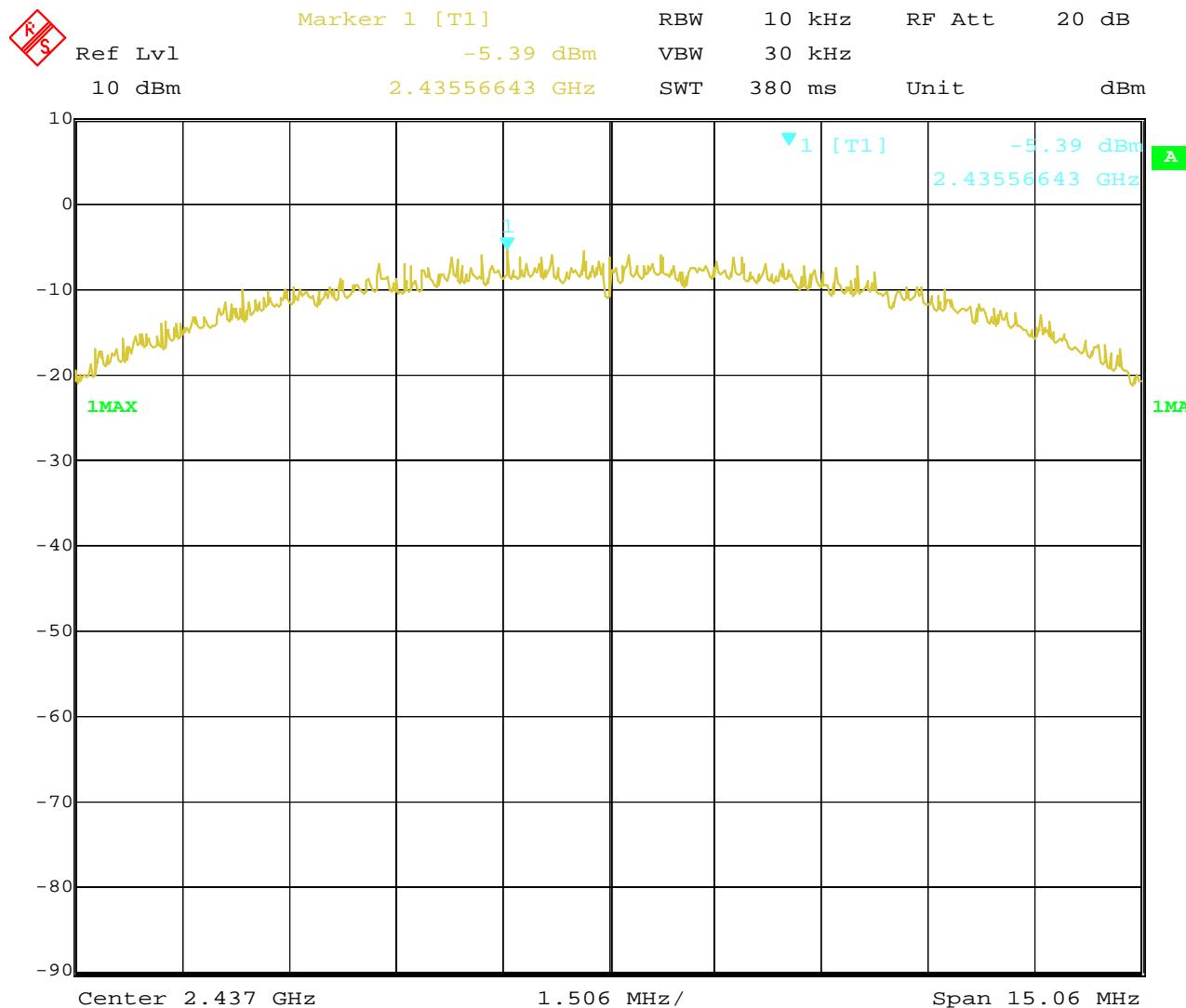




2. 802.11b at 11Mbps at CH06



Date: 25.MAR.2019 15:13:08

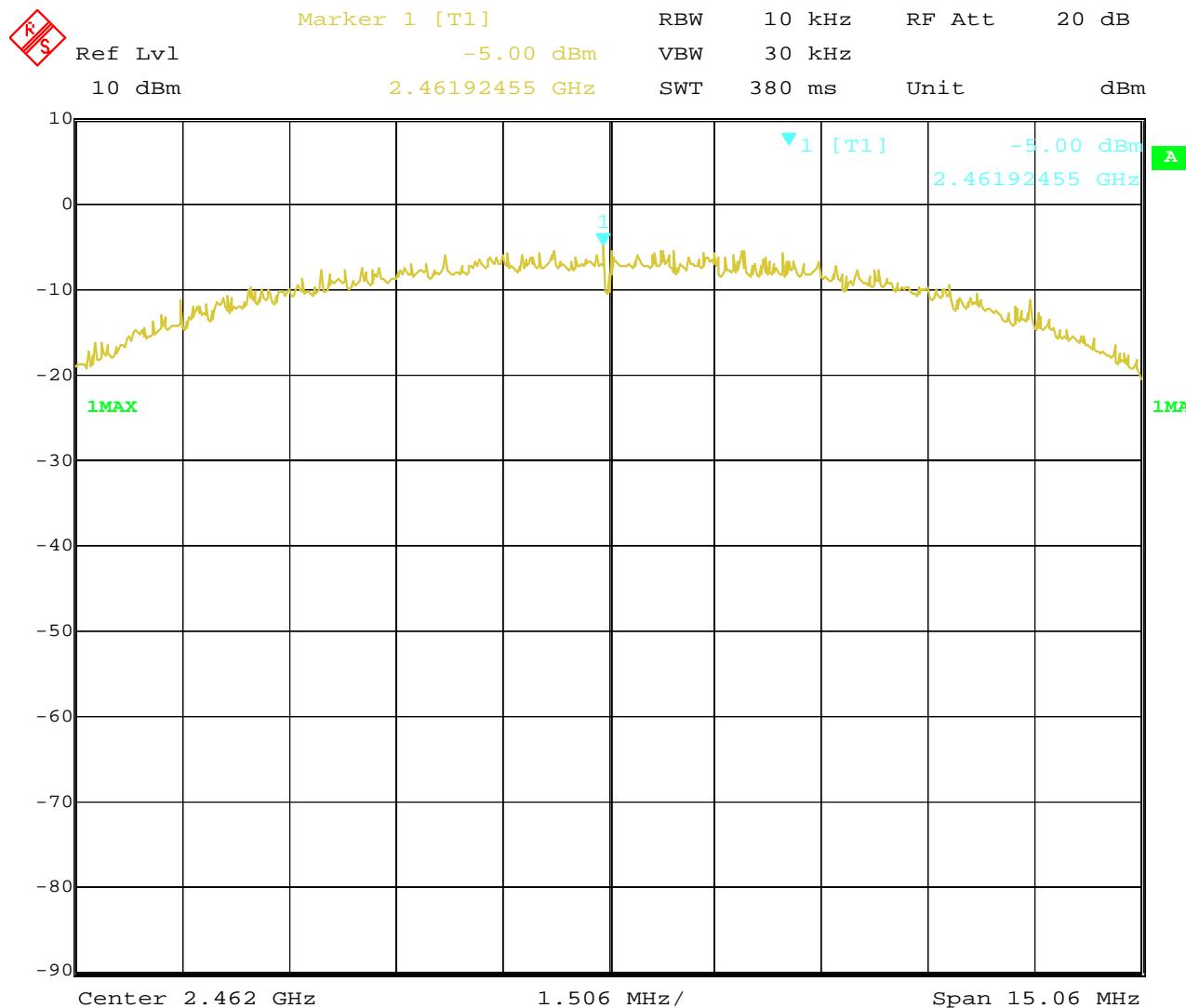
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3. 802.11b at 11Mbps of CH11



Date: 25.MAR.2019 15:14:30

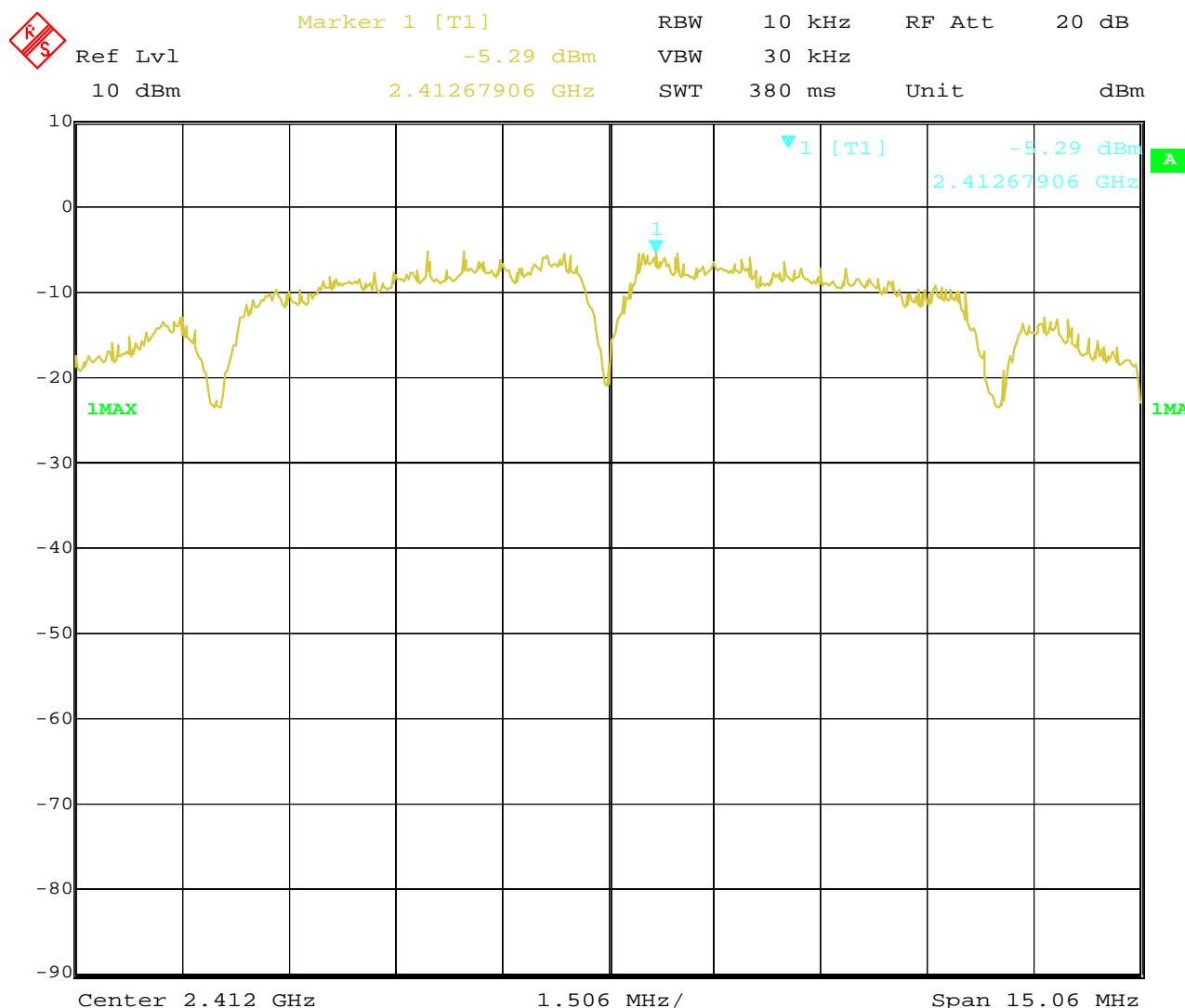
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4. 802.11b at 1Mbps of CH1



Date: 25.MAR.2019 15:16:50

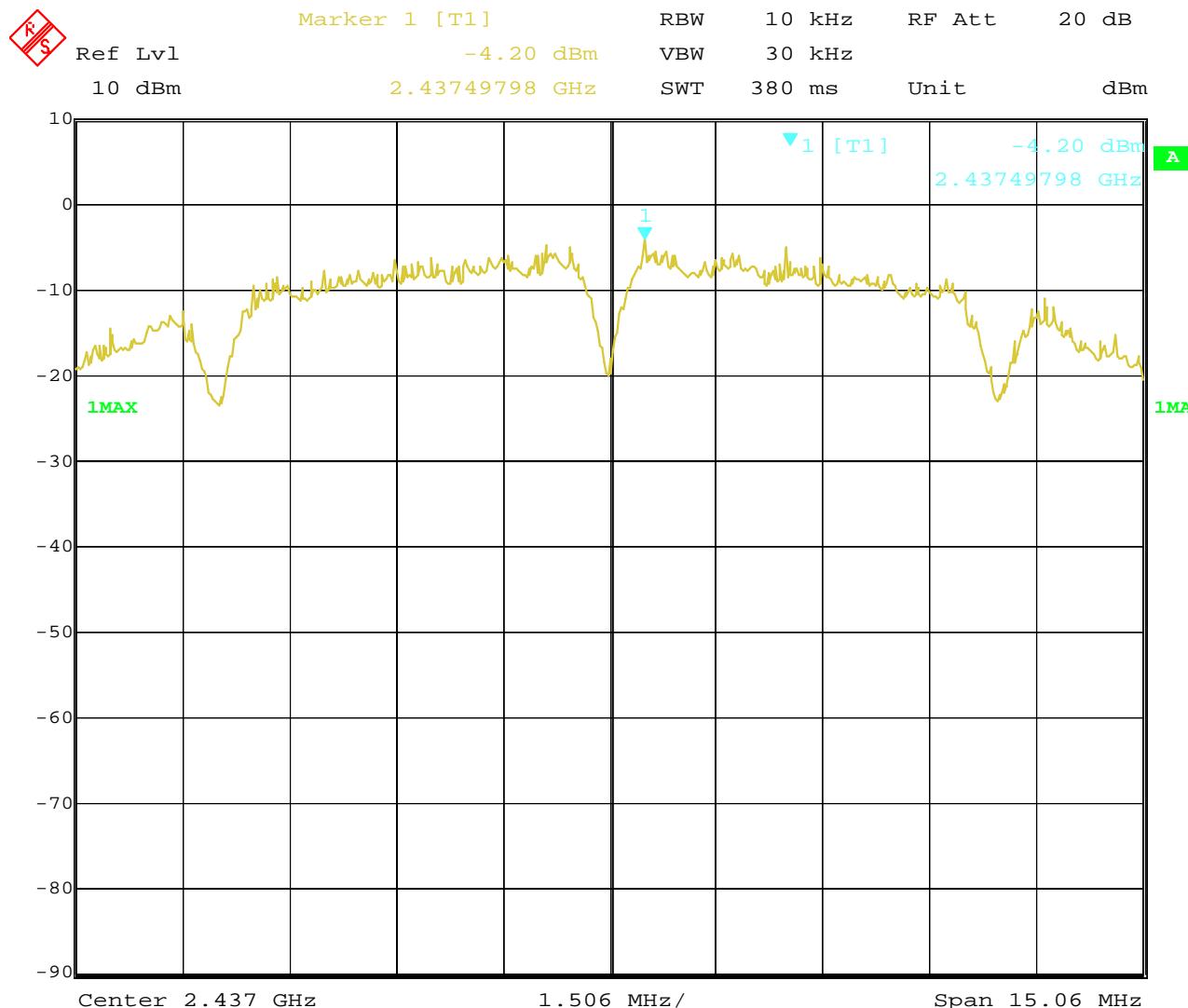
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5. 802.11b at 1Mbps of CH6



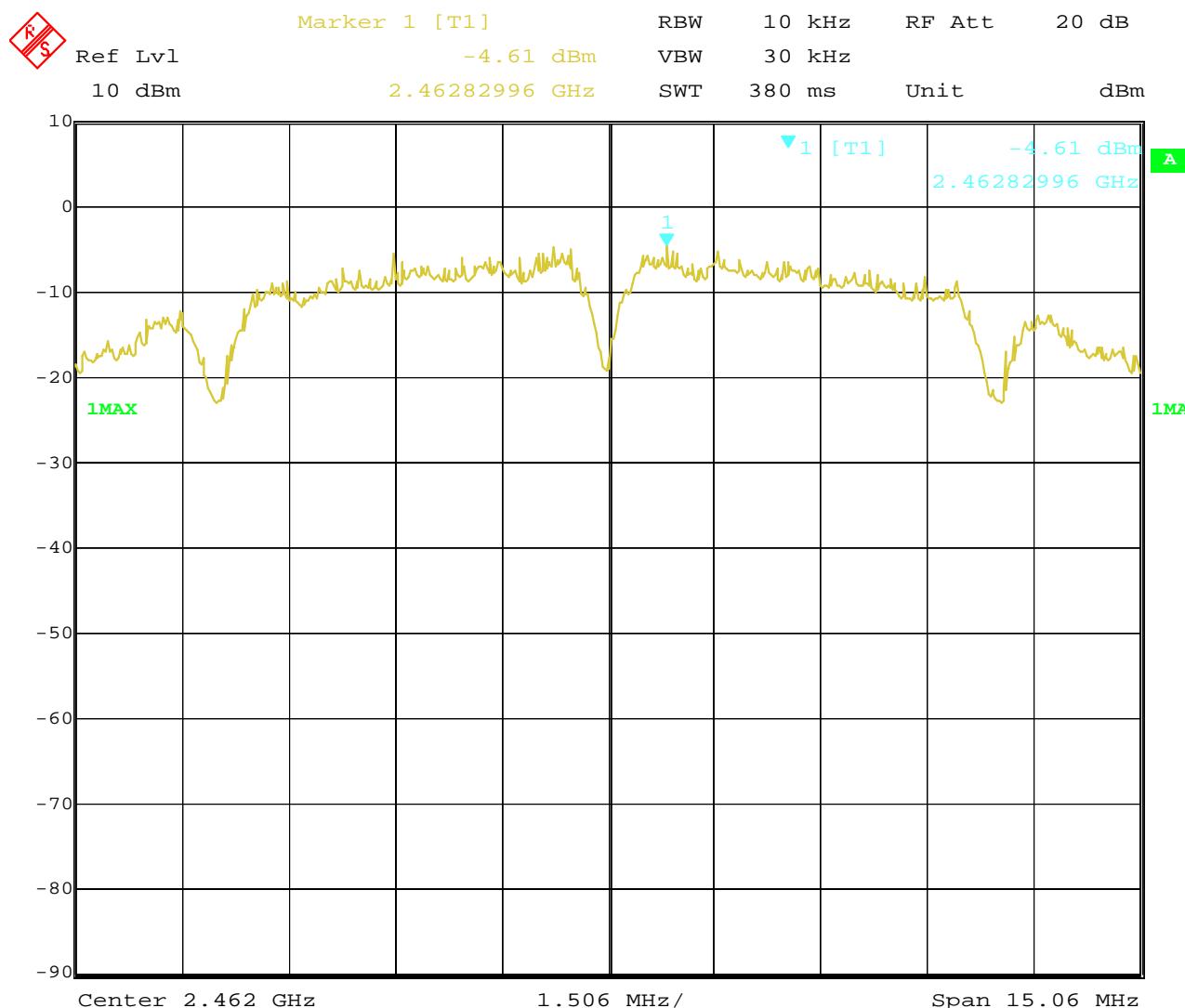
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6. 802.11b at 1Mbps of CH11



