



TEST REPORT

Applicant: Shenzhen Hongshengda Photoelectric Technology Co. , Ltd

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Manufacturer: Shenzhen Hongshengda Photoelectric Technology Co. , Ltd

Address of Manufacturer: Floor 3, Building 4, No. 161, Xingye 1st Road, Fenghuang Community,Fuyong Street, Bao'an District, Shenzhen, China

Product Name: Portable Touchscreen Smart TV

Model No.: M03,HSD-M03,HSD-32****,M03*****,HSD-M03*****,H*****,M*****
('*' represents numbers 0-9, letters A-Z, a-z, symbols, or spaces)

Trade Mark: N/A

FCC ID: 2BVSY-M03

Applicable standards: CFR Title 47 Part 15.407

Date of Test: May.07, 2026- Jun.10, 2026

Date of report issued: Jun.11, 2026

Remark:

The results shown in this test report refer only to the sample(s) tested , this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver

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Report Revision History		
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1 Test Summary

Test Item	Section in CFR 47	Result	Test by
Antenna requirement	47CFR part 15.203	Pass	/
AC Power Line Conducted Emission	47CFR part 15.207	Pass	Jason Huang
Conducted Output Power	47CFR part 15.407 (a)(1)/(a)(3)	Pass	Oliver Wang
26dB Bandwidth	47CFR part 15.407 (a)(12)	Pass	Oliver Wang
6dB Bandwidth	47CFR part 15.407 (e)	Pass	Oliver Wang
Power Spectral Density	47CFR part 15.407(a)(1)/(a)(3)	Pass	Oliver Wang
Band Edge	47CFR part 15.407(b)(1)/(b)(4)	Pass	Oliver Wang
Spurious Emission	47CFR part 15.205/15.209 47CFR part 15.407(b)(1)/(b)(4)/(b)(8)	Pass	Leo Zhong

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10-2020+Cor.1-2023 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
3. Note: Compliance determination rules
 - 1).The Compliance determination of test results does not take into account measurement uncertainty. Measurement results are determined based on regulatory limitations or requirements specified by the applicant/manufacture. If measurement uncertainty is taken into account, the applicant/manufacture will bear all possible risks of non-compliance.
 - 2).The measurement uncertainty please refer to each test result in the "Measurement Uncertainty"

1.1 Measurement Uncertainty

Test Item	Measurement Uncertainty	Notes
Occupied Channel Bandwidth	0.72%	(1)
RF output power, conducted	±0.67 dB	(1)
Power Spectral Density, conducted	±0.51 dB	(1)
Unwanted Emissions, conducted	±0.64 dB	(1)
AC Power Line Conducted Emission	± 3.38 dB	(1)
Radiated emissions 9K-30MHz	±4.26 dB	(1)
Radiated emissions 30M- 1GHz	±4.88 dB	(1)
Radiated emissions 1GHz-18GHz	± 4.16 dB	(1)
Radiated emissions 18GHz-40GHz	±4.14 dB	(1)
Frequency error	Uc=6X10 ⁻⁷	(1)
Duty Cycle	0.03	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

2 General Information

2.1 General Description of EUT

Product Name:	Portable Touchscreen Smart TV
Model No.:	M03,HSD-M03,HSD-32****,M03*****,HSD-M03*****,H*****,M***** ('*' represents numbers 0-9, letters A-Z, a-z, symbols, or spaces)
Difference of model(s)	All models have the same electrical circuit, including the same software parameters and hardware design (i.e. circuit design, PCB layout, RF module/circuit, antenna type and location, components on PCB, etc.), the same mechanical structure and design (including product casing, materials, etc.), except for the model name and color
Test Model:	M03
Hardware Version:	N/A
Software Version:	N/A
Power supply:	DC 19V from adapter or DC 14.8V from battery
Adapter information:	Model: FX65C-190342Z Input: AC100-240V~50/60Hz 1.5Amax Output: DC19V 3.42A Model: CW75A1903420PI Input: AC100-240V~50/60Hz 1.8Amax Output: DC19V 3.42A
Battery:	DC 14.8V 9600mAh
Radio Technology:	5G RLAN
Operation Frequency:	☒ 5180-5240MHz for 802.11a/n20/ac20/ax20 5190-5230MHz for 802.11n40/ac40/ax40 5210MHz for 802.11ac80/ax80 ☒ 5745-5825 MHz for 802.11a/n20/ac20/ax20; 5755-5795 MHz for 802.11n40/ac40/ax40; 5775MHz for 802.11 ac80/ax80
Channel numbers:	☒ 4 channels for 802.11a/n20/ac20/ax20 in the 5180-5240MHz band; 2 channels for 802.11 n40/ac40/ax40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80/ax40 in the 5210MHz band ; ☒ 5 channels for 802.11a/n20/ac20/ax20 in the 5745-5825MHz band ; 2 channels for 802.11 n40/ac40/ax40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80/ax80 in the 5775MHz band
Channel bandwidth:	802.11an20/ ac20/ax40 : 20MHz 802.11n40/ac40/ax40 : 40MHz 802.11ac80/ax80: 80MHz
Modulation technology:	Orthogonal Frequency Division Multiplexing (OFDM) with BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM
Antenna Type:	Metal plate antenna
Antenna gain:	2.93dBi
Note: 1. Other information please Reference user manual. 2. Antenna information is provided by applicant, Testing lab is not responsible for the accuracy of the information. 3. All adapters were tested, and found the Model: FX65C-190342Z had the worst test data, and only show the worst case data in the report.	

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	38	5190MHz	40	5200MHz	42	5210MHz
44	5220MHz	46	5230MHz	48	5240MHz	/	/
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745MHz	151	5755MHz	153	5765MHz	155	5775MHz
157	5785MHz	159	5795MHz	161	5805MHz	/	/
165	5825MHz	/					

Note:

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

Test channel	Frequency (MHz)		
	802.11 a /n20/ac20/ax20	802.11 n40/ac40/ax40	802.11ac80/ax80
Lowest channel	5180	5190	5210
Middle channel	5200	X	
Highest channel	5240		

Test channel	Frequency (MHz)		
	802.11 a /n20/ac20/ax20	802.11 n40/ac40/ax40	802.11ac80/ax80
Lowest channel	5745	5755	5775
Middle channel	5785	X	
Highest channel	5825		

2.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
<i>Remark: For battery operated equipment, the EUT was performed using a new DC 14.8V</i>	

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:

Pretest Mode	Description
Mode 1	802.11a / n20/ ac20ax20 CH36/CH40/CH48 802.11a /n 20/ac 20/ax40 CH149/CH157/CH165
Mode 2	802.11n 40/ac40/ax40 CH38/CH46 802.11n 40/ac40/ax40 CH 151/CH159
Mode 3	802.11 ac80/ax80 CH 42/CH155
Mode 4	/
Mode 5	Link Mode

Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a / n20/ ac20ax20 CH36/CH40/CH48 802.11a /n 20/ac 20/ax40 CH149/CH157/CH165
Mode 2	802.11n 40/ac40/ax40 CH38/CH46 802.11n 40/ac40/ax40 CH 151/CH159
Mode 3	802.11 ac80/ax80 CH 42/CH155
Mode 4	/

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

2.3 Description of Support Units

No.	Description	Manufacturer	Model	Serial Number
1	Mouse	DELL	MS116	/
2	Laptop	DELL	Vostro 3520	/

2.4 Test Facility

Test laboratory:	Shenzhen ETR Standard Technology Co., Ltd.
CNAS Registration Number:	L11864
A2LA Certificate Number:	6640.01
FCC Designation Number:	CN1326
FCC Test Firm Registration:	183064
IC Company Number:	28440
IC CAB identifier:	CN0132
Laboratory location:	No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

2.5 Additional Instructions

Test Software	Manufacturer-specific serial commands
Power level setup	Default



3 Test Instruments list

Conducted Emission

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI3	102696	2026.3.05	2027.3.04
2	Artificial power network	schwarabeck	NSLK8127	8127483	2026.3.05	2027.3.04
3	Artificial power network	ETS	3186/2NM	1132	2026.3.05	2027.3.04
4	10dB attenuator	HUBER+SUHNER	10dB	/	2026.3.05	2027.3.04
5	Cable 4	HUBER SUNNER	3M	/	2026.3.05	2027.3.04
6	Absorbing Clamp	schwarabeck	MDS21	D69250	2026.3.05	2027.3.04

Radiated Emission & RF Conducted test:

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101032	2026.3.05	2027.3.04
2	Broadband antenna	schwarabeck	VULB9168	1064	2026.3.11	2028.3.10
3	Horn antenna	schwarabeck	BBHA9120D	9120D-1145	2026.3.08	2028.3.07
4	Amplifier	EMtrace	RP01A	50117	2026.3.05	2027.3.04
5	Amplifier	Space-Dtronics	EWLAN0118G-P40	19113001	2026.3.05	2027.3.04
6	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2026.3.05	2027.3.04
7	Power detector meter	MWRFtest	MW100-PSB	MW201020JYT	2026.3.05	2027.3.04
8	Signal generator	Agilent	N5182A	MY49060455	2026.3.05	2027.3.04
9	Spectrum analyzer	Rohde&schwarz	FSV-40N	102137	2026.3.05	2027.3.04
10	Amplifier	SKET	LNPA_1840-50	SK2019040302	2026.3.05	2027.3.04
11	Horn antenna	schwarabeck	BBHA 9170	946	2026.3.08	2028.3.07
12	Loop antenna	schwarabeck	FMZB 1519 B	128	2026.3.08	2028.3.07
13	Cable 6	HUBER SUNNER	0.5M	/	2026.3.05	2027.3.04
14	Cable7	HUBER SUNNER	2.0M	/	2026.3.05	2027.3.04
15	Cable8	HUBER SUNNER	6.0M	/	2026.3.05	2027.3.04
16	Filter	Xin bo	XBLBQ-GTA29	210410-3-2	2026.3.05	2027.3.04
17	Power Sensor	Keysight	U2021XA	MY54111006	2026.3.05	2027.3.04
18	Temp. & Humidity Chamber	Jiecheng Instrument	QA-LP-80	20160705001	2026/3/06	2027/3/05

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

Software Name	Manufacturer	Model	Version
RF test software	MWRFtest	MTS 8310	V2.0.0.0
Conducted test software	EZ-EMC	Farad	Ver.EMC-CON 3A1.1
Radiated test software	EZ-EMC	Farad	Ver.FA-03A2 RE

4 Test results and Measurement Data

4.1 Antenna requirement

Standard requirement:	47CFR Part 15.203
<i>15.203 requirement:</i> <i>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.</i>	
E.U.T Antenna:	
The antenna is Metal plate antenna, the best case gain of the antenna is 2.93dBi, reference to the internal photo for details.	

4.2 Conducted Emissions

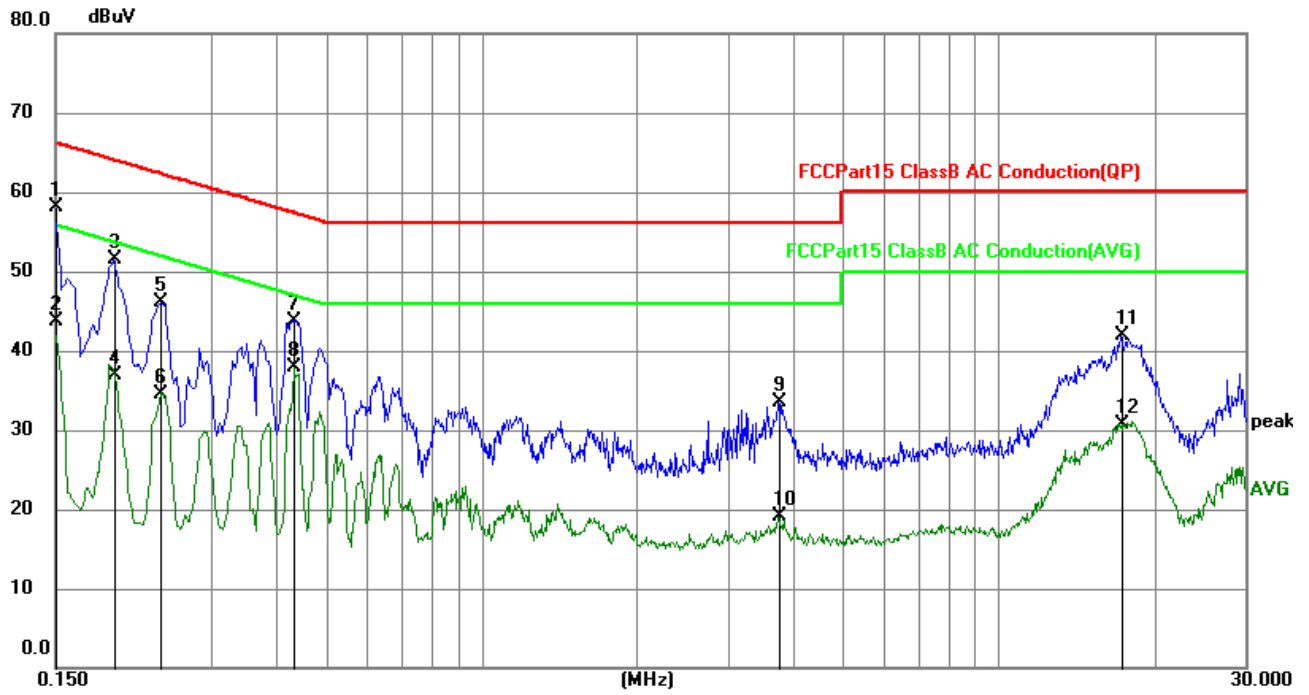
Test Requirement:	47CFR Part 15.207					
Test Method:	ANSI C63.10-2020+Cor.1-2023 §6.2					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto					
Limit:	Frequency range (MHz)		Limit (dBuV)			
			Quasi-peak		Average	
	0.15-0.5		66 to 56*		56 to 46*	
	0.5-5		56		46	
	5-30		60		50	
* Decreases with the logarithm of the frequency.						
Test setup:	Reference Plane <i>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network</i>					
Test procedure:	- EUT is placed on a plane 12mm above the ground through an insulated bracket, 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. - The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). - Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10-2020+Cor.1-2023 on conducted measurement.					
Test Instruments:	Refer to section 3.0 for details					
Test mode:	Refer to section 2.2 for details					
Test environment:	Temp.:	23.5°C	Humid.:	45%	Press.:	1012mbar
Test voltage:	AC 120V 60Hz					
Test results:	Pass					

Remark:

1. Both high voltage and low voltage have been tested, and the report only shows the worst case data with AC 120V/60Hz.
2. All mode have been tested, the report only shows the worst 802.11ac20 mode (5200MHz) data.

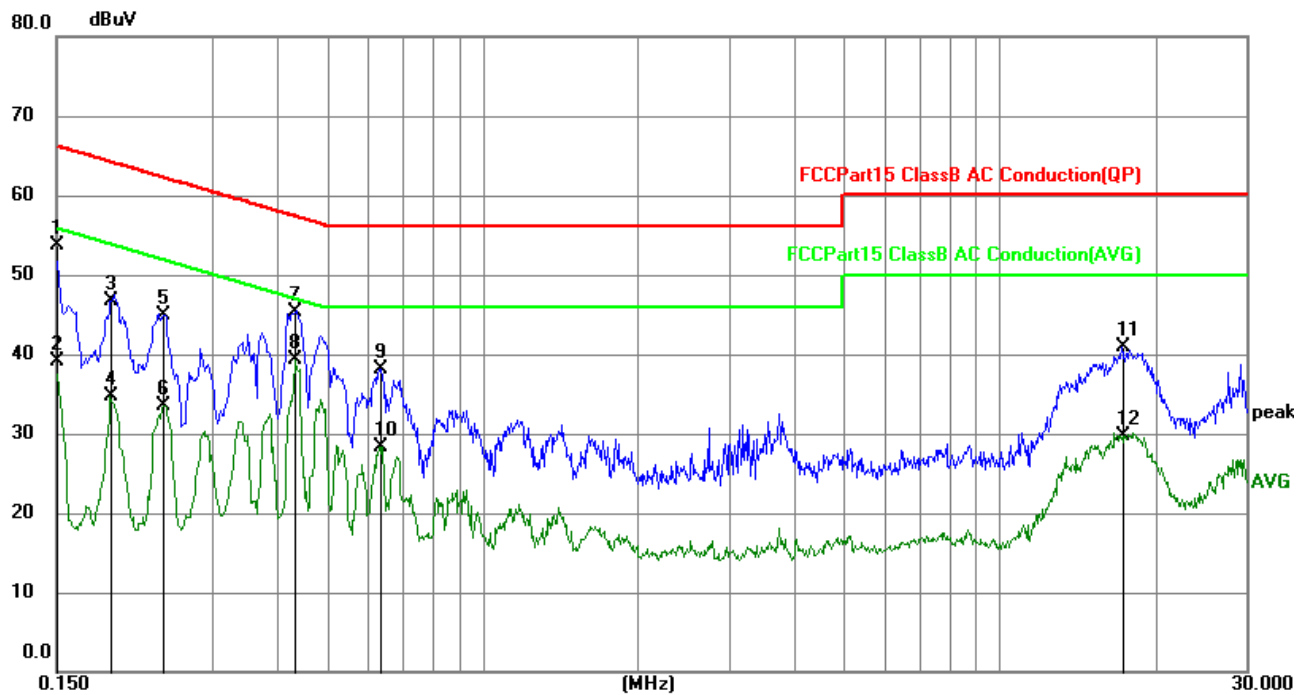
Measurement Result

Line:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	48.22	9.97	58.19	66.00	-7.81	QP
2	0.1500	33.68	9.97	43.65	56.00	-12.35	AVG
3	0.1949	41.63	9.97	51.60	63.83	-12.23	QP
4	0.1949	26.99	9.97	36.96	53.83	-16.87	AVG
5	0.2400	36.21	9.98	46.19	62.10	-15.91	QP
6	0.2400	24.62	9.98	34.60	52.10	-17.50	AVG
7	0.4335	33.73	10.06	43.79	57.19	-13.40	QP
8	0.4335	27.77	10.06	37.83	47.19	-9.36	AVG
9	3.7590	23.39	10.02	33.41	56.00	-22.59	QP
10	3.7590	9.00	10.02	19.02	46.00	-26.98	AVG
11	17.2500	31.97	9.97	41.94	60.00	-18.06	QP
12	17.2500	20.67	9.97	30.64	50.00	-19.36	AVG

Neutral:

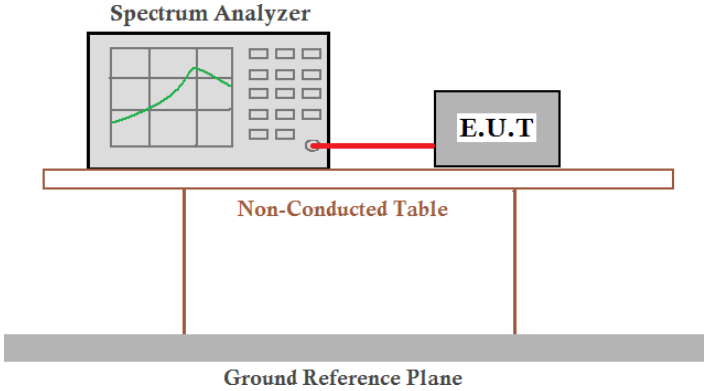


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	43.72	9.97	53.69	66.00	-12.31	QP
2	0.1500	29.18	9.97	39.15	56.00	-16.85	AVG
3	0.1905	36.82	9.97	46.79	64.01	-17.22	QP
4	0.1905	24.81	9.97	34.78	54.01	-19.23	AVG
5	0.2416	34.99	9.98	44.97	62.04	-17.07	QP
6	0.2416	23.53	9.98	33.51	52.04	-18.53	AVG
7	0.4334	35.23	10.06	45.29	57.19	-11.90	QP
8	0.4334	29.27	10.06	39.33	47.19	-7.86	AVG
9	0.6312	28.08	10.08	38.16	56.00	-17.84	QP
10	0.6312	18.28	10.08	28.36	46.00	-17.64	AVG
11	17.2500	30.97	9.97	40.94	60.00	-19.06	QP
12	17.2500	19.73	9.97	29.70	50.00	-20.30	AVG

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

4.3 Duty cycle

Test Method :	ANSI C63.10-2020+Cor.1-2023§ 12.2	
Limit:	/	
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 23.5°C	Humid.: 45%RH
Test voltage:	DC14.8V from Battery	
Test results:	Pass	



Measurement Result

5180-5240MHz

Mode	Duty cycle (%)	Correction Factor (dB)
TX 802.11a Mode	100	0
TX 802.11n20 Mode	100	0
TX 802.11ac20 Mode	100	0
TX 802.11n40 Mode	100	0
TX 802.11ac40 Mode	100	0
TX 802.11ac80 Mode	100	0
TX 802.11ax20 Mode	100	0
TX 802.11ax40 Mode	100	0
TX 802.11ax80 Mode	100	0

5745-5825 MHz

Mode	Duty cycle (%)	Correction Factor (dB)
TX 802.11a Mode	100	0
TX 802.11n20 Mode	100	0
TX 802.11ac20 Mode	100	0
TX 802.11n40 Mode	100	0
TX 802.11ac40 Mode	100	0
TX 802.11ac80 Mode	100	0
TX 802.11ax20 Mode	100	0
TX 802.11ax40 Mode	100	0
TX 802.11ax80 Mode	100	0

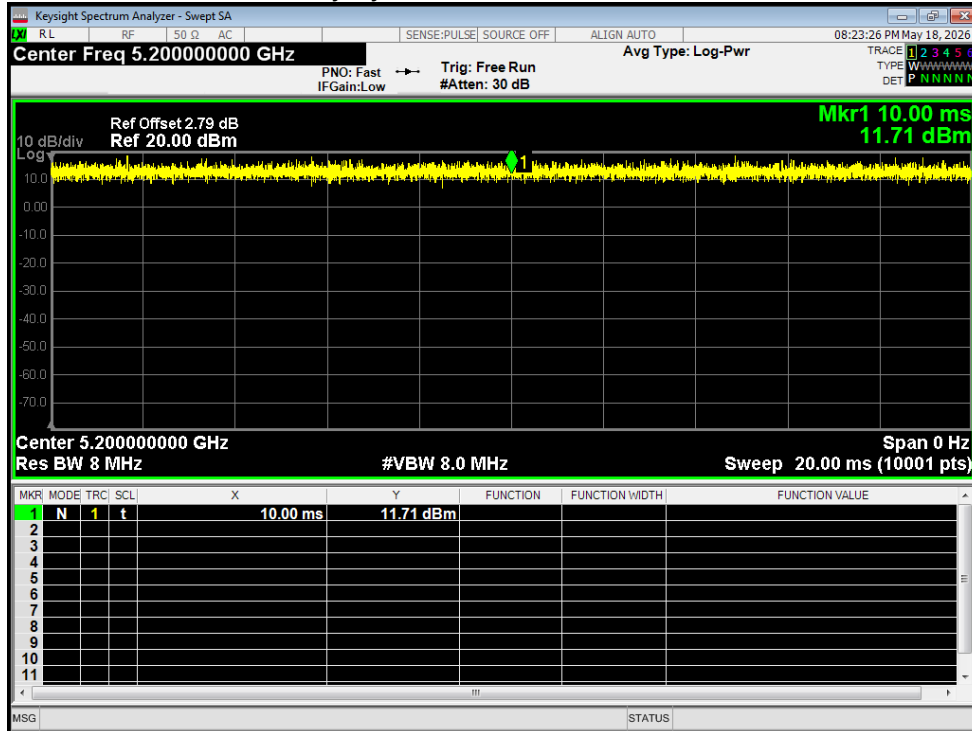
Note: Duty cycle factor (dB) = $10 * \log (1 / \text{Duty cycle})$



