

FCC Test Report

Part 15 subpart E

Client Information:

Applicant : Wistron Corporation
Applicant add.: 21F, 88, Sec. 1, Hsintai 5th Rd., Hsichih New Taipei City 22181
Taiwan, R.O.C.

EUT Information:

EUT Name : LCD Monitor
Model No. : DW271HL
Brand Name : 
FCC ID : PU5DW271HL

Prepared By:

Asia Institute Technology (Dongguan) Limited

Add. : No.6 Binhe Road, Tianxin Village, Huangjiang,
Dongguan, Guangdong, China.

Date of Receipt: Feb. 05, 2012

Date of Test: Feb. 06~Mar. 29, 2012

Date of Issue: Mar. 29, 2012

Test Result: **Pass**

Test procedure used: ANSI C63.4-2009

This device described above has been tested by Asia Institute Technology (Dongguan) Limited, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

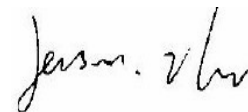
*This test report must not be used by the client to claim product endorsement by any agency of the U.S. government.

Reviewed by:



Seal.Chen

Approved by:



Jason.Zhu

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2 Test Summary

2.1 Compliance with FCC Part 15 subpart E

Test	Test Requirement	Standard Paragraph	Result
26 dB EMISSION BANDWIDTH	FCC Part 15 E:2008	Section 15.303(c)	PASS
Peak Transmit Power	FCC Part 15 E:2008	Section 15.407 (a)	PASS
Peak Power Spectral Density	FCC Part 15 E:2008	Section 15.407 (a)	PASS
AC Power Line Emissions	FCC Part 15 E:2008	Section 15.407 (b)	PASS
Radiated Emissions 30MHz - 40 GHz	FCC Part 15 E:2008	Section 15.407 (b)	PASS
Band Edge	FCC Part 15 E:2008	Section 15.407 (b)	PASS
Peak Power Excursion	FCC Part 15 E:2008	Section 15.407 (a)(6)	PASS
Note: Reference to the KDB-789033 and KDB-662911			

2.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, The following measurements uncertainty Levels have estimated based on ANSI C63.4:2009, the maximum value of the uncertainty as below

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	Radiated Emission Test	±3.57dB

3 Test Facility

The test facility is recognized, certified or accredited by the following organizations:

.FCC- Registration No: 248337

The 3m Semi-Anechoic Chamber, 3m/10m Open Area Test Site and Shielding Room of Asia Institute Technology (Dong guan) Limited have been registered by Federal Communications Commission (FCC) on Nov.20, 2009.

.Industry Canada(IC)-Registration No: IC6819A-1 & IC6819A-2

The 3m Semi-Anechoic Chamber and 3m/10m Open Area Test Site of Asia Institute Technology (Dongguan) Limited have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing on Nov.07, 2010.

.VCCI- Registration No: 2705

The 3m/10m Open Area Test Site and Shielding Room of Asia Institute Technology (Dongguan) Limited have been registered by Voluntary Control Council for Interference on Jan.24, 2010 and Oct. 30, 2010. The Telecommunication Ports Conducted Disturbance Measurement of Asia Institute Technology (Dongguan) Limited have been registered by Voluntary Control Council for Interference on Sep. 06, 2011.

.TUV Rhineland

Asia Institute Technology (Dongguan) Limited has been assessed on Dec.29, 2011 that it can carry out EMC tests by order and under supervision of TUV Rhineland.

.ITS- Registration No: TMPSHA031

Asia Institute Technology (Dongguan) Limited has been assessed and included in Intertek Shanghai TMP Program regarding Laboratory facilities and test equipment on Jul.22, 2011.

3.1 Deviation from standard


None

3.2 Abnormalities from standard conditions

None

4 General Information

4.1 General Description of EUT

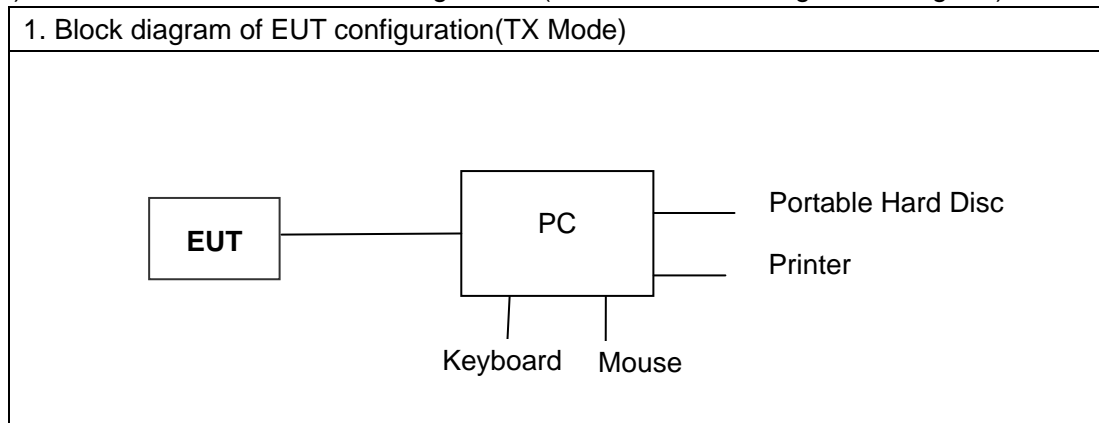
Manufacturer:	Wistron Corporation
Manufacturer Address:	21F, 88, Sec. 1, Hsintai 5th Rd., Hsichih New Taipei City 22181 Taiwan, R.O.C.
EUT Name:	LCD Monitor
Model No:	DW271HL
Operation frequency:	2400 MHz to 2483.5MHz & 5150 MHz to 5250MHz
Modulation Technology:	802.11a:BPSK(6Mbps,9Mbps),QPSK(12Mbps,18Mbps), 16QAM(24Mbps,36Mbps),64QAM(48Mbps,54Mbps) 802.11b:DBPSK(1Mbps),DQPSK(2Mbps),CCK(5.5Mbps,11Mbps) 802.11g:BPSK(6Mbps,9Mbps),QPSK(12Mbps,18Mbps), 16QAM(24Mbps,36Mbps),64QAM(48Mbps,54Mbps) 802.11n:BPSK(7.2Mbps,15Mbps),QPSK(14.4Mbps,21.7Mbps,30Mbps, 45Mbps), 16QAM(28.9Mbps, 43.3Mbps, 60Mbps, 90Mbps), 64QAM(57.8Mbps,65Mbps,72.2Mbps,120Mbps, 135 Mbps, 300Mbps)
Antenna Type:	PIFA
Brand Name:	
Serial No:	N/A
Power Supply Range:	AC 120V/60Hz
Power Supply:	AC 120V/60Hz
Power Cord:	N/A
Output power (max) :	ANT 1 802.11n(20M) (5.15GHz-5.25GHz): 8.31dBm ANT 1 802.11n(40M) (5.15GHz-5.25GHz): 6.59dBm ANT 1 802.11a (5.15GHz-5.25GHz): 6.74dBm ANT 2 802.11n(20M) (5.15GHz-5.25GHz): 9.00dBm ANT 2 802.11n(40M) (5.15GHz-5.25GHz): 6.69dBm ANT 2 802.11a (5.15GHz-5.25GHz):6.05dBm
Model description: N/A	



Description of Channel:			
802.11n(20M) (5.15GHz-5.25GHz) / 802.11a (5.15GHz-5.25GHz)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
42	5210		
802.11n(40M) (5.15GHz-5.25GHz)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	44	5220
42	5210		

4.2 Description of Test conditions

(1) EUT was tested in normal configuration (Please See following Block diagram)



(2) E.U.T. test conditions:

15.31(e): For intentional radiators, measurements of the variation of the input power or the adiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

(3) Test frequencies:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. If required reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

(4) Frequency range of radiated measurements:

According to the 15.33, The test range will be up to the tenth harmonic of the highest fundamental frequency .

(5) For all tests the worst-case was selected as the table below, the data of the worst-case is shown in the report.

ANT 1 802.11n(20M) (5.15GHz-5.25GHz)	: BPSK(7.2Mbps)
ANT 1 802.11n(40M) (5.15GHz-5.25GHz)	: BPSK(7.2Mbps)
ANT 1 802.11a (5.15GHz-5.25GHz)	: BPSK(6Mbps)
ANT 2 802.11n(20M) (5.15GHz-5.25GHz)	: BPSK(7.2Mbps)
ANT 2 802.11n(40M) (5.15GHz-5.25GHz)	: BPSK(7.2Mbps)
ANT 2 802.11a (5.15GHz-5.25GHz)	: BPSK(6Mbps)

4.3 EUT Peripheral List

No.	Equipment	Manufacturer	Model No.	Serial No.	Power cord	signal cable
1	AC/DC ADAPTER	DELTA ELECTRONIC, INC.	ADP-40PH BB	N/A	N/A	N/A

4.4 Test Peripheral List

No.	Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	Power cord	signal cable
1	Personal computer	H P	CE 、 FCC	DX2310	CNG8250MZ3	1.8m/unshielded /detachable	N/A
2	Keyboard	DELL	CE	SK-8115	CN-ONM432-71616-81M-OLK B	N/A	1.5m/unshielded /undetachable
3	Mouse	Microsoft	CE	X800898	30603	N/A	1.5m/unshielded /undetachable
4	Printer	EPSON	CE	STYLUS C45	FY9YC48288	1.5m/unshielded /detachable	1.8m/unshielded /detachable
5	Portable Hard Disc	ALUMINUM	CE	3.5 HDD Storage Box	06832c009	1.8m/unshielded /detachable	1.2m/unshielded /detachable

5 Equipments List for All Test Items

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	Spectrum Analyzer	ADVANTEST	R3182	150900201	2011.10.16	2012.10.15
2	EMI Measuring Receiver	Schaffner	SCR3501	235	2011.10.16	2012.10.15
3	Preamplifier	Agilent	8449B	3008A01911	2011.09.08	2012.09.07
4	Preamplifier	Agilent	8447D	2944A10634	2011.04.08	2012.04.07
5	BILOG Antenna	SCHWARZBECK	VULB9168	9168-156	2011.07.15	2012.07.14
6	HORN Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	2011.07.15	2012.07.14
7	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2011.09.08	2012.09.07
8	EMI Test Receiver	R&S	ESCI	100124	2011.12.29	2012.12.28
9	LISN	Kyoritsu	KNW-242	8-837-4	2011.04.08	2012.04.07
10	LISN	Kyoritsu	KNW-407	8-1789-3	2011.04.08	2012.04.07
11	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2011.09.08	2012.09.07
12	Loop Antenna	ARA	PLA-1030/B	1029	2012.03.20	2013.03.19
13	Power Meter	R&S	NRVS	101336	2011.04.08	2012.04.07
14	26GHz ~ 40GHz Amplifier	Agilent	EM26400	07026401	2011.04.08	2012.04.07

6 Test Result

6.1 Conduction Emissions Measurement

6.1.1 Applied procedures / Limit

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

Note: Decreases with the logarithm of the frequency.

6.1.2 Test procedure

EUT was placed upon a wooden test table 0.8m above the horizontal metal reference plane and 0.4m from the vertical ground plane, and it was connected to an AMN. The closest distance between the boundary of the EUT and the surface of the AMN is 0.8m. All peripherals were connected to another AMN, and placed at a distance of 10cm from each other. A spectrum and receiver was connected to the RF output port of the AMN. Both average and quasi-peak value were detected.

6.1.3 Test results

EUT:	LCD Monitor	Model Name. :	DW271HL
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2012-02-09
Test Mode:	TX	Phase :	Line
Test Voltage :	AC 120V/60Hz		

Frequency (MHz)	Factor (dB)	Meter Reading (dBμV)		Emission Level (dBμV)		Limits (dBμV)		Margin (dB)	
		QP	Average	QP	Average	QP	Average	QP	Average
0.1620	11.68	42.70	30.28	54.38	41.96	65.36	55.36	-10.98	-13.40
0.2379	10.93	34.22	24.12	45.15	35.05	62.17	52.17	-17.02	-17.12
0.5262	10.33	33.17	26.03	43.50	36.36	56.00	46.00	-12.50	-9.64
1.2860	10.19	21.58	14.18	31.77	24.37	56.00	46.00	-24.23	-21.63
5.1097	10.19	20.69	11.27	30.88	21.46	60.00	50.00	-29.12	-28.54
*10.8459	1.32	51.40	42.24	52.72	43.56	60.00	50.00	-7.28	-6.44

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. "*" means the worst case

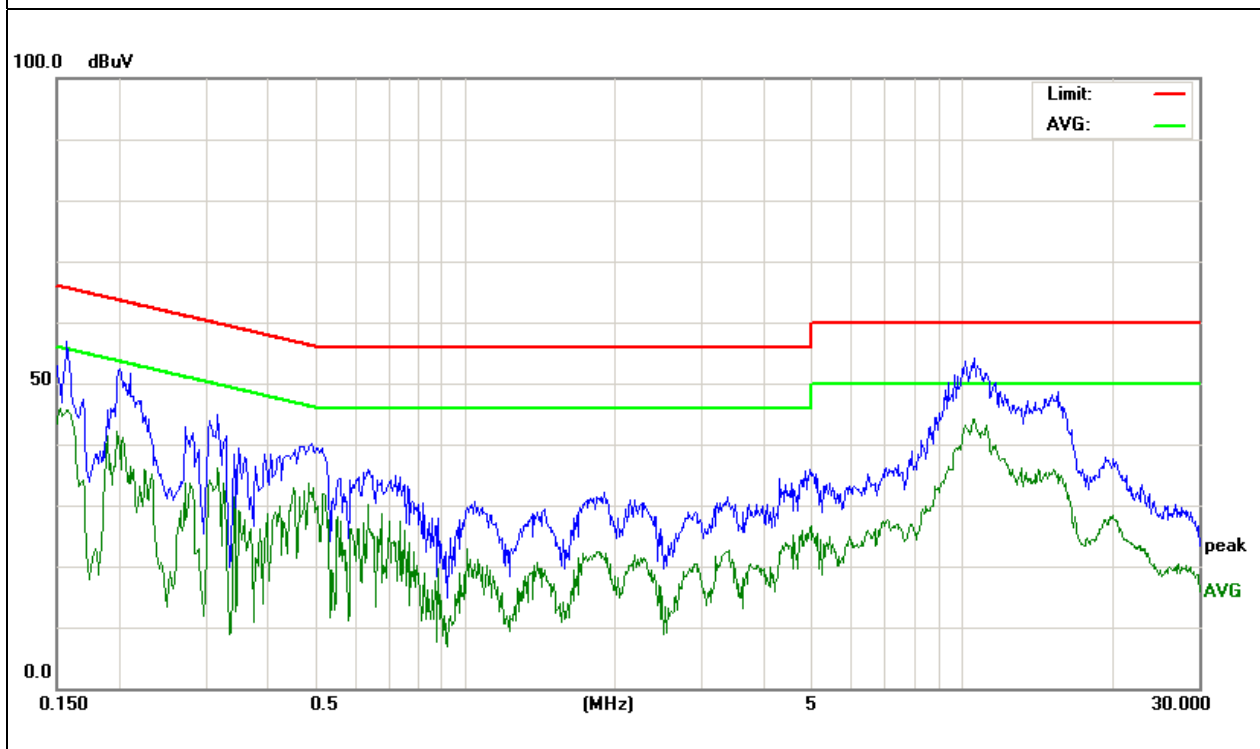


EUT:	LCD Monitor	Model Name. :	DW271HL
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2012-02-09
Test Mode:	TX	Phase :	Neutral
Test Voltage :	AC 120V/60Hz		

Frequency (MHz)	Factor (dB)	Meter Reading (dBμV)		Emission Level (dBμV)		Limits (dBμV)		Margin (dB)	
		QP	Average	QP	Average	QP	Average	QP	Average
0.1524	11.88	37.58	33.98	49.46	45.86	65.86	55.86	-16.40	-10.00
0.1980	11.16	37.68	30.98	48.84	42.14	63.69	53.69	-14.85	-11.55
0.3180	10.69	34.24	25.37	44.93	36.06	59.76	49.76	-14.83	-13.70
0.6340	10.29	25.48	19.87	35.77	30.16	56.00	46.00	-20.23	-15.84
4.9659	10.19	25.01	16.50	35.20	26.69	56.00	46.00	-20.80	-19.31
*10.5335	1.29	51.31	42.91	52.60	44.20	60.00	50.00	-7.40	-5.80

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. "*" means the worst case



6.2 Radiated Emissions Measurement

6.2.1 Applied procedures / Limit

Frequency of Emission (MHz)	Field Strength		Measurement Distance (meters)
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	
0.009-0.49	2400/F(kHz)		300
0.49-1.705	24000/F(kHz)		30
1.705-30	30		30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

6.2.2 Test procedure

EUT was placed upon a wooden test table which was placed on the turn table 0.8m above the horizontal metal ground plane, and operating in the mode as mentioned above. A receiving antenna was placed 3m away from the EUT. During testing, turn around the turn table and move the antenna from 1m to 4m to find the maximum field-strength reading. All peripherals were placed at a distance of 10cm between each other. Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

6.2.3 Test Result

There is not detected blow 30MHz.

EUT:	LCD Monitor	Model Name :	DW271HL
Temperature:	25 °C	Test Data	2012-02-09
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	TX	Test Voltage :	AC 120V/60Hz
Measurement Distance	3 m	Frenqucy Range	30MHz to 1GHz
RBW/VBW	100KHz / 300KHz for spectrum, RBW=120KHz for receiver.		

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
*30.3170	51.46	-15.26	36.20	40.00	-3.80	QUASPEAK
42.0065	52.38	-16.48	35.90	40.00	-4.10	QUASPEAK
96.0986	48.66	-16.36	32.30	43.50	-11.20	QUASPEAK
244.2321	37.40	-10.67	26.73	46.00	-19.27	QUASPEAK
389.3548	43.94	-8.66	35.28	46.00	-10.72	QUASPEAK
721.7259	30.56	-1.48	29.08	46.00	-16.92	QUASPEAK

(b) Antenna polarization: vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
30.2105	49.38	-15.18	34.20	40.00	-5.80	QUASPEAK
*41.4215	52.87	-16.57	36.30	40.00	-3.70	QUASPEAK
76.5121	45.08	-17.38	27.70	40.00	-12.30	QUASPEAK
122.4038	45.82	-13.02	32.80	43.50	-10.70	QUASPEAK
204.2375	43.91	-11.21	32.70	43.50	-10.80	QUASPEAK
570.6100	38.11	-3.59	34.52	46.00	-11.48	QUASPEAK

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

EUT:	LCD Monitor	Model Name :	DW271HL
Temperature:	25 °C	Test Data	2012-02-09
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	802.11n(20M)(5.15-5.25G) (ANT1)	Test Voltage :	AC 120V/60Hz
Measurement Distance	3 m	Frenqucy Range	1GHz to 40GHz
RBW/VBW	1MHz/1MHz for Peak, 1MHz/10Hz for Average.		

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
*10360.000	55.48	12.56	68.04	74.00	-5.96	PEAK
10360.000	35.25	12.56	47.81	54.00	-6.19	AVERAGE
15540.000	50.11	16.45	66.56	74.00	-7.44	PEAK
15540.000	27.65	16.45	44.10	54.00	-9.90	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	54.31	12.56	66.87	74.00	-7.13	PEAK
10360.000	33.54	12.56	46.10	54.00	-7.90	AVERAGE
*15540.000	51.21	16.45	67.66	74.00	-6.34	PEAK
15540.000	28.46	16.45	44.91	54.00	-9.09	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 36: 5180 MHz

Data rate: 7.2Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	53.47	12.64	66.11	74.00	-7.89	PEAK
10440.000	32.58	12.64	45.22	54.00	-8.78	AVERAGE
*15660.000	50.16	16.53	66.69	74.00	-7.31	PEAK
15660.000	27.95	16.53	44.48	54.00	-9.52	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	52.39	12.64	65.03	74.00	-8.97	PEAK
10440.000	32.08	12.64	44.72	54.00	-9.28	AVERAGE
*15660.000	51.62	16.53	68.15	74.00	-5.85	PEAK
15660.000	31.12	16.53	47.65	54.00	-6.35	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 44: 5220 MHz

Data rate: 7.2Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10460.000	52.45	12.66	65.11	74.00	-8.89	PEAK
10460.000	32.34	12.66	45.00	54.00	-9.00	AVERAGE
*15690.000	49.21	16.53	65.74	74.00	-8.26	PEAK
15690.000	29.15	16.53	45.68	54.00	-8.32	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10460.000	51.45	12.66	64.11	74.00	-9.89	PEAK
10460.000	31.28	12.66	43.94	54.00	-10.06	AVERAGE
*15690.000	51.10	16.53	67.63	74.00	-6.37	PEAK
15690.000	30.16	16.53	46.69	54.00	-7.31	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 46: 5230 MHz

Data rate: 7.2Mbps

EUT:	LCD Monitor	Model Name :	DW271HL
Temperature:	25 °C	Test Data	2012-02-09
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	802.11n(40M)(5.15-5.25G) (ANT1)	Test Voltage :	AC 120V/60Hz
Measurement Distance	3 m	Frenqucy Range	1GHz to 18GHz
RBW/VBW	1MHz/1MHz for Peak, 1MHz/10Hz for Average.		

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10380.000	54.02	12.58	66.60	74.00	-7.40	PEAK
10380.000	33.36	12.58	45.94	54.00	-8.06	AVERAGE
*15570.000	50.22	16.48	66.70	74.00	-7.30	PEAK
15570.000	28.61	16.48	45.09	54.00	-8.91	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
*10380.000	54.27	12.58	66.85	74.00	-7.15	PEAK
10380.000	33.36	12.58	45.94	54.00	-8.06	AVERAGE
15570.000	49.16	16.48	65.64	74.00	-8.36	PEAK
15570.000	27.62	16.48	44.10	54.00	-9.90	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 38: 5190 MHz

Data rate: 7.2Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	54.26	12.64	66.90	74.00	-7.10	PEAK
10440.000	33.32	12.64	45.96	54.00	-8.04	AVERAGE
*15660.000	51.83	16.53	68.36	74.00	-5.64	PEAK
15660.000	27.96	16.53	44.49	54.00	-9.51	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	53.24	12.64	65.88	74.00	-8.12	PEAK
10440.000	33.17	12.64	45.81	54.00	-8.19	AVERAGE
*15660.000	50.41	16.53	66.94	74.00	-7.06	PEAK
15660.000	28.15	16.53	44.68	54.00	-9.32	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 44: 5220 MHz

Data rate: 7.2Mbps

EUT:	LCD Monitor	Model Name :	DW271HL
Temperature:	25 °C	Test Data	2012-02-09
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	802.11a(5.15-5.25G)	Test Voltage :	AC 120V/60Hz
Measurement Distance	3 m	Frenqucy Range	1GHz to 18GHz
RBW/VBW	1MHz/1MHz for Peak, 1MHz/10Hz for Average.		

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	50.26	12.56	62.82	74.00	-11.18	PEAK
10360.000	29.71	12.56	42.27	54.00	-11.73	AVERAGE
15540.000	49.42	16.45	65.87	74.00	-8.13	PEAK
*15540.000	29.65	16.45	46.10	54.00	-7.90	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	51.44	12.56	64.00	74.00	-10.00	PEAK
10360.000	30.75	12.56	43.31	54.00	-10.69	AVERAGE
*15540.000	49.53	16.45	65.98	74.00	-8.02	PEAK
15540.000	28.65	16.45	45.10	54.00	-8.90	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 36: 5180 MHz

Data rate: 6Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	51.87	12.64	64.51	74.00	-9.49	PEAK
10440.000	31.45	12.64	44.09	54.00	-9.91	AVERAGE
*15660.000	49.82	16.53	66.35	74.00	-7.65	PEAK
15660.000	29.56	16.53	46.09	54.00	-7.91	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	50.42	12.64	63.06	74.00	-10.94	PEAK
10440.000	29.78	12.64	42.42	54.00	-11.58	AVERAGE
*15660.000	50.19	16.53	66.72	74.00	-7.28	PEAK
15660.000	28.00	16.53	44.53	54.00	-9.47	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 44: 5220 MHz

Data rate: 6Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10460.000	52.45	12.66	65.11	74.00	-8.89	PEAK
10460.000	32.16	12.66	44.82	54.00	-9.18	AVERAGE
*15690.000	51.92	16.53	68.45	74.00	-5.55	PEAK
15690.000	29.16	16.53	45.69	54.00	-8.31	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10460.000	50.52	12.66	63.18	74.00	-10.82	PEAK
10460.000	30.16	12.66	42.82	54.00	-11.18	AVERAGE
*15690.000	50.64	16.53	67.17	74.00	-6.83	PEAK
15690.000	30.21	16.53	46.74	54.00	-7.26	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 46: 5230 MHz

Data rate: 6Mbps

EUT:	LCD Monitor	Model Name :	DW271HL
Temperature:	25 °C	Test Data	2012-02-09
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	802.11n(20M)(5.15-5.25G) (ANT2)	Test Voltage :	AC 120V/60Hz
Measurement Distance	3 m	Frenqucy Range	1GHz to 18GHz
RBW/VBW	1MHz/1MHz for Peak, 1MHz/10Hz for Average.		

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
*10360.000	55.36	12.56	67.92	74.00	-6.08	PEAK
10360.000	34.69	12.56	47.25	54.00	-6.75	AVERAGE
15540.000	50.73	16.45	67.18	74.00	-6.82	PEAK
15540.000	27.64	16.45	47.09	54.00	-6.91	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
*10360.000	55.13	12.56	67.69	74.00	-6.31	PEAK
10360.000	34.86	12.56	47.42	54.00	-6.58	AVERAGE
15540.000	49.73	16.45	66.18	74.00	-7.82	PEAK
15540.000	28.92	16.45	45.37	54.00	-8.63	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 36: 5180 MHz

Data rate: 7.2Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	52.39	12.64	65.03	74.00	-8.97	PEAK
10440.000	31.58	12.64	44.22	54.00	-9.78	AVERAGE
*15660.000	51.91	16.53	68.44	74.00	-5.56	PEAK
15660.000	29.19	16.53	47.72	54.00	-6.28	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
*10440.000	55.41	12.64	68.05	74.00	-5.95	PEAK
10440.000	34.42	12.64	47.06	54.00	-6.94	AVERAGE
15660.000	50.18	16.53	66.71	74.00	-7.29	PEAK
15660.000	29.40	16.53	45.93	54.00	-8.07	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 44: 5220 MHz

Data rate: 7.2Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
*10460.000	53.71	12.66	66.37	74.00	-7.63	PEAK
10460.000	33.50	12.66	46.16	54.00	-7.84	AVERAGE
15690.000	49.89	16.53	66.42	74.00	-7.58	PEAK
15690.000	28.96	16.53	45.49	54.00	-8.51	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
*10460.000	53.66	12.66	66.32	74.00	-7.68	PEAK
10460.000	33.16	12.66	45.82	54.00	-8.18	AVERAGE
15690.000	48.16	16.53	64.69	74.00	-9.31	PEAK
15690.000	27.48	16.53	44.01	54.00	-9.99	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 46: 5230 MHz

Data rate: 7.2Mbps

EUT:	LCD Monitor	Model Name :	DW271HL
Temperature:	25 °C	Test Data	2012-02-09
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	802.11n(40M)(5.15-5.25G) (ANT2)	Test Voltage :	AC 120V/60Hz
Measurement Distance	3 m	Frenqucy Range	1GHz to 18GHz
RBW/VBW	1MHz/1MHz for Peak, 1MHz/10Hz for Average.		

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10380.000	53.95	12.58	66.53	74.00	-7.47	PEAK
10380.000	33.24	12.58	45.82	54.00	-8.18	AVERAGE
*15570.000	51.13	16.48	67.61	74.00	-6.39	PEAK
15570.000	28.94	16.48	45.42	54.00	-8.58	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10380.000	53.27	12.58	65.85	74.00	-8.15	PEAK
10380.000	32.36	12.58	44.94	54.00	-9.06	AVERAGE
15570.000	51.50	16.48	67.98	74.00	-6.02	PEAK
15570.000	29.16	16.48	45.64	54.00	-8.36	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 38: 5190 MHz

Data rate: 7.2Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
*10440.000	53.21	12.64	65.85	74.00	-8.15	PEAK
10440.000	32.32	12.64	44.96	54.00	-9.04	AVERAGE
15660.000	49.30	16.53	65.83	74.00	-8.17	PEAK
15660.000	27.60	16.53	44.13	54.00	-9.87	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	53.26	12.64	65.90	74.00	-8.10	PEAK
10440.000	32.54	12.64	45.18	54.00	-8.82	AVERAGE
*15660.000	50.16	16.53	66.69	74.00	-7.31	PEAK
15660.000	29.46	16.53	45.99	54.00	-8.01	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 44: 5220 MHz

Data rate: 7.2Mbps

EUT:	LCD Monitor	Model Name :	DW271HL
Temperature:	25 °C	Test Data	2012-02-09
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	802.11a(5.15-5.25)(ANT2)	Test Voltage :	AC 120V/60Hz
Measurement Distance	3 m	Frenqucy Range	1GHz to 18GHz
RBW/VBW	1MHz/1MHz for Peak, 1MHz/10Hz for Average.		

