FCC ID	<b>TEST REP</b>		$(\dot{c})$		6
Test Report No:	TCT220224E028				
Date of issue	Mar. 08, 2022	<u>_</u> 1.			
Testing laboratory	SHENZHEN TONGCE T			$\overline{\langle o \rangle}$	
Testing location/ address:	TCT Testing Industrial Pa Street, Bao'an District Sh Republic of China	ark Fuqiao 5th			
Applicant's name::	QOMO, LLC				0
Address:	46950 Magellan Drive, L	ot4 Wixom, M	I48393, Un	ited States	
Manufacturer's name :	Beijing Mysher Technolo	gy Co., Ltd.		$(\mathbf{c})$	
Address:	Unit B306, Building #1, Iı Z-Park, HaiDian District,	Beijing, China	a (100193)		.e
Standard(s):	FCC CFR Title 47 Part 1 KDB 662911 D01 Multipl KDB 789033 D02 Gener v02r01	e Transmitter	Output v02	2r01	
Product Name::	4K Wireless Document C	Camera			
Trade Mark:	QOMO	S.		S.	
Model/Type reference :	QPC100W				
Rating(s):	Rechargeable Li-ion Batt	tery DC 3.7V			(
Date of receipt of test item	Feb. 24, 2022				0
Date (s) of performance of test:	Feb. 24, 2022 ~ Mar. 08,	2022			
Tested by (+signature) :	Brews XU	for	yns 💹	UNGCE	
Check by (+signature) :	Beryl ZHAO	Bo	y man	TCT	
Approved by (+signature):	Tomsin	101	nsm 4	s gat	
<b>General disclaimer:</b> This report shall not be repr TONGCE TESTING LAB. Th TESTING LAB personnel on test results in the report only	his document may be alte ly, and shall be noted in t	red or revised he revision se	by SHEN	ZHEN TON	GC

		TARI	E OF CO	NTENTO	керог	t No.: TCT22022	4EU20
		IADL	<u></u>	<u>NTENTS</u>			
•	General Product						•••••
	1.1. EUT descriptio						
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## **1. General Product Information**

## 1.1. EUT description

			X
Product Name:	4K Wireless Document Camera	a	
Model/Type reference:	QPC100W		
Sample Number:	TCT220224E027-0101		
Operation Frequency:	Band 1: 5180 MHz~5240 MHz		
Channel Bandwidth:	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz, 80M	1Hz	<i>C</i>
Modulation Technology:	Orthogonal Frequency Division	Multiplexing(OFDM)	
Modulation Type:	256QAM, 64QAM, 16QAM, BP	SK, QPSK	
Antenna Type:	Internal Antenna		
Antenna Gain:	2dBi	$\left( \mathcal{C}^{\prime}\right)$	, c
Rating(s):	Rechargeable Li-ion Battery DC	C 3.7V	Ċ
Niele The sector of the line of the data of			

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

## 1.2. Model(s) list

None.

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## **1.3. Test Frequency**

#### Band 1

	•	<b>C</b> . <b>)</b>		$(\mathbf{C},\mathbf{C})$			
	20N	20MHz 40MHz				MHz	
	Channel	Frequency	Channel	Frequency	Channel	Frequency	
	36	5180	38	5190	42	5210	
(	40	5200	46	5230			
	48	5240					

#### Note:

In section 15.31(*m*), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

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# 2. Test Result Summary

CT 通测检测 TESTING CENTRE TECHNOLOGY

Requirement	CFR 47 Section	Result	
Antenna requirement	§15.203	PASS	
AC Power Line Conducted Emission	§15.207	PASS	
Maximum Conducted Output Power	§15.407(a)	PASS	6
6dB Emission Bandwidth	§15.407(a)	PASS	
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	PASS	
Power Spectral Density	§15.407(a)	PASS	
Restricted Bands around fundamental frequency	§15.407(b)	PASS	
Radiated Emission	§15.407(b)	PASS	
Frequency Stability	§15.407(g)	PASS	
		1.0.1	

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

5.For the band 5.15-5.25GHz,EUT meet the requirements of 15.407(a)(ii).

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General Information	on and a second s
. Test environment and	d mode
Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Software:	
Software Information:	SecureCRSecureFX_x64
Power Level:	36
Fest Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery.
During the test, each emissic working, investigated all open considered typical configurat cables, rotating the turntable	n/1.5m for blow/above 1GHz above the ground plane of in both horizontal and vertical polarities were performed. on was maximized by: having the EUT continuously rating modes, rotated about all 3 axis (X, Y & Z) and ion to obtain worst position, manipulating interconnecting , varying antenna height from 1m to 4m in both horizontal be emissions worst-case are shown in Test Results of the
During the test, each emissic working, investigated all open considered typical configurat cables, rotating the turntable	in both horizontal and vertical polarities were performed. on was maximized by: having the EUT continuously rating modes, rotated about all 3 axis (X, Y & Z) and ion to obtain worst position, manipulating interconnecting
During the test, each emissic working, investigated all open considered typical configurat cables, rotating the turntable and vertical polarizations. Th ollowing pages. We have verified the constru	in both horizontal and vertical polarities were performed. on was maximized by: having the EUT continuously rating modes, rotated about all 3 axis (X, Y & Z) and ion to obtain worst position, manipulating interconnecting , varying antenna height from 1m to 4m in both horizontal e emissions worst-case are shown in Test Results of the ction and function in typical operation. All the test modes T in transmitting operation, which was shown in this test
During the test, each emissic working, investigated all oper considered typical configurat cables, rotating the turntable and vertical polarizations. Th ollowing pages. We have verified the constru- vere carried out with the EU report and defined as follows	in both horizontal and vertical polarities were performed. on was maximized by: having the EUT continuously rating modes, rotated about all 3 axis (X, Y & Z) and ion to obtain worst position, manipulating interconnecting , varying antenna height from 1m to 4m in both horizontal e emissions worst-case are shown in Test Results of the ction and function in typical operation. All the test modes T in transmitting operation, which was shown in this test
During the test, each emissic working, investigated all oper considered typical configurat cables, rotating the turntable and vertical polarizations. The ollowing pages. We have verified the constru- vere carried out with the EU report and defined as follows Per-scan all kind of data rate	in both horizontal and vertical polarities were performed. on was maximized by: having the EUT continuously rating modes, rotated about all 3 axis (X, Y & Z) and ion to obtain worst position, manipulating interconnecting , varying antenna height from 1m to 4m in both horizontal be emissions worst-case are shown in Test Results of the ction and function in typical operation. All the test modes T in transmitting operation, which was shown in this test
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During the test, each emissic working, investigated all oper considered typical configurat cables, rotating the turntable and vertical polarizations. The ollowing pages. We have verified the constru- vere carried out with the EU report and defined as follows Per-scan all kind of data rations was worst case.	in both horizontal and vertical polarities were performed. on was maximized by: having the EUT continuously rating modes, rotated about all 3 axis (X, Y & Z) and ion to obtain worst position, manipulating interconnecting , varying antenna height from 1m to 4m in both horizontal ne emissions worst-case are shown in Test Results of the ction and function in typical operation. All the test modes T in transmitting operation, which was shown in this test te in lowest channel, and found the follow list which it Data rate
During the test, each emission working, investigated all oper considered typical configurat cables, rotating the turntable and vertical polarizations. The ollowing pages. We have verified the constru- vere carried out with the EU report and defined as follows Per-scan all kind of data ran was worst case. Mode 802.11a(SISO)	in both horizontal and vertical polarities were performed. on was maximized by: having the EUT continuously rating modes, rotated about all 3 axis (X, Y & Z) and ion to obtain worst position, manipulating interconnecting , varying antenna height from 1m to 4m in both horizontal e emissions worst-case are shown in Test Results of the ction and function in typical operation. All the test modes T in transmitting operation, which was shown in this test te in lowest channel, and found the follow list which it Data rate 6 Mbps
During the test, each emission working, investigated all oper considered typical configurat cables, rotating the turntable and vertical polarizations. The ollowing pages. We have verified the constru- vere carried out with the EU report and defined as follows Per-scan all kind of data ran was worst case. Mode 802.11a(SISO) 802.11n(HT20) (MIMO)	in both horizontal and vertical polarities were performed. on was maximized by: having the EUT continuously rating modes, rotated about all 3 axis (X, Y & Z) and iton to obtain worst position, manipulating interconnecting , varying antenna height from 1m to 4m in both horizontal he emissions worst-case are shown in Test Results of the ction and function in typical operation. All the test modes T in transmitting operation, which was shown in this test ction <b>and function in typical operation</b> in this test te in lowest channel, and found the follow list which it Data rate 6 Mbps 6.5 Mbps
During the test, each emission working, investigated all oper considered typical configurat cables, rotating the turntable and vertical polarizations. The ollowing pages. We have verified the constru- were carried out with the EU report and defined as follows Per-scan all kind of data ran was worst case. Mode 802.11a(SISO) 802.11n(HT20) (MIMO) 802.11n(HT40) (MIMO)	in both horizontal and vertical polarities were performed. on was maximized by: having the EUT continuously rating modes, rotated about all 3 axis (X, Y & Z) and ion to obtain worst position, manipulating interconnecting , varying antenna height from 1m to 4m in both horizontal ne emissions worst-case are shown in Test Results of the ction and function in typical operation. All the test modes T in transmitting operation, which was shown in this test te in lowest channel, and found the follow list which it Data rate 6 Mbps 6.5 Mbps 13.5 Mbps

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## 3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	JD-050200	2012010907576735	/	1

#### Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

#### Report No.: TCT220224E028

#### **Facilities and Accreditations** 4.

### 4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098 SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

 IC - Registration No.: 10668A-1 SHENZHEN TONGCE TESTING LAB CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

## 4.2. Location

SHENZHEN TONGCE TESTING LAB

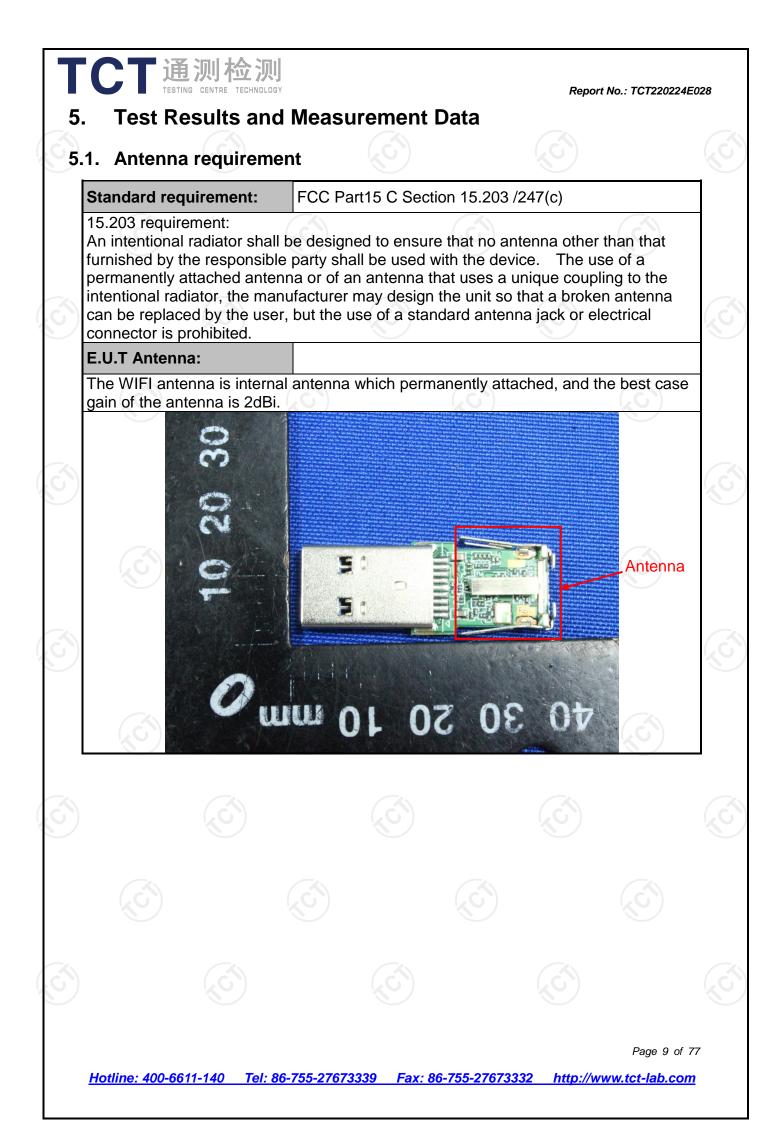
Address: TCT Testing Industrial Park Fugiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

## 4.3. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU	
1	Conducted Emission	± 3.10 dB	
2	RF power, conducted	± 0.12 dB	
3	Spurious emissions, conducted	± 0.11 dB	
4	All emissions, radiated(<1 GHz)	± 4.56 dB	
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB	
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB	S



2. Conducted Emissi 2.1. Test Specification	on		
Test Requirement:	FCC Part15 C Section	15.207	
Fest Method:	ANSI C63.10:2013	$\langle \zeta \rangle$	$\left( \mathcal{C}^{\prime}\right)$
Frequency Range:	150 kHz to 30 MHz		
Receiver setup:	RBW=9 kHz, VBW=30	) kHz, Sweep time	=auto
₋imits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (o Quasi-peak 66 to 56* 56 60	dBuV) Average 56 to 46* 46 50
	Referenc	e Plane	
Гest Setup:	40cm E.U.T AC powe Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Na Test table height=0.8m	EMI Receiver	— AC power
Fest Mode:	Charging + Transmittir	ng Mode	
Гest Procedure:	<ol> <li>The E.U.T and simulation power through a line (L.I.S.N.). This predimpedance for the minimpedance for the minimpedance for the power through a Line coupling impedance refer to the block photographs).</li> <li>Both sides of A.C. conducted interferent emission, the relative the interface cables</li> </ol>	e impedance stab ovides a 500hm neasuring equipme ces are also conne ISN that provides with 500hm term diagram of the line are checke nce. In order to fir	ilization network /50uH coupling ent. ected to the main a 50ohm/50uH nination. (Please test setup and d for maximum nd the maximum ipment and all of
	ANSI C63.10: 2013		asurement.

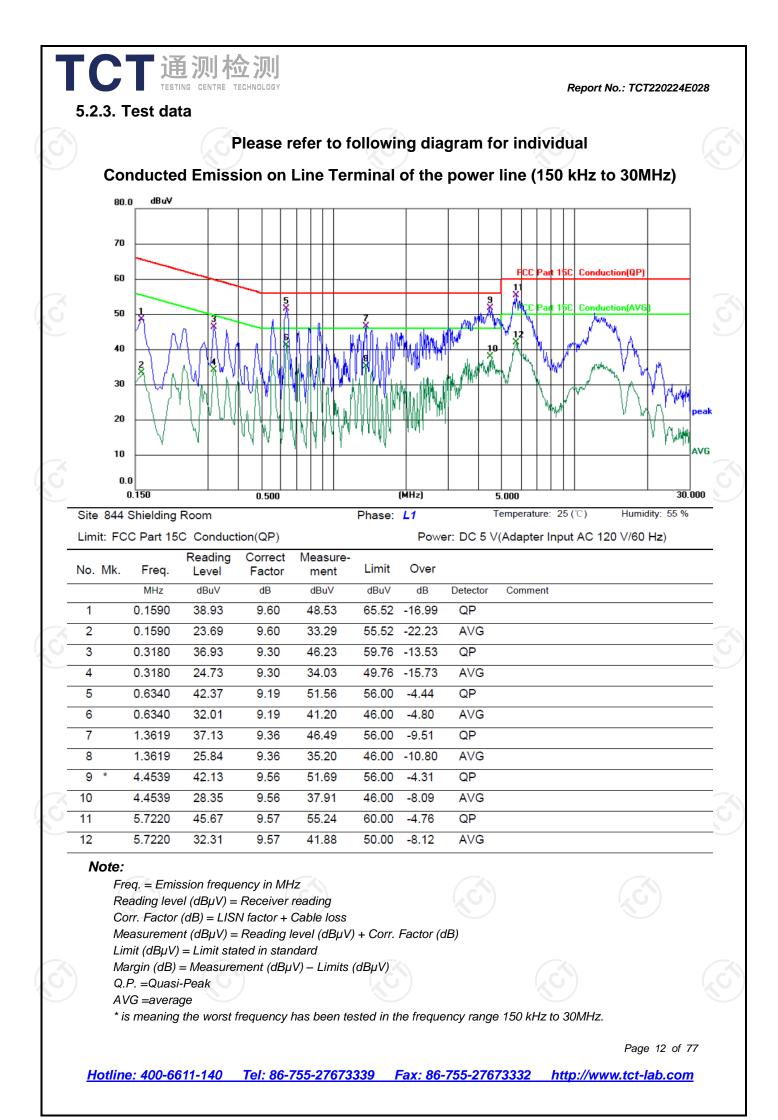
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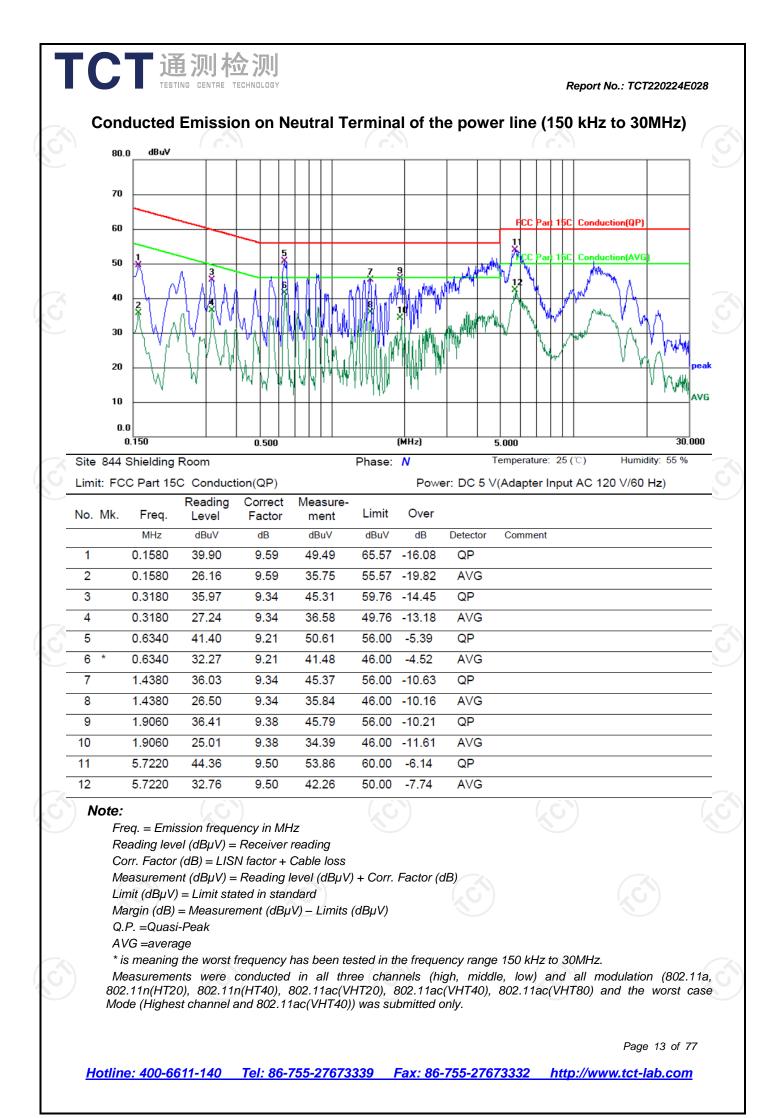
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#### 5.2.2. Test Instruments

