FCC Test Report

Part 15 subpart C

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 : acer

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

1 Contents

2 Test Summary

2.1 Compliance with FCC Part 15 subpart C

Test	Test Requirement	Standard Paragraph	Result
Antenna Requirement	FCC Part 15 C:2008	Section 15.247(c)	**PASS**
Conduction Emissions	FCC Part 15 C:2008	Section 15.207(a)	**PASS**
Radiated Emissions	FCC Part 15 C:2008	Section 15.247(d)	**PASS**
Occupied Bandwidth	FCC Part 15 C:2008	Section 15.247(a)(2)	**PASS**
Peak power density	FCC Part 15 C:2008	Section 15.247(e)	**PASS**
Maximum Peak Output Power	FCC Part 15 C:2008	Section 15.247(b)(1)	**PASS**
Band edge	FCC Part 15 C:2008	Section 15.247(d)	**PASS**
Conducted Spurious Emissions	FCC Part 15 C:2008	Section 15.247(d)	**PASS**
Note: Reference to the KDB 558074 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

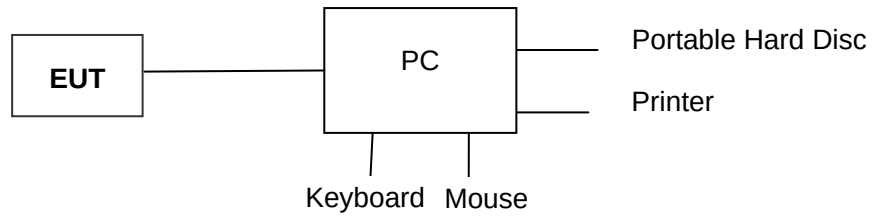
Manufacturer:	Wistron Corporation
Manufacturer Address:	21F, 88, Sec. 1, Hsintai 5th Rd., Hsichih New Taipei City 22181 Taiwan, R.O.C.
EUT Name:	LCD Monitor
Model No:	DW271HL
Operation frequency:	2400 MHz to 2483.5MHz
Modulation Technology:	802.11a:BPSK(6Mbps,9Mbps),QPSK(12Mbps,18Mbps), 16QAM(24Mbps,36Mbps),64QAM(48Mbps,54Mbps) 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:	acer
Serial No:	N/A
Power Supply Range:	AC 120V/60Hz
Power Supply:	AC 120V/60Hz
Power Cord:	N/A
Output power（max）:	ANT 1 802.11b: 10.01dBm ANT 1 802.11g: 10.21dBm ANT 1 802.11n(20M): 9.54dBm ANT 1 802.11n(40M): 9.09dBm ANT 1 802.11a(5.725GHz-5.850GHz): 9.19dBm ANT 2 802.11b: 9.35dBm ANT 2 802.11g: 10.82dBm ANT 2 802.11n(20M): 9.62dBm ANT 2 802.11n(40M): 9.47dBm ANT 2 802.11a (5.725GHz-5.850GHz): 8.41dBm
Model description: N/A	

Description of Channel:			
802.11b / 802.11g / 802.11n(20M)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		
802.11n(40M)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	8	2447
4	2427	9	2452
5	2432		
6	2437		
7	2442		
802.11a (5.725GHz-5.850GHz)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	159	5795
151	5755	161	5805
153	5765		
157	5785		

4.2 Description of Test conditions

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

1. Block diagram of EUT configuration(TX Mode)



(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 1 802.1b	: DBPSK(1Mbps)
ANT 1 802.11g	: BPSK(6Mbps)
ANT 1 802.11n(20M)	: BPSK(7.2Mbps)
ANT 1 802.11n(40M)	: BPSK(7.2Mbps)
ANT 1 802.11a(5.725GHz-5.850GHz)	: BPSK(6Mbps)
ANT 2 802.1b	: DBPSK(1Mbps)
ANT 2 802.11g	: BPSK(6Mbps)
ANT 2 802.11n(20M)	: BPSK(7.2Mbps)
ANT 2 802.11n(40M)	: BPSK(7.2Mbps)
ANT 2 802.11a(5.725GHz-5.850GHz)	: 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-OLKB	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	Low Noise Pre Amplifier	Tsj	MLA-10K01-B01-27	1205323	2011.09.08	2012.09.07
4	Low Noise Pre Amplifier	Tsj	MLA-0120-A02-34	2648A04738	2011.04.08	2012.04.07
5	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2011.07.15	2012.07.14
6	Broadband Horn Antenna	SCHWARZBECK	BBHA9120A	451	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	2012.03.19	2013.03.18
13	Power Meter	R&S	NRVS	101336	2011.04.08	2012.04.07

6 Test Result

6.1 Antenna Requirement

6.1.1 Standard requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

6.1.2 EUT Antenna

The antenna is integrated on the main PCB and no consideration of replacement. Antenna gain is 3 dbi from 2.4GHz to 2.5GHz. Antenna gain is 5 dbi at 5GHz.

6.2 Conduction Emissions Measurement

6.2.1 Applied procedures / Limit

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	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.

6.2.2 Test procedure

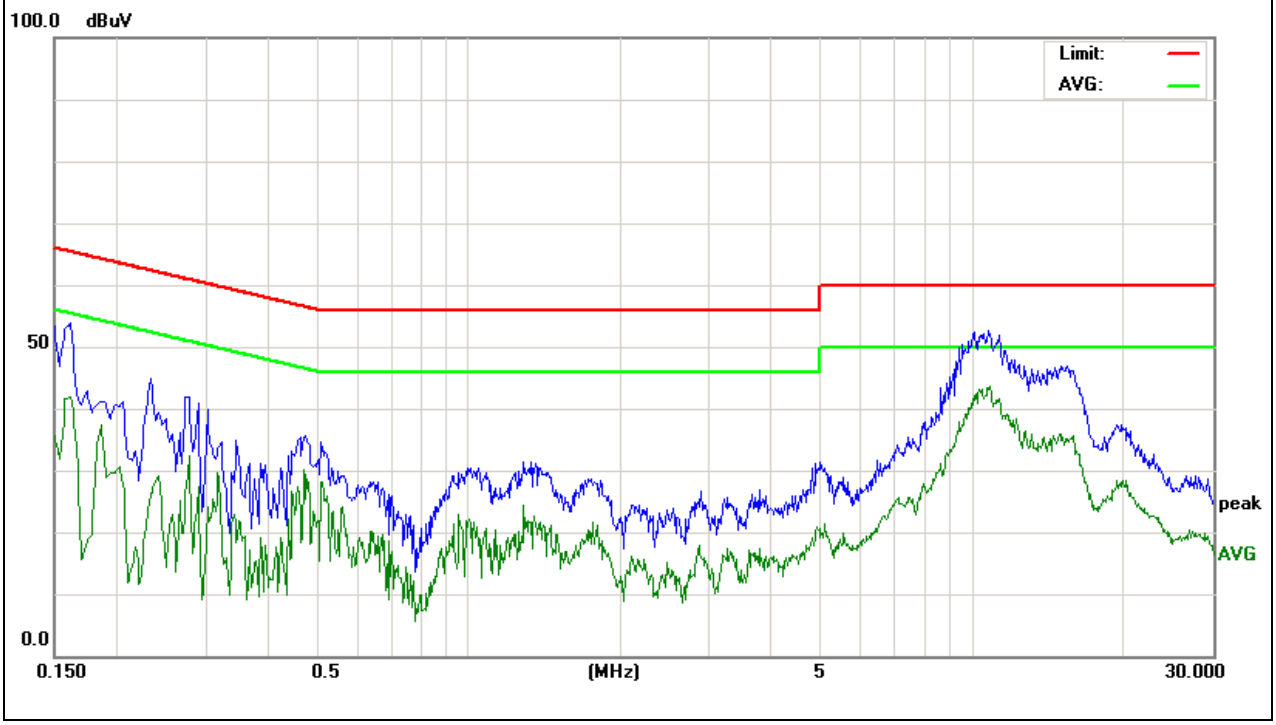
EUT was placed upon a wooden test table 0.8m above the horizontal metal reference plane and 0.4m from the vertical ground plane, and it was connected to an AMN. The closest distance between the boundary of the EUT and the surface of the AMN is 0.8m. All peripherals were connected to another AMN, and 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.

6.2.3 Test results

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

Frequency	Factor	Meter Reading (dBμV)		Emission Level (dBμV)		Limits (dBμV)		Margin (dB)	
(MHz)	(dB)	QP	Average	QP	Average	QP	Average	QP	Average
0.1620	11.68	42.20	30.28	53.88	41.96	65.36	55.36	-11.48	-13.40
0.4698	10.40	24.91	19.75	35.31	30.15	56.52	46.52	-21.21	-16.37
0.9578	10.19	19.34	12.56	29.53	22.75	56.00	46.00	-26.47	-23.25
1.2860	10.19	21.08	14.18	31.27	24.37	56.00	46.00	-24.73	-21.63
5.1097	10.19	20.19	11.27	30.38	21.46	60.00	50.00	-29.62	-28.54
*10.8549	1.32	49.70	42.24	51.02	43.56	60.00	50.00	-8.98	-6.44

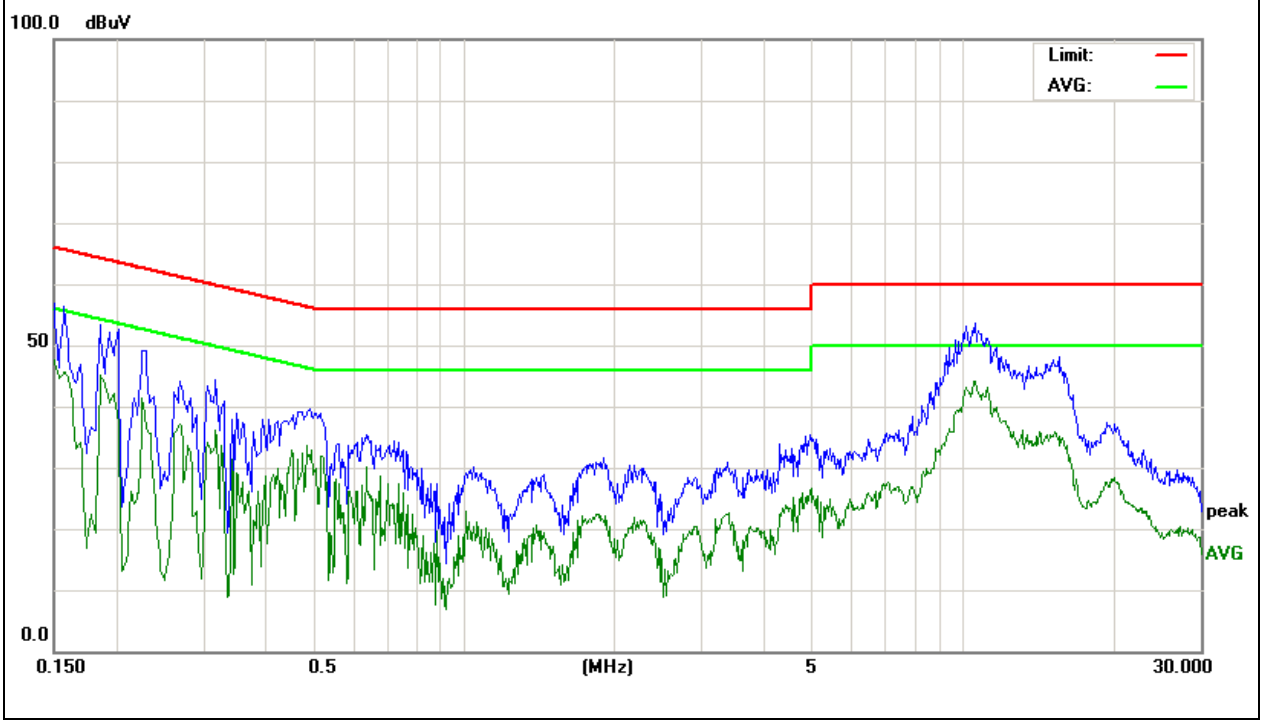
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. '*' means the worst case



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

Frequency	Factor	Meter Reading (dBμV)		Emission Level (dBμV)		Limits (dBμV)		Margin (dB)	
(MHz)	(dB)	QP	Average	QP	Average	QP	Average	QP	Average
0.1859	11.31	42.10	33.87	53.41	45.18	64.21	54.21	-10.80	-9.03
0.4818	10.39	28.33	23.27	38.72	33.66	56.31	46.31	-17.59	-12.65
1.0100	10.19	19.04	12.68	29.23	22.87	56.00	46.00	-26.77	-23.13
1.8540	10.17	20.56	12.29	30.73	22.46	56.00	46.00	-25.27	-23.54
4.9659	10.19	24.51	16.50	34.70	26.69	56.00	46.00	-21.30	-19.31
10.5336	1.29	50.81	42.91	52.10	44.20	60.00	50.00	-7.90	-5.80

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



6.3 Radiated Emissions Measurement

6.3.1 Applied procedures / Limit

15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Frequency of Emission (MHz)	Field Strength		Measurement Distance (meters)
	μV/m	dBμV/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

6.3.2 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.

6.3.3 Test Result

There is not detected blow 30MHz.

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	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
***41.4215**	**52.87**	**-16.57**	**36.30**	**40.00**	**-3.70**	**QUASIPEAK**
82.6482	39.26	-17.86	21.40	40.00	-18.60	QUASIPEAK
122.4038	45.82	-13.02	32.80	43.50	-10.70	QUASIPEAK
201.3930	43.24	-11.34	31.90	43.50	-11.60	QUASIPEAK
394.8543	36.70	-8.56	28.14	46.00	-17.86	QUASIPEAK
570.6100	38.11	-3.59	34.52	46.00	-11.48	QUASIPEAK

(b) Antenna polarization: vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
30.0000	50.00	-15.00	35.00	40.00	-5.00	QUASIPEAK
***41.1319**	**53.02**	**-16.62**	**36.40**	**40.00**	**-3.60**	**QUASIPEAK**
96.0986	48.66	-16.36	32.30	43.50	-11.20	QUASIPEAK
244.2321	37.40	-10.67	26.73	46.00	-19.27	QUASIPEAK
389.3548	43.94	-8.66	35.28	46.00	-10.72	QUASIPEAK
721.7259	30.56	-1.48	29.08	46.00	-16.92	QUASIPEAK

Note: '*' means the worst case
Measurement Level = Reading Level + Factor
Factor=Ant Factor + Cable Loss

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-02-09
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11b (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
2400.000	50.16	-5.70	44.46	74.00	-29.54	PEAK
2400.000	29.86	-5.70	24.16	54.00	-29.84	AVERAGE
***4824.000**	**58.34**	**5.08**	**63.42**	**74.00**	**-10.58**	**PEAK**
4824.000	36.72	5.08	41.80	54.00	-12.20	AVERAGE
7236.000	53.47	7.16	60.63	74.00	-13.37	PEAK
7236.000	32.79	7.16	39.95	54.00	-14.05	AVERAGE
9648.000	48.24	10.82	59.06	74.00	-14.94	PEAK
9648.000	26.38	10.82	37.20	54.00	-16.80	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.000	51.94	-5.70	46.24	74.00	-27.76	PEAK
2400.000	30.78	-5.70	25.08	54.00	-28.92	AVERAGE
4824.000	57.68	5.08	62.76	74.00	-11.24	PEAK
4824.000	37.15	5.08	42.23	54.00	-11.77	AVERAGE
***7236.000**	**56.38**	**7.16**	**63.54**	**74.00**	**-10.46**	**PEAK**
7236.000	35.31	7.16	42.47	54.00	-11.53	AVERAGE
9648.000	50.16	10.82	60.98	74.00	-13.02	PEAK
9648.000	28.47	10.82	39.29	54.00	-14.71	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 01: 2412 MHz

Data rate: 1Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.000**	**60.36**	**5.14**	**65.50**	**74.00**	**-8.50**	**PEAK**
4884.000	39.35	5.14	44.49	54.00	-9.51	AVERAGE
7326.000	50.47	7.55	58.02	74.00	-15.98	PEAK
7326.000	30.74	7.55	38.29	54.00	-15.71	AVERAGE
9768.000	44.28	11.40	55.68	74.00	-19.32	PEAK
9768.000	21.53	11.4	32.93	54.00	-21.07	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.000**	**61.35**	**5.14**	**66.49**	**74.00**	**-7.51**	**PEAK**
4884.000	40.58	5.14	45.72	54.00	-8.28	AVERAGE
7326.000	54.23	7.55	61.78	74.00	-12.22	PEAK
7326.000	28.75	7.55	36.3	54.00	-17.70	AVERAGE
9768.000	46.87	11.40	58.27	74.00	-15.73	PEAK
9768.000	24.91	11.4	36.31	54.00	-17.69	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 07: 2442 MHz

Data rate: 1Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	54.15	-4.98	49.17	74.00	-24.83	PEAK
2483.500	32.30	-4.98	27.32	54.00	-26.68	AVERAGE
***4924.000**	**59.12**	**5.18**	**64.30**	**74.00**	**-9.70**	**PEAK**
4924.000	37.31	5.18	42.49	54.00	-11.51	AVERAGE
7386.000	55.45	7.82	63.27	74.00	-10.73	PEAK
7386.000	34.58	7.82	42.40	54.00	-11.60	AVERAGE
9848.000	45.67	11.79	57.46	74.00	-16.54	PEAK
9848.000	24.14	11.79	35.93	54.00	-18.07	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	52.96	-4.98	47.98	74.00	-26.02	PEAK
2483.500	31.96	-4.98	26.98	54.00	-27.02	AVERAGE
***4924.000**	**58.67**	**5.18**	**63.85**	**74.00**	**-10.15**	**PEAK**
4924.000	36.95	5.18	42.13	54.00	-11.87	AVERAGE
7386.000	54.86	7.82	62.68	74.00	-11.32	PEAK
7386.000	34.67	7.82	42.49	54.00	-11.51	AVERAGE
9848.000	46.97	11.79	58.76	74.00	-15.24	PEAK
9848.000	25.73	11.79	37.52	54.00	-16.48	AVERAGE

Note: '*' means the worst case
Measurement Level = Reading Level + Factor
Factor=Ant Factor + Cable Loss
High Channel 11: 2462 MHz
Data rate: 1Mbps

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-02-09
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11g (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
2400.000	51.92	-5.70	46.22	74.00	-27.78	PEAK
2400.000	28.42	-5.70	22.72	54.00	-31.28	AVERAGE
***4824.000**	**56.98**	**5.08**	**62.06**	**74.00**	**-11.94**	**PEAK**
4824.000	36.78	5.08	41.86	54.00	-12.14	AVERAGE
7236.000	54.64	7.16	61.80	74.00	-12.20	PEAK
7236.000	32.24	7.16	39.40	54.00	-14.60	AVERAGE
9648.000	49.53	10.82	60.35	74.00	-13.65	PEAK
9648.000	29.47	10.82	40.29	54.00	-13.71	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.000	52.45	-5.70	46.75	74.00	-27.25	PEAK
2400.000	29.15	-5.70	23.45	54.00	-30.55	AVERAGE
***4824.000**	**57.62**	**5.08**	**62.70**	**74.00**	**-11.30**	**PEAK**
4824.000	35.68	5.08	40.76	54.00	-13.24	AVERAGE
7236.000	55.34	7.16	62.50	74.00	-11.50	PEAK
7236.000	34.65	7.16	41.81	54.00	-12.19	AVERAGE
9648.000	50.11	10.82	60.93	74.00	-13.07	PEAK
9648.000	27.69	10.82	38.51	54.00	-15.49	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 01: 2412 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
***4884.000**	**59.31**	**5.14**	**64.45**	**74.00**	**-9.55**	**PEAK**
4884.000	37.52	5.14	42.66	54.00	-11.34	AVERAGE
7326.000	53.08	7.55	60.63	74.00	-13.37	PEAK
7326.000	31.05	7.55	38.60	54.00	-15.40	AVERAGE
9768.000	46.55	11.40	57.95	74.00	-16.05	PEAK
9768.000	24.64	11.40	36.04	54.00	-17.96	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.000**	**59.38**	**5.14**	**64.52**	**74.00**	**-9.48**	**PEAK**
4884.000	38.30	5.14	43.44	54.00	-10.56	AVERAGE
7326.000	52.86	7.55	60.41	74.00	-13.59	PEAK
7326.000	30.72	7.55	38.27	54.00	-15.73	AVERAGE
9768.000	45.79	11.40	57.19	74.00	-16.81	PEAK
9768.000	25.15	11.40	36.55	54.00	-17.45	AVERAGE

Note: '*' means the worst case
Measurement Level = Reading Level + Factor
Factor=Ant Factor + Cable Loss
Middle Channel 07: 2442 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
2483.500	52.43	-4.98	47.45	74.00	-26.55	PEAK
2483.500	33.62	-4.98	28.64	54.00	-25.36	AVERAGE
***4924.000**	**58.12**	**5.18**	**63.30**	**74.00**	**-10.70**	**PEAK**
4924.000	37.51	5.18	42.69	54.00	-11.31	AVERAGE
7386.000	52.45	7.82	60.27	74.00	-13.73	PEAK
7386.000	31.58	7.82	39.40	54.00	-14.60	AVERAGE
9848.000	44.17	11.79	55.96	74.00	-18.04	PEAK
9848.000	22.03	11.79	33.82	54.00	-20.18	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	51.75	-4.98	46.77	74.00	-27.23	PEAK
2483.500	30.65	-4.98	25.67	54.00	-28.33	AVERAGE
***4924.000**	**58.90**	**5.18**	**64.08**	**74.00**	**-9.92**	**PEAK**
4924.000	36.88	5.18	42.06	54.00	-11.94	AVERAGE
7386.000	51.66	7.82	59.48	74.00	-14.52	PEAK
7386.000	30.67	7.82	38.49	54.00	-15.51	AVERAGE
9848.000	44.97	11.79	56.76	74.00	-17.24	PEAK
9848.000	23.73	11.79	35.52	54.00	-18.48	AVERAGE

Note: '*' means the worst case
Measurement Level = Reading Level + Factor
Factor=Ant Factor + Cable Loss
High Channel 11: 2462 MHz
Data rate: 6Mbps

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-02-09
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11n(20M) (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
2400.000	50.74	-5.70	45.04	74.00	-28.96	PEAK
2400.000	30.41	-5.70	24.71	54.00	-29.29	AVERAGE
4824.000	57.68	5.08	62.76	74.00	-11.24	PEAK
4824.000	37.12	5.08	42.20	54.00	-11.80	AVERAGE
***7236.000**	**56.11**	**7.16**	**63.27**	**74.00**	**-10.73**	**PEAK**
7236.000	35.25	7.16	42.41	54.00	-11.59	AVERAGE
9648.000	48.56	10.82	59.38	74.00	-14.62	PEAK
9648.000	27.25	10.82	38.07	54.00	-15.93	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.000	51.42	-5.70	45.72	74.00	-28.28	PEAK
2400.000	31.75	-5.70	26.05	54.00	-27.95	AVERAGE
4824.000	56.93	5.08	62.01	74.00	-11.99	PEAK
4824.000	36.26	5.08	41.34	54.00	-12.66	AVERAGE
***7236.000**	**55.14**	**7.16**	**62.30**	**74.00**	**-11.70**	**PEAK**
7236.000	33.58	7.16	40.74	54.00	-13.26	AVERAGE
9648.000	49.67	10.82	60.49	74.00	-13.51	PEAK
9648.000	27.85	10.82	38.67	54.00	-15.33	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 01: 2412 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
***4884.000**	**59.32**	**5.14**	**64.46**	**74.00**	**-9.54**	**PEAK**
4884.000	38.19	5.14	43.33	54.00	-10.67	AVERAGE
7326.000	53.48	7.55	61.03	74.00	-12.97	PEAK
7326.000	32.39	7.55	39.94	54.00	-14.06	AVERAGE
9768.000	47.98	11.40	59.38	74.00	-14.62	PEAK
9768.000	27.11	11.40	38.51	54.00	-15.49	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.000**	**60.96**	**5.14**	**66.10**	**74.00**	**-7.90**	**PEAK**
4884.000	40.52	5.14	45.66	54.00	-8.34	AVERAGE
7326.000	52.54	7.55	60.09	74.00	-13.91	PEAK
7326.000	32.09	7.55	39.64	54.00	-14.36	AVERAGE
9768.000	46.95	11.40	58.35	74.00	-15.65	PEAK
9768.000	24.76	11.40	36.16	54.00	-17.84	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 07: 2442 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
2483.500	52.65	-4.98	47.67	74.00	-26.33	PEAK
2483.500	31.83	-4.98	26.85	54.00	-27.15	AVERAGE
***4924.000**	**57.22**	**5.18**	**62.40**	**74.00**	**-11.60**	**PEAK**
4924.000	36.31	5.18	41.49	54.00	-12.51	AVERAGE
7386.000	51.25	7.82	59.07	74.00	-14.93	PEAK
7386.000	30.58	7.82	38.40	54.00	-15.60	AVERAGE
9848.000	46.65	11.79	58.44	74.00	-15.56	PEAK
9848.000	24.87	11.79	36.66	54.00	-17.34	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	52.87	-4.98	47.89	74.00	-26.11	PEAK
2483.500	31.96	-4.98	26.98	54.00	-27.02	AVERAGE
***4924.000**	**59.93**	**5.18**	**65.11**	**74.00**	**-8.89**	**PEAK**
4924.000	38.68	5.18	43.86	54.00	-10.14	AVERAGE
7386.000	54.60	7.82	62.42	74.00	-11.58	PEAK
7386.000	33.27	7.82	41.09	54.00	-12.91	AVERAGE
9848.000	45.77	11.79	57.56	74.00	-16.44	PEAK
9848.000	23.89	11.79	35.68	54.00	-18.32	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 11: 2462 MHz

Data rate: 7.2Mbps

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-02-09
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11n(40M) (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
2400.000	51.85	-5.70	46.15	74.00	-27.85	PEAK
2400.000	31.44	-5.70	25.74	54.00	-28.26	AVERAGE
***4844.000**	**56.81**	**5.11**	**61.92**	**74.00**	**-12.08**	**PEAK**
4844.000	35.58	5.11	40.69	54.00	-13.31	AVERAGE
7266.000	52.17	7.29	59.46	74.00	-14.54	PEAK
7266.000	31.20	7.29	38.49	54.00	-15.51	AVERAGE
9688.000	45.57	11.02	56.59	74.00	-17.41	PEAK
9688.000	23.34	11.02	34.36	54.00	-19.64	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.000	52.71	-5.70	47.01	74.00	-26.99	PEAK
2400.000	32.10	-5.70	26.40	54.00	-27.60	AVERAGE
***4844.000**	**56.78**	**5.11**	**61.89**	**74.00**	**-12.11**	**PEAK**
4844.000	36.22	5.11	41.33	54.00	-12.67	AVERAGE
7266.000	51.62	7.29	58.91	74.00	-15.09	PEAK
7266.000	29.24	7.29	36.53	54.00	-17.47	AVERAGE
9688.000	44.78	11.02	55.80	74.00	-18.20	PEAK
9688.000	24.65	11.02	35.67	54.00	-18.33	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 03: 2422 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
***4884.000**	**57.53**	**5.14**	**62.67**	**74.00**	**-11.33**	**PEAK**
4884.000	35.64	5.14	40.78	54.00	-13.22	AVERAGE
7326.000	51.74	7.55	59.29	74.00	-14.71	PEAK
7326.000	30.86	7.55	38.41	54.00	-15.59	AVERAGE
9768.000	44.65	11.40	56.05	74.00	-17.95	PEAK
9768.000	23.65	11.40	35.05	54.00	-18.95	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.000**	**55.78**	**5.14**	**60.92**	**74.00**	**-13.08**	**PEAK**
4884.000	34.5	5.14	39.64	54.00	-14.36	AVERAGE
7326.000	50.79	7.55	58.34	74.00	-15.66	PEAK
7326.000	29.25	7.55	36.8	54.00	-17.20	AVERAGE
9768.000	42.48	11.40	53.88	74.00	-20.12	PEAK
9768.000	20.75	11.4	32.15	54.00	-21.85	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 07: 2442 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
2483.500	51.68	-4.98	46.70	74.00	-27.30	PEAK
2483.500	32.64	-4.98	27.66	54.00	-26.34	AVERAGE
***4904.000**	**53.19**	**5.16**	**58.35**	**74.00**	**-15.65**	**PEAK**
4904.000	32.26	5.16	37.42	54.00	-16.58	AVERAGE
7356.000	47.38	7.69	55.07	74.00	-18.93	PEAK
7356.000	26.95	7.69	34.64	54.00	-19.36	AVERAGE
9808.000	41.36	11.60	52.96	74.00	-21.04	PEAK
9808.000	20.92	11.60	32.52	54.00	-21.48	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	51.38	-4.98	46.40	74.00	-27.60	PEAK
2483.500	31.95	-4.98	26.97	54.00	-27.03	AVERAGE
***4904.000**	**54.19**	**5.16**	**59.35**	**74.00**	**-14.65**	**PEAK**
4904.000	33.75	5.16	38.91	54.00	-15.09	AVERAGE
7356.000	48.53	7.69	56.22	74.00	-17.78	PEAK
7356.000	25.96	7.69	33.65	54.00	-20.35	AVERAGE
9808.000	40.57	11.60	52.17	74.00	-21.83	PEAK
9808.000	19.96	11.60	31.56	54.00	-22.44	AVERAGE

Note: '*' means the worst case
Measurement Level = Reading Level + Factor
Factor=Ant Factor + Cable Loss
High Channel 09: 2452 MHz
Data rate: 7.2Mbps

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-02-09
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11a(5.725-5.850G) (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
5725.000	46.42	3.95	50.37	74.00	-23.63	PEAK
5725.000	25.40	3.95	29.35	54.00	-24.65	AVERAGE
***11490.000**	**47.60**	**16.82**	**64.42**	**74.00**	**-9.58**	**PEAK**
11490.000	27.16	16.82	43.98	54.00	-10.02	AVERAGE
17235.000	46.89	22.93	69.82	74.00	-4.18	PEAK
17235.000	27.47	22.93	50.40	54.00	-3.60	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
5725.000	45.02	3.95	48.97	74.00	-25.03	PEAK
5725.000	25.12	3.95	29.07	54.00	-24.93	AVERAGE
***11490.000**	**47.25**	**16.82**	**64.07**	**74.00**	**-9.93**	**PEAK**
11490.000	27.00	16.82	43.82	54.00	-10.18	AVERAGE
17235.000	46.12	22.93	69.05	74.00	-4.95	PEAK
17235.000	27.67	22.93	50.60	54.00	-3.40	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 149: 5745 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
***11570.000**	**46.96**	**16.71**	**63.67**	**74.00**	**-10.33**	**PEAK**
11570.000	26.12	16.71	42.83	54.00	-11.17	AVERAGE
17355.000	46.12	24.37	70.49	74.00	-3.51	PEAK
17355.000	25.78	24.37	50.15	54.00	-3.85	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***11570.000**	**47.51**	**16.71**	**64.22**	**74.00**	**-9.78**	**PEAK**
11570.000	27.42	16.71	44.13	54.00	-9.87	AVERAGE
17355.000	45.67	24.37	70.04	74.00	-3.96	PEAK
17355.000	24.99	24.37	49.36	54.00	-4.64	AVERAGE

Note: '*' means the worst case
Measurement Level = Reading Level + Factor
Factor=Ant Factor + Cable Loss
Middle Channel 157: 5785 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
5850.000	48.74	3.96	52.70	74.00	-21.30	PEAK
5850.000	26.67	3.96	30.63	54.00	-23.37	AVERAGE
***11610.000**	**46.50**	**16.66**	**63.16**	**74.00**	**-10.84**	**PEAK**
11610.000	26.40	16.66	43.06	54.00	-10.94	AVERAGE
17415.000	44.86	24.93	69.79	74.00	-4.21	PEAK
17415.000	24.02	24.93	48.95	54.00	-5.05	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
5850.000	46.29	3.96	50.25	74.00	-23.75	PEAK
5850.000	26.82	3.96	30.78	54.00	-23.22	AVERAGE
***11610.000**	**47.21**	**16.66**	**63.87**	**74.00**	**-10.13**	**PEAK**
11610.000	26.56	16.66	43.22	54.00	-10.78	AVERAGE
17415.000	45.28	24.93	70.21	74.00	-3.79	PEAK
17415.000	25.63	24.93	50.56	54.00	-3.44	AVERAGE

Note: '*' means the worst case
Measurement Level = Reading Level + Factor
Factor=Ant Factor + Cable Loss
High Channel 161: 5805 MHz
Data rate: 6Mbps

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-02-09
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11b (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
2400.000	51.65	-5.70	45.95	74.00	-28.05	PEAK
2400.000	30.72	-5.70	25.02	54.00	-28.98	AVERAGE
***4824.000**	**60.25**	**5.08**	**65.33**	**74.00**	**-8.67**	**PEAK**
4824.000	39.72	5.08	44.80	54.00	-9.20	AVERAGE
7236.000	52.93	7.16	60.09	74.00	-13.91	PEAK
7236.000	32.47	7.16	39.63	54.00	-14.37	AVERAGE
9648.000	46.69	10.82	57.51	74.00	-16.49	PEAK
9648.000	25.74	10.82	36.56	54.00	-17.44	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.000	52.18	-5.70	46.48	74.00	-27.52	PEAK
2400.000	30.25	-5.70	24.55	54.00	-29.45	AVERAGE
***4824.000**	**57.88**	**5.08**	**62.96**	**74.00**	**-11.04**	**PEAK**
4824.000	37.35	5.08	42.43	54.00	-11.57	AVERAGE
7236.000	54.51	7.16	61.67	74.00	-12.33	PEAK
7236.000	33.63	7.16	40.79	54.00	-13.21	AVERAGE
9648.000	48.57	10.82	59.39	74.00	-14.61	PEAK
9648.000	28.11	10.82	38.93	54.00	-15.07	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 01: 2412 MHz

Data rate: 1Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.000**	**59.63**	**5.14**	**64.77**	**74.00**	**-9.23**	**PEAK**
4884.000	38.19	5.14	43.33	54.00	-10.67	AVERAGE
7326.000	53.54	7.55	61.09	74.00	-12.91	PEAK
7326.000	32.49	7.55	40.04	54.00	-13.96	AVERAGE
9768.000	45.79	11.40	57.19	74.00	-16.81	PEAK
9768.000	25.20	11.40	36.60	54.00	-17.40	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.000**	**60.91**	**5.14**	**66.05**	**74.00**	**-7.95**	**PEAK**
4884.000	40.56	5.14	45.7	54.00	-8.30	AVERAGE
7326.000	53.94	7.55	61.49	74.00	-12.51	PEAK
7326.000	32.24	7.55	39.79	54.00	-14.21	AVERAGE
9768.000	45.80	11.40	57.20	74.00	-16.80	PEAK
9768.000	23.68	11.40	35.08	54.00	-18.92	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 07: 2442 MHz

Data rate: 1Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	51.19	-4.98	46.21	74.00	-27.79	PEAK
2483.500	32.58	-4.98	27.60	54.00	-26.40	AVERAGE
***4924.000**	**59.56**	**5.18**	**64.74**	**74.00**	**-9.26**	**PEAK**
4924.000	37.66	5.18	42.84	54.00	-11.16	AVERAGE
7386.000	55.35	7.82	63.17	74.00	-10.83	PEAK
7386.000	34.57	7.82	42.39	54.00	-11.61	AVERAGE
9848.000	45.28	11.79	57.07	74.00	-16.93	PEAK
9848.000	24.38	11.79	36.17	54.00	-17.83	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	51.15	-4.98	46.17	74.00	-27.83	PEAK
2483.500	31.64	-4.98	26.66	54.00	-27.34	AVERAGE
***4924.000**	**58.49**	**5.18**	**63.67**	**74.00**	**-10.33**	**PEAK**
4924.000	36.55	5.18	41.73	54.00	-12.27	AVERAGE
7386.000	54.16	7.82	61.98	74.00	-12.02	PEAK
7386.000	33.12	7.82	40.94	54.00	-13.06	AVERAGE
9848.000	46.63	11.79	58.42	74.00	-15.58	PEAK
9848.000	25.33	11.79	37.12	54.00	-16.88	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 11: 2462 MHz

Data rate: 1Mbps

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-02-09
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11g (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
2400.000	50.74	-5.70	45.04	74.00	-28.96	PEAK
2400.000	31.19	-5.70	25.49	54.00	-28.51	AVERAGE
***4824.000**	**57.78**	**5.08**	**62.86**	**74.00**	**-11.14**	**PEAK**
4824.000	35.88	5.08	40.96	54.00	-13.04	AVERAGE
7236.000	52.98	7.16	60.14	74.00	-13.86	PEAK
7236.000	32.71	7.16	39.87	54.00	-14.13	AVERAGE
9648.000	48.33	10.82	59.15	74.00	-14.85	PEAK
9648.000	27.84	10.82	38.66	54.00	-15.34	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.000	52.35	-5.70	46.65	74.00	-27.35	PEAK
2400.000	32.04	-5.70	26.34	54.00	-27.66	AVERAGE
***4824.000**	**57.94**	**5.08**	**63.02**	**74.00**	**-10.98**	**PEAK**
4824.000	37.06	5.08	42.14	54.00	-11.86	AVERAGE
7236.000	54.21	7.16	61.37	74.00	-12.63	PEAK
7236.000	34.75	7.16	41.91	54.00	-12.09	AVERAGE
9648.000	48.36	10.82	59.18	74.00	-14.82	PEAK
9648.000	28.18	10.82	39.00	54.00	-15.00	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 01: 2412 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
***4884.000**	**58.27**	**5.14**	**63.41**	**74.00**	**-10.59**	**PEAK**
4884.000	36.24	5.14	41.38	54.00	-12.62	AVERAGE
7326.000	51.26	7.55	58.81	74.00	-15.19	PEAK
7326.000	30.61	7.55	38.16	54.00	-15.84	AVERAGE
9768.000	45.03	11.40	56.43	74.00	-17.57	PEAK
9768.000	22.74	11.40	34.14	54.00	-19.86	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.000**	**60.30**	**5.14**	**65.44**	**74.00**	**-8.56**	**PEAK**
4884.000	40.28	5.14	45.42	54.00	-8.58	AVERAGE
7326.000	54.42	7.55	61.97	74.00	-12.03	PEAK
7326.000	33.18	7.55	40.73	54.00	-13.27	AVERAGE
9768.000	45.10	11.40	56.50	74.00	-17.50	PEAK
9768.000	23.94	11.40	35.34	54.00	-18.66	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 07: 2442 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
2483.500	52.49	-4.98	47.51	74.00	-26.49	PEAK
2483.500	31.28	-4.98	26.30	54.00	-27.70	AVERAGE
***4924.000**	**58.65**	**5.18**	**63.83**	**74.00**	**-10.17**	**PEAK**
4924.000	37.69	5.18	42.87	54.00	-11.13	AVERAGE
7386.000	52.93	7.82	60.75	74.00	-13.25	PEAK
7386.000	31.18	7.82	39.00	54.00	-15.00	AVERAGE
9848.000	44.65	11.79	56.44	74.00	-17.56	PEAK
9848.000	22.29	11.79	34.08	54.00	-19.92	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	53.30	-4.98	48.32	74.00	-25.68	PEAK
2483.500	33.26	-4.98	28.28	54.00	-25.72	AVERAGE
***4924.000**	**58.56**	**5.18**	**63.74**	**74.00**	**-10.26**	**PEAK**
4924.000	36.44	5.18	41.62	54.00	-12.38	AVERAGE
7386.000	51.55	7.82	59.37	74.00	-14.63	PEAK
7386.000	30.68	7.82	38.50	54.00	-15.50	AVERAGE
9848.000	44.86	11.79	56.65	74.00	-17.35	PEAK
9848.000	23.39	11.79	35.18	54.00	-18.82	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 11: 2462MHz

Data rate: 6Mbps

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-02-09
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11n(20M) (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
2400.000	51.63	-5.70	45.93	74.00	-28.07	PEAK
2400.000	32.42	-5.70	26.72	54.00	-27.28	AVERAGE
***4824.000**	**58.67**	**5.08**	**63.75**	**74.00**	**-10.25**	**PEAK**
4824.000	36.39	5.08	41.47	54.00	-12.53	AVERAGE
7236.000	54.36	7.16	61.52	74.00	-12.48	PEAK
7236.000	32.87	7.16	40.03	54.00	-13.97	AVERAGE
9648.000	47.22	10.82	58.04	74.00	-15.96	PEAK
9648.000	26.81	10.82	37.63	54.00	-16.37	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.000	51.35	-5.70	45.65	74.00	-28.35	PEAK
2400.000	30.12	-5.70	24.42	54.00	-29.58	AVERAGE
***4824.000**	**57.11**	**5.08**	**62.19**	**74.00**	**-11.81**	**PEAK**
4824.000	36.23	5.08	41.31	54.00	-12.69	AVERAGE
7236.000	54.82	7.16	61.98	74.00	-12.02	PEAK
7236.000	33.91	7.16	41.07	54.00	-12.93	AVERAGE
9648.000	47.63	10.82	58.45	74.00	-15.55	PEAK
9648.000	25.68	10.82	36.50	54.00	-17.50	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 01: 2412 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
***4884.000**	**60.71**	**5.14**	**65.85**	**74.00**	**-8.15**	**PEAK**
4884.000	40.63	5.14	45.77	54.00	-8.23	AVERAGE
7326.000	53.93	7.55	61.48	74.00	-12.52	PEAK
7326.000	33.25	7.55	40.80	54.00	-13.20	AVERAGE
9768.000	46.67	11.40	58.07	74.00	-15.93	PEAK
9768.000	25.78	11.40	37.18	54.00	-16.82	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.000**	**60.90**	**5.14**	**66.04**	**74.00**	**-7.96**	**PEAK**
4884.000	40.19	5.14	45.33	54.00	-8.67	AVERAGE
7326.000	52.28	7.55	59.83	74.00	-14.17	PEAK
7326.000	30.96	7.55	38.51	54.00	-15.49	AVERAGE
9768.000	44.40	11.40	55.80	74.00	-18.20	PEAK
9768.000	22.74	11.40	34.14	54.00	-19.86	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 07: 2442 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
2483.500	53.28	-4.98	48.30	74.00	-25.70	PEAK
2483.500	31.28	-4.98	26.30	54.00	-27.70	AVERAGE
***4924.000**	**57.98**	**5.18**	**63.16**	**74.00**	**-10.84**	**PEAK**
4924.000	36.50	5.18	41.68	54.00	-12.32	AVERAGE
7386.000	51.65	7.82	59.47	74.00	-14.53	PEAK
7386.000	30.98	7.82	38.80	54.00	-15.20	AVERAGE
9848.000	46.19	11.79	57.98	74.00	-16.02	PEAK
9848.000	23.30	11.79	35.09	54.00	-18.91	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	52.46	-4.98	47.48	74.00	-26.52	PEAK
2483.500	32.35	-4.98	27.37	54.00	-26.63	AVERAGE
***4924.000**	**59.76**	**5.18**	**64.94**	**74.00**	**-9.06**	**PEAK**
4924.000	38.35	5.18	43.53	54.00	-10.47	AVERAGE
7386.000	54.91	7.82	62.73	74.00	-11.27	PEAK
7386.000	33.67	7.82	41.49	54.00	-12.51	AVERAGE
9848.000	45.57	11.79	57.36	74.00	-16.64	PEAK
9848.000	23.66	11.79	35.45	54.00	-18.55	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 11: 2462 MHz

Data rate: 7.2Mbps

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-02-09
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11n(40M) (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
2400.000	51.42	-5.70	45.72	74.00	-28.28	PEAK
2400.000	30.35	-5.70	24.65	54.00	-29.35	AVERAGE
***4844.000**	**57.42**	**5.11**	**62.53**	**74.00**	**-11.47**	**PEAK**
4844.000	35.18	5.11	40.29	54.00	-13.71	AVERAGE
7266.000	51.62	7.29	58.91	74.00	-15.09	PEAK
7266.000	30.85	7.29	38.14	54.00	-15.86	AVERAGE
9688.000	43.45	11.02	54.47	74.00	-19.53	PEAK
9688.000	22.74	11.02	33.76	54.00	-20.24	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.000	50.12	-5.70	44.42	74.00	-29.58	PEAK
2400.000	30.75	-5.70	25.05	54.00	-28.95	AVERAGE
***4844.000**	**56.54**	**5.11**	**61.65**	**74.00**	**-12.35**	**PEAK**
4844.000	35.18	5.11	40.29	54.00	-13.71	AVERAGE
7266.000	50.72	7.29	58.01	74.00	-15.99	PEAK
7266.000	29.84	7.29	37.13	54.00	-16.87	AVERAGE
9688.000	43.78	11.02	54.80	74.00	-19.20	PEAK
9688.000	21.42	11.02	32.44	54.00	-21.56	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 03: 2422 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
***4884.000**	**56.17**	**5.14**	**61.31**	**74.00**	**-12.69**	**PEAK**
4844.000	34.21	5.11	39.32	54.00	-14.68	AVERAGE
7326.000	50.41	7.55	57.96	74.00	-16.04	PEAK
7266.000	29.84	7.29	37.13	54.00	-16.87	AVERAGE
9768.000	43.28	11.40	54.68	74.00	-19.32	PEAK
9688.000	21.29	11.02	32.31	54.00	-21.69	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.000**	**57.38**	**5.14**	**62.52**	**74.00**	**-11.48**	**PEAK**
4844.000	36.71	5.11	41.82	54.00	-12.18	AVERAGE
7326.000	49.38	7.55	56.93	74.00	-17.07	PEAK
7266.000	28.36	7.29	35.65	54.00	-18.35	AVERAGE
9768.000	44.84	11.40	56.24	74.00	-17.76	PEAK
9688.000	22.37	11.02	33.39	54.00	-20.61	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 07: 2442 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
2483.500	51.65	-4.98	46.67	74.00	-27.33	PEAK
2483.500	33.14	-4.98	28.16	54.00	-25.84	AVERAGE
***4904.000**	**52.51**	**5.16**	**57.67**	**74.00**	**-16.33**	**PEAK**
4904.000	31.64	5.16	36.80	54.00	-17.20	AVERAGE
7356.000	47.96	7.69	55.65	74.00	-18.35	PEAK
7356.000	25.61	7.69	33.30	54.00	-20.70	AVERAGE
9808.000	42.31	11.60	53.91	74.00	-20.09	PEAK
9808.000	21.72	11.60	33.32	54.00	-20.68	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	52.75	-4.98	47.77	74.00	-26.23	PEAK
2483.500	33.41	-4.98	28.43	54.00	-25.57	AVERAGE
***4904.000**	**53.25**	**5.16**	**58.41**	**74.00**	**-15.59**	**PEAK**
4904.000	32.58	5.16	37.74	54.00	-16.26	AVERAGE
7356.000	48.05	7.69	55.74	74.00	-18.26	PEAK
7356.000	26.28	7.69	33.97	54.00	-20.03	AVERAGE
9808.000	41.91	11.60	53.51	74.00	-20.49	PEAK
9808.000	20.58	11.60	32.18	54.00	-21.82	AVERAGE

Note: '*' means the worst case
Measurement Level = Reading Level + Factor
Factor=Ant Factor + Cable Loss
High Channel 09: 2452 MHz
Data rate: 7.2Mbps

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-02-09
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11a(5.725-5.850G) (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
5725.000	46.11	3.95	50.06	74.00	-23.94	PEAK
5725.000	26.41	3.95	30.36	54.00	-23.64	AVERAGE
11490.000	45.88	16.82	62.70	74.00	-11.30	PEAK
11490.000	25.00	16.82	41.82	54.00	-12.18	AVERAGE
17235.000	46.12	22.93	69.05	74.00	-4.95	PEAK
***17235.000**	**27.42**	**22.93**	**50.35**	**54.00**	**-3.65**	**AVERAGE**

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
5725.000	45.28	3.95	49.23	74.00	-24.77	PEAK
5725.000	26.21	3.95	30.16	54.00	-23.84	AVERAGE
11490.000	44.99	16.82	61.81	74.00	-12.19	PEAK
11490.000	24.39	16.82	41.21	54.00	-12.79	AVERAGE
***17235.000**	**47.65**	**22.93**	**70.58**	**74.00**	**-3.42**	**PEAK**
17235.000	26.71	22.93	49.64	54.00	-4.36	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 149: 5745 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
***11570.000**	**44.52**	**16.71**	**61.23**	**74.00**	**-12.77**	**PEAK**
11570.000	23.61	16.71	40.32	54.00	-13.68	AVERAGE
17355.000	44.58	24.37	68.95	74.00	-5.05	PEAK
17355.000	25.60	24.37	49.97	54.00	-4.03	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***11570.000**	**48.42**	**16.71**	**65.13**	**74.00**	**-8.87**	**PEAK**
11570.000	28.00	16.71	44.71	54.00	-9.29	AVERAGE
17355.000	45.76	24.37	70.13	74.00	-3.87	PEAK
17355.000	25.74	24.37	50.11	54.00	-3.89	AVERAGE

Note: '*' means the worst case
Measurement Level = Reading Level + Factor
Factor=Ant Factor + Cable Loss
Middle Channel 157: 5785 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
5850.000	47.18	3.96	51.14	74.00	-22.86	PEAK
5850.000	25.86	3.96	29.82	54.00	-24.18	AVERAGE
***11610.000**	**47.88**	**16.66**	**64.54**	**74.00**	**-9.46**	**PEAK**
11610.000	27.20	16.66	43.86	54.00	-10.14	AVERAGE
17415.000	45.30	24.93	70.23	74.00	-3.77	PEAK
17415.000	24.51	24.93	49.44	54.00	-4.56	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
5850.000	47.86	3.96	51.82	74.00	-22.18	PEAK
5850.000	26.12	3.96	30.08	54.00	-23.92	AVERAGE
***11610.000**	**45.78**	**16.66**	**62.44**	**74.00**	**-11.56**	**PEAK**
11610.000	25.25	16.66	41.91	54.00	-12.09	AVERAGE
17415.000	46.01	24.93	70.94	74.00	-3.06	PEAK
17415.000	24.28	24.93	49.21	54.00	-4.79	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 161: 5805 MHz

Data rate: 6Mbps

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-03-29
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11b (ANT1+ANT 2)	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
2400.000	54.13	-5.70	48.43	74.00	-25.57	PEAK
2400.000	33.96	-5.70	28.26	54.00	-25.74	AVERAGE
***4824.000**	**60.35**	**5.08**	**65.43**	**74.00**	**-8.57**	**PEAK**
4824.000	38.65	5.08	43.73	54.00	-10.27	AVERAGE
7236.000	55.38	7.16	62.54	74.00	-11.46	PEAK
7236.000	34.89	7.16	42.05	54.00	-11.95	AVERAGE
9648.000	50.14	10.82	60.96	74.00	-13.04	PEAK
9648.000	28.18	10.82	39.00	54.00	-15.00	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.000	54.01	-5.70	48.31	74.00	-25.69	PEAK
2400.000	32.58	-5.70	26.88	54.00	-27.12	AVERAGE
4824.000	59.38	5.08	64.46	74.00	-9.54	PEAK
4824.000	39.35	5.08	44.43	54.00	-9.57	AVERAGE
***7236.000**	**58.85**	**7.16**	**66.01**	**74.00**	**-7.99**	**PEAK**
7236.000	37.42	7.16	44.58	54.00	-9.42	AVERAGE
9648.000	52.36	10.82	63.18	74.00	-10.82	PEAK
9648.000	30.15	10.82	40.97	54.00	-13.03	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 01: 2412 MHz

Data rate: 1Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.000**	**62.26**	**5.14**	**67.40**	**74.00**	**-6.60**	**PEAK**
4884.000	41.18	5.14	46.32	54.00	-7.68	AVERAGE
7326.000	52.51	7.55	60.06	74.00	-13.94	PEAK
7326.000	32.56	7.55	40.11	54.00	-13.89	AVERAGE
9768.000	46.53	11.40	57.93	74.00	-16.07	PEAK
9768.000	24.46	11.40	35.86	54.00	-18.14	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.000**	**63.15**	**5.14**	**68.29**	**74.00**	**-5.71**	**PEAK**
4884.000	42.36	5.14	47.50	54.00	-6.50	AVERAGE
7326.000	56.43	7.55	63.98	74.00	-10.02	PEAK
7326.000	30.65	7.55	38.20	54.00	-15.80	AVERAGE
9768.000	48.44	11.40	59.84	74.00	-14.16	PEAK
9768.000	26.88	11.40	38.28	54.00	-15.72	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 07: 2442 MHz

Data rate: 1Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	56.30	-4.98	51.32	74.00	-22.68	PEAK
2483.500	34.32	-4.98	29.34	54.00	-24.66	AVERAGE
***4924.000**	**61.45**	**5.18**	**66.63**	**74.00**	**-7.37**	**PEAK**
4924.000	39.43	5.18	44.61	54.00	-9.39	AVERAGE
7386.000	57.38	7.82	65.20	74.00	-8.80	PEAK
7386.000	36.63	7.82	44.45	54.00	-9.55	AVERAGE
9848.000	47.78	11.79	59.57	74.00	-14.43	PEAK
9848.000	26.32	11.79	38.11	54.00	-15.89	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	54.83	-4.98	49.85	74.00	-24.15	PEAK
2483.500	33.88	-4.98	28.90	54.00	-25.10	AVERAGE
***4924.000**	**60.95**	**5.18**	**66.13**	**74.00**	**-7.87**	**PEAK**
4924.000	38.86	5.18	44.04	54.00	-9.96	AVERAGE
7386.000	56.74	7.82	64.56	74.00	-9.44	PEAK
7386.000	36.55	7.82	44.37	54.00	-9.63	AVERAGE
9848.000	48.77	11.79	60.56	74.00	-13.44	PEAK
9848.000	27.68	11.79	39.47	54.00	-14.53	AVERAGE

Note: '*' means the worst case
Measurement Level = Reading Level + Factor
Factor=Ant Factor + Cable Loss
High Channel 11: 2462 MHz
Data rate: 1Mbps

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-03-29
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11g (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
2400.0000	54.00	-5.70	48.30	74.00	-25.70	PEAK
2400.0000	30.56	-5.70	24.86	54.00	-29.14	AVERAGE
***4824.0000**	**59.12**	**5.08**	**64.20**	**74.00**	**-9.80**	**PEAK**
4824.0000	38.93	5.08	44.01	54.00	-9.99	AVERAGE
7236.0000	56.53	7.16	63.69	74.00	-10.31	PEAK
7236.0000	34.34	7.16	41.50	54.00	-12.50	AVERAGE
9648.0000	51.46	10.82	62.28	74.00	-11.72	PEAK
9648.0000	31.80	10.82	42.62	54.00	-11.38	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.0000	53.98	-5.70	48.28	74.00	-25.72	PEAK
2400.0000	30.86	-5.70	25.16	54.00	-28.84	AVERAGE
***4824.0000**	**59.74**	**5.08**	**64.82**	**74.00**	**-9.18**	**PEAK**
4824.0000	37.49	5.08	42.57	54.00	-11.43	AVERAGE
7236.0000	57.48	7.16	64.64	74.00	-9.36	PEAK
7236.0000	36.69	7.16	43.85	54.00	-10.15	AVERAGE
9648.0000	52.32	10.82	63.14	74.00	-10.86	PEAK
9648.0000	30.78	10.82	41.60	54.00	-12.40	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 01: 2412 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
***4884.0000**	**61.40**	**5.14**	**66.54**	**74.00**	**-7.46**	**PEAK**
4884.0000	39.48	5.14	44.62	54.00	-9.38	AVERAGE
7326.0000	55.16	7.55	62.71	74.00	-11.29	PEAK
7326.0000	33.26	7.55	40.81	54.00	-13.19	AVERAGE
9768.0000	48.56	11.40	59.96	74.00	-14.04	PEAK
9768.0000	26.85	11.40	38.25	54.00	-15.75	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.0000**	**61.58**	**5.14**	**66.72**	**74.00**	**-7.28**	**PEAK**
4884.0000	40.32	5.14	45.46	54.00	-8.54	AVERAGE
7326.0000	54.80	7.55	62.35	74.00	-11.65	PEAK
7326.0000	32.69	7.55	40.24	54.00	-13.76	AVERAGE
9768.0000	47.92	11.40	59.32	74.00	-14.68	PEAK
9768.0000	27.36	11.40	38.76	54.00	-15.24	AVERAGE

Note: '*' means the worst case
Measurement Level = Reading Level + Factor
Factor=Ant Factor + Cable Loss
Middle Channel 07: 2442 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
2483.500	54.56	-4.98	49.58	74.00	-24.42	PEAK
2483.500	35.68	-4.98	30.70	54.00	-23.30	AVERAGE
***4924.000**	**60.22**	**5.18**	**65.40**	**74.00**	**-8.60**	**PEAK**
4924.000	39.48	5.18	44.66	54.00	-9.34	AVERAGE
7386.000	54.78	7.82	62.60	74.00	-11.40	PEAK
7386.000	34.08	7.82	41.90	54.00	-12.10	AVERAGE
9848.000	46.52	11.79	58.31	74.00	-15.69	PEAK
9848.000	24.83	11.79	36.62	54.00	-17.38	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	53.98	-4.98	49.00	74.00	-25.00	PEAK
2483.500	33.14	-4.98	28.16	54.00	-25.84	AVERAGE
***4924.000**	**60.92**	**5.18**	**66.10**	**74.00**	**-7.90**	**PEAK**
4924.000	39.03	5.18	44.21	54.00	-9.79	AVERAGE
7386.000	53.87	7.82	61.69	74.00	-12.31	PEAK
7386.000	33.02	7.82	40.84	54.00	-13.16	AVERAGE
9848.000	47.36	11.79	59.15	74.00	-14.85	PEAK
9848.000	26.54	11.79	38.33	54.00	-15.67	AVERAGE

Note: '*' means the worst case
Measurement Level = Reading Level + Factor
Factor=Ant Factor + Cable Loss
High Channel 11: 2462 MHz
Data rate: 6Mbps

