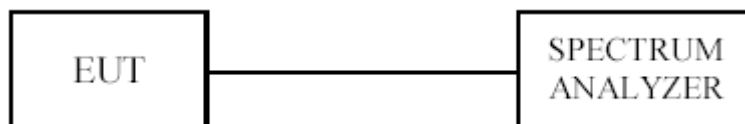




9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW $\geq$ 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be $\leq$ 8 dBm.

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9.4 Test Result

EUT		WiFi Speaker		Model		X10	
Mode		802.11b 11Mbps		Input Voltage		DC13.5V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)		Final RF Power Level (dBm)		Maximum Limit (dBm)		Pass/ Fail
11Mbps							
1	2412		-14.81		8		Pass
6	2437		-16.38		8		Pass
11	2462		-16.17		8		Pass

EUT		WiFi Speaker		Model		X10	
Mode		802.11b 1Mbps		Input Voltage		DC13.5V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)		Final RF Power Level in (dBm)		Maximum Limit (dBm)		Pass/ Fail
1Mbps							
1	2412		-16.07		8		Pass
6	2437		-15.62		8		Pass
11	2462		-14.80		8		Pass

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EUT	WiFi Speaker	Model	X10	
Mode	802.11g 54Mbps	Input Voltage	DC13.5V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level in (dBm)	Maximum Limit (dBm)	Pass/ Fail
54Mbps				
1	2412	-23.50	8	Pass
6	2437	-20.45	8	Pass
11	2462	-20.89	8	Pass

EUT	WiFi Speaker	Model	X10	
Mode	802.11n HT20 6.5Mbps	Input Voltage	DC13.5V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level (dBm)	Maximum Limit (dBm)	Pass/ Fail
HT20				
1	2412	-22.72	8	Pass
6	2437	-21.37	8	Pass
11	2462	-21.67	8	Pass

EUT	WiFi Speaker	Model	X10	
Mode	802.11n HT40 6.5Mbps	Input Voltage	DC13.5V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level (dBm)	Maximum Limit (dBm)	Pass/ Fail
HT40				
1	2422	-24.05	8	Pass
4	2437	-23.54	8	Pass
7	2452	-23.28	8	Pass

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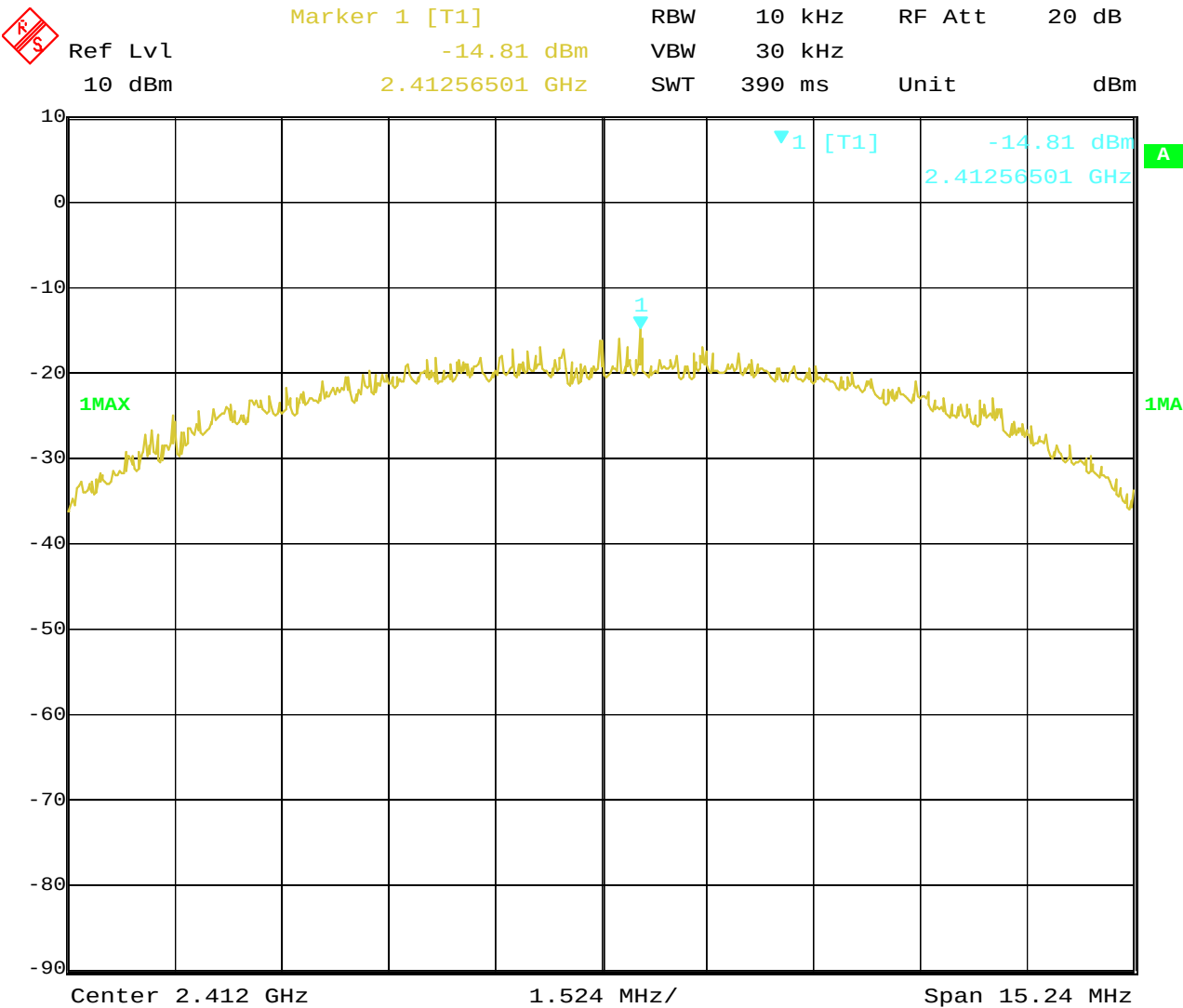
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9.5 Photo of Power Spectral Density Measurement

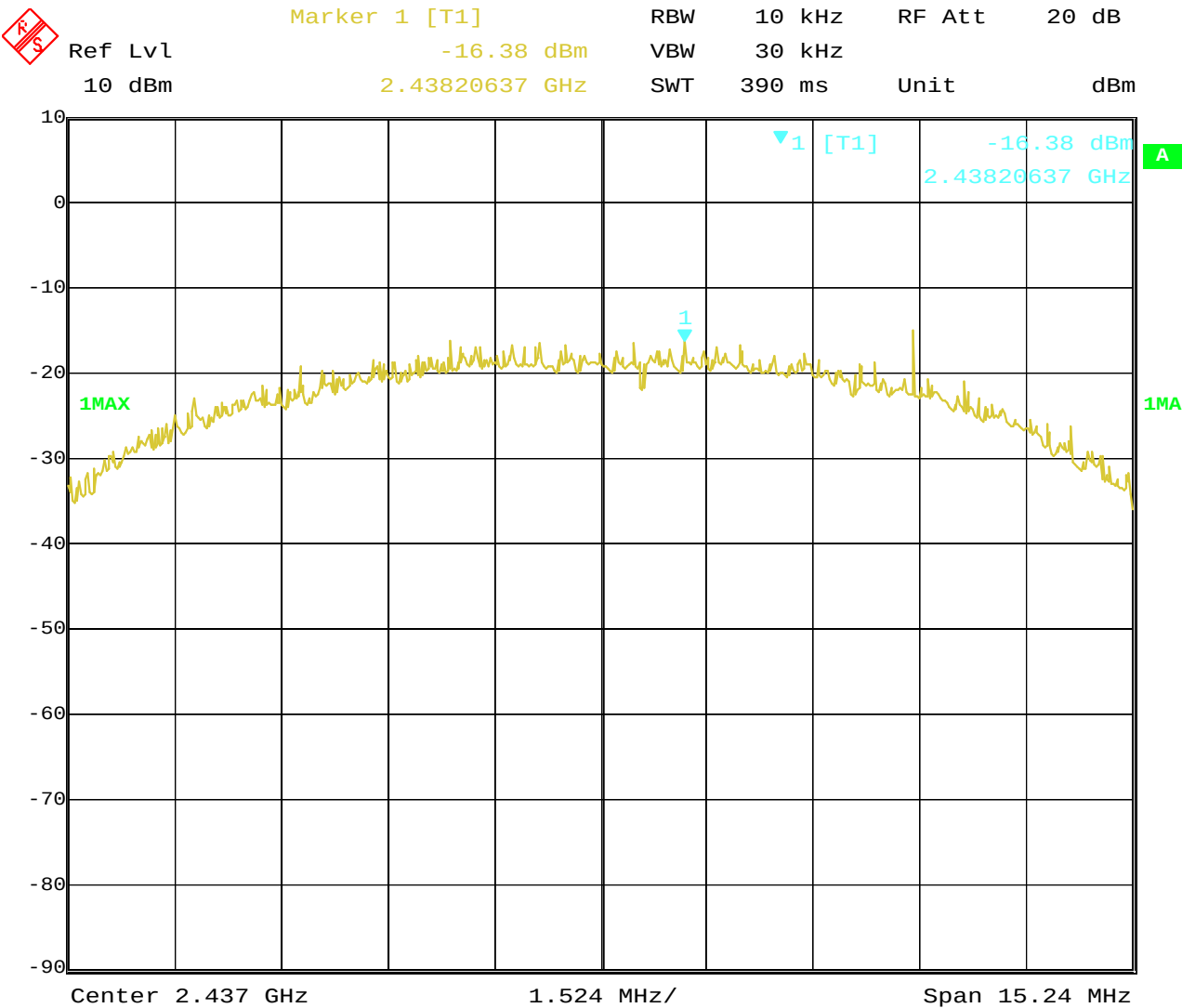
1.802.11b at 11Mbps of CH01



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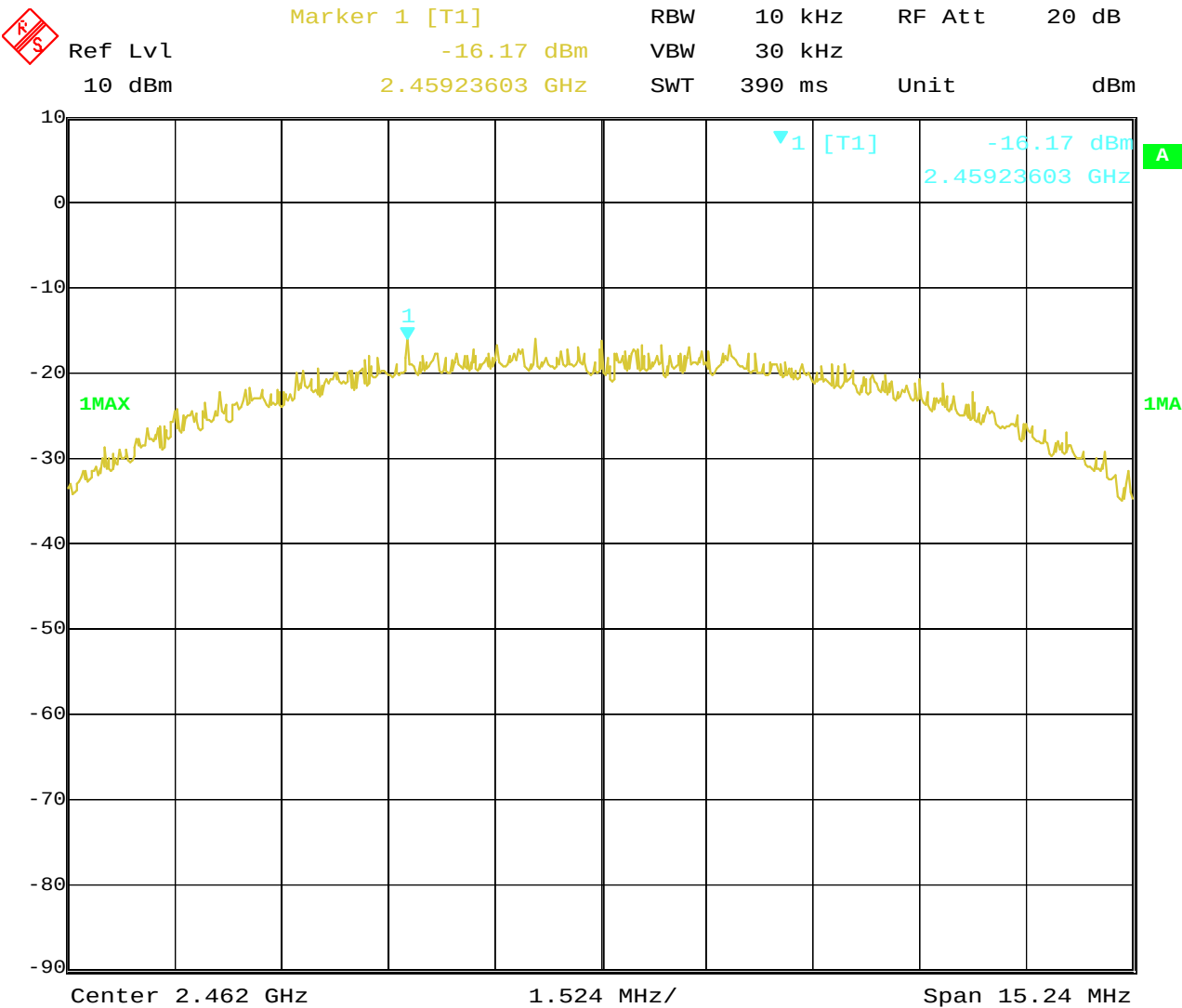
2. 802.11b at 11Mbps at CH06