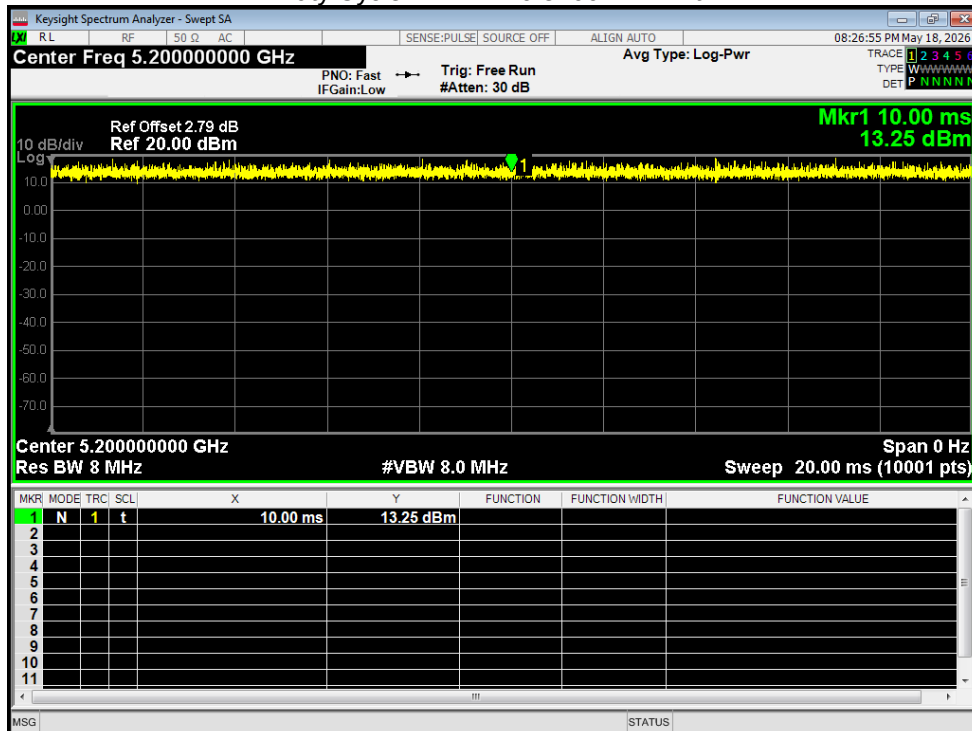
Test plot

5180-5240MHz

Duty Cycle NVNT a 5200MHz Ant1

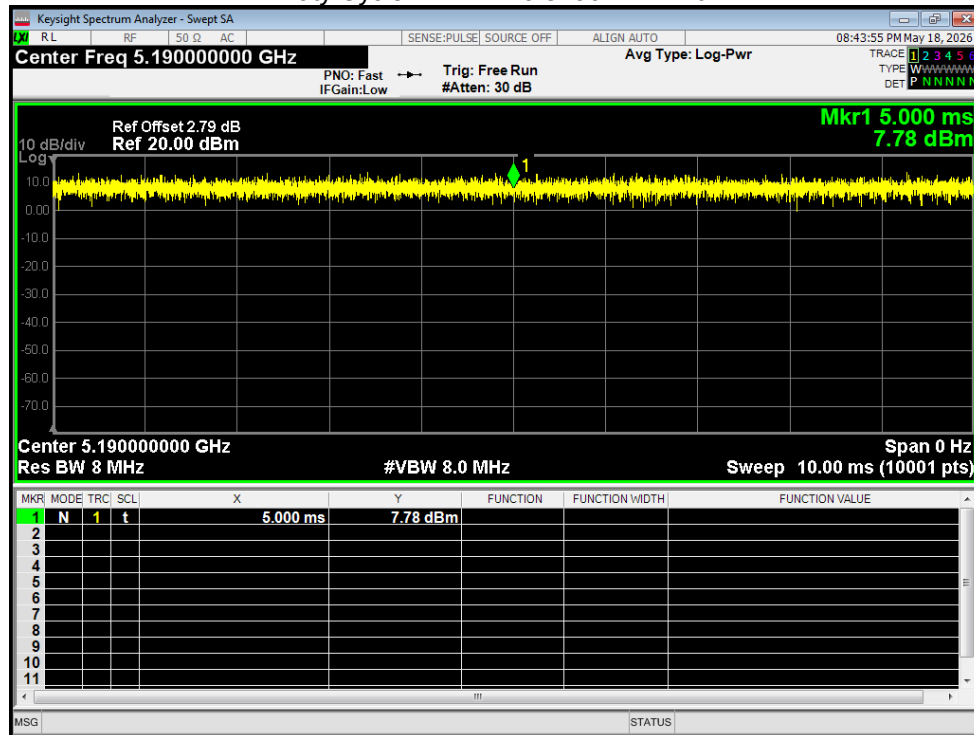


Duty Cycle NVNT n20 5200MHz Ant1

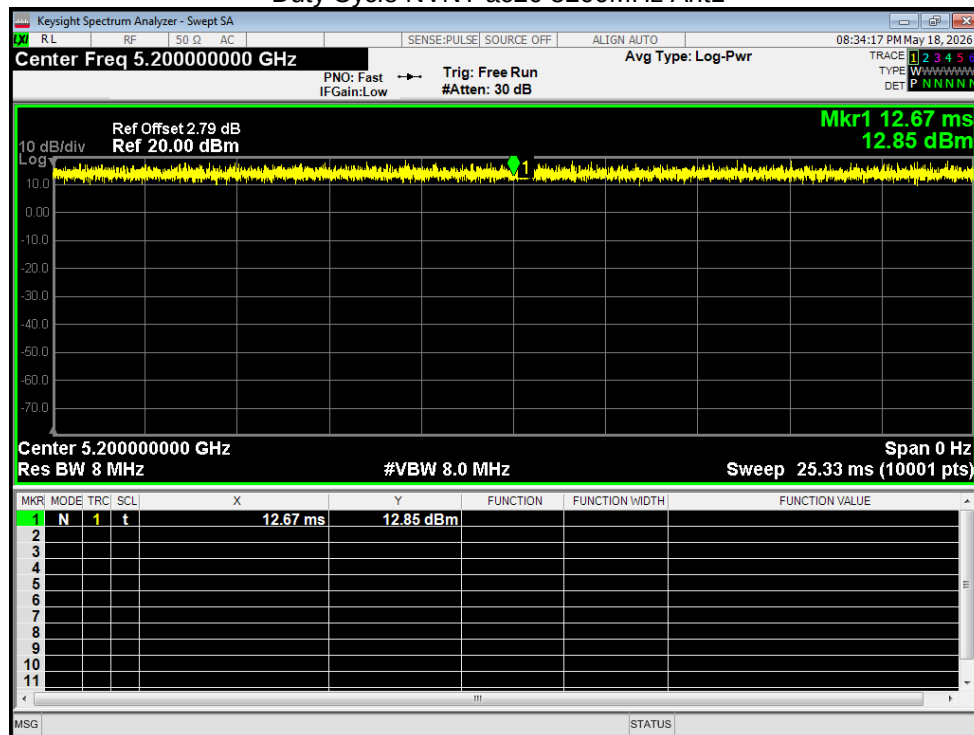




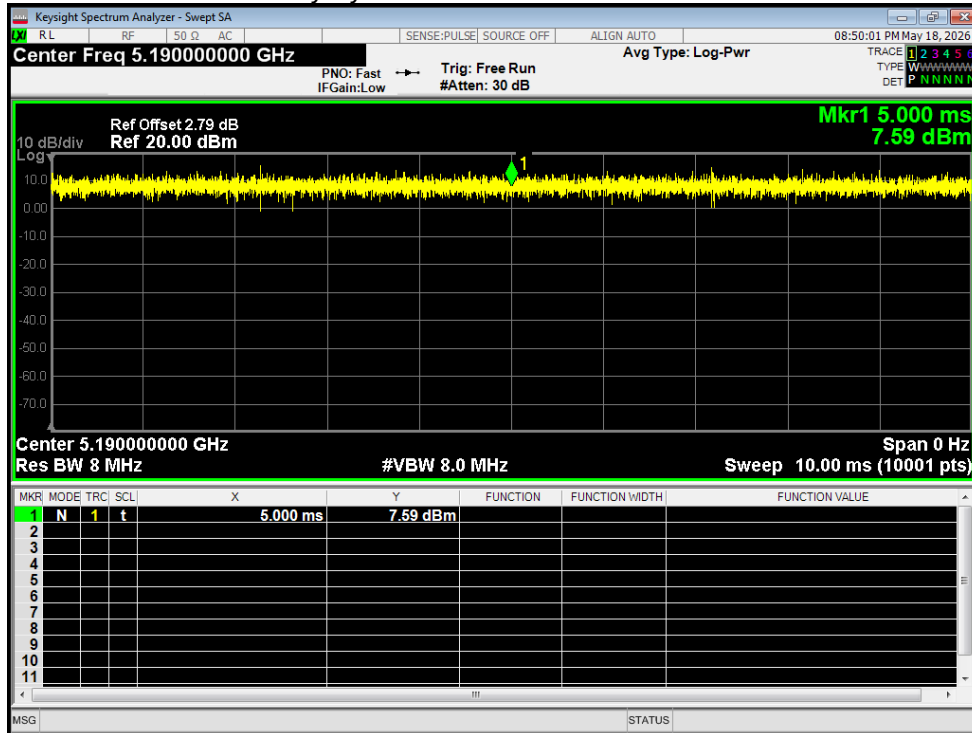
Duty Cycle NVNT n40 5190MHz Ant1



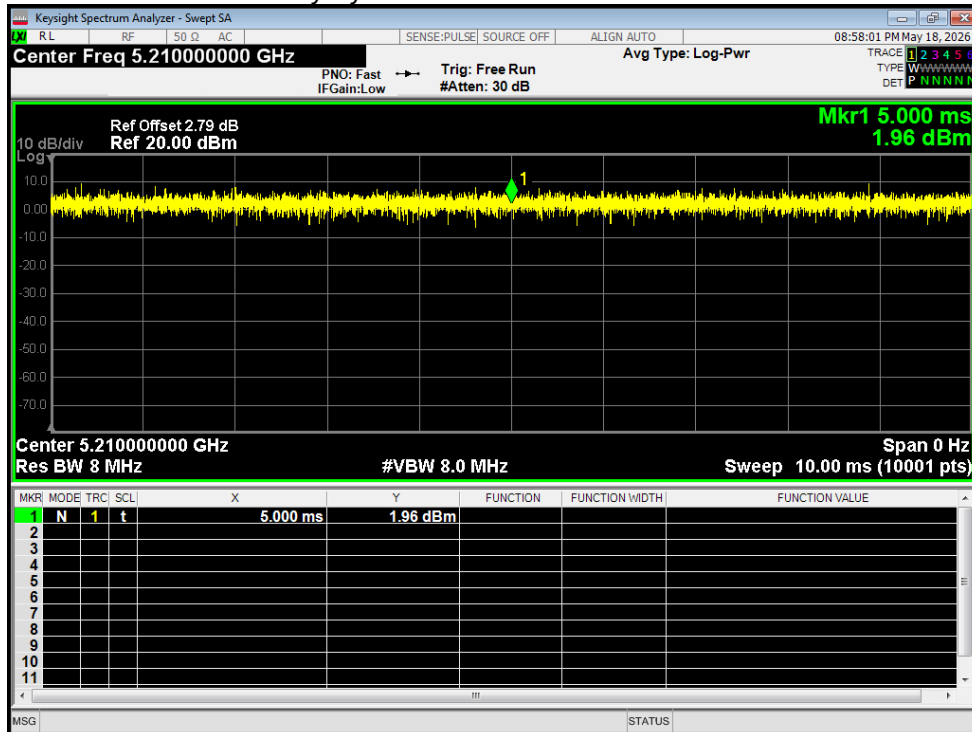
Duty Cycle NVNT ac20 5200MHz Ant1



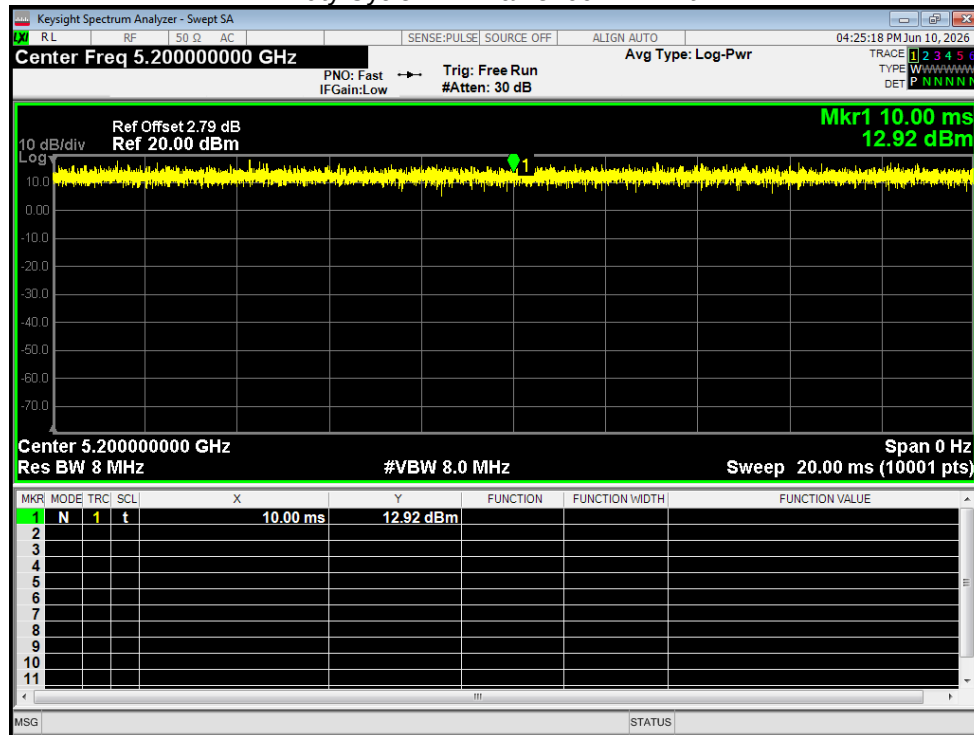
Duty Cycle NVNT ac40 5190MHz Ant1



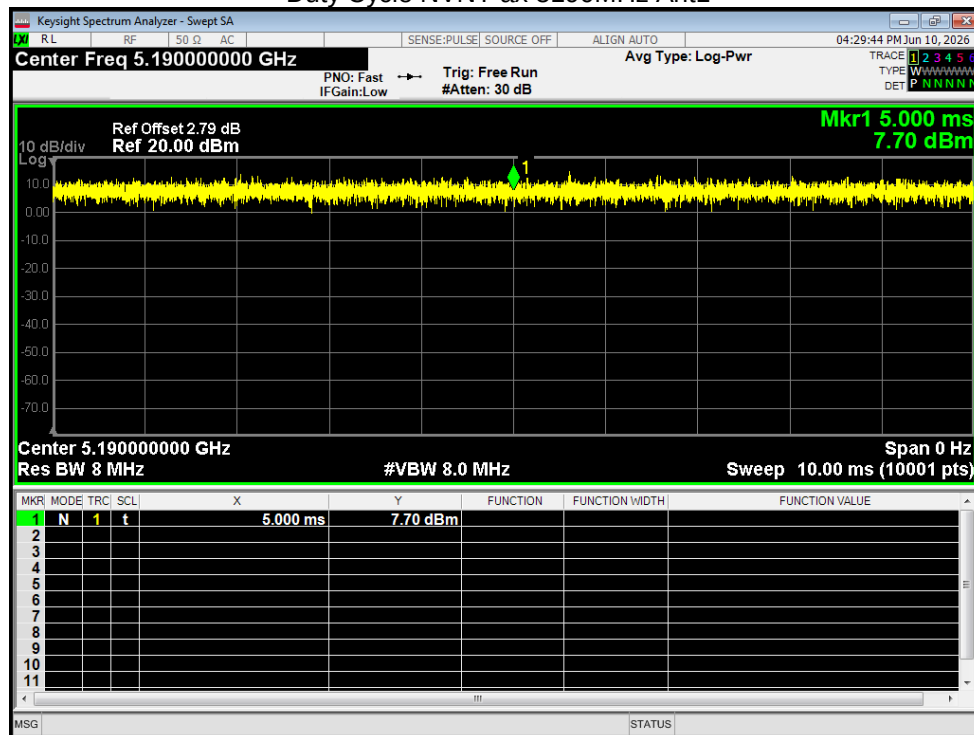
Duty Cycle NVNT ac80 5210MHz Ant1



Duty Cycle NVNT ax 5200MHz Ant1

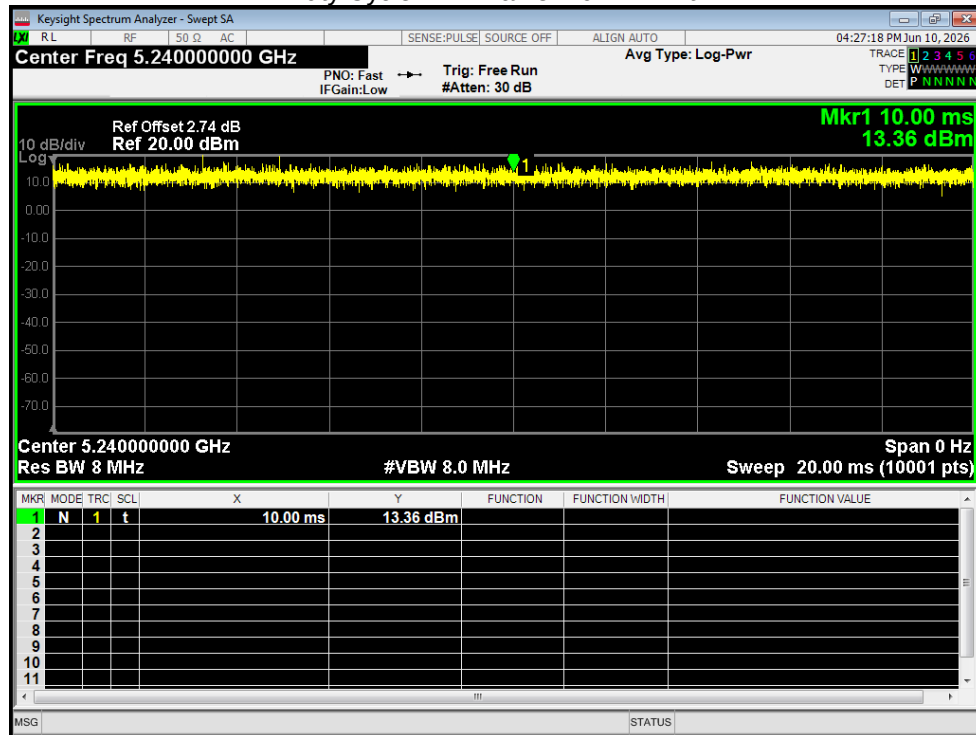


Duty Cycle NVNT ax 5190MHz Ant1





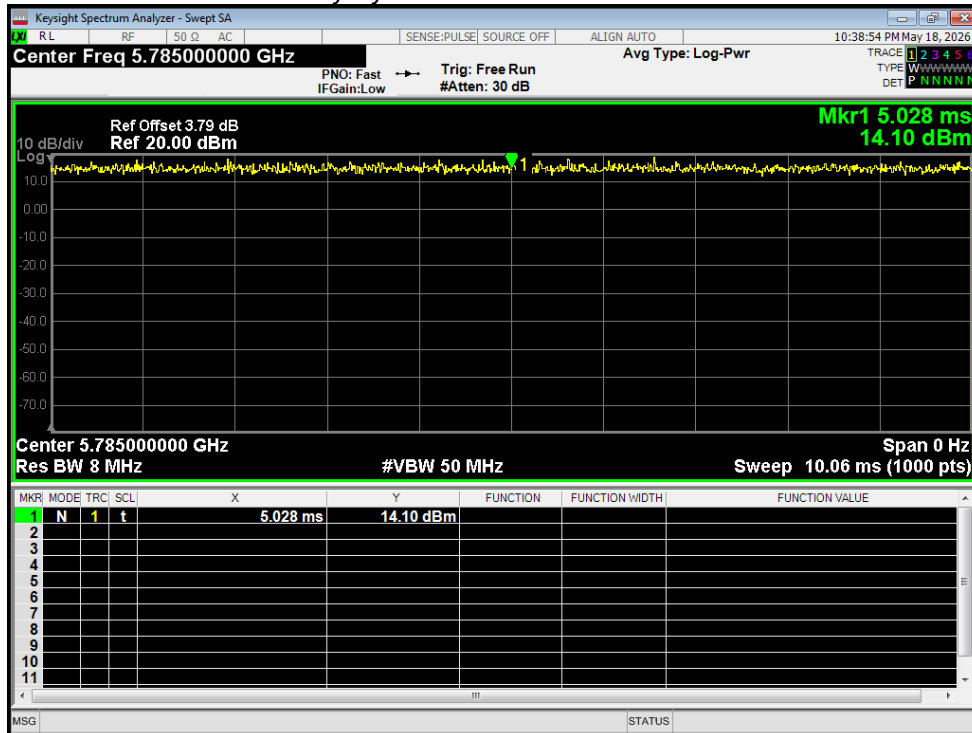
Duty Cycle NVNT ax 5240MHz Ant1



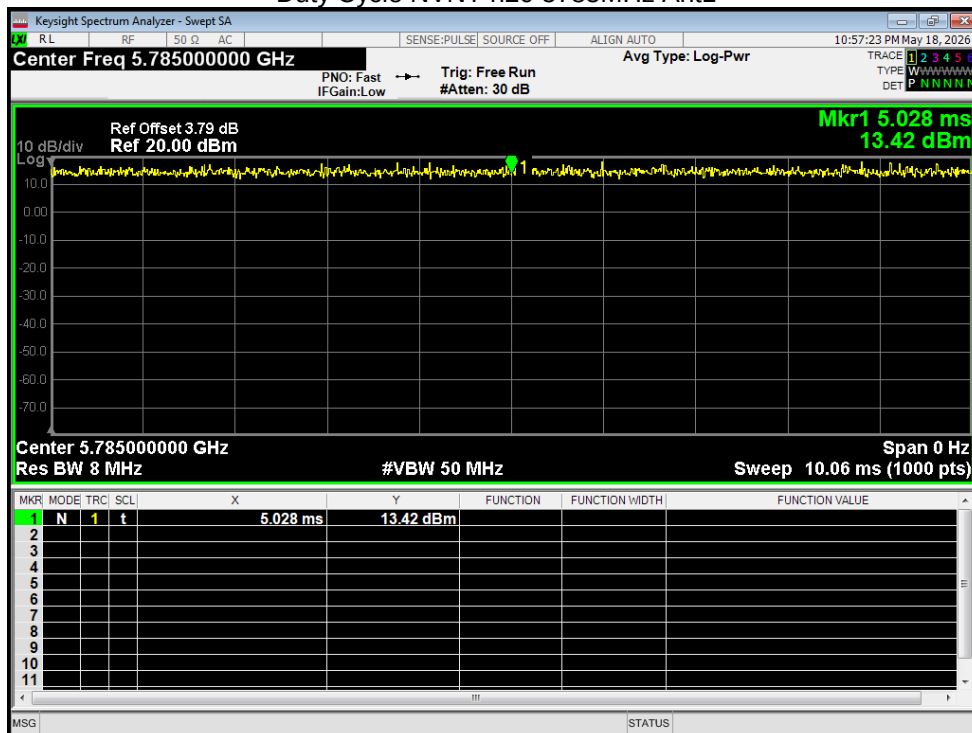


5745-5825 MHz

Duty Cycle NVNT a 5785MHz Ant1

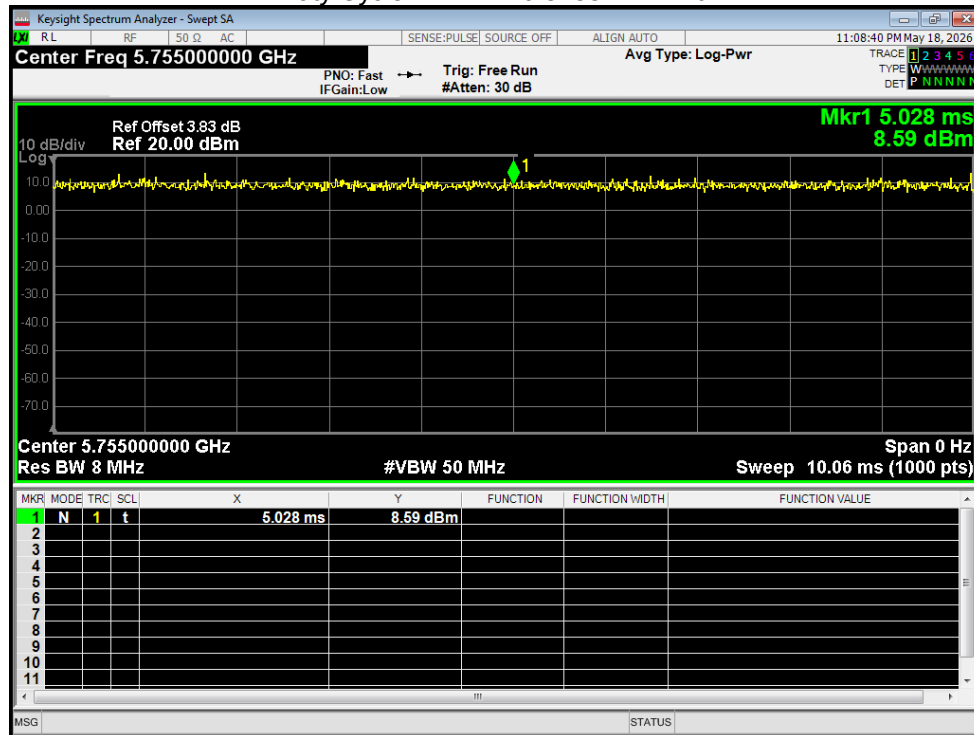


Duty Cycle NVNT n20 5785MHz Ant1

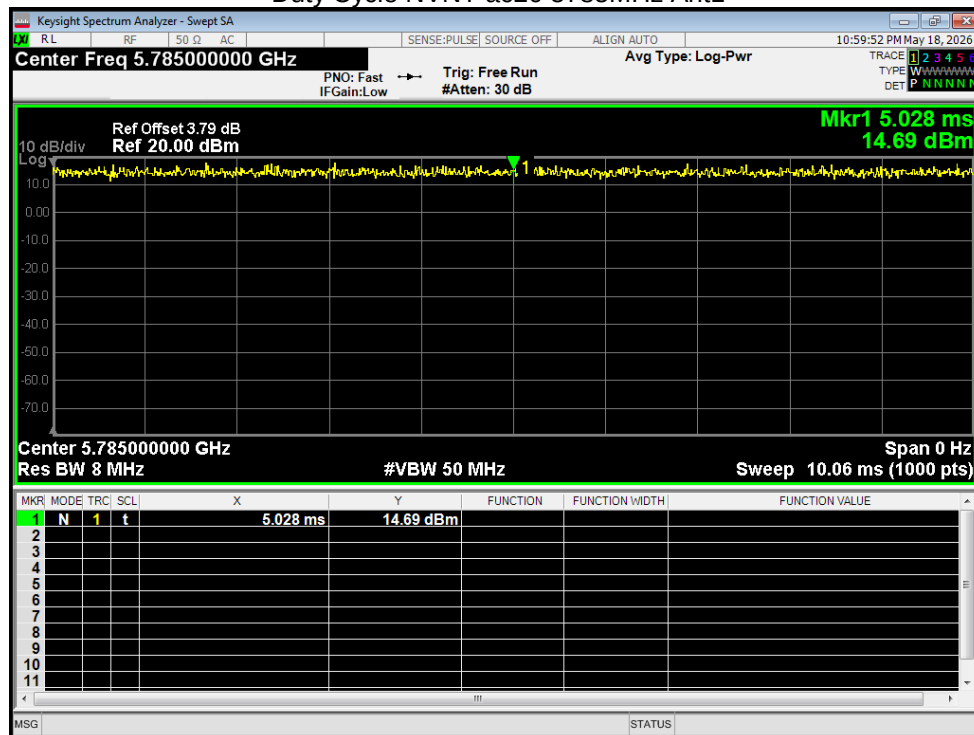




Duty Cycle NVNT n40 5755MHz Ant1

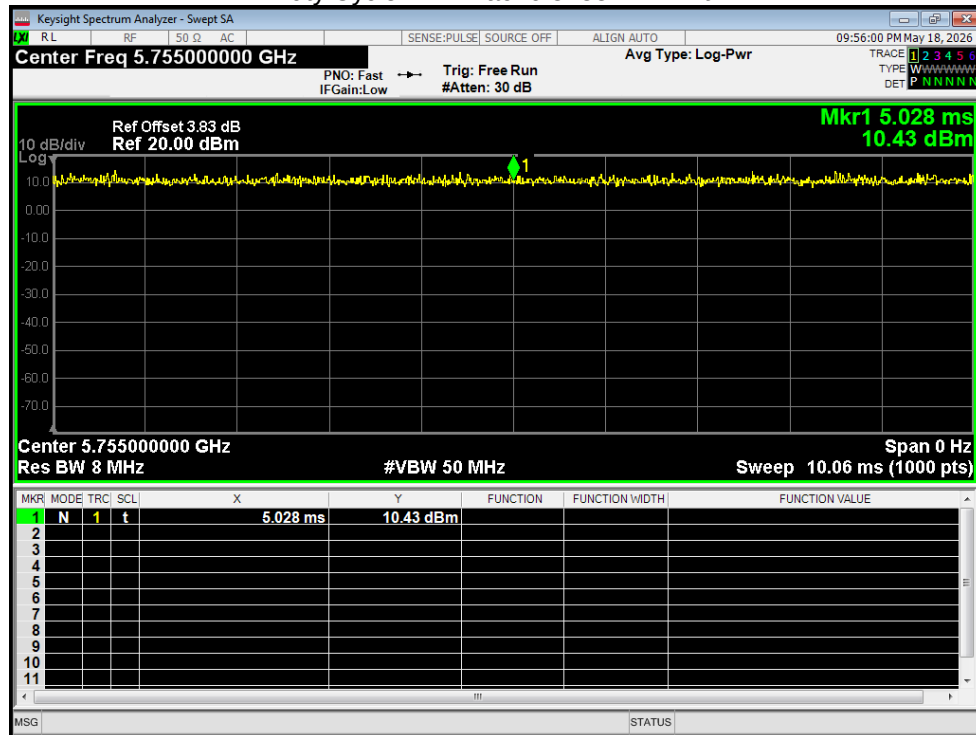


Duty Cycle NVNT ac20 5785MHz Ant1

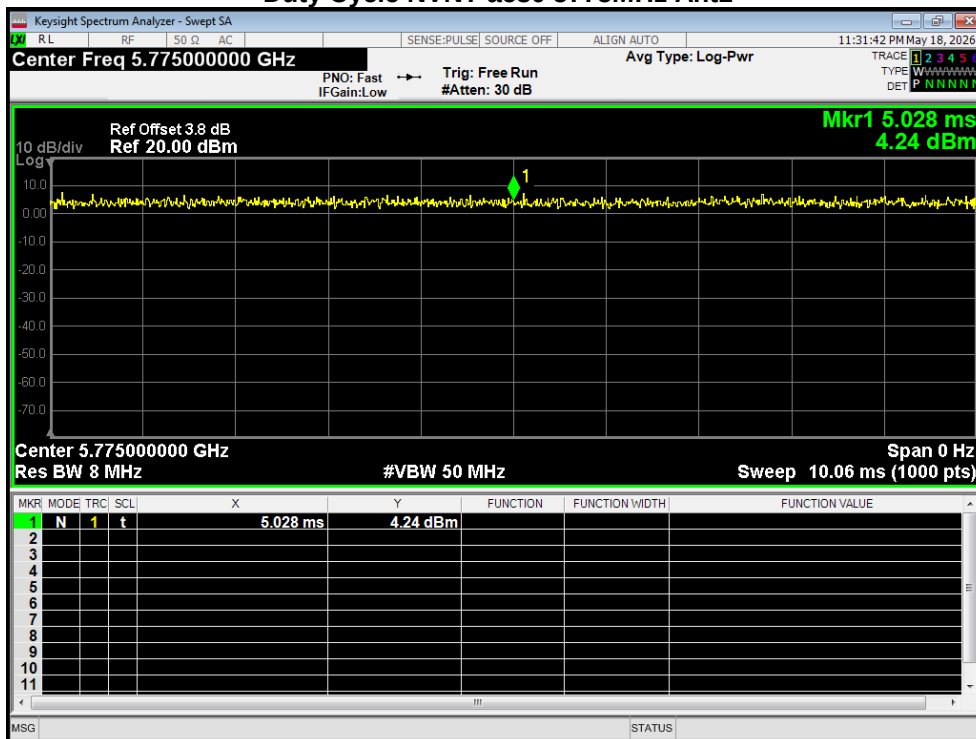




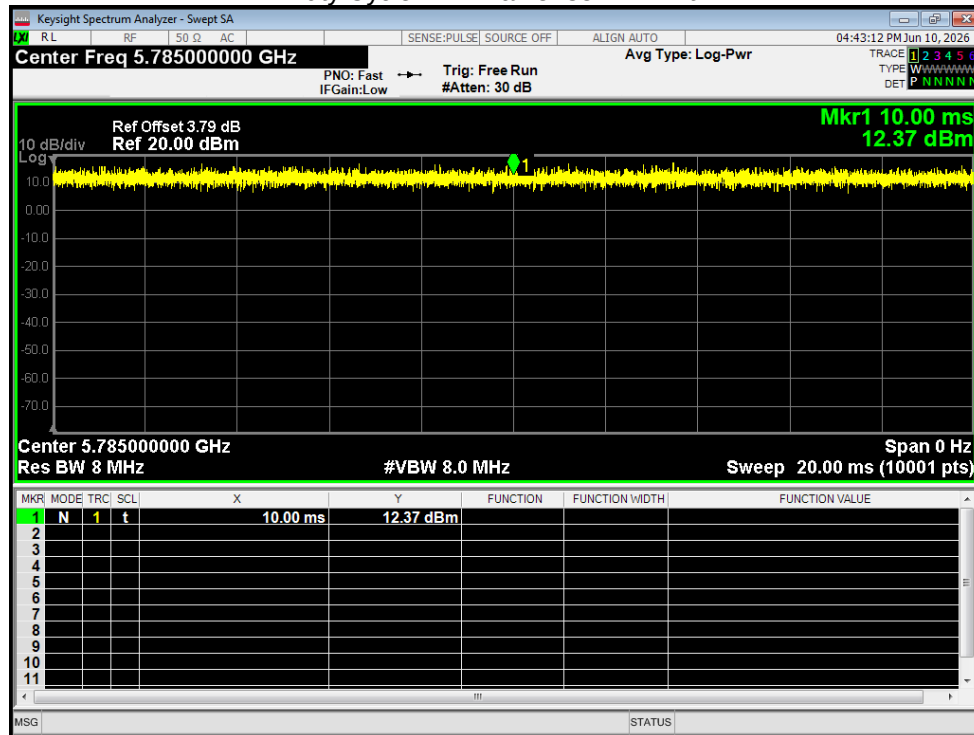
Duty Cycle NVNT ac40 5755MHz Ant1



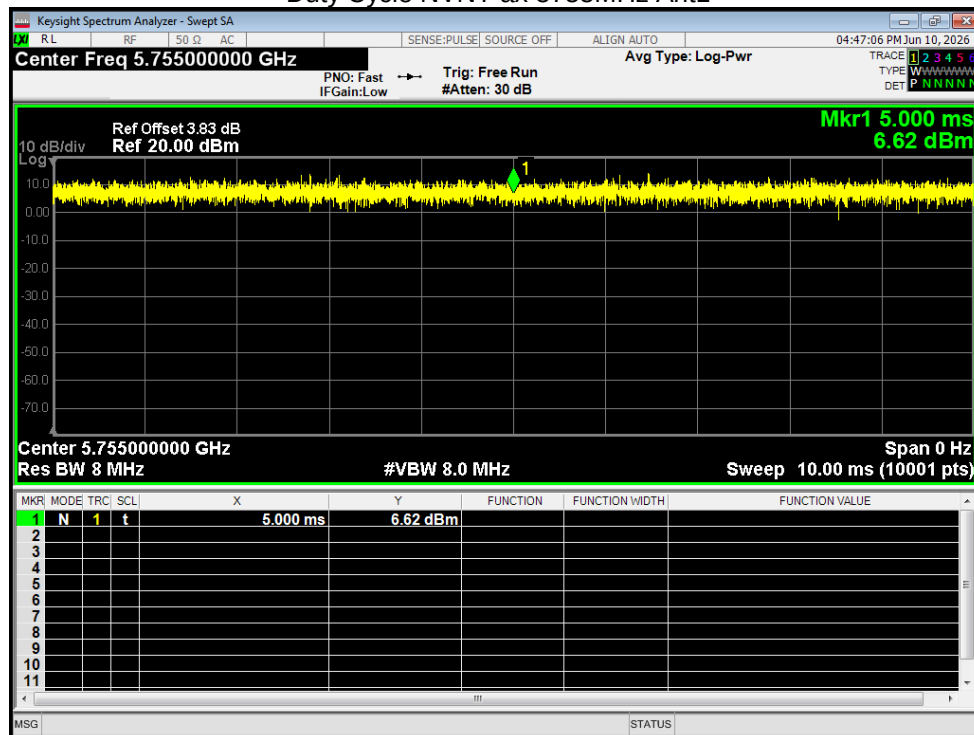
Duty Cycle NVNT ac80 5775MHz Ant1



Duty Cycle NVNT ax 5785MHz Ant1

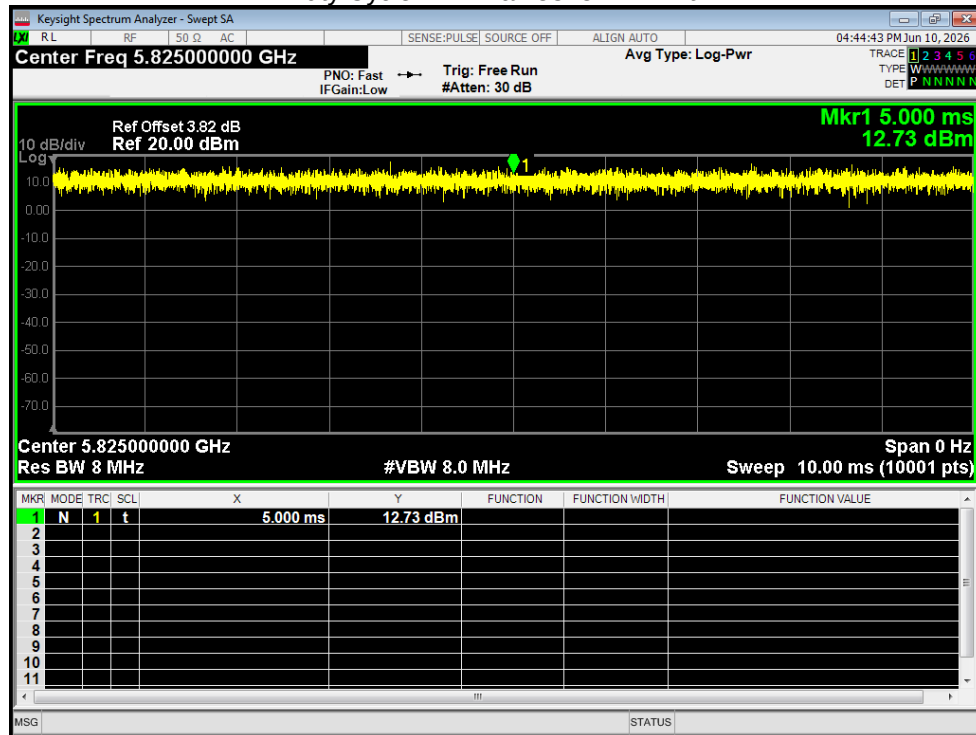


Duty Cycle NVNT ax 5755MHz Ant1

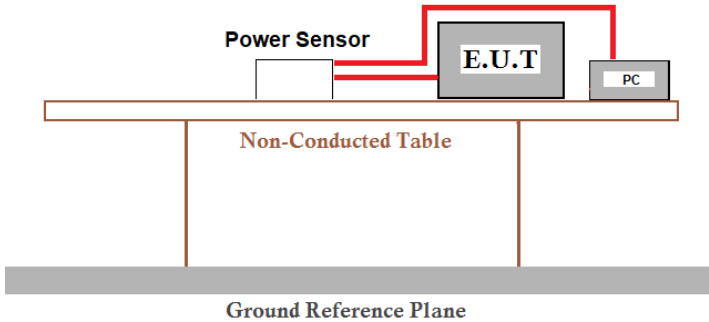




Duty Cycle NVNT ax 5825MHz Ant1



4.4 Conducted Output Power

Test Requirement:	47CFR Part 15.407 (a)(1)/(a)(3)	
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 ANSI C63.10-2020+Cor.1-2023 § 12.4.3.1	
Limit:	5150-5250MHz : 250mW 5725~5850MHz : 1W	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 23.5°C	Humid.: 45%RH
Test voltage:	DC14.8V from Battery	
Test results:	Pass	



Measurement Result

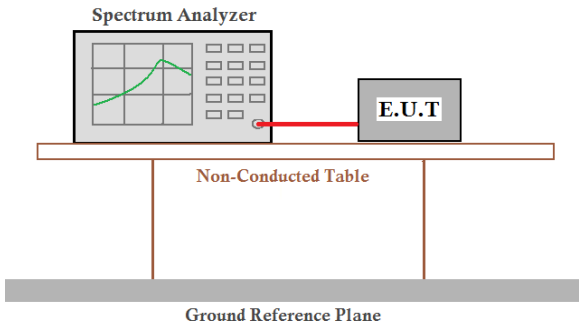
5180-5240MHz

Test Mode	Frequency	Correction Factor	Output power	Total Power	Result
	(MHz)	(dB)	(dBm)	(dBm)	
802.11a	5180	0	14.52	14.52	Pass
	5200	0	14.47	14.47	Pass
	5240	0	14.68	14.68	Pass
802.11n20	5180	0	14.48	14.48	Pass
	5200	0	14.73	14.73	Pass
	5240	0	14.87	14.87	Pass
802.11n40	5190	0	13.39	13.39	Pass
