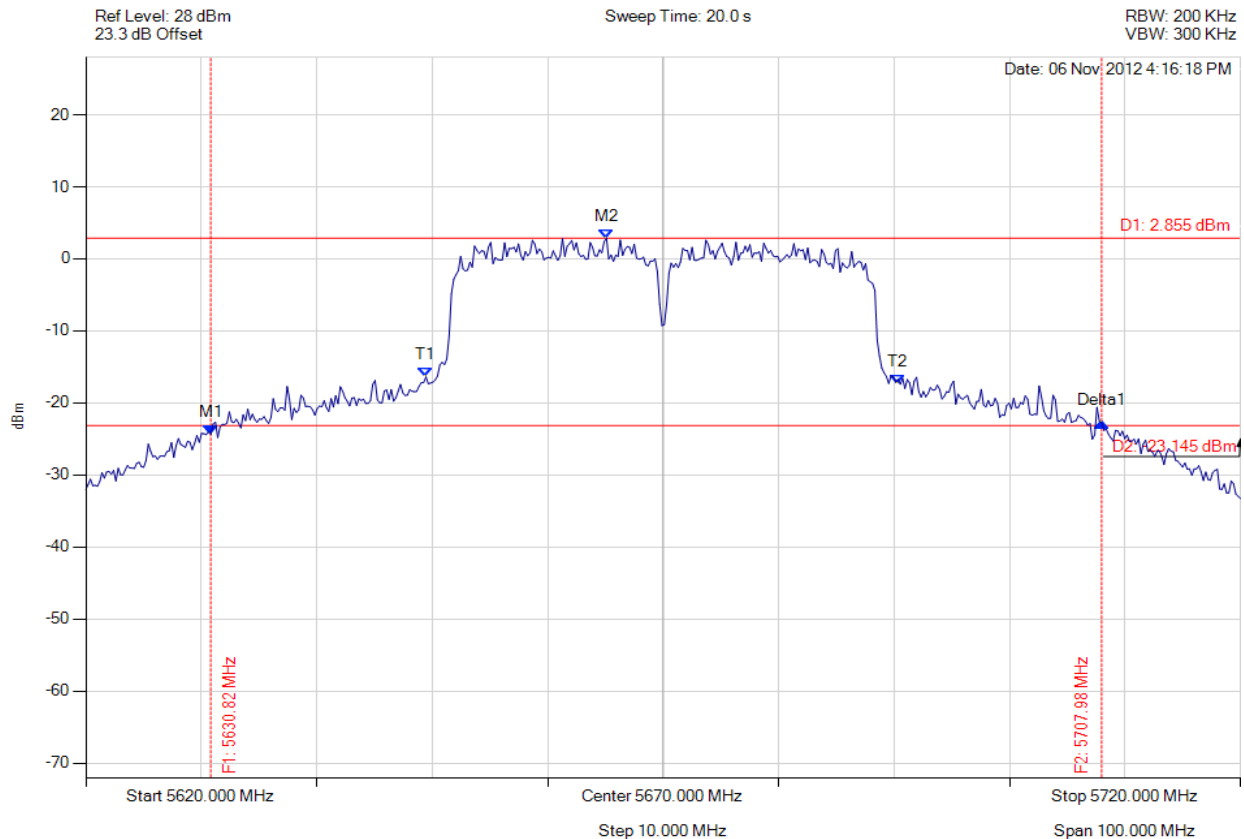


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5670.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5630.822 MHz : -24.359 dBm M2 : 5665.090 MHz : 2.855 dBm Delta1 : 77.154 MHz : 1.613 dB T1 : 5649.459 MHz : -16.384 dBm T2 : 5690.341 MHz : -17.412 dBm OBW : 41.082 MHz	Measured 26 dB Bandwidth: 77.154 MHz Measured 99% Bandwidth: 41.082 MHz

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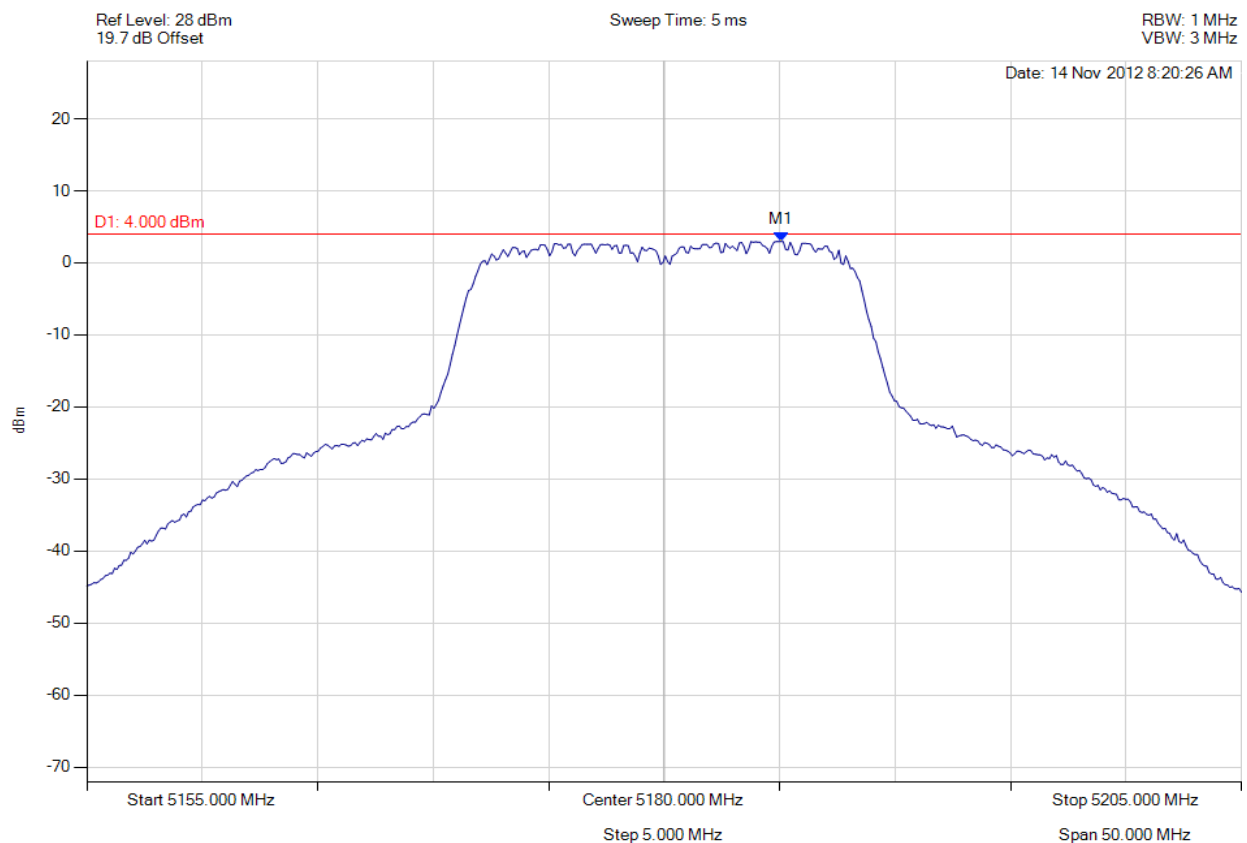
**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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### A.1.2. Peak Power Spectral Density



#### power density

Variant: 802.11a, Channel: 5180.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5185.060 MHz : 2.969 dBm	Limit: 8.000 dBm Margin: -5.03 dB

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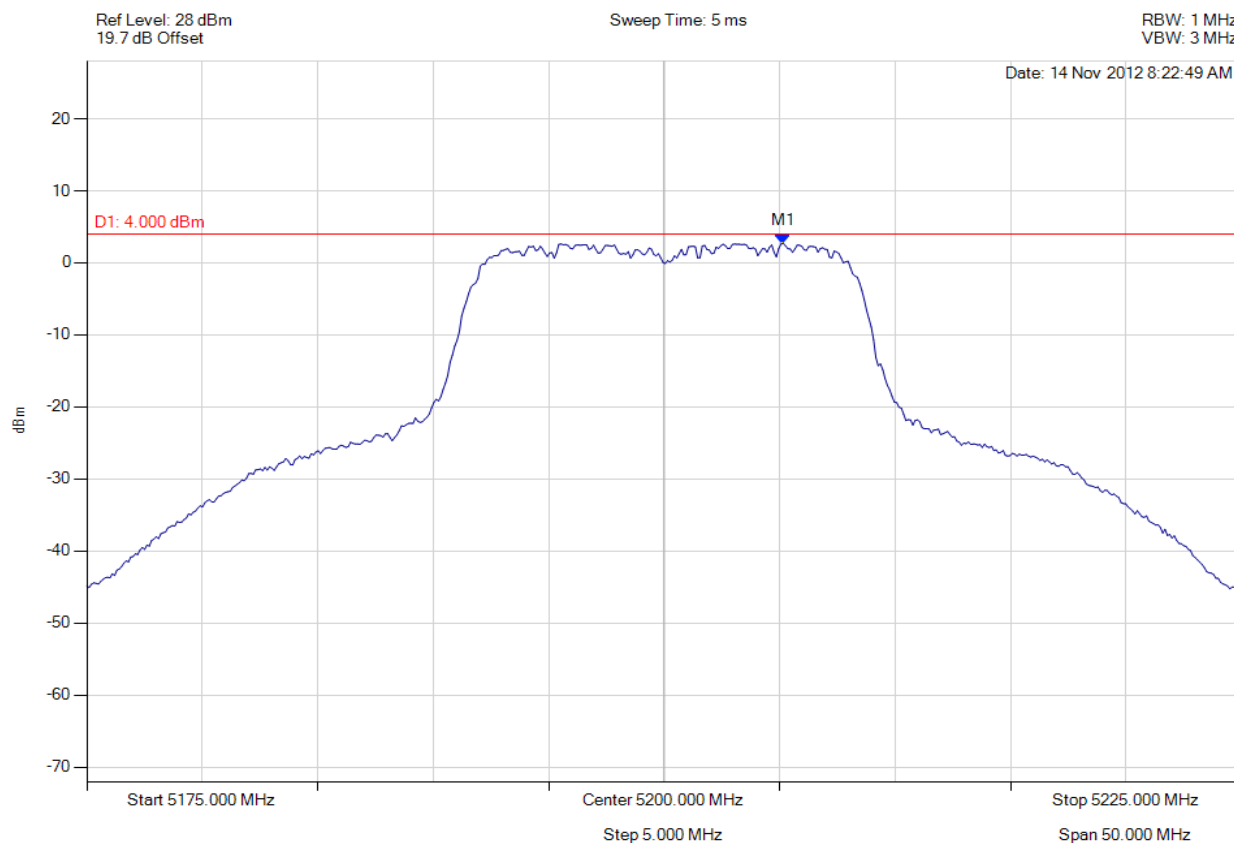


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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#### power density

Variant: 802.11a, Channel: 5200.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5205.160 MHz : 2.719 dBm	Limit: 8.000 dBm Margin: -5.28 dB

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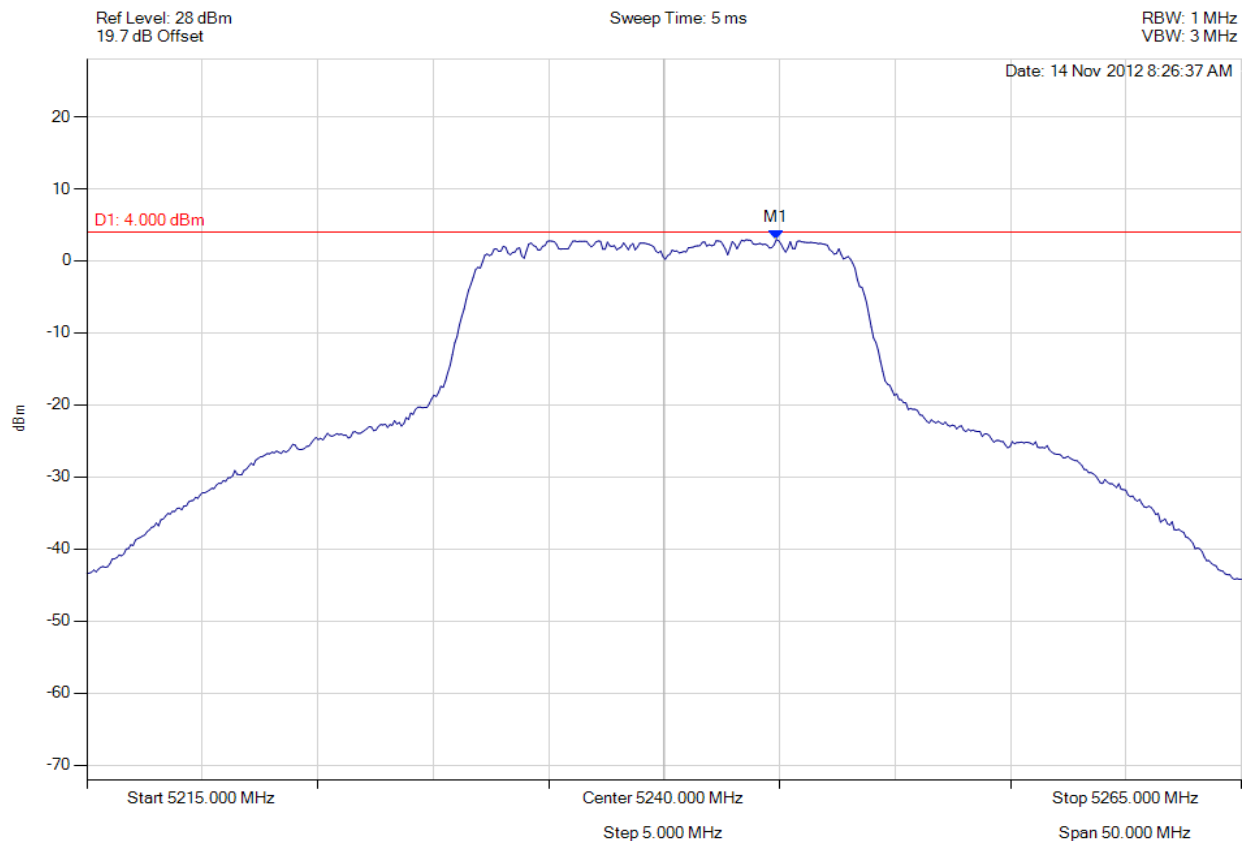


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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**power density**

Variant: 802.11a, Channel: 5240.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5244.860 MHz : 2.949 dBm	Limit: 8.000 dBm Margin: -5.05 dB

