

FCC Test Report

Part 15 subpart C

Client Information:

Applicant : YI MEI(SHENZHEN)LIMITED
Applicant add.: Room 905, West Block, Qiushi Building, Zhuzilin, Shennan Road,
Futian District, Shenzhen City, Guangdong Province, China 518040

EUT Information:

EUT Name : Cloud Wifi TV Dongle
Model No. : YM-8XXX
Brand Name : a-Cloud
FCC ID : OJOYM-8XXX

Prepared By:

Asia Institute Technology (Dongguan) Limited
Add. : No.6 Binhe Road, Tianxin Village, Huangjiang,
Dongguan, Guangdong, China.
Date of Receipt: Jun. 25, 2012 Date of Test: Jun. 26~Jul. 18, 2012
Date of Issue: Jul. 18, 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.

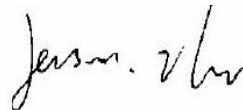
*This test report must not be used by the client to claim product endorsement by any agency of the U.S. government.

Reviewed by:



Seal.Chen

Approved by:



Jason.Zhu

1 Contents

	Page
COVER PAGE	
1 CONTENTS.....	2
2 TEST SUMMARY.....	4
2.1 COMPLIANCE WITH FCC PART 15 SUBPART C	4
2.2 MEASUREMENT UNCERTAINTY	4
3 TEST FACILITY	5
3.1 DEVIATION FROM STANDARD	5
3.2 ABNORMALITIES FROM STANDARD CONDITIONS	5
4 GENERAL INFORMATION	6
4.1 GENERAL DESCRIPTION OF EUT	6
4.2 DESCRIPTION OF TEST CONDITIONS	8
4.3 EUT PERIPHERAL LIST	9
4.4 TEST PERIPHERAL LIST	9
5 EQUIPMENTS LIST FOR ALL TEST ITEMS.....	10
6 TEST RESULT	11
6.1 ANTENNA REQUIREMENT	11
6.1.1 Standard requirement.....	11
6.1.2 EUT Antenna	11
6.2 CONDUCTION EMISSIONS MEASUREMENT.....	12
6.2.1 Applied procedures / Limit.....	12
6.2.2 Test procedure	12
6.2.3 Test results	13
6.3 RADIATED EMISSIONS MEASUREMENT.....	15
6.3.1 Applied procedures / Limit.....	15
6.3.2 Test procedure	15
6.3.3 Test Result	16
6.3.4 TEST RESULTS (Restricted Bands Requirements).....	29
6.4 BANDWIDTH TEST	30
6.4.1 Applied procedures / Limit.....	30
6.4.2 Test procedure	30
6.4.3 Deviation from standard	30
6.4.4 Test setup.....	30
6.4.5 Test results	31
6.5 PEAK POWER DENSITY	51
6.5.1 Applied procedures / Limit.....	51
6.5.2 Test procedure	51
6.5.3 Deviation from standard	51
6.5.4 Test results	52

6.6	MAXIMUM PEAK OUTPUT POWER	72
6.6.1	Applied procedures / Limit.....	72
6.6.2	Test procedure	72
6.6.3	Deviation from standard	72
6.6.4	Test setup.....	72
6.6.5	Test results	73
6.7	BAND EDGE.....	93
6.7.1	Applied procedures / Limit.....	93
6.7.2	Test procedure	93
6.7.3	Deviation from standard	93
6.7.4	Test setup.....	93
6.7.5	Test results	94
6.8	CONDUCTED SPURIOUS EMISSIONS	106
6.8.1	Applied procedures / Limit.....	106
6.8.2	Test procedure	106
6.8.3	Deviation from standard	106
6.8.4	Test setup.....	106
6.8.5	Test results	107

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.			

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	$\pm 1.38\text{dB}$
2	Radiated Emission Test	$\pm 3.57\text{dB}$

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

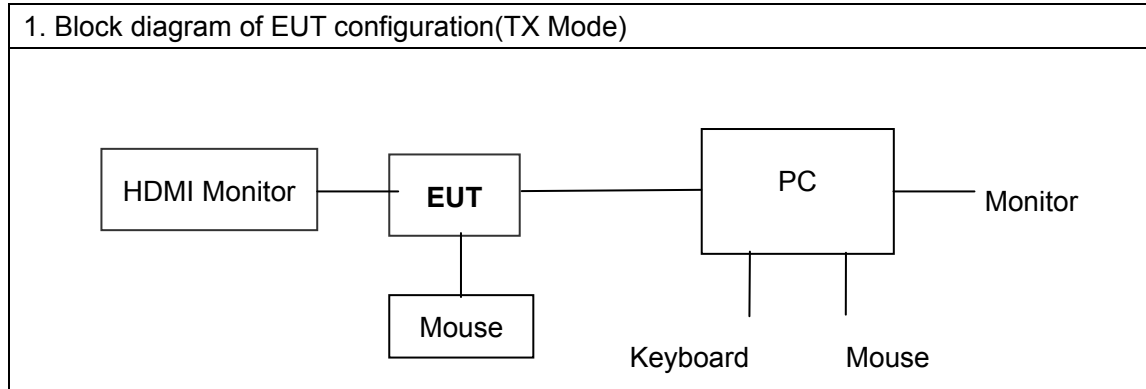
4.1 General Description of EUT

Manufacturer:	Cosmosonic Enterprise Co.Ltd
Manufacturer Address:	NO.158, Jin-Lang South Rd.Dalang Town, DongGuan City,GuangDong, CHINA 523785
EUT Name:	Cloud Wifi TV Dongle
Model No:	YM-8XXX
Operation frequency:	2400 MHz to 2483.5MHz
Modulation Technology:	802.11b: DBPSK, DQPSK, CCK (11, 5.5, 2, 1 Mbps) 802.11g: BPSK, QPSK, 16QAM, 64QAM (54, 48, 36, 24, 18, 12, 9, 6 Mbps) 802.11n(20MHz): BPSK, QPSK, 16QAM, 64QAM (Long GI: 6.5,13, 19.5, 26, 39, 52, 58.5, 65 Mbps) (Short GI:7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2 Mbps) 802.11n(40MHz): BPSK, QPSK, 16QAM, 64QAM (Long GI: 13.5, 27, 40.5, 54, 81,108, 121.5,135 Mbps) (Short GI: 15, 30, 45, 60, 90, 120, 135, 150 Mbps)
Antenna Type:	Internal
Antenna Gain:	max -2.75dBi
Brand Name:	a-Cloud
Serial No:	N/A
Power Supply Range:	DC 5.0V
Power Supply:	DC 5.0V
Power Cord:	N/A
Output power (max) :	802.11b: 15.10dBm 802.11g: 15.75dBm 802.11n(20M): 15.75dBm 802.11n(40M): 14.47dBm
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		

4.2 Description of Test conditions

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



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

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

- (3) Test frequencies:

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

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

- (4) Frequency range of radiated measurements:

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

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

The EUT was tested in a truly continuous mode with a duty cycle above 95%.

802.11b	: 1 Mbps
802.11g	: 6 Mbps
802.11n(20M)	: 7.2 Mbps
802.11n(40M)	: 13.5Mbps

4.3 EUT Peripheral List

No.	Equipment	Manufacturer	Model No.	Serial No.	Power cord	signal cable
1	N/A	N/A	N/A	N/A	N/A	N/A

4.4 Test Peripheral List

No.	Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	Power cord	signal cable
1	Personal computer	H P	CE 、 FCC	DX2310	CNG8250MZ3	1.8m/unshielded /detachable	N/A
2	Keyboard	DELL	CE	SK-8115	CN-ONM432-71616-81M-OLK B	N/A	1.5m/unshielded /undetachable
3	Mouse	Microsoft	CE	X800898	30603	N/A	1.5m/unshielded /undetachable
4	Monitor	DELL	CE	T980KAC DK21SN	TWS20006045	1.8m/unshielded /detachable	1.8m/shielded /detachable
5	HDMI Monitor	SONY	BSMI	KDL-20S4 000	1495334	1.5m/unshielded/d etachable	N/A

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	2012.04.08	2013.04.07
5	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2012.07.15	2013.07.14
6	Broadband Horn Antenna	SCHWARZBECK	BBHA9120A	451	2012.07.15	2013.07.14
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	2012.04.08	2013.04.07
10	LISN	Kyoritsu	KNW-407	8-1789-3	2012.04.08	2013.04.07
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	2012.04.08	2013.04.07

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 max -2.75dbi from 2.4GHz to 2.5GHz.

6.2 Conduction Emissions Measurement

6.2.1 Applied procedures / Limit

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

Note: Decreases with the logarithm of the frequency.

6.2.2 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

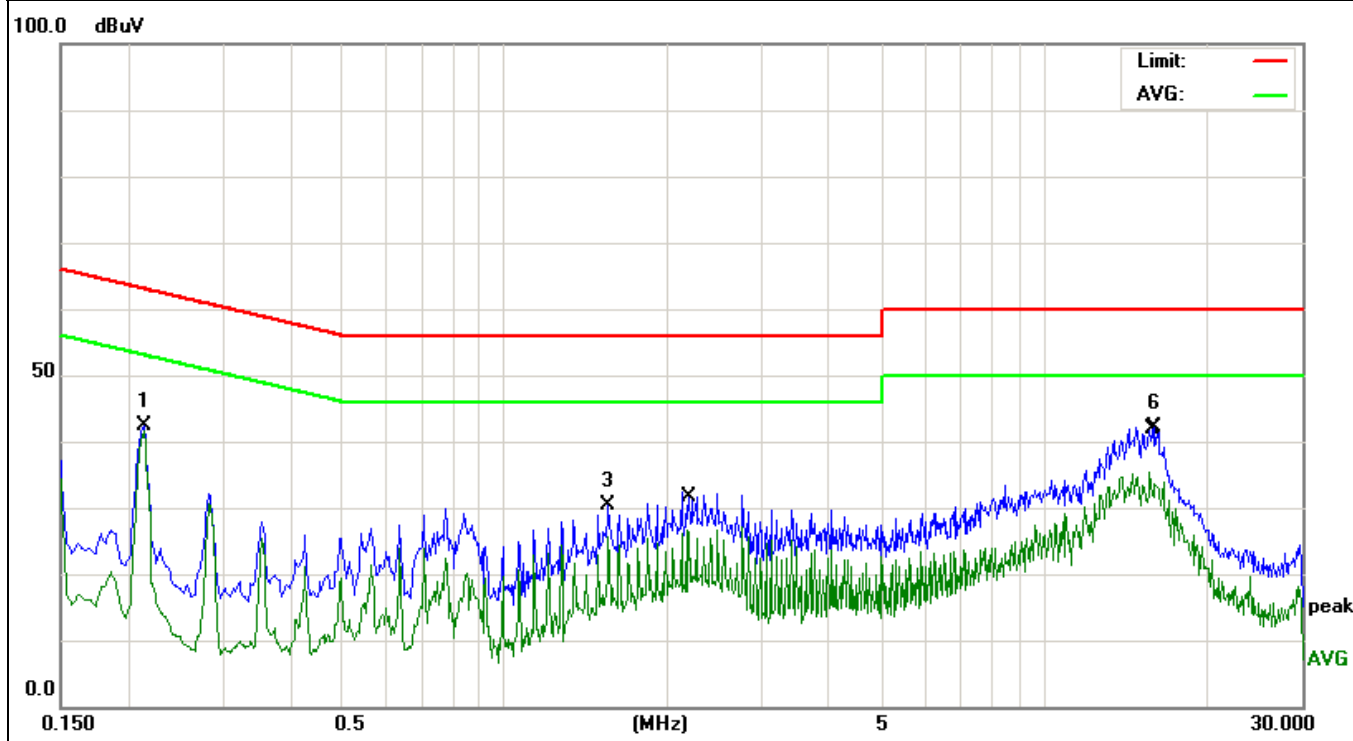
EUT:	Cloud Wifi TV Dongle	Model Name. :	YM-8XXX
Temperature:	22 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2012-07-09
Test Mode:	TX	Phase :	Line
Test Voltage :	DC 5.0V from PC , AC 120V/60Hz for PC		

Frequency (MHz)	Meter Reading (dBμV)	Factor(dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector
0.2140	31.37	11.03	42.40	63.04	-20.64	Quasi-Peak
*0.2140	30.60	11.03	41.63	53.04	-11.41	Average
1.5580	20.25	10.18	30.43	56.00	-25.57	Quasi-Peak
2.1739	16.51	10.17	26.68	46.00	-19.32	Average
16.0059	40.79	1.37	42.16	60.00	-17.84	Quasi-Peak
15.6539	34.08	1.37	35.45	50.00	-14.55	Average

Remark:

1. Factor = Insertion Loss + Cable Loss.

2. '*' means the worst case.



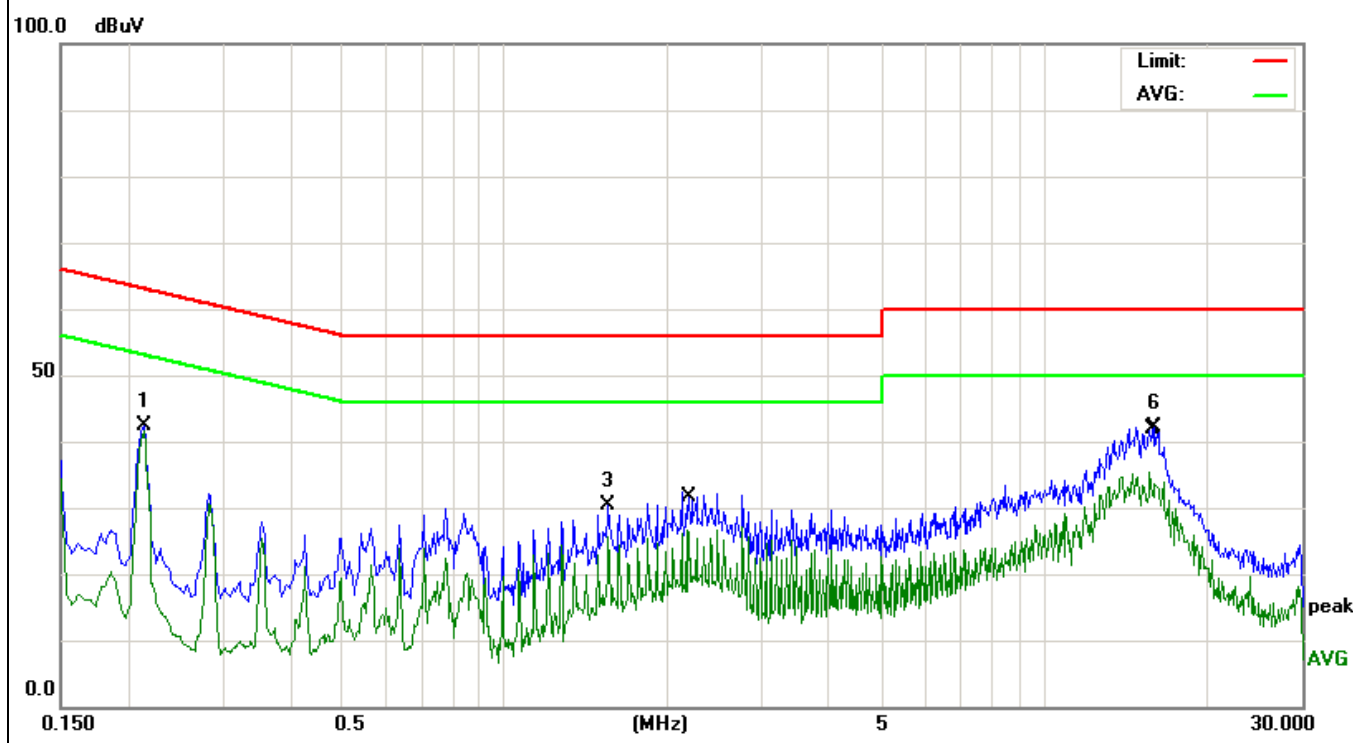
EUT:	Cloud Wifi TV Dongle	Model Name. :	YM-8XXX
Temperature:	22 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2012-07-09
Test Mode:	TX	Phase :	Neutral
Test Voltage :	DC 5.0V from PC , AC 120V/60Hz for PC		

Frequency (MHz)	Meter Reading (dBμV)	Factor(dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector
0.2140	31.37	11.03	42.40	63.04	-20.64	Quasi-Peak
*0.2140	30.60	11.03	41.63	53.04	-11.41	Average
1.5580	20.25	10.18	30.43	56.00	-25.57	Quasi-Peak
2.1739	16.51	10.17	26.68	46.00	-19.32	Average
16.0059	40.79	1.37	42.16	60.00	-17.84	Quasi-Peak
15.6539	34.08	1.37	35.45	50.00	-14.55	Average

Remark:

1. Factor = Insertion Loss + Cable Loss.

2. '*' 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)
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	
0.009-0.49	2400/F(kHz)		300
0.49-1.705	24000/F(kHz)		30
1.705-30	30		30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

6.3.2 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:	Cloud Wifi TV Dongle	Model Name :	YM-8XXX
Temperature:	23 °C	Test Data	2012-07-09
Pressure:	1010 hPa	Relative Humidity:	56%
Test Mode :	TX	Test Voltage :	DC 5.0 V from PC
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
45.3755	41.32	-15.79	25.53	40.00	-14.47	QUASIPeAK
112.1305	45.22	-13.78	31.44	43.50	-12.06	QUASIPeAK
216.0240	44.99	-10.34	34.65	46.00	-11.35	QUASIPeAK
360.4476	46.17	-8.71	37.46	46.00	-8.54	QUASIPeAK
595.1327	38.33	-3.45	34.88	46.00	-11.12	QUASIPeAK
*744.8661	40.32	-1.39	38.93	46.00	-7.07	QUASIPeAK

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
44.5867	44.79	-18.01	26.78	40.00	-13.22	Quasi-Peak
80.3619	50.64	-19.72	30.92	40.00	-9.08	Quasi-Peak
*143.9818	52.80	-13.18	39.62	43.50	-3.88	Quasi-Peak
333.6865	43.34	-9.36	33.98	46.00	-12.02	Quasi-Peak
595.1329	44.22	-3.45	40.77	46.00	-5.23	Quasi-Peak
744.8661	43.32	-1.39	41.93	46.00	-4.07	Quasi-Peak

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

EUT:	Cloud Wifi TV Dongle	Model Name :	YM-8XXX
Temperature:	253 °C	Test Data	2012-07-09
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	802.11b	Test Voltage :	DC 5.0 V from PC
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
2400.00	52.83	-5.70	47.13	74.00	-26.87	PEAK
2400.00	43.56	-5.70	37.86	54.00	-16.14	AVERAGE
4824.00	48.32	5.08	53.40	74.00	-20.60	PEAK
*4824.00	45.16	5.08	50.24	54.00	-3.76	AVERAGE
7236.00	42.64	7.16	49.80	74.00	-24.20	PEAK
7236.00	39.59	7.16	46.75	54.00	-7.25	AVERAGE
9648.00	37.28	10.82	48.10	74.00	-25.90	PEAK
9648.00	33.45	10.82	44.27	54.00	-9.73	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.00	53.46	-5.70	47.76	74.00	-26.24	PEAK
2400.00	42.35	-5.70	36.65	54.00	-17.35	AVERAGE
4824.00	47.87	5.08	52.95	74.00	-21.05	PEAK
*4824.00	44.76	5.08	49.84	54.00	-4.16	AVERAGE
7236.00	43.27	7.16	50.43	74.00	-23.57	PEAK
7236.00	39.56	7.16	46.72	54.00	-7.28	AVERAGE
9648.00	36.82	10.82	47.64	74.00	-26.36	PEAK
9648.00	33.31	10.82	44.13	54.00	-9.87	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
4874.00	46.20	5.13	51.33	74.00	-22.67	PEAK
*4874.00	43.19	5.13	48.32	54.00	-5.68	AVERAGE
7311.00	39.15	7.49	46.64	74.00	-27.36	PEAK
7311.00	36.29	7.49	43.78	54.00	-10.22	AVERAGE
9748.00	34.12	11.30	45.42	74.00	-28.58	PEAK
9748.00	30.17	11.30	41.47	54.00	-12.53	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBUV)	Correct Factor (dB)	Measure Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector Type
4874.00	46.87	5.13	52.00	74.00	-22.00	PEAK
4874.00	44.25	5.13	49.38	54.00	-4.62	AVERAGE
7311.00	39.25	7.49	46.74	74.00	-27.26	PEAK
7311.00	36.71	7.49	44.20	54.00	-9.80	AVERAGE
9748.00	32.12	11.30	43.42	74.00	-30.58	PEAK
9748.00	28.05	11.30	39.35	54.00	-14.65	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 06: 2437 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
2483.50	43.19	-4.98	38.21	74.00	-35.79	PEAK
2483.50	33.95	-4.98	28.97	54.00	-25.03	AVERAGE
4924.00	45.28	5.18	50.46	74.00	-23.54	PEAK
*4924.00	42.18	5.18	47.36	54.00	-6.64	AVERAGE
7386.00	38.12	7.82	45.94	74.00	-28.06	PEAK
7386.00	35.18	7.82	43.00	54.00	-11.00	AVERAGE
9848.00	32.52	11.79	44.31	74.00	-29.69	PEAK
9848.00	28.92	11.79	40.71	54.00	-13.29	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.50	46.38	-4.98	41.40	74.00	-32.60	PEAK
2483.50	34.15	-4.98	29.17	54.00	-24.83	AVERAGE
4924.00	47.35	5.18	52.53	74.00	-21.47	PEAK
*4924.00	44.16	5.18	49.34	54.00	-4.66	AVERAGE
7386.00	38.12	7.82	45.94	74.00	-28.06	PEAK
7386.00	35.58	7.82	43.40	54.00	-10.60	AVERAGE
9848.00	32.17	11.79	43.96	74.00	-30.04	PEAK
9848.00	28.23	11.79	40.02	54.00	-13.98	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:	Cloud Wifi TV Dongle	Model Name :	YM-8XXX
Temperature:	25 °C	Test Data	2012-07-09
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	802.11g	Test Voltage :	DC 5.0 V from PC
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
2400.00	52.66	-5.70	46.96	74.00	-27.04	PEAK
2400.00	41.56	-5.70	35.86	54.00	-18.14	AVERAGE
4824.00	45.21	5.08	50.29	74.00	-23.71	PEAK
*4824.00	42.98	5.08	48.06	54.00	-5.94	AVERAGE
7236.00	38.56	7.16	45.72	74.00	-28.28	PEAK
7236.00	35.87	7.16	43.03	54.00	-10.97	AVERAGE
9648.00	32.33	10.82	43.15	74.00	-30.85	PEAK
9648.00	29.95	10.82	40.77	54.00	-13.23	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.00	53.98	-5.70	48.28	74.00	-25.72	PEAK
2400.00	41.68	-5.70	35.98	54.00	-18.02	AVERAGE
4824.00	46.02	5.08	51.10	74.00	-22.90	PEAK
*4824.00	42.99	5.08	48.07	54.00	-5.93	AVERAGE
7236.00	39.92	7.16	47.08	74.00	-26.92	PEAK
7236.00	36.88	7.16	44.04	54.00	-9.96	AVERAGE
9648.00	31.78	10.82	42.60	74.00	-31.40	PEAK
9648.00	28.35	10.82	39.17	54.00	-14.83	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
4874.00	47.01	5.13	52.14	74.00	-21.86	PEAK
*4874.00	42.87	5.13	48.00	54.00	-6.00	AVERAGE
7311.00	38.51	7.49	46.00	74.00	-28.00	PEAK
7311.00	35.48	7.49	42.97	54.00	-11.03	AVERAGE
9748.00	32.12	11.30	43.42	74.00	-30.58	PEAK
9748.00	29.17	11.30	40.47	54.00	-13.53	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
4874.00	47.23	5.13	52.36	74.00	-21.64	PEAK
*4874.00	43.48	5.13	48.61	54.00	-5.39	AVERAGE
7311.00	39.05	7.49	46.54	74.00	-27.46	PEAK
7311.00	36.11	7.49	43.60	54.00	-10.40	AVERAGE
9748.00	33.12	11.30	44.42	74.00	-29.58	PEAK
9748.00	30.14	11.30	41.44	54.00	-12.56	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 06: 2437 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
2483.50	45.36	-4.98	40.38	74.00	-33.62	PEAK
2483.50	34.98	-4.98	30.00	54.00	-24.00	AVERAGE
4924.00	46.23	5.18	51.41	74.00	-22.59	PEAK
*4924.00	43.03	5.18	48.21	54.00	-5.79	AVERAGE
7386.00	38.17	7.82	45.99	74.00	-28.01	PEAK
7386.00	34.56	7.82	42.38	54.00	-11.62	AVERAGE
9848.00	31.24	11.79	43.03	74.00	-30.97	PEAK
9848.00	28.67	11.79	40.46	54.00	-13.54	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBUV)	Correct Factor (dB)	Measure Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector Type
2483.50	47.52	-4.98	42.54	74.00	-31.46	PEAK
2483.50	35.04	-4.98	30.06	54.00	-23.94	AVERAGE
4924.00	47.85	5.18	53.03	74.00	-20.97	PEAK
*4924.00	44.70	5.18	49.88	54.00	-4.12	AVERAGE
7386.00	39.15	7.82	46.97	74.00	-27.03	PEAK
7386.00	35.96	7.82	43.78	54.00	-10.22	AVERAGE
9848.00	32.54	11.79	44.33	74.00	-29.67	PEAK
9848.00	29.28	11.79	41.07	54.00	-12.93	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:	Cloud Wifi TV Dongle	Model Name :	YM-8XXX
Temperature:	25 °C	Test Data	2012-07-09
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	802.11n(20MHz)	Test Voltage :	DC 5.0 V from PC
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
2400.00	51.97	-5.70	46.27	74.00	-27.73	PEAK
2400.00	40.32	-5.70	34.62	54.00	-19.38	AVERAGE
4824.00	47.02	5.08	52.10	74.00	-21.90	PEAK
*4824.00	43.11	5.08	48.19	54.00	-5.81	AVERAGE
7236.00	39.05	7.16	46.21	74.00	-27.79	PEAK
7236.00	36.91	7.16	44.07	54.00	-9.93	AVERAGE
9648.00	31.51	10.82	42.33	74.00	-31.67	PEAK
9648.00	28.79	10.82	39.61	54.00	-14.39	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.00	51.55	-5.70	45.85	74.00	-28.15	PEAK
2400.00	40.82	-5.70	35.12	54.00	-18.88	AVERAGE
4824.00	44.25	5.08	49.33	74.00	-24.67	PEAK
*4824.00	41.33	5.08	46.41	54.00	-7.59	AVERAGE
7236.00	39.25	7.16	46.41	74.00	-27.59	PEAK
7236.00	36.43	7.16	43.59	54.00	-10.41	AVERAGE
9648.00	33.21	10.82	44.03	74.00	-29.97	PEAK
9648.00	30.02	10.82	40.84	54.00	-13.16	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
4874.00	47.23	5.13	52.36	74.00	-21.64	PEAK
*4874.00	43.48	5.13	48.61	54.00	-5.39	AVERAGE
7311.00	39.05	7.49	46.54	74.00	-27.46	PEAK
7311.00	36.11	7.49	43.60	54.00	-10.40	AVERAGE
9748.00	33.12	11.30	44.42	74.00	-29.58	PEAK
9748.00	30.14	11.30	41.44	54.00	-12.56	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
4874.00	46.12	5.13	51.25	74.00	-22.75	PEAK
*4874.00	43.17	5.13	48.30	54.00	-5.70	AVERAGE
7311.00	38.51	7.49	46.00	74.00	-28.00	PEAK
7311.00	35.49	7.49	42.98	54.00	-11.02	AVERAGE
9748.00	32.01	11.30	43.31	74.00	-30.69	PEAK
9748.00	29.57	11.30	40.87	54.00	-13.13	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 06: 2437 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
2483.50	47.23	-4.98	42.25	74.00	-31.75	PEAK
2483.50	36.14	-4.98	31.16	54.00	-22.84	AVERAGE
4924.00	47.23	5.18	52.41	74.00	-21.59	PEAK
*4924.00	43.41	5.18	48.59	54.00	-5.41	AVERAGE
7386.00	38.15	7.82	45.97	74.00	-28.03	PEAK
7386.00	35.36	7.82	43.18	54.00	-10.82	AVERAGE
9848.00	32.54	11.79	44.33	74.00	-29.67	PEAK
9848.00	29.78	11.79	41.57	54.00	-12.43	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2483.50	49.11	-4.98	44.13	74.00	-29.87	PEAK
2483.50	36.20	-4.98	31.22	54.00	-22.78	AVERAGE
4924.00	48.45	5.18	53.63	74.00	-20.37	PEAK
*4924.00	45.24	5.18	50.42	54.00	-3.58	AVERAGE
7386.00	39.12	7.82	46.94	74.00	-27.06	PEAK
7386.00	36.47	7.82	44.29	54.00	-9.71	AVERAGE
9848.00	31.20	11.79	42.99	74.00	-31.01	PEAK
9848.00	28.35	11.79	40.14	54.00	-13.86	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:	Cloud Wifi TV Dongle	Model Name :	YM-8XXX
Temperature:	25 °C	Test Data	2012-07-09
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	802.11n(40MHz)	Test Voltage :	DC 5.0 V from PC
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
2400.00	50.15	-5.70	44.45	74.00	-29.55	PEAK
2400.00	38.74	-5.70	33.04	54.00	-20.96	AVERAGE
4844.00	45.03	5.11	50.14	74.00	-23.86	PEAK
*4844.00	41.95	5.11	47.06	54.00	-6.94	AVERAGE
7266.00	38.62	7.29	45.91	74.00	-28.09	PEAK
7266.00	36.49	7.29	43.78	54.00	-10.22	AVERAGE
9688.00	33.21	11.02	44.23	74.00	-29.77	PEAK
9688.00	30.53	11.02	41.55	54.00	-12.45	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2400.00	50.96	-5.70	45.26	74.00	-28.74	PEAK
2400.00	39.02	-5.70	33.32	54.00	-20.68	AVERAGE
4844.00	44.05	5.11	49.16	74.00	-24.84	PEAK
*4844.00	41.59	5.11	46.70	54.00	-7.30	AVERAGE
7266.00	39.98	7.29	47.27	74.00	-26.73	PEAK
7266.00	37.12	7.29	44.41	54.00	-9.59	AVERAGE
9688.00	34.25	11.02	45.27	74.00	-28.73	PEAK
9688.00	31.02	11.02	42.04	54.00	-11.96	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel 03: 2422 MHz

Data rate: 13.5Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
4874.00	45.12	5.13	50.25	74.00	-23.75	PEAK
*4874.00	41.29	5.13	46.42	54.00	-7.58	AVERAGE
7311.00	38.24	7.49	45.73	74.00	-28.27	PEAK
7311.00	35.51	7.49	43.00	54.00	-11.00	AVERAGE
9748.00	31.21	11.30	42.51	74.00	-31.49	PEAK
9748.00	28.12	11.30	39.42	54.00	-14.58	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
4874.00	46.12	5.13	51.25	74.00	-22.75	PEAK
*4874.00	43.17	5.13	48.30	54.00	-5.70	AVERAGE
7311.00	38.54	7.49	46.03	74.00	-27.97	PEAK
7311.00	35.49	7.49	42.98	54.00	-11.02	AVERAGE
9748.00	33.14	11.30	44.44	74.00	-29.56	PEAK
9748.00	30.01	11.30	41.31	54.00	-12.69	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel 06: 2437 MHz

Data rate: 13.5Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBUV)	Correct Factor (dB)	Measure Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector Type
2483.50	48.02	-4.98	43.04	74.00	-30.96	PEAK
2483.50	36.54	-4.98	31.56	54.00	-22.44	AVERAGE
4904.00	46.54	5.16	51.70	74.00	-22.30	PEAK
*4904.00	43.05	5.16	48.21	54.00	-5.79	AVERAGE
7356.00	38.54	7.69	46.23	74.00	-27.77	PEAK
7356.00	35.09	7.69	42.78	54.00	-11.22	AVERAGE
9808.00	32.57	11.60	44.17	74.00	-29.83	PEAK
9808.00	29.35	11.60	40.95	54.00	-13.05	AVERAGE

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBUV)	Correct Factor (dB)	Measure Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector Type
2483.50	48.06	-4.98	43.08	74.00	-30.92	PEAK
2483.50	35.78	-4.98	30.80	54.00	-23.20	AVERAGE
4904.00	48.53	5.16	53.69	74.00	-20.31	PEAK
*4904.00	44.96	5.16	50.12	54.00	-3.88	AVERAGE
7356.00	39.85	7.69	47.54	74.00	-26.46	PEAK
7356.00	37.20	7.69	44.89	54.00	-9.11	AVERAGE
9808.00	31.02	11.60	42.62	74.00	-31.38	PEAK
9808.00	27.05	11.60	38.65	54.00	-15.35	AVERAGE

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel 09: 2452 MHz

Data rate: 13.5Mbps

6.3.4 TEST RESULTS (Restricted Bands Requirements)

EUT:	Cloud Wifi TV Dongle	Model Name :	YM-8XXX
Temperature:	25 °C	Test Data	2012-07-09
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	TX	Test Voltage :	DC 5.0 V from PC
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	H	2390.00	52.02	42.56	-5.79	46.23	36.77	74.00	54.00
	V	2390.00	53.18	41.59	-5.79	47.39	35.80	74.00	54.00
	H	2483.50	43.19	33.95	-4.98	38.21	28.97	74.00	54.00
	V	2483.50	46.38	34.15	-4.98	41.40	29.17	74.00	54.00
802.11g Data rate 6Mbps	H	2390.00	52.05	41.16	-5.79	46.26	35.37	74.00	54.00
	V	2390.00	53.46	41.22	-5.79	47.67	35.43	74.00	54.00
	H	2483.50	45.36	34.98	-4.98	40.38	30.00	74.00	54.00
	V	2483.50	47.52	35.04	-4.98	42.54	30.06	74.00	54.00
802.11n (20MHz) Data rate 7.2Mbps	H	2390.00	51.18	39.00	-5.79	45.39	33.21	74.00	54.00
	V	2390.00	51.09	40.13	-5.79	45.3	34.34	74.00	54.00
	H	2483.50	47.23	36.14	-4.98	42.25	31.16	74.00	54.00
	V	2483.50	49.11	36.20	-4.98	44.13	31.22	74.00	54.00
802.11n (40MHz) Data rate 13.5Mbps	H	2390.00	49.65	38.06	-5.79	43.86	32.27	74.00	54.00
	V	2390.00	50.59	38.26	-5.79	44.80	32.47	74.00	54.00
	H	2483.50	48.02	36.54	-4.98	43.04	31.56	74.00	54.00
	V	2483.50	48.06	35.78	-4.98	43.08	30.80	74.00	54.00

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 $\geq$ RBW, Sweep time = Auto.

6.4.3 Deviation from standard

No deviation.

6.4.4 Test setup



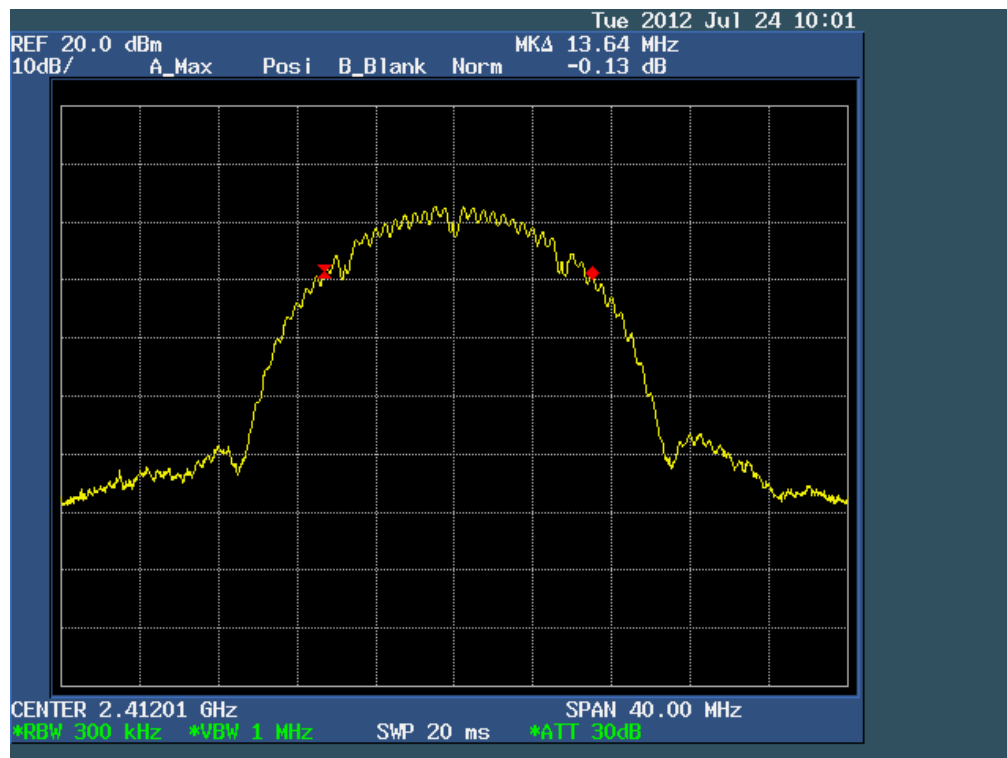
6.4.5 Test results

EUT:	Cloud Wifi TV Dongle	Model Name :	YM-8XXX
Temperature:	26 °C	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power :	DC 5.0V
Test Mode :	TX		

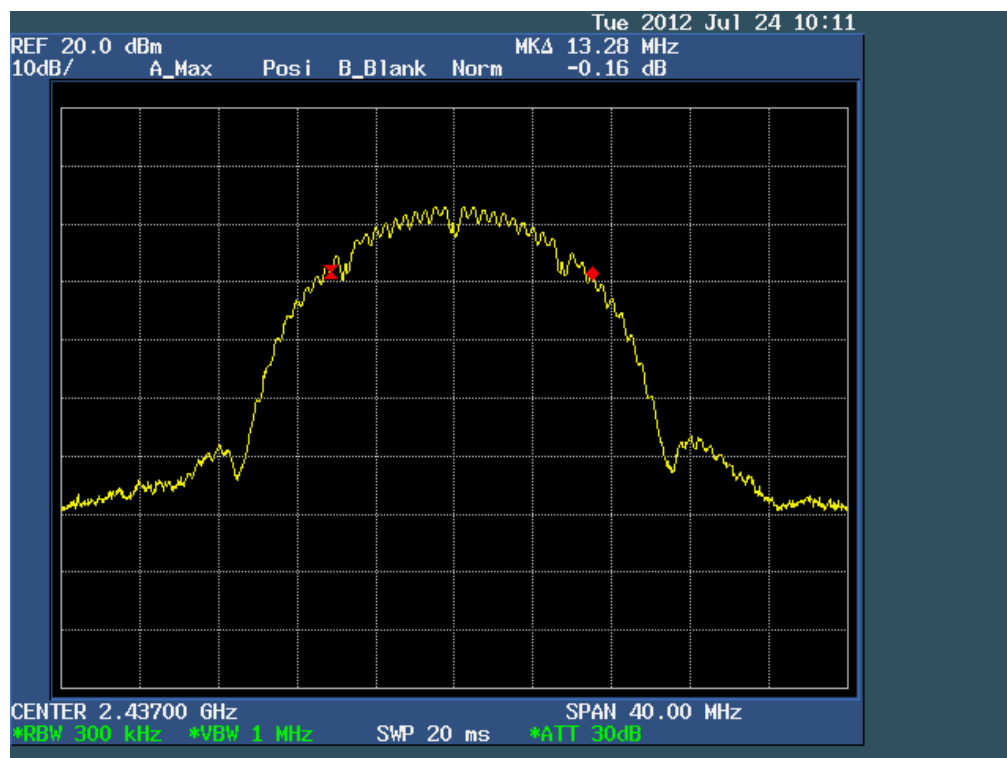
Test Mode	Test Channel	Frequency (MHz)	6 dB Bandwidth (KHz)	Limit (kHz)
802.11b Data rate 1Mbps	CH01	2412	13640	≧ 500
	CH06	2437	13280	≧ 500
	CH11	2462	13280	≧ 500
802.11b Data rate 11Mbps	CH01	2412	12880	≧ 500
	CH06	2437	13240	≧ 500
	CH11	2462	13040	≧ 500
802.11g Data rate 6Mbps	CH01	2412	17400	≧ 500
	CH06	2437	17400	≧ 500
	CH11	2462	17440	≧ 500
802.11g Data rate 54Mbps	CH01	2412	17200	≧ 500
	CH06	2437	17200	≧ 500
	CH11	2462	17200	≧ 500
802.11n(20M) Data rate 6.5Mbps	CH01	2412	18400	≧ 500
	CH06	2437	18320	≧ 500
	CH11	2462	18320	≧ 500
802.11n(20M) Data rate 65Mbps	CH01	2412	18360	≧ 500
	CH06	2437	18320	≧ 500
	CH11	2462	18320	≧ 500
802.11n(20M) Data rate 7.2Mbps	CH01	2412	18480	≧ 500
	CH06	2437	18480	≧ 500
	CH11	2462	18560	≧ 500
802.11n(20M) Data rate 72.2Mbps	CH01	2412	18400	≧ 500
	CH06	2437	18400	≧ 500
	CH11	2462	18360	≧ 500
802.11n(40M) Data rate 13.5Mbps	CH03	2422	37600	≧ 500
	CH06	2437	37520	≧ 500
	CH09	2452	37520	≧ 500
802.11n(40M) Data rate 135Mbps	CH03	2422	37360	≧ 500
	CH06	2437	37520	≧ 500
	CH09	2452	37520	≧ 500

802.11n(40M) Data rate 15Mbps	CH03	2422	37200	$\cong 500$
	CH06	2437	37360	$\cong 500$
	CH09	2452	37360	$\cong 500$
802.11n(40M) Data rate 150Mbps	CH03	2422	37280	$\cong 500$
	CH06	2437	37280	$\cong 500$
	CH09	2452	37360	$\cong 500$

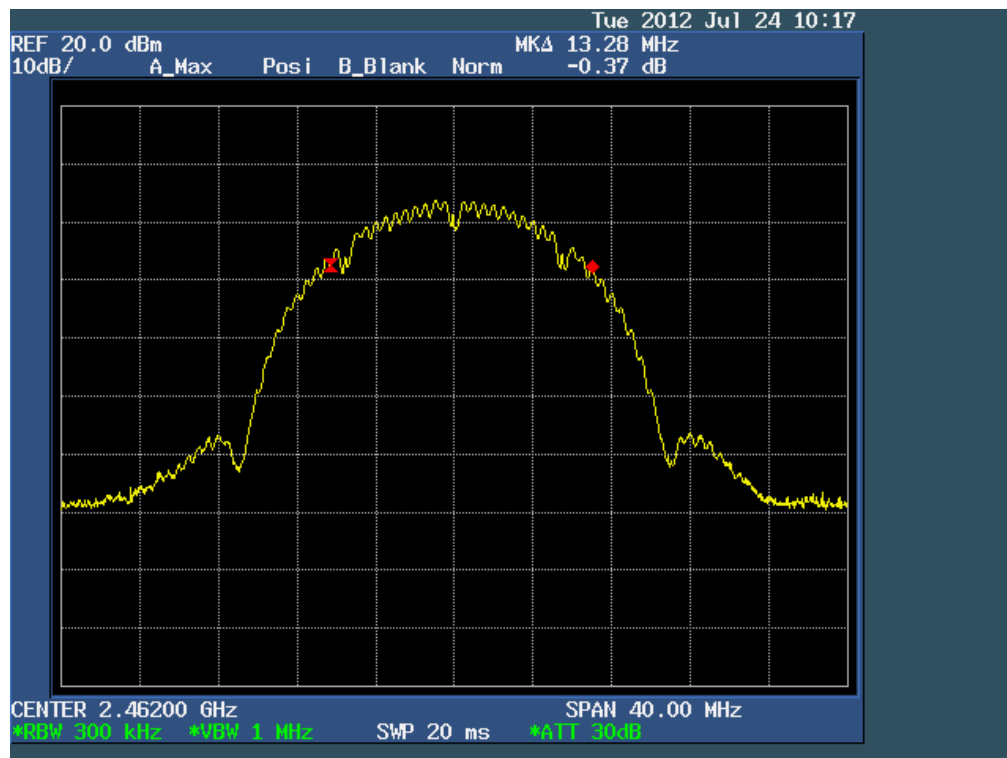
802.11b (1Mbps)
The Lowest Channel 01: 2412MHz



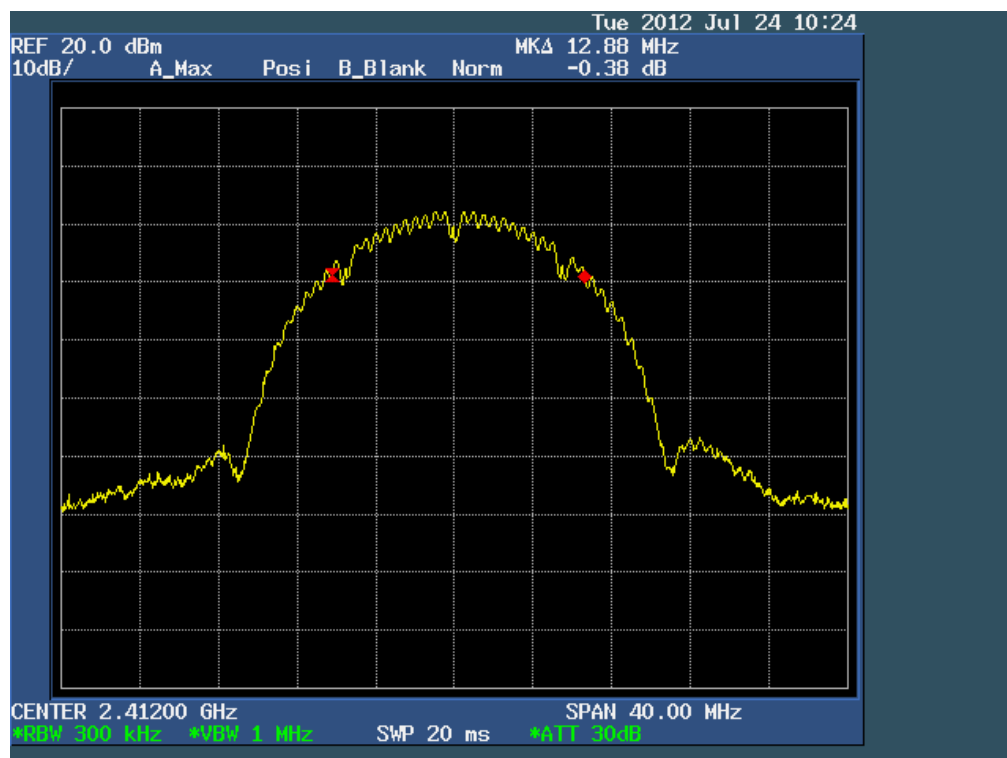
802.11b (1Mbps)
The Middle Channel 06: 2437MHz



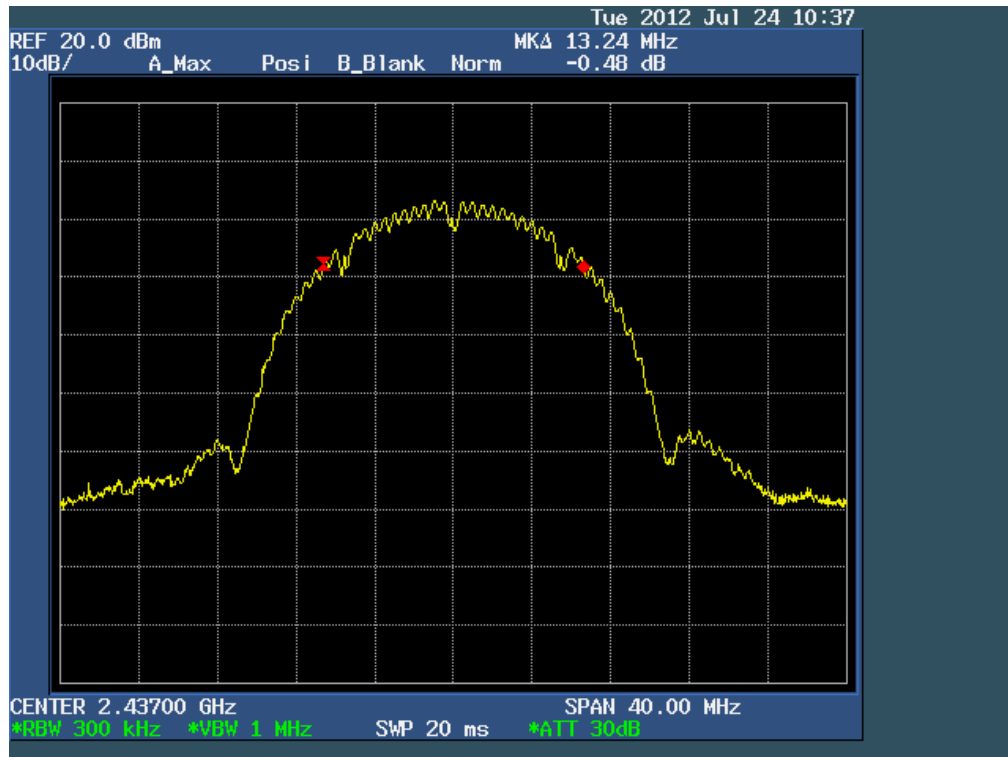
802.11b (1Mbps) The High Channel 11: 2462MHz



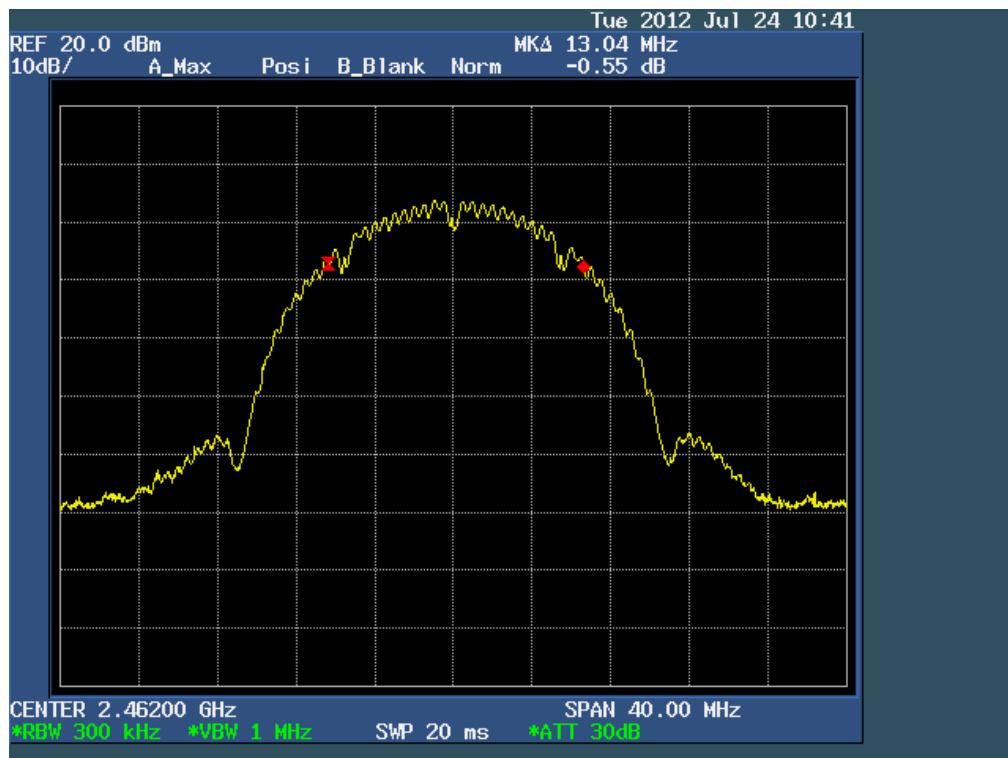
802.11b (11Mbps) The Lowest Channel 01: 2412MHz



802.11b (11Mbps)
The Middle Channel 06: 2437MHz



802.11b (11Mbps)
The High Channel 11: 2462MHz



802.11g (6Mbps)
The Lowest Channel 01: 2412MHz



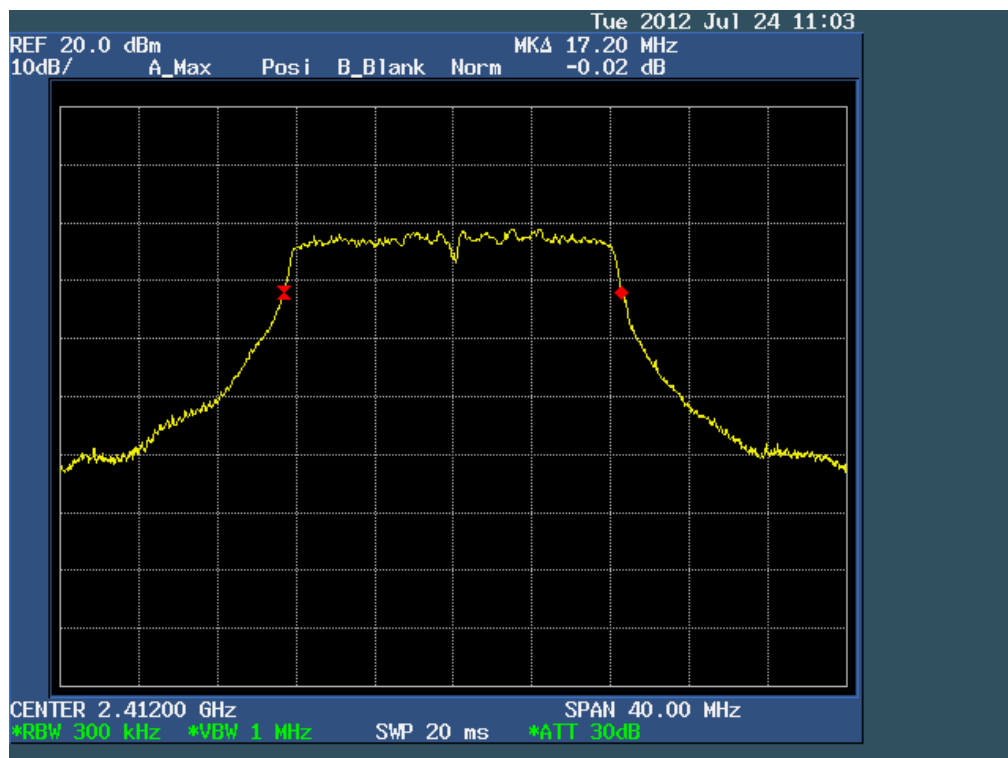
802.11g (6Mbps)
The Middle Channel 06: 2437MHz



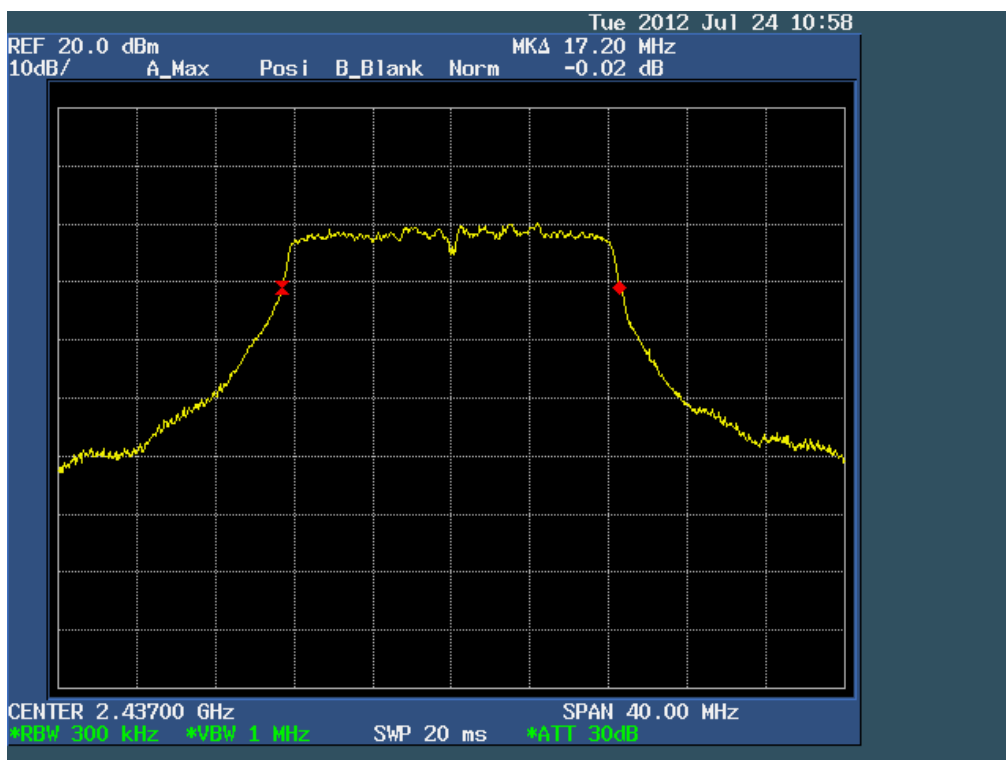
802.11g (6Mbps)
The High Channel 11: 2462MHz



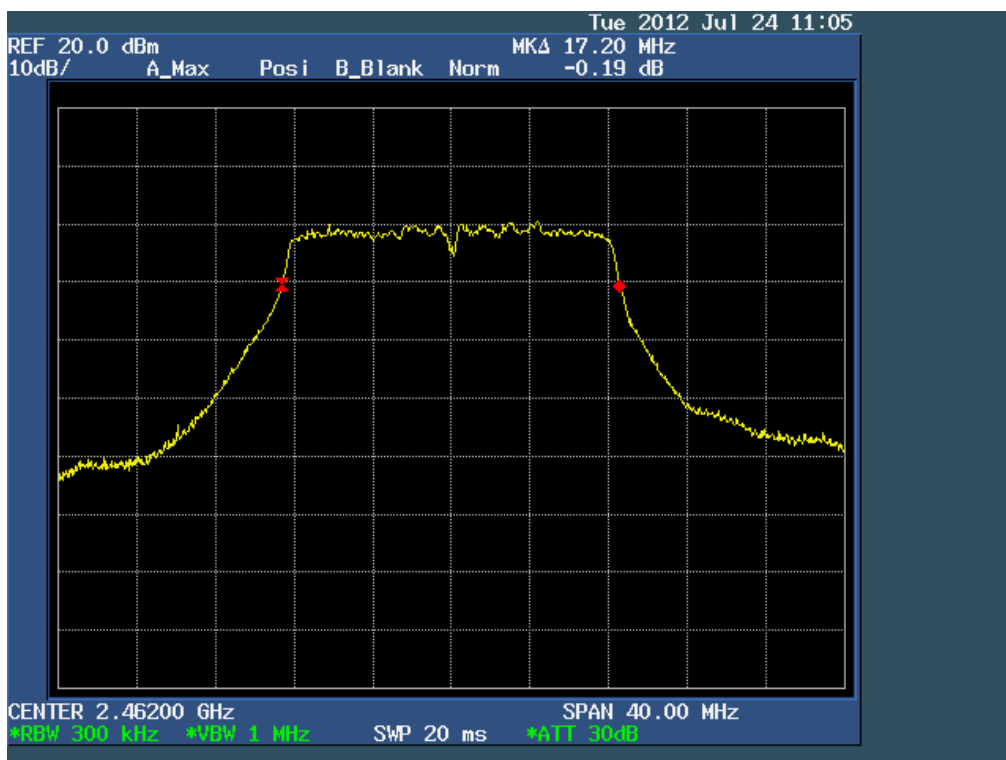
802.11g (54Mbps)
The Lowest Channel 01: 2412MHz