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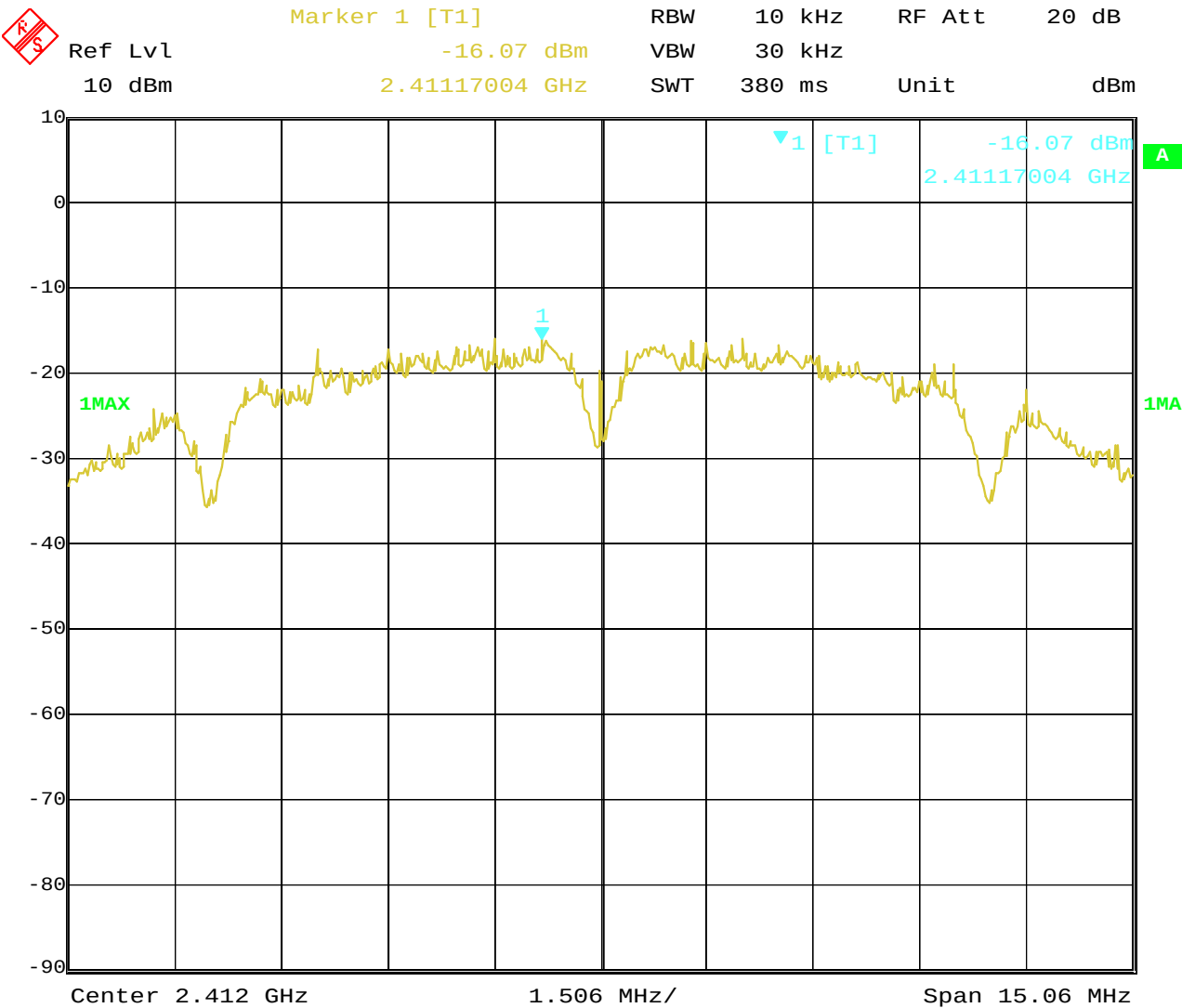
3. 802.11b at 11Mbps of CH11



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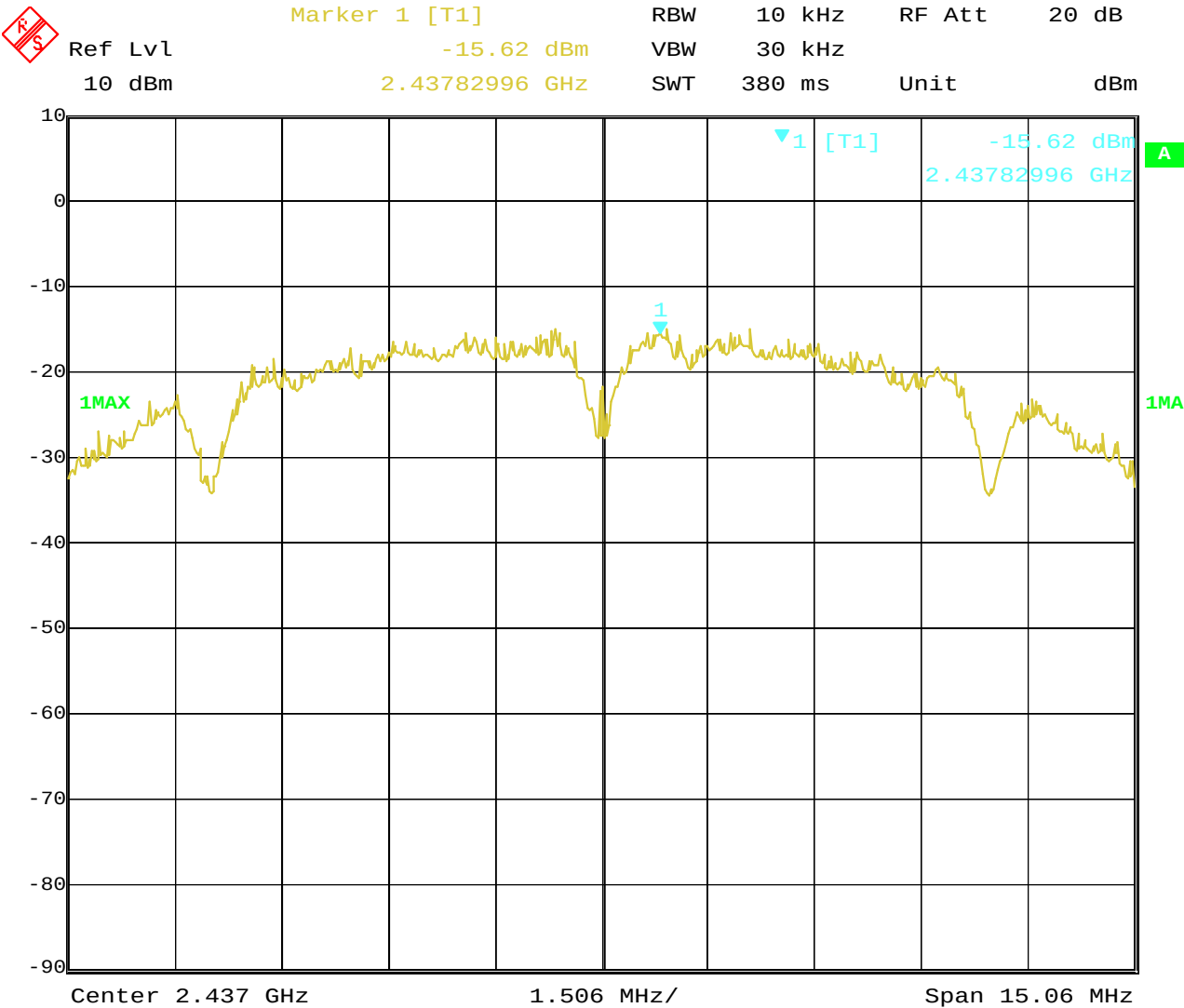
4. 802.11b at 1Mbps of CH1



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5. 802.11b at 1Mbps of CH6



Center 2.437 GHz

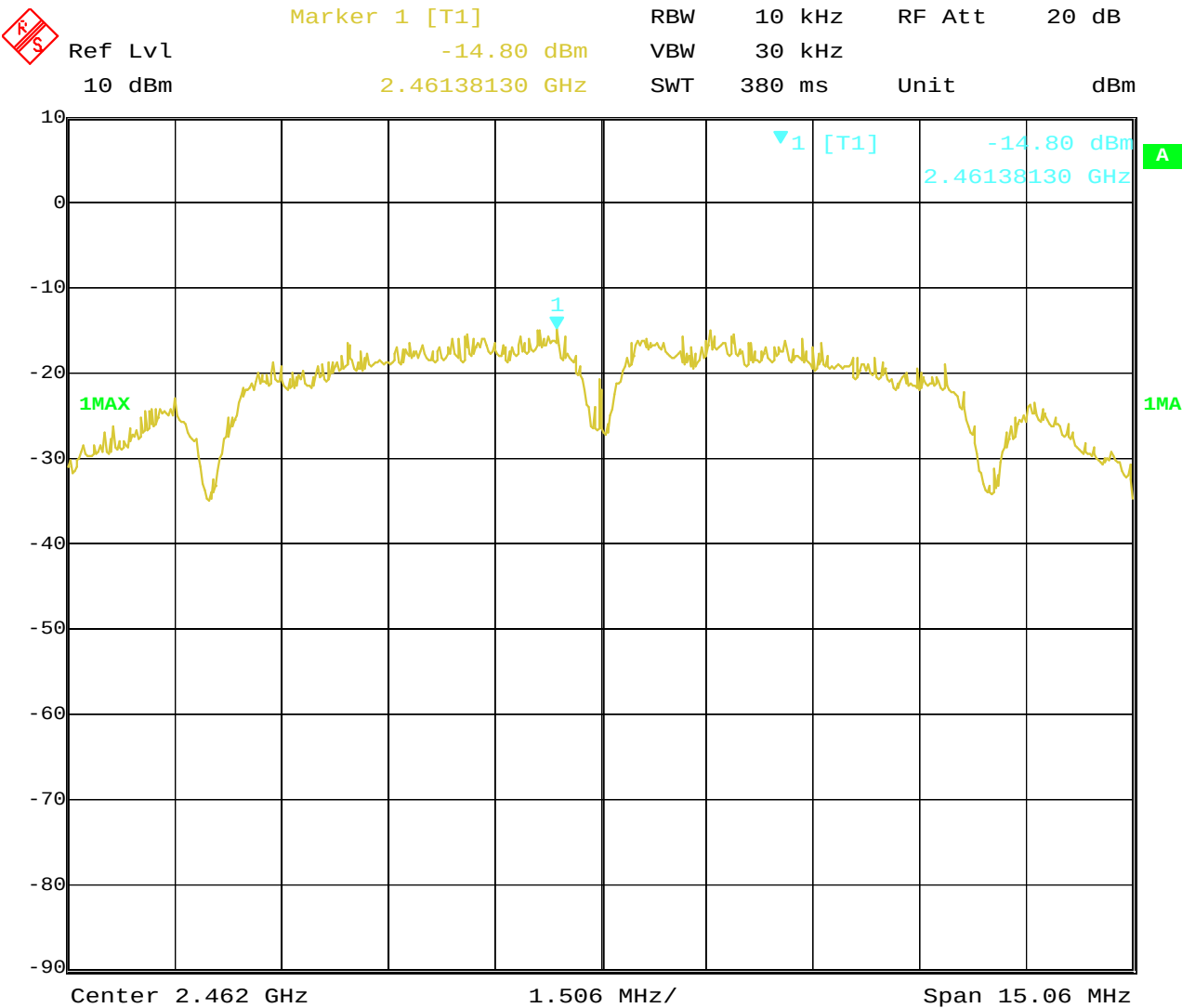
1.506 MHz/

Span 15.06 MHz

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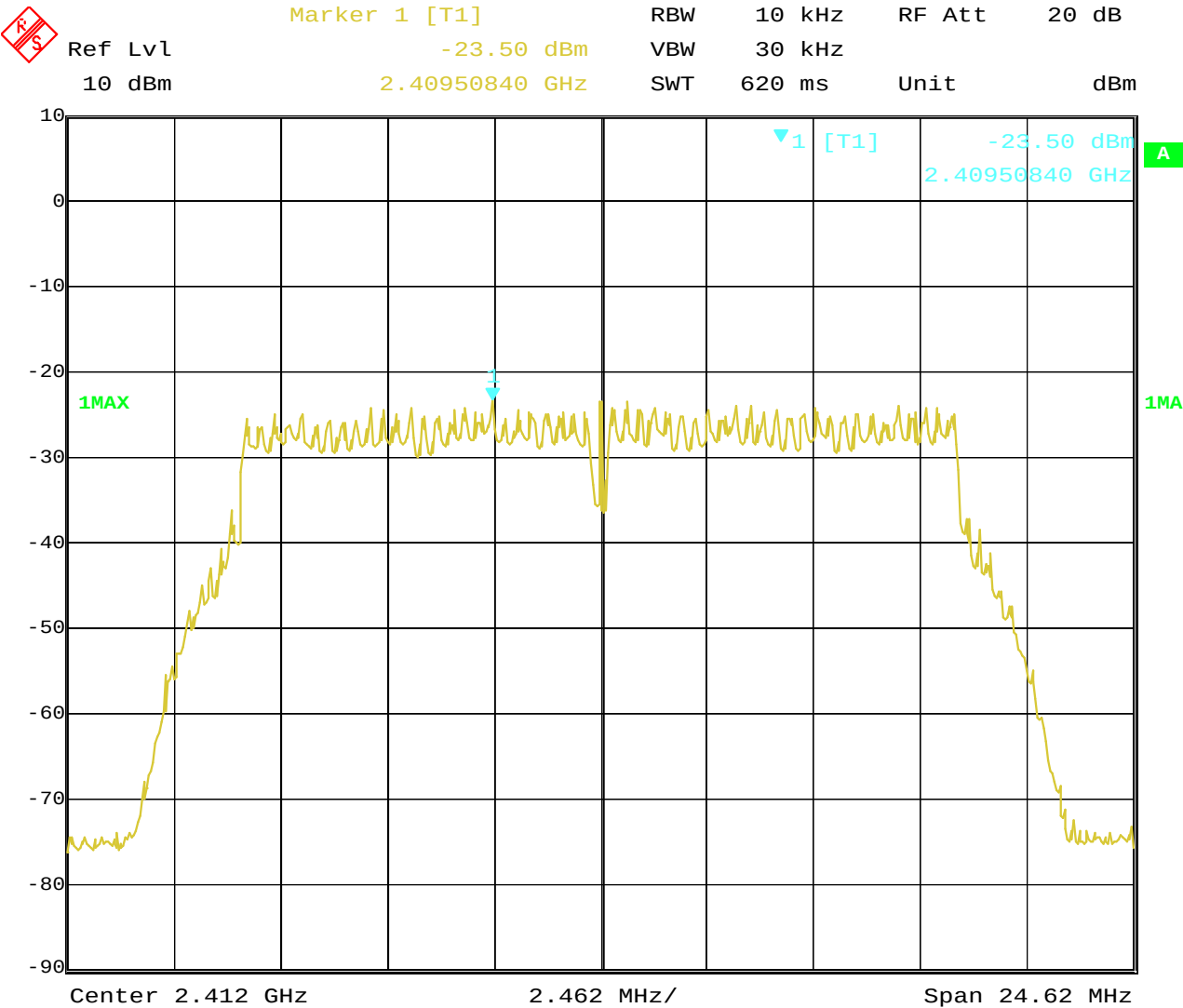
6. 802.11b at 1Mbps of CH11



