



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX N40 Mode/ CH38, CH46 – ANT 2 For 3TX		

Channel of Worst Data: CH38			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5147.60	-35.50	5371.20	-42.60
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

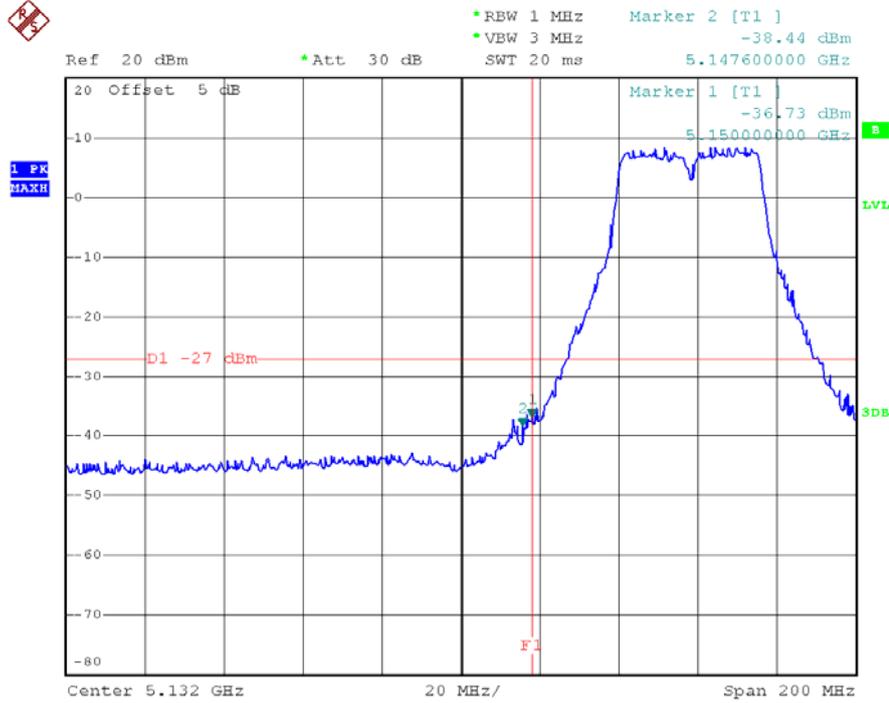


EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX N40 Mode/ CH38, CH46 – ANT 3 For 3TX		

Channel of Worst Data: CH38			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5150.00	-36.73	5371.20	-43.24
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

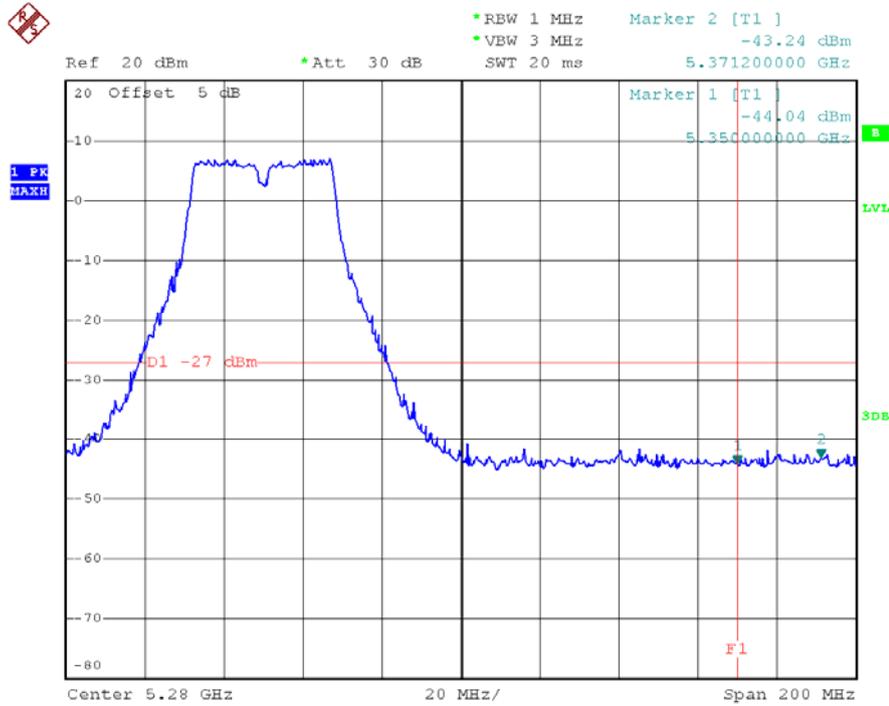


TX mode CH38



Date: 12.OCT.2012 02:54:00

TX mode CH46



Date: 12.OCT.2012 02:56:54

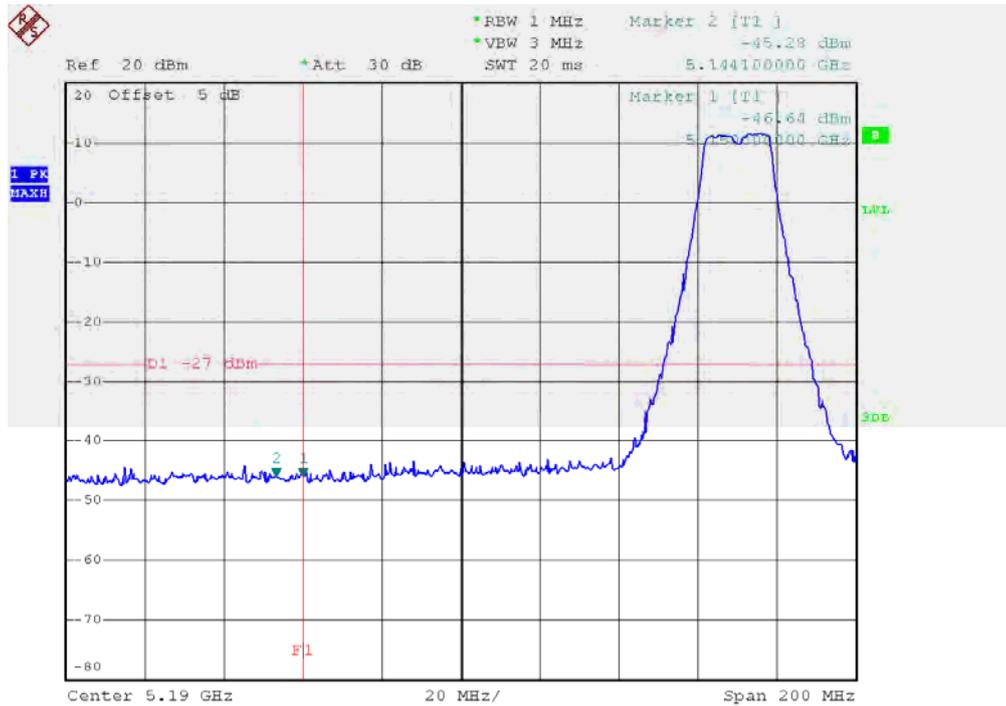


EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX A Mode/ CH52, CH56 , CH60 – ANT 1 For 3TX		

Channel of Worst Data: CH52			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5144.10	-45.28	5361.60	-40.74
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

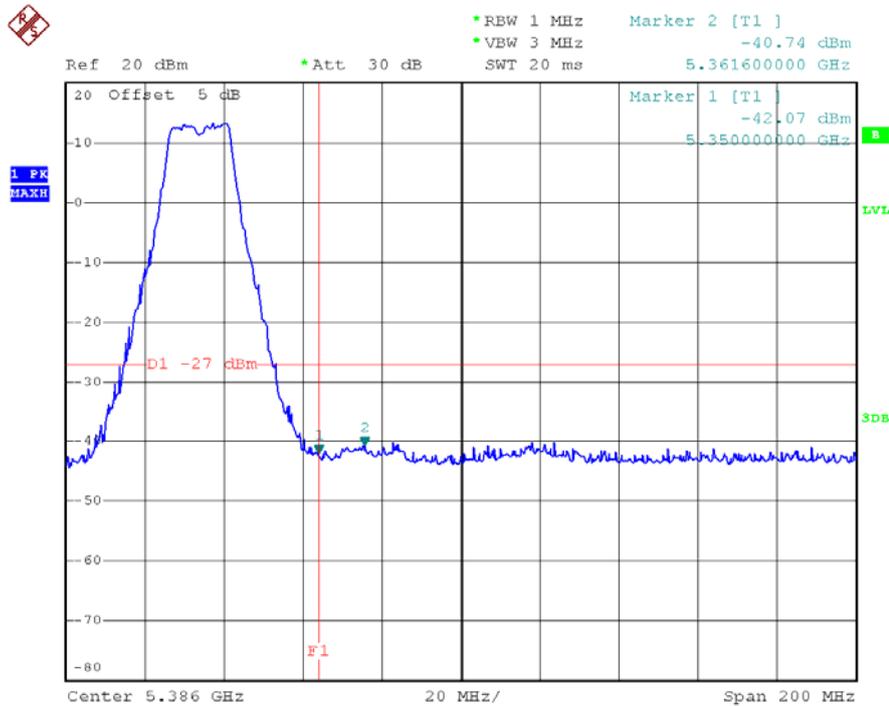


TX mode CH52



Date: 12.OCT.2012 02:57:12

TX mode CH64



Date: 12.OCT.2012 02:16:08

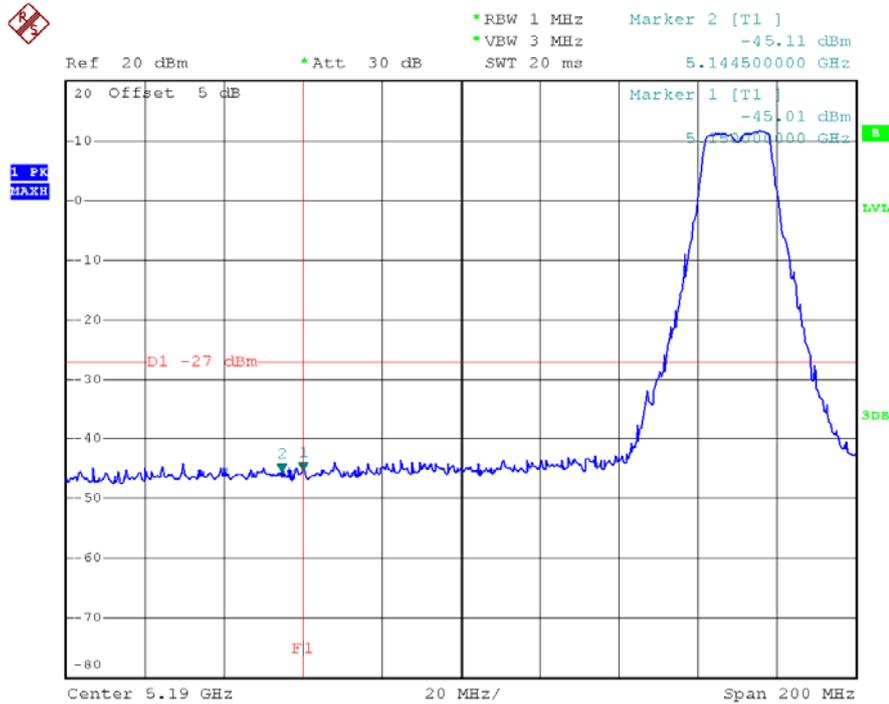


EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX A Mode/ CH52, CH56 , CH60 – ANT 2 For 3TX		

Channel of Worst Data: CH52			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5150.00	-45.01	5350.00	-40.56
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

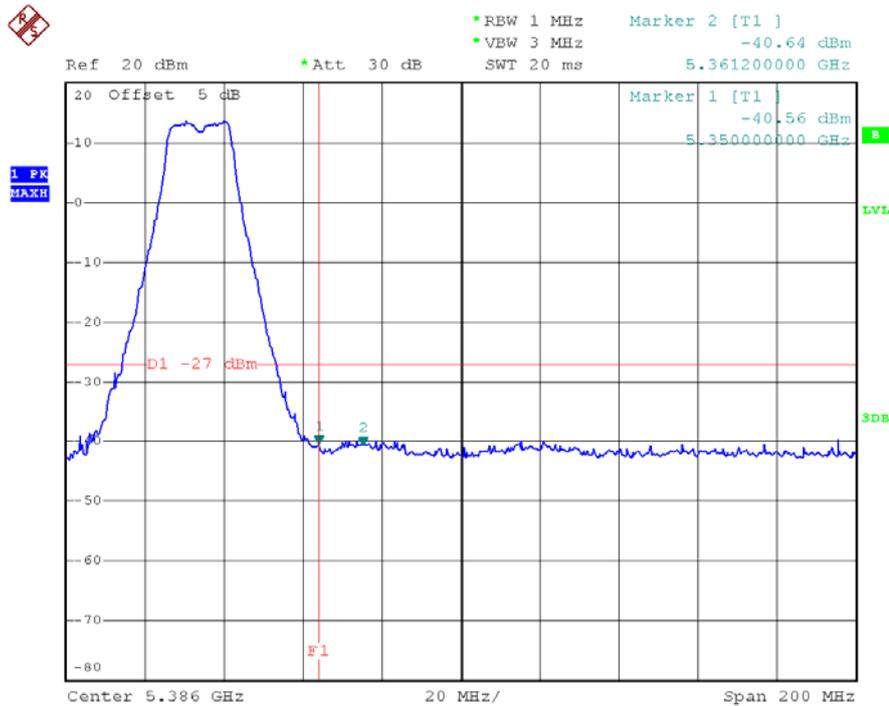


TX mode CH52



Date: 12.OCT.2012 02:28:17

TX mode CH64



Date: 12.OCT.2012 02:15:51



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX A Mode/ CH52, CH56 , CH60 – ANT 3 For 3TX		

Channel of Worst Data: CH52			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5146.60	-44.06	5361.60	-40.59
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX N20 Mode/ CH52, CH56 , CH64 – ANT 1 For 3TX		

Channel of Worst Data: CH52			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5143.60	-44.05	5384.40	-40.63
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

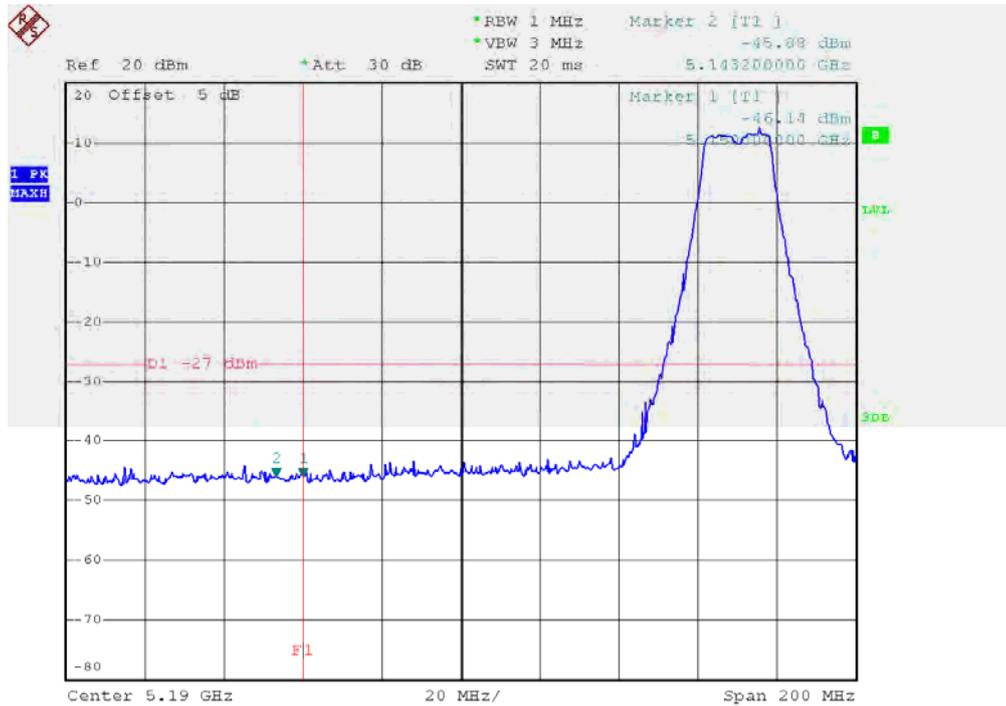


EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX N20 Mode/ CH52, CH56 , CH64 – ANT 2 For 3TX		

Channel of Worst Data: CH52			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5143.20	-45.88	5350.00	-43.10
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

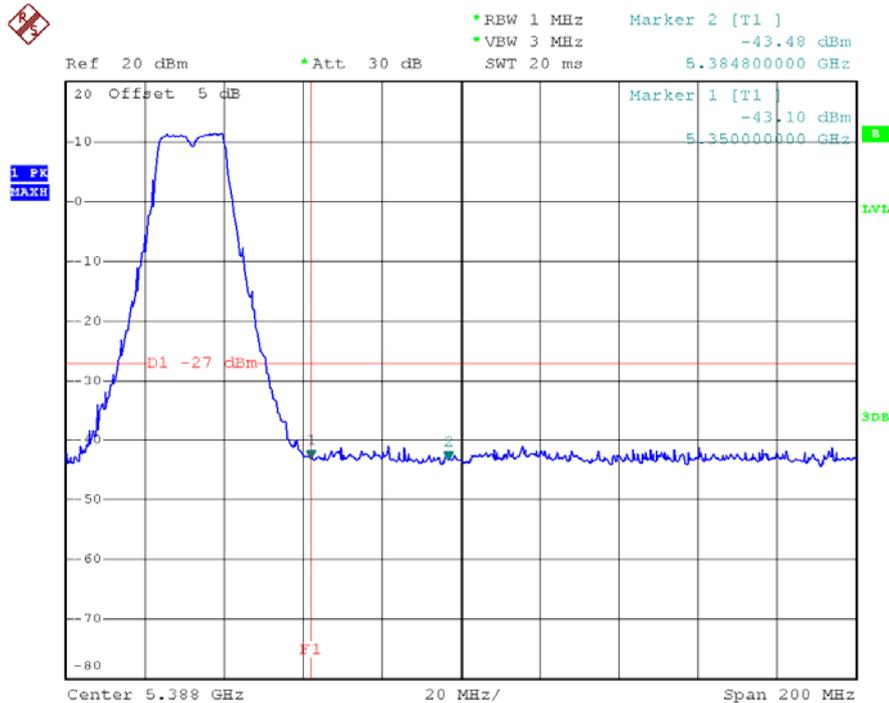


TX mode CH52



Date: 12.OCT.2012 02:37:58

TX mode CH64



Date: 12.OCT.2012 02:34:07



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX N20 Mode/ CH52, CH56 , CH64 – ANT 3 For 3TX		

Channel of Worst Data: CH52			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5150.00	-45.61	5350.00	-43.03
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

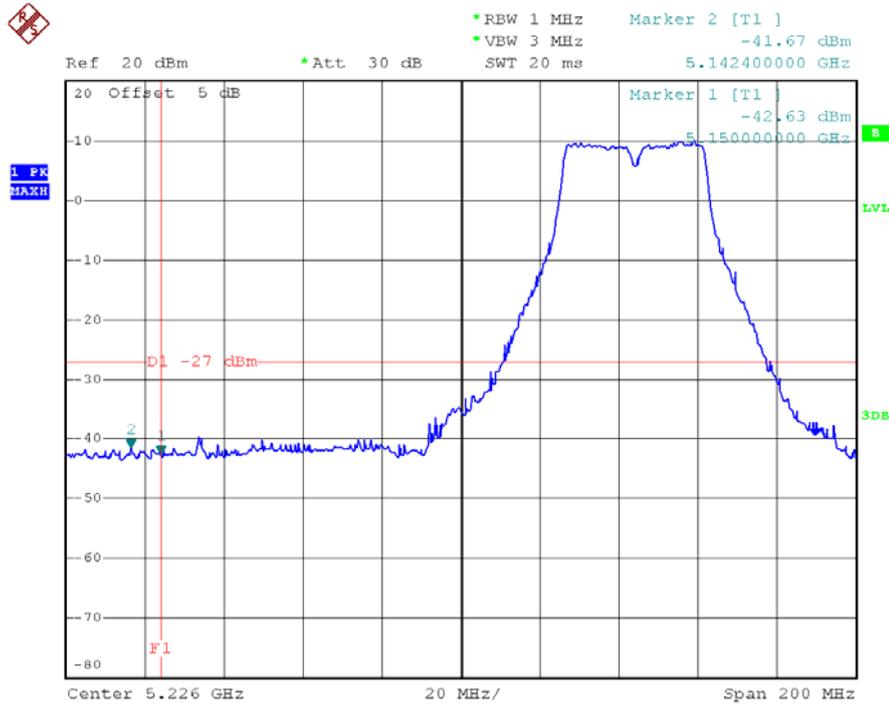


EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX N40 Mode/ CH54, CH62 – ANT 1 For 3TX		

Channel of Worst Data: CH54			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5142.40	-41.67	5350.00	-32.86
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

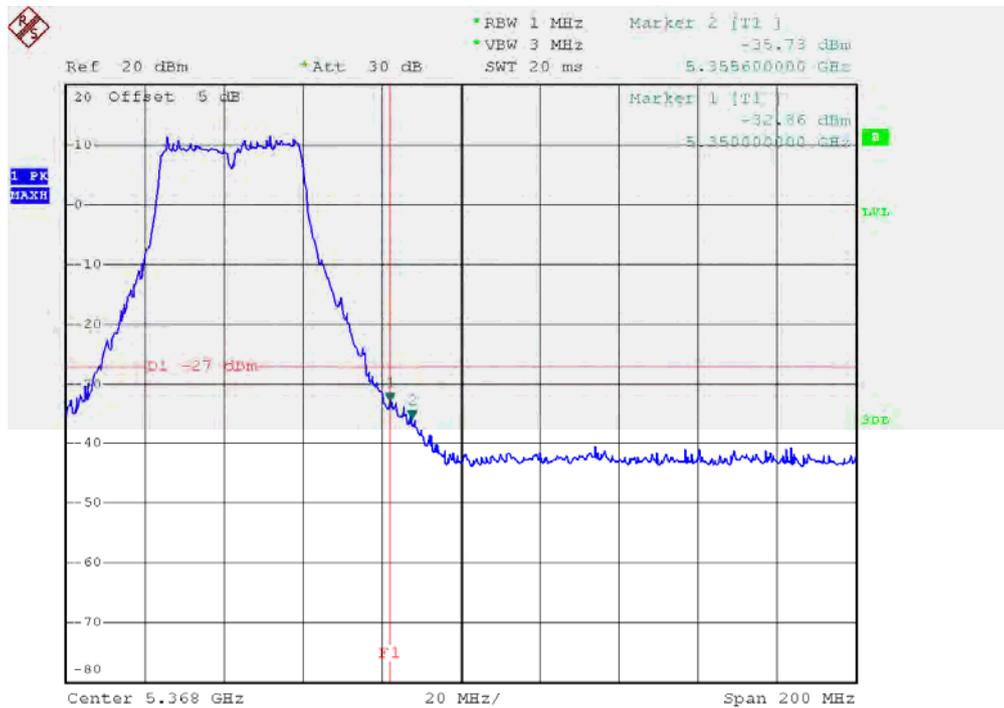


TX mode CH54



Date: 12.OCT.2012 02:59:47

TX mode CH62



Date: 12.OCT.2012 03:07:49

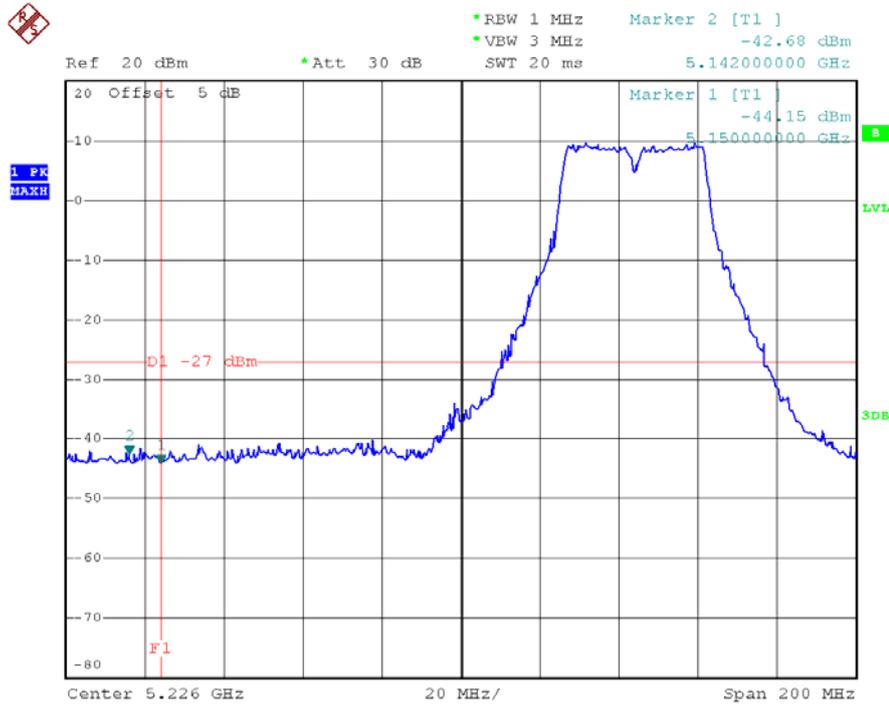


EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX N40 Mode/ CH54, CH62 – ANT 2 For 3TX		

Channel of Worst Data: CH54			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5142.00	-42.68	5350.00	-34.04
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

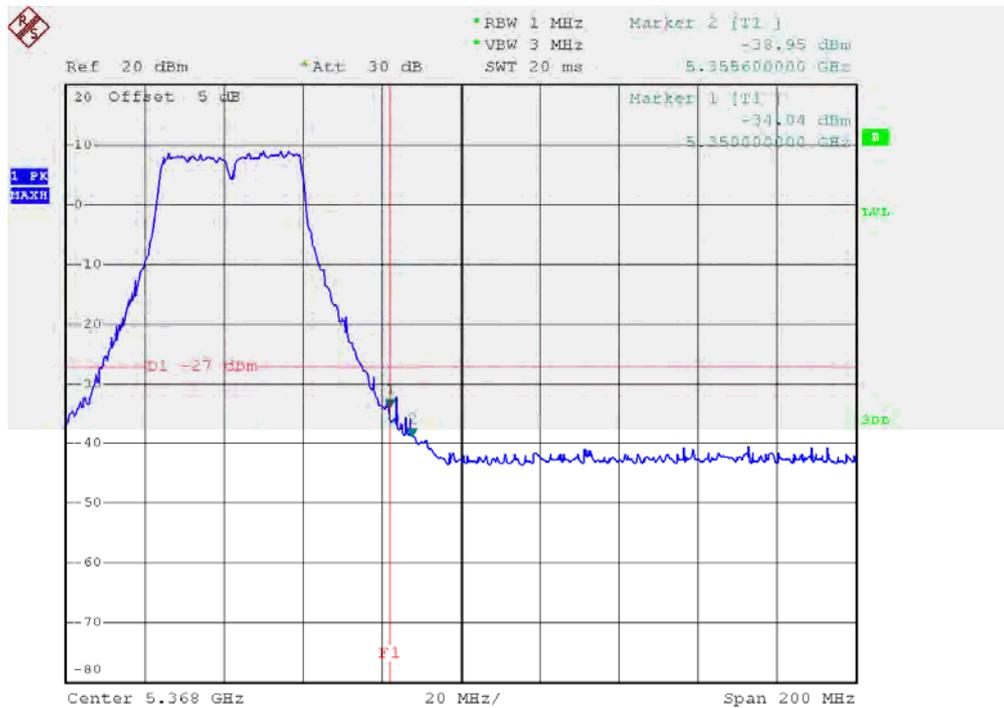


TX mode CH54



Date: 12.OCT.2012 02:59:57

TX mode CH62



Date: 12.OCT.2012 03:07:26

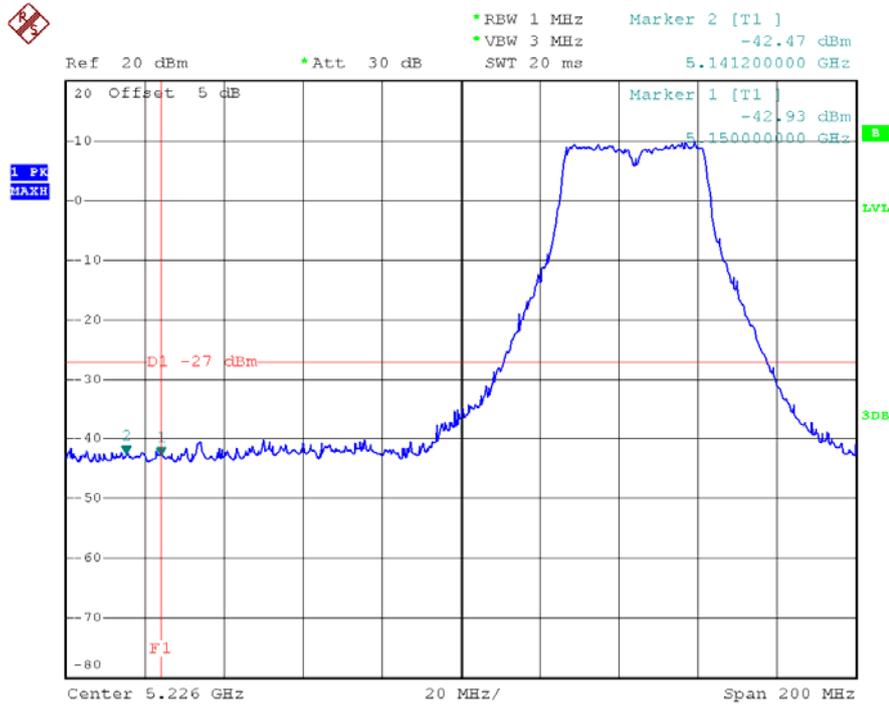


EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX N40 Mode/ CH54, CH62 – ANT 3 For 3TX		

Channel of Worst Data: CH54			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5141.20	-42.47	5350.00	-35.05
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

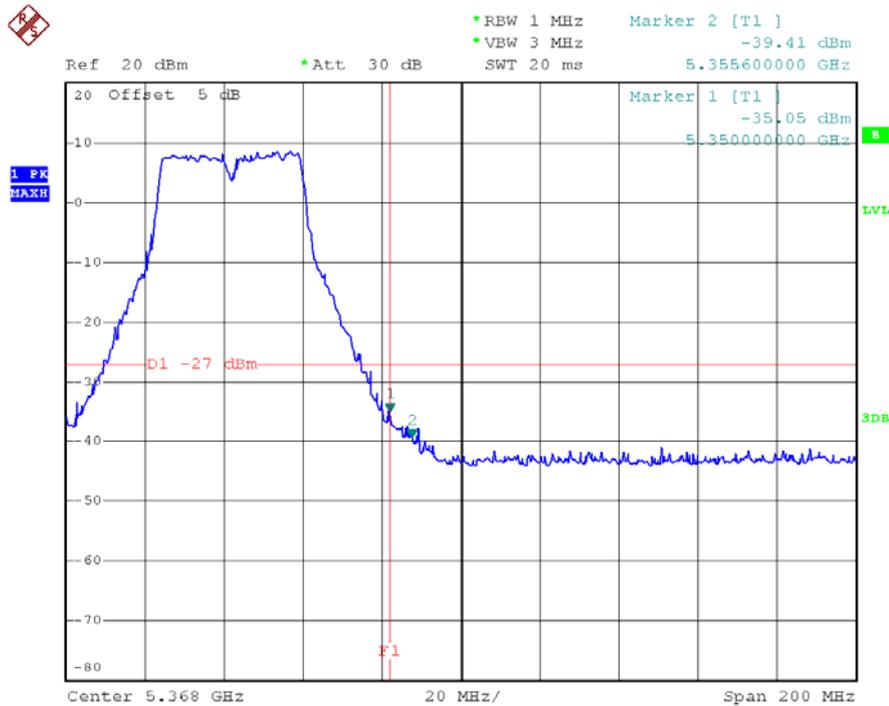


TX mode CH54



Date: 12.OCT.2012 03:00:12

TX mode CH62



Date: 12.OCT.2012 03:07:36



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX A Mode/ CH100, CH116 , CH140 – ANT 1 For 3TX		

Channel of Worst Data: CH100			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5470.00	-42.17	5725.00	-37.93
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX A Mode/ CH100, CH116 , CH140 – ANT 2 For 3TX		

Channel of Worst Data: CH100			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5470.00	-42.94	5731.60	-38.59
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

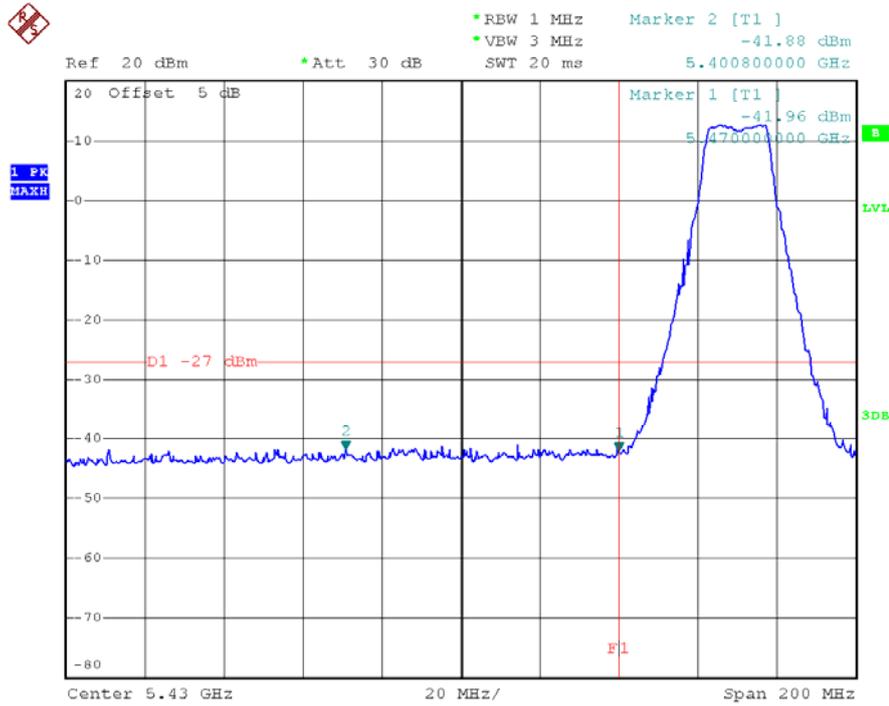


EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX A Mode/ CH100, CH116 , CH140 – ANT 3 For 3TX		

Channel of Worst Data: CH100			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5400.80	-41.88	5725.00	-38.55
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

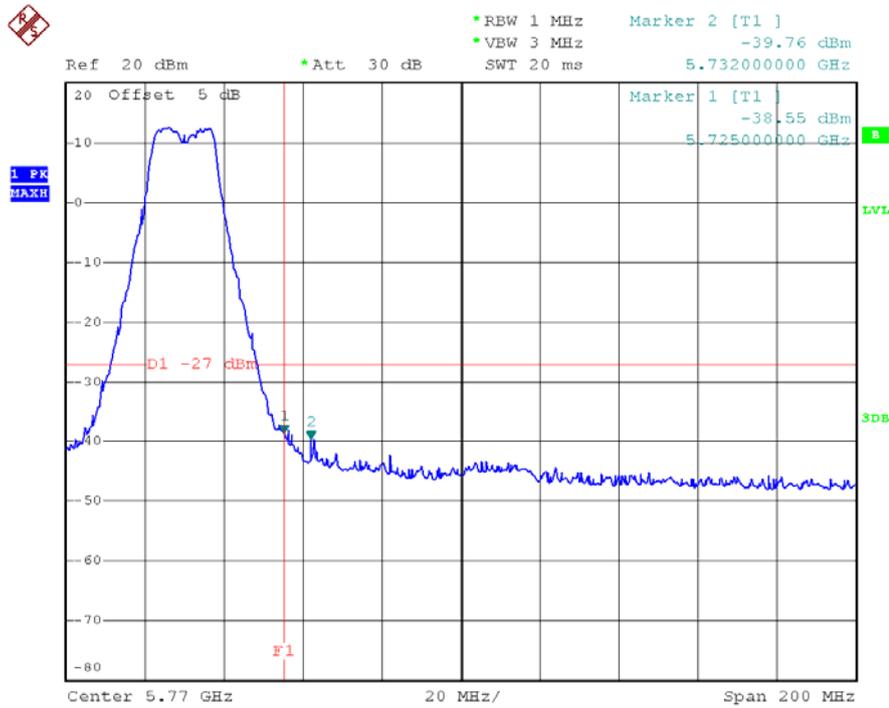


TX mode CH100



Date: 12.OCT.2012 02:17:46

TX mode CH140



Date: 12.OCT.2012 02:24:11



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX N20 Mode/ CH100, CH116 , CH140 – ANT 1 For 3TX		

Channel of Worst Data: CH100			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5454.00	-40.85	5725.00	-39.13
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX N20 Mode/ CH100, CH116 , CH140 – ANT 2 For 3TX		

Channel of Worst Data: CH100			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5470.00	-42.21	5725.00	-39.11
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX N20 Mode/ CH100, CH116 , CH140 – ANT 3 For 3TX		

Channel of Worst Data: CH100			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5453.60	-41.39	5725.00	-38.82
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

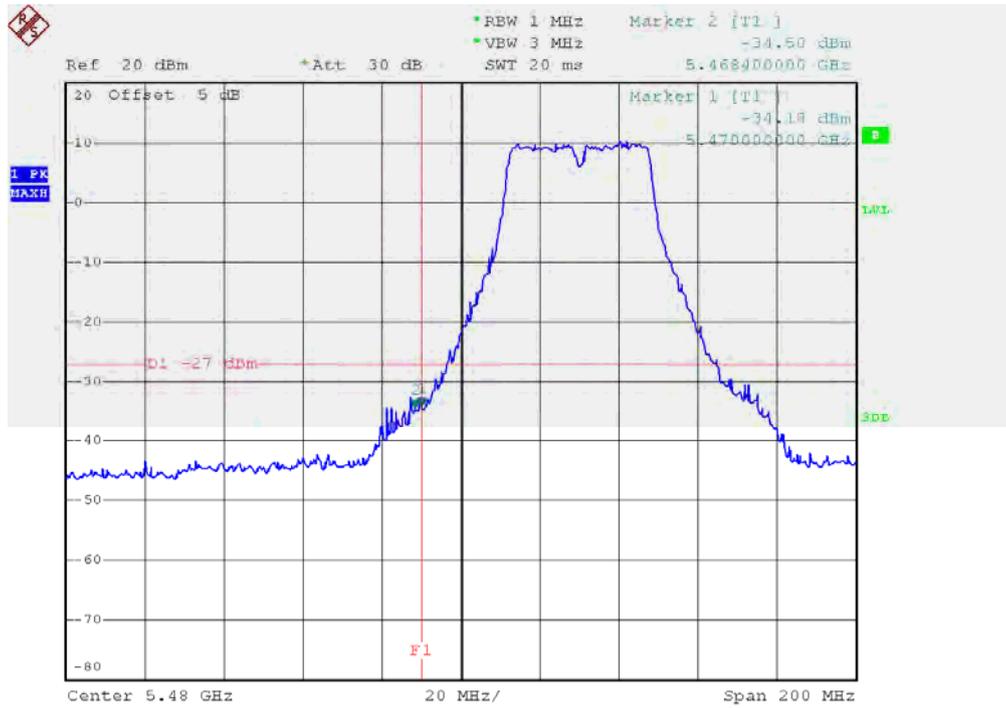


EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX N40 Mode/ CH102, CH110,CH134 – ANT 1 For 3TX		

Channel of Worst Data: CH102			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5470.00	-38.14	5725.00	-38.52
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

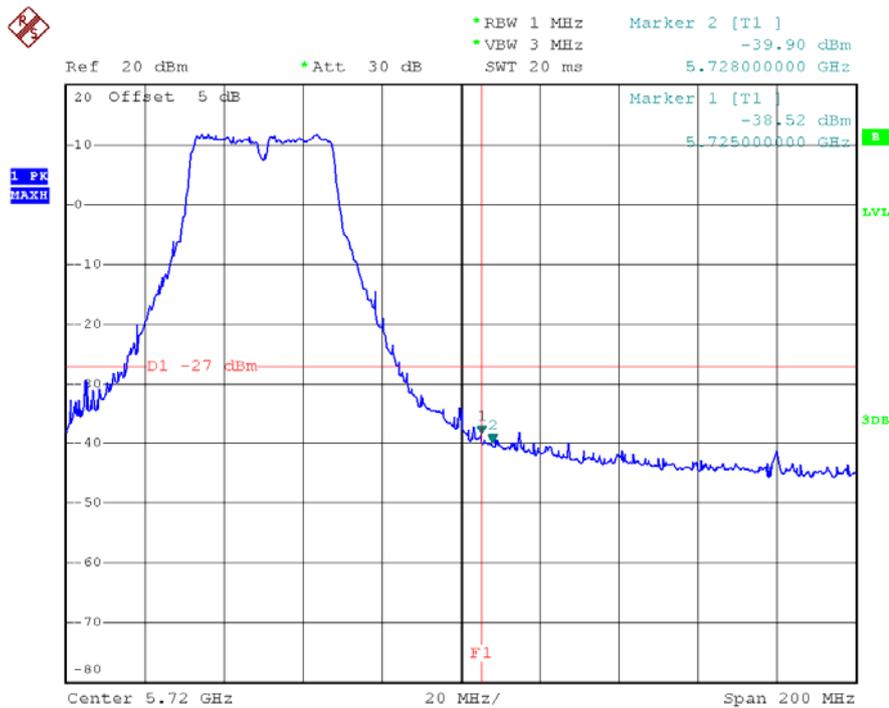


TX mode CH102



Date: 12.OCT.2012 03:14:09

TX mode CH134



Date: 12.OCT.2012 03:18:02



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX N40 Mode/ CH102, CH110,CH134 – ANT 2 For 3TX		

Channel of Worst Data: CH102			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5470.00	-33.80	5725.00	-39.09
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

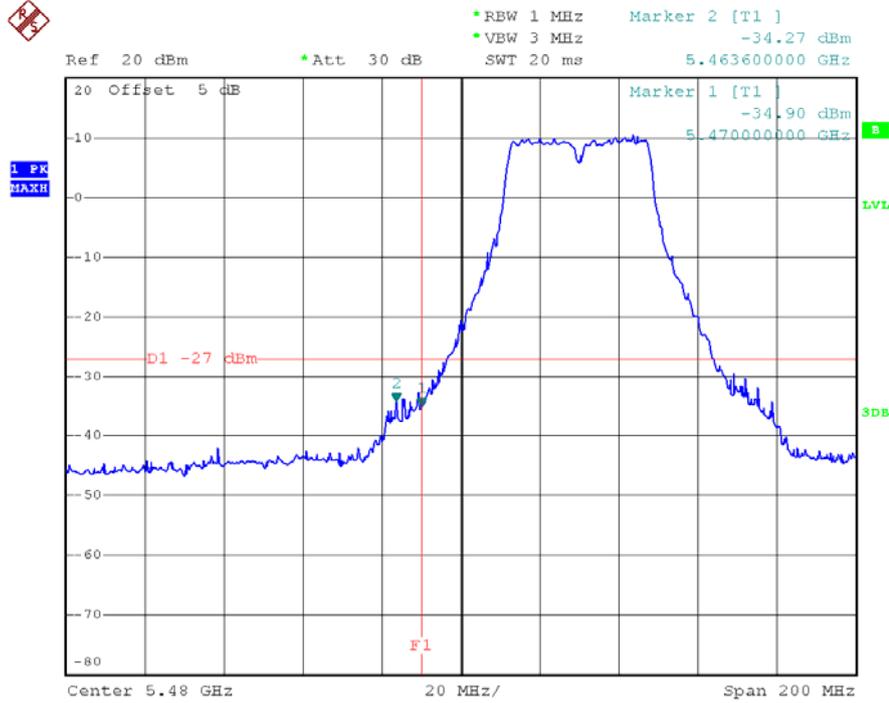


EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX N40 Mode/ CH102, CH110,CH134 – ANT 3 For 3TX		

Channel of Worst Data: CH102			
The max. radio frequency power in any 1000kHz bandwidth outside the frequency band		The max. radio frequency power in any 1000kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
5463.60	-34.27	5728.00	-38.25
Limit: -27 dBm/1MHz		Result:PASS	
Measurement method: S.A Read value+Ant gain+cable loss			

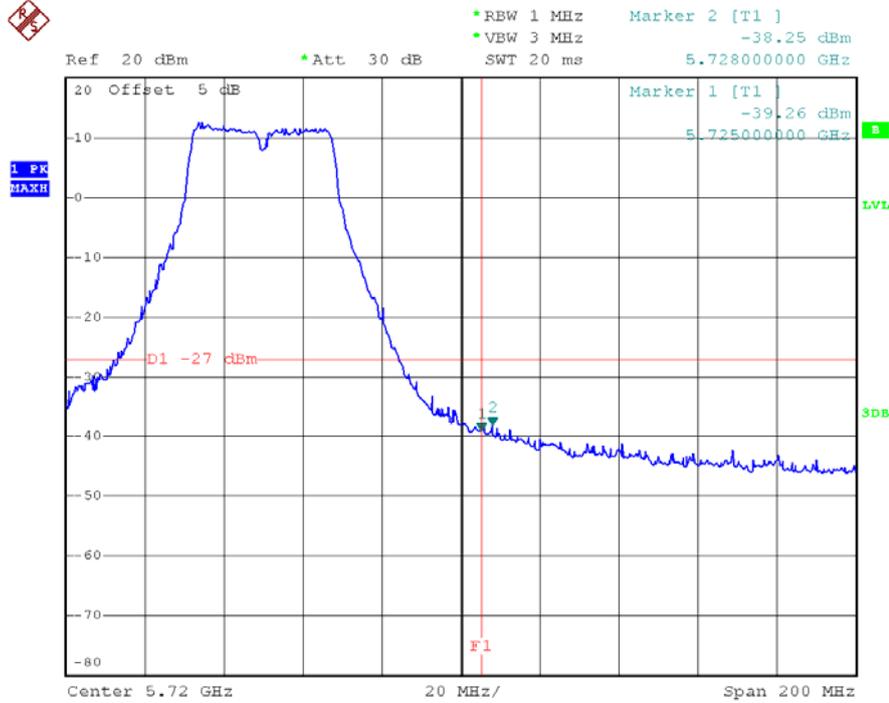


TX mode CH102



Date: 12.OCT.2012 03:14:29

TX mode CH134



Date: 12.OCT.2012 03:17:37



8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	4 dBm	5150 - 5250	PASS
	11 dBm	5250 - 5350	PASS
	11 dBm	5470 - 5725	PASS

8.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100129	Nov.26.2011	Nov.26.2012

Remark: "N/A" denotes no model name, serial no. or calibration specified.

