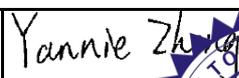


# TEST REPORT

<b>FCC ID</b> ..... :	2BGAJ-ED007BICW	
<b>Test Report No</b> ..... :	TCT240429E006	
<b>Date of issue</b> ..... :	May 20, 2024	
<b>Testing laboratory</b> .....	SHENZHEN TONGCE TESTING LAB	
<b>Testing location/ address:</b>	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
<b>Applicant's name</b> ..... :	SHENZHEN EEGUARD TECHNOLOGY CO., LIMITED	
<b>Address</b> ..... :	201, Building A, Jingang Technology Industrial Park, Qiaotou Community, Fuhai Street, Baoan District, Shenzhen, China	
<b>Manufacturer's name</b> ... :	SHENZHEN EEGUARD TECHNOLOGY CO., LIMITED	
<b>Address</b> ..... :	201, Building A, Jingang Technology Industrial Park, Qiaotou Community, Fuhai Street, Baoan District, Shenzhen, China	
<b>Standard(s)</b> .....	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	
<b>Product Name</b> ..... :	VIDEO DOOR PHONE	
<b>Trade Mark</b> .....	N/A	
<b>Model/Type reference</b> ..... :	Refer to model(s) list of page 3	
<b>Rating(s)</b> ..... :	POE DC 15-48V AC 12-36V	
<b>Date of receipt of test item</b> .....	Apr. 29, 2024	
<b>Date (s) of performance of test</b> ..... :	Apr. 29, 2024 ~ May 20, 2024	
<b>Tested by (+signature)</b> ... :	Yannie ZHONG	
<b>Check by (+signature)</b> .... :	Beryl ZHAO	
<b>Approved by (+signature)</b> :	Tomsin	



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

**Appendix B: Photographs of Test Setup**

**Appendix C: Photographs of EUT**

## 1. General Product Information

### 1.1. EUT description

Product Name.....:	VIDEO DOOR PHONE
Model/Type reference.....:	ED007BICW
Sample Number.....:	TCT240429E005-0101
Operation Frequency .....	Band 3: 5745 MHz ~ 5825 MHz
Channel Bandwidth.....:	802.11a: 20MHz 802.11n: 20MHz, 40MHz
Modulation Technology .....	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type.....:	256QAM, 64QAM, 16QAM, BPSK, QPSK
Antenna Type.....:	FPC Antenna
Antenna Gain.....:	Band 3: 2.29dBi
Rating(s).....:	POE DC 15-48V AC 12-36V

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
1	ED007BICW	<input checked="" type="checkbox"/>
Other models	ED007B, ED007BW, ED007BID, ED007BIC, ED007BIDW, ER012ATW, ER010ATW, ER009ATW, ER015ATW, ER012BTW, ER010BTW, ER009BTW, ER015BTW, ER015HBTW, ER012HBTW, ER010HBTW, ER009HBTW, ER015AT, ER015BT, ER012AT, ER012BT, ER010AT, ER010BT, ER009AT, ER009BT	<input type="checkbox"/>

Note: ED007BICW is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of ED007BICW can represent the remaining models.

### 1.3. Test Frequency

#### 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:*

## 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.

### 3. General Information

#### 3.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Software:	
Software Information:	Demo
Power Level:	0
Test Mode:	
Engineer mode:	Keep the EUT in continuous transmitting by select channel and modulations with max. duty cycle.
<p>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 &amp; 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.</p>	

<p>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:</p>	
<p><b>Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.</b></p>	
Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	6.5 Mbps
802.11n(HT40)	13.5 Mbps

### 3.2. Description of Support Units

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

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	R122-1500800ID	/	/	Rongweixin

**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.

## 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-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

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

### 4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 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 expanded 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	$\pm 3.10$ dB
2	RF power, conducted	$\pm 0.12$ dB
3	Spurious emissions, conducted	$\pm 0.11$ dB
4	All emissions, radiated(<1 GHz)	$\pm 4.56$ dB
5	All emissions, radiated(1 GHz - 18 GHz)	$\pm 4.22$ dB
6	All emissions, radiated(18 GHz- 40 GHz)	$\pm 4.36$ dB

## 5. Test Results and Measurement Data

### 5.1. Antenna requirement

**Standard requirement:**

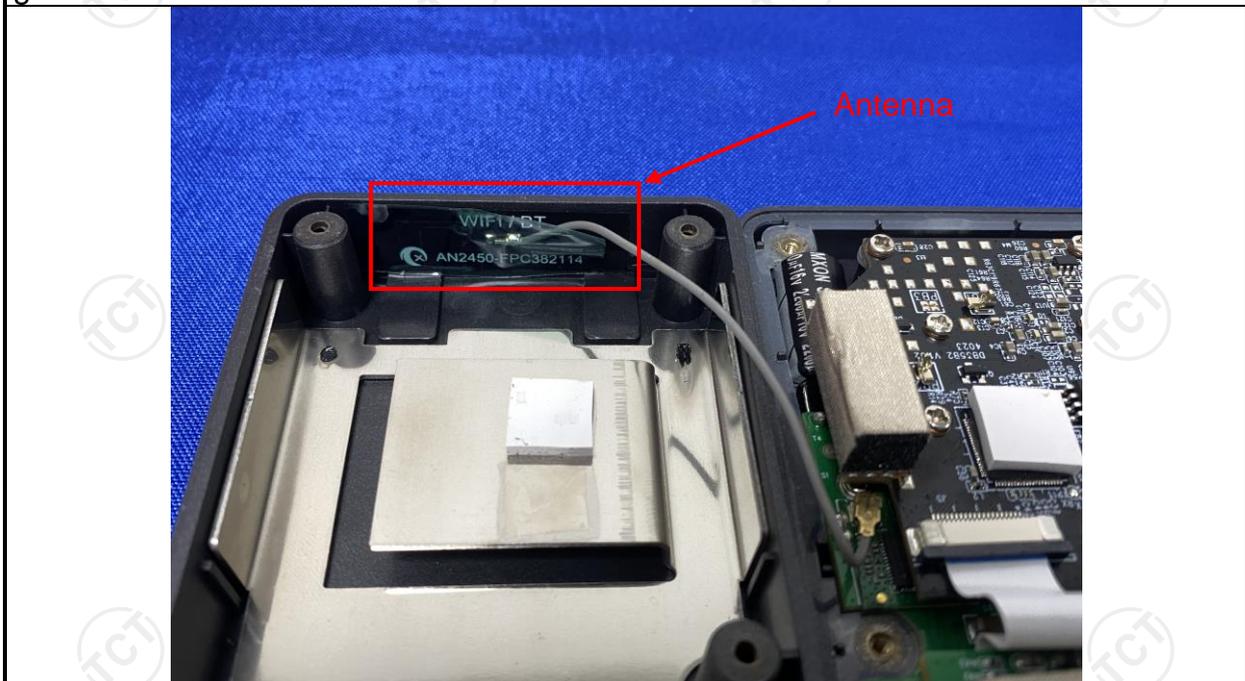
FCC Part15 C Section 15.203 /247(c)

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 FPC antenna which permanently attached, and the best case gain of the antenna is 2.29dBi.



## 5.2. Conducted Emission

### 5.2.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.207														
<b>Test Method:</b>	ANSI C63.10:2013														
<b>Frequency Range:</b>	150 kHz to 30 MHz														
<b>Receiver setup:</b>	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
<b>Limits:</b>	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
<b>Test Setup:</b>	<p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
<b>Test Mode:</b>	Transmitting Mode														
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. 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>2. 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>3. 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: 2013 on conducted measurement.</li> </ol>														
<b>Test Result:</b>	PASS														

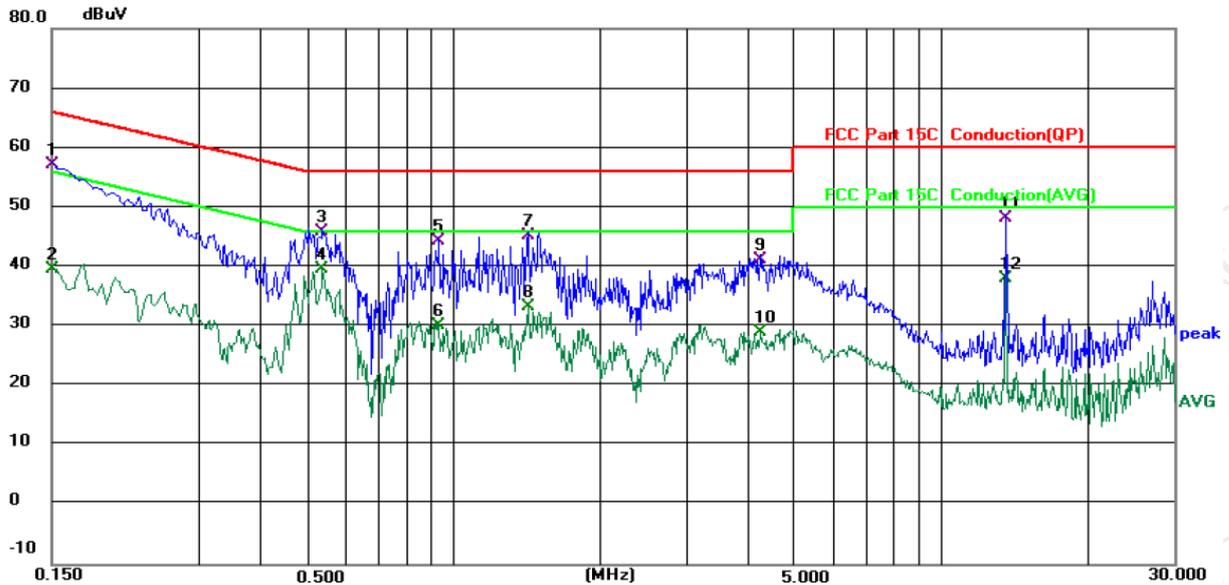
**5.2.2. Test Instruments**

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI3	100898	Jun. 29, 2024
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025
Line-5	TCT	CE-05	/	Jul. 03, 2024
EMI Test Software	Shurple Technology	EZ-EMC	/	/

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)



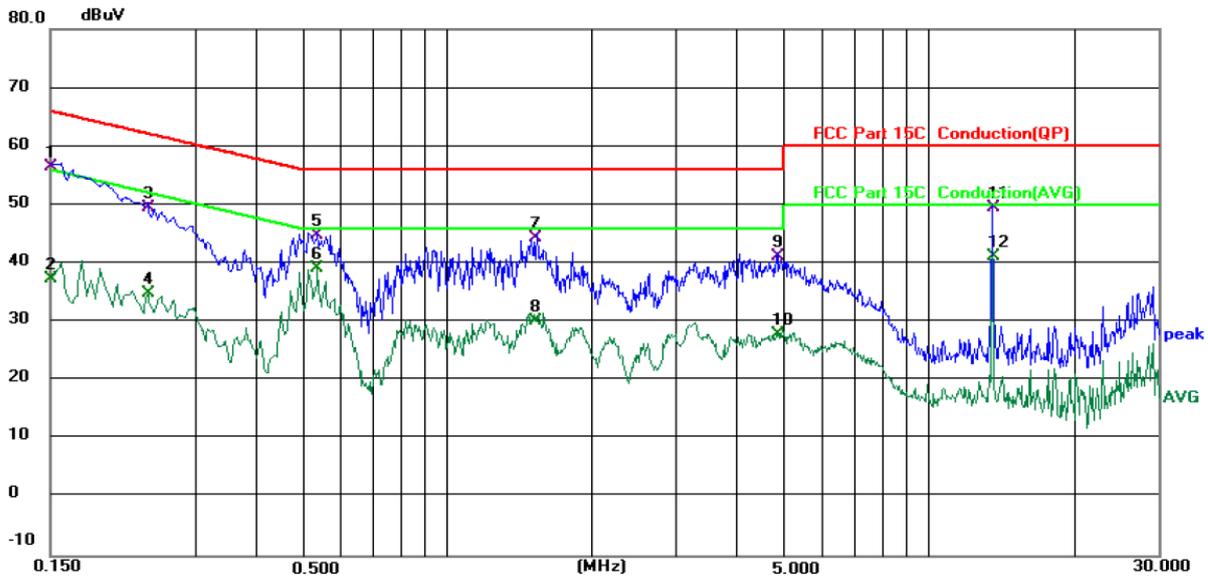
Site 844 Shielding Room Phase: L1 Temperature: 22.8 (°C) Humidity: 49 %  
Limit: FCC Part 15C Conduction(QP) Power: DC 15 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	47.19	10.02	57.21	66.00	-8.79	QP	
2		0.1500	29.61	10.02	39.63	56.00	-16.37	AVG	
3		0.5380	36.57	9.30	45.87	56.00	-10.13	QP	
4	*	0.5380	30.25	9.30	39.55	46.00	-6.45	AVG	
5		0.9340	35.43	8.96	44.39	56.00	-11.61	QP	
6		0.9340	21.20	8.96	30.16	46.00	-15.84	AVG	
7		1.4219	35.30	9.96	45.26	56.00	-10.74	QP	
8		1.4219	23.42	9.96	33.38	46.00	-12.62	AVG	
9		4.2580	30.94	10.33	41.27	56.00	-14.73	QP	
10		4.2580	18.76	10.33	29.09	46.00	-16.91	AVG	
11		13.5579	37.62	10.63	48.25	60.00	-11.75	QP	
12		13.5579	27.50	10.63	38.13	50.00	-11.87	AVG	

Note:

- Freq. = Emission frequency in MHz
- Reading level (dBuV) = Receiver reading
- Corr. Factor (dB) = LISN factor + Cable loss
- Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)
- Limit (dBuV) = Limit stated in standard
- Margin (dB) = Measurement (dBuV) – Limits (dBuV)
- Q.P. =Quasi-Peak
- AVG =average
- \* 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)**



Site 844 Shielding Room

Phase: **N**

Temperature: 22.8 (°C)

Humidity: 49 %

Limit: FCC Part 15C Conduction(QP)

Power: DC 15 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	46.42	10.00	56.42	66.00	-9.58	QP	
2		0.1500	27.28	10.00	37.28	56.00	-18.72	AVG	
3		0.2379	39.71	9.82	49.53	62.17	-12.64	QP	
4		0.2379	25.04	9.82	34.86	52.17	-17.31	AVG	
5		0.5380	35.51	9.28	44.79	56.00	-11.21	QP	
6	*	0.5380	29.80	9.28	39.08	46.00	-6.92	AVG	
7		1.5339	34.48	9.92	44.40	56.00	-11.60	QP	
8		1.5339	20.16	9.92	30.08	46.00	-15.92	AVG	
9		4.8940	30.86	10.31	41.17	56.00	-14.83	QP	
10		4.8940	17.68	10.31	27.99	46.00	-18.01	AVG	
11		13.5619	38.91	10.61	49.52	60.00	-10.48	QP	
12		13.5619	30.63	10.61	41.24	50.00	-8.76	AVG	

**Note:**

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

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

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. =Quasi-Peak

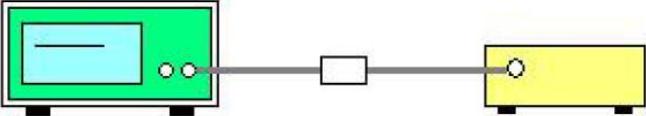
AVG =average

\* 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) and the worst case Mode (Lowest channel and 802.11a) was submitted only.

### 5.3. Maximum Conducted Output Power

#### 5.3.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 E Section 15.407(a)& Part 2 J Section 2.1046										
<b>Test Method:</b>	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E										
<b>Limit:</b>	<table border="1"> <thead> <tr> <th>Frequency Band (MHz)</th> <th>Limit</th> </tr> </thead> <tbody> <tr> <td>5180 - 5240</td> <td>24dBm(250mW) for client device</td> </tr> <tr> <td>5260 - 5320</td> <td>24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz</td> </tr> <tr> <td>5470 - 5725</td> <td>24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz</td> </tr> <tr> <td>5745 - 5825</td> <td>30dBm(1W)</td> </tr> </tbody> </table>	Frequency Band (MHz)	Limit	5180 - 5240	24dBm(250mW) for client device	5260 - 5320	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz	5470 - 5725	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz	5745 - 5825	30dBm(1W)
Frequency Band (MHz)	Limit										
5180 - 5240	24dBm(250mW) for client device										
5260 - 5320	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz										
5470 - 5725	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz										
5745 - 5825	30dBm(1W)										
<b>Test Setup:</b>	 <p style="text-align: center;"> <span style="margin-right: 100px;"><b>Power meter</b></span> <span><b>EUT</b></span> </p>										
<b>Test Mode:</b>	Transmitting mode with modulation										
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a</li> <li>2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>5. Measure the conducted output power and record the results in the test report.</li> </ol>										
<b>Test Result:</b>	PASS										
<b>Remark:</b>	<p>Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0</p> <p>Conducted output power= measurement power</p>										

**5.3.2. Test Instruments**

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Power Meter	Agilent	E4418B	MY45100357	Jun. 27, 2024
Power Sensor	Agilent	8481A	MY41091497	Jun. 27, 2024
Combiner Box	Ascentest	AT890-RFB	/	/

## 5.4. 6dB Emission Bandwidth

### 5.4.1. Test Specification

<b>Test Requirement:</b>	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
<b>Test Method:</b>	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
<b>Limit:</b>	>500kHz
<b>Test Setup:</b>	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. 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>4. Measure and record the results in the test report.</li> </ol>
<b>Test Result:</b>	PASS

### 5.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	/	/

## 5.5. 26dB Bandwidth and 99% Occupied Bandwidth

### 5.5.1. Test Specification

<b>Test Requirement:</b>	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
<b>Test Method:</b>	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
<b>Limit:</b>	No restriction limits
<b>Test Setup:</b>	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. 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>4. Measure and record the results in the test report.</li> </ol>
<b>Test Result:</b>	PASS