Date: 25.MAR.2019 15:15:19

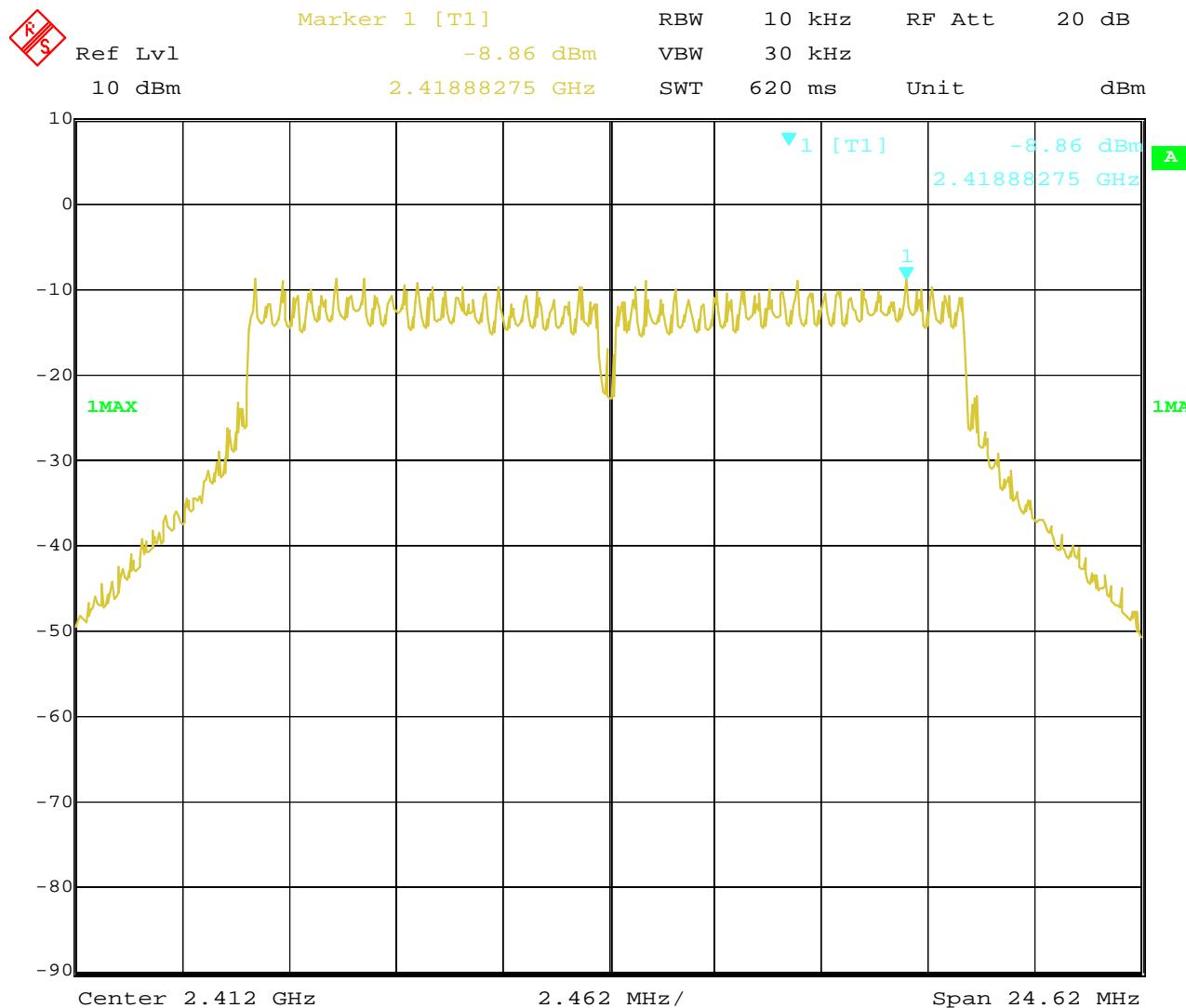
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7. 802.11g at 6Mbps of CH1



Date: 25.MAR.2019 15:17:44

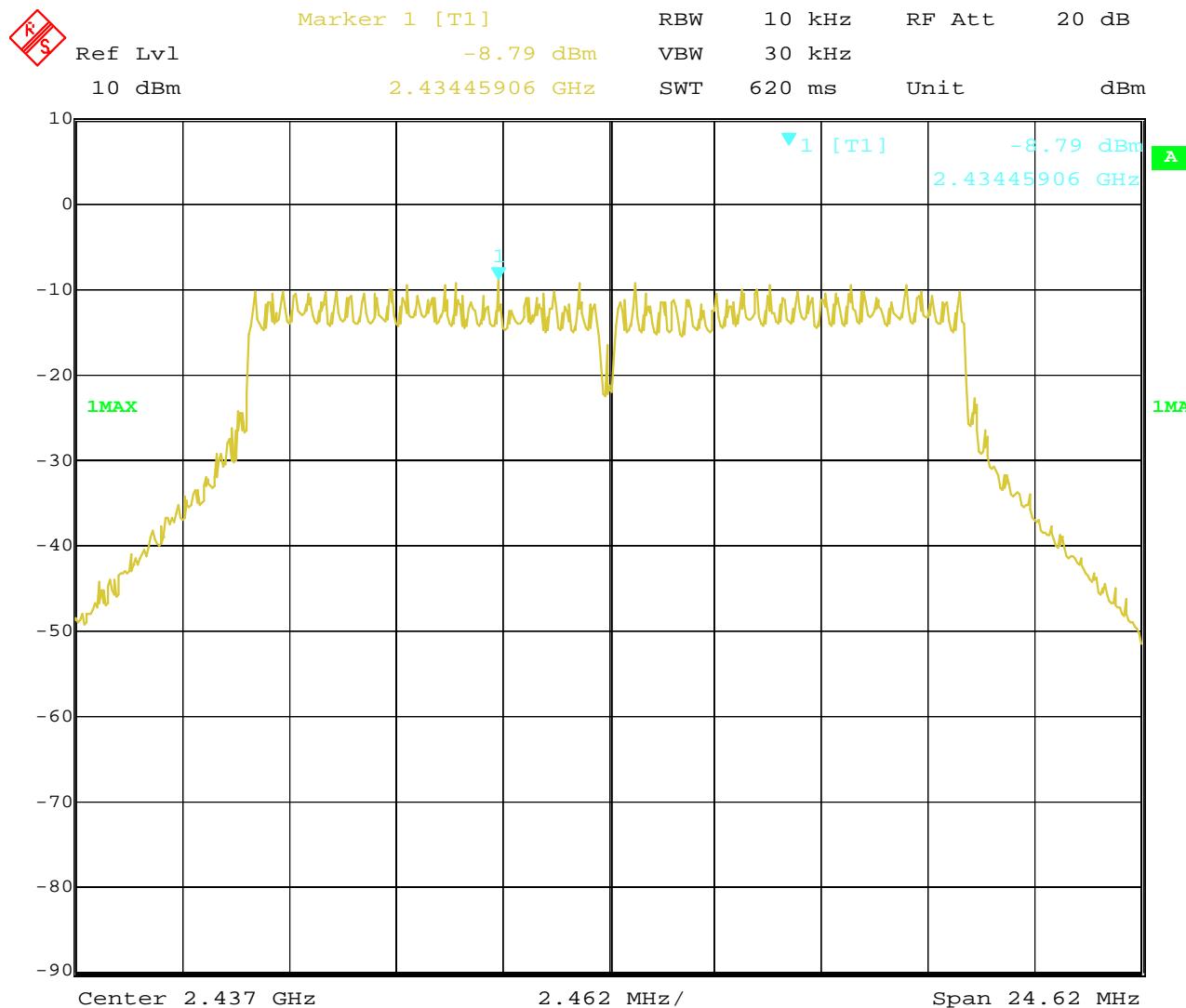
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8. 802.11g at 6Mbps of CH6



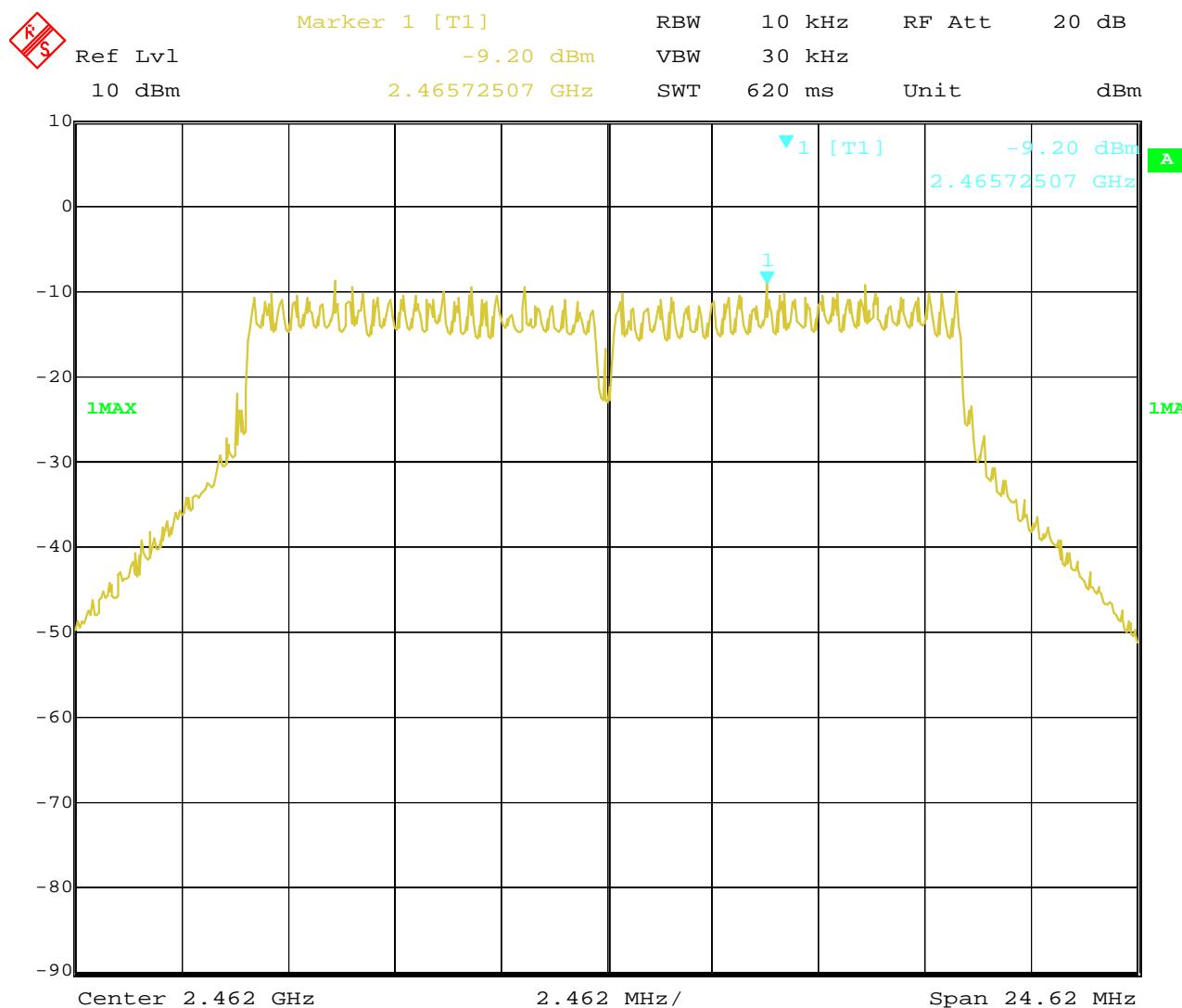
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9. 802.11g at 6Mbps of CH11



Date: 25.MAR.2019 15:19:42

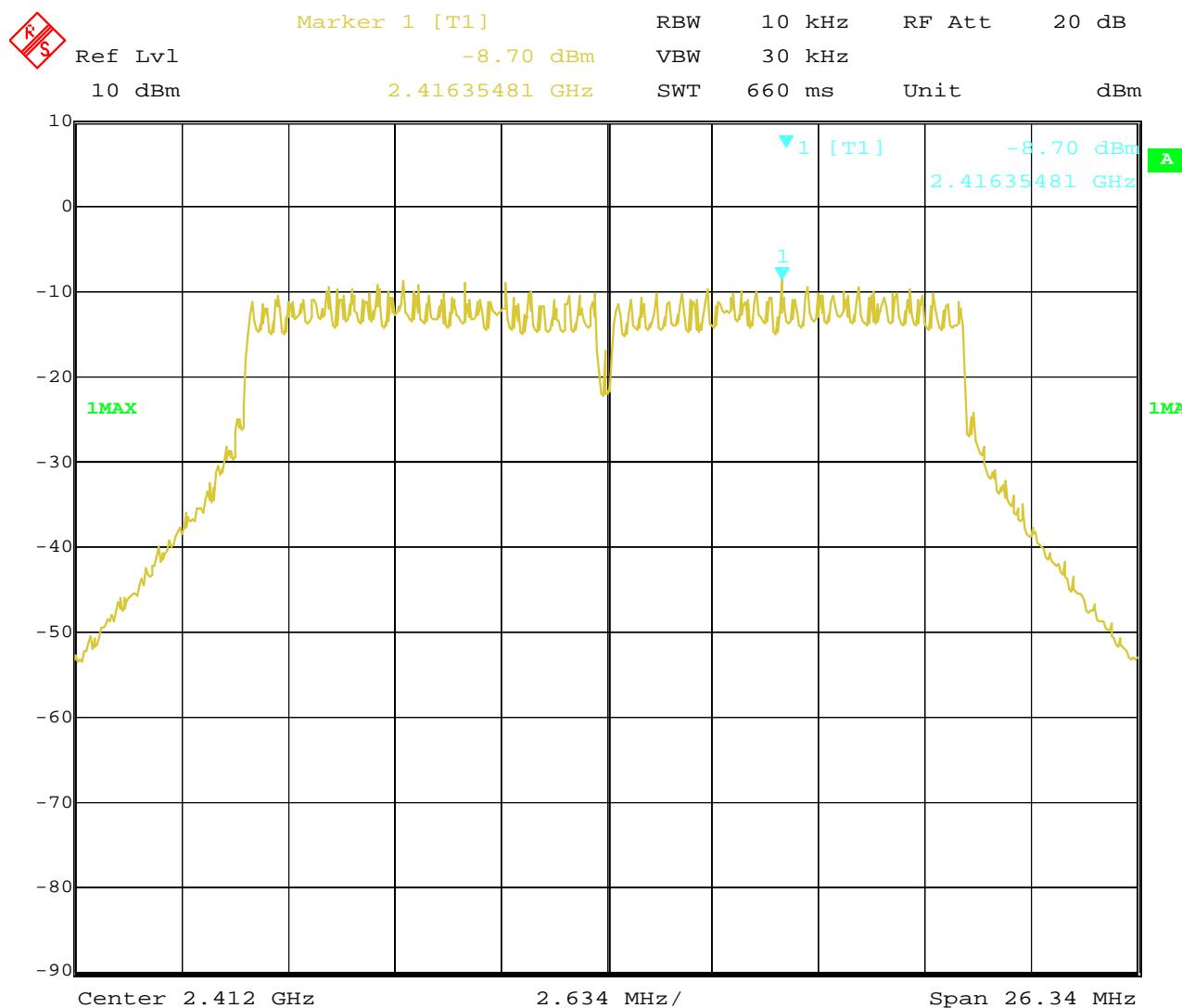
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10. 802.11n at HT20 of CH01