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-03-29
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11n(20M) (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
2400.000	53.38	-5.70	47.68	74.00	-26.32	PEAK
2400.000	33.05	-5.70	27.35	54.00	-26.65	AVERAGE
4824.000	59.93	5.08	65.01	74.00	-8.99	PEAK
4824.000	39.84	5.08	44.92	54.00	-9.08	AVERAGE
***7236.000**	**58.45**	**7.16**	**65.61**	**74.00**	**-8.39**	**PEAK**
7236.000	37.42	7.16	44.58	54.00	-9.42	AVERAGE
9648.000	50.79	10.82	61.61	74.00	-12.39	PEAK
9648.000	30.08	10.82	40.90	54.00	-13.10	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.000	53.02	-5.70	47.32	74.00	-26.68	PEAK
2400.000	33.23	-5.70	27.53	54.00	-26.47	AVERAGE
4824.000	59.13	5.08	64.21	74.00	-9.79	PEAK
4824.000	38.92	5.08	44.00	54.00	-10.00	AVERAGE
***7236.000**	**57.85**	**7.16**	**65.01**	**74.00**	**-8.99**	**PEAK**
7236.000	35.79	7.16	42.95	54.00	-11.05	AVERAGE
9648.000	51.82	10.82	62.64	74.00	-11.36	PEAK
9648.000	29.94	10.82	40.76	54.00	-13.24	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 01: 2412 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
***4884.000**	**61.48**	**5.14**	**66.62**	**74.00**	**-7.38**	**PEAK**
4884.000	40.32	5.14	45.46	54.00	-8.54	AVERAGE
7326.000	55.57	7.55	63.12	74.00	-10.88	PEAK
7326.000	34.52	7.55	42.07	54.00	-11.93	AVERAGE
9768.000	50.11	11.40	61.51	74.00	-12.49	PEAK
9768.000	29.56	11.40	40.96	54.00	-13.04	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.000**	**62.58**	**5.14**	**67.72**	**74.00**	**-6.28**	**PEAK**
4884.000	42.14	5.14	47.28	54.00	-6.72	AVERAGE
7326.000	54.78	7.55	62.33	74.00	-11.67	PEAK
7326.000	34.28	7.55	41.83	54.00	-12.17	AVERAGE
9768.000	48.92	11.40	60.32	74.00	-13.68	PEAK
9768.000	26.82	11.40	38.22	54.00	-15.78	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 07: 2442 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
2483.500	54.58	-4.98	49.60	74.00	-24.40	PEAK
2483.500	33.82	-4.98	28.84	54.00	-25.16	AVERAGE
***4924.000**	**59.42**	**5.18**	**64.60**	**74.00**	**-9.40**	**PEAK**
4924.000	38.20	5.18	43.38	54.00	-10.62	AVERAGE
7386.000	53.45	7.82	61.27	74.00	-12.73	PEAK
7386.000	32.43	7.82	40.25	54.00	-13.75	AVERAGE
9848.000	48.39	11.79	60.18	74.00	-13.82	PEAK
9848.000	26.92	11.79	38.71	54.00	-15.29	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	54.91	-4.98	49.93	74.00	-24.07	PEAK
2483.500	33.83	-4.98	28.85	54.00	-25.15	AVERAGE
***4924.000**	**62.05**	**5.18**	**67.23**	**74.00**	**-6.77**	**PEAK**
4924.000	40.38	5.18	45.56	54.00	-8.44	AVERAGE
7386.000	56.43	7.82	64.25	74.00	-9.75	PEAK
7386.000	35.42	7.82	43.24	54.00	-10.76	AVERAGE
9848.000	47.49	11.79	59.28	74.00	-14.72	PEAK
9848.000	25.93	11.79	37.72	54.00	-16.28	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 11: 2462 MHz

Data rate: 7.2Mbps

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-03-29
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11n(40M) (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
2400.000	53.69	-5.70	47.99	74.00	-26.01	PEAK
2400.000	32.98	-5.70	27.28	54.00	-26.72	AVERAGE
***4844.000**	**58.32**	**5.11**	**63.43**	**74.00**	**-10.57**	**PEAK**
4844.000	37.62	5.11	42.73	54.00	-11.27	AVERAGE
7266.000	54.20	7.29	61.49	74.00	-12.51	PEAK
7266.000	33.12	7.29	40.41	54.00	-13.59	AVERAGE
9688.000	47.63	11.02	58.65	74.00	-15.35	PEAK
9688.000	25.52	11.02	36.54	54.00	-17.46	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.000	54.93	-5.70	49.23	74.00	-24.77	PEAK
2400.000	34.58	-5.70	28.88	54.00	-25.12	AVERAGE
***4844.000**	**58.86**	**5.11**	**63.97**	**74.00**	**-10.03**	**PEAK**
4844.000	38.04	5.11	43.15	54.00	-10.85	AVERAGE
7266.000	53.46	7.29	60.75	74.00	-13.25	PEAK
7266.000	31.06	7.29	38.35	54.00	-15.65	AVERAGE
9688.000	46.49	11.02	57.51	74.00	-16.49	PEAK
9688.000	26.52	11.02	37.54	54.00	-16.46	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 03: 2422 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
***4884.000**	**59.36**	**5.14**	**64.50**	**74.00**	**-9.50**	**PEAK**
4884.000	37.28	5.14	42.42	54.00	-11.58	AVERAGE
7326.000	53.68	7.55	61.23	74.00	-12.77	PEAK
7326.000	32.74	7.55	40.29	54.00	-13.71	AVERAGE
9768.000	46.72	11.40	58.12	74.00	-15.88	PEAK
9768.000	25.76	11.40	37.16	54.00	-16.84	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
***4884.000**	**57.82**	**5.14**	**62.96**	**74.00**	**-11.04**	**PEAK**
4884.000	36.73	5.14	41.87	54.00	-12.13	AVERAGE
7326.000	53.11	7.55	60.66	74.00	-13.34	PEAK
7326.000	31.11	7.55	38.66	54.00	-15.34	AVERAGE
9768.000	44.52	11.40	55.92	74.00	-18.08	PEAK
9768.000	23.08	11.40	34.48	54.00	-19.52	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 07: 2442 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
2483.500	53.74	-4.98	48.76	74.00	-25.24	PEAK
2483.500	34.92	-4.98	29.94	54.00	-24.06	AVERAGE
***4904.000**	**55.26**	**5.16**	**60.42**	**74.00**	**-13.58**	**PEAK**
4904.000	34.45	5.16	39.61	54.00	-14.39	AVERAGE
7356.000	49.42	7.69	57.11	74.00	-16.89	PEAK
7356.000	29.04	7.69	36.73	54.00	-17.27	AVERAGE
9808.000	43.19	11.60	54.79	74.00	-19.21	PEAK
9808.000	22.95	11.60	34.55	54.00	-19.45	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.500	53.30	-4.98	48.32	74.00	-25.68	PEAK
2483.500	34.02	-4.98	29.04	54.00	-24.96	AVERAGE
***4904.000**	**56.23**	**5.16**	**61.39**	**74.00**	**-12.61**	**PEAK**
4904.000	35.49	5.16	40.65	54.00	-13.35	AVERAGE
7356.000	50.21	7.69	57.90	74.00	-16.10	PEAK
7356.000	28.05	7.69	35.74	54.00	-18.26	AVERAGE
9808.000	42.72	11.60	54.32	74.00	-19.68	PEAK
9808.000	22.16	11.60	33.76	54.00	-20.24	AVERAGE

Note: '*' means the worst case
Measurement Level = Reading Level + Factor
Factor=Ant Factor + Cable Loss
High Channel 09: 2452 MHz
Data rate: 7.2Mbps

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-03-29
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	802.11a(5.725-5.850G) (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
5725.000	48.32	3.95	52.27	74.00	-21.73	PEAK
5725.000	27.49	3.95	31.44	54.00	-22.56	AVERAGE
11490.000	48.10	16.82	64.92	74.00	-9.08	PEAK
11490.000	28.77	16.82	45.59	54.00	-8.41	AVERAGE
17235.000	47.10	22.93	70.03	74.00	-3.97	PEAK
***17235.000**	**27.68**	**22.93**	**50.61**	**54.00**	**-3.39**	**AVERAGE**

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
5725.000	48.52	3.95	52.47	74.00	-21.53	PEAK
5725.000	27.33	3.95	31.28	54.00	-22.72	AVERAGE
11490.000	48.51	16.82	65.33	74.00	-8.67	PEAK
11490.000	27.62	16.82	44.44	54.00	-9.56	AVERAGE
17235.000	46.57	22.93	69.50	74.00	-4.50	PEAK
***17235.000**	**27.88**	**22.93**	**50.81**	**54.00**	**-3.19**	**AVERAGE**

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 149: 5745 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
11570.000	48.53	16.71	65.24	74.00	-8.76	PEAK
11570.000	27.91	16.71	44.62	54.00	-9.38	AVERAGE
***17355.000**	**46.53**	**24.37**	**70.90**	**74.00**	**-3.10**	**PEAK**
17355.000	26.33	24.37	50.70	54.00	-3.30	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11570.000	48.74	16.71	65.45	74.00	-8.55	PEAK
11570.000	28.62	16.71	45.33	54.00	-8.67	AVERAGE
***17355.000**	**46.13**	**24.37**	**70.50**	**74.00**	**-3.50**	**PEAK**
17355.000	25.62	24.37	49.99	54.00	-4.01	AVERAGE

Note: '*' means the worst case
Measurement Level = Reading Level + Factor
Factor=Ant Factor + Cable Loss
Middle Channel 157: 5785 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
5850.000	50.89	3.96	54.85	74.00	-19.15	PEAK
5850.000	29.33	3.96	33.29	54.00	-20.71	AVERAGE
11610.000	48.10	16.66	64.76	74.00	-9.24	PEAK
11610.000	27.83	16.66	44.49	54.00	-9.51	AVERAGE
17415.000	45.73	24.93	70.66	74.00	-3.34	PEAK
***17415.000**	**25.74**	**24.93**	**50.67**	**54.00**	**-3.33**	**AVERAGE**

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
5850.000	49.33	3.96	53.29	74.00	-20.71	PEAK
5850.000	28.31	3.96	32.27	54.00	-21.73	AVERAGE
11610.000	49.51	16.66	66.17	74.00	-7.83	PEAK
11610.000	28.71	16.66	45.37	54.00	-8.63	AVERAGE
***17415.000**	**45.83**	**24.93**	**70.76**	**74.00**	**-3.24**	**PEAK**
17415.000	25.70	24.93	50.63	54.00	-3.37	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 161: 5805 MHz

Data rate: 6Mbps

6.3.4 TEST RESULTS (Restricted Bands Requirements)

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-03-21
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	ANT1	Test Voltage ：	AC 120V/60Hz
Note：	1. The transmitter was setup to transmit at the lowest channel. Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was setup to transmit at the highest channel. Then the field strength was measured at 2483.5-2500 MHz.		

Test Mode	Ant.Pol. H/V	Freq. (MHz)	Reading		Ant/CF CF(dB)	Act		Limit	
			Peak (dBuv)	AV (dBuv)		Peak (dBuv/m)	AV (dBuv/m)	Peak (dBuv/m)	AV (dBuv/m)
802.1b Data rate 1Mbps	V	2390.00	49.40	32.17	-5.79	43.61	26.38	74.00	54.00
	H	2390.00	48.40	31.45	-5.79	42.61	25.66	74.00	54.00
	V	2483.50	52.54	33.86	-4.98	47.56	28.88	74.00	54.00
	H	2483.50	50.44	32.75	-4.98	45.46	27.77	74.00	54.00
802.11g Data rate 6Mbps	V	2390.00	48.94	30.42	-5.79	43.15	24.63	74.00	54.00
	H	2390.00	47.38	31.85	-5.79	41.59	26.06	74.00	54.00
	V	2483.50	51.38	33.42	-4.98	46.40	28.44	74.00	54.00
	H	2483.50	50.40	32.87	-4.98	45.42	27.89	74.00	54.00
802.11n (20M) Data rate 7.2Mbps	V	2390.00	48.48	32.45	-5.79	42.69	26.66	74.00	54.00
	H	2390.00	47.58	31.24	-5.79	41.79	25.45	74.00	54.00
	V	2483.50	52.22	33.42	-4.98	47.24	28.44	74.00	54.00
	H	2483.50	51.41	34.47	-4.98	46.43	29.49	74.00	54.00
802.11n (40M) Data rate 7.2Mbps	V	2390.00	47.96	30.32	-5.79	42.17	24.53	74.00	54.00
	H	2390.00	47.99	30.39	-5.79	42.20	24.60	74.00	54.00
	V	2483.50	49.82	31.75	-4.98	44.84	26.77	74.00	54.00
	H	2483.50	50.42	34.28	-4.98	45.44	29.30	74.00	54.00

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-03-21
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	ANT2	Test Voltage ：	AC 120V/60Hz
Note：	1. The transmitter was setup to transmit at the lowest channel. Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was setup to transmit at the highest channel. Then the field strength was measured at 2483.5-2500 MHz.		

Test Mode	Ant.Pol. H/V	Freq. (MHz)	Reading		Ant/CF CF(dB)	Act		Limit	
			Peak (dBuv)	AV (dBuv)		Peak (dBuv/m)	AV (dBuv/m)	Peak (dBuv/m)	AV (dBuv/m)
802.1b Data rate 1Mbps	V	2390.00	48.41	30.76	-5.79	42.62	24.97	74.00	54.00
	H	2390.00	46.83	31.68	-5.79	41.04	25.89	74.00	54.00
	V	2483.50	51.38	32.94	-4.98	46.40	27.96	74.00	54.00
	H	2483.50	52.96	33.42	-4.98	47.98	28.44	74.00	54.00
802.11g Data rate 6Mbps	V	2390.00	47.19	32.74	-5.79	41.40	26.95	74.00	54.00
	H	2390.00	47.96	31.38	-5.79	42.17	25.59	74.00	54.00
	V	2483.50	52.83	34.37	-4.98	47.85	29.39	74.00	54.00
	H	2483.50	53.04	32.34	-4.98	48.06	27.36	74.00	54.00
802.11n (20M) Data rate 7.2Mbps	V	2390.00	47.42	30.86	-5.79	41.63	25.07	74.00	54.00
	H	2390.00	47.48	31.67	-5.79	41.69	25.88	74.00	54.00
	V	2483.50	51.78	31.37	-4.98	46.80	26.39	74.00	54.00
	H	2483.50	51.95	33.82	-4.98	46.97	28.84	74.00	54.00
802.11n (40M) Data rate 7.2Mbps	V	2390.00	47.17	31.90	-5.79	41.38	26.11	74.00	54.00
	H	2390.00	48.13	33.10	-5.79	42.34	27.31	74.00	54.00
	V	2483.50	49.28	34.28	-4.98	44.30	29.30	74.00	54.00
	H	2483.50	52.04	31.77	-4.98	47.06	26.79	74.00	54.00

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	25 ℃	Test Data	2012-03-29
Pressure：	1010 hPa	Relative Humidity：	60%
Test Mode ：	ANT1+ ANT2	Test Voltage ：	AC 120V/60Hz
Note：	1. The transmitter was setup to transmit at the lowest channel. Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was setup to transmit at the highest channel. Then the field strength was measured at 2483.5-2500 MHz.		

Test Mode	Ant.Pol. H/V	Freq. (MHz)	Reading		Ant/CF CF(dB)	Act		Limit	
			Peak (dBuv)	AV (dBuv)		Peak (dBuv/m)	AV (dBuv/m)	Peak (dBuv/m)	AV (dBuv/m)
802.1b Data rate 1Mbps	V	2390.00	49.72	31.29	-5.79	43.93	25.50	74.00	54.00
	H	2390.00	47.95	32.79	-5.79	42.16	27.00	74.00	54.00
	V	2483.50	52.31	33.82	-4.98	47.33	28.84	74.00	54.00
	H	2483.50	54.12	34.56	-4.98	49.14	29.58	74.00	54.00
802.11g Data rate 6Mbps	V	2390.00	49.02	34.58	-5.79	43.23	28.79	74.00	54.00
	H	2390.00	50.08	33.29	-5.79	44.29	27.50	74.00	54.00
	V	2483.50	53.96	35.84	-4.98	48.98	30.86	74.00	54.00
	H	2483.50	54.63	34.08	-4.98	49.65	29.10	74.00	54.00
802.11n (20M) Data rate 7.2Mbps	V	2390.00	49.03	32.45	-5.79	43.24	26.66	74.00	54.00
	H	2390.00	49.26	32.97	-5.79	43.47	27.18	74.00	54.00
	V	2483.50	53.25	32.86	-4.98	48.27	27.88	74.00	54.00
	H	2483.50	53.25	35.17	-4.98	48.27	30.19	74.00	54.00
802.11n (40M) Data rate 7.2Mbps	V	2390.00	48.76	33.28	-5.79	42.97	27.49	74.00	54.00
	H	2390.00	49.72	34.93	-5.79	43.93	29.14	74.00	54.00
	V	2483.50	50.39	35.82	-4.98	45.41	30.84	74.00	54.00
	H	2483.50	53.64	33.18	-4.98	48.66	28.20	74.00	54.00

Remark：

(1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode.

(2) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

(3) Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

6.4 BANDWIDTH TEST

6.4.1 Applied procedures / Limit

15.247(a) (2) Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

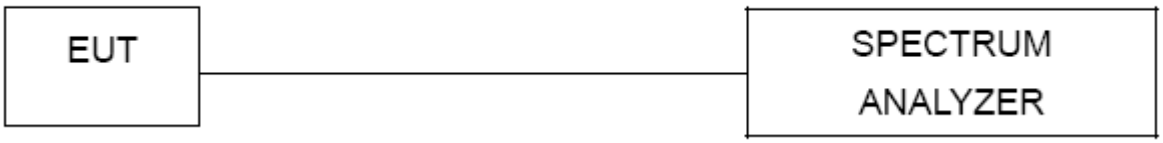
6.4.2 Test procedure

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≧RBW, Sweep time = Auto.

6.4.3 Deviation from standard

No deviation.

6.4.4 Test setup



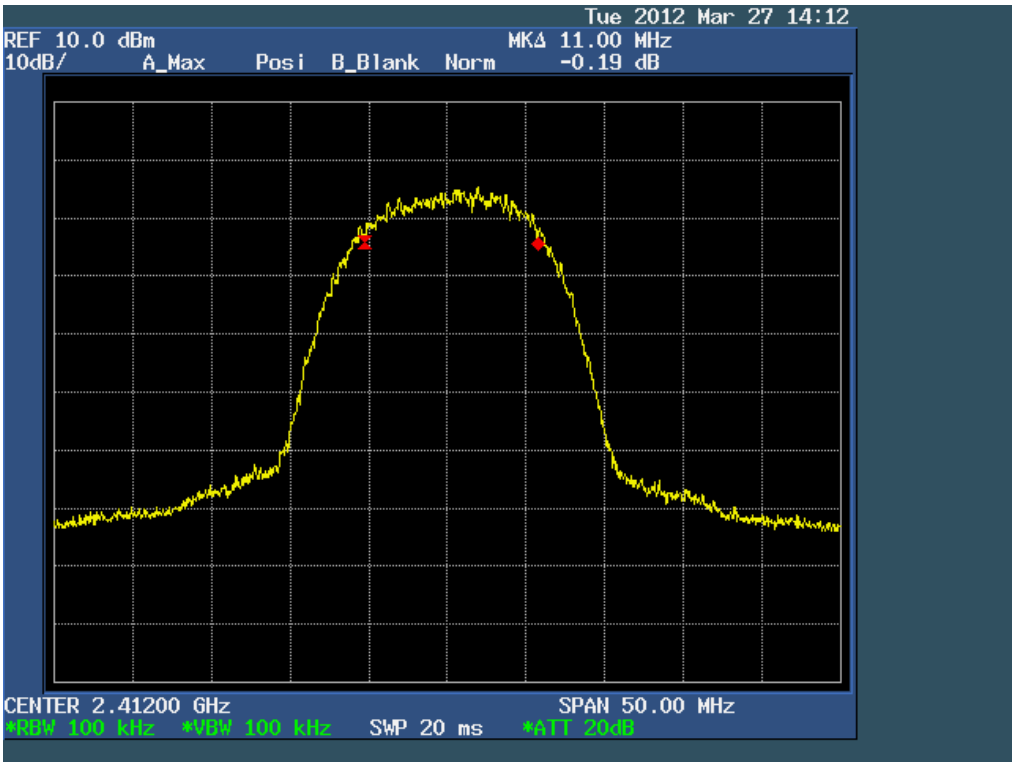
6.4.5 Test results

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

Test Mode	Test Channel	Frequency (MHz)	6 dB Bandwidth (KHz)	Limit （kHz）
Ant 1 802.11b Data rate 1Mbps	CH01	2412	11000	≧500
	CH07	2442	12000	≧500
	CH11	2462	10950	≧500
Ant 1 802.11g Data rate 6Mbps	CH01	2412	16800	≧500
	CH07	2442	16860	≧500
	CH11	2462	17950	≧500
Ant 1 802.11n(20M) Data rate 7.2Mbps	CH01	2412	17940	≧500
	CH07	2442	18060	≧500
	CH11	2462	17950	≧500
Ant 1 802.11n(40M) Data rate 7.2Mbps	CH03	2422	37000	≧500
	CH07	2442	37200	≧500
	CH09	2452	37000	≧500
Ant 1 802.11a (5.725GHz-5.850GHz) Data rate 6Mbps	CH149	5745	16750	≧500
	CH157	5785	16800	≧500
	CH161	5805	16750	≧500
Ant 2 802.11b Data rate 1Mbps	CH01	2412	10920	≧500
	CH07	2442	11340	≧500
	CH11	2462	12000	≧500
Ant 2 802.11g Data rate 6Mbps	CH01	2412	16700	≧500
	CH07	2442	16700	≧500
	CH11	2462	16800	≧500
Ant 2 802.11n(20M) Data rate 7.2Mbps	CH01	2412	17940	≧500
	CH07	2442	17940	≧500
	CH11	2462	16750	≧500
Ant 2 802.11n(40M) Data rate 7.2Mbps	CH03	2422	36880	≧500
	CH07	2442	36960	≧500
	CH09	2452	37000	≧500
Ant 2 802.11a (5.725GHz-5.850GHz) Data rate 6Mbps	CH149	5745	16750	≧500
	CH157	5785	16750	≧500
	CH161	5805	16750	≧500

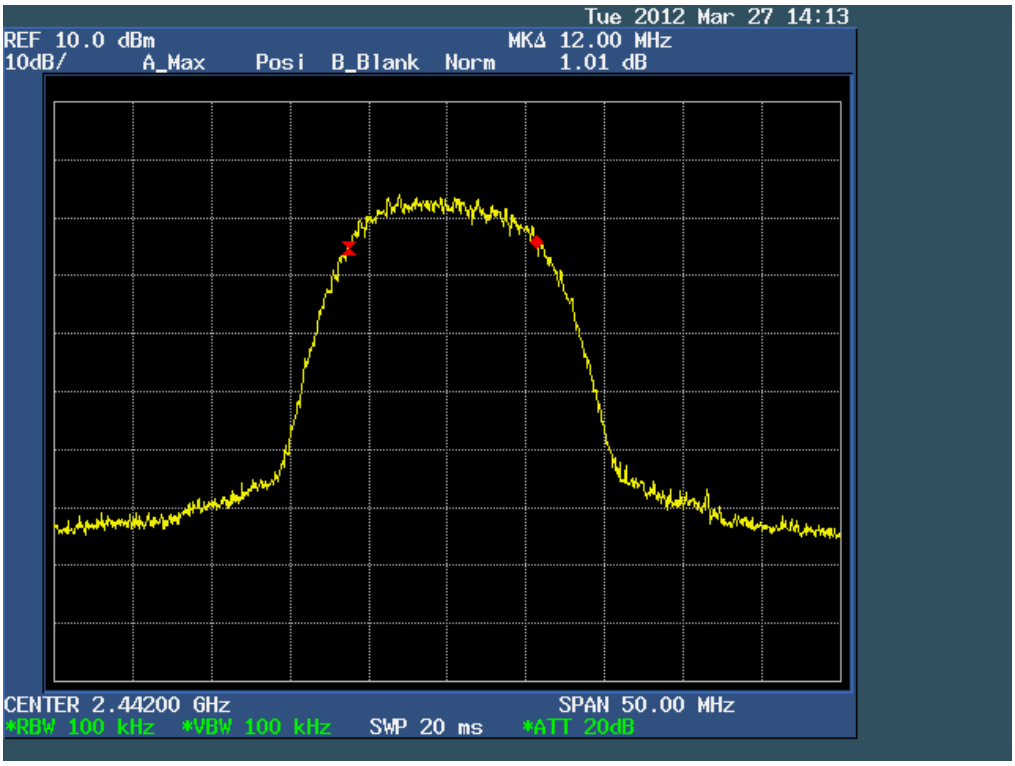
Ant 1 802.11b

The Lowest Channel 01: 2412MHz



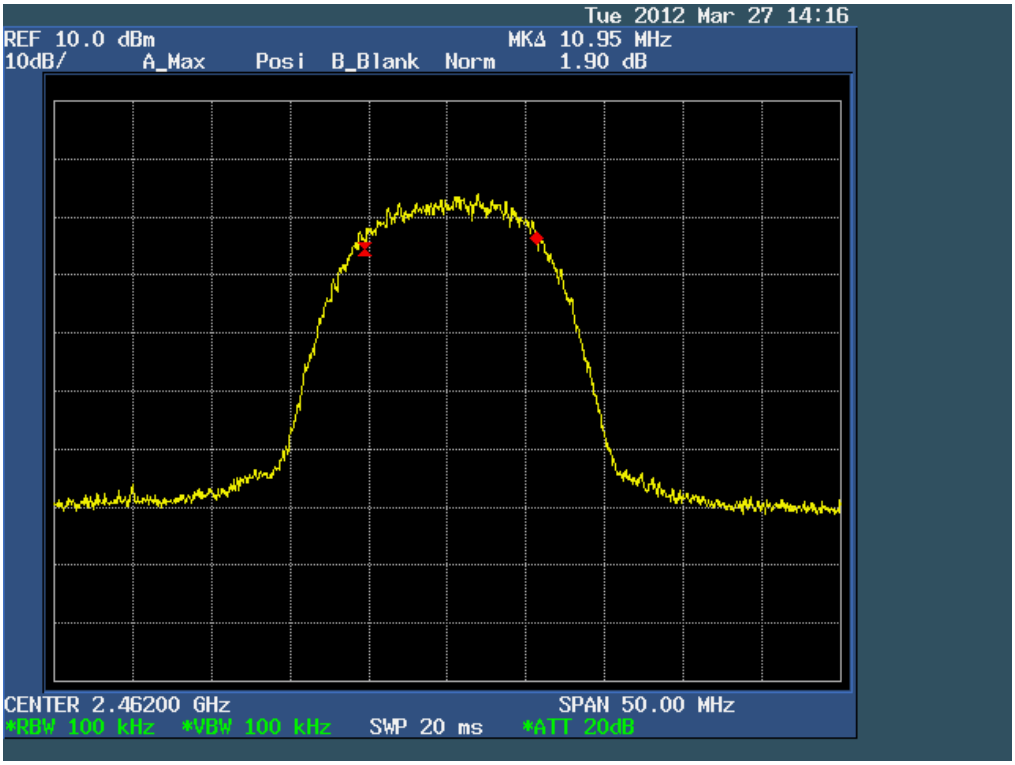
Ant 1 802.11b

The Middle Channel 07: 2442MHz



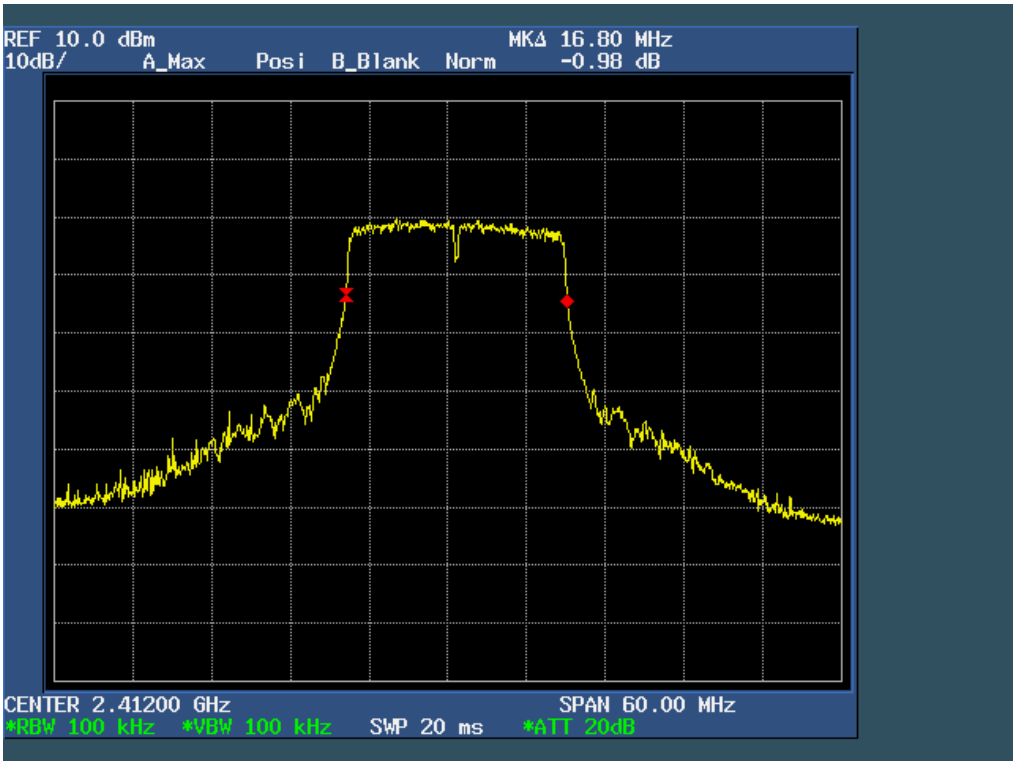
Ant 1 802.11b

The High Channel 11: 2462MHz



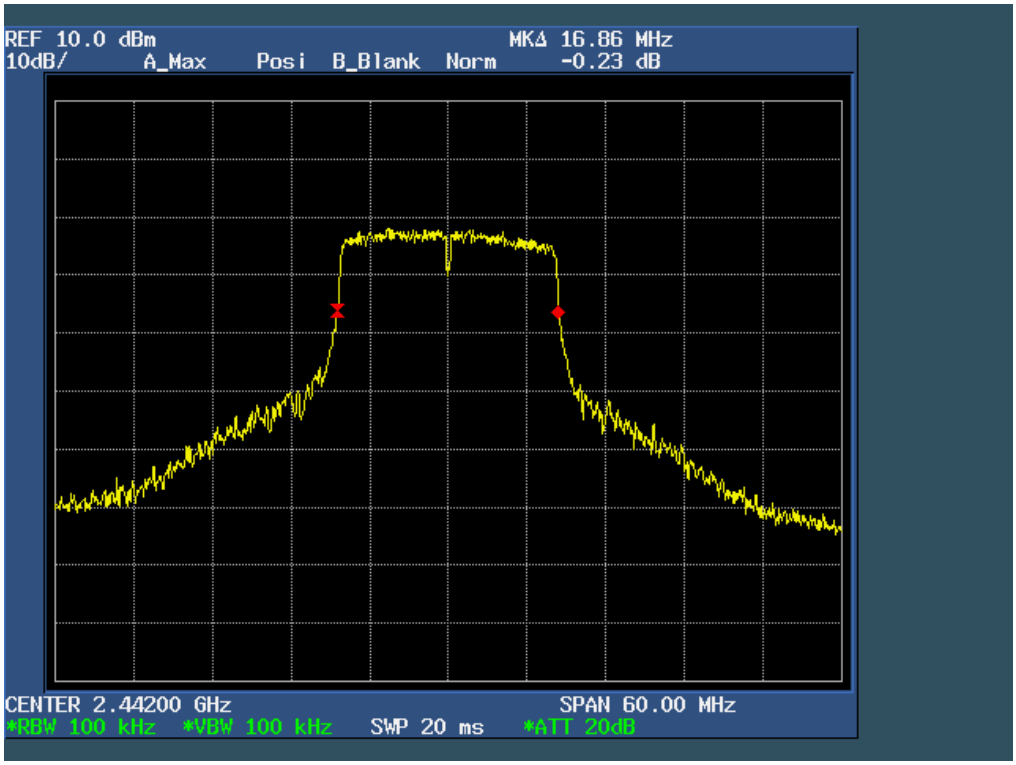
Ant 1 802.11g

The Lowest Channel 01: 2412MHz



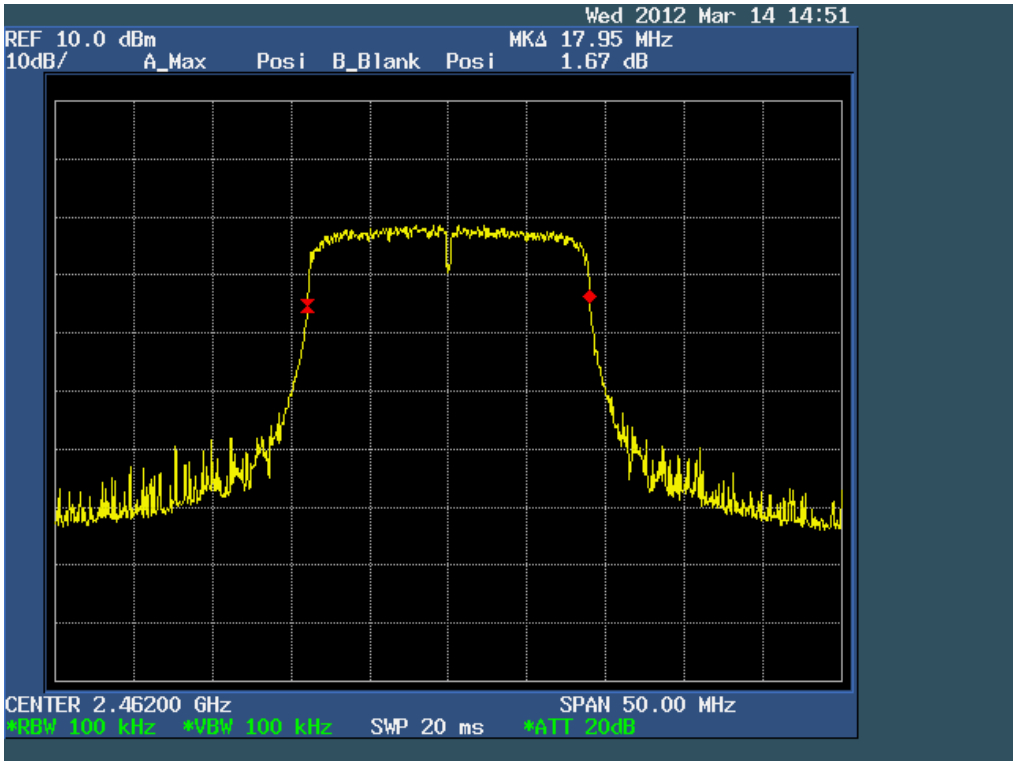
Ant 1 802.11g

The Middle Channel 07: 2442MHz



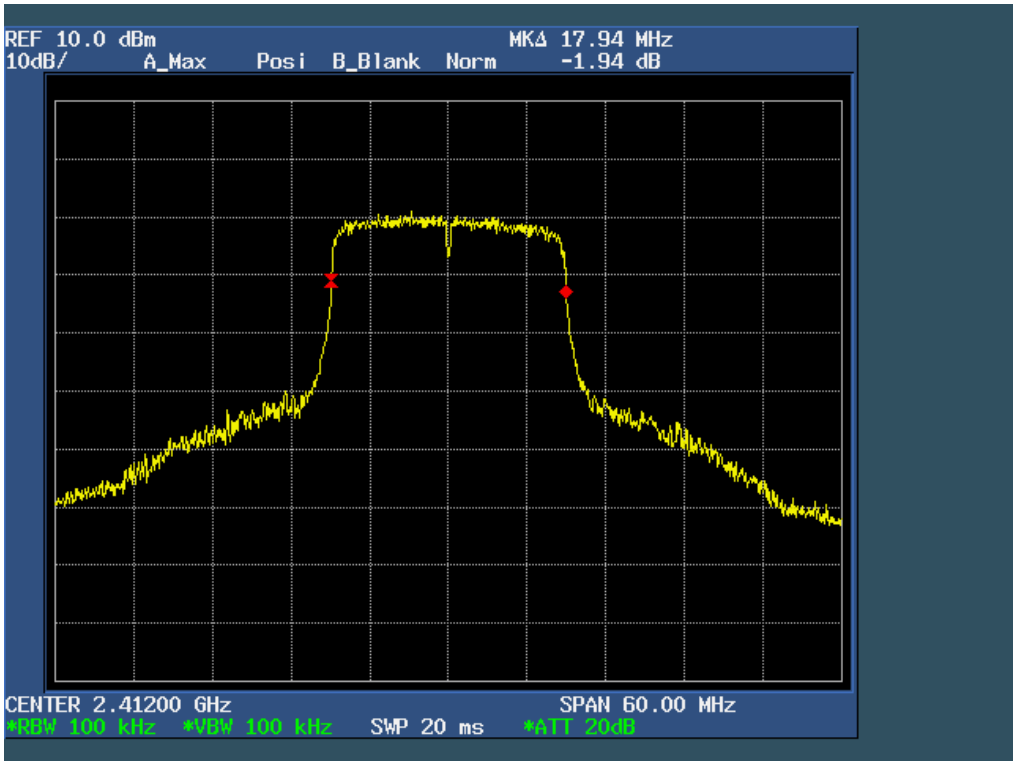
Ant 1 802.11g

The High Channel 11: 2462MHz



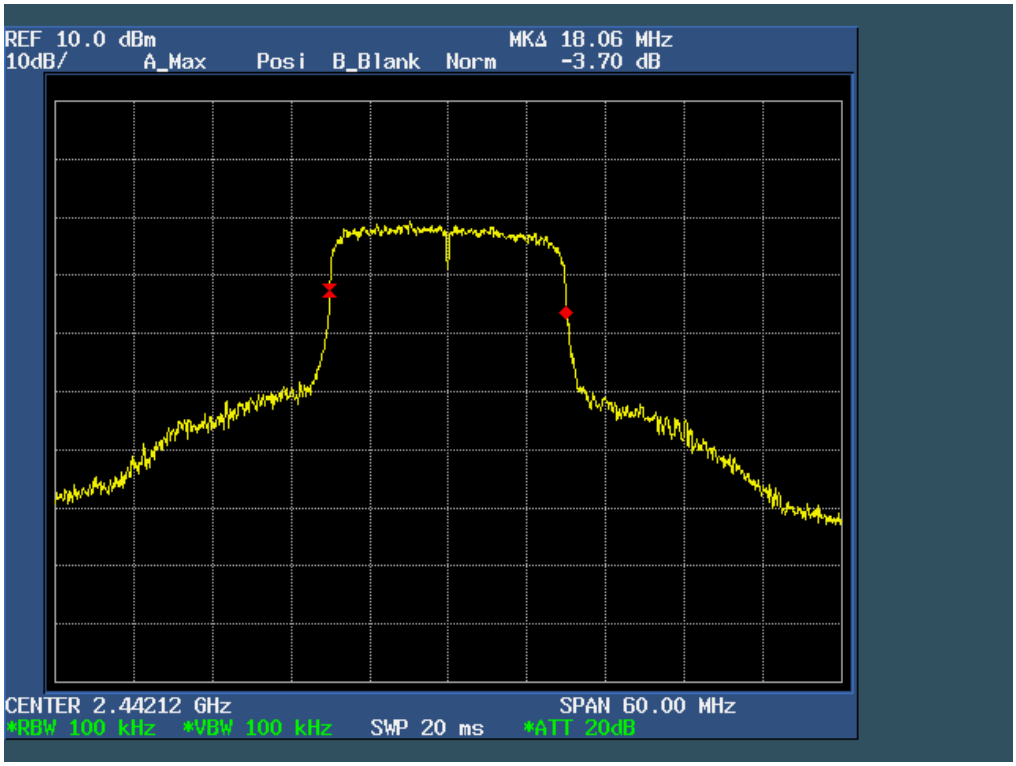
Ant 1 802.11n(20M)

The Lowest Channel 01: 2412MHz



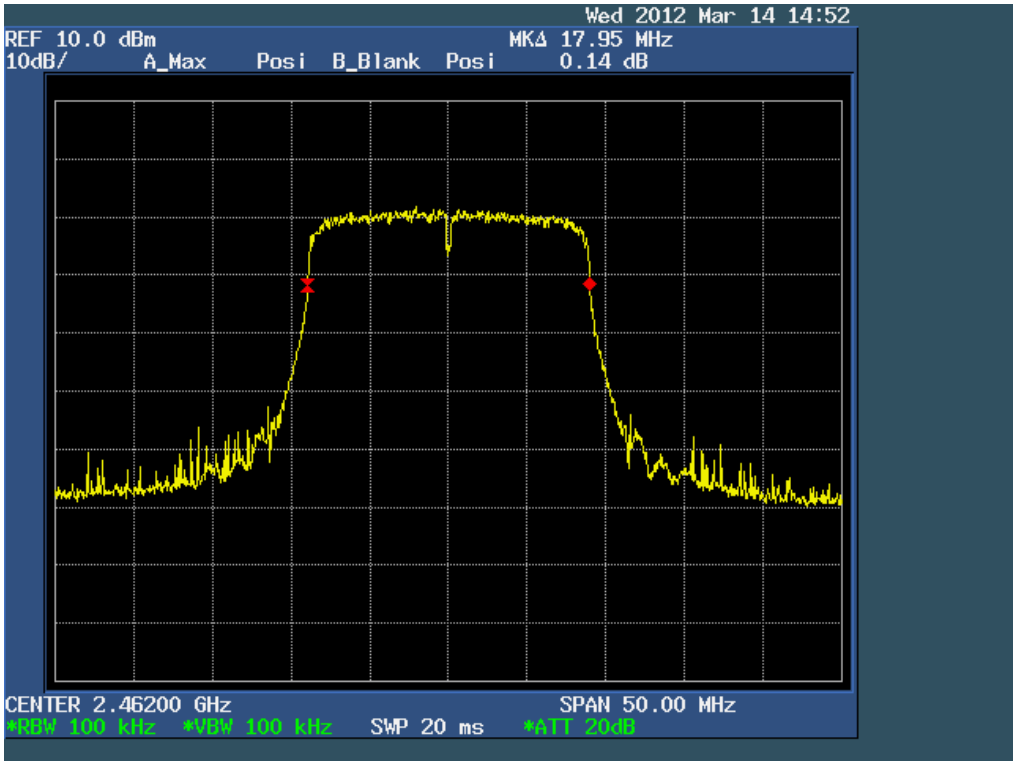
Ant 1 802.11n(20M)

The Middle Channel 07: 2442MHz



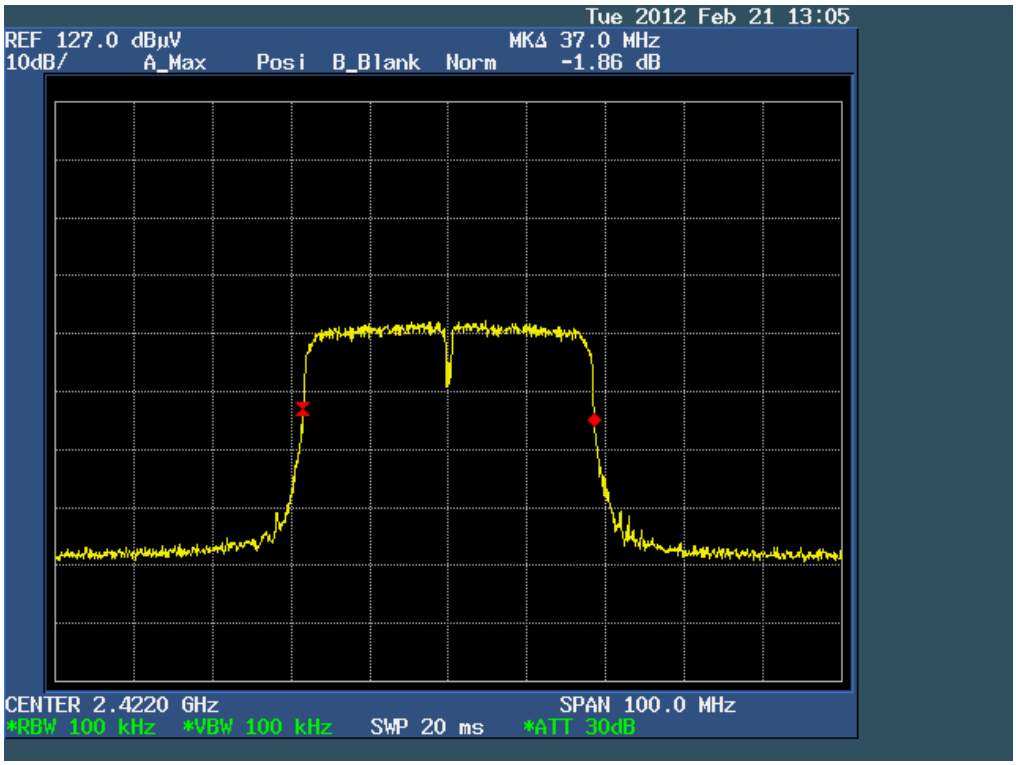
Ant 1 802.11n(20M)

The High Channel 11: 2462MHz



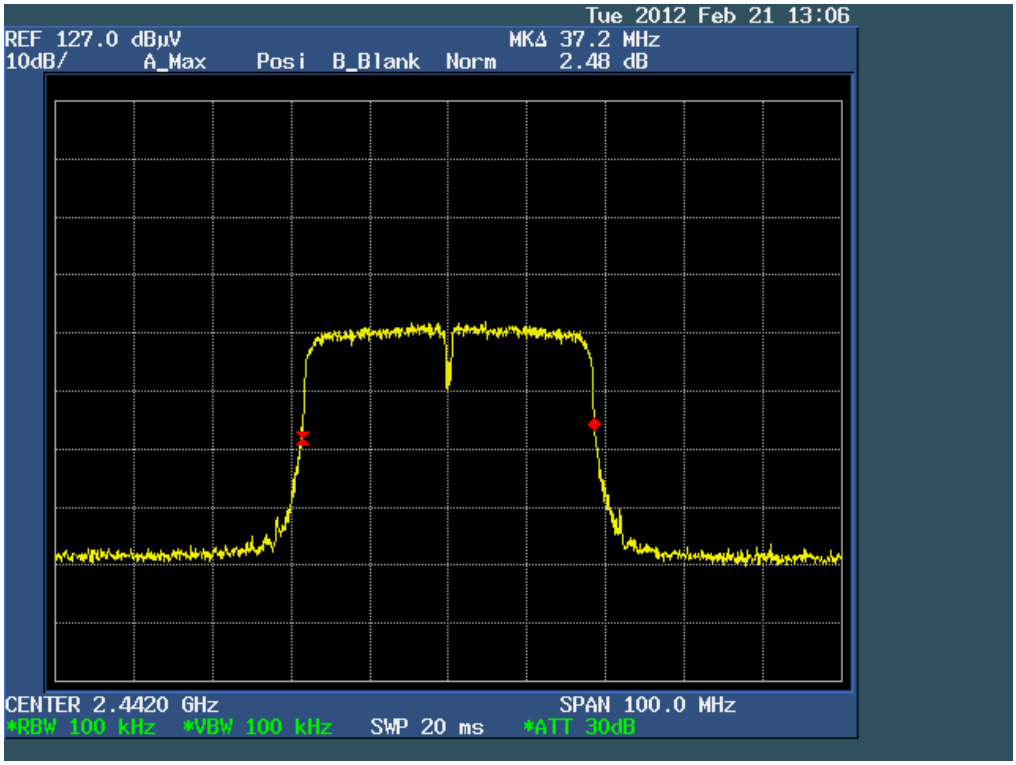
Ant 1 802.11n (40M)

The Lowest Channel 03: 2422MHz



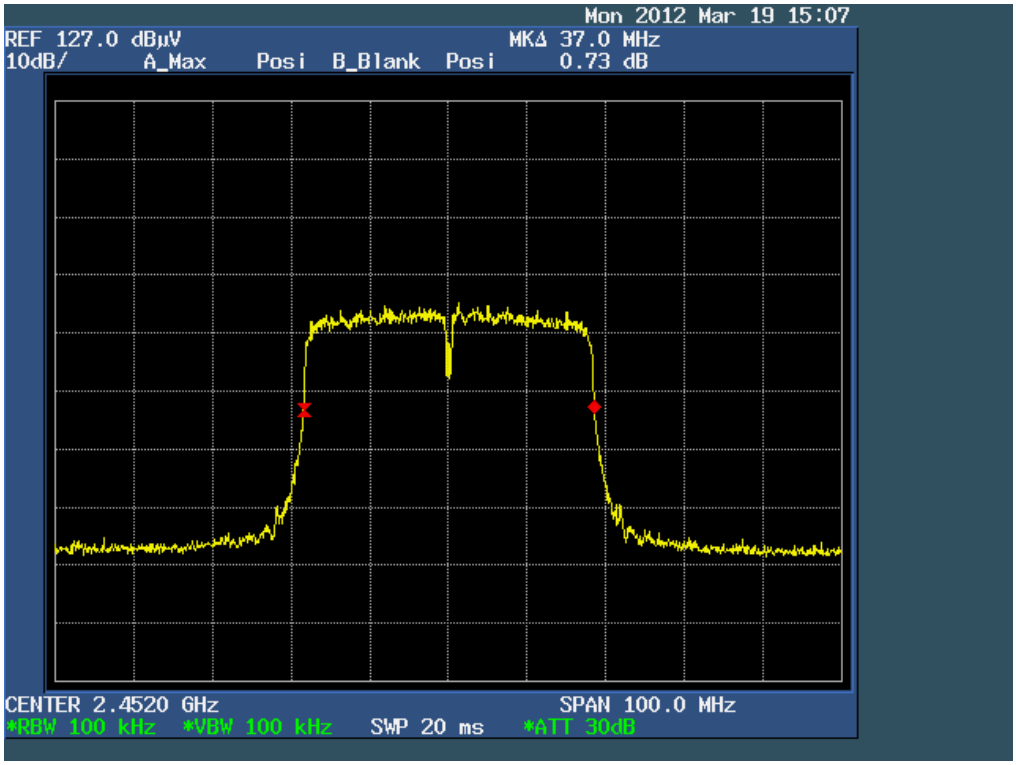
Ant 1 802.11n (40M)

The Middle Channel 07: 2442MHz



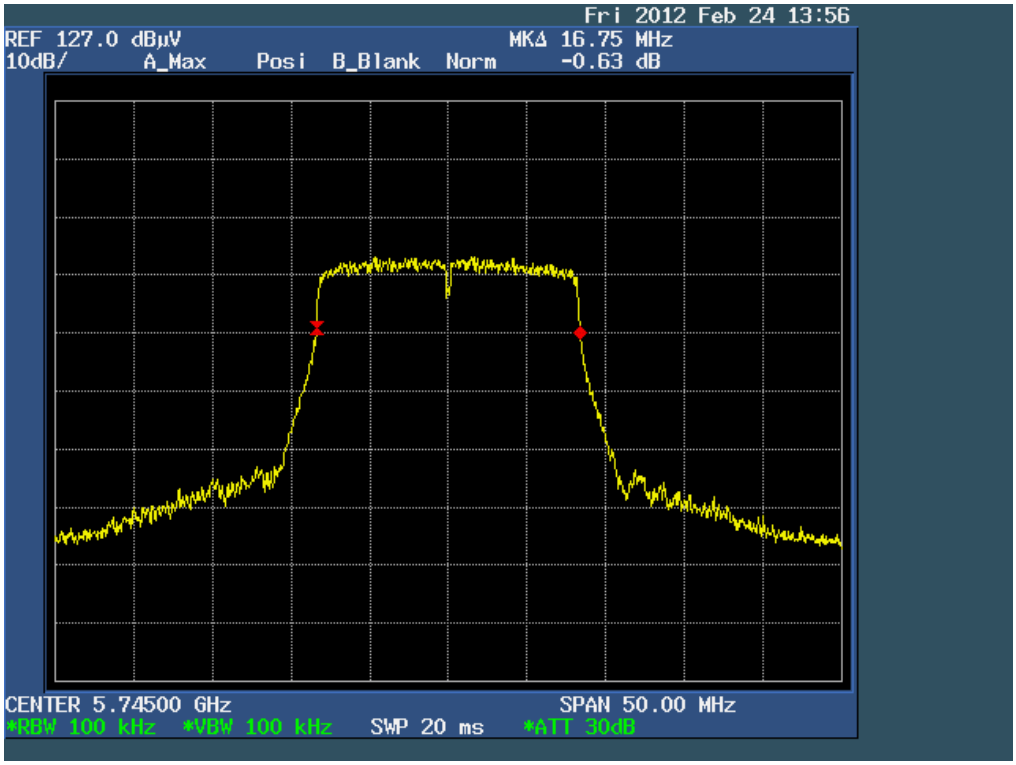
Ant 1 802.11n (40M)

The High Channel 09: 2452MHz



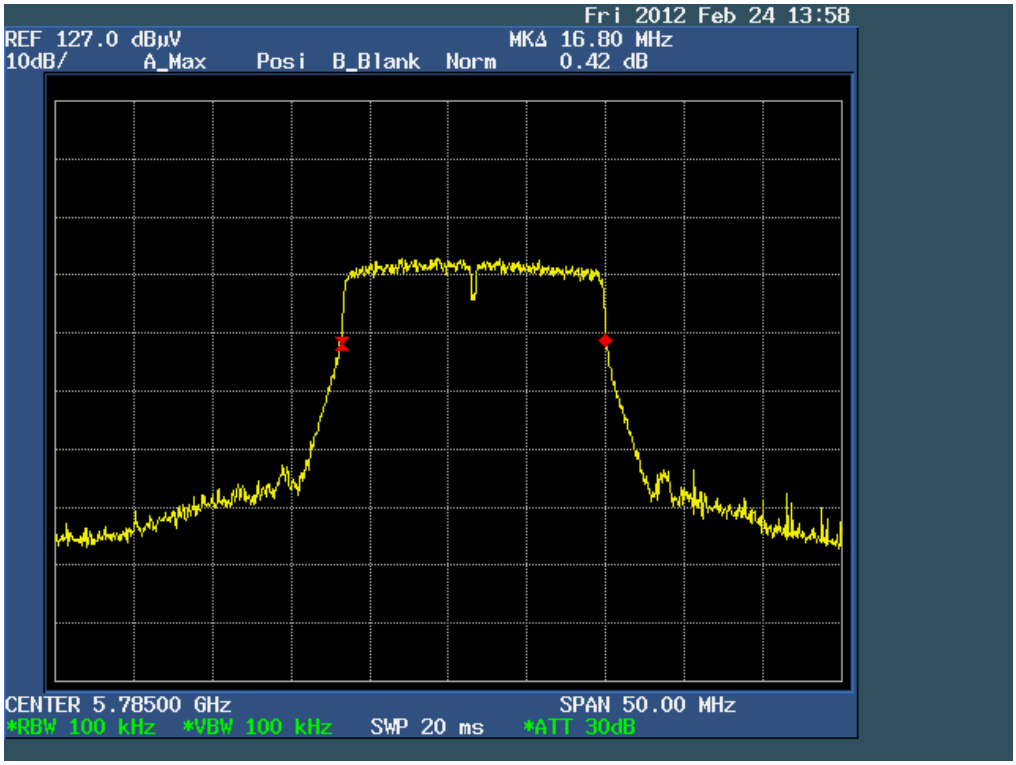
Ant 1 802.11a (5.725GHz-5.850GHz)

The Lowest Channel 149: 5745MHz



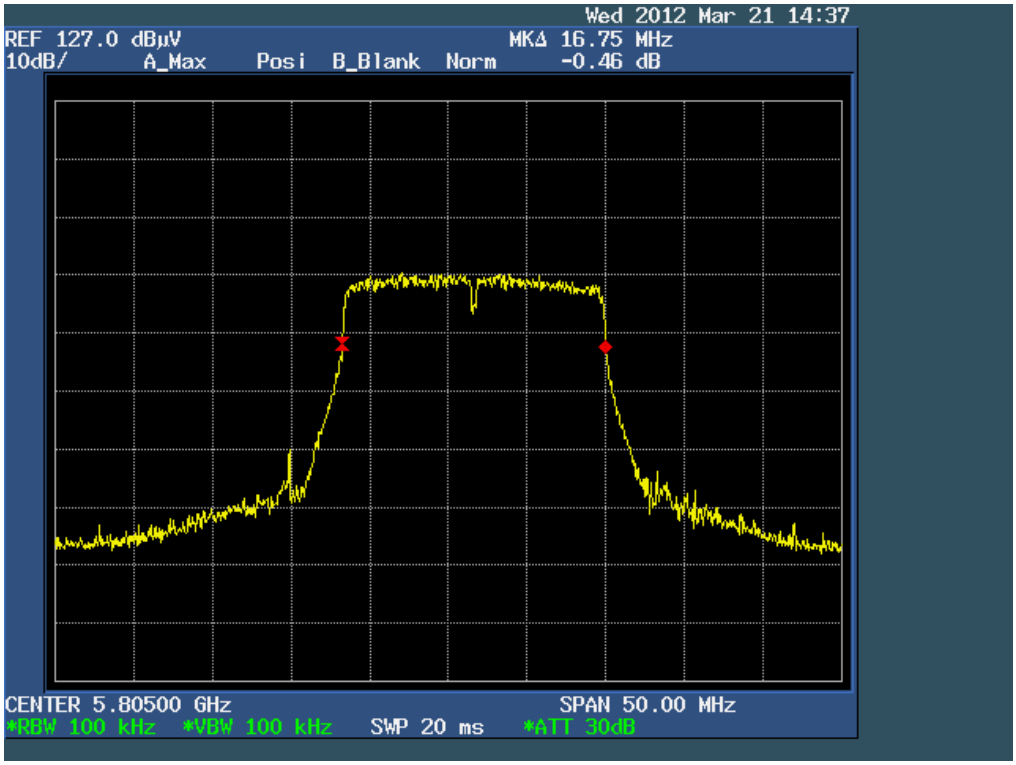
Ant 1 802.11a (5.725GHz-5.850GHz)

