

FCC REPORT

(UNII)

Applicant: OASYS CYBERNETICS PRIVATE LIMITED

Address of Applicant: OAS TOWERS, No.3, STRINGERS STREET, VEPERY, CHENNAI, TAMILNADU, India – 600003.

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: MT02, MT02A, MT04, MT03

Trade mark: OASYS

FCC ID: 2AYKQMT02

Applicable standards: FCC CFR Title 47 Part 15 Subpart E Section 15.407

Date of sample receipt: 01 Dec., 2020

Date of Test: 01 Dec., 2020 to 26 Jan., 2021

Date of report issued: 27 Jan., 2021

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	27 Jan., 2021	Original

Tested by: Tanet Wei
Test Engineer

Date: 27 Jan., 2021

Reviewed by: Winner Zhang
Project Engineer

Date: 27 Jan., 2021

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4 Test Summary

Test Item	Section in CFR 47	Test Data	Test Result
Antenna requirement	15.203 & 15.407 (a)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Duty Cycle	ANSI C63.10-2013	Appendix A – 5G Wi-Fi	Pass
Conducted Peak Output Power	15.407 (a) (1) (iv) & (a) (2) & (a) (3)	Appendix A – 5G Wi-Fi	Pass
26dB Occupied Bandwidth	15.407 (a) (12)	Appendix A – 5G Wi-Fi	Pass
6dB Emission Bandwidth	15.407(e)	Appendix A – 5G Wi-Fi	Pass
Power Spectral Density	15.407 (a) (1) (iv) & (a) (2) & (a) (3)	Appendix A – 5G Wi-Fi	Pass
Band Edge	15.407(b)	See Section 6.6	Pass
Spurious Emission	15.407 (b) & 15.205 & 15.209	See Section 6.7	Pass
Frequency Stability	15.407(g)	See Section 6.8	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable. 3. The cable insertion loss used by “RF Output Power” and other conduction measurement items is 0.5dB (provided by the customer).			
Test Method:	ANSI C63.10-2013 KDB 789033 D02 General UNII Test Procedures New Rules v02r01		

5 General Information

5.1 Client Information

Applicant:	OASYS CYBERNETICS PRIVATE LIMITED
Address:	OAS TOWERS, No.3, STRINGERS STREET, VEPERY, CHENNAI, TAMILNADU, India – 600003.
Manufacturer/ Factory:	OASYS CYBERNETICS PRIVATE LIMITED
Address:	OAS TOWERS, No.3, STRINGERS STREET, VEPERY, CHENNAI, TAMILNADU, India – 600003.

5.2 General Description of E.U.T.

Product Name:	Tablet PC				
Model No.:	MT02, MT02A, MT04, MT03				
Operation Frequency:	Band 1: 5150MHz-5250MHz			Band 4: 5725MHz-5825MHz	
Channel numbers:	Band 1:	802.11a/802.11n20: 4	802.11n40: 2	802.11ac: 1	
	Band 4:	802.11a/802.11n20: 5	802.11n40: 2	802.11ac: 1	
Channel separation:	20MHz:	802.11a/802.11n-HT20/802.11ac-HT20			
	40MHz:	802.11n-HT40/802.11ac-HT40			
Modulation technology (IEEE 802.11a):	BPSK, QPSK, 16-QAM, 64-QAM				
Modulation technology (IEEE 802.11n):	BPSK, QPSK, 16-QAM, 64-QAM				
Modulation technology (IEEE 802.11ac):	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM				
Data speed (IEEE 802.11a):	6Mbps, 9Mbps,12Mbps,18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps				
Data speed (IEEE 802.11n20):	MCS0: 6.5Mbps, MCS1:13Mbps,MCS2:19.5Mbps, MCS3:26Mbps, MCS4:39Mbps, MCS5:52Mbps, MCS6:58.5Mbps, MCS7:65Mbps				
Data speed (IEEE 802.11n40):	MCS0:15Mbps, MCS1:30Mbps, MCS2:45Mbps, MCS3:60Mbps, MCS4:90Mbps, MCS5:120Mbps, MCS6:135Mbps, MCS7:150Mbps				
Data speed (IEEE 802.11ac):	Up to 433.3Mbps				
Antenna Type:	Internal Antenna				
Antenna gain:	1.68dBi				
Power supply:	Rechargeable Li-ion Battery DC7.4V, 2500mAh				
AC adapter:	Model: YHY-12002000 Input: AC100-220V, 50/60Hz, 1.0A Output: DC 12.0V, 2000mA				
Remark:	Model No.: MT02, MT02A, MT04, MT03 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.				
Test Sample Condition:	The test samples were provided in good working order with no visible defects.				

Operation Frequency each of channel				
Band 1				
802.11a/802.11n/ac-HT20		802.11n/ac-HT40		
Channel	Frequency	Channel	Frequency	
36	5180MHz	38	5190MHz	
40	5200MHz	46	5230MHz	
44	5220MHz			
48	5240MHz			
Band 4				
802.11a/802.11n/ac-HT20		802.11n/ac-HT40		
Channel	Frequency	Channel	Frequency	
149	5745MHz	151	5755MHz	
153	5765MHz	159	5795MHz	
157	5785MHz			
161	5805MHz			
165	5825MHz			

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:

Band 1					
802.11a/802.11n/ac-HT20		802.11n/ac-HT40			
Channel	Frequency	Channel	Frequency		
Lowest	5180MHz	Lowest	5190MHz		
Middle	5200MHz	Highest	5230MHz		
Highest	5240MHz				
Band 4					
802.11a/802.11n/ac-HT20		802.11n/ac-HT40			
Channel	Frequency	Channel	Frequency		
Lowest	5745MHz	Lowest	5755MHz		
Middle	5785MHz	Highest	5795MHz		
Highest	5825MHz				

5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Continuously transmitting mode	Keep the EUT in 100% duty cycle transmitting with modulation.
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, and found the follow list were the worst case.	
Mode	Data rate
802.11a	6 Mbps
802.11n/ac20	6.5 Mbps
802.11n/ac40	13.5 Mbps
802.11ac80	29.3 Mbps

5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
The EUT has been tested as an independent unit.				

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.
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5.8 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

5.10 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2020	07-21-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2020	06-21-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2020	06-21-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-18-2020	11-17-2021
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-05-2020	03-04-2021
Signal Generator	R&S	SMR20	1008100050	03-05-2020	03-04-2021
RF Switch Unit	MWRFTTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTTEST	MTS8200	Version: 2.0.0.0		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	09-25-2020	09-24-2021
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	11-01-2020	10-31-2021
Simulated Station	Rohde & Schwarz	CMW500	140493	07-22-2020	07-21-2021

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2020	07-20-2021
Cable	HP	10503A	N/A	03-05-2020	03-04-2021
EMI Test Software	AUDIX	E3	Version: 6.110919b		

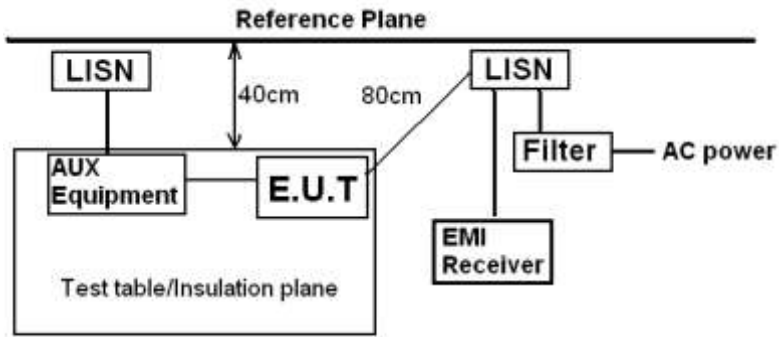
Conducted method:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021
Vector Signal Generator	Keysight	N5182B	MY59101009	11-27-2020	11-26-2021
Analog Signal Generator	Keysight	N5173B	MY59100765	11-27-2020	11-26-2021
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-27-2020	11-26-2021
Simulated Station	Rohde & Schwarz	CMW270	102335	11-27-2020	11-26-2021
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A
PDU	MWRF-test	XY-G10	N/A	N/A	N/A
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0		
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2021
Temperature Humidity Chamber	ZhongZhi	CZ-C-150D	ZH16491	09-23-2020	09-22-2021

6 Test results and Measurement Data

6.1 Antenna requirement

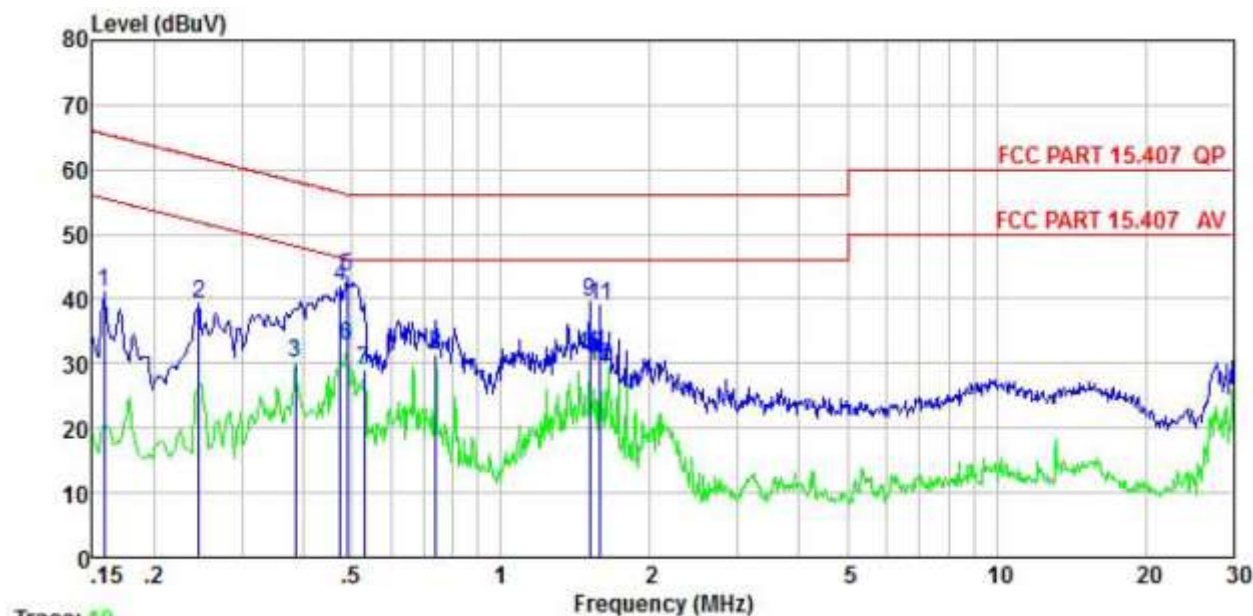
Standard requirement:	FCC Part15 E Section 15.203 /407(a)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.	
E.U.T Antenna:	
The Wi-Fi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 1.68 dBi.	

6.2 Conducted Emission

Test Requirement:	FCC Part15 C Section 15.207		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dBUV)	
		Quasi-peak	
	0.15-0.5	66 to 56*	0.15-0.5
	0.5-5	56	0.5-5
	5-30	60	5-30
* Decreases with the logarithm of the frequency.			
Test procedure	- The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). It provides a 50ohm/50uH coupling impedance for the measuring equipment. - 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). - 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(latest version) on conducted measurement.		
Test setup:	 <i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test Instruments:	Refer to section 5.10 for details		
Test mode:	Refer to section 5.3 for details.		
Test results:	Passed		

Measurement Data:

Product name:	Tablet PC	Product model:	MT02
Test by:	Janet	Test mode:	5G Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Humi: 55%

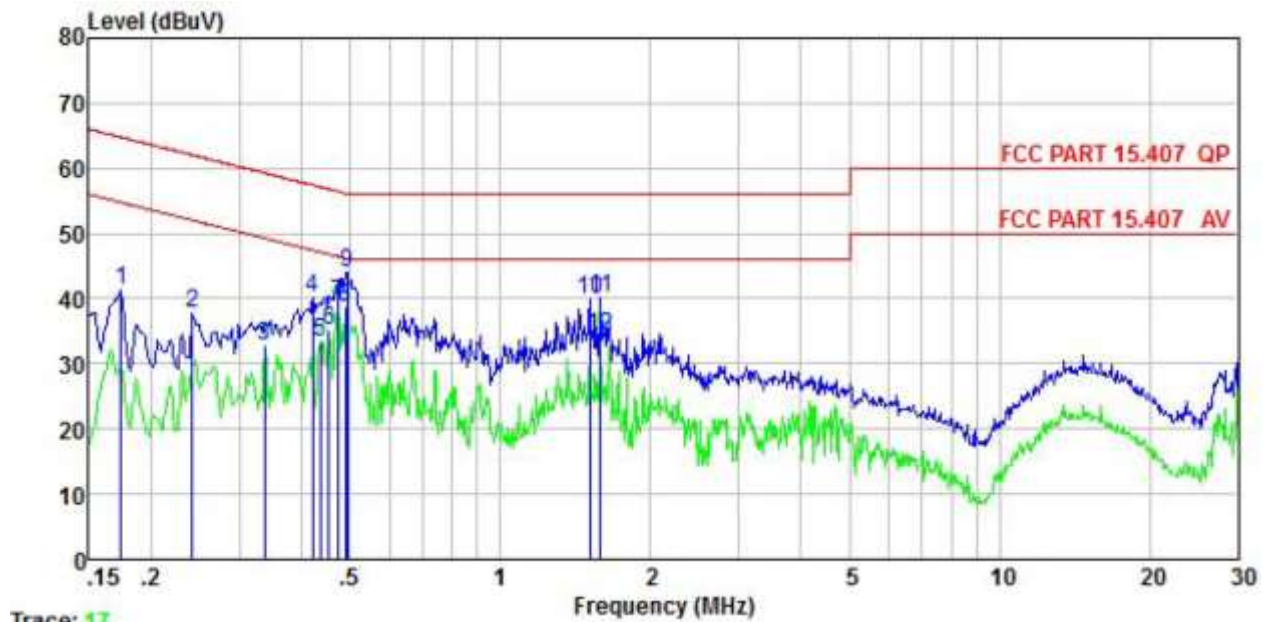


	Read Freq MHz	Level dBuV	LISN Factor dB	Aux Factor dB	Cable Loss dB	Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.158	30.94	-0.57	-0.07	10.77	41.07	65.56	-24.49	QP
2	0.246	29.35	-0.57	-0.21	10.75	39.32	61.91	-22.59	QP
3	0.385	19.47	-0.49	0.33	10.72	30.03	48.17	-18.14	Average
4	0.474	31.90	-0.44	-0.18	10.75	42.03	56.45	-14.42	QP
5	0.489	33.24	-0.44	-0.26	10.76	43.30	56.19	-12.89	QP
6	0.489	22.58	-0.44	-0.26	10.76	32.64	46.19	-13.55	Average
7	0.529	18.97	-0.45	-0.36	10.76	28.92	46.00	-17.08	Average
8	0.739	21.45	-0.54	-0.28	10.79	31.42	46.00	-14.58	Average
9	1.511	29.06	-0.55	-0.01	10.92	39.42	56.00	-16.58	QP
10	1.511	20.86	-0.55	-0.01	10.92	31.22	46.00	-14.78	Average
11	1.585	28.74	-0.55	-0.05	10.93	39.07	56.00	-16.93	QP
12	1.585	19.33	-0.55	-0.05	10.93	29.66	46.00	-16.34	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

Product name:	Tablet PC	Product model:	MT02
Test by:	Janet	Test mode:	5G Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%

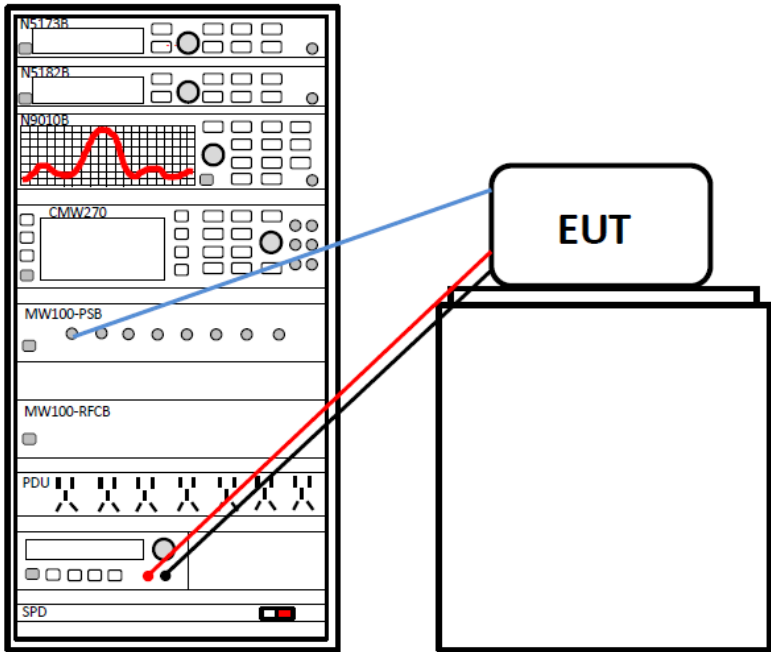


	Freq	Read	LISN	Aux	Cable	Level	Limit	Over	
	MHz	Level	Factor	Factor	Loss	Level	Line	Limit	Remark
		dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.174	31.30	-0.68	0.00	10.77	41.39	64.77	-23.38	QP
2	0.242	27.59	-0.67	0.00	10.75	37.67	62.04	-24.37	QP
3	0.337	22.77	-0.65	-0.02	10.73	32.83	49.27	-16.44	Average
4	0.421	30.18	-0.63	-0.04	10.73	40.24	57.42	-17.18	QP
5	0.435	23.32	-0.64	-0.03	10.73	33.38	47.15	-13.77	Average
6	0.454	24.89	-0.64	-0.01	10.74	34.98	46.80	-11.82	Average
7	0.471	29.09	-0.64	0.01	10.75	39.21	46.49	-7.28	Average
8	0.489	28.66	-0.65	0.02	10.76	38.79	46.19	-7.40	Average
9	0.494	33.99	-0.65	0.03	10.76	44.13	56.10	-11.97	QP
10	1.511	29.40	-0.70	0.13	10.92	39.75	56.00	-16.25	QP
11	1.585	29.66	-0.70	0.14	10.93	40.03	56.00	-15.97	QP
12	1.585	23.92	-0.70	0.14	10.93	34.29	46.00	-11.71	Average

