

TEST REPORT

Report No.: BCTC2508685576-3E

Applicant: Shenzhen Efercro Electronic Technology Co., Ltd.

Product Name: Tablet

Test Model: C107

Tested Date: 2025-09-03 to 2025-10-31

Issued Date: 2025-11-05



Shenzhen BCTC Technology Co., Ltd.



Product Name: Tablet

Trademark: N/A

Model/Type Reference: C107
A10, A10PRO, A10L, C109, C108, C109L, C10, C10L, C11, C12, C13, KT1028, KT1026, KT1016, A10Max, A10S

Prepared For: Shenzhen Efercro Electronic Technology Co., Ltd.

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Prepared By: Shenzhen BCTC Technology Co., Ltd.

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Sample Received Date: 2025-09-01

Sample Tested Date: 2025-09-03 to 2025-10-31

Report No.: BCTC2508685576-3E

Test Standards: ARIB STD-T71 Ver.6.1
Article2 Paragraph 1, item 19-3
MIC Notice No.88 Appendix No.45

Test Results: PASS

Remark: This is JAPAN RADIO test report.

Tested by:



Eric Yang/Project Handler

Approved by:



Sewen Guo/Reviewer

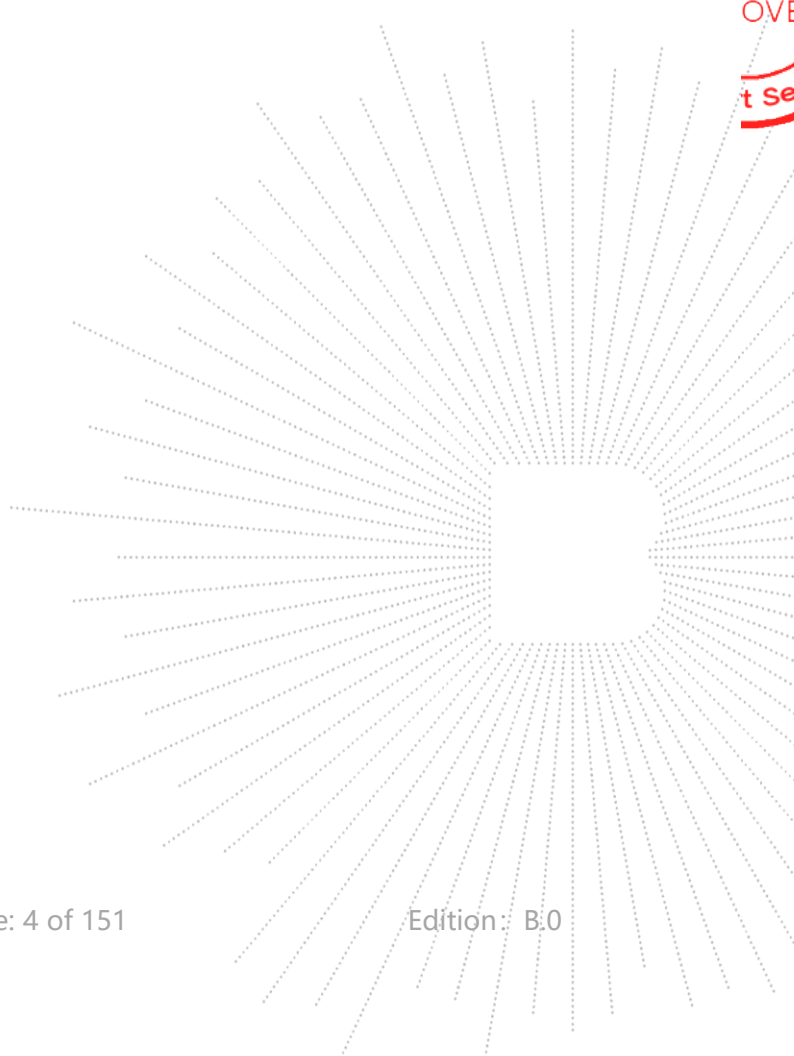
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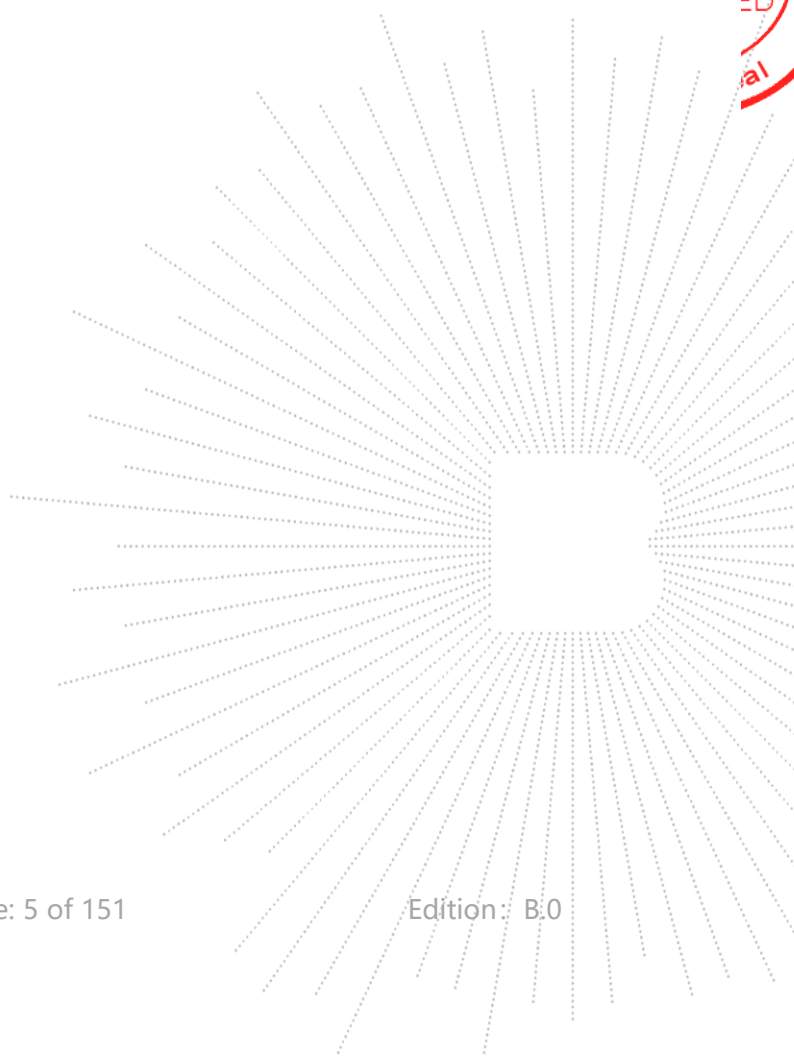
(Note: N/A Means Not Applicable)



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1. Version

Report No.	Issue Date	Description	Approved
BCTC2508685576-3E	2025-11-05	Original	Valid



2. Test Summary

Test procedures according to the technical standards:

Article 49-20	
Description of Test	Result
Frequency Error	Complies
Occupied Bandwidth (99%)	Complies
Unwanted Emission Intensity	Complies
Antenna Power and Tolerance	Complies
Secondary Radiated Emissions	Complies
Transmitter Burst Length	Complies
Interference Prevention Function	Complies
Carrier Sense Capability	Complies
Adjacent Channel Emitted Power	Complies
Out-Band Leakage Power	Complies
Construction Protection Confirmation	Complies

NOTE:

1. MIC Notice No.88 Appendix No.45
2. MIC Ordinance Regulating Radio Equipment Section 4.17 of Article 49.20

3. Measurement Uncertainty

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

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.2\text{dB}$
2	Radiated Emission Test	$\pm 4.7\text{dB}$
3	RF power, conducted	$\pm 0.16\text{dB}$
4	Spurious emissions, conducted	$\pm 0.21\text{dB}$
5	All emissions, radiated(<1G)	$\pm 4.68\text{dB}$
6	All emissions, radiated(>1G)	$\pm 5.0\text{dB}$
7	frequency error ppm	$\pm 0.5\text{ppm}$

4. Product Information And Test Setup

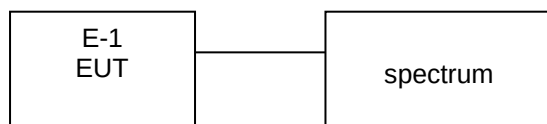
4.1 Product Information

Model/Type Reference:	C107 A10, A10PRO, A10L, C109, C108, C109L, C10, C10L, C11, C12, C13, KT1028, KT1026, KT1016, A10Max, A10S
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	863C_MB_V2.8
Software Version:	V1.0
Wi-Fi Specification:	802.11a/n/ac/ax(20MHz channel bandwidth) 802.11n/ac/ax(40MHz channel bandwidth) 802.11ac/ax(80MHz channel bandwidth)
Operation Frequency:	5180MHz-5240MHz for 802.11a/n20/ac20/ax20; 5190MHz-5230MHz for 802.11n40/ac40/ax40; 5210MHz for 802.11 ac80/ax80;
Rated RF Output Power Density	802.11a: 1 mW/MHz ; 802.11n20: 1 mW/MHz; 802.11 n40: 1 mW/MHz; 802.11 ac20: 1 mW/MHz; 802.11 ac40: 1 mW/MHz; 802.11 ac80: 0.5 mW/MHz; 802.11 ax20: 1 mW/MHz; 802.11 ax40: 1 mW/MHz; 802.11 ax80: 0.5 mW/MHz;
Conducted Power Density	802.11a: 0.86 mW/MHz ; 802.11n20: 0.62 mW/MHz; 802.11 n40: 0.45 mW/MHz; 802.11 ac20: 0.75 mW/MHz; 802.11 ac40: 0.45 mW/MHz; 802.11 ac80: 0.43 mW/MHz 802.11 ax20: 0.75 mW/MHz; 802.11 ax40: 0.61 mW/MHz; 802.11 ax80: 0.33 mW/MHz
Type of Modulation:	OFDMA/OFDM
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40): MCS0-MCS15; 802.11ac(VHT20)/ax(HE20): NSS1, MCS0-MCS8 802.11ac VHT40/VHT80)/ax(HE40/HE80):NSS1, MCS0-MCS9
Number Of Channel:	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/ax80 in the 5210MHz band;
Antenna installation:	FPC antenna
Antenna Gain:	1.68 dBi Remark: ☒ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☐ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 3.8V

Adapter:

Model: G50-US-0502000
Input:100-240V~, 0.35A Max 50/60Hz
Output: 5.0V 2.0A 10.0W
Shenzhen ChengGuo Technngtogy Co., Ltd
MADE IN CHINA

4.2 Block Digram Parameters Of Text Software Setting



4.3 Description Of Support Units (Conducted Mode)

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Tablet	N/A	C107	N/A	EUT

Notes:

1. The support equipment was authorized by Declaration of Confirmation.
2. For detachable type I/O cable should be specified the length in cm in 『Length』 column
3. “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

4.4 Channel List

802.11a/n/ac/ax (20MHz) Frequency Channel			
Channel	Frequency (GHz)	Channel	Frequency (GHz)
36	5.180	44	5.220
40	5.200	48	5.240

802.11n/ac/ax (40MHz) Frequency Channel			
Channel	Frequency (GHz)	Channel	Frequency (GHz)
38	5.190	45	5.230

802.11ac/av(80MHz) Frequency Channel			
Channel	Frequency (GHz)	Channel	Frequency (GHz)
42	5.210	\	\

4.5 Test Mode

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description	
Mode 1	CH36	802.11a
Mode 2	CH40	
Mode 3	CH48	
Mode 4	RX	
Mode 5	CH36	802.11n20
Mode 6	CH40	
Mode 7	CH48	
Mode 8	RX	
Mode 9	CH38	802.11n40
Mode 10	CH45	
Mode 11	RX	
Mode 12	CH36	802.11ac20/ax20
Mode 13	CH40	
Mode 14	CH48	
Mode 15	RX	
Mode 16	CH38	802.11ac40/ax40
Mode 17	CH45	
Mode 18	RX	
Mode 19	CH42	802.11ac80/ax80
Note: This prototype does not support RU mode.		

4.6 Test Conditions

The devices was tested while in a continuous transmitter/receiver mode.
The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input AC Power	3.8V	4.18V	3.42V
Voltage Variation (%)	0%	+10%	-10%

Note:

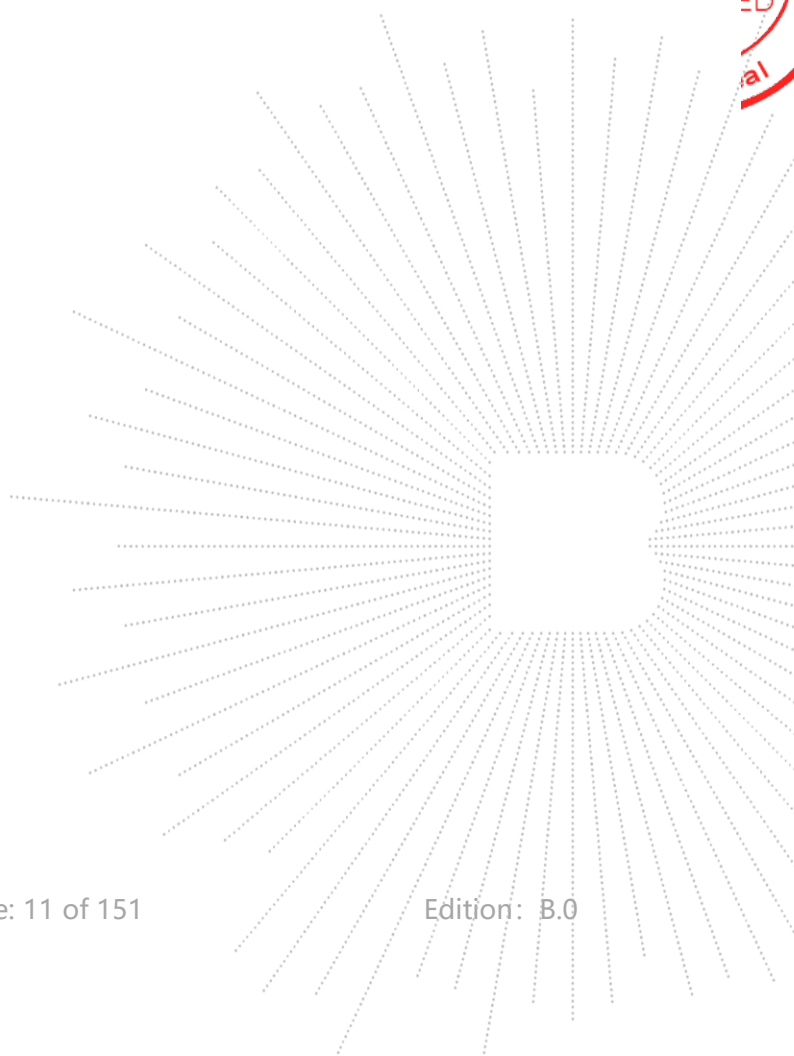
Voltage Variation (%)= (Output high or Low Voltage - Output Normal Voltage)/ Output Normal Voltage* 100

During the input supply voltage to the EUT from the external power source is varied by $\pm 10\%$, $\pm 10\%$ of the external power change, will not affect the voltage of the RF, so only operated in normal voltage to test all regulations.

4.7 Table Of Parameters Of Test Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	AIC8800DCDW_wifi_test		
Parameters	DEF	DEF	DEF
Frequency	5180 MHz	5190 MHz	5200MHz
Parameters	DEF	DEF	DEF
Frequency	5210 MHz	5230 MHz	5240MHz



5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Technology Co., Ltd. Address:101M., Unit 1, Building1, Pengyuan, No.18, Lilang Road, Shanglilang Community, Nanwan Street, Longgang District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

5.2 Test Instrument Used

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Spectrum Analyzer	Keysight	N9020A	MY51287403	Aug.30, 2025	Aug.29, 2026
Signal Generator	Keysight	N5182A	MY50144088	Aug.30, 2025	Aug.29, 2026
Power Sensor	MWRFTest	MW100-RFCB	\	Aug.30, 2025	Aug.29, 2026
Radio frequency control box	MWRFTest	MW100-RFCB	\	\	\
Software	Frad	EZ-EMC	FA-03A2 RE	\	\
Software	Keysight	Keysight.ETSL Test system	1.02.05	\	\
D.C. Power Supply	LongWei	D-41747 Viersen	6230316	Aug.30, 2025	Aug.29, 2026
Communication test set	R&S	CMW500	157483	Aug.30, 2025	Aug.29, 2026
Programmable constant temperature and humidity test chamber	Auchno	OJN-9606-408 L	19120183	July.9, 2025	July.8, 2026
Temperature & humidity gauge	\	HTC-1	\	Sep.1, 2025	Aug.31, 2026

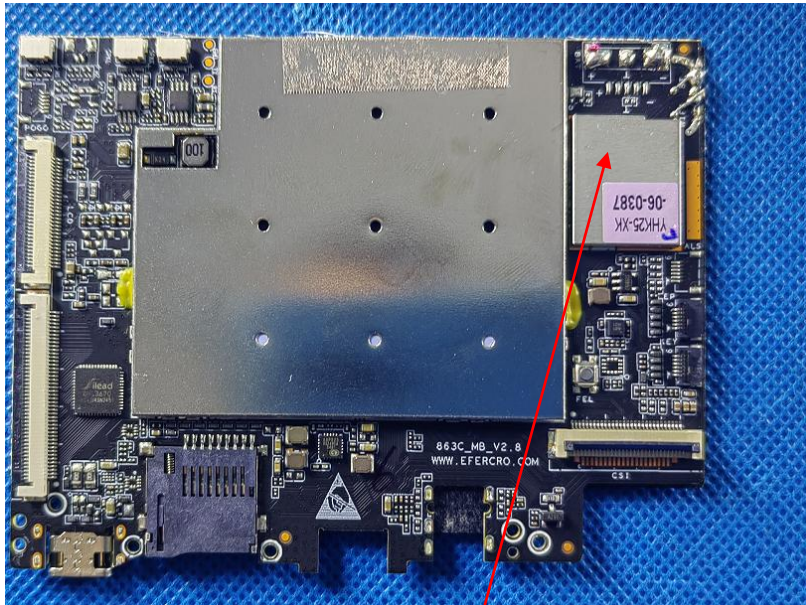
Calibration laboratory: CCIC(Shenzhen) Co., Ltd

6. RF Shielding Method

Chipset:

The product structure is uses SMD patch process.

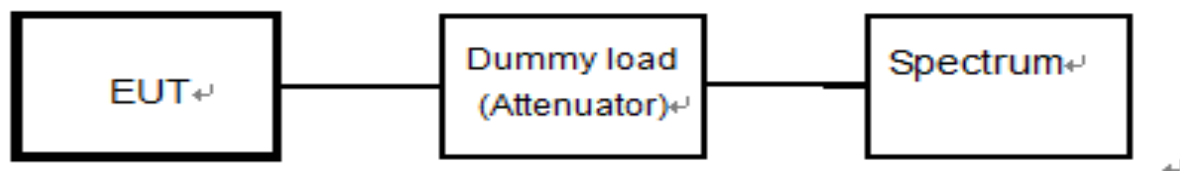
As shown in the picture, If the will be open so the product be damage.



RF module shielding

7. Frequency Error

7.1 Block Diagram Of Test Setup



7.2 Limit

Item	Limits
Frequency Error	±20ppm

7.3 Measuring Instruments And Setting

The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	30KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.4 Test Procedure

(1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.

(2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.

(3) In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.

(4) In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.

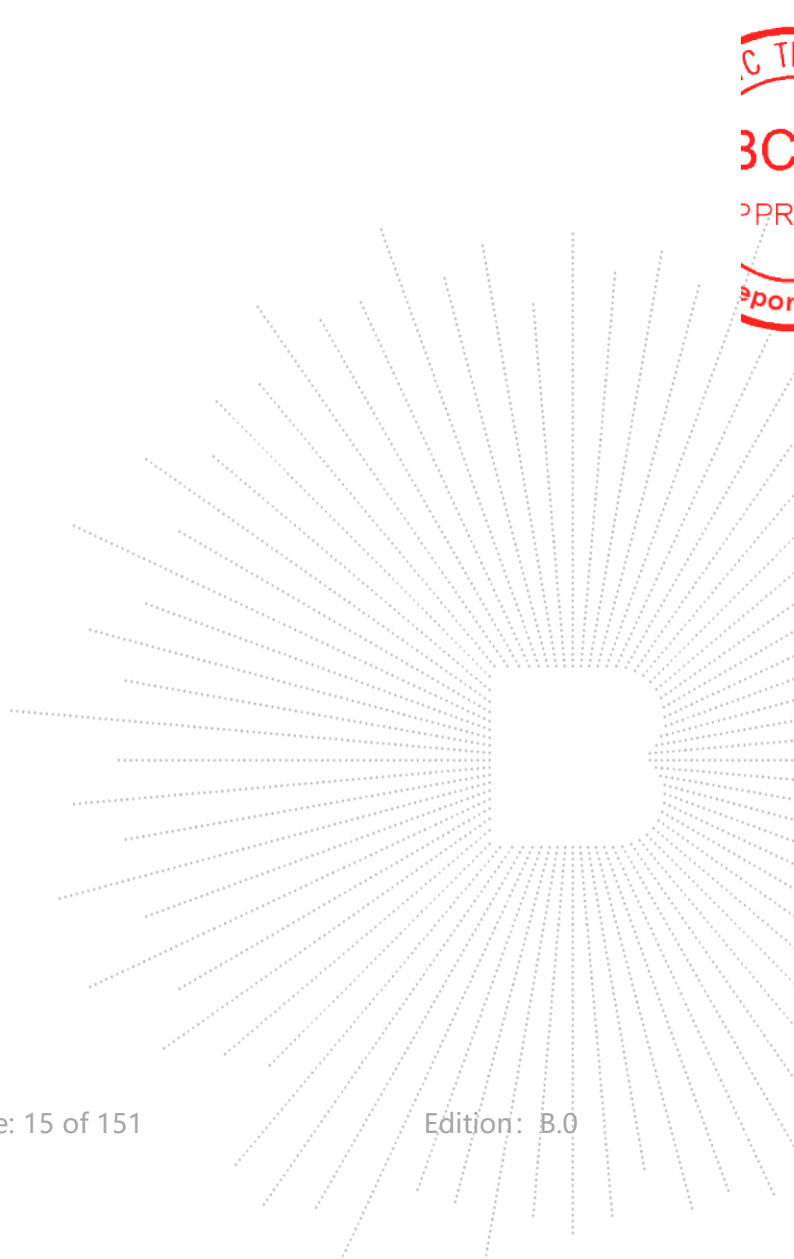
In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized).

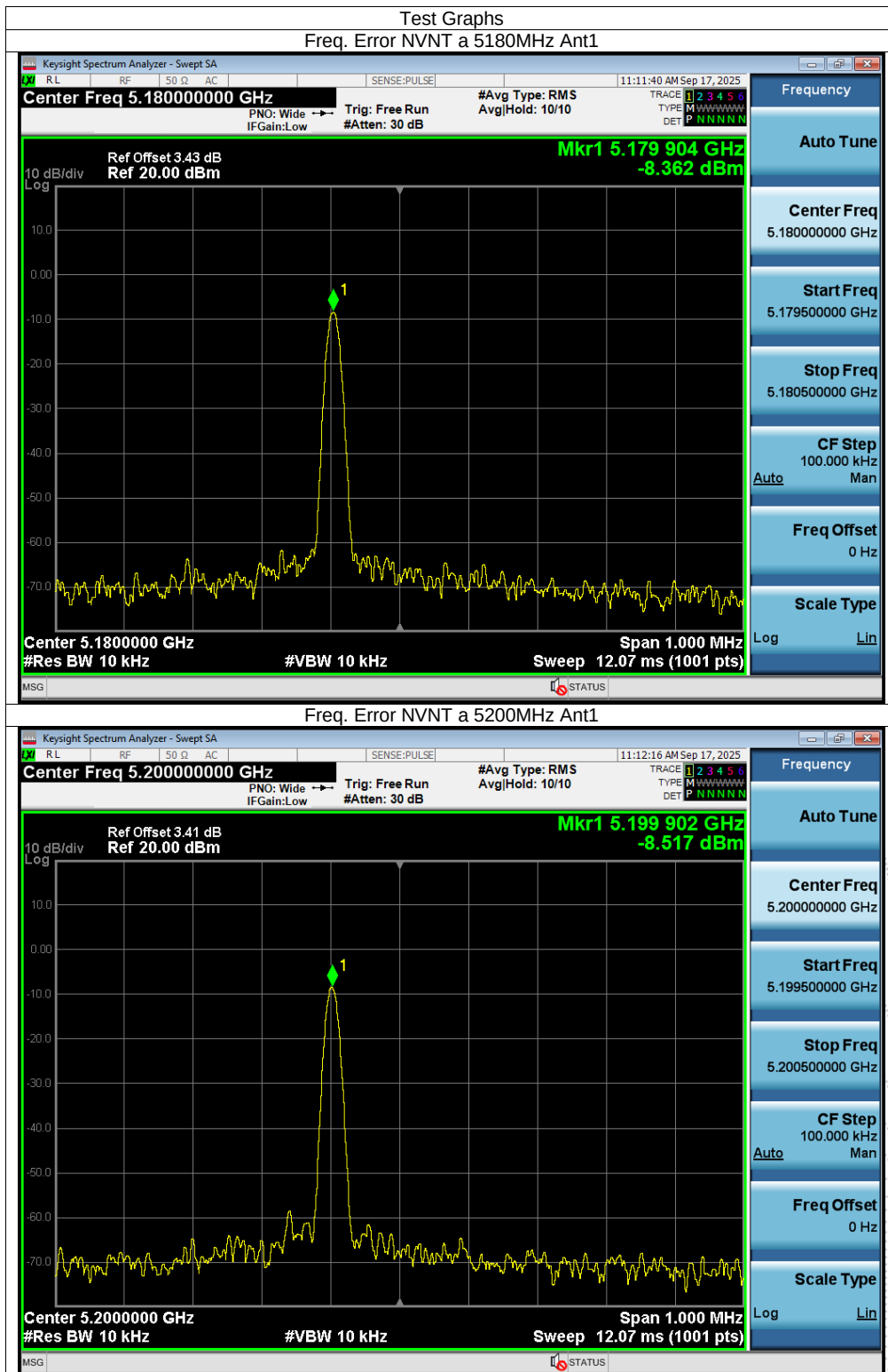
That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

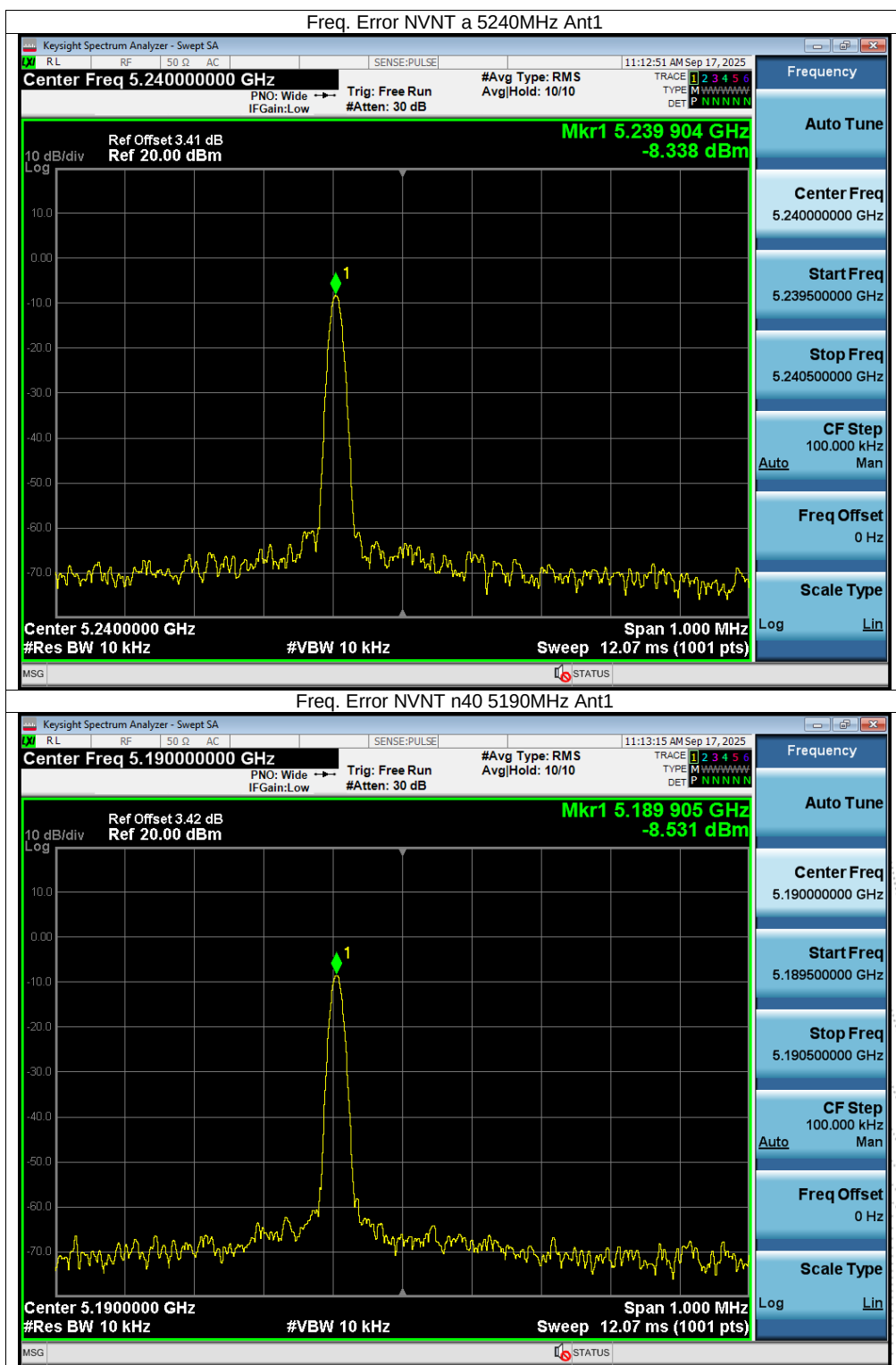
7.5 Test Result

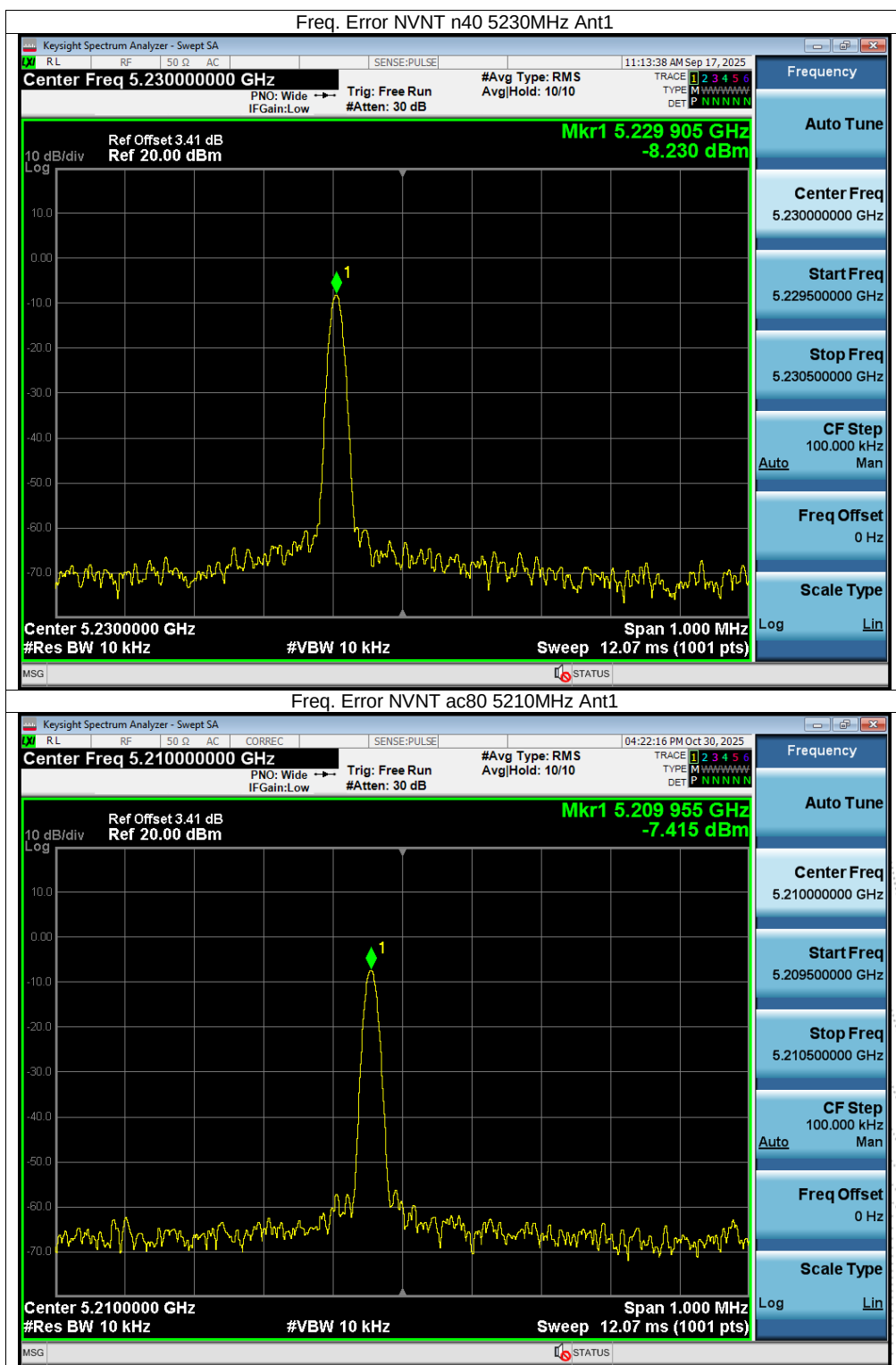
Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.8V

Condition	Mode	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	5179.904	-96000	-18.53	20	Pass
NVNT	a	5200	5199.902	-98000	-18.85	20	Pass
NVNT	a	5240	5239.904	-96000	-18.32	20	Pass
NVNT	n40	5190	5189.905	-95000	-18.3	20	Pass
NVNT	n40	5230	5229.905	-95000	-18.16	20	Pass
NVNT	ac80	5210	5209.955	-45000	-8.64	20	Pass





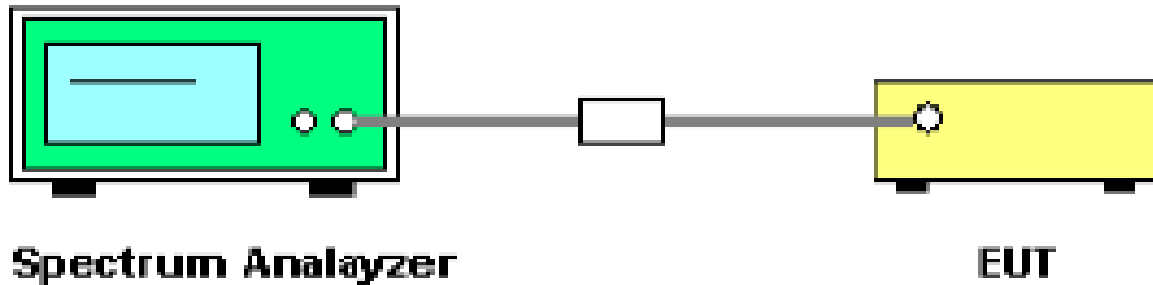




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8. Antenna Power

8.1 Block Diagram Of Test Setup



8.2 Limit

Item	Limits
Antenna Power	802.11a20/n20/ac20 $\leq 10\text{mW/MHz}$ 802.11n40/ac40 $\leq 5\text{mW/MHz}$ 802.11ac80 $\leq 2.5\text{mW/MHz}$
Antenna Power tolerance	+20%, -80% (Base on manufacturer declare antenna power density)

8.3 Measuring Instruments And Setting

The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.4 Test Procedure

1. EUT Connect the to the spectrum analyzer.
2. Adjust the spectrum analyzer to have the center frequency the same with the measured carrier. RBW=VBW=1MHz, detector mode is positive peak. Turn off the averaging function and use zero span.
3. The calibrating signal power shall be reduced to 0 dBm and it shall be verified that the power meter reading also reduces by 10 dB.
- 4 . Connect the equipment to be measured. Using the following settings of the spectrum analyzer in combination with "max hold" function, find the frequency of highest power output in the power envelope: center frequency equal to operating frequency; RBW & VBW: 1 MHz; detector mode: positive peak; averaging: off; span: 3 times the spectrum width; amplitude: adjust for middle of the instrument' range. The frequency found shall be recorded.
- 5 . Set the center frequency of the spectrum analyzer to the found frequency and switch to zero span. The power meter indicates the measured power density "E".
6. Calculate antenna power density by the formula below $PD = Pt + 10 \cdot \log(1/x)$.
x: The duty cycle of the EUT in continuously transmitting mode Pt: Output power of the SSG
7. Antenna Power Error is definition that actual measure antenna power tolerance between + 20% to - 80% power range that base on manufacturer declare the conducted power density.

8.5 Test Result

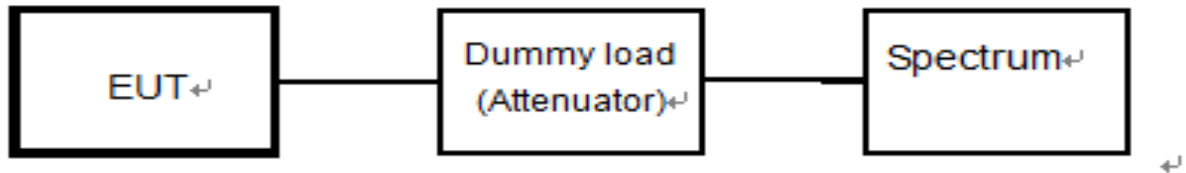
Temperature:	26°C		
Humidity:	54%RH	Test Voltage	DC 3.8V
Condition:	NVNT		

Mode	Frequency (MHz)	Power (dBm/ MHz)	Antenna Power (mW/ MHz)	Rated power density (mW/ MHz)	Antenna Gain (dBi)	EIRP (mW/ MHz)	EIRP Limit (mW/ MHz)	Antenna Power Error (%)	Verdict
a	5180	-1.38	0.73	1	1.68	1.07	10	-27	Pass
a	5200	-0.78	0.83	1	1.68	1.23	10	-17	Pass
a	5240	-0.65	0.86	1	1.68	1.27	10	-14	Pass
n20	5180	-3	0.5	1	1.68	0.74	10	-50	Pass
n20	5200	-2.13	0.61	1	1.68	0.90	10	-39	Pass
n20	5240	-2.1	0.62	1	1.68	0.91	10	-38	Pass
n40	5190	-3.55	0.44	1	1.68	0.65	5	-56	Pass
n40	5230	-3.44	0.45	1	1.68	0.67	5	-55	Pass
ac20	5180	-1.72	0.67	1	1.68	0.99	10	-33	Pass
ac20	5200	-1.75	0.67	1	1.68	0.98	10	-33	Pass
ac20	5240	-1.23	0.75	1	1.68	1.11	10	-25	Pass
ac40	5190	-3.48	0.45	1	1.68	0.66	5	-55	Pass
ac40	5230	-3.42	0.45	1	1.68	0.67	5	-55	Pass
ac80	5210	-3.66	0.43	0.5	1.68	0.63	2.5	-14	Pass
ax20	5180	-1.25	0.75	1	1.68	1.10	10	-25	Pass
ax20	5200	-1.89	0.65	1	1.68	0.95	10	-35	Pass
ax20	5240	-1.57	0.70	1	1.68	1.03	10	-30	Pass
ax40	5190	-2.18	0.61	1	1.68	0.89	5	-39	Pass
ax40	5230	-2.56	0.55	1	1.68	0.82	5	-45	Pass
ax80	5210	-4.81	0.33	0.5	1.68	0.49	2.5	-34	Pass

Antenna Power Error Limit: +20%, -80% (Base on manufacturer declare antenna power density)

9. Occupied Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

Item	Limits
Occupied Bandwidth	Not exceed 20MHz(DSSS 20MHz system) 20MHz(OFDM 20MHz system), 40MHz(OFDM 40MHz system) , 80MHz(OFDM 80MHz system)

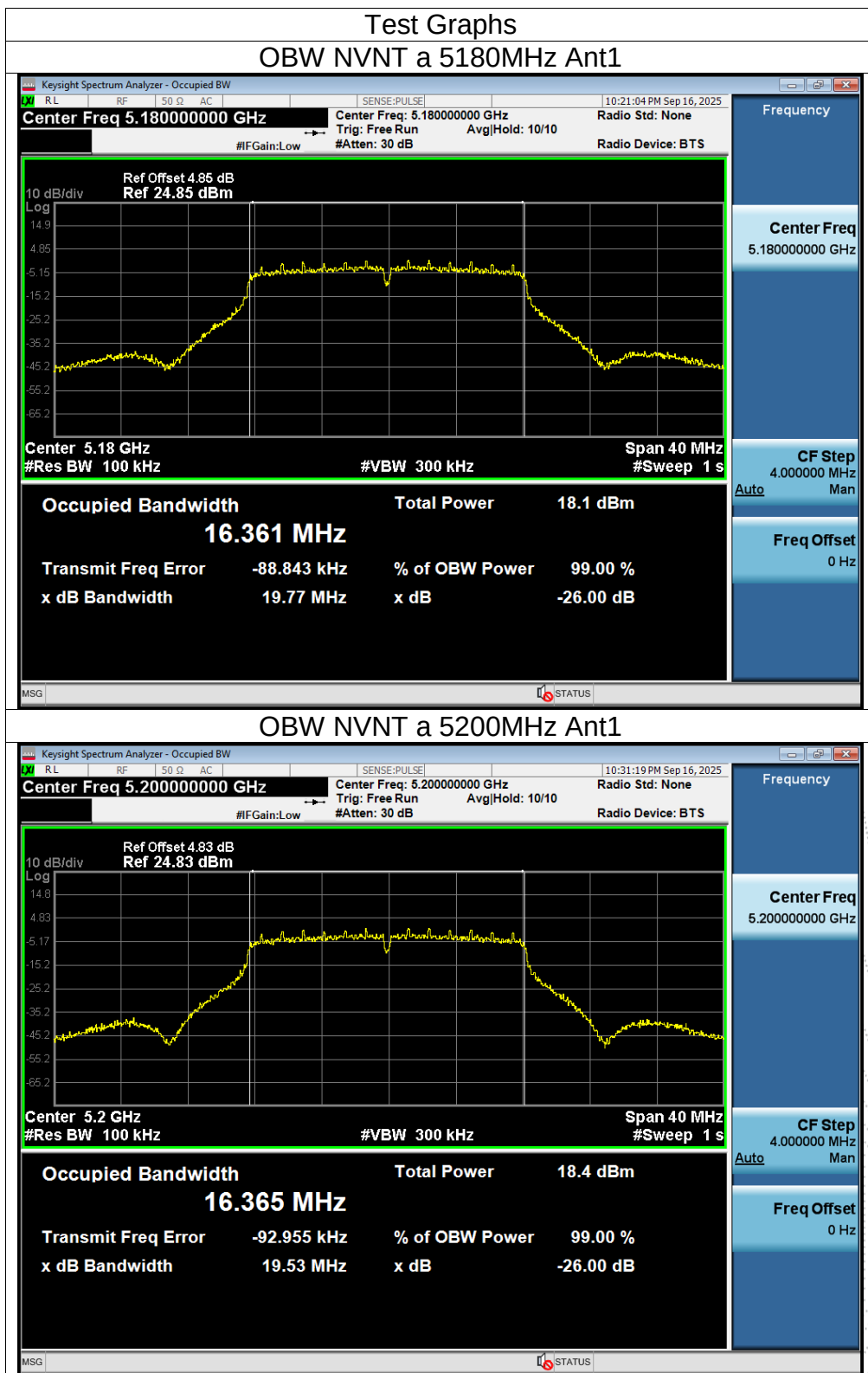
9.3 Test Procedure

- Setting of SA is following as: RB: 300kHz / VB:300kHz / SPAN: 3MHz / AT: 20dB Ref: 10dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode(For FHSS Device).