The Middle Channel 157: 5785MHz



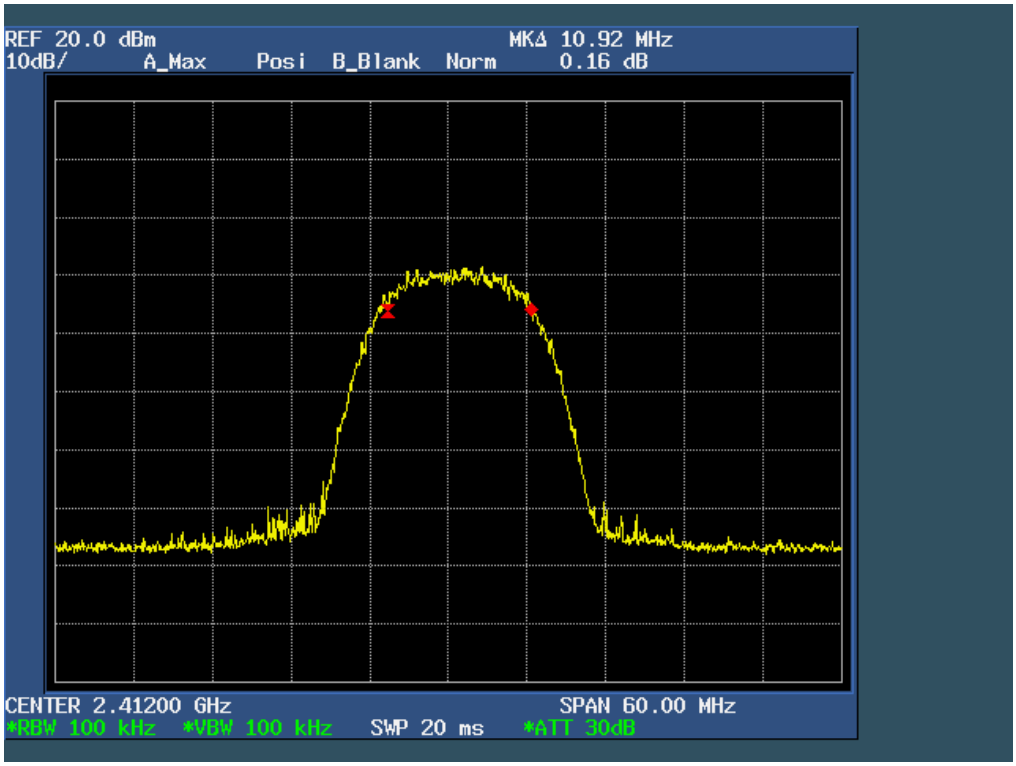
Ant 1 802.11a (5.725GHz-5.850GHz)

The High Channel 161: 5805MHz



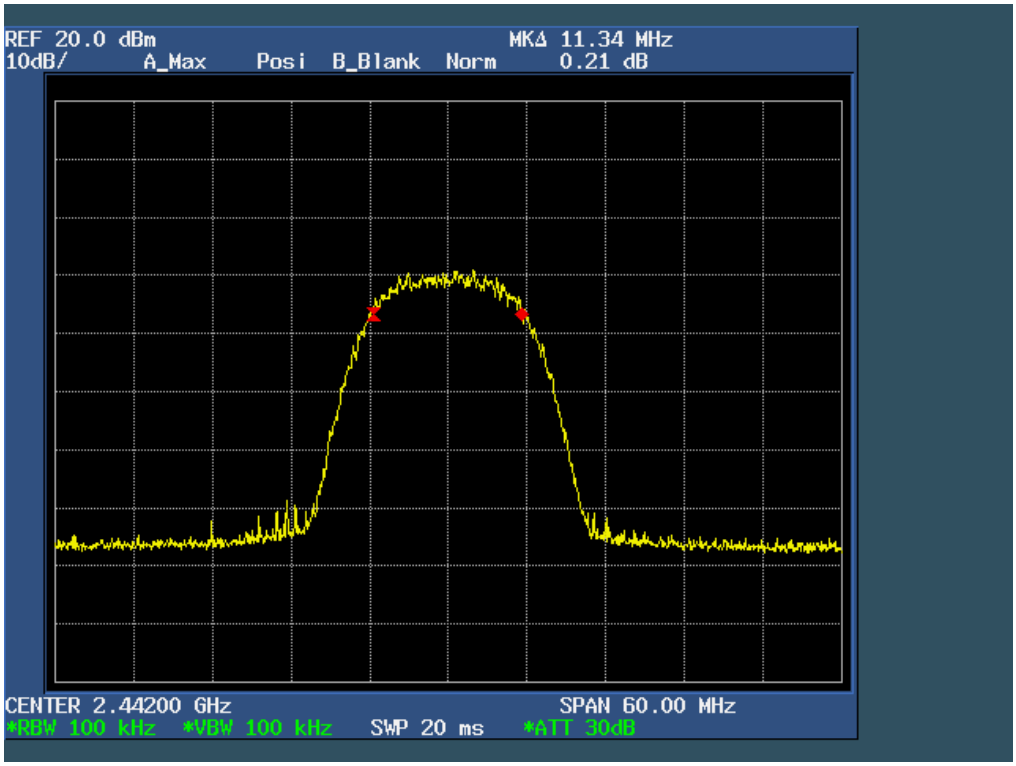
Ant 2 802.11b

The Lowest Channel 01: 2412MHz



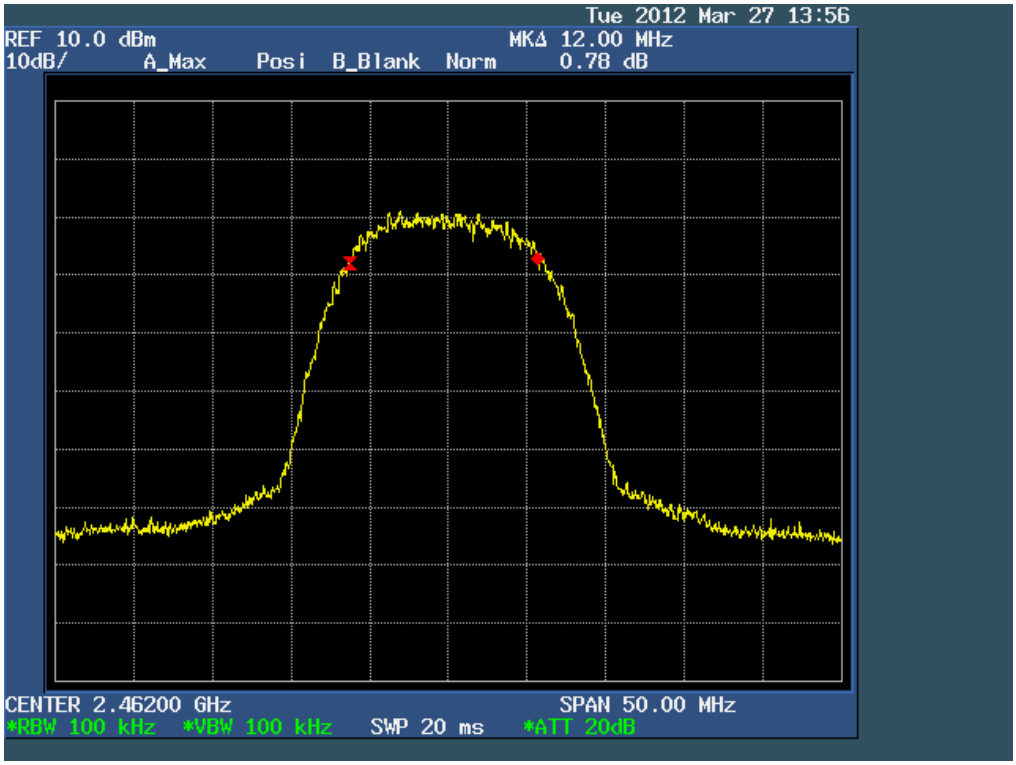
Ant 2 802.11b

The Middle Channel 07: 2442MHz



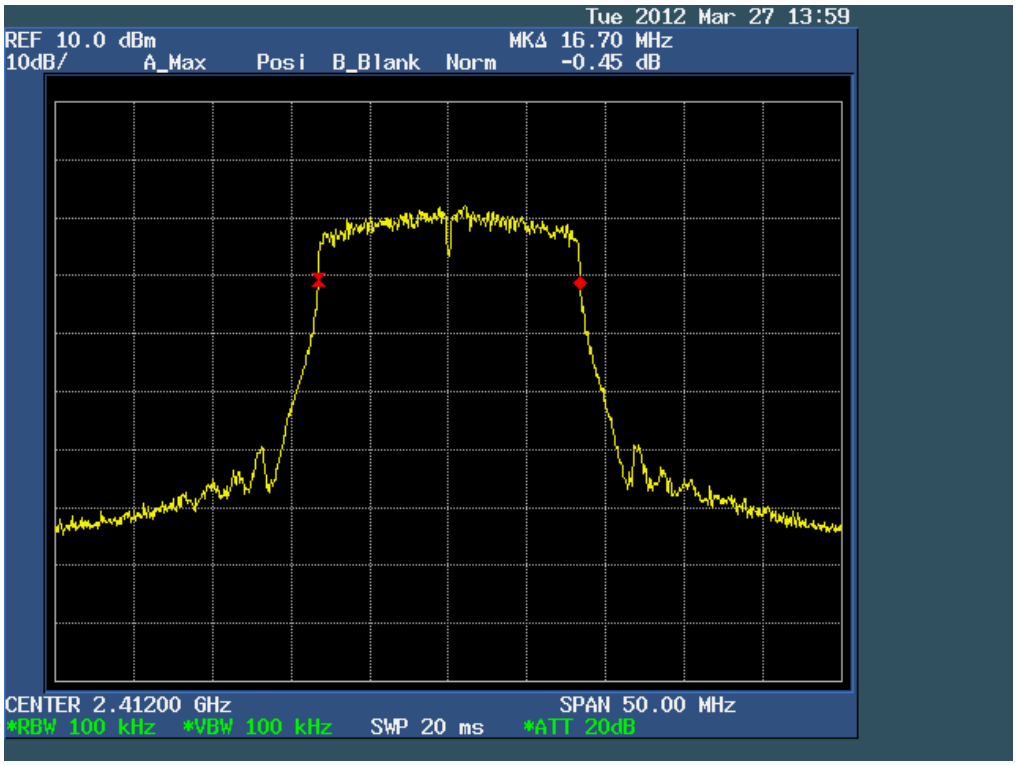
Ant 2 802.11b

The High Channel 11: 2462MHz



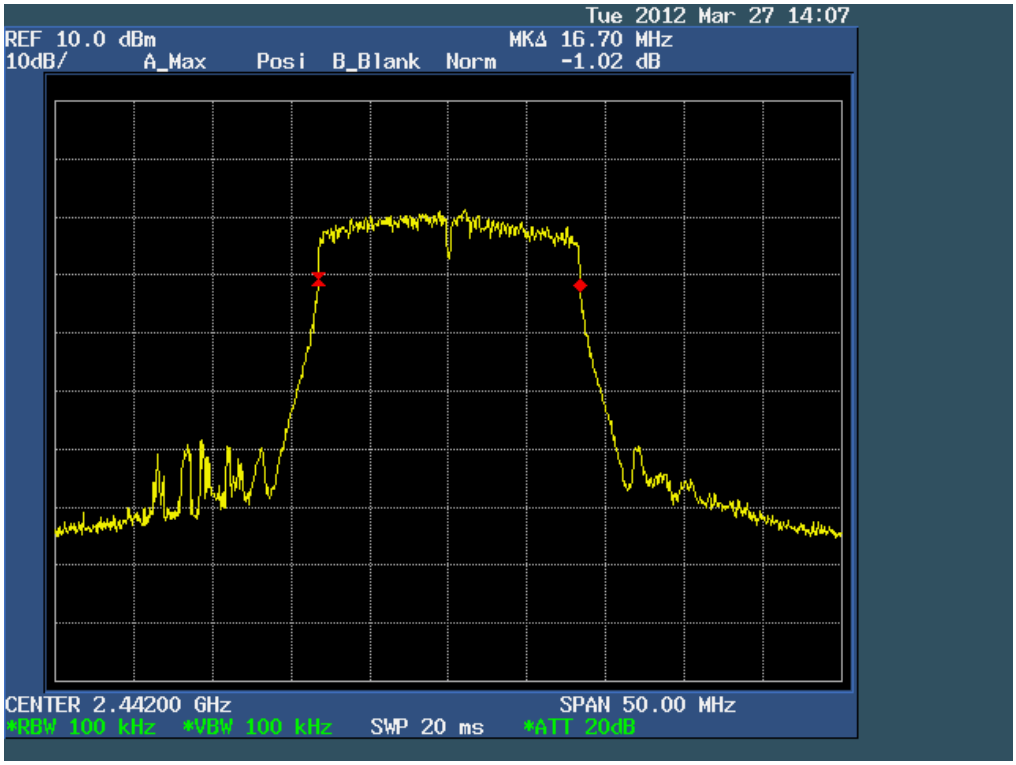
Ant 2 802.11g

The Lowest Channel 01: 2412MHz



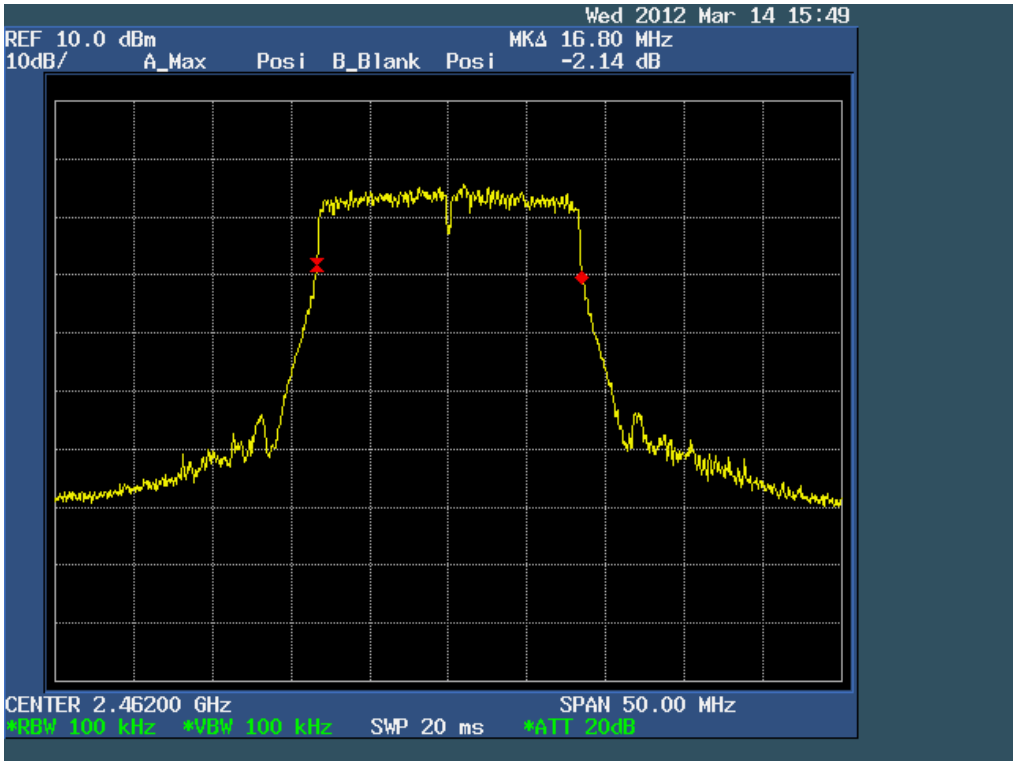
Ant 2 802.11 g

The Middle Channel 07: 2442MHz



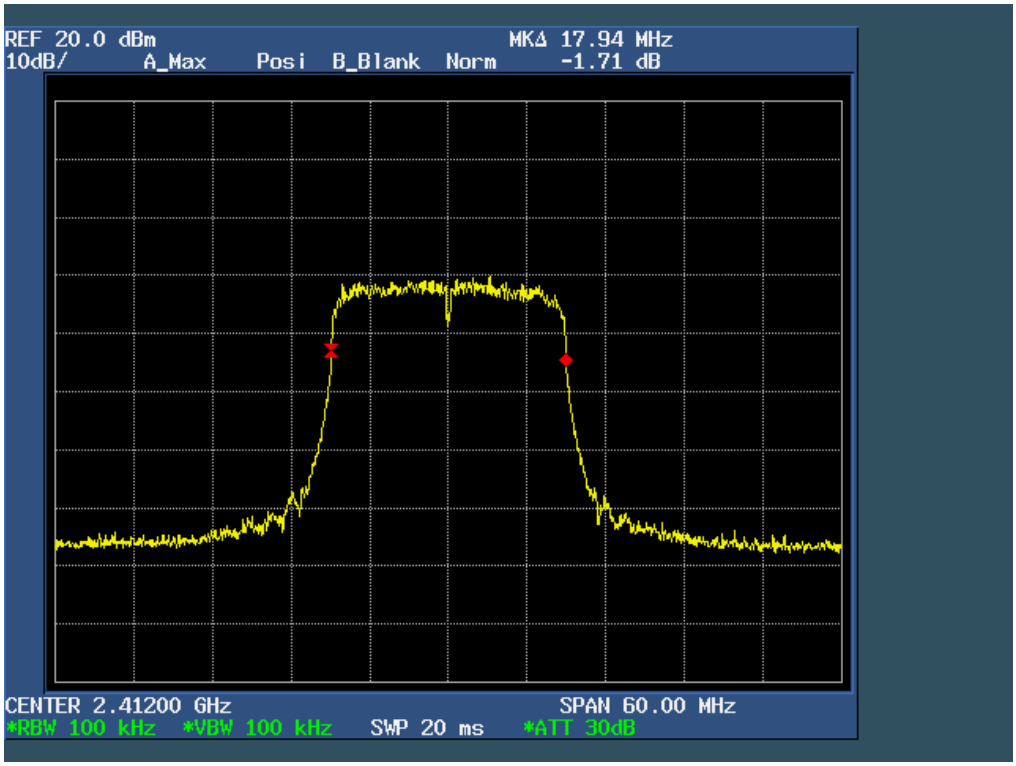
Ant 2 802.11 g

The High Channel 11: 2462MHz



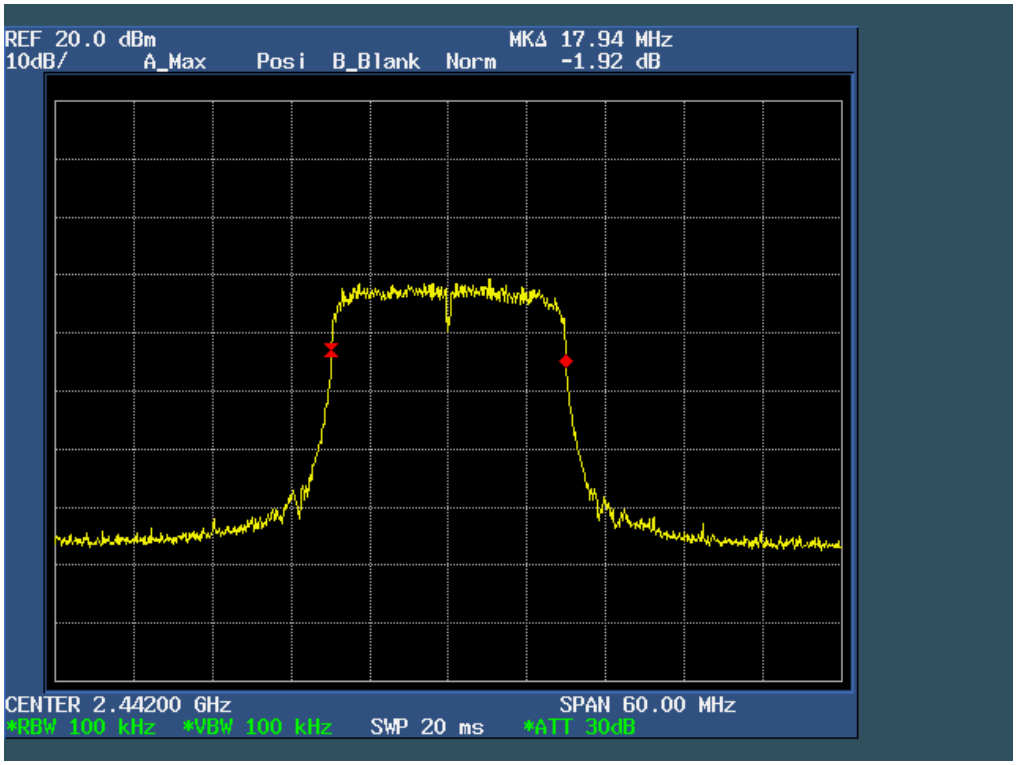
Ant 2 802.11 n (20M)

The Lowest Channel 01: 2412MHz



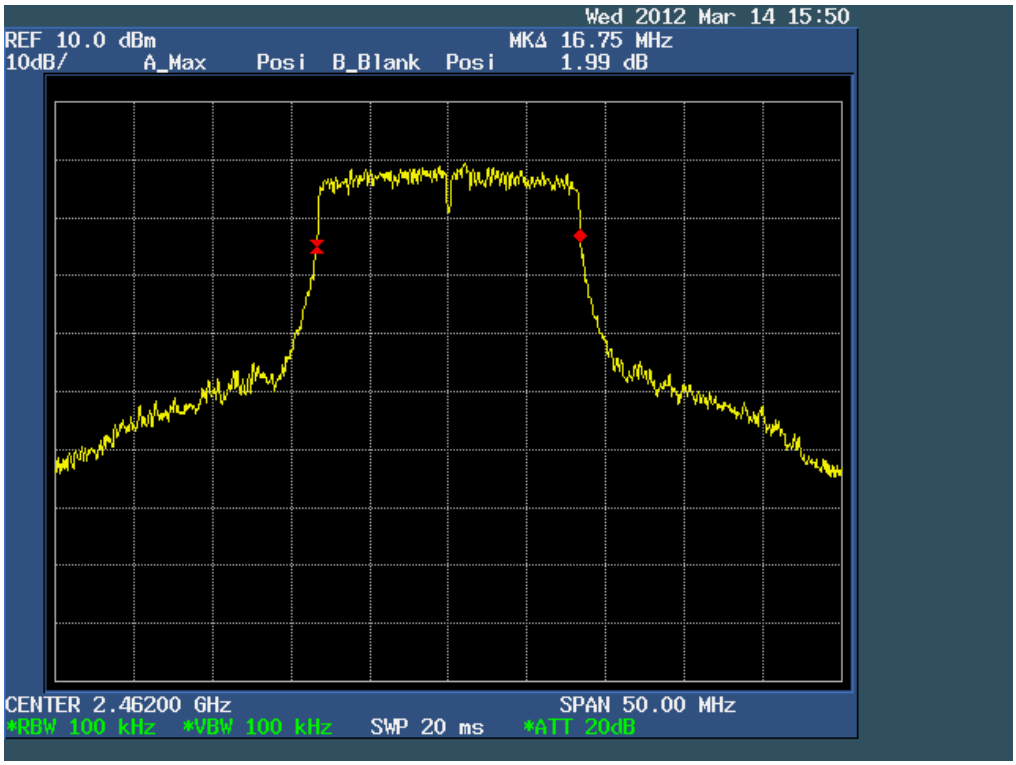
Ant 2 802.11 n (20M)

The Middle Channel 07: 2442MHz



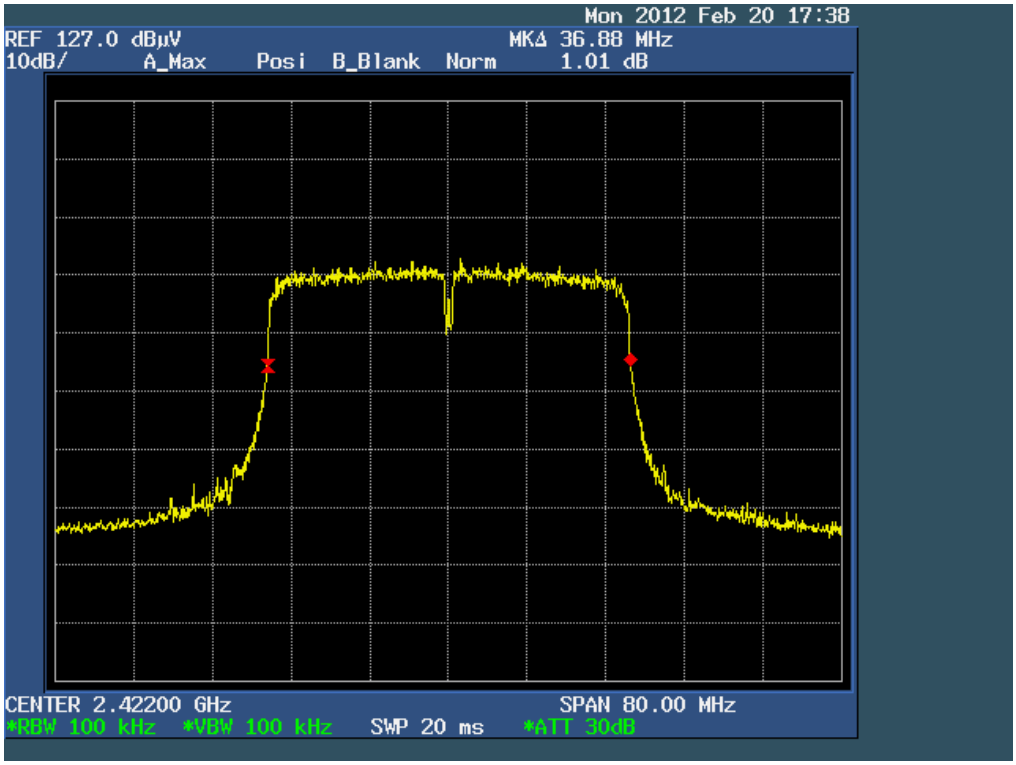
Ant 2 802.11 n (20M)

The High Channel 11: 2462MHz



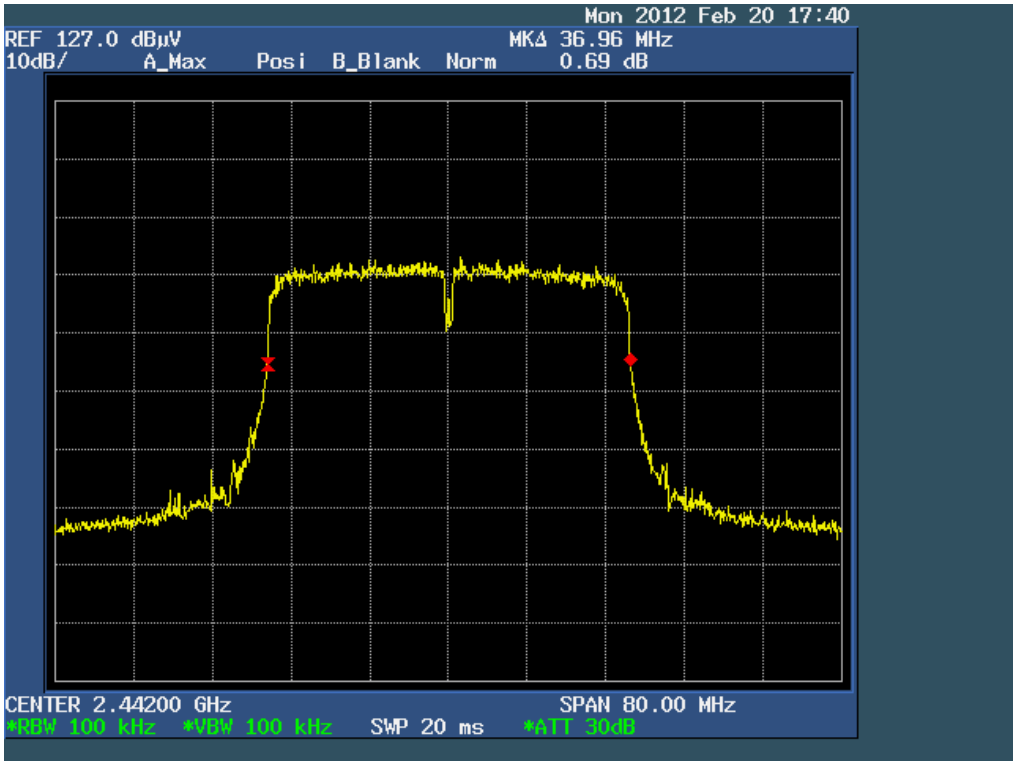
Ant 2 802.11n (40M)

The Lowest Channel 03: 2422MHz



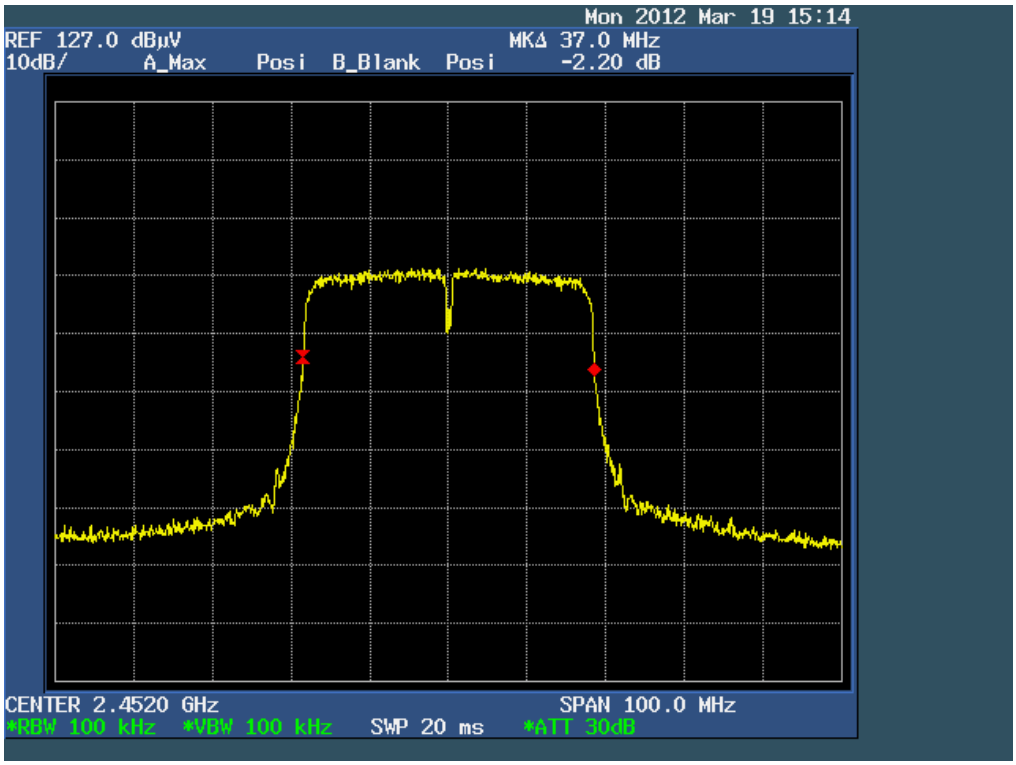
Ant 2 802.11n (40M)

The Middle Channel 07: 2442MHz



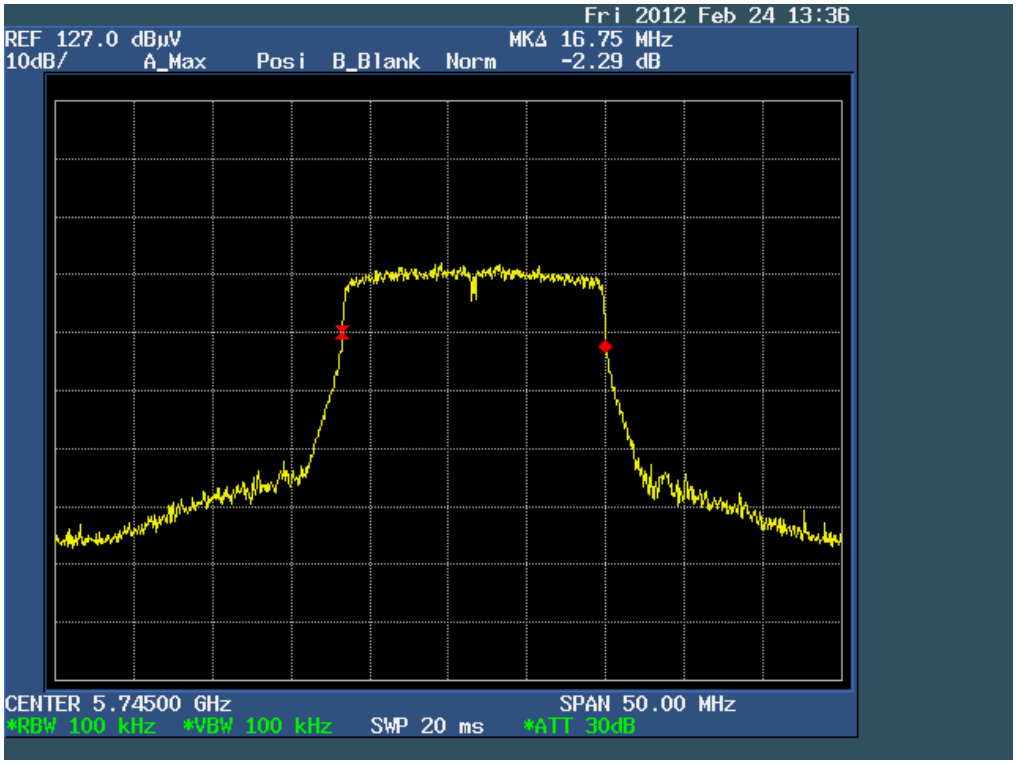
Ant 2 802.11n (40M)

The High Channel 09: 2452MHz



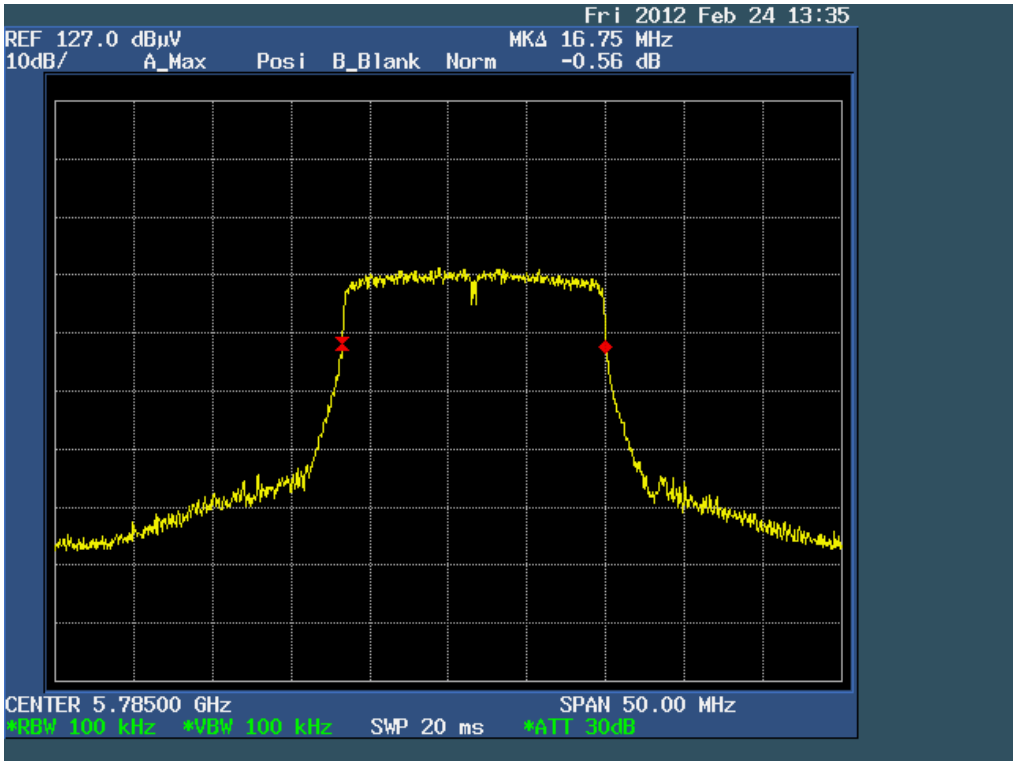
Ant 2 802.11a (5.725GHz-5.850GHz)

The Lowest Channel 149: 5745MHz



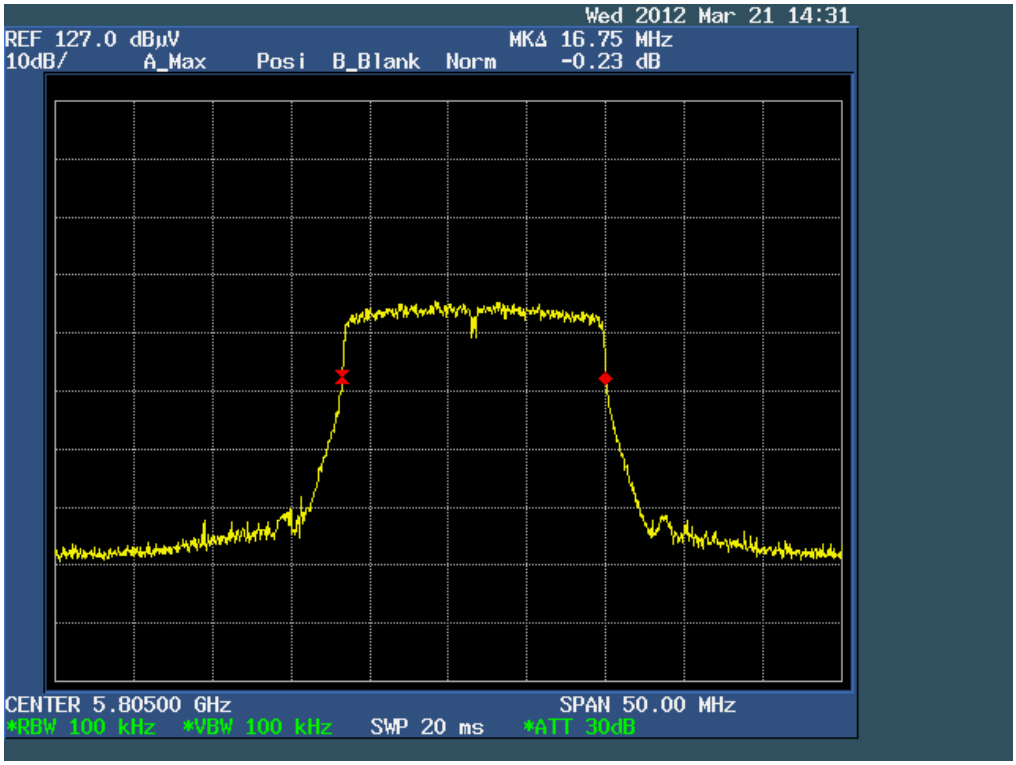
Ant 2 802.11a (5.725GHz-5.850GHz)

The Middle Channel 157: 5785MHz



Ant 2 802.11a (5.725GHz-5.850GHz)

The High Channel 161: 5805MHz



6.5 Peak Power Density

6.5.1 Applied procedures / Limit

15.247(a) (e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

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. Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as RBW=3kHz, VBW=10kHz, Sweep time=100s, span=300KHz, Detector Function=Average.

6.5.3 Deviation from standard

No deviation.

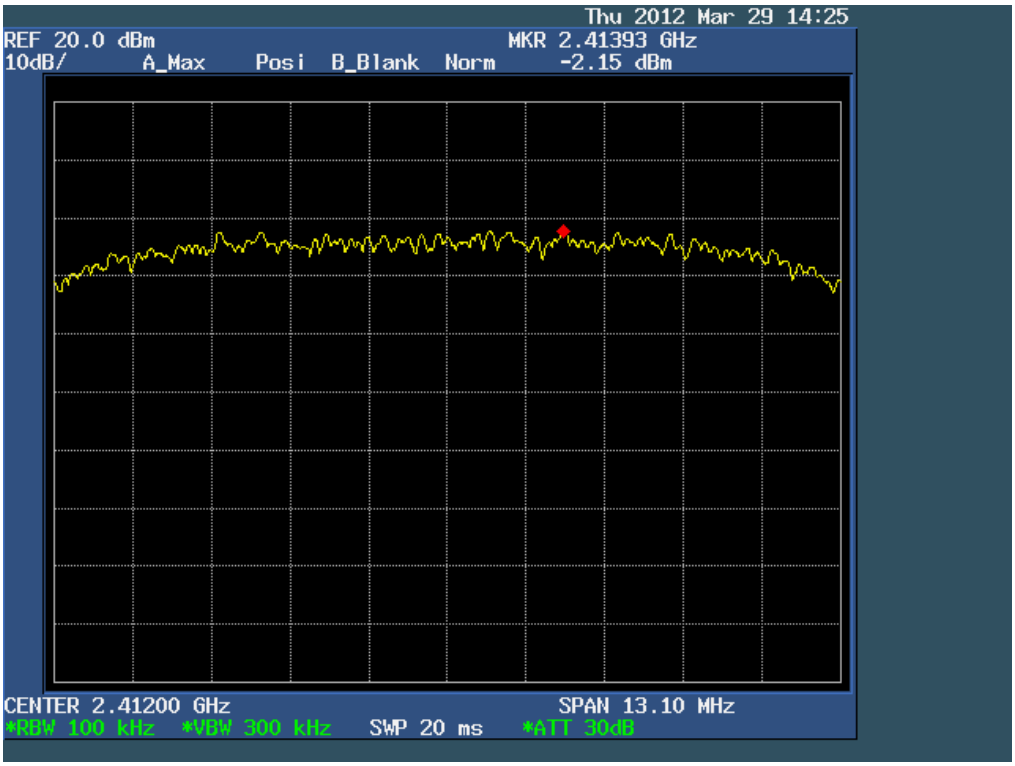
6.5.4 Test results

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

Test Mode	Channel	Channel frenqucy (MHz)	ANT1 Reading (dBm)	ANT2 Reading (dBm)	Total Power Ant 1+ Ant 2 (dBm)	Limit (dBm)	Result
802.11b Data rate 1Mbps	Low	2412	-2.15	0.41	-2.15+0.41= 2.56	8	Pass
	Middle	2442	-2.05	1.11	-2.05+1.11= 2.39	8	Pass
	Highest	2462	-2.42	-0.55	-2.42+(-0.55)= 1.05	8	Pass
802.11g Data rate 6Mbps	Low	2412	-3.41	-3.81	-3.41+(-3.81)= -1.26	8	Pass
	Middle	2442	-2.66	-0.62	-2.66+(-0.62)= 0.89	8	Pass
	Highest	2462	-4.55	-3.12	-4.55+(-3.12)= -1.18	8	Pass
802.11n(20M) Data rate 7.2Mbps	Low	2412	-7.30	-5.77	-7.30+(-5.77)= -3.76	8	Pass
	Middle	2442	-6.42	-5.13	-6.42+(-5.13)= -3.30	8	Pass
	Highest	2462	-5.03	-3.80	-5.03+(-3.80)= -2.32	8	Pass
802.11n(40M) Data rate 7.2Mbps	Low	2422	-9.16	-6.54	-9.16+(-6.54)= -4.94	8	Pass
	Middle	2442	-10.09	-7.92	-10.09+(-7.92)= -5.77	8	Pass
	Highest	2452	-11.02	-8.32	-11.02+(-8.32)= -6.81	8	Pass
802.11a (5.725GHz-5.850GHz) Data rate 6Mbps	Low	5745	-7.71	-9.47	-7.71+(-9.47)= -5.70	17	Pass
	Middle	5785	-8.54	-10.06	-8.54+(-10.06)= -6.71	17	Pass
	Highest	5805	-10.51	-9.94	-10.51+(-9.94)= -8.46	17	Pass

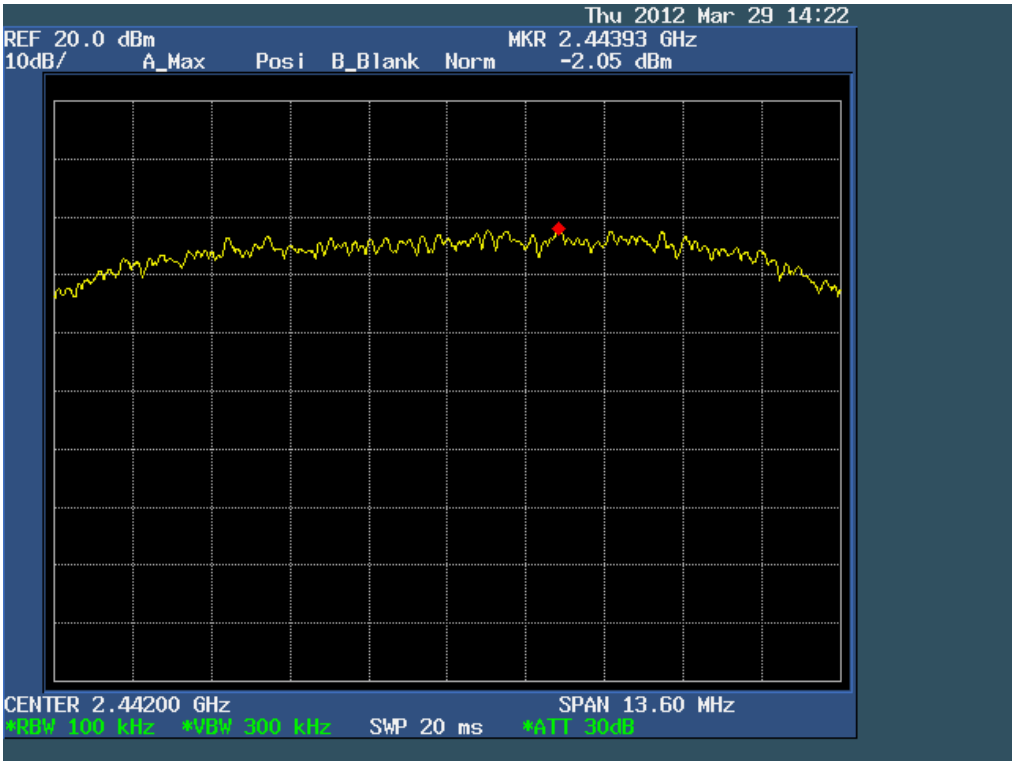
Ant 1 802.11 b

The Lowest Channel 01: 2412MHz



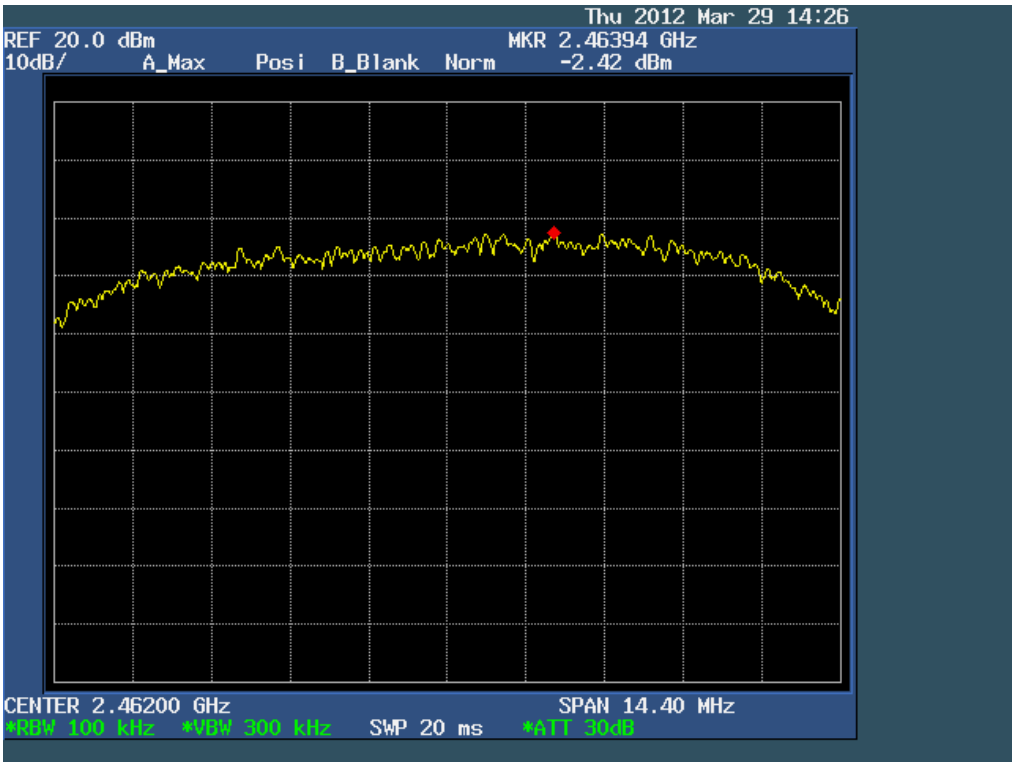
Ant 1 802.11 b

The Middle Channel 07: 2442MHz



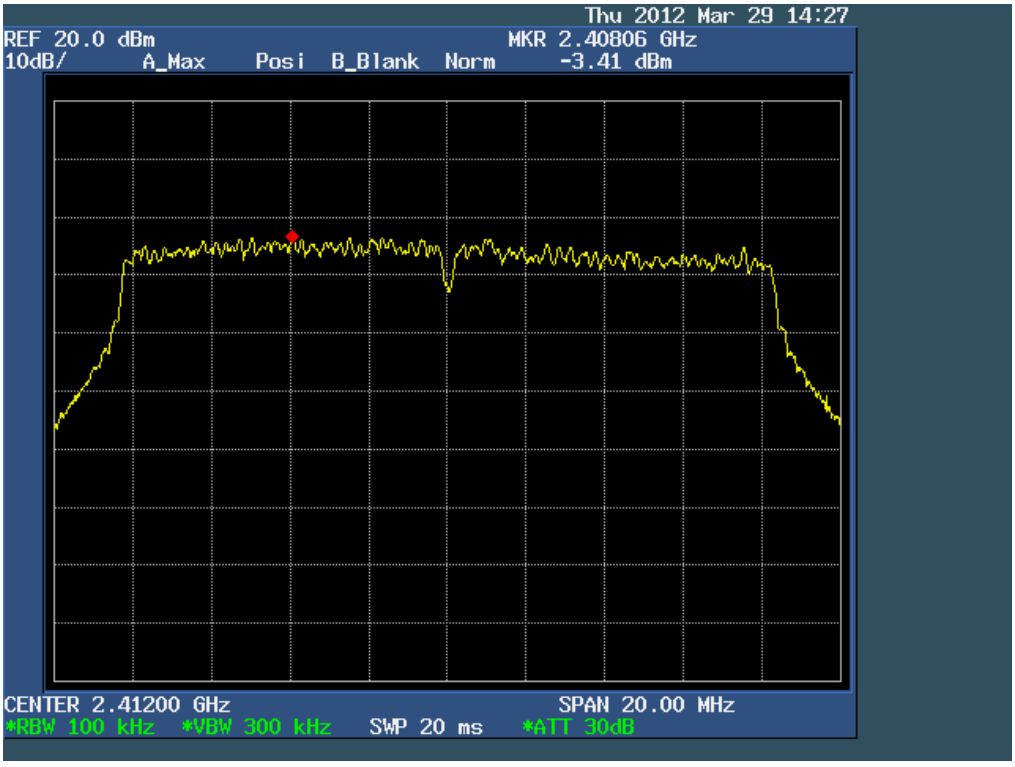
Ant 1 802.11 b

The High Channel 11: 2462MHz



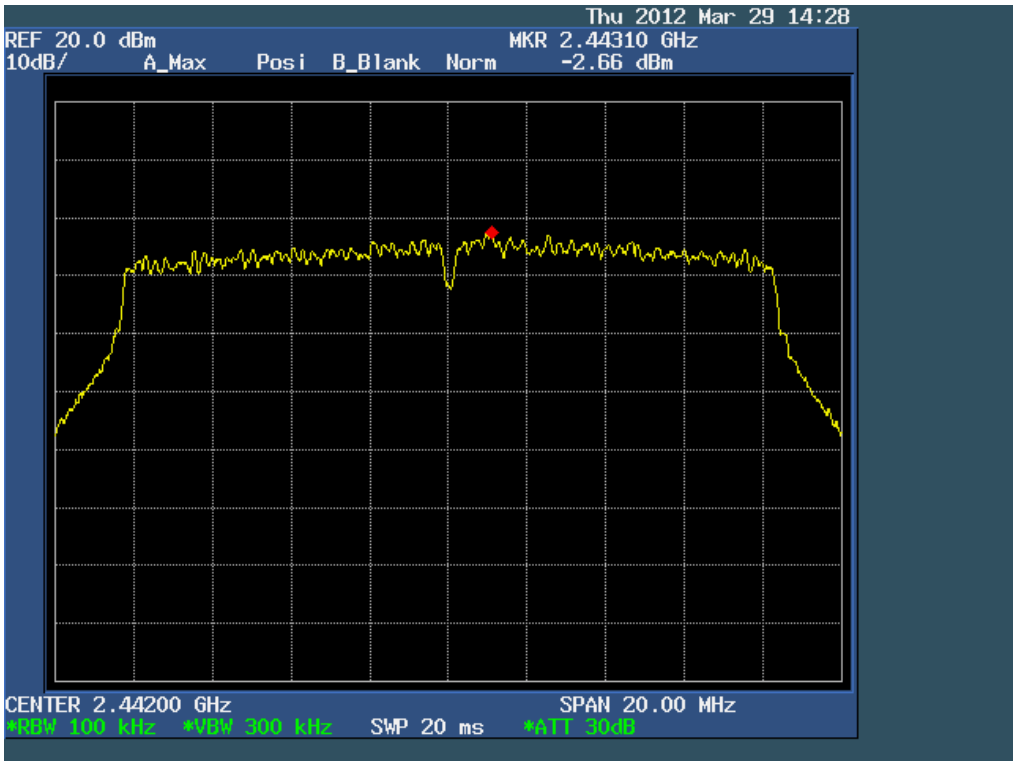
Ant 1 802.11 g

The Lowest Channel 01: 2412MHz



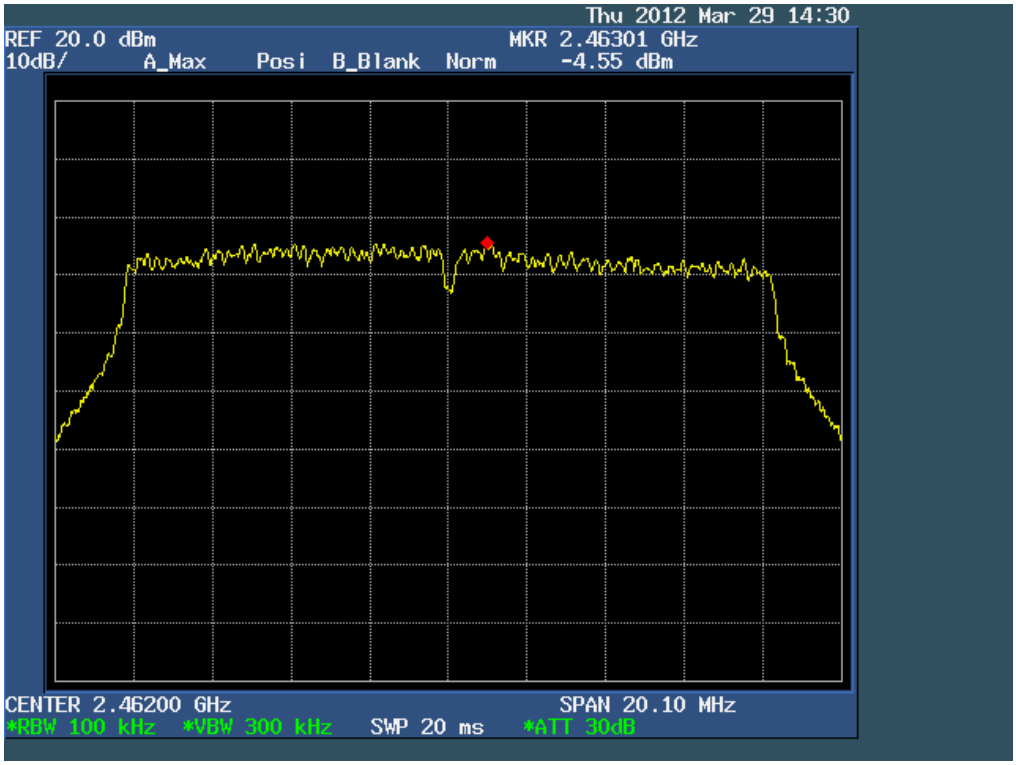
Ant 1 802.11 g

The Middle Channel 07: 2442MHz



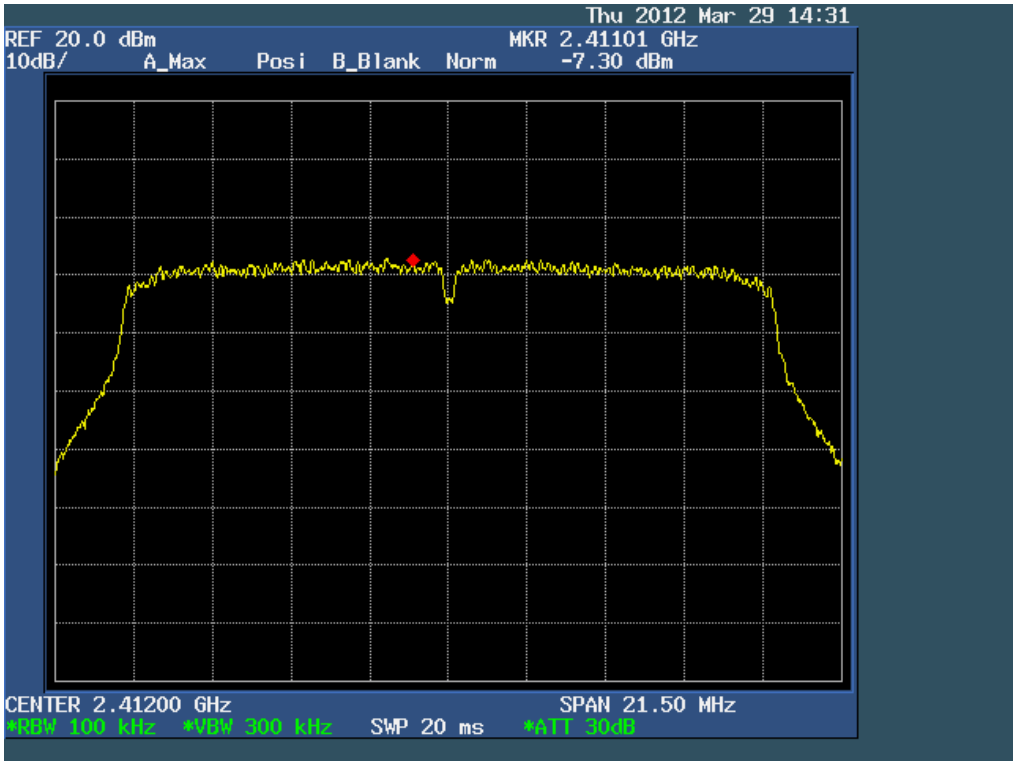
Ant 1 802.11 g

The High Channel 11: 2462MHz



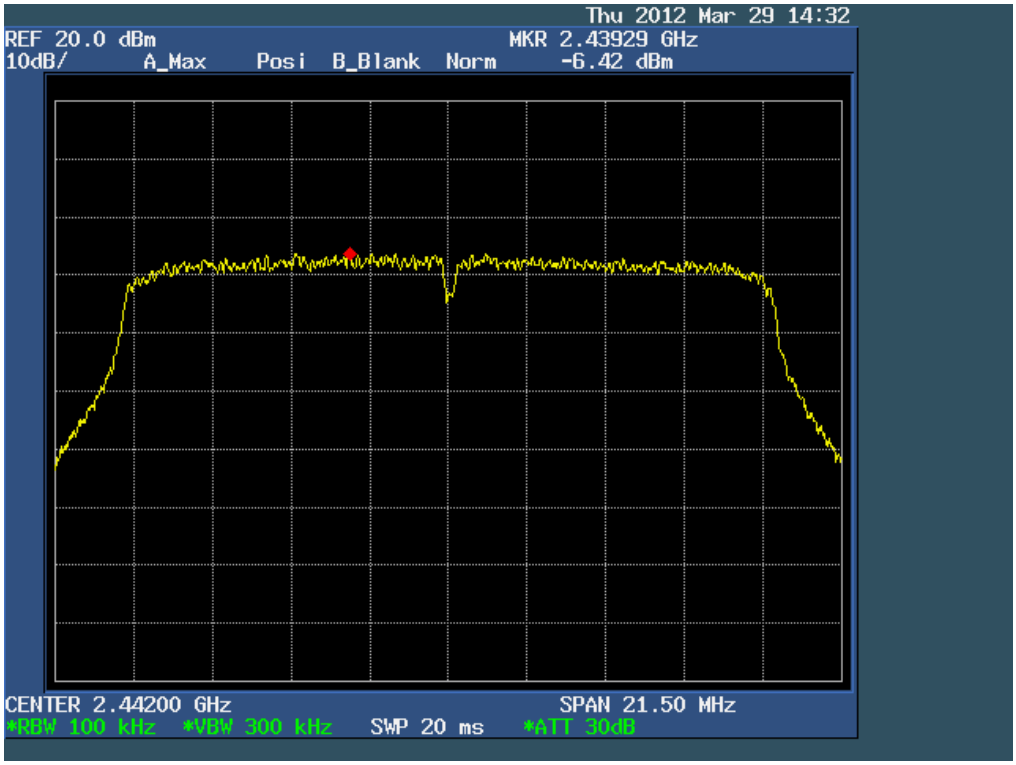
Ant 1 802.11 n(20M)