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Equipme	ent	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Re	ceiver	R&S	ESCI3	100898	Jul. 07, 2022
Line Imped Stabilisat Newtork(L	ion	Schwarzbeck	NSLK 8126	8126453	Mar. 11, 2022
Line-5	No.	тст	CE-05	N/A	Jul. 07, 2022
EMI Test So	ftware	Shurple Technology	EZ-EMC	N/A	N/A
		(C)	1	S	(C)





FCC Part15 E Section 15.407(a)& Part 2 J Section

KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New

24dBm(250mW) for client device

Limit

5.3. Maximum Conducted Output Power

2.1046

(MHz)

5180 - 5240

Rules v02r01 Section E

Frequency Band

#### 5.3.1. Test Specification

**Test Requirement:** 

**Test Method:** 

TCT通测检测 TEGTING CENTRE TECHNOLOGY

Report No.: TCT220224E028

#### 5.3.2. Test Instruments

TCT通测检测 TESTING CENTRE TECHNOLOGY

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Power Meter	Agilent	E4418B	GB43312526	Jul. 07, 2022
Power Sensor	Agilent	E9301A	MY41497725	Jul. 07, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022

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4. 6dB Emission Band .4.1. Test Specification	width
Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	Spectrum Analyzer
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS

### 5.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022

# 5.5. 26dB Bandwidth and 99% Occupied Bandwidth

### 5.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Limit:	No restriction limits
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW. Set the Video bandwidth (VBW) = 3 *RBW. In order to make an accurate measurement.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS

#### 5.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022



Report No.: TCT220224E028

## 5.6. Power Spectral Density

5.6.1. Test Specification		
Test Requirement:	FCC Part15 E Section 15.4	407 (a)
Test Method:	KDB662911 D01 Multiple T KDB789033 D02 General L Rules v02r01 Section F	
Limit:	device) ≤11.00dBm/MHz for Band 2 5725 ≤30.00dBm/500KHz for Ba	nd 3 5725MHz-5850MHz for Band 1 5150MHz – 5250
Test Setup:	Spectrum Analyzer	EUT
Test Mode:	Transmitting mode with mo	dulation
Test Procedure:	<ul> <li>time = Auto, Detector = RM</li> <li>2. Allow the sweeps to cont</li> <li>3. Use the peak marker fun maximum amplitude level.</li> <li>4. The E.I.R.P spectral den method. At a test site that h procedures of ANSI C63.4</li> </ul>	andwidth. Hz, VBW ≥ 3*RBW, Sweep IS. tinue until the trace stabilizes. action to determine the
Test Result:	PASS	) (¿G`)

#### 5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022
	KO J			

Report No.: TCT220224E028 5.7. Band edge 5.7.1. Test Specification **Test Requirement:** FCC CFR47 Part 15E Section 15.407 **Test Method:** ANSI C63.10 2013 In un-restricted band: For Band 1&2A&2C: -27dBm/MHz For Band 3: Frequency Limit Frequency Limit (MHz) (dBm/MHz) (MHz) (dBm/MHz) -27 5850~5855 27~15.6 < 5650 5650~5700 -27~10 5855~5875 15.6~10 Limit: 5700~5720 10~15.6 5875~5925 10~-27 5720~5725 15.6~27 > 5925 -27  $E[dB\mu V/m] = EIRP[dBm] + 95.2$  @3m In restricted band: Detector Limit@3m Peak 74dBuV/m AVG 54dBµV/m **Test Setup:** Test Receiv Test Mode: Transmitting mode with modulation 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum **Test Procedure:** value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold

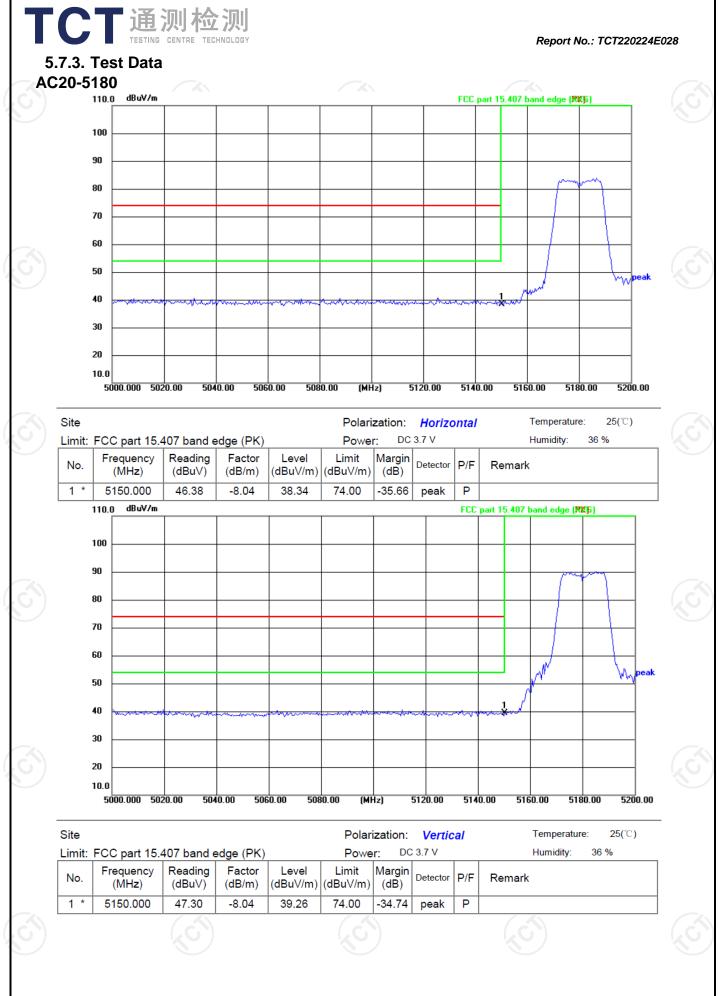
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	est Result:	NG CENTRE TECHNOLO	10dB lo stopped reporte 10dB n quasipe	d and the pe ed. Otherwise	e limit speci eak values o e the emissi d be re-teste age method	UT in peak ified, then te of the EUT w ions that did ed one by on	esting could b vould be I not have ne using peak	e
5)		Ś						

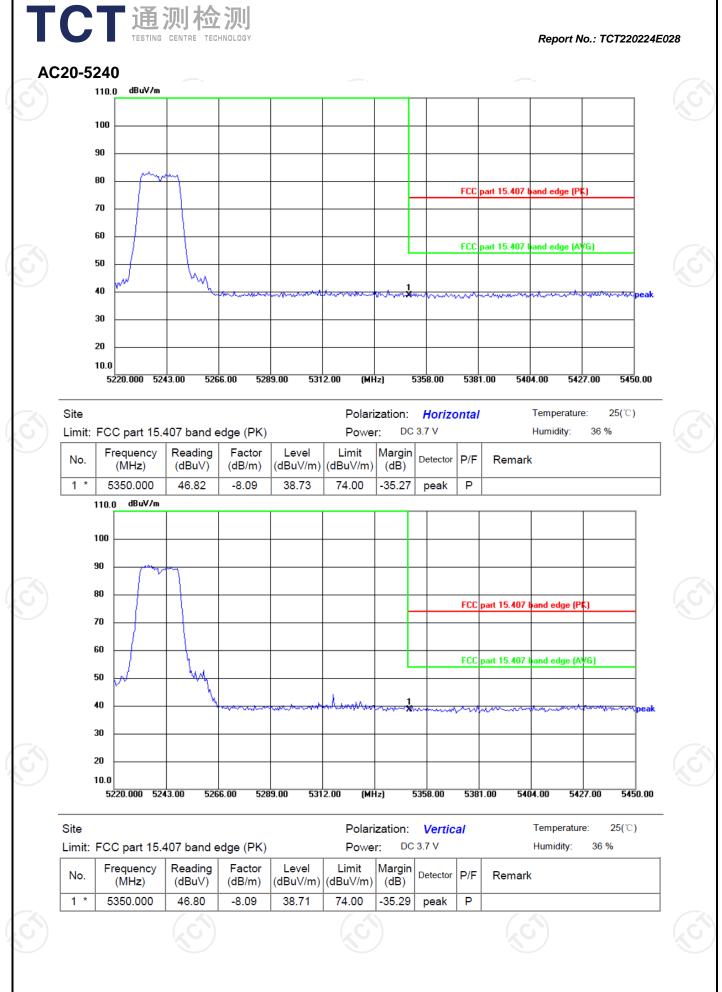
### 5.7.2. Test Instruments

	Radiated Er	nission Test Sit	e (966)		
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
EMI Test Receiver	R&S	ESIB7	100197	Jul. 07, 2022	
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022	
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022	
Pre-amplifier	SKET	LNPA_0118G- 45	SK202101210 2	Mar. 11, 2022	
Pre-amplifier	SKET	LNPA_1840G- 50	SK202109203 500	Apr. 08, 2022	
Pre-amplifier	HP	8447D	2727A05017	Jul. 07, 2022	
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022	
Broadband Antenna	Schwarzbeck	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022	
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023	
Coaxial cable	SKET	RC_DC18G-N	N/A	Apr. 08, 2022	
Coaxial cable	SKET	RC-DC18G-N	N/A	Apr. 08, 2022	
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022	
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	

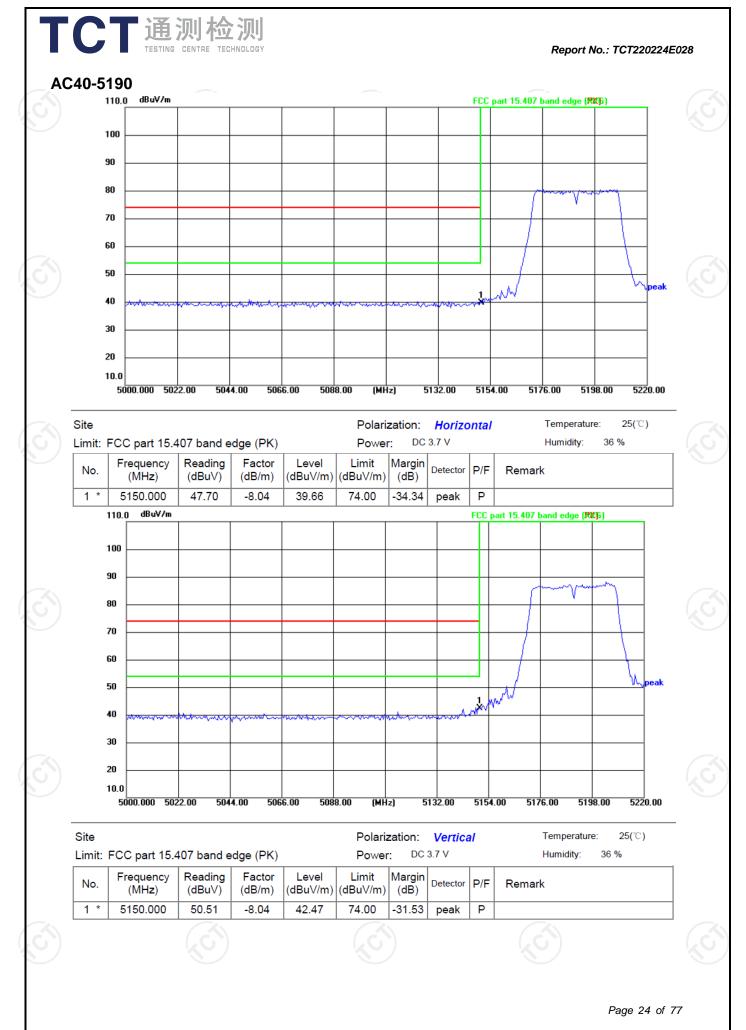
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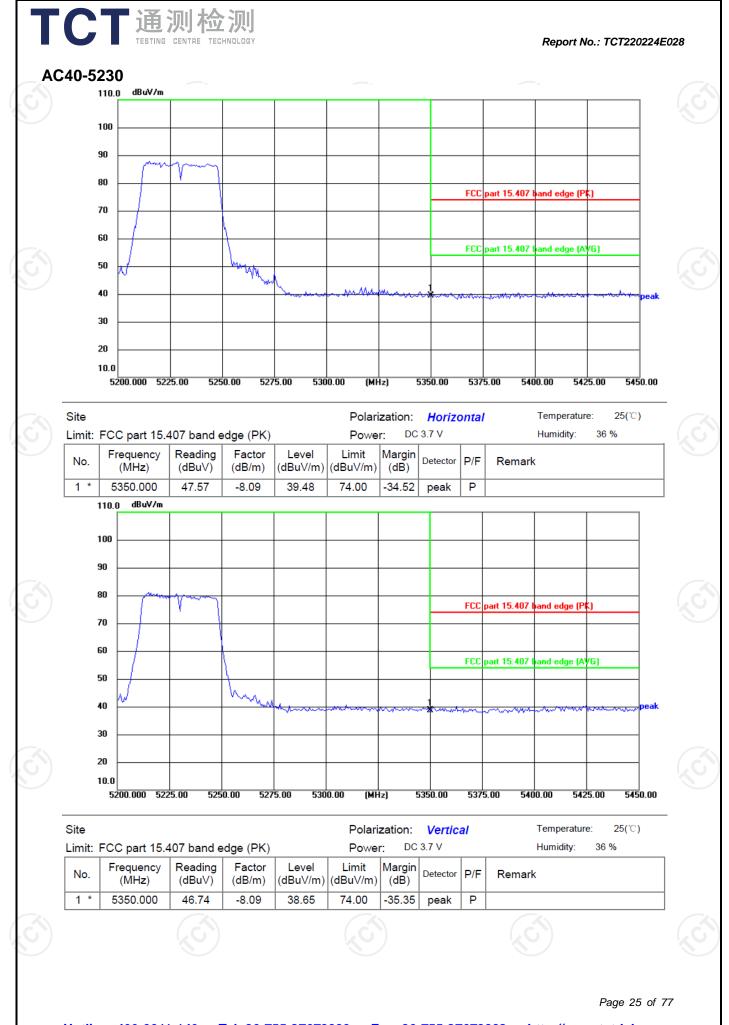


