

TESTING CENTRE TEC	TEST REPOR	T			
FCC ID:	2BNNN-G10				
Test Report No::	TCT250123E003	TCT250123E003			
Date of issue::	Mar. 24, 2025				
Testing laboratory:	SHENZHEN TONGCE TESTING	S LAB			
Testing location/ address:	2101 & 2201, Zhenchang Factor Fuhai Subdistrict, Bao'an District 518103, People's Republic of Ch	, Shenzhen, Guangdong,			
Applicant's name::	WaveCraft Studio LLC				
Address::	1 Mason Ln, Irvine, CALIFORNIA	A 92618, United States			
Manufacturer's name:	WaveCraft Studio LLC				
Address:	1 Mason Ln, Irvine, CALIFORNIA	A 92618, United States			
Standard(s):	FCC CFR Title 47 Part 15 Subpart E Section 15.407 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01				
Product Name::	Window Cam G10				
Trade Mark::	N/A				
Model/Type reference:	G10S, G10G, G10, A-CW8341C	-H, CW8341C			
Rating(s)::	Refer to EUT description of page	3			
Date of receipt of test item:	Jan. 23, 2025				
Date (s) of performance of test:	Jan. 23, 2025 ~ Mar. 24, 2025				
Tested by (+signature):	Yannie ZHONG	Yannie Zangces			
Check by (+signature):	Beryl ZHAO	Boyl 2 TCT)			
Approved by (+signature):	Tomsin	Jomsie's			

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1. General Product Information

# 1.1. EUT description

Product Name:	Window Cam G10		
Model/Type reference:	G10S		
Sample Number:	TCT250123E001-0101		
Operation Frequency:	Band 1: 5180 MHz ~ 5240 MHz Band 3: 5745 MHz ~ 5825 MHz	(0)	
Channel Bandwidth::	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz 802.11ax: 20MHz, 40MHz		
Modulation Technology:	Orthogonal Frequency Division Multiplexing	(OFDM)	
Modulation Type:	256QAM, 64QAM, 16QAM, BPSK, QPSK	(C)	
Antenna Type:	Chip Antenna		
Antenna Gain:	Band 1: 1.77dBi Band 3: 2.04dBi		
Rating(s):	Adapter Information 1/2: MODEL: BS05A-0501000US INPUT: AC 100-240V, 50/60Hz, 0.25A Max OUTPUT: DC 5V, 1000mA Adapter Information 3: Model: CS-0501000 Input: AC 100-240V, 50/60Hz, 0.5A Max. Output: DC 5V, 1.0A		

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

# 1.2. Model(s) list

No.	Model No.	Tested with
	G10S	
Other models	G10G, G10, A-CW8341C-H, CW8341C	

Note: G10S is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names, image pixel, flash memory capacity and product appearance color. So the test data of G10S can represent the remaining models.

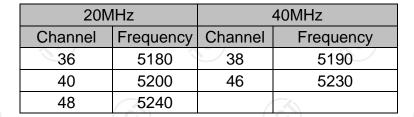
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# 1.3. Test Frequency

### Band 1



#### Band 3

20MHz		40MHz		
Channel	Frequency	Channel	Frequency	
149	5745	151	5755	
157	5785	159	5795	
165	5825			

#### 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

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
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

#### 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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3. General Information

## 3.1. Test environment and mode

Operating Environment:					
Condition	Conducted Emission	Radiated Emission			
Temperature:	24.8 °C	24.9 °C			
Humidity:	54 % RH	50 % RH			
Atmospheric Pressure:	1010 mbar	1010 mbar			
Test Software:					
Software Information:	SSCOM V5.13.1				
Power Level:	10				
Test Mode:					
Engineer mode:  Keep the EUT in continuous transmitting by select channel and modulations with max duty cycle.					

The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

# Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	6.5 Mbps
802.11n(HT40)	13.5 Mbps
802.11ac(VHT20)	6.5 Mbps
802.11ac(VHT40)	13.5 Mbps
802.11ax(HE20)	6.5Mbps
802.11ax(HE40)	13.5Mbps

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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
1	1	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.



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4. Facilities and Accreditations

#### 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

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic

Development Canada for radio equipment testing.

# 4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, 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

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# 5. Test Results and Measurement Data

# 5.1. Antenna requirement

Standard requirement:

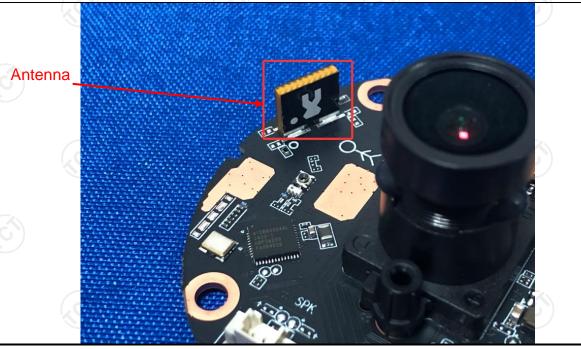
FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### E.U.T Antenna:

The WIFI antenna is chip antenna which permanently attached, and the best case gain of the antenna is 2.04dBi of UNII-3.



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# 5.2. Conducted Emission

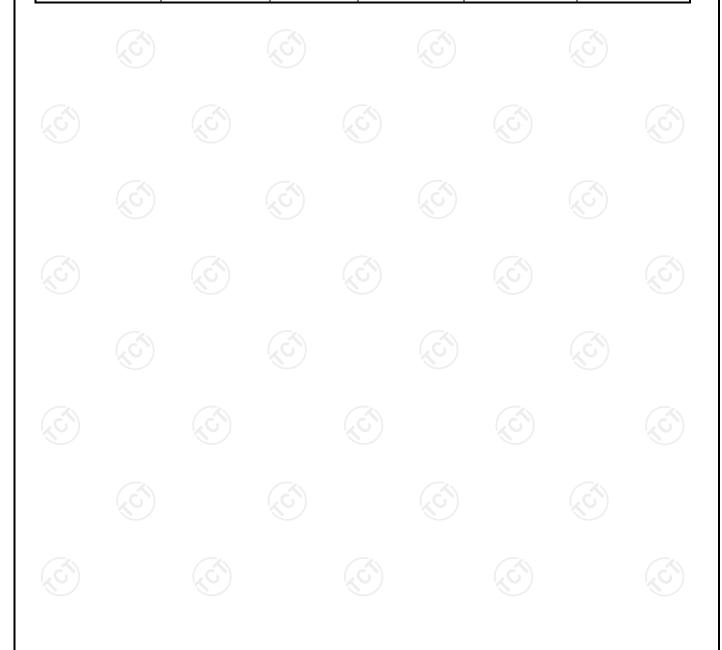
# 5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207			
Test Method:	ANSI C63.10:2020			
Frequency Range:	150 kHz to 30 MHz			
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto	
Limits:	Frequency range (MHz) 0.15-0.5	Limit ( Quasi-peak 66 to 56*	dBuV) Average 56 to 46*	
Lillints.	0.13-0.5 0.5-5 5-30	56 60	46 50	
Test Setup:	Remark E.U.T AC power  Test table/Insulation plane  Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m			
Test Mode:	Transmitting Mode			
Test Procedure:	<ol> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2020 on conducted measurement.</li> </ol>			
Test Result:	PASS			



## 5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)							
Equipment	Equipment Manufacturer Model Serial Number Date of Cal. Due Date						
EMI Test Receiver	R&S	ESCI3	100898	Jun. 27, 2024	Jun. 26, 2025		
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 21, 2025	Jan. 20, 2026		
Attenuator	N/A	10dB	164080	Jun. 27, 2024	Jun. 26, 2025		
Line-5	TCT	CE-05	1	Jun. 27, 2024	Jun. 26, 2025		
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2		180		

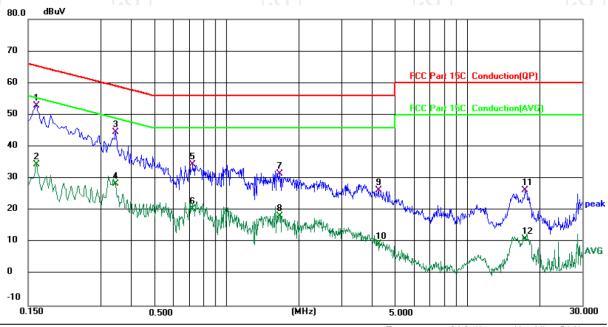




#### 5.2.3. Test data

### Please refer to following diagram for individual

### Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Temperature: 24.8 (°C)

Humidity: 54 %

Report No.: TCT250123E003

Limit: FCC Part 15C Conduction(QP)

Power: AC 120V/60Hz

Phase: L1

Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV dBuV dB Detector Comment 52.99 0.1620 43.04 9.95 65.36 -12.37 QP 1 2 0.1620 24.45 9.95 34.40 55.36 -20.96 AVG 44.54 QΡ 0.3457 34.61 9.93 59.07 -14.53 3 0.3457 18.34 9.93 28.27 49.07 -20.80 AVG 4 0.7258 34.50 56.00 -21.50 QP 5 24.60 9.90 6 0.7258 10.66 9.90 20.56 46.00 -25.44 **AVG** 7 1.6700 21.57 31.56 56.00 -24.44 QP 9.99 8 1.6700 8.33 9.99 18.32 46.00 -27.68 **AVG** QP 9 4.2900 16.23 10.12 26.35 56.00 -29.65 4.2900 -0.7210.12 9.40 46.00 -36.60 **AVG** 10 11 17.3460 15.91 10.52 26.43 60.00 -33.57 QP 12 17.3460 0.59 10.52 11.11 50.00 -38.89 **AVG** 

#### Note:

Freq. = Emission frequency in MHz

Reading level  $(dB\mu V)$  = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement  $(dB\mu V)$  = Reading level  $(dB\mu V)$  + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB $\mu$ V) – Limits (dB $\mu$ V)

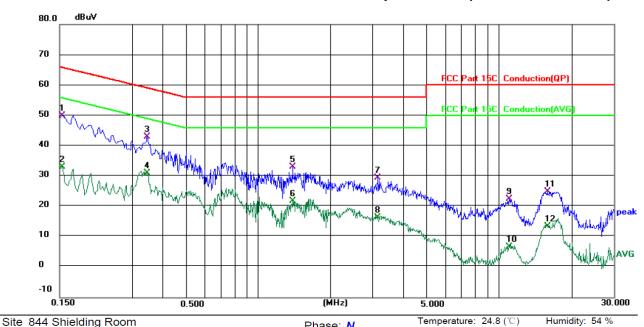
Q.P. =Quasi-Peak

AVG =average

<sup>\*</sup> is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



### Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Limit: FCC Part 15C Conduction(QP)

Phase: N Power: AC 120V/60Hz Temperature: 24.8 (°C) Humidity: 54 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1539	40.08	9.94	50.02	65.79	-15.77	QP	
2		0.1539	23.04	9.94	32.98	55.79	-22.81	AVG	
3		0.3457	33.07	9.93	43.00	59.07	-16.07	QP	
4		0.3457	21.08	9.93	31.01	49.07	-18.06	AVG	
5		1.3900	22.98	10.00	32.98	56.00	-23.02	QP	
6		1.3900	11.89	10.00	21.89	46.00	-24.11	AVG	
7		3.1538	19.36	10.07	29.43	56.00	-26.57	QP	
8		3.1538	6.28	10.07	16.35	46.00	-29.65	AVG	
9		11.0579	12.09	10.37	22.46	60.00	-37.54	QP	
10		11.0579	-3.64	10.37	6.73	50.00	-43.27	AVG	
11		15.9500	14.44	10.50	24.94	60.00	-35.06	QP	
12		15.9500	2.98	10.50	13.48	50.00	-36.52	AVG	

#### Note:

Freq. = Emission frequency in MHz

Reading level  $(dB\mu V)$  = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement ( $dB\mu V$ ) = Reading level ( $dB\mu V$ ) + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$ 

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$ 

Q.P. =Quasi-Peak

AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ax(HE20), 802.11ax(HE40)) and the worst case Mode (Lowest channel and 802.11a) was submitted only. And the test data in this project is powered by adapter 1 which is in the worse case.

