TCT 通测检测
TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID. ..... :	2BPFF-G01	
Test Report No..... :	TCT250522E040	
Date of issue..... :	Jun. 16, 2025	
Testing laboratory ..... :	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	Shenzhen Xinwang Optoelectronic Display Technology Co., Ltd.	
Address..... :	Room 502, Jintian Building, Kaitian Science Park, Pinghu Community, Pinghu Subdistrict, Longgang District, Shenzhen City, China	
Manufacturer's name ... :	Shenzhen Xinwang Optoelectronic Display Technology Co., Ltd.	
Address..... :	Room 502, Jintian Building, Kaitian Science Park, Pinghu Community, Pinghu Subdistrict, Longgang District, Shenzhen City, China	
Standard(s) ..... :	FCC CFR Title 47 Part 15 Subpart E Section 15.407 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01	
Product Name..... :	Carplay	
Trade Mark ..... :	N/A	
Model/Type reference..... :	G01, G02, G03, G04, G05, G06, G07, G08, G09, G10, G11	
Rating(s) ..... :	DC 5V	
Date of receipt of test item ..... :	May 22, 2025	
Date (s) of performance of test..... :	May 22, 2025 ~ Jun. 16, 2025	
Tested by (+signature) ... :	Yannie ZHONG	Yannie Zhong
Check by (+signature).... :	Beryl ZHAO	Beryl Zhao
Approved by (+signature):	Tomsin	Tomsin

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

1. General Product Information

1.1. EUT description

Product Name.....:	Carplay
Model/Type reference.....:	G01
Sample Number.....:	TCT250522E034-0101
Operation Frequency .....:	Band 3: 5745 MHz ~ 5825 MHz
Channel Bandwidth.....:	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz
Modulation Technology .....:	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type.....:	256QAM, 64QAM, 16QAM, BPSK, QPSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	2.61dBi
Rating(s) .....:	DC 5V

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	G01	☒
Other models	G02, G03, G04, G05, G06, G07, G08, G09, G10, G11	☐

Note: G01 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 G01 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.

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

3. General Information

3.1. Test environment and mode

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

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

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

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

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

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
DESAY SV AUTOMOTIVE	5GG 035 280 D	/	/	DESAY SV

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.
- A2LA-No.: 4320.01
  SHENZHEN TONGCE TESTING LAB
  The testing lab has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

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

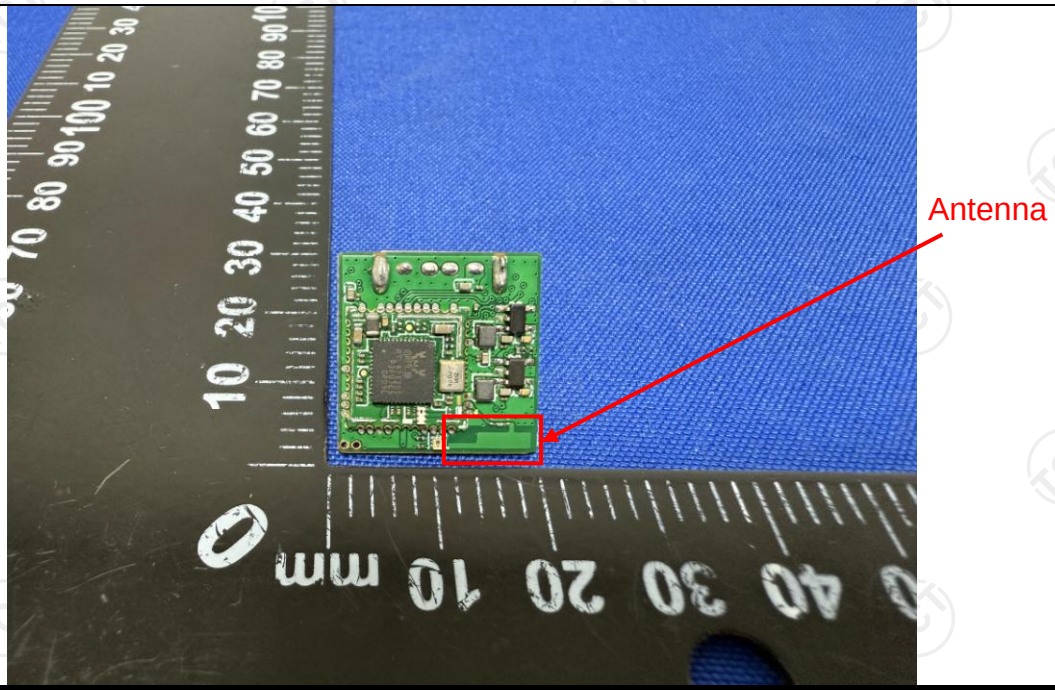
The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

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

5. Test Results and Measurement Data

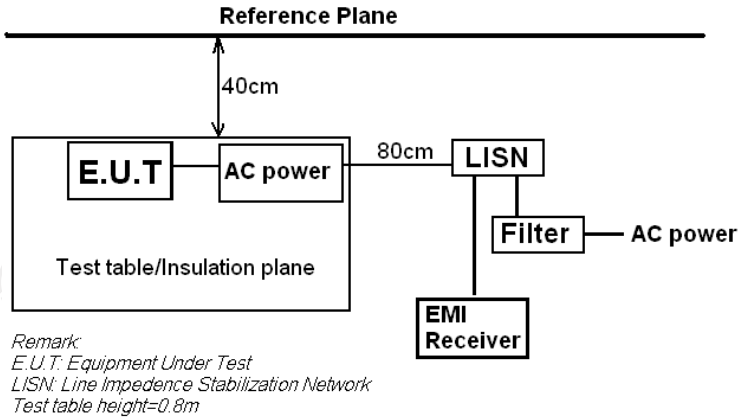
5.1. Antenna requirement

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 PCB antenna which permanently attached, and the best case gain of the antenna is 2.61dBi.	



5.2. Conducted Emission

5.2.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.207</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2020</td></tr>
<tr><td>Frequency Range:</td><td>150 kHz to 30 MHz</td></tr>
<tr><td>Receiver setup:</td><td>RBW=9 kHz, VBW=30 kHz, Sweep time=auto</td></tr>
<tr><td>Limits:</td><td>
<table>
<tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBuV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></tr>
<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>
</table>
</td></tr>
<tr><td>Test Setup:</td><td>


</td></tr>
<tr><td>Test Mode:</td><td>Transmitting Mode</td></tr>
<tr><td>Test Procedure:</td><td>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.
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).
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 C63.10:2020 on conducted measurement.</td></tr>
<tr><td>Test Result:</td><td>N/A</td></tr>
</table>

5.3. Maximum Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)& Part 2 J Section 2.1046
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E
Limit:	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)
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 2, b 2. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 5. Measure the conducted output power and record the results in the test report.
Test Result:	PASS

5.3.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Power detector box	MWRFtest	MW100-RFCB	MW210531TCT	Jan. 21, 2025	Jan. 20, 2026

5.4. 6dB Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 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. 4. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Power detector box	MWRFtest	MW100-RFCB	MW210531TCT	Jan. 21, 2025	Jan. 20, 2026

5.5. 26dB Bandwidth and 99% Occupied Bandwidth

5.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Limit:	No restriction limits
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D 2. Set to the maximum power setting and enable the EUT transmit continuously. 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. 4. Measure and record the results in the test report.
Test Result:	PASS

5.5.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Power detector box	MWRFtest	MW100-RFCB	MW210531TCT	Jan. 21, 2025	Jan. 20, 2026

5.6. Power Spectral Density

5.6.1. Test Specification

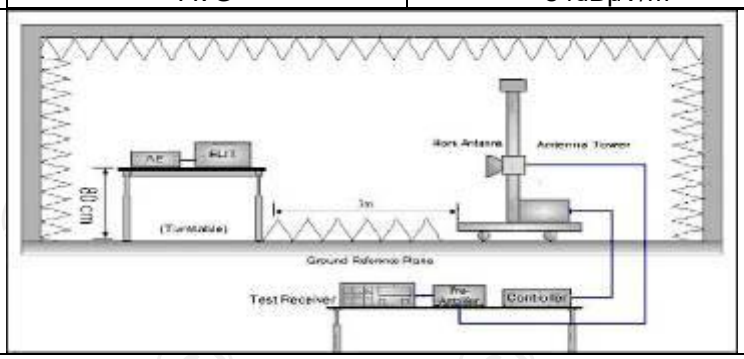
Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	≤11.00dBm/MHz for Band 1 5150MHz-5250MHz(client device) ≤11.00dBm/MHz for Band 2A&2C 5250-5350&5470-5725 ≤30.00dBm/500KHz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

5.6.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Power detector box	MWRFtest	MW100-RFCB	MW210531TCT	Jan. 21, 2025	Jan. 20, 2026

5.7. Band edge

5.7.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC CFR47 Part 15E Section 15.407</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2020</td></tr>
<tr><td>Limit:</td><td>In un-restricted band:
For Band 1&2A&2C: -27dBm/MHz
For Band 3:
<table>
<tr><td>Frequency (MHz)</td><td>Limit (dBm/MHz)</td><td>Frequency (MHz)</td><td>Limit (dBm/MHz)</td></tr>
<tr><td>< 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>> 5925</td><td>-27</td></tr>
</table>
E[dBμV/m] = EIRP[dBm] + 95.2 @3m
In restricted band:
<table>
<tr><td>Detector</td><td>Limit@3m</td></tr>
<tr><td>Peak</td><td>74dBμV/m</td></tr>
<tr><td>AVG</td><td>54dBμV/m</td></tr>
</table></td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td>Test Mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Test Procedure:</td><td>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold</td></tr>
</table>

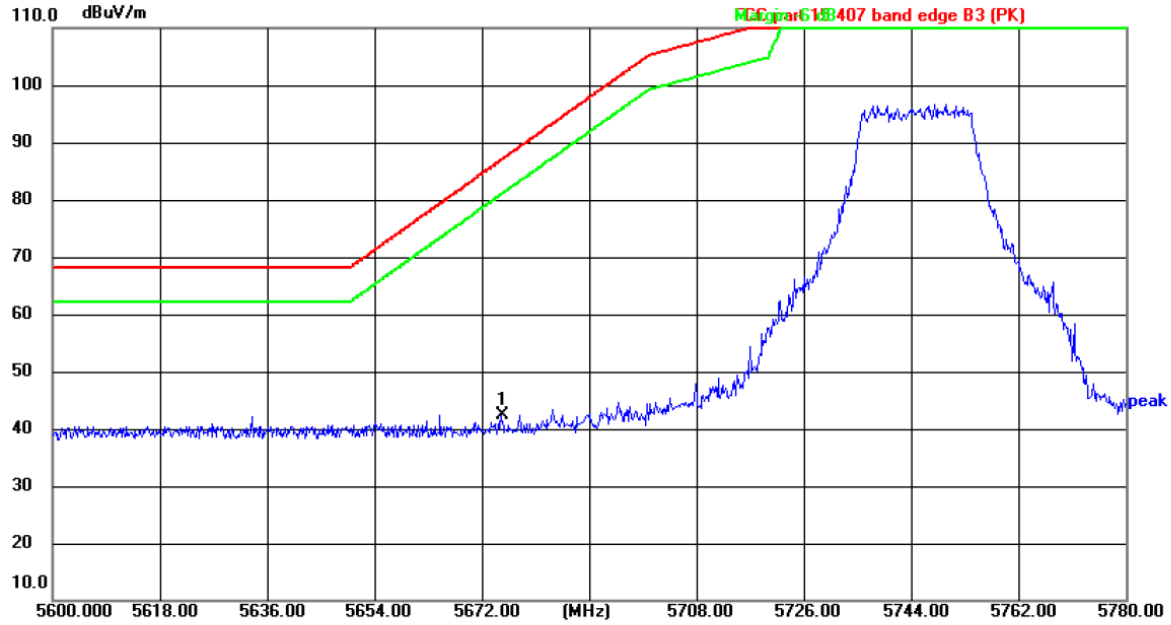
	Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as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

5.7.2. Test Instruments

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

5.7.3. Test Data

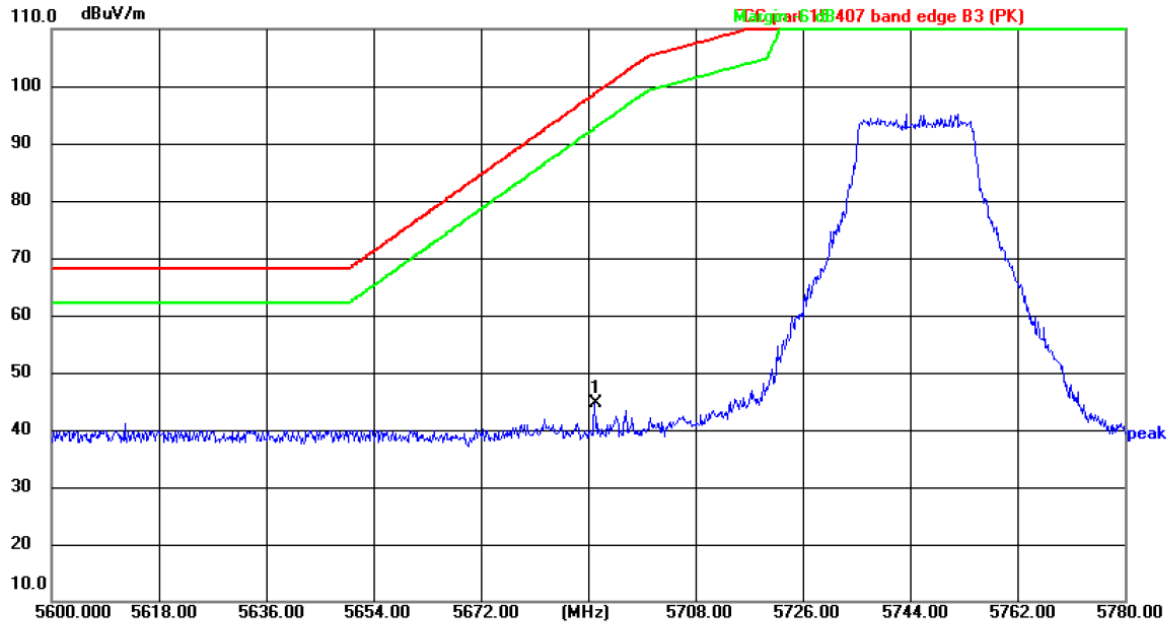
AC20-5745



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

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 5 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5675.276	49.35	-6.95	42.40	86.90	-44.50	peak	P	

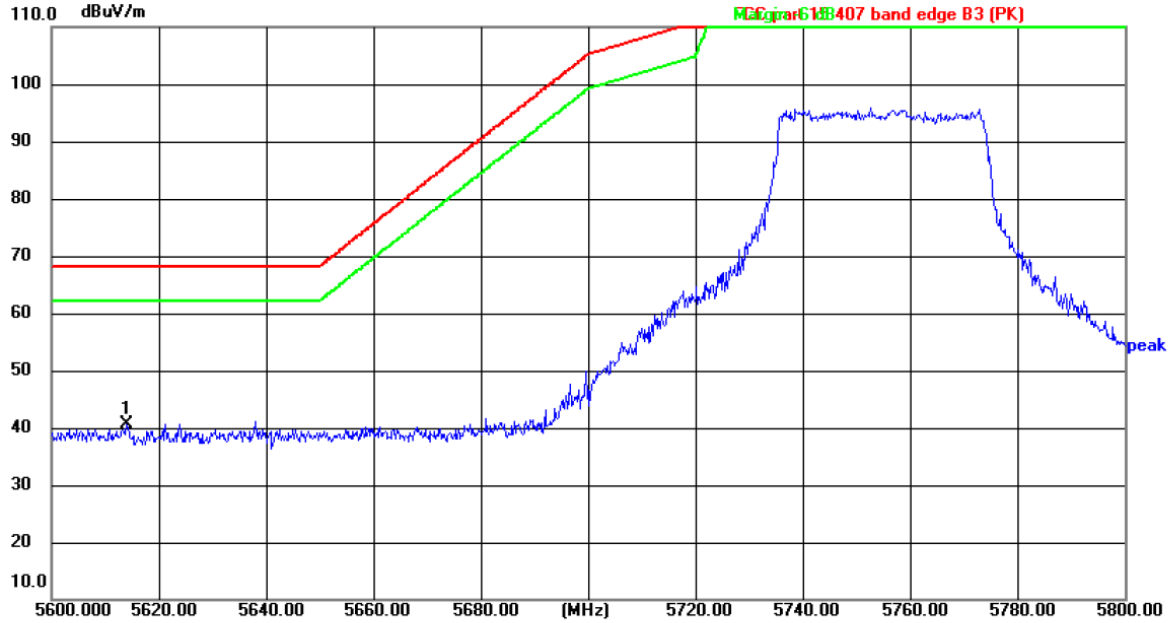


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 23.5(℃) Humidity: 47 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 5 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5691.098	51.41	-6.89	44.52	98.61	-54.09	peak	P	

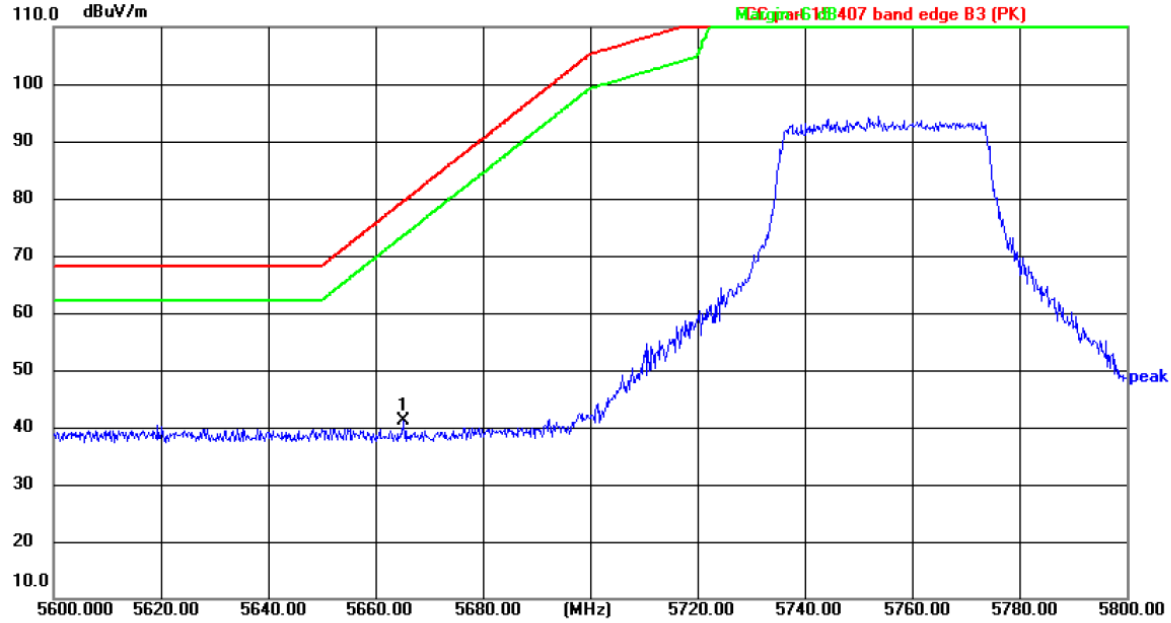
AC40-5755



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

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 5 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5614.160	47.86	-7.16	40.70	68.20	-27.50	peak	P	

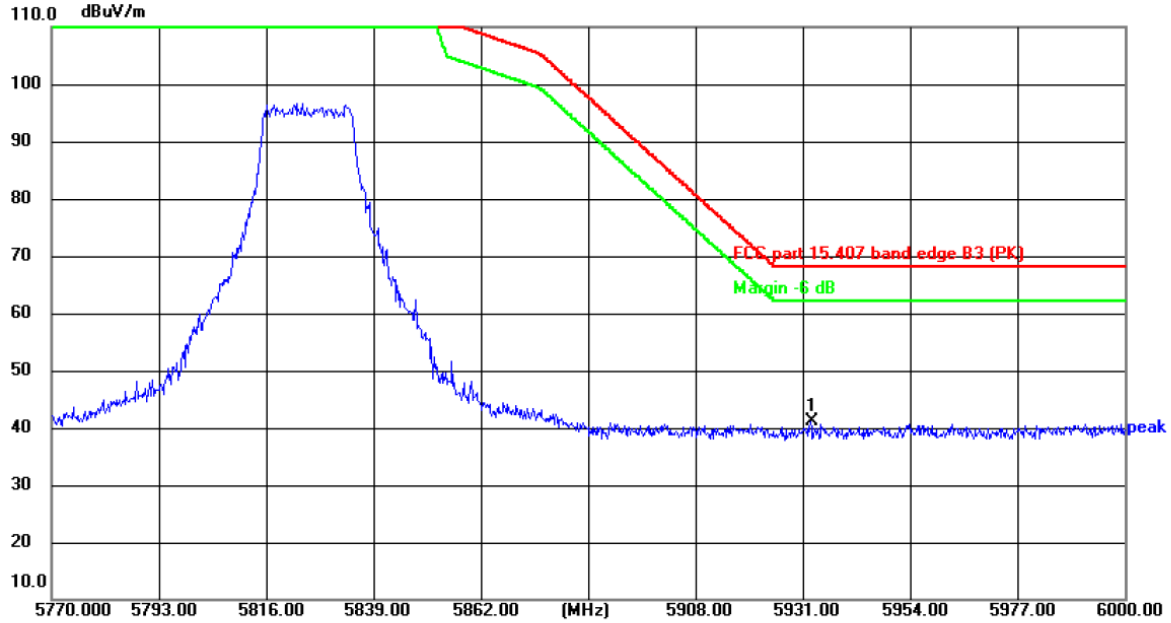


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 23.5(℃) Humidity: 47 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 5 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5665.240	48.03	-6.98	41.05	79.48	-38.43	peak	P	

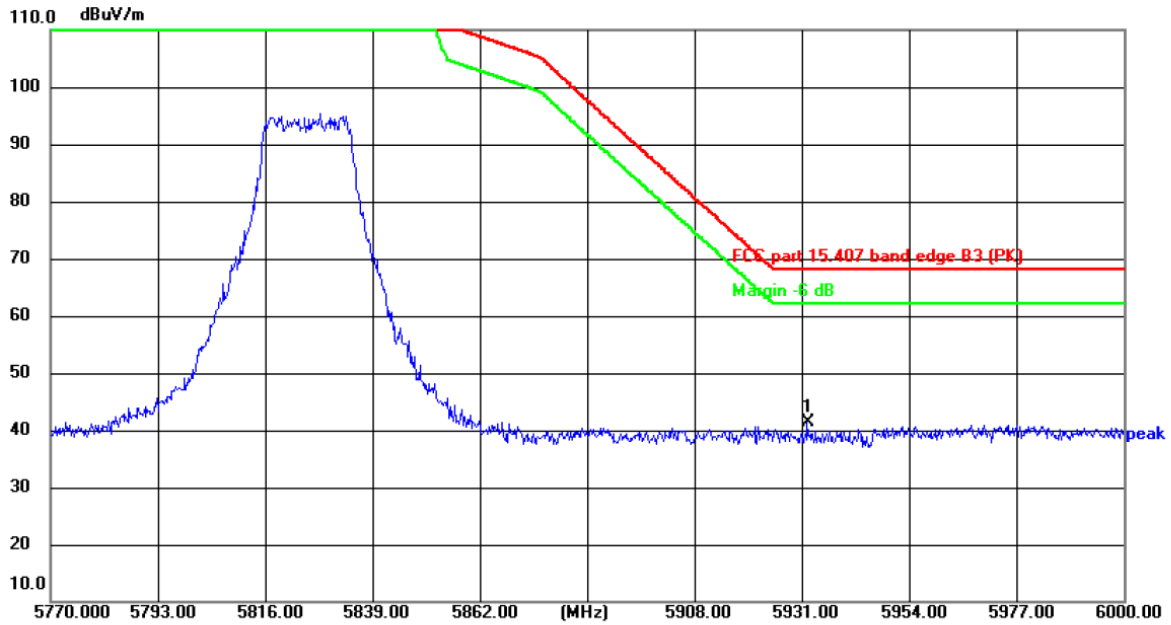
AC20-5825



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

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 5 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5932.794	46.80	-5.78	41.02	68.20	-27.18	peak	P	

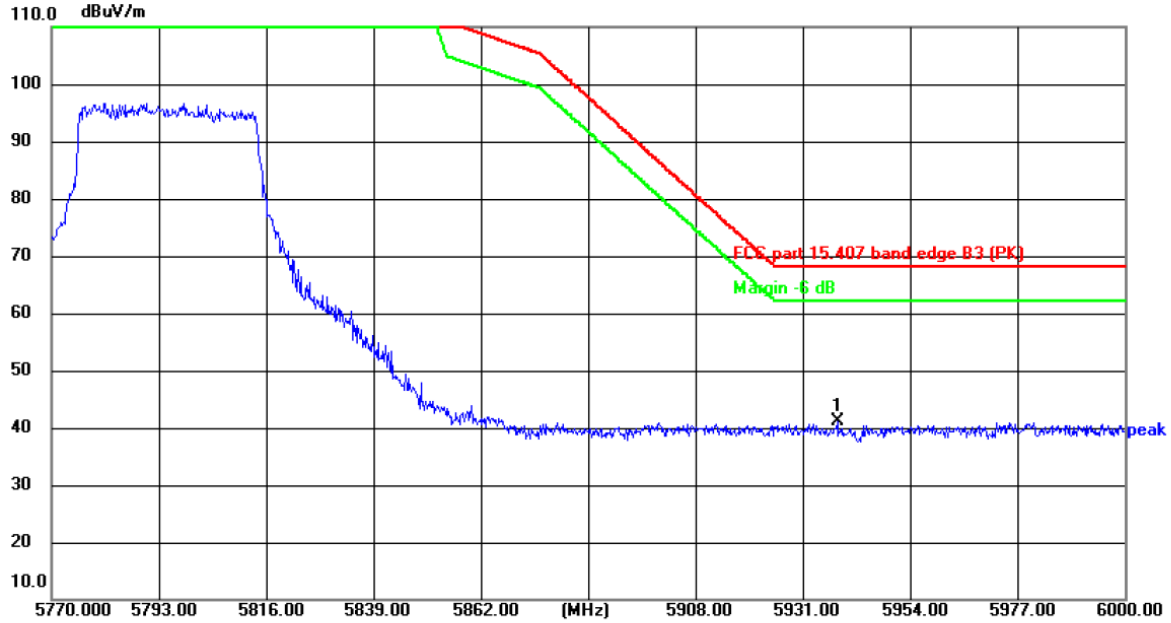


Site: 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 23.5(℃) Humidity: 47 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 5 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5932.173	47.09	-5.78	41.31	68.20	-26.89	peak	P	

