



TEST REPORT

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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.: M03F,M03,HSD-M03,HSD-32****,M03****,HSD-M03****,H*****,M***** ('*' represents numbers 0-9, letters A-Z, a-z, symbols, or spaces, representing different colors and sales regions, which do not affect the safety and electromagnetic compatibility performance of the product)

Trade Mark: N/A

FCC ID: 2BVSY-M03F

Applicable standards: CFR Title 47 Part 15.247

Date of Test: Aug.24, 2026- Oct.10, 2026

Date of report issued: Oct.10, 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

Prepared By

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Contents

Page

1. TEST SUMMARY	4
2. GENERAL INFORMATION	5
2.1 GENERAL DESCRIPTION OF EUT	5
2.2 TEST MODE	7
2.3 DESCRIPTION OF SUPPORT UNITS	7
2.4 TEST FACILITY	7
2.5 ADDITIONAL INSTRUCTIONS	7
3. TEST INSTRUMENTS LIST	8
4. TEST RESULTS AND MEASUREMENT DATA	9
4.1 ANTENNA REQUIREMENT	9
4.2 CONDUCTED EMISSIONS	10
4.3 DUTY CYCLE	13
4.4 CONDUCTED OUTPUT POWER	20
4.5 6dB BANDWIDTH	21
4.6 POWER SPECTRAL DENSITY	28
4.7 BAND EDGES	35
<i>Conducted Emission Method</i>	<i>35</i>
<i>Radiated Emission Method</i>	<i>44</i>
4.8 SPURIOUS EMISSION	49
<i>Conducted Emission Method</i>	<i>49</i>
<i>Radiated Emission Method</i>	<i>63</i>
5. TEST SETUP PHOTO	79
6. EUT CONSTRUCTIONAL DETAILS	79

1. Test Summary

Test Item	Section	Result	Test by
Antenna requirement	47CFR Part 15.203 /247(b)(4)	Pass	/
AC Power Line Conducted Emission	47CFR part 15.207	Pass	Jason Huang
Conducted Output Power	47CFR part 15.247 (b)(3)	Pass	Oliver Wang
6dB Bandwidth	47CFR part 15.247 (a)(2)	Pass	Oliver Wang
Power Spectral Density	47CFR part 15.247 (e)	Pass	Oliver Wang
Band Edge	47CFR part 15.247(d) 47CFR part 15.205/15.209	Pass	Oliver Wang
Spurious Emission	47CFR part 15.247(d) 47CFR part 15.205/15.209	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+C63.10a-2024 + Errata to C63.10a-2024 and KDB558074 D01 15.247 Meas Guidance v05r02.
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/manufacturer. If measurement uncertainty is taken into account, the applicant/manufacturer will bear all possible risks of non-compliance.
 - 2).The measurement uncertainty please refer to each test result in the "Measurement Uncertainty"

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.:	M03F,M03,HSD-M03,HSD-32****,M03****,HSD-M03****,H*****,M***** ('*' represents numbers 0-9, letters A-Z, a-z, symbols, or spaces, representing different colors and sales regions, which do not affect the safety and electromagnetic compatibility performance of the product)
Difference of model(s)	All models have the same electrical design (i.e. circuit design, PCB layout, RF module/circuit, antenna type and position, components on PCB, etc.), mechanical structure and design are the same, only the model name and color are different
Test Model:	M03F
Hardware version:	N/A
Software version:	N/A
Power supply:	DC 19V/3.42A 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:	2.4G WLAN
Operation Frequency:	2412MHz~2462MHz
Channel Numbers:	802.11b/802.11g /802.11n20: 11 802.11n40:7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n20/802.11n40: Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Metal plate antenna
Antenna gain:	1.94dBi
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.	

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

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)	
	802.11b/802.11g/802.11n20	802.11n40
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

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:

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

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

2.3 Description of Support Units

No.	Description	Manufacturer	Model	Serial Number
1	LAPTOP	DELL	VOSTRO 3520	/
2	MOUSE	DELL	MS116	/

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

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101214	2026.3.05	2027.3.04
2	EMI Test Receiver	Rohde&schwarz	ESCI3	102696	2026.3.05	2027.3.04
3	Loop Antenna	schwarabeck	FMZB 1519 B	128	2026.3.08	2028.3.07
4	Broadband antenna	schwarabeck	VULB9168	1064	2026.3.11	2028.3.10
5	Horn antenna	schwarabeck	BBHA9120D	2288	2026.3.08	2028.3.07
6	amplifier	EMtrace	RP01A	50117	2026.3.05	2027.3.04
7	AMN	schwarabeck	NSLK8127	8127483	2026.3.05	2027.3.04
8	AMN	ETS	3186/2NM	1132	2026.3.05	2027.3.04
9	10dB attenuator	HUBER+SUHN R	10dB	/	2026.3.05	2027.3.04
10	amplifier	Space-Dtronics	EWLAN0118G-P40	19113001	2026.3.05	2027.3.04
11	Filter	Xingbo	XBLBQ-GTA19	210410-3-1	2026.3.05	2027.3.04
12	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2026.3.05	2027.3.04
13	Power control box	MWRFTtest	MW100-PSB	MW201020JYT	2026.3.05	2027.3.04
14	Power Sensor	Keysight	U2021XA	MY54111006	2026.3.05	2027.3.04
15	amplifier	SKET	LNPA_1840-50 (18-40GHz)	19113001	2026.3.05	2027.3.04
16	Horn antenna	schwarabeck	BBHA 9170	946	2026.3.08	2028.3.07
17	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	MWRFTtest	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 /247(b)(4)
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.	
15.247(b) (4) requirement: If transmitting antennas of directional gain greater than 6dBi are used, the conducted output power limit shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi	
EUT Antenna:	
The antenna is Metal plate antenna, the best case gain of the antenna is 1.94 dBi, reference to the internal photo for details.	