8.1.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

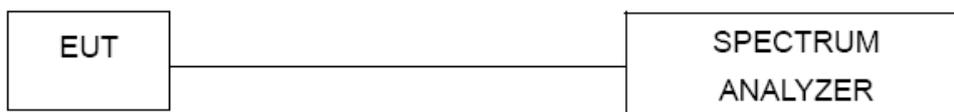
b.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RB	= 1 MHz.
VB	≥ 3 MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



8.1.5 EUT OPERATION CONDITIONS

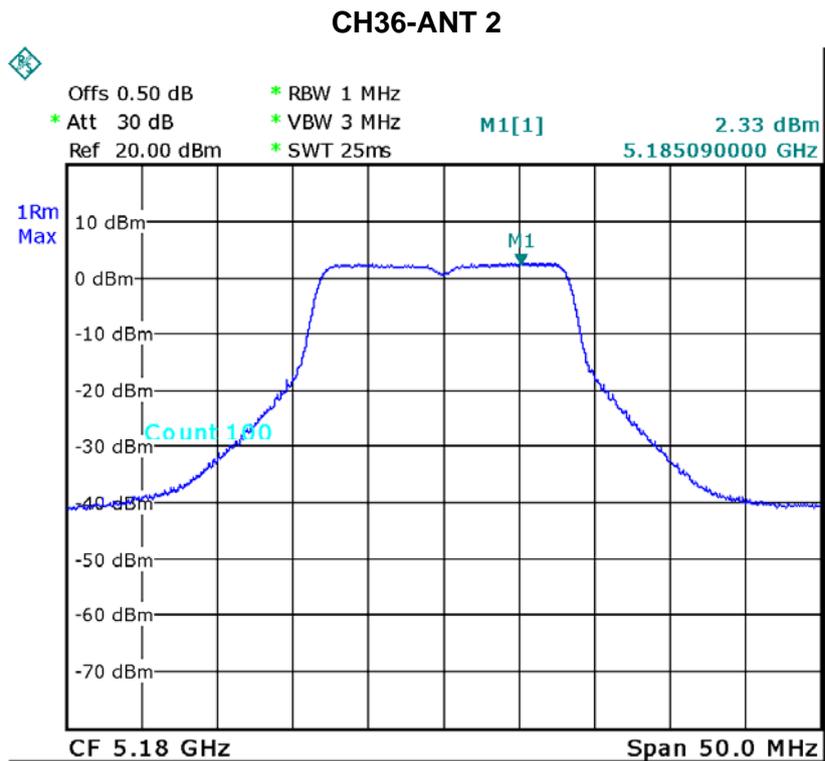
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



8.1.6 TEST RESULTS

EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX A Mode/CH36, CH40, CH48 - For 1TX		

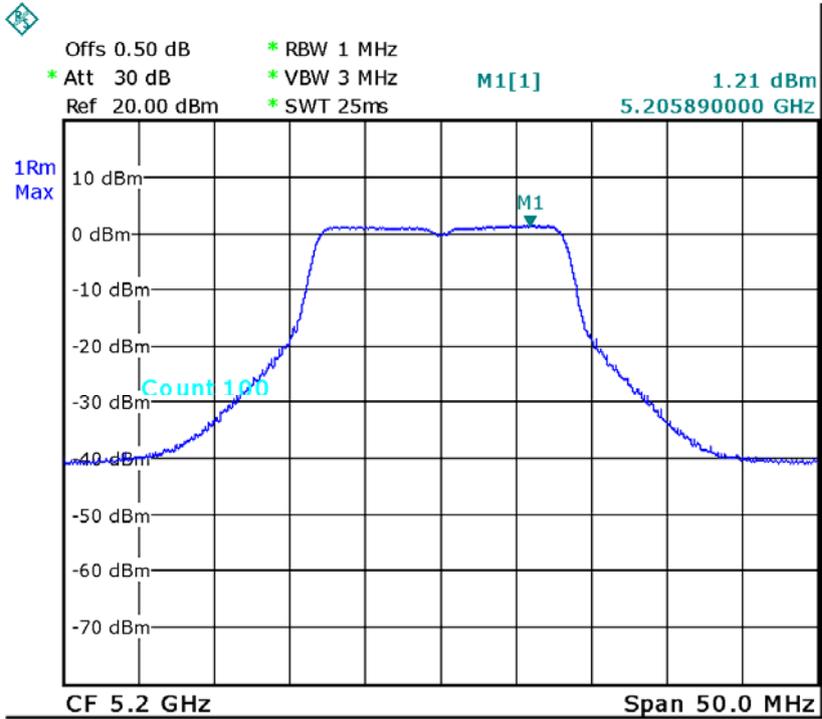
ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	2.33	4.00
CH40	5210	1.21	4.00
CH48	5240	0.58	4.00



Date: 9.OCT.2012 13:12:02

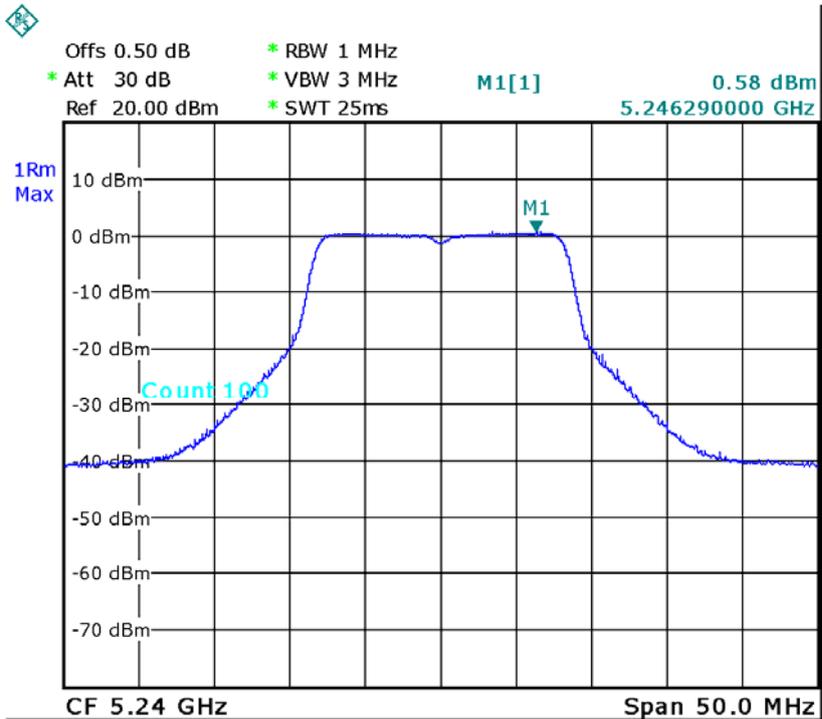


CH40-ANT 2



Date: 9.OCT.2012 13:15:04

CH48-ANT 2



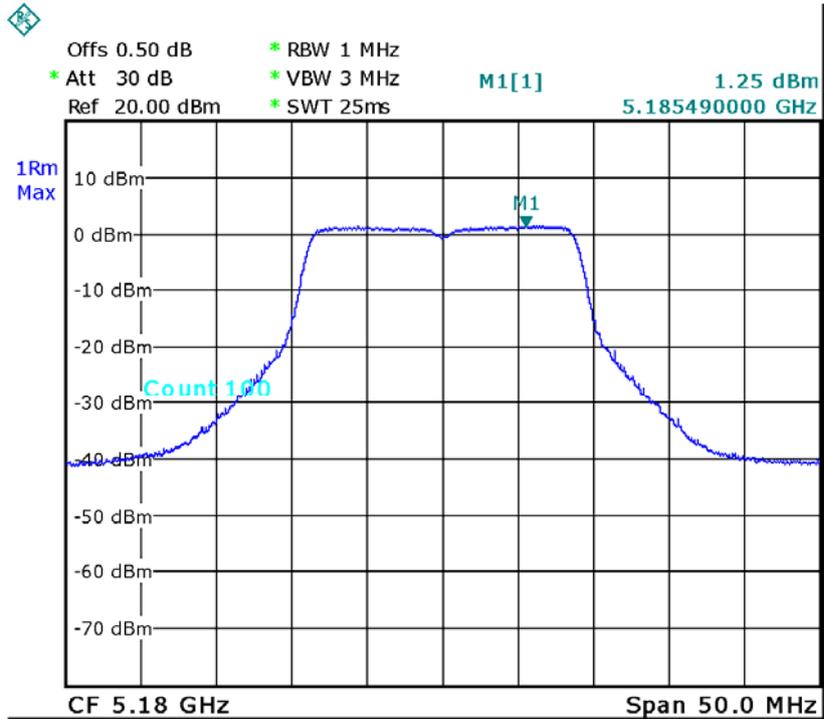
Date: 9.OCT.2012 13:24:06



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX N20 Mode/CH36, CH40, CH48 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	1.25	4.00
CH40	5210	0.46	4.00
CH48	5240	0.32	4.00

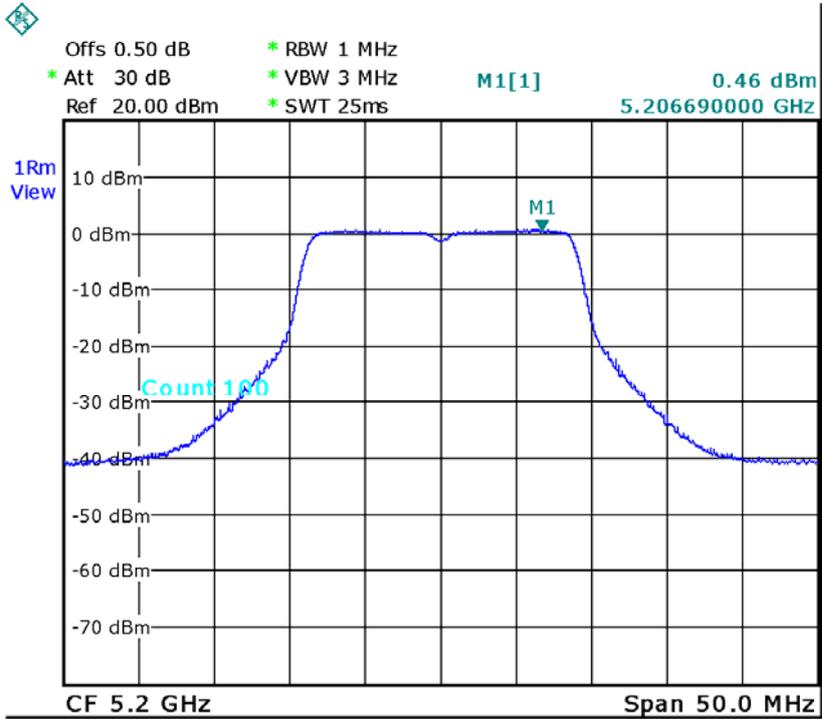
CH36-ANT 2



Date: 9.OCT.2012 14:05:08

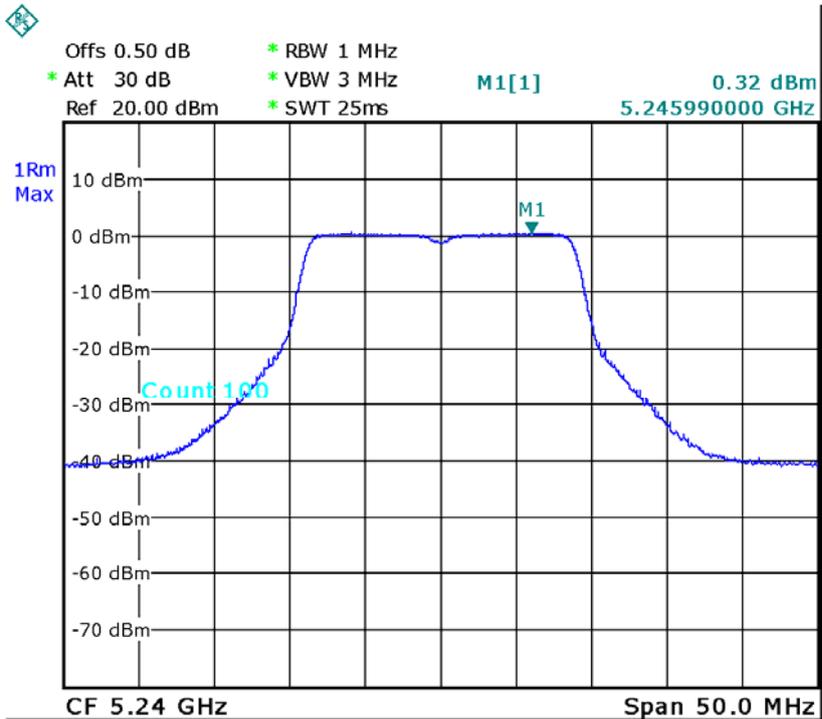


CH40-ANT 2



Date: 9.OCT.2012 14:03:52

CH48-ANT 2



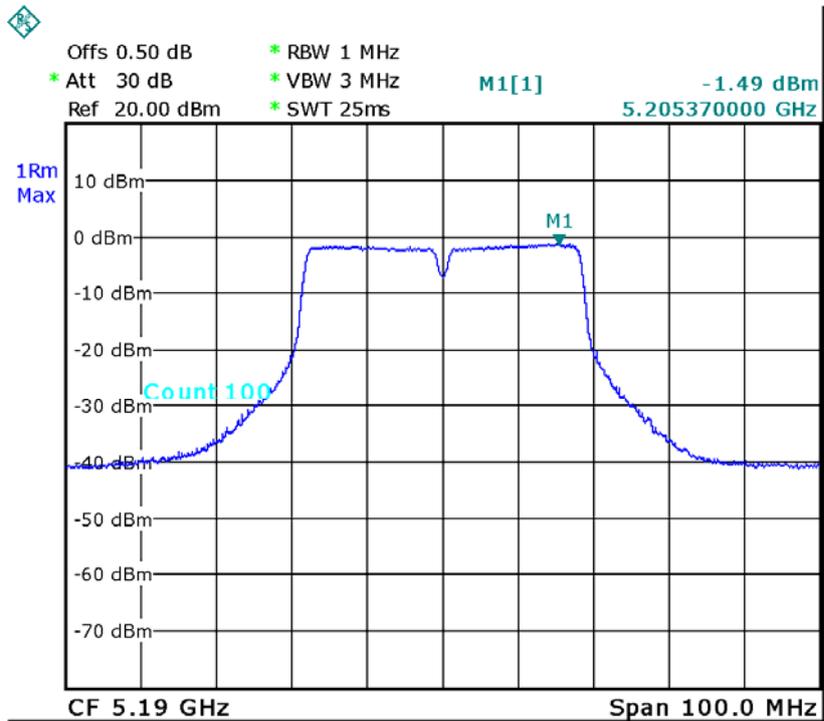
Date: 9.OCT.2012 14:01:06



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX N40 Mode/CH38, CH46 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH38	5190	-1.49	4.00
CH46	5230	-2.58	4.00

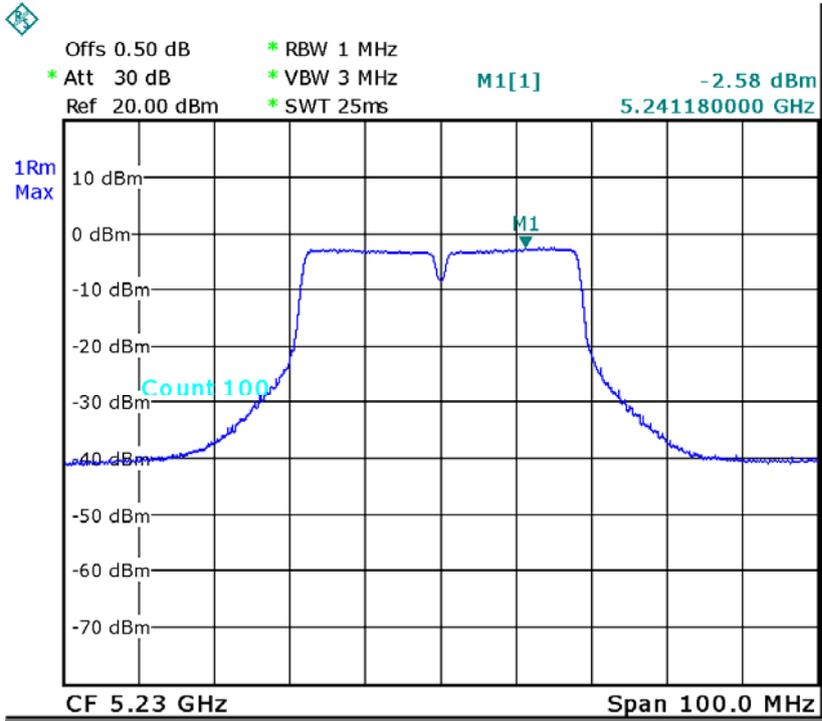
CH38-ANT 2



Date: 9.OCT.2012 14:22:04



CH46-ANT 2



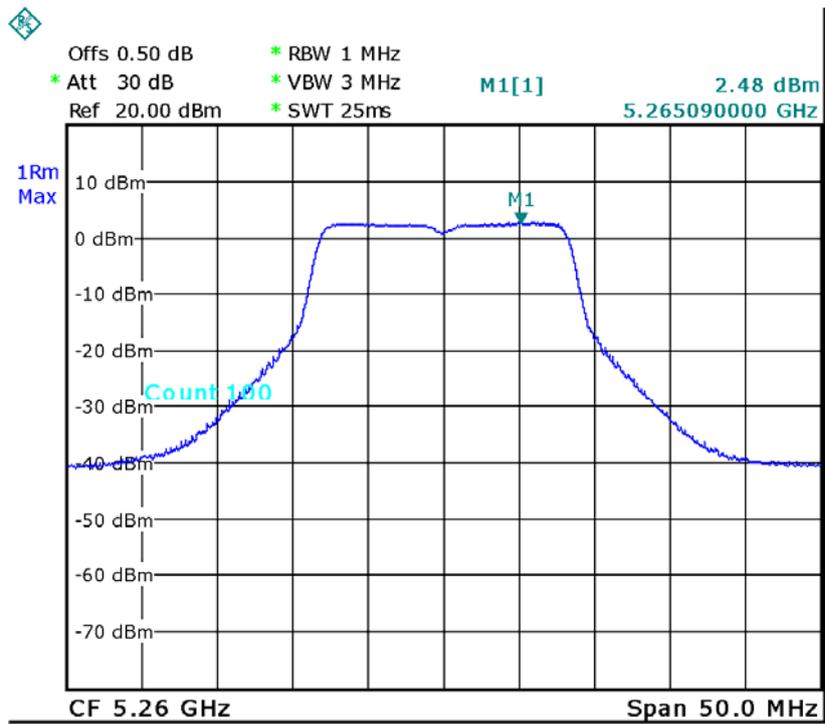
Date: 9.OCT.2012 14:20:08



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX A Mode/CH52, CH56, CH64 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	2.48	11
CH56	5280	2.19	11
CH64	5320	2.36	11

CH52-ANT 2



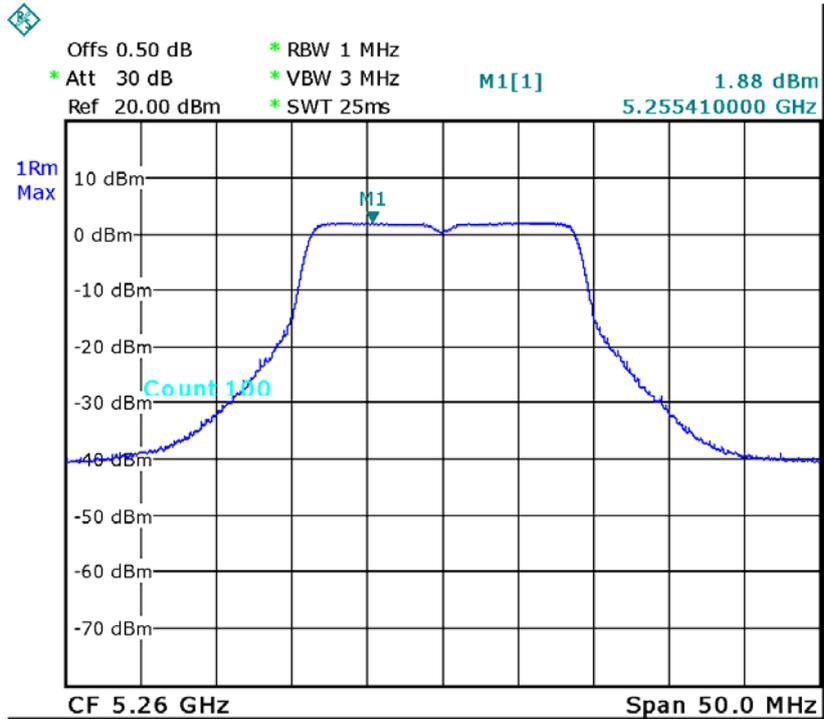
Date: 9.OCT.2012 13:26:28



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX N20 Mode/CH52, CH56, CH64 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	1.88	11
CH56	5280	2.33	11
CH64	5320	2.87	11

CH52-ANT 2



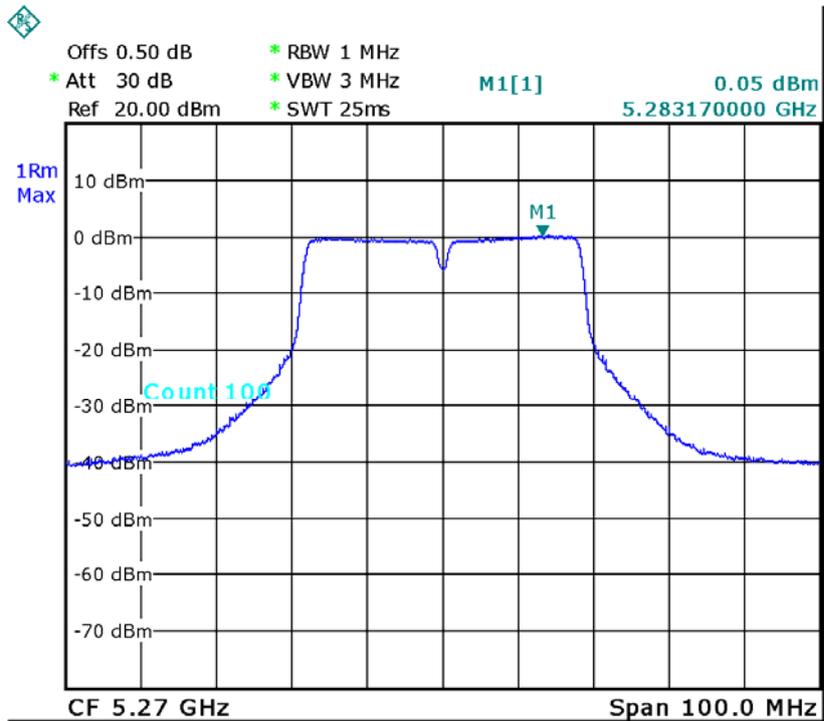
Date: 9.OCT.2012 13:58:16



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX N40 Mode/CH54, CH62 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH54	5270	0.05	11
CH62	5310	0.74	11

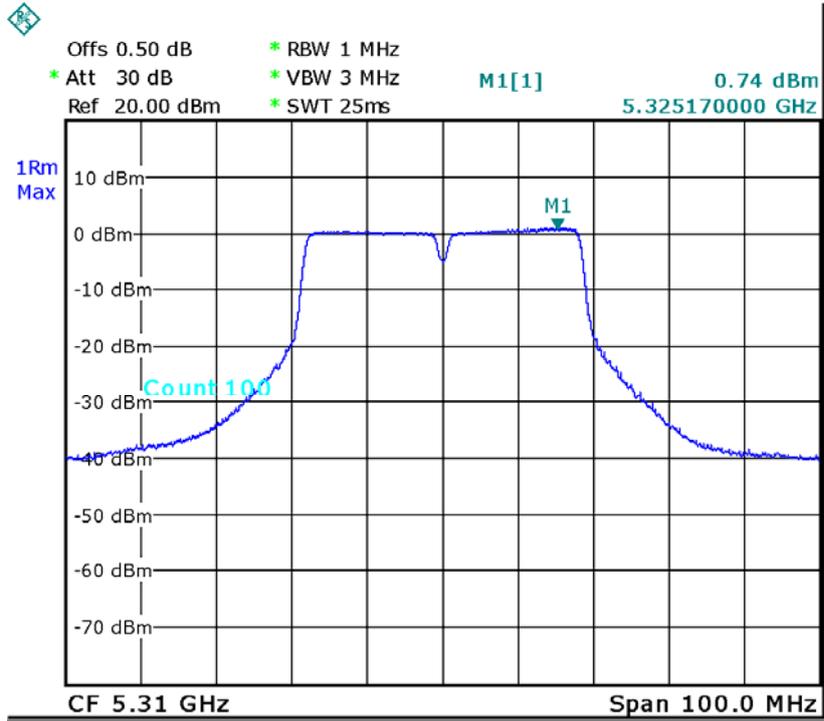
CH54-ANT 2



Date: 9.OCT.2012 14:25:15



CH62-ANT 2



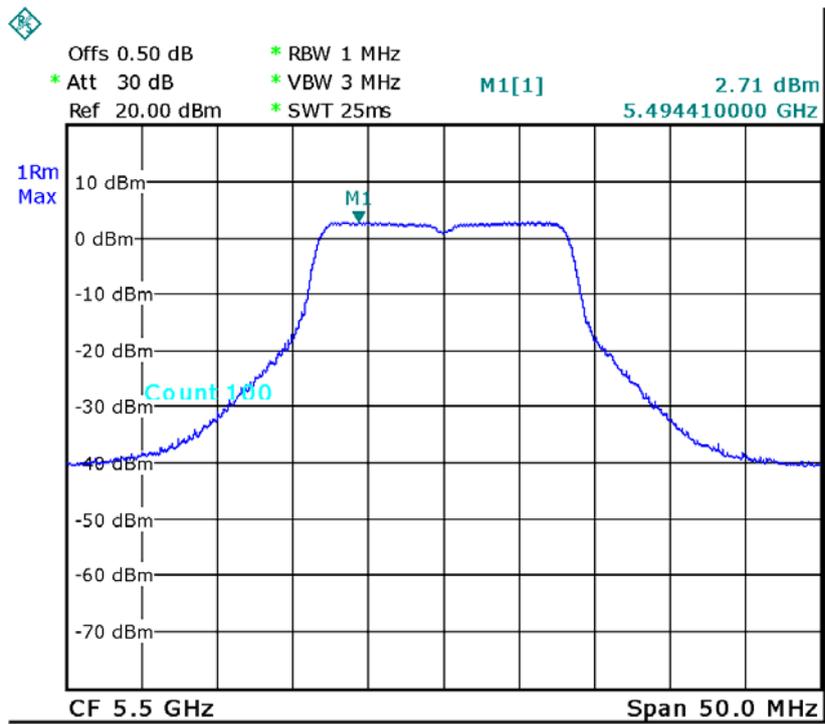
Date: 9.OCT.2012 14:26:57



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX A Mode/CH100, CH116, CH140 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	2.71	11
CH116	5580	2.86	11
CH140	5700	3.26	11

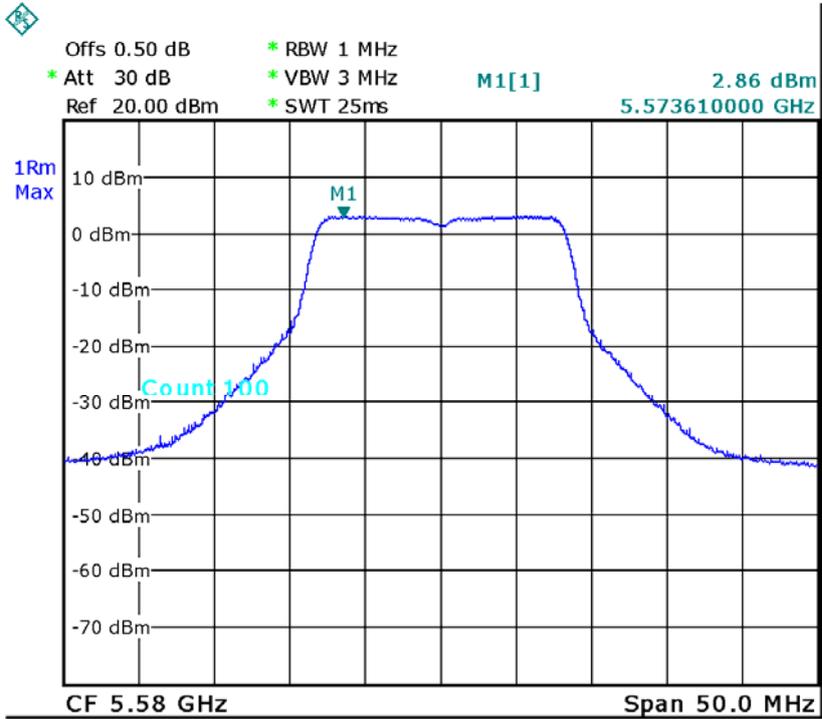
CH100-ANT 2



Date: 9.OCT.2012 13:34:11

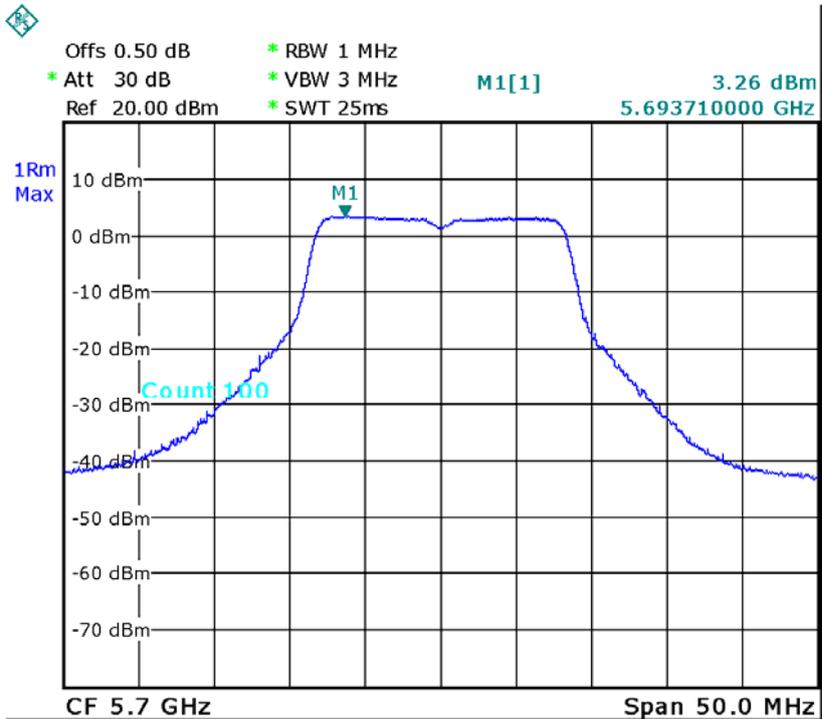


CH116-ANT 2



Date: 9.OCT.2012 13:35:50

CH140-ANT 2



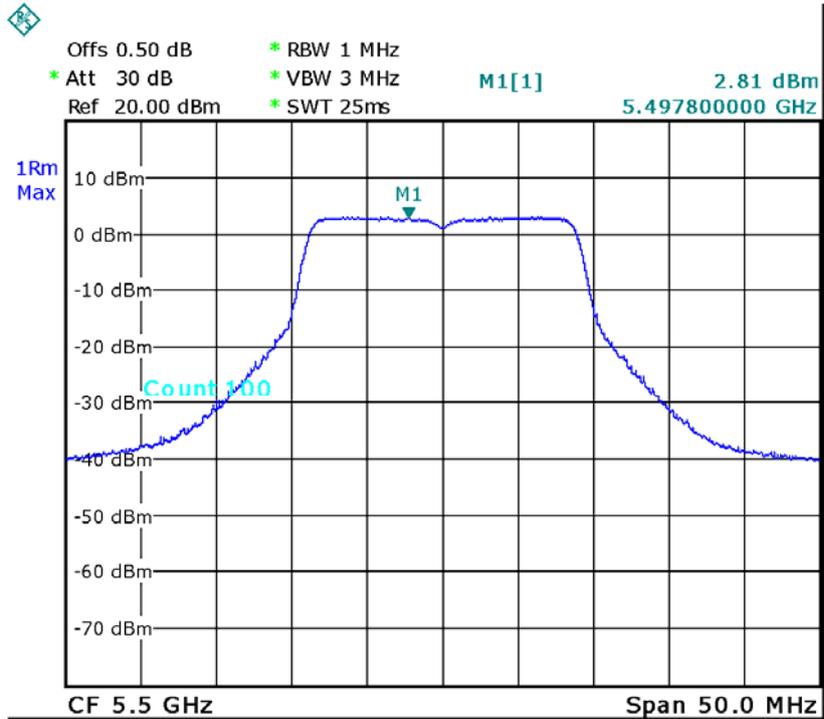
Date: 9.OCT.2012 13:39:47



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX N20 Mode/CH100, CH116, CH140 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	3.07	11
CH116	5580	3.04	11
CH140	5700	2.81	11

CH100-ANT 2



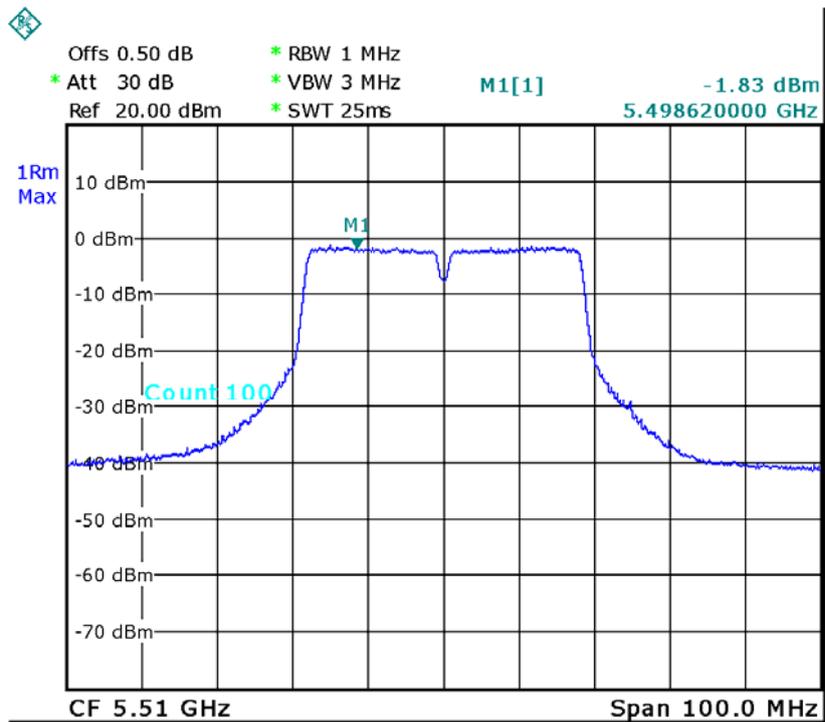
Date: 9.OCT.2012 13:48:49



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX N40 Mode/CH102, CH110,CH134 - For 1TX		

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH102	5510	-1.83	11
CH110	5550	0.84	11
CH134	5670	0.73	11

CH102-ANT 2



Date: 13.OCT.2012 13:29:20



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX A Mode/CH36, CH40, CH48 - For 2TX		

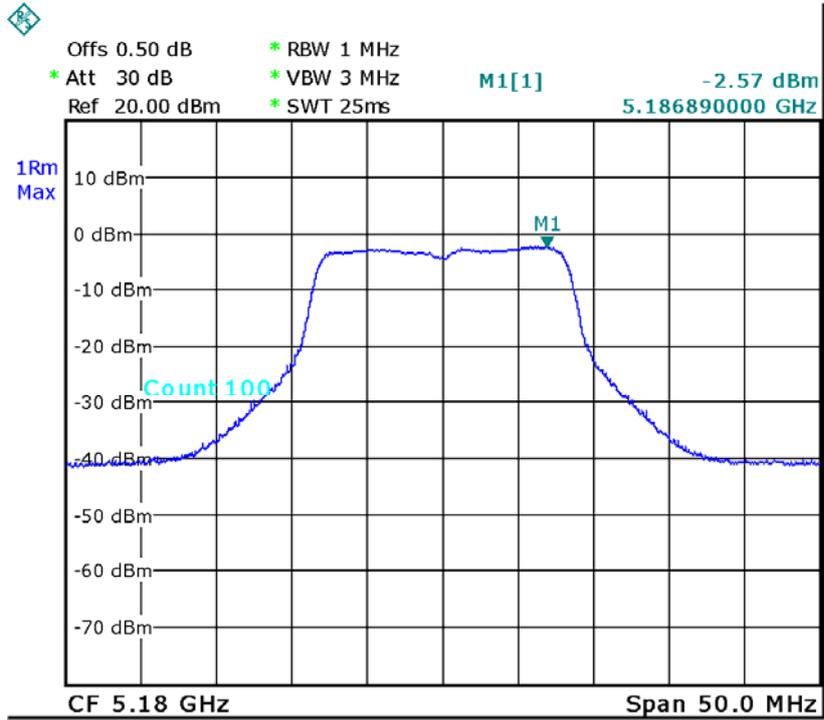
ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	-2.57	4.00
CH40	5210	-2.07	4.00
CH48	5240	-1.69	4.00

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	-1.36	4.00
CH40	5210	-1.51	4.00
CH48	5240	-2.53	4.00

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	1.09	4.00
CH40	5210	1.23	4.00
CH48	5240	0.92	4.00

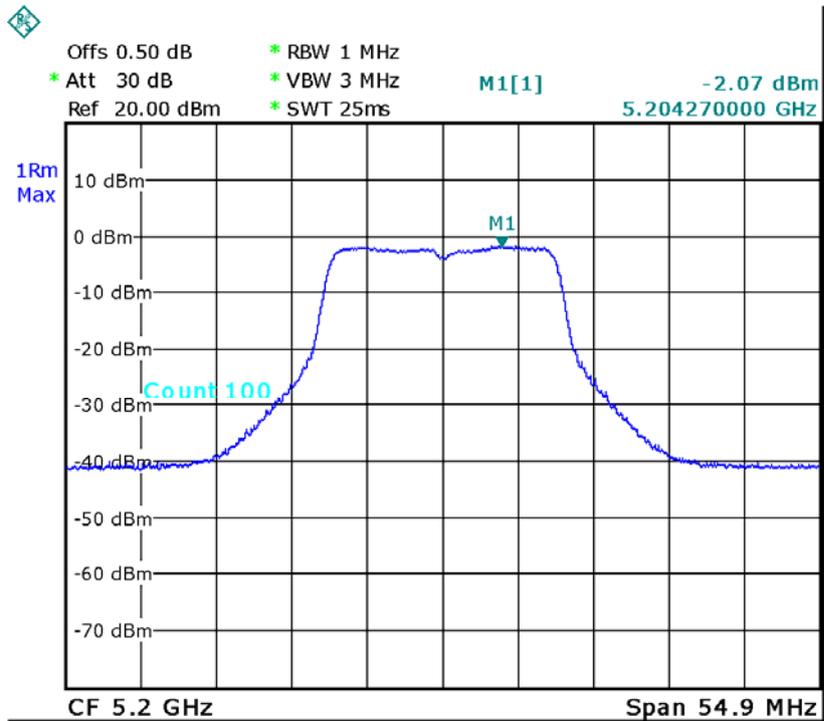


CH36-ANT 1



Date: 9.OCT.2012 15:26:02

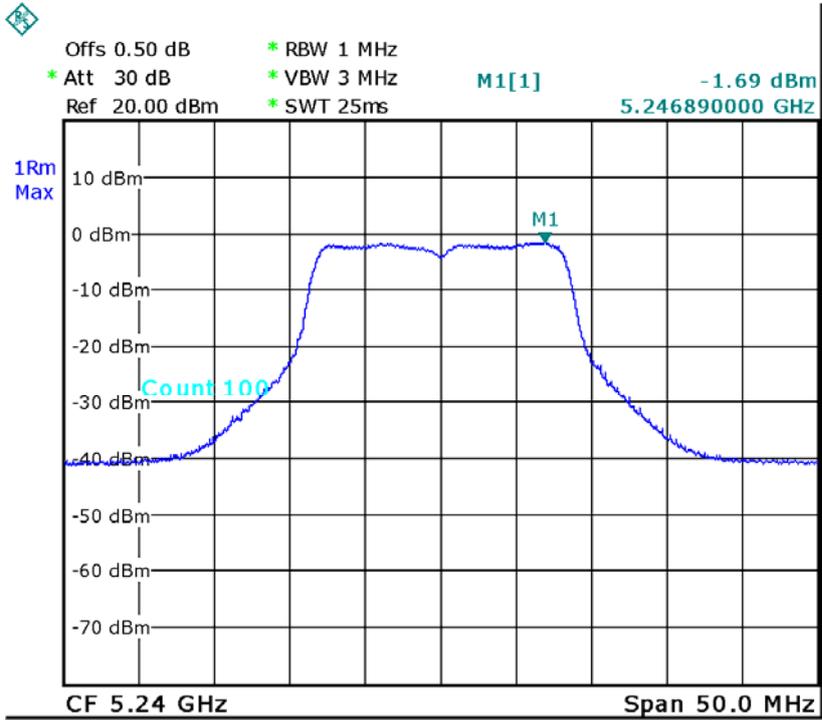
CH40-ANT 1



Date: 9.OCT.2012 15:32:05

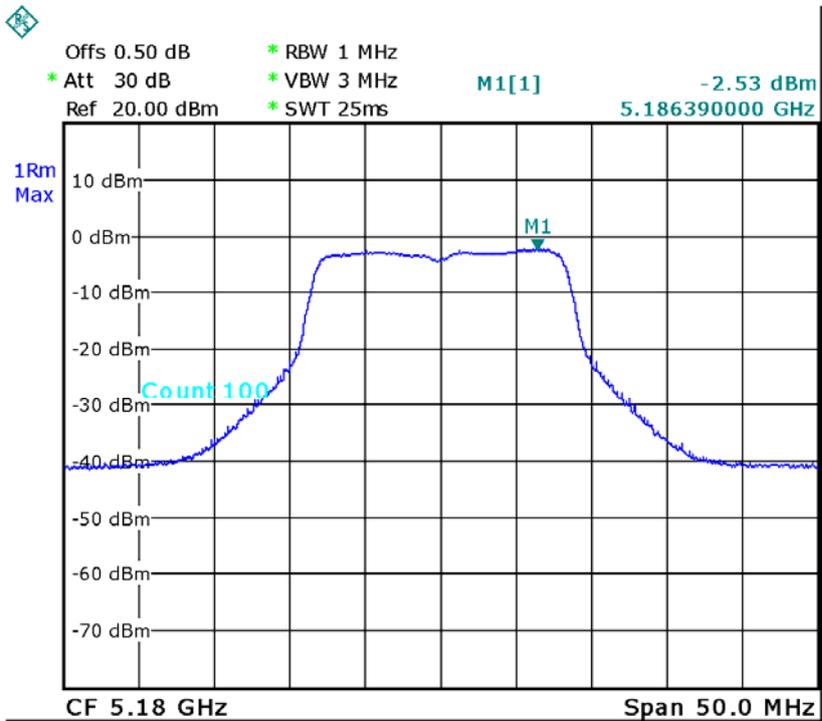


CH48-ANT 1



Date: 9.OCT.2012 15:38:23

CH36-ANT 2



Date: 9.OCT.2012 15:25:14



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX N20 Mode/CH36, CH40, CH48 - For 2TX		

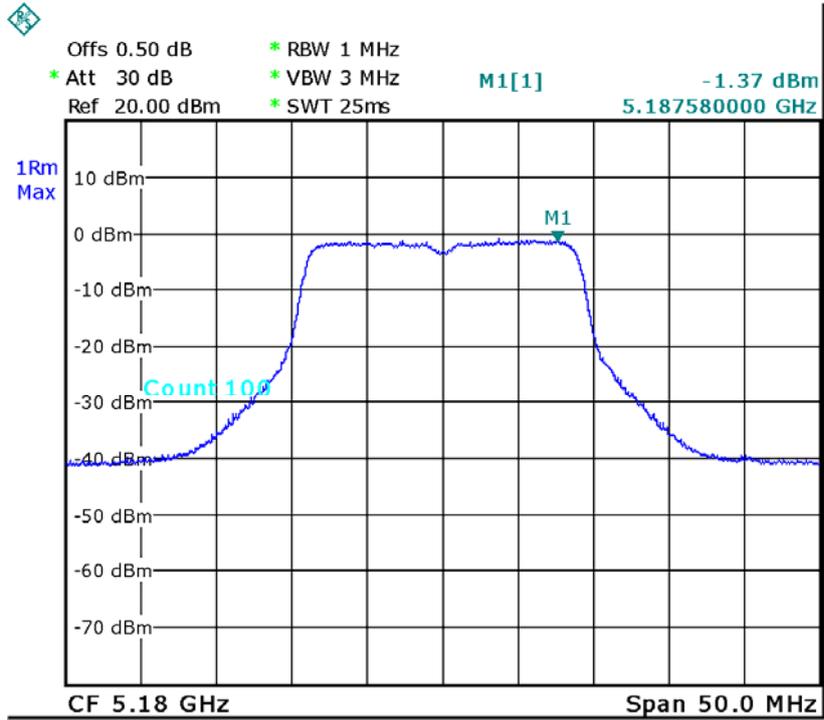
ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	-1.37	4.00
CH40	5210	-1.28	4.00
CH48	5240	-1.83	4.00

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	-2.32	4.00
CH40	5210	-1.85	4.00
CH48	5240	-1.65	4.00

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	1.19	4.00
CH40	5210	1.45	4.00
CH48	5240	1.27	4.00

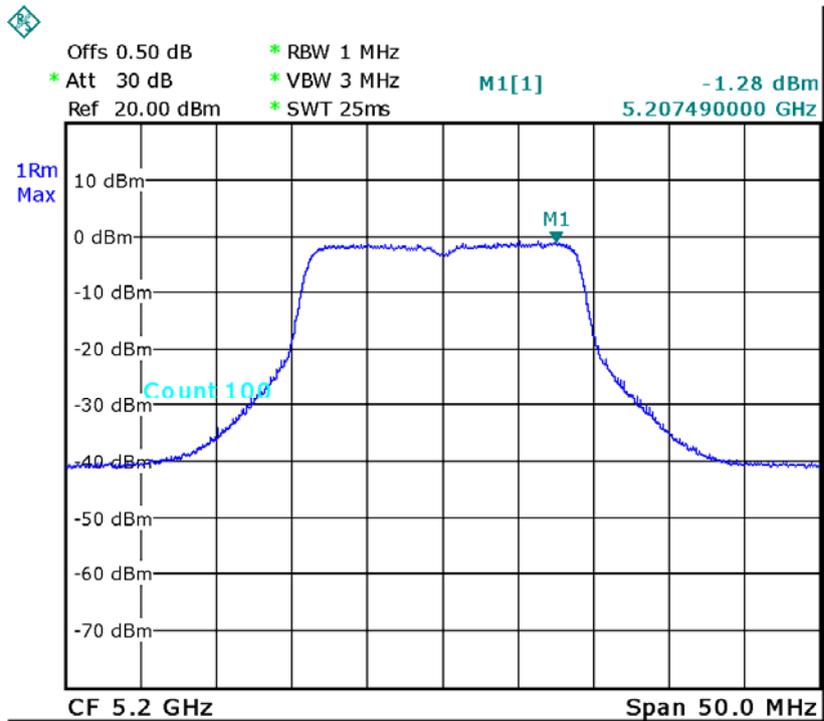


CH36-ANT 1



Date: 9.OCT.2012 17:04:05

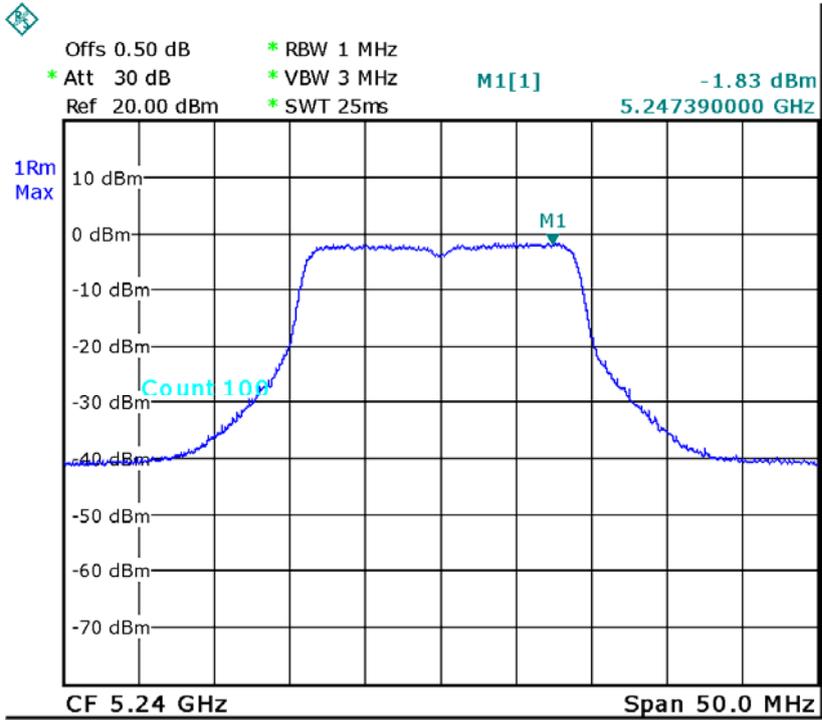
CH40-ANT 1



Date: 9.OCT.2012 17:00:37

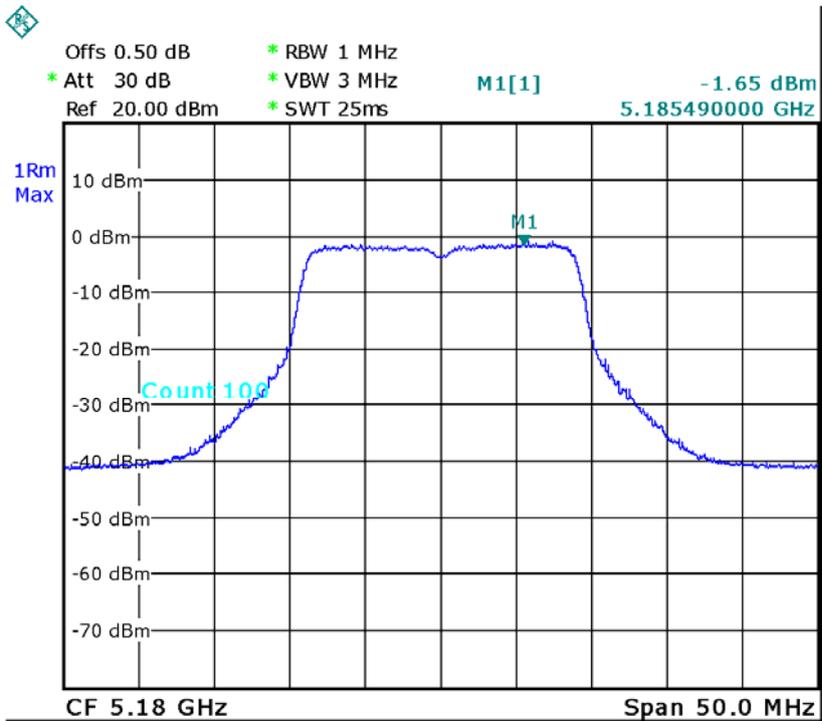


CH48-ANT 1



Date: 9.OCT.2012 16:54:53

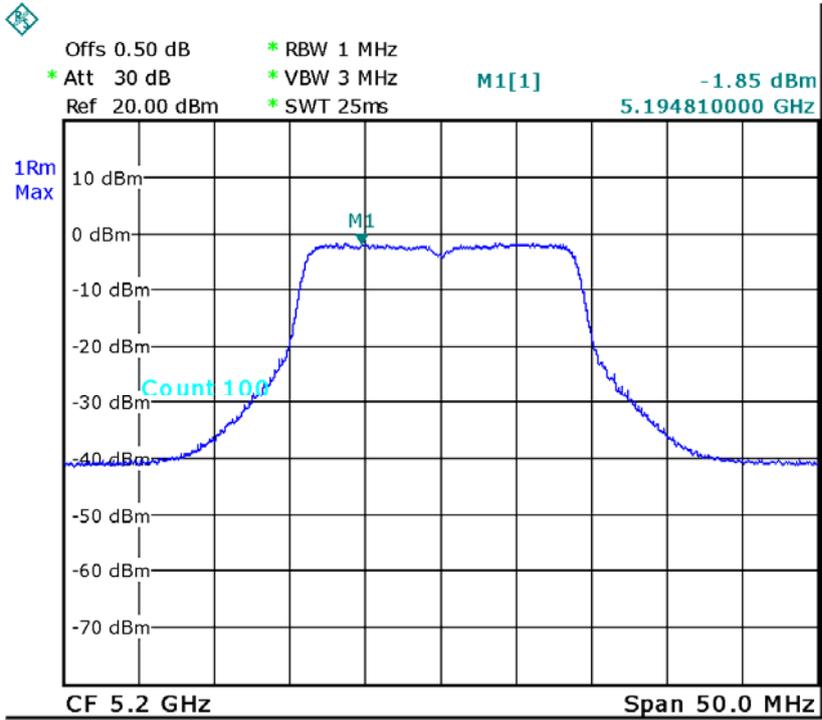
CH36-ANT 2



Date: 9.OCT.2012 17:03:05

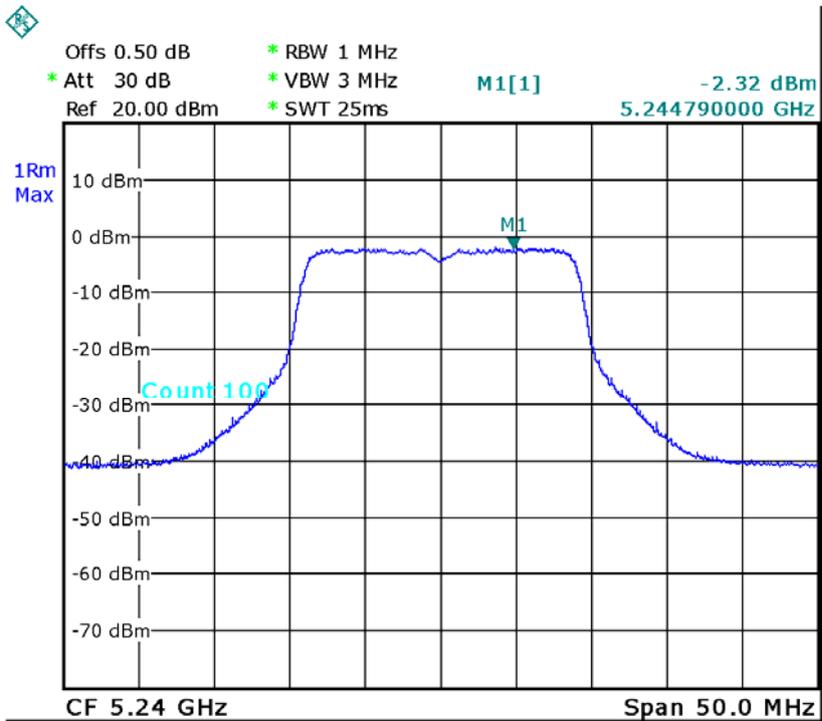


CH40-ANT 2



Date: 9.OCT.2012 16:59:23

CH48-ANT 2



Date: 9.OCT.2012 16:56:26



Neutron Engineering Inc.

EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX N40 Mode/CH38, CH46 - For 2TX		

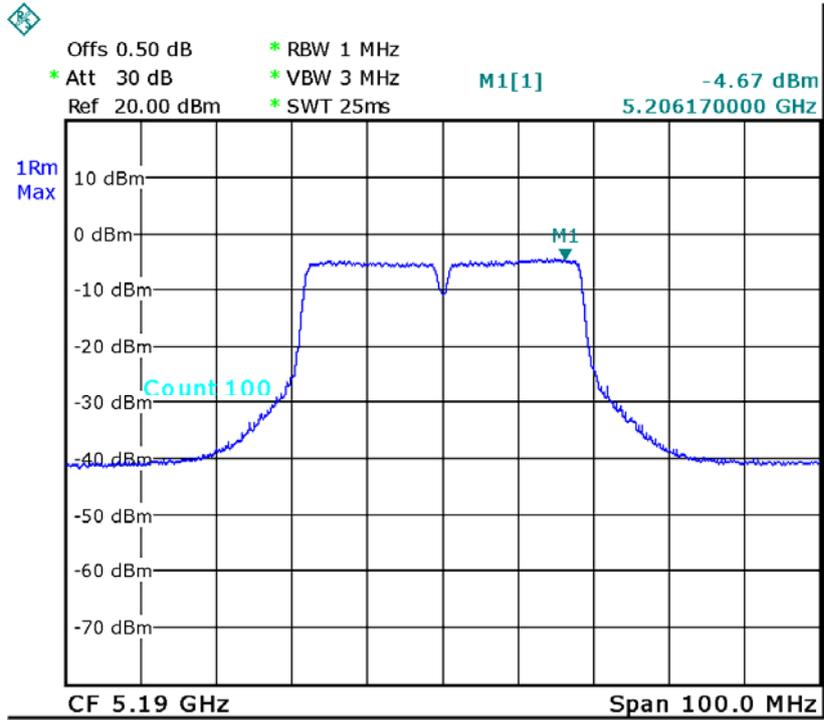
ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH38	5190	-4.67	4.00
CH46	5230	-4.28	4.00

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH38	5190	-4.43	4.00
CH46	5230	-4.22	4.00

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH38	5190	-1.54	4.00
CH46	5230	-1.24	4.00

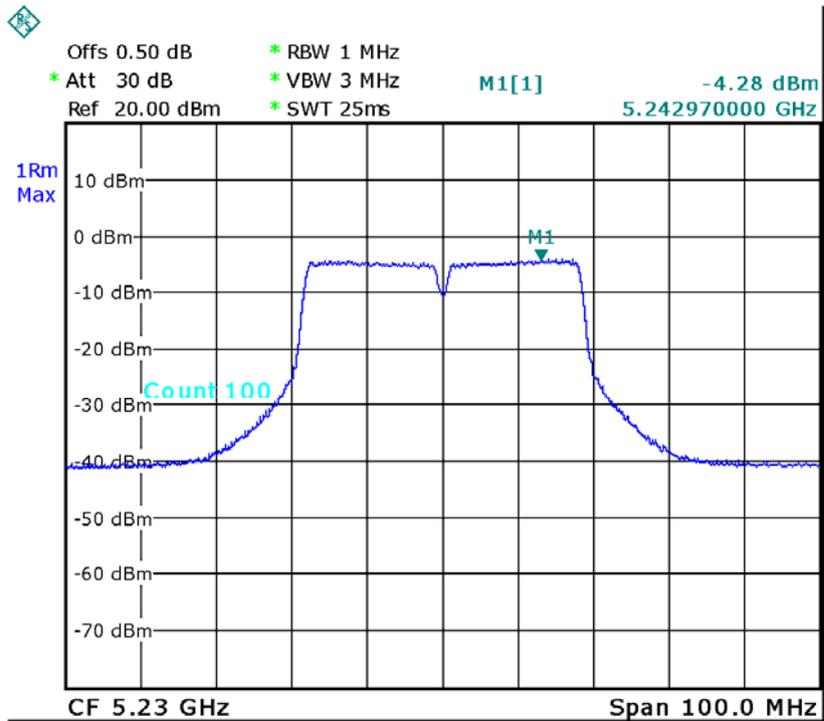


CH38-ANT 1



Date: 9.OCT.2012 14:50:07

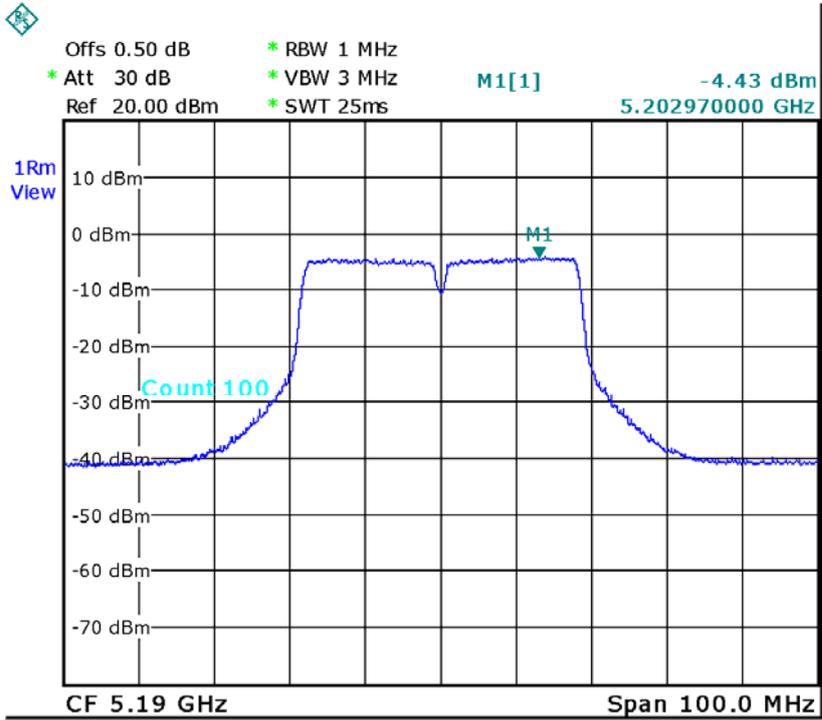
CH46-ANT 1



Date: 9.OCT.2012 14:53:51

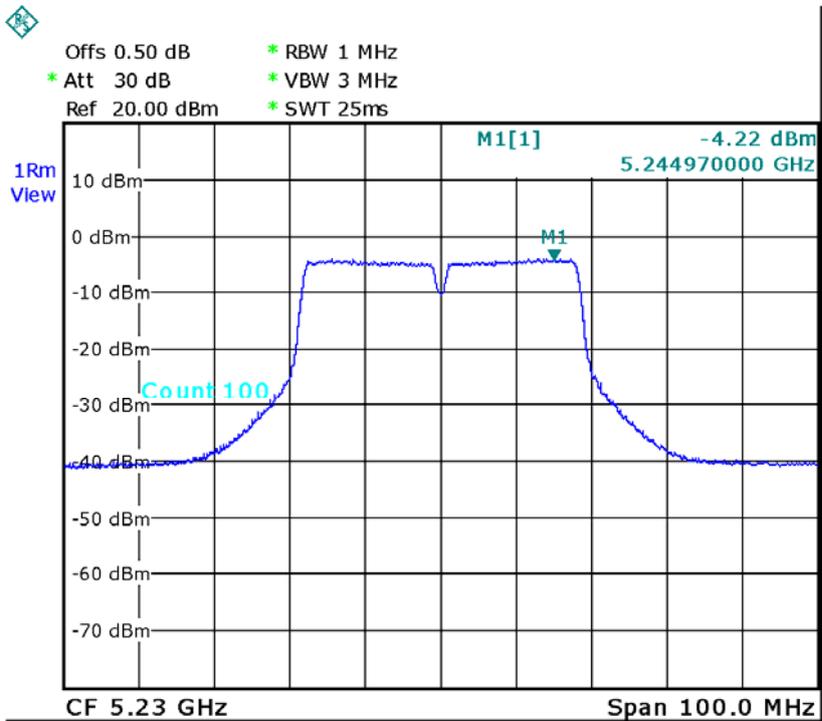


CH38-ANT 2



Date: 9.OCT.2012 14:50:56

CH46-ANT 2



Date: 9.OCT.2012 14:55:01



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX A Mode/CH52, CH56, CH64 - For 2TX		

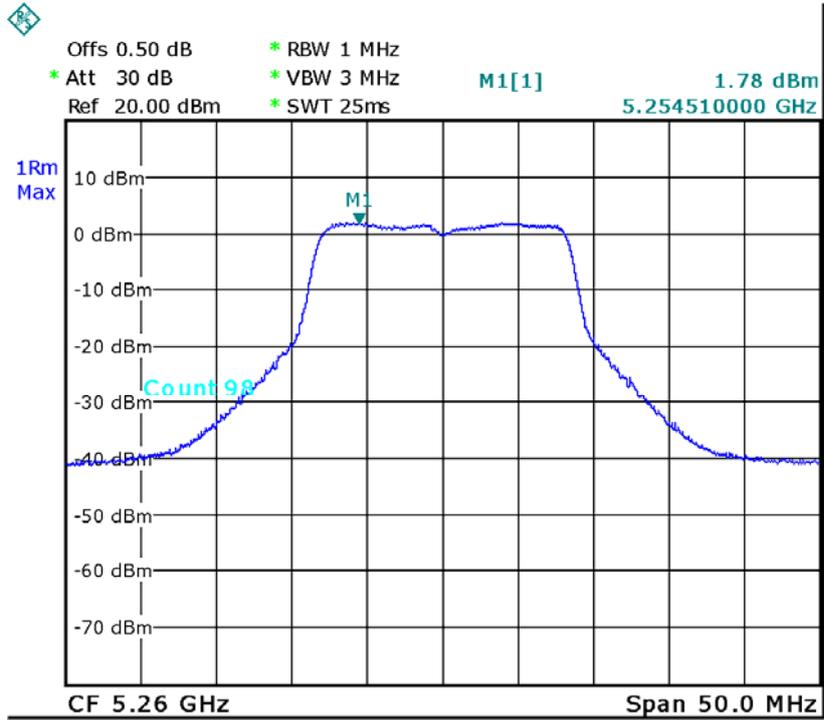
ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	2.21	11
CH56	5280	2.16	11
CH64	5320	1.78	11

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	2.27	11
CH56	5280	2.56	11
CH64	5320	2.46	11

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	5.25	11
CH56	5280	5.37	11
CH64	5320	5.14	11

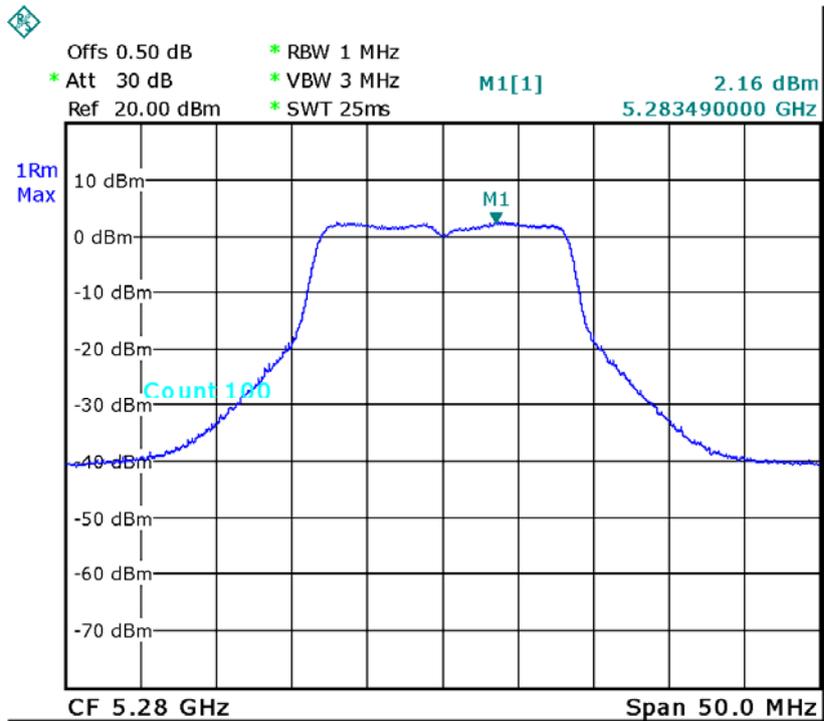


CH52-ANT 1



Date: 9.OCT.2012 15:41:12

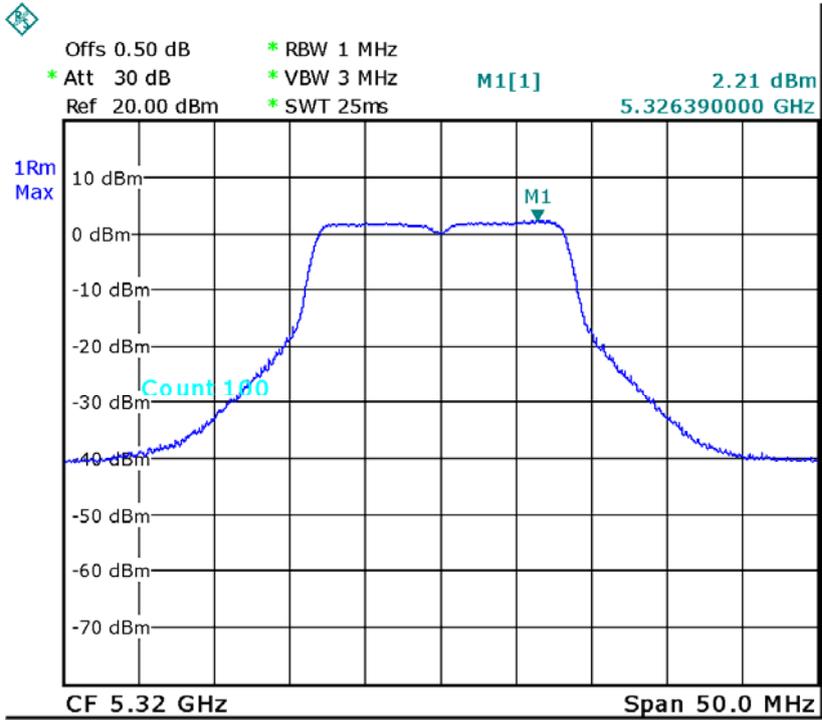
CH56-ANT 1



Date: 9.OCT.2012 15:43:18

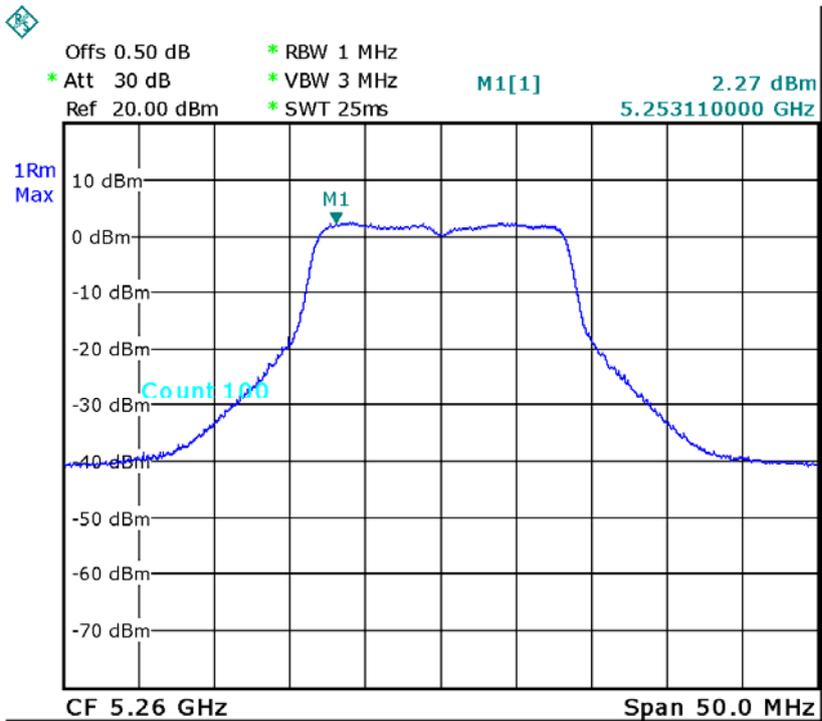


CH64-ANT 1



Date: 9.OCT.2012 15:49:12

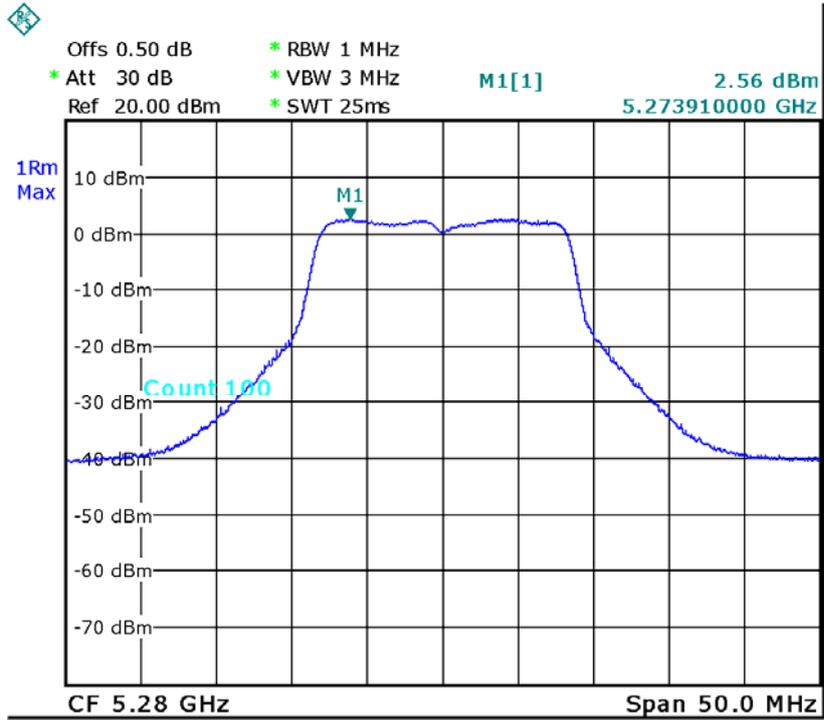
CH52-ANT 2



Date: 9.OCT.2012 15:41:23

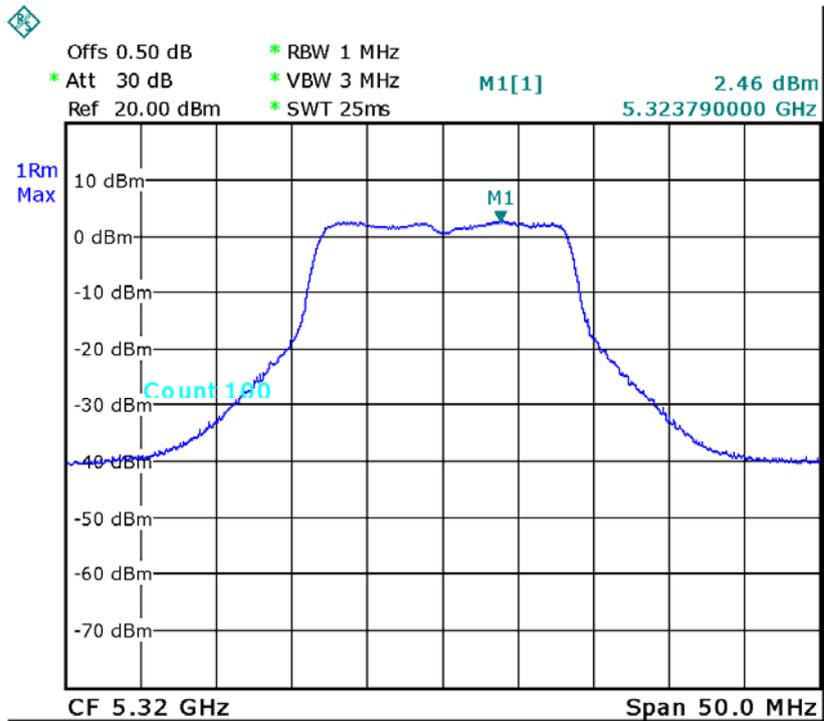


CH56-ANT 2



Date: 9.OCT.2012 15:43:35

CH64-ANT 2



Date: 9.OCT.2012 15:48:24



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX N20 Mode/CH52, CH56, CH64 - For 2TX		

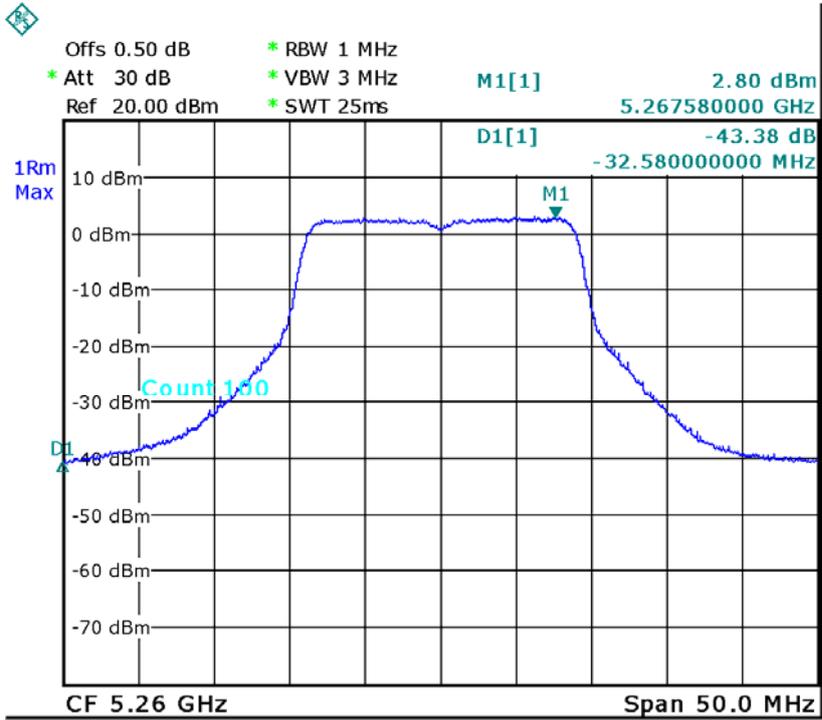
ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	2.80	11
CH56	5280	1.74	11
CH64	5320	2.64	11

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	2.59	11
CH56	5280	1.79	11
CH64	5320	2.80	11

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	5.71	11
CH56	5280	4.78	11
CH64	5320	5.73	11

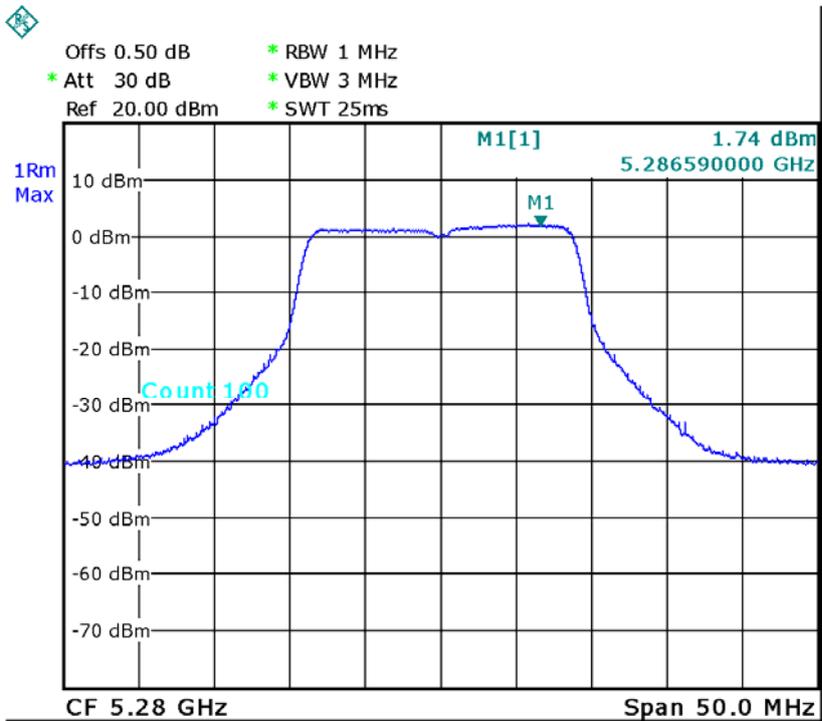


CH52-ANT 1



Date: 9.OCT.2012 16:21:19

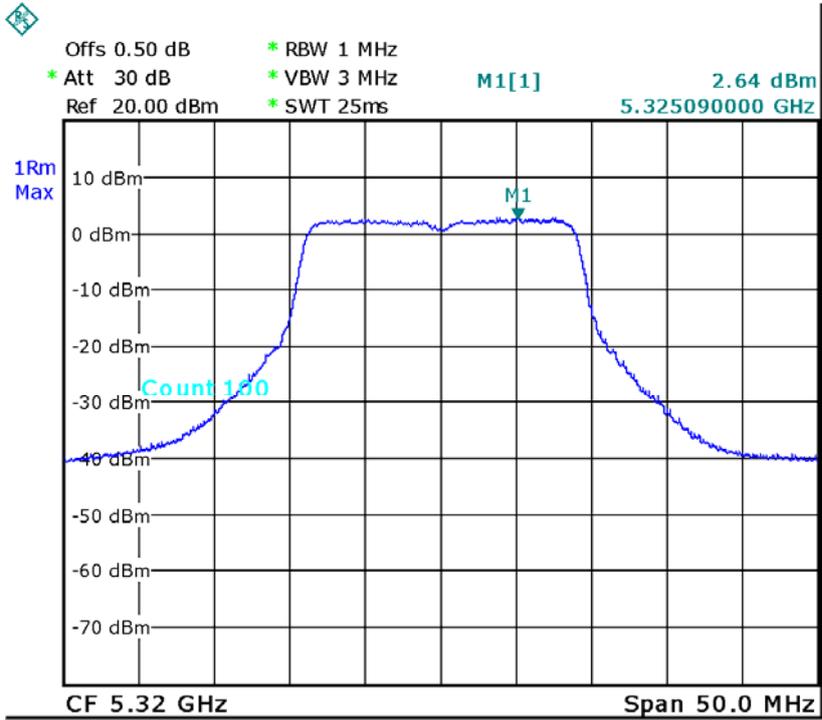
CH56-ANT 1



Date: 9.OCT.2012 16:18:59

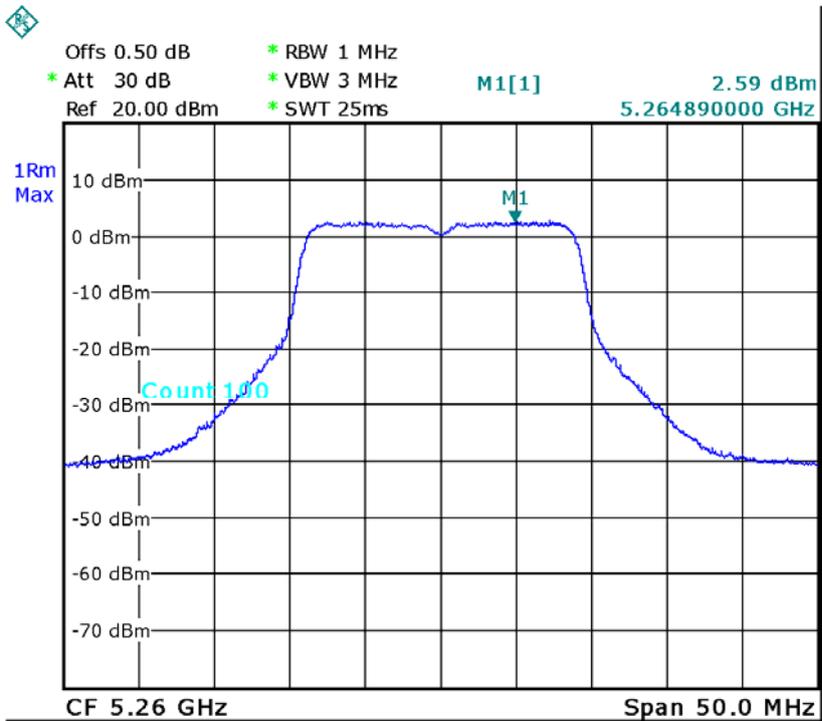


CH64-ANT 1



Date: 9.OCT.2012 16:15:17

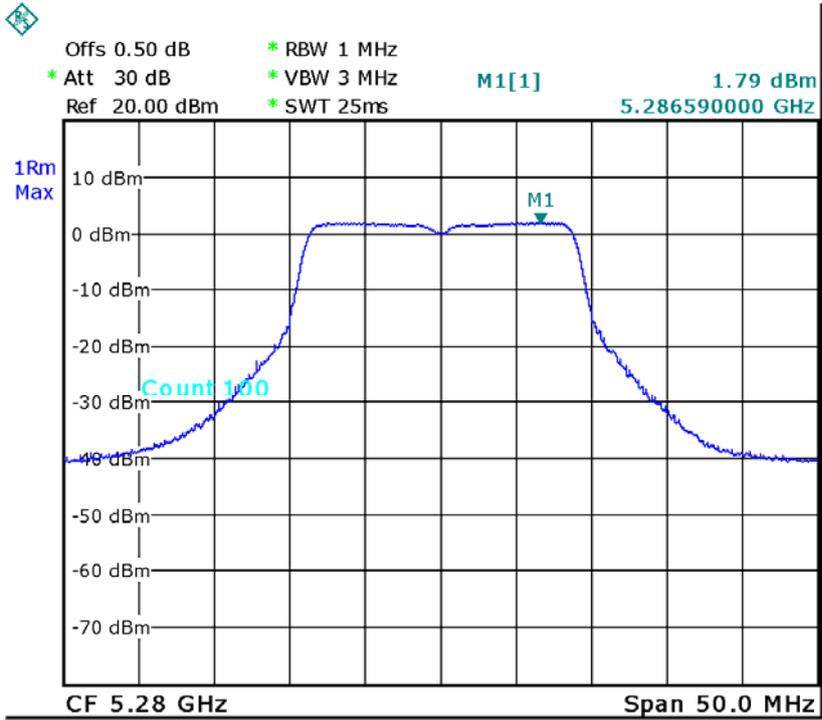
CH52-ANT 2



Date: 9.OCT.2012 16:20:22

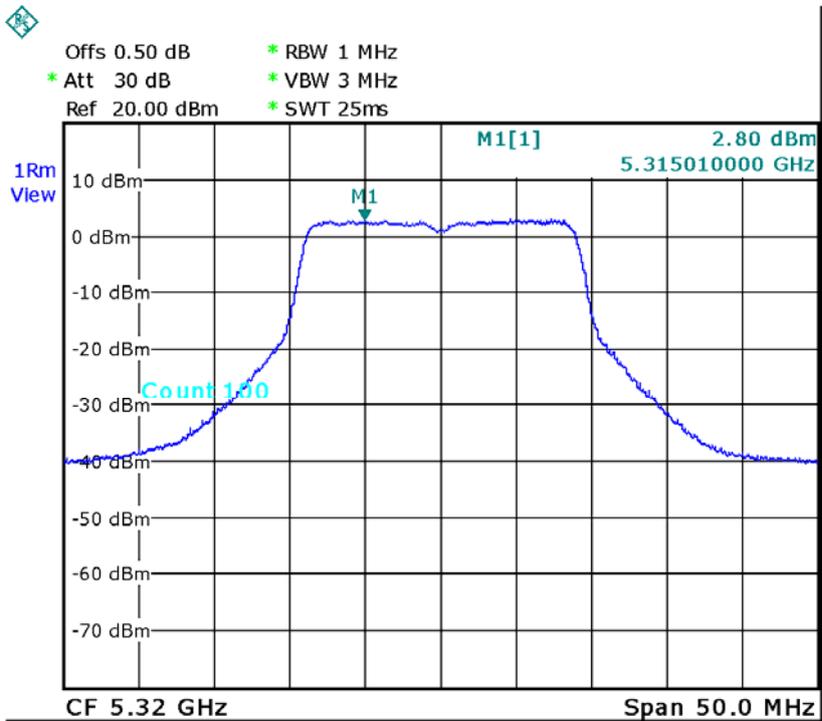


CH56-ANT 2



Date: 9.OCT.2012 16:17:48

CH64-ANT 2



Date: 9.OCT.2012 16:14:25



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX N40 Mode/CH54, CH62 - For 2TX		

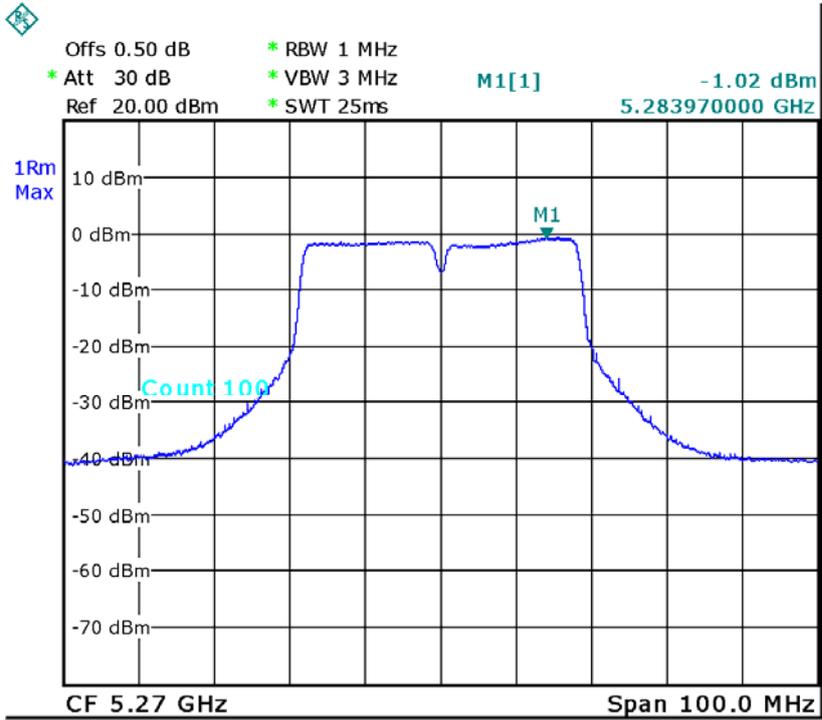
ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH54	5270	-1.02	11
CH62	5310	-1.01	11

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH54	5270	-0.50	11
CH62	5310	-0.83	11

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH54	5270	2.26	11
CH62	5310	2.09	11

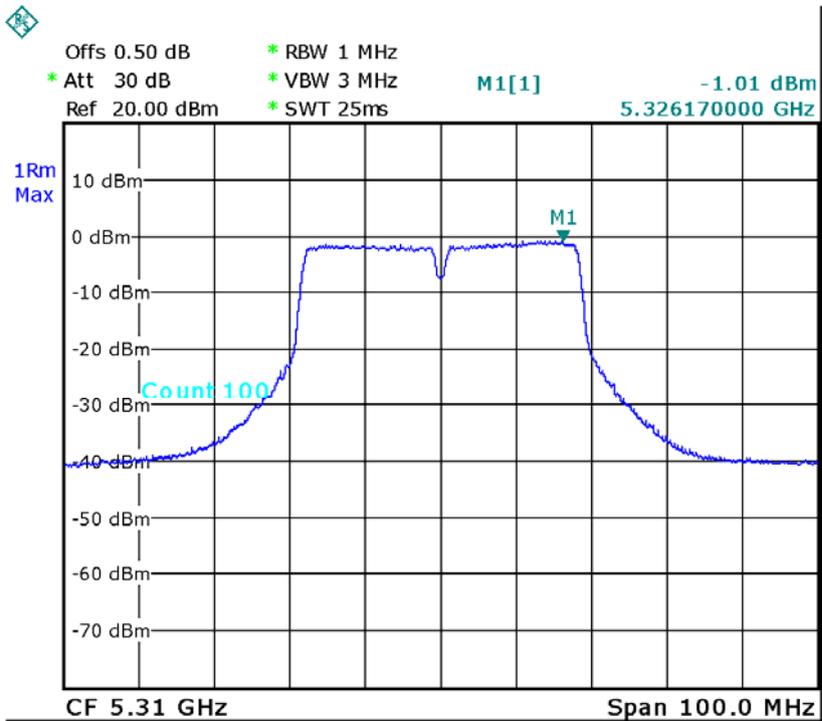


CH54-ANT 1



Date: 9.OCT.2012 14:59:47

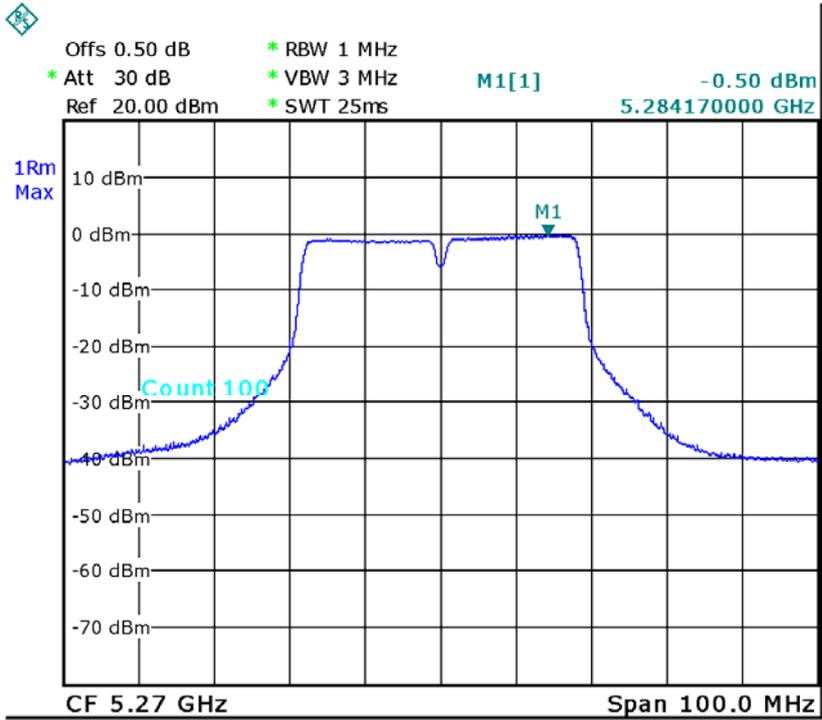
CH62-ANT 1



Date: 9.OCT.2012 15:05:19

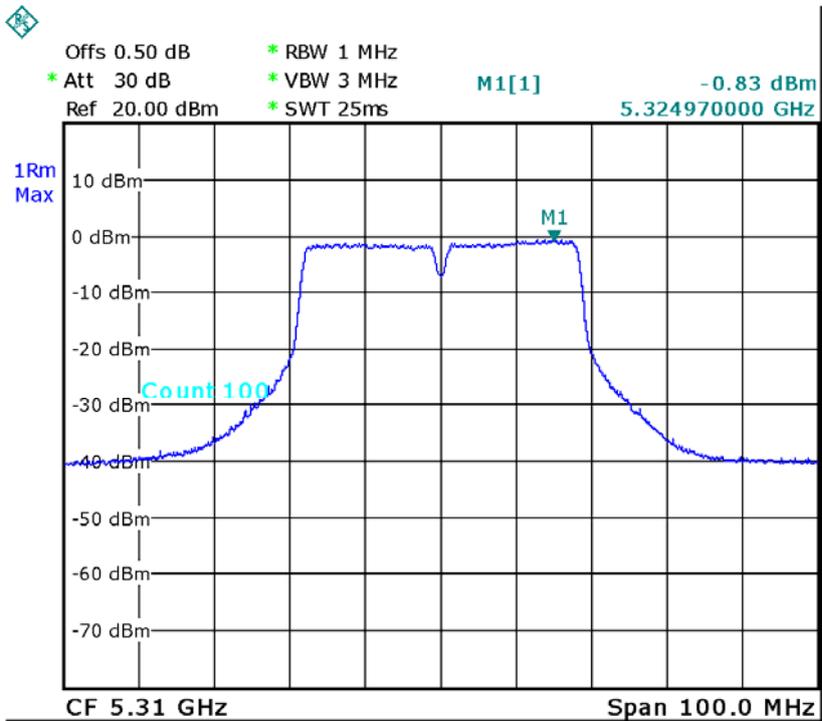


CH54-ANT 2



Date: 9.OCT.2012 15:00:12

CH62-ANT 2



Date: 9.OCT.2012 15:04:37



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX A Mode/CH100, CH116, CH140 - For 2TX		

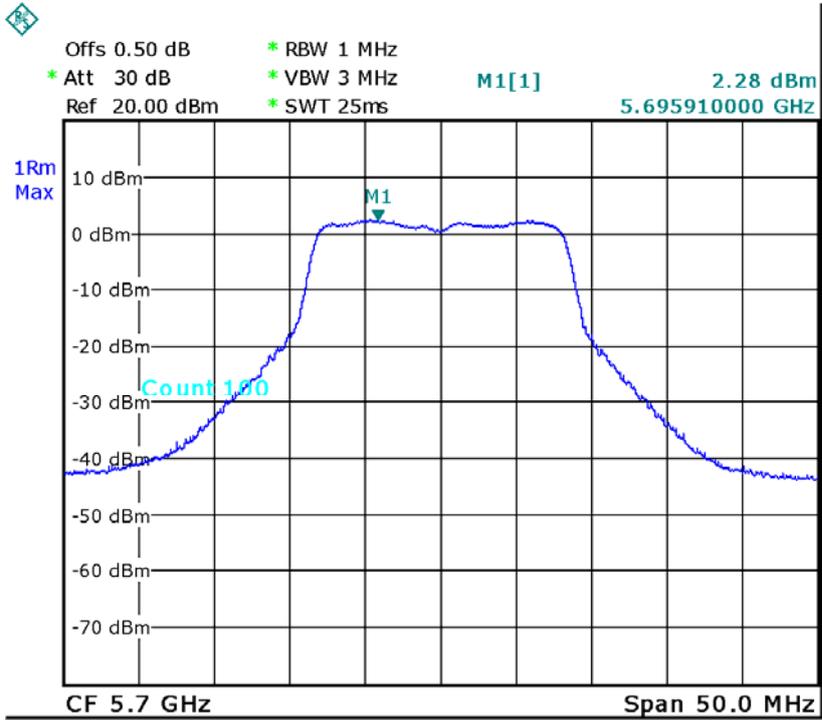
ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	2.28	11
CH116	5580	1.99	11
CH140	5700	2.36	11

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	3.47	11
CH116	5580	3.28	11
CH140	5700	2.76	11