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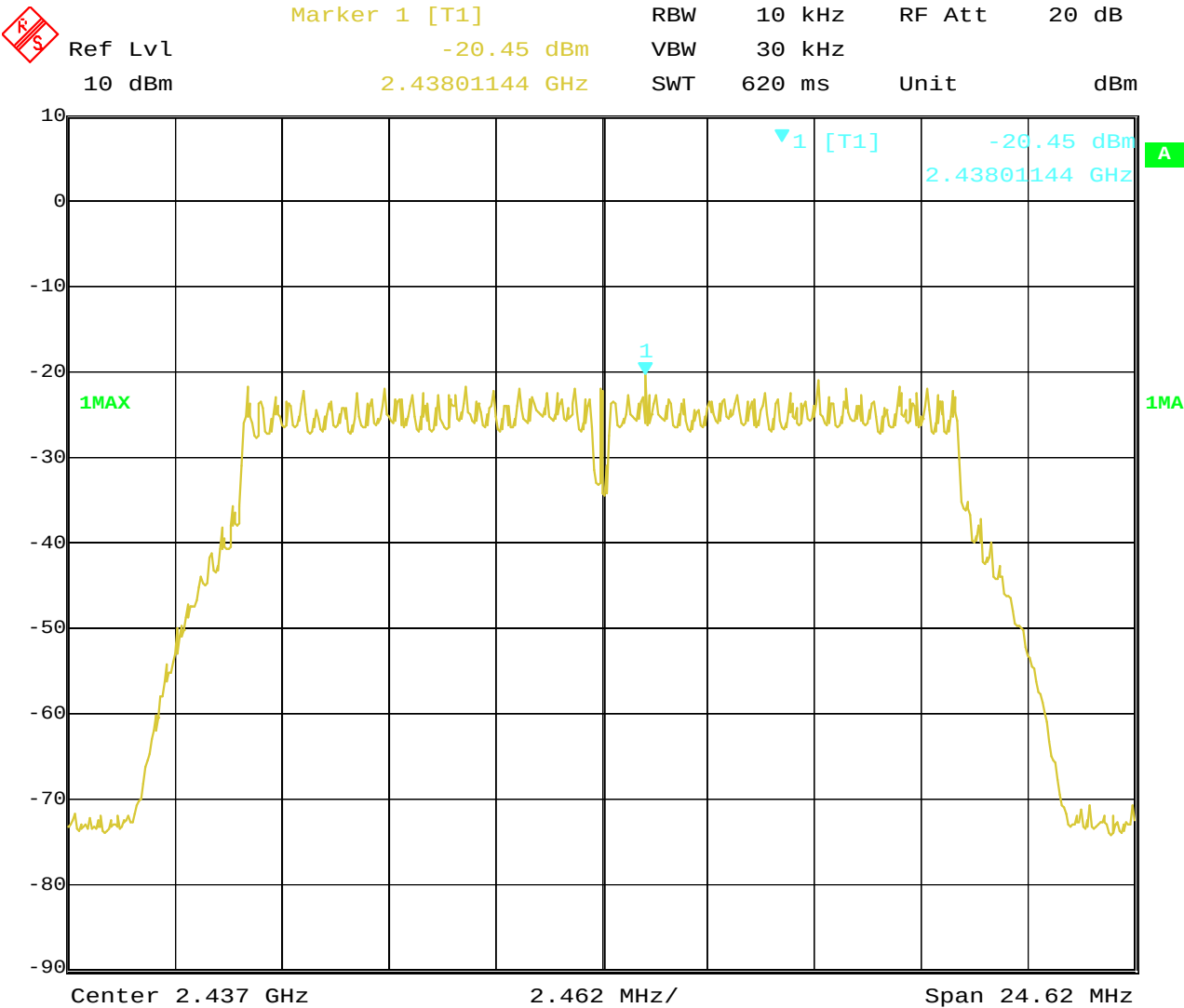
7. 802.11g at 54Mbps of CH1



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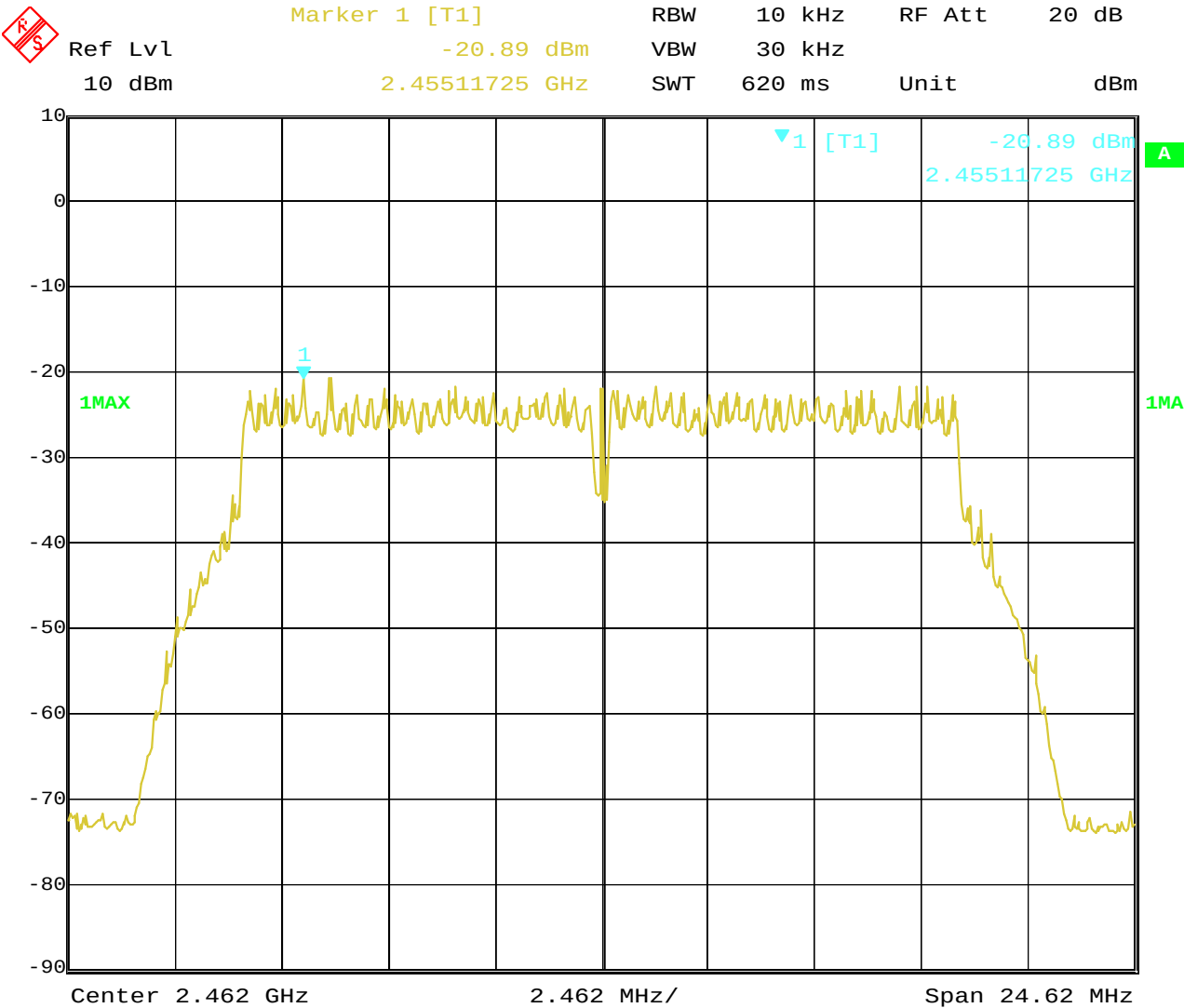
8. 802.11g at 54Mbps of CH6



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9. 802.11g at 54Mbps of CH11



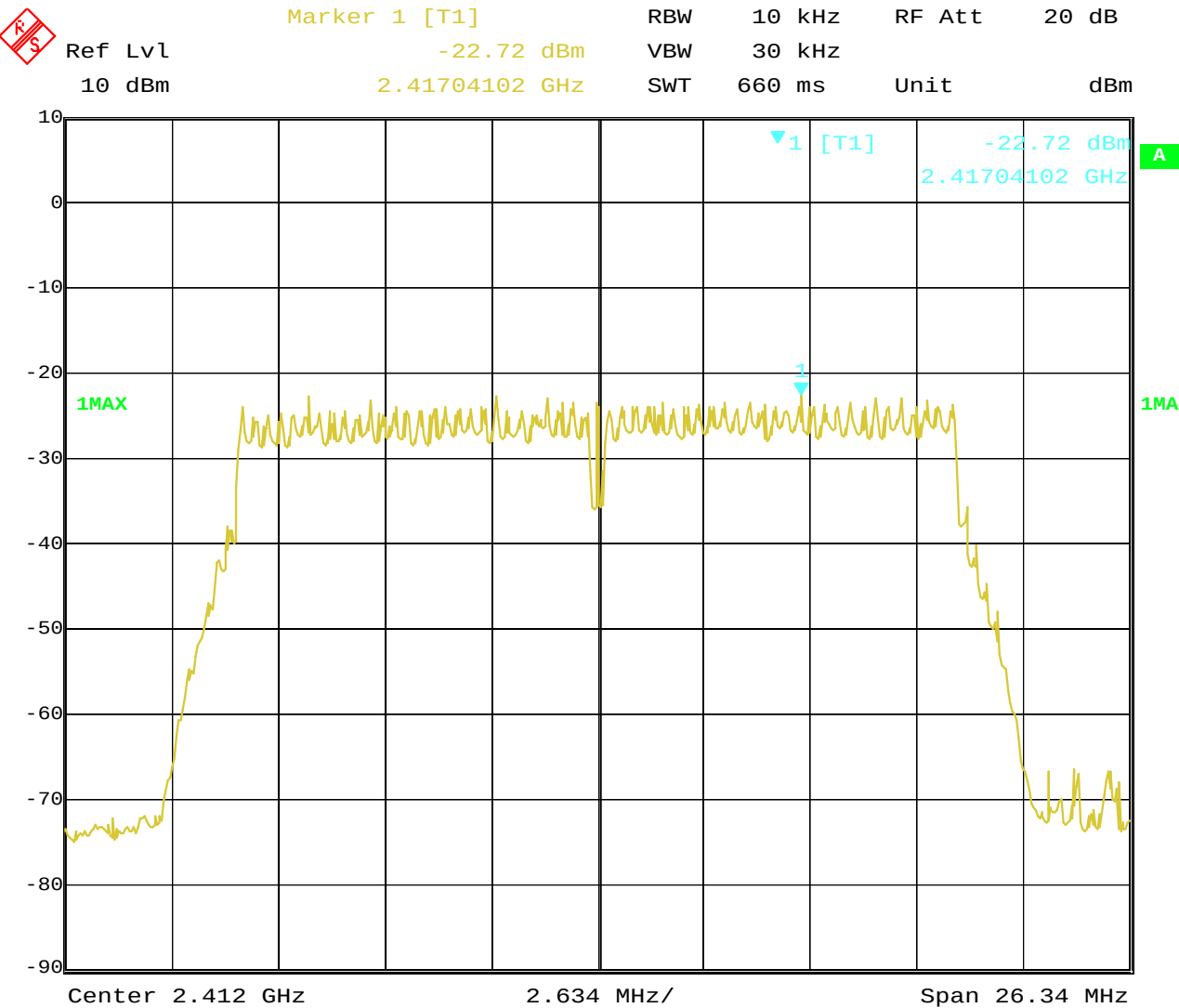
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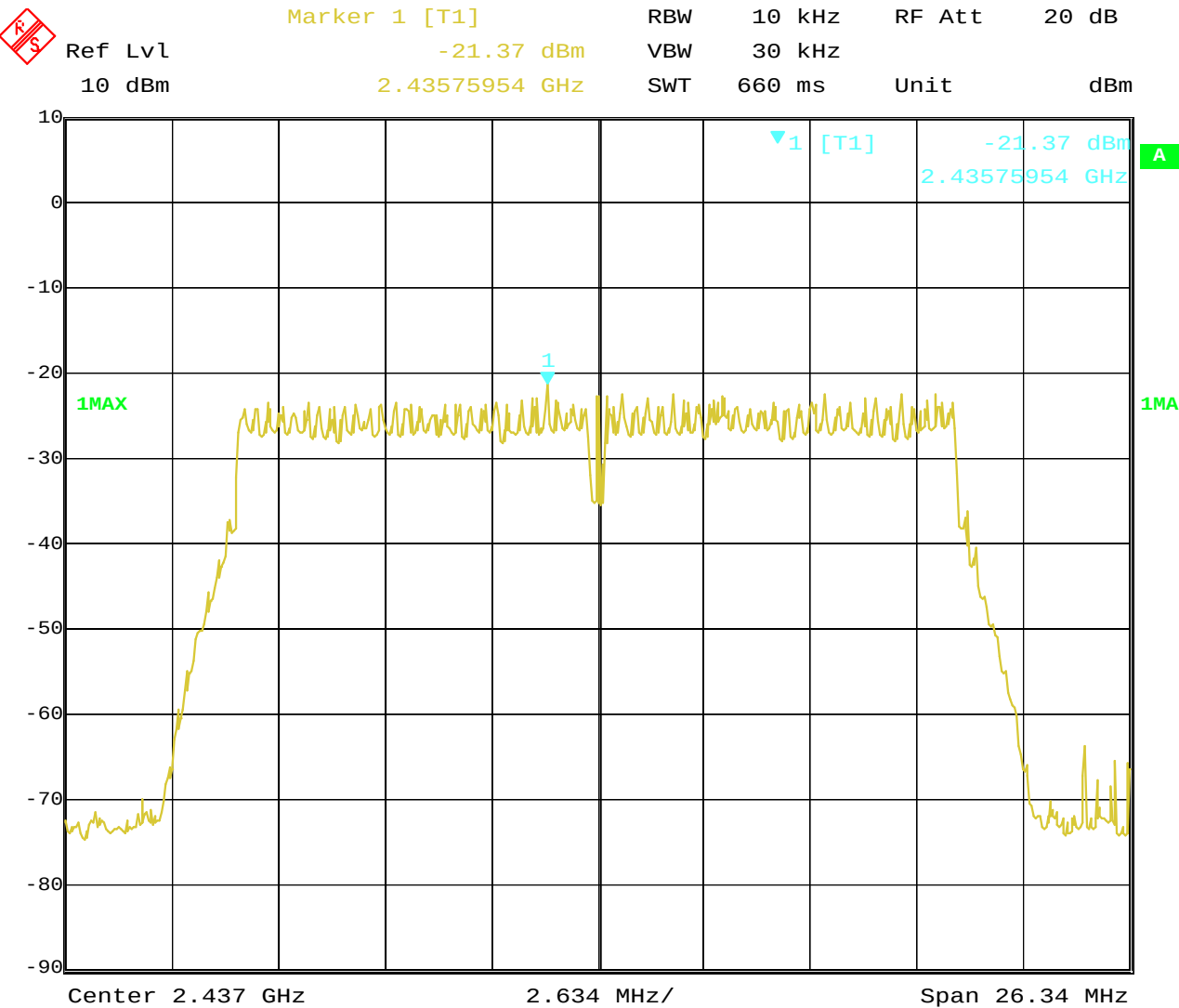
10. 802.11n at HT20 of CH01