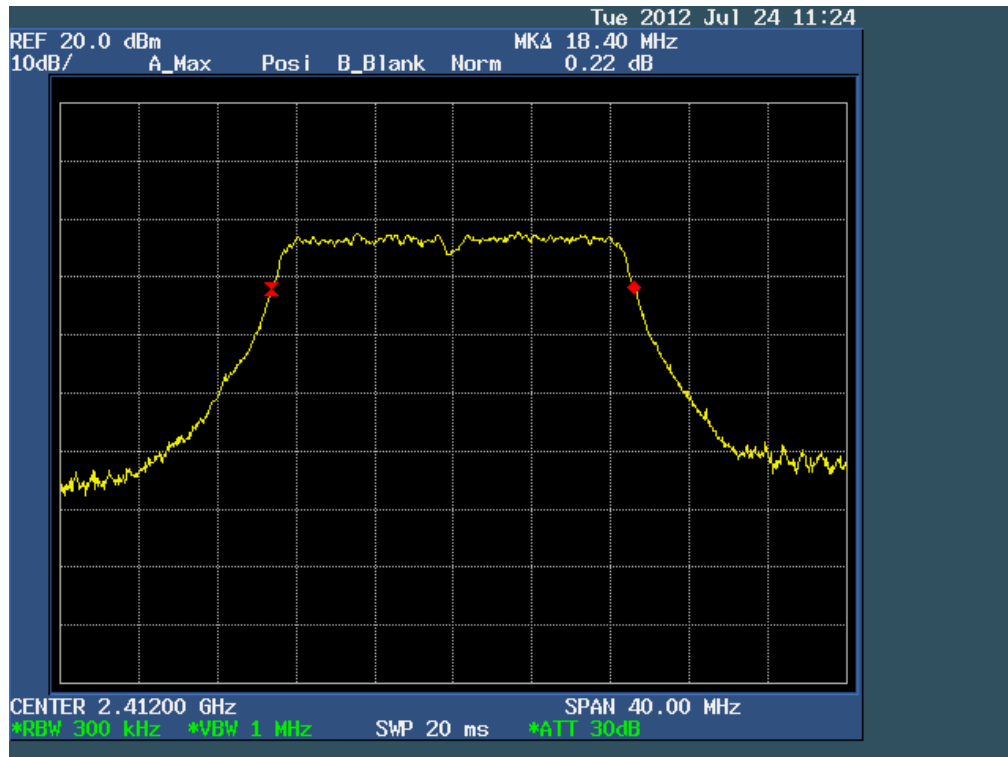
802.11g (54Mbps)
The Middle Channel 06: 2437MHz



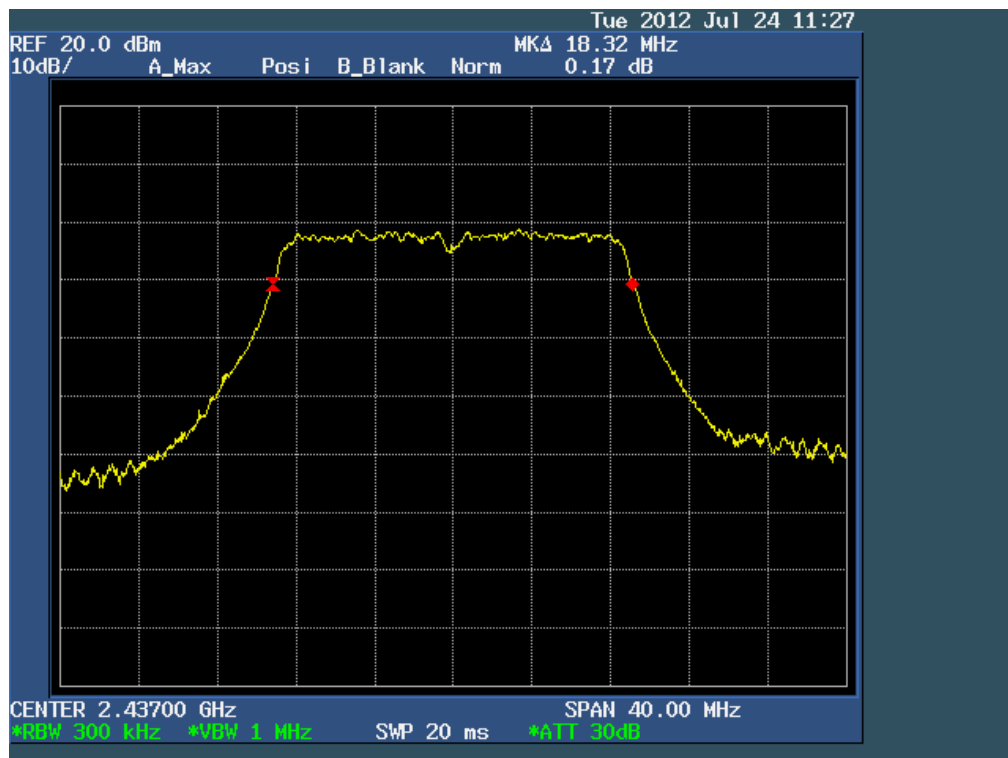
802.11g (54Mbps)
The High Channel 11: 2462MHz



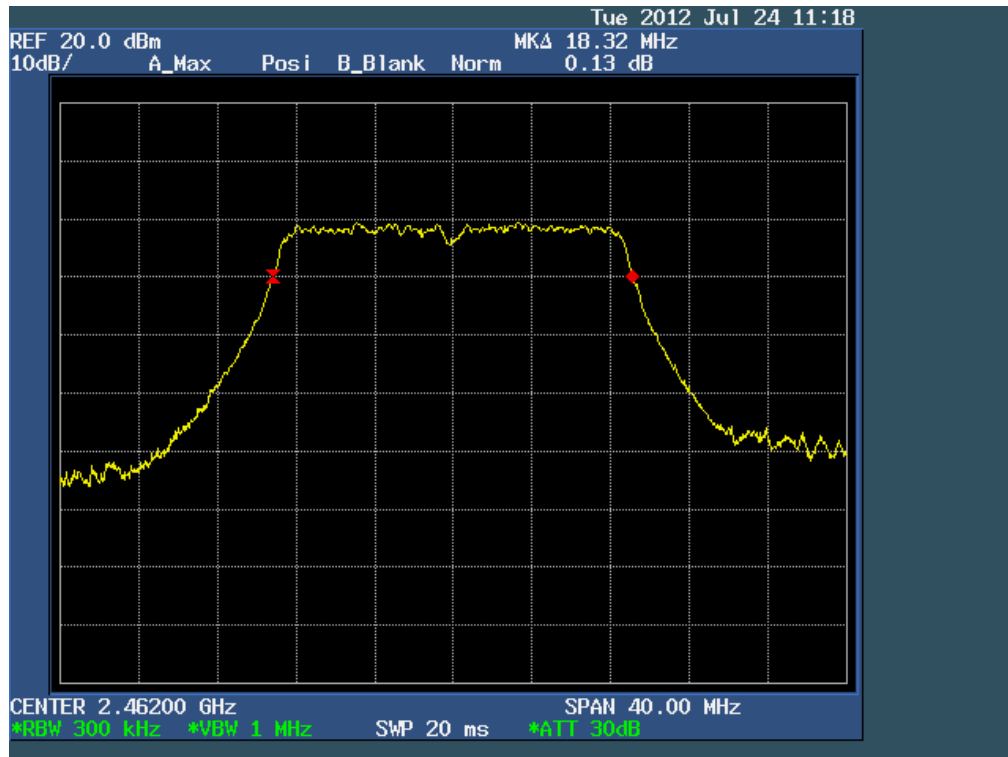
802.11n (20MHz \ 6.5Mbps)
The Lowest Channel 01: 2412MHz



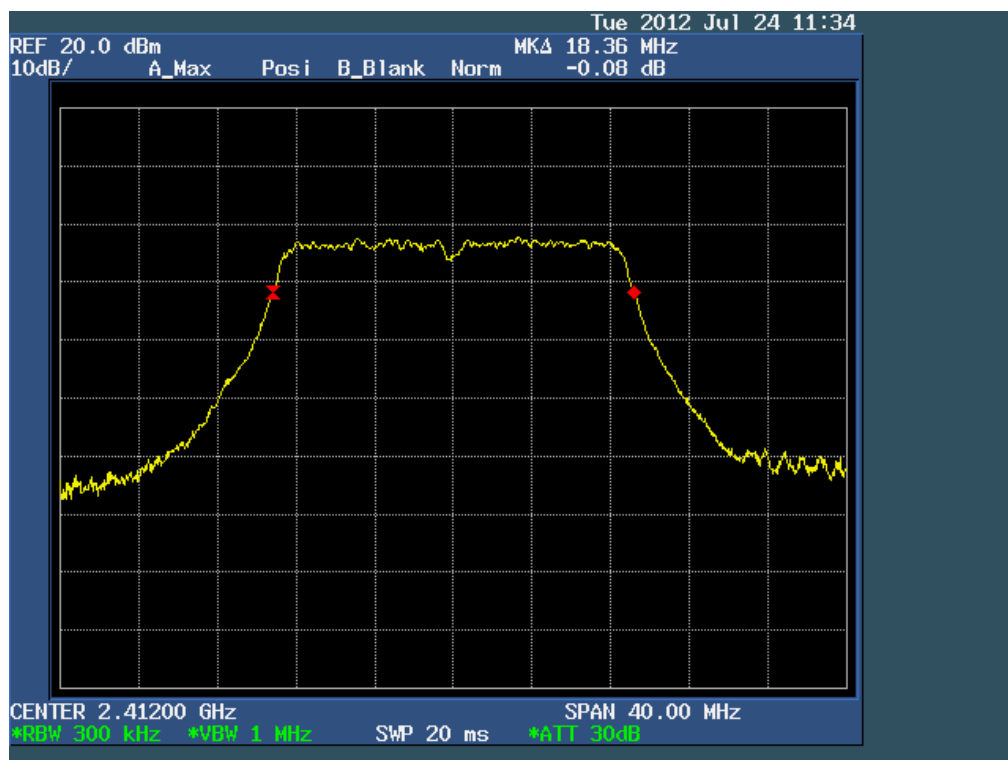
802.11n (20MHz \ 6.5Mbps)
The Middle Channel 06: 2437MHz



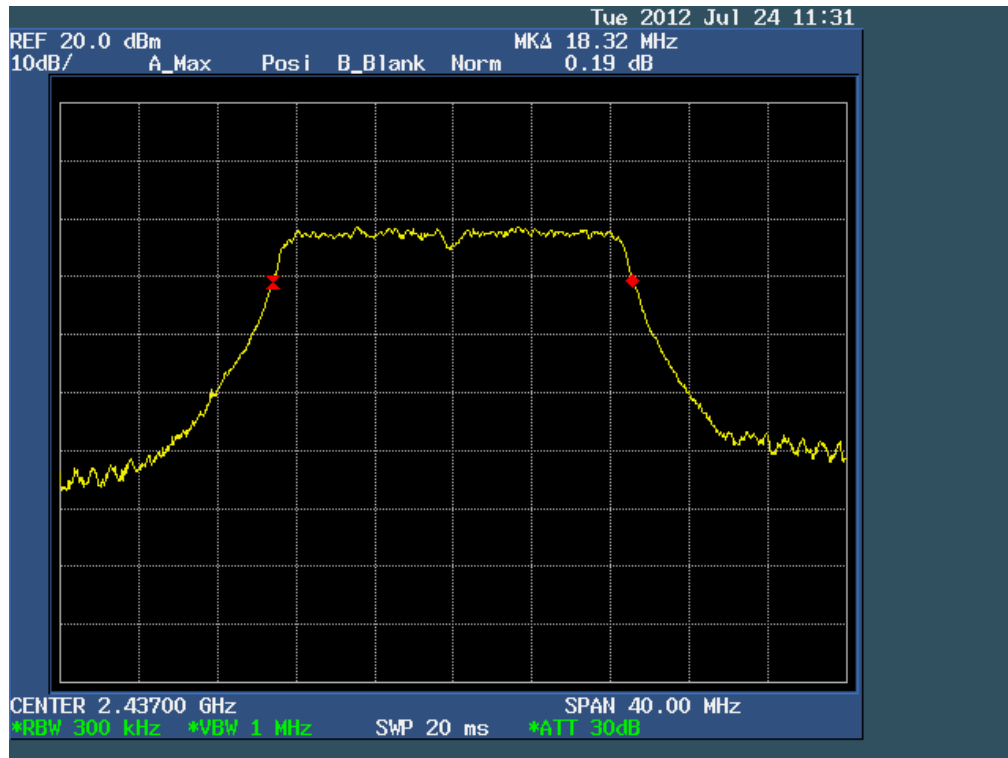
802.11n (20MHz \ 6.5Mbps)
The High Channel 11: 2462MHz



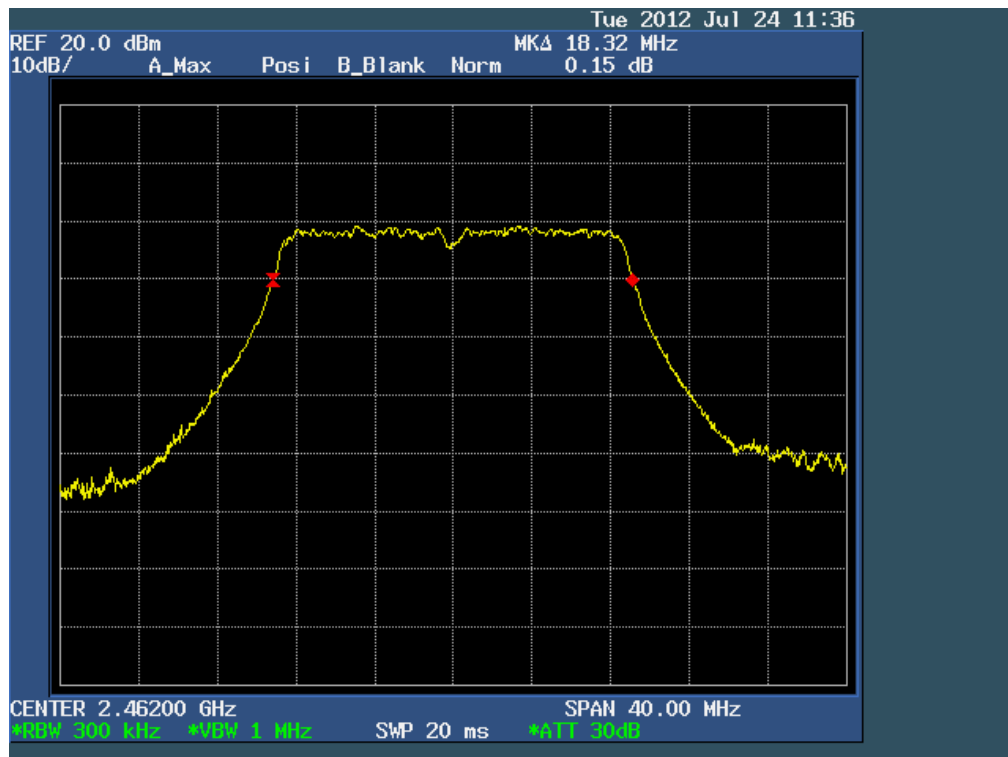
802.11n (20MHz \ 65Mbps)
The Lowest Channel 01: 2412MHz



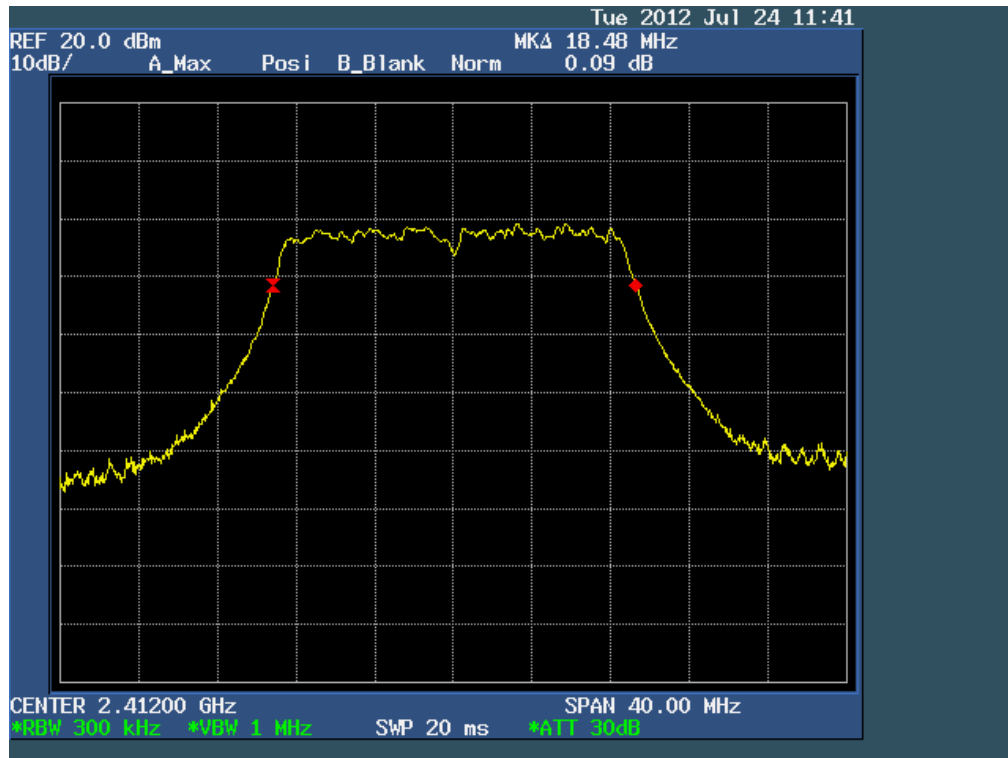
802.11n (20MHz \ 65Mbps)
The Middle Channel 06: 2437MHz



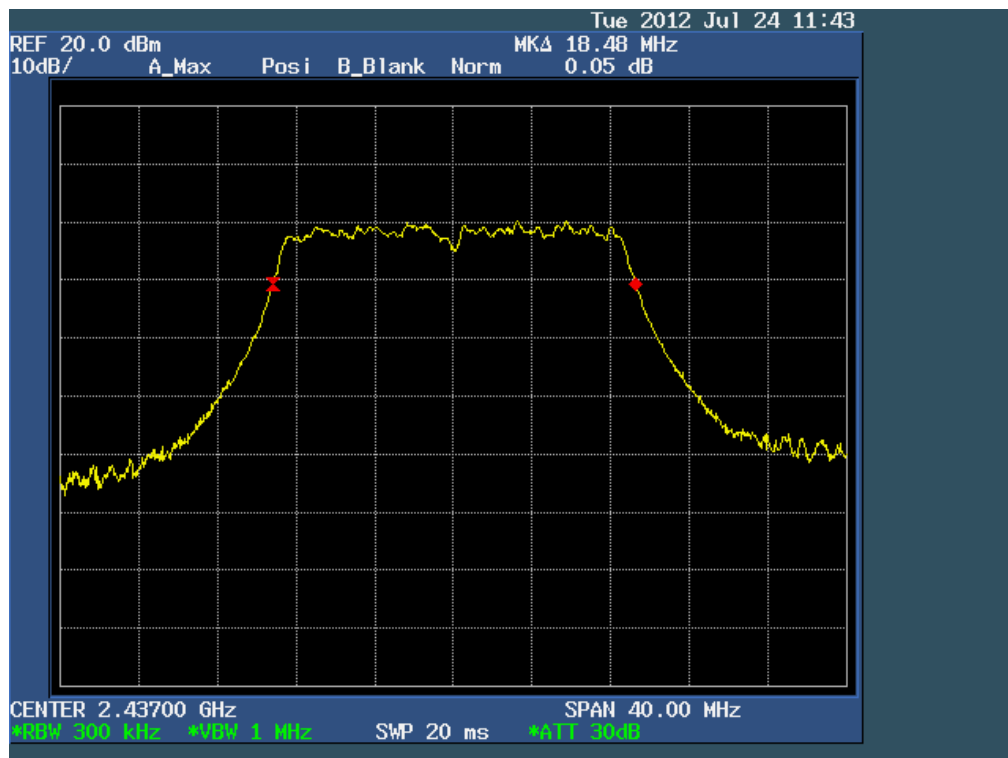
802.11n (20MHz \ 65Mbps)
The High Channel 11: 2462MHz



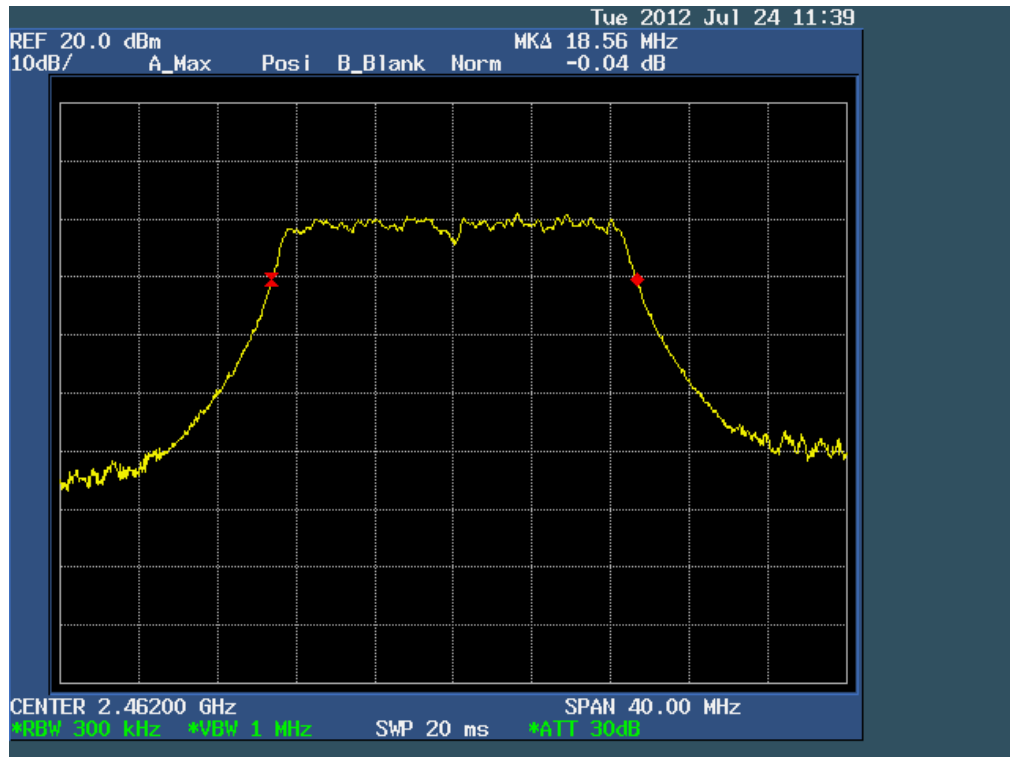
802.11n (20MHz \ 7.2Mbps)
The Lowest Channel 01: 2412MHz



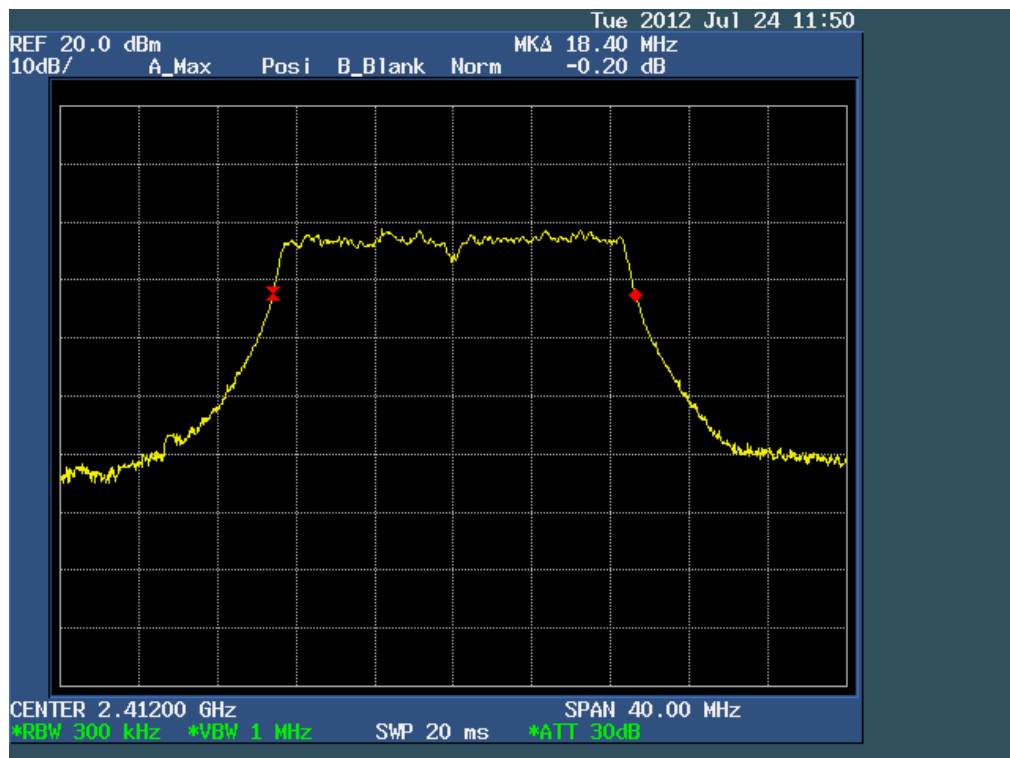
802.11n (20MHz \ 7.2Mbps)
The Middle Channel 06: 2437MHz



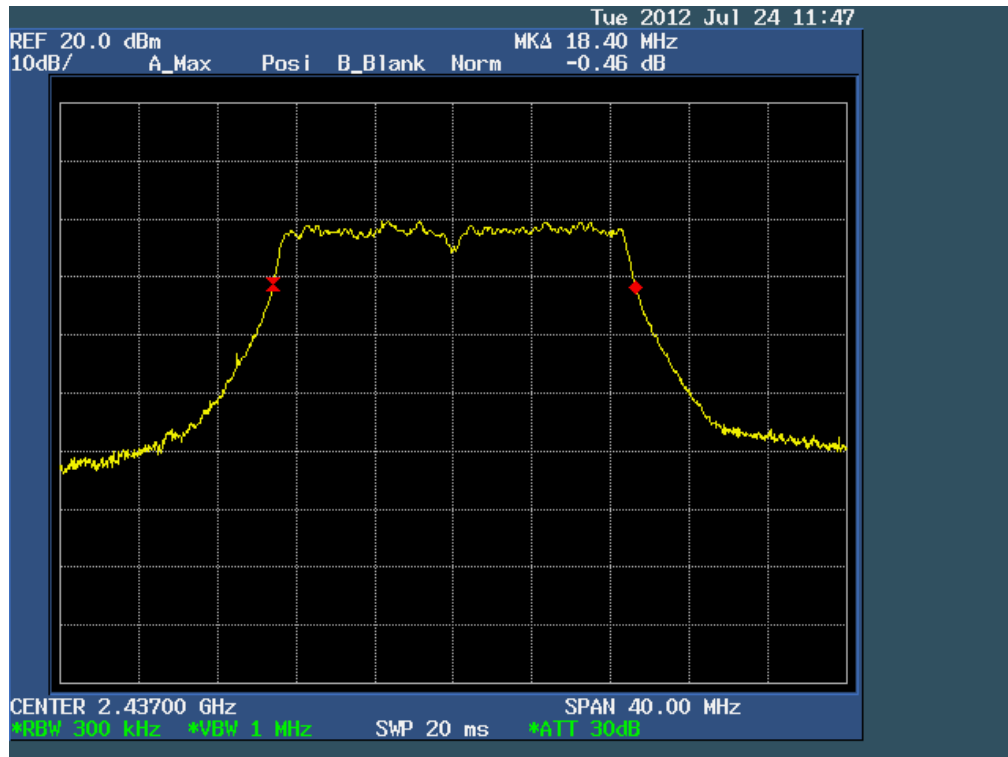
802.11n (20MHz \ 7.2Mbps)
The High Channel 11: 2462MHz



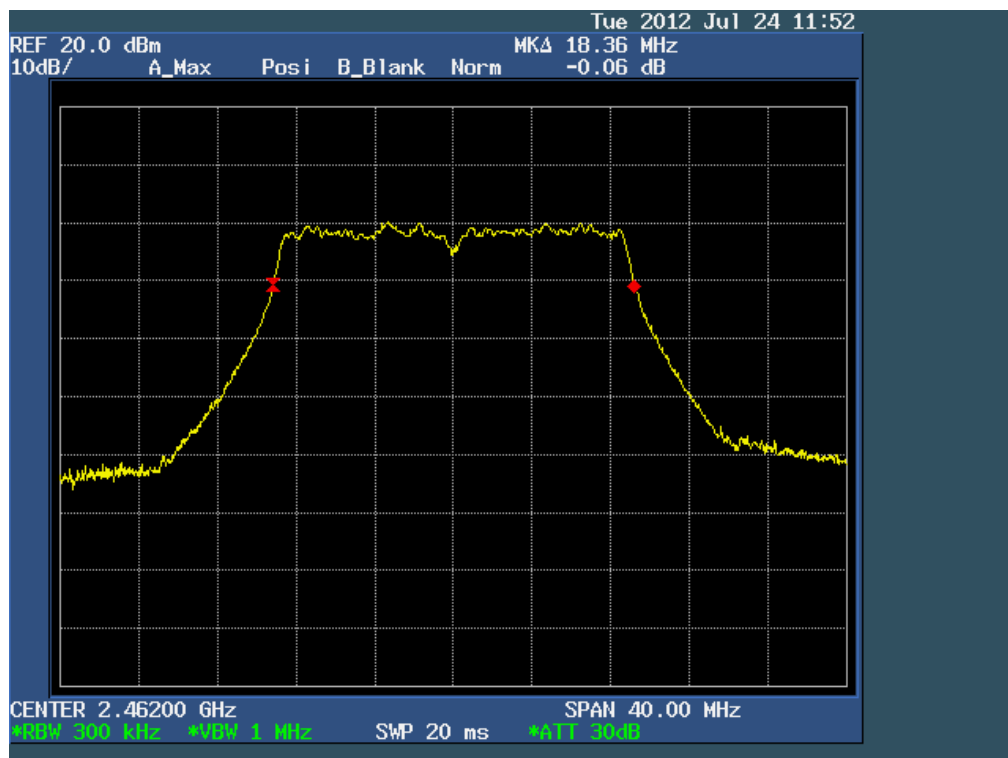
802.11n (20MHz \ 72.2Mbps)
The Lowest Channel 01: 2412MHz



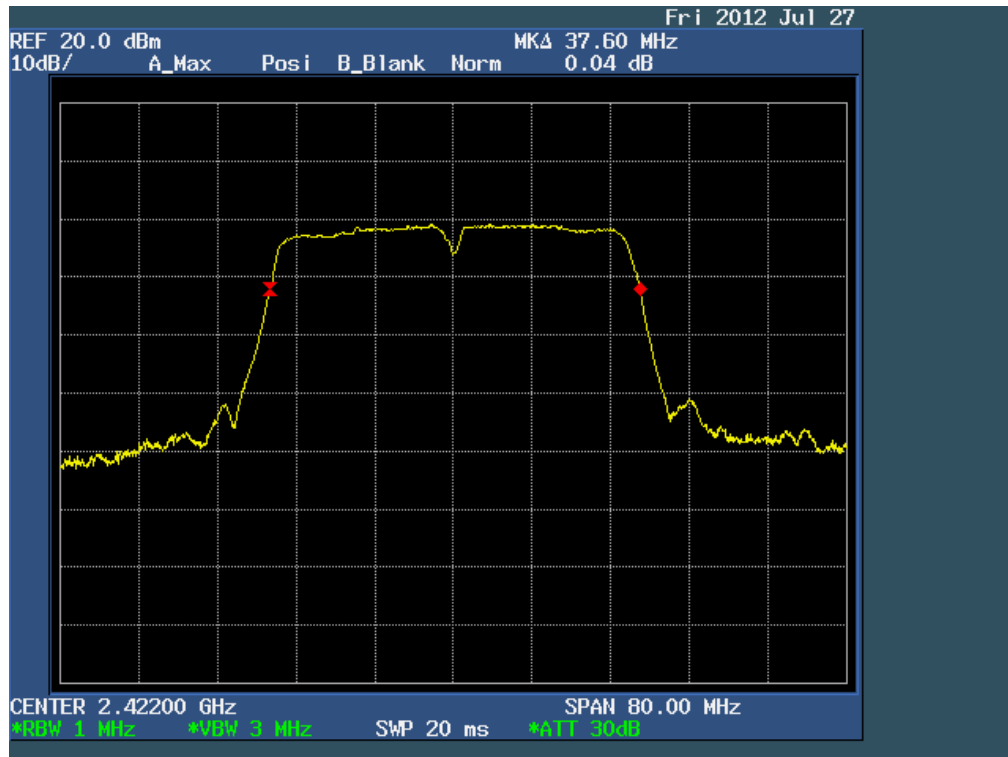
802.11n (20MHz \ 72.2Mbps)
The Middle Channel 06: 2437MHz



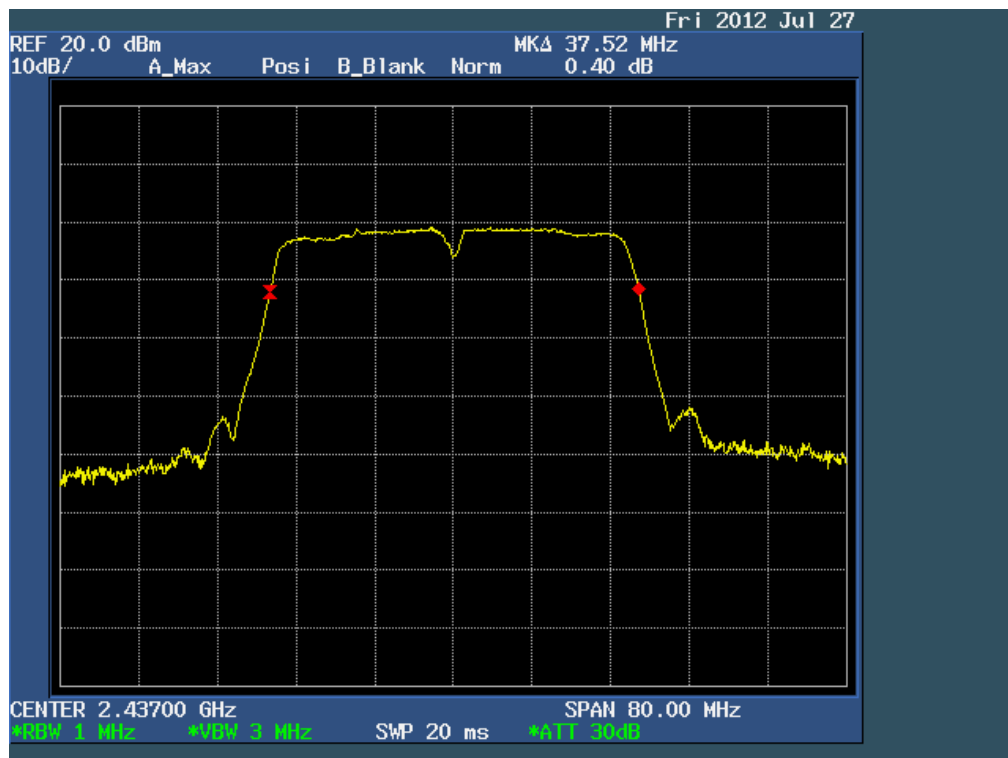
802.11n (20MHz \ 72.2Mbps)
The High Channel 11: 2462MHz



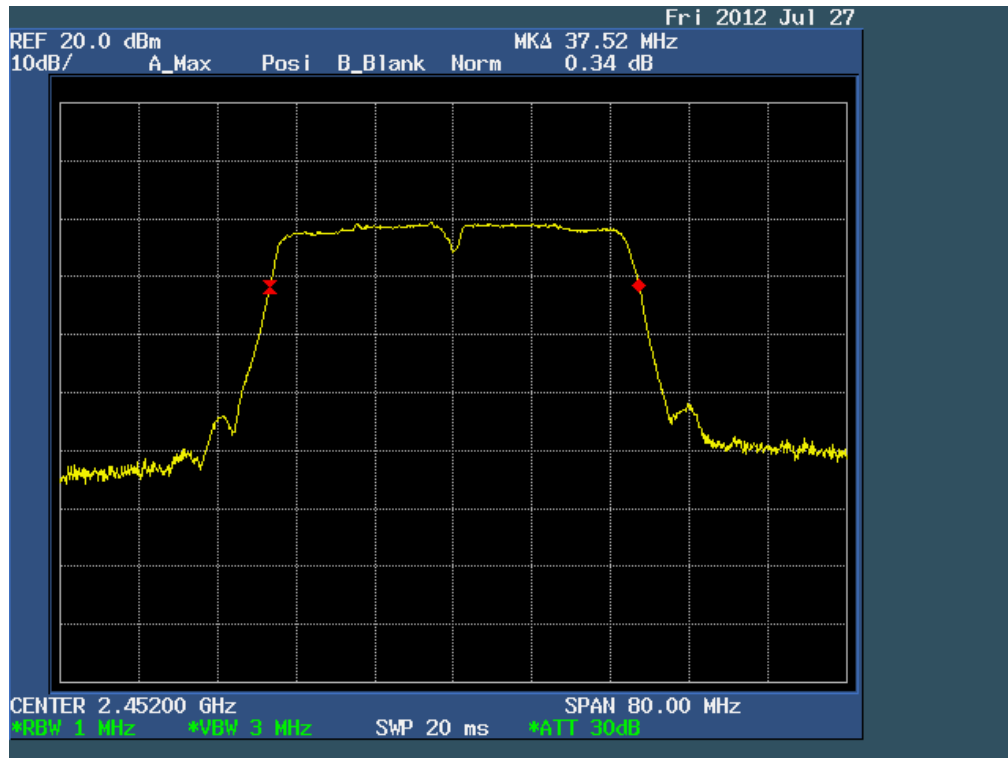
802.11n (40MHz \ 13.5Mbps)
The Lowest Channel 03: 2422MHz



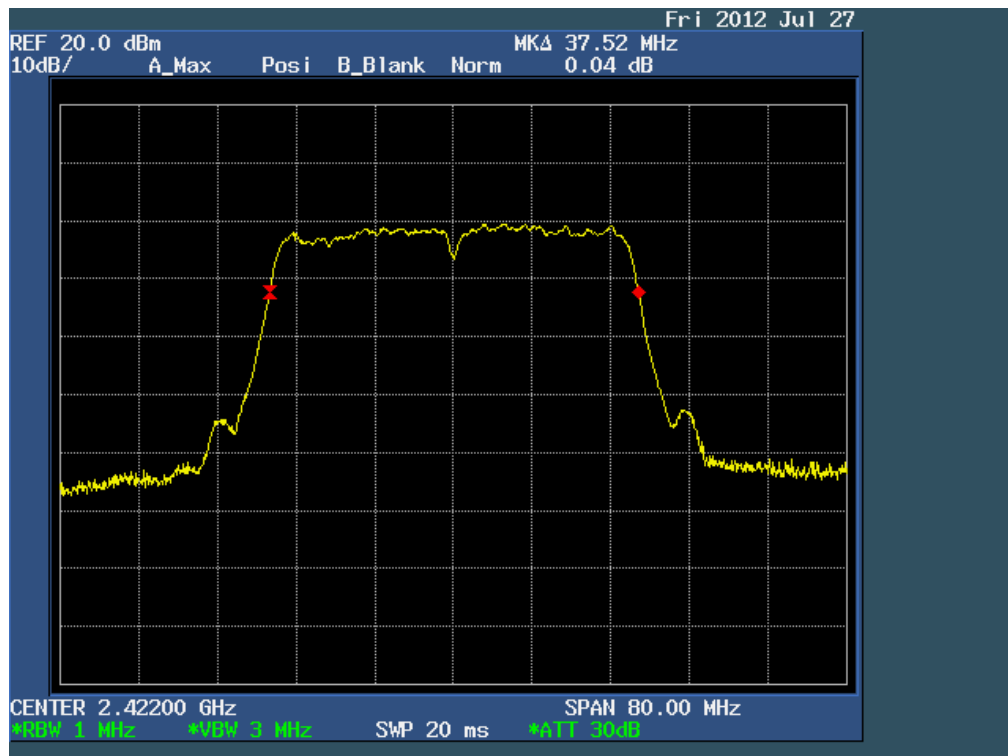
802.11n (40MHz \ 13.5Mbps)
The Middle Channel 06: 2437MHz



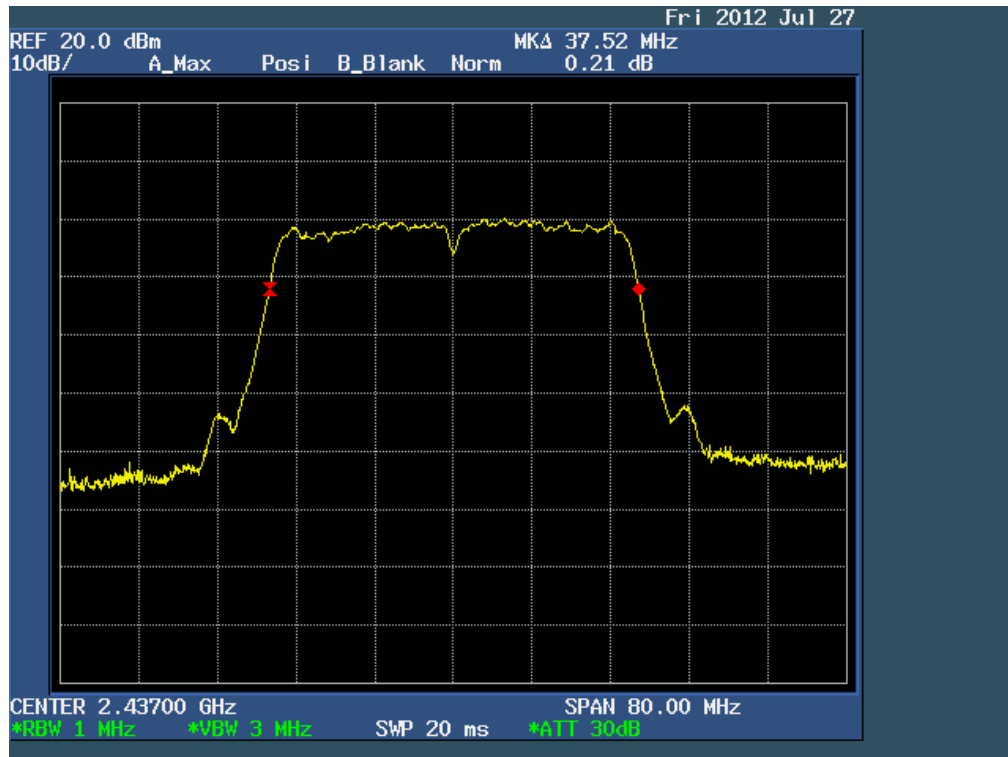
802.11n (40MHz \ 13.5Mbps)
The High Channel 09: 2452MHz



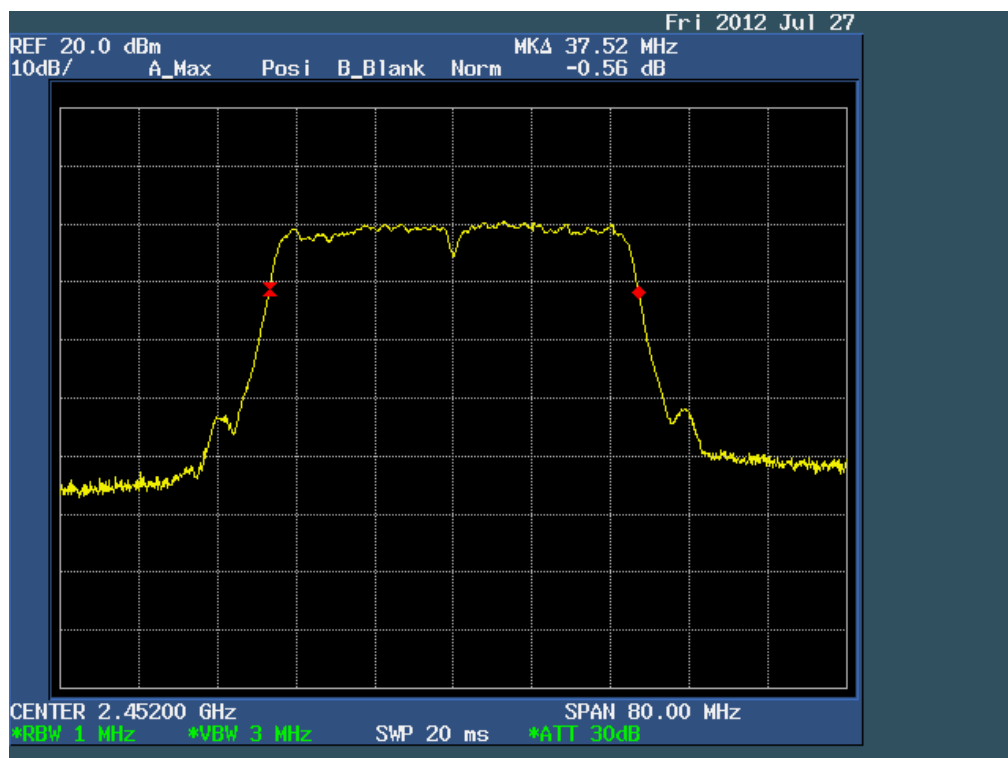
802.11n (40MHz \ 135Mbps)
The Lowest Channel 03: 2422MHz



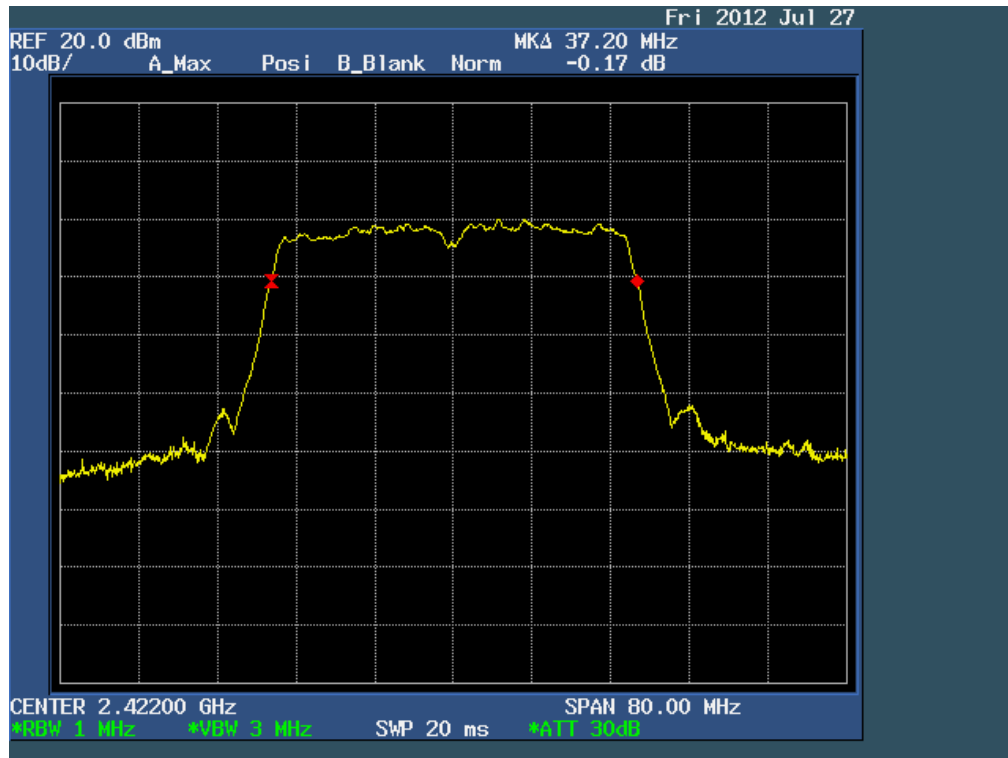
802.11n (40MHz \ 135Mbps)
The Middle Channel 06: 2437MHz



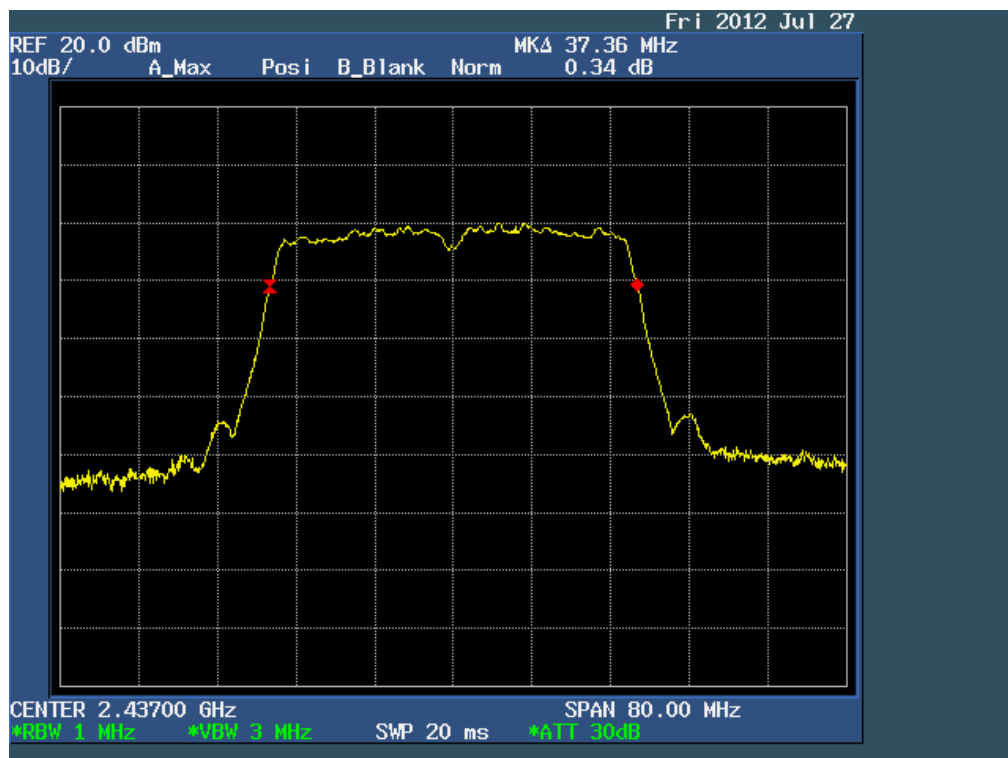
802.11n (40MHz \ 135Mbps)
The High Channel 09: 2452MHz



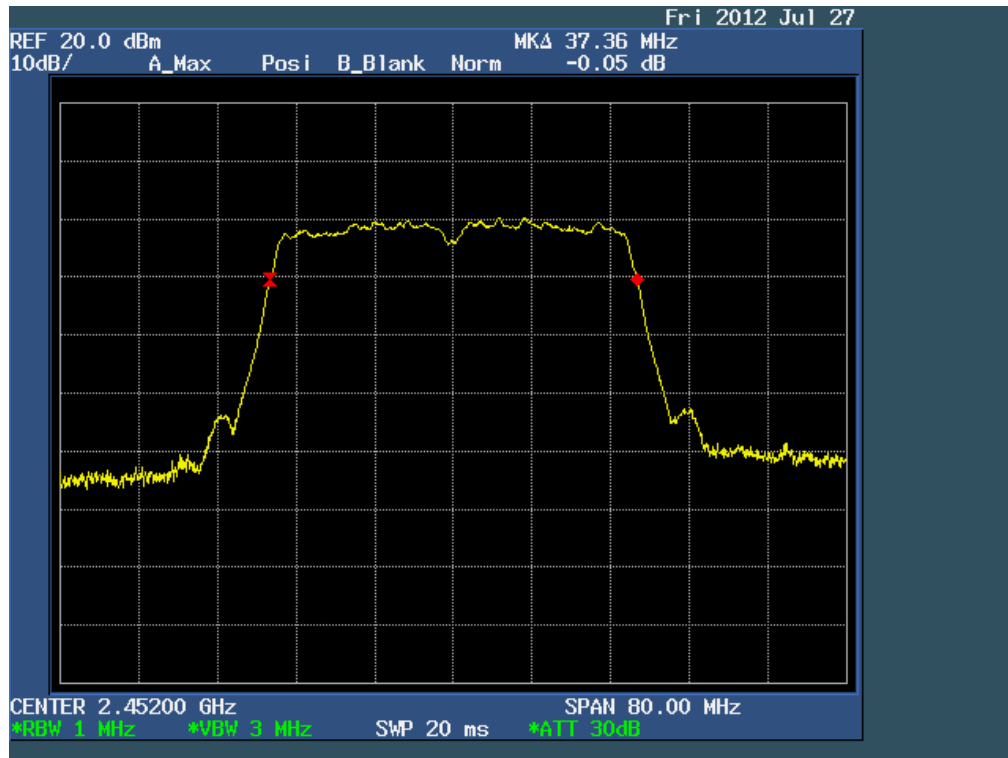
802.11n (40MHz \ 15Mbps)
The Lowest Channel 03: 2422MHz



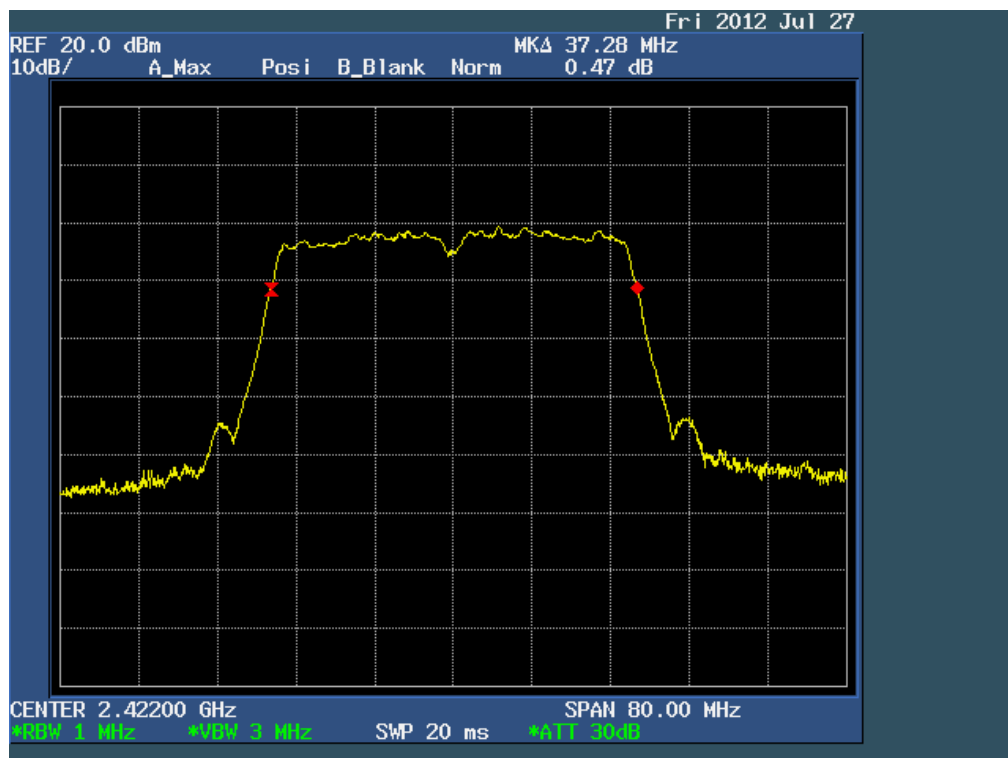
802.11n (40MHz \ 15Mbps)
The Middle Channel 06: 2437MHz



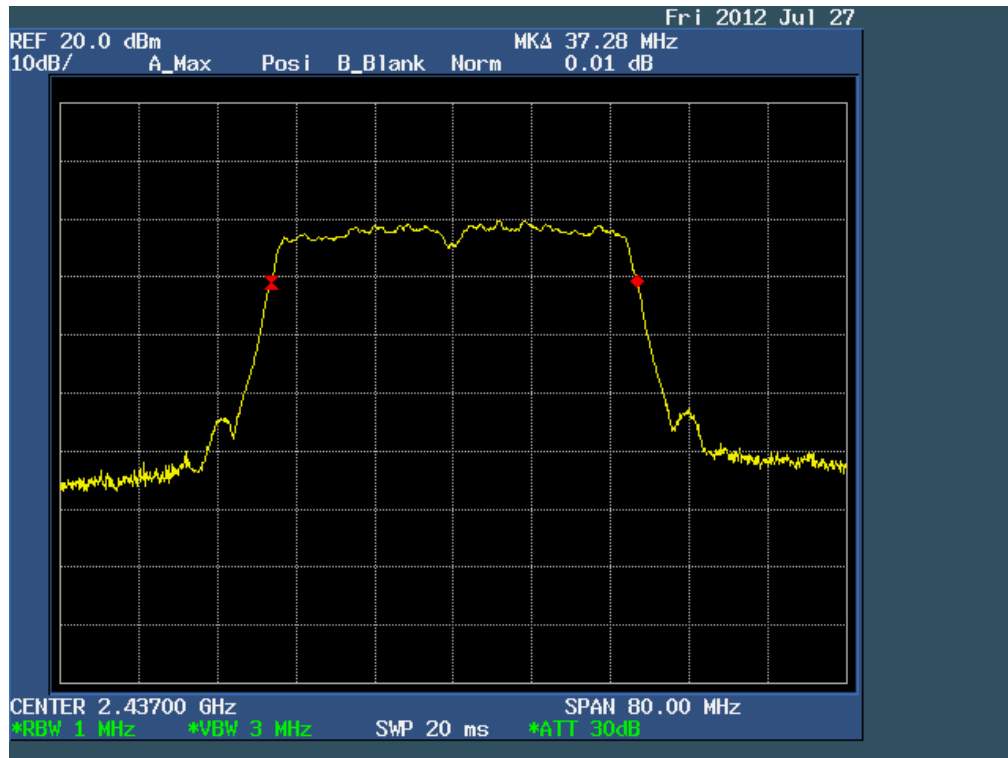
802.11n (40MHz \ 15Mbps)
The High Channel 09: 2452MHz



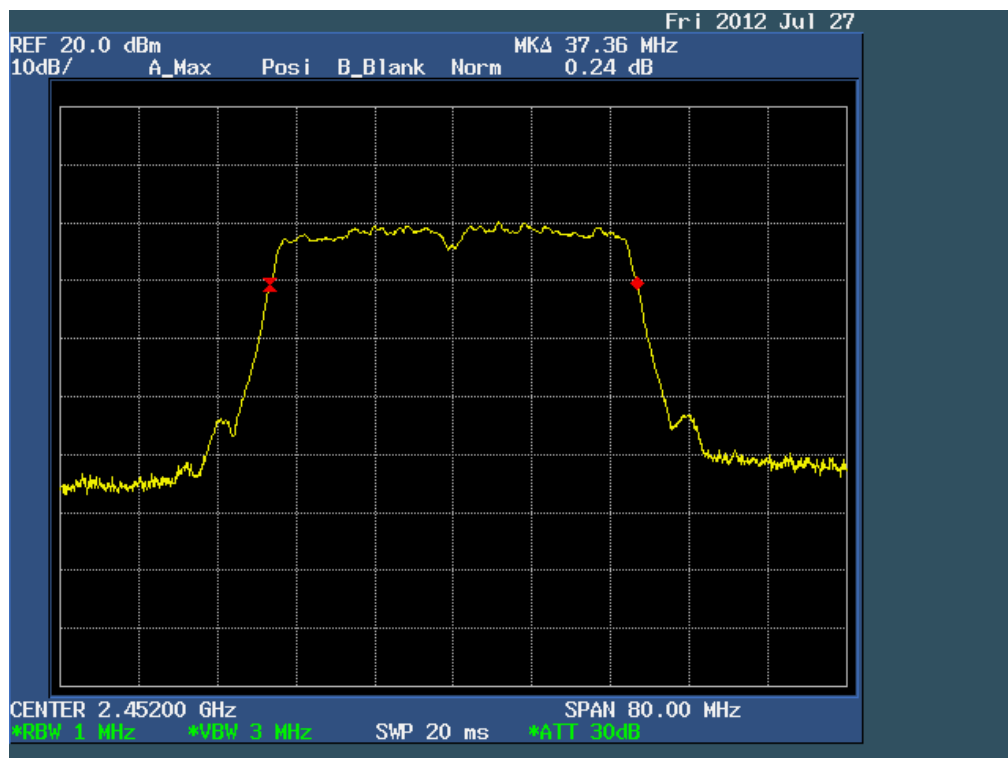
802.11n (40MHz \ 15Mbps)
The Lowest Channel 03: 2422MHz



802.11n (40MHz \ 150Mbps)
The Middle Channel 06: 2437MHz



802.11n (40MHz \ 150Mbps)
The High Channel 09: 2452MHz



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=100kHz, VBW=300kHz, Sweep time=Auto.

6.5.3 Deviation from standard

No deviation.