	5230	0	13.40	13.40	Pass
802.11ac20	5180	0	14.59	14.59	Pass
	5200	0	14.79	14.79	Pass
	5240	0	14.72	14.72	Pass
802.11ac40	5190	0	13.37	13.37	Pass
	5230	0	13.48	13.48	Pass
802.11ac80	5210	0	12.20	12.20	Pass
802.11ax20	5180	0	14.62	14.62	Pass
	5200	0	14.63	14.63	Pass
	5240	0	14.67	14.67	Pass
802.11ax40	5190	0	13.96	13.96	Pass
	5230	0	13.80	13.80	Pass
802.11ax80	5210	0	12.66	12.66	Pass

5745-5825 MHz

Test Mode	Frequency	Correction Factor	Output power	Total Power	Result
	(MHz)	(dB)	(dBm)	(dBm)	
802.11a	5745	0	14.59	14.59	Pass
	5785	0	14.62	14.62	Pass
	5825	0	14.65	14.65	Pass
802.11n20	5745	0	14.05	14.05	Pass
	5785	0	14.46	14.46	Pass
	5825	0	14.42	14.42	Pass
802.11n40	5755	0	13.36	13.36	Pass
	5795	0	13.63	13.63	Pass
802.11ac20	5745	0	13.99	13.99	Pass
	5785	0	14.41	14.41	Pass
	5825	0	14.44	14.44	Pass
802.11ac40	5755	0	13.53	13.53	Pass
	5795	0	13.57	13.57	Pass
802.11ac80	5775	0	14.59	14.59	Pass
802.11ax20	5745	0	14.38	14.38	Pass
	5785	0	13.96	13.96	Pass
	5825	0	14.00	14.00	Pass
802.11ax40	5755	0	13.40	13.40	Pass
	5795	0	13.23	13.23	Pass
802.11ax80	5775	0	12.30	12.30	Pass

4.5 Occupancy Bandwidth

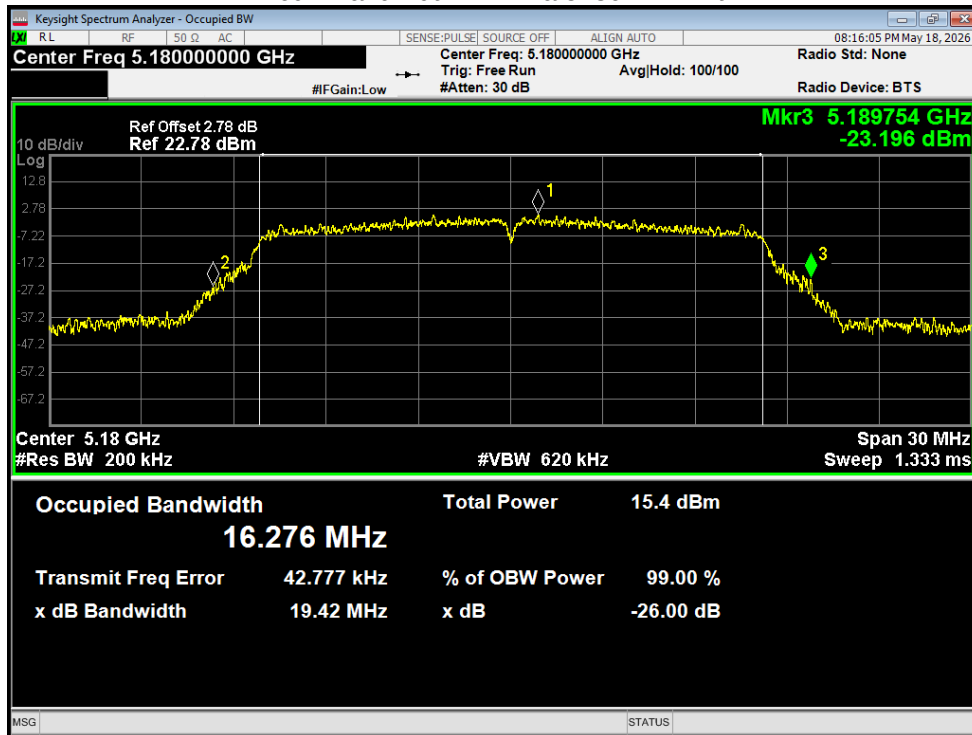
Test Requirement:	47CFR Part 15.407(a)(12)&15.407(e),	
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01, ANSI C63.10-2020+Cor.1-2023§12.5	
Limit:	Measurements in the 5.725-5.85 GHz band, the minimum bandwidth 6 dB bandwidth of U-NII devices shall be at least 500KHz. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 23.5°C	Humid.: 45%RH
Test voltage:	DC14.8V from Battery	
Test results:	Pass	

Measurement Result

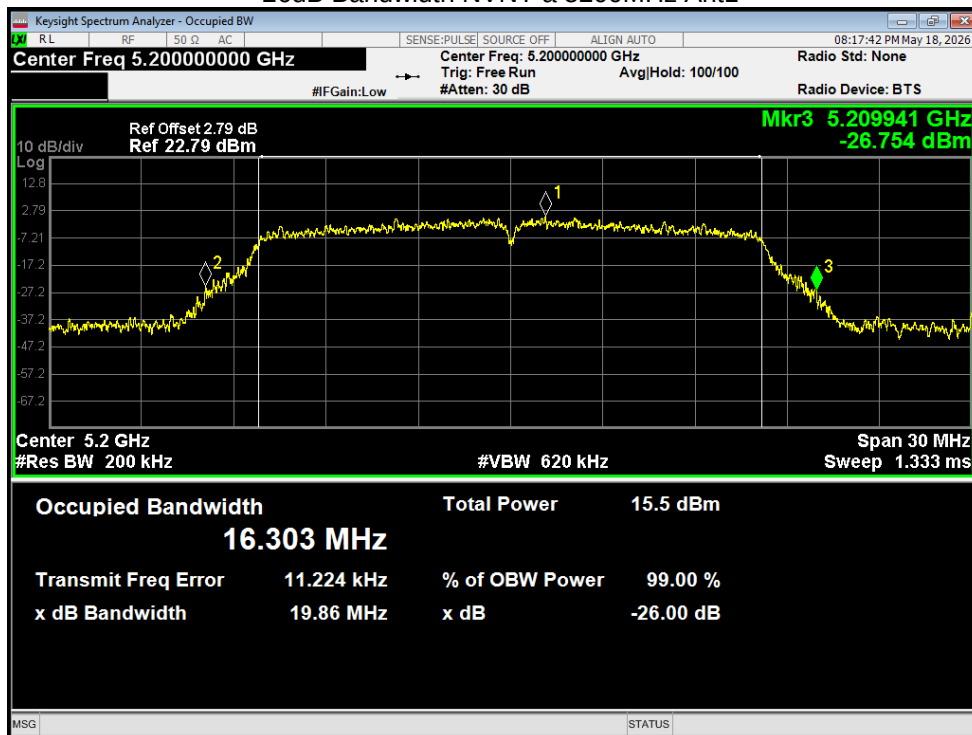
5180-5240MHz

Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	19.42	Pass
NVNT	a	5200	19.86	Pass
NVNT	a	5240	19.57	Pass
NVNT	n20	5180	20.00	Pass
NVNT	n20	5200	19.86	Pass
NVNT	n20	5240	19.76	Pass
NVNT	n40	5190	40.39	Pass
NVNT	n40	5230	39.80	Pass
NVNT	ac20	5180	19.81	Pass
NVNT	ac20	5200	19.65	Pass
NVNT	ac20	5240	20.00	Pass
NVNT	ac40	5190	40.09	Pass
NVNT	ac40	5230	40.00	Pass
NVNT	ac80	5210	79.96	Pass
NVNT	ax20	5180	19.76	Pass
NVNT	ax20	5200	19.62	Pass
NVNT	ax20	5240	19.78	Pass
NVNT	ax40	5190	39.27	Pass
NVNT	ax40	5230	39.32	Pass
NVNT	ax80	5210	80.02	Pass