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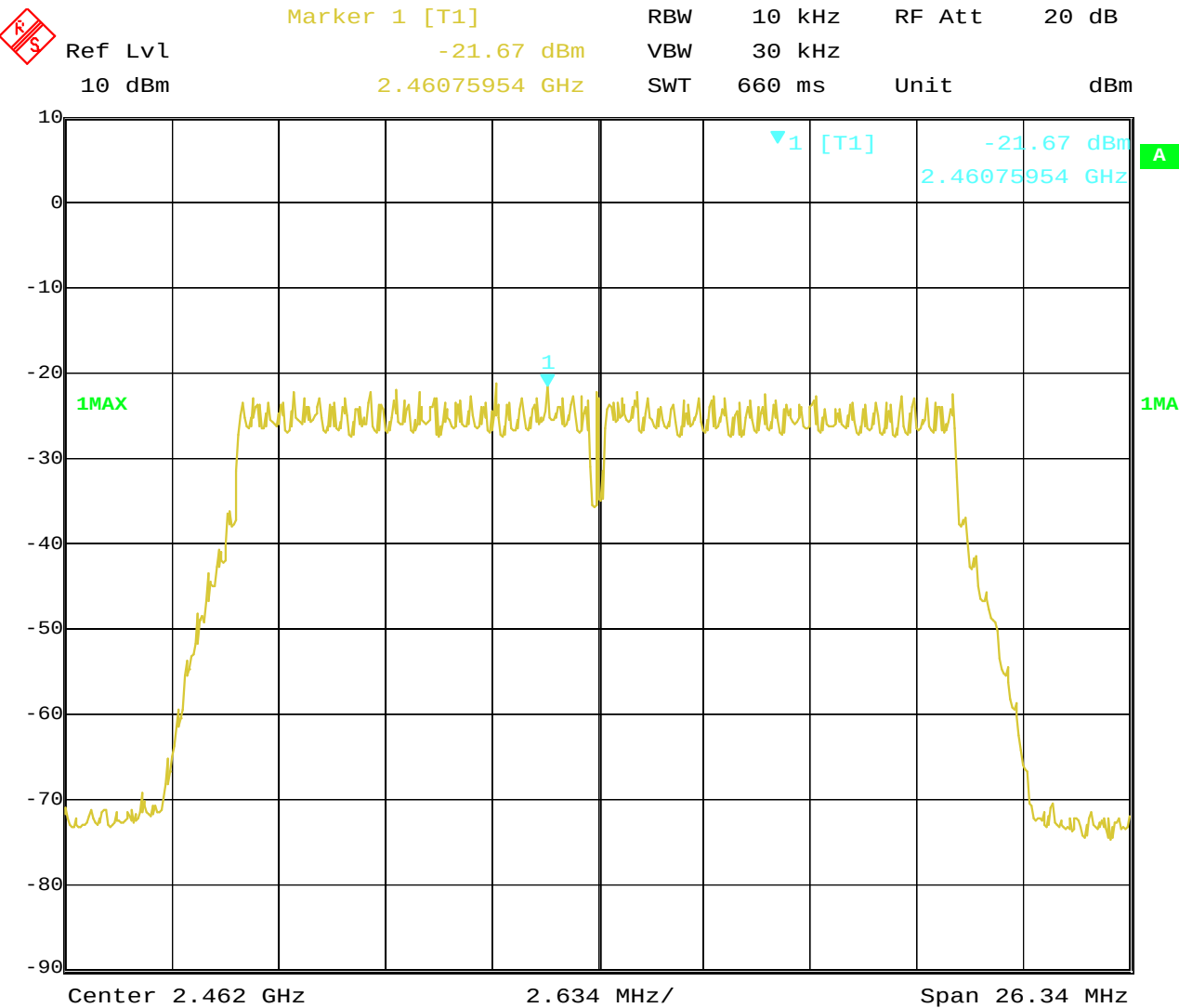
11. 802.11n at HT20 of CH06



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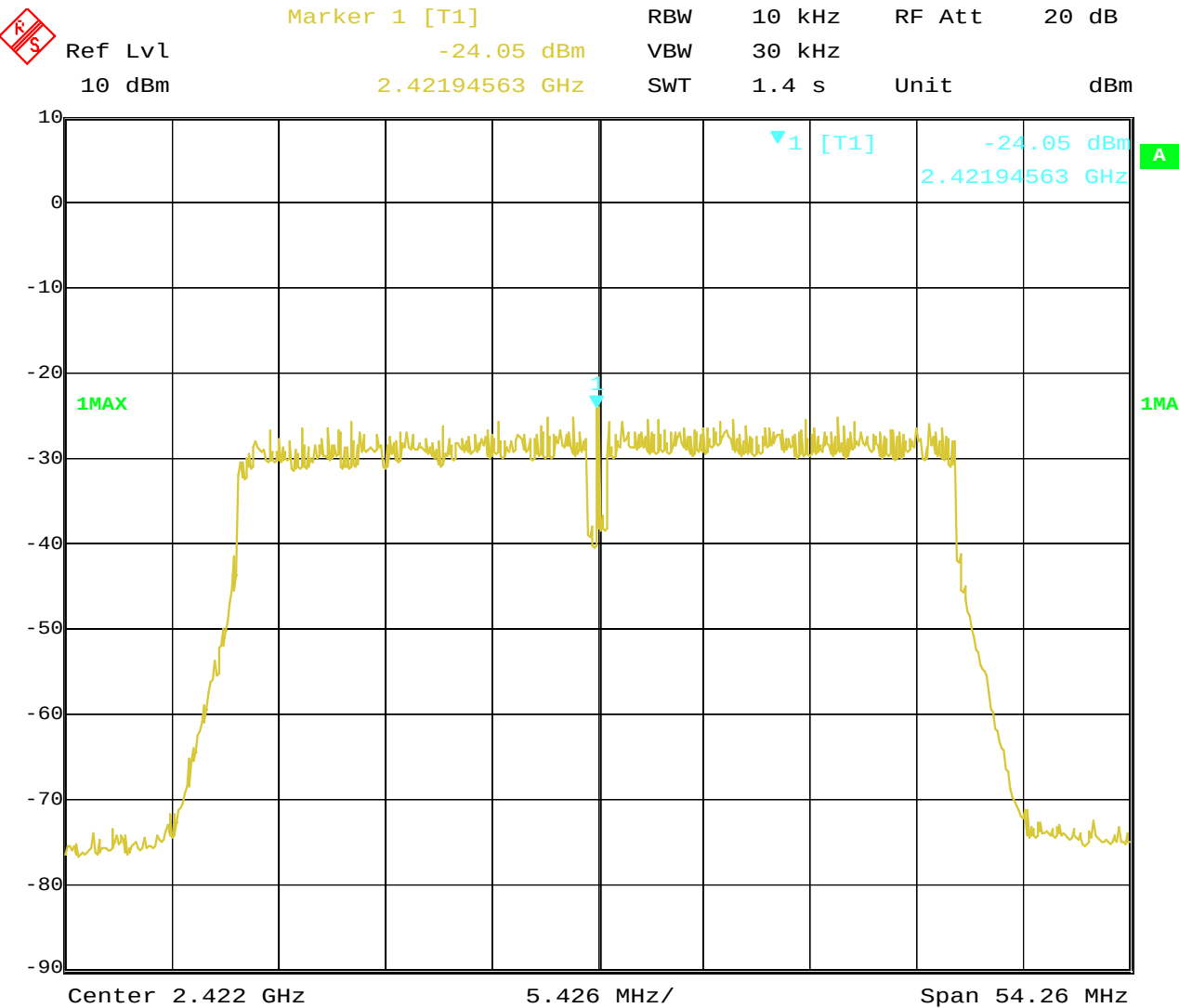
12. 802.11n at HT20 of CH11



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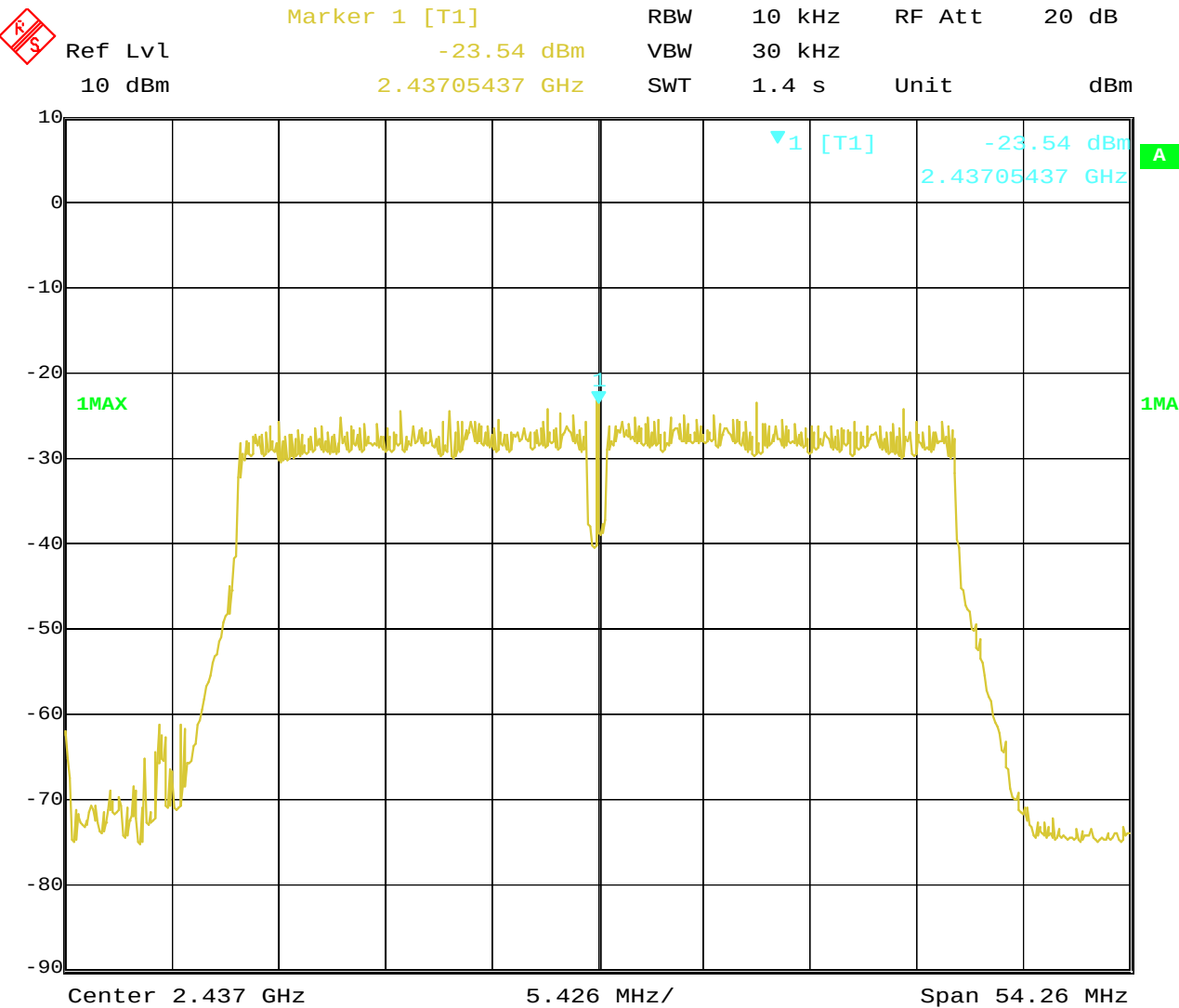
13. 802.11n at HT40 of CH01



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14. 802.11n at HT40 of CH04



Center 2.437 GHz

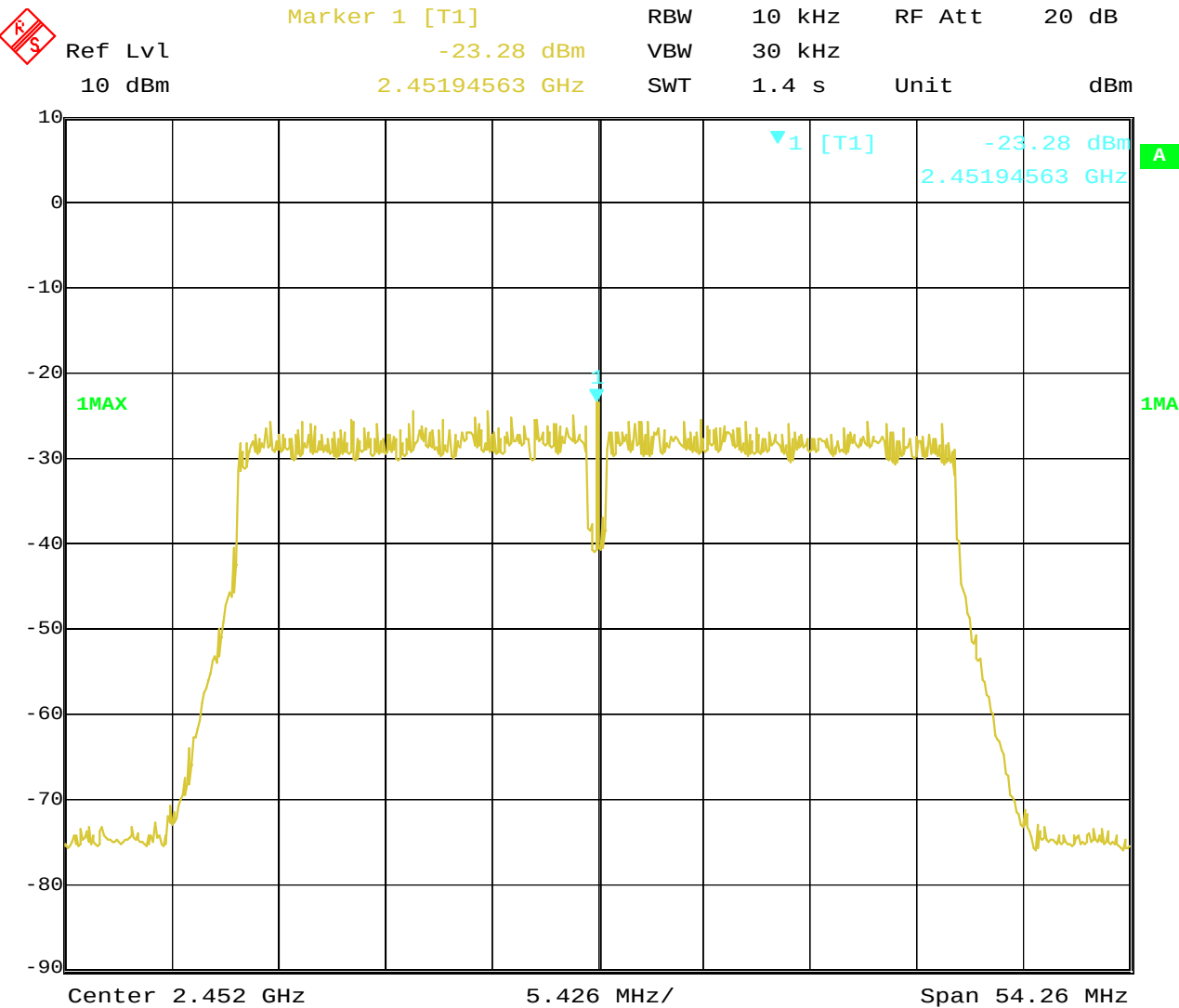
5.426 MHz/

Span 54.26 MHz

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15. 802.11n at HT40 of CH07

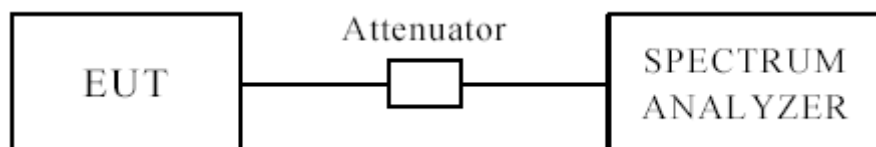


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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test.(Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=1MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. this is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), after pre-test. It was found that the worse radiated emission was get at the lying position. the worse case was recorded

2. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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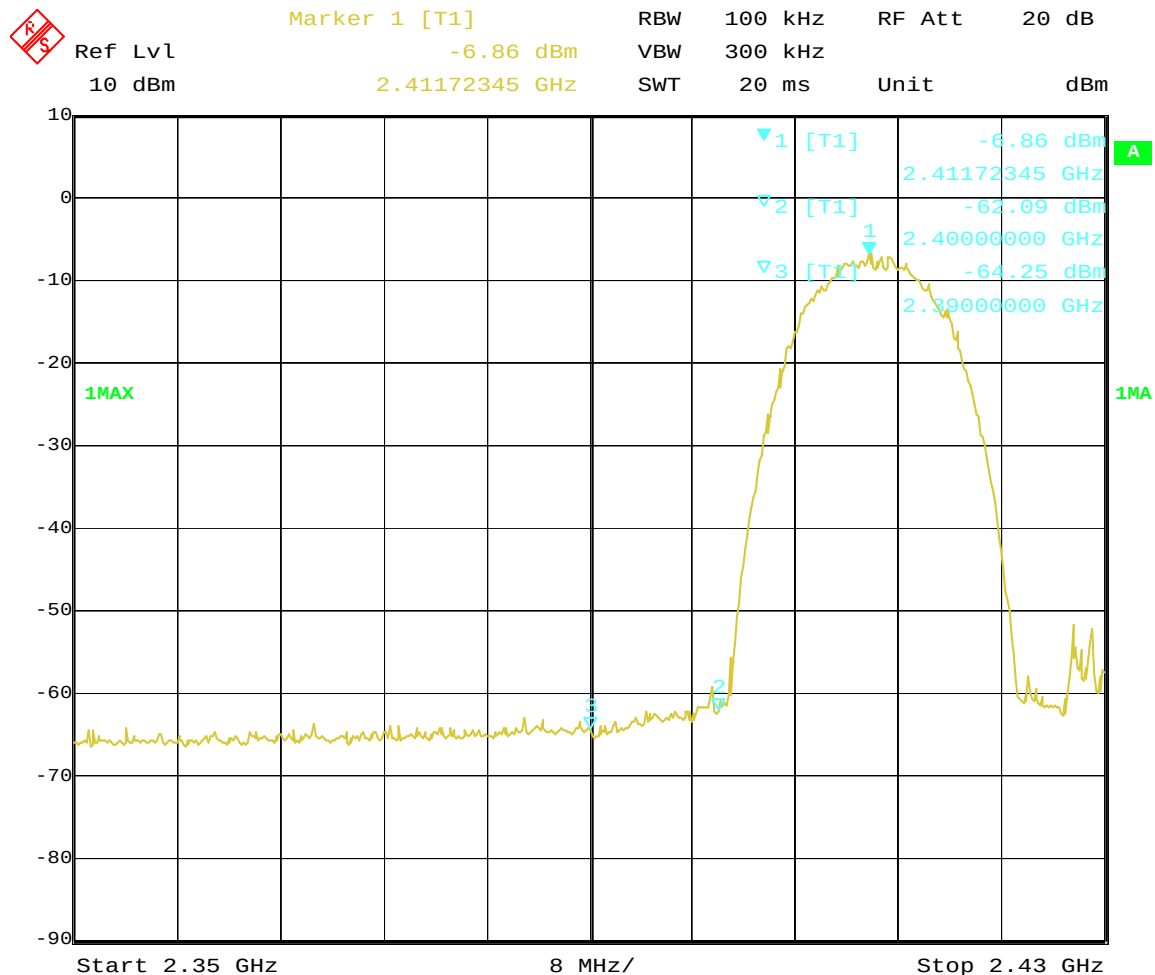
For 802.11b mode

CH01 at 11Mbps

10.4 Band-edge and Restricted band Measurement

EUT	WiFi Speaker		Model	X10
Mode	Keeping Transmitting		Input Voltage	DC13.5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	49.5	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
2390	PK (dBμV/m)	43.9	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Note: The Max. FS in Restrict Band are measured in conventional method.

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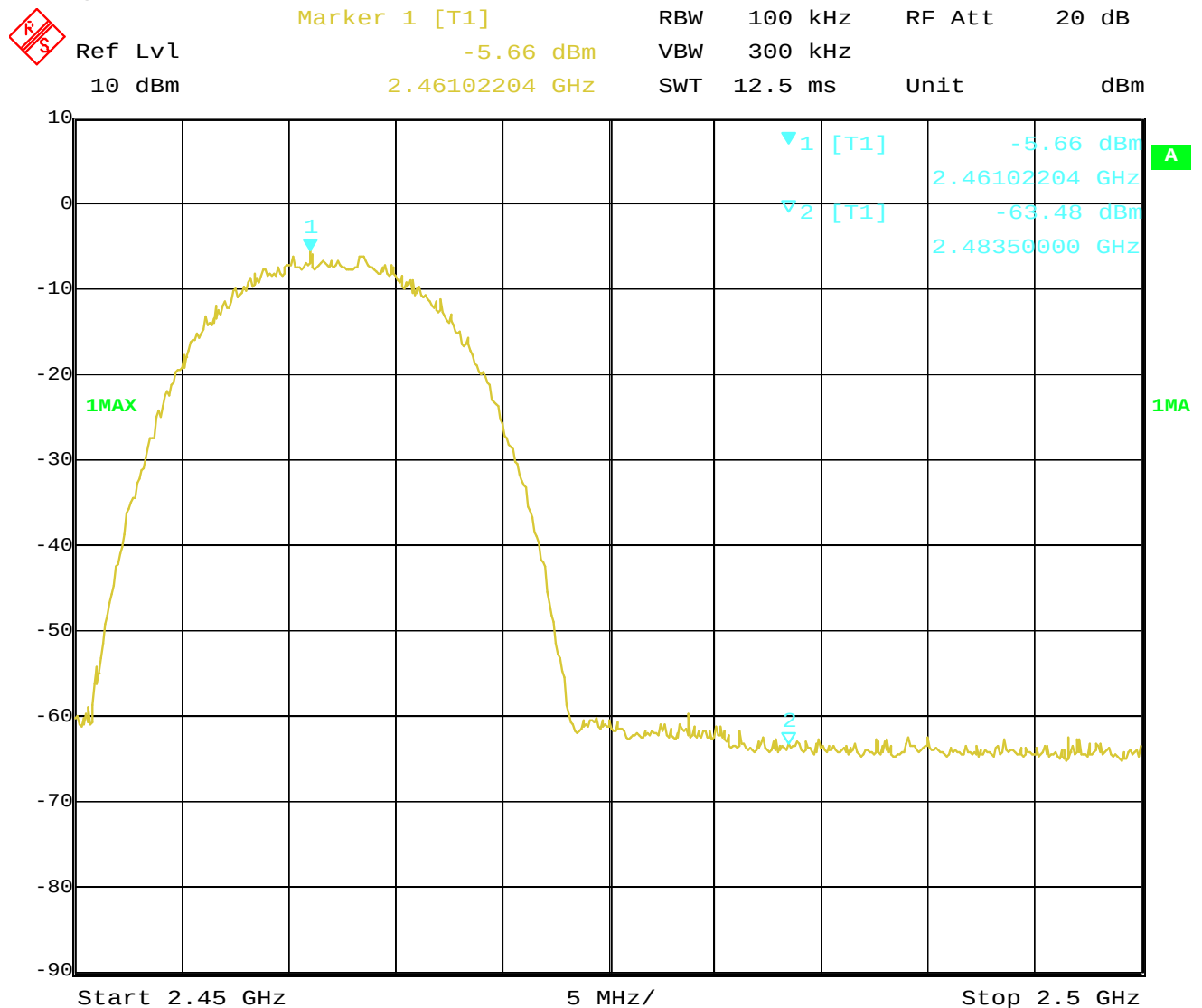


CH11 at 11Mbps

10.4 Band-edge and Restricted band Measurement

EUT	WiFi Speaker		Model	X10
Mode	Keeping Transmitting		Input Voltage	DC13.5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	42.4	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Note: The Max. FS in Restrict Band are measured in conventional method.

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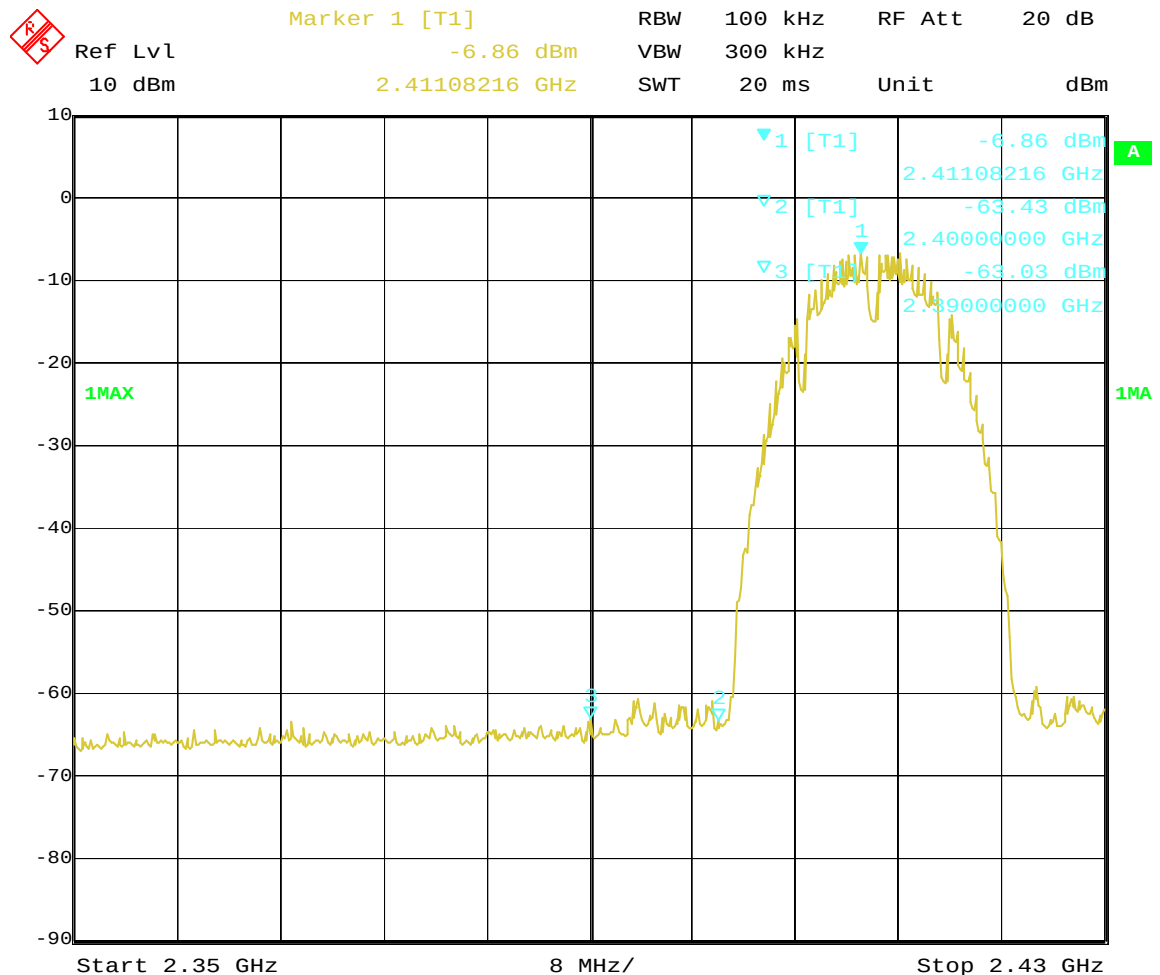
For 802.11b mode

CH01 at 1Mbps

10.4 Band-edge and Restricted band Measurement

EUT	WiFi Speaker		Model	X10
Mode	Keeping Transmitting		Input Voltage	DC13.5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	49.1	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
2390	PK (dBμV/m)	42.6	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Note: The Max. FS in Restrict Band are measured in conventional method.

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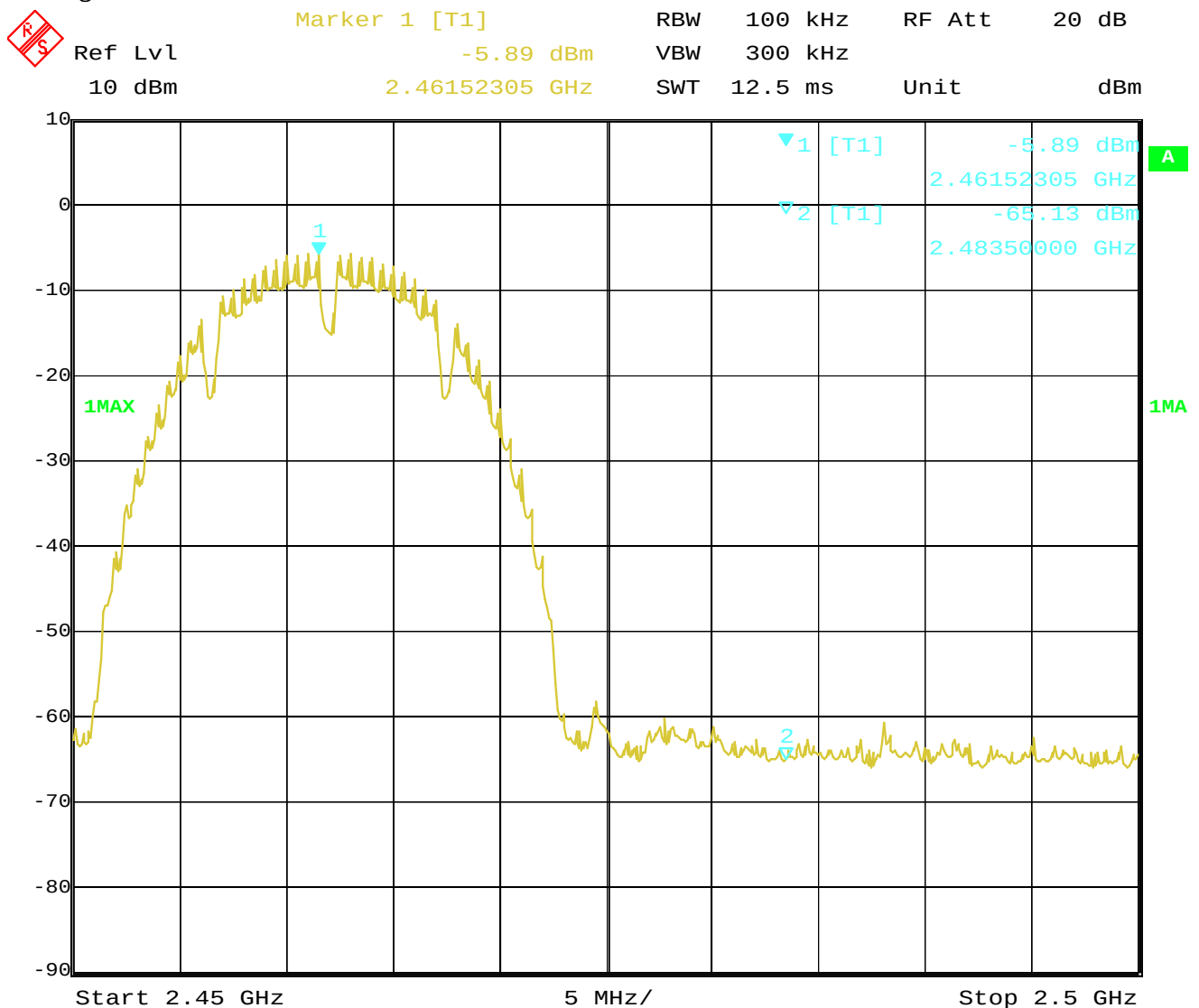


CH11 at 1Mbps

10.4 Band-edge and Restricted band Measurement

EUT	WiFi Speaker		Model	X10
Mode	Keeping Transmitting		Input Voltage	DC13.5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	43.0	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Note: The Max. FS in Restrict Band are measured in conventional method.