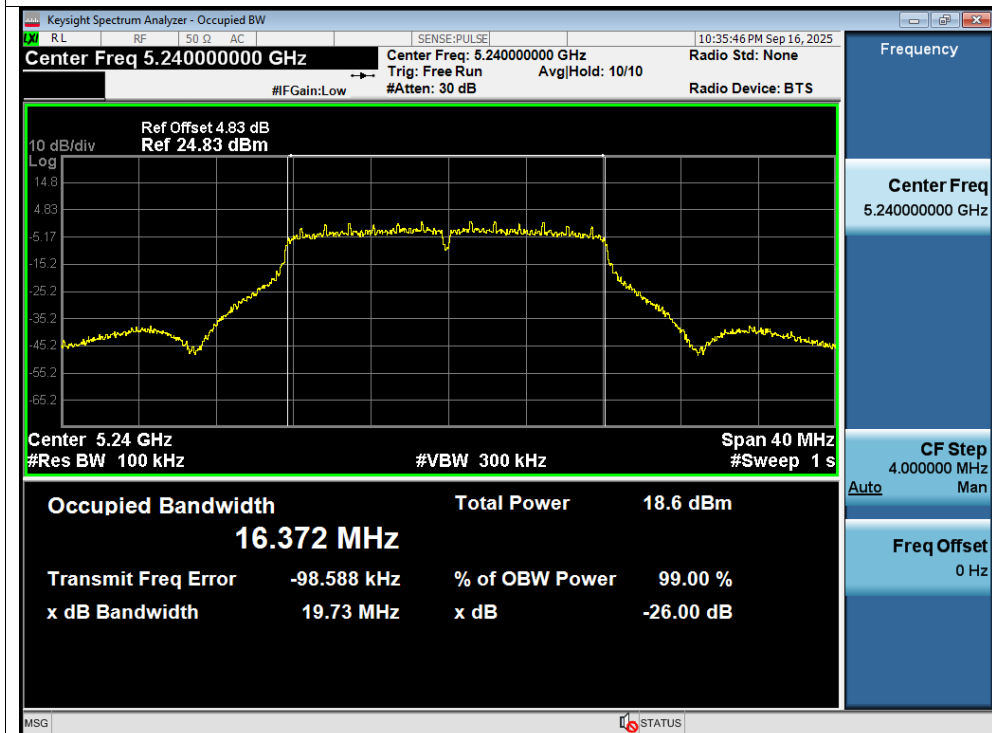
9.4 Test Result

Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.8V

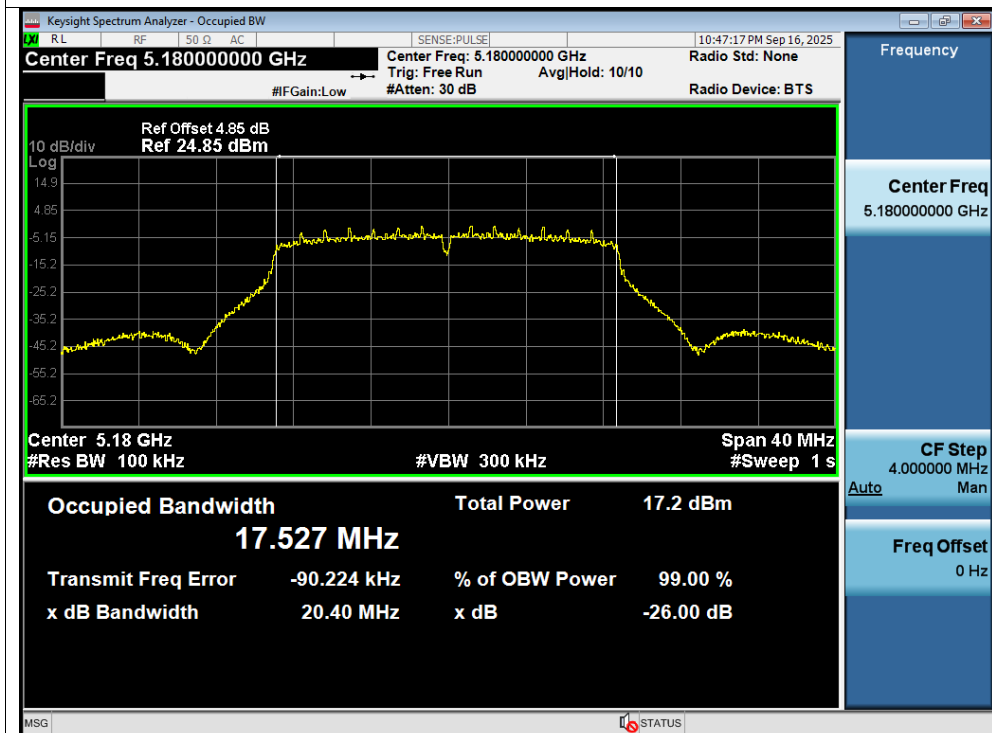
Condition	Mode	Frequency (MHz)	99% OBW (MHz)	90% OBW (MHz)	Limit (MHz)	Verdict
NVNT	a	5180	16.361	14.22	20	Pass
NVNT	a	5200	16.365	14.303	20	Pass
NVNT	a	5240	16.372	14.327	20	Pass
NVNT	n20	5180	17.527	15.109	20	Pass
NVNT	n20	5200	17.539	15.018	20	Pass
NVNT	n20	5240	17.55	15.131	20	Pass
NVNT	n40	5190	35.869	31.167	40	Pass
NVNT	n40	5230	35.881	31.331	40	Pass
NVNT	ac20	5180	17.536	15.138	20	Pass
NVNT	ac20	5200	17.545	15.141	20	Pass
NVNT	ac20	5240	17.551	15.255	20	Pass
NVNT	ac40	5190	35.872	31.014	40	Pass
NVNT	ac40	5230	35.872	31.167	40	Pass
NVNT	ac80	5210	75.446	67.511	80	Pass
NVNT	ax20	5180	18.763	15.934	20	Pass
NVNT	ax20	5200	18.763	16.059	20	Pass
NVNT	ax20	5240	18.784	16.109	20	Pass
NVNT	ax40	5190	37.456	32.321	40	Pass
NVNT	ax40	5230	37.445	32.549	40	Pass
NVNT	ax80	5210	77.369	69.334	80	Pass



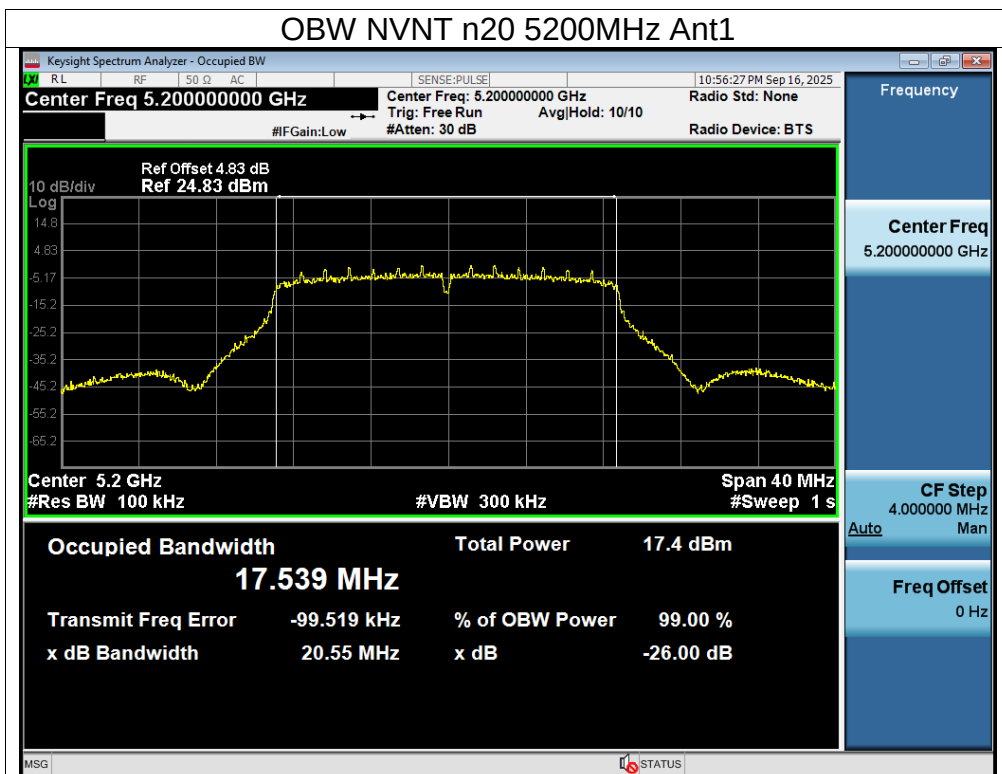
OBW NVNT a 5240MHz Ant1



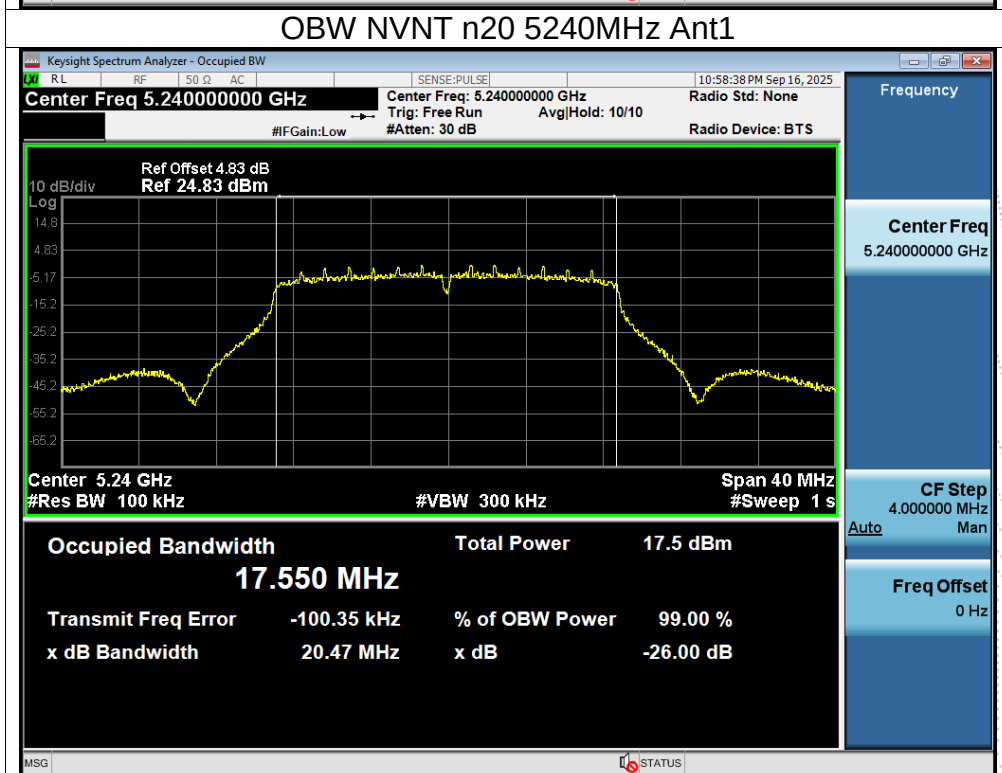
OBW NVNT n20 5180MHz Ant1



OBW NVNT n20 5200MHz Ant1



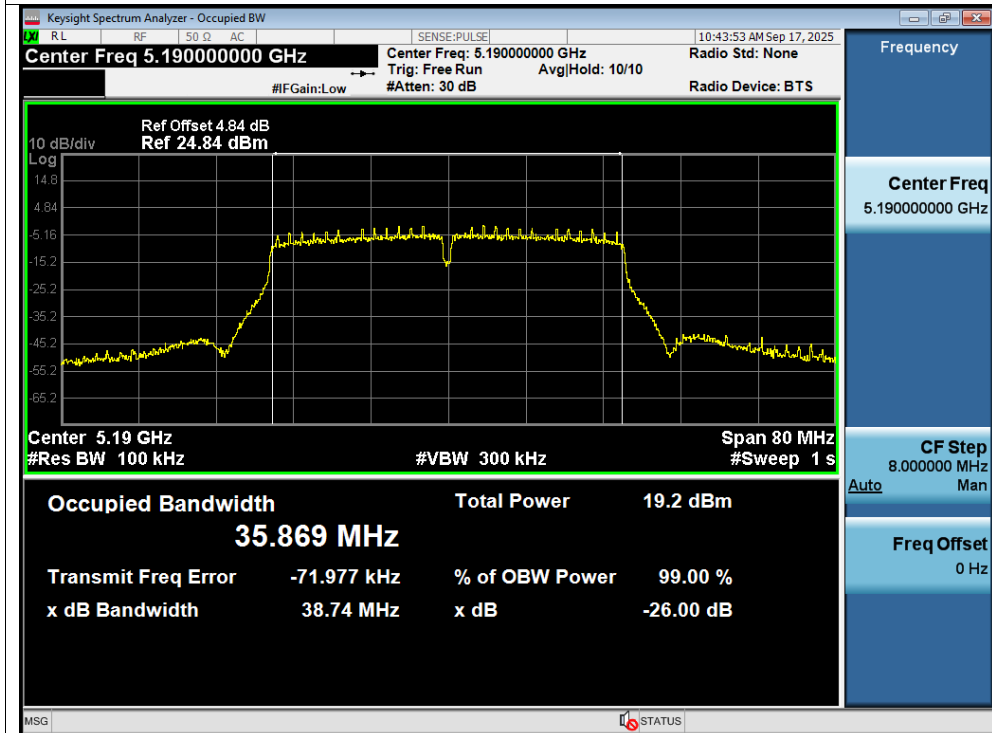
OBW NVNT n20 5240MHz Ant1



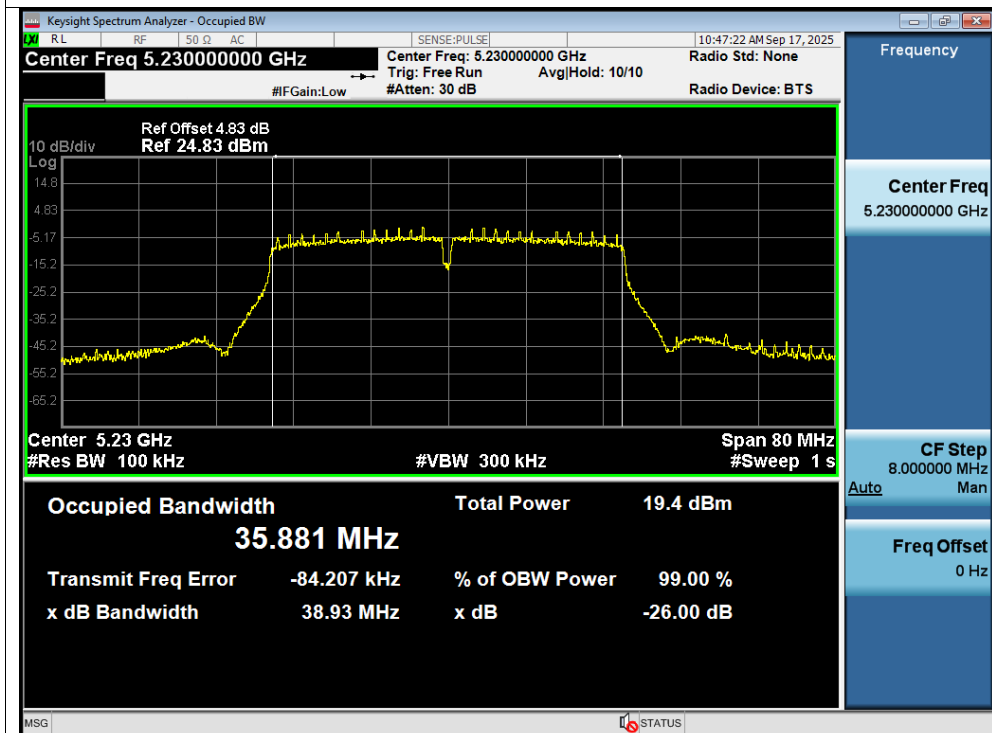
SHENZHEN



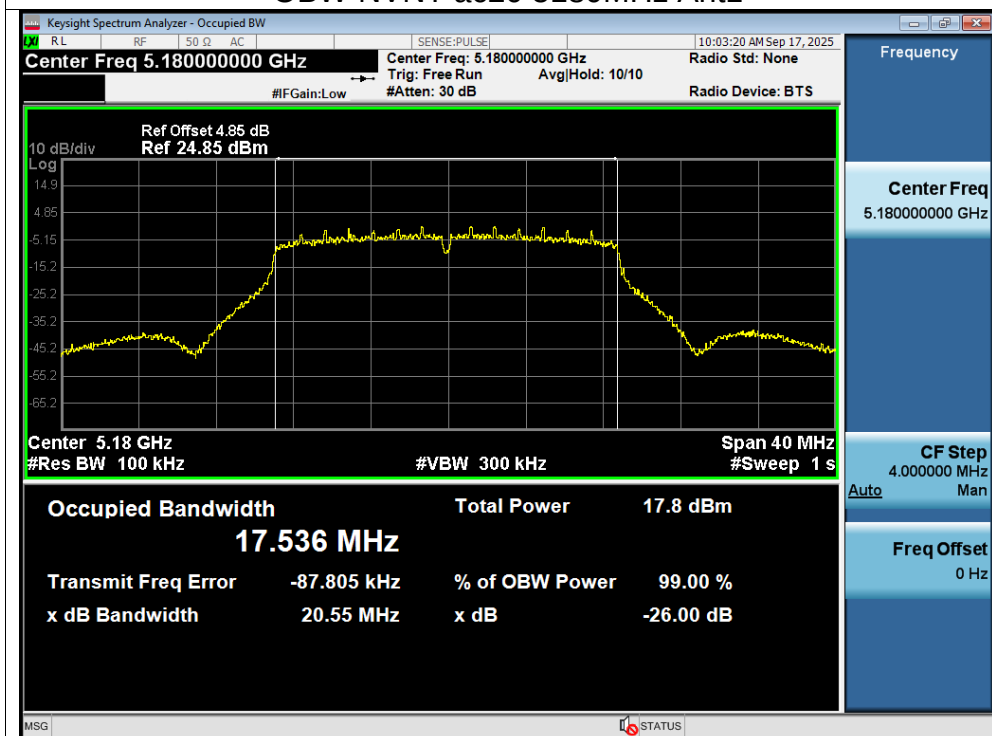
OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5230MHz Ant1



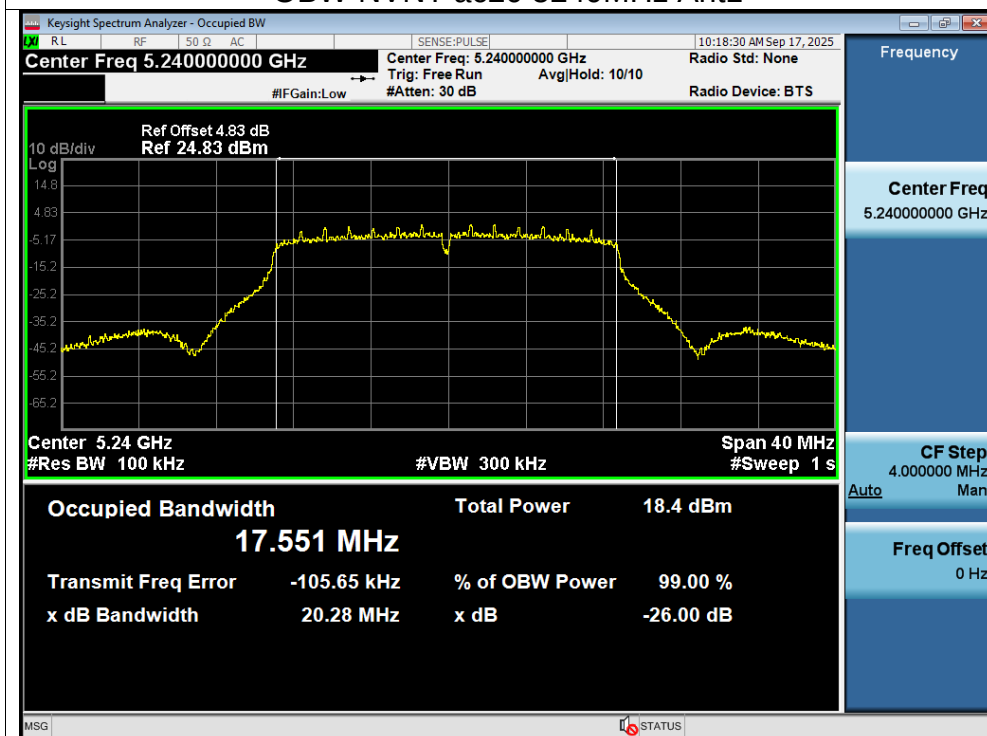
OBW NVNT ac20 5180MHz Ant1



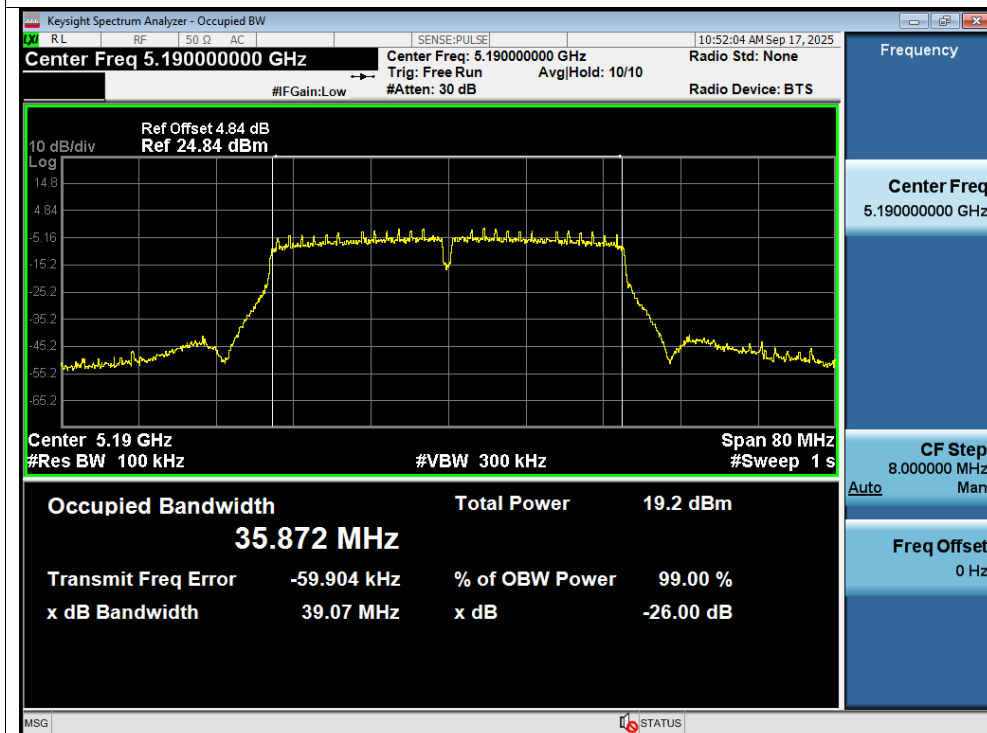
OBW NVNT ac20 5200MHz Ant1



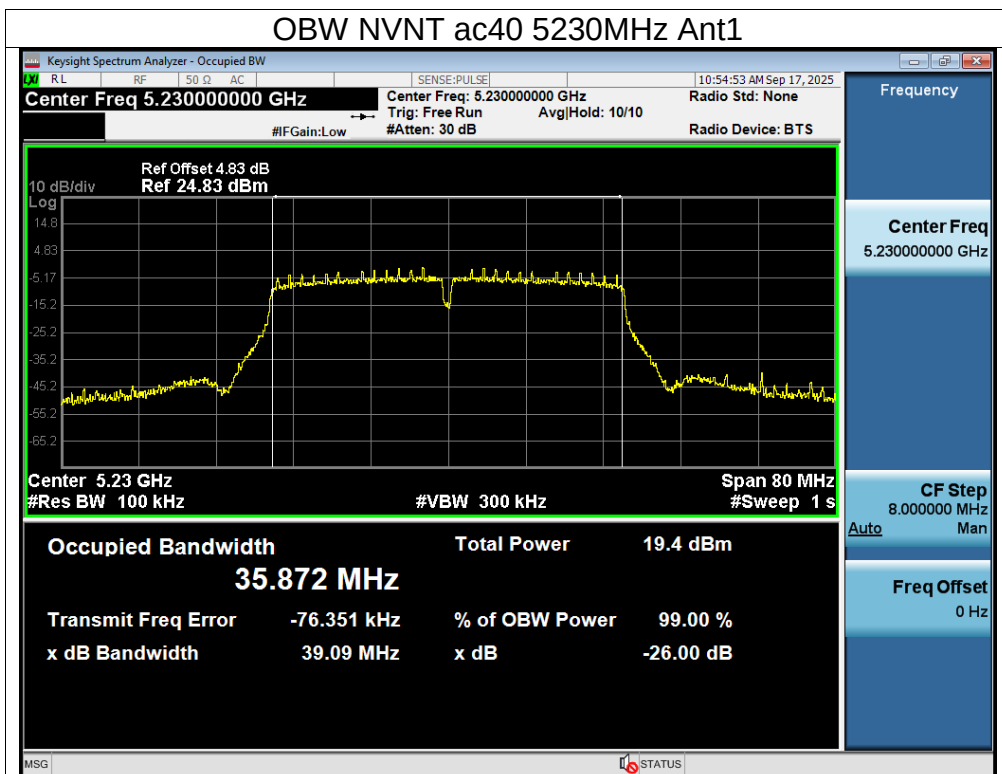
OBW NVNT ac20 5240MHz Ant1



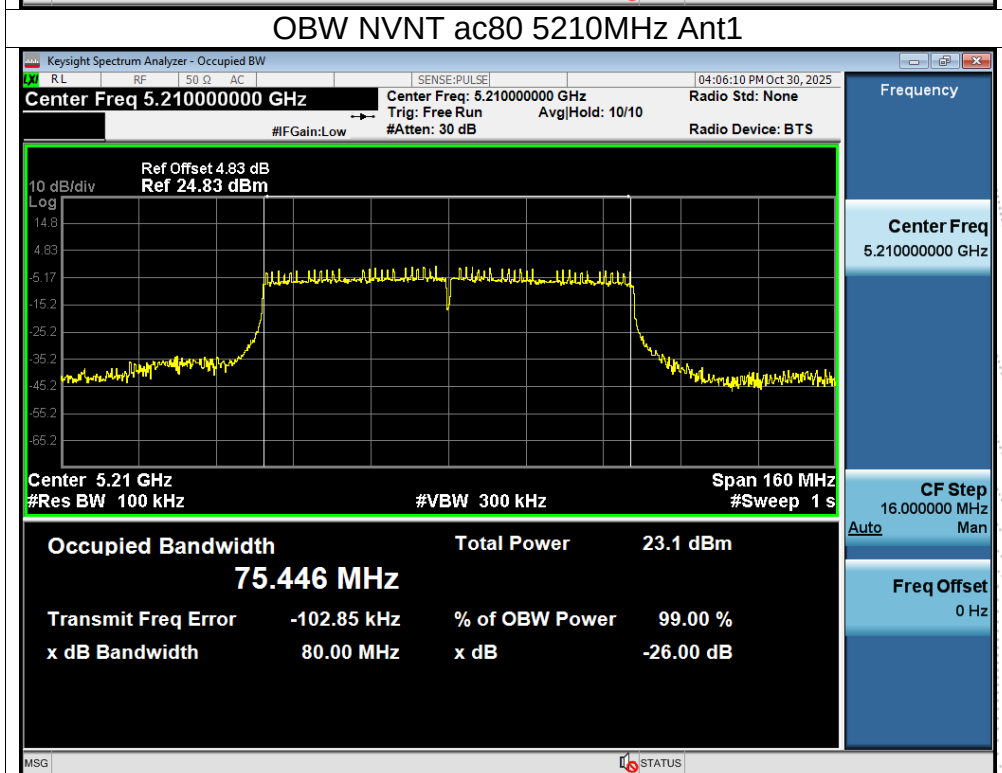
OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1