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	5.93	11
CH116	5580	5.69	11
CH140	5700	5.57	11

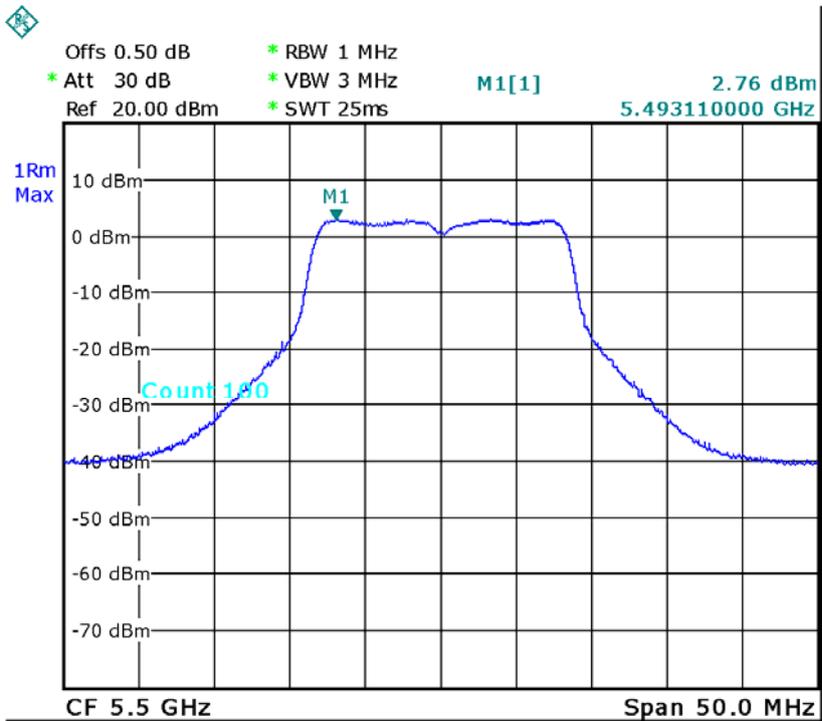


CH140-ANT 1



Date: 9.OCT.2012 16:01:17

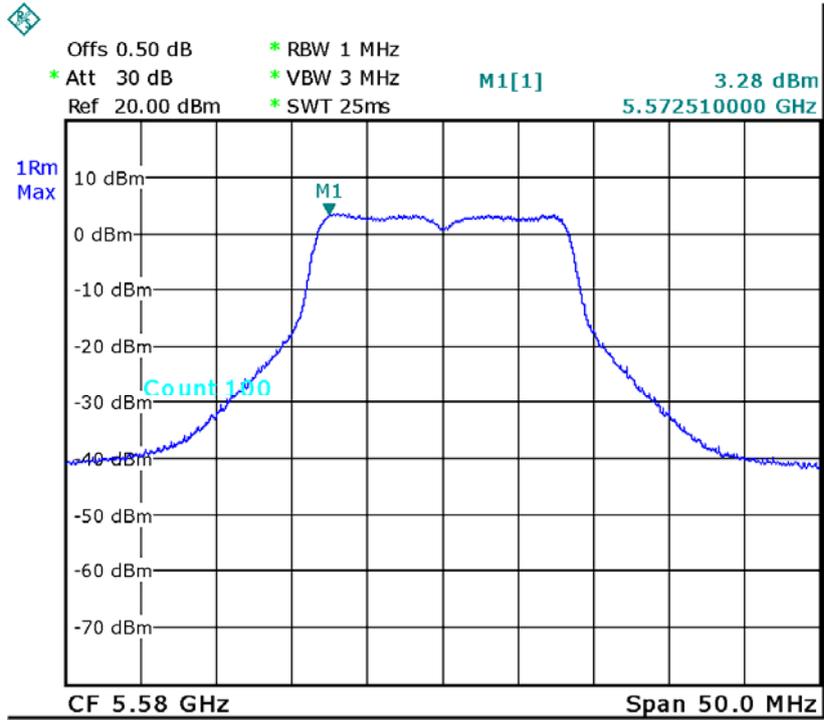
CH100-ANT 2



Date: 9.OCT.2012 15:56:02

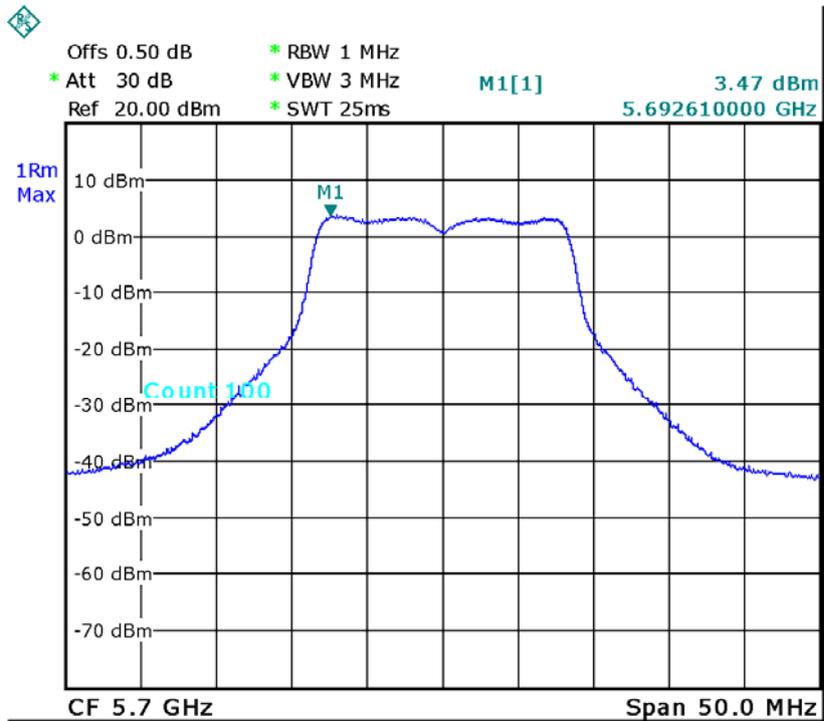


CH116-ANT 2



Date: 9.OCT.2012 15:58:33

CH140-ANT 2



Date: 9.OCT.2012 16:01:35



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX N20 Mode/CH100, CH116, CH140 - For 2TX		

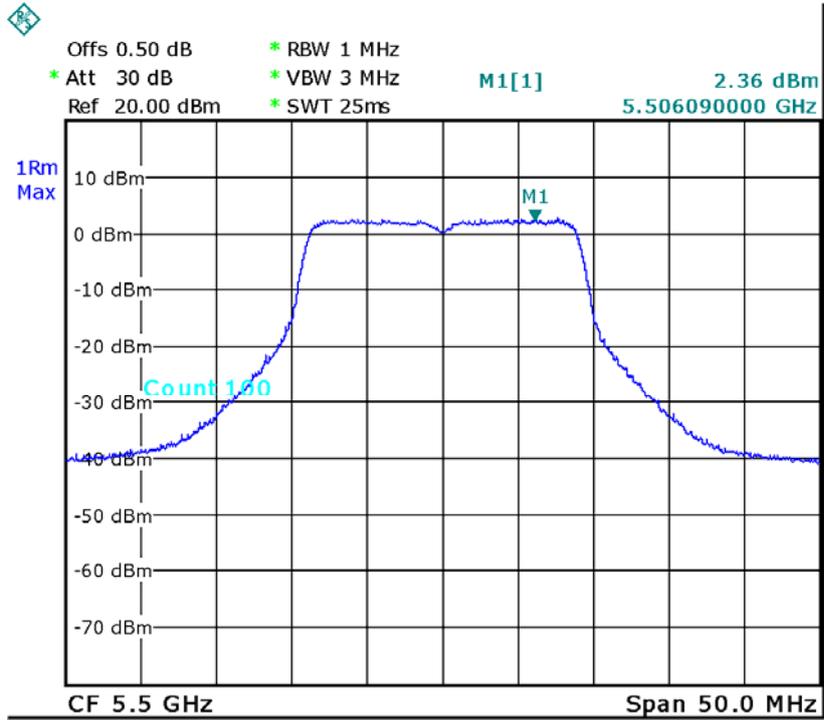
ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	2.36	11
CH116	5580	2.33	11
CH140	5700	1.79	11

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	2.61	11
CH116	5580	3.58	11
CH140	5700	3.40	11

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	5.50	11
CH116	5580	6.01	11
CH140	5700	5.68	11

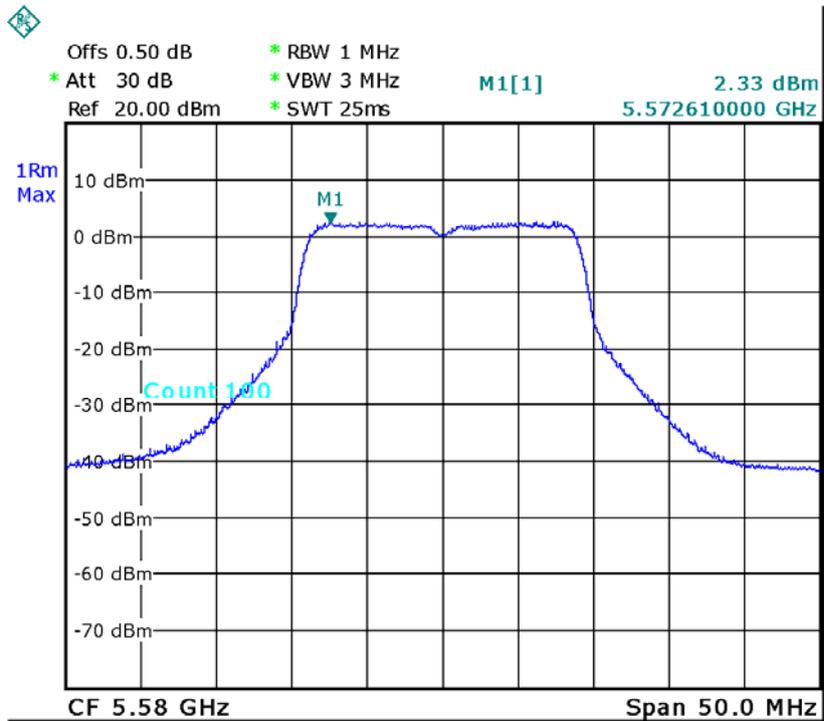


CH100-ANT 1



Date: 9.OCT.2012 16:11:32

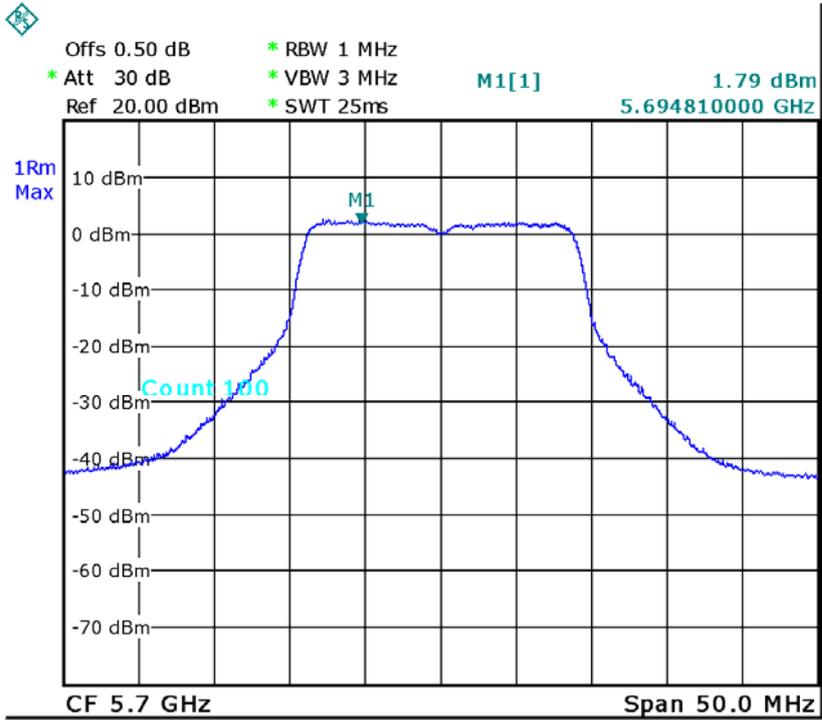
CH116-ANT 1



Date: 9.OCT.2012 16:07:23

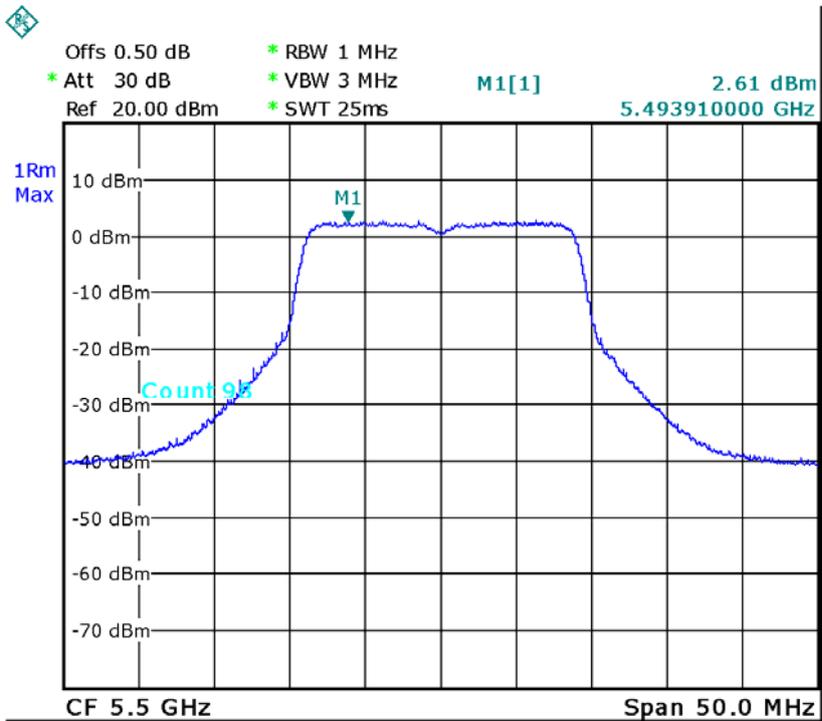


CH140-ANT 1



Date: 9.OCT.2012 16:05:43

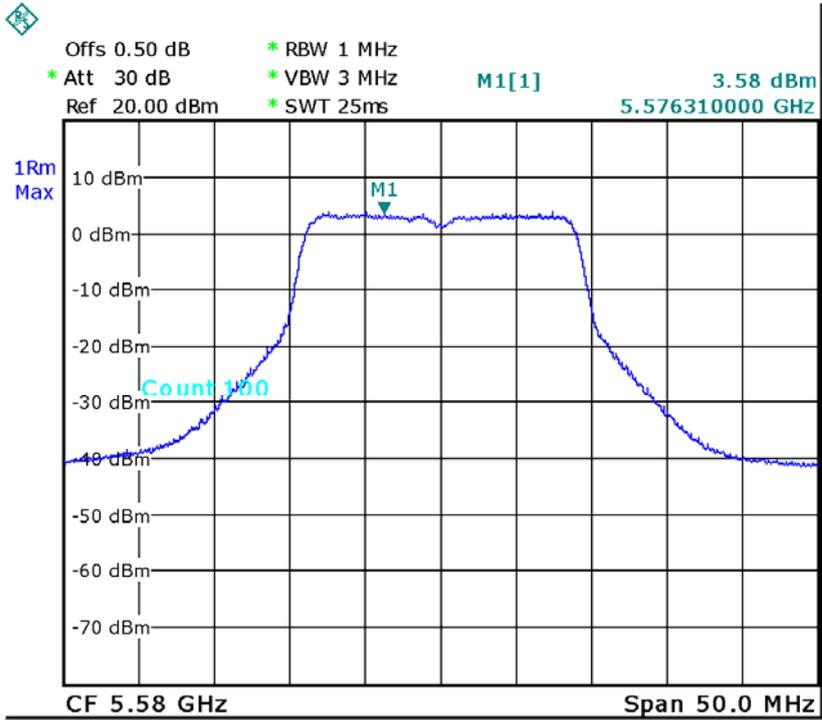
CH100-ANT 2



Date: 9.OCT.2012 16:10:38

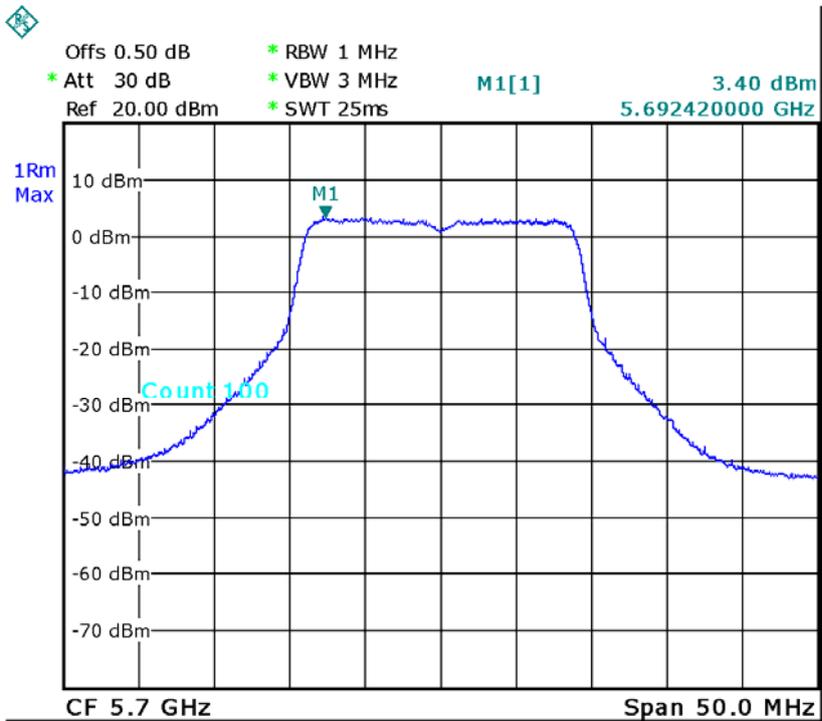


CH116-ANT 2



Date: 9.OCT.2012 16:07:46

CH140-ANT 2



Date: 9.OCT.2012 16:04:06



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX N40 Mode/CH102, CH110,CH134 - For 2TX		

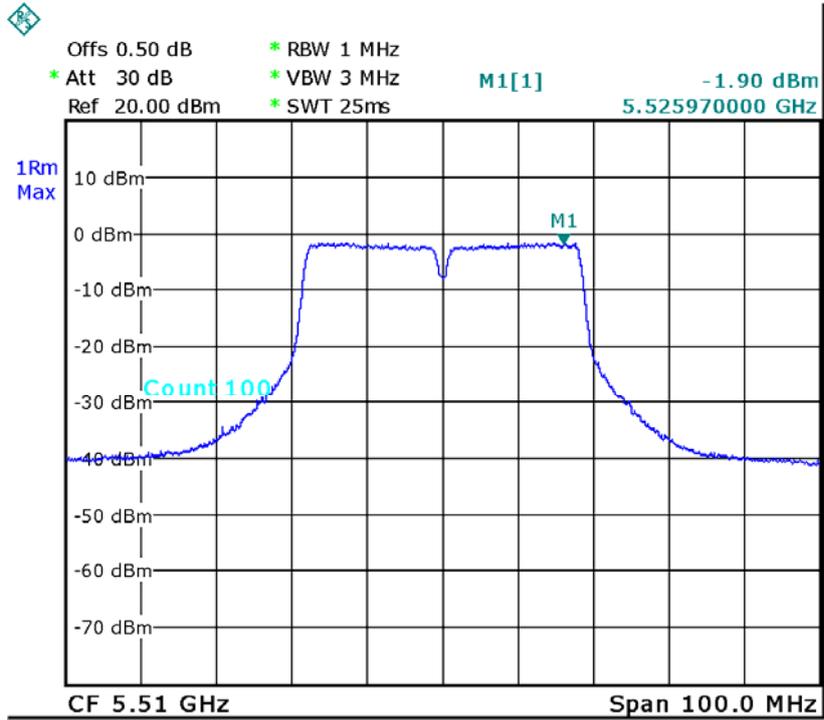
ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH102	5510	-0.49	11
CH110	5550	0.13	11
CH134	5670	-1.90	11

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH102	5510	-1.88	11
CH110	5550	0.34	11
CH134	5670	-0.45	11

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH102	5510	1.88	11
CH110	5550	3.25	11
CH134	5670	1.90	11

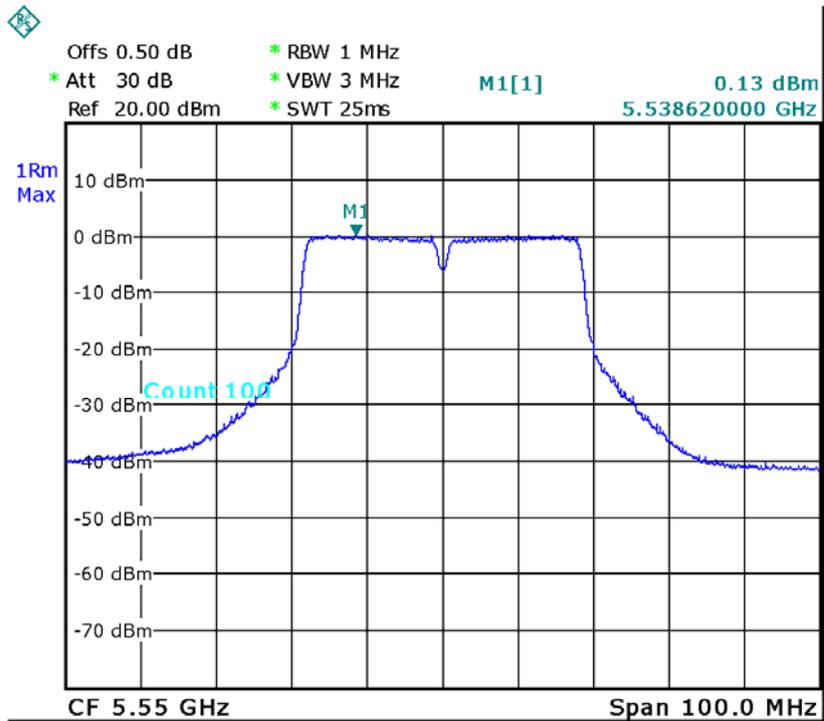


CH102-ANT 1



Date: 13.OCT.2012 13:27:40

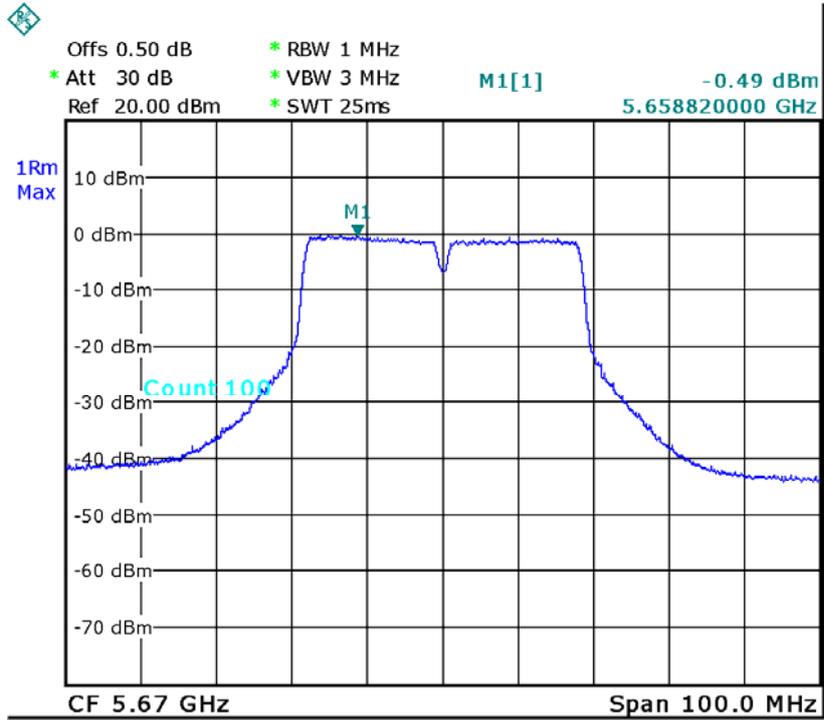
CH110-ANT 1



Date: 9.OCT.2012 15:15:32

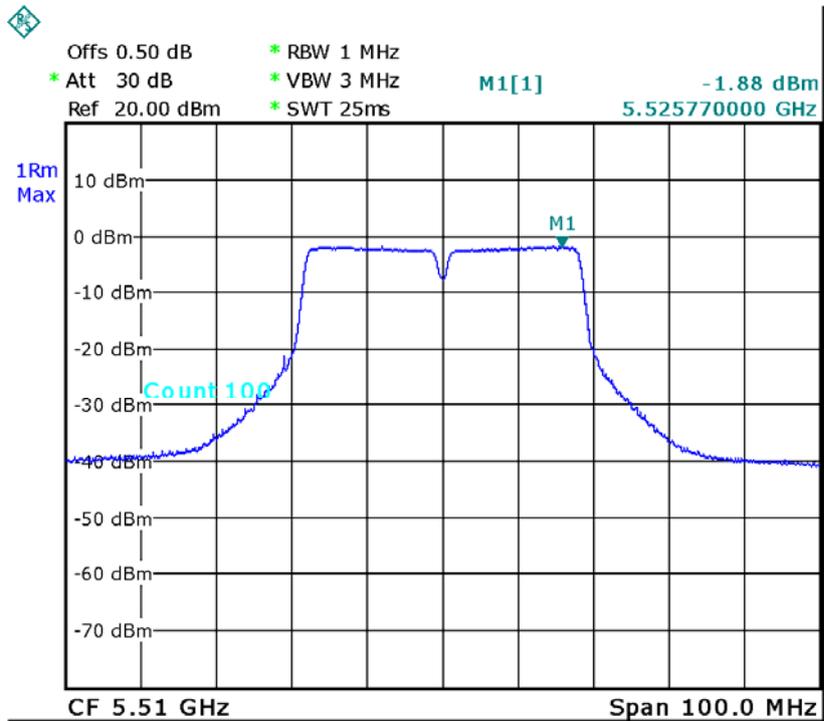


CH134-ANT 1



Date: 9.OCT.2012 15:19:39

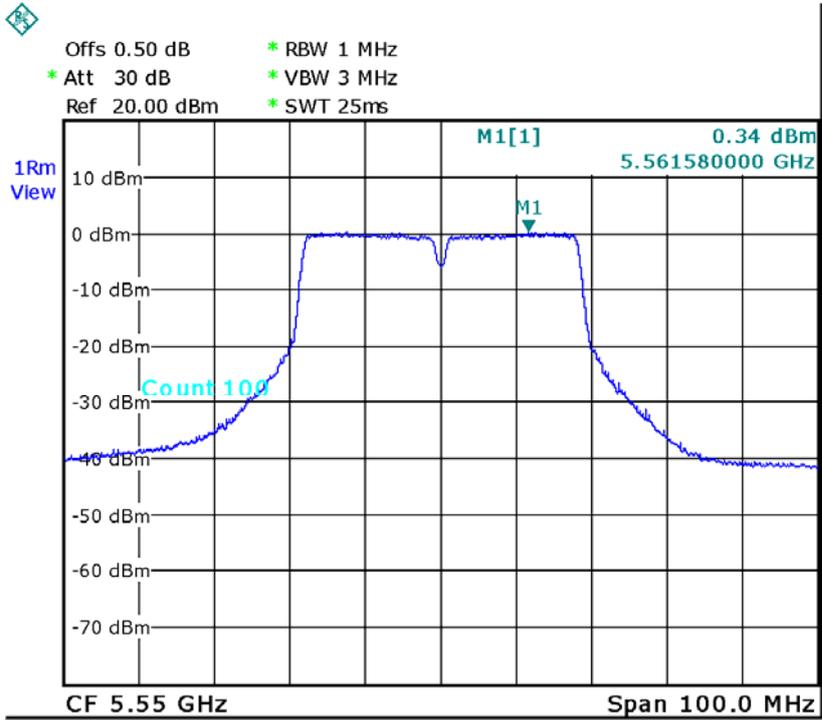
CH102-ANT 2



Date: 13.OCT.2012 13:24:23

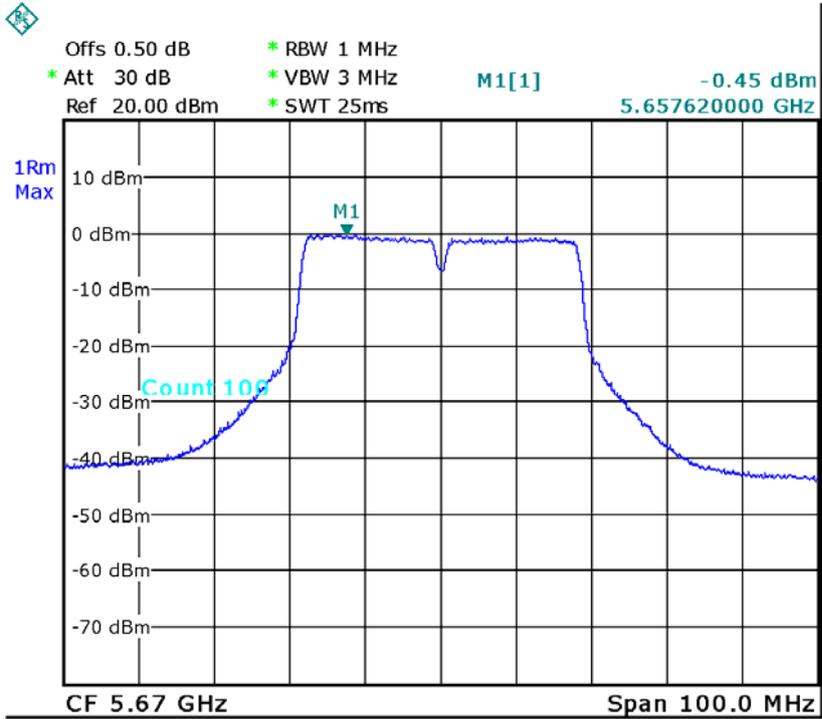


CH110-ANT 2



Date: 9.OCT.2012 15:16:27

CH134-ANT 2



Date: 9.OCT.2012 15:19:50



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX A Mode/CH36, CH40, CH48 - For 3TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	-3.29	4.00
CH40	5210	-2.63	4.00
CH48	5240	-1.73	4.00

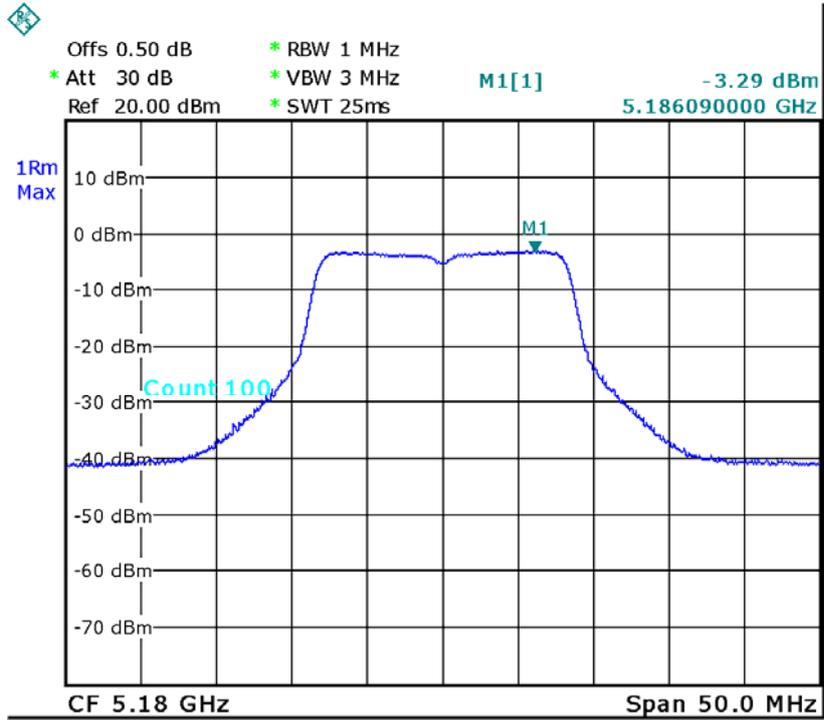
ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	-2.30	4.00
CH40	5210	-2.62	4.00
CH48	5240	-1.68	4.00

ANT 3			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	-1.26	4.00
CH40	5210	-2.16	4.00
CH48	5240	-2.47	4.00

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	2.57	4.00
CH40	5210	2.31	4.00
CH48	5240	2.83	4.00

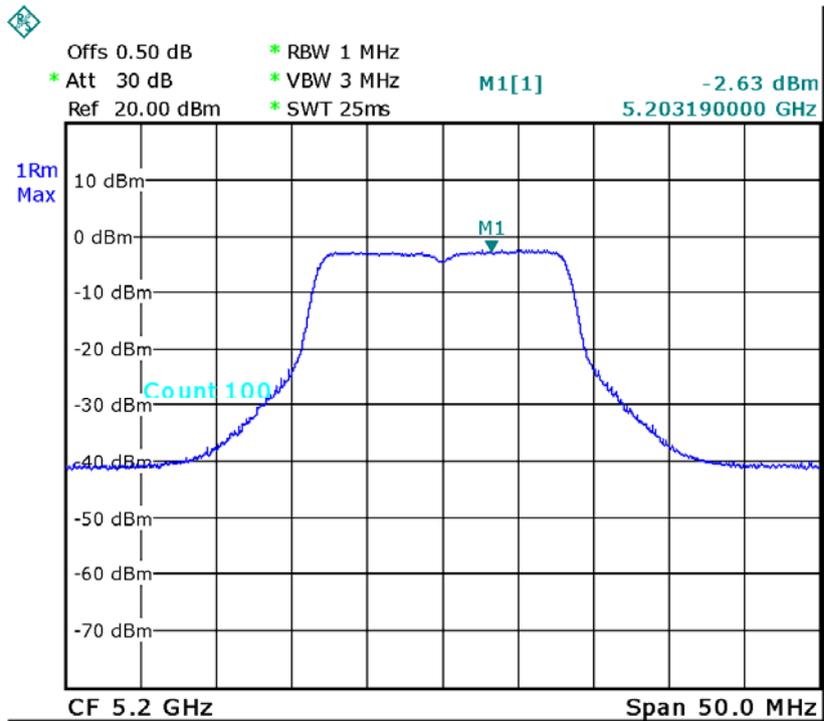


CH36-ANT 1



Date: 9.OCT.2012 17:17:41

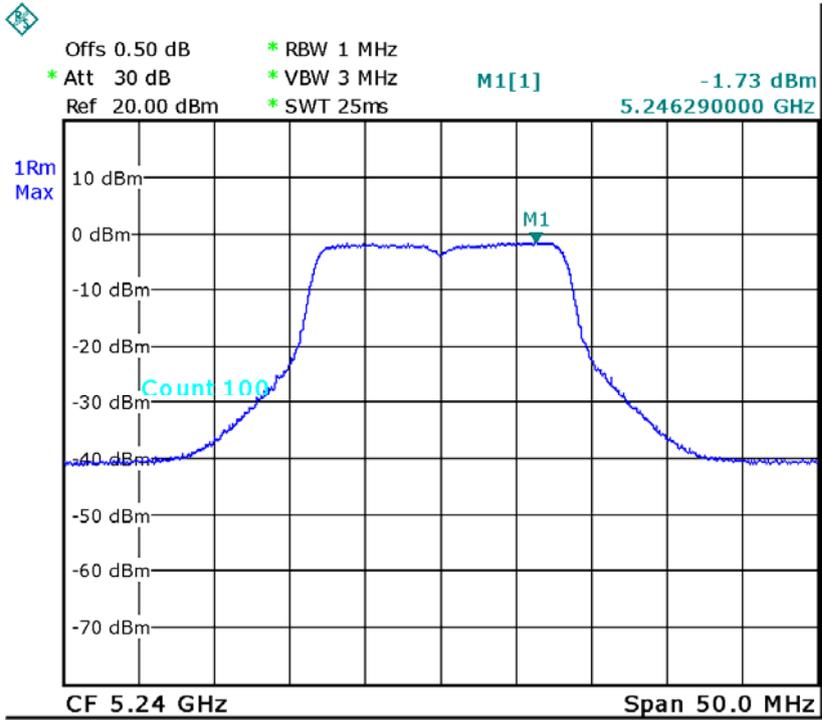
CH40-ANT 1



Date: 9.OCT.2012 17:26:56

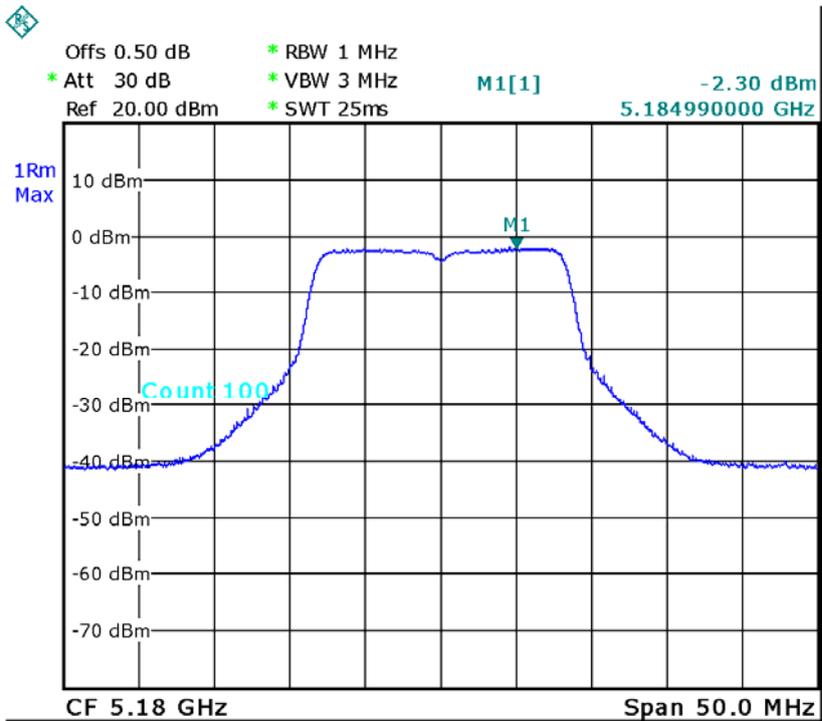


CH48-ANT 1



Date: 9.OCT.2012 17:30:42

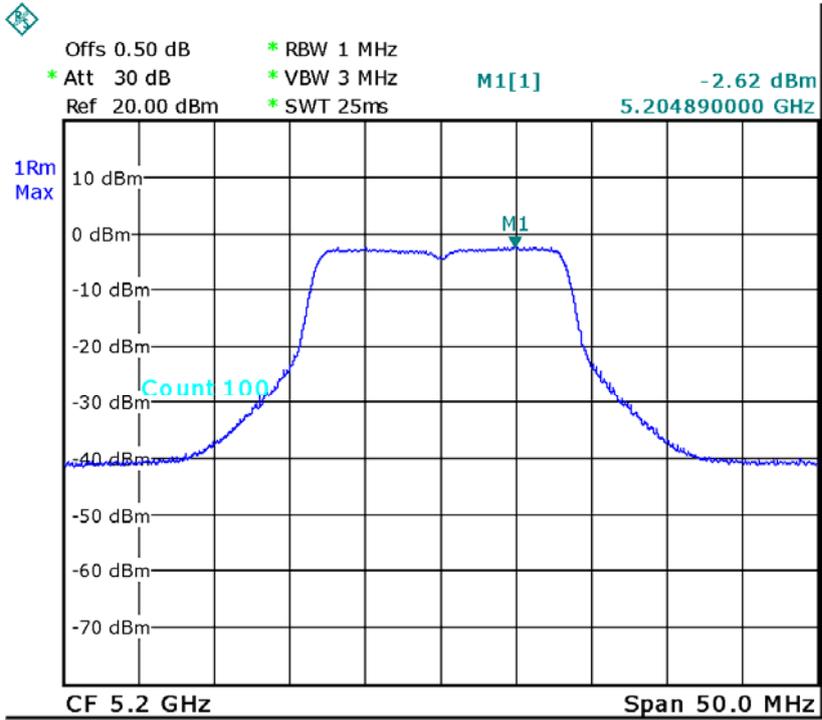
CH36-ANT 2



Date: 9.OCT.2012 17:18:04

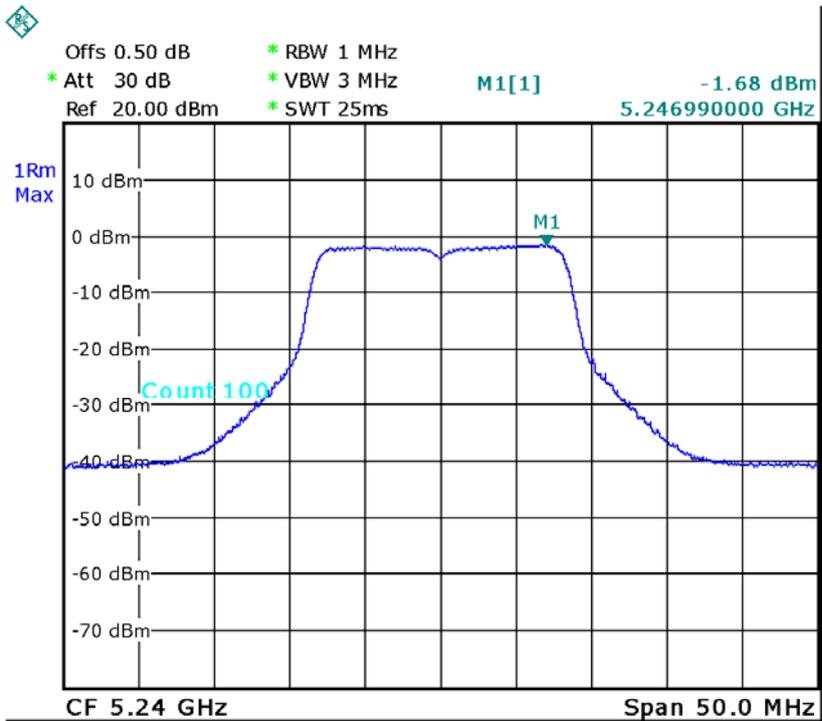


CH40-ANT 2



Date: 9.OCT.2012 17:27:13

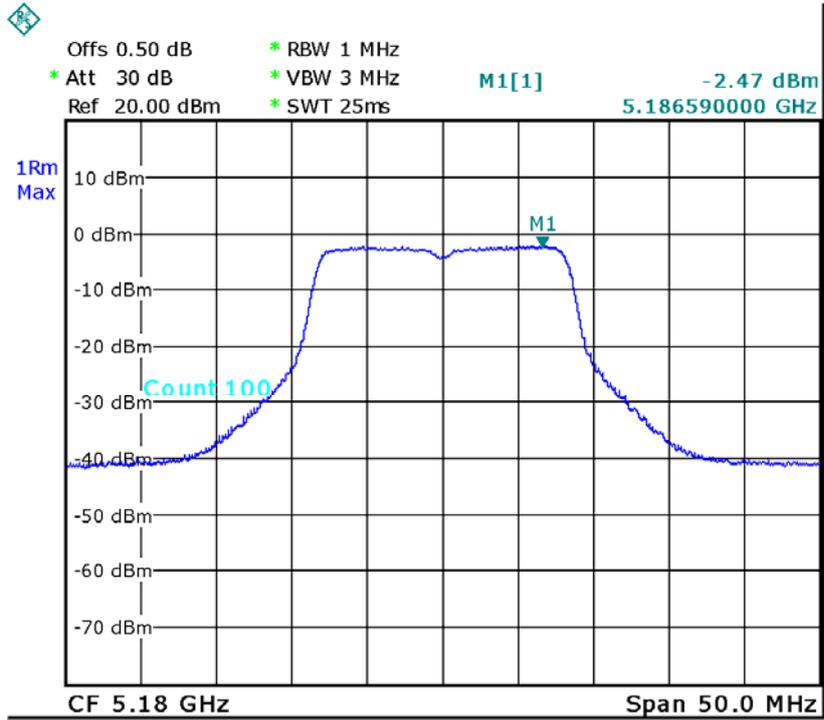
CH48-ANT 2



Date: 9.OCT.2012 17:30:30

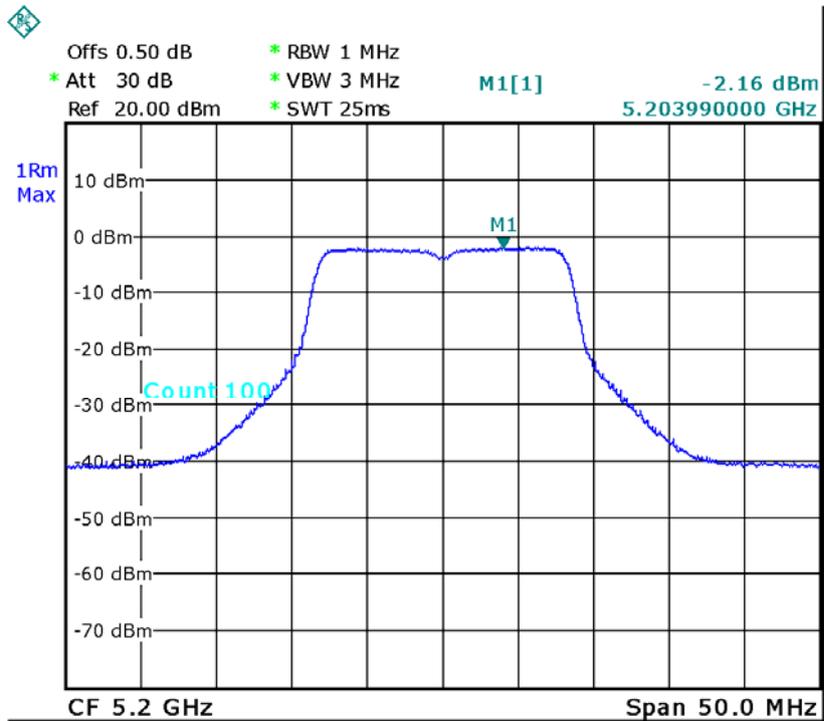


CH36-ANT 3



Date: 9.OCT.2012 17:18:12

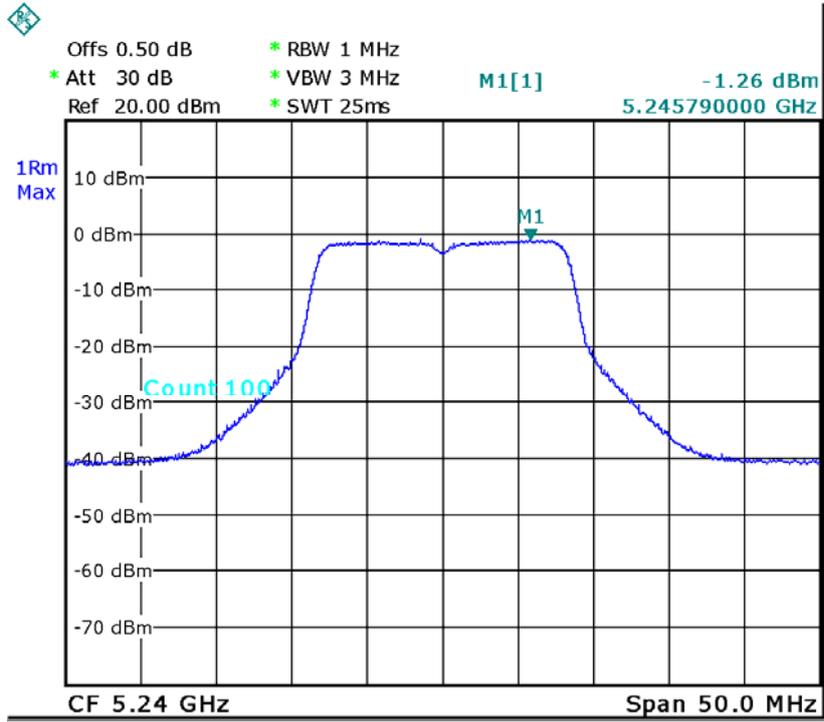
CH40-ANT 3



Date: 9.OCT.2012 17:25:34



CH48-ANT 3



Date: 9.OCT.2012 17:29:47



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX N20 Mode/CH36, CH40, CH48 - For 3TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	-2.90	4.00
CH40	5210	-3.15	4.00
CH48	5240	-3.53	4.00