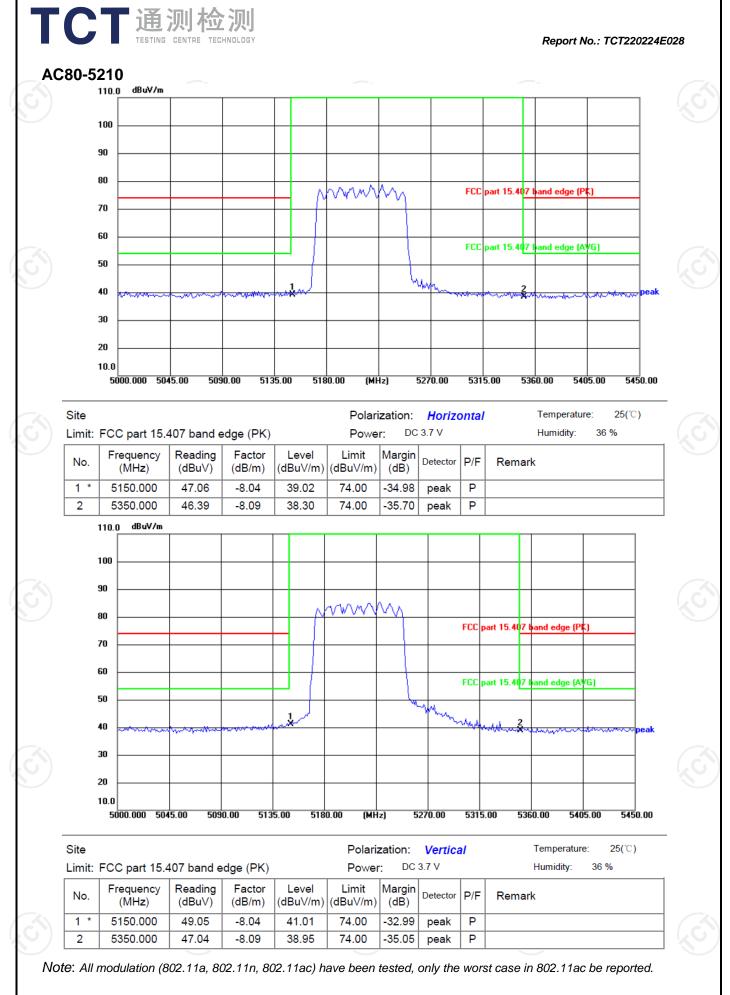
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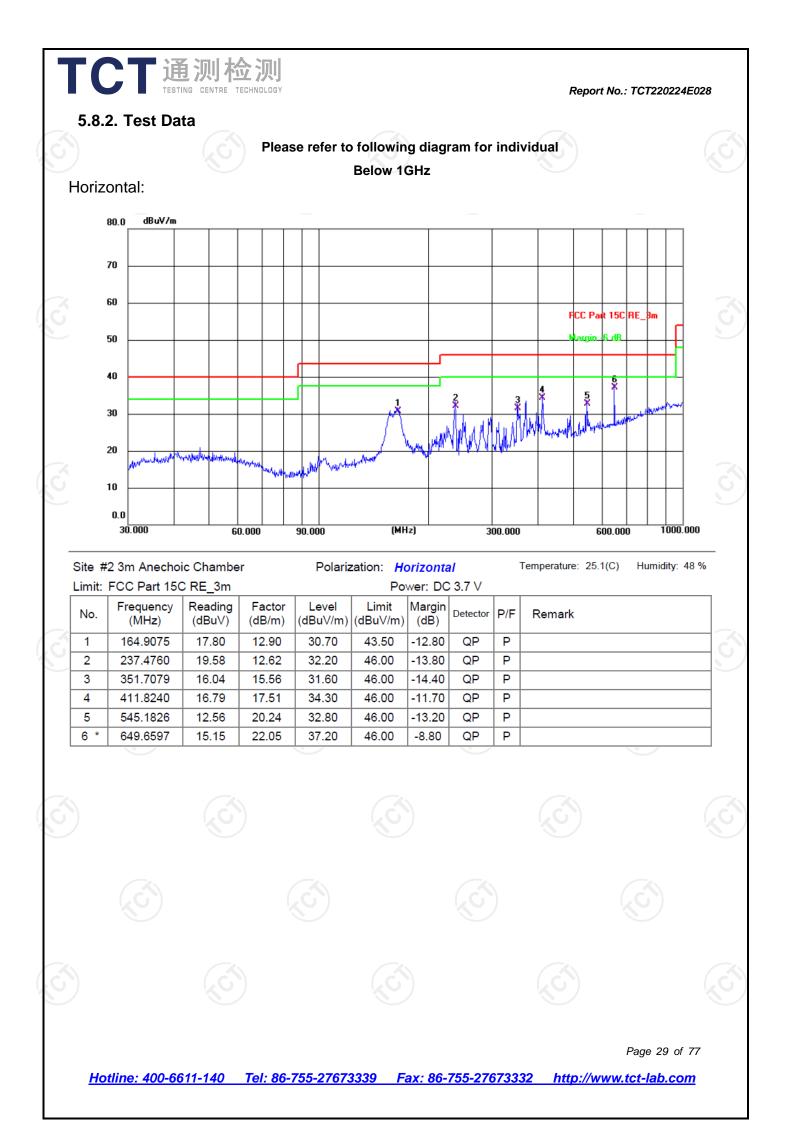
Report No.: TCT220224E028

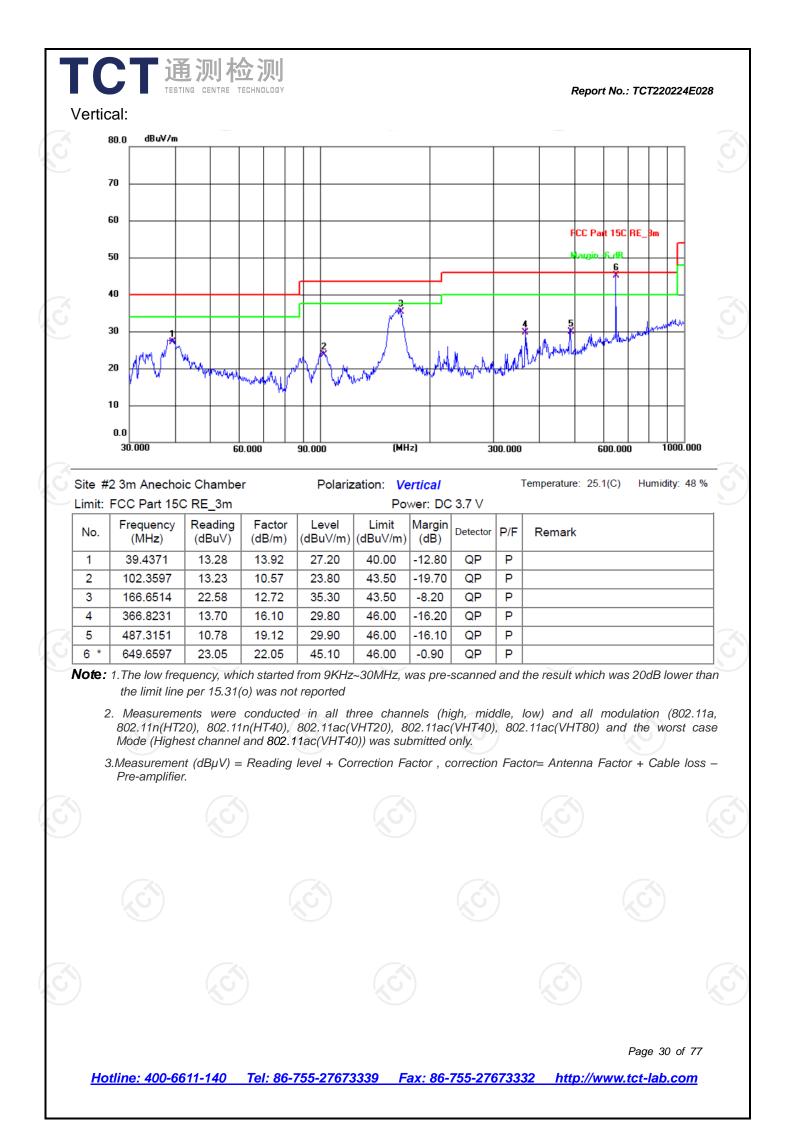
# 5.8. Unwanted Emissions

Test Requirement:	FCC CFR47	Part 15 S	Section 15.	407 & 1	5.209 & 15.205		
Test Method:	KDB 789033	D02 v02	r01				
Frequency Range:	9kHz to 40G	Hz	6				
Measurement Distance:	3 m						
Antenna Polarization:		Vertical					
			h modulot	ion			
Operation mode:	30MHz       30MHz       300KHz       Quasi-peak       120KHz       300KHz       Quasi-peak Value         Above 1GHz       Peak       1MHz       3MHz       Peak Value         Above 1GHz       Peak       1MHz       30Hz       Peak Value         Unwanted spurious emissions fallen in restricted band per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 at below table,       11 restricted bands:         In restricted bands:       Frequency       Detector       Limit@3m         Above 1G       Peak       74dBµV/m         Above 1G       Field Strength       Measurement						
Receiver Setup:	150kHz-				Quasi-peak Value Quasi-peak Value		
		Quasi-peak	120KHz	300KHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	10Hz	Average Value		
Limit:	Frequency         Field Str (microver)           0.009-0.490         2400/F(1)           0.490-1.705         24000/F(1)           1.705-30         30           30-88         100           88-216         150			n eter)	54dBµV/m Measurement Distance (meters) 300 3 30 30 3 3 3		
		/					
	For radiated	emissions			Computer		
Test setup:	EUT						
Test setup:	30MHz to 1G	Gro					

	Report No.: TCT220224E02
	Antenna Tower EUT Antenna Hum Antenna RF T est Receiver Ground Plane
	Above 1GHz
	Horn Anlanna Horn Anlanna Antenna Tower Horn Anlanna (Turrtable) Ground Reference Plane Test Receiver Controller
	1. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation.
Test Procedure:	<ol> <li>The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet.</li> </ol>
Test results:	PASS

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	TESTING	CENTRE TECH	NOLOGY				Rep	ort No.: TCT22	20224E028
			N	Adulation 7	Tupo: Bond	1			
			IV		Type: Band : 5180MHz	1			
		Peak		Correction		on Level	De als lins it		N /
requency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10360	Н	38.06		8.02	46.08		74	54	-7.92
15540	H	38.88		9.87	48.75		74	54	-5.25
	67								
10360	V	36.72		8.02	44.74		74	54	-9.26
15540	V	39.36		9.87	49.23		74	54	-4.77
	V				 : 5200MHz				
_		Peak		Corroction		on Level			
requency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10400	Н	40.31		7.97	48.28		74	54	-5.72
15600	H	38.26		9.83	48.09	<u> </u>	74	54	-5.91
(	<u>CH</u>		<u> </u>		(				
10400	V	40.07		7.97	48.04		74	54	-5.96
15600	V	37.52		9.83	47.35		74	54	-6.65
<u> </u>	V			(	X				
					5240MHz				
requency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10480	Н	37.94		7.97	45.91		74	54	-8.09
15720	Н	38.38		9.83	48.21		74	54	-5.79
	CH_					<u> </u>			
10480	V	38.89		7.97	46.86		74	54	-7.14
15720	V	36.63		9.83	46.46		74	54	-7.54
<u> </u>	V			(	X				
		Deal	11		136: 5180M				
requency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margir (dB)
10360	H	41.32		8.02	49.34		74	54	-4.66
15540		37.50		9.87	47.37	. C	74	54	-6.63
	н					<u> </u>			
10360	V	41.37		8.02	49.39		74	54	-4.61
15540	V	38.64		9.87	48.51		74	54	-5.49
	V						( <del></del> )		(
		Deck		Correction	140: 5200M				
requency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10400	H	41.29		7.97	49.26	,	74	54	-4.74
15600	<u>GH</u>	37.87	- <del>T</del>	9.83	47.70	<u> </u>	74	54	-6.30
	H								
10400	V	41.12		7.97	49.09		74	54	-4.91
15600	V	38.09		9.83	47.92		74	54	-6.08
	V			( . (	· · · ·				(
			11	n(HT20) CH	148· 5240M				

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_		TESTING	CENTRE TECHI	NOLOGY				Repo	ort No.: TCT22	0224E028
Frequ	Jency	Ant. Pol.	Peak	AV reading	Correction	Emissio		Peak limit	AV limit	Margin
(Mł		H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
104	480	Н	40.77		7.97	48.74		74	54	-5.26
157	720	Н	39.02		9.83	48.85		74	54	-5.15
		H								
104	180	V	40.31		7.97	48.28		74	54	-5.72
		V								
157		V	39.56		9.83	49.39		74	54 	-4.61
	h	<u> </u>		11	n(HT40) CF		Hz			
		Ant Dal	Peak		Correction		on Level	Deels limit		Marain
	uency Hz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
103	380	Н	40.07		7.75	47.82		74	54	-6.18
	570	Н	37.32		9.87	47.19		74	54	-6.81
		H								
4.00	200 1		40.07		775	40.00		7 4	EA.	E 00
	380	V	40.27		7.75	48.02	<u></u>	74	54	-5.98
155	570	V	38.01		9.87	47.88	-4-	74	54	-6.12
		V								
				11	, ,	146: 5230M		-	r r	
Freat	uency	Ant. Pol.	Peak	AV reading	Correction		on Level	Peak limit	AV limit	Margin
	Hz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
104	460	Н	41.12		7.97	49.09		74	54	-4.91
156	690	Н	37.67		9.83	47.50		74	54	-6.50
		Н								
								•		
104	460	V	40.61		7.97	48.58		74	54	-5.42
156	690	V	37.93		9.83	47.76		74	54	-6.24
		V								
					· /	CH36: 5180I	MHz			
Freat	uency	Ant. Pol.	Peak	AV reading	Correction	Emissic	on Level	Peak limit	AV limit	Margin
i i cqu	Hz)	H/V	reading (dBµV)	(dBµV)	Factor	Peak	AV (dDu)//m)	(dBµV/m)	(dBµV/m)	(dB)
(MI					(dB/m)	(dBµV/m)	(dBµV/m)			
(MI	360	Н	41.30		(db/m) 8.02	(dBµV/m) 49.32	(ubµv/m) 	74	54	-4.68
(MI 103	360 540	Н			· · ·			74 74	54 54	-4.68 -6.34
(MI 103			41.30		8.02	49.32				
(MI 103 155	540 	H H	41.30 37.79 		8.02 9.87 	49.32 47.66 		74 	54	-6.34 
(MI 103 155 	540  360	H H V	41.30 37.79  38.46		8.02 9.87  8.02	49.32 47.66  46.48		74  74	54  54	-6.34  -7.52
(MI 103 155 	540 	H H V V	41.30 37.79 		8.02 9.87 	49.32 47.66 		74  74 74	54  54 54	-6.34  -7.52 -5.55
(MI 103 155 	540  360	H H V	41.30 37.79  38.46		8.02 9.87  8.02 9.87 	49.32 47.66  46.48 48.45 		74  74	54  54	-6.34  -7.52
(MI 103 155 	540  360	H H V V	41.30 37.79  38.46 38.58 	   11ac	8.02 9.87  8.02 9.87  c(VHT20) C	49.32 47.66  46.48 48.45  CH40: 52001	    MHz	74  74 74	54  54 54 	-6.34  -7.52 -5.55 
(MI 103 155  103 155  Frequ	540  360	H H V V	41.30 37.79  38.46 38.58  Peak reading		8.02 9.87  8.02 9.87  c(VHT20) C Correction Factor	49.32 47.66  46.48 48.45  CH40: 52001 Emissio Peak	    MHz on Level AV	74  74 74	54  54 54	-6.34  -7.52 -5.55
(MI 103 155 103 155  Frequ (MI	540  360 540  uency Hz)	H H V V V Ant. Pol. H/V	41.30 37.79  38.46 38.58  Peak reading (dBμV)	   11ac AV reading (dBµV)	8.02 9.87  8.02 9.87  c(VHT20) C Correction Factor (dB/m)	49.32 47.66  46.48 48.45  CH40: 52001 Emissic Peak (dBµV/m)	   MHz on Level AV (dBµV/m)	74  74 74  Peak limit (dBµV/m)	54  54 54  AV limit (dBµV/m)	-6.34  -7.52 -5.55  Margin (dB)
(MI 103 155  103 155  Frequ (MI 104	540  360 540  uency Hz) 400	H H V V V Ant. Pol. H/V	41.30 37.79  38.46 38.58  Peak reading (dBμV) 39.96	   11ac AV reading (dBµV)	8.02 9.87  8.02 9.87  c(VHT20) C Correction Factor (dB/m) 7.97	49.32 47.66  46.48 48.45  CH40: 52001 Emissic Peak (dBµV/m) 47.93	   MHz on Level AV (dBµV/m) 	74  74 74  Peak limit (dBµV/m) 74	54  54 54  (dBµV/m) 54	-6.34  -7.52 -5.55  Margin (dB) -6.07
(MI 103 155  103 155  Frequ (MI 104	540  360 540  uency Hz)	H H V V V Ant. Pol. H/V H H	41.30 37.79  38.46 38.58  Peak reading (dBµV) 39.96 39.11	   11ac AV reading (dBµV) 	8.02 9.87  8.02 9.87  c(VHT20) C Correction Factor (dB/m)	49.32 47.66  46.48 48.45  CH40: 52001 Emissic Peak (dBµV/m)	   MHz on Level AV (dBµV/m) 	74  74 74  Peak limit (dBµV/m) 74 74	54  54 54  AV limit (dBµV/m)	-6.34  -7.52 -5.55  Margin (dB) -6.07 -5.06
(MI 103 155  103 155  Frequ (MI 104	540  360 540  uency Hz) 400	H H V V V Ant. Pol. H/V	41.30 37.79  38.46 38.58  Peak reading (dBμV) 39.96	   11ac AV reading (dBµV)	8.02 9.87  8.02 9.87  c(VHT20) C Correction Factor (dB/m) 7.97	49.32 47.66  46.48 48.45  CH40: 52001 Emissic Peak (dBµV/m) 47.93	   MHz on Level AV (dBµV/m) 	74  74 74  Peak limit (dBµV/m) 74	54  54 54  (dBµV/m) 54	-6.34  -7.52 -5.55  Margin (dB) -6.07
(MI 103 155 	540  360 540  Hz) 400 600 	H H V V V Ant. Pol. H/V H H	41.30 37.79  38.46 38.58  Peak reading (dBµV) 39.96 39.11 	  11ac AV reading (dBµV)  	8.02 9.87  8.02 9.87  c(VHT20) C Correction Factor (dB/m) 7.97 9.83 	49.32 47.66  46.48 48.45  CH40: 5200I Emissic Peak (dBμV/m) 47.93 48.94 	   MHz on Level AV (dBµV/m)  	74  74 74  Peak limit (dBµV/m) 74 74 	54  54 54  (dBµV/m) 54 54 	-6.34  -7.52 -5.55  Margin (dB) -6.07 -5.06 
(MI 103 155 	540  360 540  Hz) 400 600  400	H H V V V Ant. Pol. H/V H H H	41.30 37.79  38.46 38.58  Peak reading (dBμV) 39.96 39.11  38.57	   11ac AV reading (dBµV)  	8.02 9.87  8.02 9.87  c(VHT20) C Correction Factor (dB/m) 7.97 9.83  7.97	49.32 47.66  46.48 48.45  CH40: 5200I Emissio Peak (dBμV/m) 47.93 48.94  46.54		74  74 74  Peak limit (dBµV/m) 74 74 74 74	54  54 54  (dBµV/m) 54 54  54	-6.34  -7.52 -5.55  Margin (dB) -6.07 -5.06  -7.46
(MI 103 155  103 155  (MI 104 156  104 156	540  360 540  Hz) 400 600 	H H V V V Ant. Pol. H/V H H	41.30 37.79  38.46 38.58  Peak reading (dBµV) 39.96 39.11 	  11ac AV reading (dBµV)  	8.02 9.87  8.02 9.87  c(VHT20) C Correction Factor (dB/m) 7.97 9.83 	49.32 47.66  46.48 48.45  CH40: 5200I Emissic Peak (dBμV/m) 47.93 48.94 	   MHz on Level AV (dBµV/m)  	74  74 74  Peak limit (dBµV/m) 74 74 	54  54 54  (dBµV/m) 54 54 	-6.34  -7.52 -5.55  Margin (dB) -6.07 -5.06 