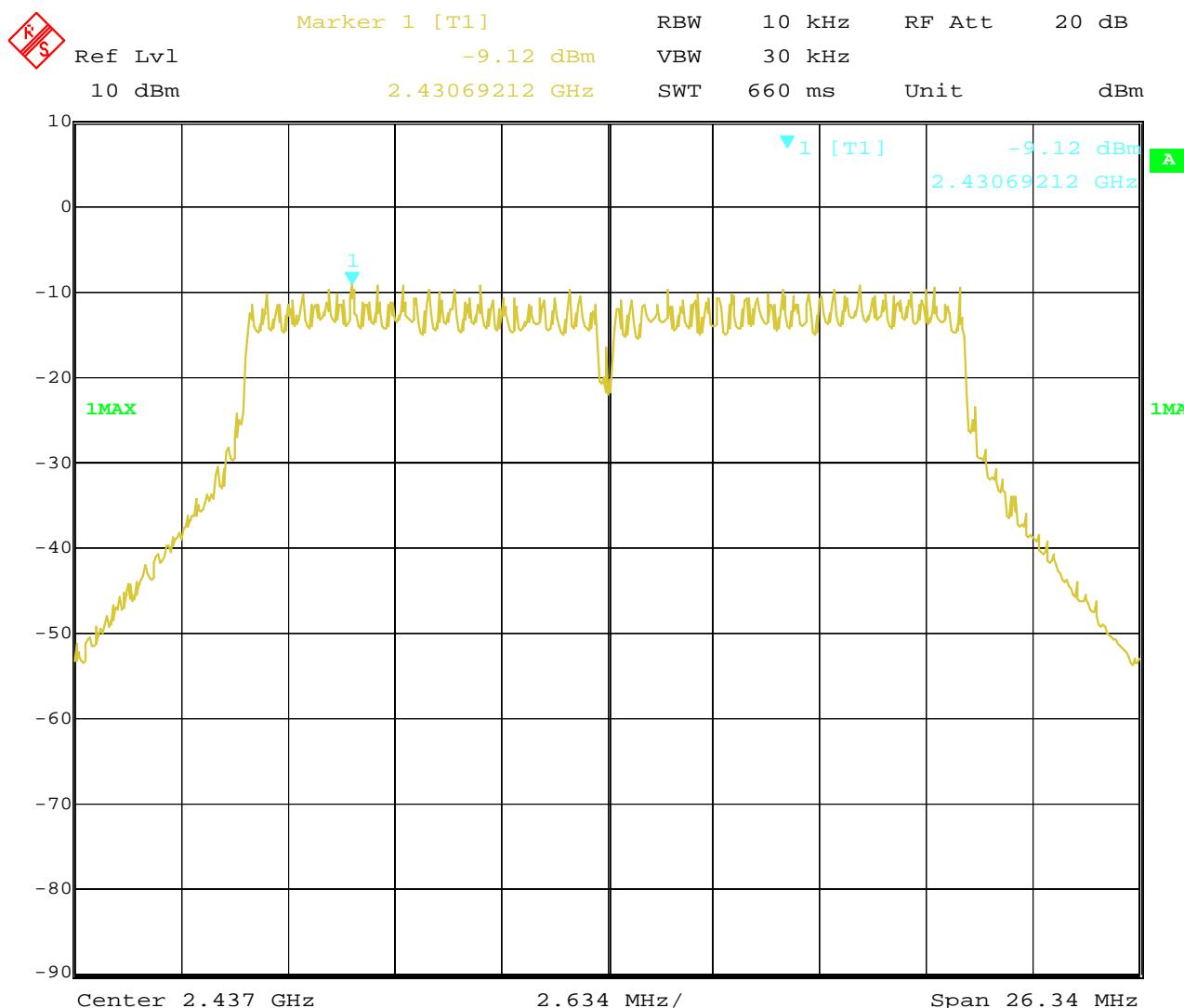
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11. 802.11n at HT20 of CH06



Date: 25.MAR.2019 15:23:45

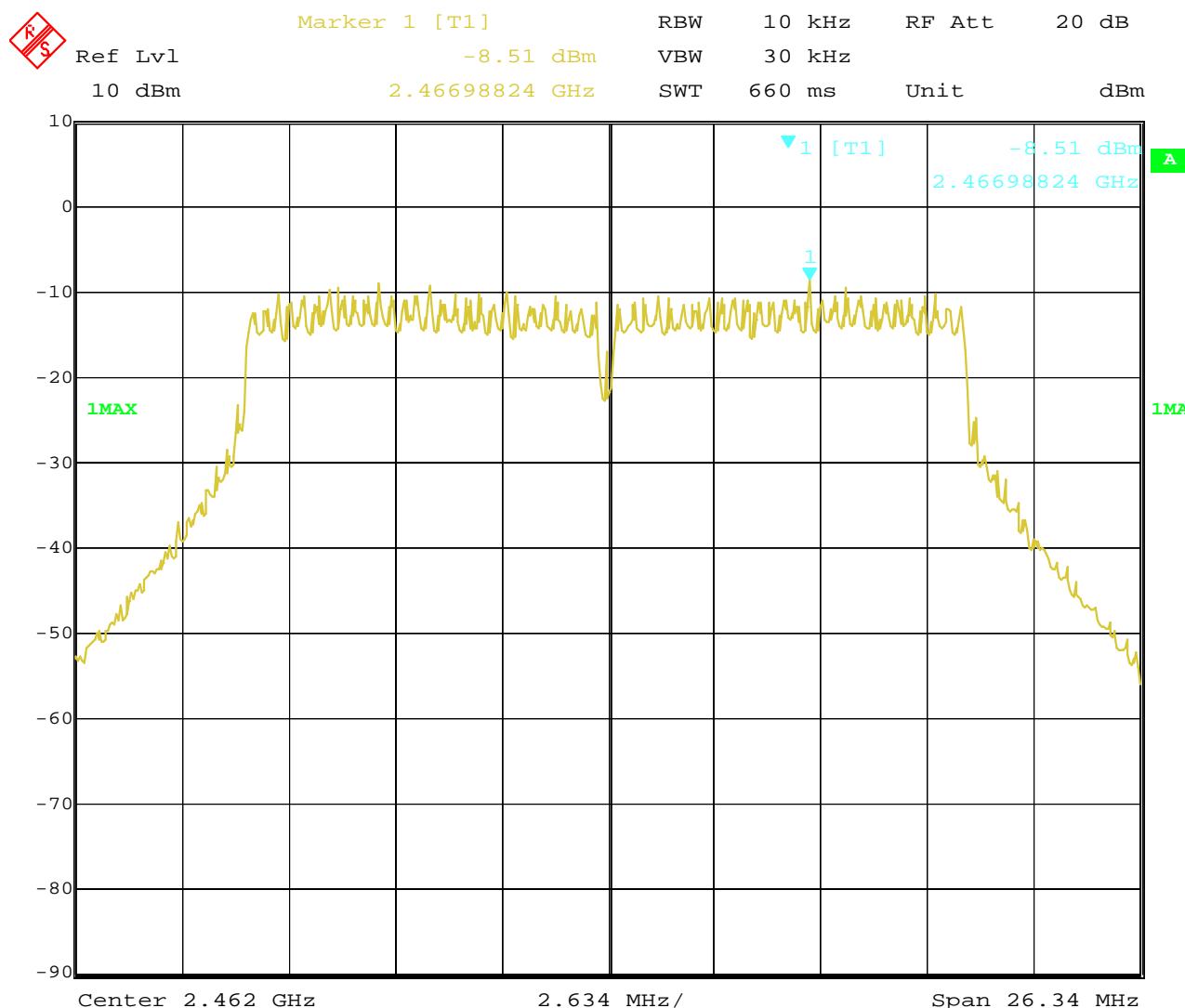
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12. 802.11n at HT20 of CH11



Date: 25.MAR.2019 15:21:23

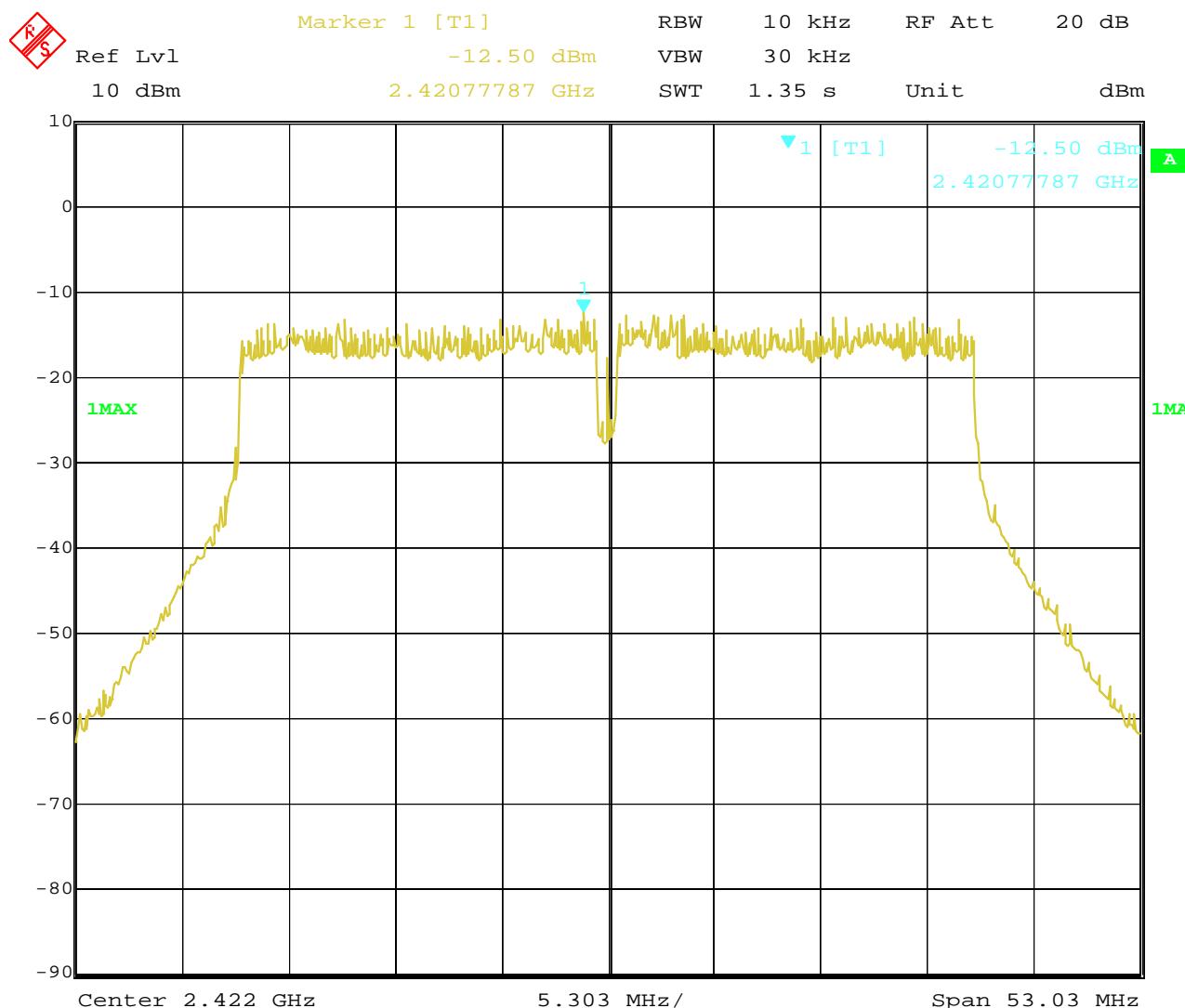
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13. 802.11n at HT40 of CH01



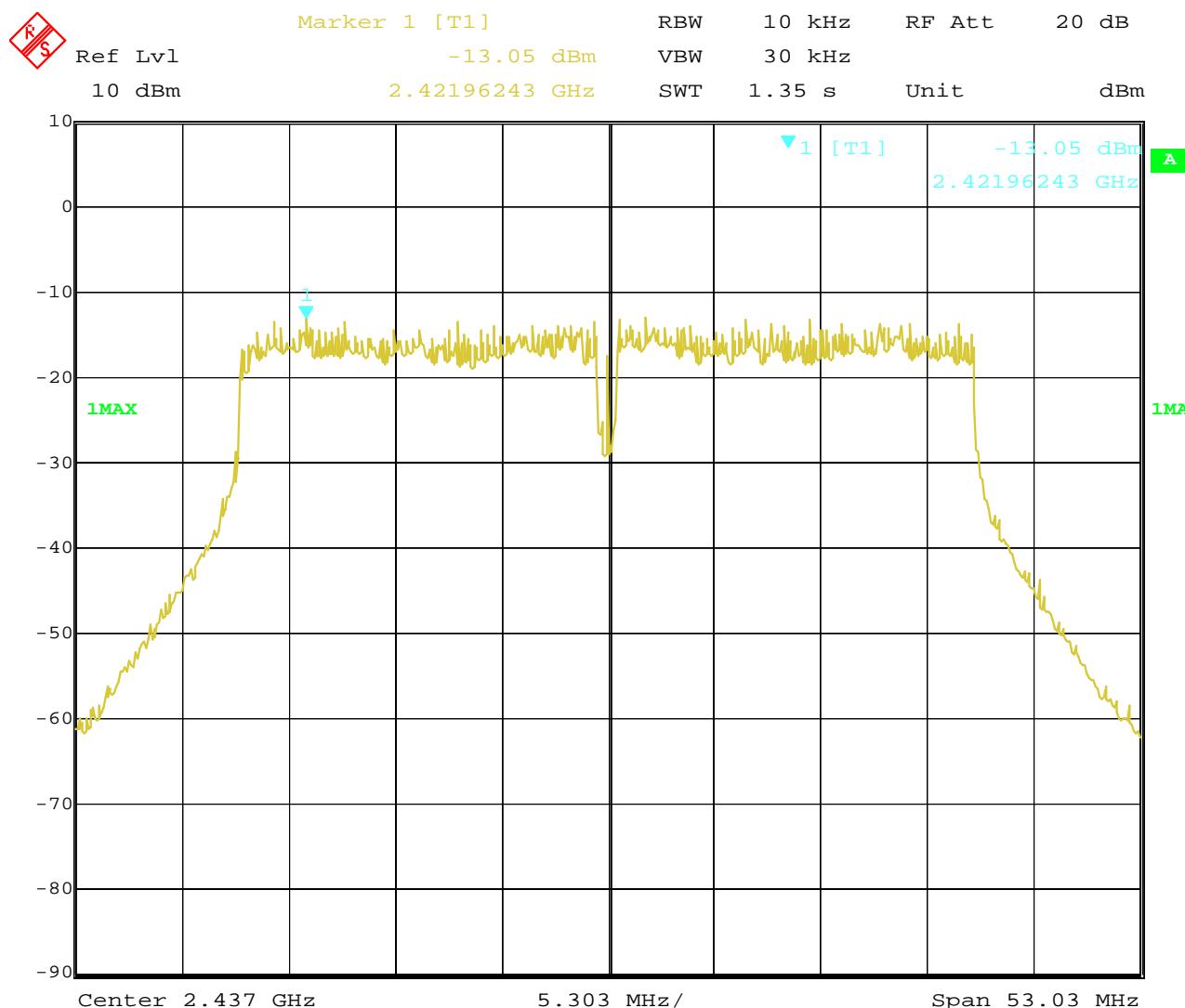
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14. 802.11n at HT40 of CH04



Date: 25.MAR.2019 15:27:44

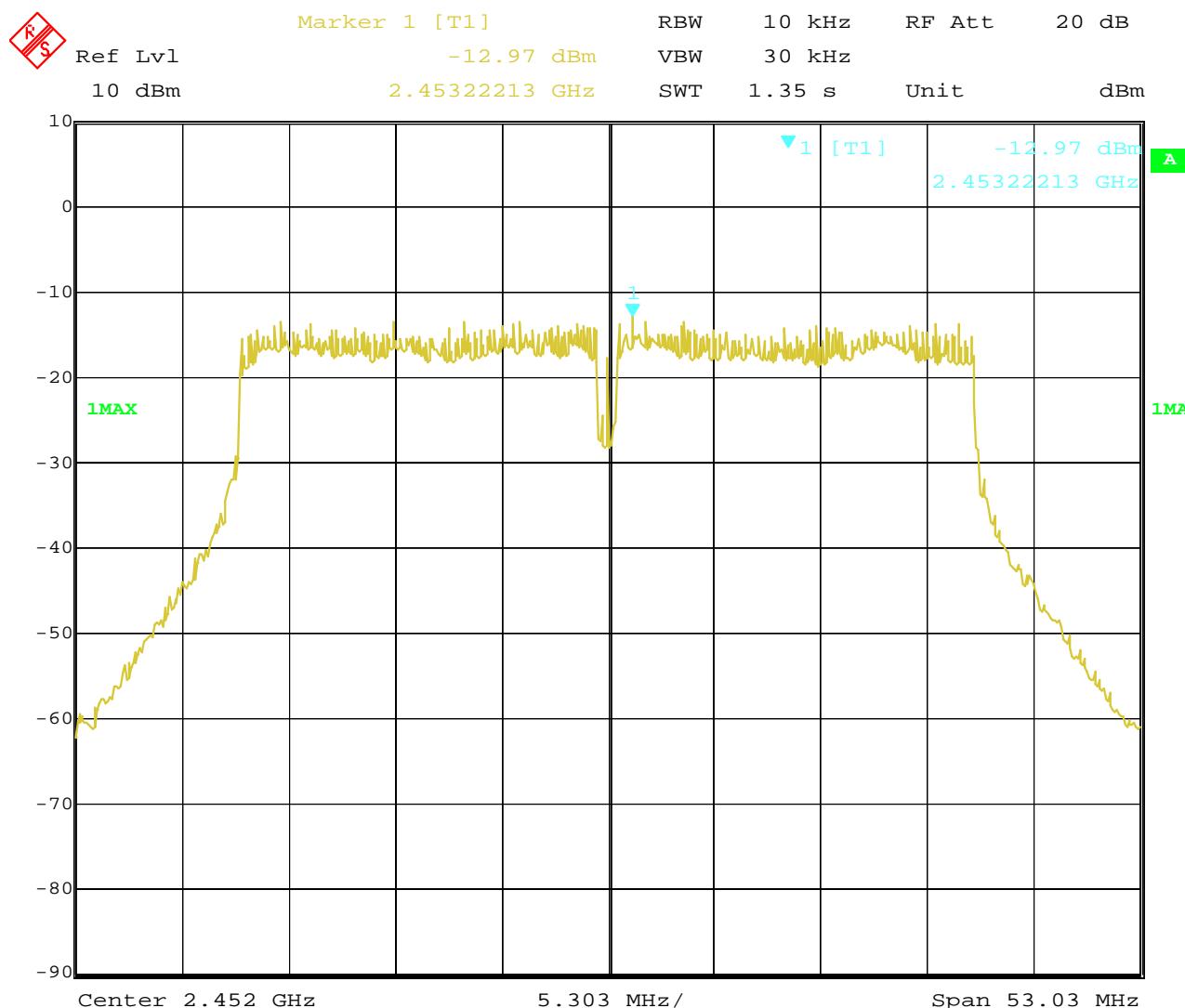
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15. 802.11n at HT40 of CH07



Date: 25.MAR.2019 15:28:54

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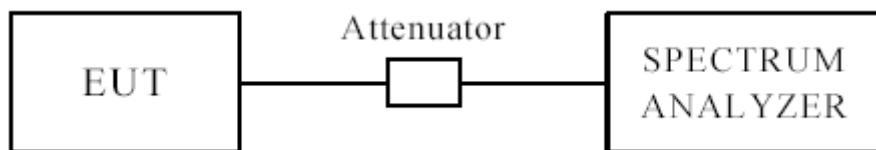
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10 Out of Band Measurement

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=3MHz and RMS detector ,test at MIMO mode)

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. for band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.
2. Two antennas were tested and only the worst cased was recorded in the test report. Ant 1 was the worst case.