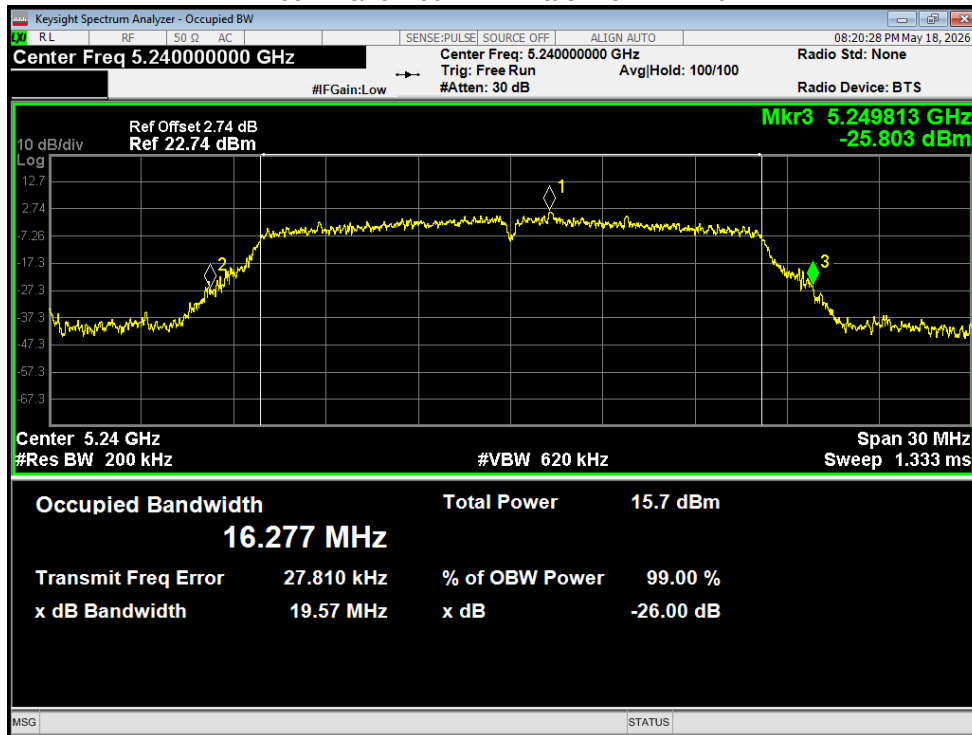
-26dB Bandwidth NVNT a 5180MHz Ant1



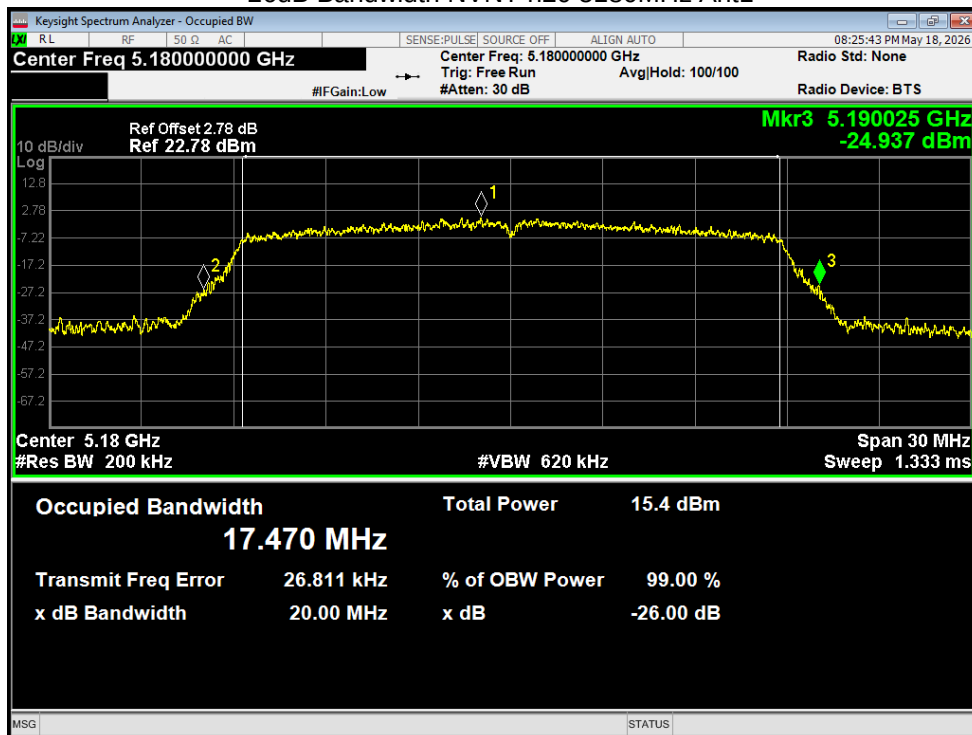
-26dB Bandwidth NVNT a 5200MHz Ant1



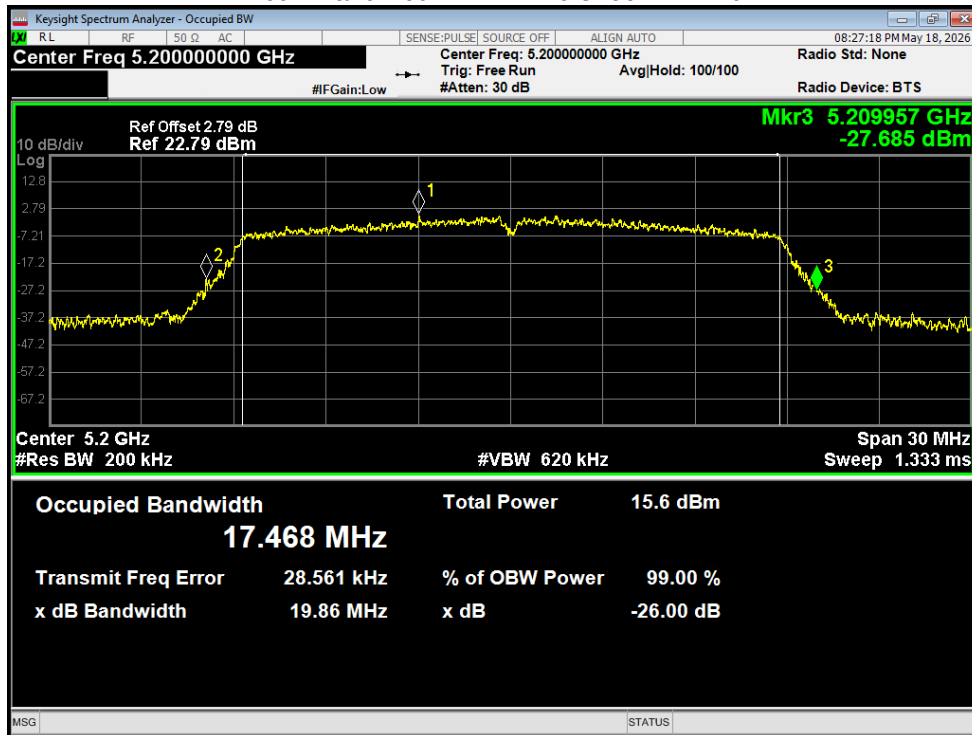
-26dB Bandwidth NVNT a 5240MHz Ant1



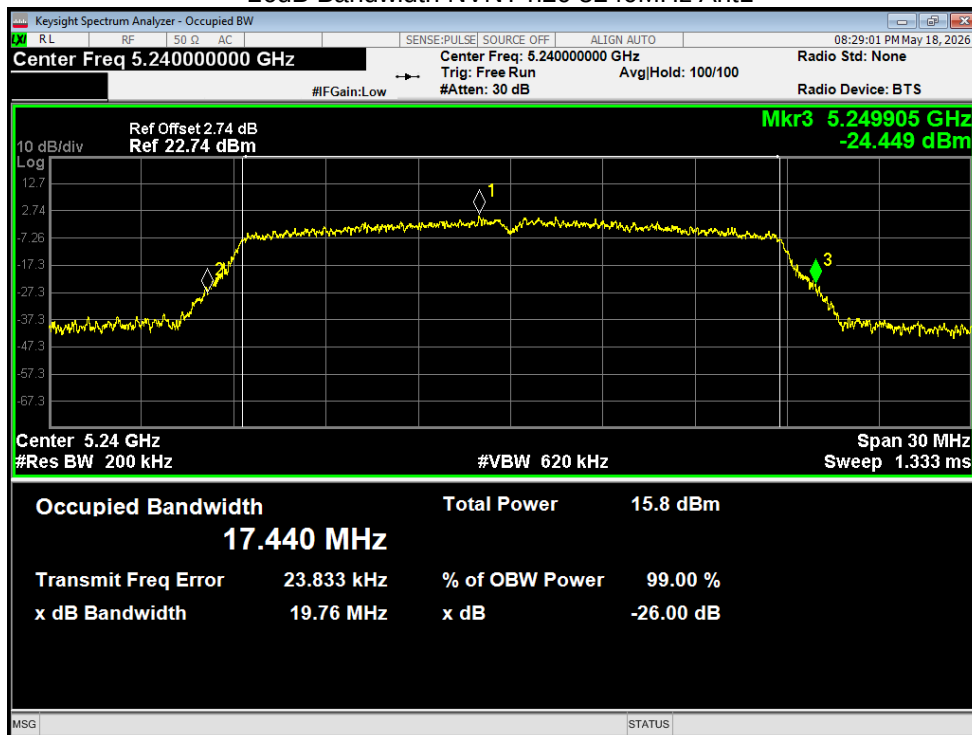
-26dB Bandwidth NVNT n20 5180MHz Ant1



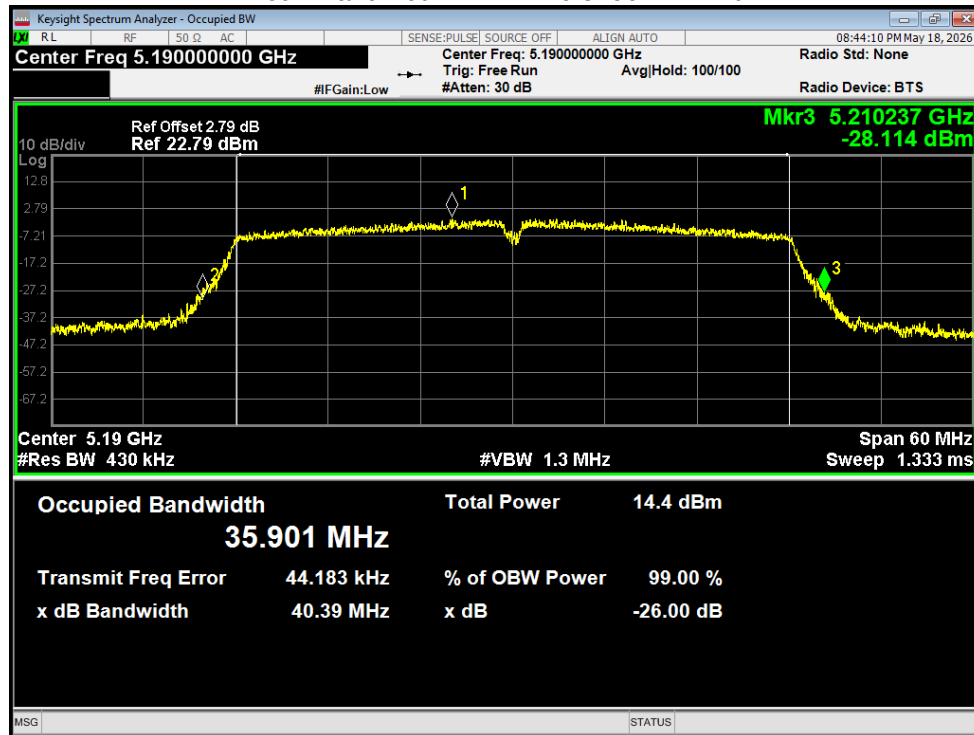
-26dB Bandwidth NVNT n20 5200MHz Ant1



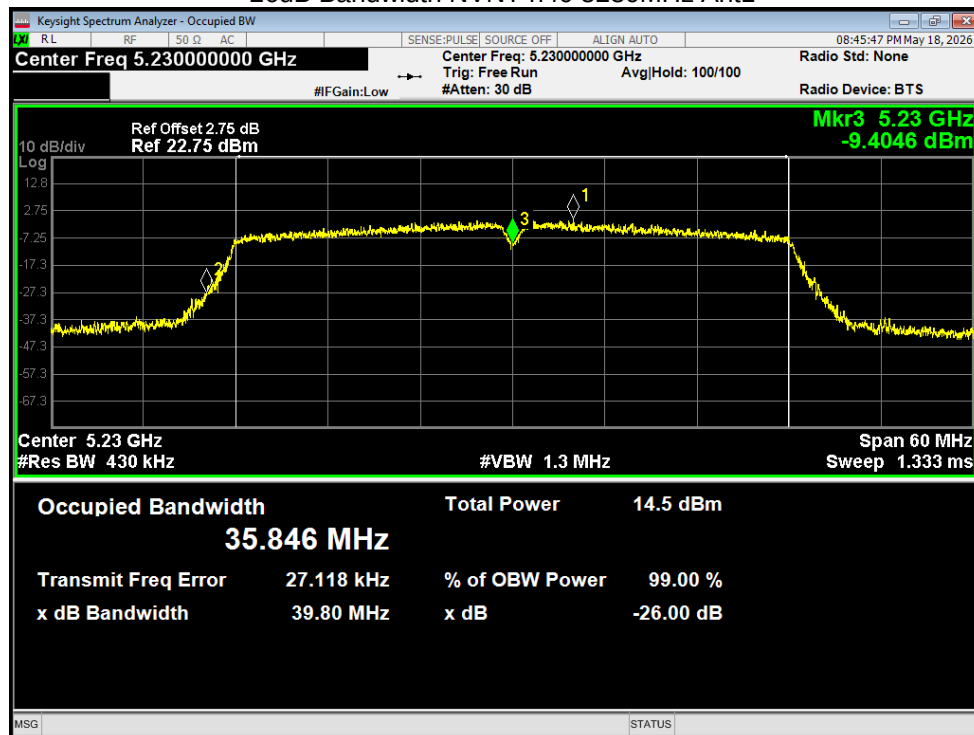
-26dB Bandwidth NVNT n20 5240MHz Ant1



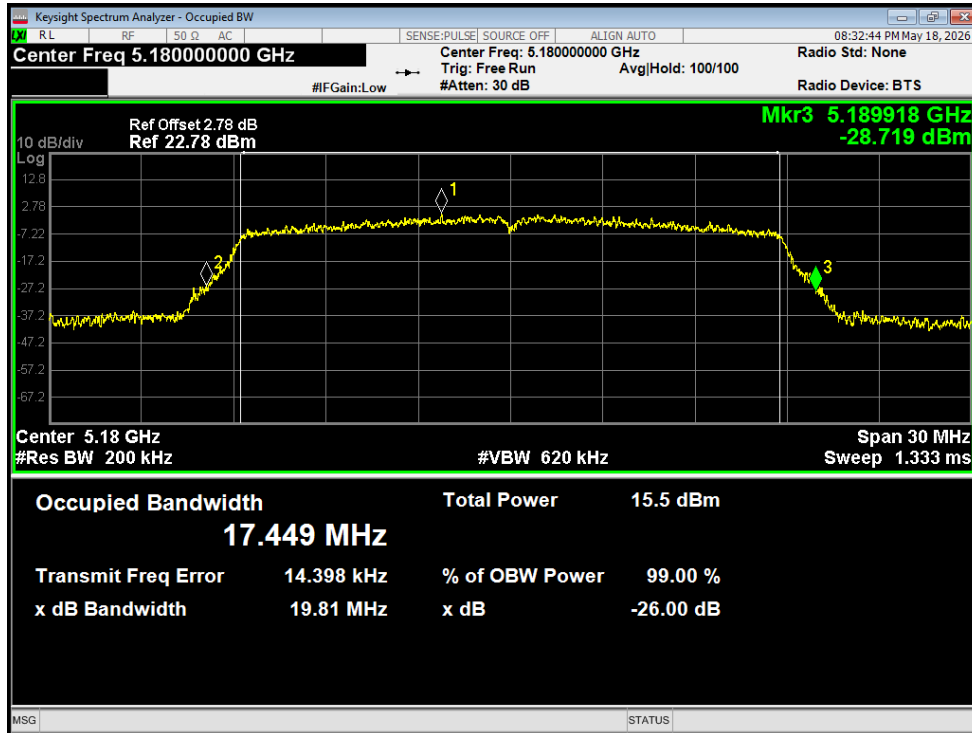
-26dB Bandwidth NVNT n40 5190MHz Ant1



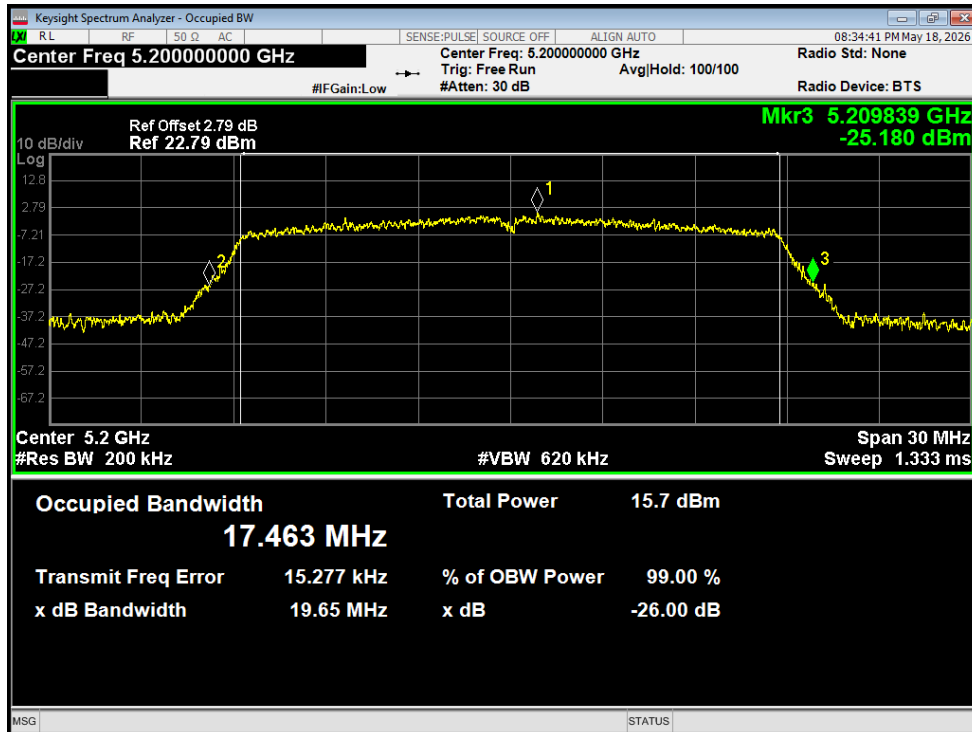
-26dB Bandwidth NVNT n40 5230MHz Ant1



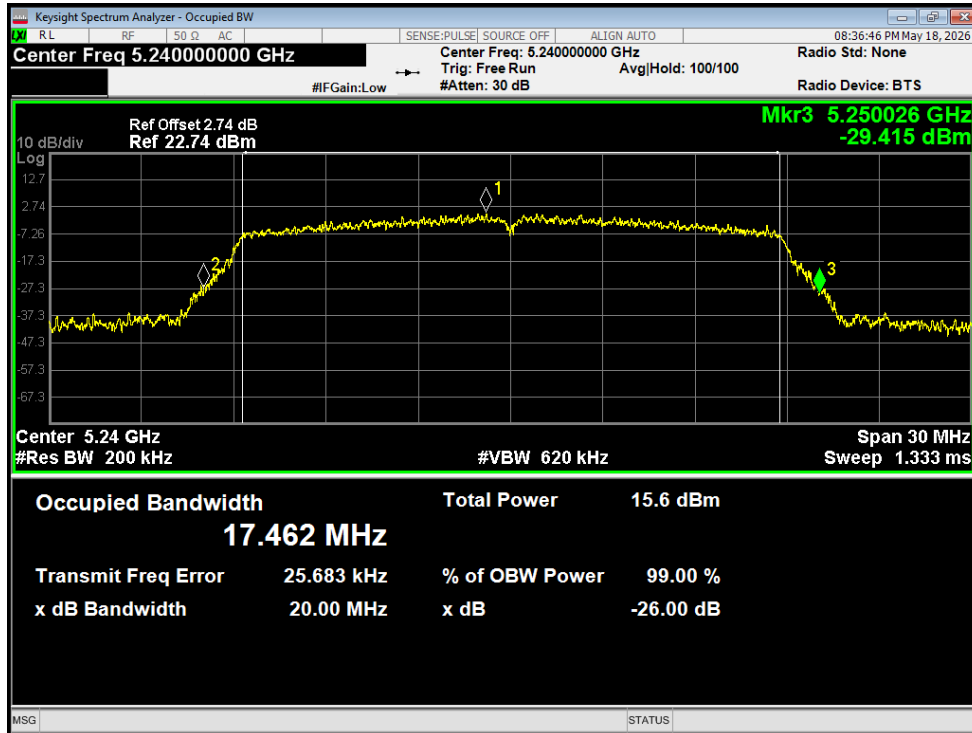
-26dB Bandwidth NVNT ac20 5180MHz Ant1



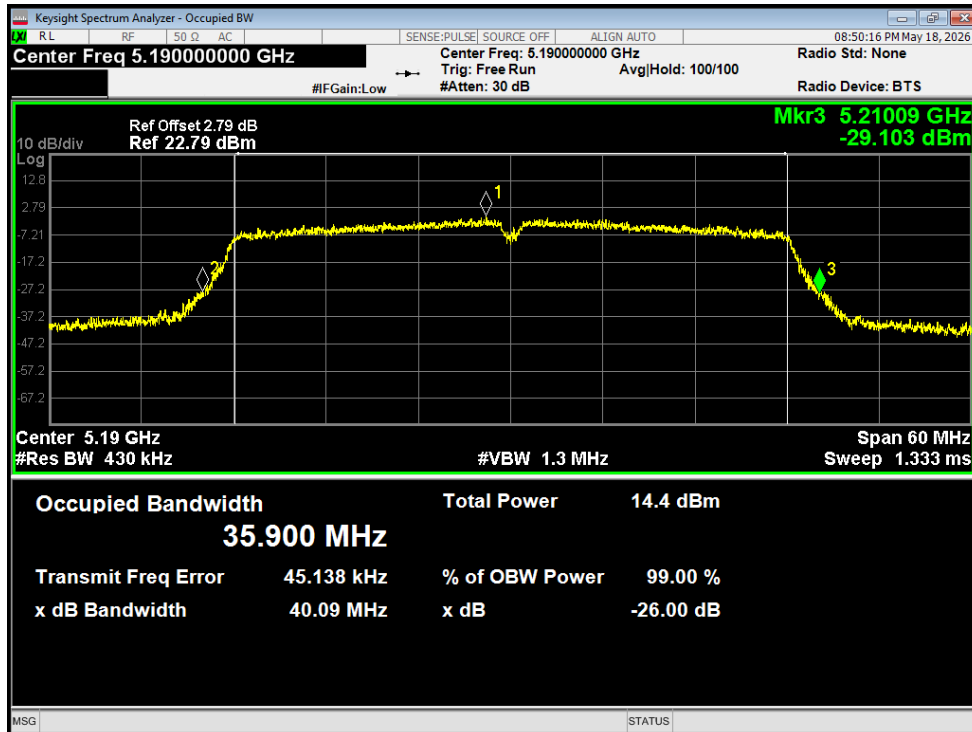
-26dB Bandwidth NVNT ac20 5200MHz Ant1



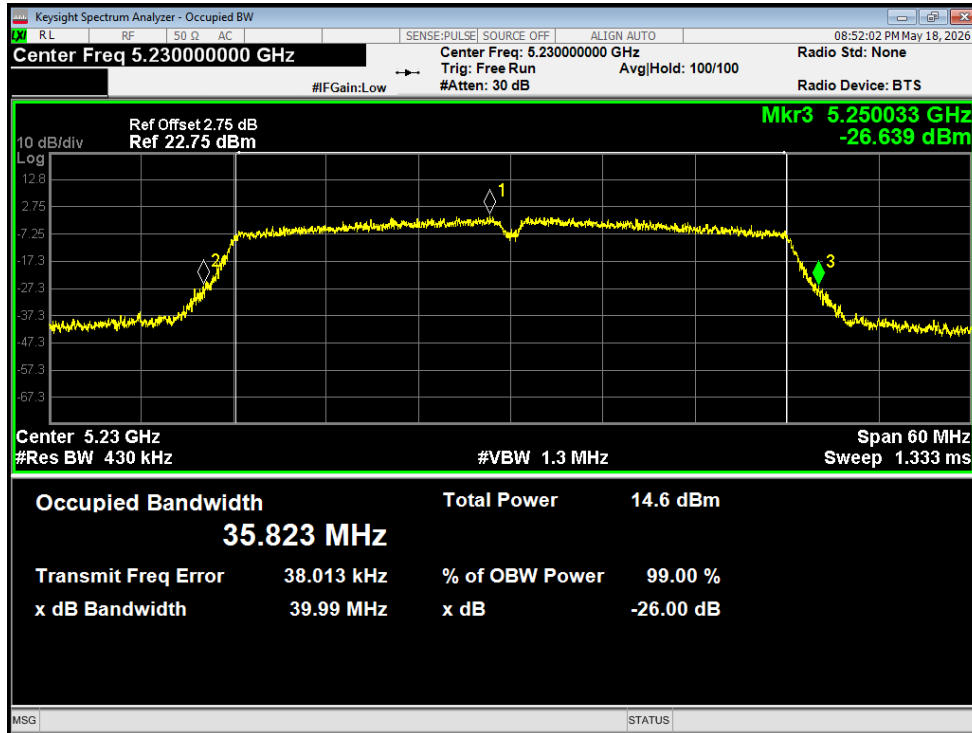
-26dB Bandwidth NVNT ac20 5240MHz Ant1



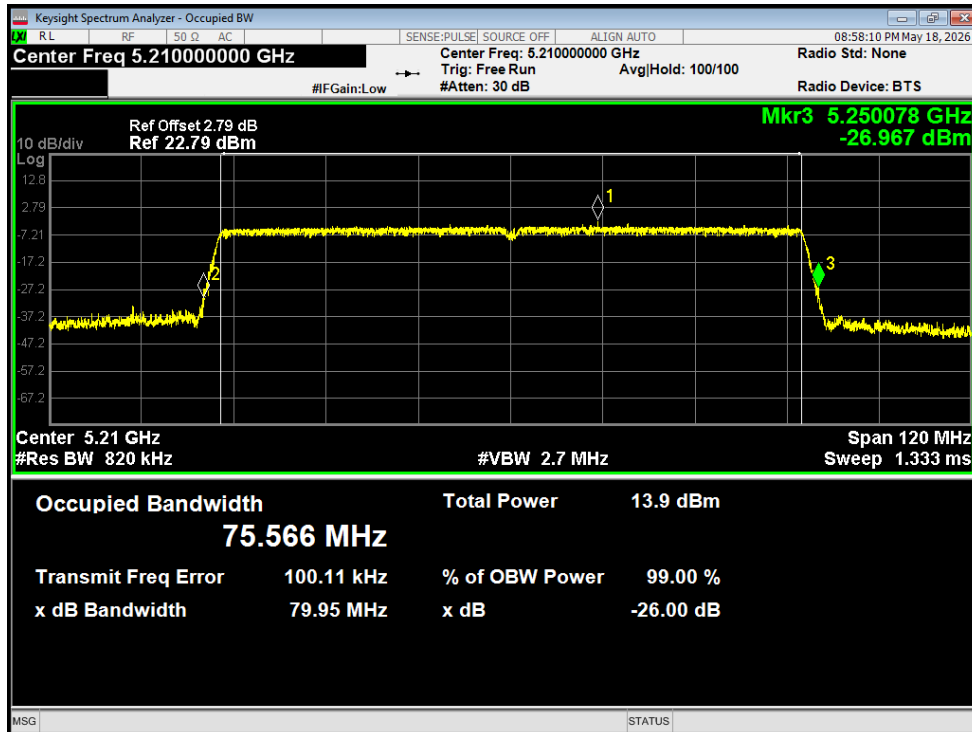
-26dB Bandwidth NVNT ac40 5190MHz Ant1



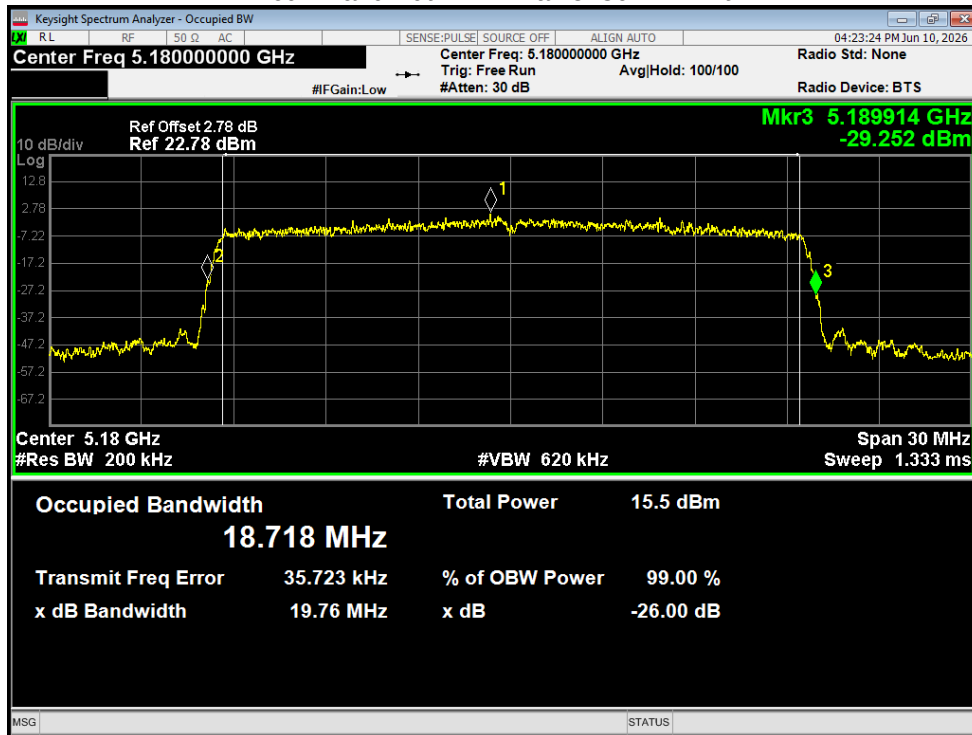
-26dB Bandwidth NVNT ac40 5230MHz Ant1



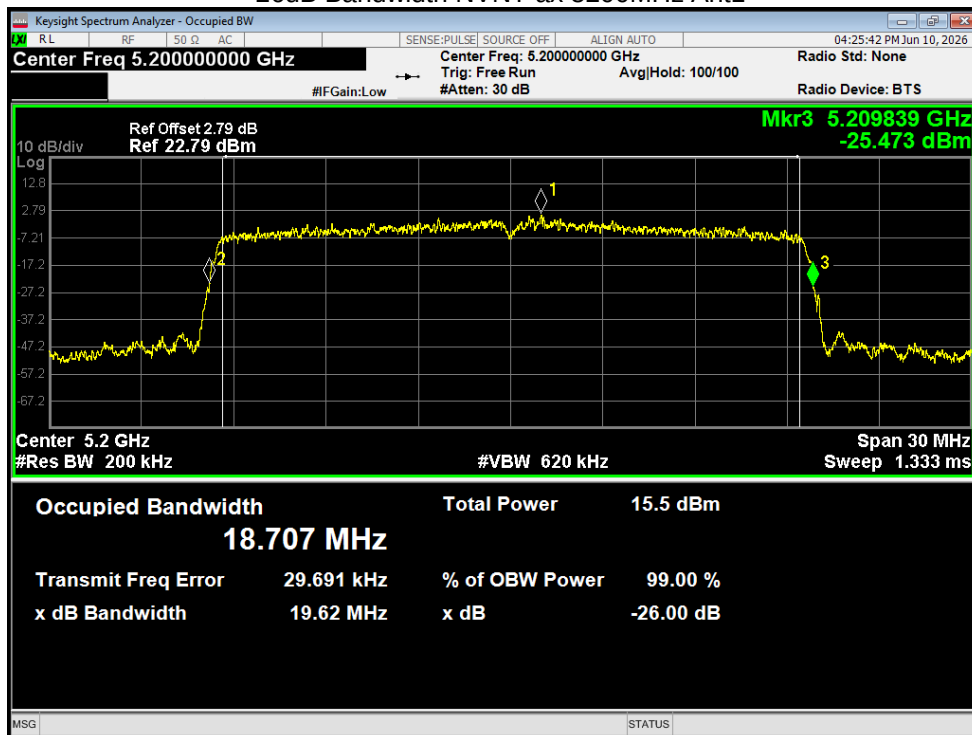
-26dB Bandwidth NVNT ac80 5210MHz Ant1