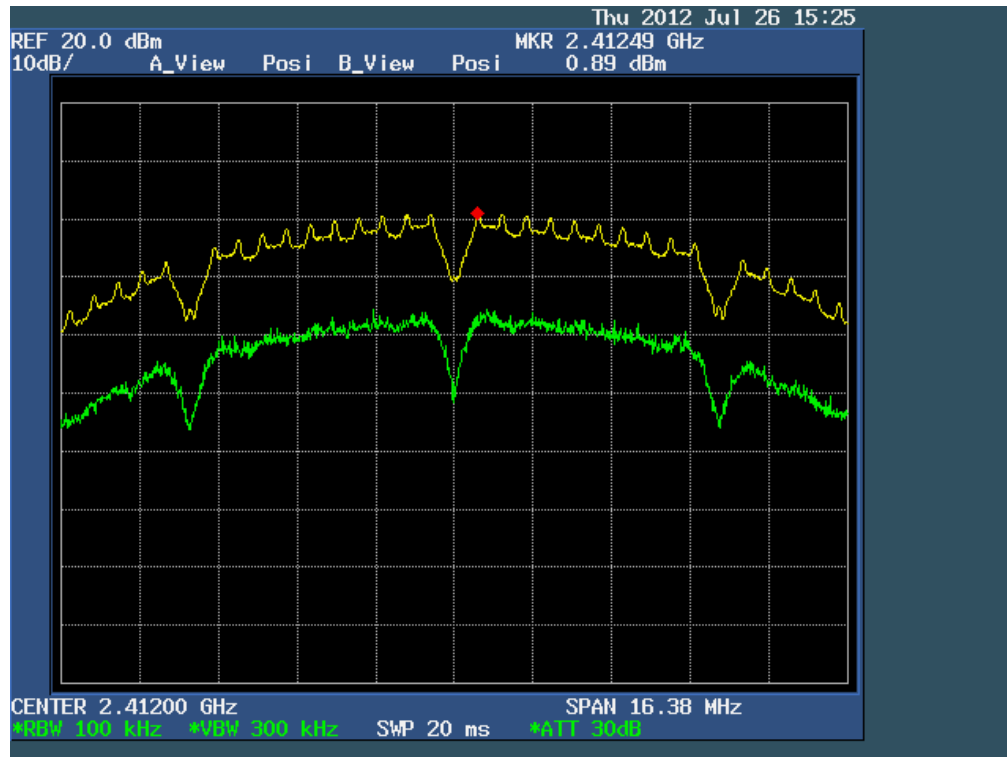
6.5.4 Test results

EUT:	Cloud Wifi TV Dongle	Model Name :	YM-8XXX
Temperature:	22 °C	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power :	DC 5.0 V from PC
Test Mode :	TX		

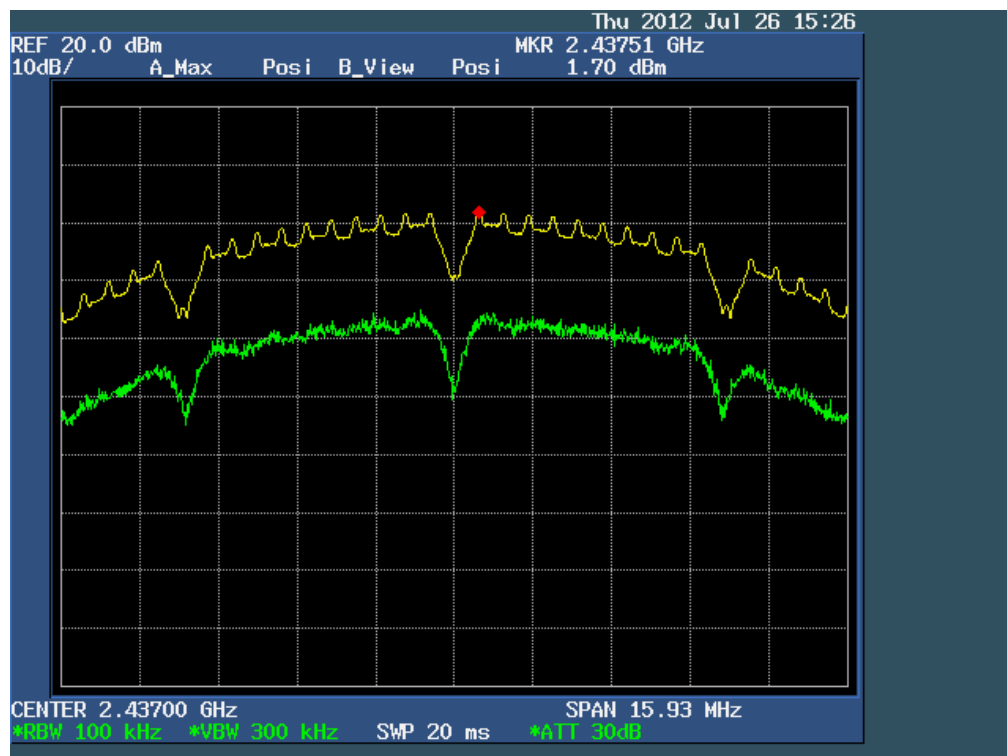
Test Mode	Channel frequency (MHz)	Peak (dBm)	With BWCF (dBm)	Limit (dBm)	Result
802.11b Data rate 1Mbps	2412	0.89	-14.31	8	Pass
	2437	1.70	-13.50	8	Pass
	2462	2.20	-13.00	8	Pass
802.11b Data rate 11Mbps	2412	0.94	-14.26	8	Pass
	2437	1.72	-13.48	8	Pass
	2462	2.34	-12.86	8	Pass
802.11g Data rate 6Mbps	2412	-7.41	-22.61	8	Pass
	2437	-6.59	-21.79	8	Pass
	2462	-6.06	-21.26	8	Pass
802.11g Data rate 54Mbps	2412	-6.15	-21.35	8	Pass
	2437	-5.32	-20.52	8	Pass
	2462	-5.01	-20.21	8	Pass
802.11n(20MHz) Data rate 6.5Mbps	2412	-7.43	-22.63	8	Pass
	2437	-6.52	-21.72	8	Pass
	2462	-6.13	-21.33	8	Pass
802.11n(20MHz) Data rate 65Mbps	2412	-7.51	-22.71	8	Pass
	2437	-6.59	-21.79	8	Pass
	2462	-6.40	-21.60	8	Pass
802.11n(20MHz) Data rate 7.2Mbps	2412	-6.32	-21.52	8	Pass
	2437	-5.47	-20.67	8	Pass
	2462	-4.95	-20.15	8	Pass
802.11n(20MHz) Data rate 72.2Mbps	2412	-6.94	-22.14	8	Pass
	2437	-6.23	-21.43	8	Pass
	2462	-5.79	-20.99	8	Pass
802.11n(40MHz) Data rate 13.5Mbps	2422	-9.91	-25.11	8	Pass
	2437	-8.85	-24.05	8	Pass
	2452	-9.04	-24.24	8	Pass
802.11n(40MHz) Data rate 135Mbps	2422	-9.44	-24.64	8	Pass
	2437	-9.46	-24.66	8	Pass

	2452	-8.63	-23.83	8	Pass
802.11n(40MHz) Data rate 15Mbps	2422	-9.28	-24.48	8	Pass
	2437	-8.85	-24.05	8	Pass
	2452	-8.73	-23.93	8	Pass
802.11n(40MHz) Data rate 150Mbps	2422	-8.95	-24.15	8	Pass
	2437	-8.91	-24.11	8	Pass
	2452	-9.59	-24.79	8	Pass

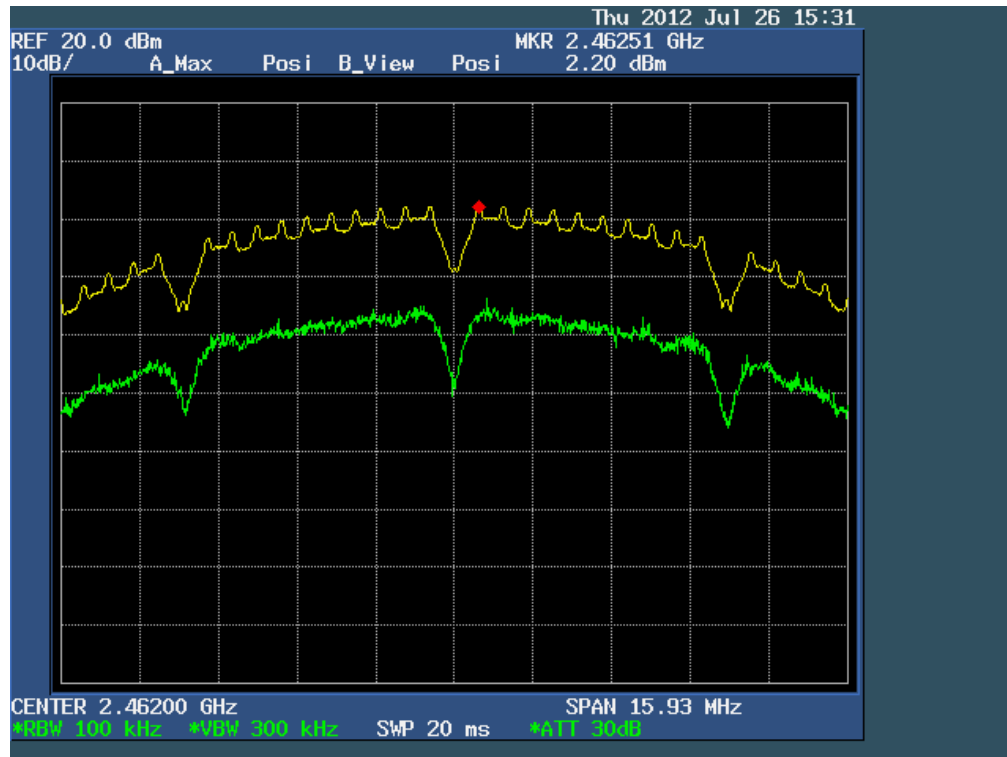
802.11b (1Mbps)
The Lowest Channel 01: 2412MHz



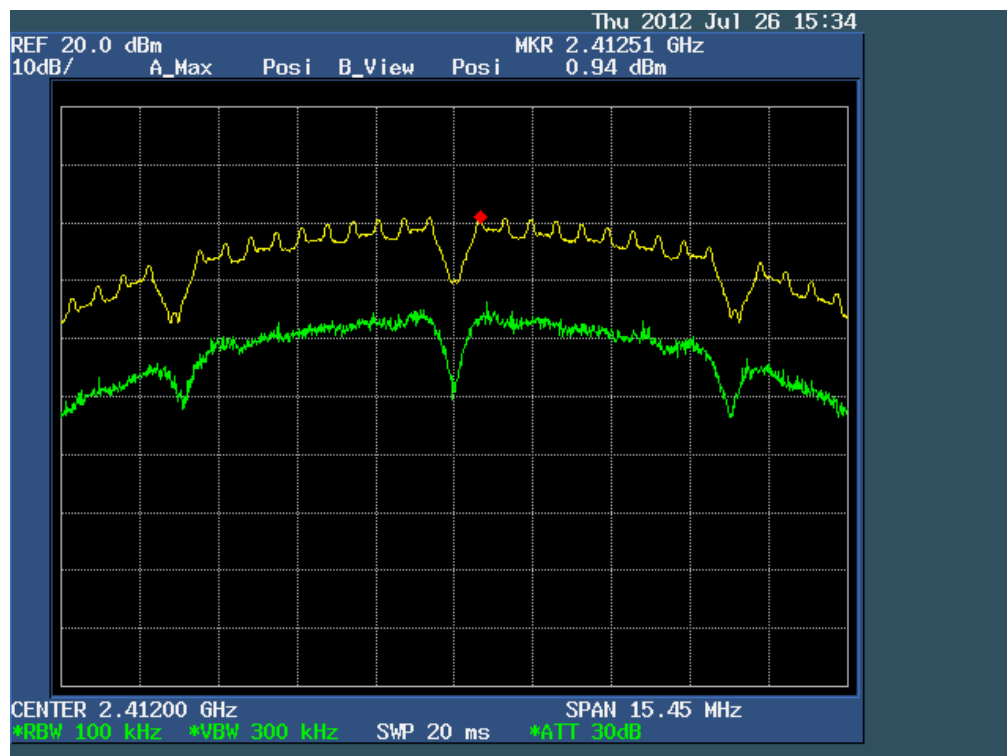
802.11b (1Mbps)
The Middle Channel 06: 2437MHz



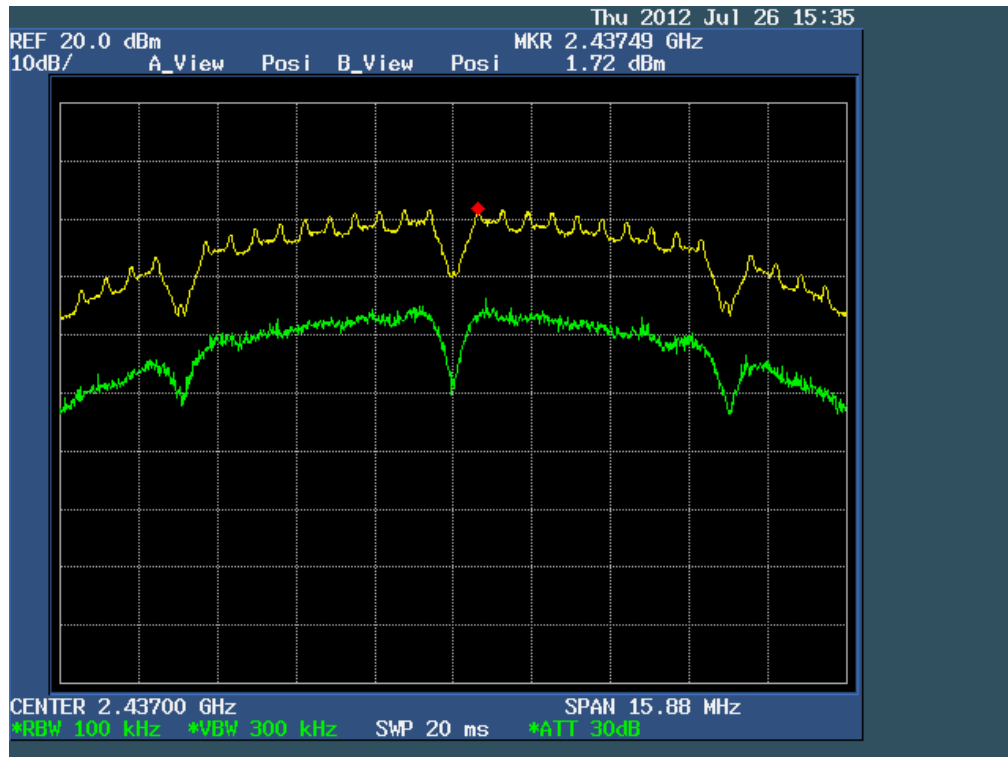
802.11b (1Mbps) The High Channel 11: 2462MHz



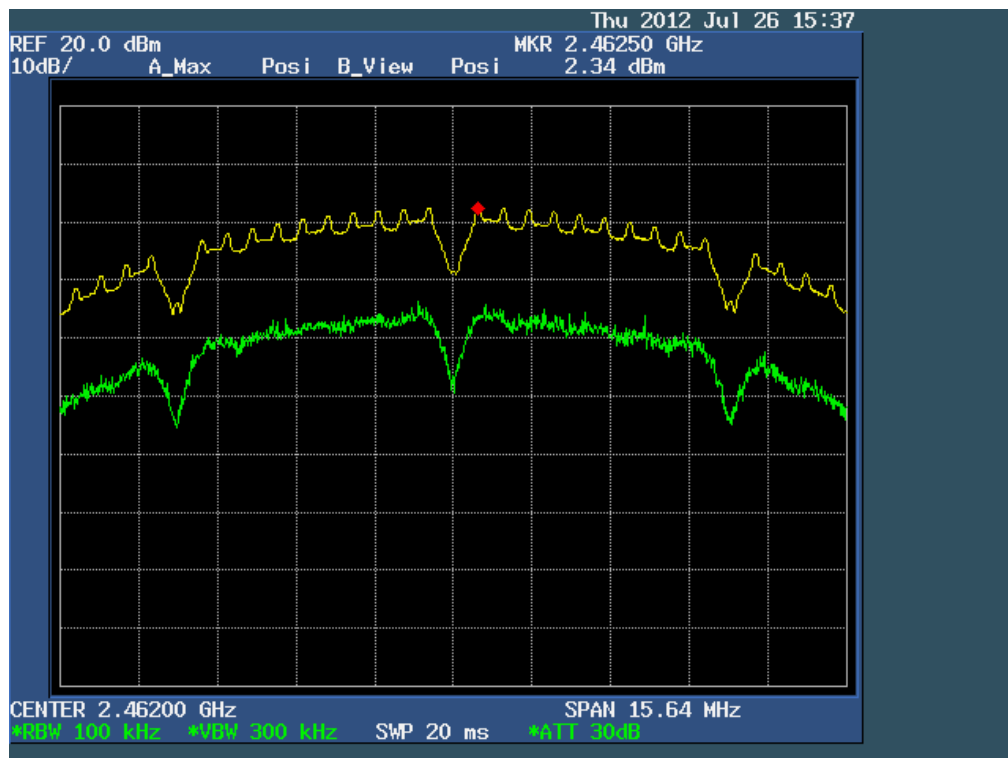
802.11b (11Mbps) The Lowest Channel 01: 2412MHz



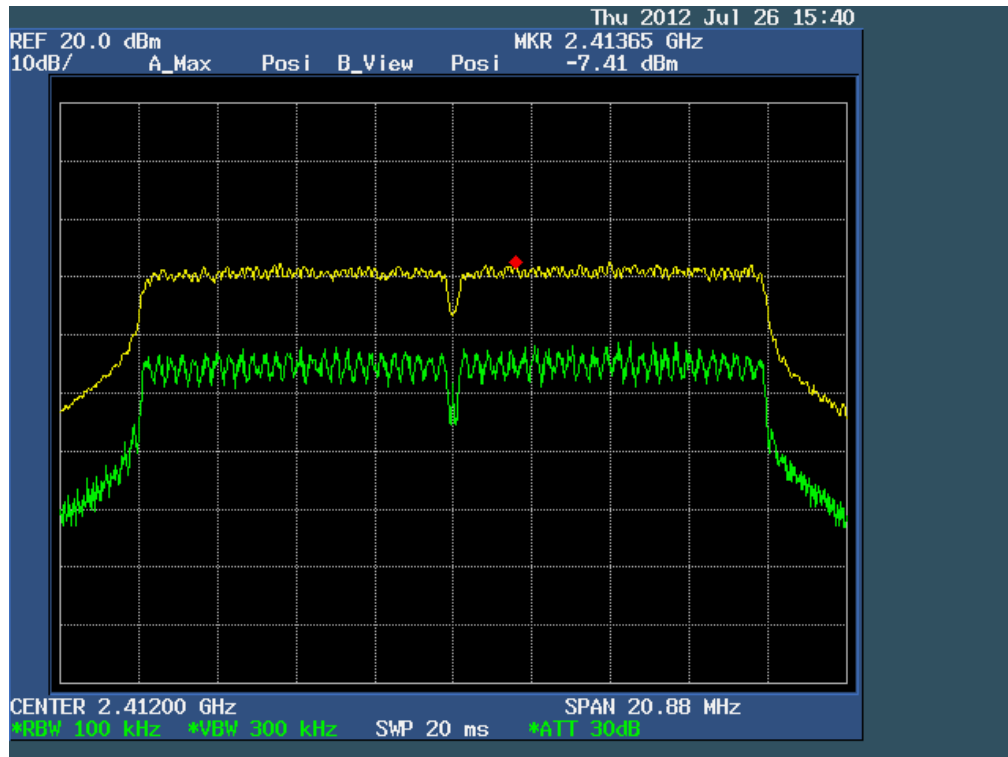
802.11b (11Mbps)
The Middle Channel 06: 2437MHz



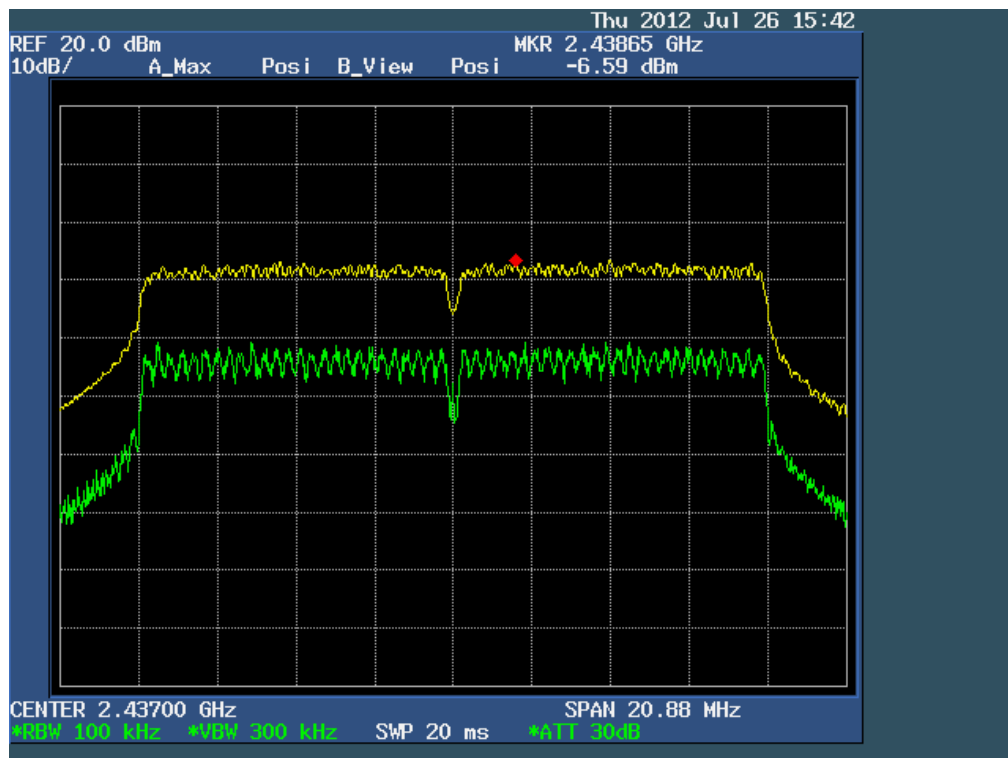
802.11b (11Mbps)
The High Channel 11: 2462MHz



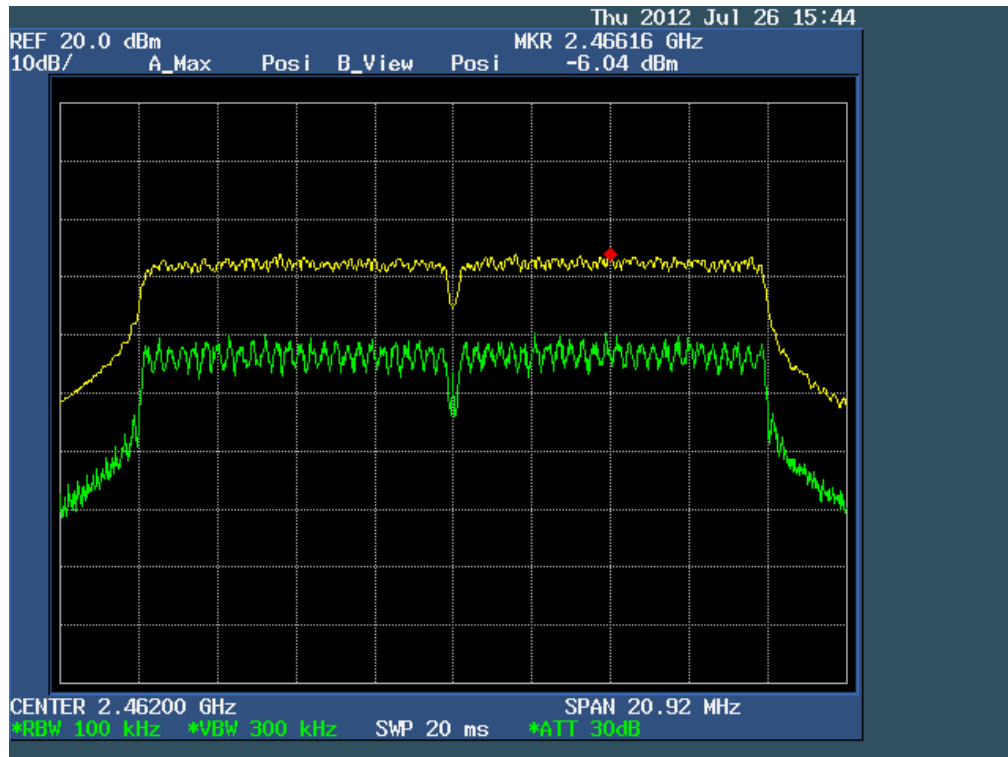
802.11g (6Mbps)
The Lowest Channel 01: 2412MHz



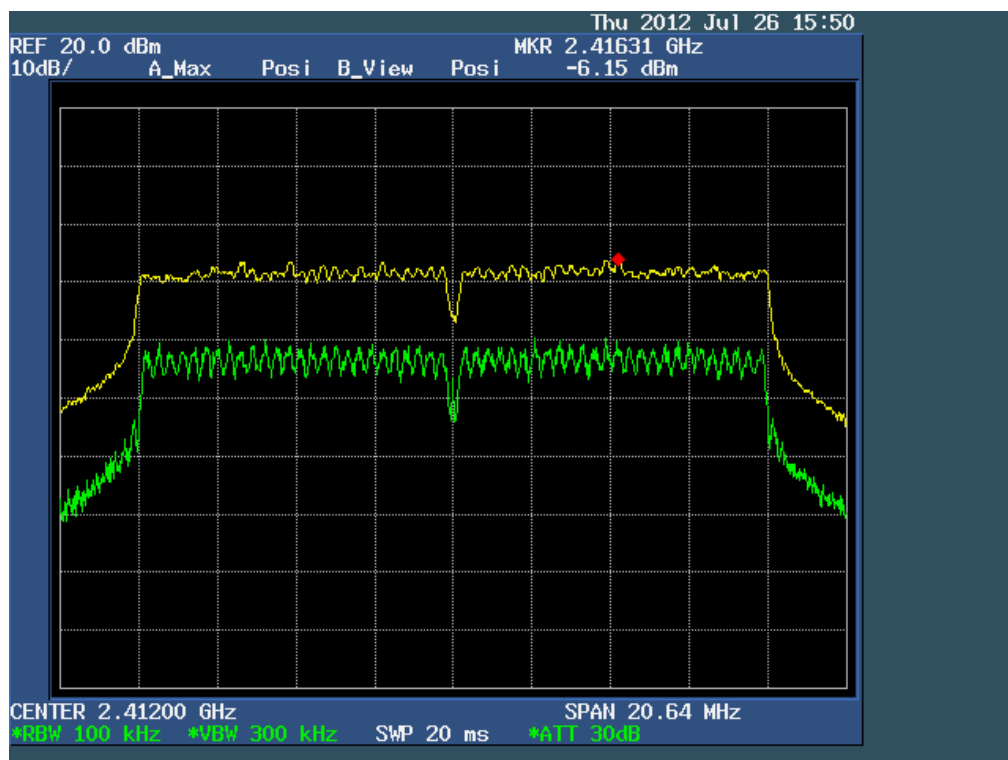
802.11g (6Mbps)
The Middle Channel 06: 2437MHz



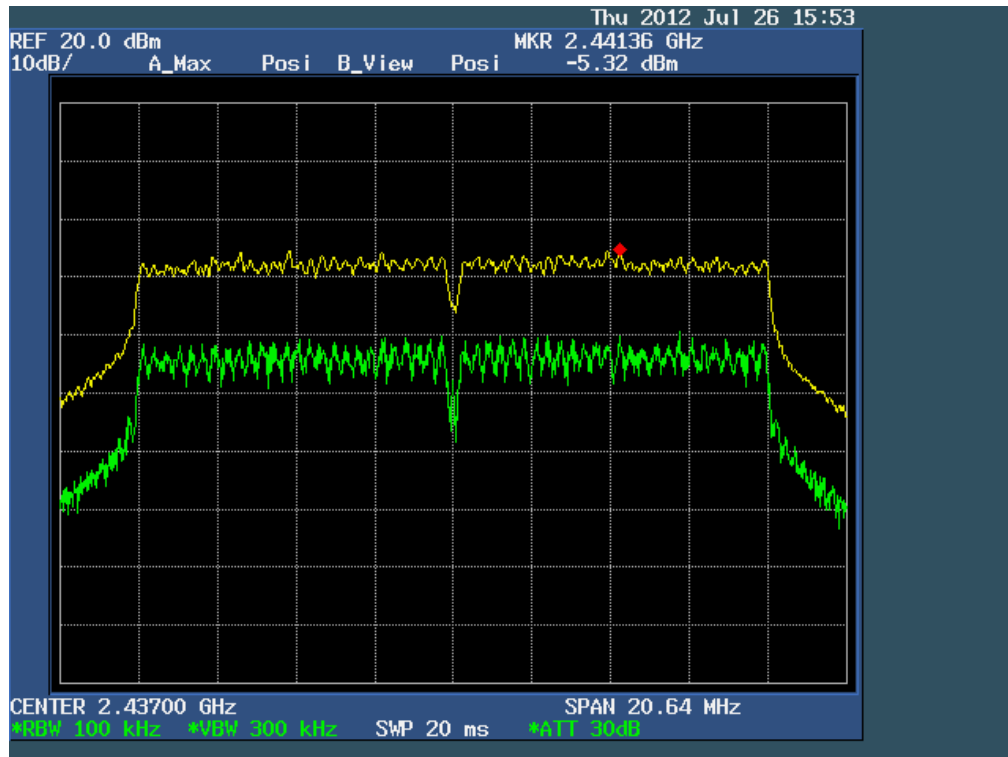
802.11g (6Mbps)
The High Channel 11: 2462MHz



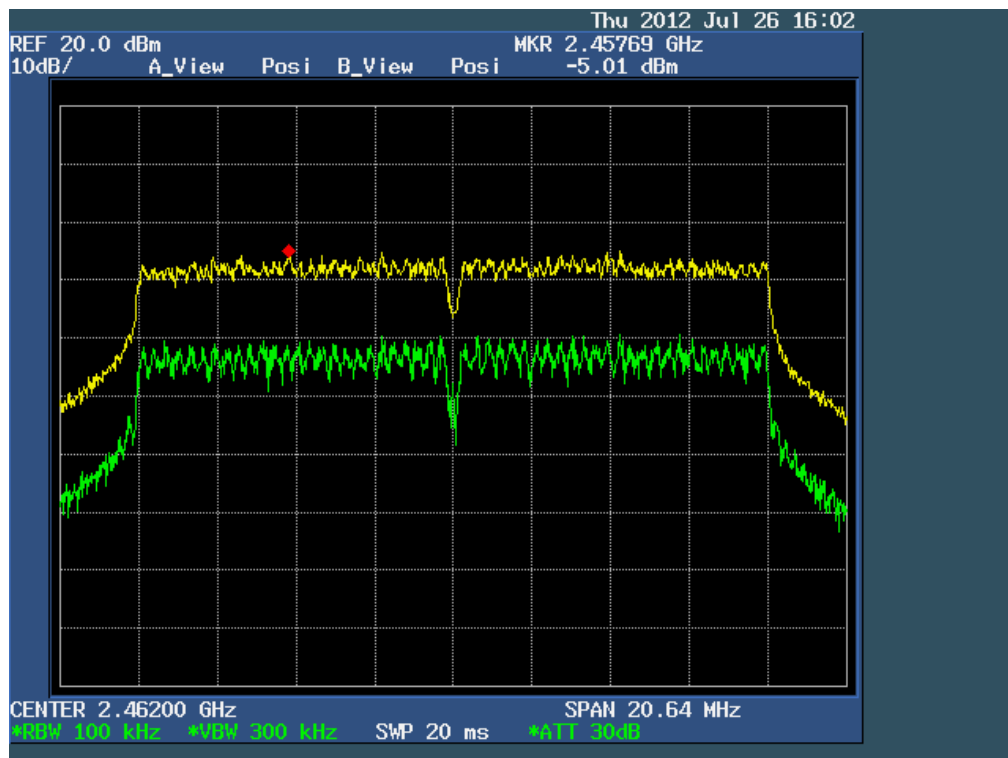
802.11g (54Mbps)
The Lowest Channel 01: 2412MHz



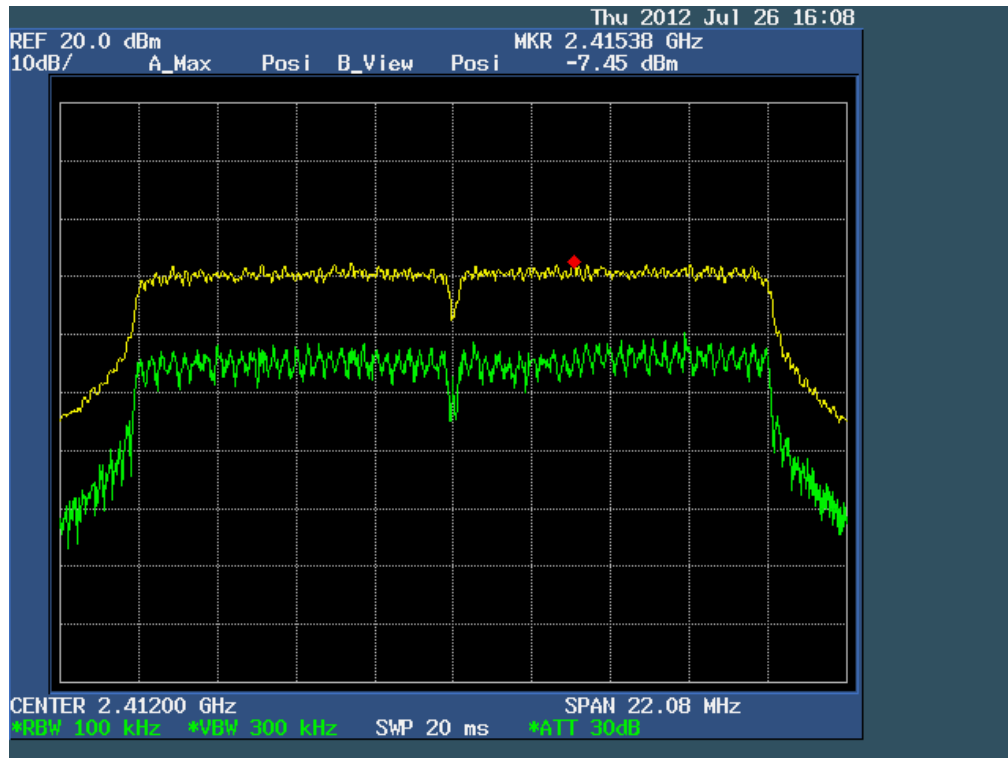
802.11g (54Mbps)
The Middle Channel 06: 2437MHz



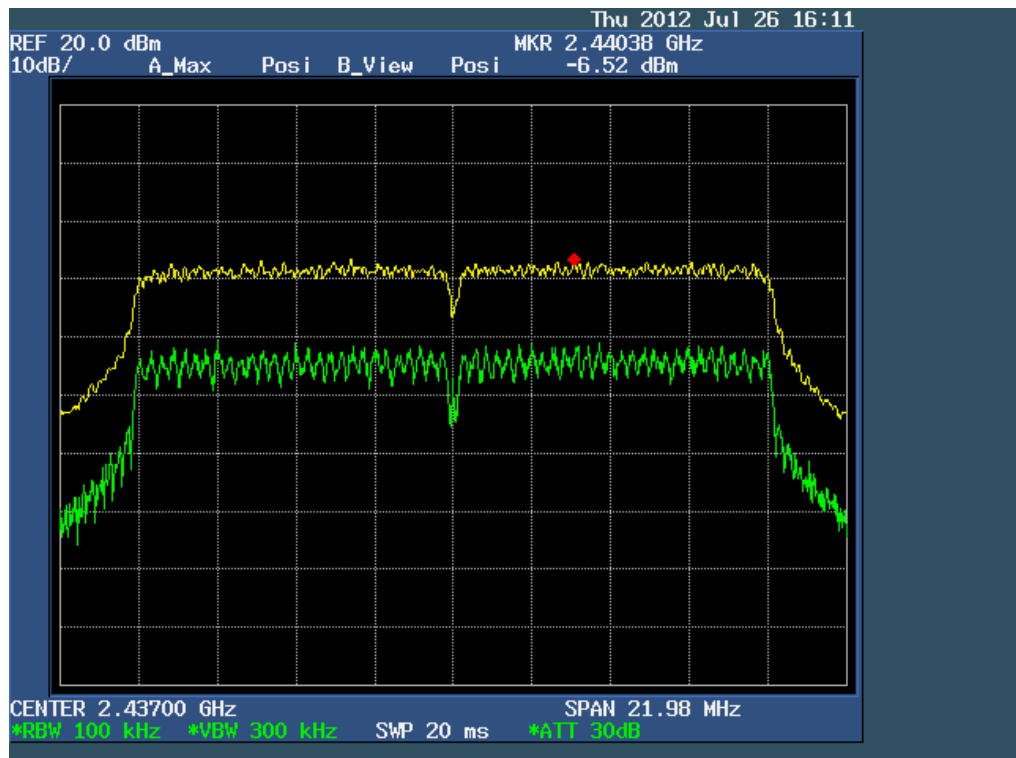
802.11g (54Mbps)
The High Channel 11: 2462MHz



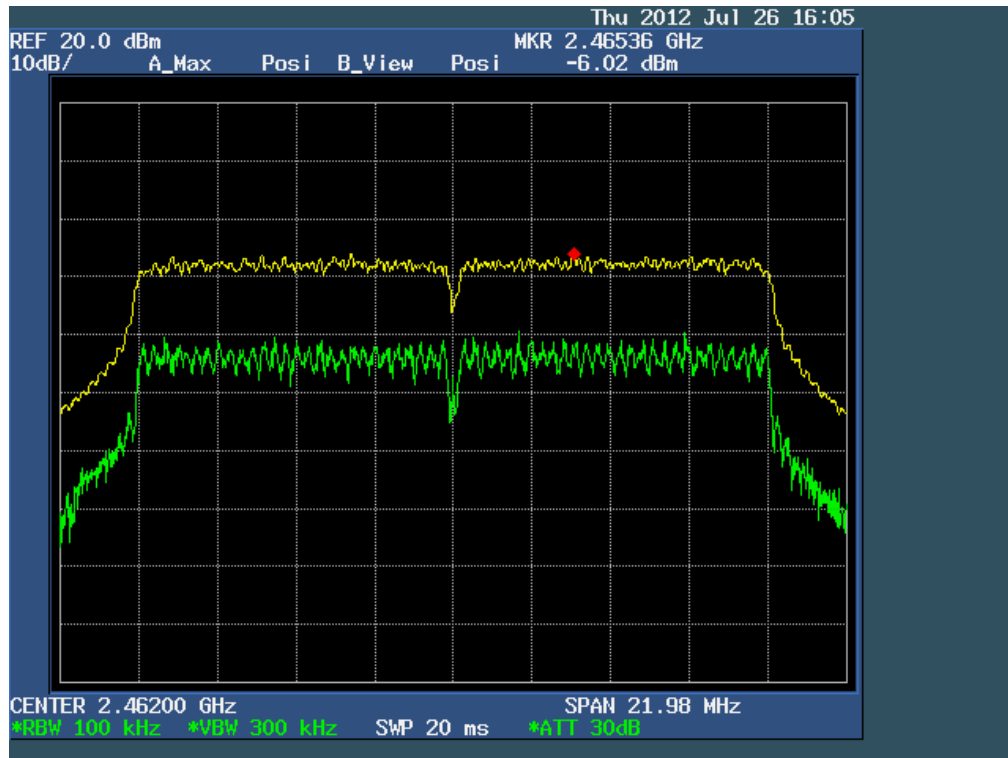
802.11n (20MHz \ 6.5Mbps)
The Lowest Channel 01: 2412MHz



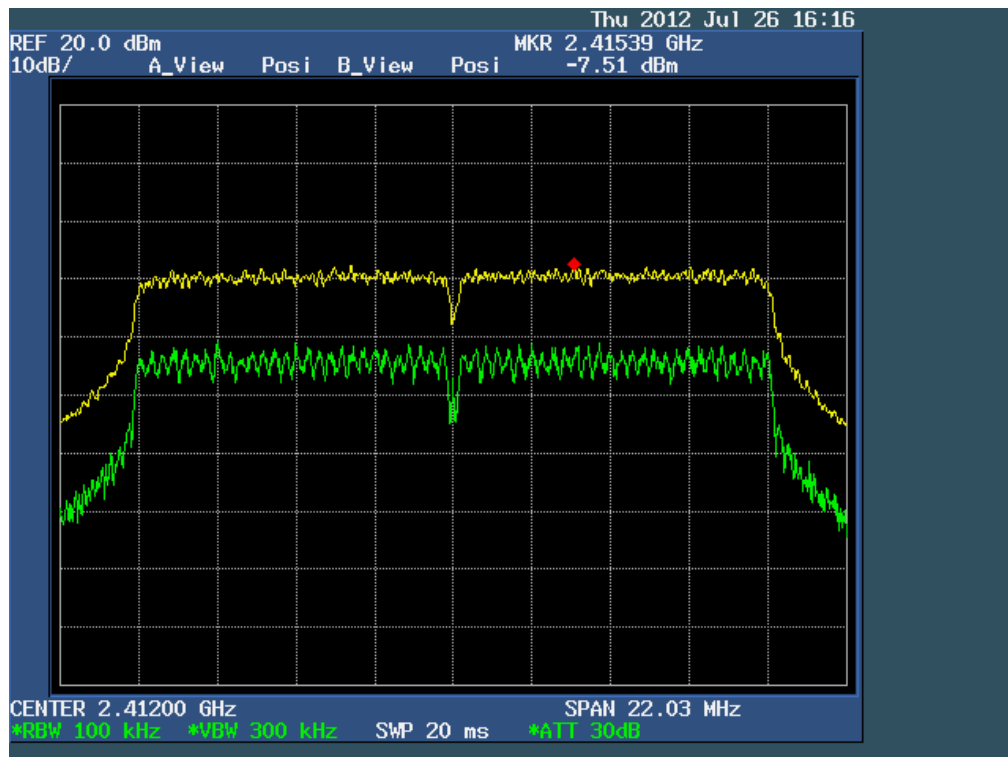
802.11n (20MHz \ 6.5Mbps)
The Middle Channel 06: 2437MHz



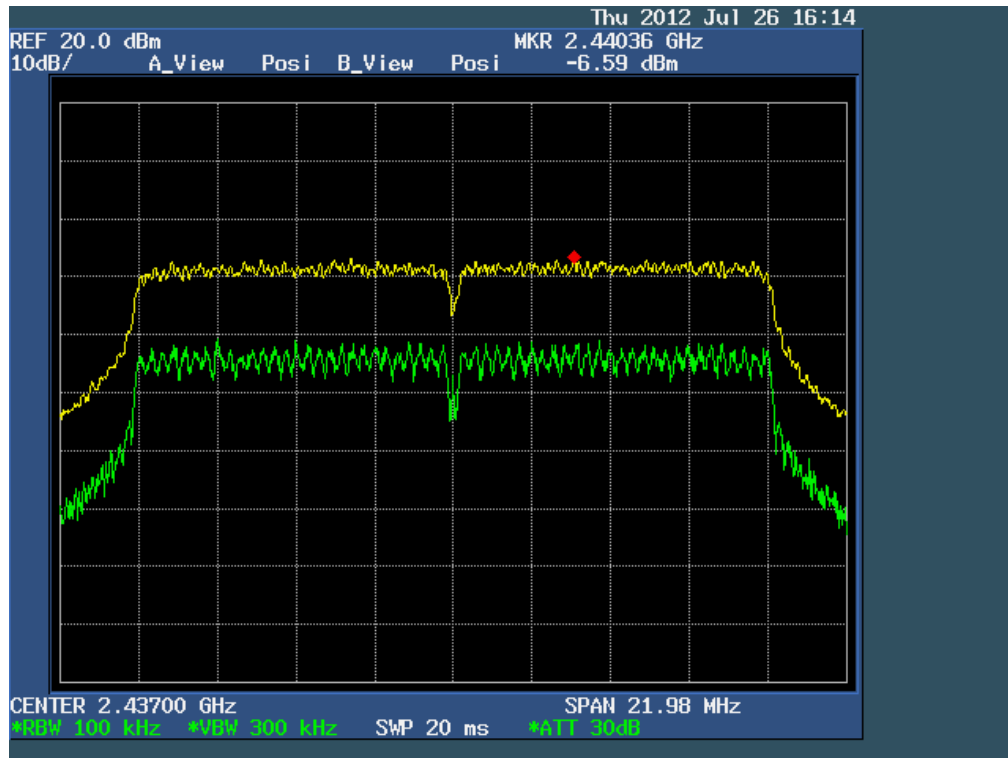
802.11n (20MHz \ 6.5Mbps)
The High Channel 11: 2462MHz



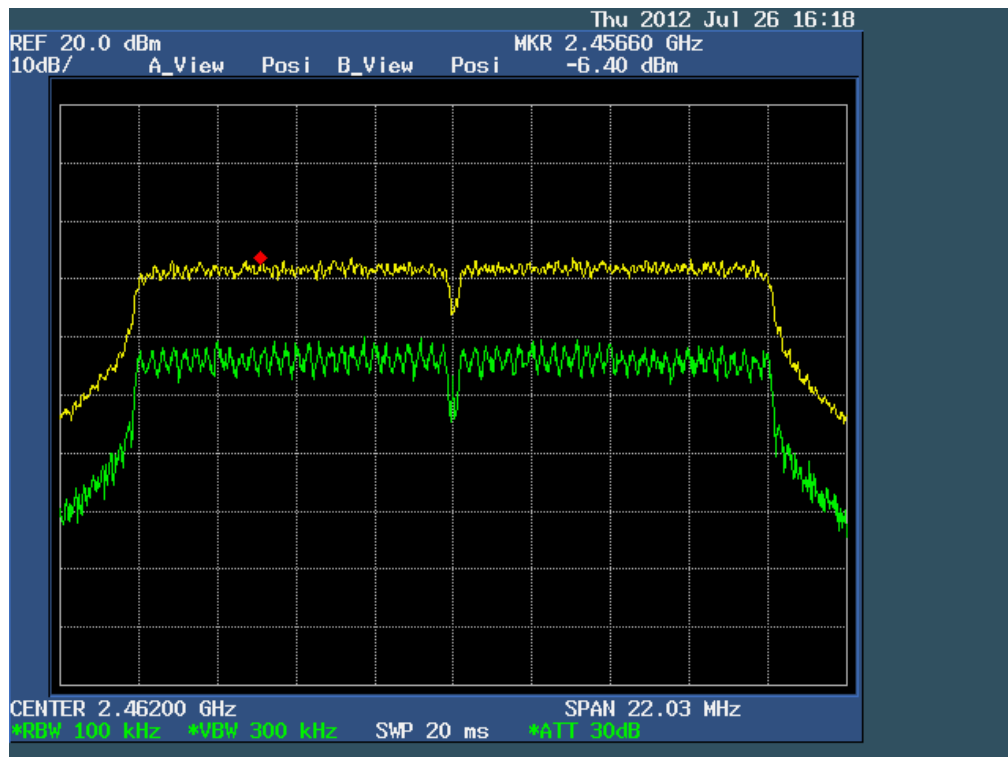
802.11n (20MHz \ 65Mbps)
The Lowest Channel 01: 2412MHz



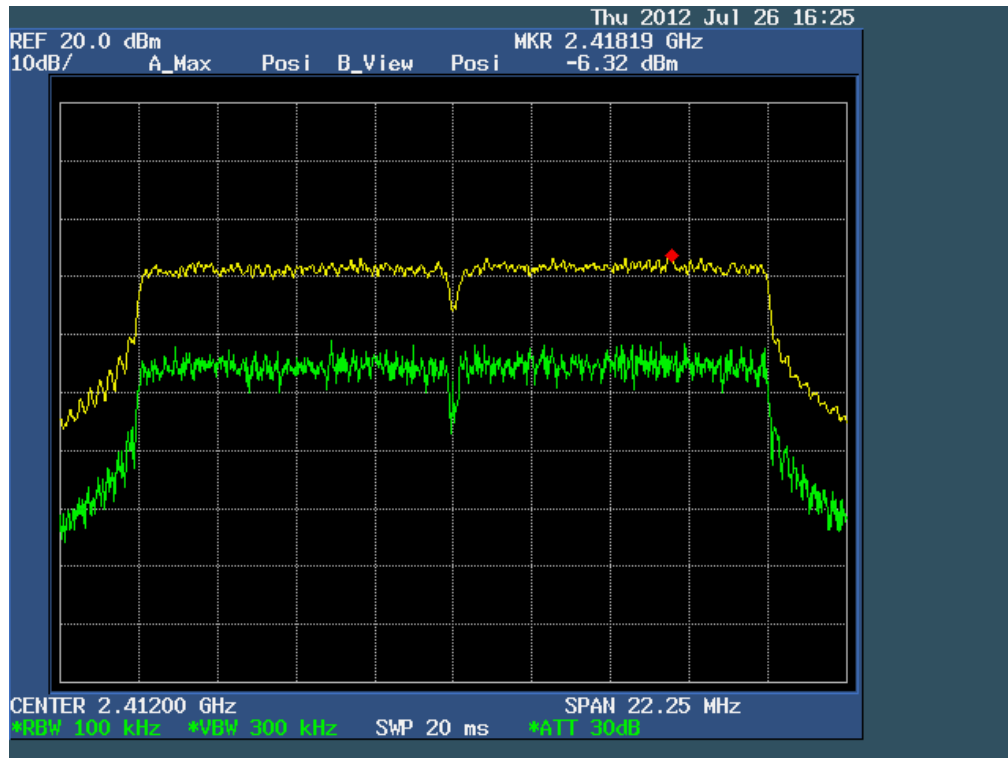
802.11n (20MHz \ 65Mbps)
The Middle Channel 06: 2437MHz



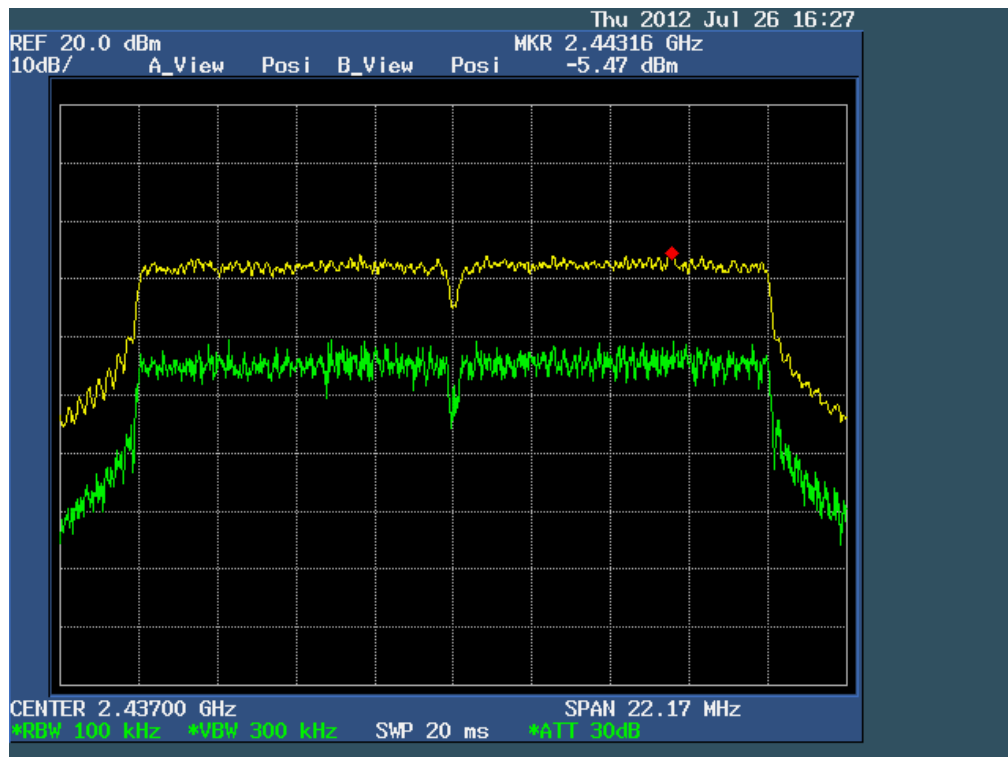
802.11n (20MHz \ 65Mbps)
The High Channel 11: 2462MHz



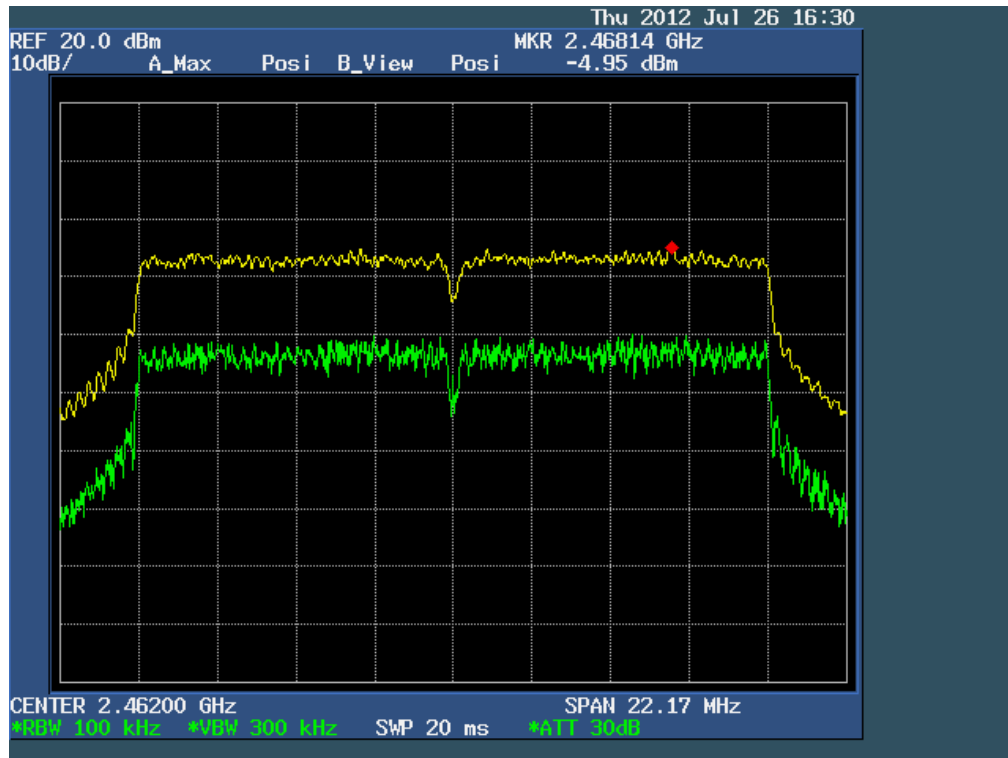
802.11n (20MHz \ 7.2Mbps)
The Lowest Channel 01: 2412MHz



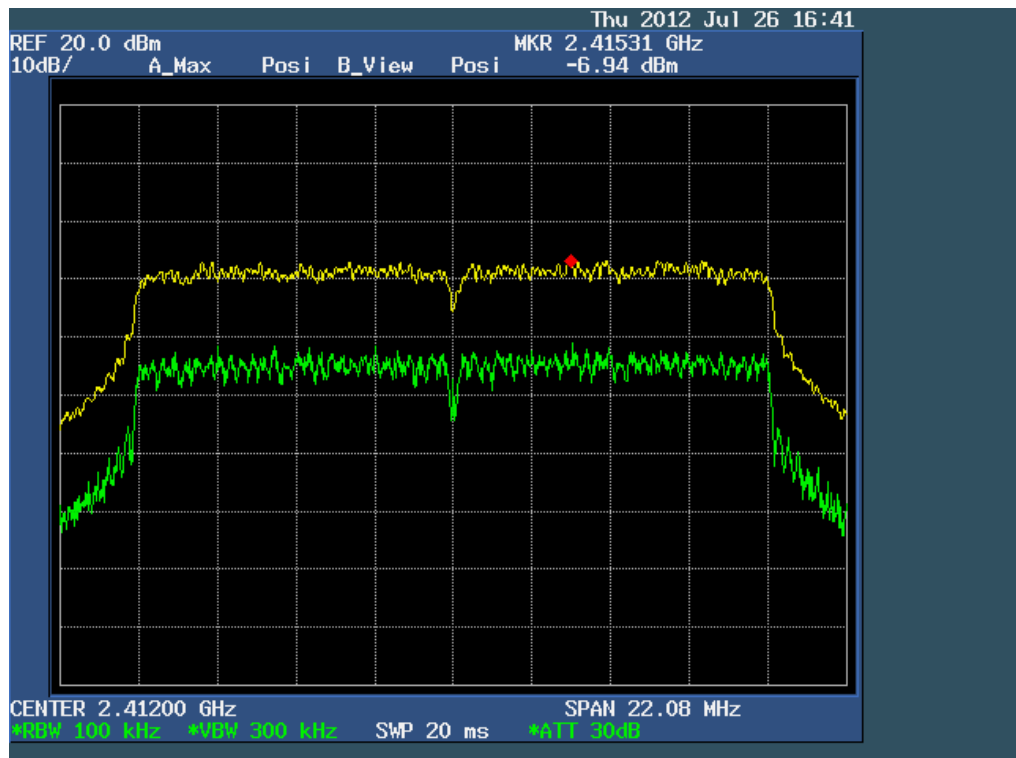
802.11n (20MHz \ 7.2Mbps)
The Middle Channel 06: 2437MHz



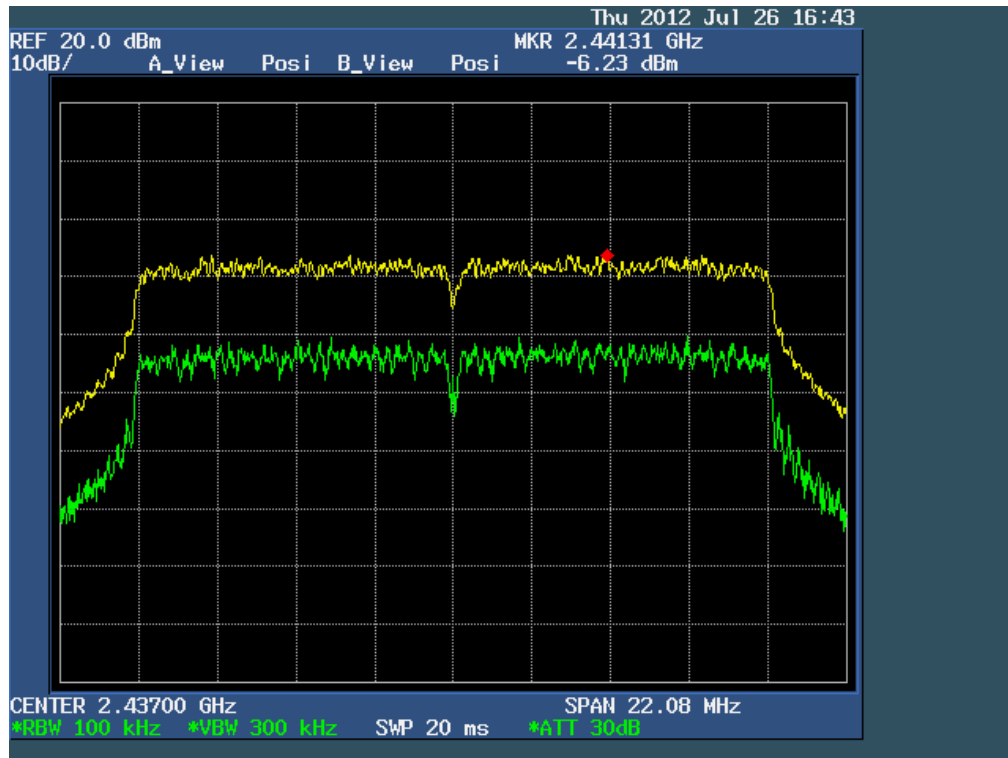
802.11n (20MHz \ 7.2Mbps)
The High Channel 11: 2462MHz



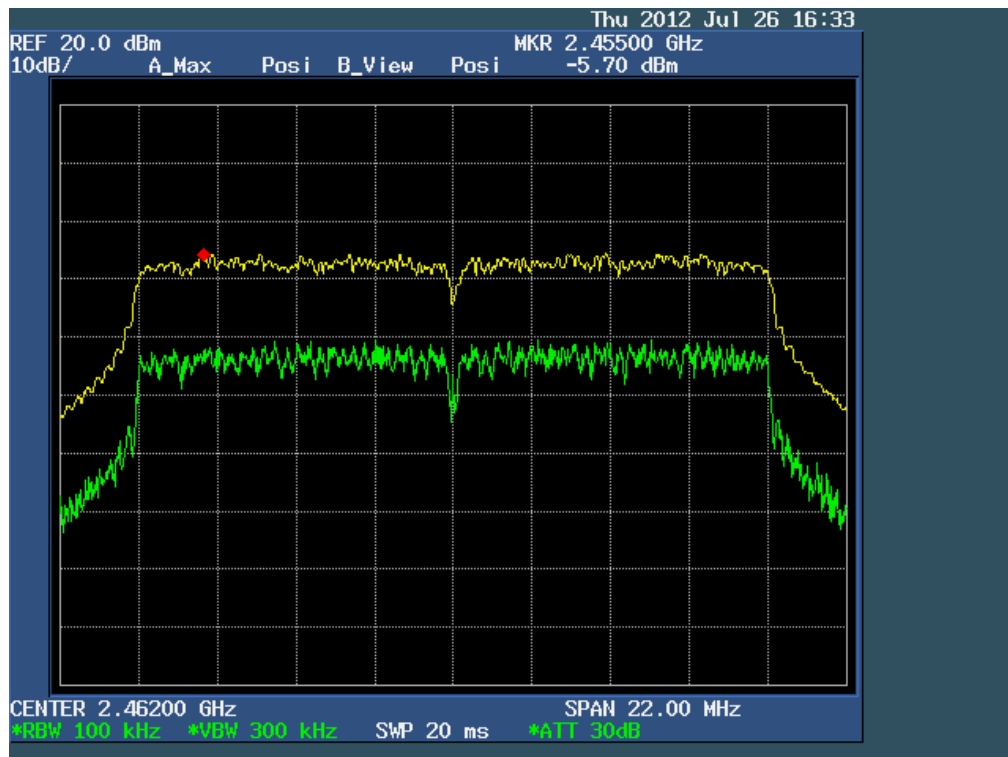
802.11n (20MHz \ 72.2Mbps)
The Lowest Channel 01: 2412MHz