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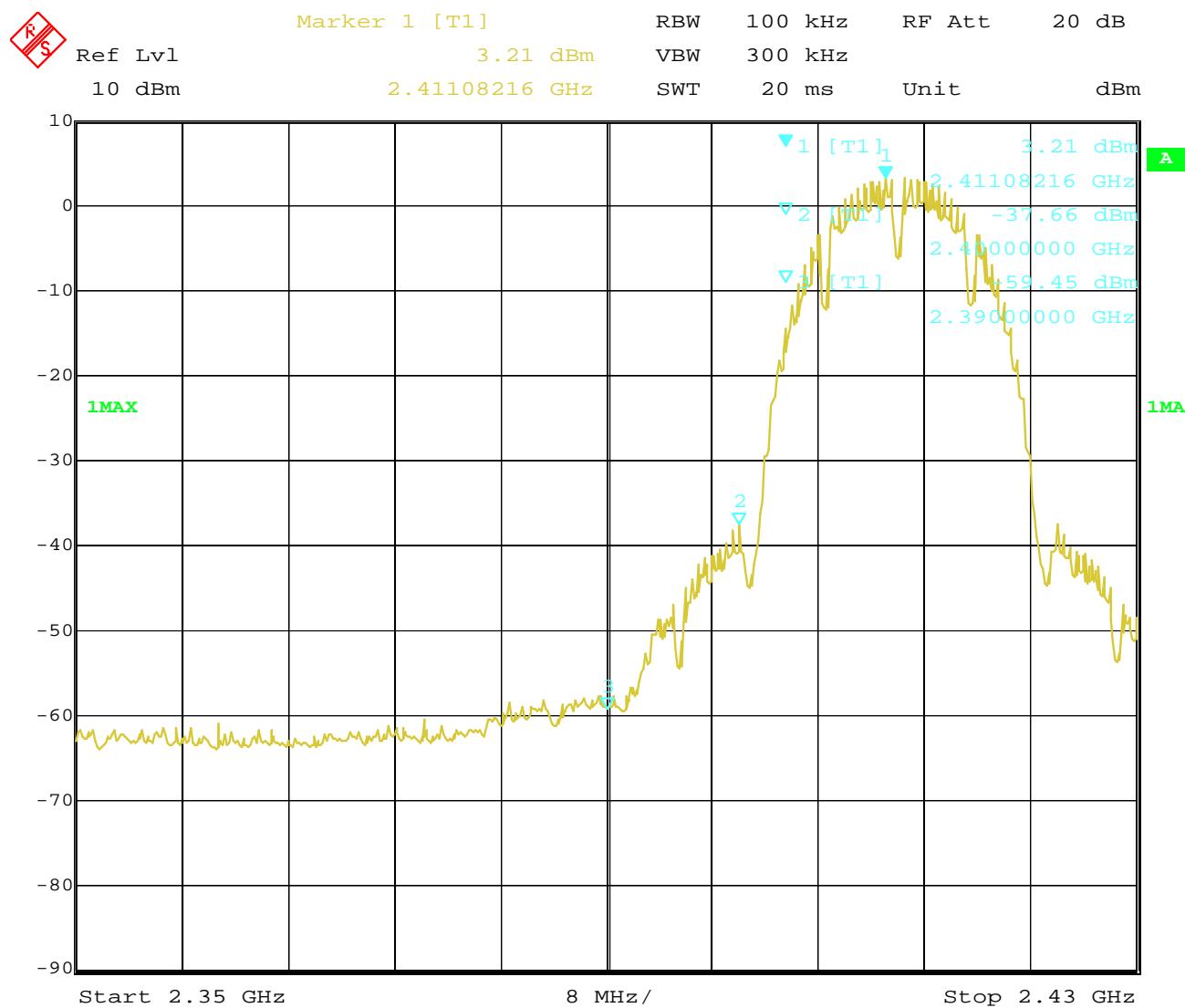
For 802.11b mode

CH01 at 1Mbps

10.4 Band-edge Measurement

EUT	Developer Board	Model	DB8
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 25.MAR.2019 15:32:32

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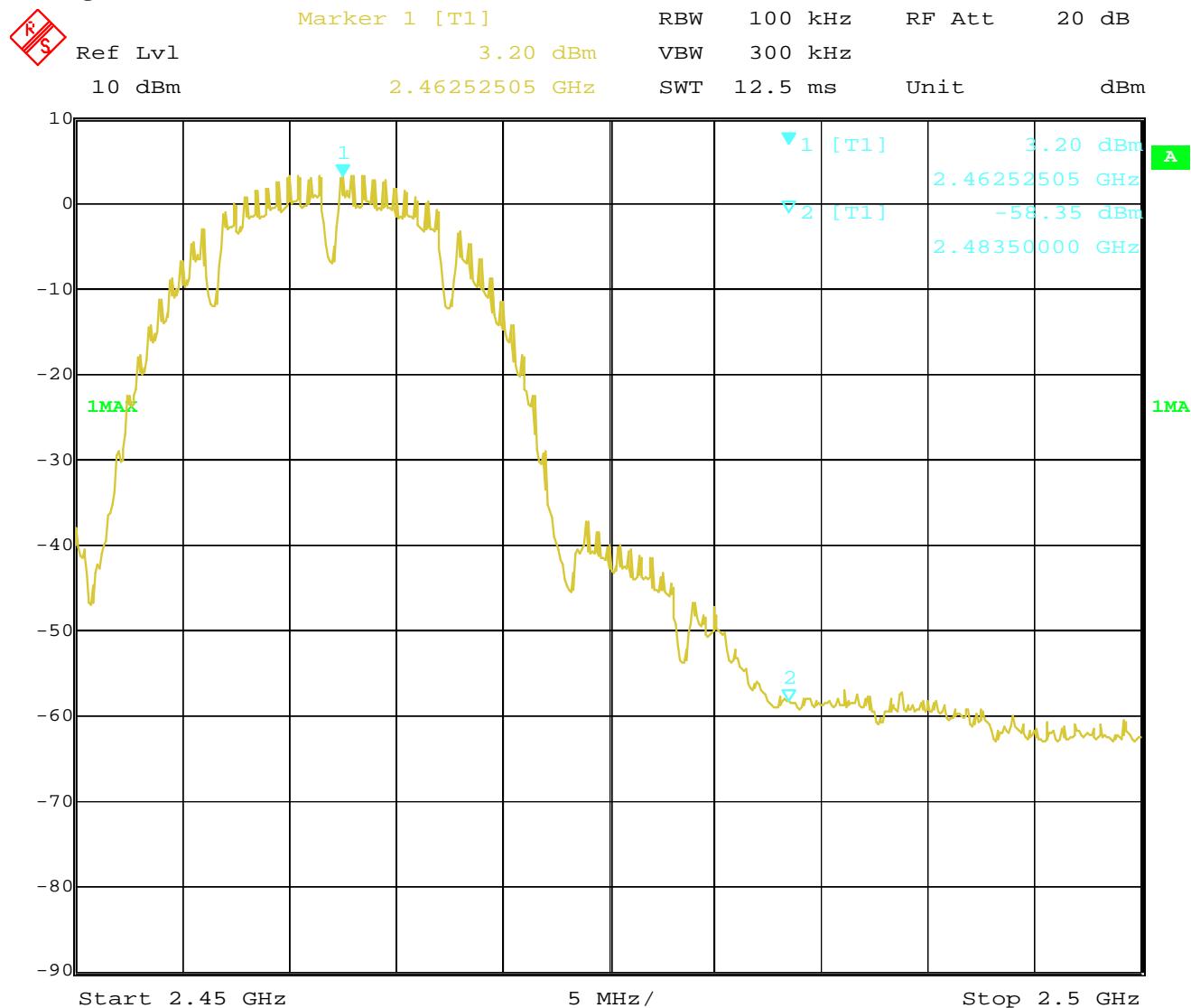


CH11 at 1Mbps

10.4 Band-edge Measurement

EUT	Developer Board	Model	DB8
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 25.MAR.2019 15:39:23

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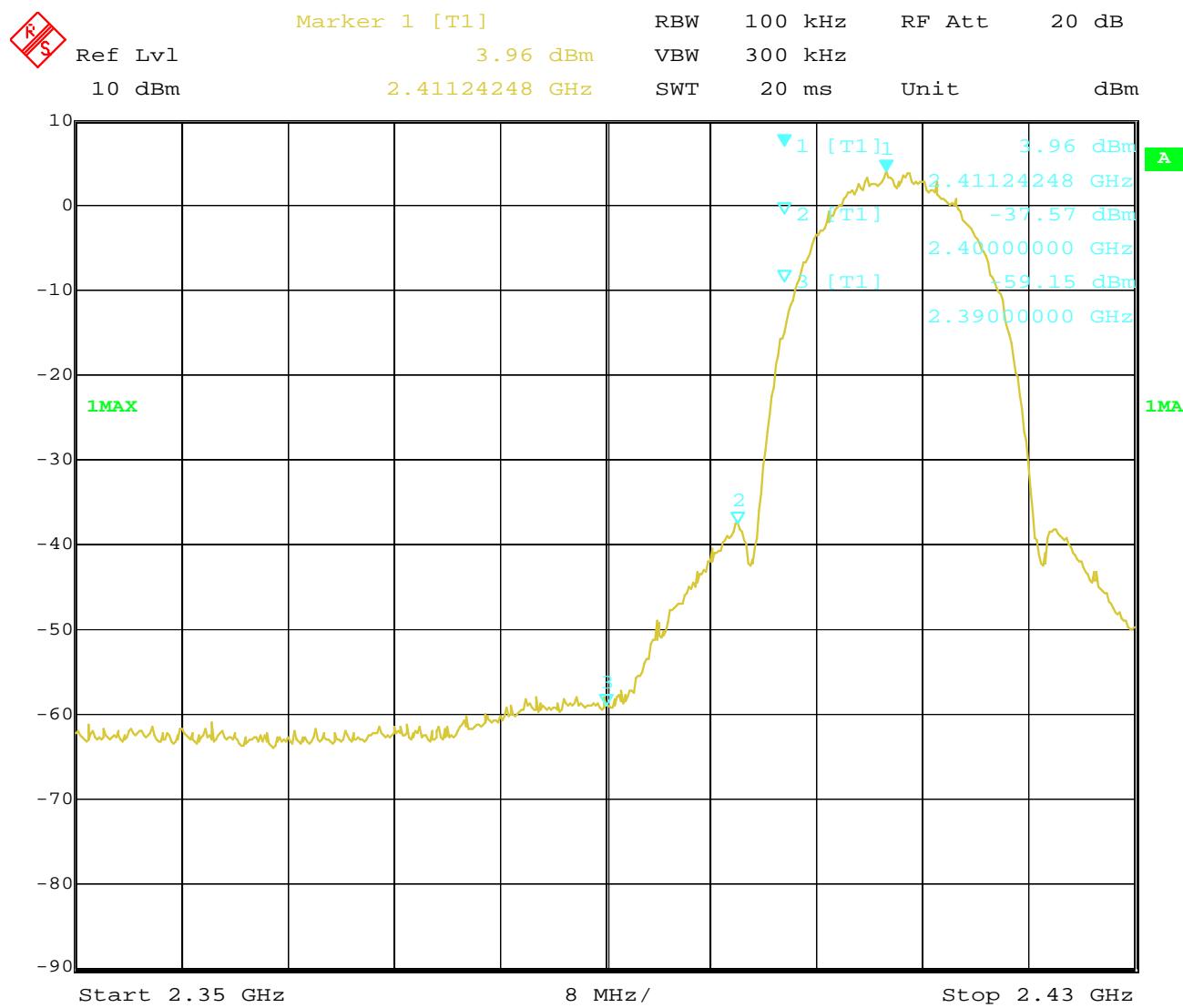
For 802.11b mode

CH01 at 11Mbps

10.4 Band-edge Measurement

EUT	Developer Board	Model	DB8
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 25.MAR.2019 15:35:14

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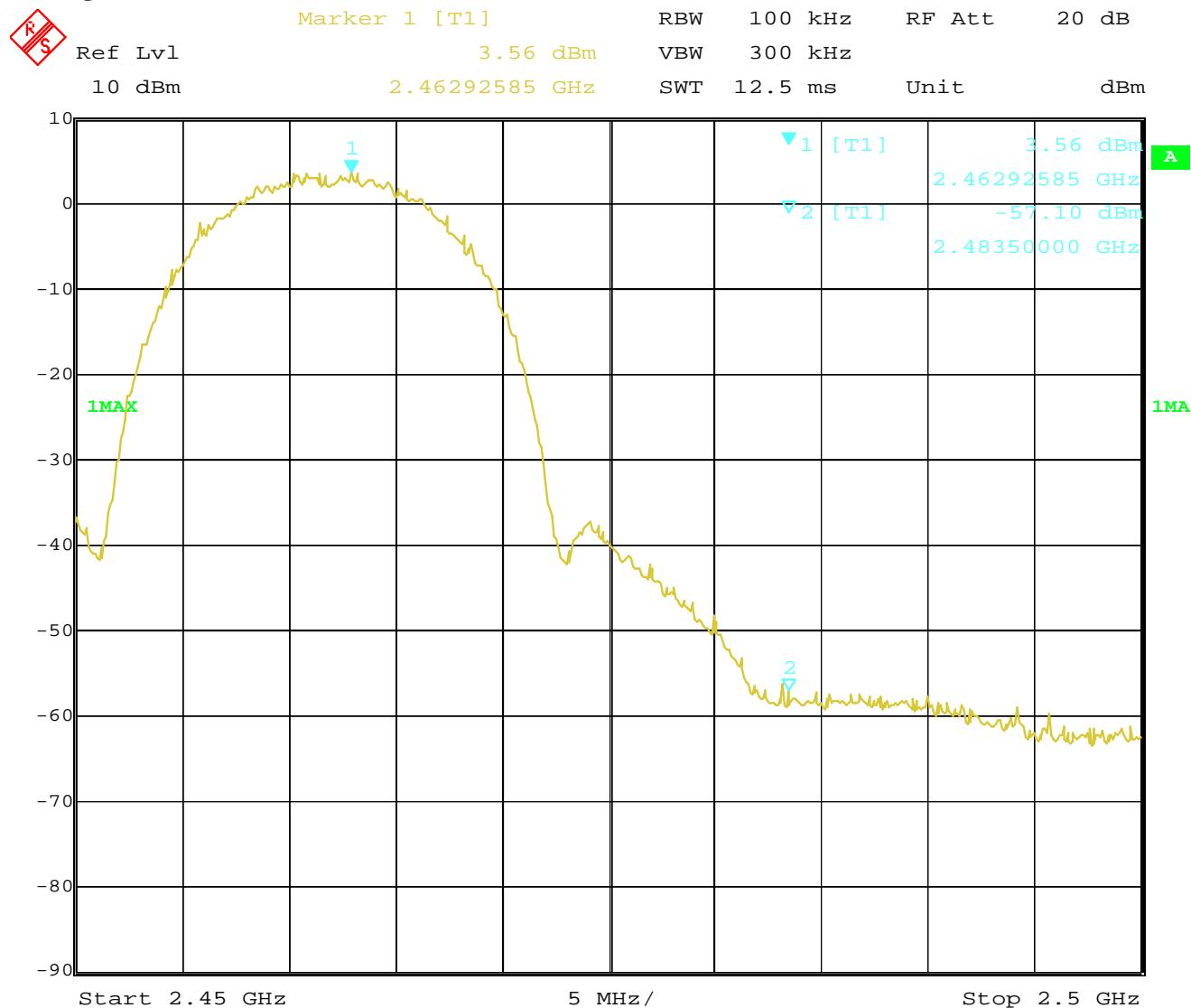


CH11 at 11Mbps

10.4 Band-edge Measurement

EUT	Developer Board	Model	DB8
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 25.MAR.2019 15:36:16