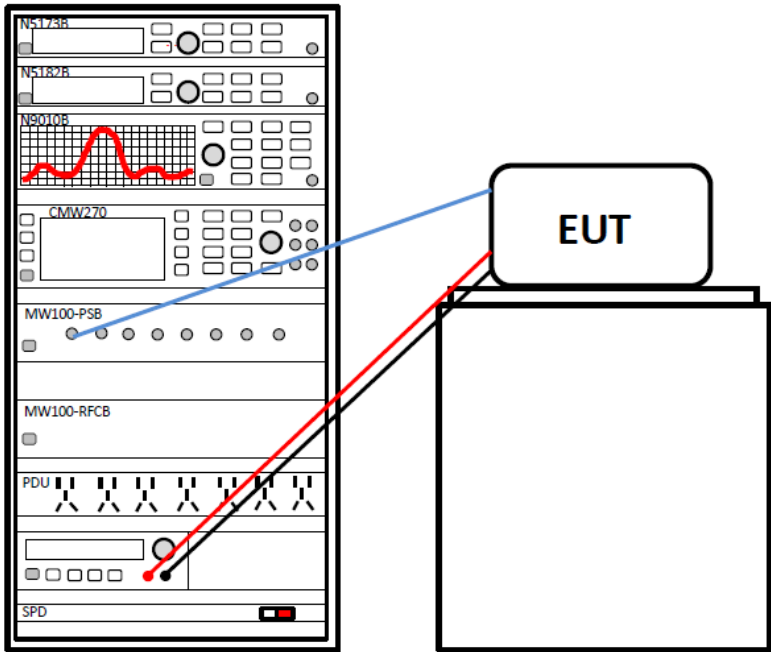
Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

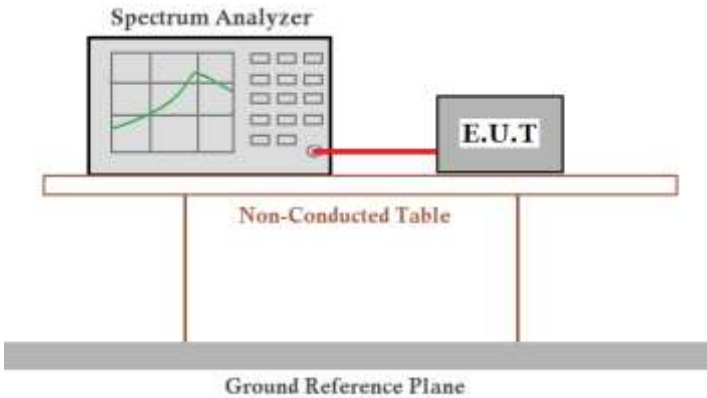
6.3 Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (iv) & (a)(2) & (a) (3)
Limit:	Band 1: 24dBm Band 2: 24dBm or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. Band 3: 24dBm or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. Band 4: 30dBm
Test setup:	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 5G WIFI

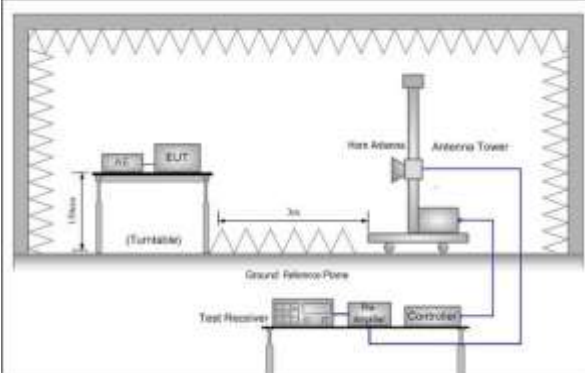
6.4 Occupy Bandwidth

Test Requirement:	FCC Part15 E Section 15.407 (a) (12) and Section 15.407 (e)
Limit:	Band 1/2/3/4: N/A (26dB Emission Bandwidth and 99% Occupy Bandwidth) Band 4: >500kHz (6dB Bandwidth)
Test setup:	 The diagram illustrates the test setup for measuring occupy bandwidth. A rack of test equipment is shown on the left, including a spectrum analyzer (N5173B), a signal generator (N5182B), a spectrum analyzer (N9010B), a channel emulator (CMW270), a power supply (MW100-PSB), a radio frequency comb (MW100-RFCB), a power distribution unit (PDU), and a signal processor (SPD). A red line connects the output of the CMW270 to the EUT (Equipment Under Test) on the right. A blue line connects the output of the N9010B to the EUT. The EUT is represented by a box labeled 'EUT' with a smaller box on top.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 5G WIFI

6.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (iv) & (a) (2) & (a)(3)
Limit:	Band 1: 11 dBm/MHz Band 2: 11 dBm/MHz Band 3: 11 dBm/MHz Band 4: 30 dBm/500kHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by two vertical legs. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 5G WIFI

6.6 Band Edge

Test Requirement:	FCC Part 15 E Section 15.407 (b)			
Receiver setup:	Detector	RBW	VBW	Remark
	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	RMS	1MHz	3MHz	Average Value
Limit:	Band	Limit (dBuV/m @3m)		Remark
	Band 1/2/3	68.20		Peak Value
		54.00		Average Value
		Band 4 limit: For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. Remark: 1. Band 1/2/3 limit: $E[dB\mu V/m] = EIRP[dBm] + 95.2 = 68.2 \text{ dBuV/m}$, for $EIPR[dBm] = -27 \text{ dBm}$. 2. Band 4 limit: $E[dB\mu V/m] = EIRP[dBm] + 95.2 = 68.2 \text{ dBuV/m}$, for $EIPR[dBm] = -27 \text{ dBm}$. $E[dB\mu V/m] = EIRP[dBm] + 95.2 = 105.2 \text{ dBuV/m}$, for $EIPR[dBm] = 10 \text{ dBm}$. $E[dB\mu V/m] = EIRP[dBm] + 95.2 = 110.8 \text{ dBuV/m}$, for $EIPR[dBm] = 15.6 \text{ dBm}$. $E[dB\mu V/m] = EIRP[dBm] + 95.2 = 122.2 \text{ dBuV/m}$, for $EIPR[dBm] = 27 \text{ dBm}$.		
	Test Procedure:	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 rotatable 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 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.		
Test setup:				
Test Instruments:	Refer to section 5.10 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			

Measurement Data (worst case):
Band 1:

Band 1 – 802.11a									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	51.42	31.77	7.05	2.54	41.93	50.85	68.20	-17.35	Horizontal
5150.00	51.06	31.77	7.05	2.54	41.93	50.49	68.20	-17.71	Vertical
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	41.32	31.77	7.05	2.54	41.93	40.75	54.00	-13.25	Horizontal
5150.00	41.13	31.77	7.05	2.54	41.93	40.56	54.00	-13.44	Vertical
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	47.06	32.24	7.11	2.61	41.89	47.13	68.20	-21.07	Horizontal
5350.00	48.37	32.24	7.11	2.61	41.89	48.44	68.20	-19.76	Vertical
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	37.15	32.24	7.11	2.61	41.89	37.22	54.00	-16.78	Horizontal
5350.00	38.41	32.24	7.11	2.61	41.89	38.48	54.00	-15.52	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 1 – 802.11n(HT20)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	51.43	31.77	7.05	2.54	41.93	50.86	68.20	-17.34	Horizontal
5150.00	51.14	31.77	7.05	2.54	41.93	50.57	68.20	-17.63	Vertical
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	41.91	31.77	7.05	2.54	41.93	41.34	54.00	-12.66	Horizontal
5150.00	41.26	31.77	7.05	2.54	41.93	40.69	54.00	-13.31	Vertical
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	47.16	32.24	7.11	2.61	41.89	47.23	68.20	-20.97	Horizontal
5350.00	48.25	32.24	7.11	2.61	41.89	48.32	68.20	-19.88	Vertical
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	37.33	32.24	7.11	2.61	41.89	37.40	54.00	-16.60	Horizontal
5350.00	38.52	32.24	7.11	2.61	41.89	38.59	54.00	-15.41	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 1 – 802.11n(HT40)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	48.26	31.77	7.05	2.54	41.93	47.69	68.20	-20.51	Horizontal
5150.00	47.16	31.77	7.05	2.54	41.93	46.59	68.20	-21.61	Vertical
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	38.26	31.77	7.05	2.54	41.93	37.69	54.00	-16.31	Horizontal
5150.00	37.46	31.77	7.05	2.54	41.93	36.89	54.00	-17.11	Vertical
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	46.25	32.02	7.09	2.54	41.93	45.97	68.20	-22.23	Horizontal
5350.00	46.17	32.02	7.09	2.54	41.93	45.89	68.20	-22.31	Vertical
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	36.26	32.02	7.09	2.54	41.93	35.98	54.00	-18.02	Horizontal
5350.00	36.19	32.02	7.09	2.54	41.93	35.91	54.00	-18.09	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 1 – 802.11ac(HT20)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	51.26	31.77	7.05	2.54	41.93	50.69	68.20	-17.51	Horizontal
5150.00	51.33	31.77	7.05	2.54	41.93	50.76	68.20	-17.44	Vertical
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	41.84	31.77	7.05	2.54	41.93	41.27	54.00	-12.73	Horizontal
5150.00	41.25	31.77	7.05	2.54	41.93	40.68	54.00	-13.32	Vertical
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	47.85	32.24	7.11	2.61	41.89	47.92	68.20	-20.28	Horizontal
5350.00	48.19	32.24	7.11	2.61	41.89	48.26	68.20	-19.94	Vertical
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	37.53	32.24	7.11	2.61	41.89	37.60	54.00	-16.40	Horizontal
5350.00	38.26	32.24	7.11	2.61	41.89	38.33	54.00	-15.67	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 1 – 802.11ac(HT40)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	48.73	31.77	7.05	2.54	41.93	48.16	68.20	-20.04	Horizontal
5150.00	47.82	31.77	7.05	2.54	41.93	47.25	68.20	-20.95	Vertical
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	38.84	31.77	7.05	2.54	41.93	38.27	54.00	-15.73	Horizontal
5150.00	37.97	31.77	7.05	2.54	41.93	37.40	54.00	-16.60	Vertical
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	46.74	32.24	7.11	2.61	41.89	46.81	68.20	-21.39	Horizontal
5350.00	46.89	32.24	7.11	2.61	41.89	46.96	68.20	-21.24	Vertical
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	36.67	32.24	7.11	2.61	41.89	36.74	54.00	-17.26	Horizontal
5350.00	36.86	32.24	7.11	2.61	41.89	36.93	54.00	-17.07	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 4:

Band 4 – 802.11a									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	47.68	32.63	7.45	2.69	41.85	48.60	68.20	-19.60	Horizontal
5700.00	47.57	32.64	7.60	2.72	41.90	48.63	105.20	-56.57	Horizontal
5720.00	47.68	32.65	7.64	2.72	41.92	48.77	110.80	-62.03	Horizontal
5725.00	46.82	32.65	7.69	2.72	41.94	47.94	122.20	-74.26	Horizontal
5650.00	47.75	32.63	7.45	2.69	41.85	48.67	68.20	-19.53	Vertical
5700.00	47.17	32.64	7.60	2.72	41.90	48.23	105.20	-56.97	Vertical
5720.00	47.33	32.65	7.64	2.72	41.92	48.42	110.80	-62.38	Vertical
5725.00	48.38	32.65	7.69	2.72	41.94	49.50	122.20	-72.70	Vertical
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	53.70	32.67	7.90	2.69	42.03	54.93	122.20	-67.27	Horizontal
5855.00	71.71	32.67	7.90	2.72	42.03	72.97	110.80	-37.83	Horizontal
5875.00	49.12	32.68	7.91	2.72	42.03	50.40	105.20	-54.80	Horizontal
5925.00	49.15	32.69	7.92	2.72	42.04	50.44	68.20	-17.76	Horizontal
5850.00	49.66	32.67	7.90	2.69	42.03	50.89	122.20	-71.31	Vertical
5855.00	49.28	32.67	7.90	2.72	42.03	50.54	110.80	-60.26	Vertical
5875.00	49.10	32.68	7.91	2.72	42.03	50.38	105.20	-54.82	Vertical
5925.00	49.36	32.69	7.92	2.72	42.04	50.65	68.20	-17.55	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 4 – 802.11n(HT20)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	47.26	32.63	7.45	2.69	41.85	48.18	68.20	-20.02	Horizontal
5700.00	47.17	32.64	7.60	2.72	41.90	48.23	105.20	-56.97	Horizontal
5720.00	48.12	32.65	7.64	2.72	41.92	49.21	110.80	-61.59	Horizontal
5725.00	46.46	32.65	7.69	2.72	41.94	47.58	122.20	-74.62	Horizontal
5650.00	48.03	32.63	7.45	2.69	41.85	48.95	68.20	-19.25	Vertical
5700.00	47.35	32.64	7.60	2.72	41.90	48.41	105.20	-56.79	Vertical
5720.00	47.17	32.65	7.64	2.72	41.92	48.26	110.80	-62.54	Vertical
5725.00	47.97	32.65	7.69	2.72	41.94	49.09	122.20	-73.11	Vertical
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	53.91	32.67	7.90	2.69	42.03	55.14	122.20	-67.06	Horizontal
5855.00	71.97	32.67	7.90	2.72	42.03	73.23	110.80	-37.57	Horizontal
5875.00	48.94	32.68	7.91	2.72	42.03	50.22	105.20	-54.98	Horizontal
5925.00	48.66	32.69	7.92	2.72	42.04	49.95	68.20	-18.25	Horizontal
5850.00	49.28	32.67	7.90	2.69	42.03	50.51	122.20	-71.69	Vertical
5855.00	49.40	32.67	7.90	2.72	42.03	50.66	110.80	-60.14	Vertical
5875.00	49.53	32.68	7.91	2.72	42.03	50.81	105.20	-54.39	Vertical
5925.00	48.87	32.69	7.92	2.72	42.04	50.16	68.20	-18.04	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

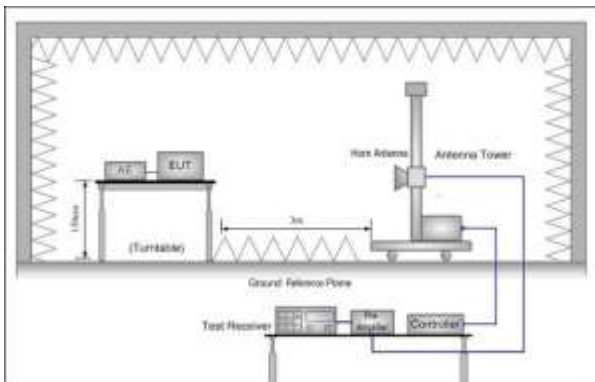
Band 4 – 802.11n(HT40)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	47.39	32.63	7.45	2.69	41.85	48.31	68.20	-19.89	Horizontal
5700.00	46.75	32.64	7.60	2.72	41.90	47.81	105.20	-57.39	Horizontal
5720.00	52.42	32.65	7.64	2.72	41.92	53.51	110.80	-57.29	Horizontal
5725.00	51.40	32.65	7.69	2.72	41.94	52.52	122.20	-69.68	Horizontal
5650.00	47.66	32.63	7.45	2.69	41.85	48.58	68.20	-19.62	Vertical
5700.00	46.97	32.64	7.60	2.72	41.90	48.03	105.20	-57.17	Vertical
5720.00	47.78	32.65	7.64	2.72	41.92	48.87	110.80	-61.93	Vertical
5725.00	48.48	32.65	7.69	2.72	41.94	49.60	122.20	-72.60	Vertical
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	46.23	32.67	7.90	2.69	42.03	47.46	122.20	-74.74	Horizontal
5855.00	46.84	32.67	7.90	2.72	42.03	48.10	110.80	-62.70	Horizontal
5875.00	46.44	32.68	7.91	2.72	42.03	47.72	105.20	-57.48	Horizontal
5925.00	47.74	32.69	7.92	2.72	42.04	49.03	68.20	-19.17	Horizontal
5850.00	47.37	32.67	7.90	2.69	42.03	48.60	122.20	-73.60	Vertical
5855.00	47.75	32.67	7.90	2.72	42.03	49.01	110.80	-61.79	Vertical
5875.00	48.19	32.68	7.91	2.72	42.03	49.47	105.20	-55.73	Vertical
5925.00	48.74	32.69	7.92	2.72	42.04	50.03	68.20	-18.17	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 4 – 802.11ac(HT20)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	47.61	32.63	7.45	2.69	41.85	48.53	68.20	-19.67	Horizontal
5700.00	47.18	32.64	7.60	2.72	41.90	48.24	105.20	-56.96	Horizontal
5720.00	47.83	32.65	7.64	2.72	41.92	48.92	110.80	-61.88	Horizontal
5725.00	46.61	32.65	7.69	2.72	41.94	47.73	122.20	-74.47	Horizontal
5650.00	47.85	32.63	7.45	2.69	41.85	48.77	68.20	-19.43	Vertical
5700.00	46.99	32.64	7.60	2.72	41.90	48.05	105.20	-57.15	Vertical
5720.00	47.18	32.65	7.64	2.72	41.92	48.27	110.80	-62.53	Vertical
5725.00	47.93	32.65	7.69	2.72	41.94	49.05	122.20	-73.15	Vertical
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	53.22	32.67	7.90	2.69	42.03	54.45	122.20	-67.75	Horizontal
5855.00	72.00	32.67	7.90	2.72	42.03	73.26	110.80	-37.54	Horizontal
5875.00	48.66	32.68	7.91	2.72	42.03	49.94	105.20	-55.26	Horizontal
5925.00	49.46	32.69	7.92	2.72	42.04	50.75	68.20	-17.45	Horizontal
5850.00	49.25	32.67	7.90	2.69	42.03	50.48	122.20	-71.72	Vertical
5855.00	49.54	32.67	7.90	2.72	42.03	50.80	110.80	-60.00	Vertical
5875.00	49.10	32.68	7.91	2.72	42.03	50.38	105.20	-54.82	Vertical
5925.00	49.53	32.69	7.92	2.72	42.04	50.82	68.20	-17.38	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