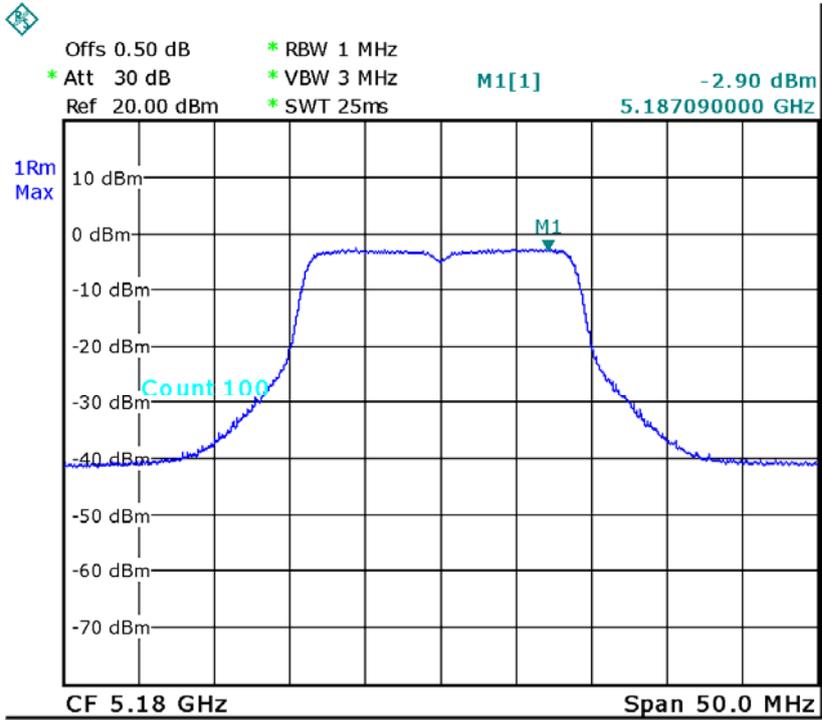
ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	-2.63	4.00
CH40	5210	-2.80	4.00
CH48	5240	-2.05	4.00

ANT 3			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	-2.98	4.00
CH40	5210	-2.22	4.00
CH48	5240	-1.77	4.00

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH36	5180	1.94	4.00
CH40	5210	2.06	4.00
CH48	5240	2.39	4.00

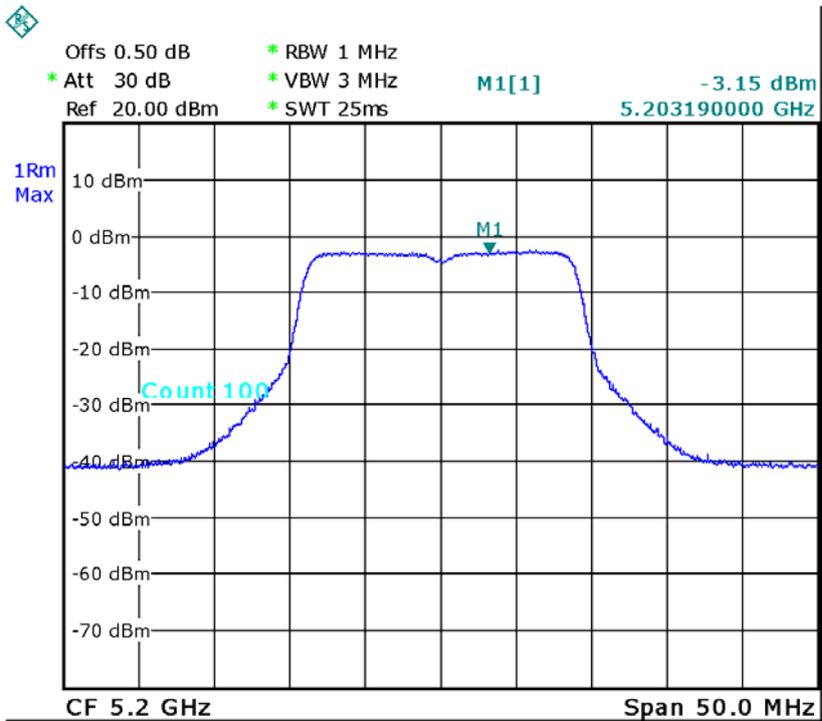


CH36-ANT 1



Date: 9.OCT.2012 18:05:21

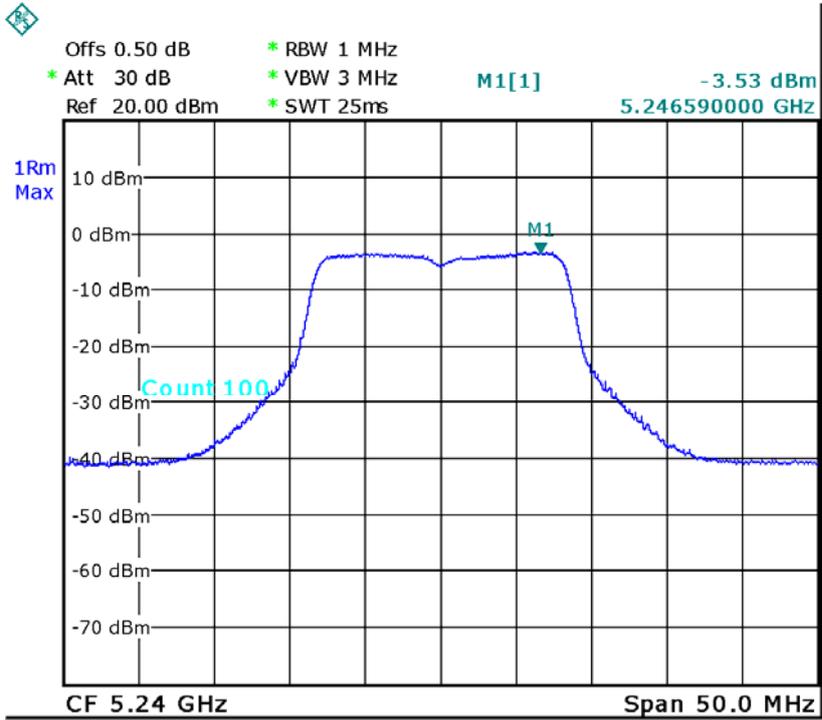
CH40-ANT 1



Date: 9.OCT.2012 18:11:32

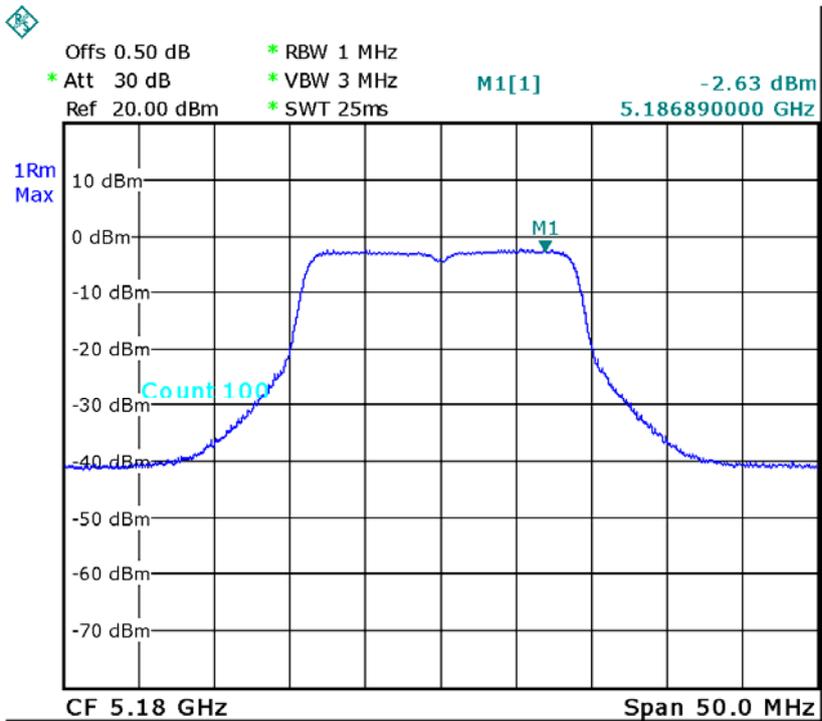


CH48-ANT 1



Date: 9.OCT.2012 18:16:35

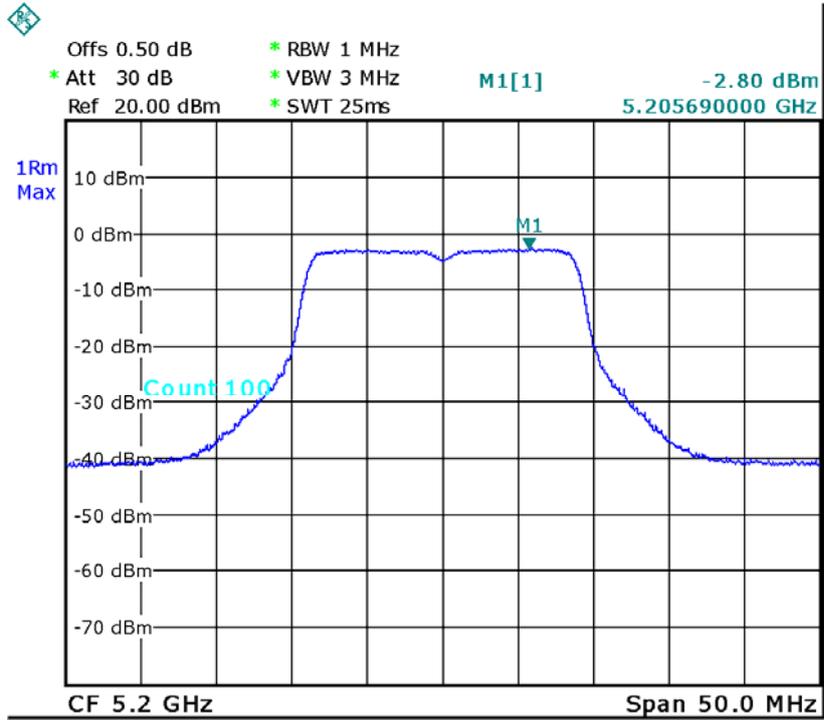
CH36-ANT 2



Date: 9.OCT.2012 18:06:25

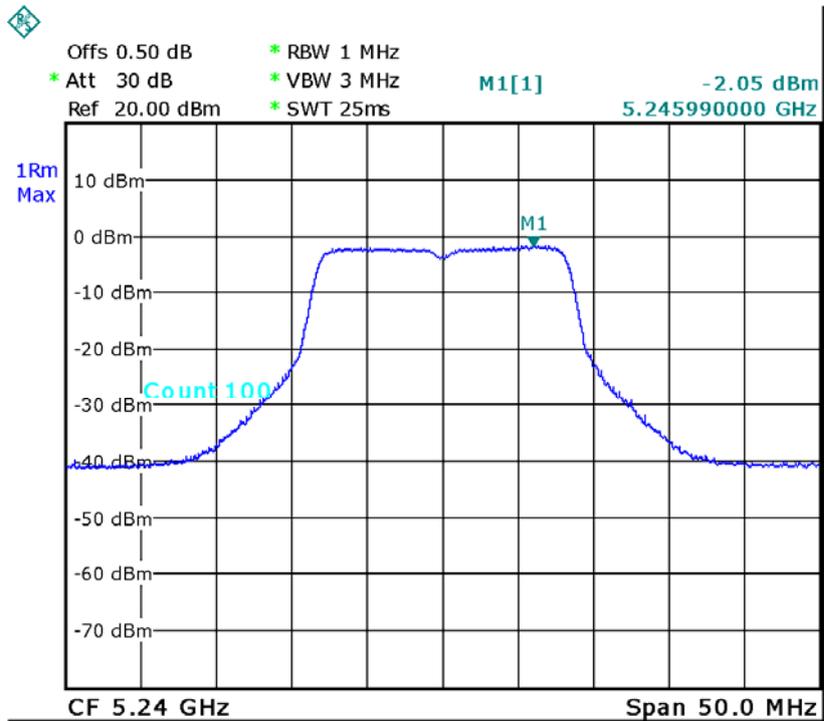


CH40-ANT 2



Date: 9.OCT.2012 18:11:22

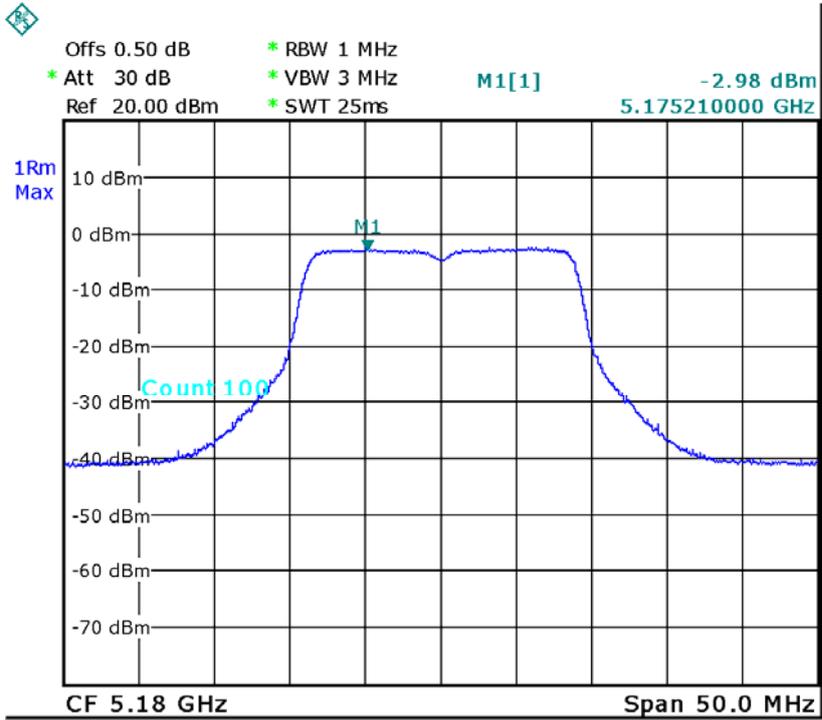
CH48-ANT 2



Date: 9.OCT.2012 18:15:25

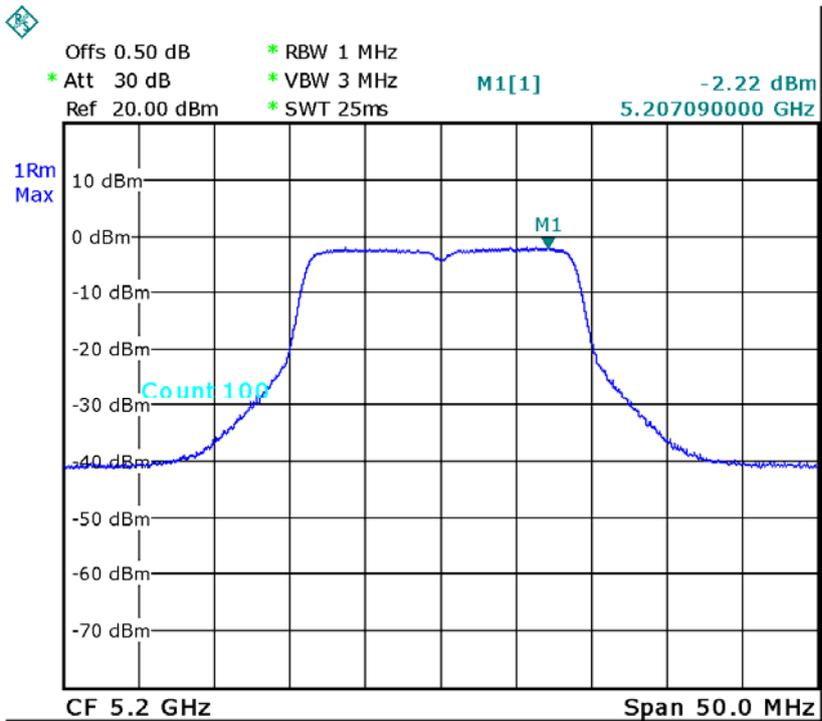


CH36-ANT 3



Date: 9.OCT.2012 18:04:44

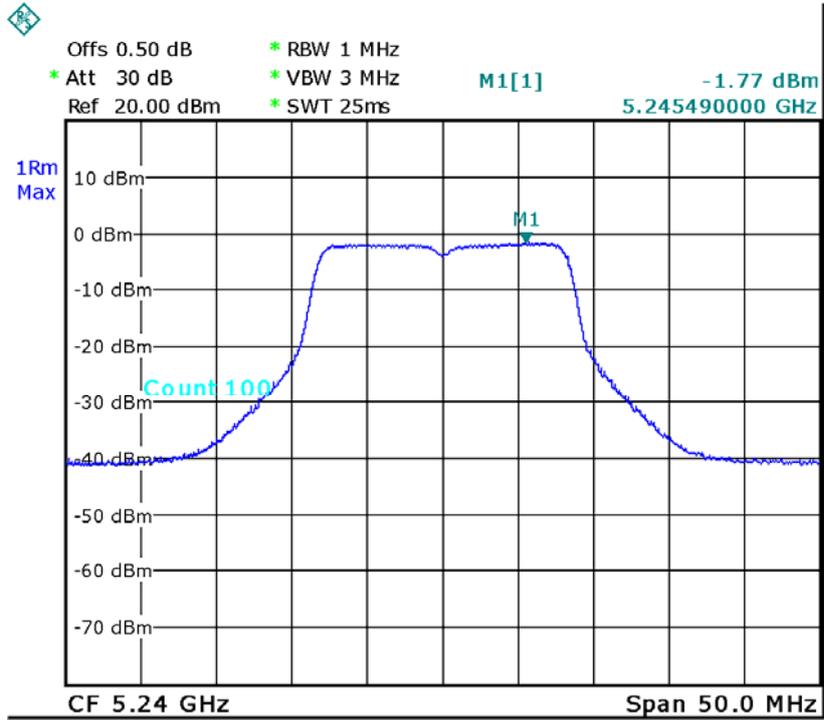
CH40-ANT 3



Date: 9.OCT.2012 18:10:10



CH48-ANT 3



Date: 9.OCT.2012 18:14:27



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX N40 Mode/CH38, CH46 - For 3TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH38	5190	-5.43	4.00
CH46	5230	-6.54	4.00

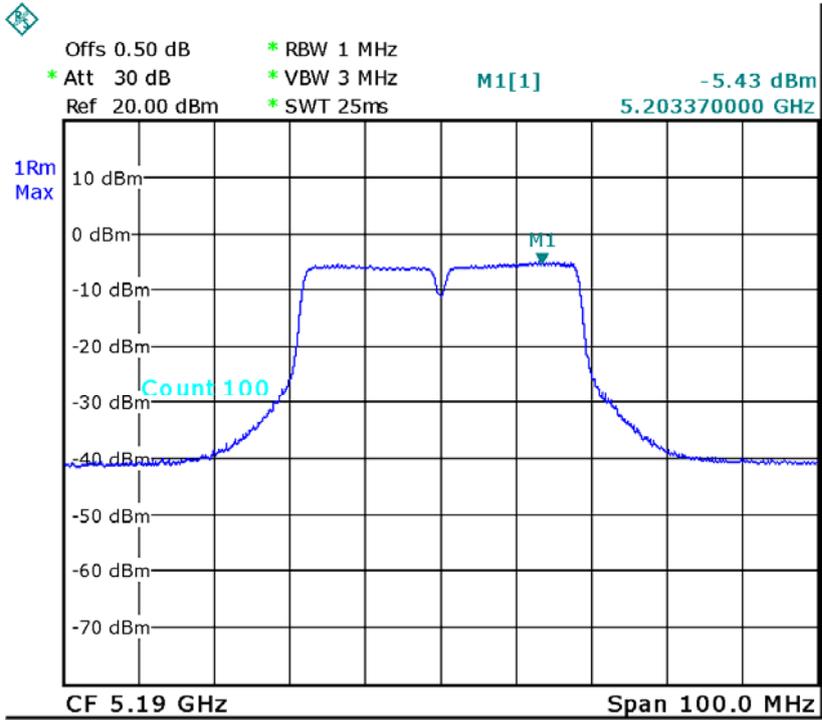
ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH38	5190	-5.15	4.00
CH46	5230	-6.07	4.00

ANT 3			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH38	5190	-5.09	4.00
CH46	5230	-4.39	4.00

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH38	5190	-0.45	4.00
CH46	5230	-0.79	4.00

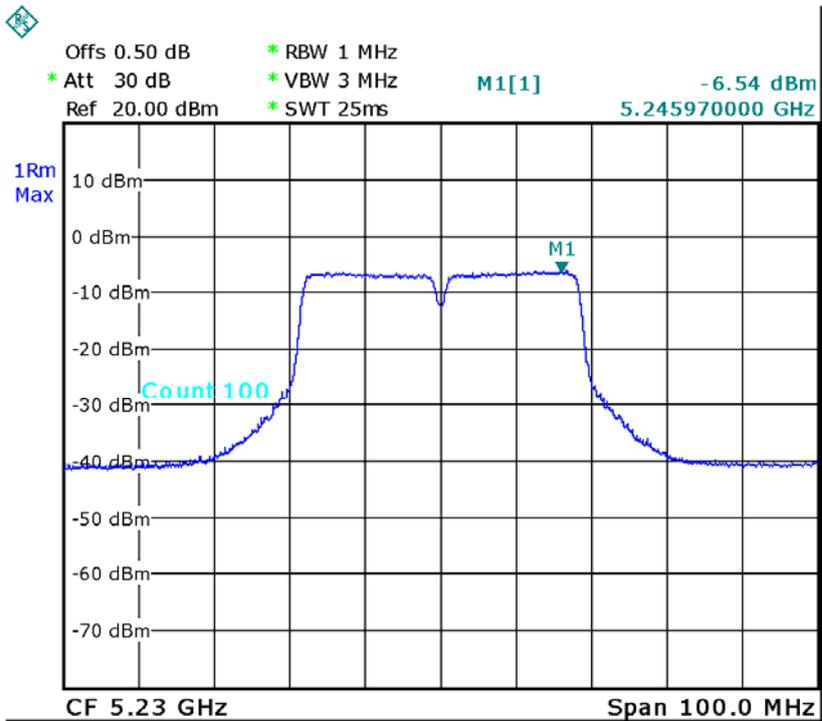


CH38-ANT 1



Date: 9.OCT.2012 19:02:58

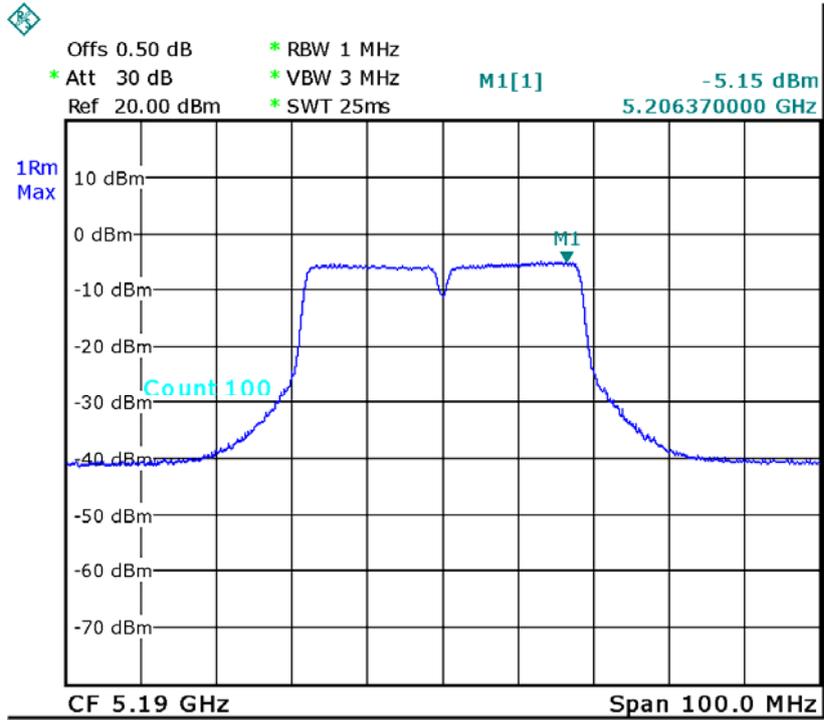
CH46-ANT 1



Date: 9.OCT.2012 19:13:42

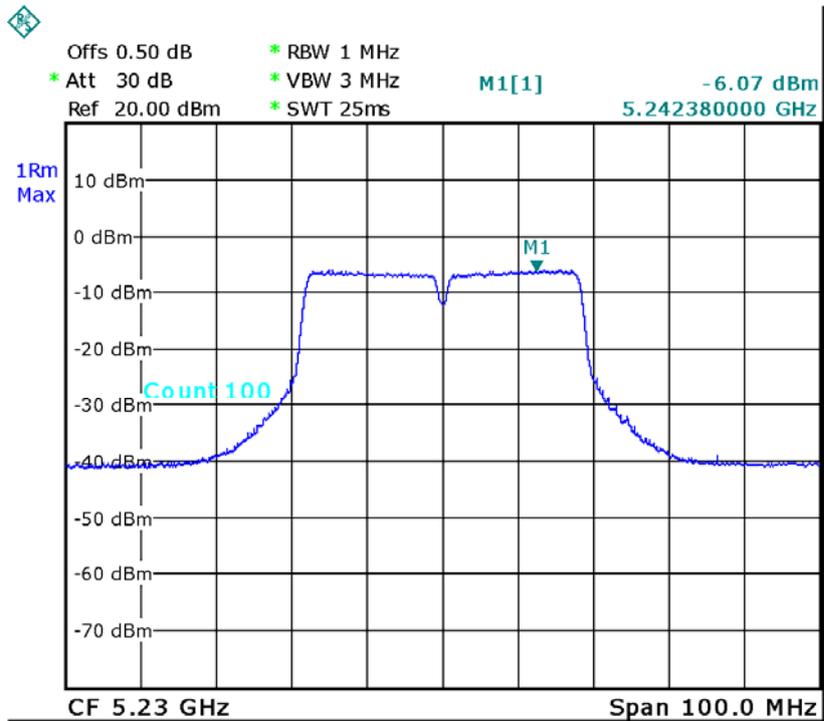


CH38-ANT 2



Date: 9.OCT.2012 19:03:05

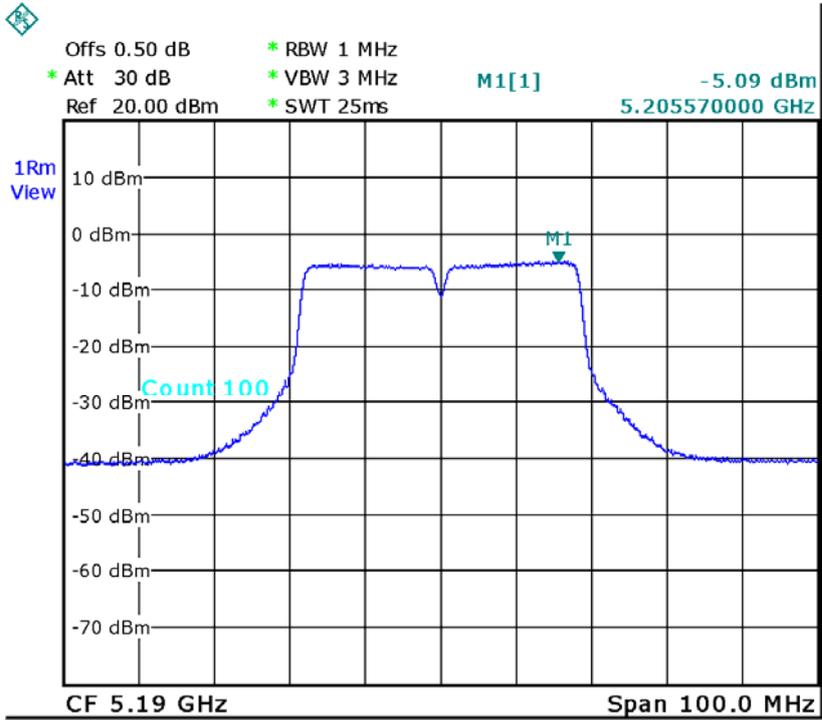
CH46-ANT 2



Date: 9.OCT.2012 19:13:17

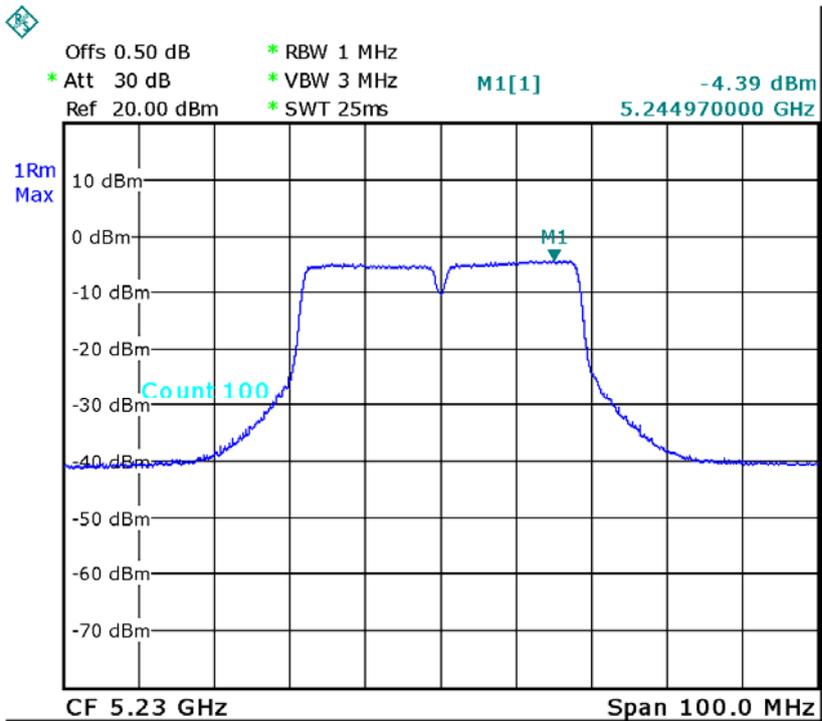


CH38-ANT 3



Date: 9.OCT.2012 19:03:24

CH46-ANT 3



Date: 9.OCT.2012 19:11:51



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX A Mode/CH52, CH56, CH64 - For 3TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	-0.24	11
CH56	5280	0.81	11
CH64	5320	1.22	11

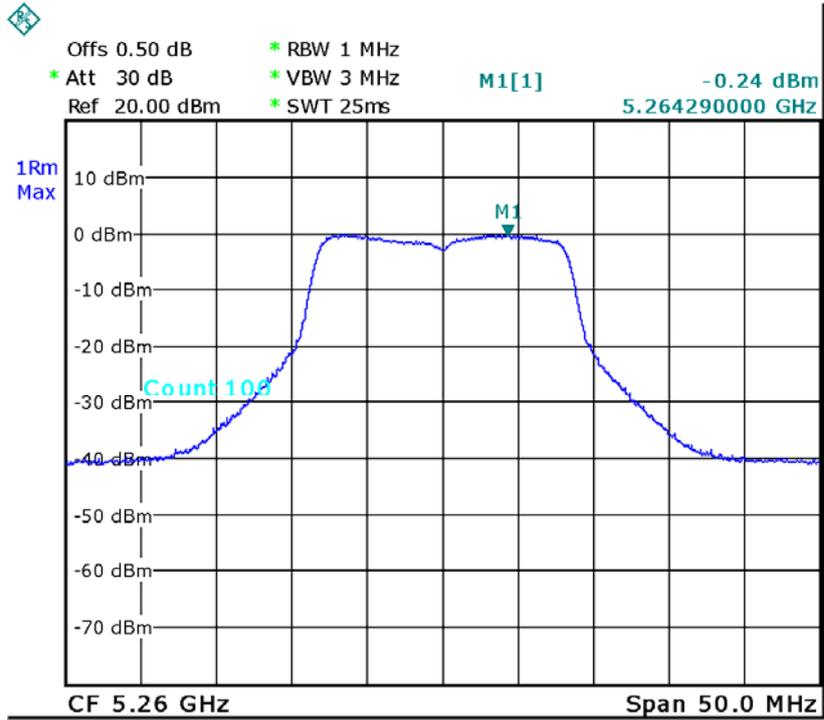
ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	-0.14	11
CH56	5280	0.14	11
CH64	5320	1.33	11

ANT 3			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	1.16	11
CH56	5280	1.37	11
CH64	5320	1.43	11

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	5.08	11
CH56	5280	5.57	11
CH64	5320	6.10	11

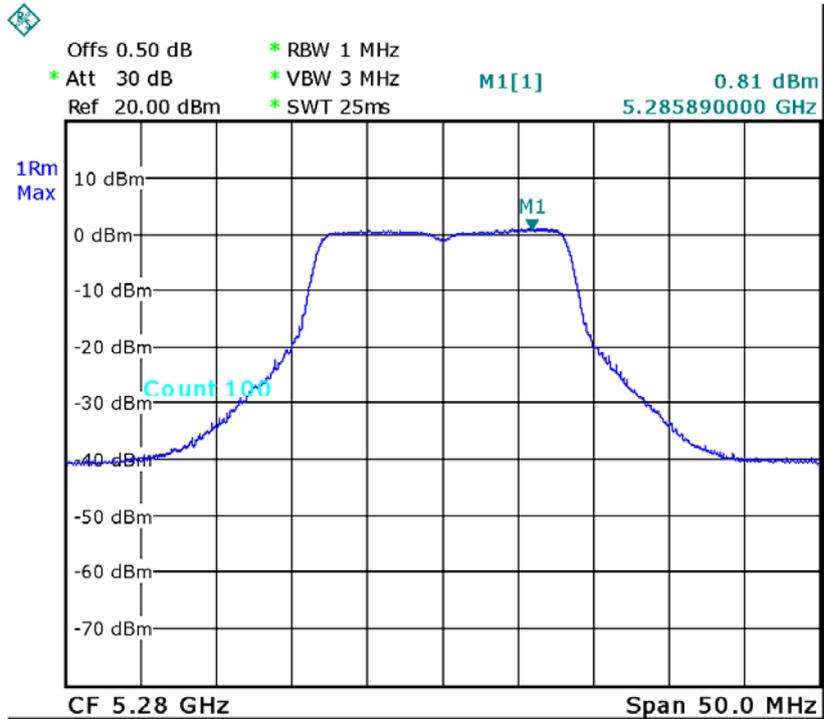


CH52-ANT 1



Date: 9.OCT.2012 17:38:14

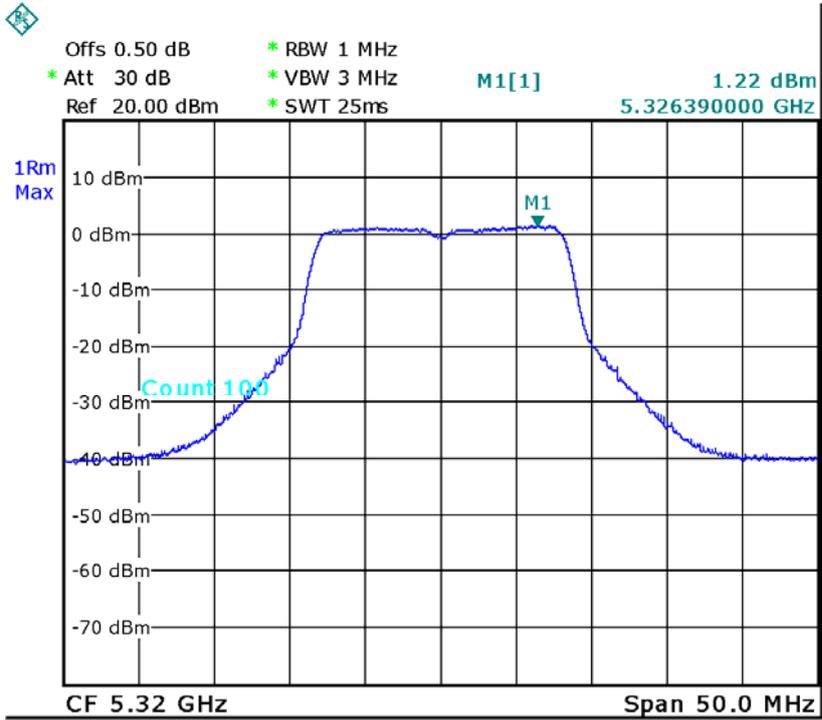
CH56-ANT 1



Date: 9.OCT.2012 17:42:21

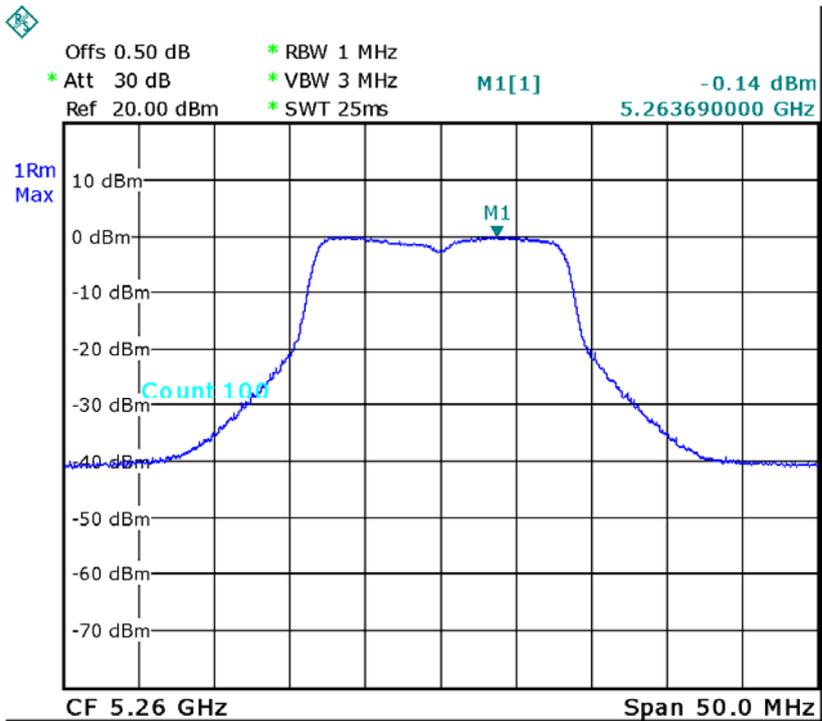


CH64-ANT 1



Date: 9.OCT.2012 17:46:32

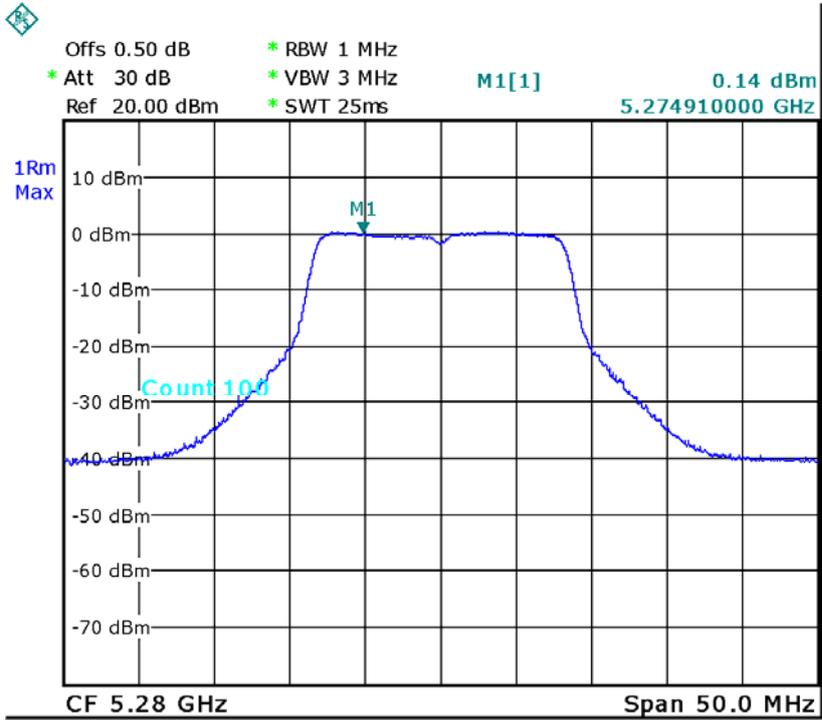
CH52-ANT 2



Date: 9.OCT.2012 17:36:07

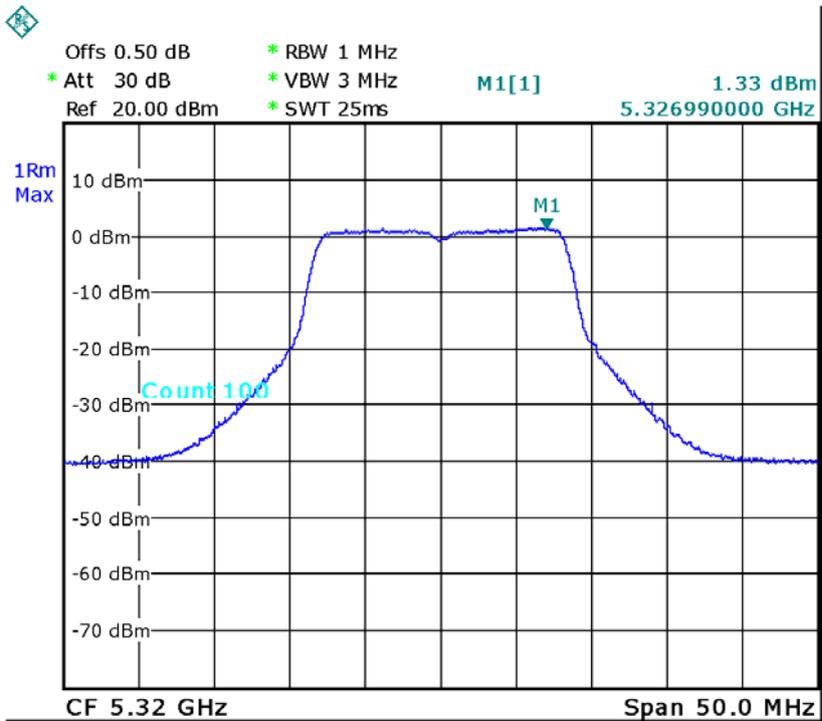


CH56-ANT 2



Date: 9.OCT.2012 17:41:09

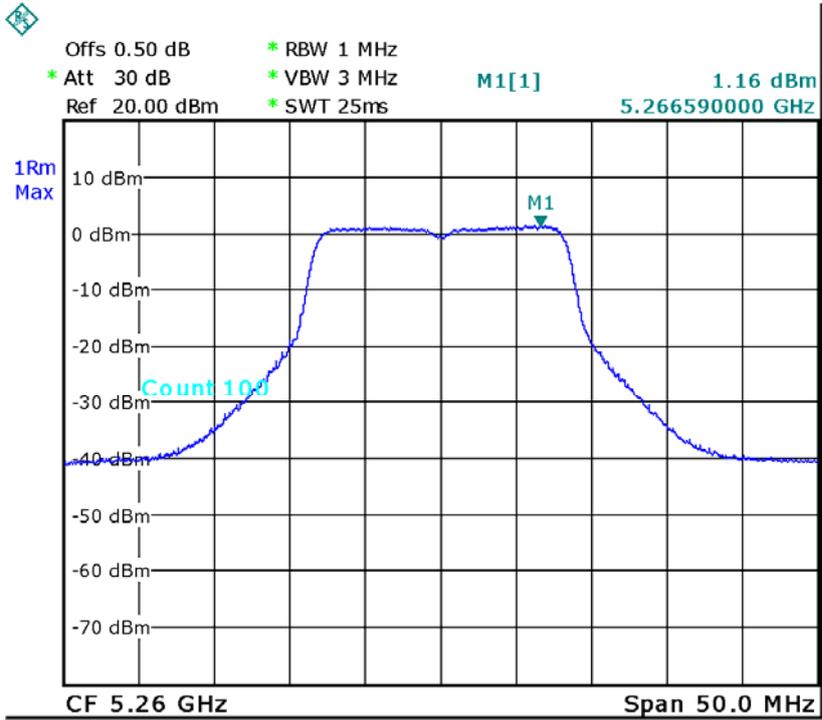
CH64-ANT 2



Date: 9.OCT.2012 17:46:18

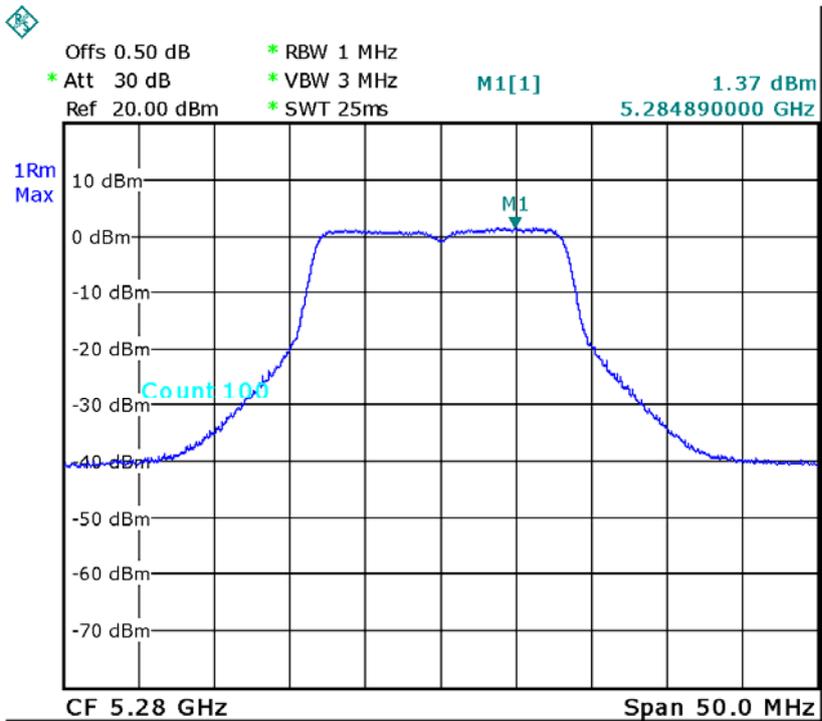


CH52-ANT 3



Date: 9.OCT.2012 17:35:14

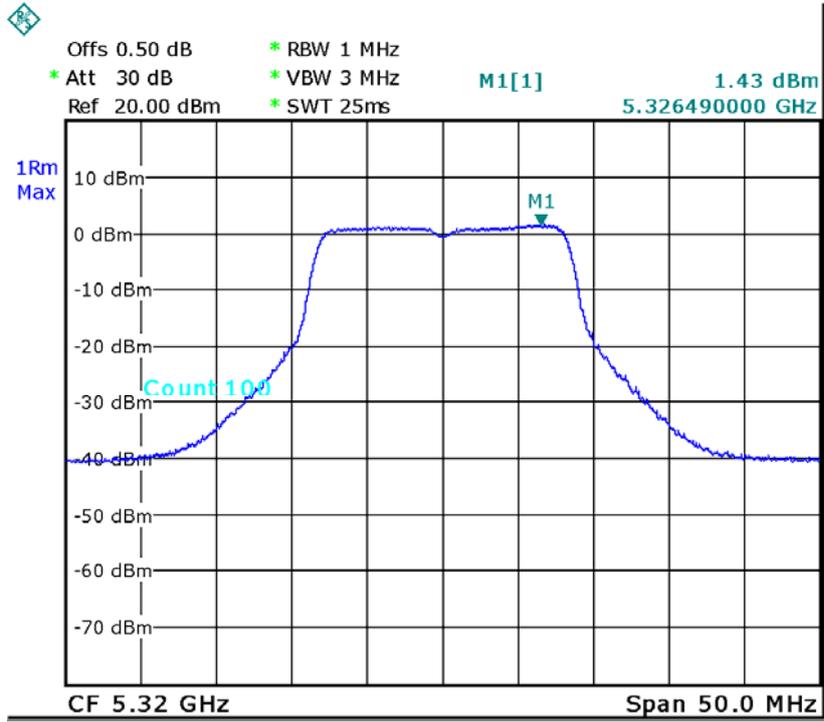
CH56-ANT 3



Date: 9.OCT.2012 17:42:46



CH64-ANT 3



Date: 9.OCT.2012 17:45:36



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX N20 Mode/CH52, CH56, CH64 - For 3TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	-0.24	11
CH56	5280	-0.29	11
CH64	5320	-0.64	11