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	52.41	12.56	64.97	74.00	-9.03	PEAK
10360.000	31.01	12.56	43.57	54.00	-10.43	AVERAGE
15540.000	49.14	16.45	65.59	74.00	-8.41	PEAK
15540.000	28.19	16.45	44.64	54.00	-9.36	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	51.35	12.56	63.91	74.00	-10.09	PEAK
10360.000	31.12	12.56	43.68	54.00	-10.32	AVERAGE
15540.000	50.87	16.45	67.32	74.00	-6.68	PEAK
15540.000	29.25	16.45	45.70	54.00	-8.30	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 36: 5180 MHz

Data rate: 6Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBUV)	Correct Factor (dB)	Measure Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector Type
10440.000	51.24	12.64	63.88	74.00	-10.12	PEAK
10440.000	30.40	12.64	43.04	54.00	-10.96	AVERAGE
*15660.000	49.39	16.53	65.92	74.00	-8.08	PEAK
15660.000	27.61	16.53	44.14	54.00	-9.86	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBUV)	Correct Factor (dB)	Measure Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector Type
10440.000	50.58	12.64	63.22	74.00	-10.78	PEAK
10440.000	29.75	12.64	42.39	54.00	-11.61	AVERAGE
*15660.000	49.88	16.53	66.41	74.00	-7.59	PEAK
15660.000	28.46	16.53	44.99	54.00	-9.01	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 44: 5220 MHz

Data rate: 6Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10460.000	50.40	12.66	63.06	74.00	-10.94	PEAK
10460.000	29.79	12.66	42.45	54.00	-11.55	AVERAGE
15690.000	51.16	16.53	67.69	74.00	-6.31	PEAK
15690.000	28.39	16.53	44.92	54.00	-9.08	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10460.000	51.88	12.66	64.54	74.00	-9.46	PEAK
10460.000	31.16	12.66	43.82	54.00	-10.18	AVERAGE
*15690.000	50.56	16.53	67.09	74.00	-6.91	PEAK
15690.000	27.60	16.53	44.13	54.00	-9.87	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 46: 5230 MHz

Data rate: 6Mbps

EUT:	LCD Monitor	Model Name :	DW271HL
Temperature:	25 °C	Test Data	2012-03-29
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	802.11n(20M)(5.15-5.25G) (ANT1+ANT2)	Test Voltage :	AC 120V/60Hz
Measurement Distance	3 m	Frenqucy Range	1GHz to 40GHz
RBW/VBW	1MHz/1MHz for Peak, 1MHz/10Hz for Average.		

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	56.51	12.56	69.07	74.00	-4.93	PEAK
*10360.000	36.85	12.56	49.41	54.00	-4.59	AVERAGE
15540.000	52.36	16.45	68.81	74.00	-5.19	PEAK
15540.000	31.13	16.45	47.58	54.00	-6.42	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	56.77	12.56	69.33	74.00	-4.67	PEAK
10360.000	35.44	12.56	48.00	54.00	-6.00	AVERAGE
*15540.000	53.11	16.45	69.56	74.00	-4.44	PEAK
15540.000	32.51	16.45	48.96	54.00	-5.04	AVERAGE

Note: ‘*’ means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 36: 5180 MHz

Data rate: 7.2Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	54.84	12.64	67.48	74.00	-6.52	PEAK
10440.000	33.62	12.64	46.26	54.00	-7.74	AVERAGE
*15660.000	52.12	16.53	68.65	74.00	-5.35	PEAK
15660.000	30.01	16.53	46.54	54.00	-7.46	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	55.41	12.64	68.05	74.00	-5.95	PEAK
10440.000	34.72	12.64	47.36	54.00	-6.64	AVERAGE
*15660.000	53.13	16.53	69.66	74.00	-4.34	PEAK
15660.000	33.12	16.53	49.65	54.00	-4.35	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 44: 5220 MHz

Data rate: 7.2Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10460.000	55.13	12.66	67.79	74.00	-6.21	PEAK
10460.000	34.70	12.66	47.36	54.00	-6.64	AVERAGE
15690.000	51.32	16.53	67.85	74.00	-6.15	PEAK
*15690.000	31.41	16.53	47.94	54.00	-6.06	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10460.000	53.78	12.66	66.44	74.00	-7.56	PEAK
10460.000	32.77	12.66	45.43	54.00	-8.57	AVERAGE
*15690.000	53.13	16.53	69.66	74.00	-4.34	PEAK
15690.000	32.49	16.53	49.02	54.00	-4.98	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 46: 5230 MHz

Data rate: 7.2Mbps

EUT:	LCD Monitor	Model Name :	DW271HL
Temperature:	25 °C	Test Data	2012-03-29
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	802.11n(40M)(5.15-5.25G) (ANT1+ANT2)	Test Voltage :	AC 120V/60Hz
Measurement Distance	3 m	Frenqucy Range	1GHz to 18GHz
RBW/VBW	1MHz/1MHz for Peak, 1MHz/10Hz for Average.		

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10380.000	55.77	12.58	68.35	74.00	-5.65	PEAK
10380.000	34.86	12.58	47.44	54.00	-6.56	AVERAGE
*15570.000	52.38	16.48	68.86	74.00	-5.14	PEAK
15570.000	31.12	16.48	47.60	54.00	-6.40	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10380.000	55.36	12.58	67.94	74.00	-6.06	PEAK
10380.000	35.18	12.58	47.76	54.00	-6.24	AVERAGE
*15570.000	52.33	16.48	68.81	74.00	-5.19	PEAK
15570.000	29.65	16.48	46.13	54.00	-7.87	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 38: 5190 MHz

Data rate: 7.2Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	55.65	12.64	68.29	74.00	-5.71	PEAK
10440.000	34.78	12.64	47.42	54.00	-6.58	AVERAGE
*15660.000	52.31	16.53	68.84	74.00	-5.16	PEAK
15660.000	29.62	16.53	46.15	54.00	-7.85	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
*10440.000	56.03	12.64	68.67	74.00	-5.33	PEAK
10440.000	35.88	12.64	48.52	54.00	-5.48	AVERAGE
15660.000	51.33	16.53	67.86	74.00	-6.14	PEAK
15660.000	30.78	16.53	47.31	54.00	-6.69	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 44: 5220 MHz

Data rate: 7.2Mbps

EUT:	LCD Monitor	Model Name :	DW271HL
Temperature:	25 °C	Test Data	2012-03-29
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	802.11a(5.15-5.25G) (ANT1+ANT2)	Test Voltage :	AC 120V/60Hz
Measurement Distance	3 m	Frenqucy Range	1GHz to 18GHz
RBW/VBW	1MHz/1MHz for Peak, 1MHz/10Hz for Average.		

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	52.33	12.56	64.89	74.00	-9.11	PEAK
10360.000	31.28	12.56	43.84	54.00	-10.16	AVERAGE
*15540.000	52.31	16.45	68.76	74.00	-5.24	PEAK
15540.000	31.40	16.45	47.85	54.00	-6.15	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	53.52	12.56	66.08	74.00	-7.92	PEAK
10360.000	33.25	12.56	45.81	54.00	-8.19	AVERAGE
*15540.000	51.10	16.45	67.55	74.00	-6.45	PEAK
15540.000	29.74	16.45	46.19	54.00	-7.81	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 36: 5180 MHz

Data rate: 6Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	54.32	12.64	66.96	74.00	-7.04	PEAK
10440.000	33.78	12.64	46.42	54.00	-7.58	AVERAGE
15660.000	51.48	16.53	68.01	74.00	-5.99	PEAK
*15660.000	32.33	16.53	48.86	54.00	-5.14	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	52.37	12.64	65.01	74.00	-8.99	PEAK
10440.000	31.25	12.64	43.89	54.00	-10.11	AVERAGE
*15660.000	52.77	16.53	69.30	74.00	-4.70	PEAK
15660.000	32.22	16.53	48.75	54.00	-5.25	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 44: 5220 MHz

Data rate: 6Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10460.000	54.78	12.66	67.44	74.00	-6.56	PEAK
10460.000	35.12	12.66	47.78	54.00	-6.22	AVERAGE
*15690.000	53.24	16.53	69.77	74.00	-4.23	PEAK
15690.000	32.71	16.53	49.24	54.00	-4.76	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10460.000	52.13	12.66	64.79	74.00	-9.21	PEAK
10460.000	31.72	12.66	44.38	54.00	-9.62	AVERAGE
*15690.000	52.69	16.53	69.22	74.00	-4.78	PEAK
15690.000	31.78	16.53	48.31	54.00	-5.69	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 46: 5230 MHz

Data rate: 6Mbps

6.3 26dB BANDWIDTH TEST

6.3.1 Applied procedures / Limit

According to §15.303(c), for purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Compliance with the emissions limits is based on the use of measurement instrumentation employing a peak detector function with an instrument resolutions bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

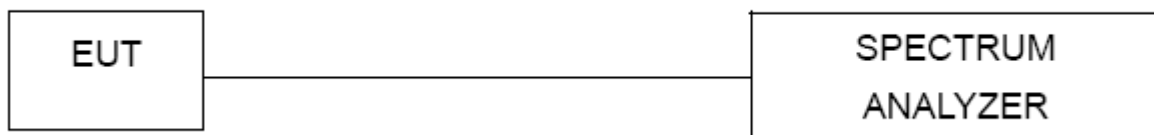
6.3.2 Test procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100KHz, VBW \cong RBW, Sweep time = Auto.

6.3.3 Deviation from standard

No deviation.

6.3.4 Test setup

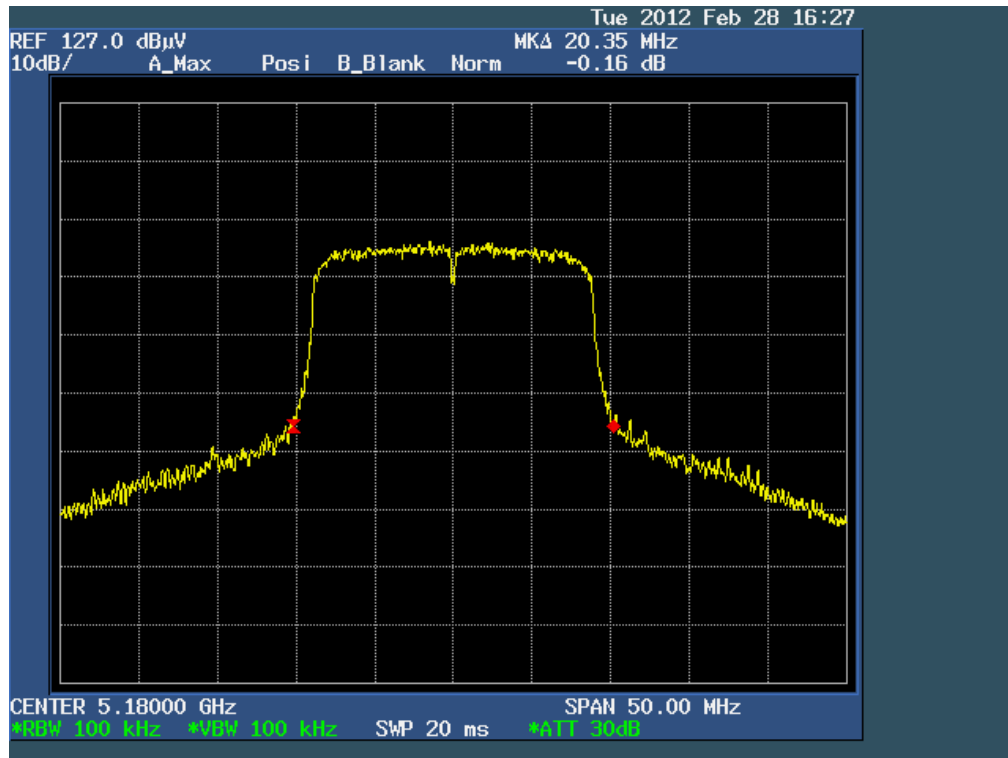


6.3.5 Test results

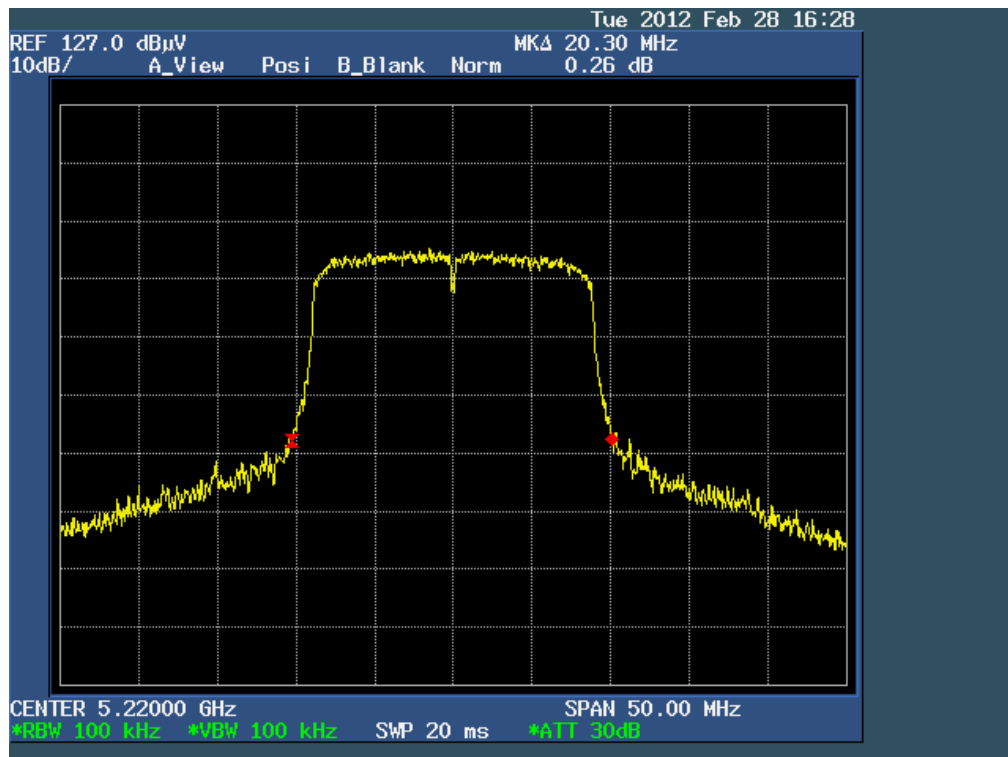
EUT:	LCD Monitor	Model Name :	DW271HL
Temperature:	26 °C	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX		

Test Mode	Test Channel	Frequency (MHz)	26 dB Bandwidth (KHz)
Ant 1 802.11n(20M) (5.15GHz-5.25GHz) Data rate 7.2Mbps	CH36	5180	20350
	CH44	5220	20300
	CH46	5230	20300
Ant 1 802.11n(40M) (5.15GHz-5.25GHz) Data rate 7.2Mbps	CH38	5190	52160
	CH44	5220	48320
Ant 1 802.11a (5.15GHz-5.25GHz) Data rate 6Mbps	CH36	5180	21450
	CH44	5220	20800
	CH46	5230	20600
Ant 2 802.11n(20M) (5.15GHz-5.25GHz) Data rate 7.2Mbps	CH36	5180	21000
	CH44	5220	21000
	CH48	5230	21550
Ant 2 802.11n(40M) (5.15GHz-5.25GHz) Data rate 7.2Mbps	CH38	5190	66300
	CH44	5220	52200
Ant 2 802.11a (5.15GHz-5.25GHz) Data rate 6Mbps	CH36	5180	21050
	CH44	5220	21250
	CH46	5230	21550

Ant 1 802.11n(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz

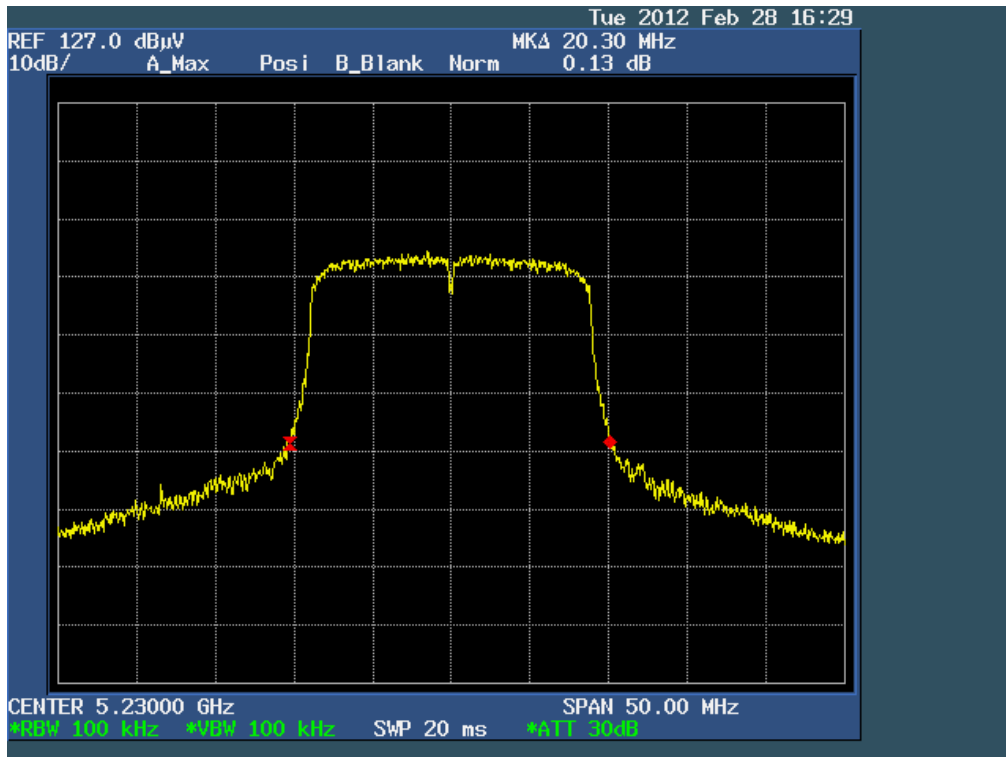


Ant 1 802.11n(20M) (5.15GHz-5.25GHz)
The Middle Channel 44: 5220MHz



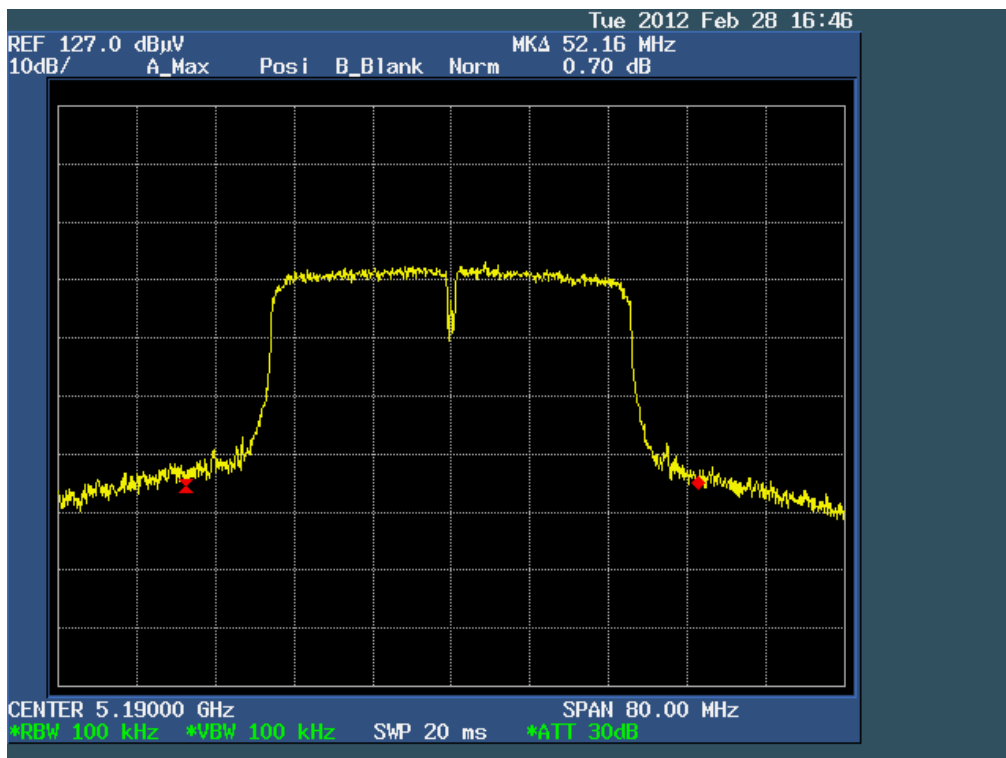
Ant 1 802.11n(20M) (5.15GHz-5.25GHz)

The High Channel 46: 5230MHz



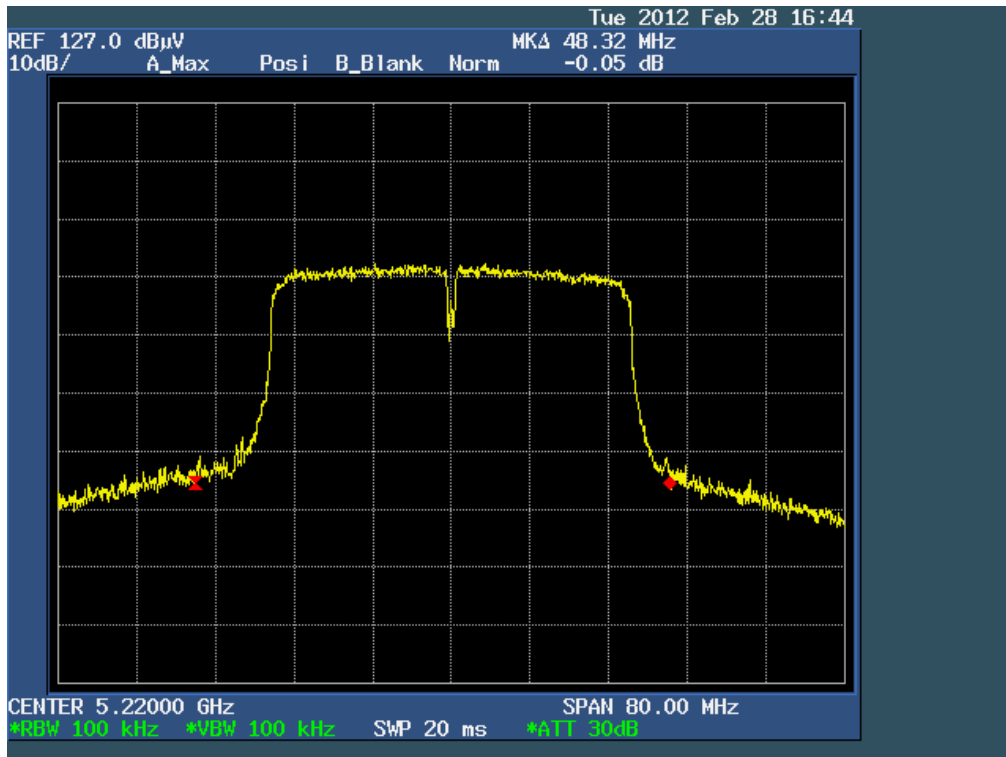
Ant 1 802.11n(40M) (5.15GHz-5.25GHz)

The Lowest Channel 38: 5190MHz



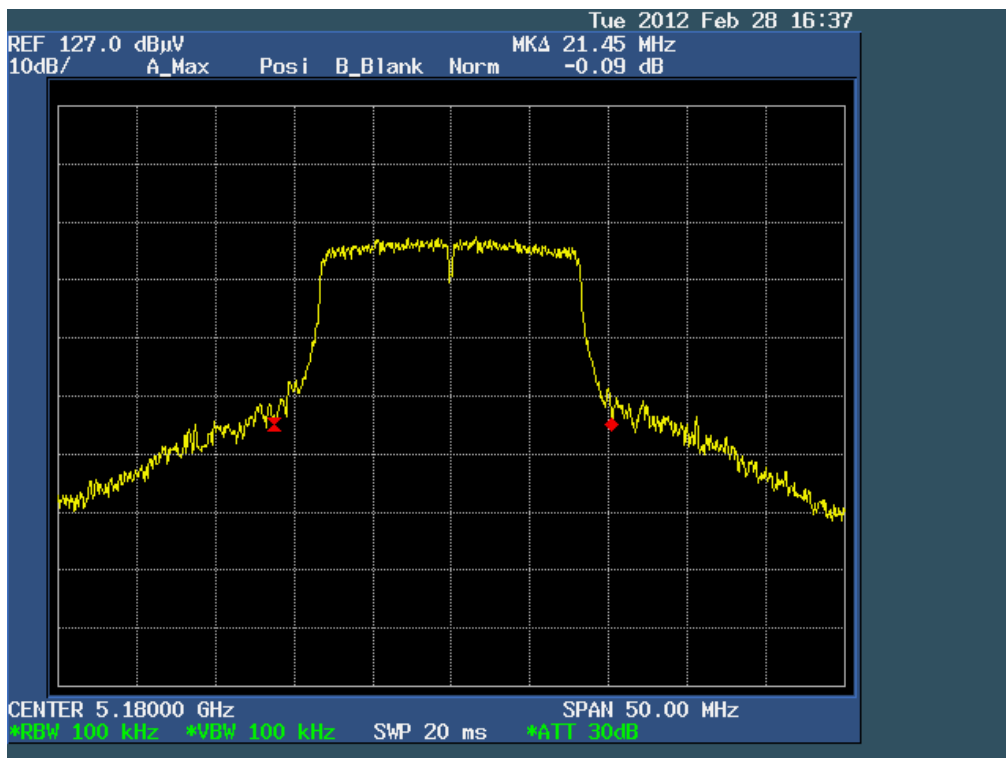
Ant 1 802.11n(40M) (5.15GHz-5.25GHz)

The High Channel 44: 5220MHz

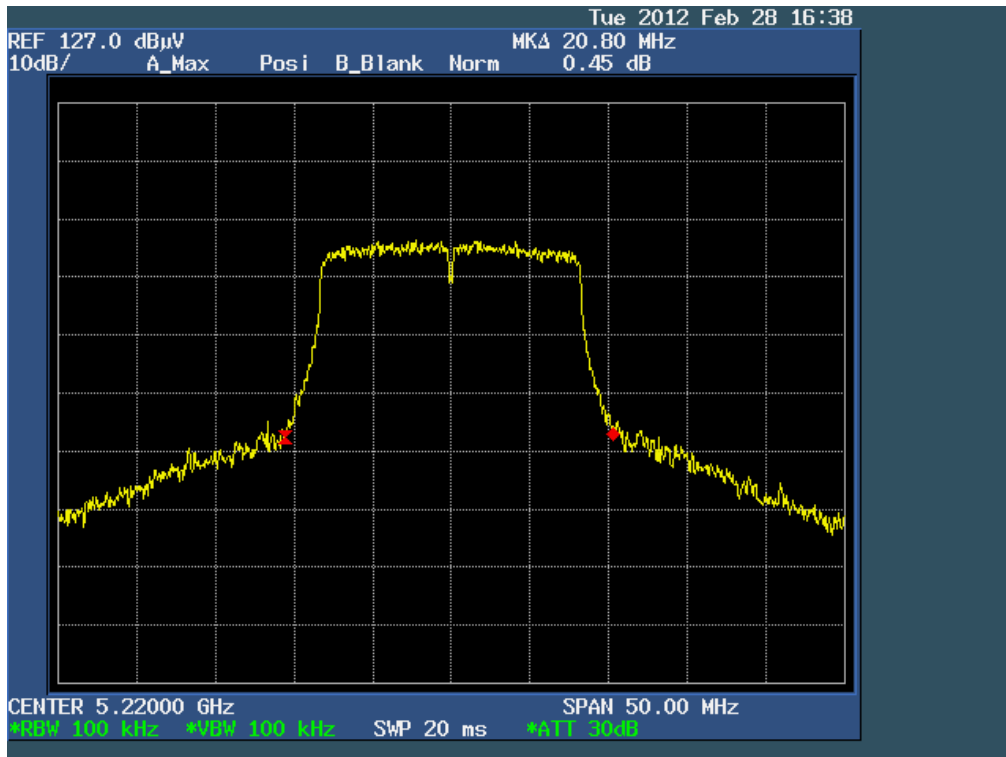


Ant 1 802.11a (5.15GHz-5.25GHz)