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# 5.3. Maximum Conducted Output Power

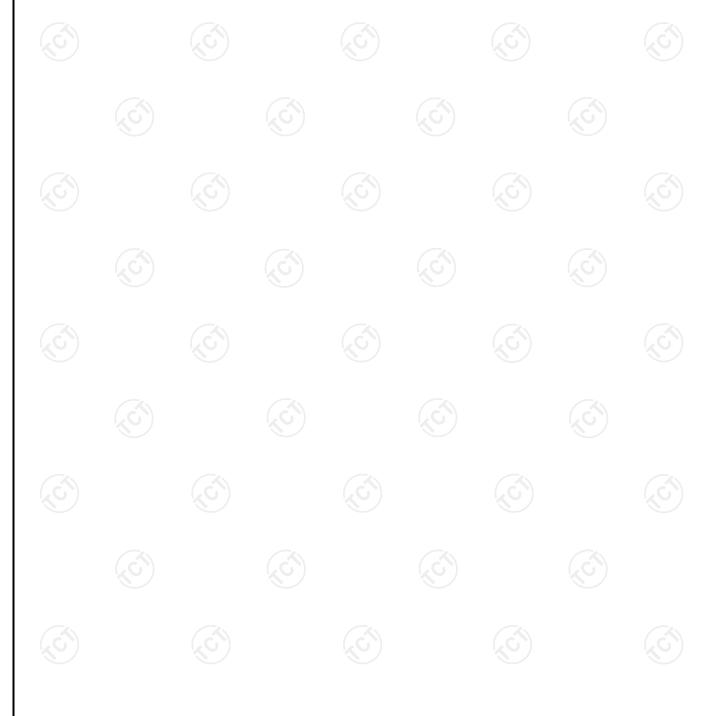
# 5.3.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)& Part 2 J Section 2.1046					
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E					
	Frequency Band (MHz)	Limit				
	5180 - 5240	24dBm(250mW) for client device				
Limit:	5260 - 5320 5470 - 5725	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz 24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz				
	5745 - 5825	30dBm(1W)				
Test Setup:	Power meter EUT					
Test Mode:	Transmitting mode w	vith modulation				
Test Procedure:	<ol> <li>The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a</li> <li>The RF output of EUT was connected to the power meter by RF cable. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Measure the conducted output power and record the results in the test report.</li> </ol>					
Test Result:	results in the test report.  PASS					



## 5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Power Meter	Agilent	E4418B	MY45100357	Jun. 27, 2024	Jun. 26, 2025
Power Sensor	Agilent	8184A	MY41096530	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	1	1	





# 5.4. 6dB Emission Bandwidth

# 5.4.1. Test Specification

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 EUT				
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 (S)				

### 5.4.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	5) /	(3)	1(6)

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# 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 No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/		1

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# 5.6. Power Spectral Density

# 5.6.1. Test Specification

FCC Part15 E Section 15.407 (a)				
KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F				
≤11.00dBm/MHz for Band 1 5150MHz-5250MHz(client device) ≤11.00dBm/MHz for Band 2A&2C 5250-5350&5470-5725 ≤30.00dBm/500KHz for Band 3 5725MHz-5850MHz The e.i,r,p spectral density for Band 1 5150MHz – 5250 MHz should not exceed 10dBm/MHz				
Spectrum Analyzer EUT				
Transmitting mode with modulation				
<ol> <li>Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.</li> <li>Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS.</li> <li>Allow the sweeps to continue until the trace stabilizes.</li> <li>Use the peak marker function to determine the maximum amplitude level.</li> <li>The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near</li> </ol>				
l'				

# 5.6.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/	/

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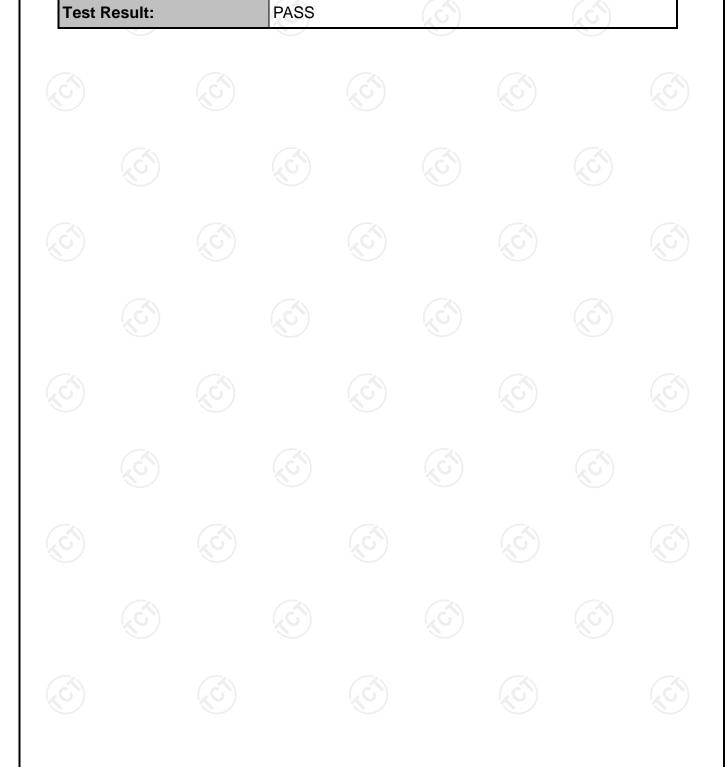
5.7. Band edge

# 5.7.1. Test Specification

Test Requirement:	FCC CFR47 Pa	rt 15E Sectio	n 15.407	ÇĆ			
Test Method:	ANSI C63.10:20	020					
	In un-restricted band: For Band 1&2A&2C: -27dBm/MHz For Band 3:						
	Frequency (MHz)	Limit (dBm/MHz)	Frequency (MHz)	Limit (dBm/MHz)			
	< 5650	-27	5850~5855	27~15.6			
Limit:	5650~5700	-27~10	5855~5875	15.6~10			
	5700~5720 5720~5725	10~15.6 15.6~27	5875~5925 > 5925	10~-27 -27			
	E[dBµV/m] = EIR In restricted band	P[dBm] + 95.2	? @3m				
	Detec		Limit@				
	Peal		74dBµ				
	AVG		54dBµ	IV/M			
Test Setup:	80 cm	Sors Arterna Jones  (Tiermanue)  Ground Salemon Plate  Test Fiecewer  Ground Salemon Plate  Ground Salemon Plate					
Test Mode:	Transmitting mo	ode with mode	ulation	NO.			
Test Procedure:	meters above the was rotated 360 highest radiation 2. The EUT was interference-received the top of a variance of the antenna meters above the value of the field polarizations of measurement.  4. For each sus to its worst case heights from 1 received from 0 demaximum readiance.	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 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					

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	Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then reported in a data sheet.





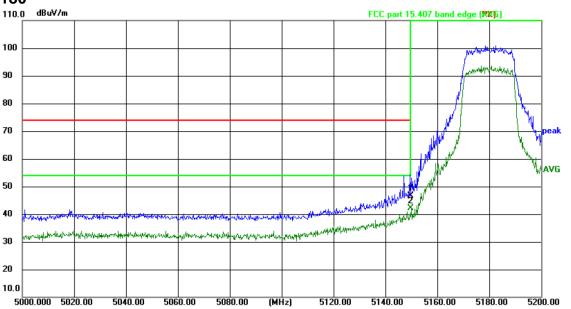
# 5.7.2. Test Instruments

	Radiated Emission Test Site (966)						
Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date		
EMI Test Receiver	R&S	ESCI7	100529	Jan. 21, 2025	Jan. 20, 2026		
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 27, 2024	Jun. 26, 2025		
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Jan. 21, 2025	Jan. 20, 2026		
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Jan. 21, 2025	Jan. 20, 2026		
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024	Jun. 26, 2025		
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 27, 2024	Jun. 26, 2025		
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 29, 2024	Jun. 28, 2025		
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 29, 2024	Jun. 28, 2025		
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Jan. 23, 2025	Jan. 22, 2026		
Coaxial cable	SKET	RE-03-D	/	Jun. 27, 2024	Jun. 26, 2025		
Coaxial cable	SKET	RE-03-M	1-	Jun. 27, 2024	Jun. 26, 2025		
Coaxial cable	SKET	RE-03-L		Jun. 27, 2024	Jun. 26, 2025		
Coaxial cable	SKET	RE-04-D	/	Jun. 27, 2024	Jun. 26, 2025		
Coaxial cable	SKET	RE-04-M	/	Jun. 27, 2024	Jun. 26, 2025		
Coaxial cable	SKET	RE-04-L	/	Jun. 27, 2024	Jun. 26, 2025		
Antenna Mast	Keleto	RE-AM	/	/	/		
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	1	) 1		





5.7.3. Test Data AX20-5180



Site: 3m Anechoic Chamber Po Limit: FCC part 15.407 band edge (PK)

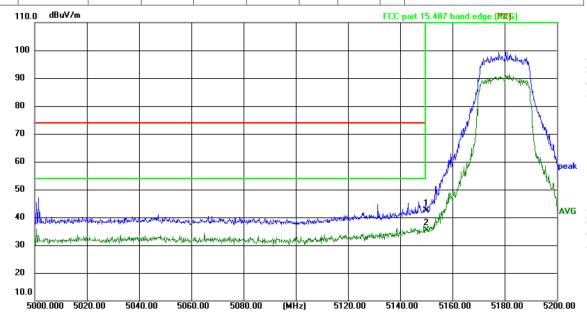
Polarization: *Horizontal* Temperature: 23.5(°C)

Power:AC 120 V/60 Hz

Humidity: 47 %

Report No.: TCT250123E003

ч.				•						
	No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
	1	5150.000	54.57	-7.87	46.70	74.00	-27.30	peak	Р	
	2 *	5150.000	50.10	-7.87	42.23	54.00	-11.77	AVG	Р	



Site: 3m Anechoic Chamber

Polarization: Vertical

Temperature: 23.5(℃)

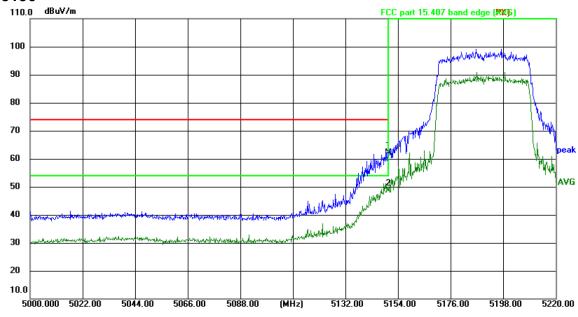
Humidity: 47 %

Limit: FCC part 15.407 band edge (PK)

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	50.16	-7.87	42.29	74.00	-31.71	peak	Р	
2 *	5150.000	43.37	-7.87	35.50	54.00	-18.50	AVG	Р	



### AX40-5190

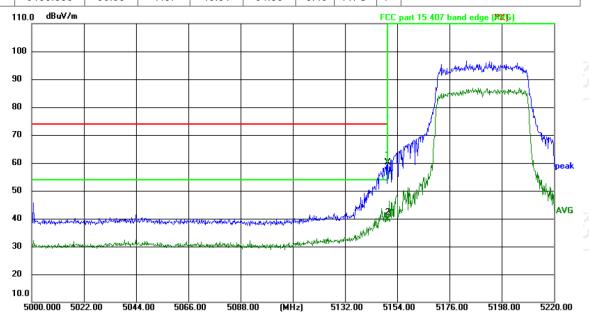


Site: 3m Anechoic Chamber Polarization: Horizontal Temperature: 23.5(°C) Humidity: 47 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	70.11	-7.87	62.24	74.00	-11.76	peak	Р	
2 *	5150.000	56.38	-7.87	48.51	54.00	-5.49	AVG	Р	



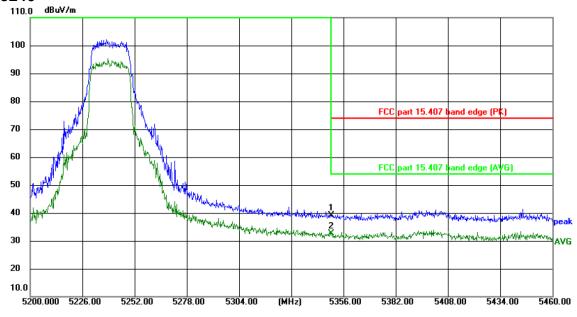
Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 23.5(°C) Humidity: 47 %

