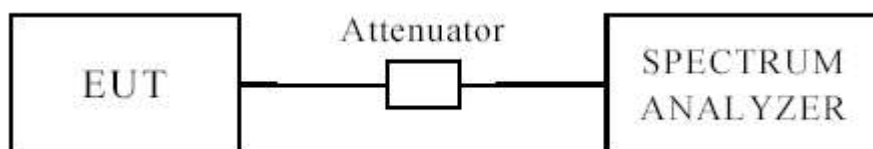




7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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6dB Occupied Bandwidth

EUT	Mini Smart TV		Model	TJ800	
Mode	802.11b		Input Voltage	120V~	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	1	10.04	0.5	Pass
6	2437	1	10.04	0.5	Pass
11	2462	1	10.04	0.5	Pass
1	2412	11	7.94	0.5	Pass
6	2437	11	7.94	0.5	Pass
11	2462	11	7.94	0.5	Pass

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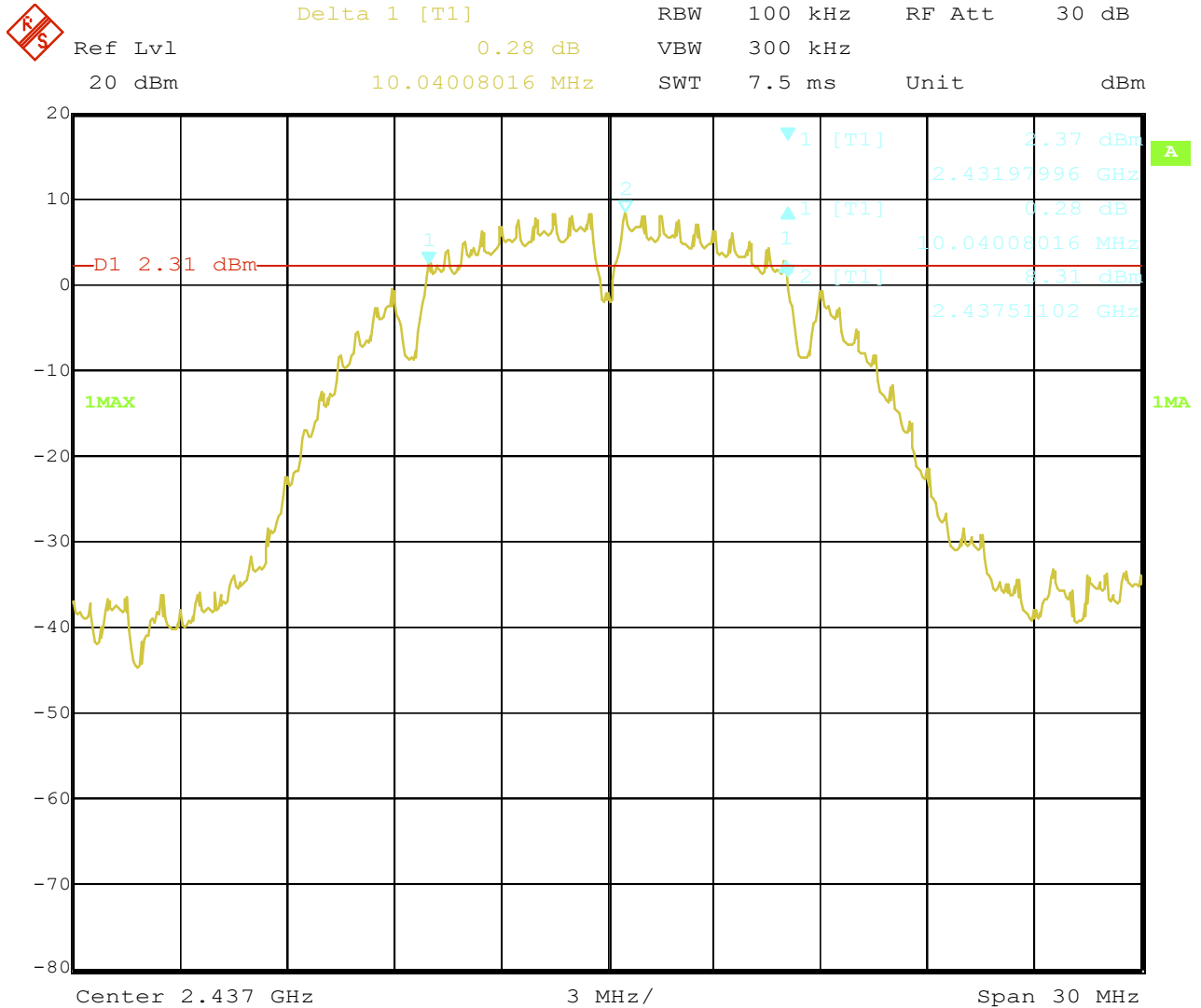
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2. 802.11b at 1Mbps of CH06



Date: 17.OCT.2020 13:46:15

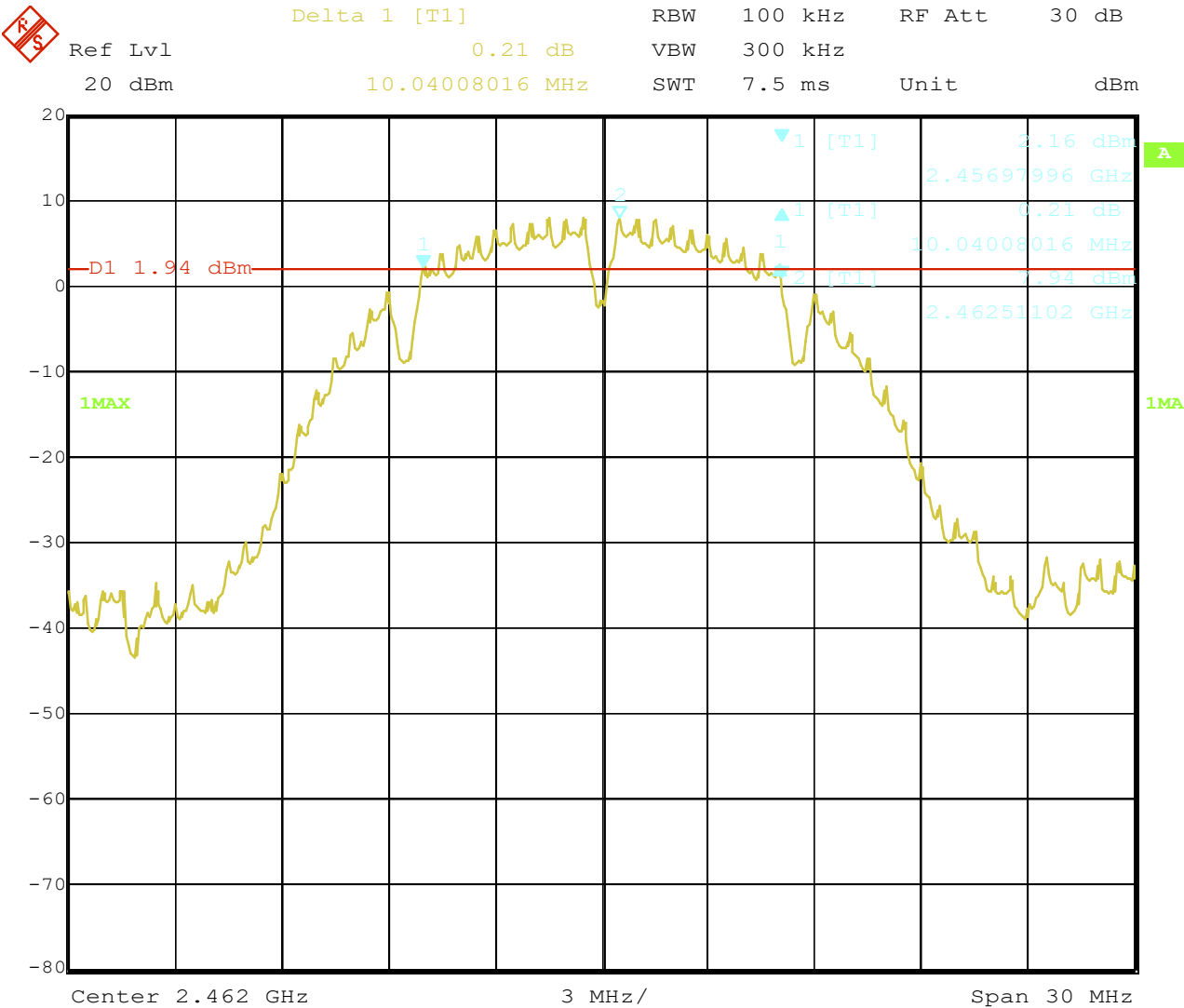
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3. 802.11b at 1Mbps of CH11

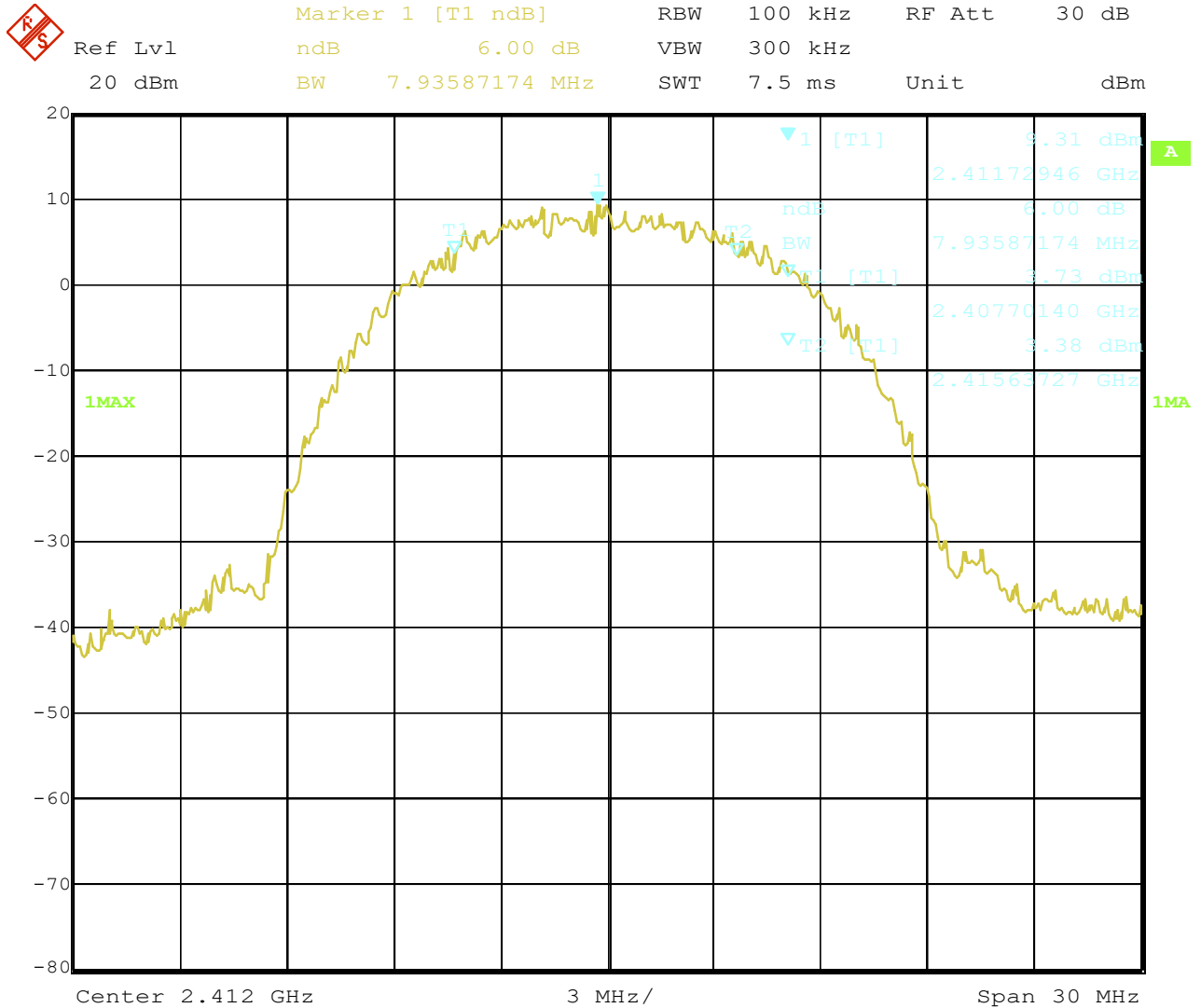


Date: 17.OCT.2020 13:49:05

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4. 802.11b at 11Mbps of CH01



Date: 17.OCT.2020 13:54:20

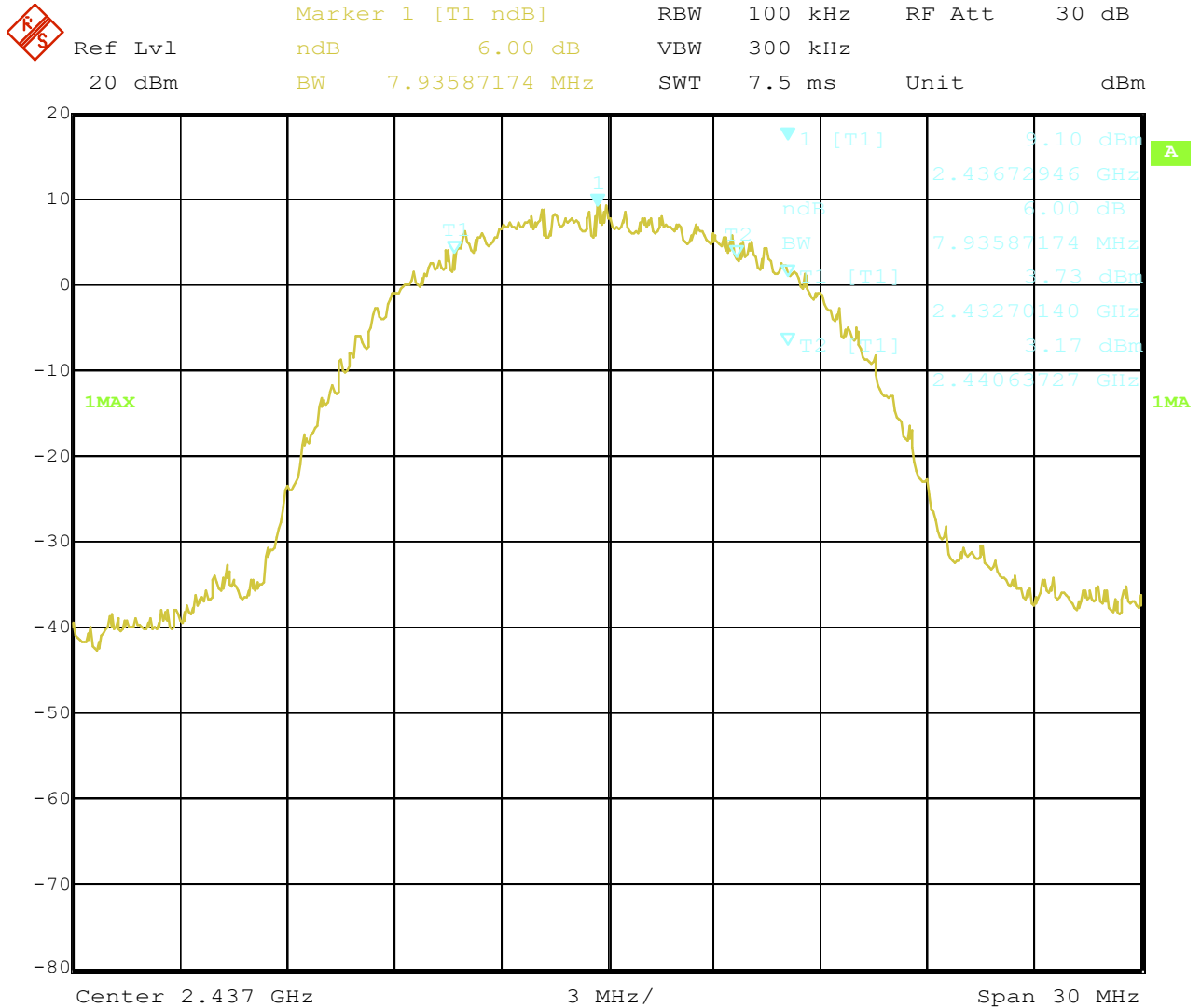
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5. 802.11b at 11Mbps of CH06