The Lowest Channel 01: 2412MHz



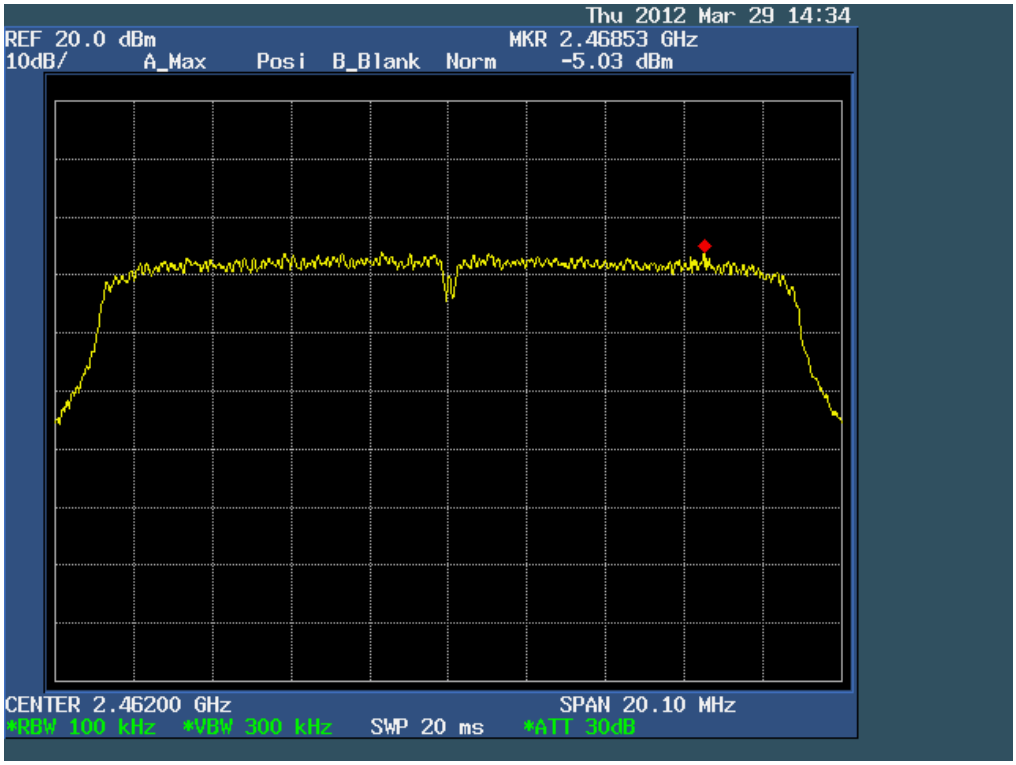
Ant 1 802.11 n(20M)

The Middle Channel 07: 2442MHz



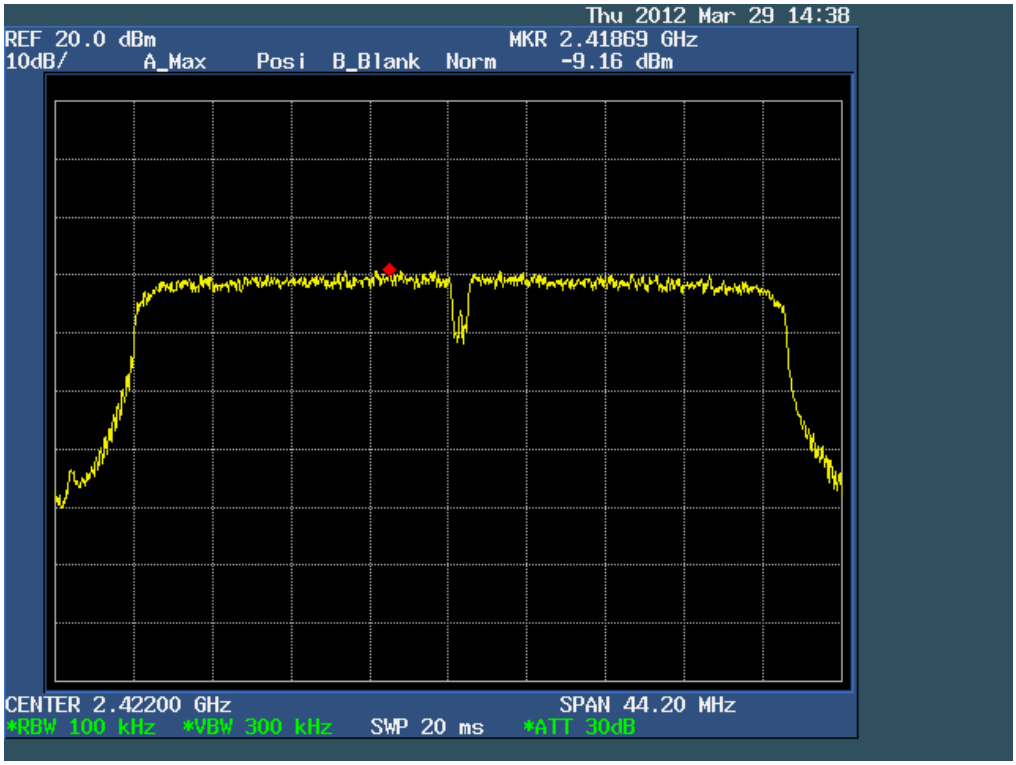
Ant 1 802.11 n(20M)

The High Channel 11: 2462MHz



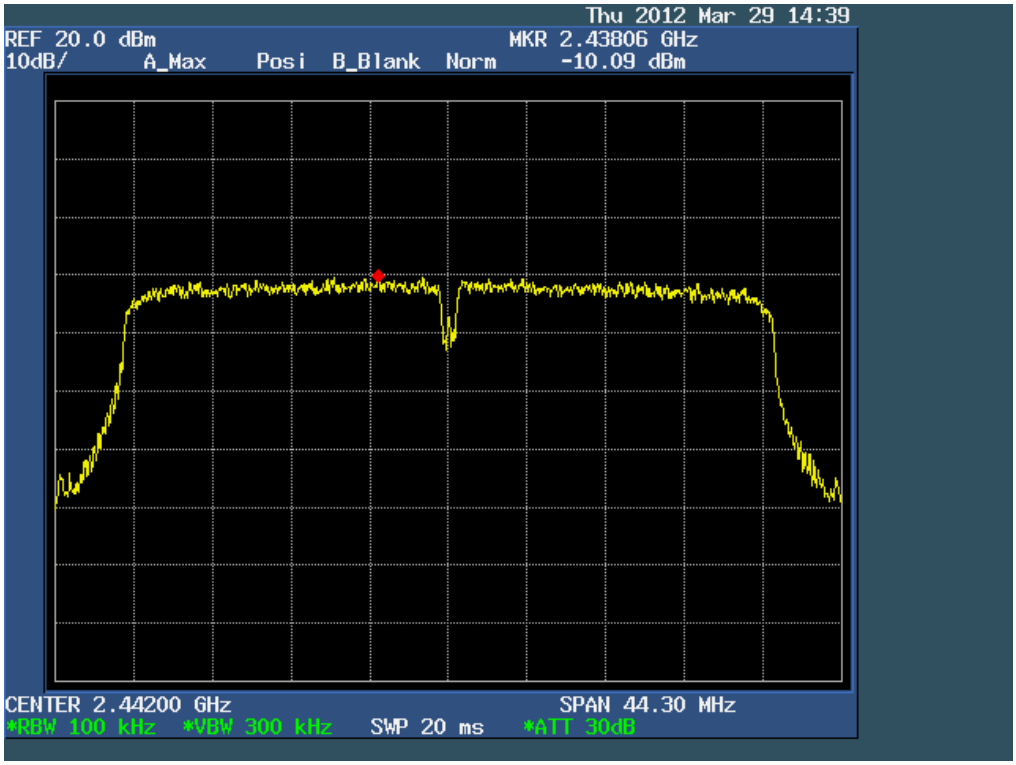
Ant 1 802.11 n(40M)

The Lowest Channel 03: 2422MHz



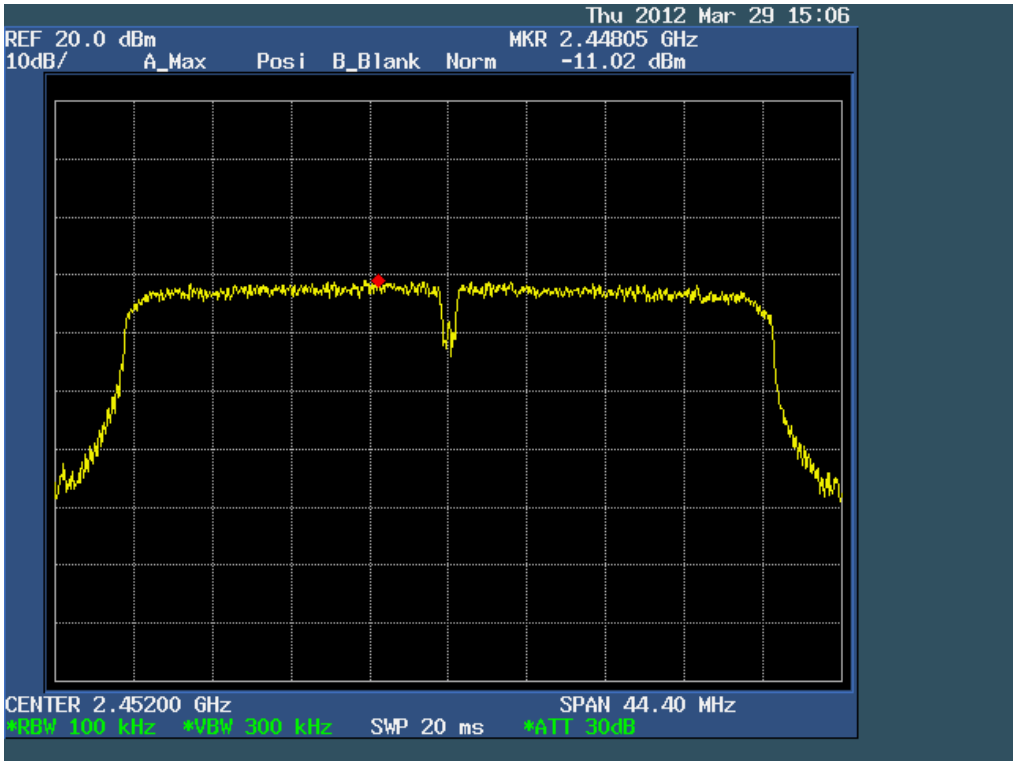
Ant 1 802.11 n(40M)

The Middle Channel 07: 2442MHz

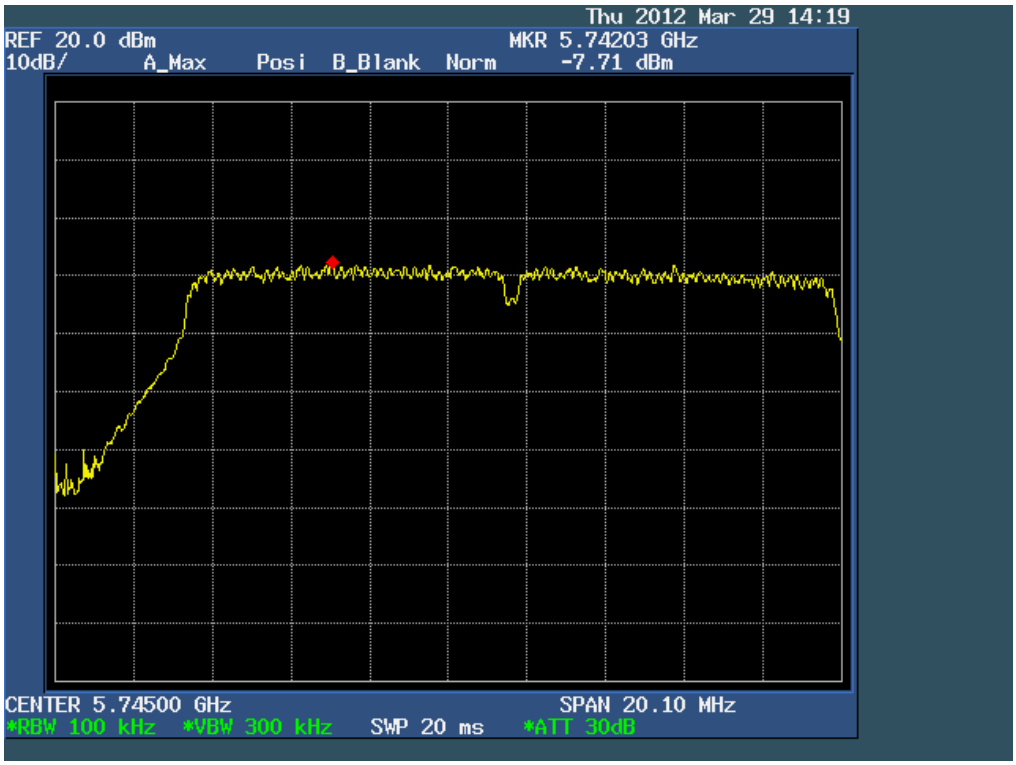


Ant 1 802.11 n(40M)

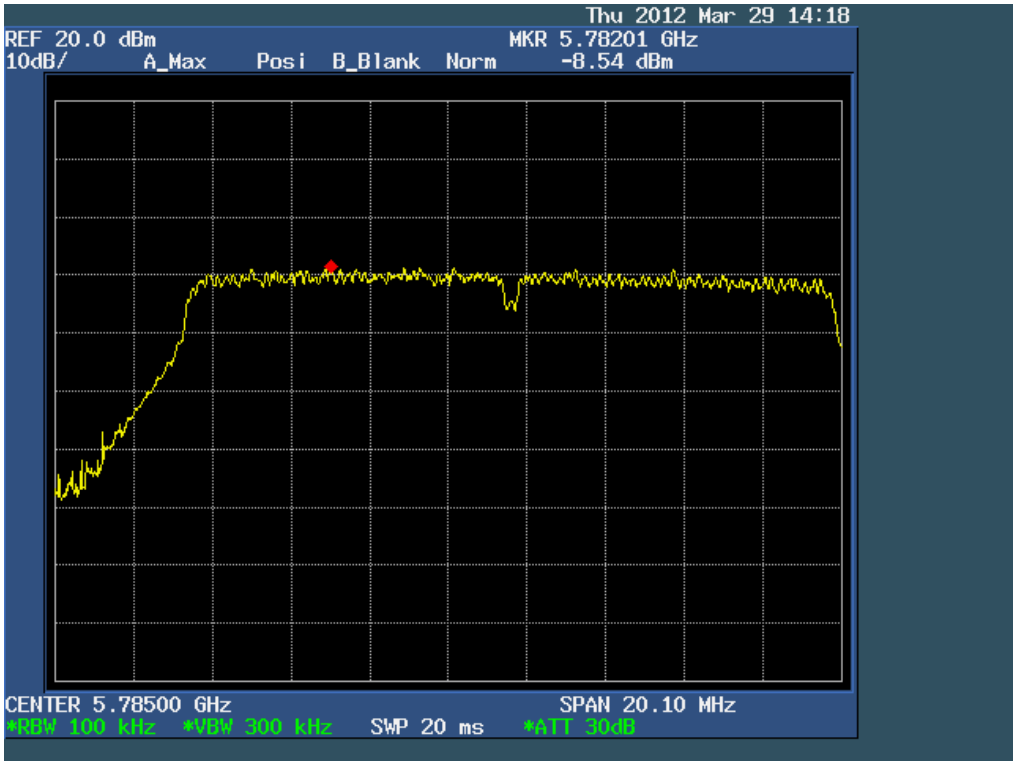
The High Channel 09: 2452MHz



Ant 1 802.11a (5.725GHz-5.850GHz)
The Lowest Channel 149: 5745MHz

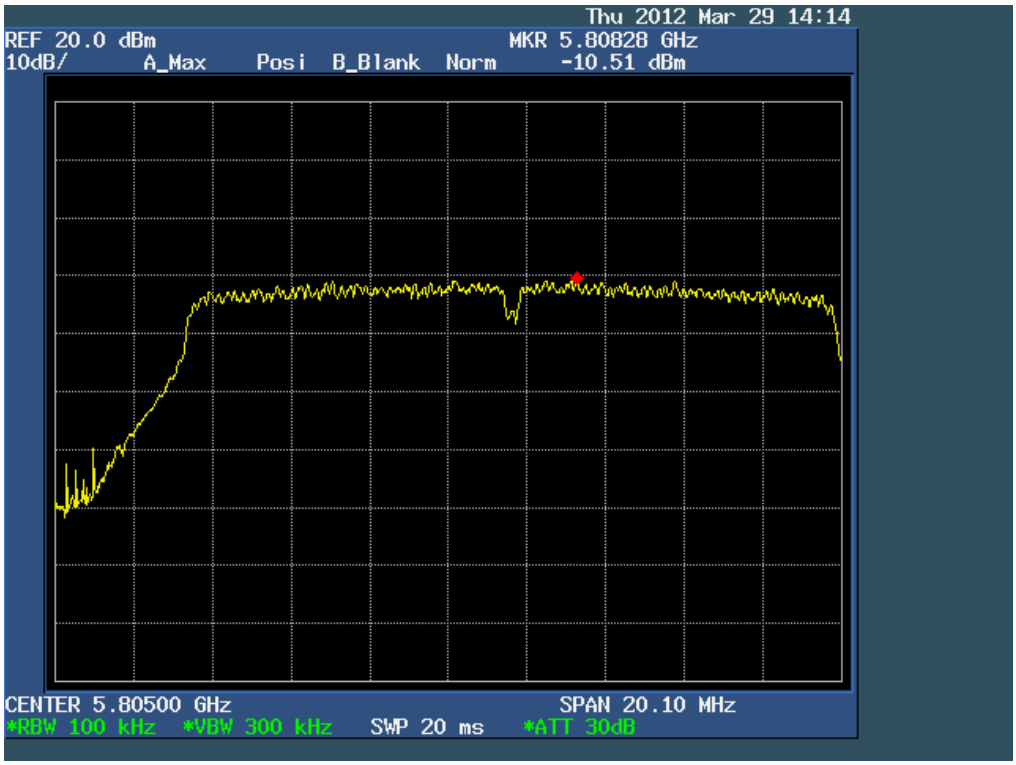


Ant 1 802.11a (5.725GHz-5.850GHz)
The Middle Channel 157: 5785MHz



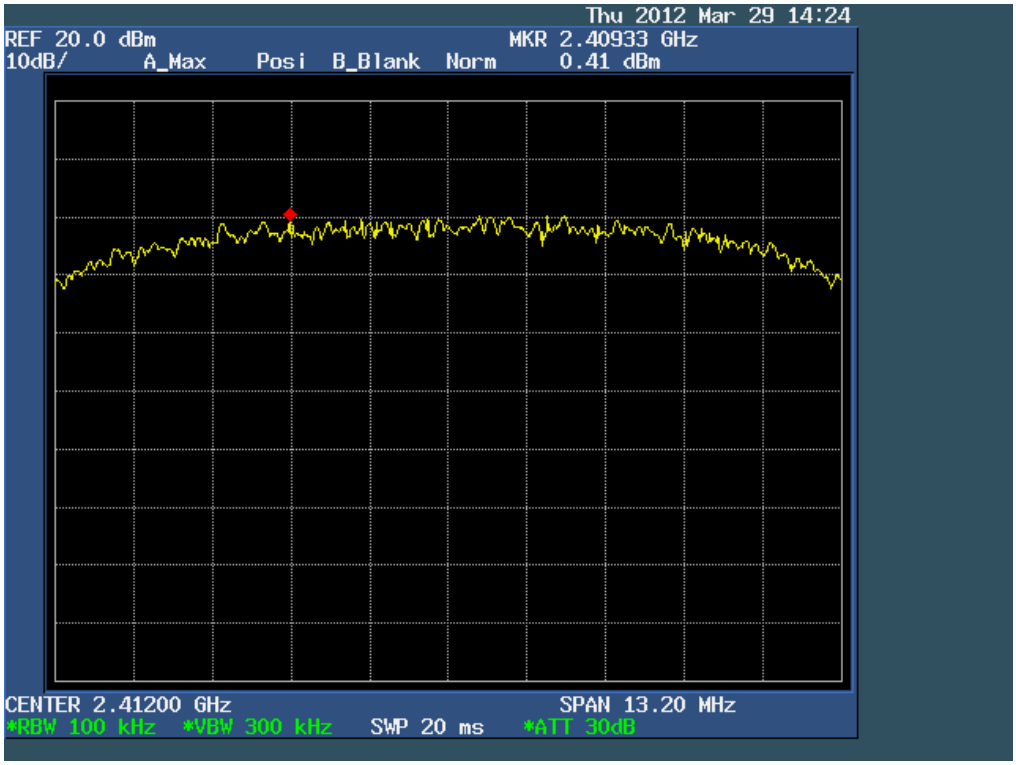
Ant 1 802.11a (5.725GHz-5.850GHz)

The High Channel 161: 5805MHz



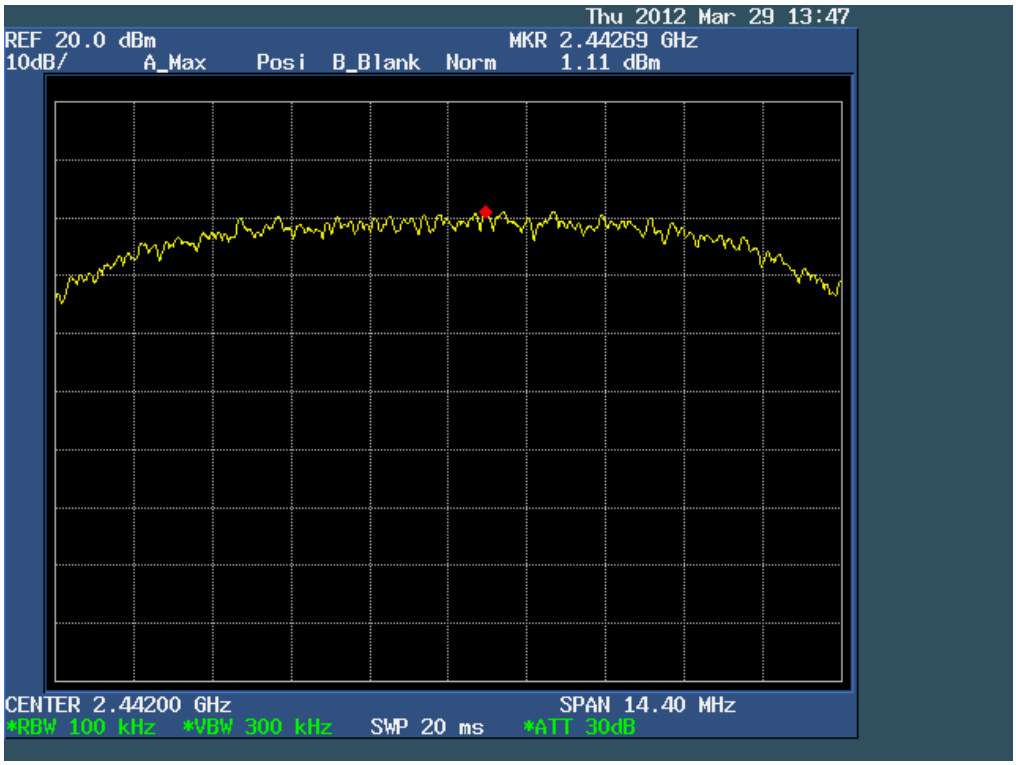
Ant 2 802.11b

The Lowest Channel 01: 2412MHz



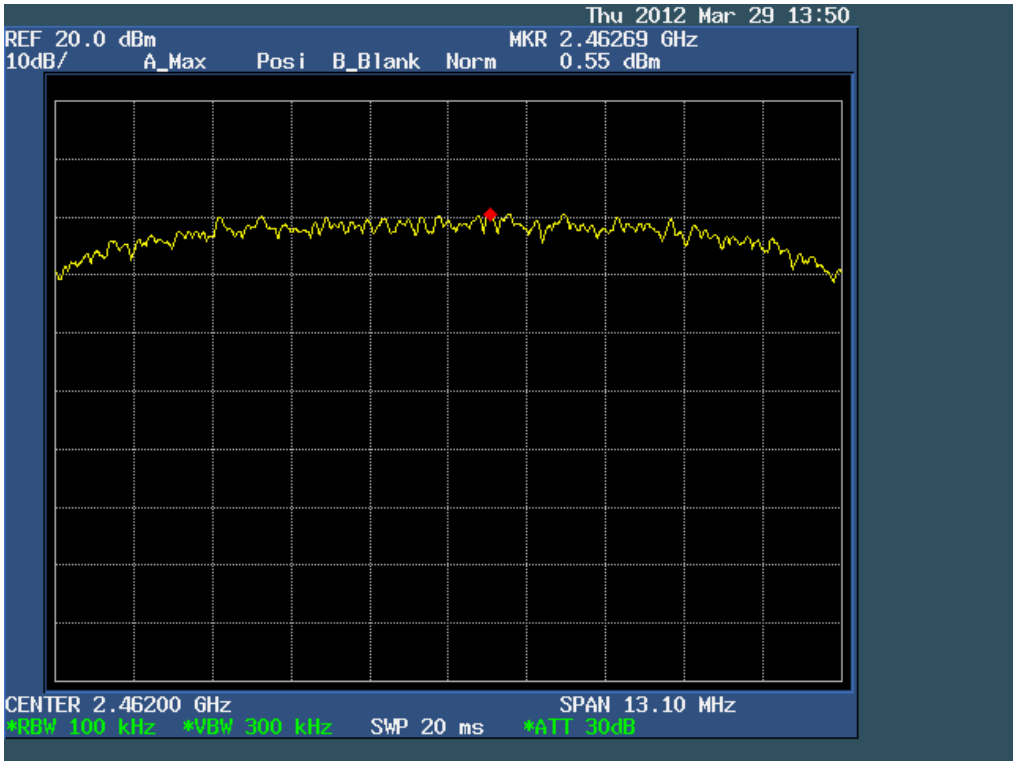
Ant 2 802.11b

The Middle Channel 07: 2442MHz



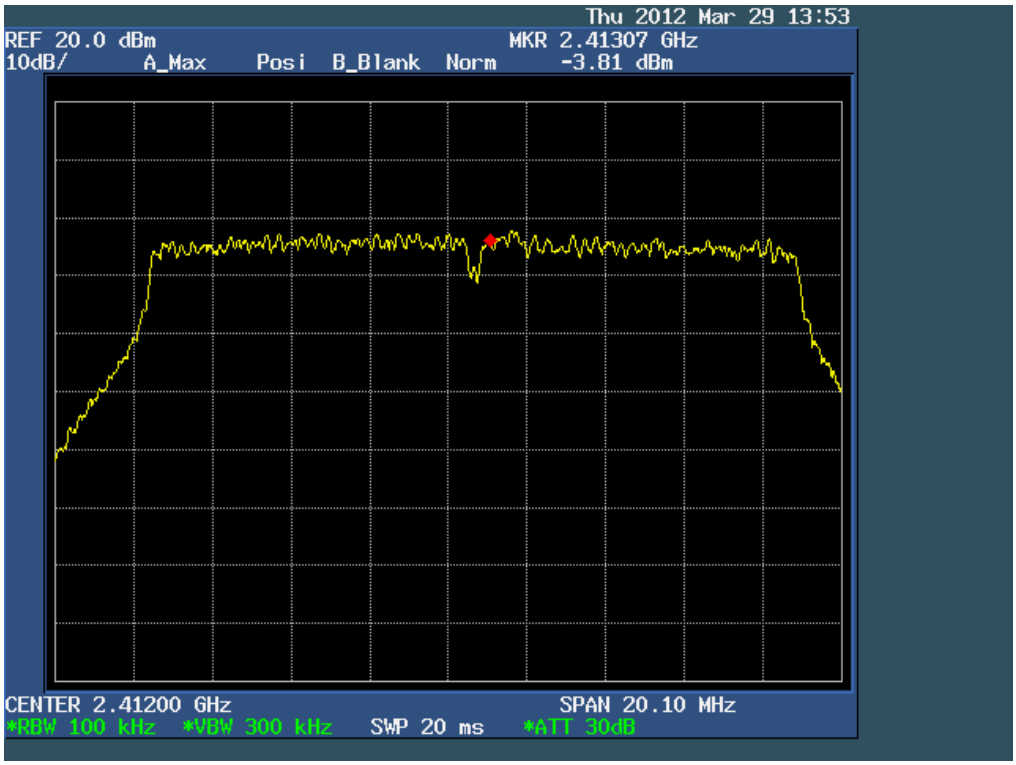
Ant 2 802.11b

The High Channel 11: 2462MHz



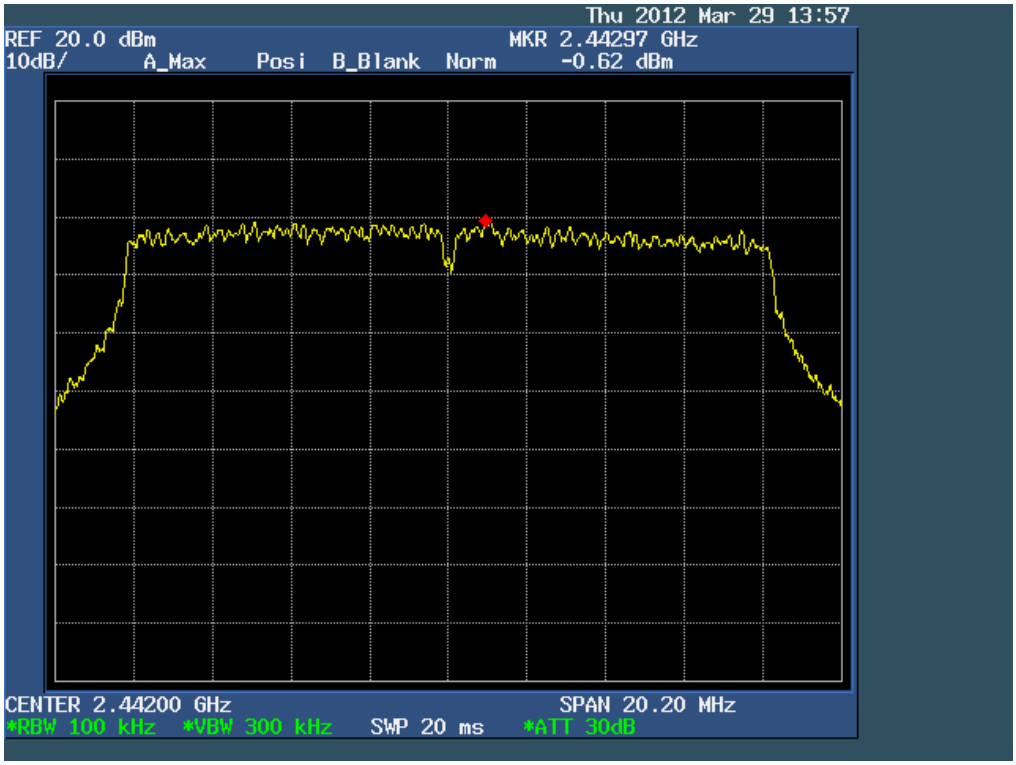
Ant 2 802.11g

The Lowest Channel 01: 2412MHz



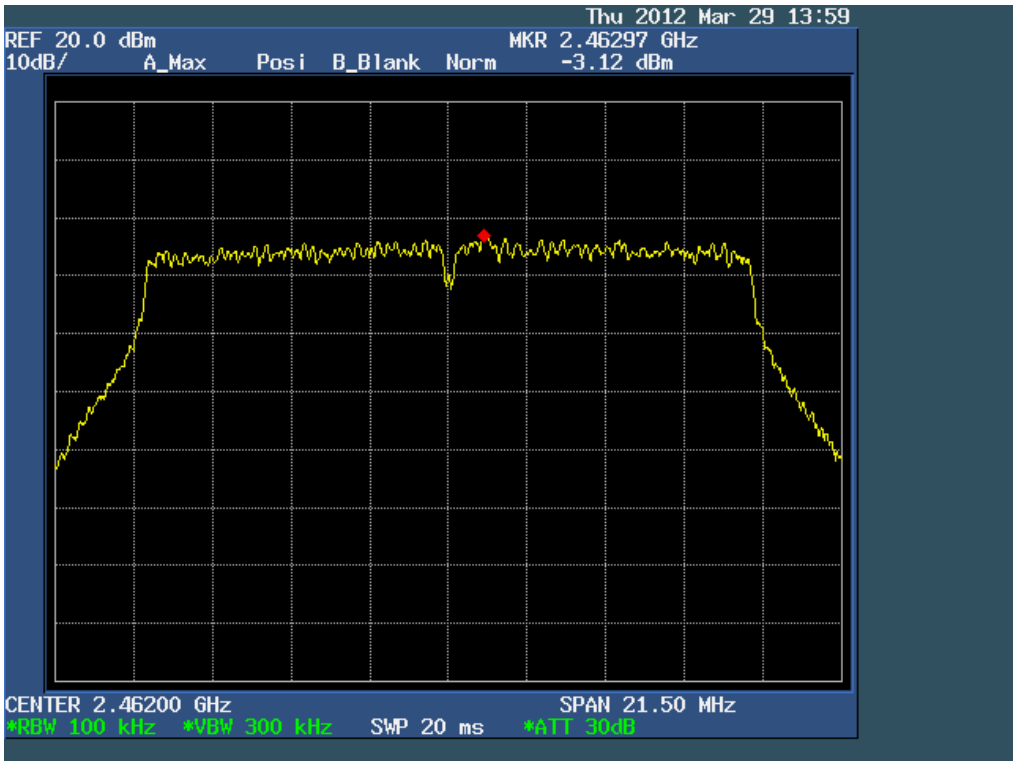
Ant 2 802.11g

The Middle Channel 07: 2442MHz



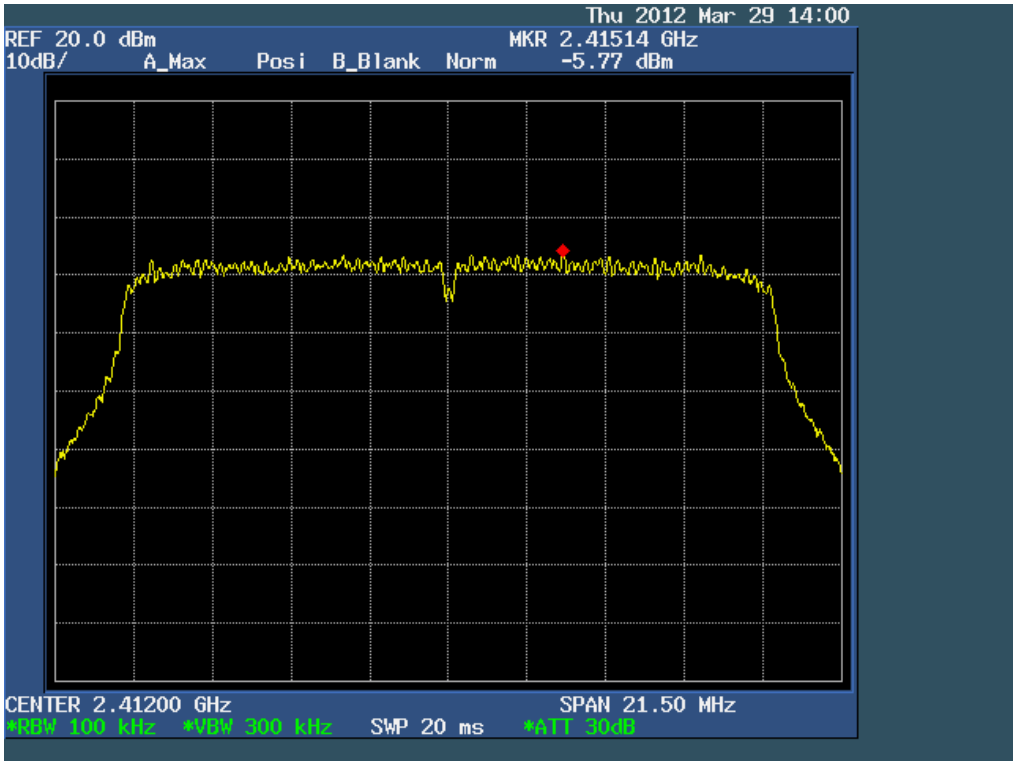
Ant 2 802.11g

The High Channel 11: 2462MHz



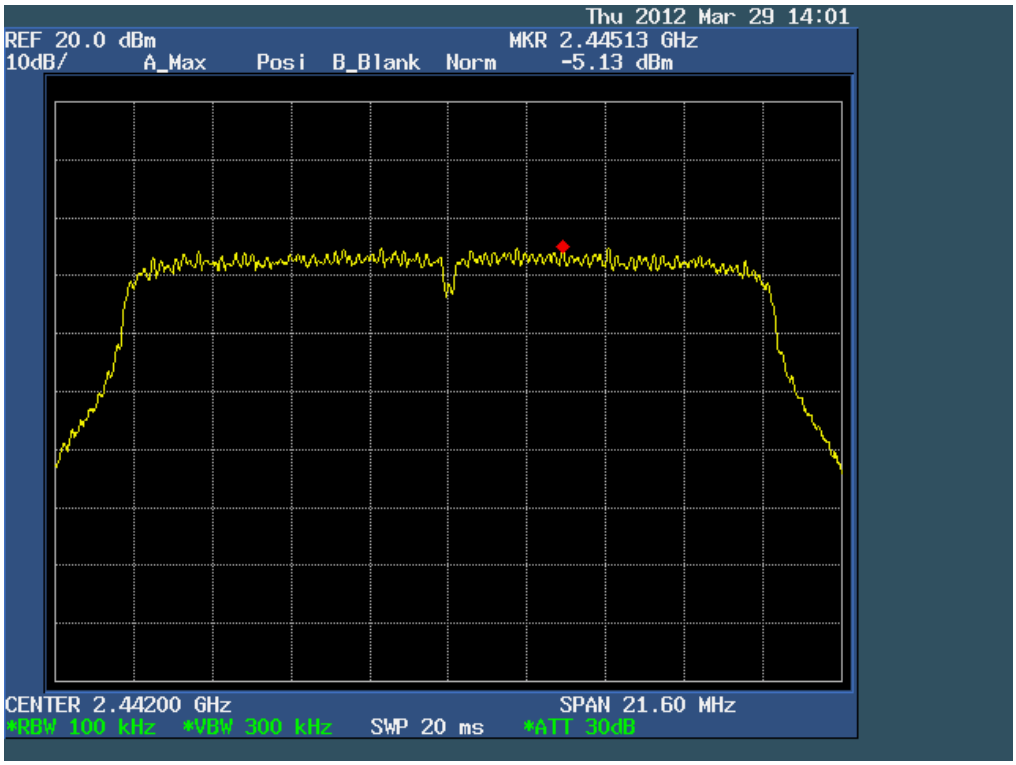
Ant 2 802.11n(20M)

The Lowest Channel 01: 2412MHz



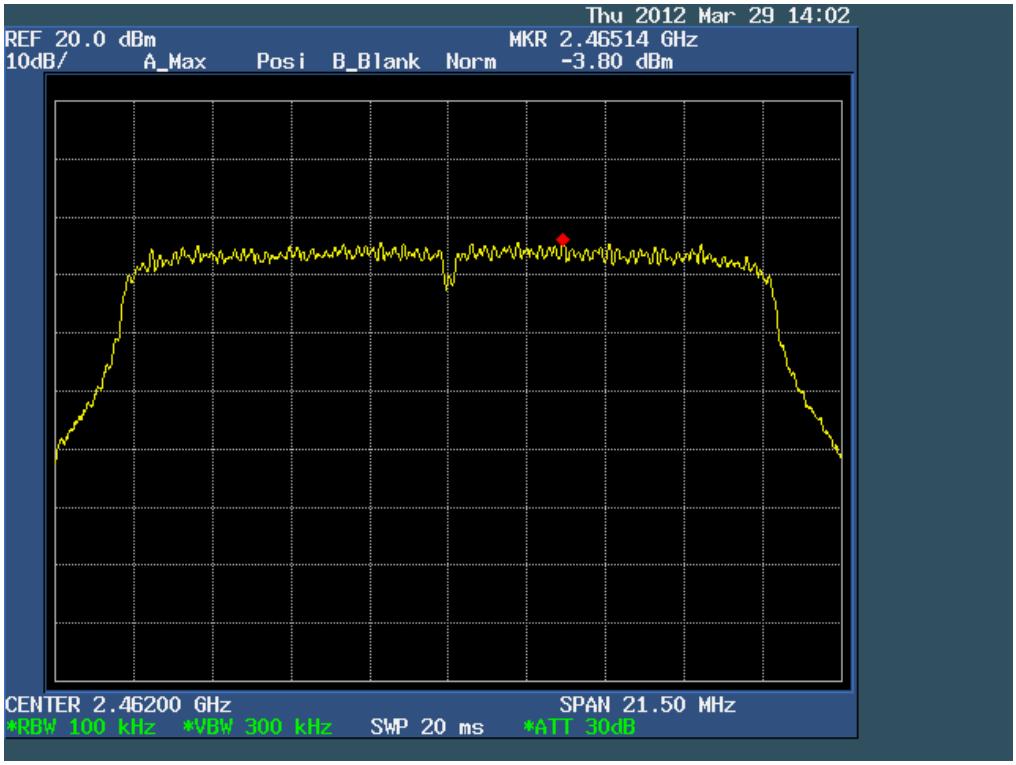
Ant 2 802.11n(20M)

The Middle Channel 07: 2442MHz



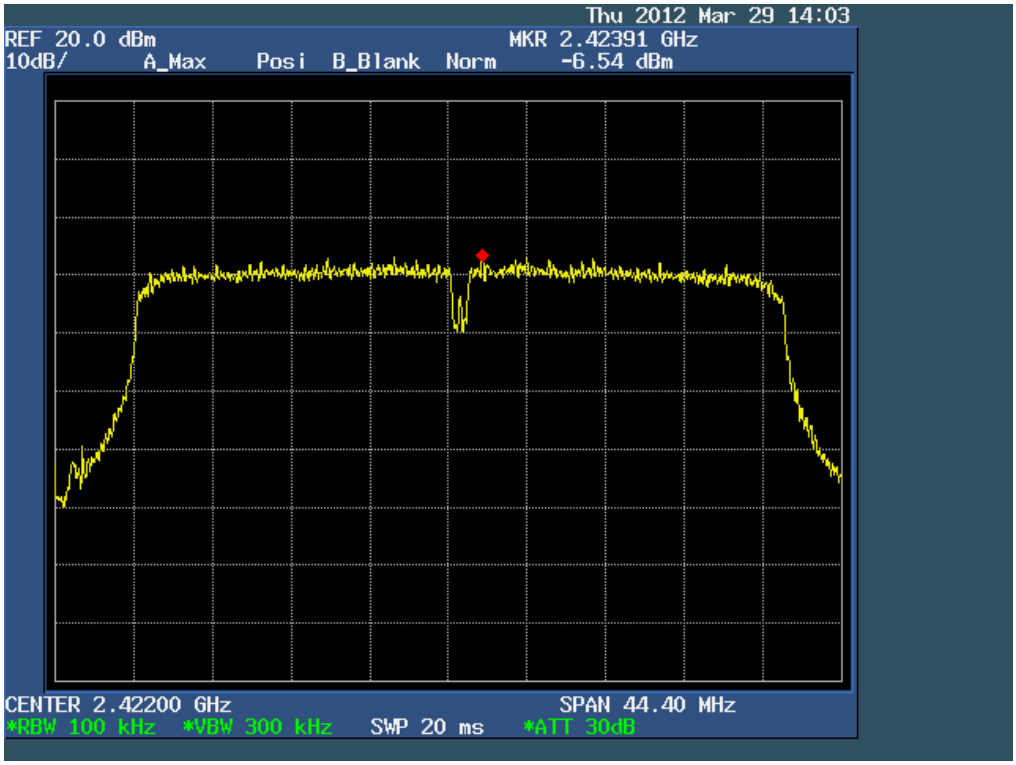
Ant 2 802.11n(20M)

The High Channel 11: 2462MHz



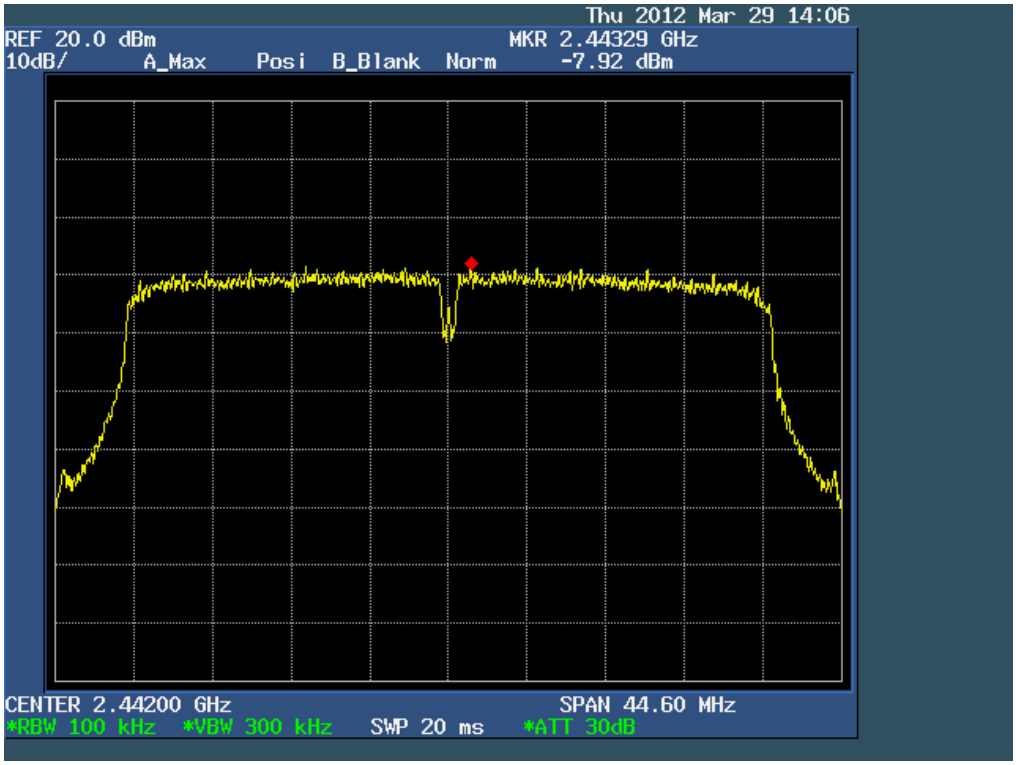
Ant 2 802.11n (40M)

The Lowest Channel 03: 2422MHz



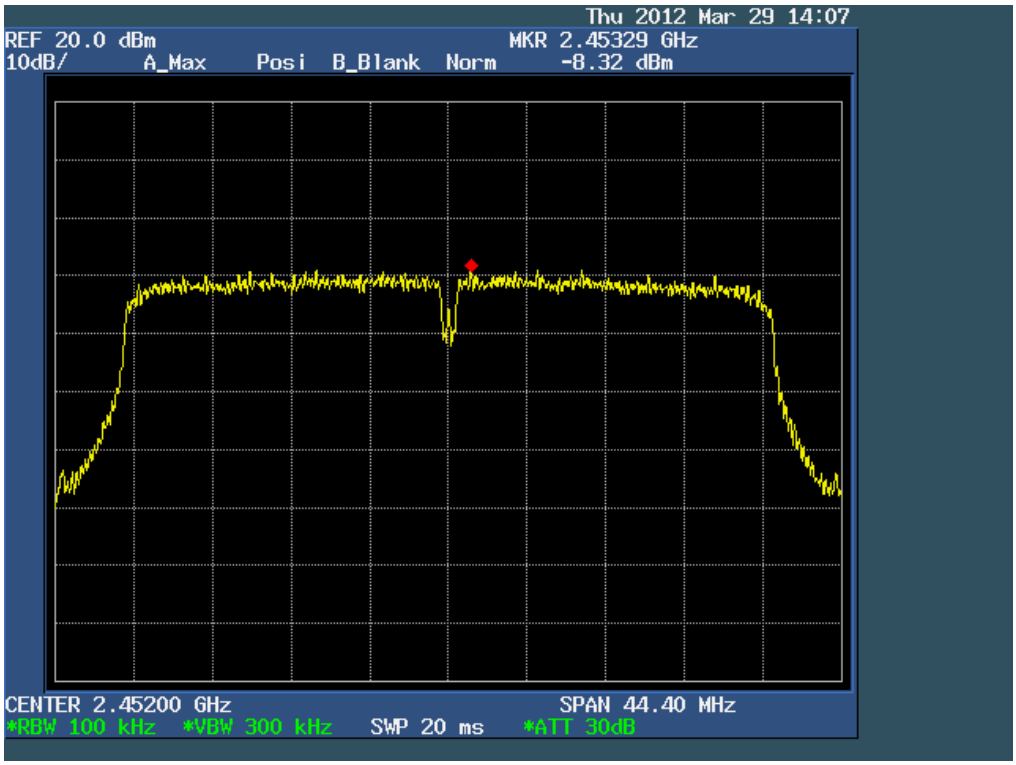
Ant 2 802.11n (40M)

The Middle Channel 07: 2442MHz



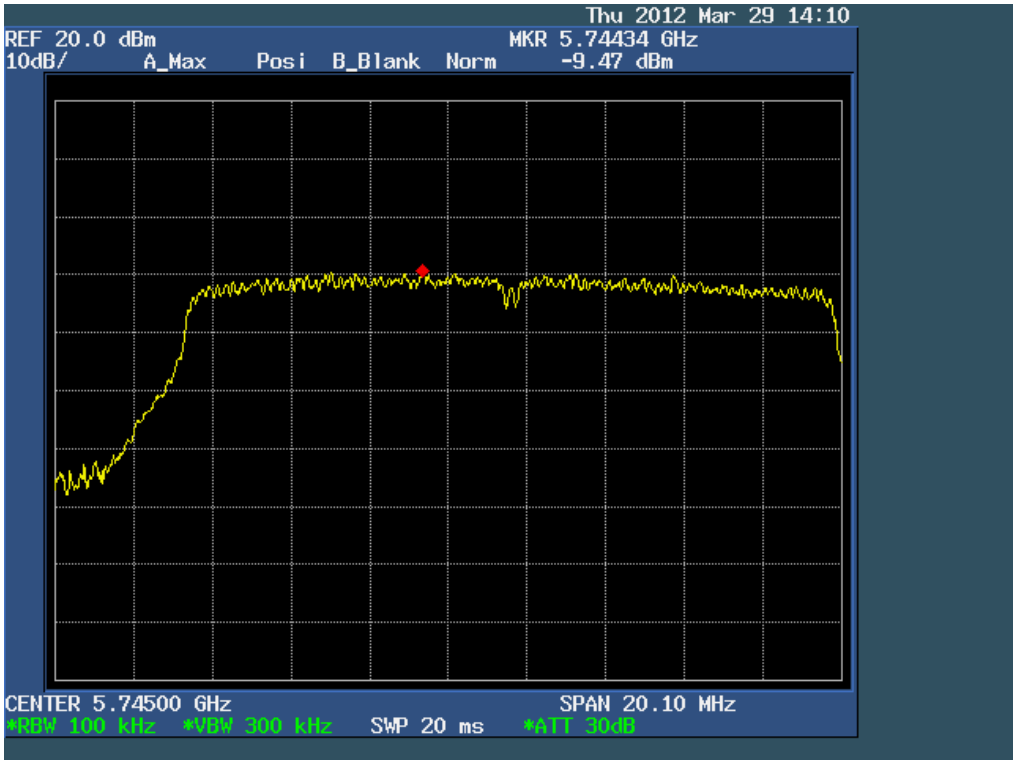
Ant 2 802.11n (40M)

The Middle Channel 09: 2452MHz

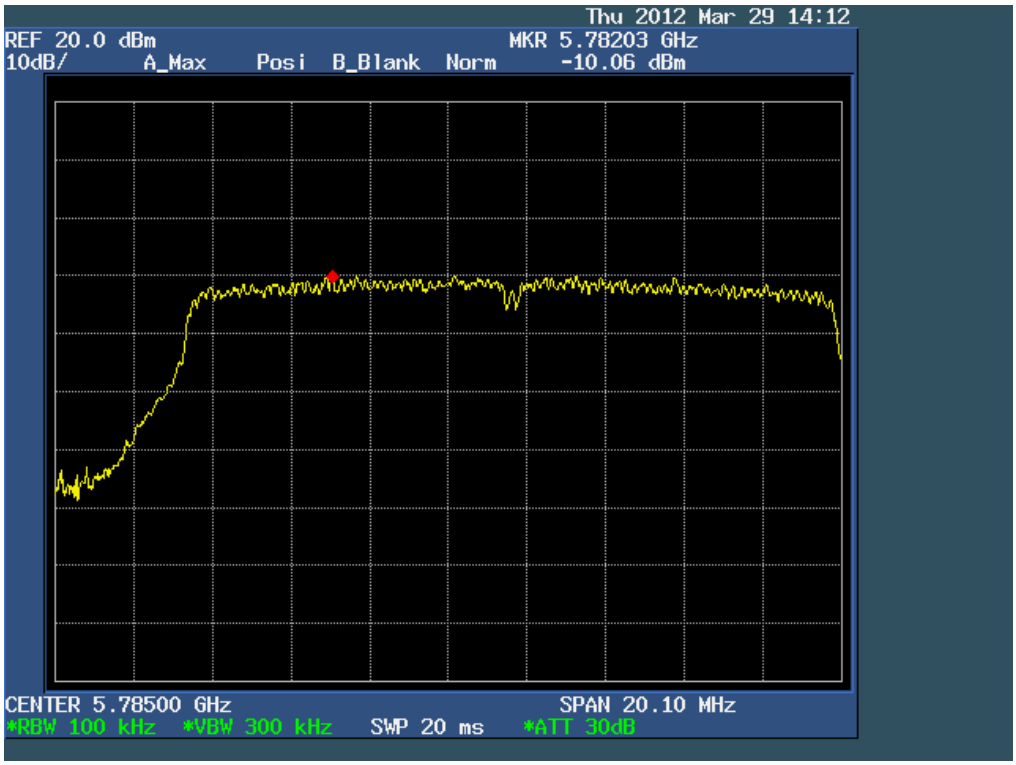


Ant 2 802.11a (5.745GHz-5.850GHz)

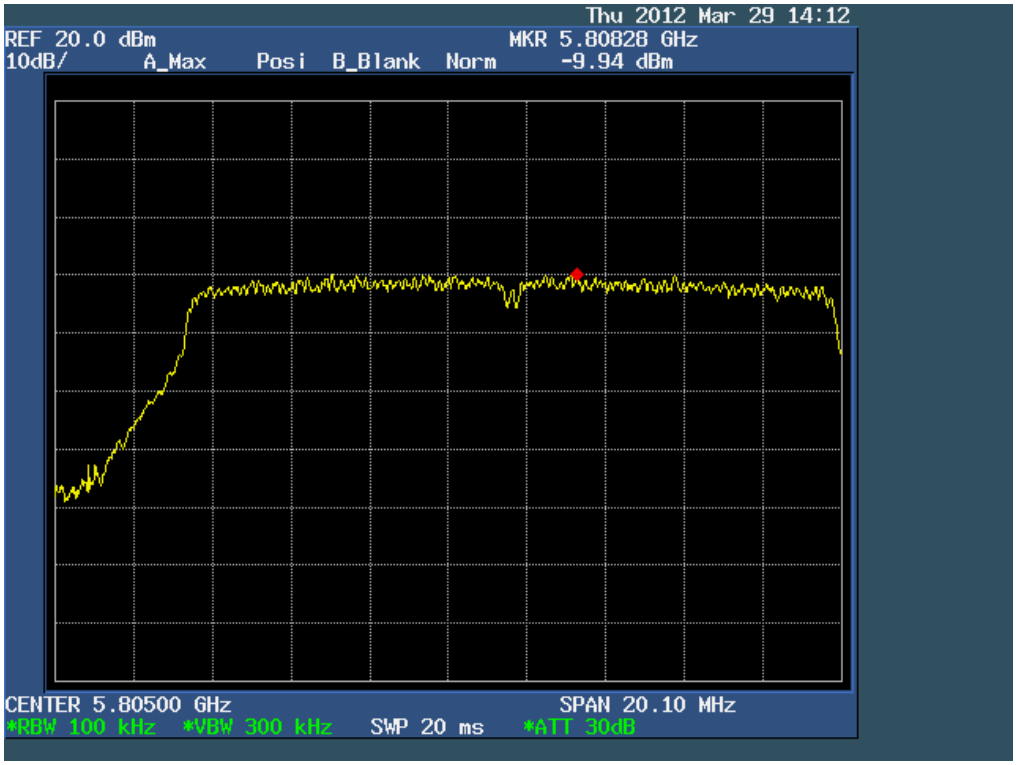
The Lowest Channel 149: 5745MHz



Ant 2 802.11a (5.745GHz-5.850GHz)
The Middle Channel 157: 5785MHz



Ant 2 802.11a (5.745GHz-5.850GHz)
The High Channel 161: 5805MHz



6.6 Maximum Peak Output Power

6.6.1 Applied procedures / Limit

15.247(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

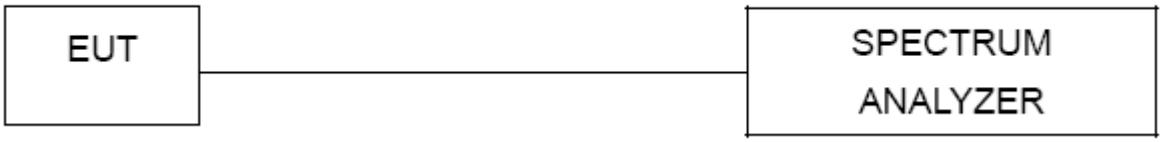
6.6.2 Test procedure

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.