Limit: FCC part 15.407 band edge (PK)

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5150.000	68.03	-7.87	60.16	74.00	-13.84	peak	Р	
2	5150.000	47.58	-7.87	39.71	54.00	-14.29	AVG	Р	



### AX20-5240

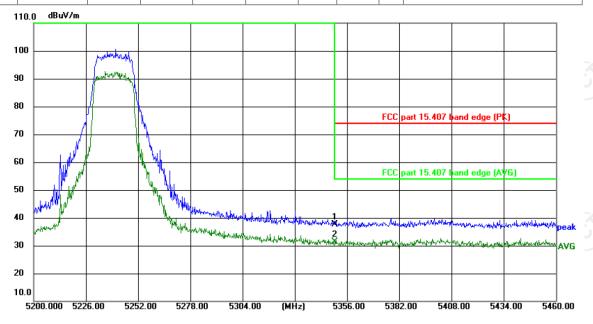


Site: 3m Anechoic Chamber Polarization: *Horizontal* Temperature: 23.5(°C) Humidity: 47 %

Limit: FCC part 15.407 band edge (PK)

Power:AC 120 V/60 Hz

	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
	1	5350.000	46.88	-7.67	39.21	74.00	-34.79	peak	Р	
Ī	2 *	5350.000	40.27	-7.67	32.60	54.00	-21.40	AVG	Р	



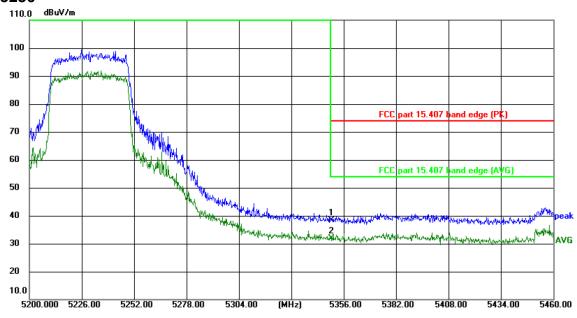
Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 23.5(°C) Humidity: 47 %

Limit: FCC part 15.407 band edge (PK)

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	45.18	-7.67	37.51	74.00	-36.49	peak	Р	
2 *	5350.000	39.09	-7.67	31.42	54.00	-22.58	AVG	Р	



### AX40-5230

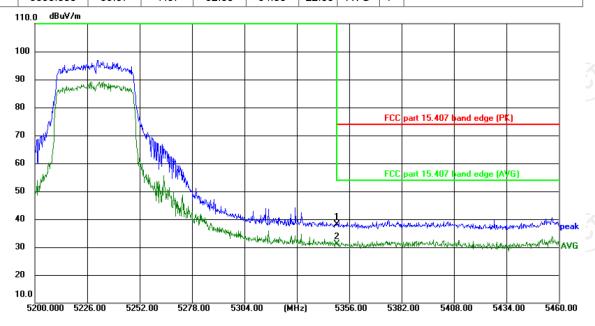


Site: 3m Anechoic Chamber Polarization: Horizontal Temperature: 23.5(°C) Humidity: 47 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	45.97	-7.67	38.30	74.00	-35.70	peak	Р	
2 *	5350 000	39 67	-7.67	32 00	54 00	-22 00	AVG	Р	



Site: 3m Anechoic Chamber Polarization: *Vertical* Temperature: 23.5(°C) Humidity: 47 %

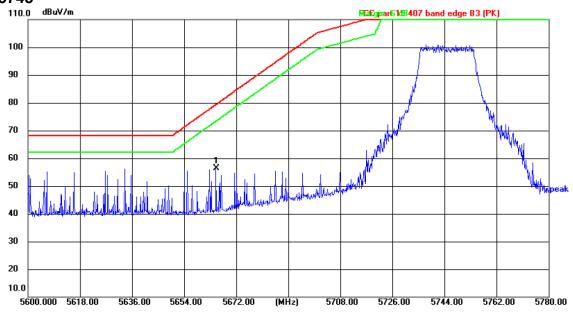
Limit: FCC part 15.407 band edge (PK)

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	45.75	-7.67	38.08	74.00	-35.92	peak	Р	
2 *	5350.000	38.69	-7.67	31.02	54.00	-22.98	AVG	Р	



Humidity: 47 %

### AX20-5745

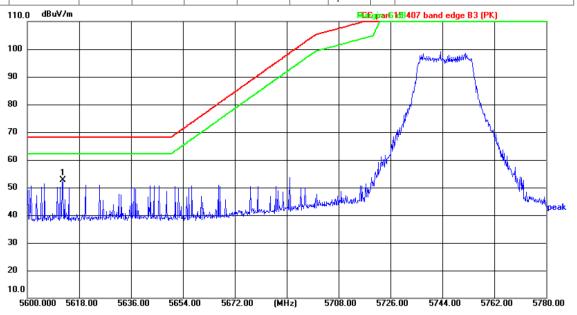


Site: 3m Anechoic Chamber Polarization: *Horizontal*Limit: FCC part 15.407 band edge B3 (PK) Power: A

Power: AC 120 V/60 Hz

Temperature: 23.5(°C)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5665.142	63.26	-6.98	56.28	79.41	-23.13	peak	Р	



Site: 3m Anechoic Chamber

Polarization: Vertical

Temperature: 23.5(°C)

Humidity: 47 %

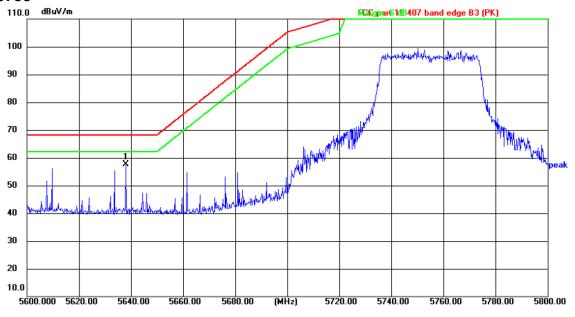
Limit: FCC part 15.407 band edge B3 (PK)

	No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
4	1 *	5612.294	59.68	-7.17	52.51	68.20	-15.69	peak	Р	



Humidity: 47 %

#### AX40-5755

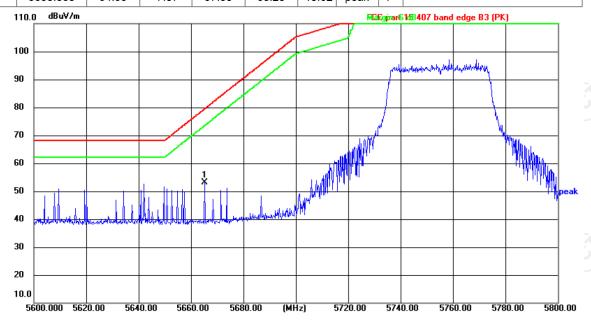


Site: 3m Anechoic Chamber Polarization: Horizontal Temperature: 23.5(°C)

Limit: FCC part 15.407 band edge B3 (PK)

Frequency Reading Factor Level Limit Margin Detector P/F No. Remark (MHz) (dB/m) (dBuV/m) (dBuV/m) (dB) (dBuV) 1 \* 5638.060 64.65 -7.07 57.58 68.20 -10.62 peak

Power: AC 120 V/60 Hz



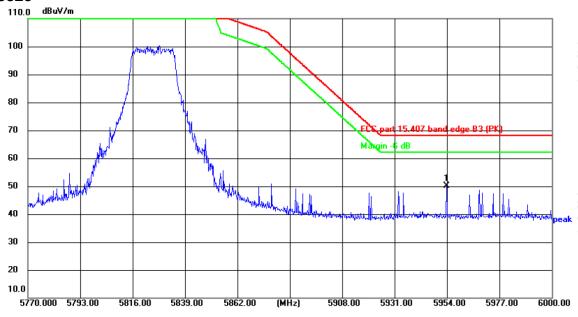
Site: 3m Anechoic Chamber Polarization: Vertical Temperature: 23.5(°C) Humidity: 47 %

Limit: FCC part 15.407 band edge B3 (PK)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5665.240	60.04	-6.98	53.06	79.48	-26.42	peak	Р	



### AX20-5825



Site: 3m Anechoic Chamber P

Polarization: Horizontal

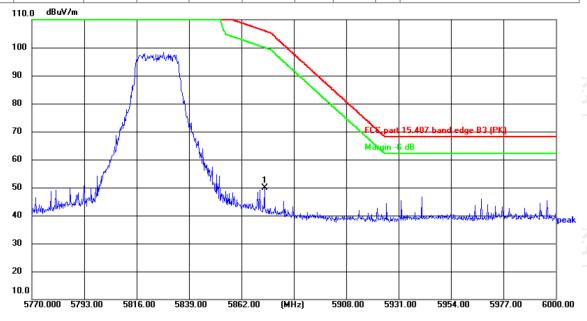
Temperature: 23.5(℃)

Humidity: 47 %

Limit: FCC part 15.407 band edge B3 (PK	)
---	---

P	ower:A0	2 120 V/	60 H	Z
Limit	Margin	Detector	P/F	Remar

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5953.862	55.67	-5.66	50.01	68.20	-18.19	peak	Р	



Site: 3m Anechoic Chamber

Polarization: Vertical

Temperature: 23.5(℃)

Humidity: 47 %

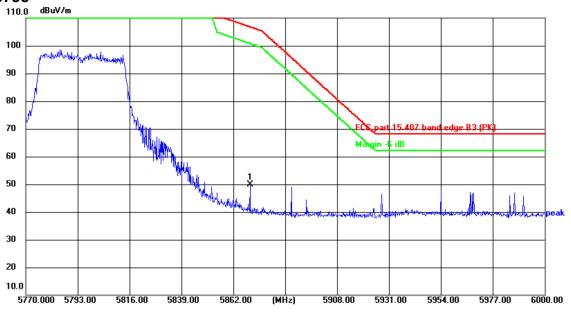
Limit: FCC part 15.407 band edge B3 (PK)

No.	Frequency (MHz)			Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5872.281	56.06	-6.06	50.00	105.96	-55.96	peak	Р	



Humidity: 47 %

### AX40-5795



Limit: FCC part 15.407 band edge B3 (PK)

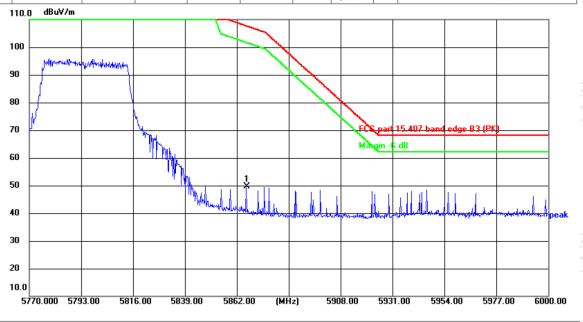
Site: 3m Anechoic Chamber

Power:AC 120 V/60 Hz

Temperature: 23.5(°C)

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5869.475	56.06	-6.07	49.99	106.75	-56.76	peak	Р	

Polarization: *Horizontal* 



Site: 3m Anechoic Chamber

Polarization: Vertical

Temperature: 23.5(°C)

Humidity: 47 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5866.232	55.78	-6.08	49.70	107.66	-57.96	peak	Р	

Note: All modulation (802.11a, 802.11n, 802.11ac, 802.11ax) have been tested, only the worst case in 802.11ax be reported.