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

TC	TESTING	CENTRE TECHI	NOLOGY				Repo	ort No.: TCT22	0224E028
			11a	c(VHT20) C	CH48: 5240	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading (dBµV)	Factor	Peak	on Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
40400		(dBµV)		(dB/m)	(dBµV/m)	(dBµV/m)	74	54	. ,
10480	<u> </u>	36.96		7.97	44.93		74	54	-9.07
15720	н Н	38.13		9.83	47.96		74	54	-6.04
					(				
10480	V	38.57		7.97	46.54		74	54	-7.46
15720	V	38.19		9.83	48.02		74	54	-7.48
	V			9.03	40.02				
	V					 MU-			
			11a	, ,	CH38: 5190				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10380	Н	40.38		7.75	48.13		74	54	-5.87
15570	Н	38.69		9.87	48.56		74	54	-5.44
(	Н		C		(	<u> </u>			
							•		
10380	V	38.97		7.75	46.72		74	54	-7.28
15570	V	38.24		9.87	48.11		74	54	-5.89
	V								
			11a	c(VHT40) C	CH46: 5230	MHz			
_		Peak		Correction		on Level			
Frequency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10460	Н	38.63		7.97	46.60	/	74	54	-7.40
15690	Н	38.44		9.83	48.27		74	54	-5.73
/	<u> H</u>		40)		/			40	
4							•		
10460	V	39.05		7.97	47.02		74	54	-6.98
15690	V	37.99		9.83	47.82		74	54	-6.18
	V				×				/
			1	1ac(VHT80	) CH42:521	0			
<b>-</b>		Peak		Correction	Emissio	on Level	De als linsit		Manain
Frequency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10420	A H	41.12		7.96	49.08	( <del></del>	74	54	-4.92
15630	.G H	39.97		9.84	49.81	<u>,G-</u>	74	54	-4.19
	H								
10420	V	41.47		7.96	49.43		74	54	-4.57
15630	V	38.55		9.84	48.39		74	54	-5.61
	V	( <del>.</del>		( (					(

#### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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	analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time
Test Procedure:	(approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	Pre-scan was performed at all models(11a,11n,11ac), the worst case (11ac) was found and test data was shown in this report.
Hotline: 400-6611-140 Tel: 86-	Page 34 of 77 755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

#### L:1:4 Л Л

TCT通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15 Section 15.407(g) &Part	t2 J Section 2.1055					
Test Method:	ANSI C63.10: 2013						
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supper voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at temperature of 20 degrees C.						
Test Setup:	Spectrum Analyzer E	UT					
Test Procedure:	The EUT was placed inside the chamber and powered by nominal Turn the EUT on and couple its ou analyzer. c. Turn the EUT off and set highest temperature specified. d. A (approximately 30 min) for the te chamber to stabilize. e. Repeat ste temperature chamber set to the low The test chamber was allowed to degree C for a minimum of 30 m voltage was then adjusted on the 115% and the frequency record.	AC/DC voltage. b. atput to a spectrum the chamber to the low sufficient time emperature of the p 2 and 3 with the vest temperature. f. o stabilize at +20 inutes. The supply					
Test Result:	PASS						
Test Result: Remark:	PASS Pre-scan was performed at all mode the worst case (11ac) was found and shown in this report.						

Report No.: TCT220224E028

#### Test plots as follows:

Test mode:	802.11ac	802.11ac(HT20)		ency(MHz):	5180
Temperature (°C)	Voltage(VDC)		irement icy(MHz)	Delta Frequency(H	z) Result
45		5180	.0091	9100	PASS
35		5180	.0065	6500	PASS
25		5179.		-12300	PASS
15	3.7V	5179	.9983	-1700	PASS
5		5180	.0038	3800	PASS
0		5180	.0049	4900	PASS
)	3.33V	5179	.9832	-16800	PASS
20	3.7V	5180	.0034	3400	PASS
	4.07V	5179	.9821	-17900	PASS

Test mode:	802.11ac(	HT20)	Freque	ency(MHz):		5200	
Temperature (°C)	Voltage(VDC)	Measurement		Delta		Result	
, ,	0 ( )	Frequen		Frequency(I	HZ)		
45		5200.	0097	9700		PASS	-
35		5200.	0082	8200		PASS	(.c
25	3.7V	5200.0076		7600		PASS	0
15	3.7 V	5200.	0044	4400		PASS	
5		5199.9982		-1800		PASS	
0		5199.	9873	-12700		PASS	
	3.33V	5199.	9955	-4500		PASS	
20	3.7V	5200.0036		3600		PASS	
	4.07V	5200.	0058	5800		PASS	
				C			6

Test mode:	802.11ac	HT20) Freque		ency(MHz):	5240	
Temperature (°C)	Voltage(VDC)	Measure		Delta	Result	
45		Frequenc		Frequency( 4500	PASS	
35		5240.0		2100	PASS	
25	0.7\/	5240.0	026	2600	PASS	
15	3.7V	5239.9	993	-700	PASS	
5		5239.9	985	-1500	PASS	
0	(xG))	5239.9	972	-2800	O PASS	
	3.33V	5240.0	038	3800	PASS	
20	3.7V	5240.0	019	1900	PASS	
	4.07V	5239.9	984	-1600	PASS	

<b>ICT</b> 通道	<b>则检测</b> CENTRE TECHNOLOGY				Report No.: TCT2202	224E028
Test mode:	802.11ac	(HT40)	Freque	ency(MHz):	5190	
Femperature (°C)	Voltage(VDC)		rement cy(MHz)	Delta Frequency(H	z) Resul	t
45		5190	.0128	12800	PASS	5
35		5190 5190		11200	PASS	5
25	0.71				PASS	5
15	3.7V G	5190	0.0034	3400	PASS	5
5		5190	.0066	6600	PASS	5
0		5190	.0077	7700	PASS	\$
	3.33V	5189	.9915	-8500	PASS	6
20	3.7V	5189	.9978	-2200	PASS	5
-	4.07V	5190	.0043	4300	PASS	5

Test mode:	node: 802.11ac(I		HT40) Frequency(MHz			5230		
Temperature (°C)	Vc	ltage(VDC)	Measu	rement	Delta		Result	
	vc	mage(VDO)	Frequen	cy(MHz)	Frequency(Hz)		Result	
45			5230.	.0113	11300		PASS	
35			5230.	.0122	12200	~	PASS	
25		3.7V	5230.	0095	9500	5)	PASS	
15		3.7 V	5229.	9984	-1600		PASS	
5			5229.	9982	-1800		PASS	
0			5230.	.0051	5100		PASS	
$(\mathbf{G})$		3.33V	5230.	.0048	4800		PASS	
20		3.7V	5230.	.0029	2900		PASS	
		4.07V	5229.	.9976	-2400		PASS	

Test mode:	802.11ac(\	/HT80)	IT80) Frequency(MHz):		5210
Temperature (°C)	Voltage(VDC)	Measurement		Delta	Result
	voltage(vDC)	Frequen	cy(MHz)	Frequency(H	lz)
45		5209.	9806	-19400	PASS
35		5209.	9842	-15800	PASS
25	3.7V	5210.	0044	4400	PASS
15	3.7 V	5210.	0031	3100	PASS
5		5210.	0025	2500	PASS
0		5210.	0063	6300	PASS
)	3.33V	5210.	0058	5800	PASS
20	3.7V	5209.	9987	-1300	PASS
	4.07V	5210.	0089	8900	PASS

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Report No.: TCT220224E028

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## **Appendix A: Test Result of Conducted Test Duty Cycle Duty Cycle** Frequency **Correction Factor** 1/T Condition Mode (MHz) (%) (dB) (kHz) NVNT 5180 100 0 а **NVNT** 5200 100 0 а **NVNT** 5240 100 0 а **NVNT** n20 5180 100 0 **NVNT** n20 5200 100 0 **NVNT** n20 5240 100 0 **NVNT** n40 5190 100 0 **NVNT** n40 5230 100 0 NVNT ac20 5180 100 0 NVNT ac20 5200 100 0 NVNT ac20 5240 100 0 **NVNT** ac40 5190 100 0 **NVNT** ac40 5230 100 0 **NVNT** ac80 5210 100 0

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	Test Graphs	Report No.: TC1	220224E
Keysight Spectrum Analyzer - Swept SA	Duty Cycle NVNT a 5180MHz		
Center Freq 5.1800000	SENSE:INT ALIGN AUTO	05:15:21 PM Mar 04, 2022 pe: Log-Pwr TRACE 12:3:4:5:6 TYPE WWWWW DET P MINN N	
Ref Offset 3.48 dl	IFGain:Low #Atten: 30 dB	Mkr1 50.00 ms	
Ref Offset 3.48 di 10 dB/div Ref 20.00 dBn		-3.78 dBm	
-20.0			
-40.0			
-60.0			
Center 5.180000000 GHz		Span 0 Hz	
	#VBW 3.0 MHz X Y FUNCTION FUNCTION WIDTH 5000	Sweep 100.0 ms (10001 pts) FUNCTION VALUE	
1 N 1 t 2 3	50.00 ms -3.78 dBm		
5 6 7		E	
8 9 10			
MSG	III STATUS		
	Duty Cycle NVNT a 5200MHz		
04 RL RF 50 Ω AC Center Freq 5.2000000	OD GHZ Auto PNO: Fast → Trig: Free Run	05:16:12 PM Mar 04, 2022 pe: Log-Pwr TRACE 12:3:4:5:6 TYPE WWWWW DET P MINN N	
Ref Offset 3.44 di 10 dB/div Ref 20.00 dBn	IFGain:Low #Atten: 30 dB	Mkr1 50.00 ms	
10 dB/div Ref 20.00 dBn		-2.02 dBm	
0.00			
-20.0			
-40.0			
-60.0			
Center 5.200000000 GHz Res BW 1.0 MHz	47/1214/ 2 0 Malin	Span 0 Hz Sweep 100.0 ms (10001 pts)	
	#VBW 3.0 MHz           X         Y         FUNCTION         FUNCTION WIDTH           50.00 ms         -2.02 dBm         -2.02 dBm	FUNCTION VALUE	
5 6 7		10	
8 9 10 11			
MSG	III STATUS	5	

		Duty (	Cycle NVNT a 5240			
	XX RL RF 50Ω AC Center Freq 5.240000000	GHz PNO: Fast ↔ IFGain:Low	Talas Free Dem	AVg Type: Log-Pwr	05:21:49 PM Mar 04, 20 TRACE 1 2 3 4 TYPE WWWW DET P N N N	22 5 6 WW N N
	Ref Offset 3.61 dB 10 dB/div Ref 20.00 dBm				Mkr1 50.00 m -2.25 dB	ns m
	Logv		1	an mile		
K.	-10.0					
	-30.0					
	-60.0					
/	-70.0 Center 5.240000000 GHz				Span 0 H	iz
	Res BW 1.0 MHz MKR MODE TRC SCL X	Y	SW 3.0 MHz FUNCTION FUN 5 dBm		P 100.0 ms (10001 pt	<u>s)</u>
						6
	5 6 7 8					
	9 10 11				4	•
)	MSG	Duty O	ycle NVNT n20 518			
_	Keysight Spectrum Analyzer - Swept SA	Duty C			05:23:37 PM Mar 04, 20	22
	Center Freq 5.18000000	GHz PNO: Fast ↔ IFGain:Low		Avg Type: Log-Pwr	TRACE 1 2 3 4 TYPE WWWW DET P N N N	5 6 **** N N
	Ref Offset 3.28 dB 10 dB/div Ref 20.00 dBm				Mkr1 50.00 m -3.88 dB	
0	10.0		1			
	0.00					
)	-30.0					
	-50.0					
	-70.0					
	Center 5.180000000 GHz Res BW 1.0 MHz	#VI	SW 3.0 MHz		Span 0 H ep 100.0 ms (10001 pt FUNCTION VALUE	iz (s)
Ċ			8 dBm		POINC HON VALUE	Î
	4					E
)	7 8 9 10					
	11 MSG		m	STATUS	4	•
	λ.					

an	Keysight Spectrum Analyzer - Swept SA	Duty Cycle 1	VVNT n20 5200MHz			
	RL RF 50Ω AC enter Freq 5.200000000	PNO: Fast ++++ Iri	Avg T g: Free Run	05:28: ype: Log-Pwr	01 PM Mar 04, 2022 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N N	
	Ref Offset 3.24 dB 0 dB/div Ref 20.00 dBm	IFGain:Low#A	tten: 30 dB	Mkr1	50.00 ms 3.55 dBm	
L	0 dB/div Ref 20.00 dBm 99 10.0		1			
	0.00 <b></b>	nan nan markan kana kana kana kana kana kana kana				
<	20.0					
	40.0					
	70.0					
	enter 5.200000000 GHz tes BW 1.0 MHz	#VBW 3.	) MHz	Sweep 100.0 ms	Span 0 Hz (10001 pts)	
	IKR MODE TRC SCL X	Y 50.00 ms -3.55 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE		
(20	3 4 5 6					
	7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9					
•						
	GG	Duty Cycle 1	statu NVNT n20 5240MHz	s		
L)XI	Keysight Spectrum Analyzer - Swept SA           RL         RF         50 Ω         AC           enter Freq 5.240000000	GHz SENSE:	Avg T		25 PM Mar 04, 2022 TRACE 12 3 4 5 6	
		PNO: Fast ++++ Tri	g: Free Run		DET P N N N N	
			tten: 30 dB	Mkr1		
	Ref Offset 3.41 dB 0 dB/div Ref 20.00 dBm		tten: 30 dB	Mkr1	50.00 ms 1.57 dBm	
	0 dB/div Ref 20.00 dBm			Mkr1	50.00 ms	
	0 dB/div Ref 20.00 dBm 9 9 100 100 100 200 200 200 200 200			Mkr1	50.00 ms	
	0 dB/div Ref 20.00 dBm			Mkr1	50.00 ms	
	0 dB/div Ref 20.00 dBm 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d			Mkr1	50.00 ms	
	0 dB/div Ref 20.00 dBm 99 100 100 100 100 100 100 100	IFGain:Low #A			50.00 ms 1.57 dBm	
	O dB/div         Ref 20.00 dBm           Og         Image: Comparison of the second secon		D MHz	Sweep 100.0 ms	50.00 ms 1.57 dBm	
	O dB/div         Ref 20.00 dBm           99	IFGain:Low #A	D MHz	Sweep 100.0 ms	50.00 ms 1.57 dBm	
R	O dB/div         Ref 20.00 dBm           99	IFGain:Low #A	D MHz	Sweep 100.0 ms	50.00 ms 1.57 dBm	
	O dB/div         Ref 20.00 dBm           99	IFGain:Low #A	D MHz	Sweep 100.0 ms	50.00 ms 1.57 dBm	
R	0 dB/div Ref 20.00 dBm 9 9 9 9 9 9 9 9 9 9	IFGain:Low #A	D MHz	Sweep 100.0 ms	50.00 ms 1.57 dBm	
R	O dB/div         Ref 20.00 dBm           99	IFGain:Low #A	D MHz	Sweep 100.0 ms	50.00 ms 1.57 dBm	
C C C	O dB/div         Ref 20.00 dBm           99	IFGain:Low #A	D MHz	Sweep 100.0 ms	50.00 ms 1.57 dBm	
C C C	O dB/div         Ref 20.00 dBm           99	IFGain:Low #A	D MHz	Sweep 100.0 ms	50.00 ms 1.57 dBm	
C C C	O dB/div         Ref 20.00 dBm           99	IFGain:Low #A	D MHz	Sweep 100.0 ms	50.00 ms 1.57 dBm	

