



RF TEST REPORT

Product Name: Vigilant Eye

Model Name: BWC 2.0

FCC ID: 2AM6L-BWC2

Issued For : Streamax Technology Co.,Ltd.

21-23/F, Building B1, Zhiyuan, No.1001 Xueyuan Avenue,
Nanshan District, Shenzhen, Guangdong, China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street,
Pingshan District, Shenzhen, Guangdong, China

Report Number: LGT25B044RF04

Sample Received Date: Feb. 17, 2025

Date of Test: Feb. 17, 2025 ~ Mar. 08, 2025

Date of Issue: Mar. 13, 2025

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Shenzhen, Guangdong, China



TEST REPORT CERTIFICATION

Applicant: Streamax Technology Co.,Ltd.
Address: 21-23/F, Building B1, Zhiyuan, No.1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong, China

Manufacturer: Streamax Technology Co.,Ltd.
Address: 21-23/F, Building B1, Zhiyuan, No.1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong, China

Product Name: Vigilant Eye

Trademark: N/A

Model Name: BWC 2.0

Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.407, Subpart E ANSI C63.10-2013	PASS

Prepared by:

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Approved by:

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Technical Director





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Revision History

Rev.	Issue Date	Contents
00	Mar. 13, 2025	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Part 15.407, KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

FCC Part 15.407		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	PASS
15.407 (a) /15.407 (e)	26dB/6dB &99% Bandwidth	PASS
15.407(a)	Maximum Conducted Output Power	PASS
15.407(b)/15.205/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(a)	Power Spectral Density	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
15.203/15.204	Antenna Requirement	PASS

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.68\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.988\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.84\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.39\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 5.10\text{dB}$
6	All emissions, radiated >6G	$\pm 5.48\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.79\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.80\text{dB}$
9	Bandwidth	$\pm 10.40\text{KHz}$
10	PSD	$\pm 1.5734\text{dB}$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Vigilant Eye								
Trademark:	N/A								
Model Name:	BWC 2.0								
Series Model:	N/A								
Model Difference:	N/A								
Product Description:	<table border="1"> <tr> <td>Operation Frequency:</td><td> IEEE 802.11a/n(HT20)/ac(VHT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80): 5.210GHz IEEE 802.11a/n(HT20)/ac(VHT20): 5.260GHz-5.320GHz IEEE 802.11 n(HT40)/ac(VHT40): 5.270GHz-5.310GHz IEEE 802.11ac(VHT80): 5.290GHz IEEE 802.11a/n(HT20)/ac(VHT20): 5.500GHz-5.700GHz IEEE 802.11 n(HT40)/ac(VHT40): 5.510GHz-5.670GHz IEEE 802.11ac(VHT80): 5.530GHz-5.610GHz </td></tr> <tr> <td>Modulation Type:</td><td> 802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM </td></tr> <tr> <td>Antenna Designation:</td><td>FPC</td></tr> <tr> <td>Antenna Gain(dBi)</td><td>4.4</td></tr> </table> More details of EUT technical specification, please refer to the User Manual.	Operation Frequency:	IEEE 802.11a/n(HT20)/ac(VHT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80): 5.210GHz IEEE 802.11a/n(HT20)/ac(VHT20): 5.260GHz-5.320GHz IEEE 802.11 n(HT40)/ac(VHT40): 5.270GHz-5.310GHz IEEE 802.11ac(VHT80): 5.290GHz IEEE 802.11a/n(HT20)/ac(VHT20): 5.500GHz-5.700GHz IEEE 802.11 n(HT40)/ac(VHT40): 5.510GHz-5.670GHz IEEE 802.11ac(VHT80): 5.530GHz-5.610GHz	Modulation Type:	802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM	Antenna Designation:	FPC	Antenna Gain(dBi)	4.4
Operation Frequency:	IEEE 802.11a/n(HT20)/ac(VHT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80): 5.210GHz IEEE 802.11a/n(HT20)/ac(VHT20): 5.260GHz-5.320GHz IEEE 802.11 n(HT40)/ac(VHT40): 5.270GHz-5.310GHz IEEE 802.11ac(VHT80): 5.290GHz IEEE 802.11a/n(HT20)/ac(VHT20): 5.500GHz-5.700GHz IEEE 802.11 n(HT40)/ac(VHT40): 5.510GHz-5.670GHz IEEE 802.11ac(VHT80): 5.530GHz-5.610GHz								
Modulation Type:	802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM								
Antenna Designation:	FPC								
Antenna Gain(dBi)	4.4								
Test Channel:	Please refer to the Note 3.								
Rating:	Input: DC 5V 2A								
Battery:	Battery 1: Capacity: 4000mAh Rated Voltage: 3.8V Battery 2: Capacity: 80mAh Rated Voltage: 3.7V								
Hardware Version:	N/A								
Software Version:	N/A								
Connecting I/O Port(s):	Please refer to the Note 1.								



Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

Operation Frequency of channel			
5.180GHz-5.240GHz		5.260GHz-5.320GHz	
Channel	Frequency	Channel	Frequency
36	5180	52	5260
38	5190	54	5270
40	5200	56	5280
42	5210	58	5290
44	5220	60	5300
46	5230	62	5310
48	5240	64	5320
--	--	--	--
5.500GHz-5.720GHz		--	
Channel	Frequency	--	--
100	5500	--	--
102	5510	--	--
104	5520	--	--
108	5540	--	--
110	5550	--	--
112	5560	--	--
116	5580	--	--
118	5590	--	--
120	5600	--	--
124	5620	--	--
126	5630	--	--
128	5640	--	--
132	5660	--	--
134	5670	--	--
136	5680	--	--
140	5700	--	--
142	5710	--	--
144	5720	--	--

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:

Carrier Frequency Channel

Channel List for 802.11a/n/ac(20MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	52	5260	100	5500	--	--
40	5200	60	5300	116	5580	--	--
48	5240	64	5320	140	5700	--	--



Channel List for 802.11n/ac(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	54	5270	102	5510	--	--
46	5230	62	5310	110	5550	--	--
134	5670	--	--	--	--	--	--

Channel List for 802.11ac(80MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	58	5290	106	5530	--	--
122	5610	--	--	--	--	--	--



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH52&CH60&CH64	6 Mbps
Mode 3	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 4	TX IEEE 802.11ac VHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 5	TX IEEE 802.11n HT20 CH52&CH60&CH64	MCS 0
Mode 6	TX IEEE 802.11ac VHT20 CH52&CH60&CH64	NSS1 MCS0
Mode 7	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 8	TX IEEE 802.11ac VHT40 CH38&CH46	NSS1 MCS0
Mode 9	TX IEEE 802.11n HT40 CH54 &CH62	MCS 0
Mode 10	TX IEEE 802.11ac VHT40 CH54 &CH62	NSS1 MCS0
Mode 11	TX IEEE 802.11ac VHT80 CH42	NSS1 MCS0
Mode 12	TX IEEE 802.11ac VHT80 CH58	NSS1 MCS0

Note: (1) The measurements are performed at the highest, middle, lowest available channels.
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
(3) We have been tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.
(4) The battery is fully-charged during the radiated and RF conducted test.
(5) All 20M, 40M bandwidth modes have been tested, and the report only shown the worst mode data

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 13: TX Mode



2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: 5G WIFI B1	
SecureCRT_6.5.0.380	Mode Or Modulation type	Power setting
	a	Default
	n20	Default
	n40	Default
	ac20	Default
	ac40	Default
	ac80	Default
Test software Version	Test program: 5G WIFI B2	
SecureCRT_6.5.0.380	Mode Or Modulation type	Power setting
	a	Default
	n20	Default
	n40	Default
	ac20	Default
	ac40	Default
	ac80	Default
Test software Version	Test program: 5G WIFI B3	
SecureCRT_6.5.0.380	Mode Or Modulation type	Power setting
	a	Default
	n20	Default
	n40	Default
	ac20	Default
	ac40	Default
	ac80	Default



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	HKF-16	N/A	N/A
Adapter	Tenpao	S005CAU0500100	N/A	Input: 100-240V ~ 50/60Hz 0.2A Output: 5V, 1A
USB-A to USB-C Cable	N/A	N/A	N/A	1m

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.5 EQUIPMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
LISN	COM-POWER	LI-115	02032	2024.03.09	2025.03.08
LISN	SCHWARZBECK	NNLK 8122	00160	2024.03.09	2025.03.08
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2024.03.09	2025.03.08
Temperature & Humidity	KTJ	TA218B	N.A	2024.03.09	2025.03.08
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
Active loop Antenna	ETS	6502	00049544	2023.10.13	2025.10.12
Spectrum Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04
Bilog Antenna(30M-1G)	SCHWARZBECK	VULB 9168	2705	2022.12.12	2025.12.11
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01
Horn Antenna(18-40G)	A-INFO	LB-180400-KF	J211060273	2022.06.08	2025.06.07
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2024.03.09	2025.03.08
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2024.03.09	2025.03.08
Pre-amplifier(18-40G)	com-mw	LNPA_18-40-01	18050003	2024.03.09	2025.03.08
Wireless Communications Test Set	R&S	CMW 500	137737	2024.03.09	2025.03.08
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04
Signal Analyzer	Keysight	N9020A	MY50530994	2024.03.09	2025.03.08
RF Automatic Test system	MW	MW100-RFCB	MW220322LG-033	2024.03.09	2025.03.08
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2024.03.09	2025.03.08
Attenuator	eastsheep	90db	N.A	2024.03.09	2025.03.08
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Digital multimeter	MASTECH	MS8261	MBGBC83053	2024.03.09	2025.03.08
Testing Software	MTS8310_V2.0.0.0_MW				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



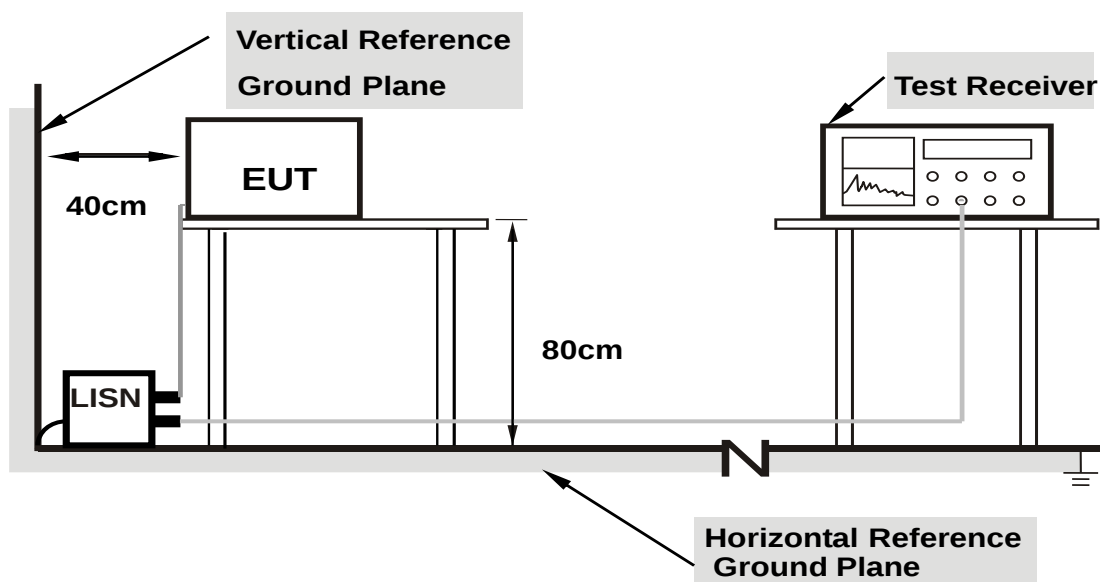
3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

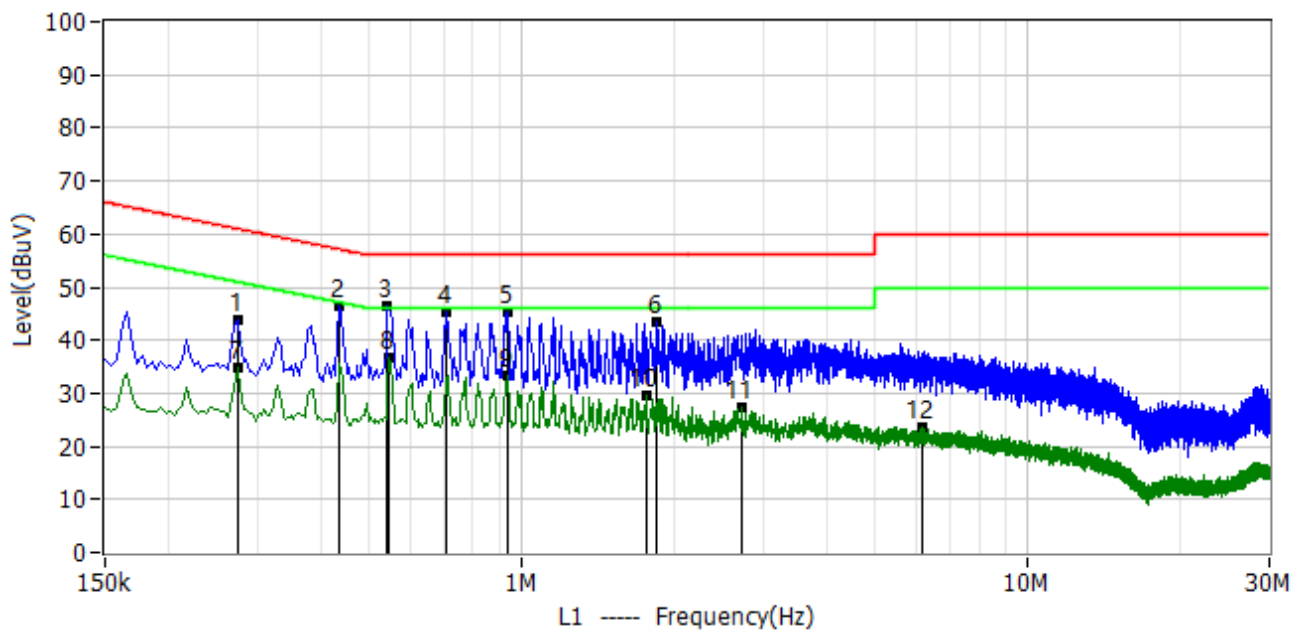
3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.1.6 TEST RESULTS

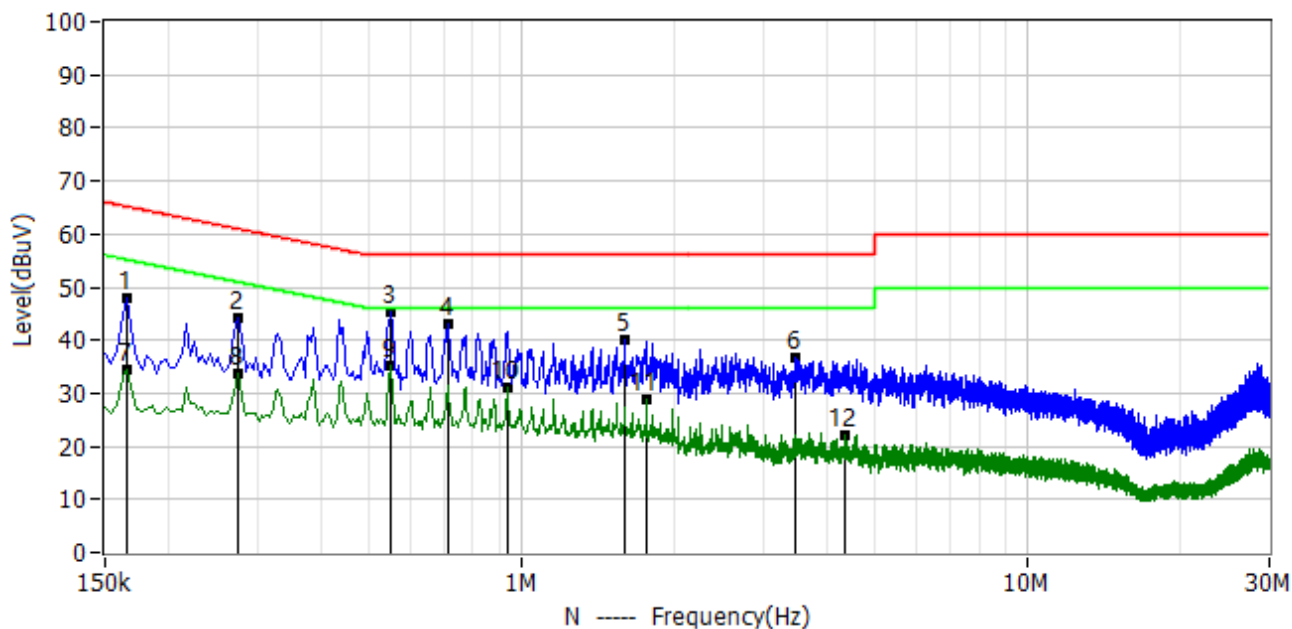
Project: LGT25B044	Test Engineer: LiuH
EUT: Vigilant Eye	Temperature: 23.7°C
M/N: BWC 2.0	Humidity: 55%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-02-20
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.274	33.23	10.59	43.82	61.00	-17.17	QP	L1
2*	0.434	35.76	10.57	46.33	57.18	-10.84	QP	L1
3*	0.542	35.74	10.57	46.31	56.00	-9.69	QP	L1
4*	0.706	34.84	10.57	45.41	56.00	-10.59	QP	L1
5*	0.938	34.68	10.66	45.34	56.00	-10.66	QP	L1
6*	1.850	32.35	10.94	43.29	56.00	-12.71	QP	L1
7*	0.274	24.42	10.59	35.01	51.00	-15.99	AV	L1
8*	0.546	26.18	10.57	36.75	46.00	-9.25	AV	L1
9*	0.934	22.75	10.66	33.41	46.00	-12.59	AV	L1
10*	1.766	18.73	10.92	29.65	46.00	-16.35	AV	L1
11*	2.722	16.07	11.14	27.21	46.00	-18.79	AV	L1
12*	6.202	12.57	11.03	23.60	50.00	-26.40	AV	L1



Project: LGT25B044	Test Engineer: LiuH
EUT: Vigilant Eye	Temperature: 23.7°C
M/N: BWC 2.0	Humidity: 55%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-02-20
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.166	37.26	10.56	47.82	65.16	-17.34	QP	N
2*	0.274	33.80	10.58	44.38	61.00	-16.62	QP	N
3*	0.550	34.83	10.55	45.38	56.00	-10.62	QP	N
4*	0.714	32.60	10.56	43.16	56.00	-12.84	QP	N
5*	1.598	29.23	10.67	39.90	56.00	-16.10	QP	N
6*	3.470	25.94	10.80	36.74	56.00	-19.26	QP	N
7*	0.166	23.73	10.56	34.29	55.16	-20.87	AV	N
8*	0.274	23.01	10.58	33.59	51.00	-17.40	AV	N
9*	0.550	24.69	10.55	35.24	46.00	-10.76	AV	N
10*	0.934	20.68	10.55	31.23	46.00	-14.77	AV	N
11*	1.762	18.00	10.71	28.71	46.00	-17.29	AV	N
12*	4.350	11.36	10.82	22.18	46.00	-23.82	AV	N



3.2 RADIATED EMISSION AND (BANDEGE) MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.407(b)7&15.205/209(a), then the limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	68.2	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15E.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

Note: In case the emission radiated emission above 1000MHz fall within the restricted band the restricted frequency bands, the peak limit is 74 dBuV/m.



LIMITS OF EMISSIONS OUTSIDE OF THE FREQUENCY BANDS

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note: dBuV/m(at 3M) = EIRP(dBm) + 95.2.

Peak Limit = -27dBm/MHz + 95.2 = 68.2 dBuV/m.

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic (Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

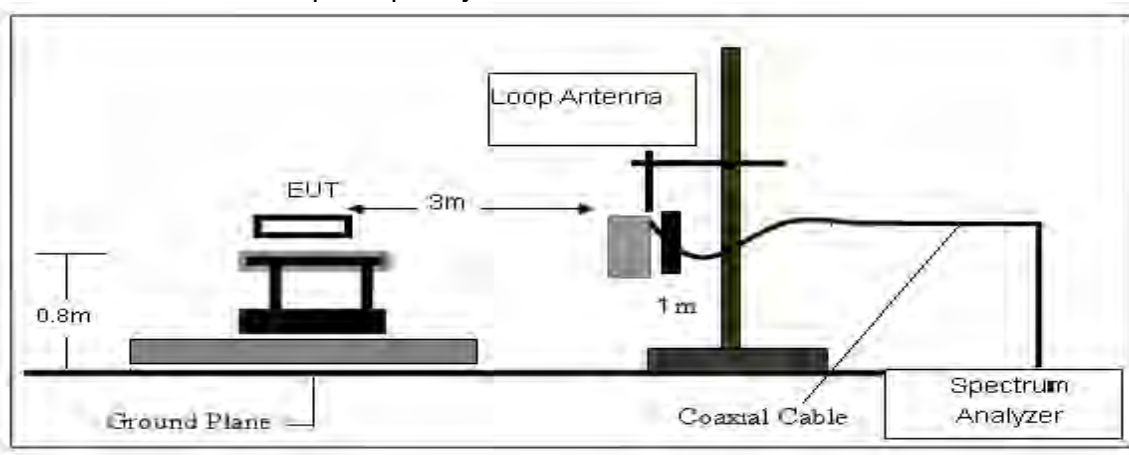
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.2 DEVIATION FROM TEST STANDARD

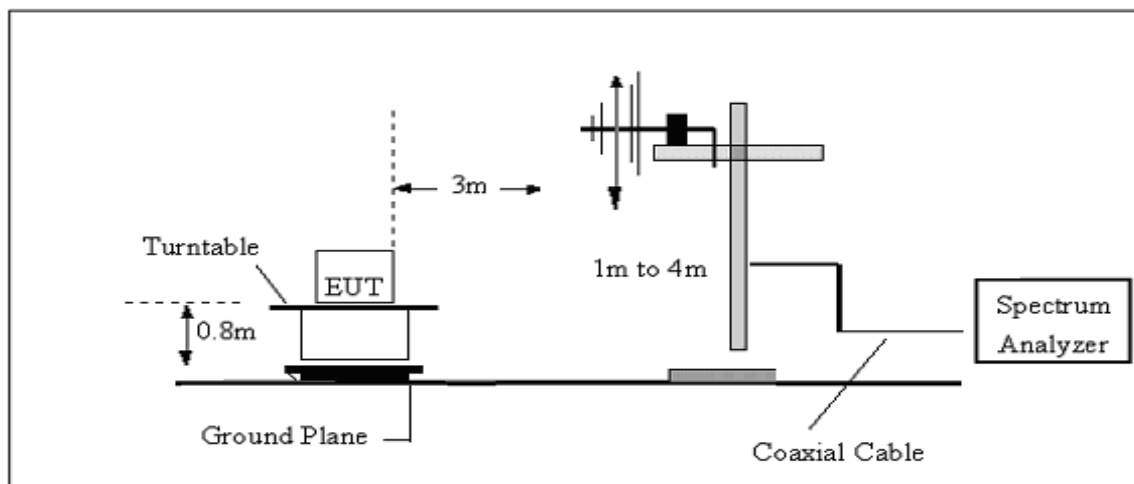
No deviation

3.2.3 TEST SETUP

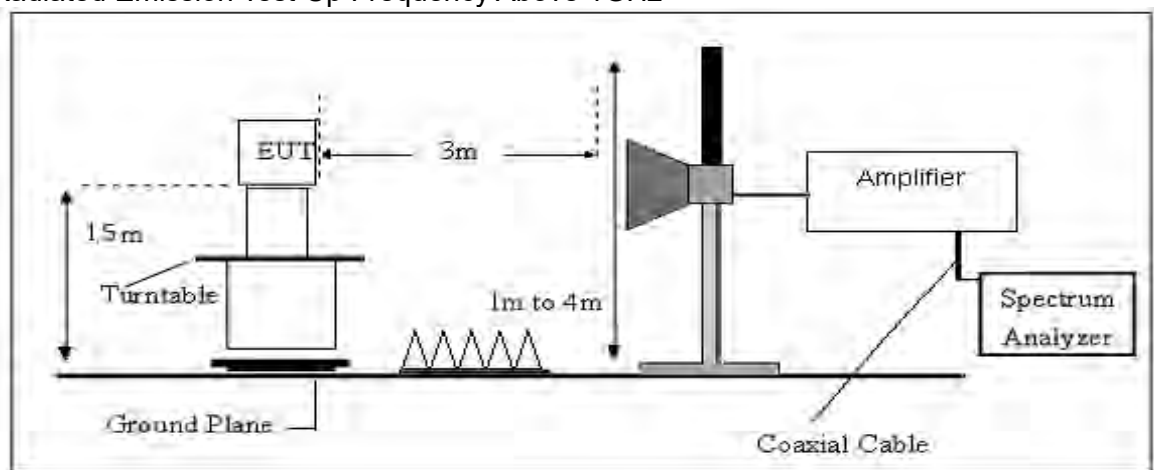
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz





3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



3.2.6 TEST RESULTS

Results of Radiated Emissions (9 KHz~30MHz)

No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Remark
1*	-	-	-	-	-	-	-	See Note

Note:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

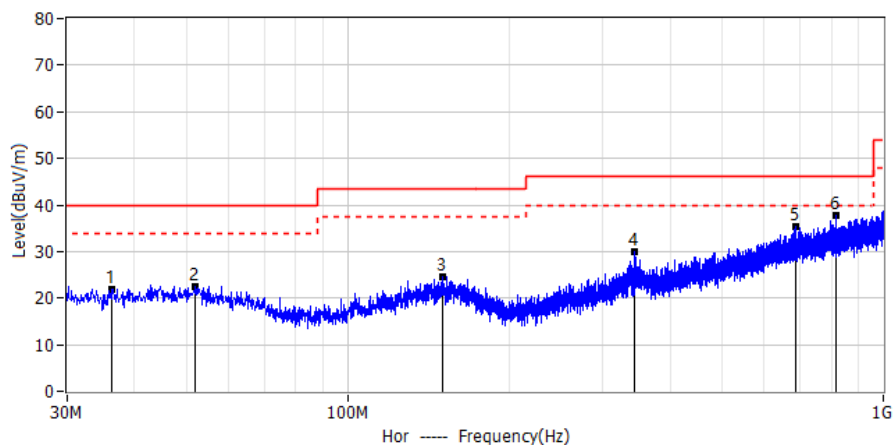
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

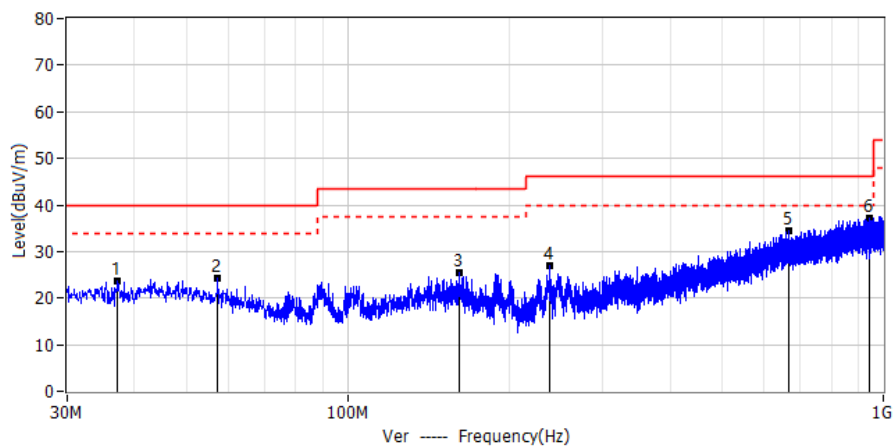


Results of Radiated Emissions (30MHz~1000MHz)

Project: LGT25B044	Test Engineer: LiuH
EUT: Vigilant Eye	Temperature: 20°C
M/N: BWC 2.0	Humidity: 55%RH
Test Voltage: Battery	Test Data: 2025-02-21
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	36.426	2.07	19.91	21.98	40.00	-18.02	QP	Hor
2*	52.068	2.07	20.40	22.47	40.00	-17.53	QP	Hor
3*	150.523	3.20	21.45	24.65	43.50	-18.85	QP	Hor
4*	344.038	7.36	22.61	29.97	46.00	-16.03	QP	Hor
5*	687.418	5.15	30.09	35.24	46.00	-10.76	QP	Hor
6*	814.973	5.49	32.14	37.63	46.00	-8.37	QP	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	37.275	3.89	19.83	23.72	40.00	-16.28	QP	Ver
2*	57.160	4.42	19.95	24.37	40.00	-15.63	QP	Ver
3*	161.314	4.15	21.31	25.46	43.50	-18.04	QP	Ver
4*	237.944	8.31	18.75	27.06	46.00	-18.94	QP	Ver
5*	665.108	4.71	29.68	34.39	46.00	-11.61	QP	Ver
6*	944.346	3.45	33.60	37.05	46.00	-8.95	QP	Ver



Results of Radiated Emissions (Above 1000MHz)