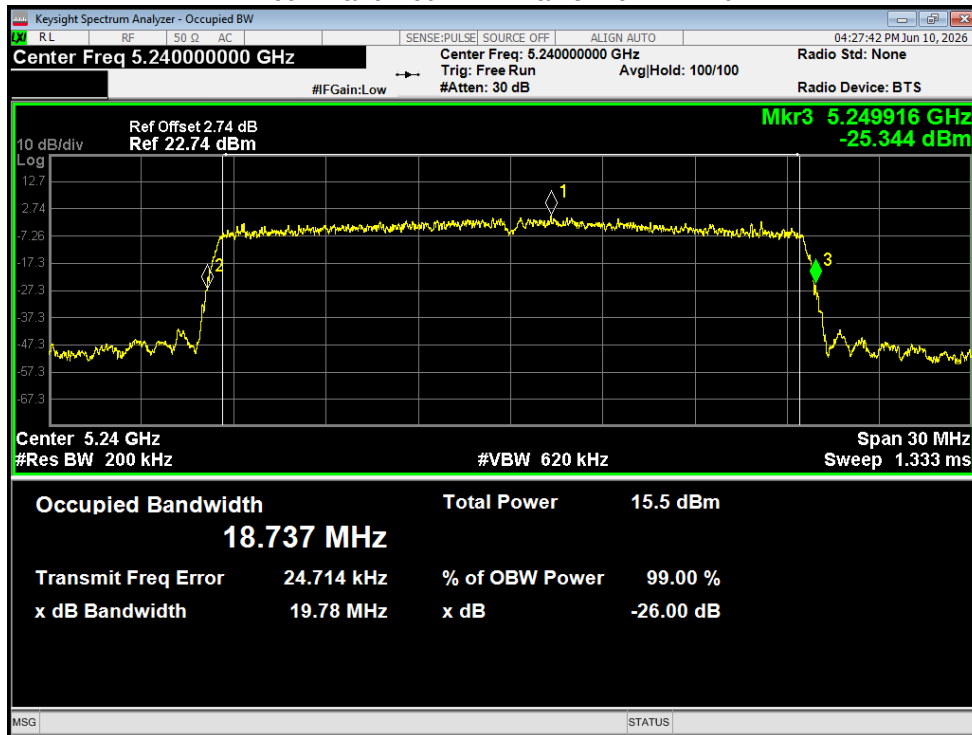
-26dB Bandwidth NVNT ax 5180MHz Ant1



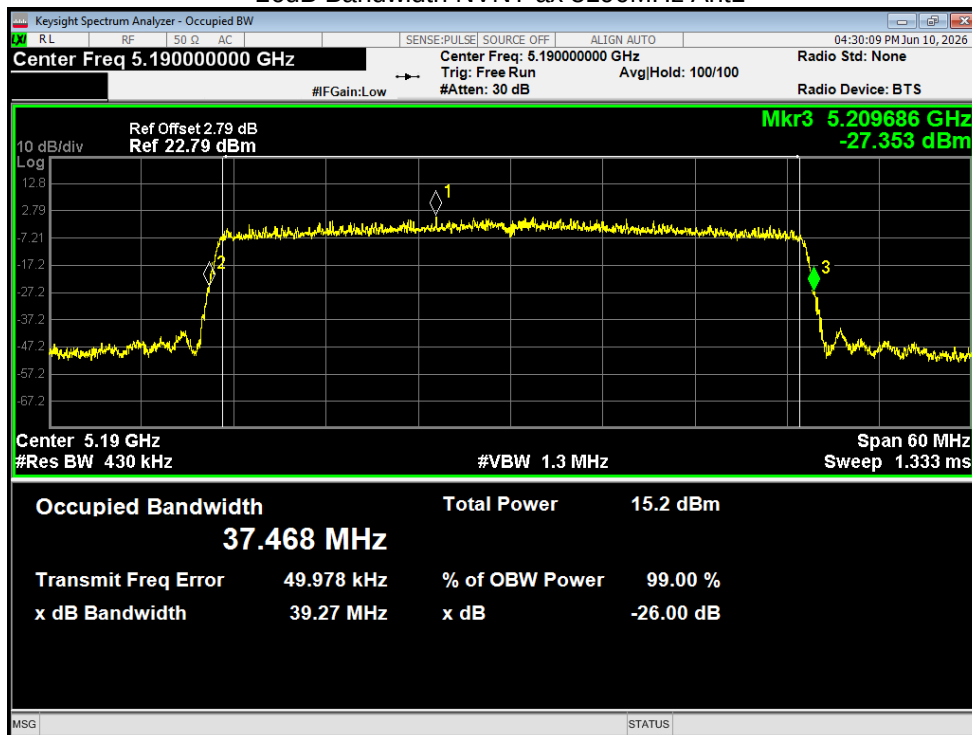
-26dB Bandwidth NVNT ax 5200MHz Ant1



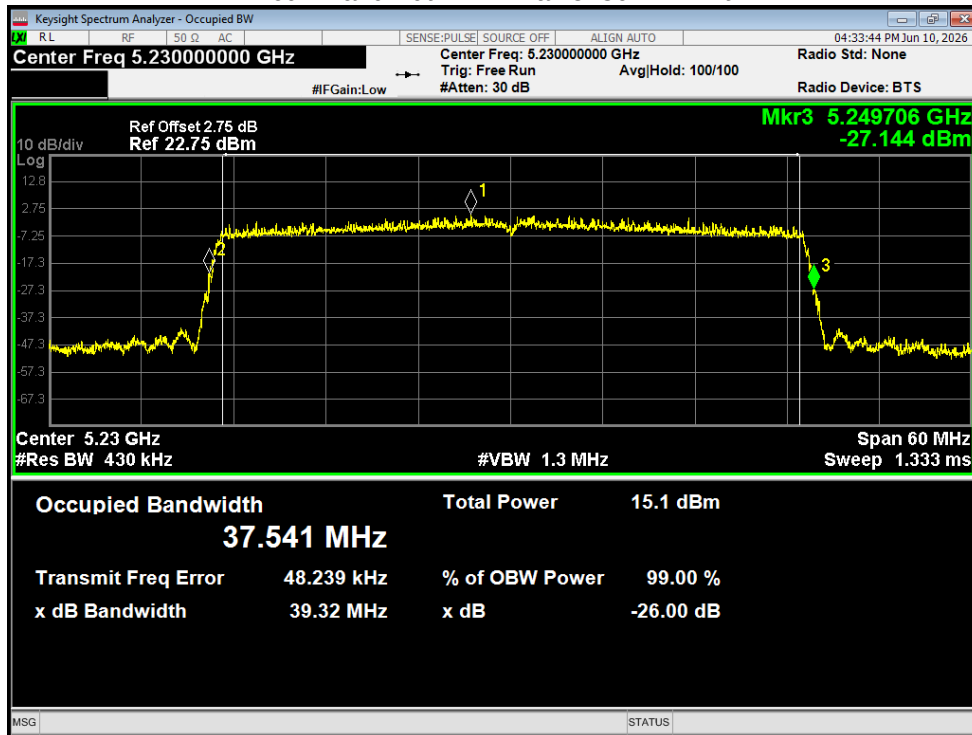
-26dB Bandwidth NVNT ax 5240MHz Ant1



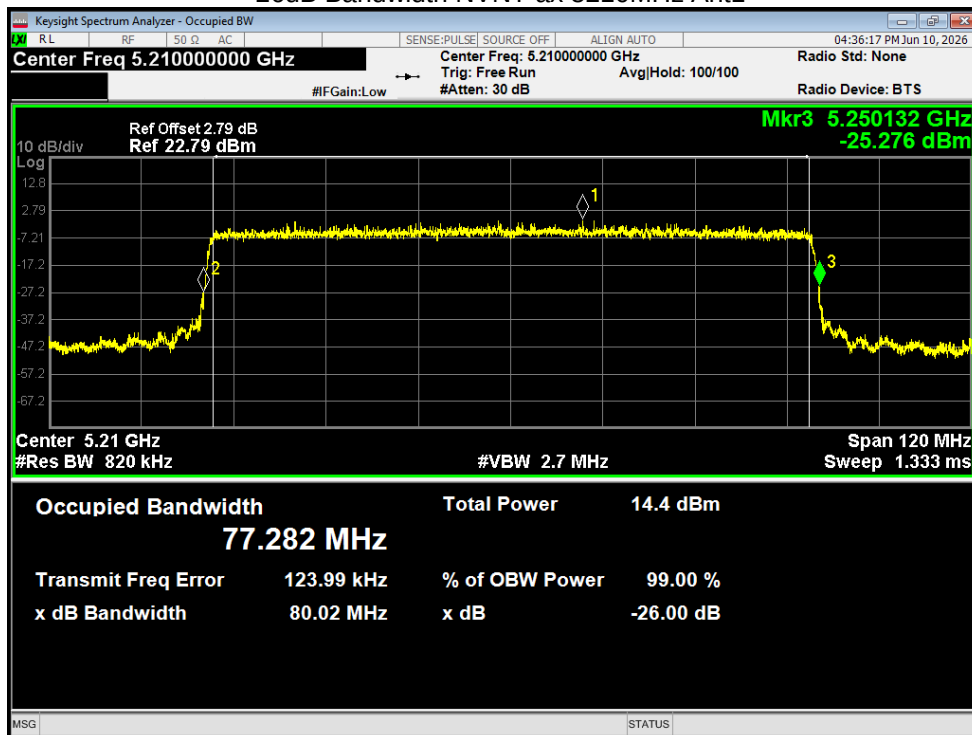
-26dB Bandwidth NVNT ax 5190MHz Ant1



-26dB Bandwidth NVNT ax 5230MHz Ant1



-26dB Bandwidth NVNT ax 5210MHz Ant1

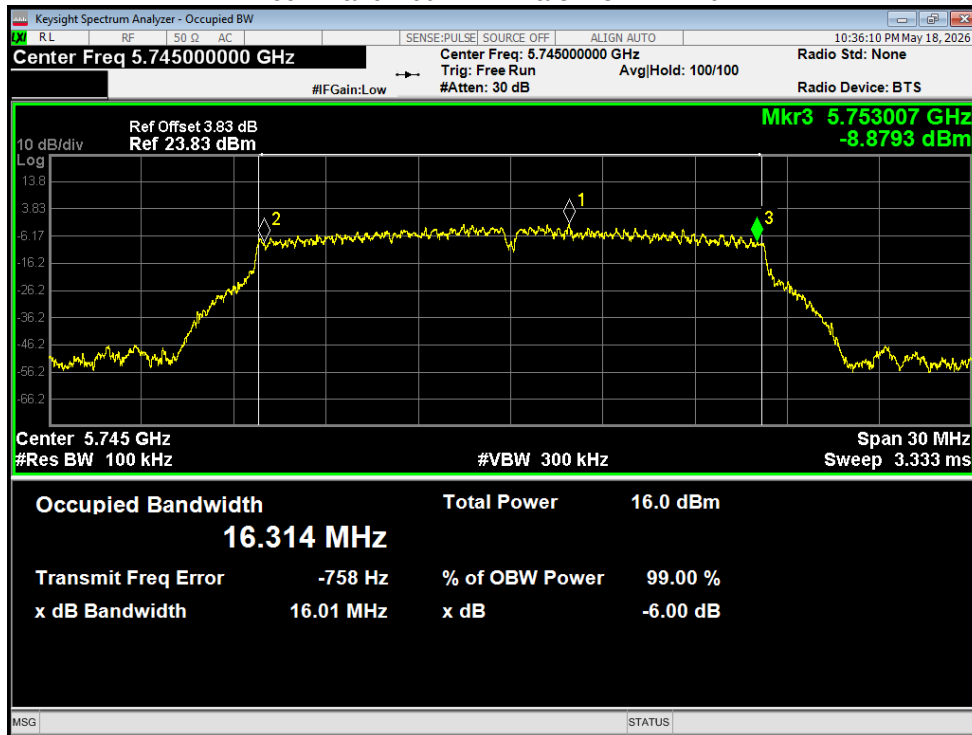




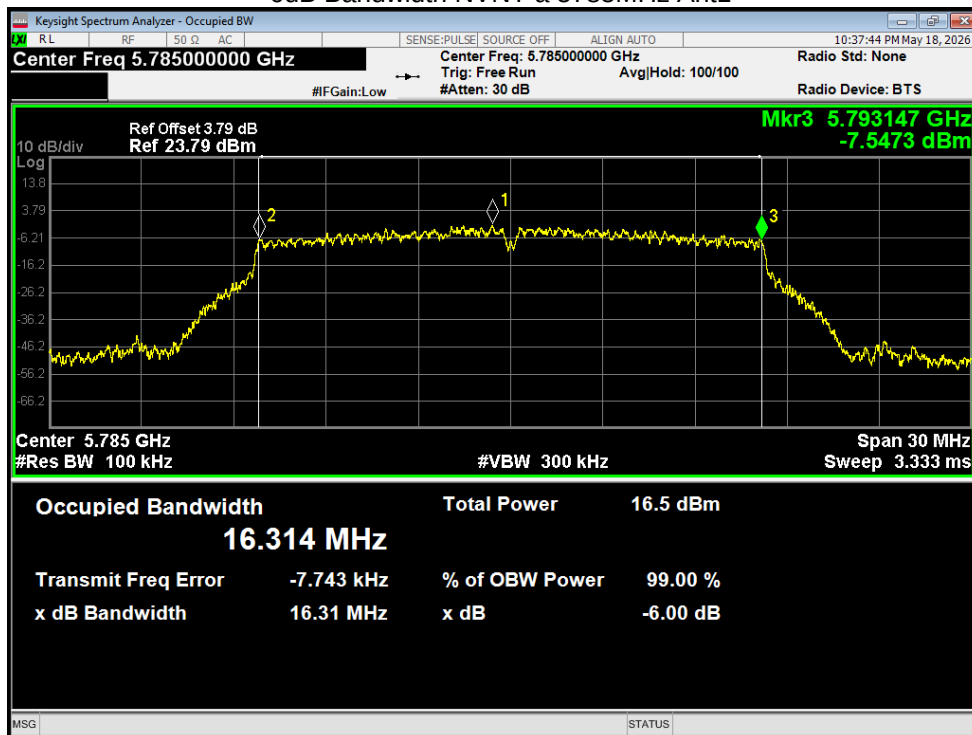
5745-5825MHz

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	16.01	0.5	Pass
NVNT	a	5785	16.31	0.5	Pass
NVNT	a	5825	16.28	0.5	Pass
NVNT	n20	5745	17.71	0.5	Pass
NVNT	n20	5785	17.13	0.5	Pass
NVNT	n20	5825	17.73	0.5	Pass
NVNT	n40	5755	36.47	0.5	Pass
NVNT	n40	5795	36.45	0.5	Pass
NVNT	ac20	5745	17.72	0.5	Pass
NVNT	ac20	5785	16.63	0.5	Pass
NVNT	ac20	5825	17.27	0.5	Pass
NVNT	ac40	5755	35.65	0.5	Pass
NVNT	ac40	5795	36.47	0.5	Pass
NVNT	ac80	5775	76.49	0.5	Pass
NVNT	ax20	5745	18.47	0.5	Pass
NVNT	ax20	5785	18.13	0.5	Pass
NVNT	ax20	5825	18.62	0.5	Pass
NVNT	ax40	5755	37.26	0.5	Pass
NVNT	ax40	5795	37.50	0.5	Pass
NVNT	ax80	5775	78.13	0.5	Pass