### 5.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB	/	/



## 5.7. Band edge

### 5.7.1. Test Specification

<b>Test Requirement:</b>	FCC CFR47 Part 15E Section 15.407																				
<b>Test Method:</b>	ANSI C63.10 2013																				
<b>Limit:</b>	In un-restricted band: For Band 1&2A&2C: -27dBm/MHz For Band 3:																				
	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>Limit (dBm/MHz)</th> <th>Frequency (MHz)</th> <th>Limit (dBm/MHz)</th> </tr> </thead> <tbody> <tr> <td>&lt; 5650</td> <td>-27</td> <td>5850~5855</td> <td>27~15.6</td> </tr> <tr> <td>5650~5700</td> <td>-27~10</td> <td>5855~5875</td> <td>15.6~10</td> </tr> <tr> <td>5700~5720</td> <td>10~15.6</td> <td>5875~5925</td> <td>10~-27</td> </tr> <tr> <td>5720~5725</td> <td>15.6~27</td> <td>&gt; 5925</td> <td>-27</td> </tr> </tbody> </table>	Frequency (MHz)	Limit (dBm/MHz)	Frequency (MHz)	Limit (dBm/MHz)	< 5650	-27	5850~5855	27~15.6	5650~5700	-27~10	5855~5875	15.6~10	5700~5720	10~15.6	5875~5925	10~-27	5720~5725	15.6~27	> 5925	-27
	Frequency (MHz)	Limit (dBm/MHz)	Frequency (MHz)	Limit (dBm/MHz)																	
	< 5650	-27	5850~5855	27~15.6																	
	5650~5700	-27~10	5855~5875	15.6~10																	
5700~5720	10~15.6	5875~5925	10~-27																		
5720~5725	15.6~27	> 5925	-27																		
$E[dB\mu V/m] = EIRP[dBm] + 95.2 @3m$																					
In restricted band:																					
<table border="1"> <thead> <tr> <th>Detector</th> <th>Limit@3m</th> </tr> </thead> <tbody> <tr> <td>Peak</td> <td>74dB<math>\mu</math>V/m</td> </tr> <tr> <td>AVG</td> <td>54dB<math>\mu</math>V/m</td> </tr> </tbody> </table>	Detector	Limit@3m	Peak	74dB $\mu$ V/m	AVG	54dB $\mu$ V/m															
Detector	Limit@3m																				
Peak	74dB $\mu$ V/m																				
AVG	54dB $\mu$ V/m																				
<b>Test Setup:</b>	<p>The diagram illustrates the test setup within an anechoic chamber. An Equipment Under Test (EUT) is placed on a turntable at a height of 1.5 meters. The turntable is positioned 3 meters away from a horn antenna mounted on an antenna tower. A ground reference plane is shown at the base of the chamber. The test receiver system, including a test receiver, pre-amplifier, and controller, is connected to the antenna tower.</p>																				
<b>Test Mode:</b>	Transmitting mode with modulation																				
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> </ol>																				

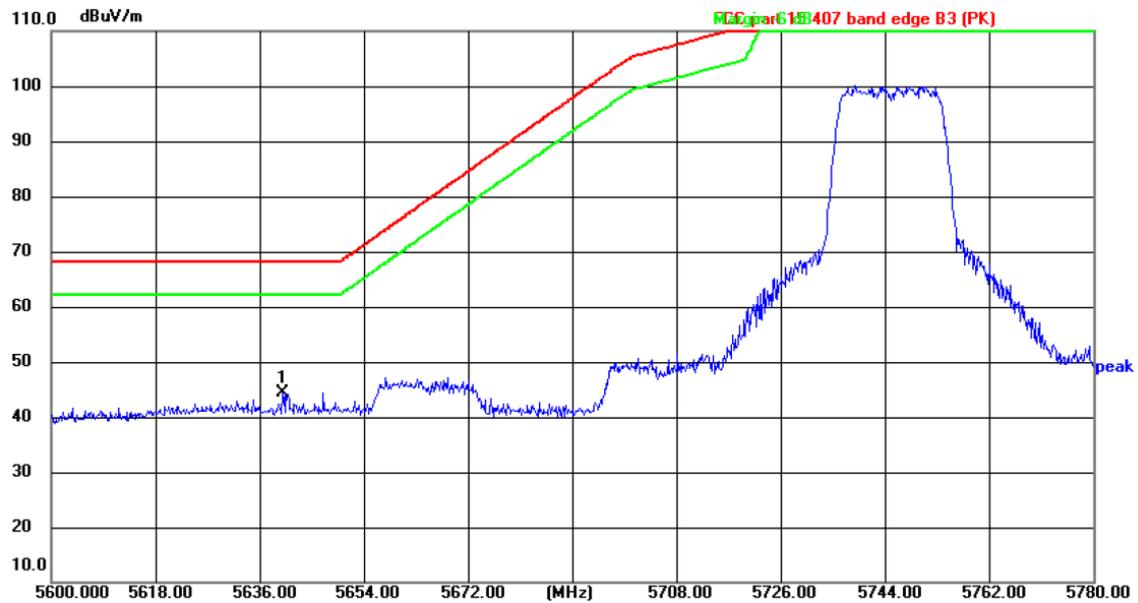
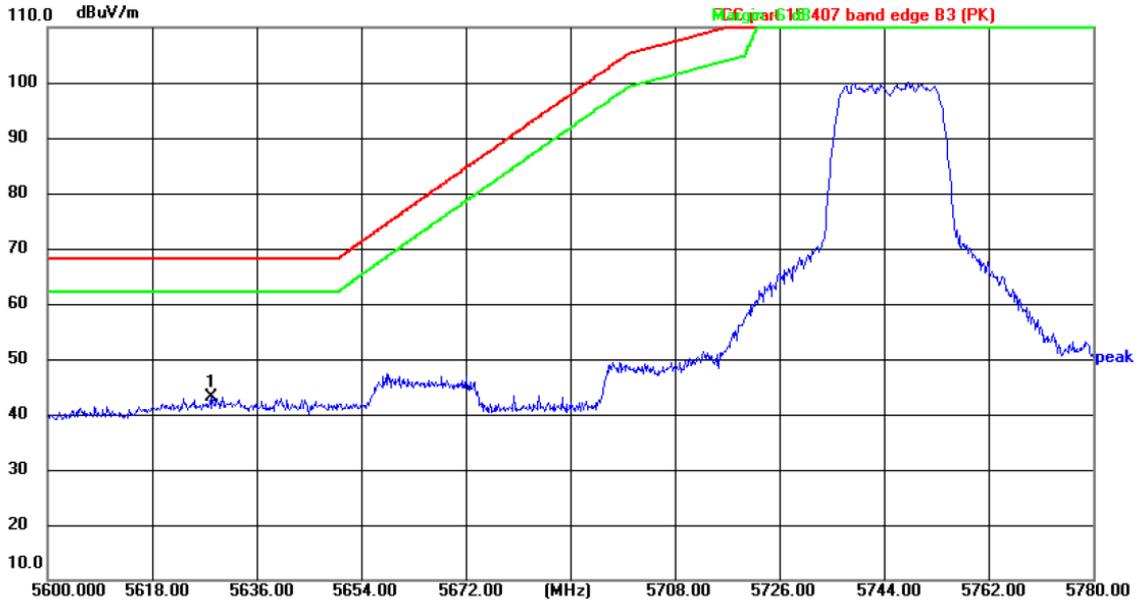
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified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

**5.7.2. Test Instruments**

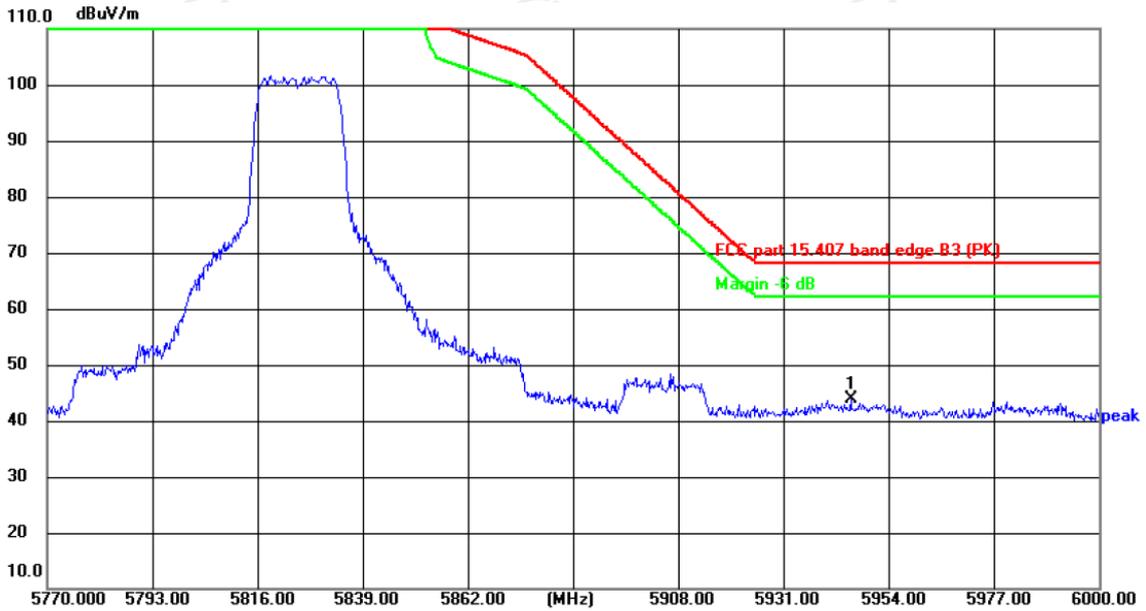
Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jun. 29, 2024
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 29, 2024
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Jan. 31, 2025
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Jan. 31, 2025
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jul. 02, 2024
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 01, 2024
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jul. 01, 2024
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025
Coaxial cable	SKET	RC-18G-N-M	/	Jan. 31, 2025
Coaxial cable	SKET	RC_40G-K-M	/	Jan. 31, 2025
Antenna Mast	Keleto	CC-A-4M	/	/
EMI Test Software	Shurple Technology	EZ-EMC	/	/

## 5.7.3. Test Data

N20-5745



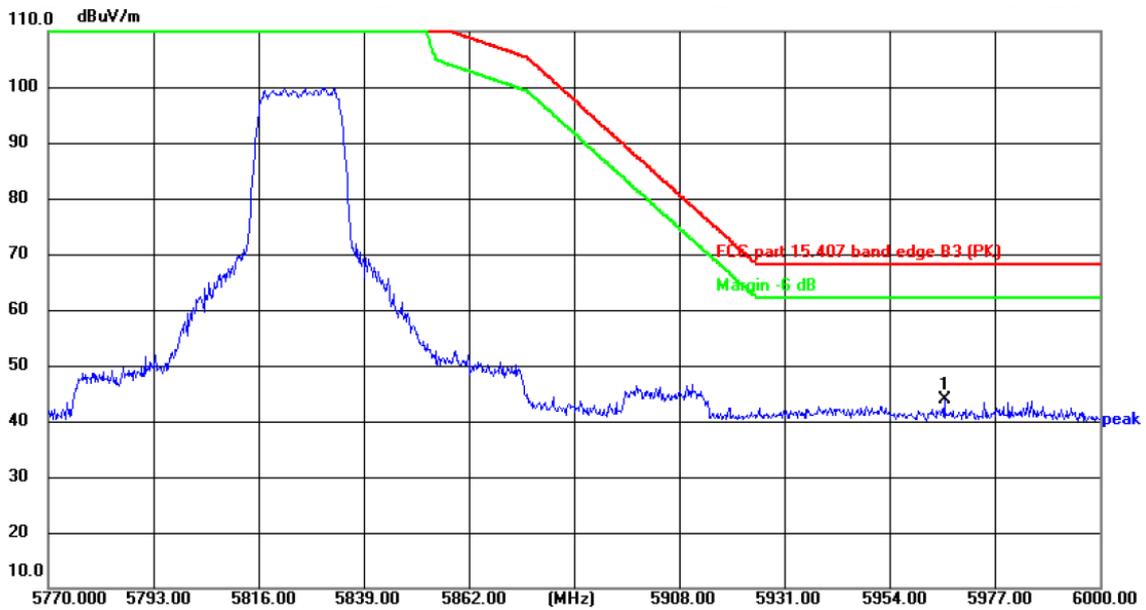
## N20-5825



Site: 3m Anechoic Chamber      Polarization: **Horizontal**      Temperature: 23.3(°C)      Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)      Power: DC 15 V(Adapter Input 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 *	5945.927	50.61	-6.81	43.80	68.20	-24.40	peak	P	

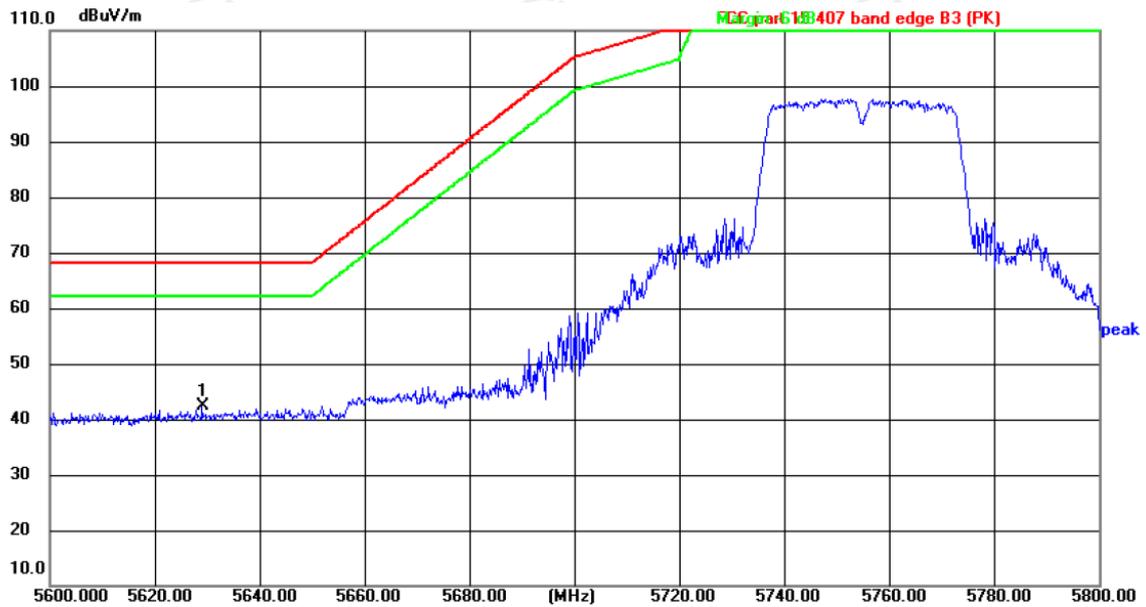


Site: 3m Anechoic Chamber      Polarization: **Vertical**      Temperature: 23.3(°C)      Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)      Power: DC 15 V(Adapter Input 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 *	5966.052	50.46	-6.70	43.76	68.20	-24.44	peak	P	

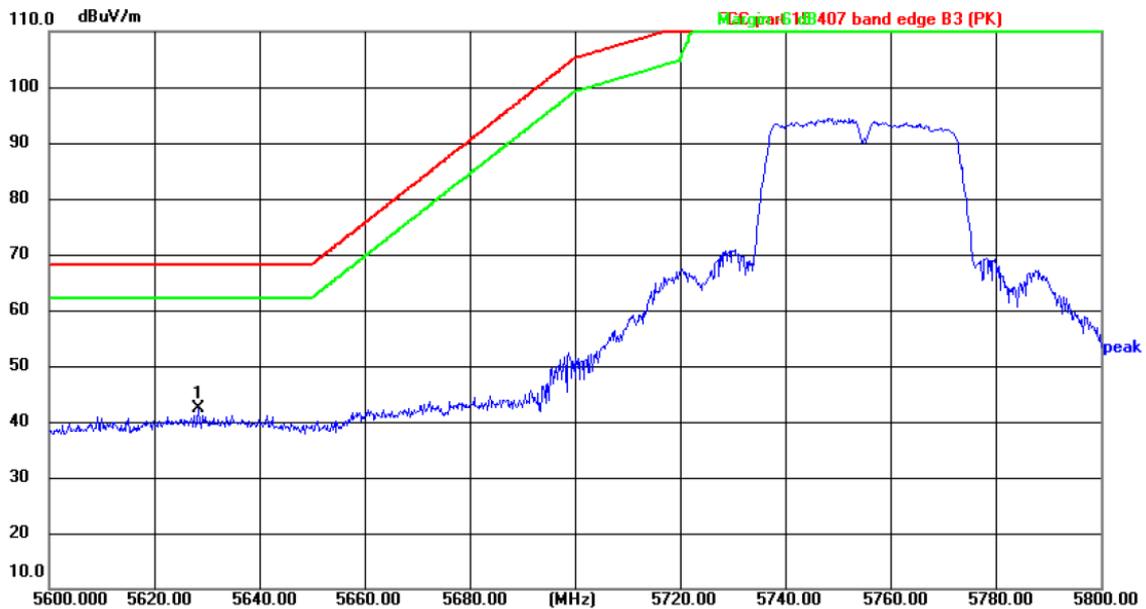
## N40-5755



Site: 3m Anechoic Chamber      Polarization: **Horizontal**      Temperature: 23.3(°C)      Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)      Power: DC 15 V(Adapter Input 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 *	5629.167	50.03	-7.57	42.46	68.20	-25.74	peak	P	

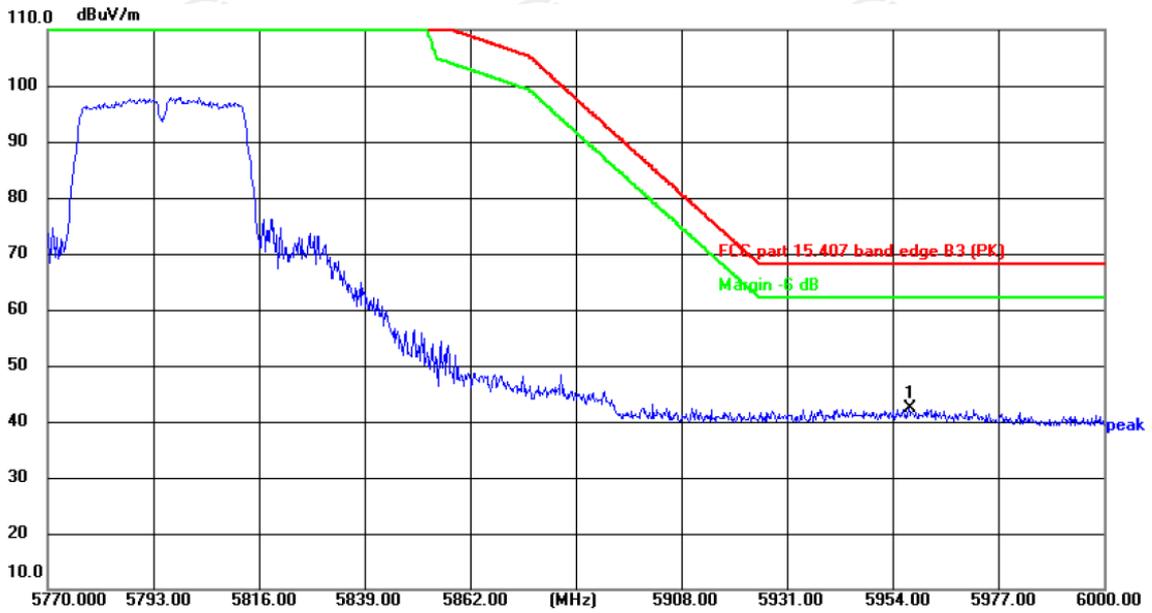


Site: 3m Anechoic Chamber      Polarization: **Vertical**      Temperature: 23.3(°C)      Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)      Power: DC 15 V(Adapter Input AC 120 V/60 Hz)