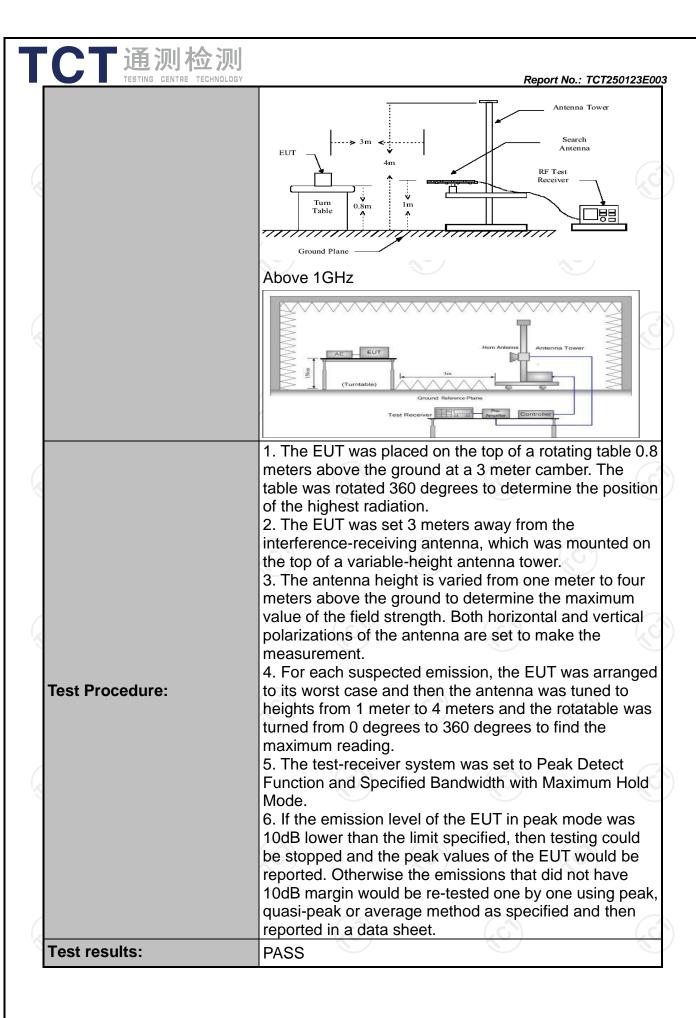


5.8. Unwanted Emissions

# 5.8.1. Test Specification

Test Requirement:	FCC CFR47	Part 15 S	ection 15.	407 & 1	5.209 & 15.205				
Test Method:	KDB 789033	D02 v02	r01	(0)	100				
Frequency Range:	9kHz to 40G	mitting mode with modulation							
Measurement Distance:	3 m	(.							
Antenna Polarization:	Horizontal &	Horizontal & Vertical							
Operation mode:	Transmitting	mode wit	h modulat	ion					
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz Above 1GHz	Quasi-peak Quasi-peak Quasi-peak Peak	200Hz 9kHz 120KHz 1MHz	1kHz 30kHz 300KHz 3MHz	Quasi-peak Value Quasi-peak Value  Quasi-peak Value Peak Value				
Limit:	per FCC Par general field below table, In restricted Frequency 0.009-0.490 0.49 -1.705 1.705-30 30-88 88-216 216-960 Above 960	t15.205 s strength bands:	Detection Pea AVC Field Strengti (microvolts/m 2400/F(KHz) 24000/F(KHz) 30 100 150 200 500	y with the store k	Limit@3m 74dBµV/m 54dBµV/m Measurement Distance (meters) 300 3 30 3 3				
Test setup:	Di	Turn table	lm [	Pre -	Amplifier				

Report No.: TCT250123E003





# 5.8.2. Test Instruments

	F	Radiated Emission	n Test Site (966)		
Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
EMI Test Receiver	R&S	ESCI7	100529	Jan. 21, 2025	Jan. 20, 2026
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 27, 2024	Jun. 26, 2025
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Jan. 21, 2025	Jan. 20, 2026
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Jan. 21, 2025	Jan. 20, 2026
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024	Jun. 26, 2025
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 27, 2024	Jun. 26, 2025
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 29, 2024	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 29, 2024	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Jan. 23, 2025	Jan. 22, 2026
Coaxial cable	SKET	RE-03-D	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	12	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L		Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	/	Jun. 27, 2024	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	/	/	/
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	1	) 1





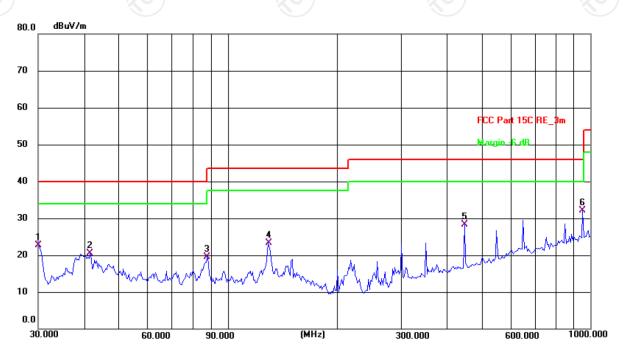
5.8.3. Test Data

Report No.: TCT250123E003

### Please refer to following diagram for individual

#### **Below 1GHz**

Horizontal:



Site: 3m Anechoic Chamber1 Polarization: Horizontal Temperature: 24.9(C) Humidity: 50 %

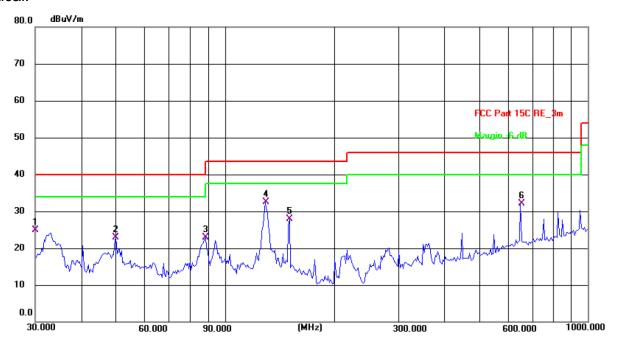
Limit: FCC Part 15C RE\_3m Power: AC 120 V/ 60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	30.0000	35.58	-12.90	22.68	40.00	-17.32	QP	Р	
2	41.7129	32.58	-12.09	20.49	40.00	-19.51	QP	Р	
3	87.7245	36.12	-16.62	19.50	40.00	-20.50	QP	Р	
4	129.0142	35.90	-12.65	23.25	43.50	-20.25	QP	Р	
5	449.5557	36.68	-8.30	28.38	46.00	-17.62	QP	Р	
6 *	952.0937	31.88	0.28	32.16	46.00	-13.84	QP	Р	





## Vertical:



Site: 3m Anechoic Chamber1 Polarization: Vertical Temperature: 24.9(C) Humidity: 50 %

Power: AC 120 V/ 60 Hz

Limit: FCC Part 15C RE 3m

			_							
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
	1	30.0000	37.78	-12.90	24.88	40.00	-15.12	QP	Р	
	2	50.0566	35.19	-12.28	22.91	40.00	-17.09	QP	Р	
	3	88.3421	39.64	-16.67	22.97	43.50	-20.53	QP	Р	
	4 *	129.0144	45.15	-12.65	32.50	43.50	-11.00	QP	Р	
	5	150.5377	39.17	-11.27	27.90	43.50	-15.60	QP	Р	
Ì	6	651.9416	36.15	-4.01	32.14	46.00	-13.86	QP	Р	

- **Note:** 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported
  - 2. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ax(HE20), 802.11ax(HE40)) and the worst case Mode (Lowest channel and 802.11a) was submitted only. And the test data in this project is powered by adapter 1 which is in the worse case.
  - 3.Measurement ( $dB\mu V$ ) = Reading level + Correction Factor, correction Factor= Antenna Factor + Cable loss Pre-amplifier.



			N	Modulation Ty	pe: Band 1				
				11a CH36: 5					
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10360	Н	52.14		1.78	53.92		68.2		-14.28
15540	4	39.07		5.21	44.28		74	54	-9.72
	(H)		<del>(,</del> c)		(, (	)		(, G <del></del> )	
-							•		
10360	V	50.36		1.78	52.14		68.2		-16.06
15540	V	40.85		5.21	46.06		74	54	-7.94
(6)	V	(		7.0		(	<u></u>		
				11a CH40: (	5200MHz				
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10400	Н	51.53		1.83	53.36		68.2		-14.84
15600	Н	38.28		5.23	43.51		74	54	-10.49
<b>/</b>	Н			( )			Z		
(0)		((0))		Ĭζ.	)	,	(0)		KO.
10400	V	52.12		1.83	53.95		68.2		-14.25
15600	V	39.79		5.23	45.02		74	54	-8.98
	V		<del></del>			X		<u></u>	
				11a CH48: 5	5240MHz				
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissic	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10480	Н	52.69		1.85	54.54		68.2		-13.66
15720	Н	39.04		5.25	44.29		74	54	-9.71
	Н								
						-:\\			
10480	V	51.17		1.85	53.02	<i></i>	68.2	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-15.18
15720	V	39.23		5.25	44.48		74	54	-9.52
	V								
			111	n(HT20) CH3	36: 5180MH	łz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10360	(H)	50.47	-4,0	1.78	52.25	5)	68.2	(, C-)	-15.95
15540	Н	39.82		5.21	45.03	/ <u></u>	74	54	-8.97
	Н								
10360	V	51.13		1.78	52.91	(	68.2		-15.29
	,	51.13 37.58		1.78 5.21	52.91 42.79	(	68.2 74	 54	-15.29 -11.21



			11	n(HT20) CH	40: 5200MH	-lz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction Factor	Emissio	n Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
( 12)	1 1, 0	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(αΣμ τ/)	(05/4 7/11)	(42)
10400	Н	52.04		1.83	53.87		68.2		-14.33
15600	Н	39.18		5.23	44.41		74	54	-9.59
	Н								
	(G)		(, G)					(c)	
10400	V	49.25		1.83	51.08	<i></i>	68.2	<b>\</b>	-17.12
15600	V	38.66		5.23	43.89		74	54	-10.11
	V								
				n(HT20) CH	48: 5240MI	Нz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit		Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(dBµV/m)	(dBµV/m)	(dB)
10480	H	51.26	740	1.85	53.11	)	68.2	(42-)	-15.09
15720	H	39.37		5.25	44.62		74	54	-9.38
	Н								
	-					-		-	
10480	V	50.81		1.85	52.66		68.2		-15.54
15720	V	38.03		5.25	43.28		74	54	-10.72
	V								
			11	n(HT40) CH	38: 5190MH	Ηz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissi	on Level	Peak limit		Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10380	Н	52.47		1.80	54.27	/	68.2		-13.93
15570	Н	41.15		5.22	46.37		74	54	-7.63
	Н								
				•	-	•	•		
10380	V	52.83	( ^	1.80	54.63	<u></u>	68.2	-4	-13.57
15570	V	39.69	(0	5.22	44.91	9)	74	54	-9.09
	٧								
			11	n(HT40) CH	46: 5230MF	Ηz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit		Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak	AV	(dBµV/m)	(dBµV/m)	(dB)
40400		50.04		4.05	(dBµV/m)	, ,			40 = :
10460	H	52.81		1.85	54.66		68.2		-13.54
15690	(H)	37.14	- <del>-</del> (C	5.08	42.22	(`ز	74	54	-11.78
	Н								
10460	V	50.27		1.85	52.12		68.2		-16.08
	V							54	-10.83
15690	V	38.09		5.08	43.17		74	34 I	-10.03



			11ac	c(VHT20) CH	136: 5180M	lHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction Factor		on Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
(1011 12)	1 1/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(ασμν/ιιι)	(ασμ ν/ιιι)	(ub)
10360	Н	51.48		1.78	53.26		68.2		-14.94
15540	Н	37.52		5.21	42.73		74	54	-11.27
	Н							<u></u>	
	(G)		(.6)		(.0			(.c)	
10360	V	50.14		1.78	51.92	/	68.2	<u></u> /	-16.28
15540	V	38.23		5.21	43.44		74	54	-10.56
	V								
			11a	C(VHT20) CH	140: 5200M	lHz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10400	K H)	51.24	140	1.83	53.07	)	68.2	( <u>O</u> _)	-15.13
15600	H	38.96	)	5.23	44.19		74	54	-9.81
	Н								
				C					
10400	V	52.01		1.83	53.84	(	68.2		-14.36
15600	V	39.75		5.23	44.98		74	54	-9.02
	V								
11ac(VHT20) CH48:5240									
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10480	Н	50.17		1.85	52.02	/	68.2		-16.18
15720	Н	38.04		5.25	43.29	/	74	54	-10.71
	Н								
10480	V	50.96		1.85	52.81	<u></u>	68.2	-4	-15.39
15720	V	39.43	N. C.	5.25	44.68	)	74	54	-9.32
	٧							<u></u>	
			1	1ac(VHT40)	CH38:5190	)			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10380	Н	50.21		1.80	52.01		68.2		-16.19
15570	(cH)	38.59	4-6	5.22	43.81		74	54	-10.19
	H		-20		45.61	<del></del>			-10.19
				<u> </u>					
10380	V	53.77		1.80	55.57		68.2		-12.63
15570	V	38.03		5.22	43.25	/	74	54	-10.75
	V								