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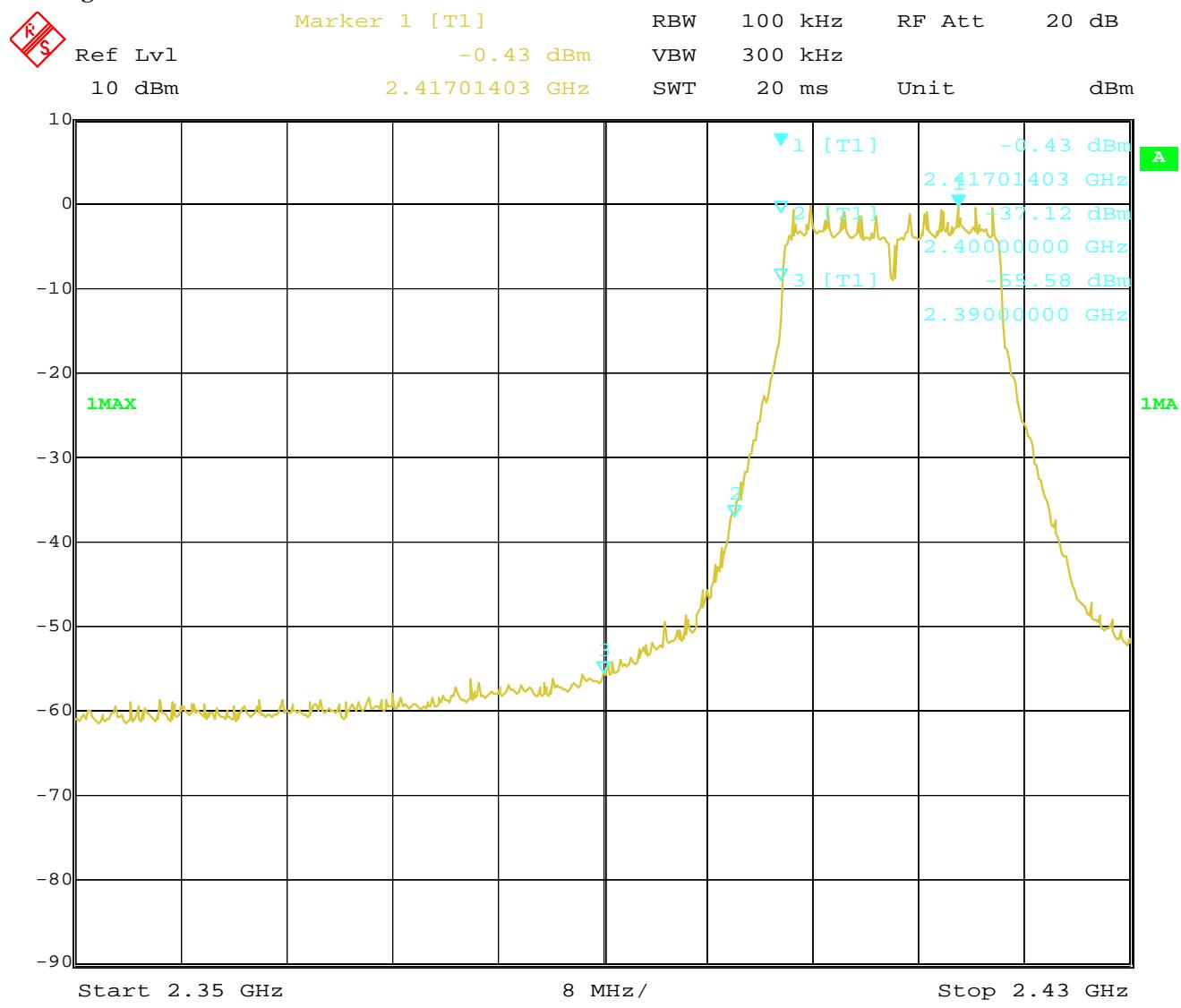
For 802.11g mode

CH01 at 6Mbps

10.4 Band-edge Measurement

EUT	Developer Board	Model	DB8
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 25.MAR.2019 15:33:36

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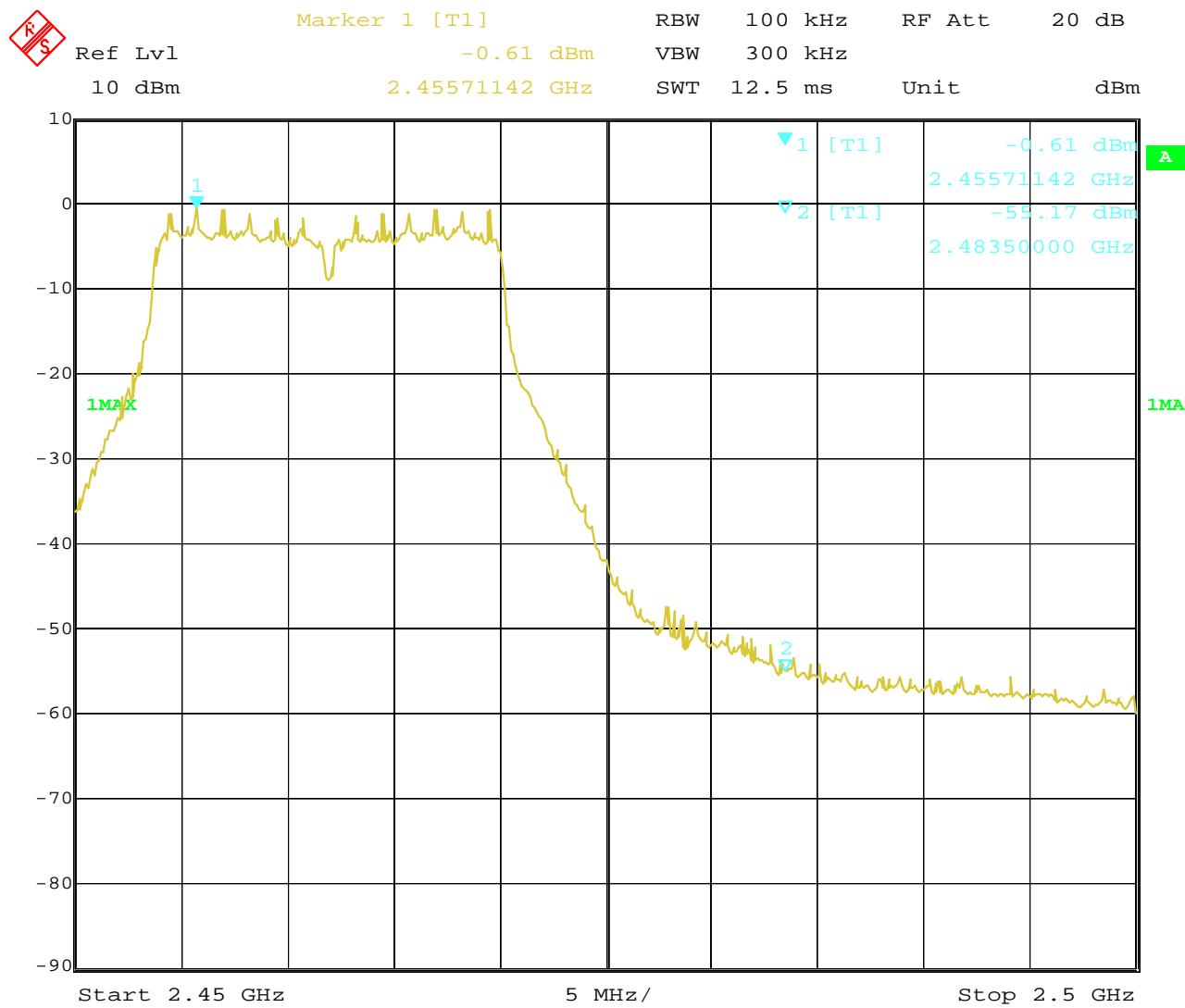


CH11 at 6Mbps

10.4 Band-edge Measurement

EUT	Developer Board	Model	DB8
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 25.MAR.2019 15:38:19

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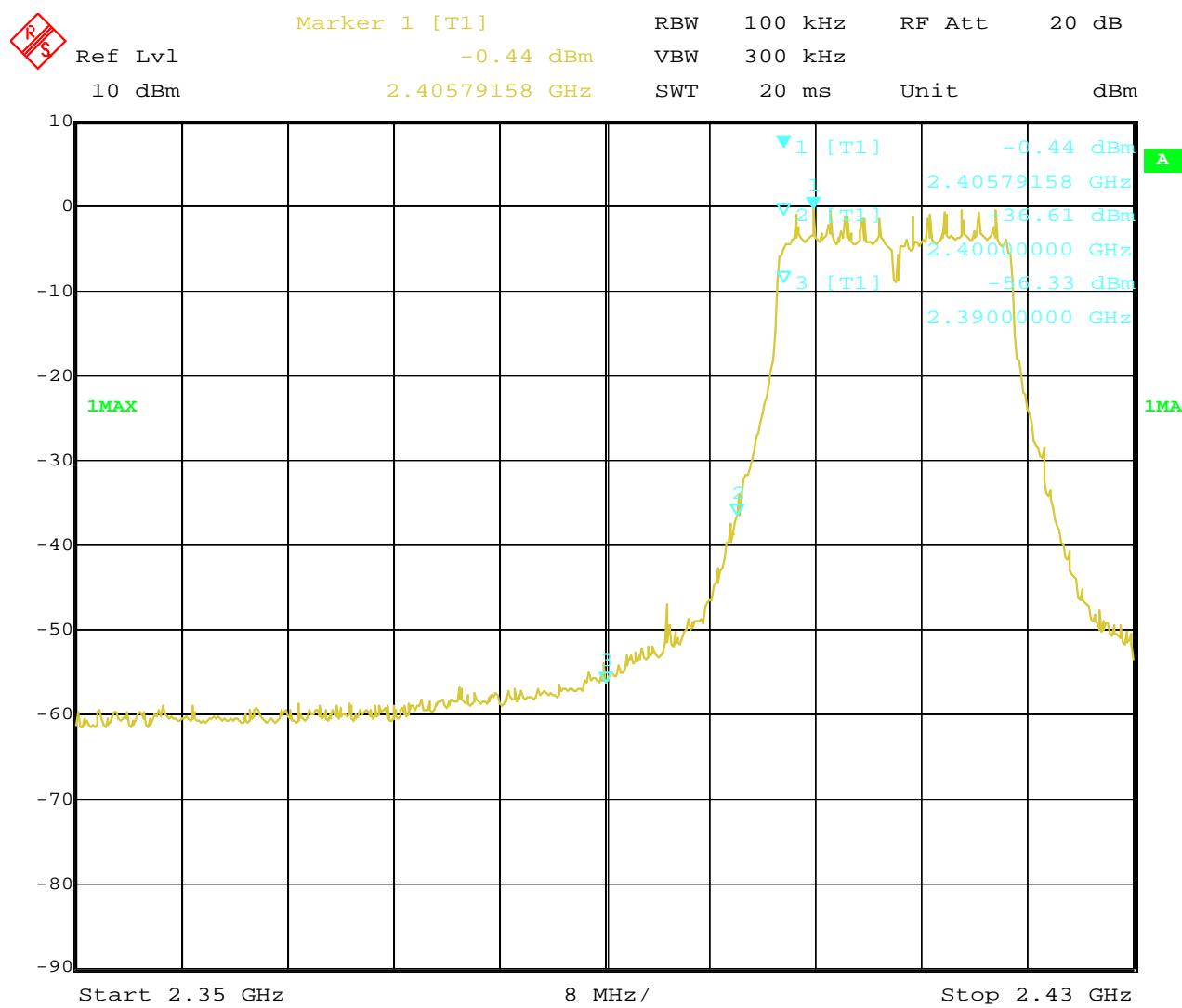
For 802.11n (HT20) mode

CH01 at mcs0

10.4 Band-edge Measurement

EUT	Developer Board	Model	DB8
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 25.MAR.2019 15:30:59

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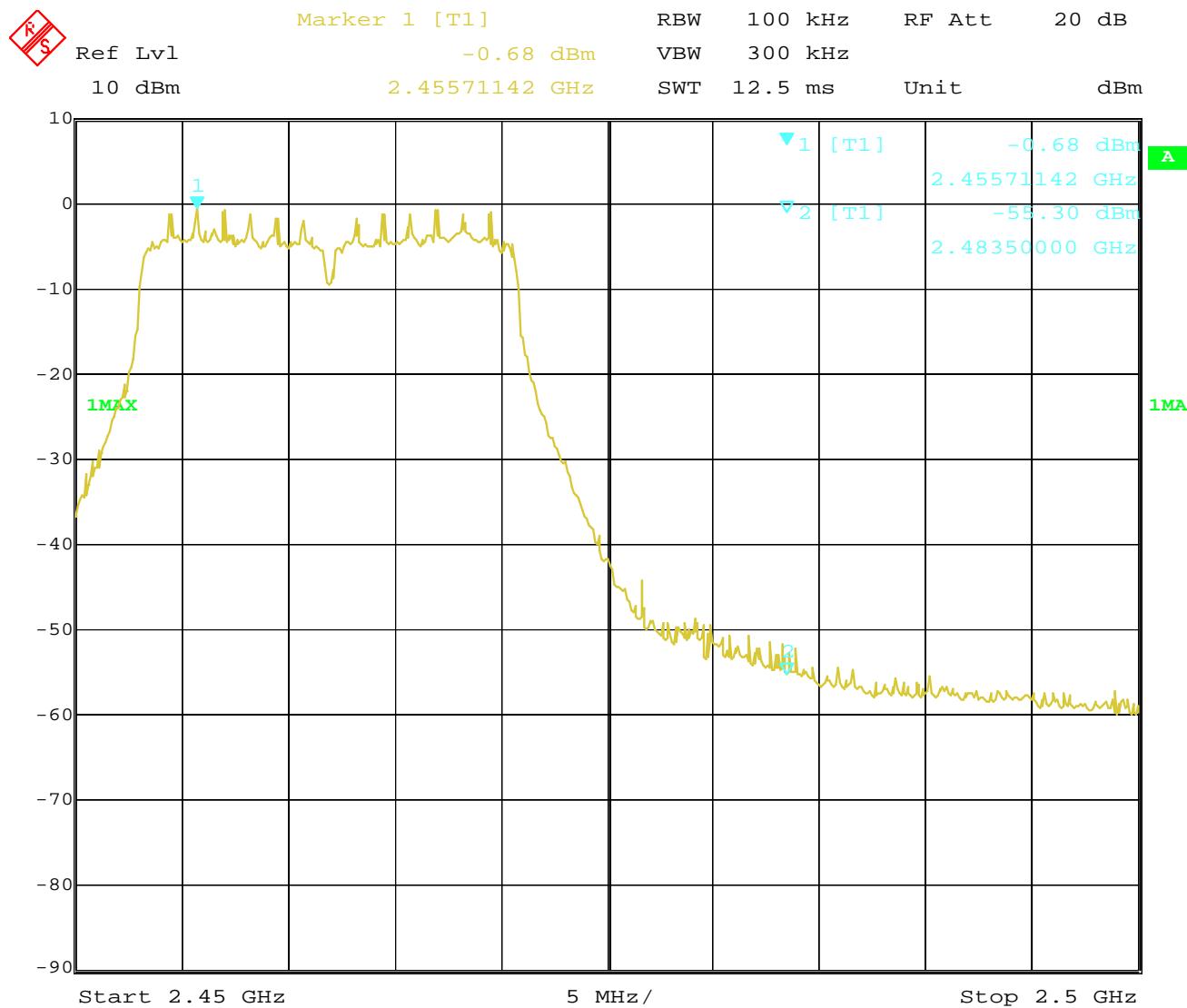


CH11 at mcs0

10.4 Band-edge Measurement

EUT	Developer Board	Model	DB8
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 25.MAR.2019 15:40:21

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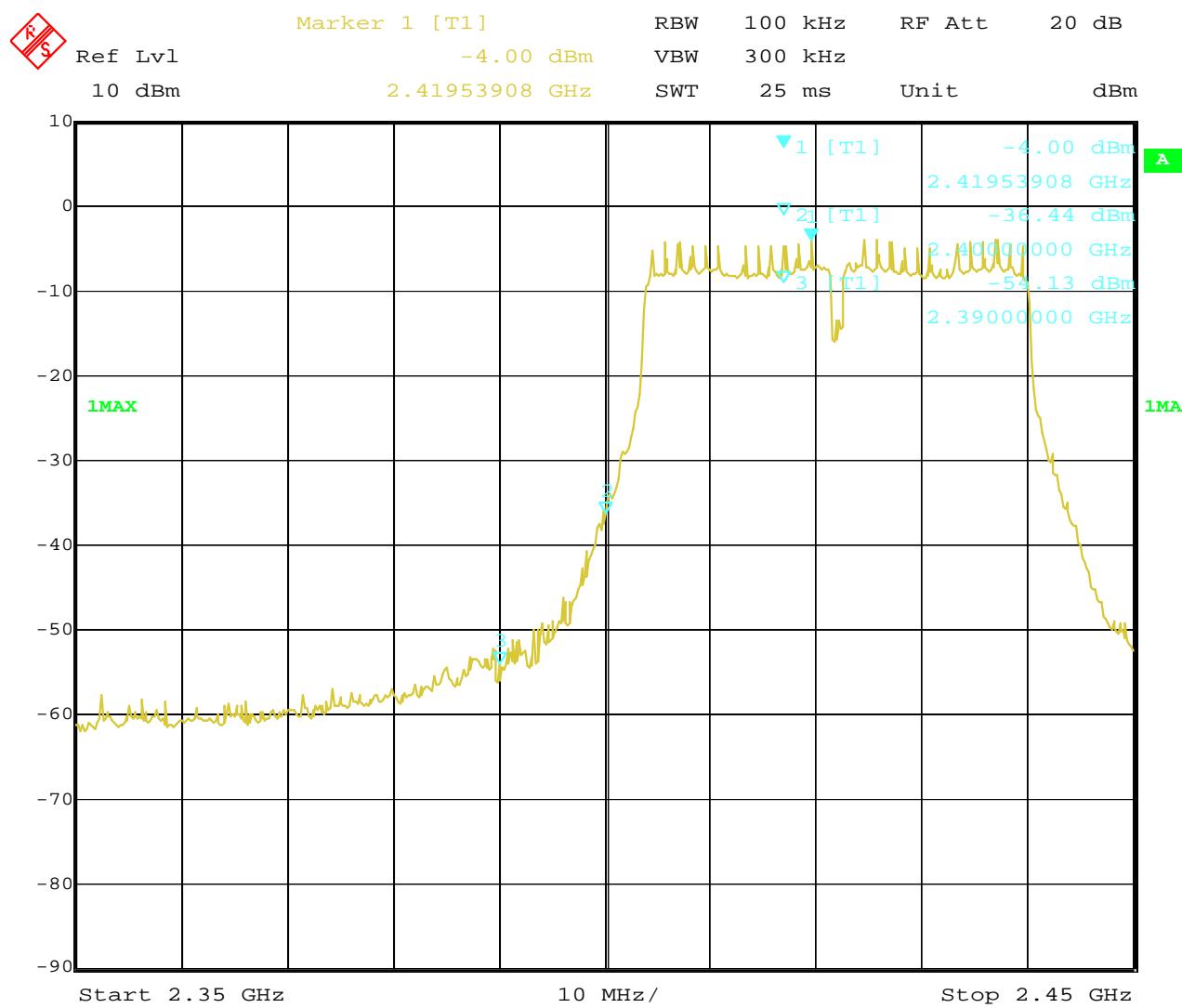
For 802.11n (HT40) mode