6.6.3 Deviation from standard

No deviation.

6.6.4 Test setup



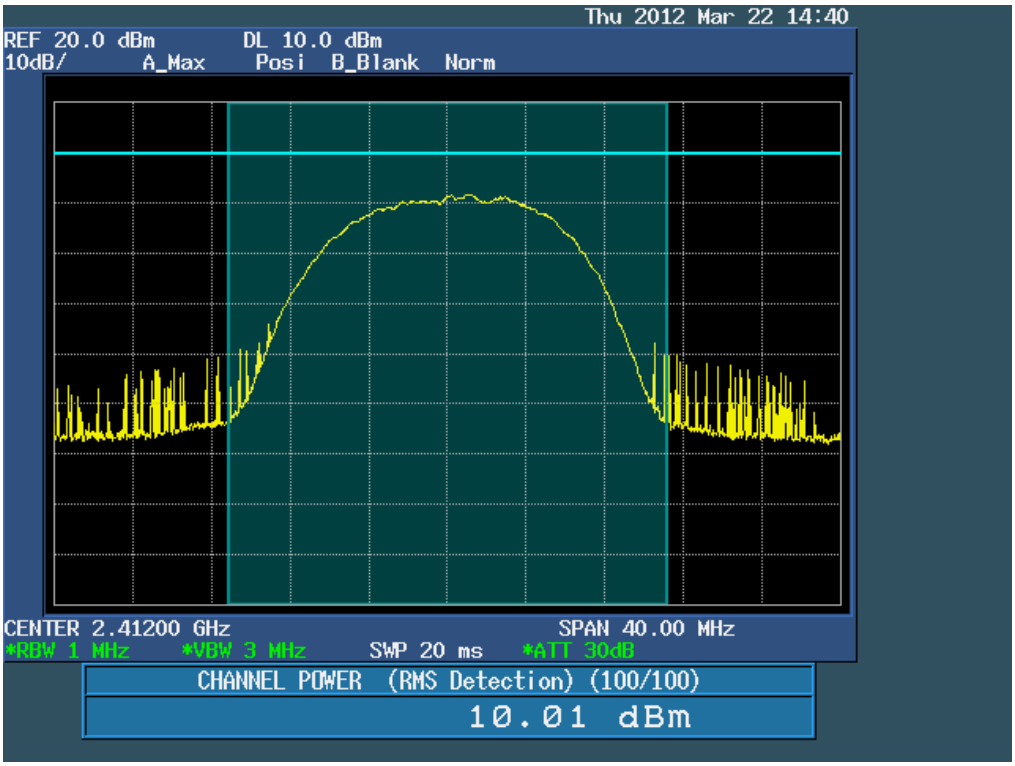
6.6.5 Test results

EUT：	LCD Monitor	Model Name ：	DW271HL
Temperature：	22 ℃	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
802.11b Data rate 1Mbps	2412 MHz	10.01	9.26	10.01+9.26=12.26	30	Pass
	2442 MHz	8.25	8.88	8.25+8.88=11.56	30	Pass
	2462 MHz	9.49	9.35	9.49+9.35=12.24	30	Pass
802.11g Data rate 6Mbps	2412 MHz	9.93	9.56	9.93+9.56=12.82	30	Pass
	2442 MHz	9.94	10.82	9.94+10.82=13.07	30	Pass
	2462 MHz	10.21	10.65	10.21+10.65=13.33	30	Pass
802.11n(20M) Data rate 7.2Mbps	2412 MHz	9.54	9.62	9.54+9.62=12.37	30	Pass
	2442 MHz	8.51	8.10	8.51+8.10=11.08	30	Pass
	2462 MHz	8.70	9.11	8.70+9.11=11.33	30	Pass
802.11n(40M) Data rate 7.2Mbps	2422 MHz	9.09	9.47	9.09+9.47=12.36	30	Pass
	2442 MHz	8.12	9.09	8.12+9.09=11.34	30	Pass
	2452 MHz	7.12	7.82	7.12+7.82=10.50	30	Pass
802.11a (5.725GHz-5.850 GHz) Data rate 6Mbps	5745 MHz	8.10	7.93	8.10+7.93=10.85	30	Pass
	5785 MHz	7.45	7.63	7.45+7.63=10.38	30	Pass
	5805 MHz	9.19	8.41	9.19+8.41=11.76	30	Pass

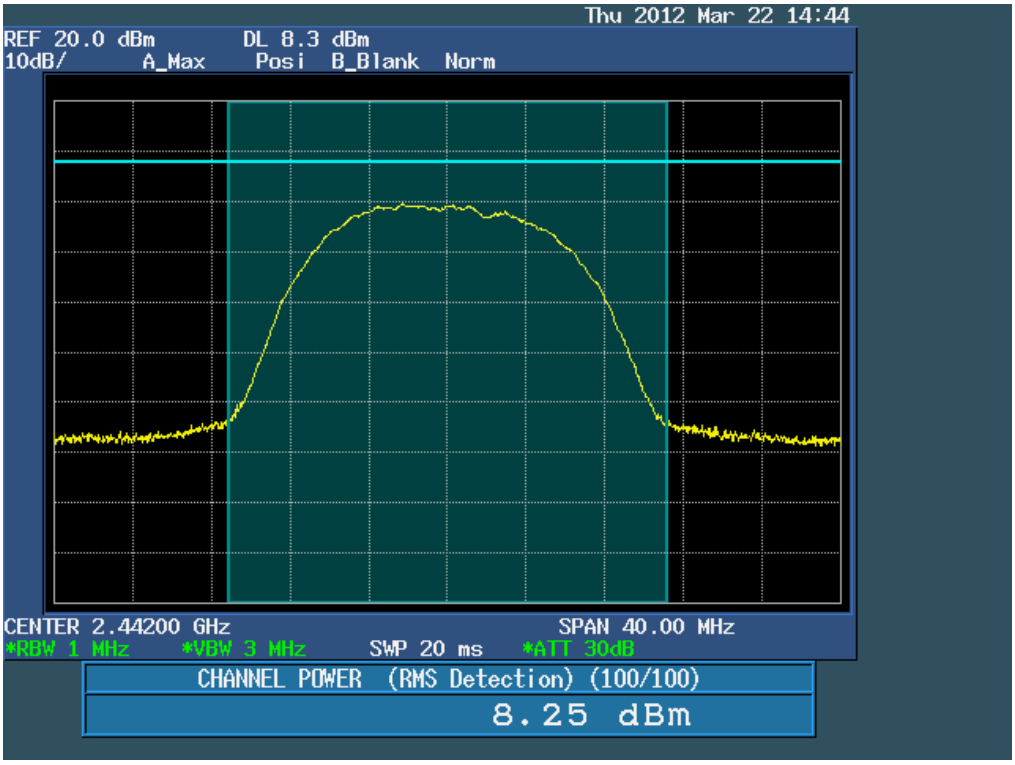
Ant 1 802.11b

The Lowest Channel 01: 2412MHz



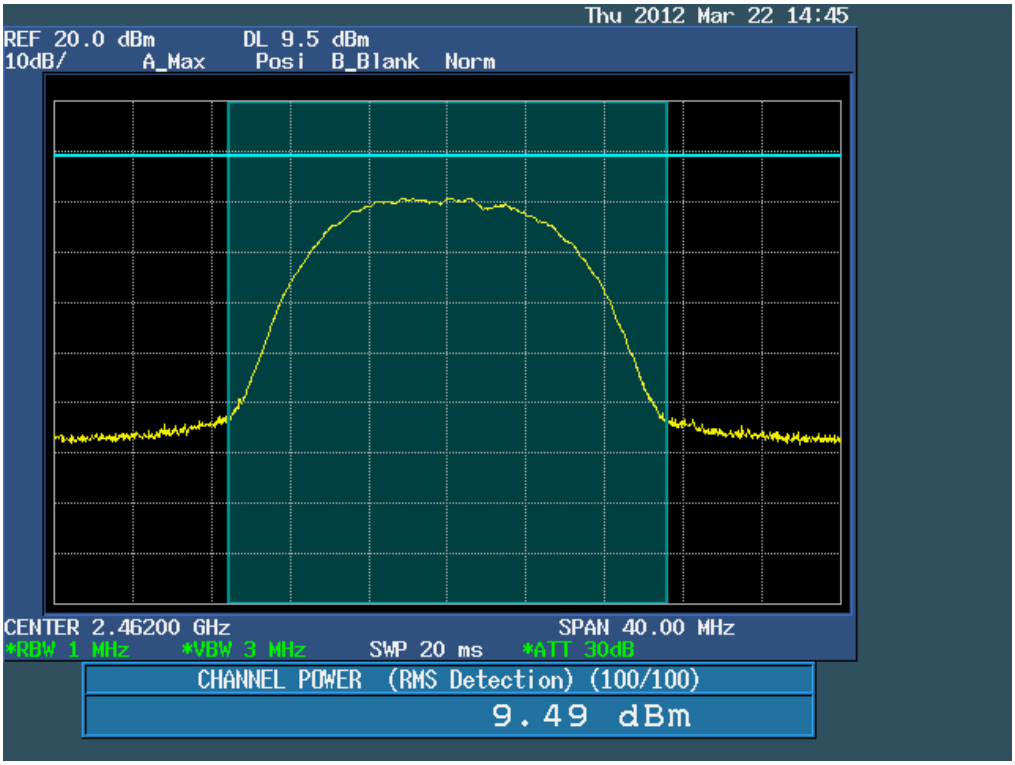
Ant 1 802.11b

The Middle Channel 07: 2442MHz



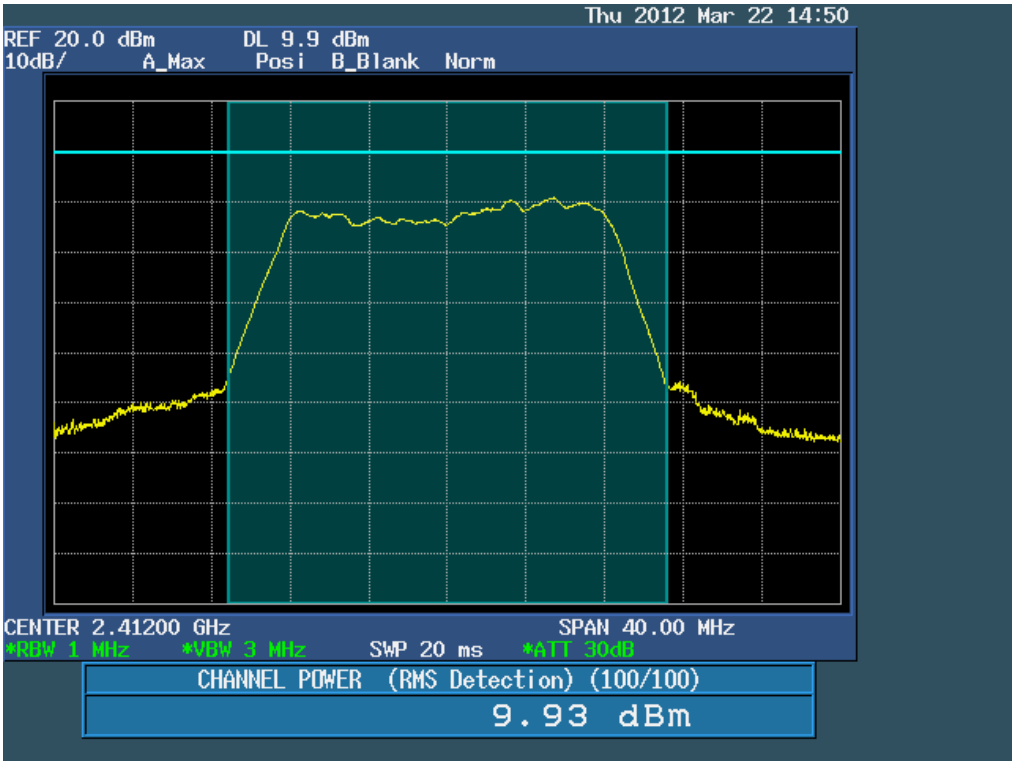
Ant 1 802.11b

The High Channel 11: 2462MHz



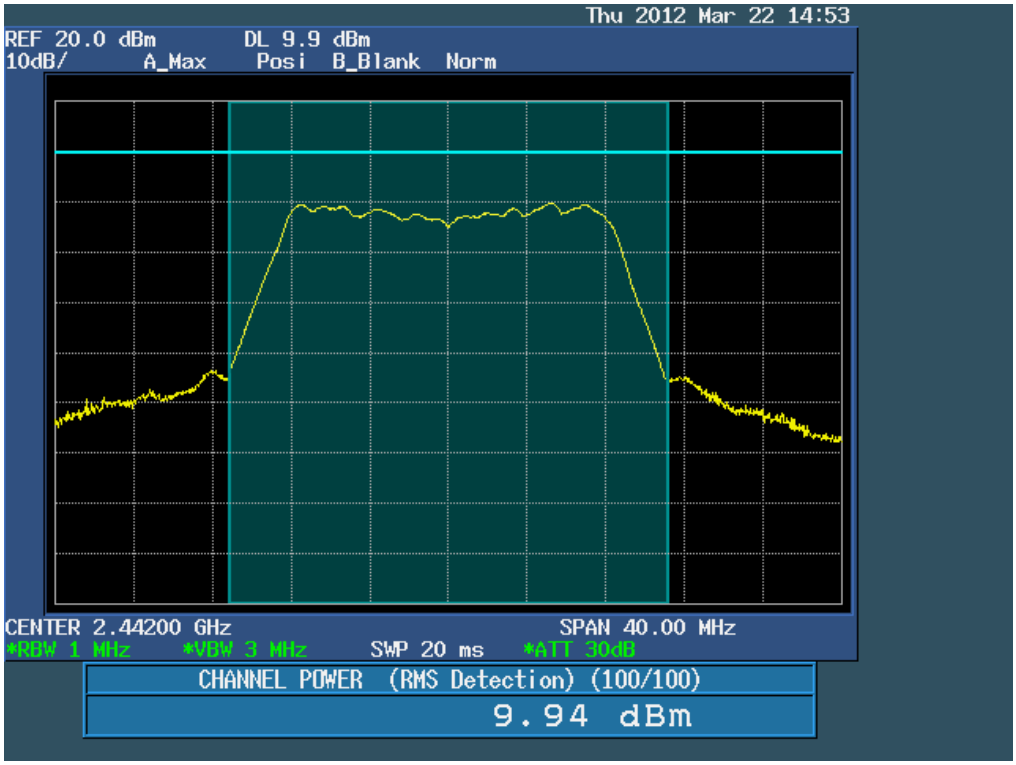
Ant 1 802.11g

The Lowest Channel 01: 2412MHz



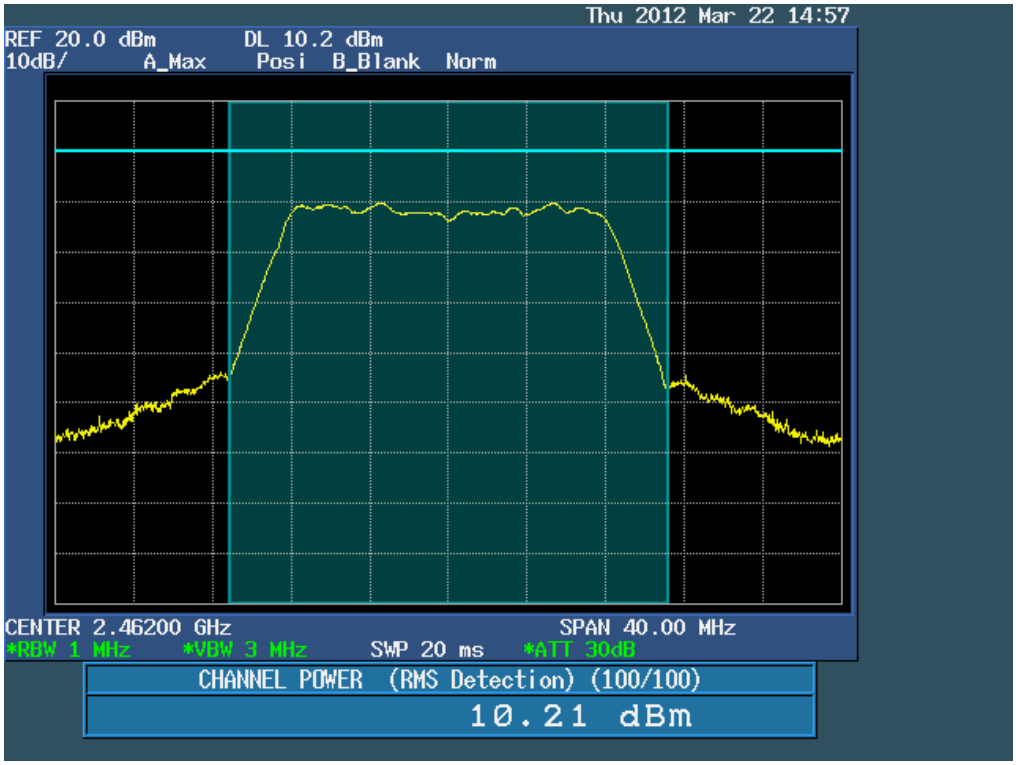
Ant 1 802.11g

The Middle Channel 07: 2442MHz



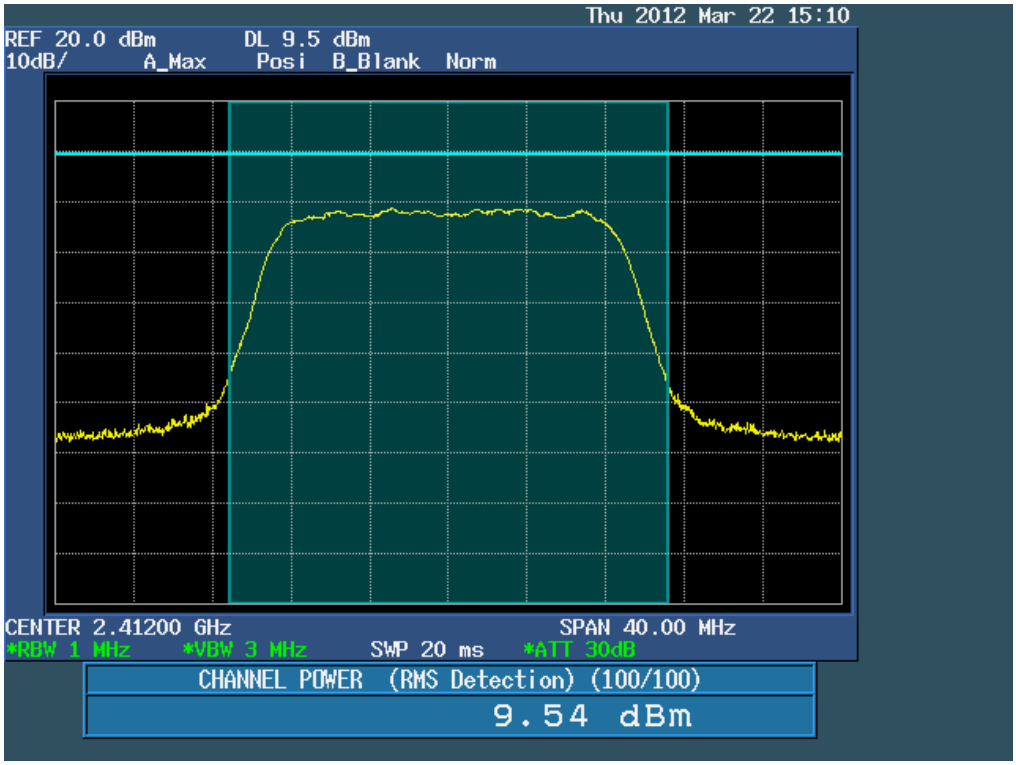
Ant 1 802.11g

The High Channel 11: 2462MHz



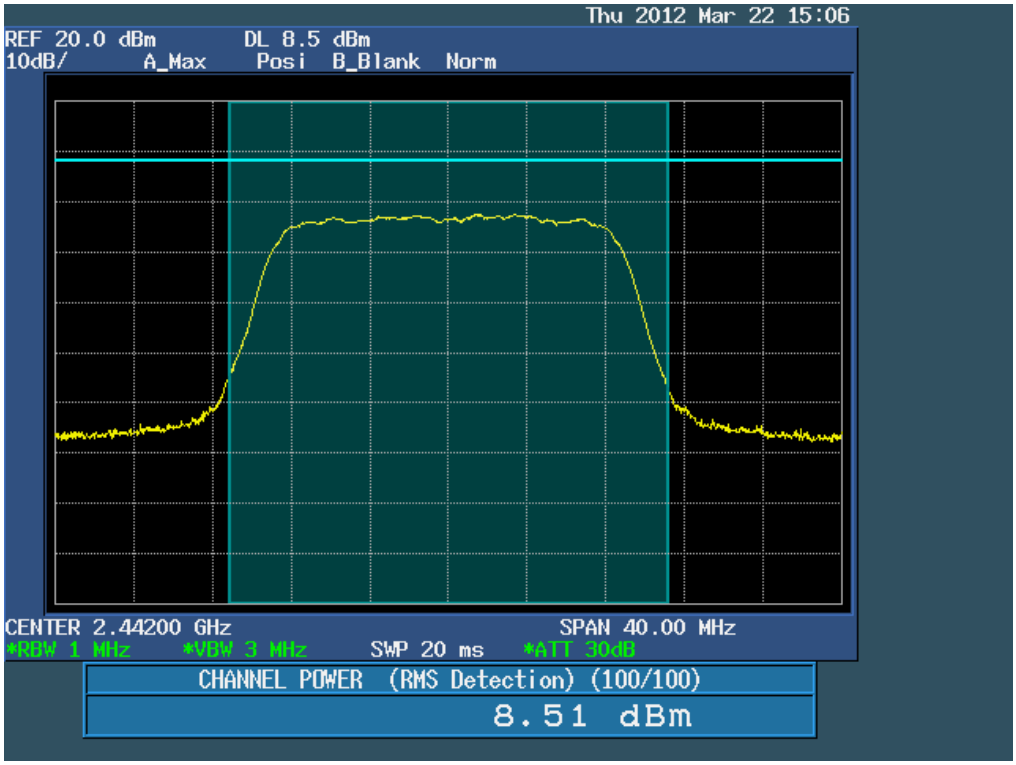
Ant 1 802.11n(20M)

The Lowest Channel 01: 2412MHz



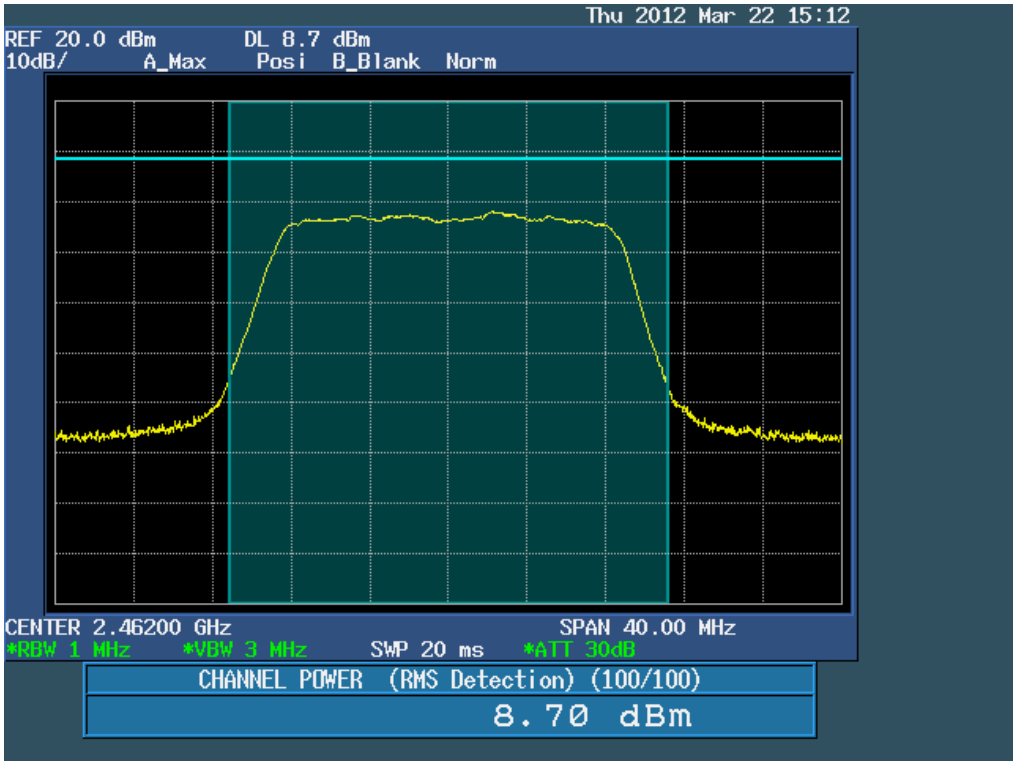
Ant 1 802.11n(20M)

The Middle Channel 07: 2442MHz



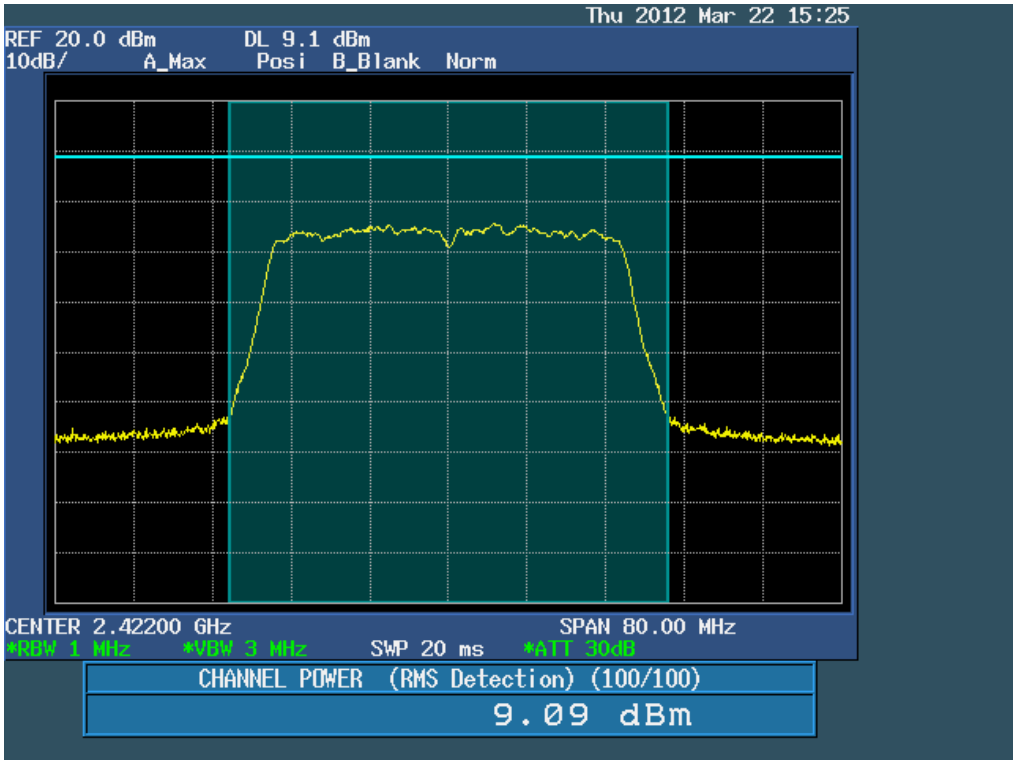
Ant 1 802.11n(20M)

The High Channel 11: 2462MHz



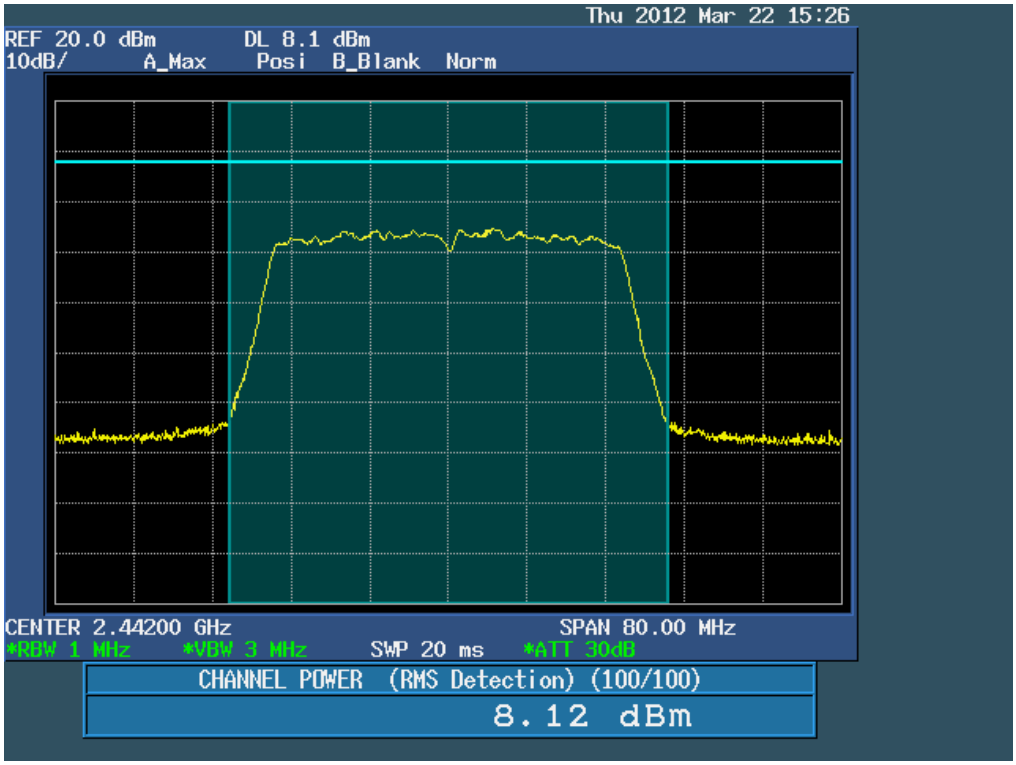
Ant 1 802.11n (40M)

The Lowest Channel 03: 2422MHz



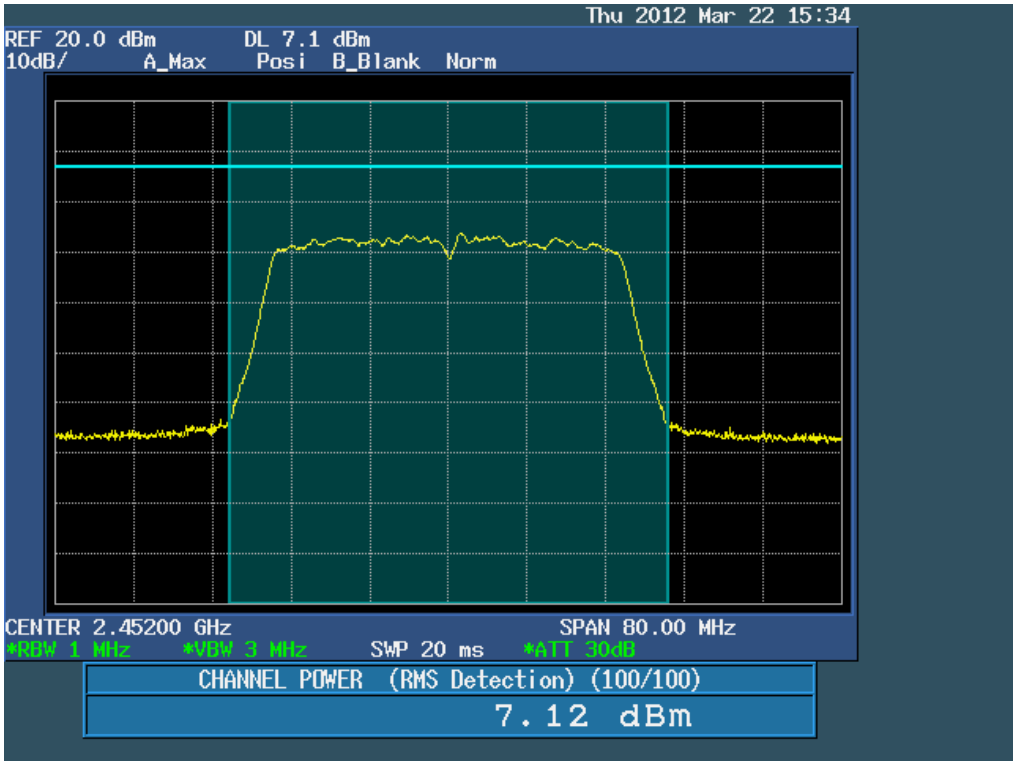
Ant 1 802.11n (40M)

The Middle Channel 07: 2442MHz



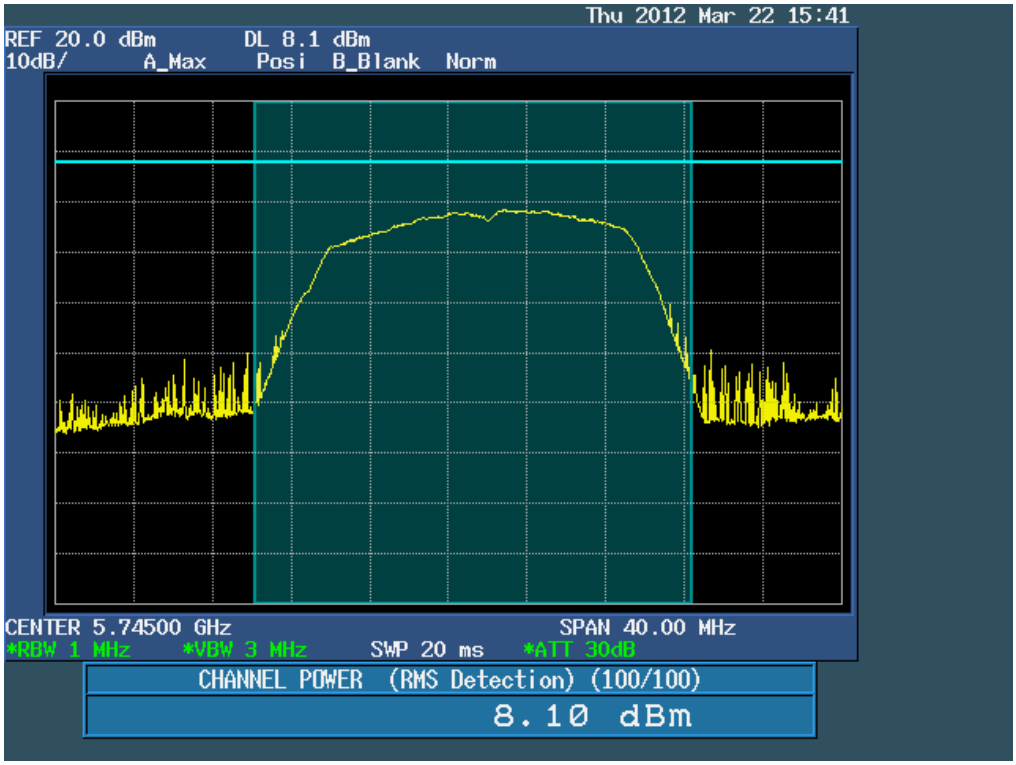
Ant 1 802.11n (40M)

The High Channel 09: 2452MHz



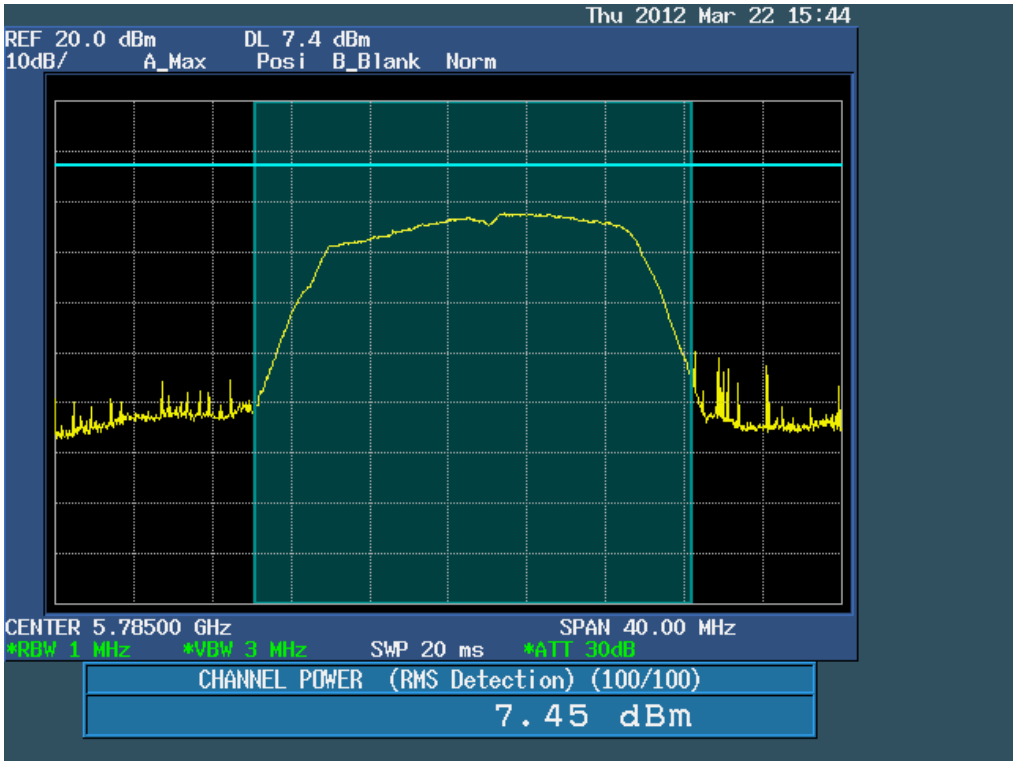
Ant 1 802.11a (5.725GHz-5.850GHz)

The Lowest Channel 149: 5745MHz



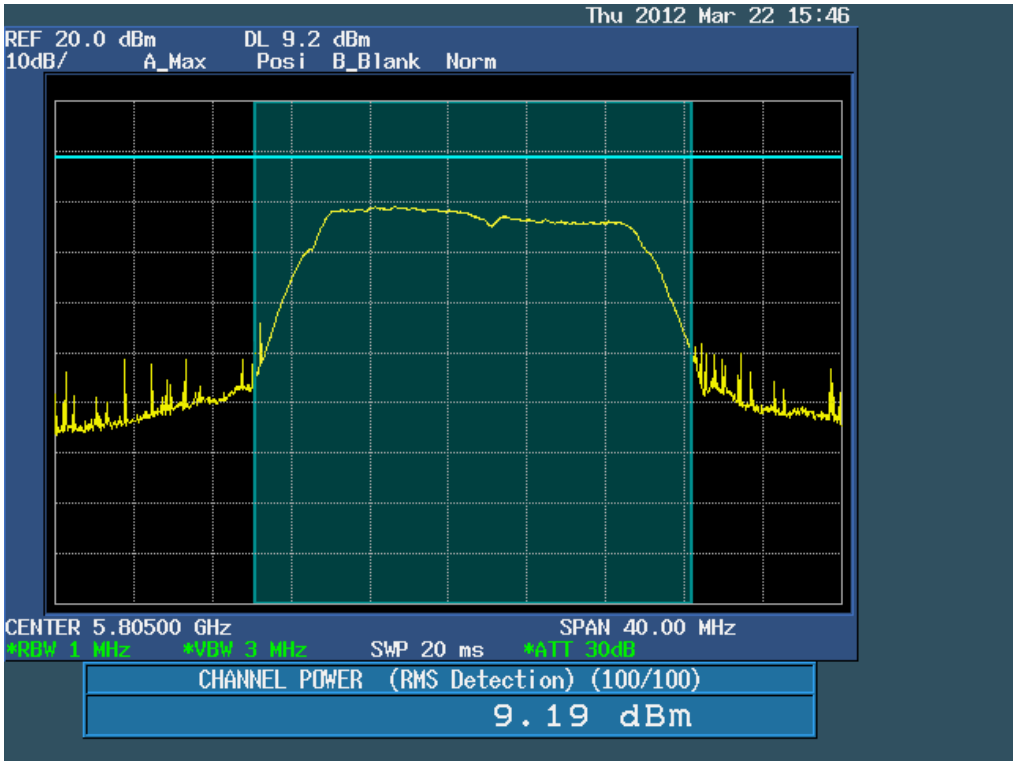
Ant 1 802.11a (5.725GHz-5.850GHz)

The Middle Channel 157: 5785MHz



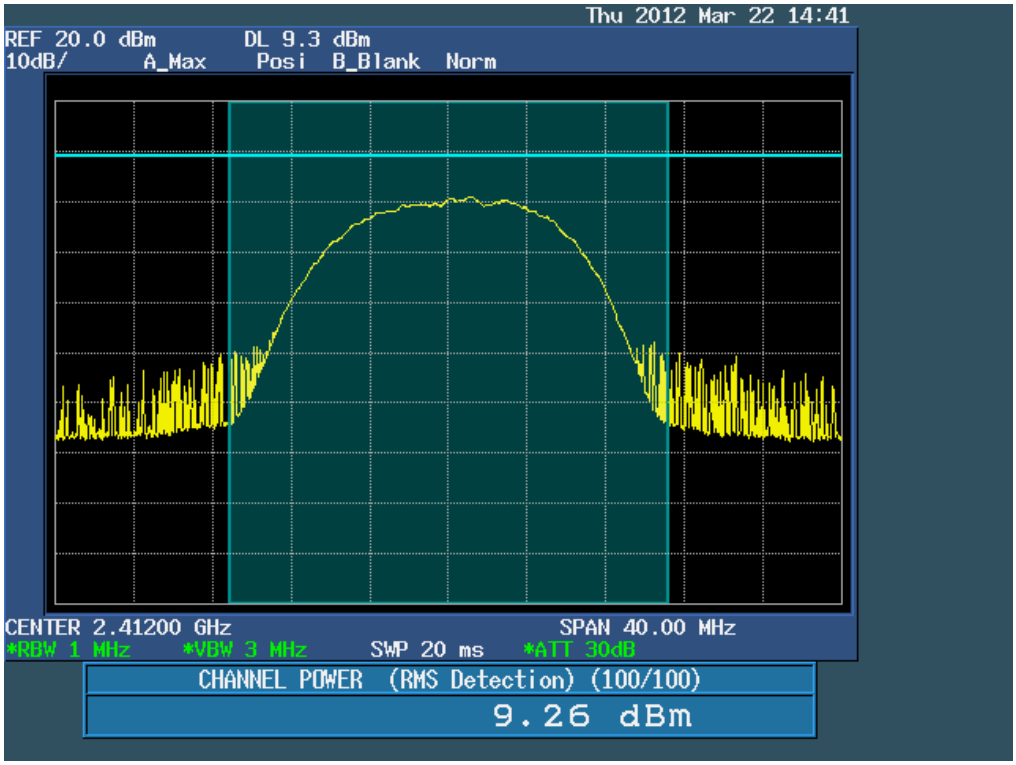
Ant 1 802.11a (5.725GHz-5.850GHz)

The High Channel 161: 5805MHz



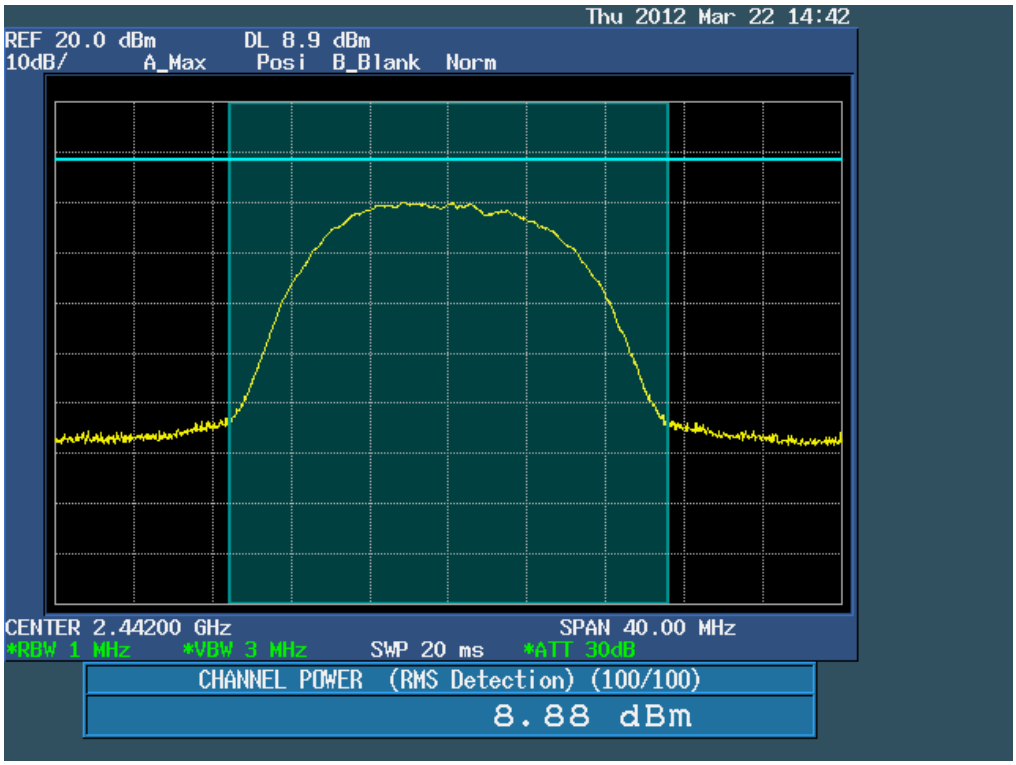
Ant 2 802.11b

The Lowest Channel 01: 2412MHz



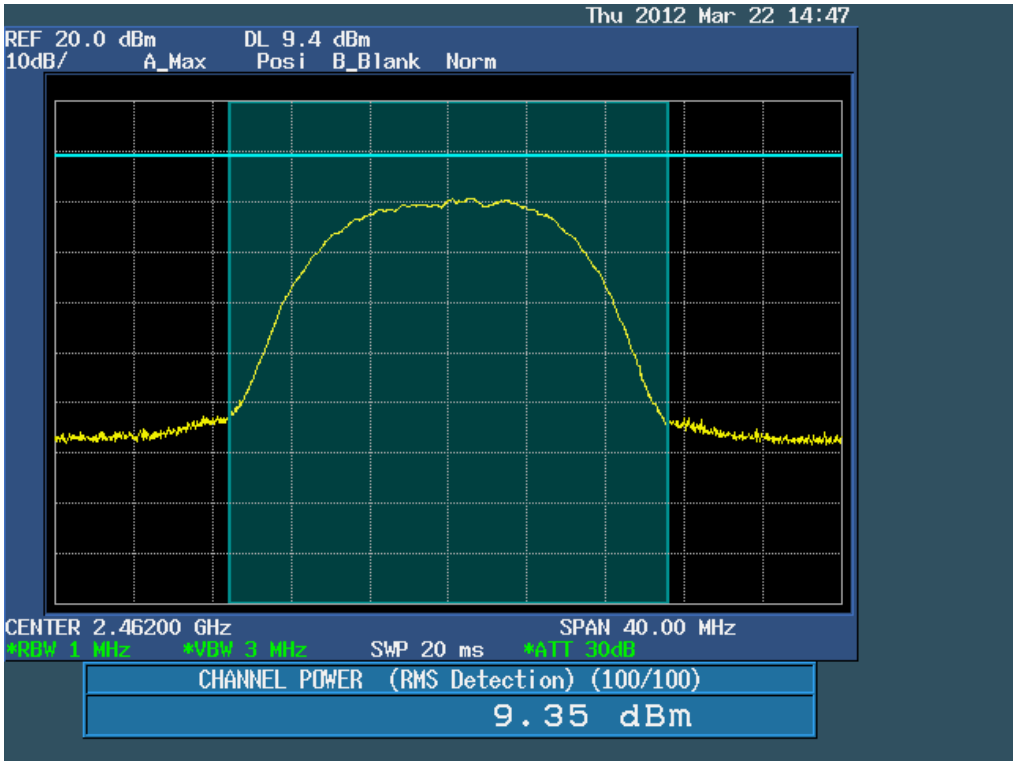
Ant 2 802.11b

The Middle Channel 07: 2442MHz



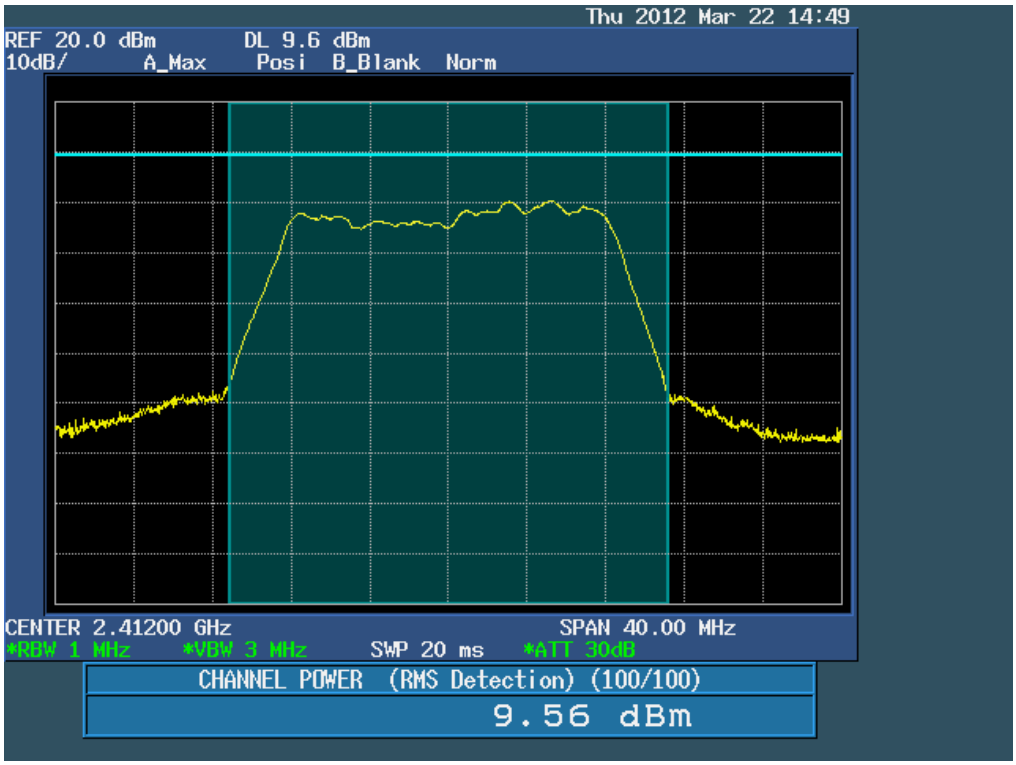
Ant 2 802.11b

The High Channel 11: 2462MHz



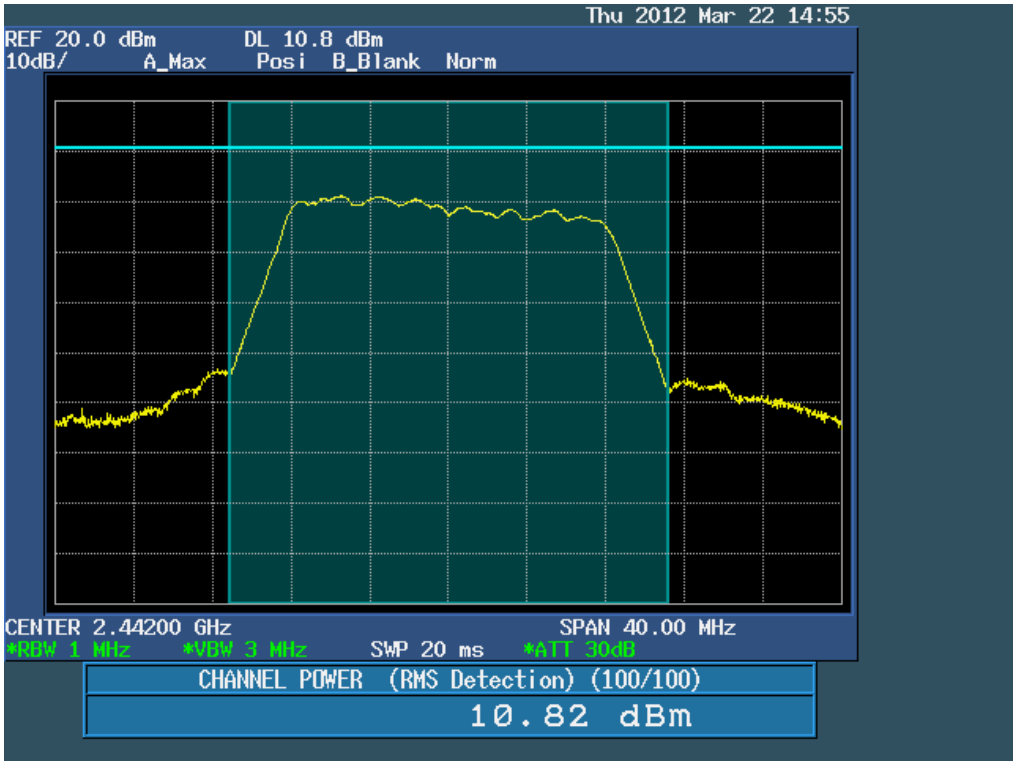
Ant 2 802.11g

The Lowest Channel 01: 2412MHz



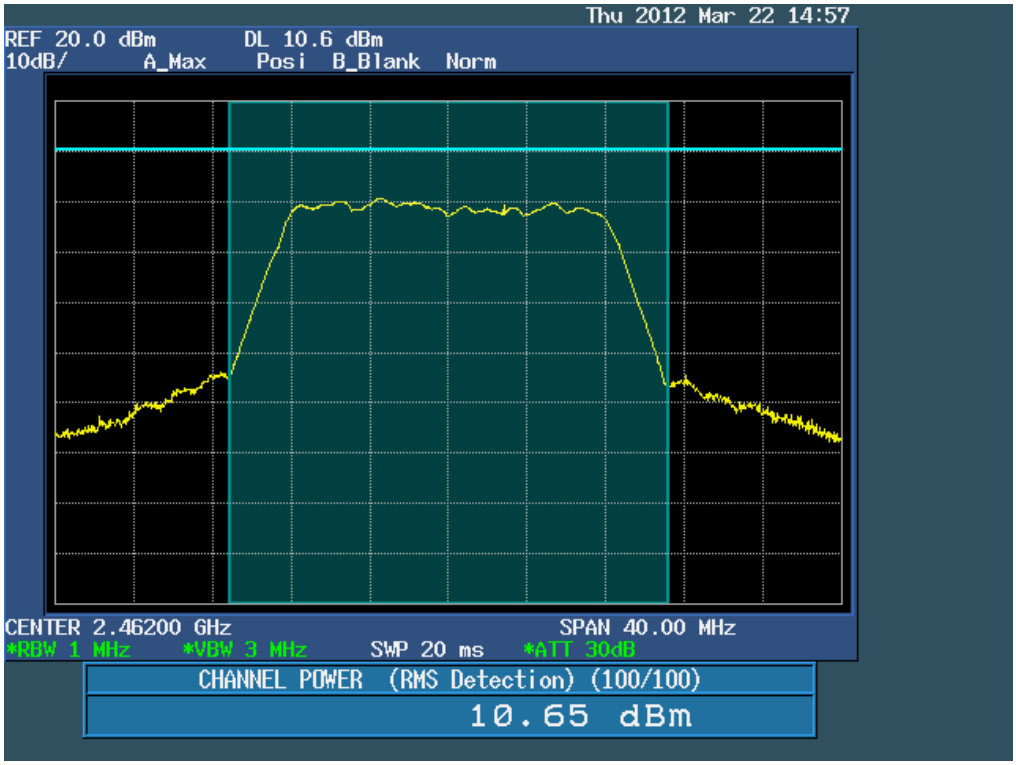
Ant 2 802.11 g

The Middle Channel 07: 2442MHz



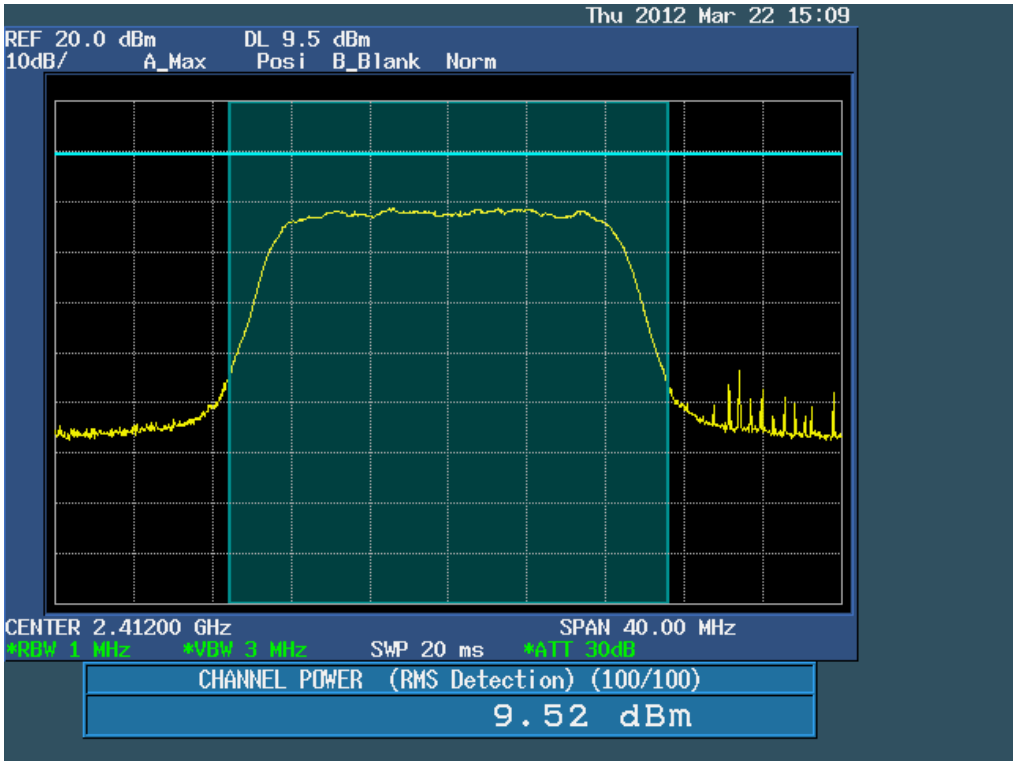
Ant 2 802.11 g

The High Channel 11: 2462MHz



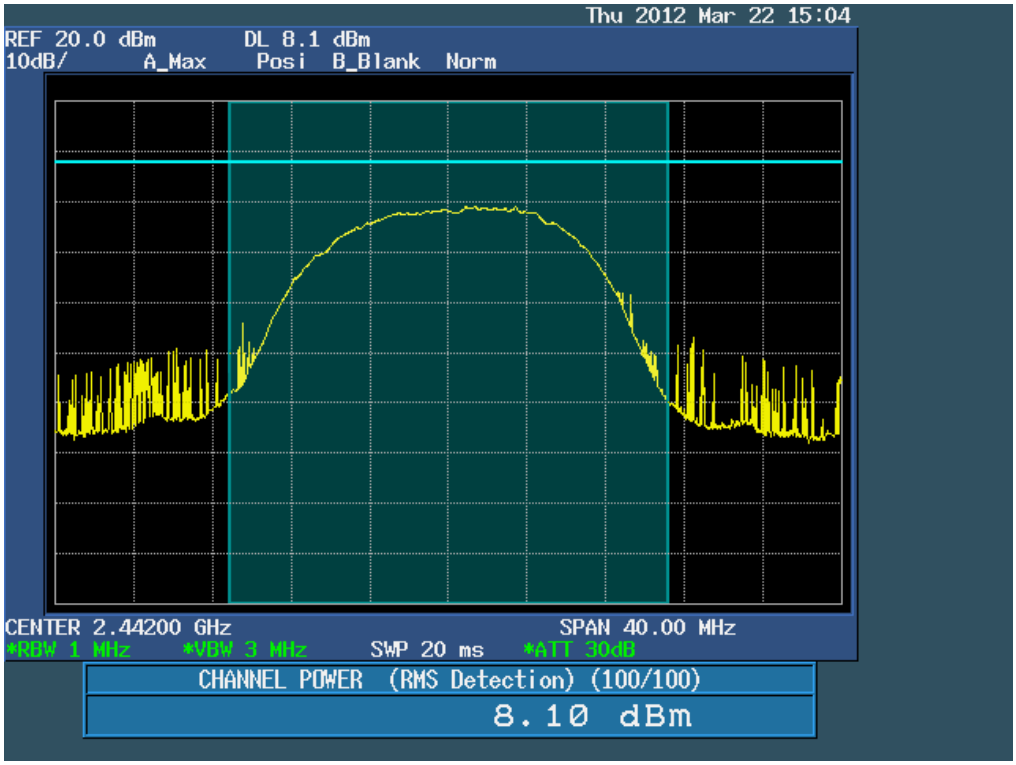
Ant 2 802.11 n (20M)