4.2 Conducted Emissions

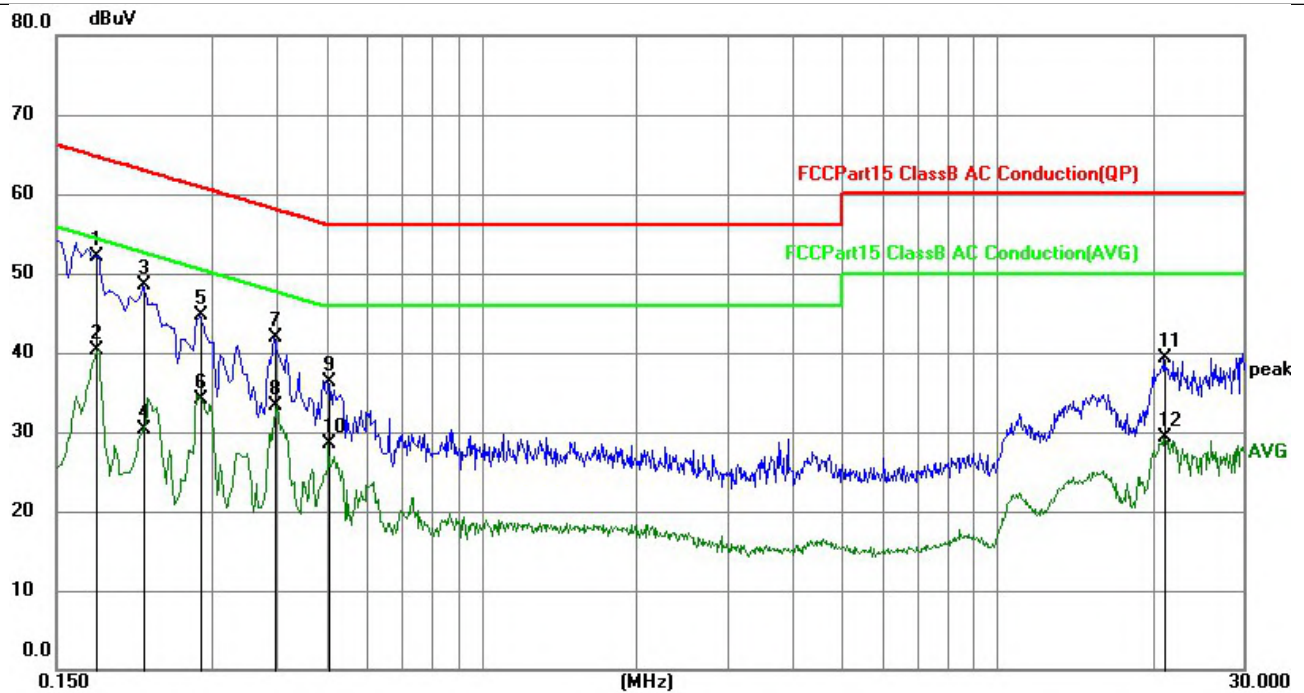
Test Requirement:	47CFR part 15.207					
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 §6.2					
Test Frequency Range:	150KHz to 30MHz					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto					
Limit:	Frequency range (MHz)		Limit (dBuV)			
			Quasi-peak		Average	
	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 40cm LISN AUX Equipment E.U.T Test table/Insulation plane 80cm LISN Filter EMI Receiver AC power Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m					
Test procedure:	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 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 on conducted measurement.					
Test Instruments:	Refer to section 3.0 for details					
Test mode:	Refer to section 2.2 for details					
Test environment:	Temp.:	24.2°C	Humid.:	53%	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 adapters have been pre tested, with FX65C-190342Z adapter having the worst data. This report only records the worst g (2437MHz) data.