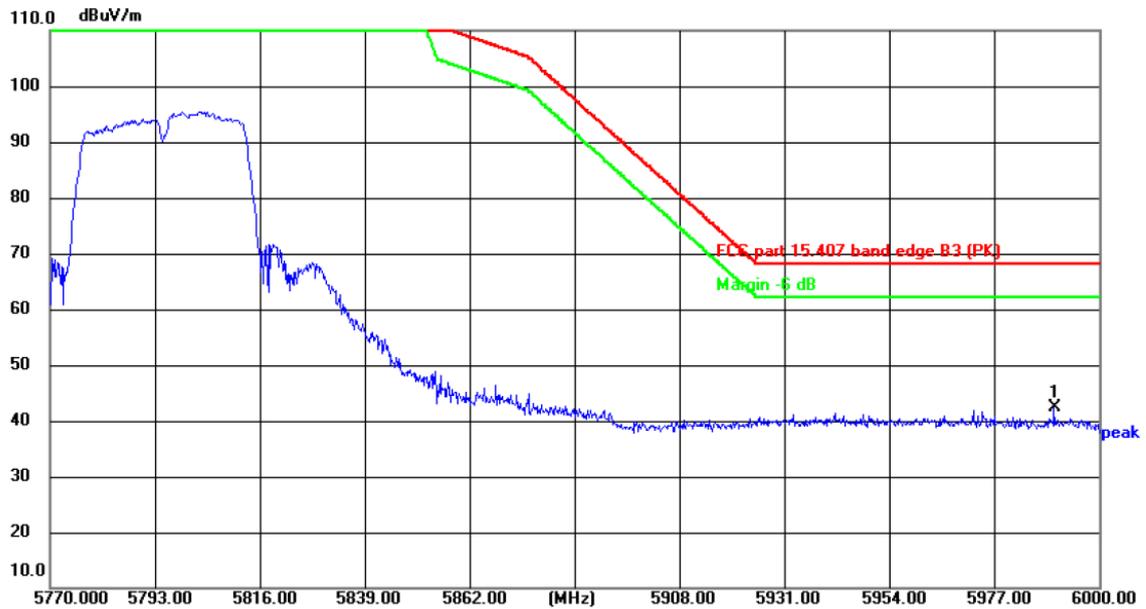
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5628.500	49.90	-7.58	42.32	68.20	-25.88	peak	P	

**N40-5795**



Site: 3m Anechoic Chamber      Polarization: **Horizontal**      Temperature: 23.3(°C)      Humidity: 52 %  
Limit: FCC part 15.407 band edge B3 (PK)      Power:DC 15 V(Adapter Input 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 *	5957.527	49.20	-6.75	42.45	68.20	-25.75	peak	P	



Site: 3m Anechoic Chamber      Polarization: **Vertical**      Temperature: 23.3(°C)      Humidity: 52 %  
Limit: FCC part 15.407 band edge B3 (PK)      Power:DC 15 V(Adapter Input AC 120 V/60 Hz)

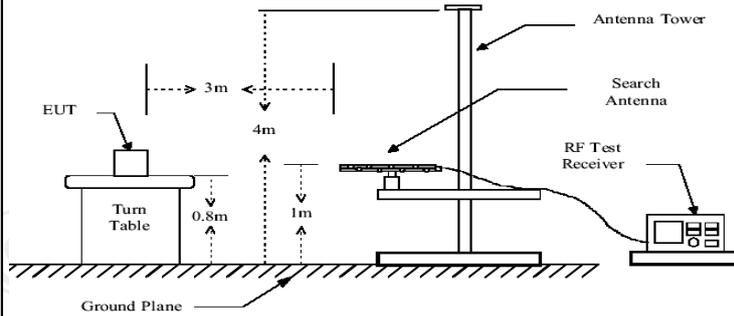
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5990.248	48.91	-6.55	42.36	68.20	-25.84	peak	P	

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

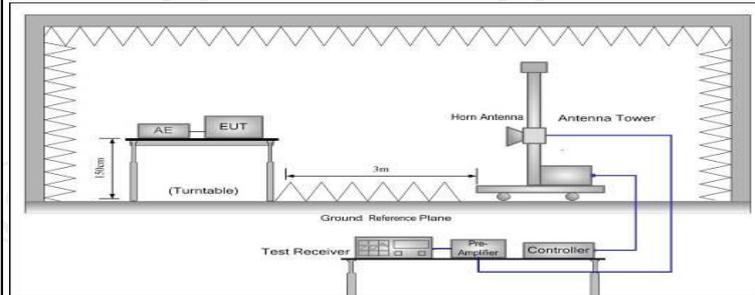
## 5.8. Unwanted Emissions

### 5.8.1. Test Specification

<b>Test Requirement:</b>	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205				
<b>Test Method:</b>	KDB 789033 D02 v02r01				
<b>Frequency Range:</b>	9kHz to 40GHz				
<b>Measurement Distance:</b>	3 m				
<b>Antenna Polarization:</b>	Horizontal & Vertical				
<b>Operation mode:</b>	Transmitting mode with modulation				
<b>Receiver Setup:</b>	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
<b>Limit:</b>	Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table, In restricted bands:				
	Frequency	Detector	Limit@3m		
	Above 1G	Peak	74dB $\mu$ V/m		
		AVG	54dB $\mu$ V/m		
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)		
	0.009-0.490	2400/F(KHz)	300		
	0.490-1.705	24000/F(KHz)	3		
	1.705-30	30	30		
	30-88	100	3		
	88-216	150	3		
	216-960	200	3		
	Above 960	500	3		
	In un-restricted bands: 68.2dB $\mu$ V/m				
<b>Test setup:</b>	For radiated emissions below 30MHz				
	<p>30MHz to 1GHz</p>				



Above 1GHz



**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.

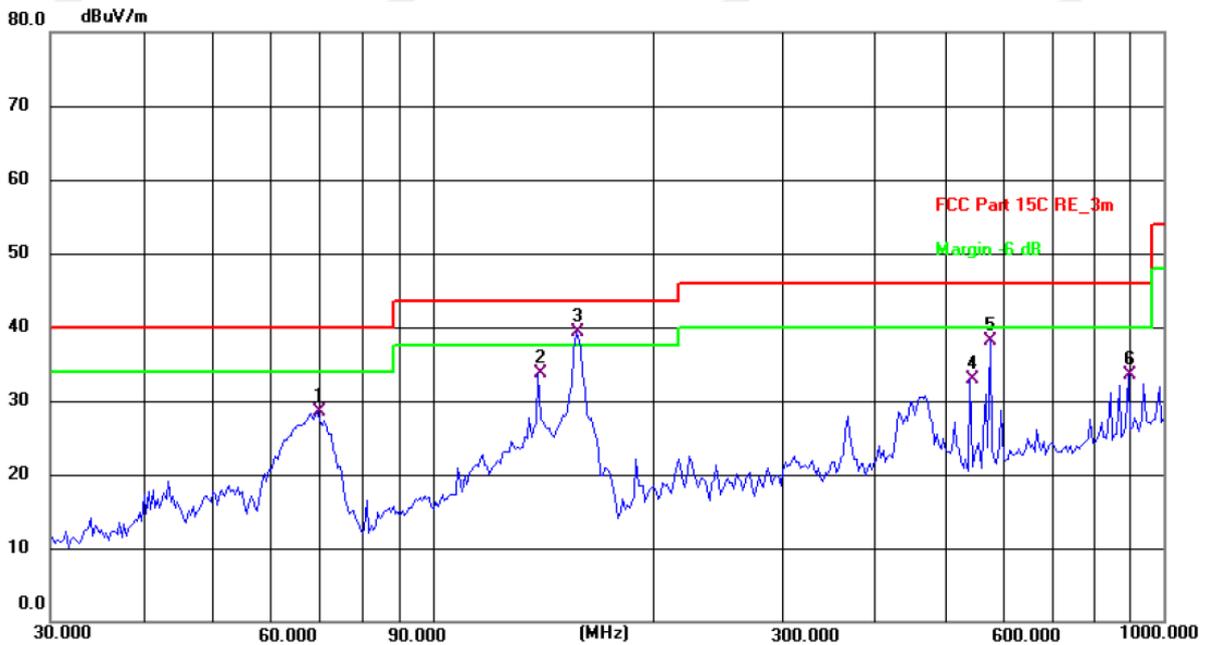
**Test results:**

PASS

5.8.2. Test Data

Please refer to following diagram for individual  
Below 1GHz

Horizontal:



Site: 3m Anechoic Chamber      Polarization: **Horizontal**      Temperature: 24.3(C)      Humidity: 49 %

Limit: FCC Part 15C RE\_3m      Power: DC 15 V(Adapter Input 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	69.6004	42.95	-14.40	28.55	40.00	-11.45	QP	P	
2	139.3611	45.68	-11.99	33.69	43.50	-9.81	QP	P	
3 *	157.0073	50.38	-11.02	39.36	43.50	-4.14	QP	P	
4	543.2742	38.71	-5.87	32.84	46.00	-13.16	QP	P	
5	578.6700	43.14	-5.03	38.11	46.00	-7.89	QP	P	
6	893.8566	33.71	-0.26	33.45	46.00	-12.55	QP	P	

Vertical:



Site: 3m Anechoic Chamber      Polarization: **Vertical**      Temperature: 24.3(C)      Humidity: 49 %

Limit: FCC Part 15C RE\_3m

Power: DC 15 V(Adapter Input 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	43.5057	45.52	-12.54	32.98	40.00	-7.02	QP	P	
2 *	69.6004	52.29	-14.40	37.89	40.00	-2.11	QP	P	
3	129.0145	48.86	-12.49	36.37	43.50	-7.13	QP	P	
4 !	138.3873	50.79	-12.06	38.73	43.50	-4.77	QP	P	
5 !	158.1123	51.70	-11.01	40.69	43.50	-2.81	QP	P	
6	578.6700	39.38	-5.03	34.35	46.00	-11.65	QP	P	

- 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)) and the worst case Mode (Lowest channel and 802.11a) was submitted only.
  3. Measurement (dBuV) = Reading level + Correction Factor, correction Factor= Antenna Factor + Cable loss - Pre-amplifier.

Modulation Type: Band 3									
11a CH149: 5745MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11490	H	36.54	---	8.09	44.63	---	74	54	-9.37
17235	H	37.67	---	9.67	47.34	---	68.2	---	-20.86
---	H	---	---	---	---	---	---	---	---
11490	V	40.07	---	8.09	48.16	---	74	54	-5.84
17235	V	38.29	---	9.67	47.96	---	68.2	---	-20.24
---	V	---	---	---	---	---	---	---	---
11a CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11570	H	39.31	---	8.10	47.41	---	74	54	-6.59
17355	H	37.96	---	9.65	47.61	---	68.2	---	-20.59
---	H	---	---	---	---	---	---	---	---
11570	V	38.42	---	8.10	46.52	---	74	54	-7.48
17355	V	39.25	---	9.65	48.9	---	68.2	---	-19.3
---	V	---	---	---	---	---	---	---	---
11a CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11650	H	37.17	---	8.12	45.29	---	74	54	-8.71
17475	H	36.83	---	9.62	46.45	---	68.2	---	-21.75
---	H	---	---	---	---	---	---	---	---
11650	V	36.78	---	8.12	44.9	---	74	54	-9.1
17475	V	38.23	---	9.62	47.85	---	68.2	---	-20.35
---	V	---	---	---	---	---	---	---	---
11n(HT20) CH149: 5745MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11490	H	38.63	---	8.09	46.72	---	74	54	-7.28
17235	H	37.89	---	9.67	47.56	---	68.2	---	-20.64
---	H	---	---	---	---	---	---	---	---
11490	V	39.18	---	8.09	47.27	---	74	54	-6.73
17235	V	37.34	---	9.67	47.01	---	68.2	---	-21.19
---	V	---	---	---	---	---	---	---	---

11n(HT20) CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11570	H	38.41	---	8.10	46.51	---	74	54	-7.49
17355	H	39.09	---	9.65	48.74	---	68.2	---	-19.46
---	H	---	---	---	---	---	---	---	---
11570	V	38.88	---	8.10	46.98	---	74	54	-7.02
17355	V	39.72	---	9.65	49.37	---	68.2	---	-18.83
---	V	---	---	---	---	---	---	---	---
11n(HT20) CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11650	H	38.75	---	8.12	46.87	---	74	54	-7.13
17475	H	37.34	---	9.62	46.96	---	68.2	---	-21.24
---	H	---	---	---	---	---	---	---	---
11650	V	38.09	---	8.12	46.21	---	74	54	-7.79
17475	V	39.46	---	9.62	49.08	---	68.2	---	-19.12
---	V	---	---	---	---	---	---	---	---
11n(HT40) CH151: 5755MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11510	H	40.11	---	8.09	48.2	---	74	54	-5.8
17265	H	37.27	---	9.67	46.94	---	68.2	---	-21.26
---	H	---	---	---	---	---	---	---	---
11510	V	41.55	---	8.09	49.64	---	74	54	-4.36
17265	V	38.08	---	9.67	47.75	---	68.2	---	-20.45
---	V	---	---	---	---	---	---	---	---
11n(HT40) CH159: 5795MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11590	H	38.07	---	8.10	46.17	---	74	54	-7.83
17385	H	38.78	---	9.65	48.43	---	68.2	---	-19.77
---	H	---	---	---	---	---	---	---	---
11590	V	38.32	---	8.10	46.42	---	74	54	-7.58
17385	V	36.97	---	9.65	46.62	---	68.2	---	-21.58
---	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

<b>Test Requirement:</b>	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
<b>Test Method:</b>	ANSI C63.10: 2013
<b>Limit:</b>	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.
<b>Test Setup:</b>	<pre> graph LR     SA[Spectrum Analyzer] --- EUT[EUT]     subgraph TC [Temperature Chamber]         EUT     end     P[AC/DC Power supply] --- EUT     </pre>
<b>Test Procedure:</b>	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. 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. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
<b>Test Result:</b>	PASS
<b>Remark:</b>	Pre-scan was performed at all models(11a,11n), the worst case (11n) was found and test data was shown in this report.

Test plots as follows:

Test mode:		802.11n(HT20)	Frequency(MHz):	5745
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	15V	5745	0	PASS
35		5745	0	PASS
25		5745	0	PASS
15		5744.98	-20000	PASS
5		5745	0	PASS
0		5745	0	PASS
25		15V	5745	0
	15V	5745	0	PASS
	48V	5744.98	-20000	PASS

Test mode:		802.11n(HT20)	Frequency(MHz):	5785
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	15V	5784.98	-20000	PASS
35		5784.98	-20000	PASS
25		5785	0	PASS
15		5784.98	-20000	PASS
5		5785	0	PASS
0		5785	0	PASS
25		15V	5784.98	-20000
	15V	5785	0	PASS
	48V	5784.98	-20000	PASS

Test mode:		802.11n(HT20)	Frequency(MHz):	5825
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	15V	5824.98	-20000	PASS
35		5824.98	-20000	PASS
25		5825	0	PASS
15		5824.98	-20000	PASS
5		5824.98	-20000	PASS
0		5824.98	-20000	PASS
25		15V	5824.98	-20000
	15V	5824.98	-20000	PASS
	48V	5824.98	-20000	PASS

Test mode:		802.11n(HT40)	Frequency(MHz):	5755
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	15V	5755	0	PASS
35		5755	0	PASS
25		5755	0	PASS
15		5755	0	PASS
5		5755	0	PASS
0		5755	0	PASS
25		15V	5755	0
	15V	5755	0	PASS
	48V	5755	0	PASS

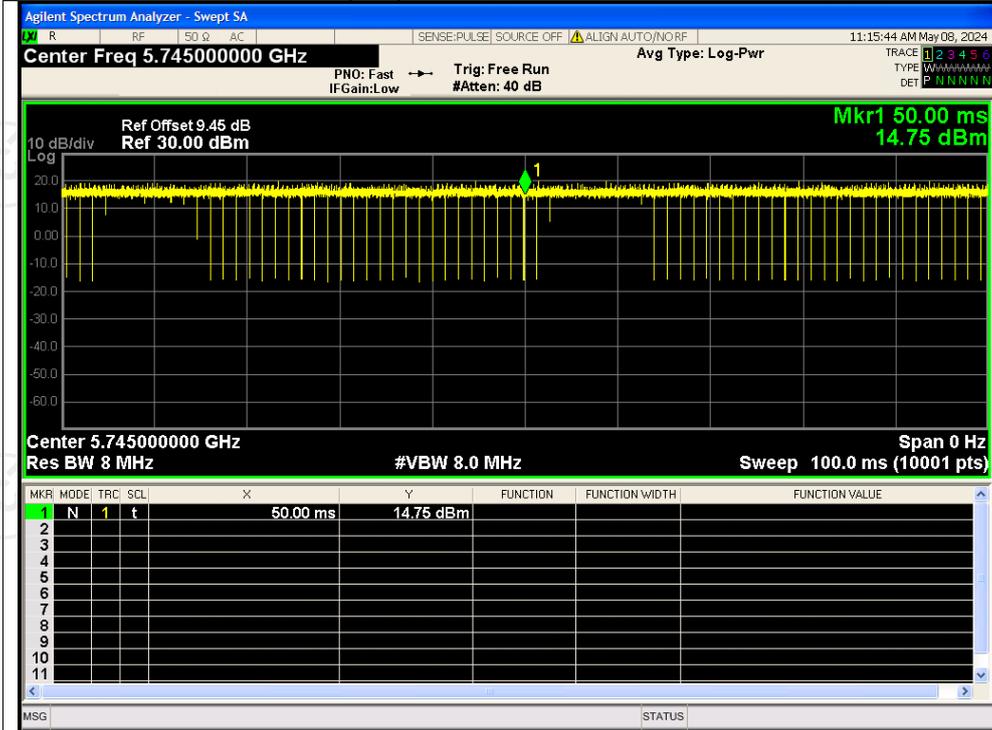
Test mode:		802.11n(HT40)	Frequency(MHz):	5795
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	15V	5795	0	PASS
35		5795	0	PASS
25		5795	0	PASS
15		5795	0	PASS
5		5795	0	PASS
0		5795	0	PASS
25		15V	5795	0
	15V	5795	0	PASS
	48V	5795	0	PASS