Band I(5.15-5.25) GHz							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
Low Channel (802.11/ 5180 MHz)							
3995.35	52.49	-6.89	45.60	74.00	-28.40	PK	Vertical
3995.35	42.01	-6.89	35.12	54.00	-18.88	AV	Vertical
3999.26	53.44	-6.89	46.55	74.00	-27.45	PK	Horizontal
3999.26	43.33	-6.89	36.44	54.00	-17.56	AV	Horizontal
8919.88	53.31	-3.80	49.51	68.20	-18.69	PK	Vertical
8919.88	43.12	-3.80	39.32	54.00	-14.68	AV	Vertical
8917.02	53.15	-3.80	49.35	68.20	-18.85	PK	Horizontal
8917.02	44.17	-3.80	40.37	54.00	-13.63	AV	Horizontal
10360.37	55.96	-2.92	53.04	68.20	-15.16	PK	Vertical
10360.37	45.16	-2.92	42.24	54.00	-11.76	AV	Vertical
10360.05	55.09	-2.92	52.17	68.20	-16.03	PK	Horizontal
10360.05	44.52	-2.92	41.60	54.00	-12.40	AV	Horizontal
13296.15	54.48	-0.67	53.81	74.00	-20.19	PK	Vertical
13296.15	44.08	-0.67	43.41	54.00	-10.59	AV	Vertical
13291.01	54.22	-0.67	53.55	74.00	-20.45	PK	Horizontal
13291.01	43.81	-0.67	43.14	54.00	-10.86	AV	Horizontal
Mid Channel (802.11/ 5200 MHz)							
3986.79	53.18	-6.89	46.29	74.00	-27.71	PK	Vertical
3986.79	42.54	-6.89	35.65	54.00	-18.35	AV	Vertical
3981.98	52.02	-6.89	45.13	74.00	-28.87	PK	Horizontal
3981.98	43.22	-6.89	36.33	54.00	-17.67	AV	Horizontal
7218.72	53.13	-3.80	49.33	68.20	-18.87	PK	Vertical
7218.72	43.22	-3.80	39.42	54.00	-14.58	AV	Vertical
7217.79	54.35	-3.80	50.55	68.20	-17.65	PK	Horizontal
7217.79	43.12	-3.80	39.32	54.00	-14.68	AV	Horizontal
10400.14	55.59	-2.92	52.67	68.20	-15.53	PK	Vertical
10400.14	44.48	-2.92	41.56	54.00	-12.44	AV	Vertical
10400.12	56.41	-2.92	53.49	68.20	-14.71	PK	Horizontal
10400.12	44.15	-2.92	41.23	54.00	-12.77	AV	Horizontal
13293.30	54.07	-0.67	53.40	74.00	-20.60	PK	Vertical
13293.30	44.06	-0.67	43.39	54.00	-10.61	AV	Vertical
13293.16	54.25	-0.67	53.58	74.00	-20.42	PK	Horizontal
13293.16	43.88	-0.67	43.21	54.00	-10.79	AV	Horizontal
High Channel (802.11/ 5240 MHz)							
3993.78	53.38	-6.89	46.49	74.00	-27.51	PK	Vertical
3993.78	42.89	-6.89	36.00	54.00	-18.00	AV	Vertical
3998.98	52.43	-6.89	45.54	74.00	-28.46	PK	Horizontal
3998.98	43.07	-6.89	36.18	54.00	-17.82	AV	Horizontal
7219.76	53.01	-3.80	49.21	68.20	-18.99	PK	Vertical
7219.76	44.14	-3.80	40.34	54.00	-13.66	AV	Vertical
7229.82	53.20	-3.80	49.40	68.20	-18.80	PK	Horizontal
7229.82	44.30	-3.80	40.50	54.00	-13.50	AV	Horizontal
10480.30	55.68	-2.92	52.76	68.20	-15.44	PK	Vertical
10480.30	45.04	-2.92	42.12	54.00	-11.88	AV	Vertical
10480.20	55.75	-2.92	52.83	68.20	-15.37	PK	Horizontal
10480.20	44.59	-2.92	41.67	54.00	-12.33	AV	Horizontal
13288.88	54.60	-0.67	53.93	74.00	-20.07	PK	Vertical
13288.88	43.65	-0.67	42.98	54.00	-11.02	AV	Vertical
13289.93	53.88	-0.67	53.21	74.00	-20.79	PK	Horizontal
13289.93	45.00	-0.67	44.33	54.00	-9.67	AV	Horizontal



Band II(5.25-5.35) GHz							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
Low Channel (802.11/ 5260 MHz)							
3981.61	52.58	-6.89	45.69	74.00	-28.31	PK	Vertical
3981.61	42.55	-6.89	35.66	54.00	-18.34	AV	Vertical
3998.95	52.55	-6.89	45.66	74.00	-28.34	PK	Horizontal
3998.95	43.12	-6.89	36.23	54.00	-17.77	AV	Horizontal
8921.75	53.56	-3.80	49.76	68.20	-18.44	PK	Vertical
8921.75	43.46	-3.80	39.66	54.00	-14.34	AV	Vertical
8922.12	53.40	-3.80	49.60	68.20	-18.60	PK	Horizontal
8922.12	43.35	-3.80	39.55	54.00	-14.45	AV	Horizontal
10520.01	56.17	-2.92	53.25	68.20	-14.95	PK	Vertical
10520.01	44.29	-2.92	41.37	54.00	-12.63	AV	Vertical
10520.06	56.35	-2.92	53.43	68.20	-14.77	PK	Horizontal
10520.06	44.61	-2.92	41.69	54.00	-12.31	AV	Horizontal
13292.69	54.45	-0.67	53.78	74.00	-20.22	PK	Vertical
13292.69	43.83	-0.67	43.16	54.00	-10.84	AV	Vertical
13287.90	54.19	-0.67	53.52	74.00	-20.48	PK	Horizontal
13287.90	44.84	-0.67	44.17	54.00	-9.83	AV	Horizontal
Mid Channel (802.11/ 5300 MHz)							
3995.60	53.43	-6.89	46.54	74.00	-27.46	PK	Vertical
3995.60	43.24	-6.89	36.35	54.00	-17.65	AV	Vertical
3982.93	52.22	-6.89	45.33	74.00	-28.67	PK	Horizontal
3982.93	42.24	-6.89	35.35	54.00	-18.65	AV	Horizontal
8924.23	54.16	-3.80	50.36	68.20	-17.84	PK	Vertical
8924.23	43.85	-3.80	40.05	54.00	-13.95	AV	Vertical
8907.23	54.11	-3.80	50.31	68.20	-17.89	PK	Horizontal
8907.23	44.16	-3.80	40.36	54.00	-13.64	AV	Horizontal
10600.08	55.04	-2.92	52.12	74.00	-21.88	PK	Vertical
10600.08	44.60	-2.92	41.68	54.00	-12.32	AV	Vertical
10600.14	55.01	-2.92	52.09	74.00	-21.91	PK	Horizontal
10600.14	44.67	-2.92	41.75	54.00	-12.25	AV	Horizontal
13288.30	53.53	-0.67	52.86	74.00	-21.14	PK	Vertical
13288.30	43.73	-0.67	43.06	54.00	-10.94	AV	Vertical
13288.37	54.09	-0.67	53.42	74.00	-20.58	PK	Horizontal
13288.37	44.31	-0.67	43.64	54.00	-10.36	AV	Horizontal
High Channel (802.11/ 5320 MHz)							
3995.98	52.93	-6.89	46.04	74.00	-27.96	PK	Vertical
3995.98	43.33	-6.89	36.44	54.00	-17.56	AV	Vertical
3993.21	52.69	-6.89	45.80	74.00	-28.20	PK	Horizontal
3993.21	43.47	-6.89	36.58	54.00	-17.42	AV	Horizontal
8920.16	53.41	-3.80	49.61	68.20	-18.59	PK	Vertical
8920.16	43.28	-3.80	39.48	54.00	-14.52	AV	Vertical
8907.23	53.44	-3.80	49.64	68.20	-18.56	PK	Horizontal
8907.23	43.95	-3.80	40.15	54.00	-13.85	AV	Horizontal
10640.35	55.75	-2.92	52.83	74.00	-21.17	PK	Vertical
10640.35	44.36	-2.92	41.44	54.00	-12.56	AV	Vertical
10640.18	55.61	-2.92	52.69	74.00	-21.31	PK	Horizontal
10640.18	45.21	-2.92	42.29	54.00	-11.71	AV	Horizontal
13293.45	54.52	-0.67	53.85	74.00	-20.15	PK	Vertical
13293.45	43.83	-0.67	43.16	54.00	-10.84	AV	Vertical
13281.78	54.31	-0.67	53.64	74.00	-20.36	PK	Horizontal
13281.78	44.18	-0.67	43.51	54.00	-10.49	AV	Horizontal



Band III(5.47-5.725) GHz							
Frequency (MHz)	Reading (dBμV)	Orrected Factor (dB)	Reslut (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
Low Channel (802.11/ 5500 MHz)							
3994.98	53.41	-6.89	46.52	74.00	-27.48	PK	Vertical
3994.98	42.77	-6.89	35.88	54.00	-18.12	AV	Vertical
3985.07	53.12	-6.89	46.23	74.00	-27.77	PK	Horizontal
3985.07	42.56	-6.89	35.67	54.00	-18.33	AV	Horizontal
8909.29	53.05	-3.80	49.25	68.20	-18.95	PK	Vertical
8909.29	43.56	-3.80	39.76	54.00	-14.24	AV	Vertical
8906.62	53.28	-3.80	49.48	68.20	-18.72	PK	Horizontal
8906.62	43.73	-3.80	39.93	54.00	-14.07	AV	Horizontal
10998.29	55.17	-2.92	52.25	74.00	-21.75	PK	Vertical
10998.29	44.68	-2.92	41.76	54.00	-12.24	AV	Vertical
10992.69	55.97	-2.92	53.05	74.00	-20.95	PK	Horizontal
10992.69	44.61	-2.92	41.69	54.00	-12.31	AV	Horizontal
13296.16	53.67	-0.35	53.32	74.00	-20.68	PK	Vertical
13296.16	43.98	-0.35	43.63	54.00	-10.37	AV	Vertical
13281.00	54.51	-0.35	54.16	74.00	-19.84	PK	Horizontal
13281.00	44.34	-0.35	43.99	54.00	-10.01	AV	Horizontal
Mid Channel (802.11/ 5580 MHz)							
3983.36	52.32	-6.89	45.43	74.00	-28.57	PK	Vertical
3983.36	42.93	-6.89	36.04	54.00	-17.96	AV	Vertical
3991.60	52.90	-6.89	46.01	74.00	-27.99	PK	Horizontal
3991.60	43.15	-6.89	36.26	54.00	-17.74	AV	Horizontal
8908.05	53.03	-3.80	49.23	68.20	-18.97	PK	Vertical
8908.05	43.11	-3.80	39.31	54.00	-14.69	AV	Vertical
8916.89	53.71	-3.80	49.91	68.20	-18.29	PK	Horizontal
8916.89	44.16	-3.80	40.36	54.00	-13.64	AV	Horizontal
11146.01	56.17	-2.92	53.25	74.00	-20.75	PK	Vertical
11146.01	44.35	-2.92	41.43	54.00	-12.57	AV	Vertical
11152.40	55.56	-2.92	52.64	74.00	-21.36	PK	Horizontal
11152.40	44.38	-2.92	41.46	54.00	-12.54	AV	Horizontal
13292.53	53.96	-0.35	53.61	74.00	-20.39	PK	Vertical
13292.53	44.54	-0.35	44.19	54.00	-9.81	AV	Vertical
13296.64	53.79	-0.35	53.44	74.00	-20.56	PK	Horizontal
13296.64	43.57	-0.35	43.22	54.00	-10.78	AV	Horizontal
High Channel (802.11/ 5700 MHz)							
3997.26	52.15	-6.89	45.26	74.00	-28.74	PK	Vertical
3997.26	43.35	-6.89	36.46	54.00	-17.54	AV	Vertical
3999.99	52.19	-6.89	45.30	74.00	-28.70	PK	Horizontal
3999.99	42.47	-6.89	35.58	54.00	-18.42	AV	Horizontal
8911.39	53.55	-3.80	49.75	68.20	-18.45	PK	Vertical
8911.39	43.11	-3.80	39.31	54.00	-14.69	AV	Vertical
8922.60	53.54	-3.80	49.74	68.20	-18.46	PK	Horizontal
8922.60	43.51	-3.80	39.71	54.00	-14.29	AV	Horizontal
11397.19	56.22	-2.92	53.30	74.00	-20.70	PK	Vertical
11397.19	45.42	-2.92	42.50	54.00	-11.50	AV	Vertical
11390.21	55.95	-2.92	53.03	74.00	-20.97	PK	Horizontal
11390.21	44.23	-2.92	41.31	54.00	-12.69	AV	Horizontal
13281.56	53.53	-0.35	53.18	74.00	-20.82	PK	Vertical
13281.56	44.86	-0.35	44.51	54.00	-9.49	AV	Vertical
13291.98	54.66	-0.35	54.31	74.00	-19.69	PK	Horizontal
13291.98	43.64	-0.35	43.29	54.00	-10.71	AV	Horizontal

Remark:

In frequency ranges 18~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.



3.2.7 TEST RESULTS(Band edge Requirements)

Band I & Band II (5.15-5.35) GHz							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
802.11n BW20MHz							
5150	56.09	-7.51	48.58	74	-25.42	PK	Vertical
5150	44.74	-7.51	37.23	54	-16.77	AV	Vertical
5150	55.62	-7.51	48.11	74	-25.89	PK	Horizontal
5150	44.72	-7.51	37.21	54	-16.79	AV	Horizontal
5350	54.11	-8.19	45.92	74	-28.08	PK	Vertical
5350	44.45	-8.19	36.26	54	-17.74	AV	Vertical
5350	55.10	-8.19	46.91	74	-27.09	PK	Horizontal
5350	44.99	-8.19	36.80	54	-17.20	AV	Horizontal
802.11n BW40MHz							
5150	55.92	-7.51	48.41	74	-25.59	Peak	Vertical
5150	45.45	-7.51	37.94	54	-16.06	AVG	Vertical
5150	55.43	-7.51	47.92	74	-26.08	Peak	Horizontal
5150	44.58	-7.51	37.07	54	-16.93	AVG	Horizontal
5350	55.04	-8.19	46.85	74	-27.15	Peak	Vertical
5350	44.63	-8.19	36.44	54	-17.56	AVG	Vertical
5350	54.20	-8.19	46.01	74	-27.99	Peak	Horizontal
5350	44.01	-8.19	35.82	54	-18.18	AVG	Horizontal
802.11ac BW80MHz							
5150	55.19	-7.51	47.68	74	-26.32	Peak	Vertical
5150	44.39	-7.51	36.88	54	-17.12	AVG	Vertical
5150	55.45	-7.51	47.94	74	-26.06	Peak	Horizontal
5150	45.11	-7.51	37.60	54	-16.40	AVG	Horizontal
5350	55.13	-8.19	46.94	74	-27.06	Peak	Vertical
5350	43.58	-8.19	35.39	54	-18.61	AVG	Vertical
5350	54.54	-8.19	46.35	74	-27.65	Peak	Horizontal
5350	44.02	-8.19	35.83	54	-18.17	AVG	Horizontal



Band IV(5.47-5.725 GHz)							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
802.11n BW20MHz							
5460	53.53	-8.27	45.26	74	-28.74	PK	Vertical
5460	43.93	-8.27	35.66	54	-18.34	AV	Vertical
5460	53.50	-8.27	45.23	74	-28.77	PK	Horizontal
5460	42.83	-8.27	34.56	54	-19.44	AV	Horizontal
7250	54.88	-6.33	48.55	74	-25.45	PK	Vertical
7250	44.84	-6.33	38.51	54	-15.49	AV	Vertical
7250	55.41	-6.33	49.08	74	-24.92	PK	Horizontal
7250	43.66	-6.33	37.33	54	-16.67	AV	Horizontal
802.11n BW40MHz							
5460	53.31	-8.27	45.04	74	-28.96	PK	Vertical
5460	43.75	-8.27	35.48	54	-18.52	AV	Vertical
5460	53.99	-8.27	45.72	74	-28.28	PK	Horizontal
5460	42.79	-8.27	34.52	54	-19.48	AV	Horizontal
7250	55.45	-6.33	49.12	74	-24.88	PK	Vertical
7250	44.90	-6.33	38.57	54	-15.43	AV	Vertical
7250	54.70	-6.33	48.37	74	-25.63	PK	Horizontal
7250	43.58	-6.33	37.25	54	-16.75	AV	Horizontal
802.11ac BW80MHz							
5460	53.45	-8.27	45.18	74	-28.82	PK	Vertical
5460	43.52	-8.27	35.25	54	-18.75	AV	Vertical
5460	54.22	-8.27	45.95	74	-28.05	PK	Horizontal
5460	43.32	-8.27	35.05	54	-18.95	AV	Horizontal
7250	54.09	-6.33	47.76	74	-26.24	PK	Vertical
7250	44.64	-6.33	38.31	54	-15.69	AV	Vertical
7250	54.81	-6.33	48.48	74	-25.52	PK	Horizontal
7250	43.75	-6.33	37.42	54	-16.58	AV	Horizontal



4. POWER SPECTRAL DENSITY TEST

4.1 LIMIT

1. For mobile and portable client devices in the 5.15-5.25 GHz band, , the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2 TEST PROCEDURE

1. The setting follows Method SA-1 of FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

For devices operating in the band, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (*i.e.*, 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log (500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log (1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

For the measurement records, refer to the appendix I.



5. BANDWIDTH MEASUREMENT

5.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT

The following procedure shall be used for measuring 26 bandwidth.

5.1.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW $\geq$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

For the measurement records, refer to the appendix I.



5.2 OCCUPIED BANDWIDTH (99%) TEST APPLIED PROCEDURES / LIMIT

The following procedure shall be used for measuring (99 %) power bandwidth.

5.2.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

5.2.2 DEVIATION FROM STANDARD

No deviation.

5.2.3 TEST SETUP



5.2.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.2.5 TEST RESULTS

For the measurement records, refer to the appendix I.



5.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth.

5.3.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.
 - a) Set RBW = 100 kHz.
 - b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple.
 - f) Allow the trace to stabilize.
 - g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3.2 DEVIATION FROM STANDARD

No deviation.

5.3.3 TEST SETUP



5.3.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.3.5 TEST RESULTS

For the measurement records, refer to the appendix I.



6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 LIMIT

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz, If transmitting antennas of directional gain greater than 6 dBi are used.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used.

FCC Part15 (15.407) , Subpart E				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.407(a) (1) (iv)	Output Power	0.25 watt	5150-5250	PASS
		The lesser of 250 mW or $11 \text{ dBm} + 10 \log (26 \text{ dB emission bandwidth})$	5250-5350 5470-5725	
15.407(a) (3)		1 watt	5725-5825	

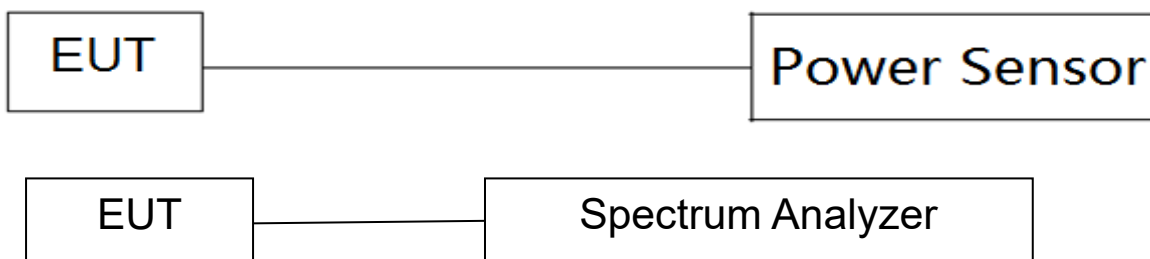
6.2 TEST PROCEDURE

The EUT was directly connected to the Power Sensor&PC

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

For the measurement records, refer to the appendix I.



7. AUTOMATICALLY DISCONTINUE TRANSMISSION

7.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

7.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

Part 15.203 requirement: For intentional device, according to 15.203: 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.

8.2 EUT ANTENNA

The EUT antenna is FPC Antenna. It comply with the standard requirement.



APPENDIX I - TEST RESULTS

Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	92.89	0.32	0.19
NVNT	a	5200	92.89	0.32	0.19
NVNT	a	5240	92.89	0.32	0.19
NVNT	a	5260	92.89	0.32	0.19
NVNT	a	5300	92.89	0.32	0.19
NVNT	a	5320	92.73	0.33	0.19
NVNT	a	5500	92.89	0.32	0.19
NVNT	a	5580	92.89	0.32	0.19
NVNT	a	5700	92.89	0.32	0.19
NVNT	n20	5180	92.38	0.34	0.2
NVNT	n20	5200	92.19	0.35	0.2
NVNT	n20	5240	92.38	0.34	0.2
NVNT	n20	5260	92.38	0.34	0.2
NVNT	n20	5300	92.38	0.34	0.2
NVNT	n20	5320	92.19	0.35	0.2
NVNT	n20	5500	92.19	0.35	0.2
NVNT	n20	5580	92.38	0.34	0.2
NVNT	n20	5700	92.36	0.35	0.2
NVNT	n40	5190	85.31	0.69	0.41
NVNT	n40	5230	85.31	0.69	0.41
NVNT	n40	5270	85.28	0.69	0.42
NVNT	n40	5310	85.28	0.69	0.42
NVNT	n40	5510	85.46	0.68	0.41
NVNT	n40	5550	85.46	0.68	0.41
NVNT	n40	5670	85.31	0.69	0.41
NVNT	ac20	5180	92.38	0.34	0.2
NVNT	ac20	5200	92.21	0.35	0.2
NVNT	ac20	5240	92.38	0.34	0.2
NVNT	ac20	5260	92.38	0.34	0.2
NVNT	ac20	5300	92.21	0.35	0.2
NVNT	ac20	5320	92.21	0.35	0.2
NVNT	ac20	5500	92.39	0.34	0.2
NVNT	ac20	5580	92.21	0.35	0.2
NVNT	ac20	5700	92.22	0.35	0.2
NVNT	ac40	5190	85.51	0.68	0.41
NVNT	ac40	5230	85.34	0.69	0.41
NVNT	ac40	5270	85.51	0.68	0.41
NVNT	ac40	5310	85.51	0.68	0.41
NVNT	ac40	5510	85.34	0.69	0.41
NVNT	ac40	5550	85.34	0.69	0.41
NVNT	ac40	5670	85.34	0.69	0.41
NVNT	ac80	5210	68.09	1.67	3.47
NVNT	ac80	5290	68.32	1.65	3.46
NVNT	ac80	5530	66.67	1.76	3.47
NVNT	ac80	5610	66.67	1.76	3.47

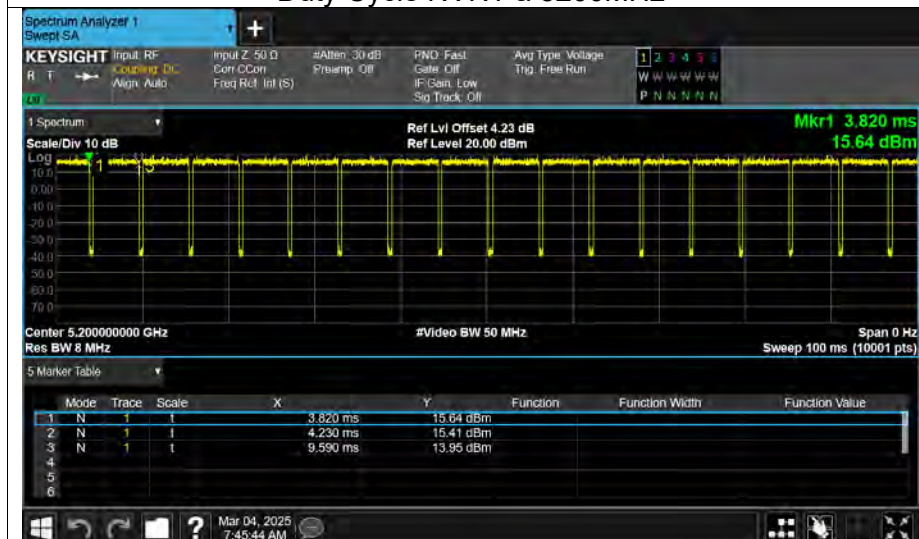


Test Graphs

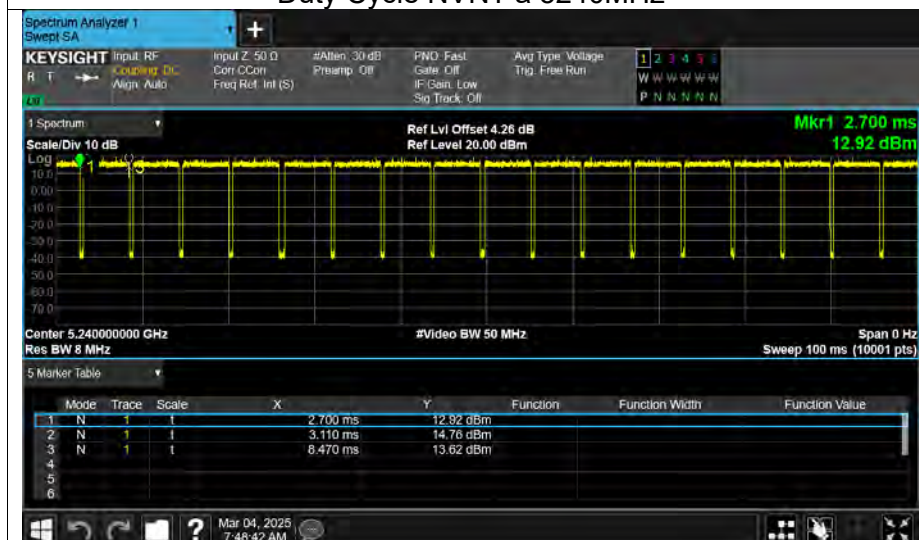
Duty Cycle NVNT a 5180MHz

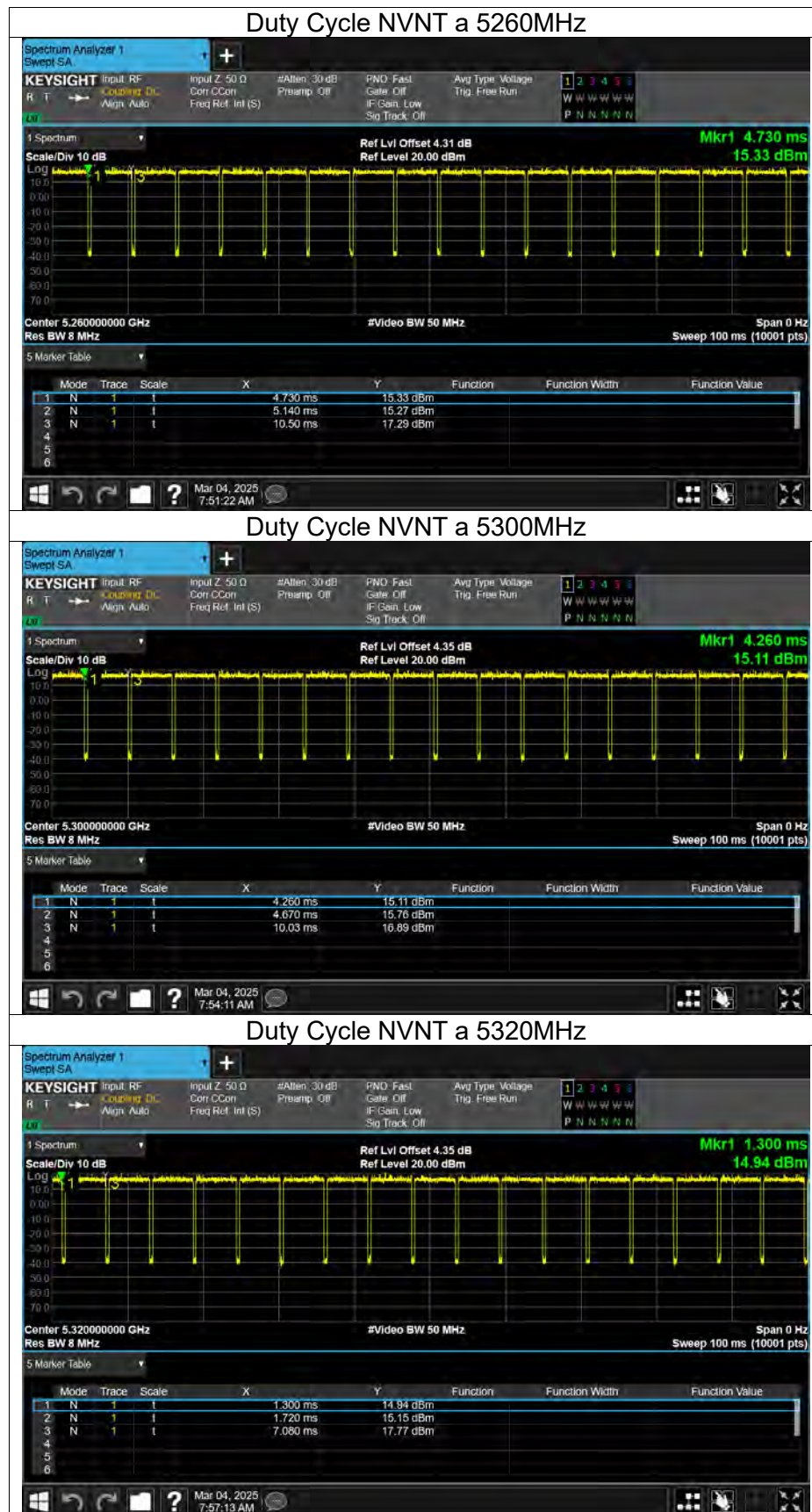


Duty Cycle NVNT a 5200MHz



Duty Cycle NVNT a 5240MHz







Duty Cycle NVNT a 5500MHz



Duty Cycle NVNT a 5580MHz



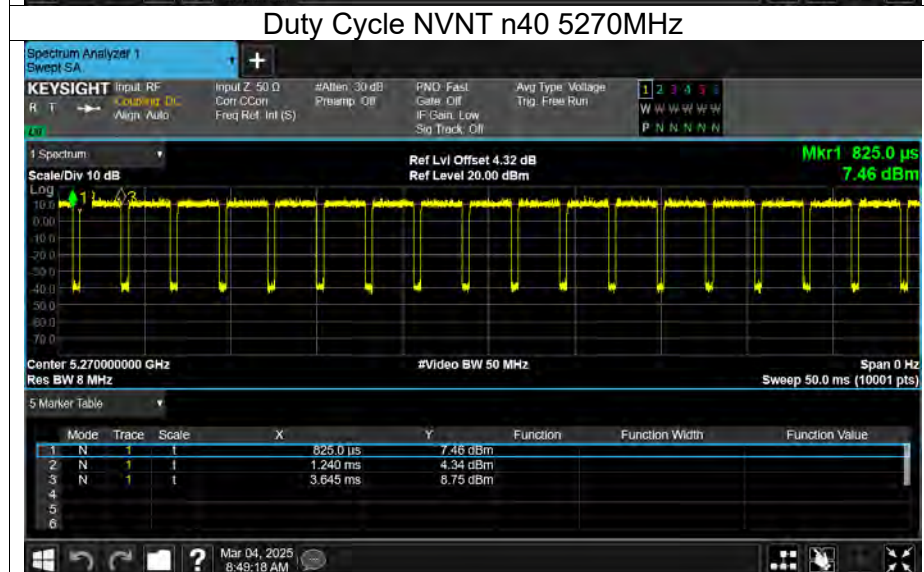
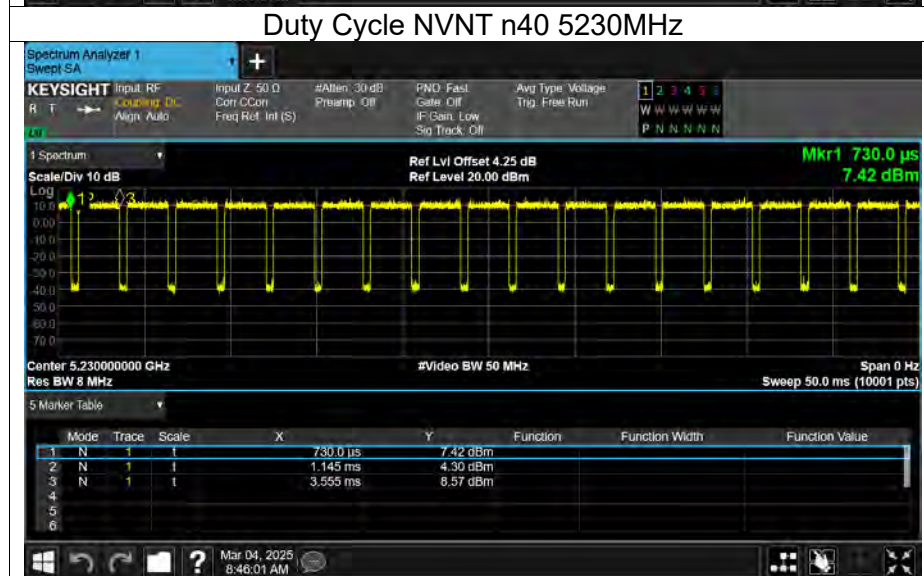
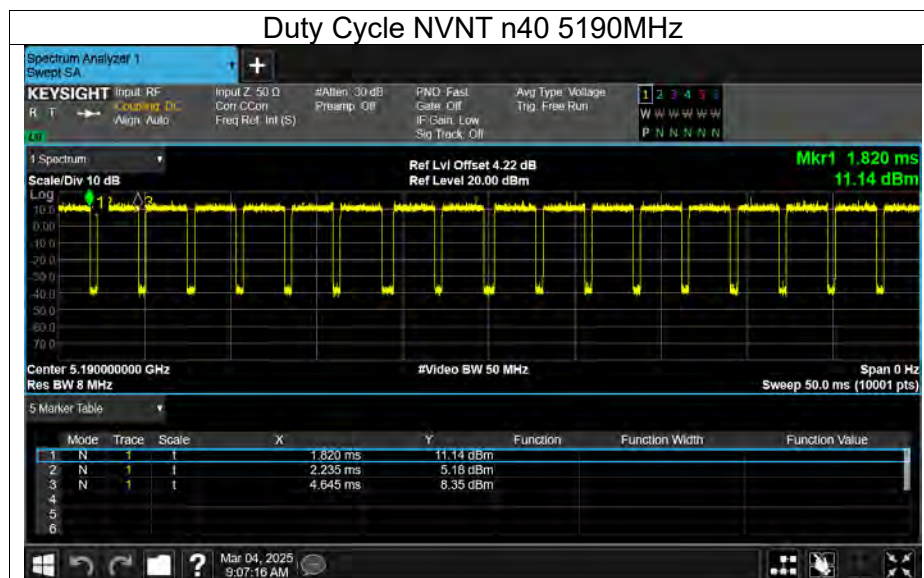
Duty Cycle NVNT a 5700MHz