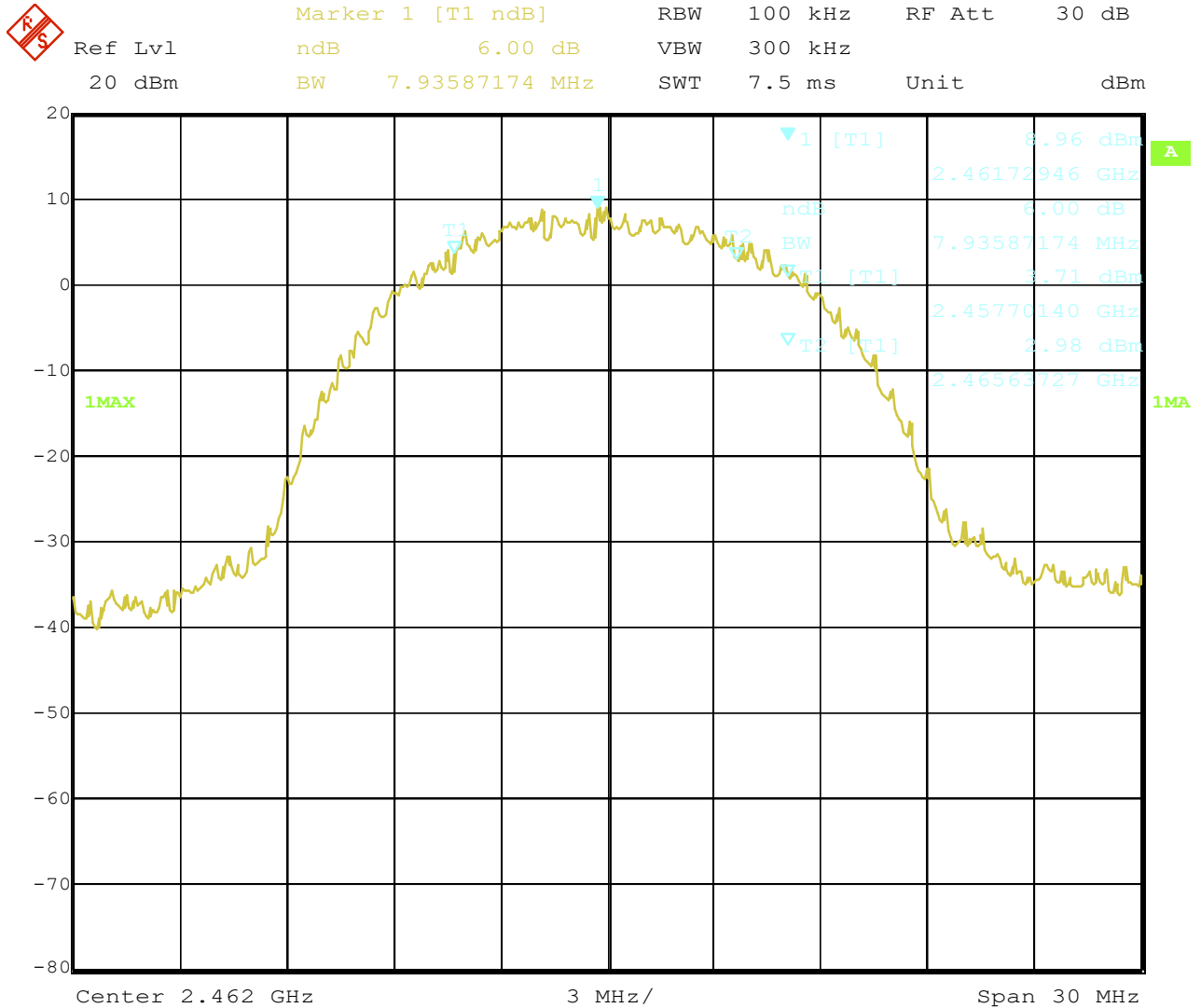


Date: 17.OCT.2020 13:51:43

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6. 802.11b at 11Mbps of CH11



Date: 17.OCT.2020 13:50:40

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6dB Occupied Bandwidth

EUT		Mini Smart TV		Model	TJ800
Mode		802.11g		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	6	16.41	0.5	Pass
6	2437	6	16.41	0.5	Pass
11	2462	6	16.41	0.5	Pass

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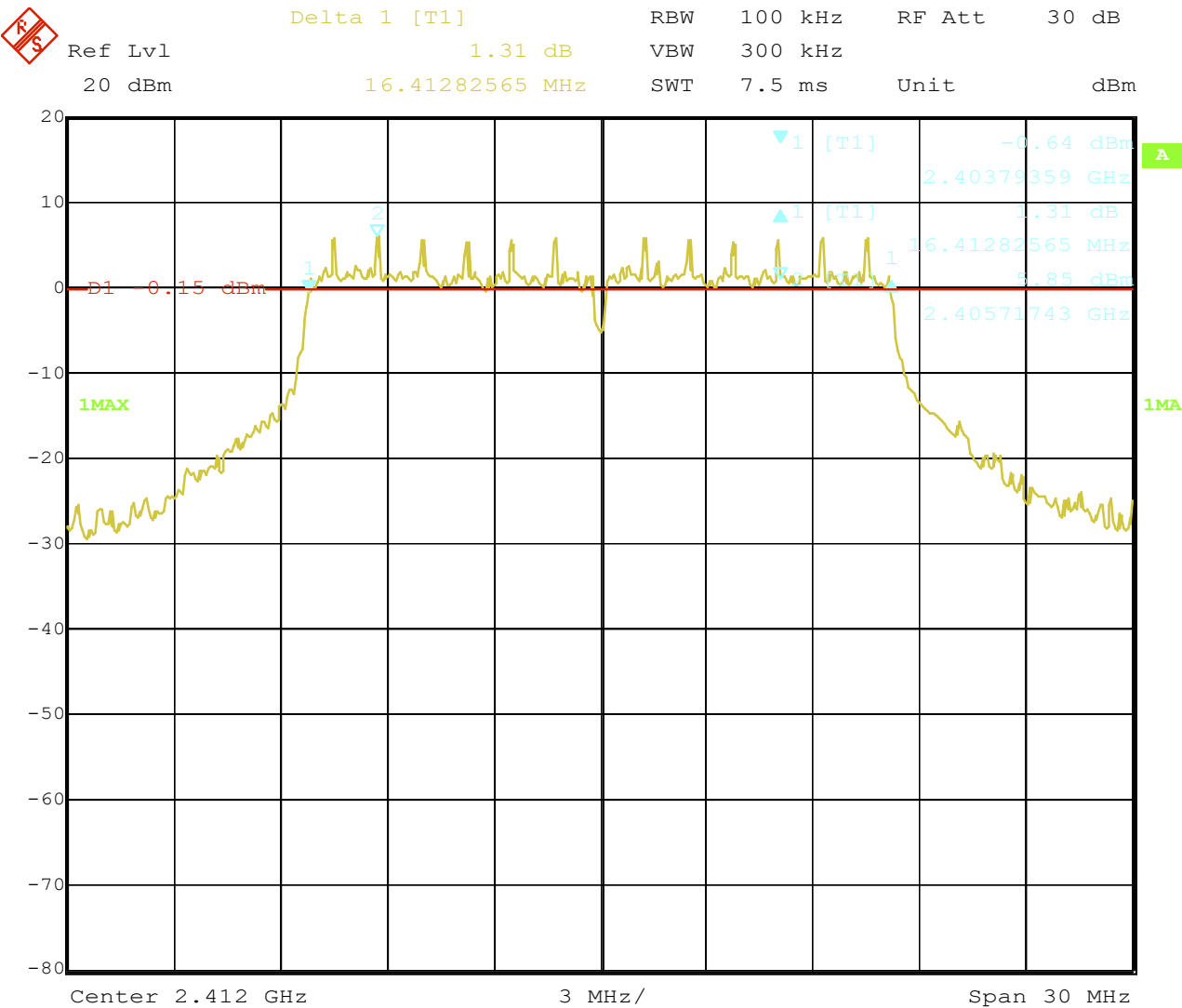
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Test Plots:

1. 802.11g at 6Mbps of CH01

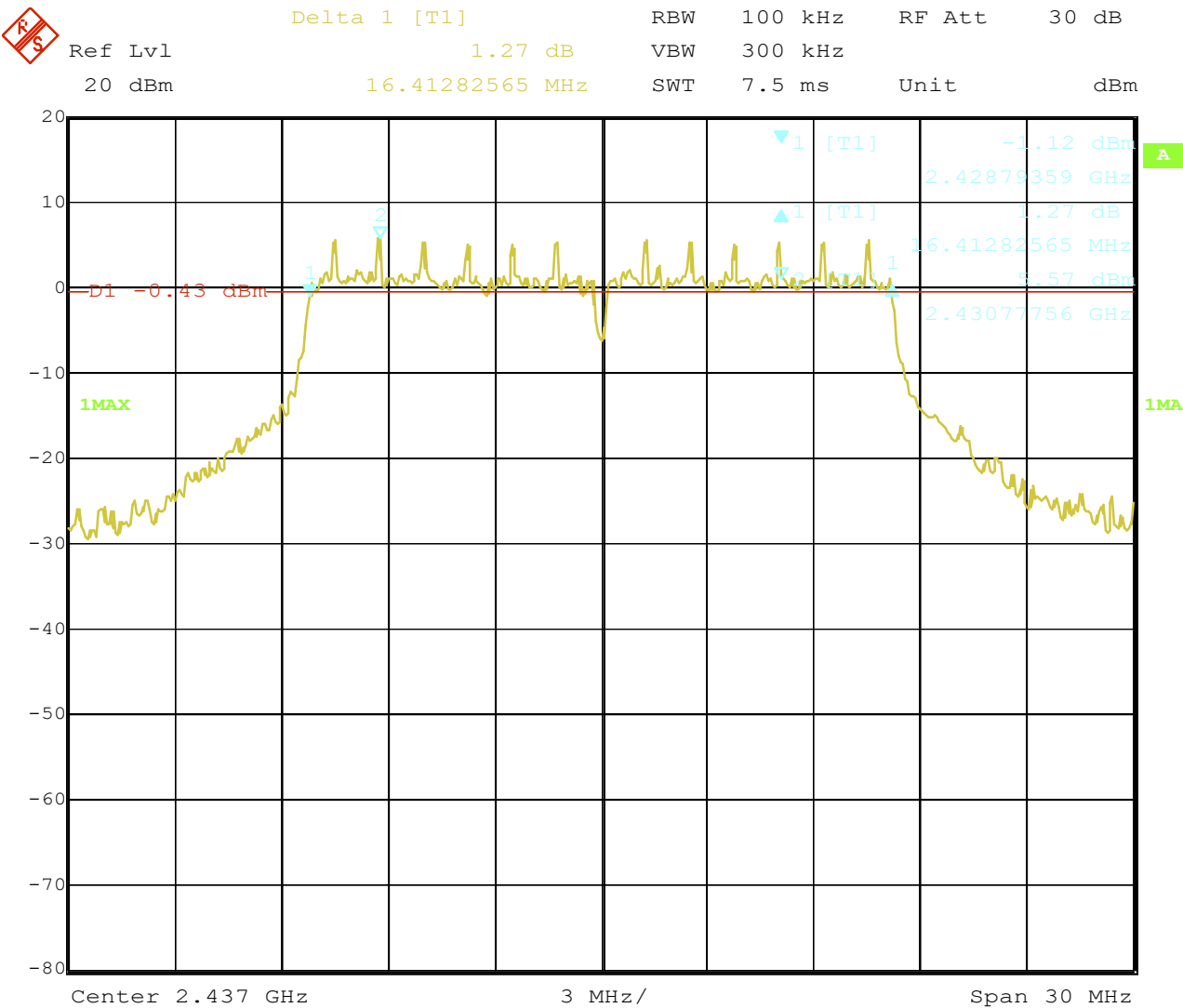


Date: 17.OCT.2020 13:56:23

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2. 802.11g at 6Mbps of CH06

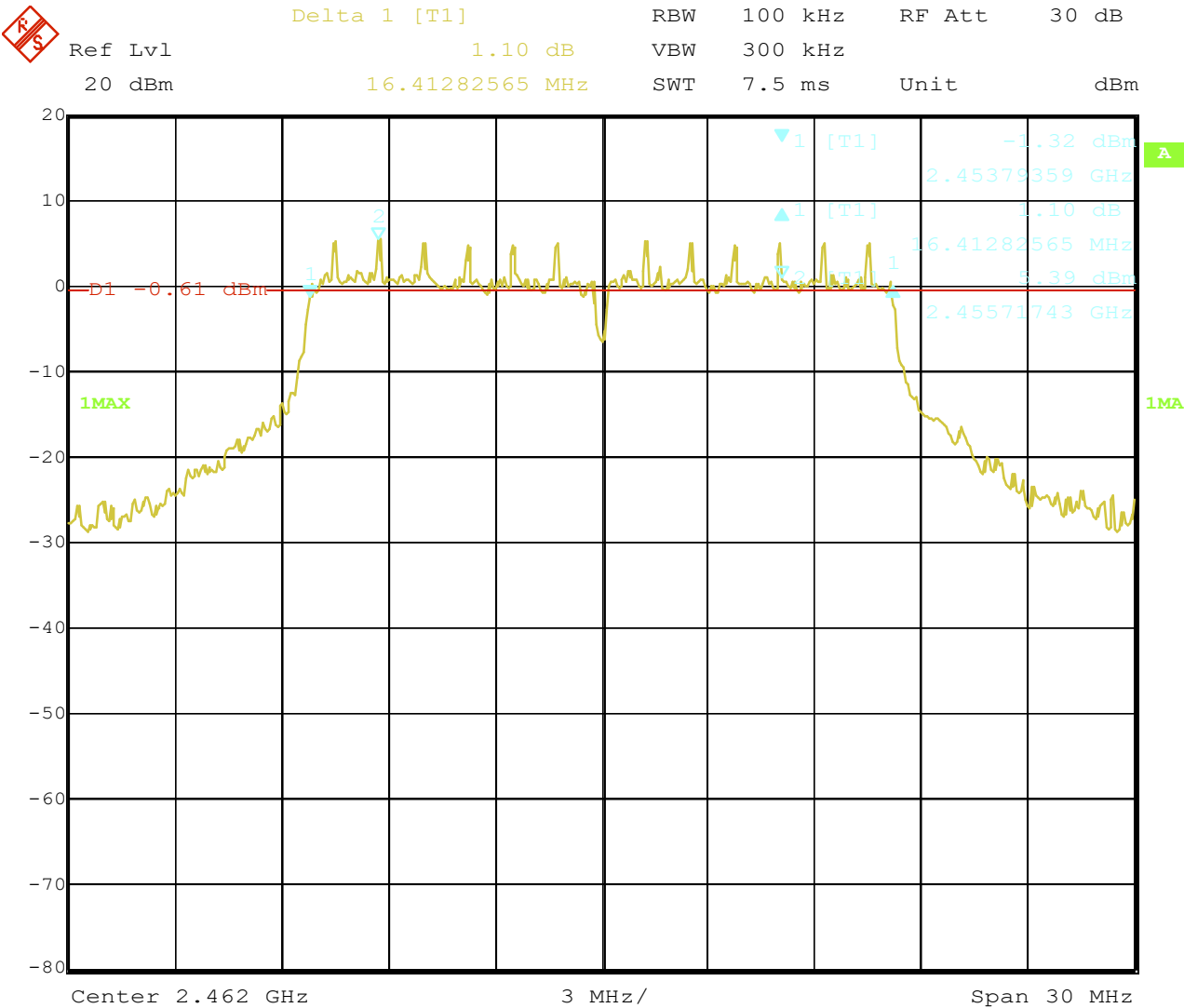


Date: 17.OCT.2020 13:57:26

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3. 802.11g at 6Mbps of CH11



Date: 17.OCT.2020 13:59:54

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6dB Occupied Bandwidth

EUT	Mini Smart TV		Model	TJ800	
Mode	802.11n HT20		Input Voltage	120V~	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	mcs0	17.62	0.5	Pass
6	2437	mcs0	17.62	0.5	Pass
11	2462	mcs0	17.62	0.5	Pass

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1. 802.11n at HT20 of CH01



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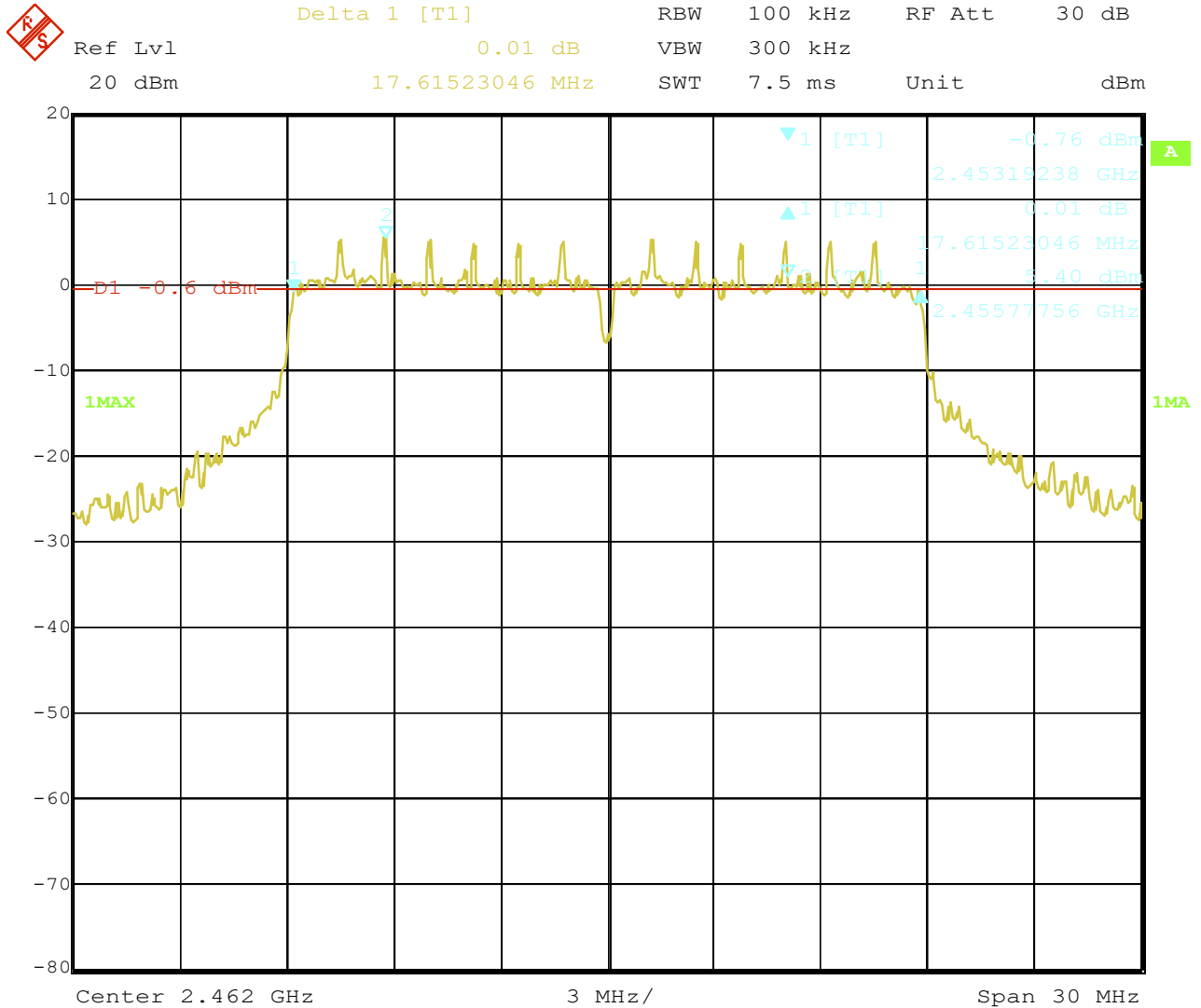


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3. 802.11n at HT20 of CH11



Date: 17.OCT.2020 14:01:23

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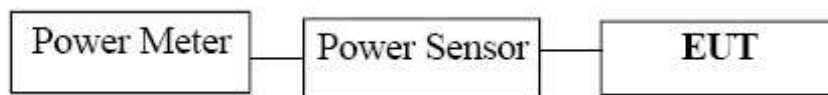
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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the AV power was measured

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8.4 Test Results

EUT		Mini Smart TV		Model		TJ800	
Mode		802.11b		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Max. Power Output (dBm)				Power Limit (dBm)	Pass/ Fail
1	2412	15.10				30	Pass
6	2437	14.81				30	Pass
11	2462	14.64				30	Pass

Note: 1. At final test to get the worst-case emission at 1Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

3. The worse case was recorded

EUT		Mini Smart TV		Model		TJ800	
Mode		802.11g		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Max. Power Output (dBm)				Power Limit (dBm)	Pass/ Fail
1	2412	13.29				30	Pass
6	2437	12.87				30	Pass
11	2462	12.49				30	Pass

Note: 1. At final test to get the worst-case emission at 6Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

3. The worse case was recorded

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EUT		Mini Smart TV		Model		TJ800	
Mode		802.11n (HT20)		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Max. Power Output (dBm)				Power Limit (dBm)	Pass/ Fail
1	2412	13.21				30	Pass
6	2437	12.80				30	Pass
11	2462	12.45				30	Pass

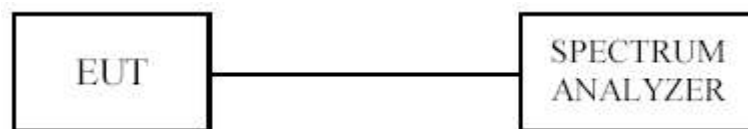
- Note: 1. At final test to get the worst-case emission at mcs0 of 11n HT20 for CH01, CH06 and CH11
2. The result basic equation calculation as follow:
Power Output = Power Reading + Cable loss + Attenuator
3. The worse case was recorded

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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/3kHz.

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/3kHz.

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9.4 Test Result

EUT		Mini Smart TV		Model	TJ800	
Mode		802.11b 11Mbps		Input Voltage	120V~	
Temperature		24 deg. C,		Humidity	56% RH	
Channel	Frequency (MHz)		Power Spectral Density		Limit (dBm/3kHz)	Pass/ Fail
1	2412		0.04		8	Pass
6	2437		-0.33		8	Pass
11	2462		-0.61		8	Pass

EUT		Mini Smart TV		Model	TJ800	
Mode		802.11b 1Mbps		Input Voltage	120V~	
Temperature		24 deg. C,		Humidity	56% RH	
Channel	Frequency (MHz)		Power Spectral Density		Limit (dBm/3kHz)	Pass/ Fail
1	2412		0.53		8	Pass
6	2437		0.28		8	Pass
11	2462		0.00		8	Pass

EUT		Mini Smart TV		Model	TJ800	
Mode		802.11g 6Mbps		Input Voltage	120V~	
Temperature		24 deg. C,		Humidity	56% RH	
Channel	Frequency (MHz)		Power Spectral Density		Limit (dBm/3kHz)	Pass/ Fail
1	2412		-4.02		8	Pass
6	2437		-4.48		8	Pass
11	2462		-4.72		8	Pass

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EUT		Mini Smart TV		Model		TJ800	
Mode		802.11n HT20 mcs0		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)		Power Spectral Density		Limit (dBm)		Pass/ Fail
1	2412		-3.02		8		Pass
6	2437		-3.43		8		Pass
11	2462		-3.80		8		Pass

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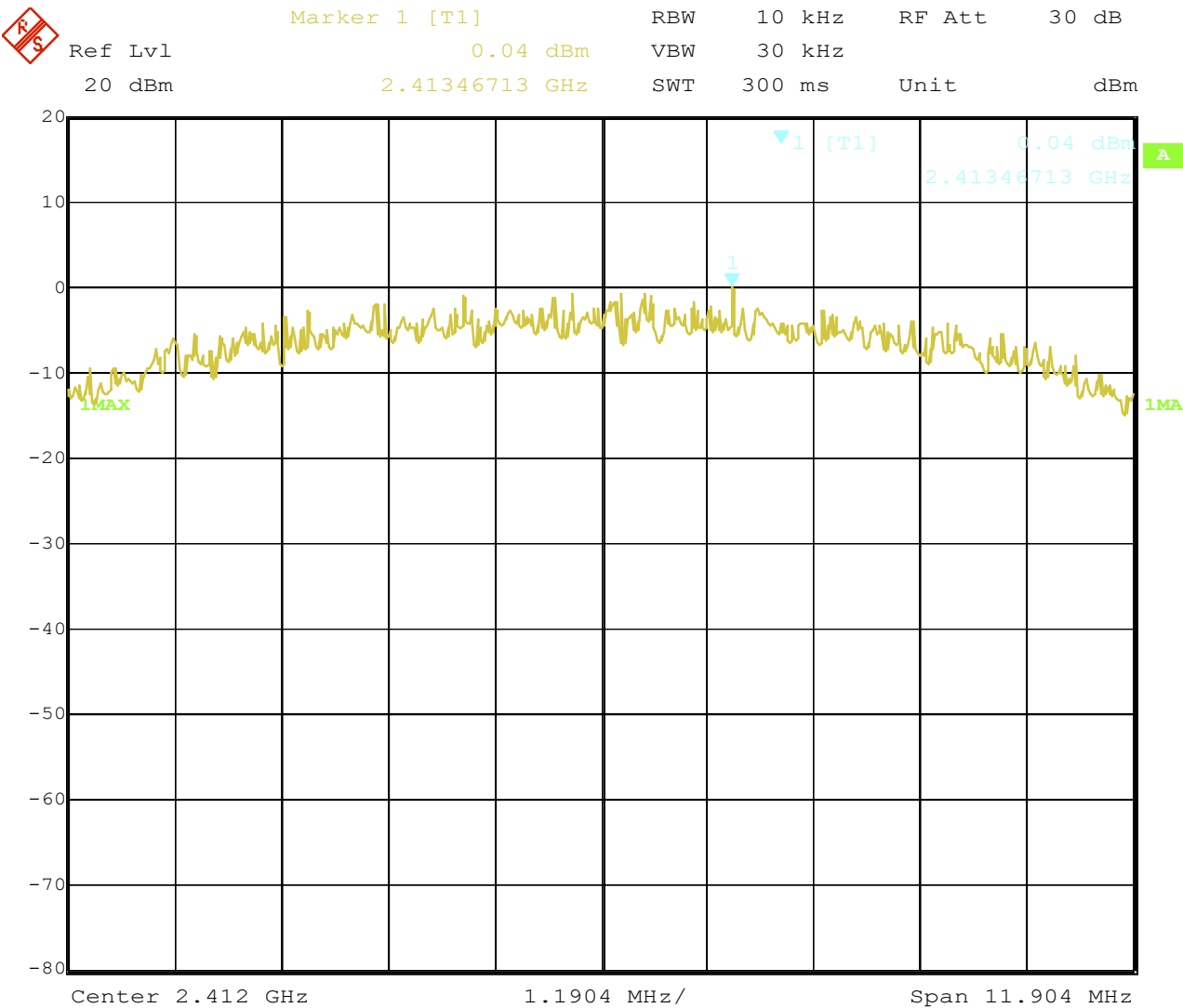
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9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01

