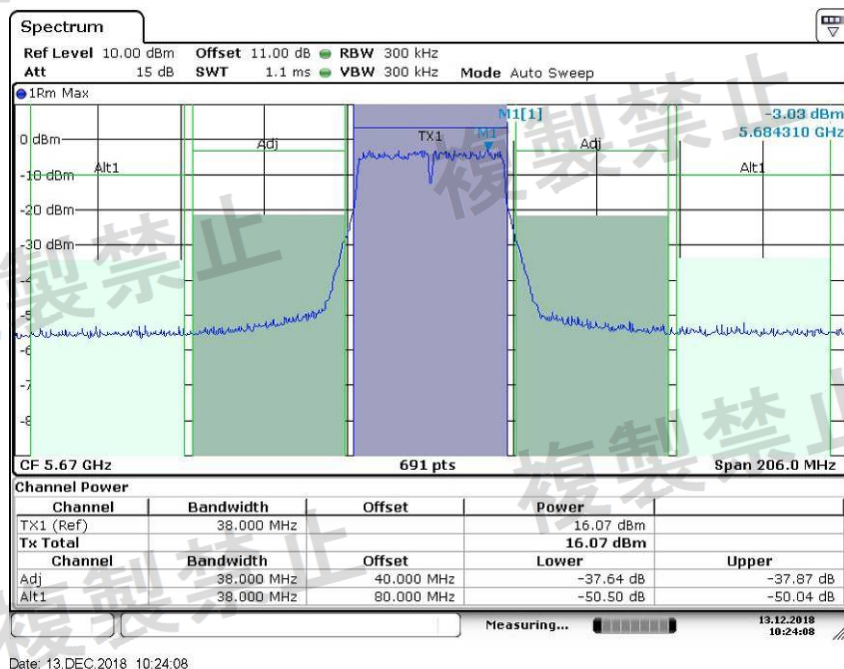
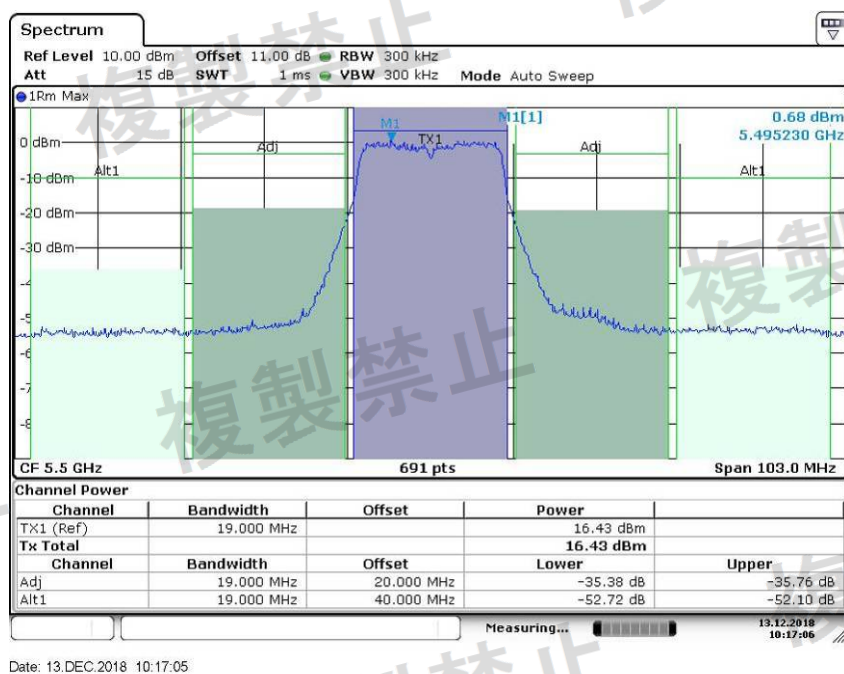


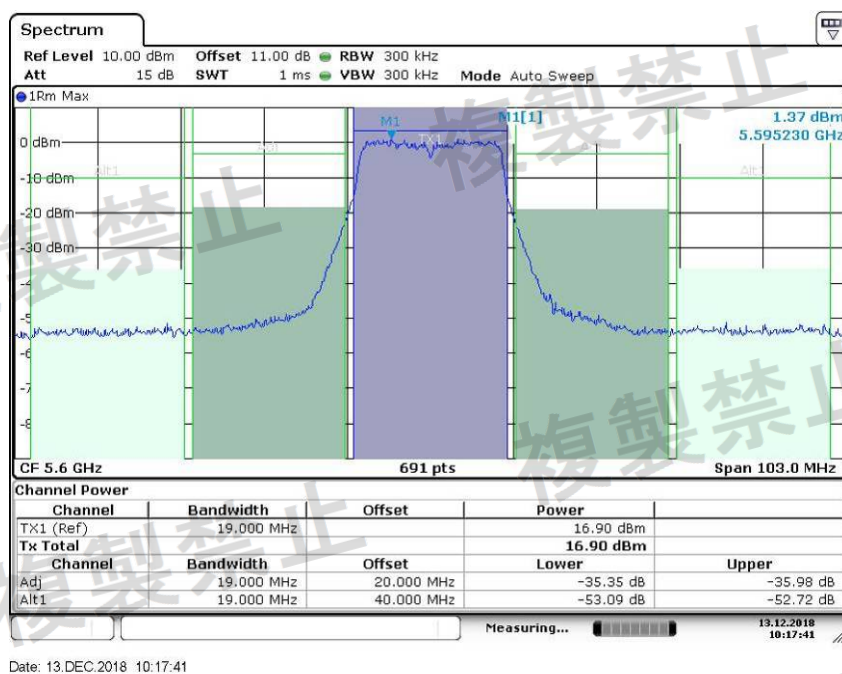
Model	802.11n(HT40)	Test Voltage	Normal voltage
Test Frequency	5670MHz	Test Result	Pass



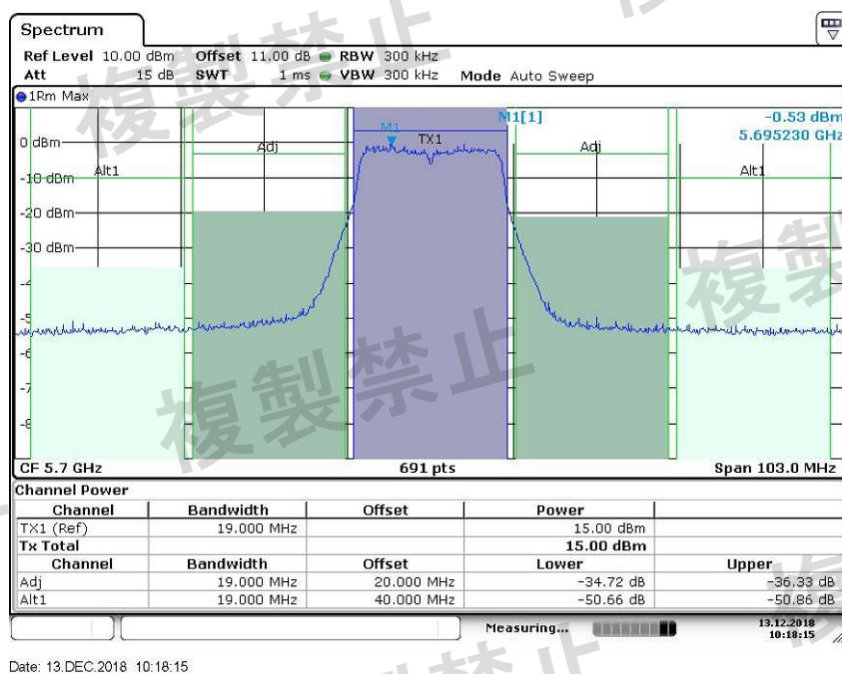
Model	802.11ac(HT20)	Test Voltage	Normal voltage
Test Frequency	5500MHz	Test Result	Pass