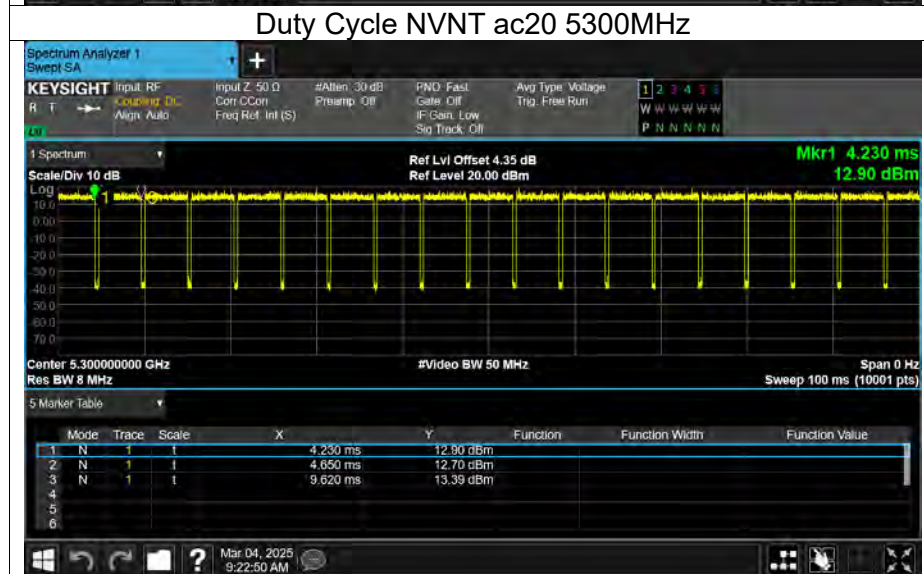
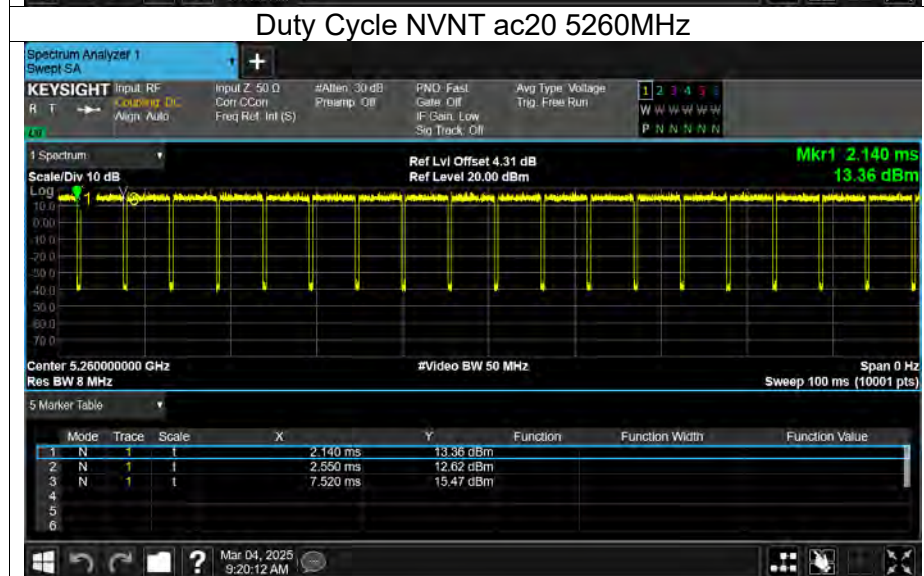
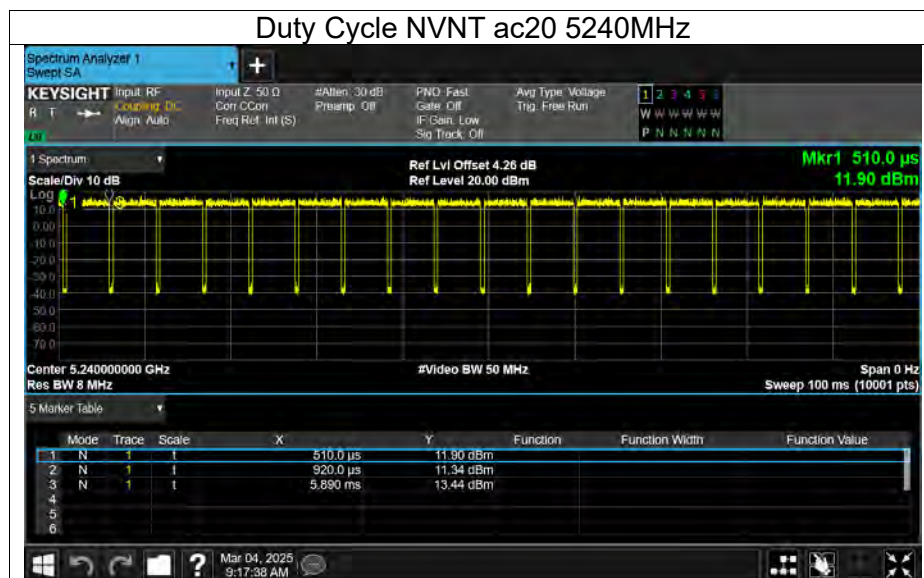






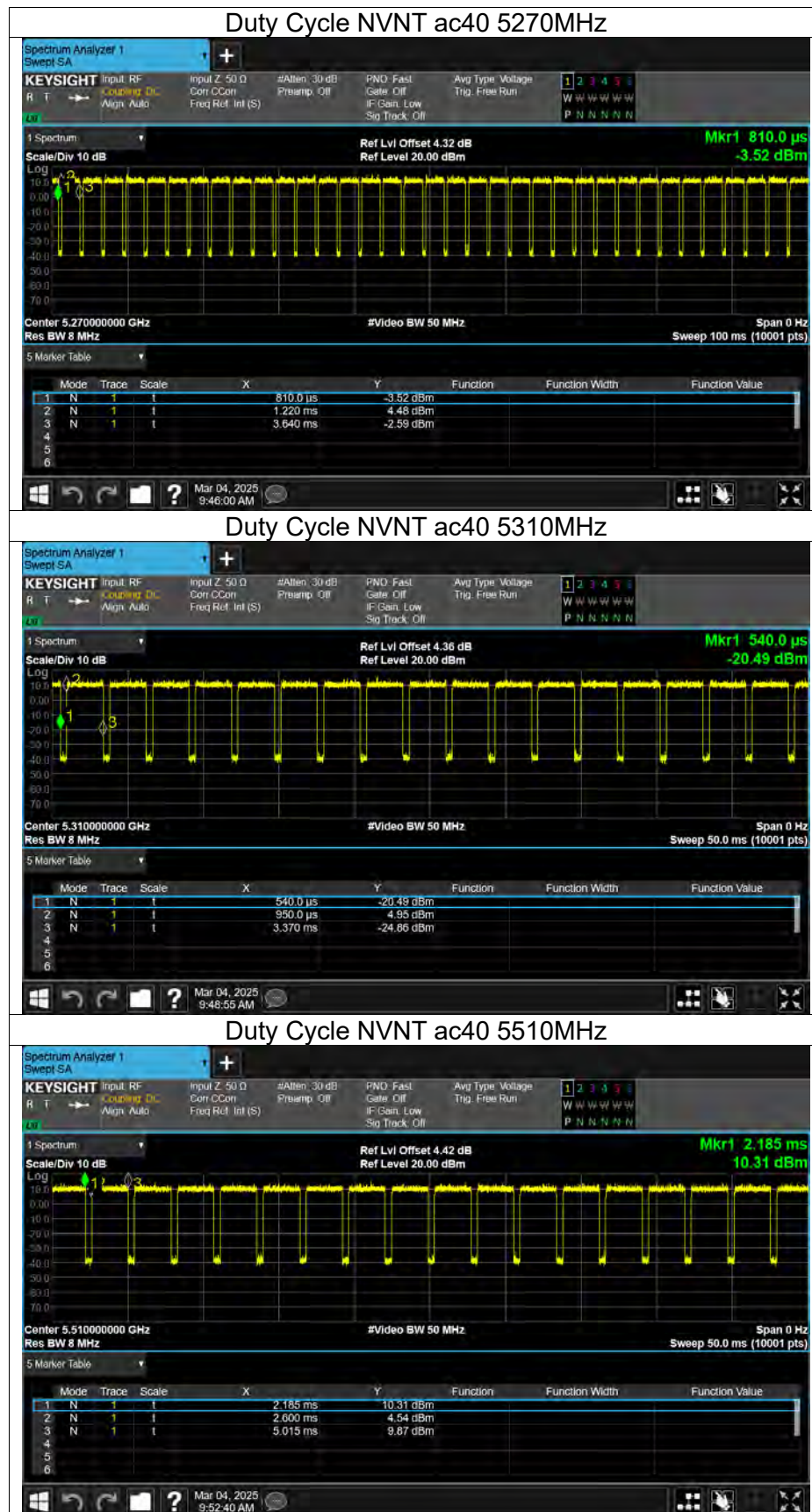




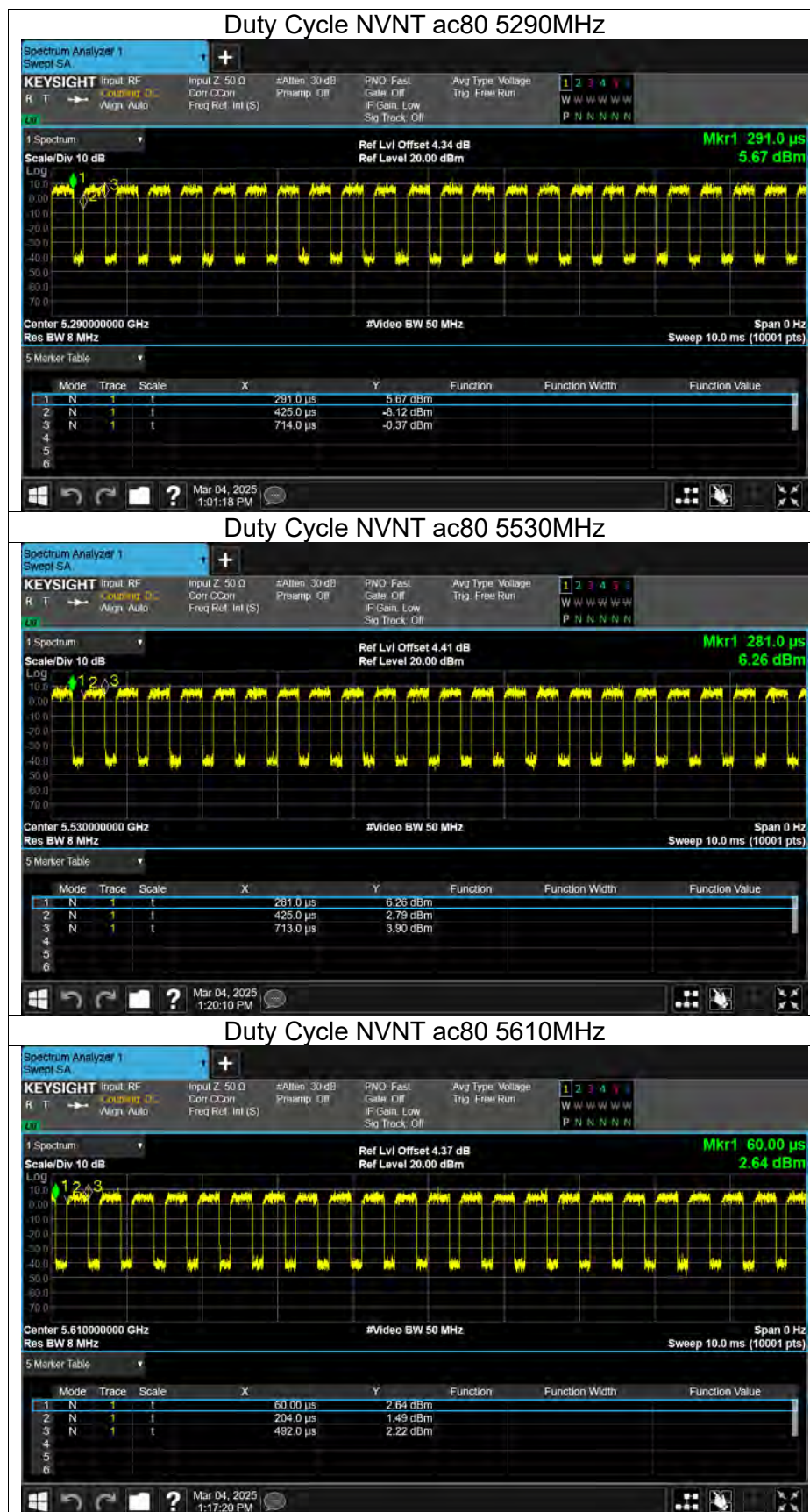














Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	13.39	0.32	13.71	24	Pass
NVNT	a	5200	12.78	0.32	13.1	24	Pass
NVNT	a	5240	12.17	0.32	12.49	24	Pass
NVNT	a	5260	13.26	0.32	13.58	24	Pass
NVNT	a	5300	12.9	0.32	13.22	24	Pass
NVNT	a	5320	12.68	0.33	13.01	24	Pass
NVNT	a	5500	12.81	0.32	13.13	24	Pass
NVNT	a	5580	11.74	0.32	12.06	24	Pass
NVNT	a	5700	10.81	0.32	11.13	24	Pass
NVNT	n20	5180	11.57	0.34	11.91	24	Pass
NVNT	n20	5200	10.96	0.35	11.31	24	Pass
NVNT	n20	5240	10.19	0.34	10.53	24	Pass
NVNT	n20	5260	11.3	0.34	11.64	24	Pass
NVNT	n20	5300	11.29	0.34	11.63	24	Pass
NVNT	n20	5320	11.18	0.35	11.53	24	Pass
NVNT	n20	5500	10.98	0.35	11.33	24	Pass
NVNT	n20	5580	9.5	0.34	9.84	24	Pass
NVNT	n20	5700	8.88	0.35	9.23	24	Pass
NVNT	n40	5190	10.99	0.71	11.7	24	Pass
NVNT	n40	5230	10.23	0.69	10.92	24	Pass
NVNT	n40	5270	10.11	0.69	10.8	24	Pass
NVNT	n40	5310	10.25	0.69	10.94	24	Pass
NVNT	n40	5510	9.28	0.68	9.96	24	Pass
NVNT	n40	5550	9.23	0.68	9.91	24	Pass
NVNT	n40	5670	8.71	0.69	9.4	24	Pass
NVNT	ac20	5180	11.19	0.35	11.54	24	Pass
NVNT	ac20	5200	10.49	0.35	10.84	24	Pass
NVNT	ac20	5240	9.99	0.34	10.33	24	Pass
NVNT	ac20	5260	10.43	0.34	10.77	24	Pass
NVNT	ac20	5300	10.52	0.35	10.87	24	Pass
NVNT	ac20	5320	10.36	0.35	10.71	24	Pass
NVNT	ac20	5500	9.79	0.34	10.13	24	Pass
NVNT	ac20	5580	8.93	0.35	9.28	24	Pass
NVNT	ac20	5700	7.83	0.35	8.18	24	Pass
NVNT	ac40	5190	11.23	0.68	11.91	24	Pass
NVNT	ac40	5230	10.28	0.69	10.97	24	Pass
NVNT	ac40	5270	10.42	0.68	11.1	24	Pass
NVNT	ac40	5310	10.32	0.68	11	24	Pass
NVNT	ac40	5510	8.99	0.69	9.68	24	Pass
NVNT	ac40	5550	9.08	0.69	9.77	24	Pass
NVNT	ac40	5670	8.5	0.69	9.19	24	Pass
NVNT	ac80	5210	10.09	1.67	11.76	24	Pass
NVNT	ac80	5290	10.05	1.65	11.7	24	Pass
NVNT	ac80	5530	8.62	1.76	10.38	24	Pass
NVNT	ac80	5610	8.24	1.76	10	24	Pass



-26dB Bandwidth

Condition	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	29.911	Pass
NVNT	a	5200	29.937	Pass
NVNT	a	5240	29.923	Pass
NVNT	a	5260	29.866	Pass
NVNT	a	5300	28.914	Pass
NVNT	a	5320	28.826	Pass
NVNT	a	5500	27.711	Pass
NVNT	a	5580	27.186	Pass
NVNT	a	5700	26.627	Pass
NVNT	n20	5180	27.916	Pass
NVNT	n20	5200	29.602	Pass
NVNT	n20	5240	28.711	Pass
NVNT	n20	5260	27.102	Pass
NVNT	n20	5300	29.039	Pass
NVNT	n20	5320	29.274	Pass
NVNT	n20	5500	27.035	Pass
NVNT	n20	5580	29.612	Pass
NVNT	n20	5700	27.126	Pass
NVNT	n40	5190	43.043	Pass
NVNT	n40	5230	45.879	Pass
NVNT	n40	5270	47.423	Pass
NVNT	n40	5310	49.071	Pass
NVNT	n40	5510	44.953	Pass
NVNT	n40	5550	41.34	Pass
NVNT	n40	5670	44.853	Pass
NVNT	ac20	5180	28.305	Pass
NVNT	ac20	5200	29.434	Pass
NVNT	ac20	5240	28.65	Pass
NVNT	ac20	5260	26.914	Pass
NVNT	ac20	5300	27.436	Pass
NVNT	ac20	5320	27.973	Pass
NVNT	ac20	5500	28.745	Pass
NVNT	ac20	5580	26.104	Pass
NVNT	ac20	5700	27.118	Pass
NVNT	ac40	5190	49.066	Pass
NVNT	ac40	5230	53.271	Pass
NVNT	ac40	5270	56.244	Pass
NVNT	ac40	5310	48.221	Pass
NVNT	ac40	5510	45.546	Pass
NVNT	ac40	5550	50.093	Pass
NVNT	ac40	5670	46.487	Pass
NVNT	ac80	5210	80.386	Pass
NVNT	ac80	5290	80.236	Pass
NVNT	ac80	5530	78.677	Pass
NVNT	ac80	5610	83.074	Pass



Test Graphs

-26dB Bandwidth NVNT a 5180MHz



-26dB Bandwidth NVNT a 5200MHz



-26dB Bandwidth NVNT a 5240MHz





-26dB Bandwidth NVNT a 5260MHz

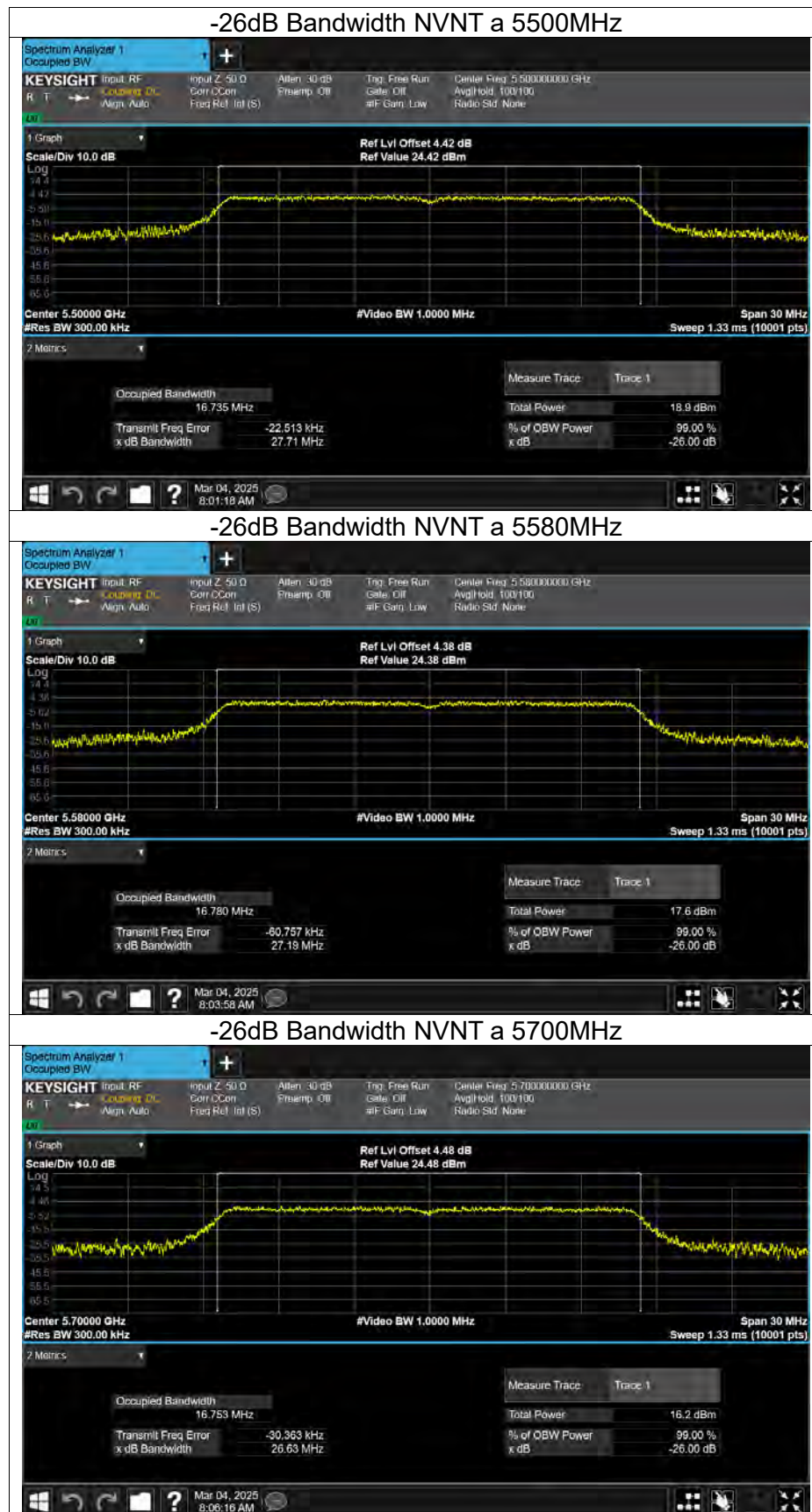


-26dB Bandwidth NVNT a 5300MHz



-26dB Bandwidth NVNT a 5320MHz







-26dB Bandwidth NVNT n20 5180MHz



-26dB Bandwidth NVNT n20 5200MHz



-26dB Bandwidth NVNT n20 5240MHz





-26dB Bandwidth NVNT n20 5260MHz



-26dB Bandwidth NVNT n20 5300MHz



-26dB Bandwidth NVNT n20 5320MHz





-26dB Bandwidth NVNT n20 5500MHz



-26dB Bandwidth NVNT n20 5580MHz



-26dB Bandwidth NVNT n20 5700MHz





-26dB Bandwidth NVNT n40 5190MHz

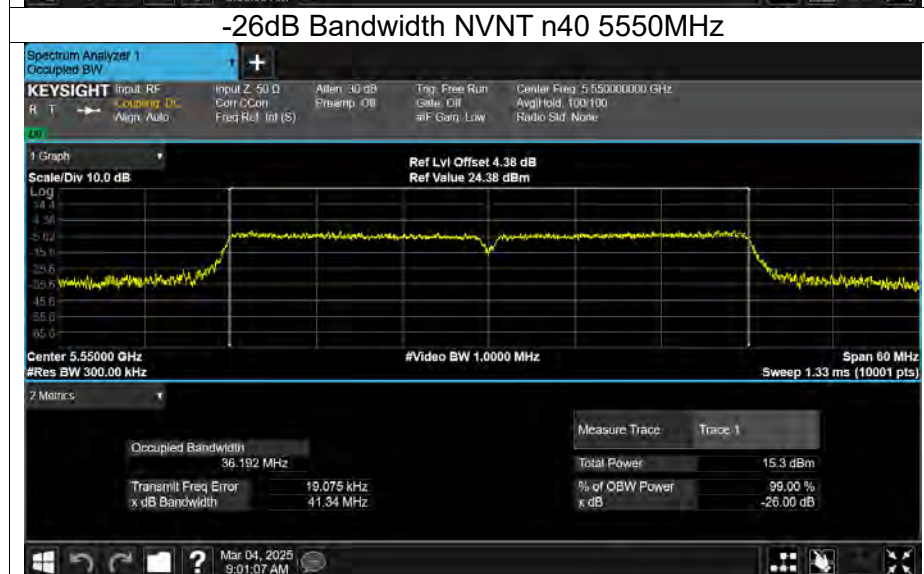
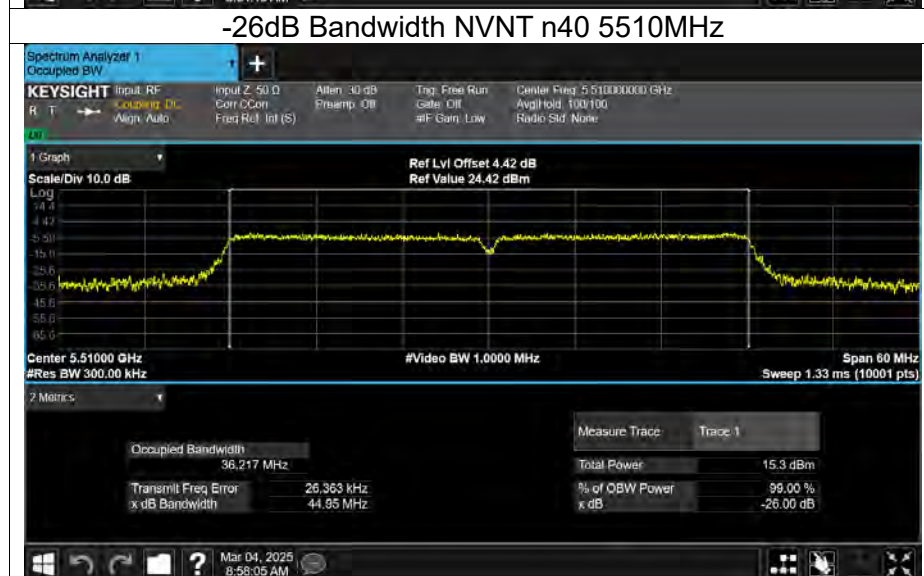
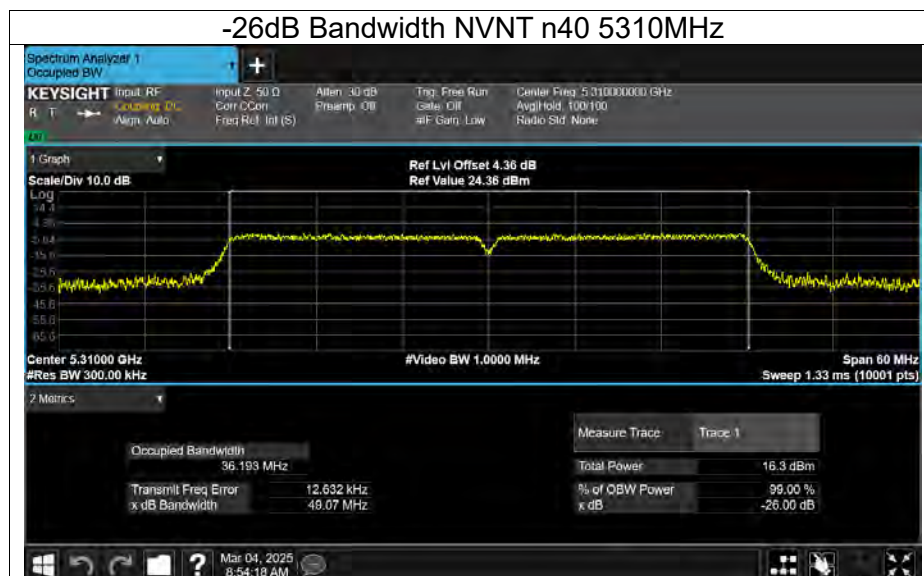