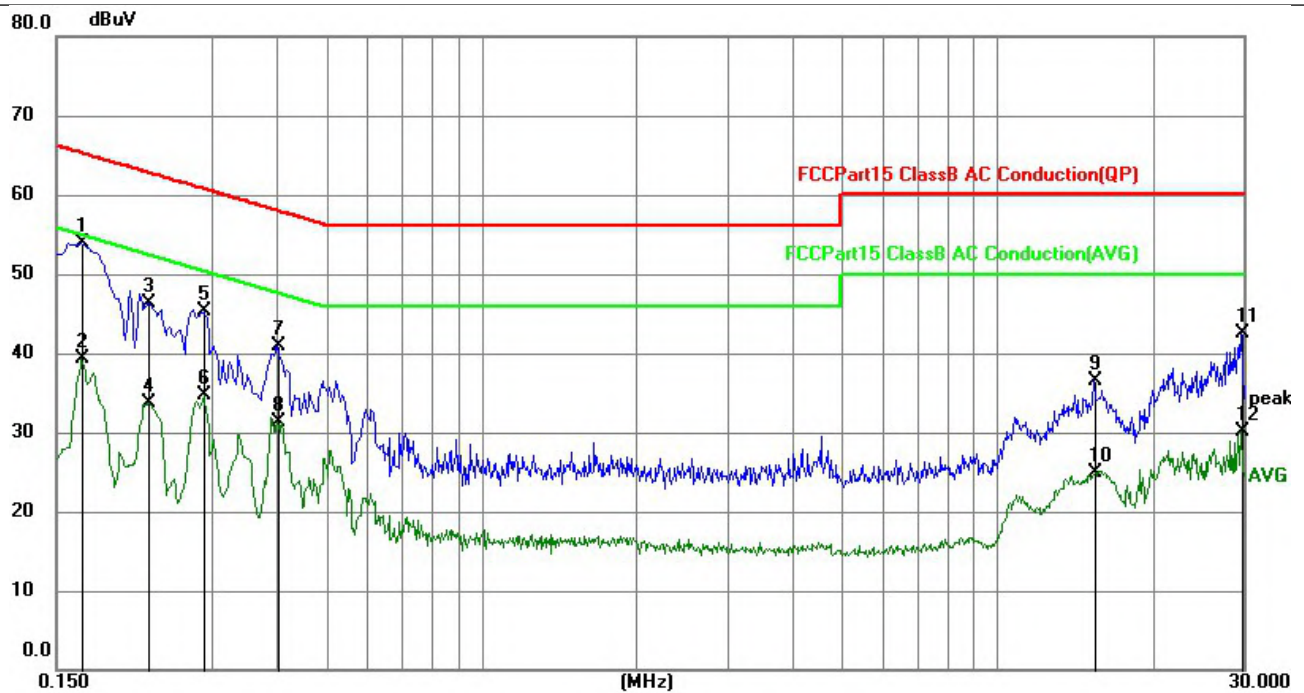
Measurement Result

Line:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1796	42.20	9.97	52.17	64.50	-12.33	QP
2	0.1796	30.36	9.97	40.33	54.50	-14.17	AVG
3	0.2220	38.58	9.98	48.56	62.74	-14.18	QP
4	0.2220	20.38	9.98	30.36	52.74	-22.38	AVG
5	0.2850	34.62	10.00	44.62	60.67	-16.05	QP
6	0.2850	24.06	10.00	34.06	50.67	-16.61	AVG
7	0.3975	31.77	10.05	41.82	57.91	-16.09	QP
8	0.3975	23.25	10.05	33.30	47.91	-14.61	AVG
9	0.5055	26.16	10.08	36.24	56.00	-19.76	QP
10	0.5055	18.38	10.08	28.46	46.00	-17.54	AVG
11	21.0660	29.45	9.91	39.36	60.00	-20.64	QP
12	21.0660	19.33	9.91	29.24	50.00	-20.76	AVG

Neutral:

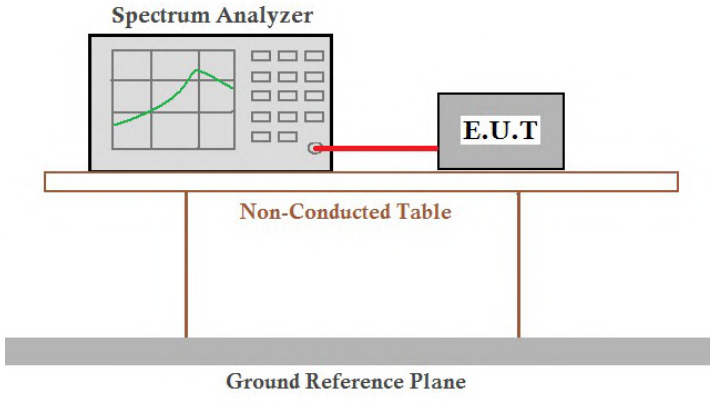


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1680	43.90	9.97	53.87	65.06	-11.19	QP
2	0.1680	29.37	9.97	39.34	55.06	-15.72	AVG
3	0.2265	36.37	9.98	46.35	62.58	-16.23	QP
4	0.2265	23.68	9.98	33.66	52.58	-18.92	AVG
5	0.2895	35.31	10.00	45.31	60.54	-15.23	QP
6	0.2895	24.69	10.00	34.69	50.54	-15.85	AVG
7	0.4020	30.92	10.05	40.97	57.81	-16.84	QP
8	0.4020	21.33	10.05	31.38	47.81	-16.43	AVG
9	15.4680	26.54	9.99	36.53	60.00	-23.47	QP
10	15.4680	14.84	9.99	24.83	50.00	-25.17	AVG
11	29.7960	32.73	9.76	42.49	60.00	-17.51	QP
12	29.7960	20.26	9.76	30.02	50.00	-19.98	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+C63.10a-2024 + Errata to C63.10a-2024§11.6	
Limit:	/	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.2°C	Humid.: 53%RH
Test voltage:	DC 14.8V from battery	
Test results:	Pass	