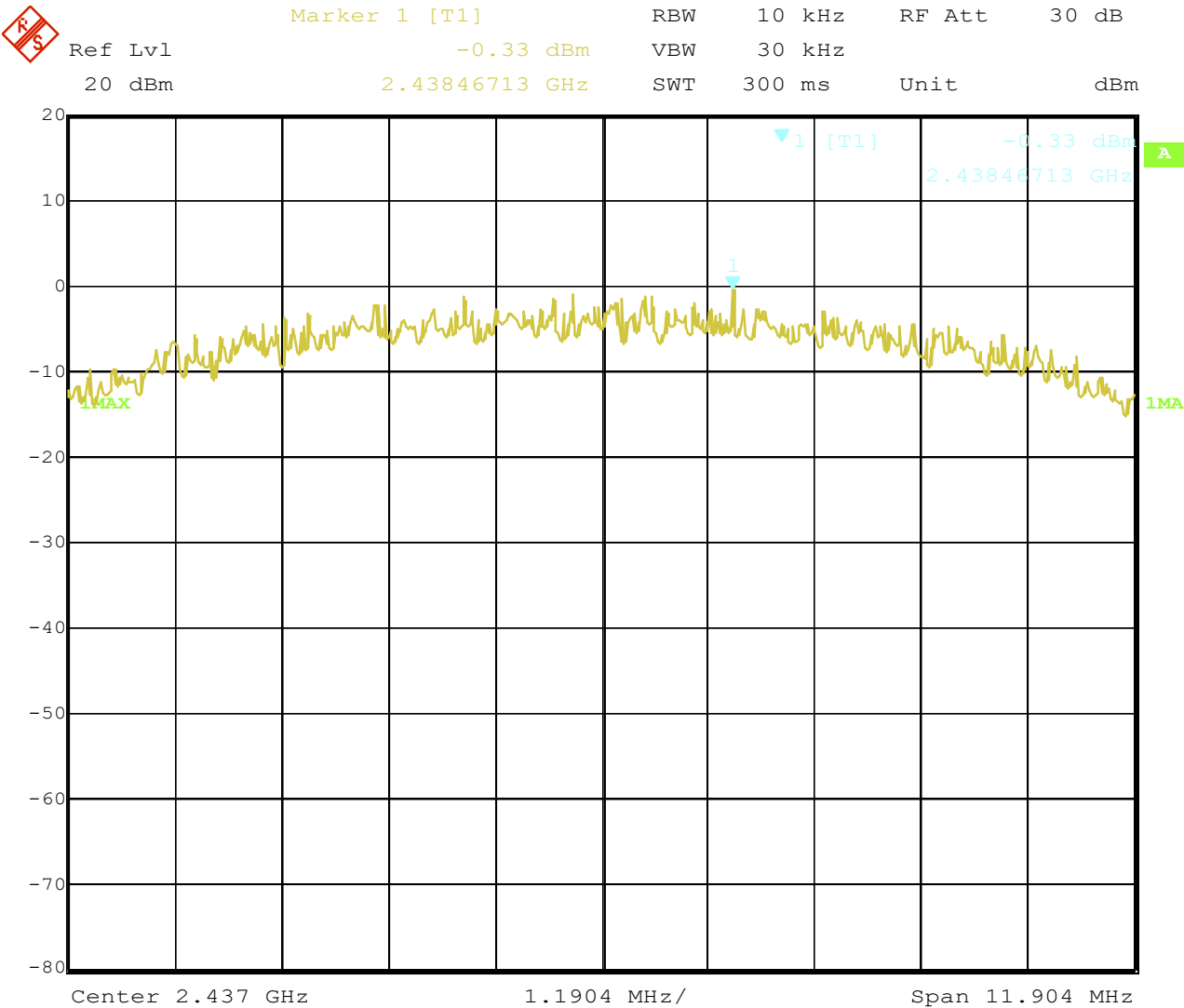


Date: 17.OCT.2020 14:25:04

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2. 802.11b at 11Mbps at CH06

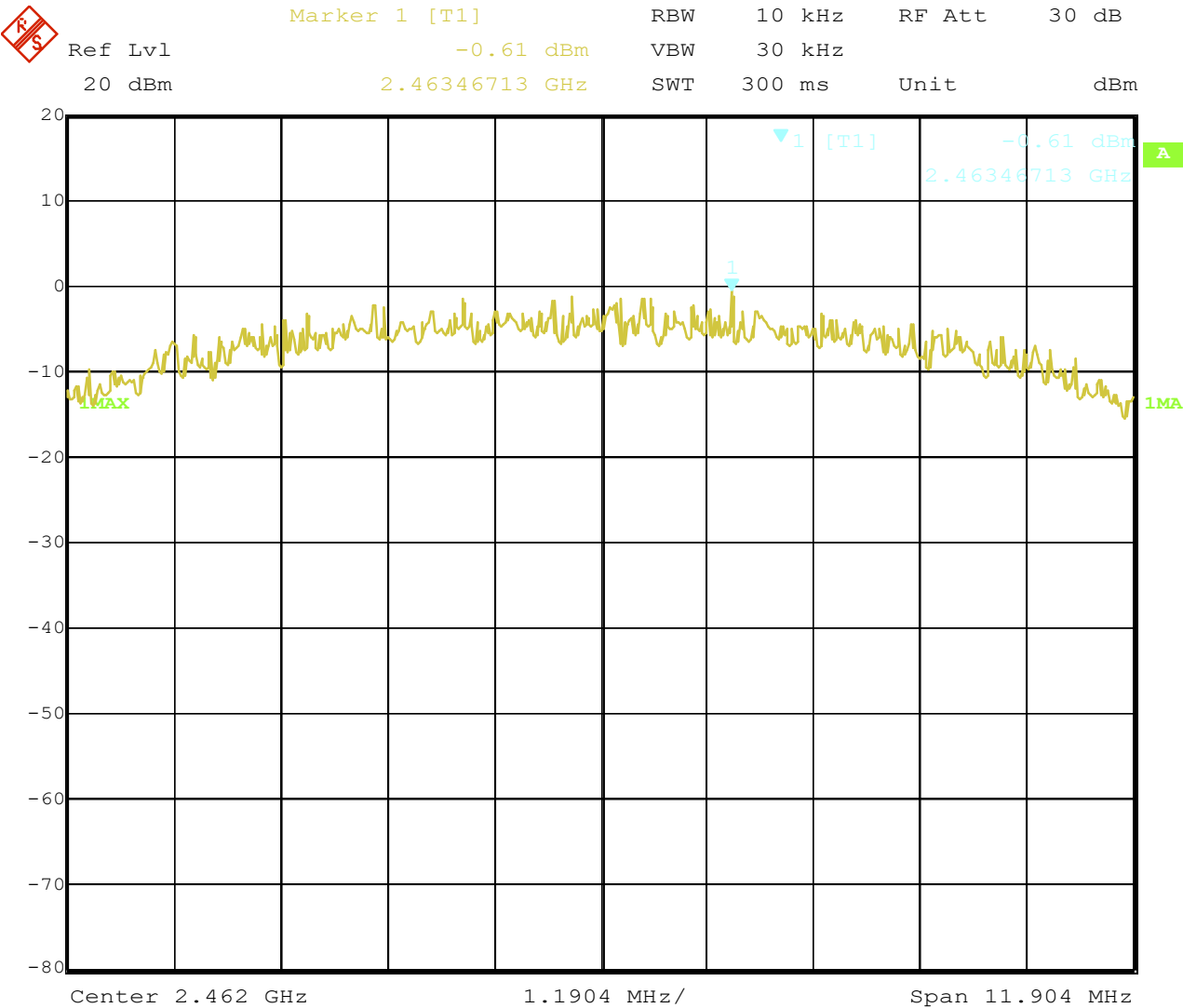


Date: 17.OCT.2020 14:25:51

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3. 802.11b at 11Mbps of CH11