CH03 at msc0

10.4 Band-edge and Restricted band Measurement

EUT	Developer Board	Model	DB8
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 25.MAR.2019 15:30:07

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

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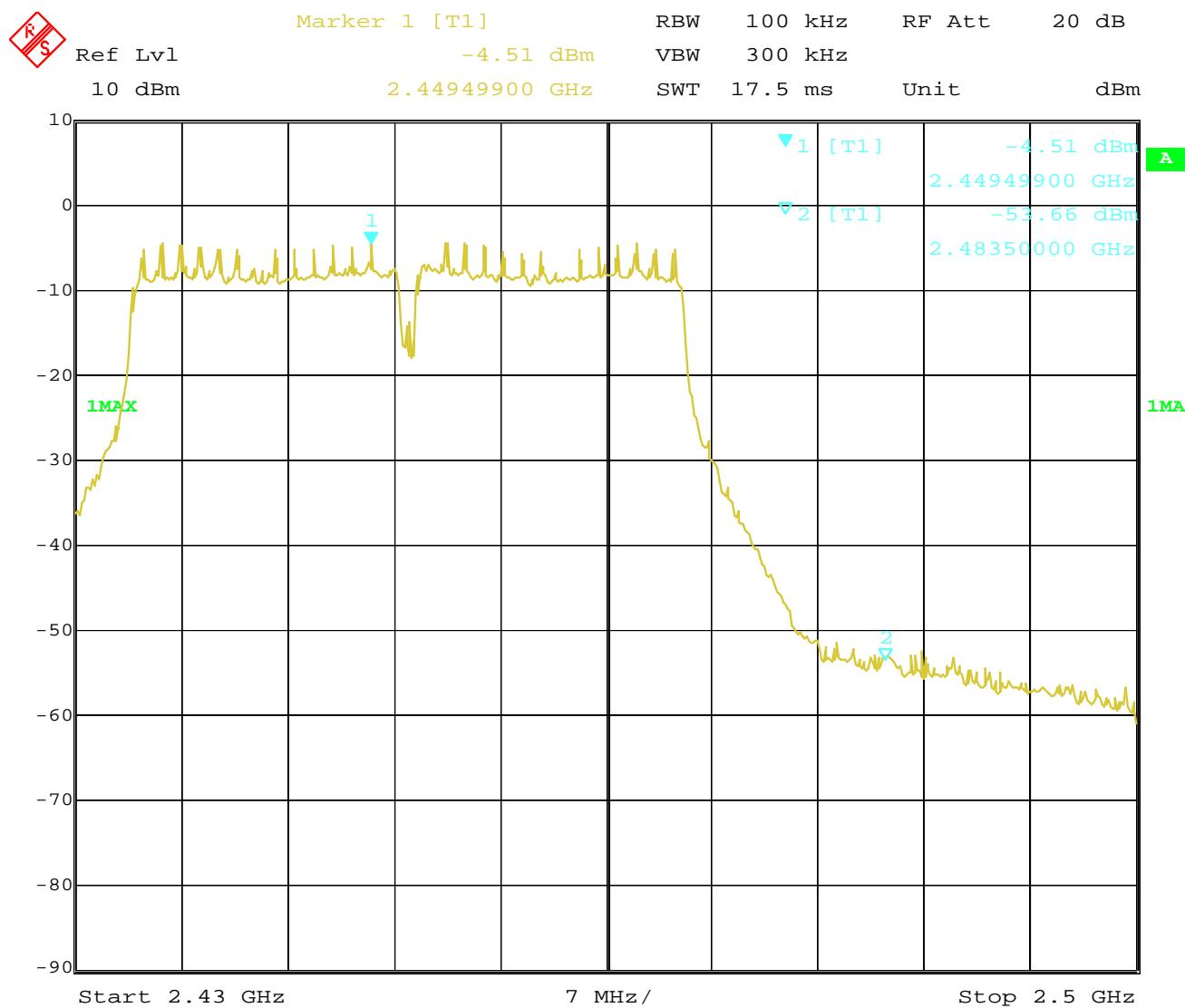


CH09 at msc0

10.4 Band-edge and Restricted band Measurement

EUT	Developer Board	Model	DB8
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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

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10.5 Restricted band Measurement

Test mode: MIMO

EUT	Developer Board	Model	DB8
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 (dB μ V/m)	44.69	Limit
	AV (dB μ V/m)	--	
802.11b mode, Low Channel, Vertical			
2390	PK (dB μ V/m)	46.83	Limit
	AV (dB μ V/m)	--	

EUT	Developer Board	Model	DB8
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 (dB μ V/m)	48.33	Limit
	AV (dB μ V/m)	--	
802.11b mode, High Channel, Vertical			
2483.5	PK (dB μ V/m)	44.29	Limit
	AV (dB μ V/m)	--	

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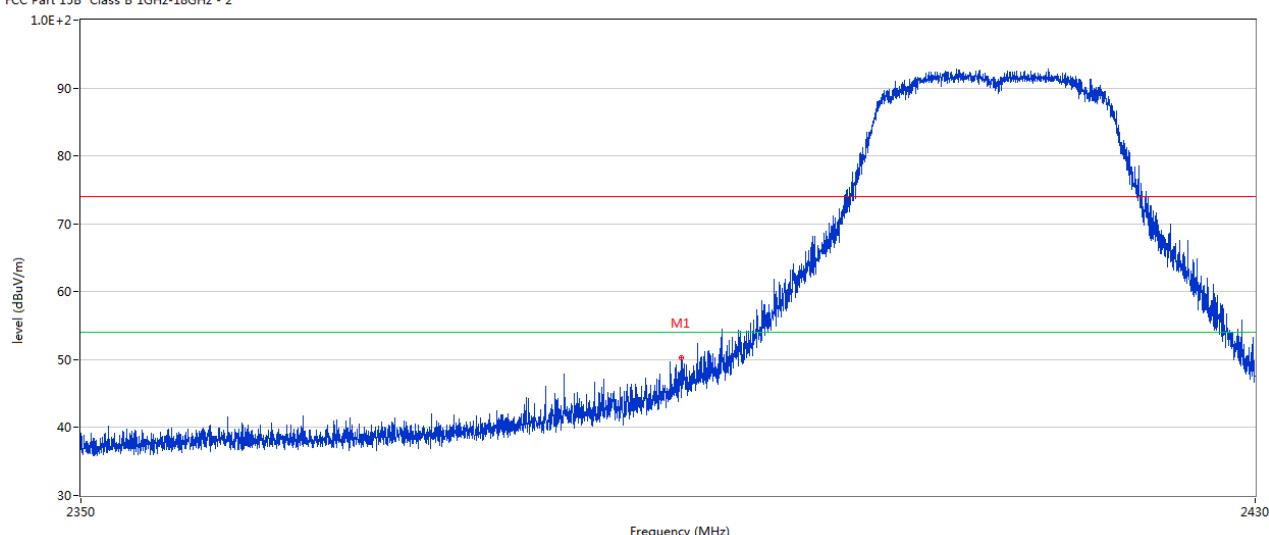
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EUT	Developer Board		Model	DB8
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, Low Channel, Horizontal				
2390	PK (dB μ V/m)	47.30	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11g mode, Low Channel, Vertical				
2390	PK (dB μ V/m)	50.28	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)

Test Plots

FCC Part 15B Class B 1GHz-18GHz - 2



No.	Frequency (MHz)	Results (dB μ V/m)	Factor (dB)	Limit (dB μ V/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2390.000	50.28	-3.53	74.0	-23.72	Peak	194.00	100	V	Pass

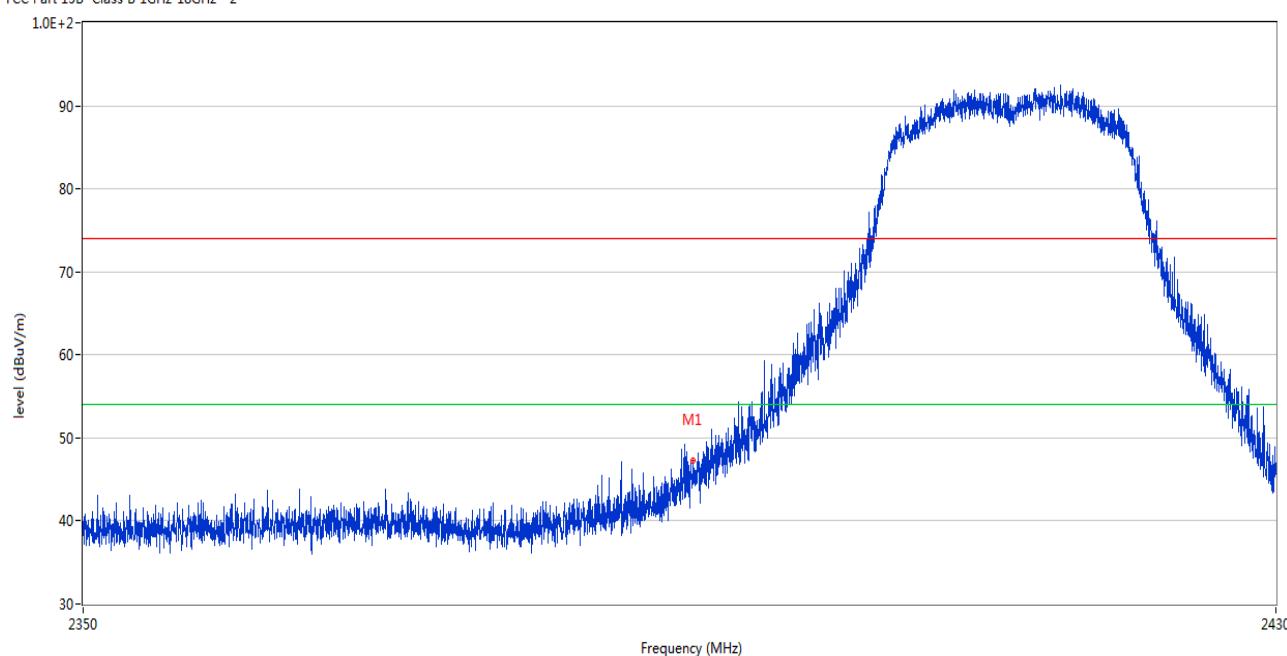
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FCC Part 15B Class B 1GHz-18GHz - 2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2390.000	47.30	-3.53	74.0	-26.70	Peak	314.00	100	H	Pass

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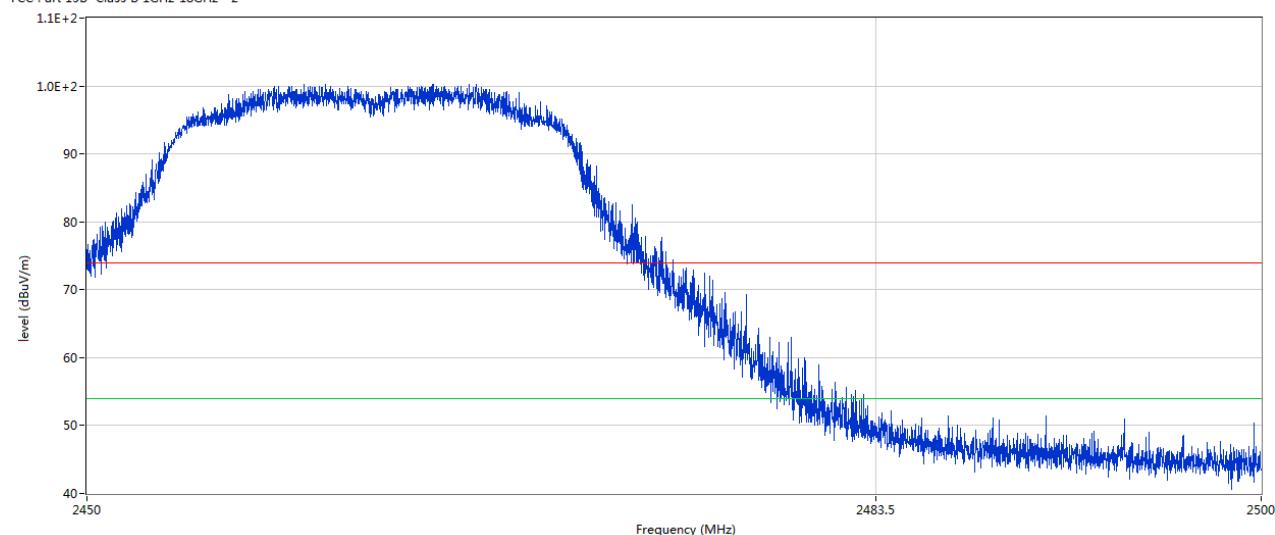
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EUT	Developer Board		Model	DB8
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, High Channel, Horizontal				
2483.5	PK (dB μ V/m)	51.16	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11g mode, High Channel, Vertical				
2483.5	PK (dB μ V/m)	47.16	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)

FCC Part 15B Class B 1GHz-18GHz - 2



No.	Frequency (MHz)	Results (dB μ V/m)	Factor (dB)	Limit (dB μ V/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2483.5	51.16	-3.57	74.0	-22.84	Peak	76.00	100	H	Pass

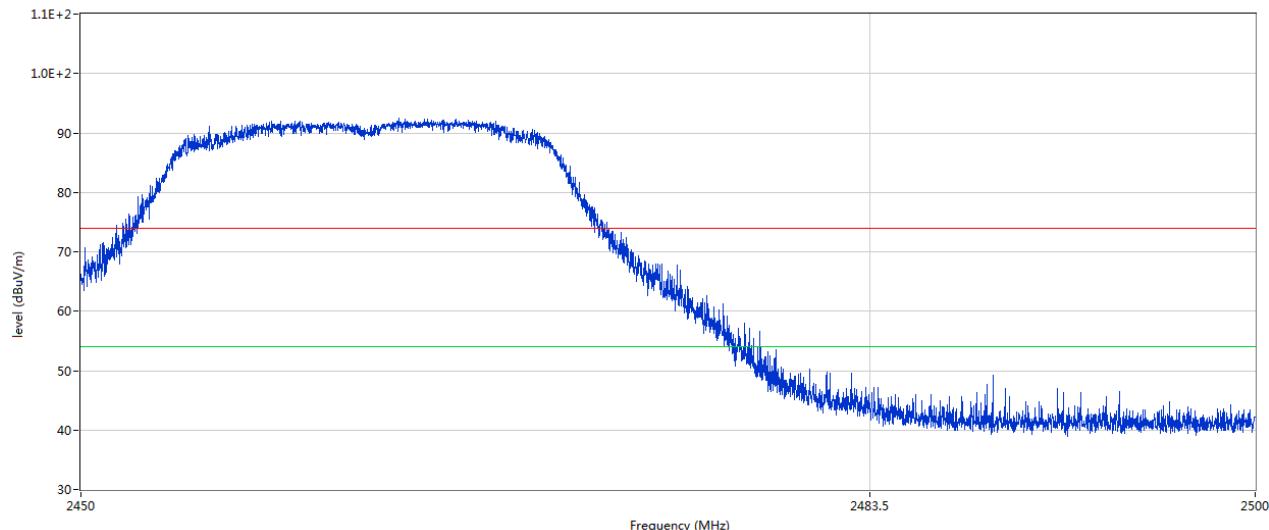
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FCC Part 15B Class B 1GHz-18GHz - 2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2483.5	47.16	-3.57	74.0	-26.84	Peak	342.00	100	V	Pass

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EUT	Developer Board		Model	DB8
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 (dB μ V/m)	47.11	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11n HT20 mode, Low Channel, Vertical				
2390	PK (dB μ V/m)	49.75	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)

EUT	Developer Board		Model	DB8
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 (dB μ V/m)	50.38	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11n HT20 mode, High Channel, Vertical				
2483.5	PK (dB μ V/m)	46.52	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)

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EUT	Developer Board		Model	DB8
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT40 mode, Low Channel, Horizontal				
2390	PK (dB μ V/m)	45.79	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11n HT20 mode, Low Channel, Vertical				
2390	PK (dB μ V/m)	48.86	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)

EUT	Developer Board		Model	DB8
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT40 mode, High Channel, Horizontal				
2483.5	PK (dB μ V/m)	48.53	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11n HT20 mode, High Channel, Vertical				
2483.5	PK (dB μ V/m)	44.71	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/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 mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

2 pcs External antenna with reversed polarity non standard unique antenna port.