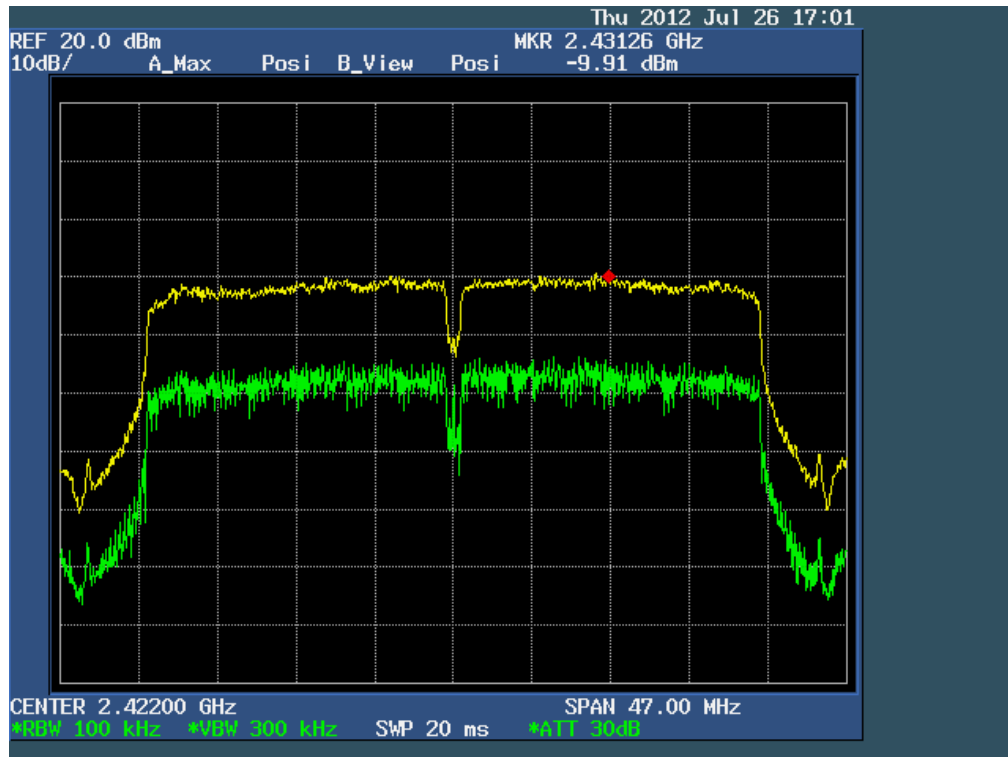
802.11n (20MHz \ 72.2Mbps)
The Middle Channel 06: 2437MHz



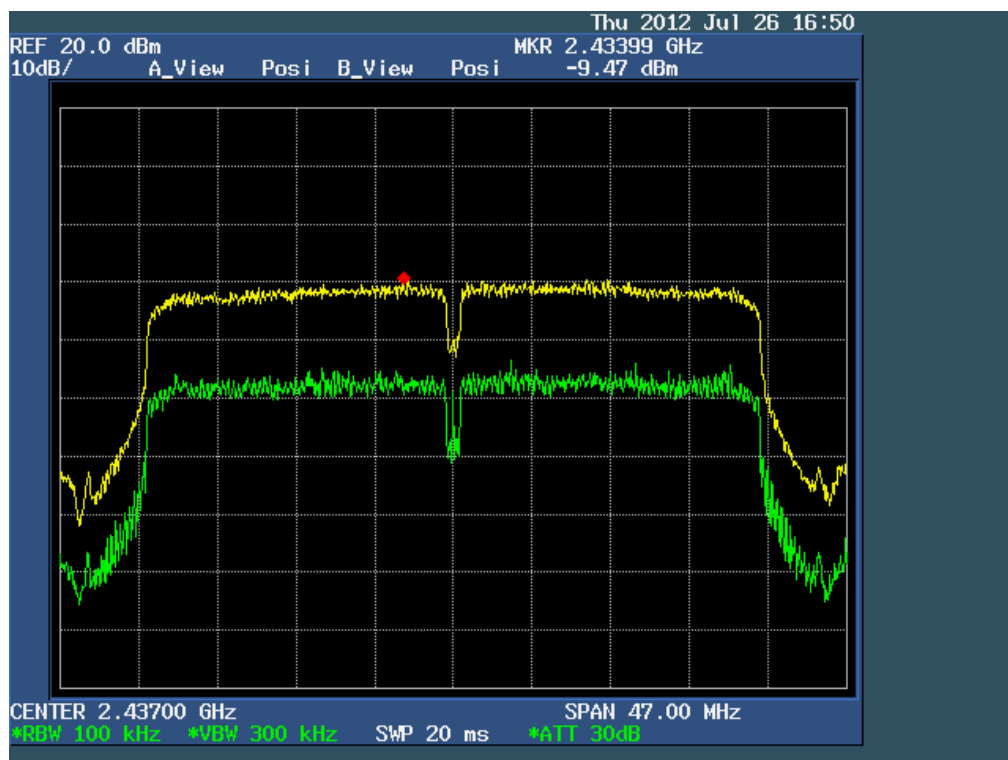
802.11n (20MHz \ 72.2Mbps)
The High Channel 11: 2462MHz



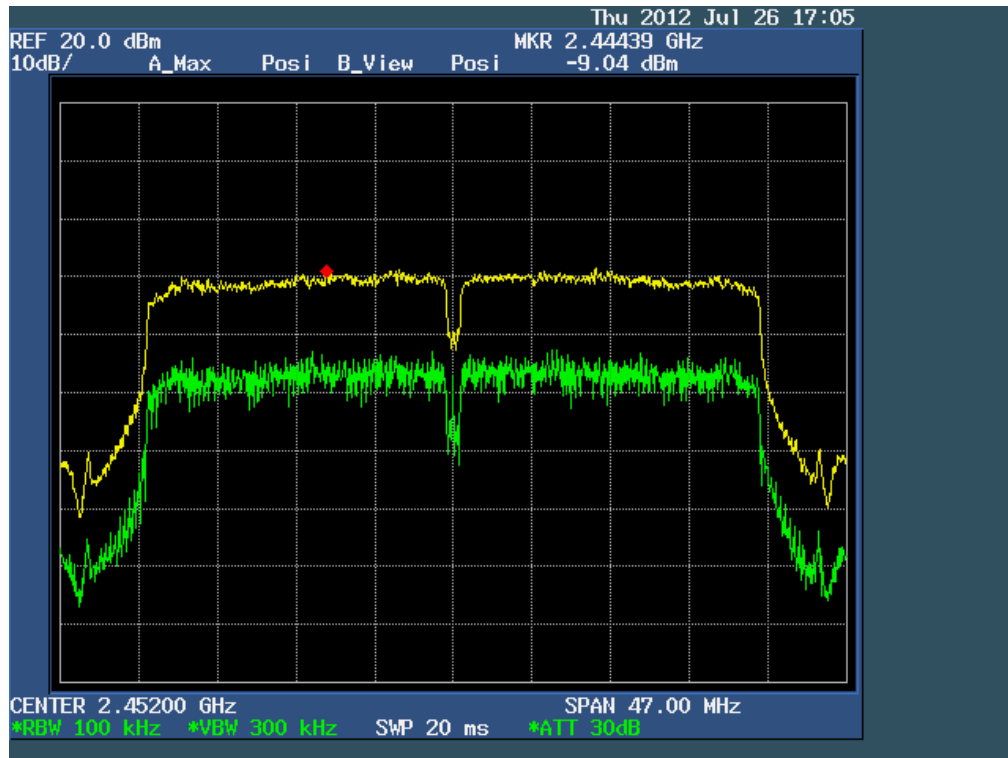
802.11n (40MHz \ 13.5Mbps)
The Lowest Channel 03: 2422MHz



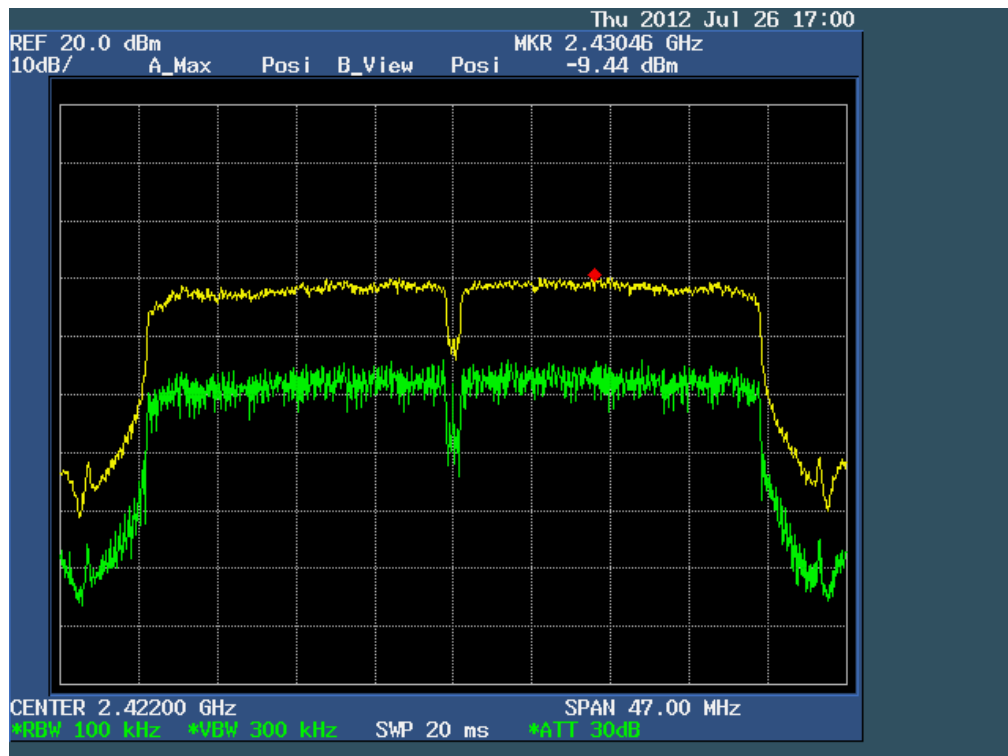
802.11n (40MHz \ 13.5Mbps)
The Middle Channel 06: 2437MHz



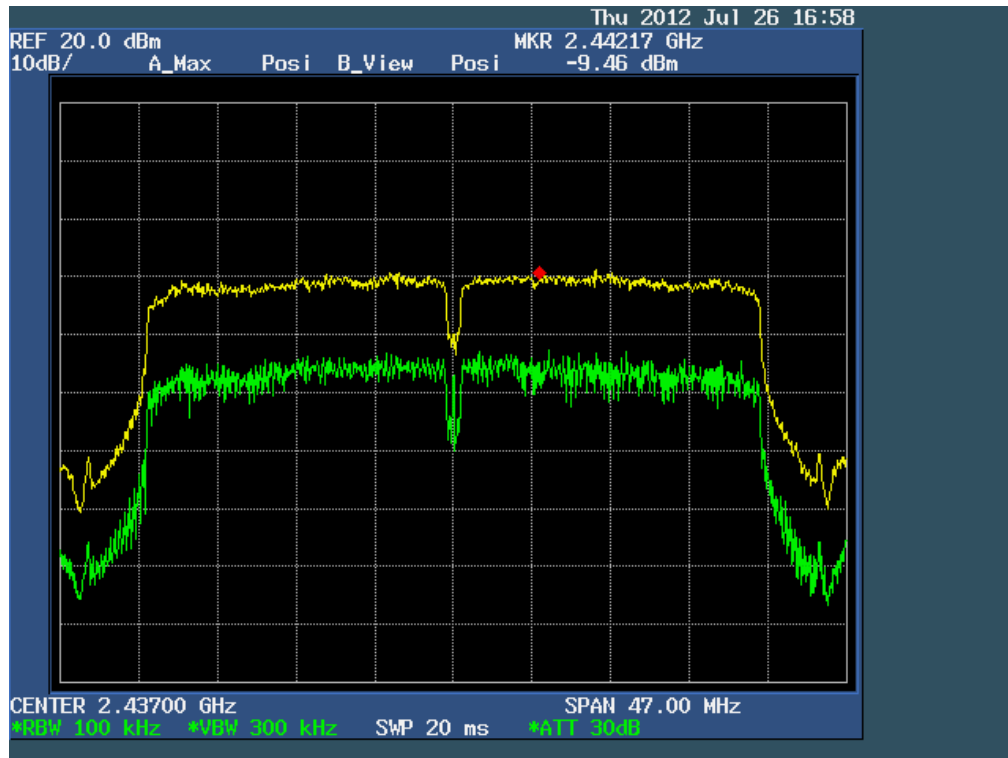
802.11n (40MHz \ 13.5Mbps)
The High Channel 09: 2452MHz



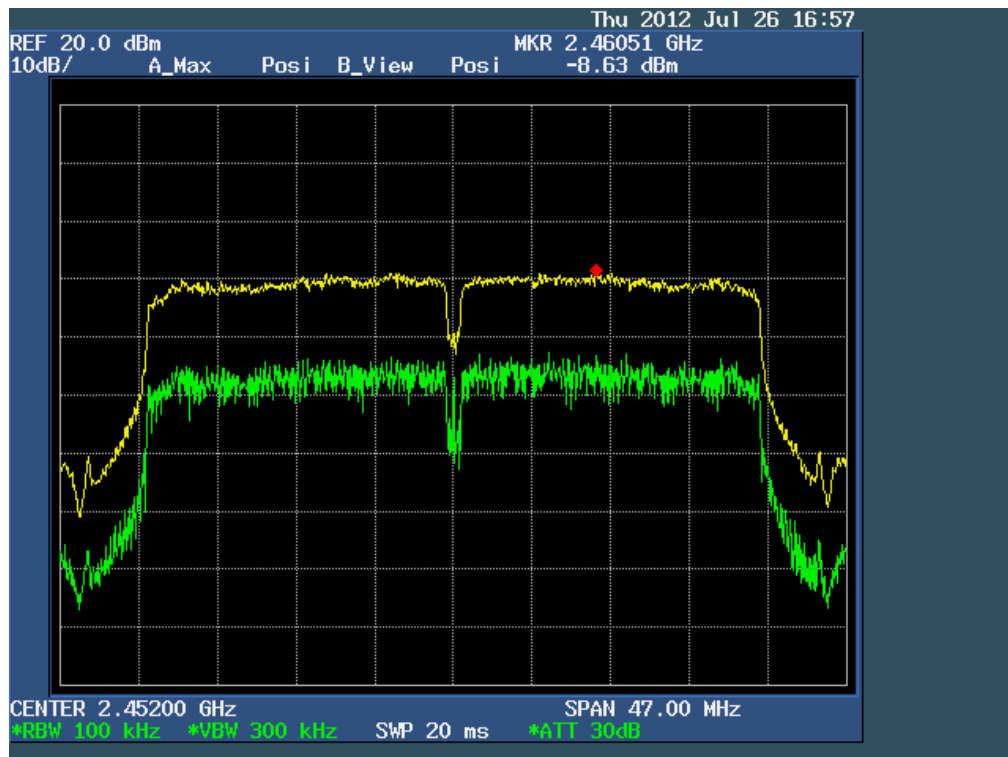
802.11n (40MHz \ 135Mbps)
The Lowest Channel 03: 2422MHz



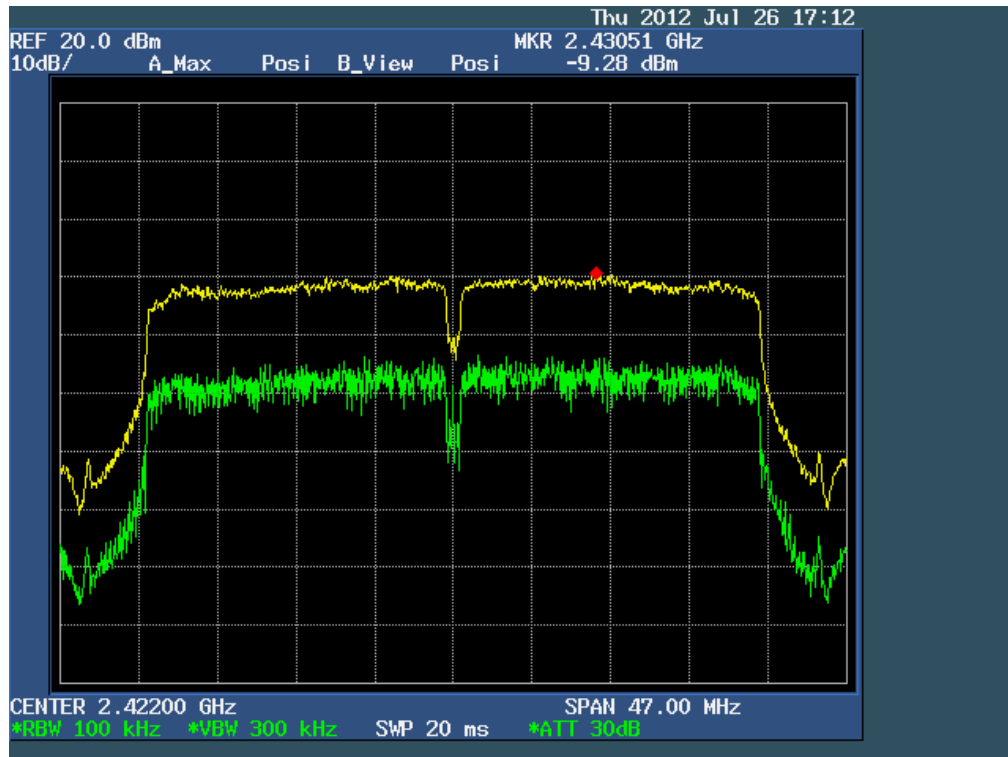
802.11n (40MHz \ 135Mbps)
The Middle Channel 06: 2437MHz



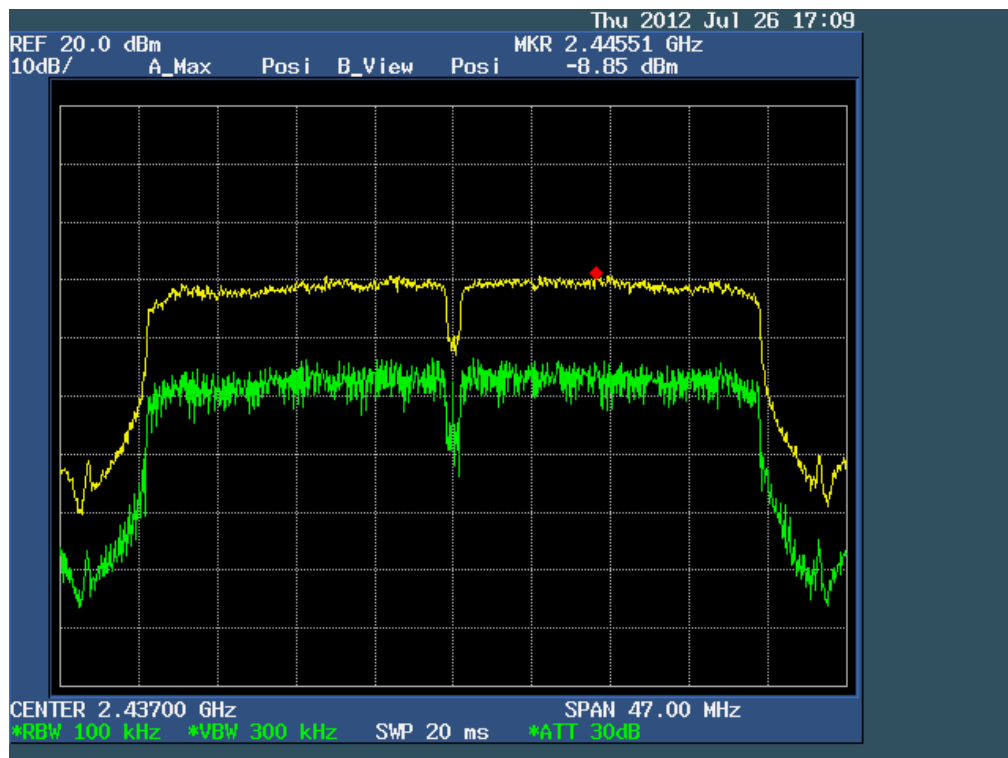
802.11n (40MHz \ 135Mbps)
The High Channel 09: 2452MHz



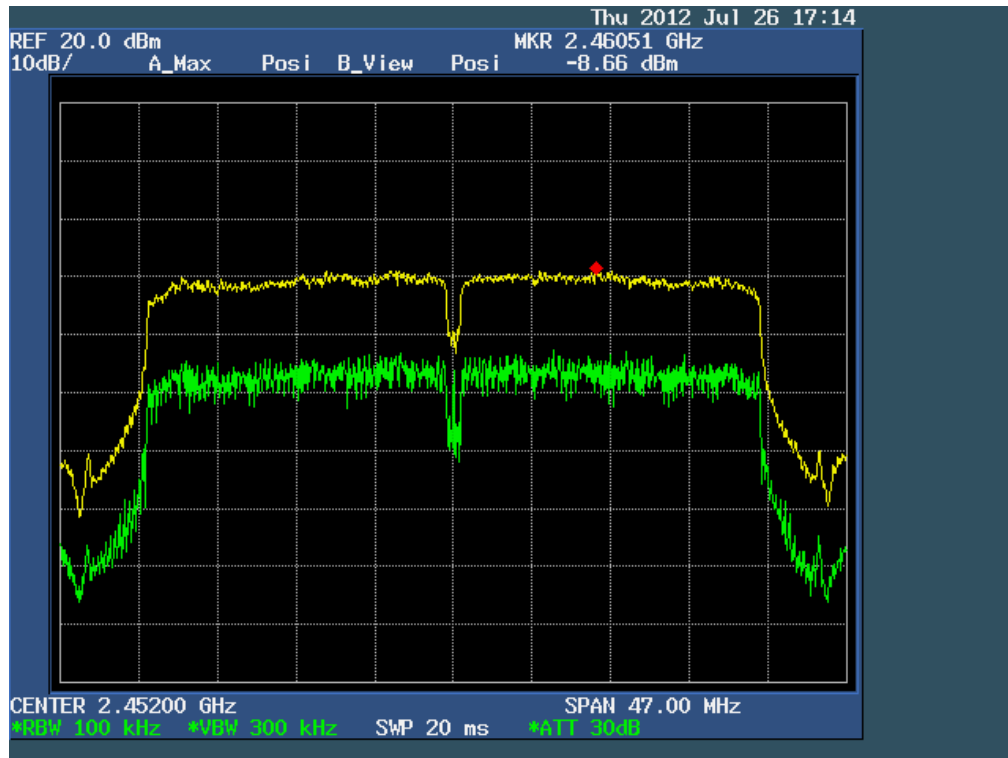
802.11n (40MHz \ 15Mbps)
The Lowest Channel 03: 2422MHz



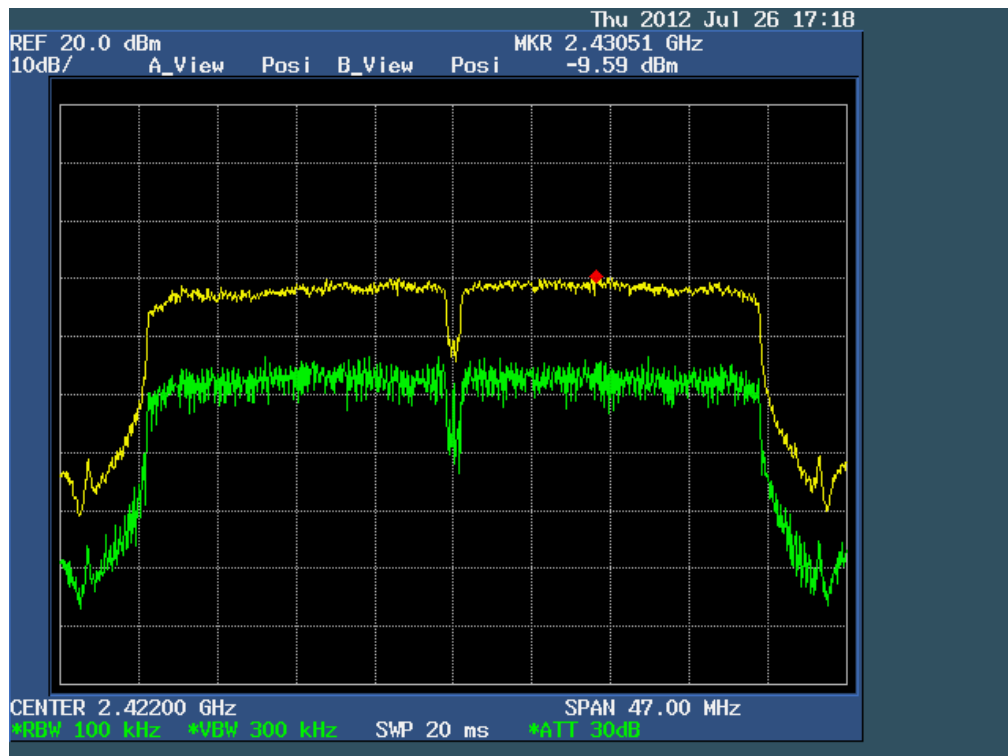
802.11n (40MHz \ 15Mbps)
The Middle Channel 06: 2437MHz



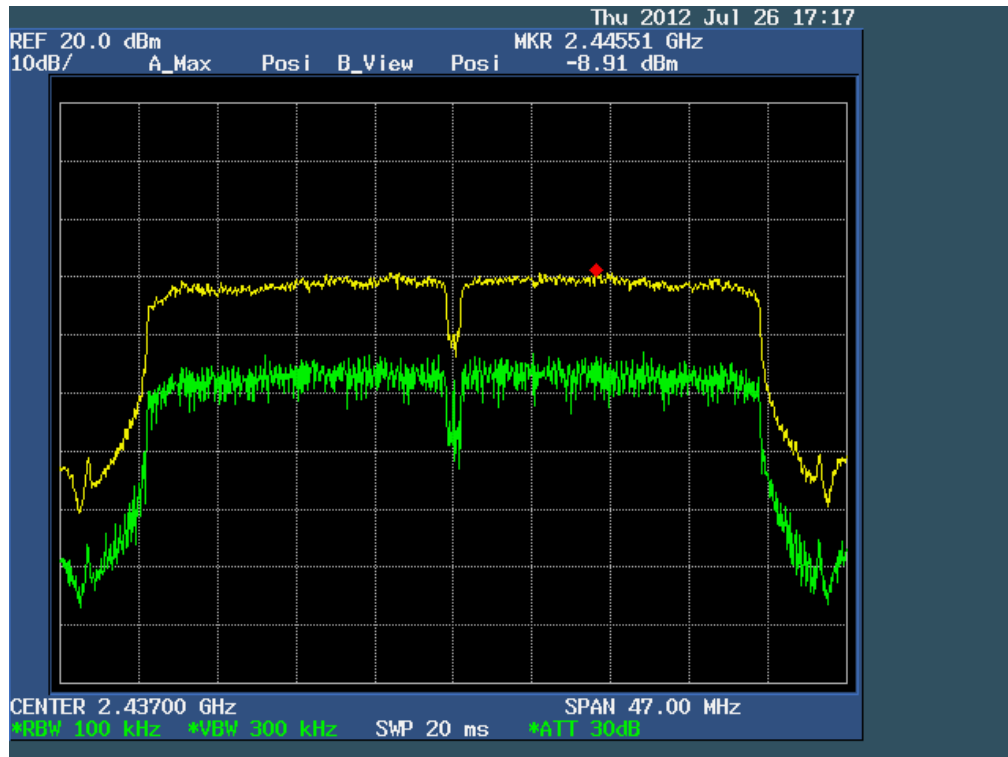
802.11n (40MHz \ 15Mbps)
The High Channel 09: 2452MHz



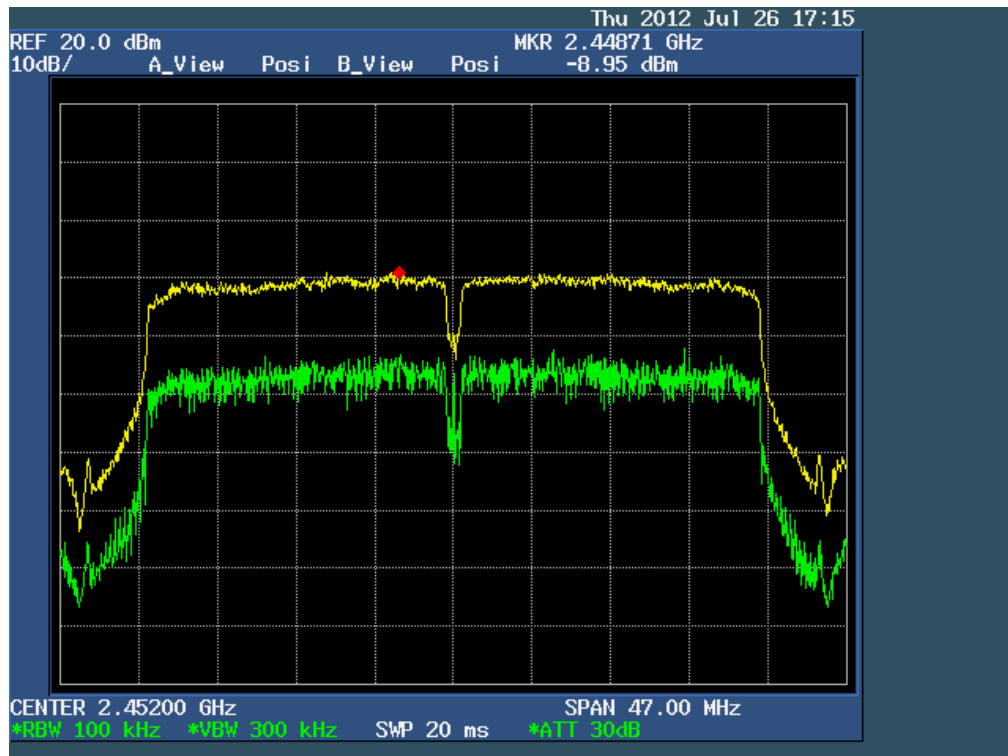
802.11n (40MHz \ 15Mbps)
The Lowest Channel 03: 2422MHz



802.11n (40MHz \ 150Mbps)
The Middle Channel 06: 2437MHz



802.11n (40MHz \ 150Mbps)
The High Channel 09: 2452MHz



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.

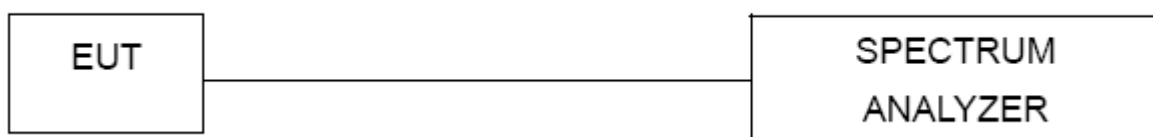
6.6.2 Test procedure

- 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



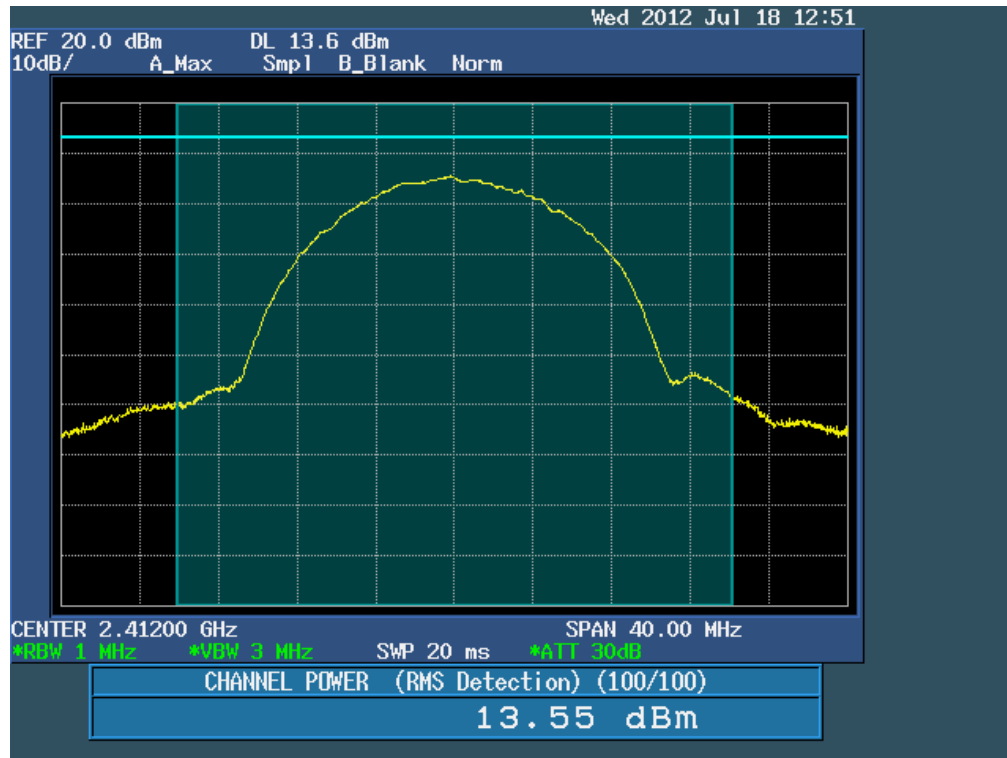
6.6.5 Test results

EUT:	Cloud Wifi TV Dongle	Model Name :	YM-8XXX
Temperature:	22 °C	Relative Humidity:	60%
Pressure:	1010 hPa	Test Voltage :	DC 5.0 V from PC
Test Mode :	TX		
Note:1. All the data rates have be tested and the worst-case as the table below.			
2.According to the section 5.2 of KDB 558074, we use the peak power procedure PK2 to test.			

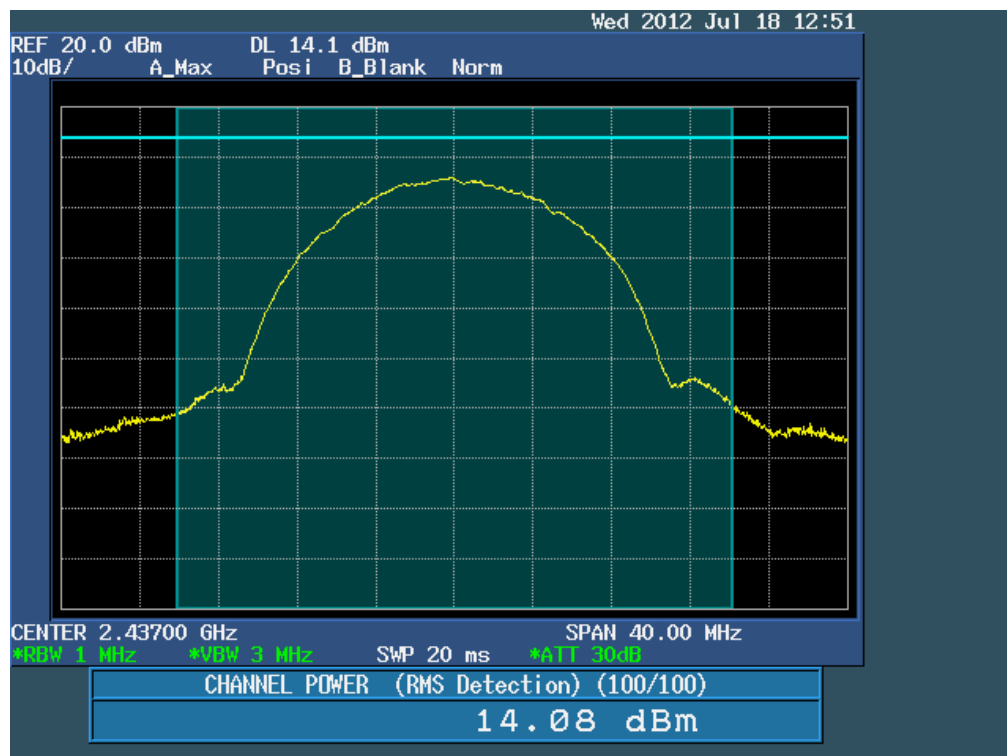
Test Mode	Frequency	Reading Power (dBm)	Limit (dBm)	Result
802.11b Data rate 1Mbps	2412	13.55	30	Pass
	2437	14.08	30	Pass
	2462	14.58	30	Pass
802.11b Data rate 11Mbps	2412	13.73	30	Pass
	2437	14.52	30	Pass
	2462	15.10	30	Pass
802.11g Data rate 6Mbps	2412	13.68	30	Pass
	2437	14.60	30	Pass
	2462	15.14	30	Pass
802.11g Data rate 54Mbps	2412	14.48	30	Pass
	2437	15.28	30	Pass
	2462	15.75	30	Pass
802.11n(20MHz) Data rate 6.5Mbps	2412	13.93	30	Pass
	2437	14.69	30	Pass
	2462	15.22	30	Pass
802.11n(20MHz) Data rate 65Mbps	2412	14.04	30	Pass
	2437	15.01	30	Pass
	2462	15.31	30	Pass
802.11n(20MHz) Data rate 7.2Mbps	2412	14.28	30	Pass
	2437	15.18	30	Pass
	2462	15.75	30	Pass
802.11n(20MHz) Data rate 72.2Mbps	2412	14.01	30	Pass
	2437	14.82	30	Pass
	2462	15.12	30	Pass
802.11n(40MHz) Data rate 13.5Mbps	2422	13.57	30	Pass
	2437	13.92	30	Pass

	2452	13.52	30	Pass
802.11n(40MHz) Data rate 135Mbps	2422	12.61	30	Pass
	2437	14.47	30	Pass
	2452	13.46	30	Pass
802.11n(40MHz) Data rate 15Mbps	2422	13.07	30	Pass
	2437	13.55	30	Pass
	2452	13.97	30	Pass
802.11n(40MHz) Data rate 150Mbps	2422	13.33	30	Pass
	2437	11.99	30	Pass
	2452	14.12	30	Pass

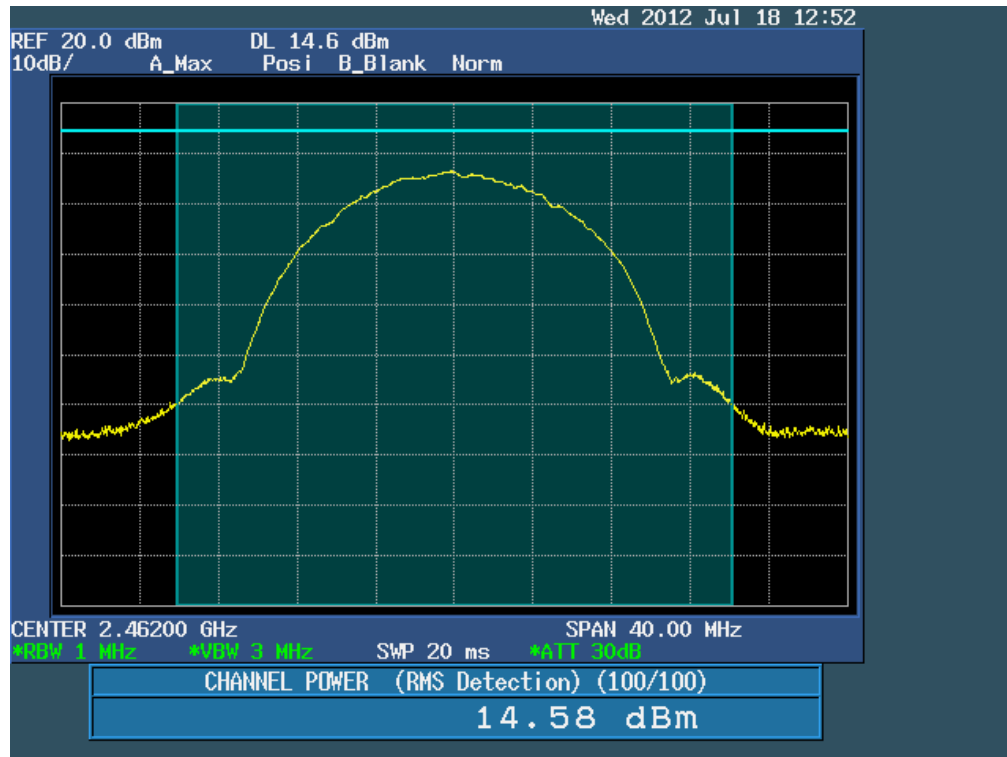
802.11b (1Mbps)
The Lowest Channel 01: 2412MHz



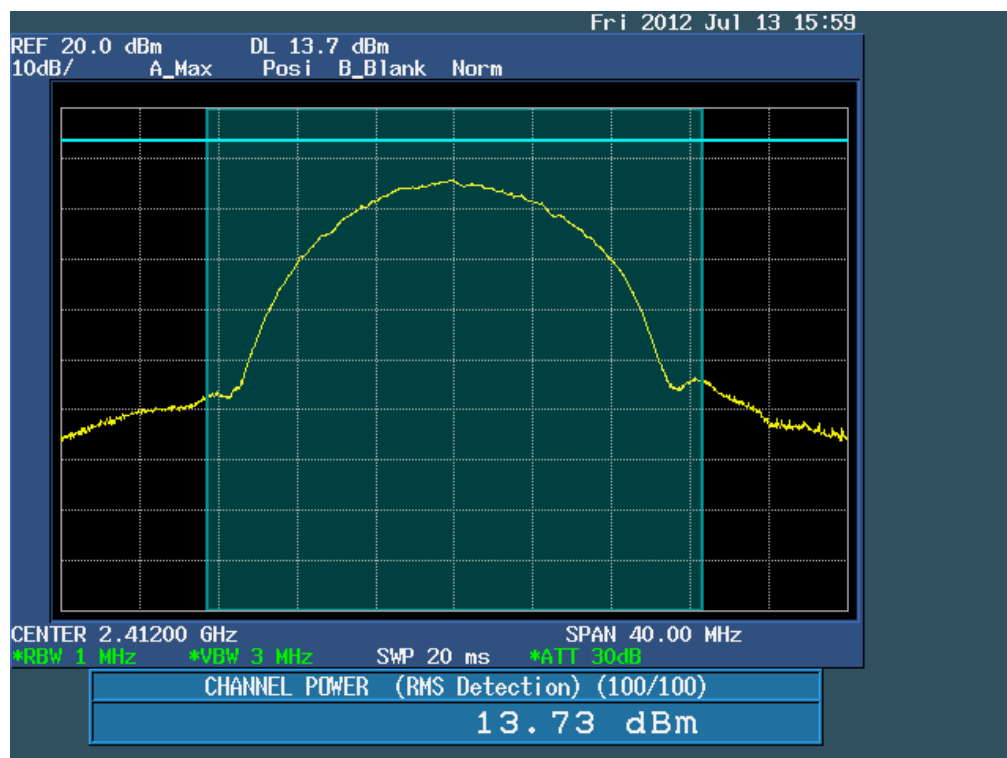
802.11b (1Mbps)
The Middle Channel 06: 2437MHz



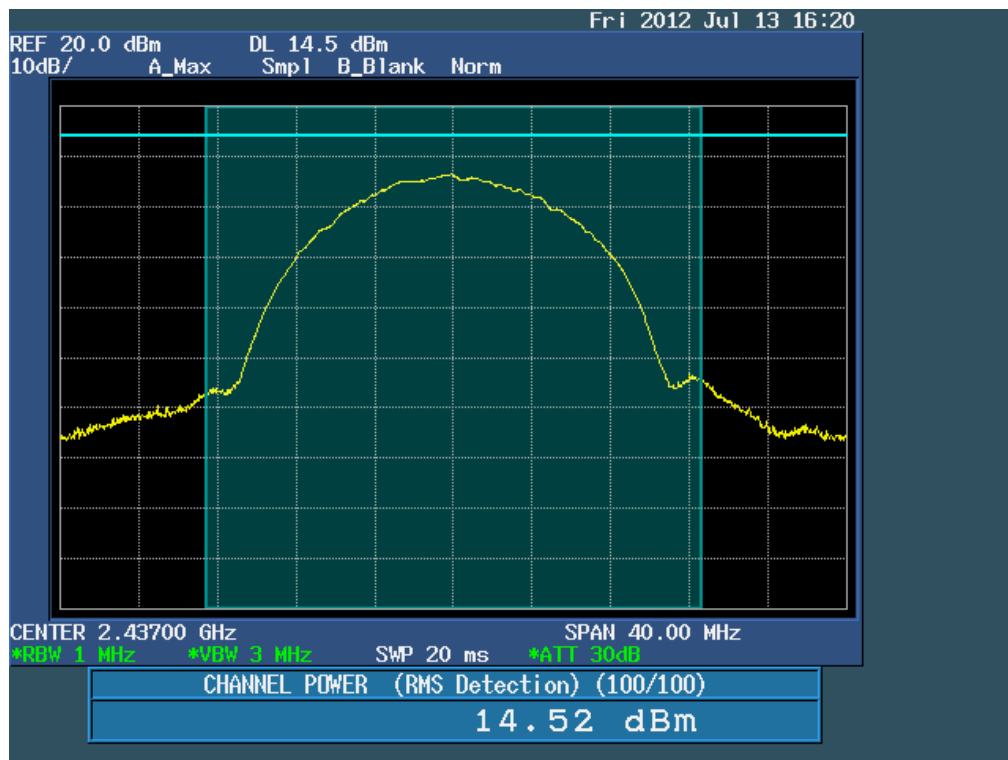
802.11b (1Mbps)
The High Channel 11: 2462MHz



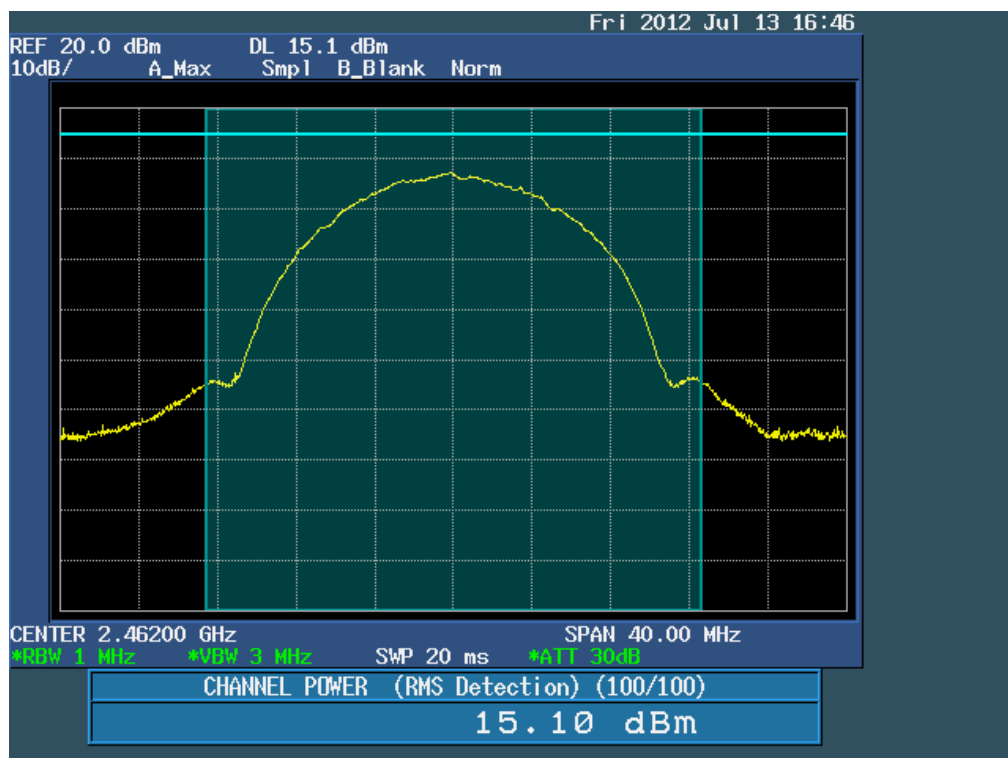
802.11b (11Mbps)
The Lowest Channel 01: 2412MHz



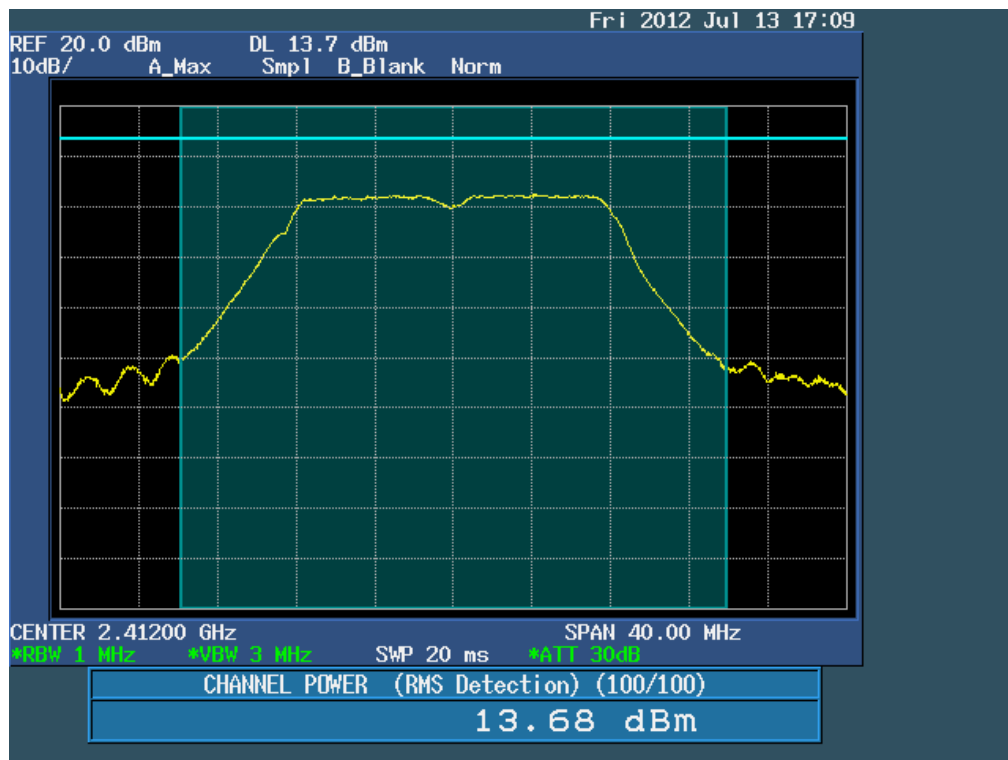
802.11b (11Mbps)
The Middle Channel 06: 2437MHz



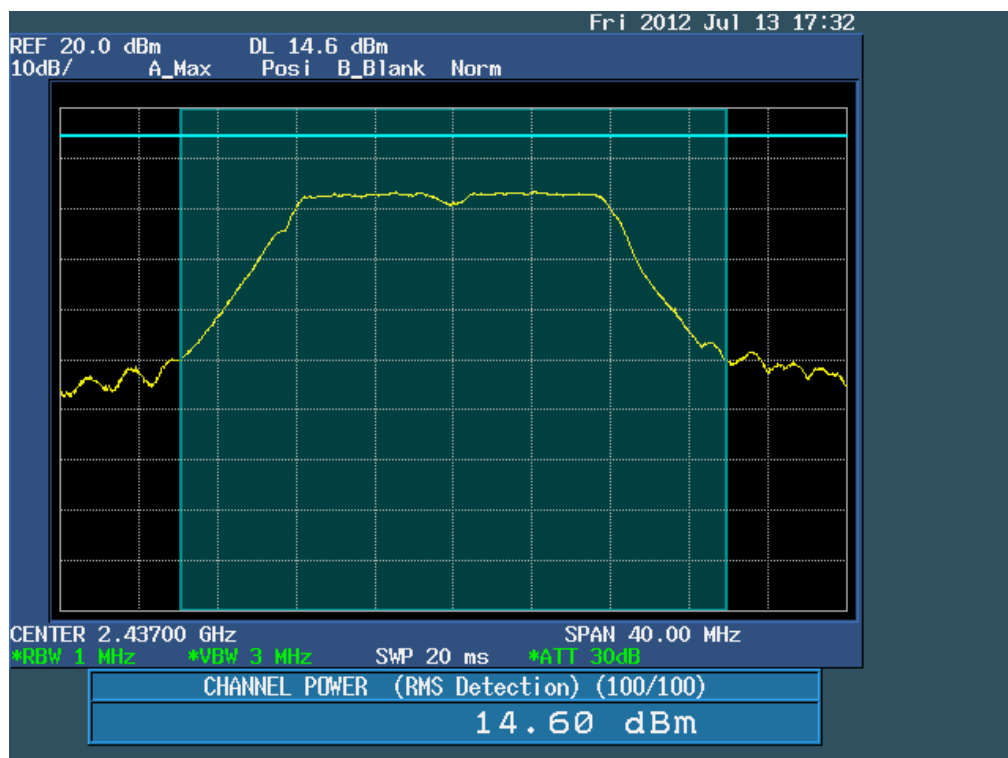
802.11b (11Mbps)
The High Channel 11: 2462MHz



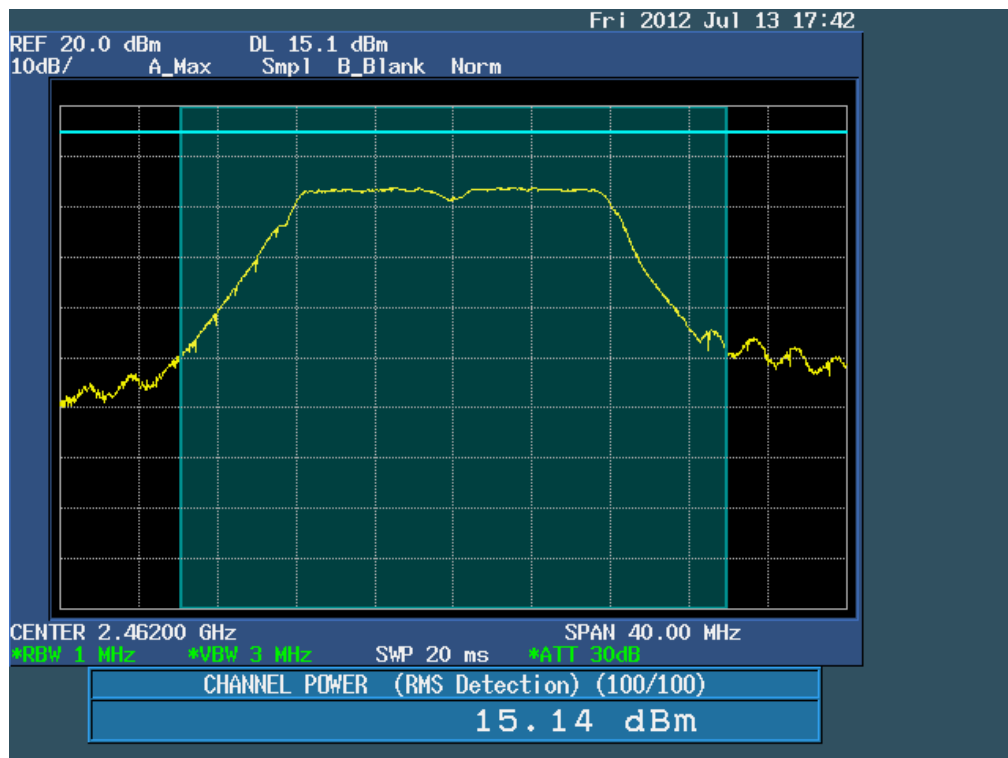
802.11g (6Mbps)
The Lowest Channel 01: 2412MHz



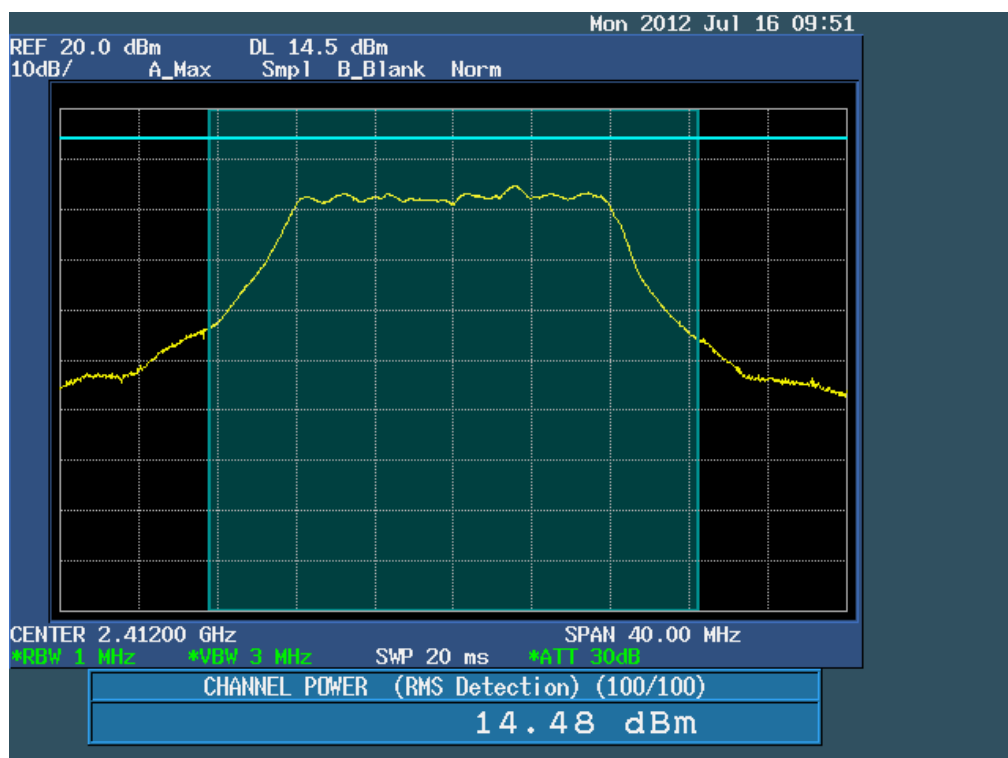
802.11g (6Mbps)
The Middle Channel 06: 2437MHz



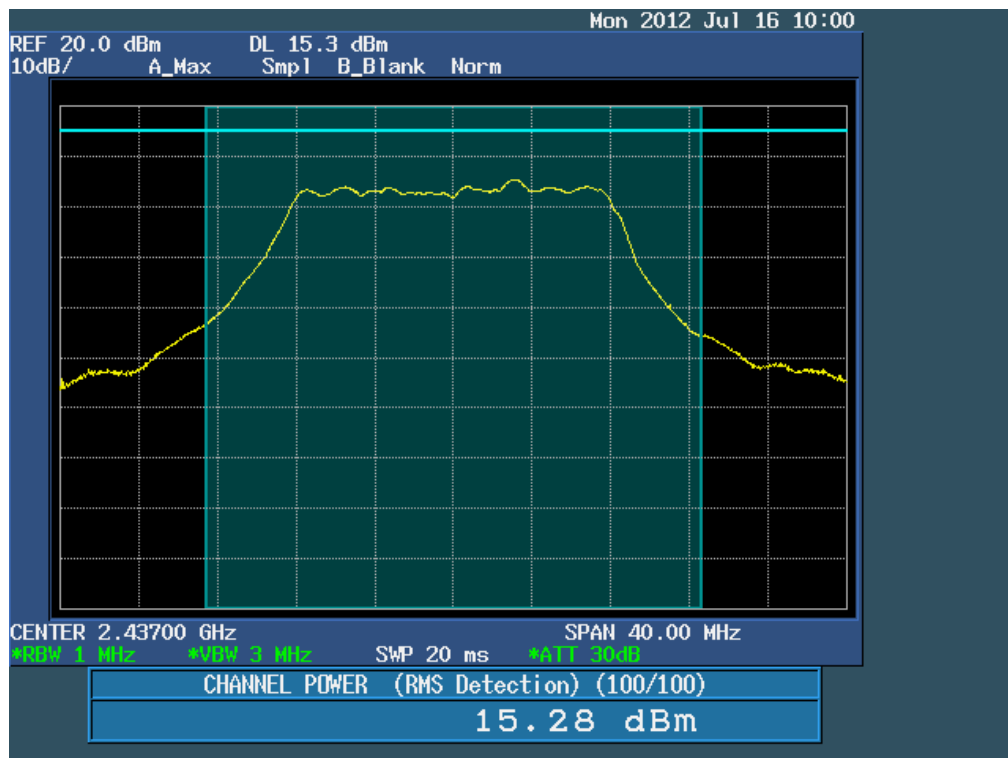
802.11g (6Mbps)
The High Channel 11: 2462MHz