### Appendix A: Test Result of Conducted Test

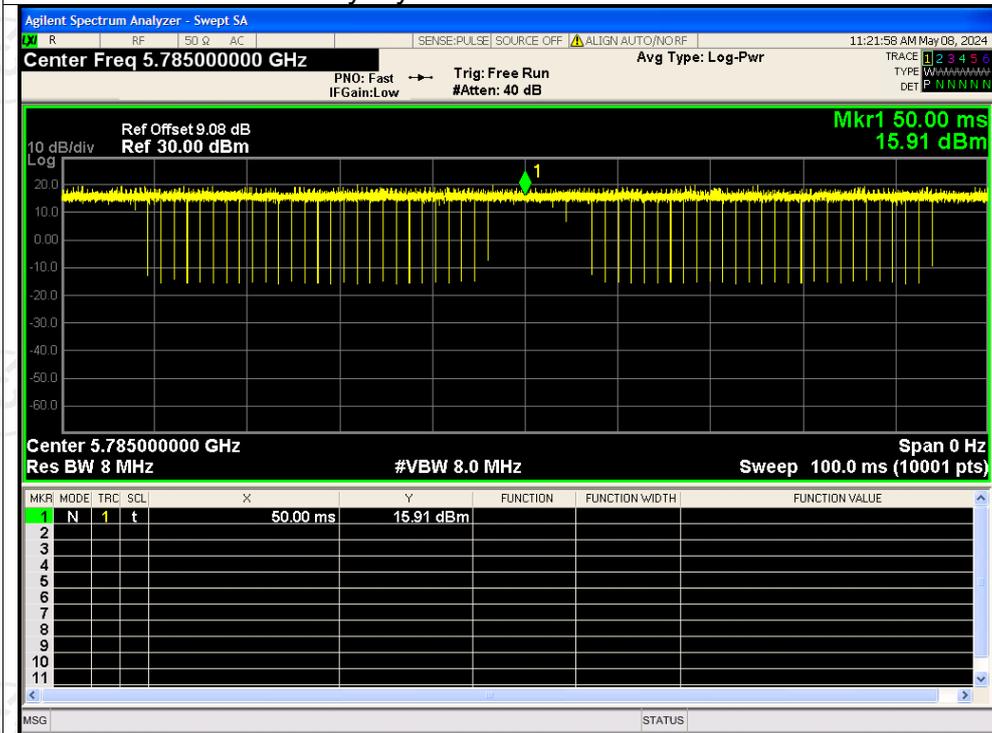
#### Duty Cycle

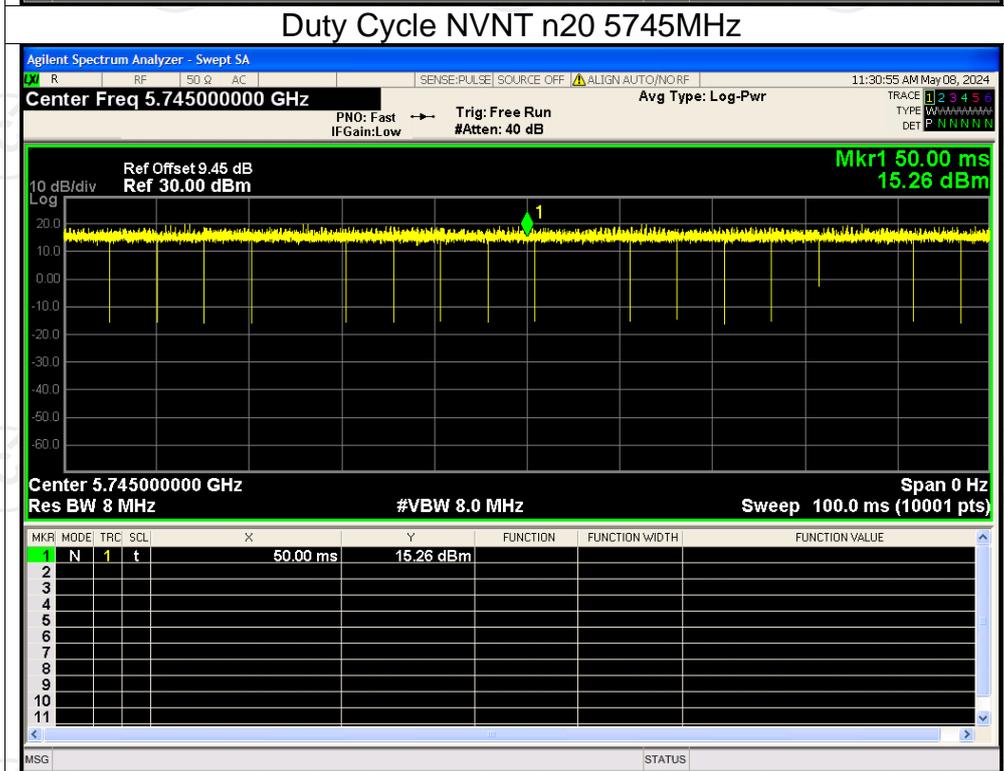
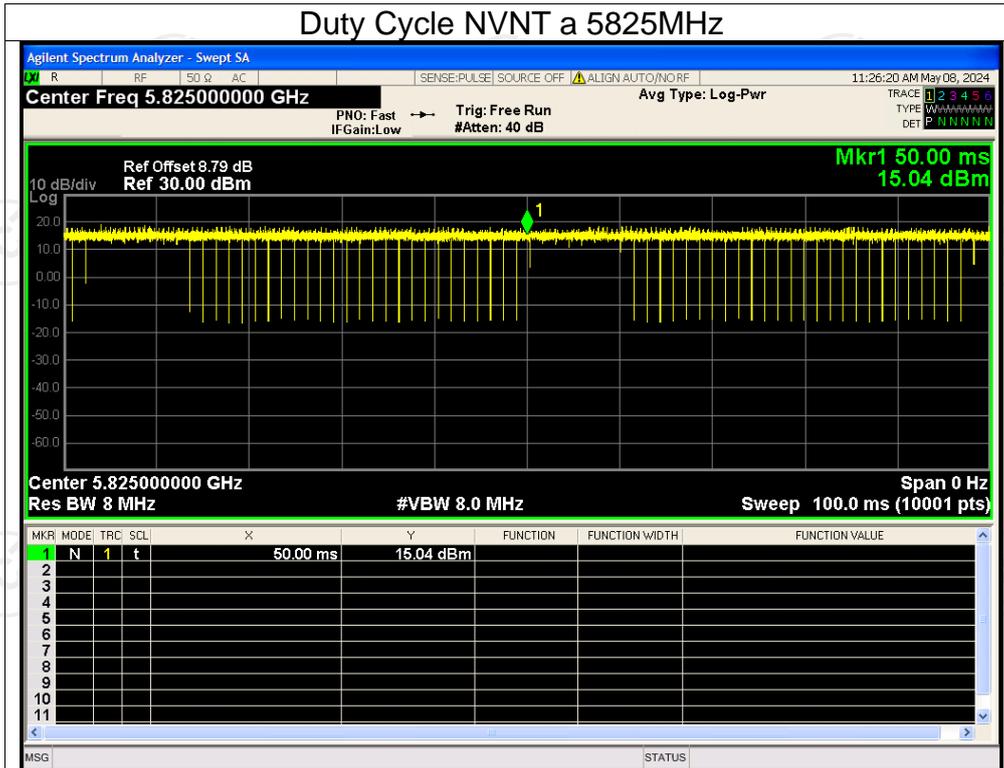
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	100	0
NVNT	a	5785	100	0
NVNT	a	5825	100	0
NVNT	n20	5745	100	0
NVNT	n20	5785	100	0
NVNT	n20	5825	100	0
NVNT	n40	5755	100	0
NVNT	n40	5795	100	0

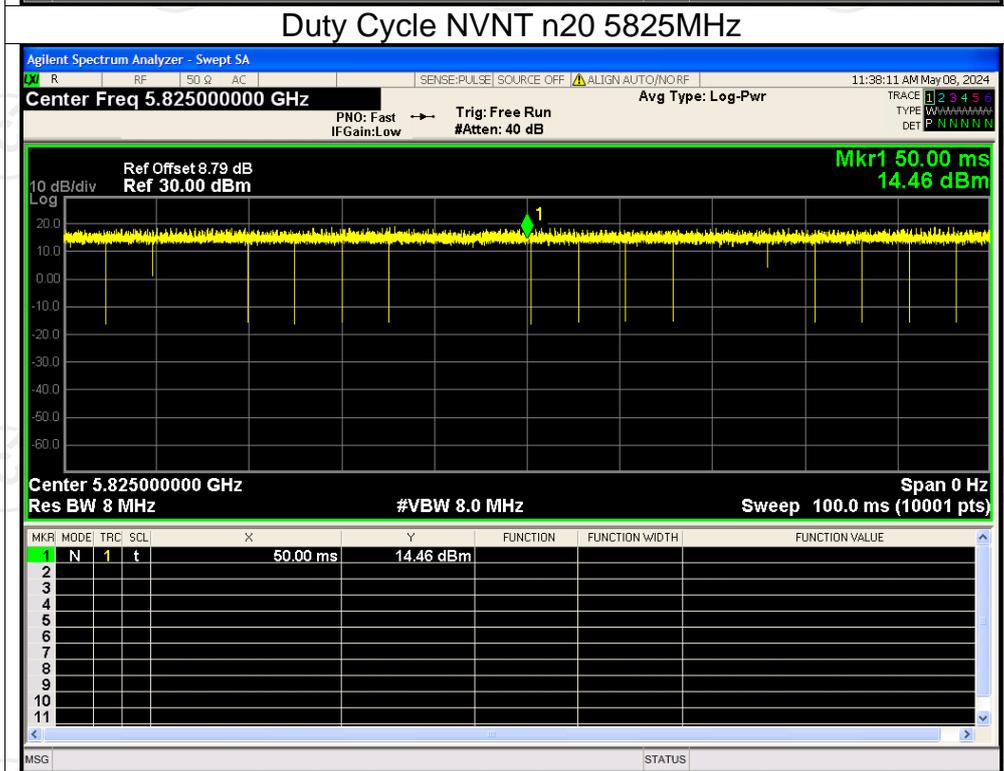
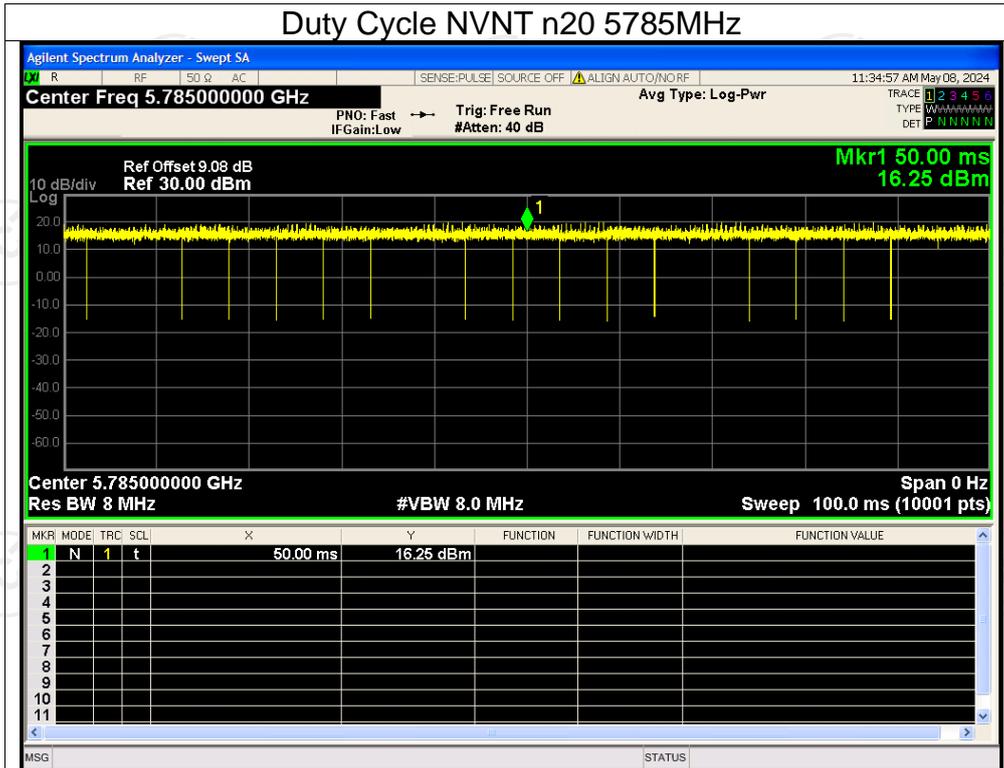
Test Graphs  
Duty Cycle NVNT a 5745MHz

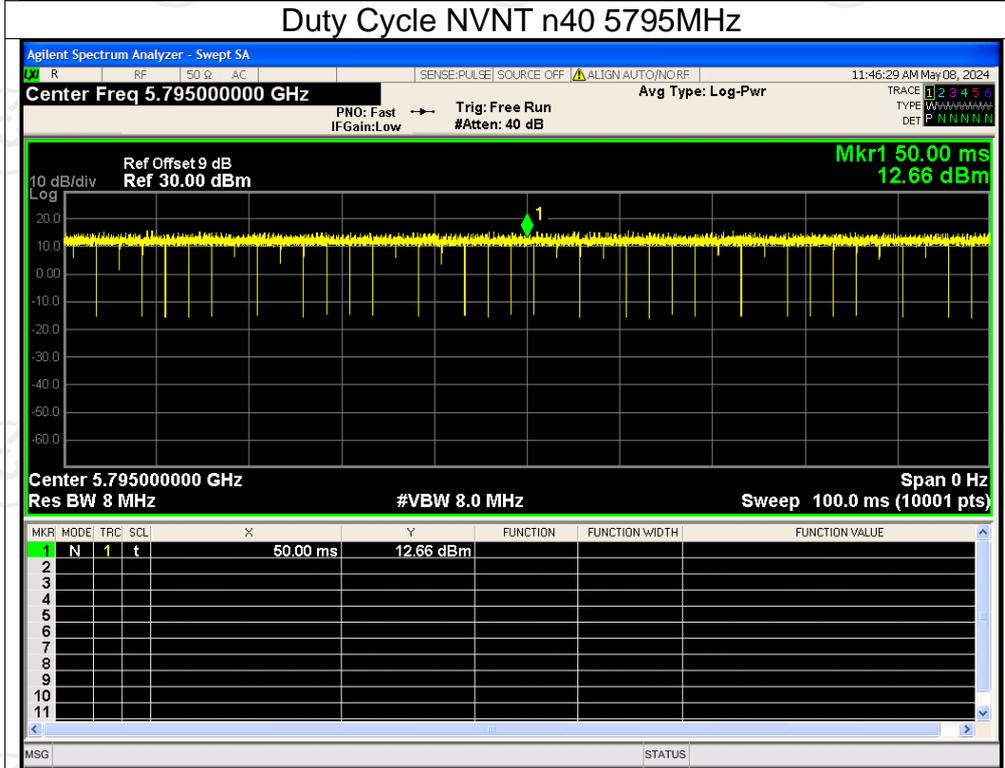
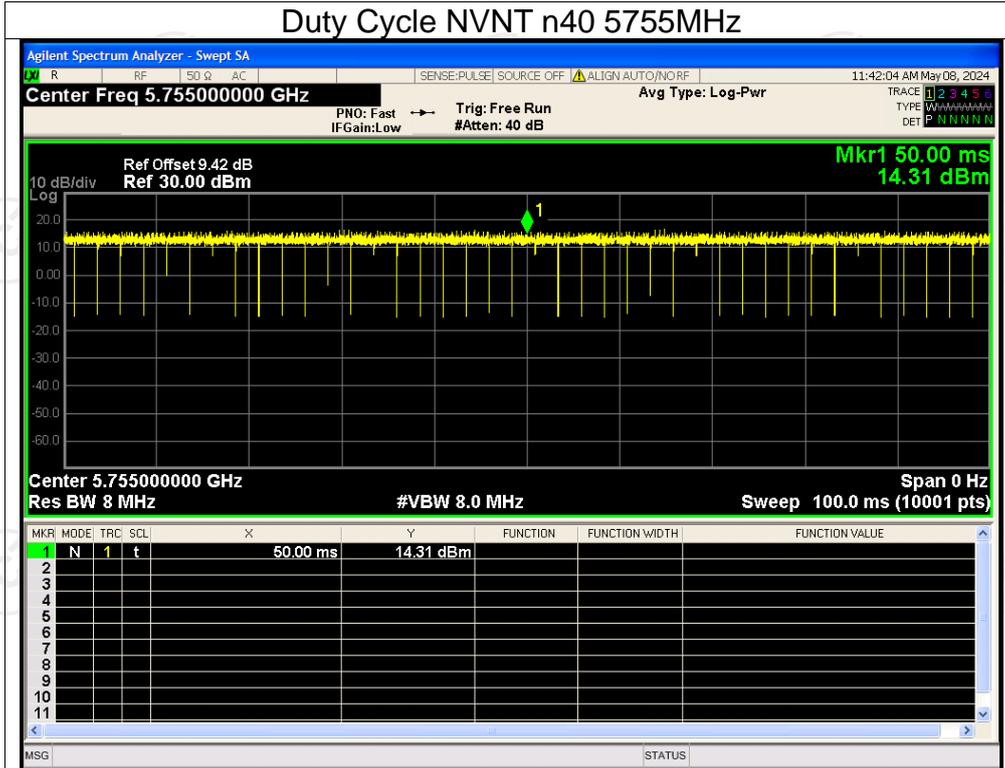