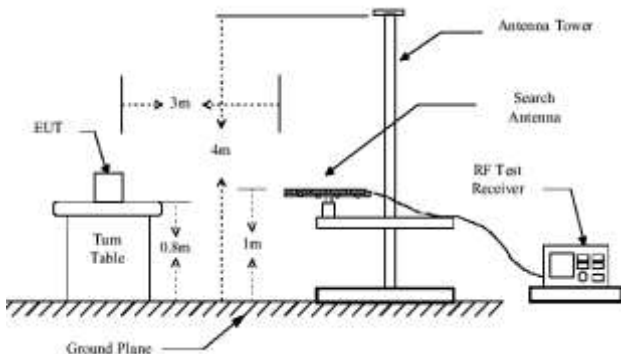
Band 4 – 802.11ac(HT40)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	47.09	32.63	7.45	2.69	41.85	48.01	68.20	-20.19	Horizontal
5700.00	47.20	32.64	7.60	2.72	41.90	48.26	105.20	-56.94	Horizontal
5720.00	52.21	32.65	7.64	2.72	41.92	53.30	110.80	-57.50	Horizontal
5725.00	51.66	32.65	7.69	2.72	41.94	52.78	122.20	-69.42	Horizontal
5650.00	47.79	32.63	7.45	2.69	41.85	48.71	68.20	-19.49	Vertical
5700.00	46.88	32.64	7.60	2.72	41.90	47.94	105.20	-57.26	Vertical
5720.00	47.79	32.65	7.64	2.72	41.92	48.88	110.80	-61.92	Vertical
5725.00	48.51	32.65	7.69	2.72	41.94	49.63	122.20	-72.57	Vertical
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	46.57	32.67	7.90	2.69	42.03	47.80	122.20	-74.40	Horizontal
5855.00	46.98	32.67	7.90	2.72	42.03	48.24	110.80	-62.56	Horizontal
5875.00	46.39	32.68	7.91	2.72	42.03	47.67	105.20	-57.53	Horizontal
5925.00	47.24	32.69	7.92	2.72	42.04	48.53	68.20	-19.67	Horizontal
5850.00	46.96	32.67	7.90	2.69	42.03	48.19	122.20	-74.01	Vertical
5855.00	47.60	32.67	7.90	2.72	42.03	48.86	110.80	-61.94	Vertical
5875.00	48.61	32.68	7.91	2.72	42.03	49.89	105.20	-55.31	Vertical
5925.00	48.51	32.69	7.92	2.72	42.04	49.80	68.20	-18.40	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

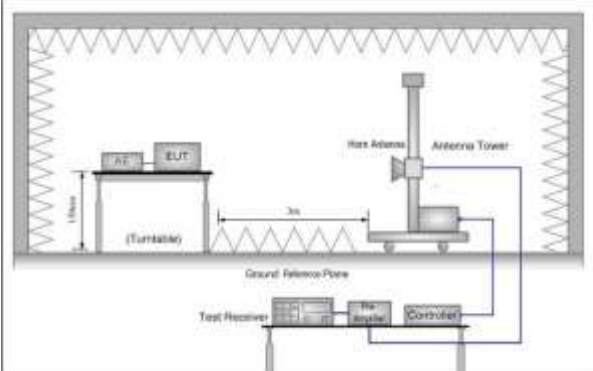
6.7 Spurious Emission

6.7.1 Restricted Band

Test Requirement:	FCC Part15 E Section 15.407(b)				
Test Frequency Range:	4.5 GHz to 5.15 GHz and 5.35GHz to 5.46GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	Above 1GHz	74.00		Peak Value	
		54.00		Average Value	
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 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 Function and Specified Bandwidth with Maximum Hold 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.				
Test setup:					
Test Instruments:	Refer to section 5.10 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed(Refer to section 6.6)				

6.7.2 Unwanted Emissions out of the Restricted Bands

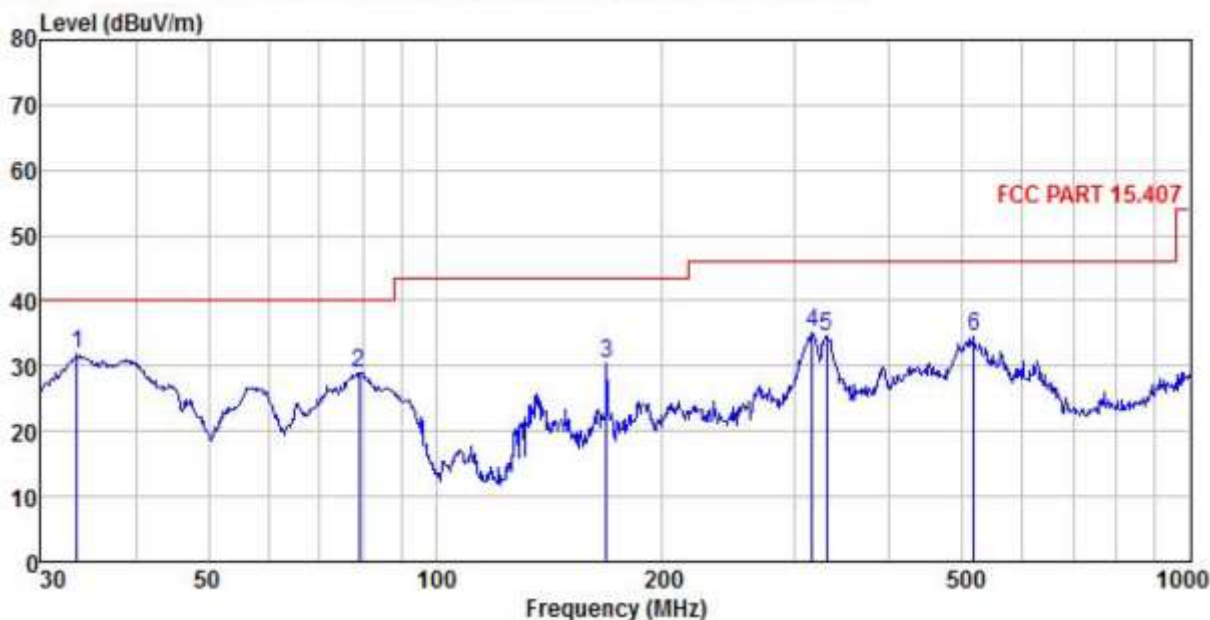
Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Frequency Range:	30MHz to 40GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		68.20		Peak Value
			54.00		Average Value
	Remark:				
	Above 1GHz limit:				
	$E[dB\mu V/m] = EIRP[dBm] + 95.2 = 68.2 \text{ dBuV/m}$, for $EIPR[dBm] = -27dBm$.				
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) 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 Function and Specified Bandwidth with Maximum Hold 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.				
Test setup:	Below 1GHz				
					
	Above 1GHz				

	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (worst case):

Below 1GHz

Product Name:	Tablet PC	Product Model:	MT02
Test By:	Janet	Test mode:	5G Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

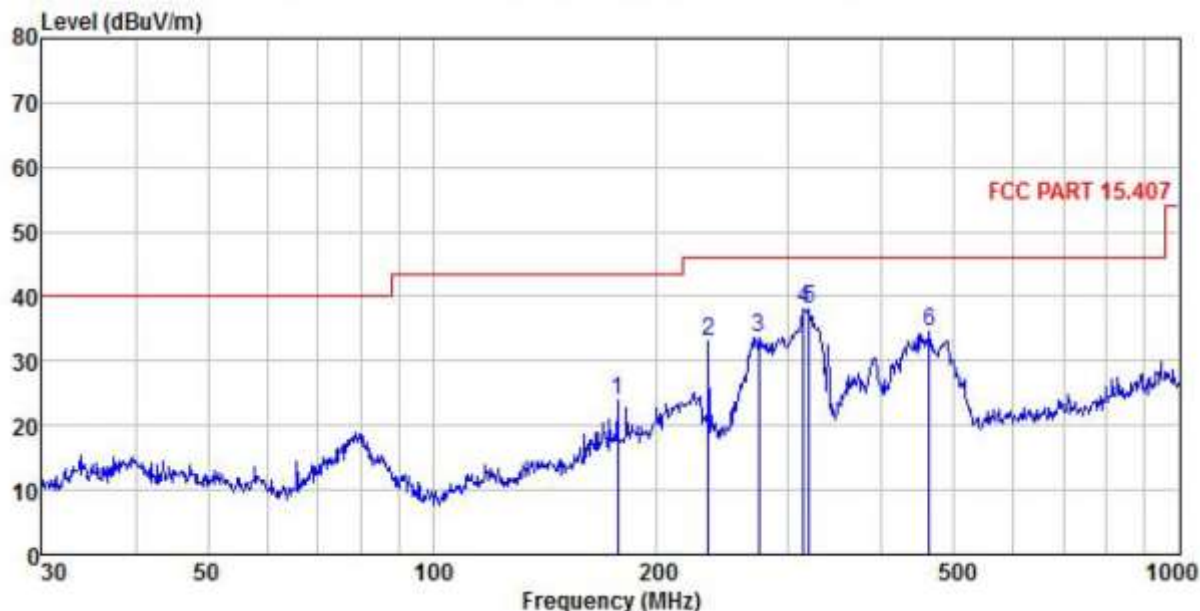


	Freq	ReadAntenna	Cable	Aux	Preamp	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss	Factor	Factor	Line	Limit	
		dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB
1	33.445	49.08	12.36	0.36	0.00	29.96	31.84	40.00	-8.16 QP
2	79.243	45.63	12.59	0.47	0.00	29.65	29.04	40.00	-10.96 QP
3	168.414	42.53	16.20	0.65	0.00	29.06	30.32	43.50	-13.18 QP
4	315.481	44.15	18.73	0.88	0.00	28.49	35.27	46.00	-10.73 QP
5	330.195	43.32	18.76	0.90	0.00	28.52	34.46	46.00	-11.54 QP
6	517.248	42.82	19.47	1.12	0.00	29.00	34.41	46.00	-11.59 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

Product Name:	Tablet PC	Product Model:	MT02
Test By:	Janet	Test mode:	5G Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%



	Freq	ReadAntenna	Cable	Aux	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
		dBuV	dB/m	dB		dB	dBuV/m	dBuV/m	dB
1	176.888	35.49	16.84	0.67	0.00	29.00	24.00	43.50	-19.50 QP
2	234.168	42.59	18.44	0.75	0.00	28.63	33.15	46.00	-12.85 QP
3	273.234	42.84	18.60	0.83	0.00	28.50	33.77	46.00	-12.23 QP
4	314.377	46.84	18.73	0.88	0.00	28.48	37.97	46.00	-8.03 QP
5	319.937	46.88	18.74	0.89	0.00	28.50	38.01	46.00	-7.99 QP
6	462.346	43.01	19.25	1.06	0.00	28.89	34.43	46.00	-11.57 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

Above 1GHz:

Band 1:

Band 1 – 802.11a									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	38.11	38.83	9.82	3.95	41.97	48.74	68.20	-19.46	Vertical
10360.00	37.88	38.83	9.82	3.95	41.97	48.51	68.20	-19.69	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	35.27	38.83	9.82	3.95	41.97	45.90	54.00	-8.10	Vertical
10360.00	34.64	38.83	9.82	3.95	41.97	45.27	54.00	-8.73	Horizontal
Test channel: Middle channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	38.64	38.87	9.85	3.98	41.95	49.39	68.20	-18.81	Vertical
10400.00	37.16	38.87	9.85	3.98	41.95	47.91	68.20	-20.29	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	35.85	38.87	9.85	3.98	41.95	46.60	54.00	-7.40	Vertical
10400.00	34.16	38.87	9.85	3.98	41.95	44.91	54.00	-9.09	Horizontal
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	38.95	38.94	9.96	4.02	41.88	49.99	68.20	-18.21	Vertical
10480.00	37.95	38.94	9.96	4.02	41.88	48.99	68.20	-19.21	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	35.46	38.94	9.96	4.02	41.88	46.50	54.00	-7.50	Vertical
10480.00	34.25	38.94	9.96	4.02	41.88	45.29	54.00	-8.71	Horizontal
Remark:									
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor.									
2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 1 – 802.11n(HT20)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	38.92	38.83	9.82	3.95	41.97	49.55	68.20	-18.65	Vertical
10360.00	37.46	38.83	9.82	3.95	41.97	48.09	68.20	-20.11	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	35.26	38.83	9.82	3.95	41.97	45.89	54.00	-8.11	Vertical
10360.00	34.91	38.83	9.82	3.95	41.97	45.54	54.00	-8.46	Horizontal
Test channel: Middle channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	38.65	38.87	9.85	3.98	41.95	49.40	68.20	-18.80	Vertical
10400.00	37.64	38.87	9.85	3.98	41.95	48.39	68.20	-19.81	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	35.61	38.87	9.85	3.98	41.95	46.36	54.00	-7.64	Vertical
10400.00	34.22	38.87	9.85	3.98	41.95	44.97	54.00	-9.03	Horizontal
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	38.94	38.94	9.96	4.02	41.88	49.98	68.20	-18.22	Vertical
10480.00	37.46	38.94	9.96	4.02	41.88	48.50	68.20	-19.70	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	35.24	38.94	9.96	4.02	41.88	46.28	54.00	-7.72	Vertical
10480.00	34.16	38.94	9.96	4.02	41.88	45.20	54.00	-8.80	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 1 – 802.11n(HT40)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	38.64	38.25	9.85	3.95	41.95	48.74	68.20	-19.46	Vertical
10380.00	37.23	38.25	9.85	3.95	41.95	47.33	68.20	-20.87	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	35.37	38.25	9.85	3.95	41.95	45.47	54.00	-8.53	Vertical
10380.00	35.11	38.25	9.85	3.95	41.95	45.21	54.00	-8.79	Horizontal
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	38.91	38.92	9.92	3.98	41.90	49.83	68.20	-18.37	Vertical
10460.00	37.46	38.92	9.92	3.98	41.90	48.38	68.20	-19.82	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	35.26	38.92	9.92	3.98	41.90	46.18	54.00	-7.82	Vertical
10460.00	34.33	38.92	9.92	3.98	41.90	45.25	54.00	-8.75	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 1 – 802.11ac(HT20)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	38.94	38.83	9.82	3.95	41.97	49.57	68.20	-18.63	Vertical
10360.00	37.41	38.83	9.82	3.95	41.97	48.04	68.20	-20.16	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	35.93	38.83	9.82	3.95	41.97	46.56	54.00	-7.44	Vertical
10360.00	35.41	38.83	9.82	3.95	41.97	46.04	54.00	-7.96	Horizontal
Test channel: Middle channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	38.46	38.87	9.85	3.98	41.95	49.21	68.20	-18.99	Vertical
10400.00	37.26	38.87	9.85	3.98	41.95	48.01	68.20	-20.19	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	35.41	38.87	9.85	3.98	41.95	46.16	54.00	-7.84	Vertical
10400.00	34.33	38.87	9.85	3.98	41.95	45.08	54.00	-8.92	Horizontal
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	38.92	38.94	9.96	4.02	41.88	49.96	68.20	-18.24	Vertical
10480.00	37.49	38.94	9.96	4.02	41.88	48.53	68.20	-19.67	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	35.26	38.94	9.96	4.02	41.88	46.30	54.00	-7.70	Vertical
10480.00	34.29	38.94	9.96	4.02	41.88	45.33	54.00	-8.67	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 1 – 802.11ac(HT40)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	38.61	38.25	9.85	3.95	41.95	48.71	68.20	-19.49	Vertical
10380.00	37.92	38.25	9.85	3.95	41.95	48.02	68.20	-20.18	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	35.16	38.25	9.85	3.95	41.95	45.26	54.00	-8.74	Vertical
10380.00	35.26	38.25	9.85	3.95	41.95	45.36	54.00	-8.64	Horizontal
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	38.41	38.92	9.92	3.98	41.90	49.33	68.20	-18.87	Vertical
10460.00	37.11	38.92	9.92	3.98	41.90	48.03	68.20	-20.17	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	35.26	38.92	9.92	3.98	41.90	46.18	54.00	-7.82	Vertical
10460.00	34.19	38.92	9.92	3.98	41.90	45.11	54.00	-8.89	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 4:

Band 4 – 802.11a									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	38.31	39.50	10.81	4.21	42.29	46.33	74.00	-27.67	Vertical
11490.00	37.37	39.50	10.81	4.21	42.29	45.39	74.00	-28.61	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	35.28	39.50	10.81	4.21	42.29	43.30	54.00	-10.70	Vertical
11490.00	34.11	39.50	10.81	4.21	42.29	42.13	54.00	-11.87	Horizontal
Test channel: Middle channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	38.26	39.52	10.78	4.21	42.27	46.29	74.00	-27.71	Vertical
11570.00	37.64	39.52	10.78	4.21	42.27	45.67	74.00	-28.33	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	35.91	39.52	10.78	4.21	42.27	43.94	54.00	-10.06	Vertical
11570.00	34.22	39.52	10.78	4.21	42.27	42.25	54.00	-11.75	Horizontal
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	38.92	39.53	10.76	4.21	42.26	46.95	74.00	-27.05	Vertical
11650.00	37.16	39.53	10.76	4.21	42.26	45.19	74.00	-28.81	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	35.82	39.53	10.76	4.21	42.26	43.85	54.00	-10.15	Vertical
11650.00	34.26	39.53	10.76	4.21	42.26	42.29	54.00	-11.71	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