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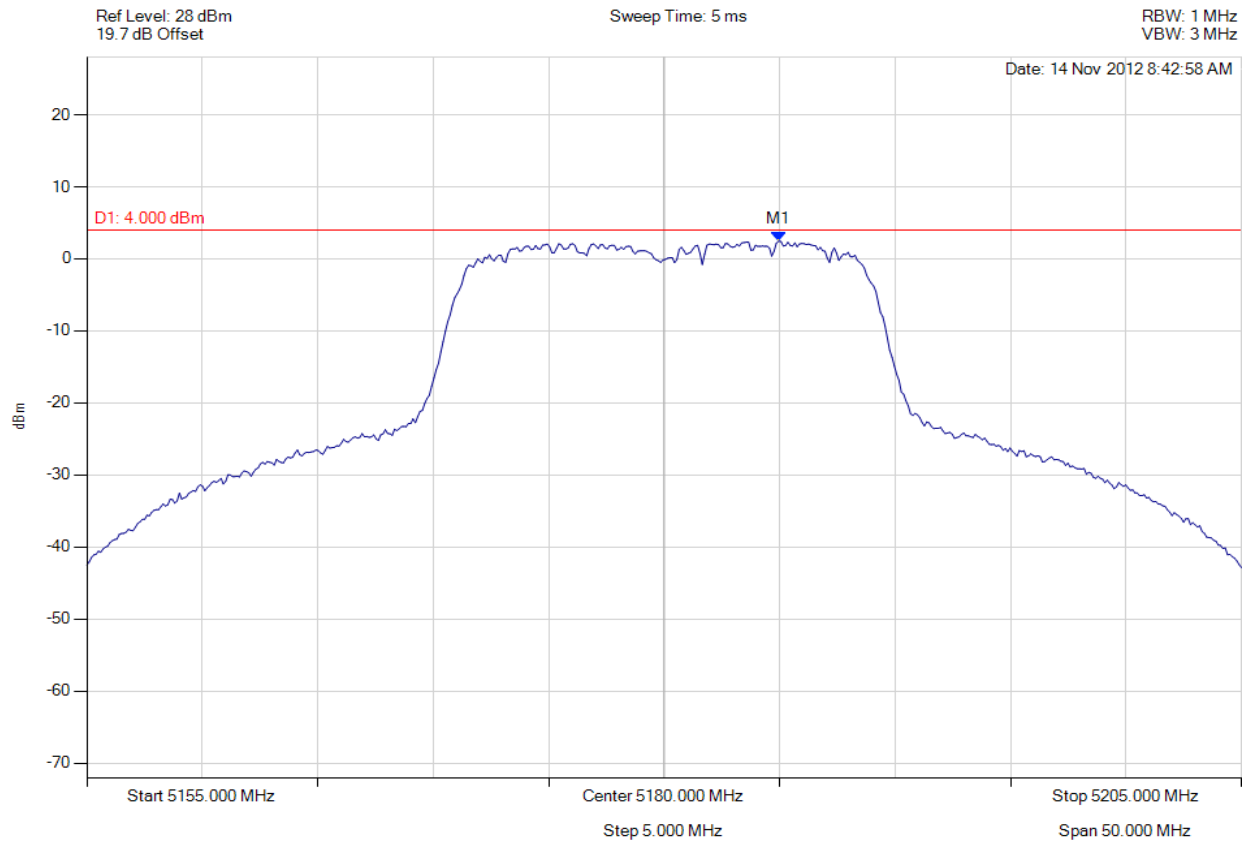


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**power density**

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5184.960 MHz : 2.448 dBm	Limit: 8.000 dBm Margin: -5.55 dB

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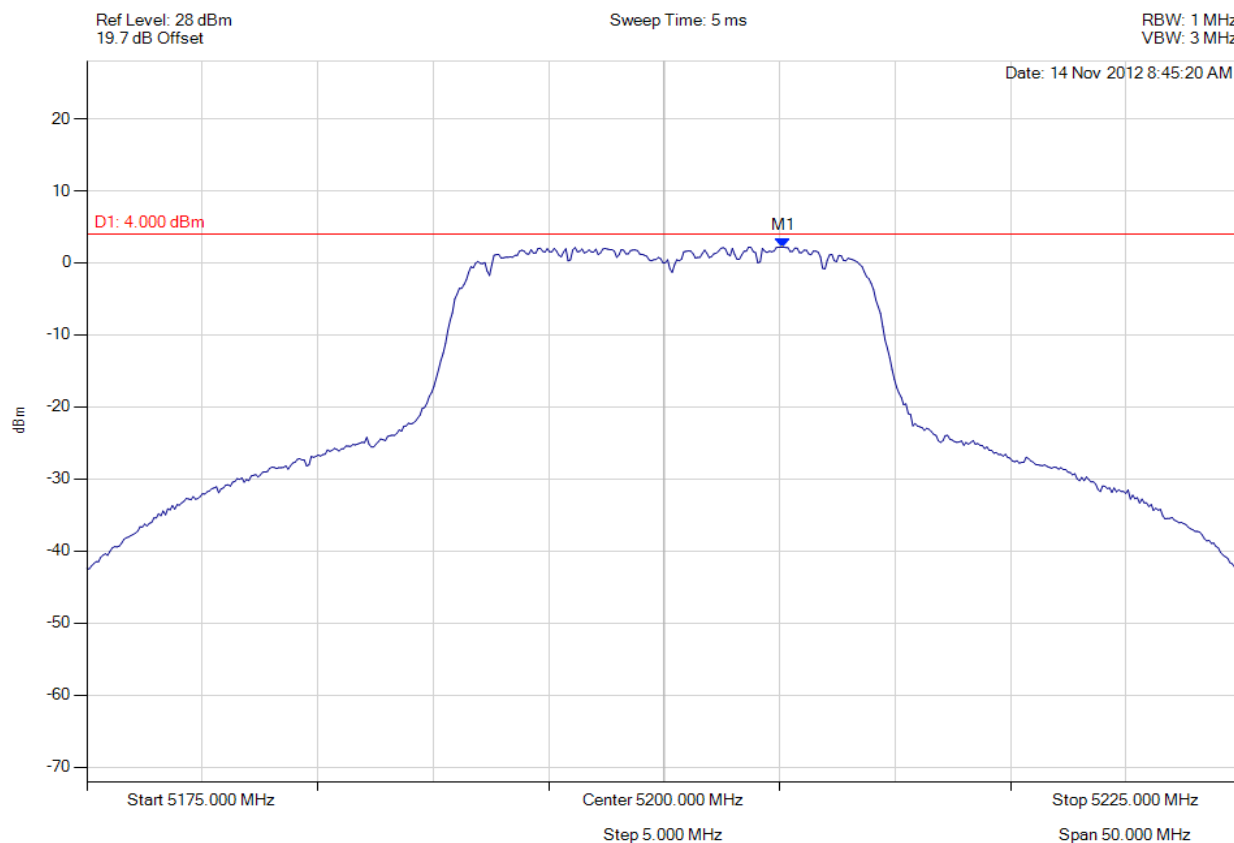


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**power density**

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5205.160 MHz : 2.182 dBm	Limit: 8.000 dBm Margin: -5.82 dB

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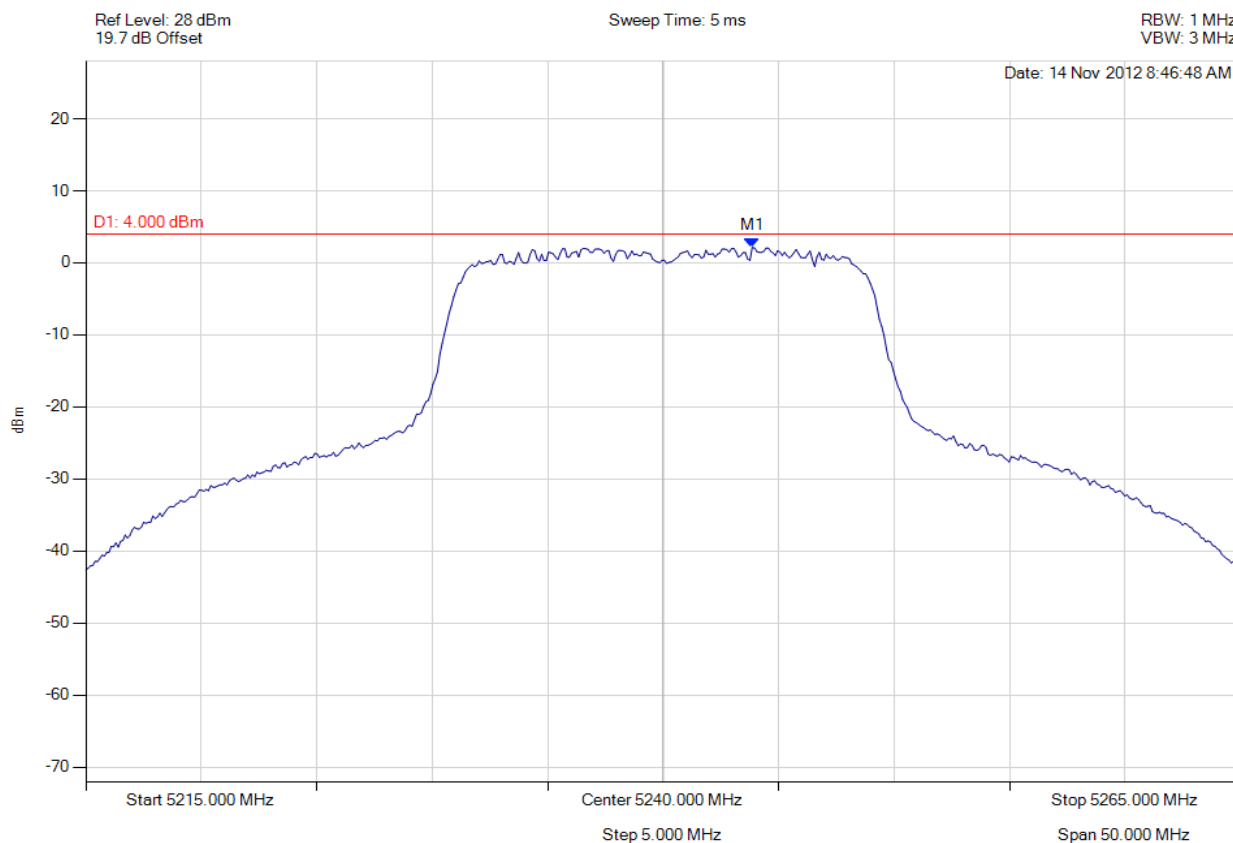


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# power density

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5243.858 MHz : 2.124 dBm	Limit: 8.000 dBm Margin: -5.88 dB

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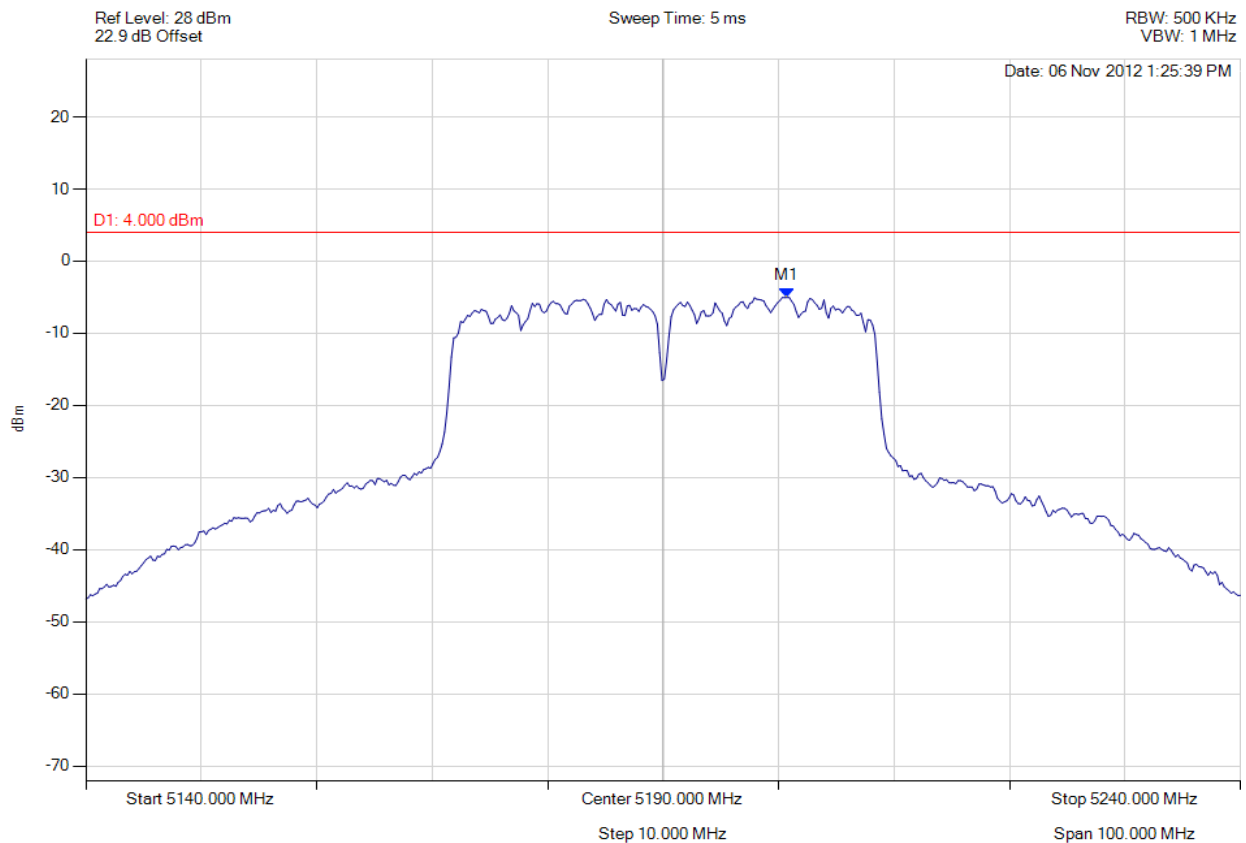


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#### PEAK POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5200.721 MHz : -5.026 dBm	Limit: 8.000 dBm Margin: -13.03 dB

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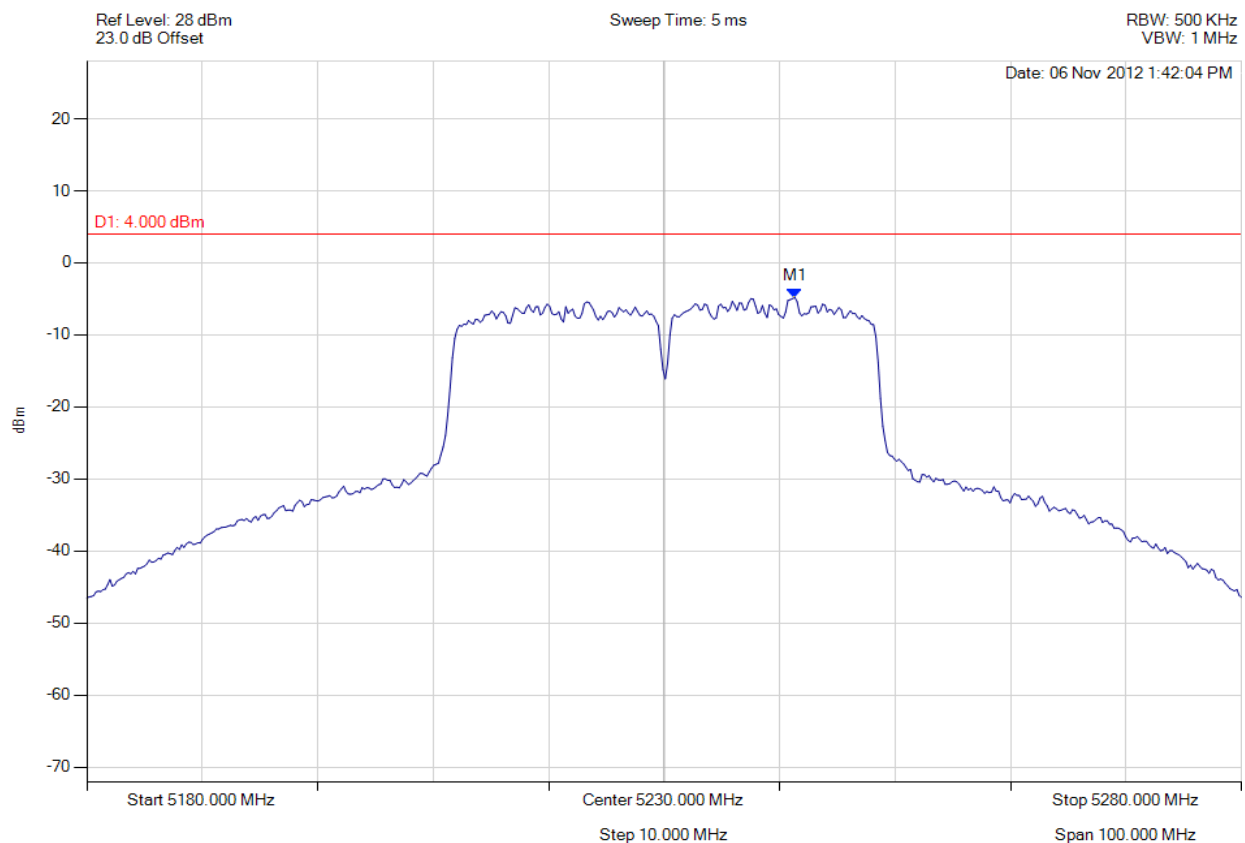