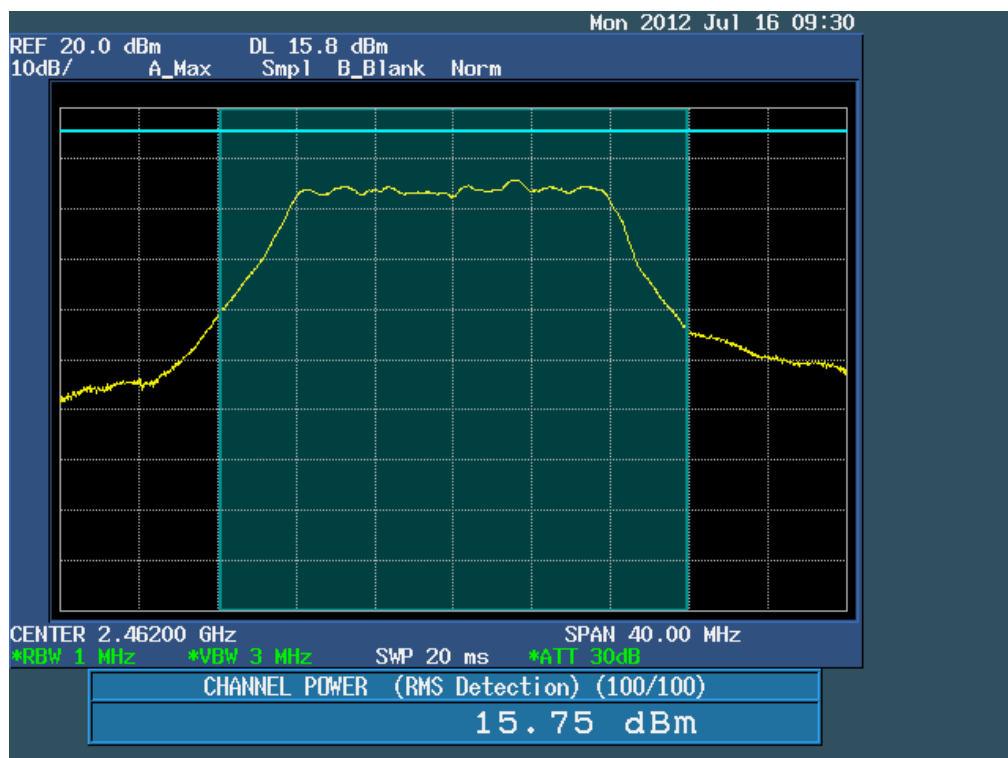
802.11g (54Mbps)
The Lowest Channel 01: 2412MHz



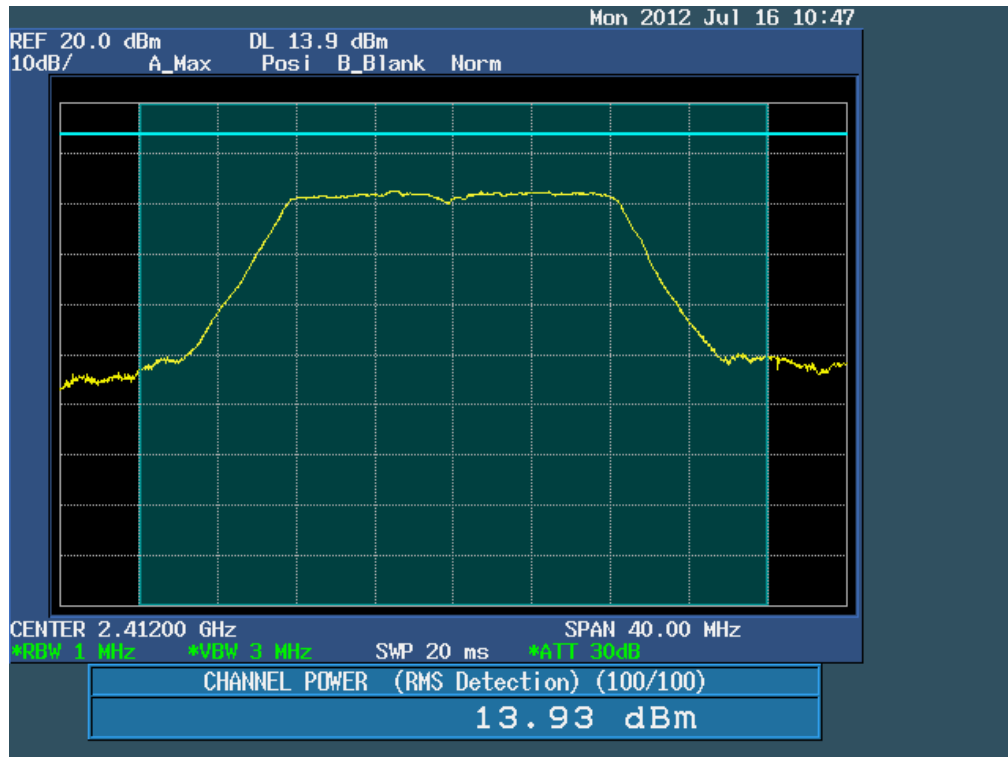
802.11g (54Mbps)
The Middle Channel 06: 2437MHz



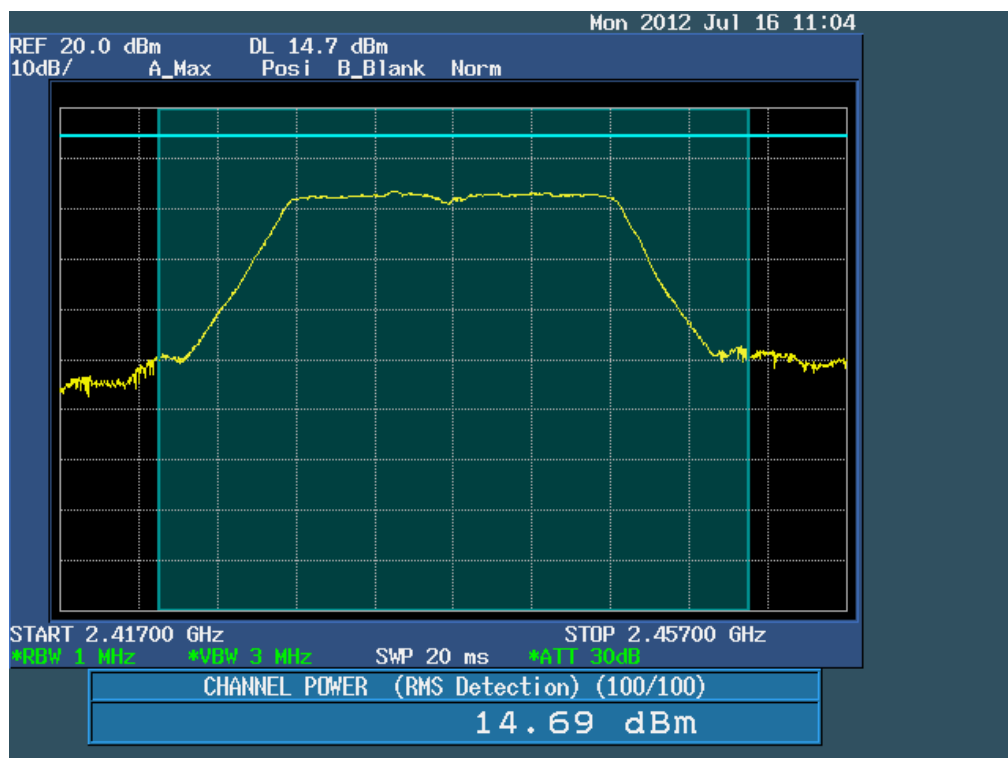
802.11g (54Mbps)
The High Channel 11: 2462MHz



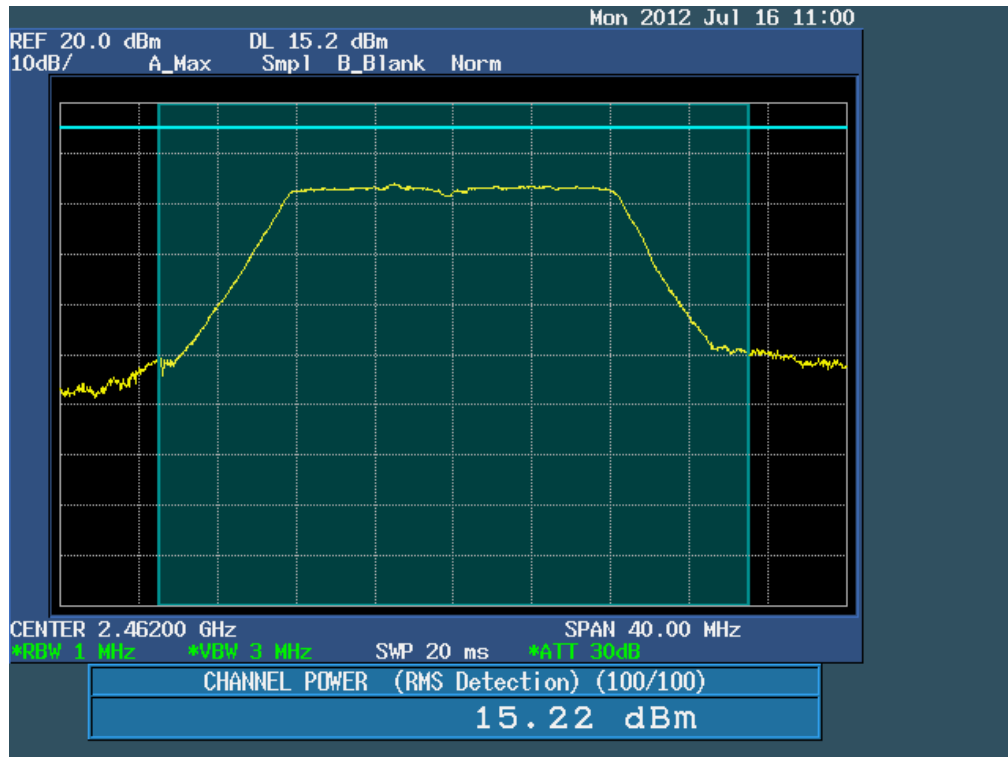
802.11n (20MHz \ 6.5Mbps)
The Lowest Channel 01: 2412MHz



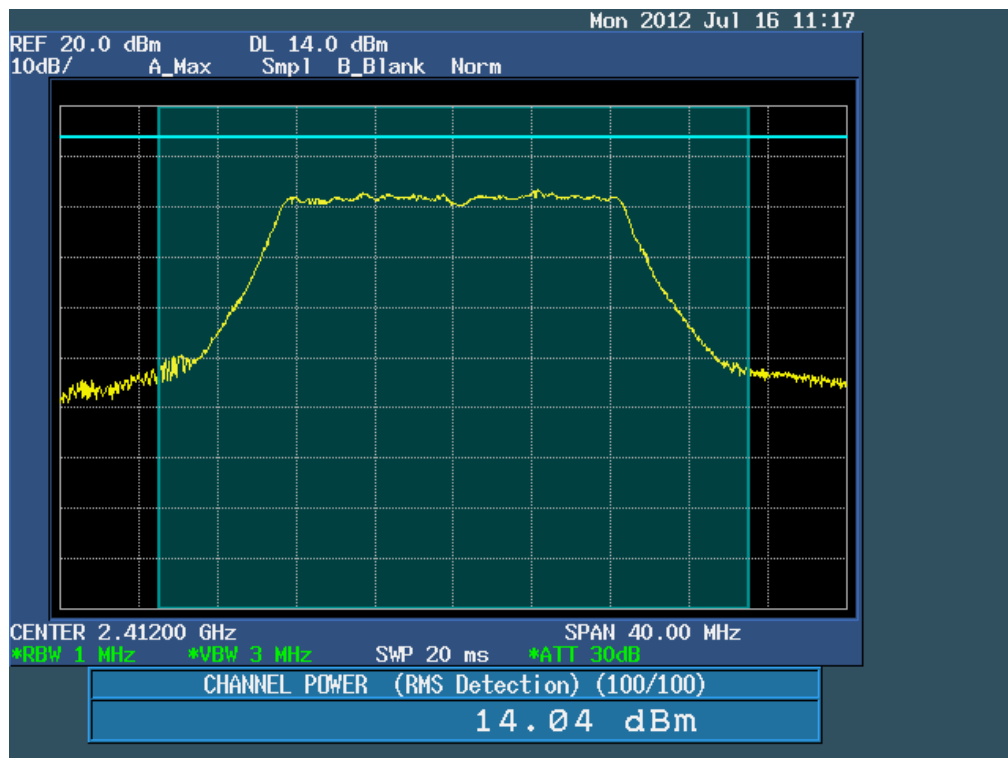
802.11n (20MHz \ 6.5Mbps)
The Middle Channel 06: 2437MHz



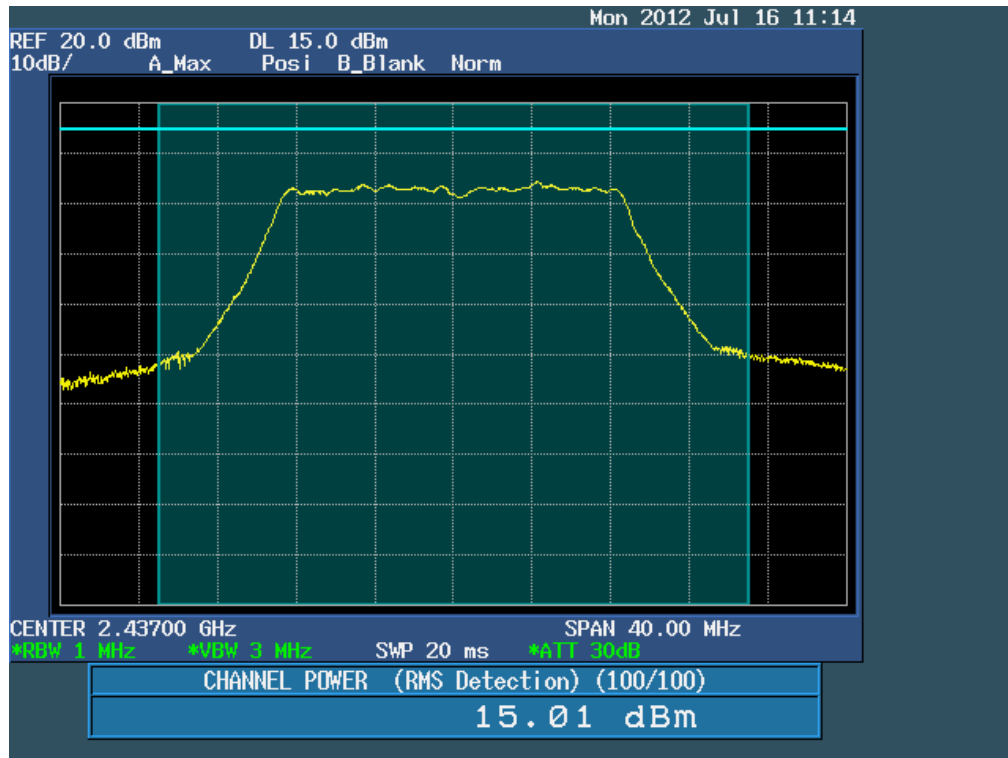
802.11n (20MHz \ 6.5Mbps)
The High Channel 11: 2462MHz



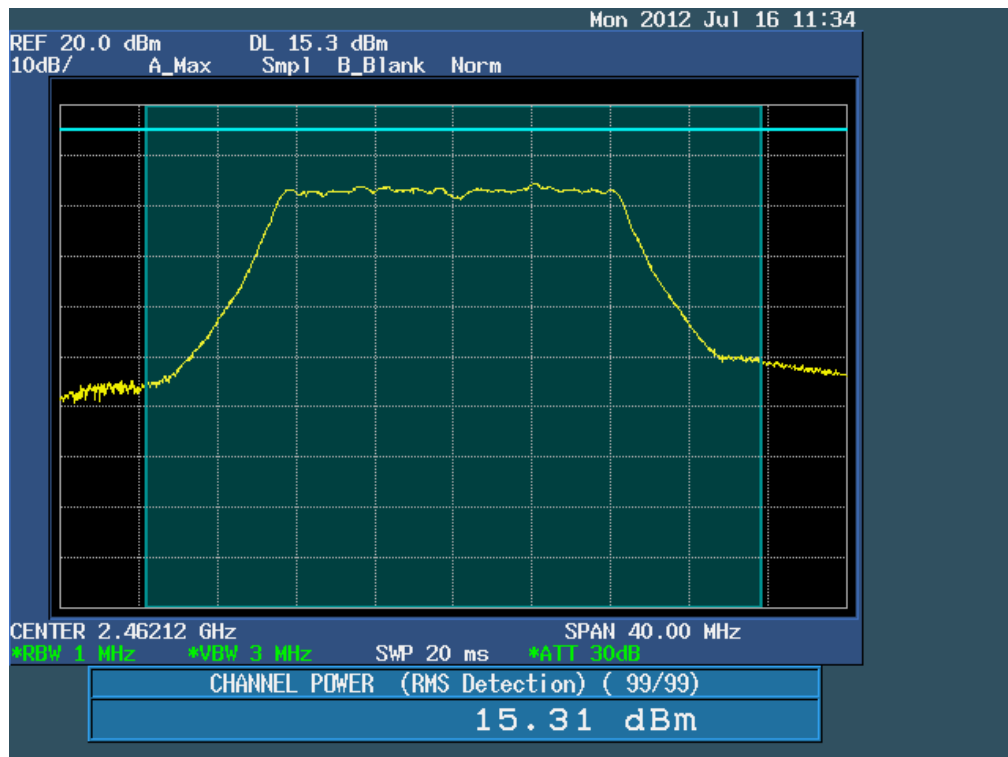
802.11n (20MHz \ 6.5Mbps)
The Lowest Channel 01: 2412MHz



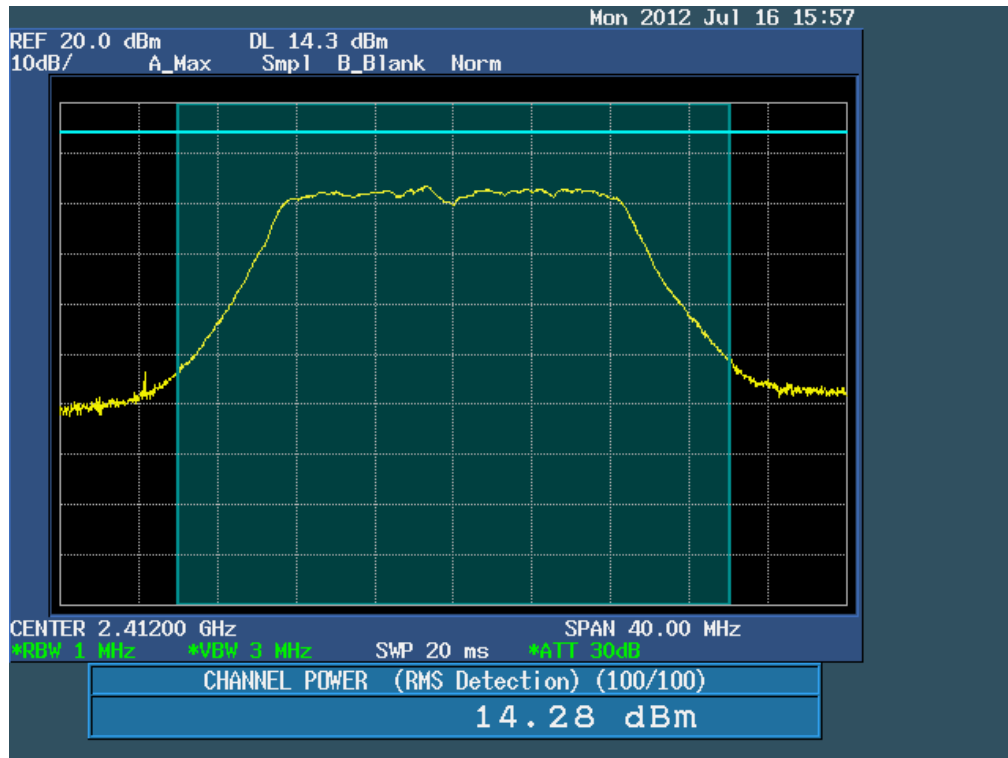
802.11n (20MHz \ 65Mbps)
The Middle Channel 06: 2437MHz



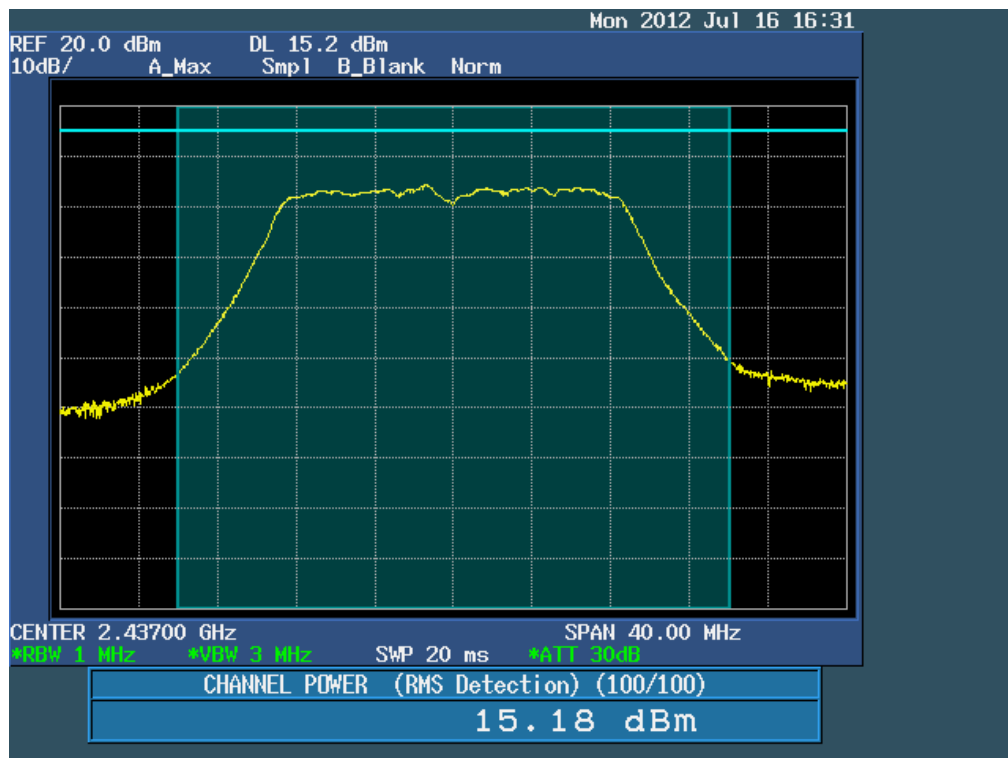
802.11n (20MHz \ 65Mbps)
The High Channel 11: 2462MHz



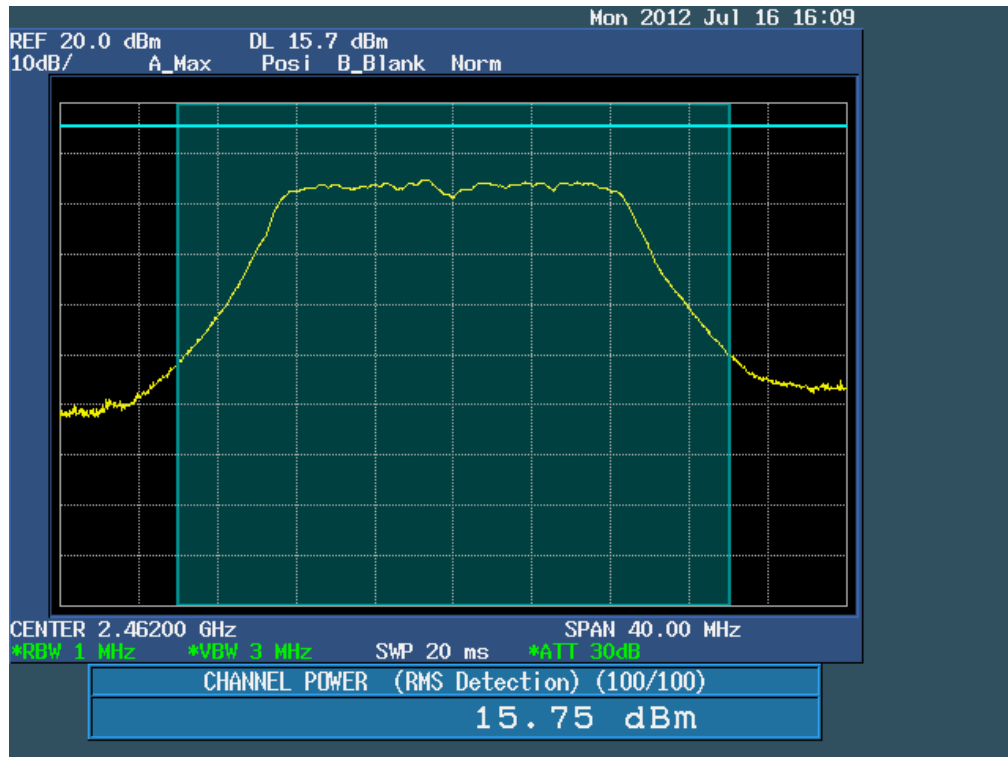
802.11n (20MHz \ 7.2Mbps)
The Lowest Channel 01: 2412MHz



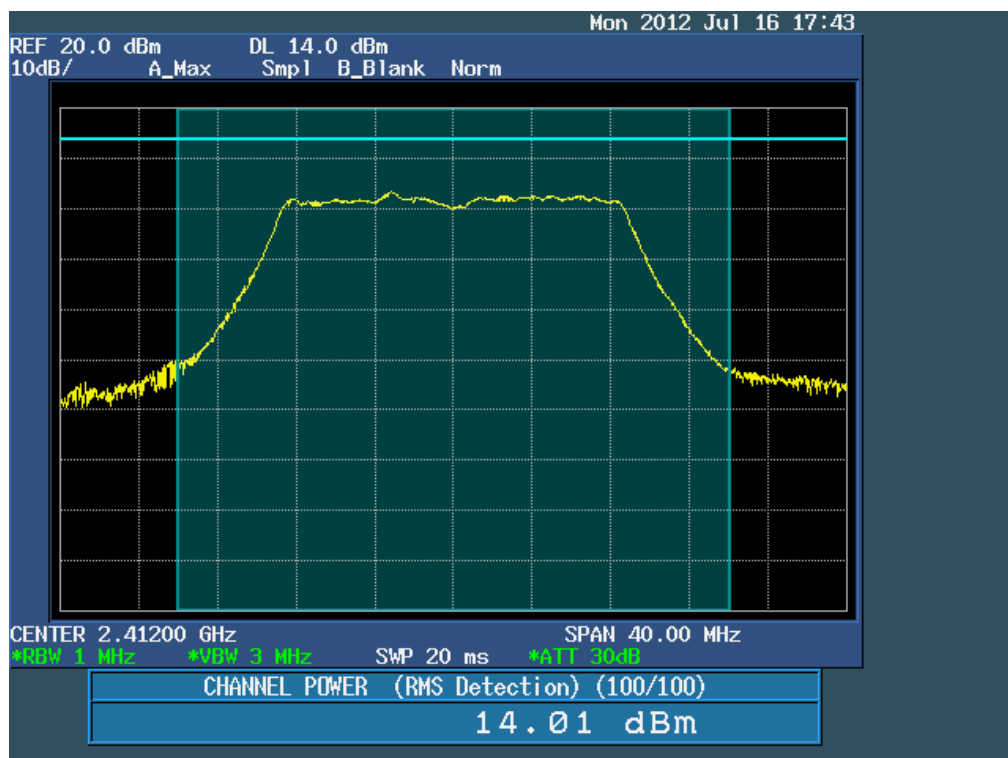
802.11n (20MHz \ 7.2Mbps)
The Middle Channel 06: 2437MHz



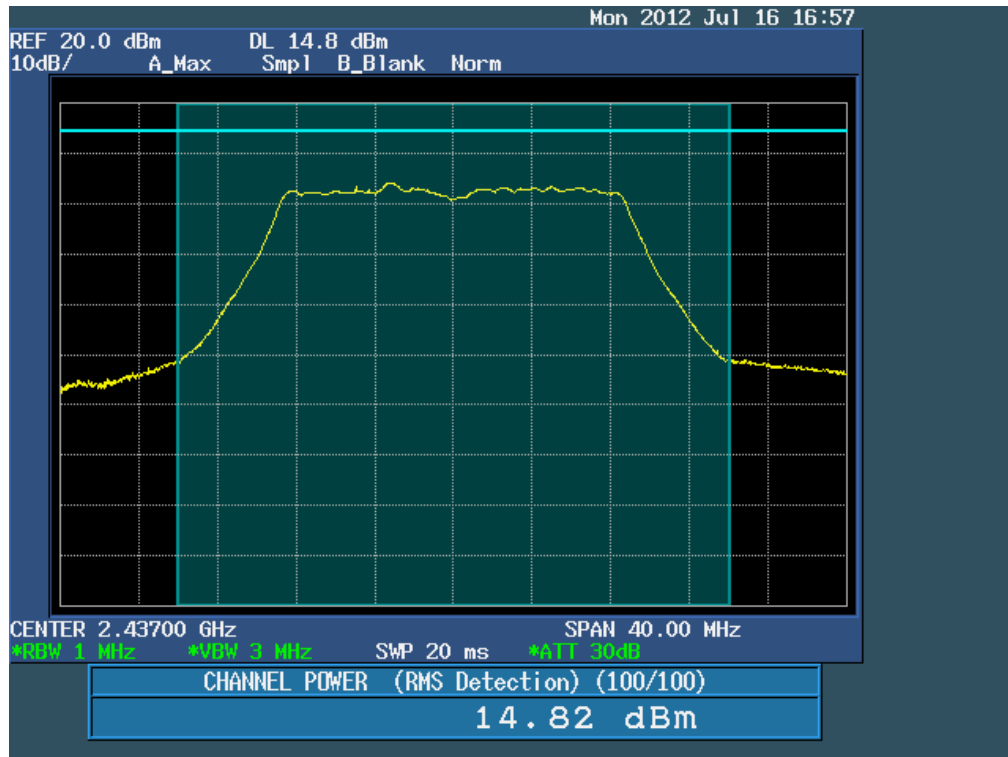
802.11n (20MHz \ 7.2Mbps)
The High Channel 11: 2462MHz



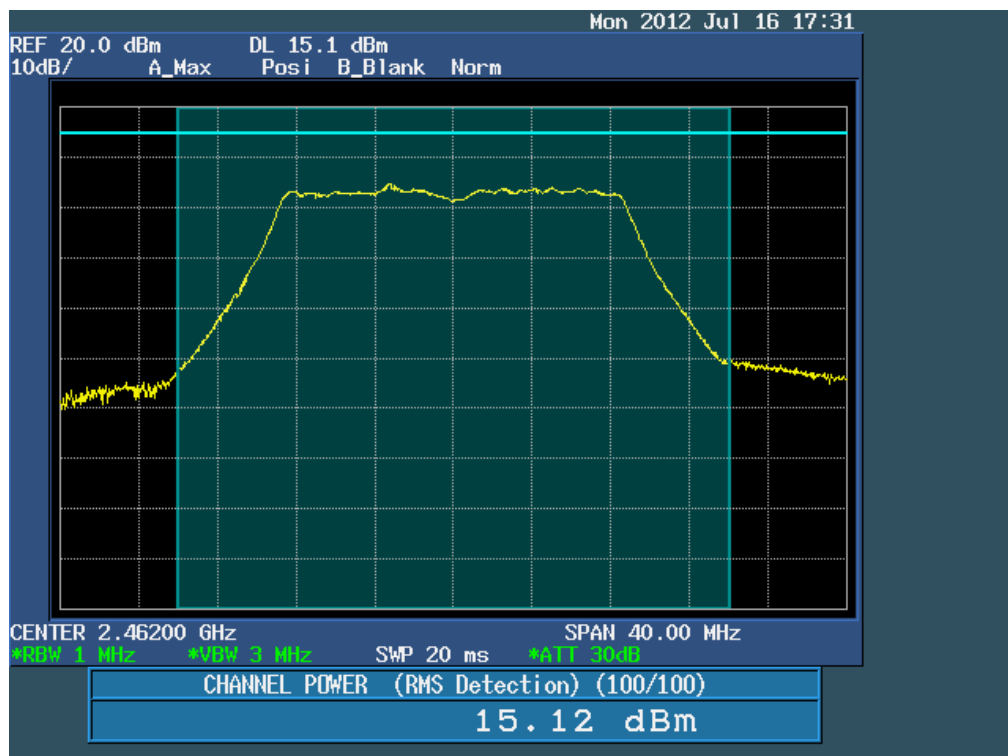
802.11n (20MHz \ 72.2Mbps)
The Lowest Channel 01: 2412MHz



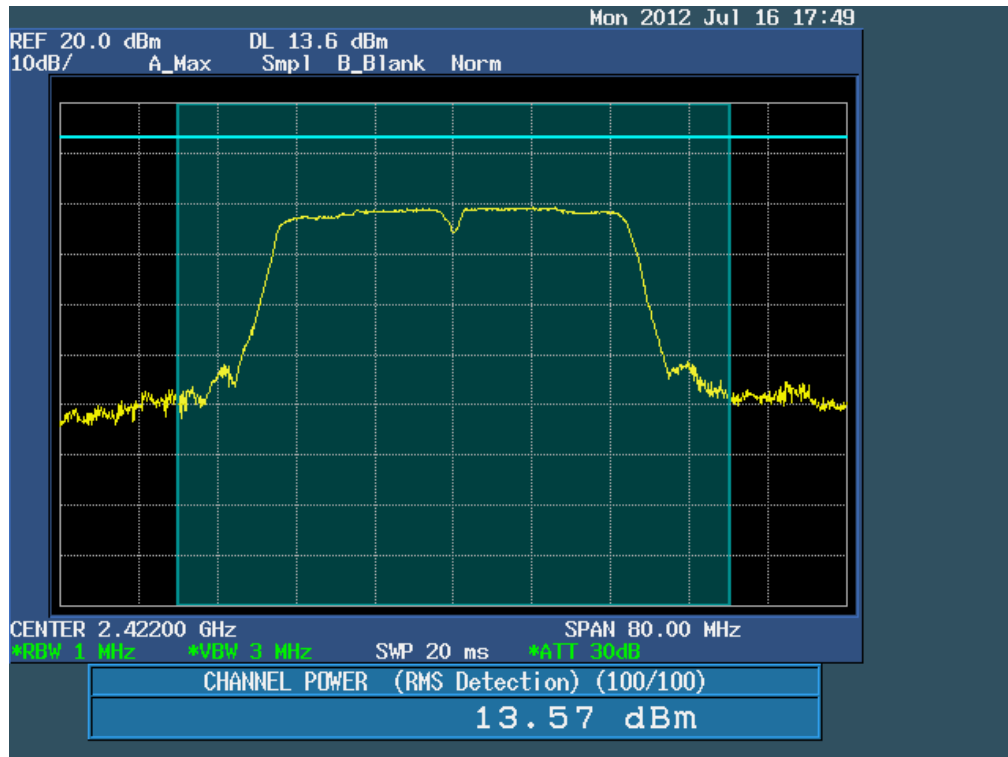
802.11n (20MHz \ 72.2Mbps)
The Middle Channel 06: 2437MHz



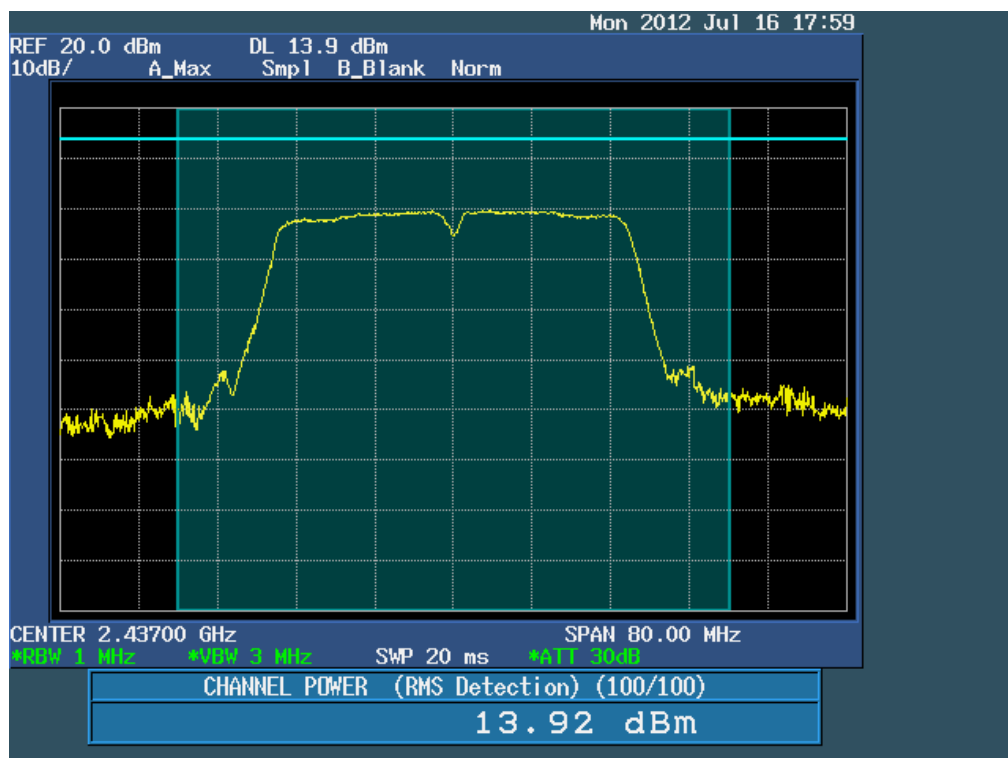
802.11n (20MHz \ 72.2Mbps)
The High Channel 11: 2462MHz



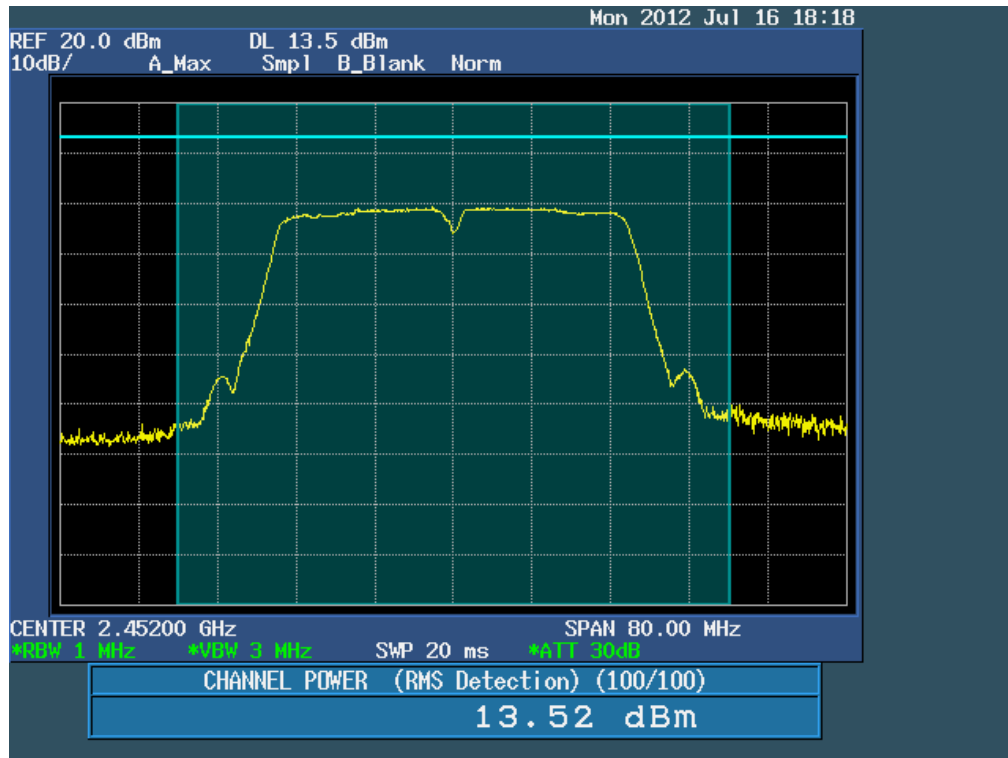
802.11n (40MHz \ 13.5Mbps)
The Lowest Channel 03: 2422MHz



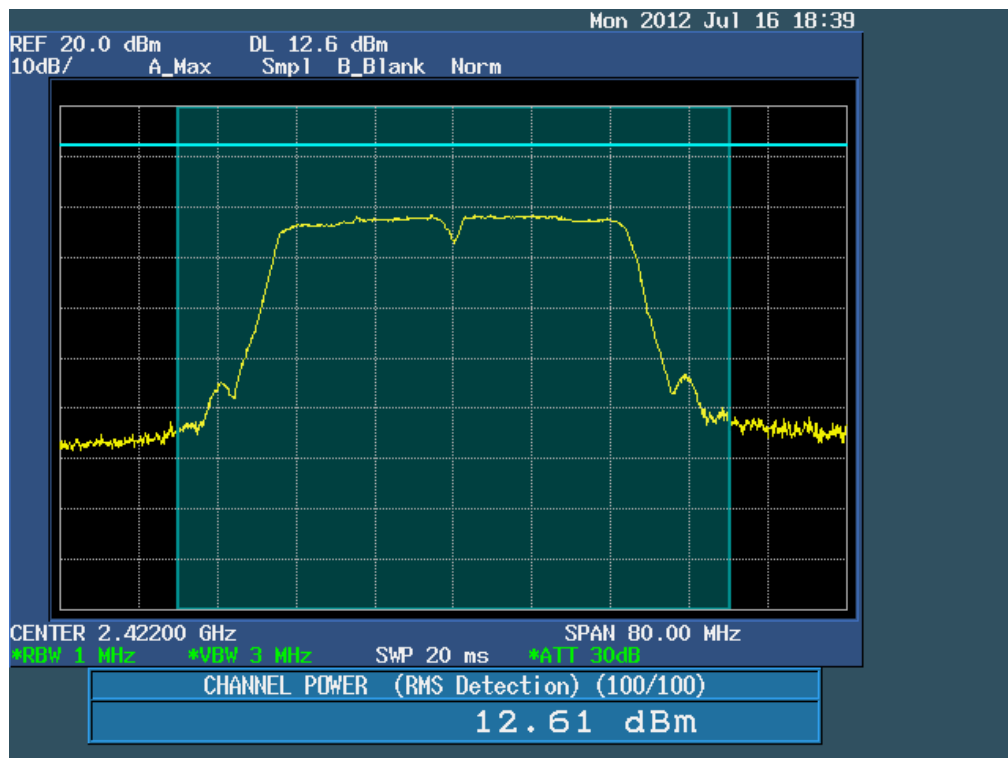
802.11n (40MHz \ 13.5Mbps)
The Middle Channel 06: 2437MHz



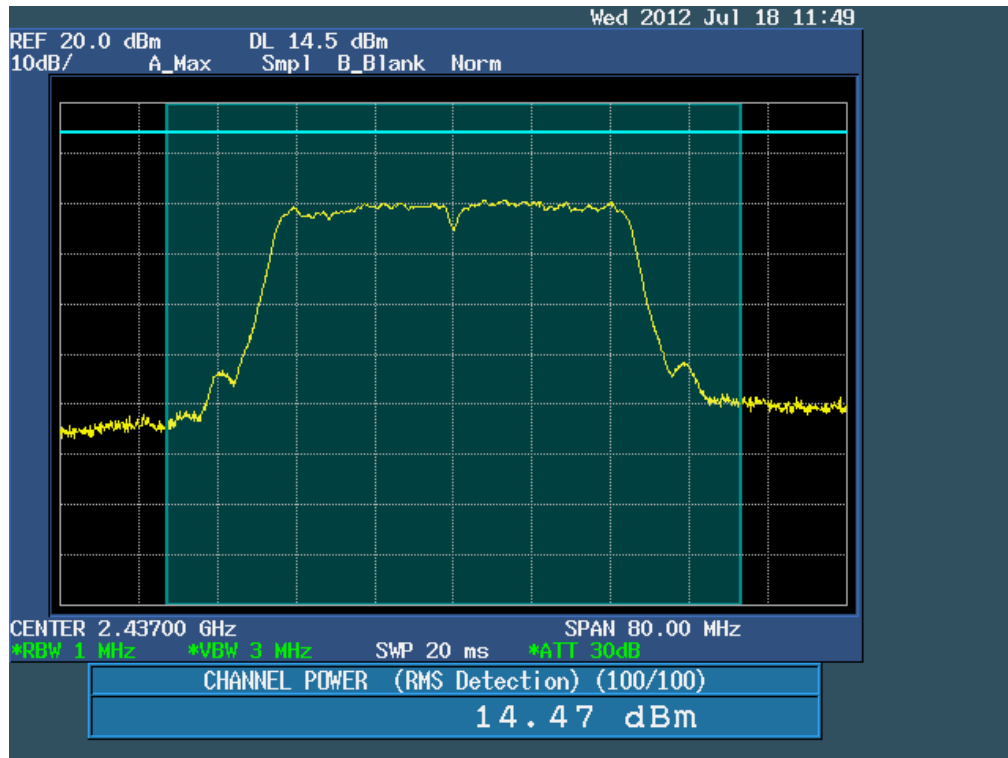
802.11n (40MHz \ 13.5Mbps)
The High Channel 09: 2452MHz



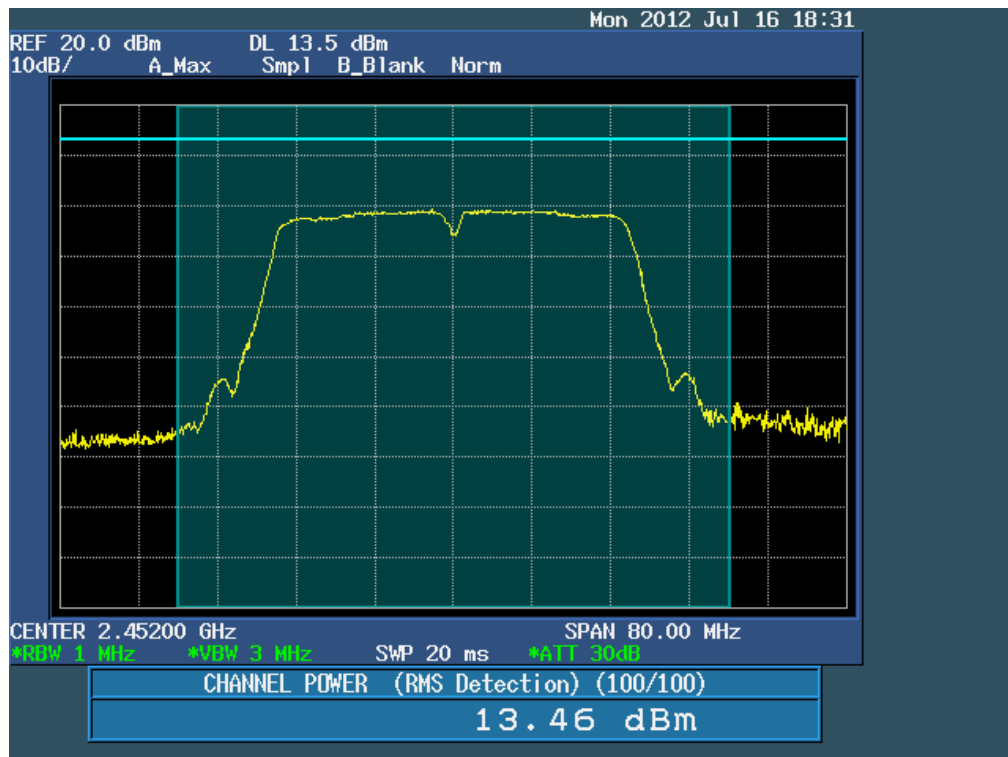
802.11n (40MHz \ 135Mbps)
The Lowest Channel 03: 2422MHz



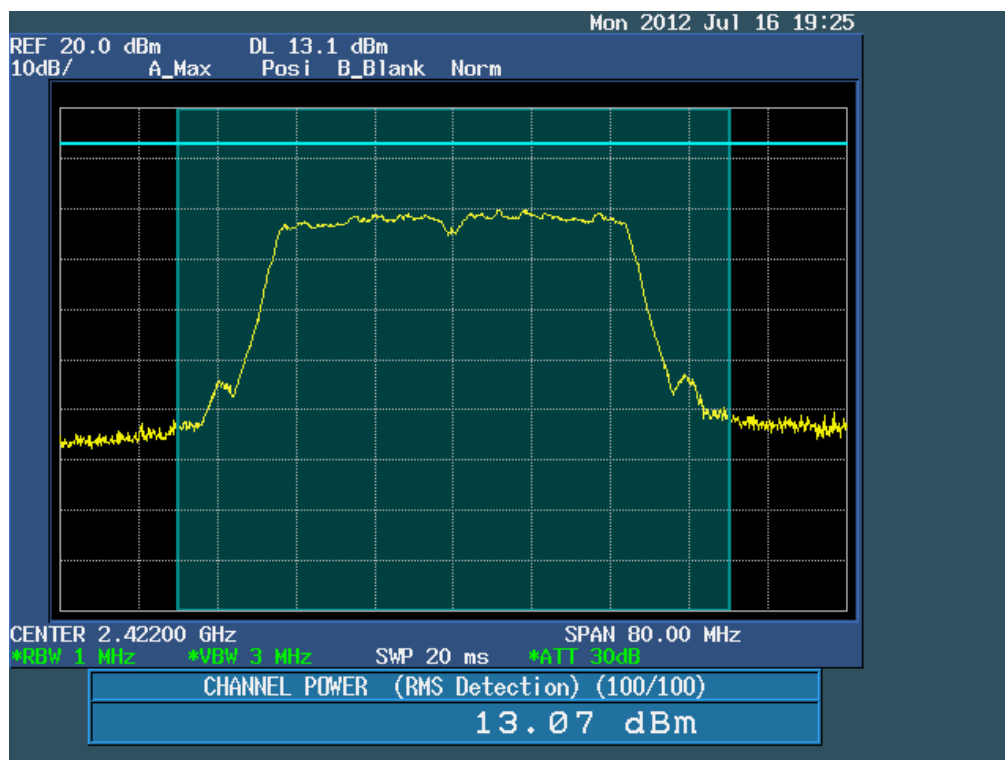
802.11n (40MHz \ 135Mbps)
The Middle Channel 06: 2437MHz



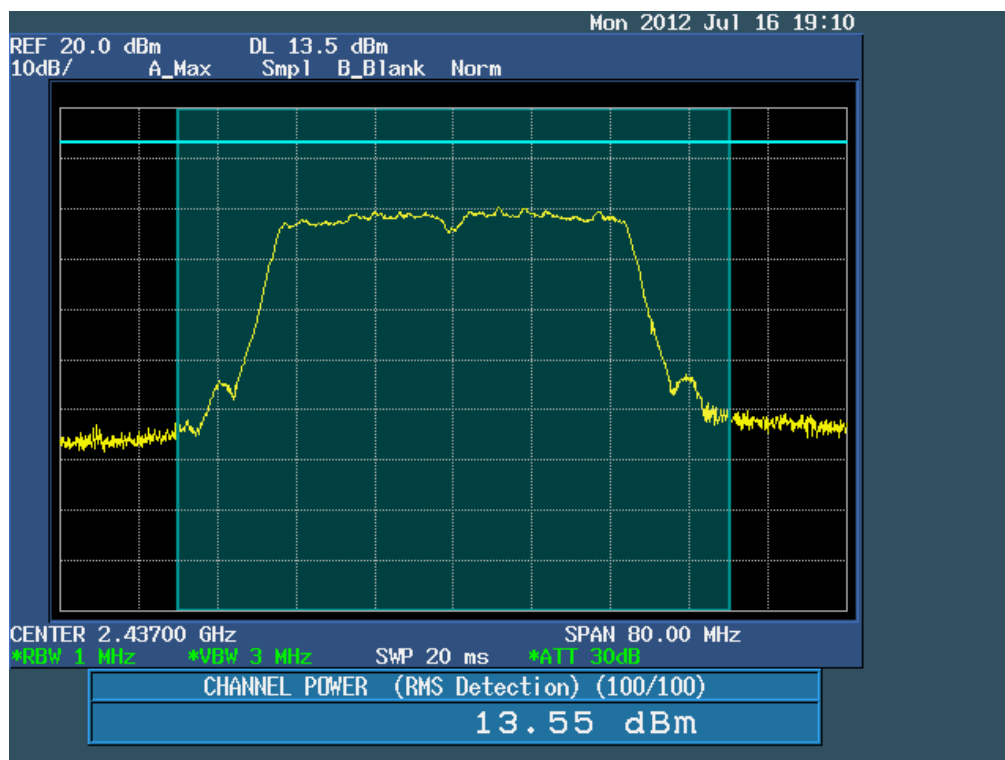
802.11n (40MHz \ 135Mbps)
The High Channel 09: 2452MHz



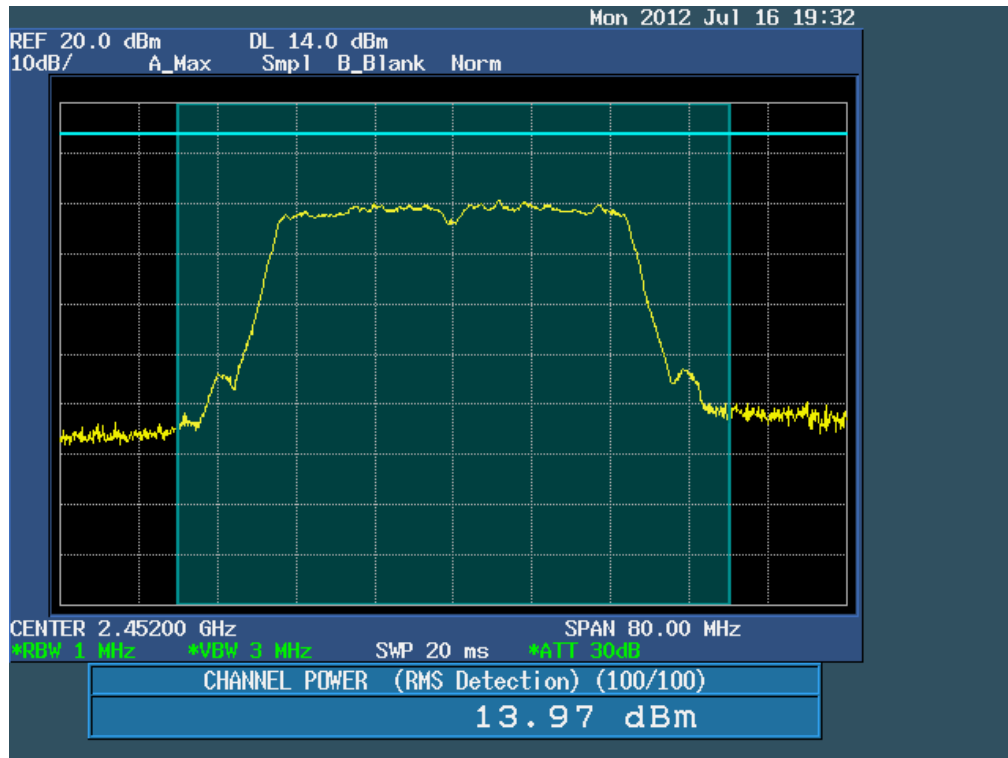
802.11n (40MHz \ 15Mbps)
The Lowest Channel 03: 2422MHz



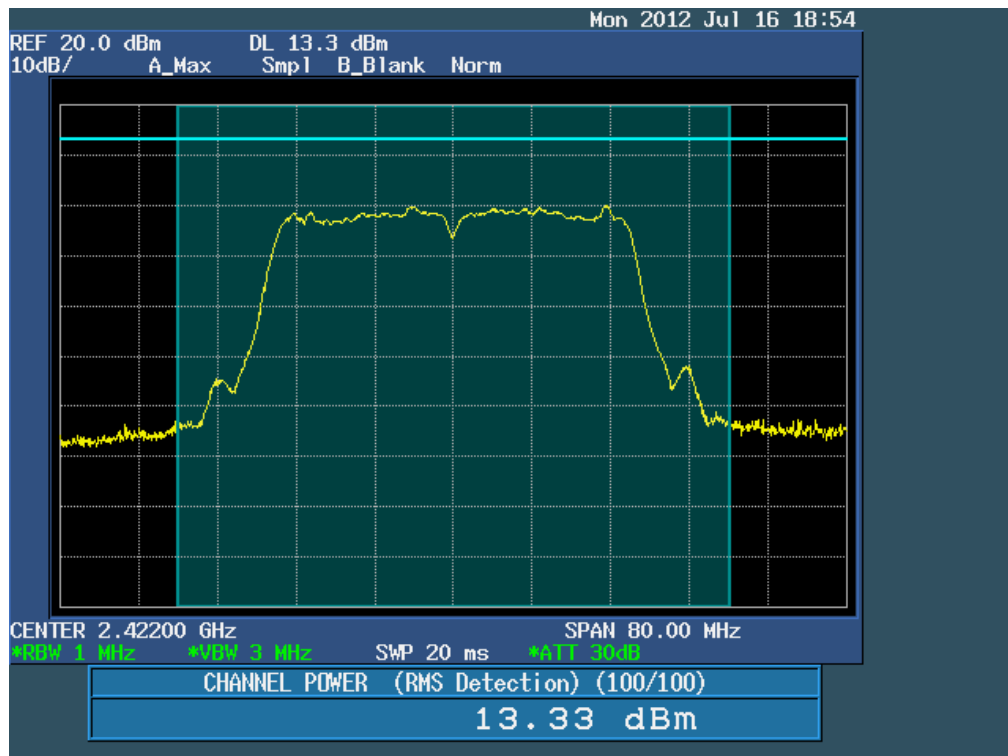
802.11n (40MHz \ 15Mbps)
The Middle Channel 06: 2437MHz



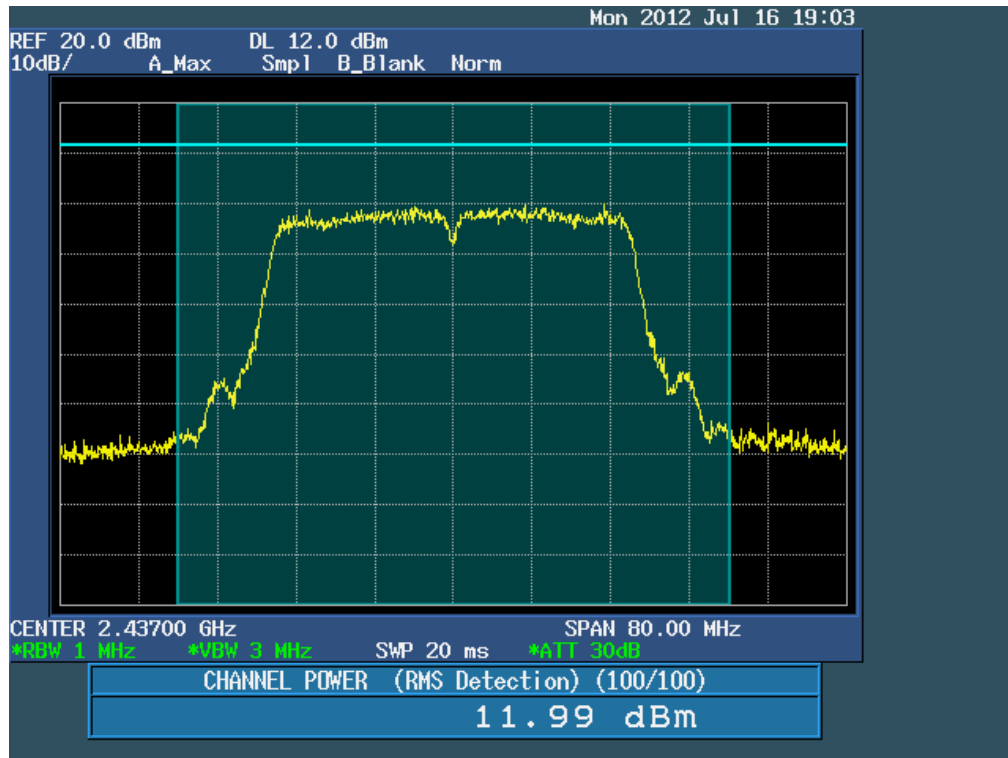
802.11n (40MHz \ 15Mbps)
The High Channel 09: 2452MHz



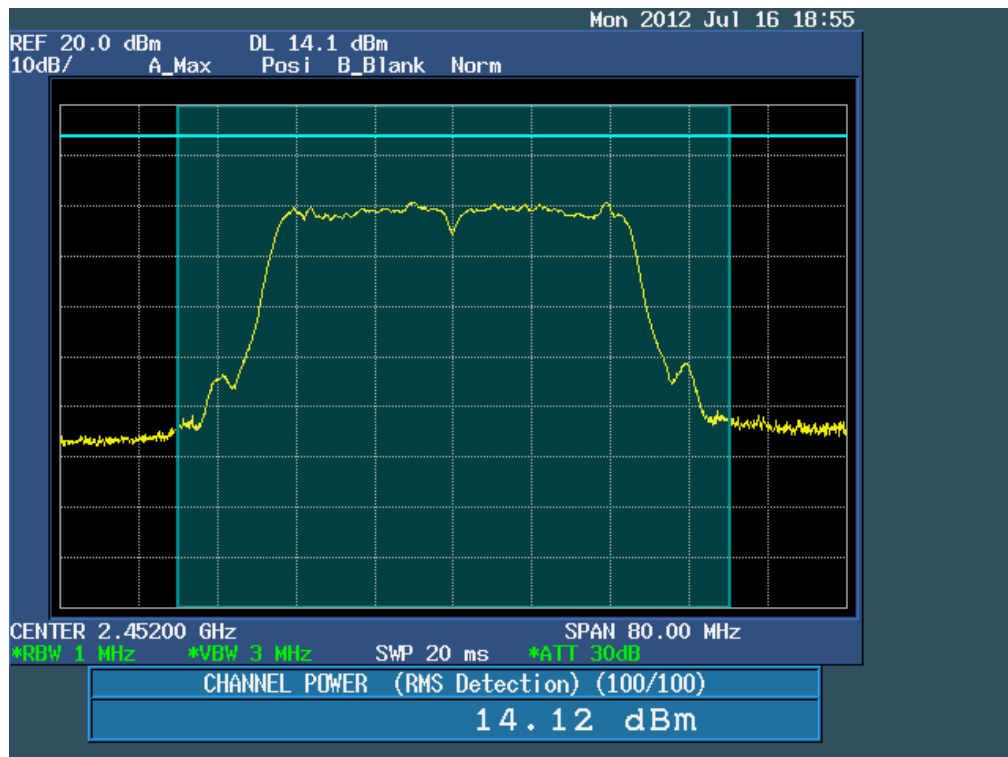
802.11n (40MHz \ 15Mbps)
The Lowest Channel 03: 2422MHz



802.11n (40MHz \ 150Mbps)
The Middle Channel 06: 2437MHz



802.11n (40MHz \ 150Mbps)
The High Channel 09: 2452MHz



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)).