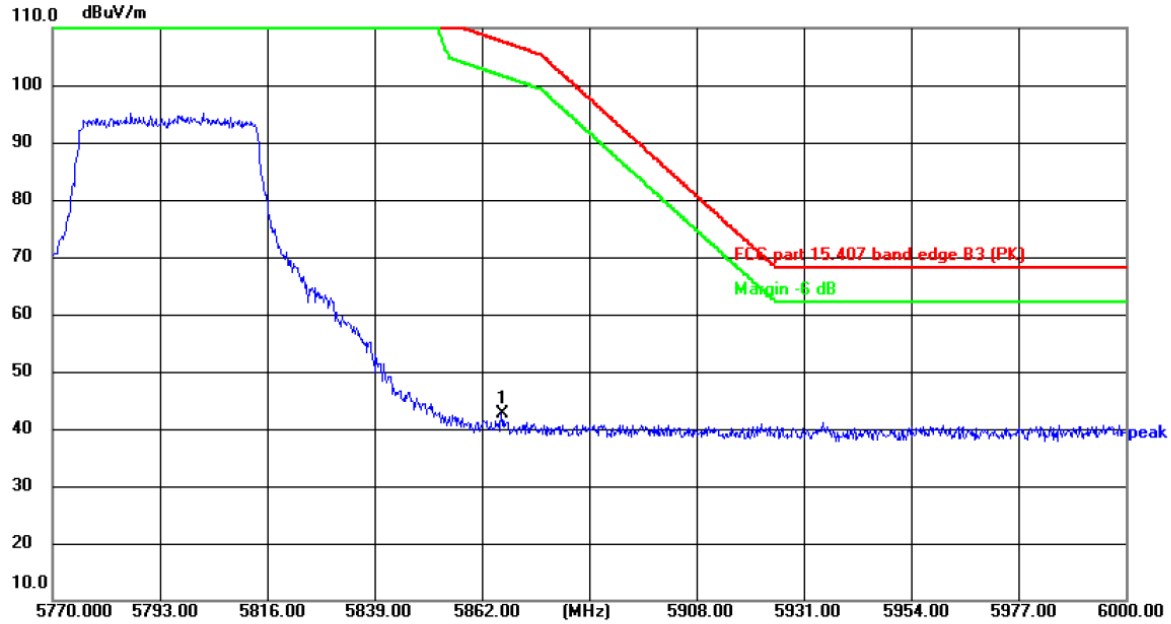
AC40-5795



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

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 5 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5938.383	46.76	-5.75	41.01	68.20	-27.19	peak	P	



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

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 5 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5866.232	48.78	-6.08	42.70	107.66	-64.96	peak	P	

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

5.8. Unwanted Emissions

5.8.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205
Test Method:	KDB 789033 D02 v02r01
Frequency Range:	9kHz to 40GHz
Measurement Distance:	3 m
Antenna Polarization:	Horizontal & Vertical
Operation mode:	Transmitting mode with modulation
Receiver Setup:	

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

Limit:

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:

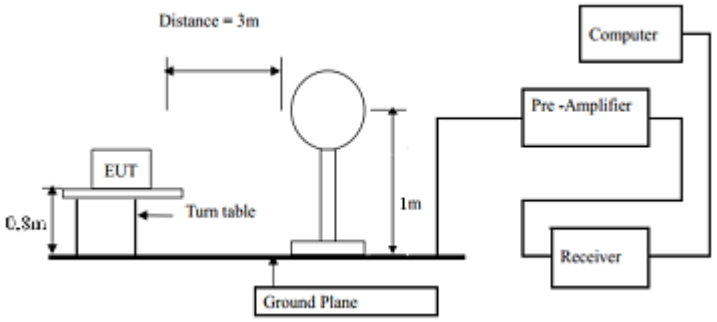
Frequency	Detector	Limit@3m
Above 1G	Peak	74dBμV/m
	AVG	54dBμV/m

Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.49 -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

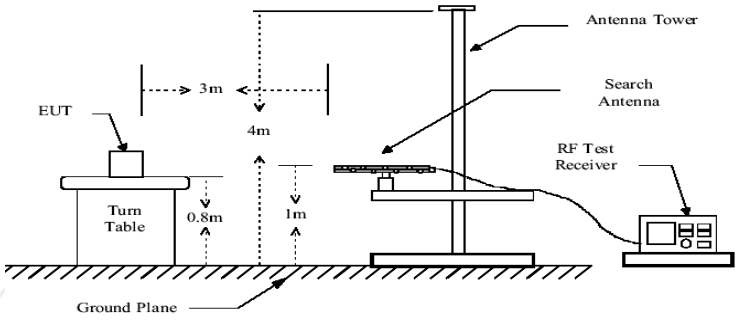
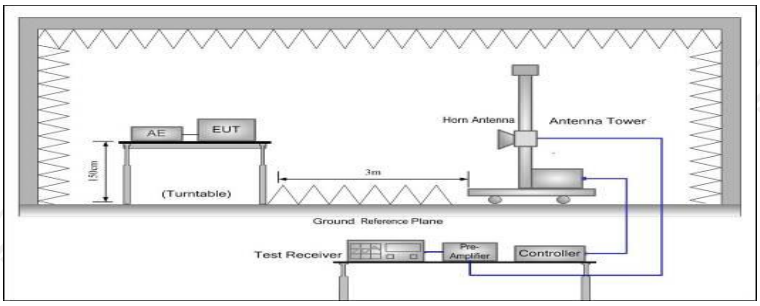
In un-restricted bands: 68.2dBuV/m

Test setup:

For radiated emissions below 30MHz



30MHz to 1GHz

	 Above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas 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 thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet.
Test results:	PASS

5.8.2. Test Instruments

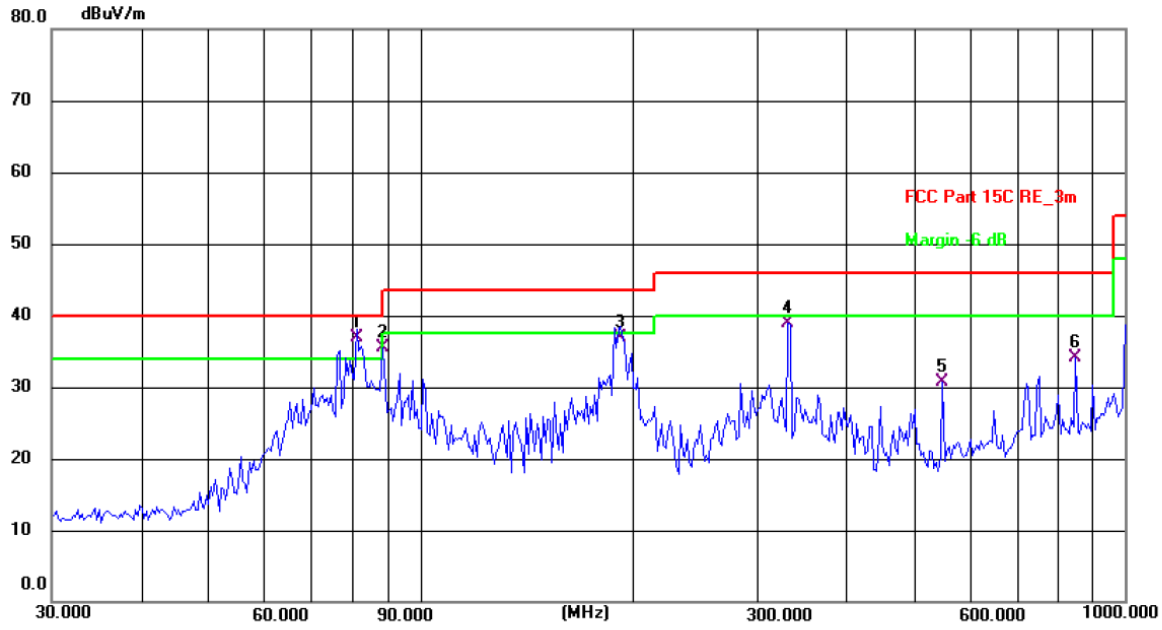
Radiated Emission Test Site (966)					
Equipment	**Manufacturer**	**Model**	**Serial Number**	**Date of Cal.**	**Due Date**
EMI Test Receiver	R&S	ESCI7	100529	Jan. 21, 2025	Jan. 20, 2026
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 27, 2024	Jun. 26, 2025
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Jan.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

5.8.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:

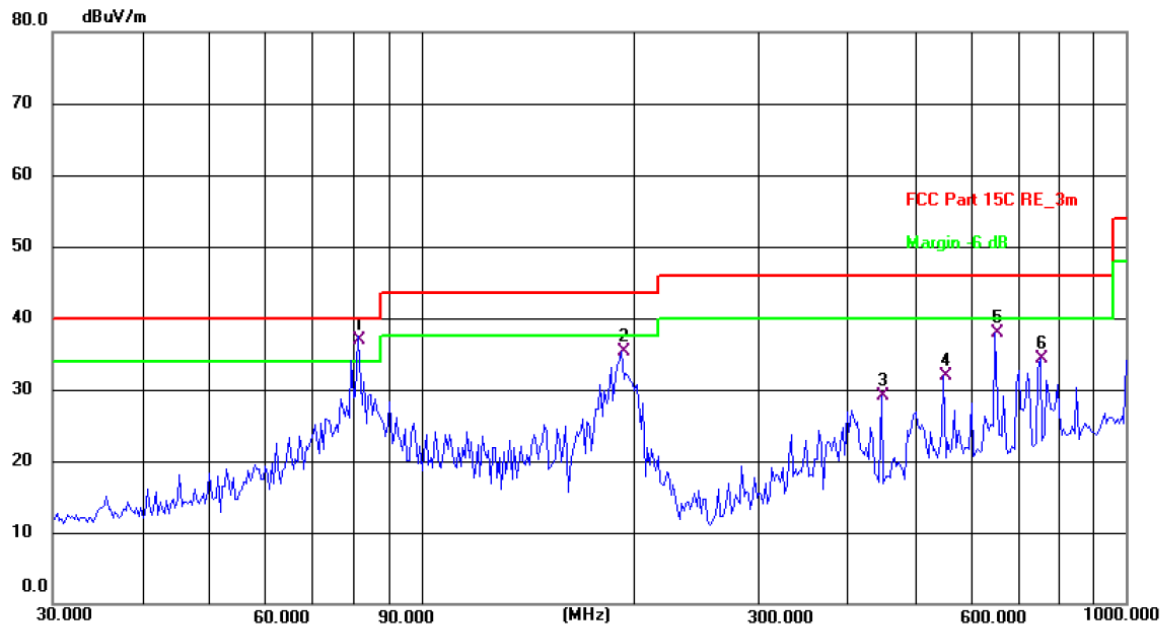


Site: 3m Anechoic Chamber1 Polarization: ***Horizontal*** Temperature: 24.0(C) Humidity: 51 %

Limit: FCC Part 15C RE_3m Power: DC 5 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	81.2116	53.12	-16.21	36.91	40.00	-3.09	QP	P	
2	88.3421	52.14	-16.67	35.47	43.50	-8.03	QP	P	
3	192.4183	51.21	-14.33	36.88	43.50	-6.62	QP	P	
4	332.5187	49.14	-10.33	38.81	46.00	-7.19	QP	P	
5	550.9479	37.34	-6.65	30.69	46.00	-15.31	QP	P	
6	851.0353	36.21	-2.11	34.10	46.00	-11.90	QP	P	

Vertical:



Site: 3m Anechoic Chamber1 Polarization: ***Vertical*** Temperature: 24.0(C) Humidity: 51 %

Limit: FCC Part 15C RE_3m Power: DC 5 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	81.2117	53.21	-16.21	37.00	40.00	-3.00	QP	P	
2	192.4185	49.54	-14.33	35.21	43.50	-8.29	QP	P	
3	449.5558	37.35	-8.30	29.05	46.00	-16.95	QP	P	
4	550.9480	38.54	-6.65	31.89	46.00	-14.11	QP	P	
5	651.9417	41.88	-4.01	37.87	46.00	-8.13	QP	P	
6	755.3873	37.89	-3.51	34.38	46.00	-11.62	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), 802.11ac(VHT20), 802.11ac(VHT40)) and the worst case Mode (Highest channel and 802.11n(HT40)) was submitted only.

3. Measurement (dBμV) = 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	44.73	---	2.48	47.21	---	74	54	-6.79
17235	H	37.58	---	6.50	44.08	---	68.2	---	-24.12
---	H	---	---	---	---	---	---	---	---
11490	V	45.04	---	2.48	47.52	---	74	54	-6.48
17235	V	38.72	---	6.50	45.22	---	68.2	---	-22.98
---	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	43.29	---	2.42	45.71	---	74	54	-8.29
17355	H	38.51	---	7.03	45.54	---	68.2	---	-22.66
---	H	---	---	---	---	---	---	---	---
11570	V	43.32	---	2.42	45.74	---	74	54	-8.26
17355	V	39.18	---	7.03	46.21	---	68.2	---	-21.99
---	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	43.75	---	2.41	46.16	---	74	54	-7.84
17475	H	36.63	---	7.41	44.04	---	68.2	---	-24.16
---	H	---	---	---	---	---	---	---	---
11650	V	43.82	---	2.41	46.23	---	74	54	-7.77
17475	V	38.16	---	7.41	45.57	---	68.2	---	-22.63
---	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	44.39	---	2.48	46.87	---	74	54	-7.13
17235	H	38.71	---	6.50	45.21	---	68.2	---	-22.99
---	H	---	---	---	---	---	---	---	---
11490	V	44.84	---	2.48	47.32	---	74	54	-6.68
17235	V	37.57	---	6.50	44.07	---	68.2	---	-24.13
---	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	44.13	---	2.42	46.55	---	74	54	-7.45
17355	H	39.68	---	7.03	46.71	---	68.2	---	-21.49
---	H	---	---	---	---	---	---	---	---
11570	V	44.04	---	2.42	46.46	---	74	54	-7.54
17355	V	39.51	---	7.03	46.54	---	68.2	---	-21.66
---	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	45.69	---	2.41	48.1	---	74	54	-5.9
17475	H	37.03	---	7.41	44.44	---	68.2	---	-23.76
---	H	---	---	---	---	---	---	---	---
11650	V	45.17	---	2.41	47.58	---	74	54	-6.42
17475	V	40.35	---	7.41	47.76	---	68.2	---	-20.44
---	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	44.67	---	2.47	47.14	---	74	54	-6.86
17265	H	37.53	---	6.62	44.15	---	68.2	---	-24.05
---	H	---	---	---	---	---	---	---	---
11510	V	44.79	---	2.47	47.26	---	74	54	-6.74
17265	V	38.06	---	6.62	44.68	---	68.2	---	-23.52
---	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	44.84	---	2.40	47.24	---	74	54	-6.76
17385	H	38.21	---	7.15	45.36	---	68.2	---	-22.84
---	H	---	---	---	---	---	---	---	---
11590	V	44.78	---	2.40	47.18	---	74	54	-6.82
17385	V	37.05	---	7.15	44.2	---	68.2	---	-24
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) 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	44.12	---	2.48	46.6	---	74	54	-7.4
17235	H	37.63	---	6.50	44.13	---	68.2	---	-24.07
---	H	---	---	---	---	---	---	---	---
11490	V	44.04	---	2.48	46.52	---	74	54	-7.48
17235	V	38.11	---	6.50	44.61	---	68.2	---	-23.59
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) 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	43.25	---	2.42	45.67	---	74	54	-8.33
17355	H	36.68	---	7.03	43.71	---	68.2	---	-24.49
---	H	---	---	---	---	---	---	---	---
11570	V	43.07	---	2.42	45.49	---	74	54	-8.51
17355	V	38.39	---	7.03	45.42	---	68.2	---	-22.78
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) 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	44.58	---	2.41	46.99	---	74	54	-7.01
17475	H	38.24	---	7.41	45.65	---	68.2	---	-22.55
---	H	---	---	---	---	---	---	---	---
11650	V	44.93	---	2.41	47.34	---	74	54	-6.66
17475	V	40.24	---	7.41	47.65	---	68.2	---	-20.55
---	V	---	---	---	---	----	---	---	---

11ac(VHT40) 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	44.3	---	2.47	46.77	---	74	54	-7.23
17265	H	37.85	---	6.62	44.47	---	68.2	---	-23.73
---	H	---	---	---	---	---	---	---	---
11510	V	43.02	---	2.47	45.49	---	74	54	-8.51
17265	V	36.81	---	6.62	43.43	---	68.2	---	-24.77
---	V	---	---	---	---	----	---	---	---

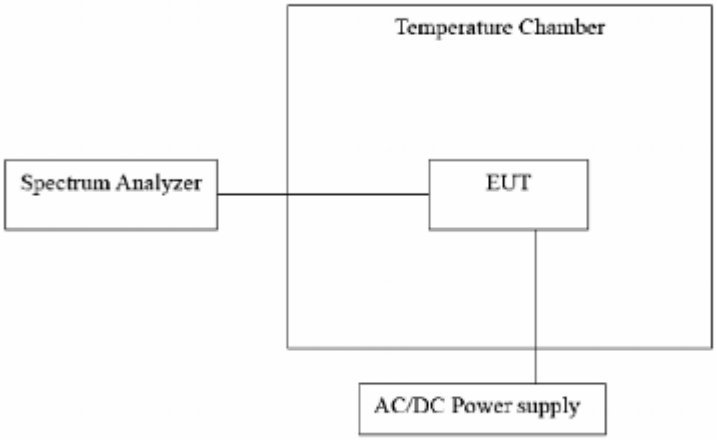
11ac(VHT40) CH159: 5795MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
11590	H	43.72	---	2.40	46.12	---	74	54	-7.88
17385	H	37.08	---	7.15	44.23	---	68.2	---	-23.97
---	H	---	---	---	---	---	---	---	---
11590	V	42.63	---	2.40	45.03	---	74	54	-8.97
17385	V	38.11	---	7.15	45.26	---	68.2	---	-22.94
---	V	---	---	---	---	----	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

5.9. Frequency Stability Measurement

5.9.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
Test Method:	ANSI C63.10:2020
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal 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.
Test Setup:	
Test Procedure:	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.
Test Result:	PASS
Remark:	Pre-scan was performed at all models(11a,11n,11ac), the worst case (11ac) was found and test data was shown in this report.

5.9.2. Test Instruments

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

Test plots as follows:

Test mode:	802.11ac(HT20)	Frequency(MHz):	5745
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5745	0	PASS
35		5745	0	PASS
25		5745.02	20000	PASS
15		5745.02	20000	PASS
5		5745	0	PASS
0		5745	0	PASS
25	5.5V	5745	0	PASS
	5V	5745	0	PASS
	4.5V	5745	0	PASS

Test mode:	802.11ac(HT20)	Frequency(MHz):	5785
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5784.98	-20000	PASS
35		5785.02	20000	PASS
25		5785	0	PASS
15		5785.02	20000	PASS
5		5785	0	PASS
0		5785.02	20000	PASS
25	5.5V	5785.02	20000	PASS
	5V	5785	0	PASS
	4.5V	5785	0	PASS

Test mode:	802.11ac(HT20)	Frequency(MHz):	5825
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5824.98	-20000	PASS
35		5824.98	-20000	PASS
25		5825	0	PASS
15		5824.98	-20000	PASS
5		5825.02	20000	PASS
0		5825.02	20000	PASS
25	5.5V	5825	0	PASS
	5V	5825	0	PASS
	4.5V	5825	0	PASS

Test mode:	802.11ac(HT40)	Frequency(MHz):	5755	
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5755	0	PASS
35		5755	0	PASS
25		5755	0	PASS
15		5755	0	PASS
5		5755.04	40000	PASS
0		5755	0	PASS
25	5.5V	5755.04	40000	PASS
	5V	5755	0	PASS
	4.5V	5755	0	PASS

Test mode:	802.11ac(HT40)	Frequency(MHz):	5795	
Temperature (°C)	Voltage(V_{DC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	5V	5795	0	PASS
35		5795	0	PASS
25		5795	0	PASS
15		5795	0	PASS
5		5795	0	PASS
0		5794.96	-40000	PASS
25	5.5V	5795.04	40000	PASS
	5V	5795	0	PASS
	4.5V	5795	0	PASS

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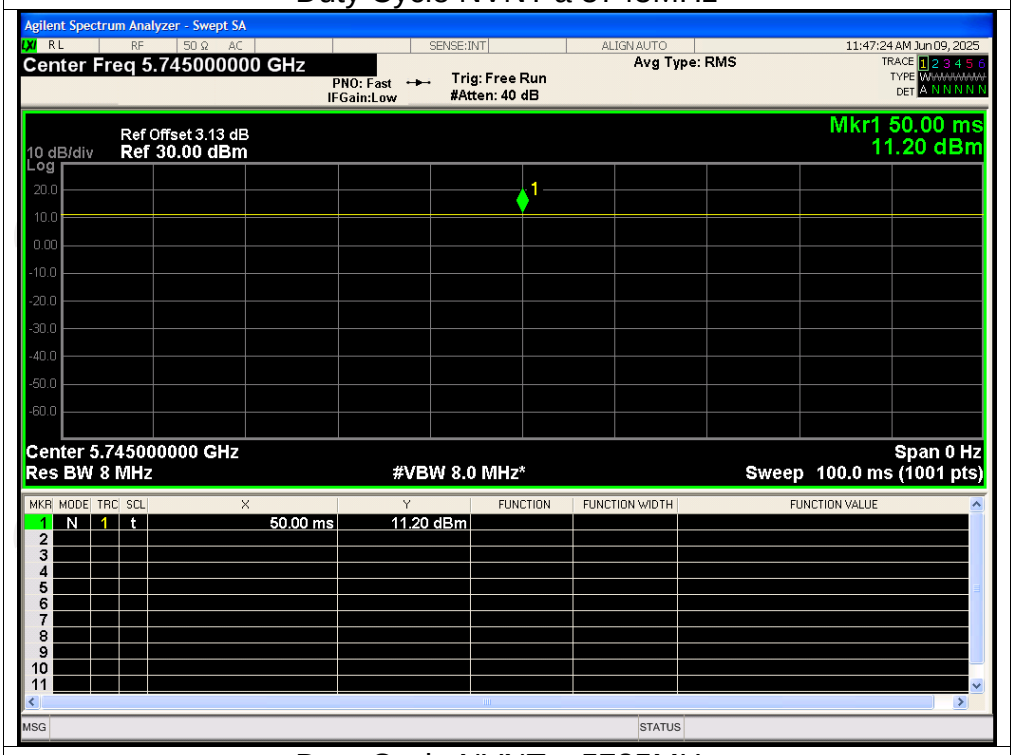
Appendix A: Test Result of Conducted Test

Duty Cycle

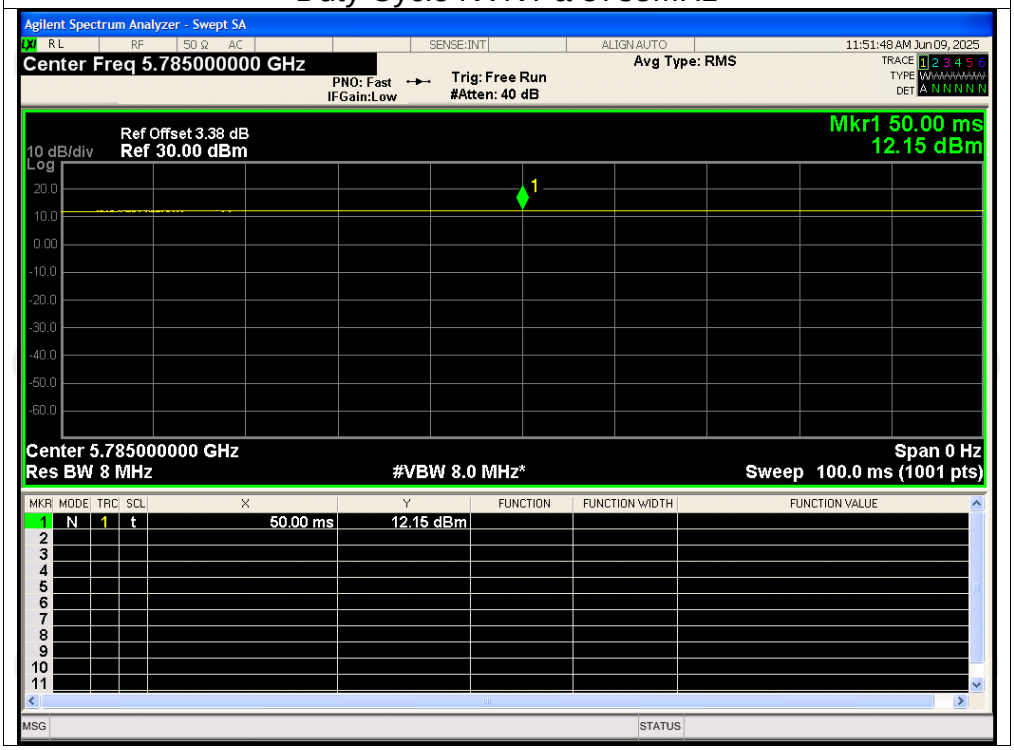
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	100	0
NVNT	a	5785	100	0
NVNT	a	5825	100	0
NVNT	n20	5745	100	0
NVNT	n20	5785	100	0
NVNT	n20	5825	100	0
NVNT	n40	5755	100	0
NVNT	n40	5795	100	0
NVNT	ac20	5745	100	0
NVNT	ac20	5785	100	0
NVNT	ac20	5825	100	0
NVNT	ac40	5755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