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#### PEAK POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5241.323 MHz : -4.822 dBm	Limit: 8.000 dBm Margin: -12.82 dB

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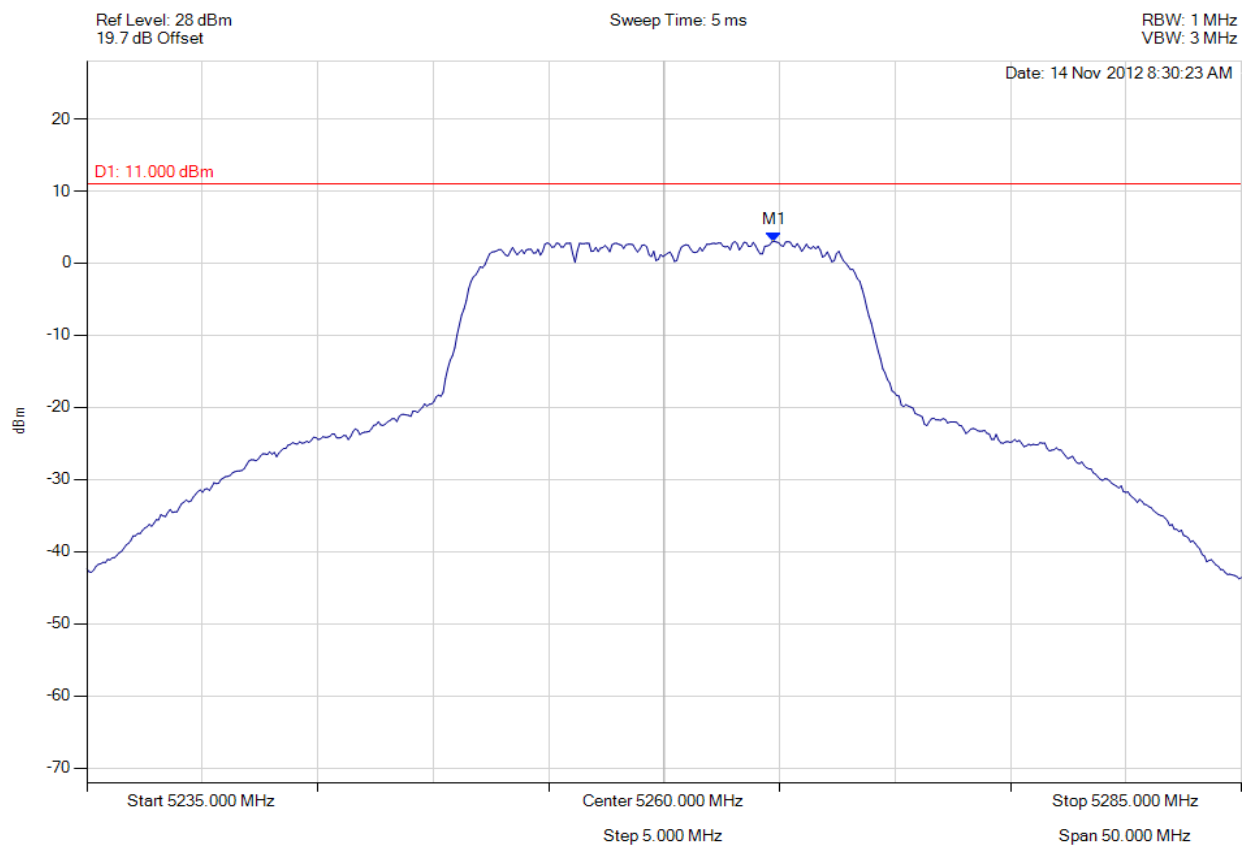


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#### power density

Variant: 802.11a, Channel: 5260.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5264.760 MHz : 3.027 dBm	Limit: 8.000 dBm Margin: -4.97 dB

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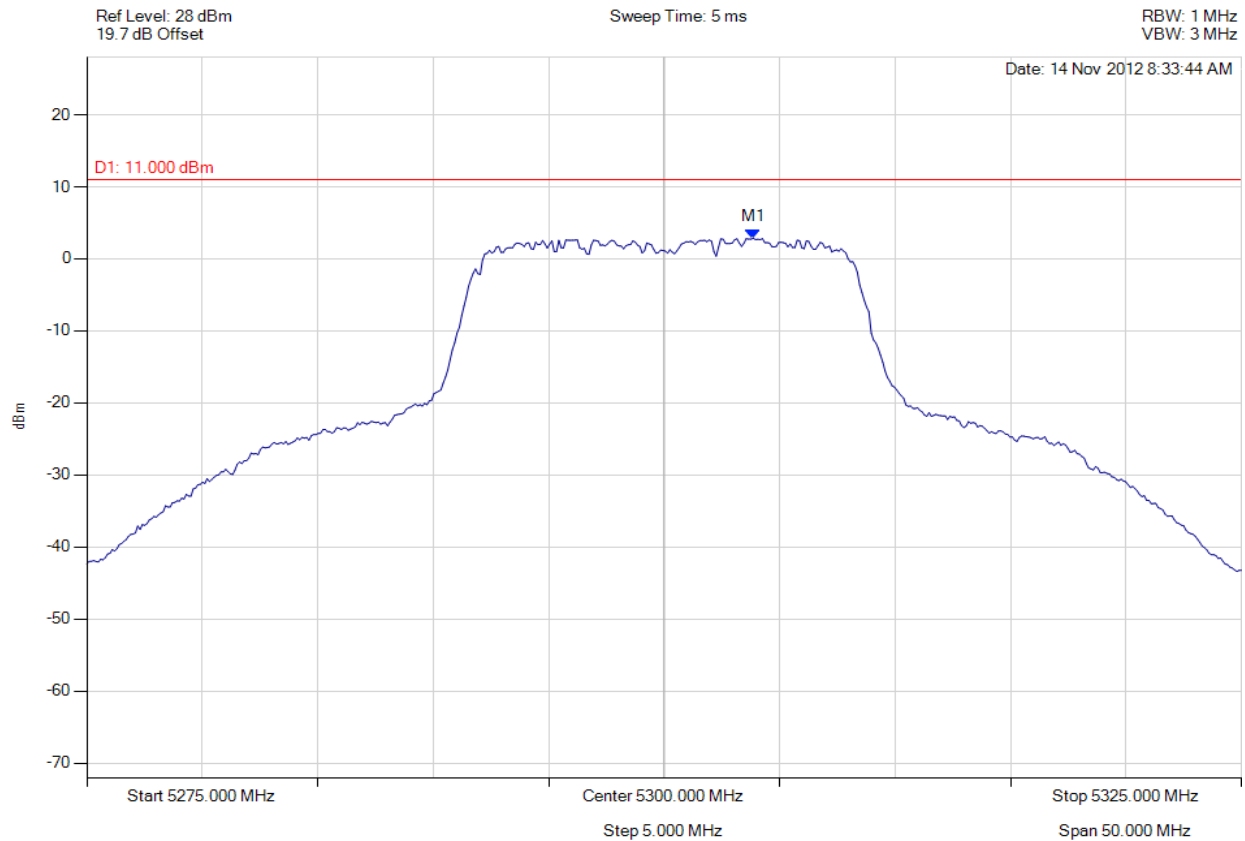


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#### power density

Variant: 802.11a, Channel: 5300.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5303.858 MHz : 2.849 dBm	Limit: 8.000 dBm Margin: -5.15 dB

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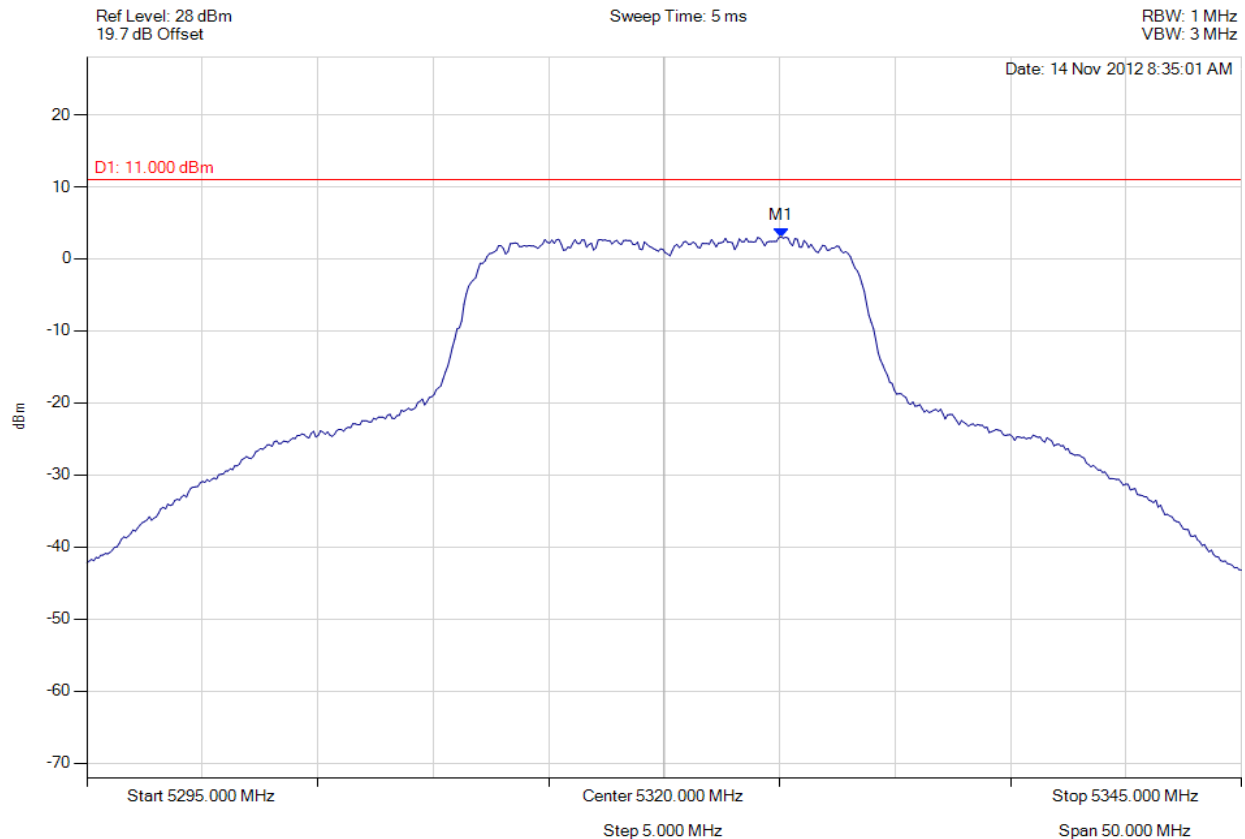


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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**power density**

Variant: 802.11a, Channel: 5320.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5325.060 MHz : 3.026 dBm	Limit: 8.000 dBm Margin: -4.97 dB

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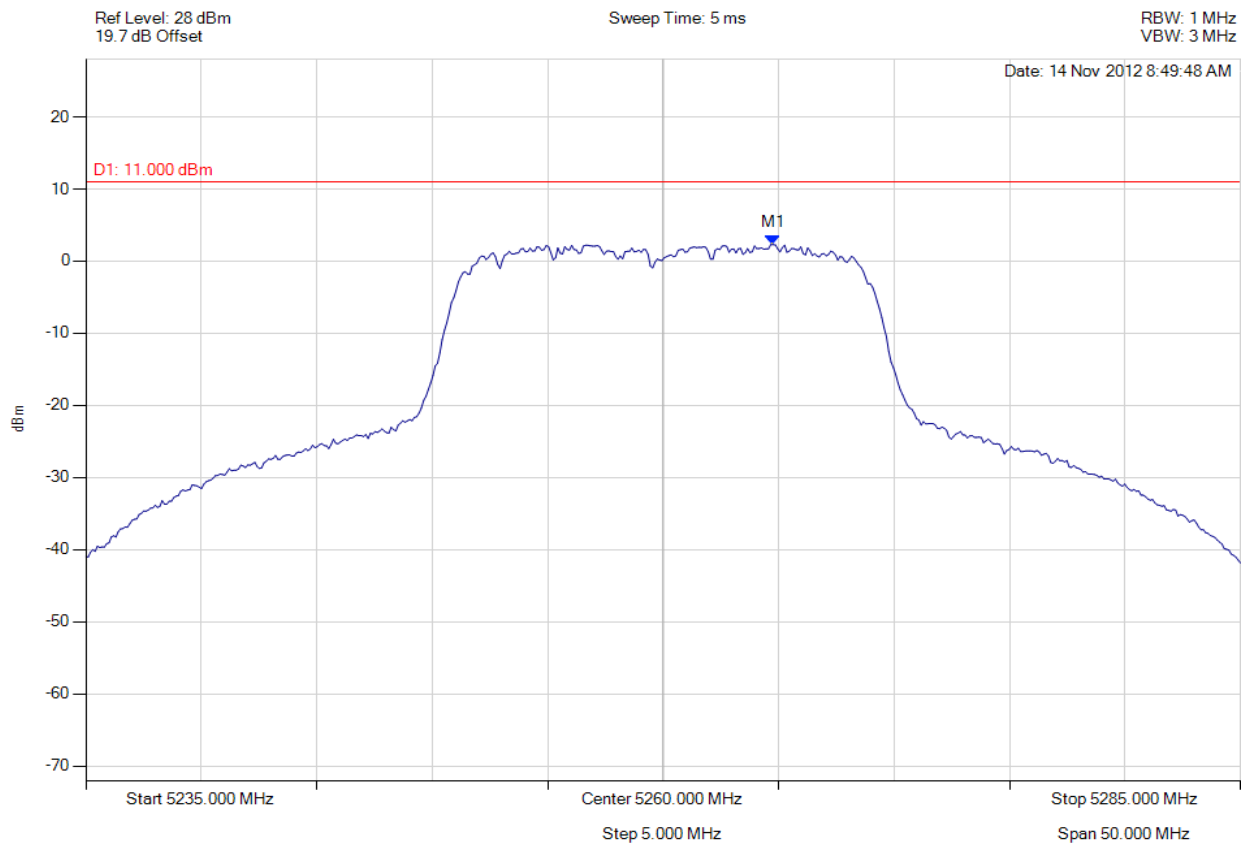


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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**power density**

Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5264.760 MHz : 2.295 dBm	Limit: 8.000 dBm Margin: -5.71 dB