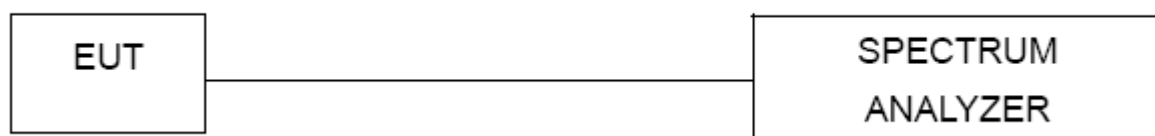
6.7.2 Test procedure

- 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 $\geq$ RBW, Sweep time=Auto, Detector Function=Peak.

6.7.3 Deviation from standard

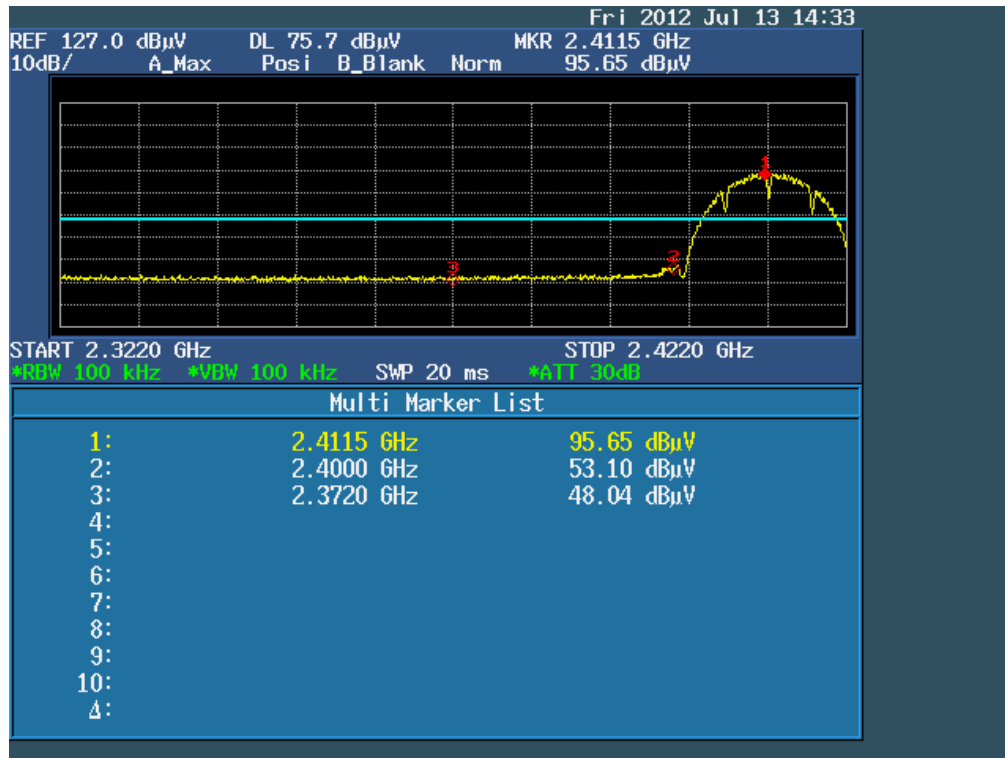
No deviation.

6.7.4 Test setup



6.7.5 Test results

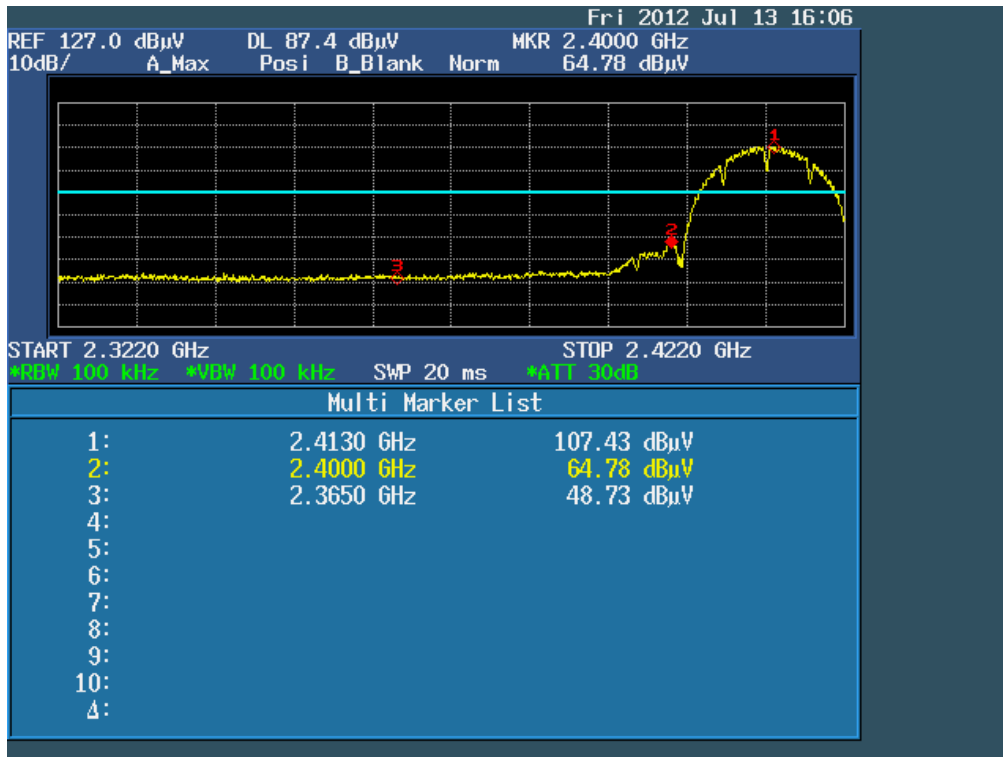
802.11b (1Mbps) The Lowest Channel 01: 2412MHz



802.11b (1Mbps) The High Channel 11: 2462MHz



802.11b (11Mbps)
The Lowest Channel 01: 2412MHz



802.11b (11Mbps)
The High Channel 11: 2462MHz



802.11g (6Mbps)
The Lowest Channel 01: 2412MHz



802.11g (6Mbps)
The High Channel 11: 2462MHz



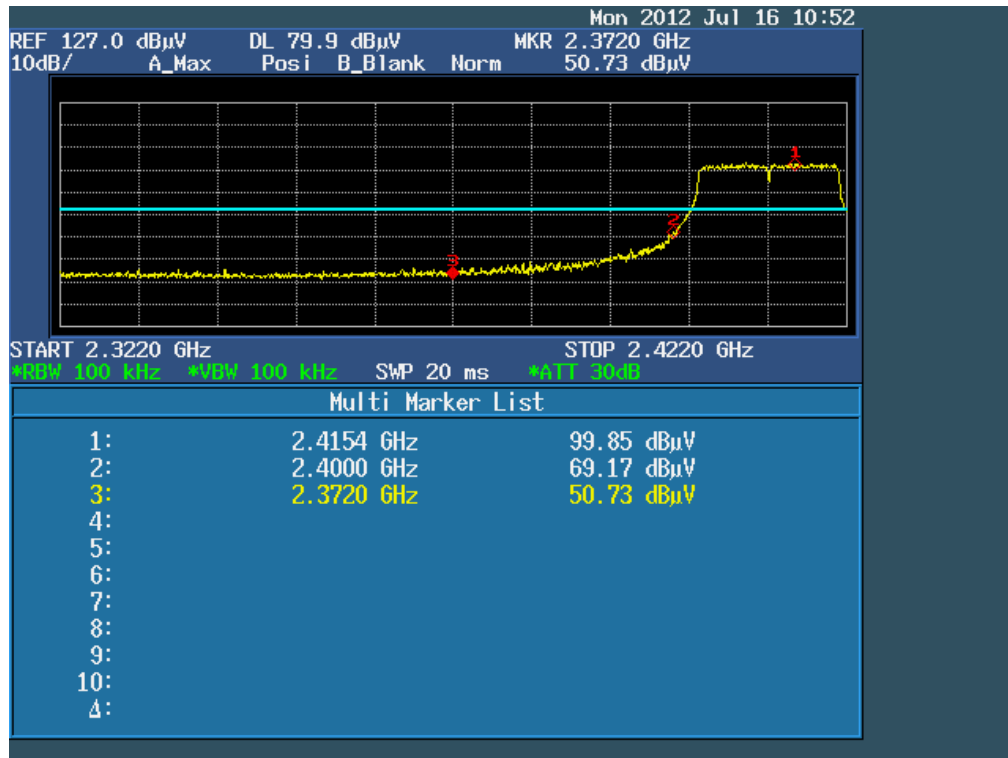
802.11g (54Mbps)
The Lowest Channel 01: 2412MHz



802.11g (54Mbps)
The High Channel 11: 2462MHz



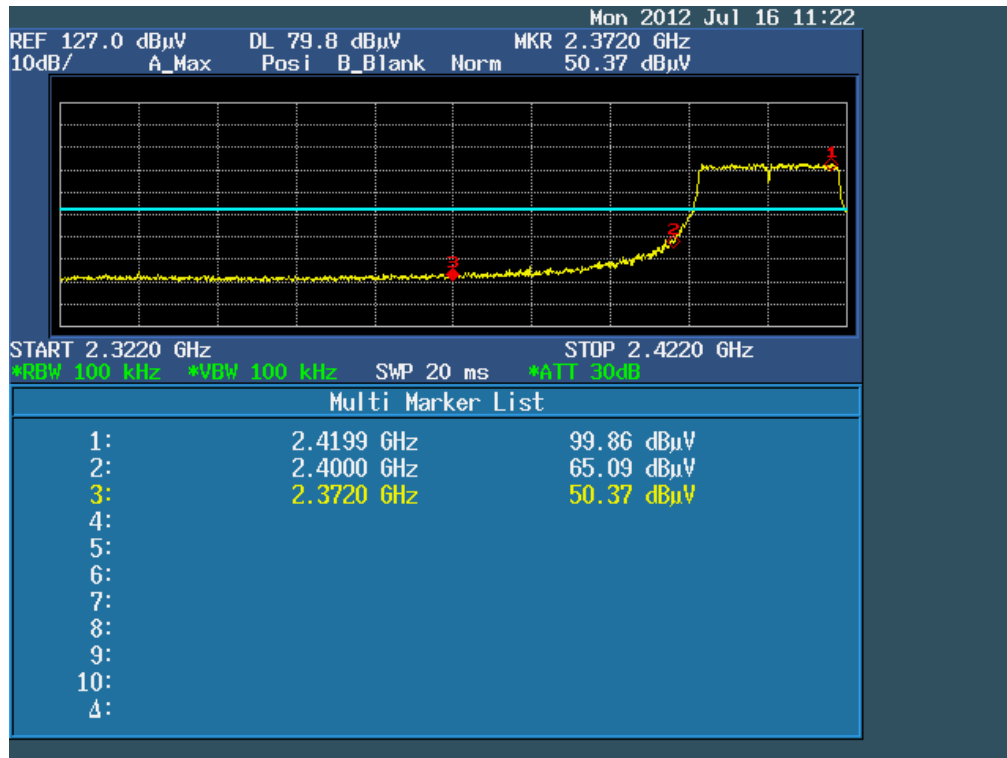
802.11n (20MHz \ 6.5Mbps)
The Lowest Channel 01: 2412MHz



802.11n (20MHz \ 6.5Mbps)
The High Channel 11: 2462MHz



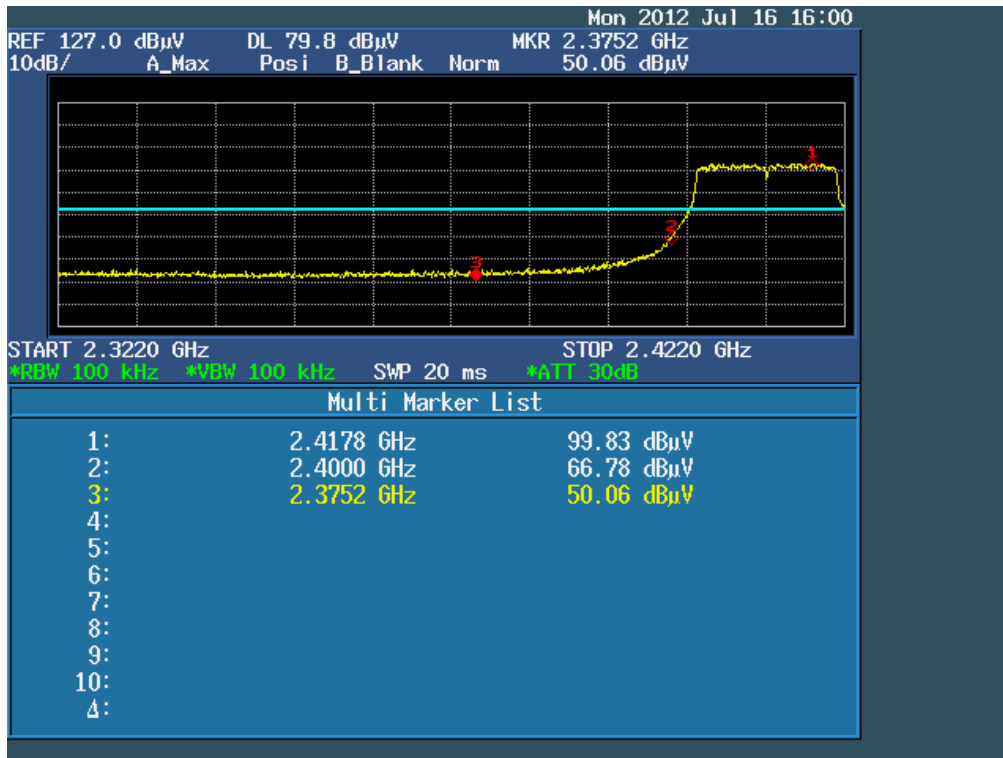
802.11n (20MHz \ 65Mbps)
The Lowest Channel 01: 2412MHz



802.11n (20MHz \ 65Mbps)
The High Channel 11: 2462MHz



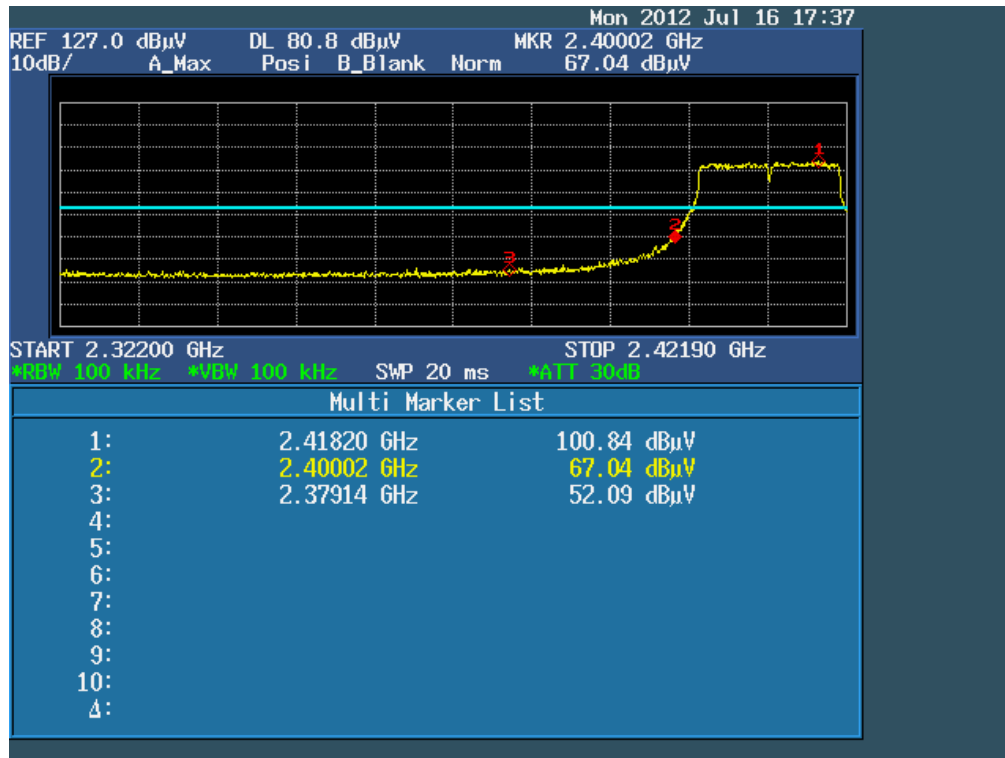
802.11n (20MHz \ 7.2Mbps)
The Lowest Channel 01: 2412MHz



802.11n (20MHz \ 7.2Mbps)
The High Channel 11: 2462MHz



802.11n (20MHz \ 72.2Mbps)
The Lowest Channel 01: 2412MHz



802.11n (20MHz \ 72.2Mbps)
The High Channel 11: 2462MHz



802.11n (40MHz \ 13.5Mbps)
The Lowest Channel 03: 2422MHz



802.11n (40MHz \ 13.5Mbps)
The High Channel 09: 2452MHz



802.11n (40MHz \ 135Mbps)
The Lowest Channel 03: 2422MHz



802.11n (40MHz \ 135Mbps)
The High Channel 09: 2452MHz



802.11n (40MHz \ 15Mbps)

The Lowest Channel 03: 2422MHz



802.11n (40MHz \ 15Mbps)

The High Channel 09: 2452MHz



802.11n (40MHz \ 150Mbps)
The Lowest Channel 03: 2422MHz



802.11n (40MHz \ 150Mbps)
The High Channel 09: 2452MHz



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)).

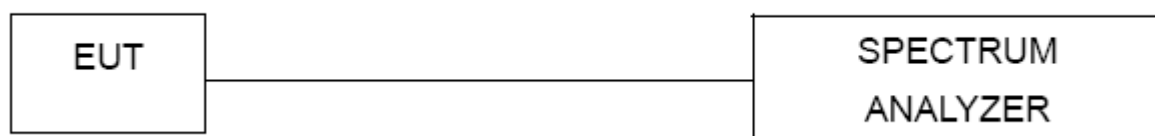
6.8.2 Test procedure

- 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 $\geq$ RBW, Sweep time=Auto, Detector Function=Peak.

6.8.3 Deviation from standard

No deviation.

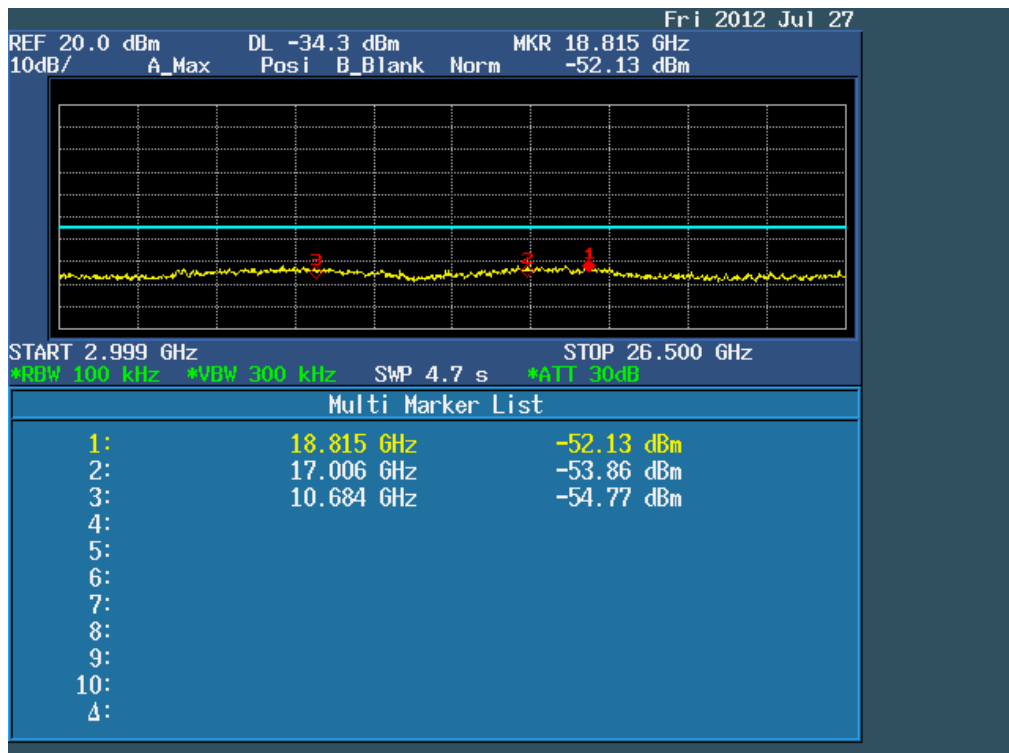
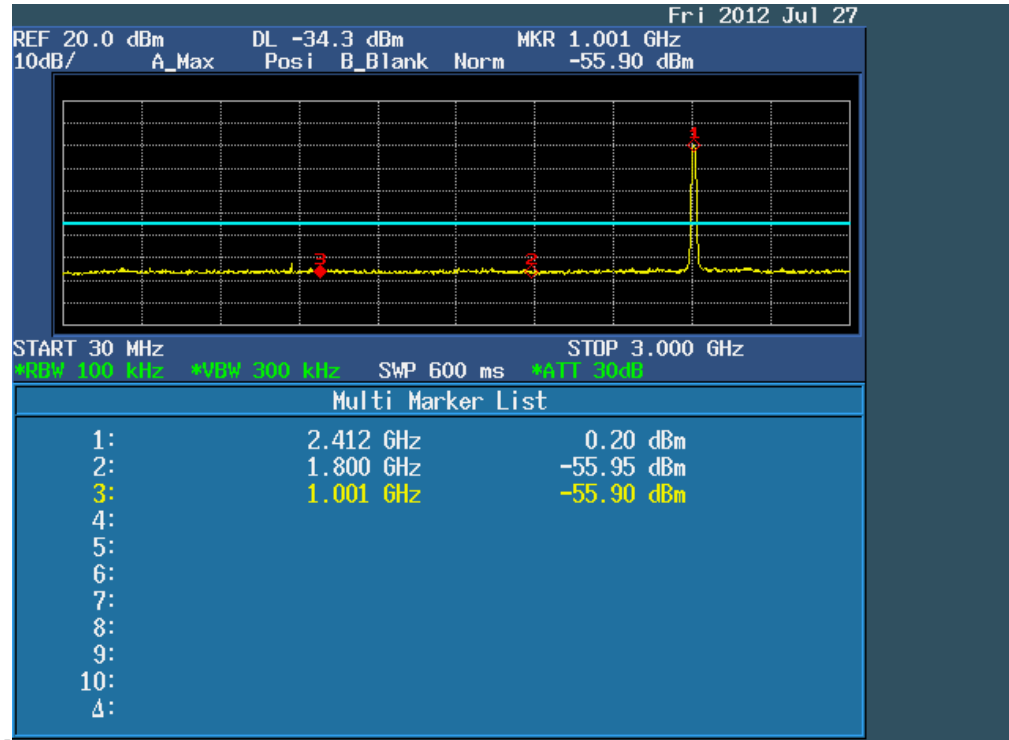
6.8.4 Test setup



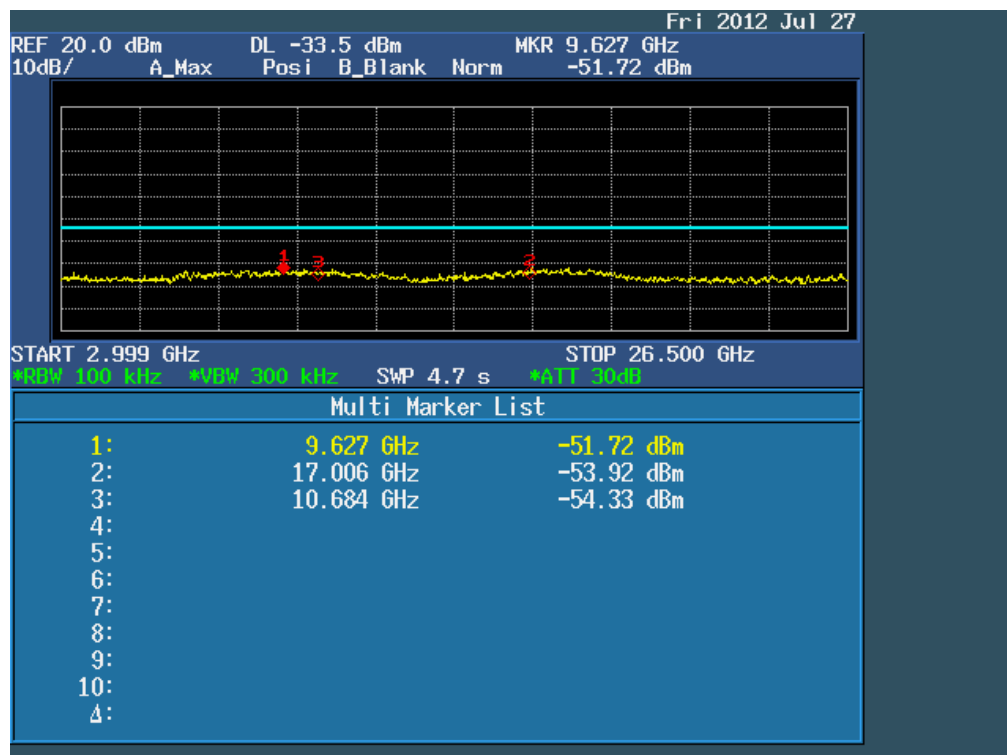
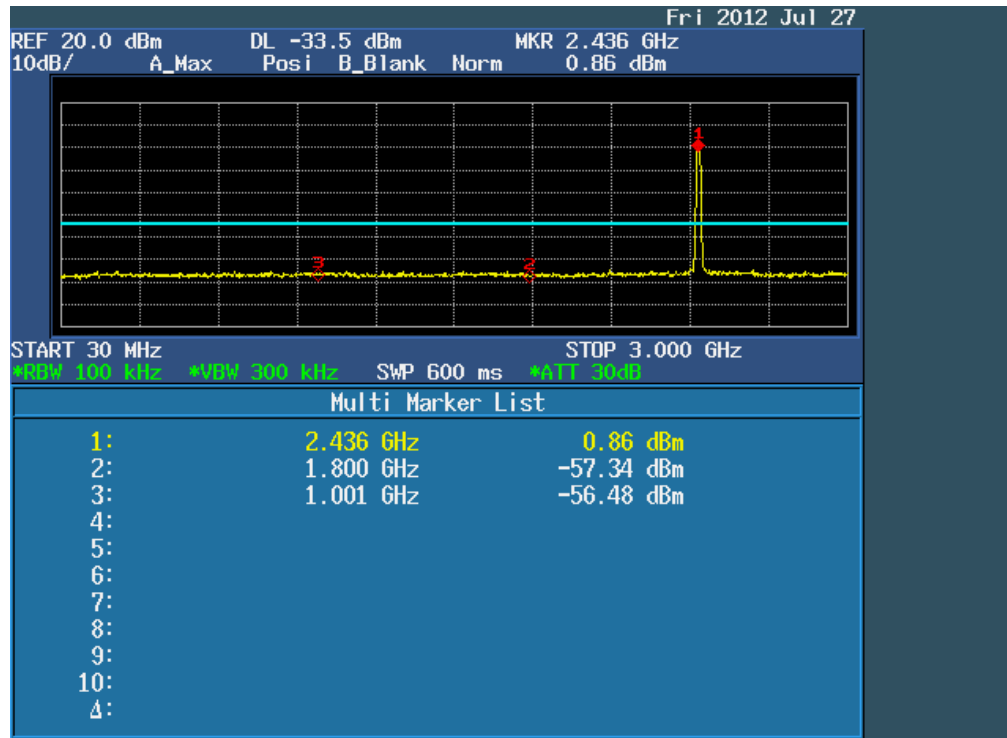
6.8.5 Test results

802.11b (1Mbps)

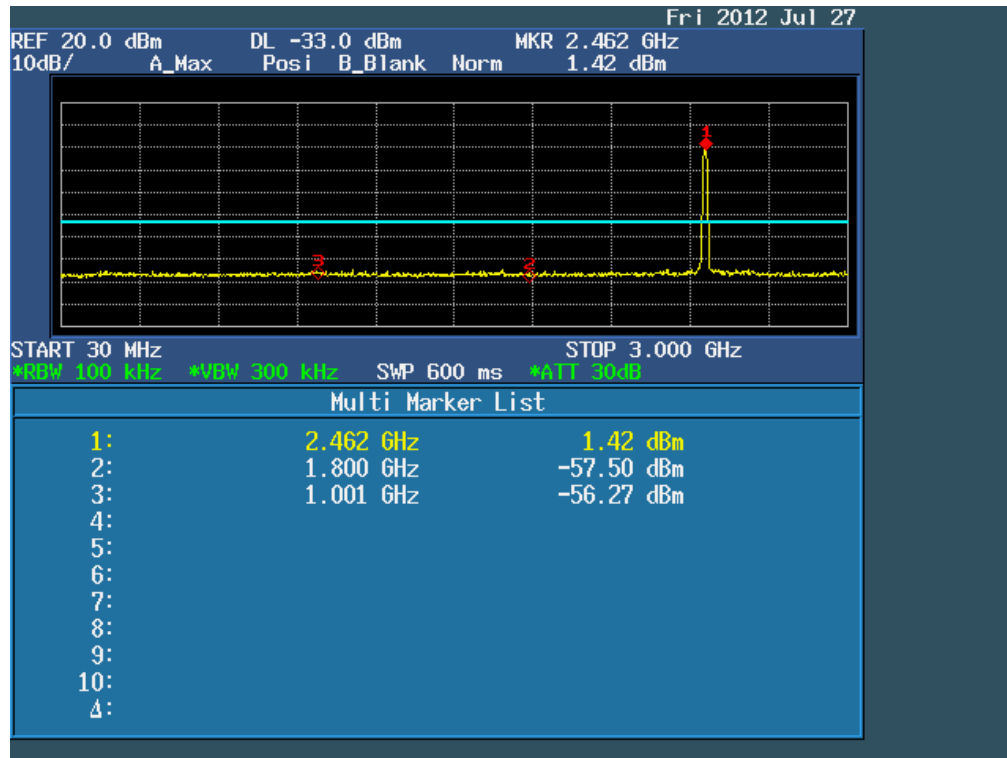
The Lowest Channel 01: 2412MHz



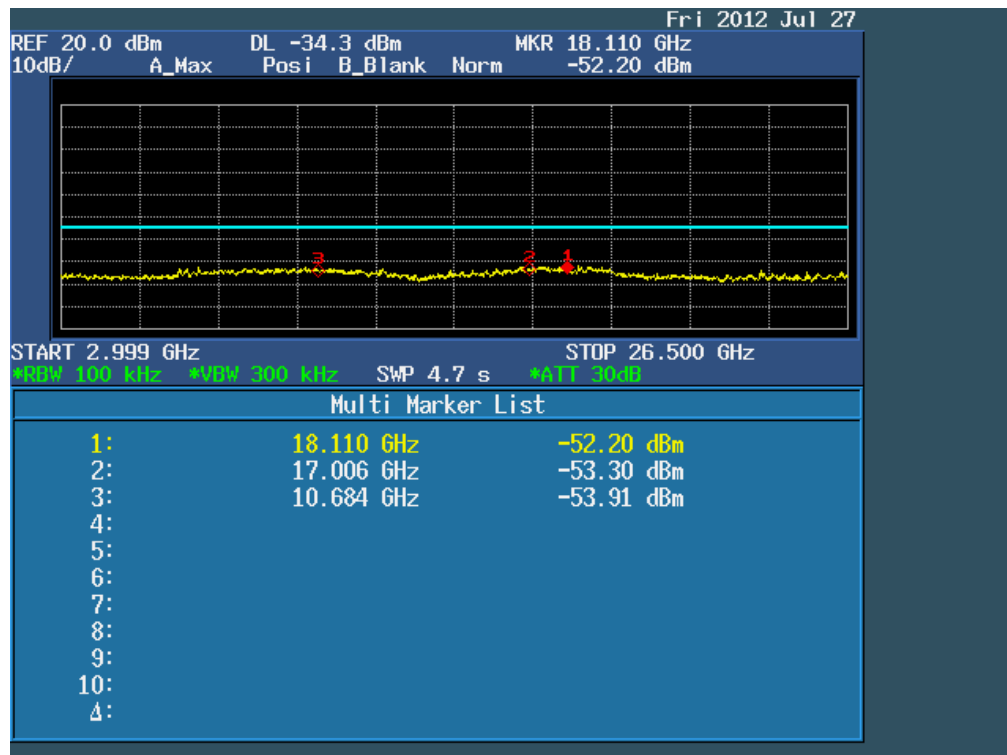
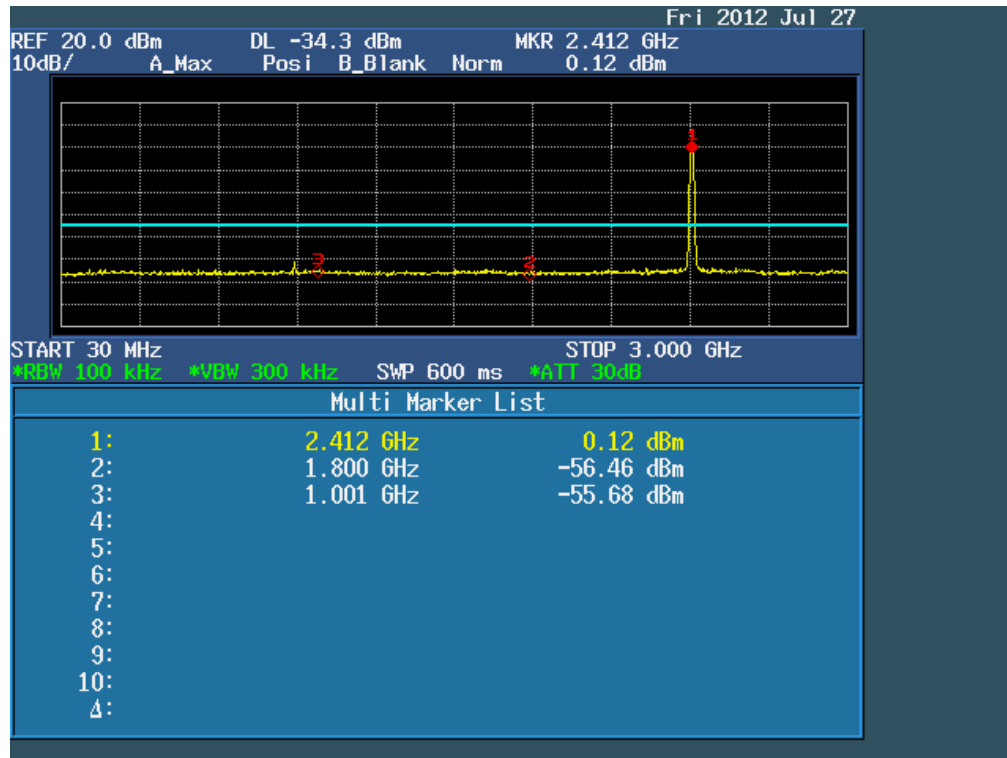
802.11b (1Mbps)
The Middle Channel 06: 2437MHz



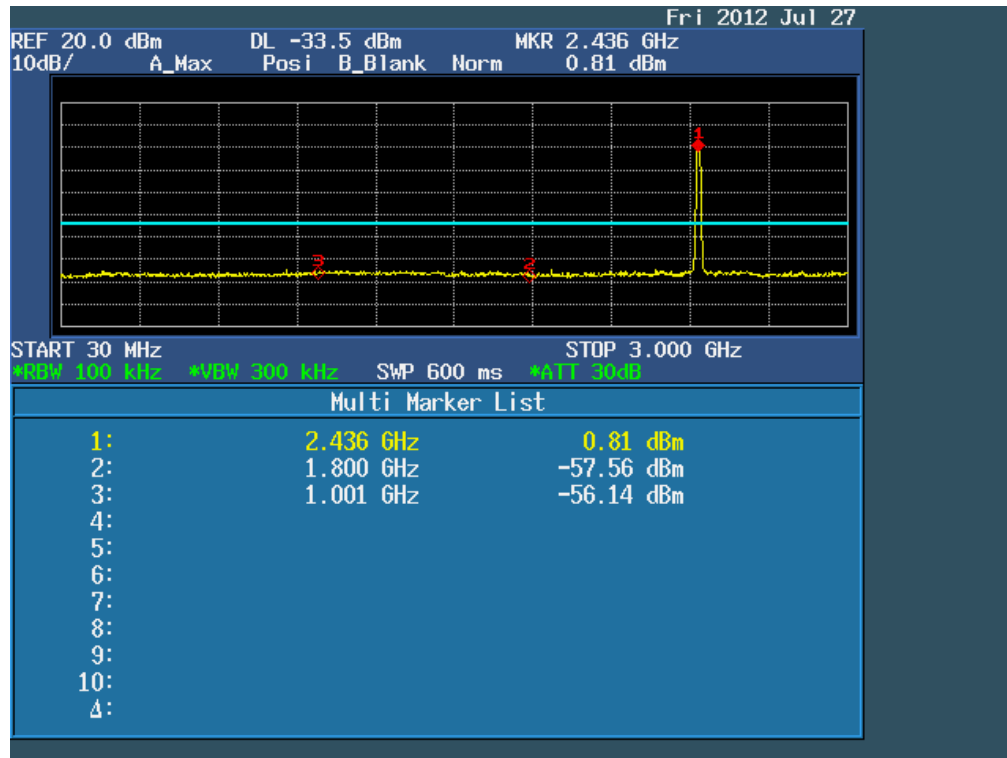
802.11b (1Mbps) The High Channel 11: 2462MHz



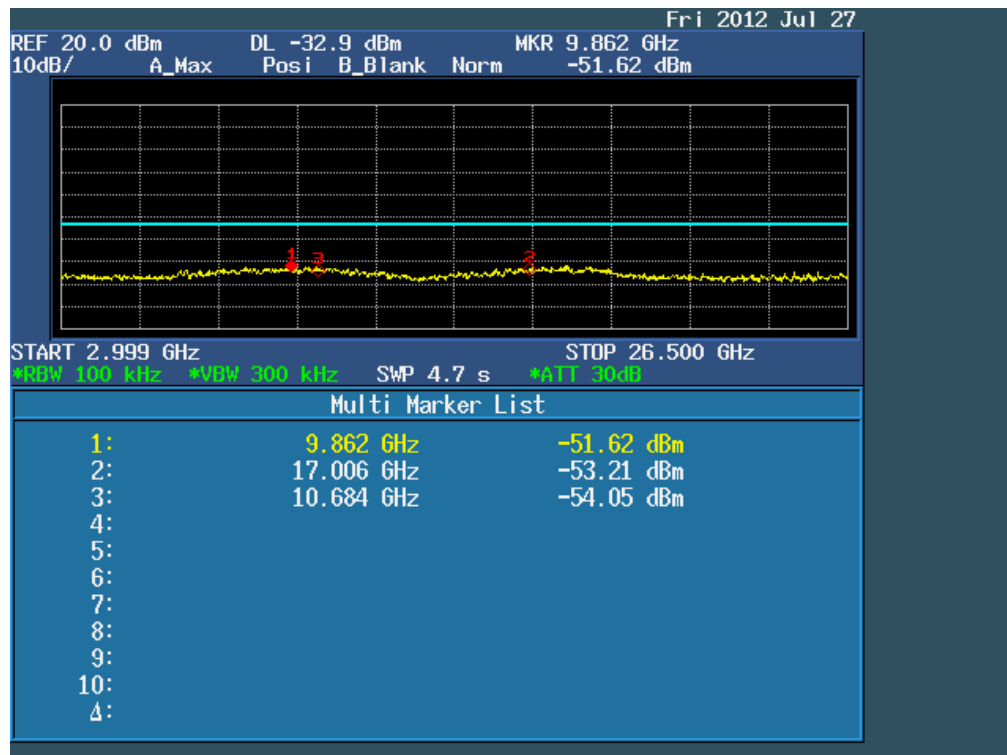
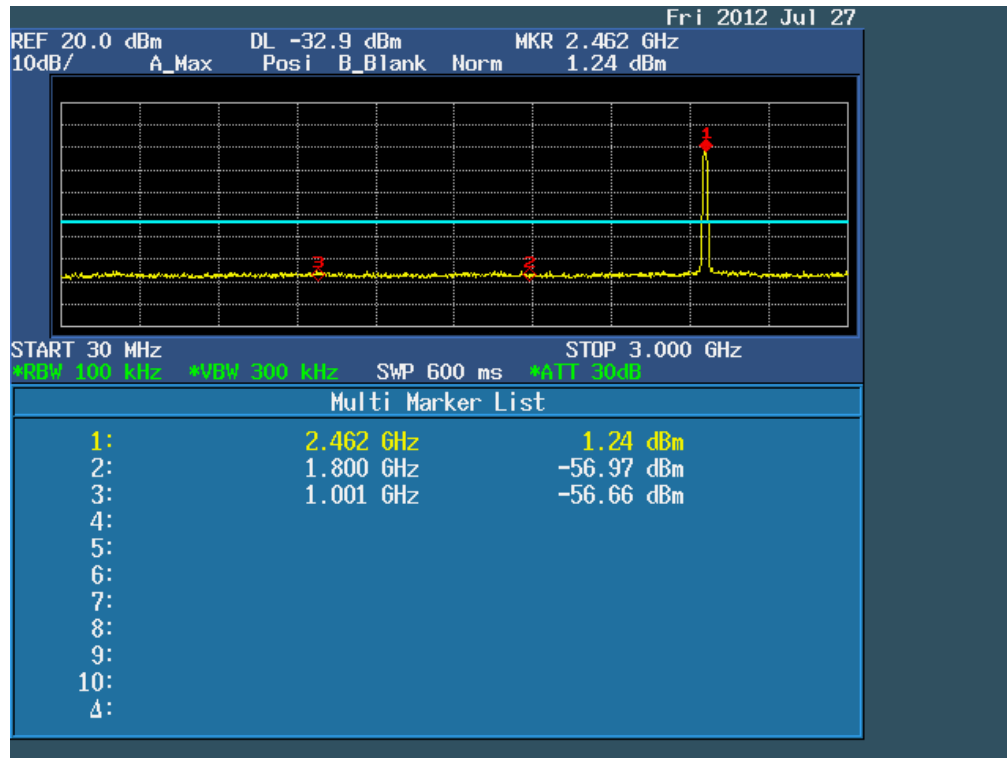
802.11b (11Mbps)
The Lowest Channel 01: 2412MHz



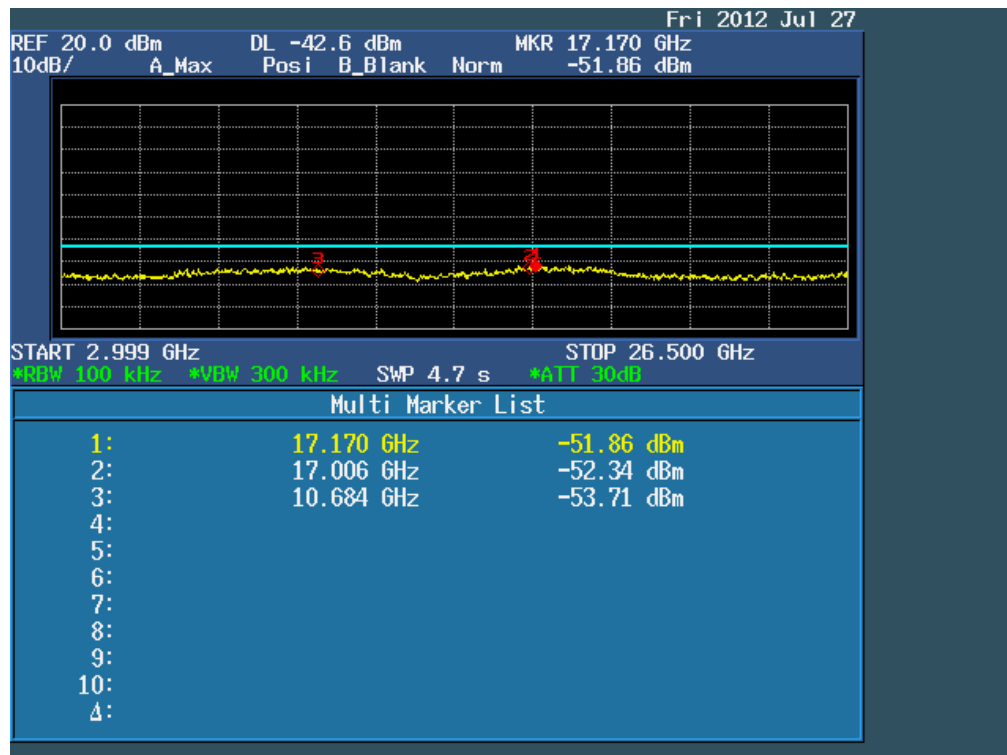
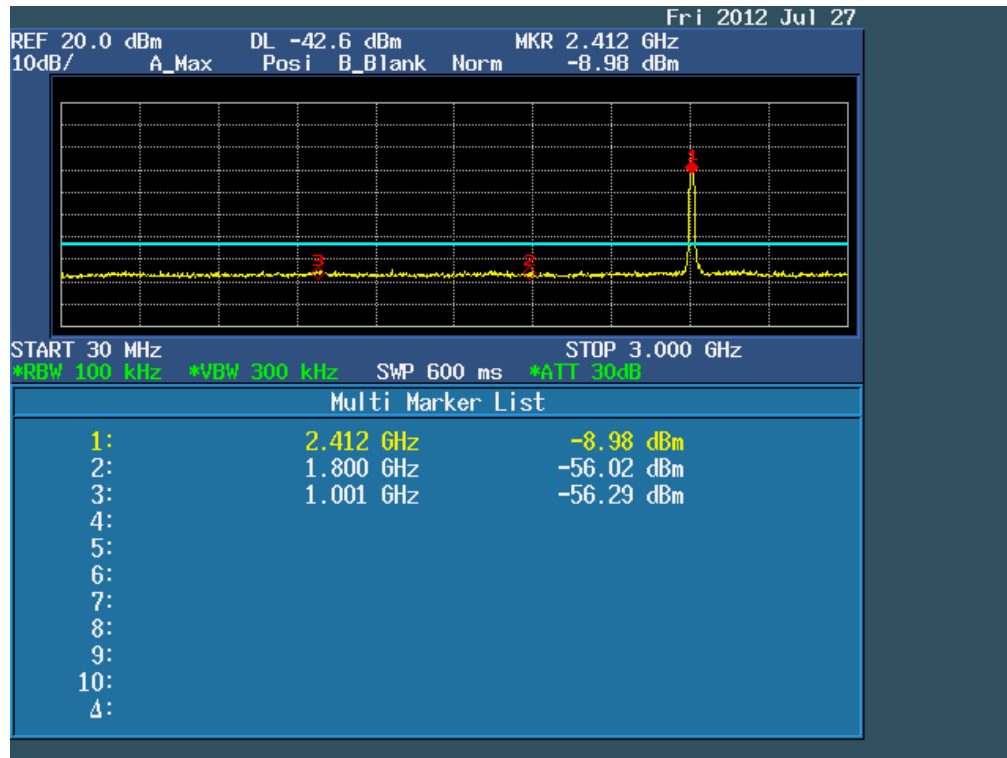
802.11b (11Mbps)
The Middle Channel 06: 2437MHz



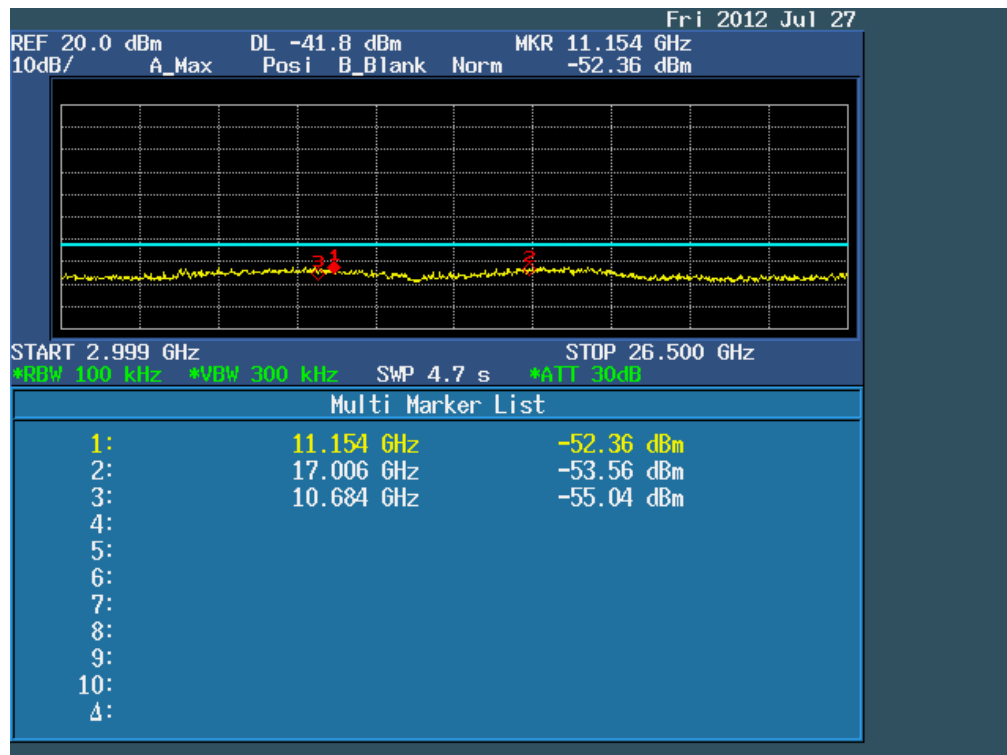
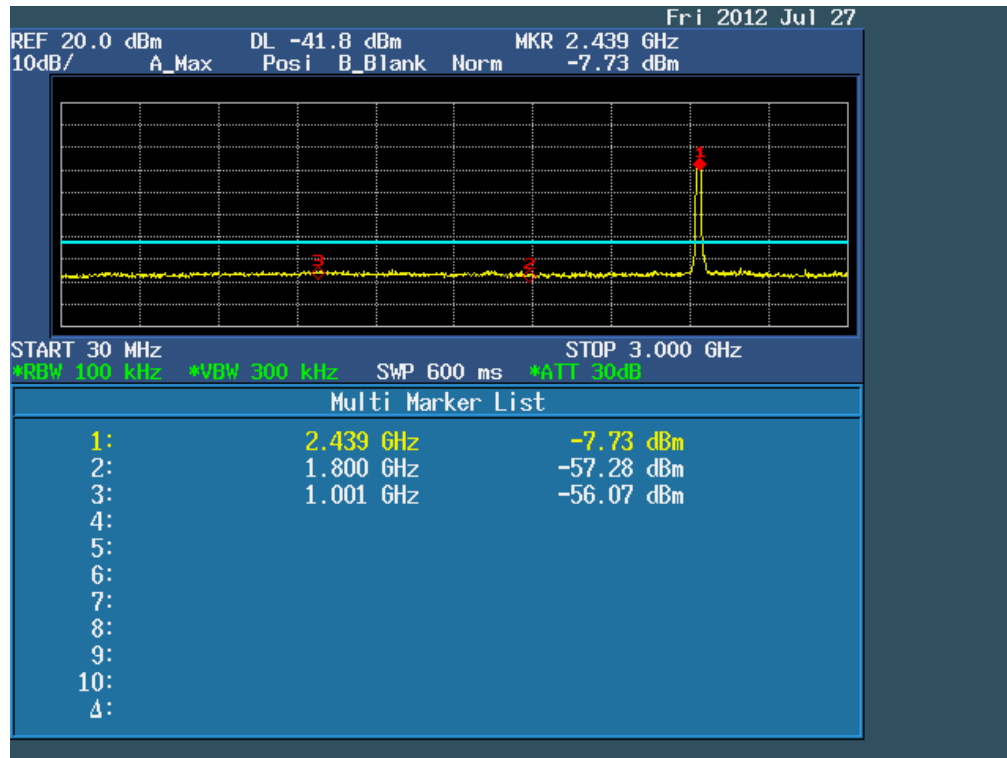
802.11b (11Mbps)
The High Channel 11: 2462MHz



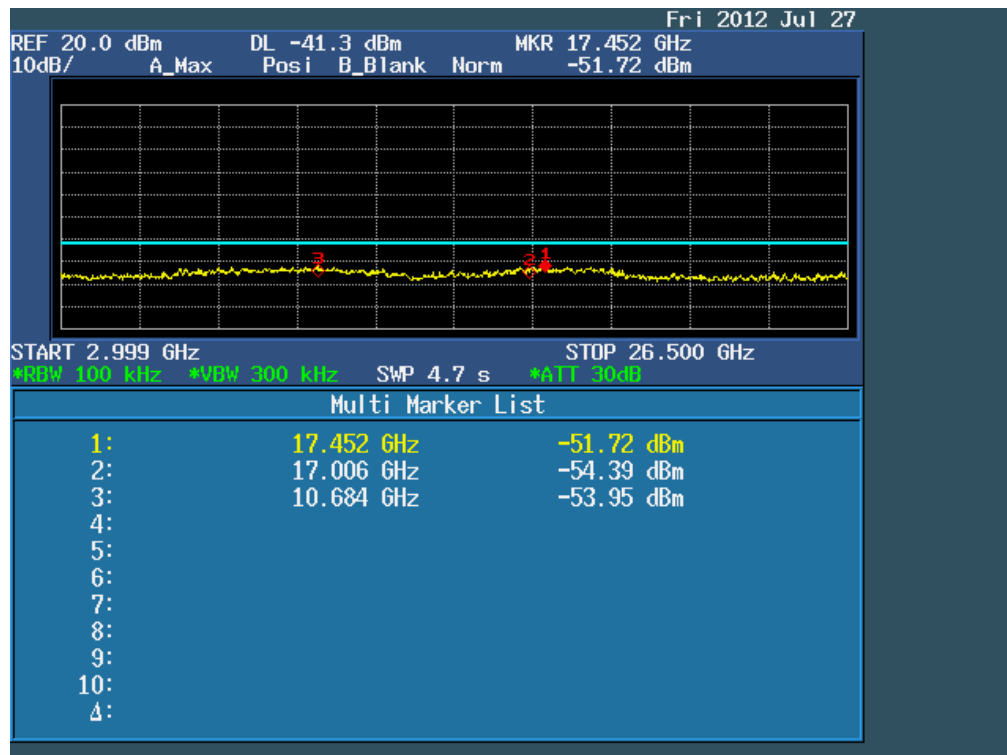
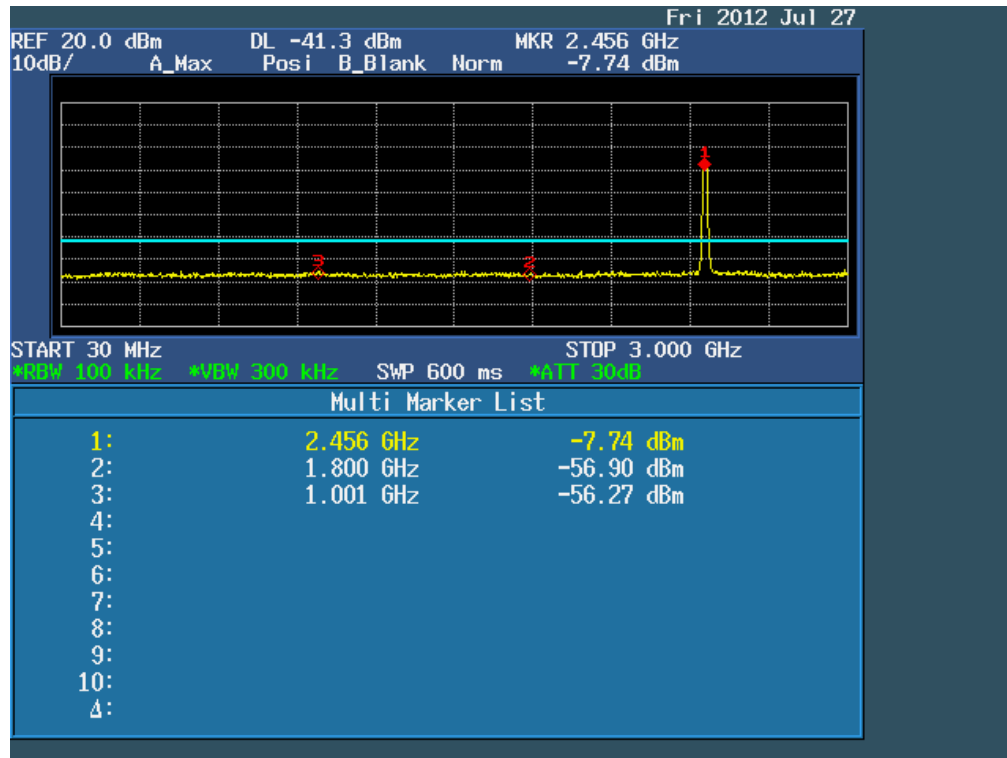
802.11g (6Mbps)
The Lowest Channel 01: 2412MHz