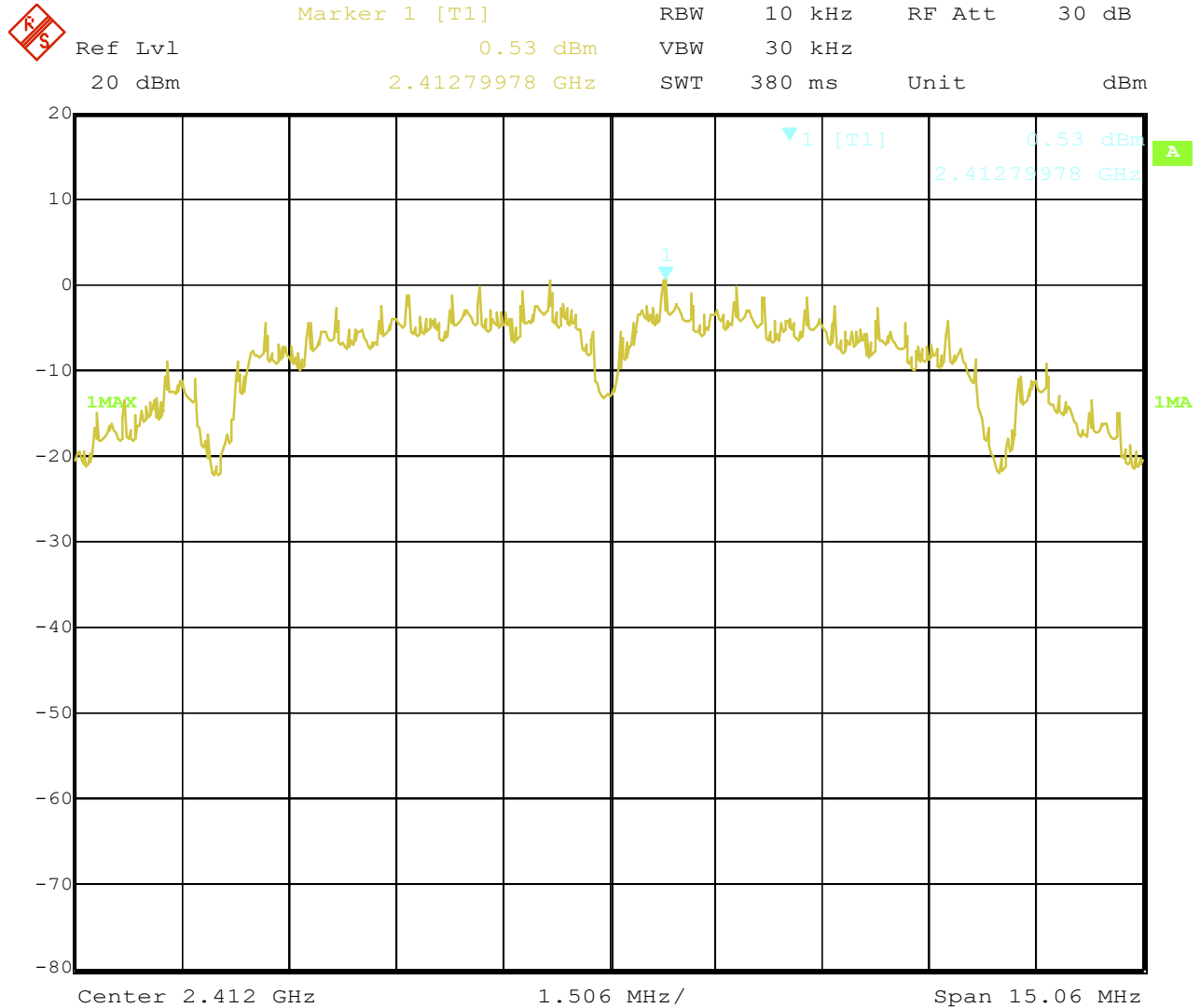


Date: 17.OCT.2020 14:26:56

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4. 802.11b at 1Mbps of CH1

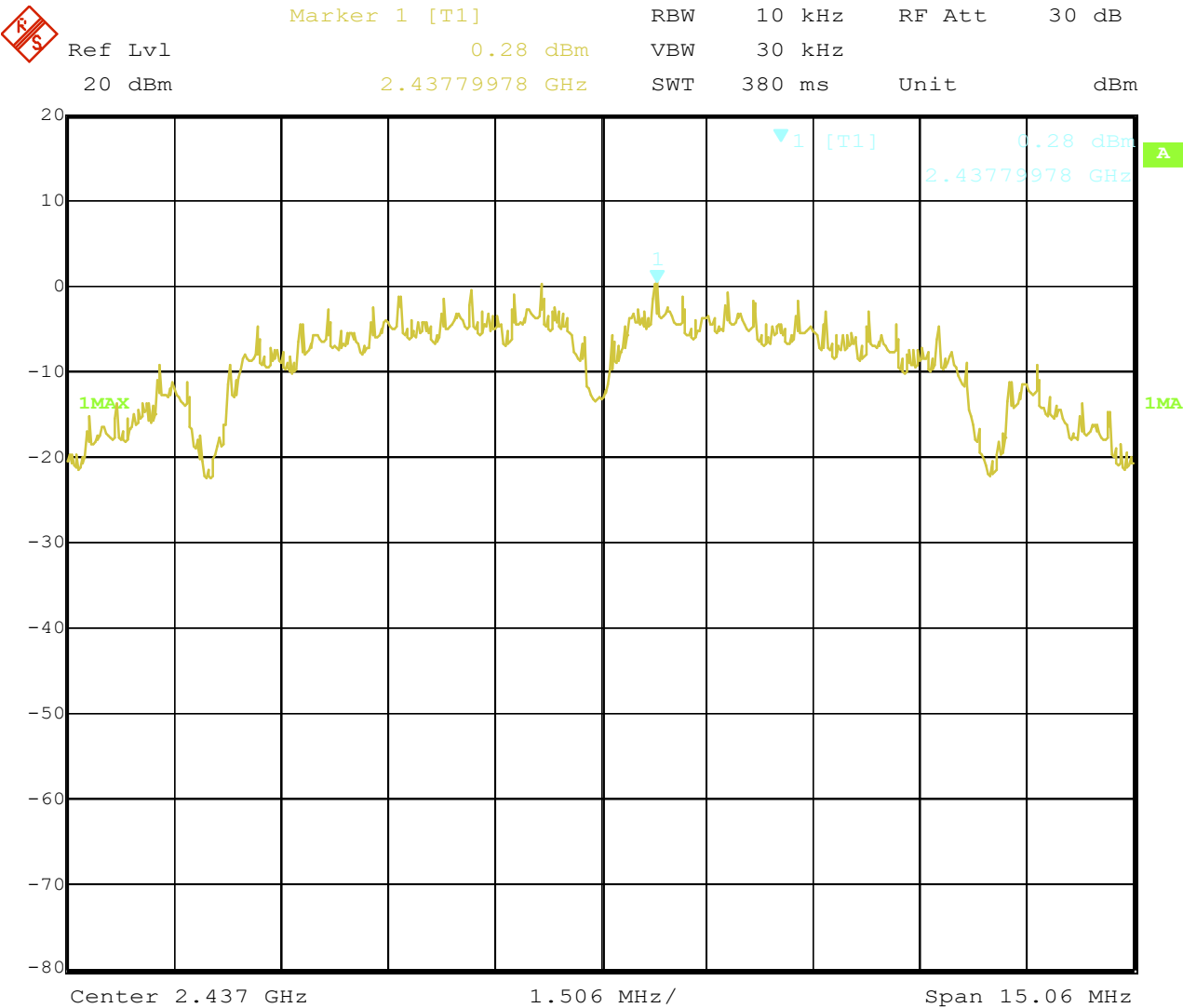


Date: 17.OCT.2020 14:21:12

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5. 802.11b at 1Mbps of CH6

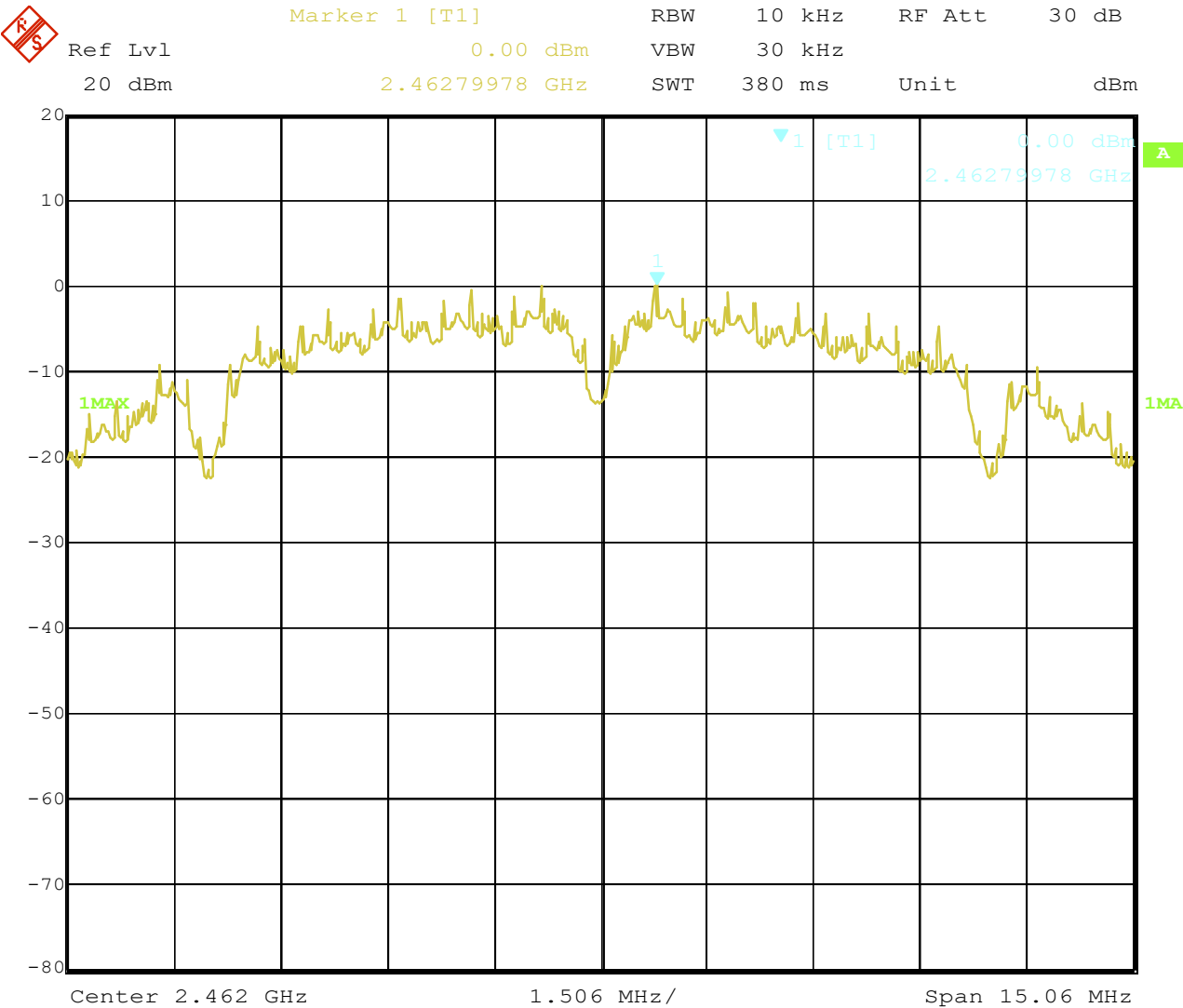


Date: 17.OCT.2020 14:21:53

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6. 802.11b at 1Mbps of CH11

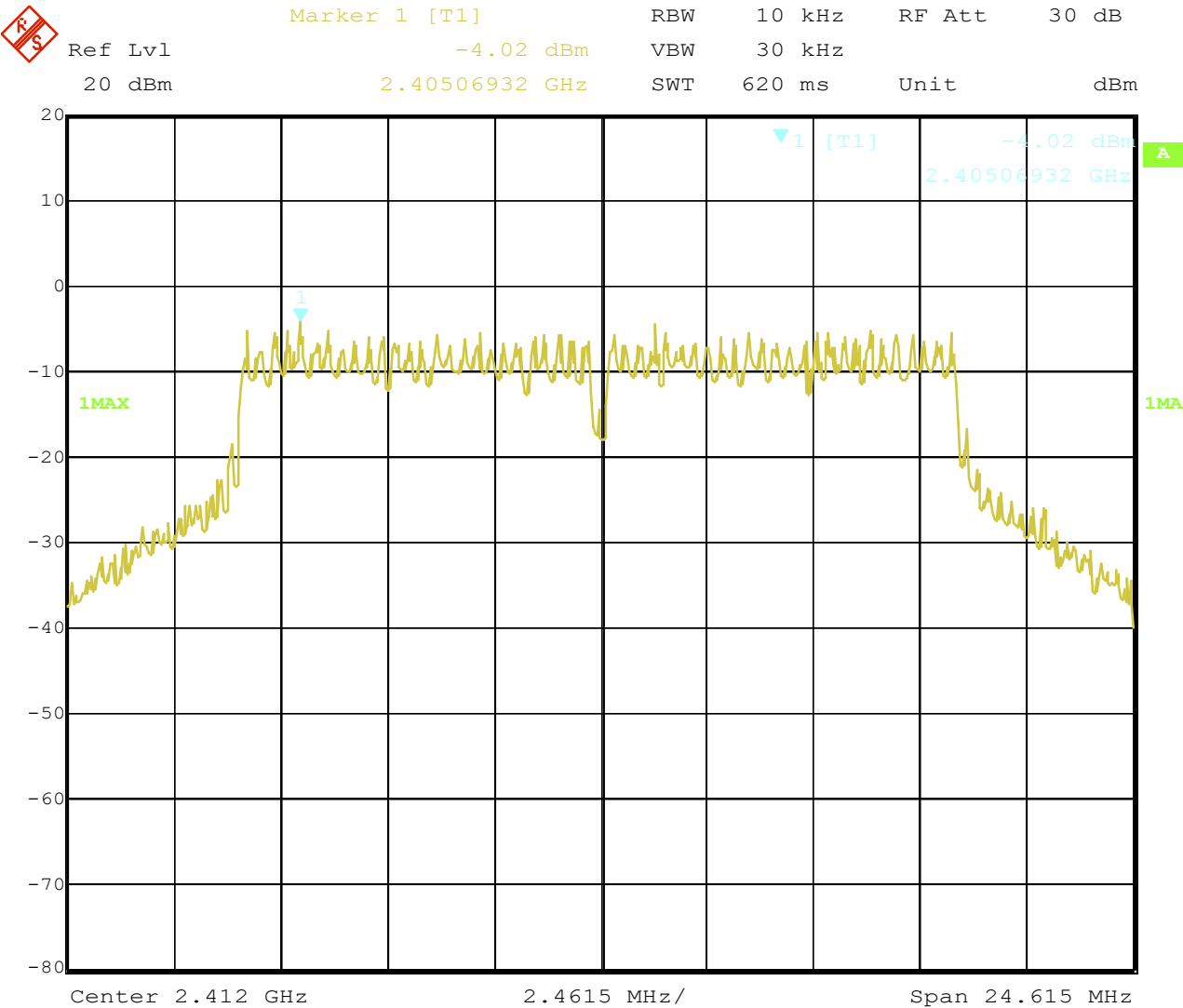


Date: 17.OCT.2020 14:22:52

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7. 802.11g at 6Mbps of CH1

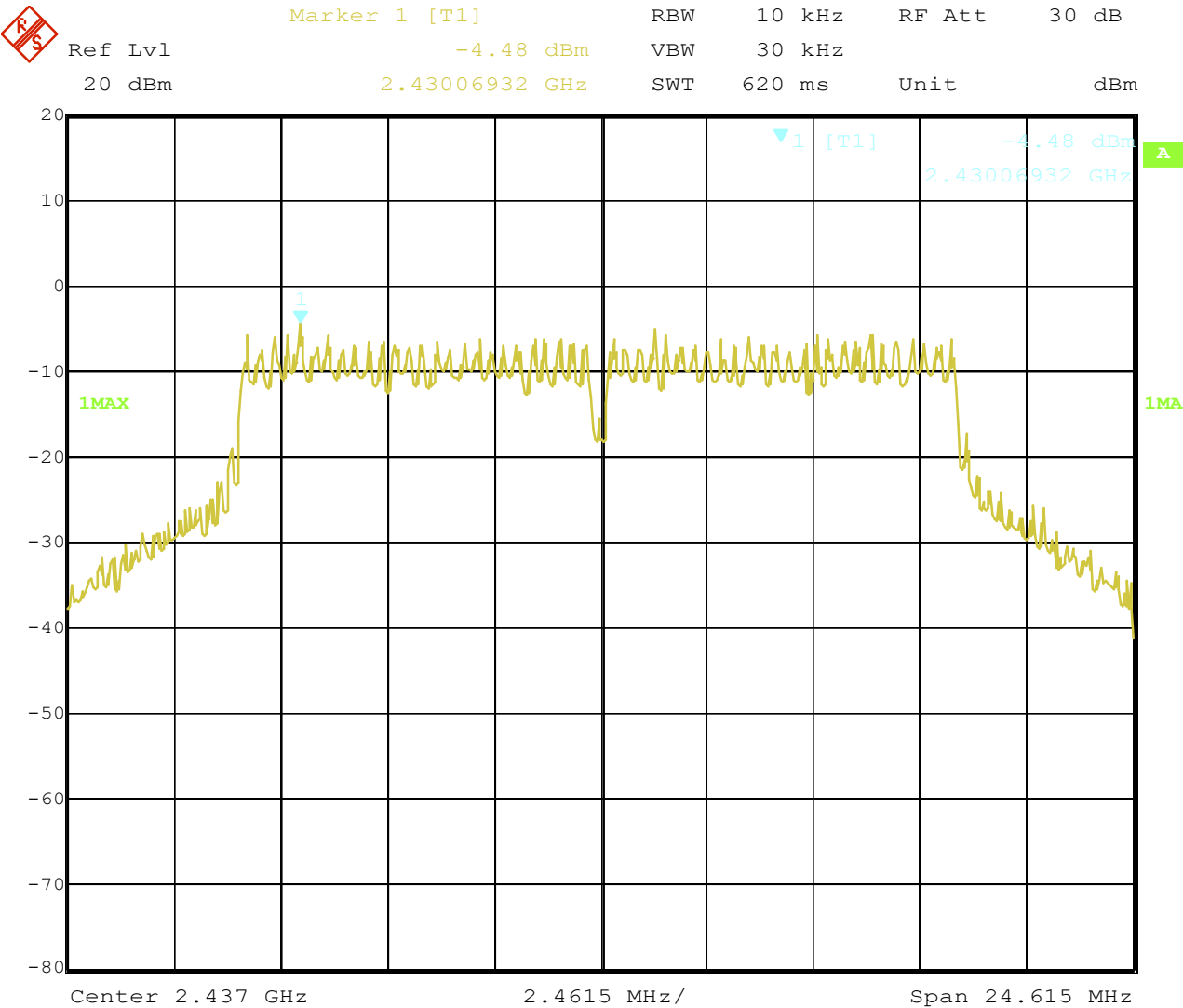


Date: 17.OCT.2020 14:29:32

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8. 802.11g at 6Mbps of CH6

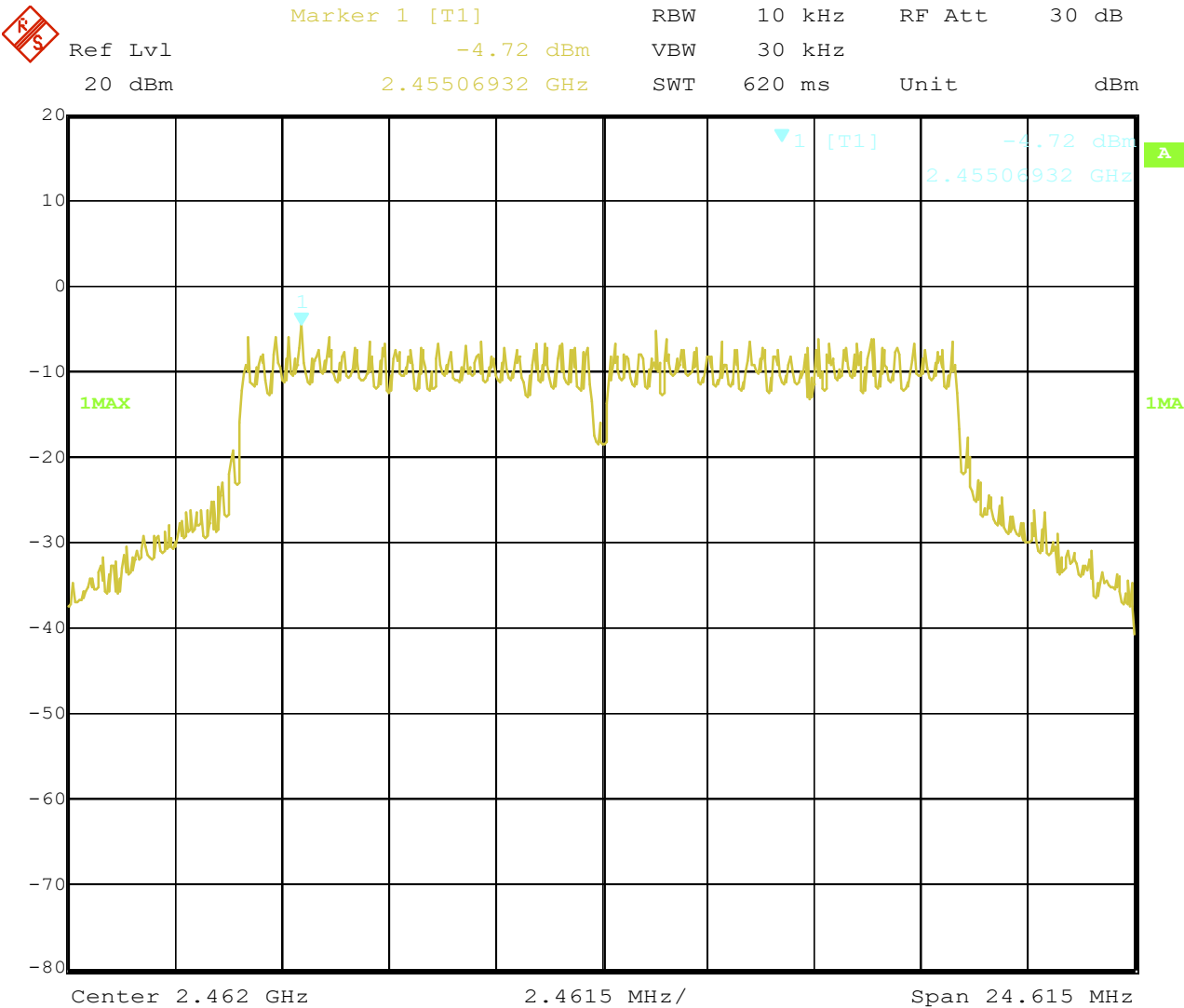


Date: 17.OCT.2020 14:28:52

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9. 802.11g at 6Mbps of CH11