Antenna gain : 2.0dBi

Directional gain = $2+10\log_2=5.01$ dBi

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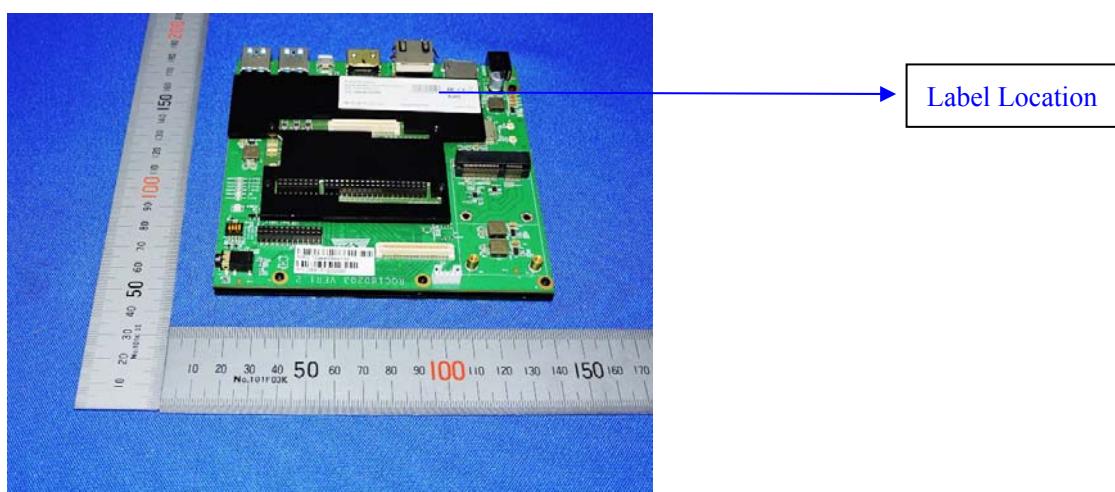
12.0 FCC ID Label

FCC ID: ZJU-D19EC5

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:



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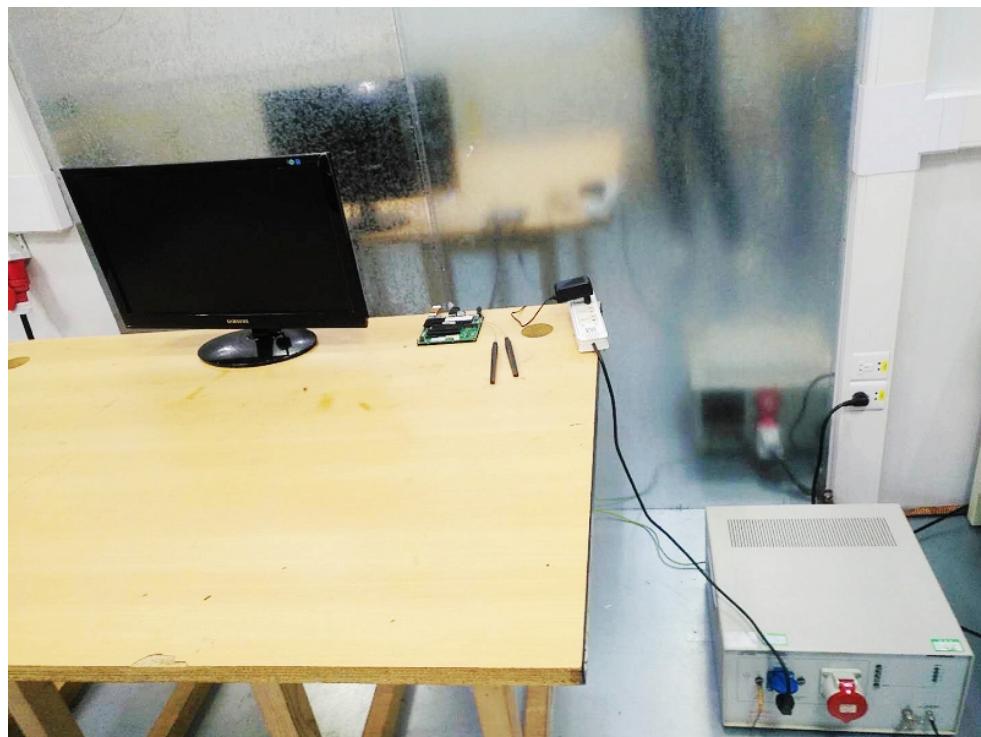
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13.0 Photo of testing

Conducted Emission Test Setup:



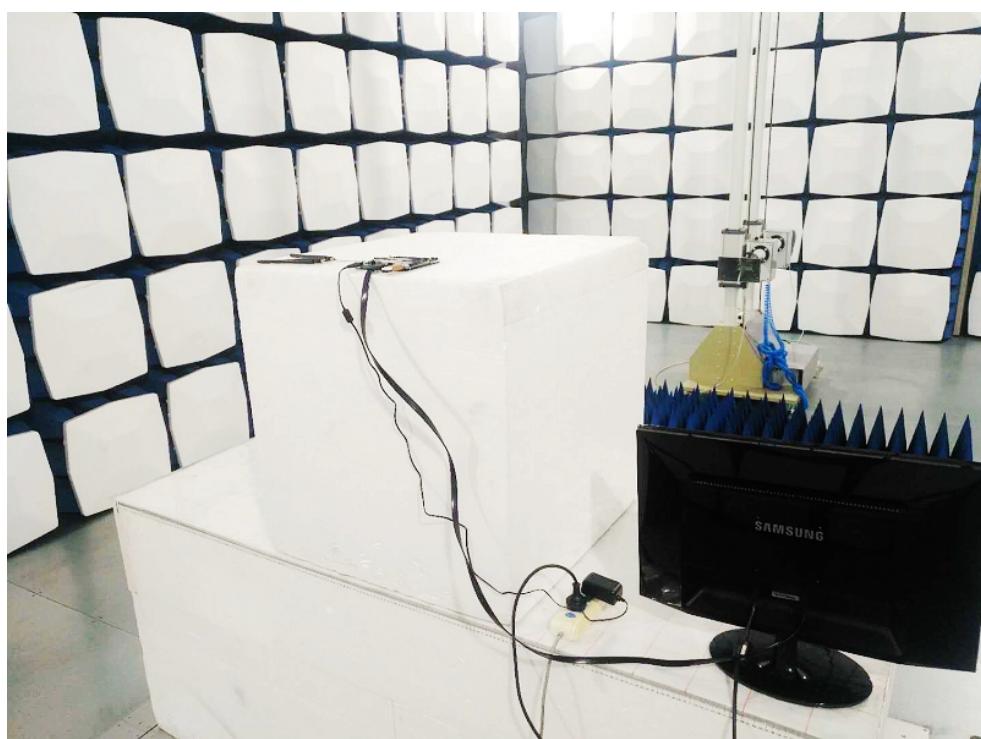
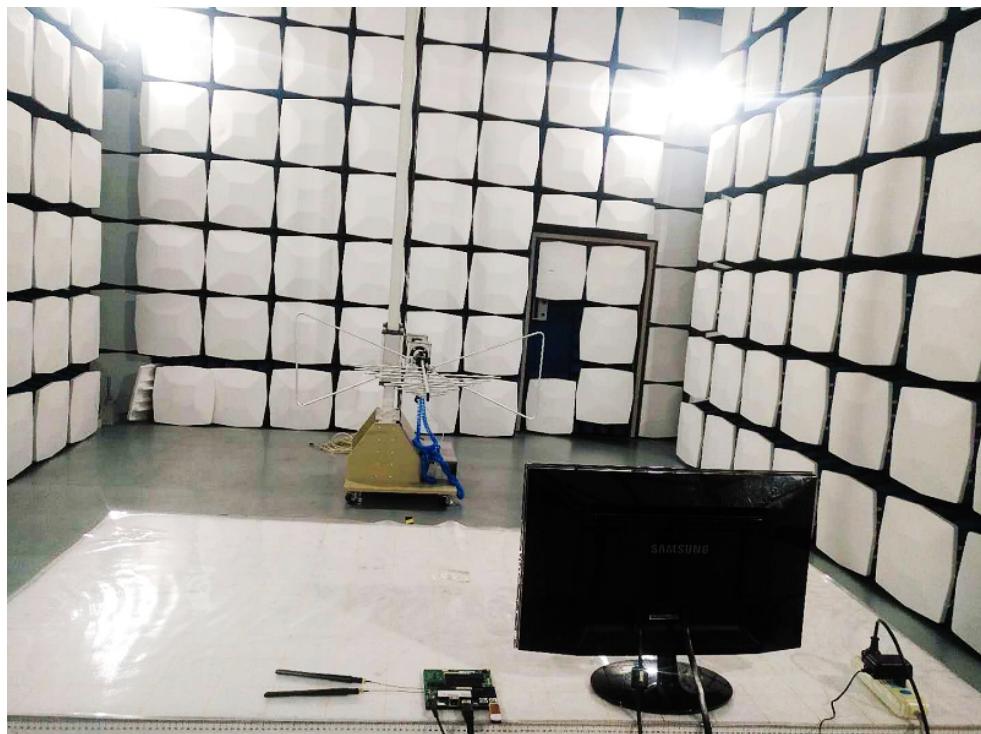
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Radiated Emission Test Setup:



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Photographs – EUT

Power Supply



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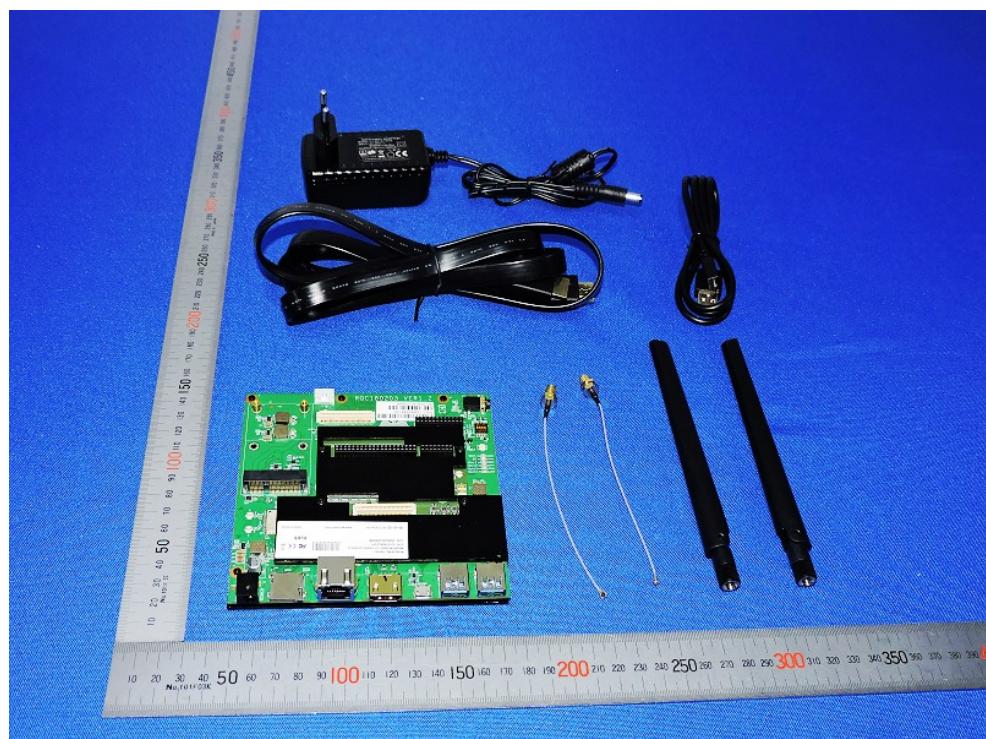
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Power Supply



Outside View



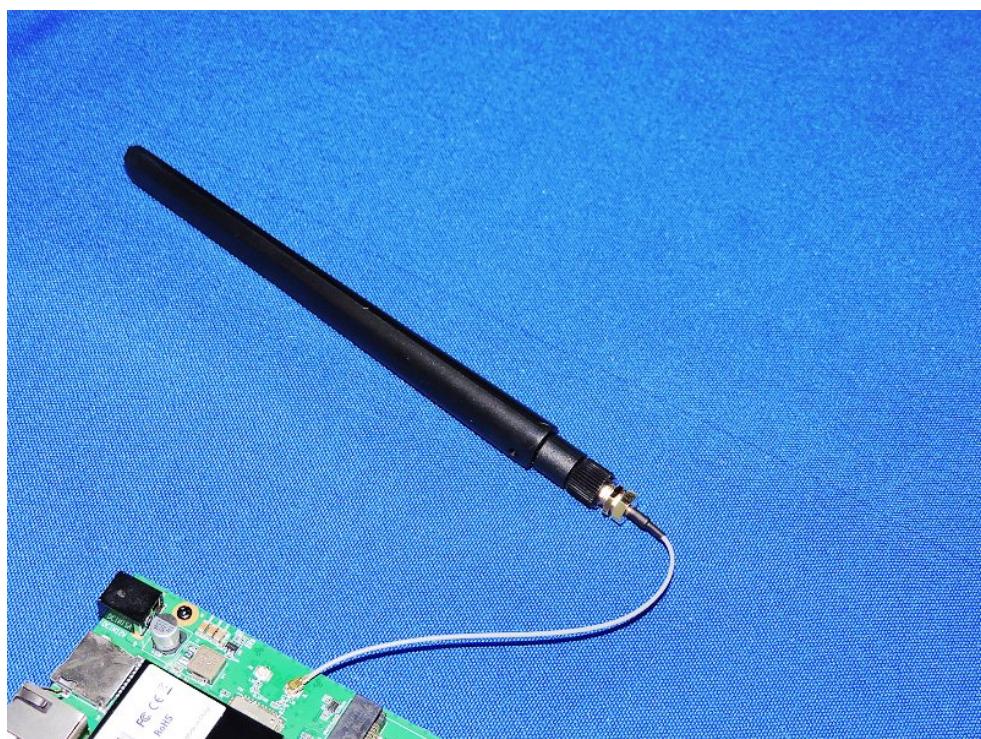
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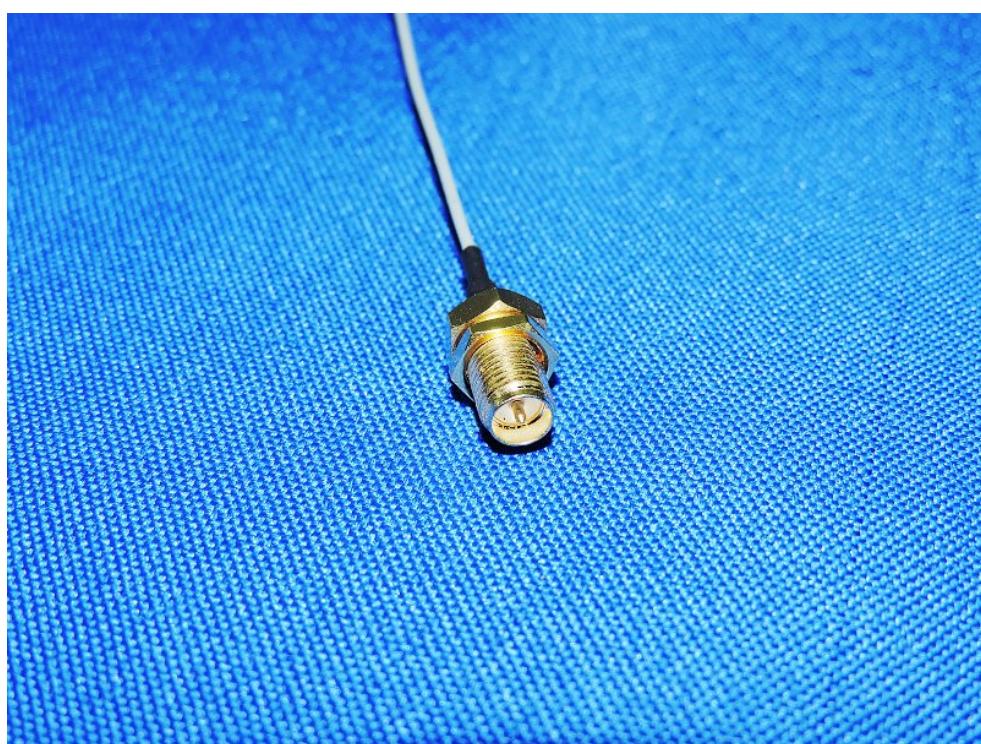
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Outside View



Inside view



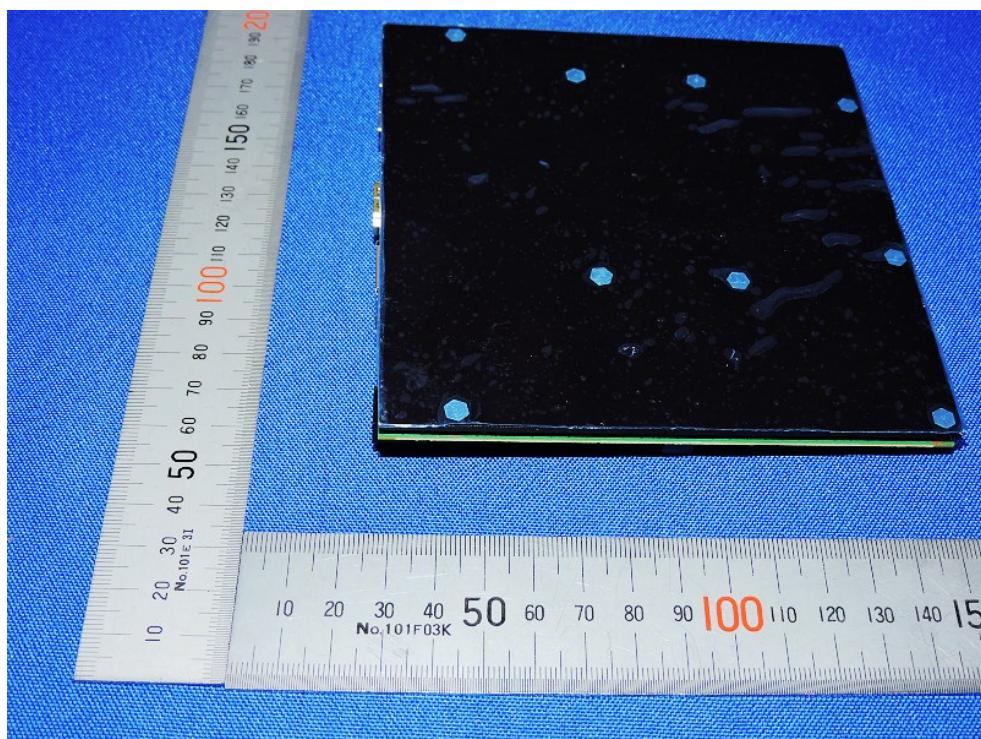
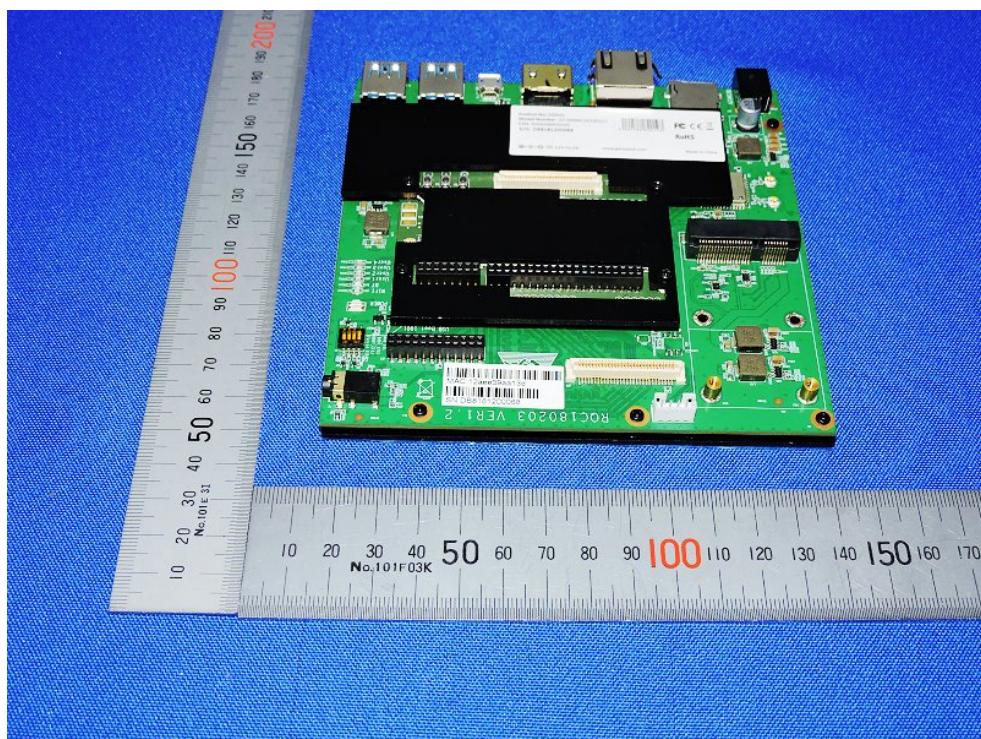
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Inside view