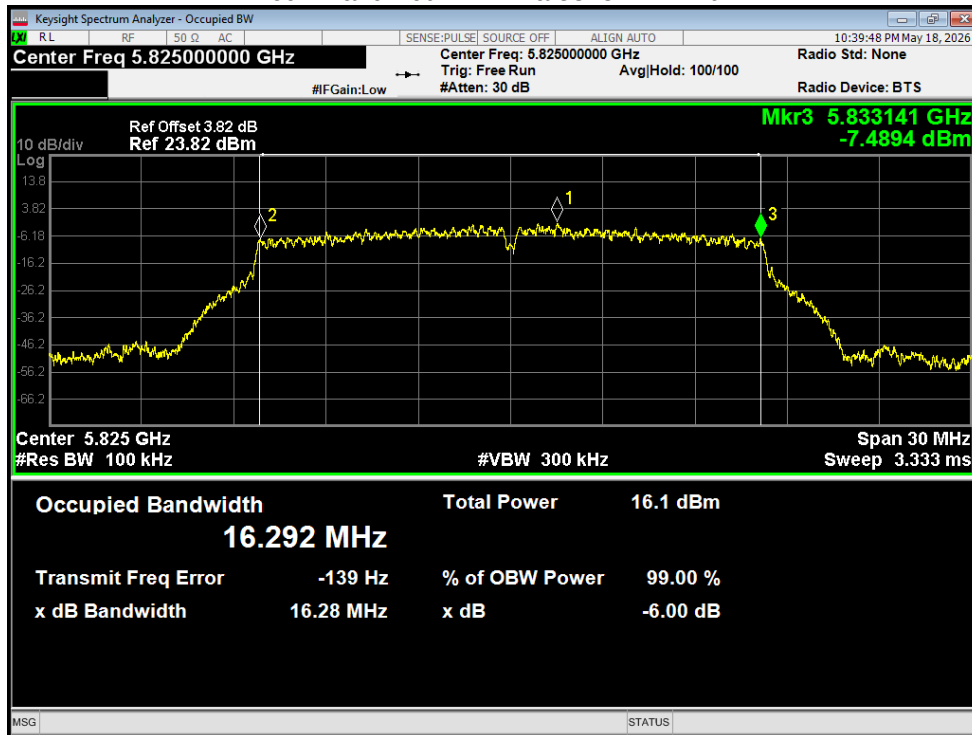
-6dB Bandwidth NVNT a 5745MHz Ant1



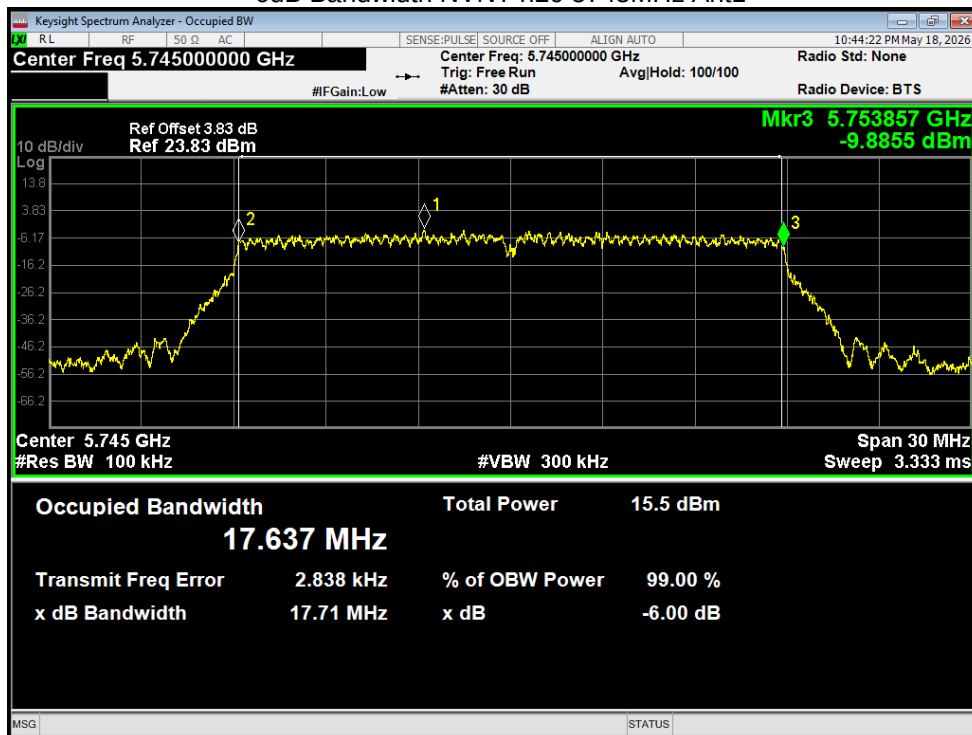
-6dB Bandwidth NVNT a 5785MHz Ant1



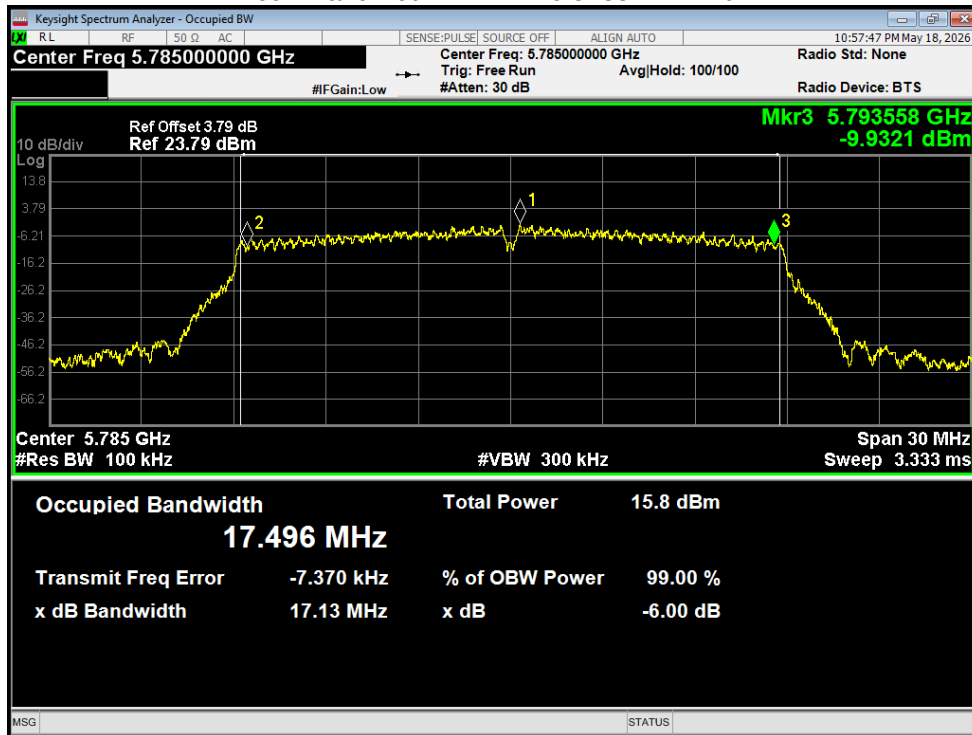
-6dB Bandwidth NVNT a 5825MHz Ant1



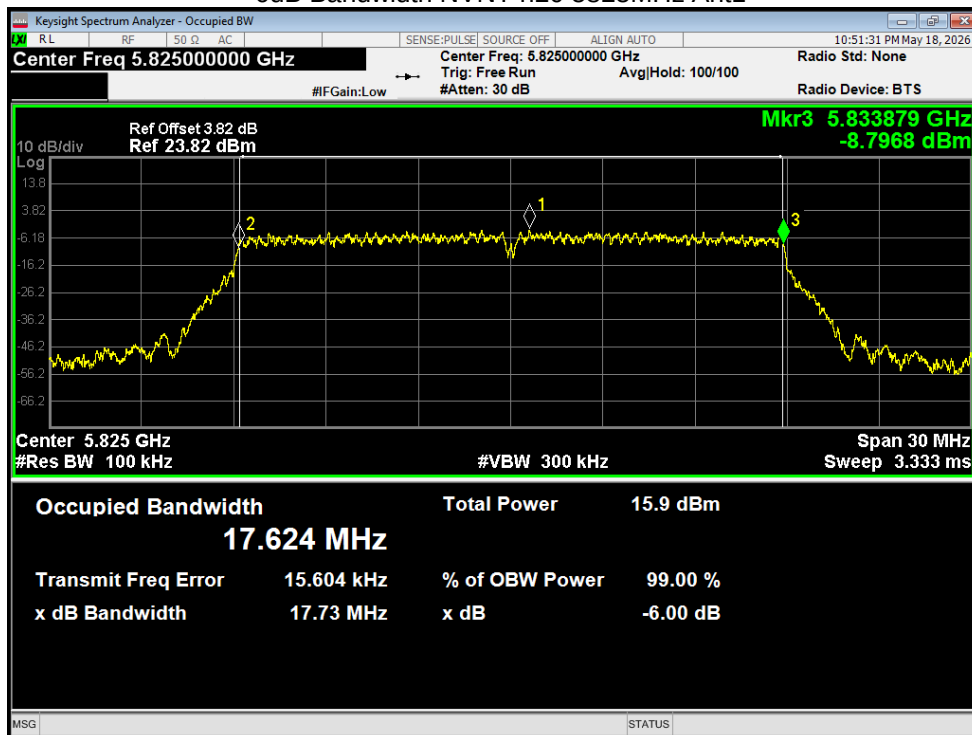
-6dB Bandwidth NVNT n20 5745MHz Ant1



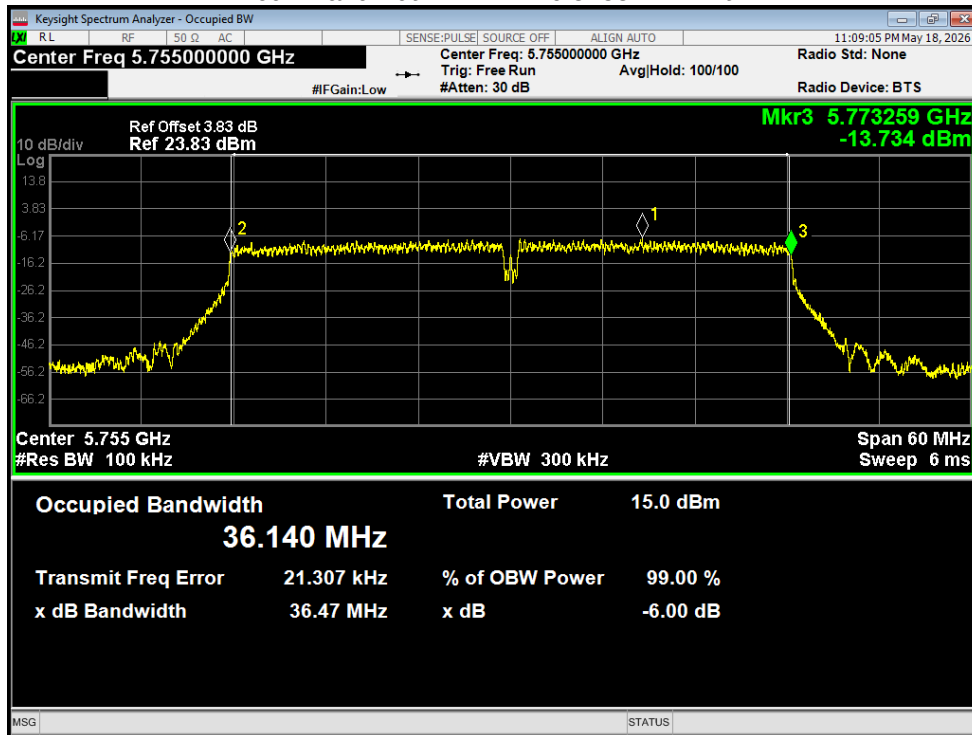
-6dB Bandwidth NVNT n20 5785MHz Ant1



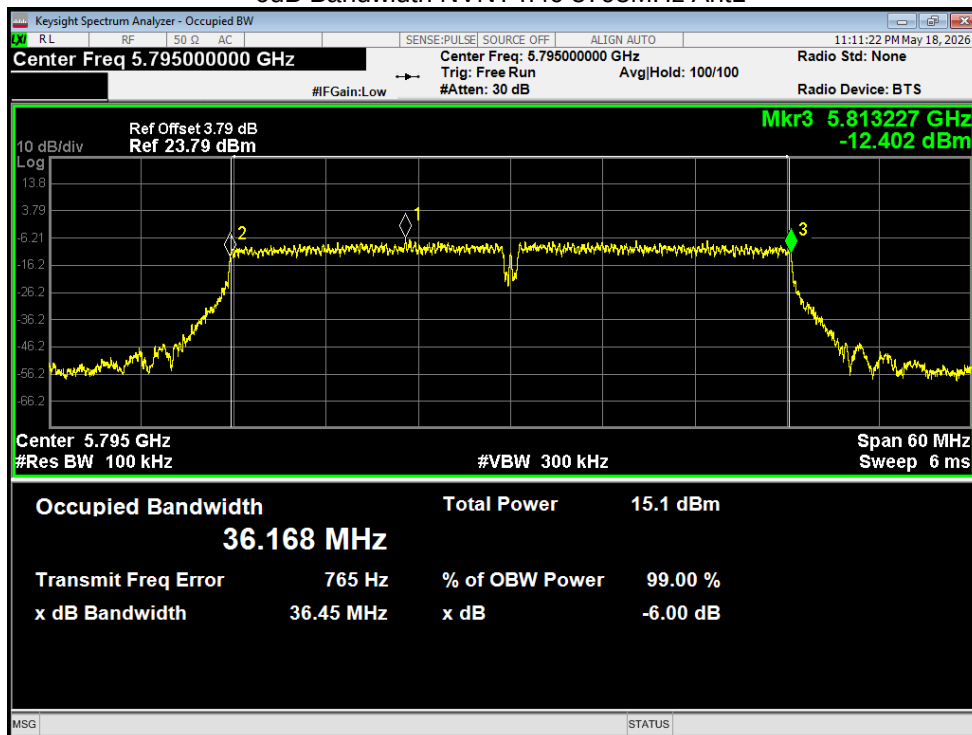
-6dB Bandwidth NVNT n20 5825MHz Ant1



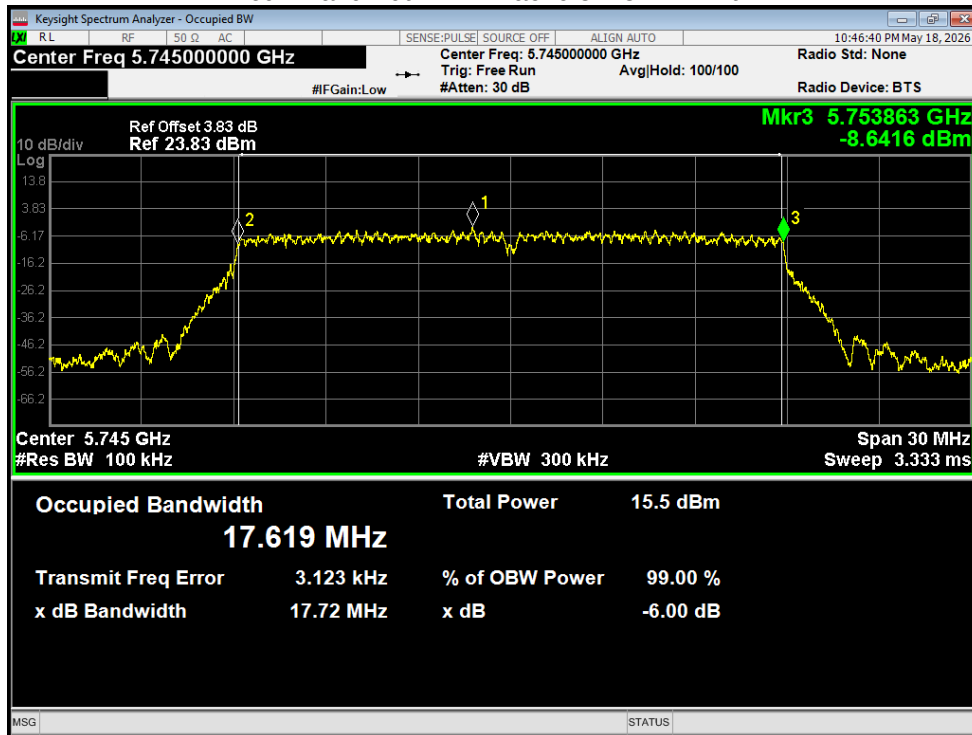
-6dB Bandwidth NVNT n40 5755MHz Ant1



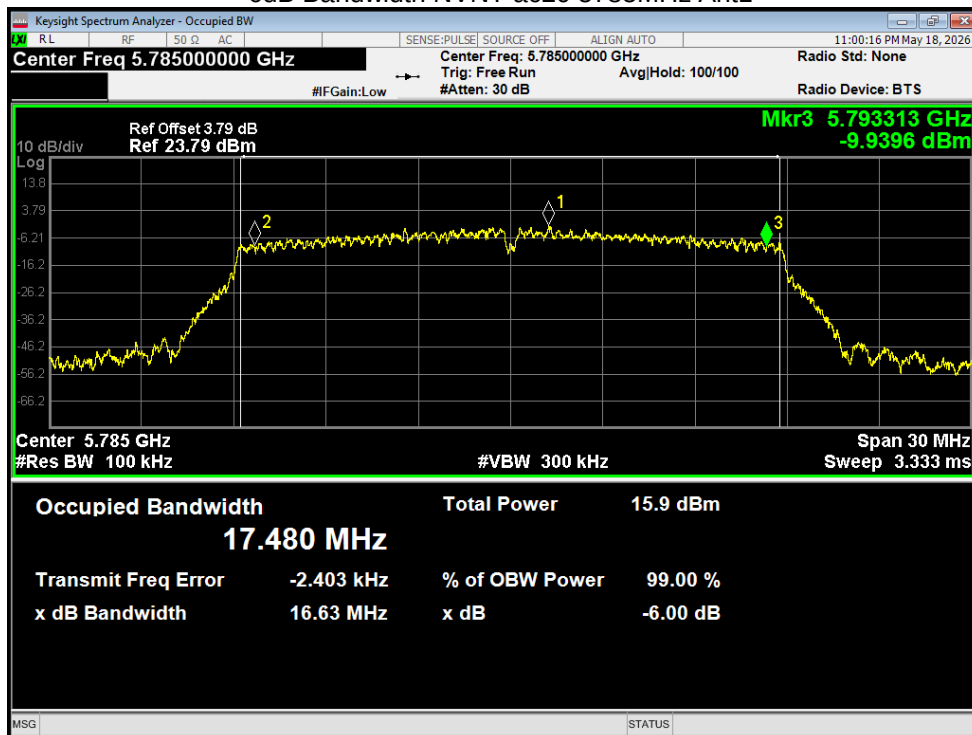
-6dB Bandwidth NVNT n40 5795MHz Ant1



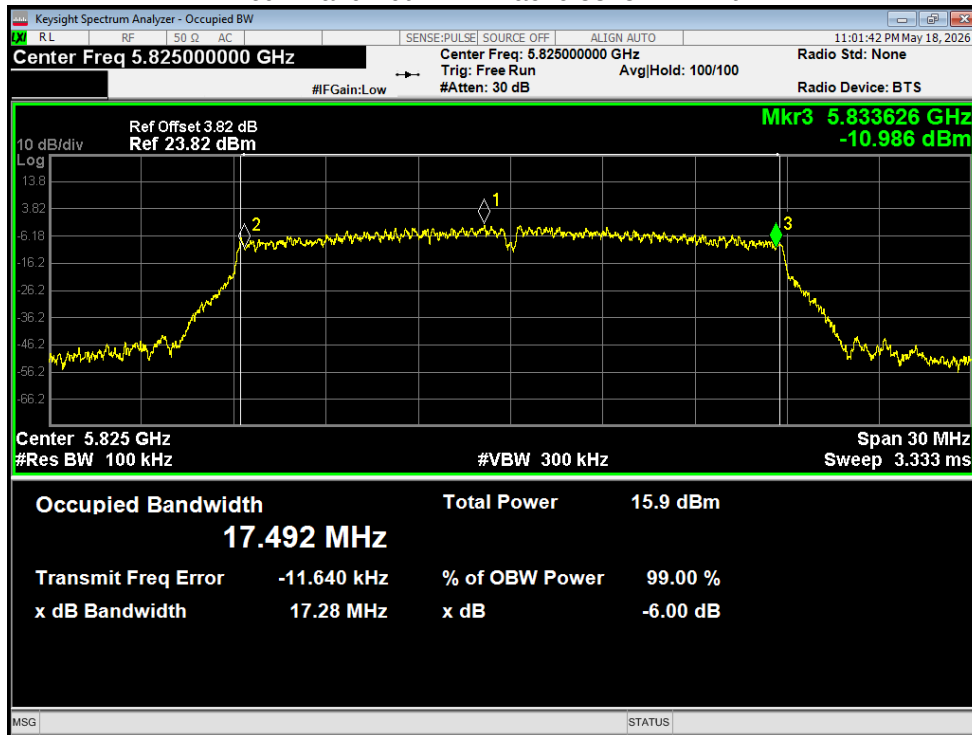
-6dB Bandwidth NVNT ac20 5745MHz Ant1



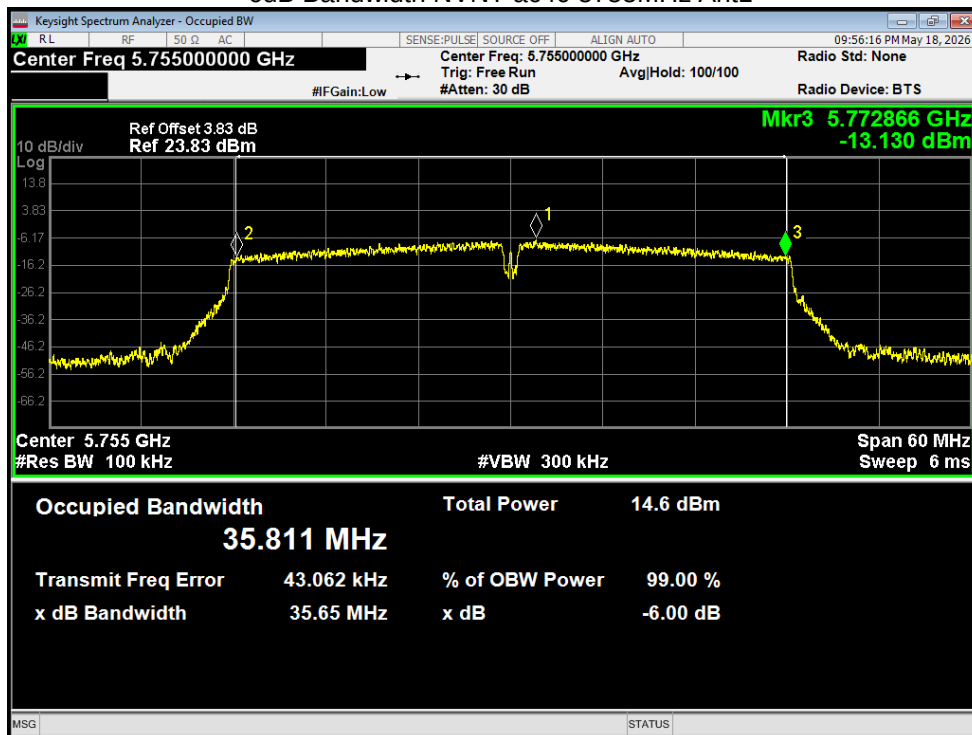
-6dB Bandwidth NVNT ac20 5785MHz Ant1



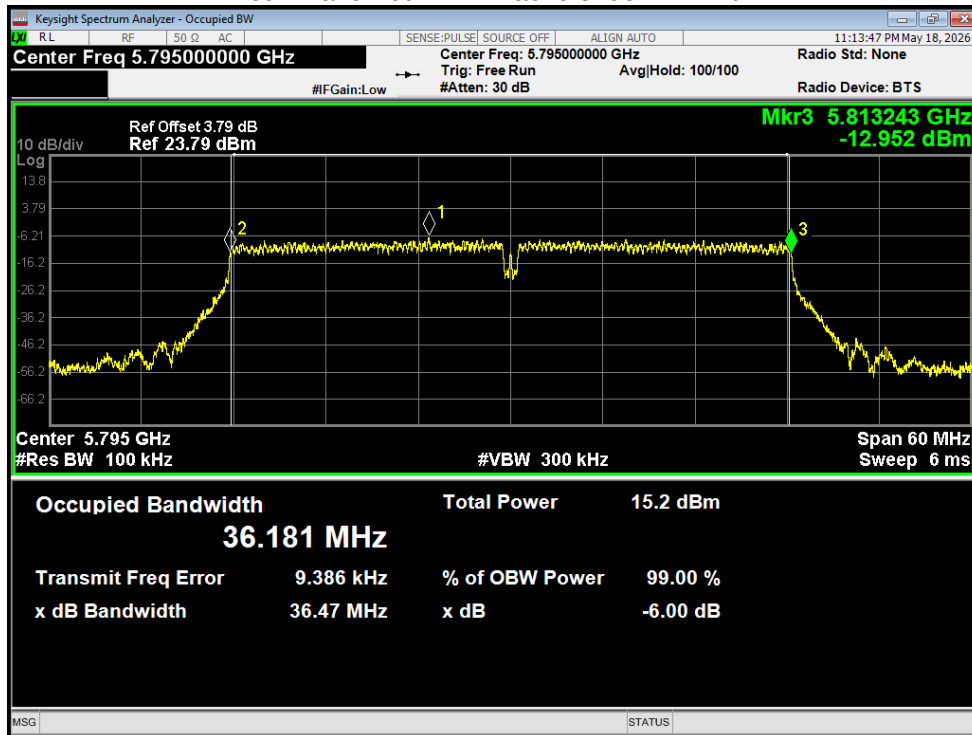
-6dB Bandwidth NVNT ac20 5825MHz Ant1



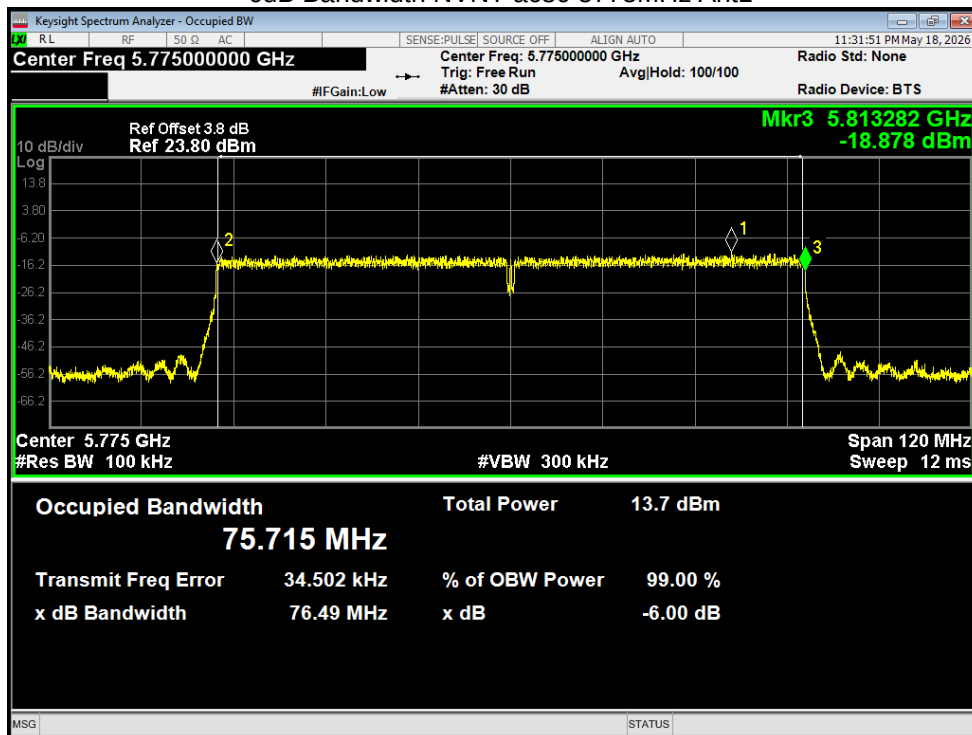
-6dB Bandwidth NVNT ac40 5755MHz Ant1



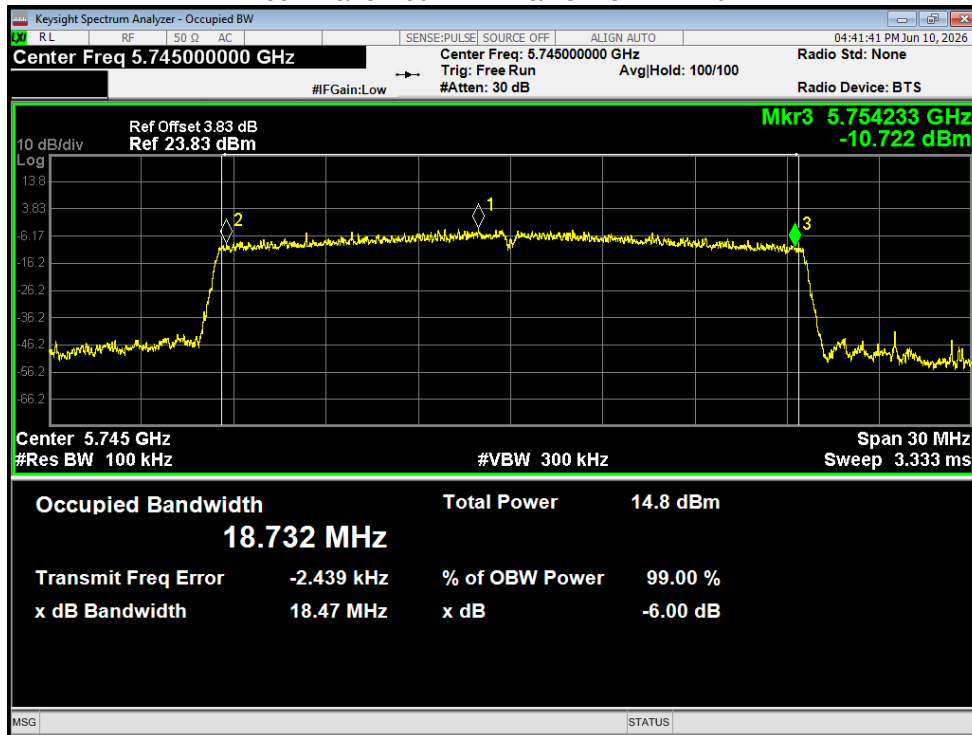
-6dB Bandwidth NVNT ac40 5795MHz Ant1



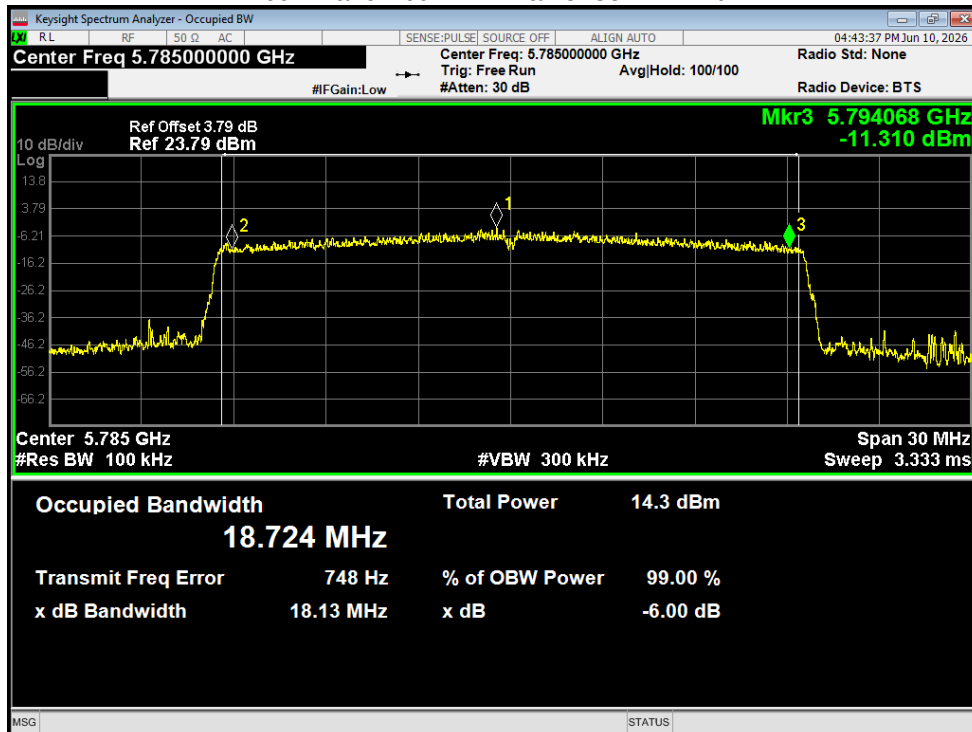
-6dB Bandwidth NVNT ac80 5775MHz Ant1



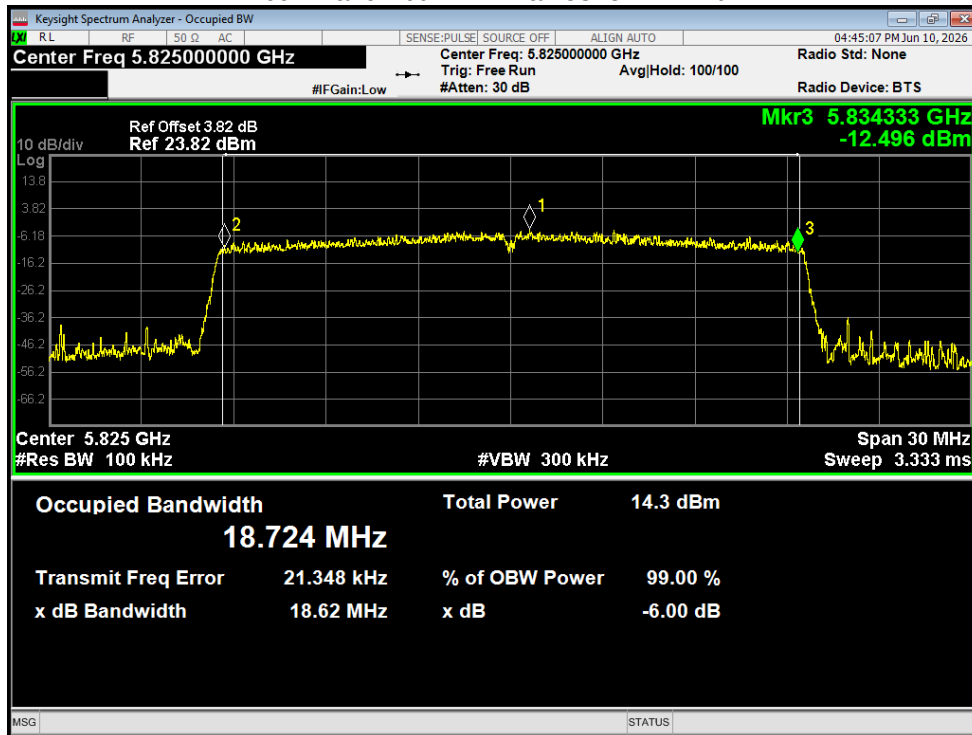
-6dB Bandwidth NVNT ax 5745MHz Ant1



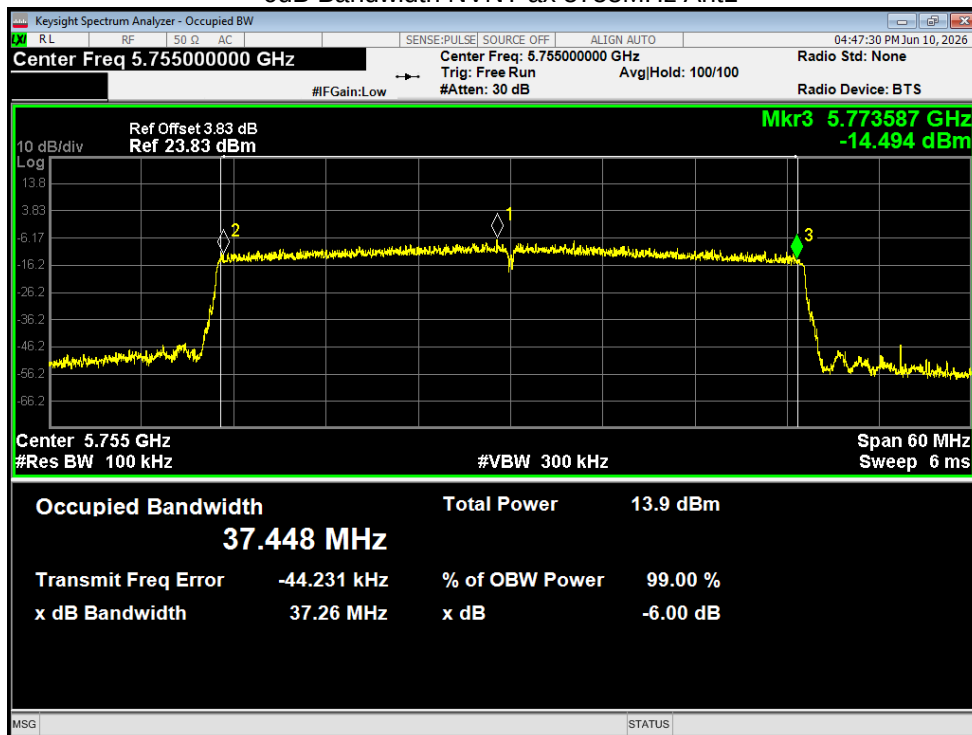
-6dB Bandwidth NVNT ax 5785MHz Ant1



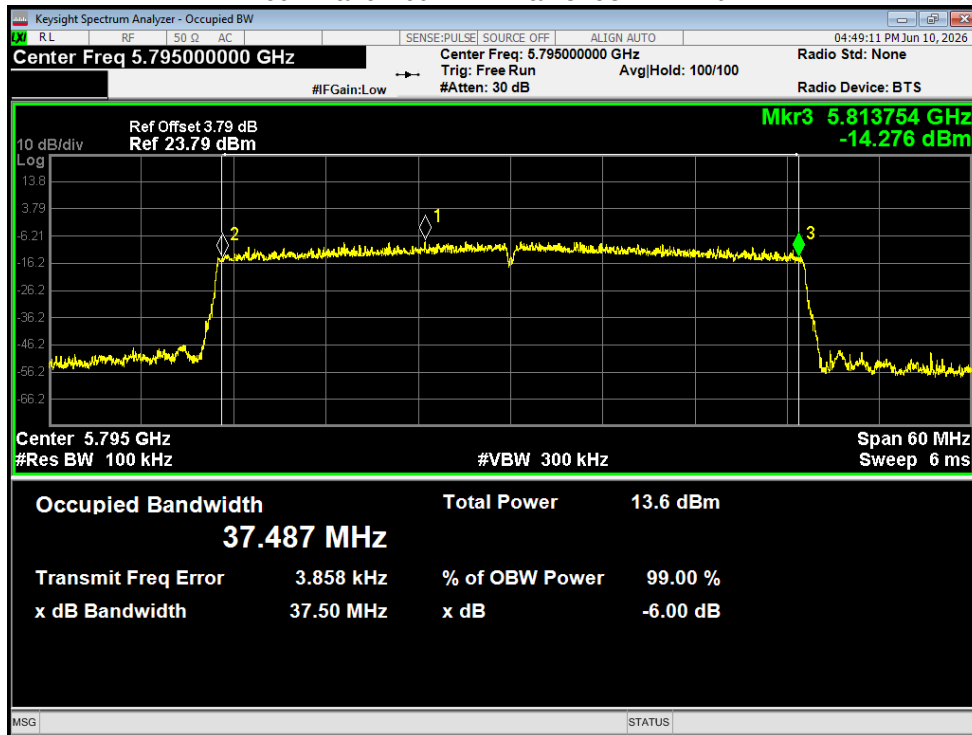
-6dB Bandwidth NVNT ax 5825MHz Ant1



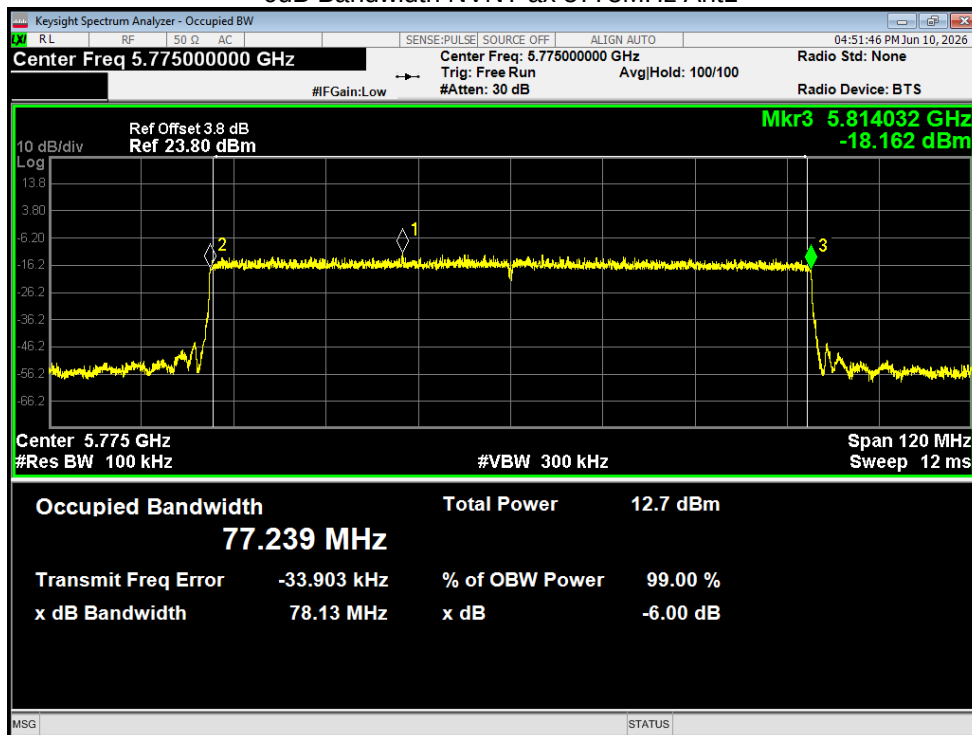
-6dB Bandwidth NVNT ax 5755MHz Ant1



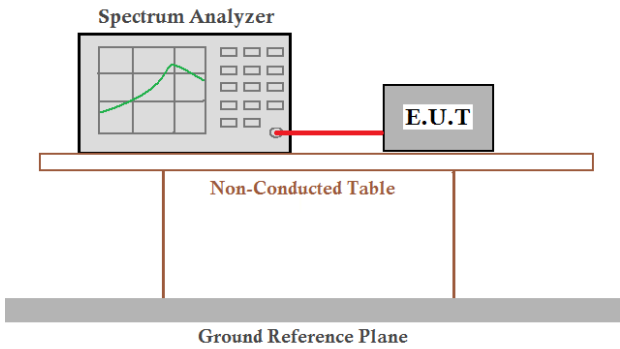
-6dB Bandwidth NVNT ax 5795MHz Ant1



-6dB Bandwidth NVNT ax 5775MHz Ant1



4.6 Power Spectral Density

Test Requirement:	47CFR Part 15.407(a)(1)/ (a)(3)	
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01, ANSI C63.10-2020+Cor.1-2023§12.6	
Limit:	Frequency band (MHz)	Limit
	5150-5250	≤17dBm/1MHz for master device
		≤11dBm/1MHz for client device
	5250-5350	≤11dBm/1MHz for client device
	5470-5725	≤11dBm/1MHz for client device
	5725-5850	≤30dBm/500kHz
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 23.5°C	Humid.: 45%RH
Test voltage:	DC14.8V from Battery	
Test results:	Pass	