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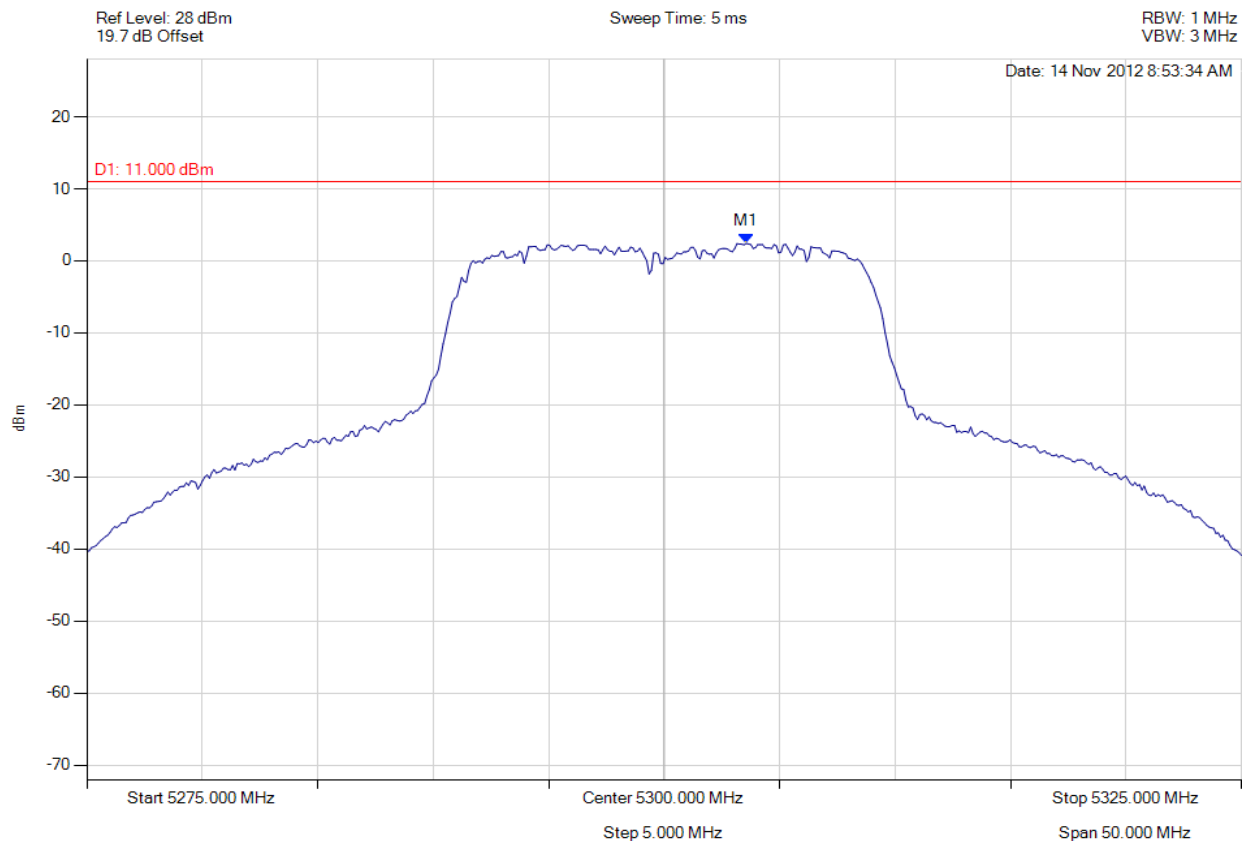


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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**power density**

Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5303.557 MHz : 2.417 dBm	Limit: 8.000 dBm Margin: -5.58 dB

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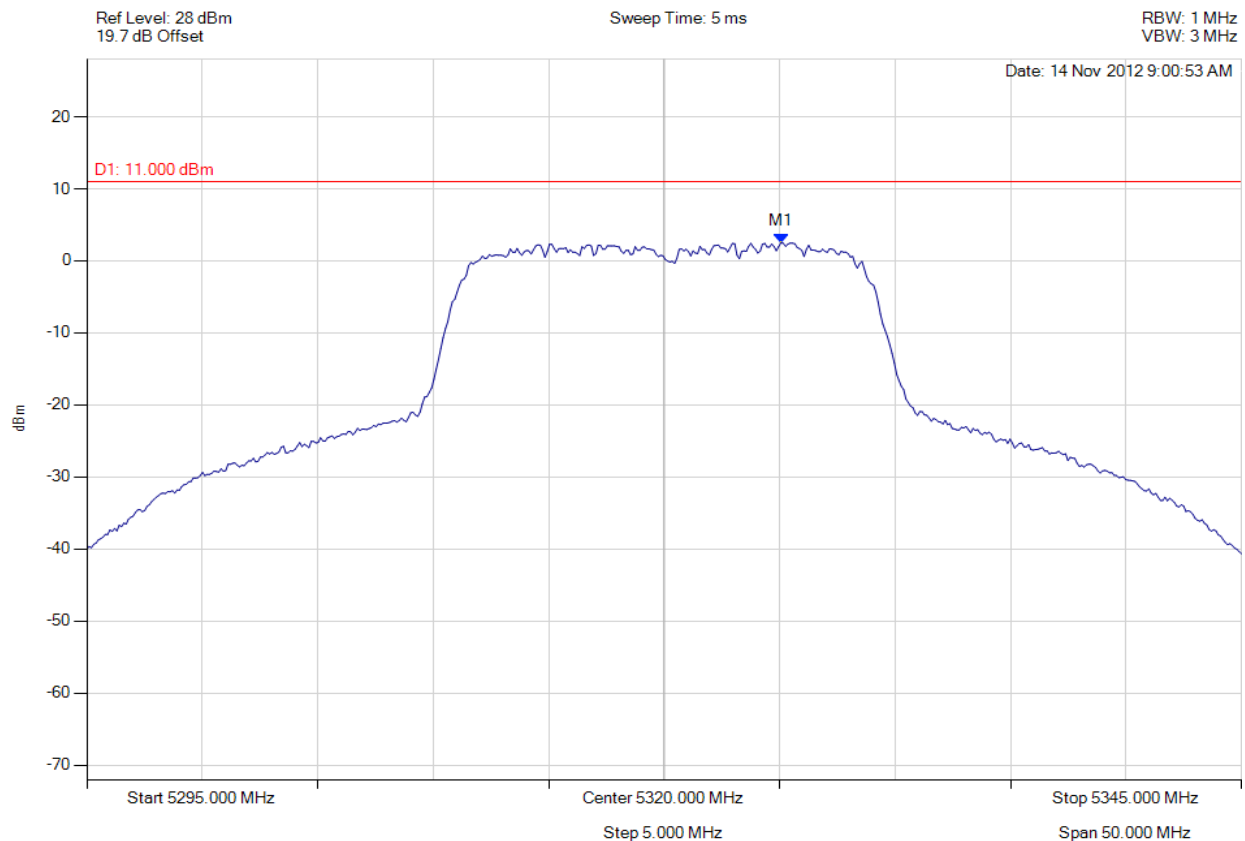


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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**power density**

Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5325.060 MHz : 2.514 dBm	Limit: 8.000 dBm Margin: -5.49 dB

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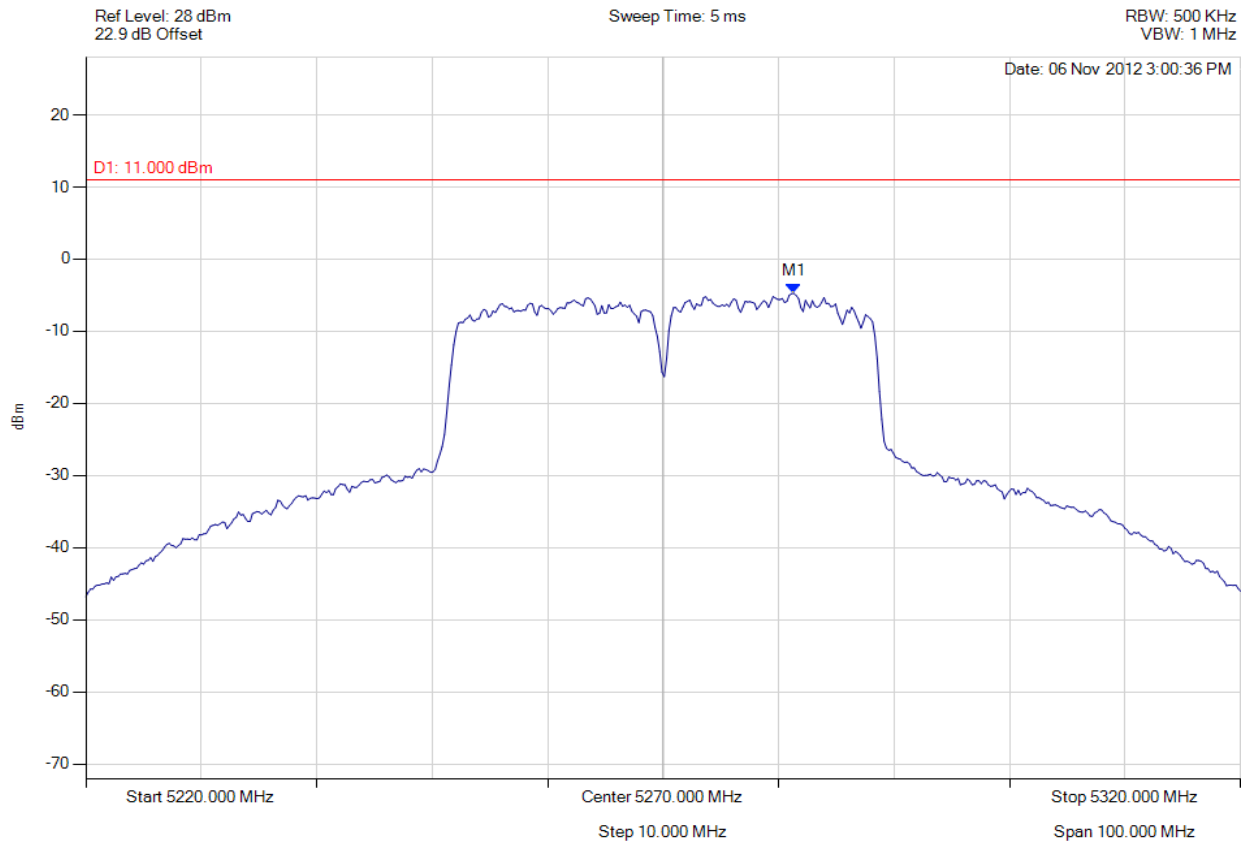


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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#### PEAK POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5281.323 MHz : -4.745 dBm	Limit: 8.000 dBm Margin: -12.75 dB

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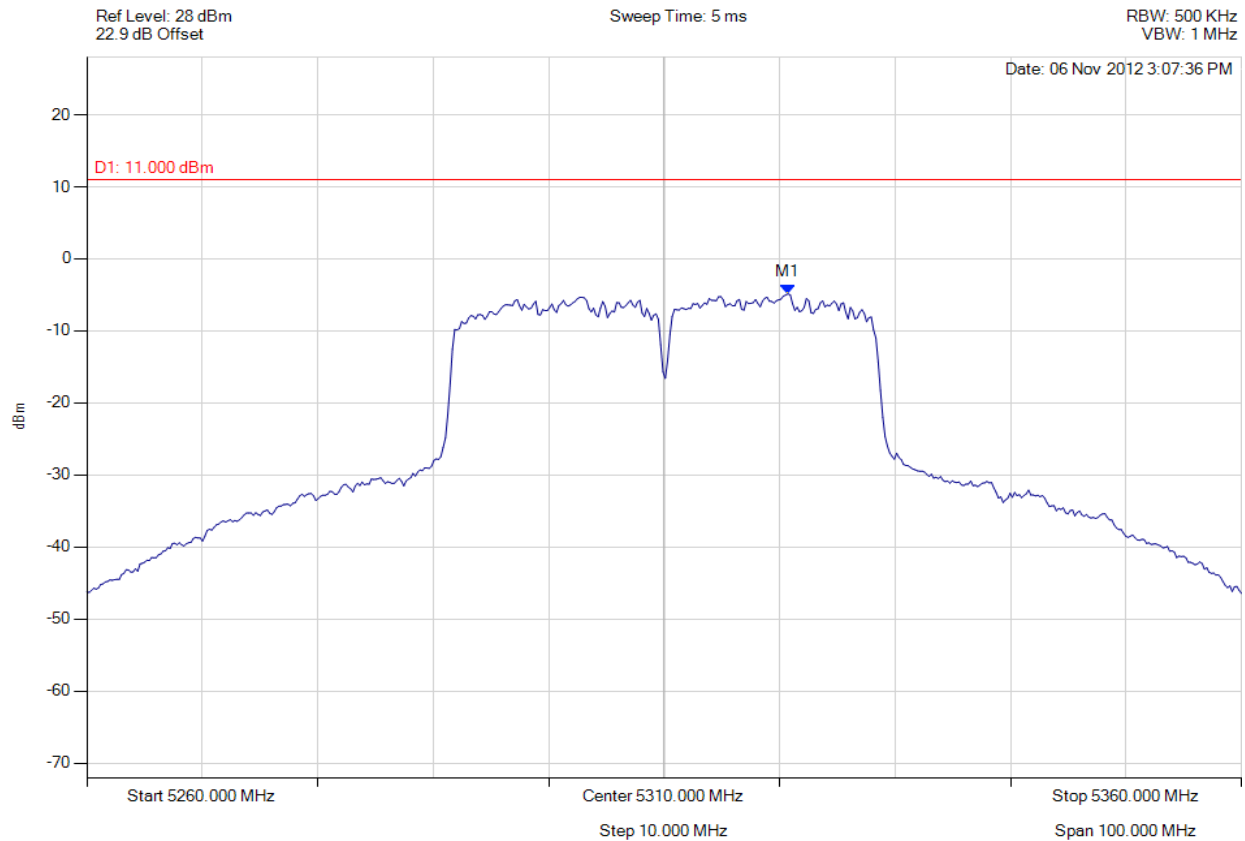


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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#### PEAK POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5320.721 MHz : -4.874 dBm	Limit: 8.000 dBm Margin: -12.87 dB

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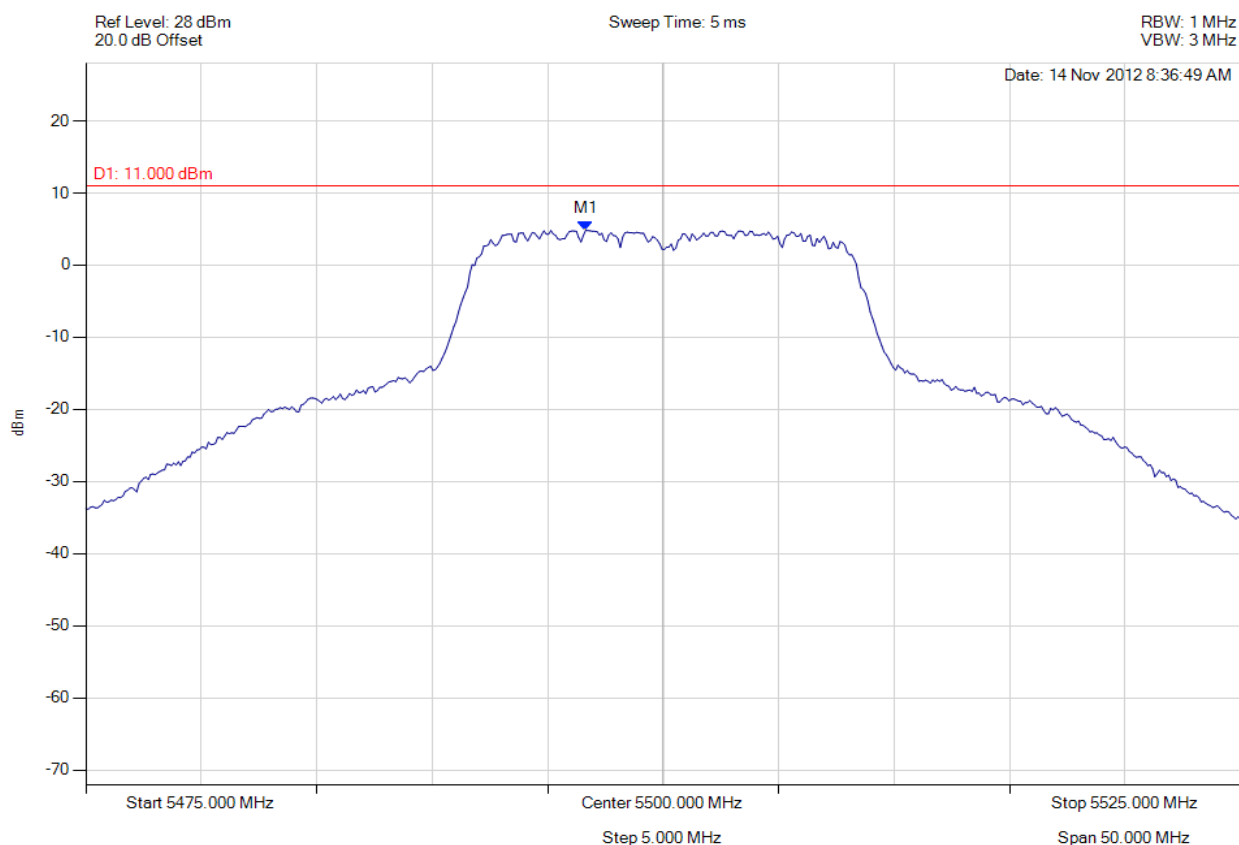