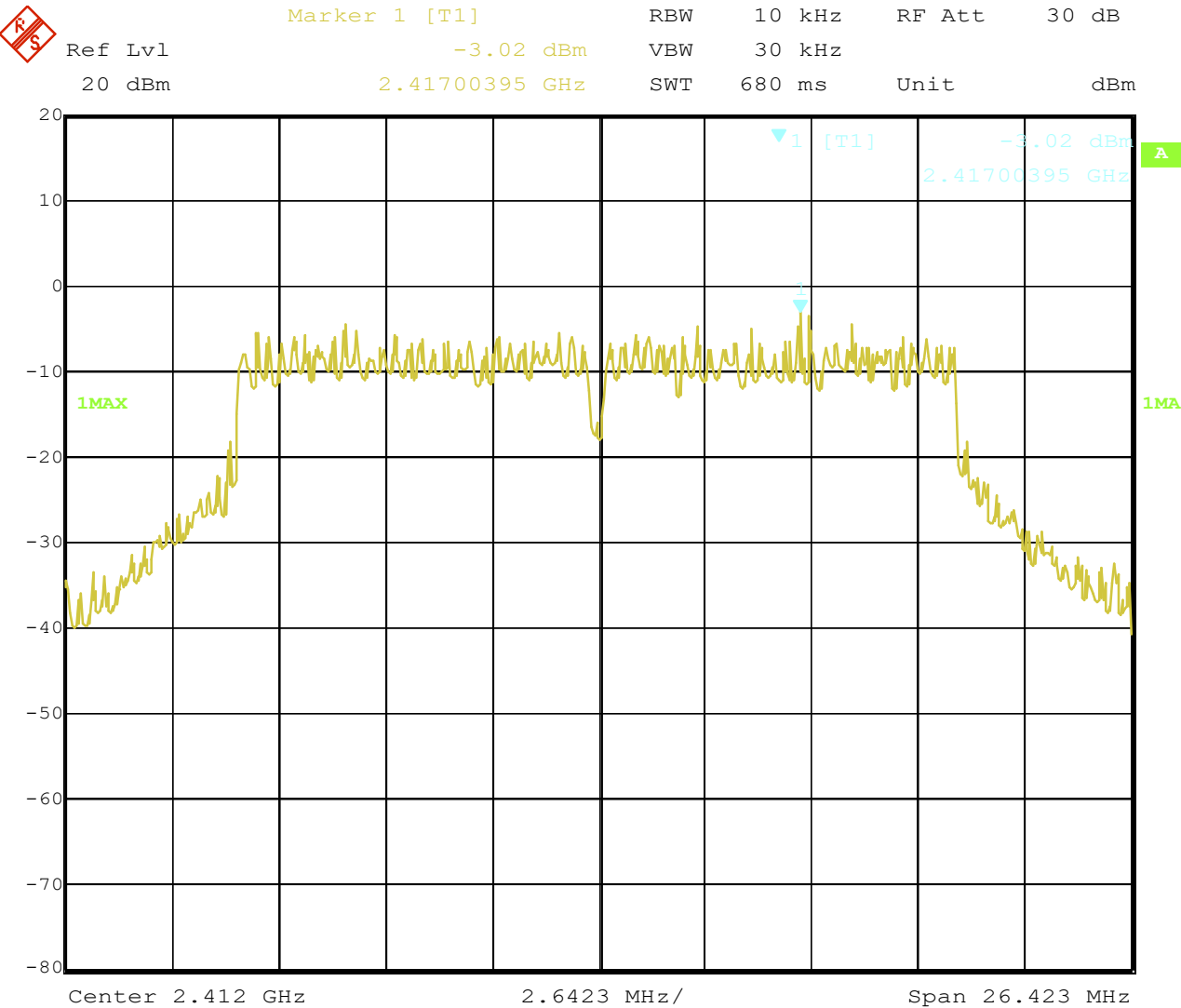


Date: 17.OCT.2020 14:28:04

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10. 802.11n at HT20 of CH01

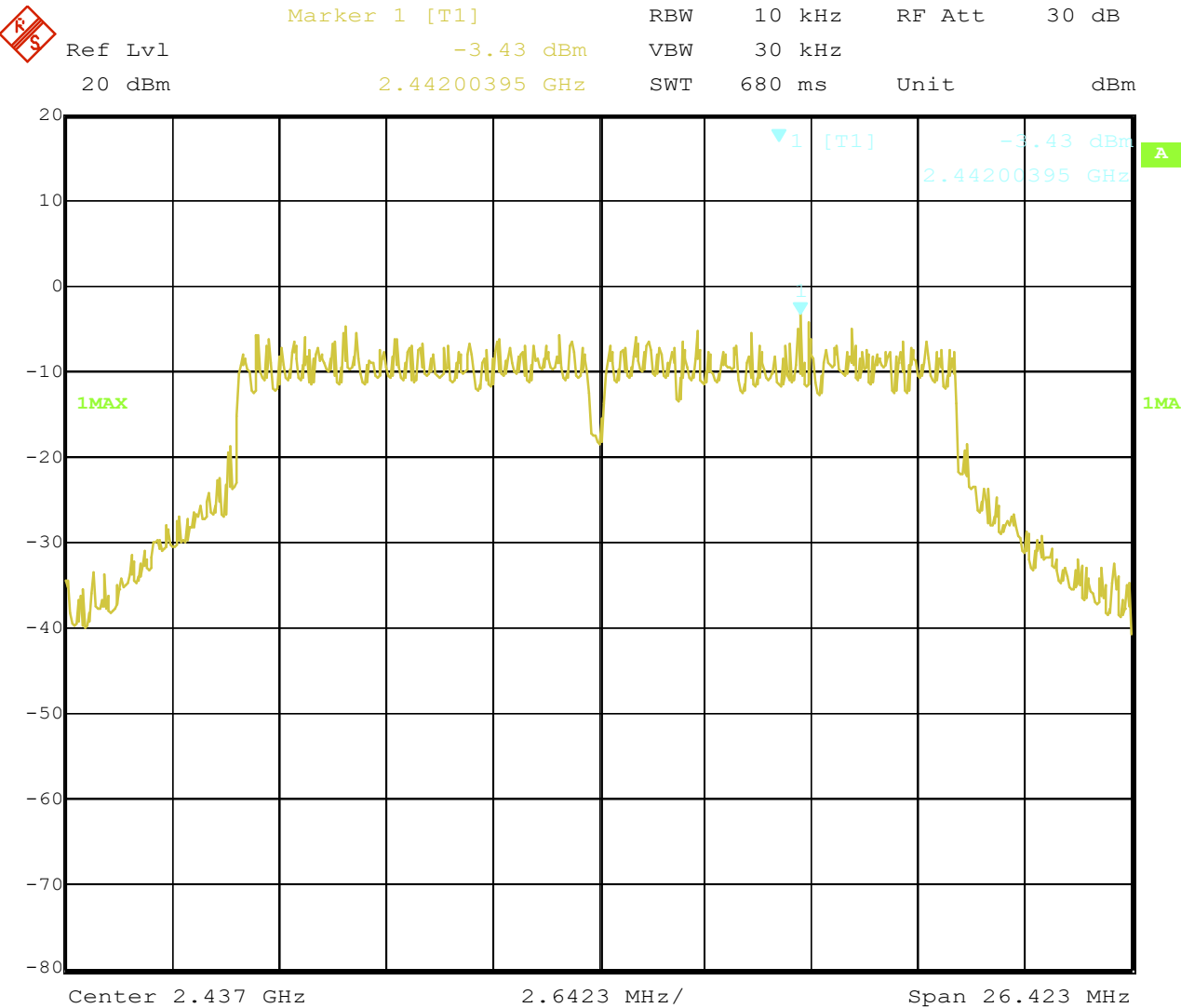


Date: 17.OCT.2020 14:30:48

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11. 802.11n at HT20 of CH06

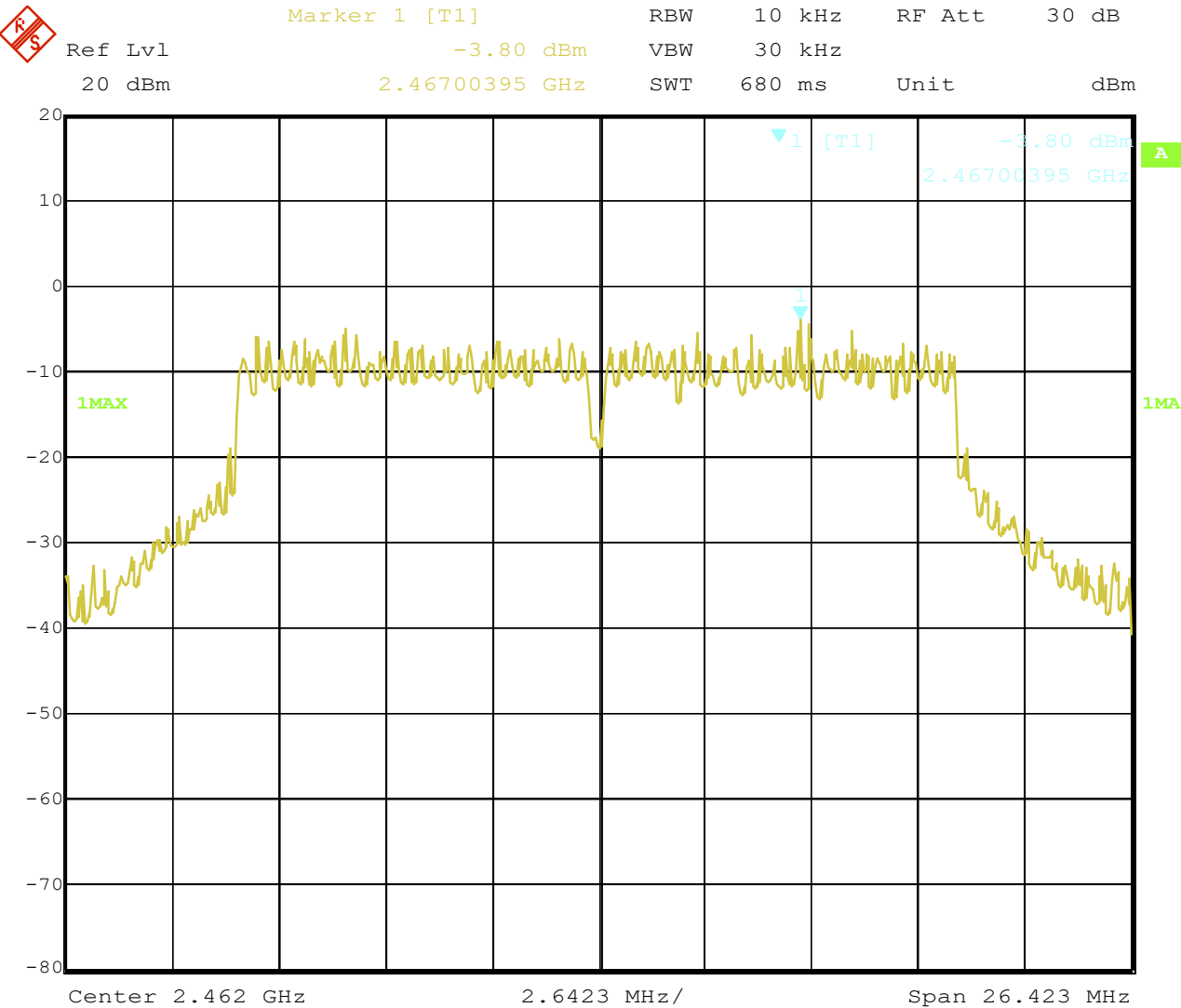


Date: 17.OCT.2020 14:31:34

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12. 802.11n at HT20 of CH11



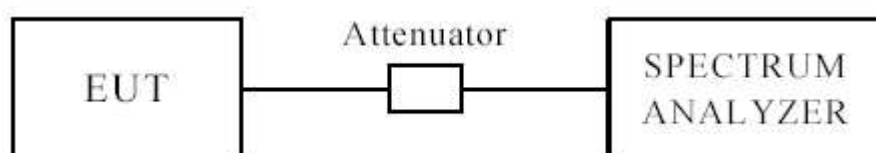
Date: 17.OCT.2020 14:32:50

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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=10Hz and PK 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: For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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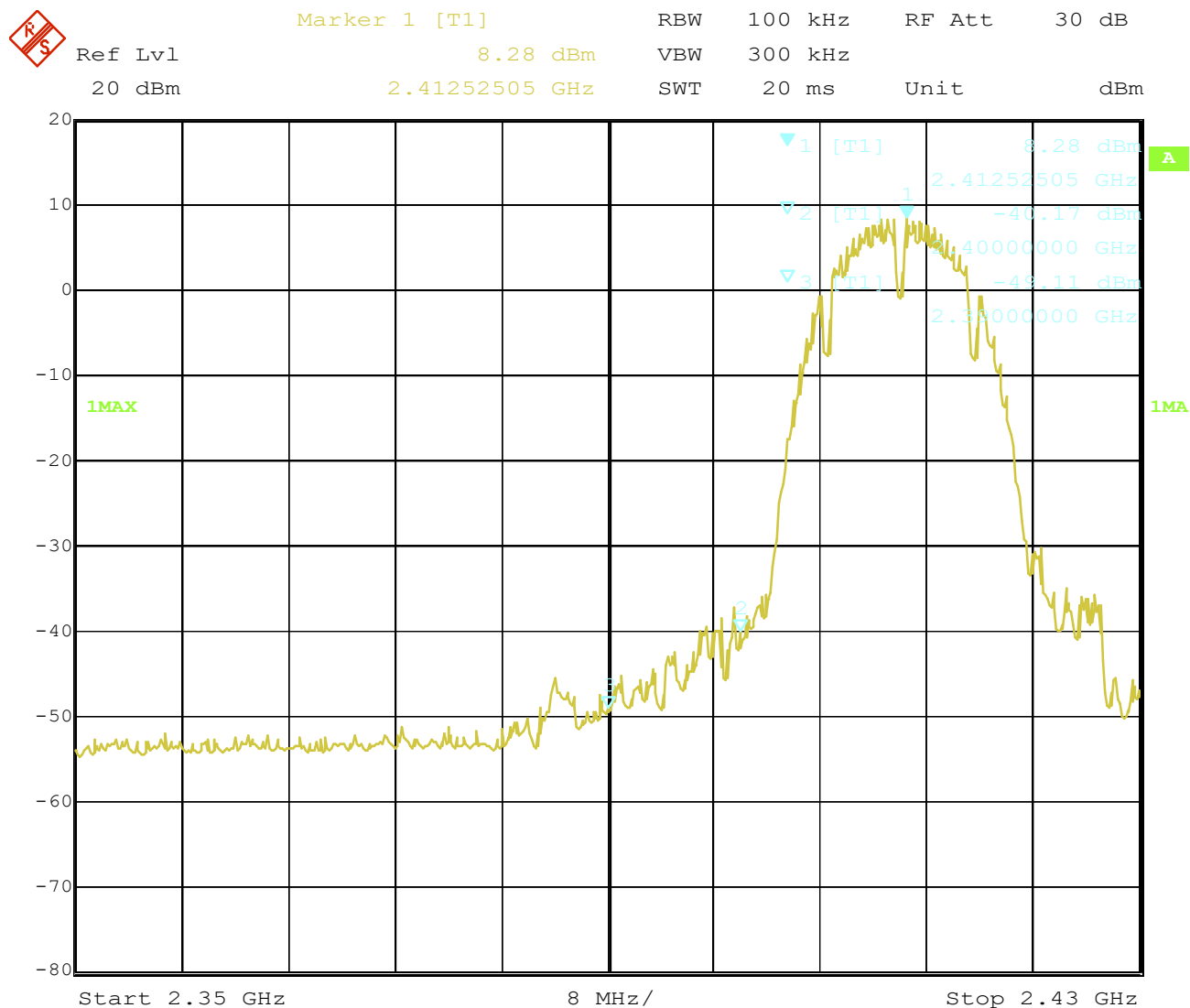
For 802.11b mode