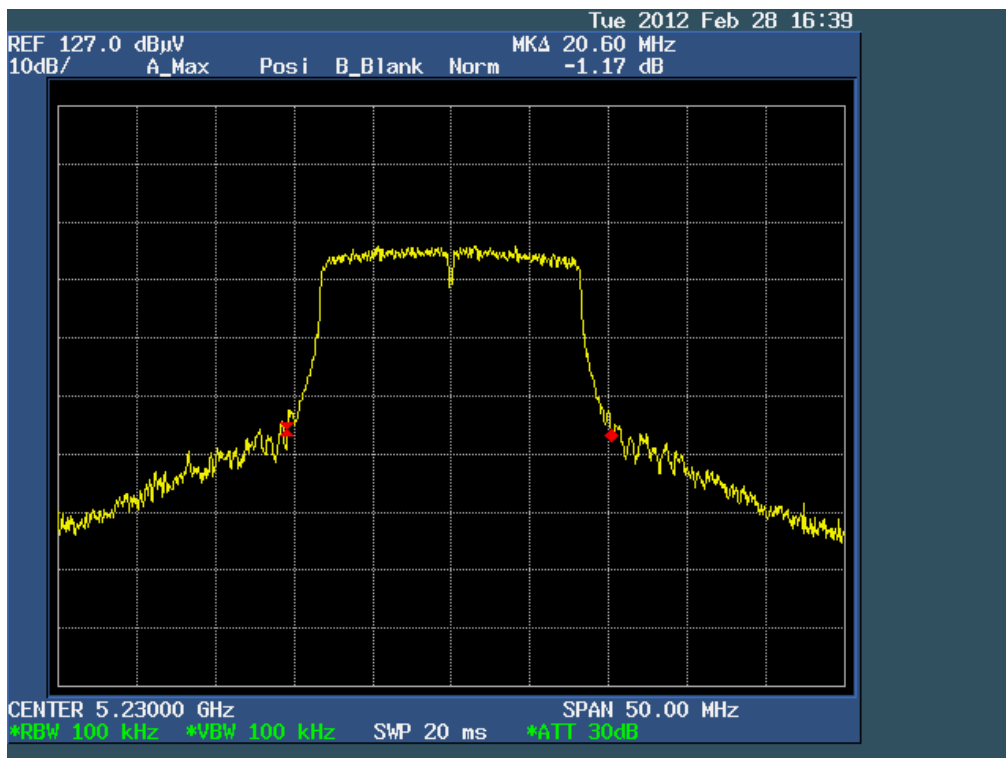
The Lowest Channel 36: 5180MHz



Ant 1 802.11a (5.15GHz-5.25GHz)
The Middle Channel 44: 5220MHz

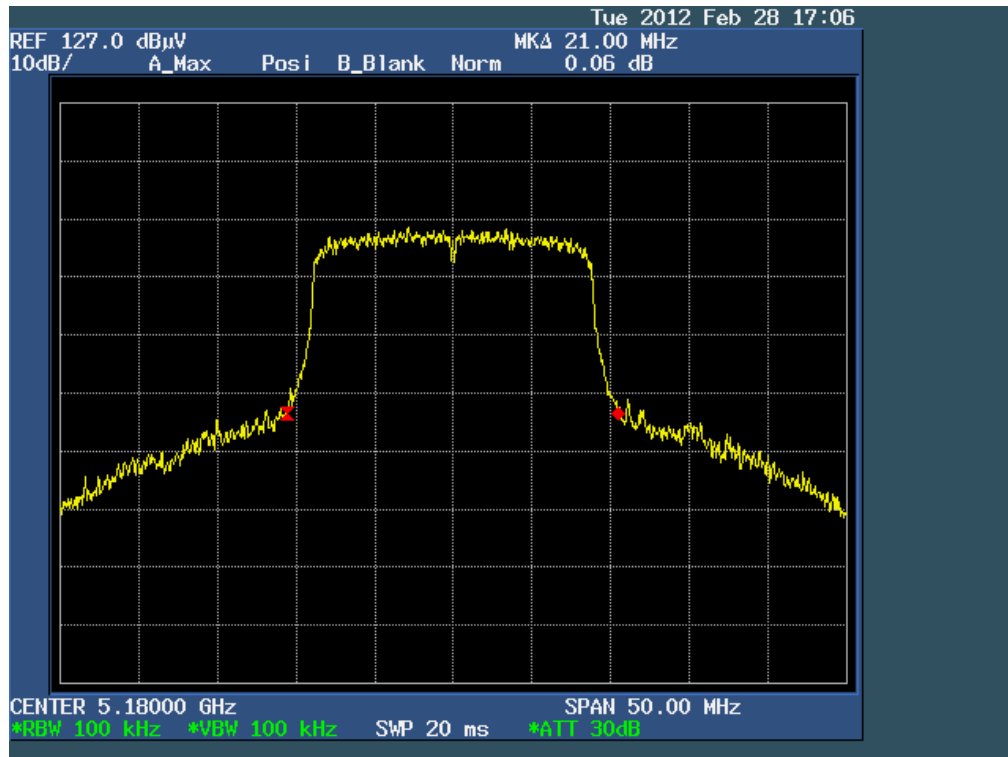


Ant 1 802.11a (5.15GHz-5.25GHz)
The Middle Channel 46: 5230MHz



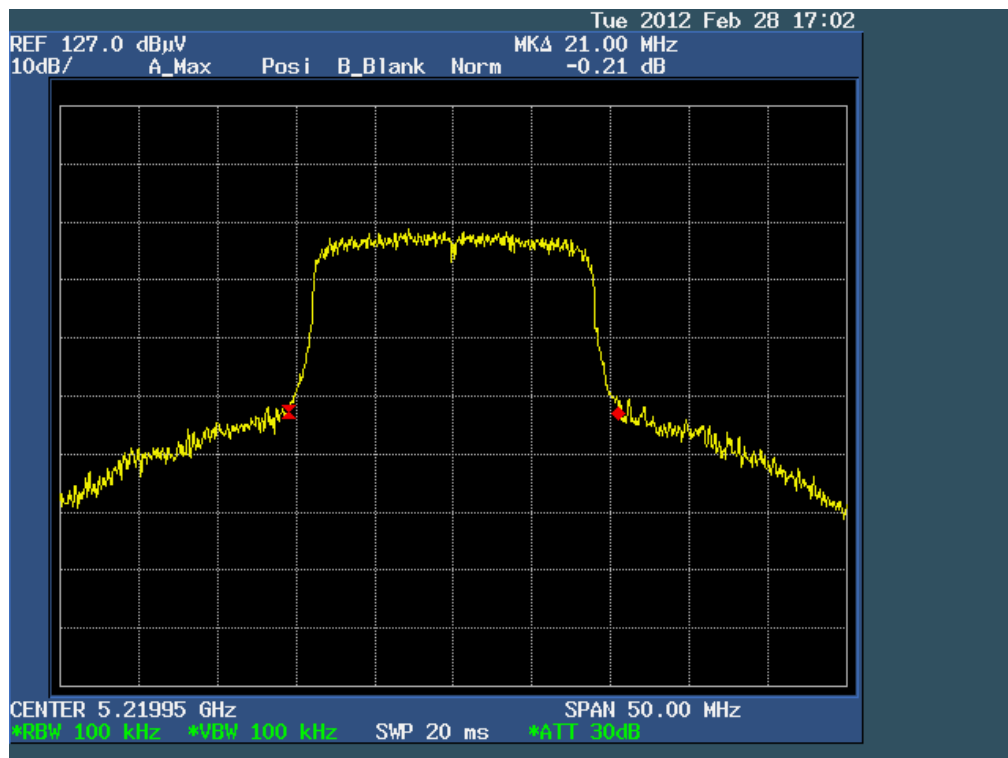
Ant 2 802.11n(20M) (5.15GHz-5.25GHz)

The Lowest Channel 36: 5180MHz



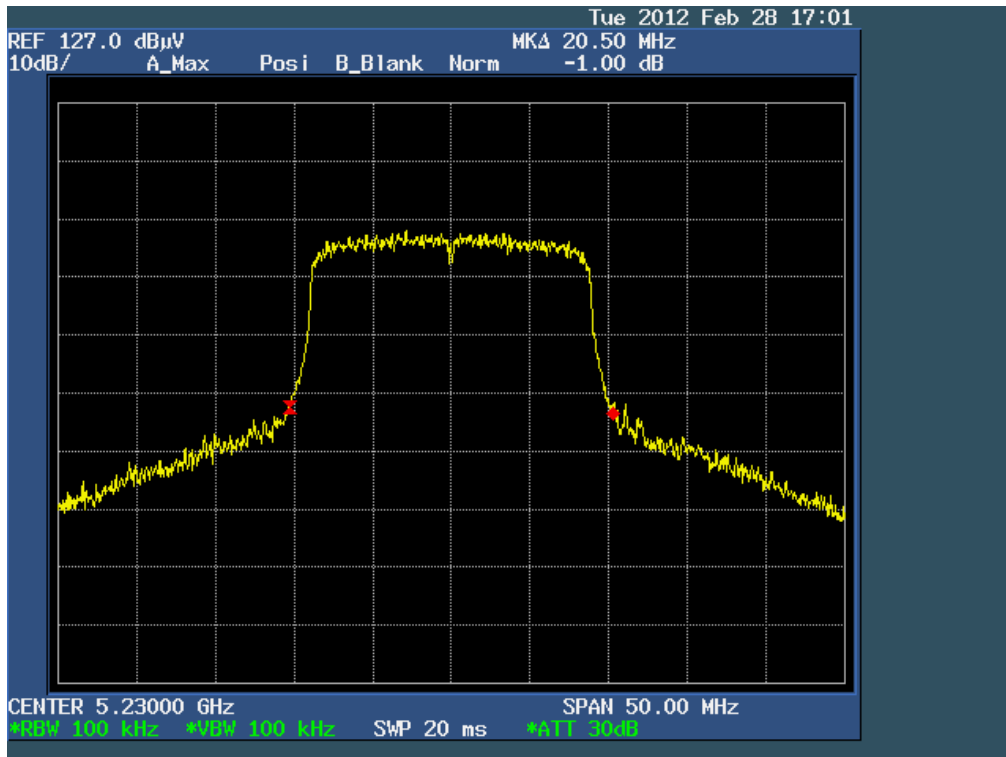
Ant 2 802.11n(20M) (5.15GHz-5.25GHz)

The Middle Channel 44: 5220MHz



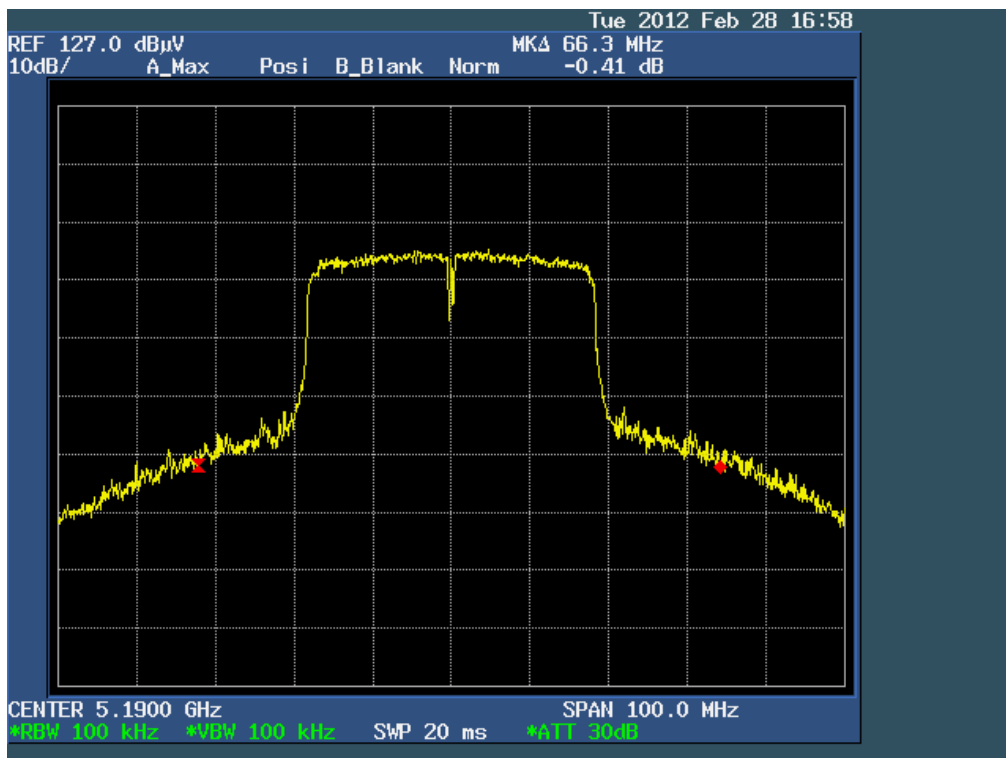
Ant 2 802.11n(20M) (5.15GHz-5.25GHz)

The High Channel 46: 5230MHz



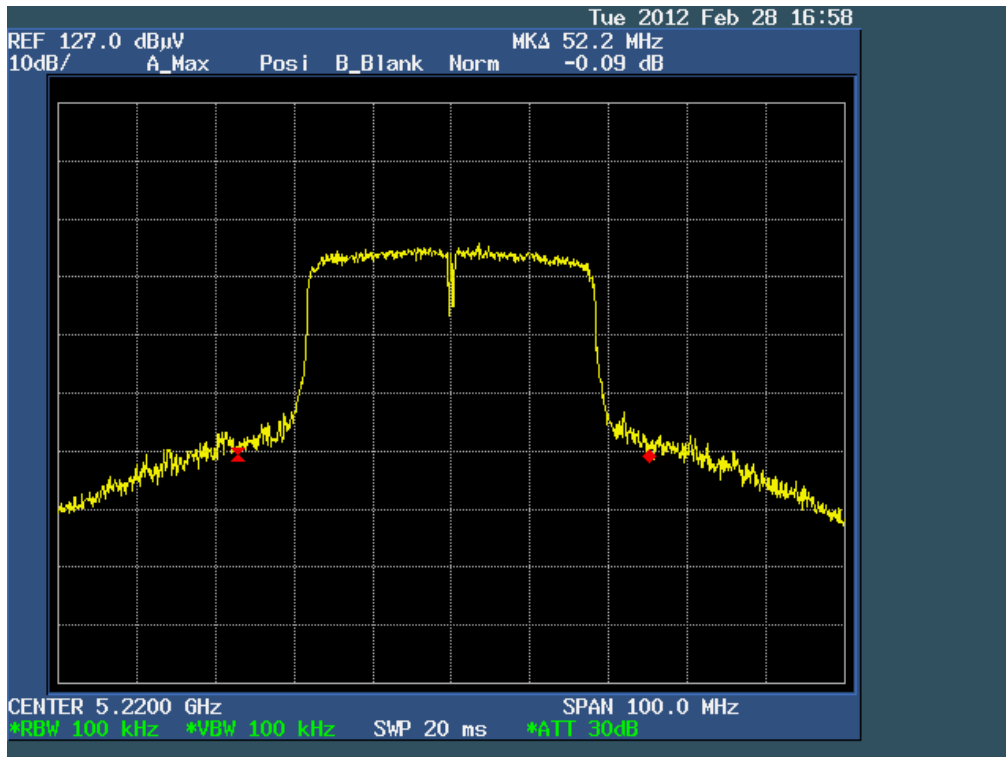
Ant 2 802.11n(40M) (5.15GHz-5.25GHz)

The Lowest Channel 38: 5190MHz



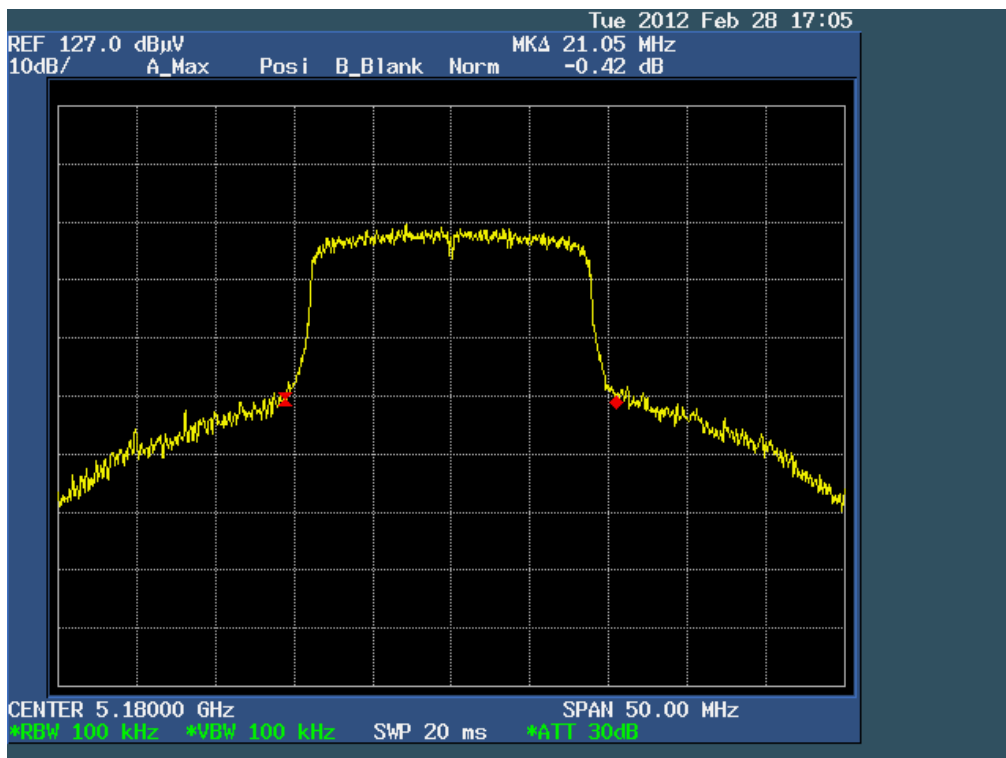
Ant 2 802.11n(40M) (5.15GHz-5.25GHz)

The High Channel 44: 5220MHz

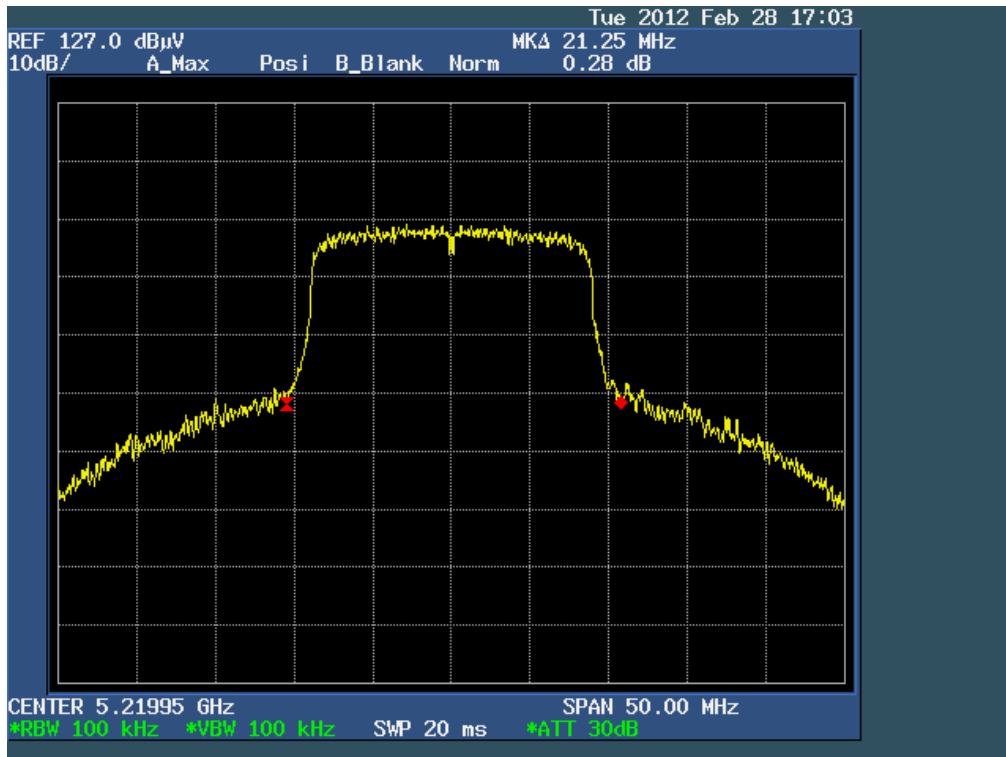


Ant 2 802.11a (5.15GHz-5.25GHz)

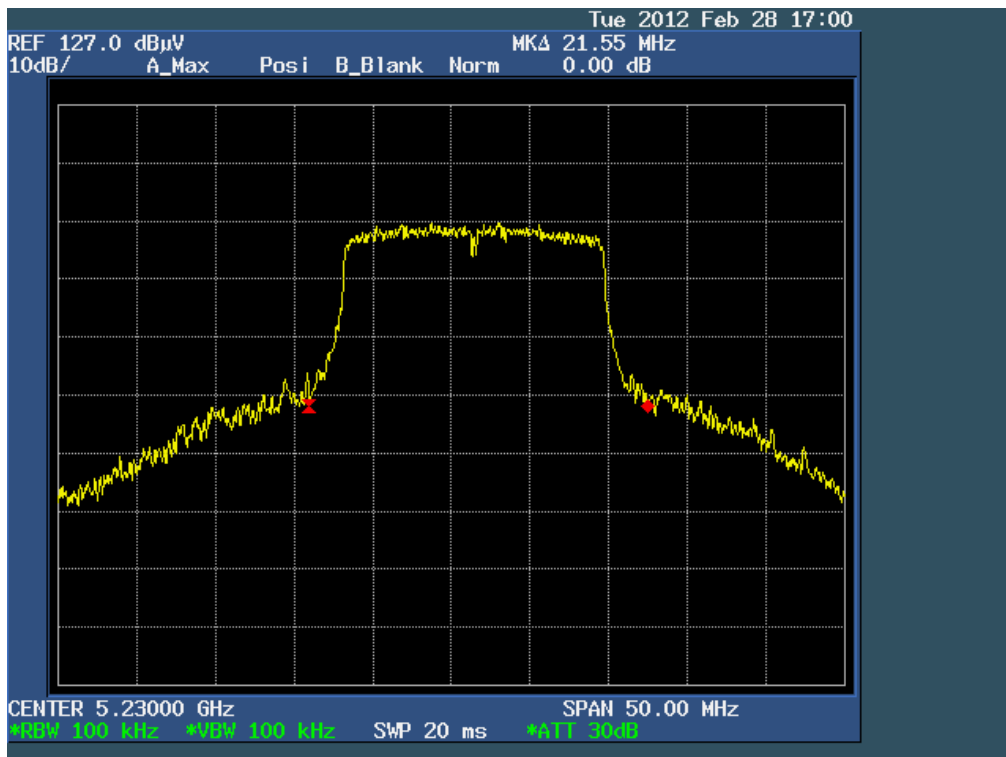
The Lowest Channel 36: 5180MHz



Ant 2 802.11a (5.15GHz-5.25GHz)
The Middle Channel 44: 5220MHz



Ant 2 802.11a (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



6.4 Peak Power Density

6.4.1 Applied procedures / Limit

15.407(a) For UNII Device in the 5.15-5.25 GHz and 5.725-5.825 GHz bands: different band have different peak power Density as follow.

Frequency Band	Limit
5.15 - 5.25 GHz	4dBm/MHz

6.4.2 Test procedure

- a. The Transmitter output of EUT was connected to the spectrum analyzer.
Equipment mode: Spectrum analyzer
Detector function: Peak mode
SPAN: 30MHz or 50MHz
RBW: 1MHz
VBW: 3MHz
Center frequency: fundamental frequency tested.
Sweep time= 30 or 50 sec.
- b. Using Peak Search to read the peak power after Maximum Hold function is completed.

6.4.3 Deviation from standard

No deviation.

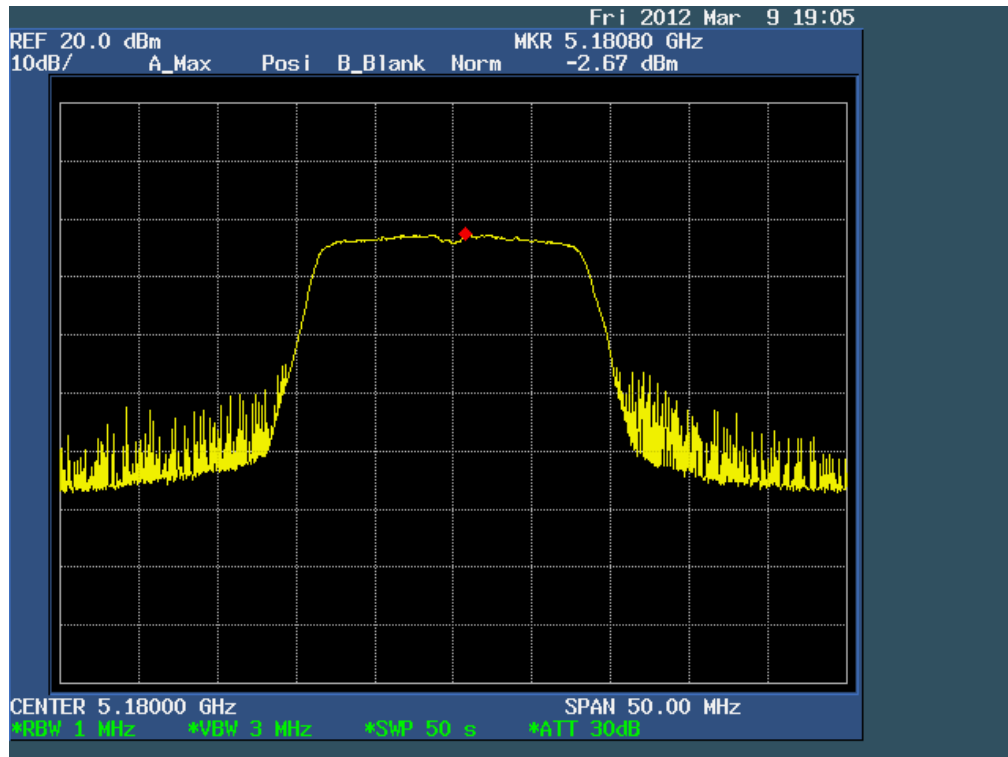
6.4.4 Test results

EUT:	LCD Monitor	Model Name :	DW271HL
Temperature:	22 °C	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX		

Test Mode	Channel	Channel frequency (MHz)	Ant 1 Reading (dBm)	Ant 2 Reading (dBm)	Total power Ant 1+ Ant 2 (dBm)	Limit (dBm)	Result
802.11n(20M) (5.15GHz-5.25GHz) Data rate 7.2Mbps	Low	5180	-2.67	-5.58	$-2.67+(-5.58)=-1.55$	4	Pass
	Middle	5220	-3.10	-5.85	$-3.10+(-5.85)=-1.83$	4	Pass
	Highest	5230	-3.31	-2.71	$-3.31+(-2.71)=-1.91$	4	Pass
802.11n(40M) (5.15GHz-5.25GHz) Data rate 7.2Mbps	Low	5190	-5.59	-3.26	$-5.59+(-3.26)=-2.29$	4	Pass
	Highest	5220	-6.12	-4.15	$-6.12+(-4.15)=-3.26$	4	Pass
802.11a (5.15GHz-5.25GHz) Data rate 6Mbps	Low	5180	-2.60	-5.68	$-2.60+(-5.68)=-1.35$	4	Pass
	Middle	5220	-3.15	-5.70	$-3.15+(-5.70)=-2.35$	4	Pass
	Highest	5230	-3.32	-6.61	$-3.32+(-6.61)=-1.75$	4	Pass

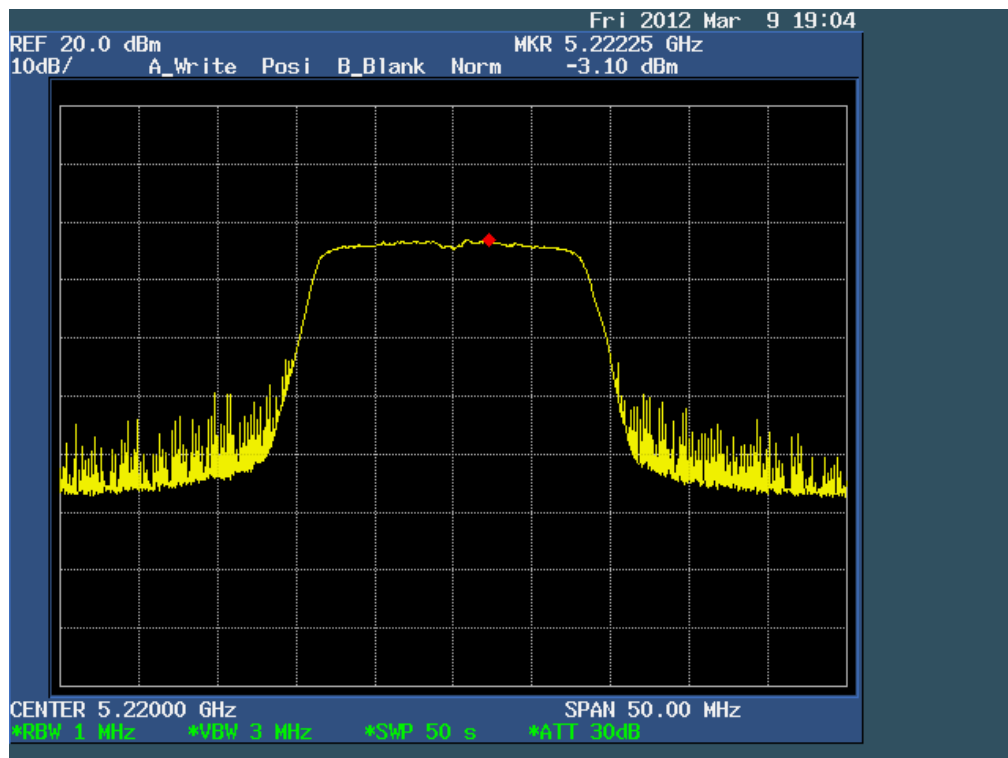
Ant 1 802.11n(20M) (5.15GHz-5.25GHz)

The Lowest Channel 36: 5180MHz

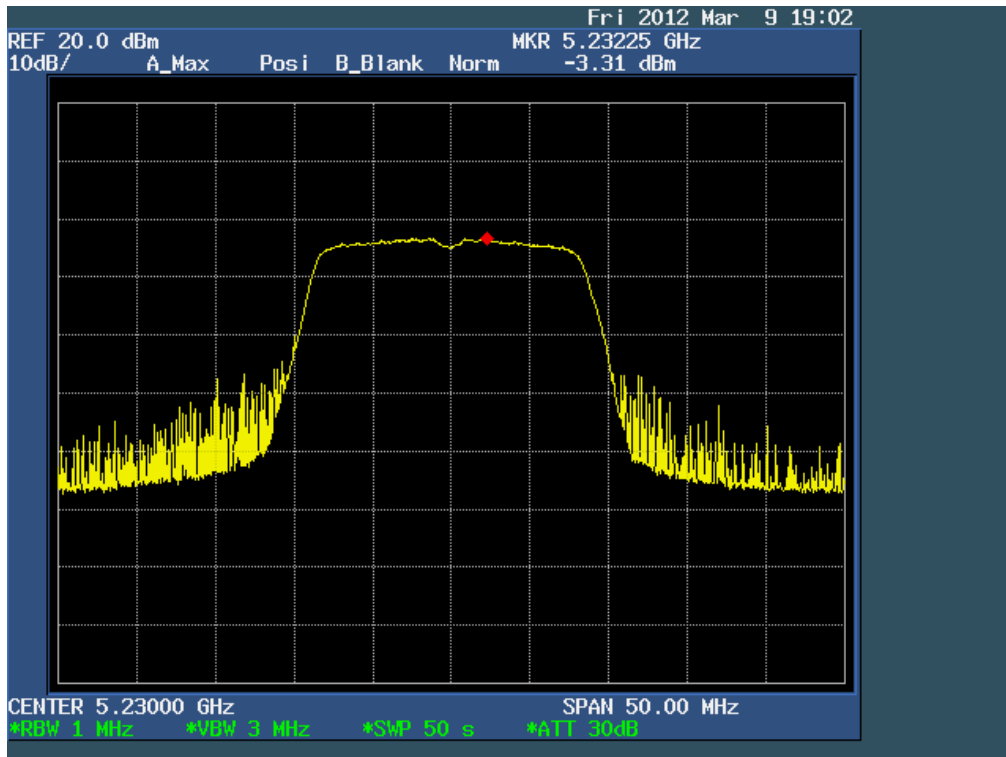


Ant 1 802.11n(20M) (5.15GHz-5.25GHz)