Duty Cycle NVNT a 5785MHz





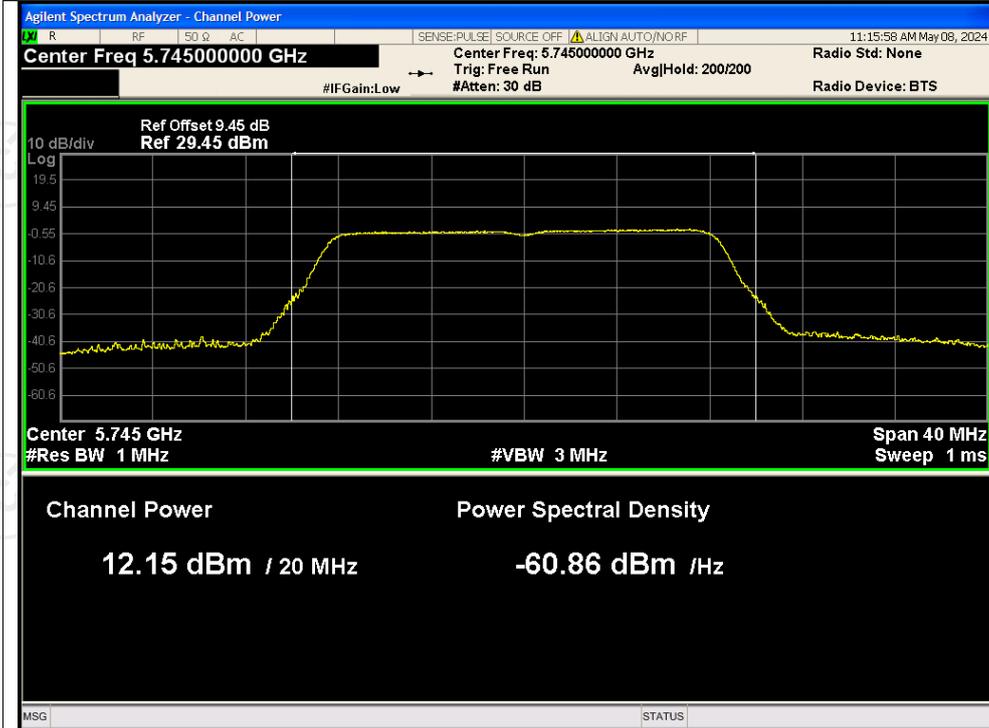




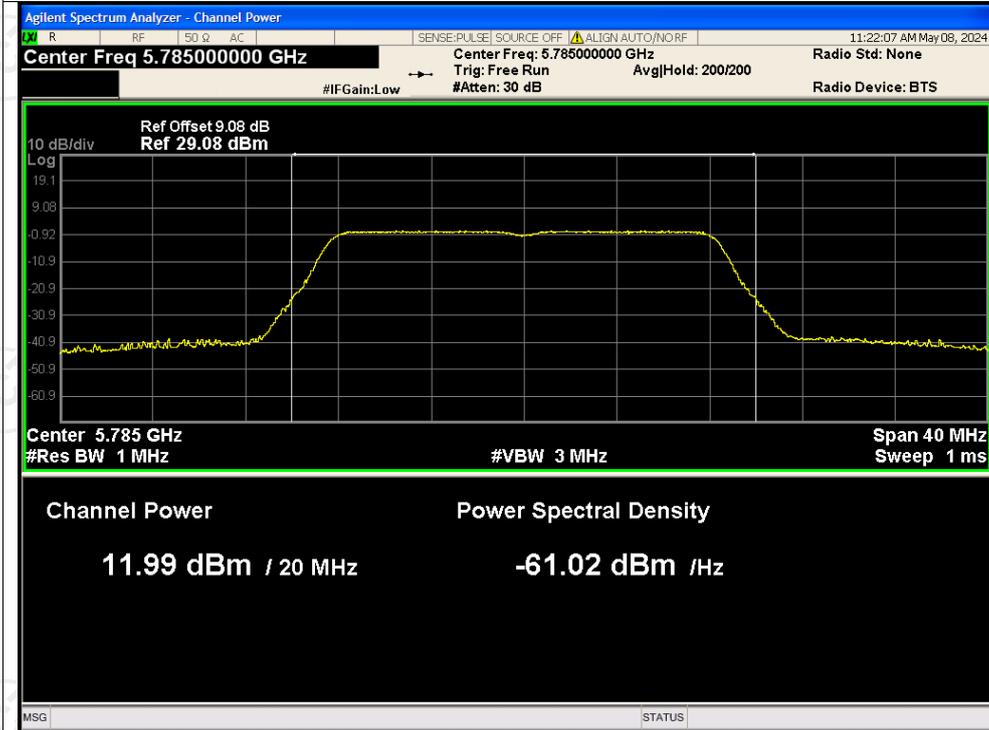
**Maximum Conducted Output Power**

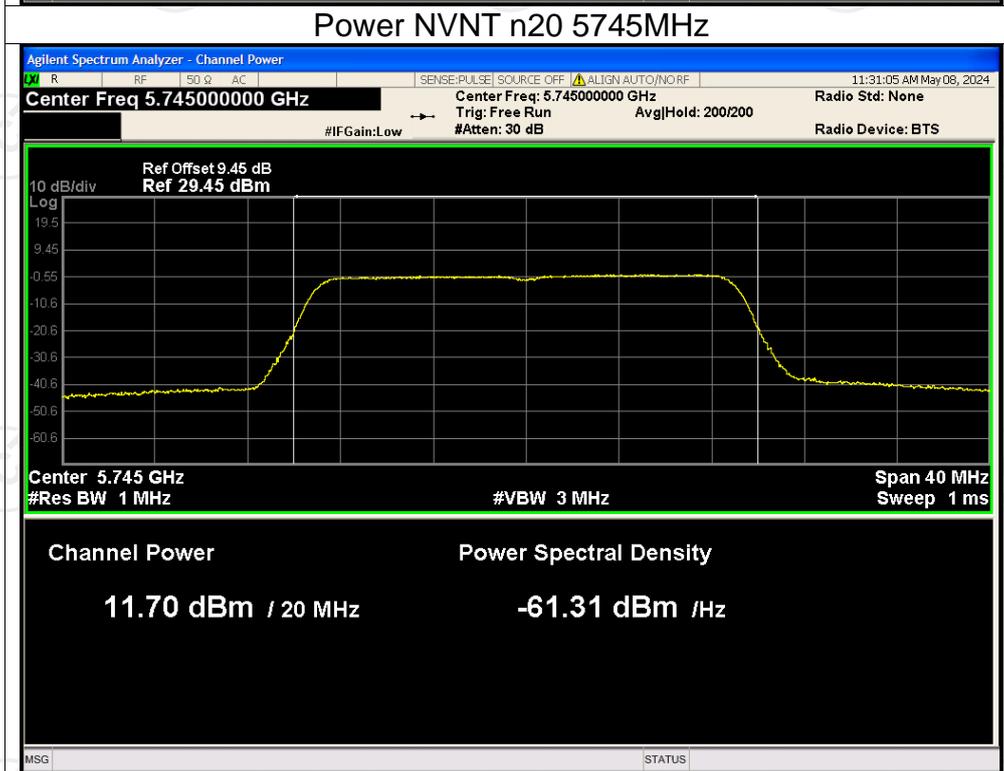
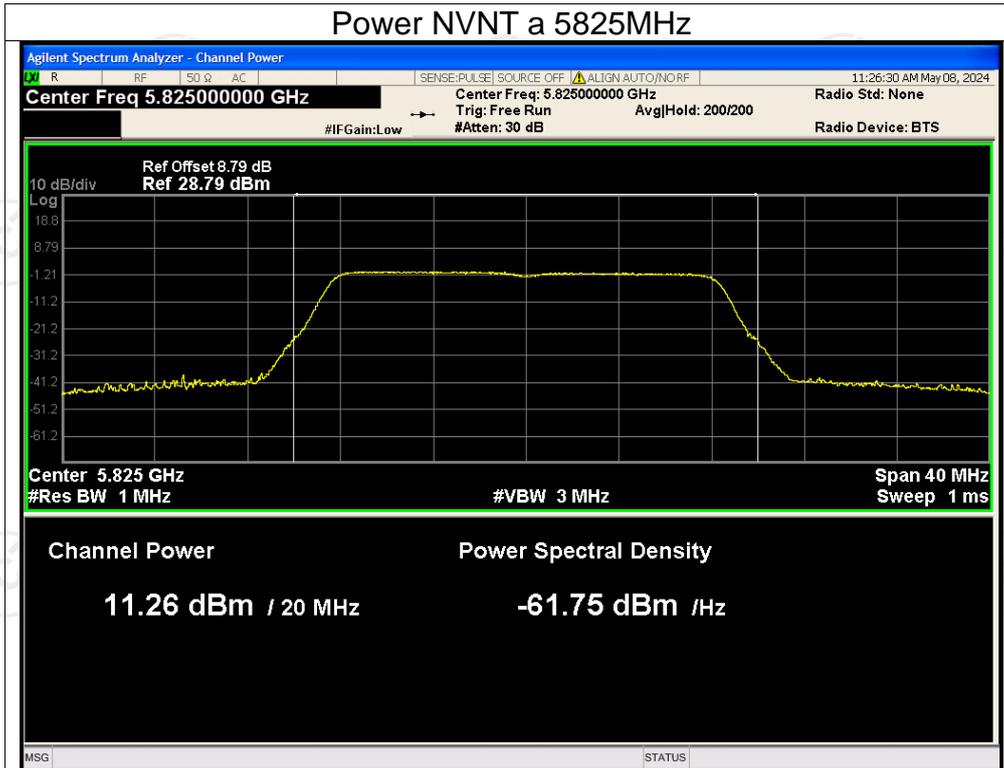
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	12.15	30	Pass
NVNT	a	5785	11.99	30	Pass
NVNT	a	5825	11.26	30	Pass
NVNT	n20	5745	11.70	30	Pass
NVNT	n20	5785	11.72	30	Pass
NVNT	n20	5825	11.07	30	Pass
NVNT	n40	5755	12.01	30	Pass
NVNT	n40	5795	11.50	30	Pass

Test Graphs  
Power NVNT a 5745MHz

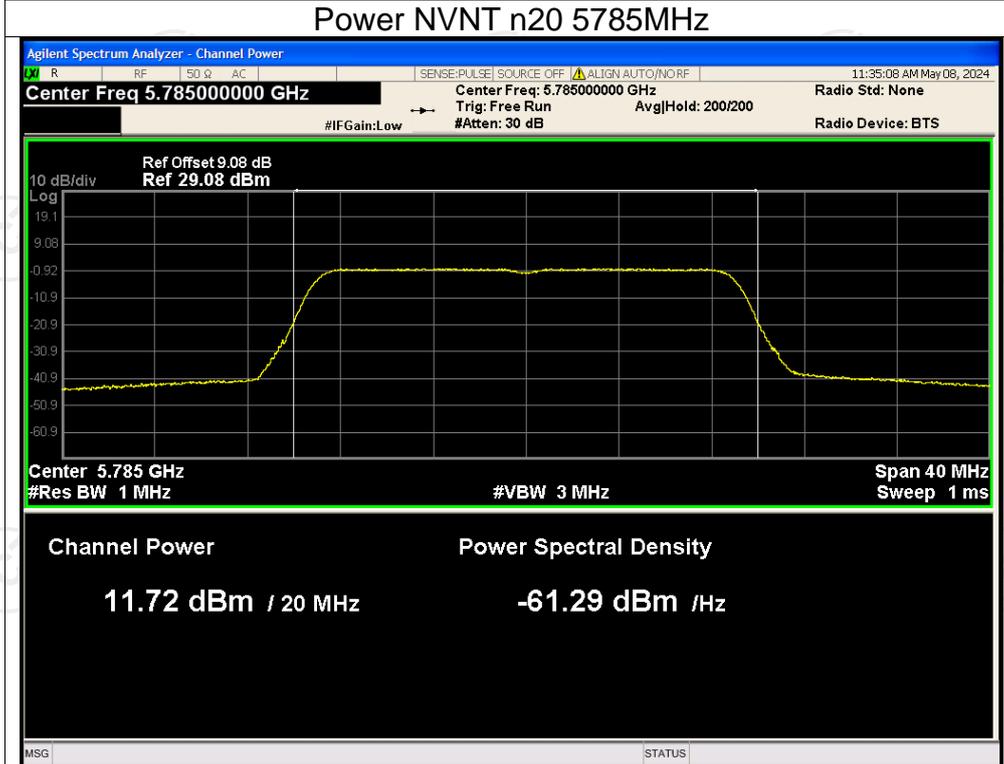


Power NVNT a 5785MHz

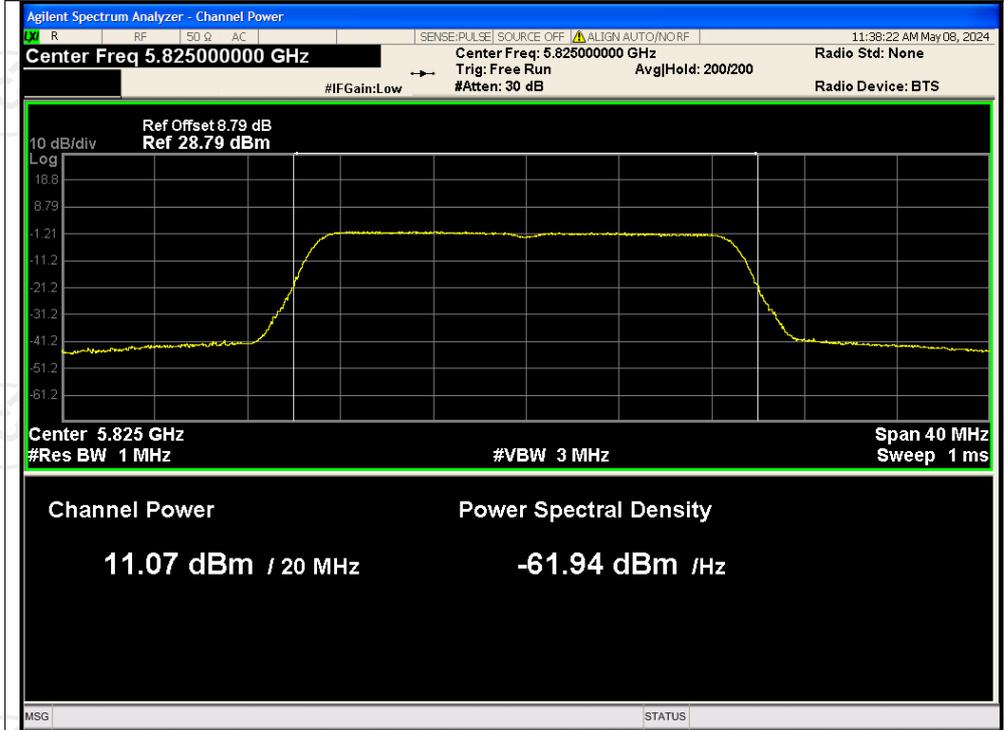




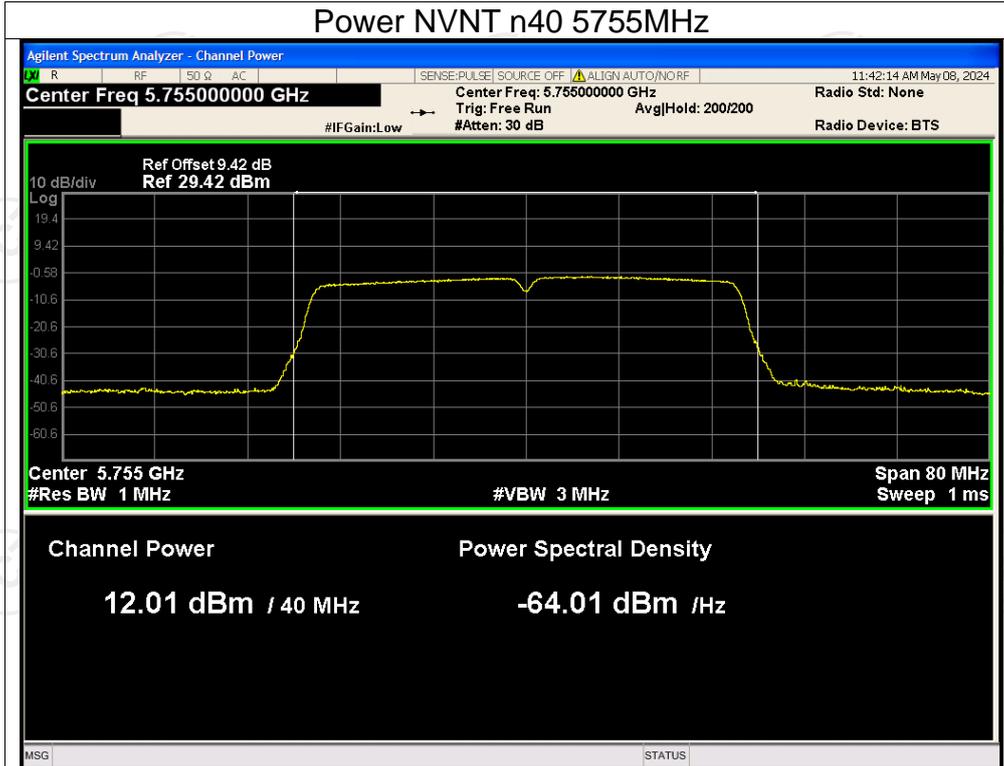
Power NVNT n20 5785MHz



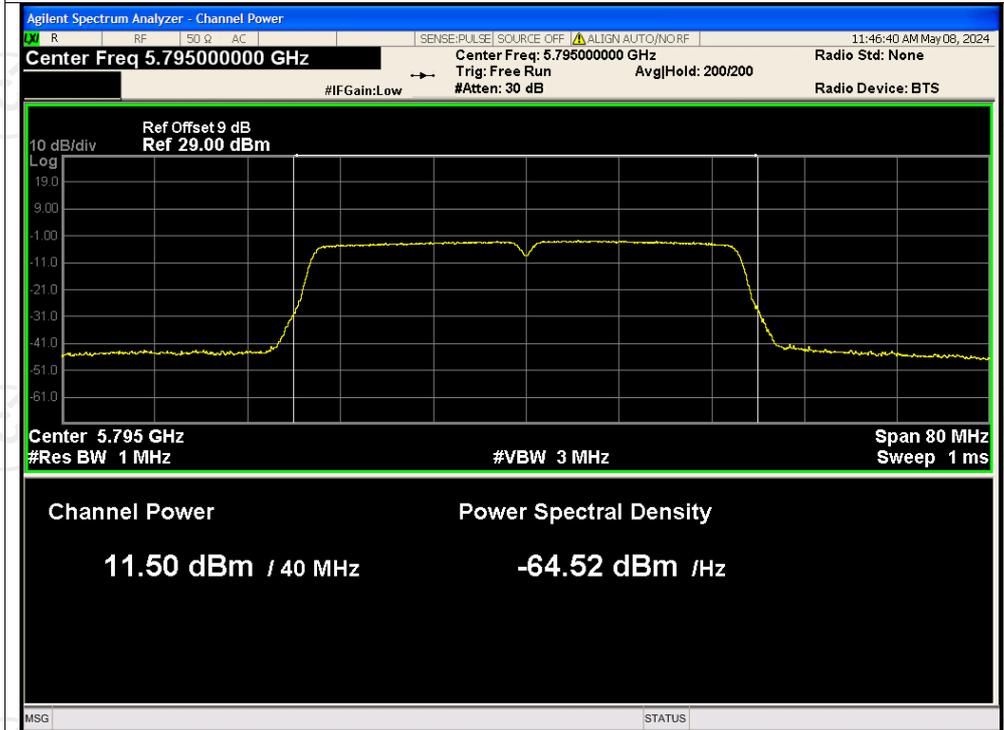
Power NVNT n20 5825MHz



Power NVNT n40 5755MHz



Power NVNT n40 5795MHz

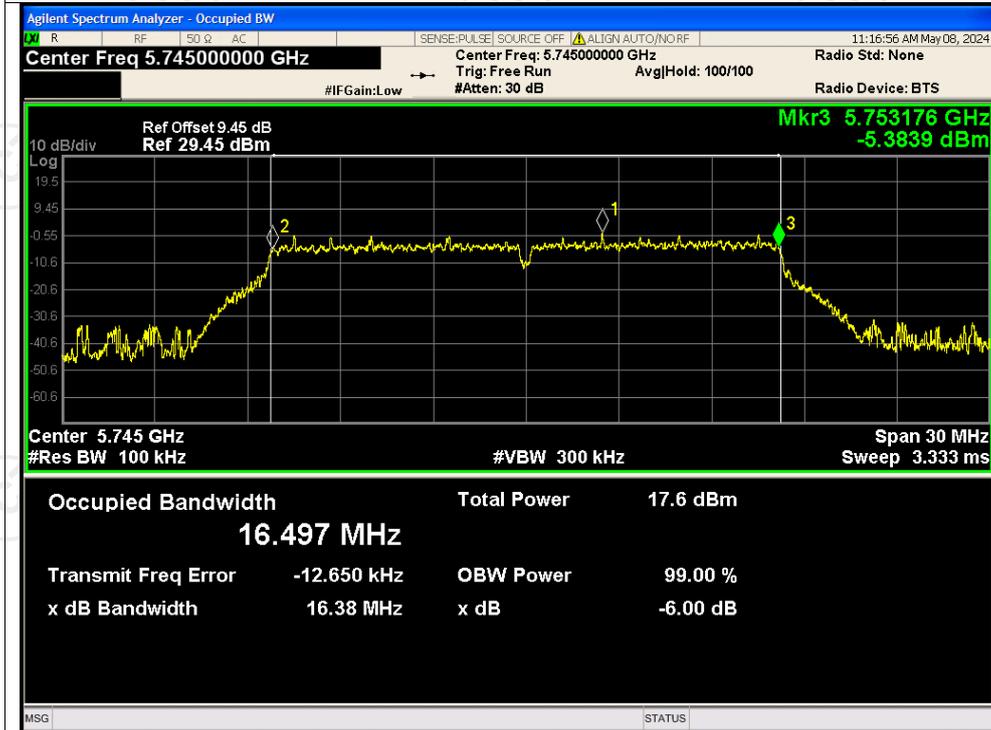


**-6dB Bandwidth**

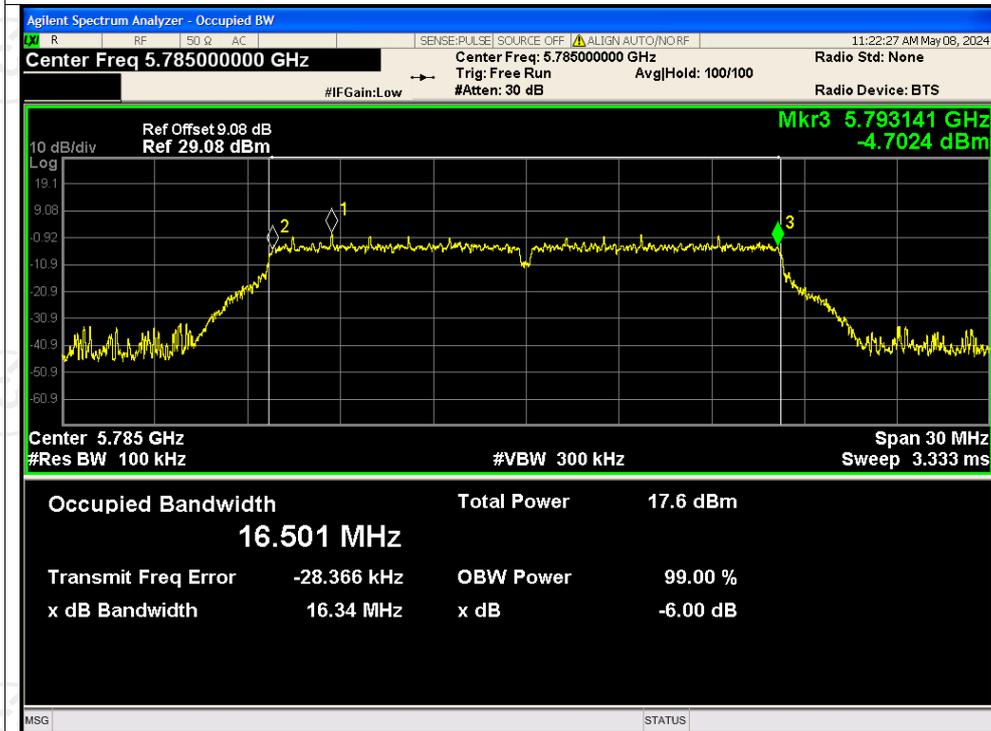
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	16.38	0.5	Pass
NVNT	a	5785	16.34	0.5	Pass
NVNT	a	5825	16.38	0.5	Pass
NVNT	n20	5745	17.66	0.5	Pass
NVNT	n20	5785	17.64	0.5	Pass
NVNT	n20	5825	17.66	0.5	Pass
NVNT	n40	5755	34.68	0.5	Pass
NVNT	n40	5795	36.03	0.5	Pass