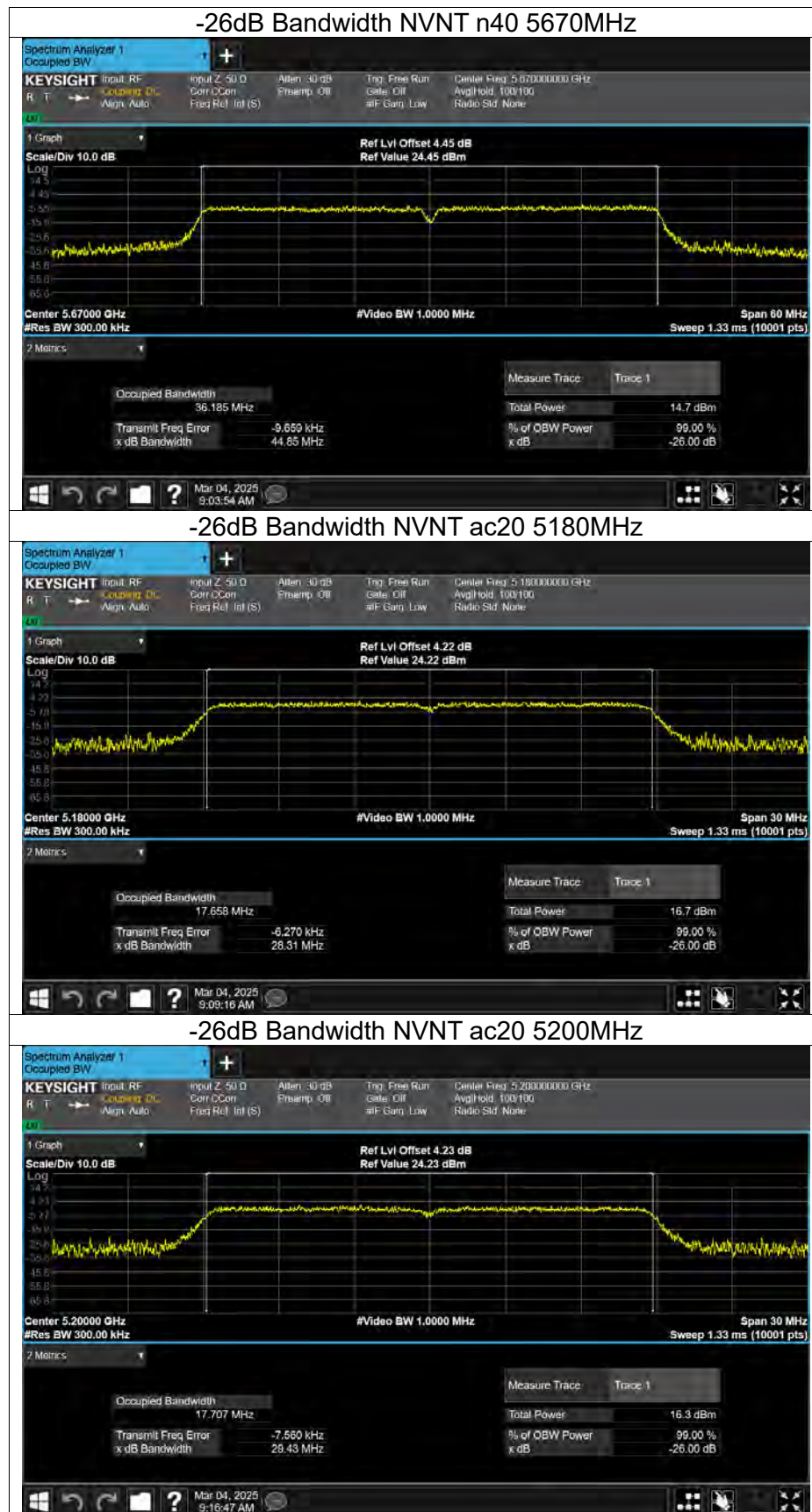
-26dB Bandwidth NVNT n40 5230MHz

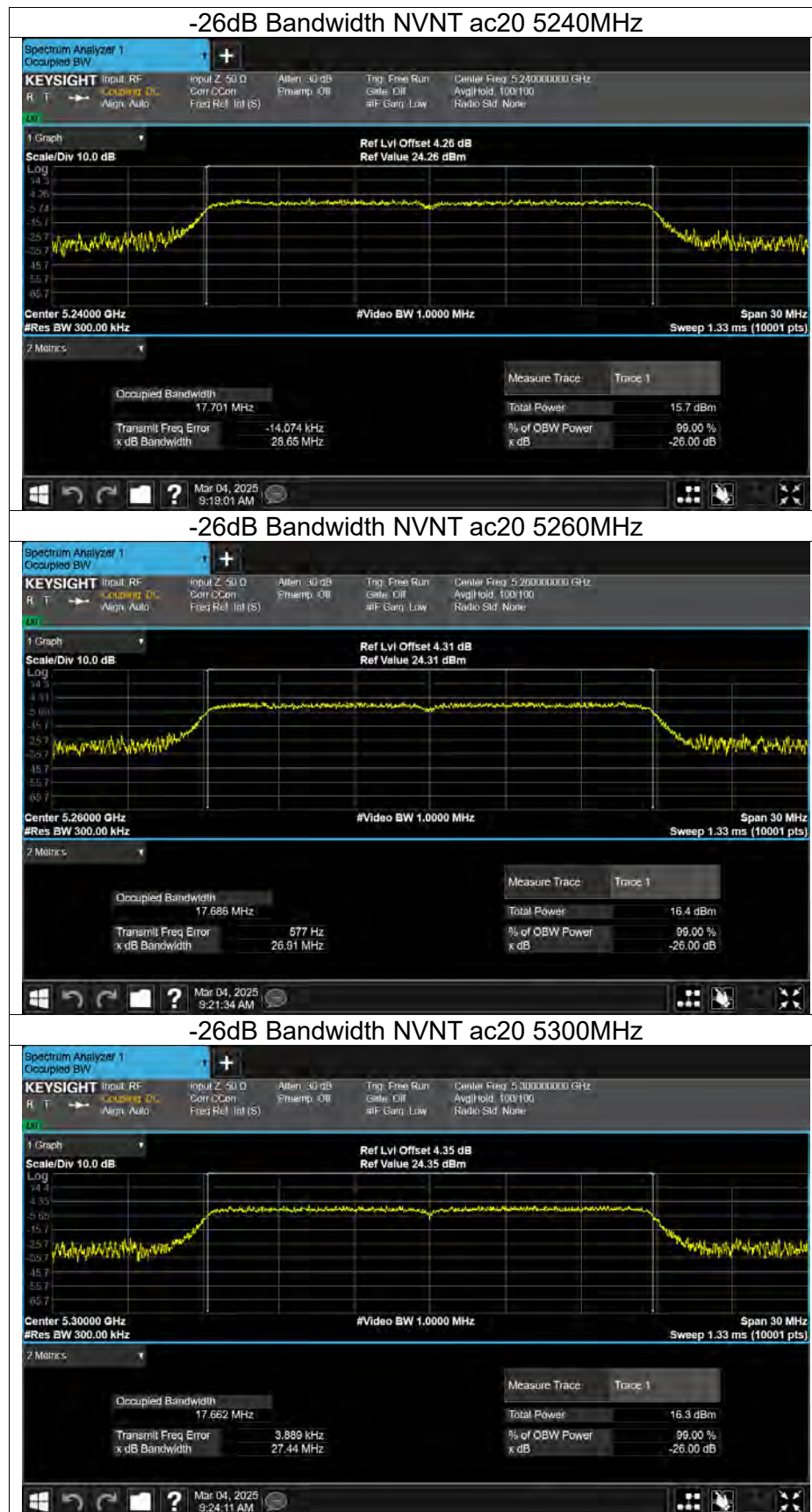


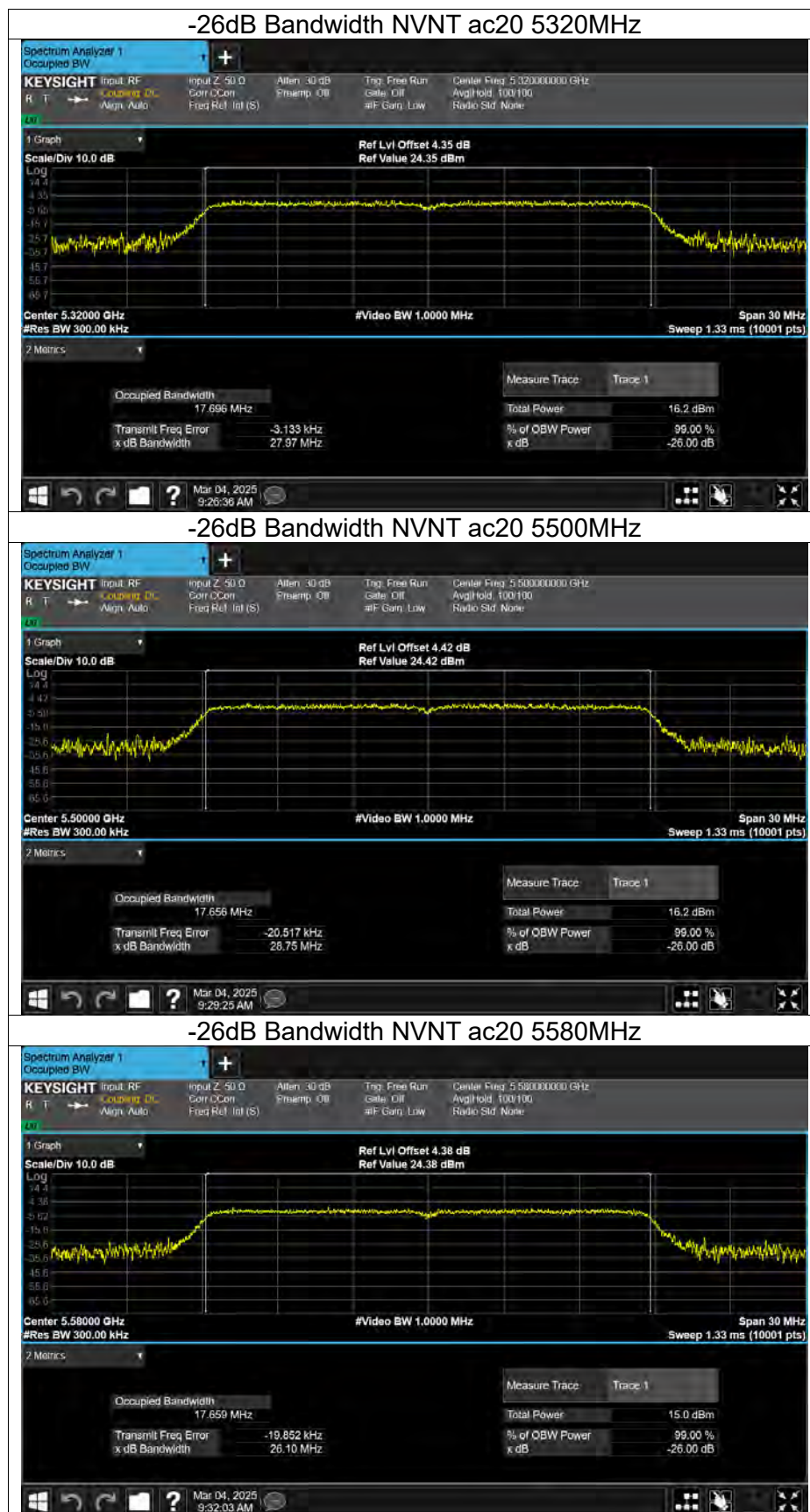
-26dB Bandwidth NVNT n40 5270MHz

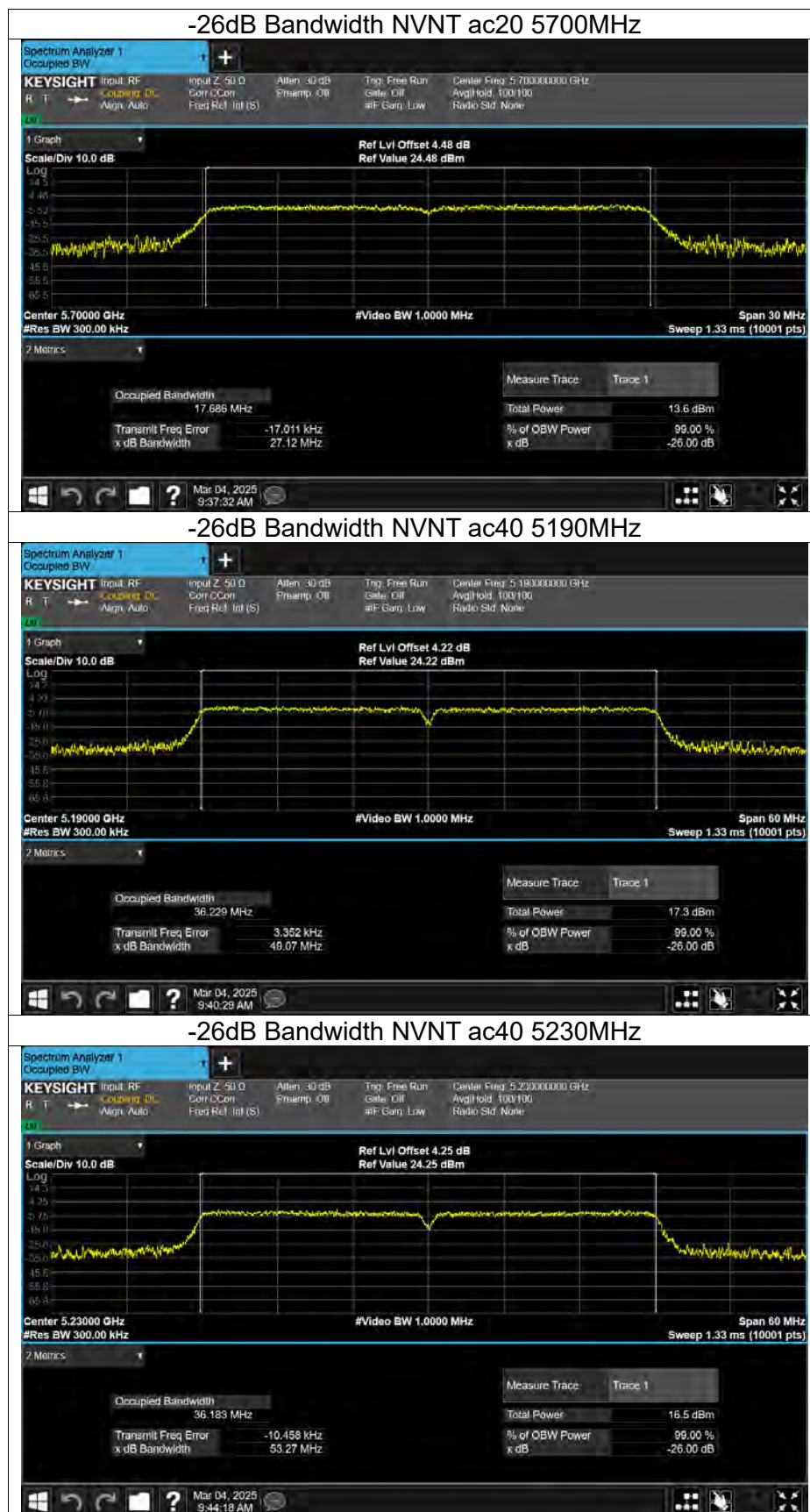


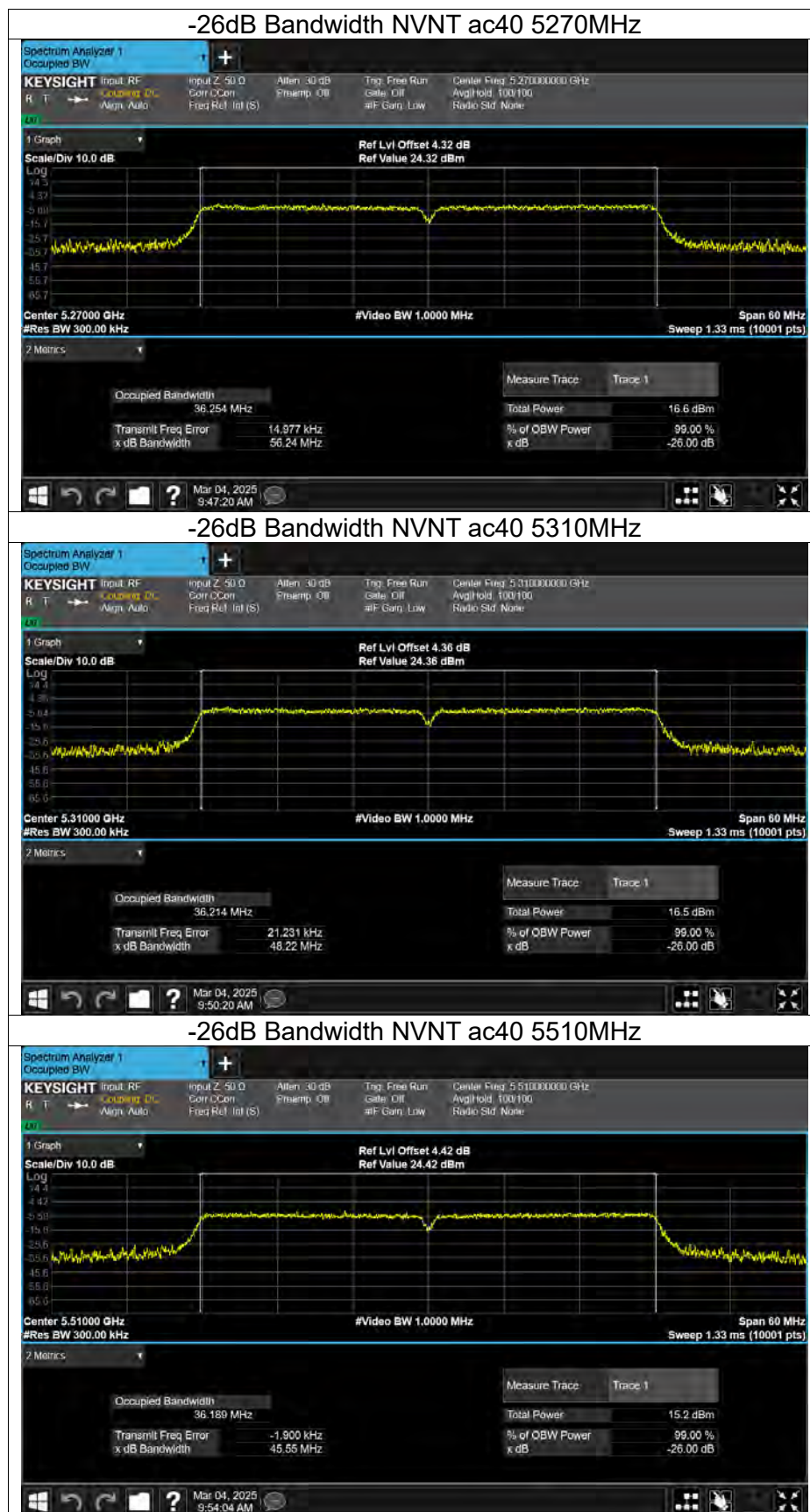


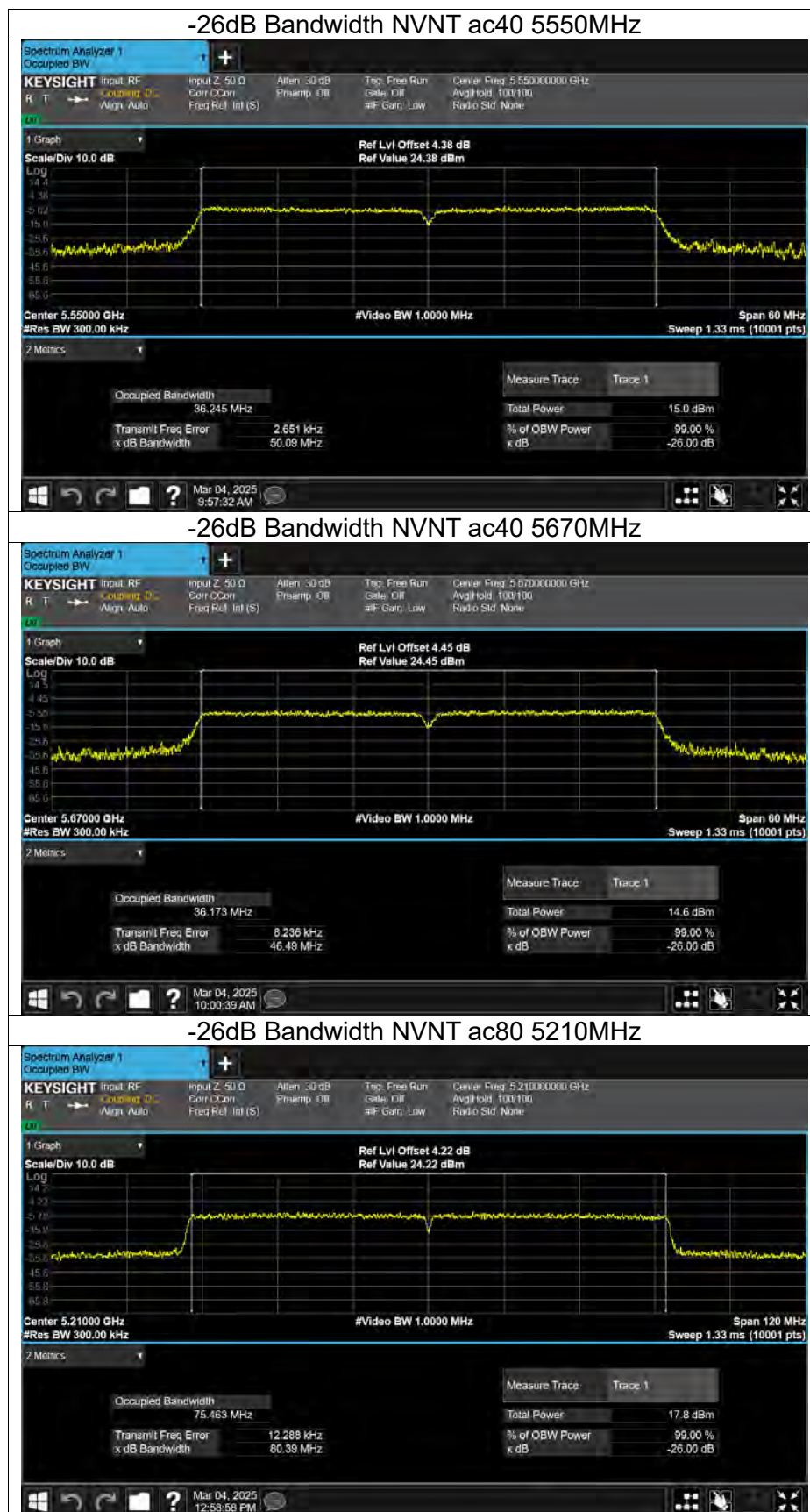


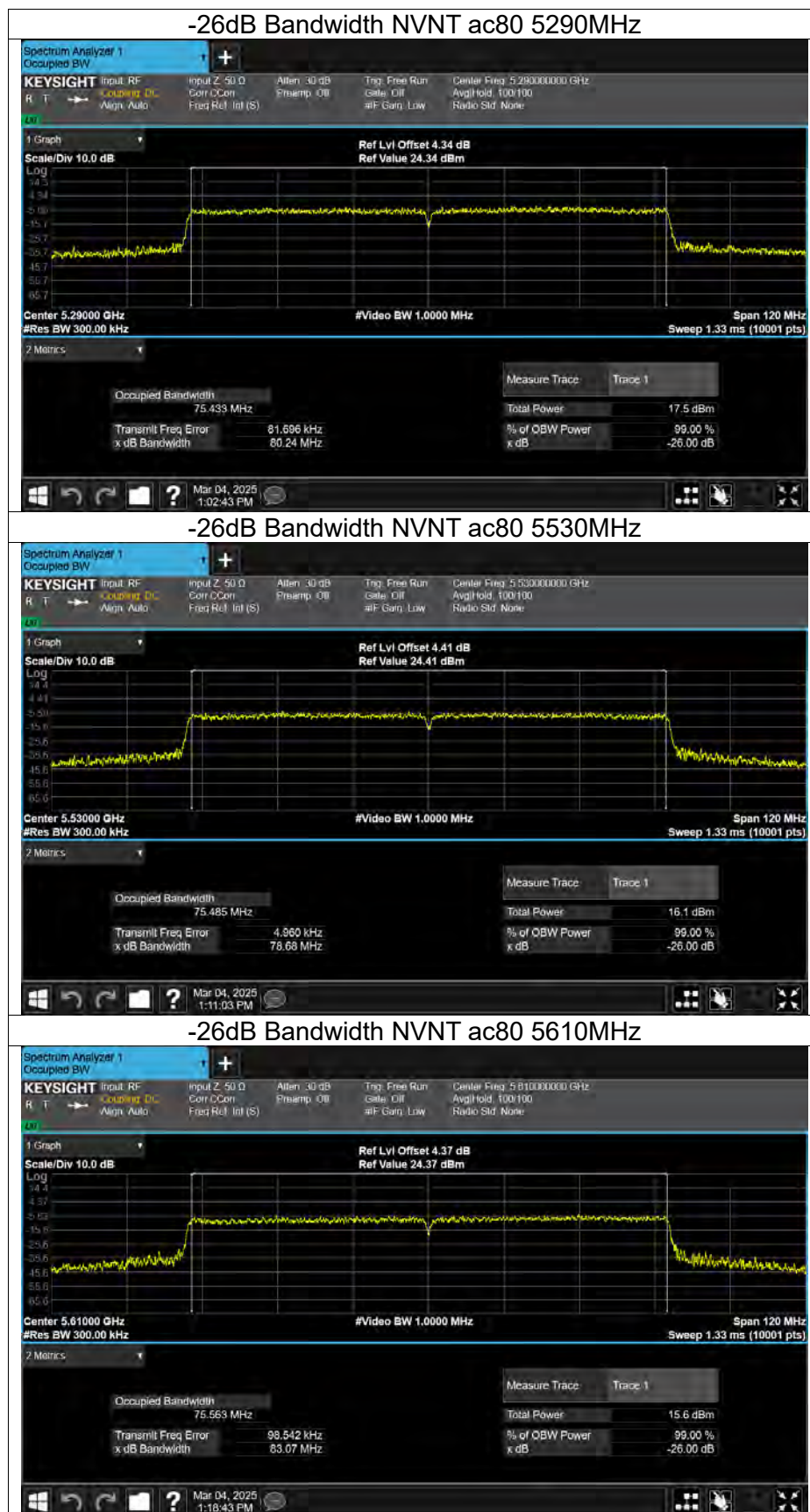














Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	a	5180	16.813
NVNT	a	5200	16.911
NVNT	a	5240	16.779
NVNT	a	5260	16.784
NVNT	a	5300	16.66
NVNT	a	5320	16.682
NVNT	a	5500	16.646
NVNT	a	5580	16.607
NVNT	a	5700	16.568
NVNT	n20	5180	17.594
NVNT	n20	5200	17.642
NVNT	n20	5240	17.602
NVNT	n20	5260	17.623
NVNT	n20	5300	17.603
NVNT	n20	5320	17.629
NVNT	n20	5500	17.606
NVNT	n20	5580	17.603
NVNT	n20	5700	17.624
NVNT	n40	5190	36.286
NVNT	n40	5230	36.262
NVNT	n40	5270	36.284
NVNT	n40	5310	36.292
NVNT	n40	5510	36.286
NVNT	n40	5550	36.307
NVNT	n40	5670	36.255
NVNT	ac20	5180	17.599
NVNT	ac20	5200	17.616
NVNT	ac20	5240	17.606
NVNT	ac20	5260	17.603
NVNT	ac20	5300	17.6
NVNT	ac20	5320	17.606
NVNT	ac20	5500	17.603
NVNT	ac20	5580	17.602
NVNT	ac20	5700	17.614
NVNT	ac40	5190	36.279
NVNT	ac40	5230	36.285
NVNT	ac40	5270	36.307
NVNT	ac40	5310	36.266
NVNT	ac40	5510	36.289
NVNT	ac40	5550	36.311
NVNT	ac40	5670	36.261
NVNT	ac80	5210	75.589
NVNT	ac80	5290	75.574
NVNT	ac80	5530	75.482
NVNT	ac80	5610	75.685