CH01 at 1Mbps

10.4 Band-edge Measurement

EUT	Mini Smart TV	Model	TJ800
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 17.OCT.2020 14:13:23

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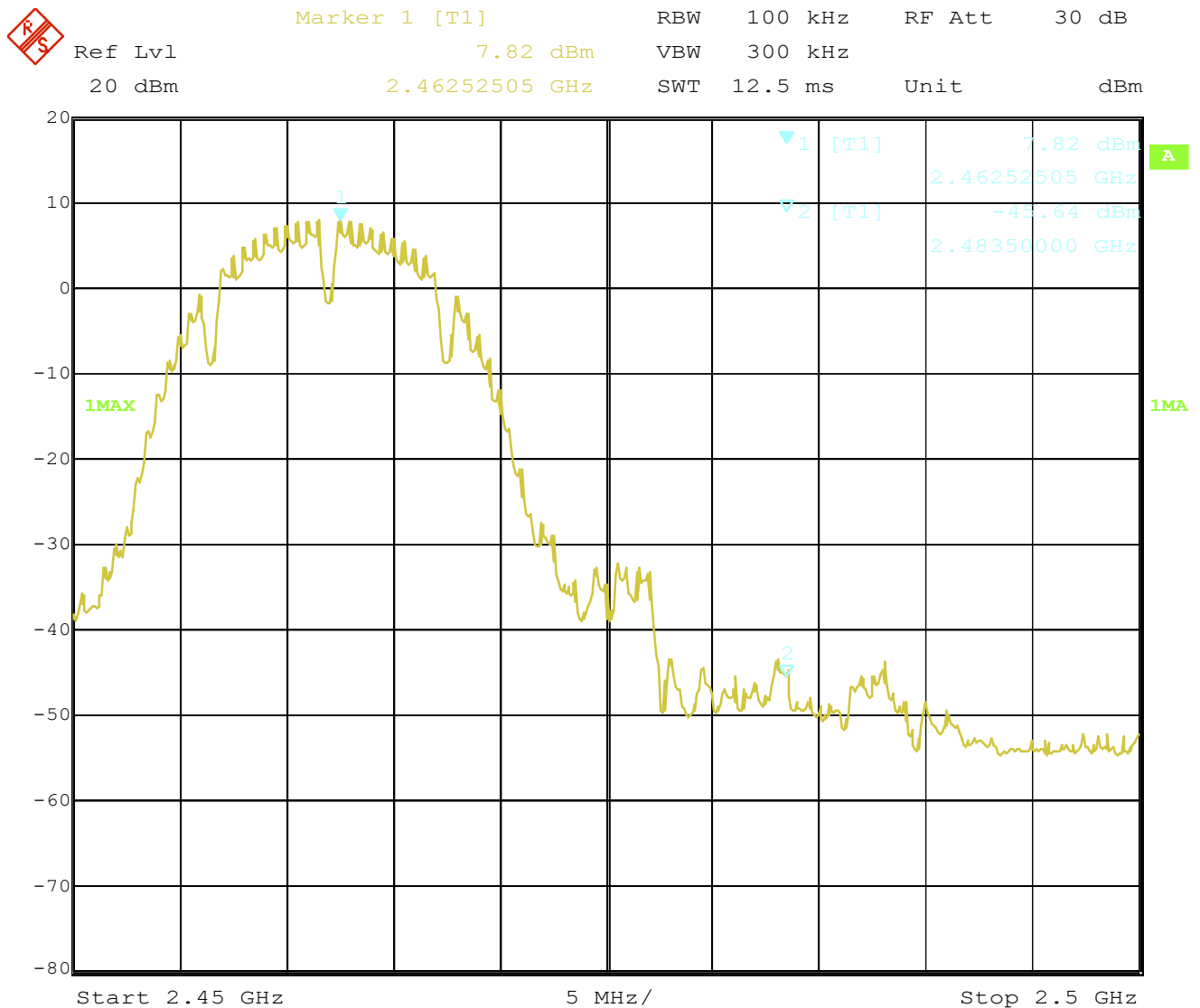


CH11 at 1Mbps

10.4 Band-edge Measurement

EUT	Mini Smart TV	Model	TJ800
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 17.OCT.2020 14:17:53

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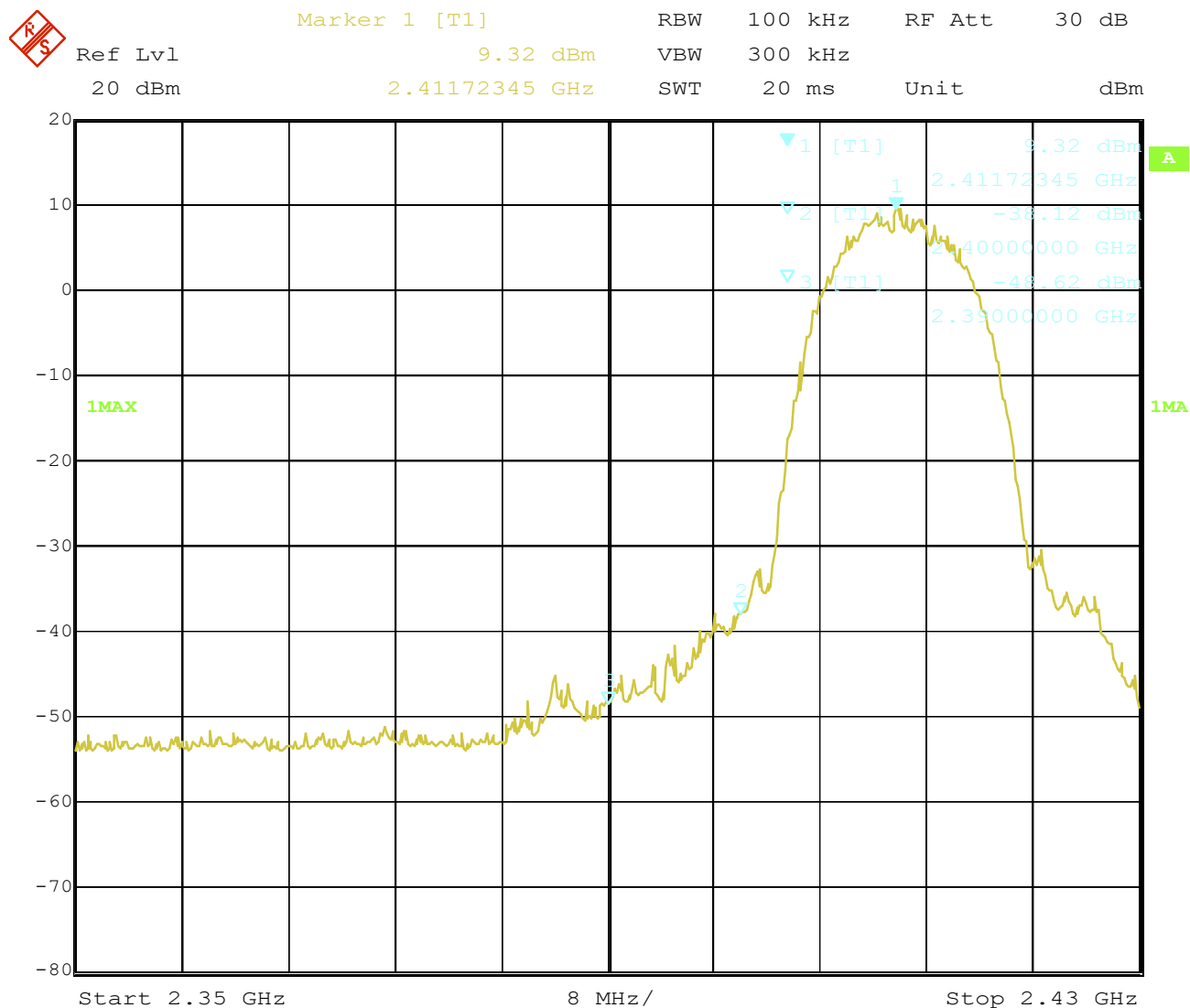
For 802.11b mode

CH01 at 11Mbps

10.4 Band-edge Measurement

EUT	Mini Smart TV	Model	TJ800
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 17.OCT.2020 14:14:40

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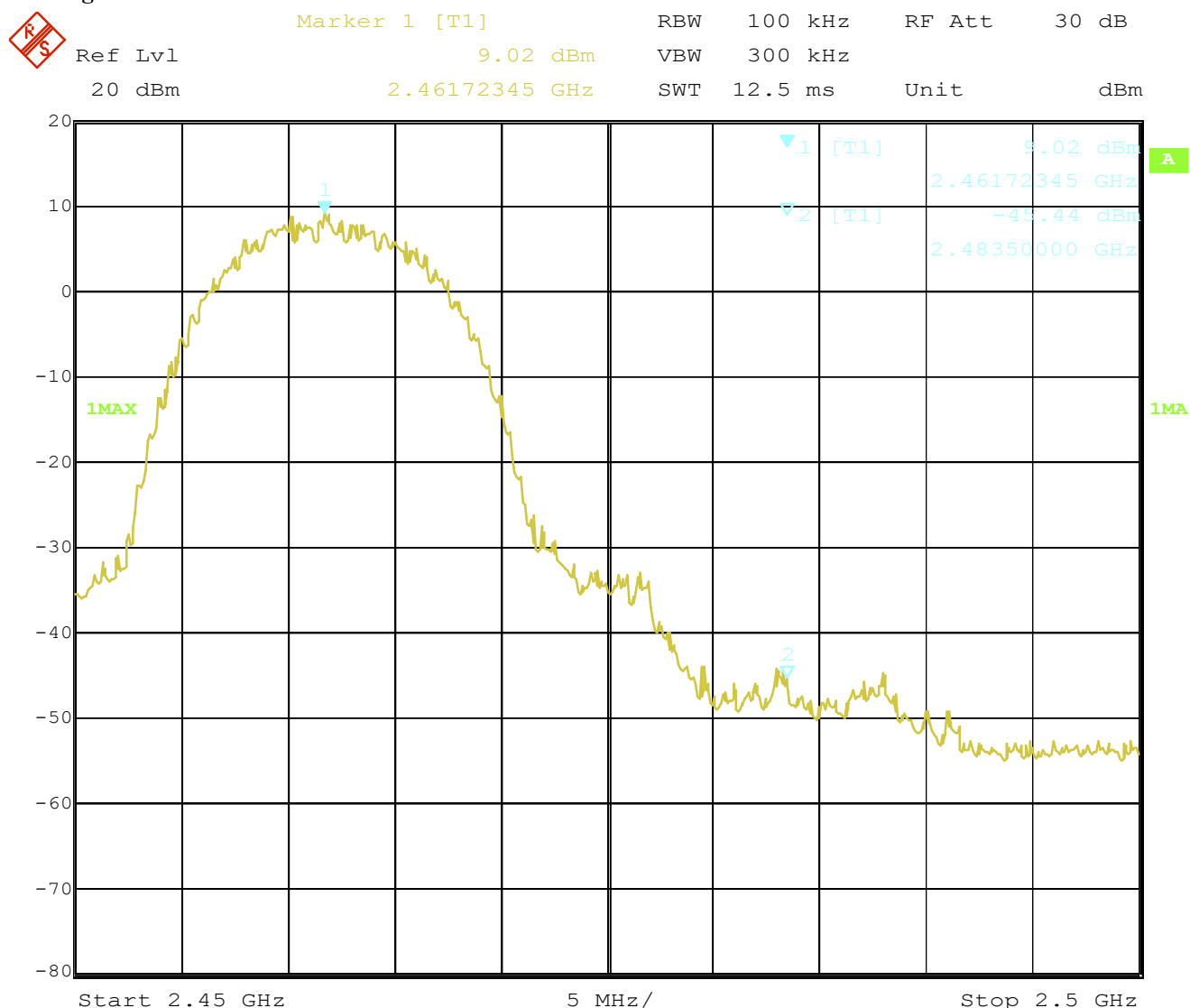


CH11 at 11Mbps

10.4 Band-edge Measurement

EUT	Mini Smart TV	Model	TJ800
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 17.OCT.2020 14:18:37

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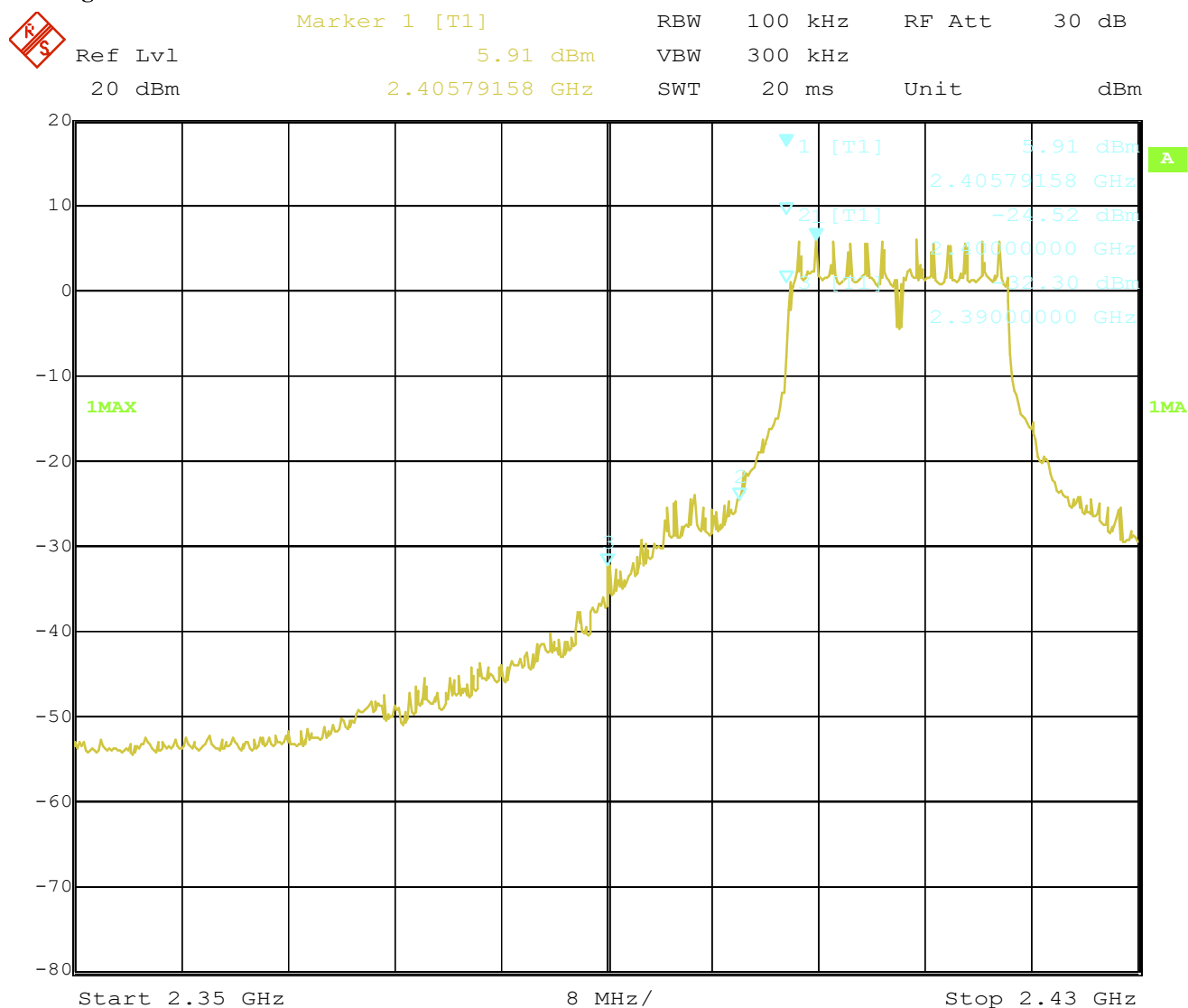
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CH01 at 6Mbps