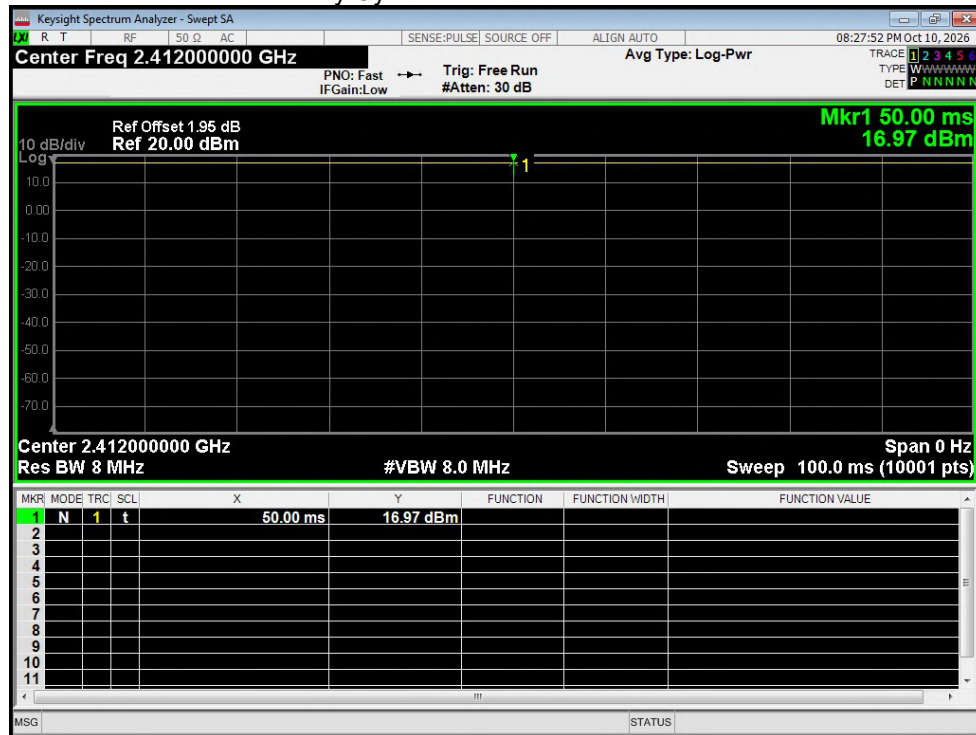
Measurement Result

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	100	0
NVNT	b	2437	Ant1	100	0
NVNT	b	2462	Ant1	100	0
NVNT	g	2412	Ant1	100	0
NVNT	g	2437	Ant1	100	0
NVNT	g	2462	Ant1	100	0
NVNT	n20	2412	Ant1	100	0
NVNT	n20	2437	Ant1	100	0
NVNT	n20	2462	Ant1	100	0
NVNT	n40	2422	Ant1	100	0
NVNT	n40	2437	Ant1	100	0
NVNT	n40	2452	Ant1	100	0

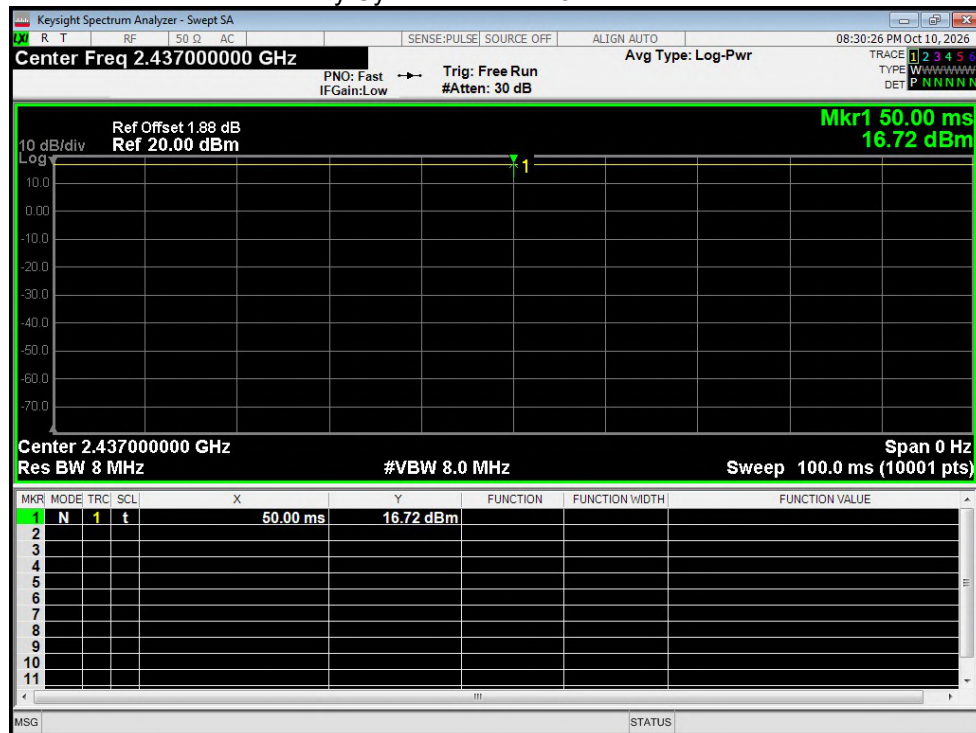
Note: Duty cycle factor (dB) = $10 * \log (1/ \text{Duty cycle})$

Test plot as follows:

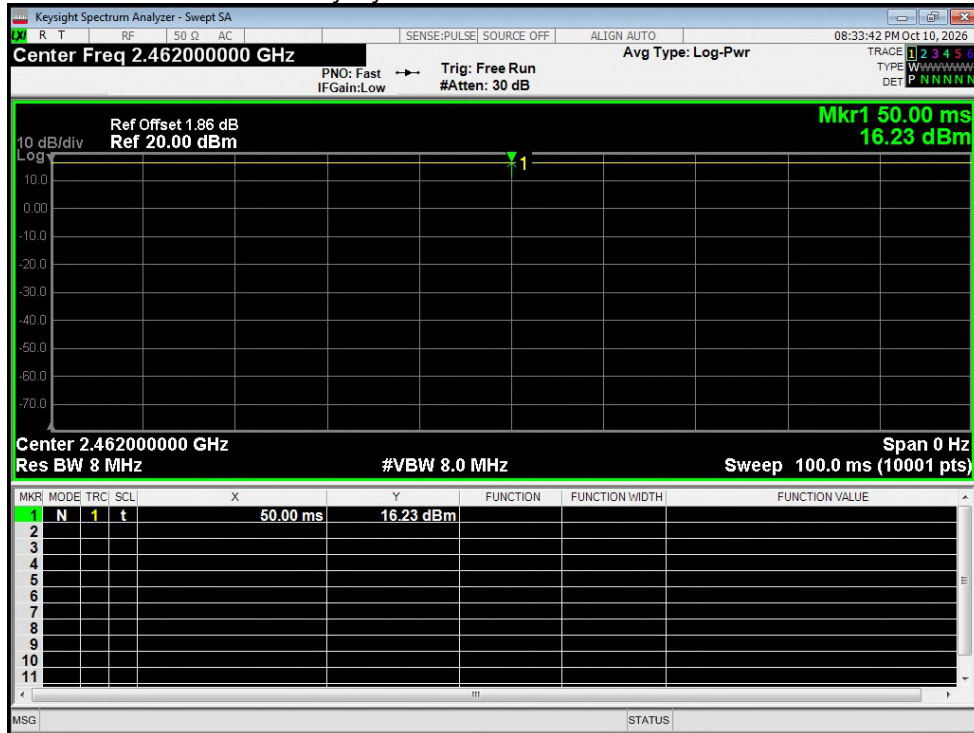
Duty Cycle NVNT b 2412MHz Ant1



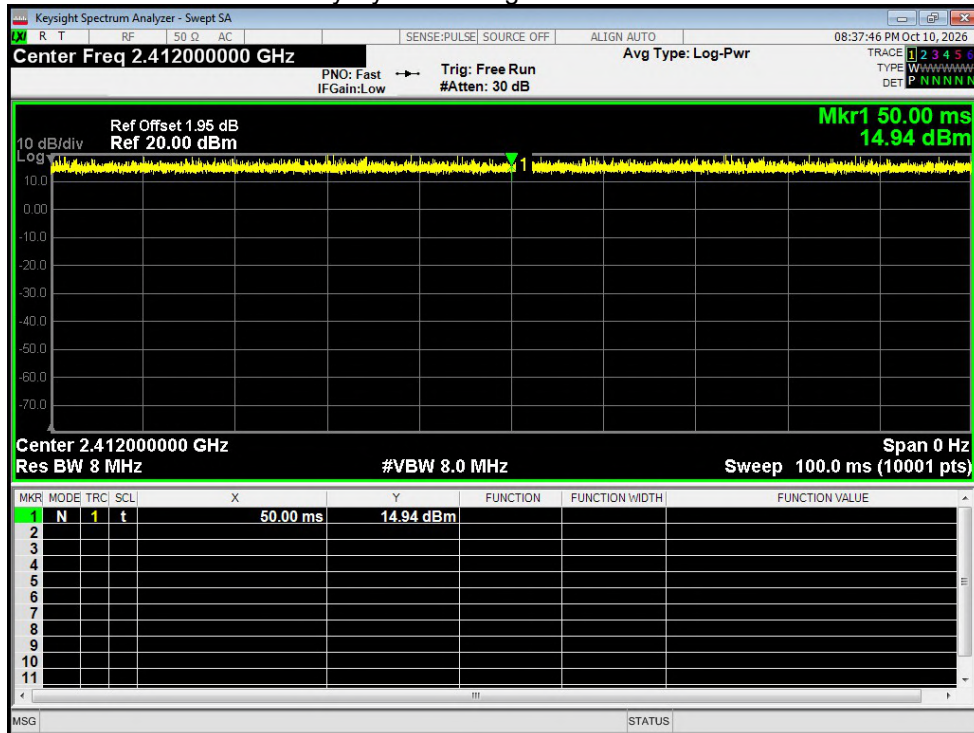
Duty Cycle NVNT b 2437MHz Ant1



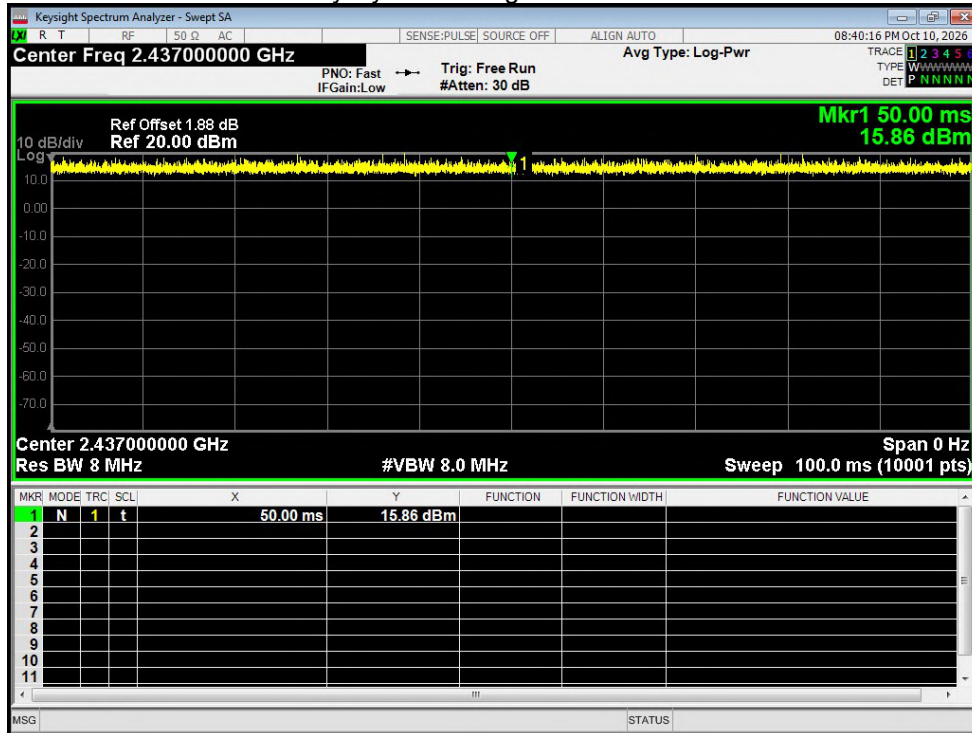