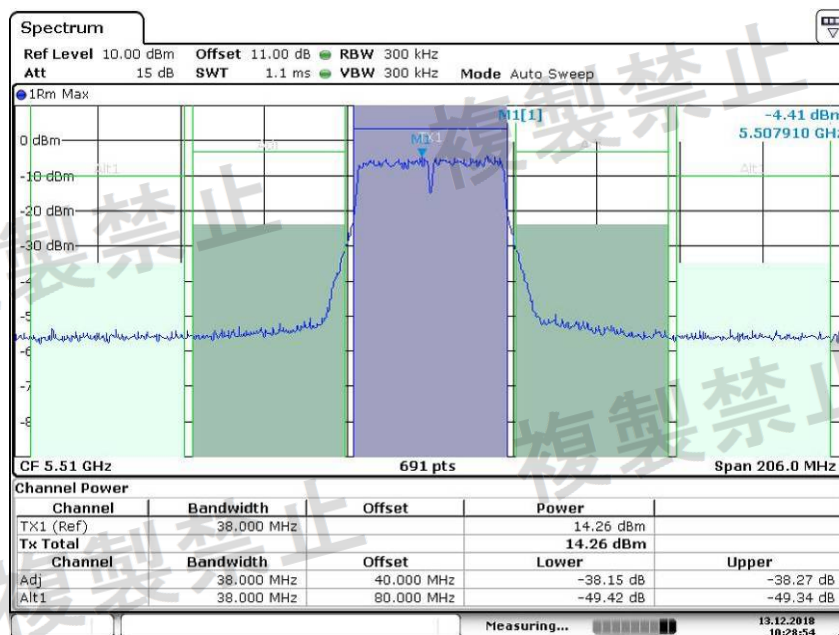
Model	802.11ac(HT20)	Test Voltage	Normal voltage
Test Frequency	5600MHz	Test Result	Pass



Model	802.11ac(HT20)	Test Voltage	Normal voltage
Test Frequency	5700MHz	Test Result	Pass

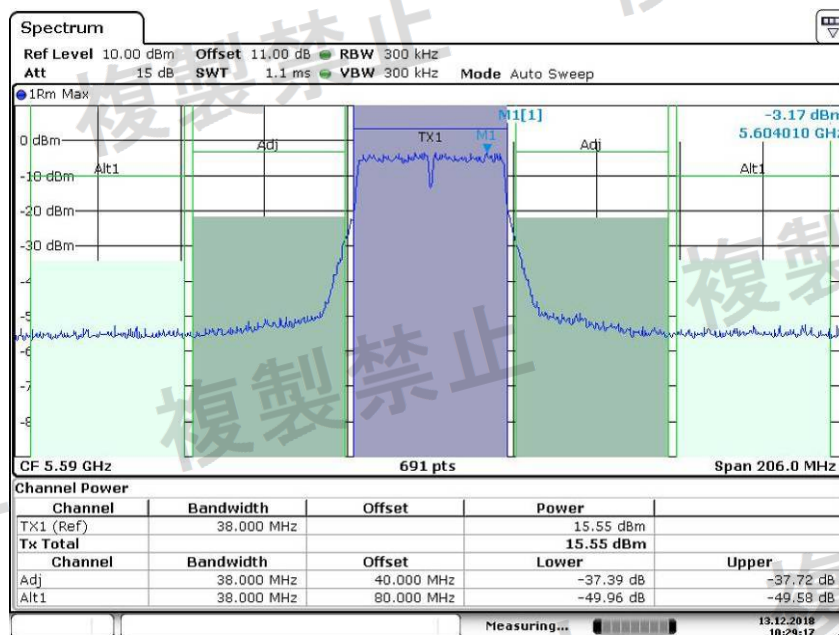


Model	802.11ac(HT40)	Test Voltage	Normal voltage
Test Frequency	5510MHz	Test Result	Pass



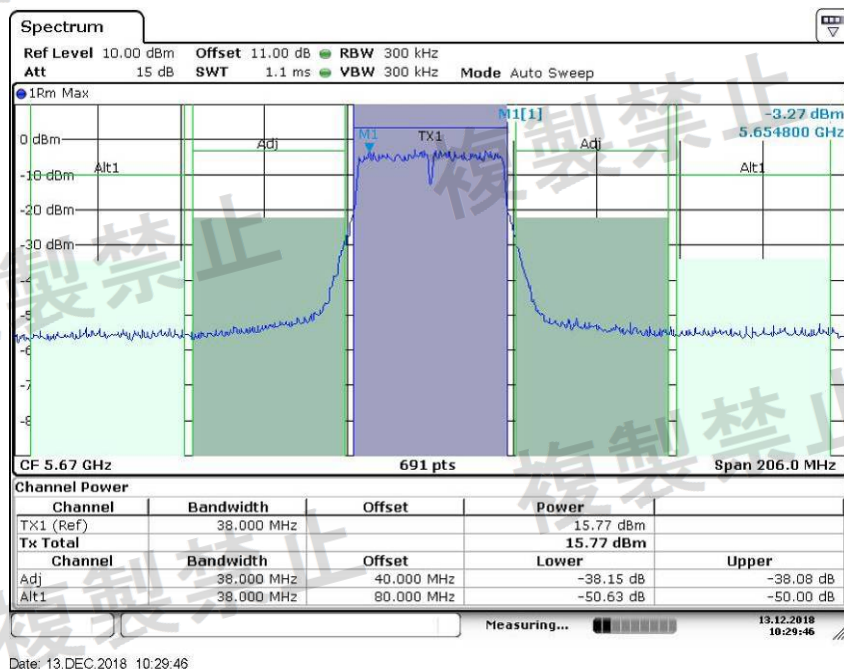
Date: 13.DEC.2018 10:28:55

Model	802.11ac(HT40)	Test Voltage	Normal voltage
Test Frequency	5590MHz	Test Result	Pass