Test Graphs

OBW NVNT a 5180MHz



OBW NVNT a 5200MHz



OBW NVNT a 5240MHz





OBW NVNT a 5260MHz



OBW NVNT a 5300MHz



OBW NVNT a 5320MHz





OBW NVNT a 5500MHz



OBW NVNT a 5580MHz



OBW NVNT a 5700MHz





OBW NVNT n20 5180MHz



OBW NVNT n20 5200MHz



OBW NVNT n20 5240MHz





OBW NVNT n20 5260MHz



OBW NVNT n20 5300MHz



OBW NVNT n20 5320MHz





OBW NVNT n20 5500MHz



OBW NVNT n20 5580MHz



OBW NVNT n20 5700MHz





OBW NVNT n40 5190MHz

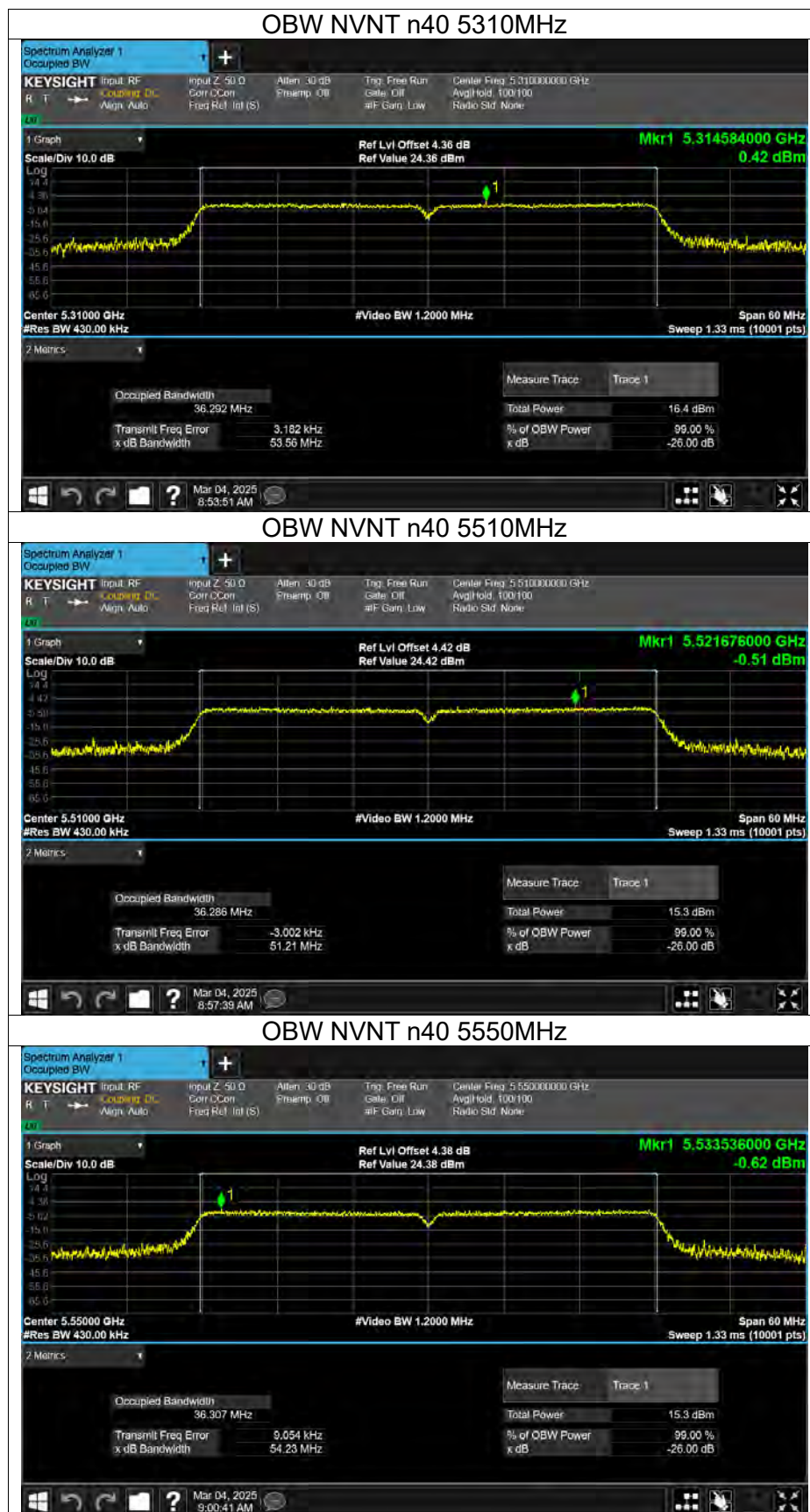


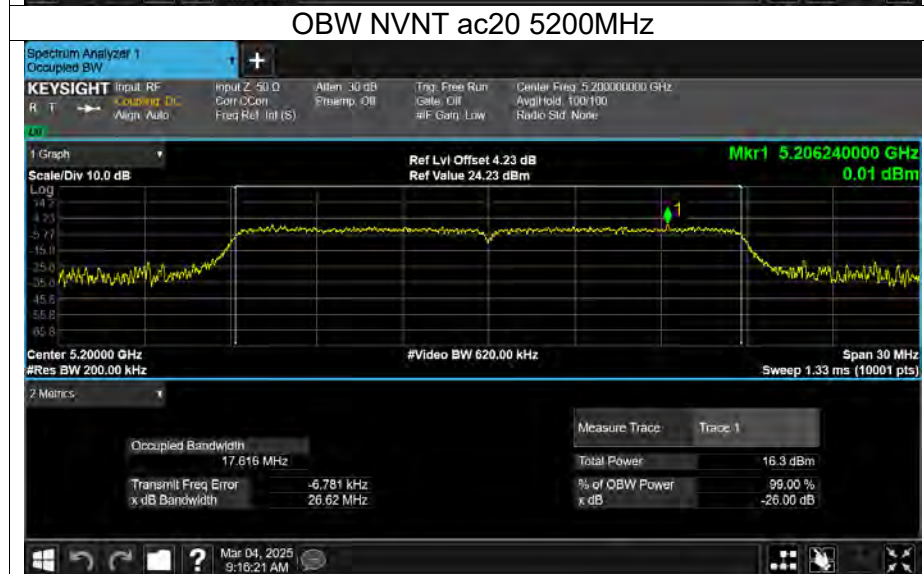
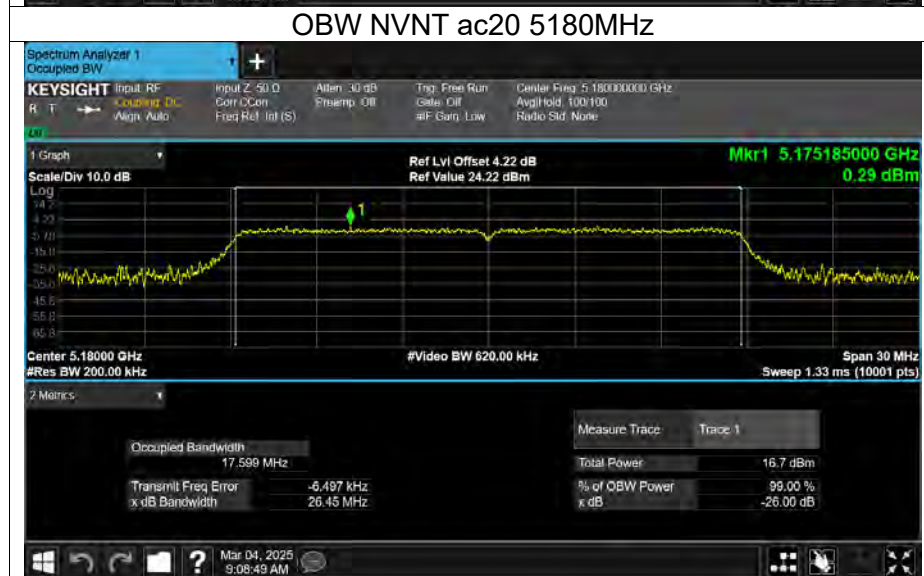
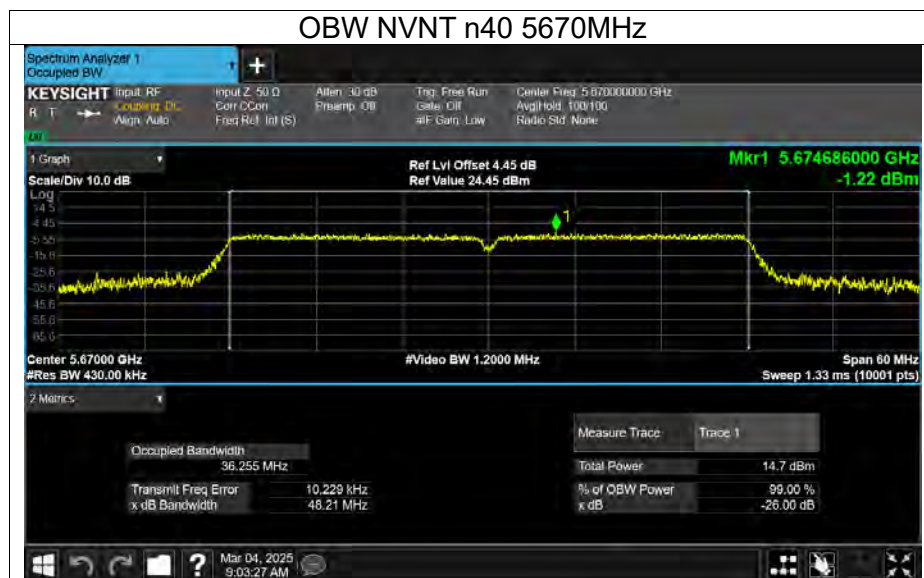
OBW NVNT n40 5230MHz

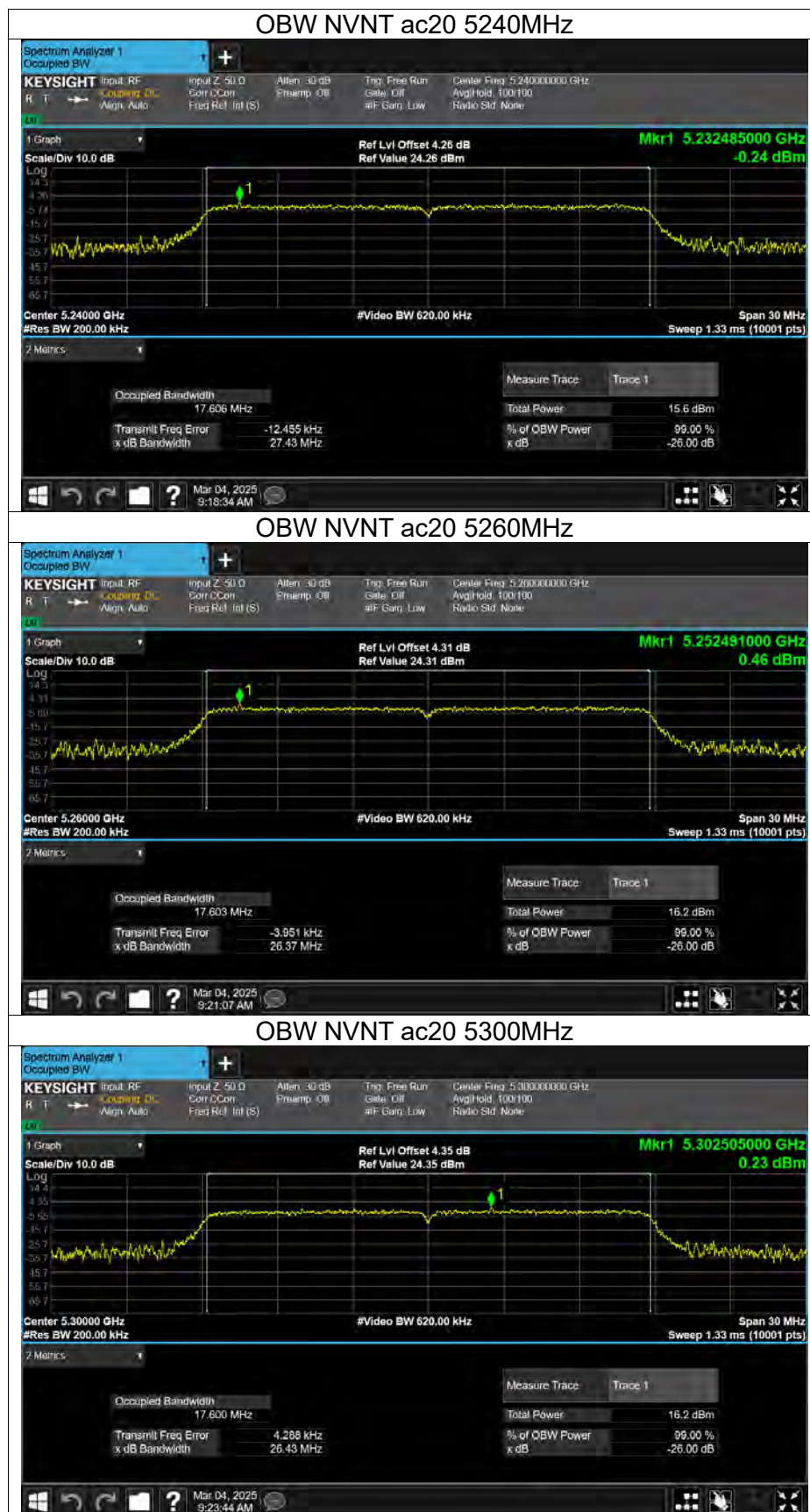


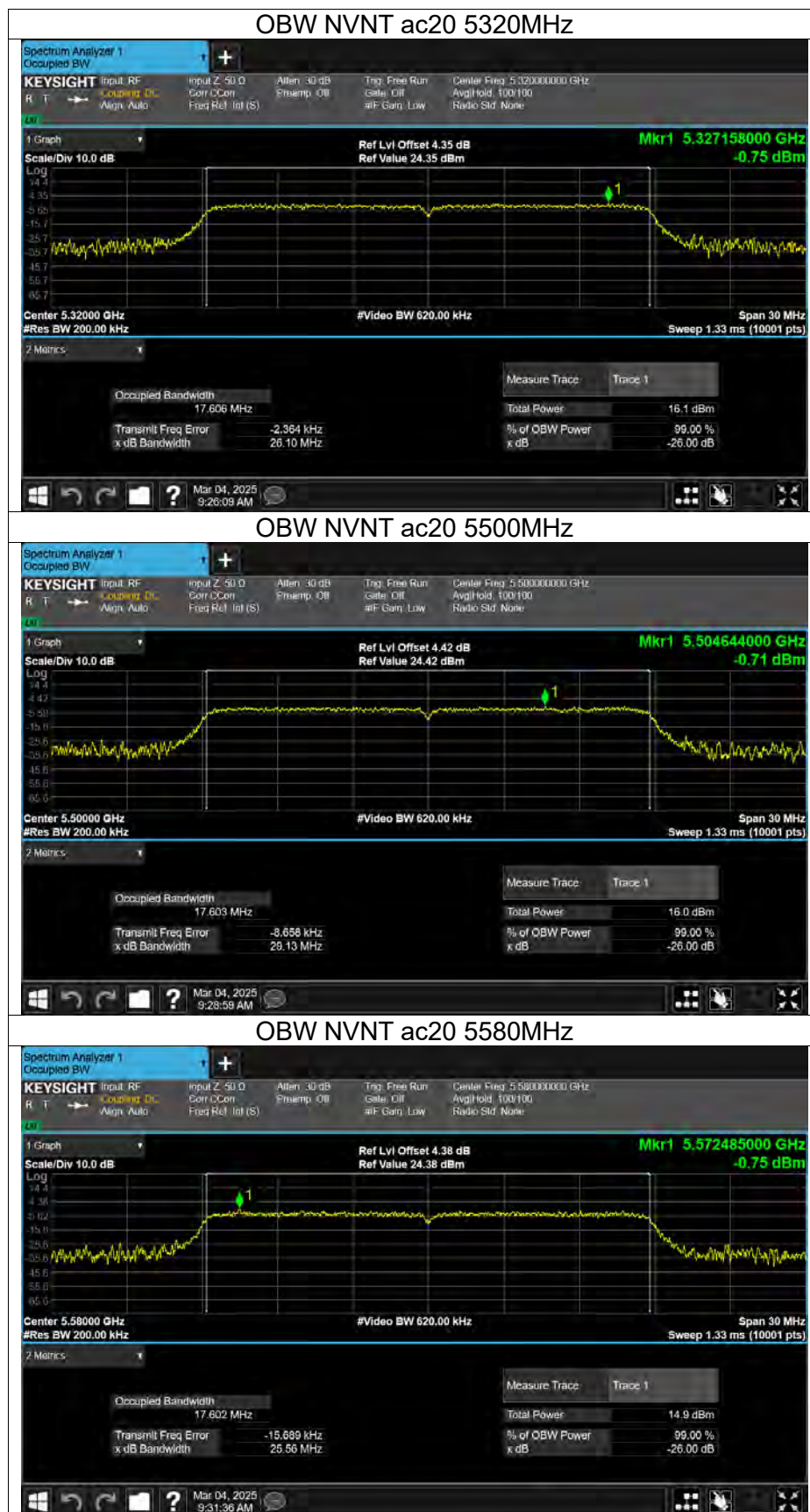
OBW NVNT n40 5270MHz

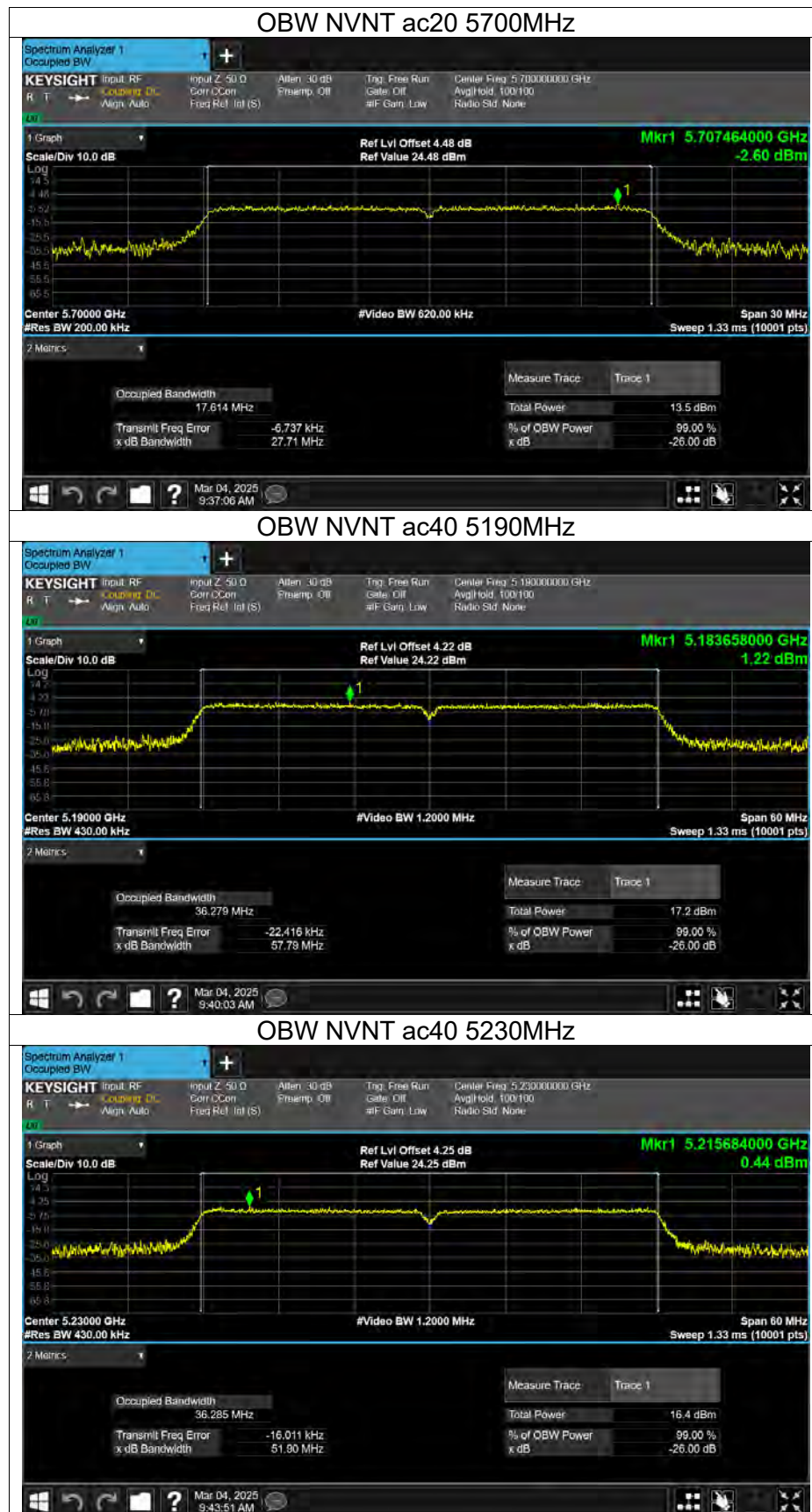


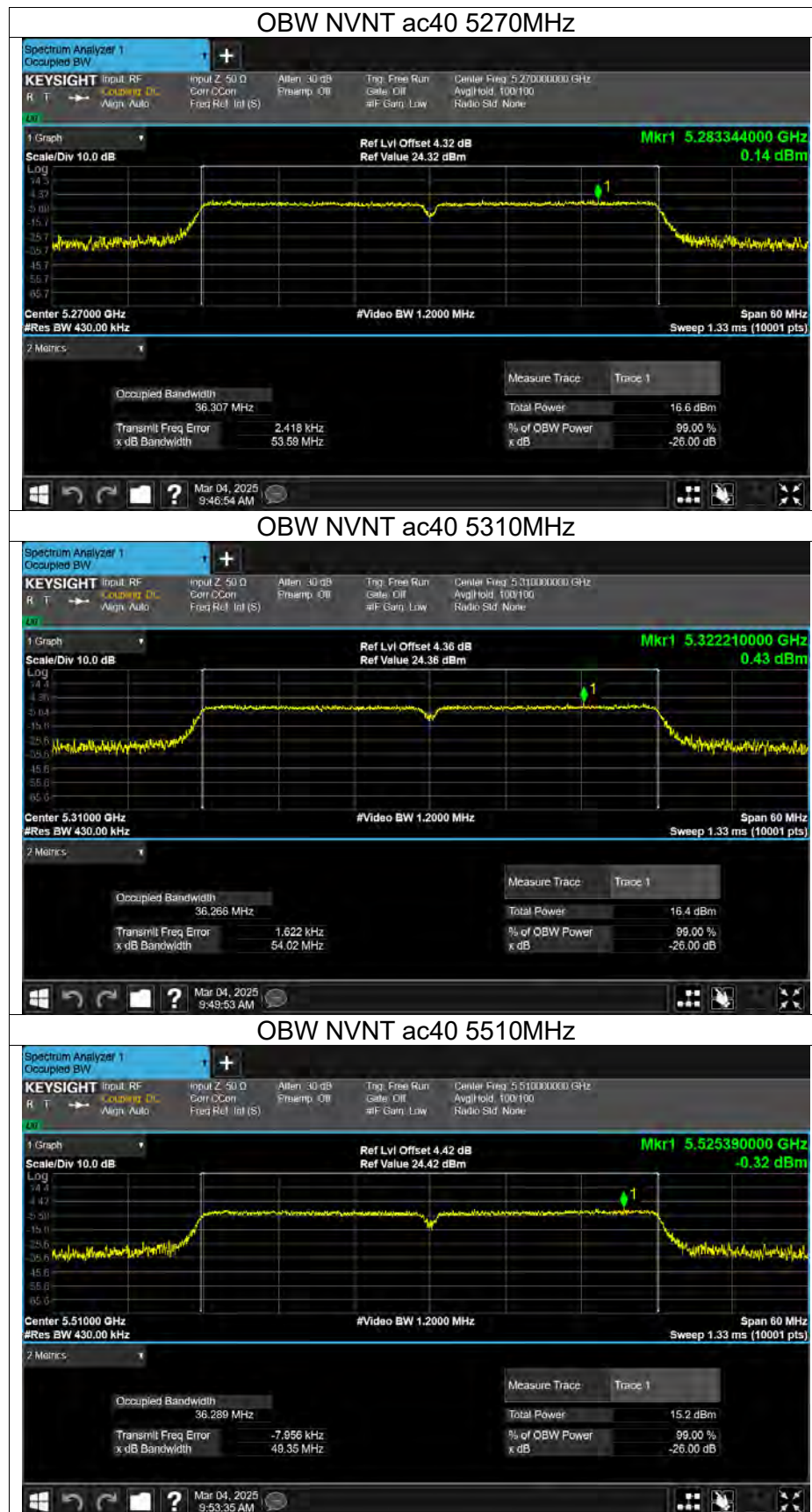


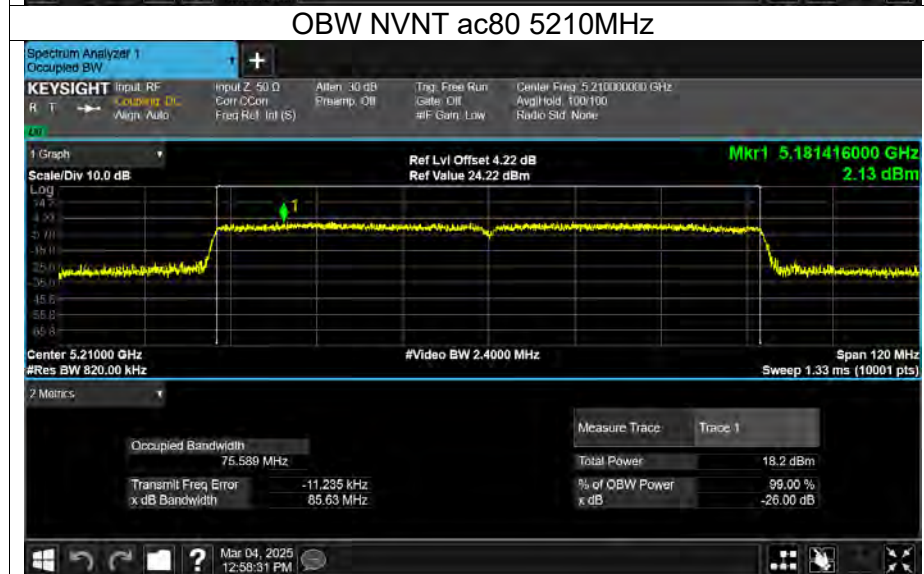
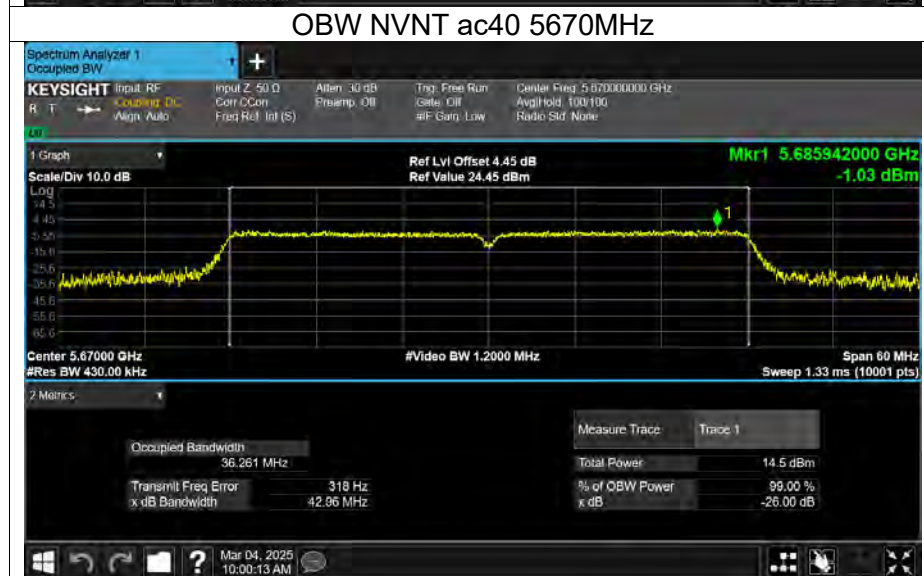
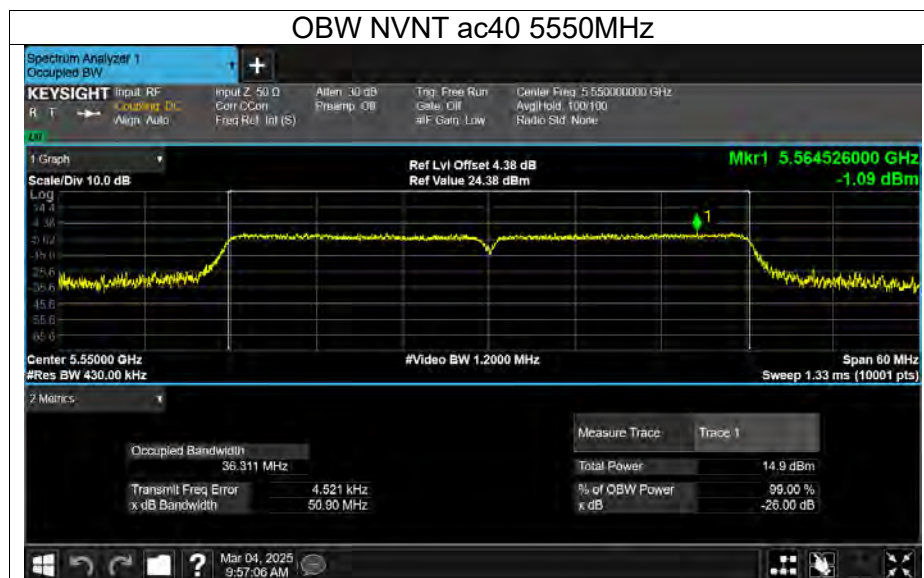