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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#### power density

Variant: 802.11a, Channel: 5500.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5496.643 MHz : 4.827 dBm	Limit: 8.000 dBm Margin: -3.17 dB

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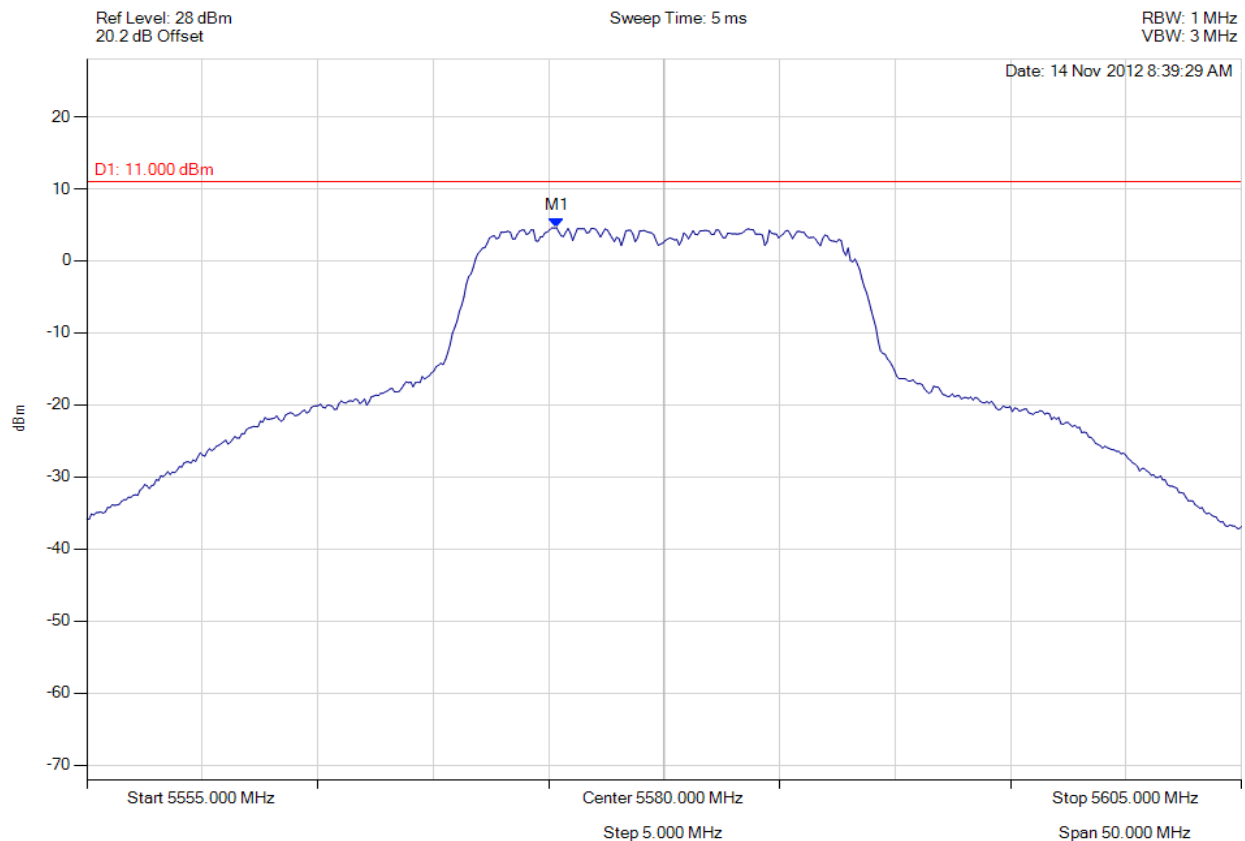


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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**power density**

Variant: 802.11a, Channel: 5580.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5575.341 MHz : 4.599 dBm	Limit: 8.000 dBm Margin: -3.40 dB

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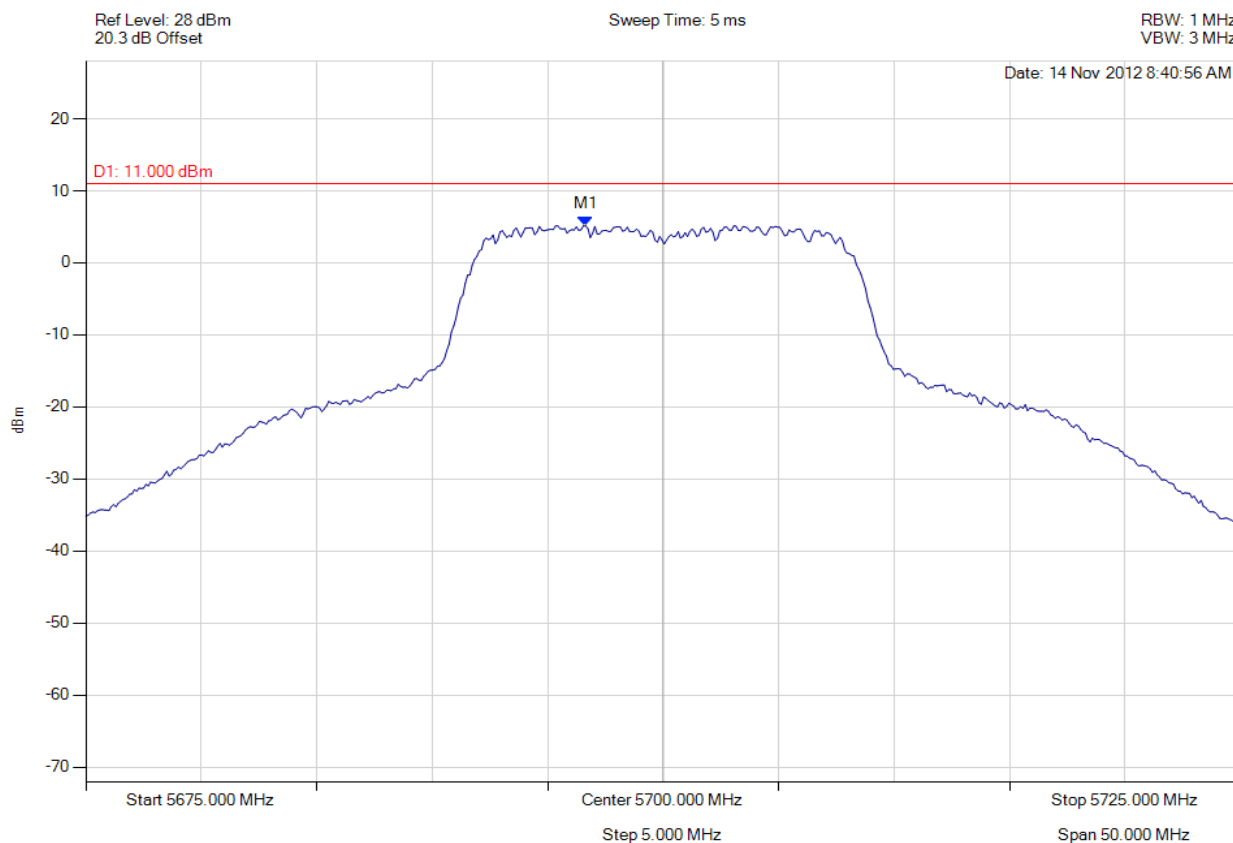


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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#### power density

Variant: 802.11a, Channel: 5700.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5696.643 MHz : 5.139 dBm	Limit: 8.000 dBm Margin: -2.86 dB

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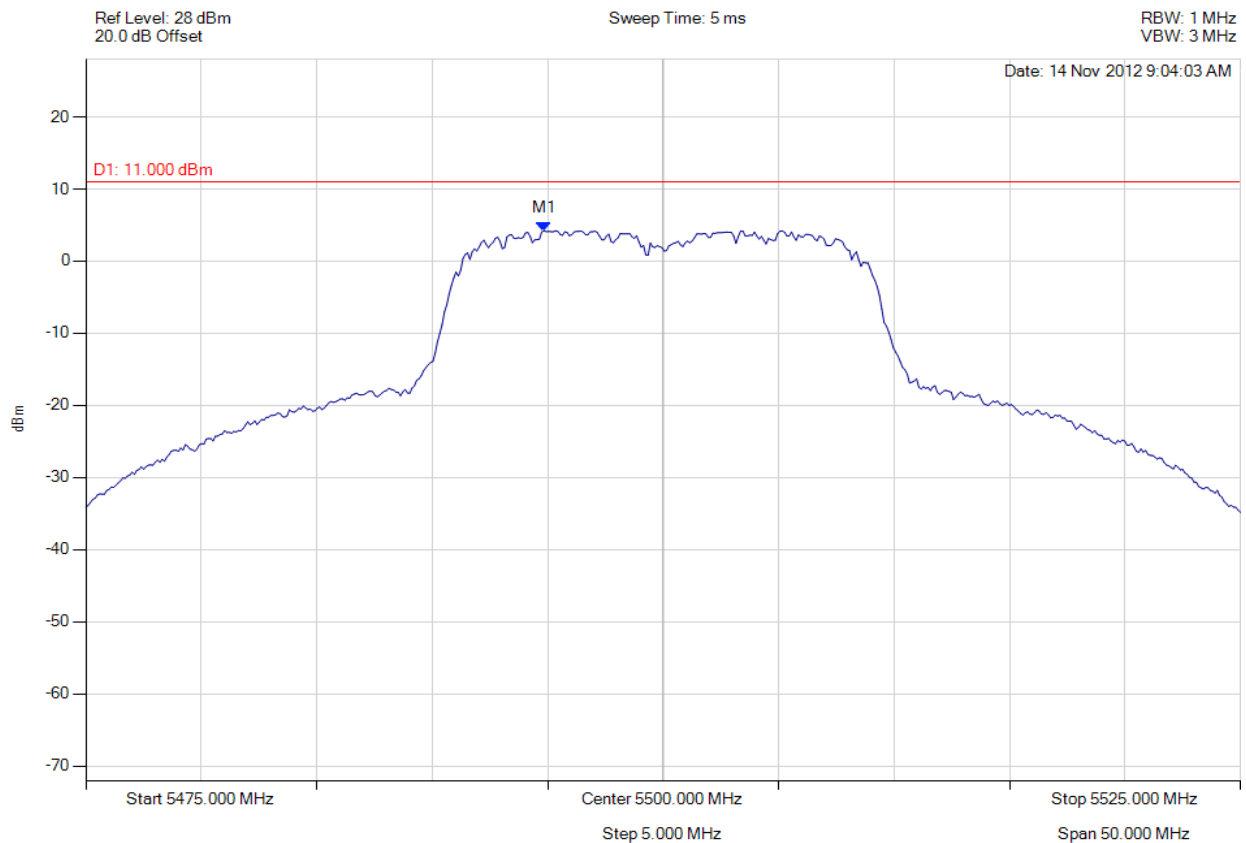


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**power density**

Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5494.840 MHz : 4.219 dBm	Limit: 8.000 dBm Margin: -3.78 dB

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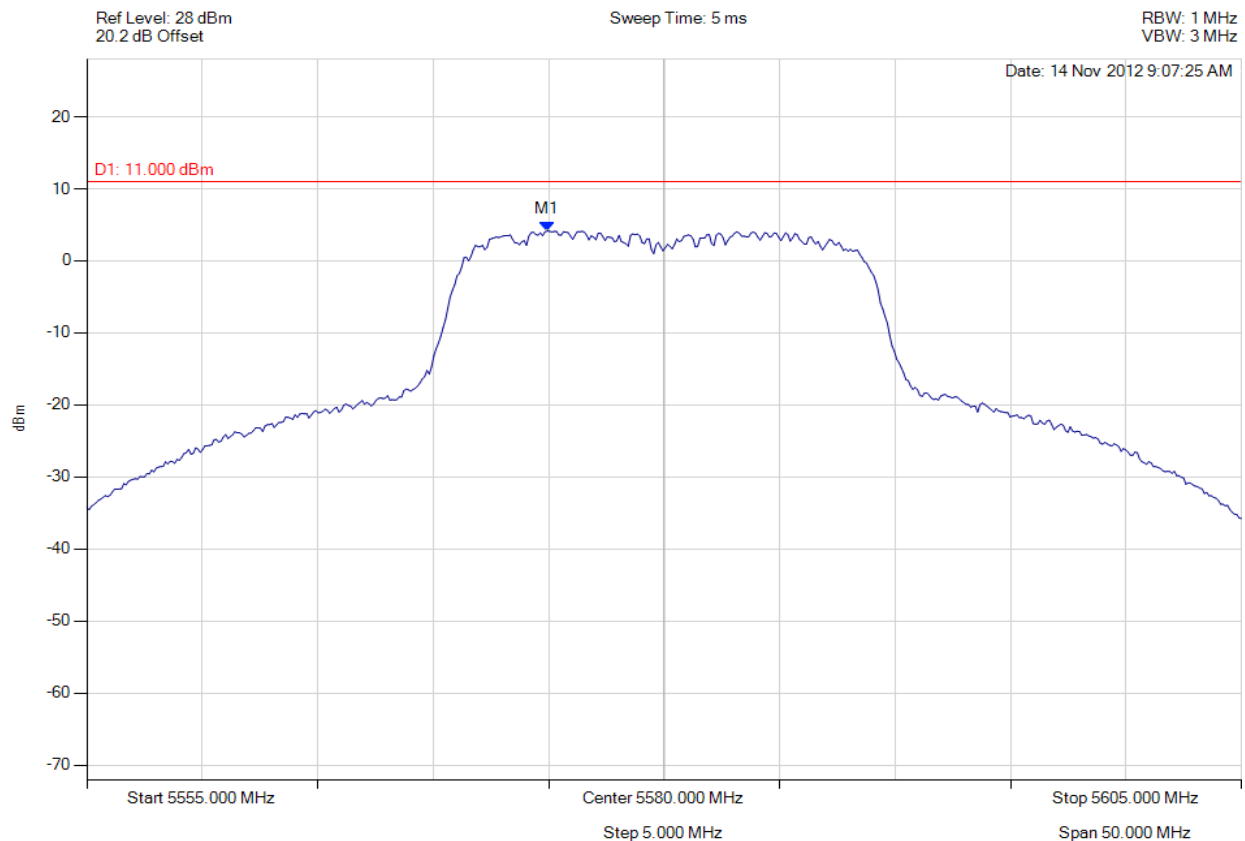


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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**power density**

Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5574.940 MHz : 4.153 dBm	Limit: 8.000 dBm Margin: -3.85 dB