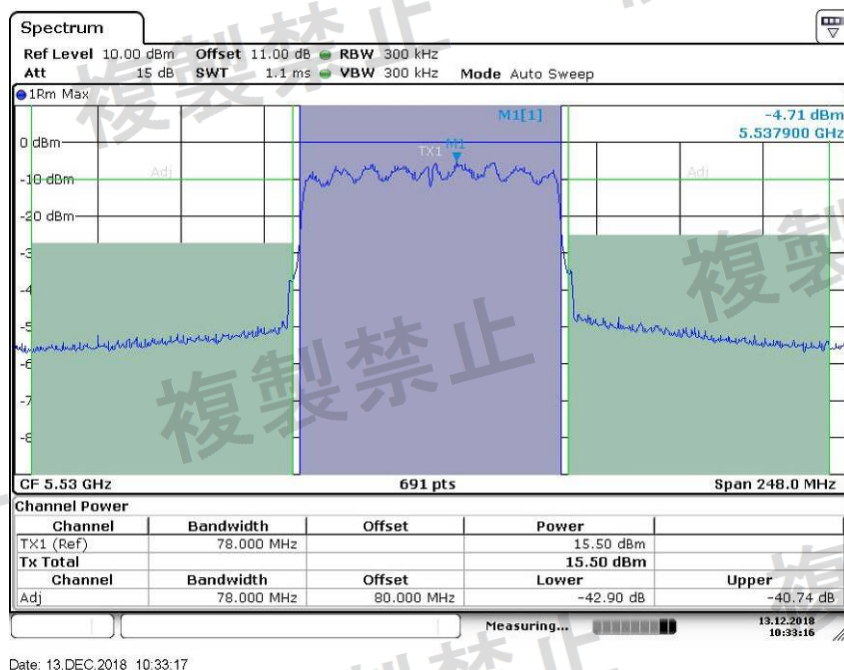


Date: 13.DEC.2018 10:29:17

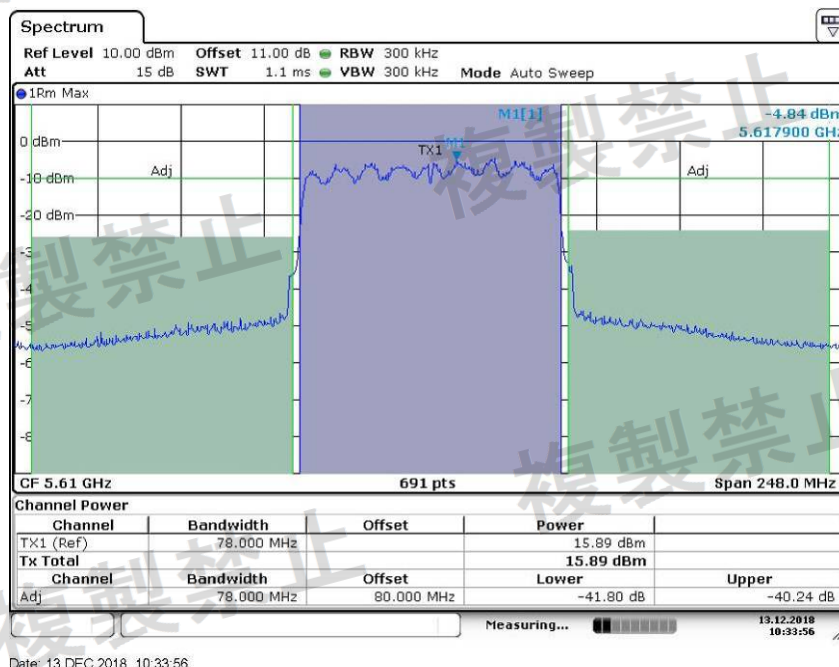
Model	802.11ac(HT40)	Test Voltage	Normal voltage
Test Frequency	5670MHz	Test Result	Pass



Model	802.11ac(VHT80)	Test Voltage	Normal voltage
Test Frequency	5530MHz	Test Result	Pass



Model	802.11ac(VHT80)	Test Voltage	Normal voltage
Test Frequency	5610MHz	Test Result	Pass



13. Leak Power Out Of Band

13.1. LIMIT

ARIB STD-T71, Clause 3.1.2 (10)

W52 Band

below 18MHz bandwidth

Frequency band	Deviation frequency 5240MHz	Limit
5140 - 5142MHz	98- 100MHz	2.5μW/MHz or less
5142 - 5150MHz	90 - 98MHz	15μW/MHz or less
5250 - 5251MHz	10 - 11MHz	$10^{1-(f-9)}$ mW/MHz or less
5251 - 5260MHz	11 - 20MHz	$10^{-1-(8/90)(f-20)}$ mW/MHz or less
5260 - 5266.7MHz	20 - 26.7MHz	$10^{-1.8-(6/50)(f-20)}$ mW/MHz or less
5266.7 - 5360MHz	26.7 - 120MHz	2.5μW/MHz or less

between 18MHz to 19MHz bandwidth

Frequency band	Deviation frequency 5240MHz	Limit
5135 - 5142MHz	98- 105MHz	2.5μW/MHz or less
5142 - 5150MHz	90 - 98MHz	15μW/MHz or less
5250 - 5251MHz	10 - 11MHz	$10^{1-(f-9)}$ mW/MHz or less
5251 - 5260MHz	11 - 20MHz	$10^{-1-(8/90)(f-20)}$ mW/MHz or less
5260 - 5266.7MHz	20 - 26.7MHz	$10^{-1.8-(6/50)(f-20)}$ mW/MHz or less
5266.7 - 5365MHz	26.7 - 125MHz	2.5μW/MHz or less

approximately 40MHz bandwidth

Frequency band	Deviation frequency 5230MHz	Limit
5100 - 5141.6MHz	88.4- 130MHz	2.5μW/MHz or less
5141.6 - 5150MHz	80 - 88.4MHz	15μW/MHz or less
5250 - 5251MHz	20 - 21MHz	$10^{-(f-20)+\log(1/2)}$ mW/MHz or less
5251 - 5270MHz	21 - 40MHz	$10^{-(8/190)(f-21)-1+\log(1/2)}$ mW/MHz or less
5270 - 5278.4MHz	40 - 48.4MHz	$10^{-(3/50)(f-40)-1.8+\log(1/2)}$ mW/MHz or less
5278.4 - 5400MHz	48.4 - 170MHz	2.5μW/MHz or less

approximately 80MHz bandwidth

Frequency band	Deviation frequency 5210MHz	Limit
5020 - 5123.2MHz	86.8- 190MHz	2.5μW/MHz or less
5123.2 - 5150MHz	60 - 86.8MHz	15μW/MHz or less
5250 - 5251MHz	40 - 41MHz	$10^{-(f-40)+\log(1/4)}$ mW/MHz or less
5251 - 5290MHz	41 - 80MHz	$10^{-(8/390)(f-41)-1+\log(1/4)}$ mW/MHz or less
5290 - 5296.7MHz	80 - 86.7MHz	$10^{-(3/100)(f-80)-1.8+\log(1/4)}$ mW/MHz or less
5296.7 - 5480MHz	86.7 - 270MHz	2.5μW/MHz or less

W53 Band

below 18MHz bandwidth

Frequency band	Deviation frequency 5260MHz	Limit
5140 - 5233.3MHz	26.7 - 120MHz	2.5μW/MHz or less
5233.3 - 5240MHz	20 - 26.7MHz	$10^{-1.8-(6/50)(f-20)}$ mW/MHz or less
5240 - 5249MHz	11 - 20MHz	$10^{-1-(8/90)(f-11)}$ mW/MHz or less
5249 - 5250MHz	10 - 11MHz	$10^{-1-(f-9)}$ mW/MHz or less
5350 - 5360MHz	90 - 100MHz	2.5μW/MHz or less

between 18MHz to 19MHz bandwidth

Frequency band	Deviation frequency 5260MHz	Limit
5135 - 5233.3MHz	26.7 - 125MHz	2.5μW/MHz or less
5233.3 - 5240MHz	20 - 26.7MHz	$10^{-1.8-(6/50)(f-20)}$ mW/MHz or less
5240 - 5249MHz	11 - 20MHz	$10^{-1-(8/90)(f-11)}$ mW/MHz or less
5249 - 5250MHz	10 - 11MHz	$10^{-1-(f-9)}$ mW/MHz or less
5350 - 5365MHz	90 - 105MHz	2.5μW/MHz or less

approximately 40MHz bandwidth

Frequency band	Deviation frequency 5270MHz	Limit
5100 - 5210MHz	60 - 160MHz	2.5μW/MHz or less
5210 - 5221.6MHz	48.4 - 60MHz	2.5μW/MHz or less
5221.6 - 5230MHz	40 - 48.4MHz	$10^{-(3/50)(f-40)-1.8+\log(1/2)}$ mW/MHz or less
5230 - 5249MHz	21 - 40MHz	$10^{-(8/190)(f-21)-1+\log(1/2)}$ mW/MHz or less
5249 - 5250MHz	20 - 21MHz	$10^{-(f-20)+\log(1/2)}$ mW/MHz or less
5350 - 5358.4MHz	80 - 88.4MHz	15μW/MHz or less
5358.4 - 5400MHz	88.4 - 100MHz	2.5μW/MHz or less

approximately 80MHz bandwidth

Frequency band	Deviation frequency 5290MHz	Limit
5020 - 5203.3MHz	86.7 - 270MHz	2.5μW/MHz or less
5203.3 - 5210MHz	80 - 86.7MHz	$10^{-(3/100)(f-80)-1.8+\log(1/4)}$ W/MHz or less
5210 - 5249MHz	41 - 80MHz	$10^{-(8/390)(f-41)-1+\log(1/4)}$ mW/MHz or less
5249 - 5250MHz	40 - 41MHz	$10^{-(f-40)+\log(1/4)}$ mW/MHz or less
5350 - 5376.8MHz	60 - 86.8MHz	15μW/MHz or less
5376.8 - 5480MHz	86.8 - 190MHz	2.5μW/MHz or less