Test Graphs

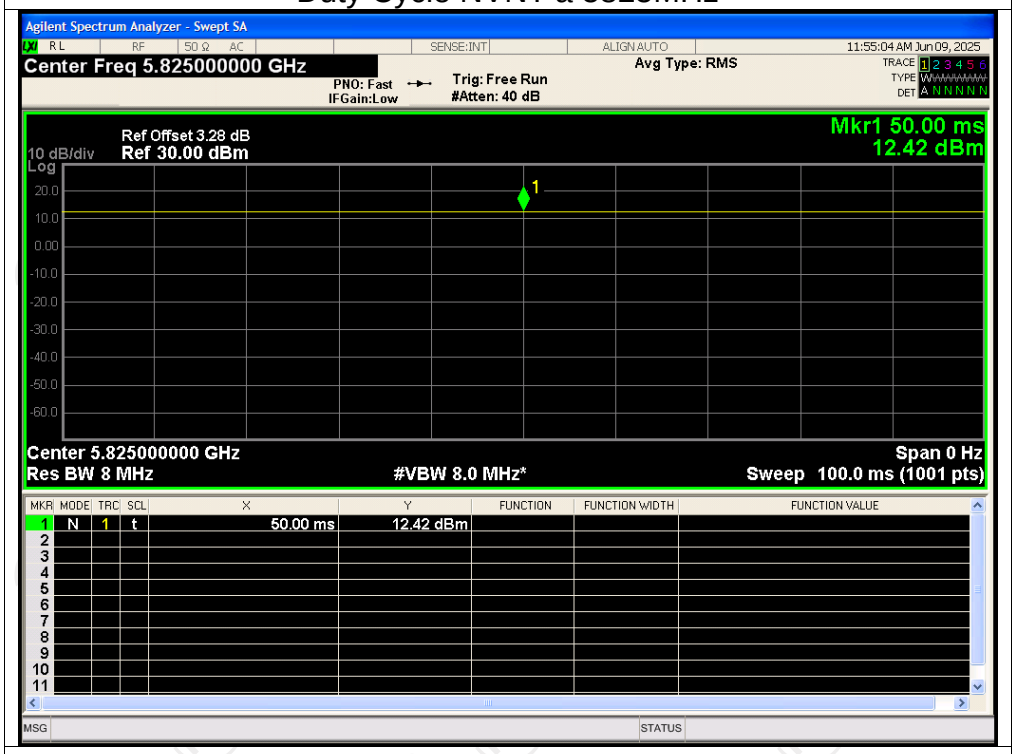
Duty Cycle NVNT a 5745MHz



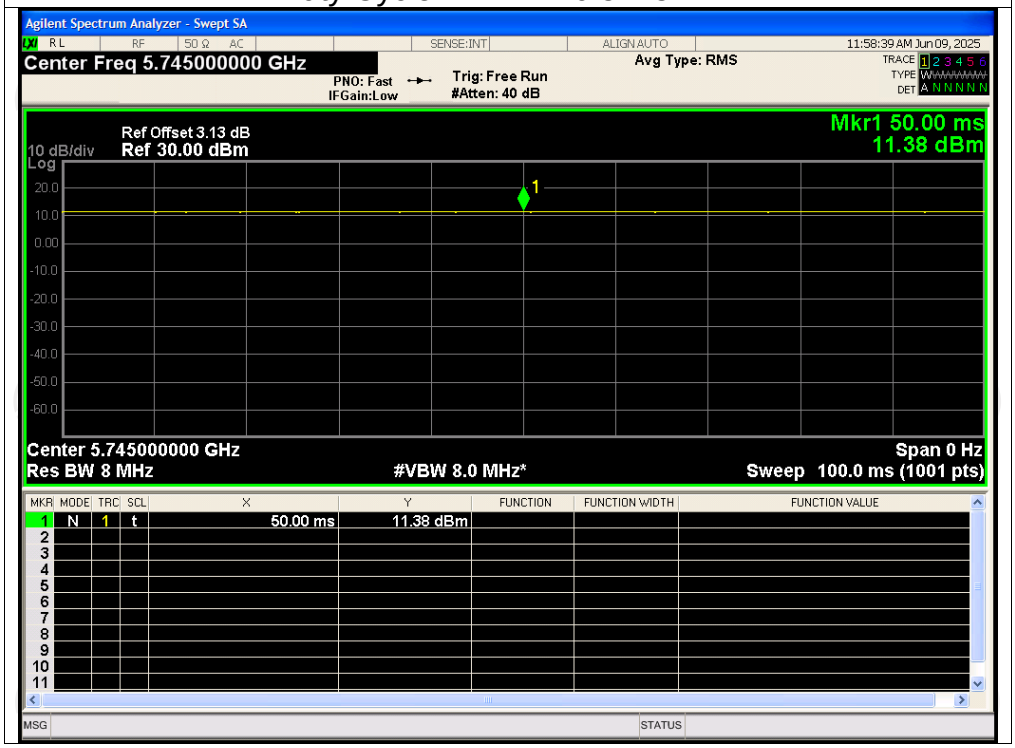
Duty Cycle NVNT a 5785MHz



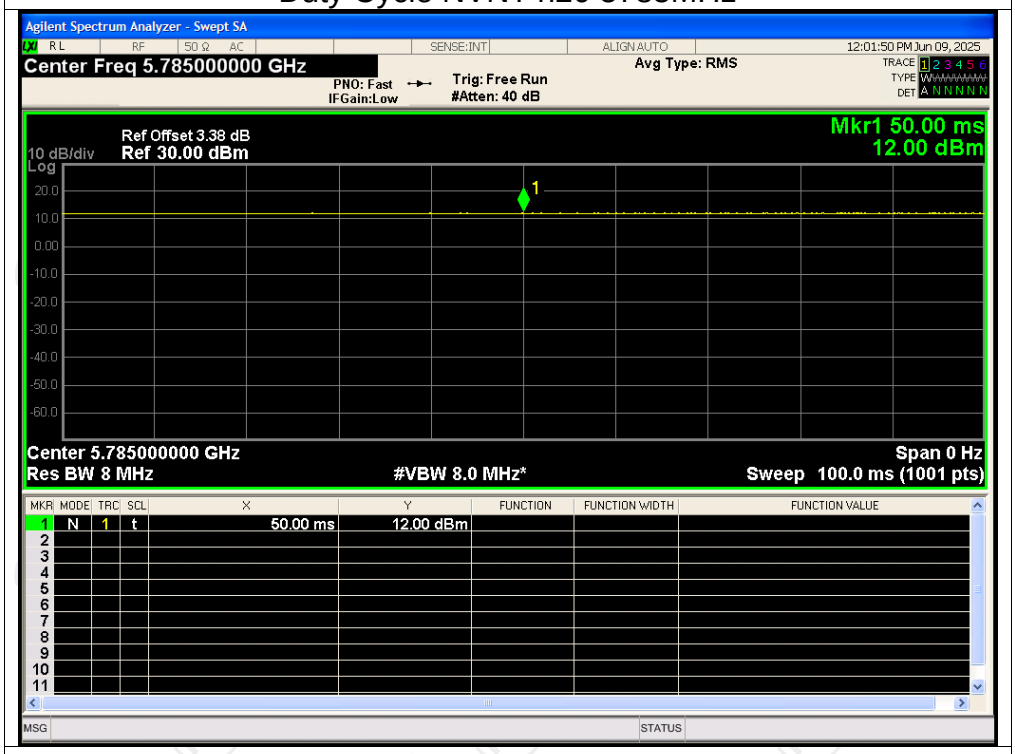
Duty Cycle NVNT a 5825MHz



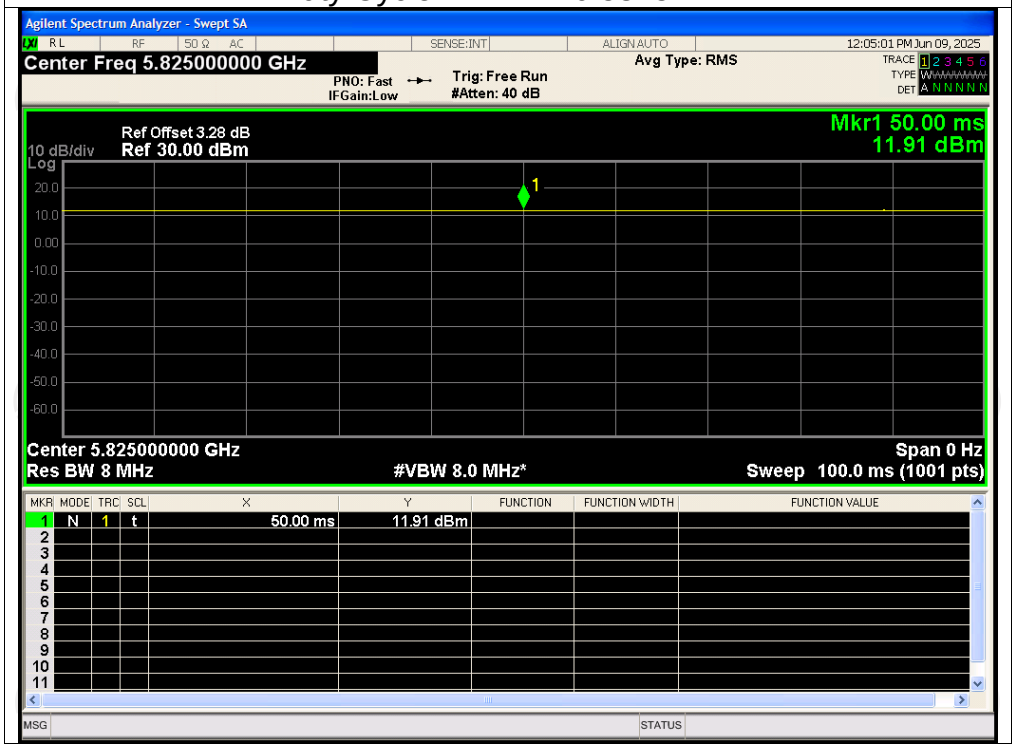
Duty Cycle NVNT n20 5745MHz



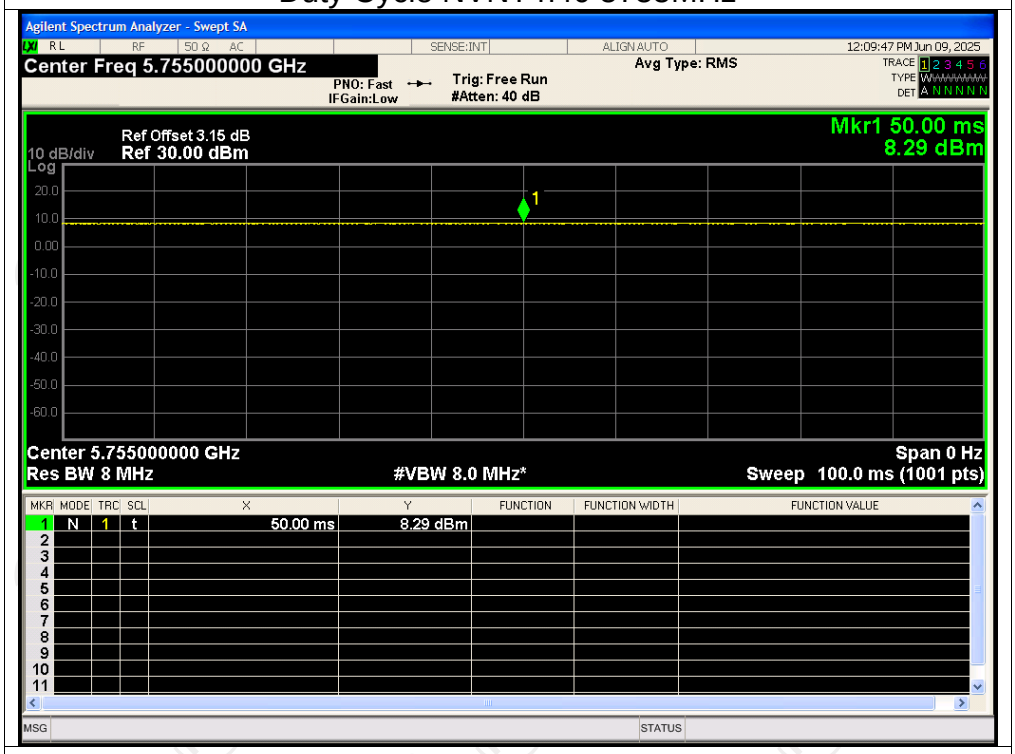
Duty Cycle NVNT n20 5785MHz



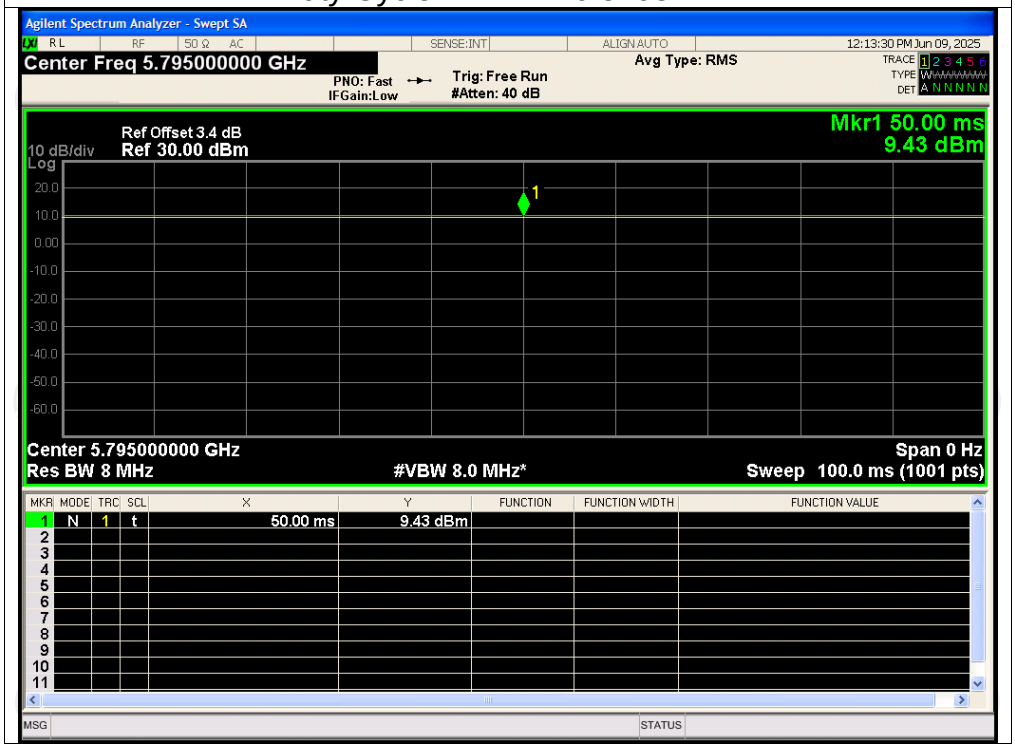
Duty Cycle NVNT n20 5825MHz



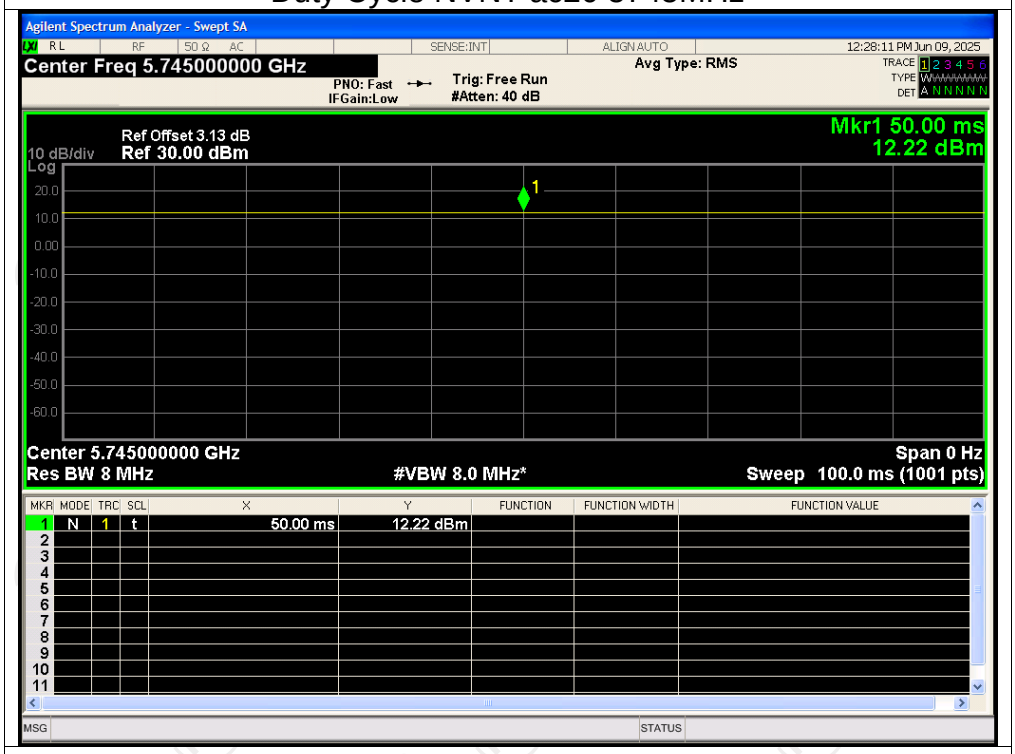
Duty Cycle NVNT n40 5755MHz



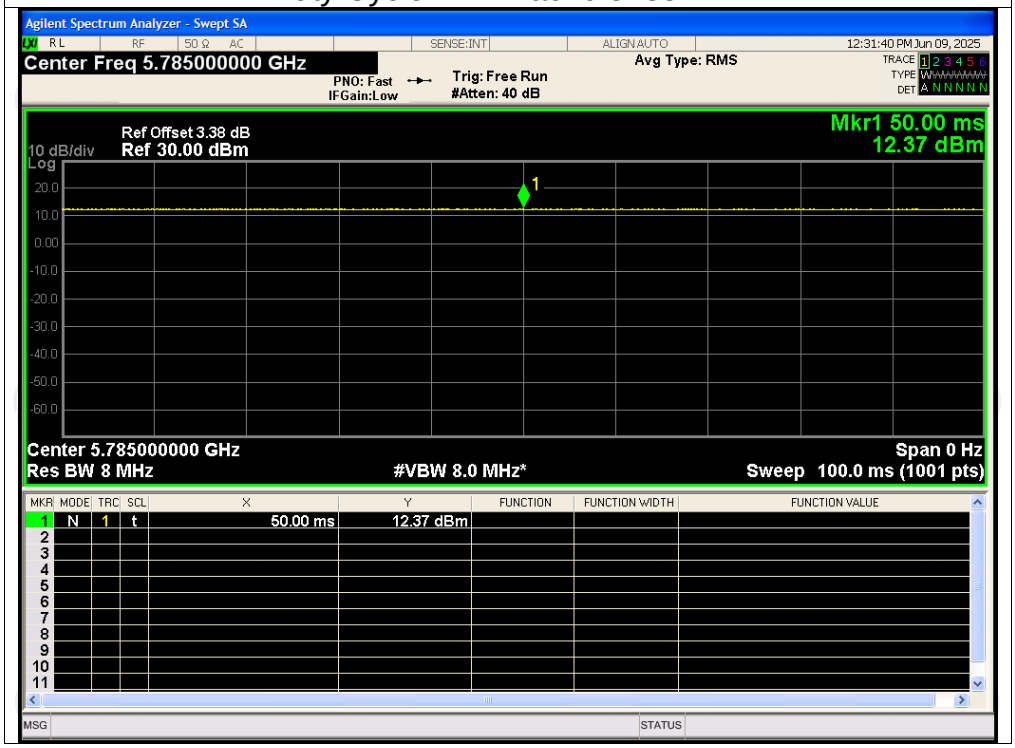
Duty Cycle NVNT n40 5795MHz



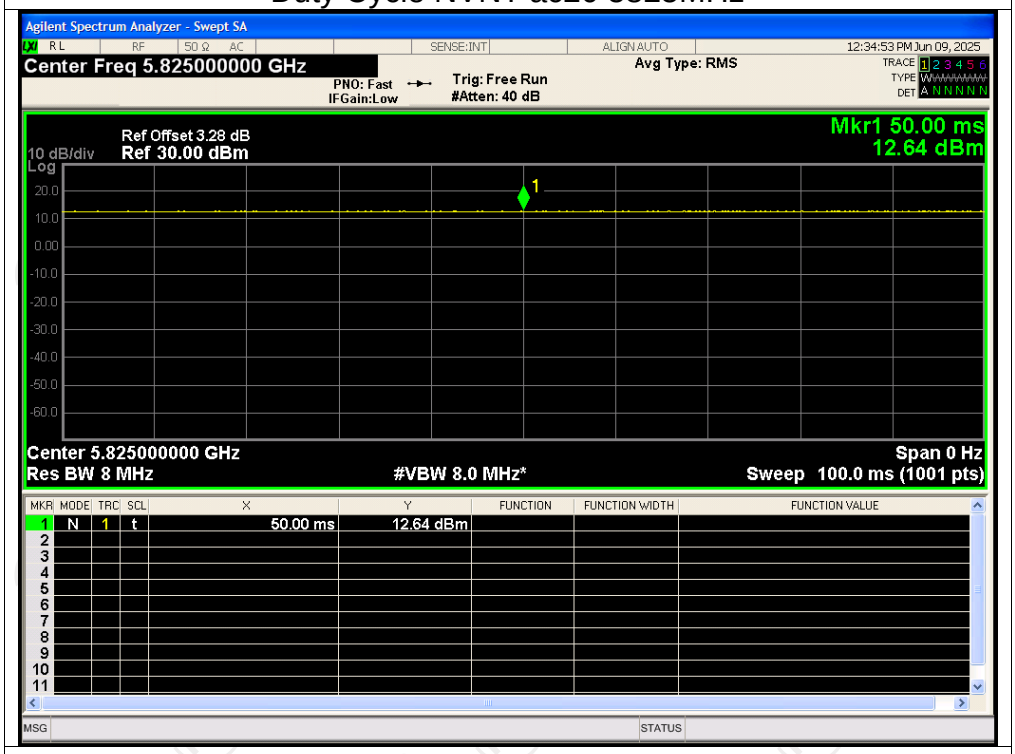
Duty Cycle NVNT ac20 5745MHz



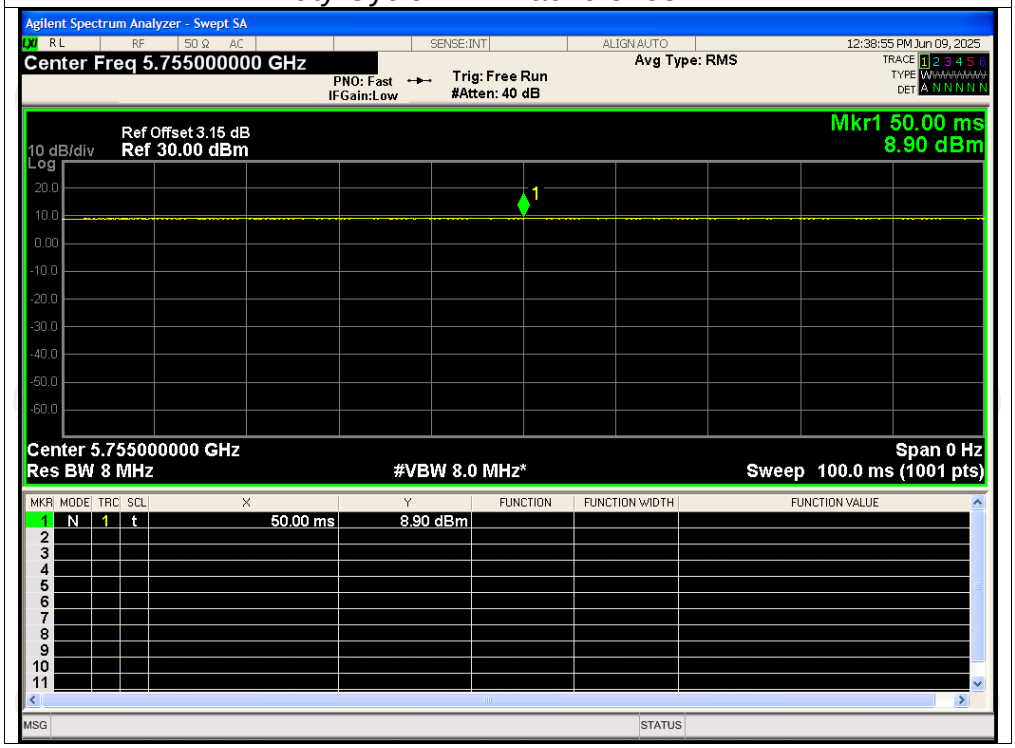
Duty Cycle NVNT ac20 5785MHz



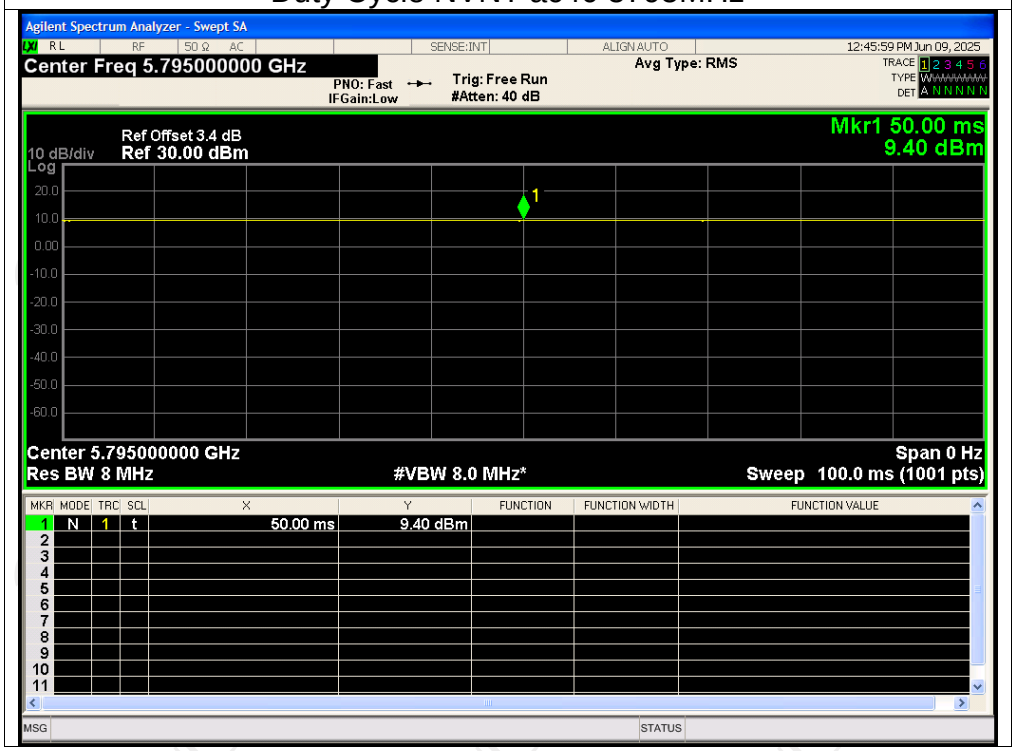
Duty Cycle NVNT ac20 5825MHz



Duty Cycle NVNT ac40 5755MHz



Duty Cycle NVNT ac40 5795MHz

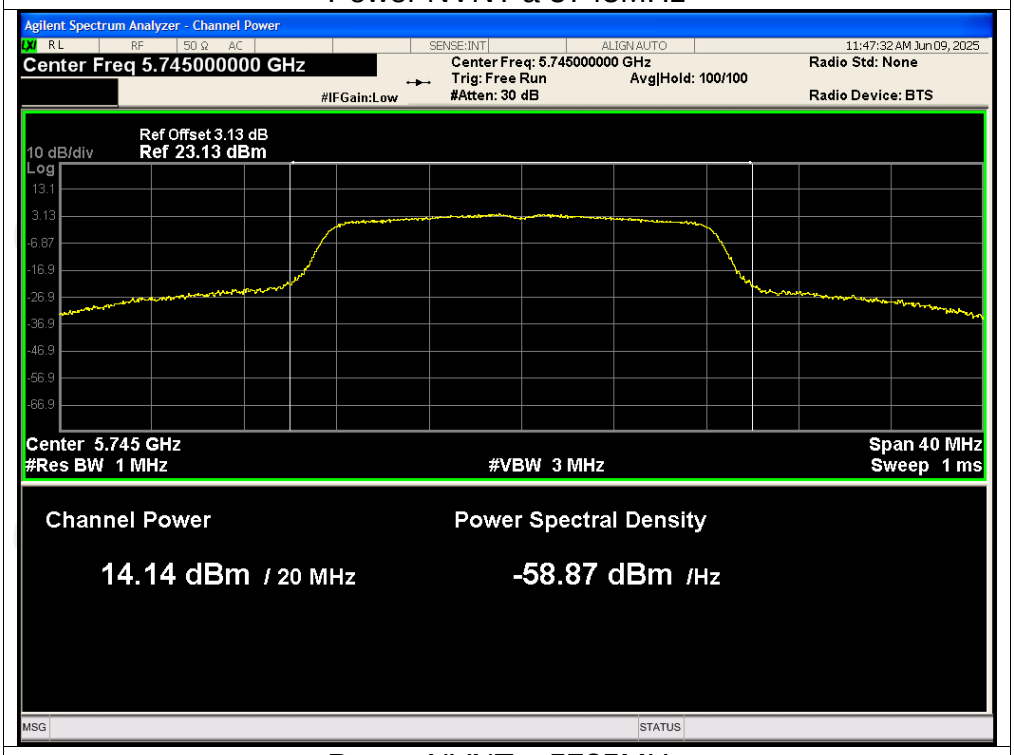


Maximum Conducted Output Power

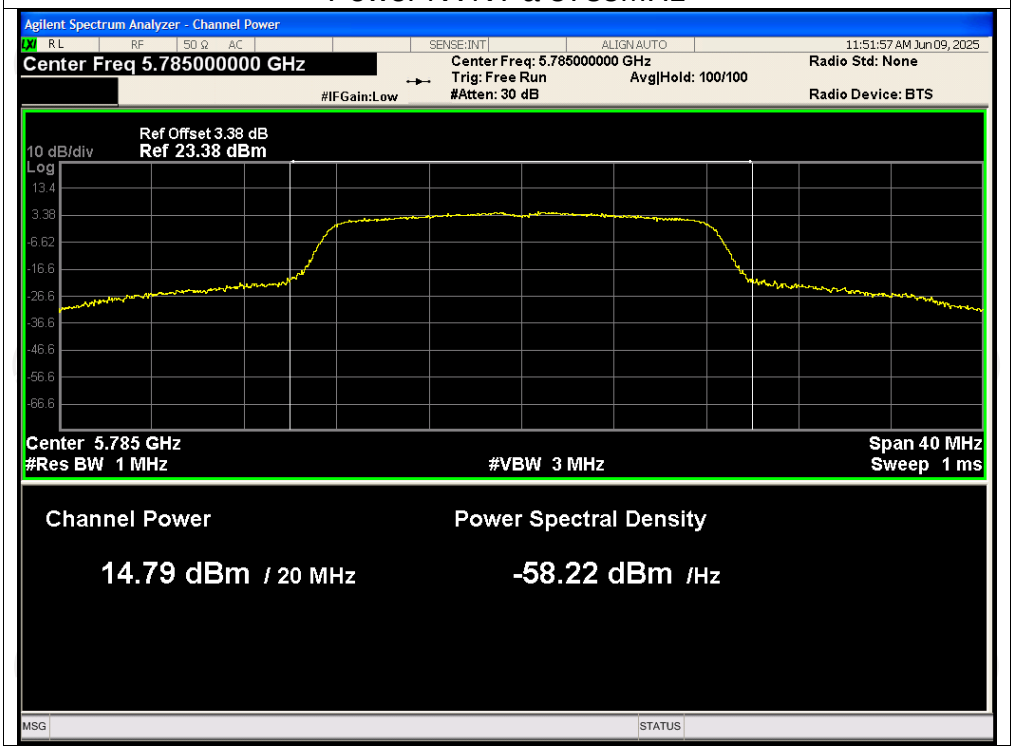
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	14.14	30	Pass
NVNT	a	5785	14.79	30	Pass
NVNT	a	5825	14.95	30	Pass
NVNT	n20	5745	14.35	30	Pass
NVNT	n20	5785	14.78	30	Pass
NVNT	n20	5825	14.95	30	Pass
NVNT	n40	5755	15.27	30	Pass
NVNT	n40	5795	15.88	30	Pass
NVNT	ac20	5745	15.12	30	Pass
NVNT	ac20	5785	15.22	30	Pass
NVNT	ac20	5825	15.37	30	Pass
NVNT	ac40	5755	15.71	30	Pass
NVNT	ac40	5795	15.79	30	Pass