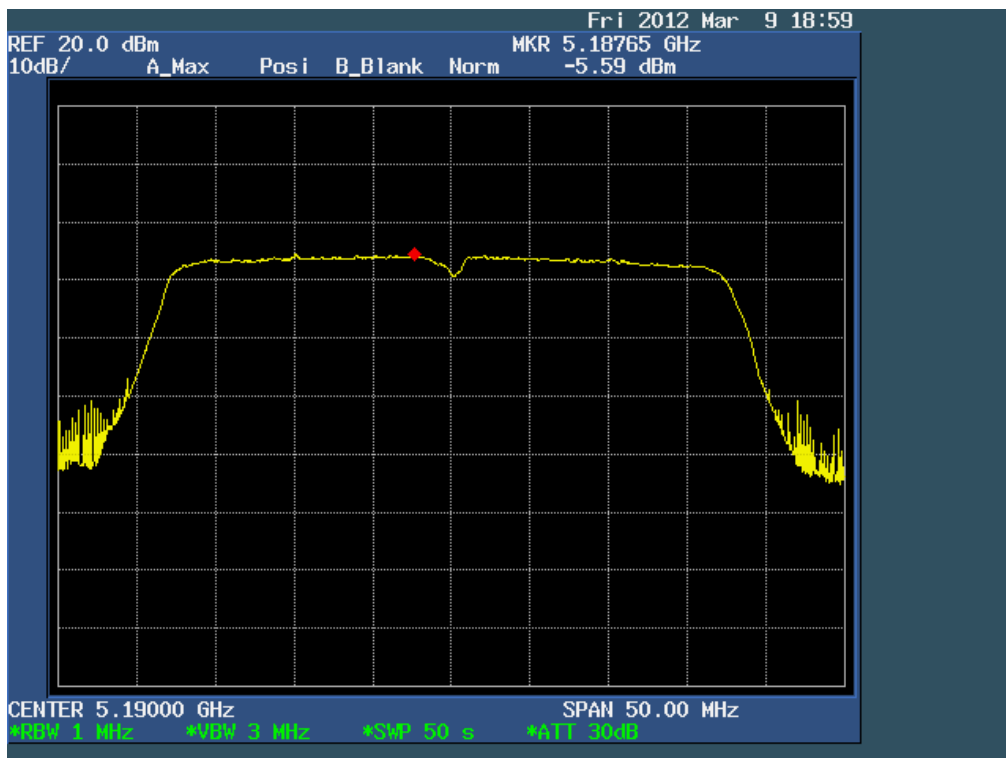
The Middle Channel 44: 5220MHz



Ant 1 802.11n(20M) (5.15GHz-5.25GHz)
The Highest Channel 46: 5230MHz

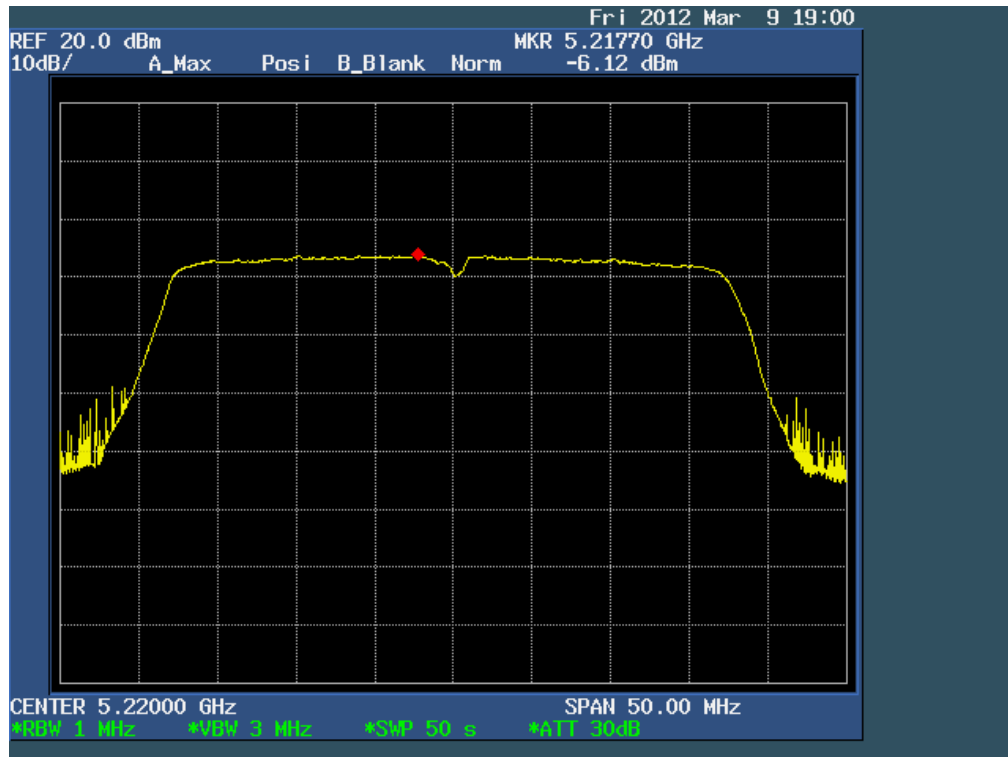


Ant 1 802.11n(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz



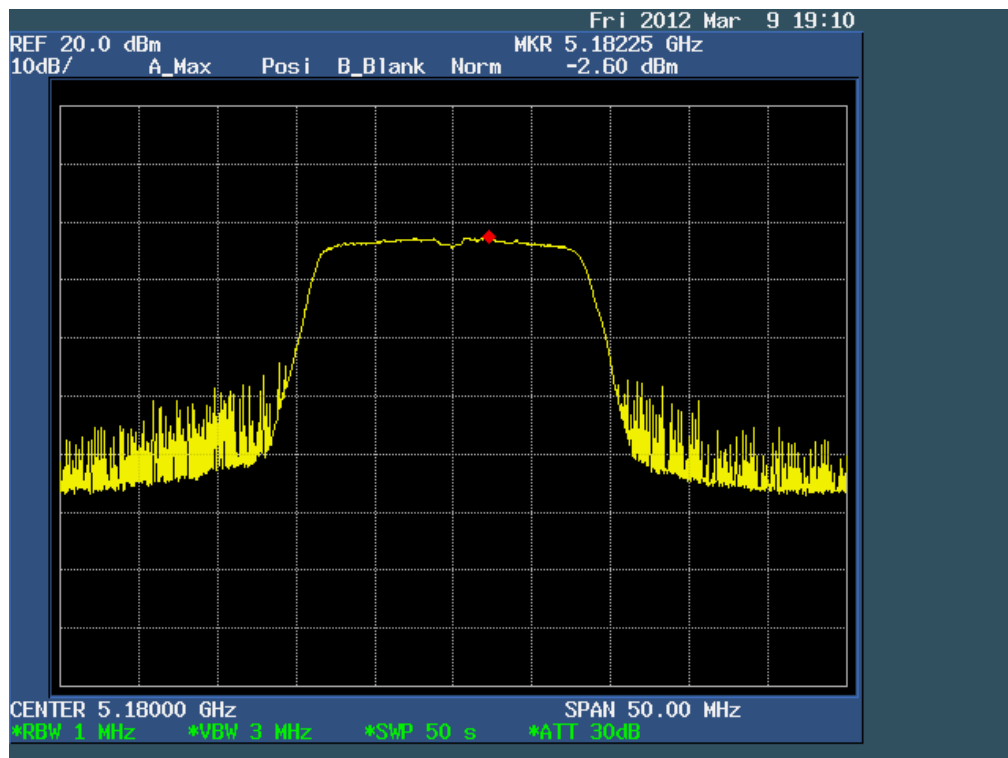
Ant 1 802.11n(40M) (5.15GHz-5.25GHz)

The Highest Channel 44: 5220MHz

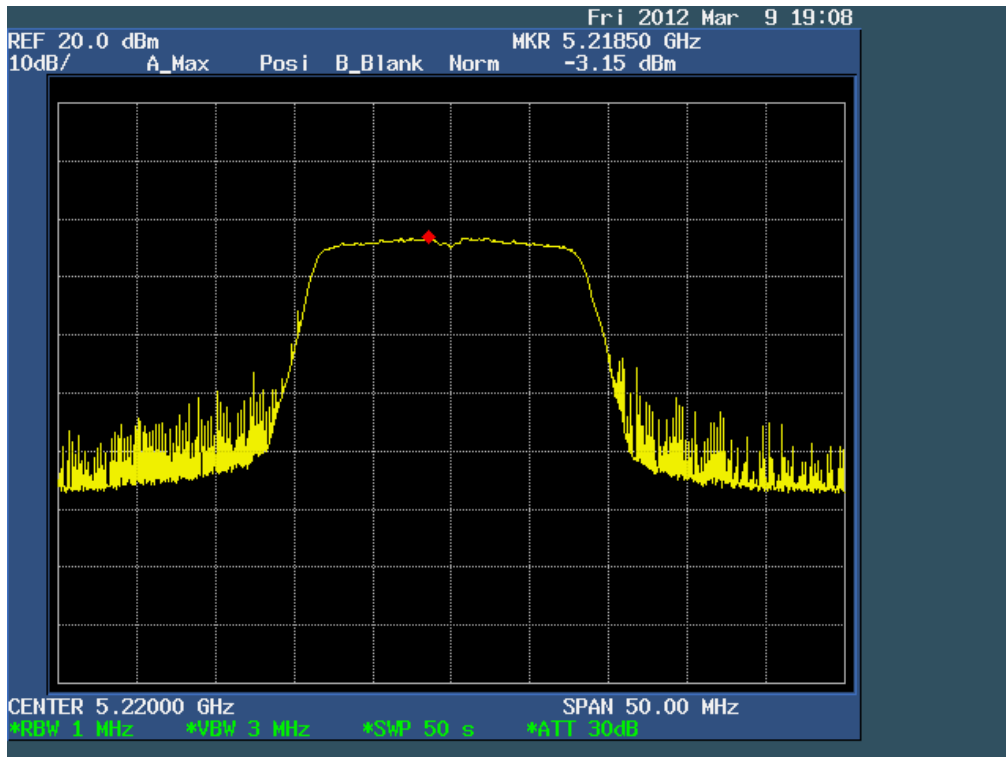


Ant 1 802.11a (5.15GHz-5.25GHz)

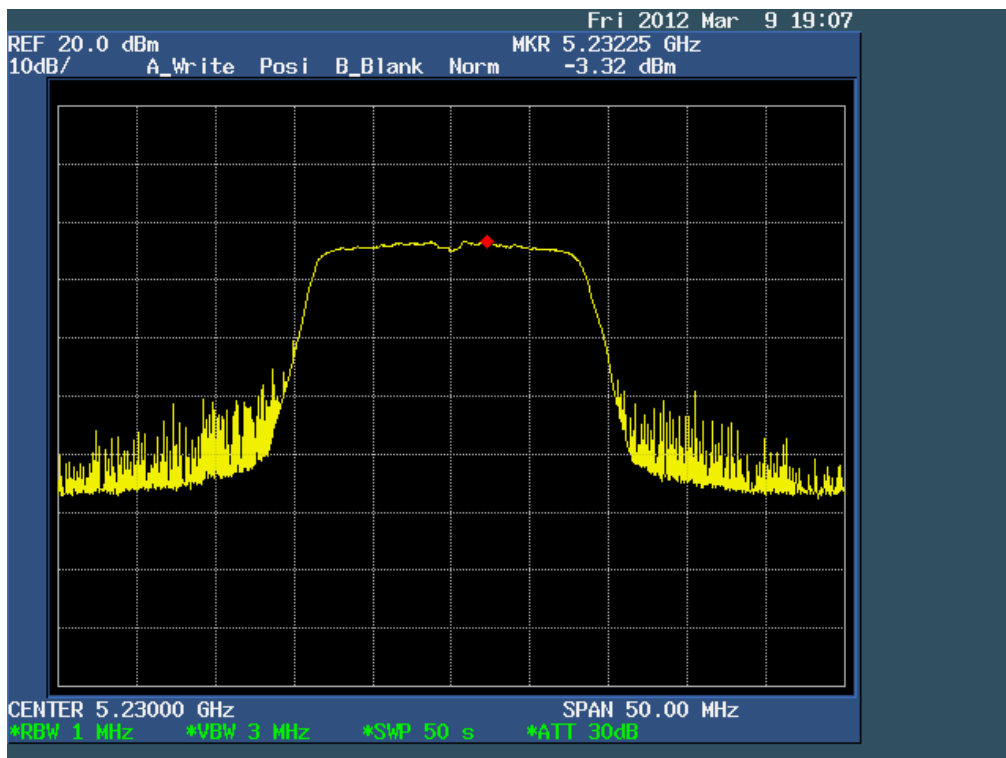
The Lowest Channel 36: 5180MHz



Ant 1 802.11a (5.15GHz-5.25GHz)
The Middle Channel 44: 5220MHz

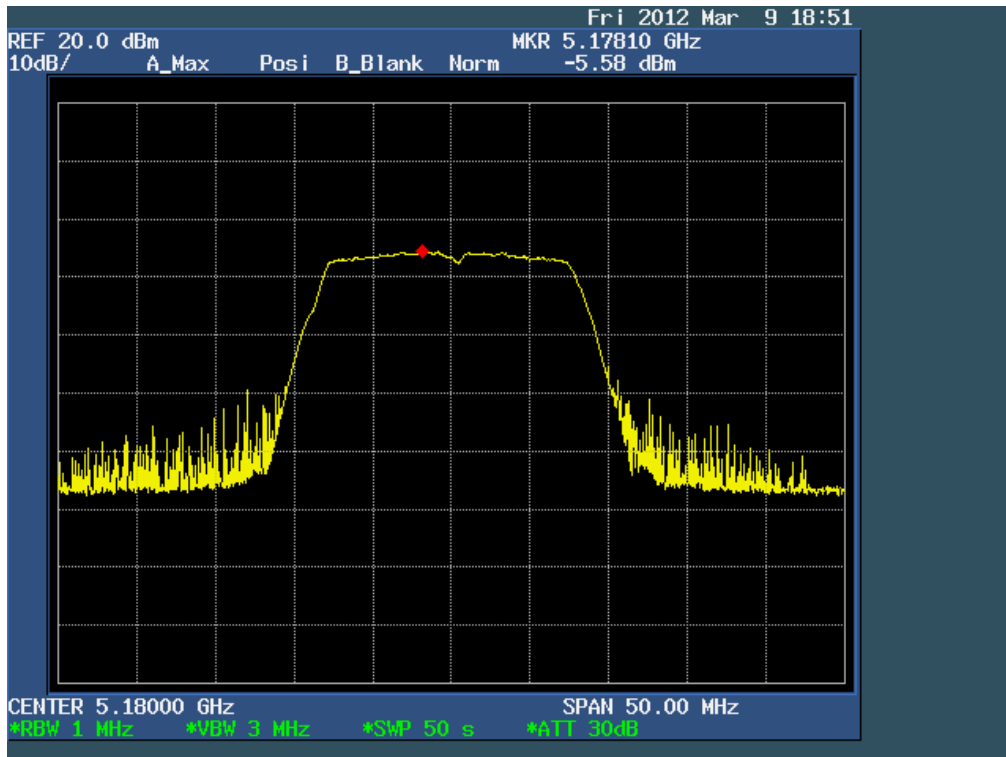


Ant 1 802.11a (5.15GHz-5.25GHz)
The Highest Channel 46: 5230MHz



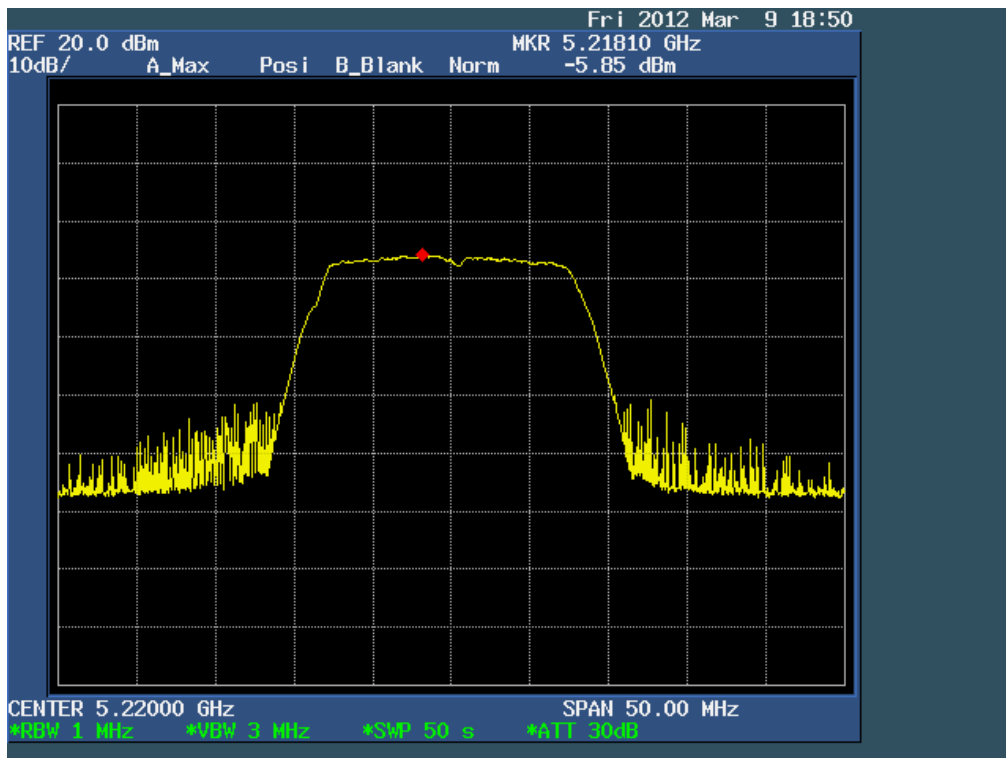
Ant 2 802.11n(20M) (5.15GHz-5.25GHz)

The Lowest Channel 36: 5180MHz

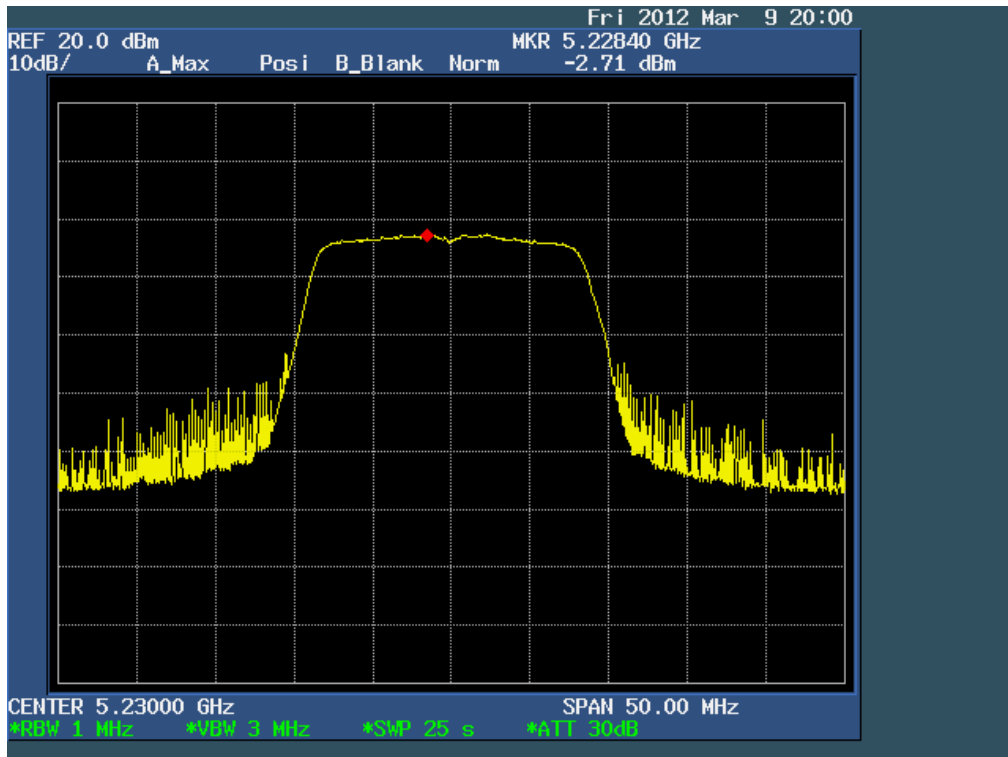


Ant 2 802.11n(20M) (5.15GHz-5.25GHz)

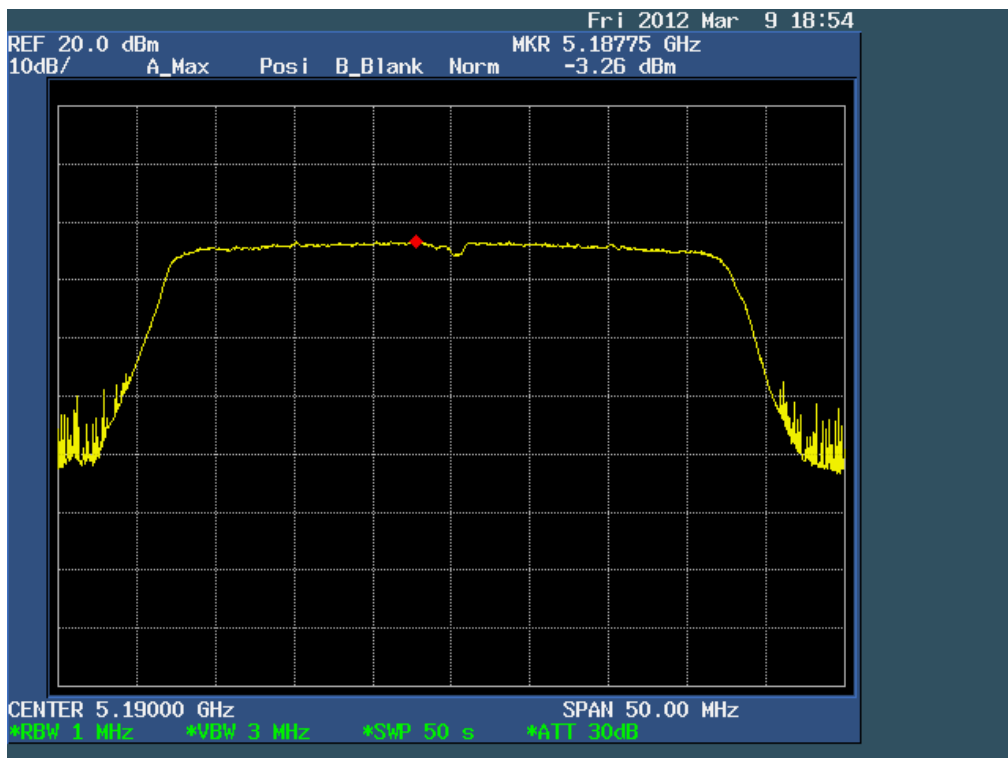
The Middle Channel 44: 5220MHz



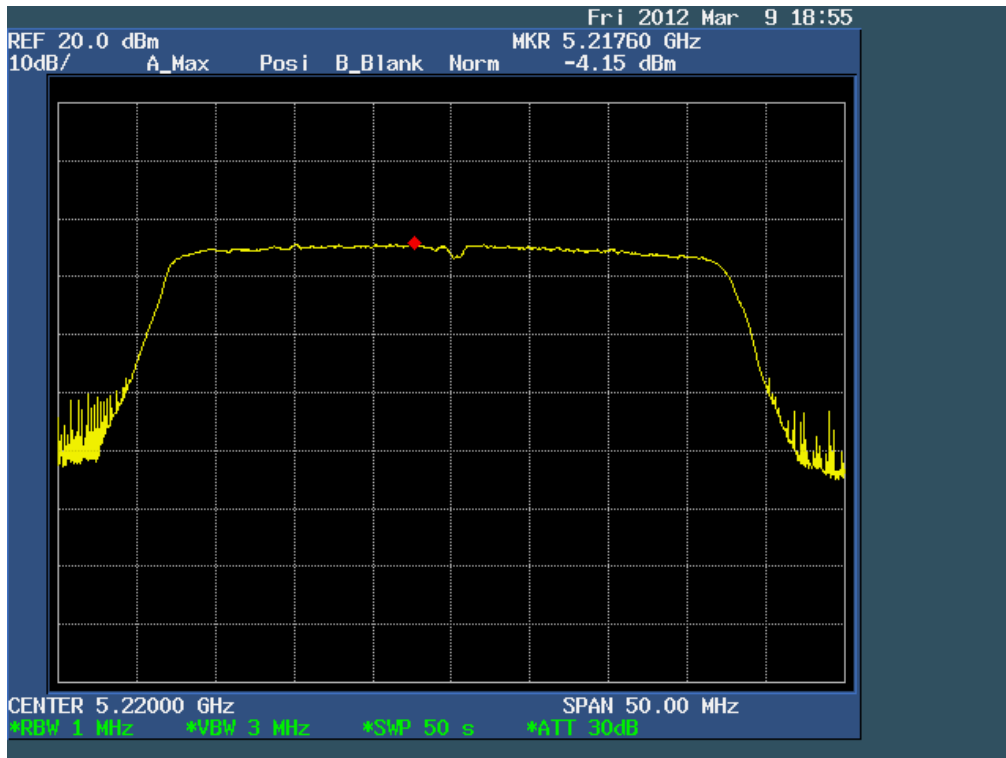
Ant 2 802.11n(20M) (5.15GHz-5.25GHz)
The Highest Channel 46: 5230MHz



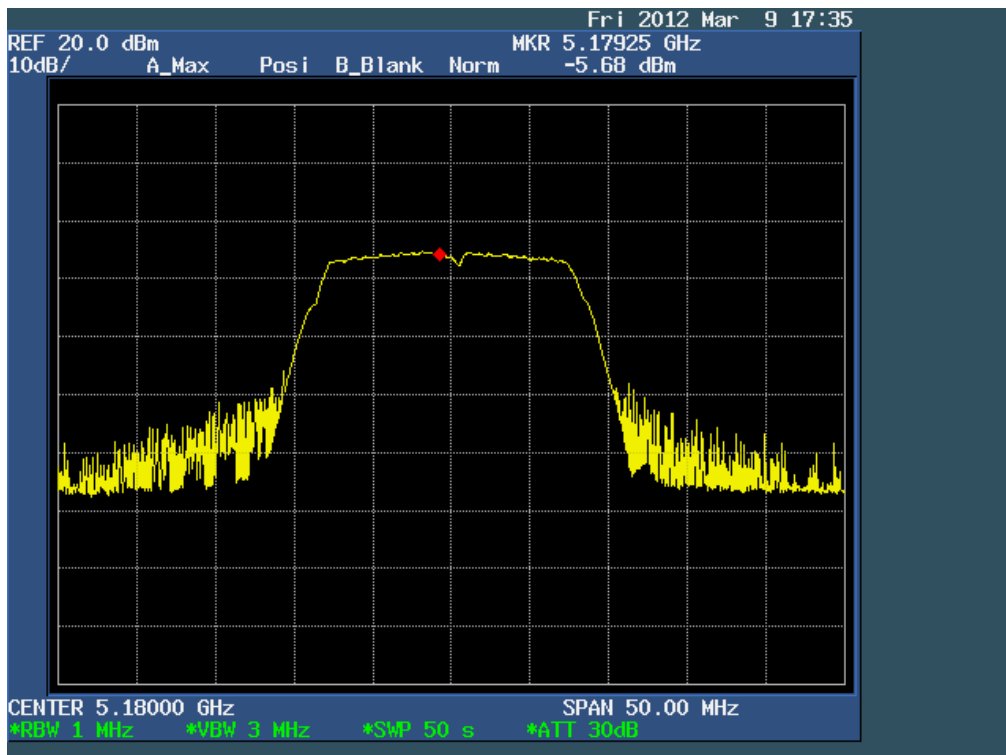
Ant 2 802.11n(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz



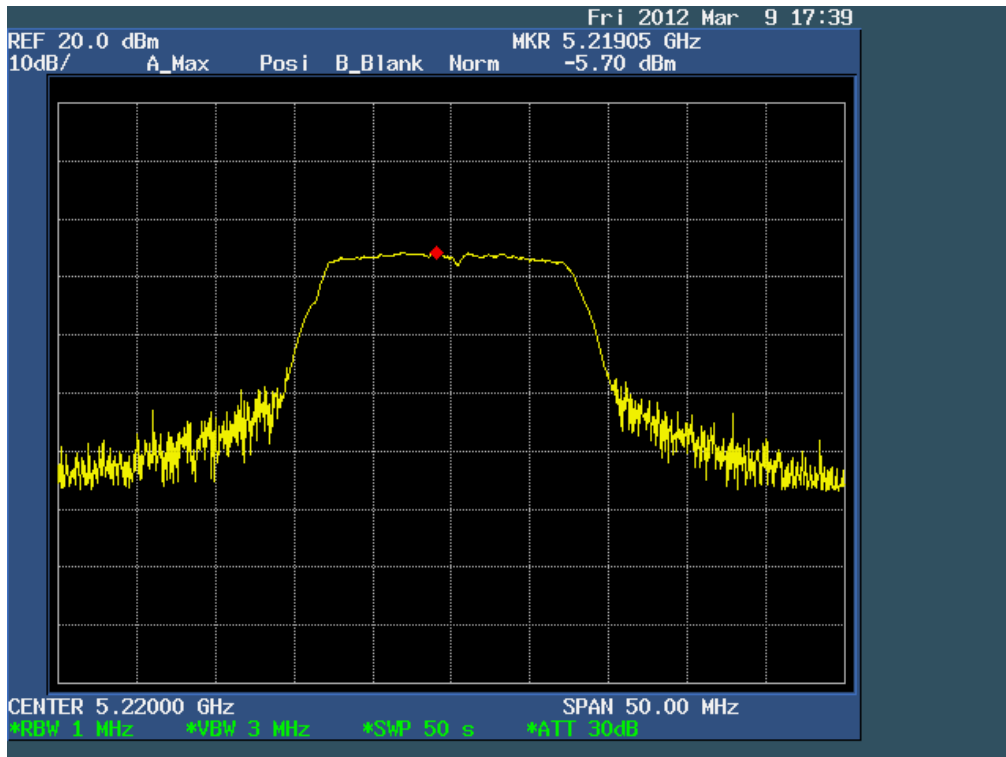
Ant 2 802.11n(40M) (5.15GHz-5.25GHz)
The Highest Channel 44: 5220MHz



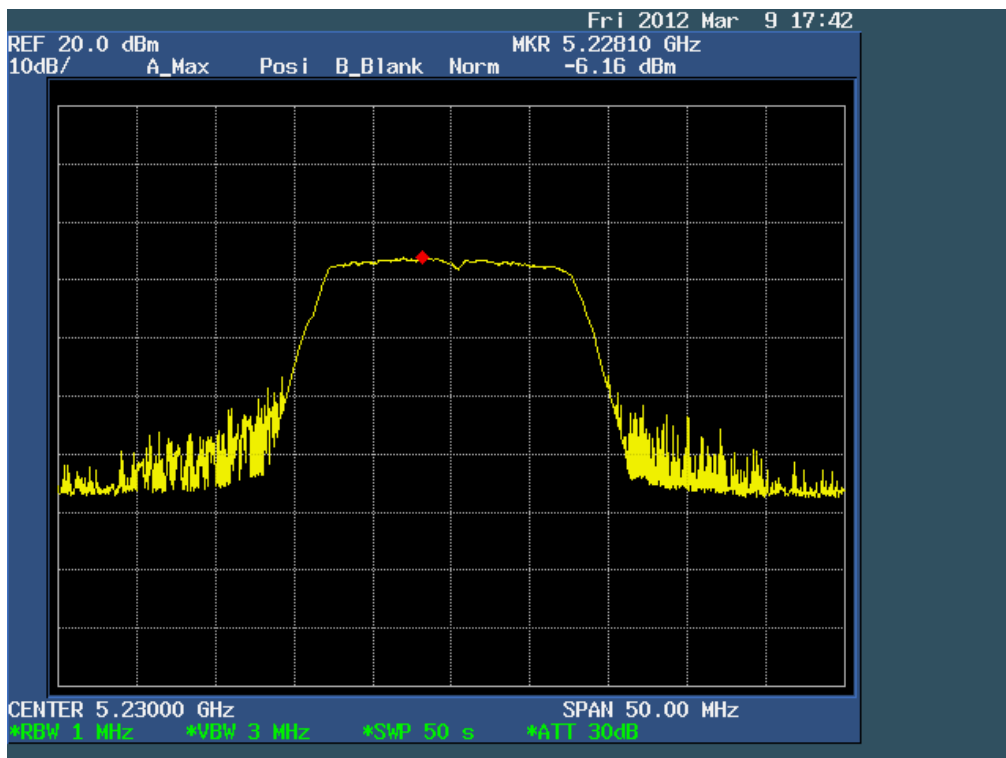
Ant 2 802.11a (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz



Ant 2 802.11a (5.15GHz-5.25GHz)
The Middle Channel 44: 5220MHz



Ant 2 802.11a (5.15GHz-5.25GHz)
The Highest Channel 46: 5230MHz



6.5 Maximum Peak Output Power

6.5.1 Applied procedures / Limit

15.407(a) For UNII Device in the 5.15-5.25 GHz and 5.725-5.825 GHz bands: different band have different peak power as follow.

Frequency Band	Limit
5.15 - 5.25 GHz	50mW (17dBm)
5.725 - 5.825 GHz	1000mW (30dBm)

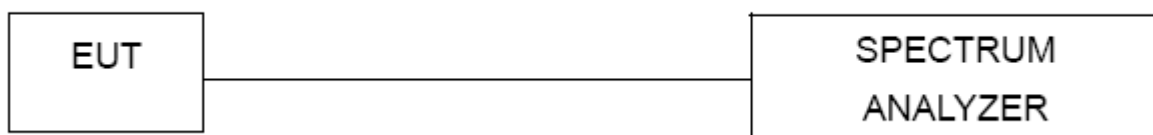
6.5.2 Test procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 1MHz, VBW= 3MHz, Sweep time = Auto, Span=40or80MHz, Channel power function=RMS.

6.5.3 Deviation from standard

No deviation.

6.5.4 Test setup

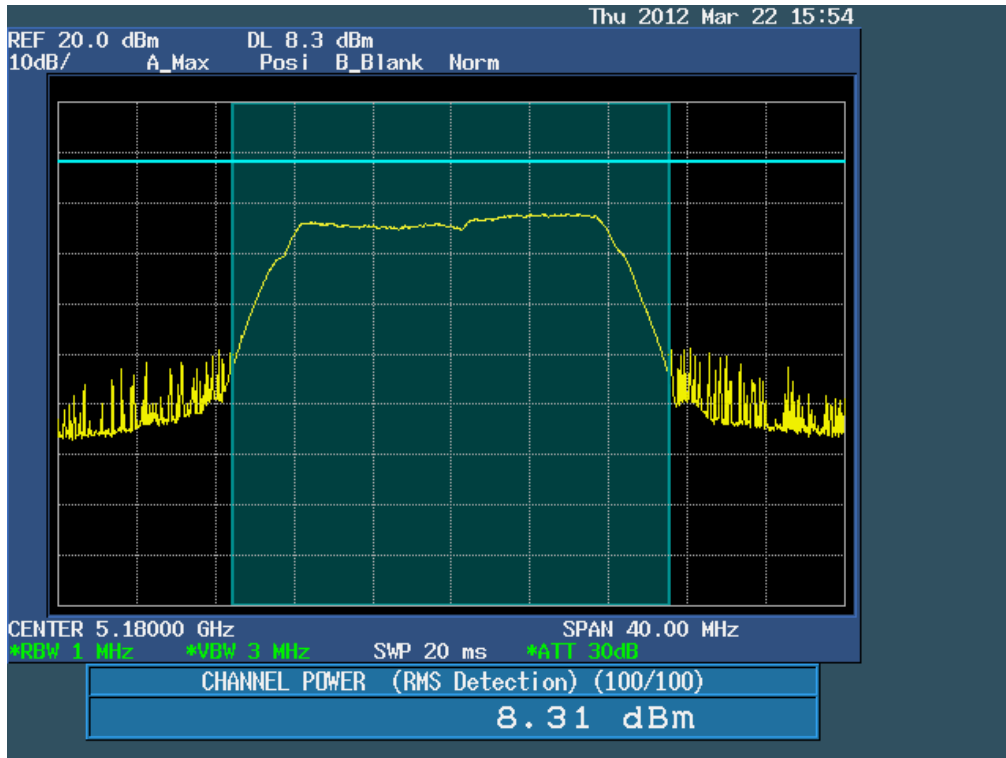


6.5.5 Test results

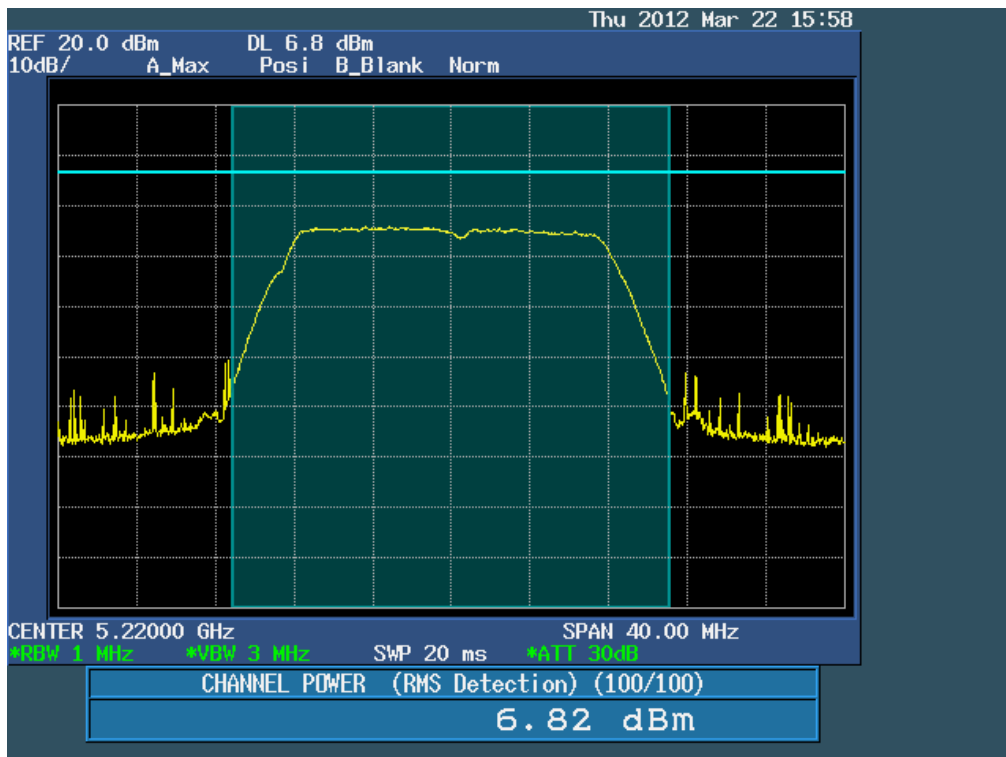
EUT:	LCD Monitor	Model Name :	DW271HL
Temperature:	22 °C	Relative Humidity:	60%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX		
Note: All the data rates have be tested and the worst-case as the table below.			

Test Mode	Frequency	Ant 1 Reading Power (dBm)	Ant 2 Reading Power (dBm))	Total power Ant 1+ Ant 2 (dBm)	Limit (dBm)	Result
802.11n(20M) (5.15GHz-5.25GHz) Data rate 7.2Mbps	5180 MHz	8.31	9.00	8.31+9.00=10.23	17	Pass
	5220 MHz	6.82	7.64	6.82+7.64=8.72	17	Pass
	5230 MHz	8.08	7.61	8.08+7.61=10.21	17	Pass
802.11n(40M) (5.15GHz-5.25GHz) Data rate 7.2Mbps	5190 MHz	6.59	6.69	6.59+6.69=7.80	17	Pass
	5220 MHz	5.96	6.25	5.96+6.25=7.57	17	Pass
802.11a (5.15GHz-5.25GHz) Data rate 6Mbps	5180 MHz	5.08	5.71	5.08+5.71=7.13	17	Pass
	5220 MHz	6.74	6.05	6.74+6.05=8.25	17	Pass
	5230 MHz	4.66	5.40	4.66+5.40=6.46	17	Pass

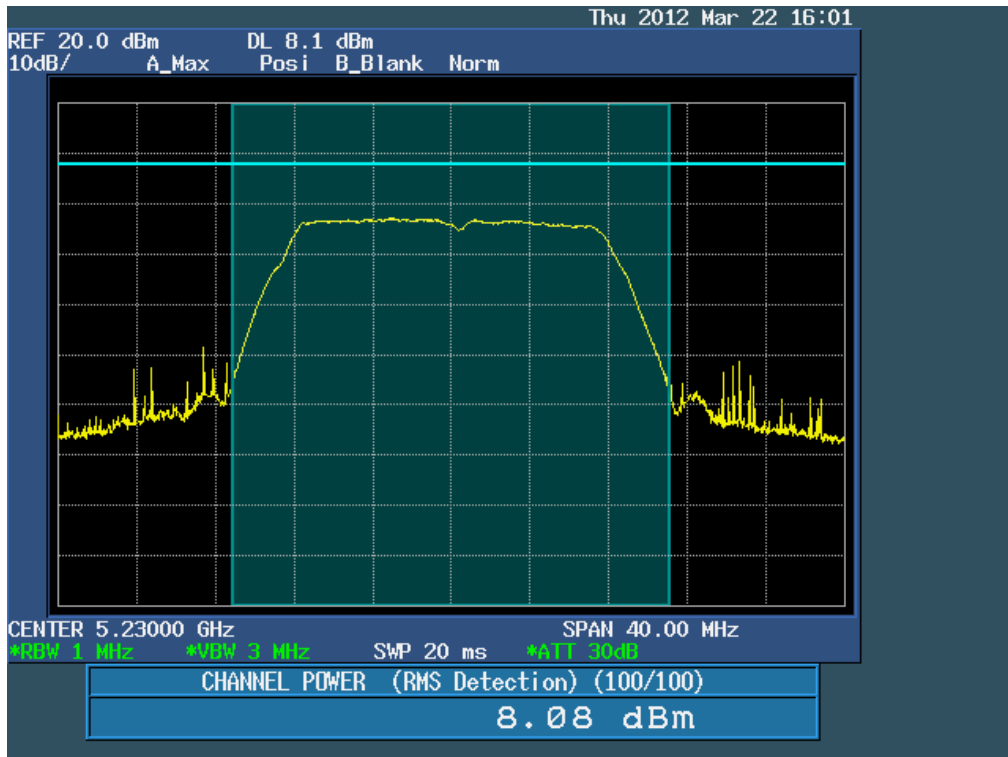
Ant 1 802.11n(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz



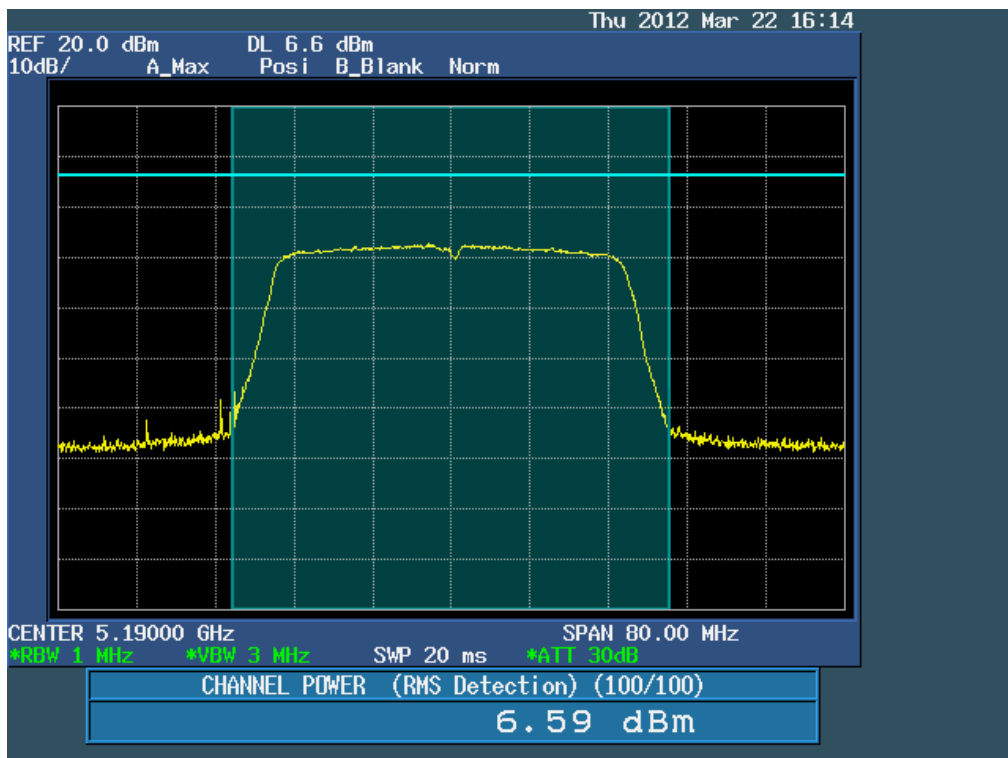
Ant 1 802.11n(20M) (5.15GHz-5.25GHz)
The Middle Channel 44: 5220MHz



Ant 1 802.11n(20M) (5.15GHz-5.25GHz)
The Highest Channel 46: 5230MHz

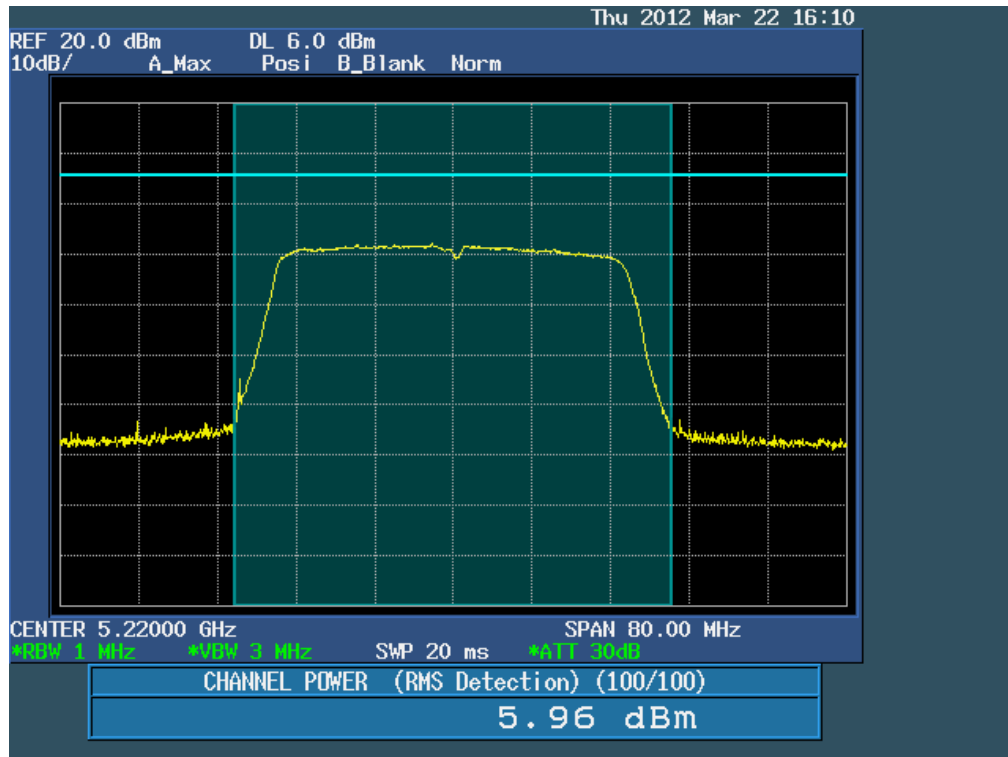


Ant 1 802.11n(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz



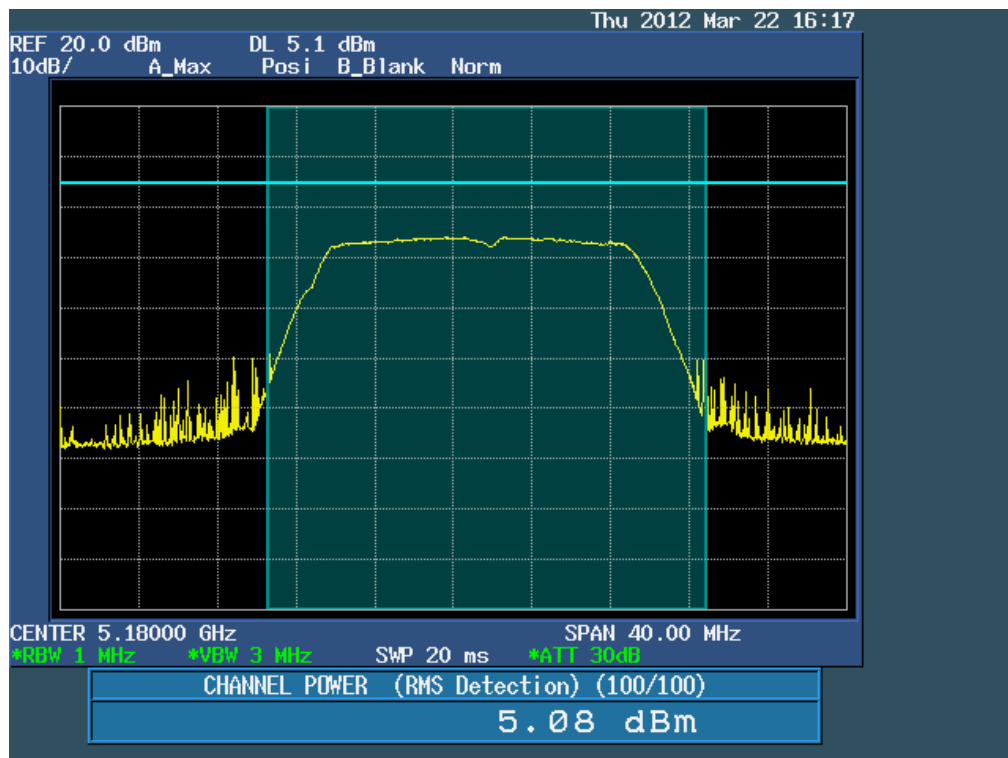
Ant 1 802.11n(40M) (5.15GHz-5.25GHz)

The Highest Channel 44: 5220MHz

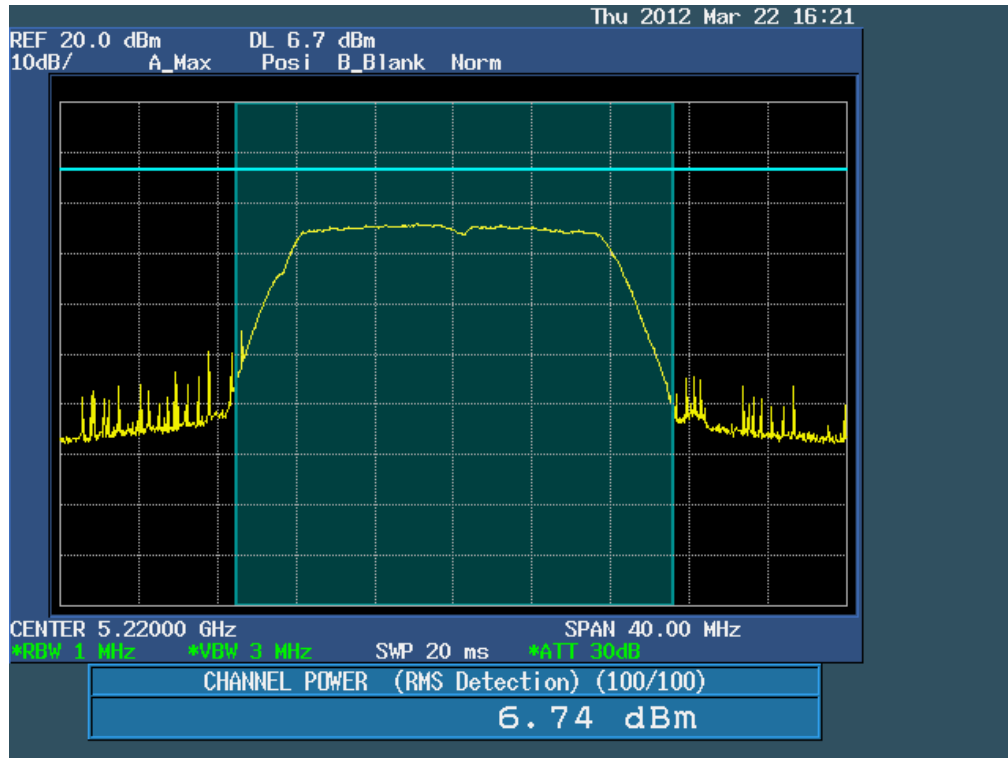


Ant 1 802.11a (5.15GHz-5.25GHz)

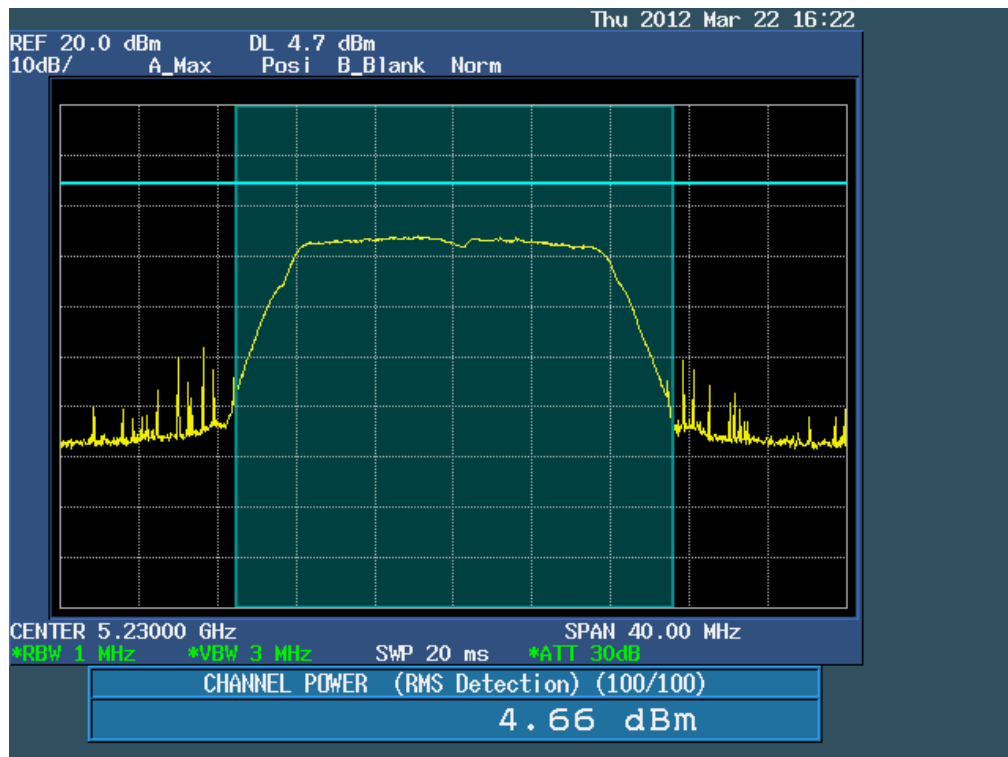
The Lowest Channel 36: 5180MHz



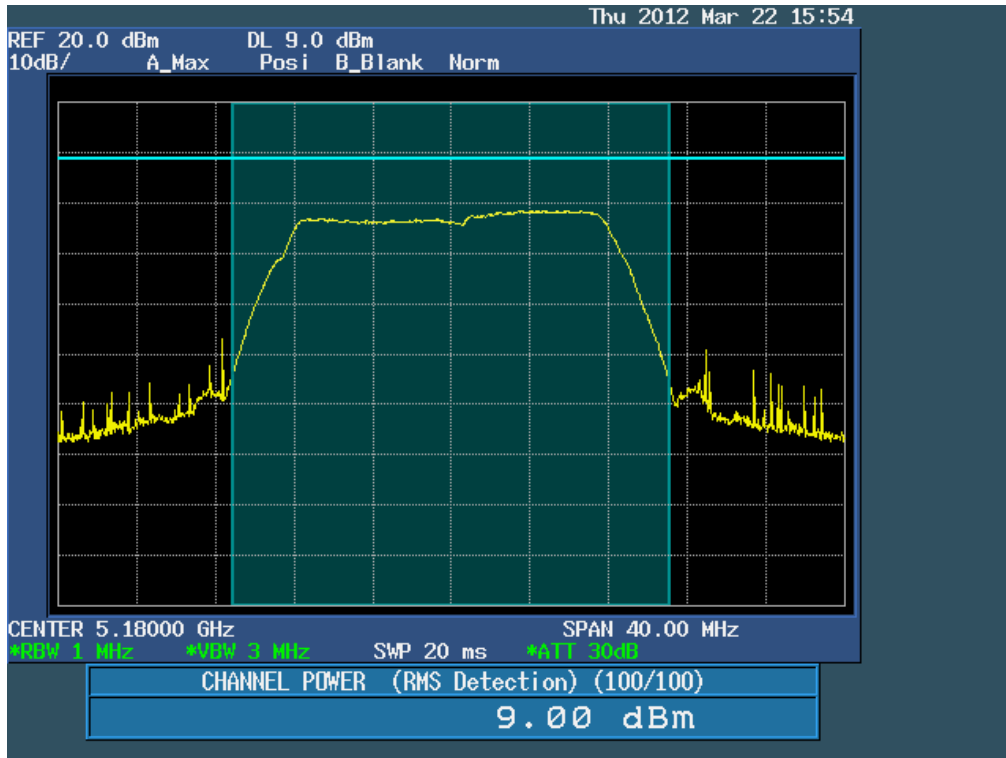
Ant 1 802.11a (5.15GHz-5.25GHz)
The Middle Channel 44: 5220MHz