	TESTING C	ENTRE TECHNOL					Report	t No.: TCT25	0123E003
			11	ac(VHT40)	CH46:5230				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissi Peak	on Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
		(αυμν)		(ub/III)	(dBµV/m)				
10460	Н	52.01		1.85	53.86		68.2		-14.34
15690	Н	37.47		5.08	42.55		74	54	-11.45
	Н								
<del>.</del>						7.			
10460	(V)	52.83	<del>(.</del> 6`)	1.85	54.68		68.2	(.C <del>.2)</del>	-13.52
15690	V	39.25	-77	5.08	44.33	/	74	54	-9.67
	V								
			11a	x(HE20) CH3	36: 5180MH	łz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissi	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10360	Н	52.13		1.78	53.91	<b>(</b> )	68.2	4	-14.29
15540	H	39.47	-140	5.21	44.68	7)	74	54	-9.32
	Н								
					_				
10360	V	52.55		1.78	54.33	/	68.2		-13.87
15540	V	38.68		5.21	43.89		74	54	-10.11
	V								
				(HE20) CH4	40: 5200MH	<del>l</del> z			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	Emission Level P		AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(dBµV/m)	(dBµV/m)	(dB)
10400	Н	51.05		1.83	52.88		68.2		-15.32
15600	Н	38.23		5.23	43.46	/	74	54	-10.54
<u></u>	Н	( <del>-</del>			/	'4	<u> </u>		
10400	V	52.71		1.83	54.54		68.2		-13.66
15600	V	38.85		5.23	44.08		74	54	-9.92
	V				'	)		'\\ <del></del> /	
				1ax(HE20) (	CH48:5240				
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10480	Н	53.23		1.85	55.08		68.2		-13.12
15720	Н	38.47		5.25	43.72	-,	74	54	-10.28
	(,CH)		<del>(-</del> 6)		(.(	)		(, <u>c</u> , <u>-</u> )	
		!							
10480	V	52.96		1.85	54.81		68.2		-13.39
15720	V	37.02		5.25	42.27		74	54	-11.73
	V	(		( 6		/			



	TESTING (	CENTRE TECHNOL	.OGY				Report	No.: TCT250	123E003
			1	11ax(HE40) (	CH38:5190				
Frequency (MHz)		l reading l	AV reading	Correction Factor	Emissio	n Level	Peak limit (dBµV/m)		Margin (dB)
(IVIIIZ)	П/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(ασμν/ιιι)	(ασμν/ιιι)	
10380	Н	54.69		1.80	56.49	(,	68.2		-11.71
15570	Н	38.41		5.22	43.63		74	54	-10.37
	Н								
		T				<b>X</b>			
10380	(CV)	54.05	(-C)	1.80	55.85	٠ (``ر	68.2	( C- <del>-</del> )	-12.35
15570	V	37.24		5.22	42.46	/ <del></del>	74	54	-11.54
	V								
			•	11ax(HE40) (	CH46:5230				
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissi	on Level	Peak limit		Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10460	Н	53.17	/ []	1.85	55.02		68.2	4	-13.18
15690	H	37.38	7/0	5.08	42.46	//	74	54	-11.54
	Н								
10460	V	50.21	1	1 05	T 50.00	1	60.2	ı ı	10 11
10460	_	50.21		1.85	52.06	(	68.2		-16.14
15690	V	37.96		5.08	43.04		74	54	-10.96
	V								

#### Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/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.





			N	Modulation Ty	vpe: Band 3	3			
				11a CH149:	-				
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(dBµV/m)	(dBµV/m)	(dB)
11490	Н	42.56		2.48	45.04		74	54	-8.96
17235	H	51.04		6.50	57.54		68.2		-10.66
	H		+:0		(.c			(-2-)	
•									
11490	V	42.27		2.48	44.75		74	54	-9.25
17235	V	51.44		6.50	57.94		_68.2		-10.26
	V			(		(	<u></u>		
				11a CH157:	5785MHz				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak	on Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
		( )	( )	,	(dBµV/m)	(dBµV/m)			
11570	Ħ	41.17		2.42	43.59		74	54	-10.41
17355	Н	52.62		7.03	59.65		68.2		-8.55
	Н			(%					/X
(C)		$(C_{i})$		(AC)			(C)	•	(2C)
11570	V	40.53		2.42	42.95		74	54	-11.05
17355	V	52.21		7.03	59.24		68.2		-8.96
	V							<u></u>	
				11a CH165:	5825MHz				
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(dBµV/m)	(dBµV/m)	(dB)
11650	Н	40.35		2.41	42.76		74	54	-11.24
17475	Н	50.14		7.41	57.55		68.2		-10.65
	Н								
11650	V	41.68	70	2.41	44.09	٠	74	54	-9.91
17475	V	50.26		7.41	57.67		68.2		-10.53
	V								
			11r	n(HT20) CH1	49: 5745M	Hz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(dBµV/m)	(dBµV/m)	(dB)
11490	( <del>CH</del> )	41.97	+.0	2.48	44.45		74	54	-9.55
17235	H	52.23		6.50	58.73	)	68.2		-9.47
	Н								
					-	-	-	<u> </u>	
11490	V	41.47		2.48	43.95	/	74	54	-10.05
11490 17235	V	41.47 51.08		2.48 6.50	43.95 57.58	(	74 68.2	54 	-10.05 -10.62



			11r	n(HT20) CH1	57: 5785M	Hz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor		on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(dBµV/m)	(dBµV/m)	(dB)
11570	Н	41.35		2.42	43.77		74	54	-10.23
17355	Н	51.02		7.03	58.05		68.2		-10.15
	Н								
	(G)		(.G)		(.0	5		(G)	
11570	V	41.17		2.42	43.59	<i>/</i>	74	54	-10.41
17355	V	50.59		7.03	57.62		68.2		-10.58
	V								
				(HT20) CH1	65: 5825M	Hz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(dBµV/m)	(dBµV/m)	(dB)
11650	4	41.84	1	2.41	44.25	( ا	74	54	-9.75
17475	H	50.18	)	7.41	57.59		68.2	) !	-10.61
	Н								
11650	V	41.96		2.41	44.37		74	54	-9.63
17475	V	52.45		7.41	59.86		68.2		-8.34
	V								
			11r	(HT40) CH1	51: 5755M	Hz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11510	Н	41.56		2.47	44.03	/	74	54	-9.97
17265	Н	51.81		6.62	58.43		68.2		-9.77
	Н								
11510	V	41.45		2.47	43.92	<u> </u>	74	54	-10.08
17265	V	52.16	-1/0	6.62	58.78	9 )	68.2	(0-)	-9.42
	V								
			11r	(HT40) CH1	59: 5795M	Hz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
14500	LI	44.00		2.40	, , ,	, , ,		E A	0.04
11590	Н	41.96		2.40	44.36		74 69.2	54	-9.64 10.64
17385	H	50.41	-t.C	7.15	57.56	5)	68.2	$(G_2)$	-10.64
	Н								
11590	V	41.75		2.40	44.15		74	54	-9.85
17385	V	52.24		7.15	59.39		68.2		-8.81
	V			- X-O					
	V				/		<u> </u>		



			11ac	(VHT20) CH	1149: 5745	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)		on Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
		· · ·		, ,	(dBµV/m)	(dBµV/m)			
11490	Н	40.34		2.48	42.82		74	54	-11.18
17235	Н	52.15		6.50	58.65		68.2		-9.55
	Ŧ		-						
	(G)		(.c)		(.0			(G)	
11490	V	41.66		2.48	44.14	J	74	54	-9.86
17235	V	50.27		6.50	56.77		68.2		-11.43
	V								
			11ac	(VHT20) CH	157: 5785	ИНz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit		Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11570	(H)	41.56	1	2.42	43.98	) )	74	54	-10.02
17355	Ħ	52.41		7.03	59.44		68.2		-8.76
	Н								
11570	V	40.29		2.42	42.71	(	74	54	-11.29
17355	V	51.76		7.03	58.79		68.2		-9.41
	V								
			11ac	(VHT20) CH	165: 5825	MHz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11650	Н	41.15		2.41	43.56	/	74	54	-10.44
17475	Н	51.63		7.41	59.04		68.2		-9.16
	Н								
					•			•	
11650	V	40.85	( )	2.41	43.26	<u> </u>	74	54	-10.74
17475	V	52.52	-1/0	7.41	59.93	9)	68.2	(0-)	-8.27
	V								
			11ac	(VHT40) CH	151: 5755	MHz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak	AV (dDay)(/res)	(dBµV/m)	(dBµV/m)	(dB)
44540	11	40.45		0.47	(dBµV/m)	, , ,	7.1	F.4	44.00
11510	Н	40.15		2.47	42.62		74	54	-11.38
17265	(CH)	50.62		6.62	57.24	( )	68.2	$(G_2)$	-10.96
	Н								
11510	V	41.81		2.47	11 20	<u> </u>	74	54	-0.72
17265	V			6.62	44.28 56.87				-9.72 -11.33
	V	50.25				(	68.2		-11.33
/-	V				/				



			11ac	c(VHT40) CH	  159: 5795	MHz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor		on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11590	Н	41.45		2.40	43.85		74	54	-10.15
17385	Н	51.18		7.15	58.33		68.2		-9.87
	Н								
	(G)		(.G)		(.0			(.c)	
11590	V	40.74		2.40	43.14	J	74	54	-10.86
17385	V	52.03		7.15	59.18		68.2		-9.02
	V								
			11a	x(HE20) CH	149: 5745N	ИHz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11490	H	41.47	-140	2.48	43.95	)	74	54	-10.05
17235	H	52.63		6.50	59.13		68.2		-9.07
	Н								
								-	
11490	V	40.91		2.48	43.39	(	74	54	-10.61
17235	V	51.04		6.50	57.54		68.2		-10.66
	V								
			11a	x(HE20) CH	157: 5785N	ИHz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emission Level Pea		Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(dBµV/m)	(dBµV/m)	(dB)
11570	Н	41.54		2.42	43.96	/	74	54	-10.04
17355	Н	50.13		7.03	57.16		68.2		-11.04
	Н								
					•	•	•	•	
11570	V	42.94		2.42	45.36	<u> </u>	74	54	-8.64
17355	V	51.63	-120	7.03	58.66	9)	68.2	(0.)	-9.54
	V								
			11a:	x(HE20) CH	165: 5825N	1Hz	<u>'</u>	<u> </u>	
Frequency	Ant. Pol.	Peak reading	AV reading	Correction		n Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak	AV	(dBµV/m)	(dBµV/m)	(dB)
44050		40.00		0.44	, ,	(dBµV/m)			44.55
11650	Н	40.36		2.41	42.77		74	54	-11.23
17475	(H)	50.82	-t,G)	7.41	58.23	5)	68.2	(G-)	-9.97
	Н								
11650	V	/1 E7		2.44	42.00		74	EA I	10.00
11650 17475	V	41.57 50.66		2.41	43.98		74 69.2	54	-10.02
17475	V	50.66		7.41	58.07		68.2		-10.13
<u>-</u>	V				/		-4-		<b>—</b>



	TESTING CENTRE TECHNOLOGY Report No.: TCT250123E003								
			11a:	x(HE40) CH	151: 5755N	1Hz			
Frequency	Ant. Pol.	I reading I	AV reading	Correction Factor	Emissio	n Level	Peak limit		Margin (dB)
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)		
11510	Н	41.37		2.47	43.84	(	74	54	-10.16
17265	Н	52.04		6.62	58.66		68.2		-9.54
	Н								
11510	V	41.69	+:0	2.47	44.16	·	74	54	-9.84
17265	>	51.85	-1	6.62	58.47	) <del></del>	68.2		-9.73
	V								
			11a:	x(HE40) CH	159: 5795N	1Hz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit (dBµV/m)	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(dBµV/m)		(dB)
11590	H	40.26		2.40	42.66		74	54	-11.34
17385	H	50.78	-140	7.15	57.93	9 )	68.2	(0)	-10.27
	Н								
14500		40.00		0.40	10.75	1	I — — .	I -4 I	
11590	V	40.39		2.40	42.79		74	54	-11.21
17385	V	50.44		7.15	57.59		68.2		-10.61
	V								

#### Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/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.