Test Graphs

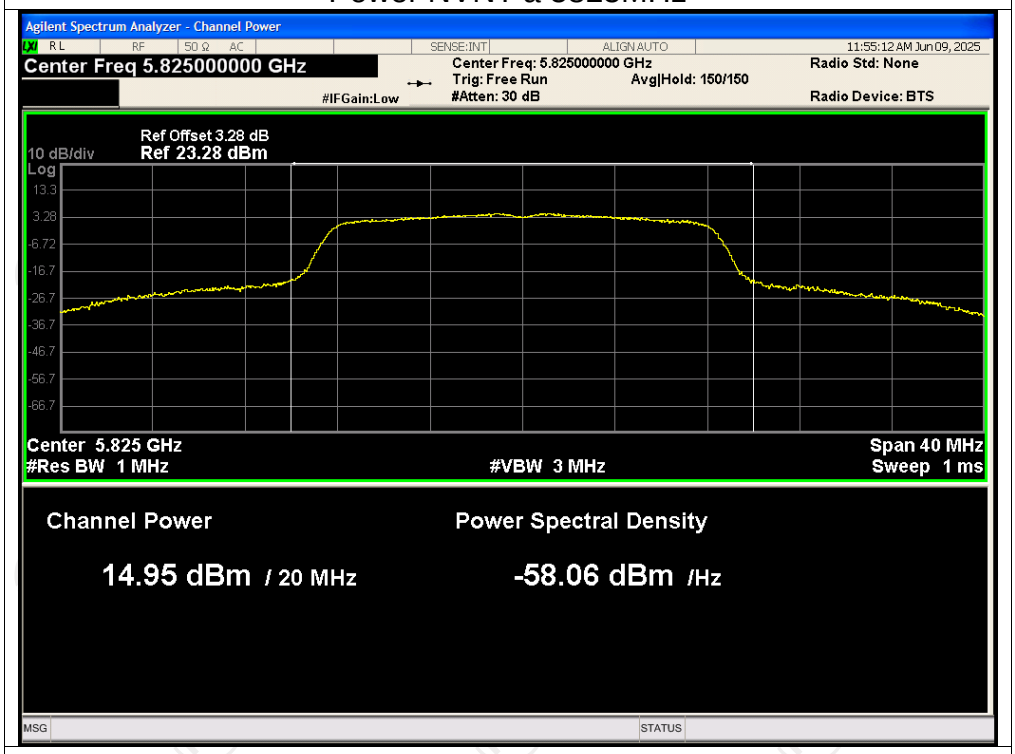
Power NVNT a 5745MHz



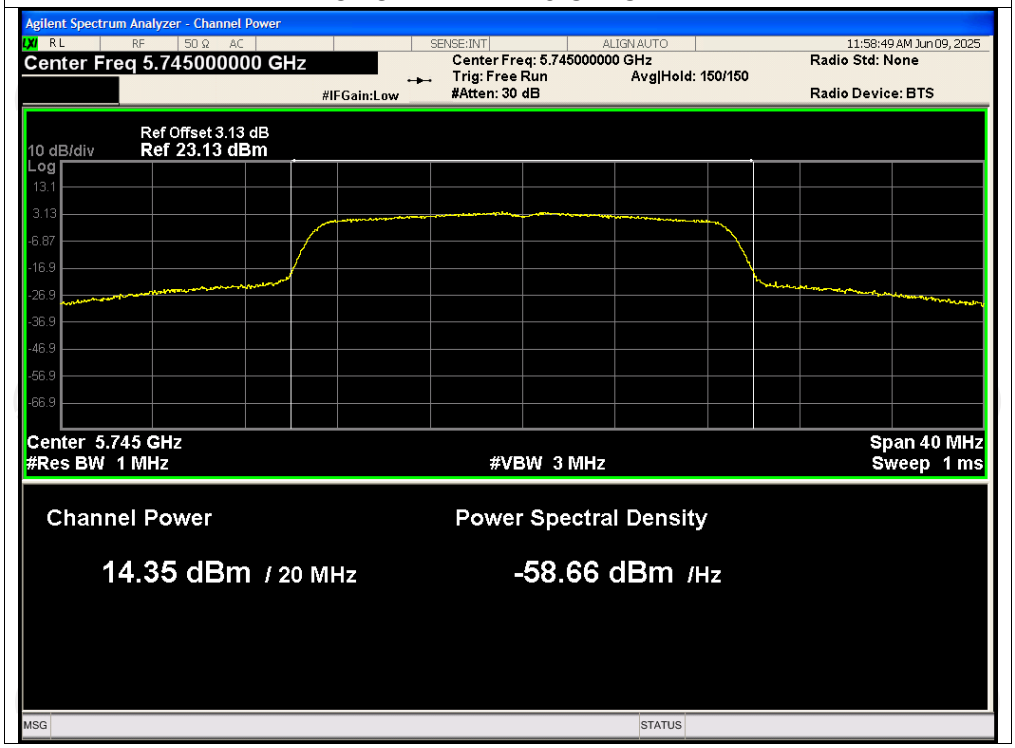
Power NVNT a 5785MHz



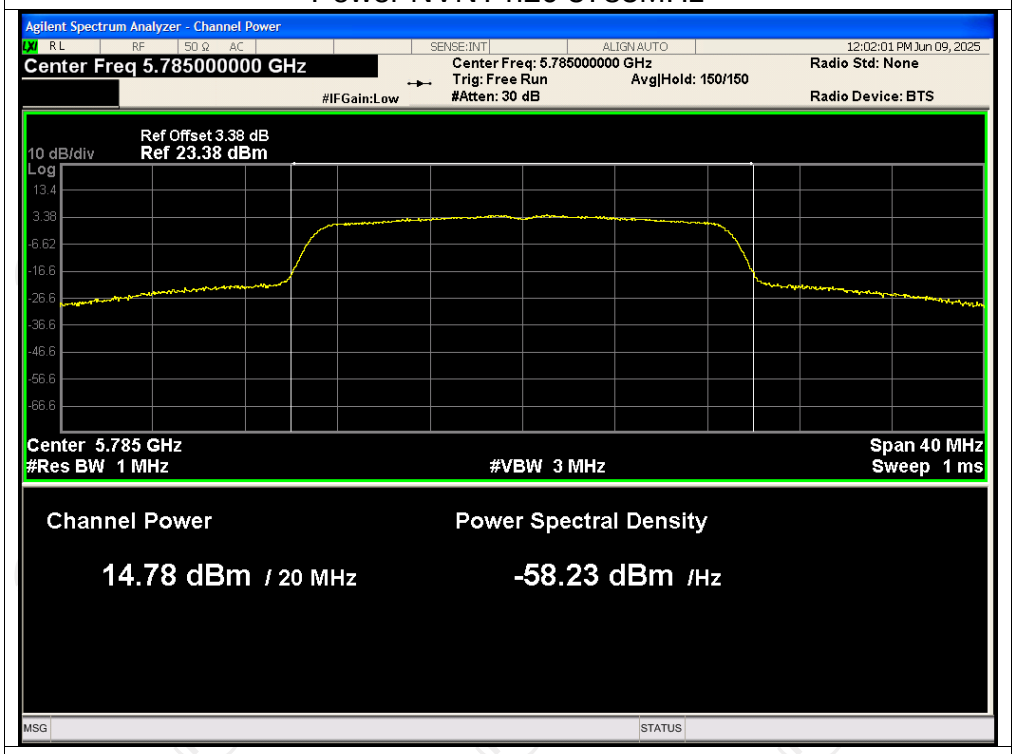
Power NVNT a 5825MHz



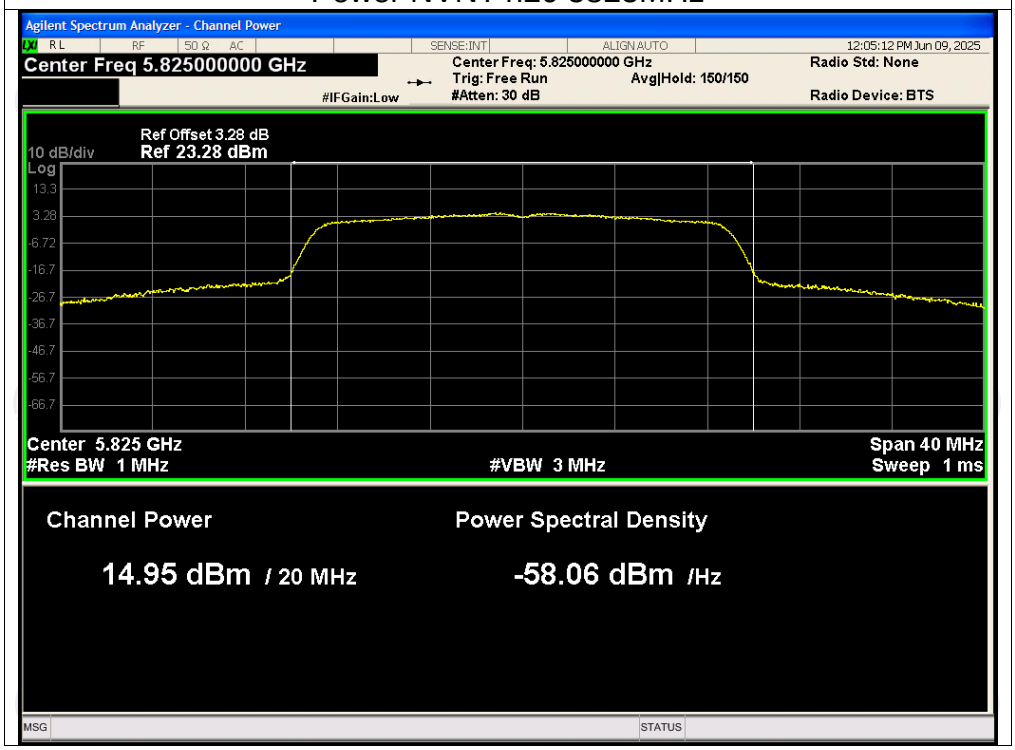
Power NVNT n20 5745MHz



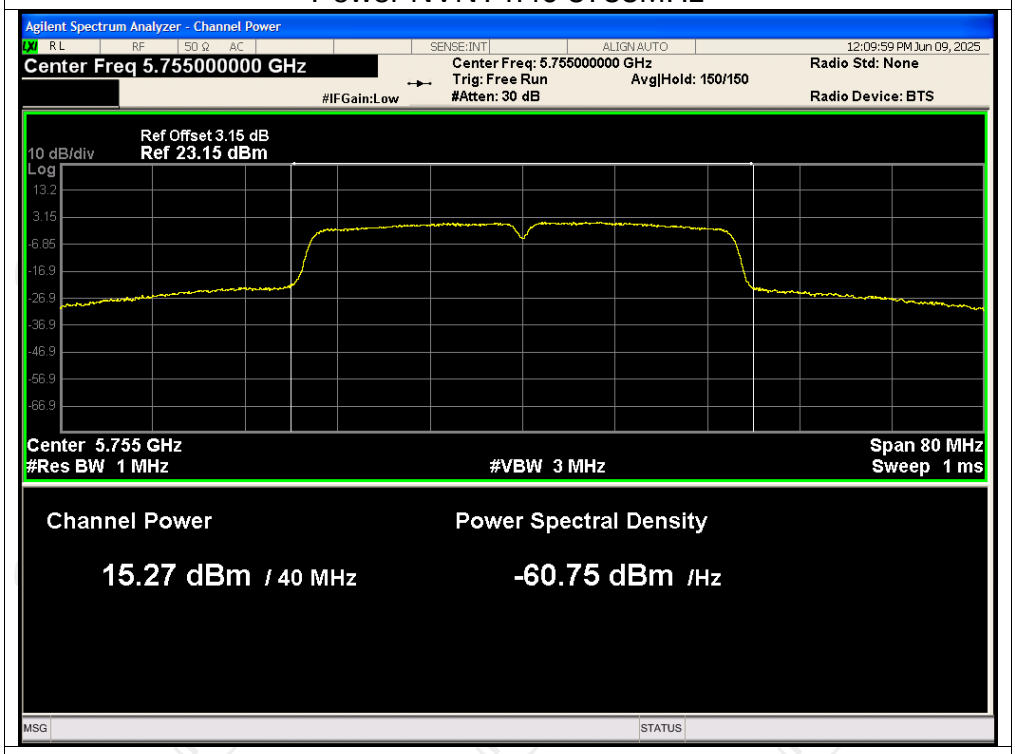
Power NVNT n20 5785MHz



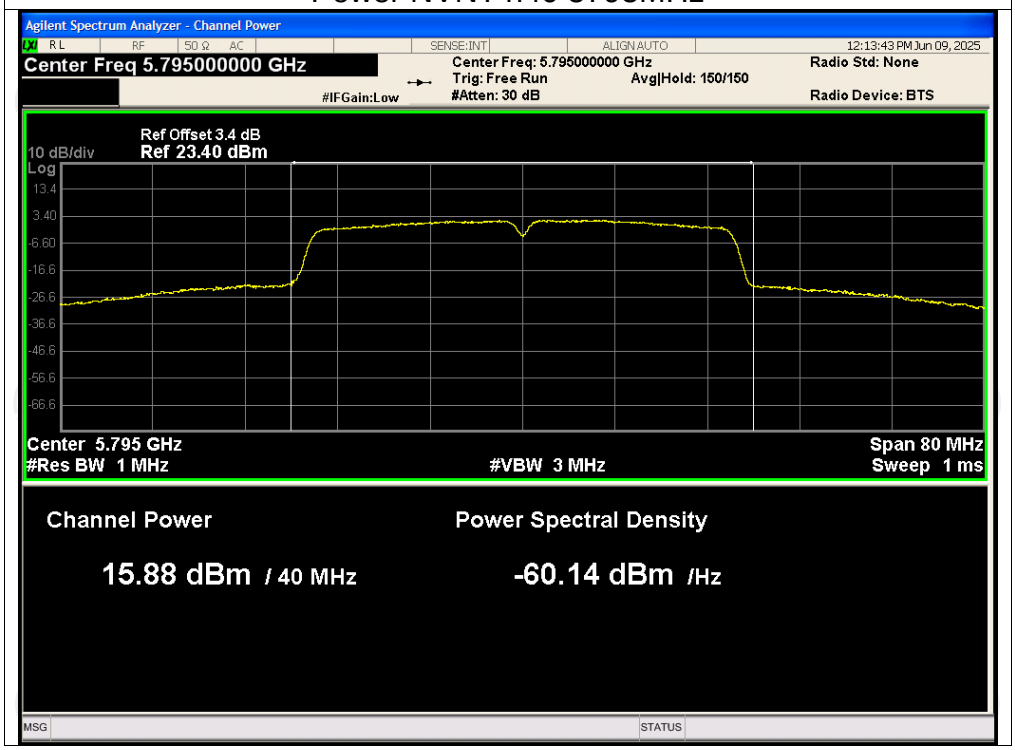
Power NVNT n20 5825MHz



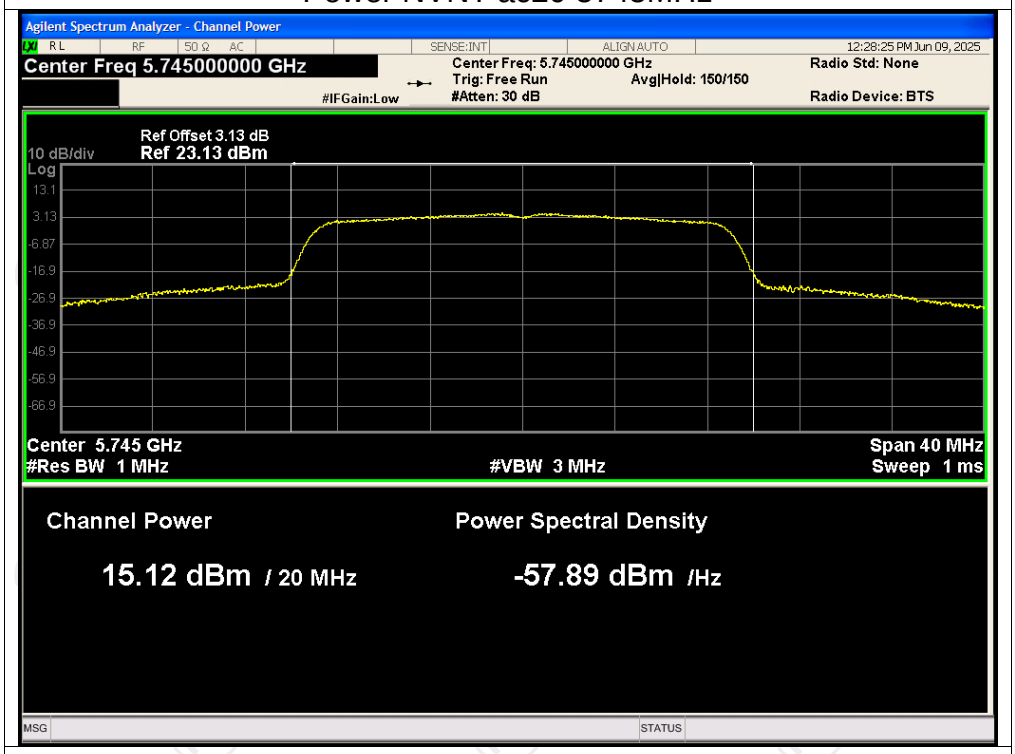
Power NVNT n40 5755MHz



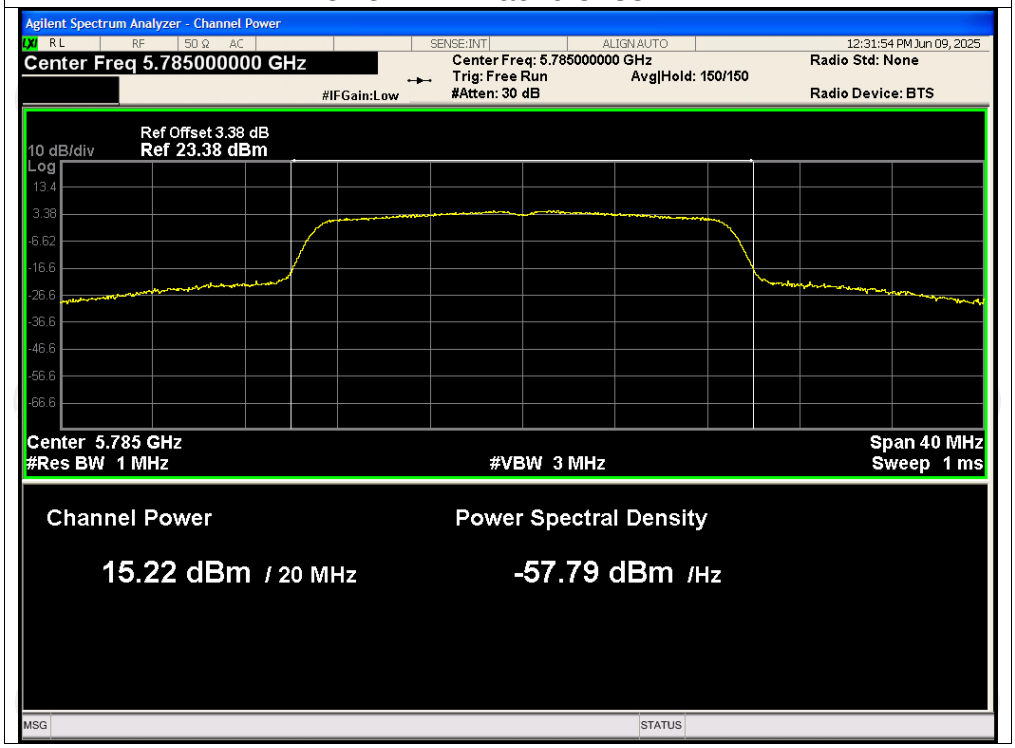
Power NVNT n40 5795MHz



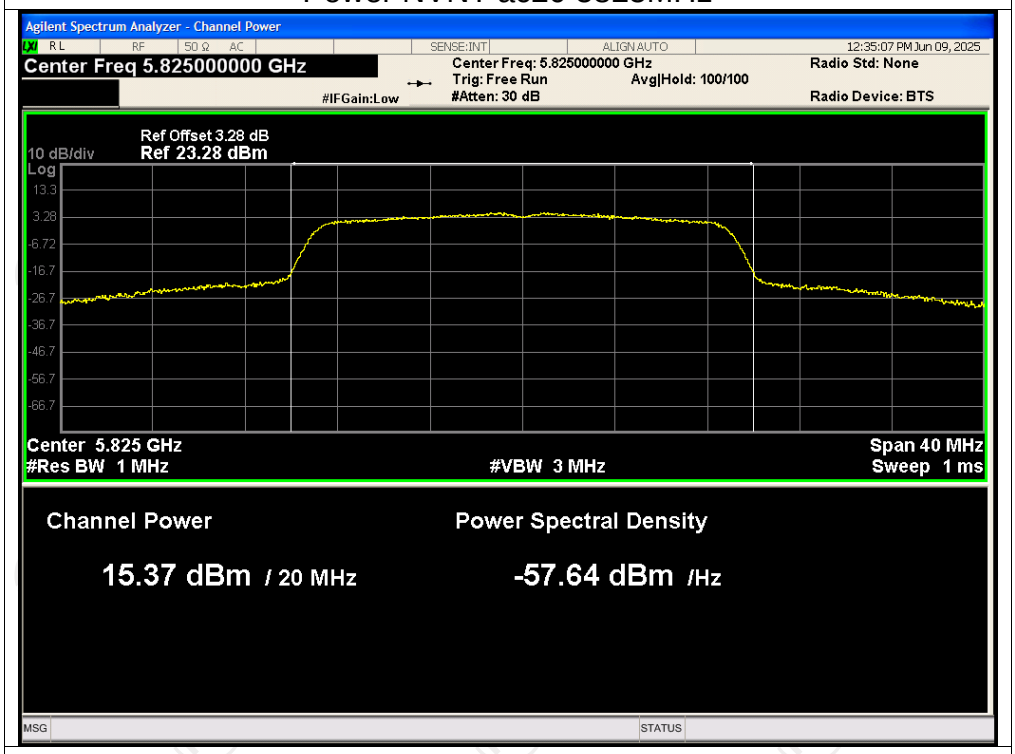
Power NVNT ac20 5745MHz



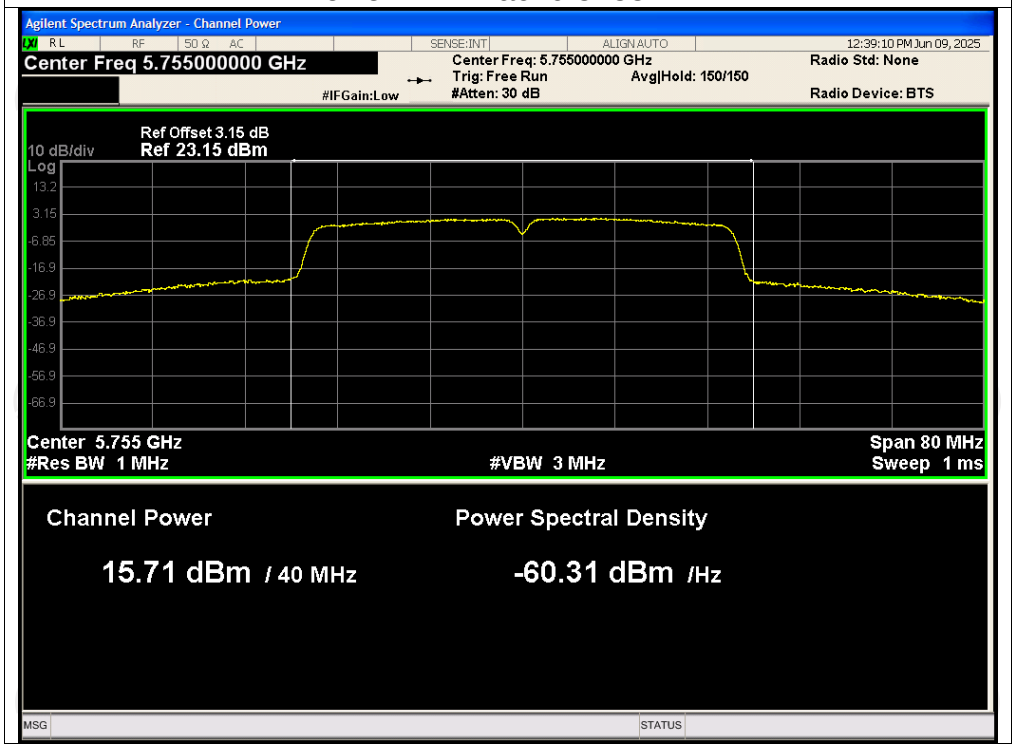
Power NVNT ac20 5785MHz



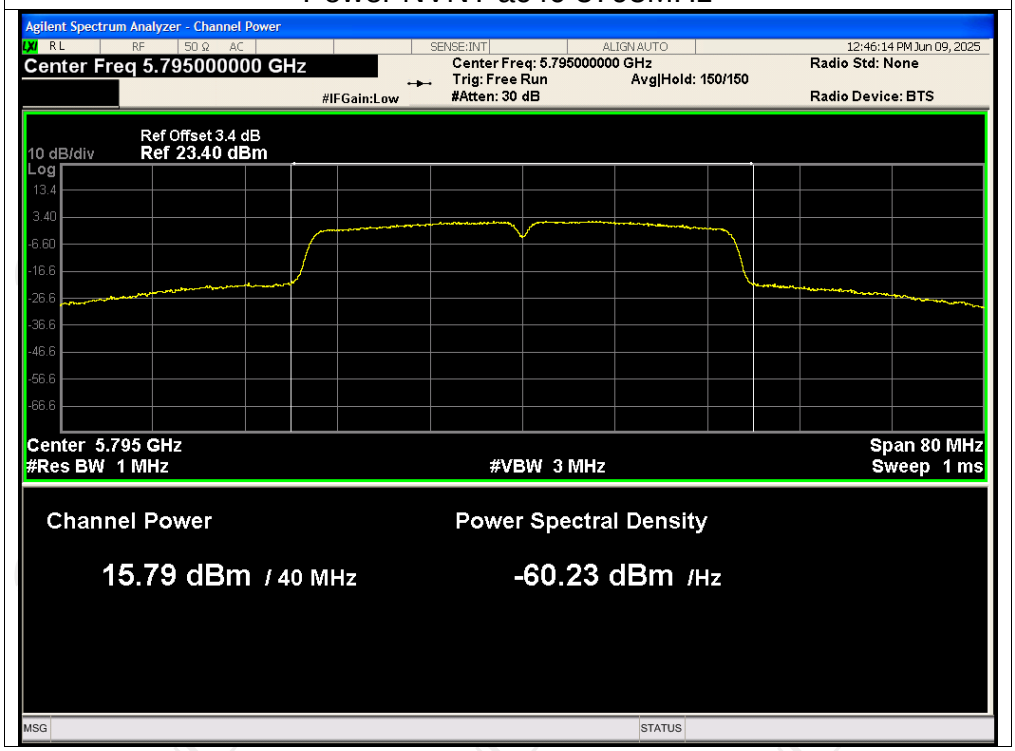
Power NVNT ac20 5825MHz



Power NVNT ac40 5755MHz



Power NVNT ac40 5795MHz

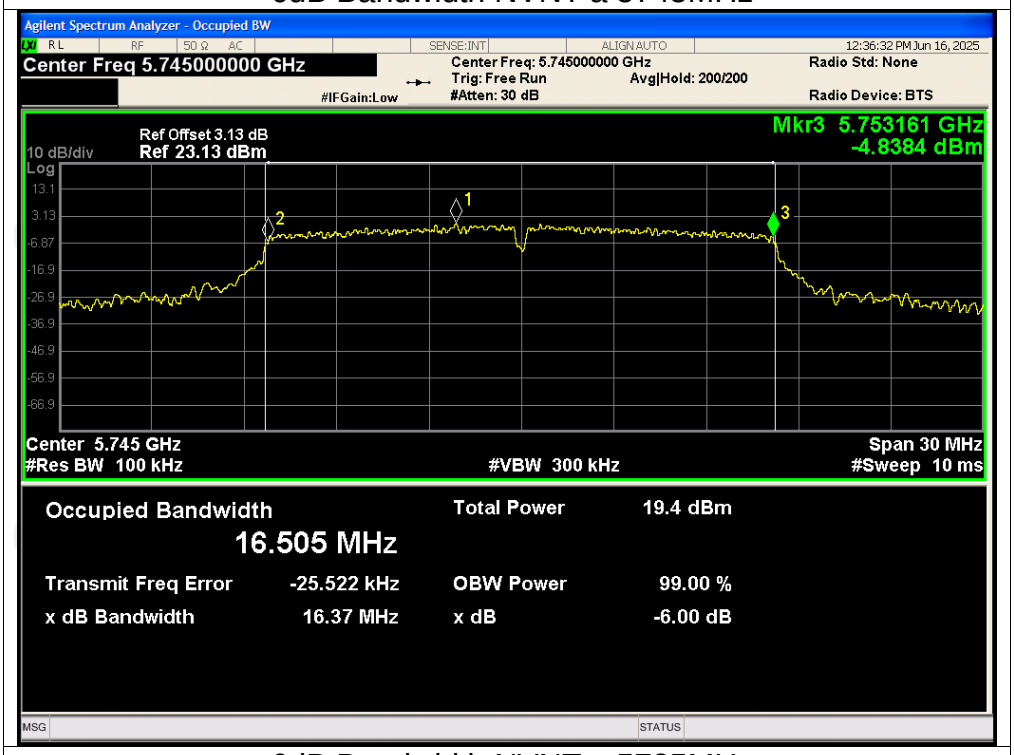


-6dB Bandwidth

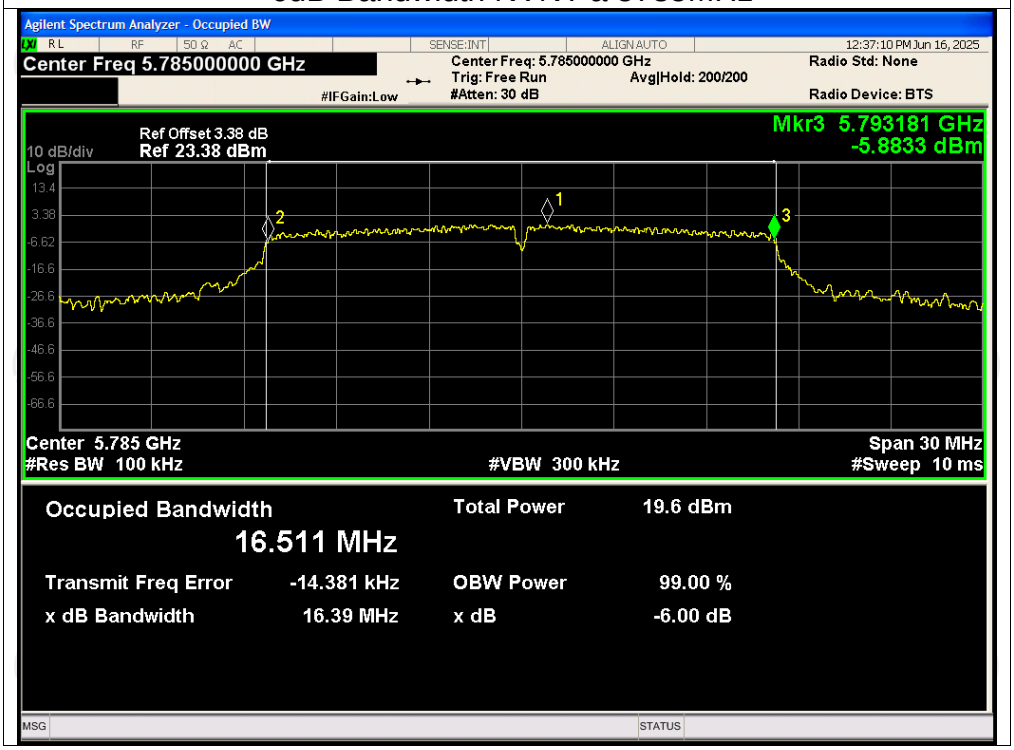
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	16.373	0.5	Pass
NVNT	a	5785	16.392	0.5	Pass