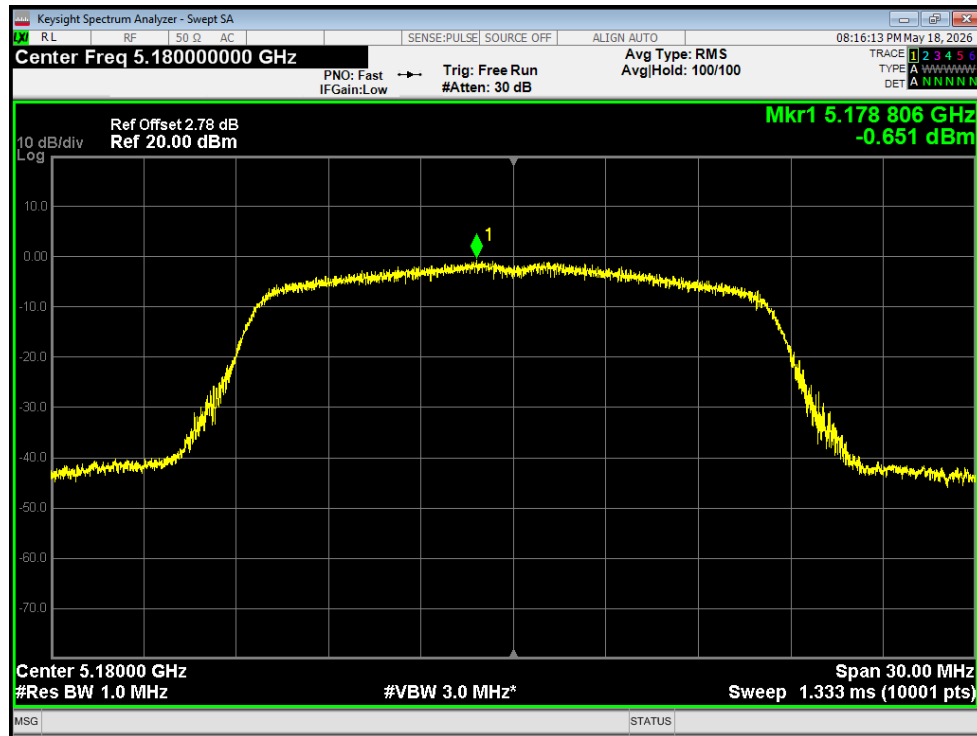


Measurement Result

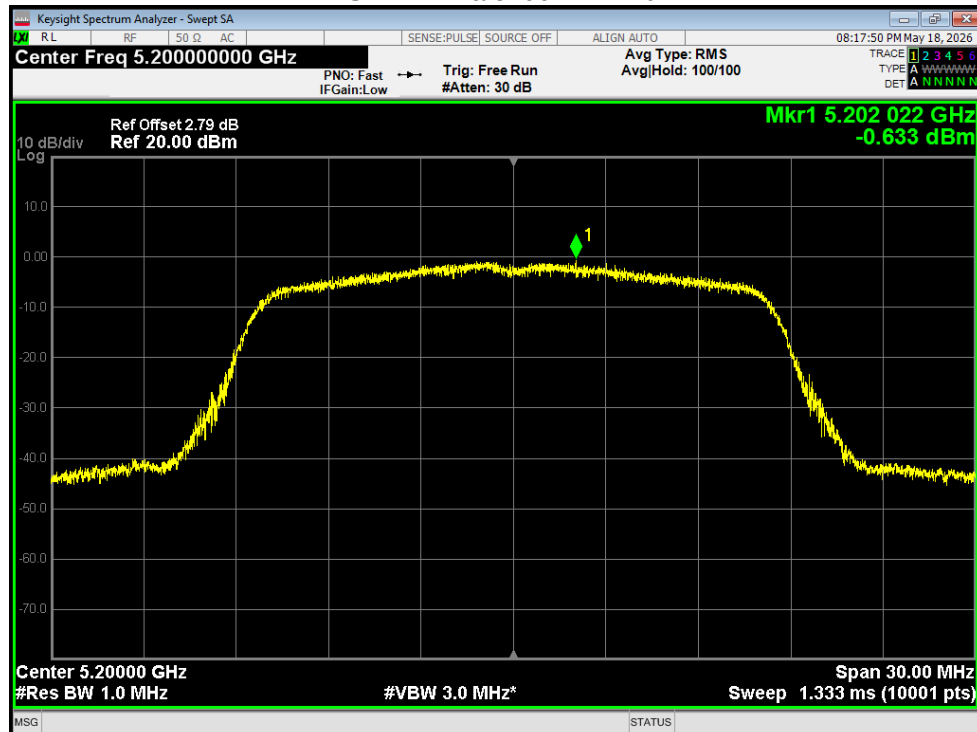
5180-5240MHz

Mode	Frequency	Measured Power Density (dBm/MHz)	Correction Factor (dB)	Total Measured Power Density (dBm/MHz)	Limit (dBm/MHz)
802.11 a	5180 MHz	-0.651	0	-0.651	11
	5200 MHz	-0.633	0	-0.633	11
	5240 MHz	-1.175	0	-1.175	11
802.11 n20	5180 MHz	0.624	0	0.624	11
	5200 MHz	0.848	0	0.848	11
	5240 MHz	0.99	0	0.99	11
802.11 n40	5190 MHz	-3.765	0	-3.765	11
	5230 MHz	-3.442	0	-3.442	11
802.11 ac20	5180 MHz	0.907	0	0.907	11
	5200 MHz	0.771	0	0.771	11
	5240 MHz	0.889	0	0.889	11
802.11 ac40	5190 MHz	-3.571	0	-3.571	11
	5230 MHz	-3.415	0	-3.415	11
802.11 ac80	5210 MHz	-9.54	0	-9.54	11
802.11 ax20	5180 MHz	-0.419	0	-0.419	11
	5200 MHz	-0.561	0	-0.561	11
	5240 MHz	-0.589	0	-0.589	11
802.11 ax40	5190 MHz	-4.269	0	-4.269	11
	5230 MHz	-4.361	0	-4.361	11
802.11 ax80	5210 MHz	-9.654	0	-9.654	11