	ight Spectrum Analyzer - Swept SA	Duty		n40 5190MHz		- đ	×	
	er Freq 5.19000000	00 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free F #Atten: 30 of	Run	'ype: Log-Pwr	05:42:04 PM Mar 04, 20 TRACE 1 2 3 4 TYPE WWWW DET PNNN	22 5 6 WW N N	
10 dB Log√	Ref Offset 3.25 dE	3				Mkr1 1.320 m -19.56 dB	ns m	
-10.0						en i a constante de la constant	<b>.</b> 22	
-30.0 - -40.0 - -50.0 -								
-60.0 - -70.0 -								
Res I	er 5.190000000 GHz BW 1.0 MHz	#	≇VBW 3.0 MHz			Span 0 F 00.0 ms (10001 pt		
1 2	ODE TRC SCL 2 N 1 t N 1 t N 1 t N 1 t	1.320 ms -1 1.340 ms -2	Y FUNC 9.56 dBm 1.33 dBm 0.37 dBm	TION FUNCTION WIDTH	I FUNG	CTION VALUE	Î	
4 5 6 7								
8 9 10 11							•	
MSG	~~ /	Dista			IS	,		
LX/ RL	ight Spectrum Analyzer - Swept SA RF 50 Ω AC			n40 5230MHz	ype: Log-Pwr	05:41:10 PM Mar 04, 20	22	
Cent	er Freq 5.2300000	PNO: Fast IFGain:Low	↔ Trig: Free F #Atten: 30 c	Run	ype. 20g i m	TRACE 1234 TYPE WWWW DET PNNN Mkr1 390.0		
10 dB Log	Ref Offset 3.37 dE /div Ref 20.00 dBm	3 1				-19.81 dB		
0.00								
-10.0								
-20.0 ¥ -30.0 -		iloratiloratilatilitatilitatilatilitatilitatilitatilitatilitatilitatilitatilitatilitatilitatilitatilitatilitati			that have a state of the state of		ai (	
		1994 a 2994 a		ni produkci na podulji k sljava da podulji k sljava da podulji k sljava da podulji k sljava da podulji k sljav Na podulji k sljava da podulji k		ngingana sitrataat		
-20.0 ¥ -30.0 - -40.0 - -60.0 - -70.0 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1					Span 0 H		
-20.0 1 -30.0 - -40.0 - -60.0 - -70.0 - -70.0 - Cent Res I	er 5.230000000 GHz BW 1.0 MHz	×	<b>¢VBW 3.0 MHz</b> Y FUNC		Sweep 1		Hz I	
-20 0 -30 0 -40 0 -60 0 -70 0 -70 -70 0 -70 0 -70 -70 0 -70	er 5.230000000 GHz BW 1.0 MHz	<del>410.0 us -1</del> 410.0 us -2	≠VBW 3.0 MHz		Sweep 1	Span 0 F 00.0 ms (10001 pt	Hz I	
-20 0 -30 0 -40 0 -60 0 -70 0 -70 -70 0 -70 0 -7	er 5.230000000 GHz BW 1.0 MHz ODE TRC SCL : : N 1 t :	<del>410.0 us -1</del> 410.0 us -2	#VBW 3.0 MHz Y FUNC 9.81 dBm 0.92 dBm		Sweep 1	Span 0 F 00.0 ms (10001 pt	Hz I	
-20 0 -30 0 -40 0 -60 0 -70 0 -70 -70 0 -70 0 -7	er 5.230000000 GHz BW 1.0 MHz ODE TRC SCL : : N 1 t :	<del>410.0 us -1</del> 410.0 us -2	#VBW 3.0 MHz Y FUNC 9.81 dBm 0.92 dBm	TION FUNCTION WIDTH	Sweep 1	Span 0 F 00.0 ms (10001 pt	Hz I	
-20 0 -30 0 -40 0 -60 0 -60 0 -70 0 -70 0 -70 0 - Cent Res 1 2 3 4 4 5 6 7 8 9 9 10	er 5.230000000 GHz BW 1.0 MHz ODE TRC SCL : : N 1 t :	<del>410.0 us -1</del> 410.0 us -2	#VBW 3.0 MHz Y FUNC 9.81 dBm 0.92 dBm		Sweep 1	Span 0 F 00.0 ms (10001 pt	Hz I	
-20 0 -30 0 -40 0 -60 0 -70 0 -70 -70 0 -70 0 -7	er 5.230000000 GHz BW 1.0 MHz ODE TRC SCL : : N 1 t :	<del>410.0 us -1</del> 410.0 us -2	#VBW 3.0 MHz Y FUNC 9.81 dBm 0.92 dBm	TION FUNCTION WIDTH	Sweep 1	Span 0 F 00.0 ms (10001 pt	Hz I	
-20 0 -30 0 -40 0 -60 0 -70 0 -70 -70 0 -70 0 -7	er 5.230000000 GHz BW 1.0 MHz ODE TRC SCL : : N 1 t :	<del>410.0 us -1</del> 410.0 us -2	#VBW 3.0 MHz Y FUNC 9.81 dBm 0.92 dBm	TION FUNCTION WIDTH	Sweep 1	Span 0 F 00.0 ms (10001 pt	Hz I	
-20 0 -30 0 -40 0 -60 0 -70 0 -70 -70 0 -70 0 -7	er 5.230000000 GHz BW 1.0 MHz ODE TRC SCL : : N 1 t :	<del>410.0 us -1</del> 410.0 us -2	#VBW 3.0 MHz Y FUNC 9.81 dBm 0.92 dBm	TION FUNCTION WIDTH	Sweep 1	Span 0 F 00.0 ms (10001 pt	Hz I	

🔤 Keysight Spectrum Ana	lyzer - Swept SA	y Cycle NVNT ac20 51				
Center Freq 5.	50 Ω AC 180000000 GHz PNO: Fa: IFGain:LC	st ↔→→ Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr	05:33:43 PM Mar 04, 20 TRACE 1 2 3 4 TYPE WWWW DET P N N N	22 5 6 WW N N	
10 dB/div Ref 2	ffset 3.28 dB 20.00 dBm			Mkr1 50.00 m -3.93 dB	IS	
10.0		1				
-10.0						
-30.0						
-50.0						
-70.0						
Center 5.180000 Res BW 1.0 MH:		#VBW 3.0 MHz		Span 0 H p 100.0 ms (10001 pt FUNCTION VALUE		
1 N 1 t 2 3	50.00 ms	-3.93 dBm				
8 9 10						
11		111	STATUS	4		
Keysight Spectrum Ana		y Cycle NVNT ac20 52				
LXI RL RF	50 Ω AC 200000000 GHz		ALIGN AUTO Avg Type: Log-Pwr	05:34:55 PM Mar 04, 20 TRACE 1 2 3 4 TYPE WWWW DET P.NNN	22	
Bef O	PNO: Fa IFGain:Lo			Mkr1 50.00 m		
10 dB/div Ref 2	ffset 3.24 dB 20.00 dBm			-2.08 dB		
0.00 <b></b>						
-20.0						
-40.0						
-60.0						
		#VBW 3.0 MHz	Swee	Span 0 H p 100.0 ms (10001 pt	tz ts)	
Center 5.20000 Res BW 1.0 MH						
Res BW 1.0 MH;           MKR MODE TRC SCL           1         N	× 50.00 ms	Y FUNCTION FUN	NCTION WIDTH	FUNCTION VALUE		
Res BW 1.0 MH	X			FUNCTION VALUE	Ξ	
Res BW 1.0 MH;           MKR MODE TRC SCI           1         1           2	X		NCTION WIDTH	FUNCTION VALUE	E	
Res BW 1.0 MH;           MKR MODE TRC SCI           1         N           2           3           4           5           6           7	X			FUNCTION VALUE	E	
Res BW 1.0 MH;           MRR MODE TRCI SCL           1         N           2         1           3         4           5         6           6         7           8         9           10         0	X			FUNCTION VALUE	E	
Res BW 1.0 MH;           MKR MODE TRC SCI           1         N           2         1           3         4           5         6           6         7           8         9           10         11	X			FUNCTION VALUE		
Res BW 1.0 MH;           MKR MODE TRC SCI           1         N           2         1           3         4           5         6           6         7           8         9           10         11	X			FUNCTION VALUE		
Res BW 1.0 MH;           MKR MODE TRC SCI           1         N           2         1           3         4           5         6           6         7           8         9           10         11	X			FUNCTION VALUE		
Res BW 1.0 MH;           MKR MODE TRC SCI           1         N           2         1           3         4           5         6           6         7           8         9           10         11	X			FUNCTION VALUE		

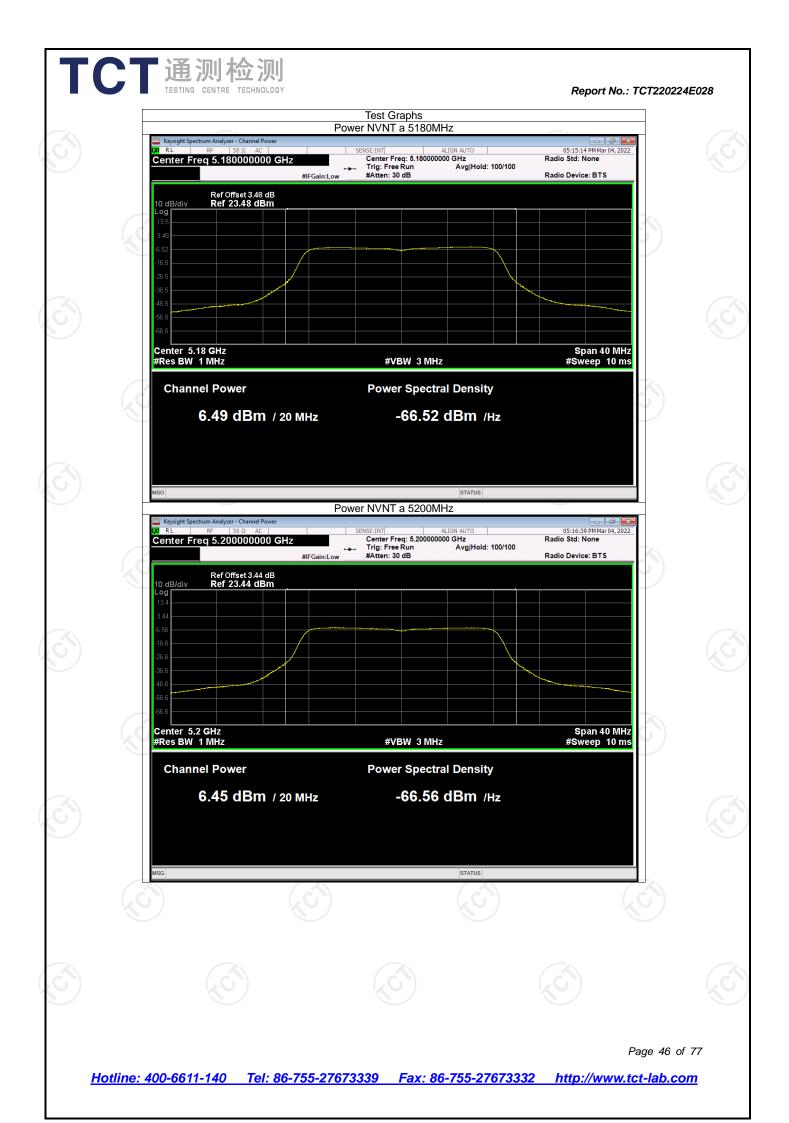
Keysight Spectrum Anal	Duty Cycle NVN1           yzer - Swept SA           50 Ω         AC	ac20 5240MHz	05:36:28 PM Mar 04, 2022
Center Freq 5.2	240000000 GHz PNO: Fast → Trig: Free IFGain:Low #Atten: 3	Avg Type: Log-Pwr e Run	
Ref Of 10 dB/div <b>Ref 2</b> Log <mark>√</mark>	fset 3.41 dB 0.00 dBm		Mkr1 50.00 ms -1.22 dBm
-20.0			
-40.0			
-60.0			
Center 5.240000 Res BW 1.0 MHz	#VBW 3.0 MH	Z Swee	Span 0 Hz ep 100.0 ms (10001 pts)
1 N 1 t 2 3 4 4	50.00 ms -1.22 dBm		
5 6 7 8			
9 10 11			•
MSG	Duty Cycle NVNT	status ac40 5190MHz	
Keysight Spectrum Anal R RL RF Center Freq 5.1	50 Ω AC SENSE:INT 900000000 GHz PNO: Fast →→ Trig: Free	ALIGN AUTO Avg Type: Log-Pwr e Run	05:42:49 PM Mar 04, 2022 TRACE 2 3 4 5 6 TYPE WWWWWW DET P. NNNNN
Ref Of 10 dB/div Ref 2	IFGain:Low #Atten: 3 fset 3.25 dB 0.00 dBm	0 dB	Mkr1 120.0 μs -21.00 dBm
10.0			
-10.0 2 73 -20.0			
-40.0			
-50.0			
-50.0 -60.0 -70.0 Center 5.190000 Res BW 1.0 MHz	#VBW 3.0 MH		Span 0 Hz ep 100.0 ms (10001 pts)
-50.0 -60.0 -70.0 Center 5.190000 Res BW 1.0 MHz MKR MODE TRC SCL 1 N 1 t 2 N 1 t 3 N 1 t	#VBW 3.0 MH	z Swee	Span 0 Hz ep 100.0 ms (10001 pts) FUINCTION VALUE
-50.0 -60.0 -70.0 Center 5.190000 Res BW 1.0 MHz MKR MODE TRC SCL 1 N 1 t 2 N 1 t 3 N 1 t 4 5 6 7	X Y FU		ep 100.0 ms (10001 pts)
-50 0 -60 0 -70 0 Center 5.190000 Res BW 1.0 MHz MKR MODE TRC SCL 1 N 1 t 2 N 1 t 3 N 1 t 4 5 6	X Y FU		ep 100.0 ms (10001 pts)
-50 0 -60 0 -70 0 Center 5.190000 Res BW 1.0 MHz MKR MODE TRC SCL 1 N 1 t 2 N 1 t 3 N 1 t 4	X Y FU		ep 100.0 ms (10001 pts)
-500 -600 -700 Center 5.190000 Res BW 1.0 MHz MKR MODE TRC SCL 1 N 1 t 2 N 1 t 3 N 1 t 4 5 6 6 7 8 9 9 10	X Y FU	NCTION FUNCTION WIDTH	ep 100.0 ms (10001 pts)
-500 -600 -700 Center 5.190000 Res BW 1.0 MHz MKR MODE TRC SCL 1 N 1 t 2 N 1 t 3 N 1 t 4 5 6 7 8 9 9 10	X Y FU	NCTION FUNCTION WIDTH	ep 100.0 ms (10001 pts)
-500 -600 -700 Center 5.190000 Res BW 1.0 MHz MKR MODE TRC SCL 1 N 1 t 2 N 1 t 3 N 1 t 4 5 6 6 7 8 9 9 10	X Y FU	NCTION FUNCTION WIDTH	ep 100.0 ms (10001 pts)

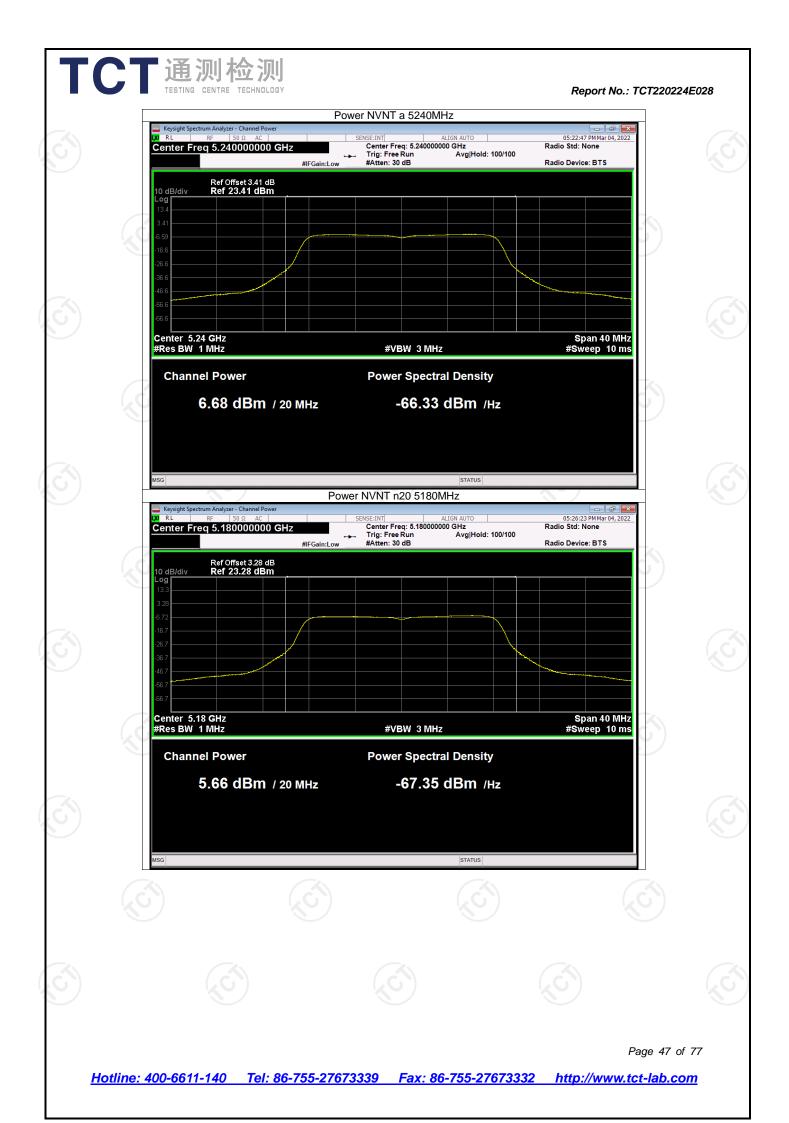
LXI RL	ectrum Analyzer - Swept SA RF 50 Ω AC	Duty Cycle NVNT ac	ALIGN AUTO	05:43:49 PM Mar 04, 2022	
Center F	req 5.230000000 GHz	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr	TRACE 123456 TYPE WWWWWWW DET PNNNNN Mkr1 600.0 µs	
10 dB/div Log	Ref Offset 3.37 dB Ref 20.00 dBm			-16.39 dBm	
0.00 -10.0			anun an Inaun an Inau an Inau Martin an Inaun an Inaun		
-20.0 -30.0 -40.0	<u>ini vinovy prviji vinovy prviji vinov</u>	vijteritim prateritika printeritika printera printeritika. Na se	la fa in iarr fa bh iarnior ann an bhainn ann ann ann ann ann ann ann ann ann		
-50.0					
	230000000 GHz	#) (B)(K) 0.0 M(1-		Span 0 Hz	
	RC SCL X 1 t 600.0	#VBW 3.0 MHz Y FUNCTION 0 us -16.39 dBm		00.0 ms (10001 pts) TION VALUE	
2 N 3 N 4 5 6		) µs -14.47 dBm ms -13.06 dBm			
7 8 9 10					
11			STATUS	• •	
	ectrum Analyzer - Swept SA	Duty Cycle NVNT ac			
Center F	RF 50Ω AC Freq 5.2100000000 GHz	PNO: Fast HIGain:Low #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr	03:52:49 PM Mar 04, 2022 TRACE 1 2 3 4 5 6 TYPE DET P N N N N N	
10 dB/div Logy	Ref Offset 3.45 dB Ref 20.00 dBm			Mkr1 50.00 ms -9.29 dBm	
0.00	Alternotilensississessisteleenselleensissis				
-20.0	fan de jene iskele om de brokenne gefande i de skie værete begen på her som de verdenset I de skie de skie de skie værete skie værete skie de ski	n an	eden and an and a second s	in an	
-40.0					
-60.0					
Center 5 Res BW		#VBW 3.0 MHz		Span 0 Hz 100.0 ms (10001 pts)	
	1 t 50.00				
5 6 7 8					
9 10 11					
MSG		<u></u>	STATUS		