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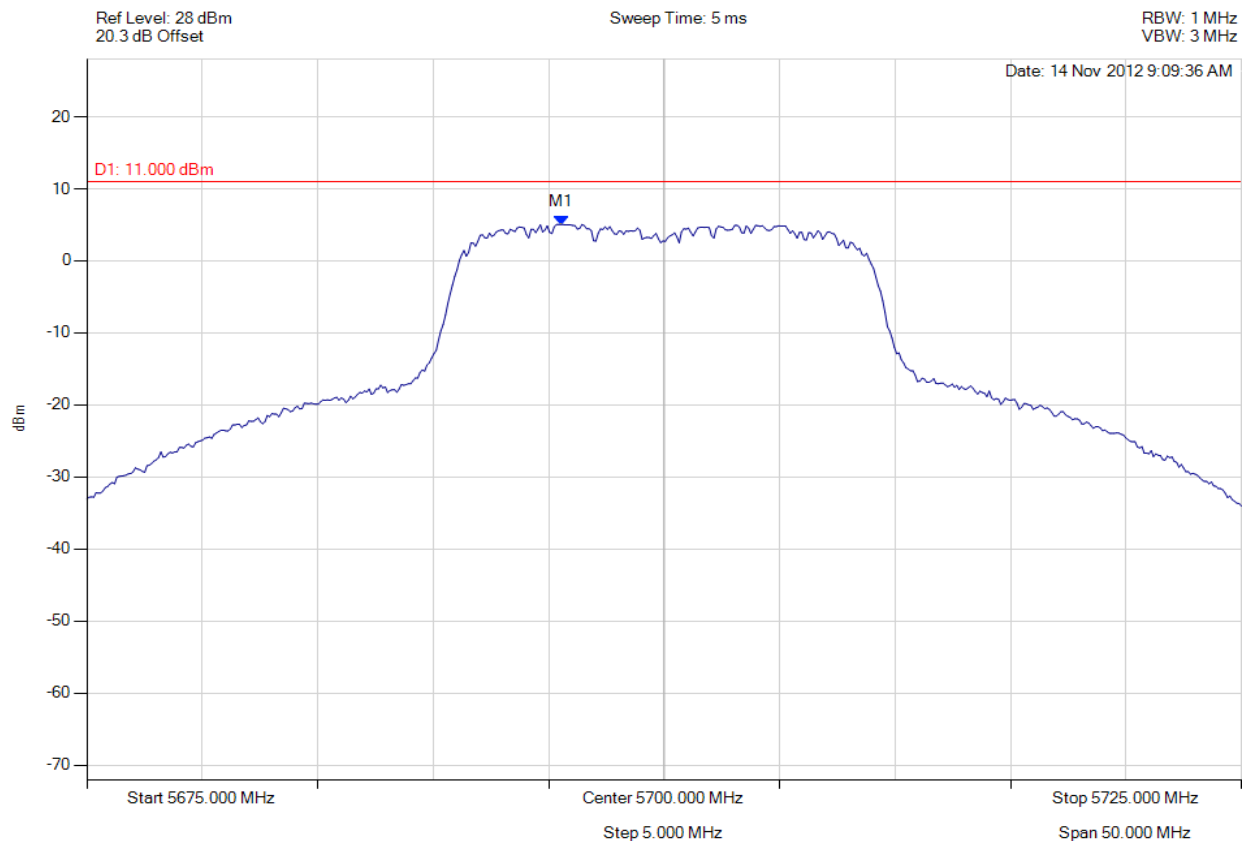


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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#### power density

Variant: 802.11n HT-20, Channel: 5700.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5695.541 MHz : 5.051 dBm	Limit: 8.000 dBm Margin: -2.95 dB

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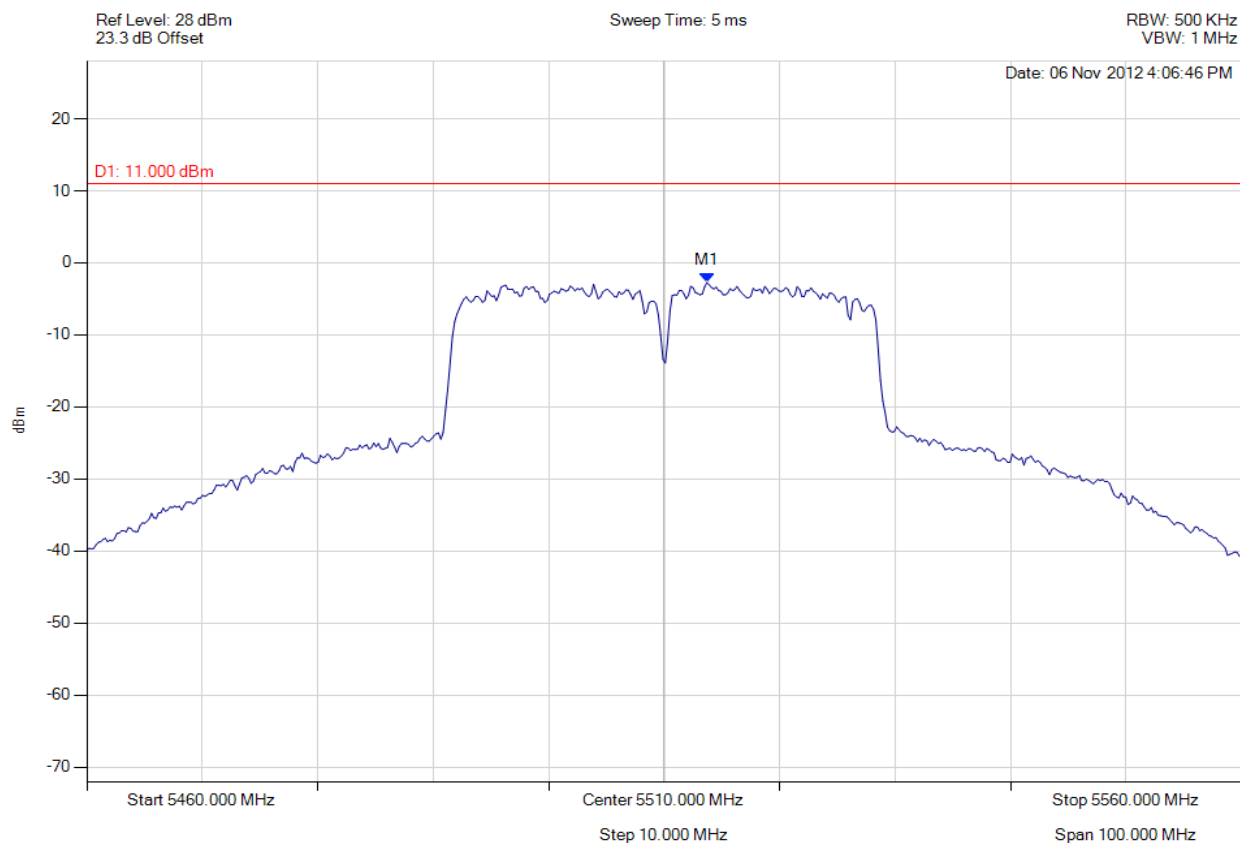


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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#### PEAK POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5513.707 MHz : -2.737 dBm	Limit: 8.000 dBm Margin: -10.74 dB

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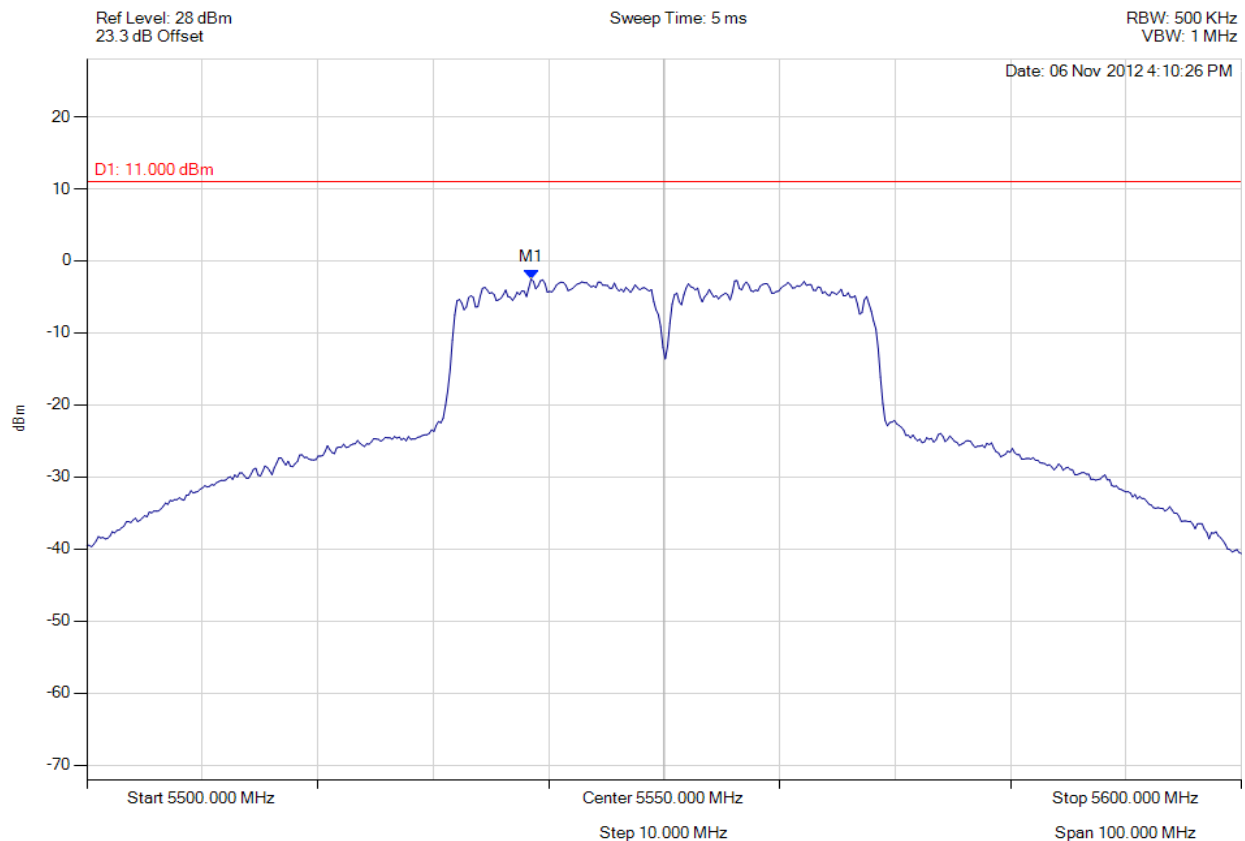


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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#### PEAK POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5538.477 MHz : -2.516 dBm	Limit: 8.000 dBm Margin: -10.52 dB

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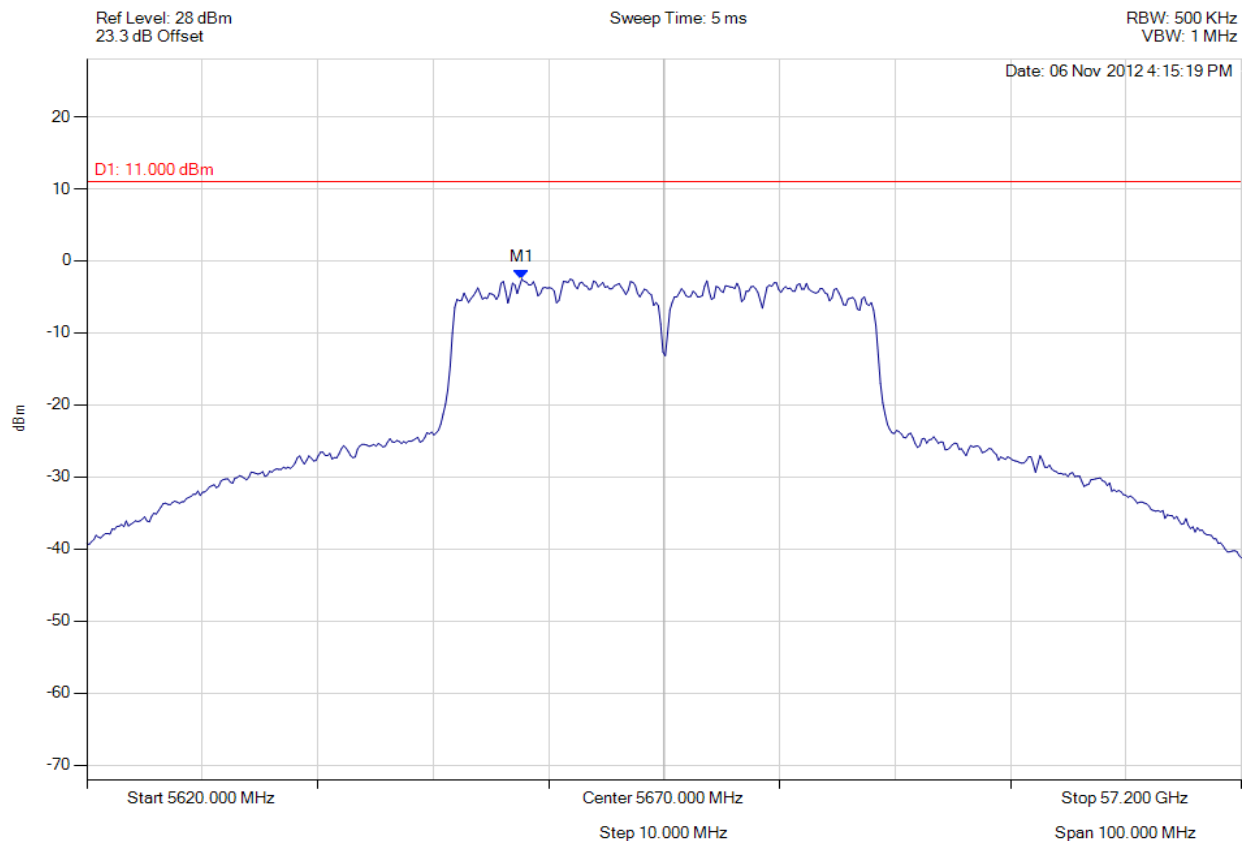


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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#### PEAK POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5670.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5657.675 MHz : -2.532 dBm	Limit: 8.000 dBm Margin: -10.53 dB

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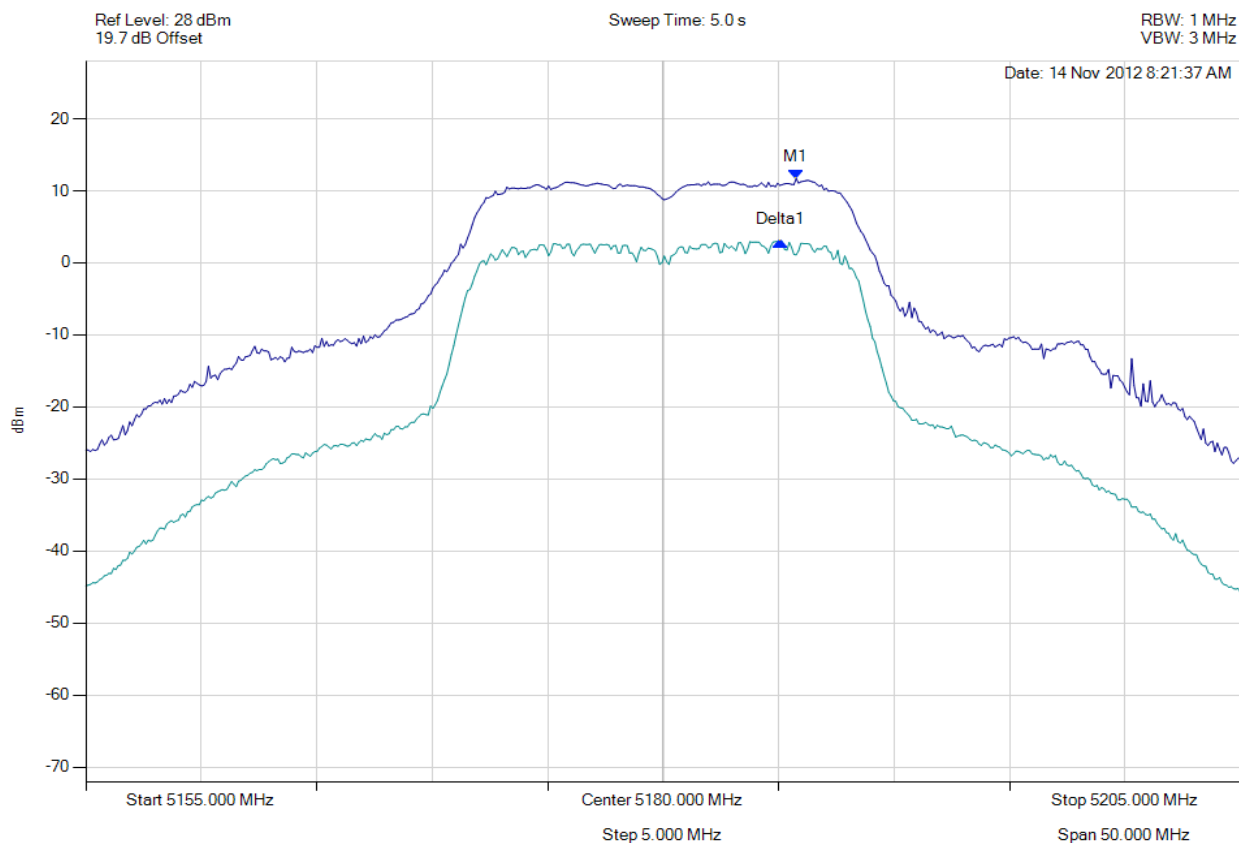
**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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### A.1.3. Peak Excursion Ratio