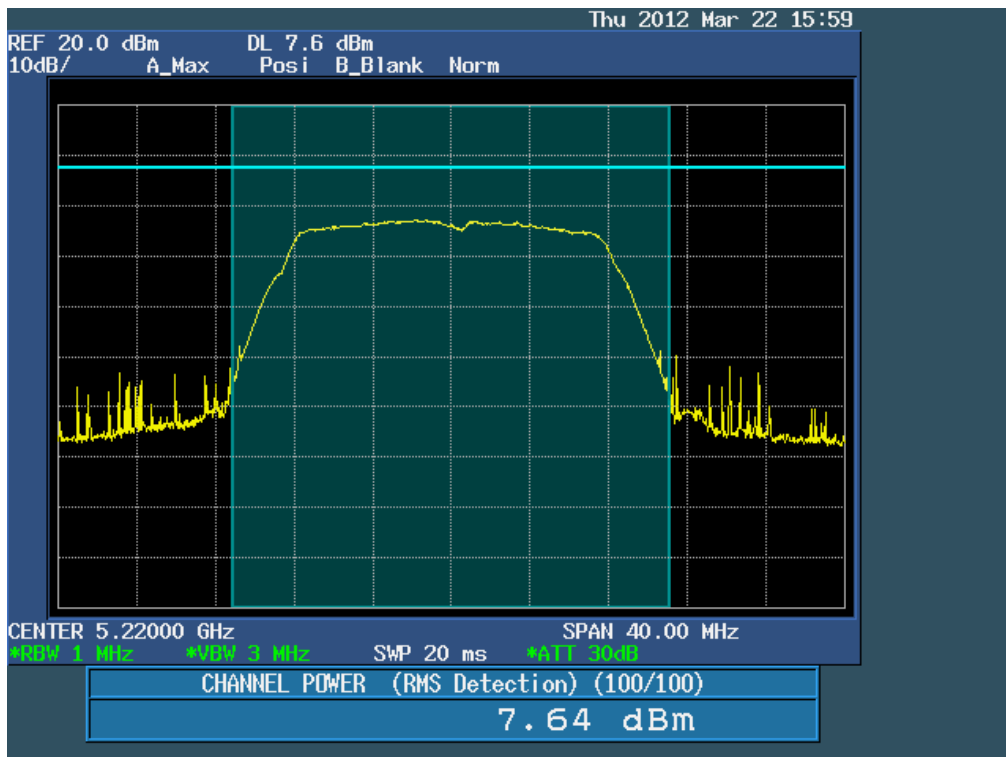
Ant 1 802.11a (5.15GHz-5.25GHz)
The Highest Channel 46: 5230MHz



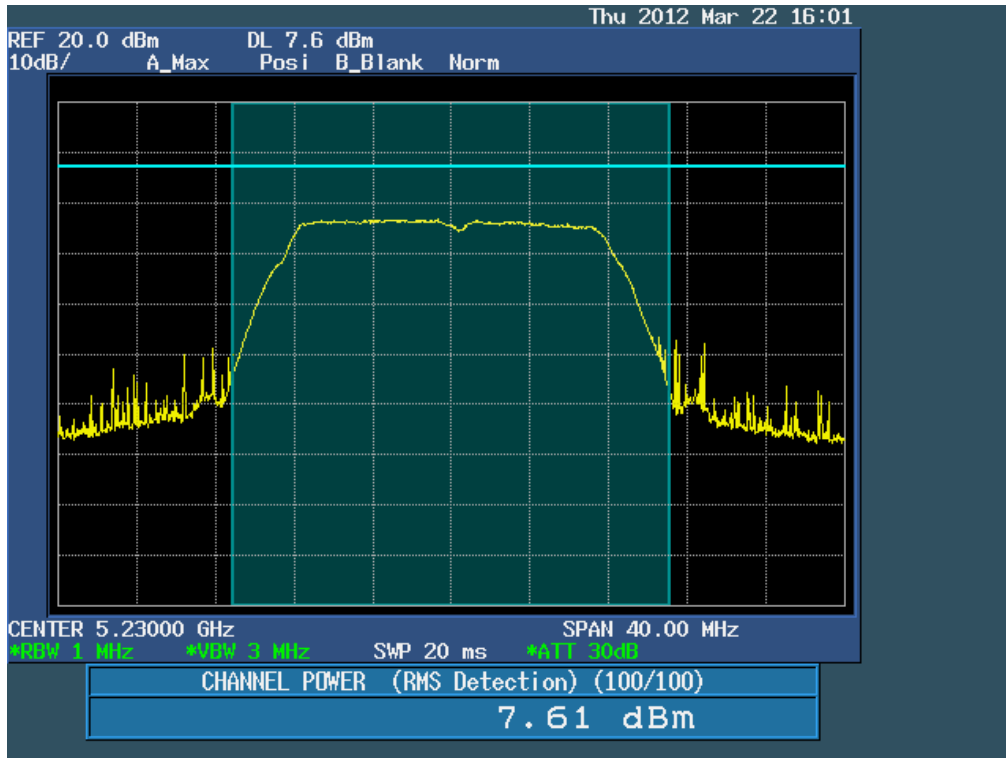
Ant 2 802.11n(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz



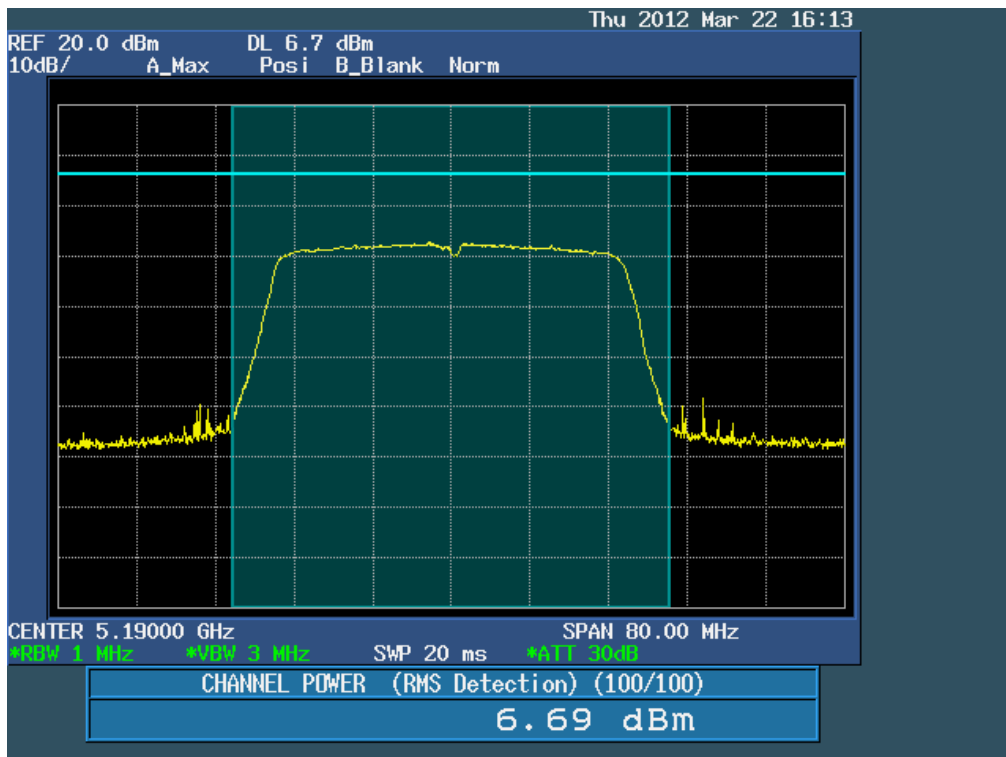
Ant 2 802.11n(20M) (5.15GHz-5.25GHz)
The Middle Channel 44: 5220MHz



Ant 2 802.11n(20M) (5.15GHz-5.25GHz)
The Highest Channel 46: 5230MHz

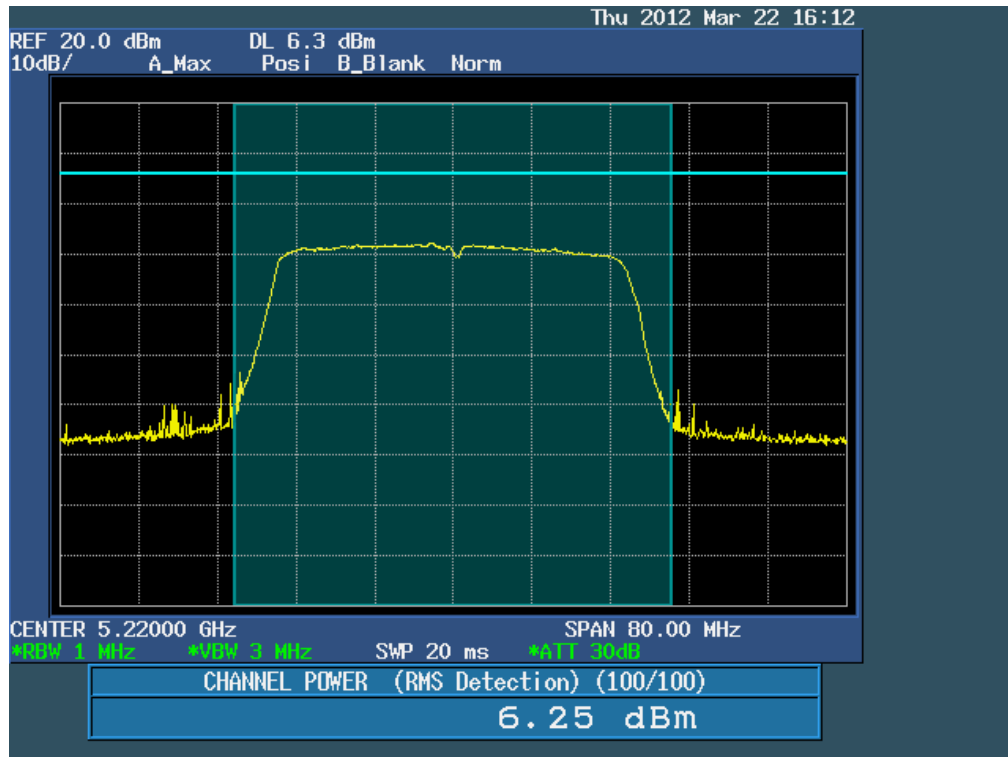


Ant 2 802.11n(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz



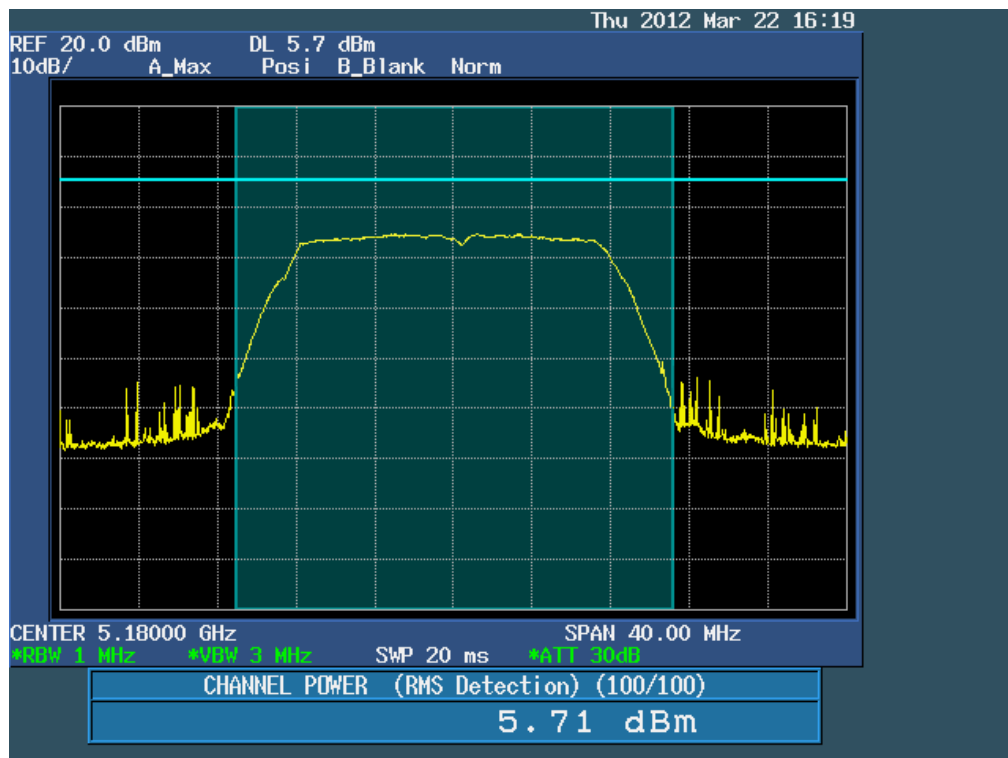
Ant 2 802.11n(40M) (5.15GHz-5.25GHz)

The Highest Channel 44: 5220MHz

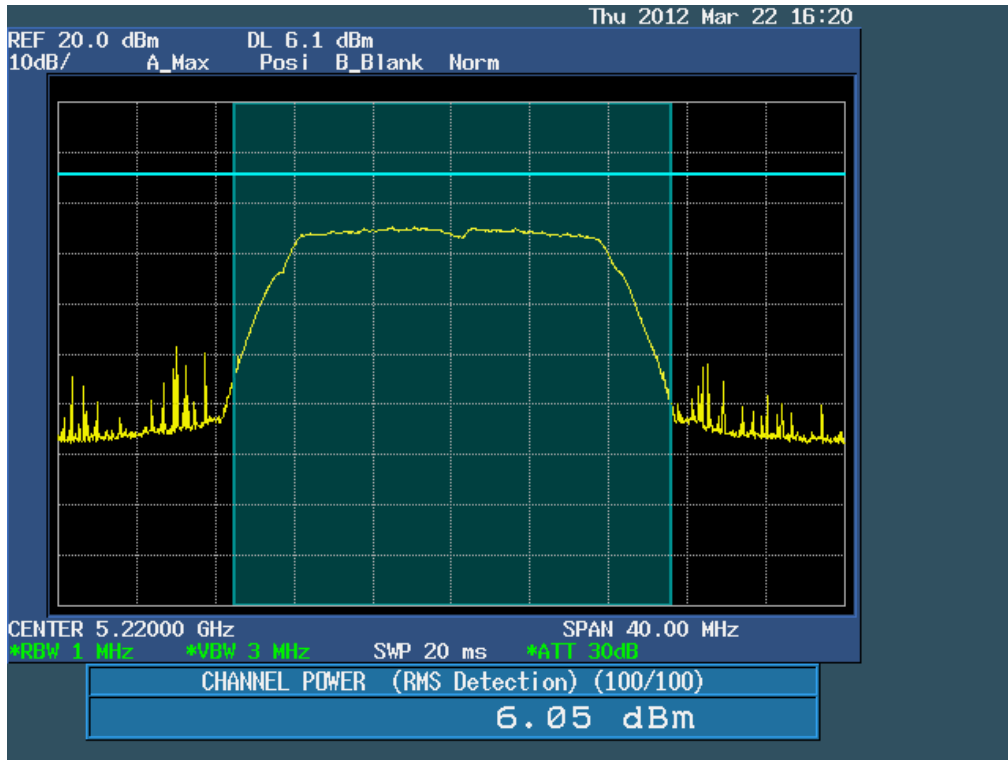


Ant 2 802.11a (5.15GHz-5.25GHz)

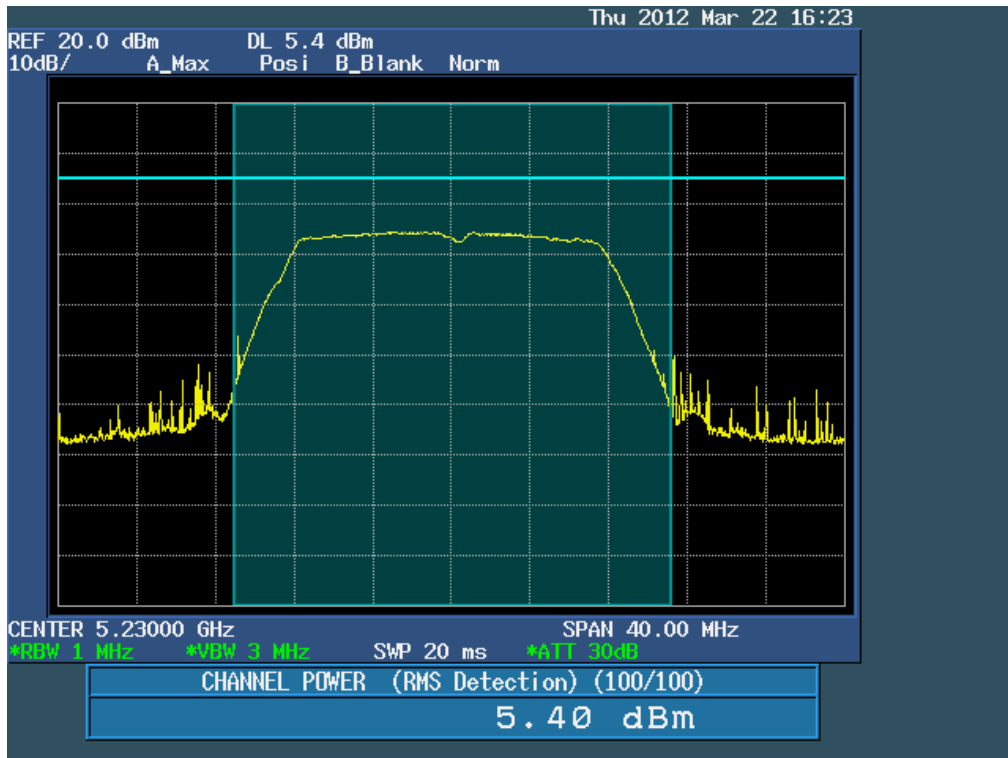
The Lowest Channel 36: 5180MHz



Ant 2 802.11a (5.15GHz-5.25GHz)
The Middle Channel 44: 5220MHz



Ant 2 802.11a (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



6.6 Band edge

6.6.1 Applied procedures / Limit

15.407 (b) In any 1 MHz bandwidth outside the frequency band in which the spread spectrum, the radio frequency power that is produced by the intentional radiator shall be below -27 dBm.

6.6.2 Test procedure

- a. The Transmitter output of EUT was connected to the spectrum analyzer.
 Equipment mode: Spectrum analyzer
 Detector function: Peak mode
 SPAN: 100MHz
 RBW: 1 MHz
 VBW: 1 MHz
 Sweep time= Auto.
- b. Using Peak Search to read the peak power of Carrier frequencies after Maximum Hold function is completed.
- c. Find the next peak frequency outside the operation frequency band.

6.6.3 Deviation from standard

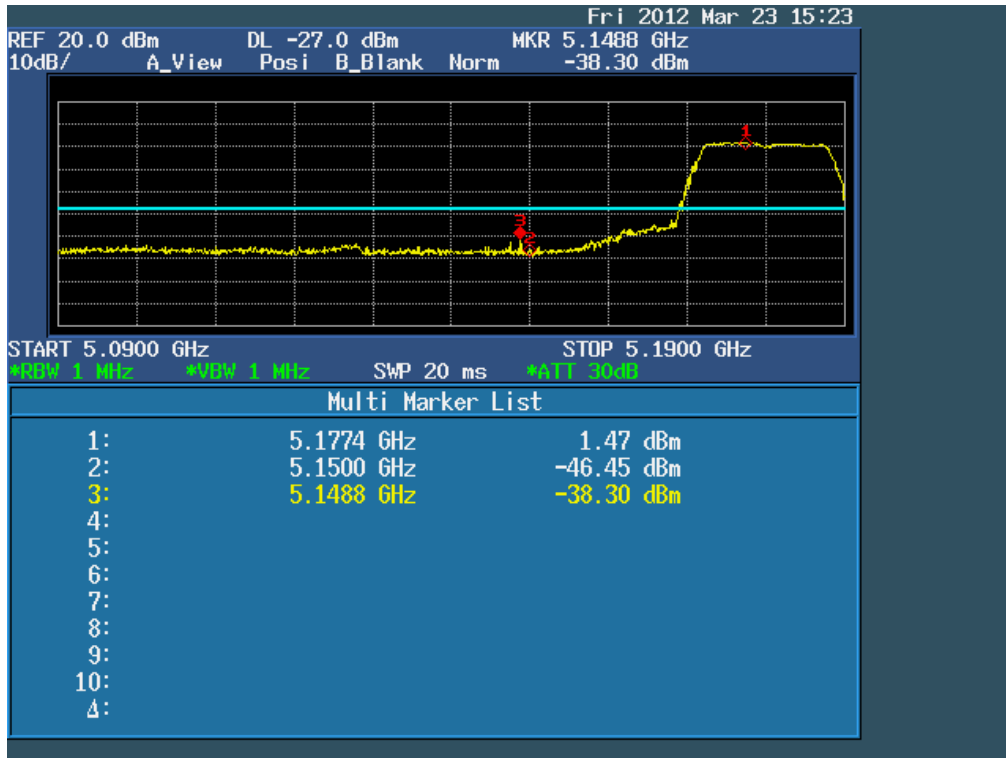
No deviation.

6.6.4 Test setup

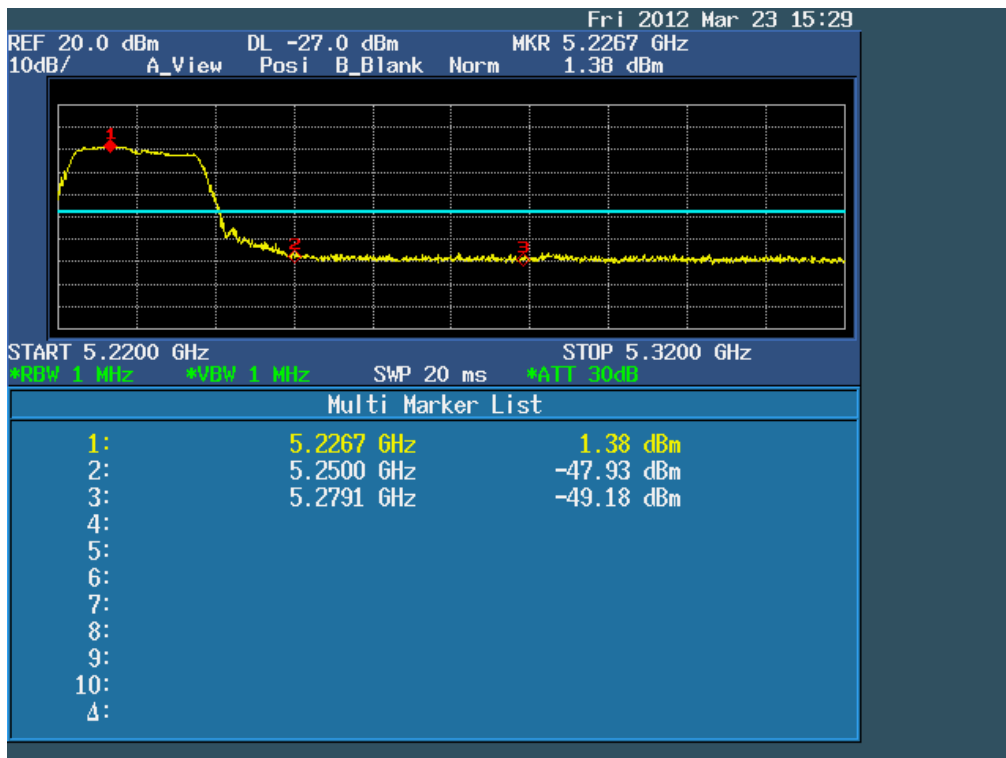


6.6.5 Test results

Ant 1 802.11n(20M) (5.15GHz-5.25GHz) CH 36 (Lower) Data rate 7.2Mbps



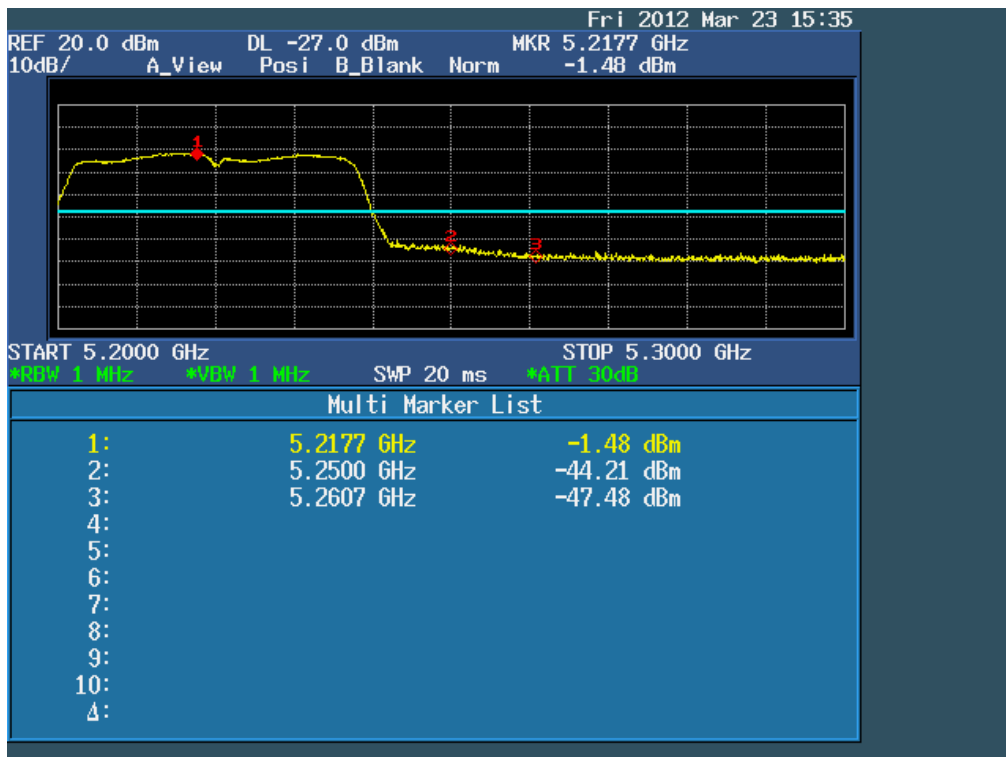
Ant 1 802.11n(20M) (5.15GHz-5.25GHz) CH 46 (Upper) Data rate 7.2Mbps



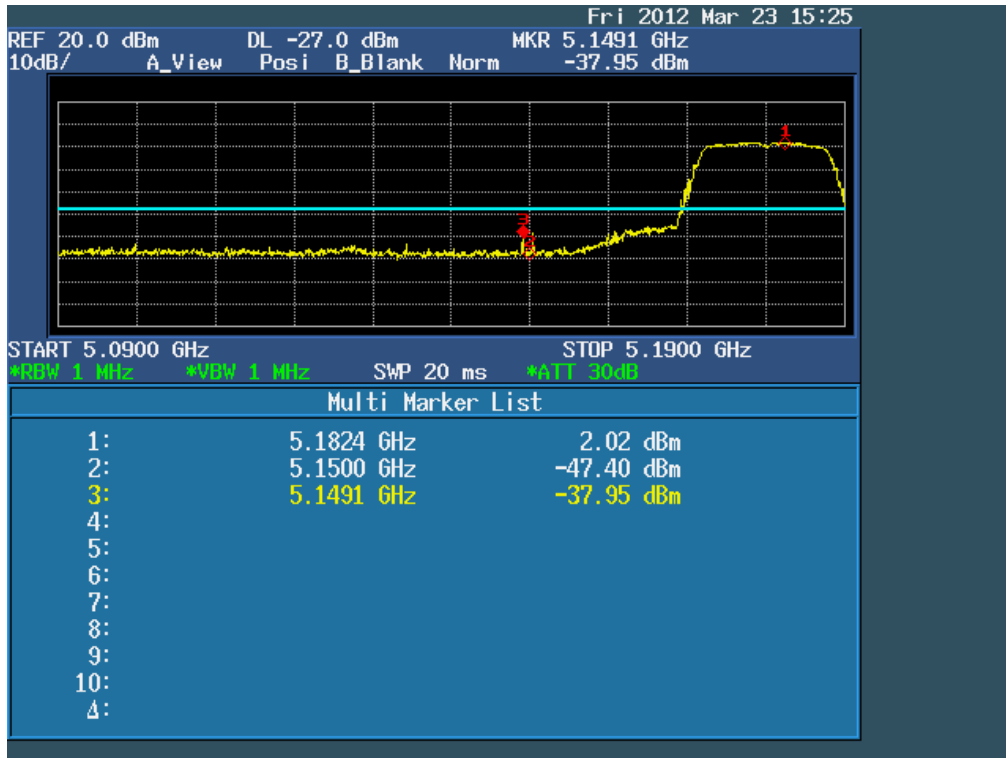
**Ant 1 802.11n(40M) (5.15GHz-5.25GHz)
 CH 38 (Lower) Data rate 7.2Mbps**