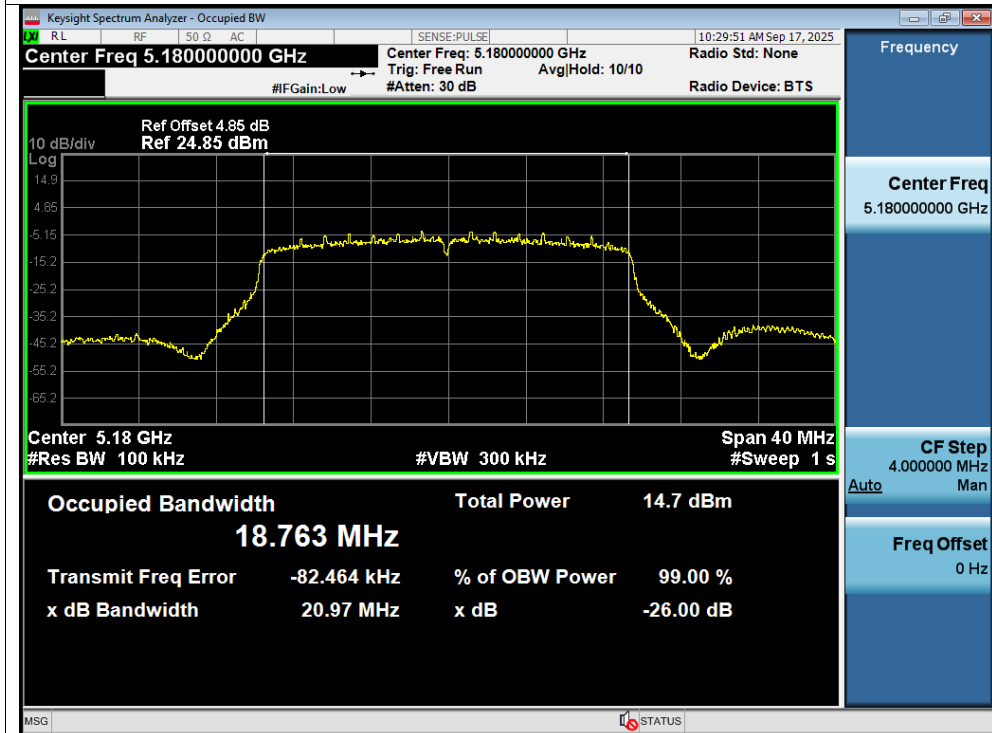


OBW NVNT ac80 5210MHz Ant1

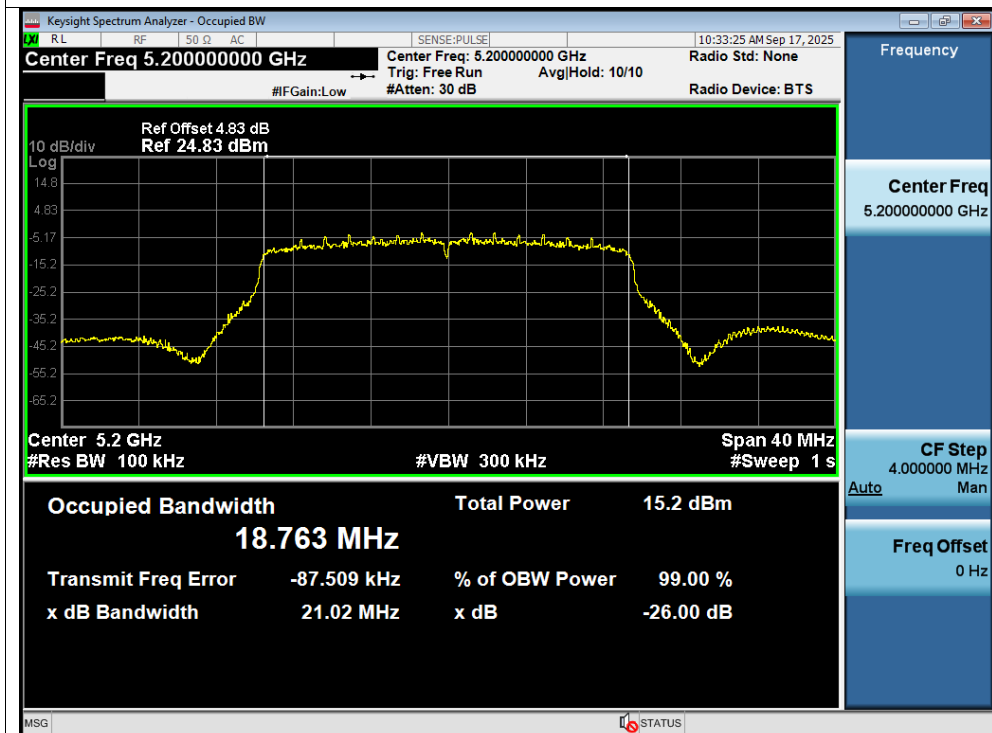




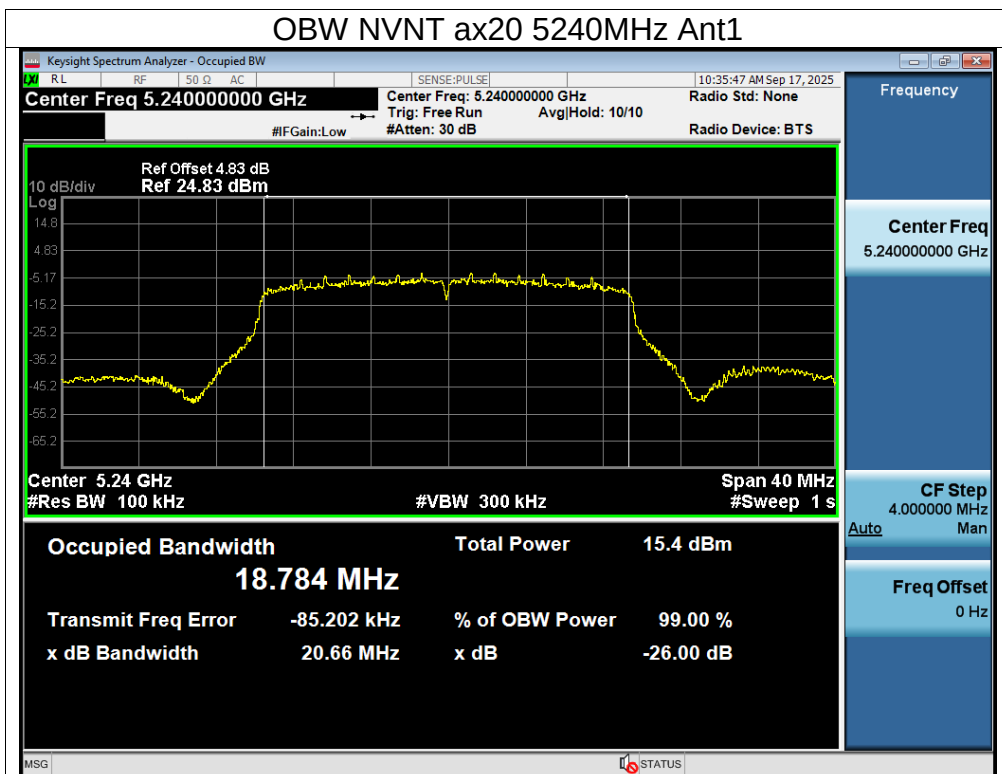
OBW NVNT ax20 5180MHz Ant1



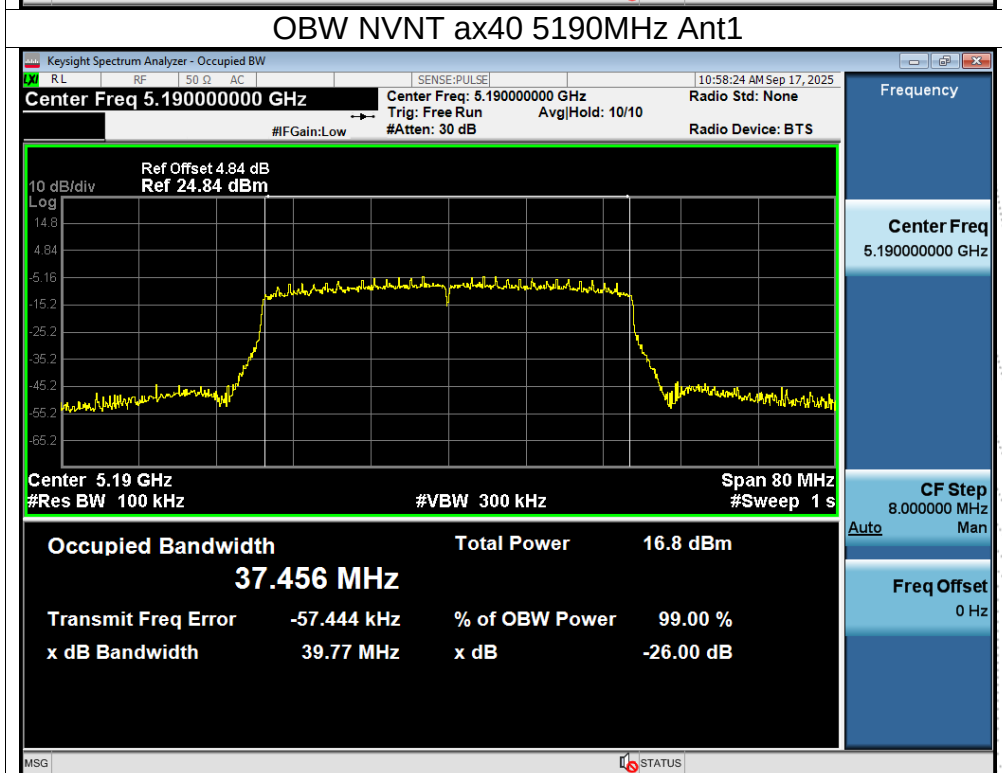
OBW NVNT ax20 5200MHz Ant1



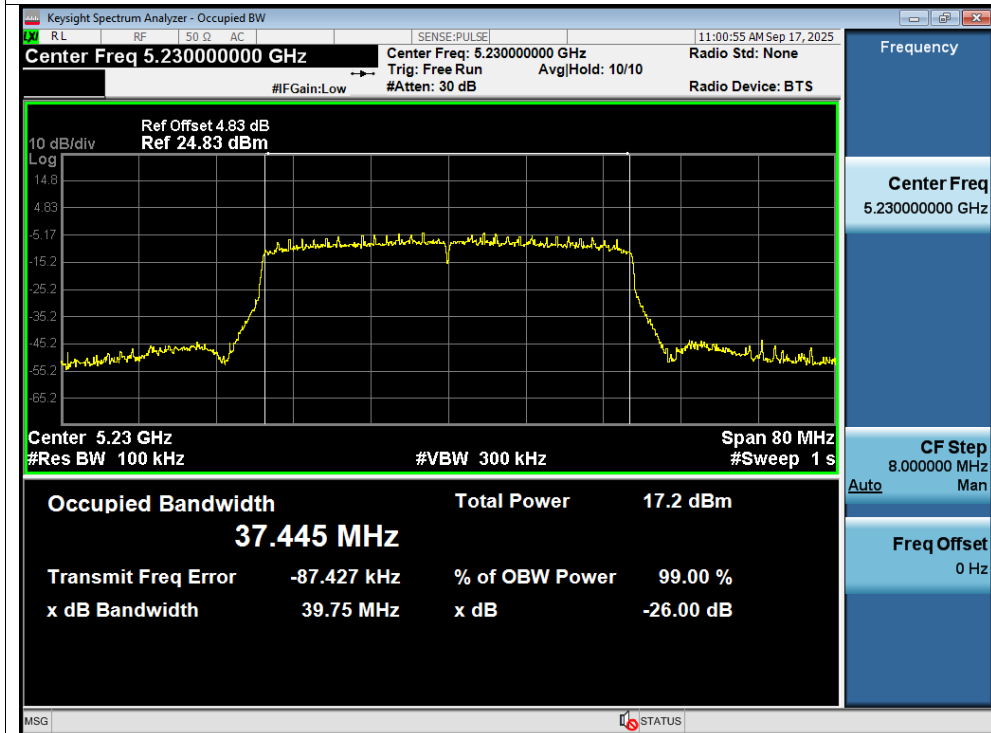
OBW NVNT ax20 5240MHz Ant1



OBW NVNT ax40 5190MHz Ant1



OBW NVNT ax40 5230MHz Ant1



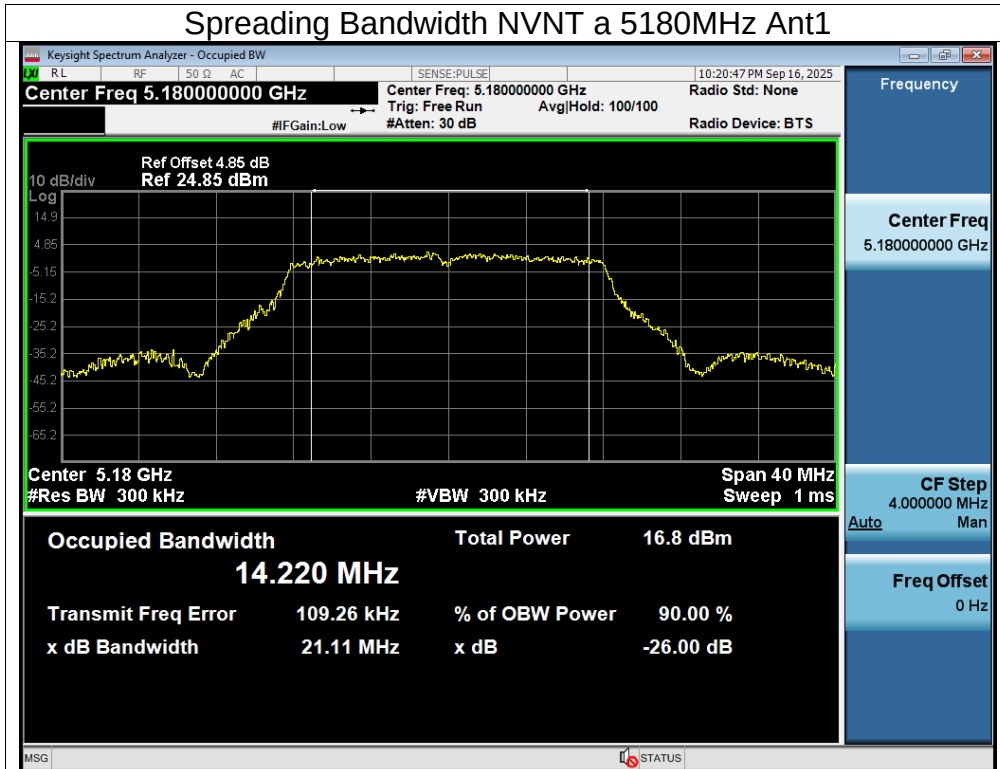
OBW NVNT ax80 5210MHz Ant1



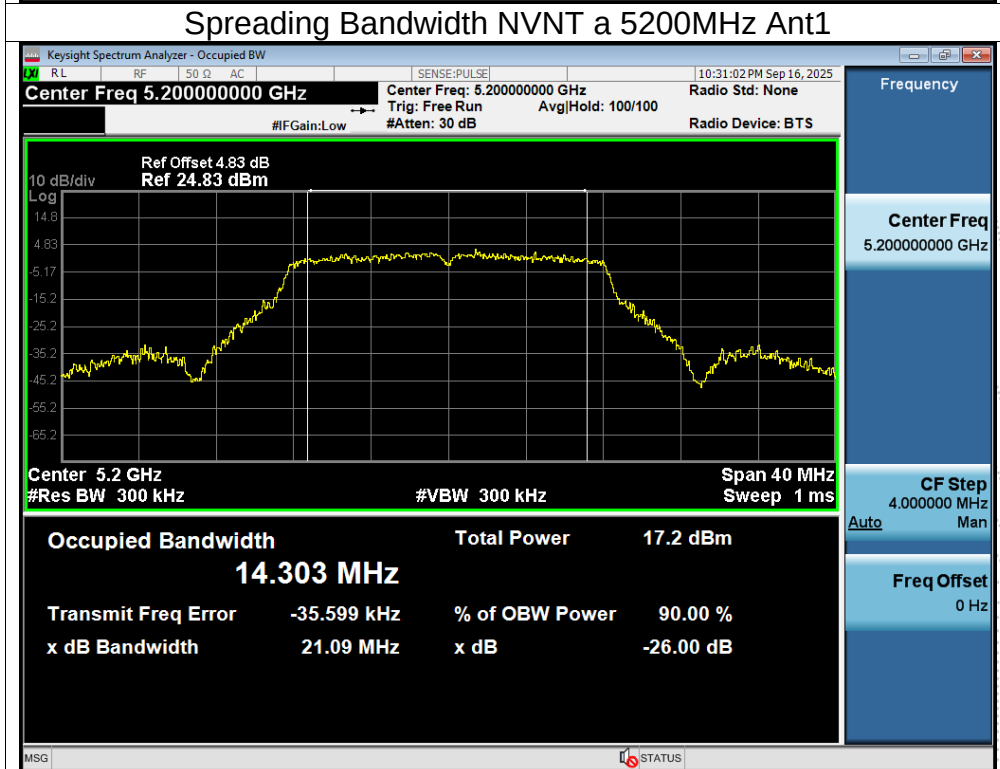
Test Graphs



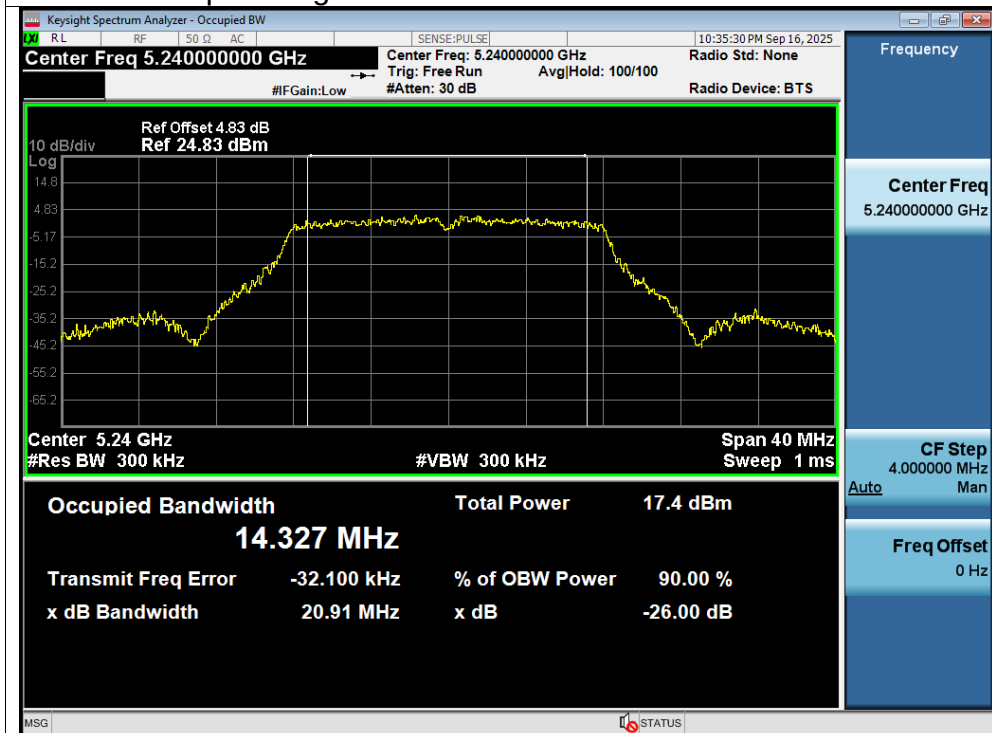
Spreading Bandwidth NVNT a 5180MHz Ant1



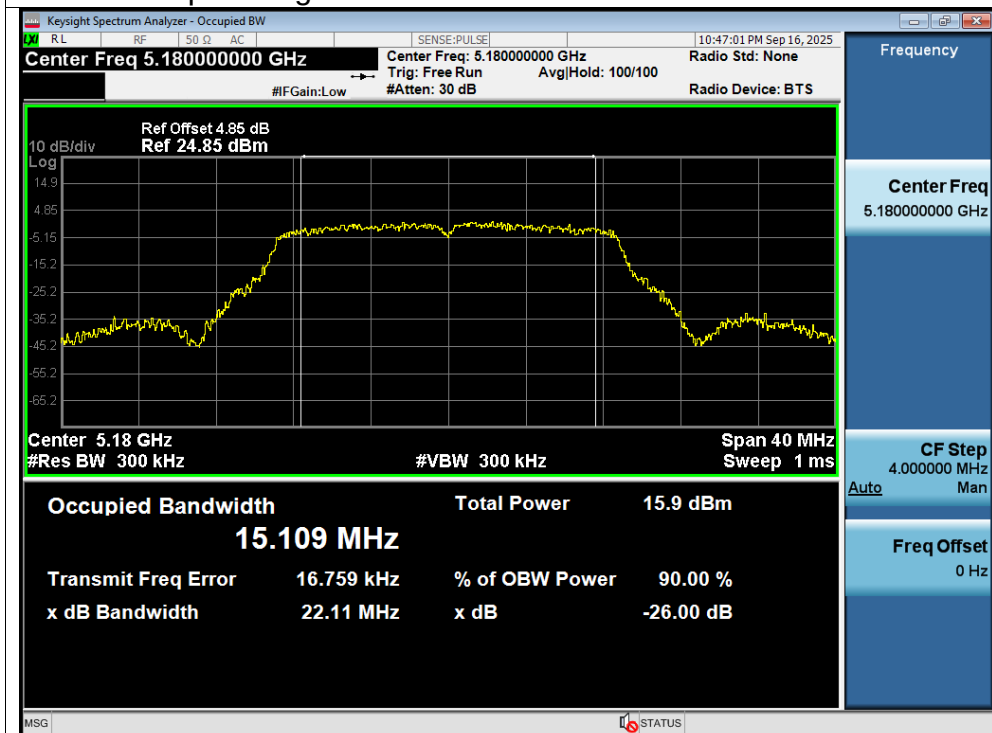
Spreading Bandwidth NVNT a 5200MHz Ant1

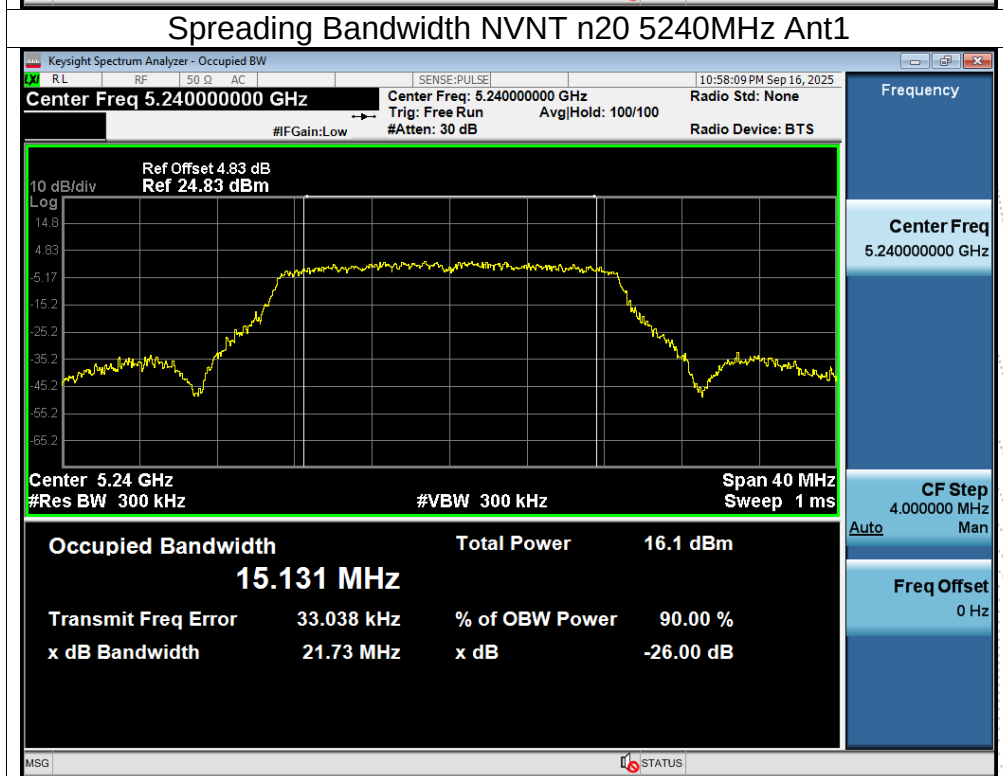
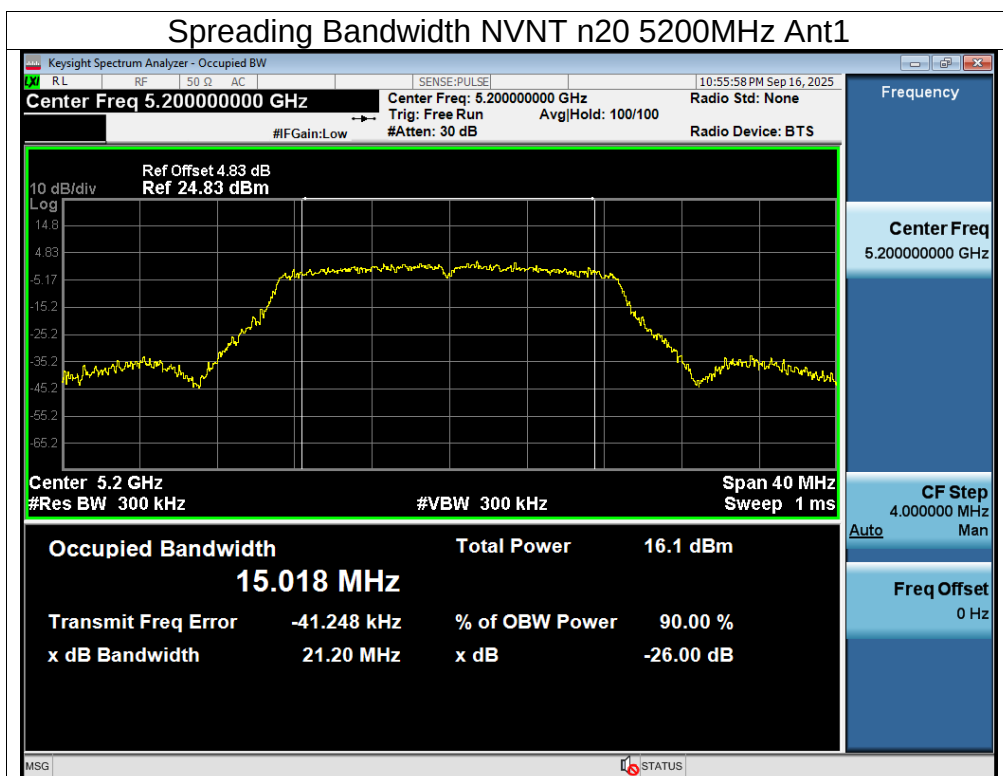


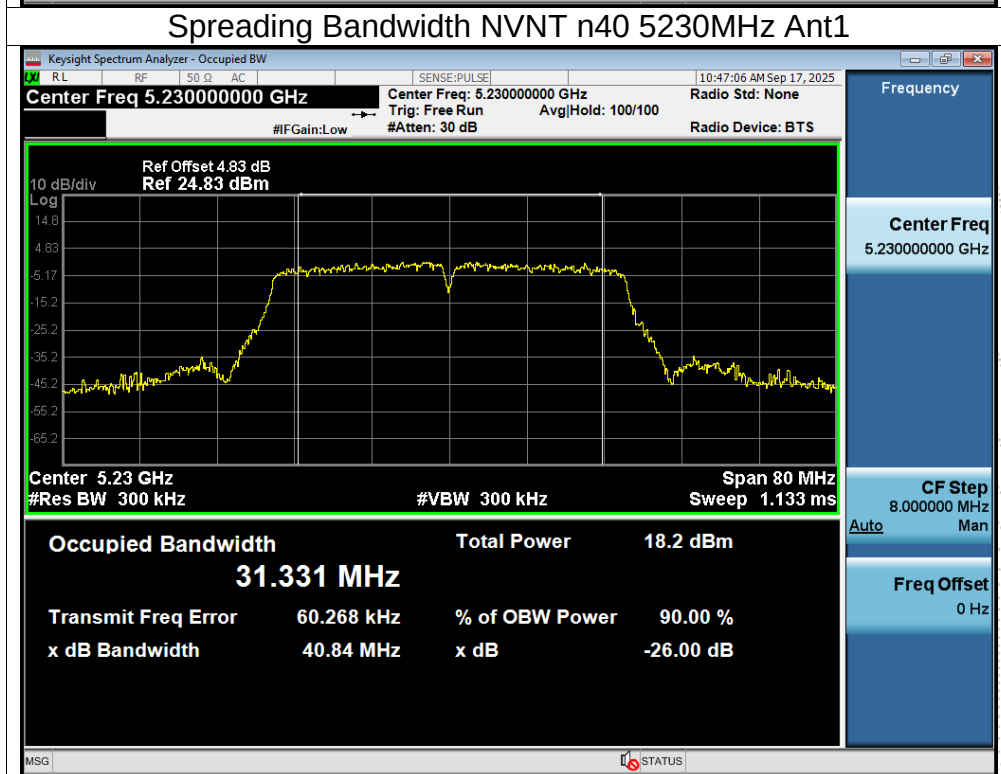
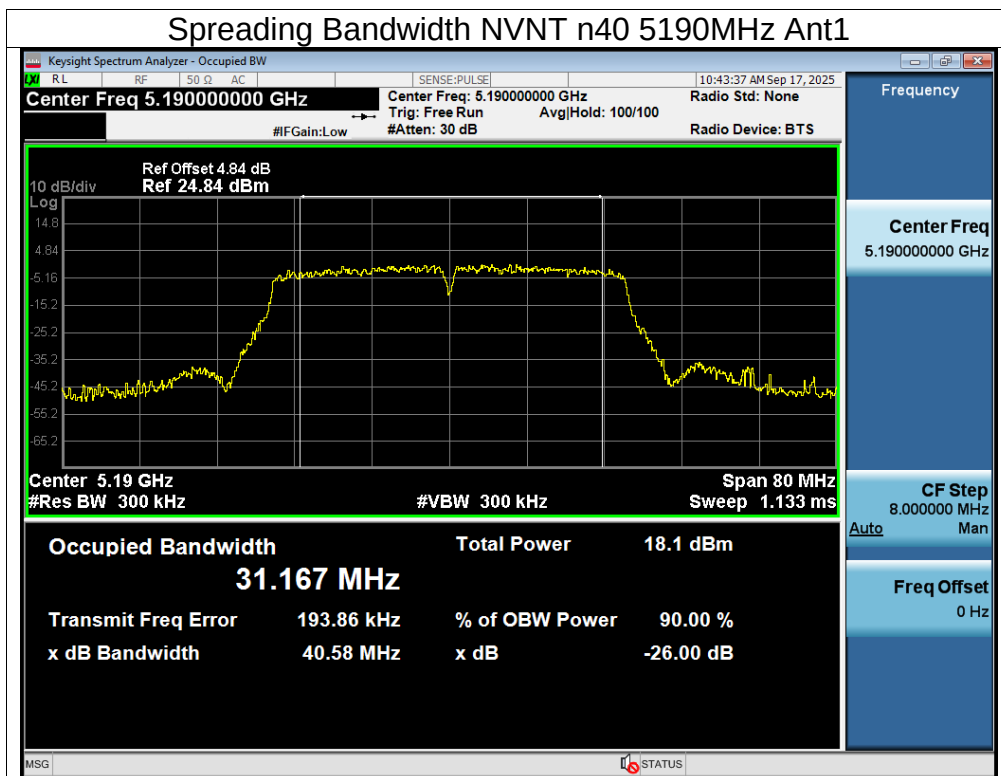
Spreading Bandwidth NVNT a 5240MHz Ant1



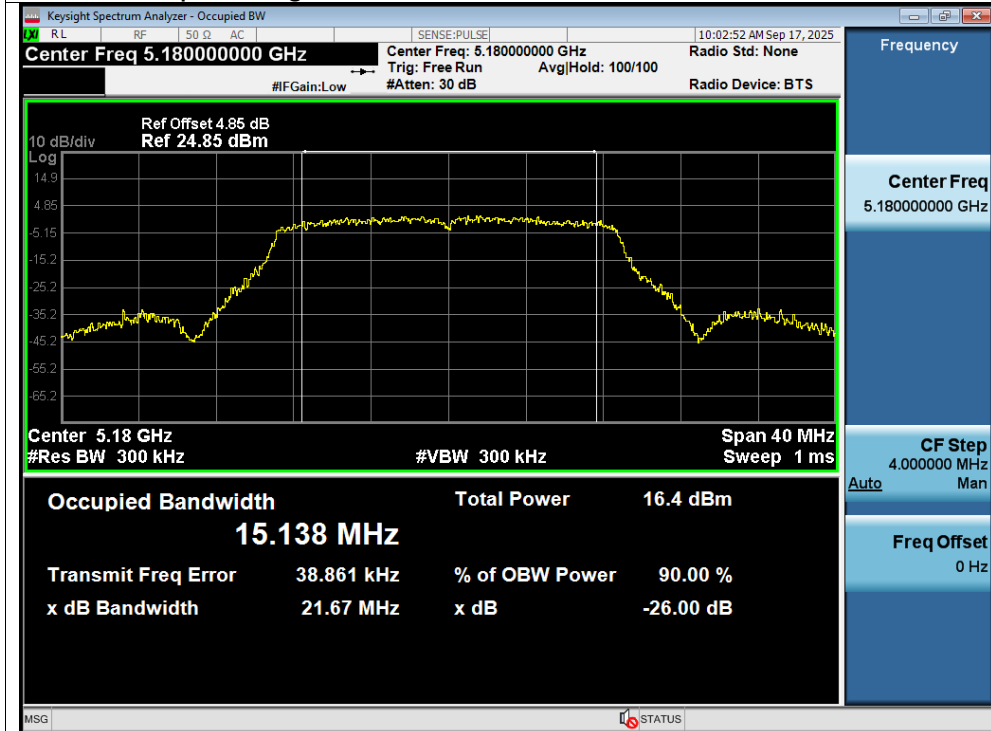
Spreading Bandwidth NVNT n20 5180MHz Ant1



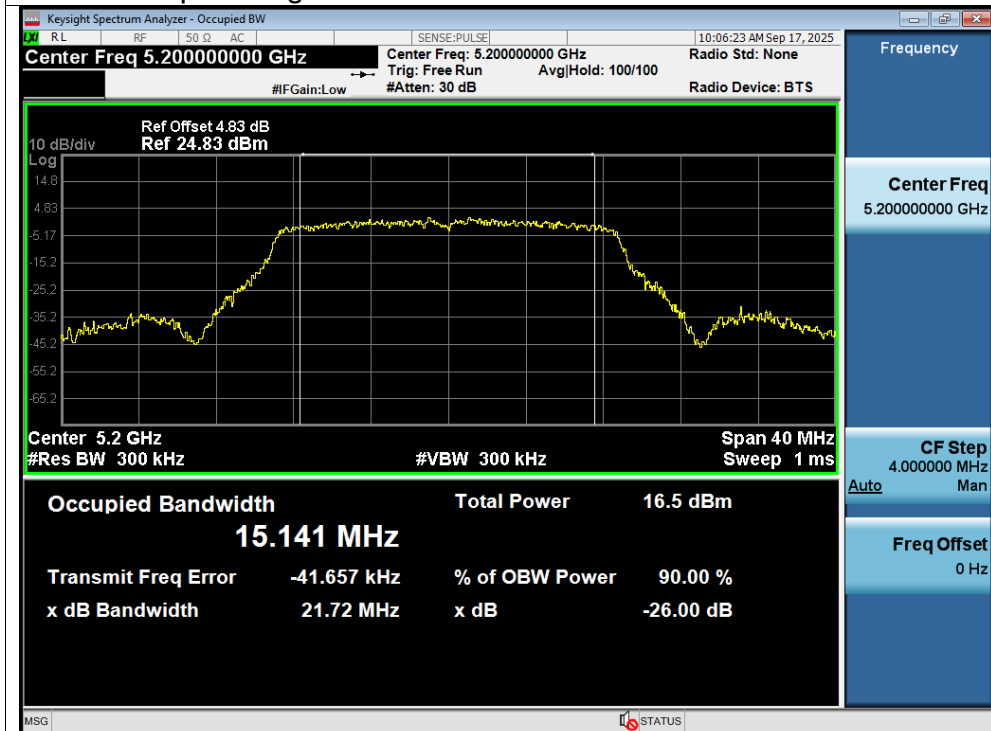




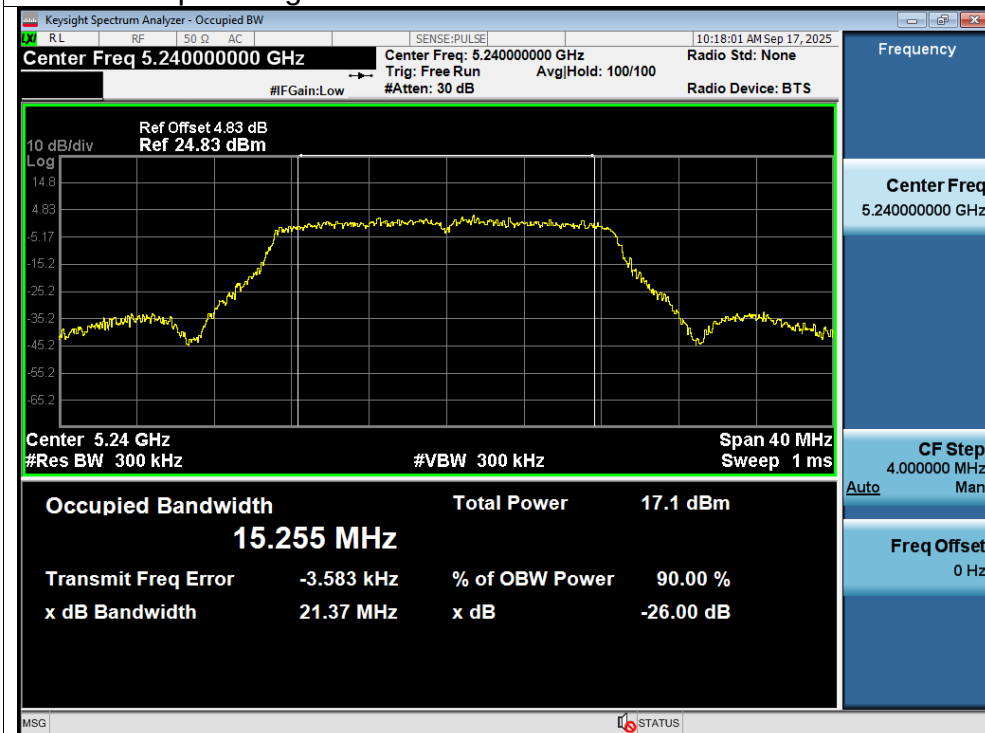
Spreading Bandwidth NVNT ac20 5180MHz Ant1



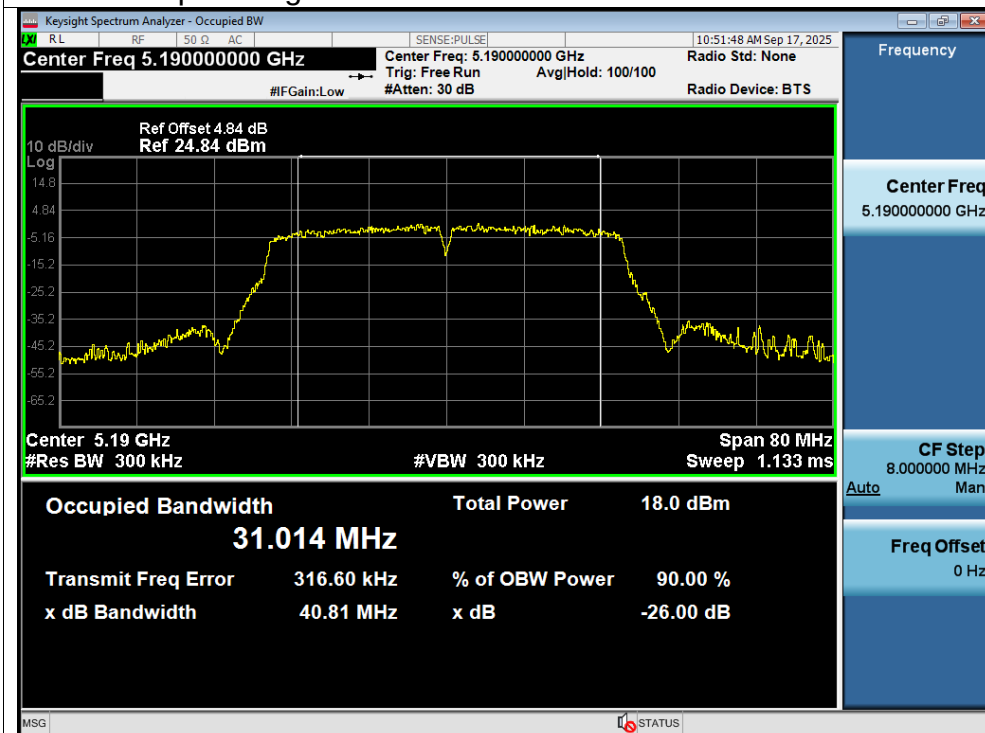
Spreading Bandwidth NVNT ac20 5200MHz Ant1



Spreading Bandwidth NVNT ac20 5240MHz Ant1



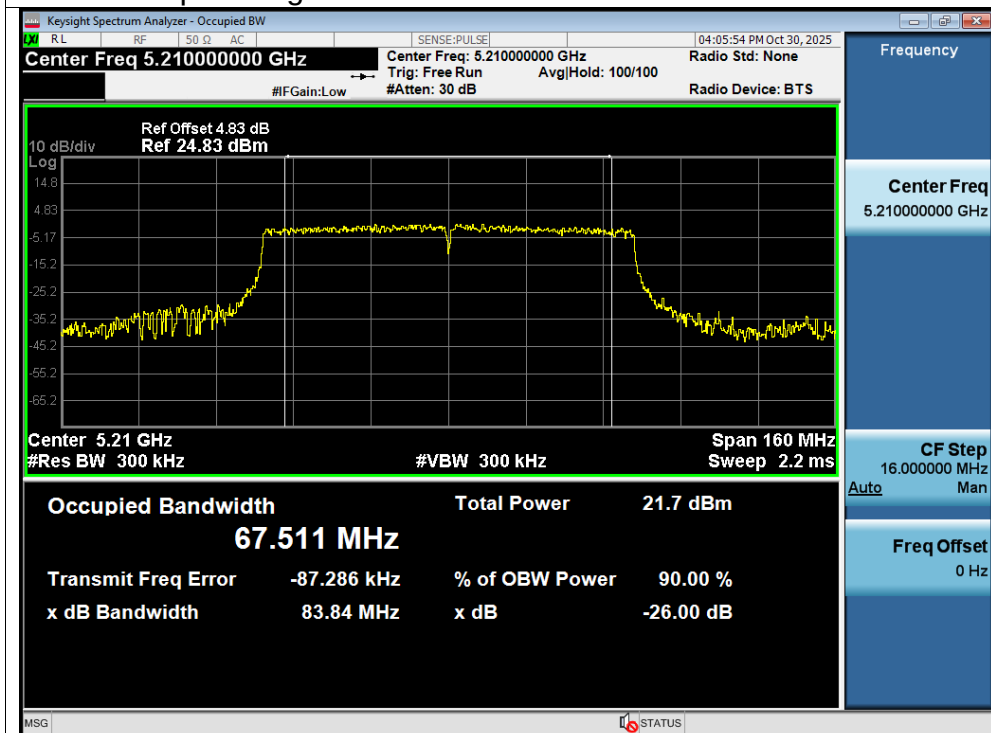
Spreading Bandwidth NVNT ac40 5190MHz Ant1



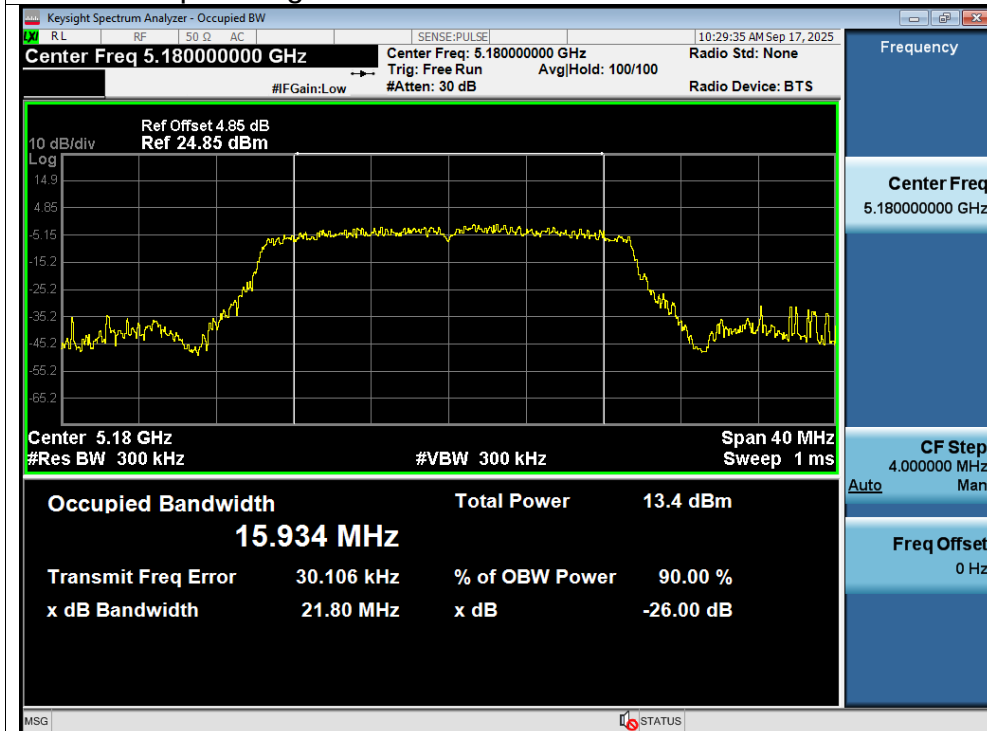
Spreading Bandwidth NVNT ac40 5230MHz Ant1



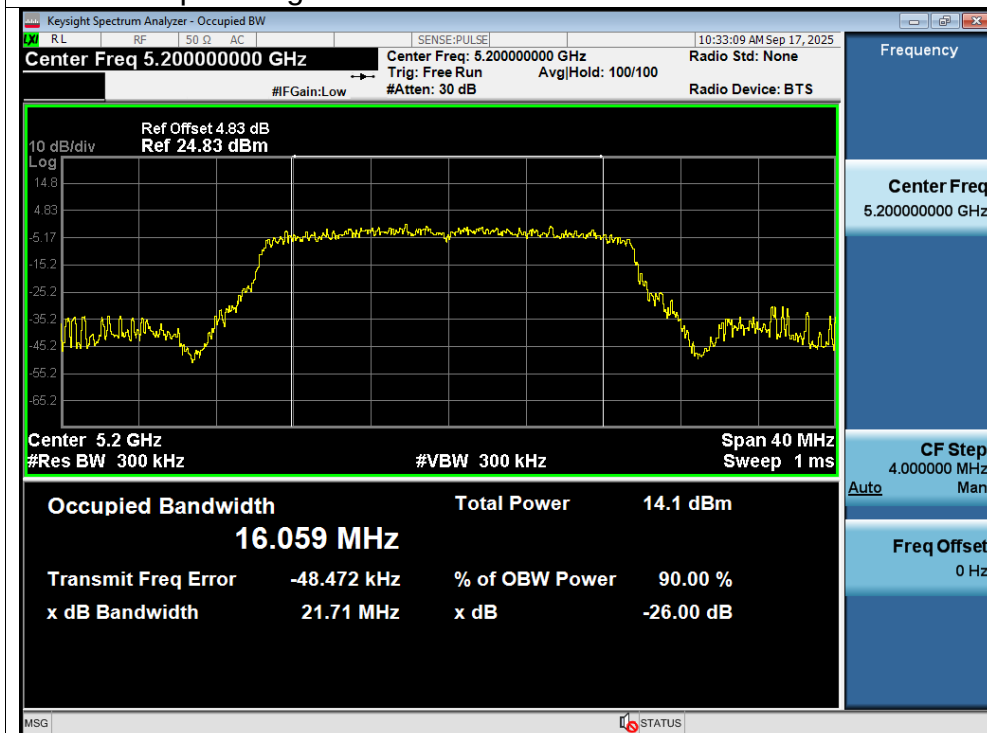
Spreading Bandwidth NVNT ac80 5210MHz Ant1



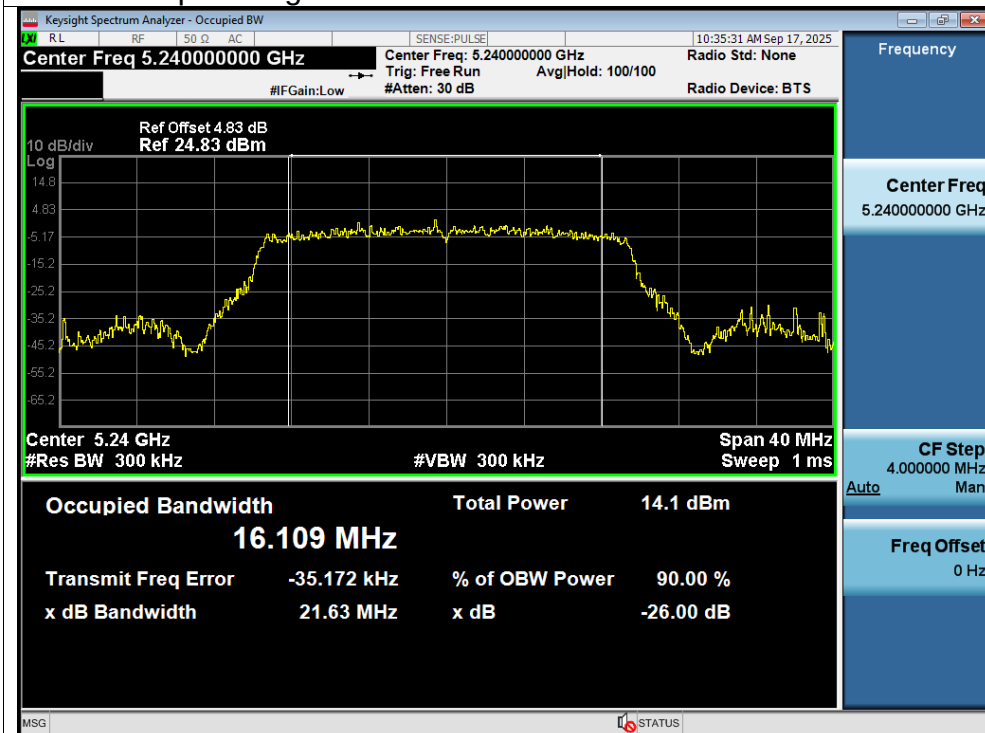
Spreading Bandwidth NVNT ax20 5180MHz Ant1