The Lowest Channel 01: 2412MHz



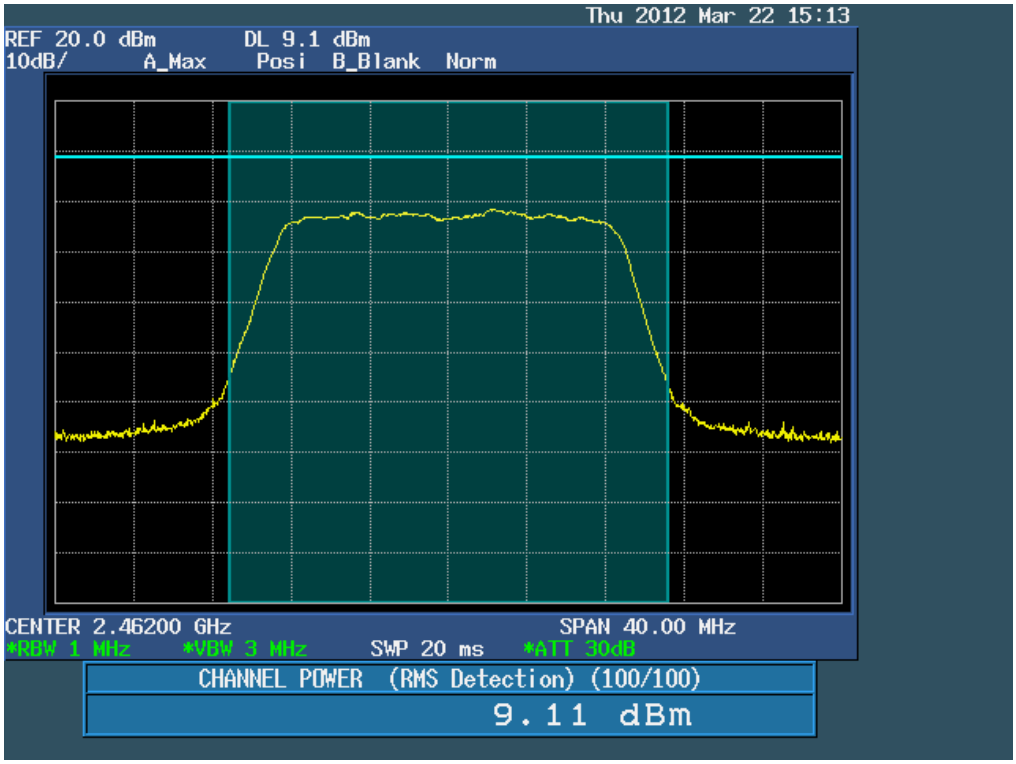
Ant 2 802.11 n (20M)

The Middle Channel 07: 2442MHz



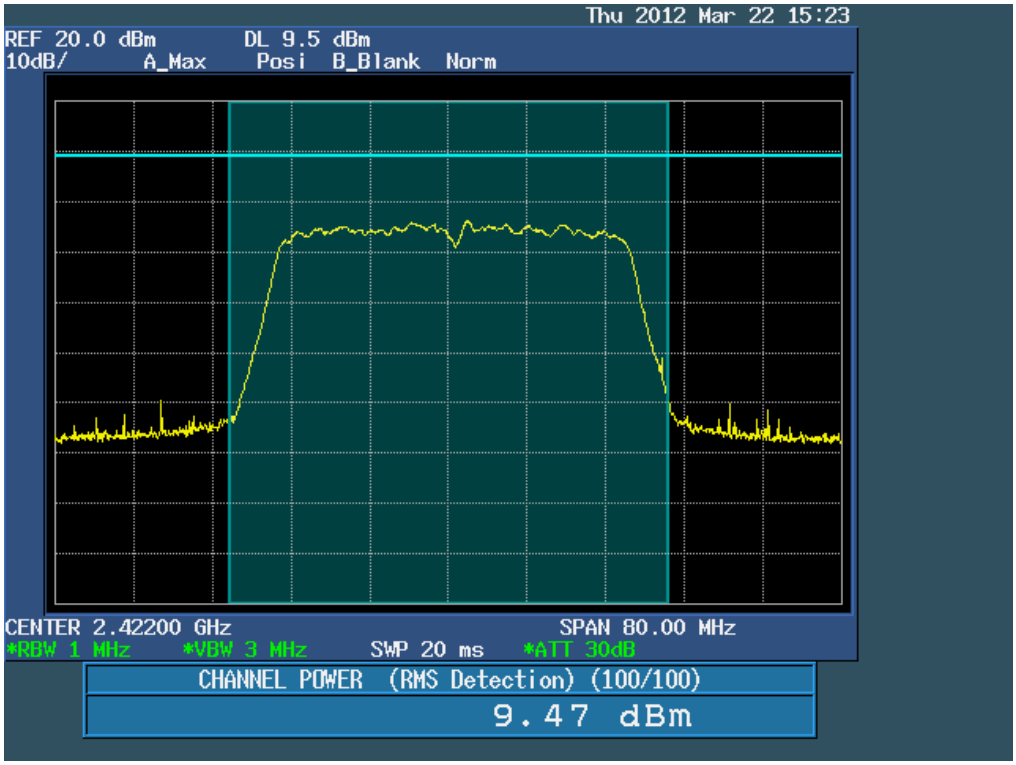
Ant 2 802.11 n (20M)

The High Channel 11: 2462MHz



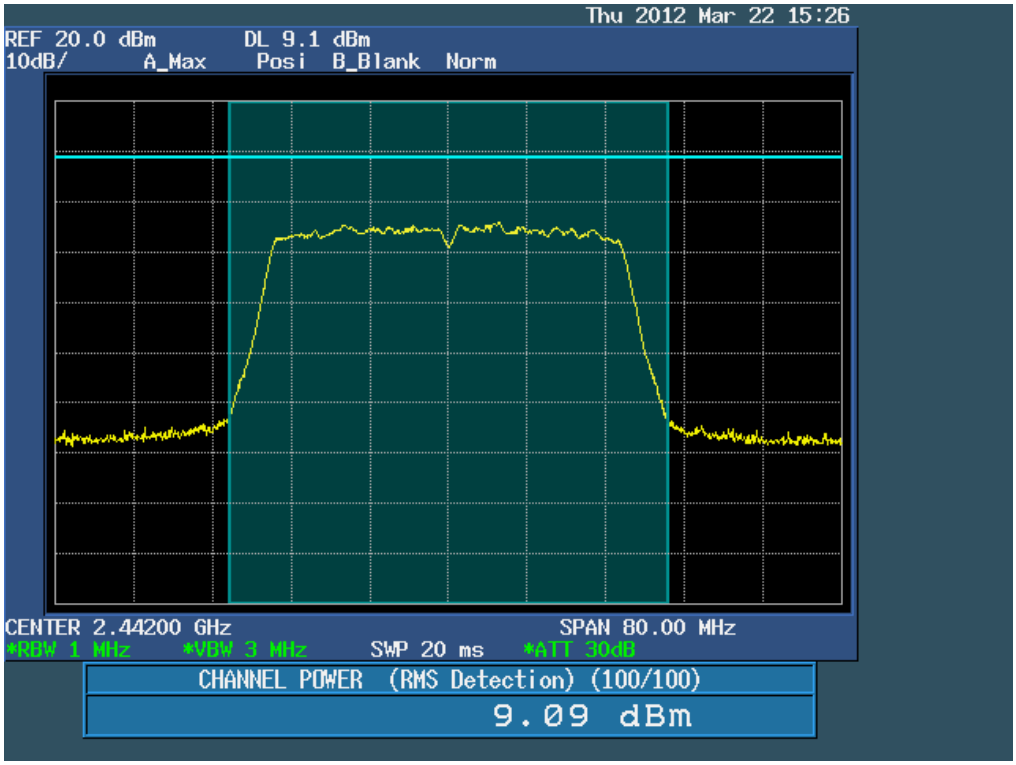
Ant 2 802.11n (40M)

The Lowest Channel 03: 2422MHz



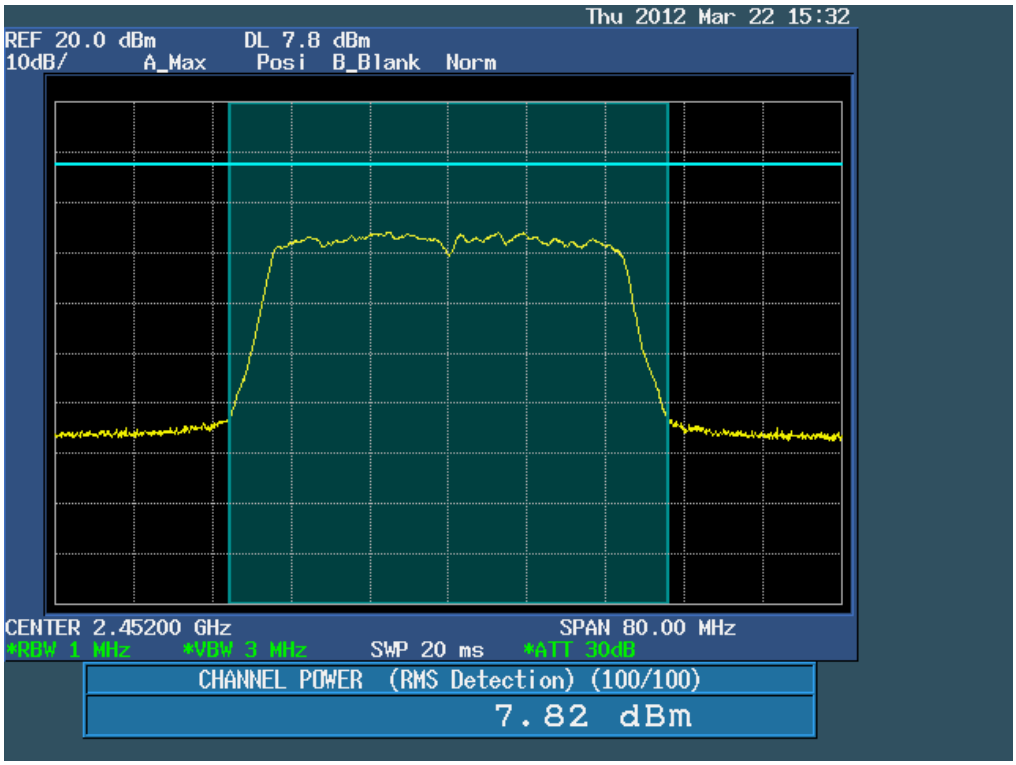
Ant 2 802.11n (40M)

The Middle Channel 07: 2442MHz



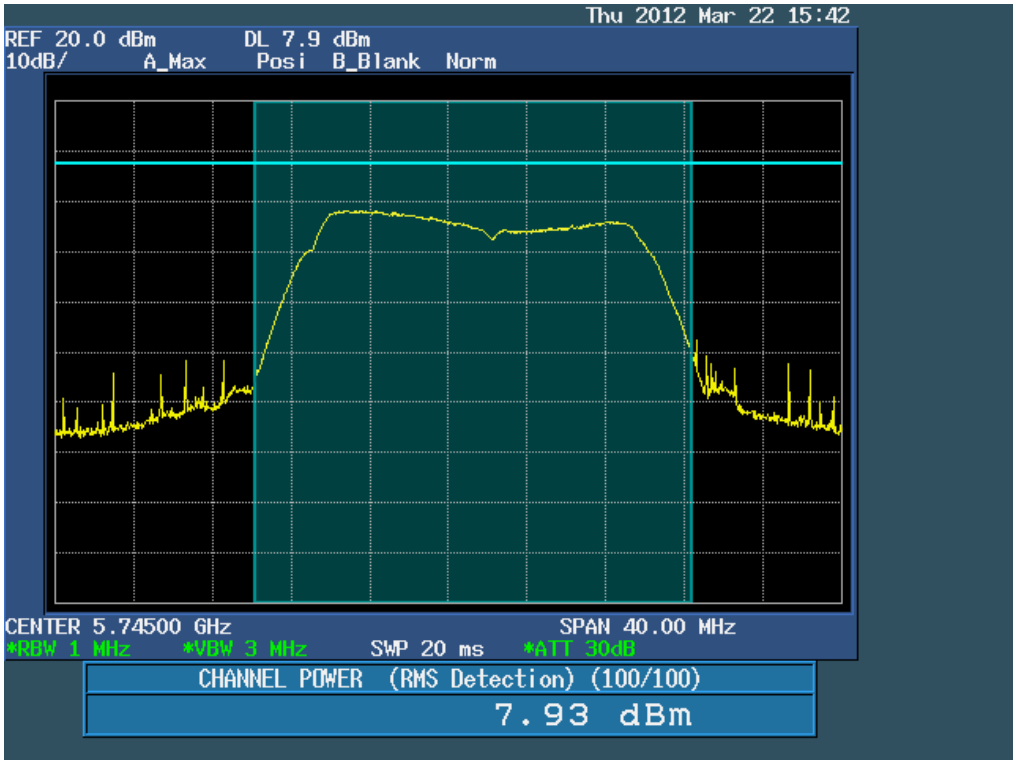
Ant 2 802.11n (40M)

The High Channel 09: 2452MHz



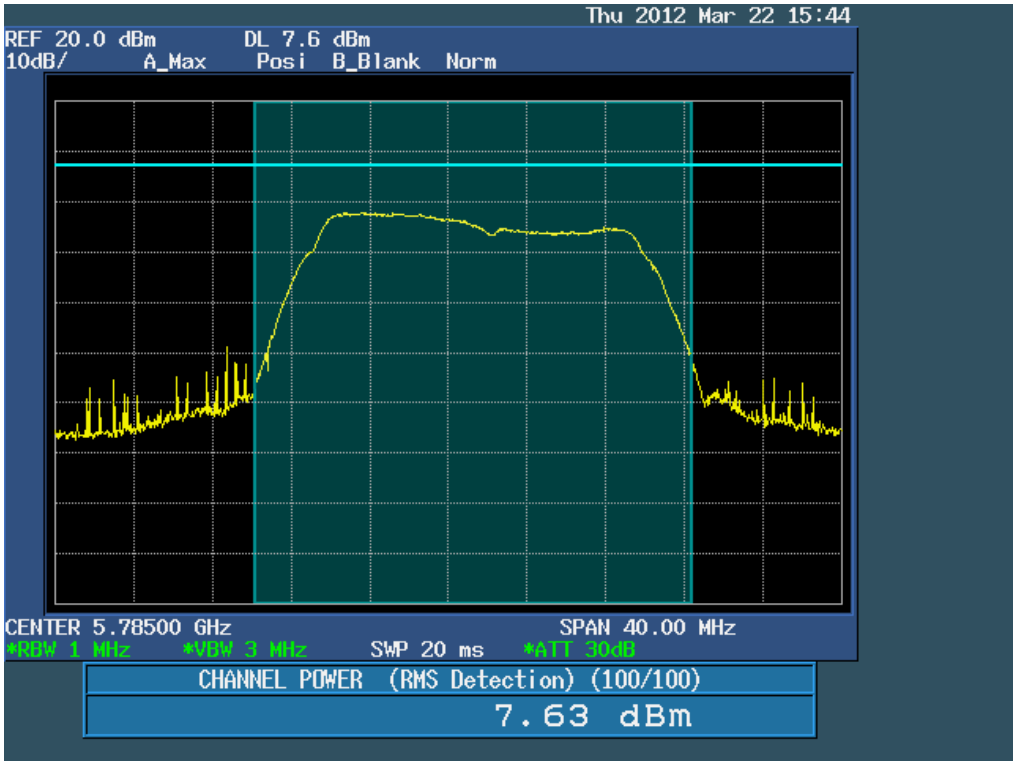
Ant 2 802.11a (5.725GHz-5.850GHz)

The Lowest Channel 149: 5745MHz



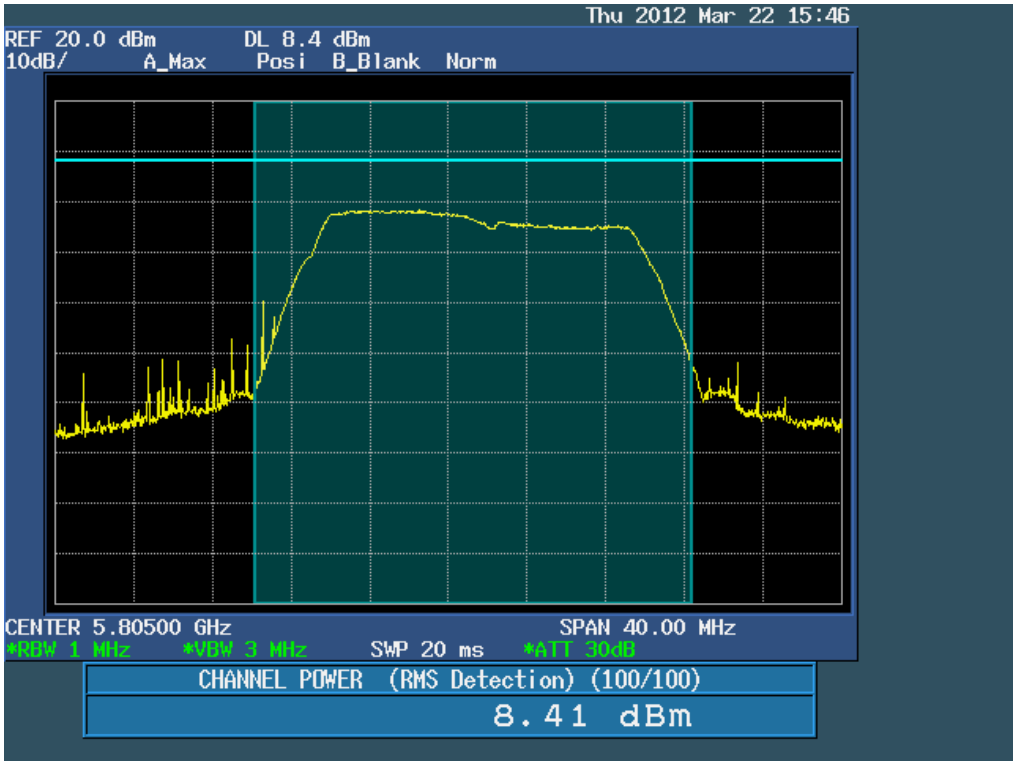
Ant 2 802.11a (5.725GHz-5.850GHz)

The Middle Channel 157: 5785MHz



Ant 2 802.11a (5.725GHz-5.850GHz)

The High Channel 161: 5805MHz



6.7 Band edge

6.7.1 Applied procedures / Limit

15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

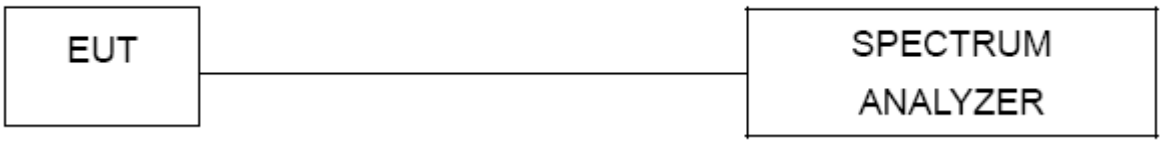
6.7.2 Test procedure

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≧RBW, Sweep time=Auto, Detector Function=Peak.

6.7.3 Deviation from standard

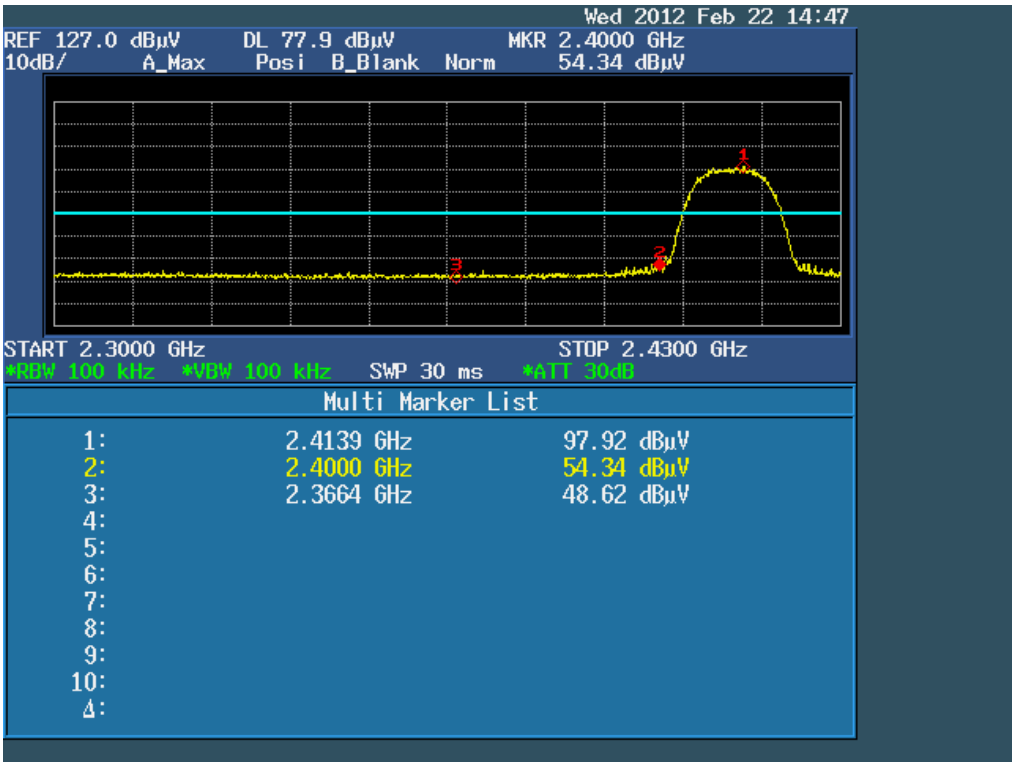
No deviation.

6.7.4 Test setup

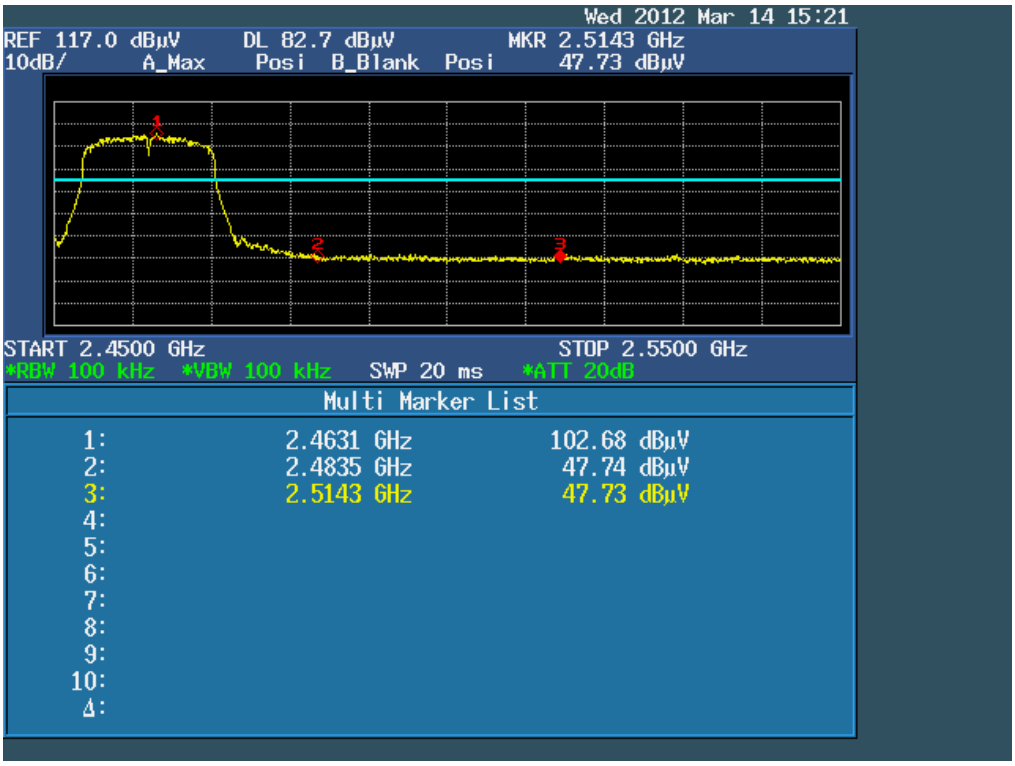


6.7.5 Test results

Ant 1 802.11b CH01 (Lower) Data rate 1Mbps



Ant 1 802.11b CH 11 (Upper) Data rate 1Mbps



Ant 1 802.11g

CH01 (Lower) Data rate 6Mbps

Ant 1 802.11g

CH 11 (Upper) Data rate 6Mbps

Ant 1 802.11n(20M)

CH01 (Lower) Data rate 7.2Mbps

Ant 1 802.11n(20M)

CH 11 (Upper) Data rate 7.2Mbps

Ant 1 802.11n(40M)

CH03 (Lower) Data rate 7.2Mbps

Ant 1 802.11n(40M)

CH 09 (Upper) Data rate 7.2Mbps

Ant 1 802.11a (5.725GHz-5.850GHz)
CH 149 (Lower) Data rate 6Mbps

Ant 1 802.11a (5.725GHz-5.850GHz)
CH 161(Upper) Data rate 6Mbps

Ant 2 802.11b

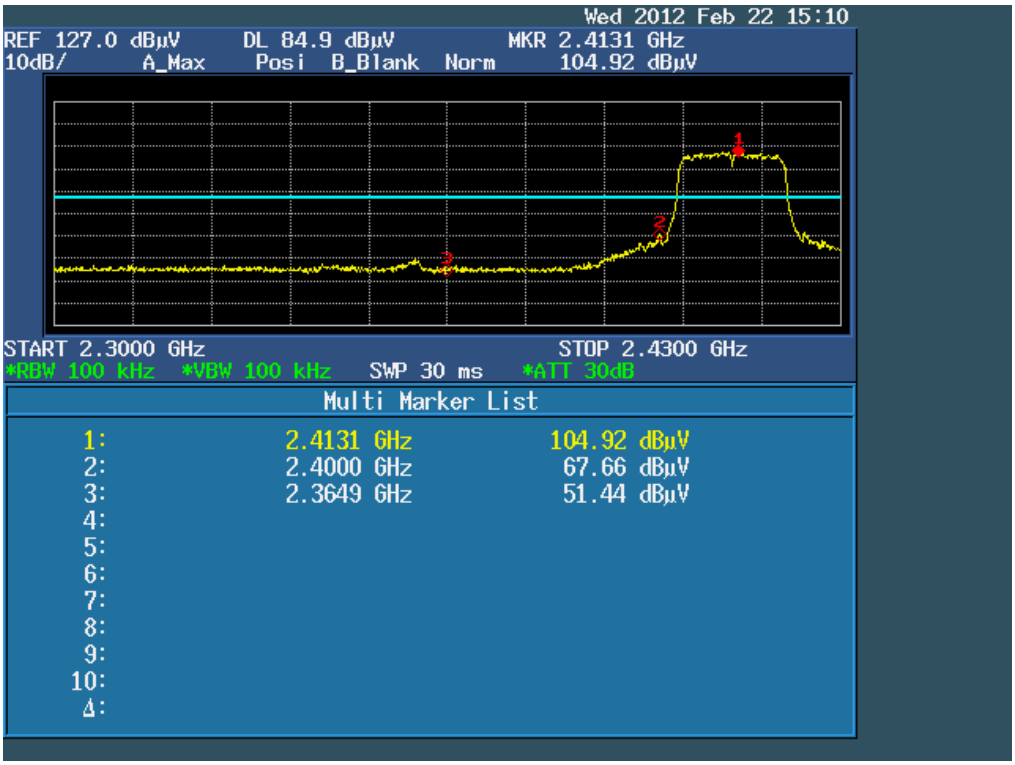
CH01 (Lower) Data rate 1Mbps

Ant 2 802.11b

CH 11 (Upper) Data rate 1Mbps

Ant 2 802.11g

CH01 (Lower) Data rate 6Mbps

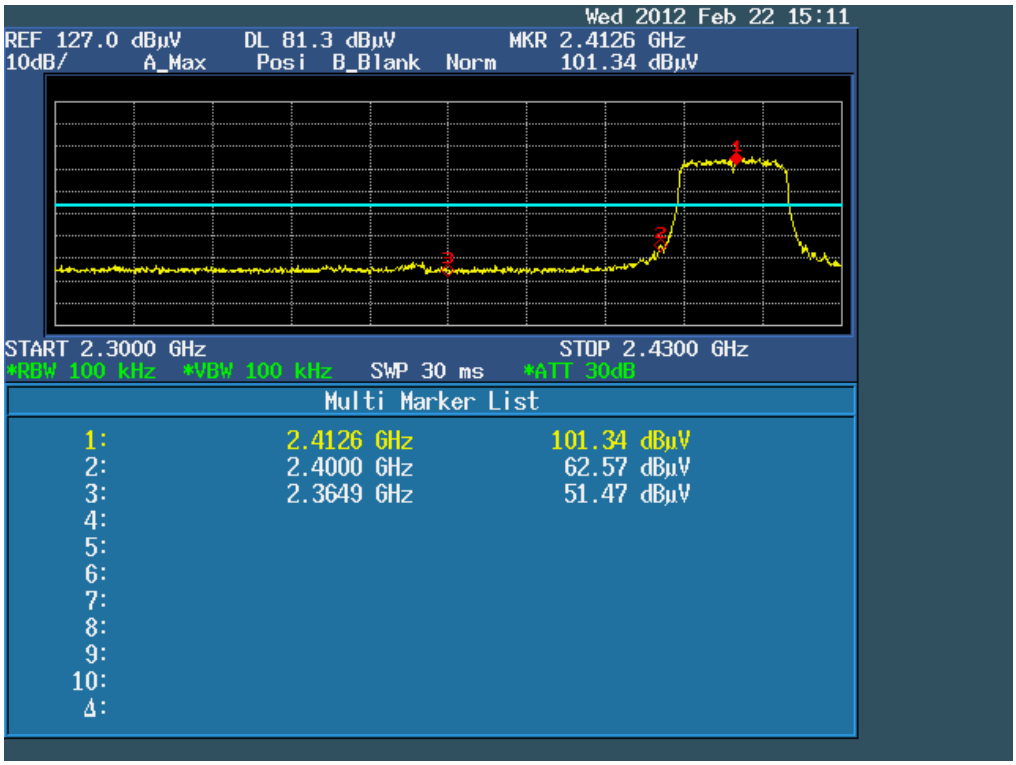


Ant 2 802.11g

CH 11 (Upper) Data rate 6Mbps

Ant 2 802.11n(20M)

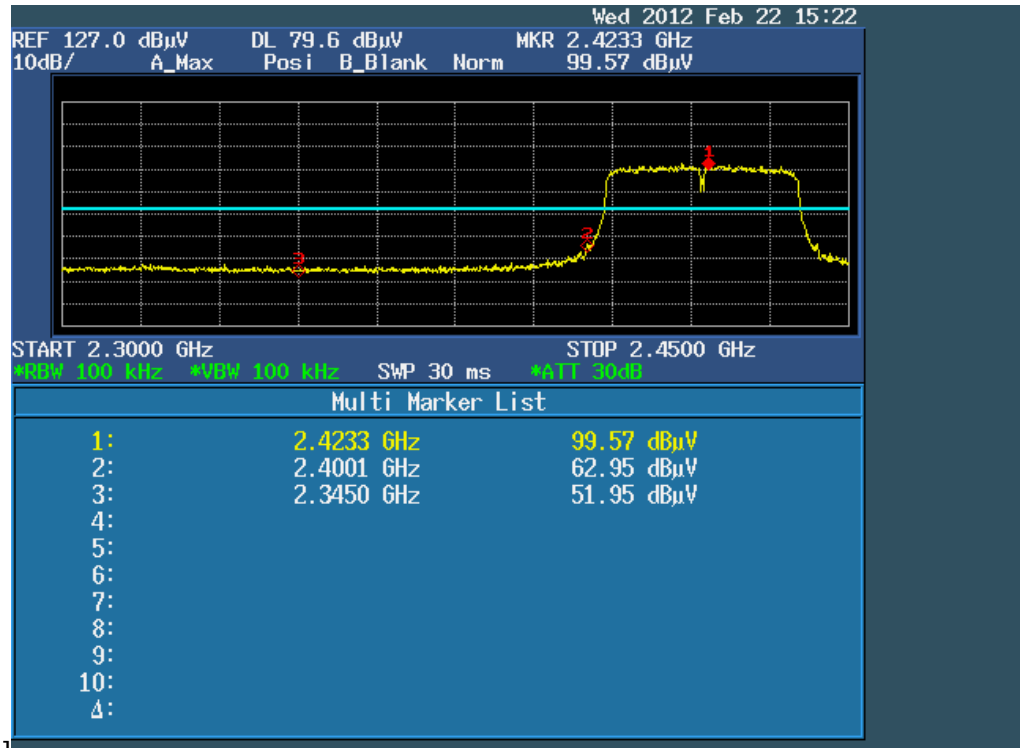
CH01 (Lower) Data rate 7.2Mbps



Ant 2 802.11n(20M)

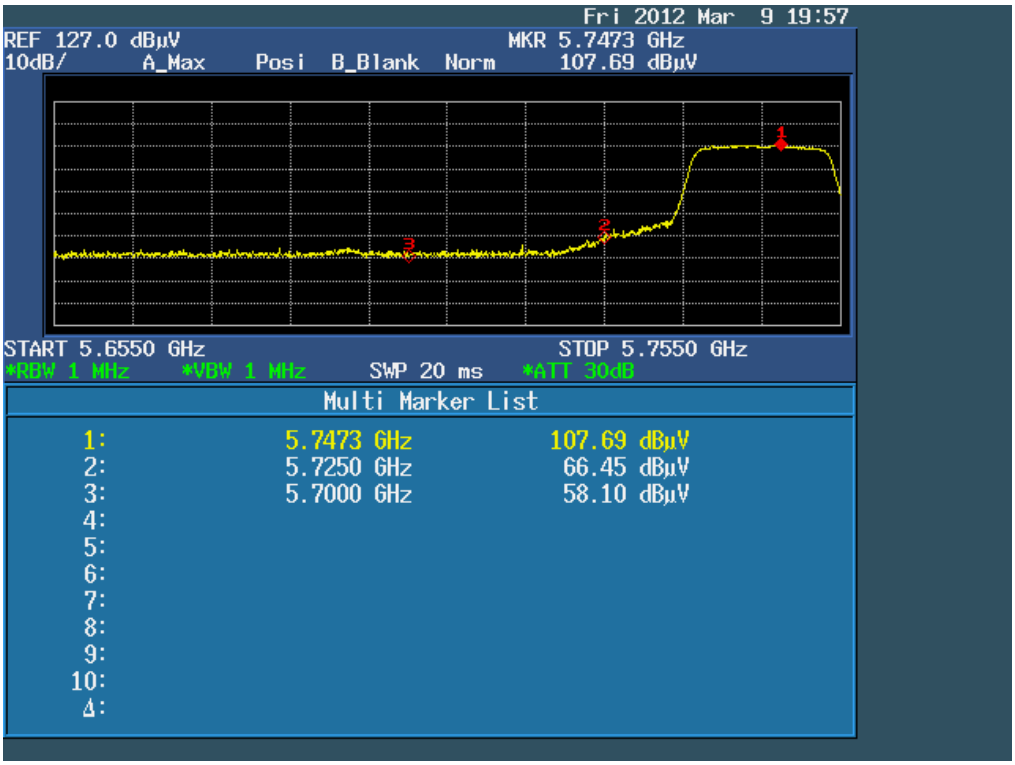
CH 11 (Upper) Data rate 7.2Mbps

Ant 2 802.11n(40M)
CH03 (Lower) Data rate 7.2Mbps

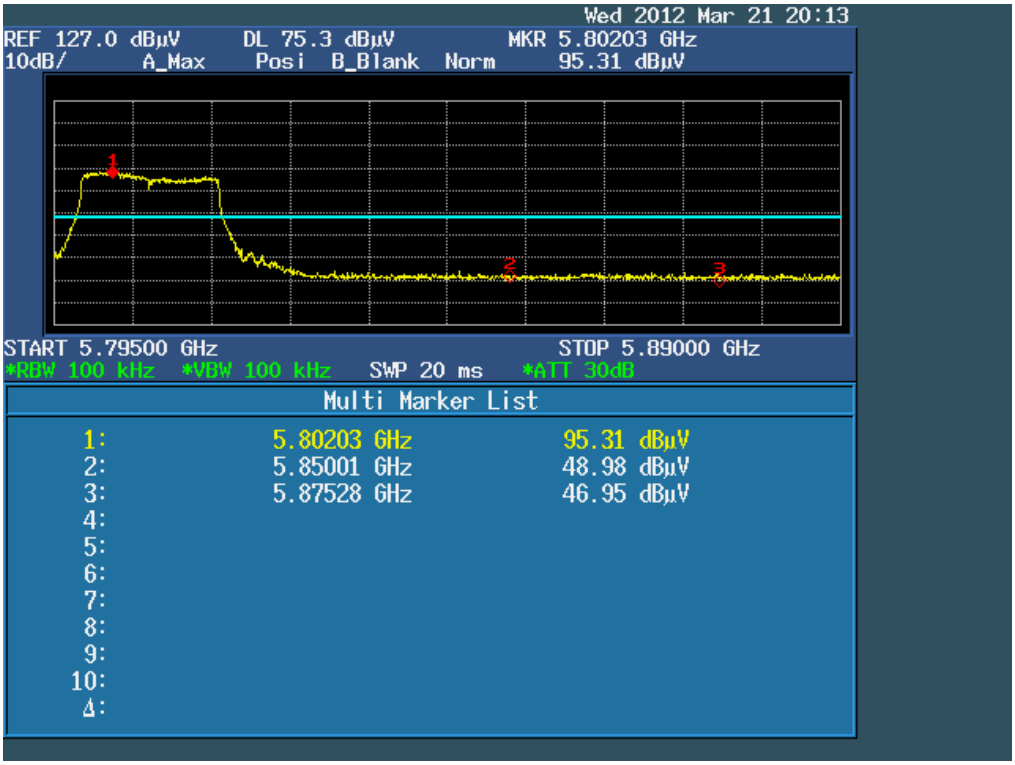


Ant 2 802.11n(40M)
CH09 (Upper) Data rate 7.2Mbps

Ant 2 802.11a (5.725GHz-5.850GHz)
CH 149 (Lower) Data rate 6Mbps

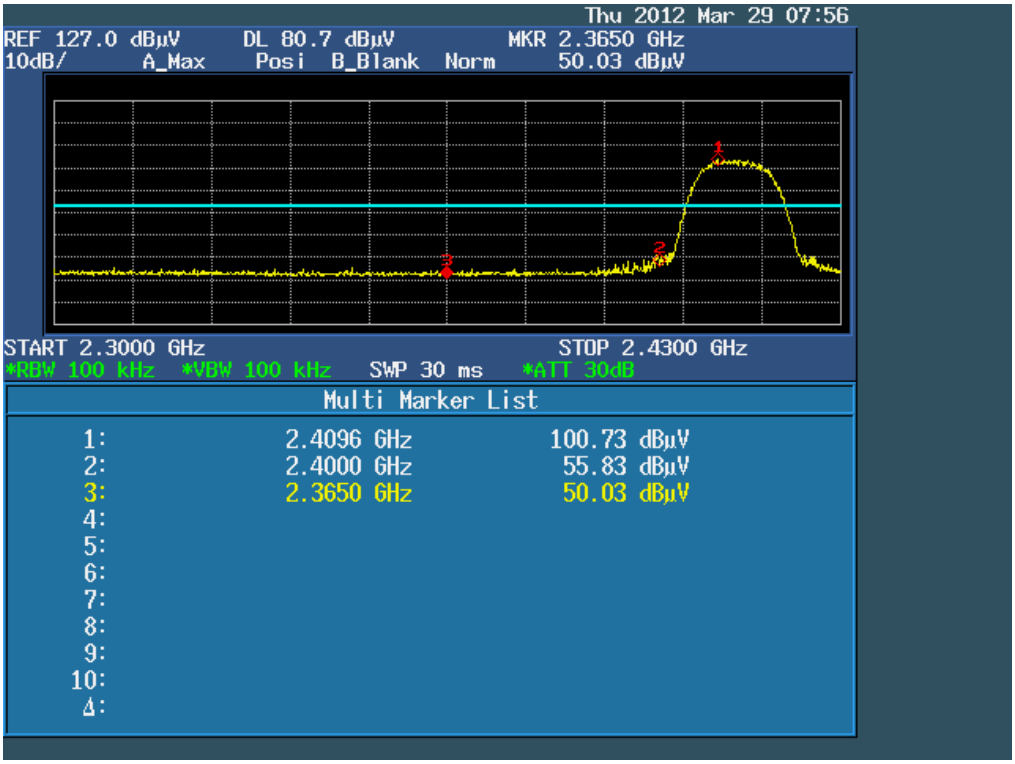


Ant 2 802.11a (5.725GHz-5.850GHz)
CH 161 (Upper) Data rate 6Mbps



Ant 1+ Ant 2 802.11b

CH01 (Lower) Data rate 1Mbps



Ant 1+ Ant 2 802.11b

CH 11 (Upper) Data rate 1Mbps

Ant 1+ Ant 2 802.11g

CH01 (Lower) Data rate 6Mbps

Ant 1+ Ant 2 802.11g

CH 11 (Upper) Data rate 6Mbps

Ant 1+ Ant 2 802.11n(20M)

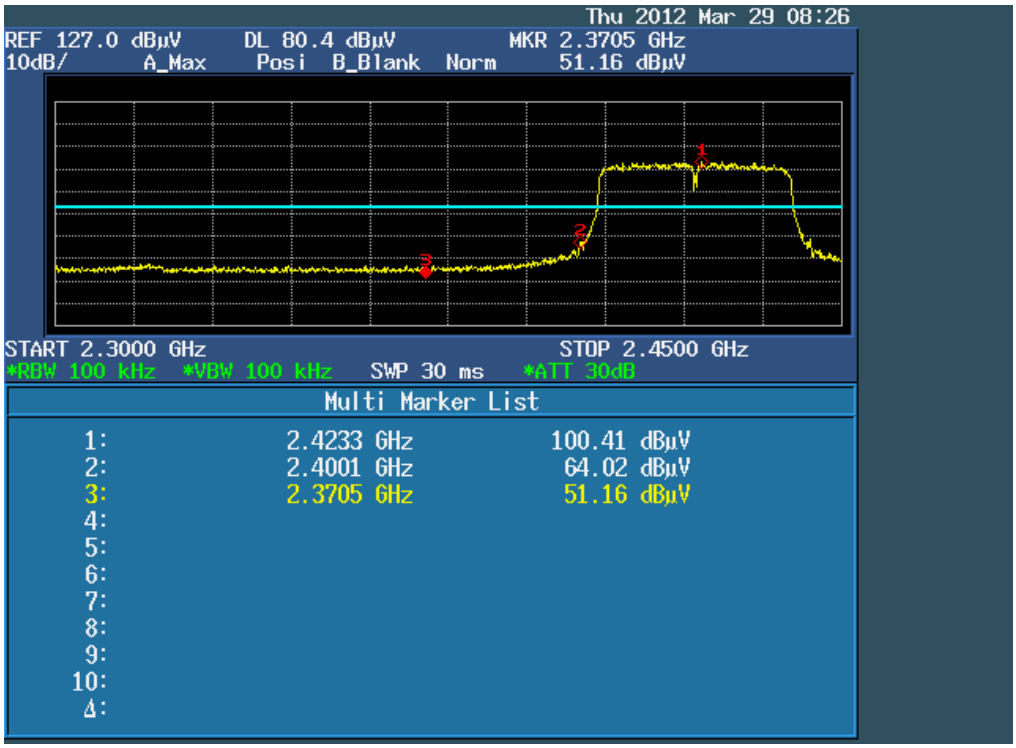
CH01 (Lower) Data rate 7.2Mbps

Ant 1+ Ant 2 802.11n(20M)

CH 11 (Upper) Data rate 7.2Mbps

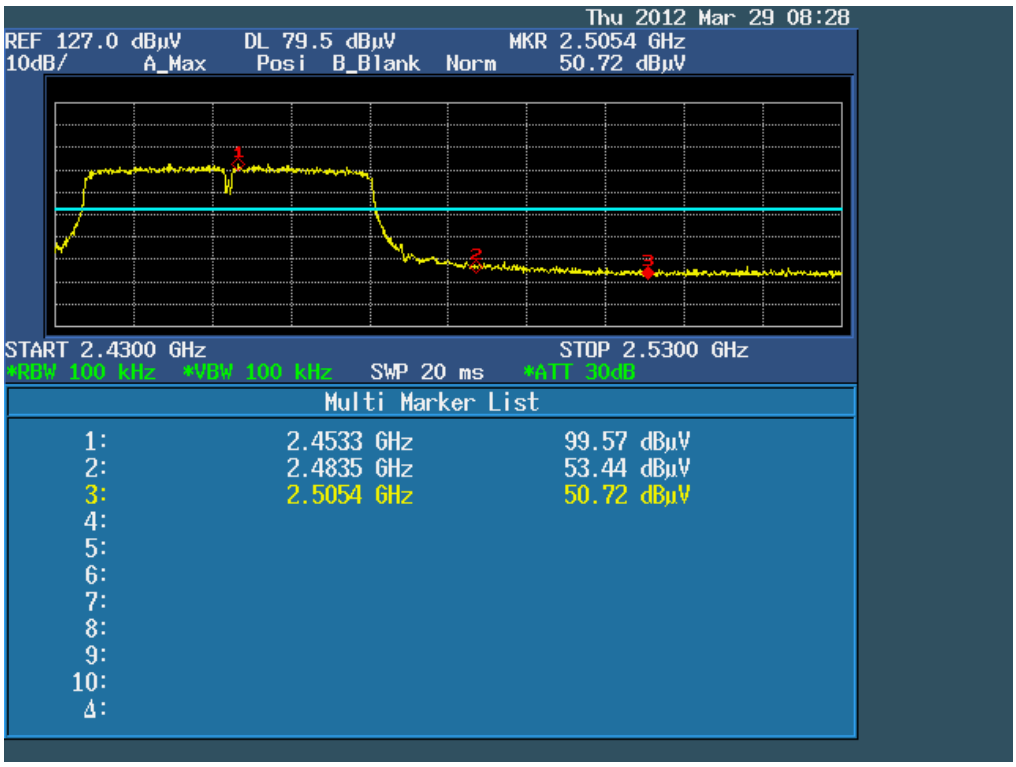
Ant 1+ Ant 2 802.11n(40M)

CH03 (Lower) Data rate 7.2Mbps

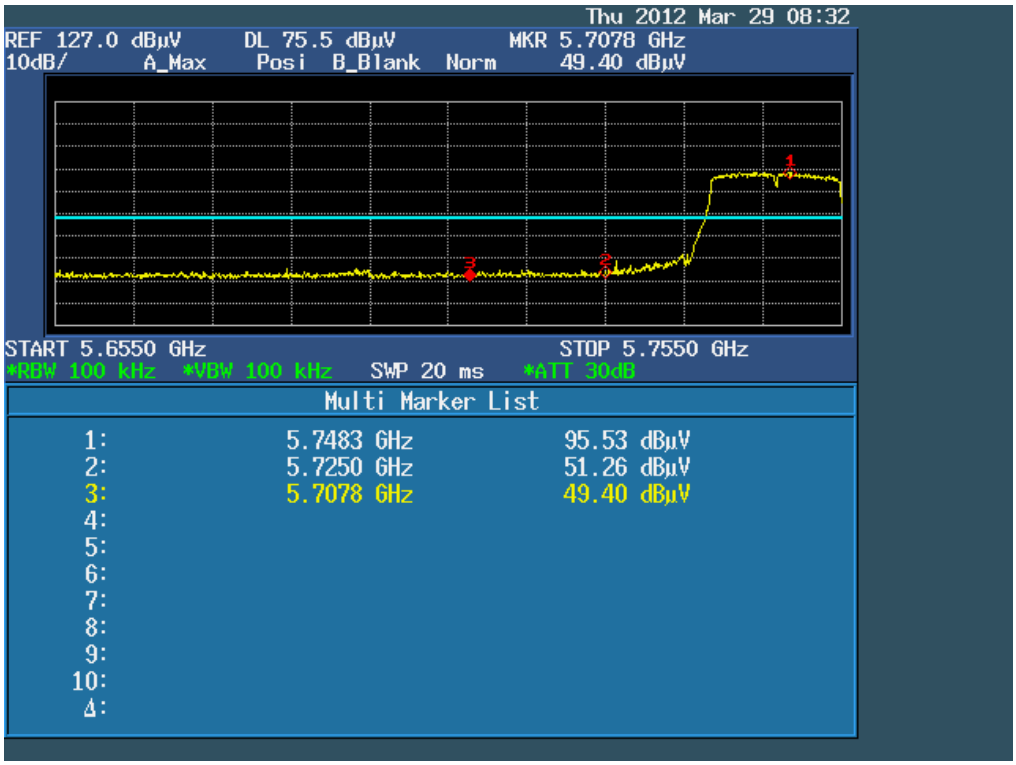


Ant 1+ Ant 2 802.11n(40M)

CH 09 (Upper) Data rate 7.2Mbps



Ant 1+ Ant 2 802.11a (5.725GHz-5.850GHz)
CH 149 (Lower) Data rate 6Mbps



Ant 1+ Ant 2 802.11a (5.725GHz-5.850GHz)
CH 161(Upper) Data rate 6Mbps

6.8 Conducted Spurious Emissions

6.8.1 Applied procedures / Limit

15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

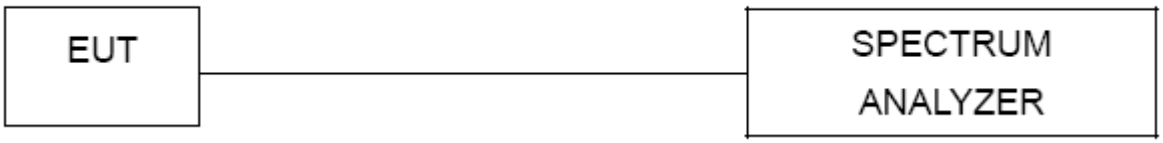
6.8.2 Test procedure

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≧RBW, Sweep time=Auto, Detector Function=Peak.

6.8.3 Deviation from standard

No deviation.