W56 Band

approximately 20MHz bandwidth

Frequency band	Limit
5,455-5,460MHz	2.5 μ W/MHz or less
5,460-5,470MHz	12.5 μ W/MHz or less
5,725-5,740MHz	12.5 μ W/MHz or less
5,740-5,745MHz	2.5 μ W/MHz or less

approximately 40MHz bandwidth

Frequency band	Limit
5,420MHz-5,460MHz	12.5 μ W/MHz or less
5,460MHz-5,470MHz	50.0 μ W/MHz or less
5,725MHz-5,760MHz	12.5 μ W/MHz or less

approximately 80MHz bandwidth

Frequency band	Limit
5,340MHz-5,460MHz	12.5 μ W/MHz or less
5,460MHz-5,469.5MHz	50.0 μ W/MHz or less
5,469.5MHz-5,470MHz	51.2 μ W/MHz or less
5,725MHz-5,800MHz	12.5 μ W/MHz or less

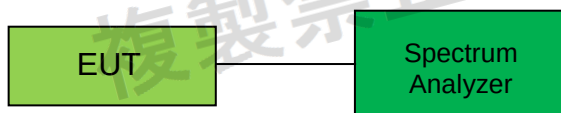
13.2. TEST PROCEDURE

Test Method for Radio Equipment mentioned in Certification Regulations Article 2, Item 19-3-2

MIC Notice No.88 Annex45 Clause 7

13.3. TEST CONFIGURATION

Temperature and Voltage Measurement (under normal and extreme test conditions)



Remarks:

The spectrum analyzer could be connected to a monopole antenna or directly connected to the EUT, if the EUT has already employing an antenna connector.

13.4. TEST RESULT

W52 Band leak power of neighboring channels

Temperature :	28℃	Test By:	XW
Humidity :	65 %	Test voltage	Normal voltage

Band	Mode	Frequency (MHz)	Test Result
W52	802.11a	5180	PASS
		5200	PASS
		5240	PASS
	802.11n (HT20)	5180	PASS
		5200	PASS
		5240	PASS
	802.11ac (HT20)	5180	PASS
		5200	PASS
		5240	PASS

Temperature :	28℃	Test By:	XW
Humidity :	65 %	Test voltage	Normal voltage

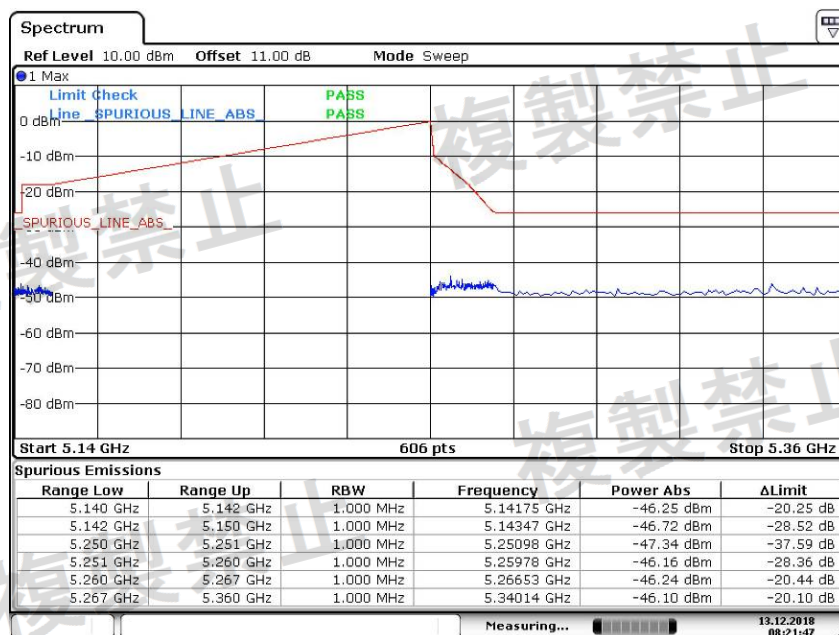
Band	Mode	Frequency (MHz)	Test Result
W52	802.11n (HT40)	5190	PASS
		5230	PASS
	802.11ac (HT40)	5190	PASS
		5230	PASS

Temperature :	28℃	Test By:	XW
Humidity :	65 %	Test voltage	Normal voltage

Band	Mode	Frequency (MHz)	Channel Power (dBm)
W52	802.11ac (VHT80)	5210	PASS

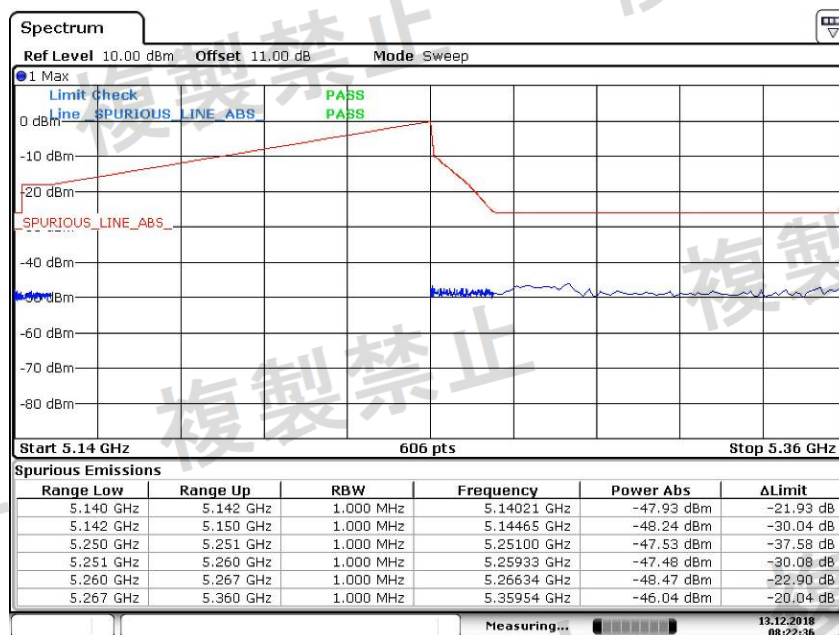
TEST PLOTS

Model	802.11a	Test Voltage	Normal voltage
Test Frequency	5180MHz	Test Result	Pass



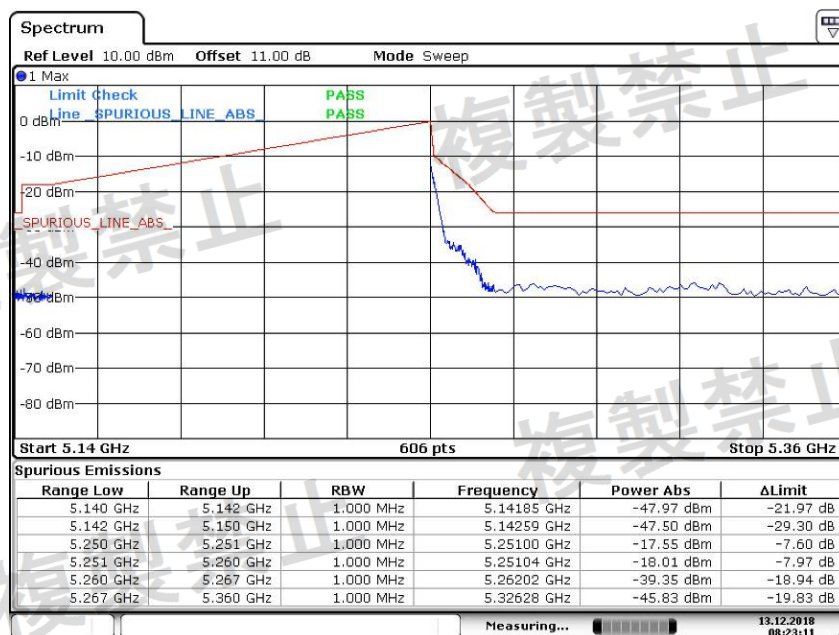
Date: 13.DEC.2018 08:21:47

Model	802.11a	Test Voltage	Normal voltage
Test Frequency	5200MHz	Test Result	Pass