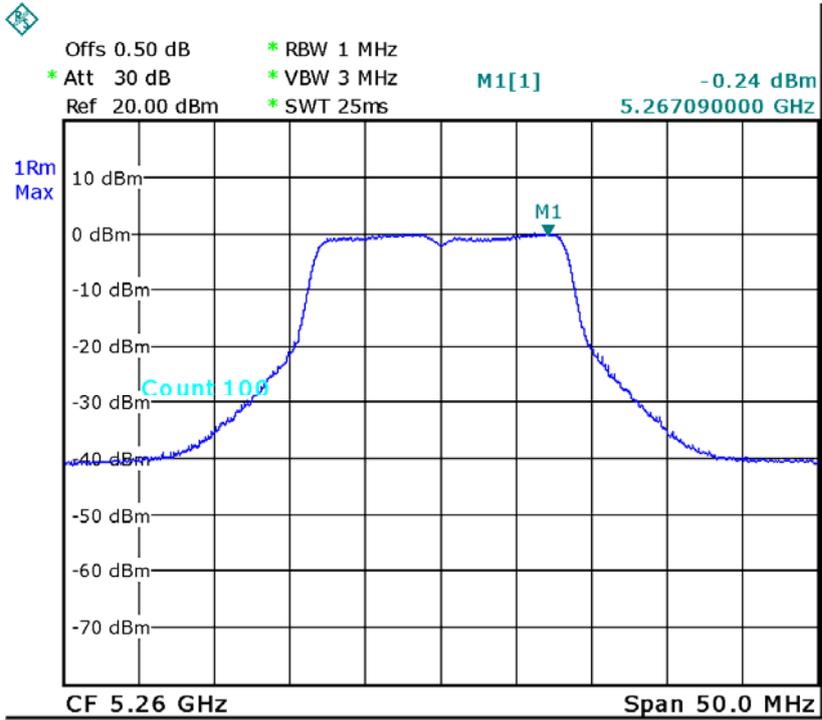
ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	1.15	11
CH56	5280	0.05	11
CH64	5320	-0.41	11

ANT 3			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	1.37	11
CH56	5280	-0.52	11
CH64	5320	0.91	11

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH52	5260	5.59	11
CH56	5280	4.52	11
CH64	5320	4.78	11

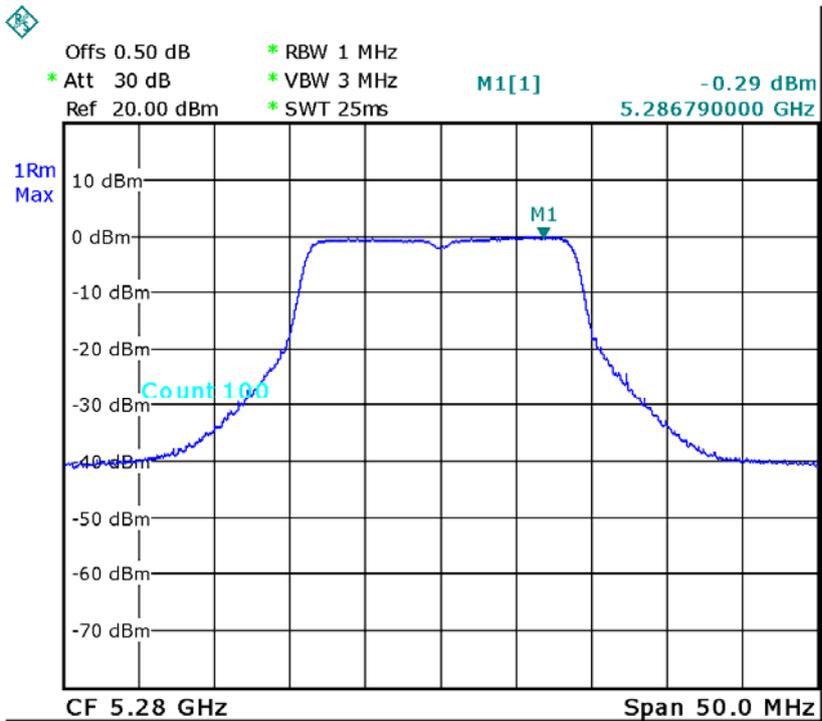


CH52-ANT 1



Date: 9.OCT.2012 18:20:25

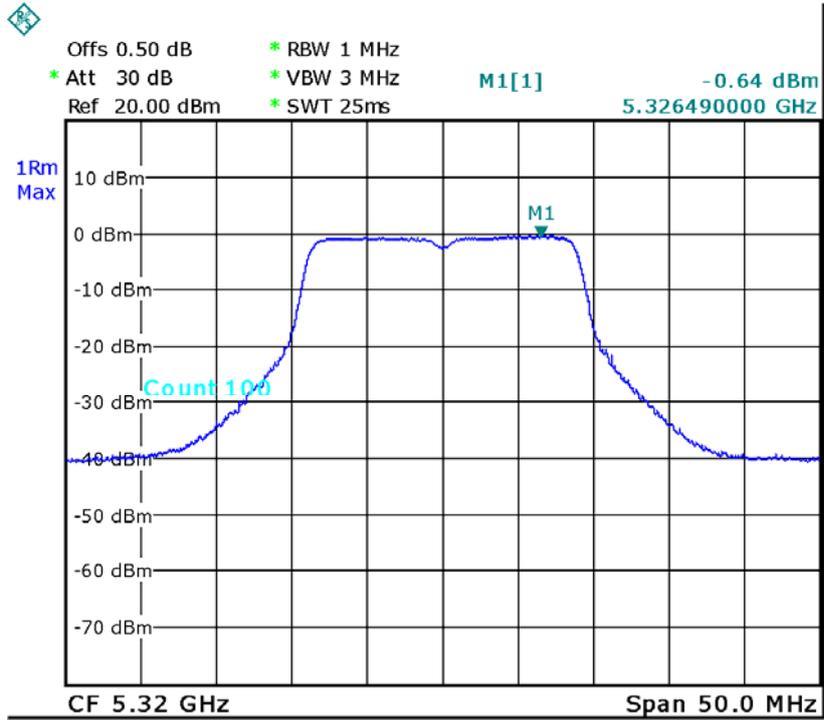
CH56-ANT 1



Date: 9.OCT.2012 18:34:36

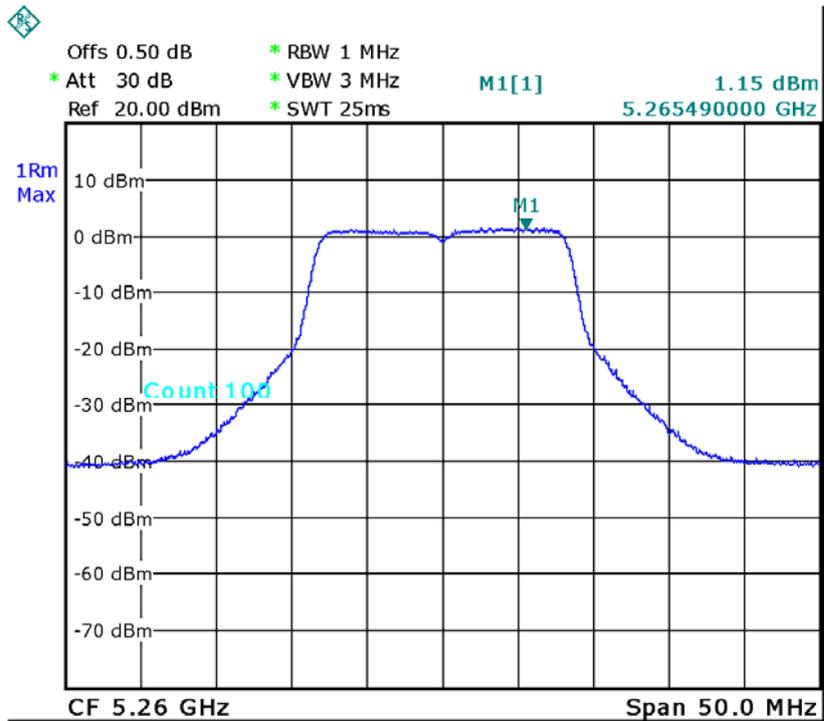


CH64-ANT 1



Date: 9.OCT.2012 18:37:49

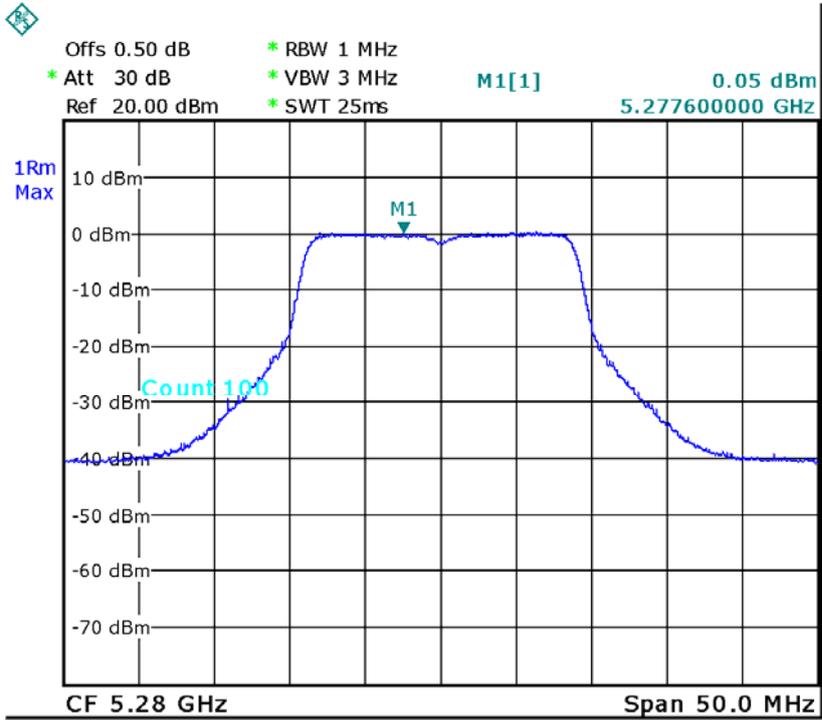
CH52-ANT 2



Date: 9.OCT.2012 18:21:04

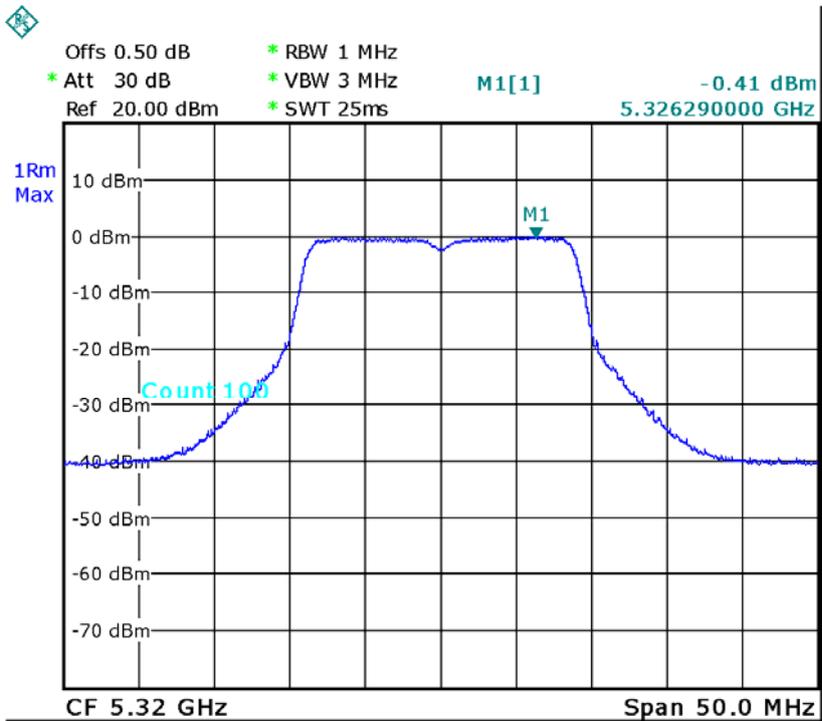


CH56-ANT 2



Date: 9.OCT.2012 18:33:41

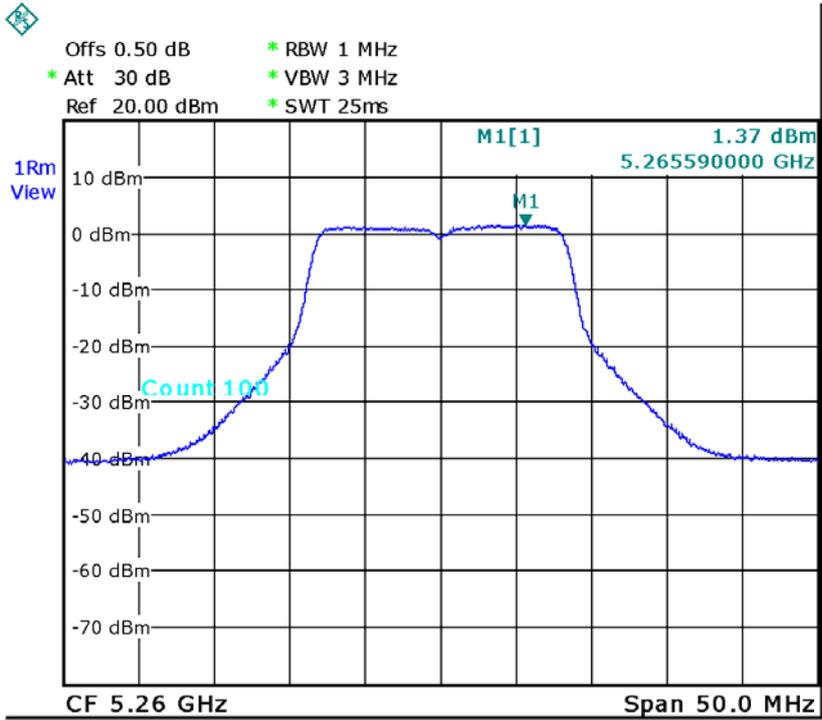
CH64-ANT 2



Date: 9.OCT.2012 18:38:39

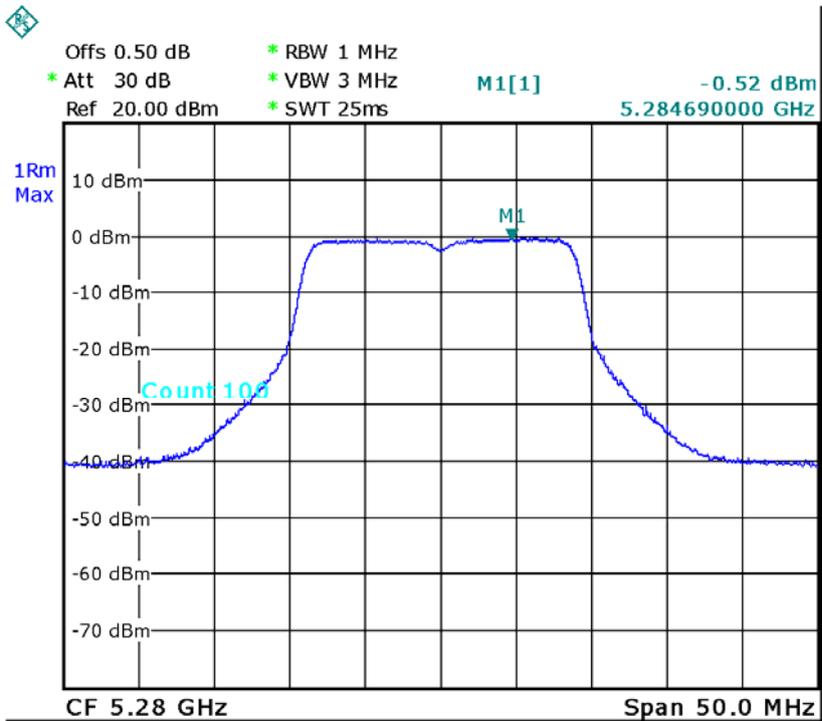


CH52-ANT 3



Date: 9.OCT.2012 18:24:13

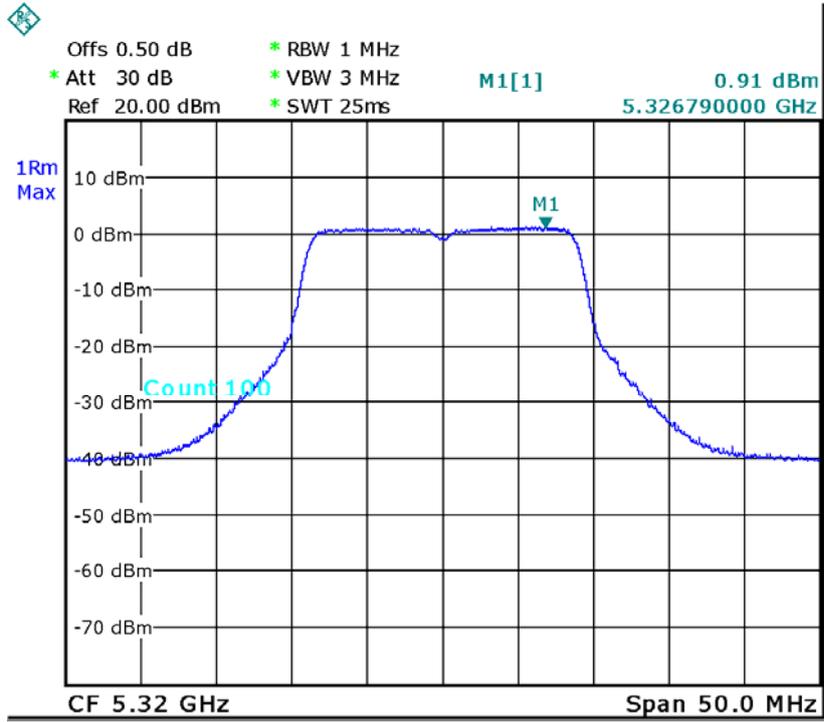
CH56-ANT 3



Date: 9.OCT.2012 18:30:49



CH64-ANT 3



Date: 9.OCT.2012 18:38:55



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX N40 Mode/CH54, CH62 - For 3TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH54	5270	-3.11	11
CH62	5310	-2.91	11

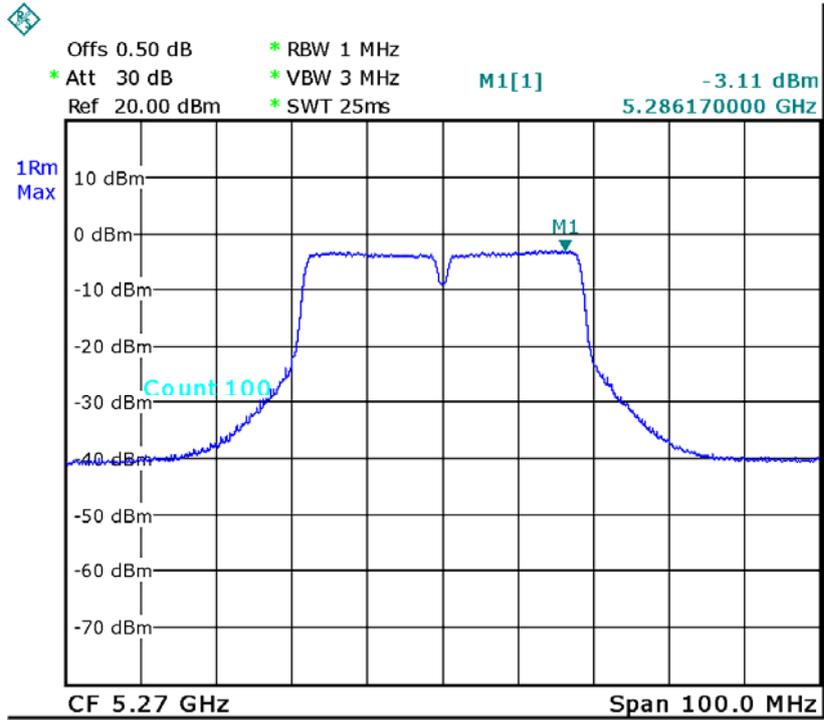
ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH54	5270	-3.02	11
CH62	5310	-2.91	11

ANT 3			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH54	5270	-2.05	11
CH62	5310	-1.67	11

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH54	5270	2.07	11
CH62	5310	2.32	11

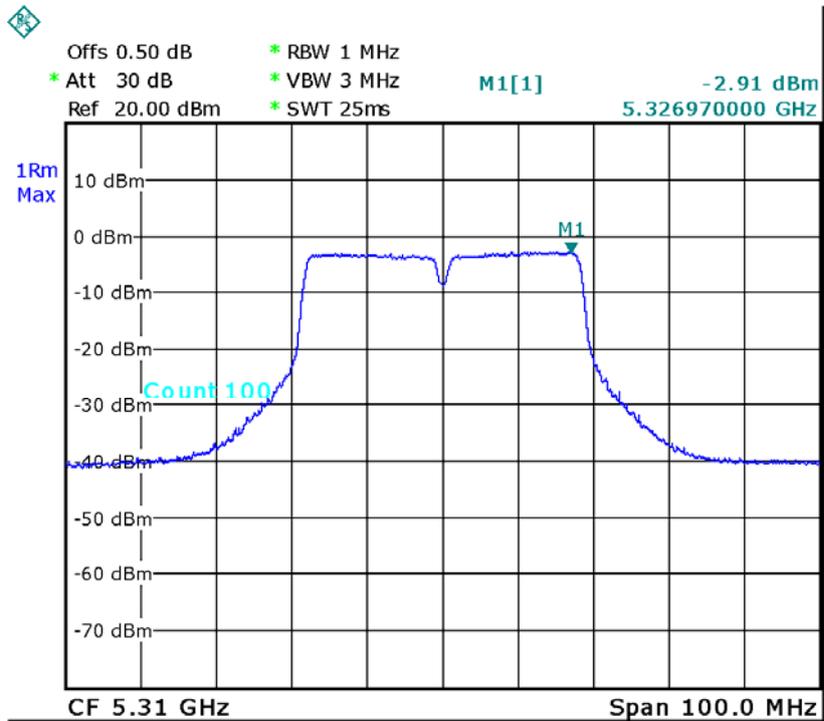


CH54-ANT 1



Date: 9.OCT.2012 19:15:48

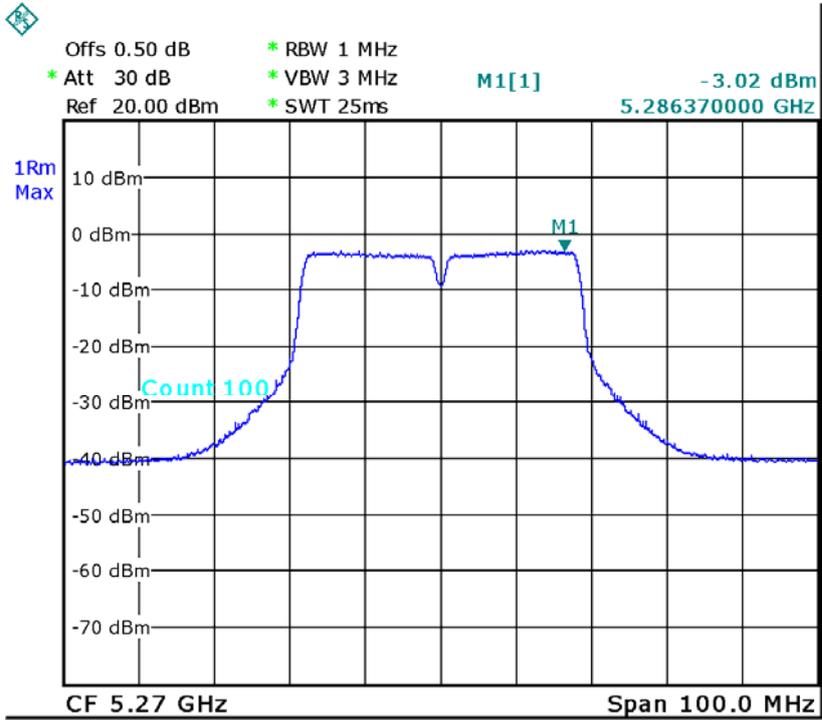
CH62-ANT 1



Date: 9.OCT.2012 19:22:08

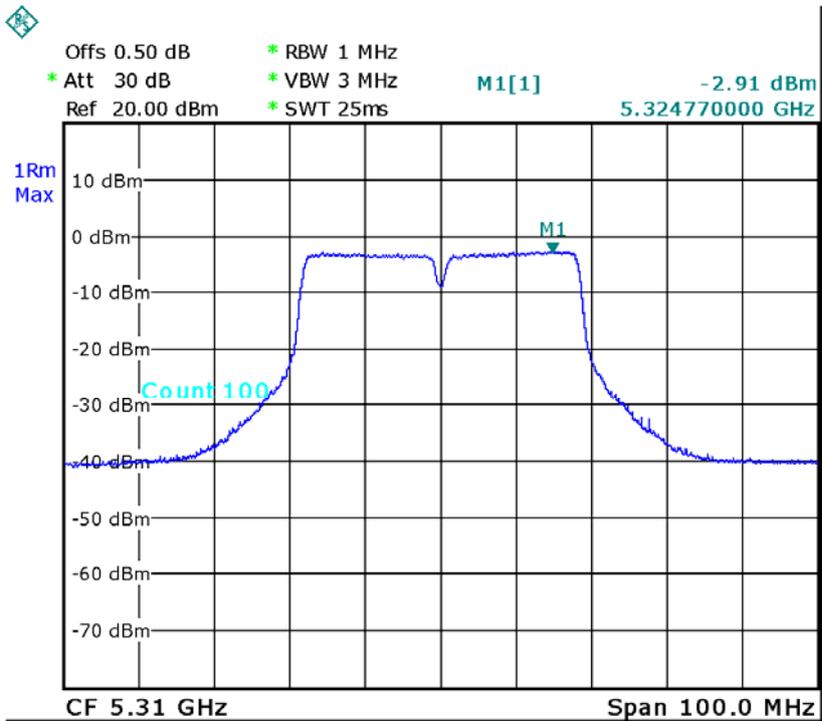


CH54-ANT 2



Date: 9.OCT.2012 19:16:23

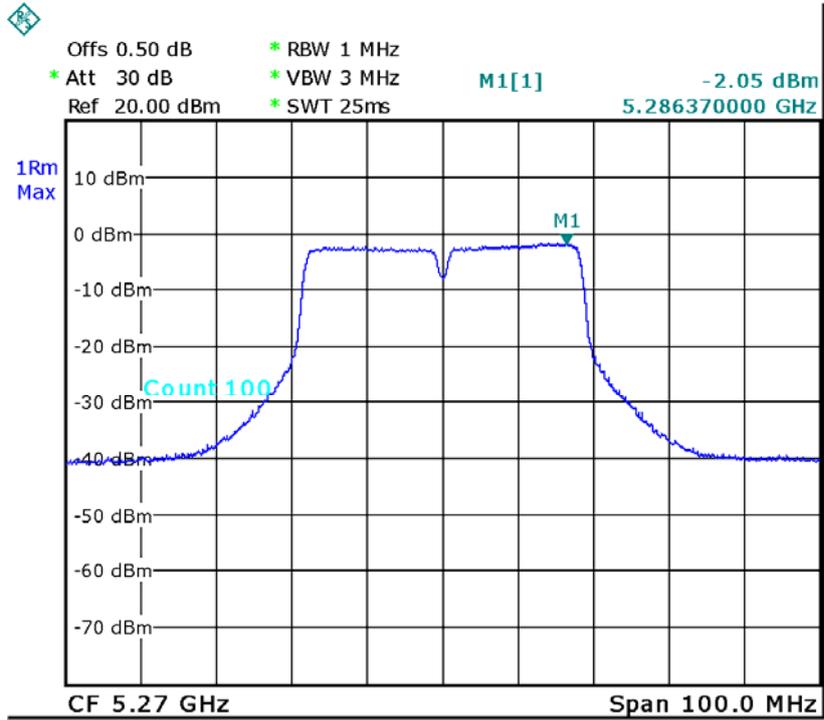
CH62-ANT 2



Date: 9.OCT.2012 19:22:43

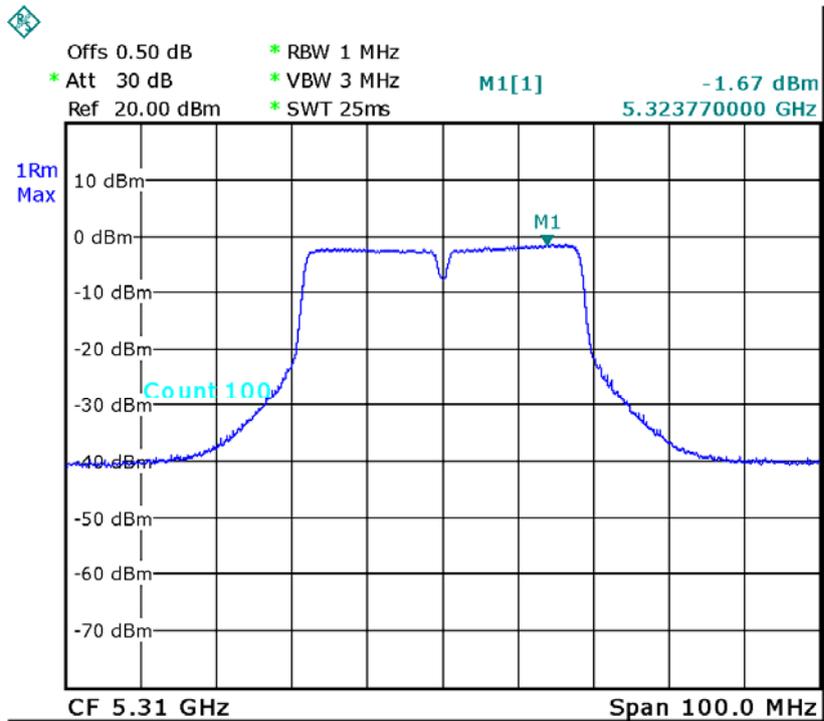


CH54-ANT 3



Date: 9.OCT.2012 19:16:47

CH62-ANT 3



Date: 9.OCT.2012 19:21:24



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX A Mode/CH100, CH116, CH140 - For 3TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	1.60	11
CH116	5580	1.68	11
CH140	5700	1.54	11

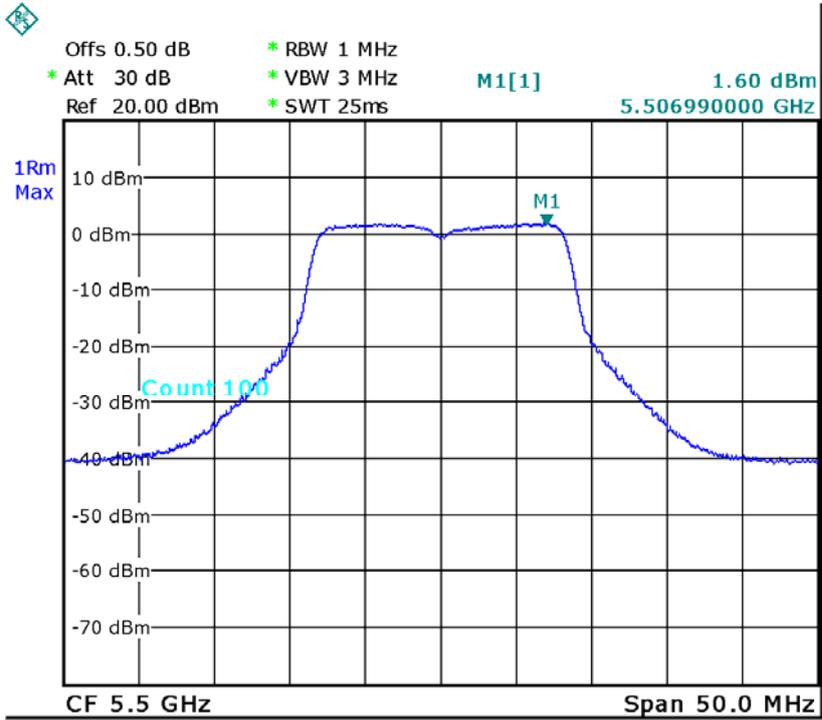
ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	1.65	11
CH116	5580	1.79	11
CH140	5700	1.95	11

ANT 3			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	1.60	11
CH116	5580	2.49	11
CH140	5700	1.91	11

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	6.39	11
CH116	5580	6.77	11
CH140	5700	6.58	11

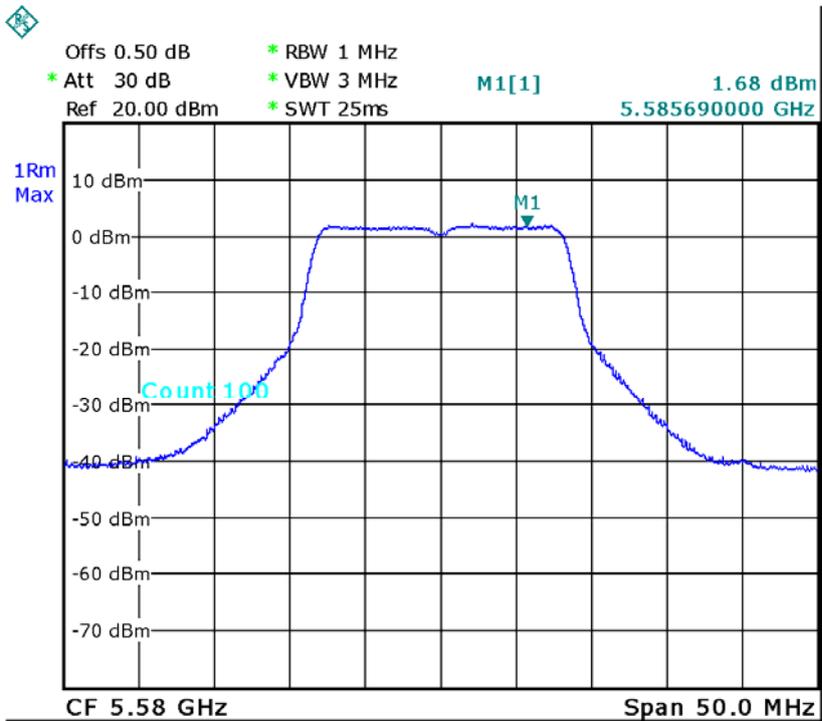


CH100-ANT 1



Date: 9.OCT.2012 17:50:00

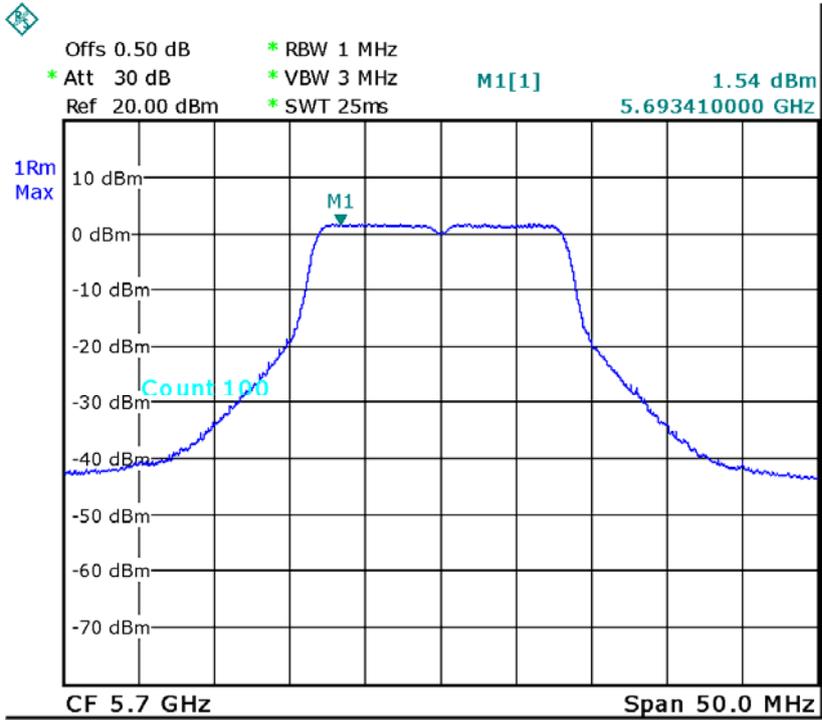
CH116-ANT 1



Date: 9.OCT.2012 17:56:02

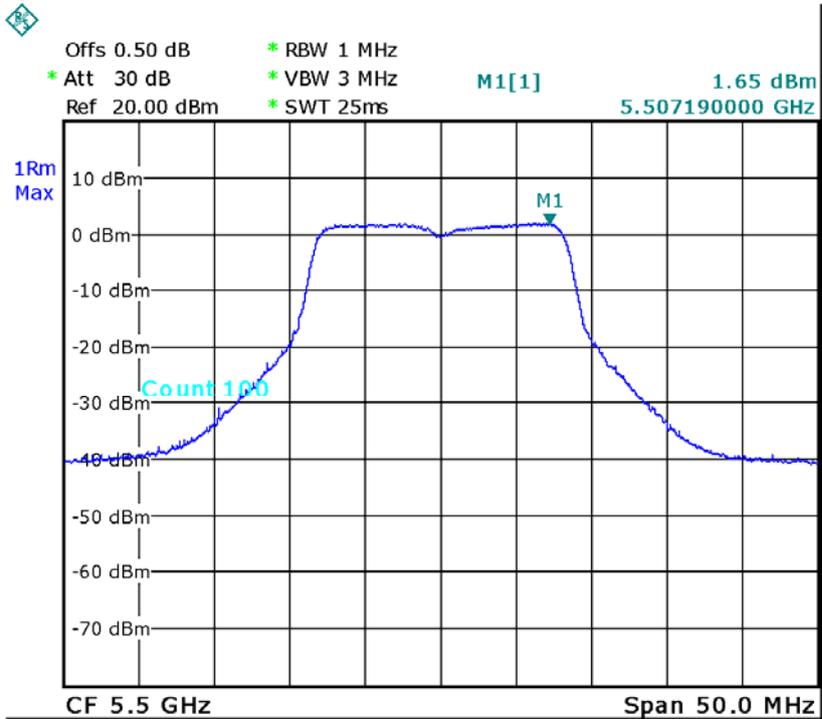


CH140-ANT 1



Date: 9.OCT.2012 18:00:52

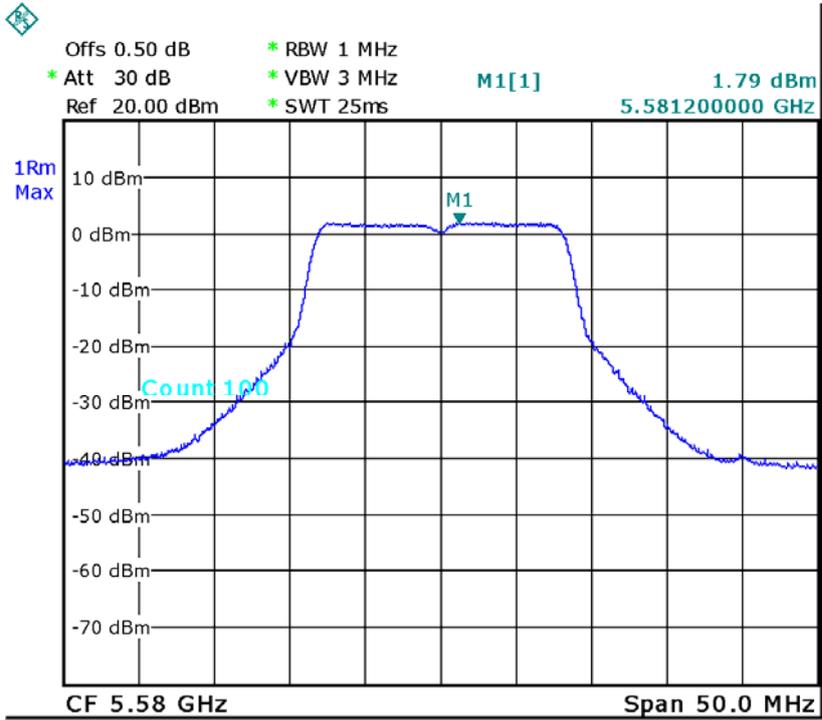
CH100-ANT 2



Date: 9.OCT.2012 17:49:53

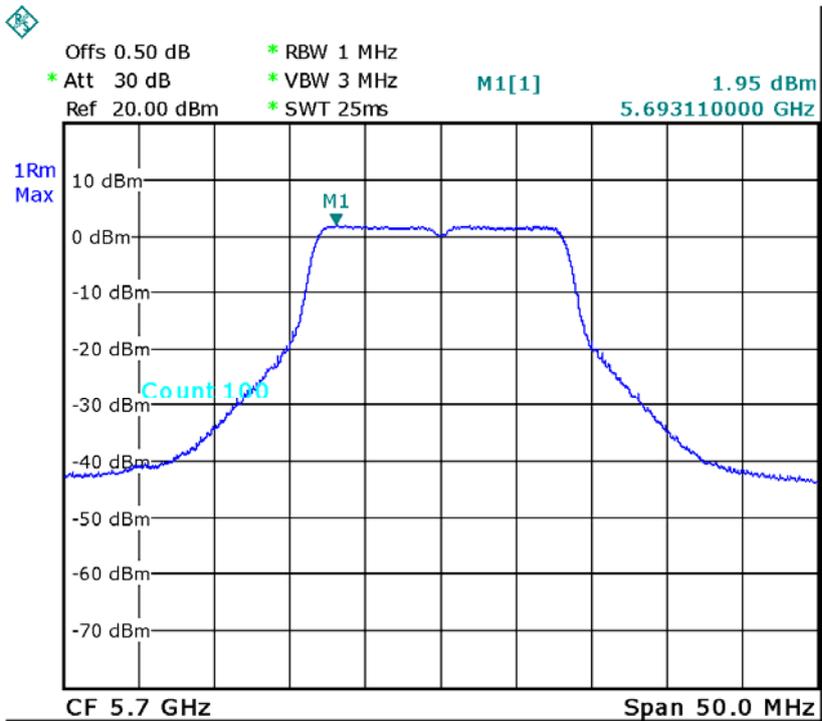


CH116-ANT 2



Date: 9.OCT.2012 17:56:23

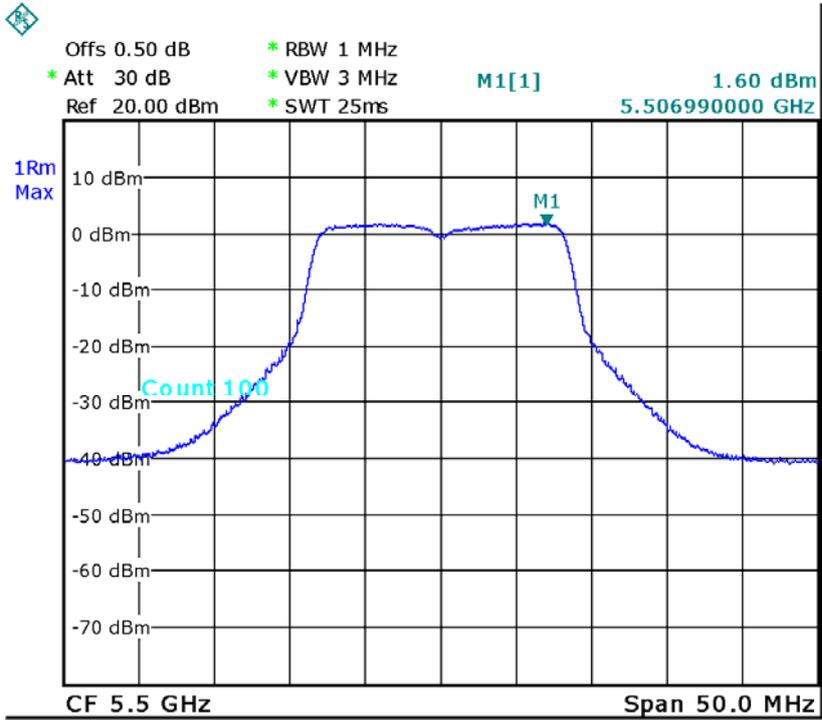
CH140-ANT 2



Date: 9.OCT.2012 17:59:58

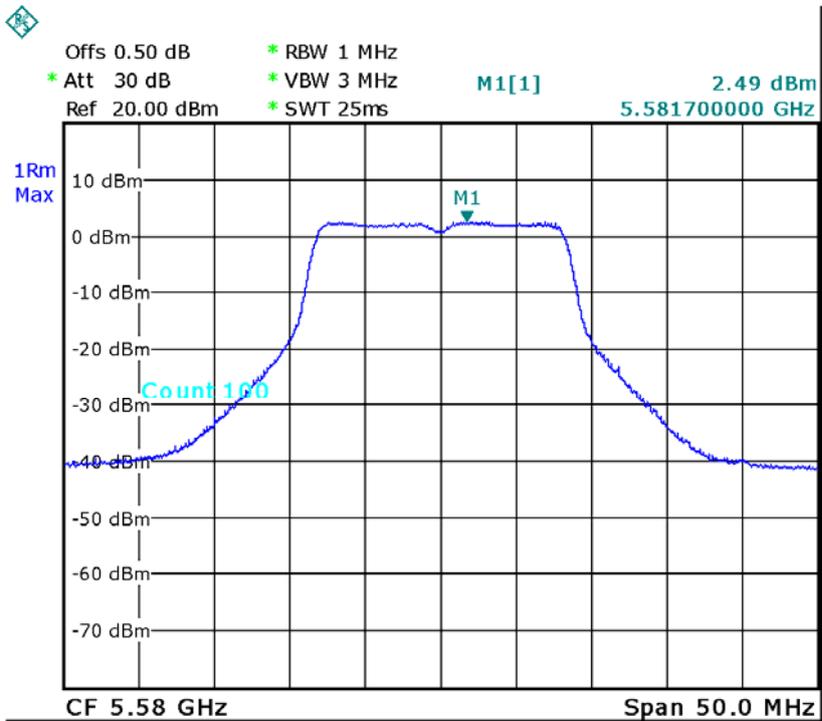


CH100-ANT 3



Date: 9.OCT.2012 17:50:00

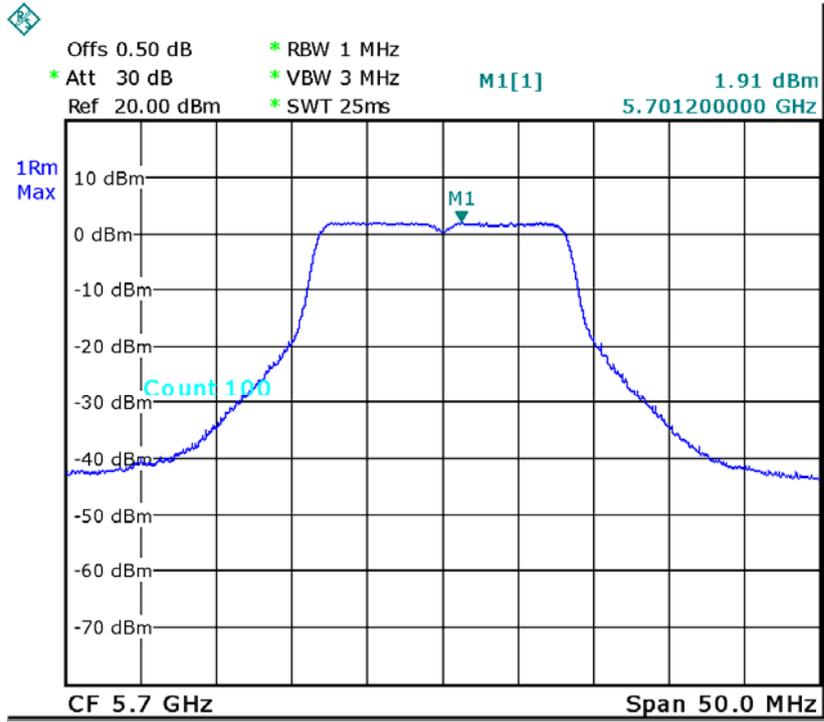
CH116-ANT 3



Date: 9.OCT.2012 17:54:46



CH140-ANT 3



Date: 9.OCT.2012 17:59:26



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 ° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX N20 Mode/CH100, CH116, CH140 - For 3TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	0.20	11
CH116	5580	1.34	11
CH140	5700	0.14	11