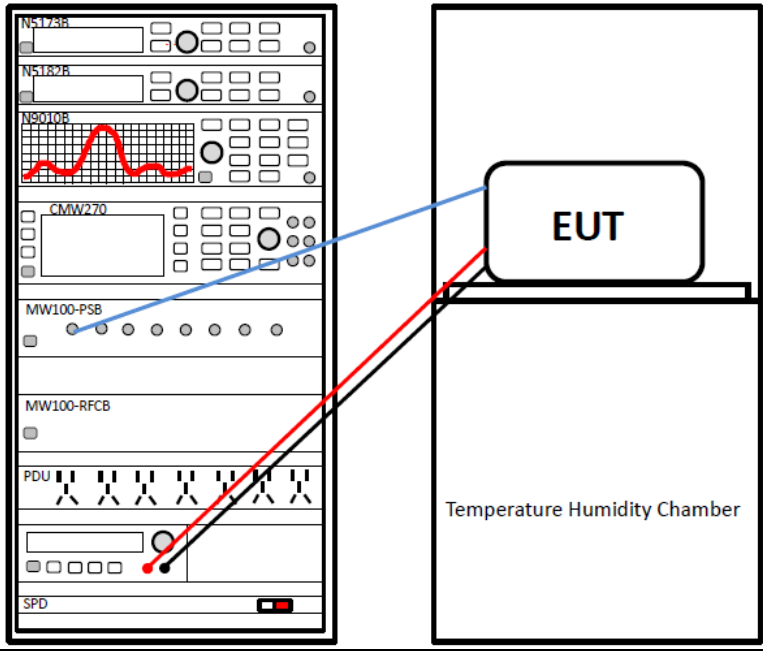
Band 4 – 802.11n(HT20)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	38.41	39.50	10.81	4.21	42.29	46.43	74.00	-27.57	Vertical
11490.00	37.26	39.50	10.81	4.21	42.29	45.28	74.00	-28.72	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	35.14	39.50	10.81	4.21	42.29	43.16	54.00	-10.84	Vertical
11490.00	34.53	39.50	10.81	4.21	42.29	42.55	54.00	-11.45	Horizontal
Test channel: Middle channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	38.91	39.52	10.78	4.21	42.27	46.94	74.00	-27.06	Vertical
11570.00	37.46	39.52	10.78	4.21	42.27	45.49	74.00	-28.51	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	35.41	39.52	10.78	4.21	42.27	43.44	54.00	-10.56	Vertical
11570.00	35.22	39.52	10.78	4.21	42.27	43.25	54.00	-10.75	Horizontal
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	38.47	39.53	10.76	4.21	42.26	46.50	74.00	-27.50	Vertical
11650.00	37.92	39.53	10.76	4.21	42.26	45.95	74.00	-28.05	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	35.41	39.53	10.76	4.21	42.26	43.44	54.00	-10.56	Vertical
11650.00	35.23	39.53	10.76	4.21	42.26	43.26	54.00	-10.74	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 4 – 802.11n(HT40)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11510.00	38.31	39.50	10.81	4.21	42.29	46.33	74.00	-27.67	Vertical
11510.00	37.41	39.50	10.81	4.21	42.29	45.43	74.00	-28.57	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11510.00	35.25	39.50	10.81	4.21	42.29	43.27	54.00	-10.73	Vertical
11510.00	34.18	39.50	10.81	4.21	42.29	42.20	54.00	-11.80	Horizontal
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11590.00	39.36	39.52	10.77	4.21	42.27	47.38	74.00	-26.62	Vertical
11590.00	37.10	39.52	10.77	4.21	42.27	45.12	74.00	-28.88	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11590.00	35.16	39.52	10.77	4.21	42.27	43.18	54.00	-10.82	Vertical
11590.00	34.36	39.52	10.77	4.21	42.27	42.38	54.00	-11.62	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 4 – 802.11ac(HT20)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	39.33	39.50	10.81	4.21	42.29	47.35	74.00	-26.65	Vertical
11490.00	37.76	39.50	10.81	4.21	42.29	45.78	74.00	-28.22	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	35.64	39.50	10.81	4.21	42.29	43.66	54.00	-10.34	Vertical
11490.00	35.89	39.50	10.81	4.21	42.29	43.91	54.00	-10.09	Horizontal
Test channel: Middle channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	39.45	39.52	10.78	4.21	42.27	47.48	74.00	-26.52	Vertical
11570.00	37.70	39.52	10.78	4.21	42.27	45.73	74.00	-28.27	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	35.97	39.52	10.78	4.21	42.27	44.00	54.00	-10.00	Vertical
11570.00	35.41	39.52	10.78	4.21	42.27	43.44	54.00	-10.56	Horizontal
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	39.22	39.53	10.76	4.21	42.26	47.25	74.00	-26.75	Vertical
11650.00	37.49	39.53	10.76	4.21	42.26	45.52	74.00	-28.48	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	35.41	39.53	10.76	4.21	42.26	43.44	54.00	-10.56	Vertical
11650.00	35.92	39.53	10.76	4.21	42.26	43.95	54.00	-10.05	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

Band 4 – 802.11ac(HT40)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11510.00	39.30	39.50	10.81	4.21	42.29	47.32	74.00	-26.68	Vertical
11510.00	37.18	39.50	10.81	4.21	42.29	45.20	74.00	-28.80	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11510.00	35.64	39.50	10.81	4.21	42.29	43.66	54.00	-10.34	Vertical
11510.00	35.19	39.50	10.81	4.21	42.29	43.21	54.00	-10.79	Horizontal
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11590.00	39.36	39.52	10.77	4.21	42.27	47.38	74.00	-26.62	Vertical
11590.00	37.10	39.52	10.77	4.21	42.27	45.12	74.00	-28.88	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11590.00	35.89	39.52	10.77	4.21	42.27	43.91	54.00	-10.09	Vertical
11590.00	34.13	39.52	10.77	4.21	42.27	42.15	54.00	-11.85	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.									

6.8 Frequency stability

Test Requirement:	FCC Part15 E Section 15.407 (g)
Limit:	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
Test setup:	 The diagram illustrates the test setup. On the left, a rack of test equipment is shown, including a signal generator (NS175B), a signal analyzer (NS182B), a spectrum analyzer (NS100B), a power supply (CMW270), a power meter (MW100-PSB), a power meter (MW100-RFCB), a PDU, and a SPD. A red line connects the signal generator to the EUT. A blue line connects the signal analyzer to the EUT. The EUT is placed inside a Temperature Humidity Chamber.
Test procedure:	1. The EUT is installed in an environment test chamber with external power source. 2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT. 3. A sufficient stabilization period at each temperature is used prior to each frequency measurement. 4. When temperature is stabled, measure the frequency stability. 5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (the worst channel):
Band 1:
Voltage vs. Frequency Stability (Lowest channel=5180MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(°C)	Voltage(dc)		
20	3.50V	5179.997643	0.45
	3.85V	5179.974779	4.87
	4.40V	5179.963951	6.96

Temperature vs. Frequency Stability (Lowest channel=5180MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(dc)	Temp(°C)		
3.85V	-20	5179.987033	2.50
	-10	5179.995377	0.89
	0	5179.968421	6.10
	10	5179.987556	2.40
	20	5179.996681	0.64
	30	5179.974290	4.96
	40	5179.963775	6.99
	50	5179.974929	4.84

Band 4:
Voltage vs. Frequency Stability (Lowest channel=5745MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(°C)	Voltage(dc)		
20	3.50V	5744.974766	4.39
	3.85V	5744.993381	1.15
	4.40V	5744.998588	0.25

Temperature vs. Frequency Stability (Lowest channel=5745MHz)

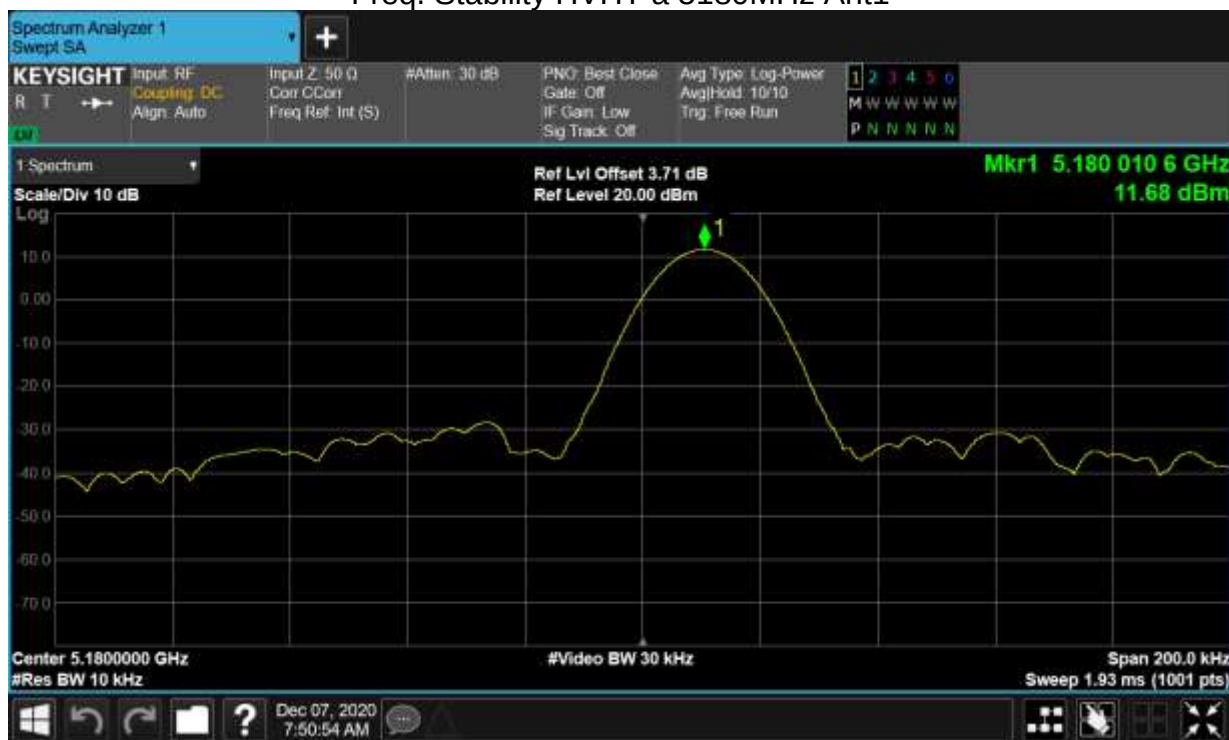
Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(dc)	Temp(°C)		
3.85V	-20	5744.994798	0.91
	-10	5744.993693	1.10
	0	5744.994771	0.91
	10	5744.985355	2.55
	20	5744.993864	1.07
	30	5744.994481	0.96
	40	5744.999347	0.11
	50	5744.992458	1.31

Appendix A – 5.2G WIFI Test Data

Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVHT	a	5180	Ant1	5180.0106	2.05	25	Pass
HVLT	a	5180	Ant1	5180.0106	2.05	25	Pass
LVHT	a	5180	Ant1	5180.0108	2.08	25	Pass
LVLT	a	5180	Ant1	5180.011	2.12	25	Pass
NVNT	a	5180	Ant1	5180.011	2.12	25	Pass
HVHT	n40	5190	Ant1	5190.0092	1.77	25	Pass
HVLT	n40	5190	Ant1	5190.0092	1.77	25	Pass
LVHT	n40	5190	Ant1	5190.0094	1.81	25	Pass
LVLT	n40	5190	Ant1	5190.0094	1.81	25	Pass
NVNT	n40	5190	Ant1	5190.0096	1.85	25	Pass

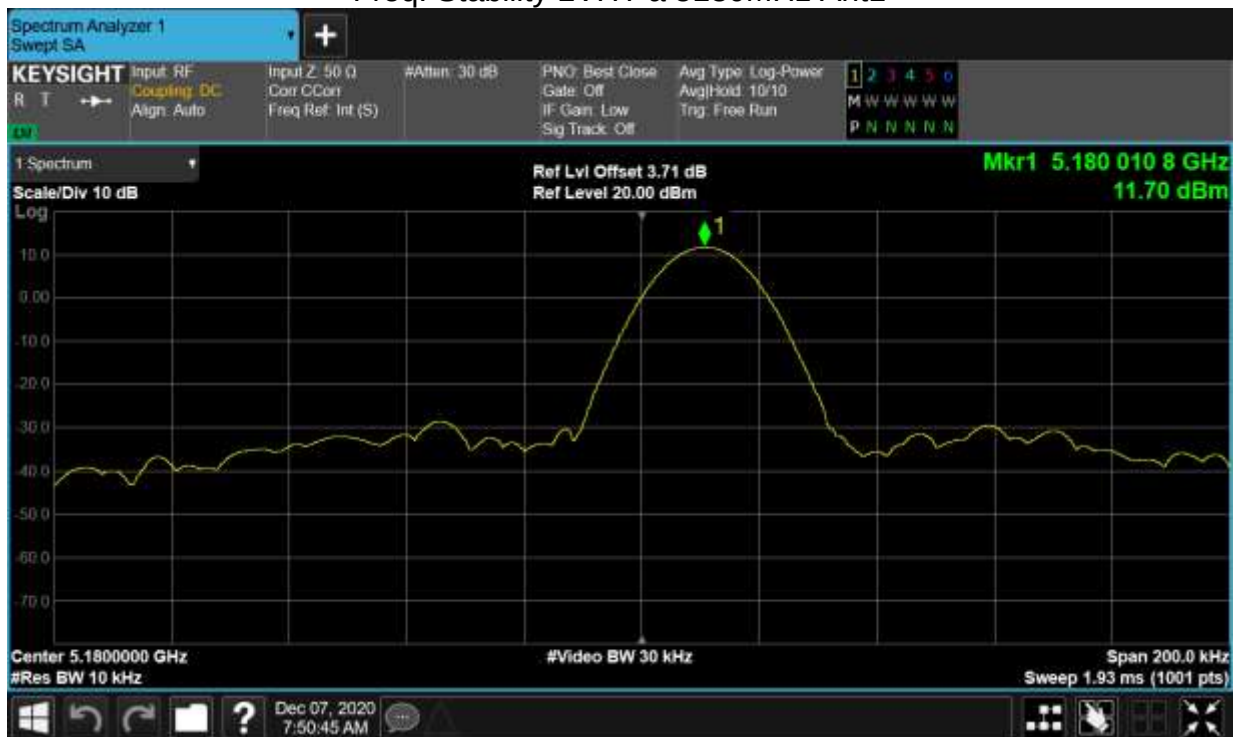
Freq. Stability HVHT a 5180MHz Ant1



Freq. Stability HVLt a 5180MHz Ant1



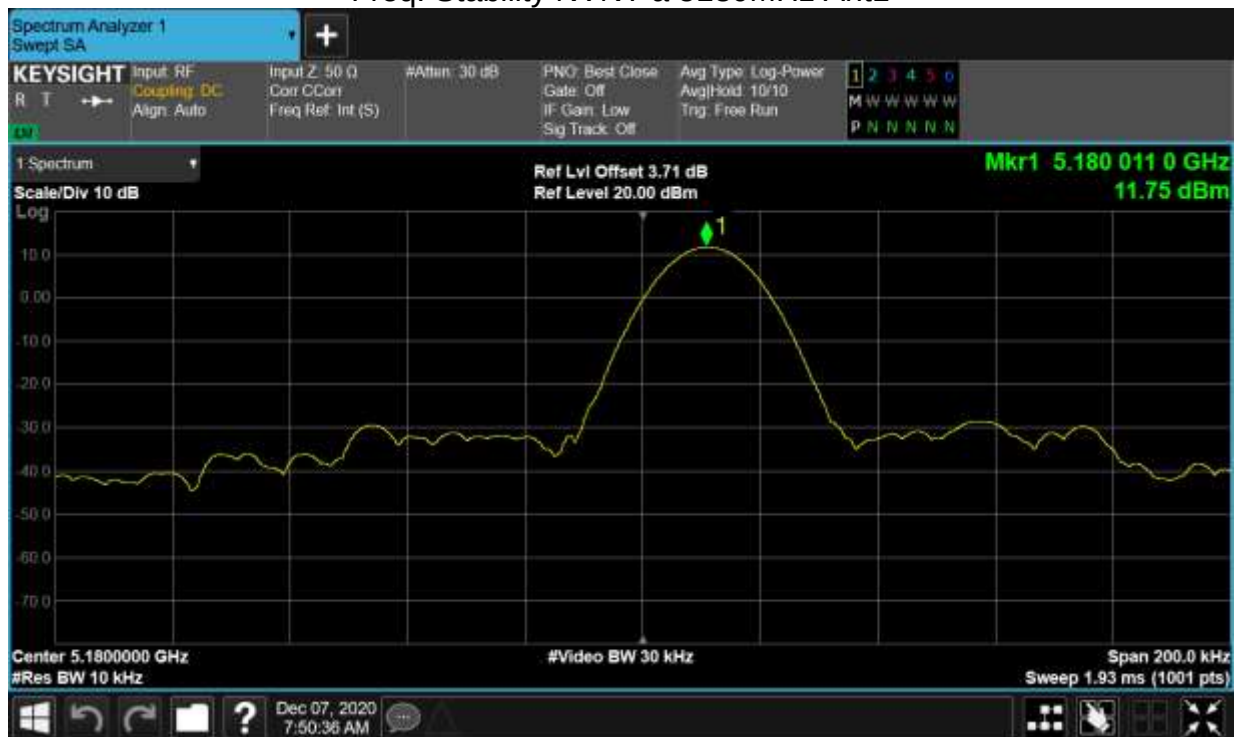
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Freq. Stability LVLTA 5180MHz Ant1