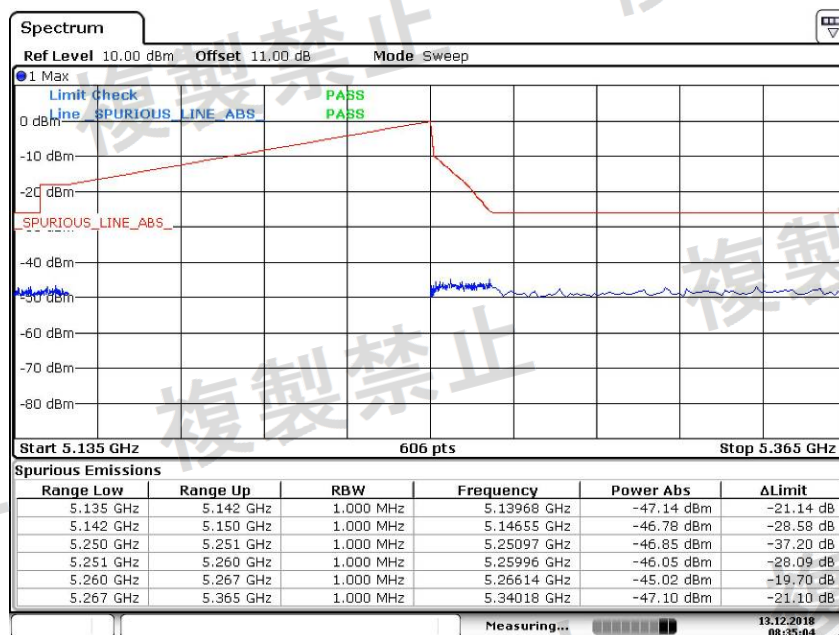
Date: 13.DEC.2018 08:22:35

Model	802.11a	Test Voltage	Normal voltage
Test Frequency	5240MHz	Test Result	Pass



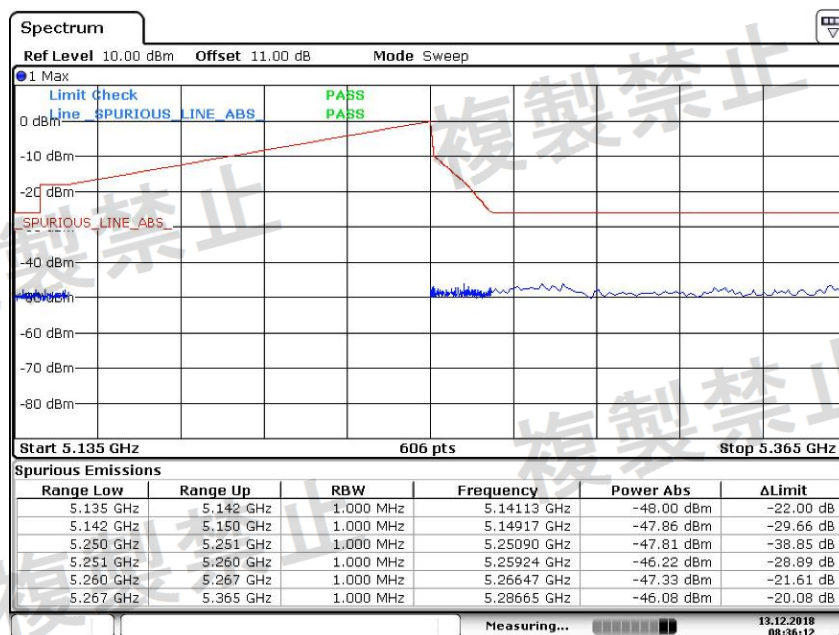
Date: 13.DEC.2018 08:23:11

Model	802.11n(HT20)	Test Voltage	Normal voltage
Test Frequency	5180MHz	Test Result	Pass



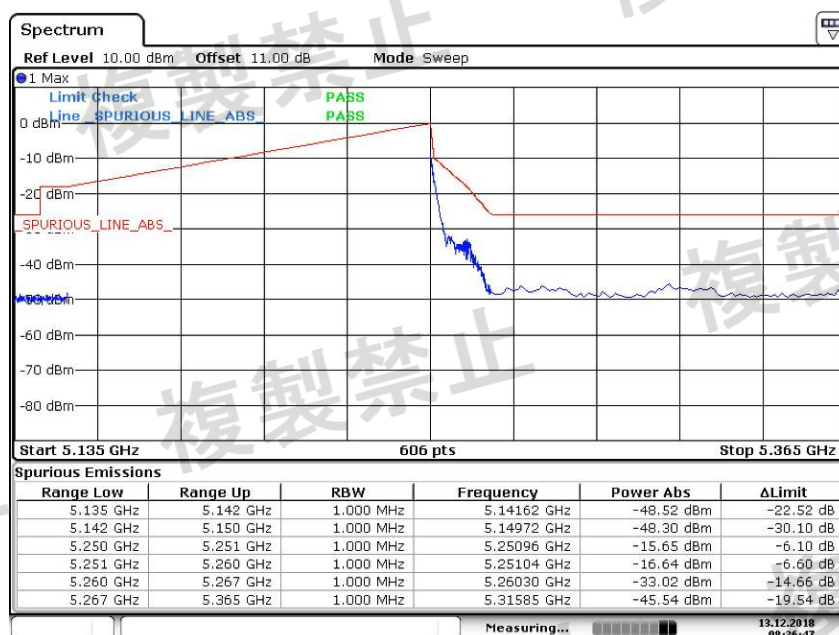
Date: 13.DEC.2018 08:35:05

Model	802.11n(HT20)	Test Voltage	Normal voltage
Test Frequency	5200MHz	Test Result	Pass



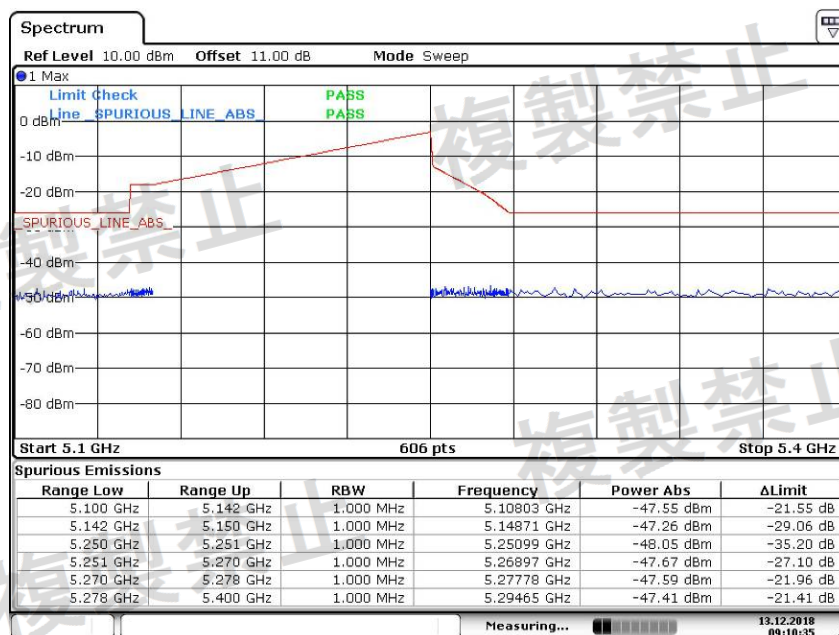
Date: 13.DEC.2018 08:36:12

Model	802.11n(HT20)	Test Voltage	Normal voltage
Test Frequency	5240MHz	Test Result	Pass