NVNT	a	5825	16.378	0.5	Pass
NVNT	n20	5745	17.625	0.5	Pass
NVNT	n20	5785	17.625	0.5	Pass
NVNT	n20	5825	17.616	0.5	Pass
NVNT	n40	5755	36.389	0.5	Pass
NVNT	n40	5795	36.383	0.5	Pass
NVNT	ac20	5745	17.600	0.5	Pass
NVNT	ac20	5785	17.631	0.5	Pass
NVNT	ac20	5825	17.616	0.5	Pass
NVNT	ac40	5755	36.410	0.5	Pass
NVNT	ac40	5795	36.362	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT a 5745MHz



-6dB Bandwidth NVNT a 5785MHz



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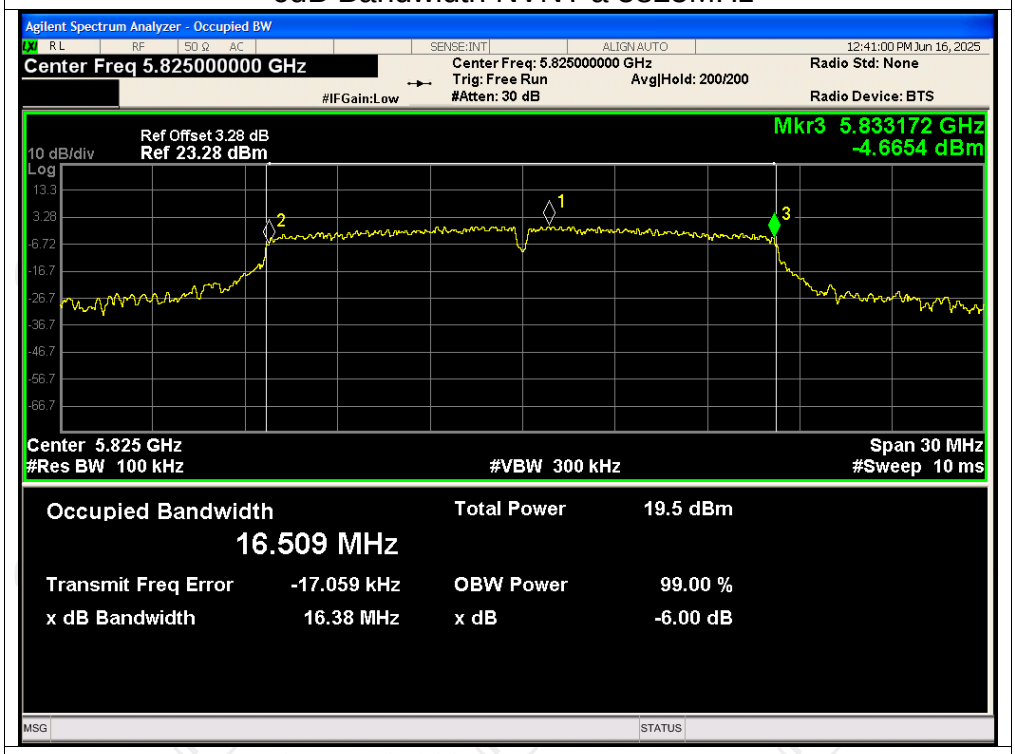
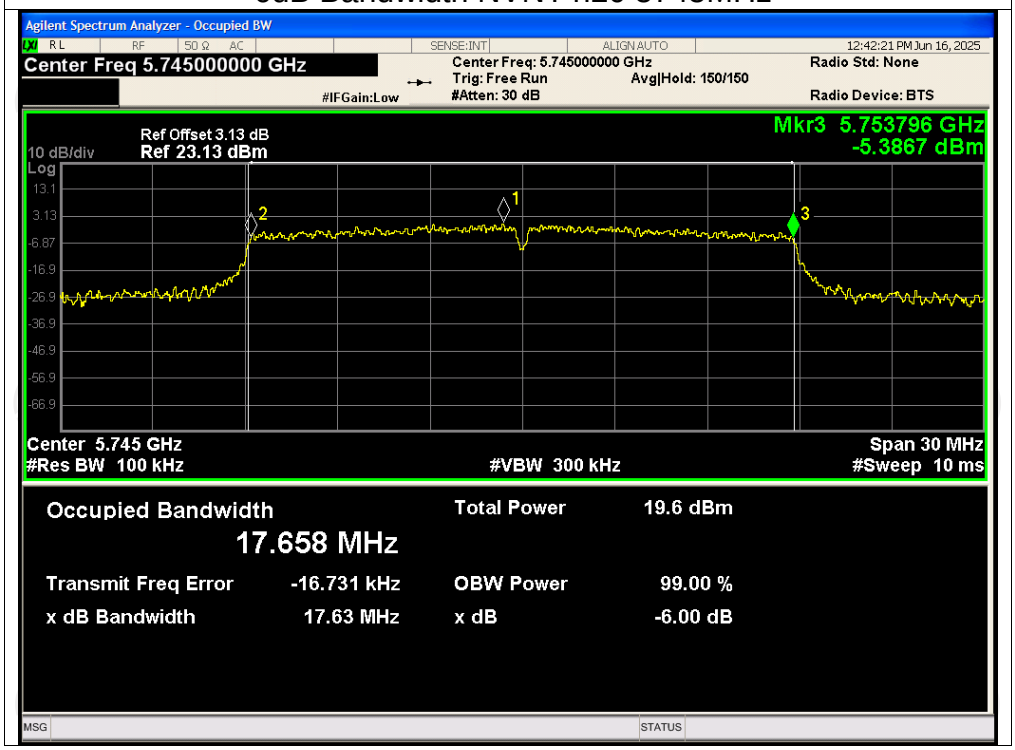
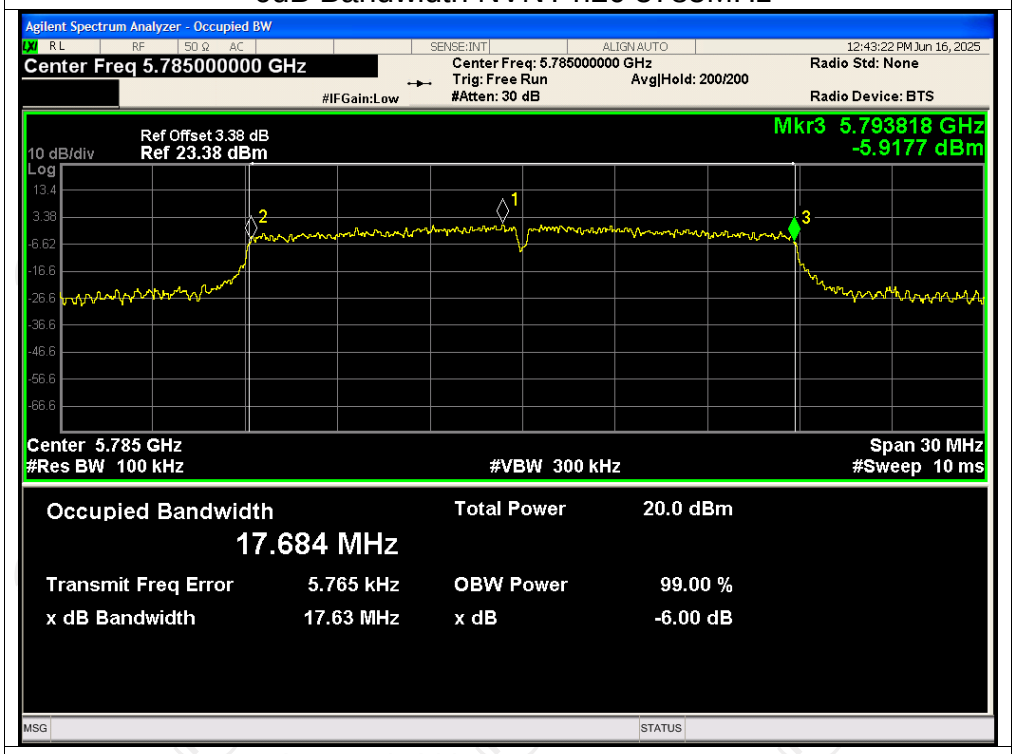
-6dB Bandwidth NVNT a 5825MHz



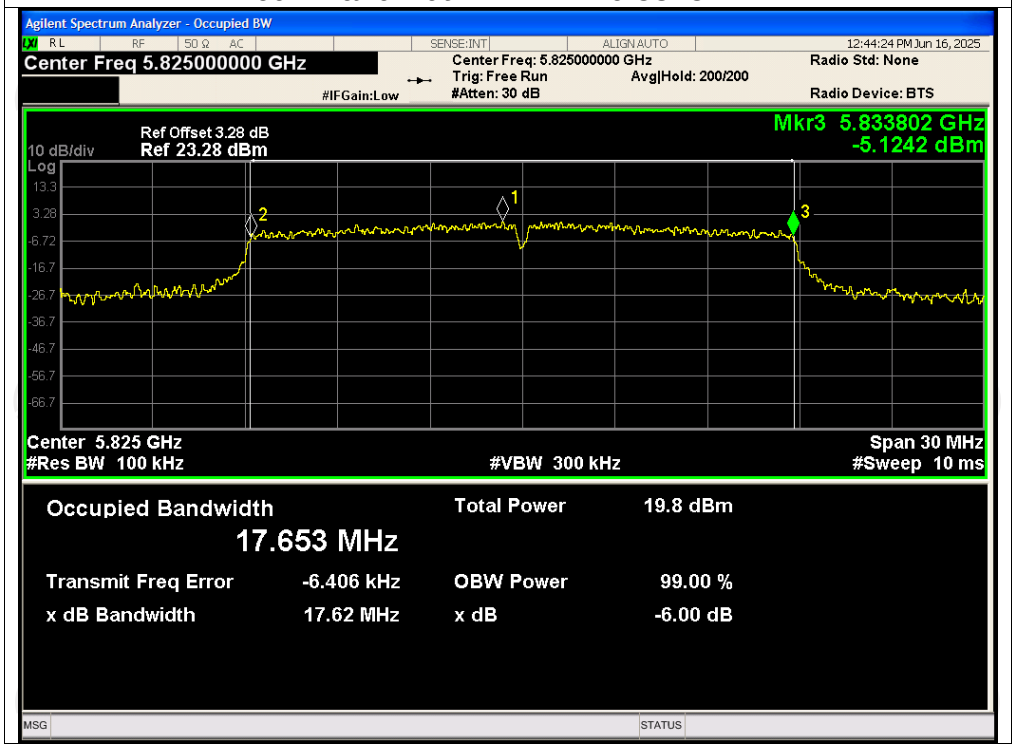
-6dB Bandwidth NVNT n20 5745MHz



-6dB Bandwidth NVNT n20 5785MHz



-6dB Bandwidth NVNT n20 5825MHz



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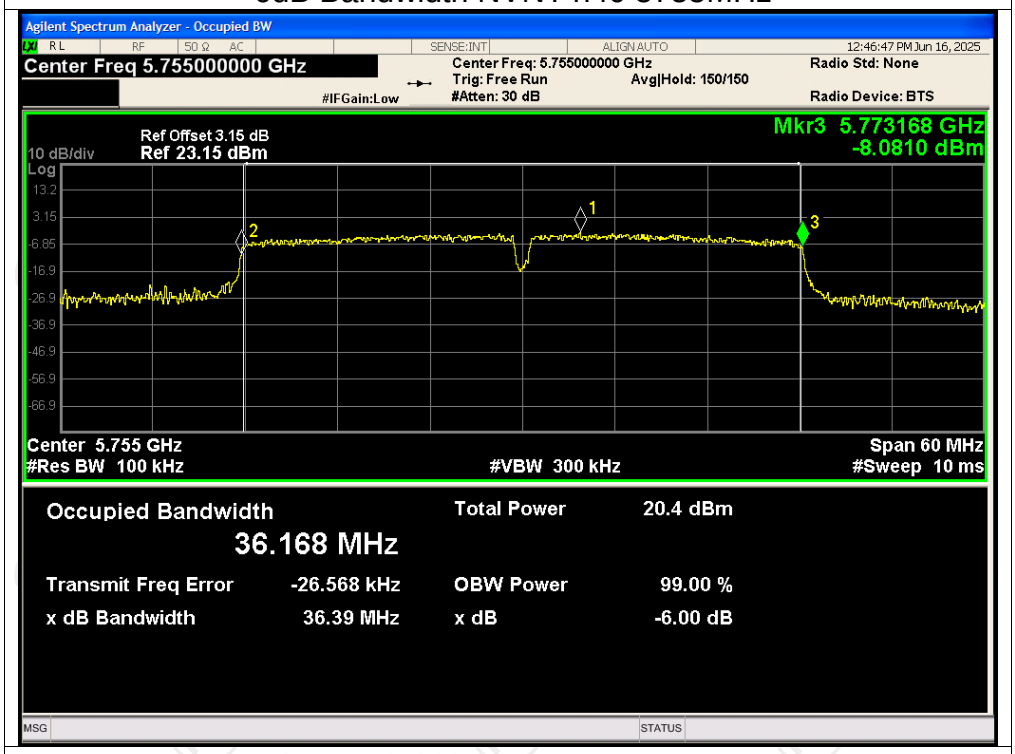
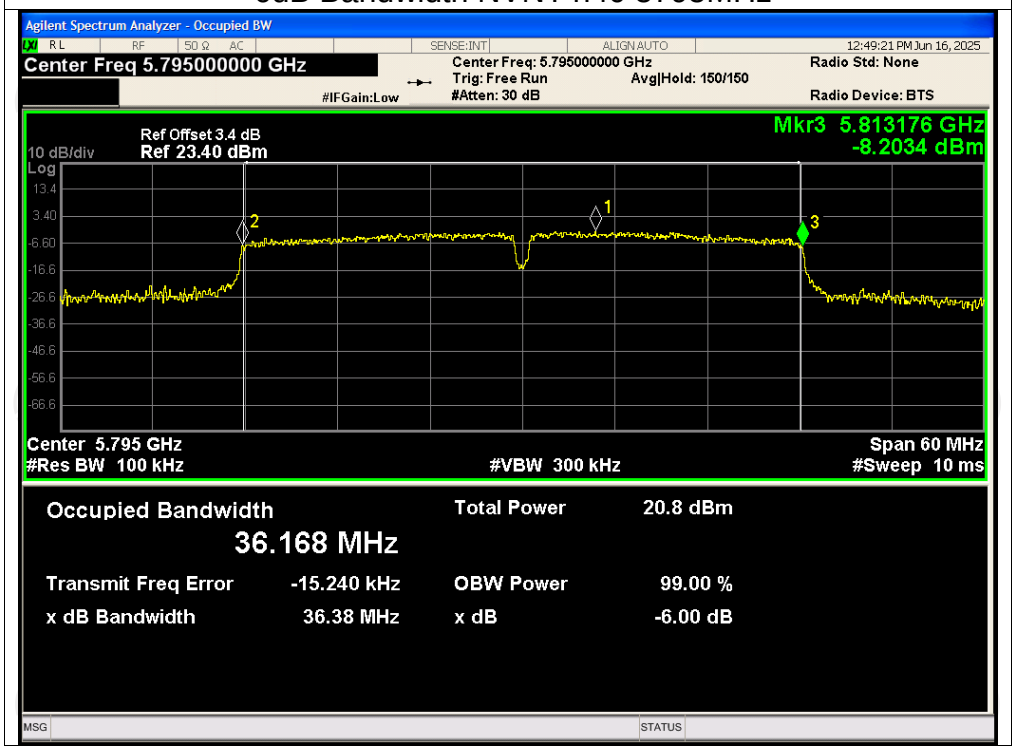
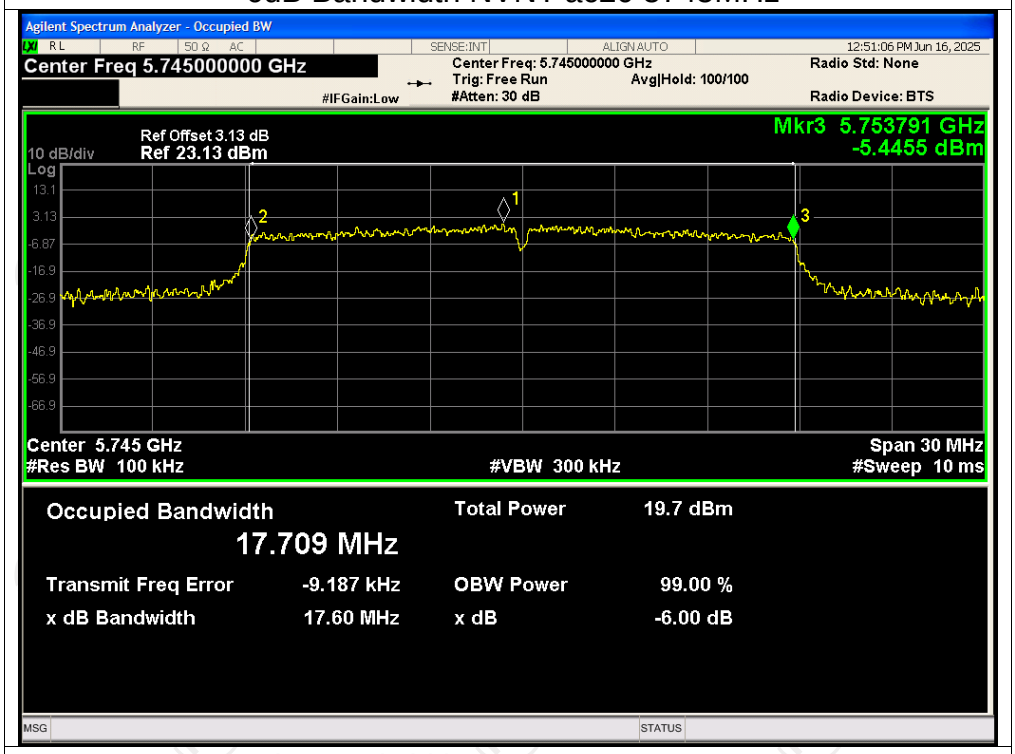
-6dB Bandwidth NVNT n40 5755MHz