Duty Cycle NVNT b 2462MHz Ant1



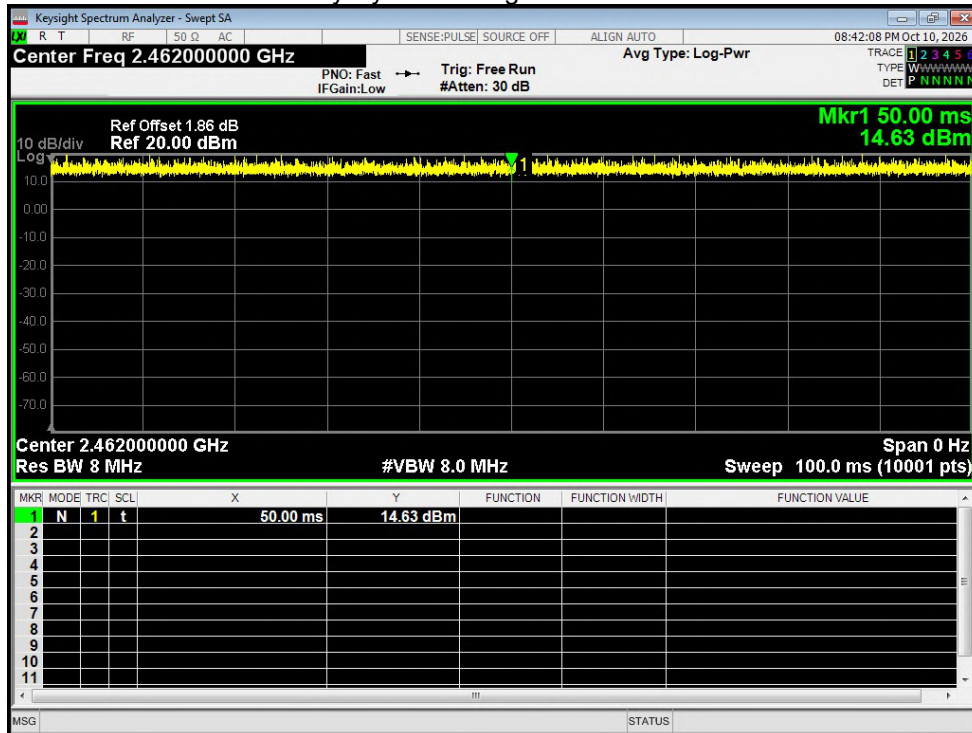
Duty Cycle NVNT g 2412MHz Ant1



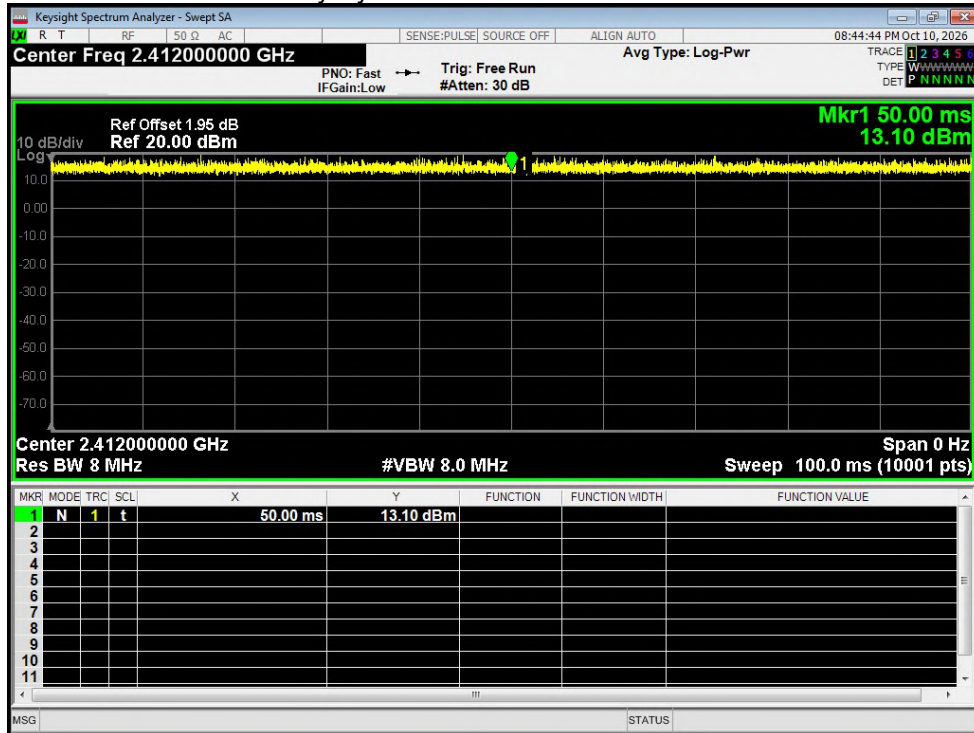
Duty Cycle NVNT g 2437MHz Ant1