# **5.9. Frequency Stability Measurement**

### 5.9.1. Test Specification

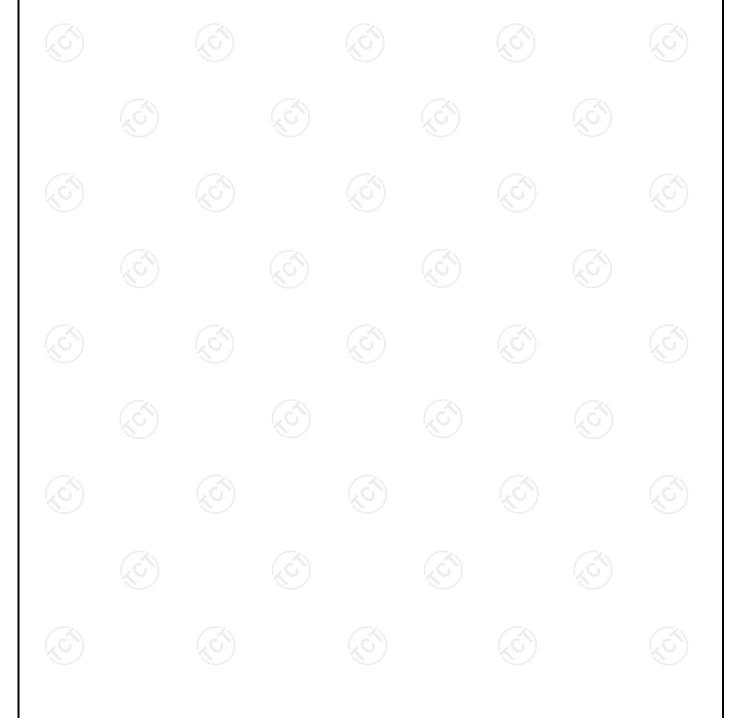
FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
ANSI C63.10:2020
The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Spectrum Analyzer EUT  AC/DC Power supply
The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. but Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (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. If 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.
PASS
Pre-scan was performed at all models(11a,11n,11ac, 11ax), the worst case (11ax) was found and test data was shown in this report.



TESTING CENTRE TECHNOLOGY Report No.: TCT250123E003

<b>F A A</b>		
597	I est	Instruments

Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
DC power supply	Kingrang	KR3005K	1	Jun. 27, 2024	Jun. 26, 2025
Programable tempratuce and humidity chamber	JQ	JQ-2000	510101234	Jun. 27, 2024	Jun. 26, 2025





120V

138V

### Test plots as follows:

25

Test mode:	802.11ax	(HE20) Frequ	iency(MHz):	5180
Temperature (°C)	Voltage(V <sub>AC</sub> )	Measurement	Delta	Result
remperature ( C)	voitage(vac)	Frequency(MHz)	Frequency(Hz)	Nesuit
45		5180	0	PASS
35		5180	0	PASS
25	120V	5180.02	20000	PASS
15	1200	5180	0	PASS
5		5180.02	20000	PASS
0		5180	0	PASS
	102V	5180	0	PASS

5180

5180

Test mode:	802.11ax(	HE20) Freque	iency(MHz): 5200	
Temperature (°C)	Voltage(V <sub>AC</sub> )	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45		5200	0	PASS
35		5200	0	PASS
25	120V	5200	0	PASS
15	1200	5200.02	20000	PASS
5		5200	0	PASS
0	(c)	5200	0	PASS
	102V	5200	0	PASS
25	120V	5200	0	PASS
	138V	5200	0	PASS

Test mode:	802.11ax(	HE20)	) Frequency(MHz):		5240		
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)				Result	
45	40	5240		40 0 0		PASS	
35		524	0	0		PASS	
25	120V	5240		0		PASS	
15	1200	5240		0		PASS	<b>X</b> \
5		524	0	0		PASS	( (
0		524	0	0		PASS	
	102V	5240	.02	20000		PASS	
25	120V	524	0	0		PASS	
	138V	524	0	0		PASS	

Report No.: TCT250123E003

PASS

PASS

0

0



Test mode:	802.11ax(	HE20)	Frequency(MHz):		5745		
Temperature (°C)	Voltage(V <sub>AC</sub> )	Measure	Measurement			Result	
Temperature ( C)	voltage(vac)	Frequency	/(MHz)	Frequency(I	Hz)	Nesuit	
45		5745.02		20000		PASS	
35		574	5	0		PASS	
25	120V	, 5745		0		PASS	
15	1200	5745		0		PASS	
5		5745.	02	20000		PASS	
0		5745.	02	20000		PASS	
	102V	574	5	0		PASS	
25	120V	5745.	02	20000		PASS	7
$(C_{\bullet})$	138V	574	5	0.0	*)	PASS	(, C

Test mode:	802.11ax(	HE20) Freque	ency(MHz):	5785
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45		5785.02	20000	PASS
35		5785.02	20000	PASS
25	120V	5785.02	20000	PASS
15	1200	5785.02	20000	PASS
5		5785.02	20000	PASS
0		5785	0	PASS
(C)	102V	5785	0	PASS
25	120V	5785	0	PASS
	138V	5785	0	PASS

Test mode:	802.11ax(	HE20) I	Freque	uency(MHz): 5825		5825			
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)						Result	
45		5825		0		PASS			
35		5825		0		PASS			
25	120V	5825.0	2	20000		PASS			
15	1200	5825.0	2	20000	)	PASS			
5		5825	5825 0			PASS			
0		5825.0	2	20000		PASS			
	102V	5825.0	2	20000		PASS			
25	120V	5825		0		PASS			
	138V	5825.0	5825.02		)	PASS			



Test mode:	802.11ax(l	HE40) Freque	ency(MHz):	5190
Temperature (°C)	Voltage(V <sub>AC</sub> )	Measurement	Delta	Result
Temperature ( C)	voitage(vac)	Frequency(MHz)	Frequency(Hz)	Nesuit
45	(,c,')	5190	0	PASS
35		5190.04	40000	PASS
25	120V	5190	0	PASS
15	1200	5190	0	PASS
5		5190	0	PASS
0		5190	0	PASS
	102V	5190	0	PASS
25	120V	5190	0	PASS
(C)	138V	5190	0.0	PASS

Test mode:	802.11ax(	HE40) F	Frequency(MHz):		5230				
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)				Delta Frequency(Hz)		Result	
45		5230		0		PASS			
35		5230		0		PASS			
25	120V	5230		0		PASS			
15	1200	5230.0	4	40000		PASS			
5		5230	5230 0			PASS			
0		5230		0		PASS			
(, (, ')	102V	5230		0		PASS			
25	120V	5230		0		PASS			
	138V	5230		0		PASS			

Test mode:	802.11ax(	HE40) Frequ	quency(MHz): 5755	
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45		5755.04	5755.04 40000	
35		5755.04	40000	PASS
25	120V	5755.04	40000	PASS
15	1200	5755	0	PASS
5		5755.04	40000	PASS
0		5755.04	40000	PASS
	102V	5755.04	40000	PASS
25	120V	5755.04	40000	PASS
	138V	5755.04	40000	PASS



ement Delta cy(MHz) Frequency(Hz)  05 0 PASS 05 0 PASS
95 0 PASS
05 0 PASS
.04 40000 PASS
.04 40000 PASS
05 0 PASS
.04 40000 PASS
05 0 PASS
95 0 PASS
95 0 PASS
). )5 )5





## **Appendix A: Test Result of Conducted Test**

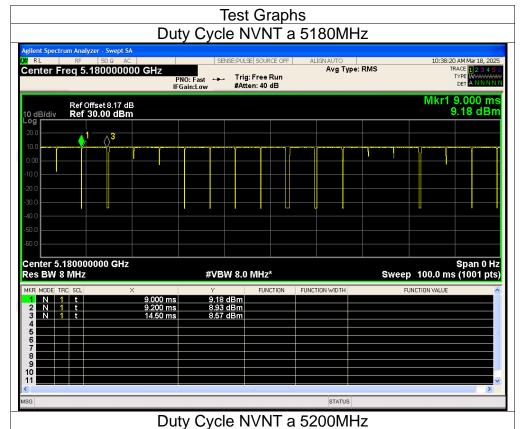
**Duty Cycle** 

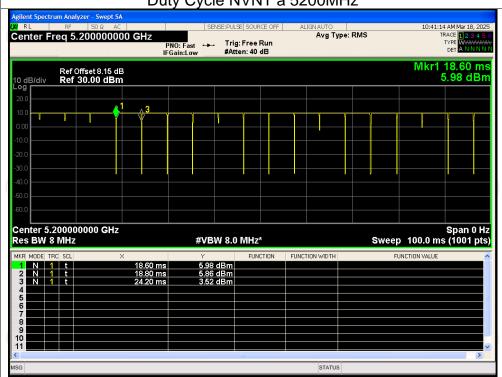
		*	Cycle	0 1 5 1
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	а	5180	97.0	0.13
NVNT	а	5200	98.7	0
NVNT	а	5240	98.3	0
NVNT	n20	5180	98.0	0
NVNT	n20	5200	98.2	0
NVNT	n20	5240	98.8	0
NVNT	n40	5190	98.0	0
NVNT	n40	5230	99.6	0
NVNT	ac20	5180	96.7	0.15
NVNT	ac20	5200	99.4	0
NVNT	ac20	5240	98.8	0
NVNT	ac40	5190	98.2	0
NVNT	ac40	5230	98.6	0
NVNT	ax20	5180	97.1	0.13
NVNT	ax20	5200	97.9	0.09
NVNT	ax20	5240	96.3	0.16
NVNT	ax40	5190	98.9	0
NVNT	ax40	5230	99.2	0
NVNT	а	5745	99.7	0
NVNT	а	5785	99.0	0
NVNT	а	5825	98.3	0
NVNT	n20	5745	97.8	0.10
NVNT	n20	5785	98.7	0
NVNT	n20	5825	98.3	0
NVNT	n40	5755	99.6	0
NVNT	n40	5795	99.1	0
NVNT	ac20	5745	98.0	0
NVNT	ac20	5785	98.2	0
NVNT	ac20	5825	97.8	0.1
NVNT	ac40	5755	99.2	0
NVNT	ac40	5795	98.5	0
NVNT	ax20	5745	97.9	0.09
NVNT	ax20	5785	97.7	0.10
NVNT	ax20	5825	97.8	0.10
NVNT	ax40	5755	99.3	0
NVNT	ax40	5795	99.4	0

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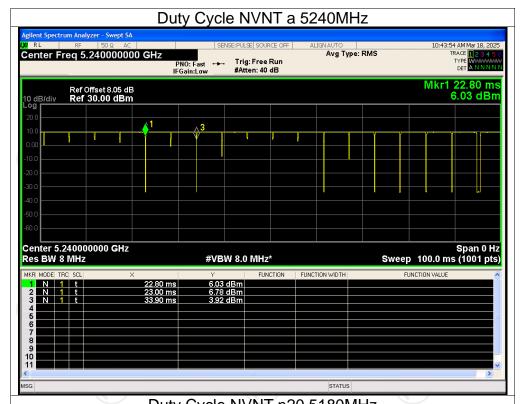
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