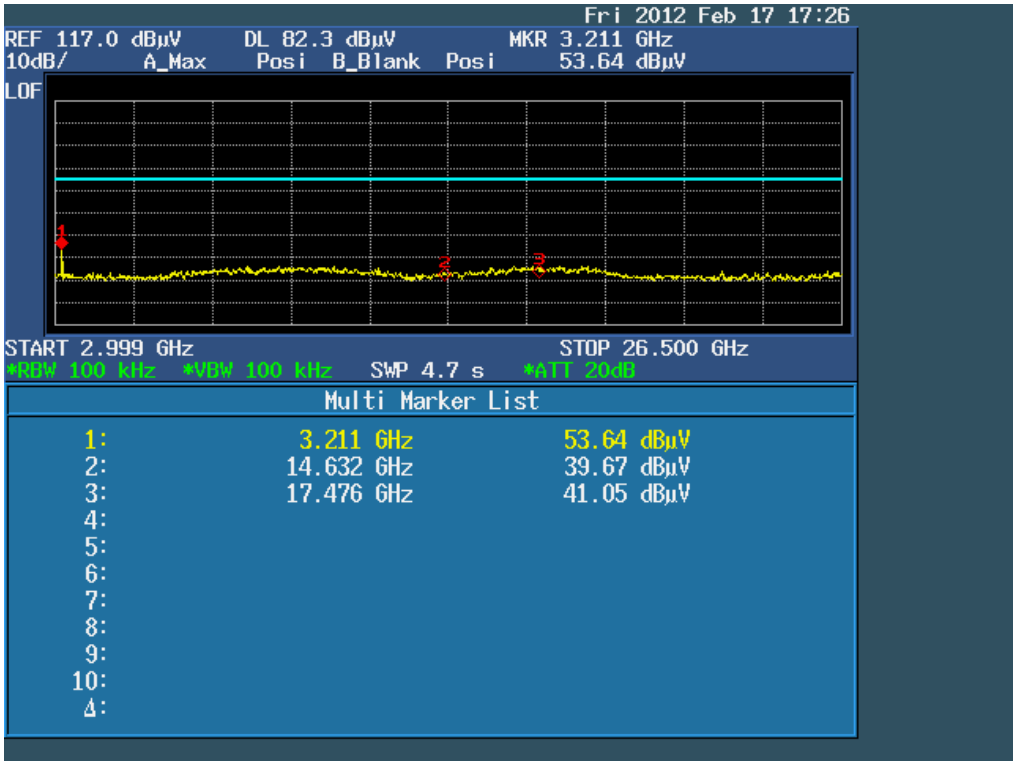
6.8.4 Test setup



6.8.5 Test results

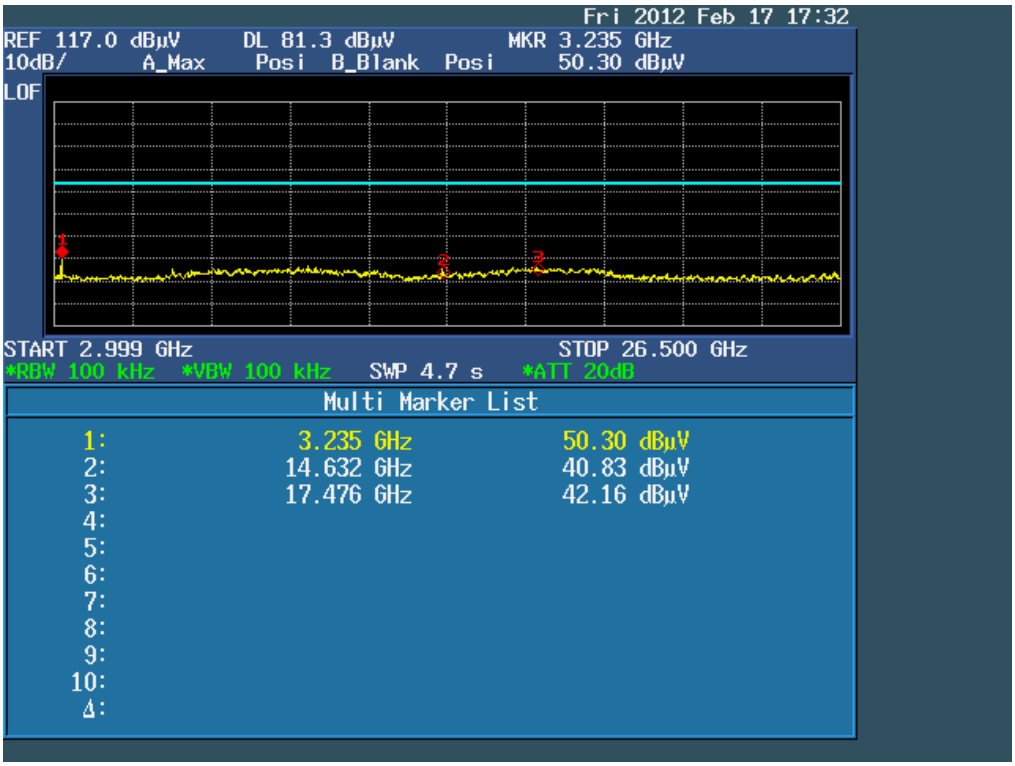
Ant 1 802.11b

CH 01 Data rate 1Mbps



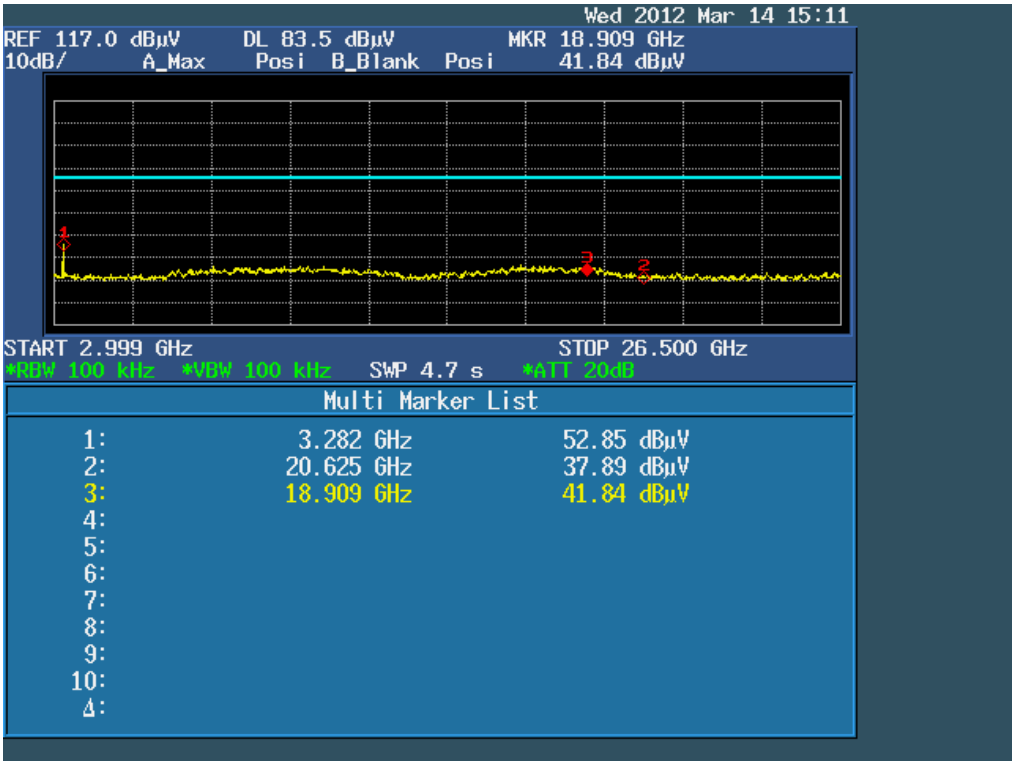
Ant 1 802.11b

CH 07 Data rate 1Mbps



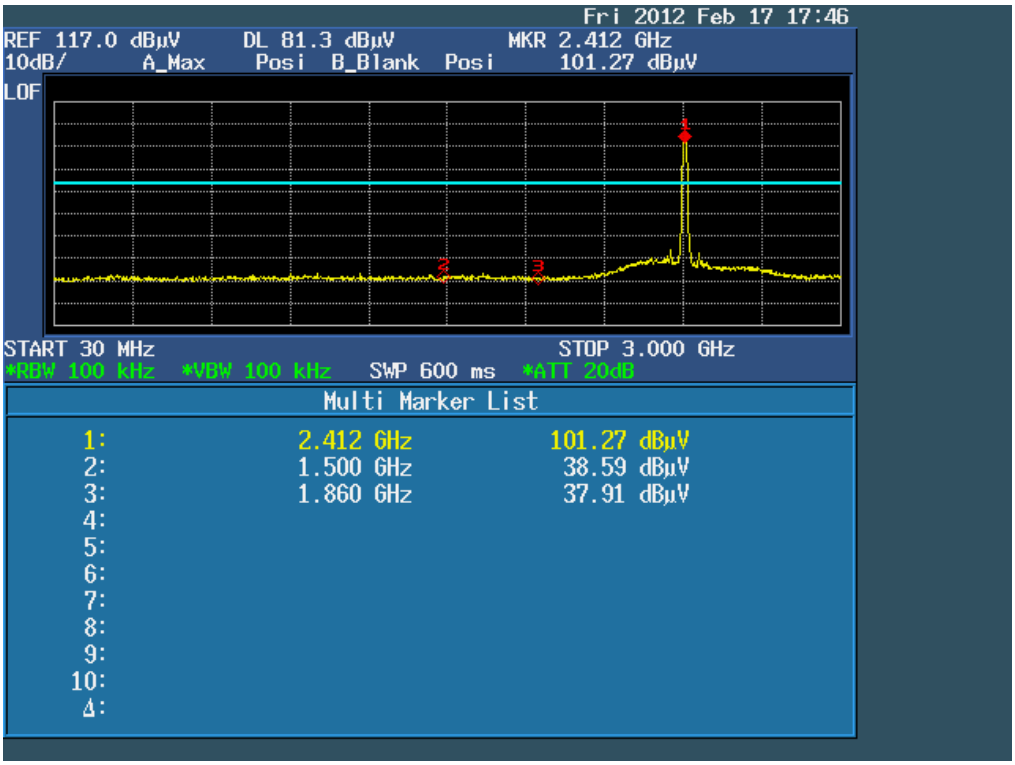
Ant 1 802.11b

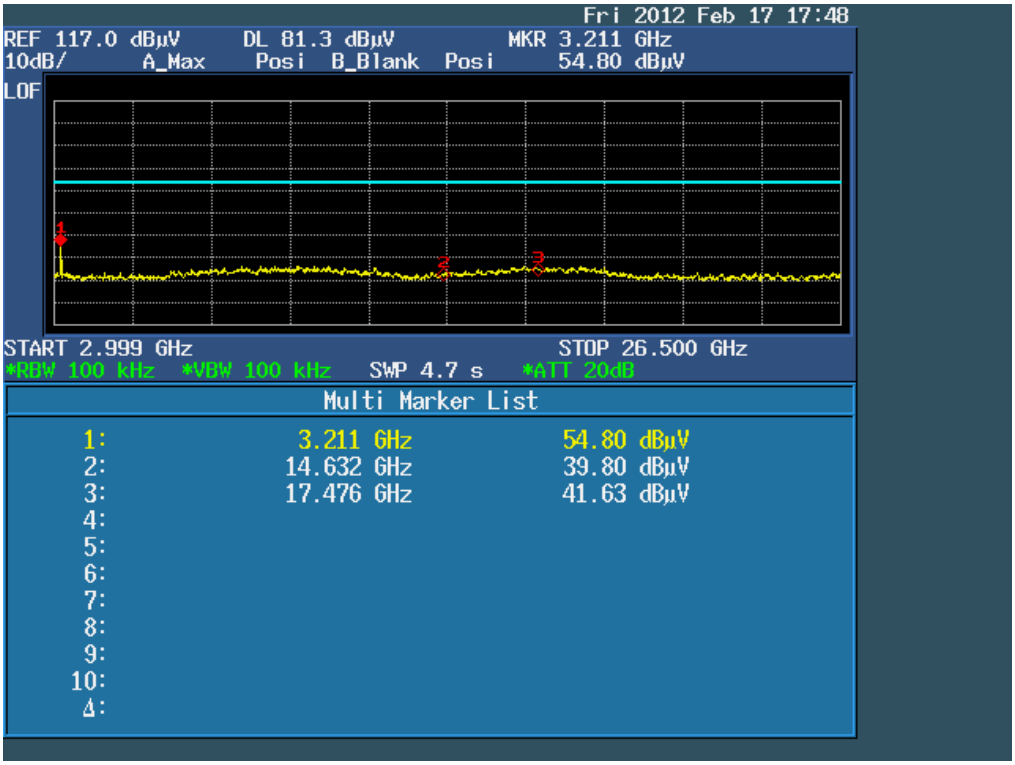
CH 11 Data rate 1Mbps



Ant 1 802.11g

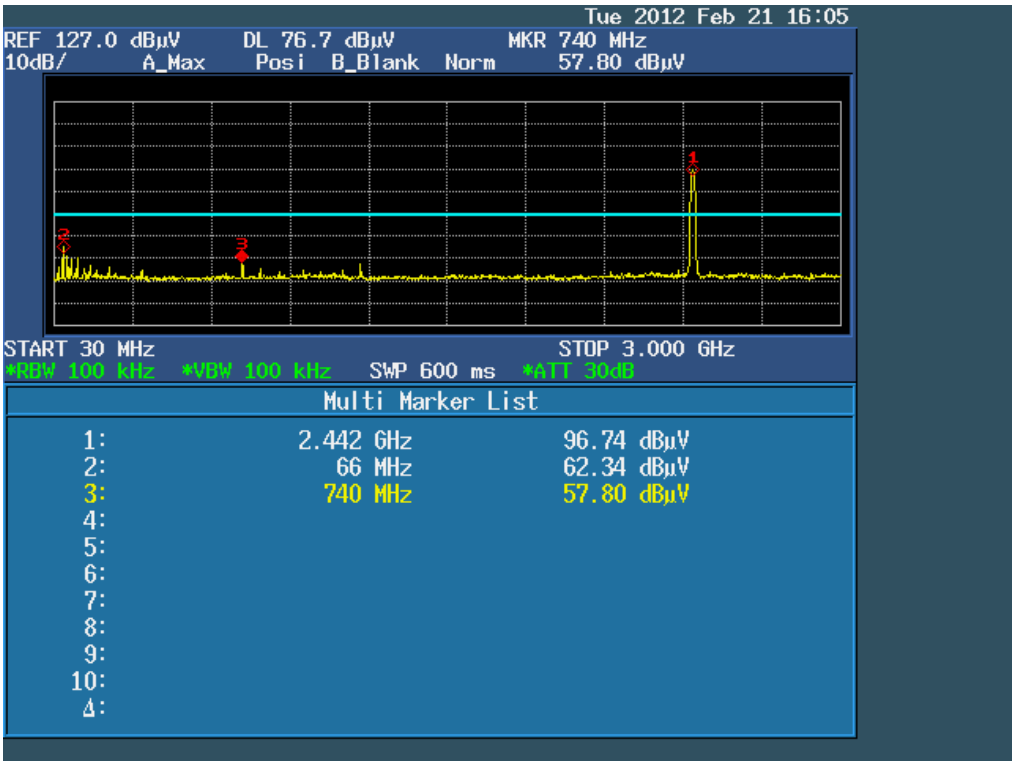
CH 01 Data rate 6Mbps





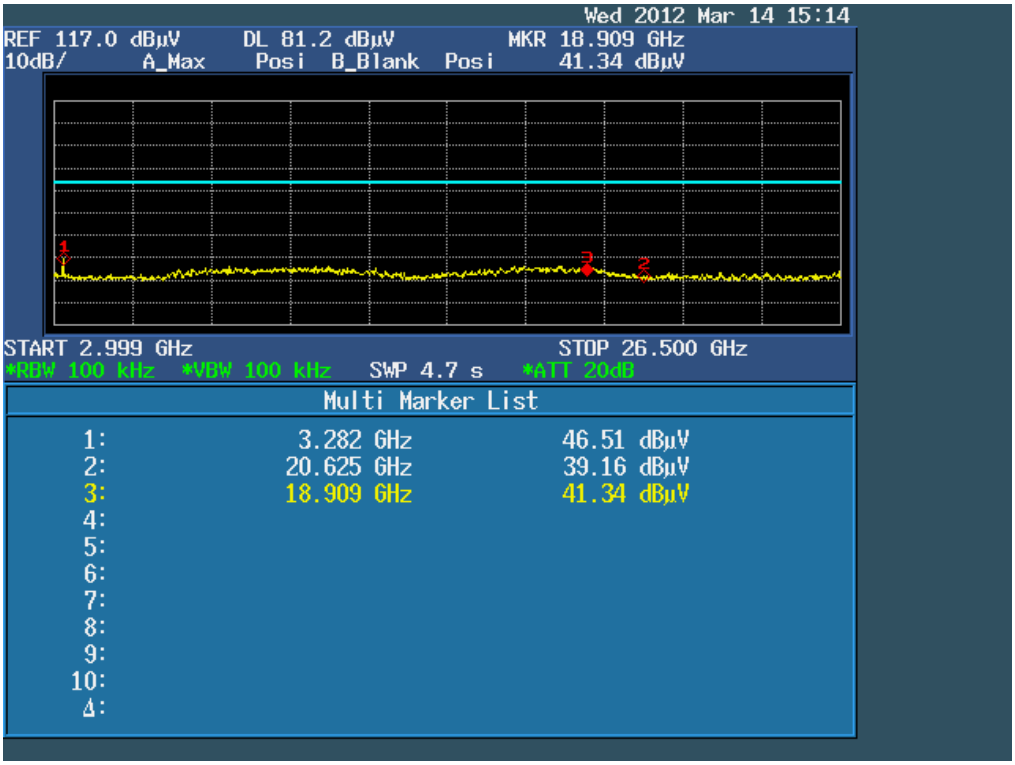
Ant 1 802.11g

CH 07 Data rate 6Mbps



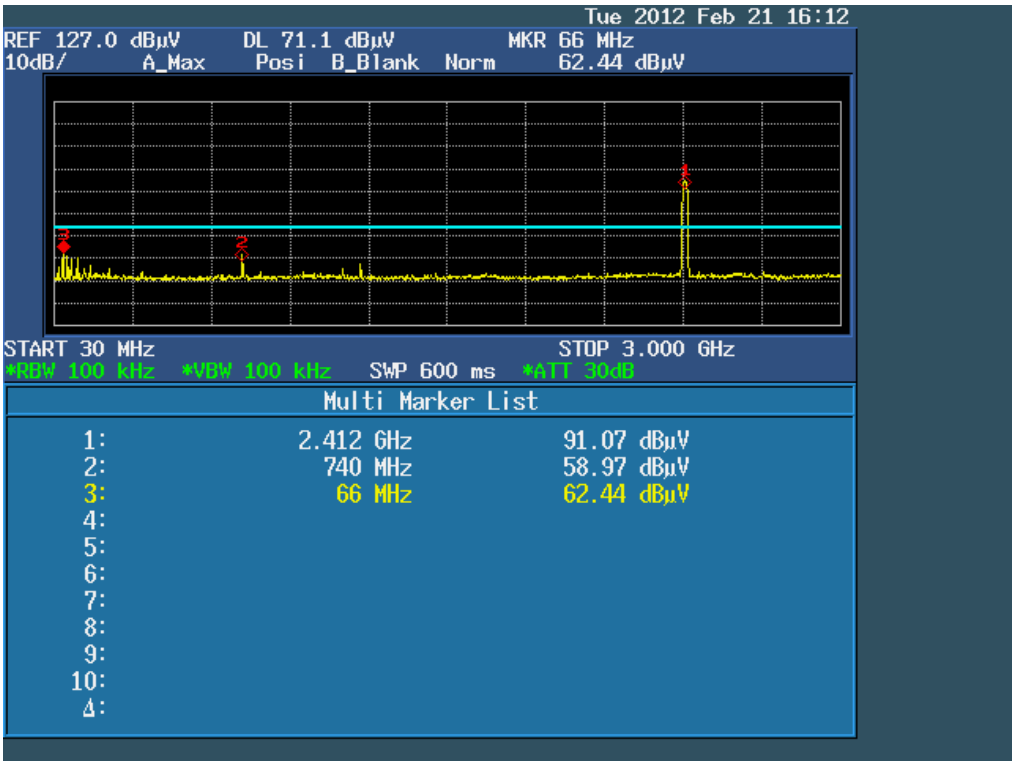
Ant 1 802.11g

CH 11 Data rate 6Mbps



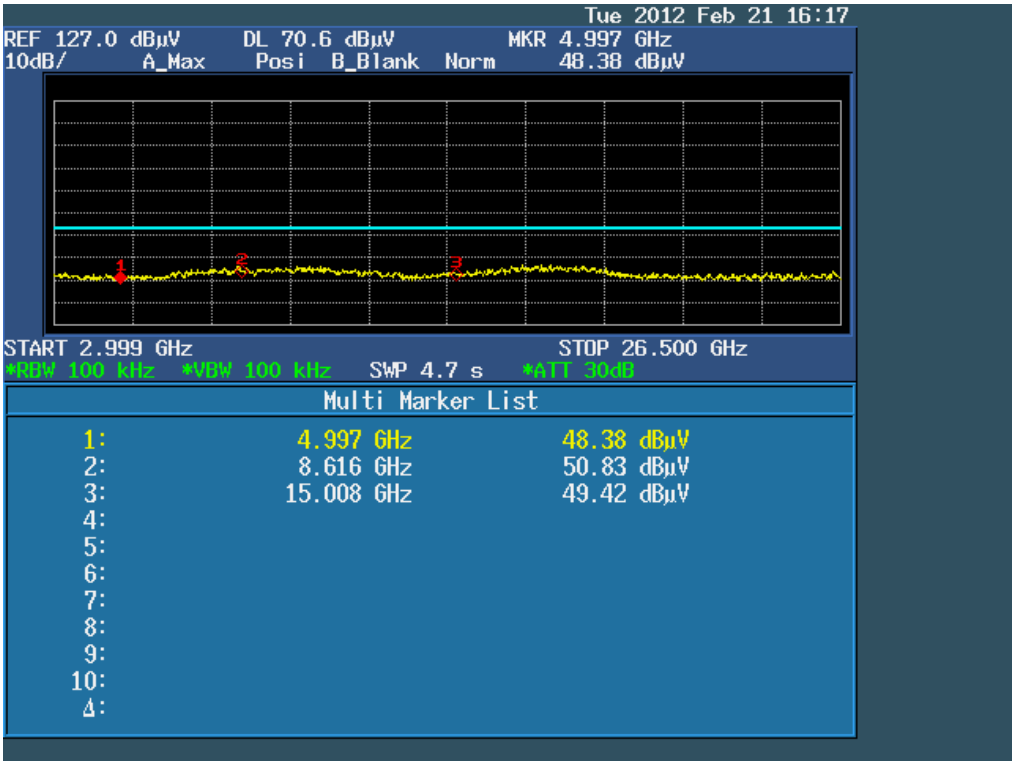
Ant 1 802.11n(20M)

CH 01 Data rate 7.2Mbps



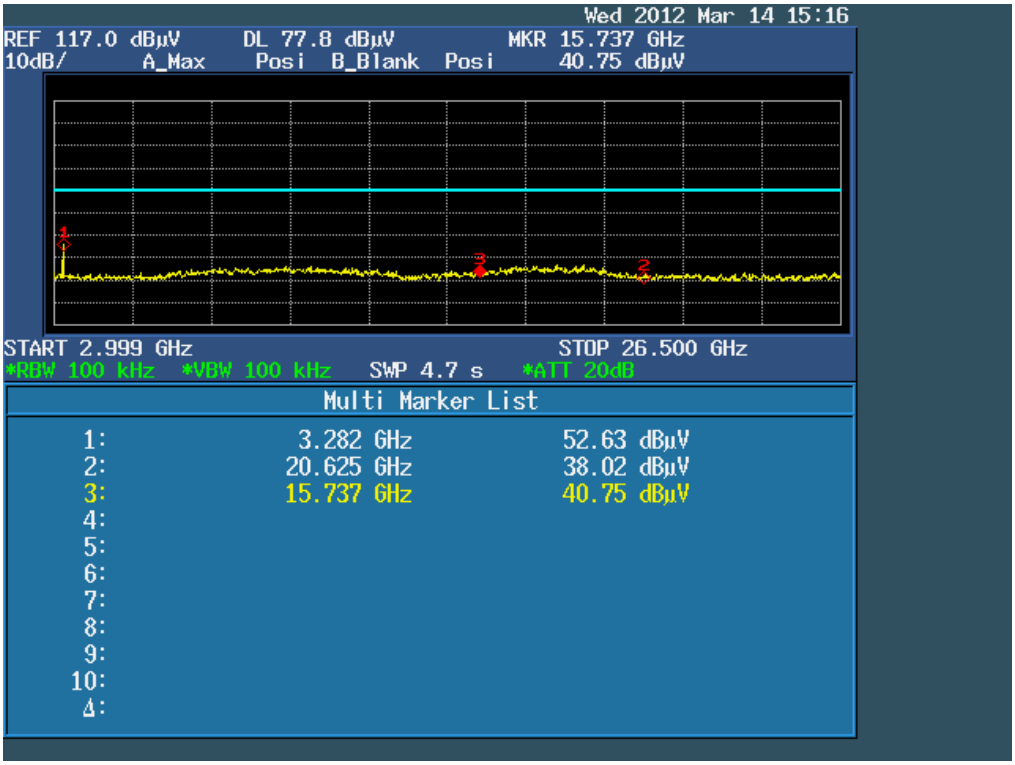
Ant 1 802.11n(20M)

CH 07 Data rate 7.2Mbps



Ant 1 802.11n(20M)

CH 11 Data rate 7.2Mbps



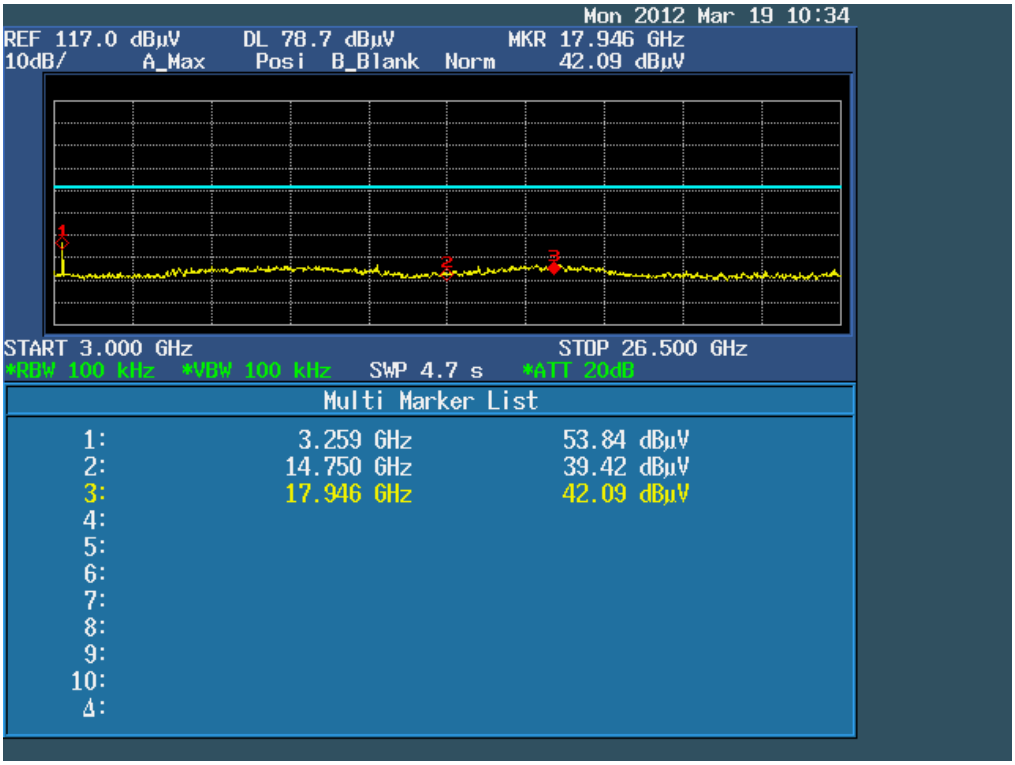
Ant 1 802.11n(40M)

CH 03 Data rate 7.2Mbps

Ant 1 802.11n(40M)

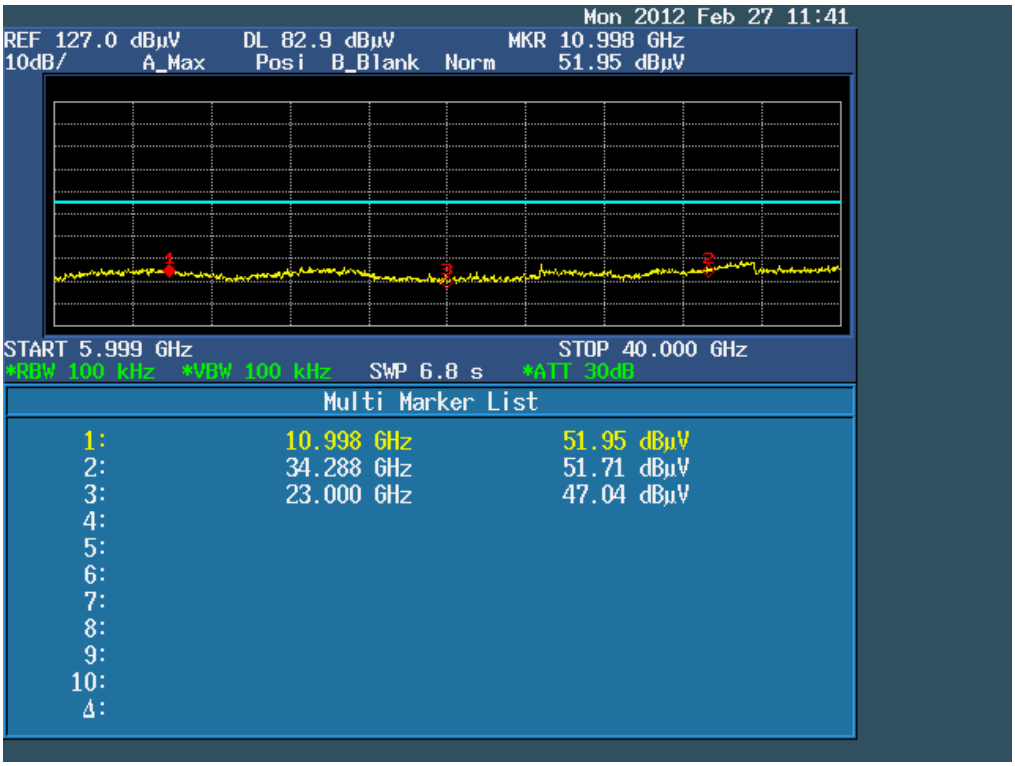
CH 07 Data rate 7.2Mbps

Ant 1 802.11n(40M)
CH 09 Data rate 7.2Mbps

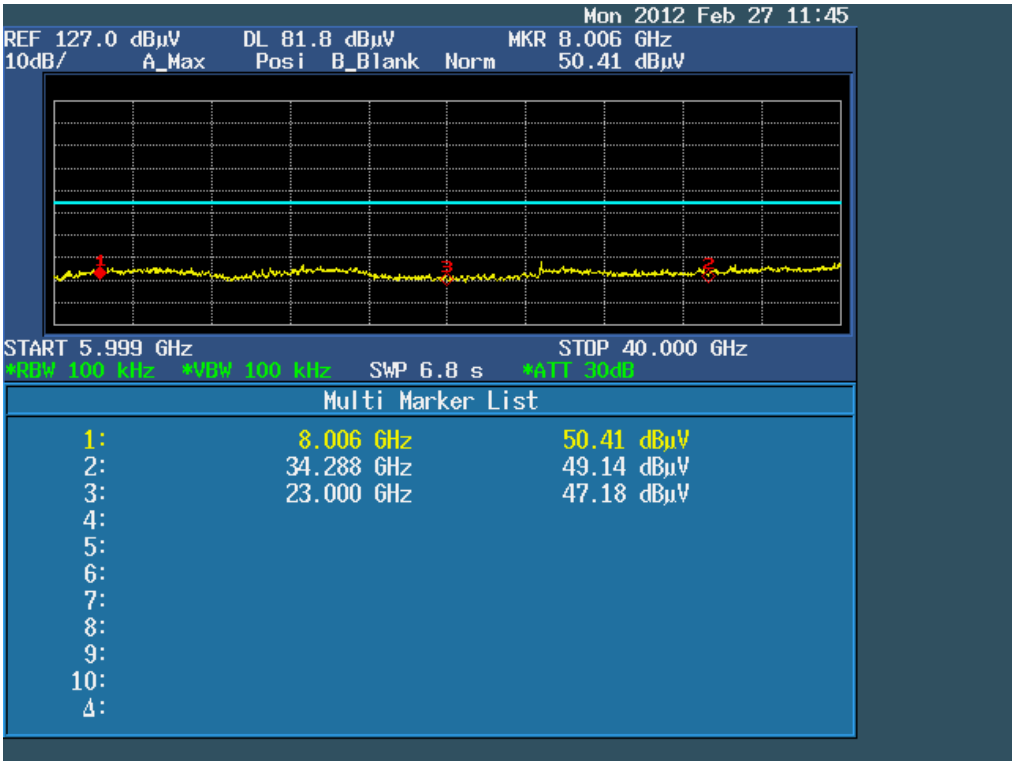


Ant 1 802.11a (5.725GHz-5.850GHz)

CH149 Data rate 6Mbps



Ant 1 802.11a (5.725GHz-5.850GHz)
CH157 Data rate 6Mbps

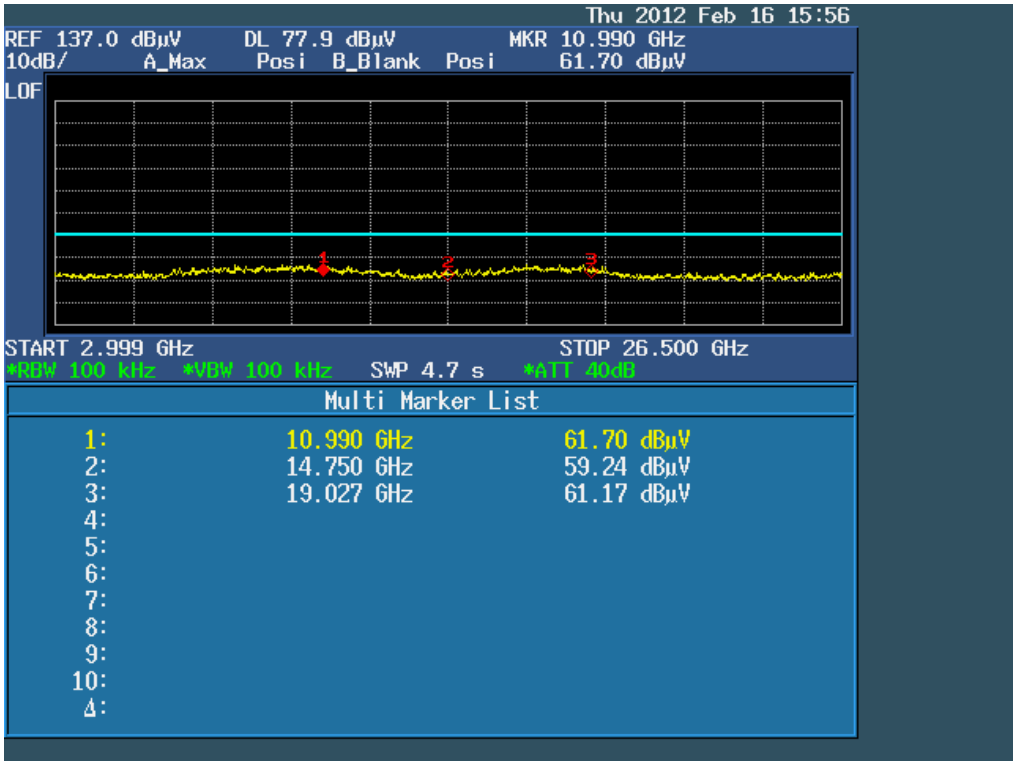


Ant 1 802.11a (5.725GHz-5.850GHz)

CH161 Data rate 6Mbps

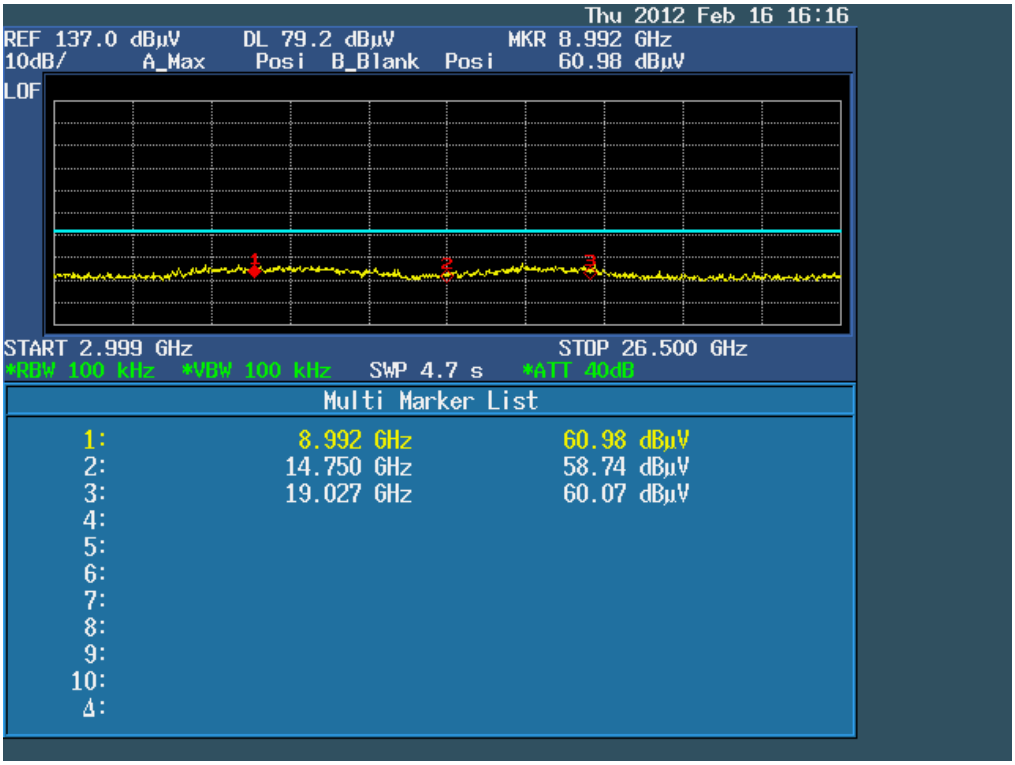
Ant 2 802.11b

CH 01 Data rate 1Mbps



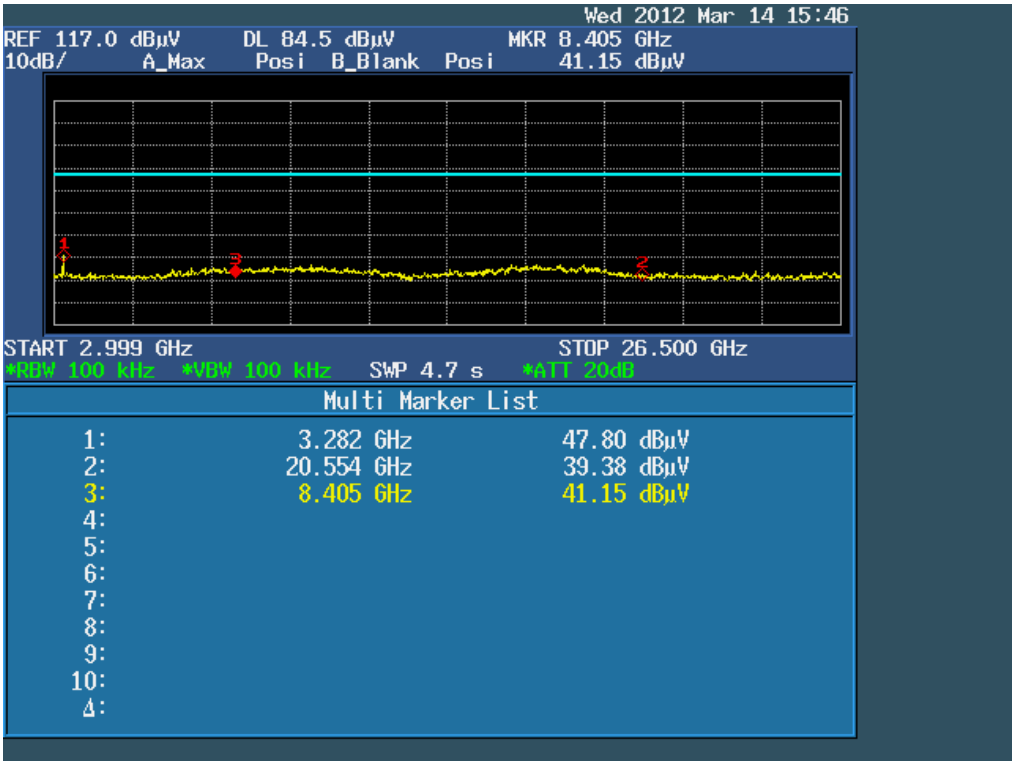
Ant 2 802.11b

CH 07 Data rate 1Mbps



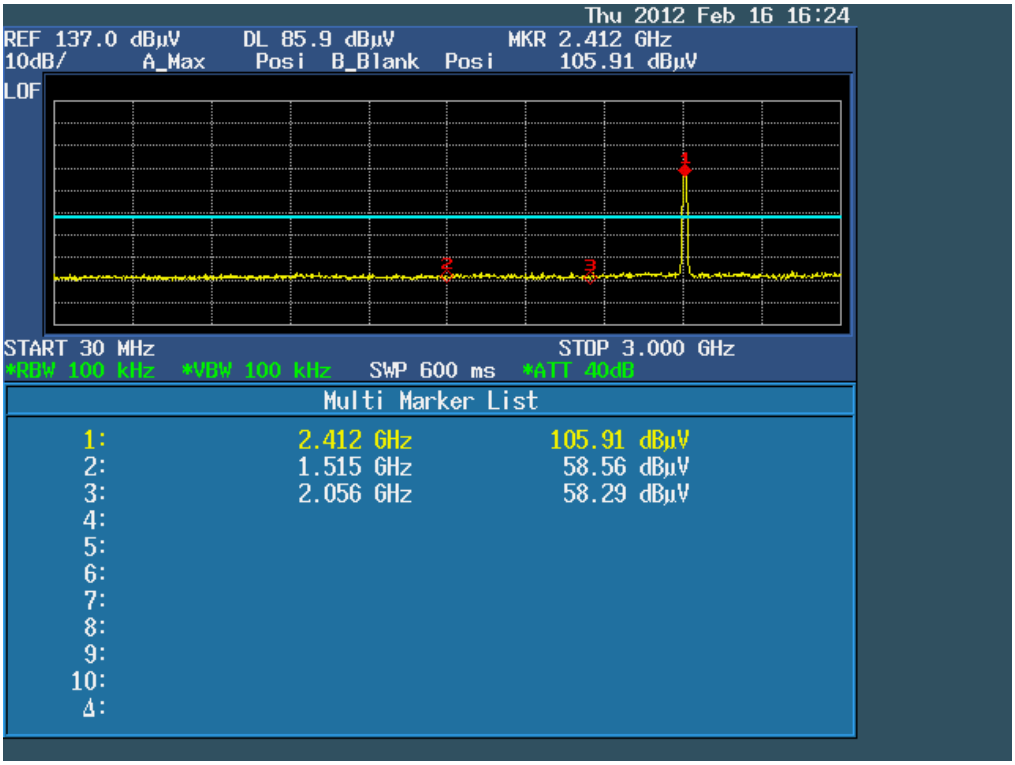
Ant 2 802.11b

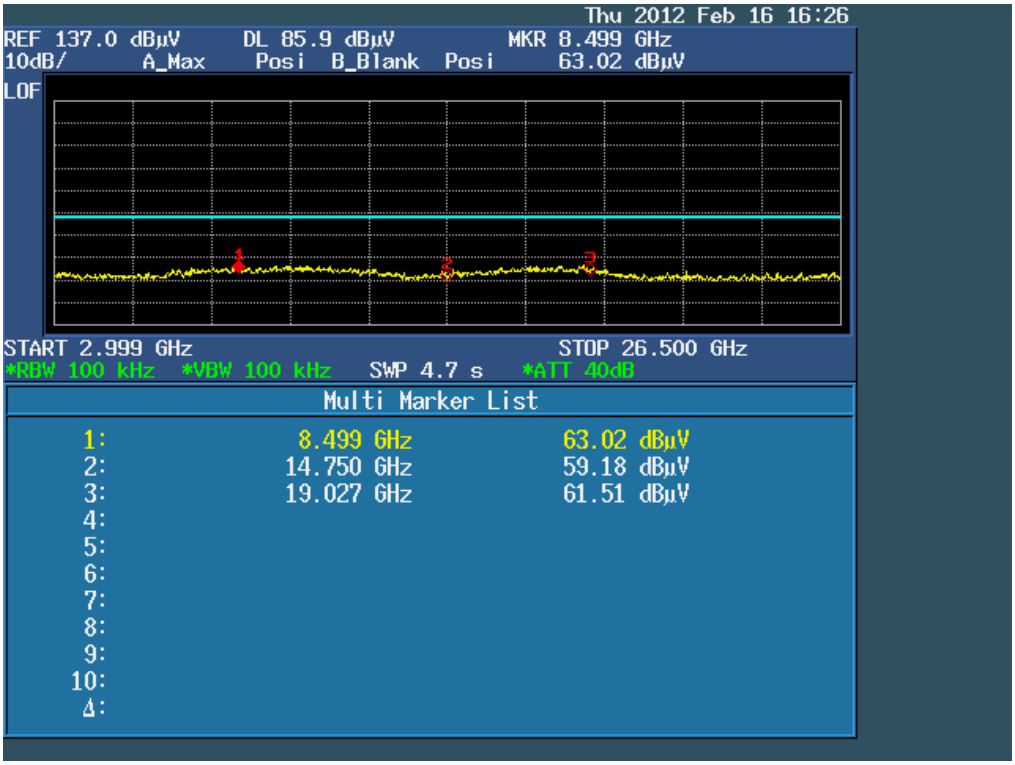
CH 11 Data rate 1Mbps



Ant 2 802.11g

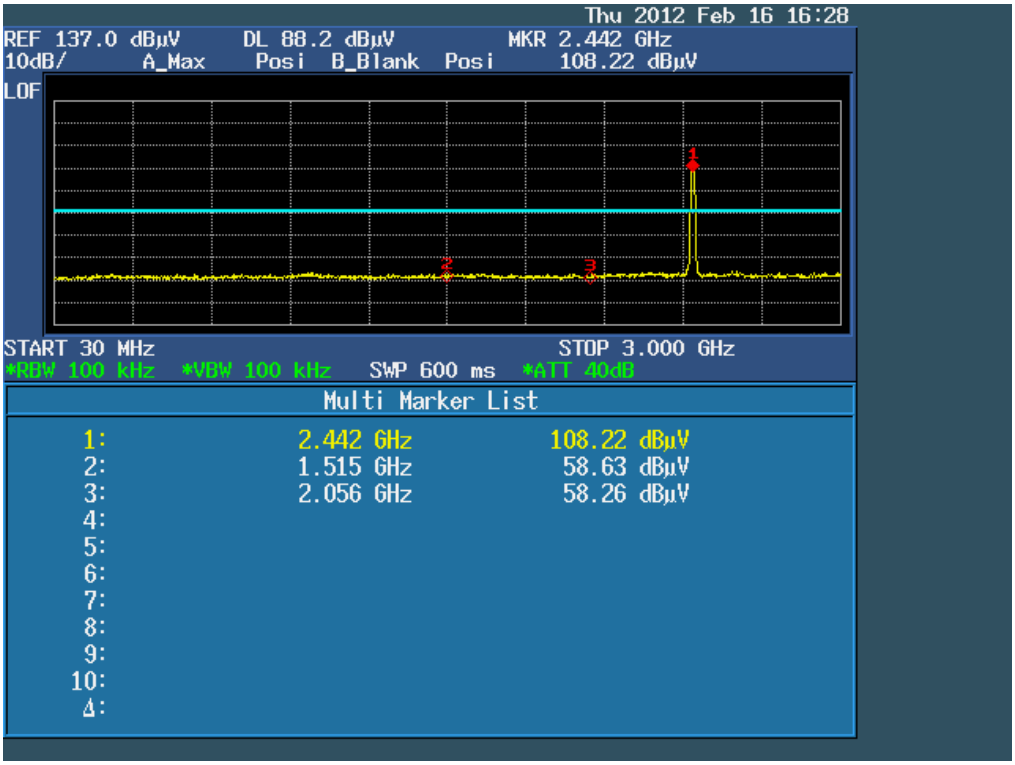
CH 01 Data rate 6Mbps

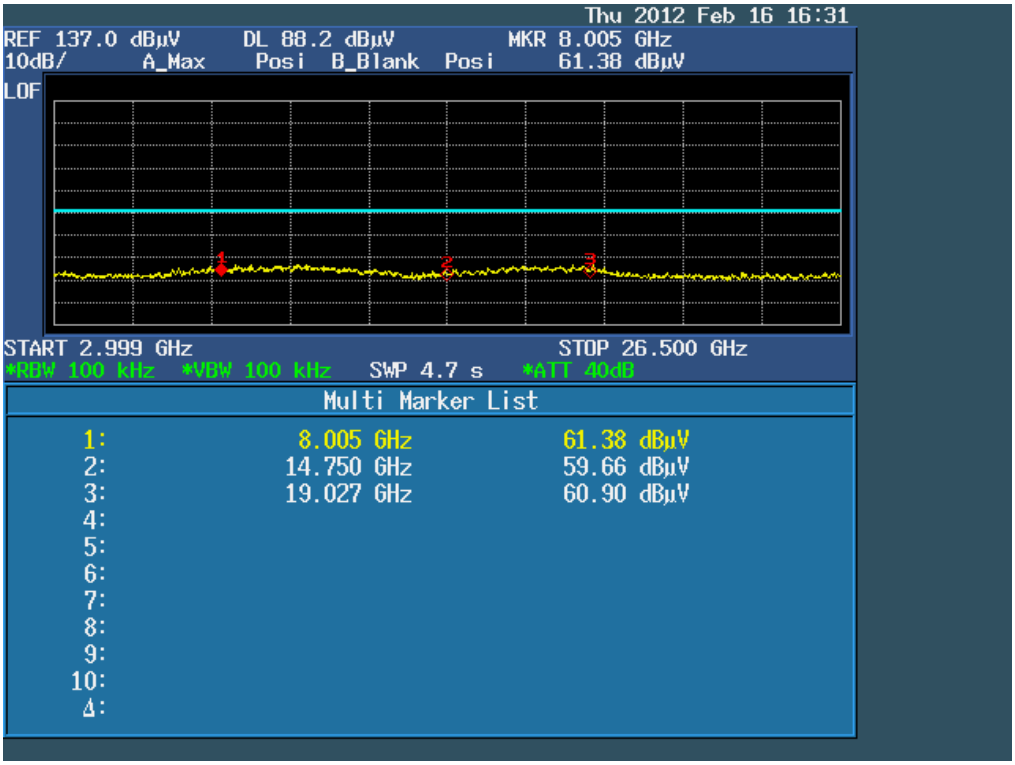




Ant 2 802.11g

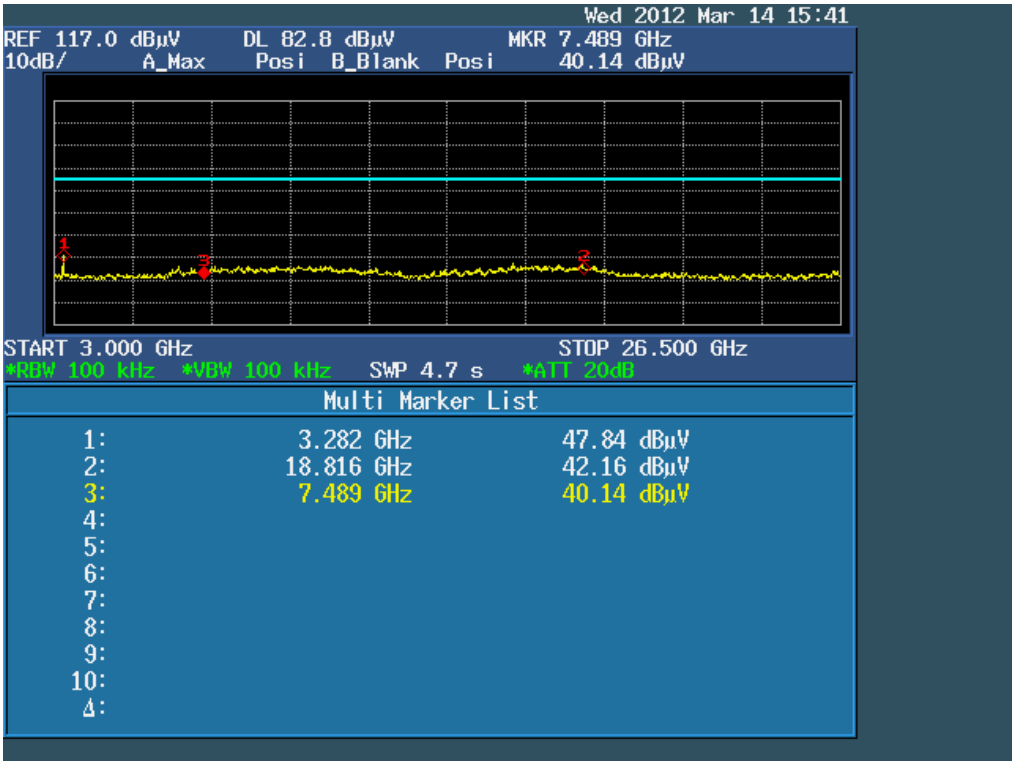
CH 07 Data rate 6Mbps





Ant 2 802.11g

CH 11 Data rate 6Mbps

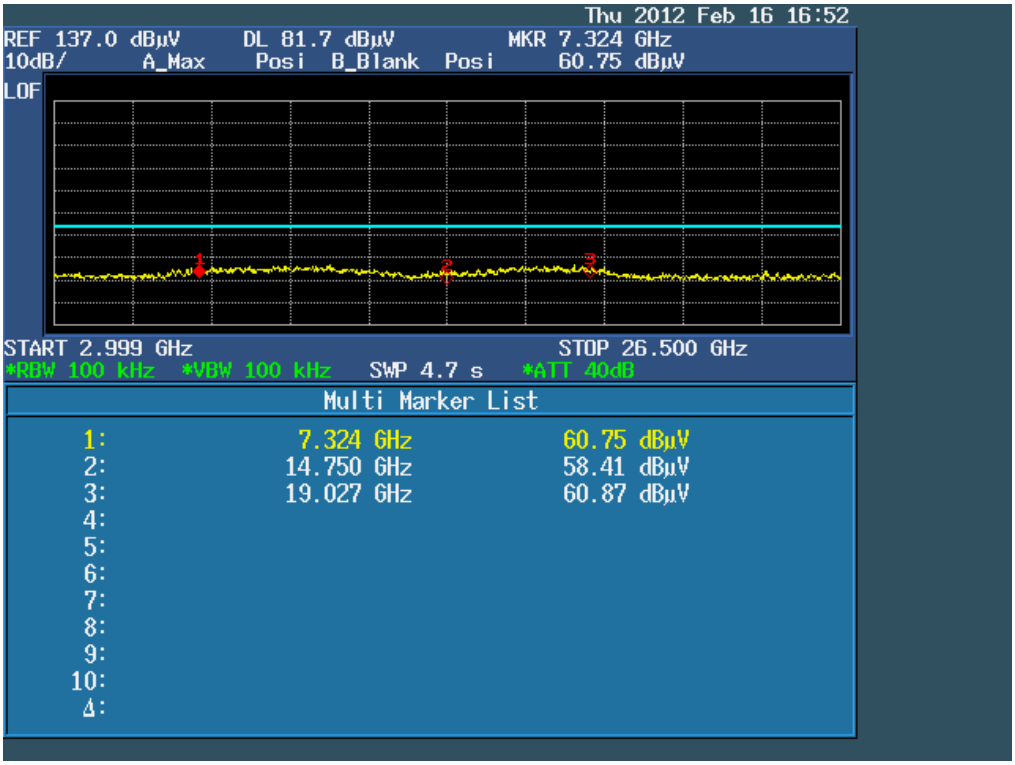


Ant 2 802.11n(20M)

CH 01 Data rate 7.2Mbps

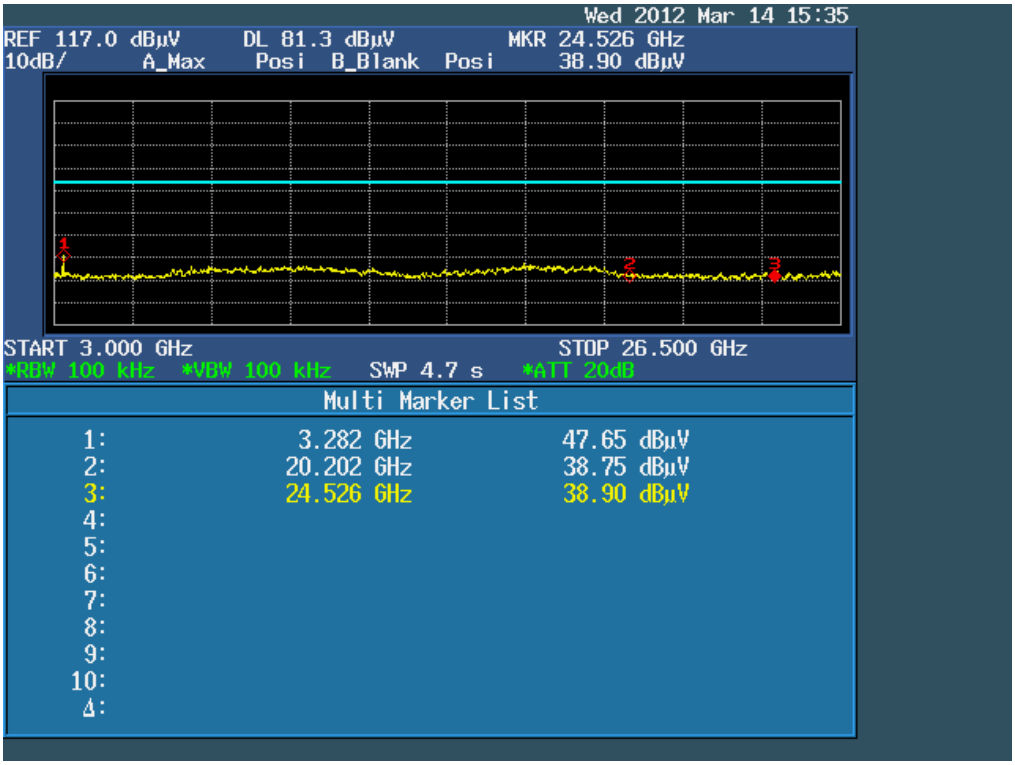
Ant 2 802.11n(20M)

CH 07 Data rate 7.2Mbps



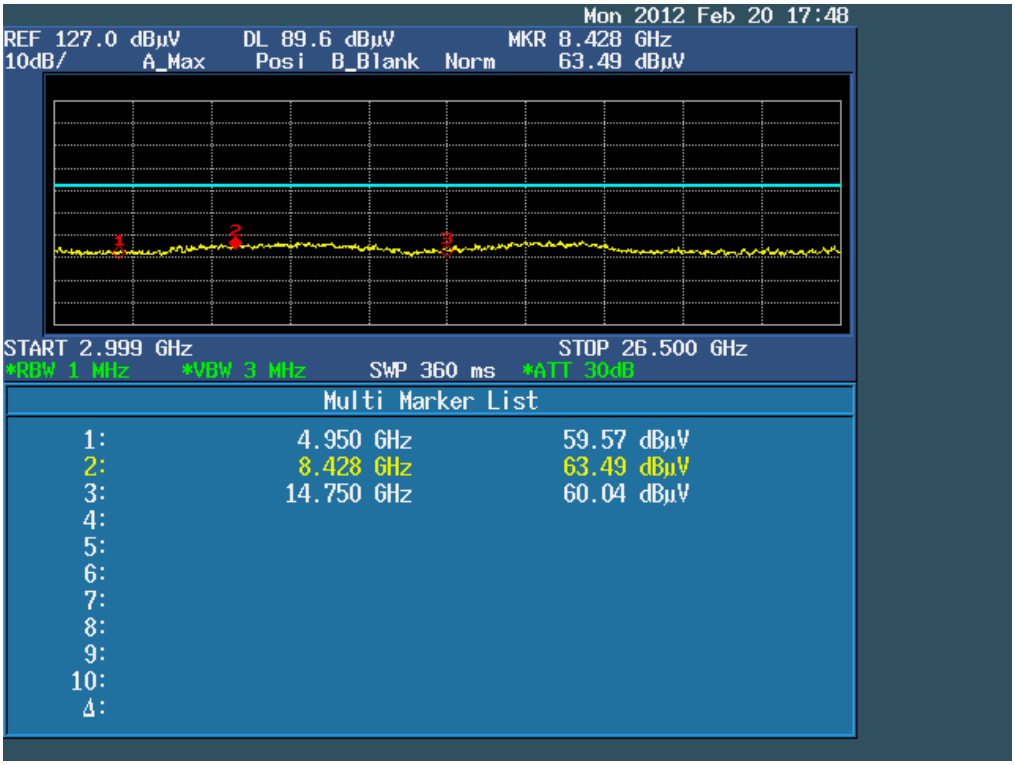
Ant 2 802.11n(20M)