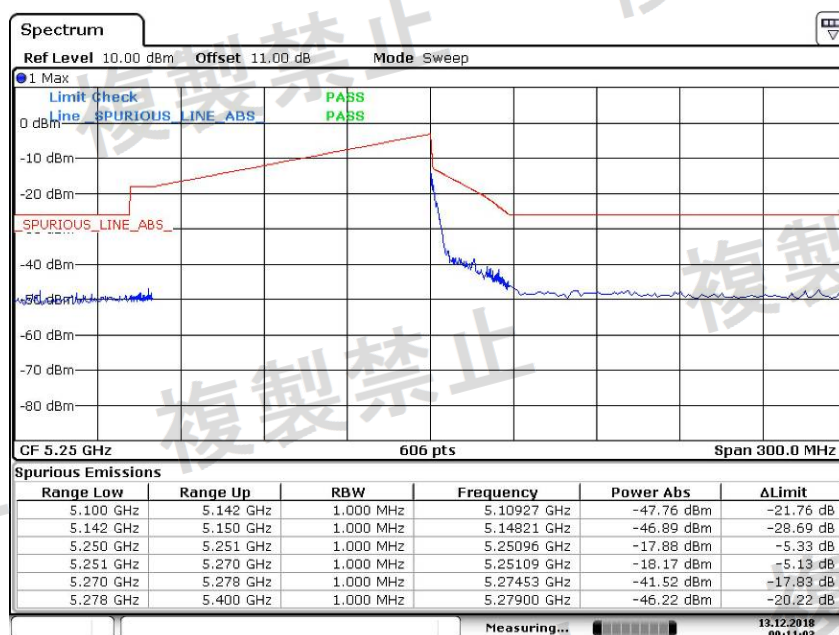
Date: 13.DEC.2018 08:36:47

Model	802.11n(HT40)	Test Voltage	Normal voltage
Test Frequency	5190MHz	Test Result	Pass



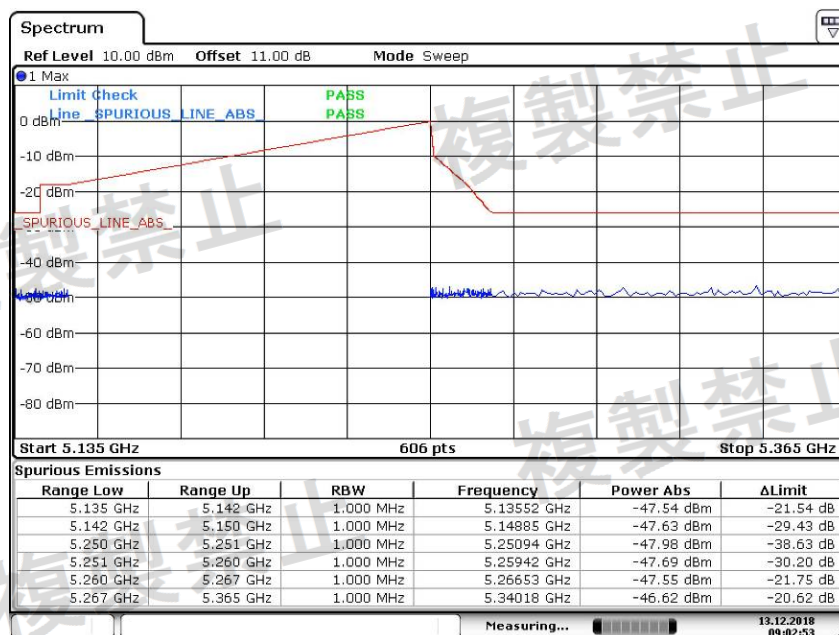
Date: 13.DEC.2018 09:10:35

Model	802.11n(HT40)	Test Voltage	Normal voltage
Test Frequency	5230MHz	Test Result	Pass



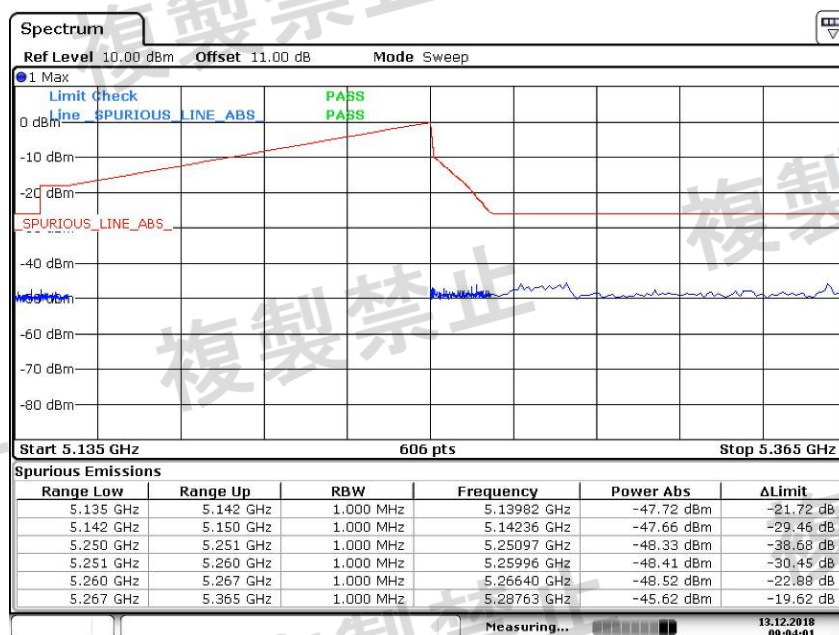
Date: 13.DEC.2018 09:11:02

Model	802.11ac(HT20)	Test Voltage	Normal voltage
Test Frequency	5180MHz	Test Result	Pass



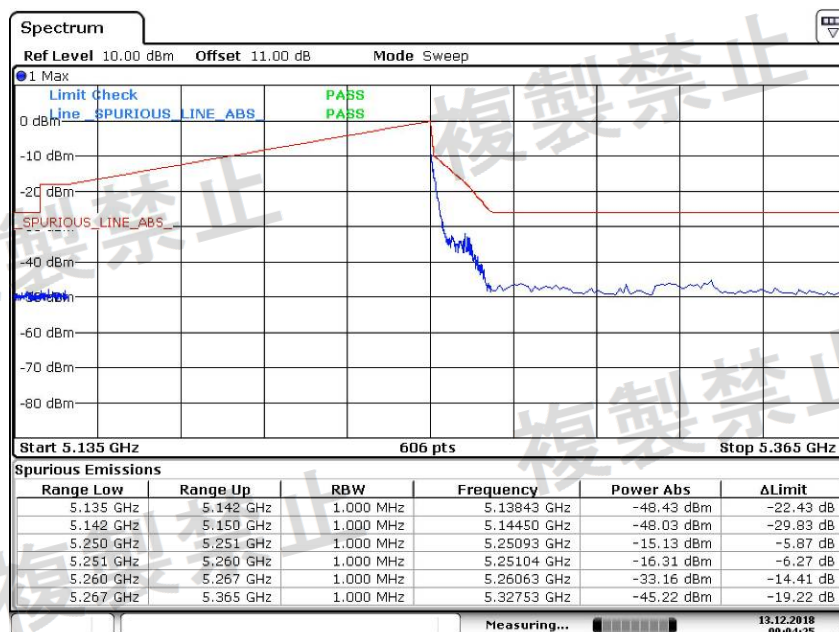
Date: 13.DEC.2018 09:02:53

Model	802.11ac(HT20)	Test Voltage	Normal voltage
Test Frequency	5200MHz	Test Result	Pass