#### peak excursion

Variant: 802.11a, Channel: 5180.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Sweep Count = 0 RF Atten (dB) = 30 TRACE 1 Detector = MAX PEAK Trace Mode = VIEW TRACE 2 Detector = RMS Trace Mode = VIEW	M1 : 5185.762 MHz : 11.689 dBm Delta1 : -701403 Hz : -8.726 dB	Measured Excursion Ratio: 8.73 dB Limit: -13.0 dB Margin: -4.27 dB

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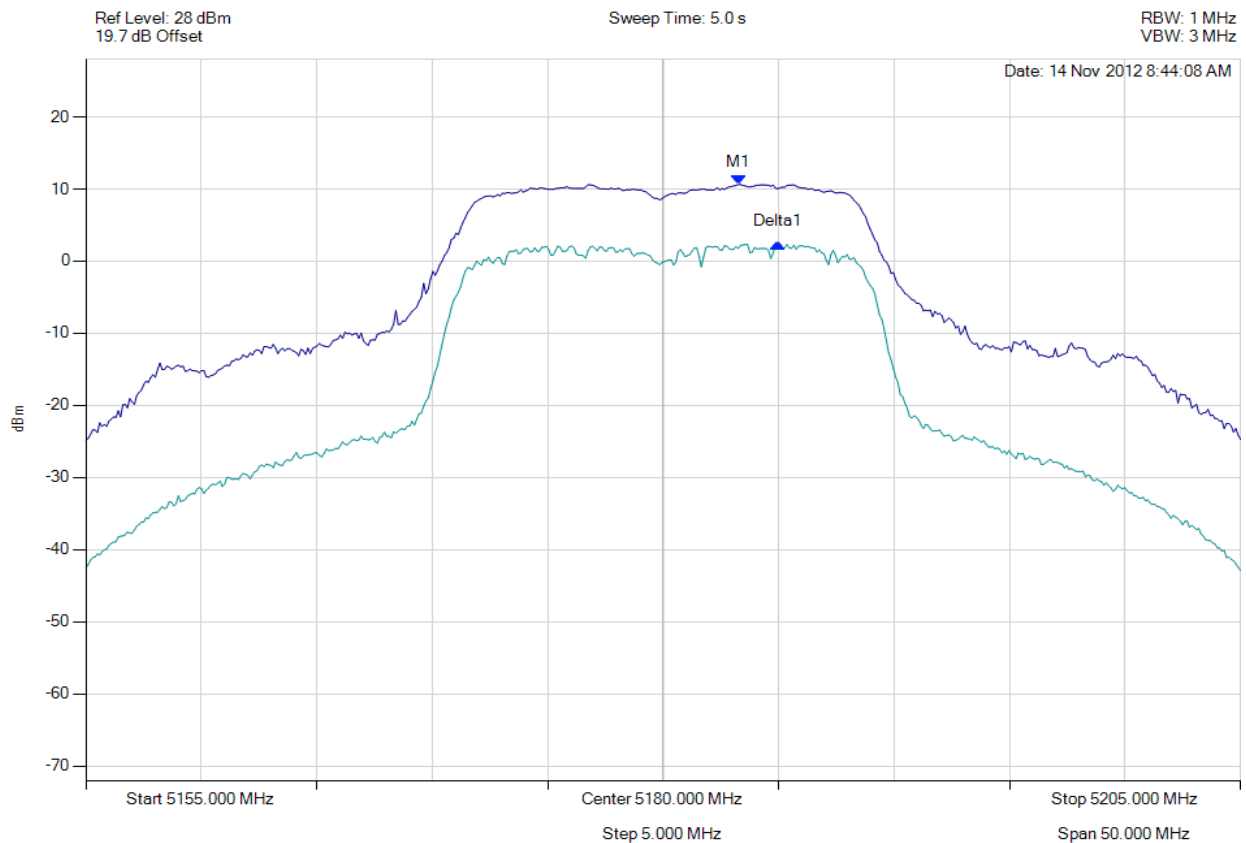


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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#### peak excursion

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Sweep Count = 0 RF Atten (dB) = 30 TRACE 1 Detector = MAX PEAK Trace Mode = VIEW TRACE 2 Detector = RMS Trace Mode = VIEW	M1 : 5183.257 MHz : 10.655 dBm Delta1 : 1.703 MHz : -8.213 dB	Measured Excursion Ratio: 8.21 dB Limit: -13.0 dB Margin: -4.79 dB

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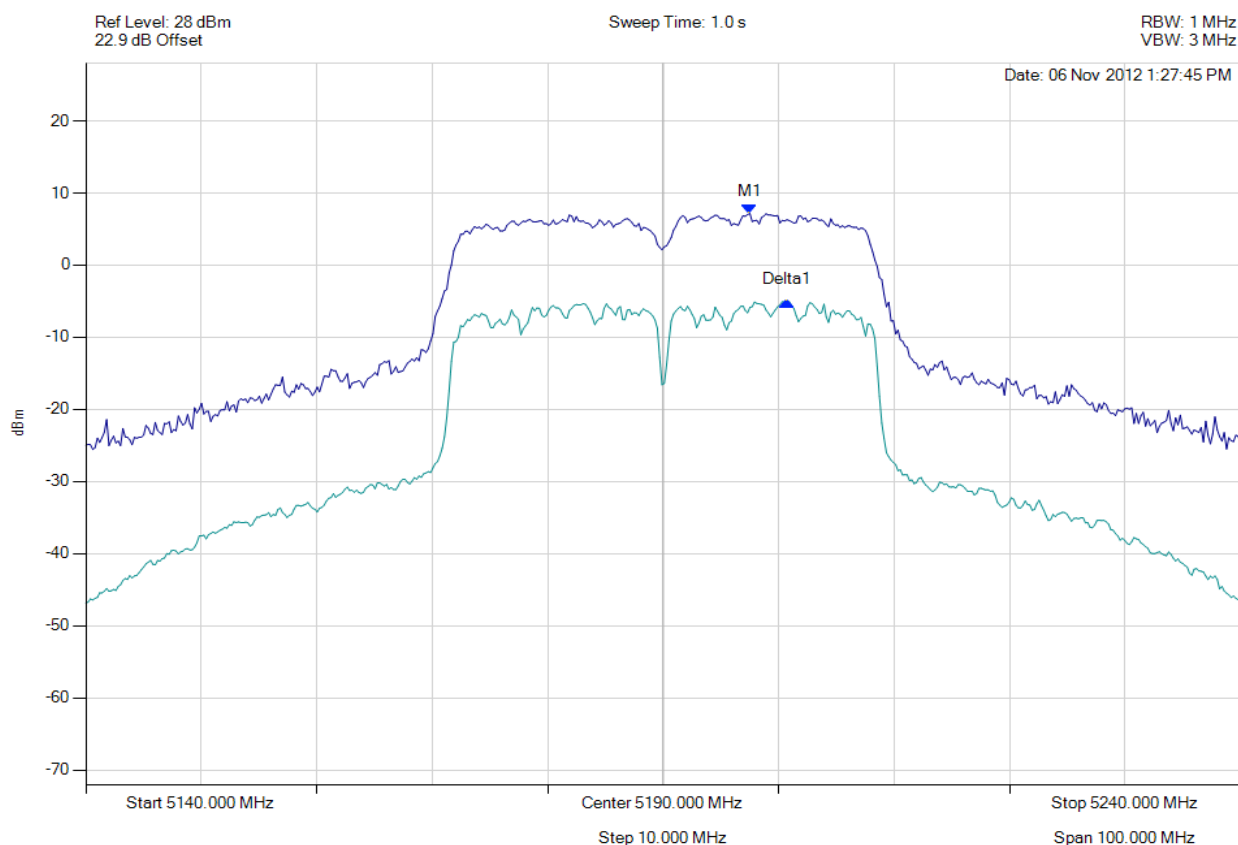


**Title:** Digi ConnectCard for i.MX28 with Atheros AR6233  
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#### PEAK EXCURSION RATIO

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Sweep Count = 0 RF Atten (dB) = 30 TRACE 1 Detector = MAX PEAK Trace Mode = VIEW TRACE 2 Detector = RMS Trace Mode = VIEW	M1 : 5197.515 MHz : 7.145 dBm Delta1 : 5200.721 MHz : -12.203 dB	Measured Excursion Ratio: 12.20 dB Limit: -13.0 dB Margin: -0.80 dB

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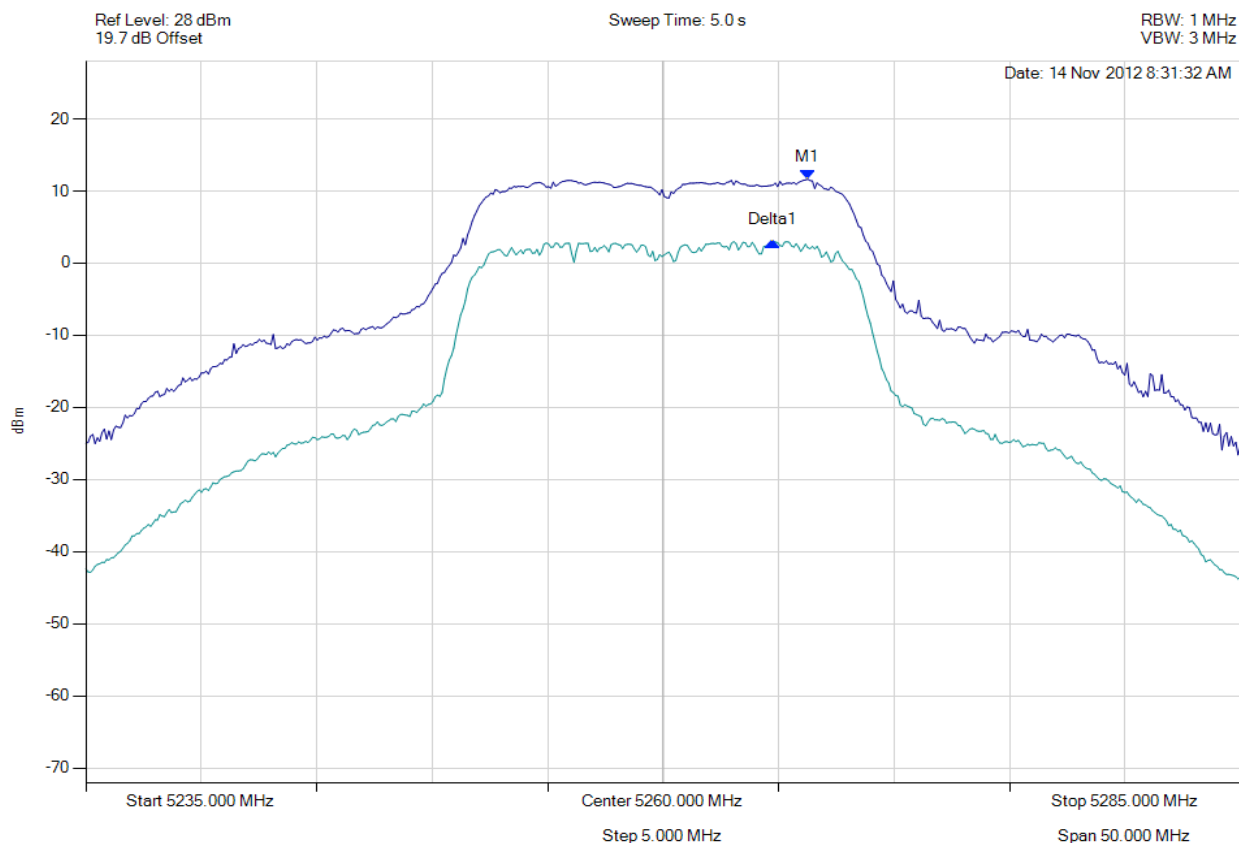


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# peak excursion

Variant: 802.11a, Channel: 5260.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Sweep Count = 0 RF Atten (dB) = 30 TRACE 1 Detector = MAX PEAK Trace Mode = VIEW TRACE 2 Detector = RMS Trace Mode = VIEW	M1 : 5266.263 MHz : 11.628 dBm Delta1 : -1503006 Hz : -8.609 dB	Measured Excursion Ratio: 8.61 dB Limit: -13.0 dB Margin: -4.39 dB

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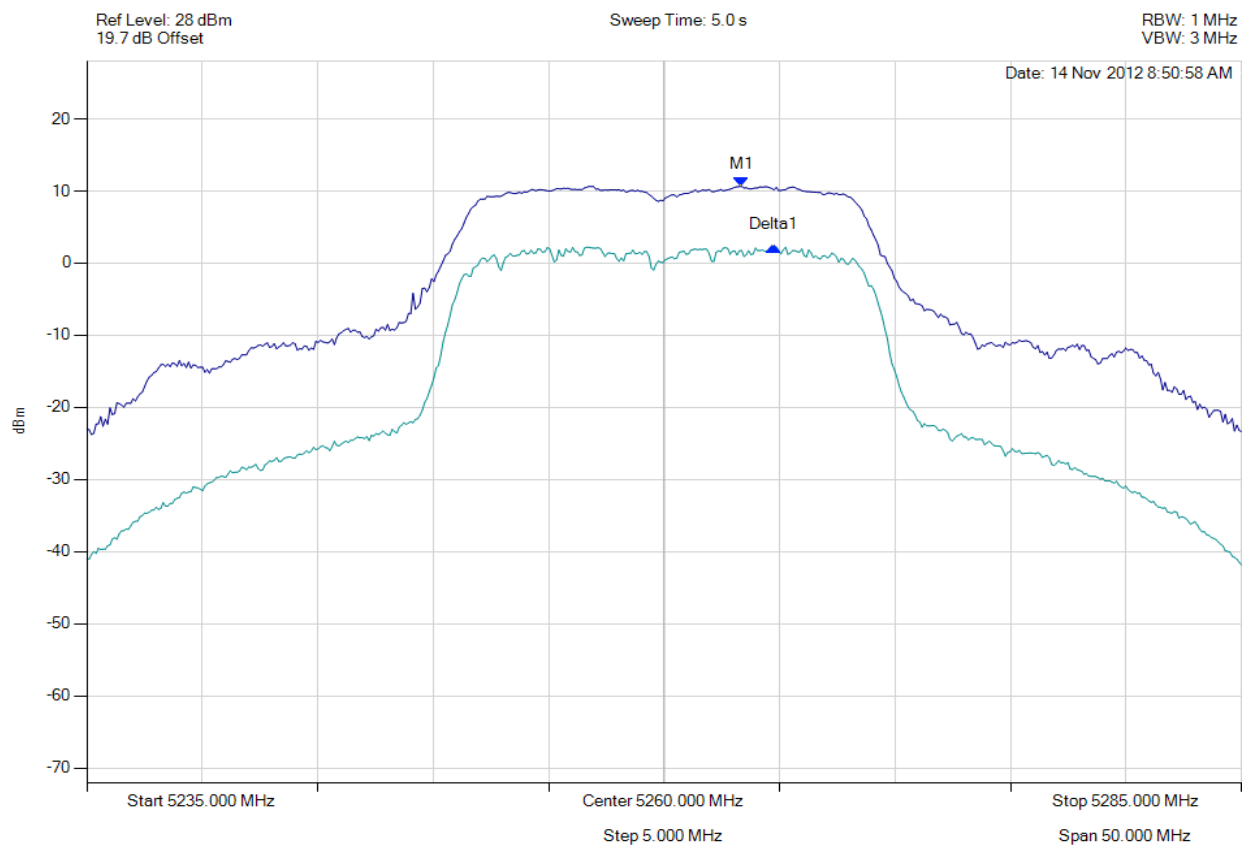