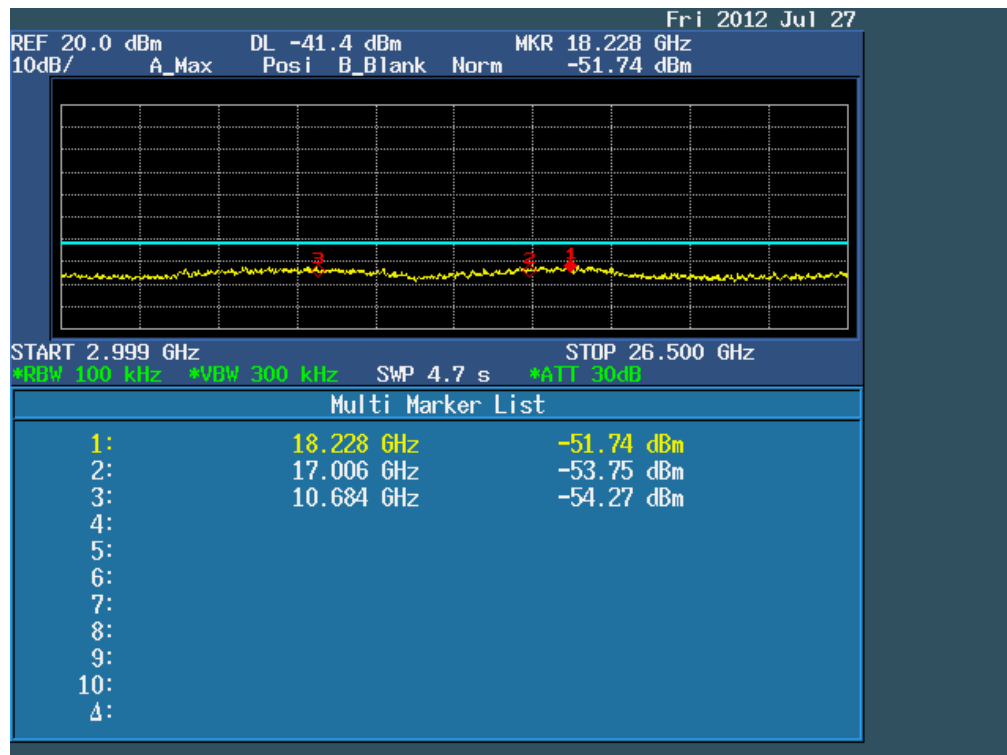
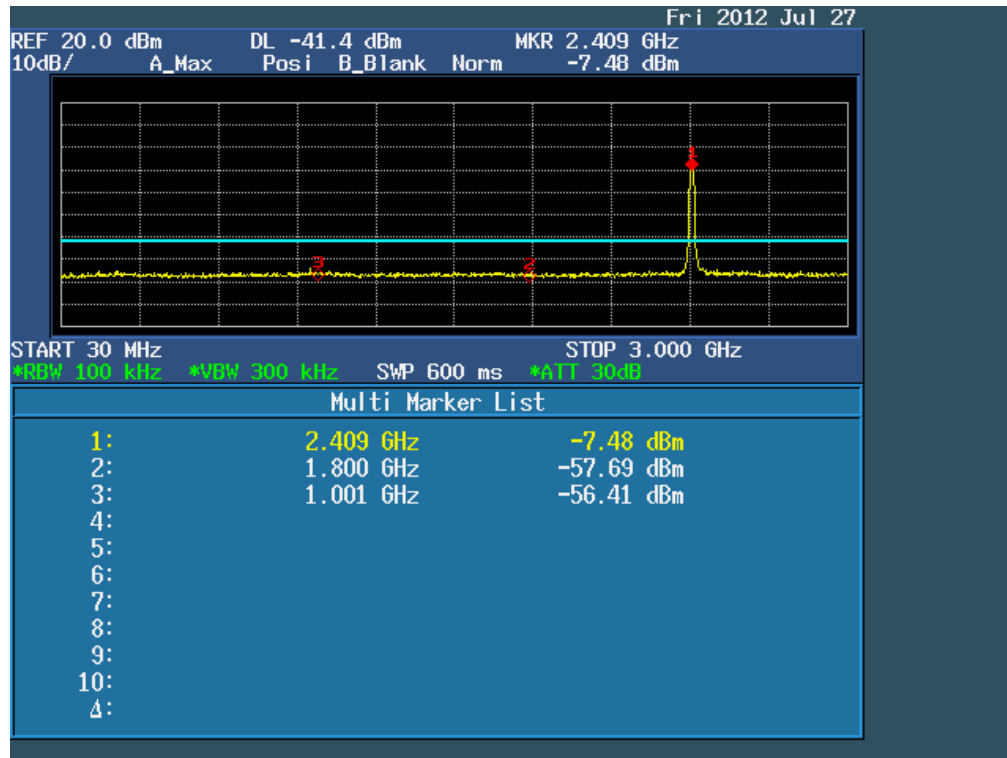
802.11g (6Mbps)
The Middle Channel 06: 2437MHz



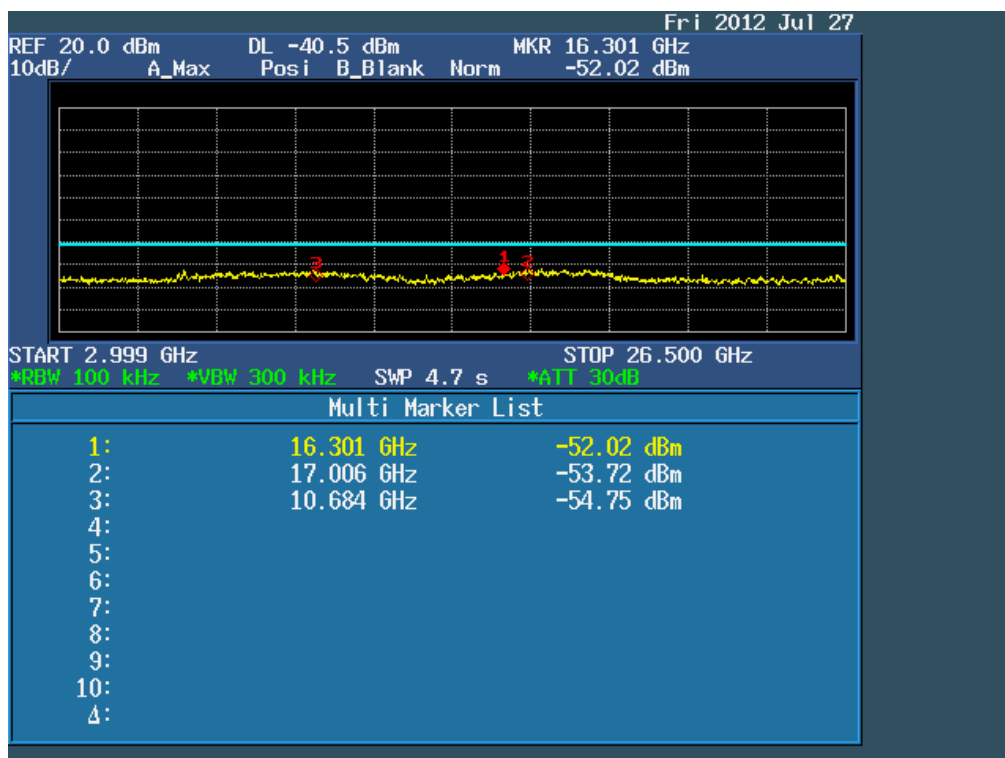
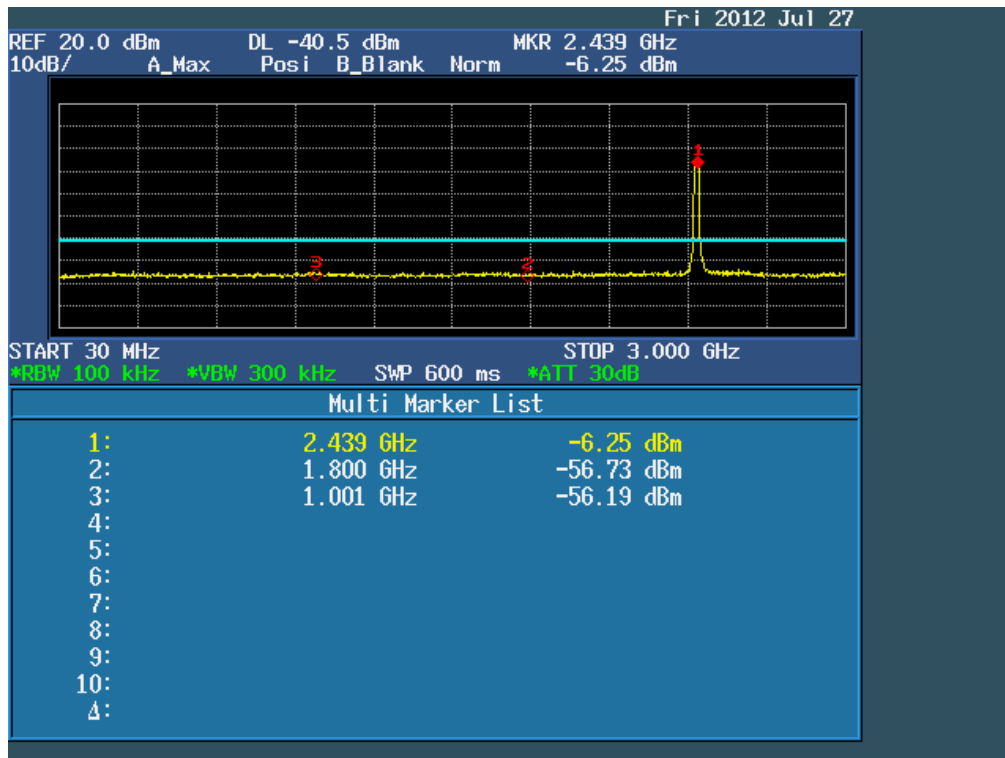
802.11g (6Mbps)
The High Channel 11: 2462MHz



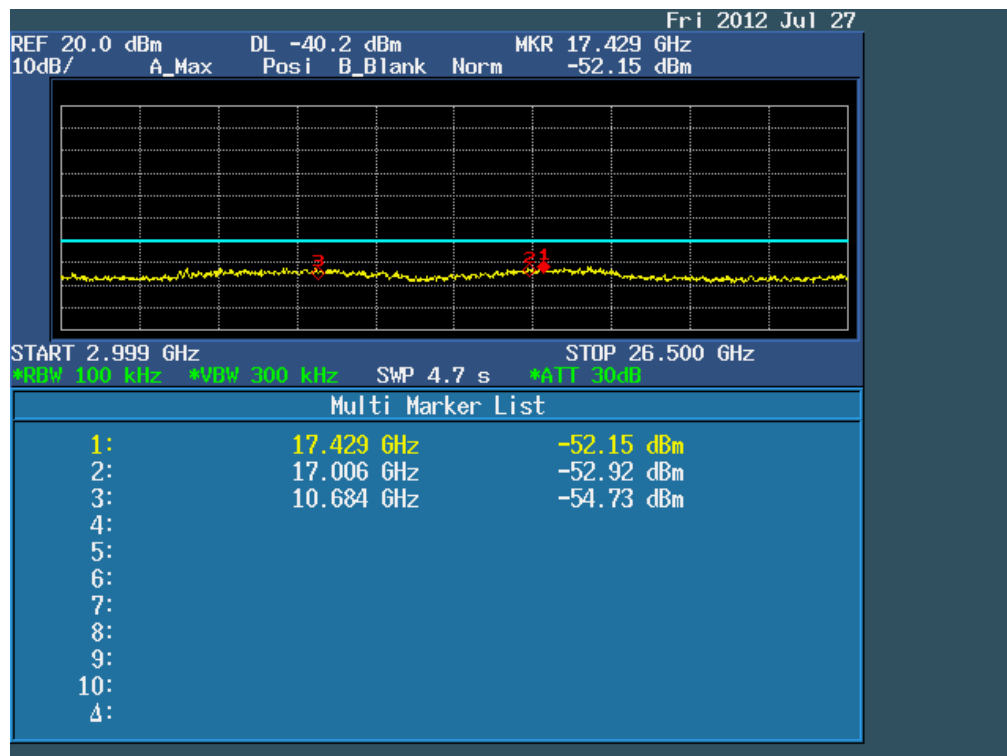
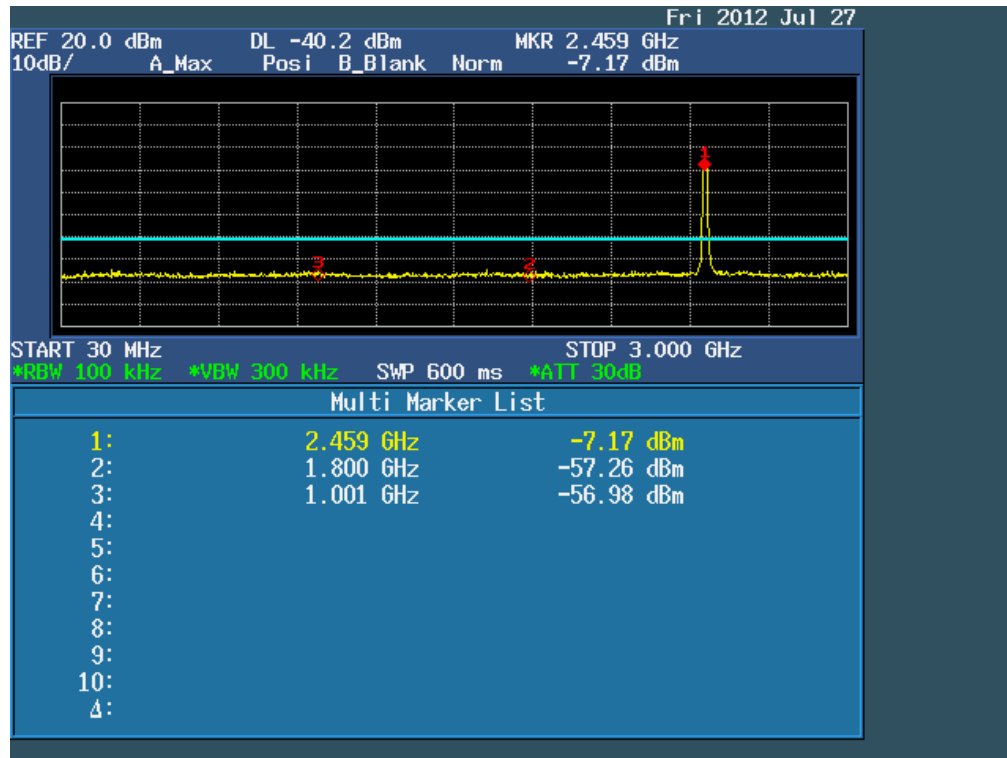
802.11g (54Mbps)
The Lowest Channel 01: 2412MHz



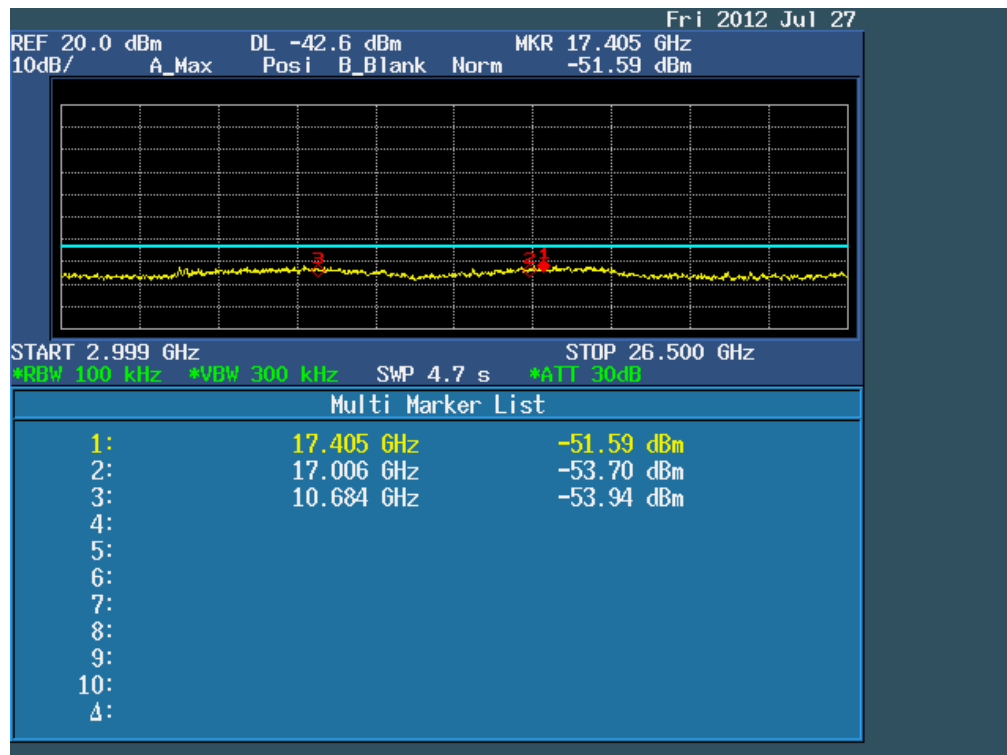
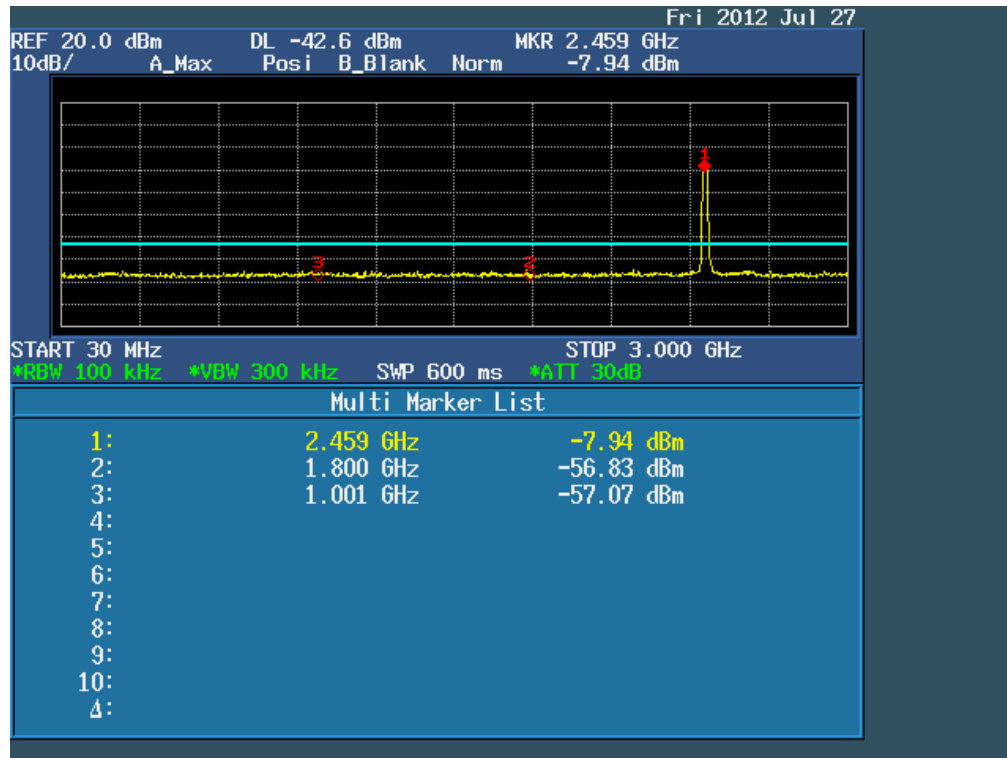
802.11g (54Mbps)
The Middle Channel 06: 2437MHz



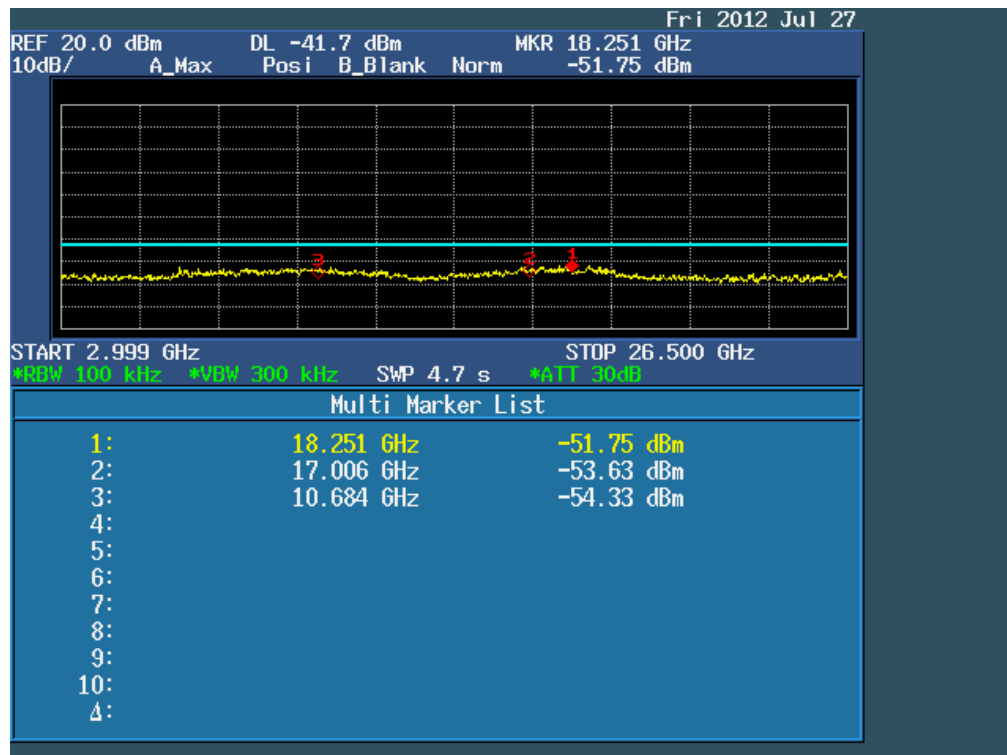
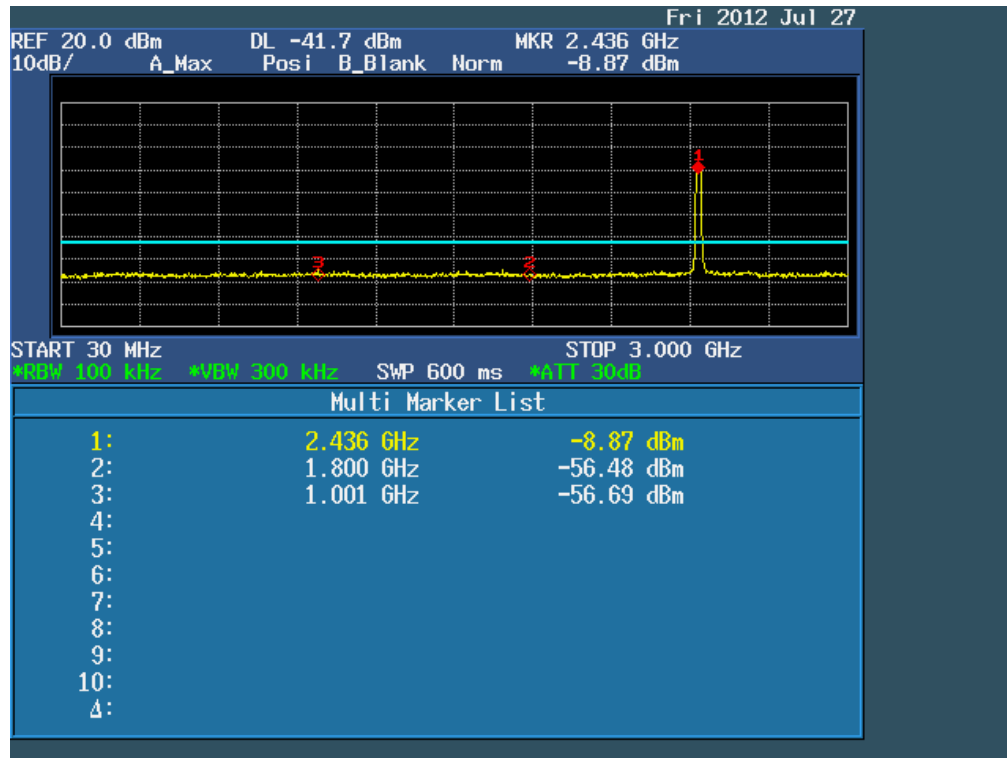
802.11g (54Mbps)
The High Channel 11: 2462MHz



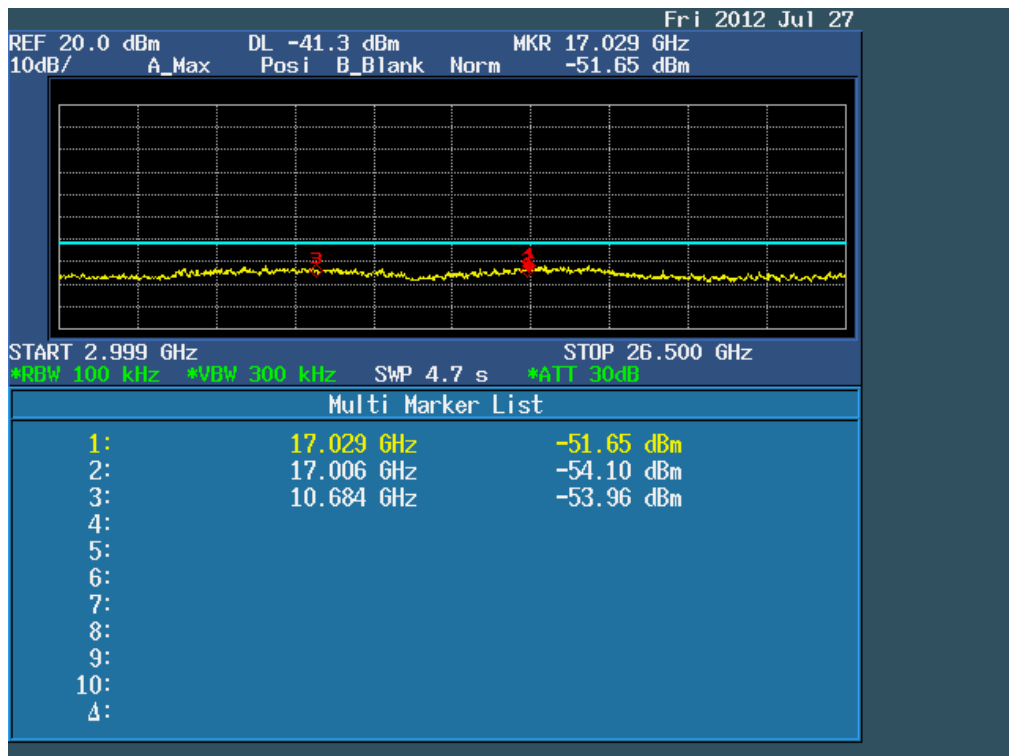
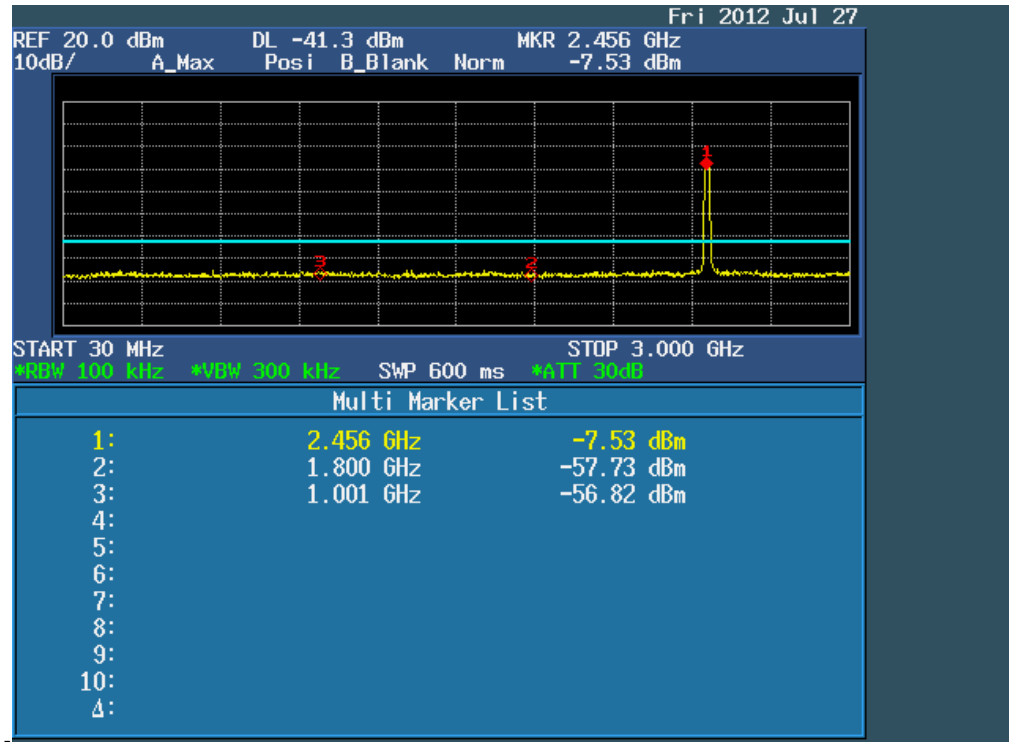
802.11n (20MHz \ 6.5Mbps)
The Lowest Channel 01: 2412MHz



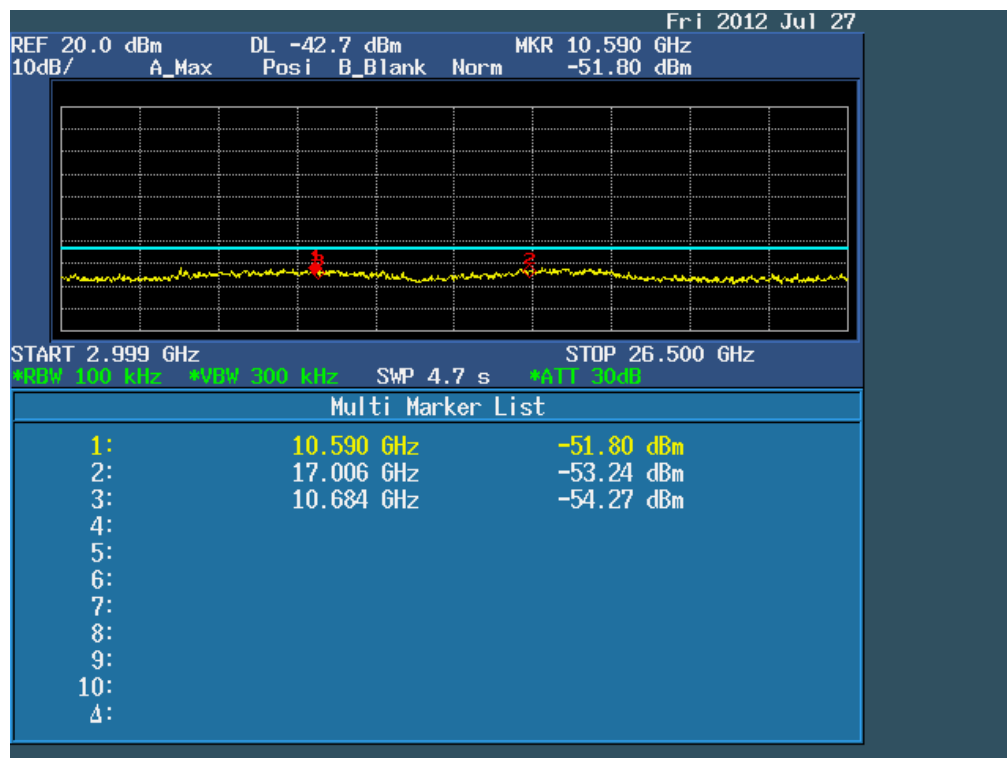
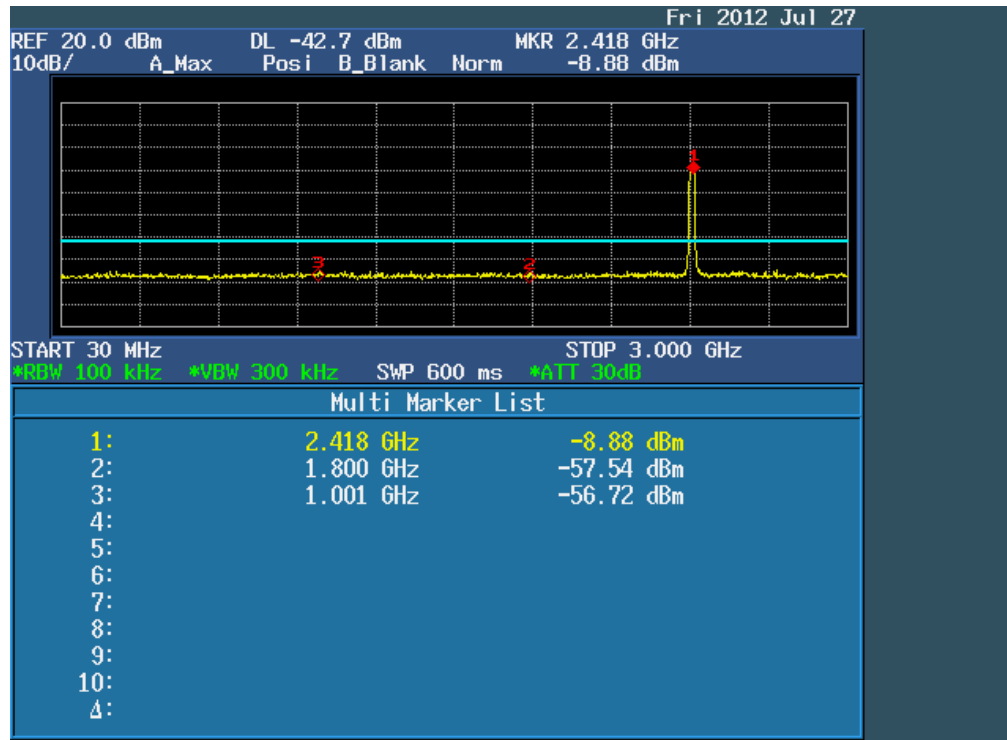
802.11n (20MHz \ 6.5Mbps)
The Middle Channel 06: 2437MHz



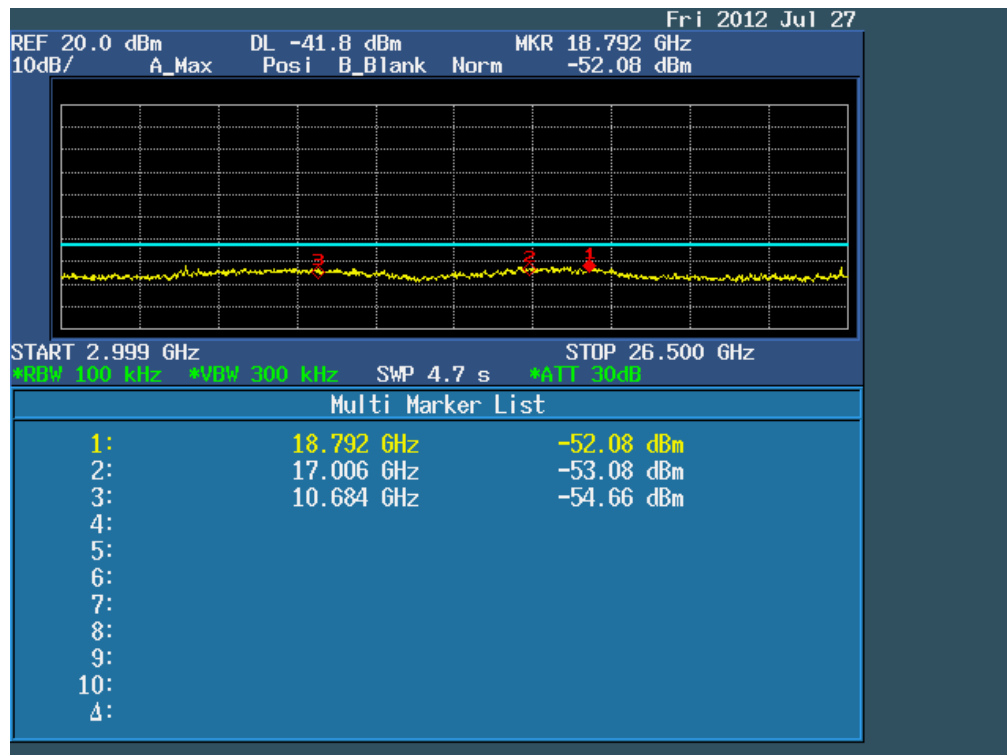
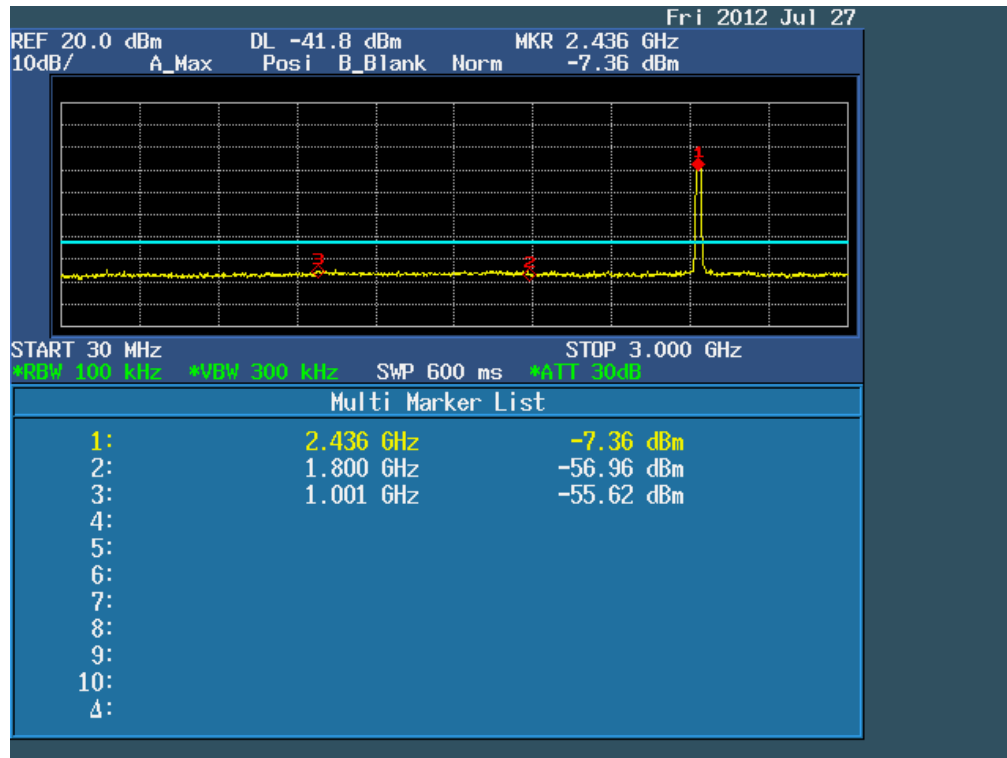
802.11n (20MHz \ 6.5Mbps)
The High Channel 11: 2462MHz



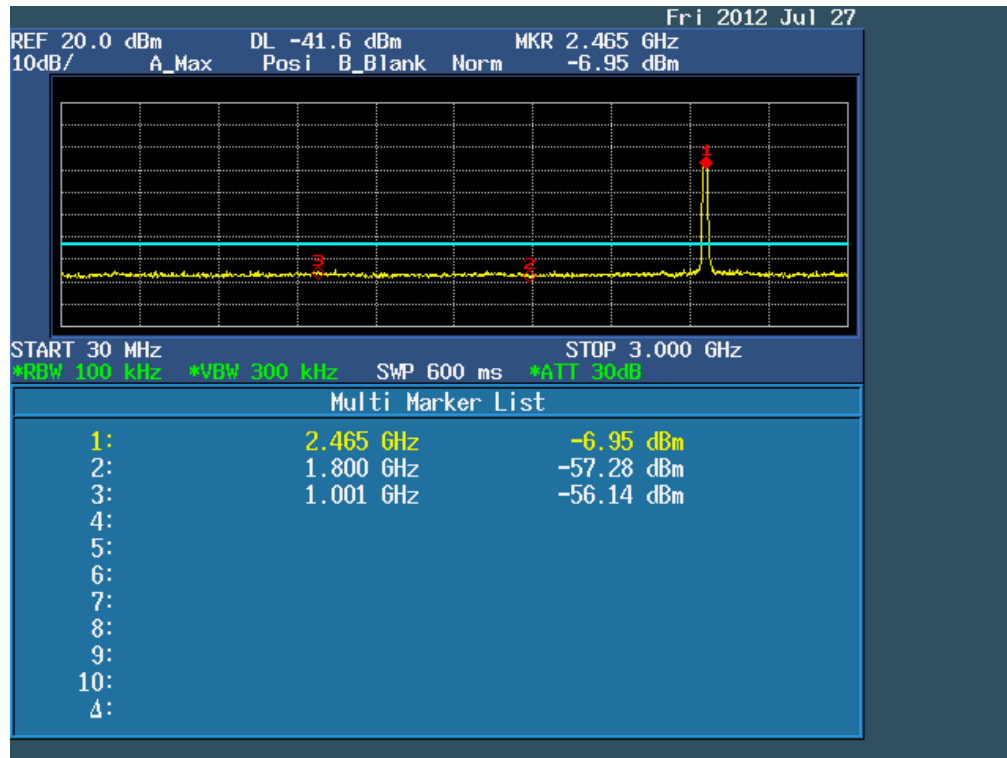
802.11n (20MHz \ 65Mbps)
The Lowest Channel 01: 2412MHz



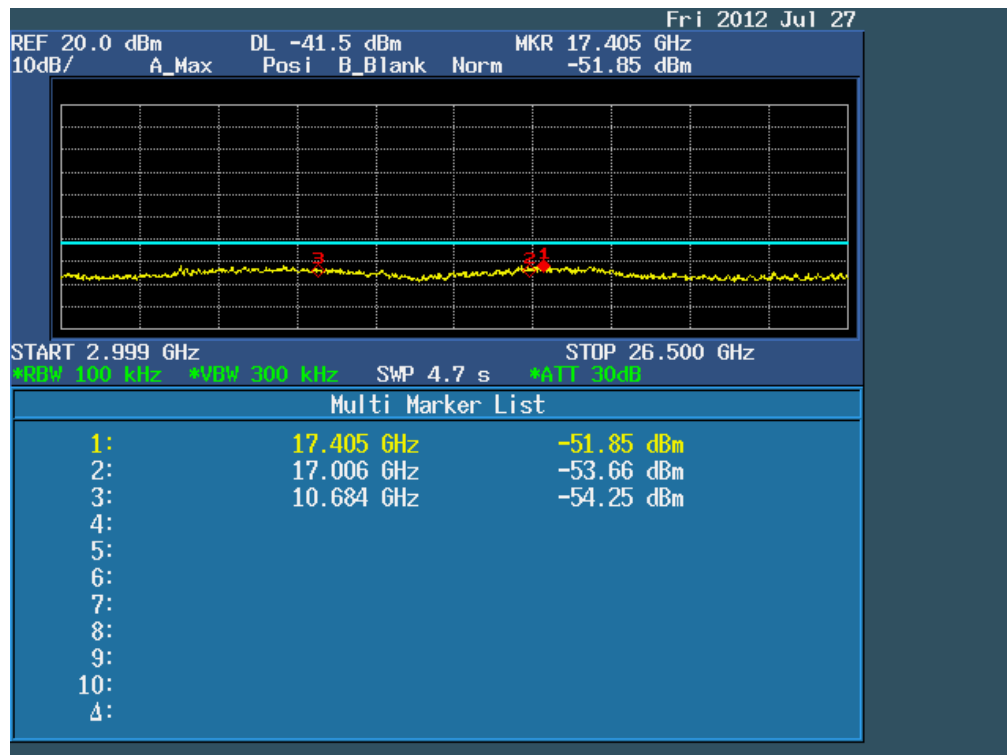
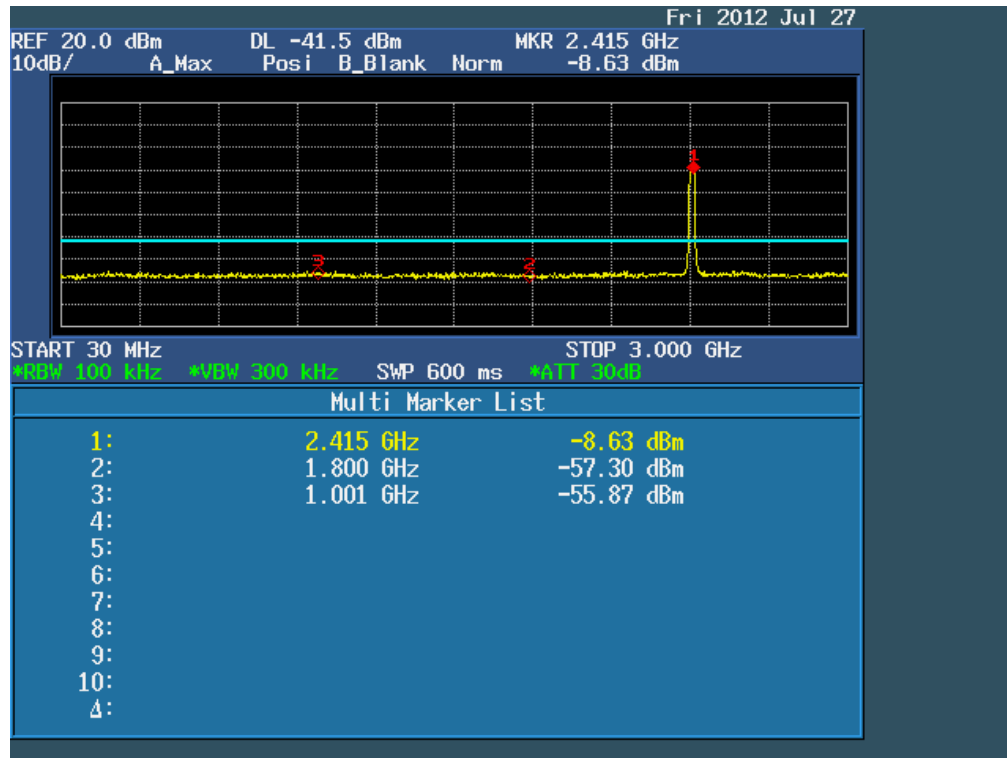
802.11n (20MHz \ 65Mbps)
The Middle Channel 06: 2437MHz



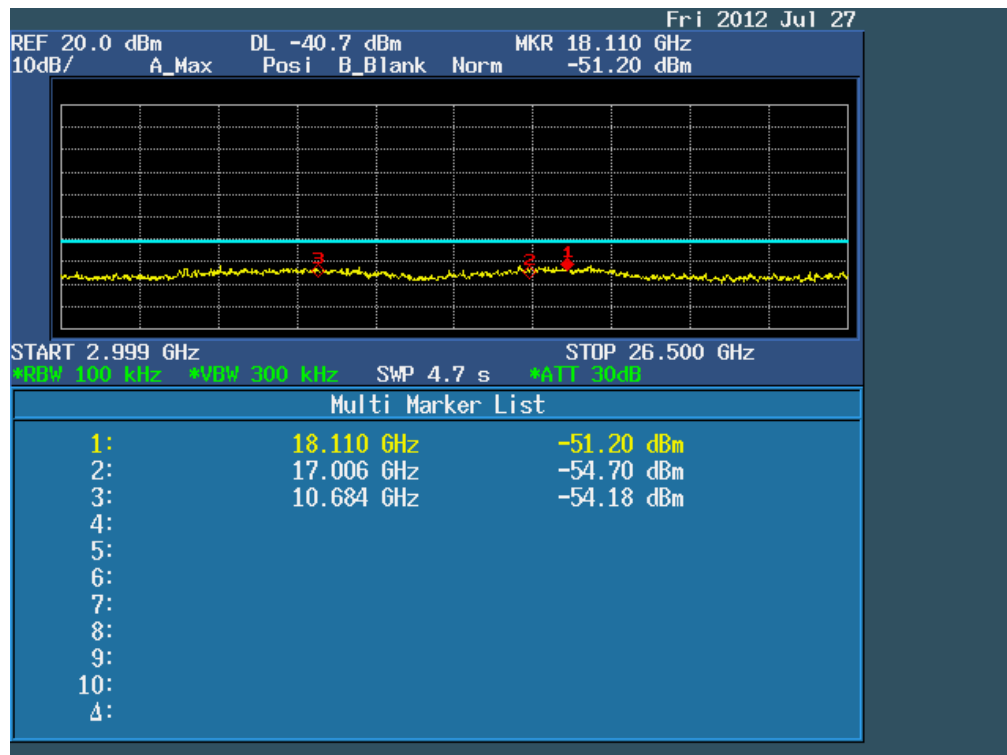
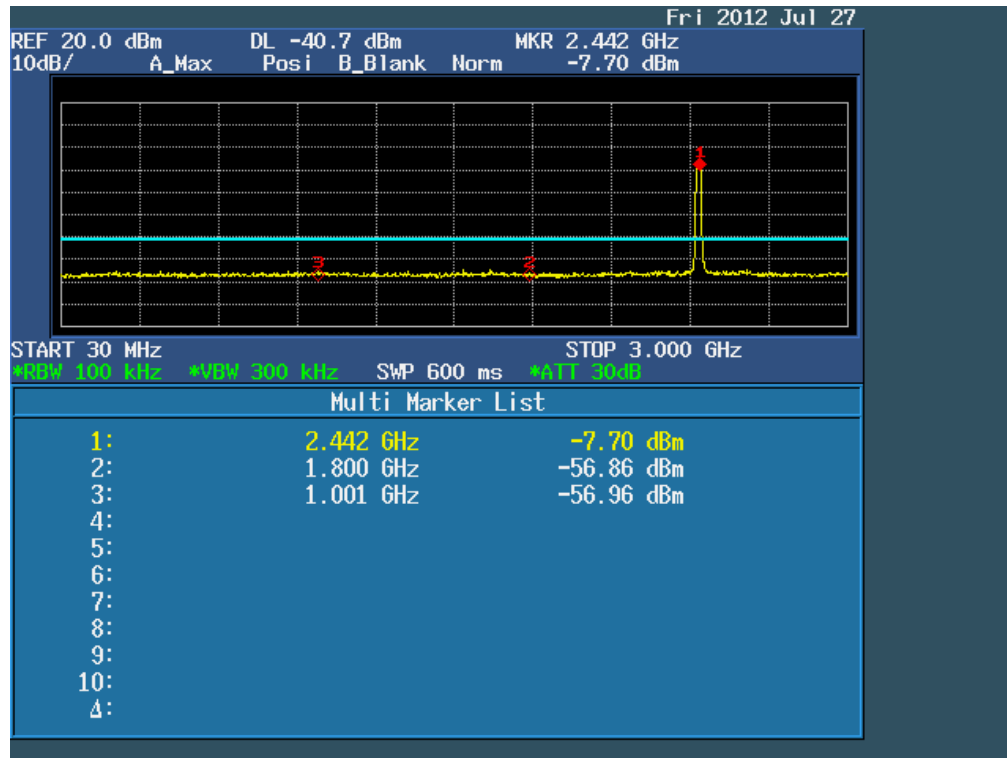
802.11n (20MHz \ 65Mbps)
The High Channel 11: 2462MHz



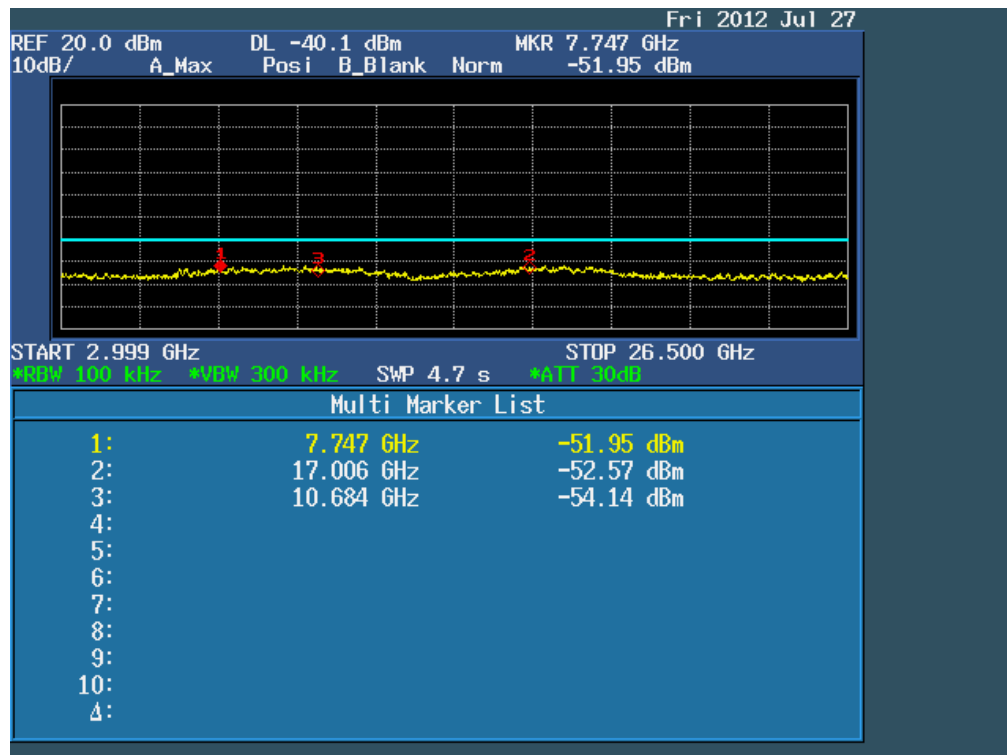
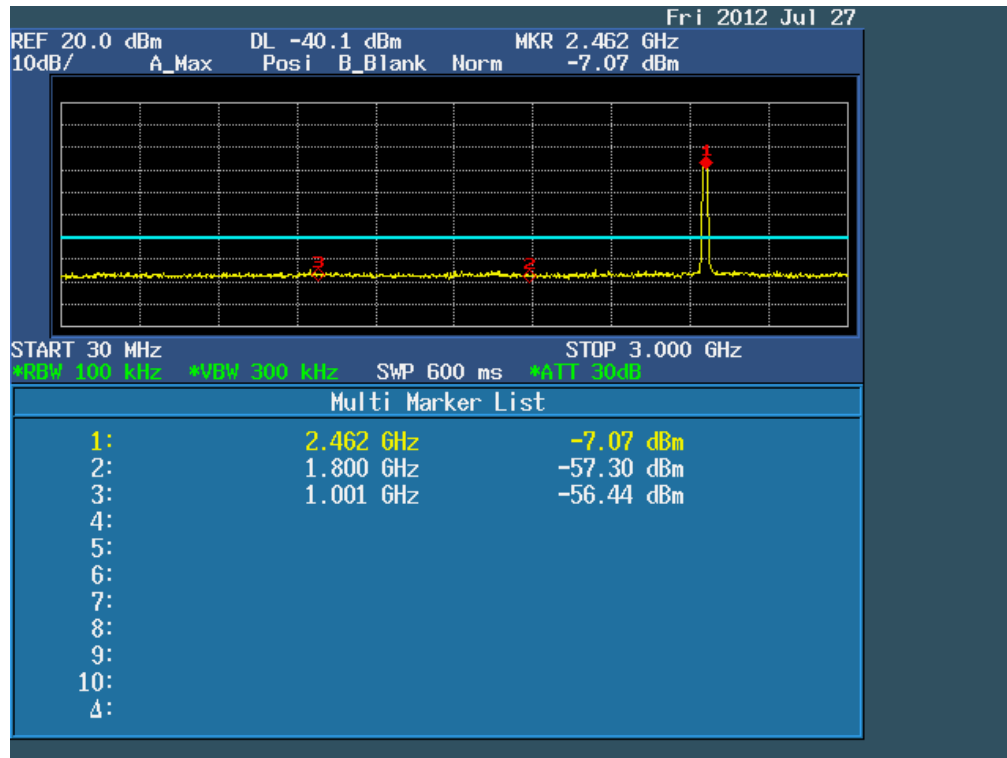
802.11n (20MHz \ 7.2Mbps)
The Lowest Channel 01: 2412MHz



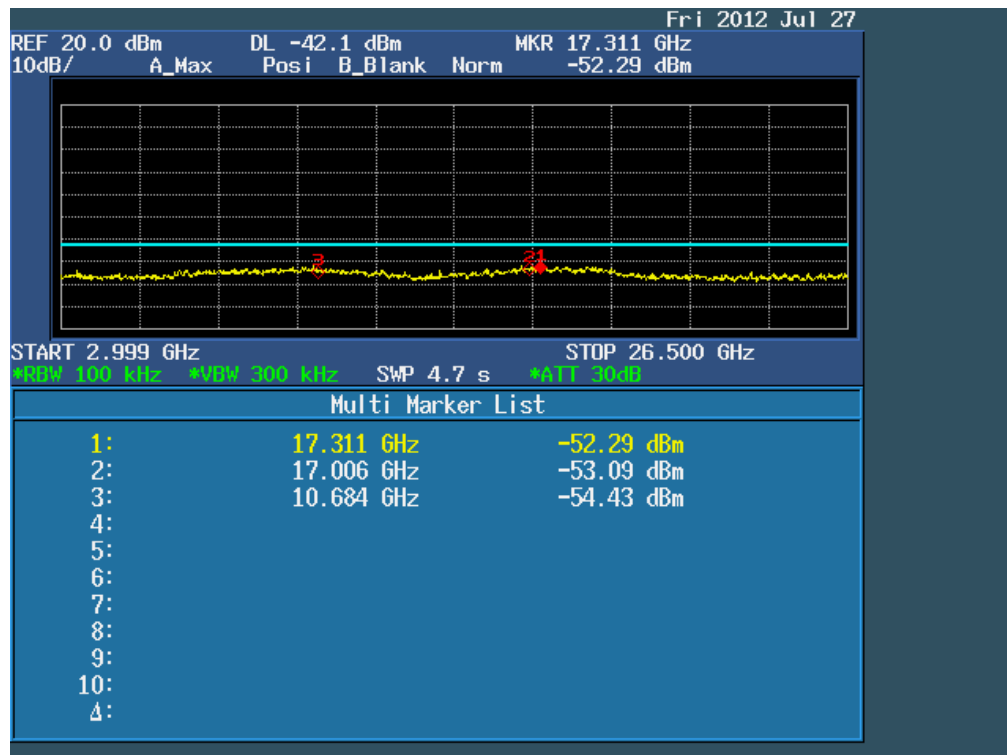
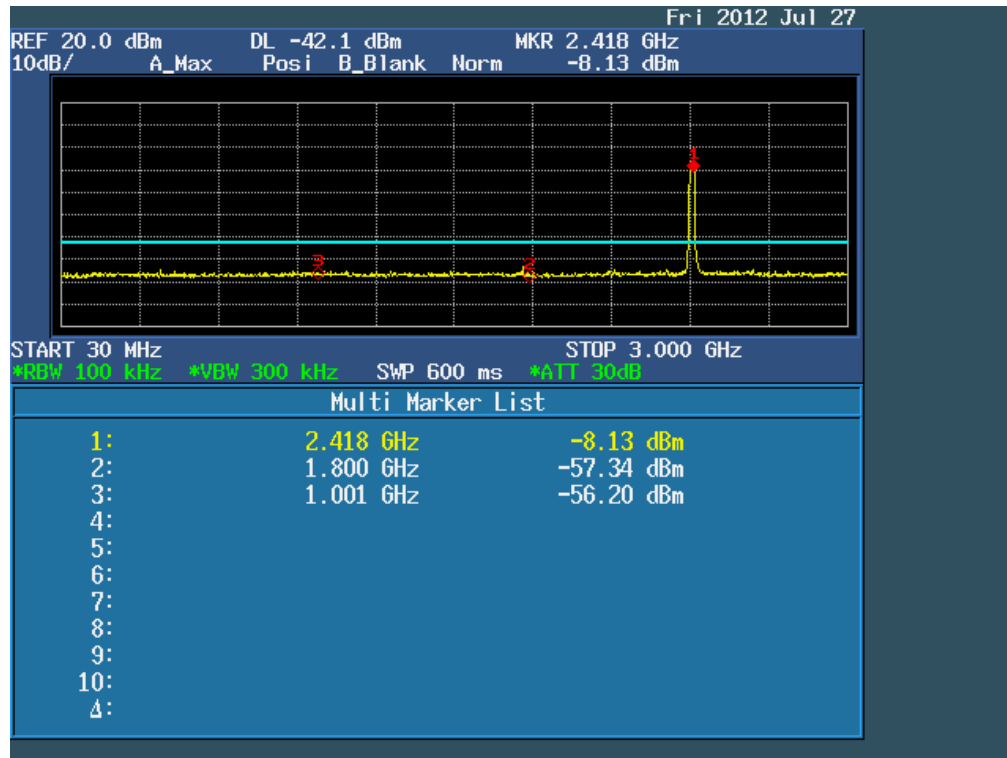
802.11n (20MHz \ 7.2Mbps)
The Middle Channel 06: 2437MHz