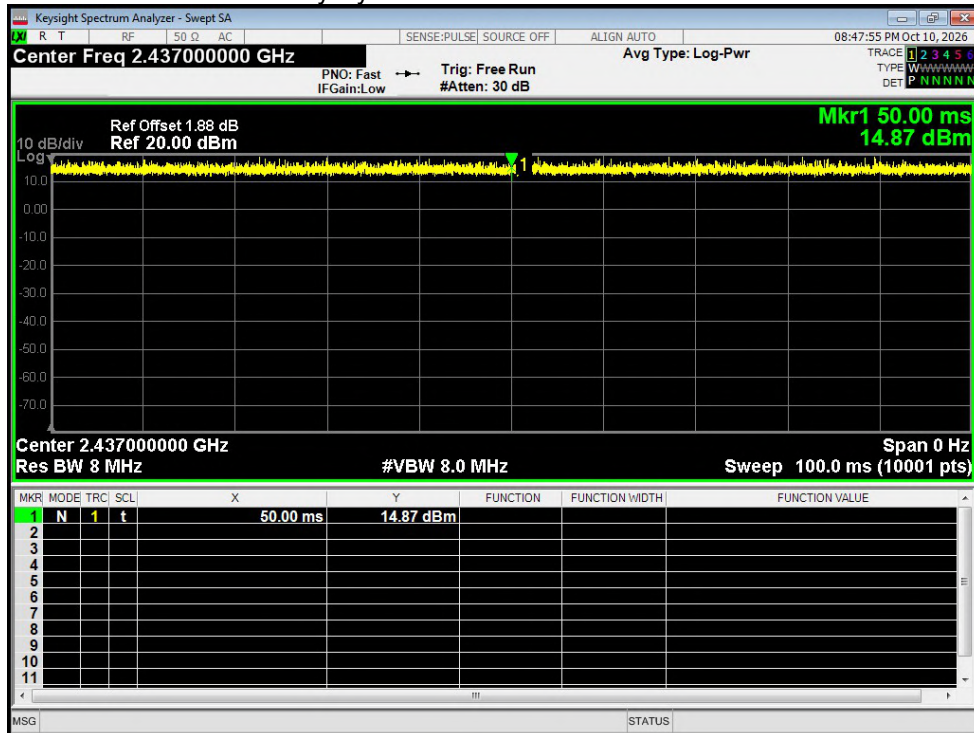
Duty Cycle NVNT g 2462MHz Ant1



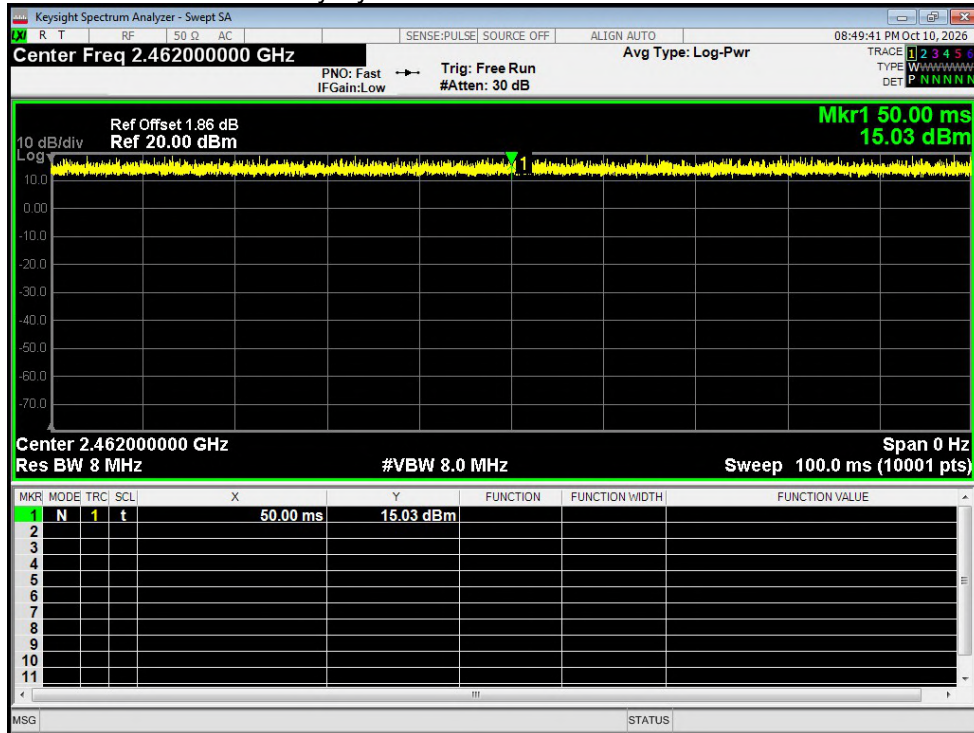
Duty Cycle NVNT n20 2412MHz Ant1



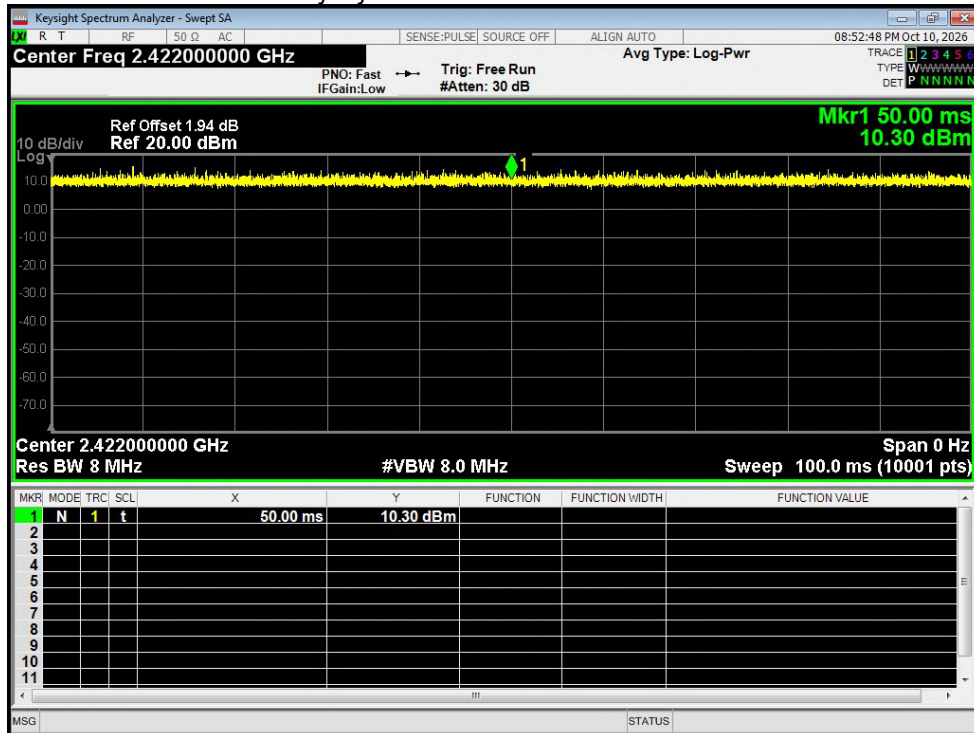