Freq. Stability NVNT a 5180MHz Ant1



Freq. Stability HVHT n40 5190MHz Ant1



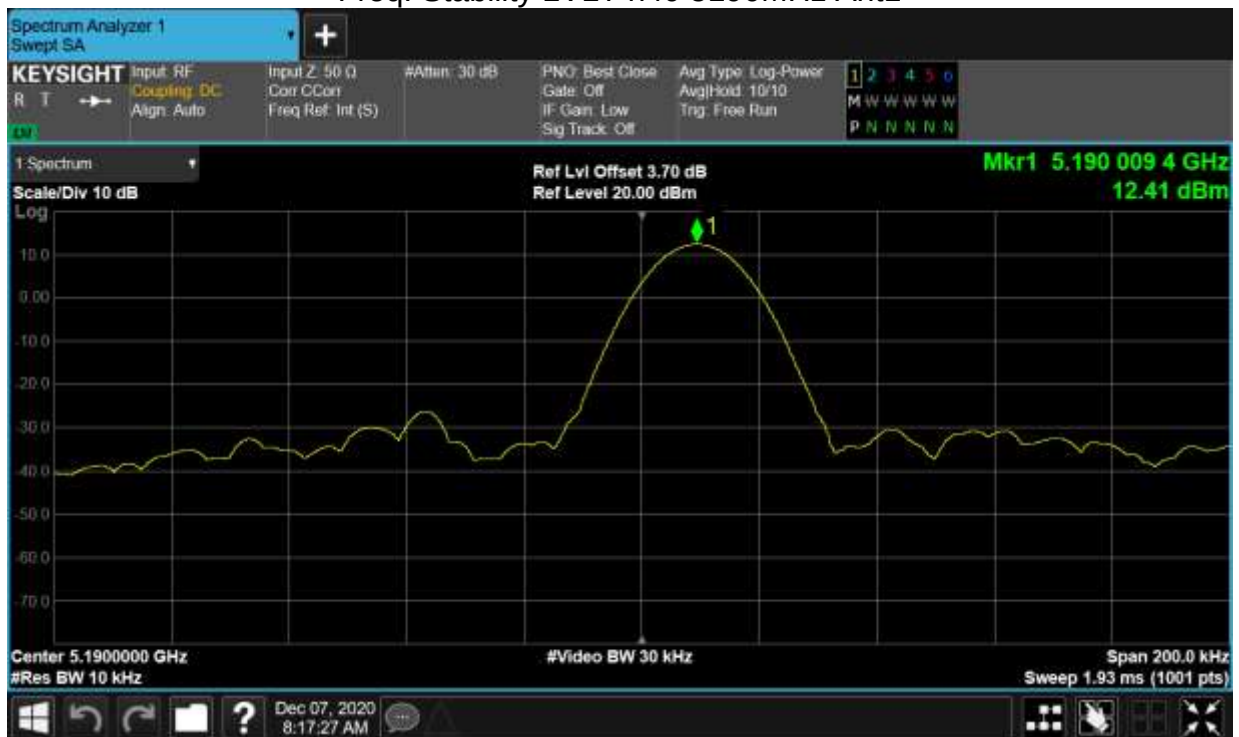
Freq. Stability HVLT n40 5190MHz Ant1



Freq. Stability LVHT n40 5190MHz Ant1



Freq. Stability LVLT n40 5190MHz Ant1



Freq. Stability NVNT n40 5190MHz Ant1



Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	100	0
NVNT	a	5200	Ant1	100	0
NVNT	a	5240	Ant1	100	0
NVNT	ac20	5180	Ant1	100	0
NVNT	ac20	5200	Ant1	100	0
NVNT	ac20	5240	Ant1	100	0
NVNT	ac40	5190	Ant1	100	0
NVNT	ac40	5230	Ant1	100	0
NVNT	n20	5180	Ant1	100	0
NVNT	n20	5200	Ant1	100	0
NVNT	n20	5240	Ant1	100	0
NVNT	n40	5190	Ant1	100	0
NVNT	n40	5230	Ant1	100	0

Duty Cycle NVNT a 5180MHz Ant1



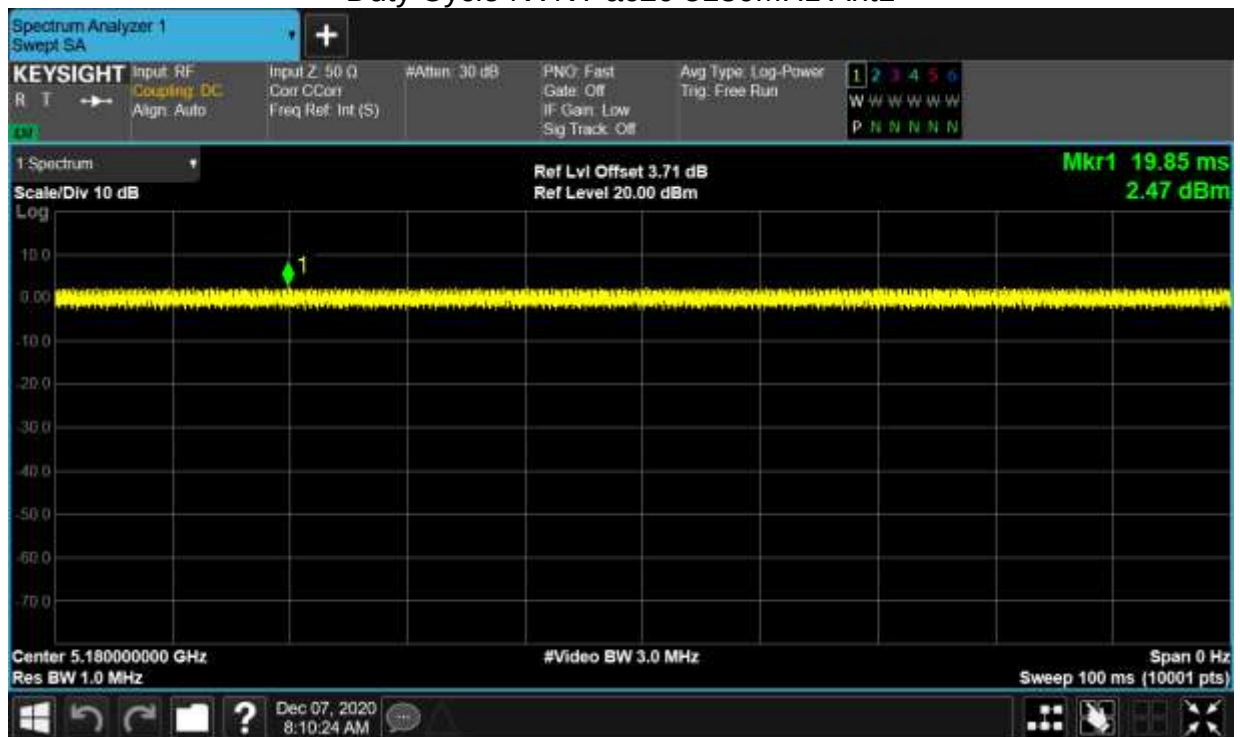
Duty Cycle NVNT a 5200MHz Ant1



Duty Cycle NVNT a 5240MHz Ant1



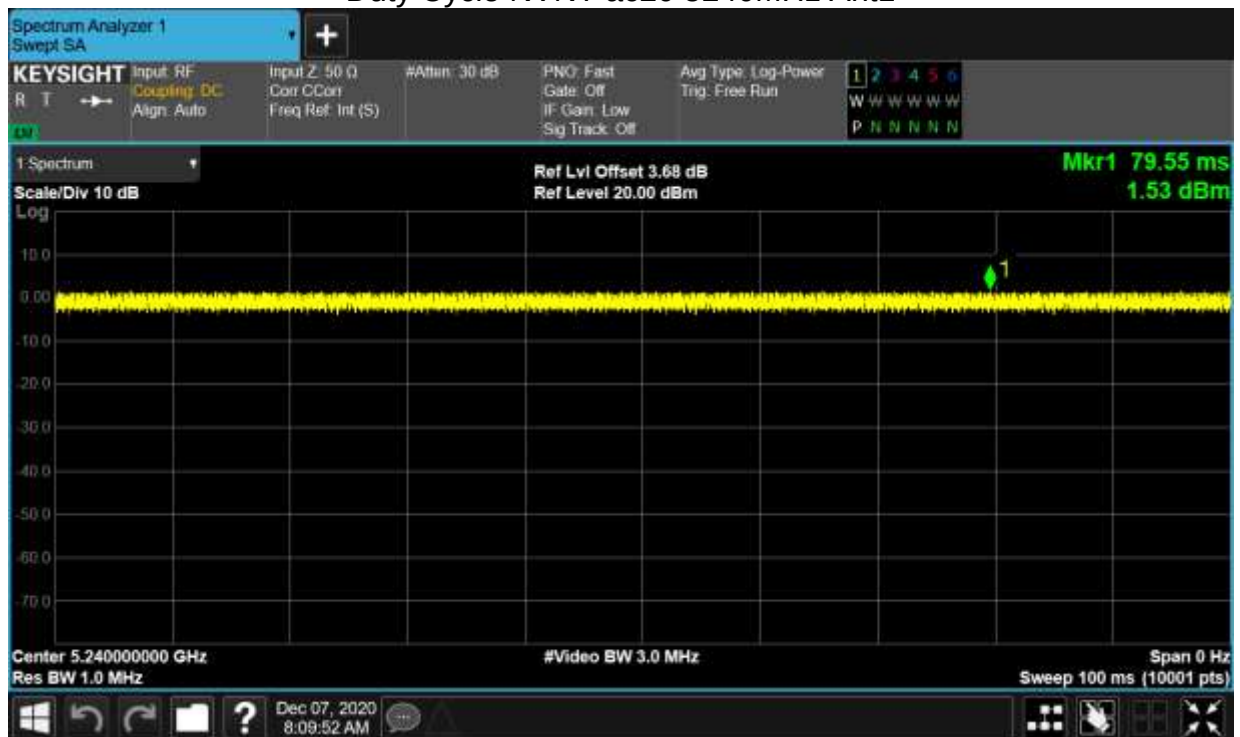
Duty Cycle NVNT ac20 5180MHz Ant1



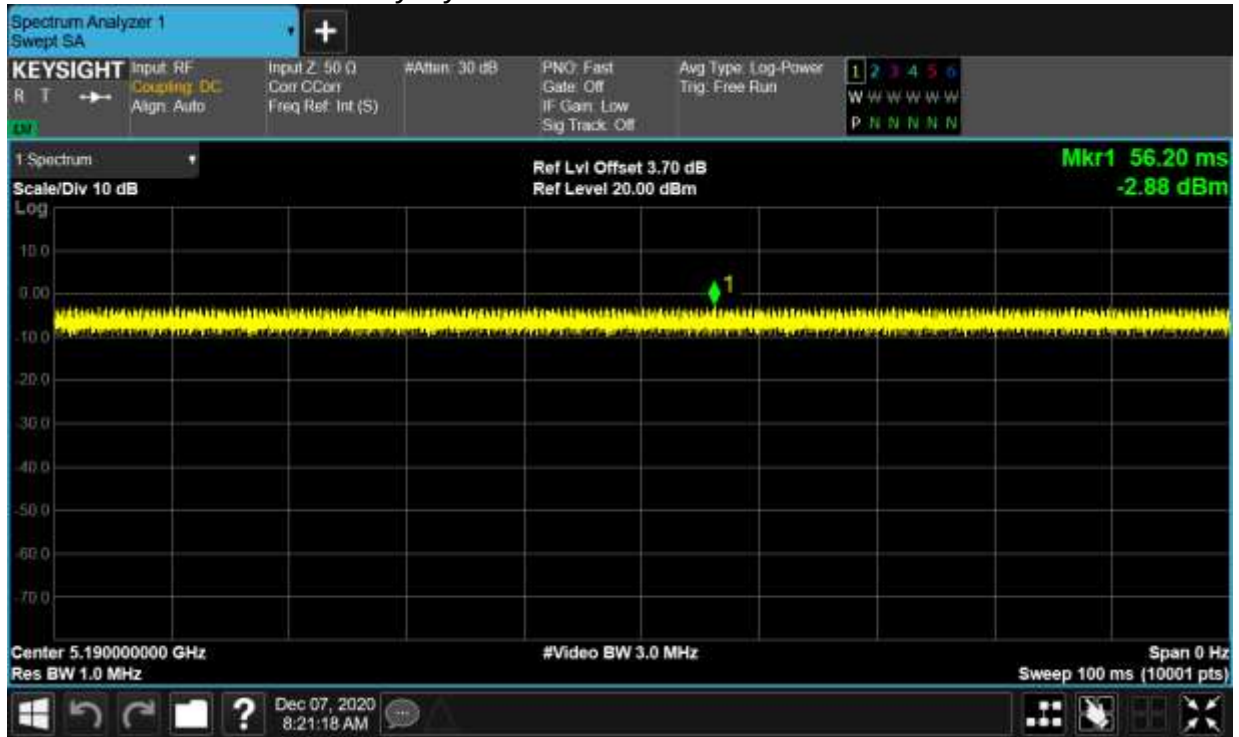
Duty Cycle NVNT ac20 5200MHz Ant1



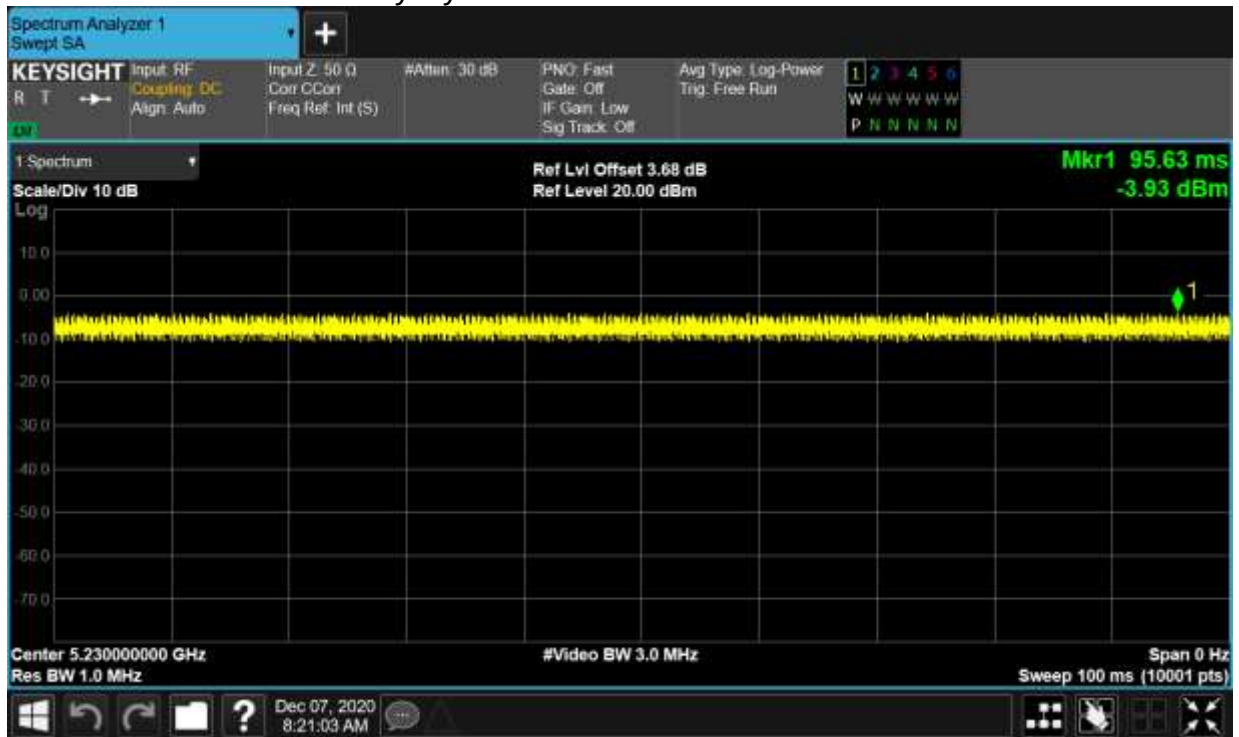
Duty Cycle NVNT ac20 5240MHz Ant1



Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT n20 5180MHz Ant1



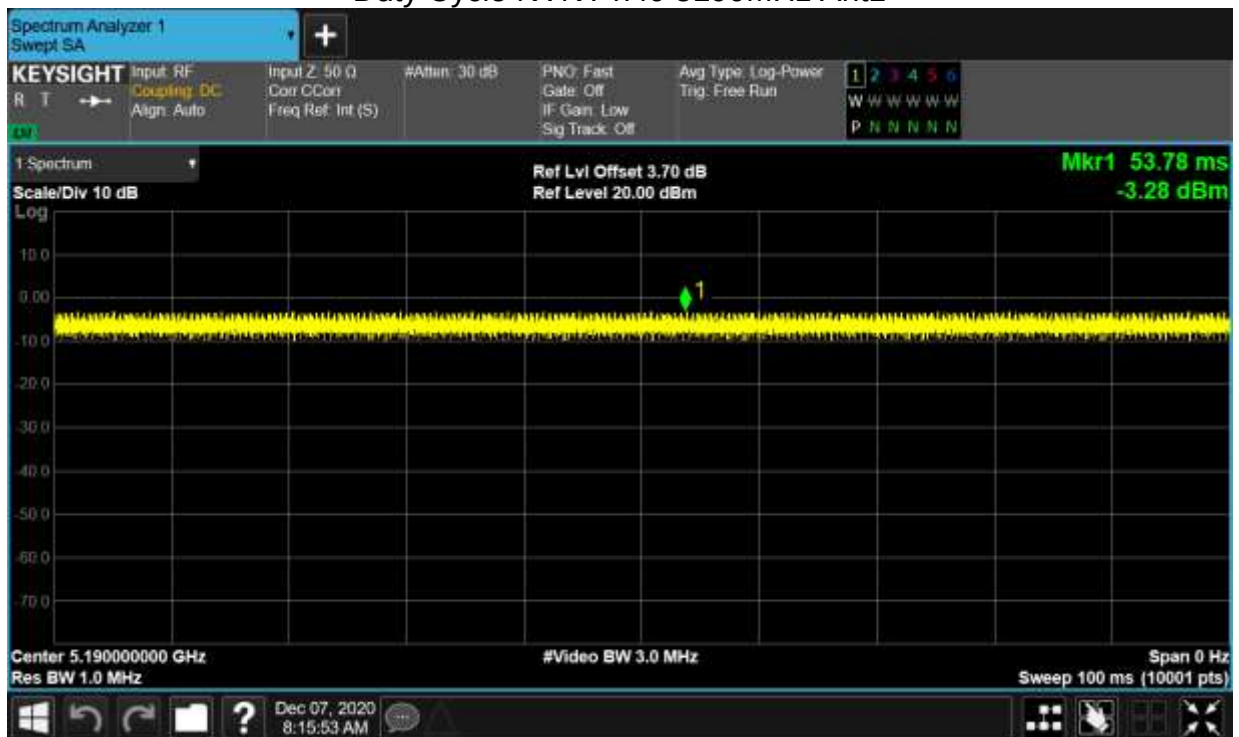
Duty Cycle NVNT n20 5200MHz Ant1



Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	6.37	0	6.37	24	Pass
NVNT	a	5200	Ant1	6.26	0	6.26	24	Pass
NVNT	a	5240	Ant1	6.05	0	6.05	24	Pass
NVNT	ac20	5180	Ant1	6.25	0	6.25	24	Pass
NVNT	ac20	5200	Ant1	6.37	0	6.37	24	Pass
NVNT	ac20	5240	Ant1	6.03	0	6.03	24	Pass
NVNT	ac40	5190	Ant1	6.1	0	6.1	24	Pass
NVNT	ac40	5230	Ant1	6.64	0	6.64	24	Pass
NVNT	n20	5180	Ant1	6.92	0	6.92	24	Pass
NVNT	n20	5200	Ant1	6.67	0	6.67	24	Pass
NVNT	n20	5240	Ant1	6.46	0	6.46	24	Pass
NVNT	n40	5190	Ant1	6.56	0	6.56	24	Pass
NVNT	n40	5230	Ant1	6.18	0	6.18	24	Pass

Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.60869187
NVNT	a	5200	Ant1	16.63204642

NVNT	a	5240	Ant1	16.62382378
NVNT	ac20	5180	Ant1	17.68873212
NVNT	ac20	5200	Ant1	17.69891019
NVNT	ac20	5240	Ant1	17.6808616
NVNT	ac40	5190	Ant1	36.14576898
NVNT	ac40	5230	Ant1	36.18282054
NVNT	n20	5180	Ant1	17.7171679
NVNT	n20	5200	Ant1	17.69192188
NVNT	n20	5240	Ant1	17.71096679
NVNT	n40	5190	Ant1	36.12717389
NVNT	n40	5230	Ant1	36.16043792

OBW NVNT a 5180MHz Ant1



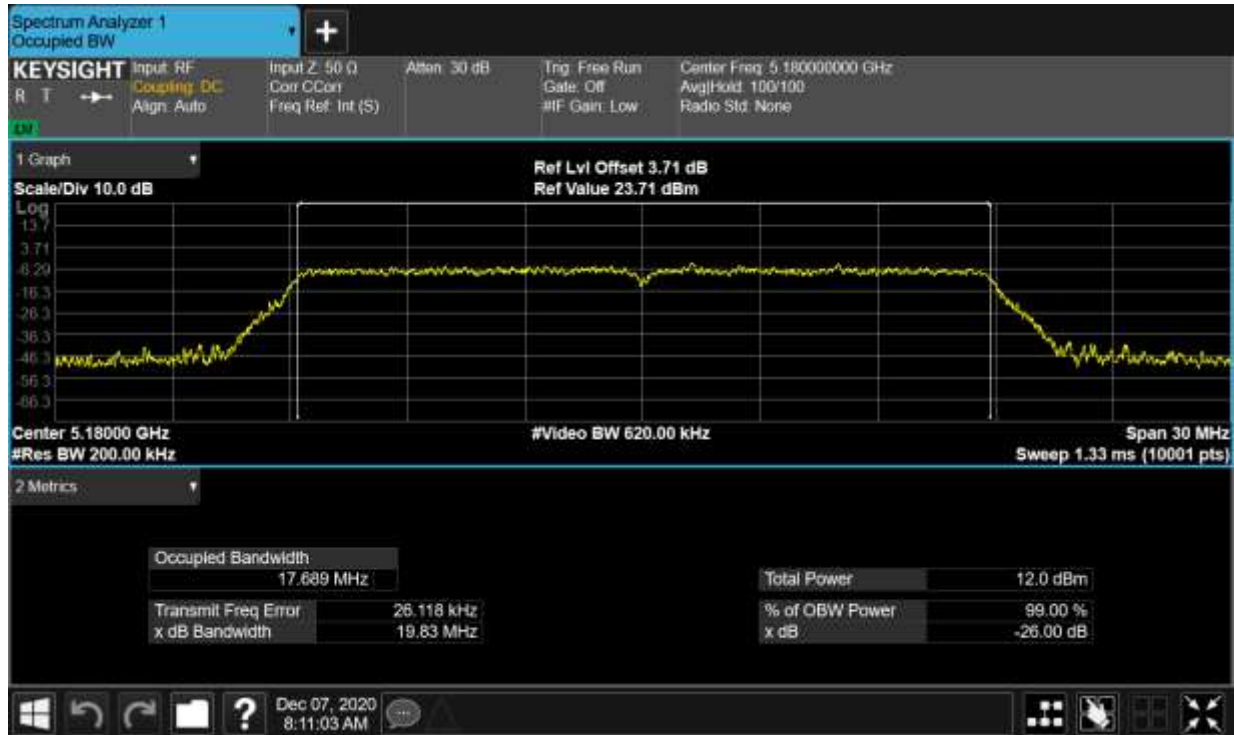
OBW NVNT a 5200MHz Ant1



OBW NVNT a 5240MHz Ant1



OBW NVNT ac20 5180MHz Ant1



OBW NVNT ac20 5200MHz Ant1



OBW NVNT ac20 5240MHz Ant1



OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1



OBW NVNT n20 5180MHz Ant1



OBW NVNT n20 5200MHz Ant1



OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5230MHz Ant1



Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-4.574	11	Pass
NVNT	a	5200	Ant1	-4.789	11	Pass
NVNT	a	5240	Ant1	-4.856	11	Pass
NVNT	ac20	5180	Ant1	-4.482	11	Pass

NVNT	ac20	5200	Ant1	-4.82	11	Pass
NVNT	ac20	5240	Ant1	-4.768	11	Pass
NVNT	ac40	5190	Ant1	-7.07	11	Pass
NVNT	ac40	5230	Ant1	-6.904	11	Pass
NVNT	n20	5180	Ant1	-4.329	11	Pass
NVNT	n20	5200	Ant1	-4.403	11	Pass
NVNT	n20	5240	Ant1	-3.812	11	Pass
NVNT	n40	5190	Ant1	-6.765	11	Pass
NVNT	n40	5230	Ant1	-5.963	11	Pass

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1



PSD NVNT a 5240MHz Ant1



PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5200MHz Ant1



PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1



PSD NVNT n20 5180MHz Ant1



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PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1

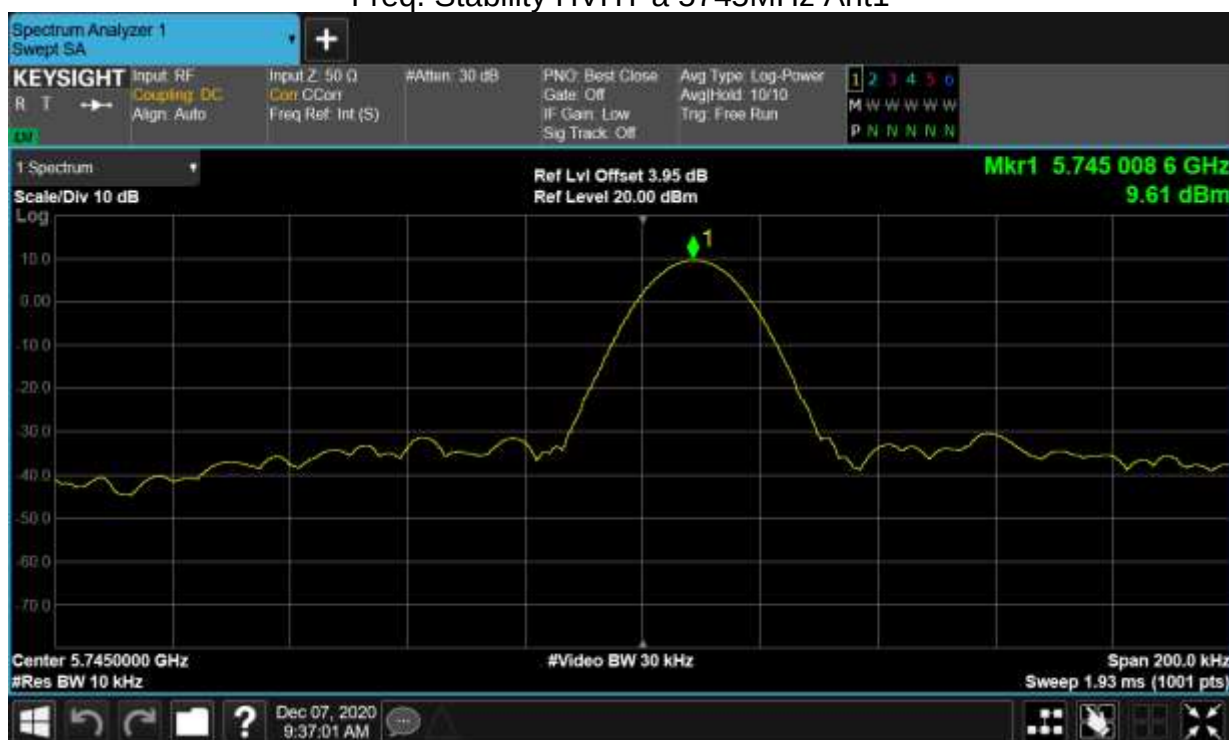


Appendix A – 5.8G WIFI Test Data

Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVHT	a	5745	Ant1	5745.0086	1.5	25	Pass
HVLT	a	5745	Ant1	5745.0088	1.53	25	Pass
LVHT	a	5745	Ant1	5745.0086	1.5	25	Pass
LVLT	a	5745	Ant1	5745.0086	1.5	25	Pass
NVNT	a	5745	Ant1	5745.0088	1.53	25	Pass
HVHT	n40	5755	Ant1	5755.0088	1.53	25	Pass
HVLT	n40	5755	Ant1	5755.0088	1.53	25	Pass
LVHT	n40	5755	Ant1	5755.0086	1.49	25	Pass
LVLT	n40	5755	Ant1	5755.0086	1.49	25	Pass
NVNT	n40	5755	Ant1	5755.0086	1.49	25	Pass