10.4 Band-edge Measurement

EUT	Mini Smart TV	Model	TJ800
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 17.OCT.2020 14:12:38

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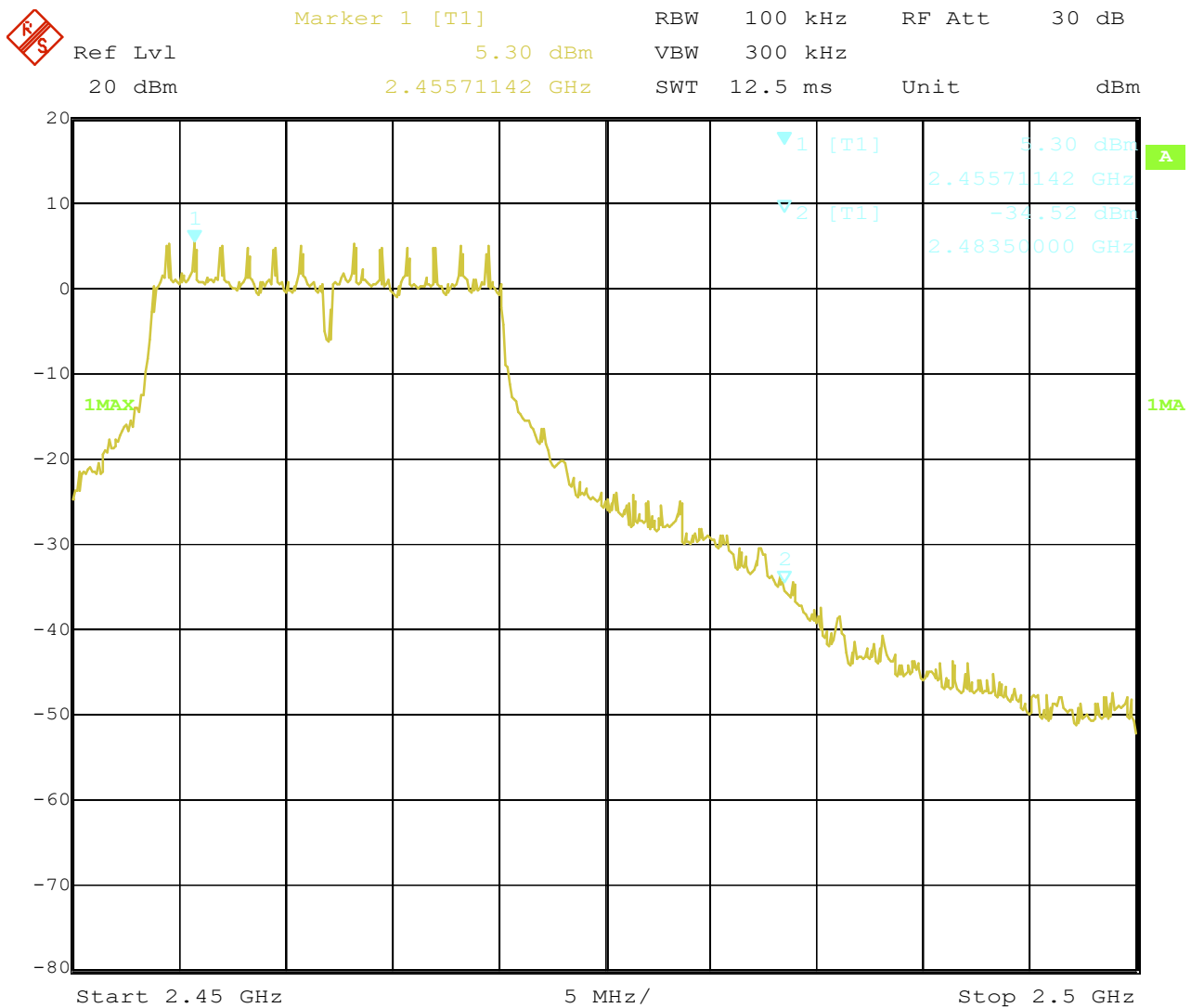


CH11 at 6Mbps

10.4 Band-edge Measurement

EUT	Mini Smart TV	Model	TJ800
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 17.OCT.2020 14:19:29

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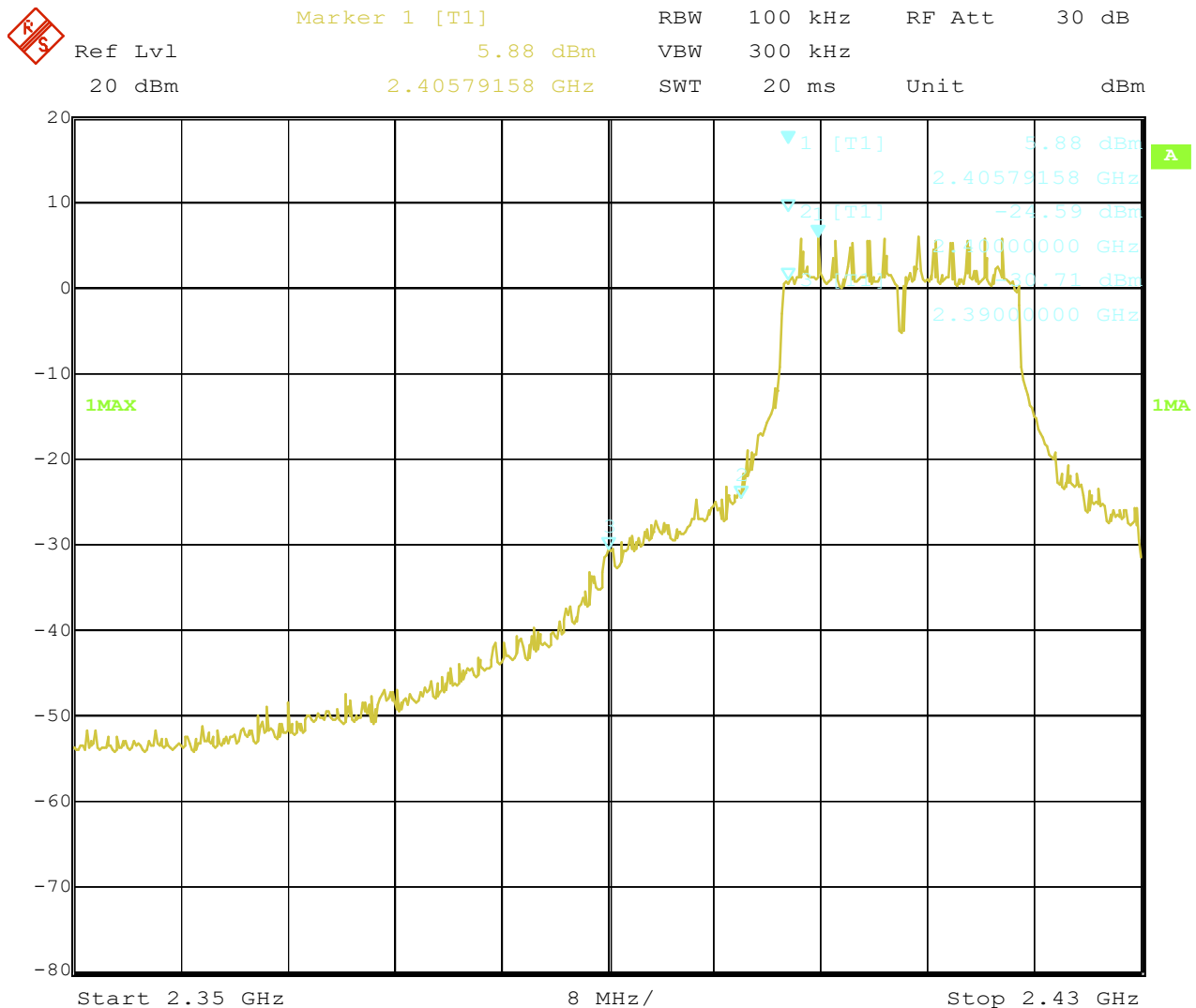
For 802.11n (HT20) mode

CH01 at mcs0

10.4 Band-edge Measurement

EUT	Mini Smart TV	Model	TJ800
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 17.OCT.2020 14:15:42

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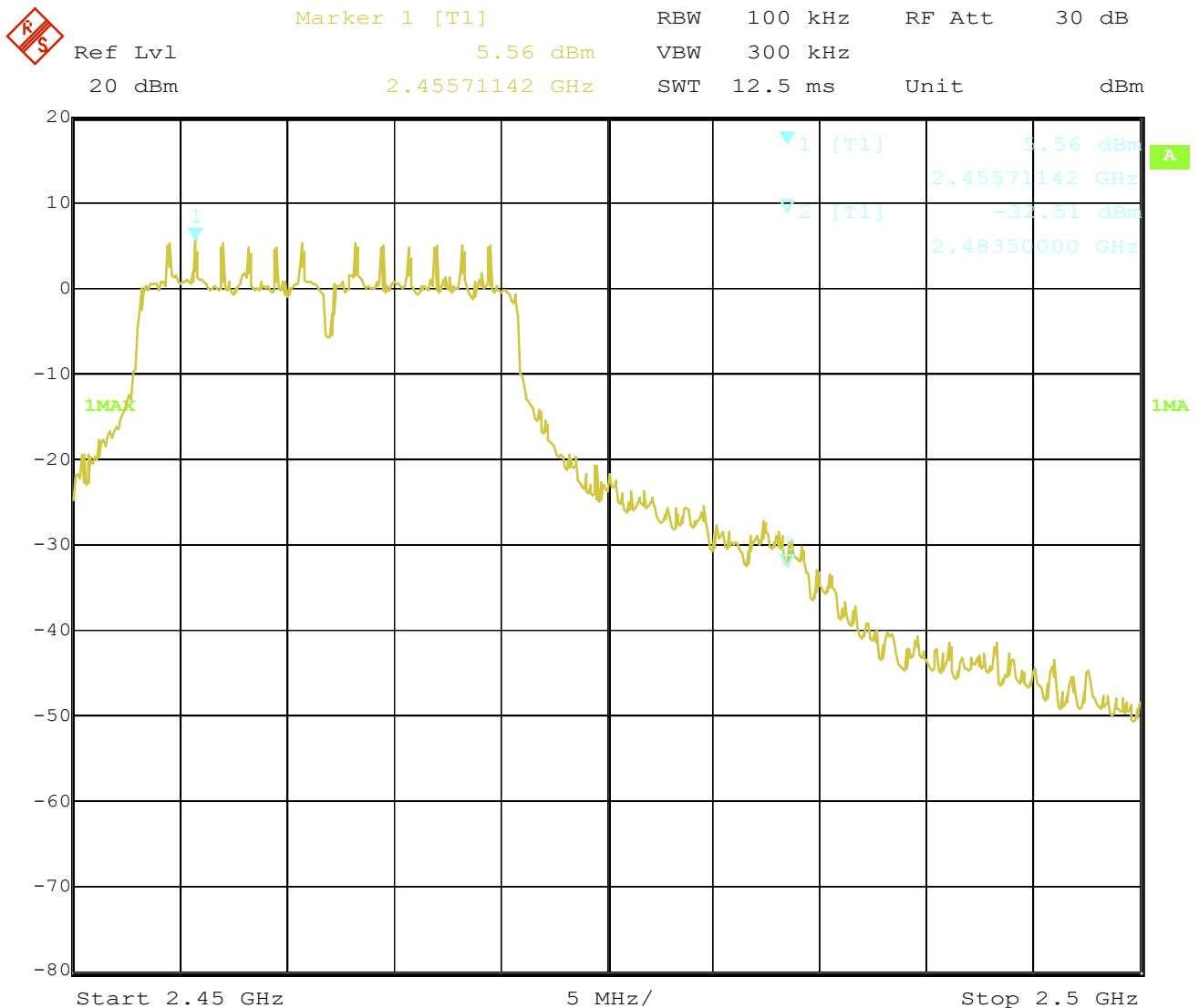


CH11 at mcs0

10.4 Band-edge Measurement

EUT	Mini Smart TV	Model	TJ800
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 17.OCT.2020 14:16:56

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10.5 Restricted band Measurement

EUT	Mini Smart TV		Model	TJ800
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, Low Channel, Horizontal				
2390	PK (dBμV/m)	47.80	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11b mode, Vertical				
2390	PK (dBμV/m)	45.12	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

10.5 Restricted band Measurement

EUT	Mini Smart TV		Model	TJ800
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, High Channel, Horizontal				
2483.5	PK (dBμV/m)	50.71	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11b mode, High Channel, Vertical				
2483.5	PK (dBμV/m)	48.69	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

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10.5 Restricted band Measurement

EUT	Mini Smart TV		Model	TJ800
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, Low Channel, Horizontal				
2390	PK (dBμV/m)	50.06	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11g mode, Vertical				
2390	PK (dBμV/m)	46.32	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

10.5 Restricted band Measurement

EUT	Mini Smart TV		Model	TJ800
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, High Channel, Horizontal				
2483.5	PK (dBμV/m)	57.52	Limit	74(dBμV/m)
	AV (dBμV/m)	38.07		54(dBμV/m)
802.11g mode, High Channel, Vertical				
2483.5	PK (dBμV/m)	53.82	Limit	74(dBμV/m)
	AV (dBμV/m)	34.66		54(dBμV/m)

The report refers only to the sample tested and does not apply to the bulk.

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10.5 Restricted band Measurement

EUT	Mini Smart TV		Model	TJ800
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT20 mode, Low Channel, Horizontal				
2390	PK (dBμV/m)	53.69	Limit	74(dBμV/m)
	AV (dBμV/m)	35.56		54(dBμV/m)
802.11n HT20 mode, Low Channel, Vertical				
2390	PK (dBμV/m)	49.92	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

10.5 Restricted band Measurement

EUT	Mini Smart TV		Model	TJ800
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT20 mode, High Channel, Horizontal				
2483.5	PK (dBμV/m)	59.12	Limit	74(dBμV/m)
	AV (dBμV/m)	41.23		54(dBμV/m)
802.11n HT20 mode, High Channel, Vertical				
2483.5	PK (dBμV/m)	56.37	Limit	74(dBμV/m)
	AV (dBμV/m)	38.06		54(dBμV/m)

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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

PCB antenna used. The gain of 0.5dBi.

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