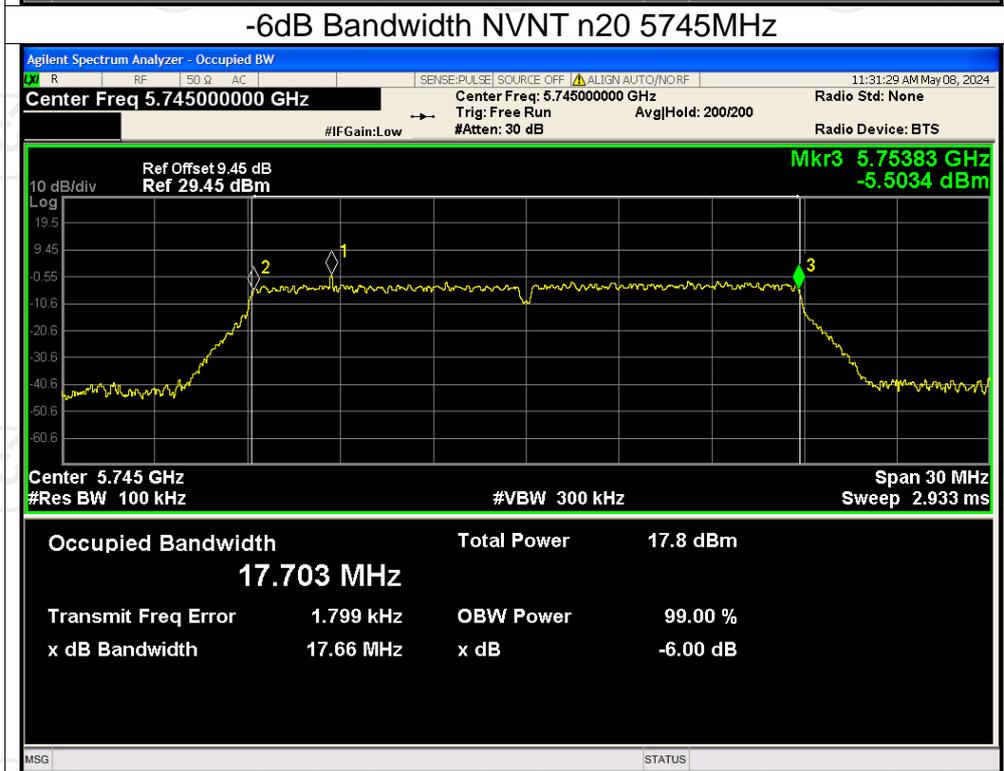
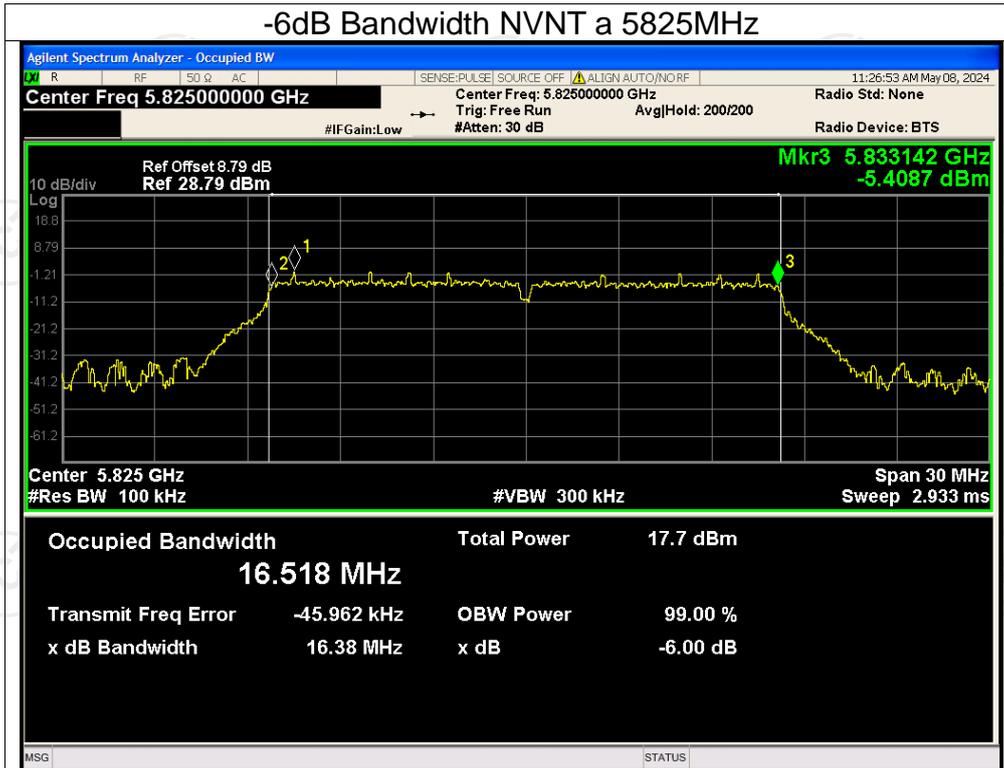
## Test Graphs

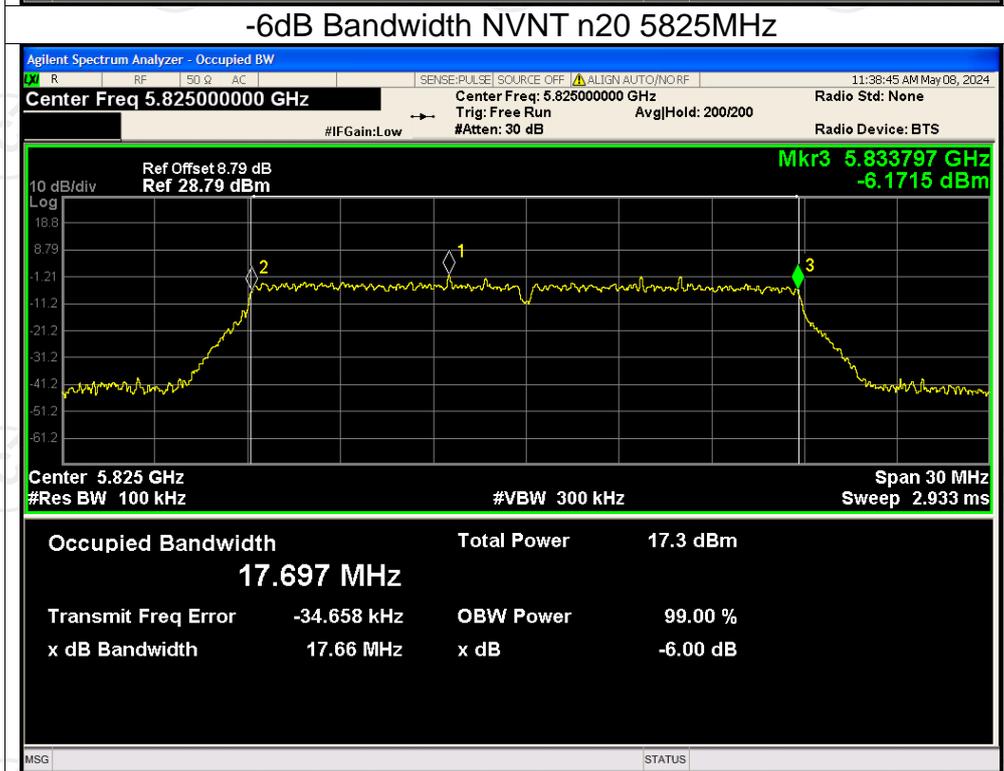
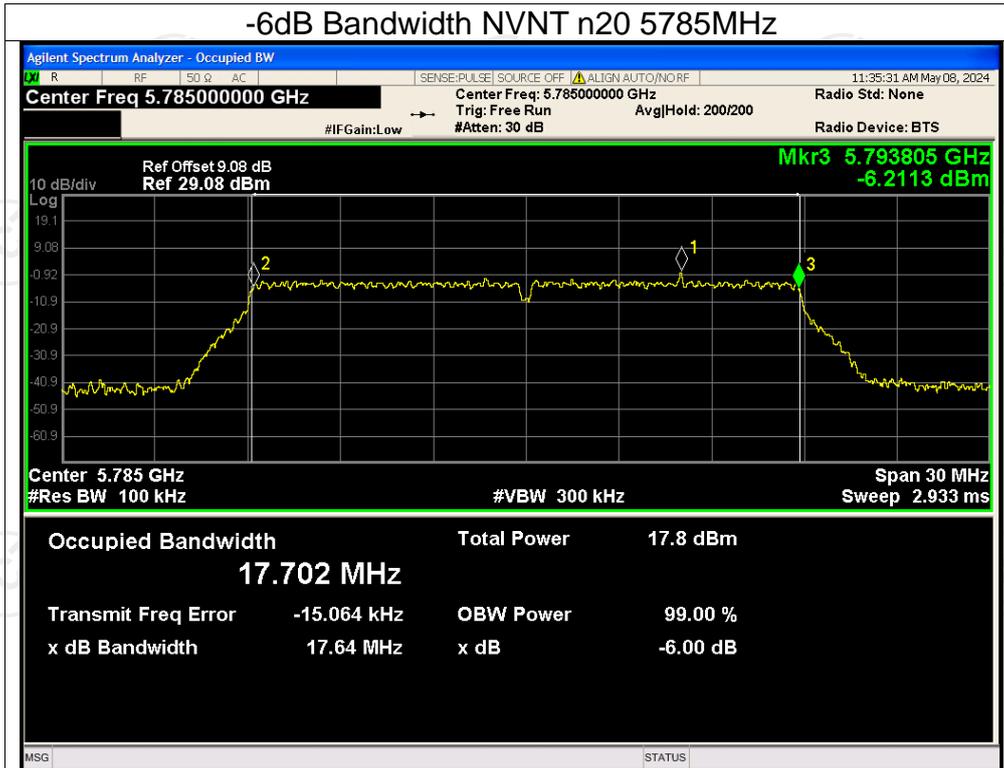
### -6dB Bandwidth NVNT a 5745MHz

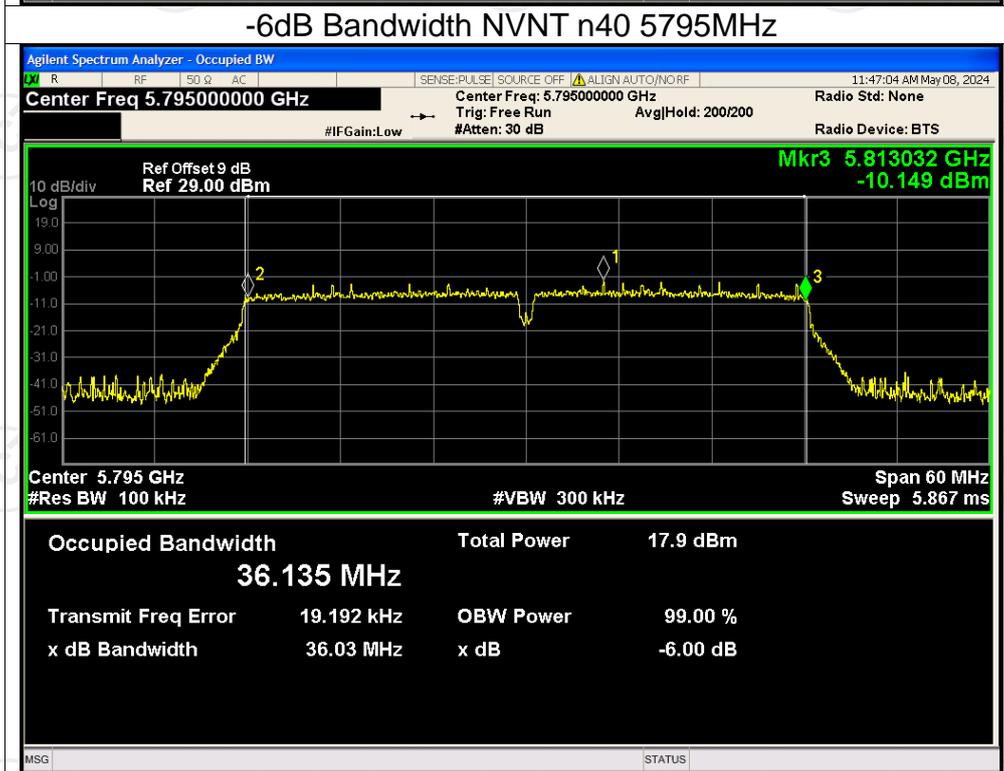
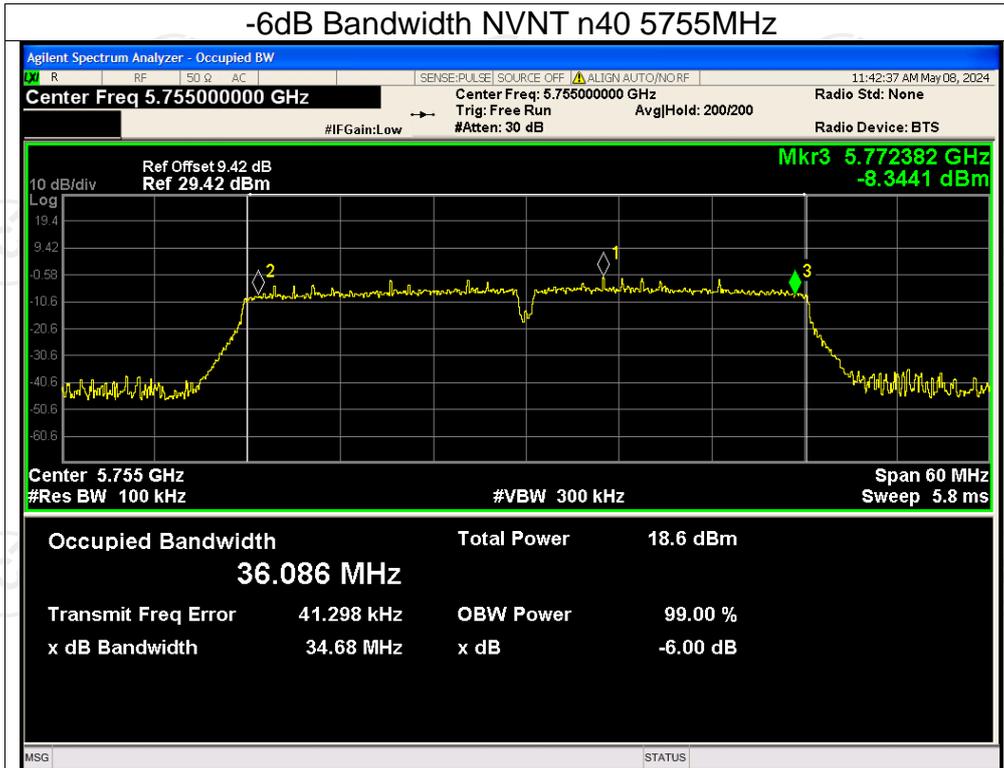