Freq. Stability HVHT a 5745MHz Ant1



Freq. Stability HVLt a 5745MHz Ant1



Freq. Stability LVHT a 5745MHz Ant1



Freq. Stability LVLTA 5745MHz Ant1



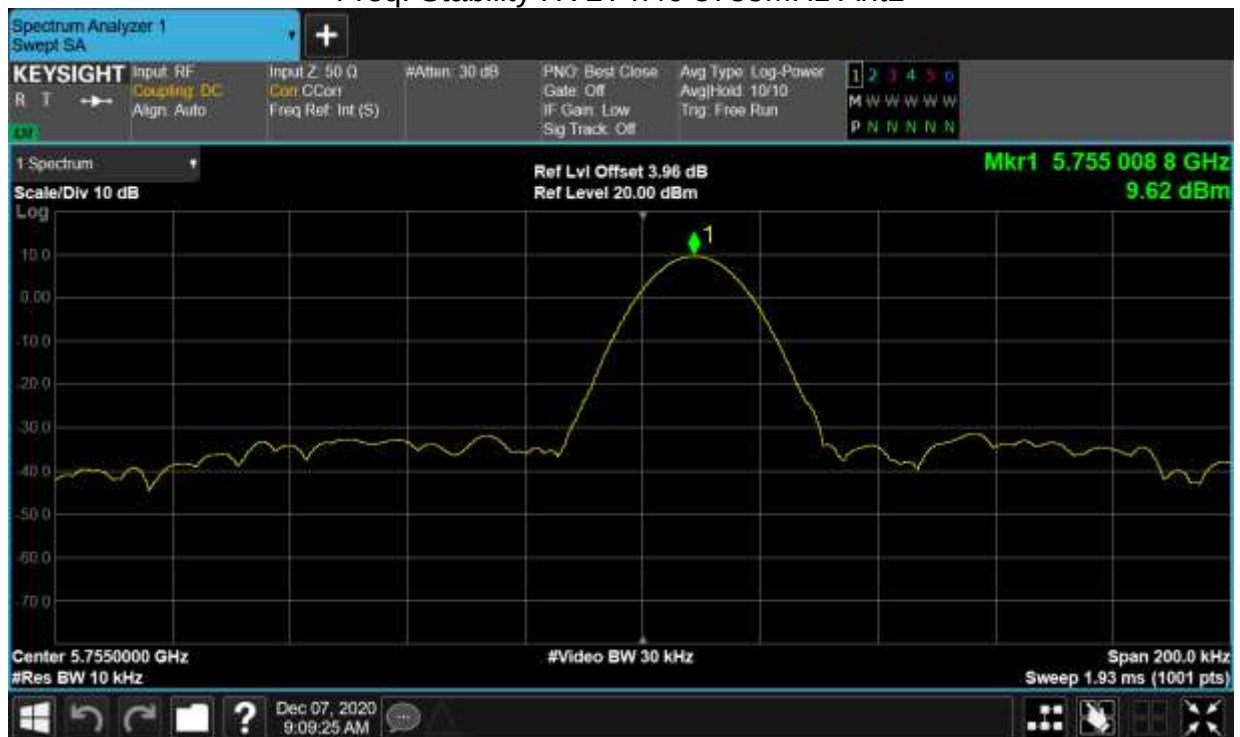
Freq. Stability NVNT a 5745MHz Ant1



Freq. Stability HVHT n40 5755MHz Ant1



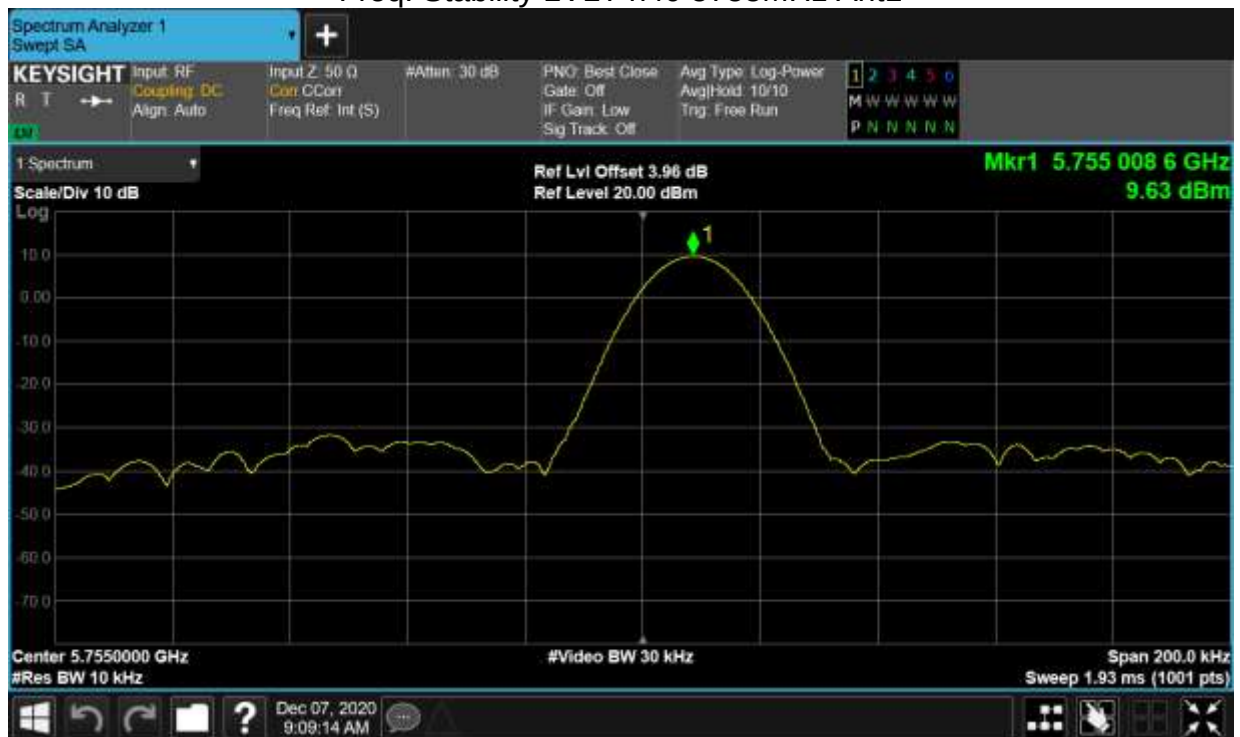
Freq. Stability HVLT n40 5755MHz Ant1



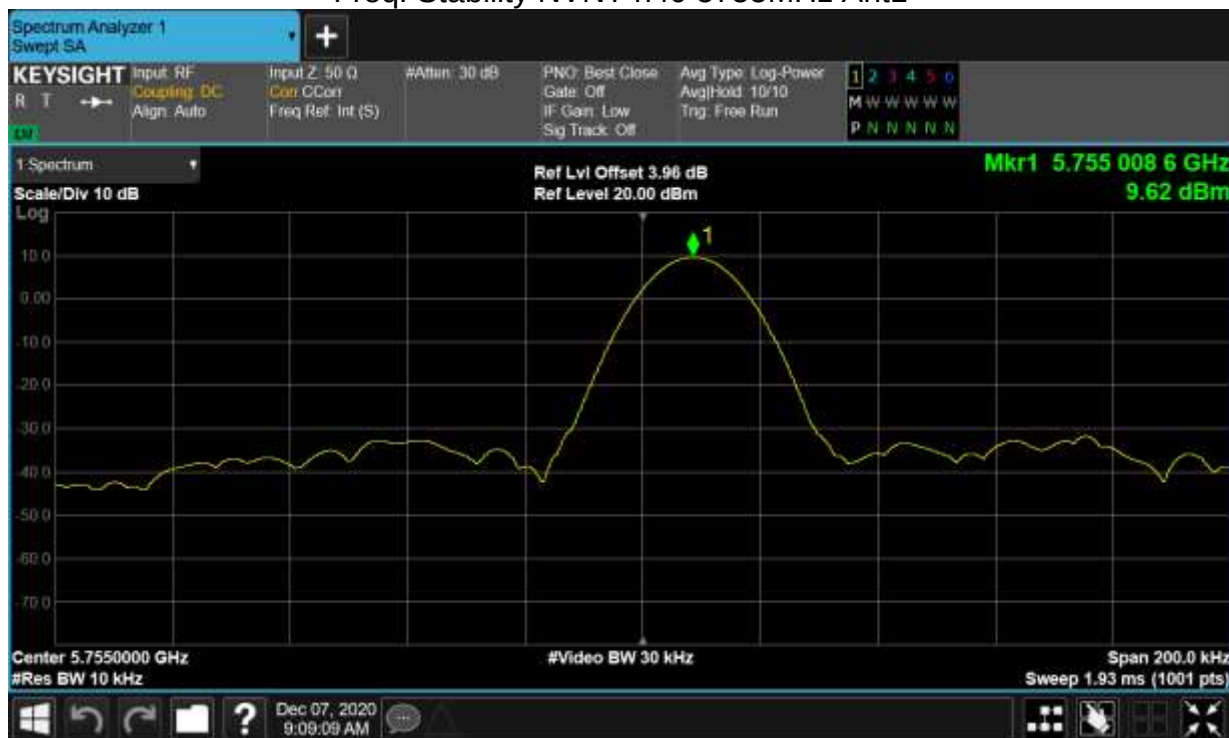
Freq. Stability LVHT n40 5755MHz Ant1



Freq. Stability LVLT n40 5755MHz Ant1



Freq. Stability NVNT n40 5755MHz Ant1



Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	100	0
NVNT	a	5785	Ant1	100	0
NVNT	a	5825	Ant1	100	0
NVNT	ac20	5745	Ant1	100	0
NVNT	ac20	5785	Ant1	100	0
NVNT	ac20	5825	Ant1	100	0
NVNT	ac40	5755	Ant1	100	0
NVNT	ac40	5795	Ant1	100	0
NVNT	n20	5745	Ant1	100	0
NVNT	n20	5785	Ant1	100	0
NVNT	n20	5825	Ant1	100	0
NVNT	n40	5755	Ant1	100	0
NVNT	n40	5795	Ant1	100	0

Duty Cycle NVNT a 5745MHz Ant1



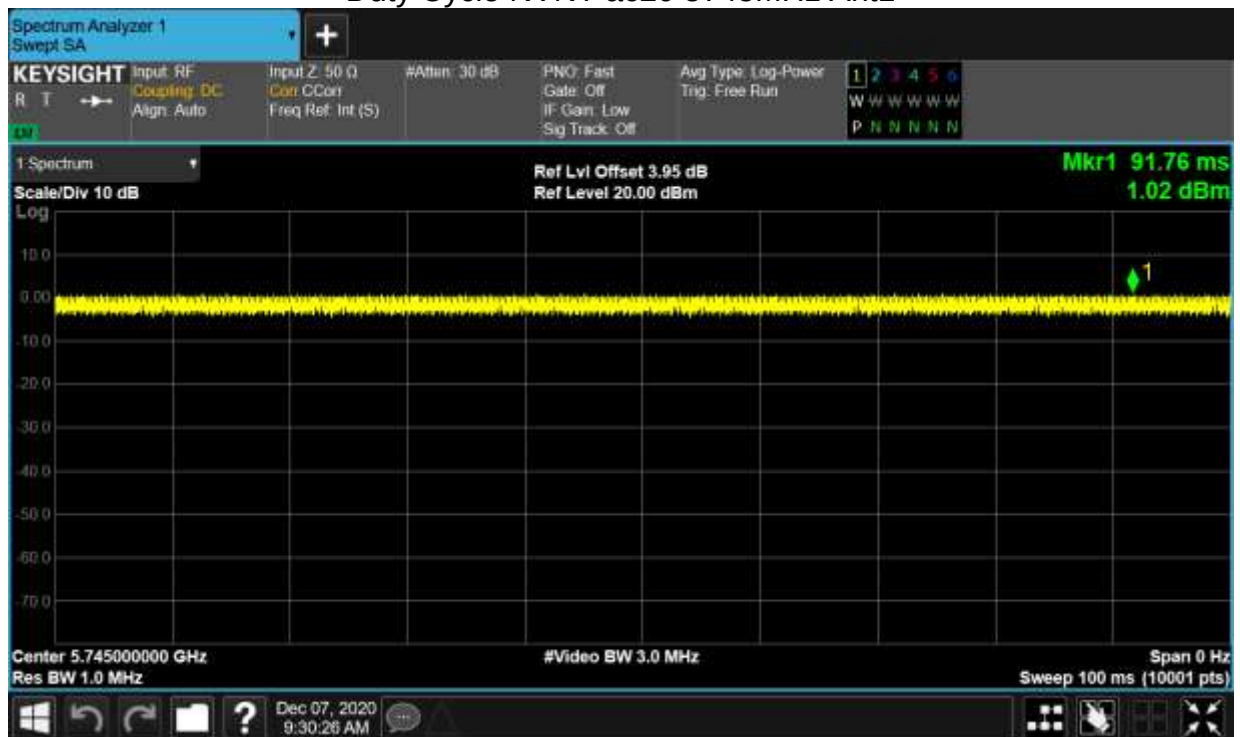
Duty Cycle NVNT a 5785MHz Ant1



Duty Cycle NVNT a 5825MHz Ant1



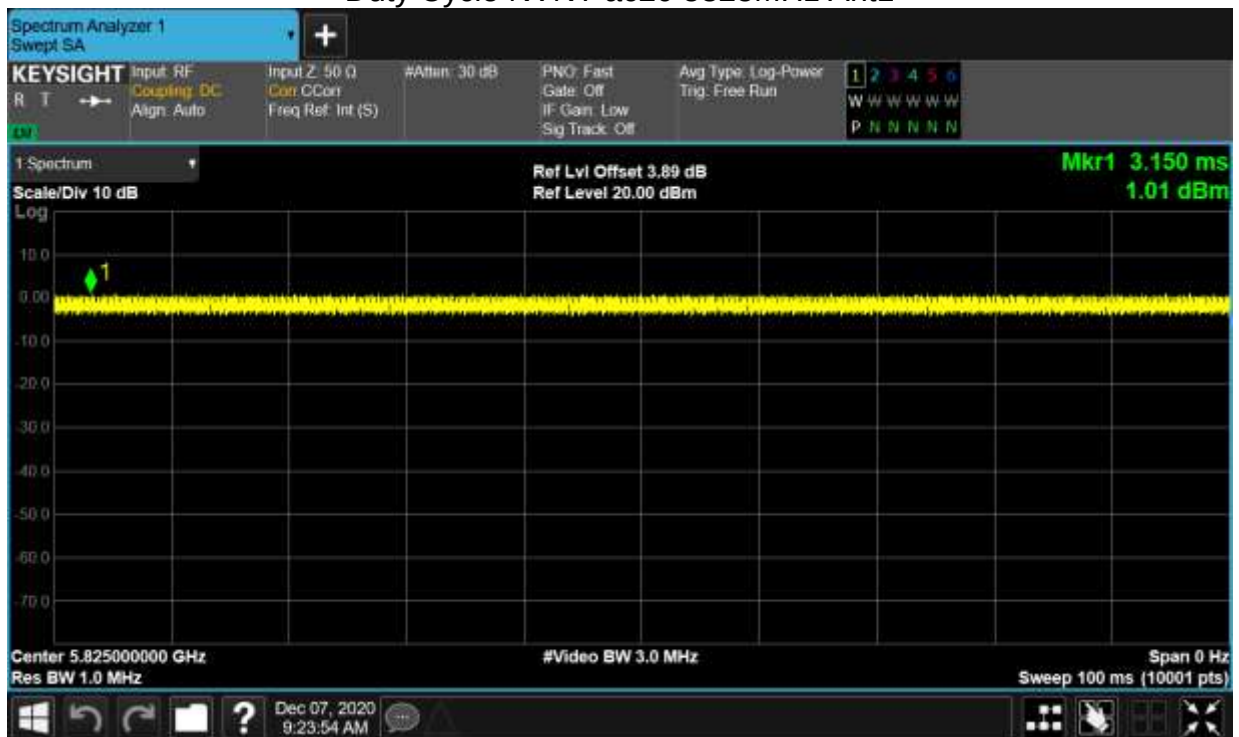
Duty Cycle NVNT ac20 5745MHz Ant1



Duty Cycle NVNT ac20 5785MHz Ant1



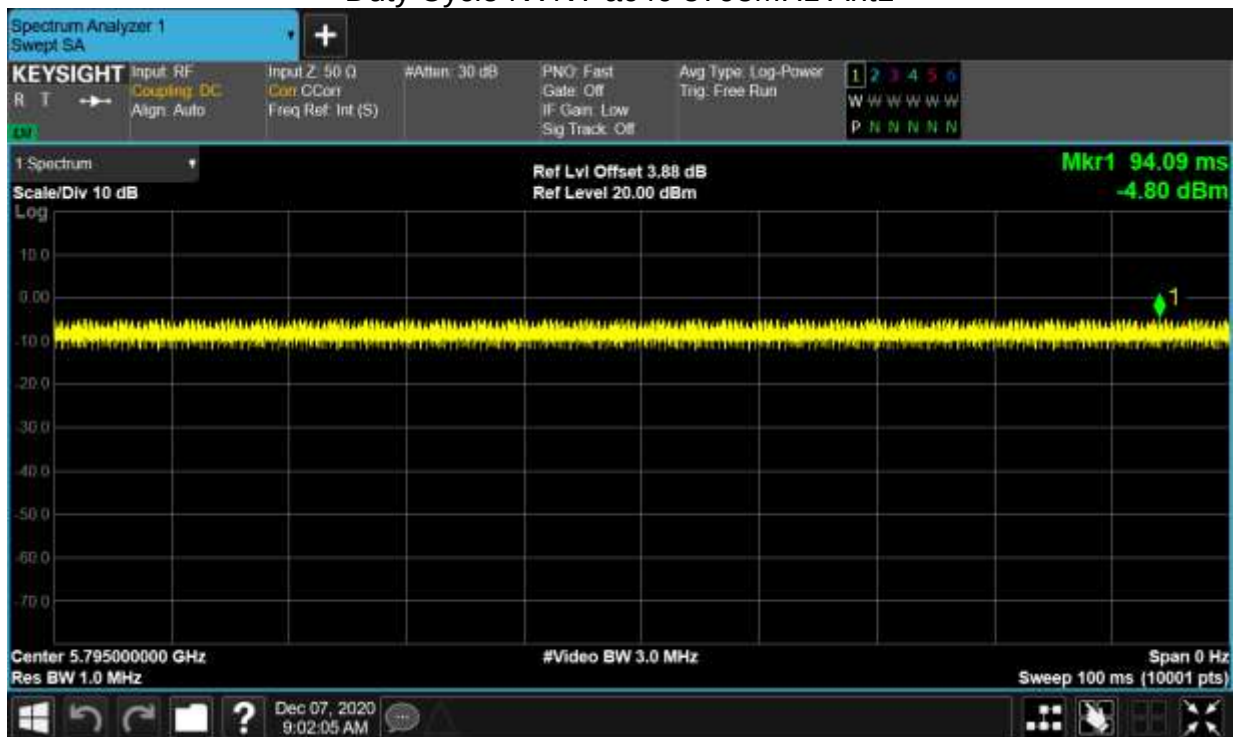
Duty Cycle NVNT ac20 5825MHz Ant1



Duty Cycle NVNT ac40 5755MHz Ant1



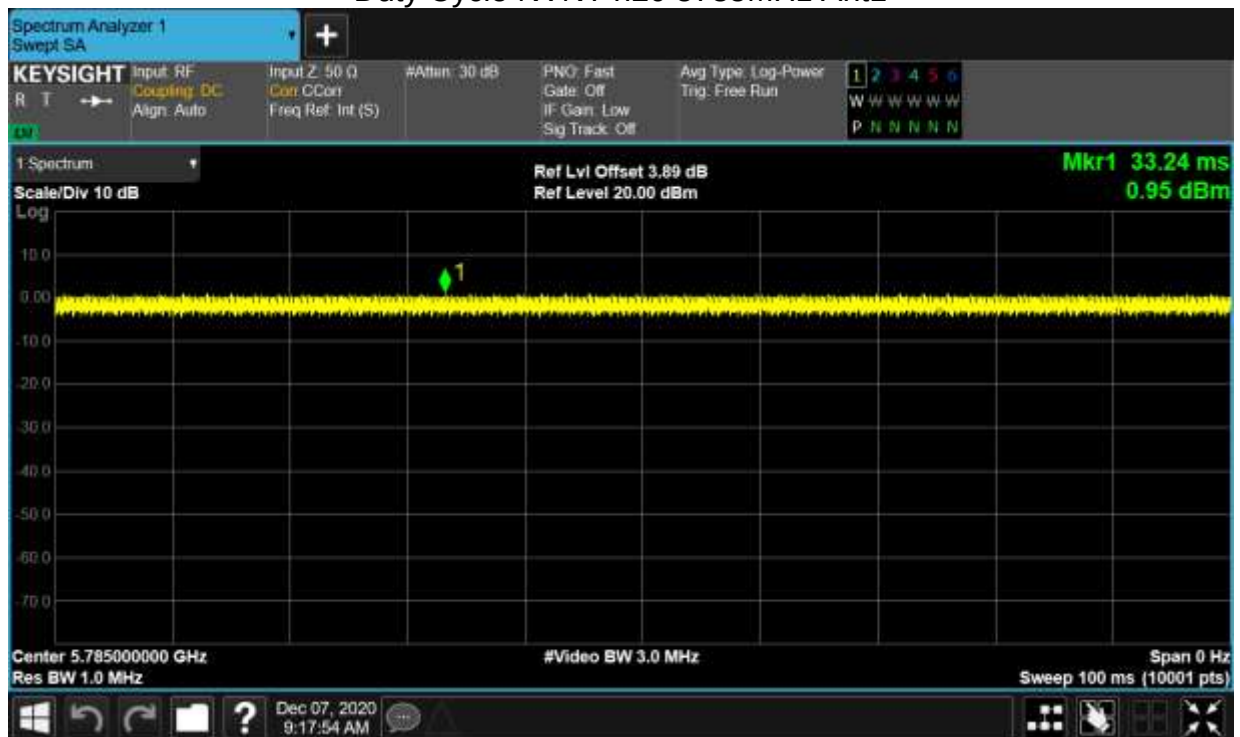
Duty Cycle NVNT ac40 5795MHz Ant1



Duty Cycle NVNT n20 5745MHz Ant1



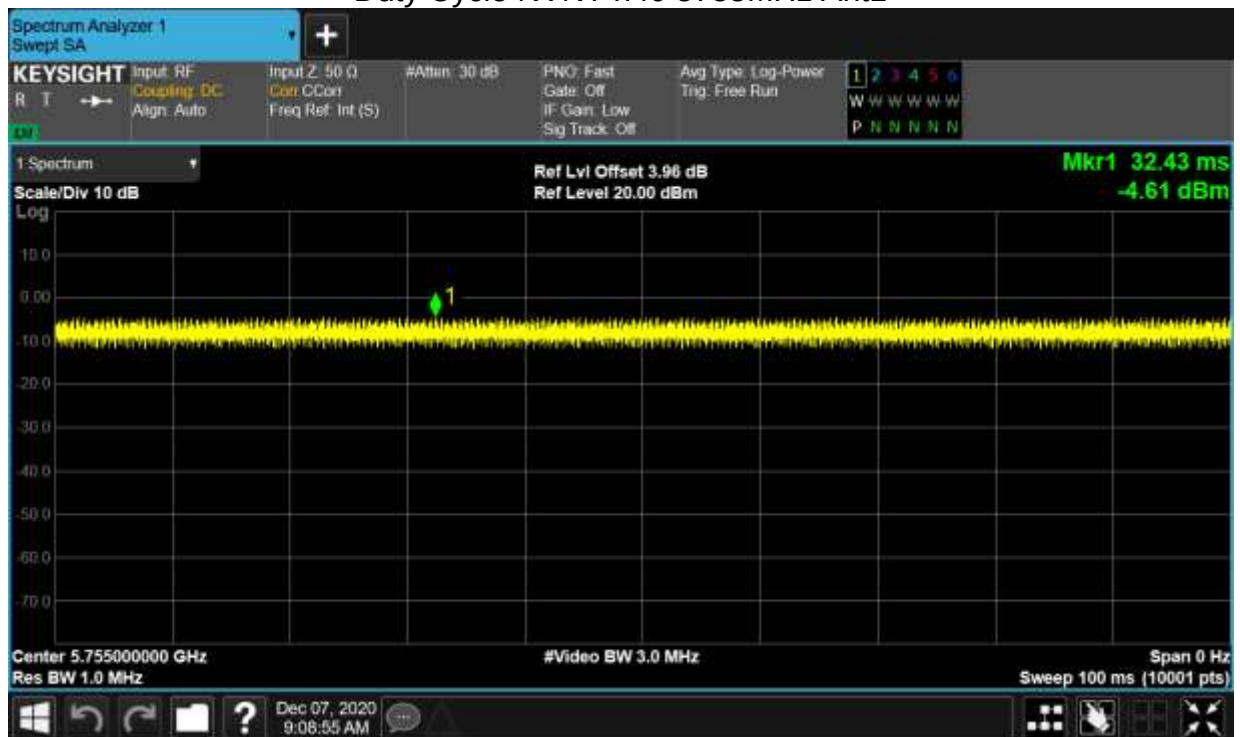
Duty Cycle NVNT n20 5785MHz Ant1



Duty Cycle NVNT n20 5825MHz Ant1



Duty Cycle NVNT n40 5755MHz Ant1



Duty Cycle NVNT n40 5795MHz Ant1



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	6.37	0	6.37	30	Pass
NVNT	a	5785	Ant1	6.71	0	6.71	30	Pass
NVNT	a	5825	Ant1	6.92	0	6.92	30	Pass
NVNT	ac20	5745	Ant1	6.39	0	6.39	30	Pass
NVNT	ac20	5785	Ant1	6.27	0	6.27	30	Pass
NVNT	ac20	5825	Ant1	6.34	0	6.34	30	Pass
NVNT	ac40	5755	Ant1	6.57	0	6.57	30	Pass
NVNT	ac40	5795	Ant1	6.35	0	6.35	30	Pass
NVNT	n20	5745	Ant1	6.42	0	6.42	30	Pass
NVNT	n20	5785	Ant1	6.71	0	6.71	30	Pass
NVNT	n20	5825	Ant1	6.43	0	6.43	30	Pass
NVNT	n40	5755	Ant1	6.69	0	6.69	30	Pass
NVNT	n40	5795	Ant1	6.22	0	6.22	30	Pass