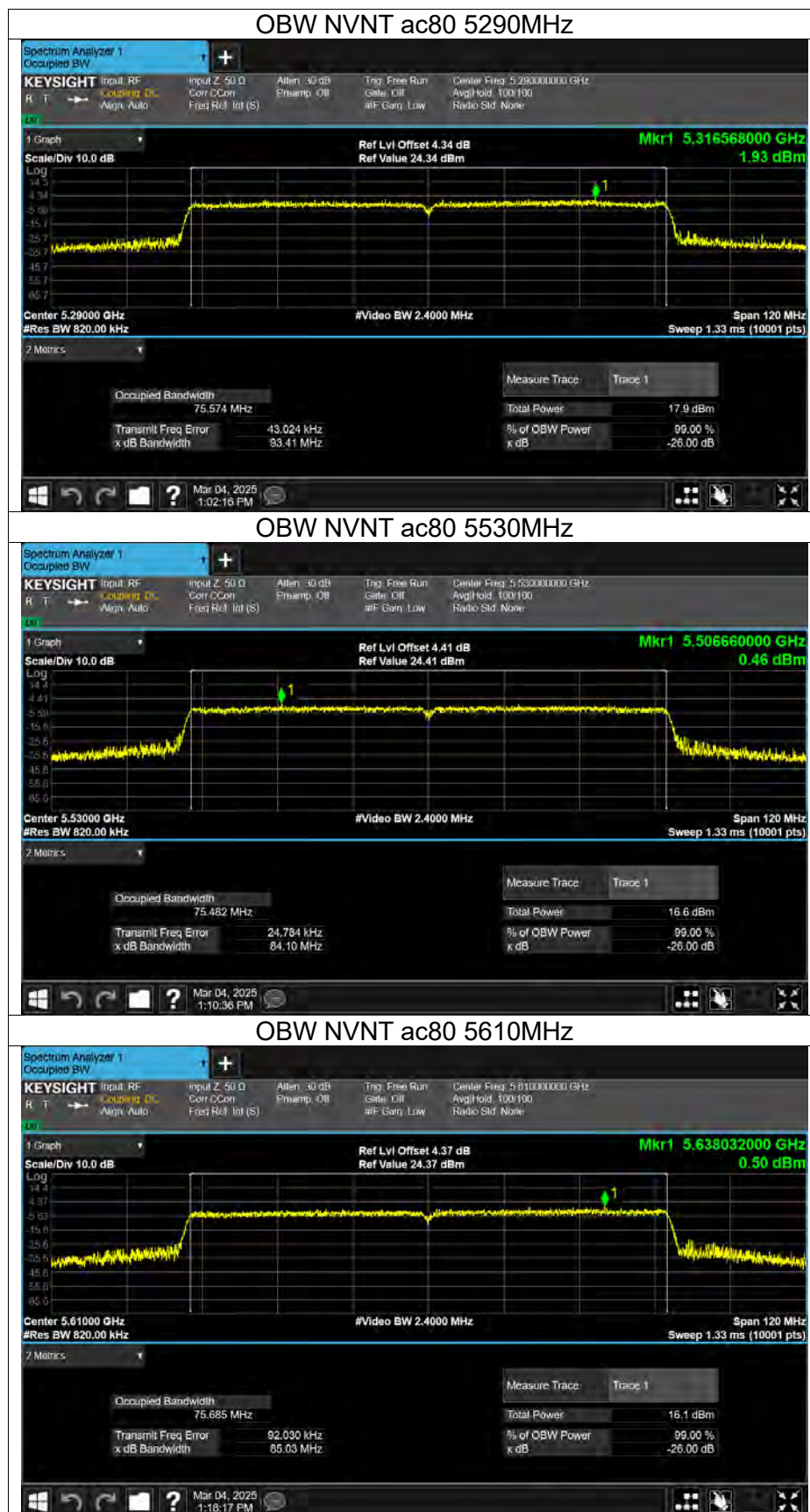








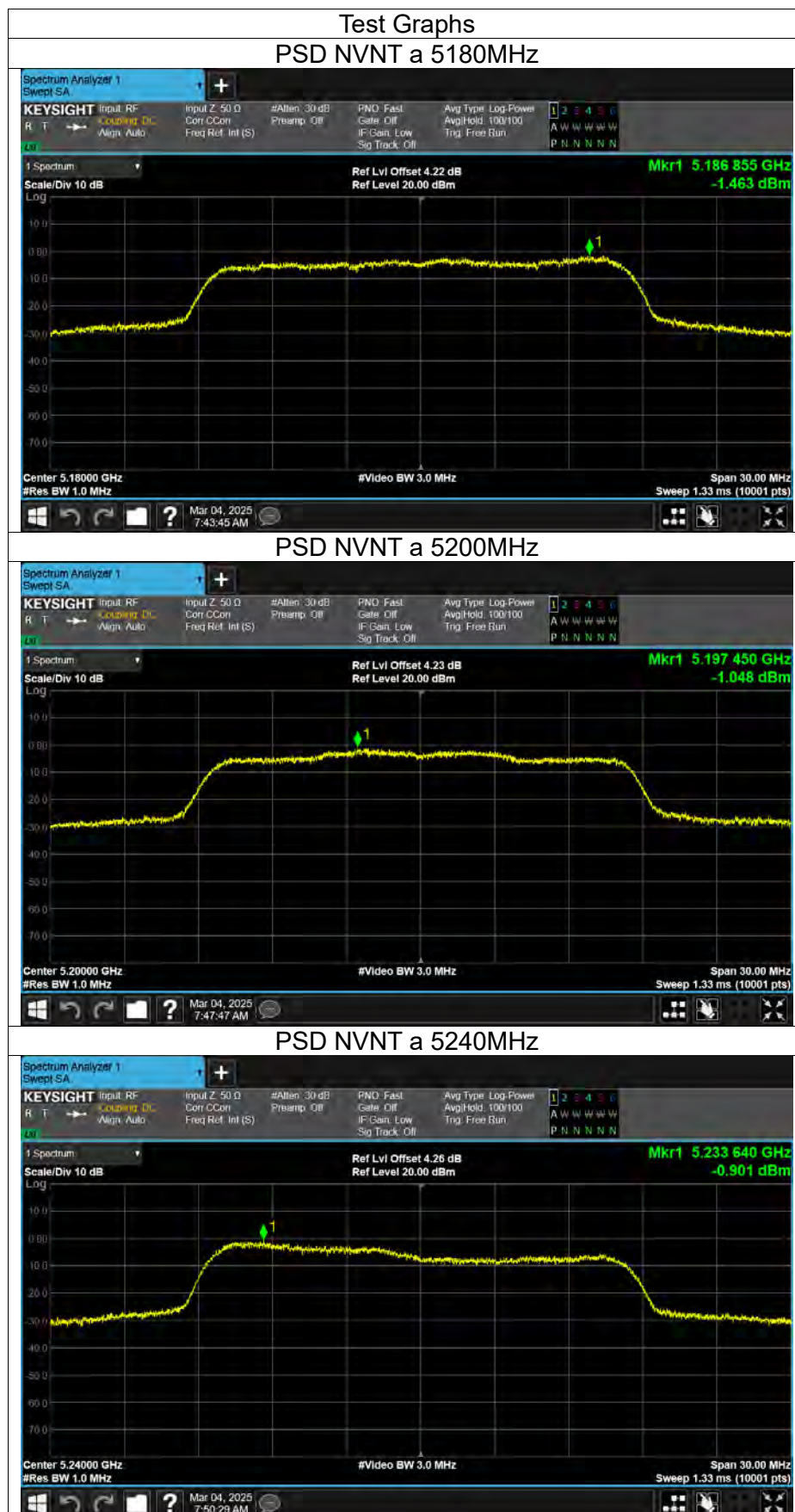


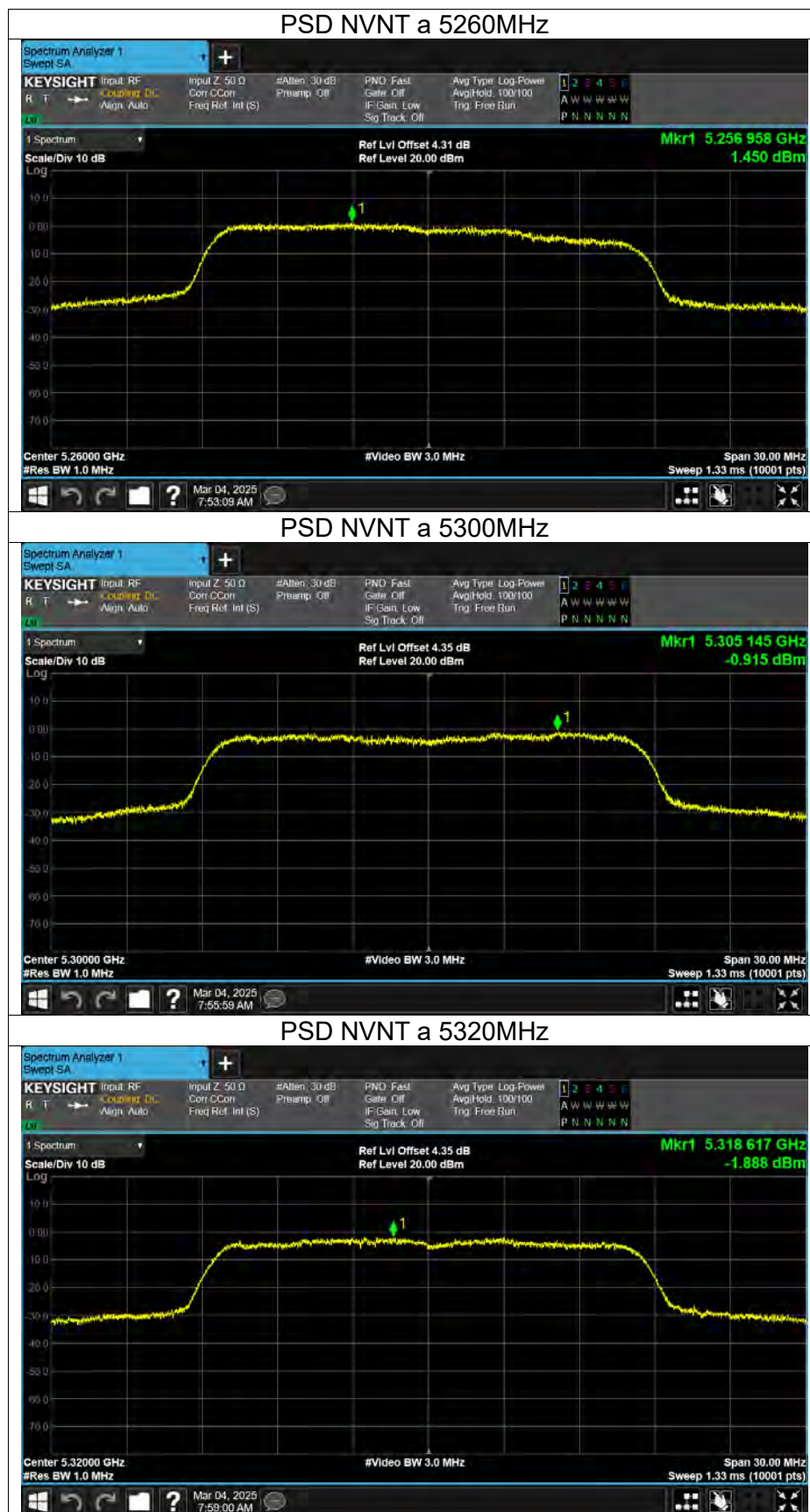


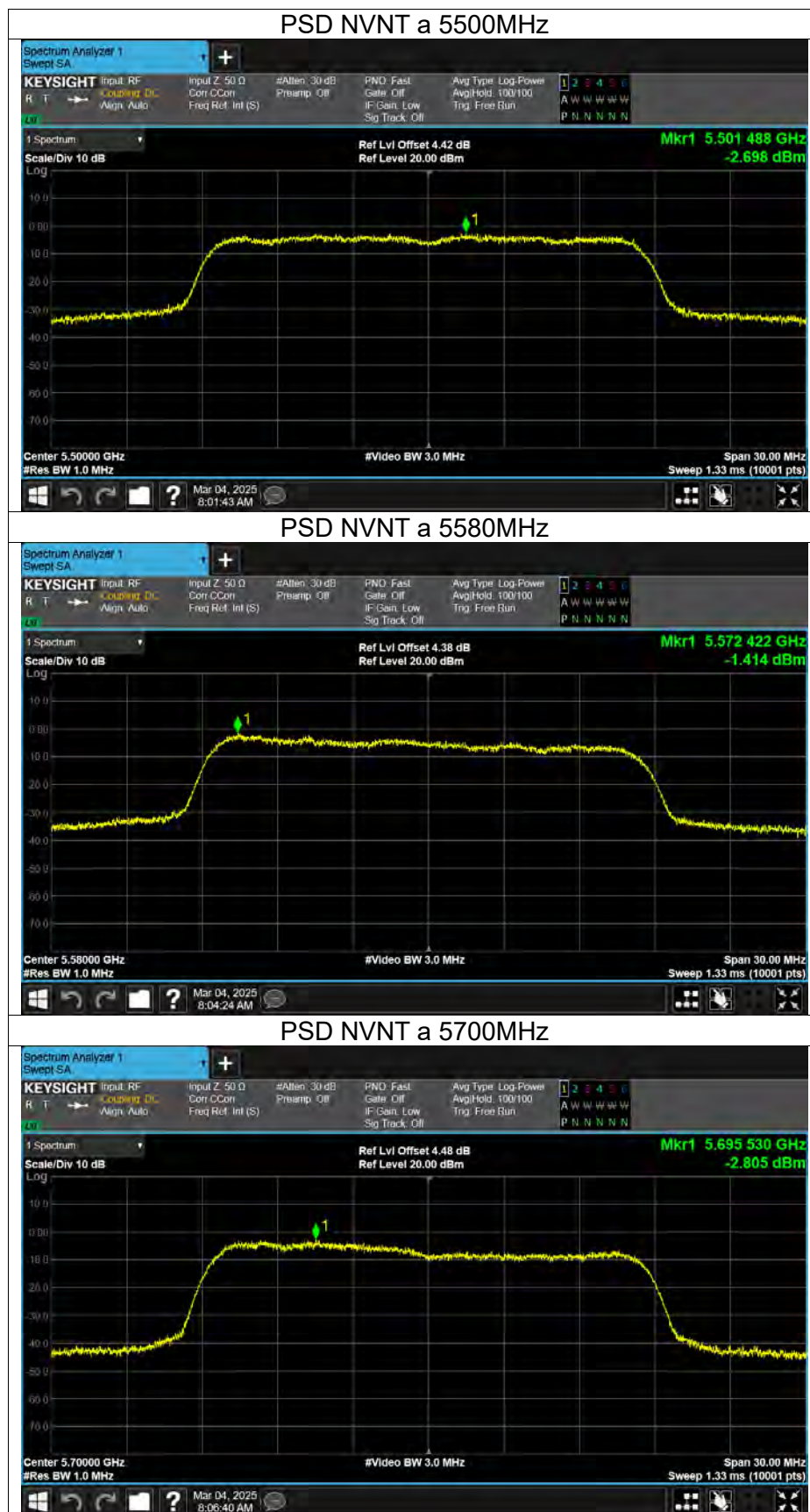


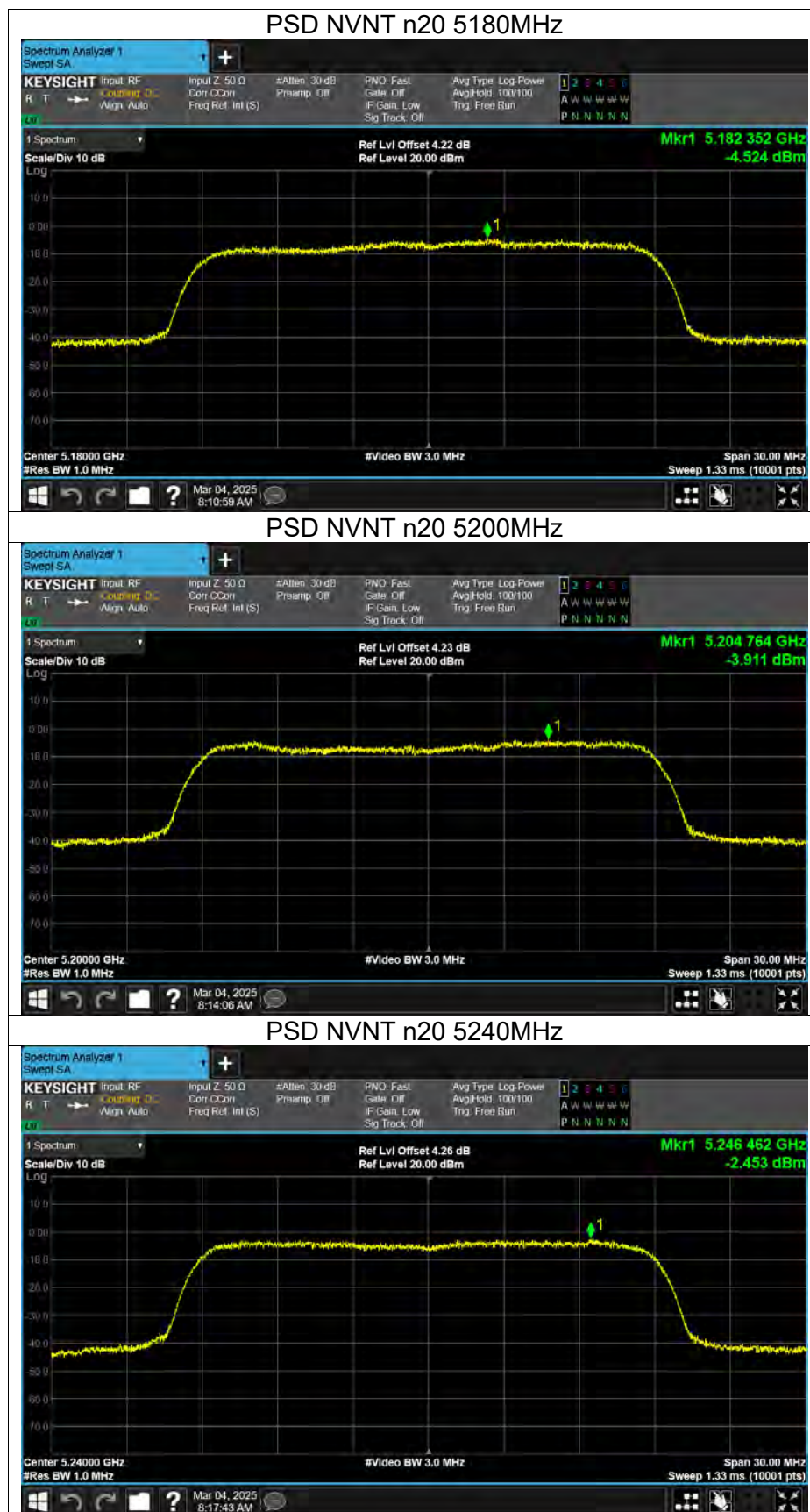
Maximum Power Spectral Density Level

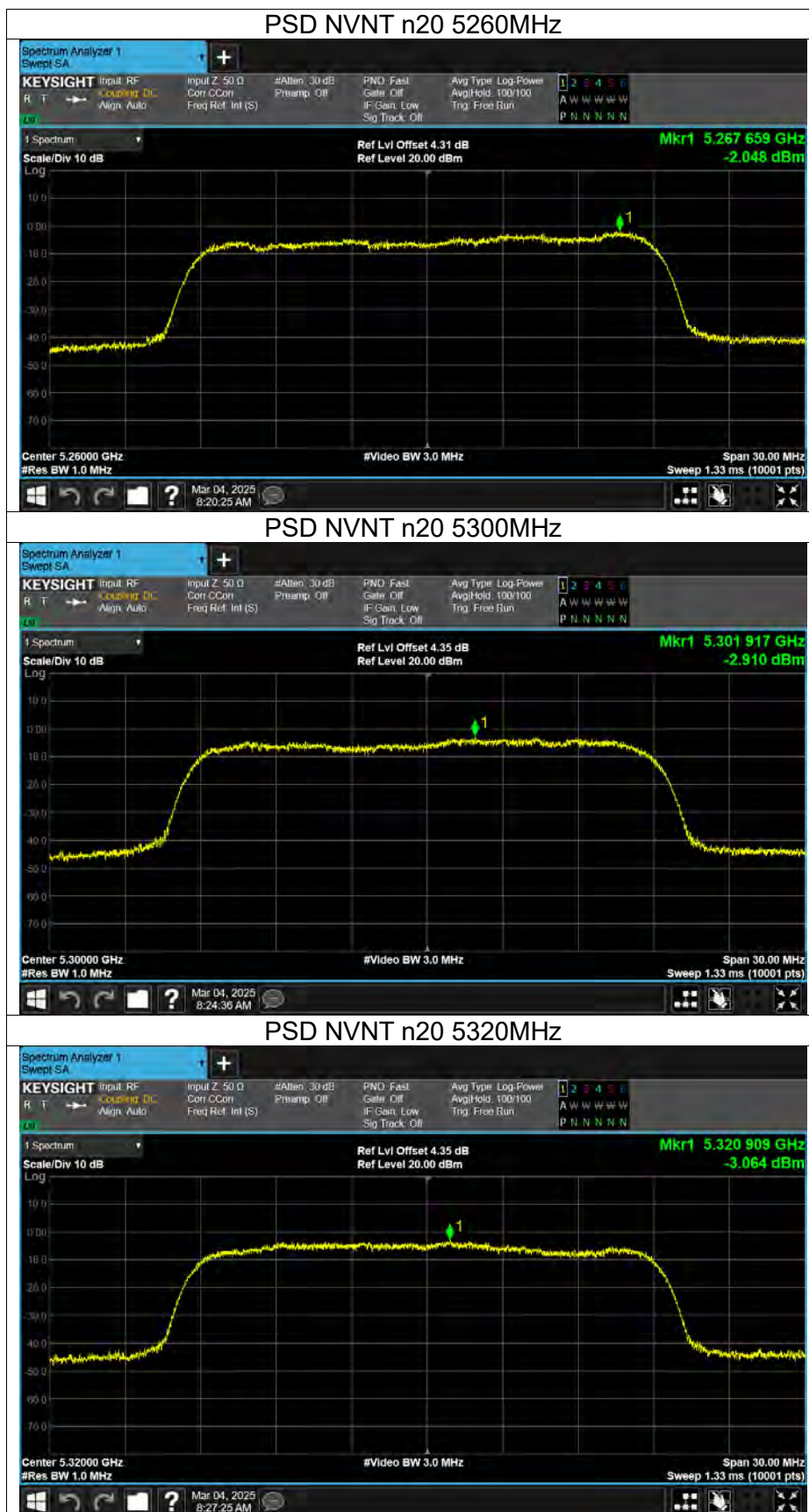
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	-1.46	0.32	-1.14	11	Pass
NVNT	a	5200	-1.05	0.32	-0.73	11	Pass
NVNT	a	5240	-0.9	0.32	-0.58	11	Pass
NVNT	a	5260	1.45	0.32	1.77	11	Pass
NVNT	a	5300	-0.92	0.32	-0.6	11	Pass
NVNT	a	5320	-1.89	0.33	-1.56	11	Pass
NVNT	a	5500	-2.7	0.32	-2.38	11	Pass
NVNT	a	5580	-1.41	0.32	-1.09	11	Pass
NVNT	a	5700	-2.81	0.32	-2.49	11	Pass
NVNT	n20	5180	-4.52	0.34	-4.18	11	Pass
NVNT	n20	5200	-3.91	0.35	-3.56	11	Pass
NVNT	n20	5240	-2.45	0.34	-2.11	11	Pass
NVNT	n20	5260	-2.05	0.34	-1.71	11	Pass
NVNT	n20	5300	-2.91	0.34	-2.57	11	Pass
NVNT	n20	5320	-3.06	0.35	-2.71	11	Pass
NVNT	n20	5500	-3.7	0.35	-3.35	11	Pass
NVNT	n20	5580	-3.62	0.34	-3.28	11	Pass
NVNT	n20	5700	-6.86	0.35	-6.51	11	Pass
NVNT	n40	5190	-9.36	0.71	-8.65	11	Pass
NVNT	n40	5230	-10.33	0.69	-9.64	11	Pass
NVNT	n40	5270	-8.27	0.69	-7.58	11	Pass
NVNT	n40	5310	-9.89	0.69	-9.2	11	Pass
NVNT	n40	5510	-11.52	0.68	-10.84	11	Pass
NVNT	n40	5550	-10.29	0.68	-9.61	11	Pass
NVNT	n40	5670	-12.04	0.69	-11.35	11	Pass
NVNT	ac20	5180	-4.9	0.35	-4.55	11	Pass
NVNT	ac20	5200	-5.29	0.35	-4.94	11	Pass
NVNT	ac20	5240	-5.31	0.34	-4.97	11	Pass
NVNT	ac20	5260	-2.74	0.34	-2.4	11	Pass
NVNT	ac20	5300	-5.43	0.35	-5.08	11	Pass
NVNT	ac20	5320	-4.78	0.35	-4.43	11	Pass
NVNT	ac20	5500	-3.84	0.34	-3.5	11	Pass
NVNT	ac20	5580	-4.2	0.35	-3.85	11	Pass
NVNT	ac20	5700	-7.89	0.35	-7.54	11	Pass
NVNT	ac40	5190	-9.87	0.68	-9.19	11	Pass
NVNT	ac40	5230	-9.91	0.69	-9.22	11	Pass
NVNT	ac40	5270	-10.16	0.68	-9.48	11	Pass
NVNT	ac40	5310	-9.27	0.68	-8.59	11	Pass
NVNT	ac40	5510	-12.18	0.69	-11.49	11	Pass
NVNT	ac40	5550	-11.69	0.69	-11	11	Pass
NVNT	ac40	5670	-9.94	0.69	-9.25	11	Pass
NVNT	ac80	5210	-18.68	1.67	-17.01	11	Pass
NVNT	ac80	5290	-20.01	1.65	-18.36	11	Pass
NVNT	ac80	5530	-20.27	1.65	-18.62	11	Pass
NVNT	ac80	5610	-21.56	1.76	-19.8	11	Pass