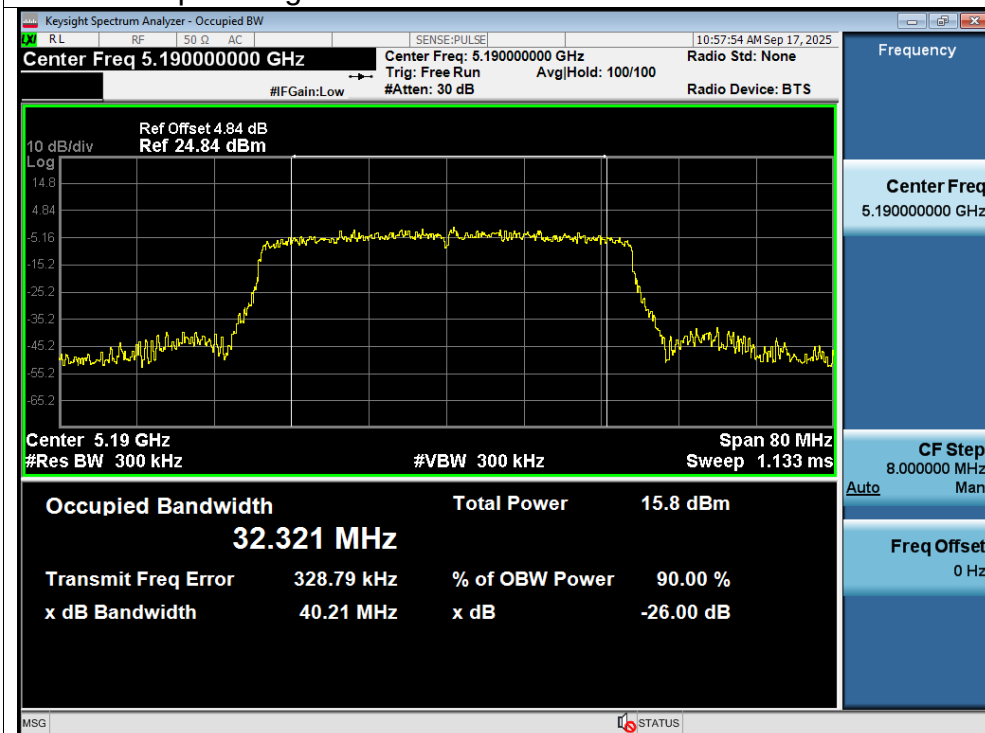
Spreading Bandwidth NVNT ax20 5200MHz Ant1



Spreading Bandwidth NVNT ax20 5240MHz Ant1

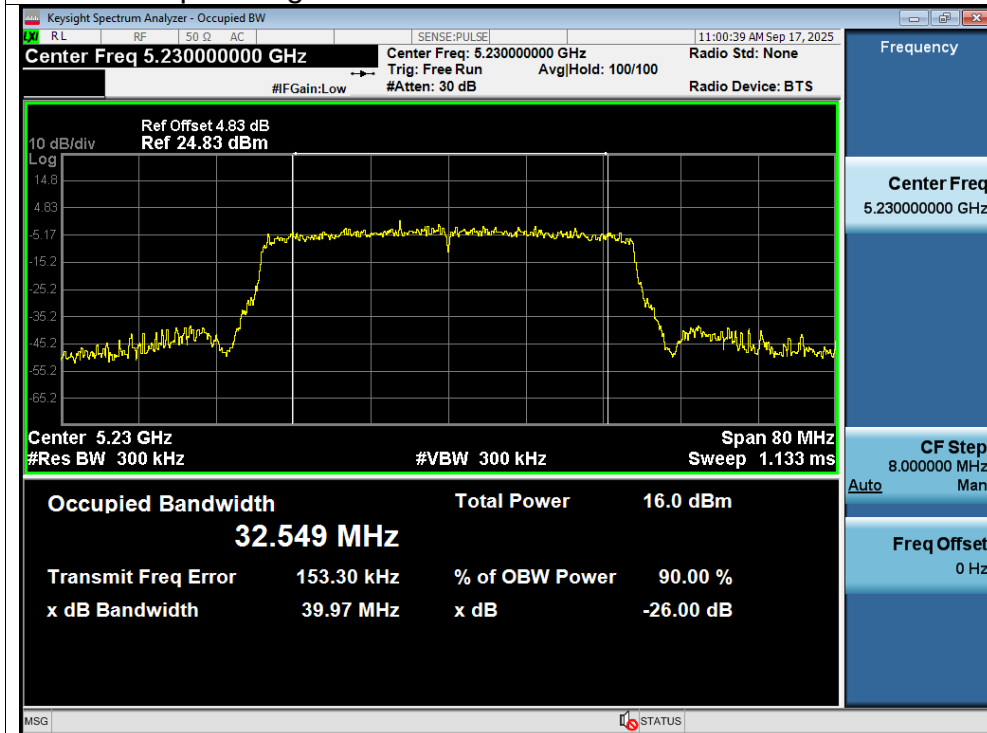


Spreading Bandwidth NVNT ax40 5190MHz Ant1

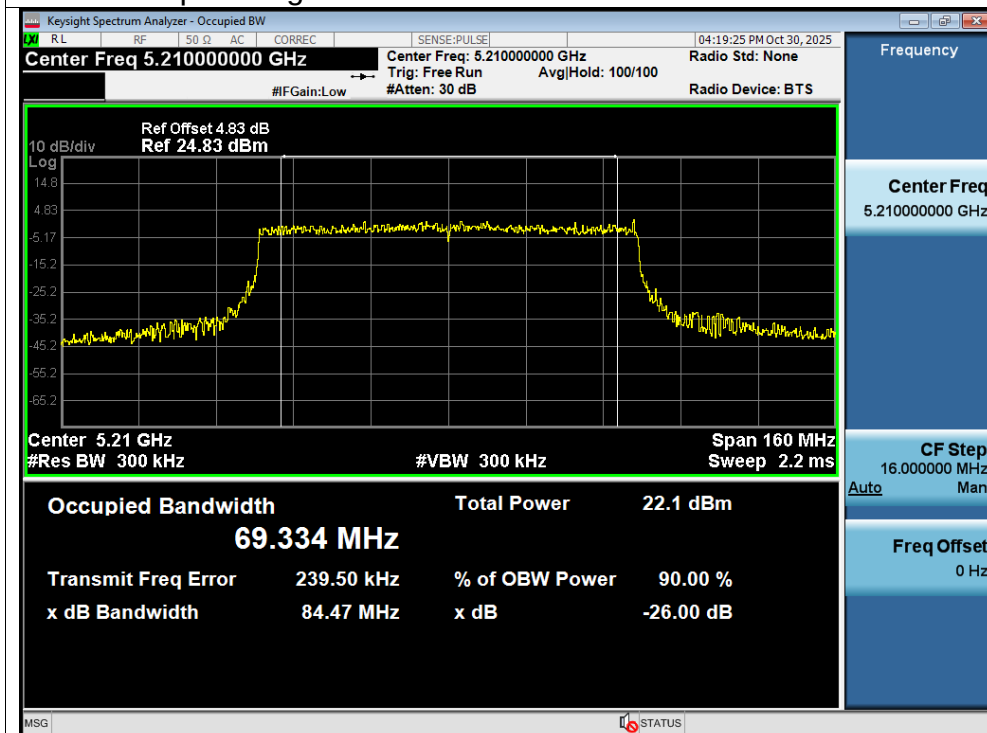




Spreading Bandwidth NVNT ax40 5230MHz Ant1

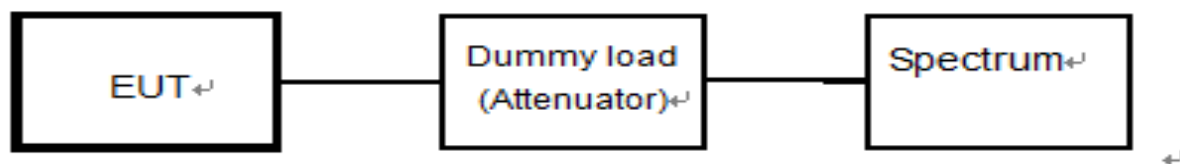


Spreading Bandwidth NVNT ax80 5210MHz Ant1



10. Unwanted Emission Intensity Measurement

10.1 Block Diagram Of Test Setup



10.2 Limit

20MHz system	
OBW:18-20MHz or less	OBW:18-20MHz
5,142MHz or less: 2.5 μ W/MHz (-26dBm/MHz) 5,142-5,150 MHz :15 μ W/MHz (-18.24dBm/MHz) 5,250-5,251MHz : $10^{1-(f-9)}$ mW/MHz (-10 ~ 0dBm/MHz) 5,251 - 5,260 MHz: $10^{1-(8/90)(f-11)}$ mW/MHz (-18~-10dBm/MHz) 5,260 - 5,266.7 MHz: $10^{-1.8-(6/50)(f-20)}$ mW/MHz (-26 ~ -18dBm/MHz) 5,266.7MHz or more: 2.5 μ W/MHz (-26dBm/MHz)	5,142MHz or less: 2.5 μ W/MHz (-26dBm/MHz) 5,142-5,150 MHz :15 μ W/MHz (-18.24dBm/MHz) 5,250-5,250.2 MHz : $10^{1-(8/3)(f-9.75)}$ mW/MHz (-2 ~ -3.3dBm/MHz) 5,250.2 - 5,251 MHz: $10^{1-(f-9)}$ mW/MHz (-10 ~ -2dBm/MHz) 5,251 - 5,260 MHz: $10^{1-(8/90)(f-11)}$ mW/MHz (-18 ~ -10dBm/MHz) 5,260 - 5,266.7 MHz: $10^{-1.8-(6/50)(f-20)}$ mW/MHz (-26 ~ -18dBm/MHz) 5,266.7MHz or more: 2.5 μ W/MHz (-26dBm/MHz)
40MHz system	80MHz system
5,141.6MHz or less: 2.5 μ W/MHz (-26dBm/MHz) 5,141.6-5,150 MHz :15 μ W/MHz (-18.24dBm/MHz) 5,250-5,251MHz : $10^{-(f-20)+\log(1/2)}$ mW/MHz (-13 ~ -3dBm/MHz) 5,251 - 5,270 MHz: $10^{-(8/190)(f-21)-1+\log(1/2)}$ mW/MHz (-21 ~ -13dBm/MHz) 5,270 - 5,278.4 MHz: $10^{-(3/50)(f-40)-1.8+\log(1/2)}$ mW/MHz (-26 ~ -21dBm/MHz) 5,278.4MHz or more: 2.5 μ W/MHz (-26dBm/MHz)	5,123.2MHz or less: 2.5 μ W/MHz (-26dBm/MHz) 5,123.2-5,150 MHz :15 μ W/MHz (-18.24dBm/MHz) 5,250-5,251MHz : $10^{-(f-40)+\log(1/4)}$ mW/MHz (-16 ~ -6dBm/MHz) 5,251 - 5,290 MHz: $10^{-(8/390)(f-41)-1+\log(1/4)}$ mW/MHz (-24 ~ -16dBm/MHz) 5,290 - 5,296.7MHz: $10^{-(3/10)(f-80)-1.8+\log(1/4)}$ mW/MHz (-26 ~ -24dBm/MHz) 5,296.7MHz or more: 2.5 μ W/MHz (-26dBm/MHz)

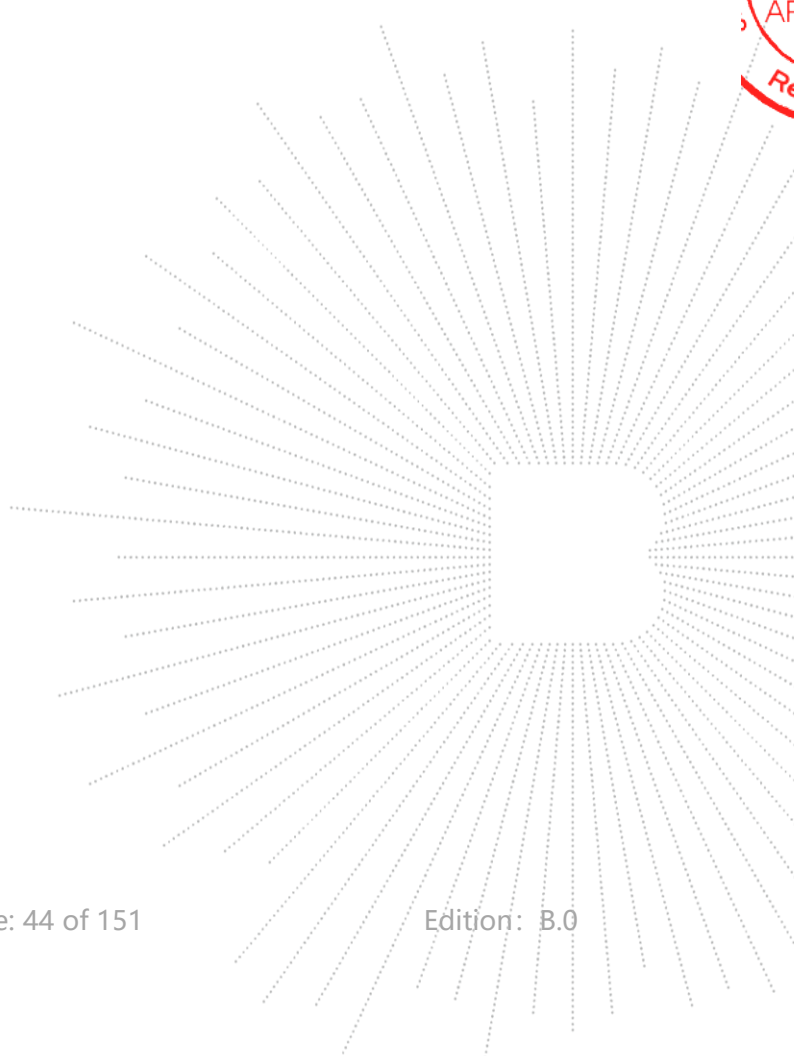
10.3 Measuring Instruments And Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	Below 1GHz: 1 MHz Above 1Ghz: 1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

10.4 Test Procedure

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: Below 1GHz RB:100KHz / VB:100KHz
Above 1GHz RB:1MHz / VB:1MHz / AT: 20dB Ref: 10dBm / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Positive peak
Trace mode: Max hold



10.5 Test Result

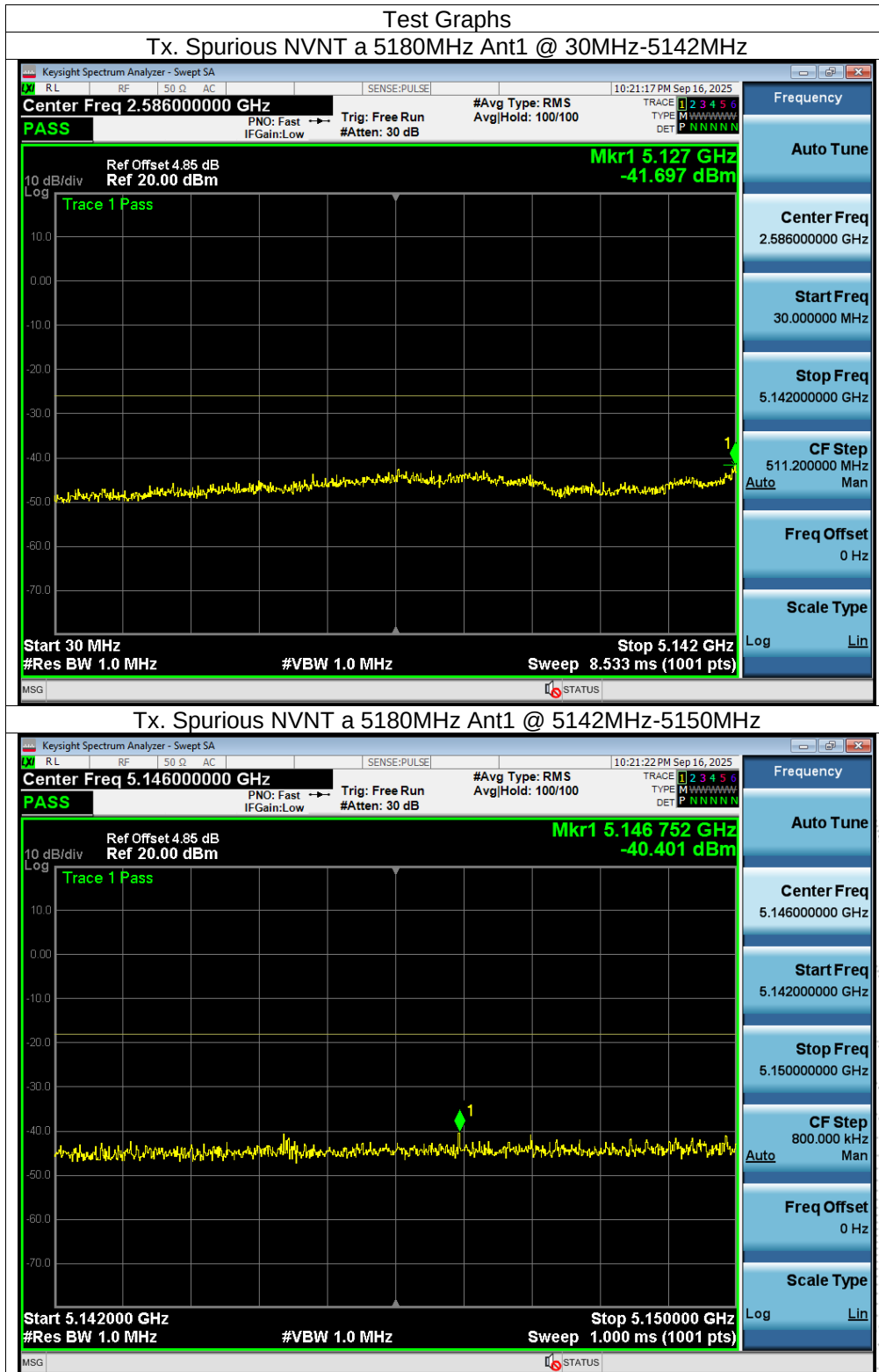
Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.8V

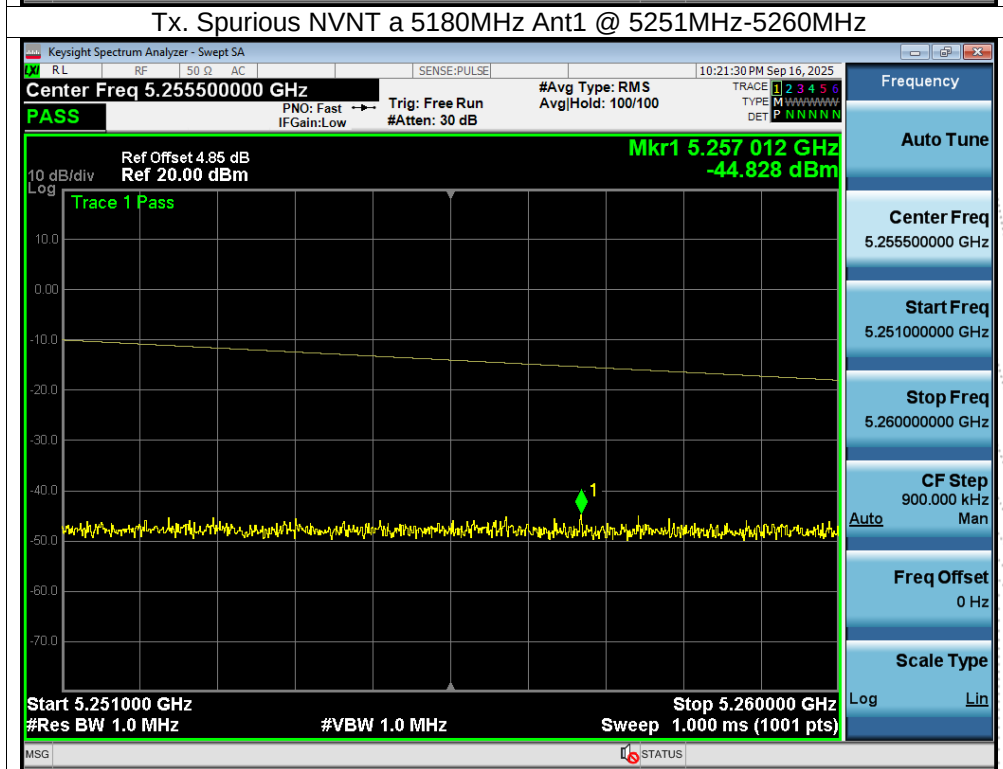
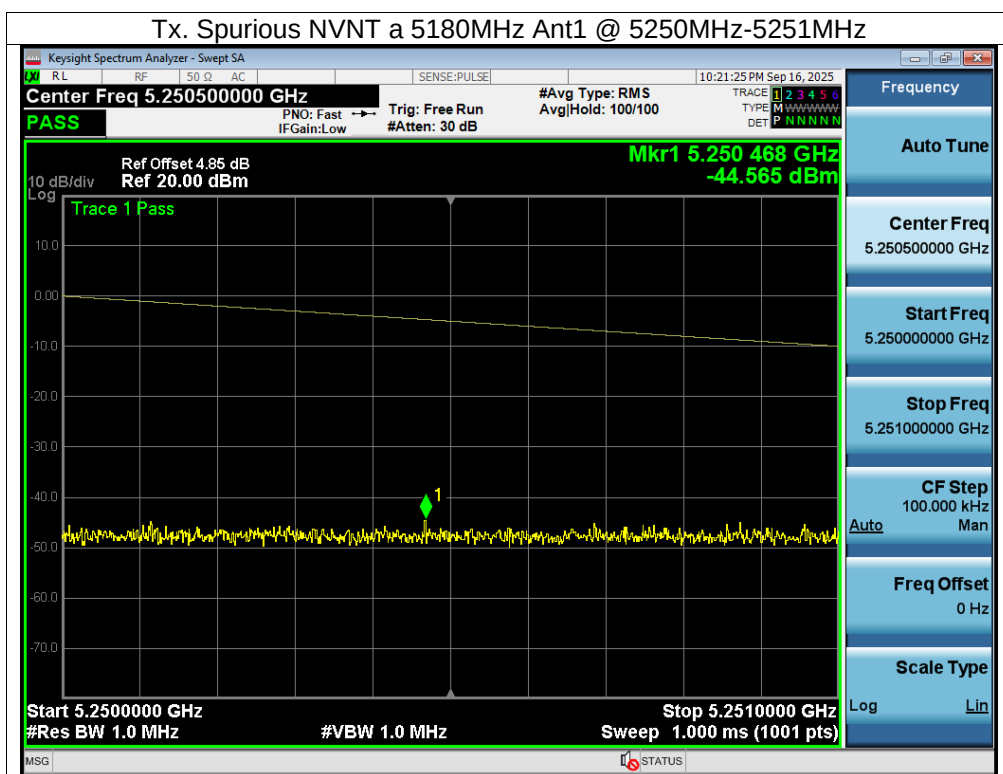
Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit Start(dBm)	Limit Stop (dBm)	Verdict
NVNT	a	5180	30-5142	5126.66	-41.7	-26	-26	Pass
NVNT	a	5180	5142-5150	5146.75	-40.4	-18	-18	Pass
NVNT	a	5180	5250-5251	5250.47	-44.57	0	-10	Pass
NVNT	a	5180	5251-5260	5257.01	-44.83	-10	-18	Pass
NVNT	a	5180	5260-5266.7	5261.03	-44.83	-18	-26	Pass
NVNT	a	5180	5266.7-26000	25564.6	-31.54	-26	-26	Pass
NVNT	a	5200	30-5142	3122.76	-42.1	-26	-26	Pass
NVNT	a	5200	5142-5150	5147.66	-43.3	-18	-18	Pass
NVNT	a	5200	5250-5251	5250.35	-41.35	0	-10	Pass
NVNT	a	5200	5251-5260	5252.77	-43.1	-10	-18	Pass
NVNT	a	5200	5260-5266.7	5260.24	-43.21	-18	-26	Pass
NVNT	a	5200	5266.7-26000	25087.73	-32.21	-26	-26	Pass
NVNT	a	5240	30-5142	3240.34	-42.31	-26	-26	Pass
NVNT	a	5240	5142-5150	5143.96	-44.75	-18	-18	Pass
NVNT	a	5240	5250-5251	5250.21	-7.5	0	-10	Pass
NVNT	a	5240	5251-5260	5251.01	-15.57	-10	-18	Pass
NVNT	a	5240	5260-5266.7	5260.25	-29.07	-18	-26	Pass
NVNT	a	5240	5266.7-26000	5266.7	-26.28	-26	-26	Pass
NVNT	n20	5180	30-5142	2862.05	-42.69	-26	-26	Pass
NVNT	n20	5180	5142-5150	5144.98	-41.95	-18	-18	Pass
NVNT	n20	5180	5250-5251	5250.34	-45.34	0	-10	Pass
NVNT	n20	5180	5251-5260	5254.89	-45.53	-10	-18	Pass
NVNT	n20	5180	5260-5266.7	5266.63	-45.45	-18	-26	Pass
NVNT	n20	5180	5266.7-26000	24673.07	-32.06	-26	-26	Pass
NVNT	n20	5200	30-5142	2744.47	-42.96	-26	-26	Pass
NVNT	n20	5200	5142-5150	5144.3	-44.1	-18	-18	Pass
NVNT	n20	5200	5250-5251	5250.78	-43.65	0	-10	Pass
NVNT	n20	5200	5251-5260	5254.08	-43.87	-10	-18	Pass
NVNT	n20	5200	5260-5266.7	5263.14	-44.12	-18	-26	Pass
NVNT	n20	5200	5266.7-26000	24797.47	-31.87	-26	-26	Pass
NVNT	n20	5240	30-5142	3040.97	-42.32	-26	-26	Pass
NVNT	n20	5240	5142-5150	5144.06	-44.89	-18	-18	Pass
NVNT	n20	5240	5250-5251	5250	-8.37	0	-10	Pass
NVNT	n20	5240	5251-5260	5251.18	-15.36	-10	-18	Pass
NVNT	n20	5240	5260-5266.7	5262.32	-28.37	-18	-26	Pass
NVNT	n20	5240	5266.7-26000	5266.7	-26.01	-26	-26	Pass
NVNT	n40	5190	30-5141.6	3240.08	-41.62	-26	-26	Pass
NVNT	n40	5190	5141.6-5150	5150	-36.64	-18	-18	Pass
NVNT	n40	5190	5250-5251	5250.01	-39.42	-3	-13	Pass
NVNT	n40	5190	5251-5270	5252.12	-43.59	-13	-21	Pass
NVNT	n40	5190	5270-5278.4	5277.06	-44.31	-21	-26	Pass
NVNT	n40	5190	5278.4-26000	25150.41	-31.74	-26	-26	Pass
NVNT	n40	5230	30-5141.6	3393.43	-42.02	-26	-26	Pass
NVNT	n40	5230	5141.6-5150	5147.98	-44.4	-18	-18	Pass
NVNT	n40	5230	5250-5251	5250.03	-11.7	-3	-13	Pass
NVNT	n40	5230	5251-5270	5251.25	-20.17	-13	-21	Pass
NVNT	n40	5230	5270-5278.4	5270.03	-36.29	-21	-26	Pass
NVNT	n40	5230	5278.4-26000	24860.31	-31.24	-26	-26	Pass

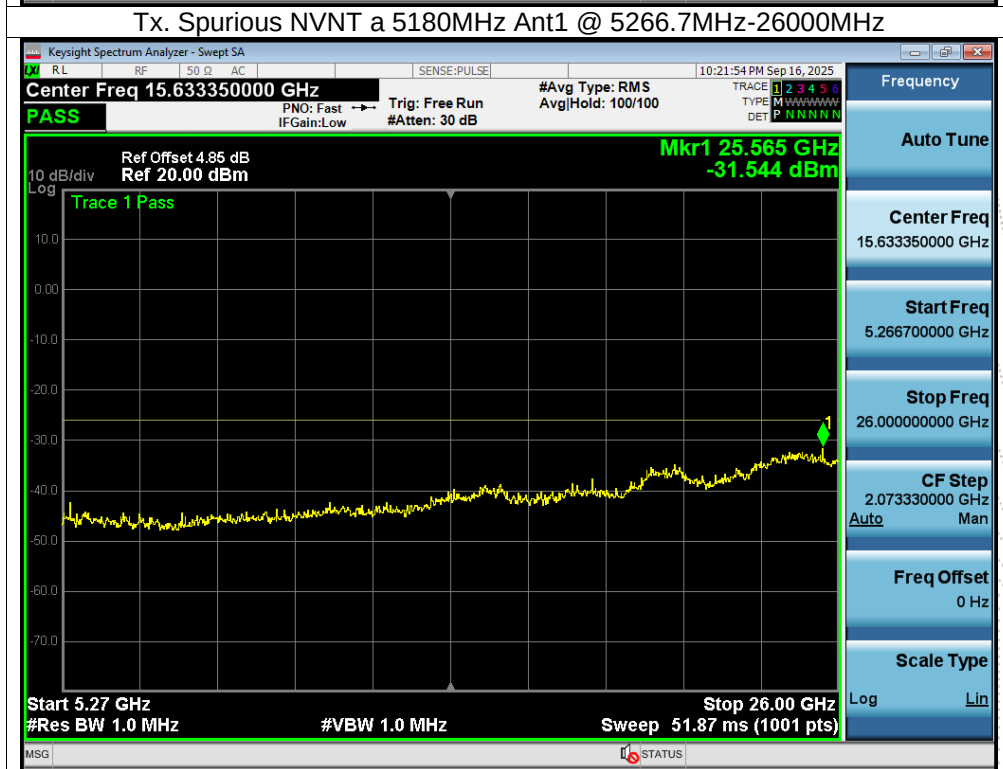
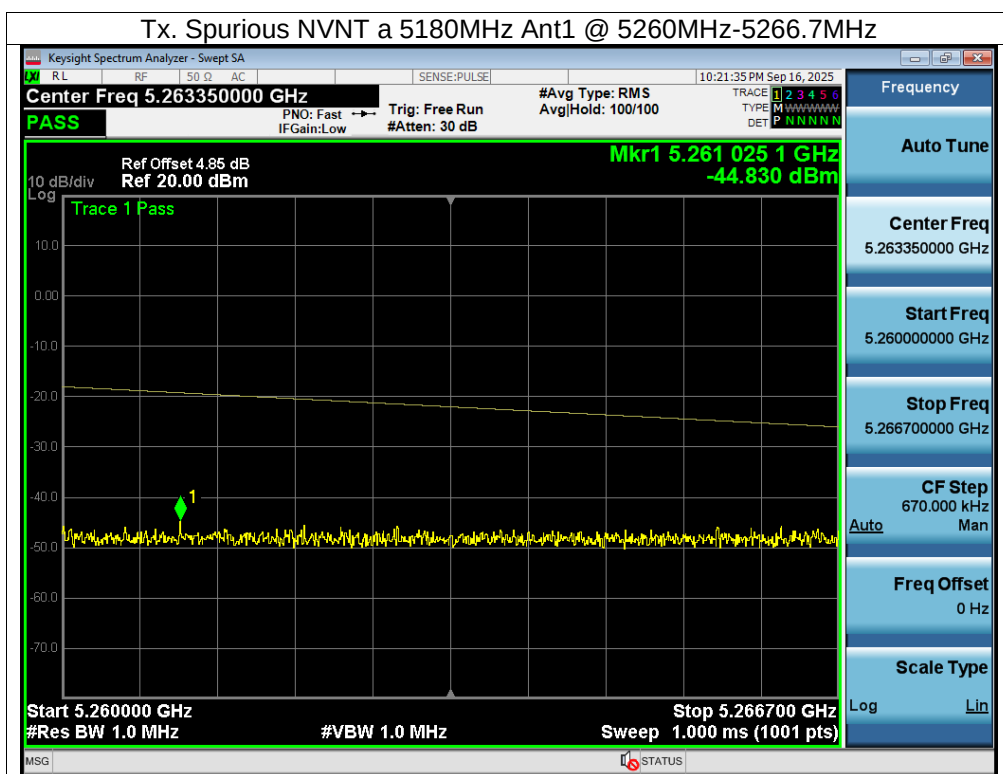
NVNT	ac20	5180	30-5142	3112.54	-42.86	-26	-26	Pass
NVNT	ac20	5180	5142-5150	5149.11	-41.98	-18	-18	Pass
NVNT	ac20	5180	5250-5251	5250.73	-44.29	0	-10	Pass
NVNT	ac20	5180	5251-5260	5251.39	-45.12	-10	-18	Pass
NVNT	ac20	5180	5260-5266.7	5261.84	-44.9	-18	-26	Pass
NVNT	ac20	5180	5266.7-26000	24880.4	-31.92	-26	-26	Pass
NVNT	ac20	5200	30-5142	2632.01	-42.19	-26	-26	Pass
NVNT	ac20	5200	5142-5150	5147.85	-44.27	-18	-18	Pass
NVNT	ac20	5200	5250-5251	5250.93	-42.34	0	-10	Pass
NVNT	ac20	5200	5251-5260	5254.81	-43.16	-10	-18	Pass
NVNT	ac20	5200	5260-5266.7	5260.42	-43.79	-18	-26	Pass
NVNT	ac20	5200	5266.7-26000	24942.6	-31.58	-26	-26	Pass
NVNT	ac20	5240	30-5142	2493.98	-42.04	-26	-26	Pass
NVNT	ac20	5240	5142-5150	5148.02	-44.62	-18	-18	Pass
NVNT	ac20	5240	5250-5251	5250.17	-8.03	0	-10	Pass
NVNT	ac20	5240	5251-5260	5251.26	-15.46	-10	-18	Pass
NVNT	ac20	5240	5260-5266.7	5260.82	-25.86	-18	-26	Pass
NVNT	ac20	5240	5266.7-26000	5266.7	-26.8	-26	-26	Pass
NVNT	ac40	5190	30-5141.6	5059.81	-42.47	-26	-26	Pass
NVNT	ac40	5190	5141.6-5150	5148.91	-37.57	-18	-18	Pass
NVNT	ac40	5190	5250-5251	5250.89	-38.87	-3	-13	Pass
NVNT	ac40	5190	5251-5270	5262.42	-42.37	-13	-21	Pass
NVNT	ac40	5190	5270-5278.4	5271.1	-44.76	-21	-26	Pass
NVNT	ac40	5190	5278.4-26000	24984.64	-32.13	-26	-26	Pass
NVNT	ac40	5230	30-5141.6	3311.65	-42.43	-26	-26	Pass
NVNT	ac40	5230	5141.6-5150	5144.8	-44.61	-18	-18	Pass
NVNT	ac40	5230	5250-5251	5250.06	-11.71	-3	-13	Pass
NVNT	ac40	5230	5251-5270	5251.17	-19.1	-13	-21	Pass
NVNT	ac40	5230	5270-5278.4	5270.05	-36.18	-21	-26	Pass
NVNT	ac40	5230	5278.4-26000	24984.64	-30.97	-26	-26	Pass
NVNT	ac80	5210	30-5123.2	5123.20	-26.41	-26	-26	Pass
NVNT	ac80	5210	5123.2-5150	5148.85	-21.95	-18	-18	Pass
NVNT	ac80	5210	5250-5251	5250.94	-12.34	-6	-16	Pass
NVNT	ac80	5210	5251-5290	5251.43	-14.63	-16	-24	Pass
NVNT	ac80	5210	5290-5296.7	5293.73	-29.34	-24	-26	Pass
NVNT	ac80	5210	5296.7-26000	5296.70	-28.38	-26	-26	Pass
NVNT	ax20	5180	30-5142	2749.58	-42.68	-26	-26	Pass
NVNT	ax20	5180	5142-5150	5146.41	-43.05	-18	-18	Pass
NVNT	ax20	5180	5250-5250.2	5250.12	-44.74	3	-2	Pass
NVNT	ax20	5180	5250.2-5251	5250.44	-45.11	-2	-10	Pass
NVNT	ax20	5180	5251-5260	5255.12	-45.35	-10	-18	Pass
NVNT	ax20	5180	5260-5266.7	5260.12	-45.19	-18	-26	Pass
NVNT	ax20	5180	5266.7-26000	25170.67	-31.64	-26	-26	Pass
NVNT	ax20	5200	30-5142	2386.63	-42.46	-26	-26	Pass
NVNT	ax20	5200	5142-5150	5148.14	-44.66	-18	-18	Pass
NVNT	ax20	5200	5250-5250.2	5250.02	-44.05	3	-2	Pass
NVNT	ax20	5200	5250.2-5251	5250.8	-43.65	-2	-10	Pass
NVNT	ax20	5200	5251-5260	5251.62	-43.63	-10	-18	Pass
NVNT	ax20	5200	5260-5266.7	5260.62	-44.74	-18	-26	Pass
NVNT	ax20	5200	5266.7-26000	25295.07	-31.7	-26	-26	Pass
NVNT	ax20	5240	30-5142	4191.17	-38.69	-26	-26	Pass
NVNT	ax20	5240	5142-5150	5146.7	-44.9	-18	-18	Pass
NVNT	ax20	5240	5250-5250.2	5250.01	-7.85	3	-2	Pass
NVNT	ax20	5240	5250.2-5251	5250.27	-11.01	-2	-10	Pass
NVNT	ax20	5240	5251-5260	5251.1	-19.78	-10	-18	Pass
NVNT	ax20	5240	5260-5266.7	5260.34	-27.74	-18	-26	Pass
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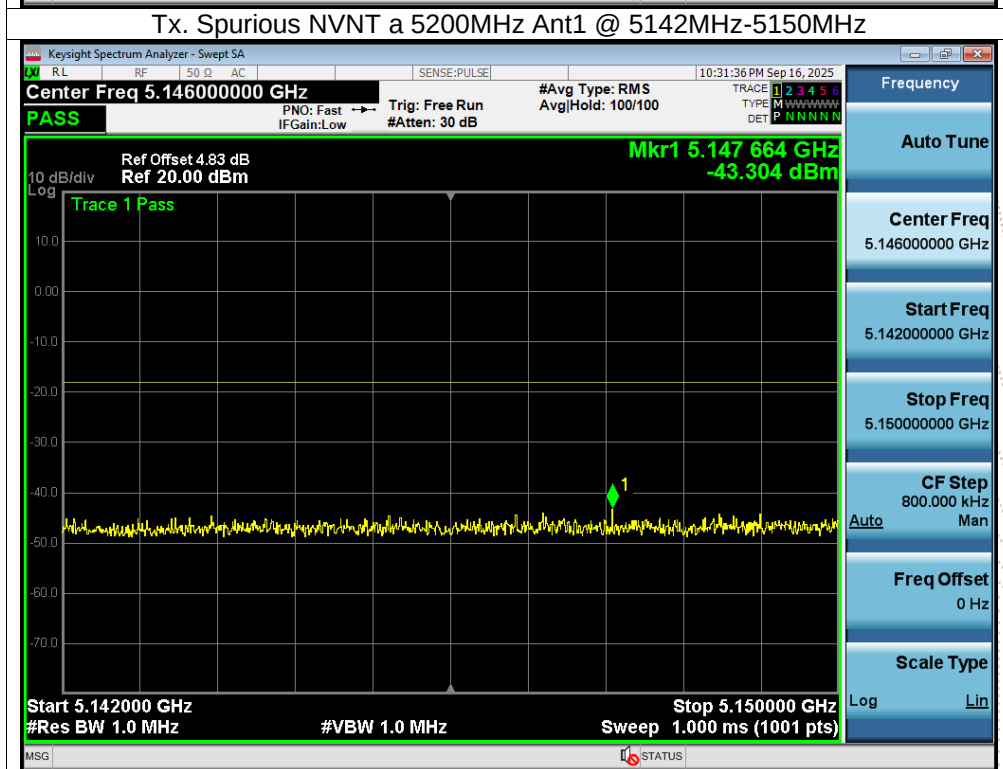
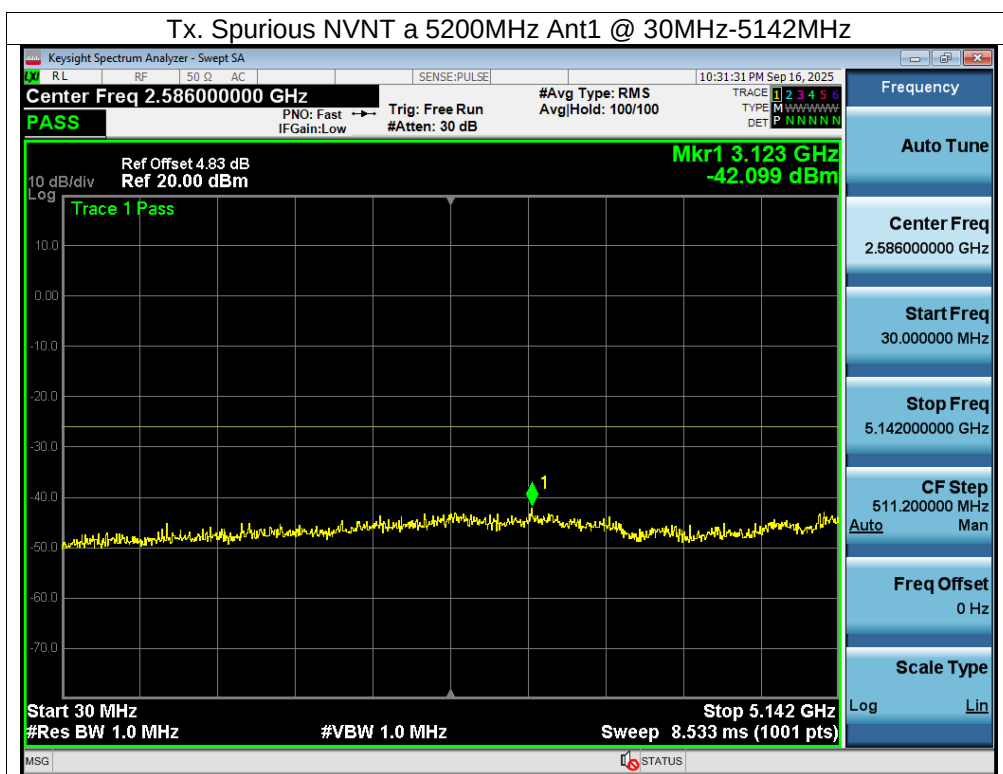
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NVNT	ax40	5190	5141.6-5150	5149.3	-37.17	-18	-18	Pass
NVNT	ax40	5190	5250-5251	5250.03	-40.73	-3	-13	Pass
NVNT	ax40	5190	5251-5270	5252.44	-41.42	-13	-21	Pass
NVNT	ax40	5190	5270-5278.4	5270.34	-44.87	-21	-26	Pass
NVNT	ax40	5190	5278.4-26000	25129.69	-31.41	-26	-26	Pass
NVNT	ax40	5230	30-5141.6	2611.36	-42.67	-26	-26	Pass
NVNT	ax40	5230	5141.6-5150	5143.2	-44.33	-18	-18	Pass
NVNT	ax40	5230	5250-5251	5250.02	-11.06	-3	-13	Pass
NVNT	ax40	5230	5251-5270	5251.27	-20.94	-13	-21	Pass
NVNT	ax40	5230	5270-5278.4	5270.3	-32.64	-21	-26	Pass
NVNT	ax40	5230	5278.4-26000	25316.19	-32.08	-26	-26	Pass
NVNT	ax80	5210	30-5123.2	5123.20	-40.97	-26	-26	Pass
NVNT	ax80	5210	5123.2-5150	5149.68	-31.96	-18	-18	Pass
NVNT	ax80	5210	5250-5251	5250.96	-14.62	-6	-16	Pass
NVNT	ax80	5210	5251-5290	5251.18	-18.00	-16	-24	Pass
NVNT	ax80	5210	5290-5296.7	5294.20	-36.41	-24	-26	Pass
NVNT	ax80	5210	5296.7-26000	24291.98	-32.36	-26	-26	Pass