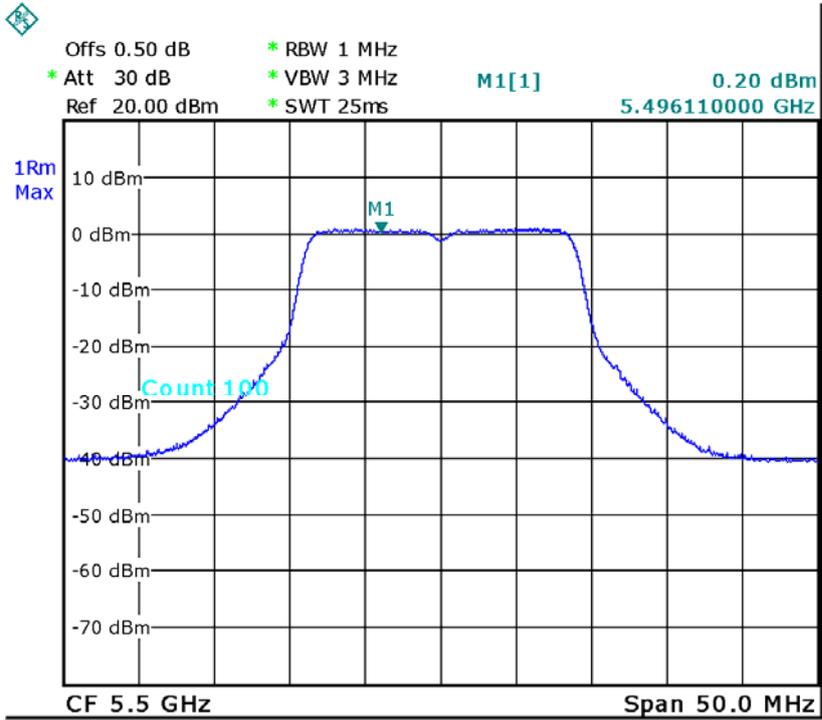
ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	0.33	11
CH116	5580	1.42	11
CH140	5700	1.36	11

ANT 3			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	1.66	11
CH116	5580	2.14	11
CH140	5700	0.49	11

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH100	5500	5.55	11
CH116	5580	6.42	11
CH140	5700	5.47	11

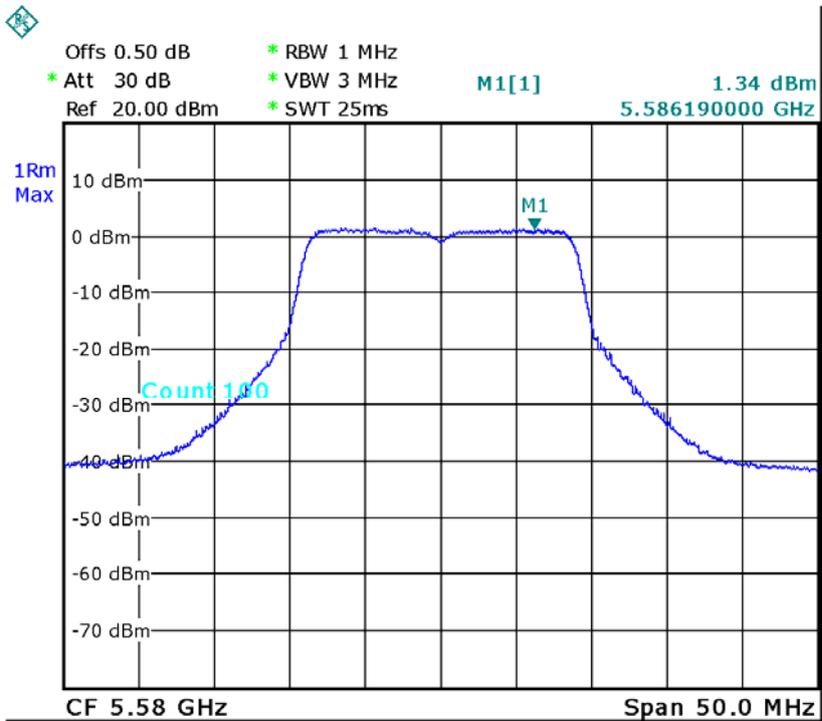


CH100-ANT 1



Date: 9.OCT.2012 18:43:14

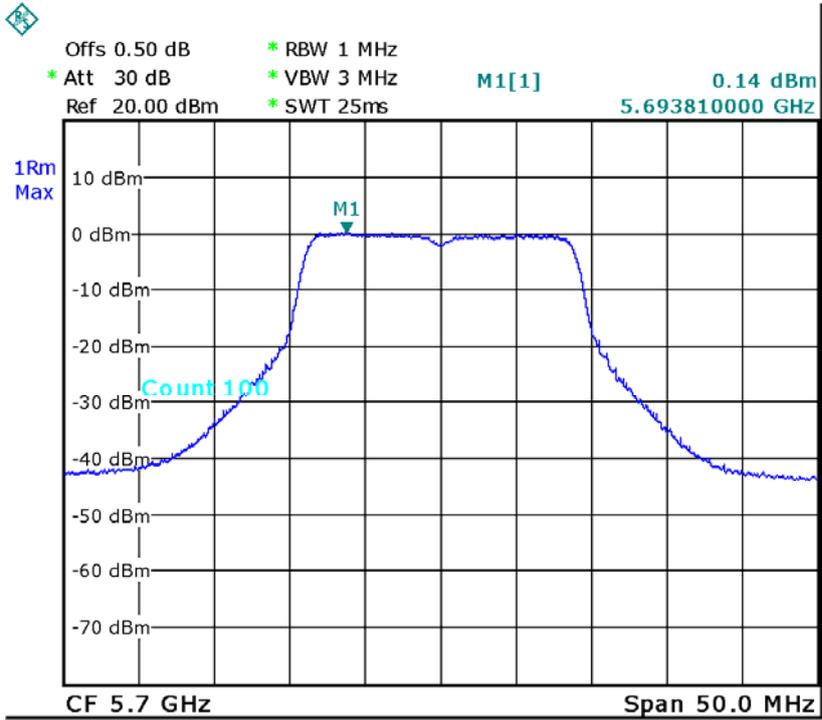
CH116-ANT 1



Date: 9.OCT.2012 18:50:46

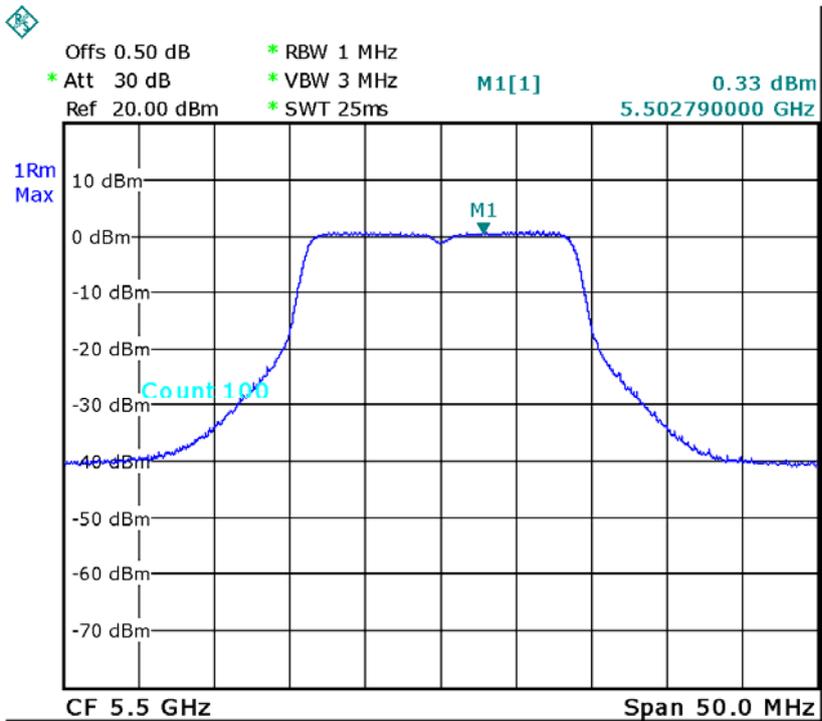


CH140-ANT 1



Date: 9.OCT.2012 18:54:42

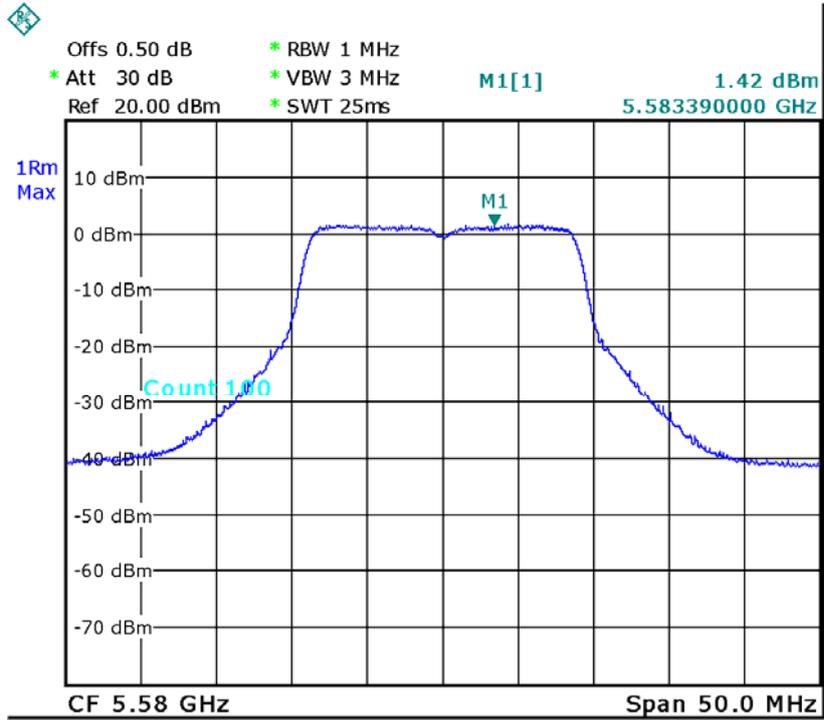
CH100-ANT 2



Date: 9.OCT.2012 18:43:07

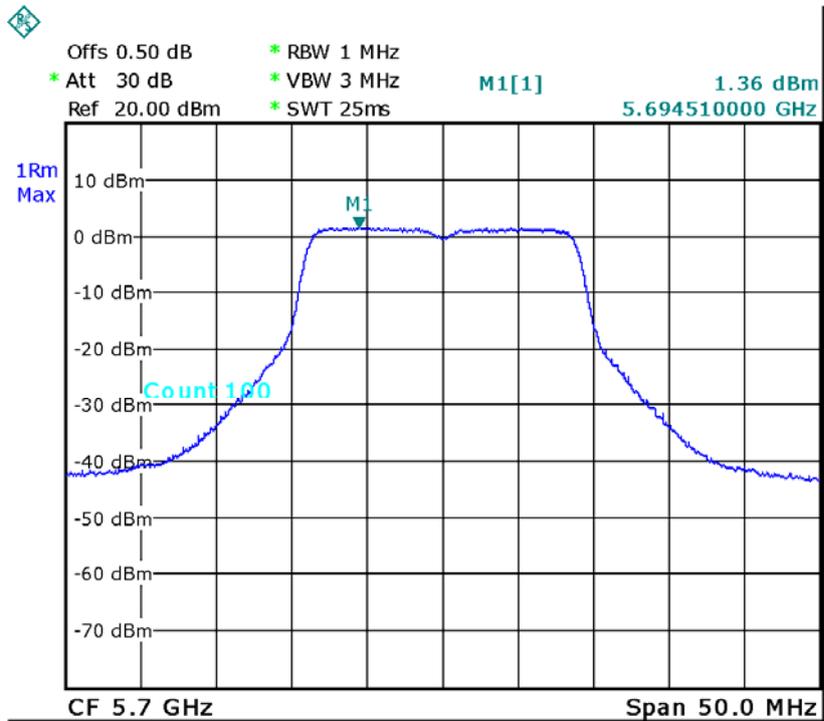


CH116-ANT 2



Date: 9.OCT.2012 18:50:11

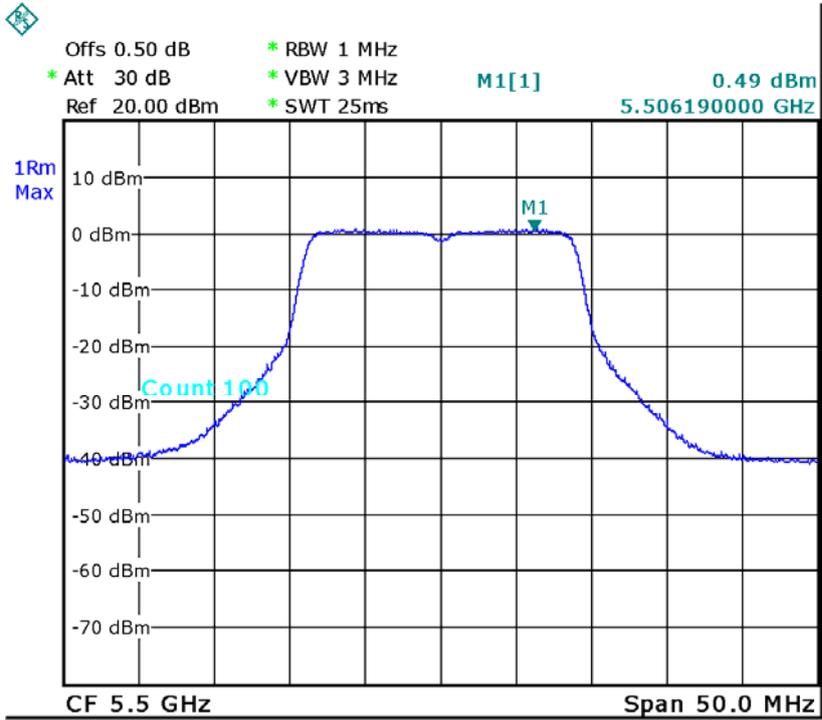
CH140-ANT 2



Date: 9.OCT.2012 18:54:23

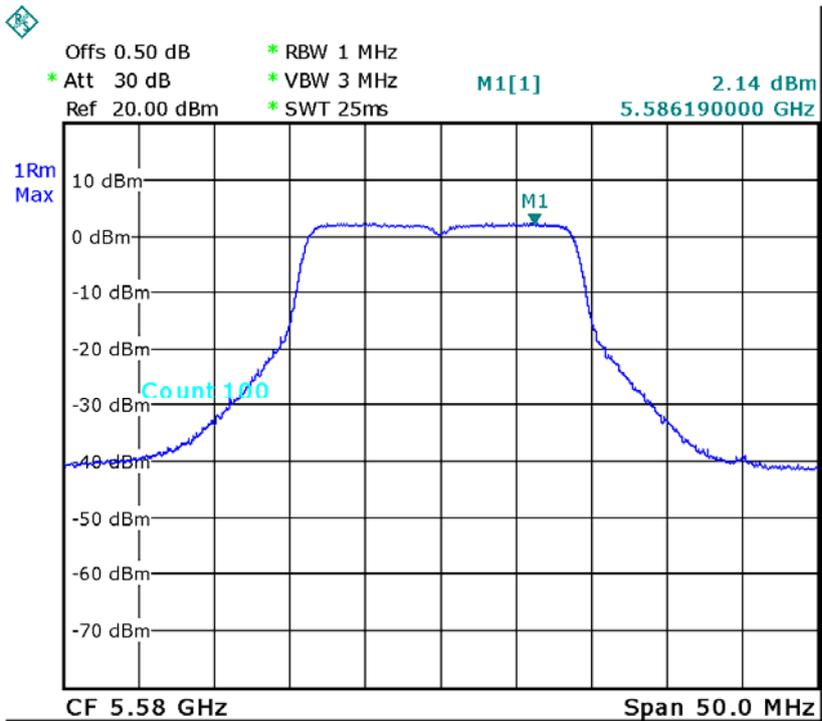


CH100-ANT 3



Date: 9.OCT.2012 18:42:34

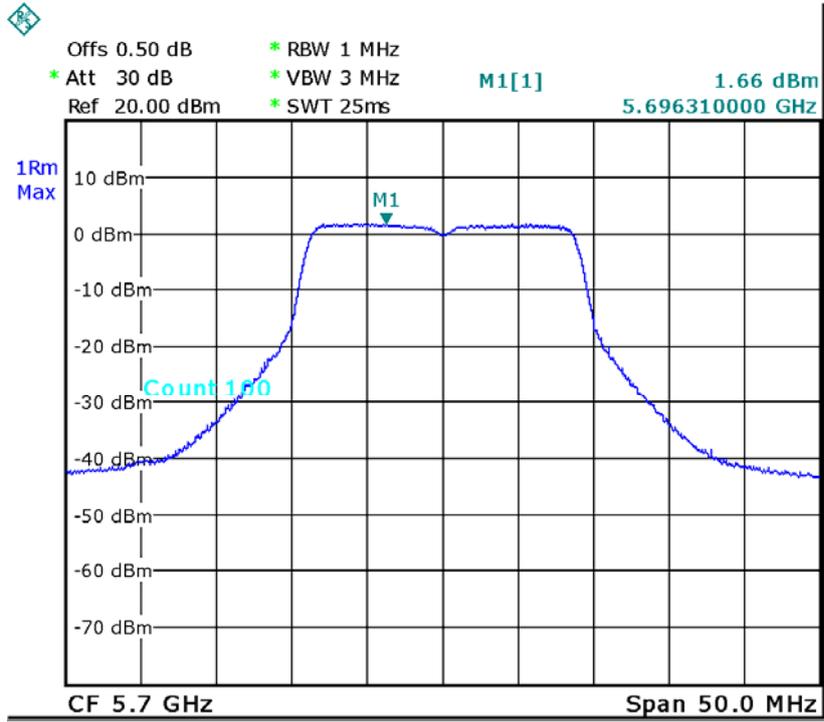
CH116-ANT 3



Date: 9.OCT.2012 18:51:08



CH140-ANT 3



Date: 9.OCT.2012 18:53:31



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX N40 Mode/CH102, CH110,CH134 - For 3TX		

ANT 1			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH102	5510	-4.49	11
CH110	5550	-2.81	11
CH134	5670	-2.32	11

ANT 2			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH102	5510	-4.46	11
CH110	5550	-2.33	11
CH134	5670	-1.94	11

ANT 3			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH102	5510	-4.18	11
CH110	5550	-1.84	11
CH134	5670	-0.55	11

Total			
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH102	5510	0.40	11
CH110	5550	2.46	11
CH134	5670	3.24	11

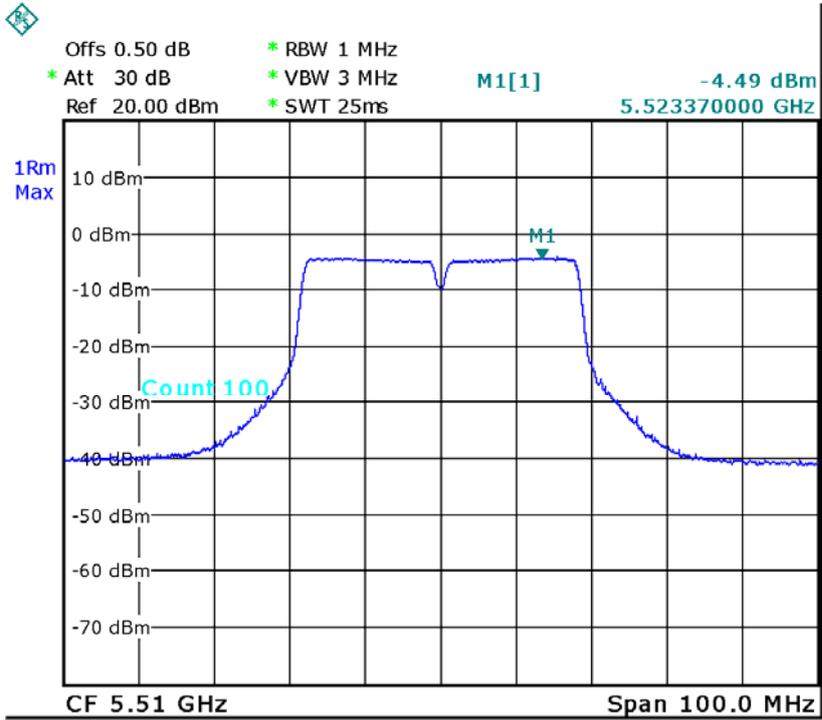
Remark :

- (1) **The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.**
And after obtain each individual transmitter chain power, then sum the output power by using the following formula:

$$((\text{dBm}/\text{Chain 1})/10^{\text{Log}}) + ((\text{dBm}/\text{Chain 2})/10^{\text{log}}) + ((\text{dBm}/\text{ChainN})/10^{\text{log}}) =$$
Combined peak output power in mW.
- (2) **Antenna Gain 1=5.74 dBi**
- (3) **Note: This EUT supports MIMO, all transmit signals are completely uncorrelated, then, Direction gain = G_{ANT}, that is Directional gain=5.74.**

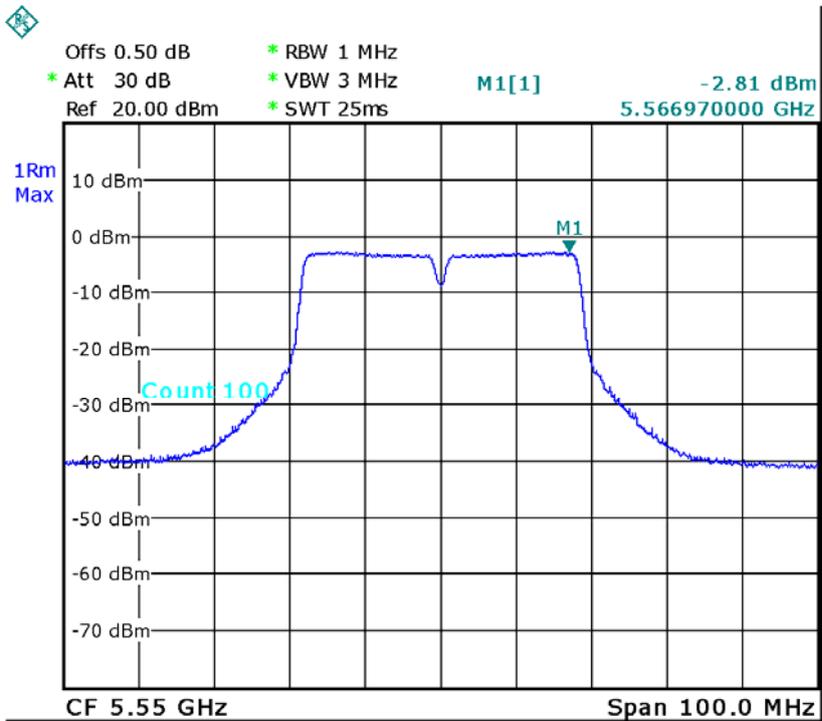


CH102-ANT 1



Date: 13.OCT.2012 13:32:53

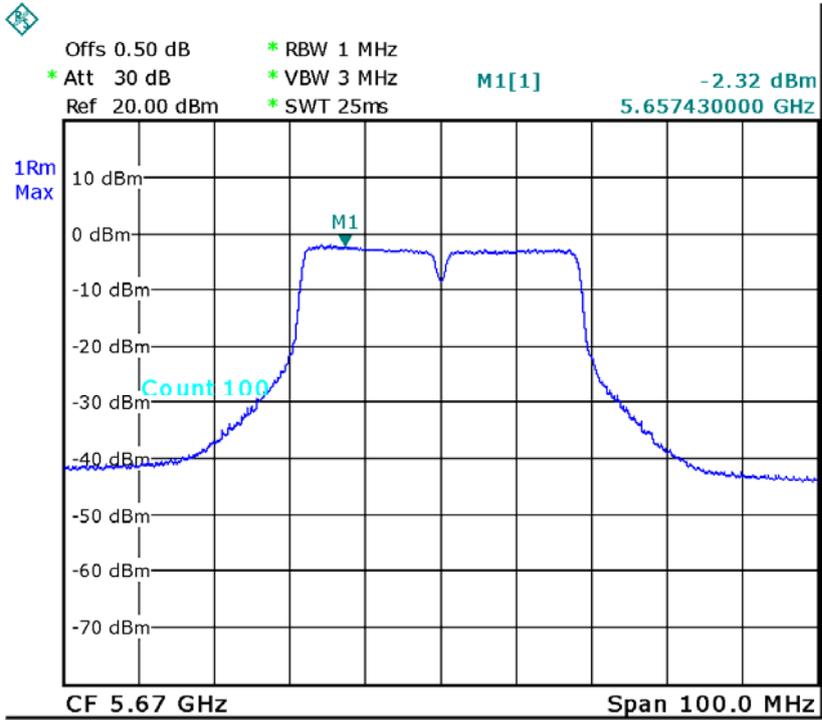
CH110-ANT 1



Date: 9.OCT.2012 19:24:56

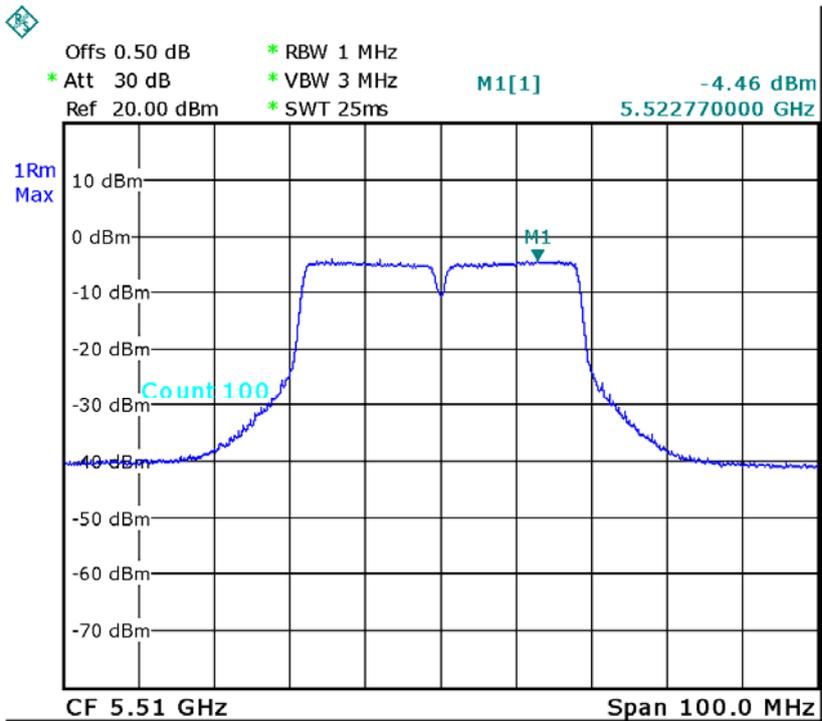


CH134-ANT 1



Date: 9.OCT.2012 19:30:34

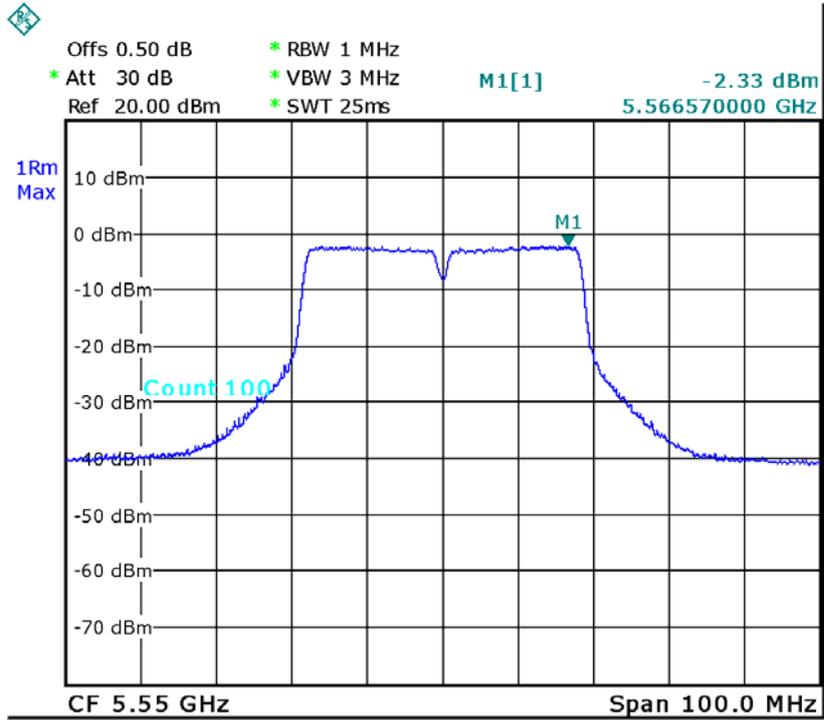
CH102-ANT 2



Date: 13.OCT.2012 13:34:49

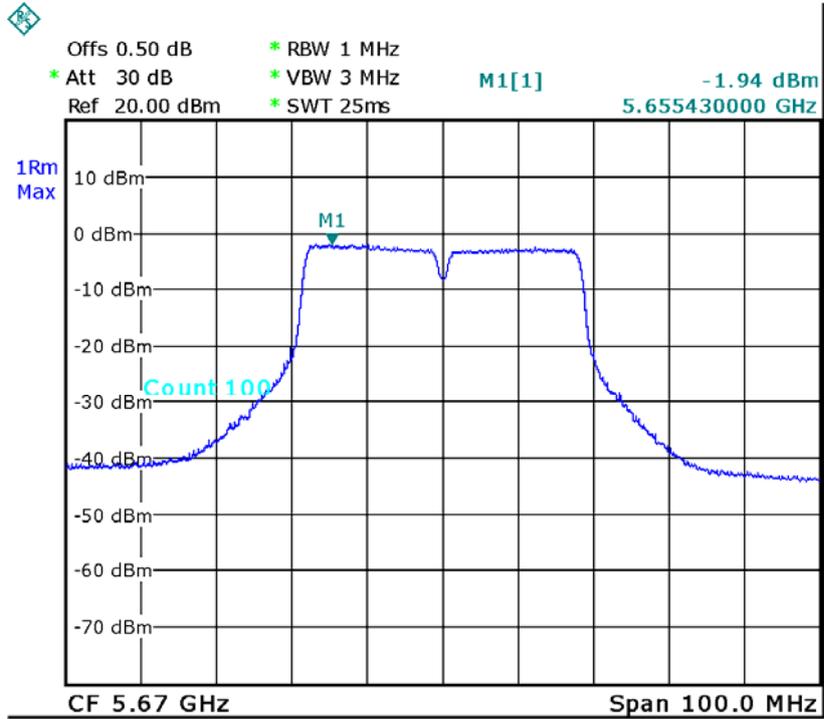


CH110-ANT 2



Date: 9.OCT.2012 19:24:23

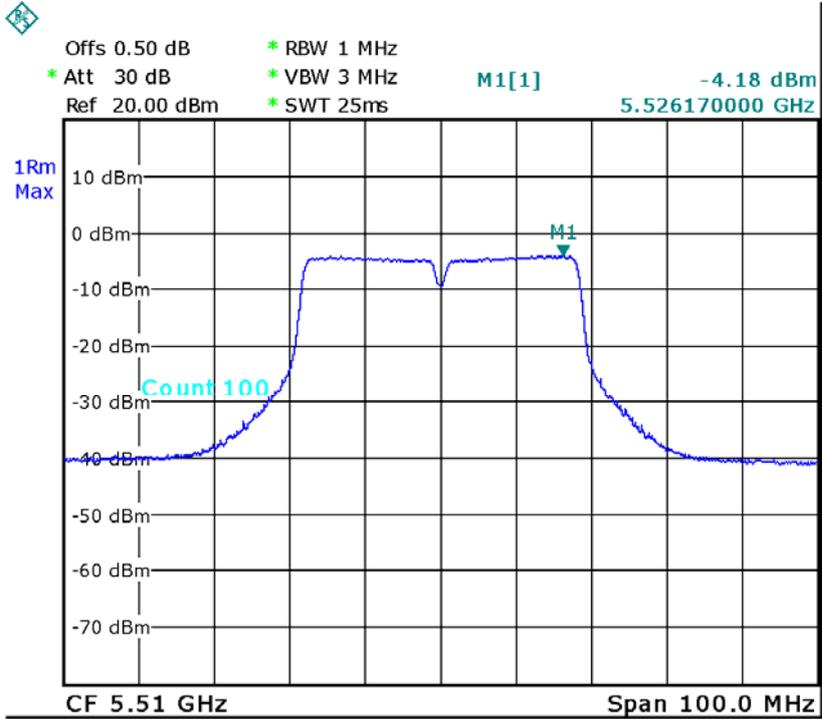
CH134-ANT 2



Date: 9.OCT.2012 19:30:00

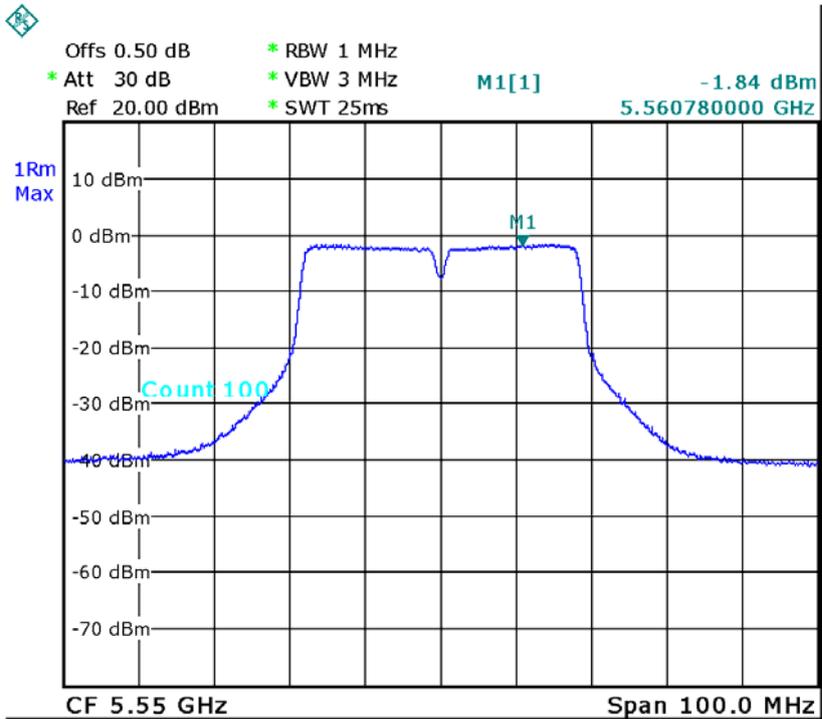


CH102-ANT 3



Date: 13.OCT.2012 13:35:46

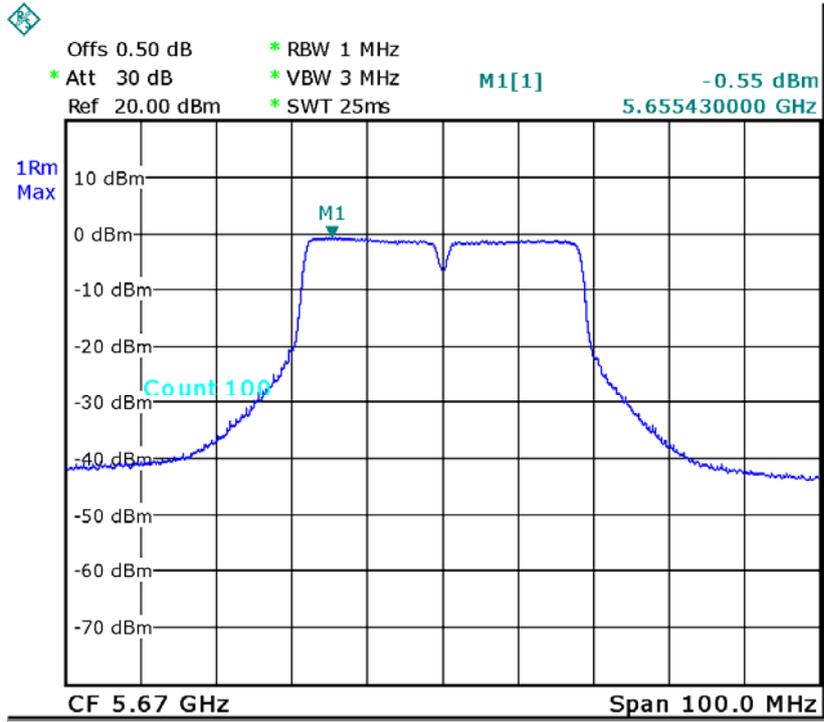
CH110-ANT 3



Date: 9.OCT.2012 19:25:11



CH134-ANT 3



Date: 9.OCT.2012 19:28:11



9. PEAK EXCURSION MEASUREMENT

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Peak Excursion Measurement	13 dB	5150 - 5250	PASS
		5250 - 5350	PASS
		5470 - 5725	PASS

9.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100129	Nov.26.2011	Nov.26.2012

Remark: "N/A" denotes no model name, serial no. or calibration specified.
 All calibration period of Equipment List is One Year.

9.1.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RB	1000 kHz (Peak Trace) / 1000 kHz (Average Trace)
VB	3000 kHz (Peak Trace) / 3000 kHz (Average Trace)
Detector	Peak (Peak Trace) / RMS (Average Trace)
Trace	Max Hold
Sweep Time	60s

c. Peak Trace: Set RBW = 1 MHz, VBW ≥ 3 MHz with peak detector and maxhold settings.

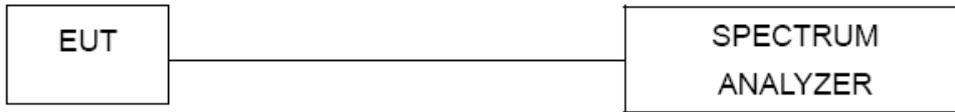
d. Average Trace: set RBW = 1 MHz, VBW = 3 MHz with RMS detector and trace average across 100 traces in power averaging mode.

9.1.3 DEVIATION FROM STANDARD

No deviation.



9.1.4 TEST SETUP



9.1.5 EUT OPERATION CONDITIONS

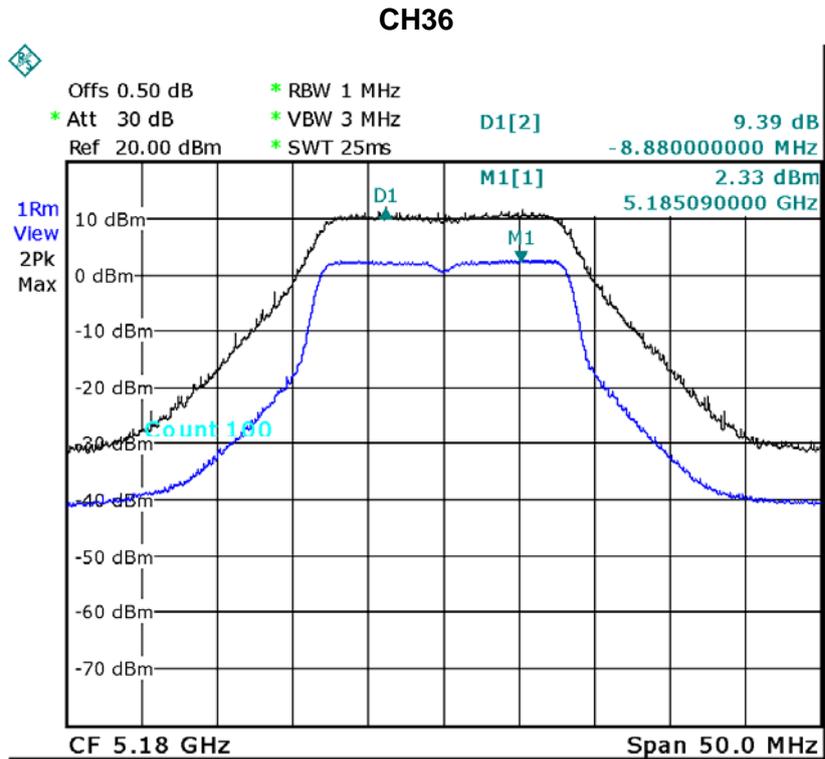
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



9.1.6 TEST RESULTS

EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX A Mode/CH36, CH40, CH48		

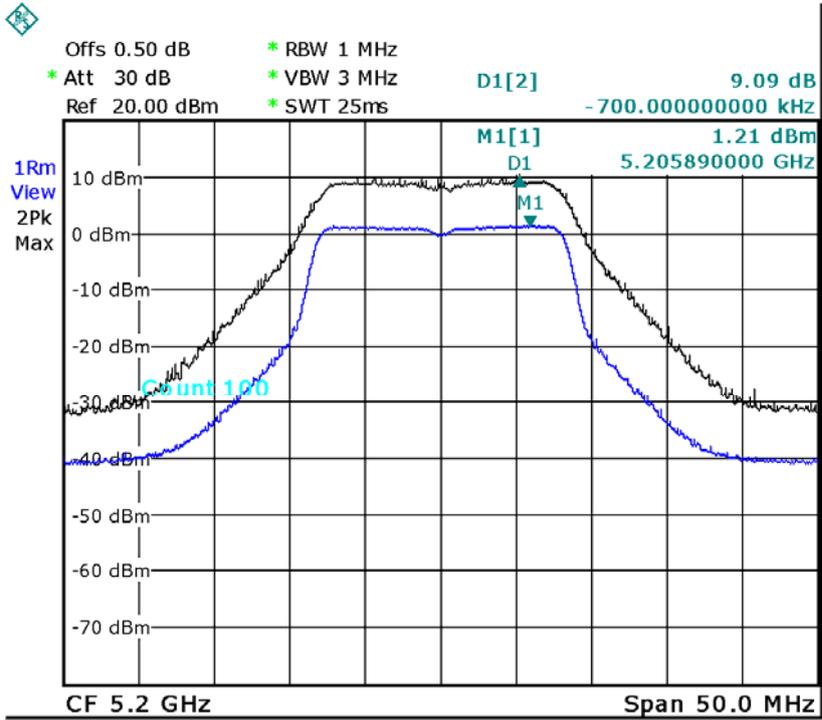
Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH36	5180	9.39	13
CH40	5210	9.09	13
CH48	5240	8.17	13



Date: 9.OCT.2012 13:12:37

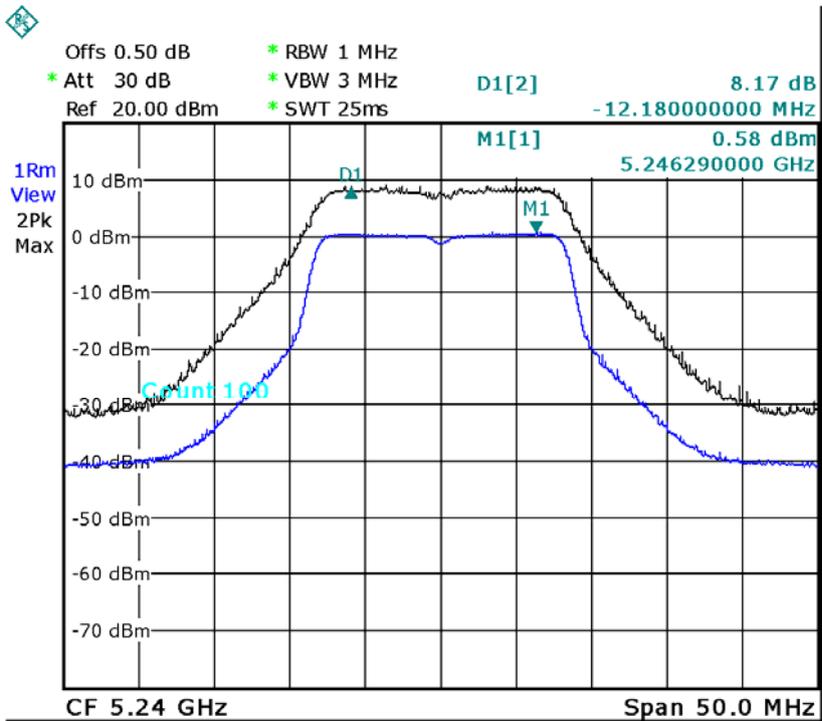


CH40



Date: 9.OCT.2012 13:15:24

CH48



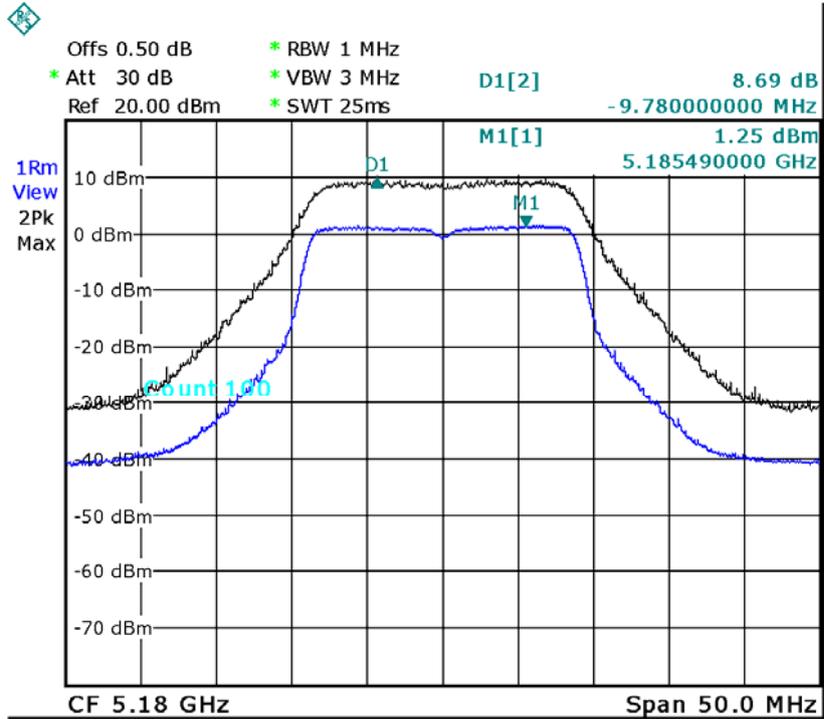
Date: 9.OCT.2012 13:24:26



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX N20 Mode/CH36, CH40, CH48		

Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH36	5180	8.69	13
CH40	5210	9.05	13
CH48	5240	9.37	13