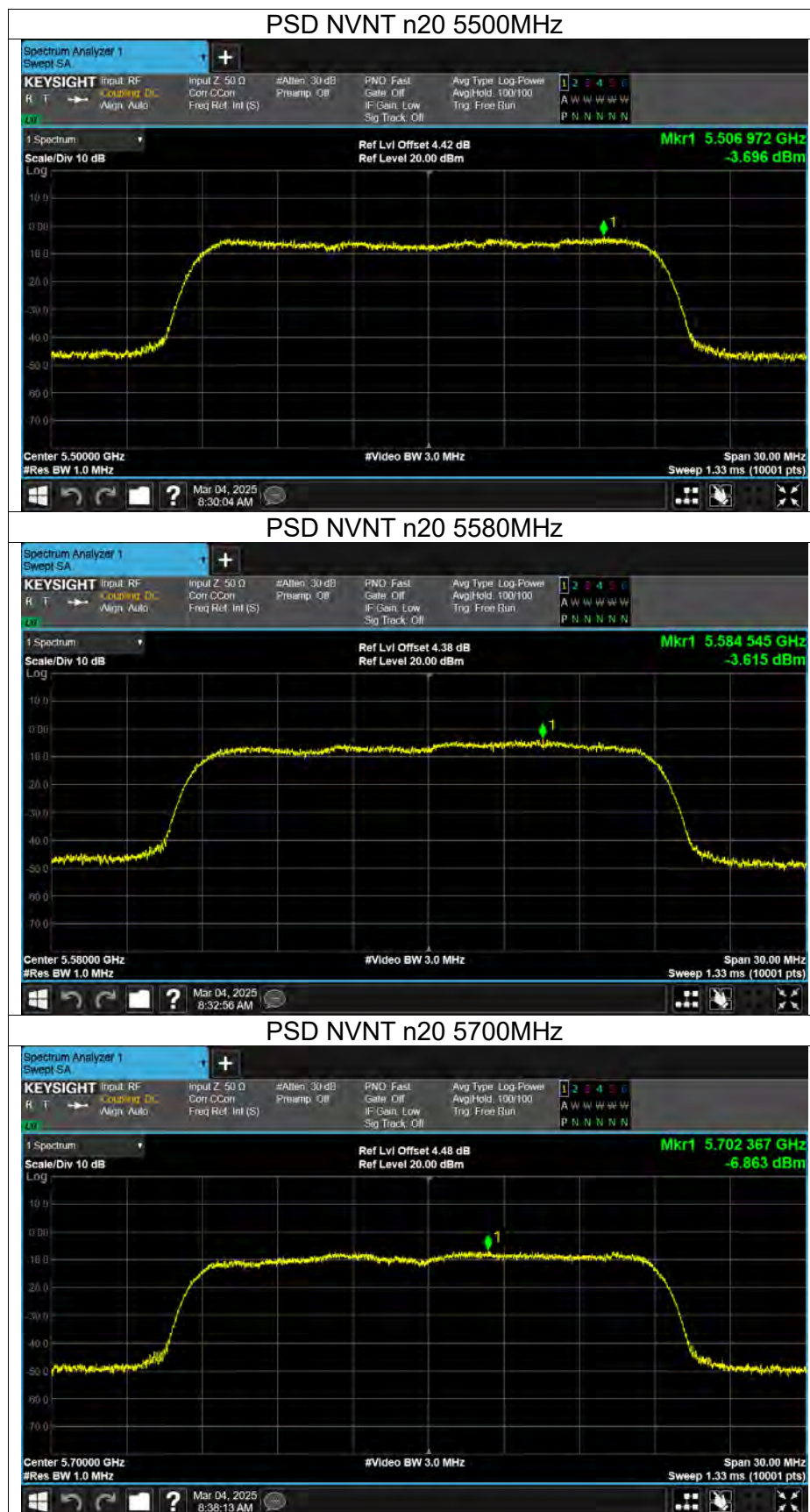


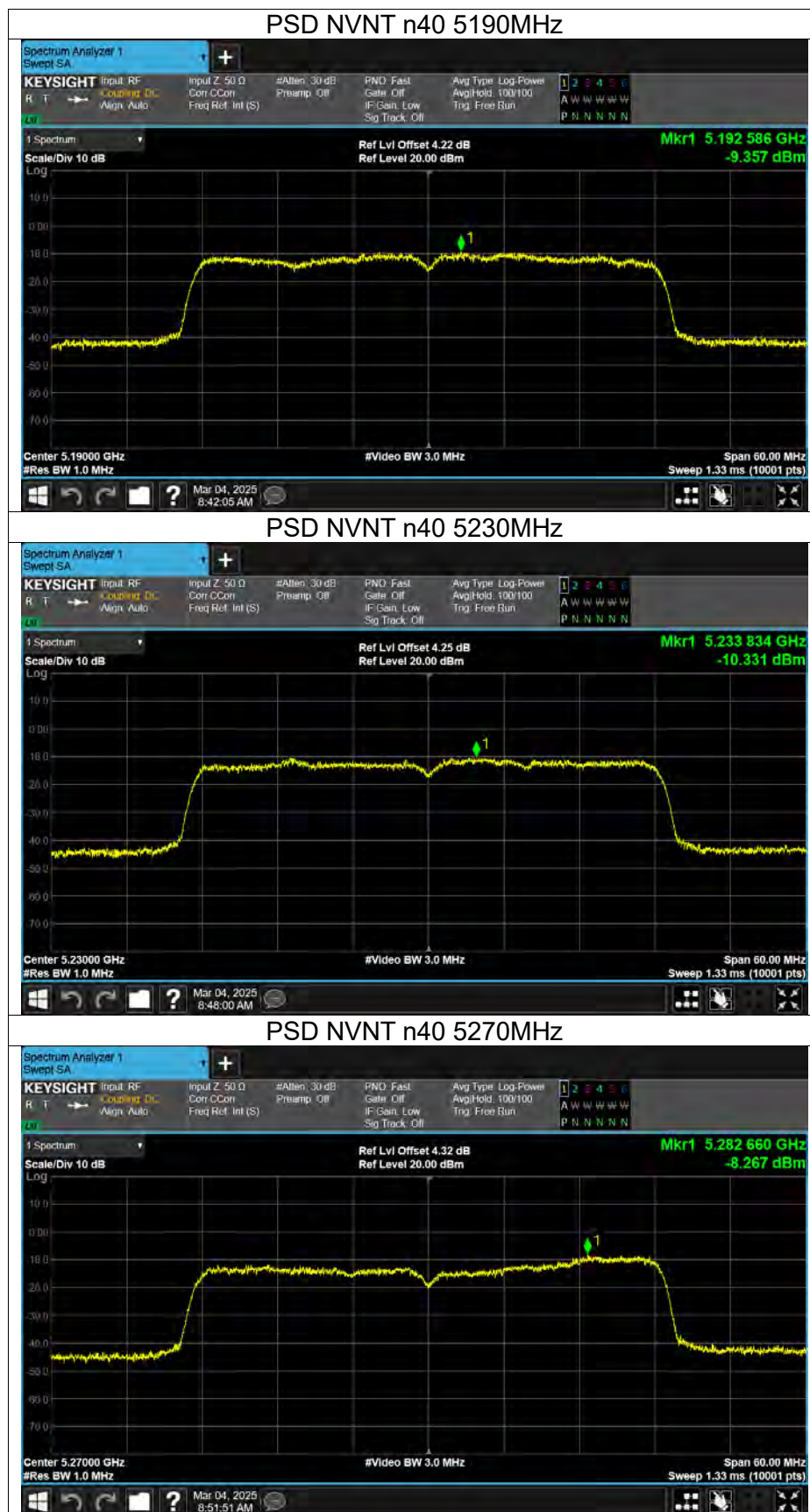


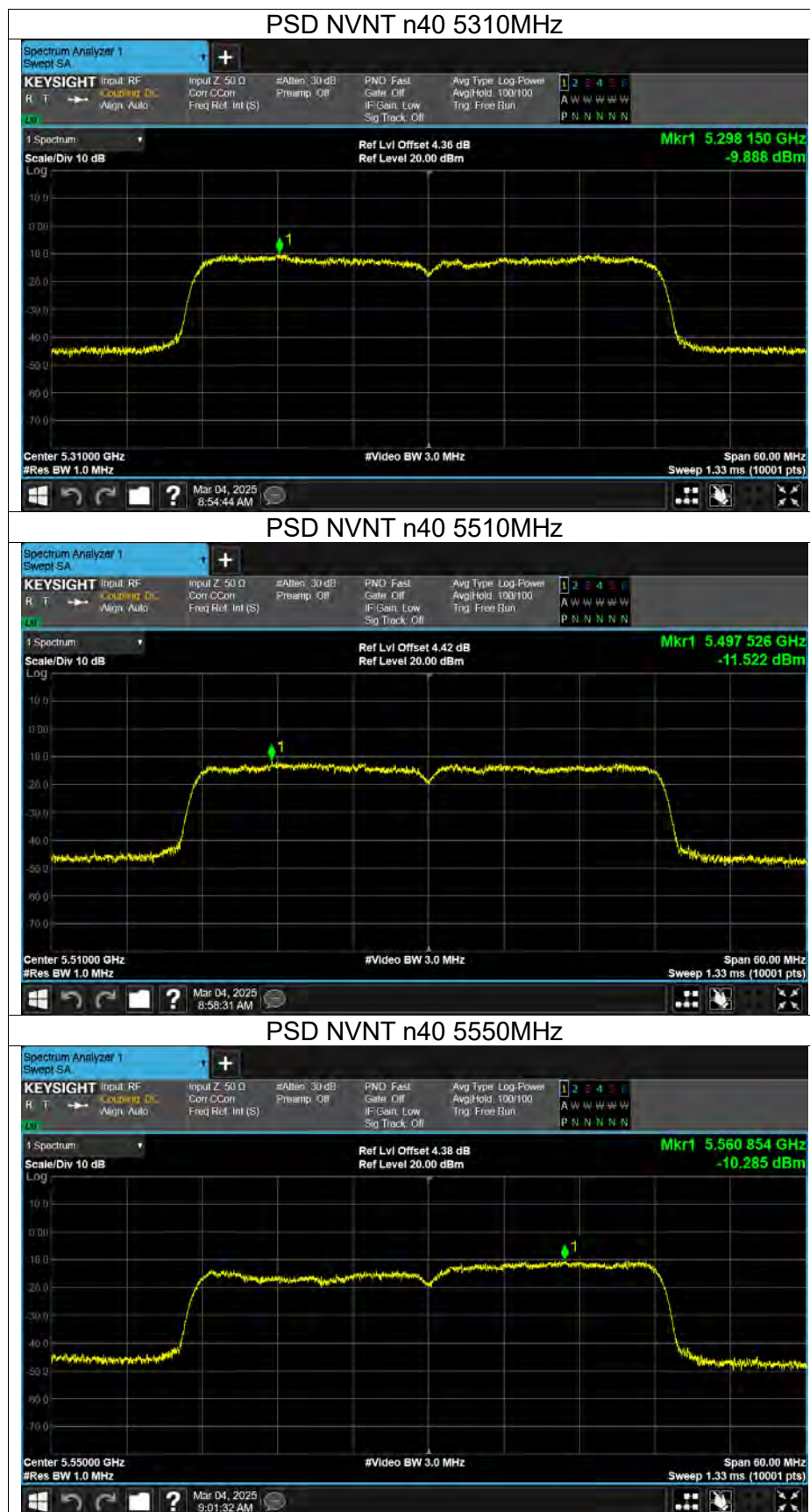


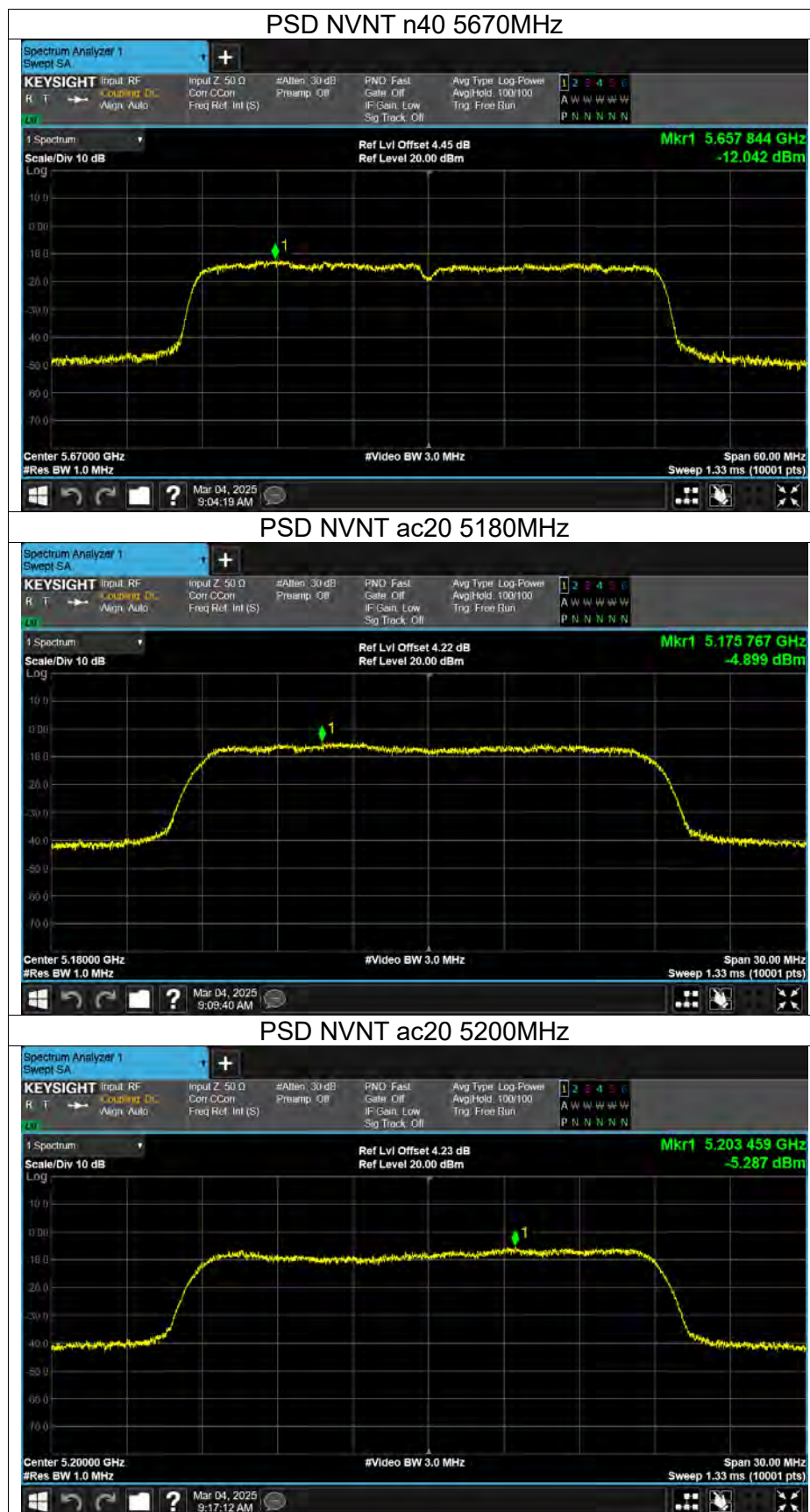


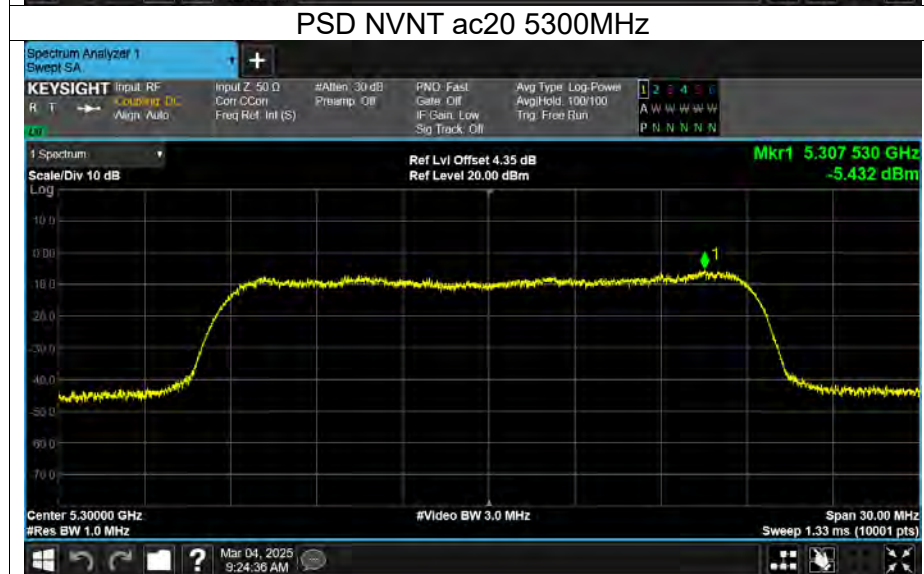
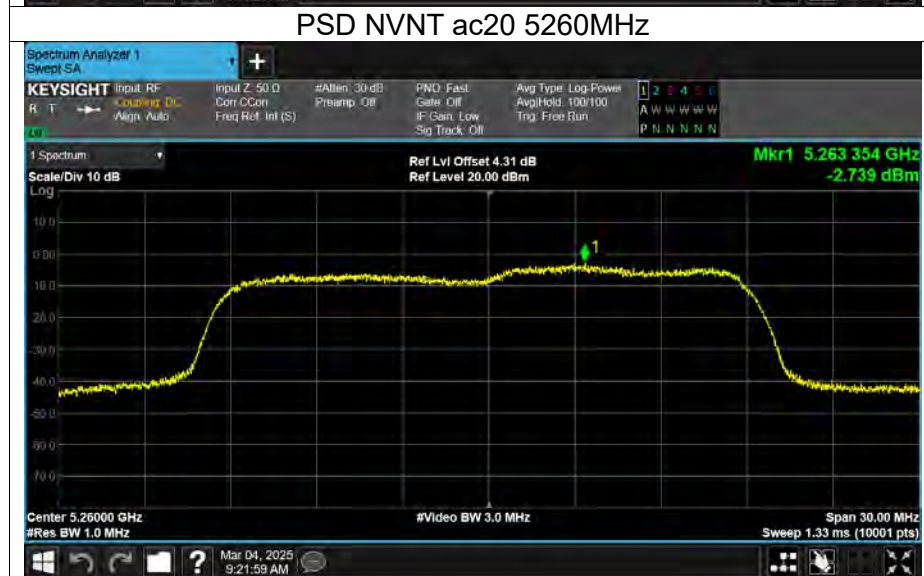
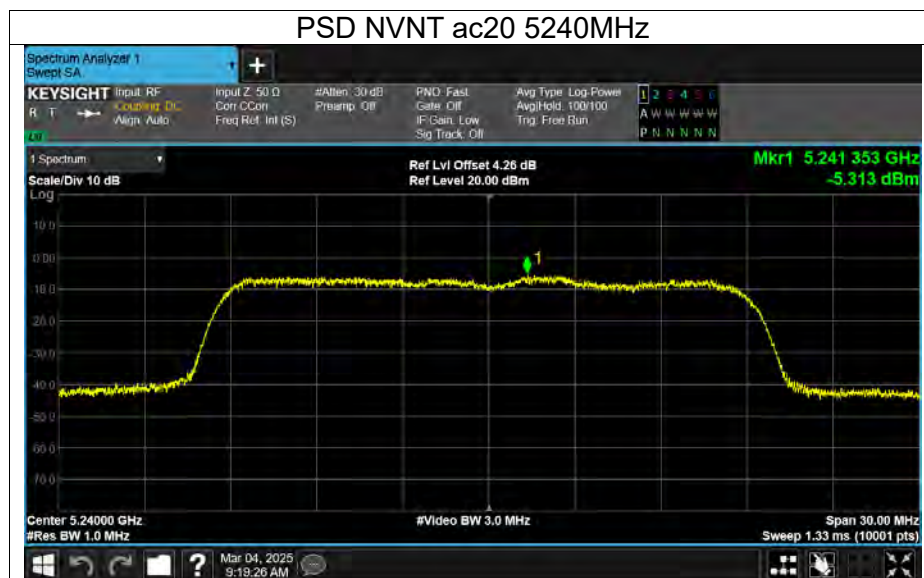




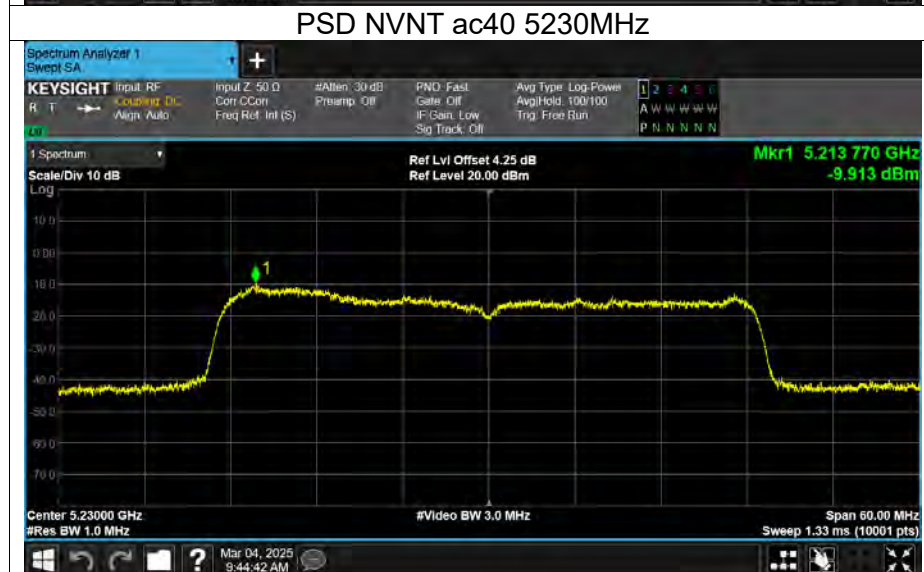
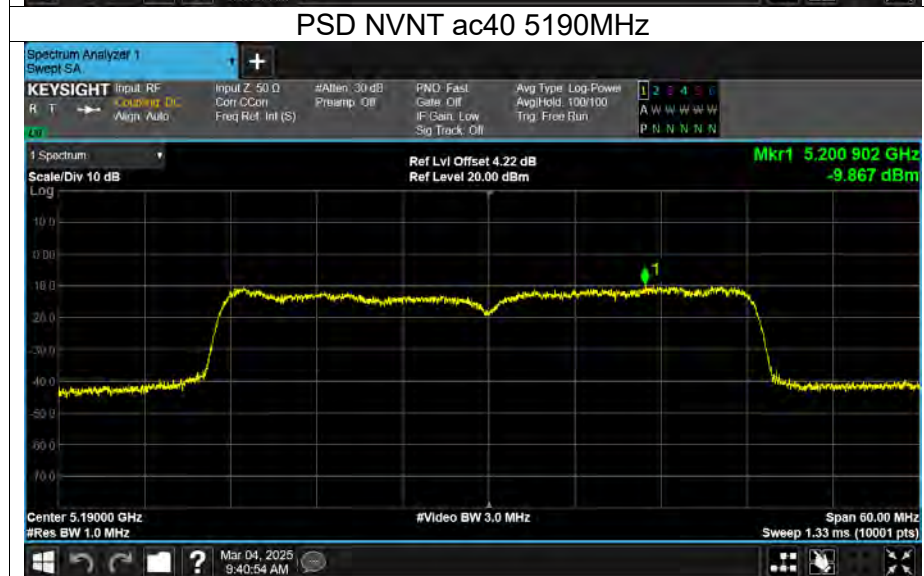
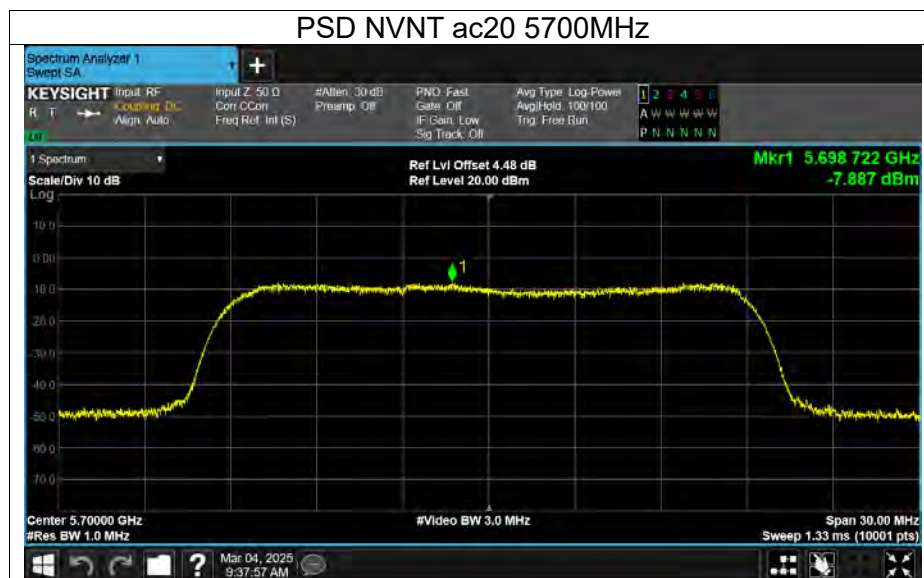


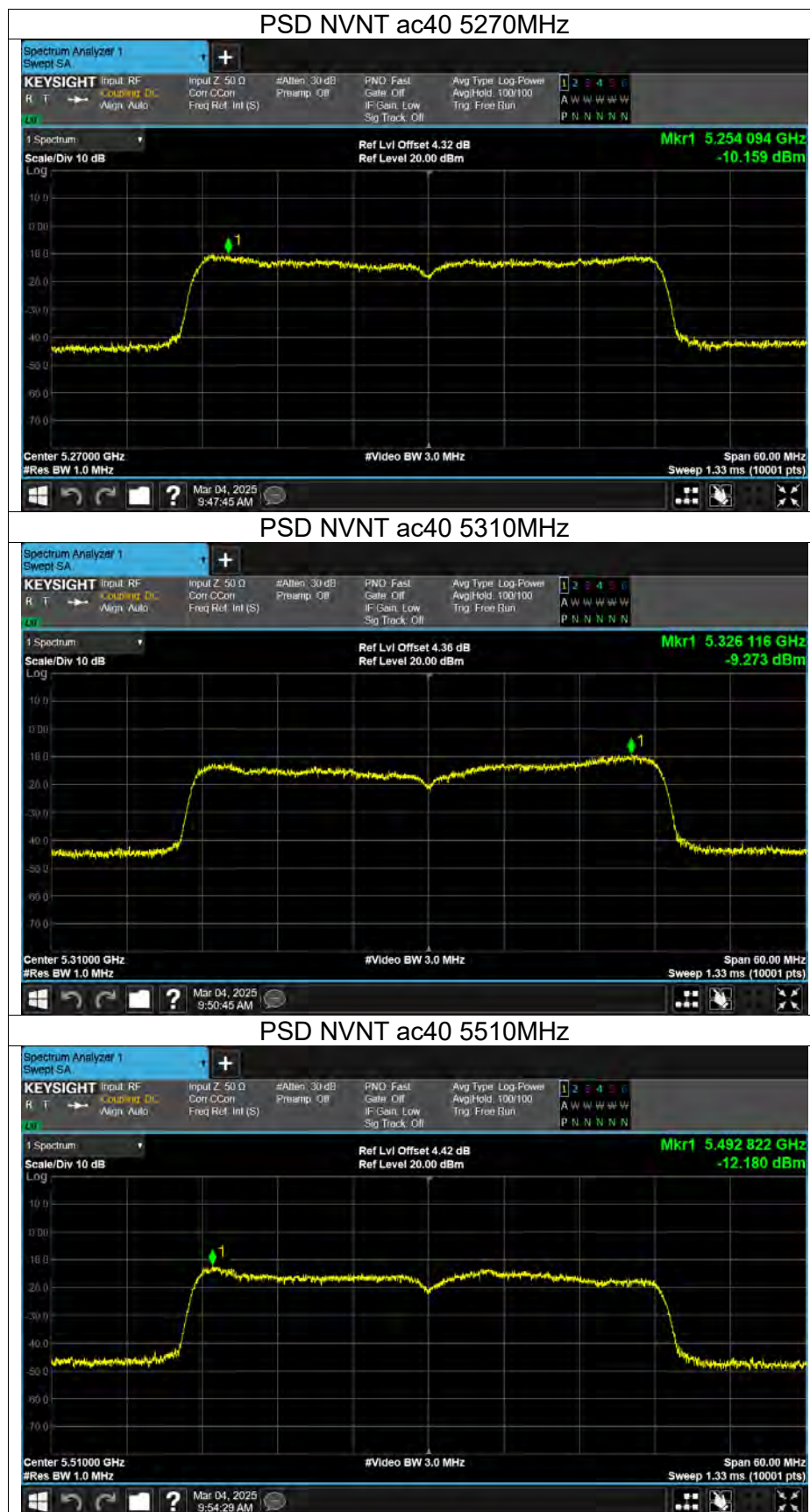


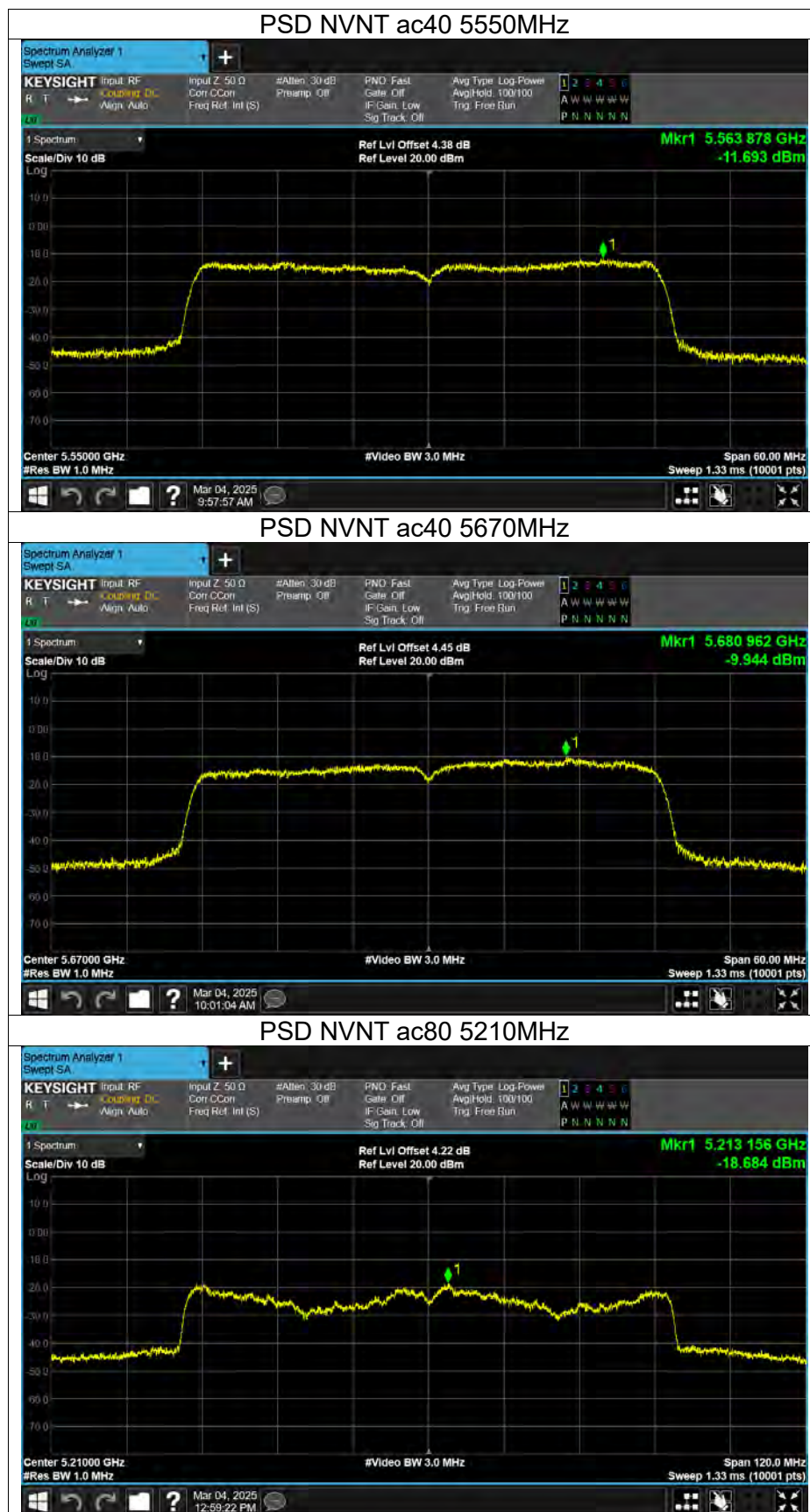


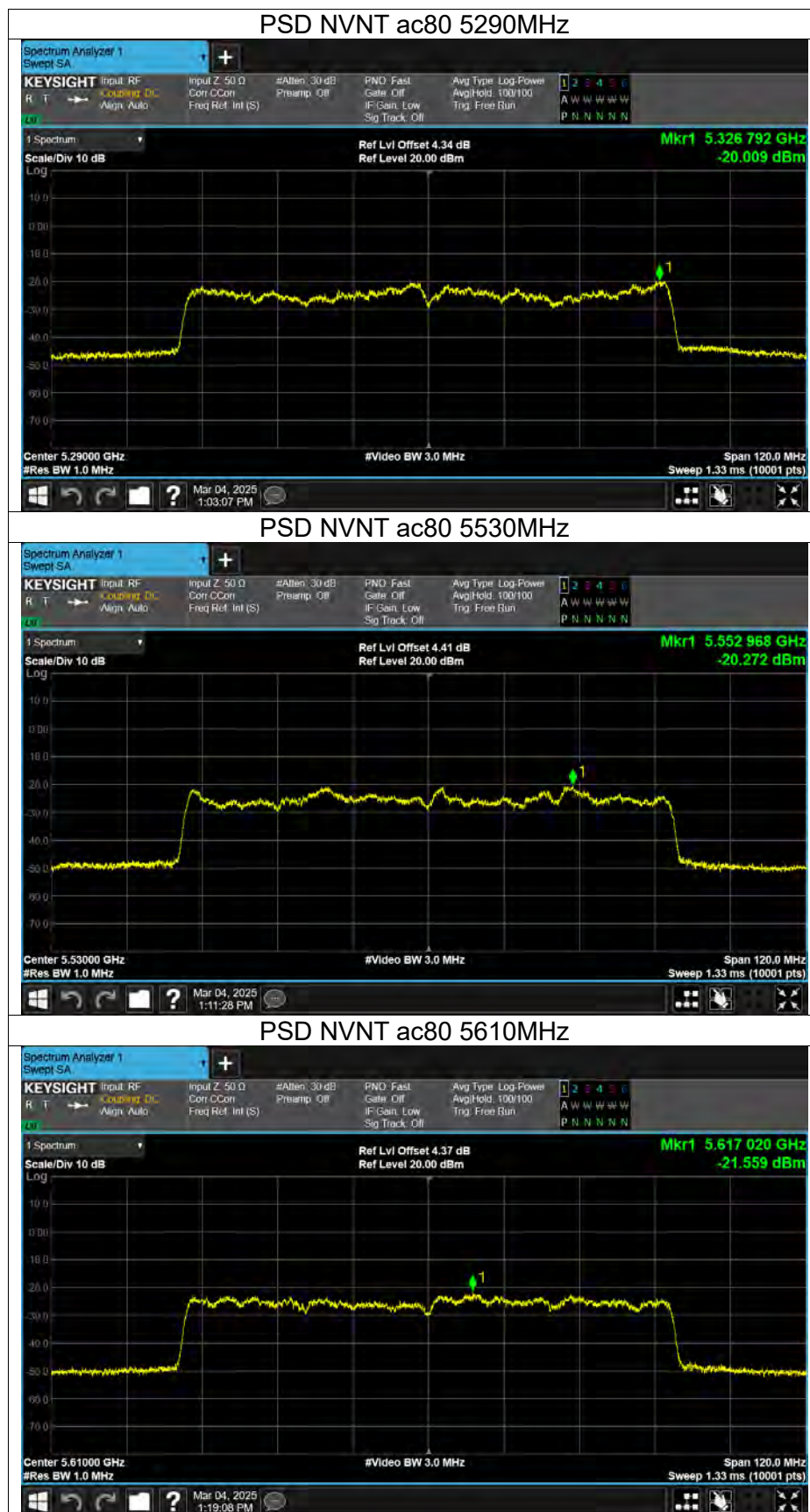














Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	-29.32	-27	Pass
NVNT	a	5240	-42.02	-27	Pass
NVNT	a	5260	-39.97	-27	Pass
NVNT	a	5320	-33.28	-27	Pass
NVNT	a	5500	-35.58	-27	Pass
NVNT	a	5700	-28.81	-27	Pass
NVNT	n20	5180	-31.59	-27	Pass
NVNT	n20	5240	-41.78	-27	Pass
NVNT	n20	5260	-38.7	-27	Pass
NVNT	n20	5320	-29.85	-27	Pass
NVNT	n20	5500	-33.59	-27	Pass
NVNT	n20	5700	-29.45	-27	Pass
NVNT	n40	5190	-28.43	-27	Pass
NVNT	n40	5230	-40.86	-27	Pass
NVNT	n40	5270	-38.78	-27	Pass
NVNT	n40	5310	-27.8	-27	Pass
NVNT	n40	5510	-29.11	-27	Pass
NVNT	n40	5550	-41.2	-27	Pass
NVNT	n40	5670	-40.79	-27	Pass
NVNT	ac20	5180	-28.46	-27	Pass
NVNT	ac20	5240	-41.91	-27	Pass
NVNT	ac20	5260	-39.48	-27	Pass
NVNT	ac20	5320	-29.12	-27	Pass
NVNT	ac20	5500	-33.45	-27	Pass
NVNT	ac20	5700	-29.58	-27	Pass
NVNT	ac40	5190	-27.83	-27	Pass
NVNT	ac40	5230	-41.36	-27	Pass
NVNT	ac40	5270	-39.47	-27	Pass
NVNT	ac40	5310	-27.73	-27	Pass
NVNT	ac40	5510	-32.96	-27	Pass
NVNT	ac40	5550	-41.12	-27	Pass
NVNT	ac40	5670	-39.22	-27	Pass
NVNT	ac80	5210	-28.2	-27	Pass
NVNT	ac80	5290	-28.19	-27	Pass
NVNT	ac80	5530	-31.56	-27	Pass
NVNT	ac80	5610	-40.49	-27	Pass