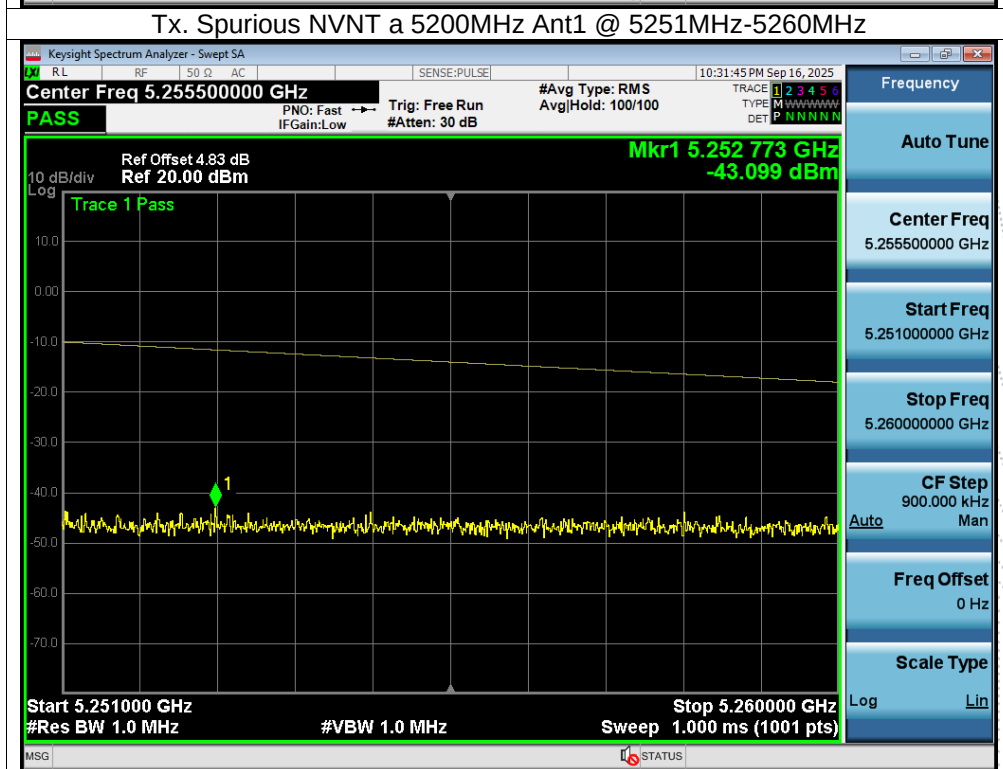
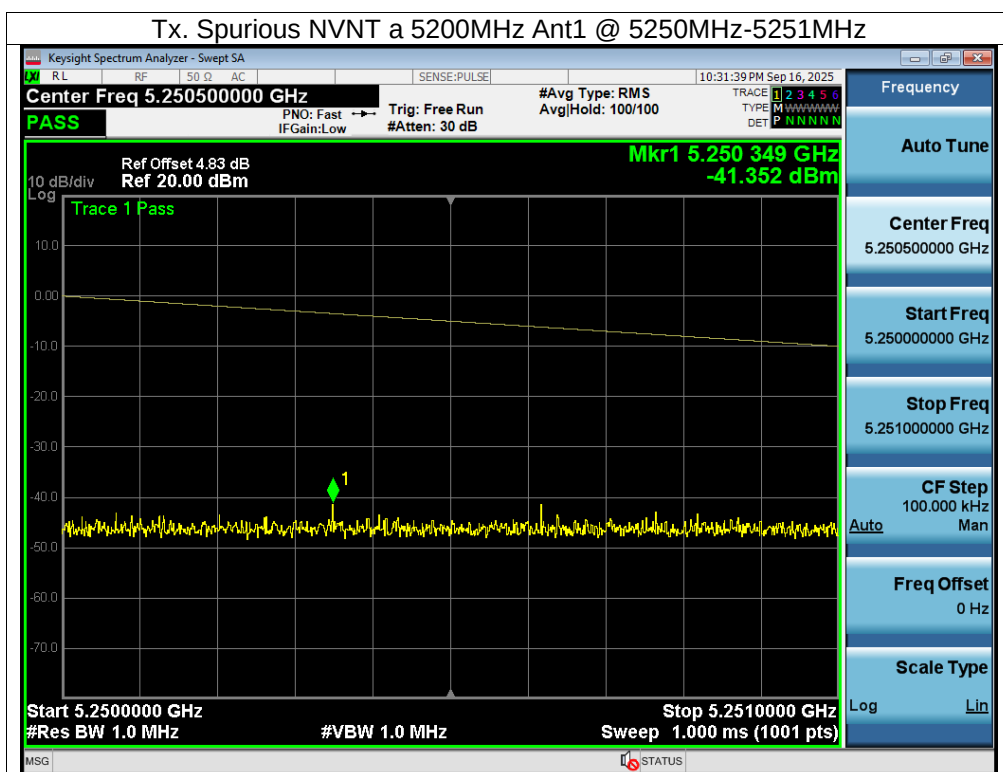


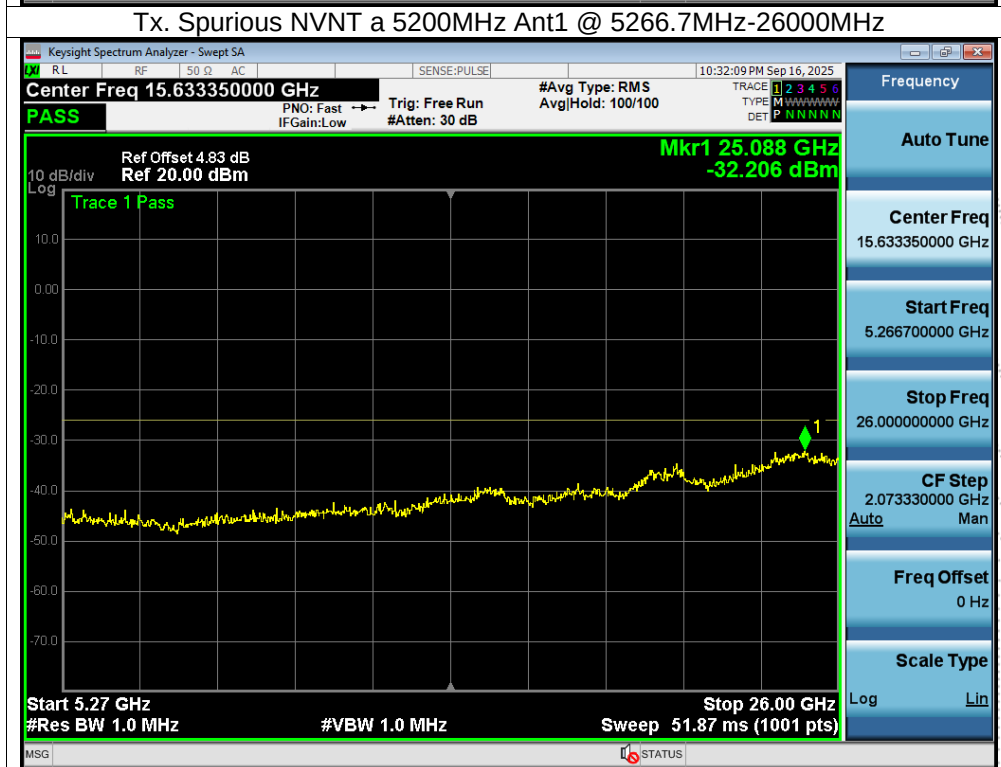
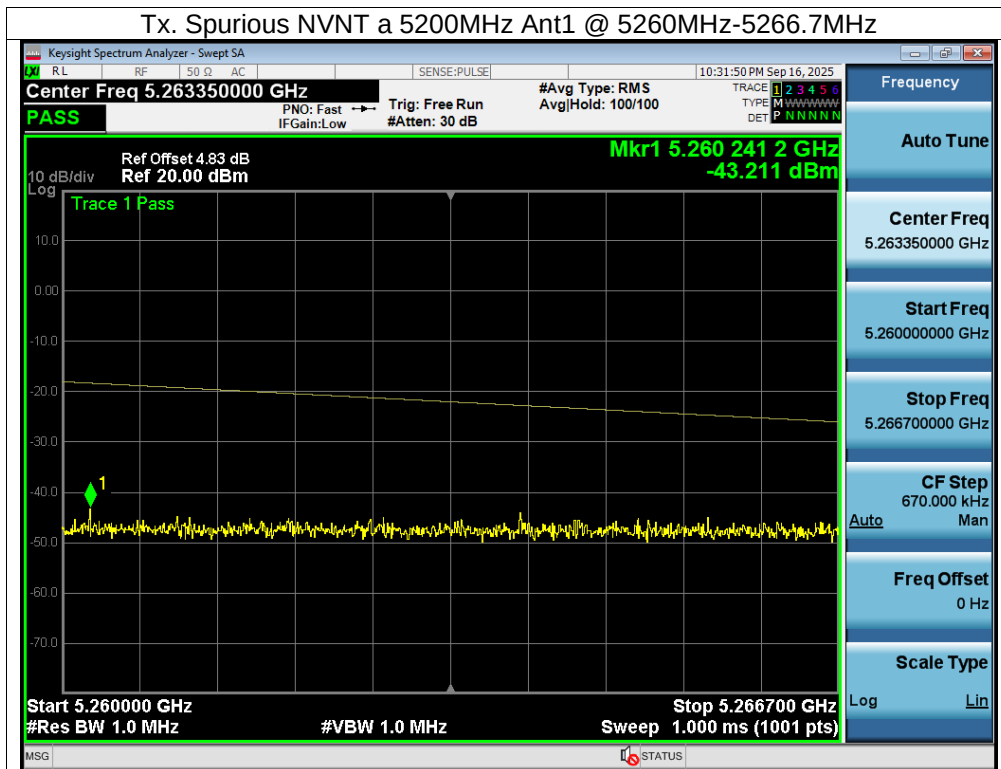


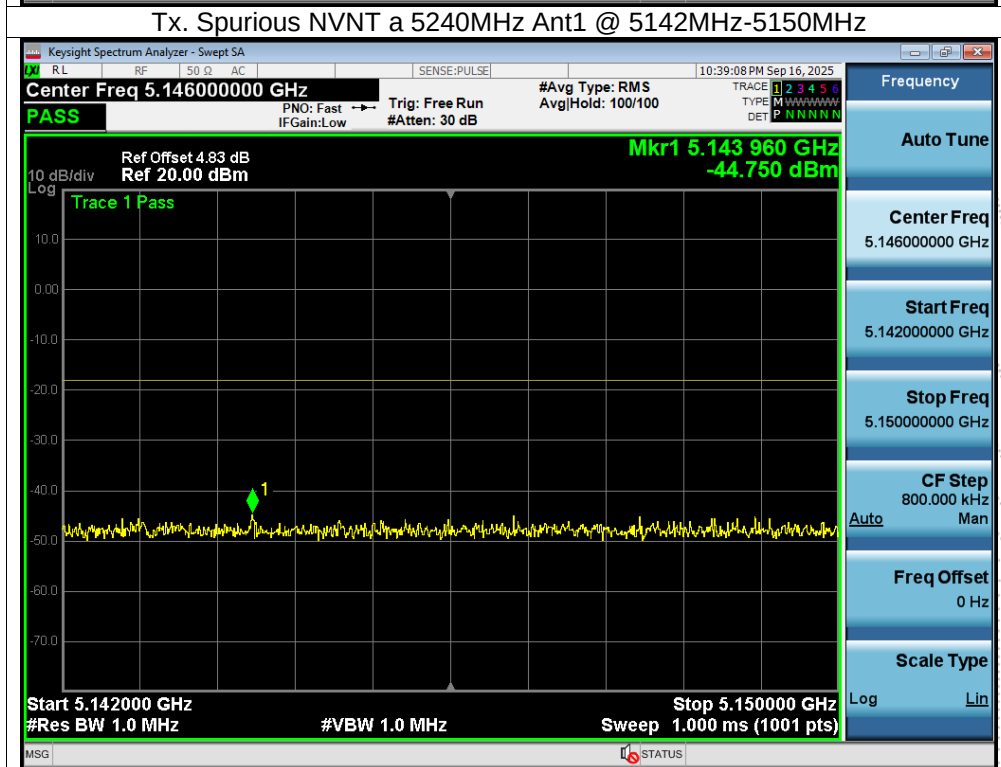
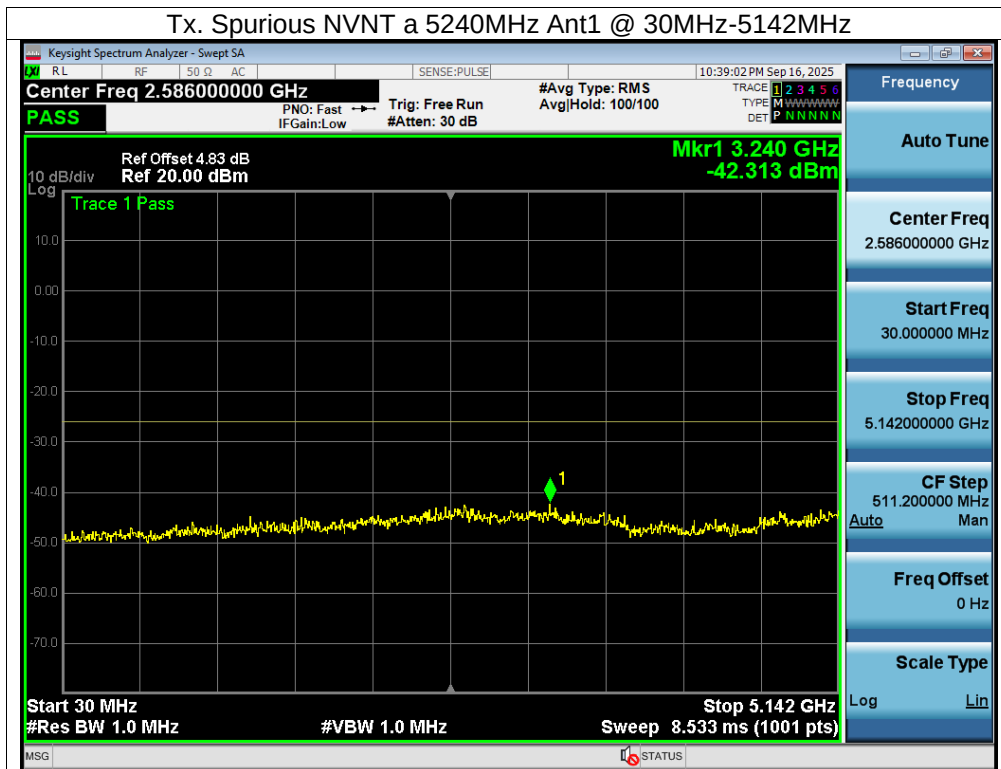


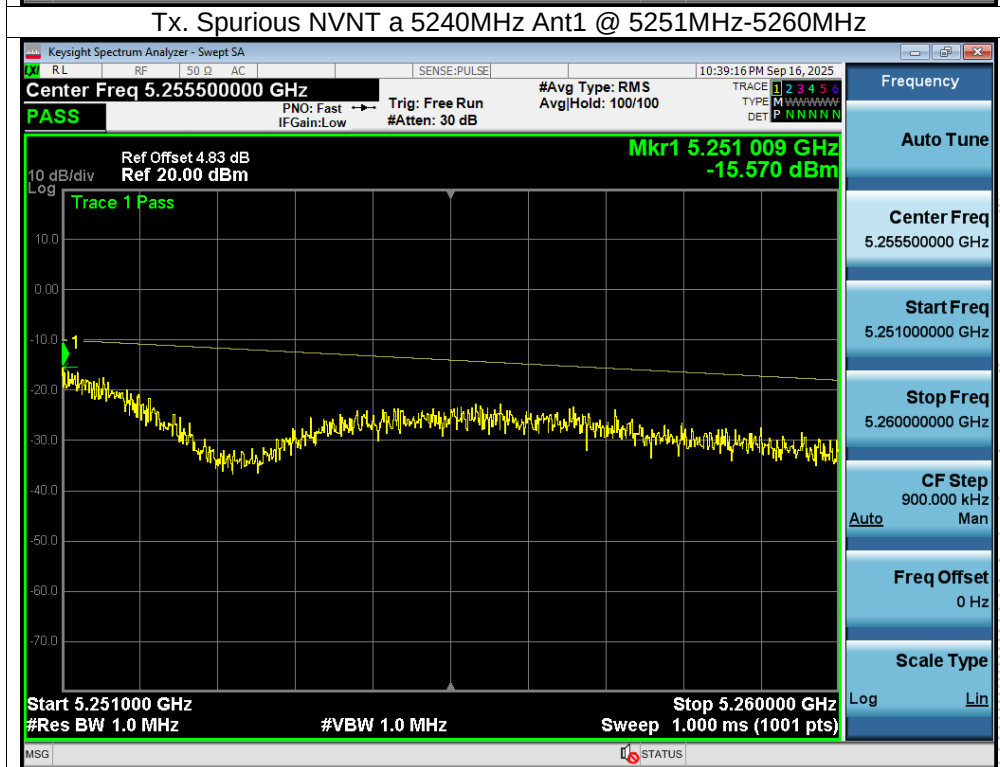
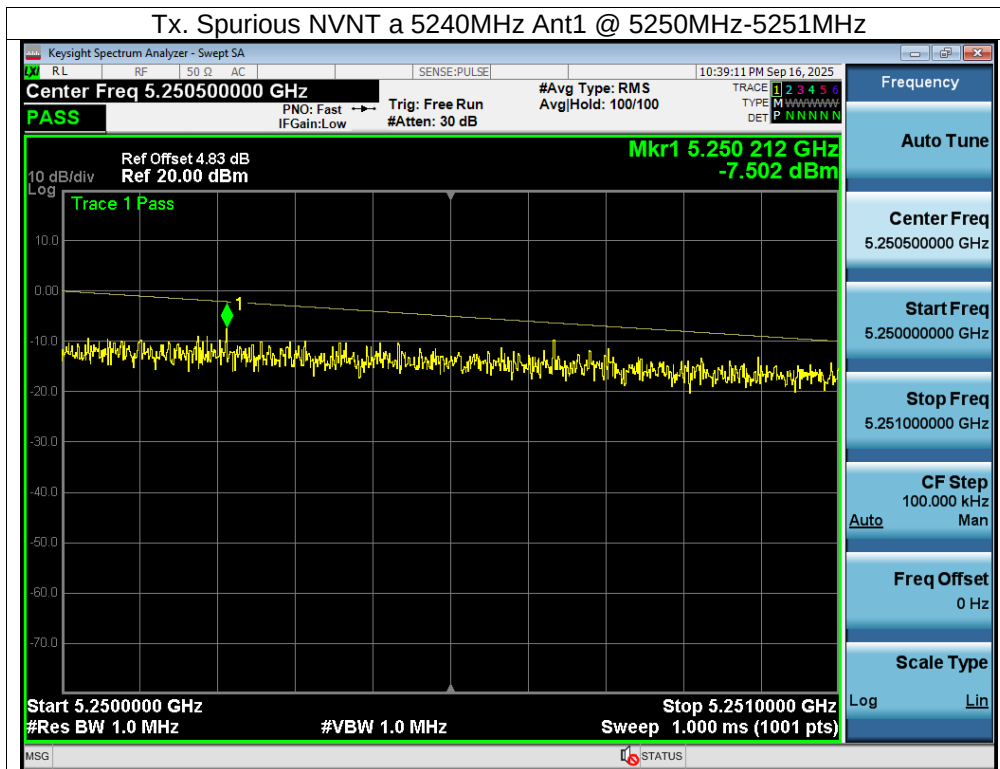


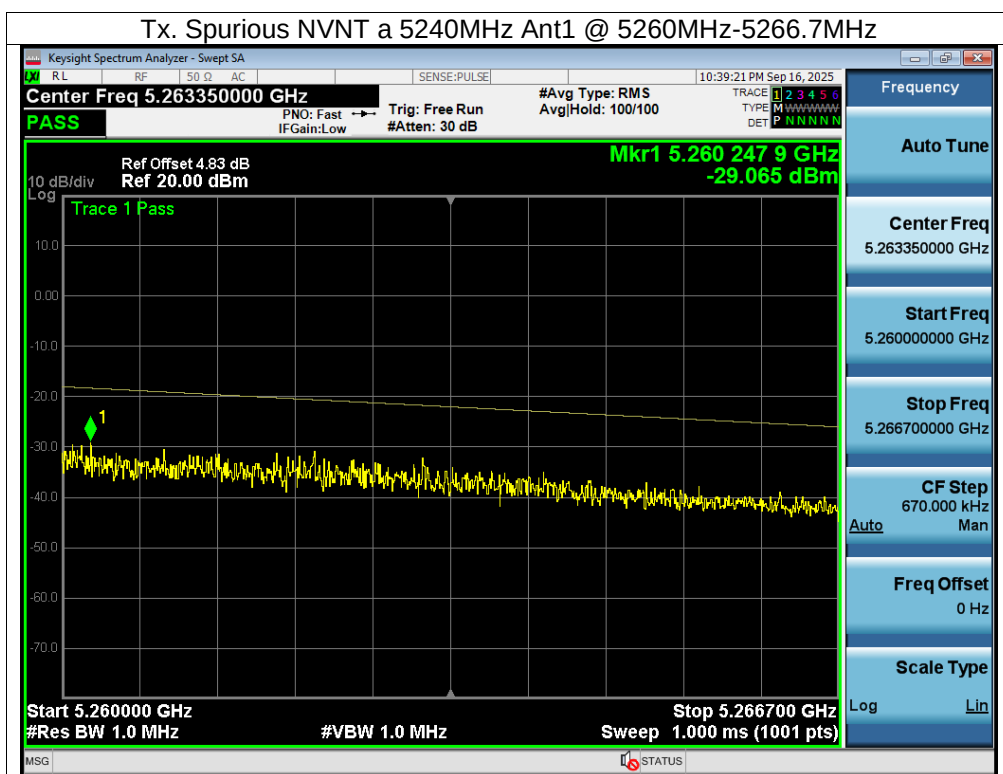


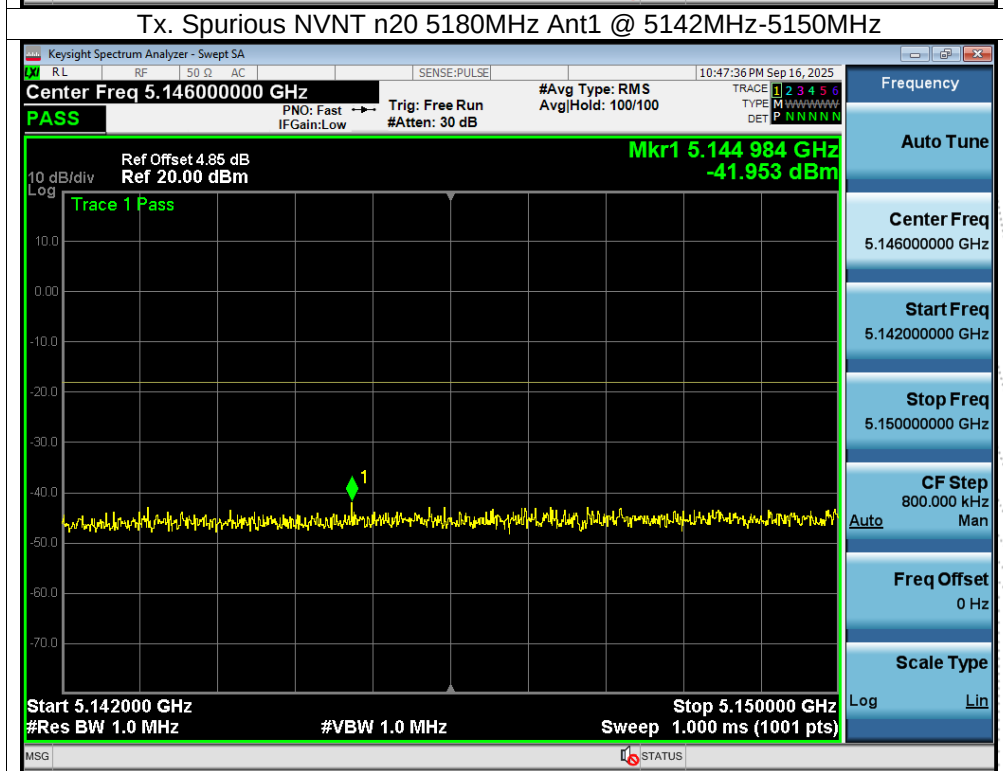
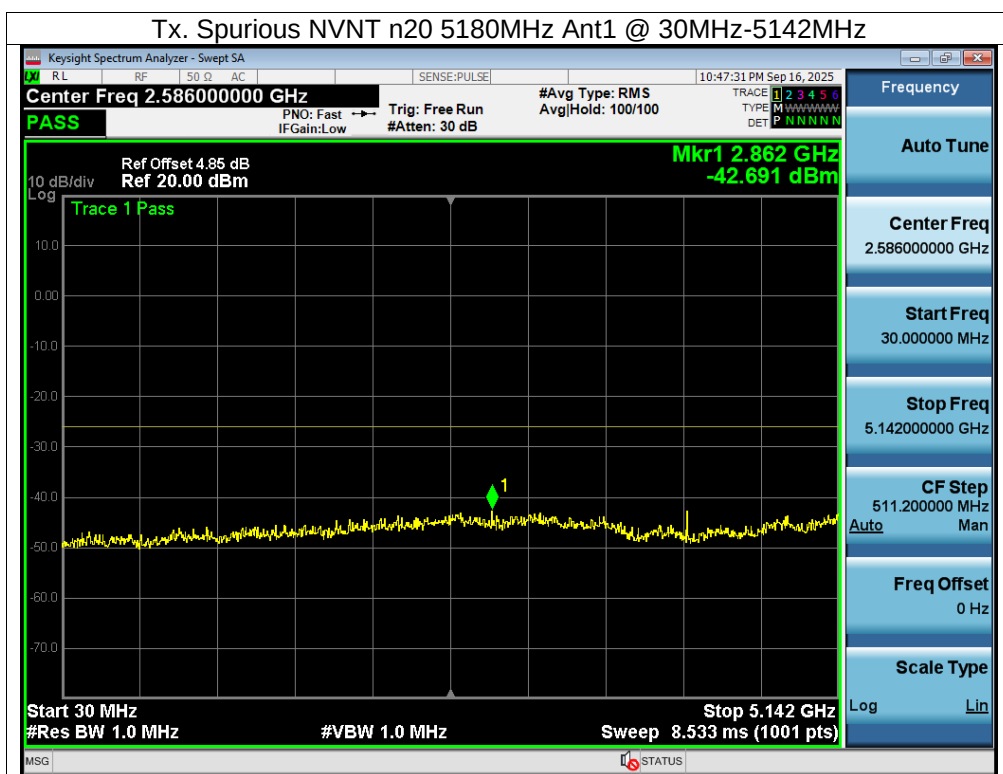


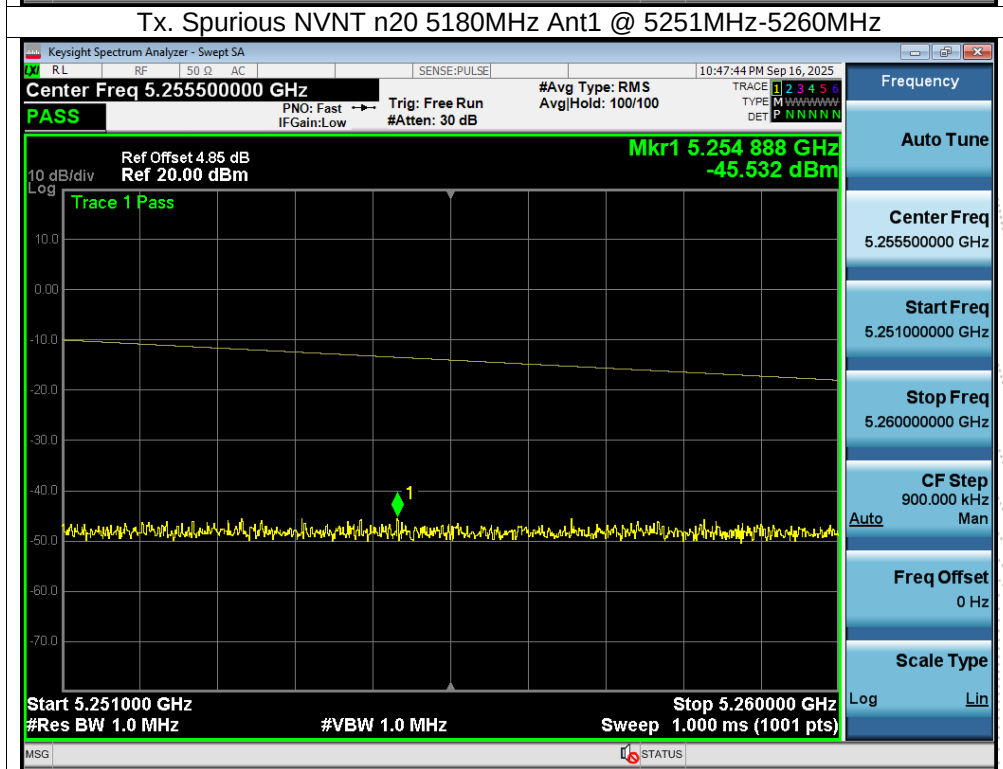
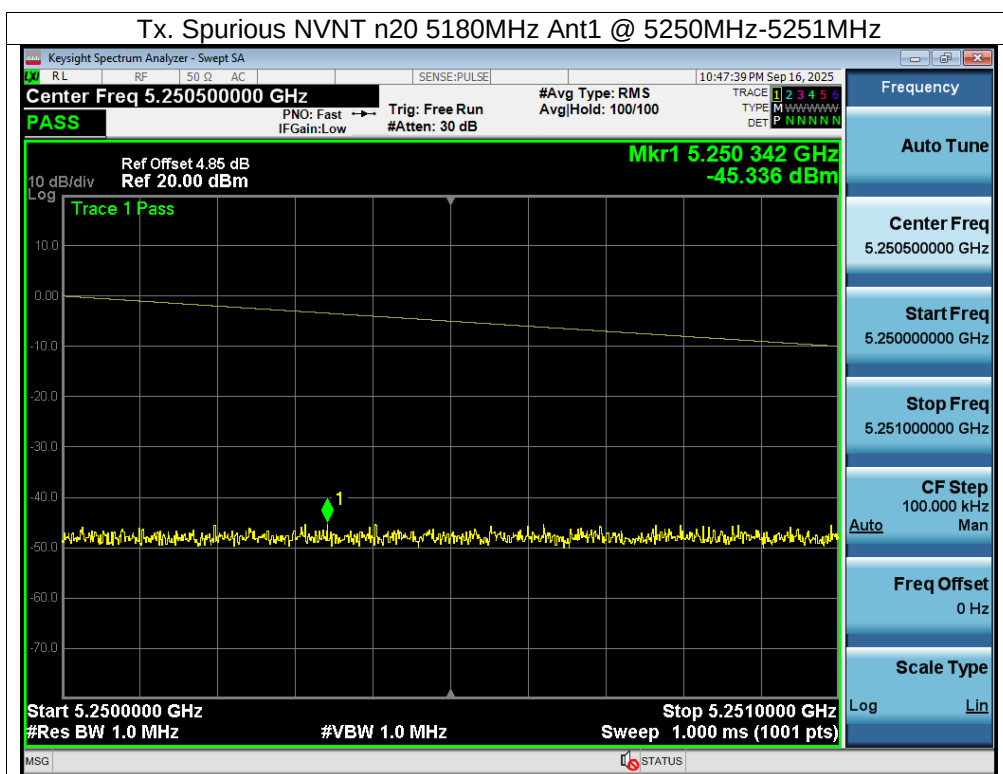


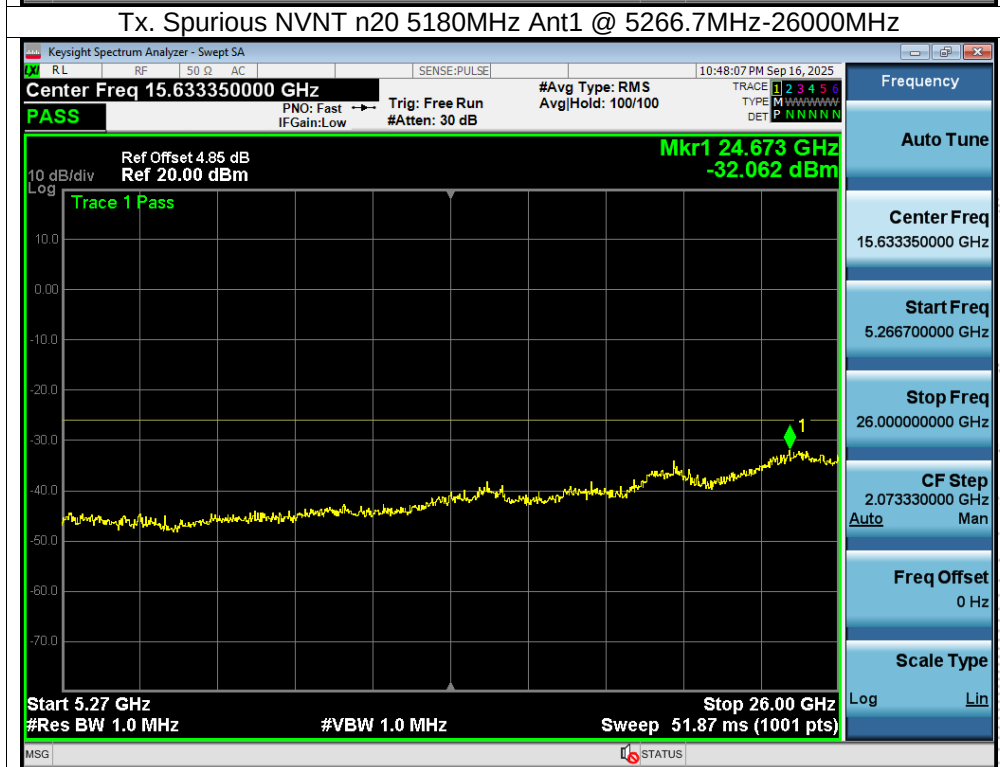
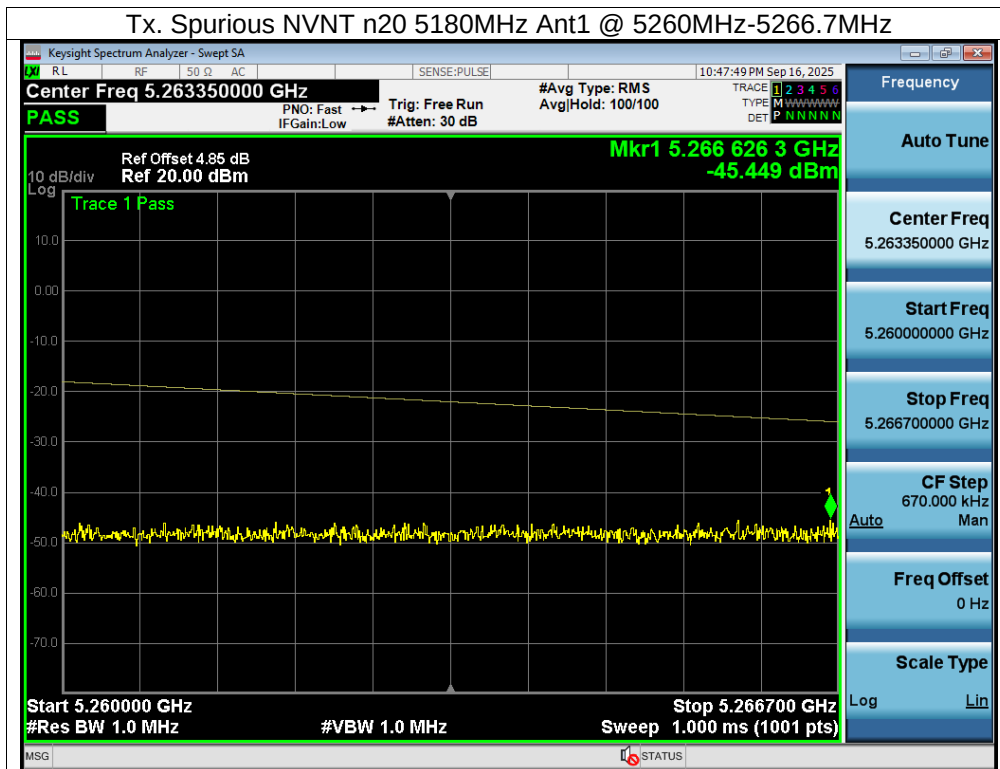