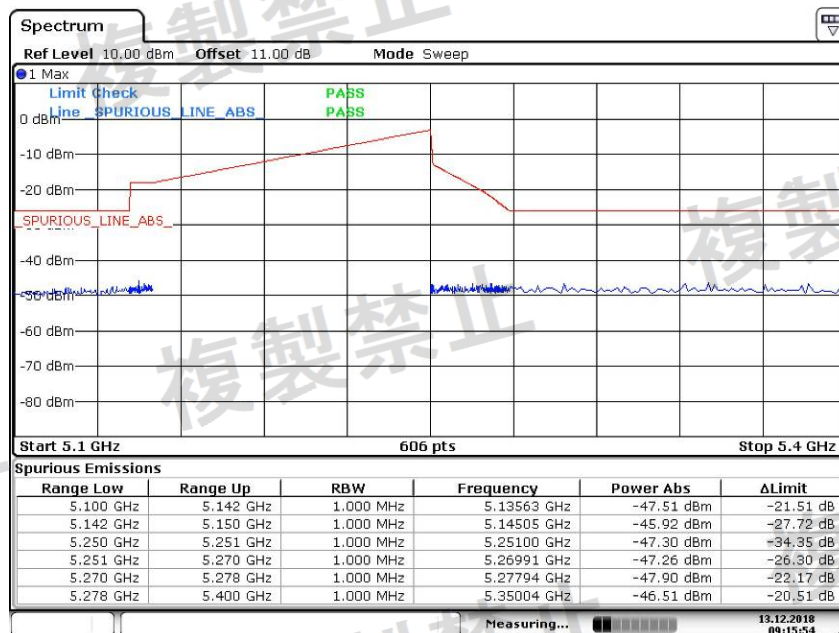
Date: 13.DEC.2018 09:04:01

Model	802.11ac(HT20)	Test Voltage	Normal voltage
Test Frequency	5240MHz	Test Result	Pass



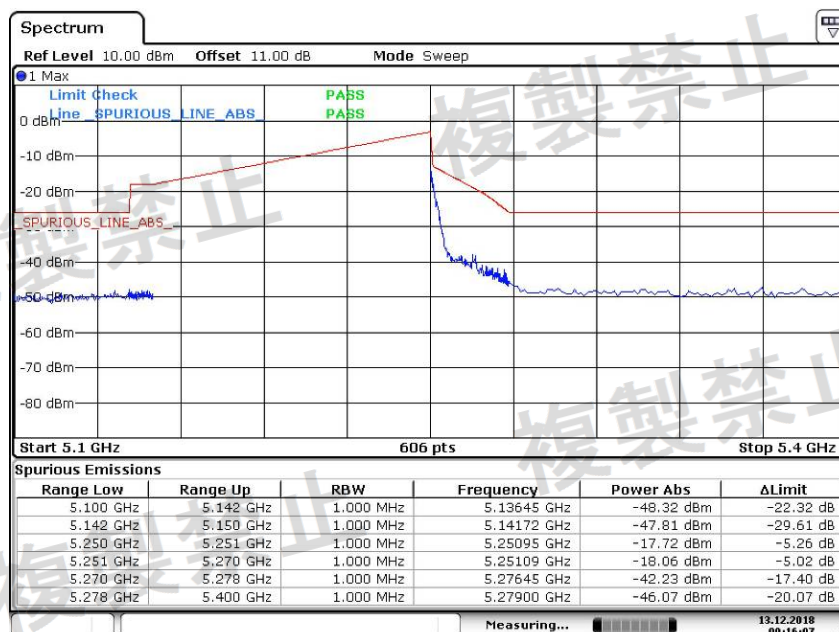
Date: 13.DEC.2018 09:04:26

Model	802.11ac(HT40)	Test Voltage	Normal voltage
Test Frequency	5190MHz	Test Result	Pass



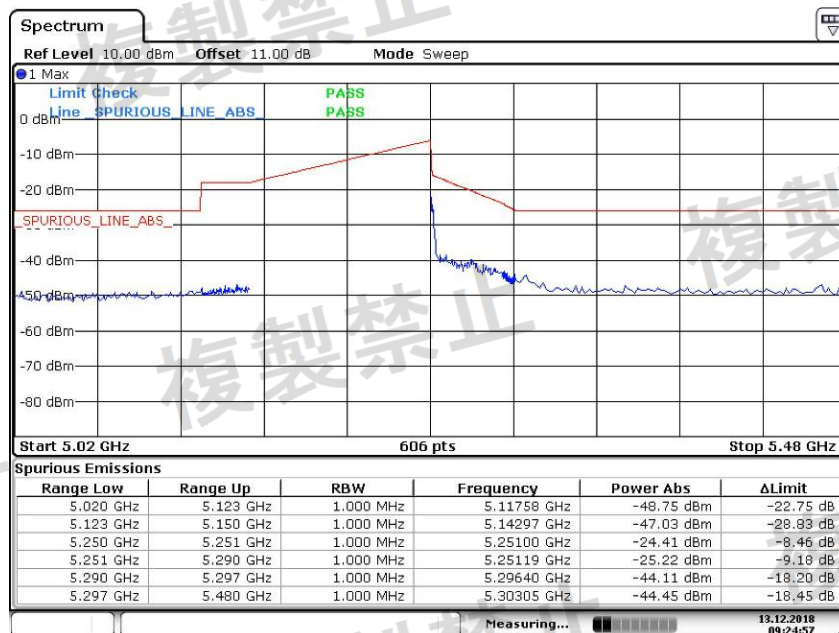
Date: 13.DEC.2018 09:15:54

Model	802.11ac(HT40)	Test Voltage	Normal voltage
Test Frequency	5230MHz	Test Result	Pass



Date: 13.DEC.2018 09:16:08

Model	802.11ac(VHT80)	Test Voltage	Normal voltage
Test Frequency	5210MHz	Test Result	Pass



Date: 13.DEC.2018 09:24:58

W53 Band leak power of neighboring channels

Temperature :	28℃	Test By:	XW
Humidity :	65 %	Test voltage	Normal voltage

Band	Mode	Frequency (MHz)	Test Result
W53	802.11a	5260	PASS
		5280	PASS
		5320	PASS
	802.11n (HT20)	5260	PASS
		5280	PASS
		5320	PASS
	802.11ac (HT20)	5260	PASS
		5280	PASS
		5320	PASS

Temperature :	28℃	Test By:	XW
Humidity :	65 %	Test voltage	Normal voltage

Band	Mode	Frequency (MHz)	Test Result
W53	802.11n (HT40)	5270	PASS
		5310	PASS
	802.11ac (HT40)	5270	PASS
		5310	PASS

Temperature :	28℃	Test By:	XW
Humidity :	65 %	Test voltage	Normal voltage

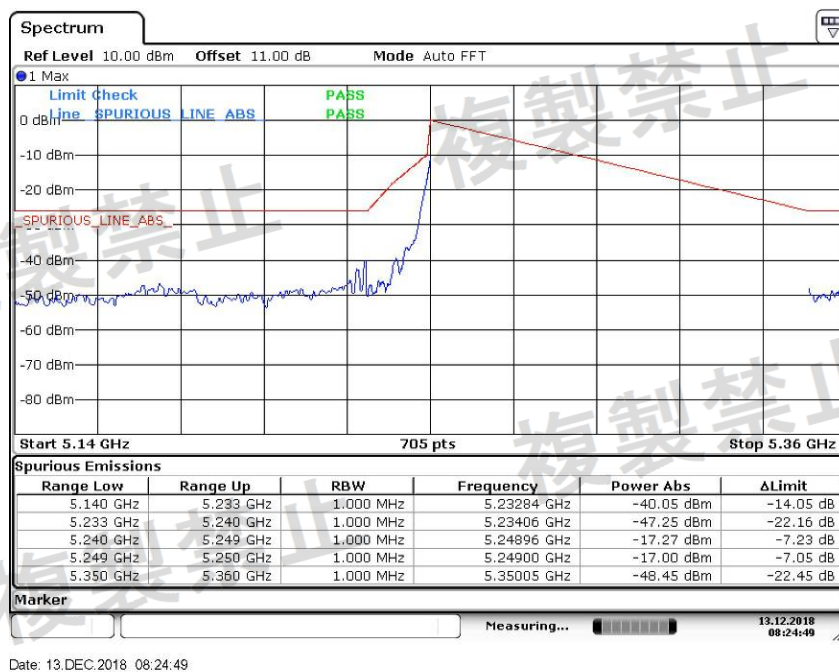
Band	Mode	Frequency (MHz)	Test Result
W53	802.11ac (VHT80)	5290	PASS