### -6dB Bandwidth NVNT a 5785MHz





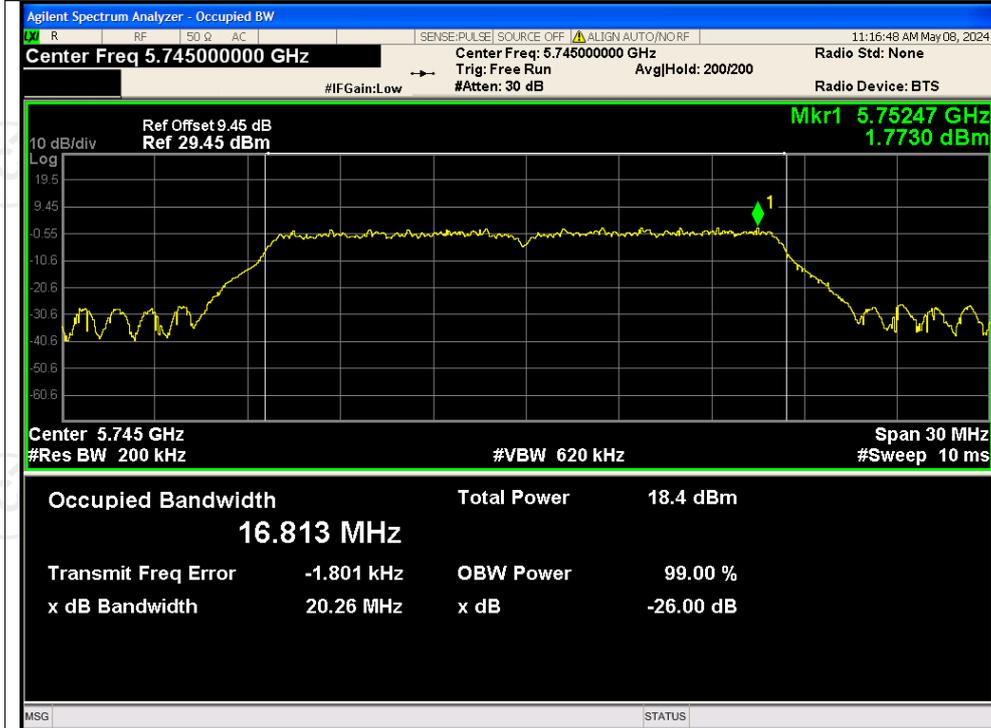




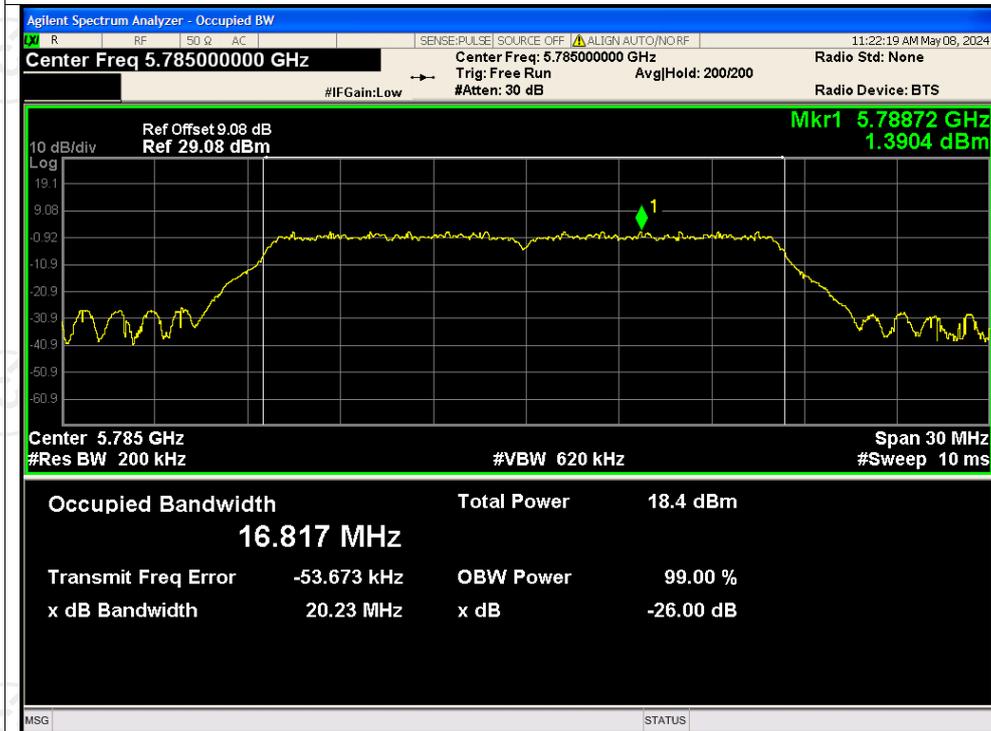
**Occupied Channel Bandwidth**

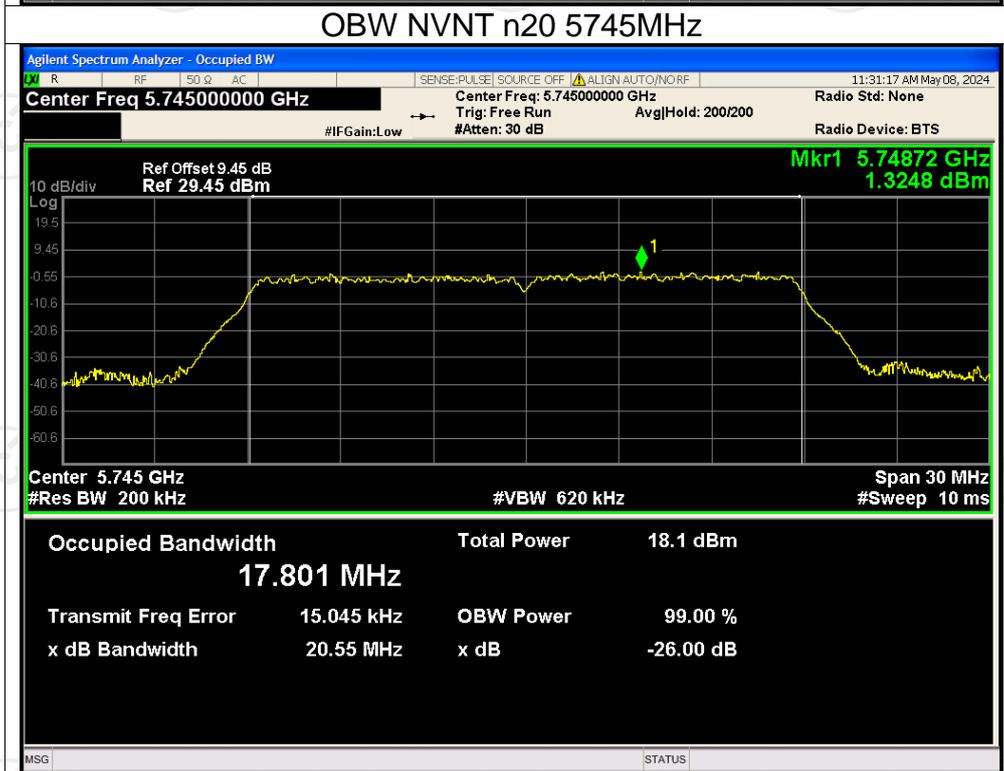
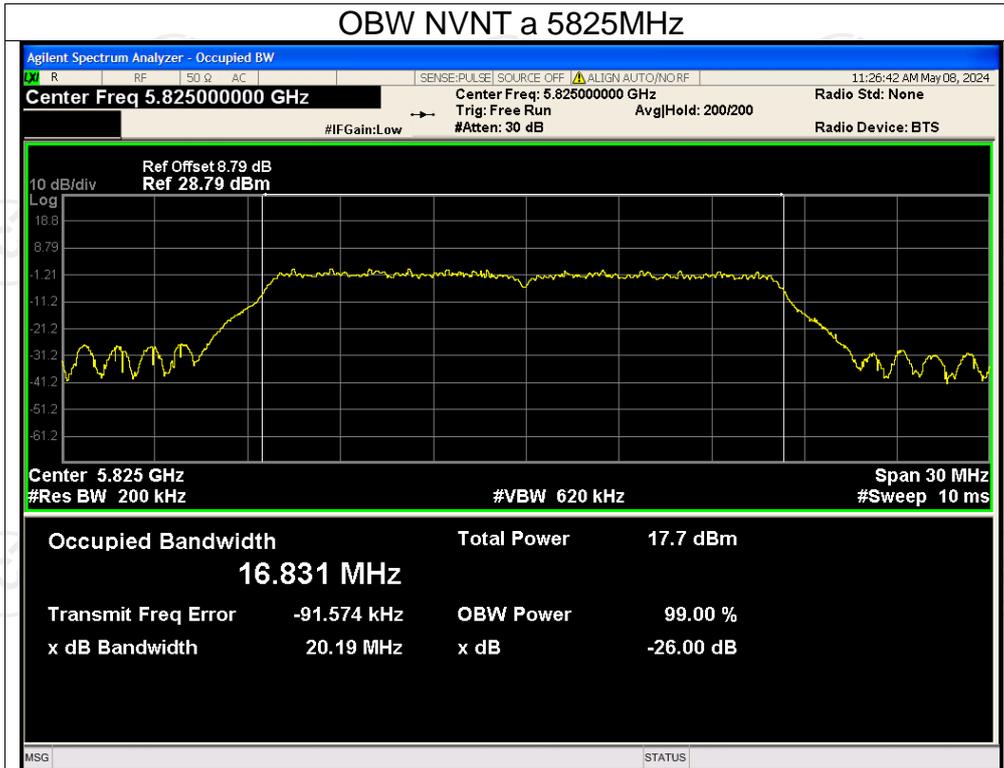
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5745	16.813
NVNT	a	5785	16.817
NVNT	a	5825	16.831
NVNT	n20	5745	17.801
NVNT	n20	5785	17.792
NVNT	n20	5825	17.796
NVNT	n40	5755	36.196
NVNT	n40	5795	36.349

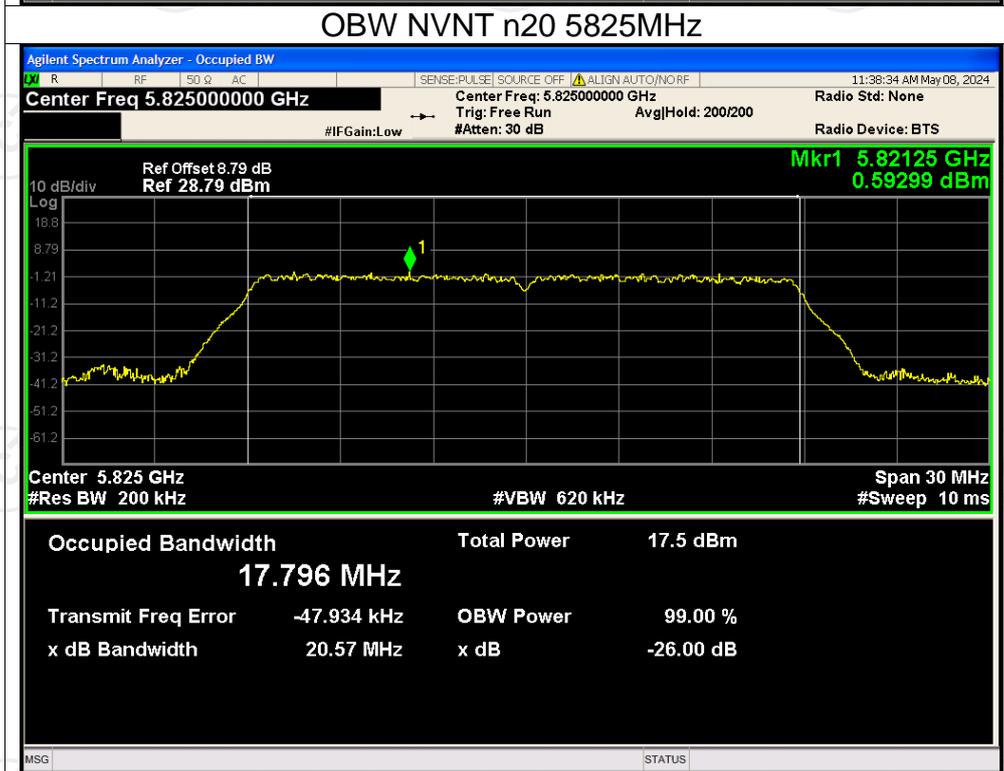
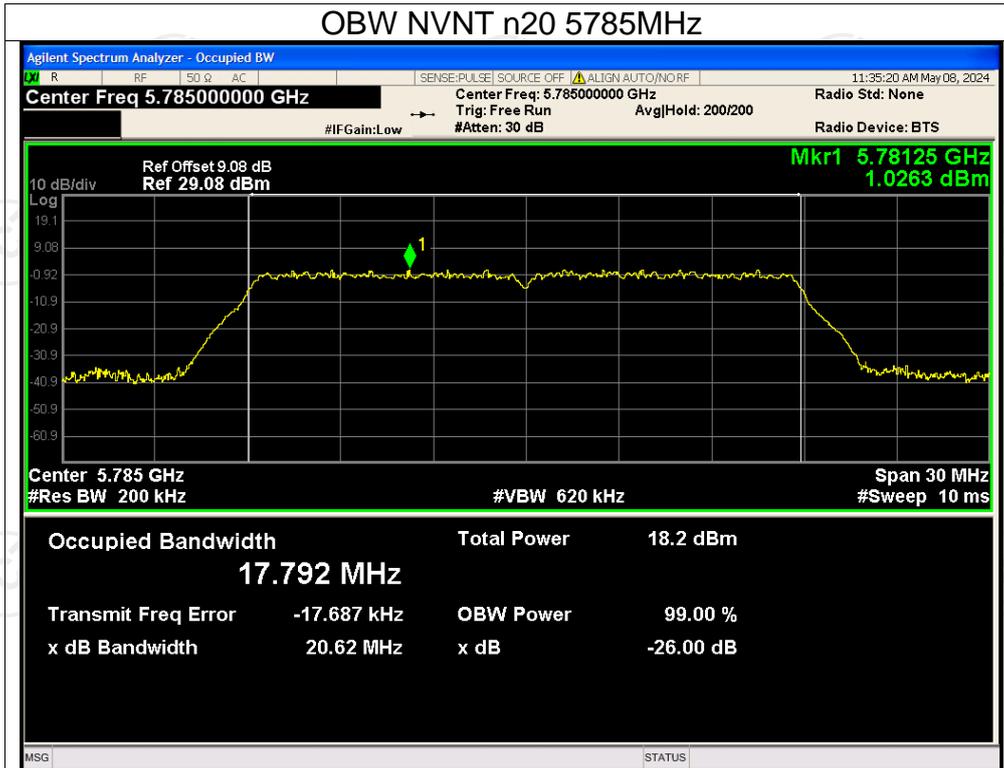
## Test Graphs OBW NVNT a 5745MHz

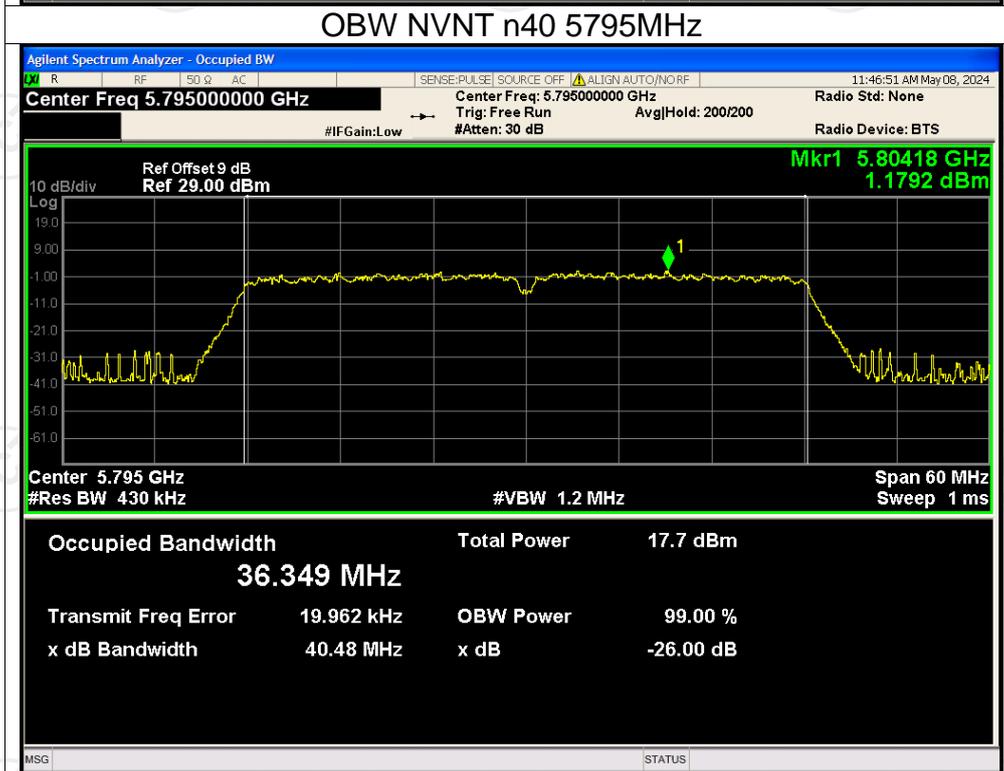
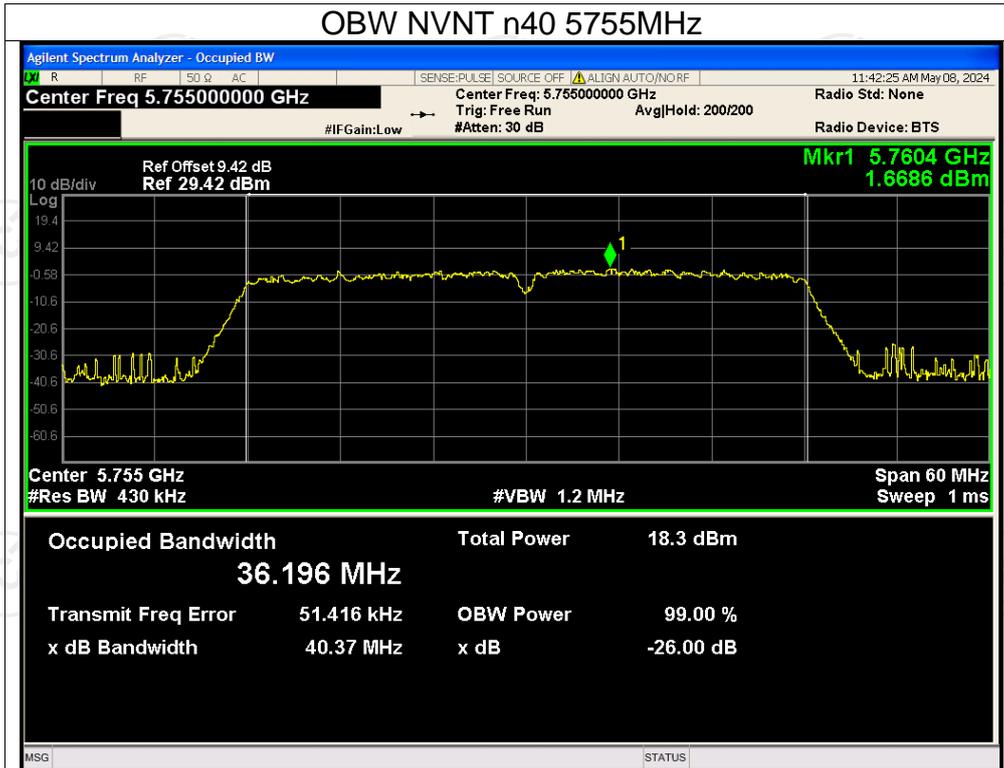