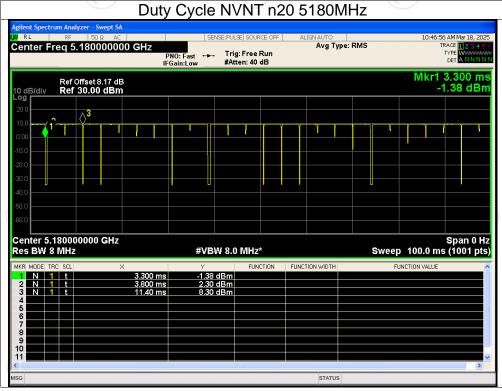




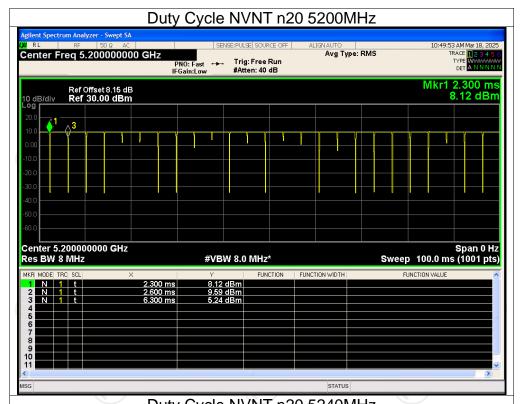


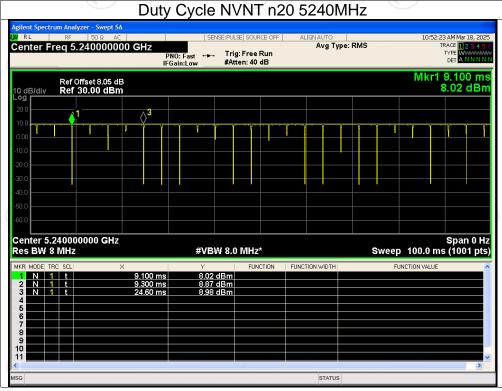




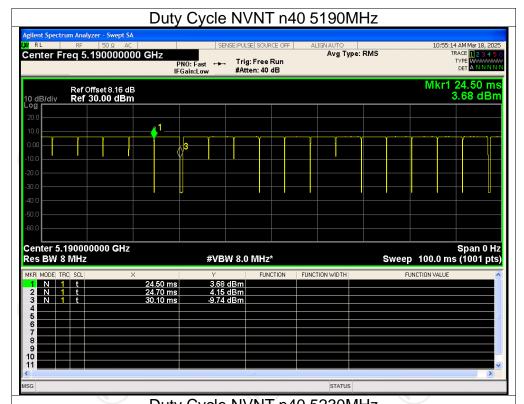


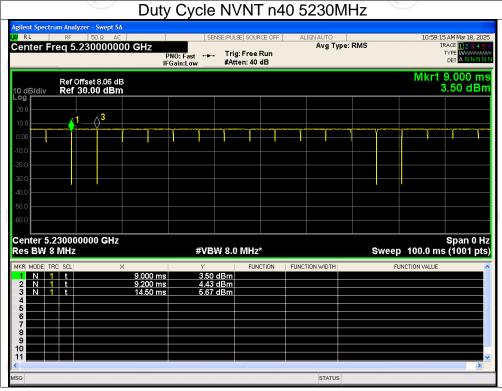




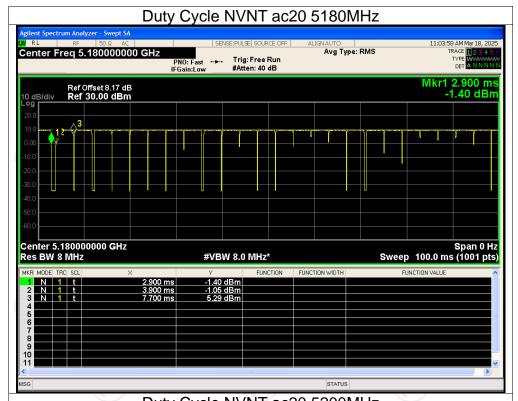


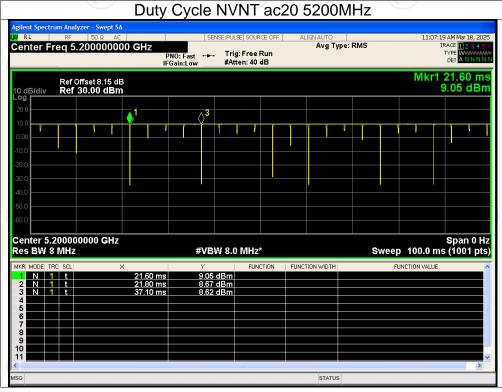




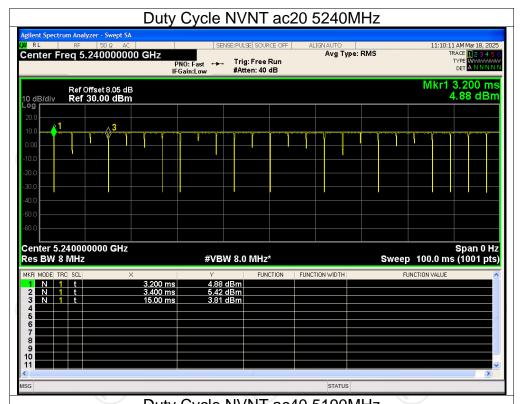


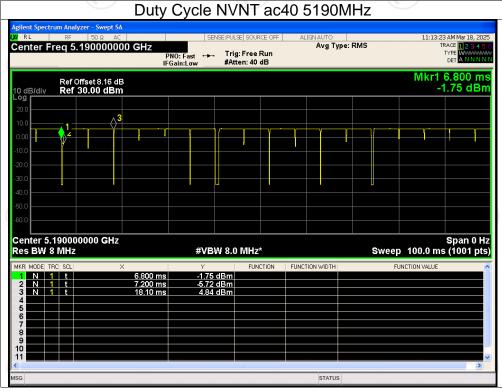




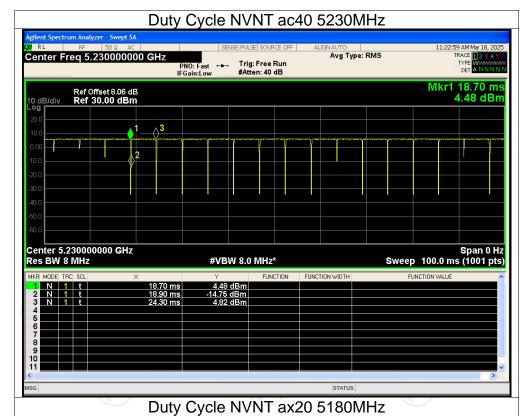


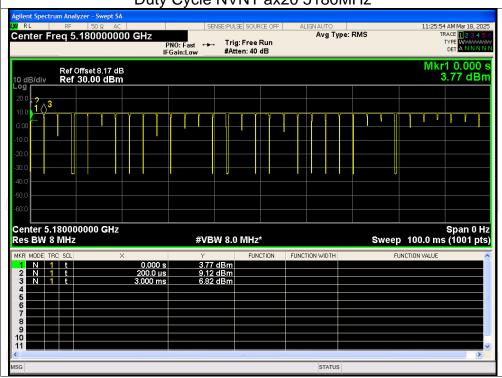




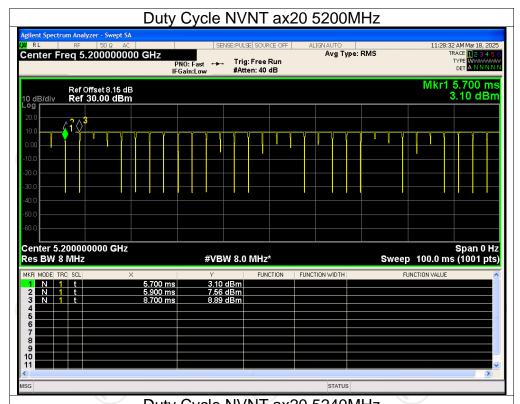


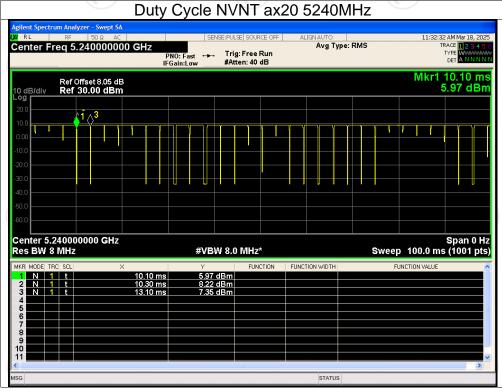




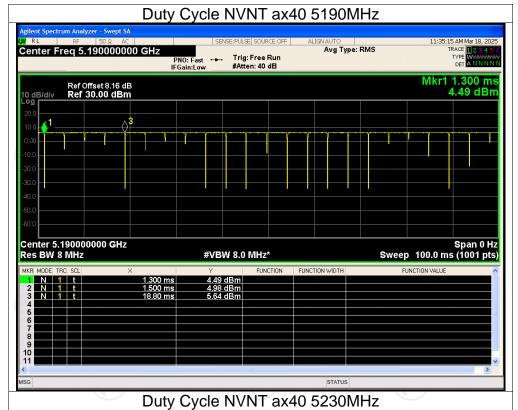


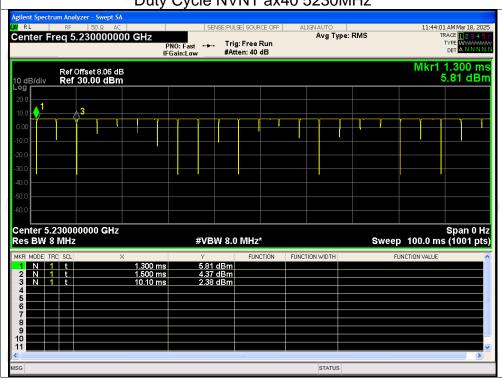




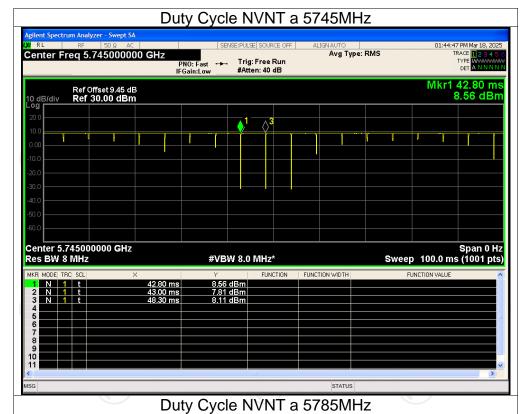


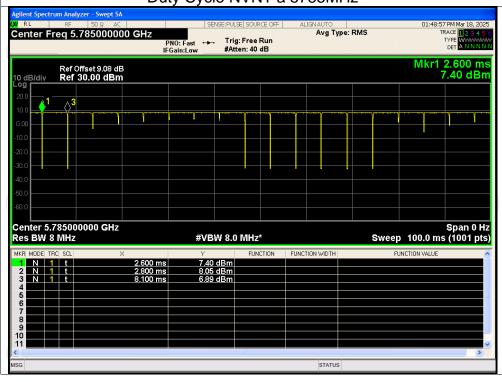




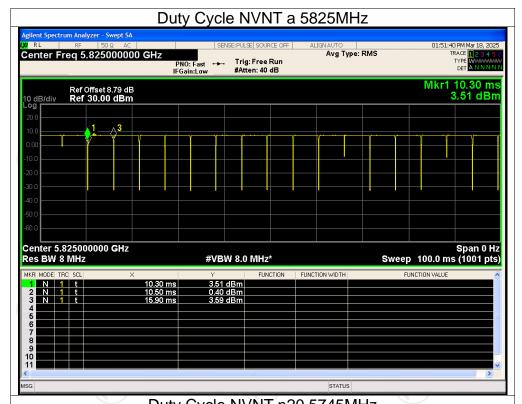


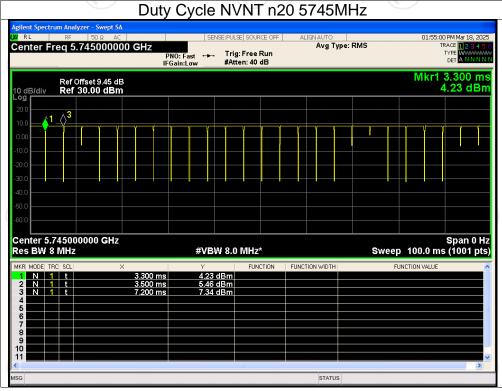




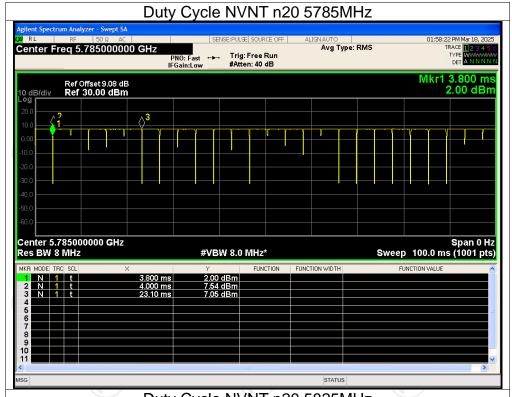


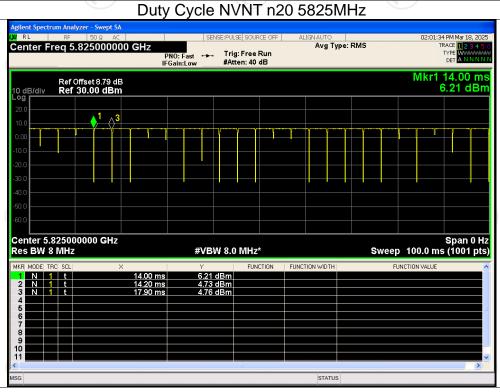




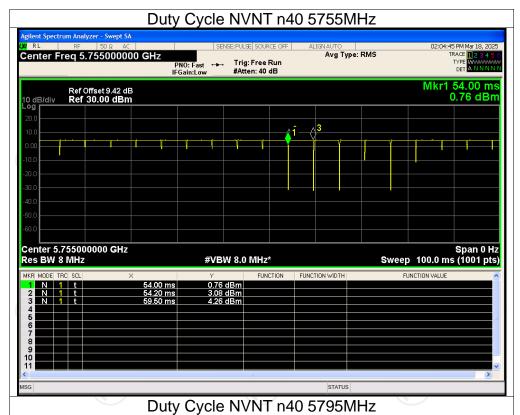


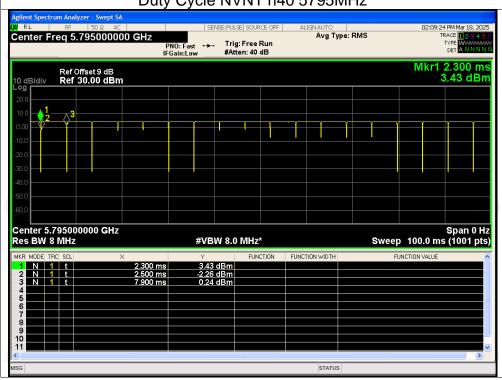




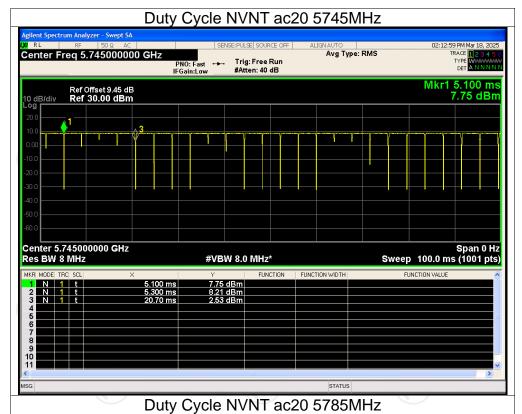


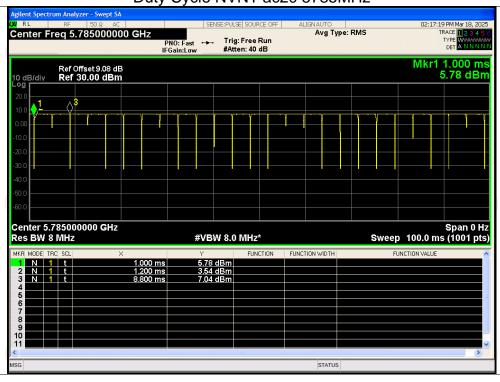




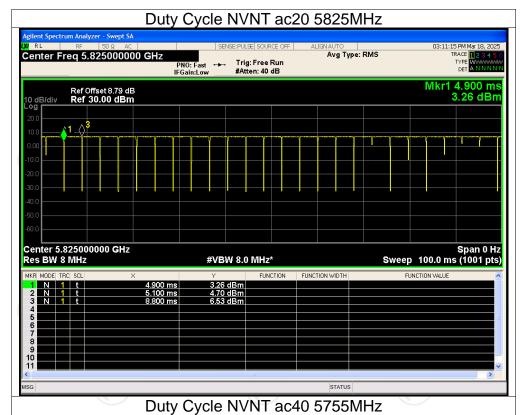


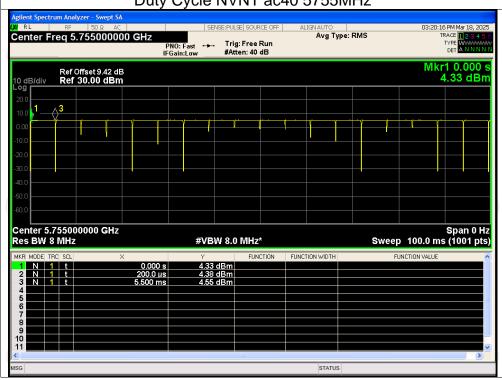




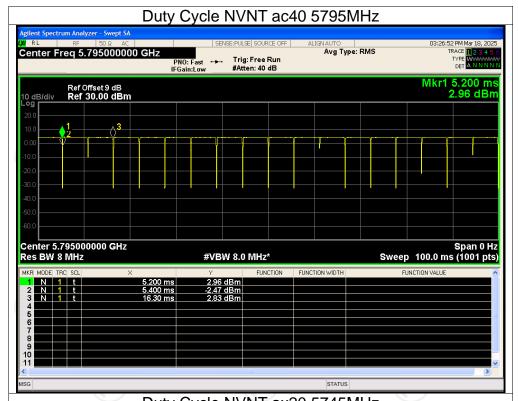


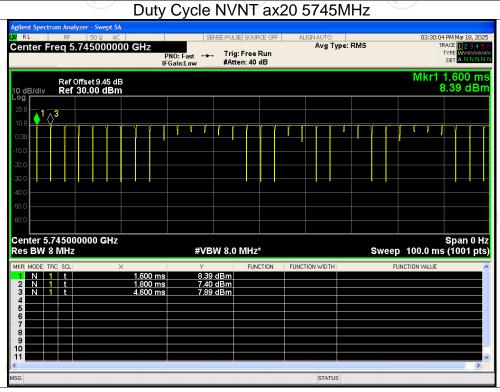




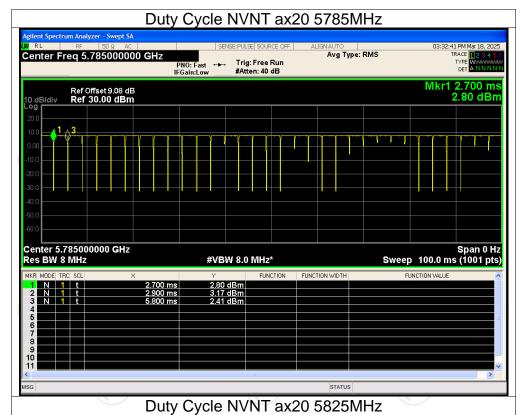


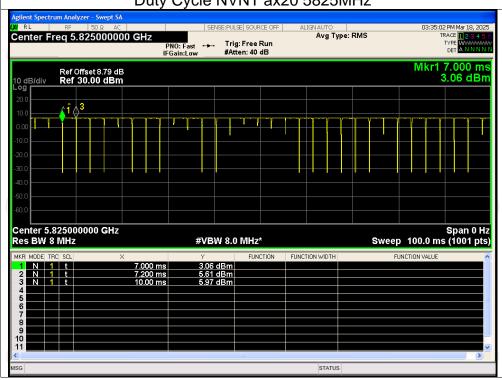




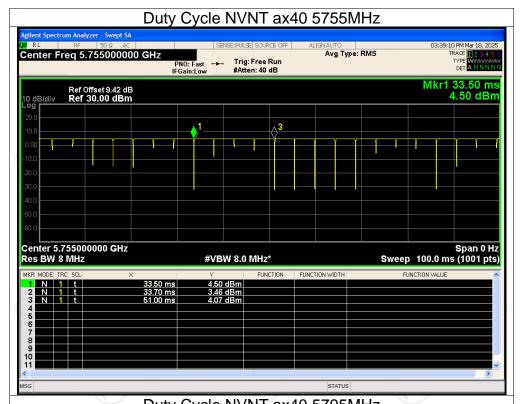


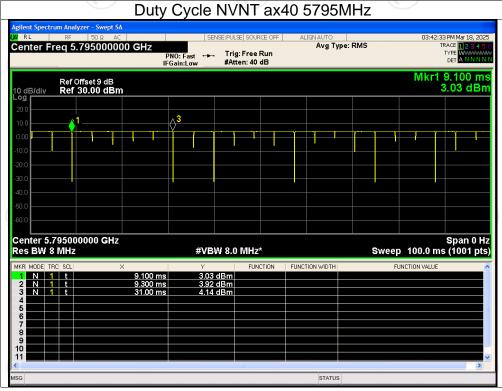