Test Graphs

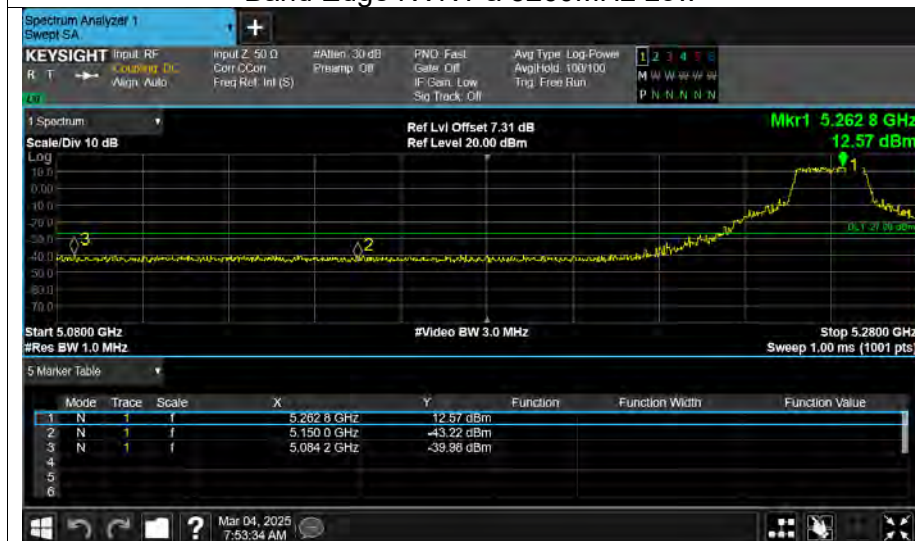
Band Edge NVNT a 5180MHz Low

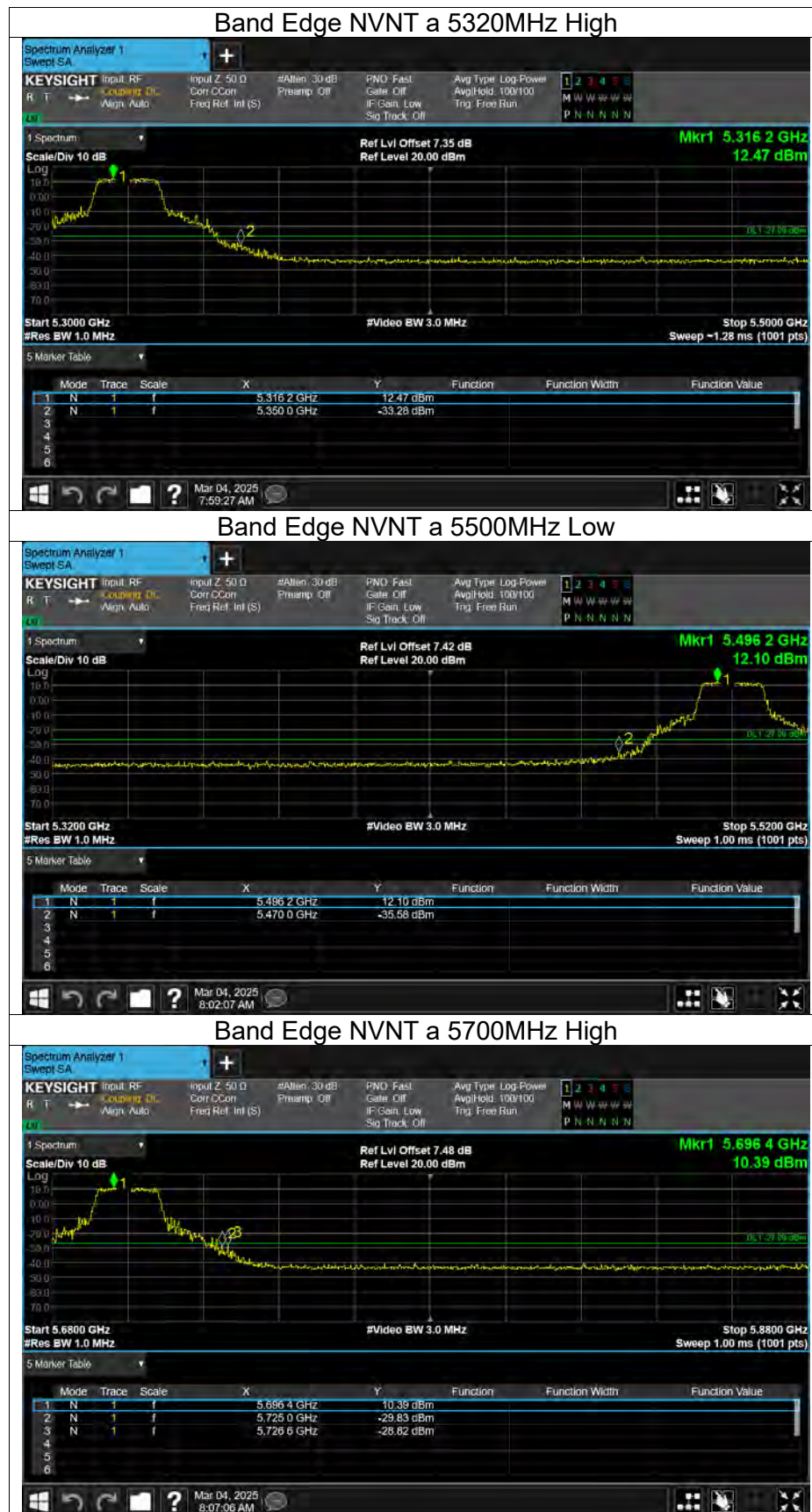


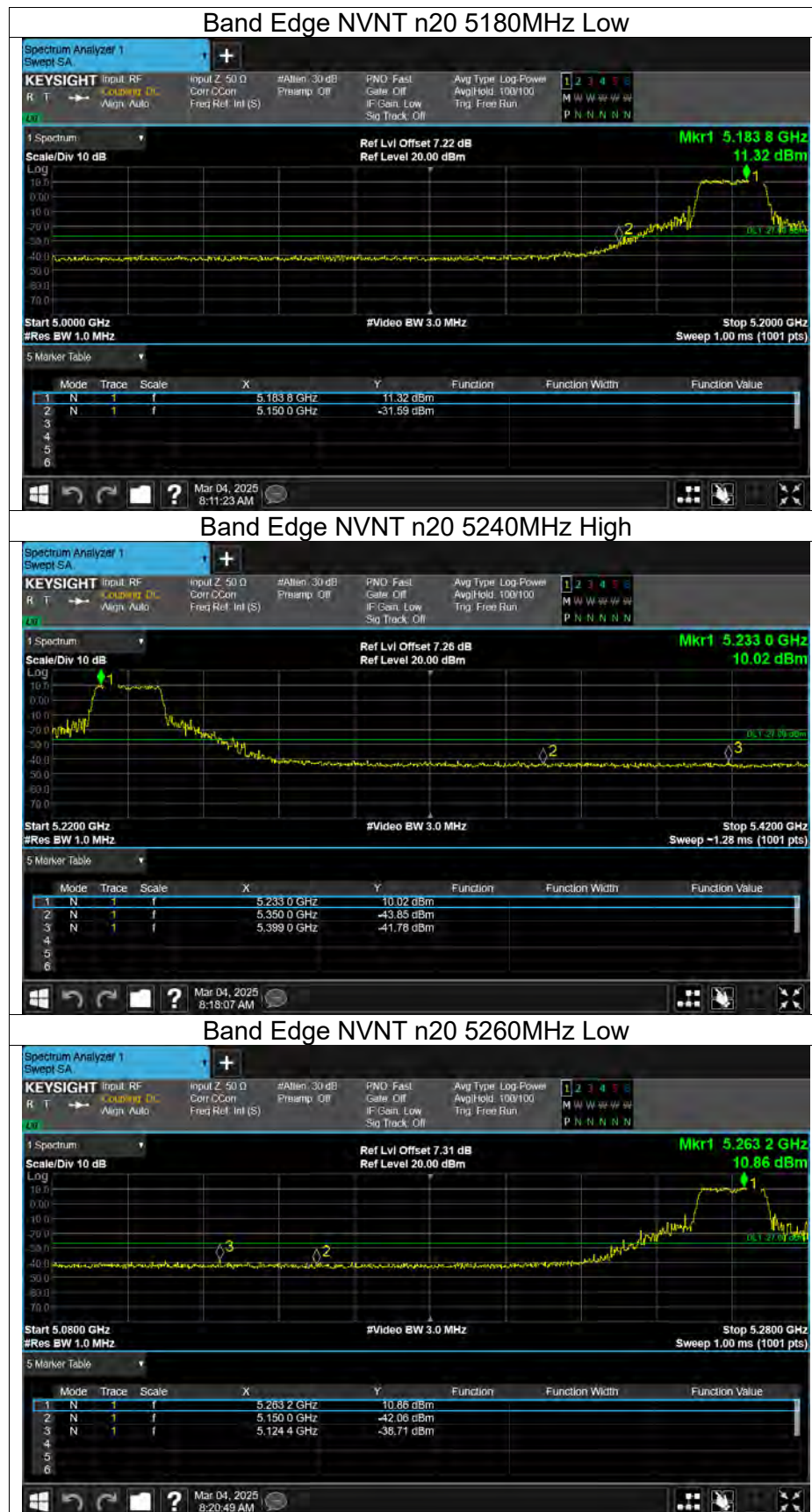
Band Edge NVNT a 5240MHz High

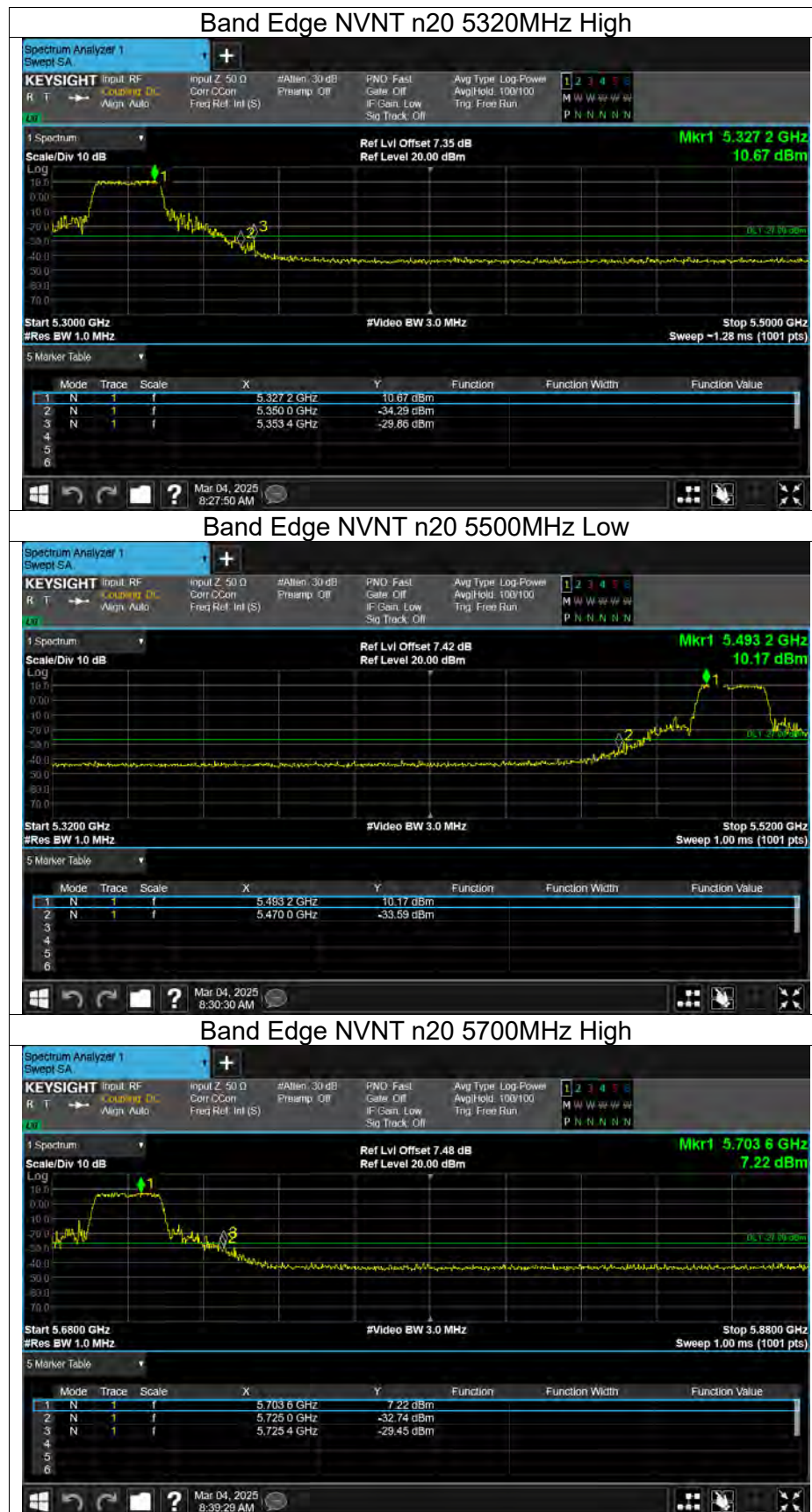


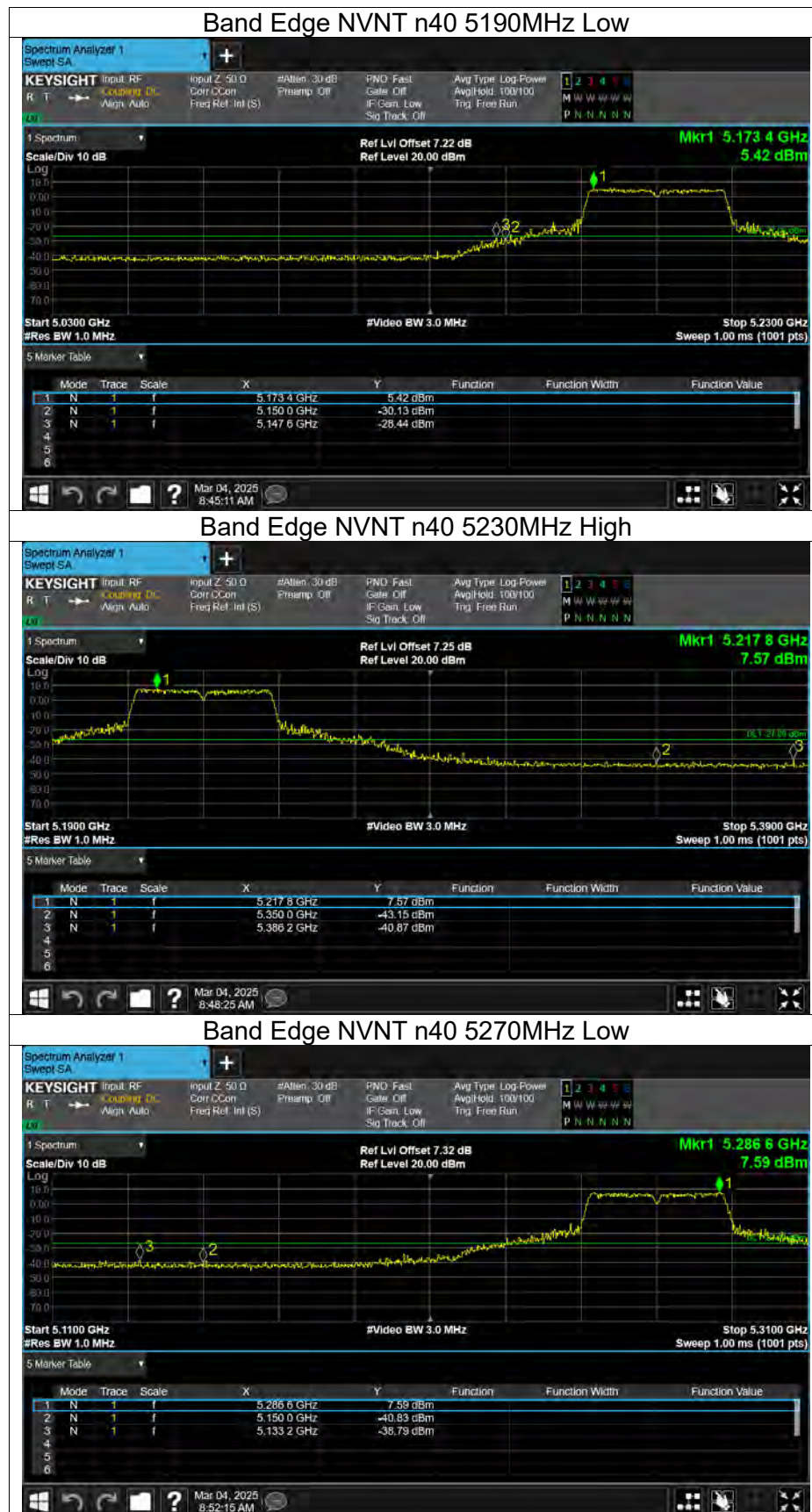
Band Edge NVNT a 5260MHz Low



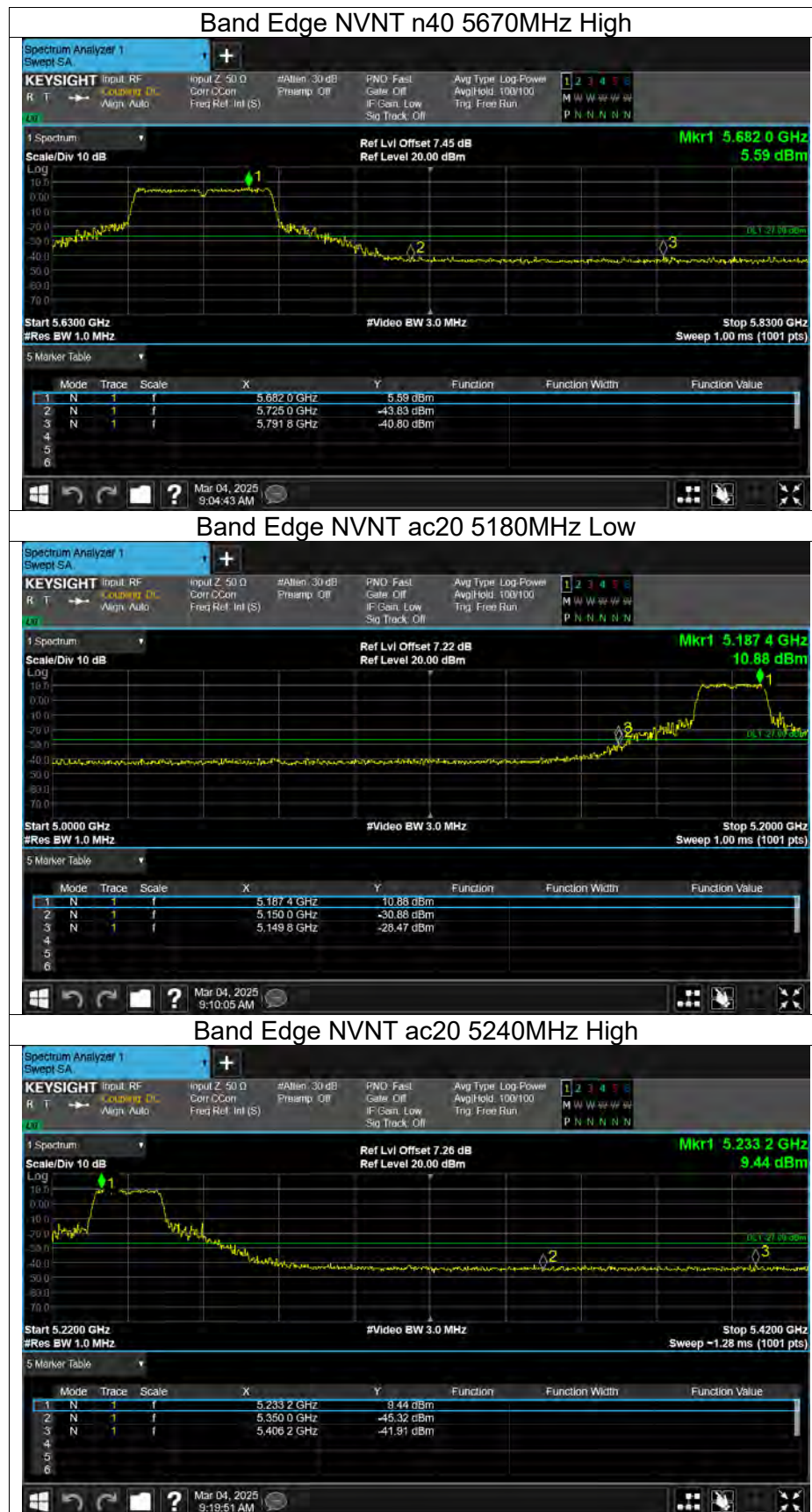
















Band Edge NVNT ac20 5700MHz High

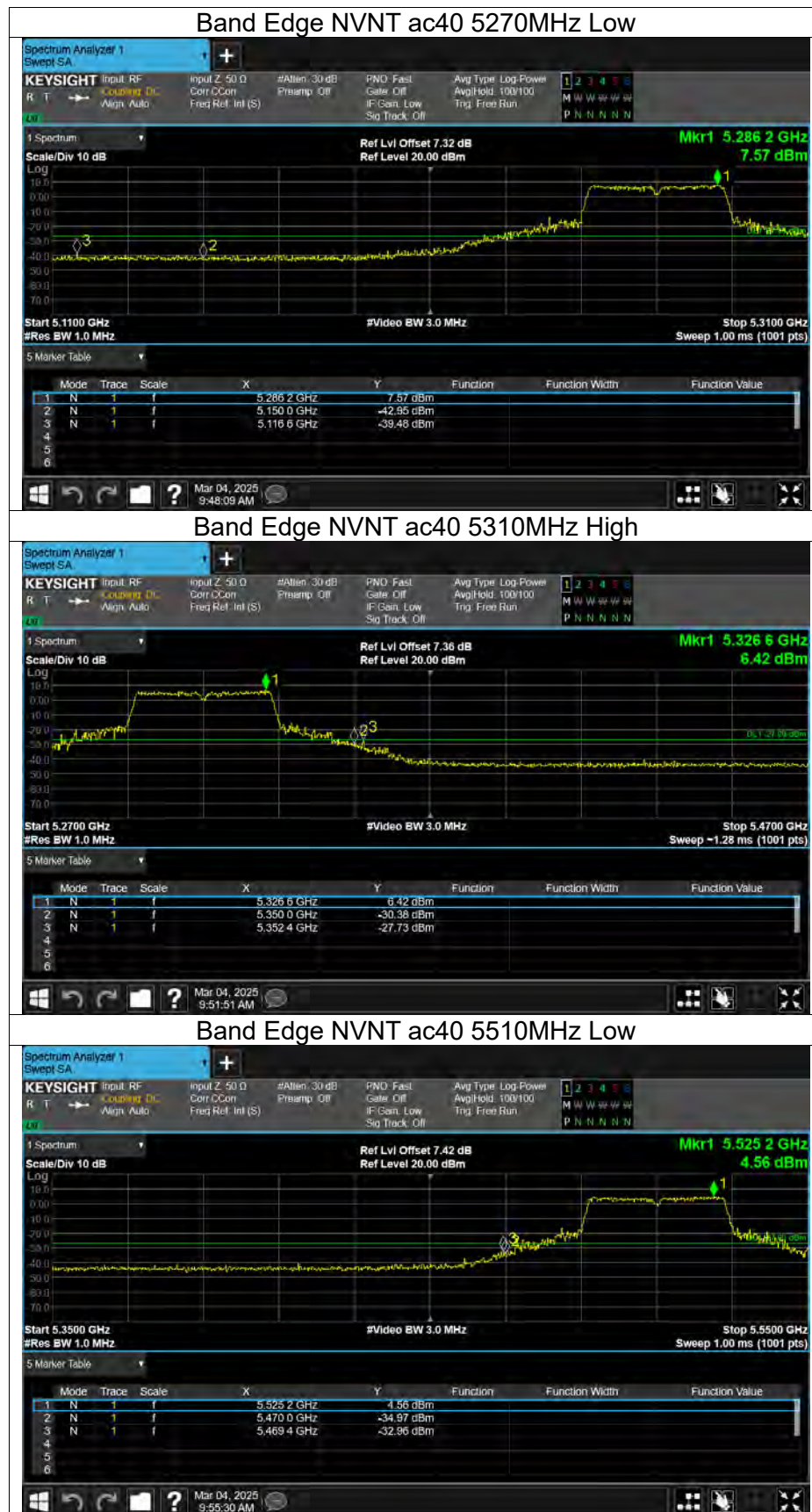


Band Edge NVNT ac40 5190MHz Low



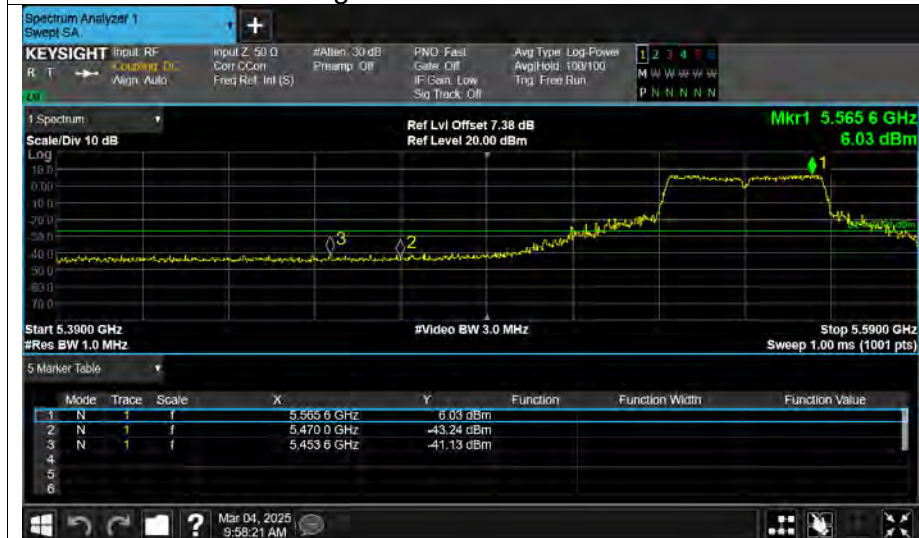
Band Edge NVNT ac40 5230MHz High







Band Edge NVNT ac40 5550MHz Low



Band Edge NVNT ac40 5670MHz High



Band Edge NVNT ac80 5210MHz Low





Band Edge NVNT ac80 5290MHz High



Band Edge NVNT ac80 5530MHz Low



Band Edge NVNT ac80 5610MHz High





APPENDIX II - MEASUREMENT PHOTOS

Note: Please see the attached RF_Test Setup photos for FCC ID.



APPENDIX III - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Note: Please see LGT25B044EM01_APPENDIX II.

※※※※※END OF THE REPORT※※※※※