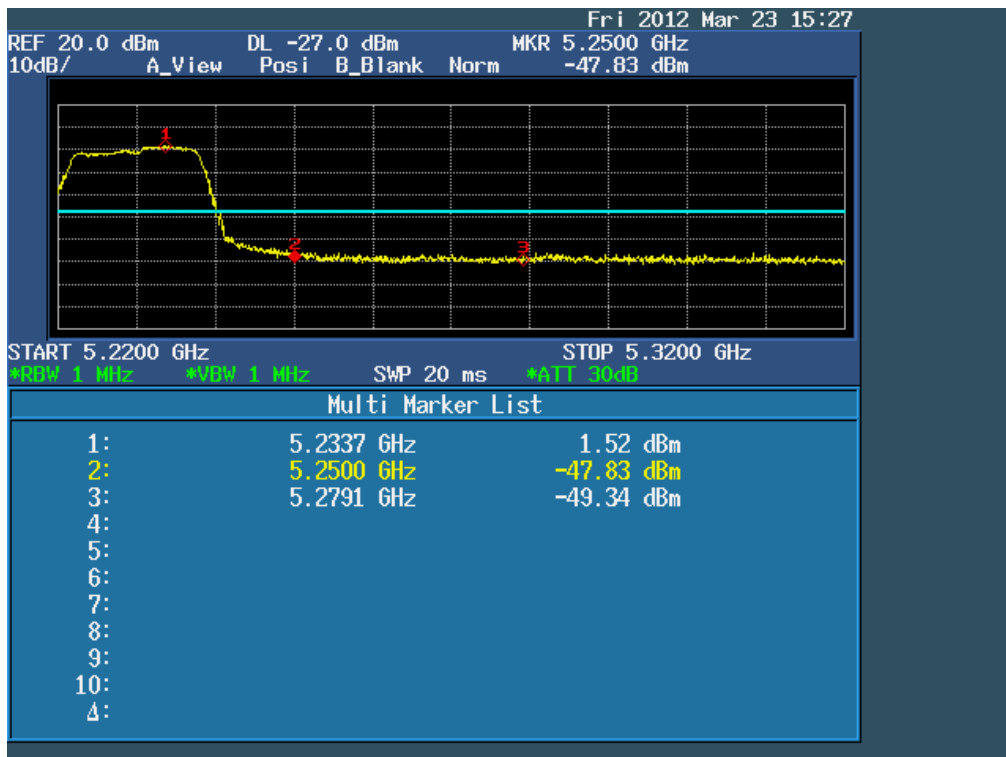
**Ant 1 802.11n(40M) (5.15GHz-5.25GHz)
 CH 44 (Upper) Data rate 7.2Mbps**



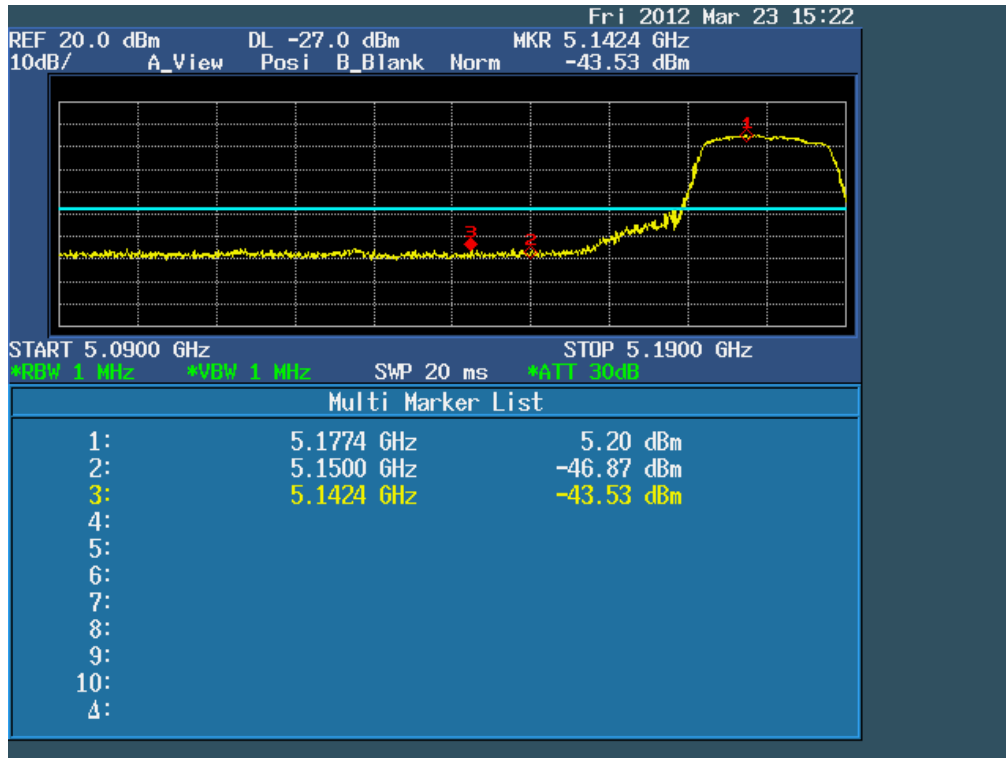
Ant 1 802.11a (5.15GHz-5.25GHz)
CH 36 (Lower) Data rate 6Mbps



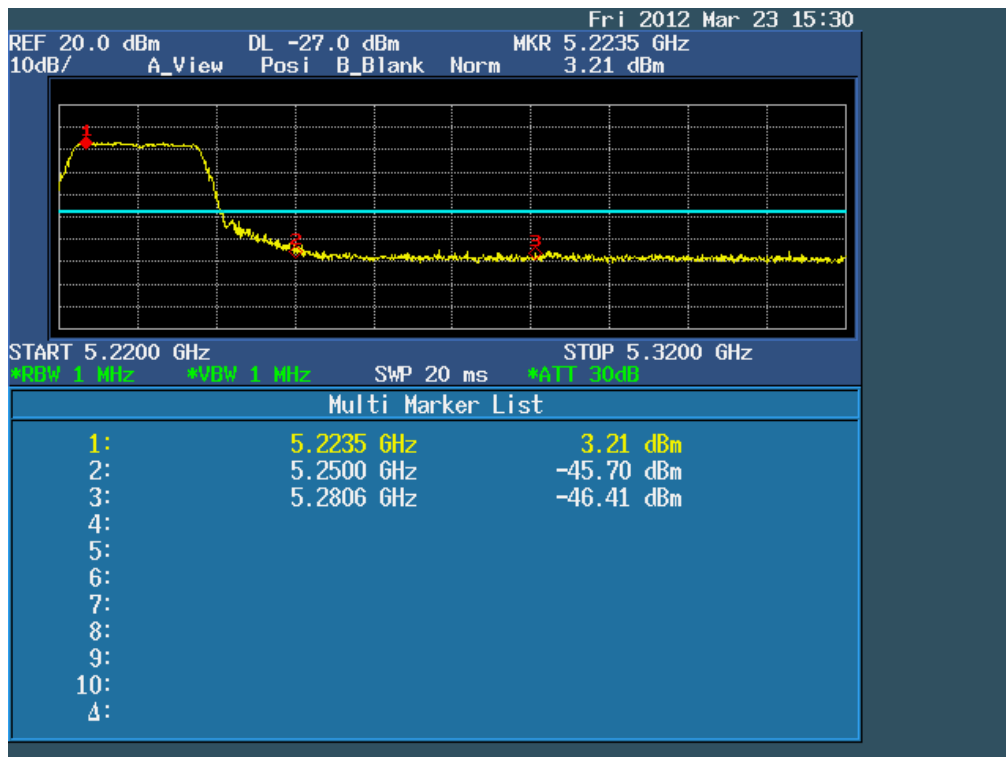
Ant 1 802.11a (5.15GHz-5.25GHz)
CH 46 (Upper) Data rate 6Mbps



Ant 2 802.11n(20M) (5.15GHz-5.25GHz)
CH 36 (Lower) Data rate 7.2Mbps



Ant 2 802.11n(20M) (5.15GHz-5.25GHz)
CH 46 (Upper) Data rate 7.2Mbps



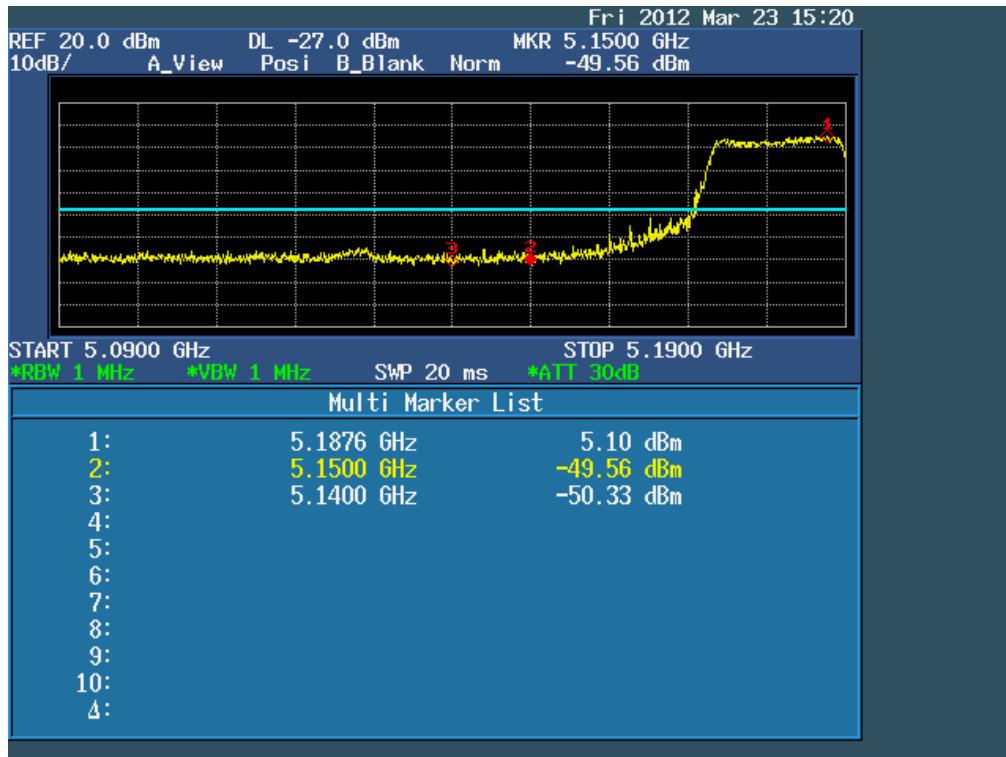
Ant 2 802.11n(40M) (5.15GHz-5.25GHz)
CH 38 (Lower) Data rate 7.2Mbps



Ant 2 802.11n(40M) (5.15GHz-5.25GHz)
CH 44 (Upper) Data rate 7.2Mbps



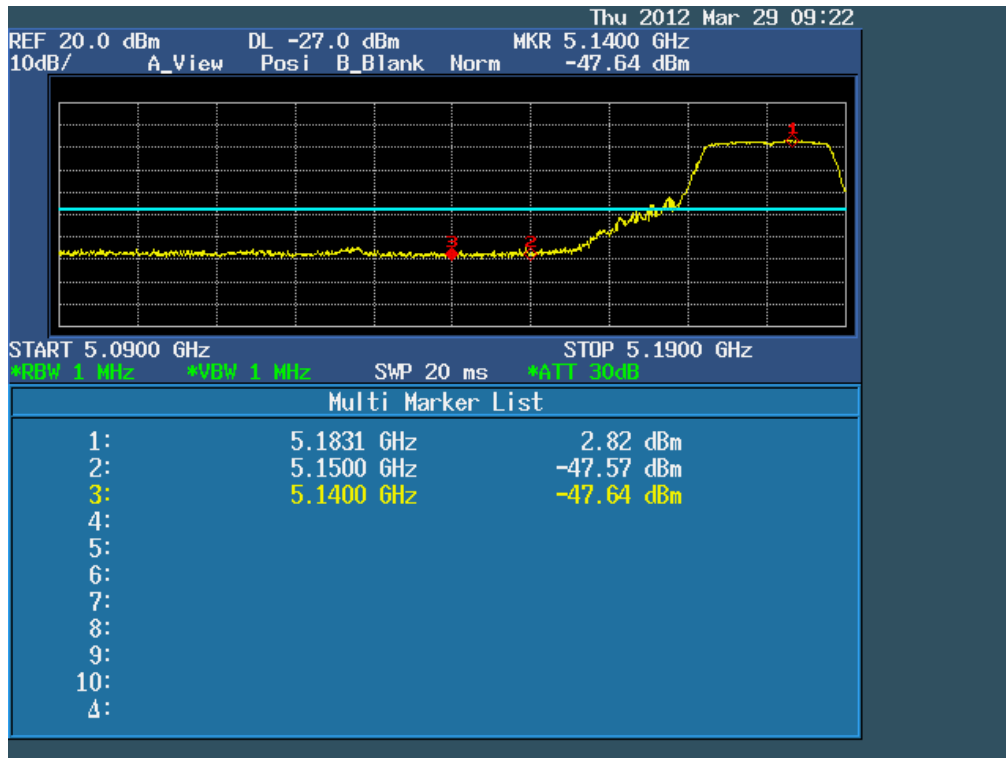
Ant 2 802.11a (5.15GHz-5.25GHz)
CH 36 (Lower) Data rate 6Mbps



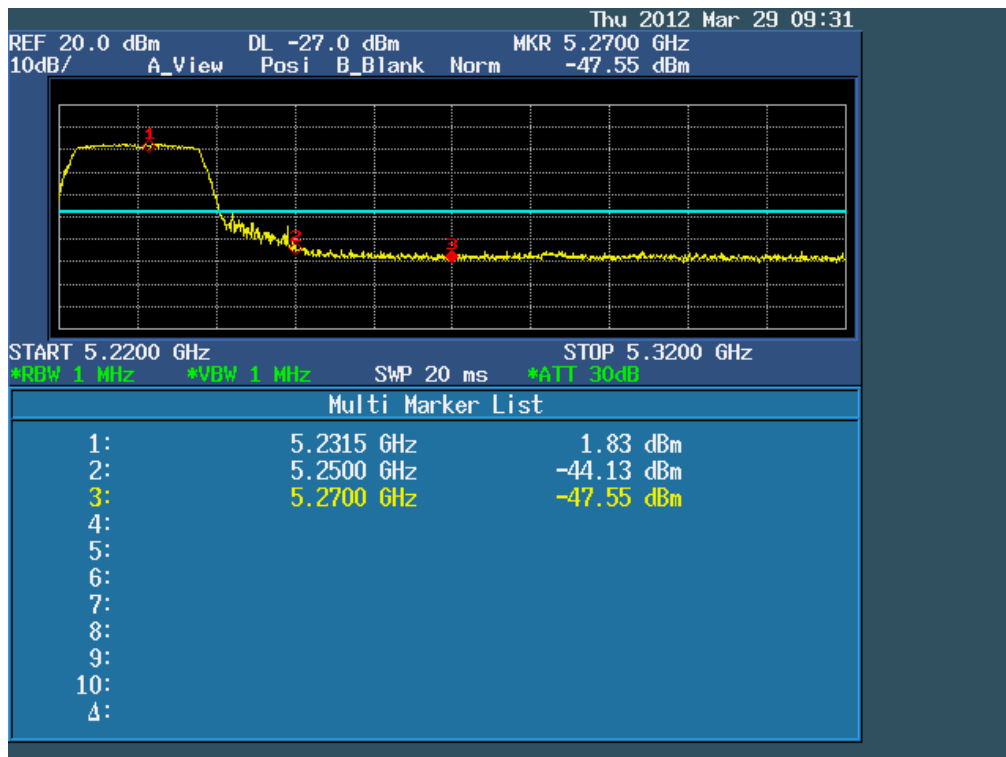
Ant 2 802.11a (5.15GHz-5.25GHz)
CH 46 (Upper) Data rate 6Mbps



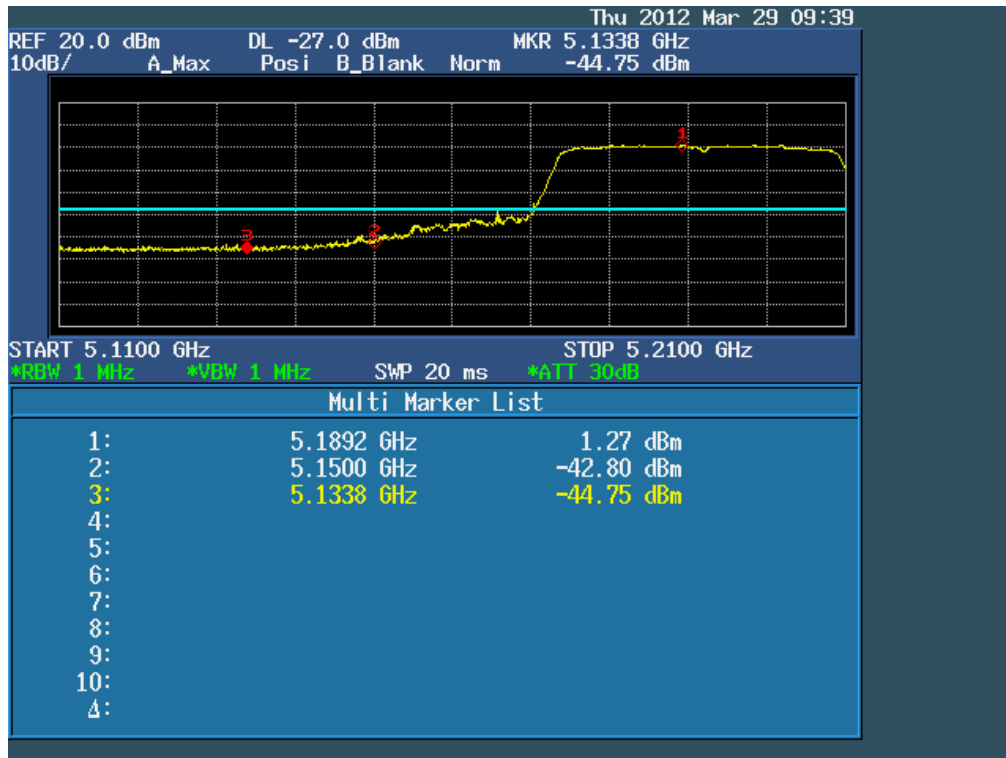
**Ant 1 +Ant 2 802.11n(20M) (5.15GHz-5.25GHz)
 CH 36 (Lower) Data rate 7.2Mbps**



**Ant 1 +Ant 2 802.11n(20M) (5.15GHz-5.25GHz)
 CH 46 (Upper) Data rate 7.2Mbps**



**Ant 1 +Ant 2 802.11n(40M) (5.15GHz-5.25GHz)
 CH 38 (Lower) Data rate 7.2Mbps**



**Ant 1 +Ant 2 802.11n(40M) (5.15GHz-5.25GHz)
 CH 44 (Upper) Data rate 7.2Mbps**



Ant 1 +Ant 2 802.11a (5.15GHz-5.25GHz)
CH 36 (Lower) Data rate 6Mbps



Ant 1 +Ant 2 802.11a (5.15GHz-5.25GHz)
CH 46 (Upper) Data rate 6Mbps



6.7 PEAK EXCURSION

6.7.1 Applied procedures / Limit

According to §15.407(a)(6), the ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

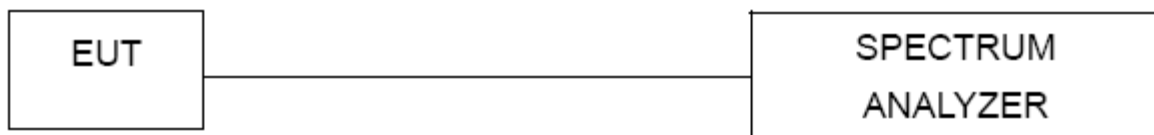
6.7.2 Test procedure

- a. Place the EUT on the table and set it in transmitting mode.
- b. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum.
- c. Trace A, Set RBW =1MHz, VBW \geq RBW, Span >26 dB bandwidth, Max. hold.
- d. Delta Mark trace A Maximum frequency and trace B same frequency.
- e. Repeat the above procedure until measurements for all frequencies were complete.

6.7.3 Deviation from standard

No deviation.

6.7.4 Test setup

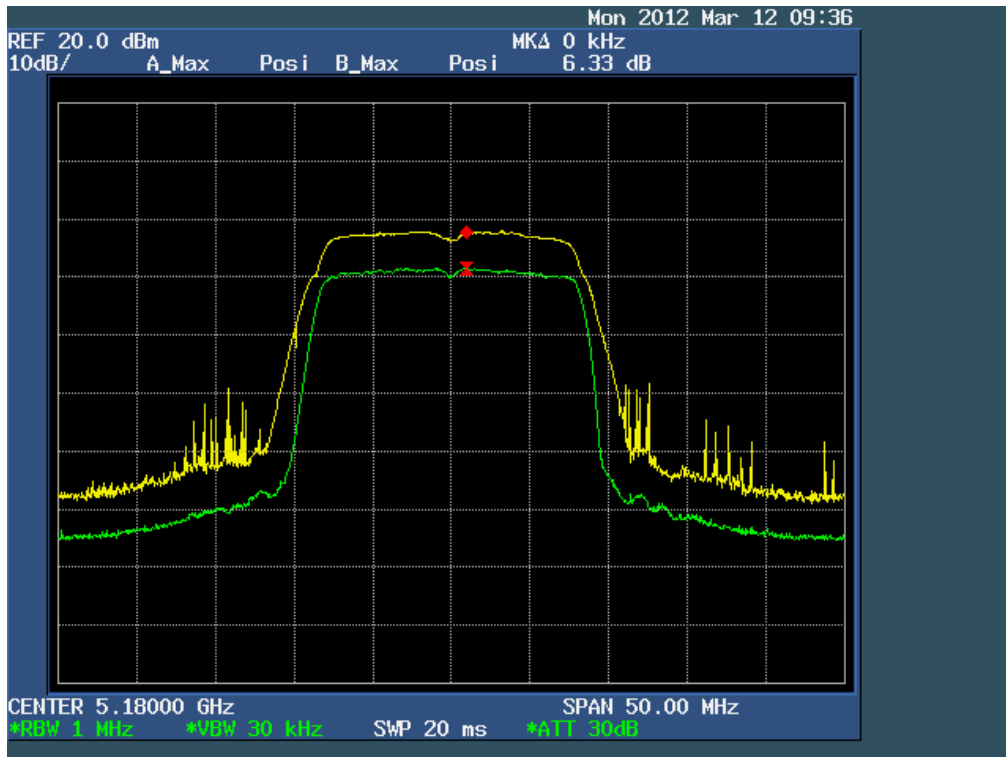


6.7.5 Test results

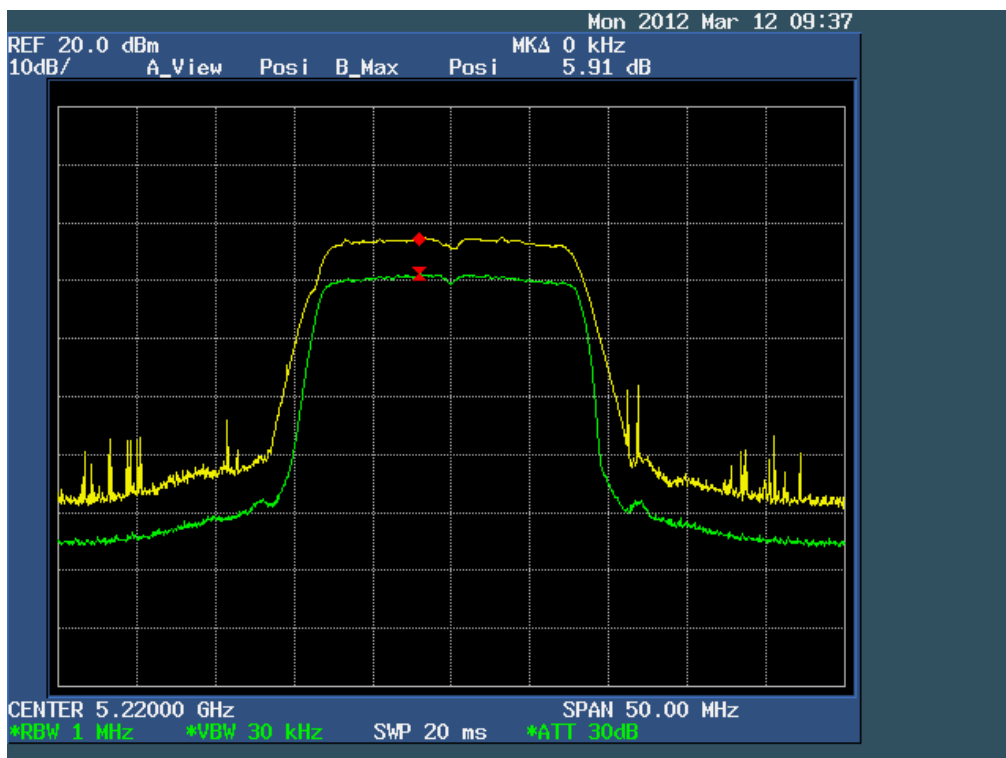
EUT:	LCD Monitor	Model Name :	DW271HL
Temperature:	26 °C	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX		

Test Mode	Frequency	Peak Excursion (dB)	Limit (dBm)	Margin (dB)	Result
Ant1 802.11n(20M) (5.15GHz-5.25GHz) Data rate 7.2Mbps	5180 MHz	6.33	13	-6.67	Pass
	5220 MHz	5.91	13	-7.09	Pass
	5230 MHz	5.83	13	-7.17	Pass
Ant1 802.11n(40M) (5.15GHz-5.25GHz) Data rate 7.2Mbps	5190 MHz	5.71	13	-7.29	Pass
	5220 MHz	5.65	13	-7.35	Pass
Ant1 802.11a (5.15GHz-5.25GHz) Data rate 6Mbps	5180 MHz	6.30	13	-6.70	Pass
	5220 MHz	5.88	13	-7.12	Pass
	5230 MHz	6.02	13	-6.98	Pass
Ant 2 802.11n(20M) (5.15GHz-5.25GHz) Data rate 7.2Mbps	5180 MHz	6.03	13	-6.97	Pass
	5220 MHz	5.61	13	-7.39	Pass
	5230 MHz	5.94	13	-7.06	Pass
Ant 2 802.11n(40M) (5.15GHz-5.25GHz) Data rate 7.2Mbps	5190 MHz	5.87	13	-7.13	Pass
	5220 MHz	5.73	13	-7.27	Pass
Ant 2 802.11a (5.15GHz-5.25GHz) Data rate 6Mbps	5180 MHz	5.82	13	-7.18	Pass
	5220 MHz	6.01	13	-6.99	Pass
	5230 MHz	5.88	13	-7.12	Pass

Ant 1 802.11n(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz

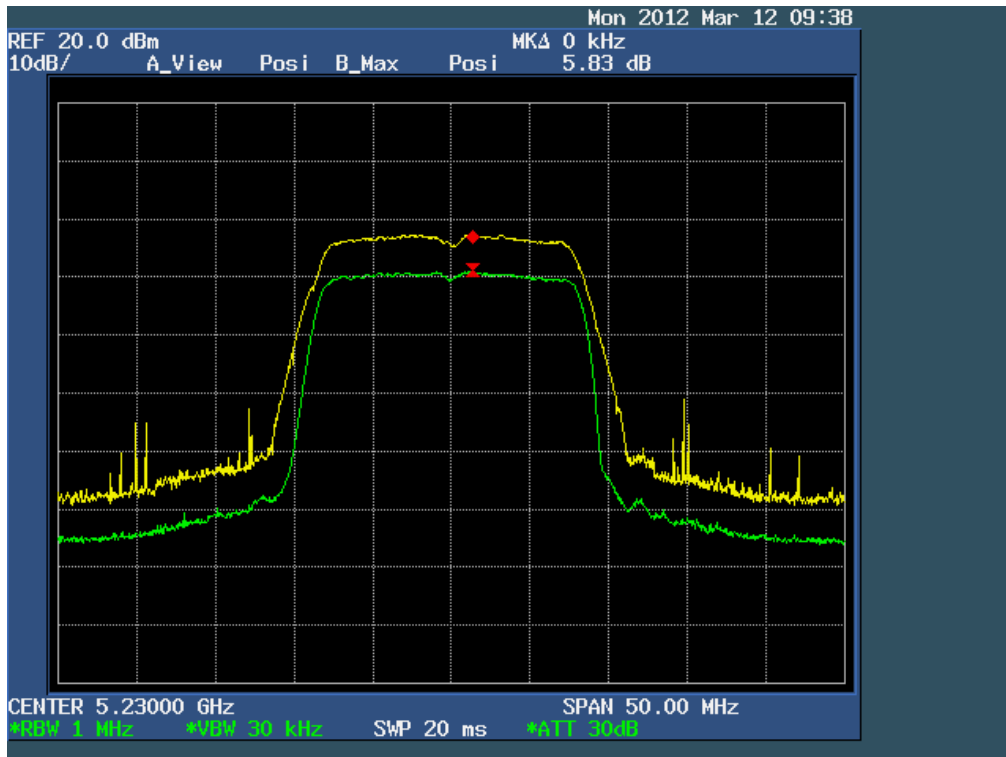


Ant 1 802.11n(20M) (5.15GHz-5.25GHz)
The Middle Channel 44: 5220MHz



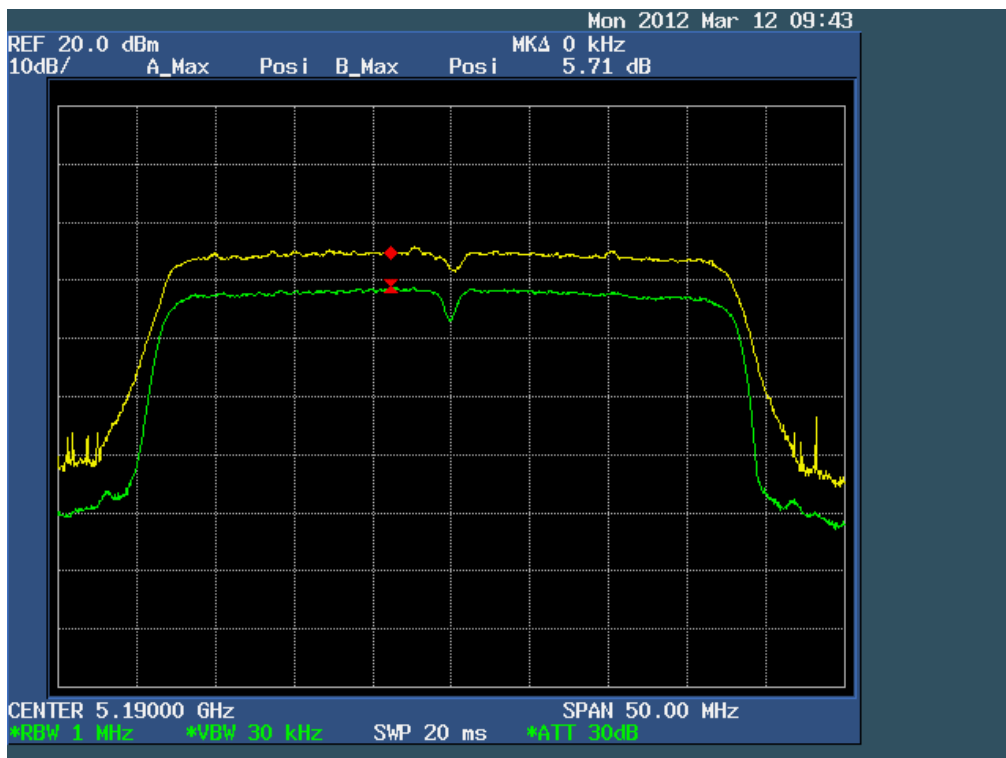
Ant 1 802.11n(20M) (5.15GHz-5.25GHz)