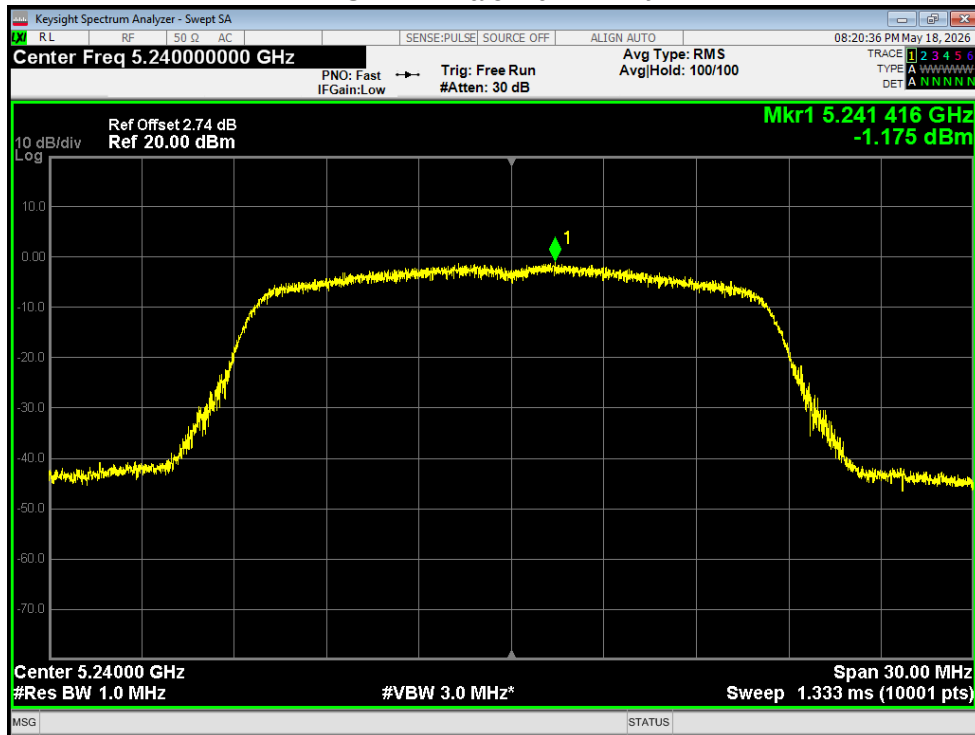
PSD NVNT a 5180MHz Ant1



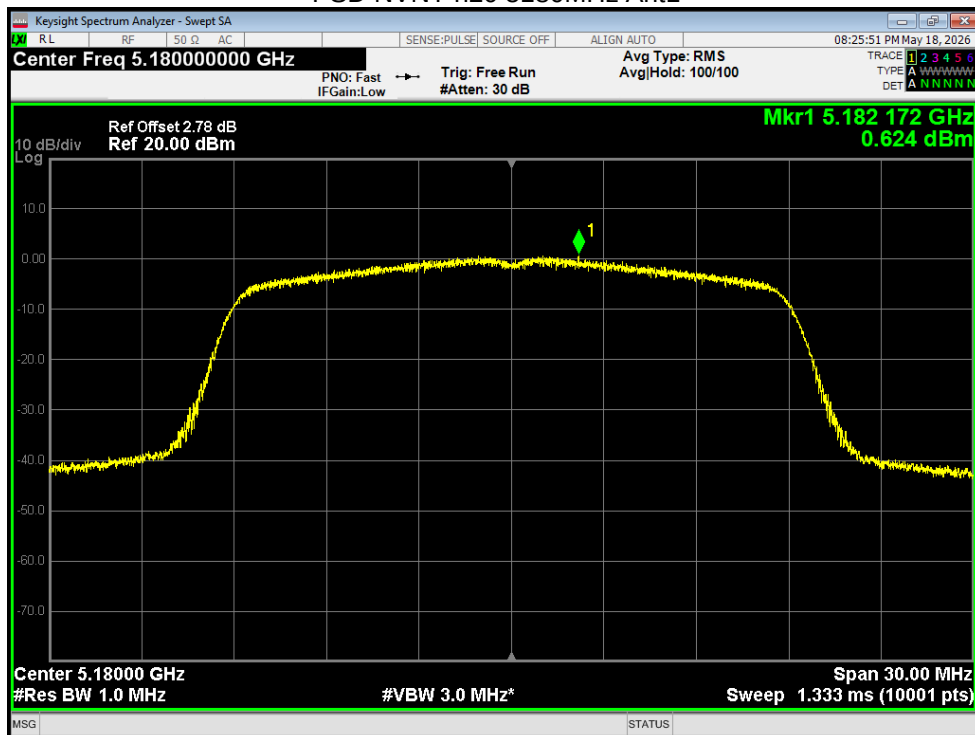
PSD NVNT a 5200MHz Ant1



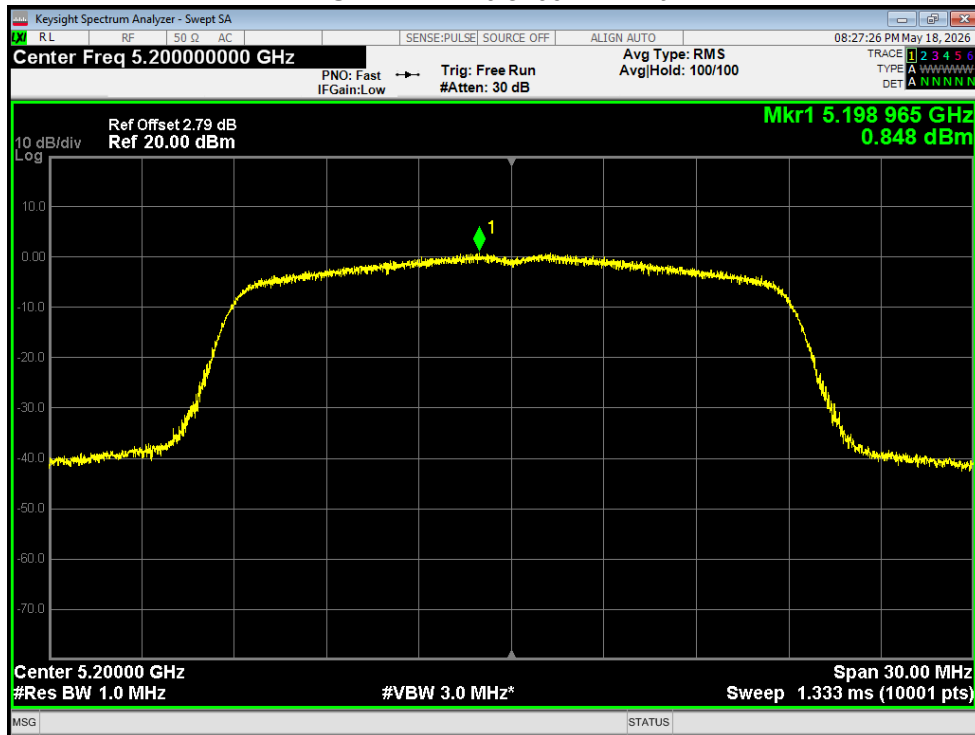
PSD NVNT a 5240MHz Ant1



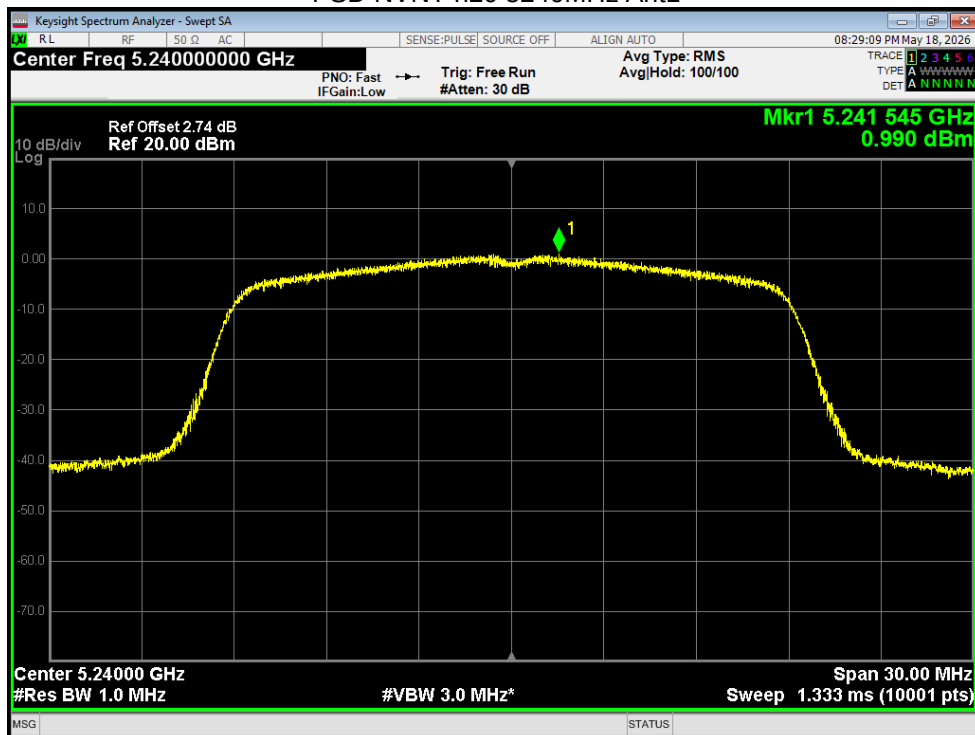
PSD NVNT n20 5180MHz Ant1



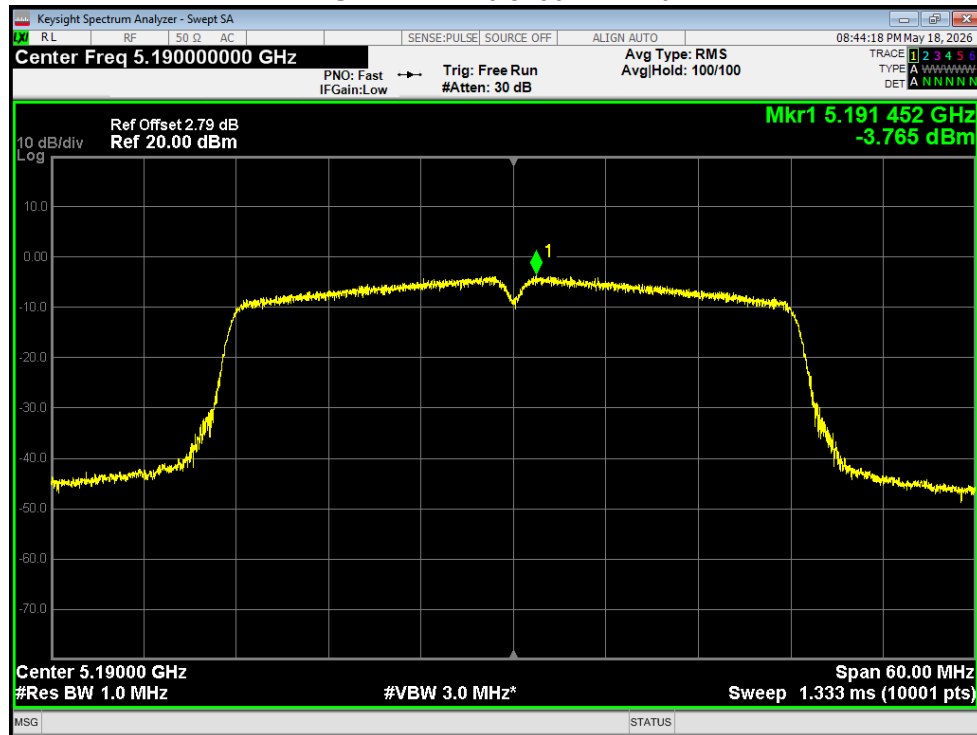
PSD NVNT n20 5200MHz Ant1



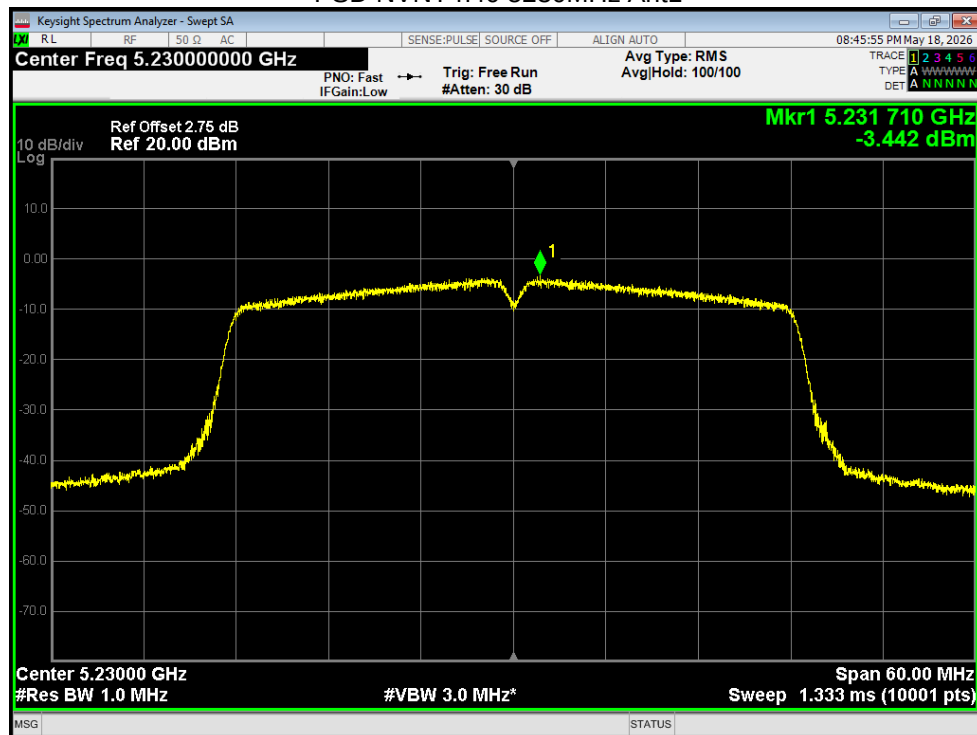
PSD NVNT n20 5240MHz Ant1



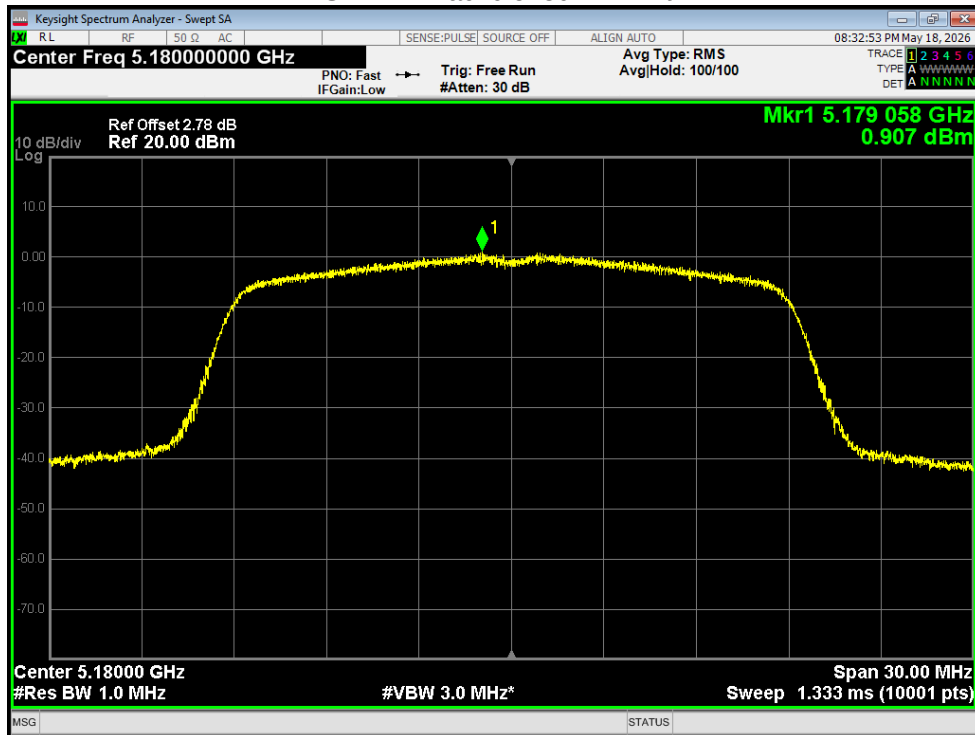
PSD NVNT n40 5190MHz Ant1



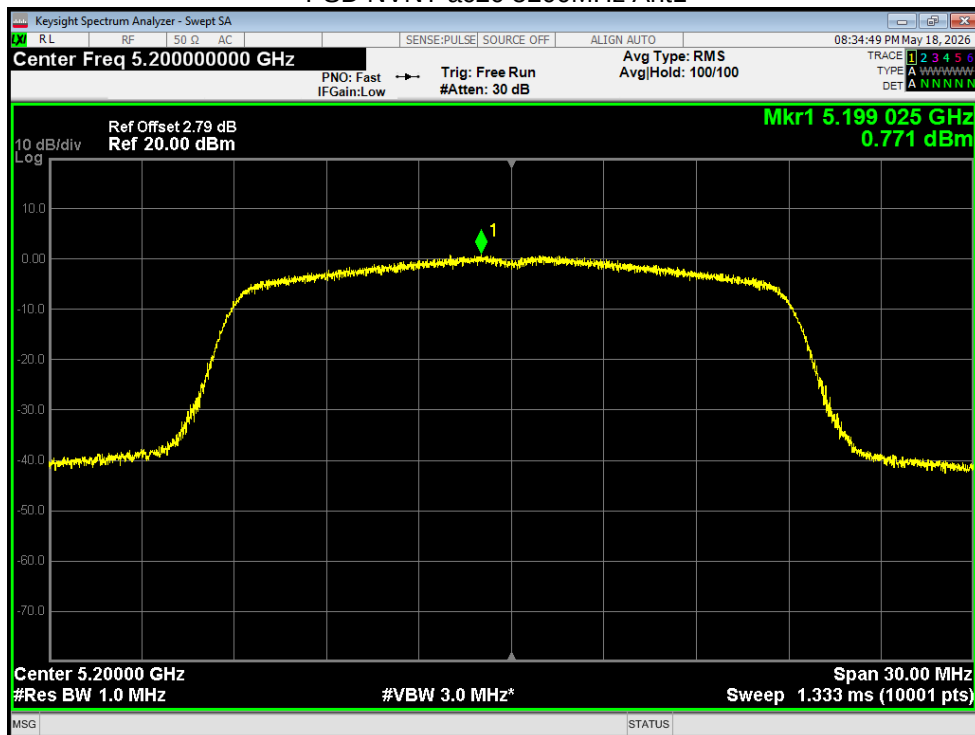
PSD NVNT n40 5230MHz Ant1



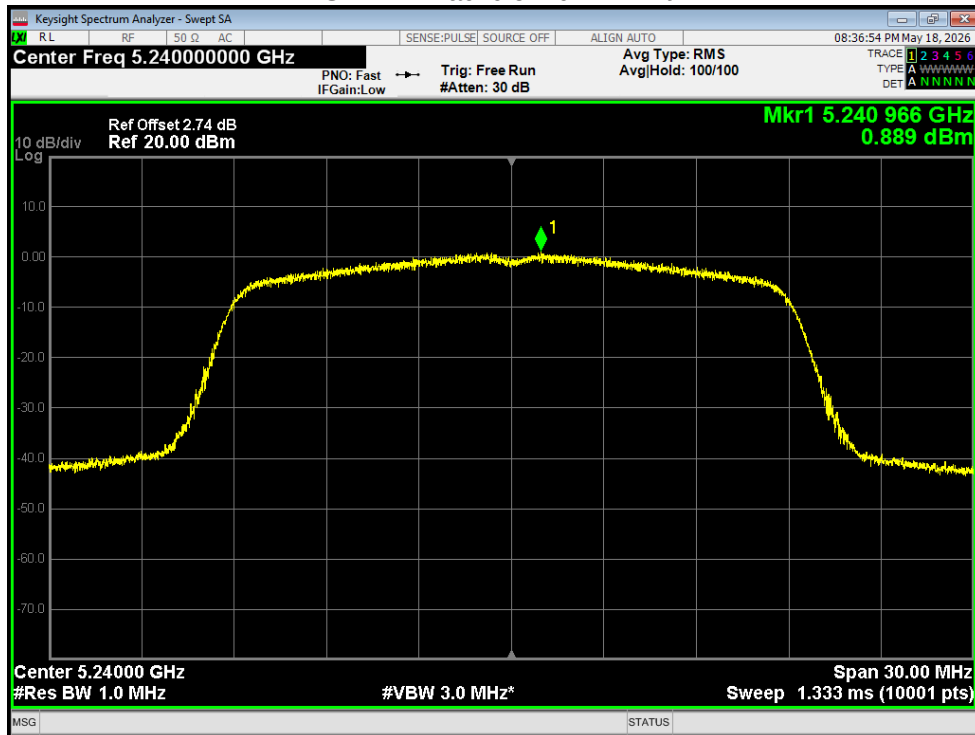
PSD NVNT ac20 5180MHz Ant1



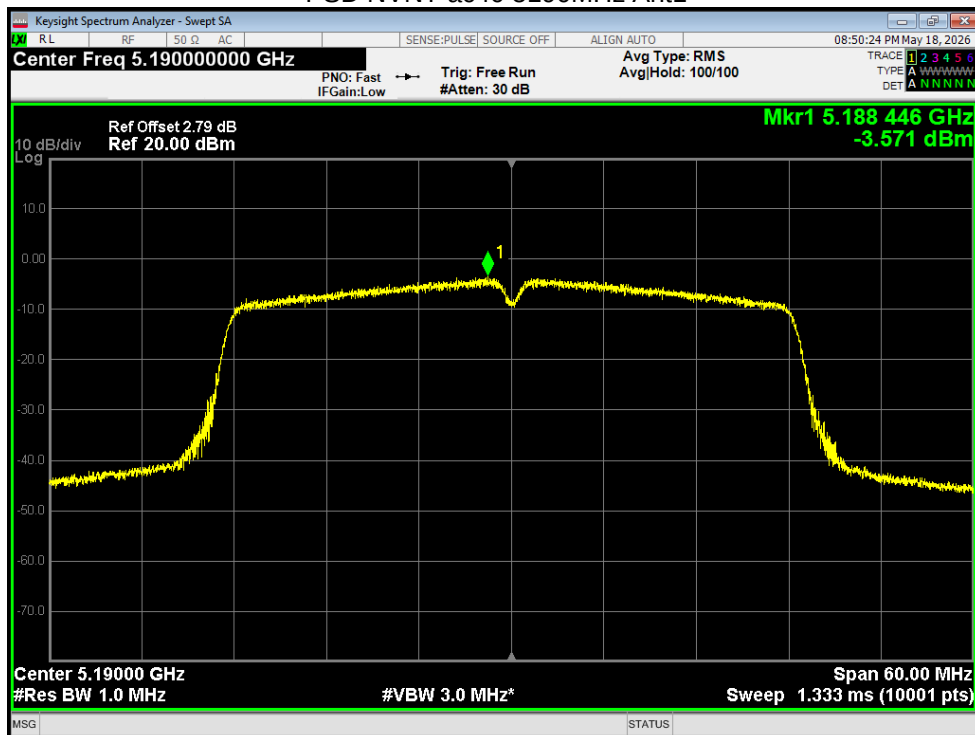
PSD NVNT ac20 5200MHz Ant1



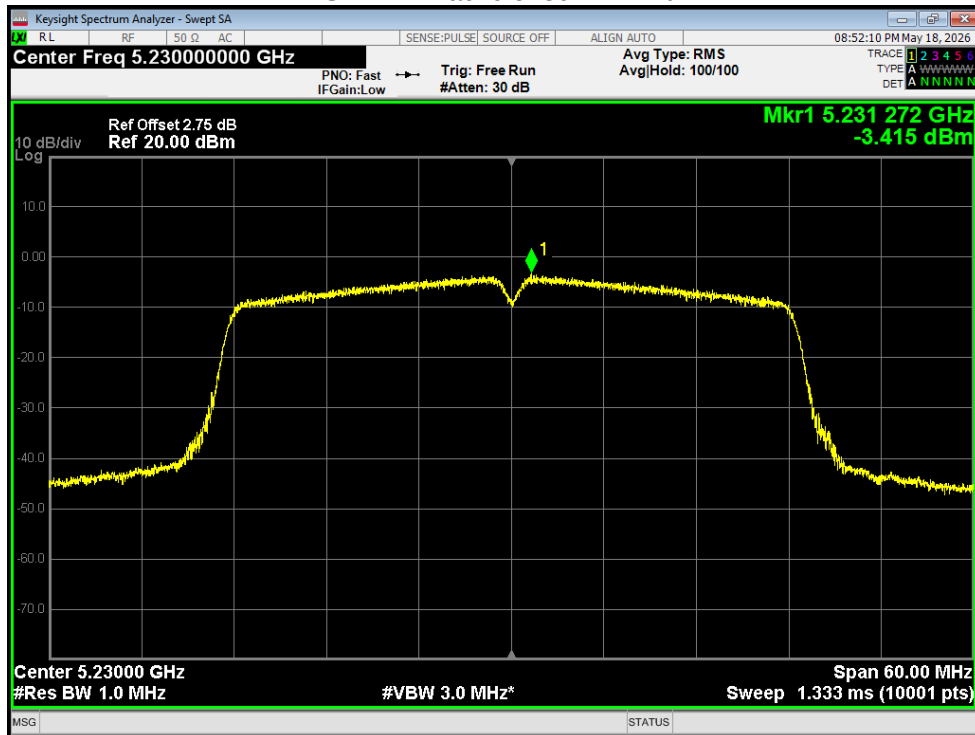
PSD NVNT ac20 5240MHz Ant1



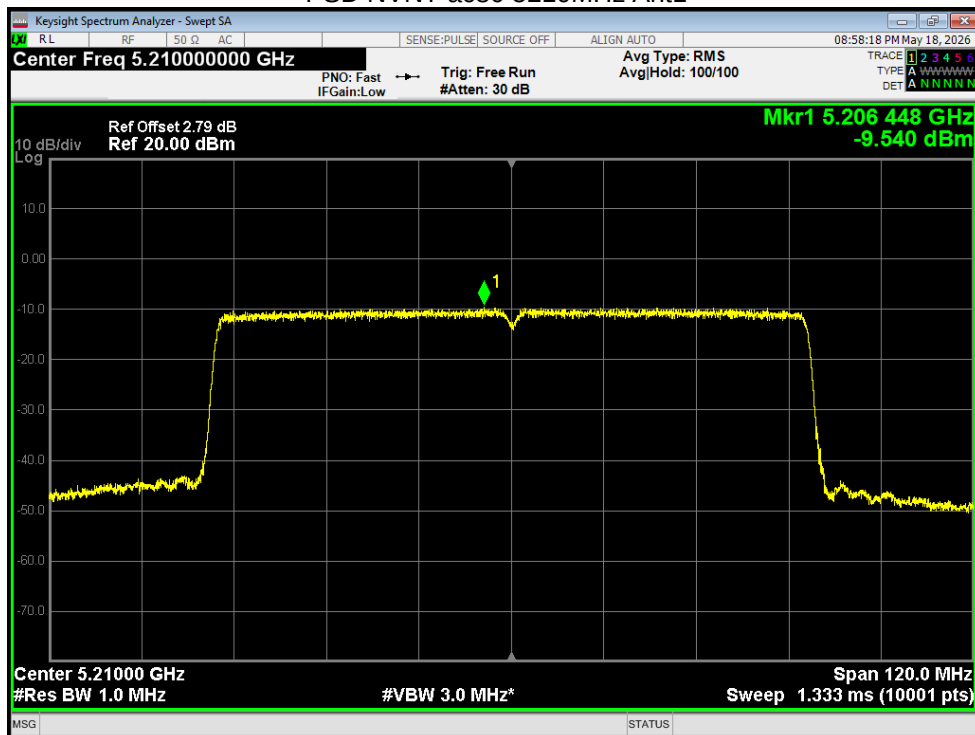
PSD NVNT ac40 5190MHz Ant1



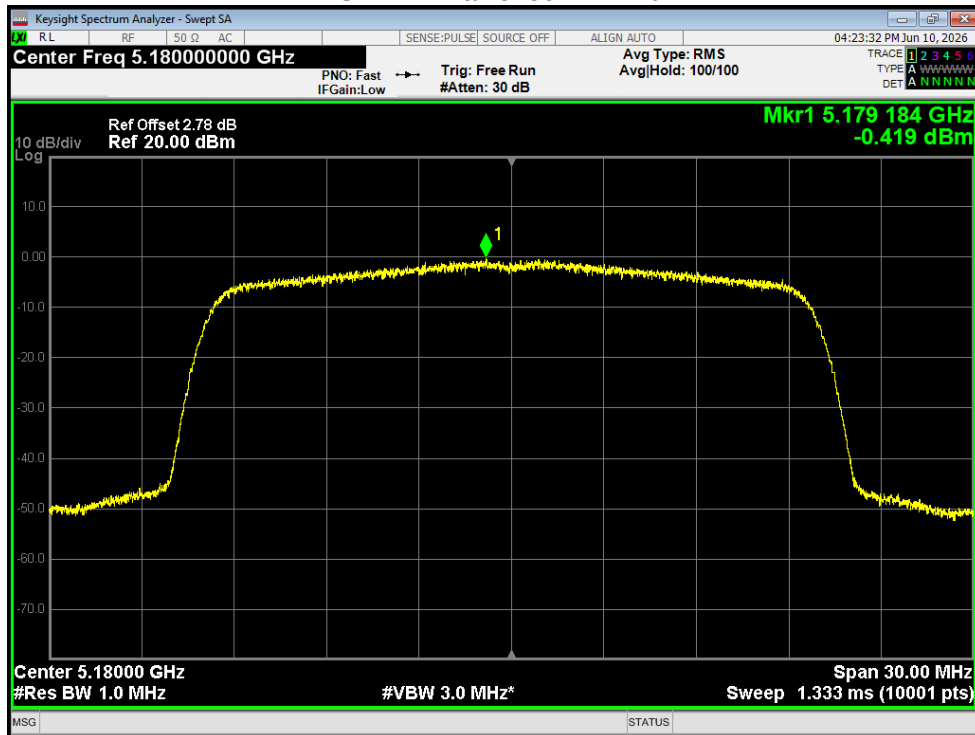
PSD NVNT ac40 5230MHz Ant1



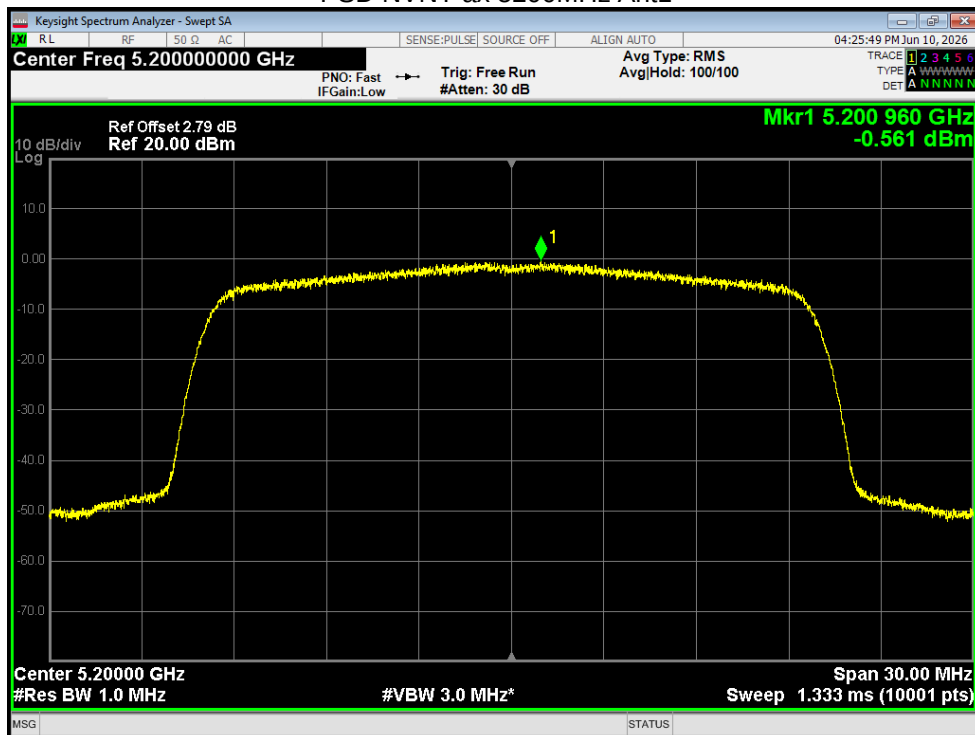
PSD NVNT ac80 5210MHz Ant1



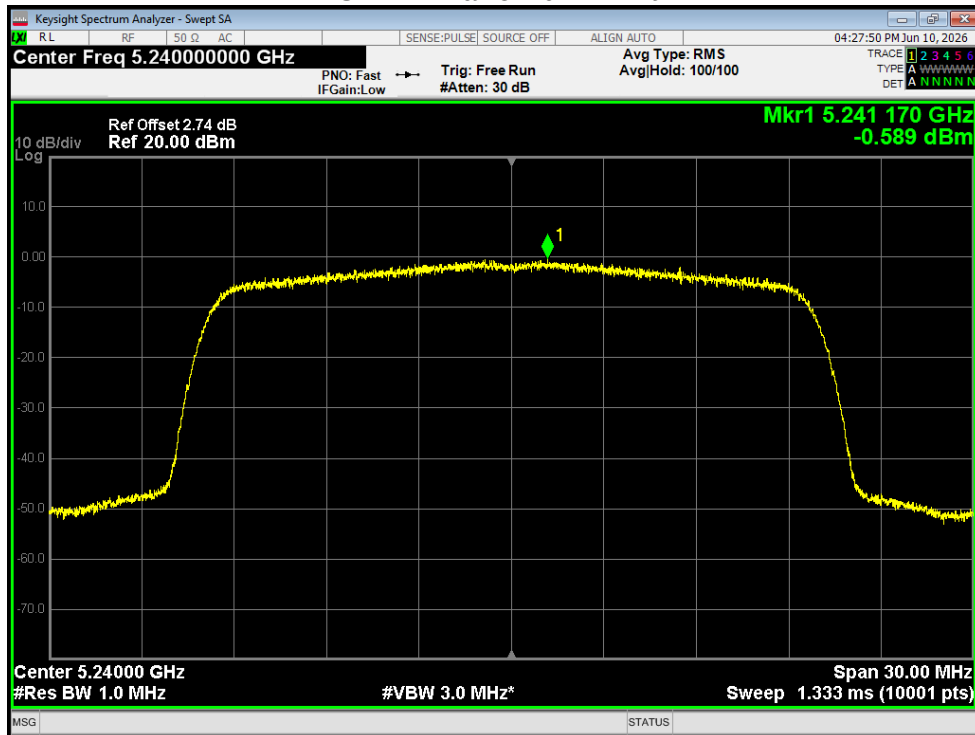
PSD NVNT ax 5180MHz Ant1



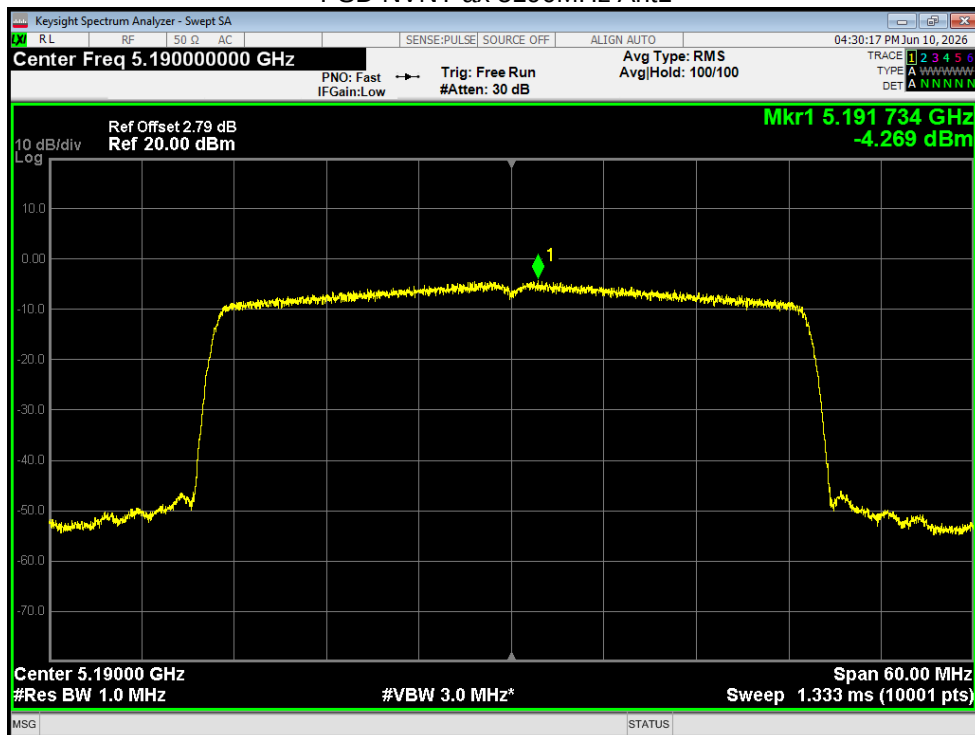
PSD NVNT ax 5200MHz Ant1



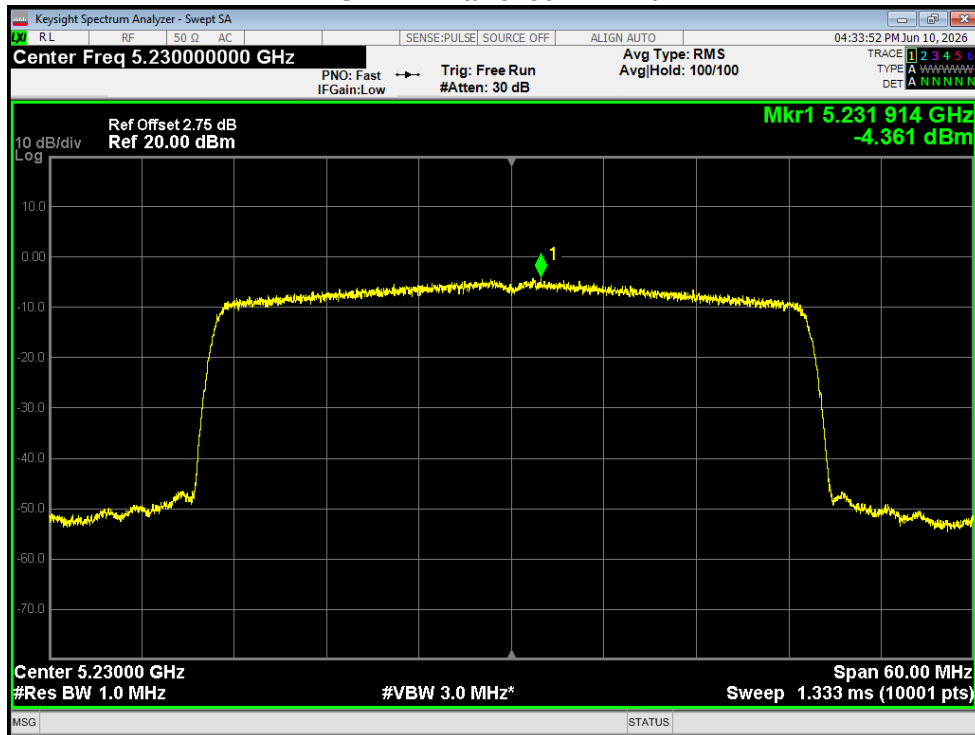
PSD NVNT ax 5240MHz Ant1



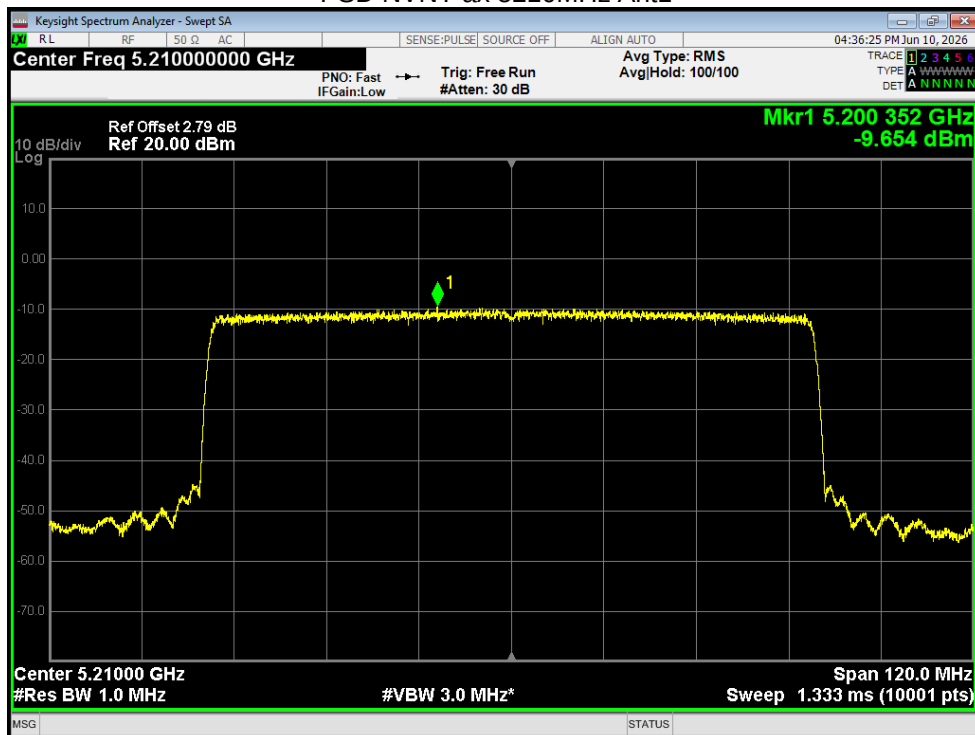
PSD NVNT ax 5190MHz Ant1



PSD NVNT ax 5230MHz Ant1



PSD NVNT ax 5210MHz Ant1





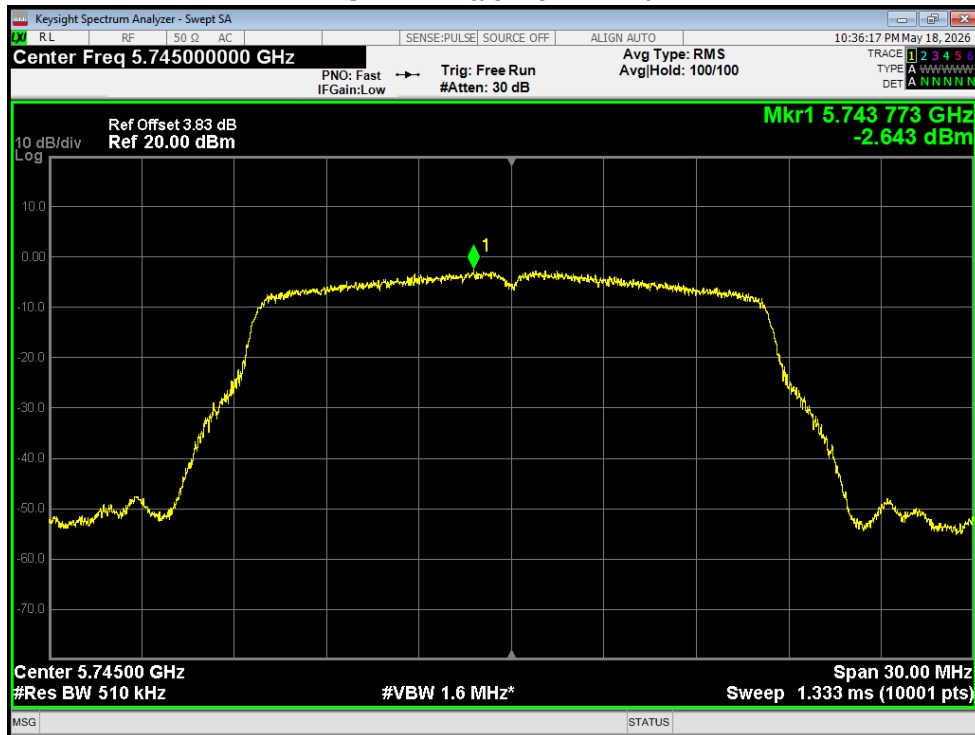
Mode	Frequency MHz	Measured Power Density (dBm/510KHz)	Measured Power Density (dBm/500KHz)	Correction Factor (dB)	Total Measured Power Density (dBm/500KHz)	Limit (dBm/500kHz)
802.11a	5745	-2.643	-2.729	0	-2.729	30
	5785	-1.929	-2.015	0	-2.015	30
	5825	-2.645	-2.731	0	-2.731	30
802.11n20	5745	-4.605	-4.691	0	-4.691	30
	5785	-2.845	-2.931	0	-2.931	30
	5825	-4.115	-4.201	0	-4.201	30
802.11n40	5755	-8.211	-8.297	0	-8.297	30
	5795	-8.203	-8.289	0	-8.289	30
802.11ac20	5745	-4.752	-4.838	0	-4.838	30
	5785	-2.98	-3.066	0	-3.066	30
	5825	-2.835	-2.921	0	-2.921	30
802.11ac40	5755	-6.604	-6.69	0	-6.69	30
	5795	-8.281	-8.367	0	-8.367	30
802.11ac80	5775	-13.324	-13.41	0	-13.41	30
802.11ax20	5745	-3.809	-3.895	0	-3.895	30
	5785	-4.021	-4.107	0	-4.107	30
	5825	-3.808	-3.894	0	-3.894	30
802.11ax40	5755	-7.757	-7.843	0	-7.843	30
	5795	-7.759	-7.845	0	-7.845	30
802.11ax80	5775	-13.557	-13.643	0	-13.643	30

Note: 1. If the measurement is X dBm/510kHz, thus $X \text{ dBm/510kHz} = (10^{X/10}) * (500 / 510) \text{ dBm/500kHz}$

2. Correction Factor (dB)= duty cycle factor

3. Total PSD= Measured PSD (dBm/510kHz) + Correction factor duty cycle (dB)

PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1