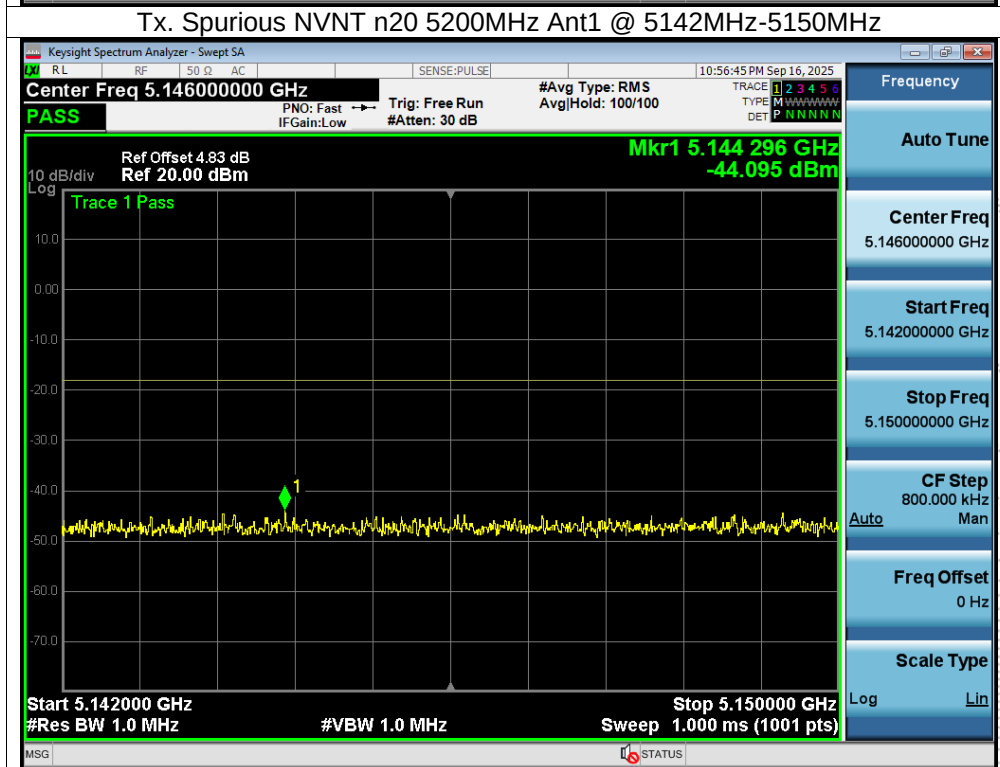
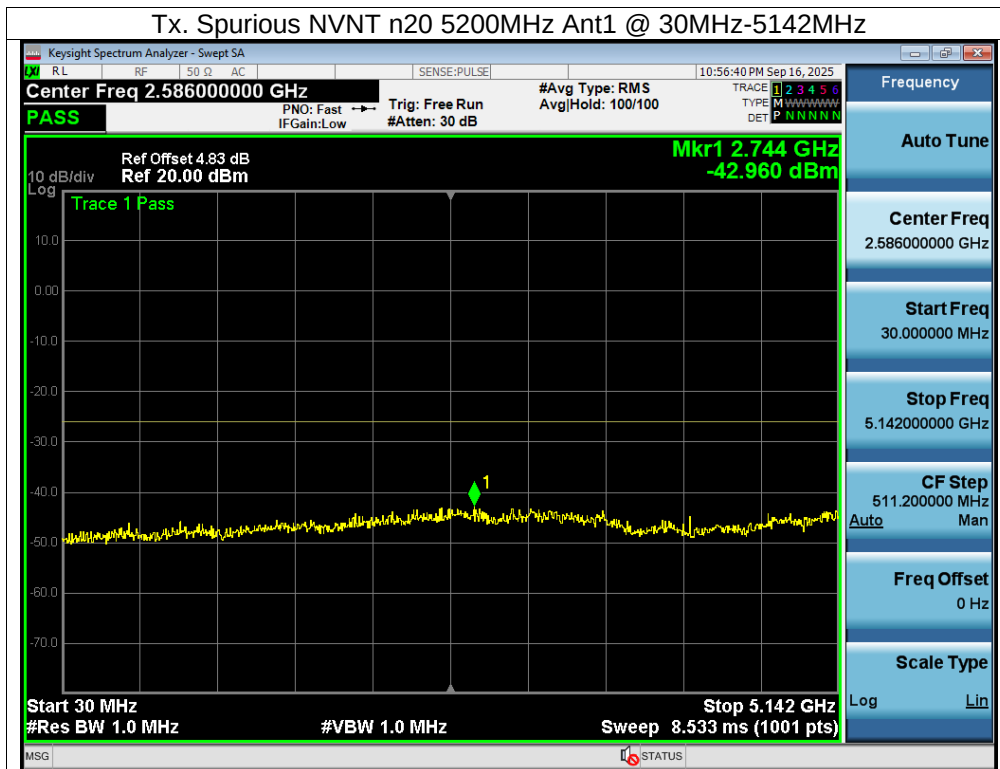


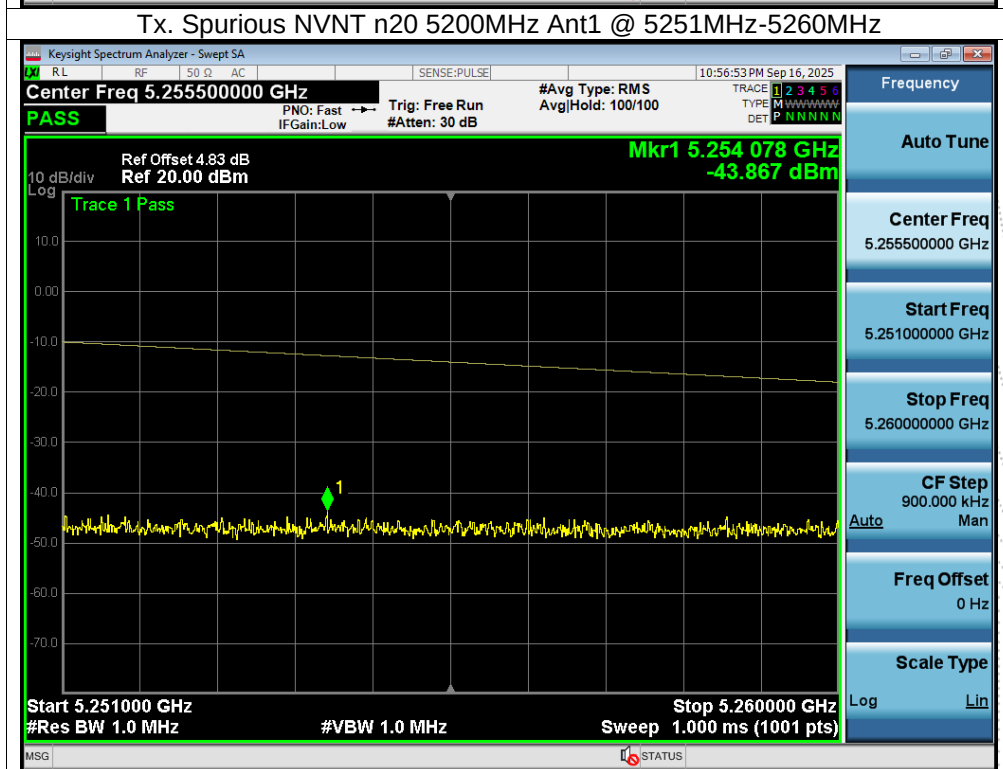
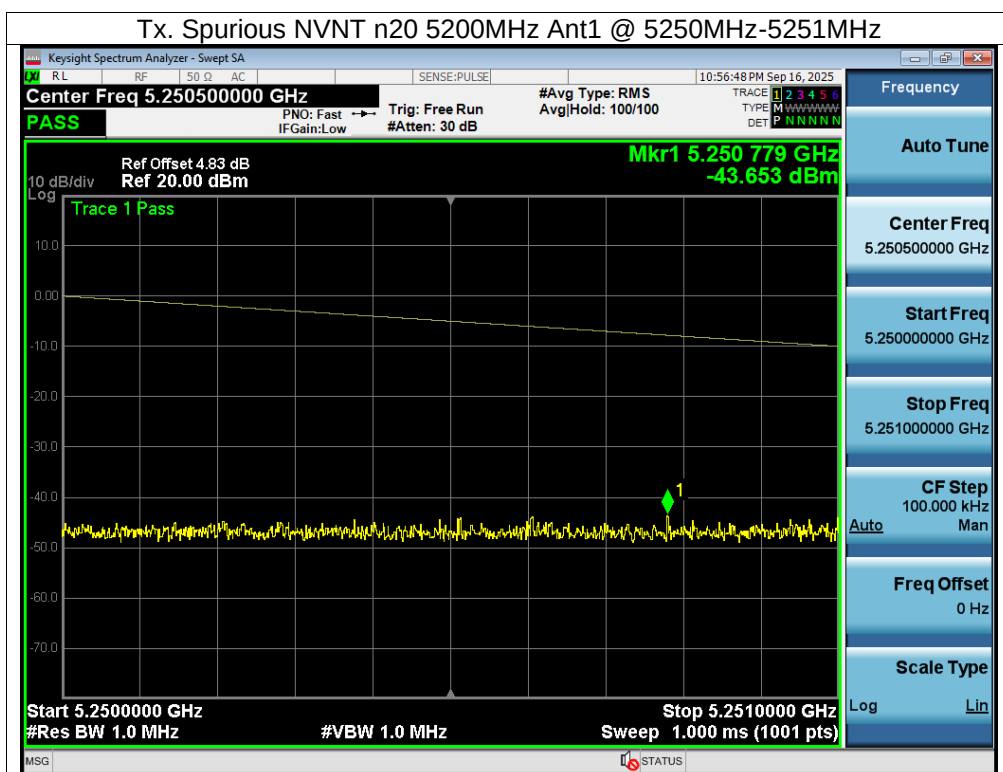


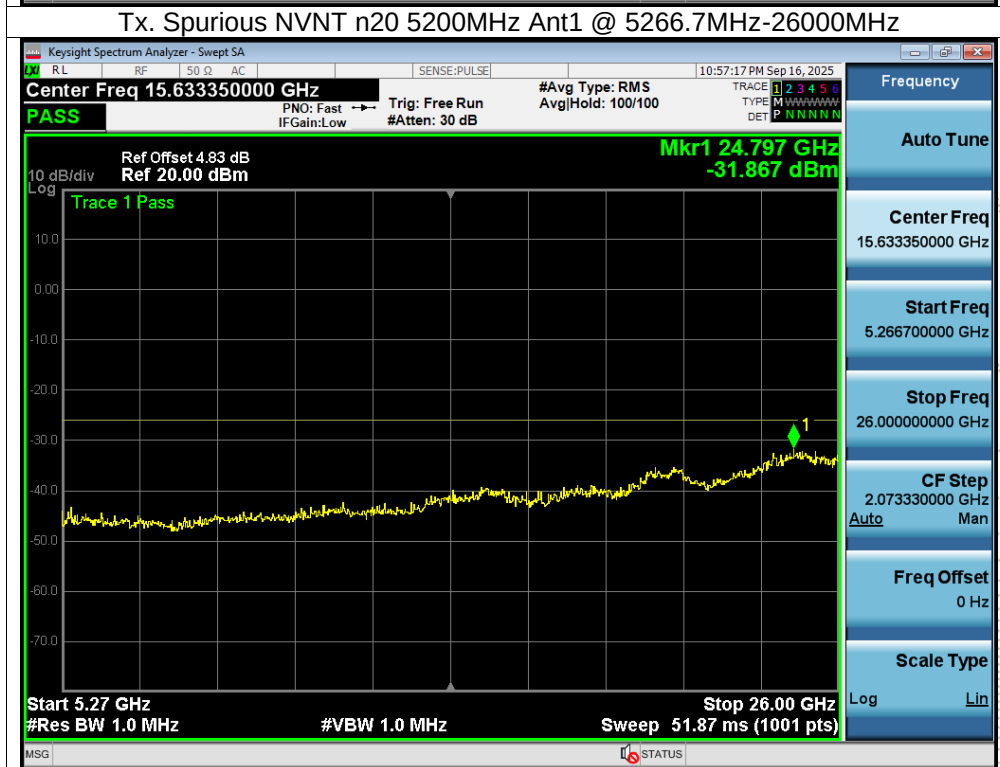
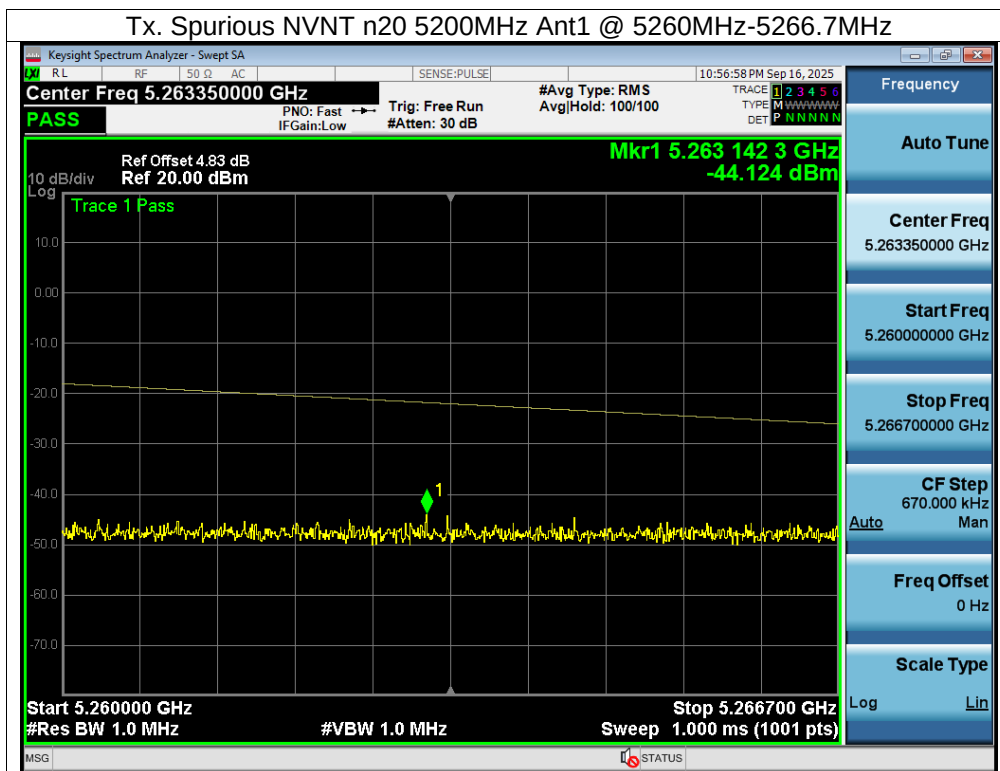


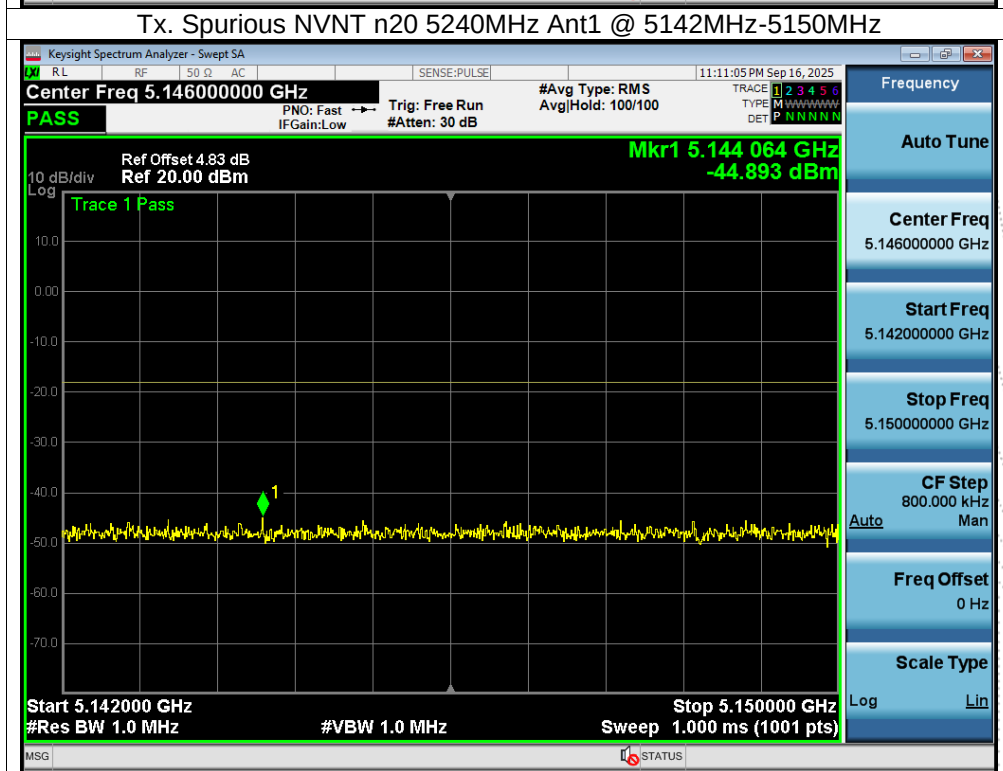
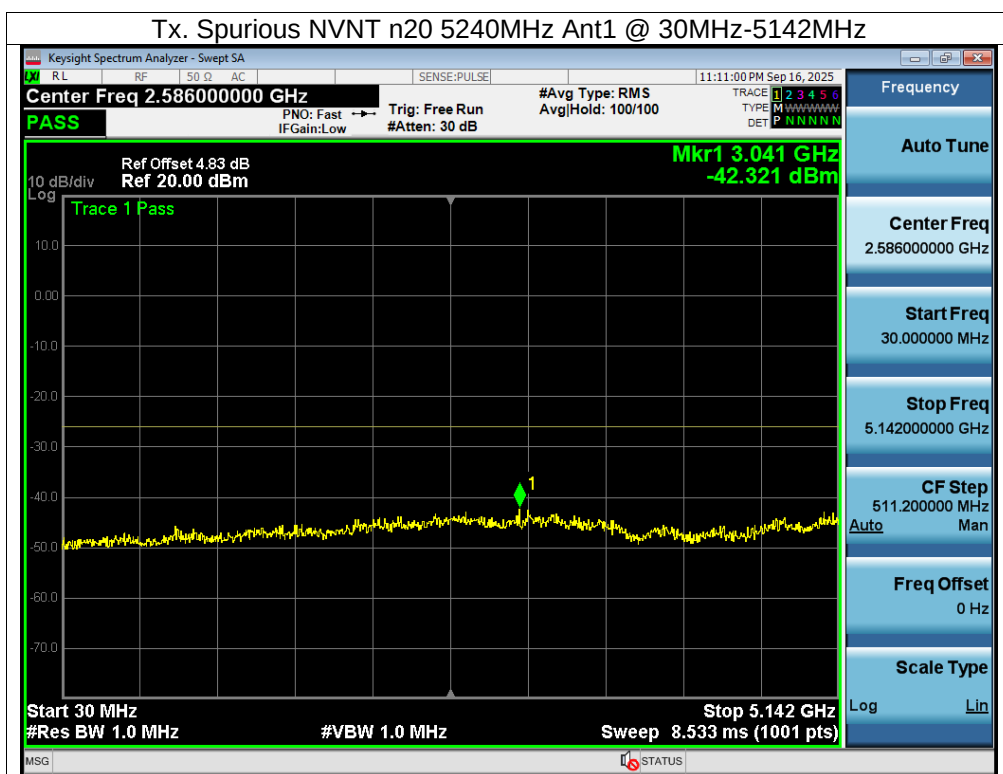


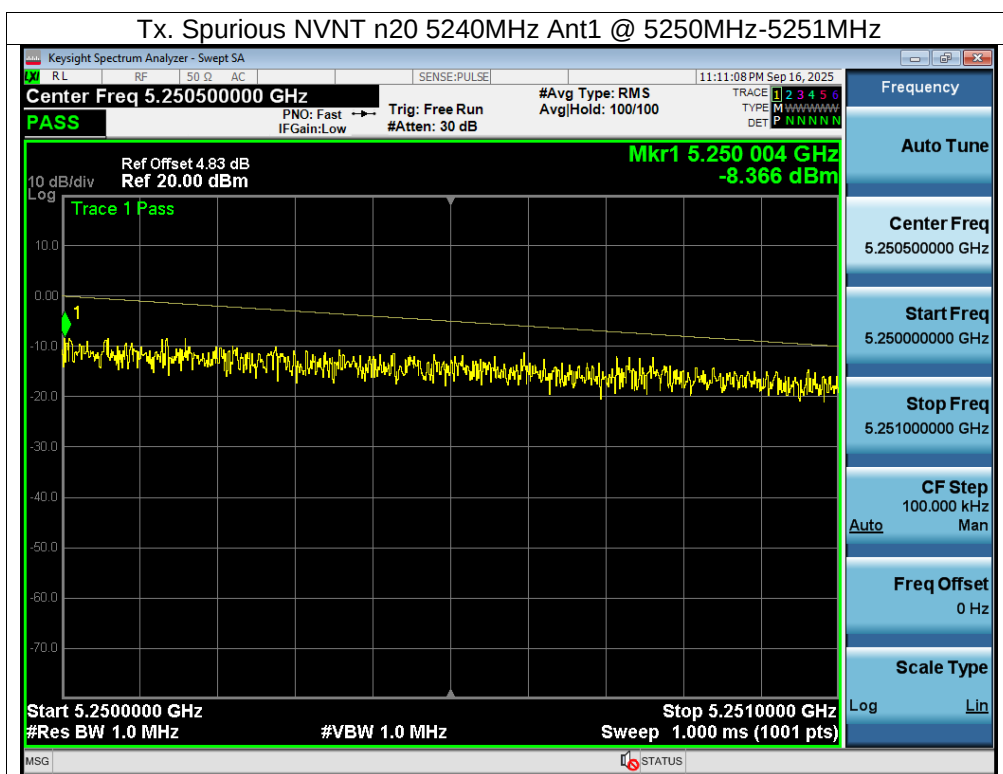


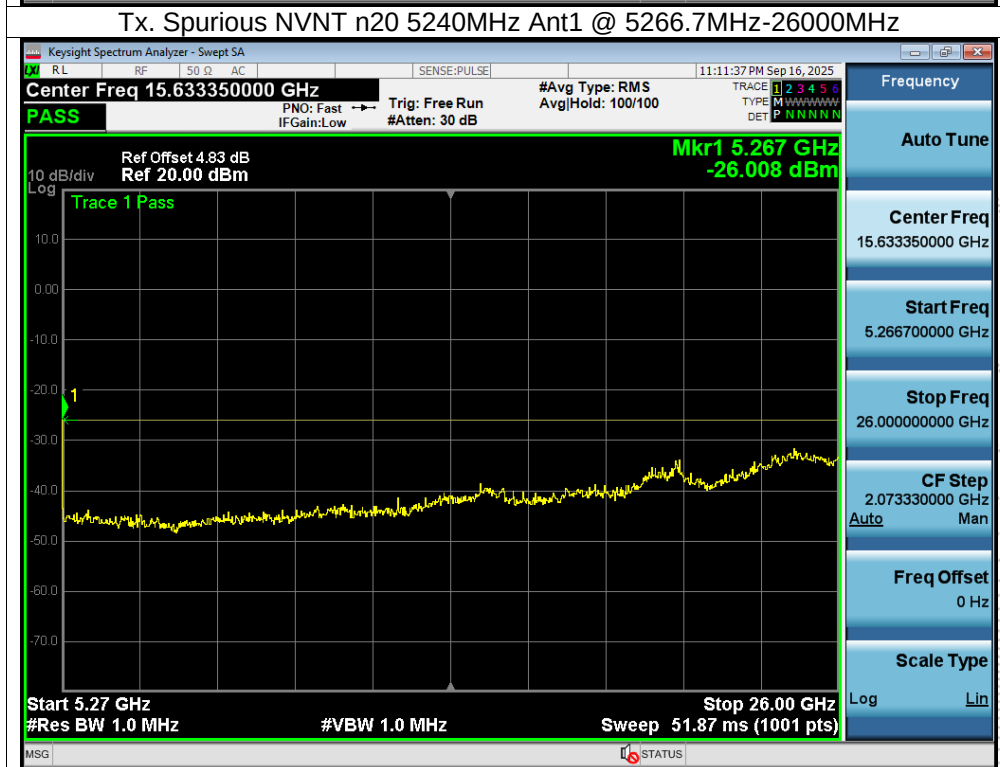
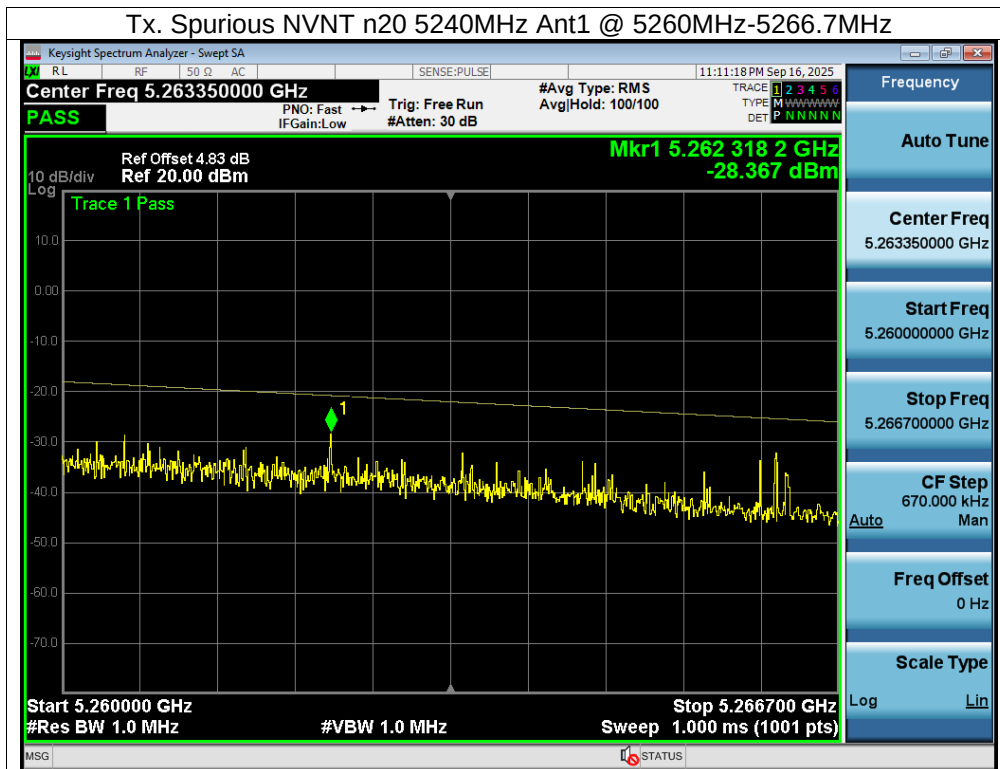


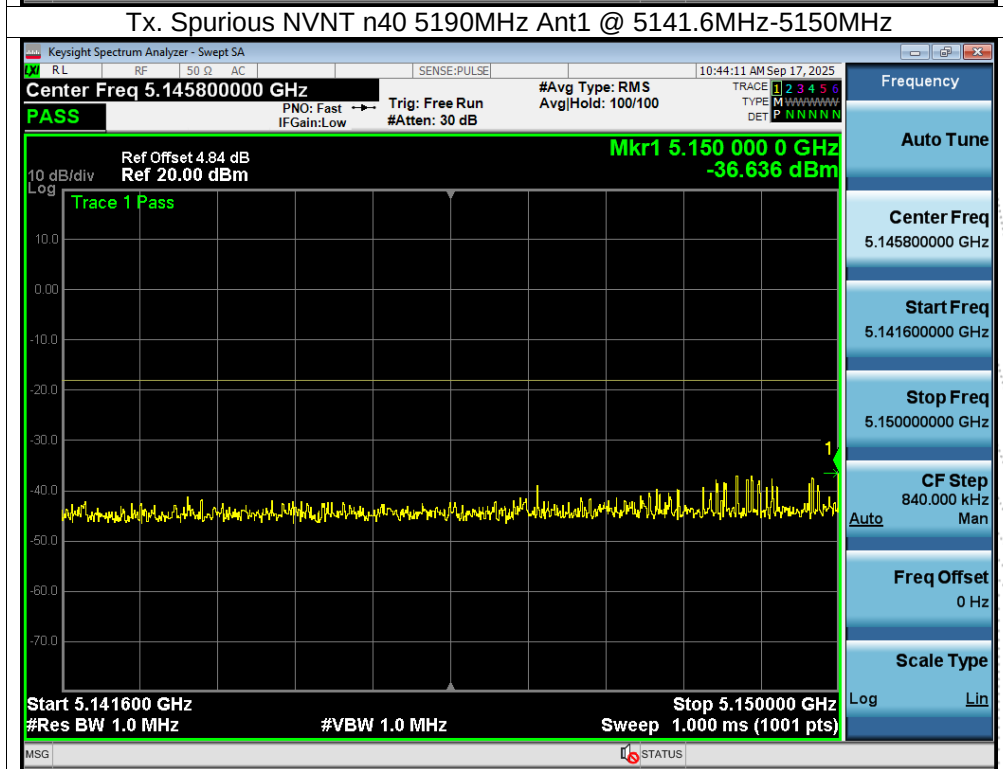
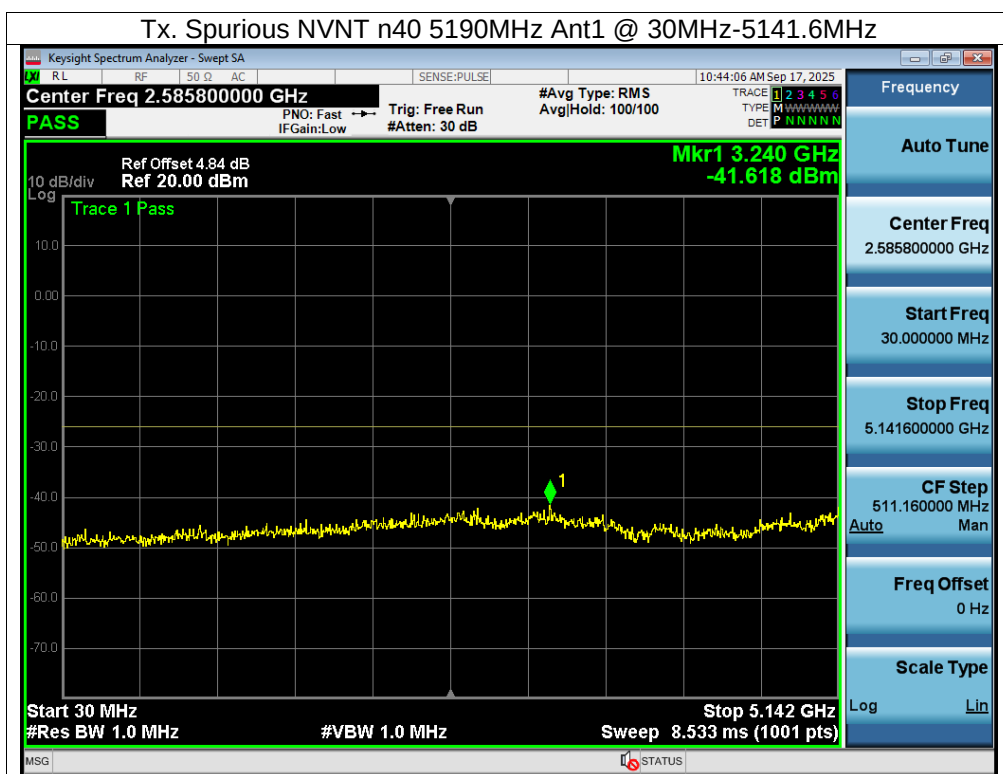


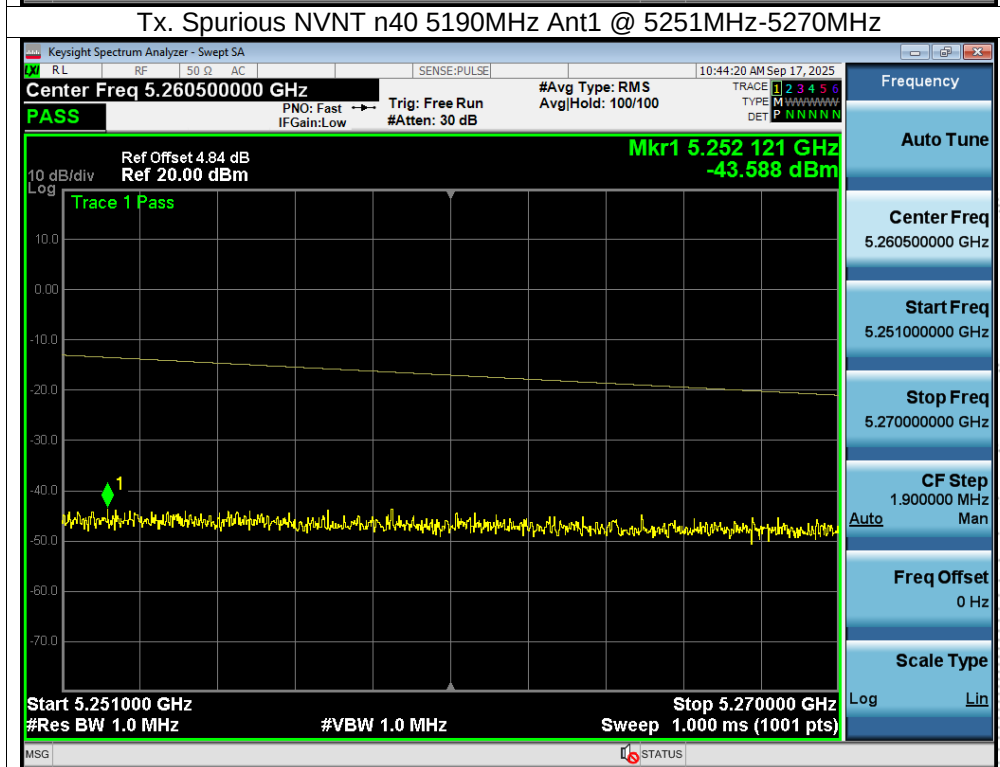
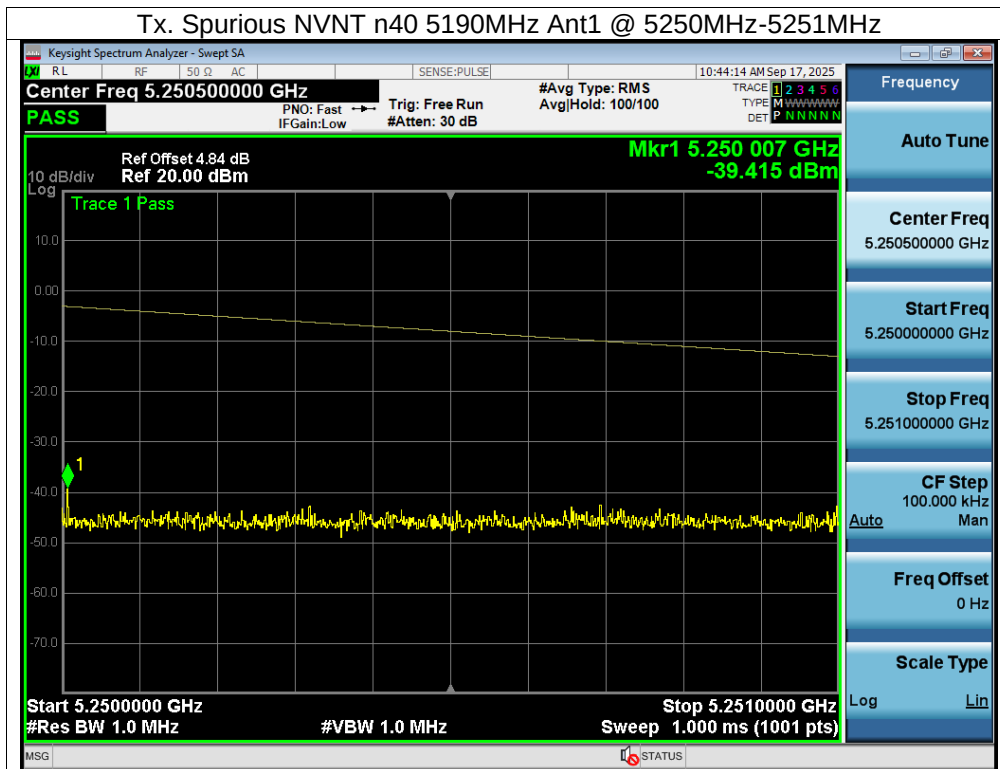


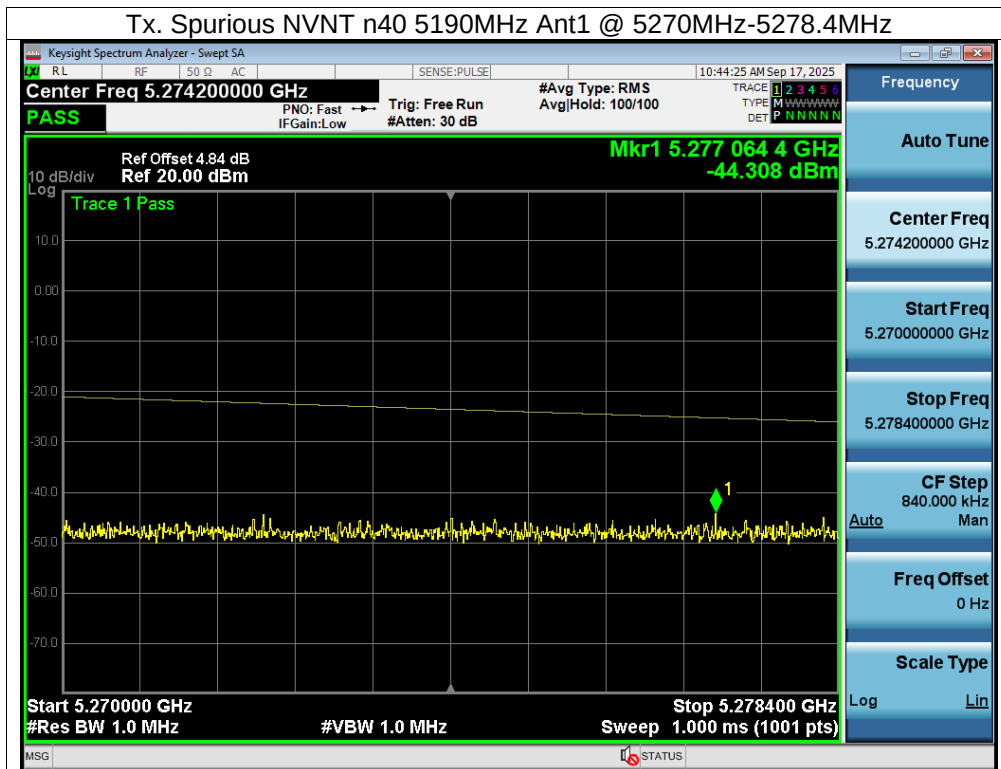


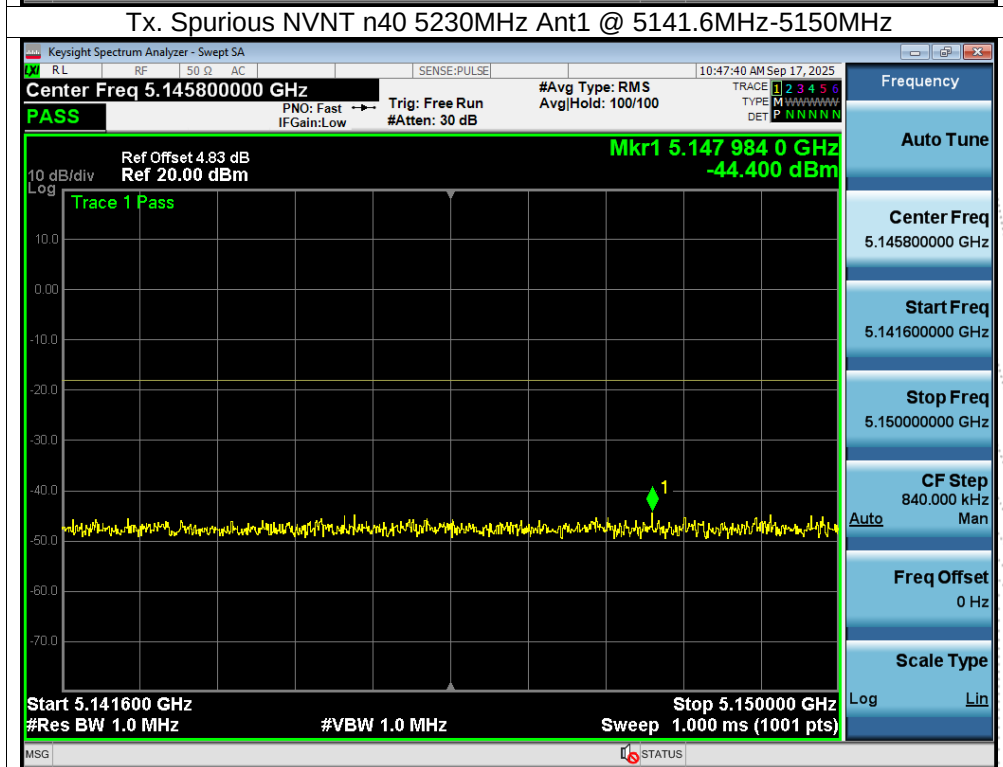
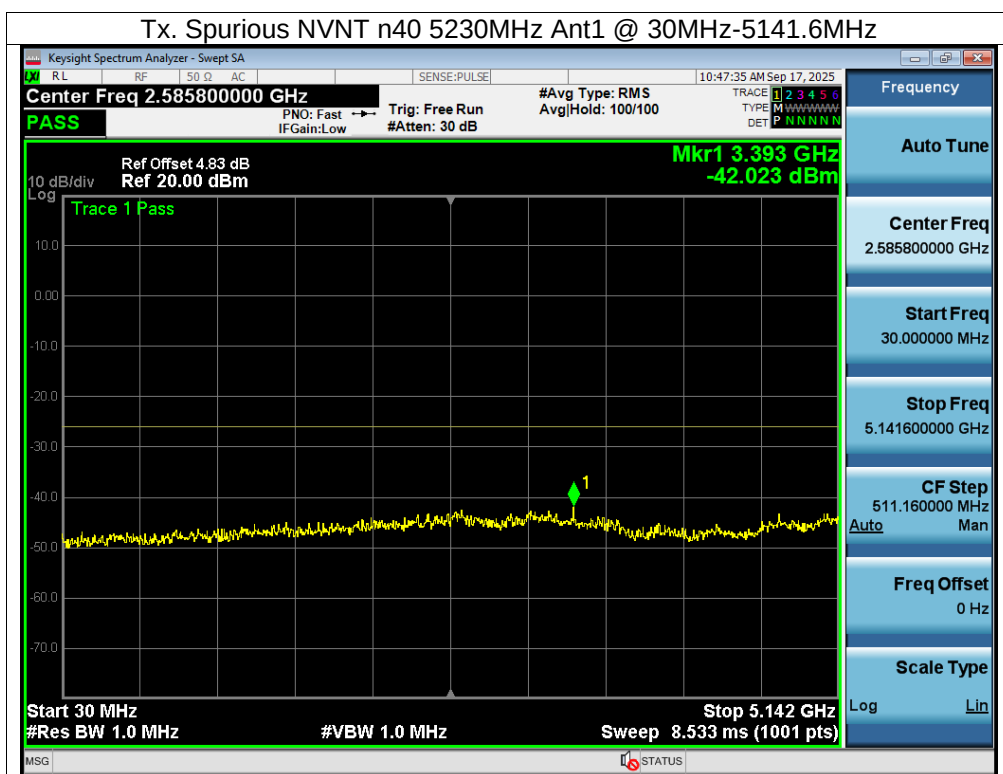