The Highest Channel 46: 5230MHz



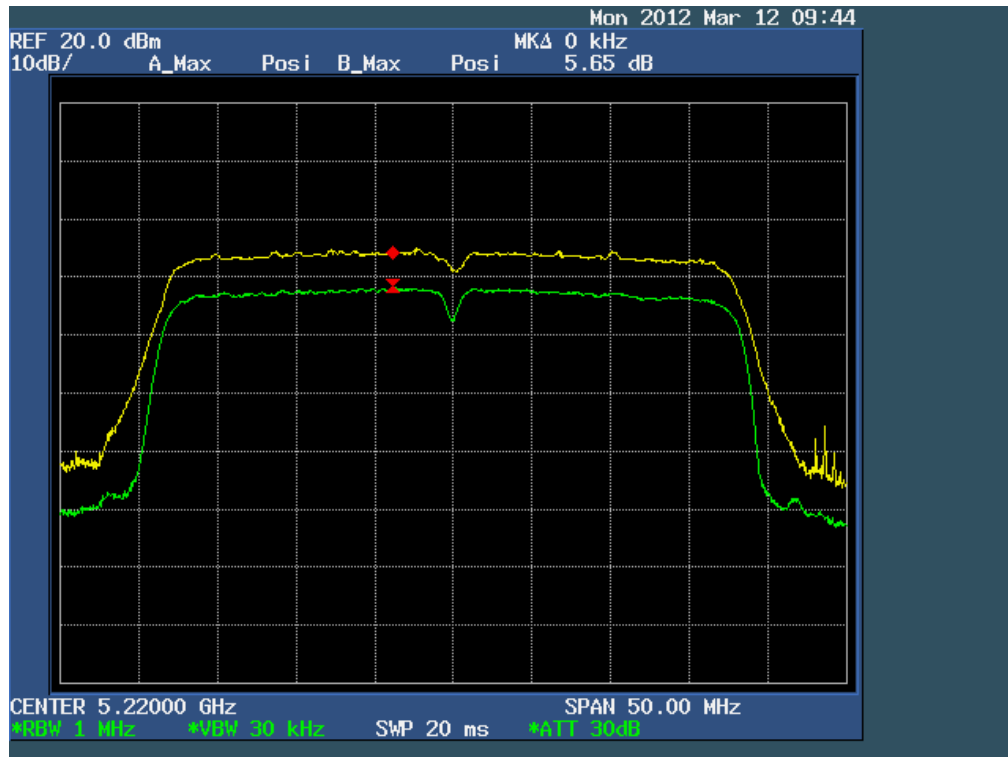
Ant 1 802.11n(40M) (5.15GHz-5.25GHz)

The Lowest Channel 38: 5190MHz



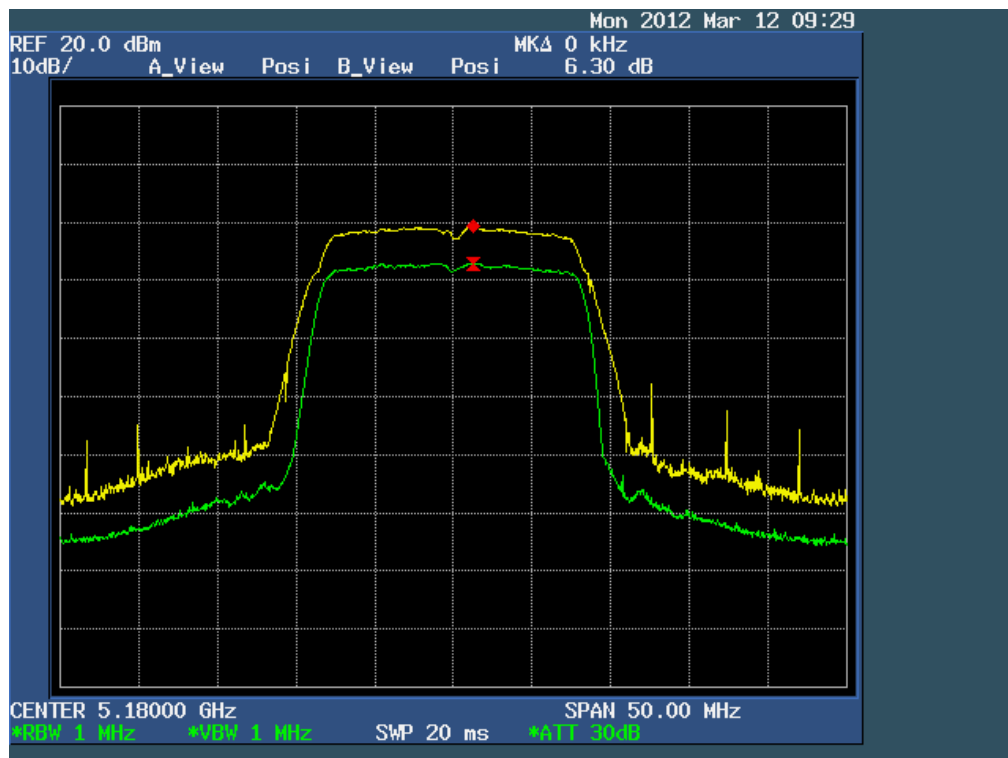
Ant 1 802.11n(40M) (5.15GHz-5.25GHz)

The highest Channel 44: 5220MHz

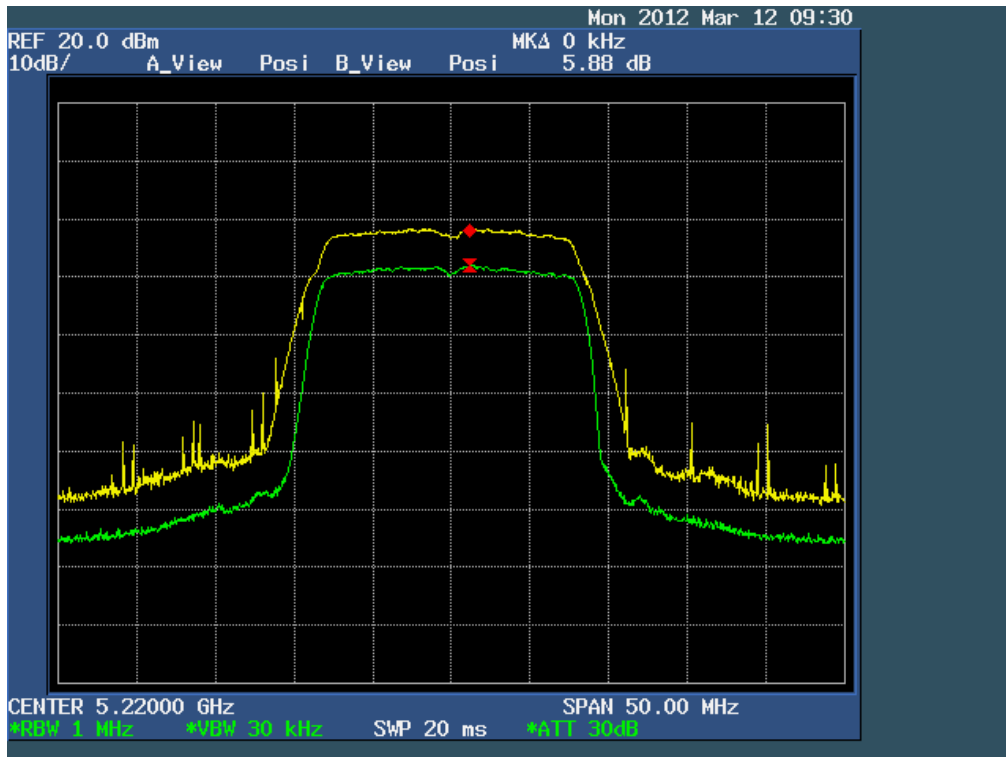


Ant 1 802.11a (5.15GHz-5.25GHz)

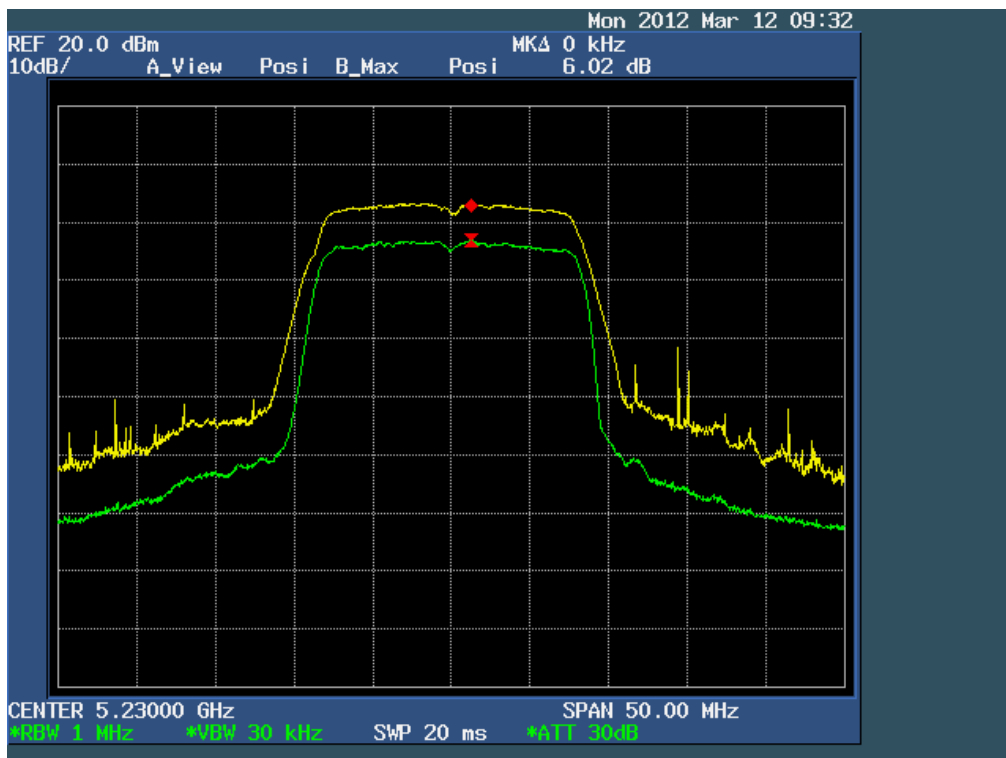
The Lowest Channel 36: 5180MHz



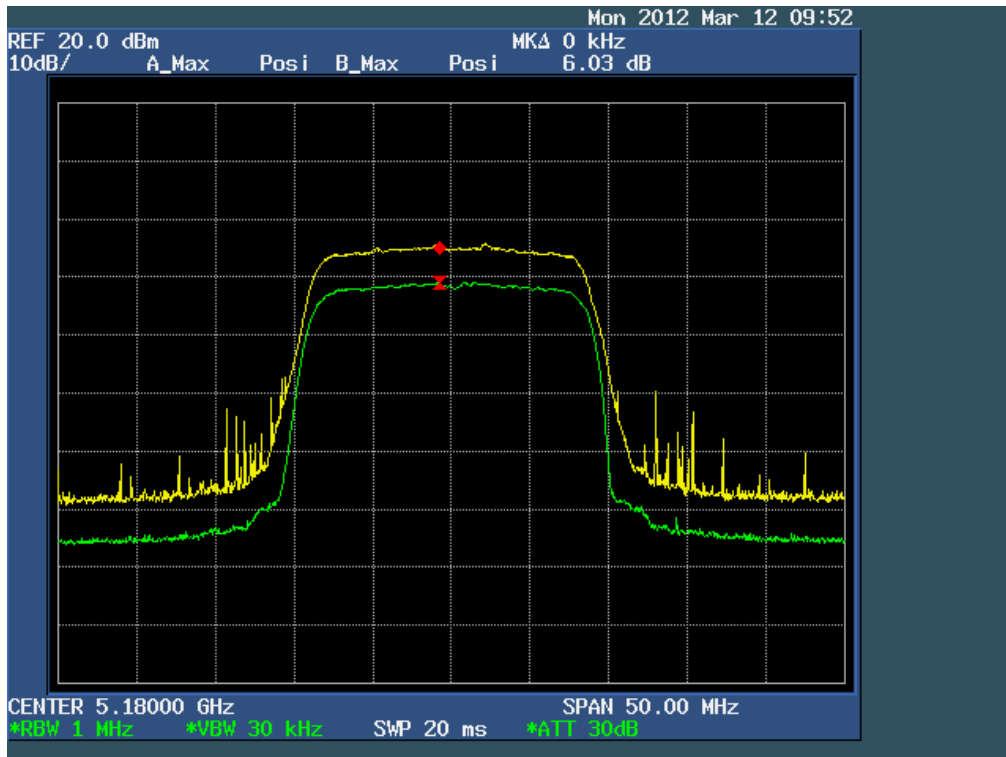
Ant 1 802.11a (5.15GHz-5.25GHz)
The Middle Channel 44: 5220MHz



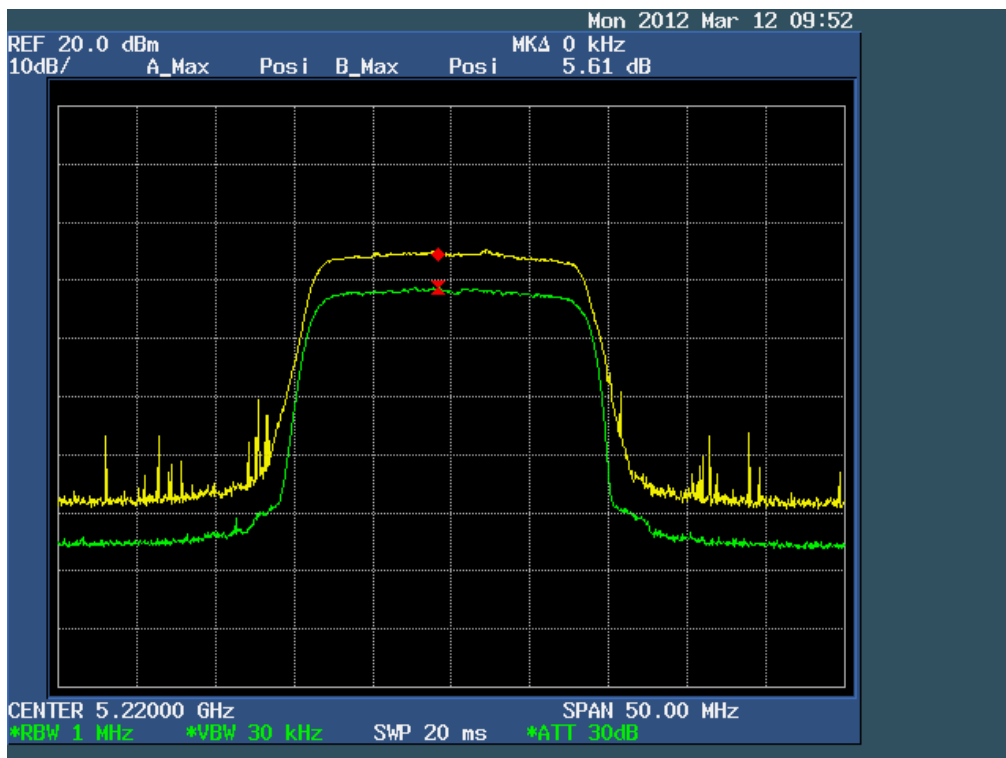
Ant 1 802.11a (5.15GHz-5.25GHz)
The Highest Channel 46: 5230MHz



Ant 2 802.11n(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz

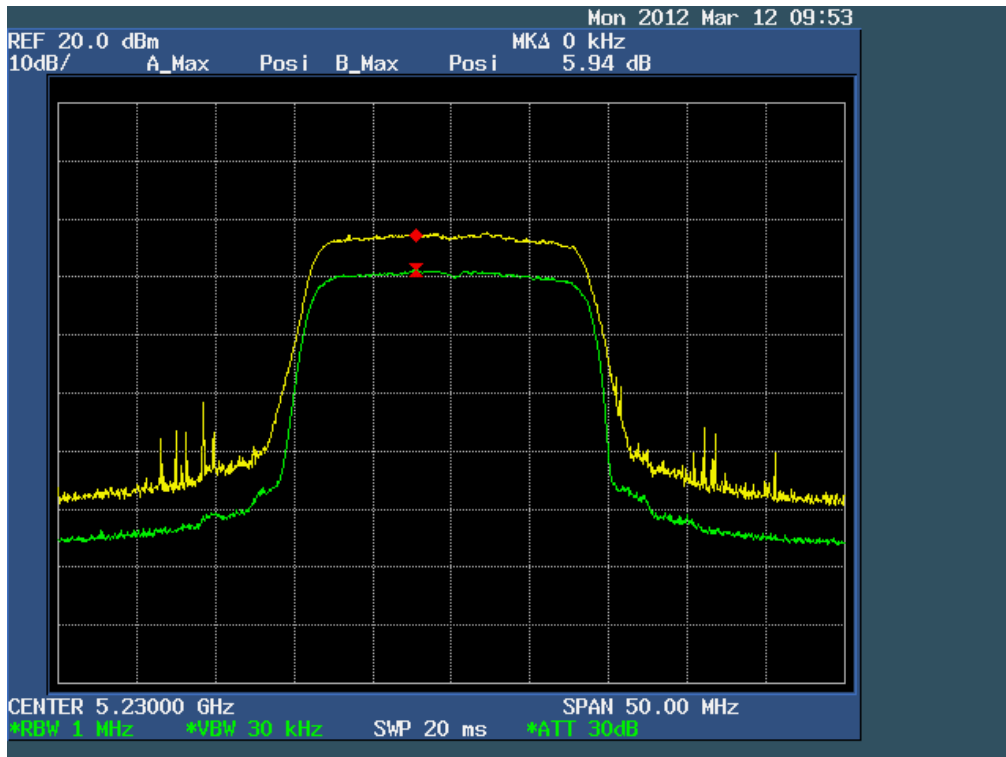


Ant 2 802.11n(20M) (5.15GHz-5.25GHz)
The Middle Channel 44: 5220MHz



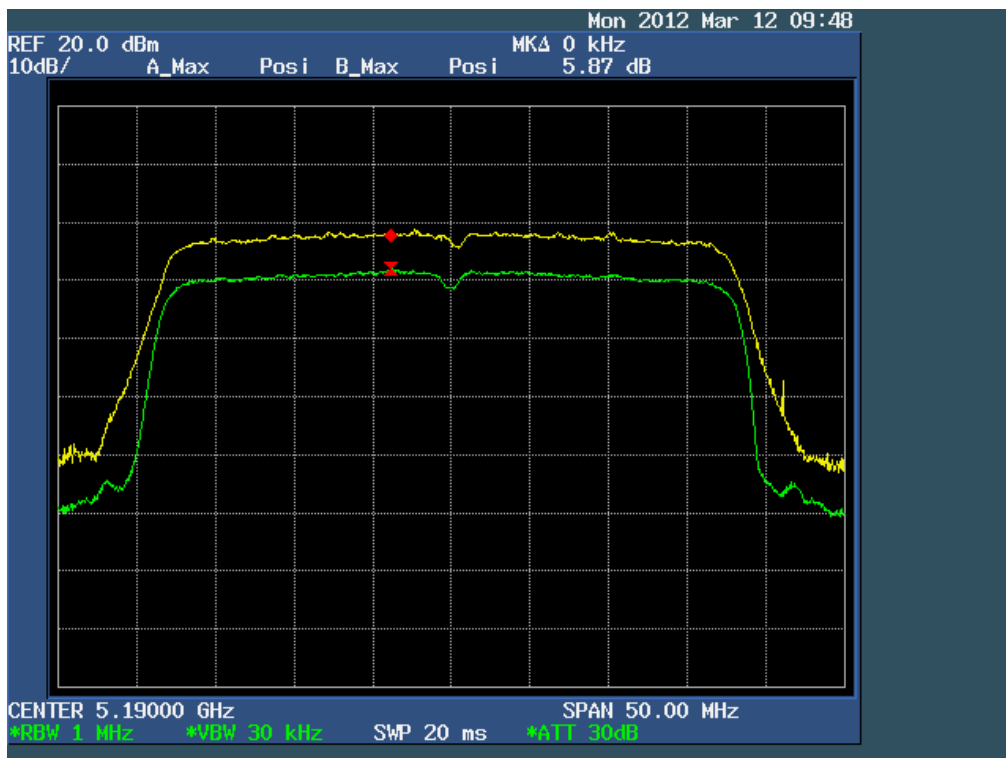
Ant 2 802.11n(20M) (5.15GHz-5.25GHz)

The Highest Channel 46: 5230MHz

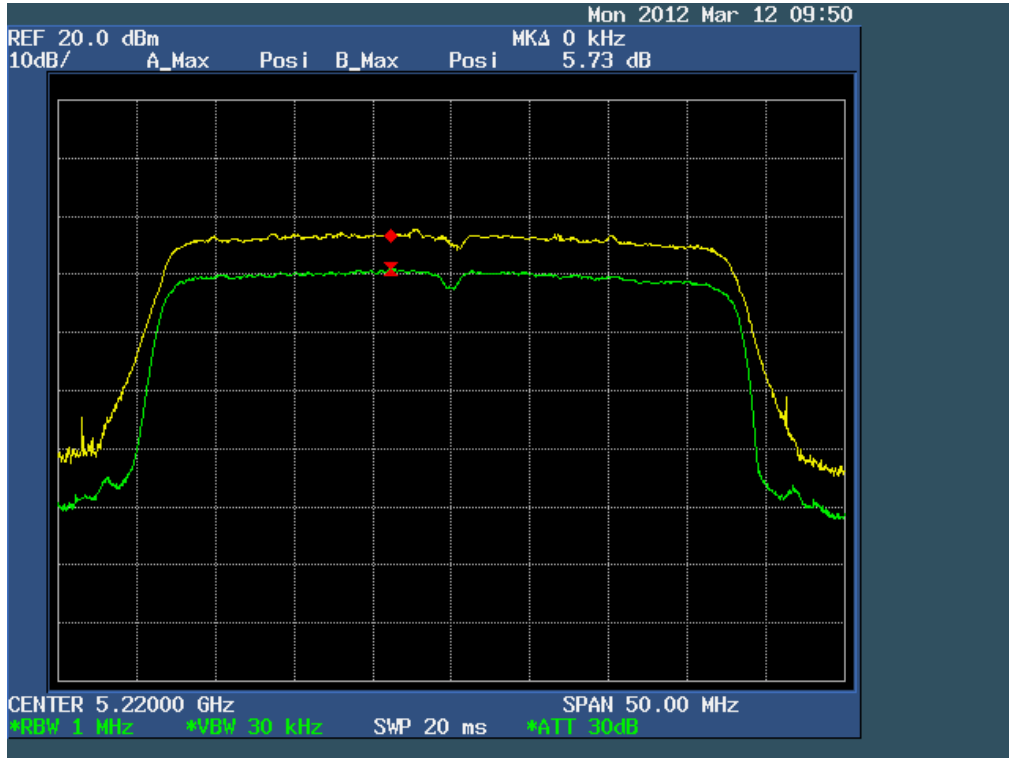


Ant 2 802.11n(40M) (5.15GHz-5.25GHz)

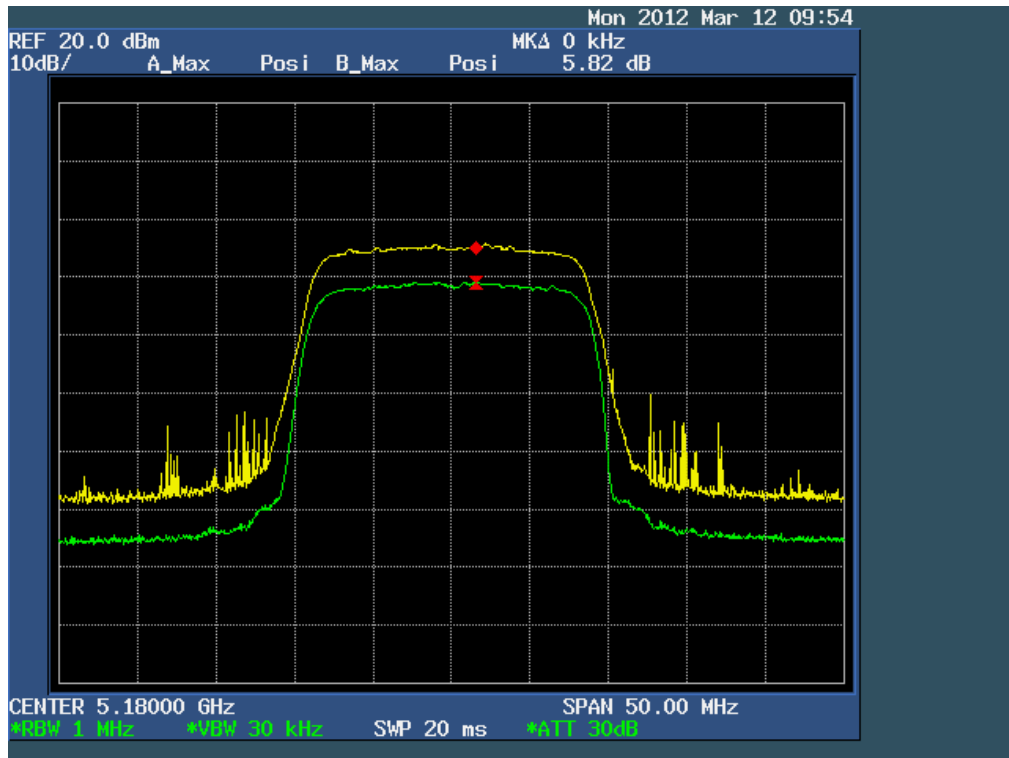
The Lowest Channel 38: 5190MHz



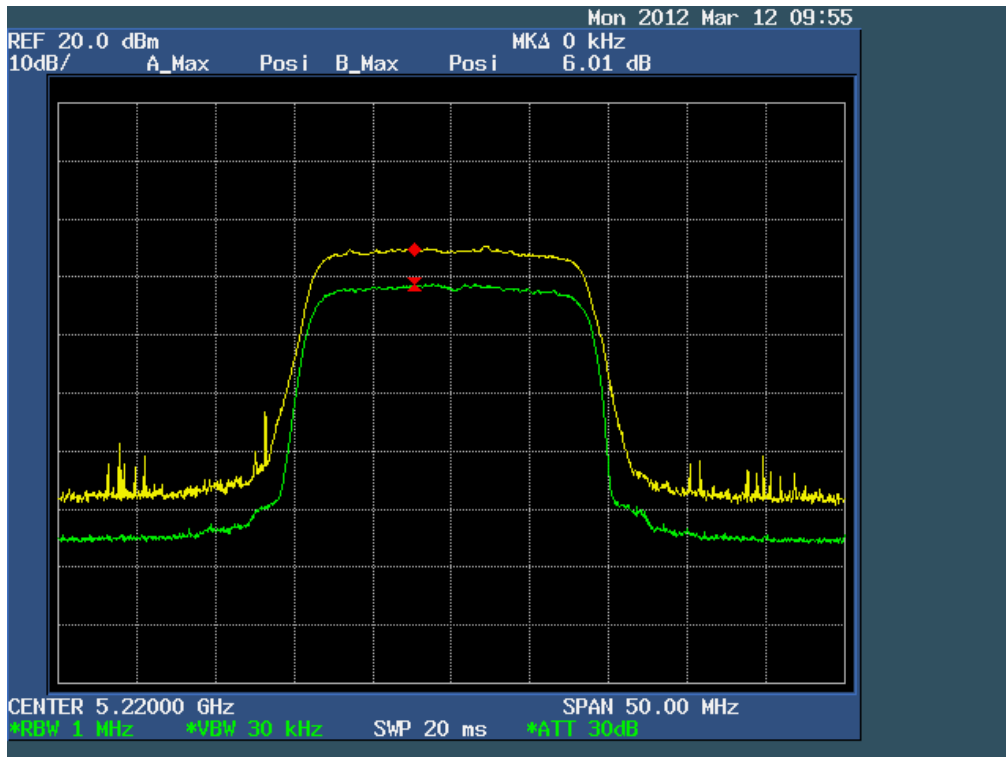
Ant 2 802.11n(40M) (5.15GHz-5.25GHz)
The Highest Channel 44: 5220MHz



Ant 2 802.11a (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz



Ant 2 802.11a (5.15GHz-5.25GHz)
The Middle Channel 44: 5220MHz



Ant 2 802.11a (5.15GHz-5.25GHz)
The Highest Channel 46: 5230MHz