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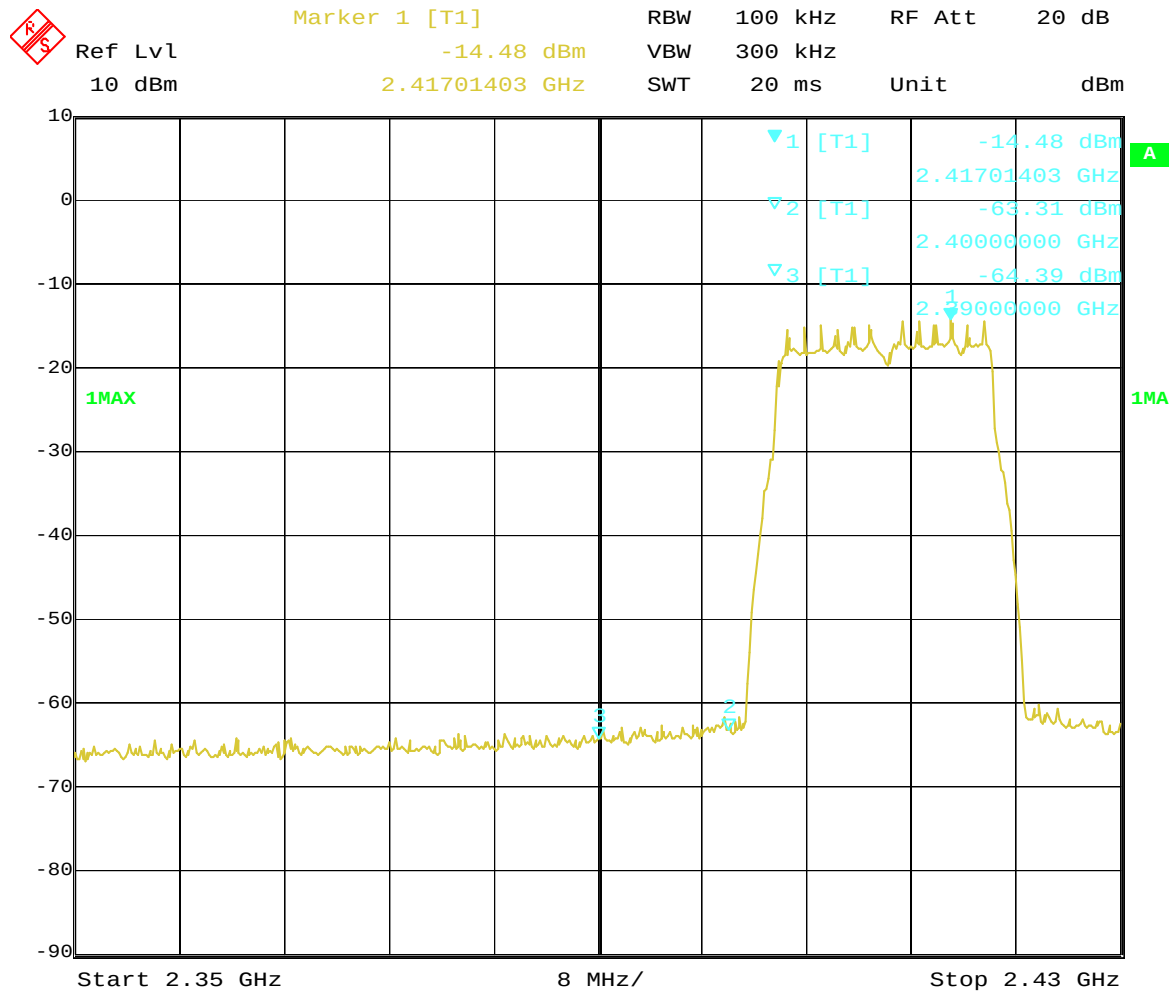
For 802.11g mode

CH01 at 54Mbps

10.4 Band-edge and Restricted band Measurement

EUT	WiFi Speaker		Model	X10
Mode	Keeping Transmitting		Input Voltage	DC13.5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	54.6	Limit	74(dBμV/m)
	AV (dBμV/m)	36.0		54(dBμV/m)
2390	PK (dBμV/m)	45.6	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Note: The Max. FS in Restrict Band are measured in conventional method.

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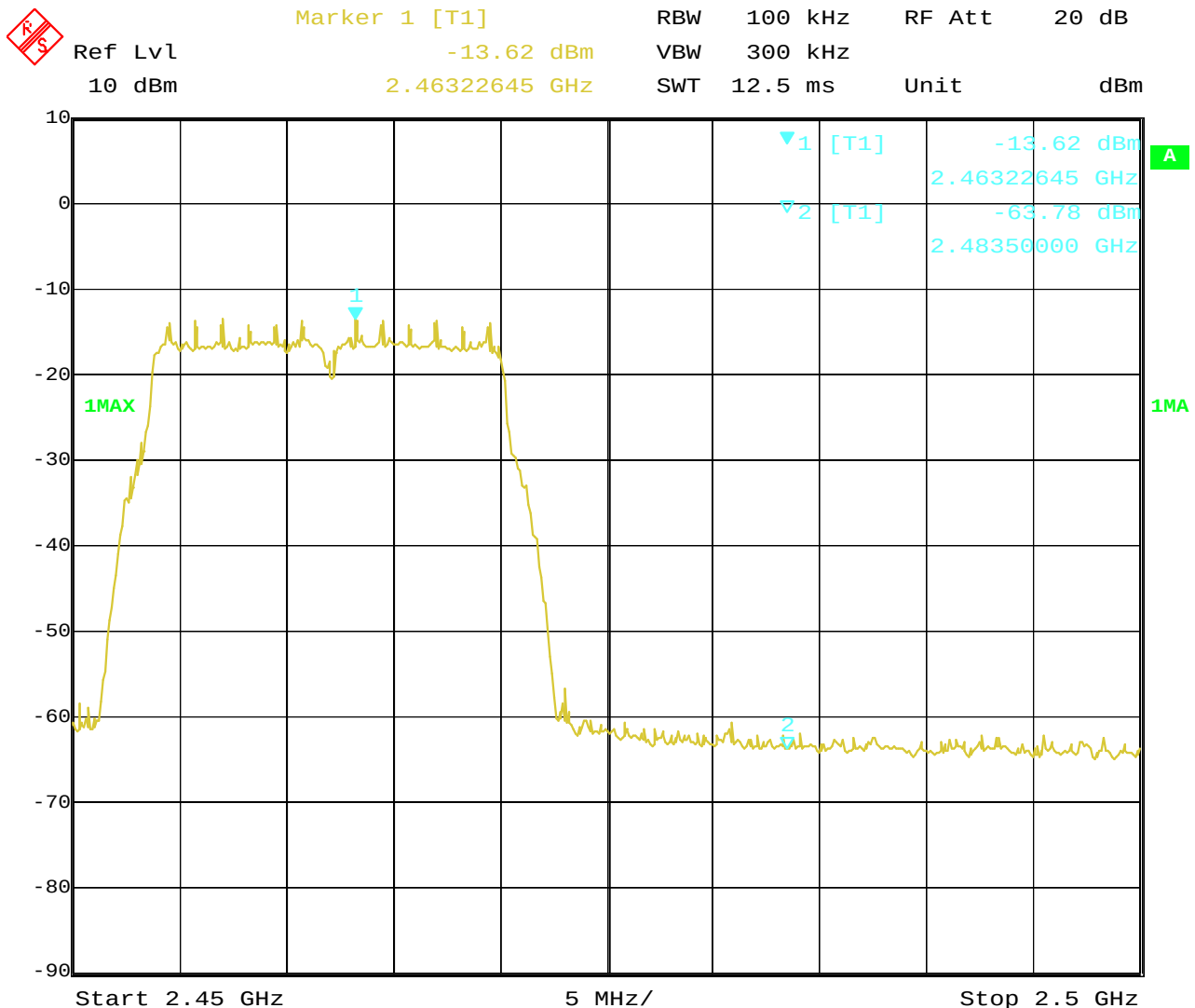


CH11 at 54Mbps

10.4 Band-edge and Restricted band Measurement

EUT	WiFi Speaker		Model	X10	
Mode	Keeping Transmitting		Input Voltage	DC13.5V	
Temperature	24 deg. C,		Humidity	56% RH	
Test Result:	Pass		Detector	PK	
2483.5	PK (dBμV/m)	49.3	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	

Test Figure:



Note: The Max. FS in Restrict Band are measured in conventional method.

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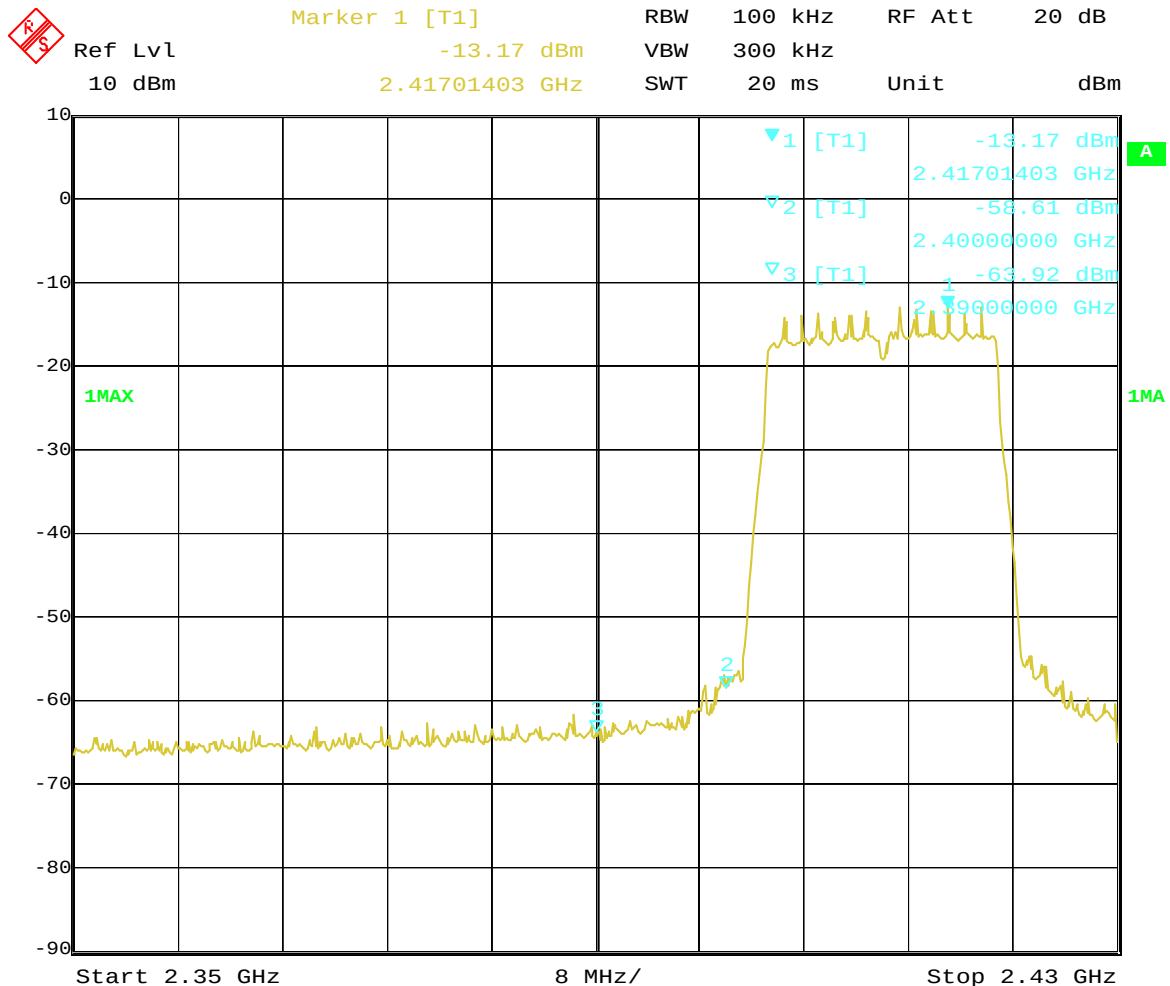
For 802.11n (HT20) mode

CH01 at 6.5Mbps

10.4 Band-edge and Restricted band Measurement

EUT	WiFi Speaker		Model	X10
Mode	Keeping Transmitting		Input Voltage	DC13.5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	55.2	Limit	74(dBμV/m)
	AV (dBμV/m)	36.8		54(dBμV/m)
2390	PK (dBμV/m)	45.1	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Note: The Max. FS in Restrict Band are measured in conventional method.