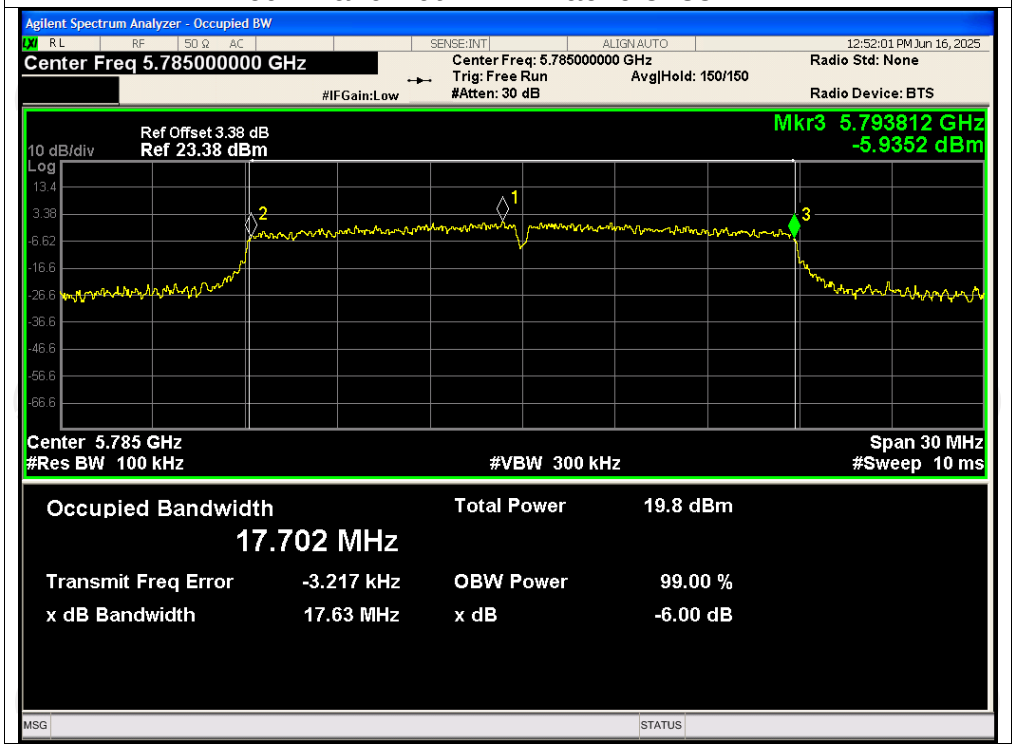
-6dB Bandwidth NVNT n40 5795MHz



-6dB Bandwidth NVNT ac20 5745MHz

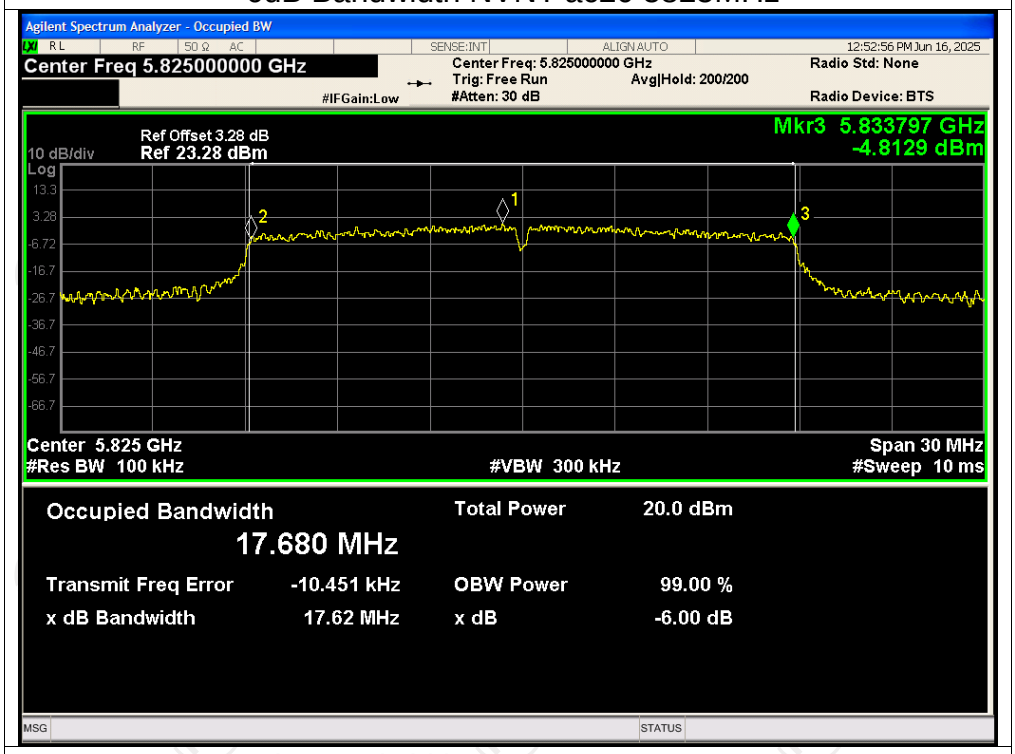


-6dB Bandwidth NVNT ac20 5785MHz

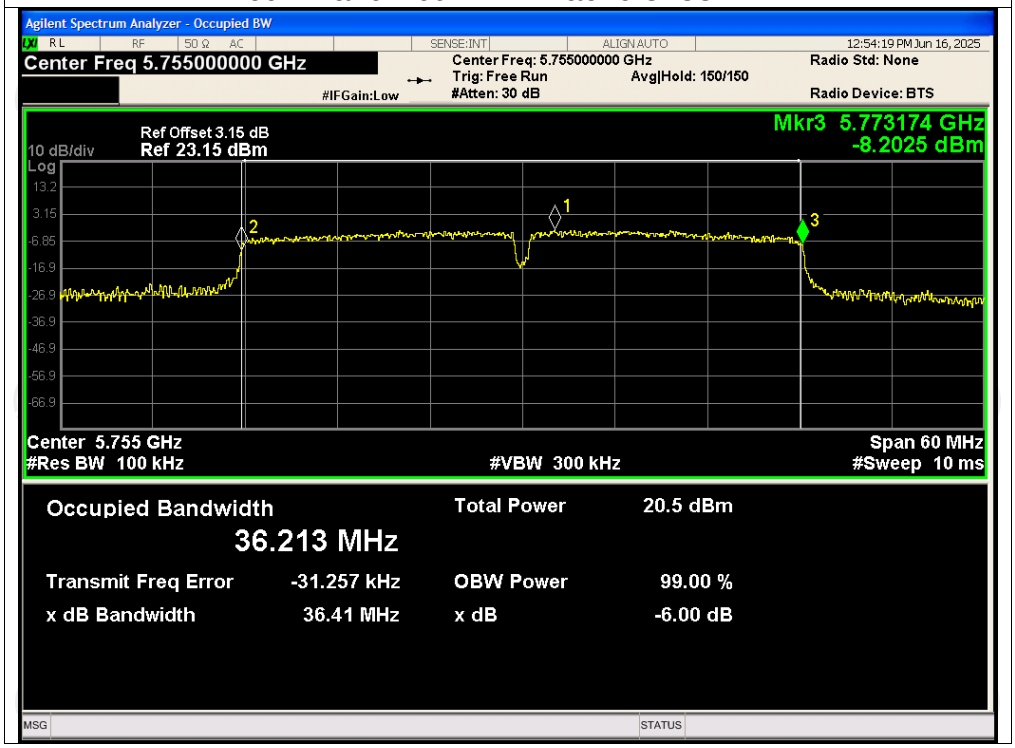


Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

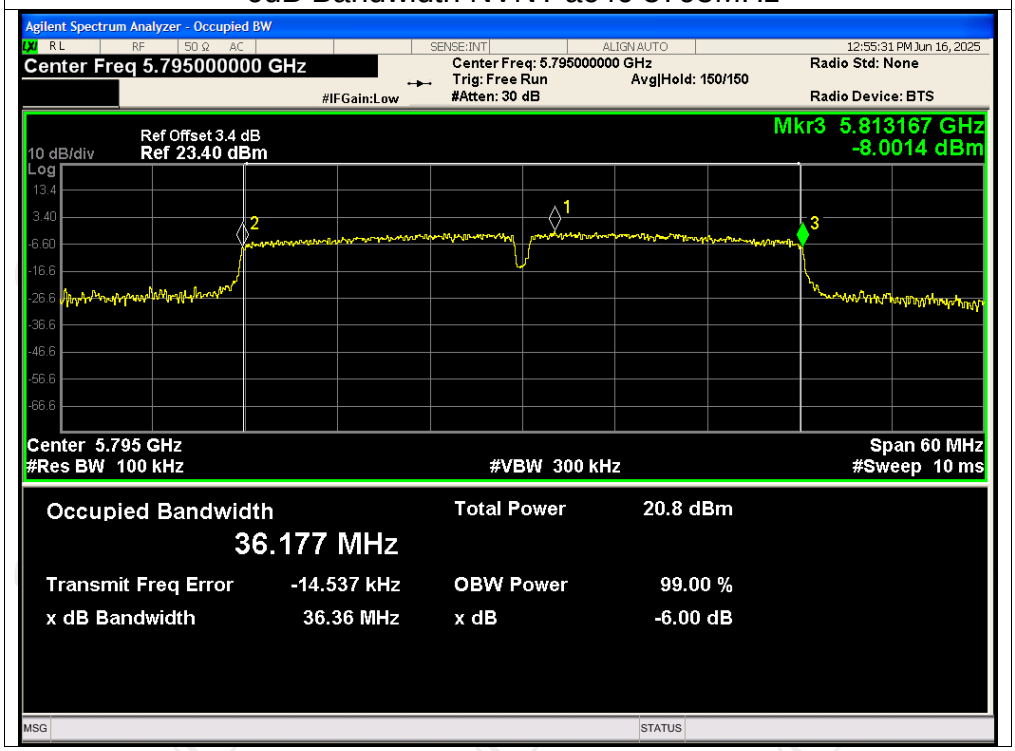
-6dB Bandwidth NVNT ac20 5825MHz



-6dB Bandwidth NVNT ac40 5755MHz



-6dB Bandwidth NVNT ac40 5795MHz

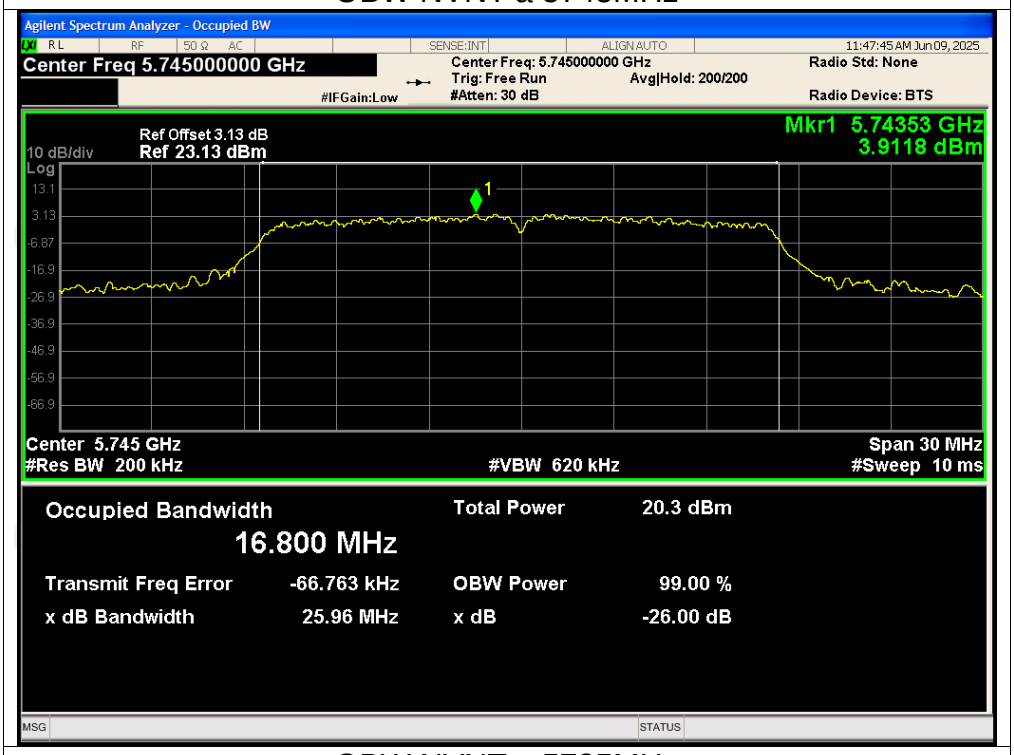


Occupied Channel Bandwidth

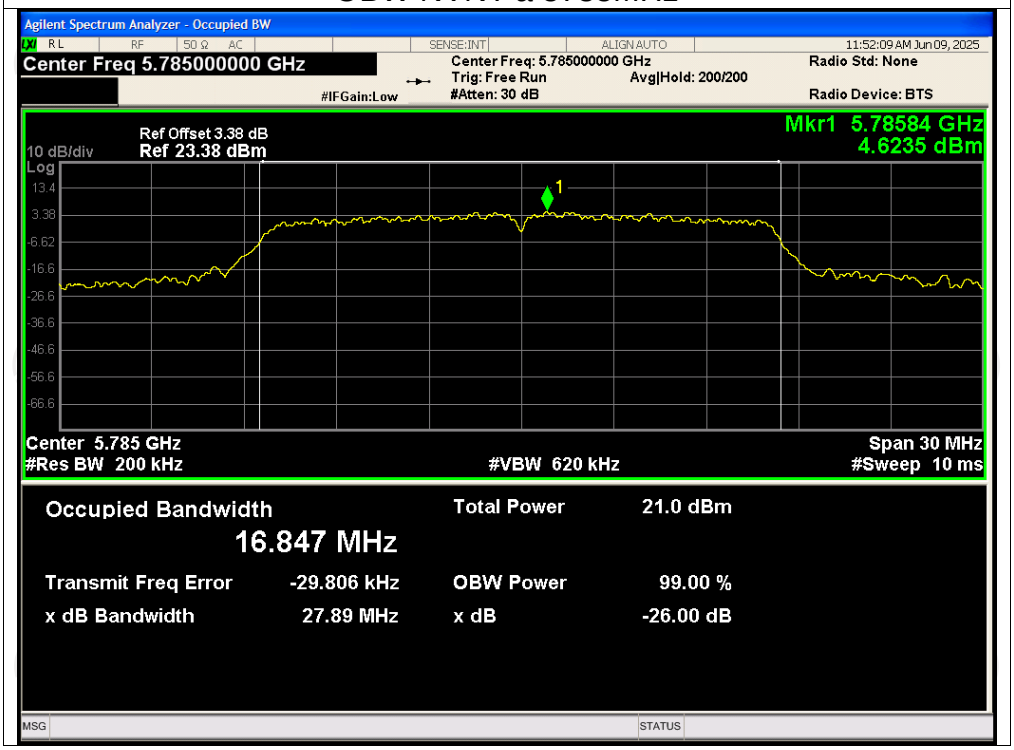
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5745	16.800
NVNT	a	5785	16.847
NVNT	a	5825	16.790
NVNT	n20	5745	17.825
NVNT	n20	5785	17.882
NVNT	n20	5825	17.847
NVNT	n40	5755	36.347
NVNT	n40	5795	36.324
NVNT	ac20	5745	17.794
NVNT	ac20	5785	17.832
NVNT	ac20	5825	17.834
NVNT	ac40	5755	36.507
NVNT	ac40	5795	36.375