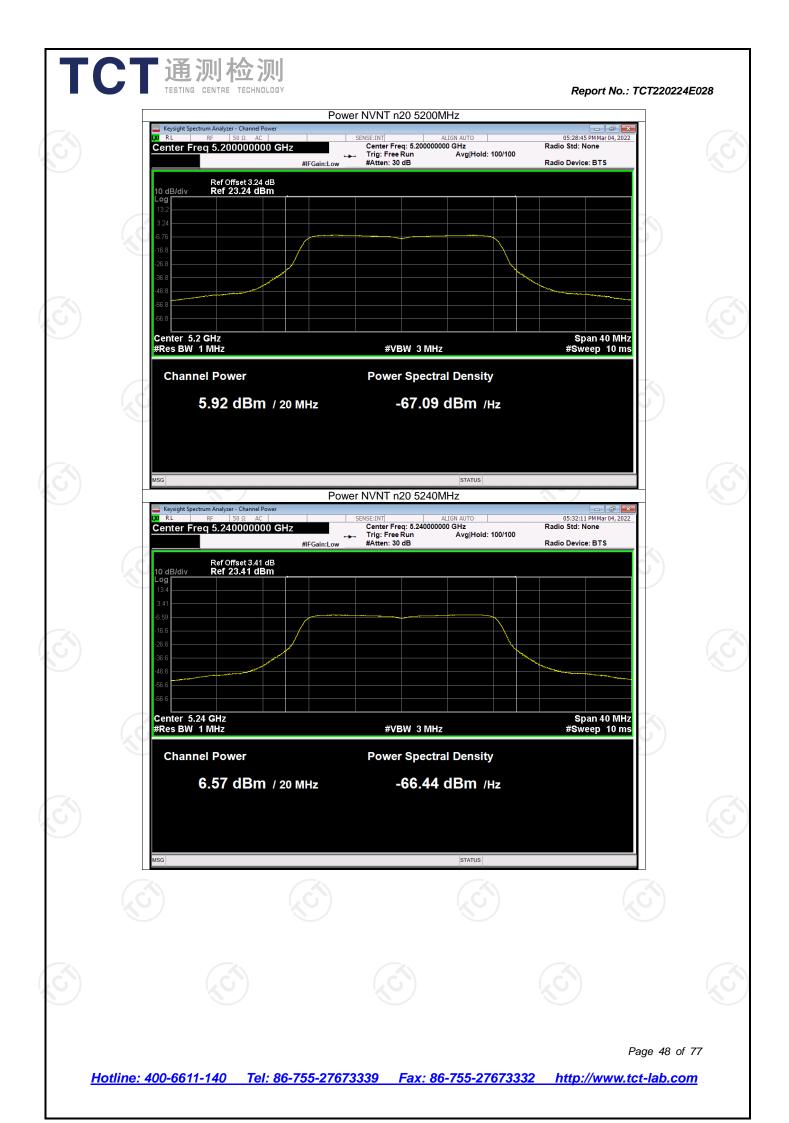
	waxir	num Conduc	cted Output P	ower	
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	а	5180	6.49	24	Pass
NVNT	а	5200	6.45	24	Pass
NVNT	а	5240	6.68	24	Pass
■ NVNT	n20	5180	5.66	24	Pass
NVNT	n20	5200	5.92	24	Pass
NVNT	n20	5240	6.57	24	Pass
NVNT	n40	5190	6.08	24	Pass
NVNT	n40	5230	6.73	24	Pass
NVNT	ac20	5180 🔍	5.58	24	Pass
NVNT	ac20	5200	5.92	24	Pass
NVNT	ac20	5240	6.61	24	Pass
NVNT	ac40	5190	6.12	24	Pass
NVNT	ac40	5230	6.79	24	Pass
NVNT	ac80	5210	5.87	24	Pass

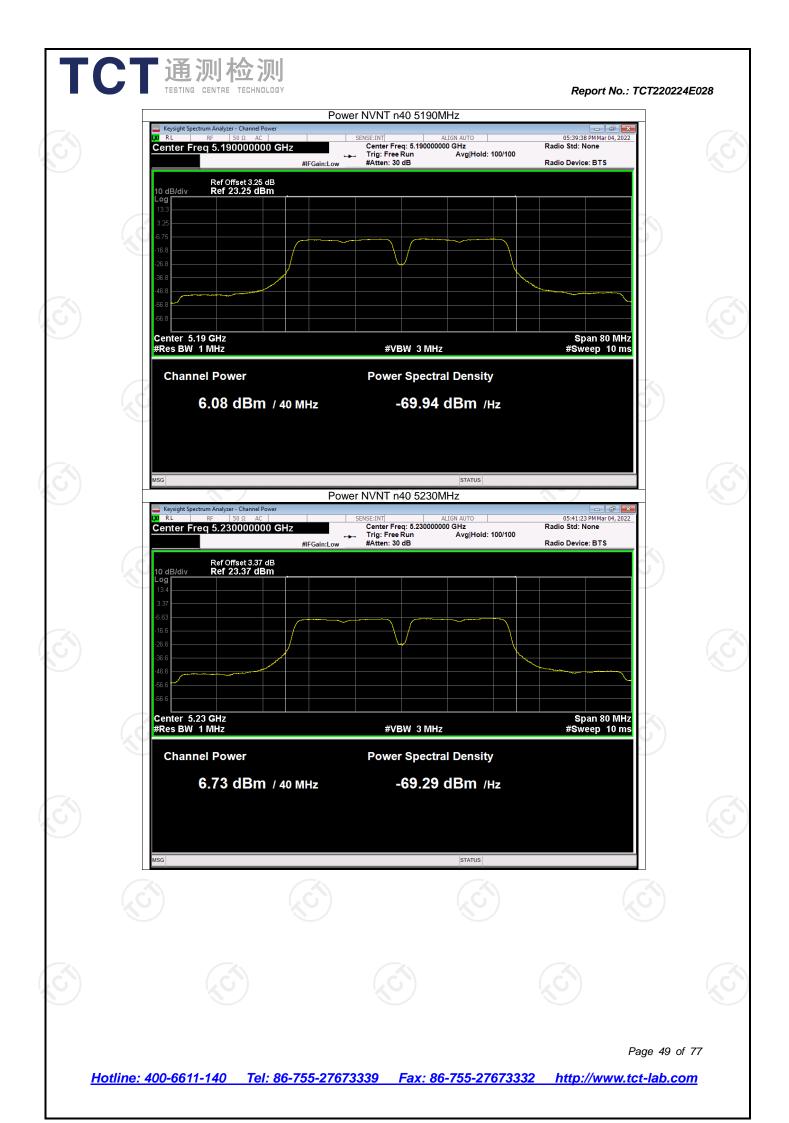
## vimum Conducted Output Power

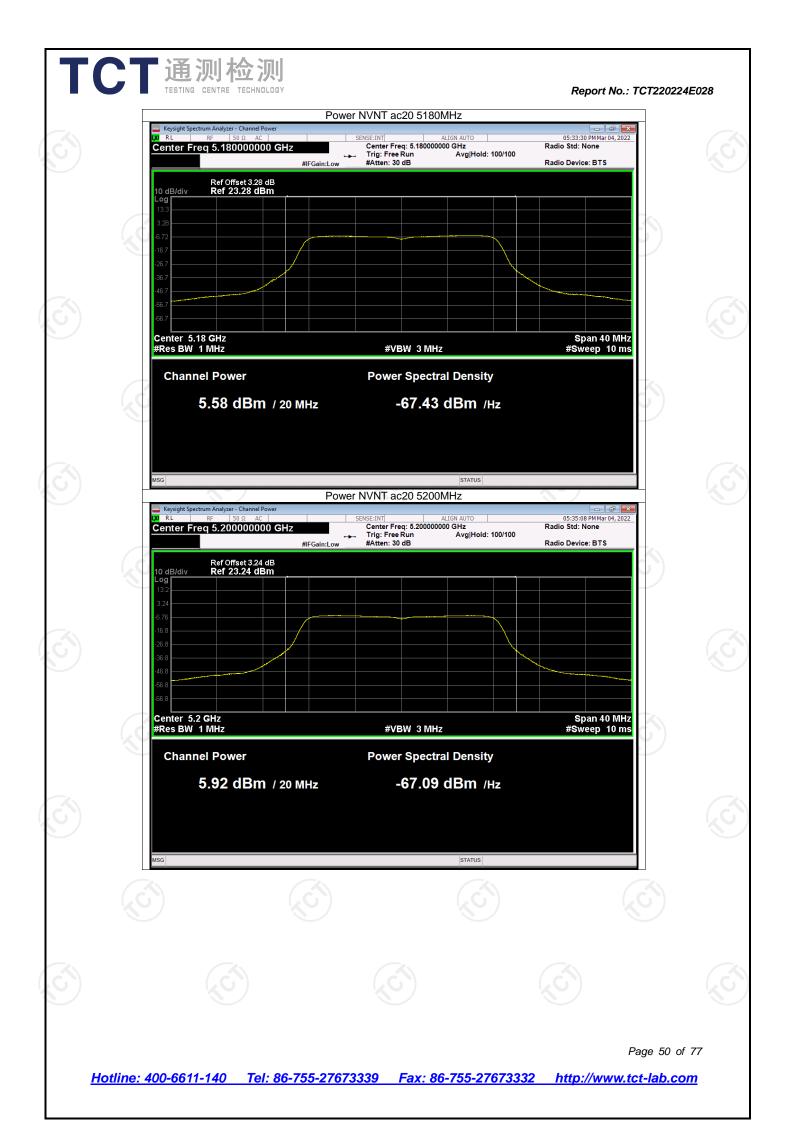
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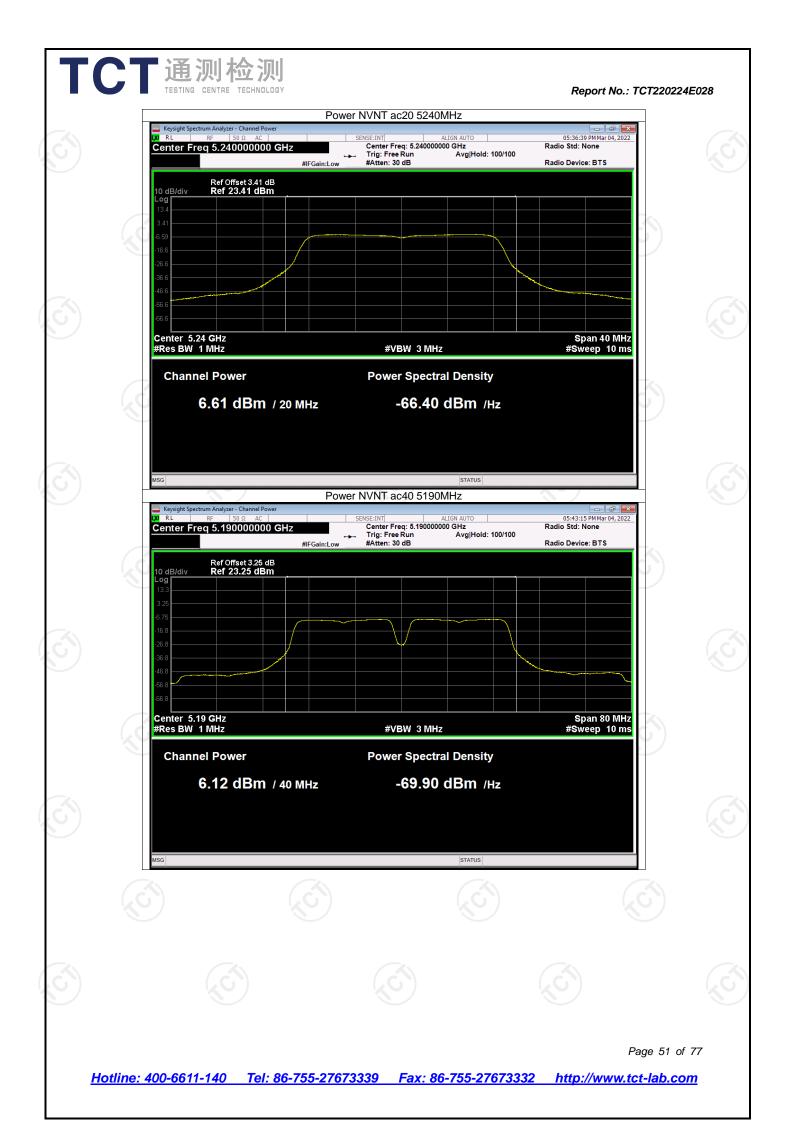


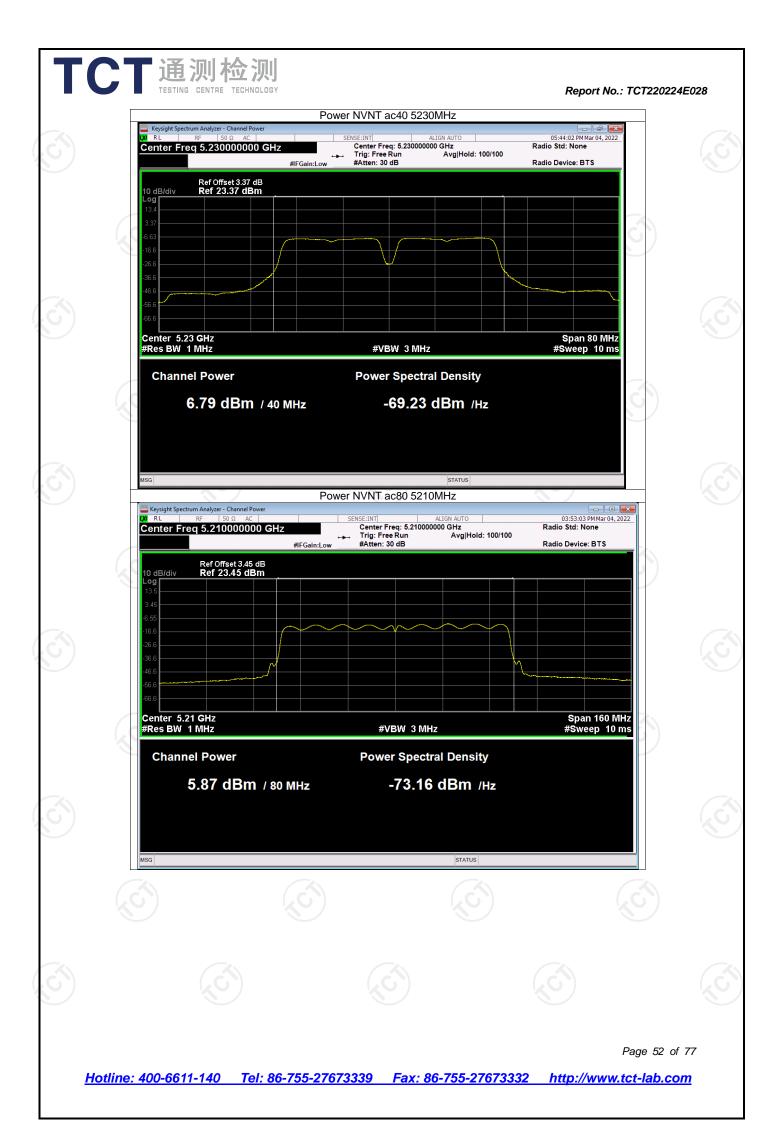












ГСТ	TESTING CE	ENTRE TECHNOLOGY		Report No.: TCT	220224E028
		-2	26dB Bandwidth	<u>_</u> 1.	
Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	а	5180	21.294	0.5	Pass
NVNT	а	5200	21.445	0.5	Pass
NVNT	а	5240	21.345	0.5	Pass
NVNT	n20	5180	21.382	0.5	Pass
NVNT	n20	5200	21.485	0.5	Pass
NVNT	n20	5240	21.338	0.5	Pass
NVNT	n40	5190	42.245	0.5	Pass
NVNT	n40	5230	42.273	0.5	Pass
NVNT	ac20	5180	21.665	0.5	Pass
NVNT	ac20	5200	21.483	0.5	Pass
NVNT	ac20	5240	21.615	0.5	Pass
NVNT	ac40	5190	41.412	0.5	Pass
NVNT	ac40	5230	41.404	0.5	Pass
NVNT	ac80	5210	80.756	0.5	Pass