Duty Cycle NVNT n20 2437MHz Ant1



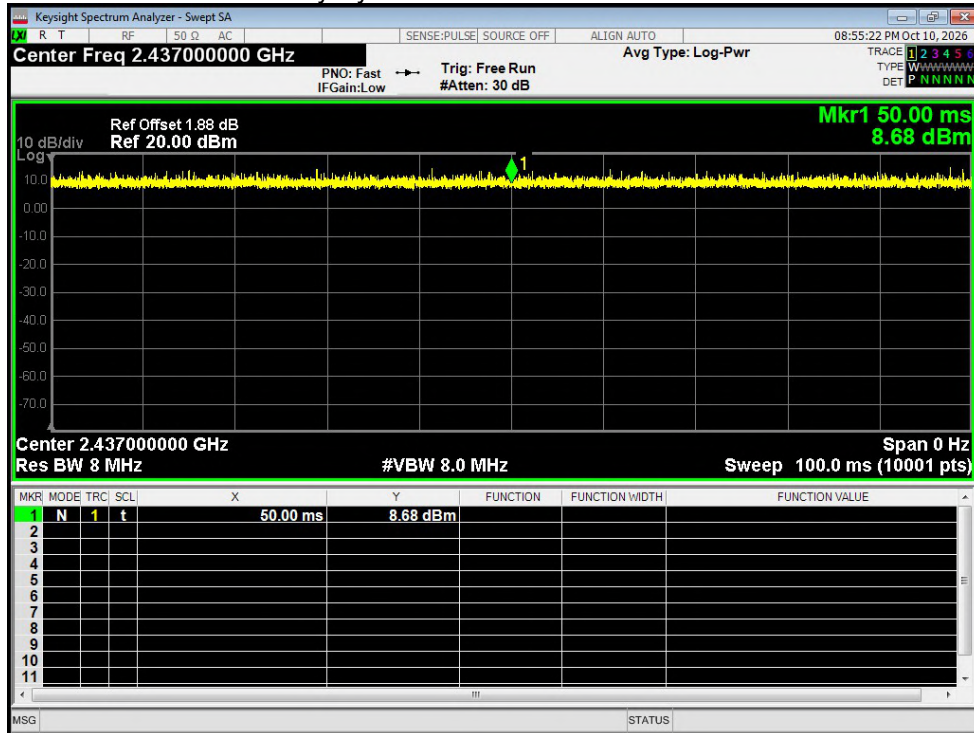
Duty Cycle NVNT n20 2462MHz Ant1



Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1