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#### peak excursion

Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Sweep Count = 0 RF Atten (dB) = 30 TRACE 1 Detector = MAX PEAK Trace Mode = VIEW TRACE 2 Detector = RMS Trace Mode = VIEW	M1 : 5263.357 MHz : 10.650 dBm Delta1 : 1.403 MHz : -8.363 dB	Measured Excursion Ratio: 8.36 dB Limit: -13.0 dB Margin: -4.64 dB

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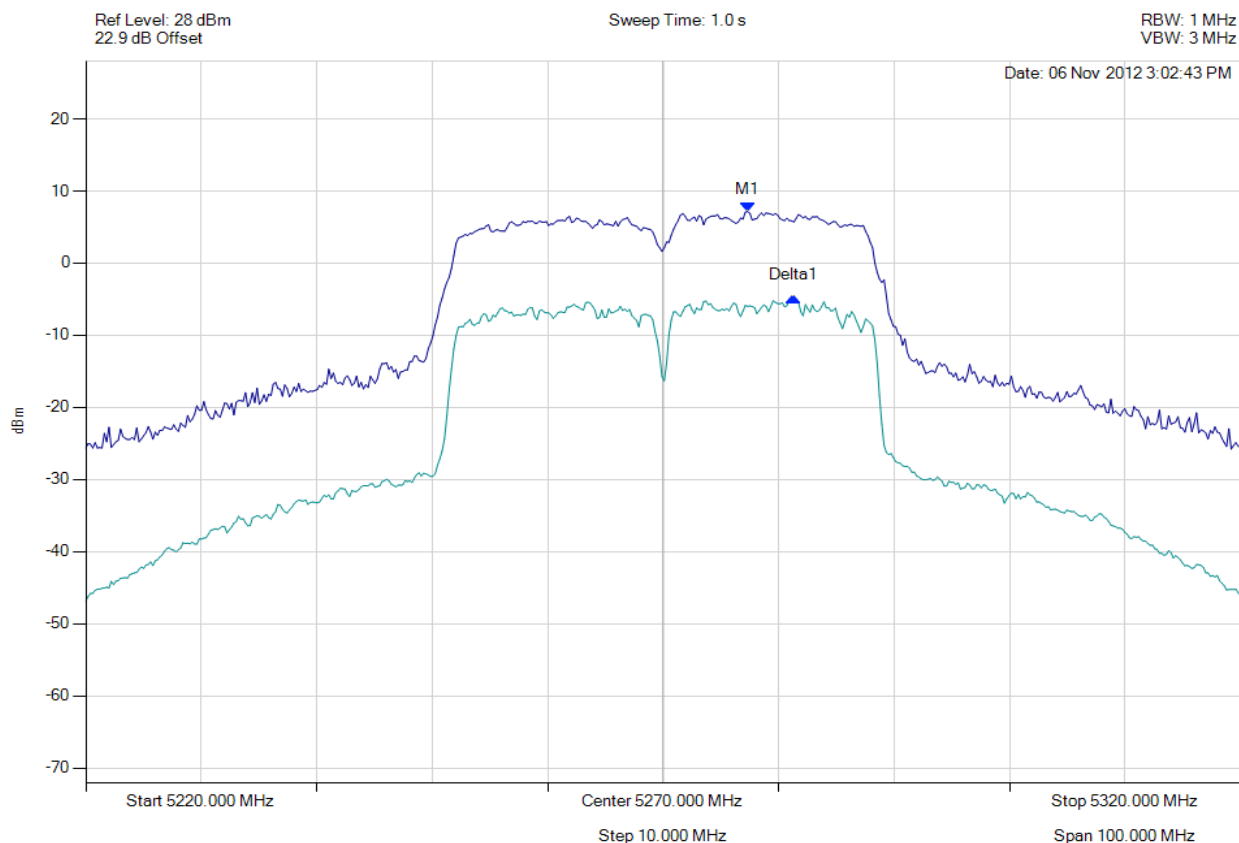


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#### PEAK EXCURSION RATIO

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Sweep Count = 0 RF Atten (dB) = 30 TRACE 1 Detector = MAX PEAK Trace Mode = VIEW TRACE 2 Detector = RMS Trace Mode = VIEW	M1 : 5277.315 MHz : 7.156 dBm Delta1 : 4.008 MHz : -11.933 dB	Measured Excursion Ratio: 11.93 dB Limit: -13.0 dB Margin: -1.07 dB

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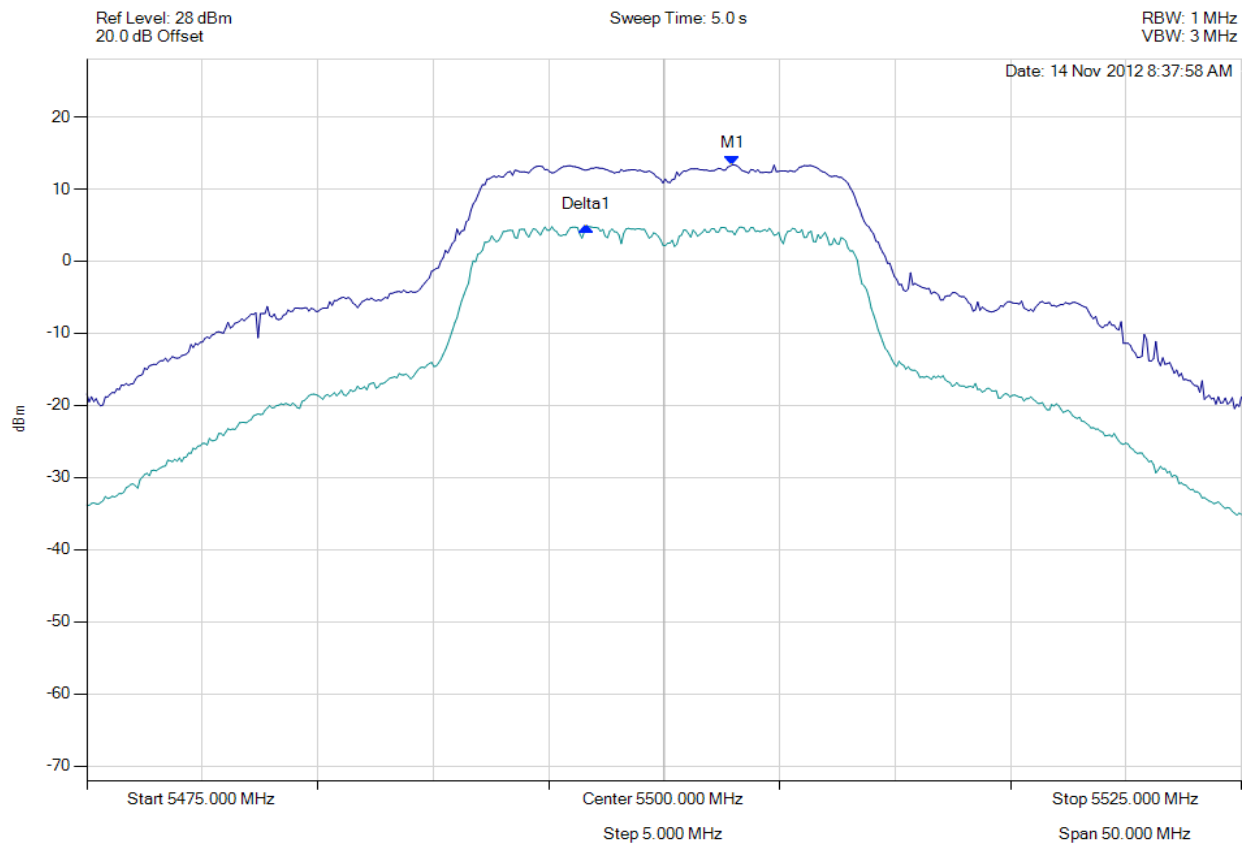


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#### peak excursion

Variant: 802.11a, Channel: 5500.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Sweep Count = 0 RF Atten (dB) = 30 TRACE 1 Detector = MAX PEAK Trace Mode = VIEW TRACE 2 Detector = RMS Trace Mode = VIEW	M1 : 5502.956 MHz : 13.362 dBm Delta1 : -6312625 Hz : -8.558 dB	Measured Excursion Ratio: 8.56 dB Limit: -13.0 dB Margin: -4.44 dB

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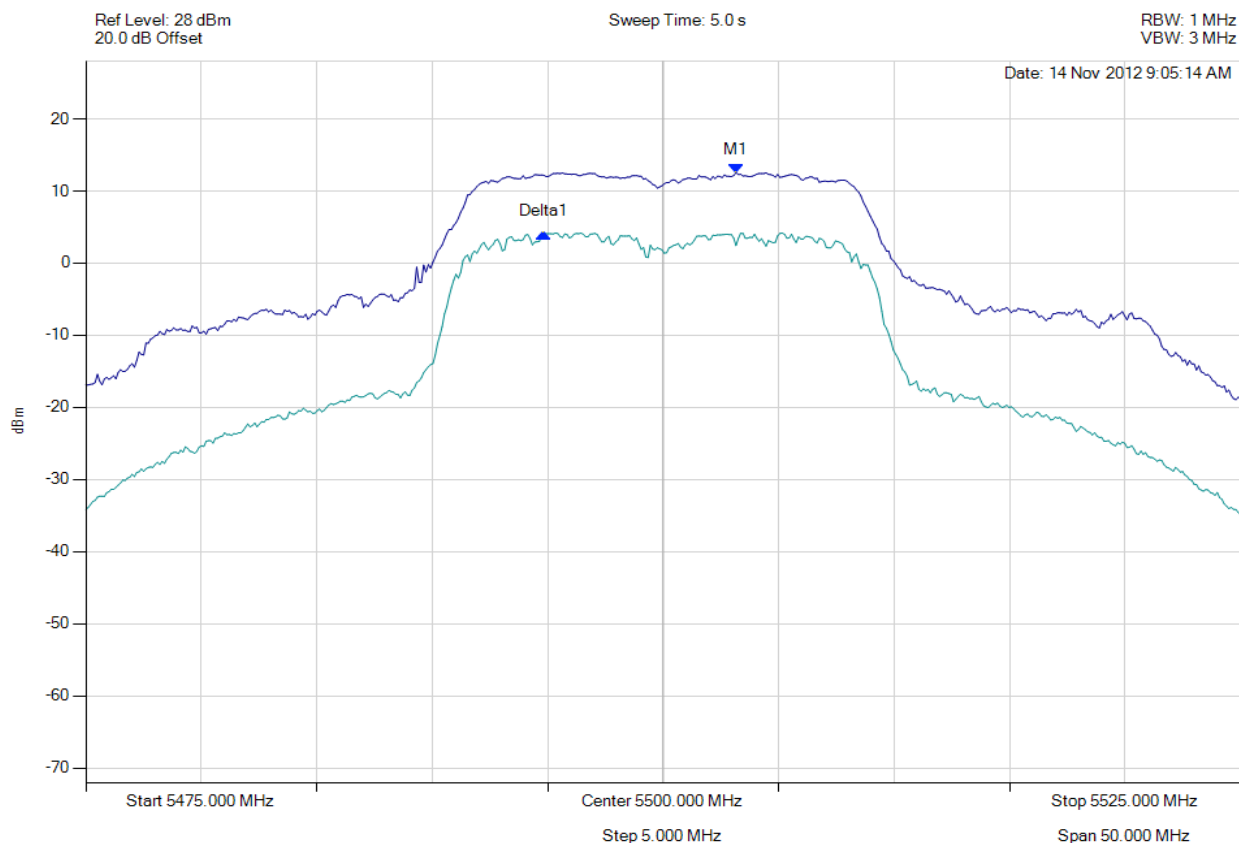


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# peak excursion

Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain a, Temp: Ambient, Voltage: 5.00V



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Sweep Count = 0 RF Atten (dB) = 30 TRACE 1 Detector = MAX PEAK Trace Mode = VIEW TRACE 2 Detector = RMS Trace Mode = VIEW	M1 : 5503.156 MHz : 12.557 dBm Delta1 : -8316633 Hz : -8.361 dB	Measured Excursion Ratio: 8.36 dB Limit: -13.0 dB Margin: -4.64 dB

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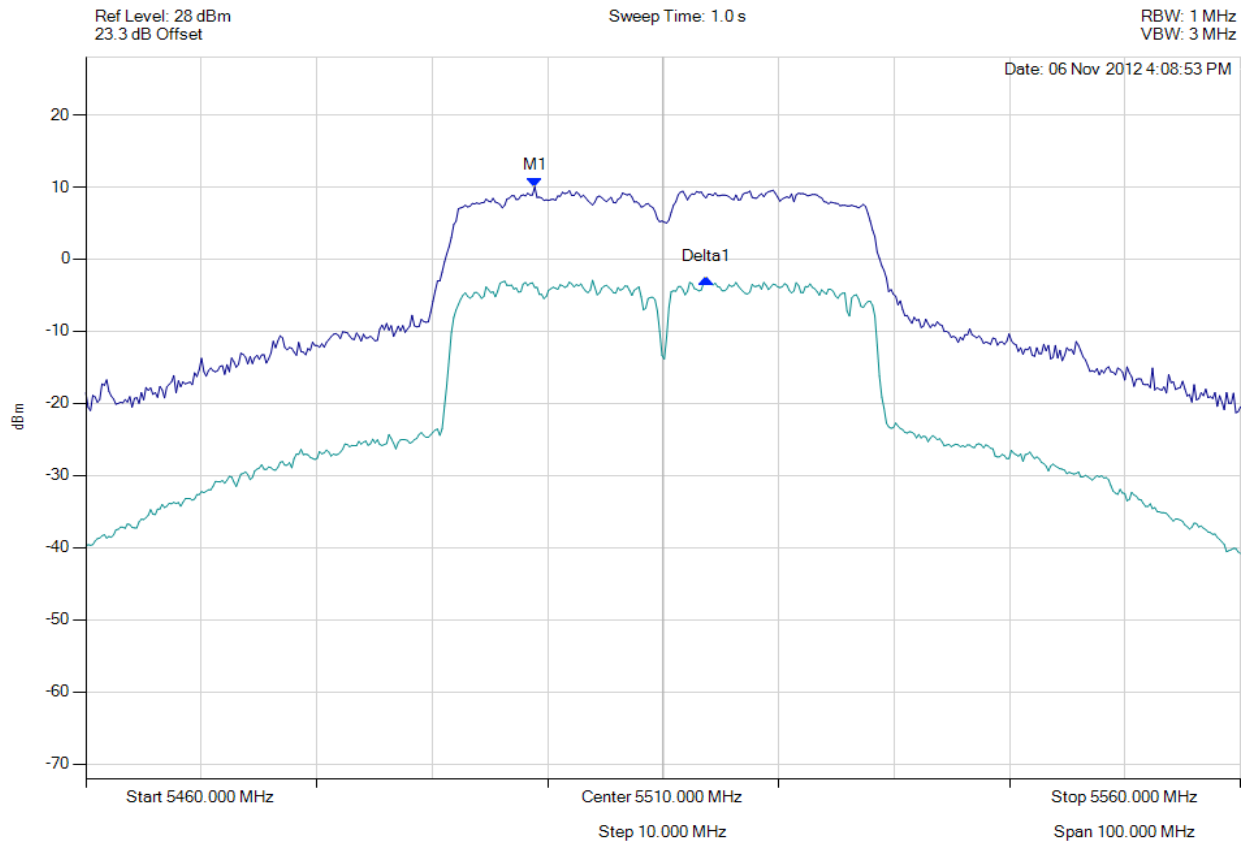


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#### PEAK EXCURSION RATIO

Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain a, Temp: Ambient, Voltage: 5 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Sweep Count = 0 RF Atten (dB) = 30 TRACE 1 Detector = MAX PEAK Trace Mode = VIEW TRACE 2 Detector = RMS Trace Mode = VIEW	M1 : 5498.878 MHz : 10.017 dBm Delta1 : 5483.0 MHz : -12.713 dB	Measured Excursion Ratio: 12.71 dB Limit: -13.0 dB Margin: -0.29 dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



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