TEST PLOTS

Model 802.11a
Test Frequency 5260MHz

Test Voltage
Test Result

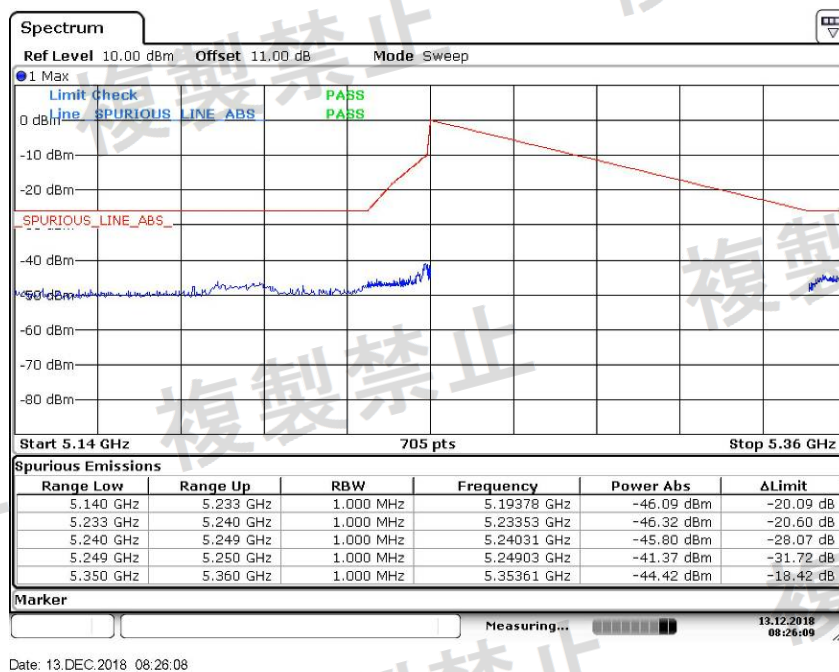
Normal voltage
Pass



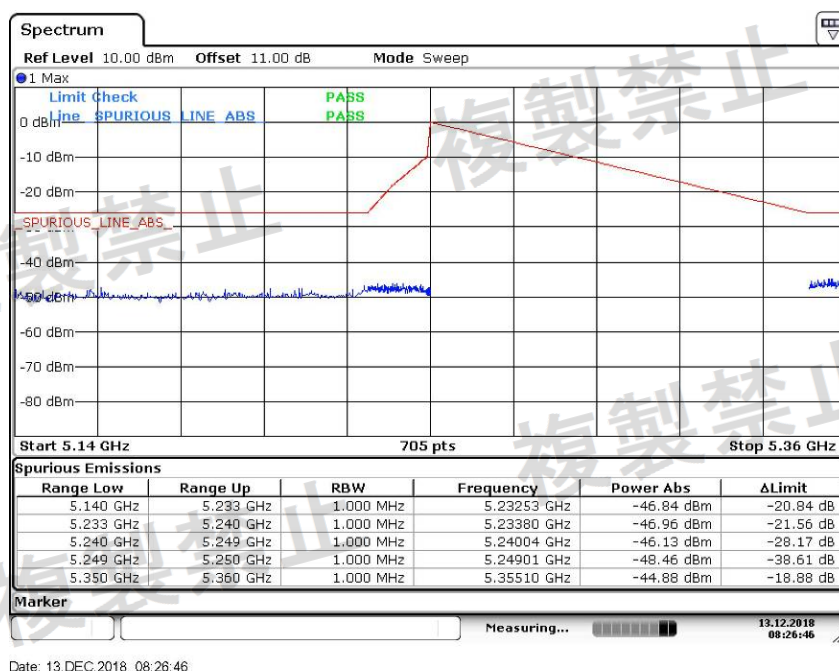
Model 802.11a
Test Frequency 5280MHz

Test Voltage
Test Result

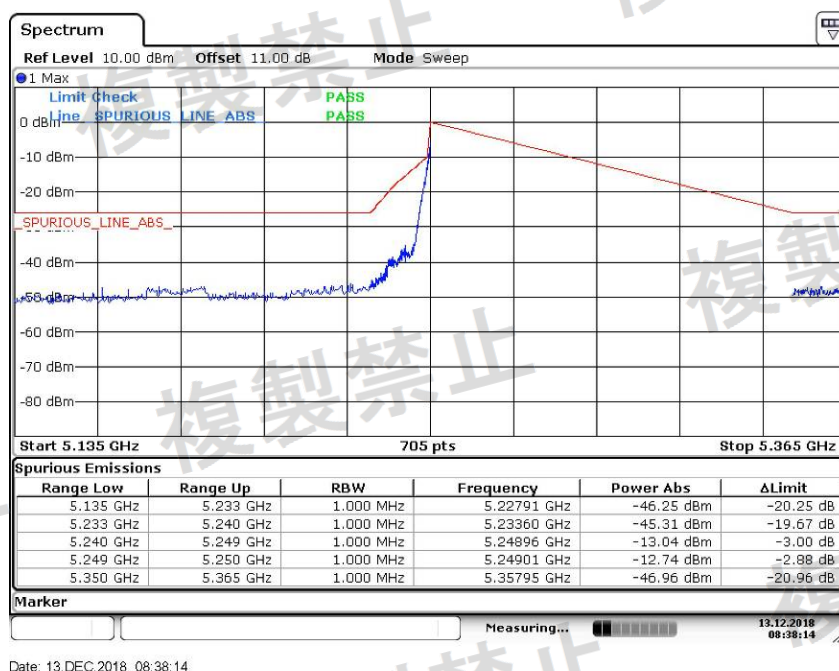
Normal voltage
Pass



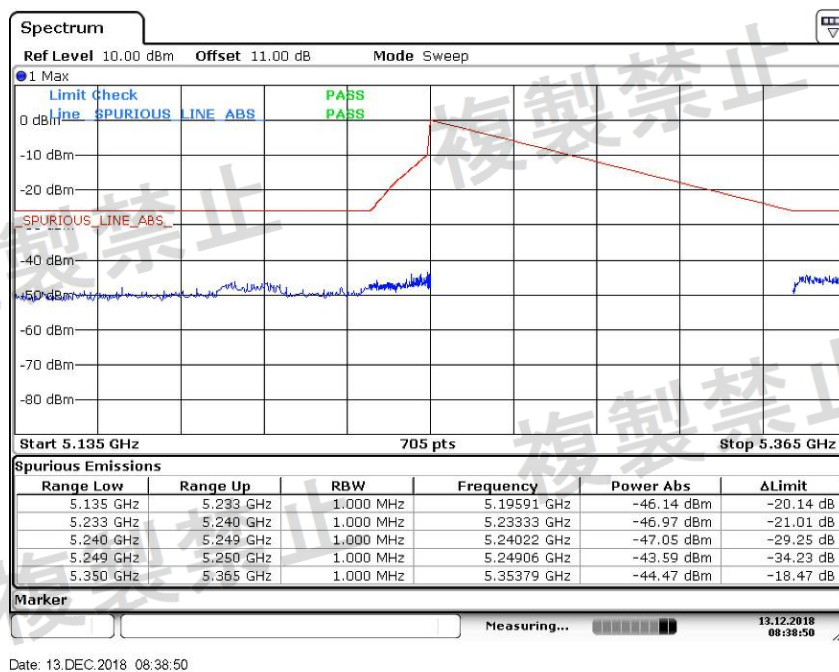
Model	802.11a	Test Voltage	Normal voltage
Test Frequency	5320MHz	Test Result	Pass



Model	802.11n(HT20)	Test Voltage	Normal voltage
Test Frequency	5260MHz	Test Result	Pass



Model	802.11n(HT20)	Test Voltage	Normal voltage
Test Frequency	5280MHz	Test Result	Pass



Model	802.11n(HT20)	Test Voltage	Normal voltage
Test Frequency	5320MHz	Test Result	Pass