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T通测检测 TESTING CENTRE TECHNOLOGY		Test Graphs		Report No.: TCT	220224E
M Reysight Spectrum Analyzer - Occupied BW M RL RF 50 Ω AC Center Freq 5.180000000 GH2		Center Freq: 5.18000000	GN AUTO	02:06:16 PM Mar 04, 2022 Radio Std: None	
Ref Offset 3.48 dB	#IFGain:Low	#Atten: 30 dB	Avginola. 200/200	Radio Device: BTS Mkr3 5.190677 GHz	
10 dB/div Ref 23.48 dBm Log 13.5			<b>1</b>	-28.338 dBm	
-16.5				3	
-26.5					
-66.5					
Center 5.18 GHz #Res BW 300 kHz		#VBW 1 MHz		Span 30 MHz #Sweep 10 ms	
Occupied Bandwidth	65 MHz	Total Power	13.0 dBm		
Transmit Freq Error 2	9.515 kHz 21.29 MHz	% of OBW Power x dB	99.00 % -26.00 dB		
MSG	-26dB Ba	ndwidth NVNT a 520			
Center Freq 5.20000000 GH2		SENSE:INT ALIO	GN AUTO	02:15:08 PM Mar 04, 2022 Radio Std: None	
Ref Offset 3.44 dB	#IFGain:Low	. Trig: Free Run #Atten: 30 dB	Avg Hold: 200/200	Radio Device: BTS Mkr3 5.210725 GHz	
10 dB/div Ref 23.44 dBm			1	-28.324 dBm	
-6.56 -16.6	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			3	
-26.6 -36.6 -46.6				and the second s	
-56.6 -66.6					
Center 5.2 GHz #Res BW 300 kHz		#VBW 1 MHz		Span 30 MHz #Sweep 10 ms	
Occupied Bandwidth 16.87	6 MHz	Total Power	13.2 dBm		
Transmit Freq Error x dB Bandwidth	2.459 kHz 21.45 MHz	% of OBW Power x dB	99.00 % -26.00 dB		
MSG			STATUS		

		andwidth NVNT a 524	0MHz	Report No.: TC1	2202
Keysight Spectrum Analyzer - Occupied (X) RL RF 50 Ω Α(	C		GN AUTO	02:21:10 PM Mar 04, 2022	
Center Freq 5.2400000	100 GHz #IFGain:Low	Center Freq: 5.240000000 → Trig: Free Run #Atten: 30 dB	GHz Avg Hold: 200/200	Radio Std: None Radio Device: BTS	
Ref Offset 3.6 10 dB/div Ref 23.61 d				Mkr3 5.250692 GHz -27.674 dBm	
10 dB/div Ref 23.61 d Log	Bm			-27.074 UBII	
3.61			1		2
-6.39 -16.4				3	)
-26.4				- CONNERS AND	
-46.4 -46.4				"The second second	
-56.4					
Center 5.24 GHz #Res BW 300 kHz		#VBW 1 MHz		Span 30 MHz #Sweep 10 ms	
Occupied Bandwi	dtb	Total Power	13.8 dBm	#Sweep To his	
	atn 16.865 MHz				
Transmit Freq Error		% of OBW Power	99.00 %		Ü
x dB Bandwidth	21.34 MHz	x dB	-26.00 dB		
MSG			STATUS		
Keysight Spectrum Analyzer - Occupied		ndwidth NVNT n20 51	80MHz		
X         RL         RF         50 Ω         All           Center Freq 5.1800000         Center Freq 5.18000000         CenteFreq 5.180000000         Center Freq 5.180000000	C	Center Freq: 5.18000000	GN AUTO GHz	02:26:35 PM Mar 04, 2022 Radio Std: None	
	⊶ #IFGain:Low	⊢ Trig: Free Run #Atten: 30 dB	Avg Hold: 200/200	Radio Device: BTS	
Ref Offset 3.44 10 dB/div Ref 23.48 d	8 dB <b>Bm</b>			Mkr3 5.190749 GHz -28.383 dBm	
Log 13.5			.1		
3.48 -6.52			Å1	~~	
-16.5				3	
-36.5				and a second and a	
-56.5					
-66.5					
Center 5.18 GHz #Res BW 300 kHz		#VBW 1 MHz		Span 30 MHz #Sweep 10 ms	
Occupied Bandwi		Total Power	12.7 dBm		
	17.740 MHz				
Transmit Freq Error x dB Bandwidth	57.835 kHz 21.38 MHz	% of OBW Power x dB	99.00 % -26.00 dB		
MSG			STATUS		

	dB Bandwidth NVNT n20 52	200MHz	
Keysight Spectrum Analyzer - Occupied BW           RL         RF         50 Ω         AC         AC           enter Freq 5.2000000000 GHz         C         C         C         C	Center Freq: 5.20000000	GN AUTO	02:29:56 PM Mar 04, 2022 Radio Std: None
	in:Low #Atten: 30 dB	Avg Hold: 200/200	Radio Device: BTS
Ref Offset 3.44 dB 0 dB/div Ref 23.44 dBm			Mkr3 5.21077 GHz -28.479 dBm
og			
3.44 	where the second	Å1	~
6.6 <b>2</b>			3
6.6			The second secon
6.6			
6.6			
senter 5.2 GHz Res BW 300 kHz	#VBW 1 MHz		Span 30 MHz #Sweep 10 ms
Occupied Bandwidth	Total Power	13.0 dBm	
17.749 N			
Transmit Freq Error27.862x dB Bandwidth21.48		99.00 % -26.00 dB	
-26	dB Bandwidth NVNT n20 52	status 240MHz	
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC		GN AUTO	02:33:20 PM Mar 04, 2022
enter Freq 5.240000000 GHz	Center Freq: 5.240000000 Trig: Free Run in:Low #Atten: 30 dB	GHz Avg Hold: 200/200	Radio Std: None Radio Device: BTS
Ref Offset 3.61 dB			Mkr3 5.25071 GHz
0 dB/div Ref 23.61 dBm 99 3.6			-27.166 dBm
3.61	man and a second and	A1	
6.4 <u>2</u>			3
6.4 6.4 6.4			The second secon
6.4			
6.4			
enter 5.24 GHz Res BW 300 kHz	#VBW 1 MHz		Span 30 MHz #Sweep  10 ms
Occupied Bandwidth	Total Power	13.7 dBm	
17.734 N			
Transmit Freq Error41.151x dB Bandwidth21.34		99.00 % -26.00 dB	
		20100 48	
×			
G		STATUS	

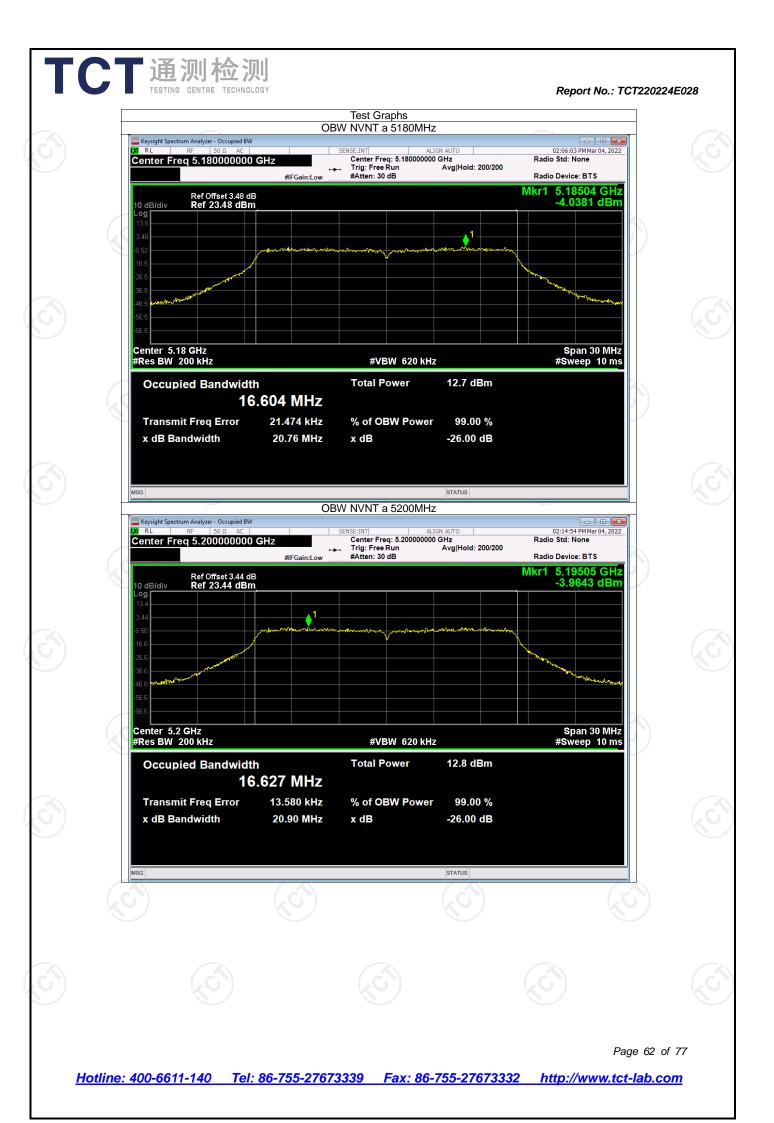
			00141-	Report No.: TC	<sup></sup> 220224E
Evil Keysight Spectrum Analyzer - Occupied BW	-260B Bai	ndwidth NVNT n40 51			
Center Freq 5.190000000	GHz	SENSE:INT ALIO	GN AUTO GHz Avg Hold: 200/200	03:23:48 PM Mar 04, 2022 Radio Std: None	
	⊶ #IFGain:Low	#Atten: 30 dB	Avginoid. 200/200	Radio Device: BTS	
Ref Offset 3.45 dB 10 dB/div Ref 23.45 dBm				Mkr3 5.211184 GHz -31.205 dBm	
Log 13.5					
3.45			(1		5
-16.6	mather		an a		
-26.6				3	
-36.6 4. And mark and more and a second seco				mount	
-56.6					
-66.6					
Center 5.19 GHz #Res BW 300 kHz		#VBW 1 MHz		Span 60 MHz #Sweep 10 ms	
Occupied Bandwidth		Total Power	13.1 dBm		
	.256 MHz		13.1 0.011		
Transmit Freq Error	61.425 kHz	% of OBW Power	99.00 %		)
x dB Bandwidth	42.24 MHz	x dB	-26.00 dB		
MSG			STATUS		
	-26dB Bai	ndwidth NVNT n40 52	30MHz		-
Keysight Spectrum Analyzer - Occupied BW           X         RL         RF         50 Ω         AC		SENSE:INT ALIO	GN AUTO	03:28:43 PM Mar 04, 2022 Radio Std: None	
Center Freq 5.23000000	GHZ #IFGain:Low	► Trig: Free Run #Atten: 30 dB	Avg Hold: 200/200	Radio Device: BTS	
Ref Offset 3.57 dB				Mkr3 5.251196 GHz	
10 dB/div Ref 23.57 dBm				-30.155 dBm	$\mathcal{I}$
3.67			1		
-6.43	and the second s	mannen marine		~	
-16.4 -26.4		V		3	
-36.4					
-46.4 Mahardhandhandhandhan					
-56.4					
Center 5.23 GHz				Span 60 MHz	
#Res BW 300 kHz		#VBW 1 MHz		#Sweep 10 ms	
Occupied Bandwidth		Total Power	13.8 dBm		
36	.291 MHz				
Transmit Freq Error	59.790 kHz	% of OBW Power	99.00 %		
x dB Bandwidth	42.27 MHz	x dB	-26.00 dB		
MSG			STATUS		
					]

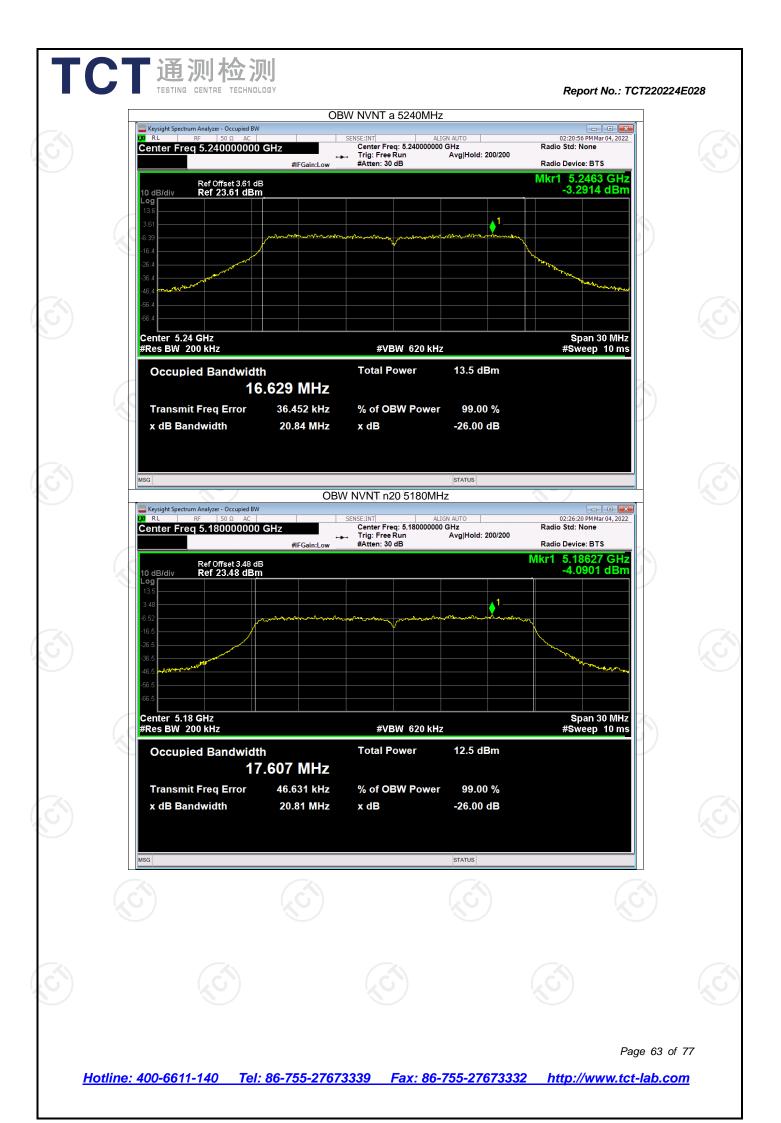
Keysight Spectrum Analyzer - Occupied B		dwidth NVNT ac20 5	180MHz		
Center Freq 5.18000000		SENSE:INT AL Center Freq: 5.18000000 → Trig: Free Run	IGN AUTO 0 GHz Avg Hold: 200/200	02:39:27 PM Mar 04, 2022 Radio Std: None	
	#IFGain:Low	#Atten: 30 dB		Radio Device: BTS Mkr3 5.19089 GHz	
Ref Offset 3.48 d 10 dB/div Ref 23.48 dB Log	1B m			-28.597 dBm	
3.48					
-6.52	and the second s				
-26.5					
-46.5					
-66.5					
Center 5.18 GHz #Res BW 300 kHz		#VBW 1 MHz		Span 30 MHz #Sweep 10 ms	
Occupied Bandwid		Total Power	12.8 dBm		_
	7.784 MHz		00.00		
Transmit Freq Error x dB Bandwidth	57.527 kHz 21.66 MHz	% of OBW Power x dB	99.00 % -26.00 dB		$\mathbf{P}$
MSG			STATUS		
		dwidth NVNT ac20 5	200MHz		
Keysight Spectrum Analyzer - Occupied BV           X         RL         RF         50 Ω         AC           Center Freq 5.200000000         State         State         AC		Center Freq: 5.2000000		02:47:40 PM Mar 04, 2022 Radio Std: None	
	⊶ #IFGain:Low	⊶ Trig: Free Run #Atten: 30 dB	Avg Hold: 200/200	Radio Device: BTS	X
Ref Offset 3.44 d 10 dB/div Ref 23.44 dB Log	iB m			Mkr3 5.210772 GHz -28.989 dBm	
13.4					
-6.56		han have		~~~3	
-26.6					
-46.6					
-66.6					
Center 5.2 GHz #Res BW 300 kHz		#VBW 1 MHz		Span 30 MHz #Sweep 10 ms	
Occupied Bandwid		Total Power	13.0 dBm		
	7.793 MHz		00.00.00		
Transmit Freq Error x dB Bandwidth	30.856 kHz 21.48 MHz	% of OBW Power x dB	99.00 % -26.00 dB		
MSG			STATUS		
 ~~					