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.347	0.5	Pass

NVNT	a	5785	Ant1	16.361	0.5	Pass
NVNT	a	5825	Ant1	16.343	0.5	Pass
NVNT	ac20	5745	Ant1	17.596	0.5	Pass
NVNT	ac20	5785	Ant1	17.552	0.5	Pass
NVNT	ac20	5825	Ant1	17.579	0.5	Pass
NVNT	ac40	5755	Ant1	35.718	0.5	Pass
NVNT	ac40	5795	Ant1	35.768	0.5	Pass
NVNT	n20	5745	Ant1	17.558	0.5	Pass
NVNT	n20	5785	Ant1	17.59	0.5	Pass
NVNT	n20	5825	Ant1	17.588	0.5	Pass
NVNT	n40	5755	Ant1	35.914	0.5	Pass
NVNT	n40	5795	Ant1	36.271	0.5	Pass

-6dB Bandwidth NVNT a 5745MHz Ant1



-6dB Bandwidth NVNT a 5785MHz Ant1



-6dB Bandwidth NVNT a 5825MHz Ant1



-6dB Bandwidth NVNT ac20 5745MHz Ant1



-6dB Bandwidth NVNT ac20 5785MHz Ant1



-6dB Bandwidth NVNT ac20 5825MHz Ant1



-6dB Bandwidth NVNT ac40 5755MHz Ant1



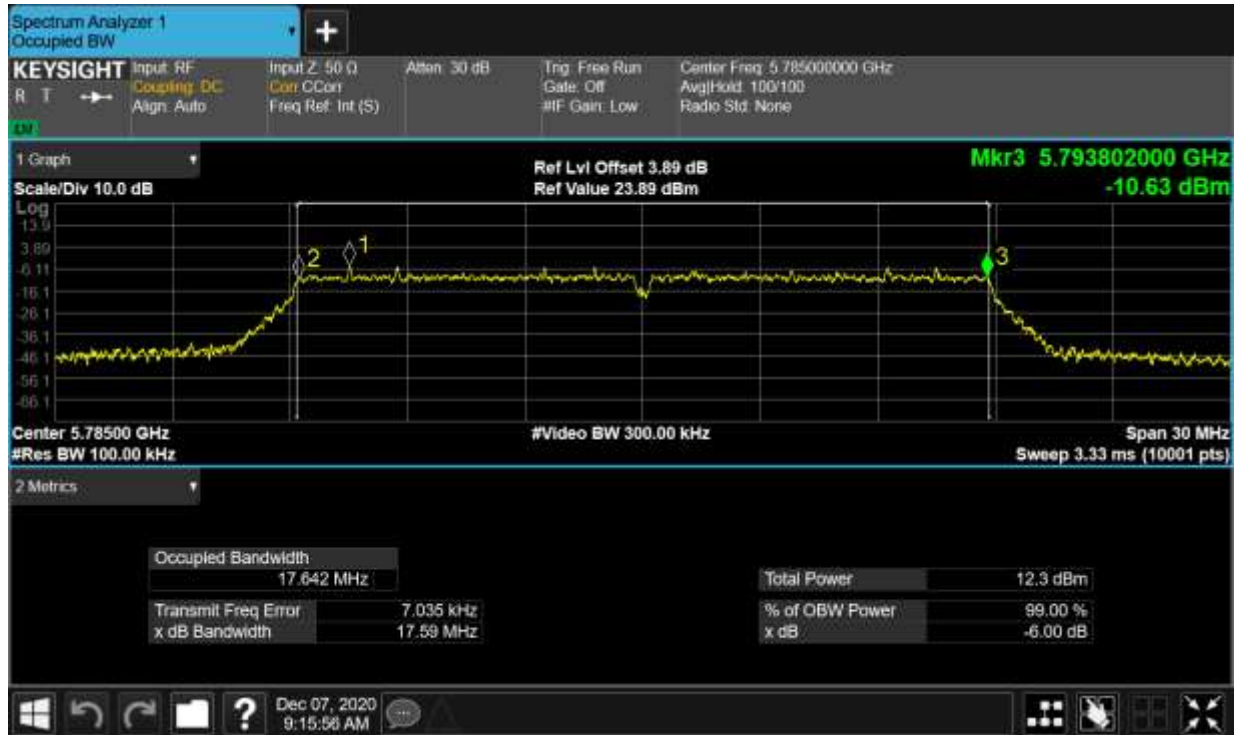
-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT n20 5745MHz Ant1



-6dB Bandwidth NVNT n20 5785MHz Ant1



-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.59263969
NVNT	a	5785	Ant1	16.62775715
NVNT	a	5825	Ant1	16.60299056
NVNT	ac20	5745	Ant1	17.68612329

NVNT	ac20	5785	Ant1	17.69653923
NVNT	ac20	5825	Ant1	17.71611337
NVNT	ac40	5755	Ant1	36.15329884
NVNT	ac40	5795	Ant1	36.19000505
NVNT	n20	5745	Ant1	17.69203763
NVNT	n20	5785	Ant1	17.70263952
NVNT	n20	5825	Ant1	17.69461795
NVNT	n40	5755	Ant1	36.15489575
NVNT	n40	5795	Ant1	36.24484936

OBW NVNT a 5745MHz Ant1



OBW NVNT a 5785MHz Ant1



OBW NVNT a 5825MHz Ant1



OBW NVNT ac20 5745MHz Ant1



OBW NVNT ac20 5785MHz Ant1



OBW NVNT ac20 5825MHz Ant1



OBW NVNT ac40 5755MHz Ant1



OBW NVNT ac40 5795MHz Ant1



OBW NVNT n20 5745MHz Ant1



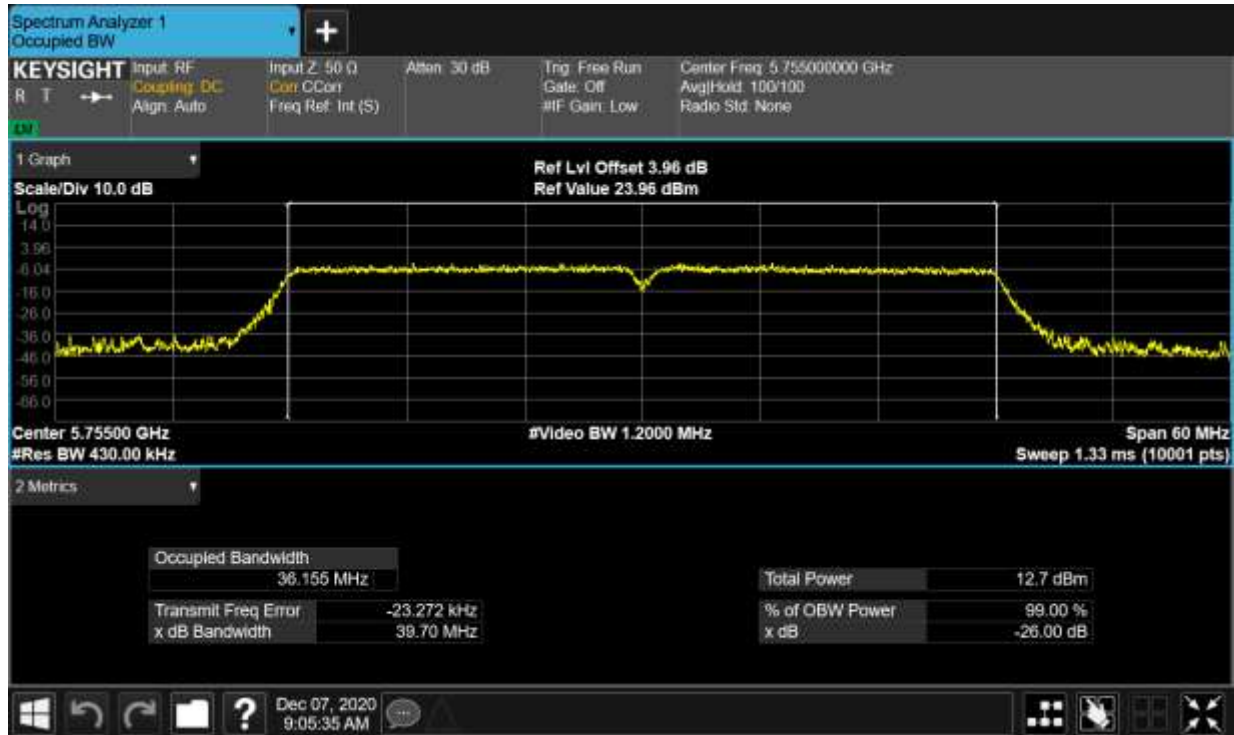
OBW NVNT n20 5785MHz Ant1



OBW NVNT n20 5825MHz Ant1



OBW NVNT n40 5755MHz Ant1



OBW NVNT n40 5795MHz Ant1



Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-7.314	30	Pass
NVNT	a	5785	Ant1	-8.484	30	Pass
NVNT	a	5825	Ant1	-7.987	30	Pass
NVNT	ac20	5745	Ant1	-7.924	30	Pass

NVNT	ac20	5785	Ant1	-8.18	30	Pass
NVNT	ac20	5825	Ant1	-8.726	30	Pass
NVNT	ac40	5755	Ant1	-11.211	30	Pass
NVNT	ac40	5795	Ant1	-10.692	30	Pass
NVNT	n20	5745	Ant1	-7.902	30	Pass
NVNT	n20	5785	Ant1	-7.684	30	Pass
NVNT	n20	5825	Ant1	-8.686	30	Pass
NVNT	n40	5755	Ant1	-10.288	30	Pass
NVNT	n40	5795	Ant1	-10.435	30	Pass

PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1



PSD NVNT a 5825MHz Ant1



PSD NVNT ac20 5745MHz Ant1



PSD NVNT ac20 5785MHz Ant1



PSD NVNT ac20 5825MHz Ant1



PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1



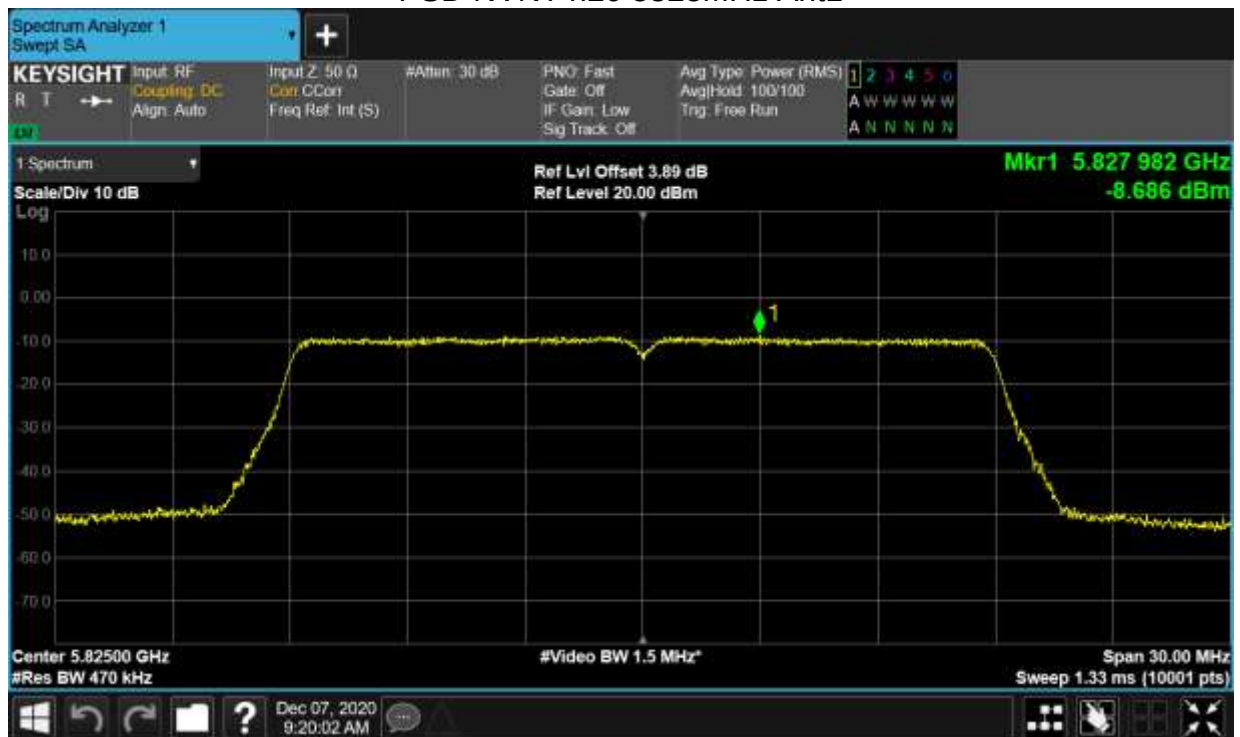
PSD NVNT n20 5745MHz Ant1



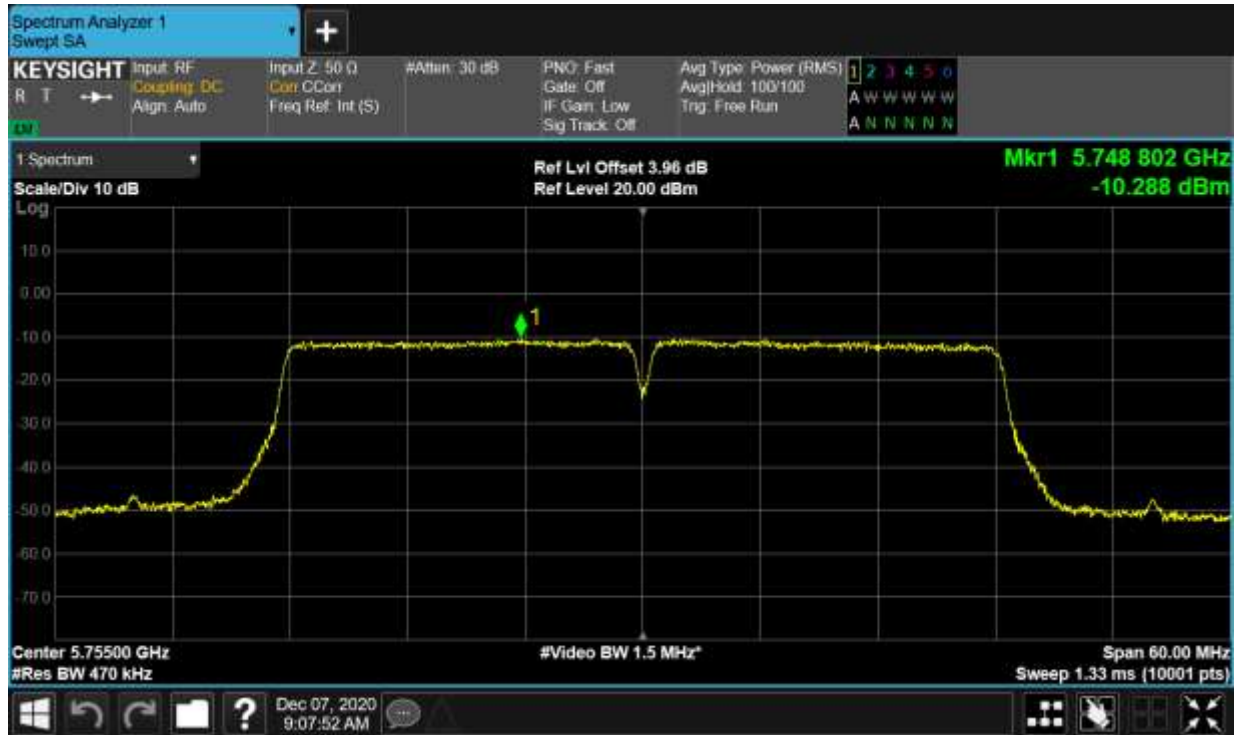
PSD NVNT n20 5785MHz Ant1



PSD NVNT n20 5825MHz Ant1



PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1



-----End of report-----