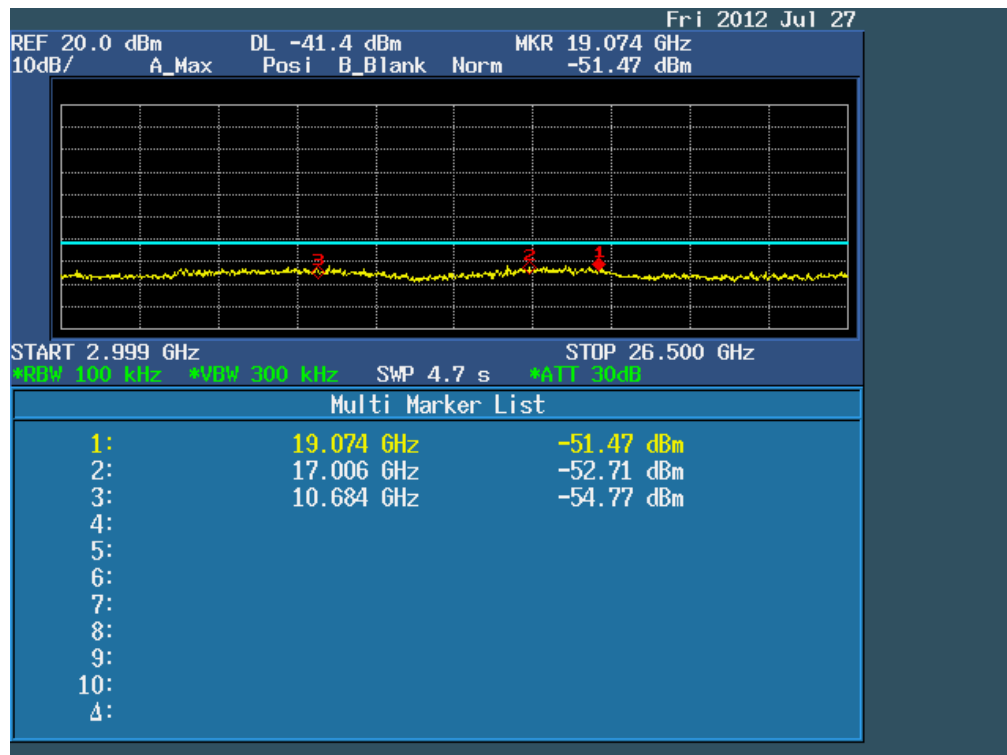
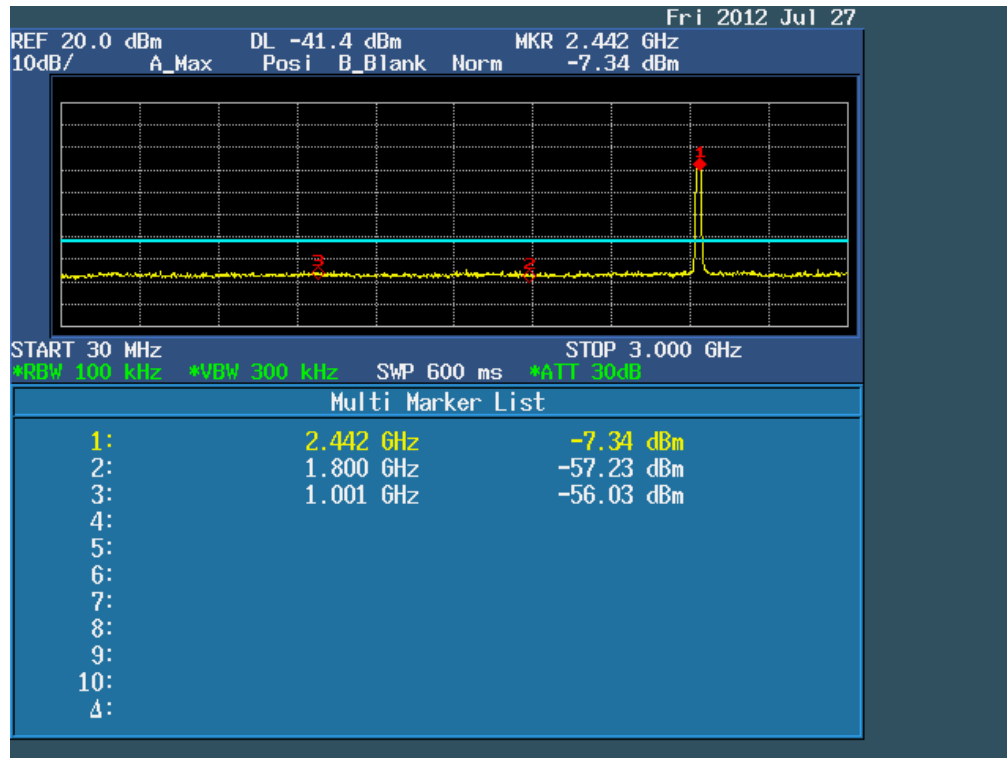
802.11n (20MHz \ 7.2Mbps)
The High Channel 11: 2462MHz



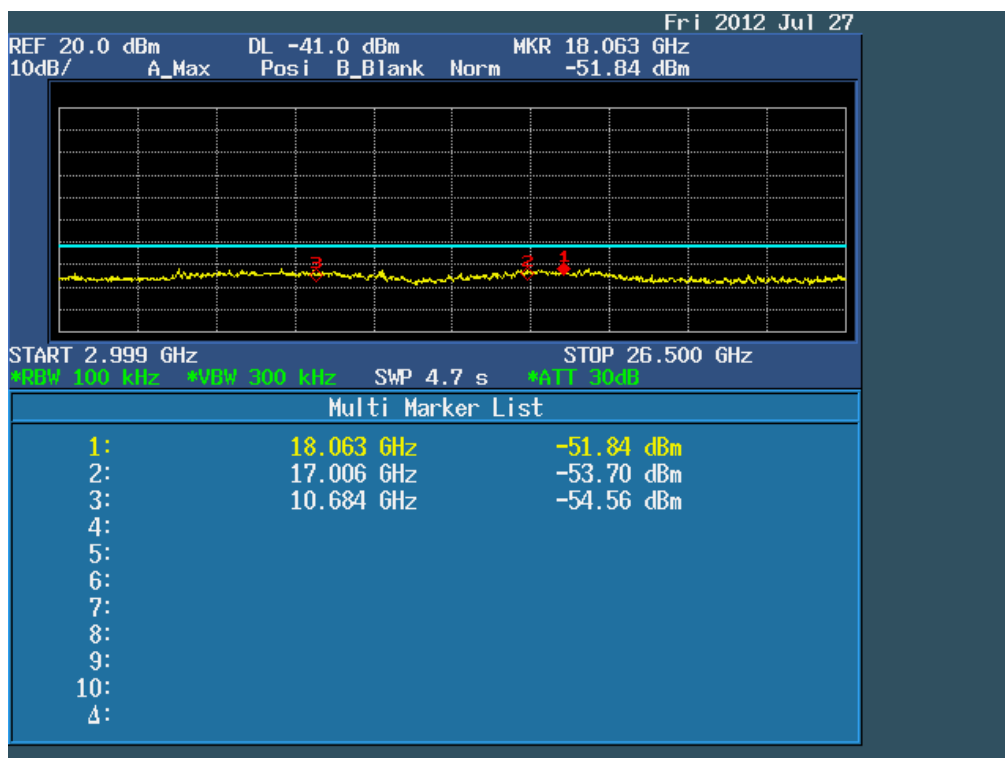
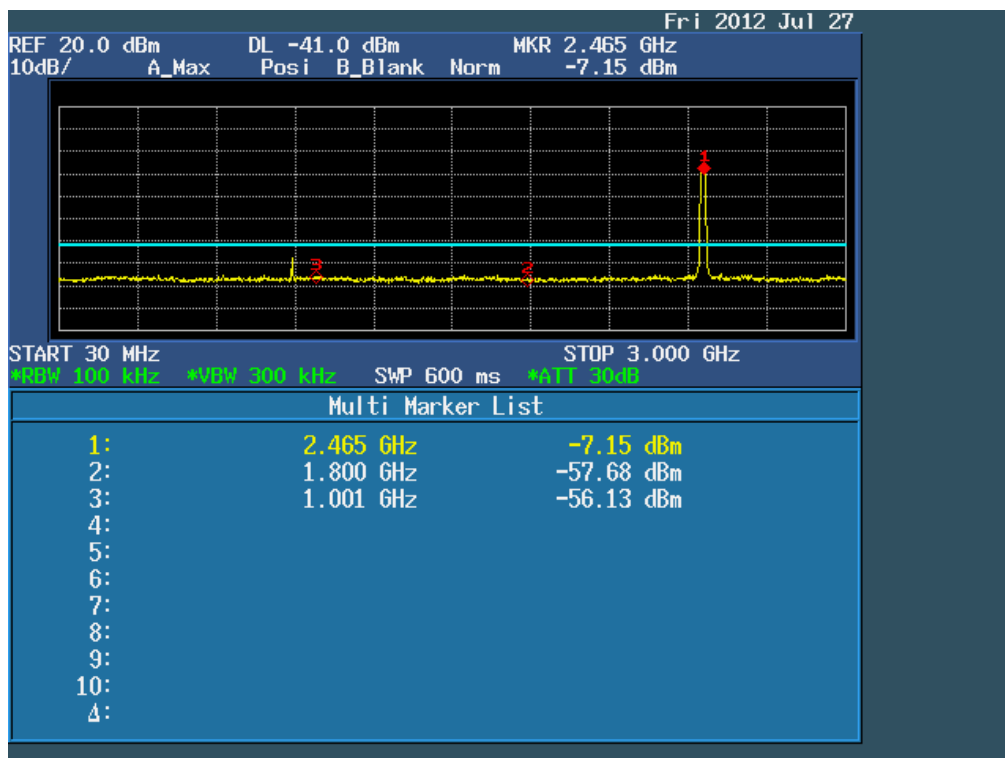
802.11n (20MHz \ 72.2Mbps)
The Lowest Channel 01: 2412MHz



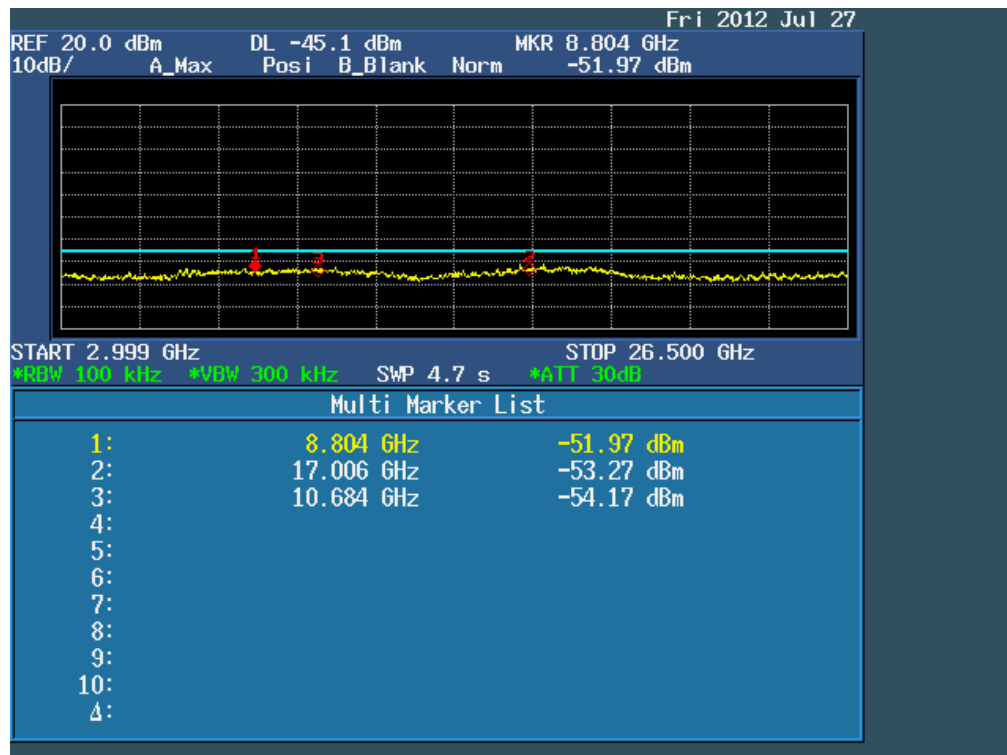
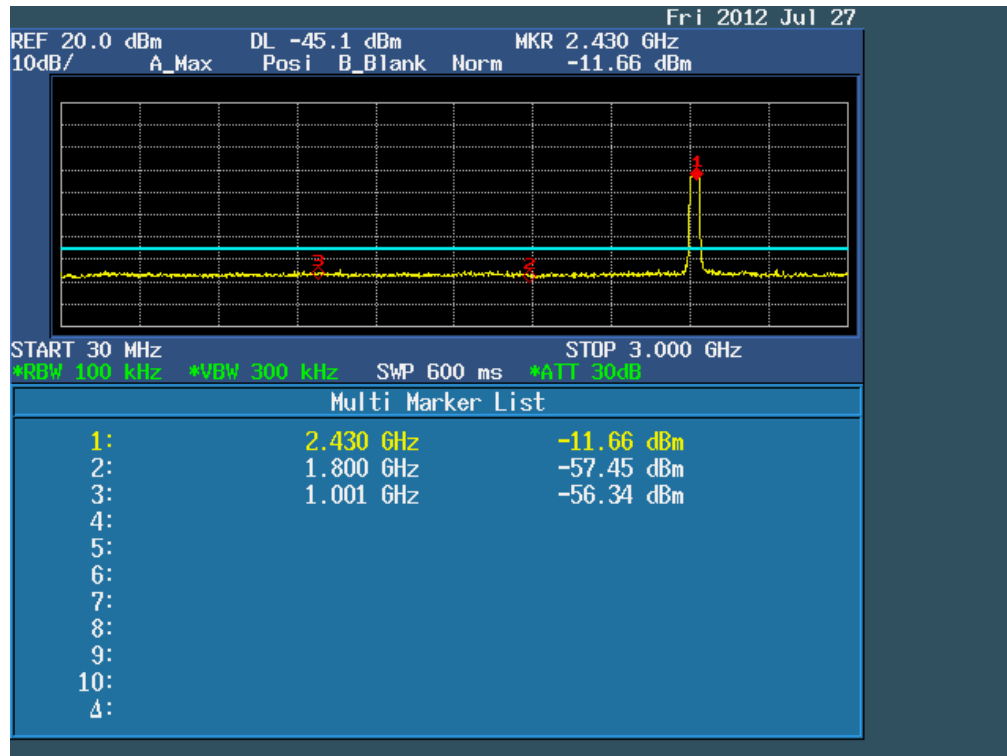
802.11n (20MHz \ 72.2Mbps)
The Middle Channel 06: 2437MHz



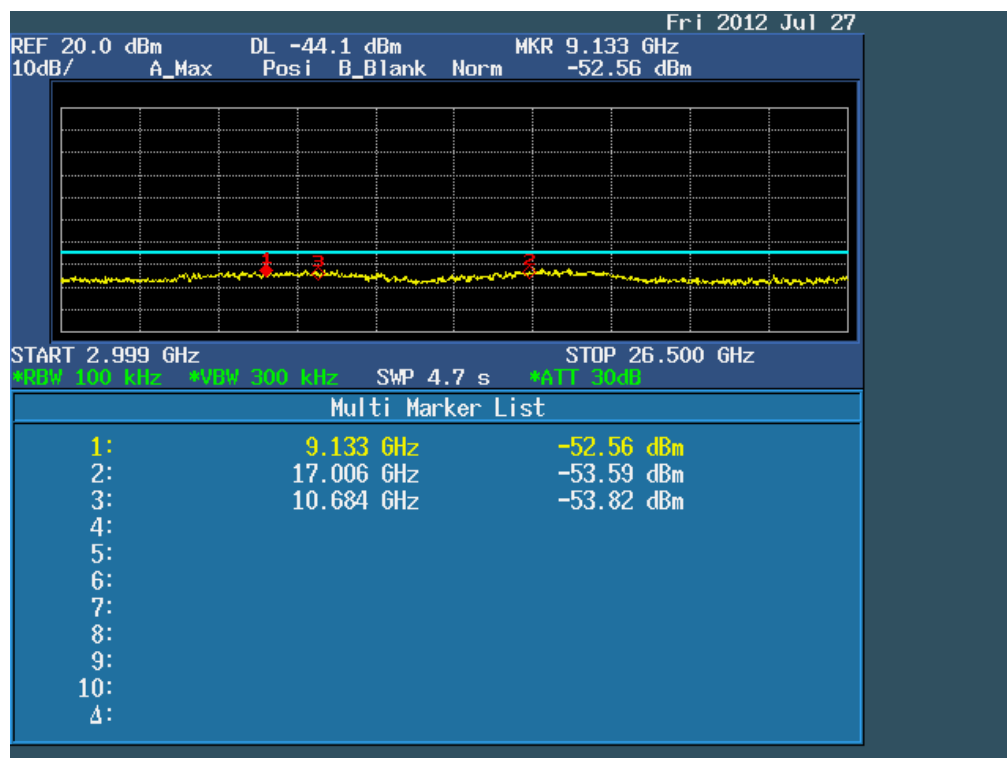
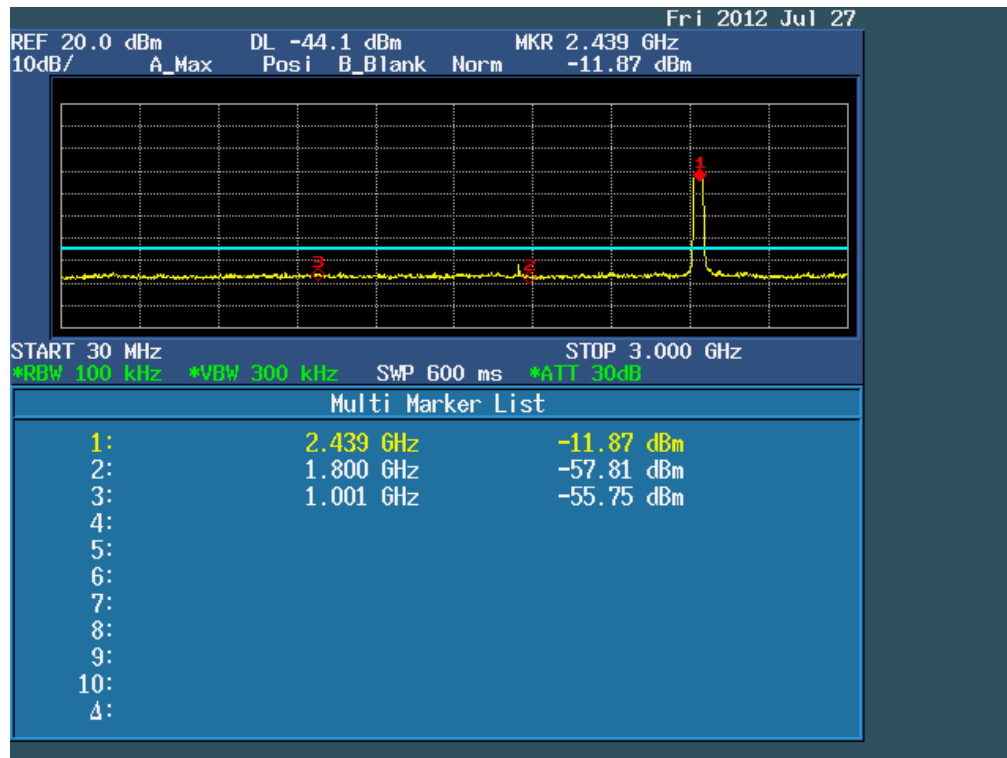
802.11n (20MHz \ 72.2Mbps)
The High Channel 11: 2462MHz



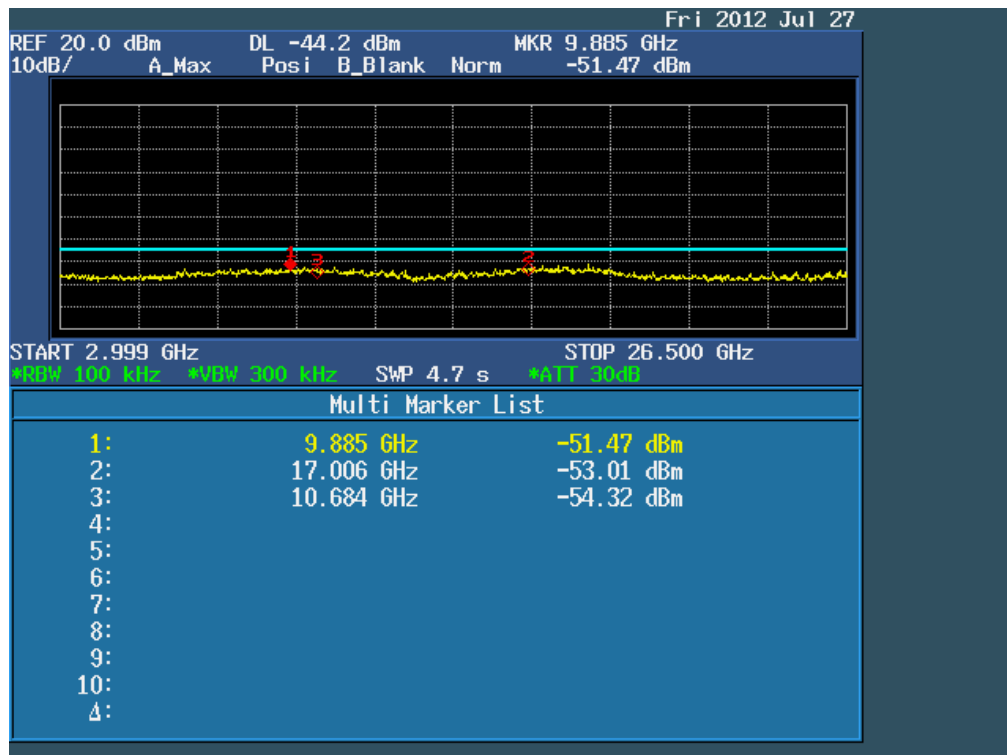
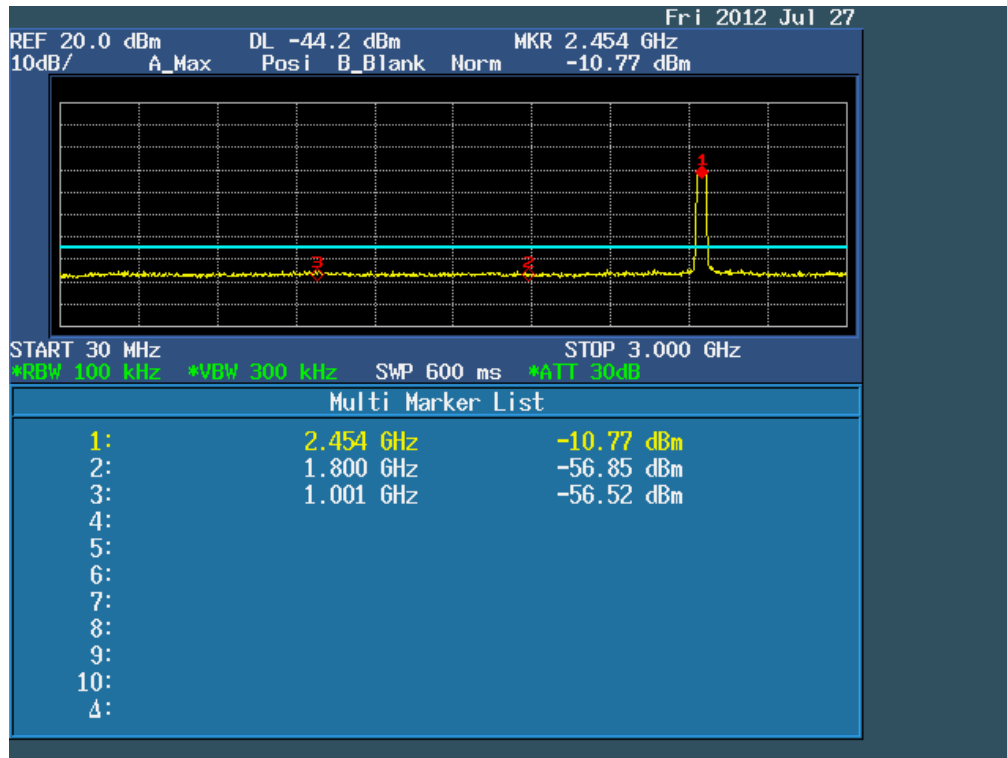
802.11n (40MHz \ 13.5Mbps)
The Lowest Channel 03: 2422MHz



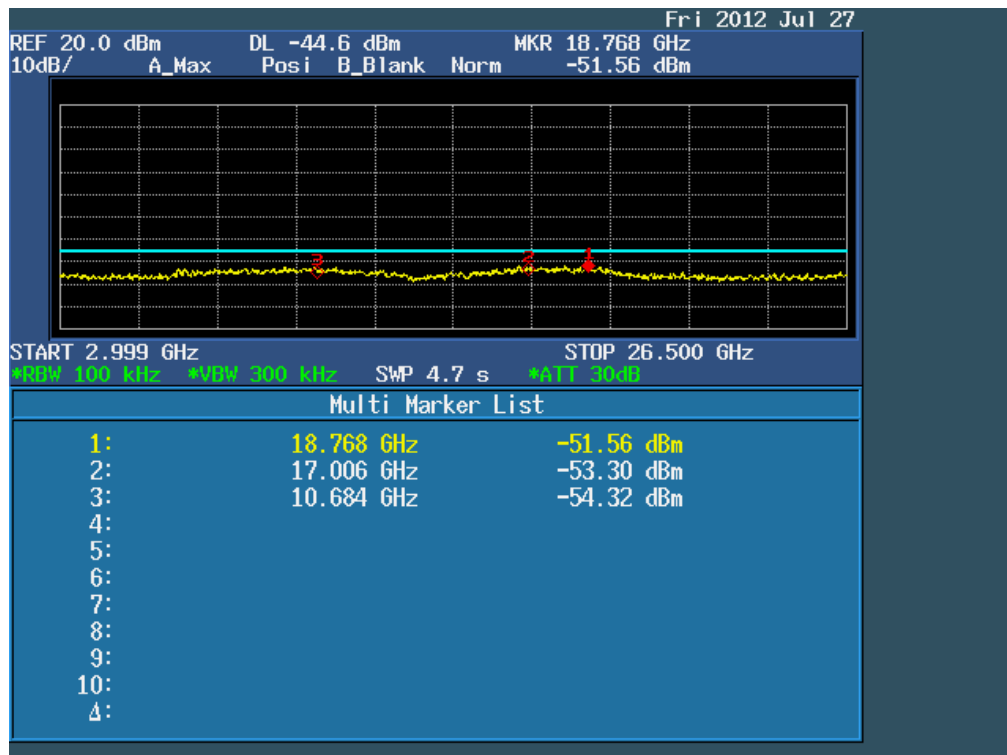
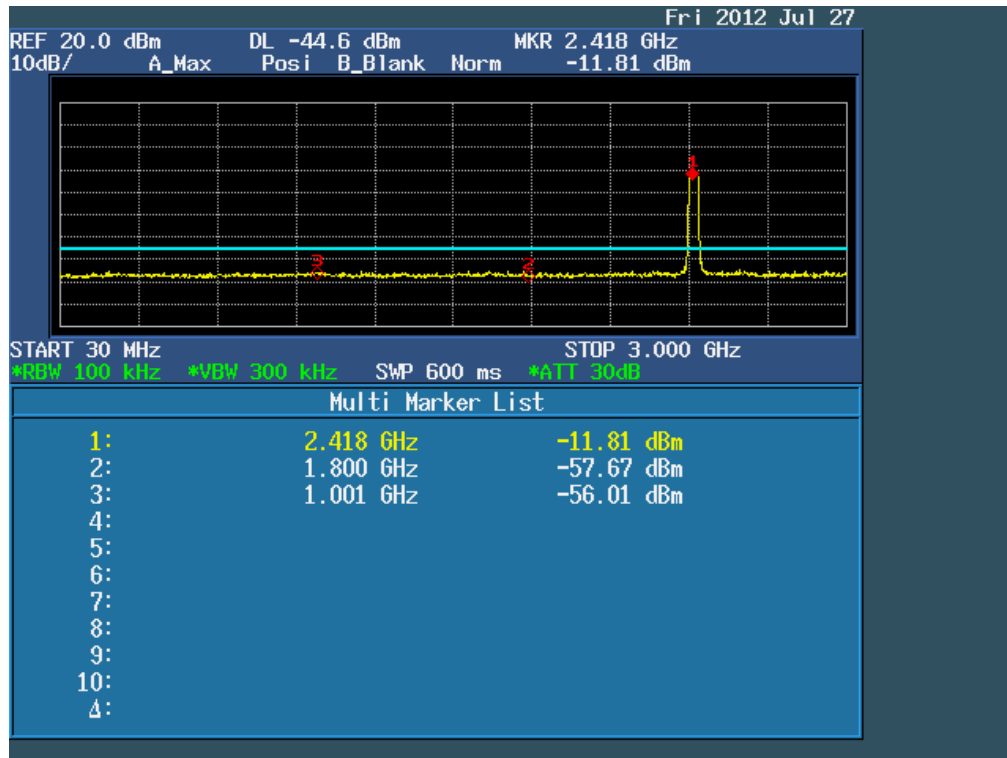
802.11n (40MHz \ 13.5Mbps)
The Middle Channel 06: 2437MHz



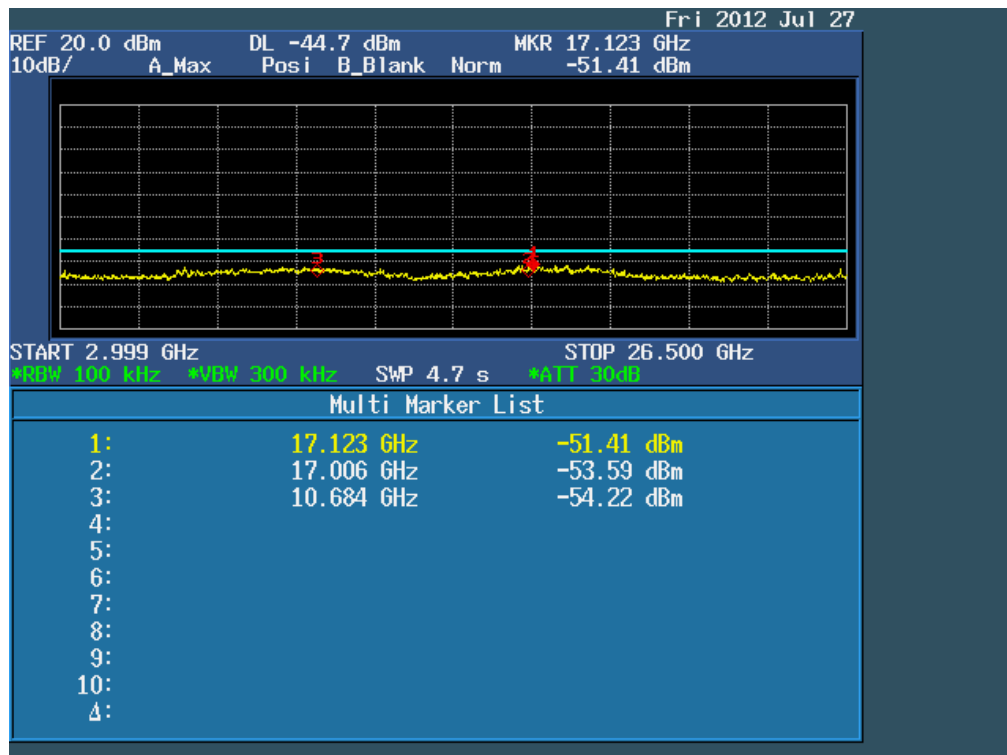
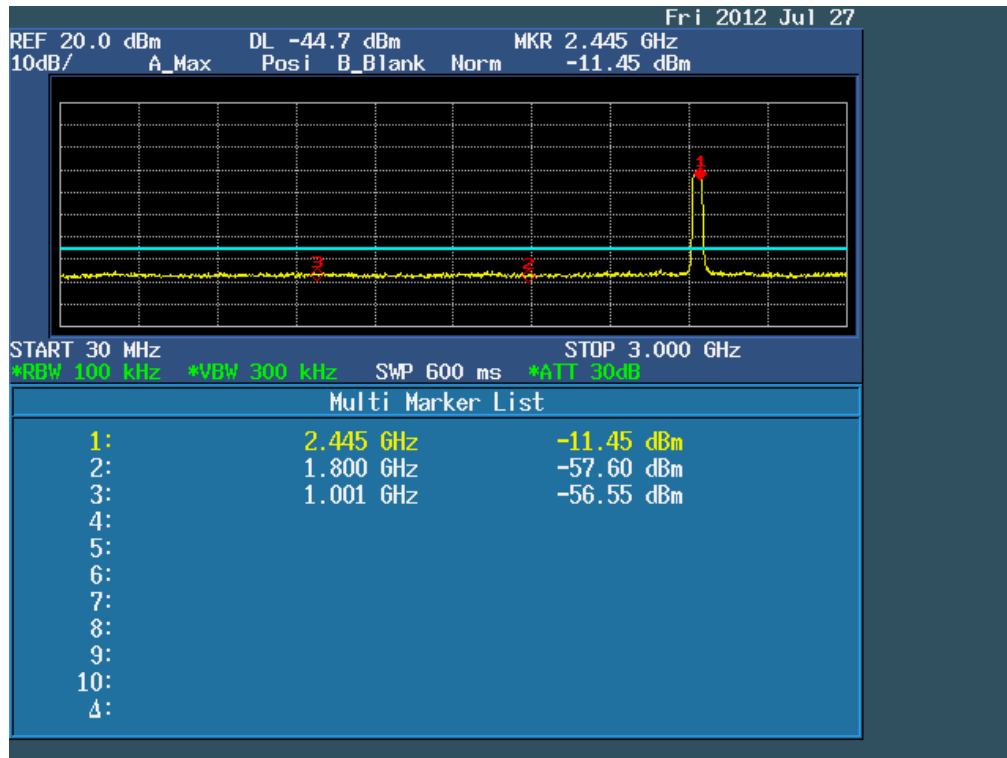
802.11n (40MHz \ 13.5Mbps)
The High Channel 09: 2452MHz



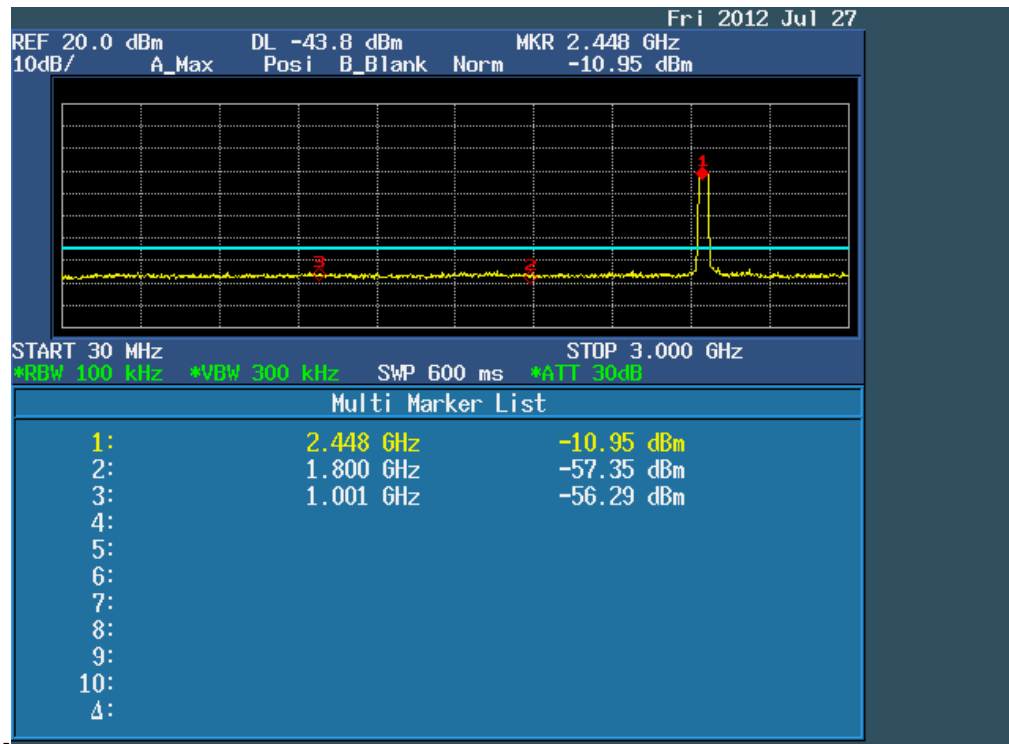
802.11n (40MHz \ 135Mbps)
The Lowest Channel 03: 2422MHz



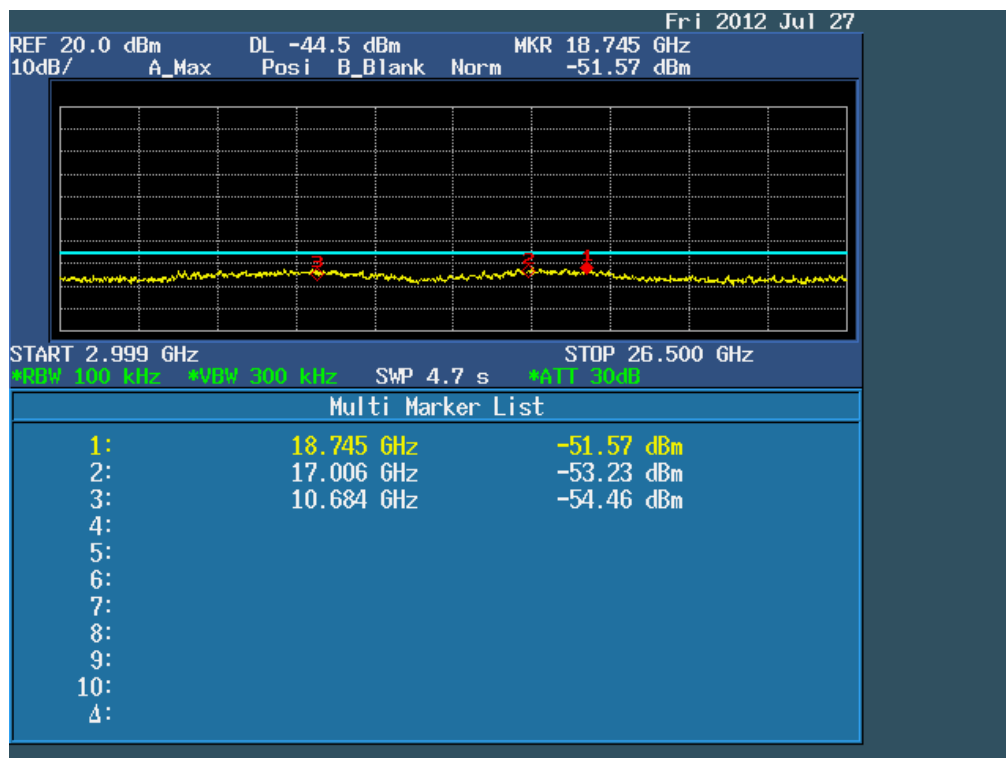
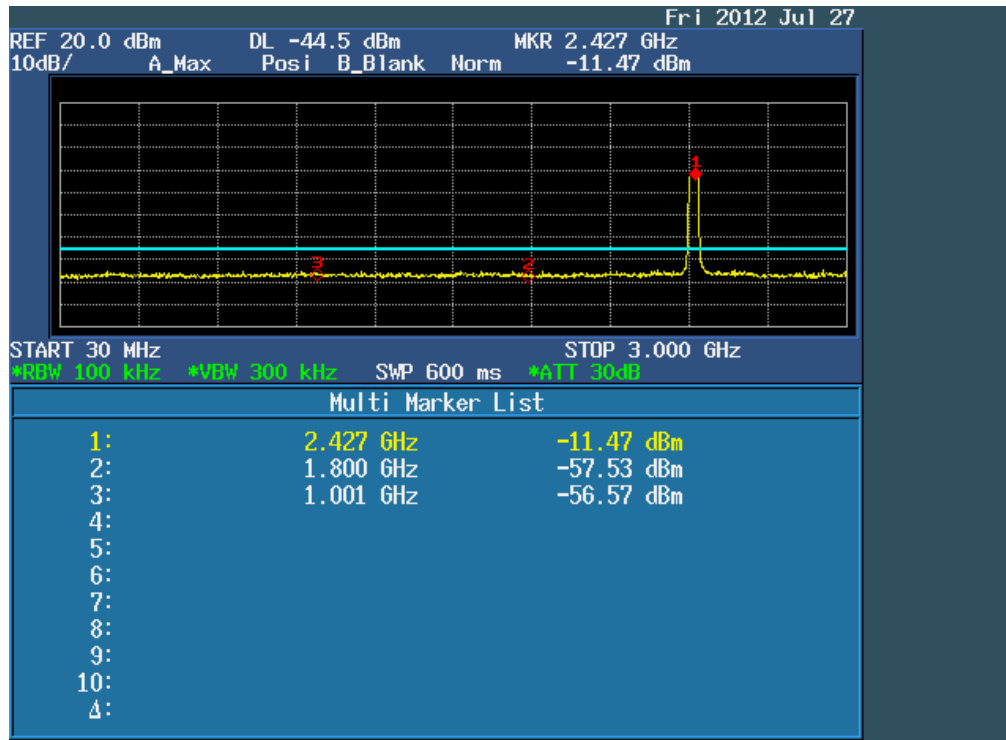
802.11n (40MHz \ 135Mbps)
The Middle Channel 06: 2437MHz



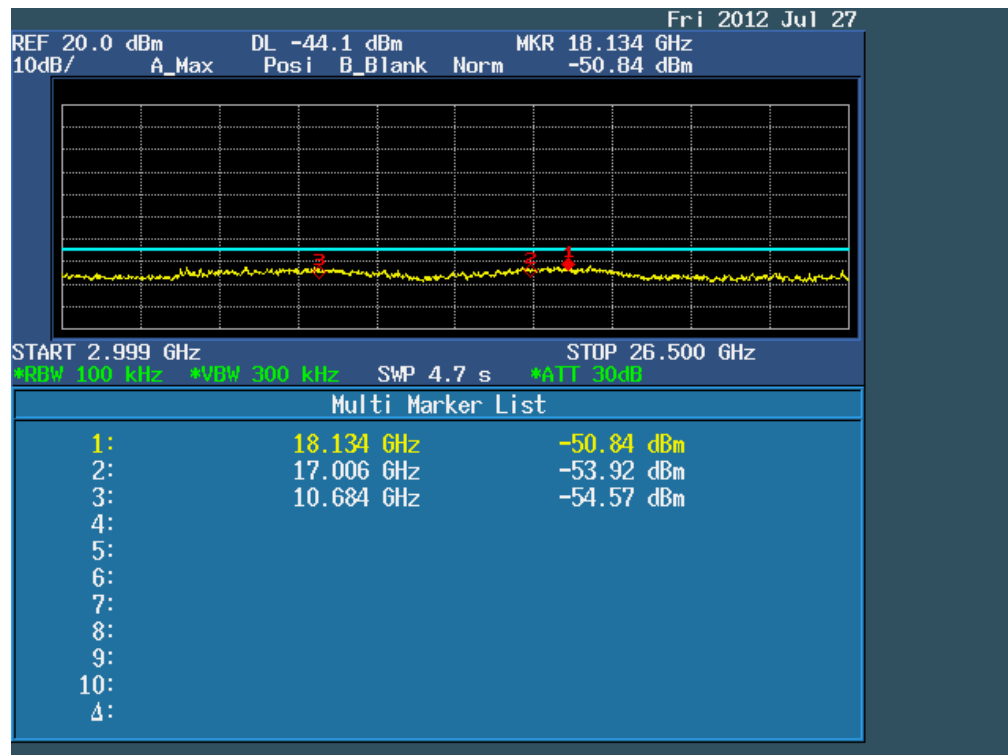
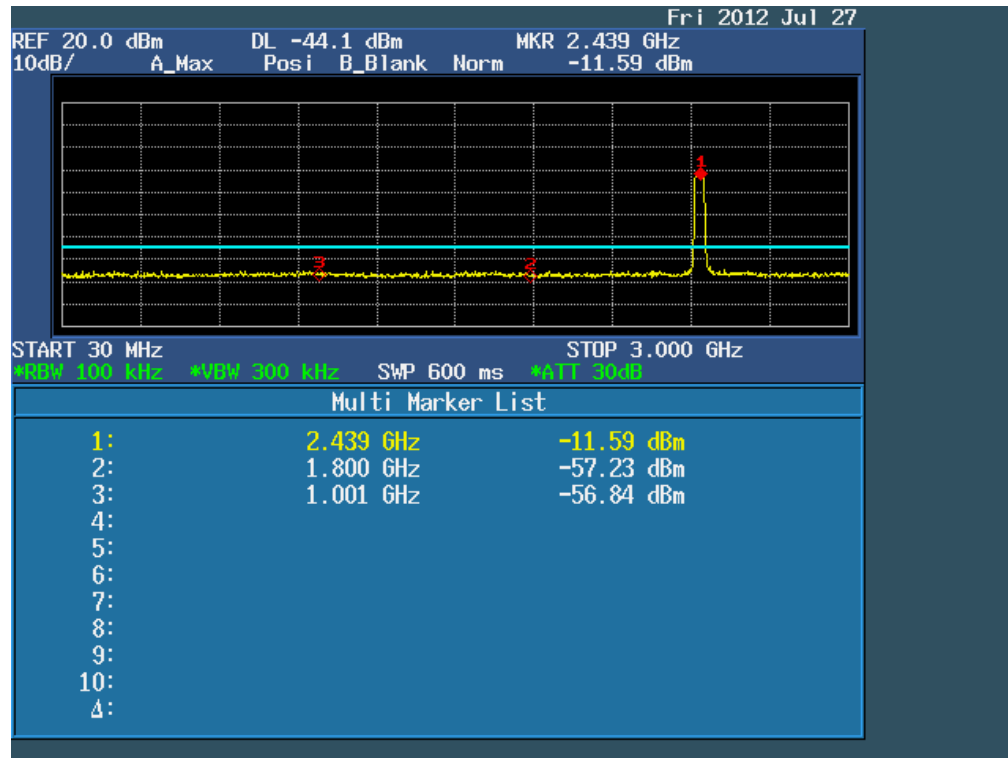
802.11n (40MHz \ 135Mbps)
The High Channel 09: 2452MHz



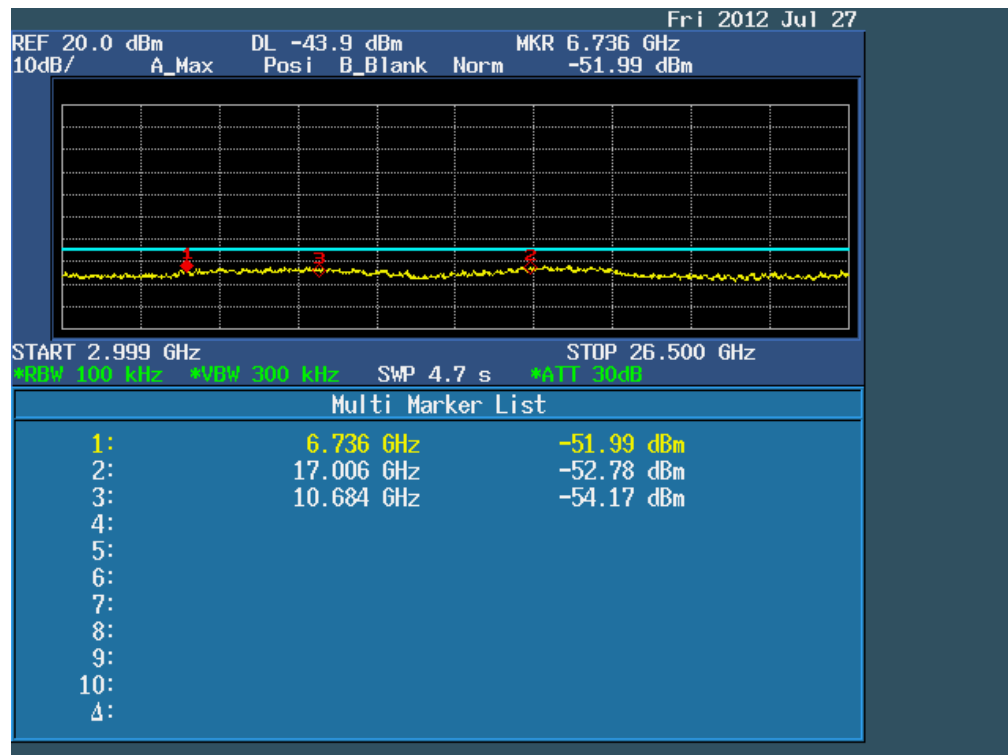
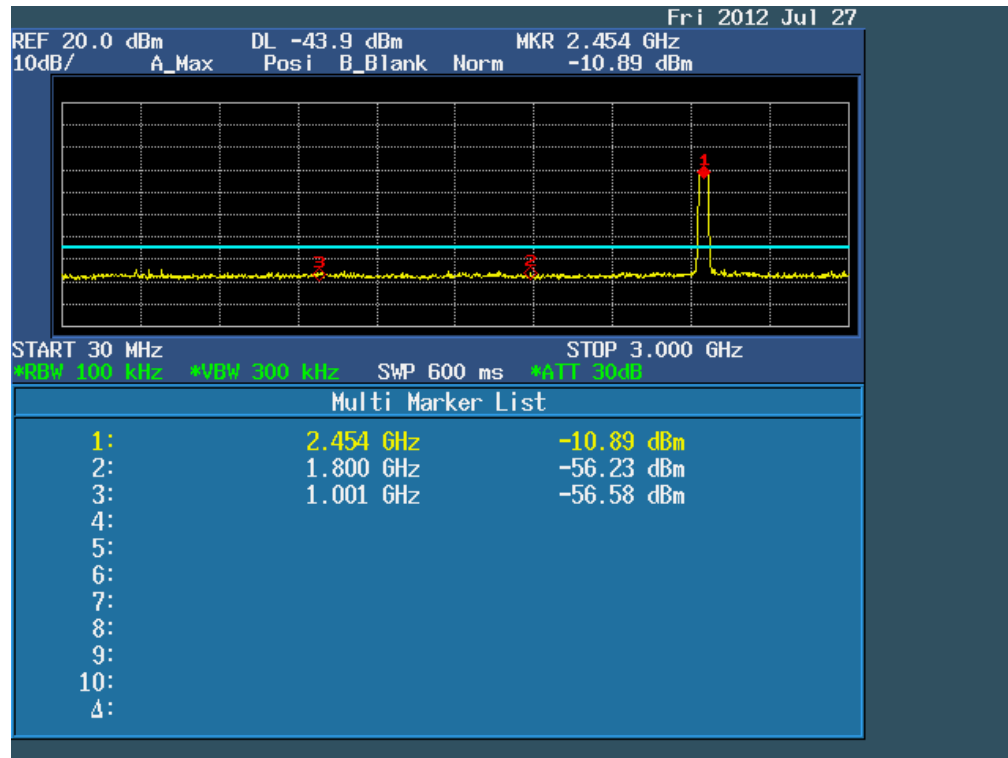
802.11n (40MHz \ 15Mbps)
The Lowest Channel 03: 2422MHz



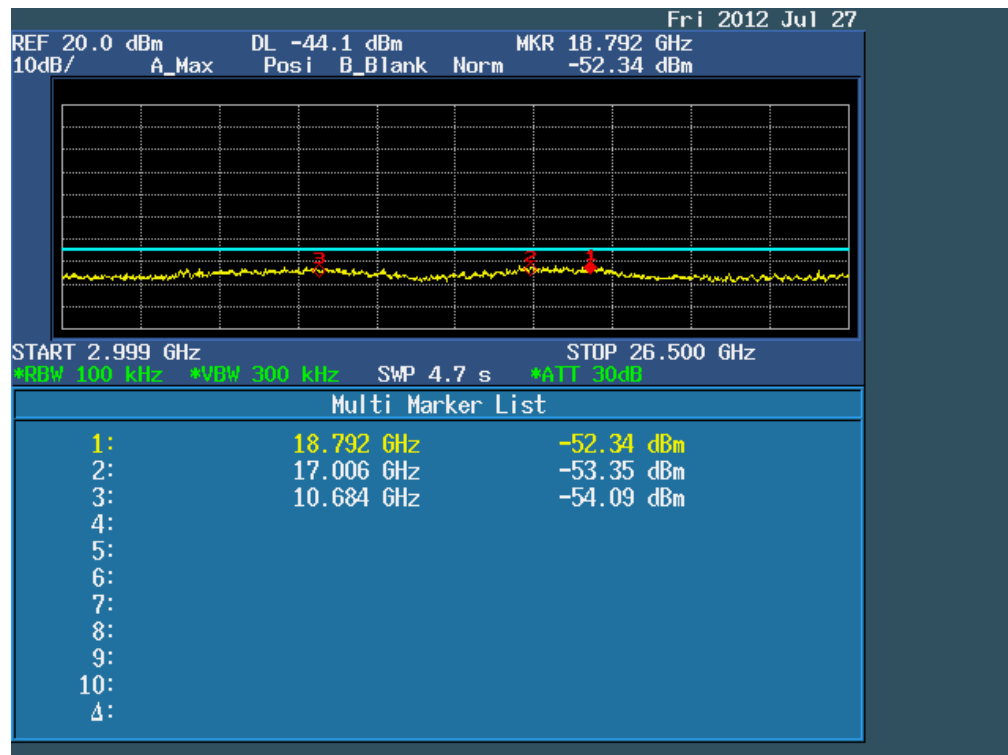
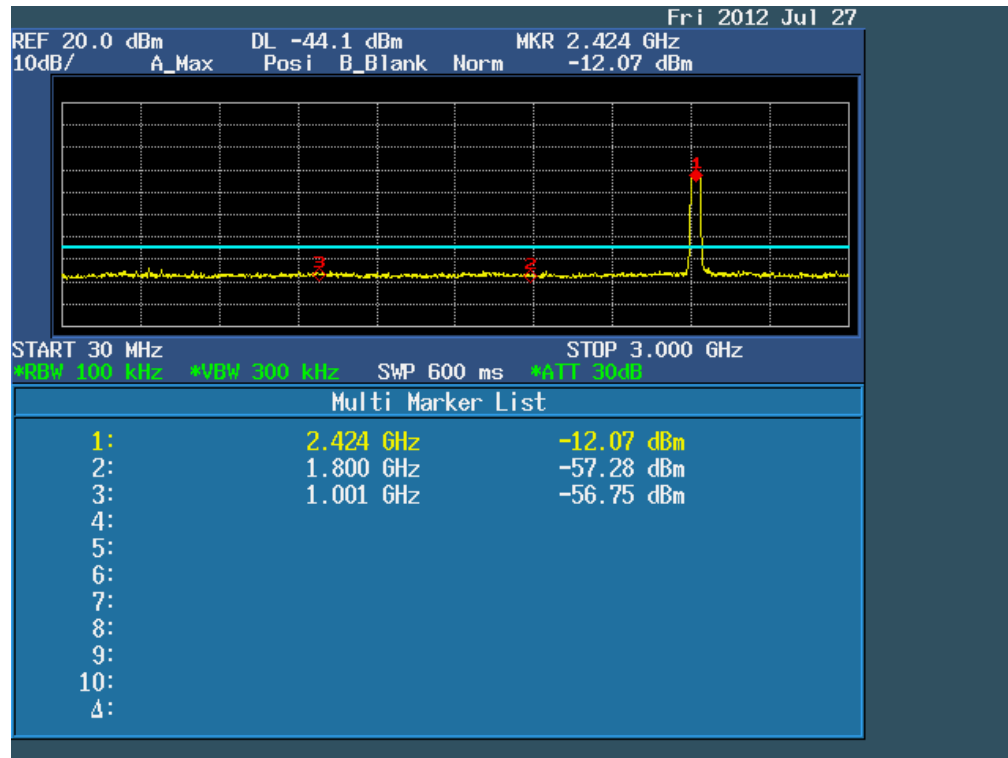
802.11n (40MHz \ 15Mbps)
The Middle Channel 06: 2437MHz



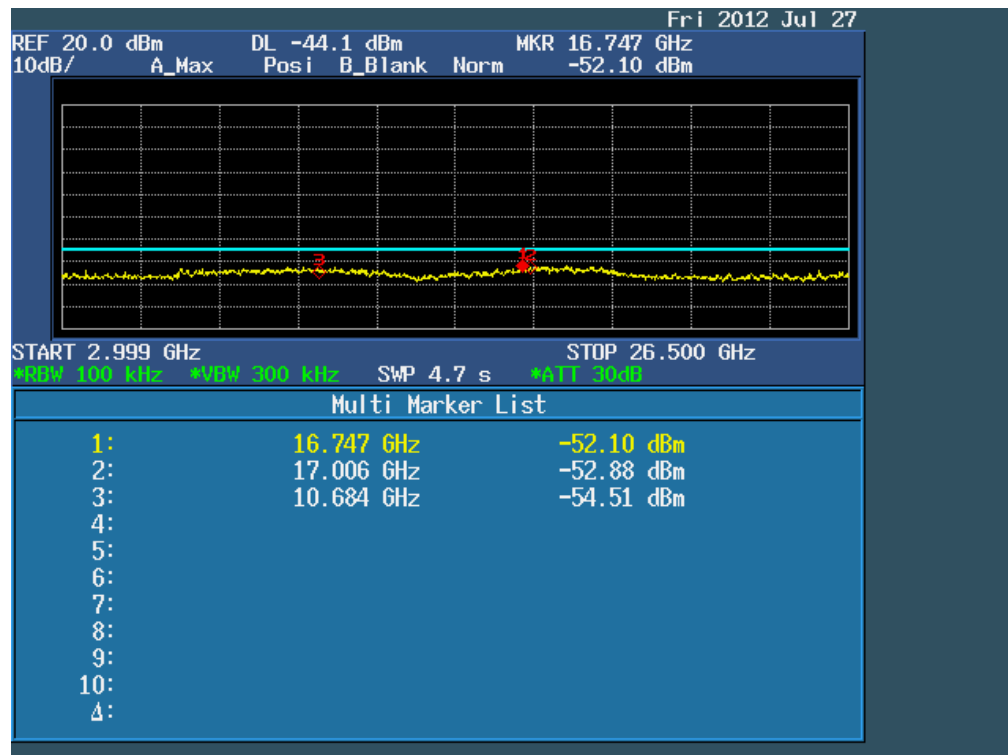
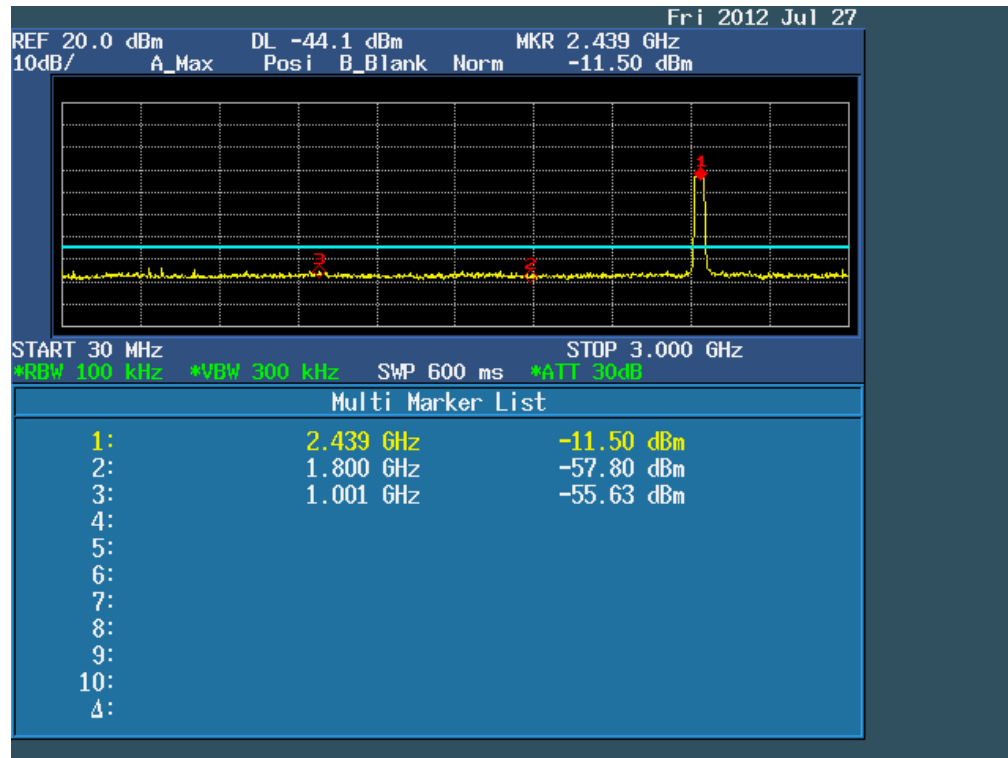
802.11n (40MHz \ 15Mbps)
The High Channel 09: 2452MHz



802.11n (40MHz \ 150Mbps)
The Lowest Channel 03: 2422MHz



802.11n (40MHz \ 150Mbps)
The Middle Channel 06: 2437MHz



802.11n (40MHz \ 150Mbps)
The High Channel 09: 2452MHz