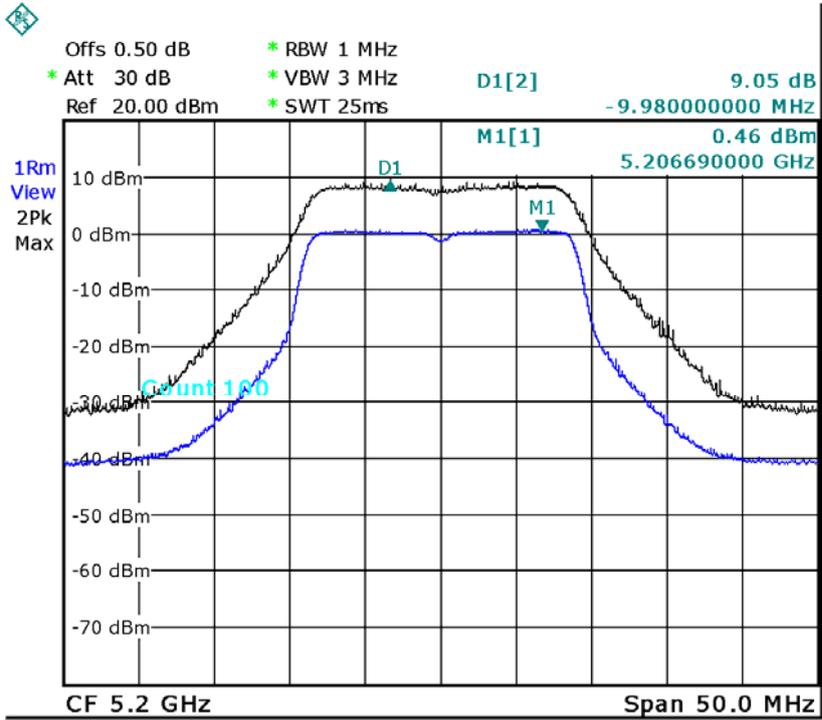
CH36



Date: 9.OCT.2012 14:05:57

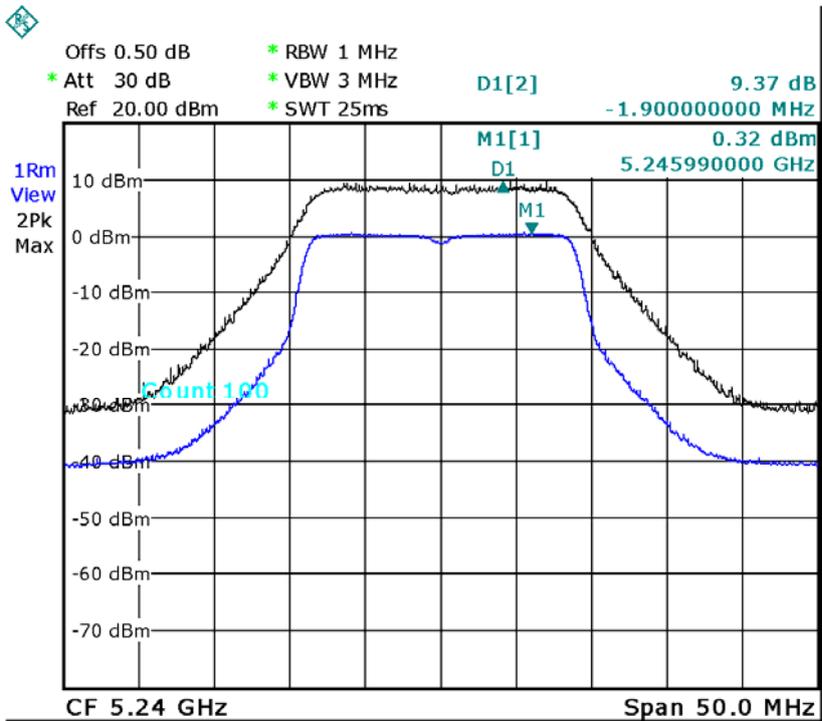


CH40



Date: 9.OCT.2012 14:04:06

CH48

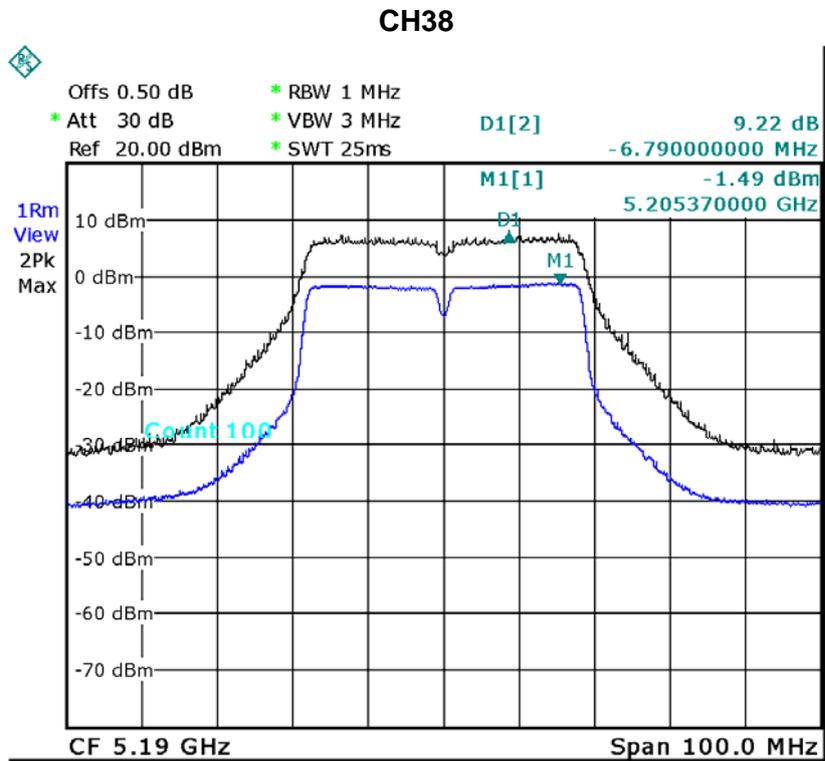


Date: 9.OCT.2012 14:01:43



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX N40 Mode/CH38, CH46		

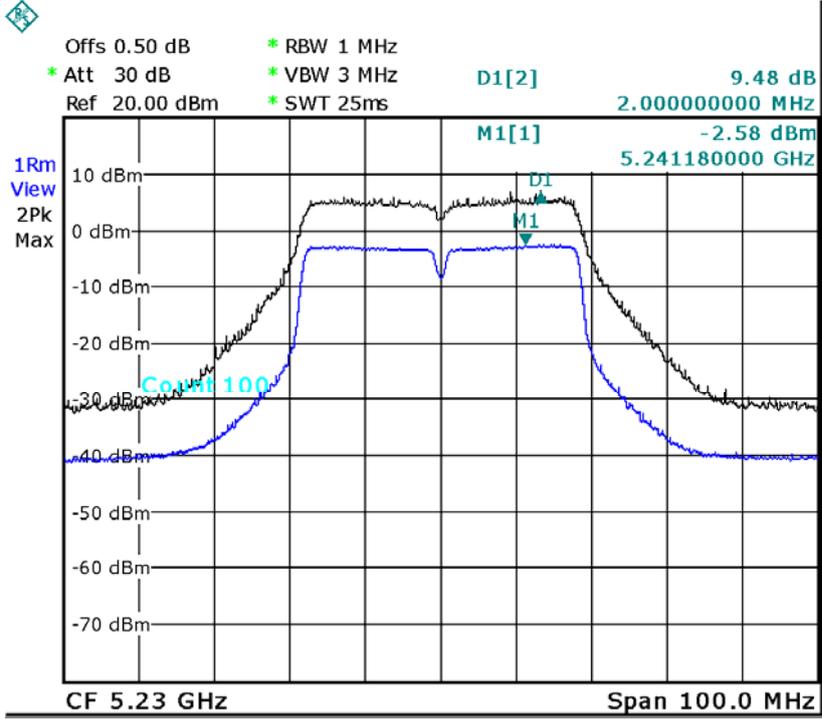
Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH38	5190	9.22	13
CH46	5230	9.48	13



Date: 9.OCT.2012 14:22:44



CH46

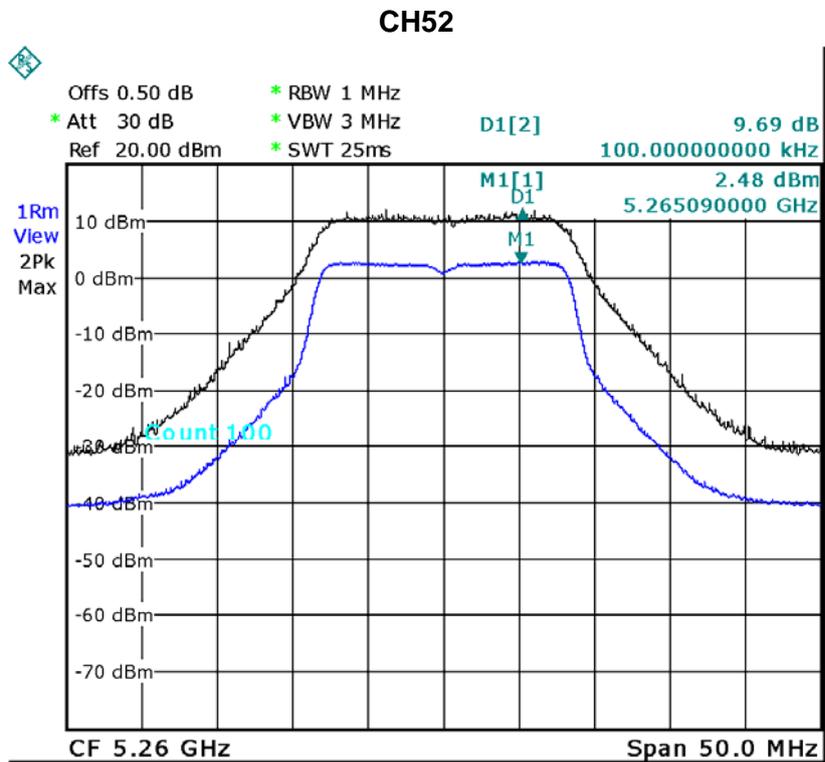


Date: 9.OCT.2012 14:20:29



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX A Mode/CH52, CH56, CH64		

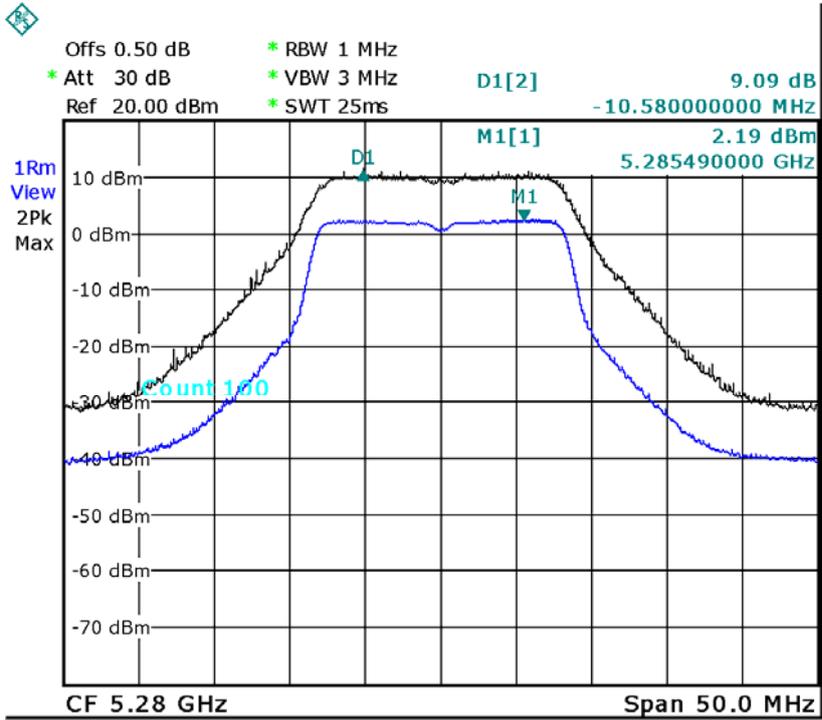
Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH52	5260	9.69	13
CH56	5280	9.09	13
CH64	5320	8.35	13



Date: 9.OCT.2012 13:27:21

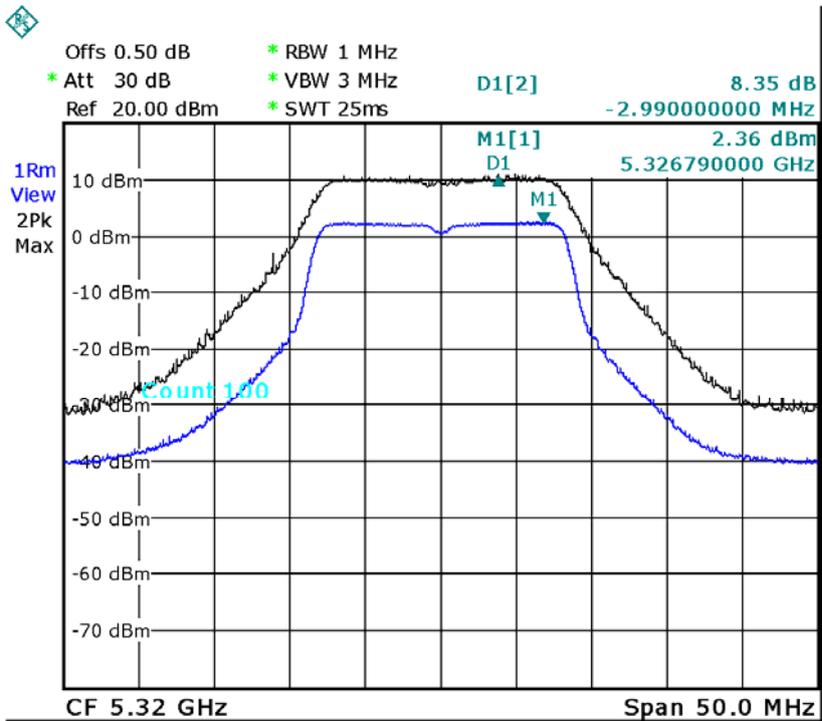


CH56



Date: 9.OCT.2012 13:30:23

CH64

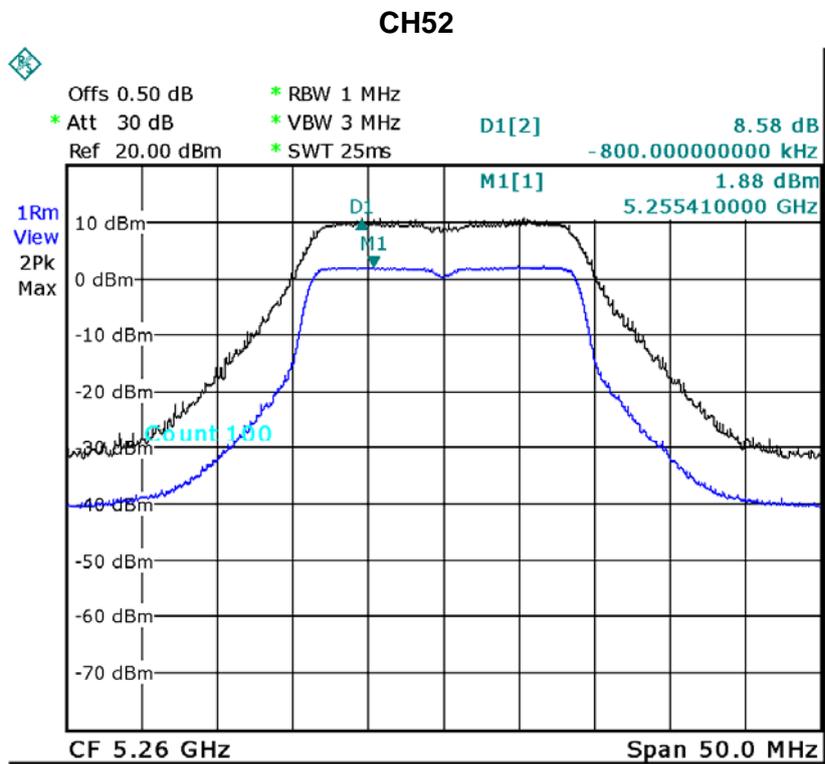


Date: 9.OCT.2012 13:32:06



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX N20 Mode/CH52, CH56, CH64		

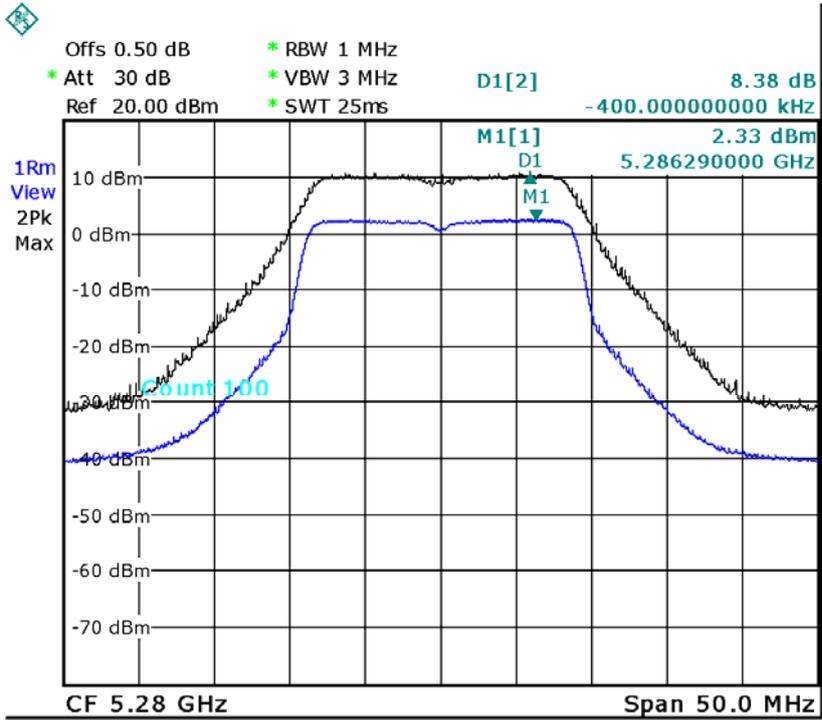
Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH52	5260	8.58	13
CH56	5280	8.38	13
CH64	5320	8.51	13



Date: 9.OCT.2012 13:58:33

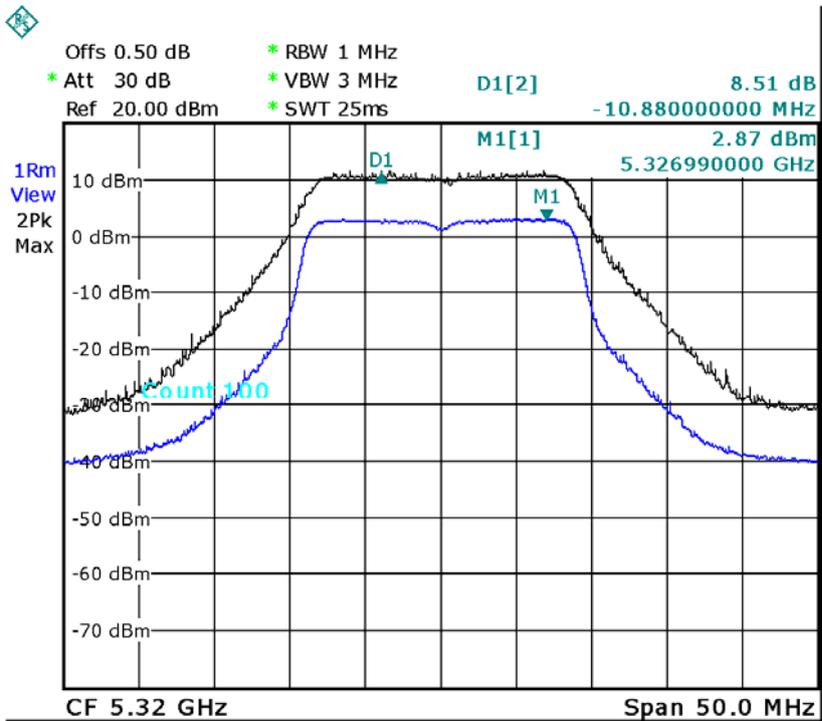


CH56



Date: 9.OCT.2012 13:55:08

CH64

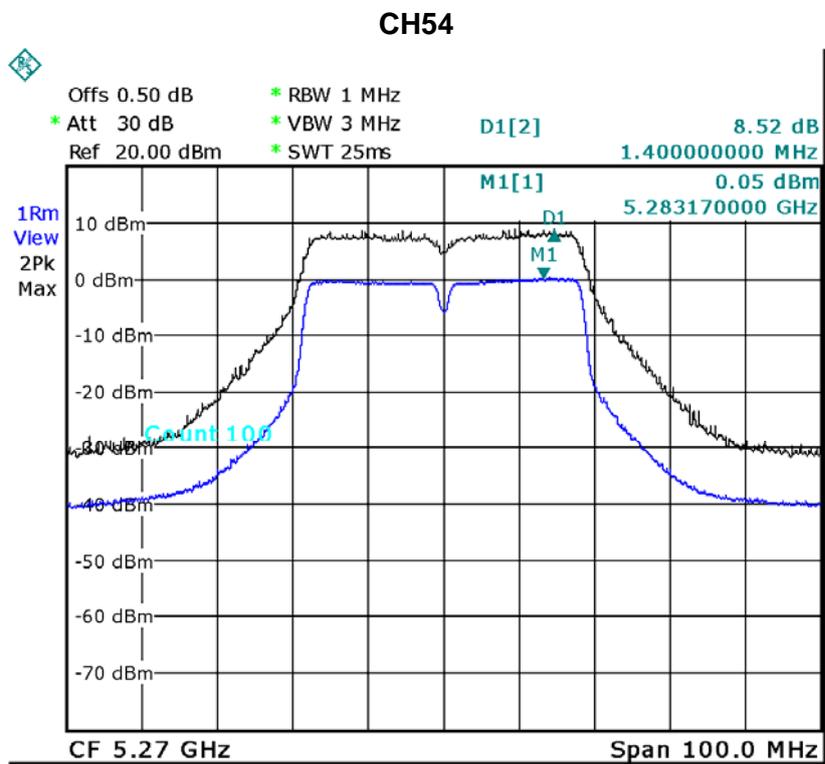


Date: 9.OCT.2012 13:53:20



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2/TX N40 Mode/CH54, CH62		

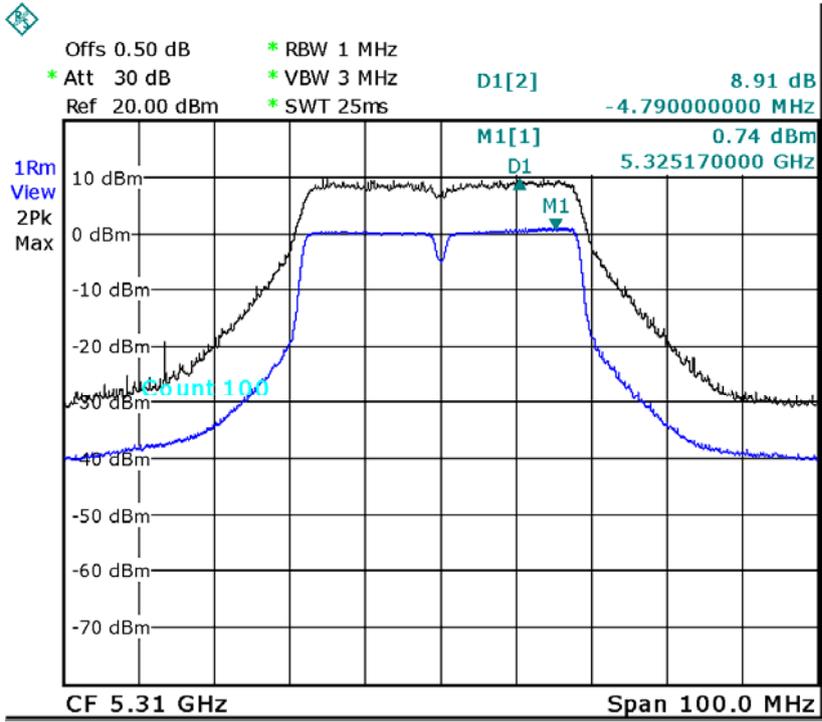
Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH54	5270	8.52	13
CH62	5310	8.91	13



Date: 9.OCT.2012 14:25:39



CH62

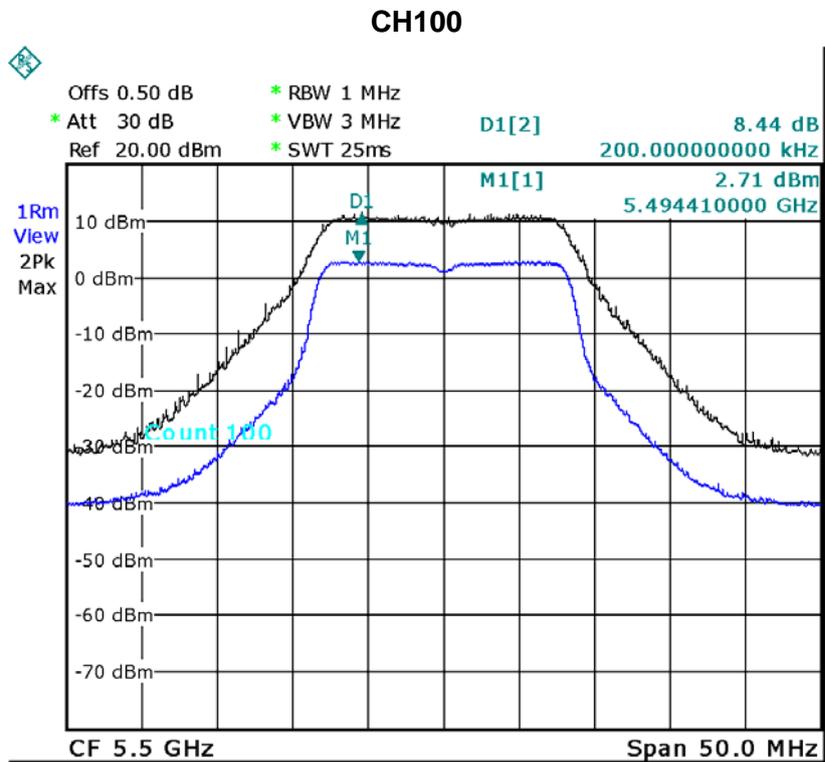


Date: 9.OCT.2012 14:27:29



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX A Mode/CH100, CH116, CH140		

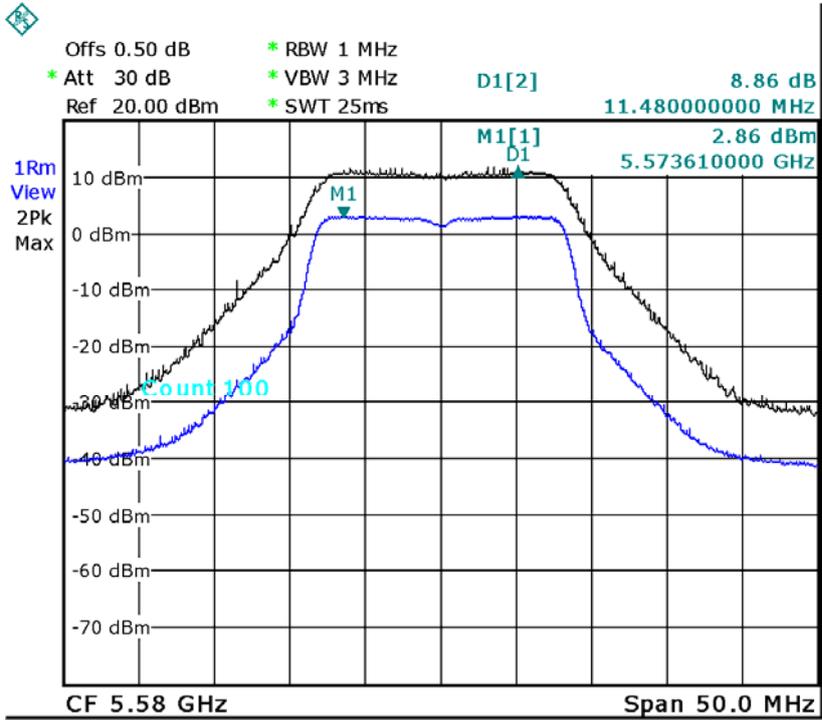
Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH100	5500	8.44	13
CH116	5580	8.86	13
CH140	5700	8.57	13



Date: 9.OCT.2012 13:34:26

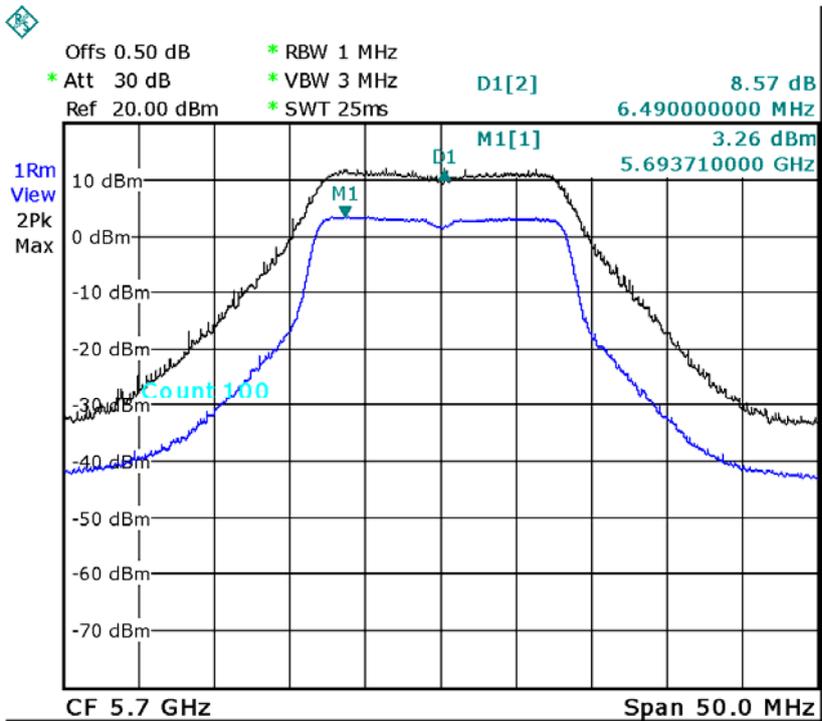


CH116



Date: 9.OCT.2012 13:36:11

CH140

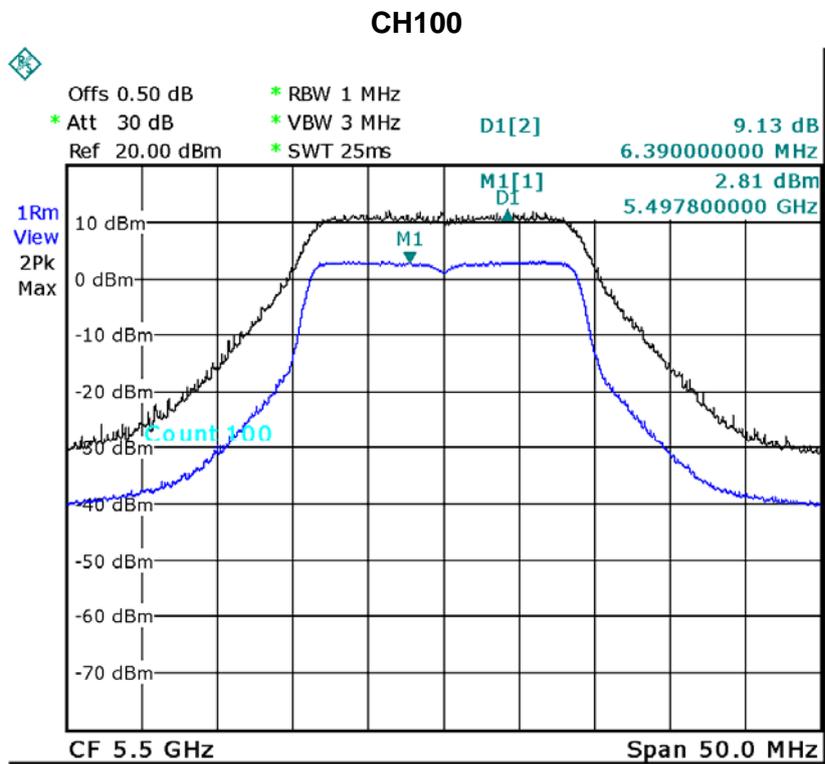


Date: 9.OCT.2012 13:40:02



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX N20 Mode/CH52, CH56, CH64		

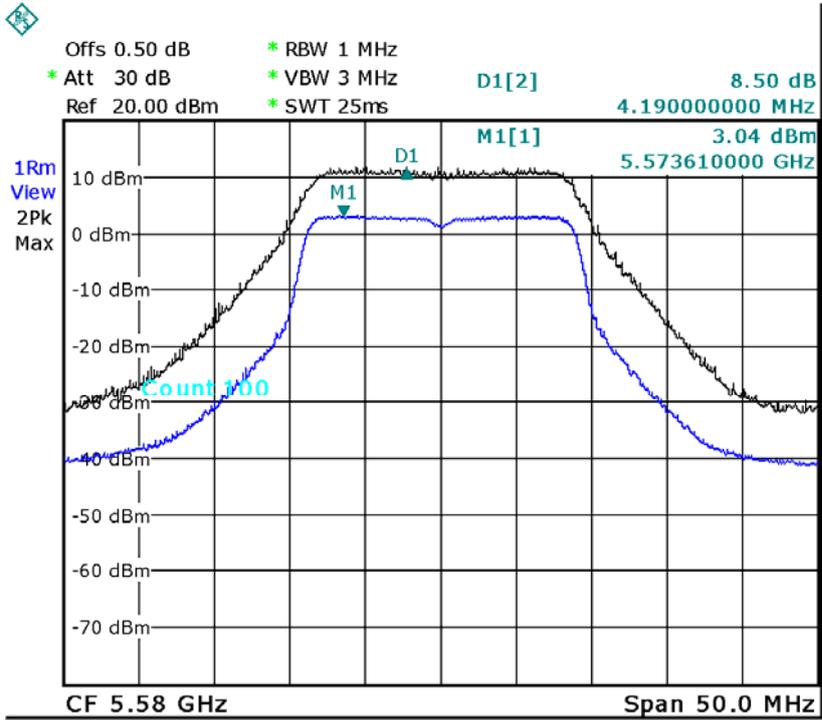
Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH100	5500	9.13	13
CH116	5580	8.50	13
CH140	5700	8.69	13



Date: 9.OCT.2012 13:49:27

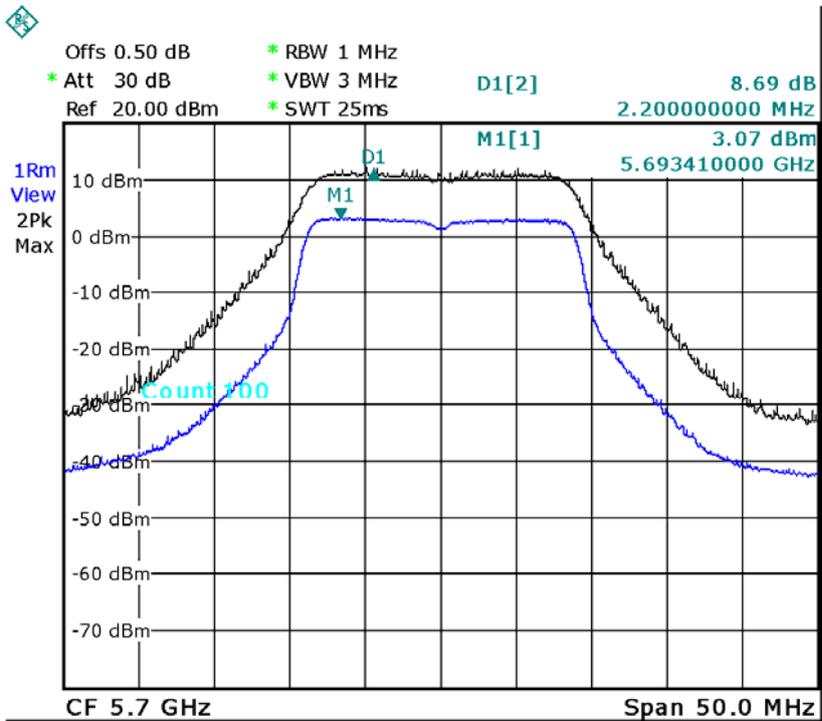


CH116



Date: 9.OCT.2012 13:45:23

CH140



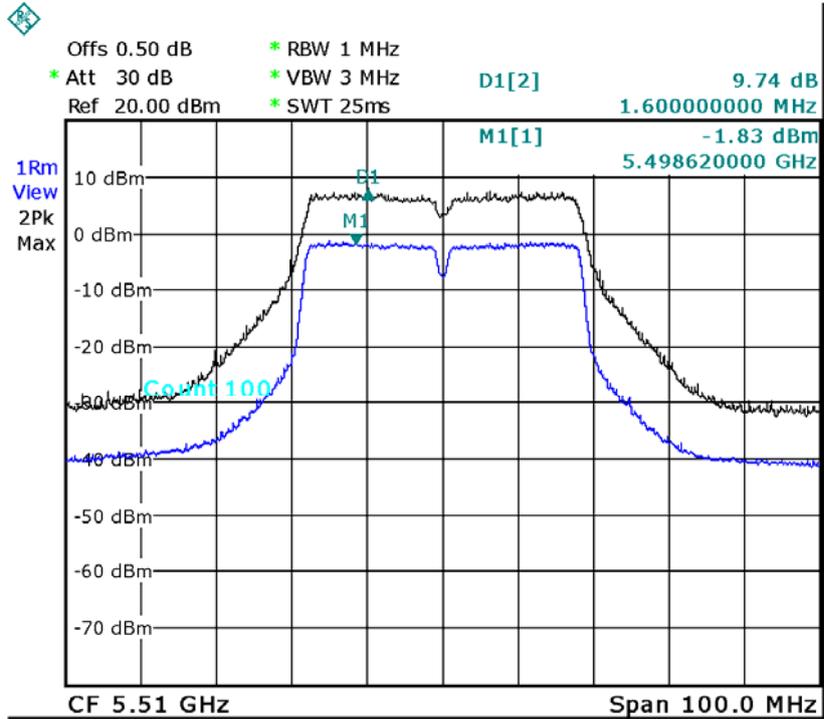
Date: 9.OCT.2012 13:42:52



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3/TX N40 Mode/CH102, CH110,CH134		

Test Channel	Frequency (MHz)	Peak Excursion (dB)	LIMIT (dB)
CH102	5510	9.74	13
CH110	5550	9.00	13
CH134	5670	8.59	13

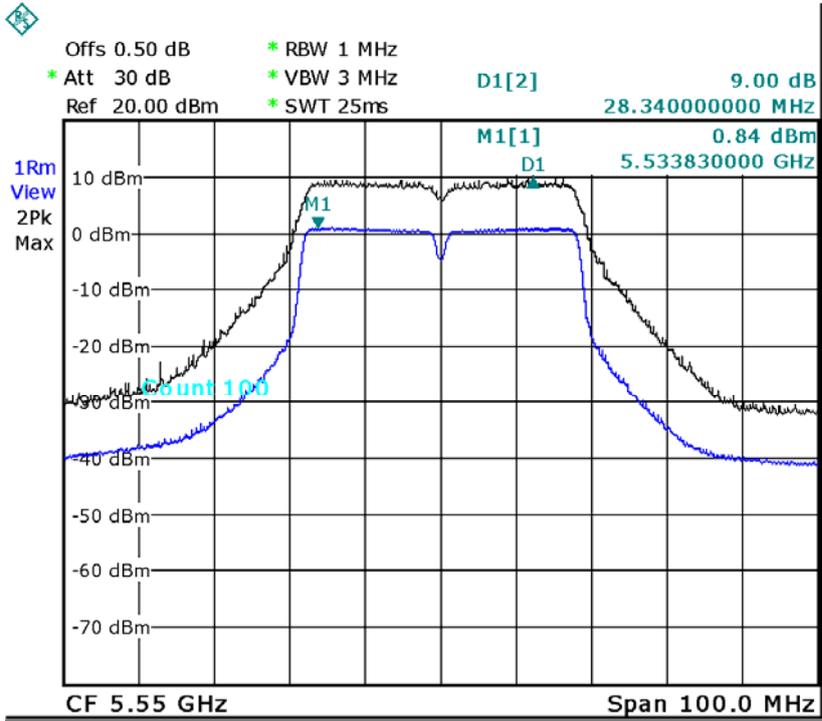
CH102



Date: 13.OCT.2012 13:29:37

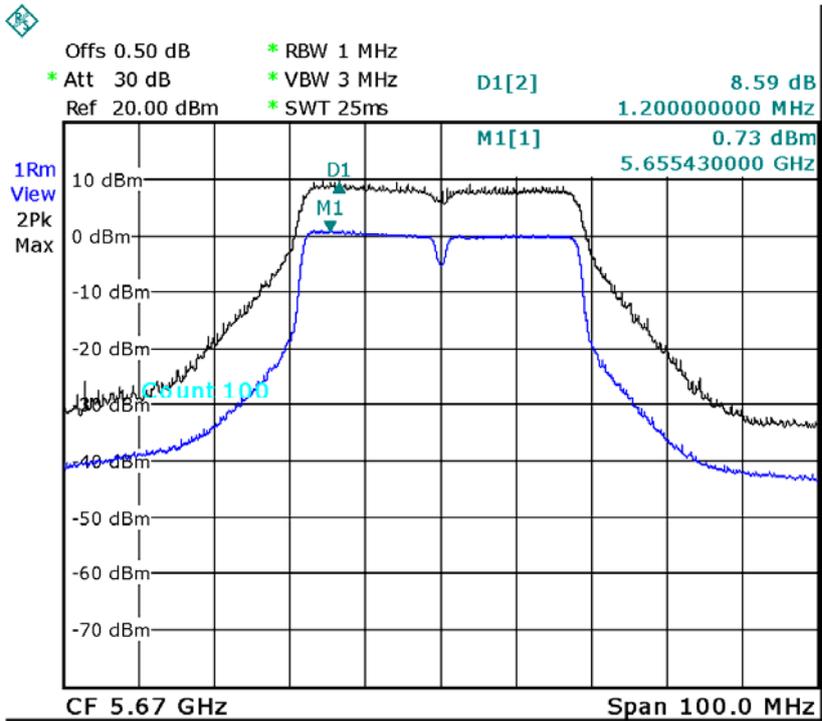


CH110



Date: 9.OCT.2012 14:34:52

CH134



Date: 9.OCT.2012 14:38:45



10. FREQUENCY STABILITY MEASUREMENT

10.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E 15.407(g)			
Test Item	Limit	Frequency Range (MHz)	Result
Frequency Stability	specified in the user's manual	5150 – 5250	PASS
		5250 – 5350	N/A
		5470 – 5725	N/A

10.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Nov.26.2012
2	Precision Oven Tester	HOLINK	H-T-1F-D	BA03101701	May. 11, 2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.
 All calibration period of Equipment List is One Year.

10.1.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RB	10 kHz
VB	10 kHz
Sweep Time	Auto

c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

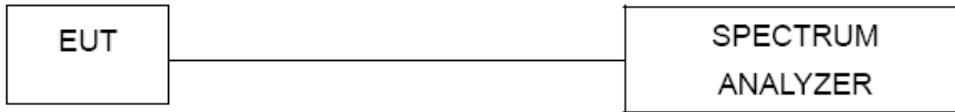
d. user manual temperature is -10°C~55°C.

10.1.3 DEVIATION FROM STANDARD

No deviation.



10.1.4 TEST SETUP



10.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



10.1.6 TEST RESULTS

EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25 °C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1		

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5180
138	5180.008780
120	5180.008720
102	5180.008800
Max. Deviation (MHz)	0.008800
Max. Deviation (ppm)	1.70
102	5180.008800

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5180
-10	5180.008900
5	5180.008500
15	5180.008000
25	5180.002500
35	5179.999780
45	5179.999690
55	5179.999520
Max. Deviation (MHz)	0.008900
Max. Deviation (ppm)	1.72



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 2		

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5320
138	5320.002400
120	5320.002900
102	5320.007800
Max. Deviation (MHz)	0.007800
Max. Deviation (ppm)	1.47
102	5320.007800

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5320
-10	5320.005590
5	5320.005190
15	5320.004120
25	5320.001860
35	5319.998260
45	5319.997360
55	5319.994810
Max. Deviation (MHz)	0.005590
Max. Deviation (ppm)	1.05



EUT :	Wireless LAN Access Point	Model Name :	AP7110DN-AGN
Temperature :	25° C	Relative Humidity :	58 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 3		

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5700
138	5700.000000
120	5700.002600
102	5700.004800
Max. Deviation (MHz)	0.004800
Max. Deviation (ppm)	0.84
102	5700.004800

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5700
-10	5700.006790
5	5700.006730
15	5700.004810
25	5700.000210
35	5699.999820
45	5699.999790
55	5699.999750
Max. Deviation (MHz)	0.006790
Max. Deviation (ppm)	1.19



11. EUT TEST PHOTO

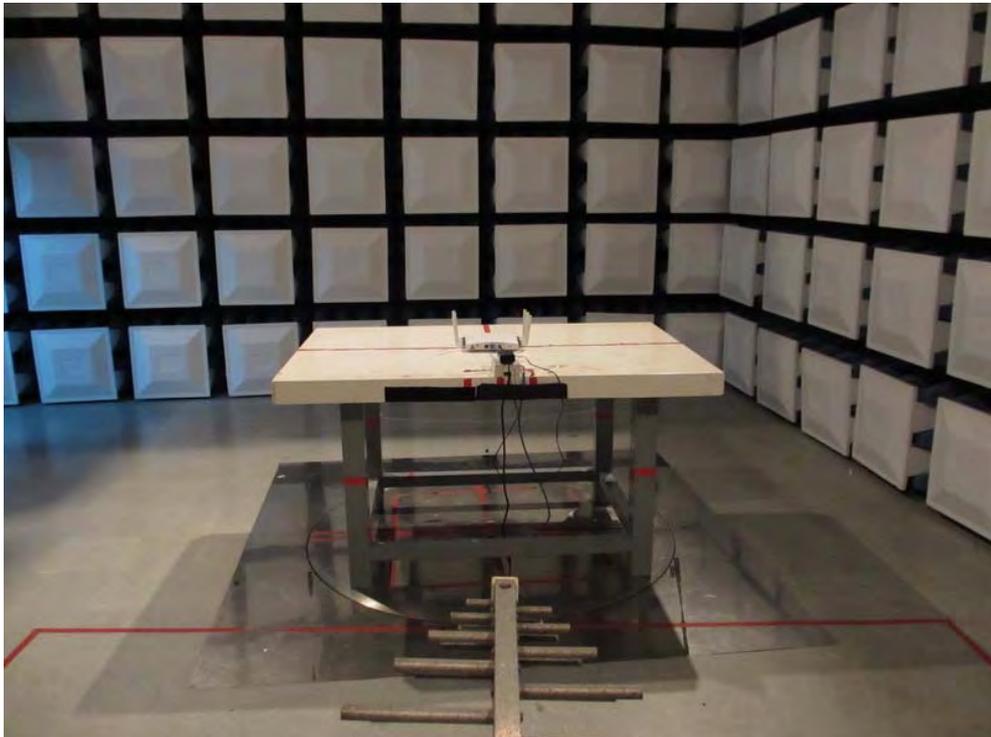
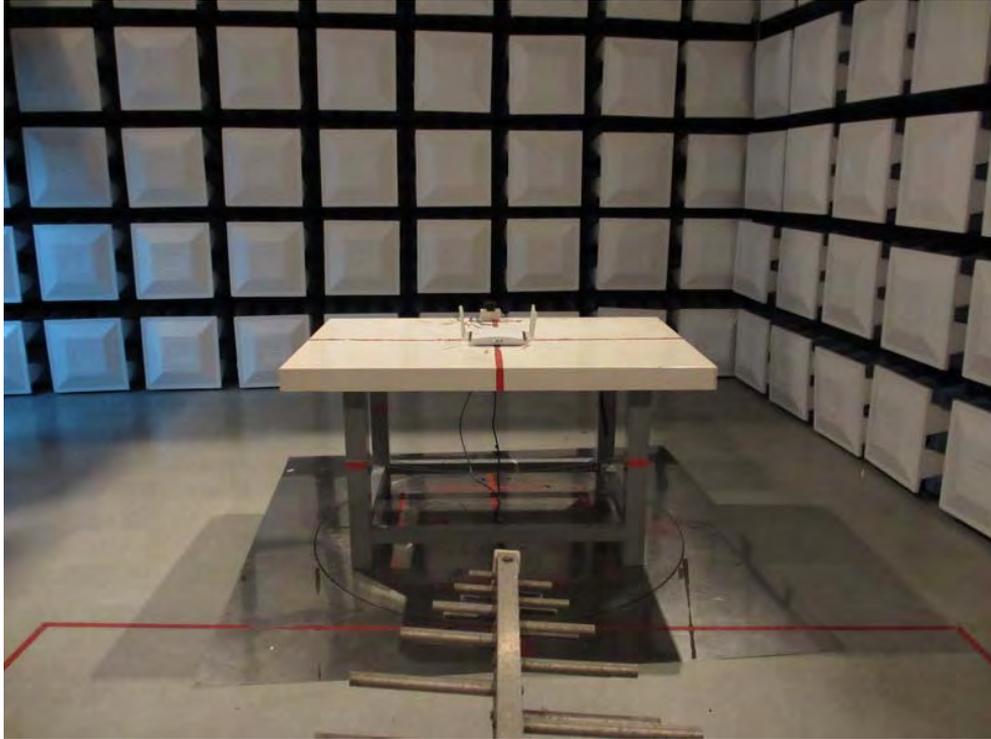
Conducted Measurement Photos



**Radiated Measurement Photos
9K-30MHz**



**Radiated Measurement Photos
30MHz-1GHz**





**Radiated Measurement Photos
Above 1GHz**