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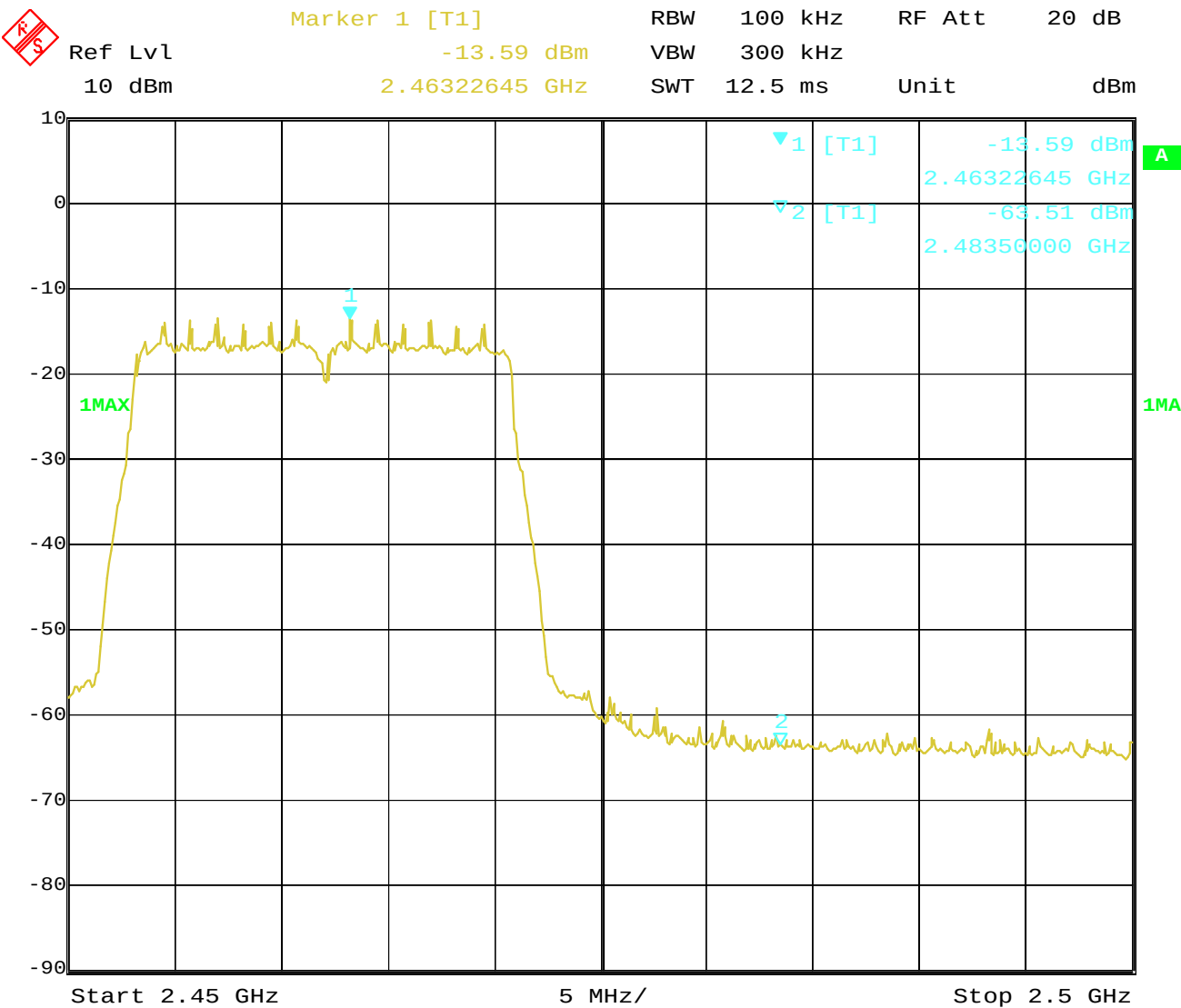


CH11 at 6.5Mbps

10.4 Band-edge and Restricted band Measurement

EUT	WiFi Speaker		Model	X10
Mode	Keeping Transmitting		Input Voltage	DC13.5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	51.9	Limit	74(dBμV/m)
	AV (dBμV/m)	32.7		54(dBμV/m)

Test Figure:



Note: The Max. FS in Restrict Band are measured in conventional method.

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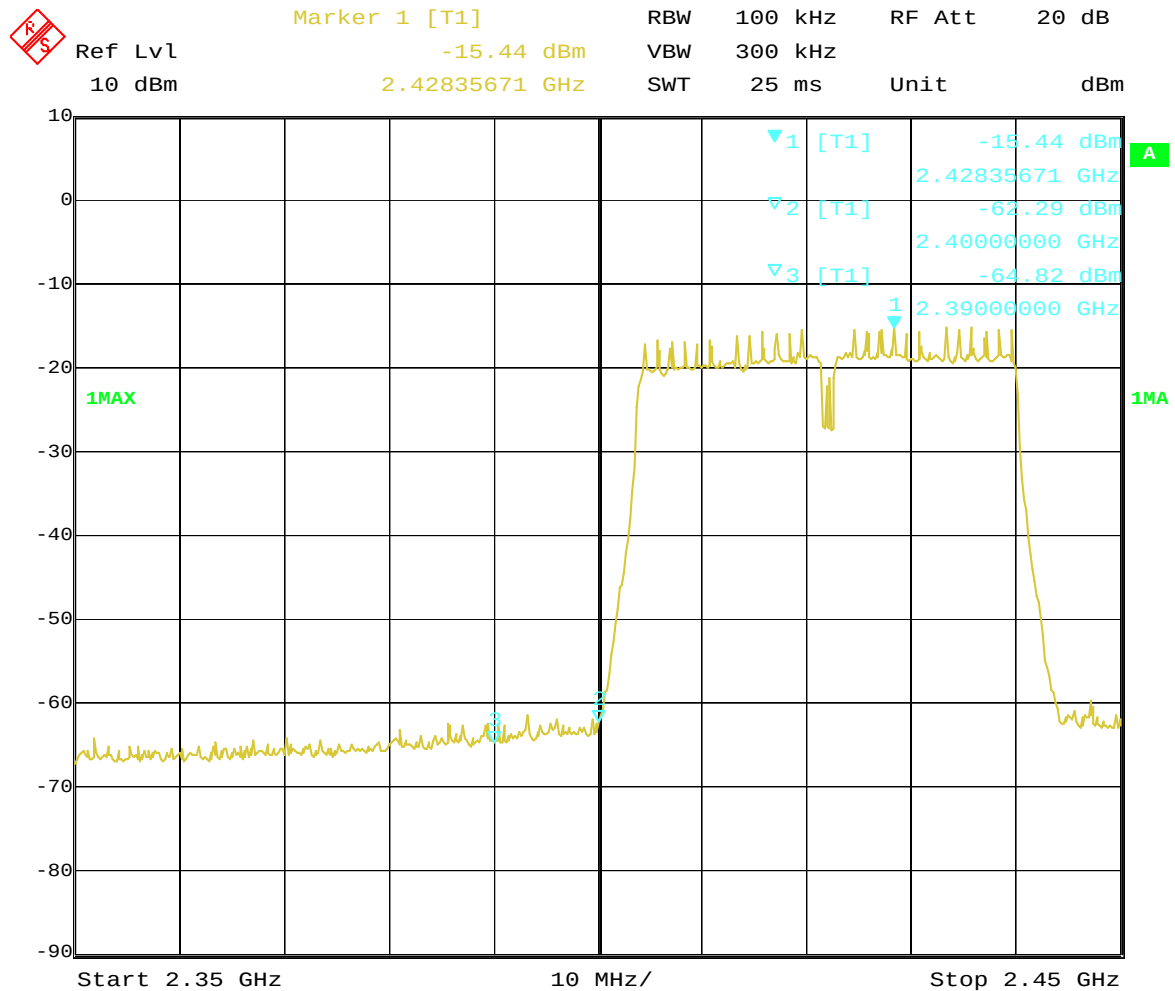
For 802.11n (HT40) mode

CH01 at 6.5Mbps

10.4 Band-edge and Restricted band Measurement

EUT	WiFi Speaker		Model	X10
Mode	Keeping Transmitting		Input Voltage	DC13.5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	55.5	Limit	74(dBμV/m)
	AV (dBμV/m)	37.7		54(dBμV/m)
2390	PK (dBμV/m)	46.8	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



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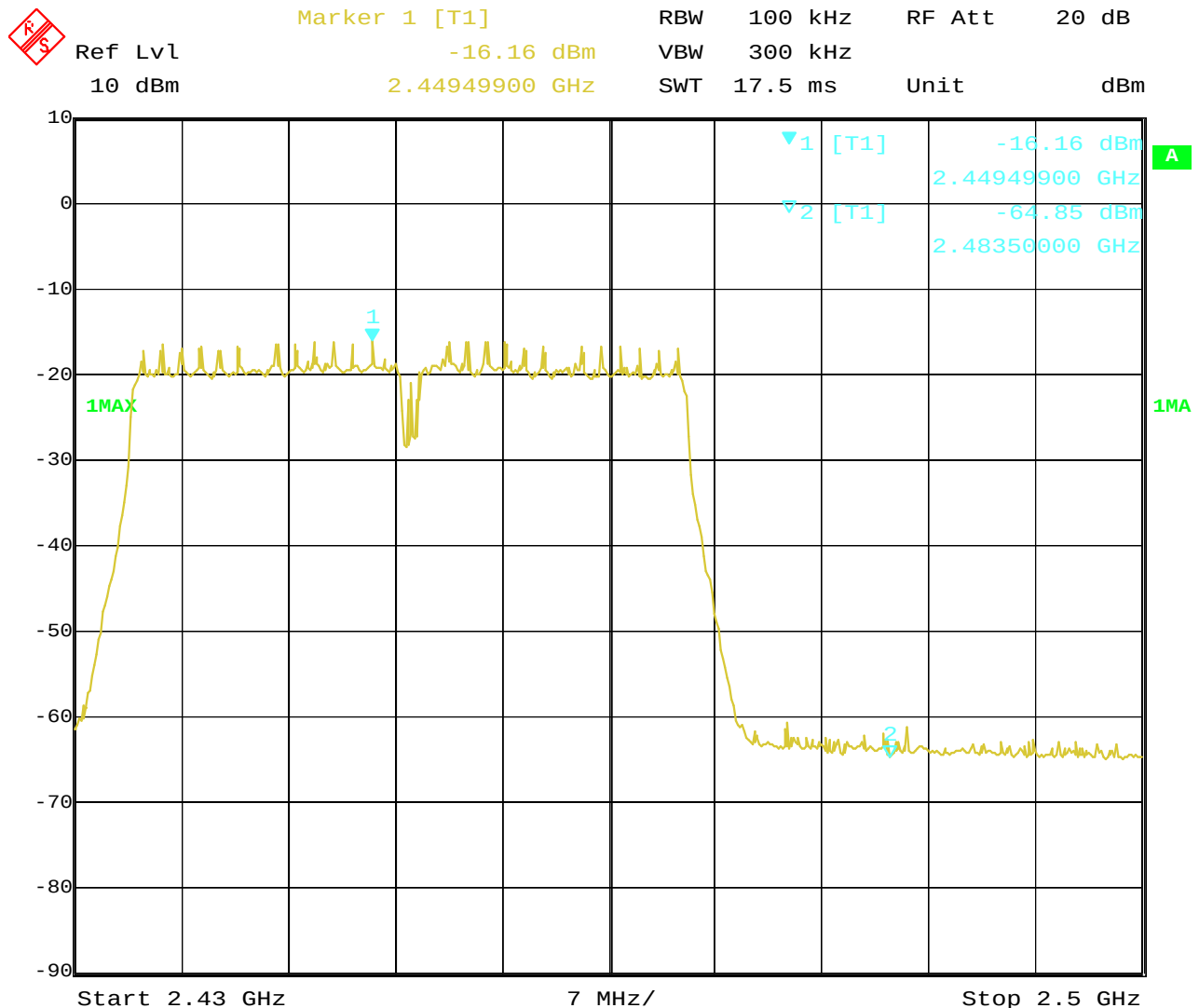


CH7 at 6.5Mbps

10.4 Band-edge and Restricted band Measurement

EUT	WiFi Speaker		Model	X10
Mode	Keeping Transmitting		Input Voltage	DC13.5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	53.9	Limit	74(dBμV/m)
	AV (dBμV/m)	35.1		54(dBμV/m)

Test Figure:



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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Integral antenna used. The maximum Gain of the antennas is 3.58dBi.

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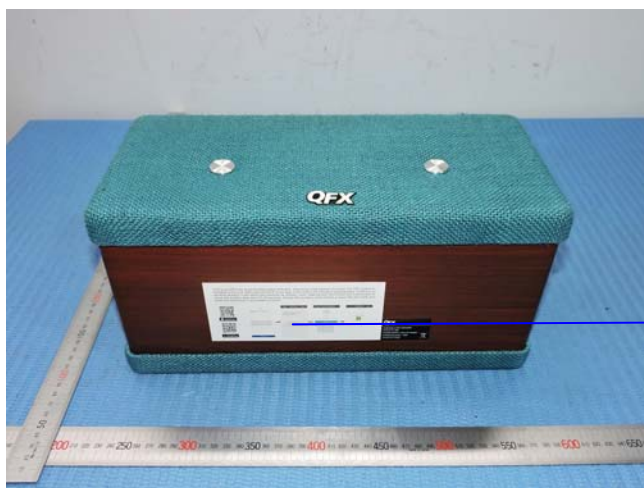
12.0 FCC ID Label

FCC ID: 2AHXMX-10

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



FCC Label Location

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13.0 Photo of testing

Conducted Emission Test Setup:



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Radiated Emission Test Setup:



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Photographs – EUT

Outside view



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Outside view



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Outside view



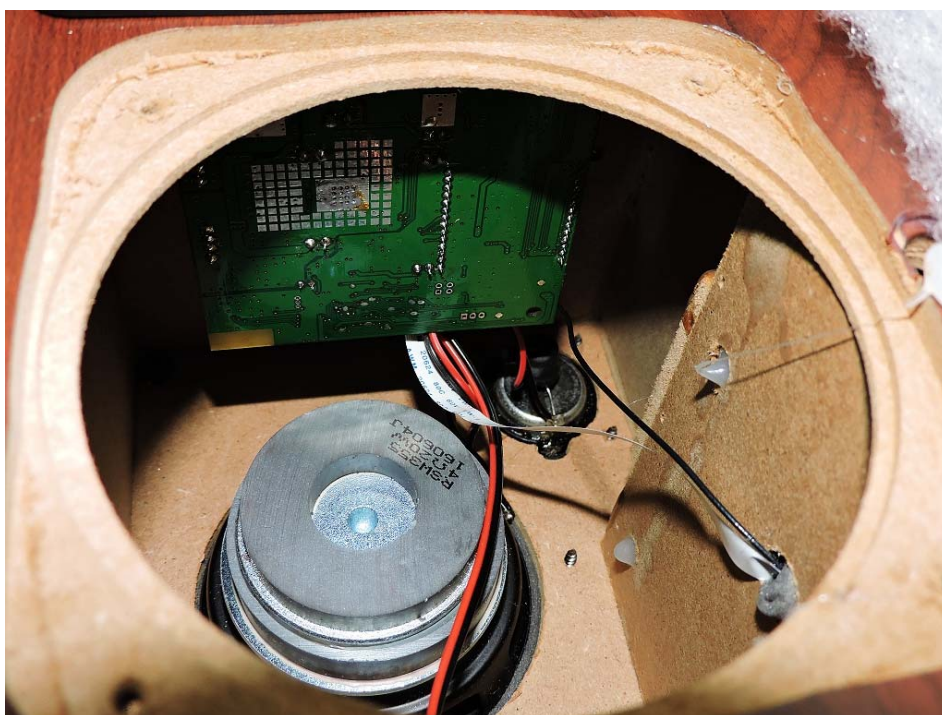
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Inside view