Test Graphs

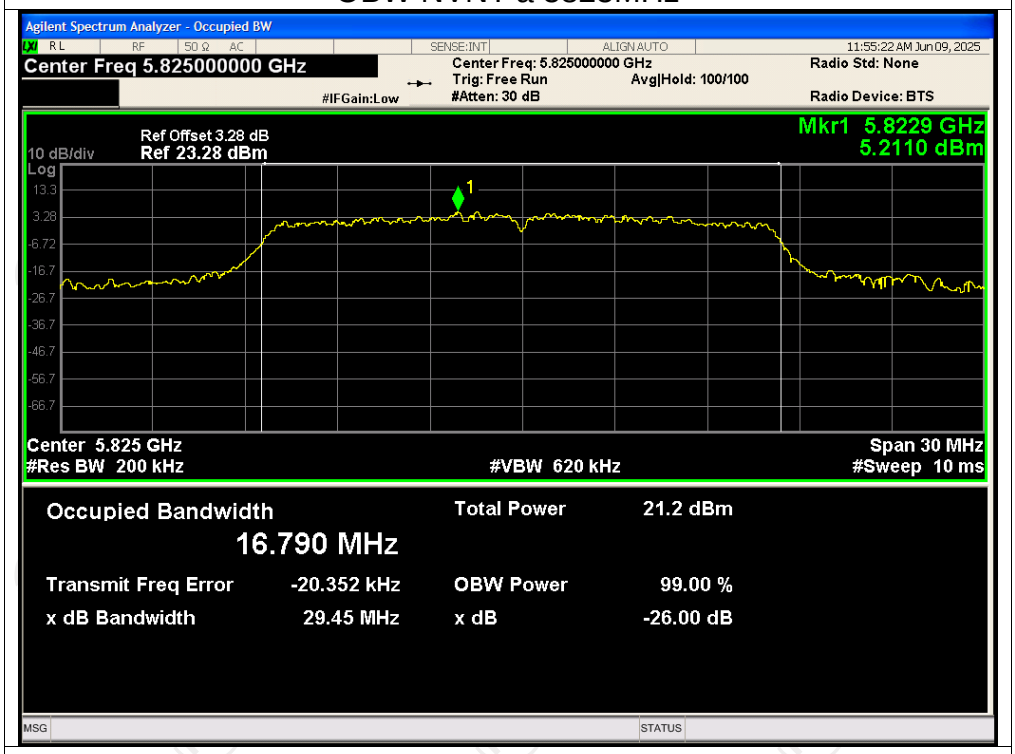
OBW NVNT a 5745MHz



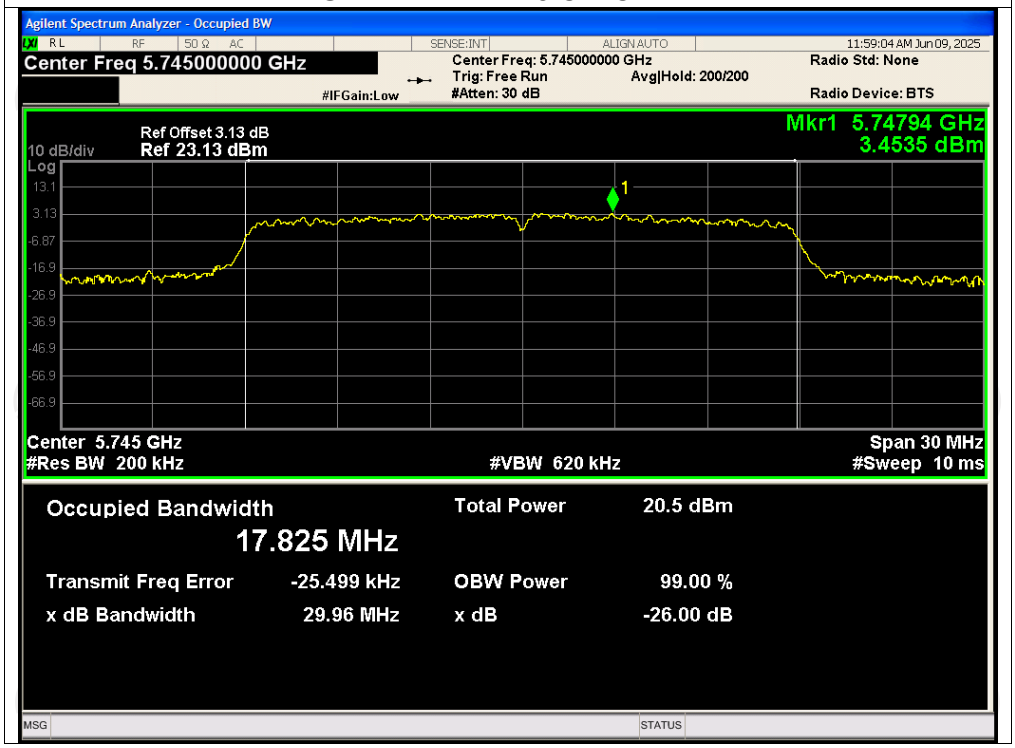
OBW NVNT a 5785MHz



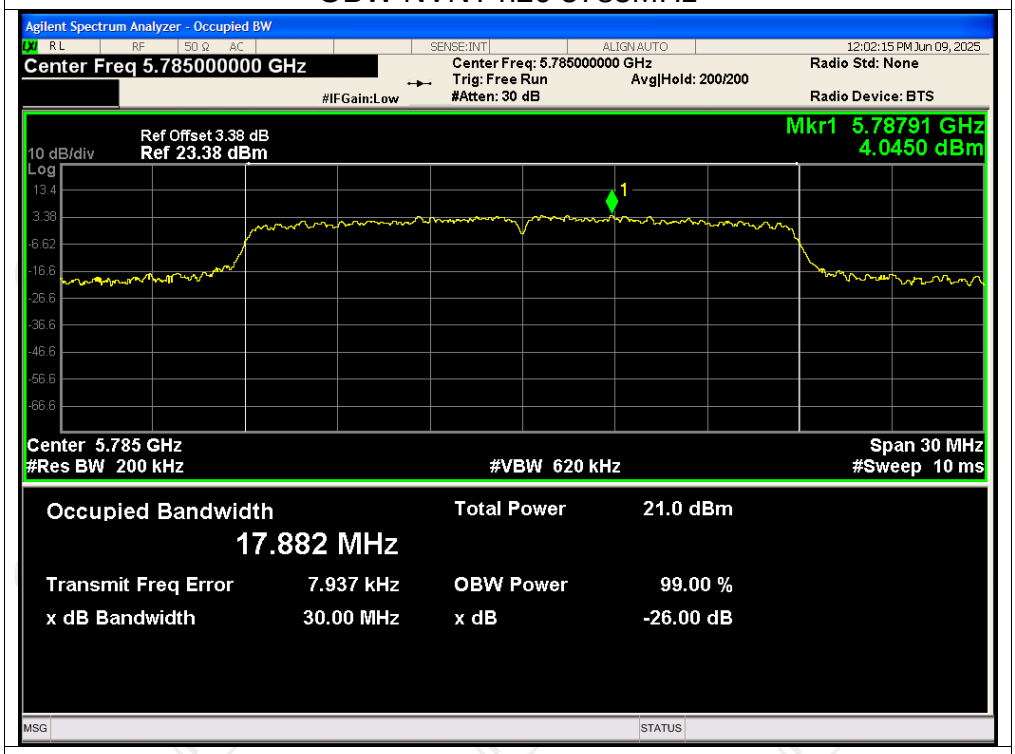
OBW NVNT a 5825MHz



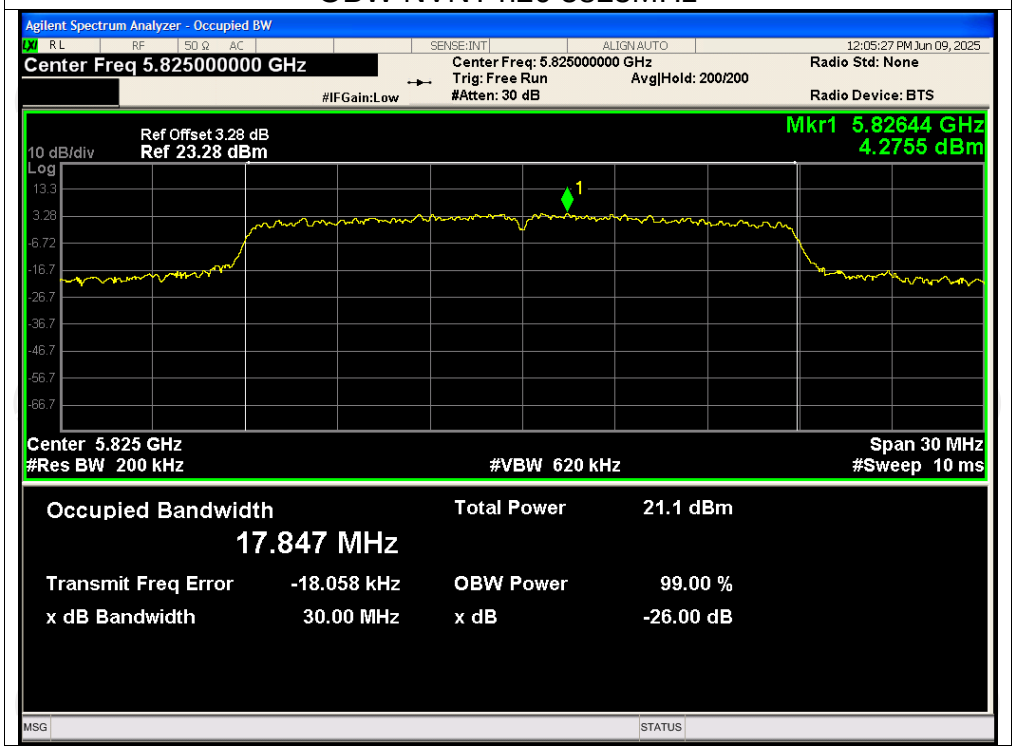
OBW NVNT n20 5745MHz



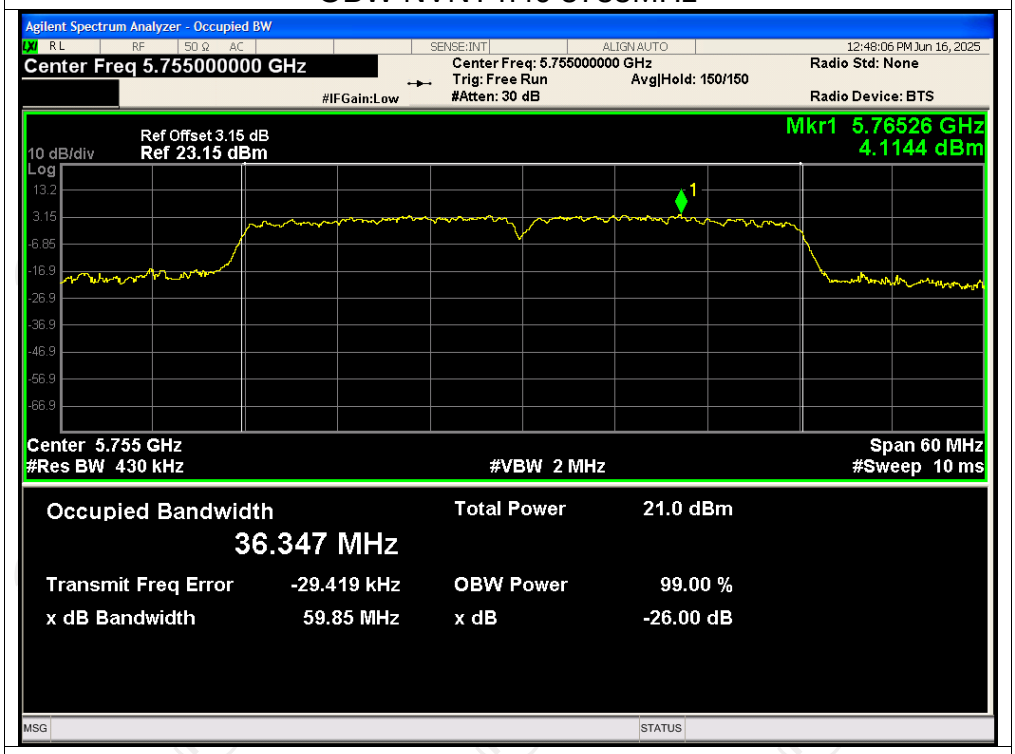
OBW NVNT n20 5785MHz



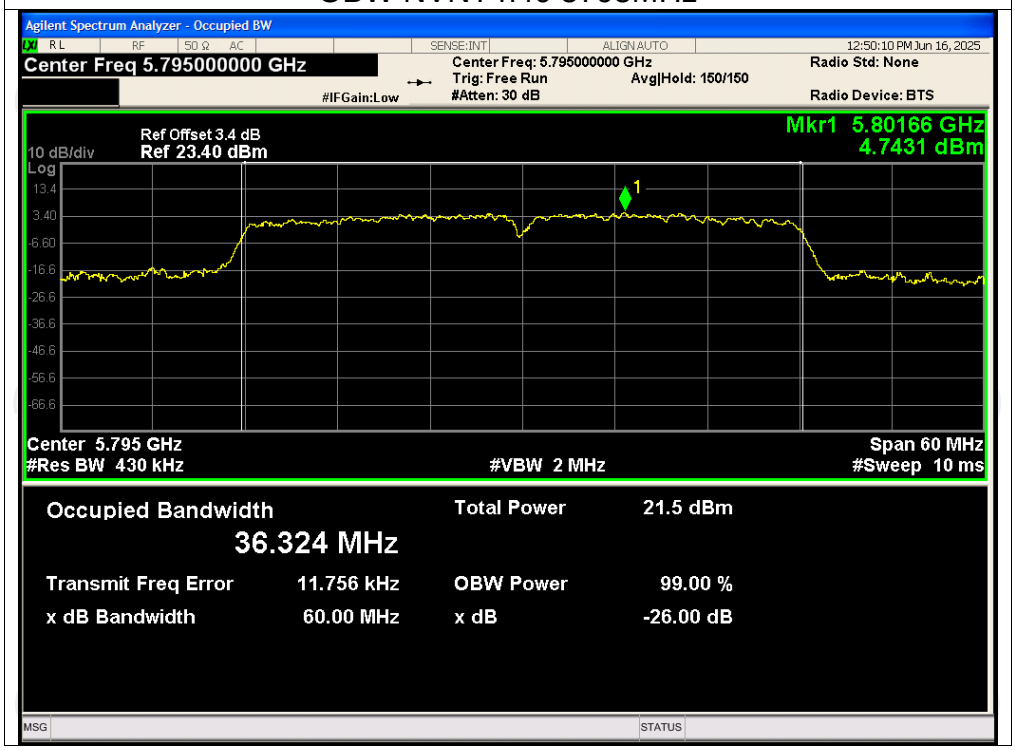
OBW NVNT n20 5825MHz



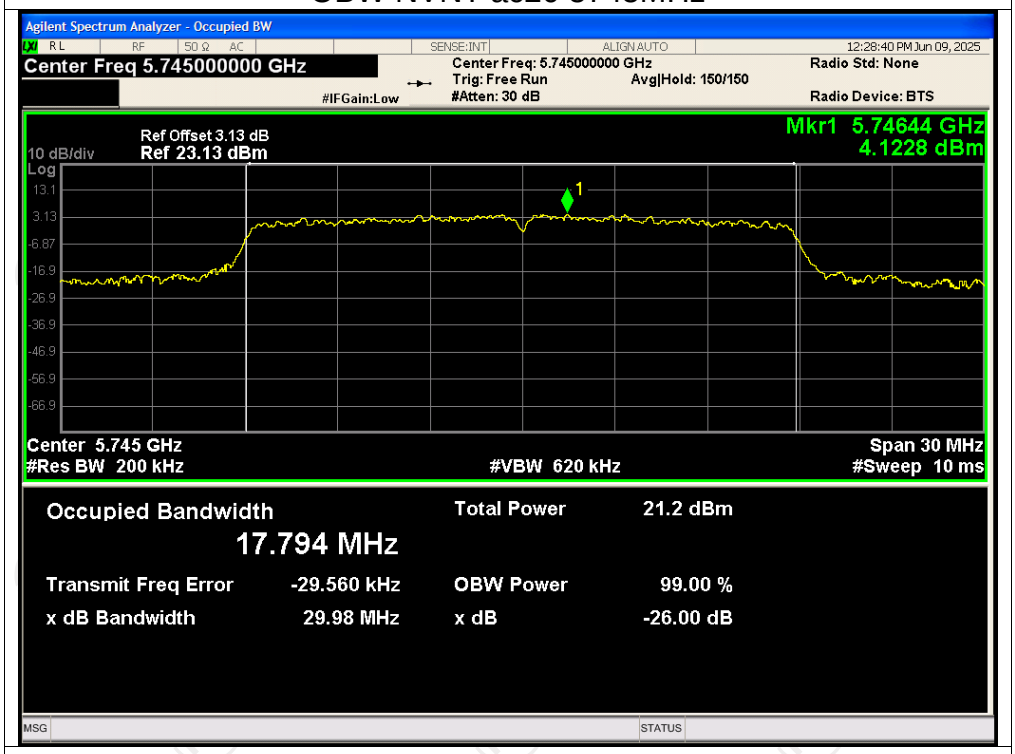
OBW NVNT n40 5755MHz



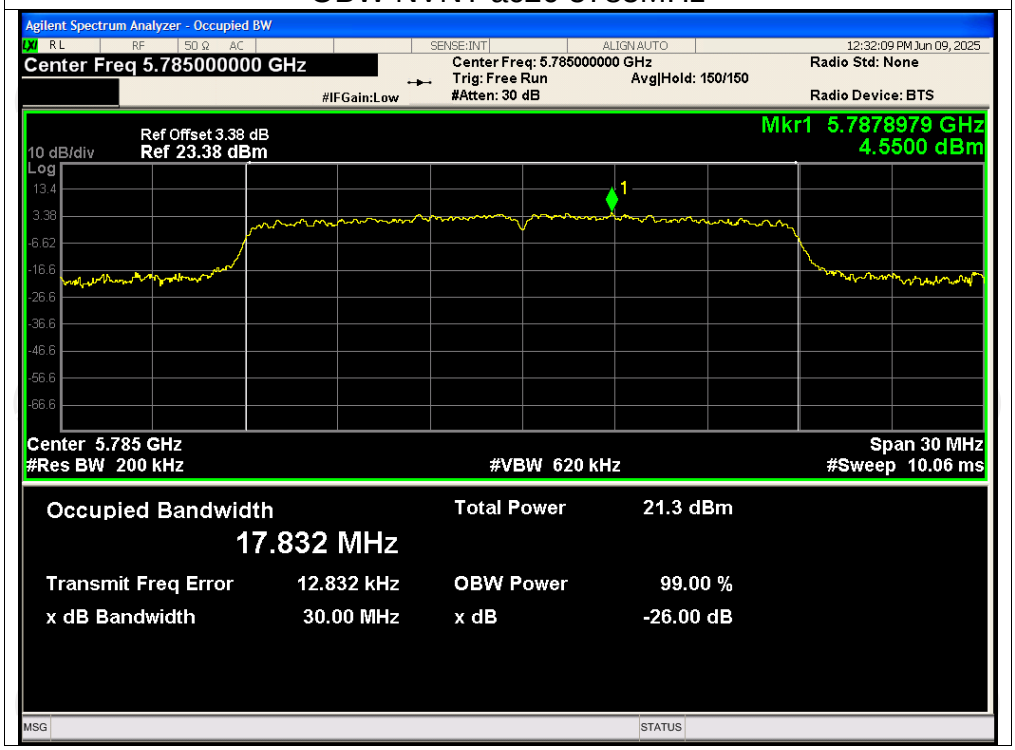
OBW NVNT n40 5795MHz



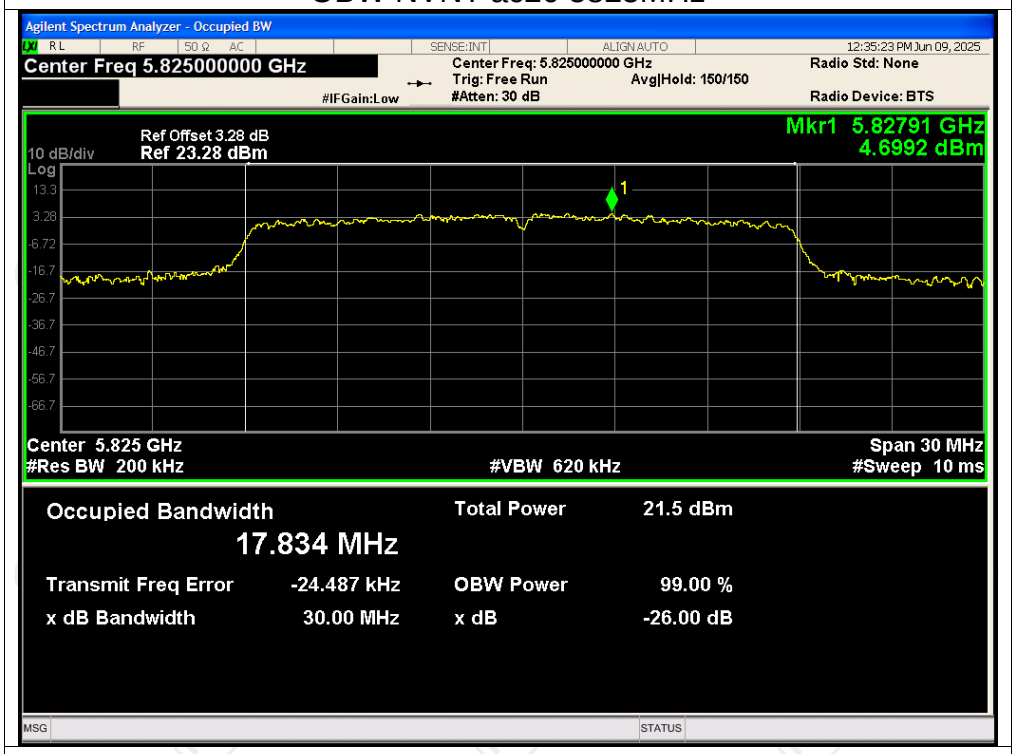
OBW NVNT ac20 5745MHz



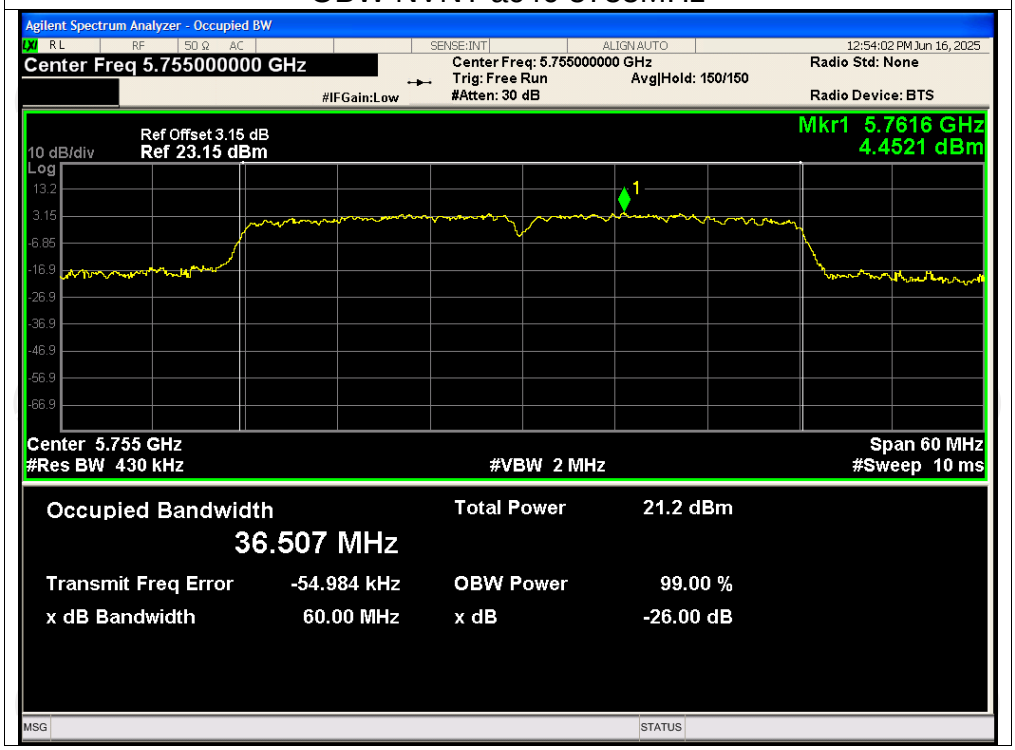
OBW NVNT ac20 5785MHz



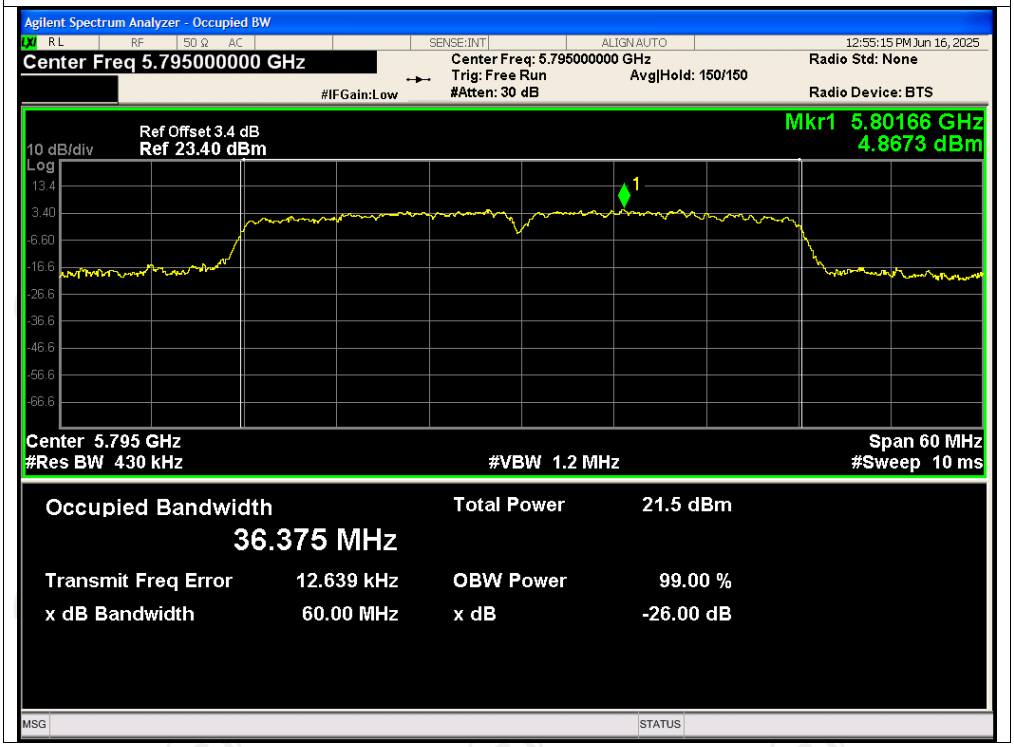
OBW NVNT ac20 5825MHz



OBW NVNT ac40 5755MHz



OBW NVNT ac40 5795MHz



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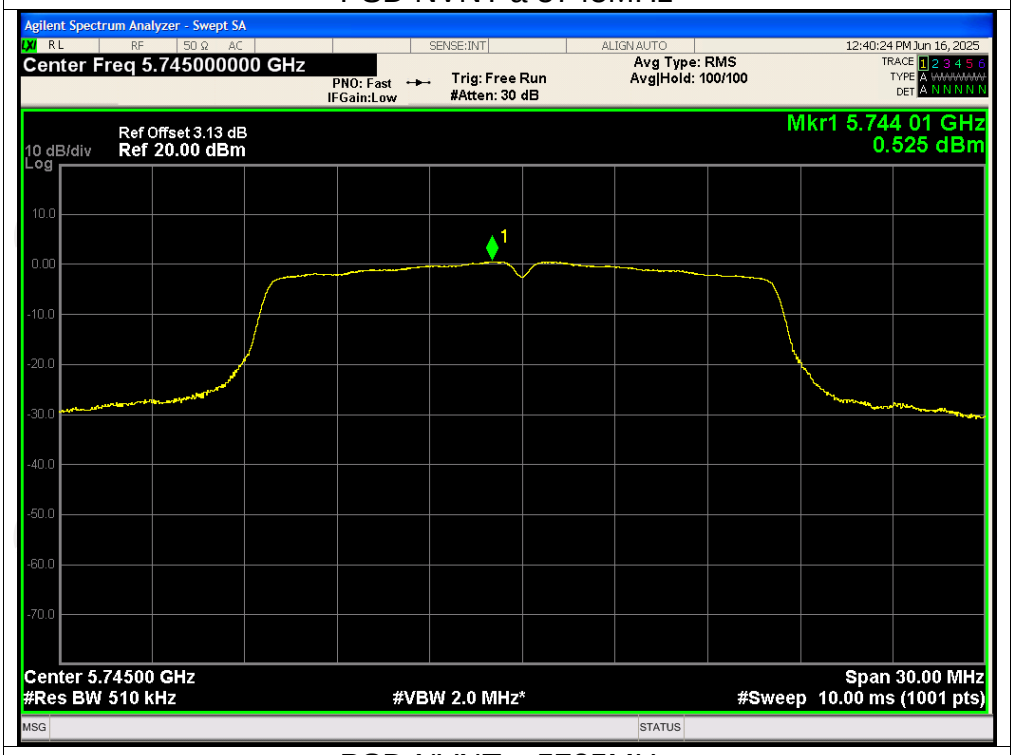
Maximum Power Spectral Density Level

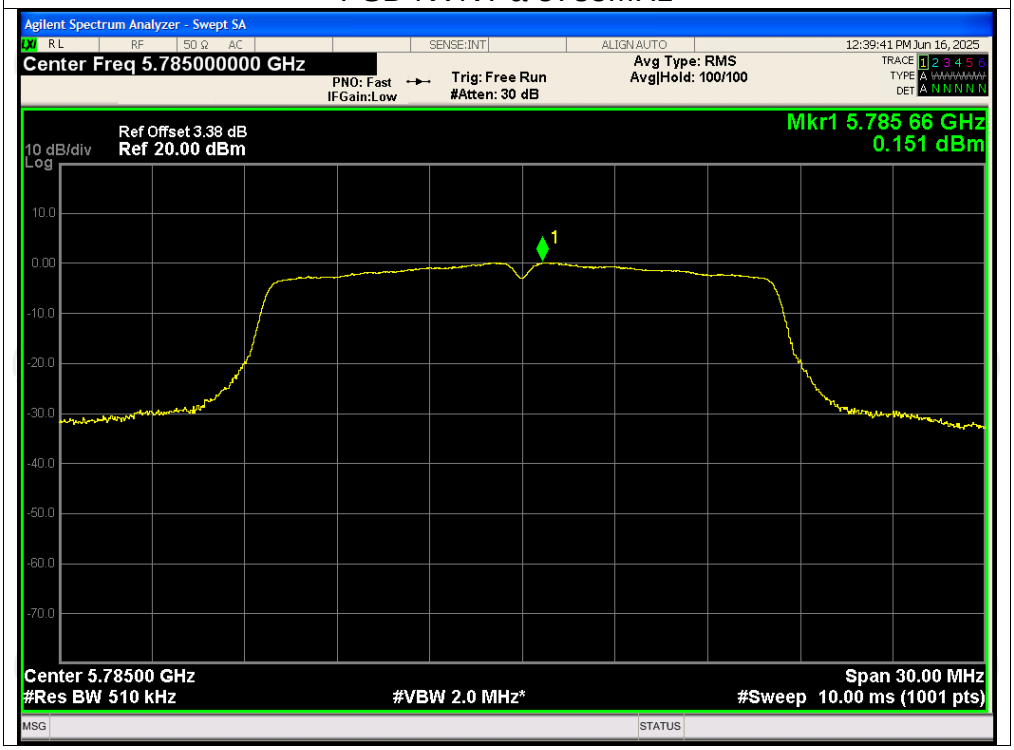
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	0.53	30	Pass
NVNT	a	5785	0.15	30	Pass
NVNT	a	5825	0.50	30	Pass
NVNT	n20	5745	0.24	30	Pass
NVNT	n20	5785	0.57	30	Pass
NVNT	n20	5825	0.46	30	Pass
NVNT	n40	5755	-2.82	30	Pass
NVNT	n40	5795	-2.10	30	Pass
NVNT	ac20	5745	0.41	30	Pass
NVNT	ac20	5785	0.38	30	Pass
NVNT	ac20	5825	0.60	30	Pass
NVNT	ac40	5755	-2.77	30	Pass
NVNT	ac40	5795	-2.22	30	Pass