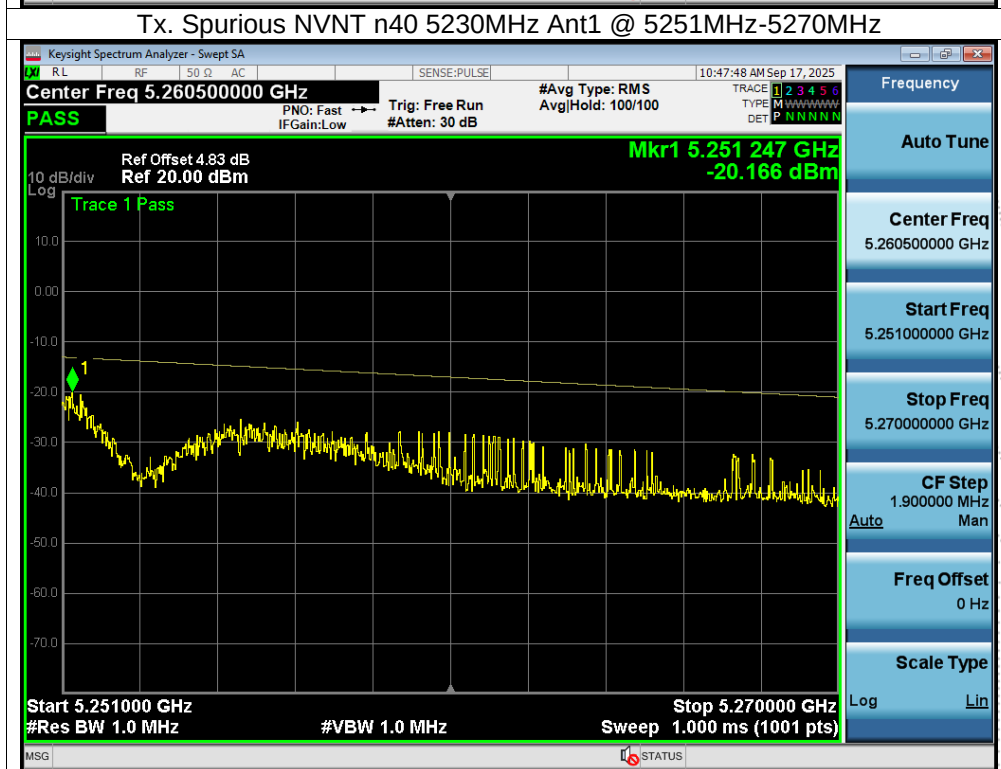
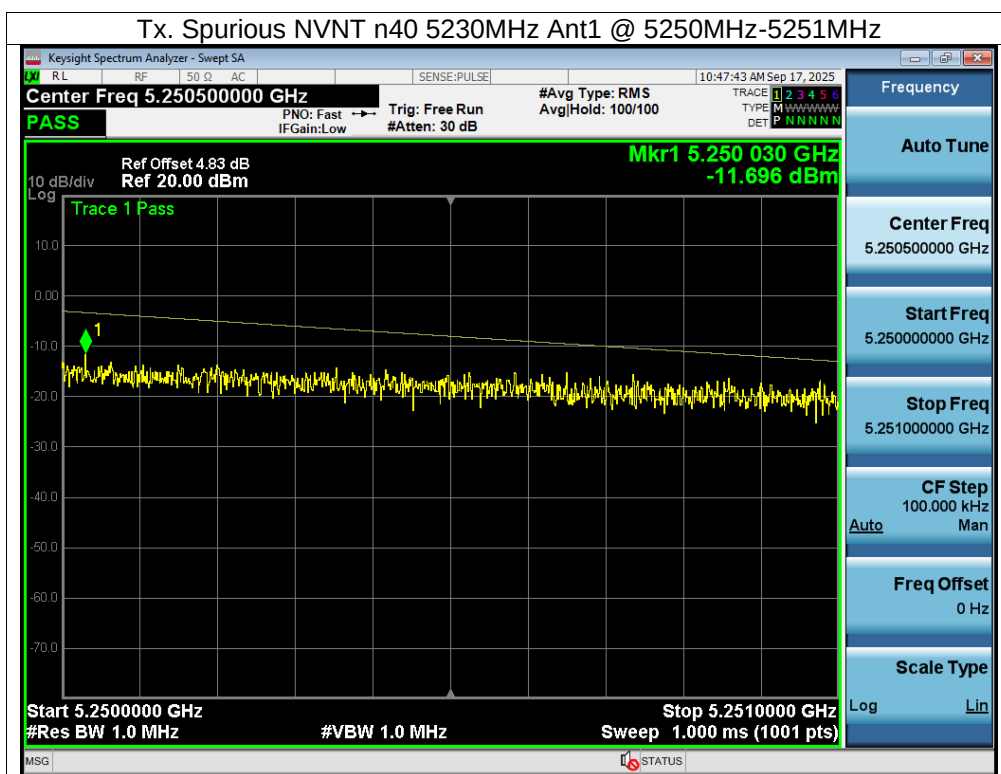


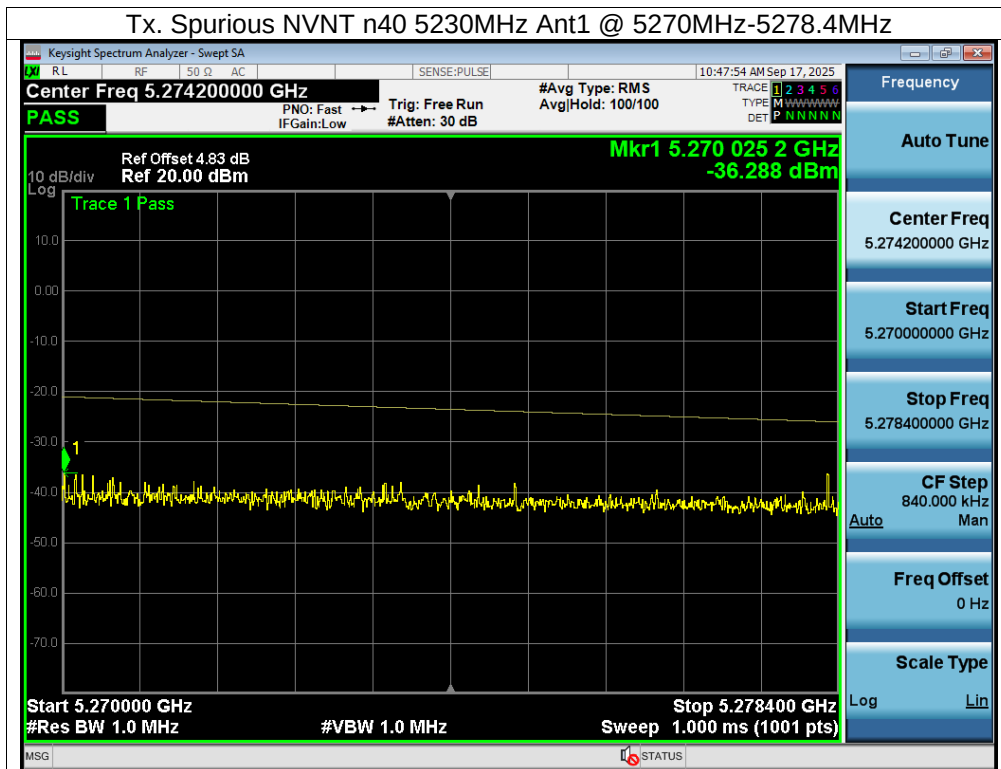


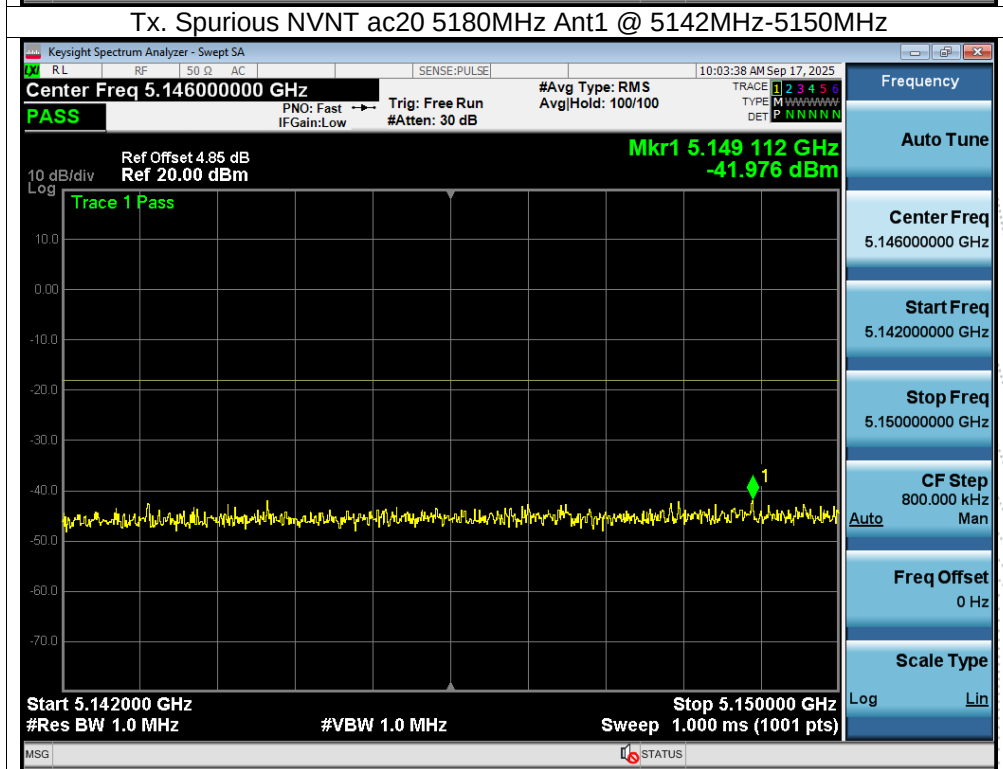
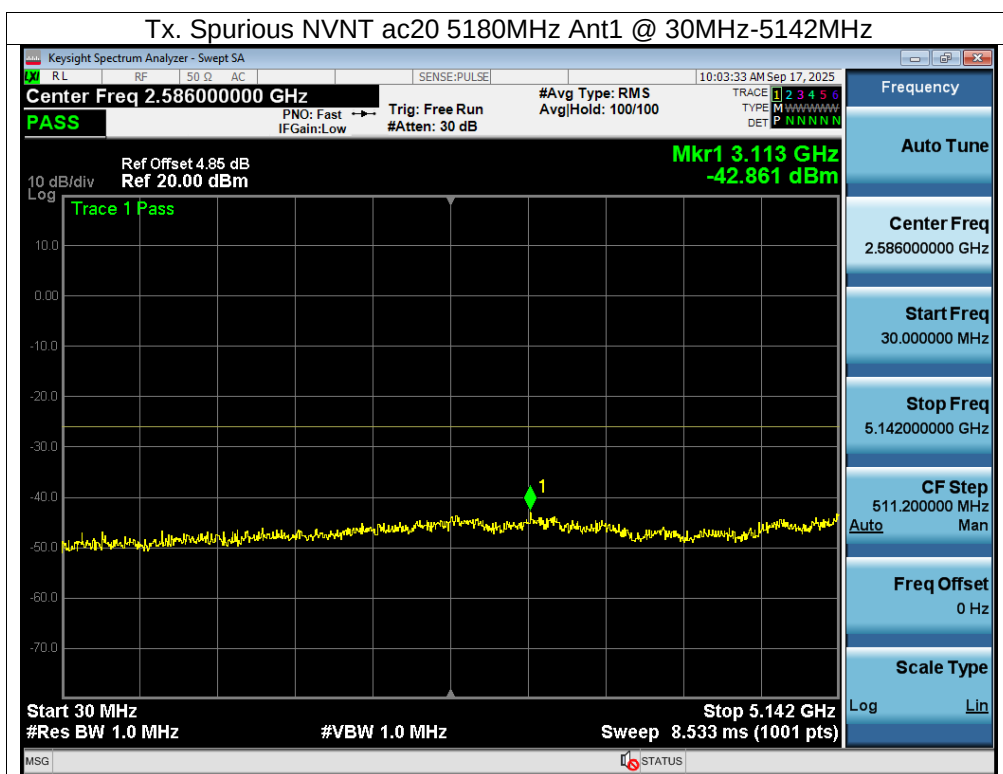


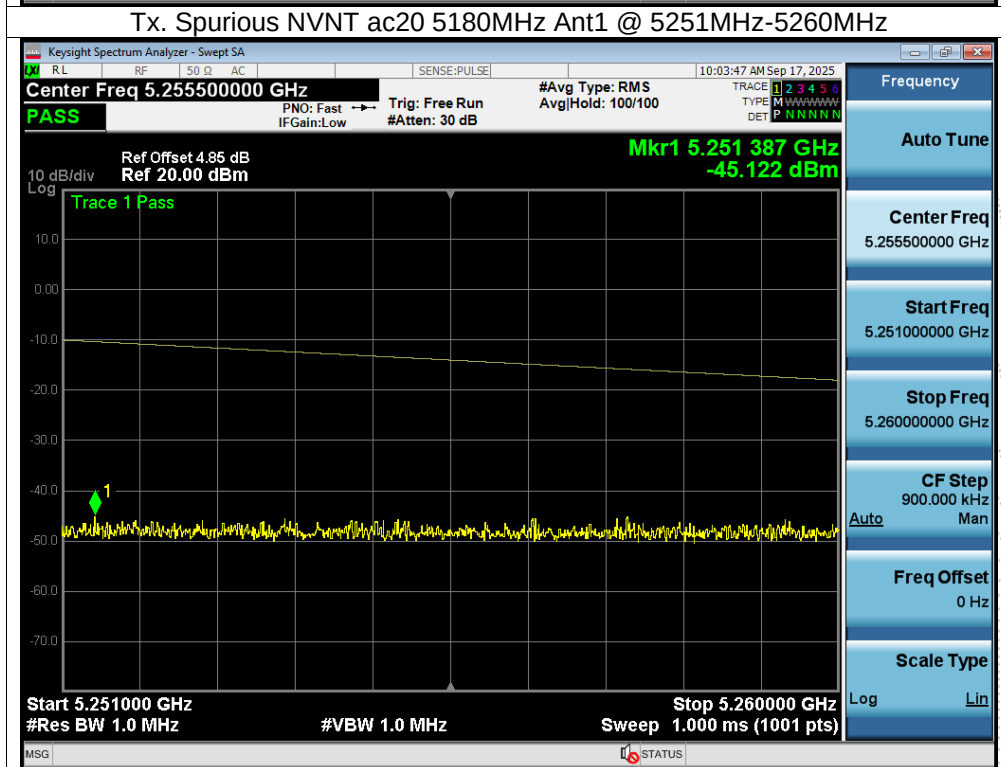
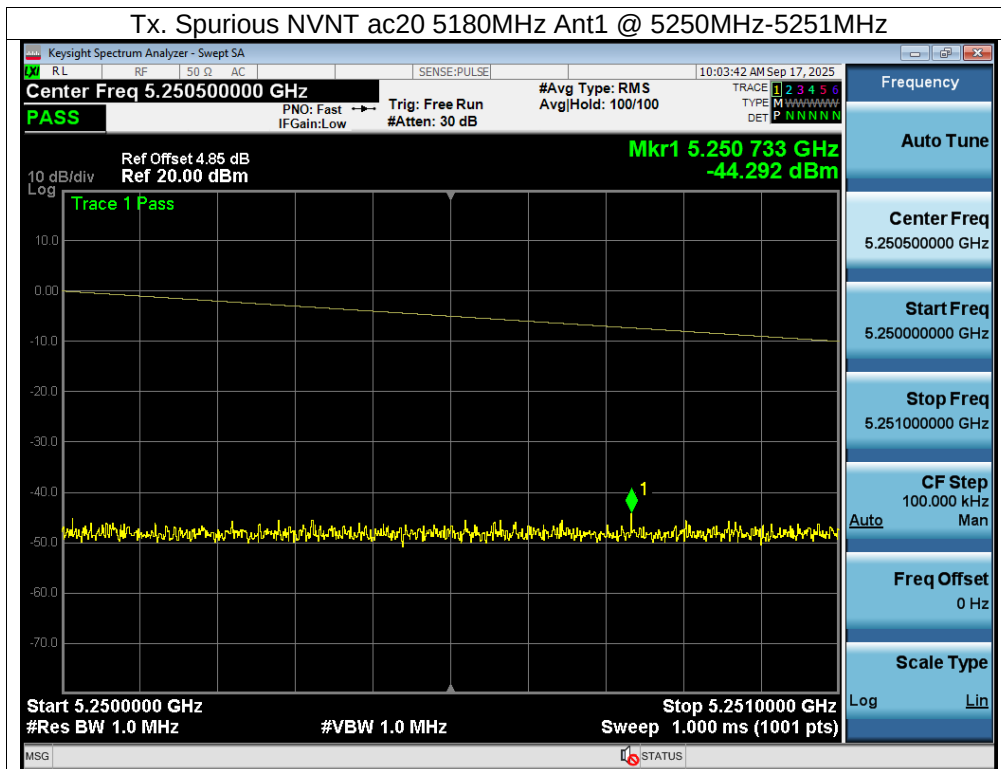


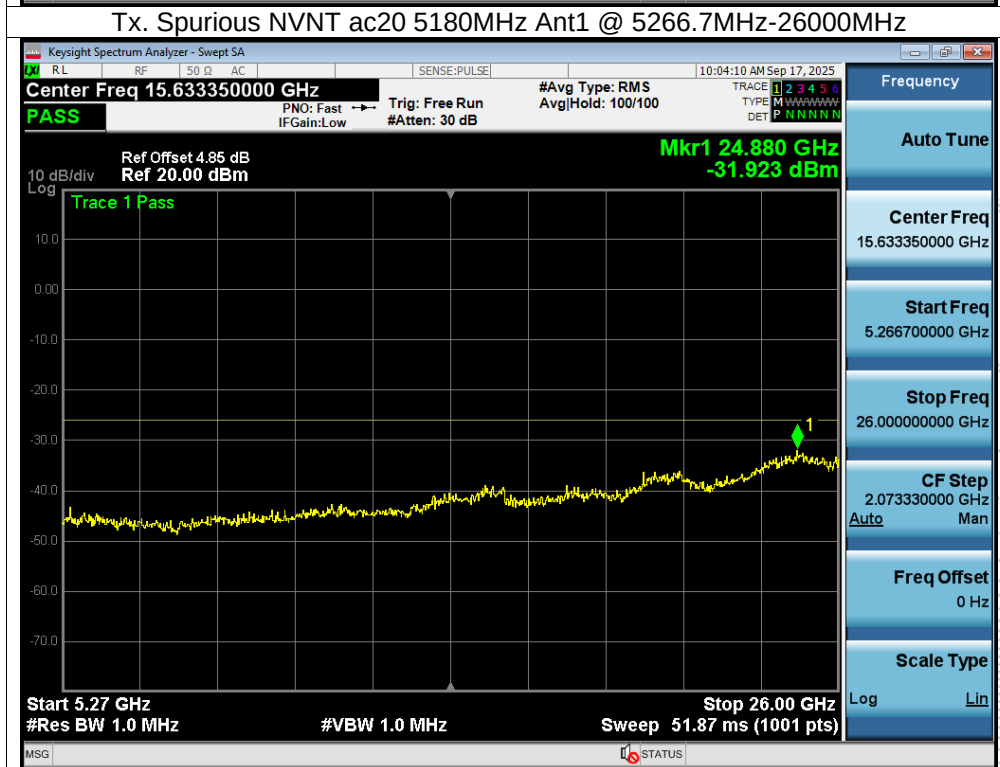
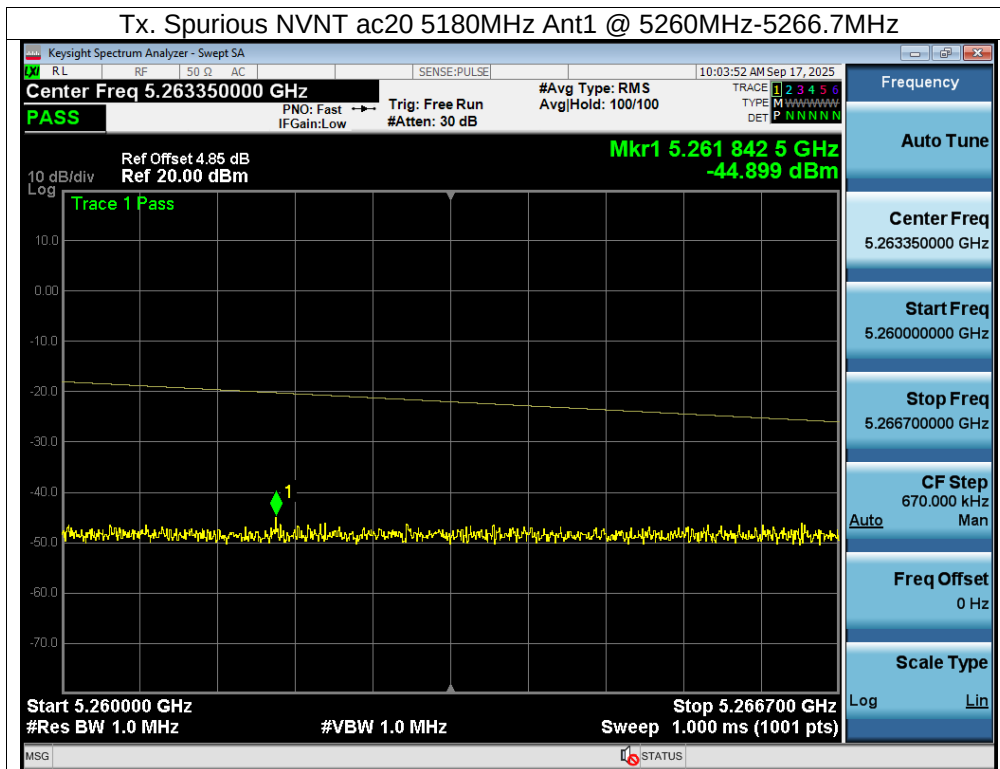


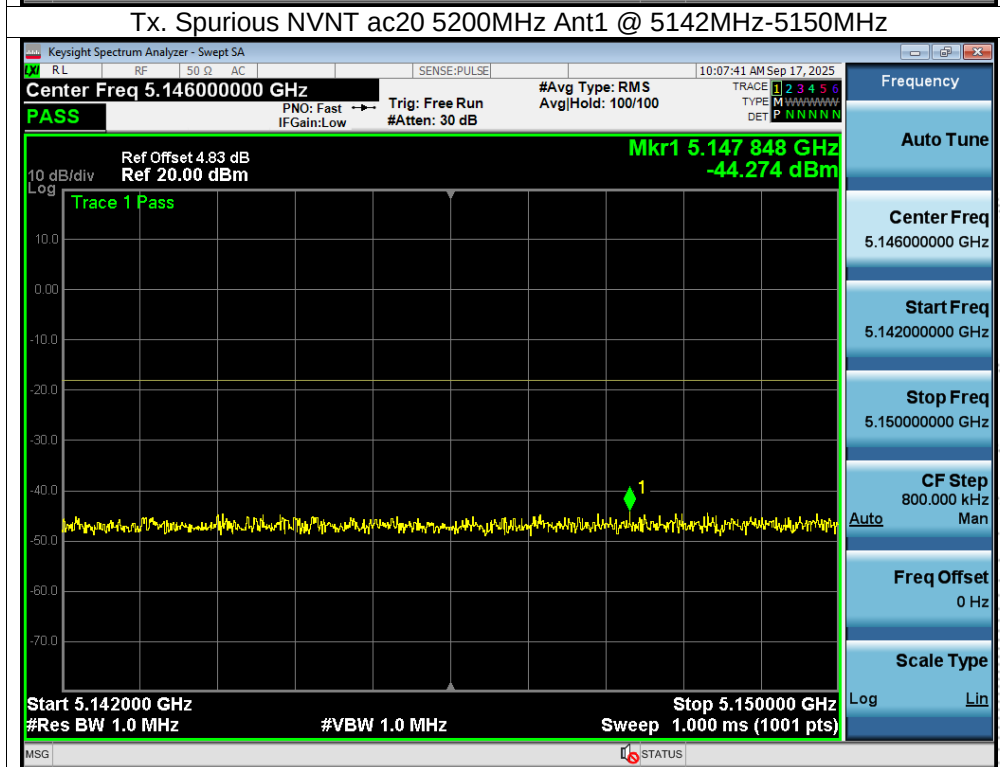
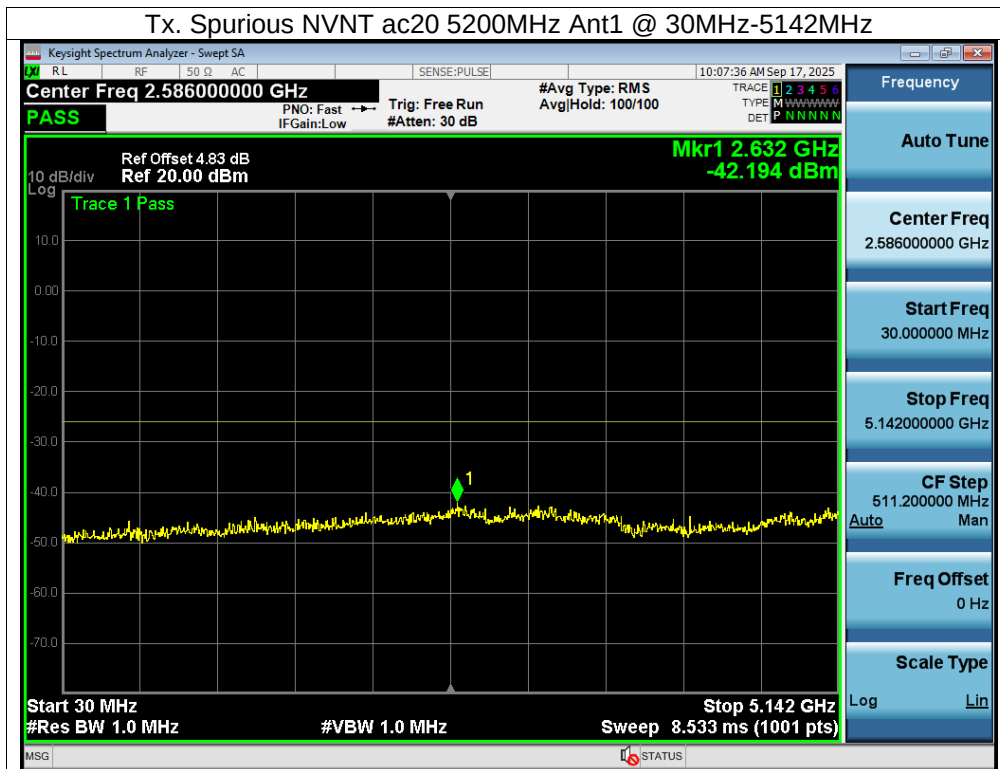


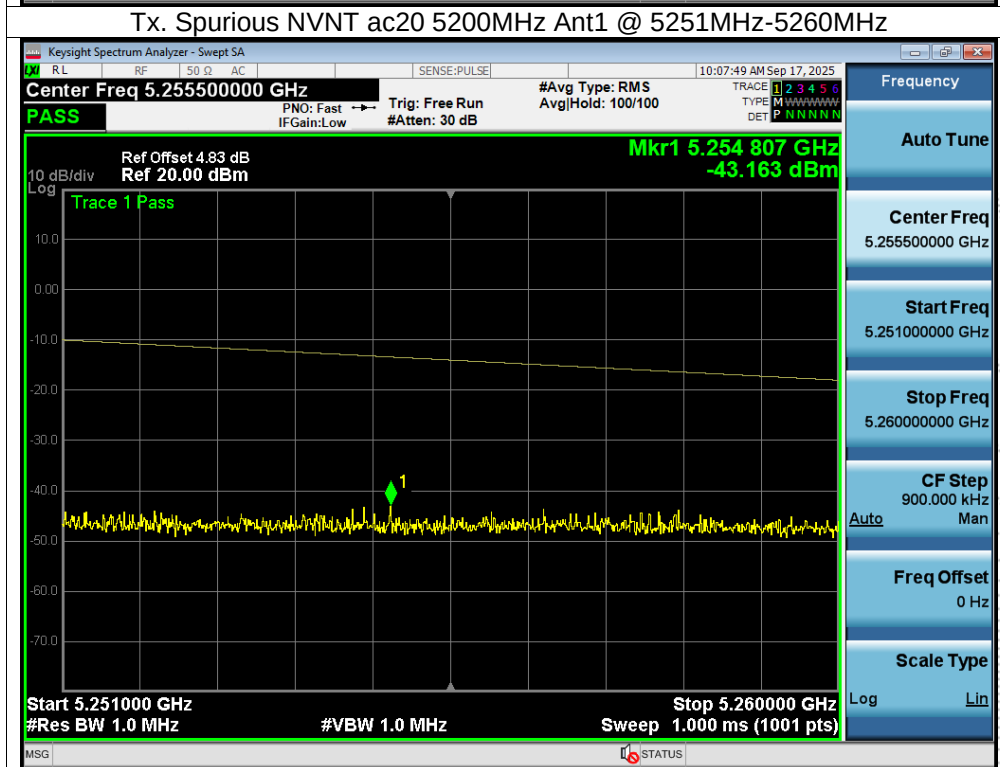
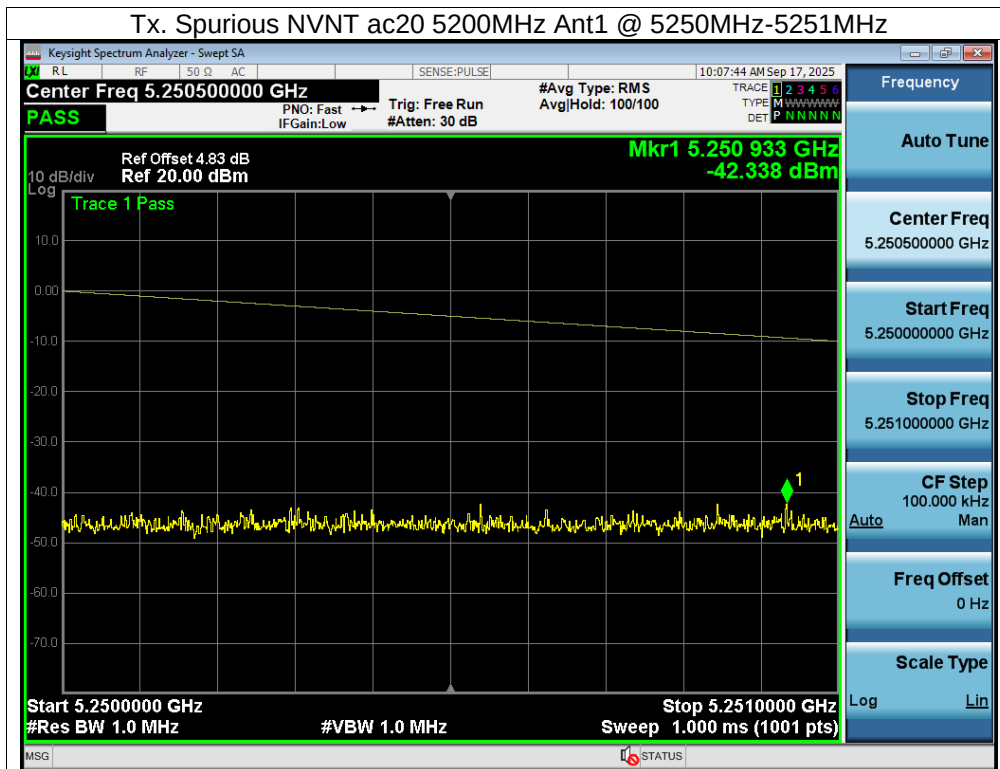


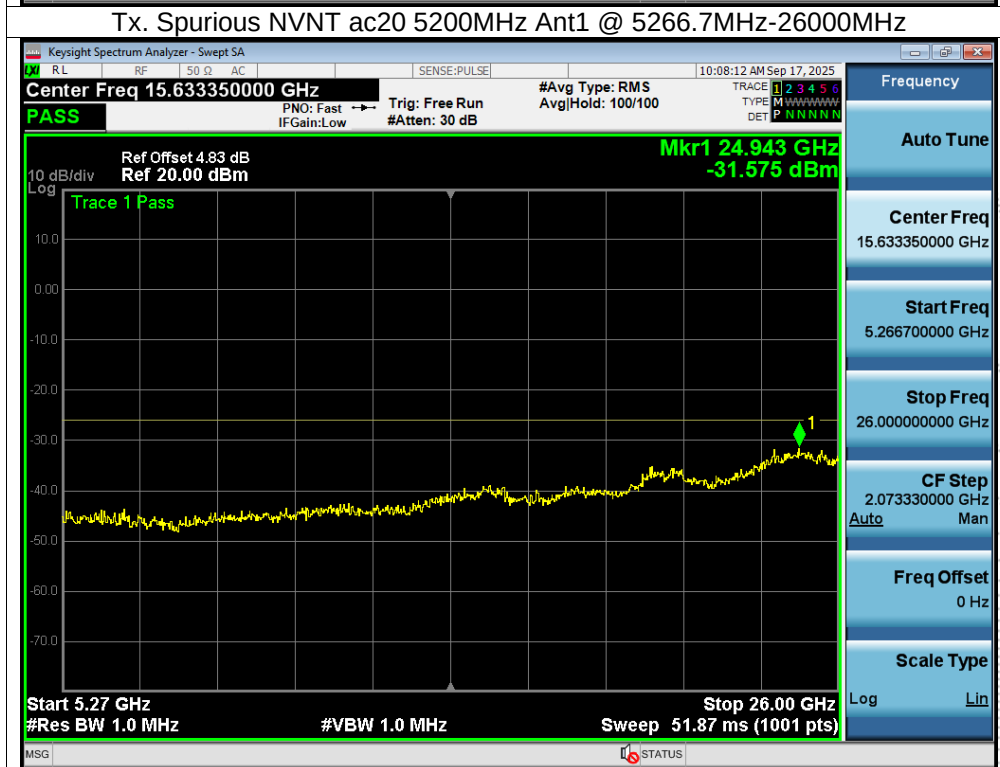
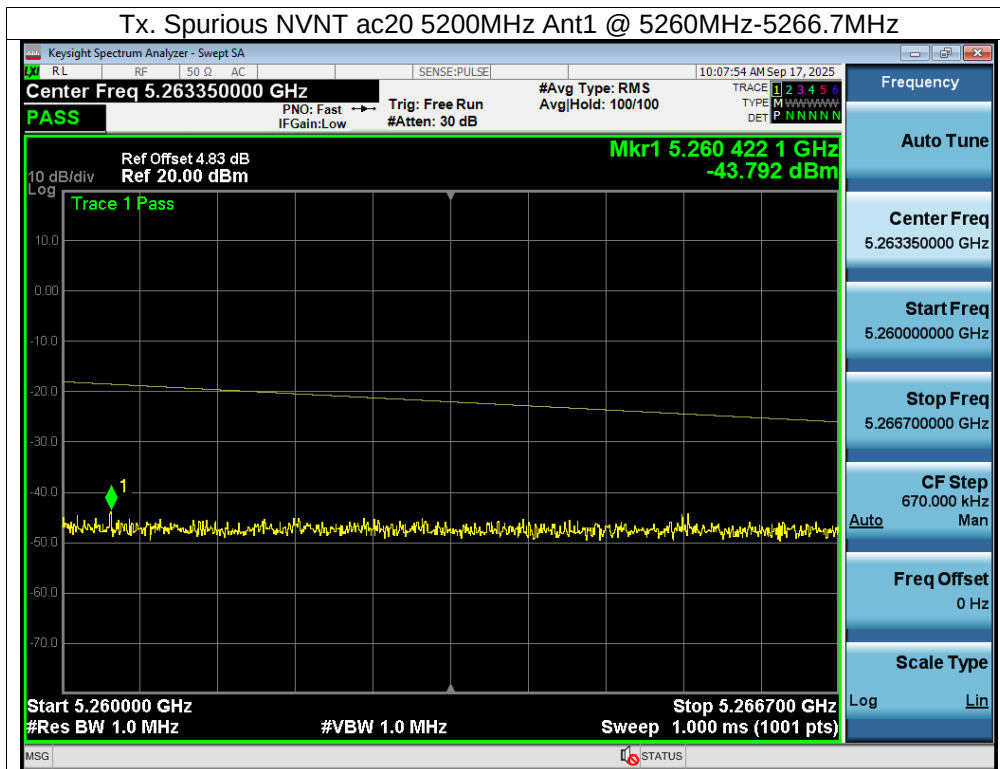


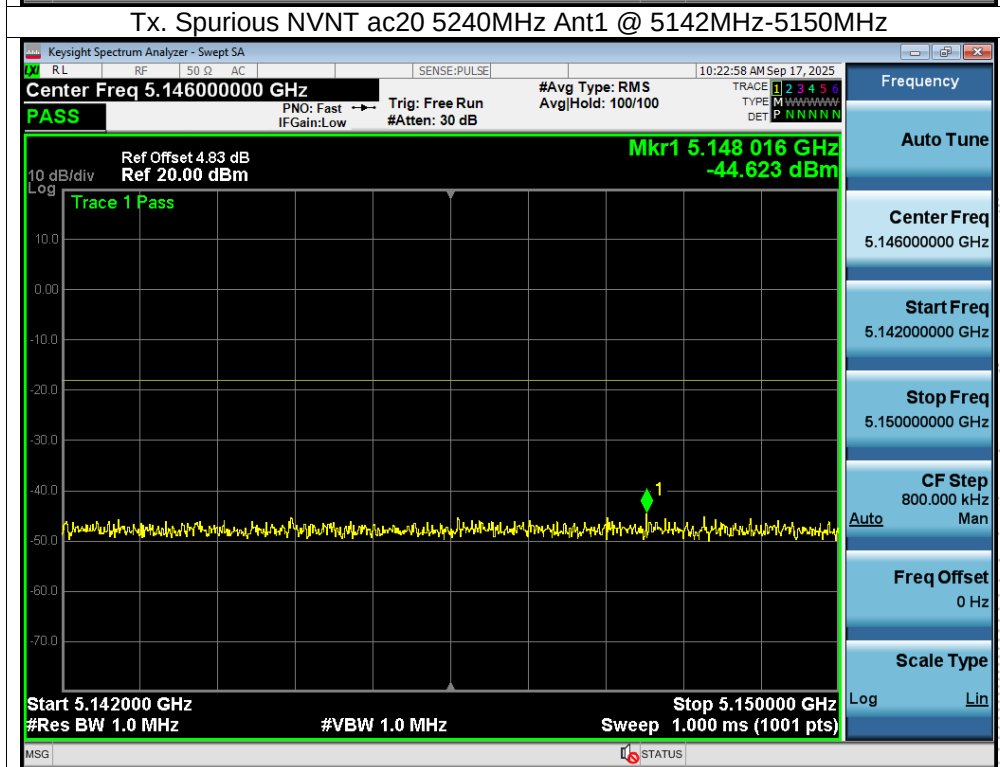
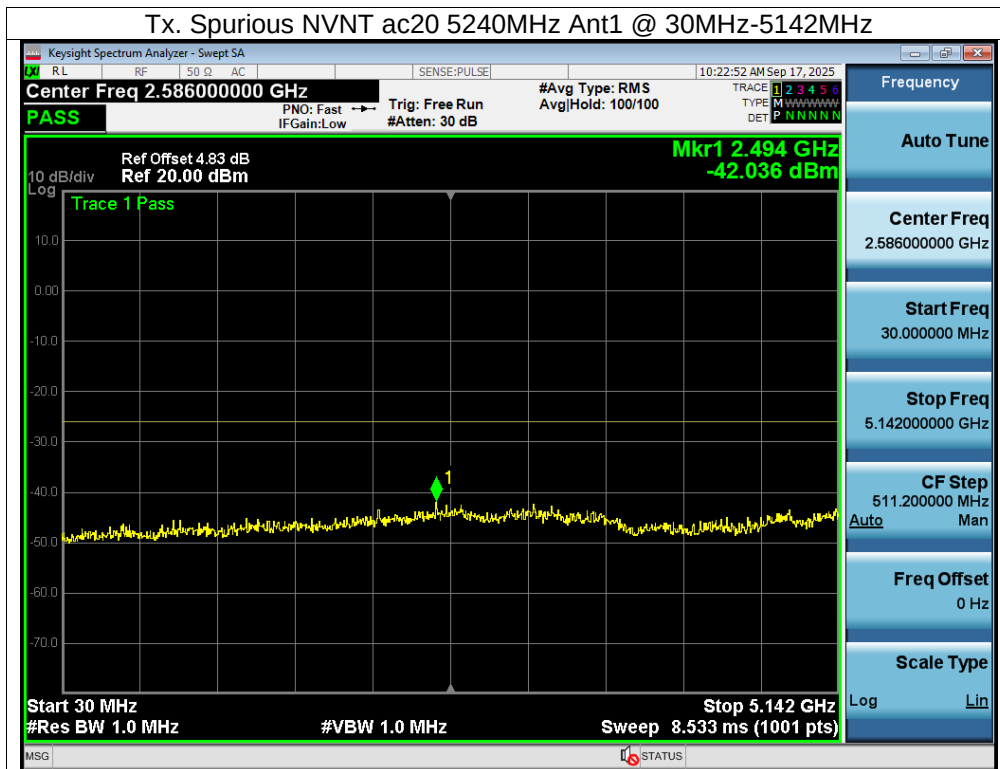