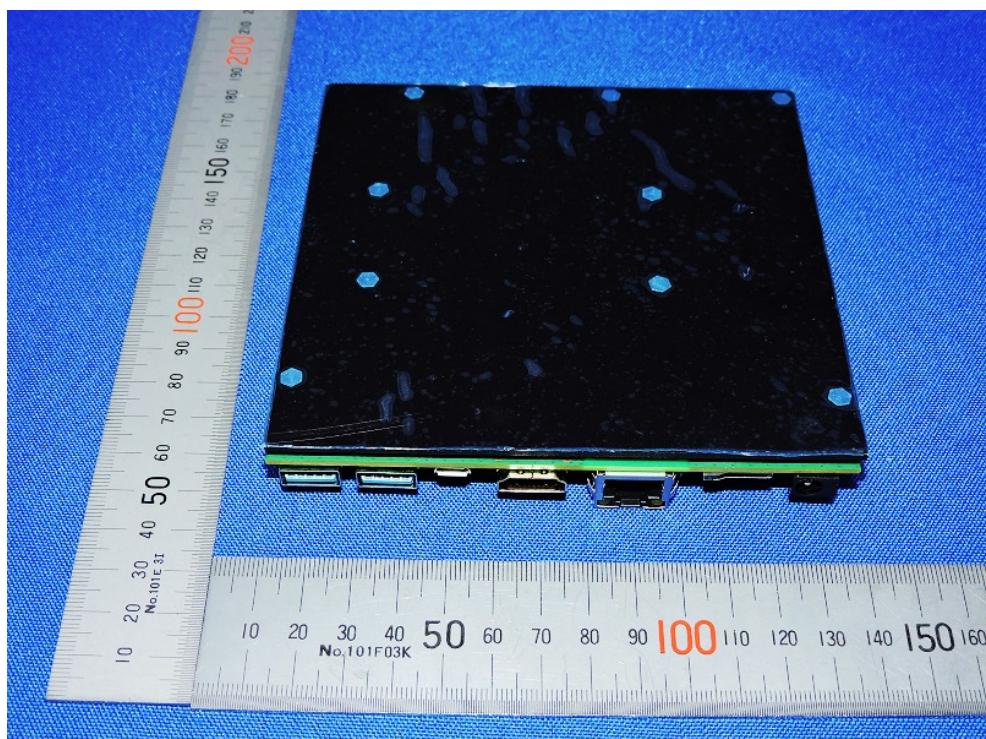
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Inside view



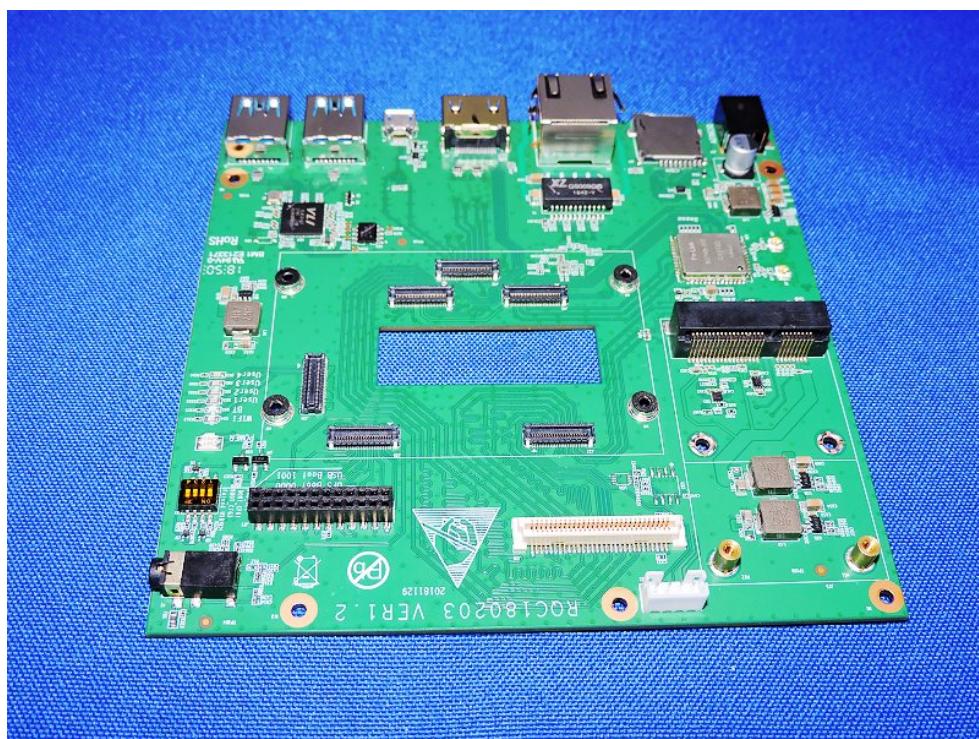
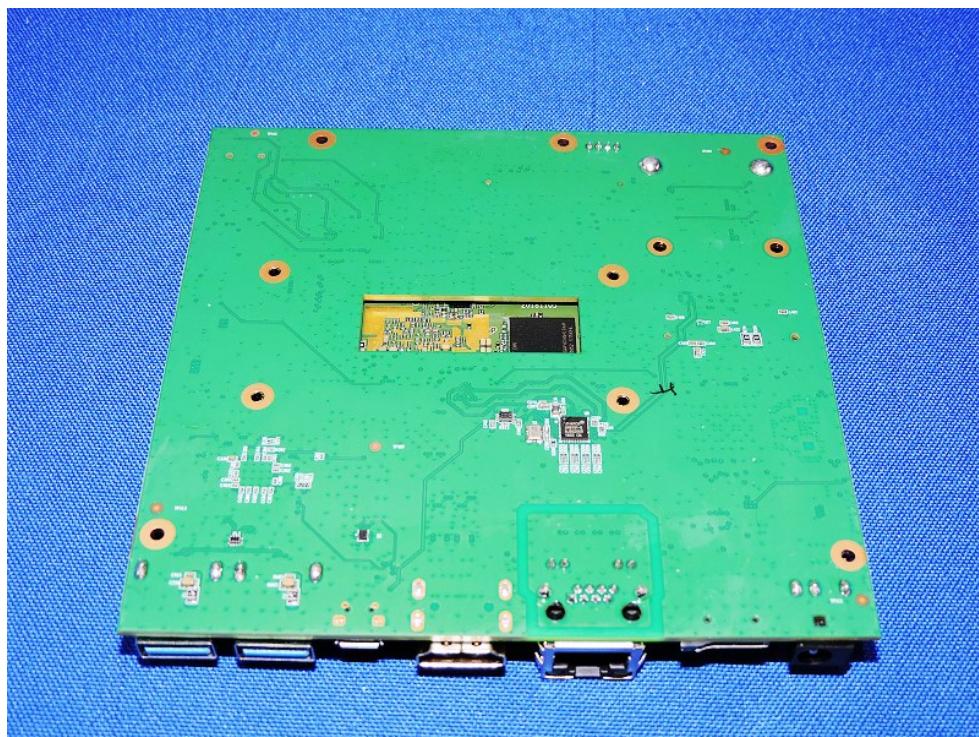
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Inside view



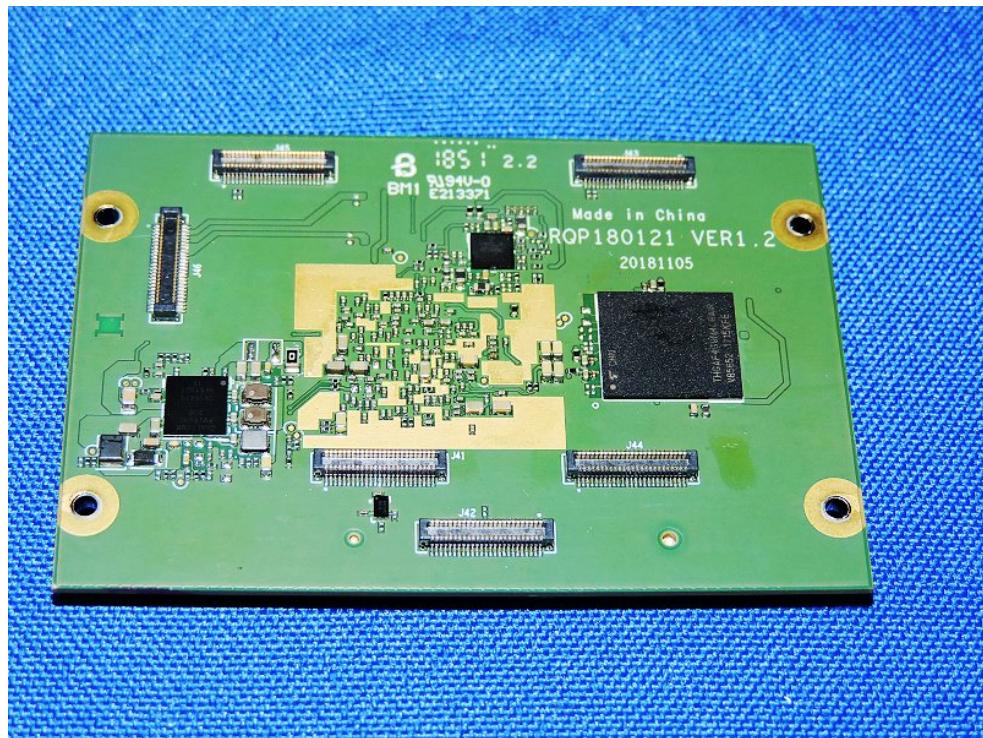
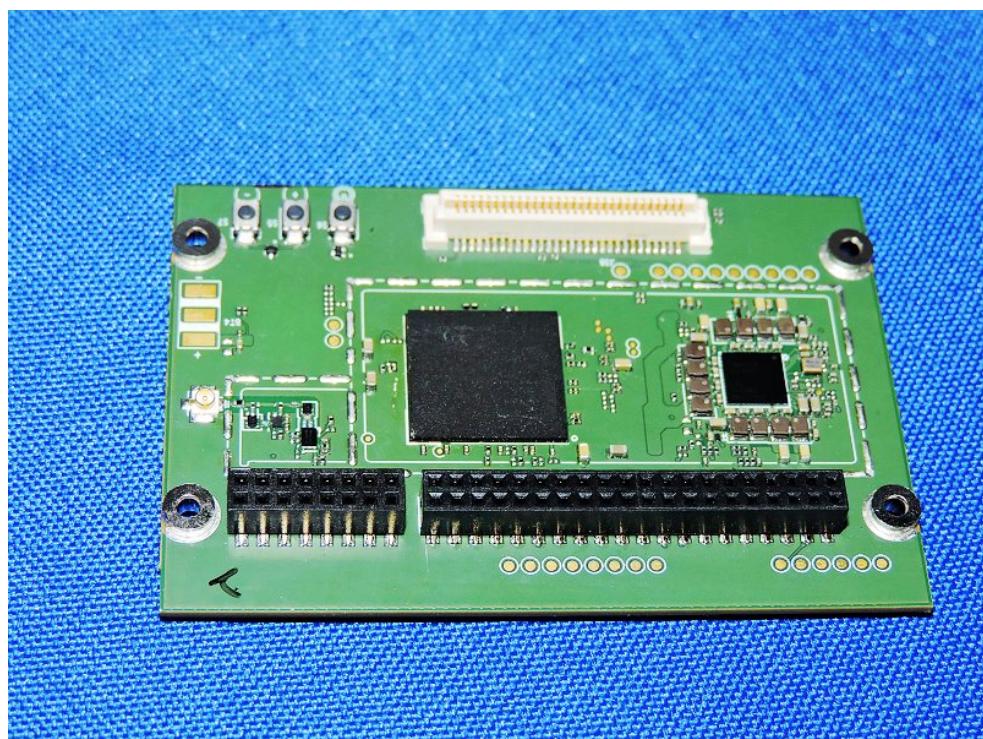
The report refers only to the sample tested and does not apply to the bulk.

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Inside view



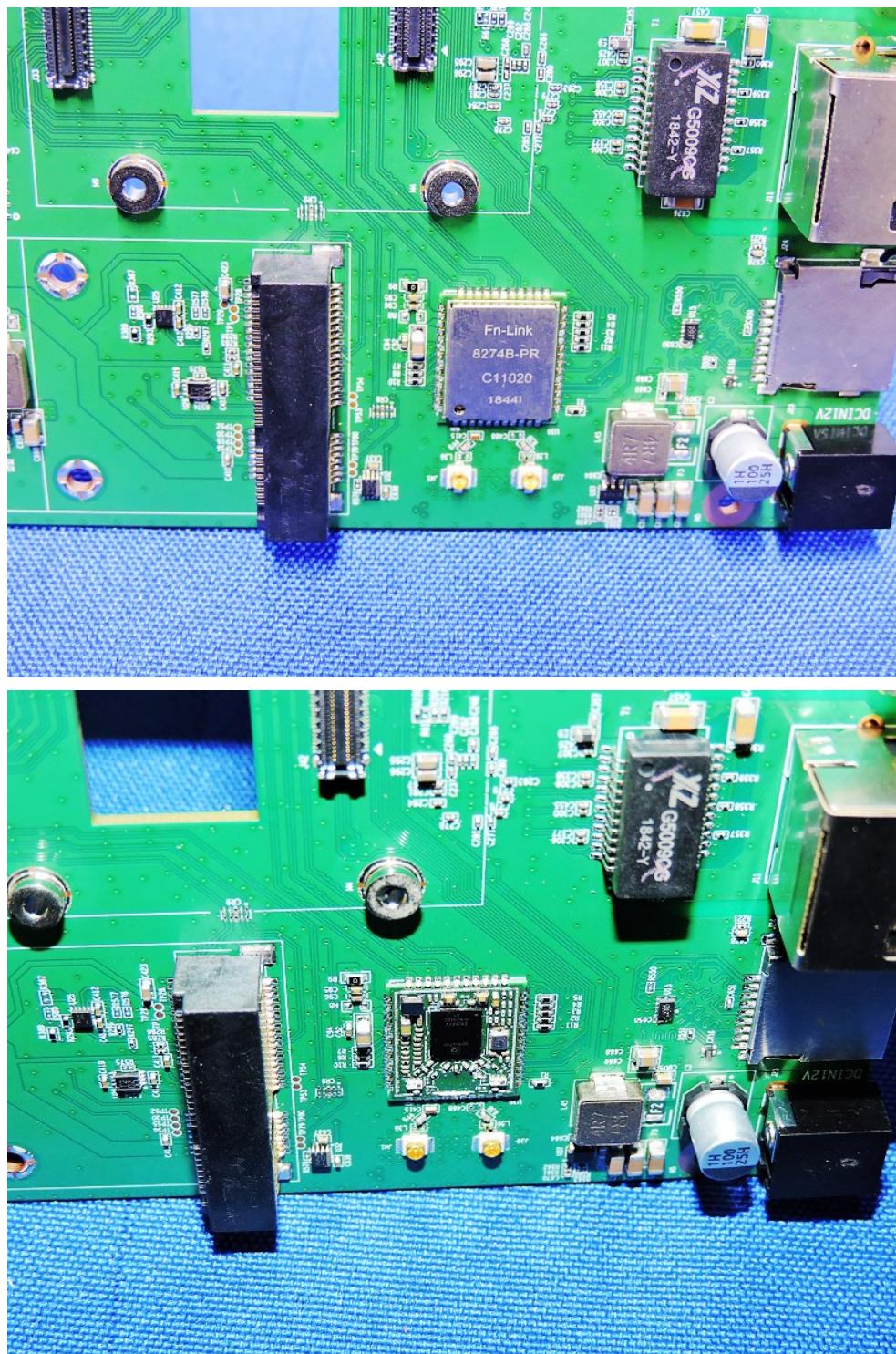
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Inside view



End of the report

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