Test Graphs

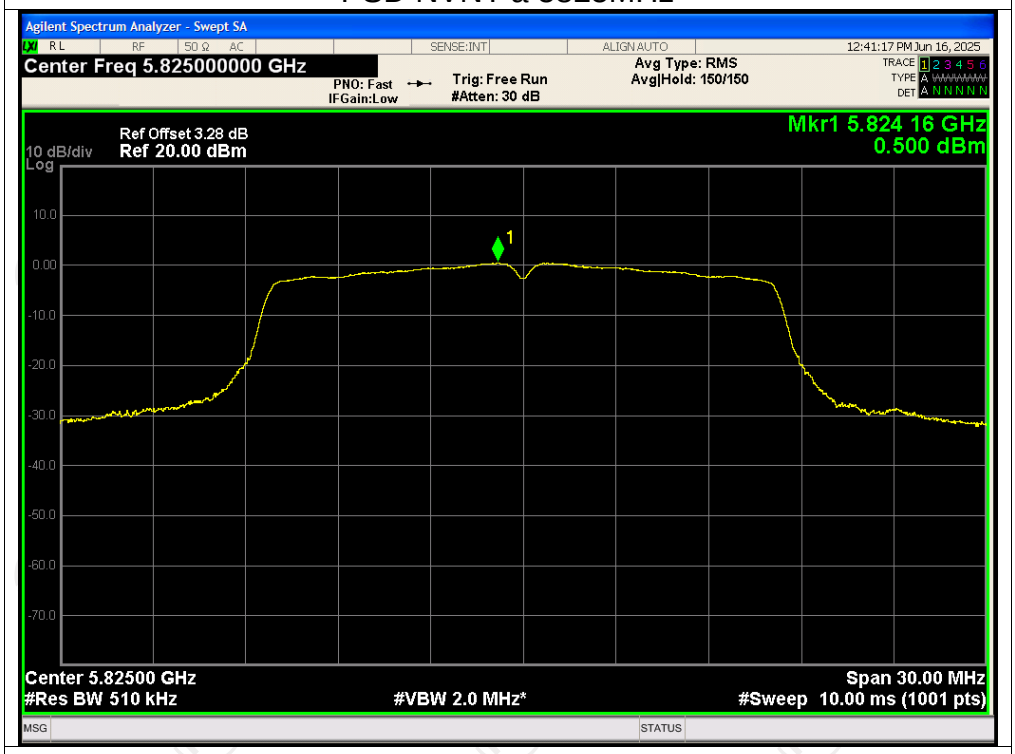
PSD NVNT a 5745MHz



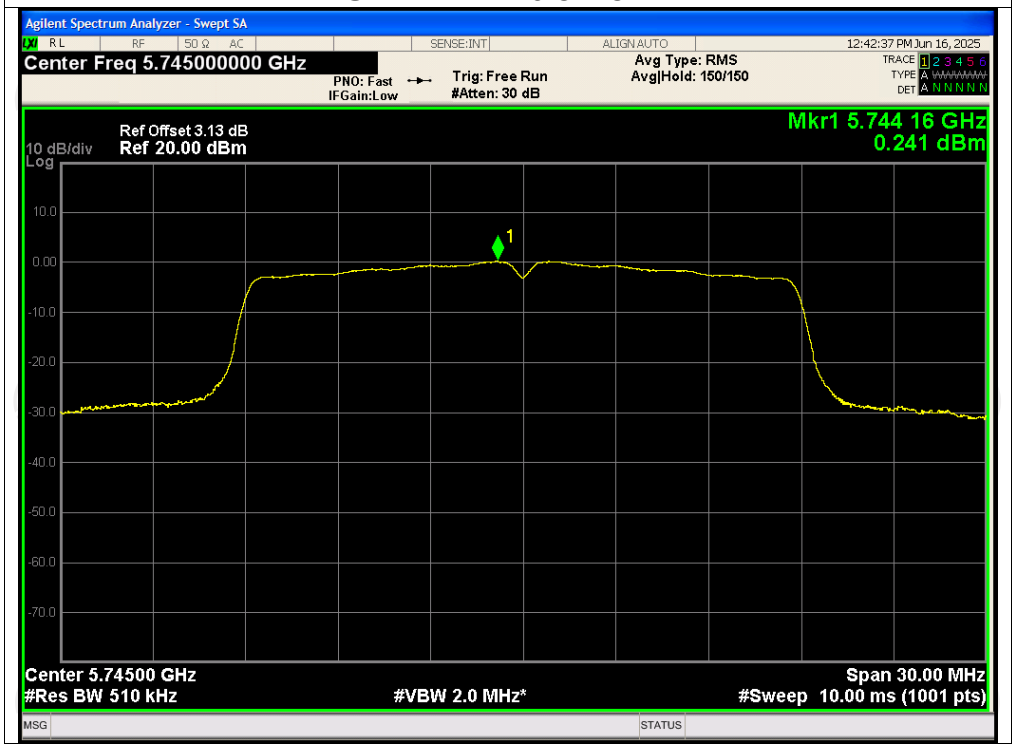
PSD NVNT a 5785MHz



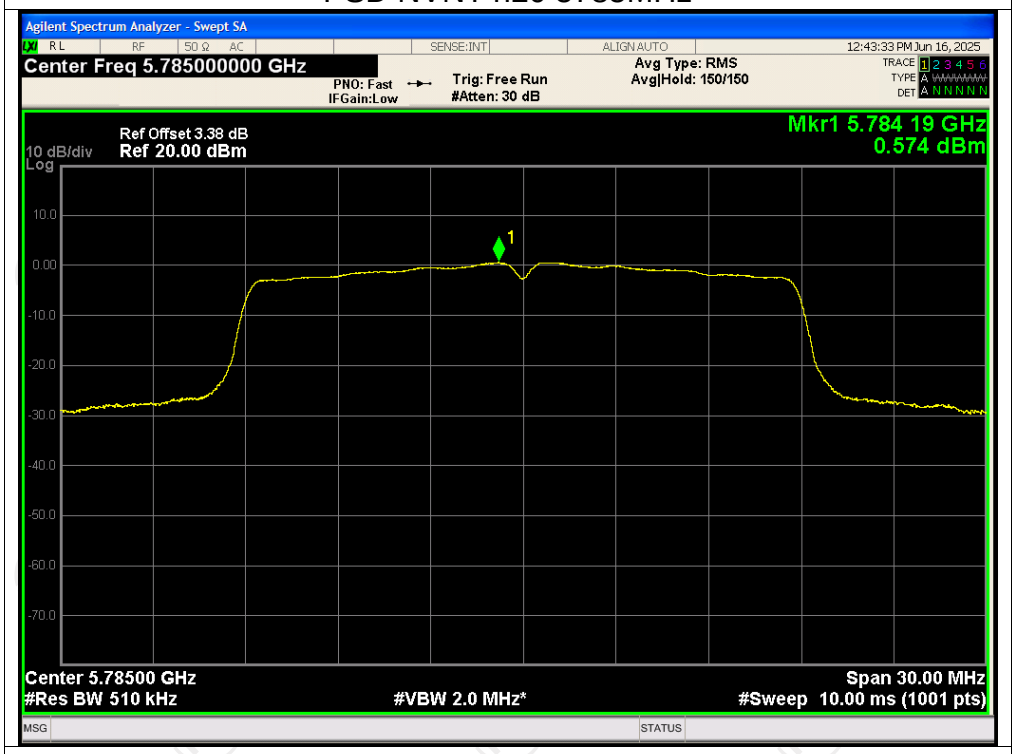
PSD NVNT a 5825MHz



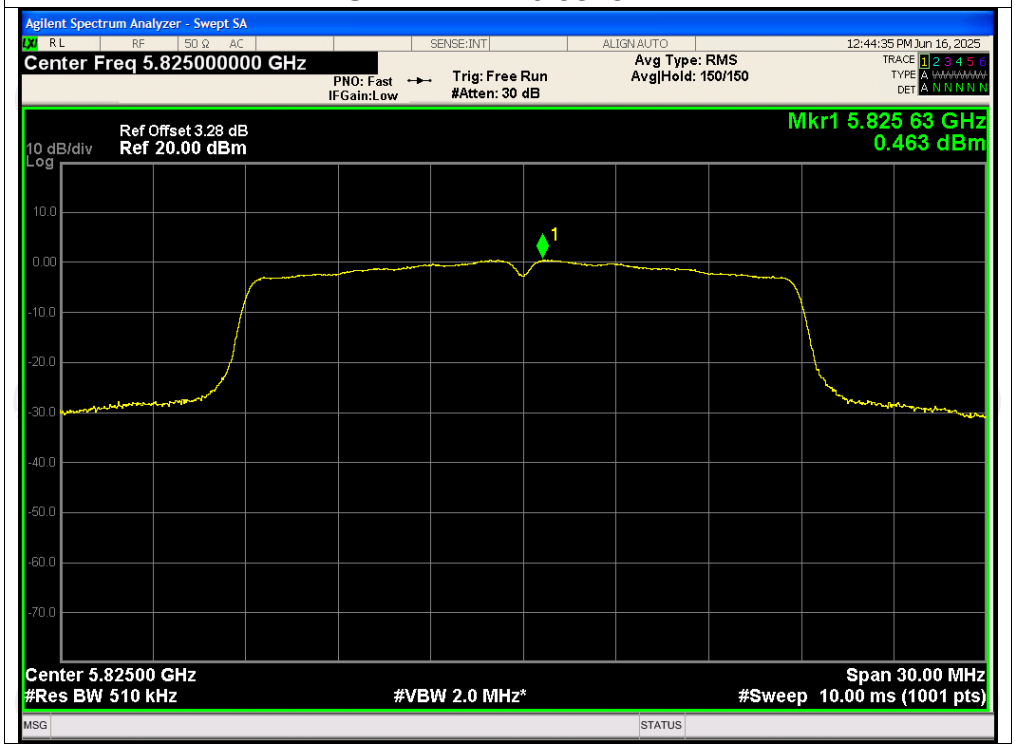
PSD NVNT n20 5745MHz



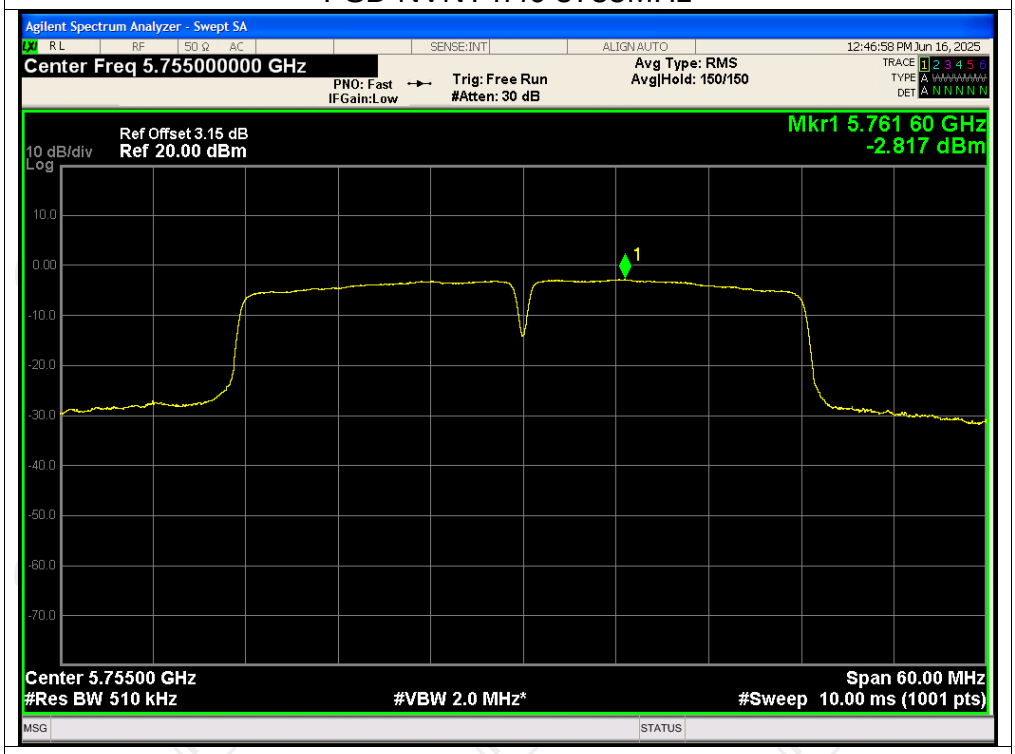
PSD NVNT n20 5785MHz



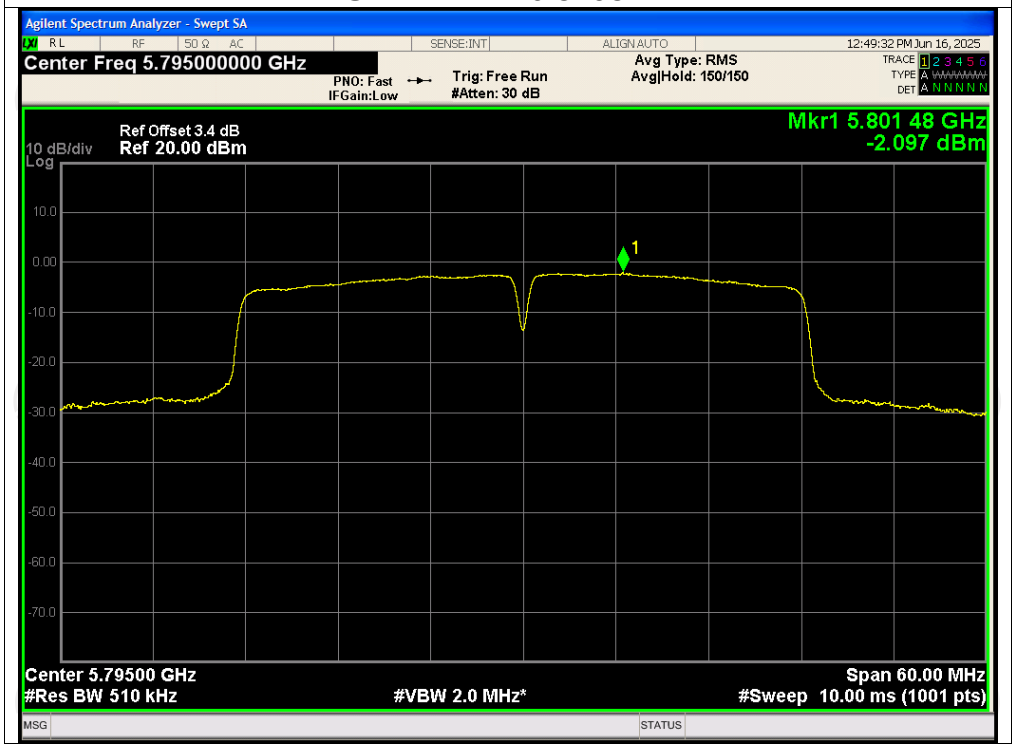
PSD NVNT n20 5825MHz



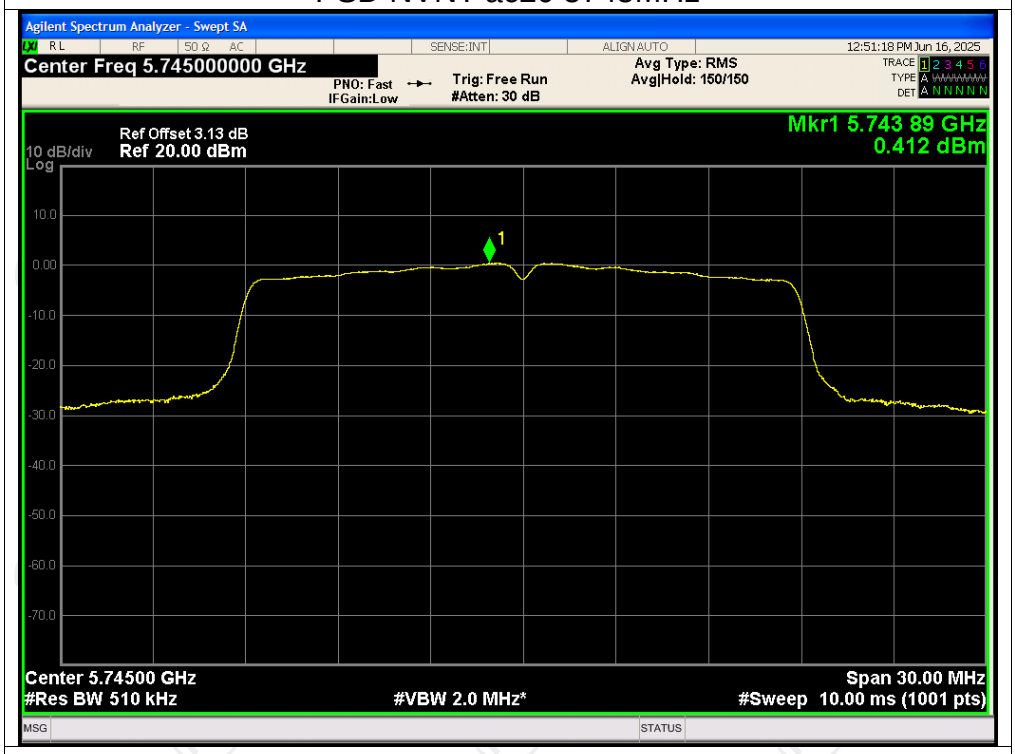
PSD NVNT n40 5755MHz



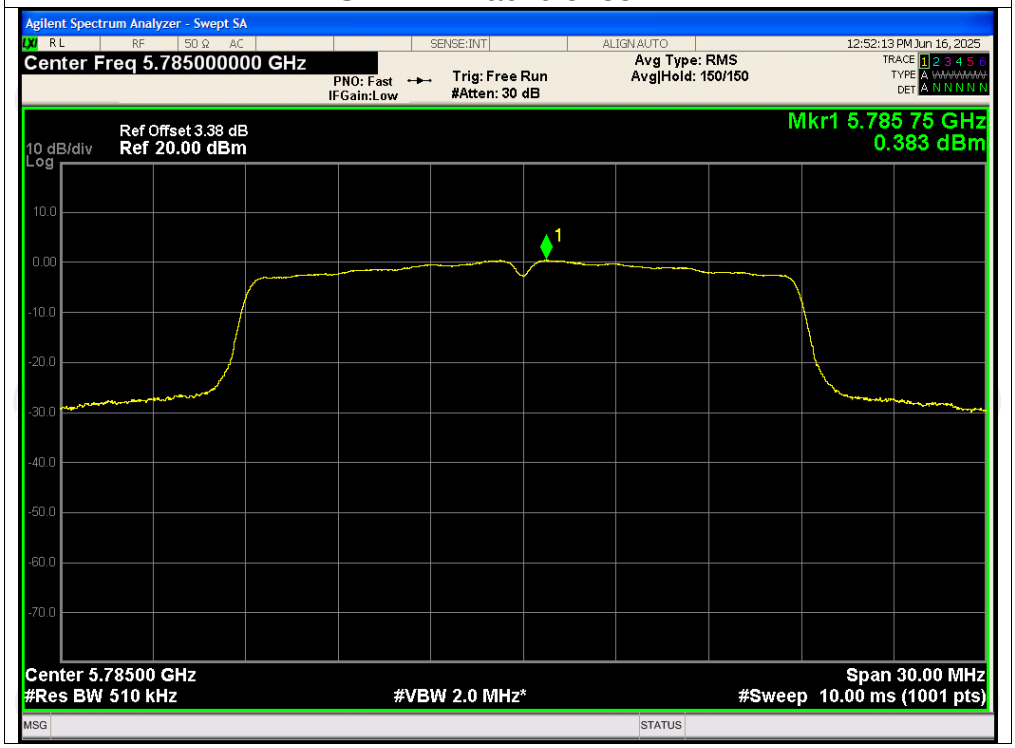
PSD NVNT n40 5795MHz



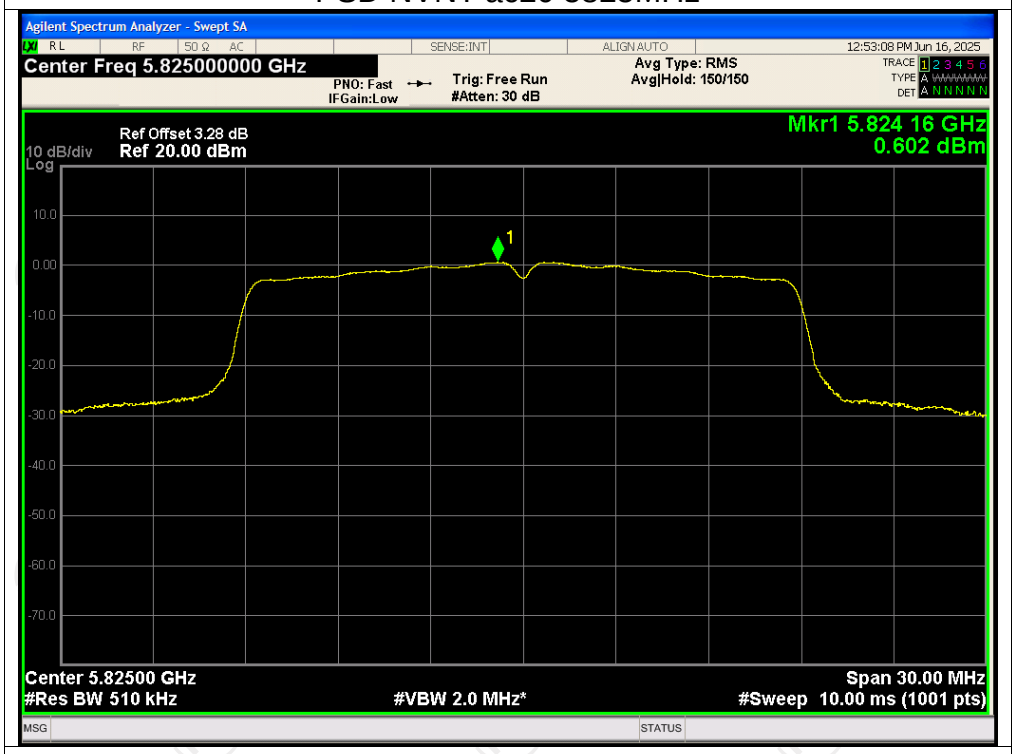
PSD NVNT ac20 5745MHz



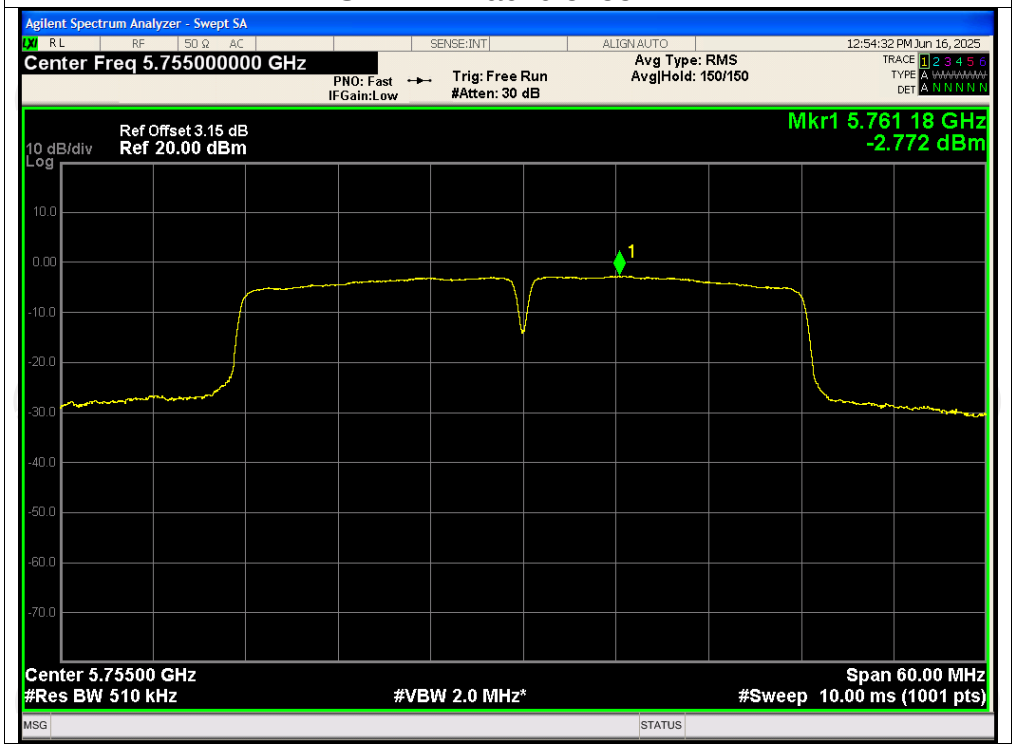
PSD NVNT ac20 5785MHz



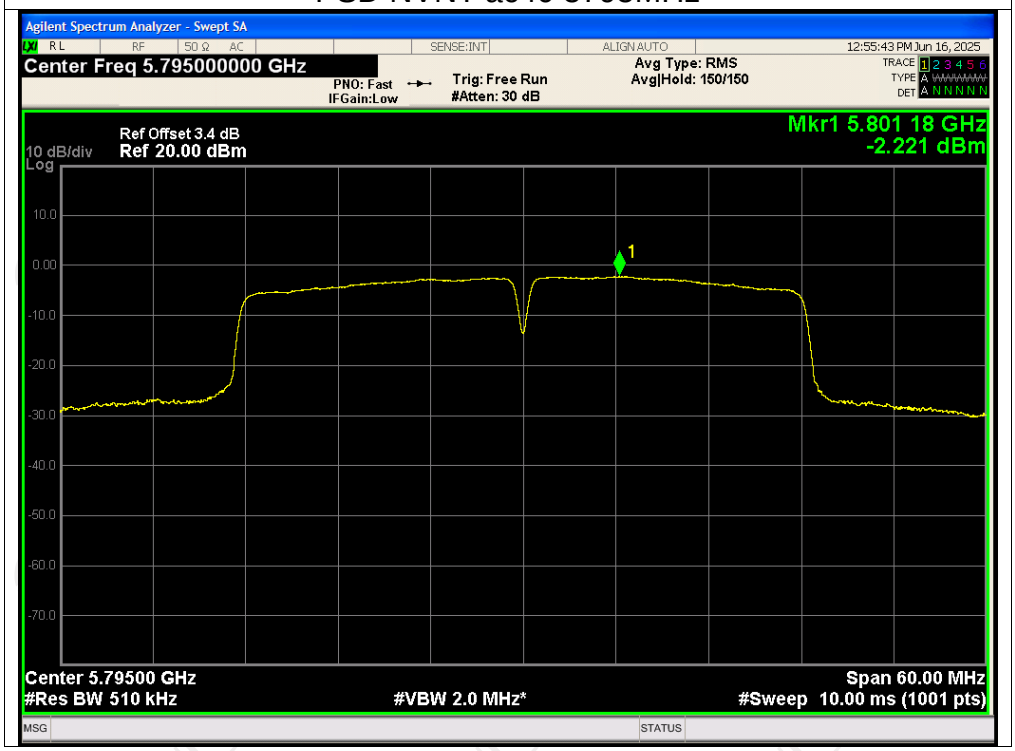
PSD NVNT ac20 5825MHz



PSD NVNT ac40 5755MHz



PSD NVNT ac40 5795MHz



Appendix B: Photographs of Test Setup

Please refer to document Appendix No.: TCT250522E034-A

Appendix C: Photographs of EUT

Please refer to document Appendix No.: TCT250522E034-B & TCT250522E034-C

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