**Maximum Conducted Output Power** 

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	а	5180	12.59	0.13	12.72	24	Pass
NVNT	а	5200	12.71	0	12.71	24	Pass
NVNT	а	5240	12.26	0	12.26	24	Pass
NVNT	n20	5180	12.54	0	12.54	24	Pass
NVNT	n20	5200	12.49	0	12.49	24	Pass
NVNT	n20	5240	12.17	0	12.17	24	Pass
NVNT	n40	5190	12.47	0	12.47	24	Pass
NVNT	n40	5230	12.32	0	12.32	24	Pass
NVNT	ac20	5180	12.48	0.15	12.63	24	Pass
NVNT	ac20	5200	12.47	0	12.47	24	Pass
NVNT	ac20	5240	12.11	0	12.11	24	Pass
NVNT	ac40	5190	12.42	0	12.42	24	Pass
NVNT	ac40	5230	12.35	0	12.35	24	Pass
NVNT	ax20	5180	12.20	0.13	12.33	24	Pass
NVNT	ax20	5200	12.41	0.09	12.50	24	Pass
NVNT	ax20	5240	12.01	0.16	12.17	24	Pass
NVNT	ax40	5190	12.54	0	12.54	24	Pass
NVNT	ax40	5230	12.31	0	12.31	24	Pass
NVNT	а	5745	12.18	0	12.18	30	Pass
NVNT	а	5785	11.64	0	11.64	30	Pass
NVNT	а	5825	10.44	0	10.44	30	Pass
NVNT	n20	5745	11.79	0.10	11.89	30	Pass
NVNT	n20	5785	11.01	0	11.01	30	Pass
NVNT	n20	5825	9.92	0	9.92	30	Pass
NVNT	n40	5755	11.86	0	11.86	30	Pass
NVNT	n40	5795	11.17	0	11.17	30	Pass
NVNT	ac20	5745	12.20	0	12.20	30	Pass
NVNT	ac20	5785	10.88	0	10.88	30	Pass
NVNT	ac20	5825	10.49	0.10	10.59	30	Pass
NVNT	ac40	5755	12.20	0	12.20	30	Pass
NVNT	ac40	5795	11.21	0	11.21	30	Pass
NVNT	ax20	5745	12.41	0.09	12.50	30	Pass
NVNT	ax20	5785	11.45	0.1	11.55	30	Pass
NVNT	ax20	5825	10.42	0.1	10.52	30	Pass
NVNT	ax40	5755	11.64	0	11.64	30	Pass
NVNT	ax40	5795	11.29	0	11.29	30	Pass