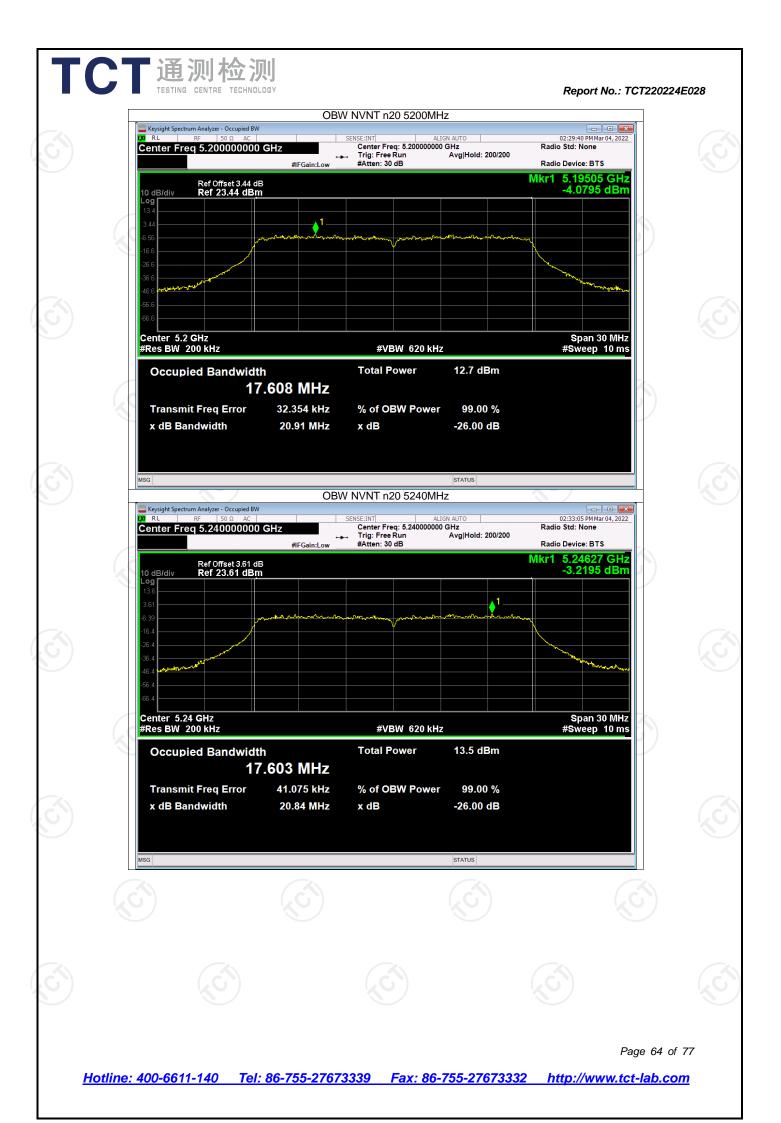
通测检测 TESTING CENTRE TECHNOLOGY	andwidth NIV/NIT ac20 51	240141-	Report No.: TO
-2000 Do	andwidth NVNT ac20 5		
KL RF 50 Ω AC     Center Freq 5.240000000 GHz	Center Freq: 5.24000000	IGN AUTO	03:12:14 PM Mar 04, 2022 Radio Std: None
#IFGain:Low	→→ Trig: Free Run #Atten: 30 dB	Avg Hold: 200/200	Radio Device: BTS
Ref Offset 3.61 dB			Mkr3 5.25086 GHz
Ref Offset 3.61 dB 10 dB/div Ref 23.61 dBm Log			-27.613 dBm
13.6 3.61			
-6.39		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~
·16.4			3
-26.4			and a second second
-46.4			an Allander and Anna
-56.4			
-66.4			
Center 5.24 GHz #Res BW 300 kHz	#VBW 1 MHz		Span 30 MHz #Sweep  10 ms
Occupied Bandwidth	Total Power	13.6 dBm	
17.787 MHz			
	% of OBW Power	99.00 %	
Transmit Freq Error52.813 kHzx dB Bandwidth21.61 MHz	% of OBW Power x dB	99.00 % -26.00 dB	
MSG		STATUS	
	andwidth NVNT ac40 5		
Keysight Spectrum Analyzer - Occupied BW     Keysight Spectrum Analyzer - Occupied BW     Keysight Spectrum Analyzer - Occupied BW     Keysight Spectrum Analyzer - Occupied BW	SENSE:INT ALI	IGN AUTO	03:34:44 PM Mar 04, 2022
Center Freq 5.190000000 GHz	Center Freq: 5.19000000 Trig: Free Run		Radio Std: None
#IFGain:Low	#Atten: 30 dB		Radio Device: BTS
Ref Offset 3.45 dB 10 dB/div Ref 23.45 dBm			Mkr3 5.210767 GHz -31.713 dBm
Log 13.5			
3.45			
-16.6		www.mannews.	
-26.6			h 3
			The second
-46.6 +++++++++++++++++++++++++++++++++++			
-66.6			
Center 5.19 GHz			Span 60 MHz
#Res BW 300 kHz	#VBW 1 MHz		#Sweep 10 ms
Occupied Bandwidth	Total Power	13.0 dBm	
36.214 MHz			
Transmit Freq Error 60.723 kHz	% of OBW Power		
x dB Bandwidth 41.41 MHz	x dB	-26.00 dB	
		07471-2	
MSG		STATUS	

		dwidth NVNT ac40 52	230MHz	Report No.: TC	]
Keysight Spectrum Analyzer - Occupied BW           Κα         RF         50 Ω         AC           Control         F         2000000000000000000000000000000000000		SENSE:INT ALI Center Freq: 5.230000000	GN AUTO	03:40:13 PM Mar 04, 2022 Radio Std: None	
Center Freq 5.230000000	GFIZ #IFGain:Low	Trig: Free Run     #Atten: 30 dB	Avg Hold: 100/100	Radio Device: BTS	
Ref Offset 3.57 dB 10 dB/div Ref 23.57 dBm				Mkr3 5.250752 GHz -30.693 dBm	
10 dB/div Ref 23.57 dBm Log 13.6					
3.57			<b>∧</b> ¹		
-6.43 -16.4 -76.4	an a survey of the second second second			× 3	
-26.4					
-46.4 Augustan Strand				W Mandan Marcart	
-66.4					
Center 5.23 GHz #Res BW 300 kHz		#VBW 1MHz		Span 60 MHz #Sweep 10 ms	
Occupied Bandwidth	n	Total Power	13.5 dBm		
	.238 MHz				
Transmit Freq Error	50.206 kHz	% of OBW Power	99.00 %		
x dB Bandwidth	41.40 MHz	x dB	-26.00 dB		
MSG			STATUS		_
Keysight Spectrum Analyzer - Occupied BW	-260B Ban	dwidth NVNT ac80 52			-
RL         RF         50 Ω         AC           Center Freq 5.210000000         C	+→	Center Freq: 5.21000000 Trig: Free Run	GN AUTO GHz Avg Hold: 200/200	03:53:37 PM Mar 04, 2022 Radio Std: None	
Ref Offset 3.45 dB	#IFGain:Low	#Atten: 30 dB		Radio Device: BTS Mkr3 5.250519 GHz	
10 dB/div Ref 23.45 dBm				-34.062 dBm	$\mathcal{V}$
3.45					
-6.55	- man		montaman	~~~	
-26.6				3	
-46.6 multimetry ton the select				meder person and more and	
-56.6					
Center 5.21 GHz #Res BW 300 kHz		#VBW 1 MHz		Span 120 MHz #Sweep 10 ms	
Occupied Bandwidth		Total Power	12.3 dBm		レ
	.572 MHz				
Transmit Freq Error	141.47 kHz	% of OBW Power	99.00 %		
x dB Bandwidth	80.76 MHz	x dB	-26.00 dB		
MSG			STATUS		

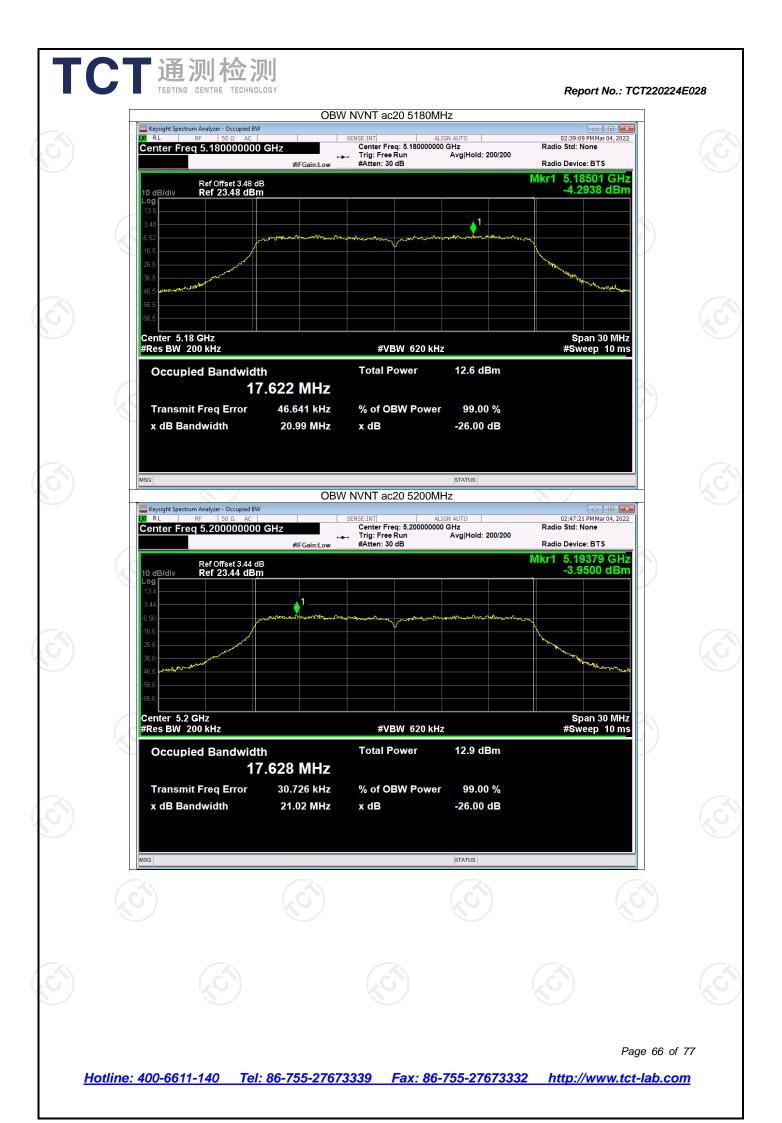
Report No.: TCT220224E028 **Occupied Channel Bandwidth** Frequency (MHz) 99% OBW (MHz) Condition Mode 5180 **NVNT** 16.604 а 5200 NVNT 16.627 а **NVNT** 5240 16.629 а NVNT n20 5180 17.607 NVNT n20 5200 17.608 n20 5240 17.603 NVNT n40 5190 36.413 NVNT 5230 NVNT n40 36.467 17.622 **NVNT** ac20 5180 ac20 5200 17.628 NVNT **NVNT** ac20 5240 17.630 NVNT ac40 5190 36.368 36.411 NVNT ac40 5230 NVNT 75.799 ac80 5210 Page 61 of 77 Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



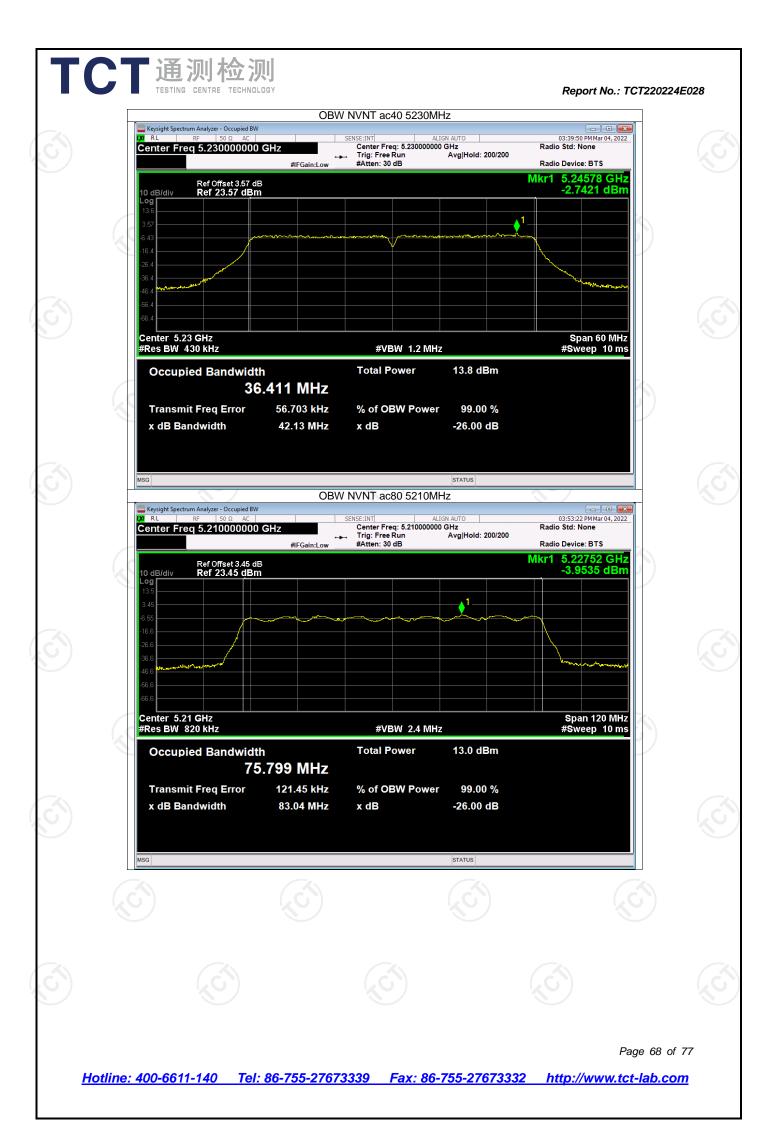




通测检测 TESTING CENTRE TECHNOLOGY	OBW NVNT n40 5190MH	2	Report No.: TC
Keysight Spectrum Analyzer - Occupied BW           X         RL         RF         50 Ω         AC	SENSE:INT ALIG	N AUTO	03:23:29 PM Mar 04, 2022
Center Freq 5.190000000 GHz	Center Freq: 5.190000000 Trig: Free Run		Radio Std: None
#IFGain	:Low #Atten: 30 dB		Radio Device: BTS Mkr1 5.20146 GHz
Ref Offset 3.45 dB 10 dB/div Ref 23.45 dBm Log			-3.6612 dBm
13.5			
-6.55	American and a start a start a	o	~
-16.6			
-36.6			A A A A A A A A A A A A A A A A A A A
-46.6			
-66.6			
Center 5.19 GHz #Res BW 430 kHz	#VBW 1.2 MHz		Span 60 MHz #Sweep 10 ms
	Total Power	13.2 dBm	#Sweep To his
Occupied Bandwidth 36.413 M			
Transmit Freq Error 69.691		99.00 %	
x dB Bandwidth 42.67 M		-26.00 dB	
MSG	OBW NVNT n40 5230MHz	STATUS	
Keysight Spectrum Analyzer - Occupied BW			
RL RF 50Ω AC     Center Freq 5.230000000 GHz	SENSE:INT ALIG	N AUTO 3Hz Avg Hold: 200/200	03:28:23 PM Mar 04, 2022 Radio Std: None
#IFGain			Radio Device: BTS Mkr1 5.24152 GHz
Ref Offset 3.57 dB 10 dB/div Ref 23.57 dBm			-2.8268 dBm
Log 13.6		. 1	
-6.43	many many many many many many many many	and the second s	~
-16.4			
-36.4 -46.4			Manufactor of a start of
-46.4			
-66.4			
Center 5.23 GHz #Res BW 430 kHz	#VBW 1.2 MHz		Span 60 MHz #Sweep 10 ms
Occupied Bandwidth	Total Power	13.9 dBm	
36.467 MI			
Transmit Freq Error 71.258 I		99.00 %	
x dB Bandwidth 42.83 N	IHz x dB	-26.00 dB	
MSG		STATUS	
		SINISS	



通测检测 TESTING CENTRE TECHNOLOGY	OBW NVNT ac20 5240M	Hz	Report No.: TCT.
Keysight Spectrum Analyzer - Occupied BW           Image: Market Analyzer - Control and the second		IGN AUTO	03:11:54 PM Mar 04, 2022
Center Freq 5.240000000 GHz	Center Freq: 5.24000000		Radio Std: None
	ain:Low #Atten: 30 dB		Radio Device: BTS Mkr1 5.2463 GHz
Ref Offset 3.61 dB 10 dB/div <b>Ref 23.61 dBm</b> Log			-3.4023 dBm
3.61		1	
6.39	and and a second a	-	
-16.4			
-36.4			mar man mar and and
-46.4			
-66.4			
Center 5.24 GHz #Res BW 200 kHz	#VBW 620 kH	Z	Span 30 MHz #Sweep  10 ms
Occupied Bandwidth	Total Power	13.4 dBm	_
17.630 N	IHz		
Transmit Freq Error 47.92	7 kHz % of OBW Power	99.00 %	
x dB Bandwidth 20.96	MHz x dB	-26.00 dB	
MSG		STATUS	
	OBW NVNT ac40 5190M	Hz	
Keysight Spectrum Analyzer - Occupied BW           RL         RF         50 Ω         AC           Center Freq 5.190000000 GHz	SENSE:INT AL	IGN AUTO	03:34:21 PM Mar 04, 2022 Radio Std: None
	ain:Low #Atten: 30 dB	Avg Hold: 200/200	Radio Device: BTS
Ref Offset 3.45 dB 10 dB/div Ref 23.45 dBm			Mkr1 5.20578 GHz -3.5388 dBm
3.45			
-16.6	Y		
-26.6			
-46.6 44.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.			and a general second
-66.6			
Center 5.19 GHz			Span 60 MHz
#Res BW 430 kHz	#VBW 1.2 MH:		#Sweep 10 ms
Occupied Bandwidth 36.368 N	Total Power 시니フ	13.1 dBm	
Transmit Freq Error 56.36		99.00 %	
x dB Bandwidth 42.25	MHz x dB	-26.00 dB	
x dB Bandwidth 42.25	MHz x dB	-26.00 dB	
	MHz x dB		
x dB Bandwidth 42.25	MHz x dB	-26.00 dB	
	MHz x dB		



## Maximum Power Spectral Density Level

TCT通测检测 TESTING CENTRE TECHNOLOGY

Maximum Power Spectral Density Level							
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict		
NVNT	а	5180	-4.85	11	Pass		
NVNT	а	5200	-4.86	11	Pass		
NVNT	а	5240	-4.6	11	Pass		
NVNT	n20	5180	-5.53	11	Pass		
NVNT	n20	5200	-5.36	11	Pass		
NVNT	n20	5240	-4.68	11	Pass		
NVNT	n40	5190	-8.23	11	Pass		
NVNT	n40	5230	-7.43	11	Pass		
NVNT	ac20	5180 🔍	-5.54	11	Pass		
NVNT	ac20	5200	-5.41	11	Pass		
NVNT	ac20	5240	-4.65	11	Pass		
NVNT	ac40	5190	-8.12	11	Pass		
NVNT	ac40	5230	-7.4	11	Pass		
NVNT	ac80	5210	-11.31	11	Pass		

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