CH 11 Data rate 7.2Mbps



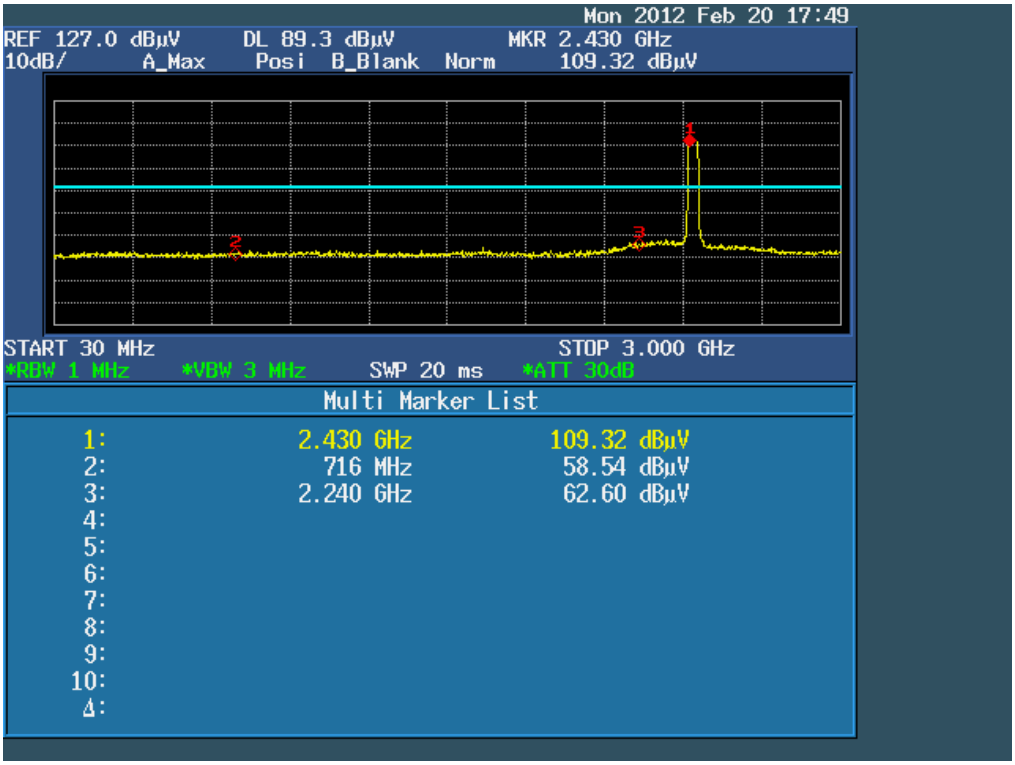
Ant 2 802.11n(40M)

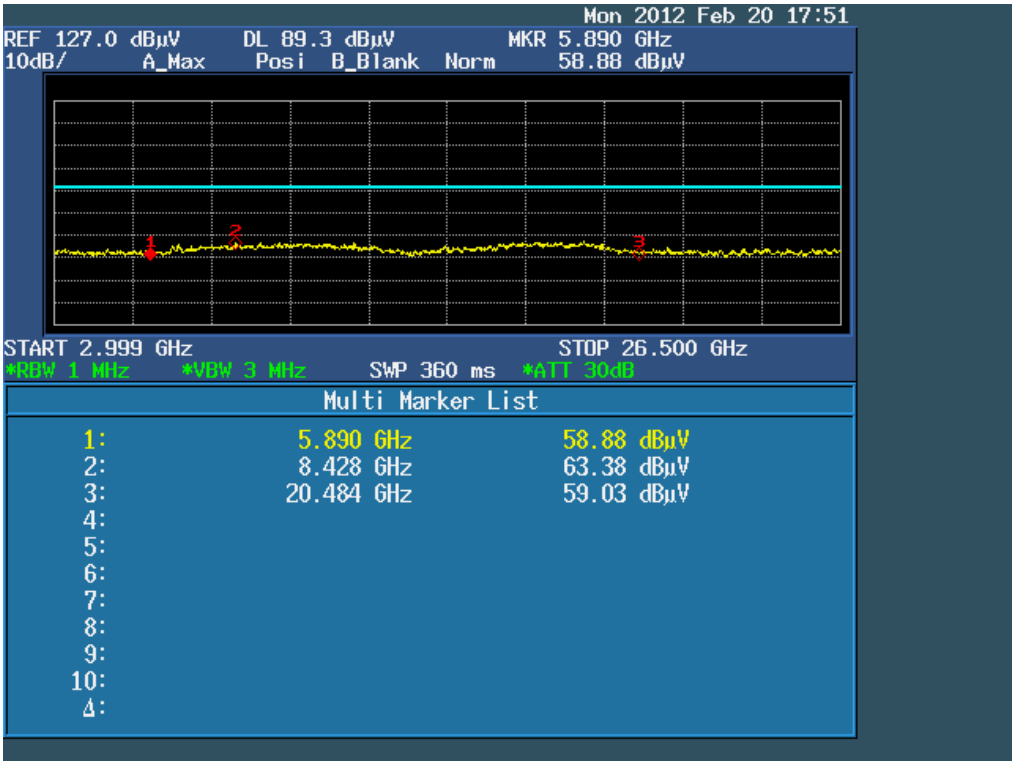
CH 03 Data rate 7.2Mbps



Ant 2 802.11n(40M)

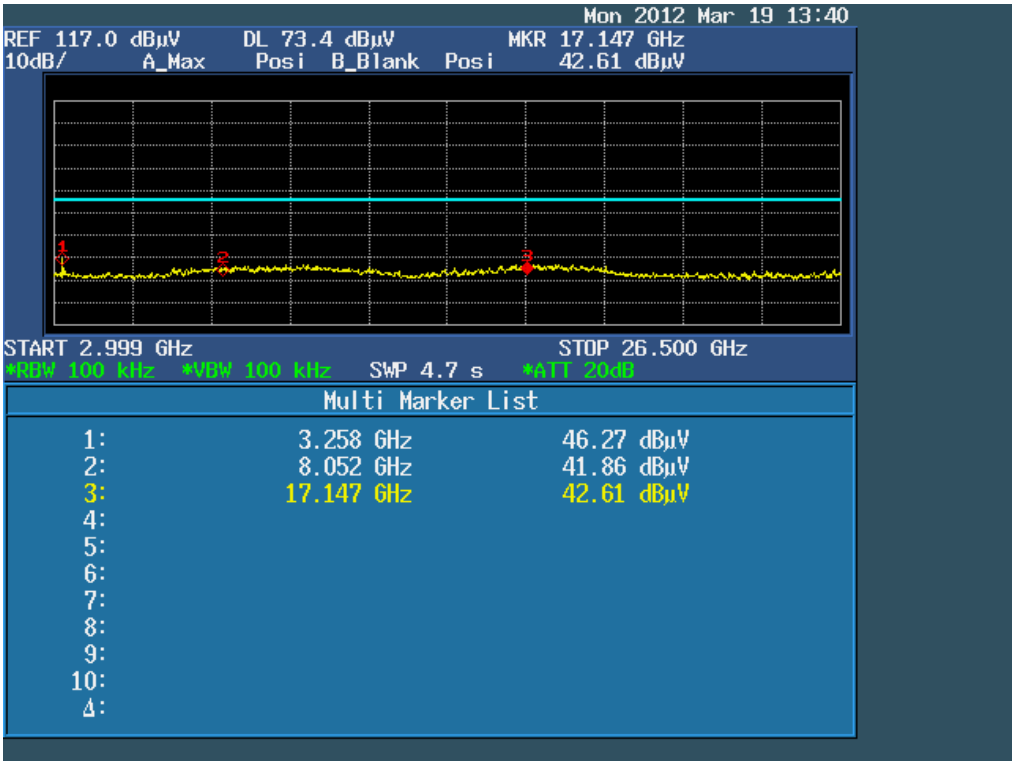
CH 07 Data rate 7.2Mbps





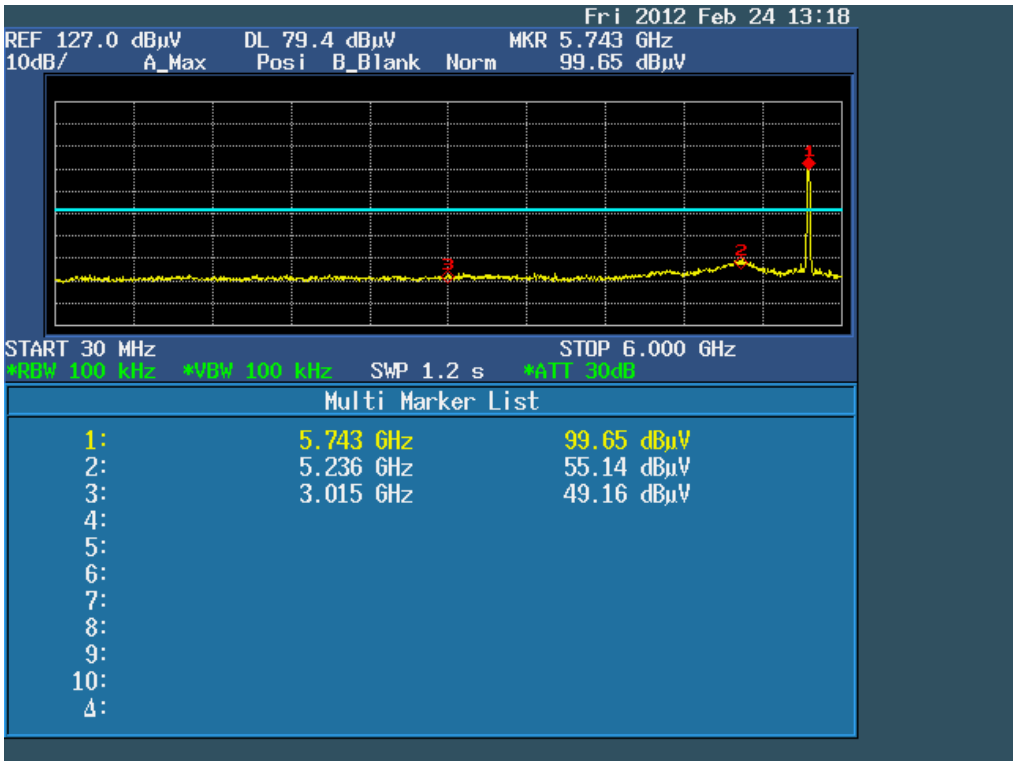
Ant 2 802.11n(40M)

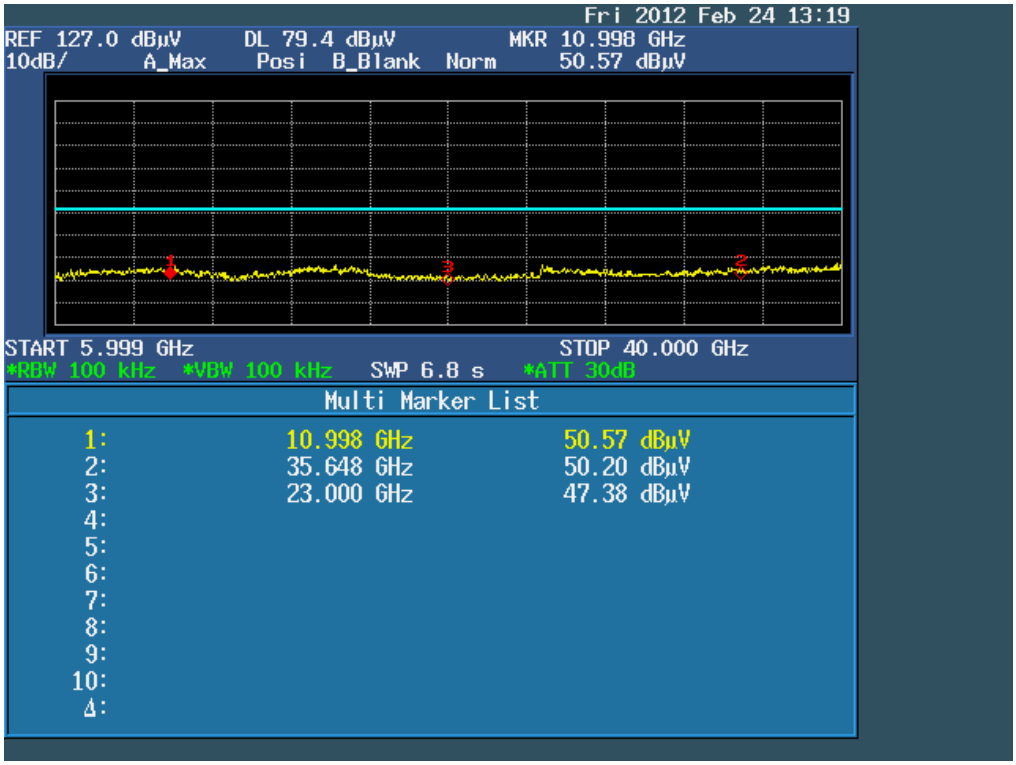
CH 09 Data rate 7.2Mbps



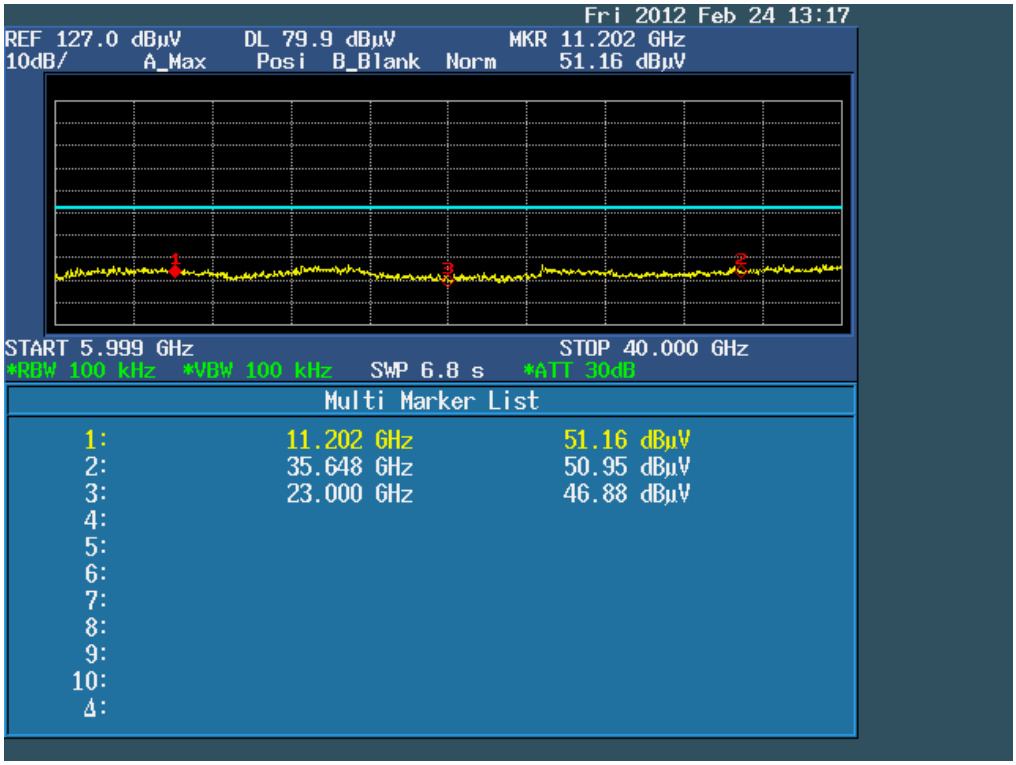
Ant 2 802.11a (5.725GHz-5.850GHz)

CH 149 Data rate 6Mbps



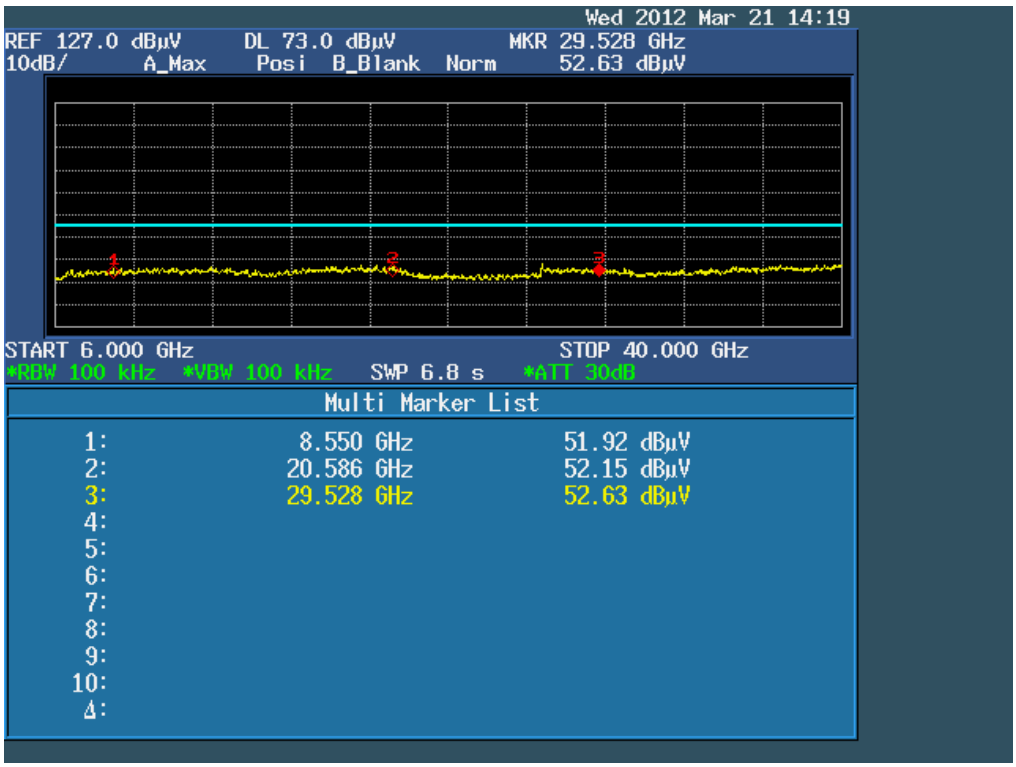


Ant 2 802.11a (5.725GHz-5.850GHz)
CH 157 Data rate 6Mbps



Ant 2 802.11a (5.725GHz-5.850GHz)

CH 161 Data rate 6Mbps

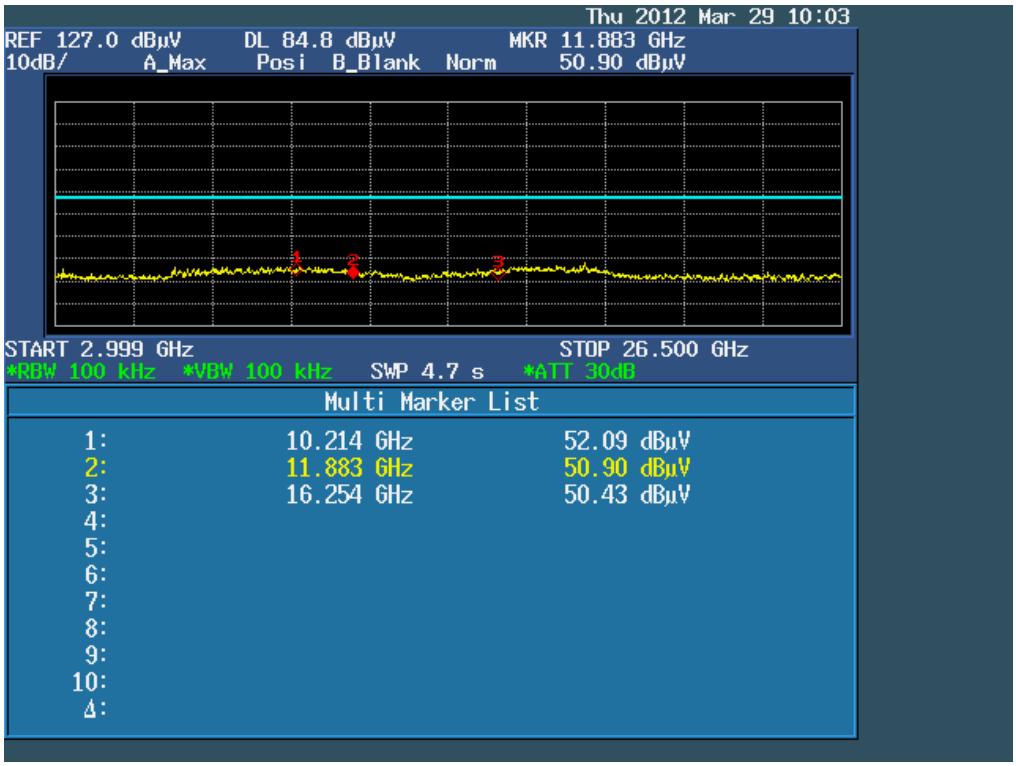


Ant 1+ Ant 2 802.11b

CH 01 Data rate 1Mbps

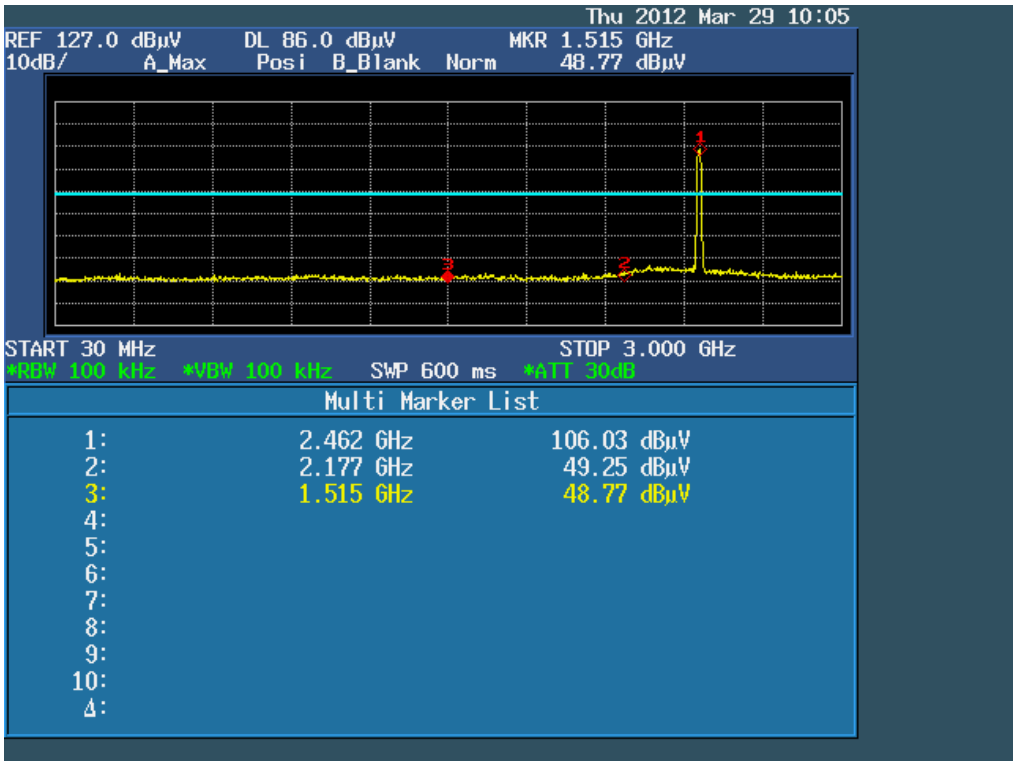
Ant 1+ Ant 2 802.11b

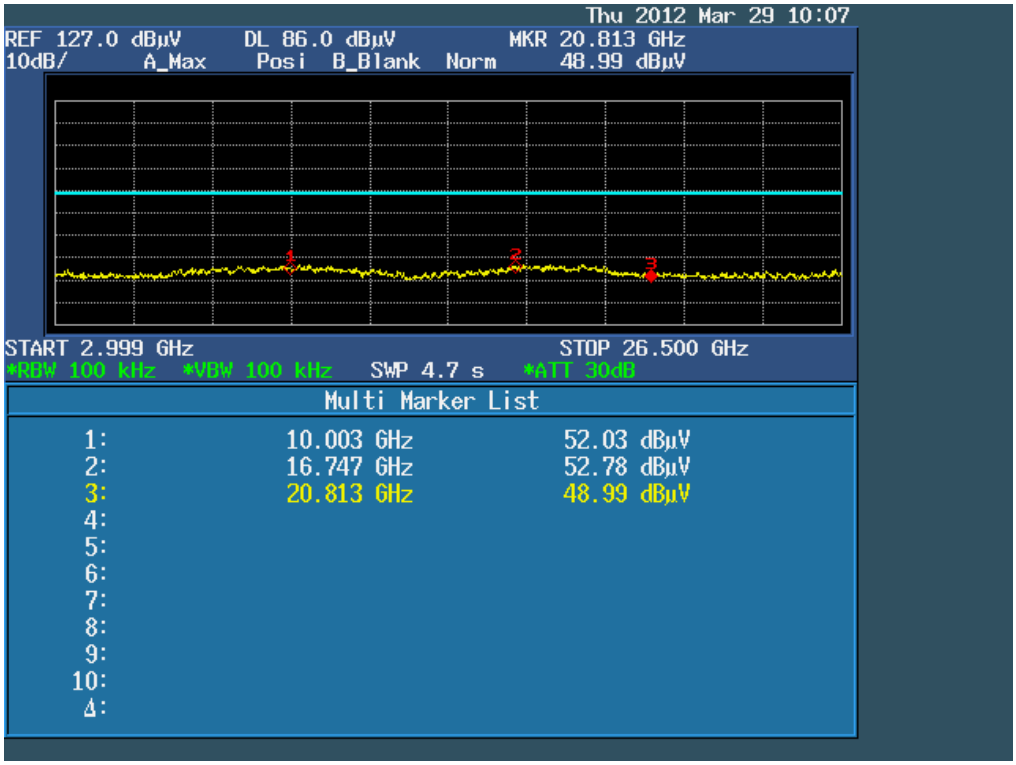
CH 07 Data rate 1Mbps



Ant 1+ Ant 2 802.11b

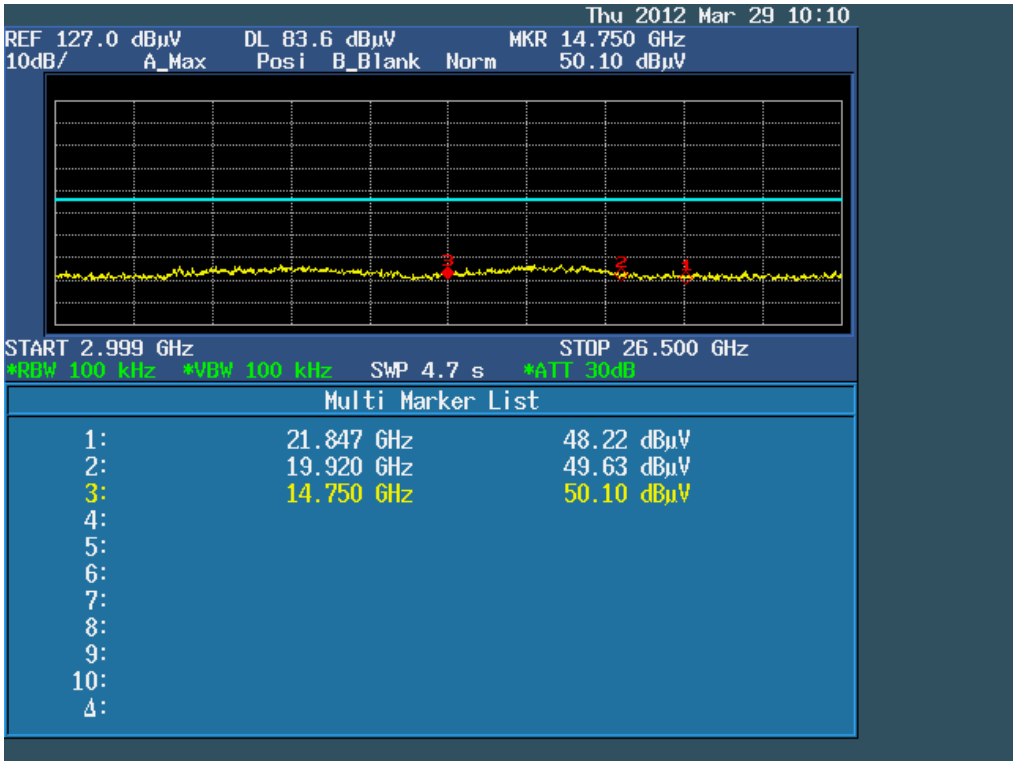
CH 11 Data rate 1Mbps



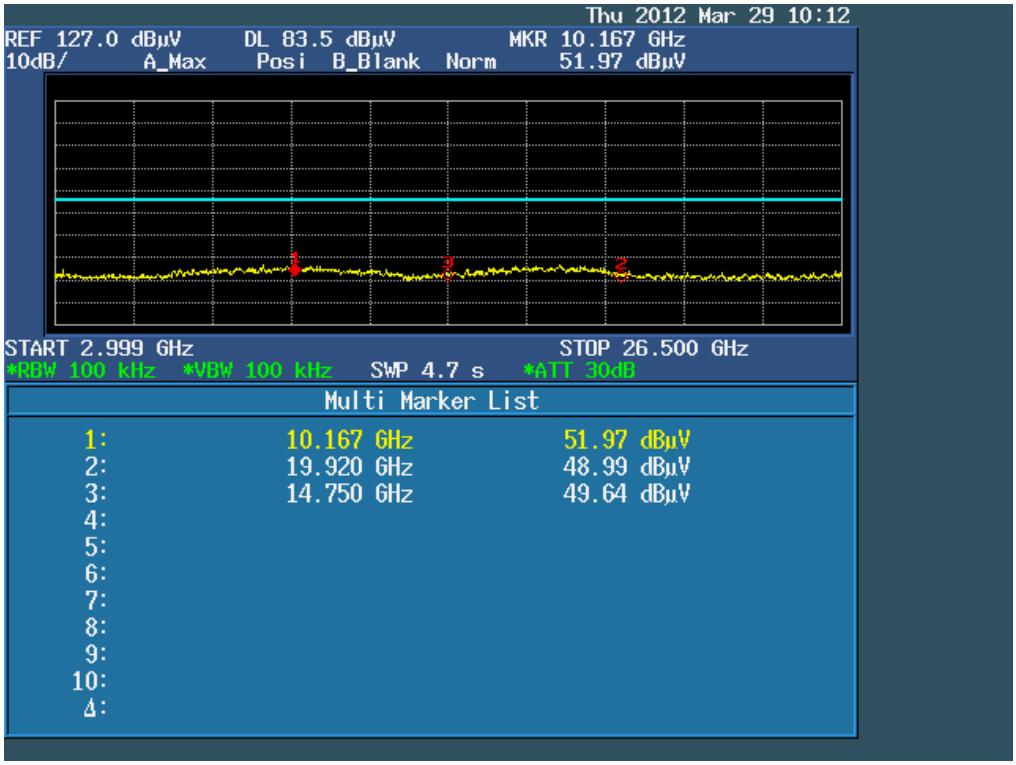


Ant 1+ Ant 2 802.11g

CH 01 Data rate 6Mbps

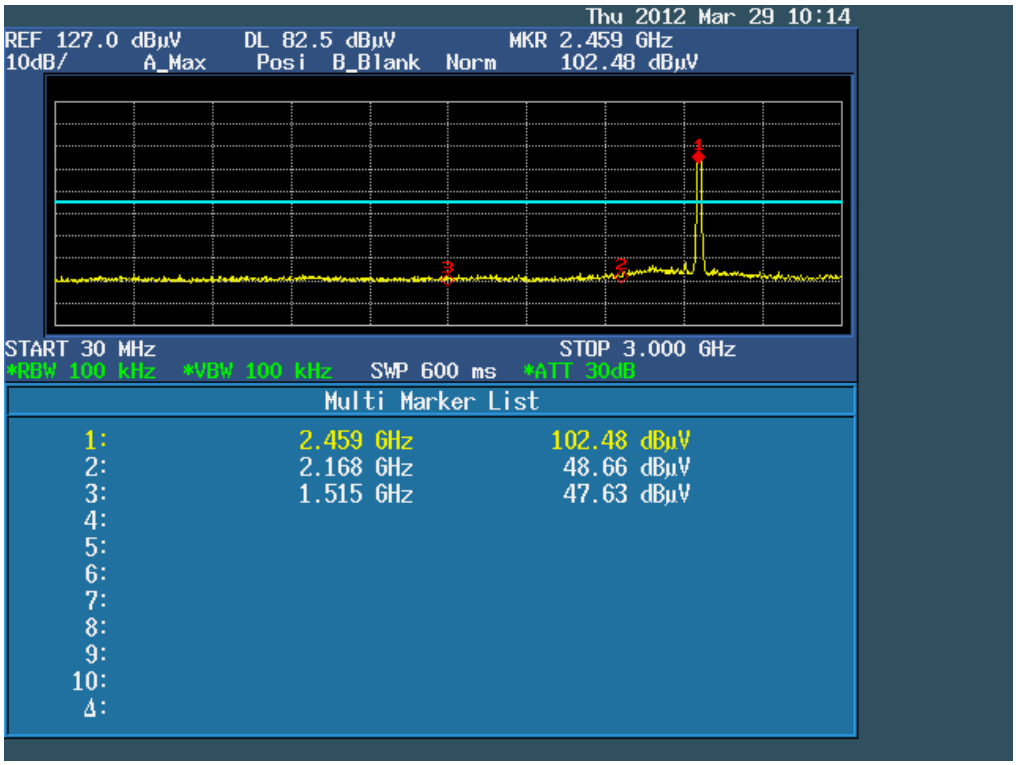


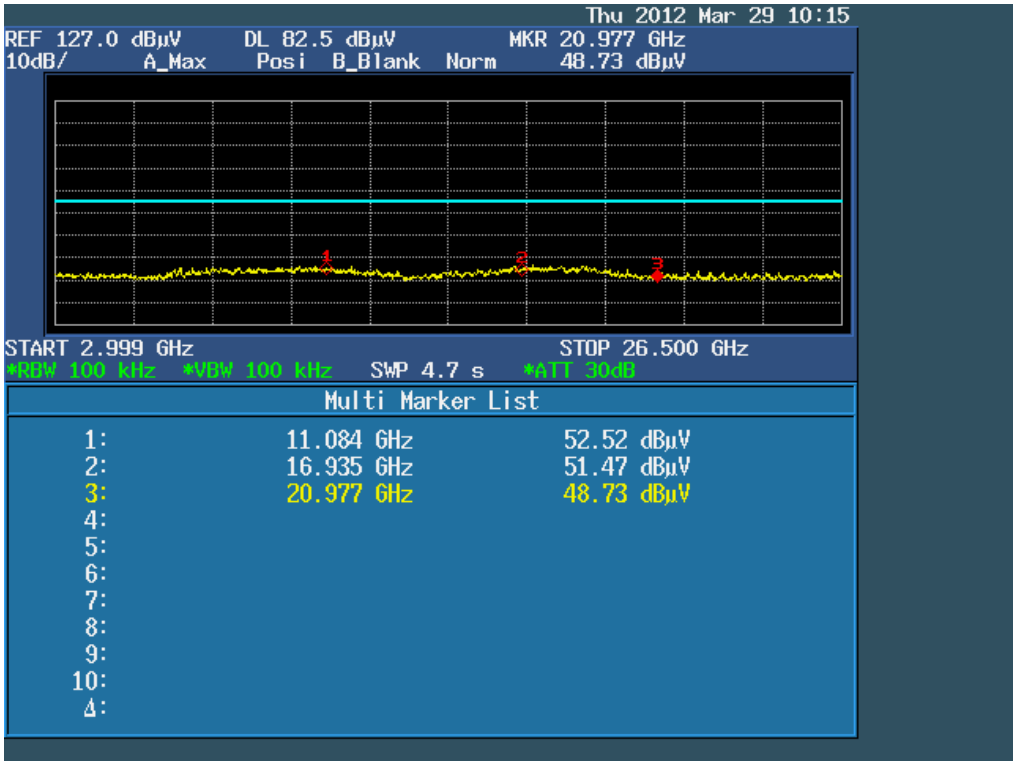
Ant 1+ Ant 2 802.11g
CH 07 Data rate 6Mbps



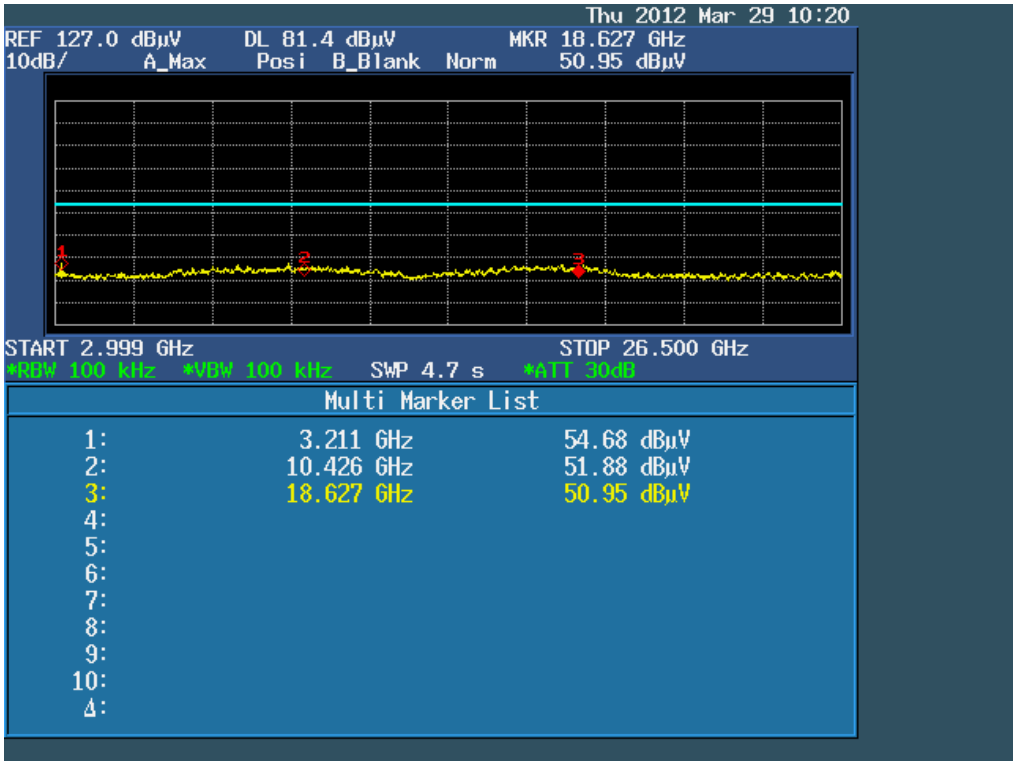
Ant 1+ Ant 2 802.11g

CH 11 Data rate 6Mbps

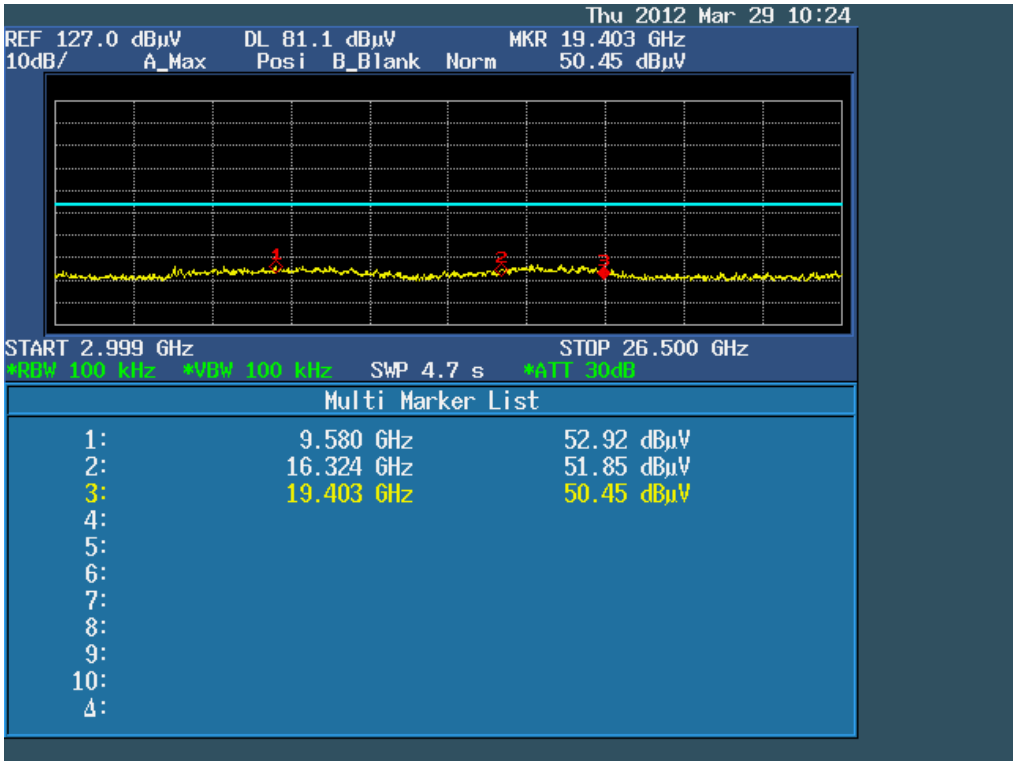




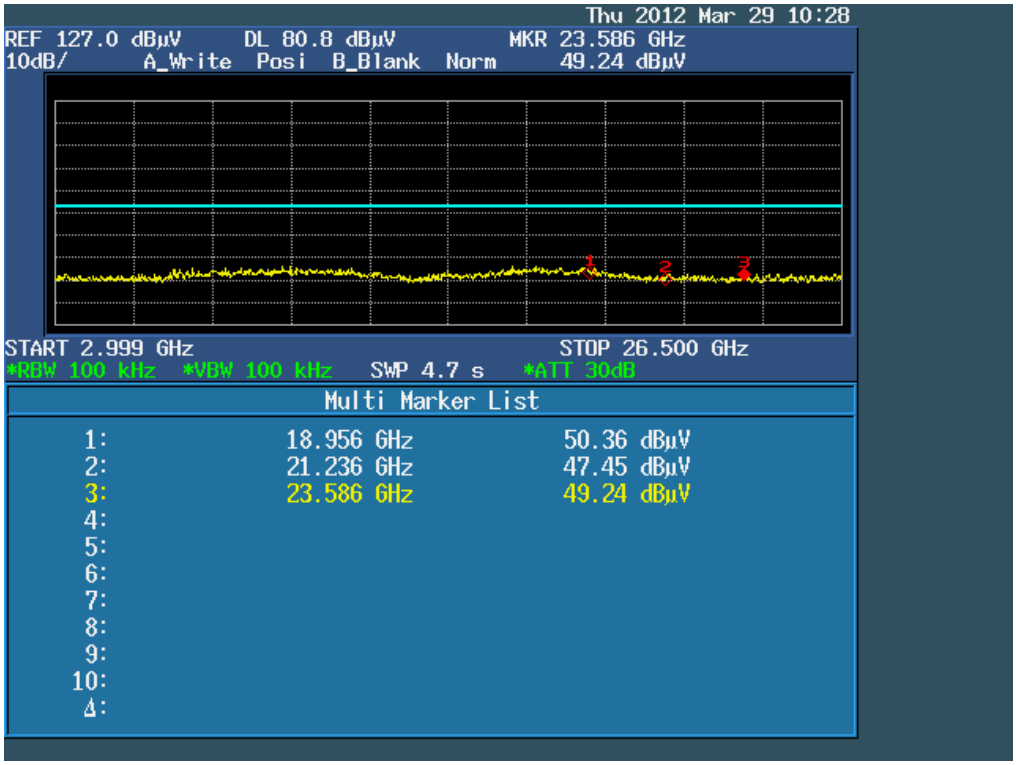
Ant 1+ Ant 2 802.11n(20M)
CH 01 Data rate 7.2Mbps



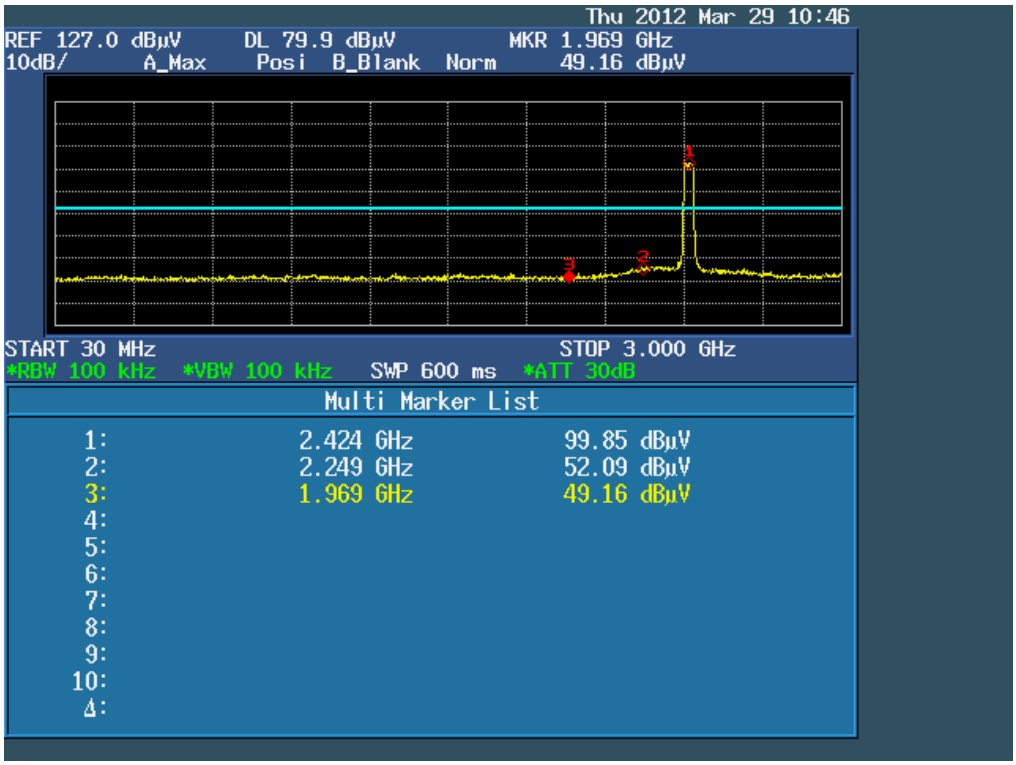
Ant 1+ Ant 2 802.11n(20M)
CH 07 Data rate 7.2Mbps

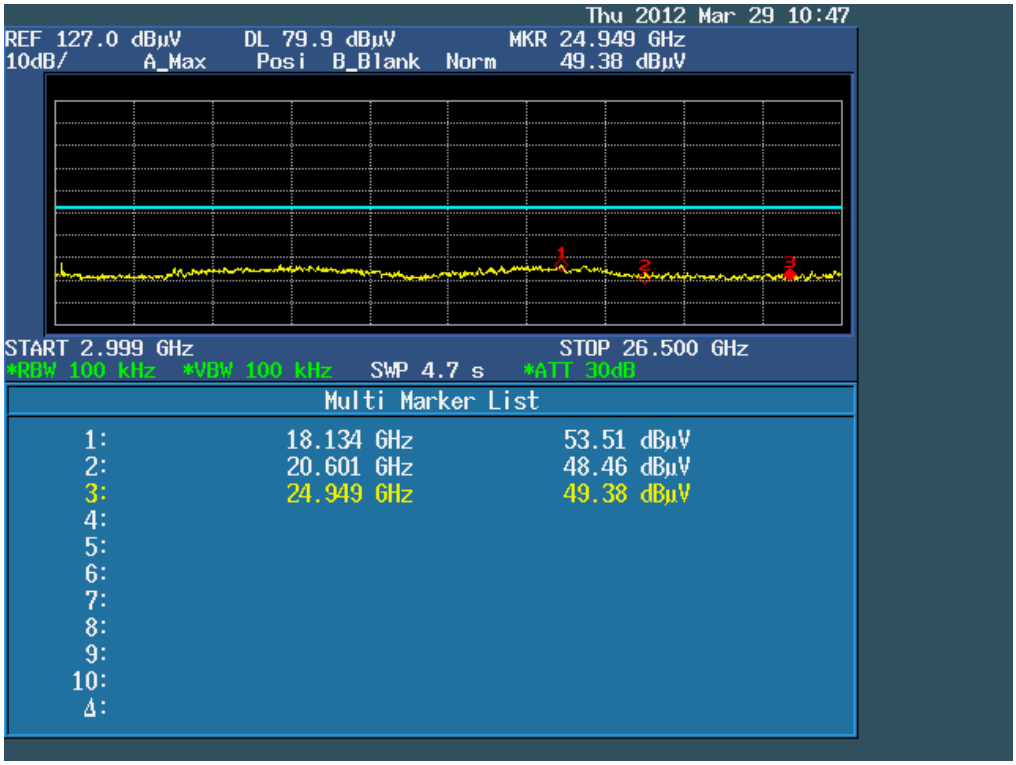


Ant 1+ Ant 2 802.11n(20M)
CH 11 Data rate 7.2Mbps

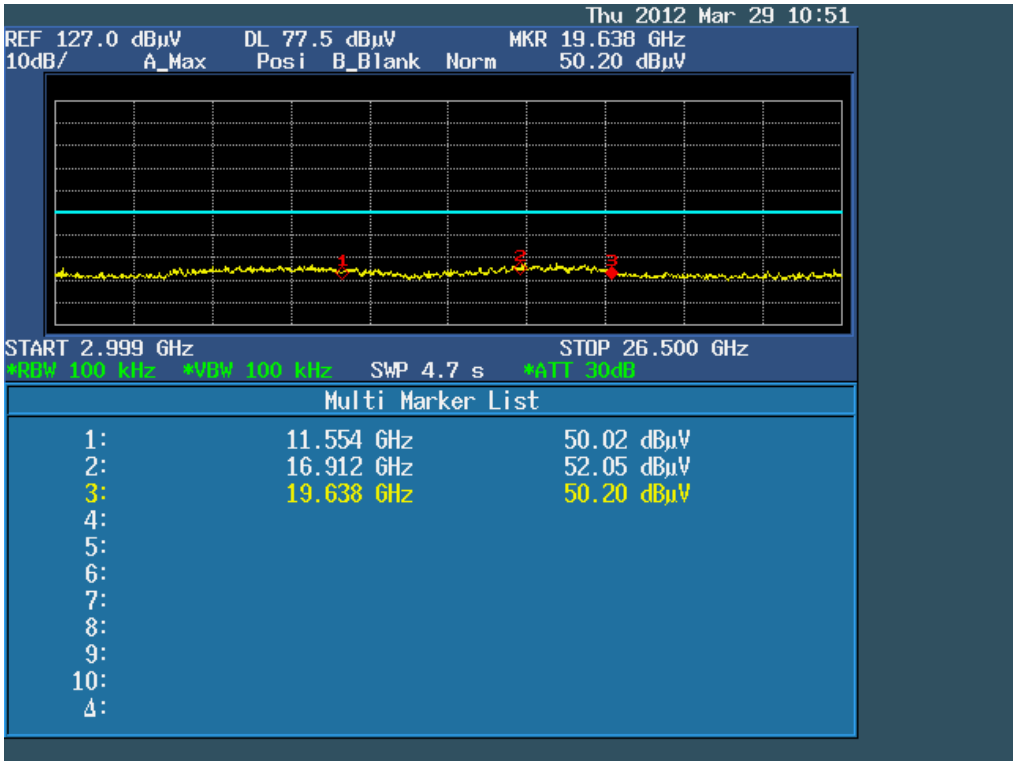


Ant 1+ Ant 2 802.11n(40M)
CH 03 Data rate 7.2Mbps

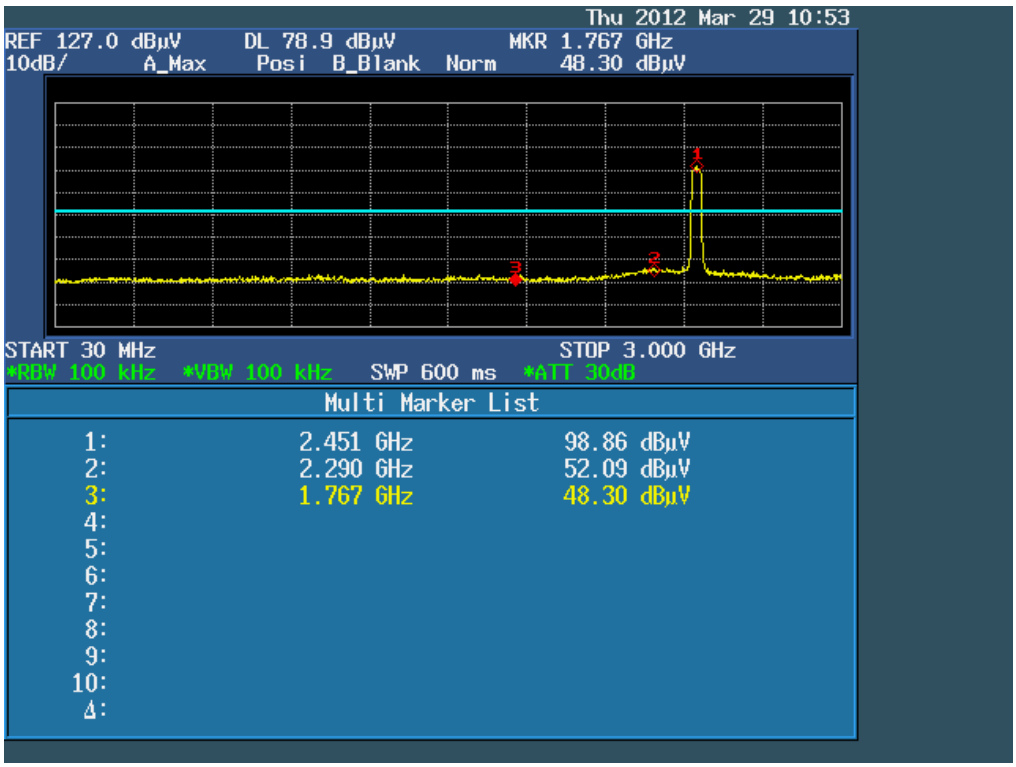




Ant 1+ Ant 2 802.11n(40M)
CH 07 Data rate 7.2Mbps

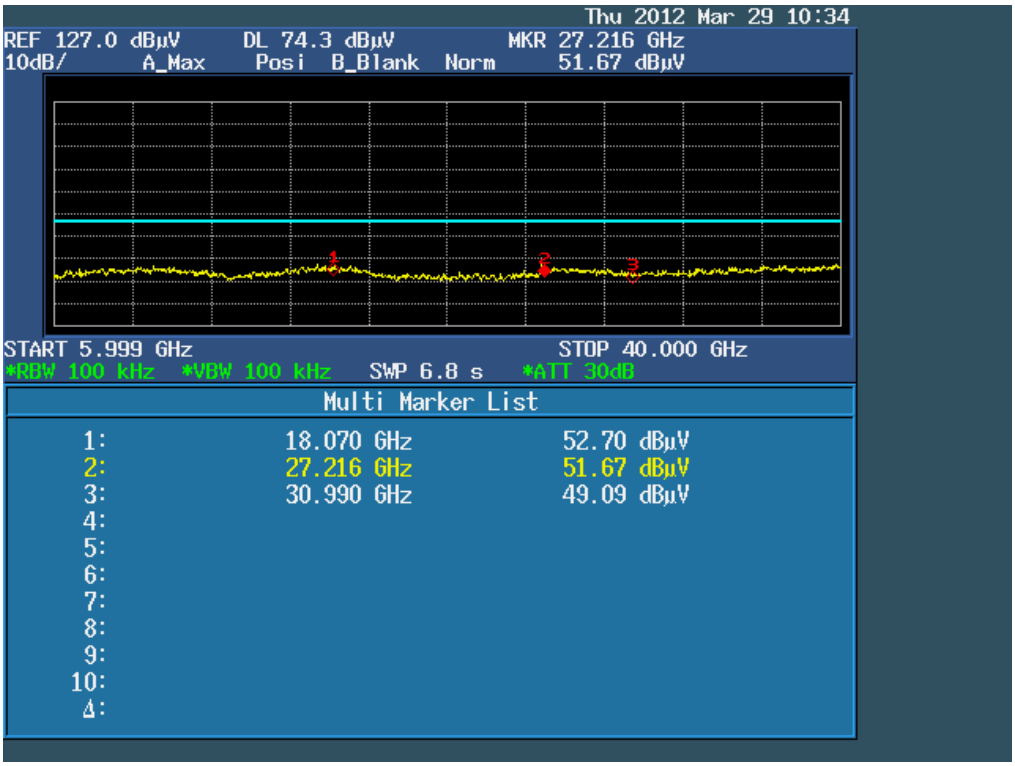


Ant 1+ Ant 2 802.11n(40M)
CH 09 Data rate 7.2Mbps

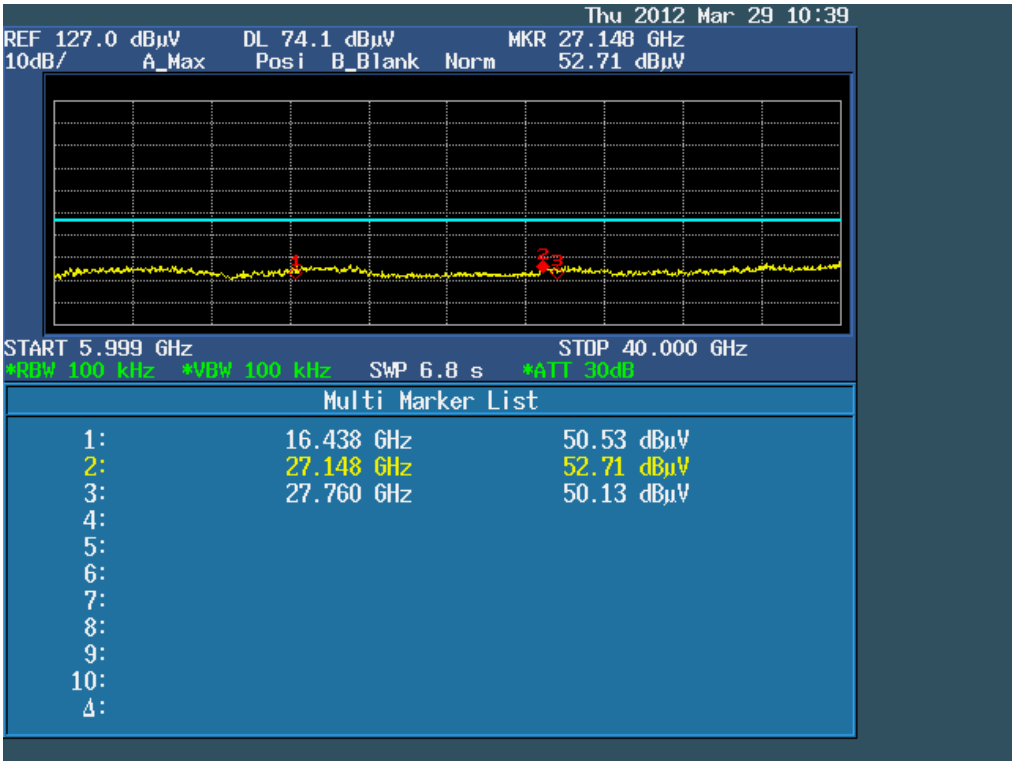


Ant 1+ Ant 2 802.11a (5.725GHz-5.850GHz)

CH149 Data rate 6Mbps



Ant 1+ Ant 2 802.11a (5.725GHz-5.850GHz)
CH157 Data rate 6Mbps



Ant 1+ Ant 2 802.11a (5.725GHz-5.850GHz)

CH161 Data rate 6Mbps