## OBW NVNT a 5785MHz





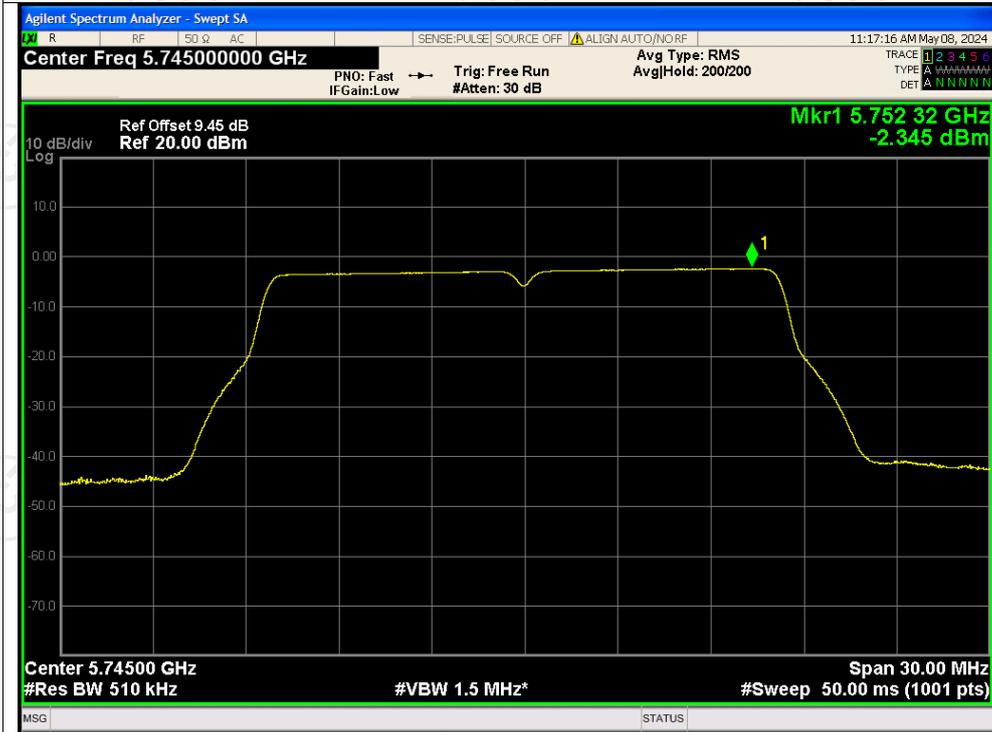




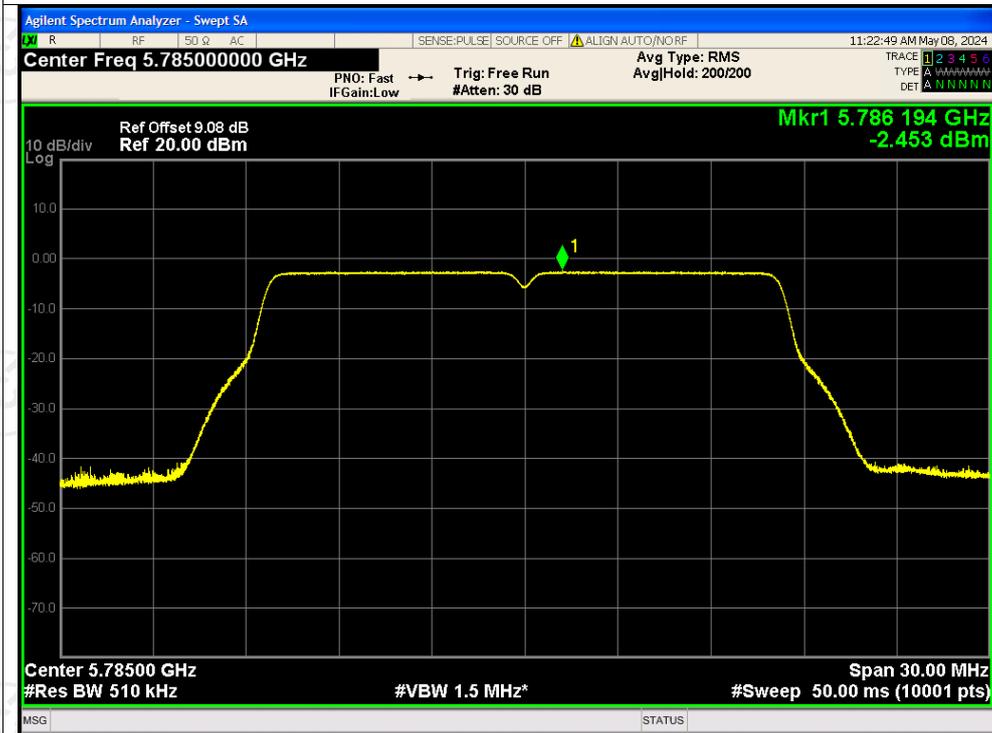
**Maximum Power Spectral Density Level**

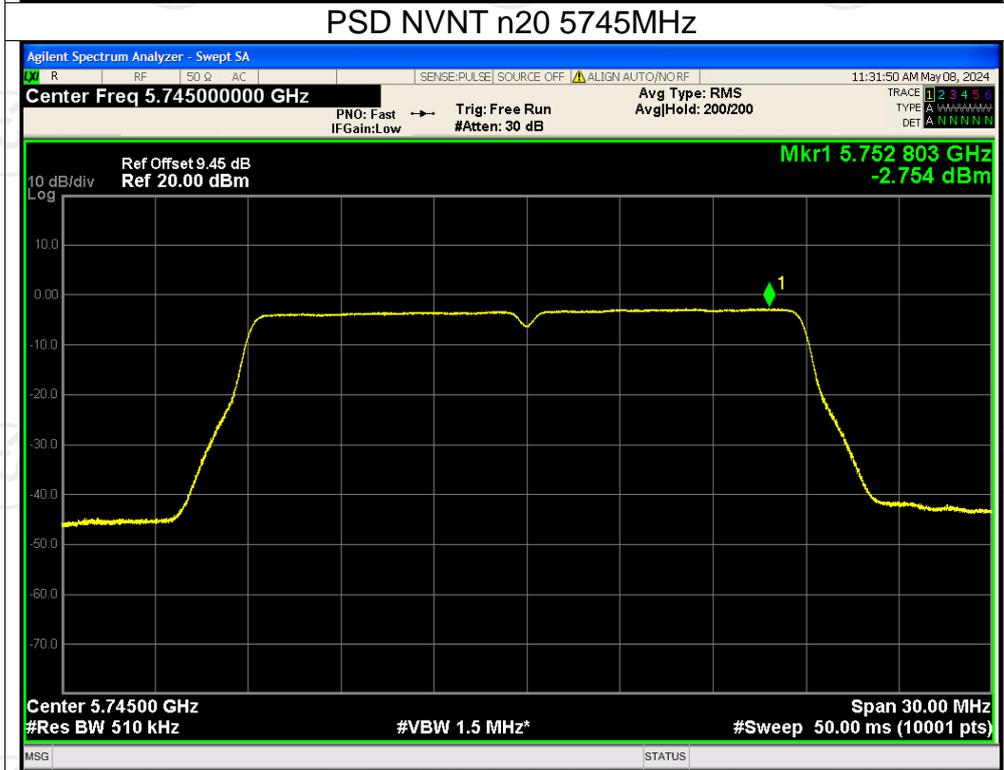
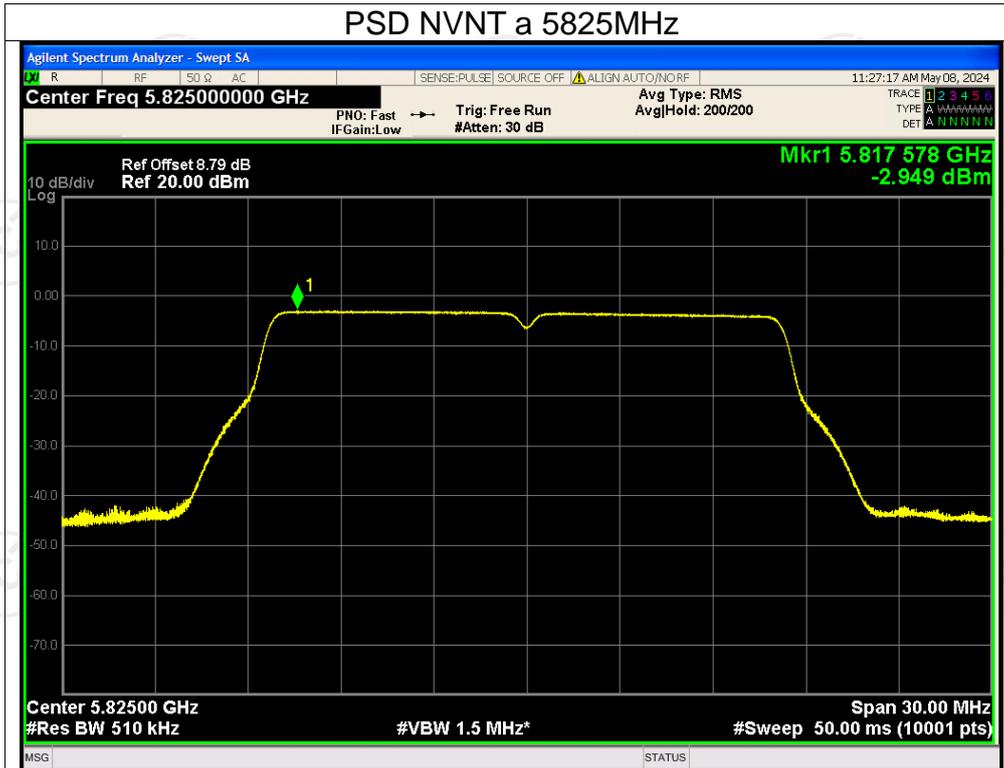
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	-2.35	30	Pass
NVNT	a	5785	-2.45	30	Pass
NVNT	a	5825	-2.95	30	Pass
NVNT	n20	5745	-2.75	30	Pass
NVNT	n20	5785	-3.07	30	Pass
NVNT	n20	5825	-3.37	30	Pass
NVNT	n40	5755	-4.72	30	Pass
NVNT	n40	5795	-6.04	30	Pass

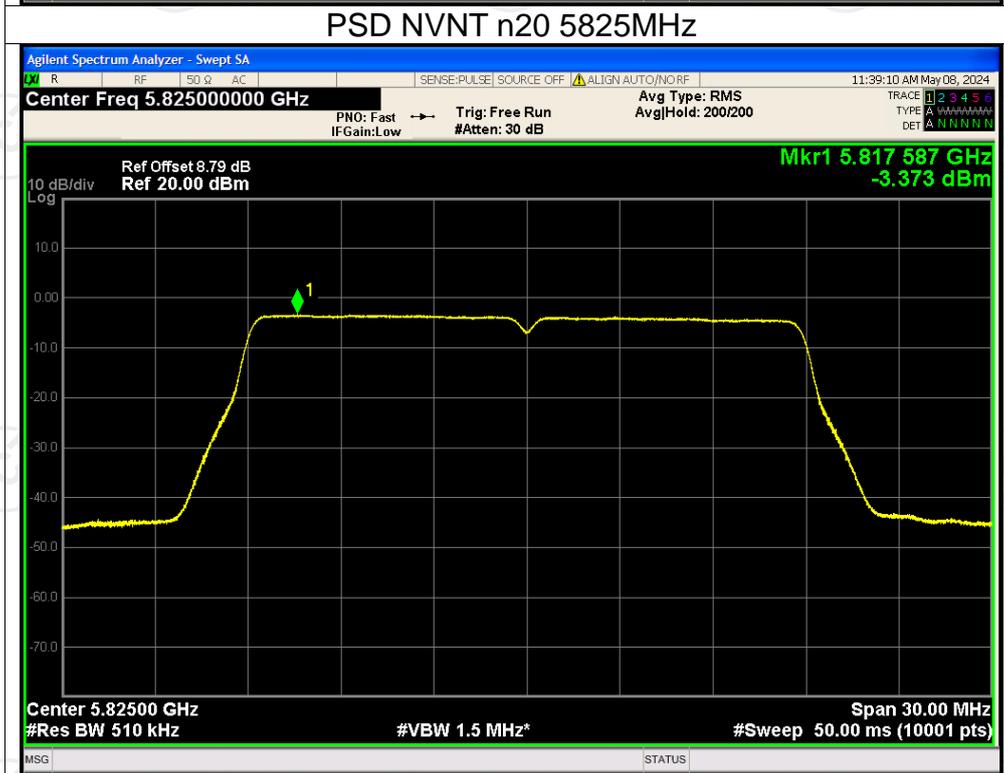
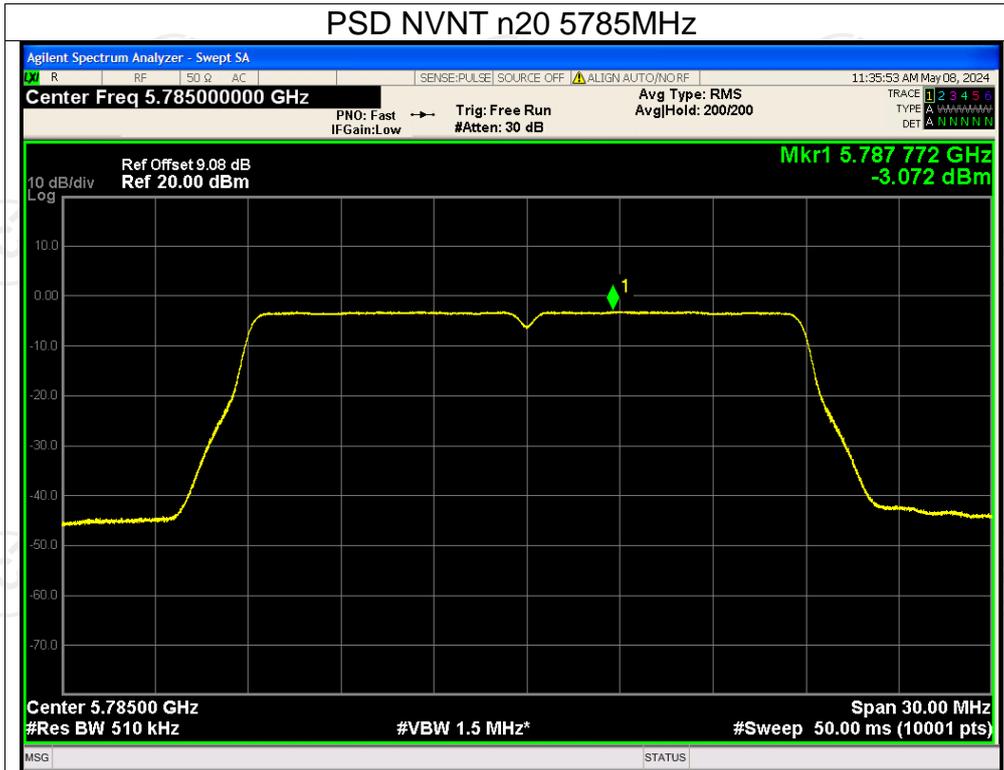
Test Graphs  
PSD NVNT a 5745MHz

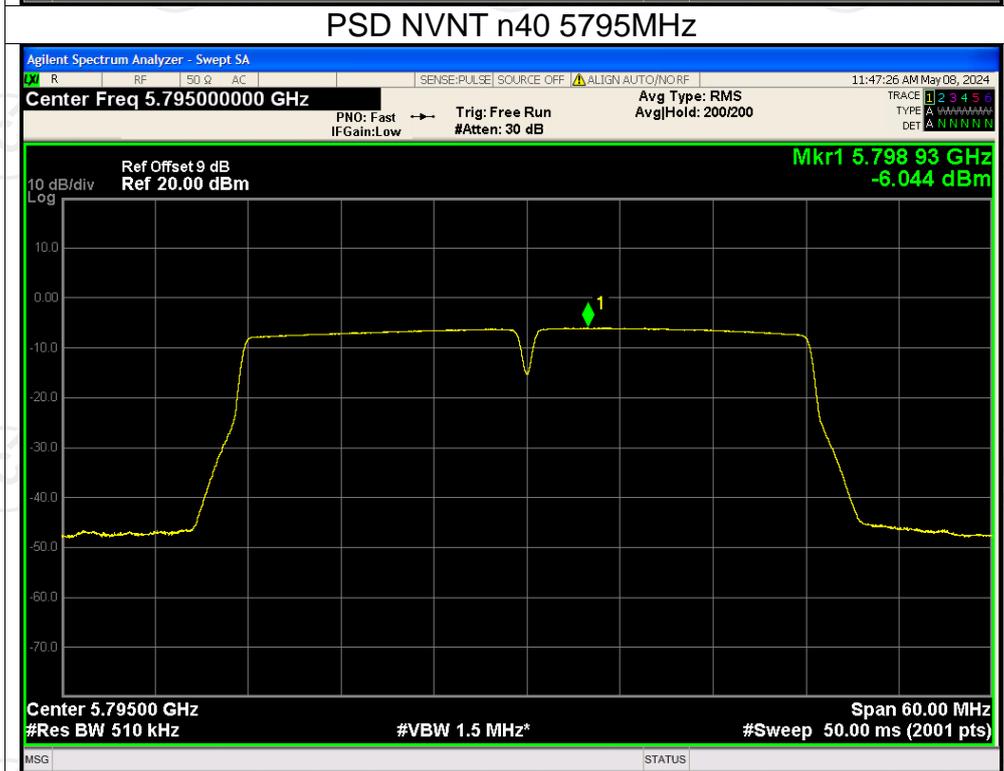
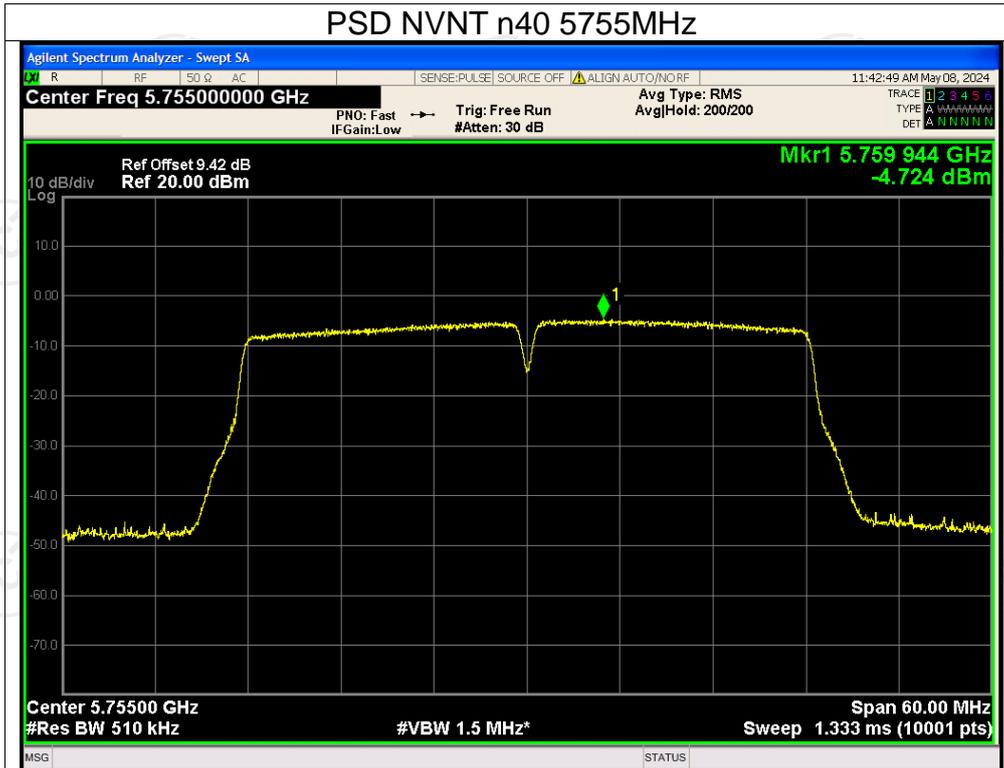


PSD NVNT a 5785MHz









## Appendix B: Photographs of Test Setup

Refer to the test report No. TCT240429E005

## Appendix C: Photographs of EUT

Refer to the test report No. TCT240429E005

**\*\*\*\*\*END OF REPORT\*\*\*\*\***