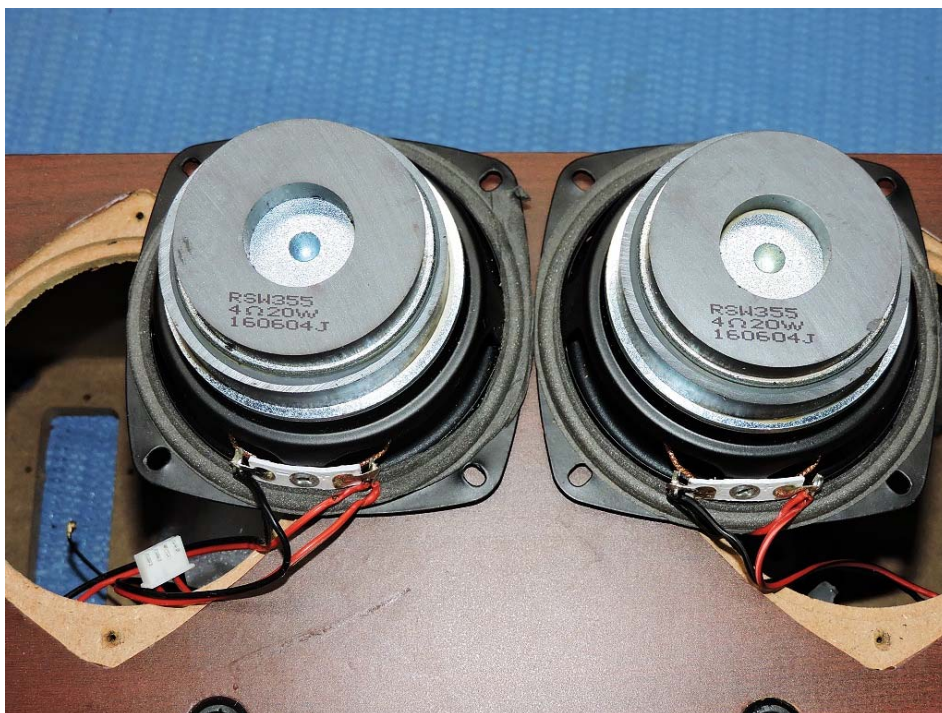
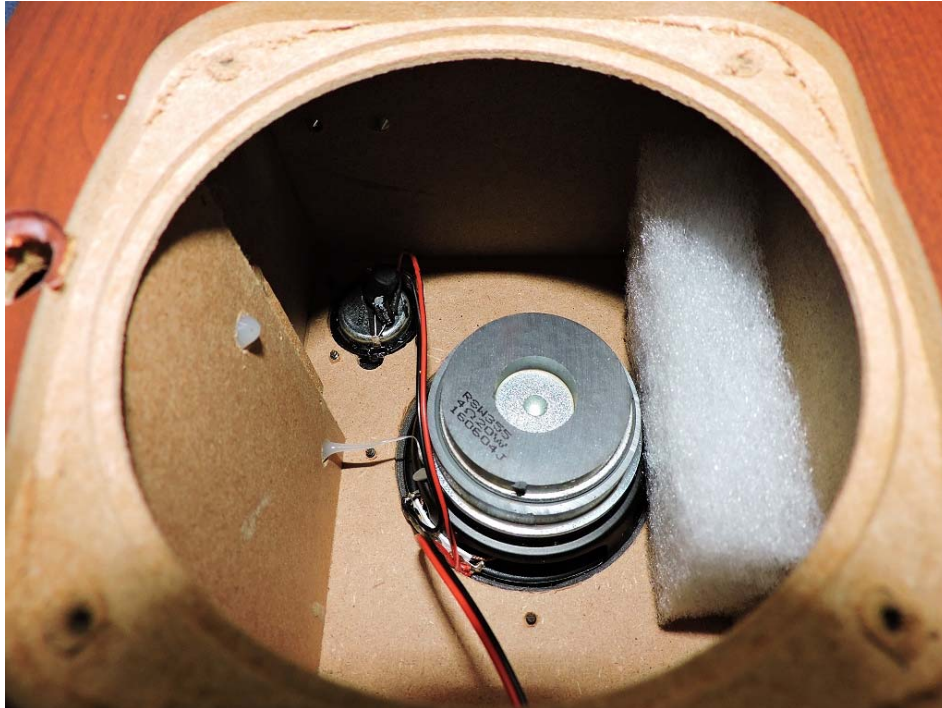
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Inside view



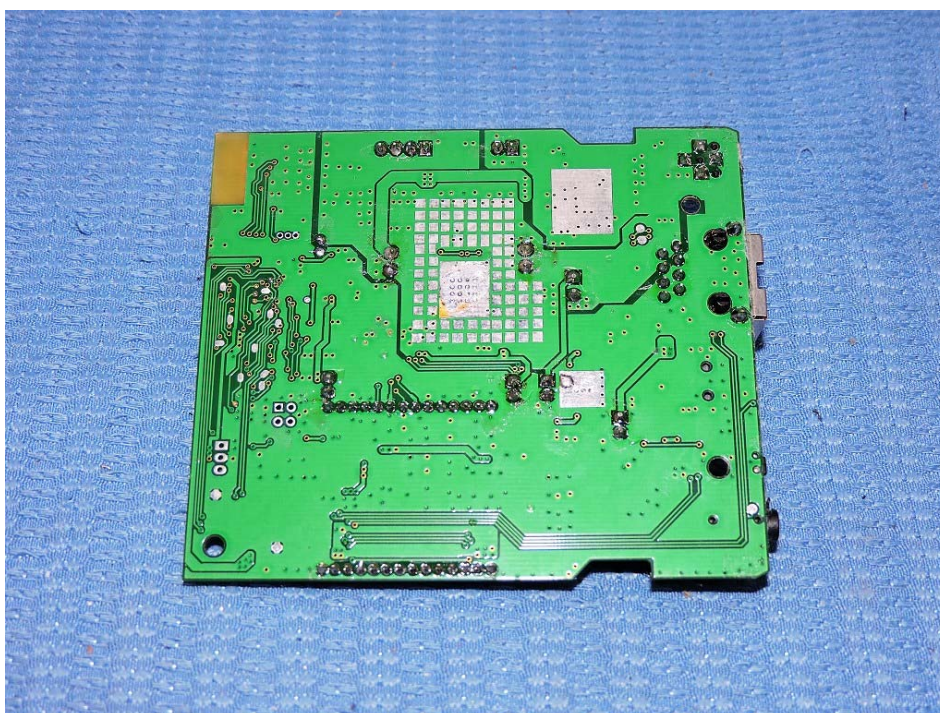
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Inside view



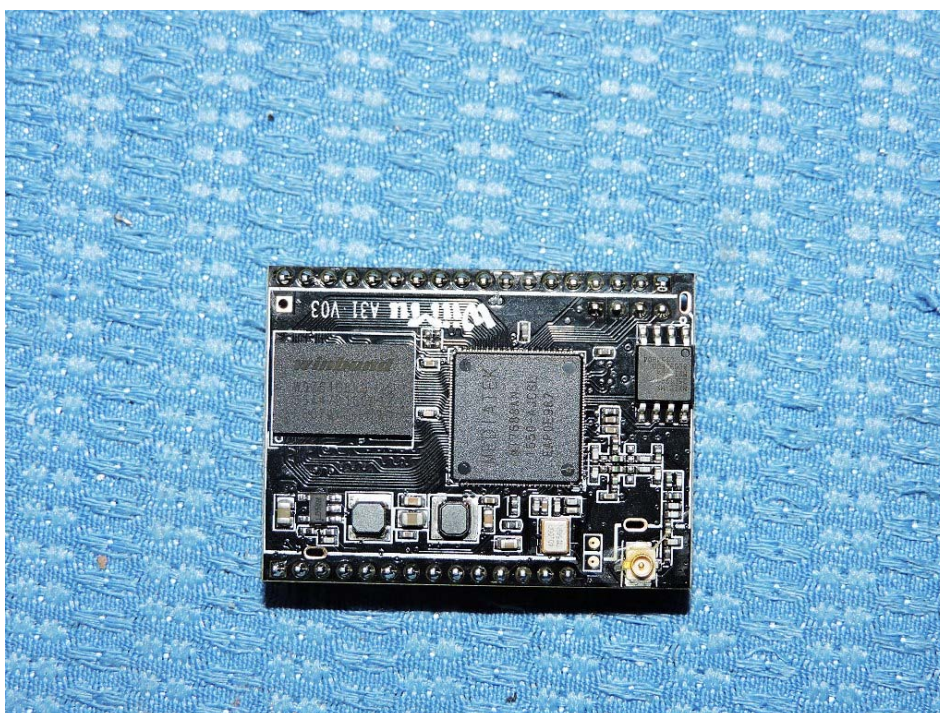
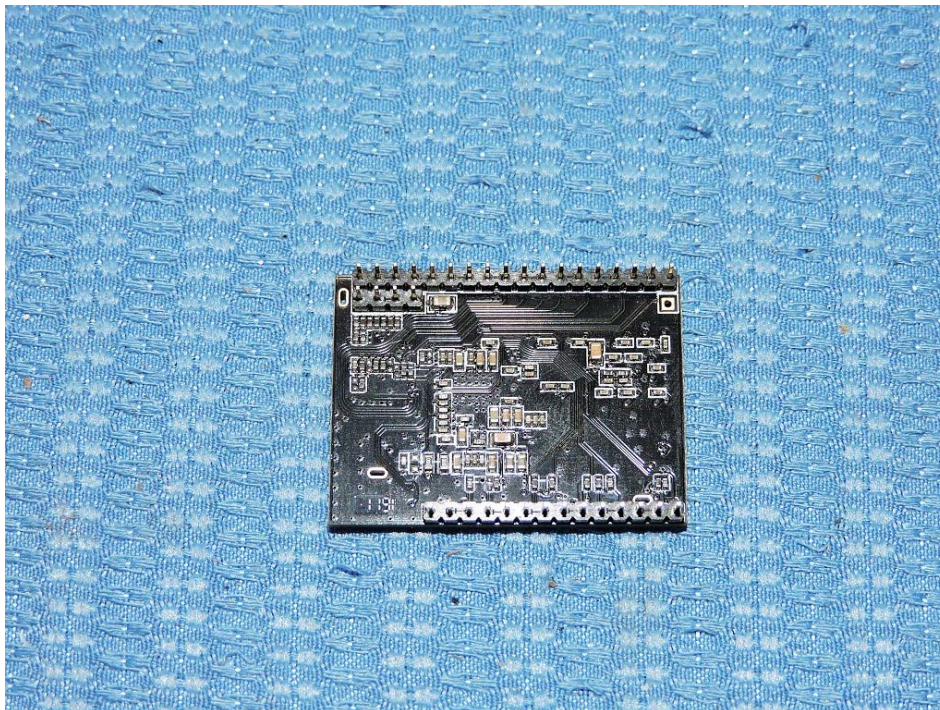
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Inside view



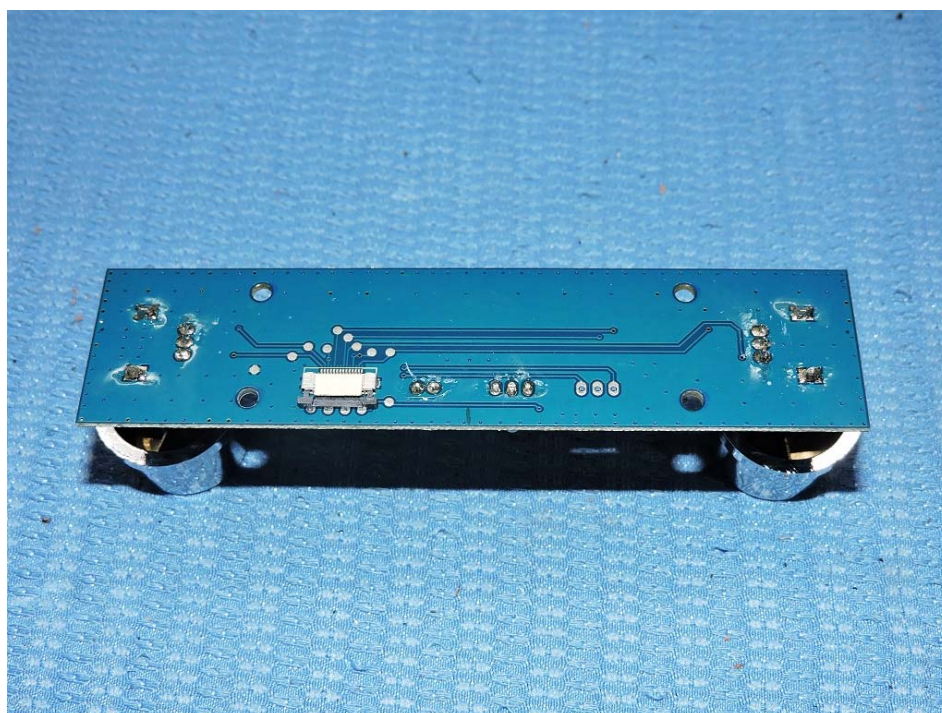
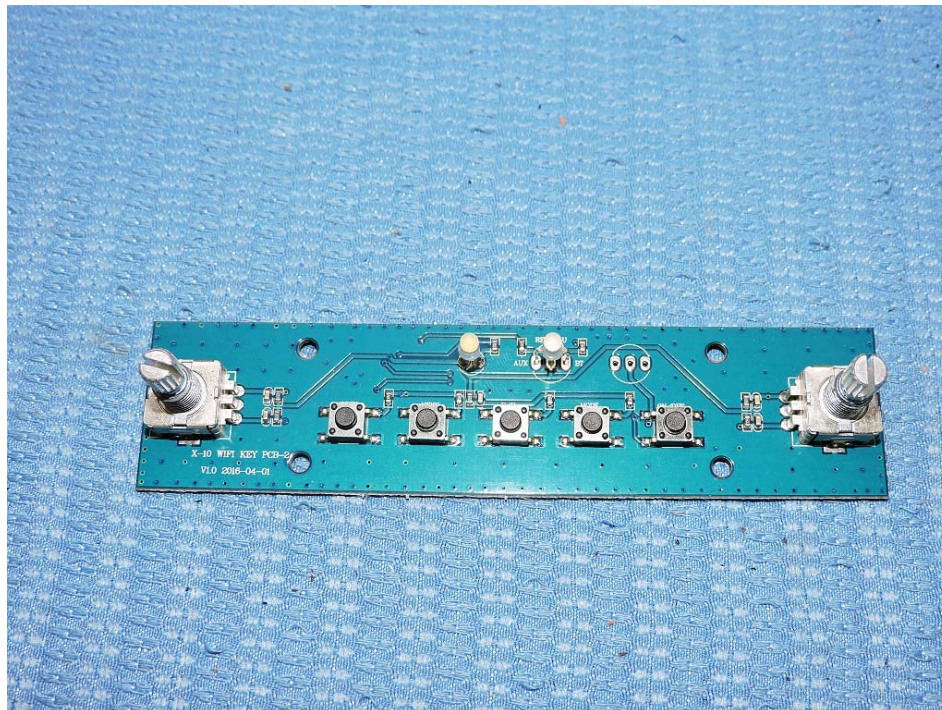
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Inside view



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