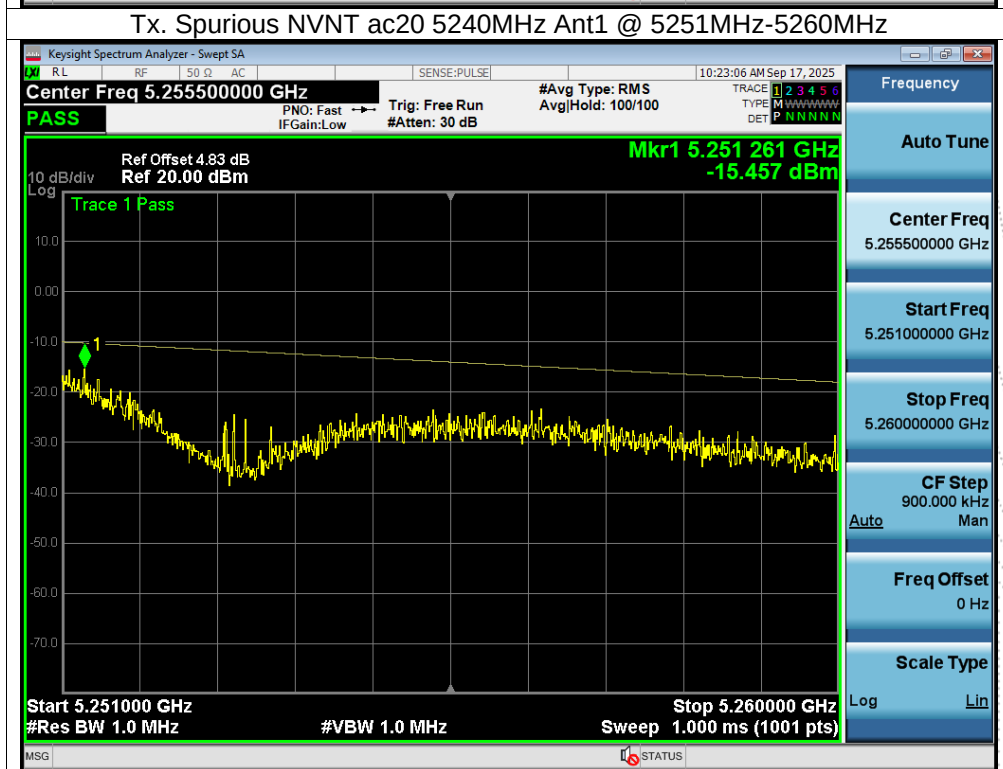
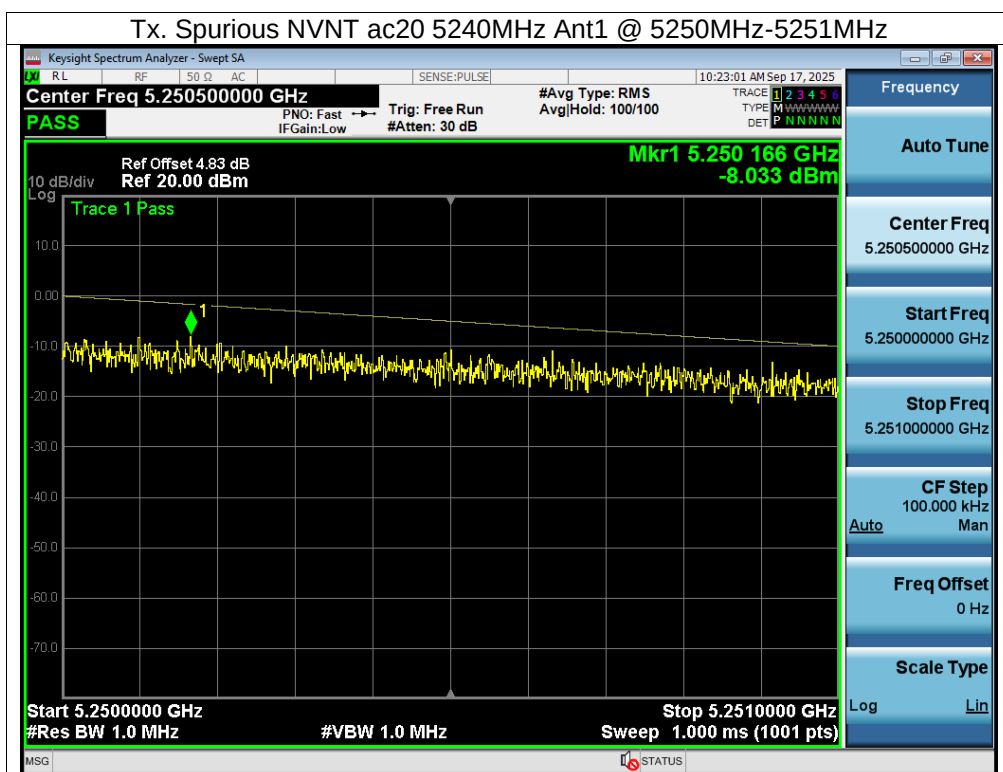


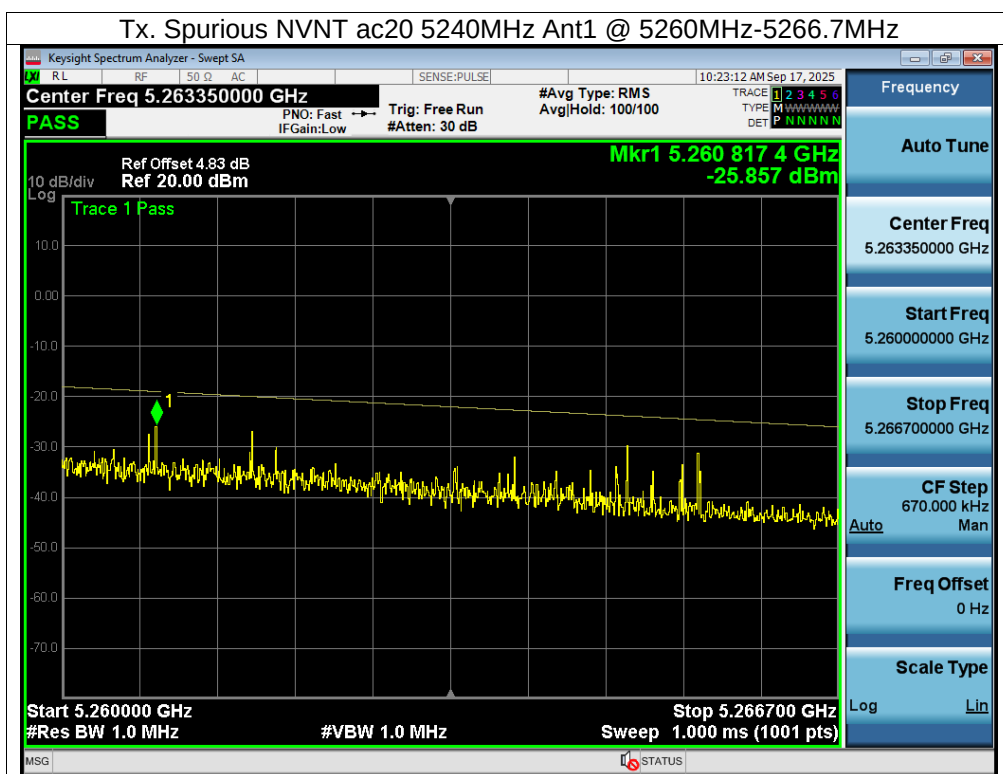


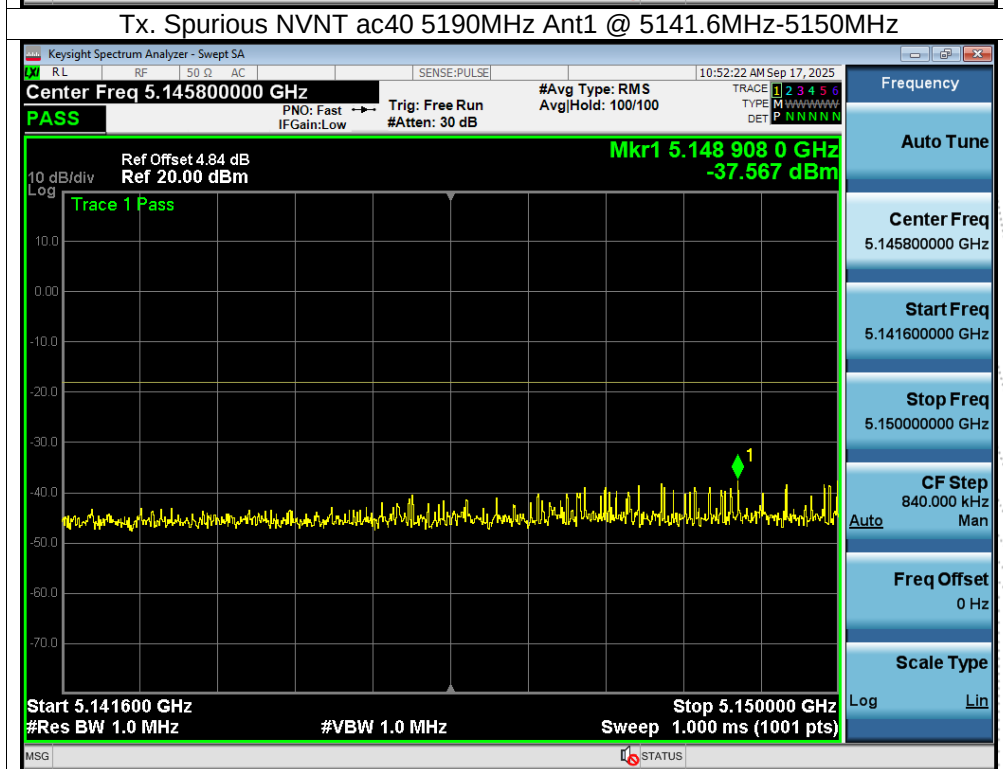
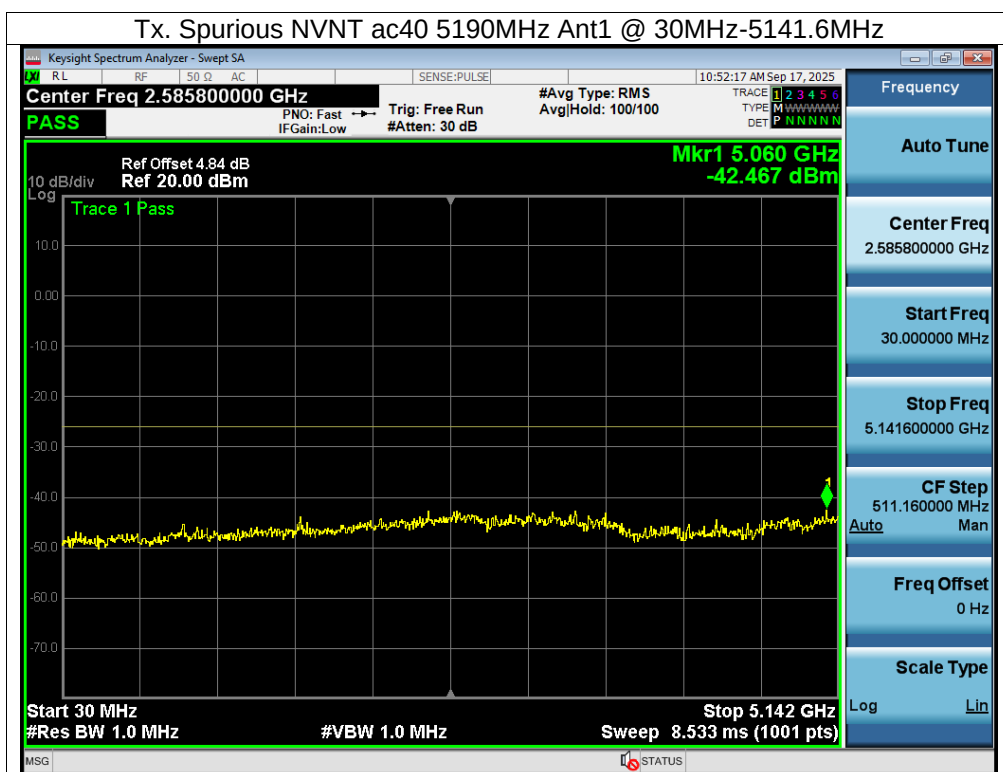


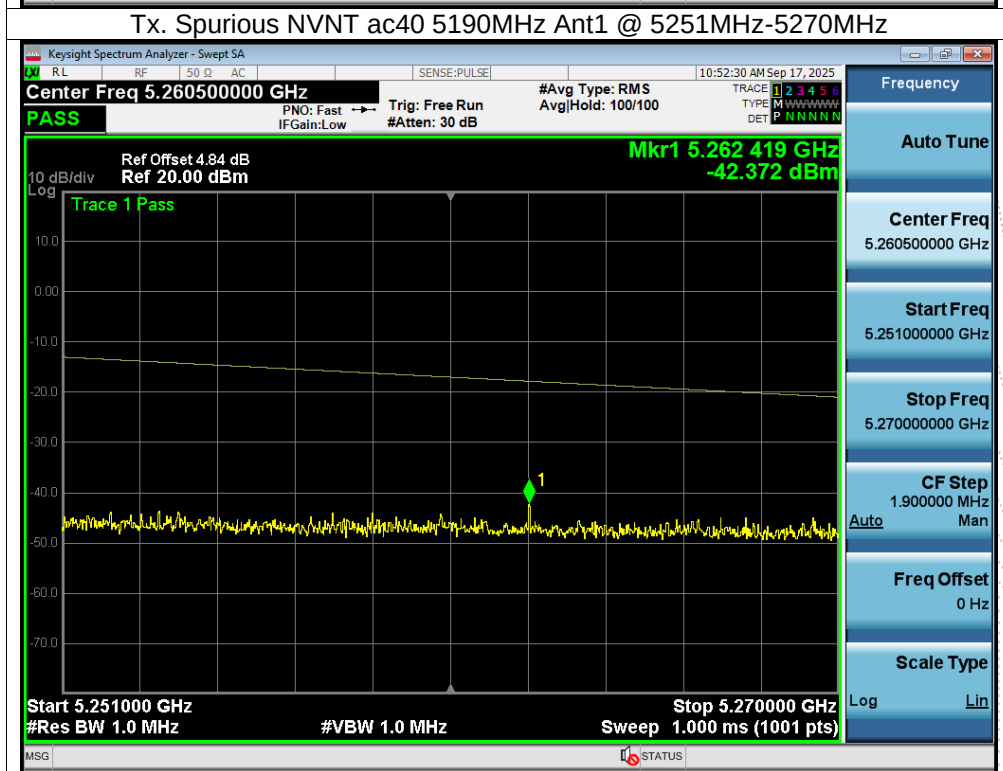
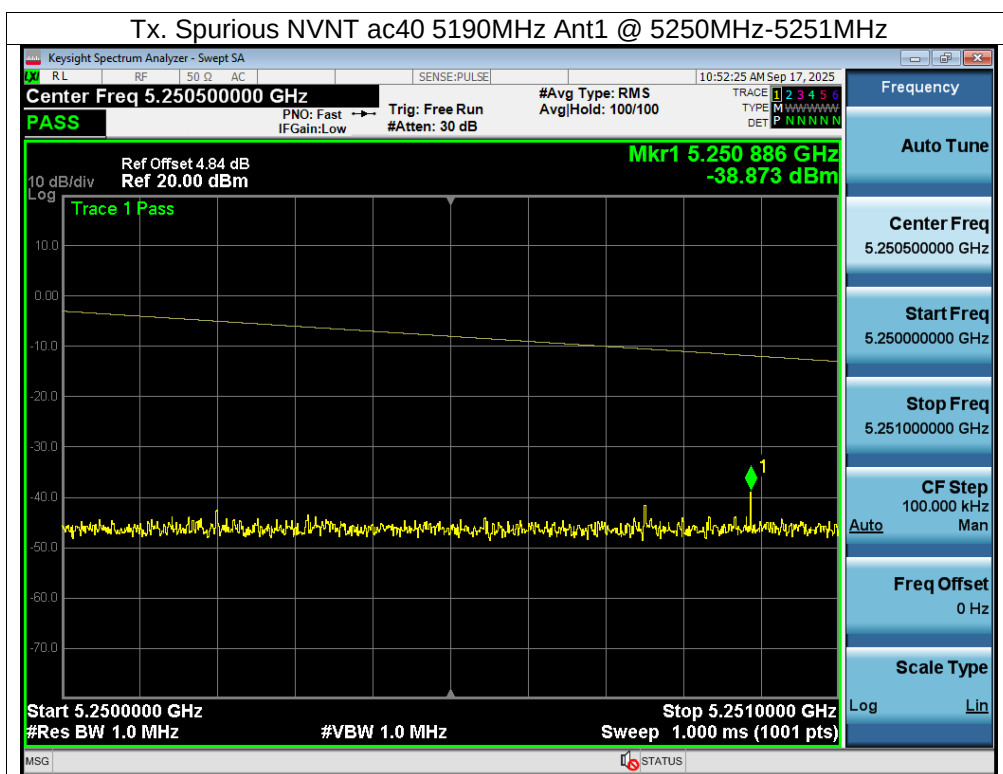


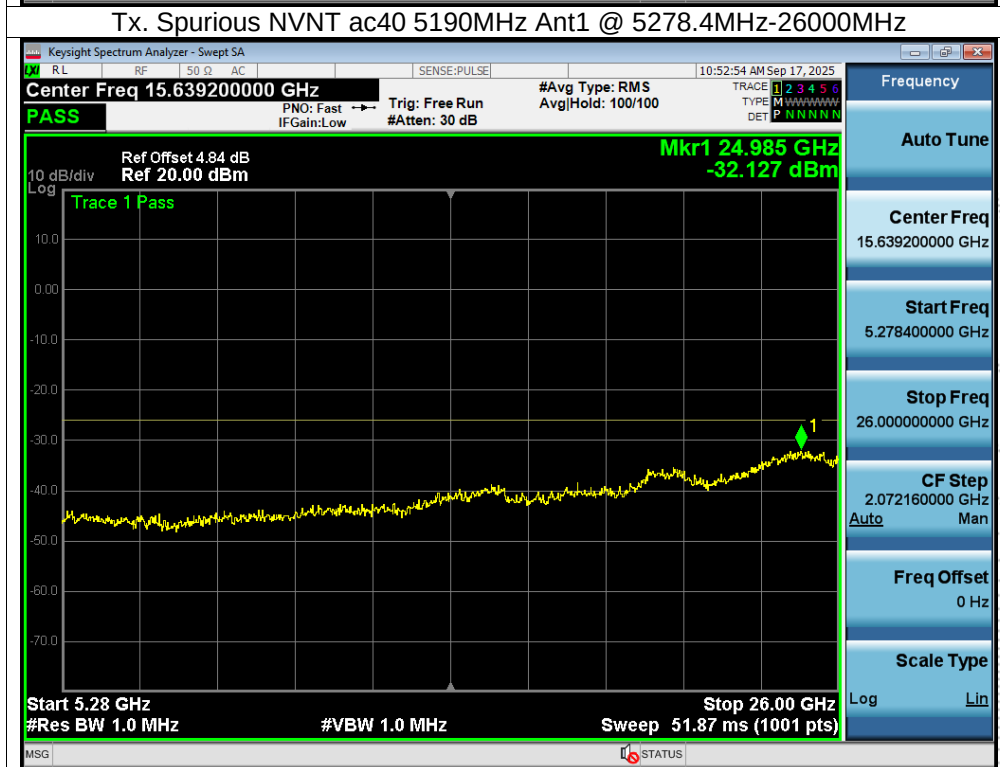
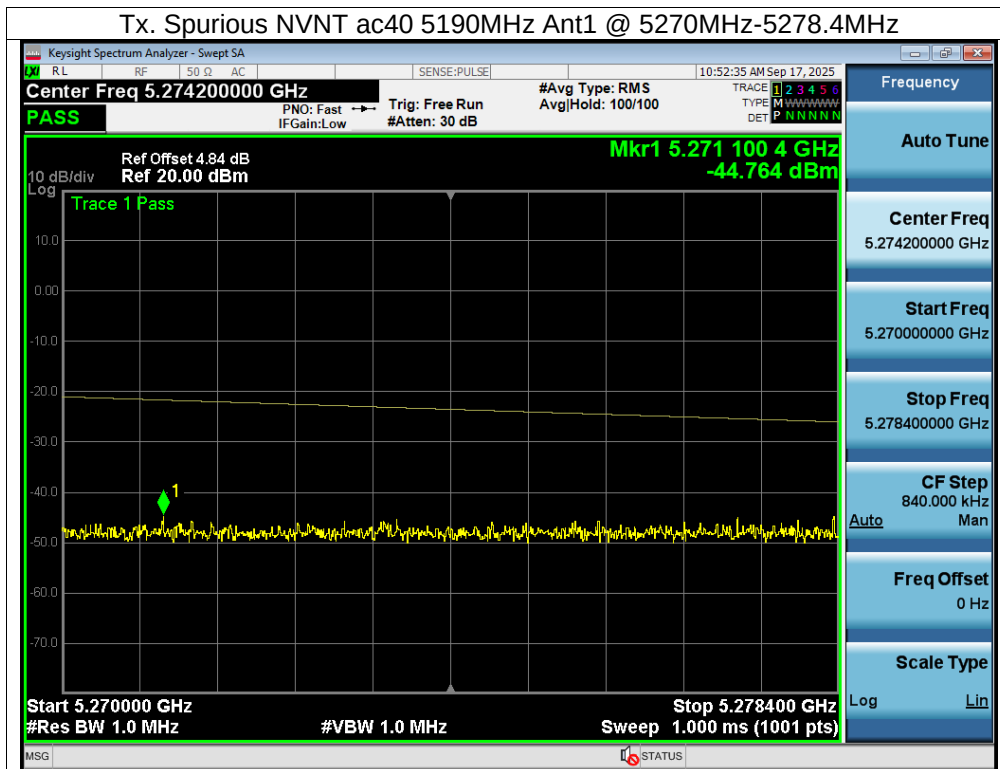


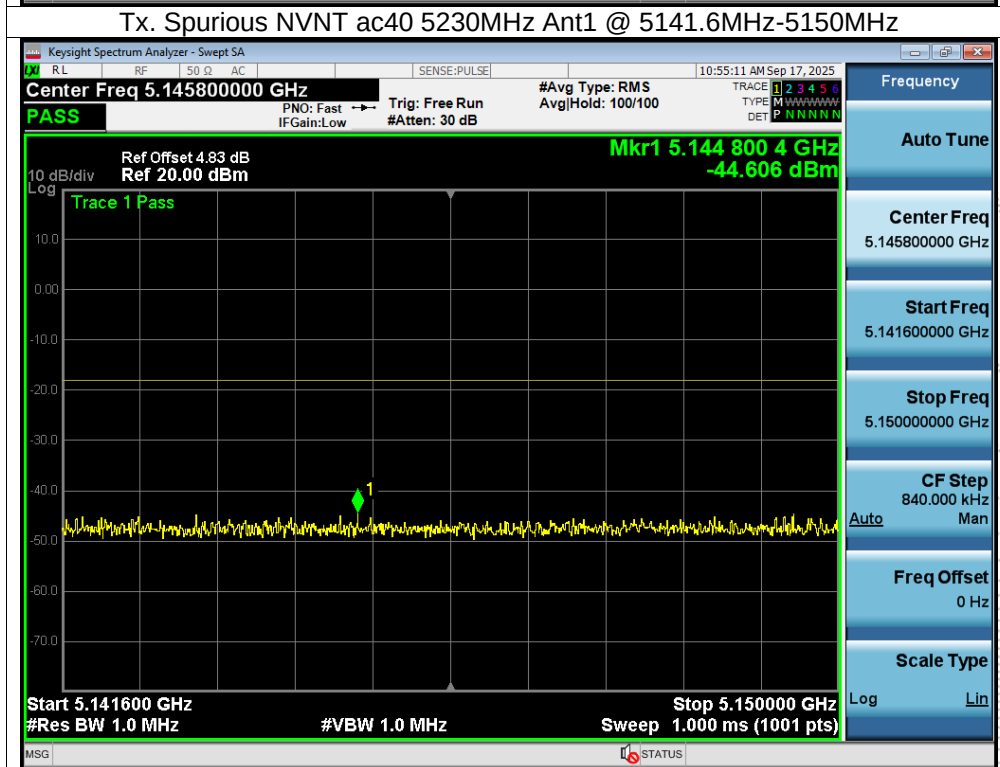
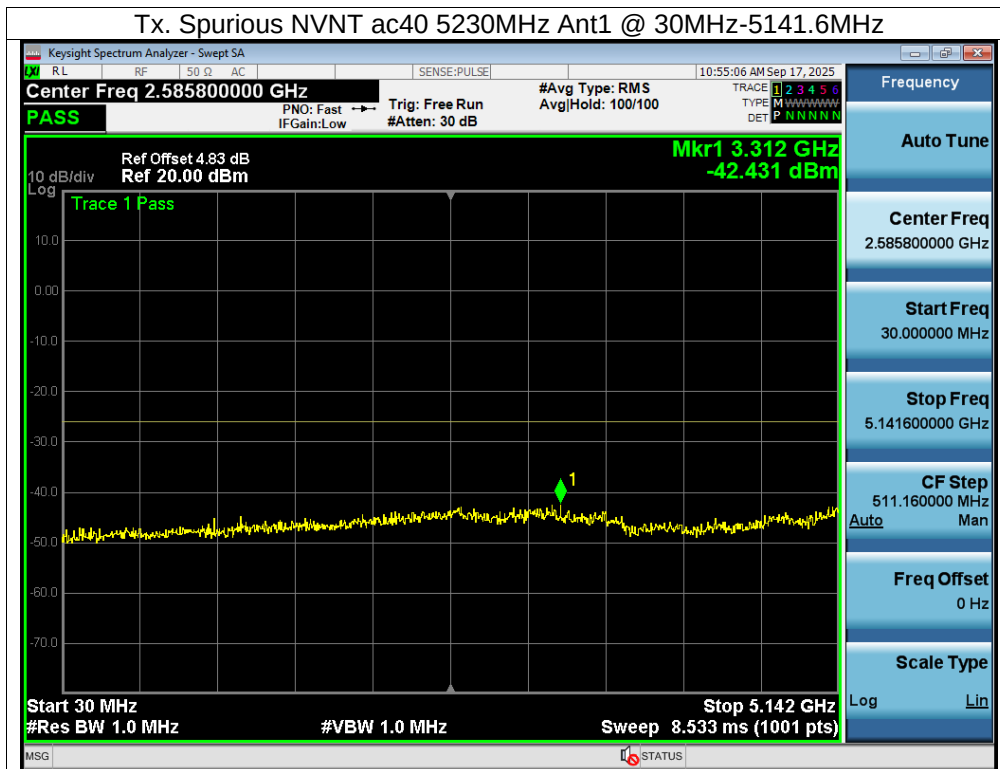


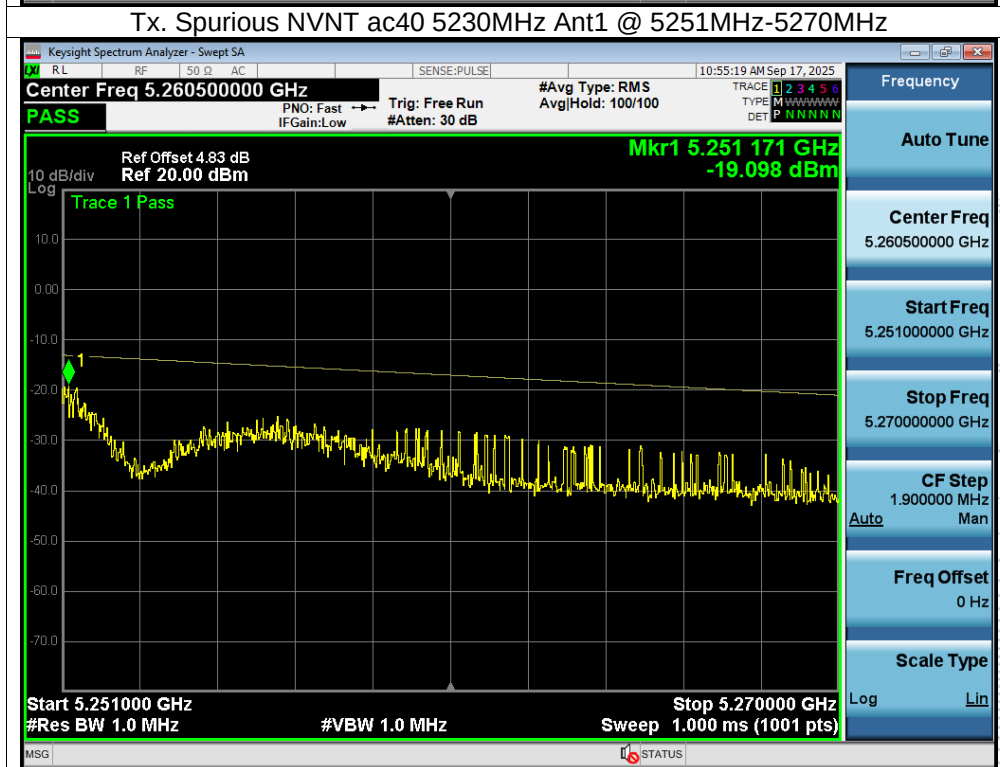
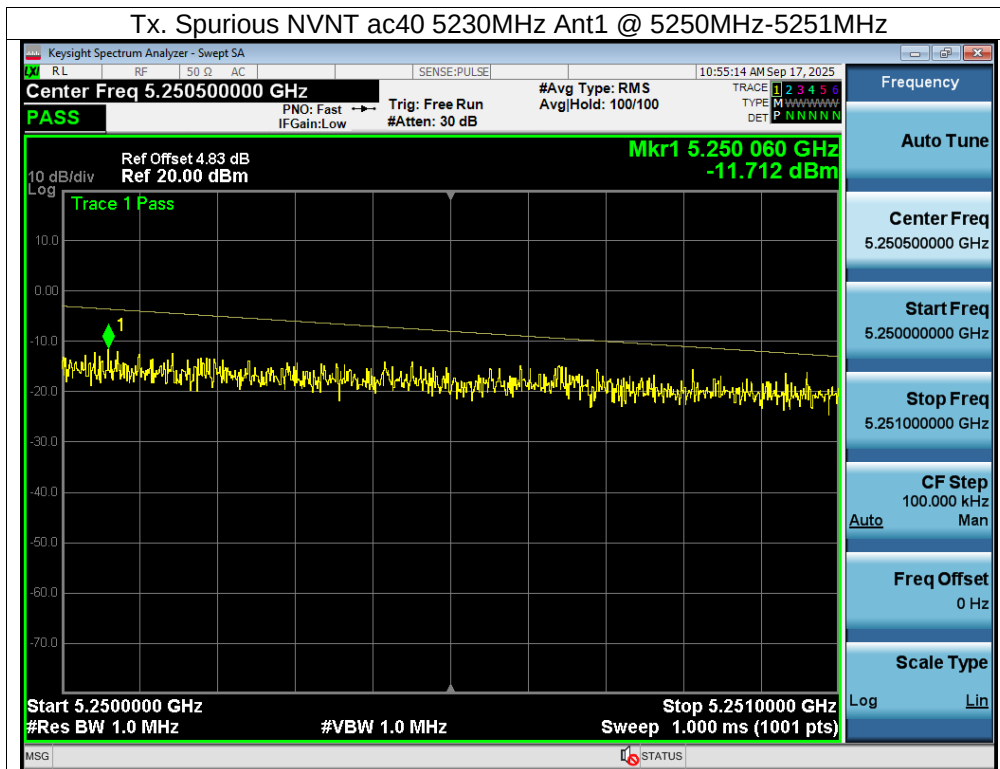


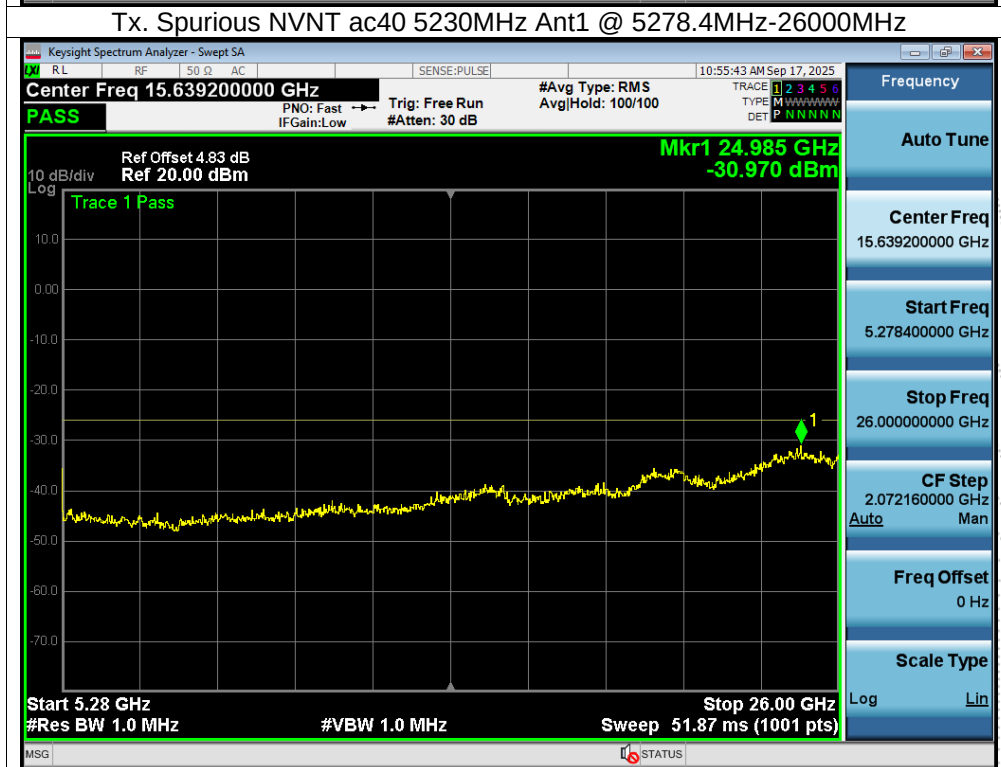
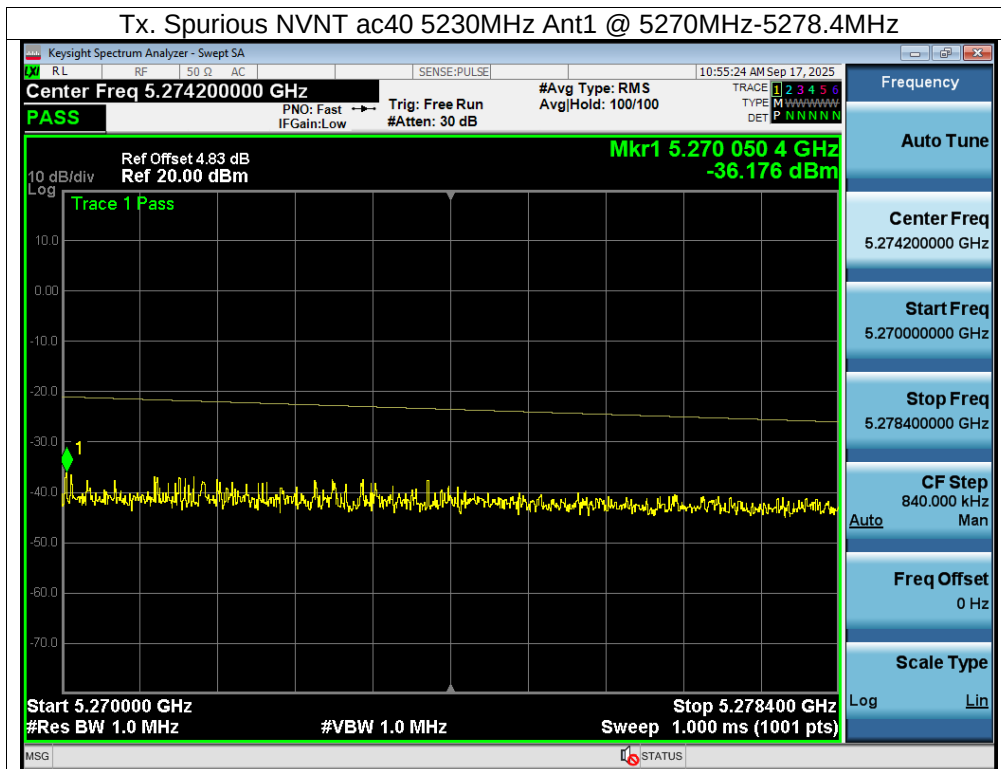


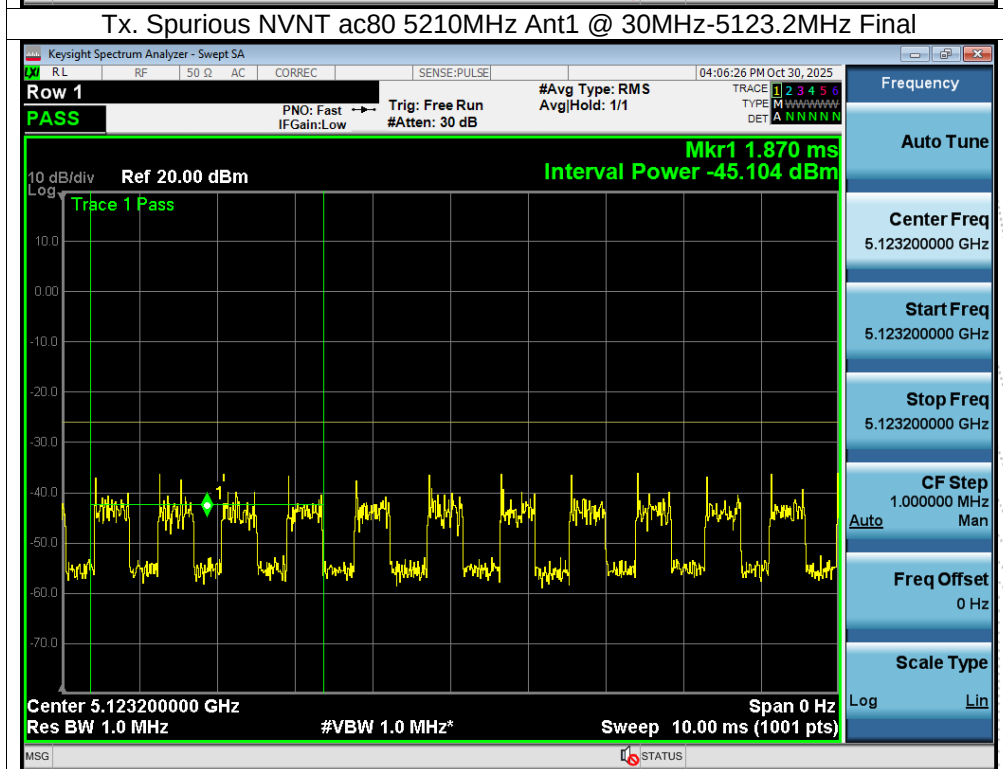
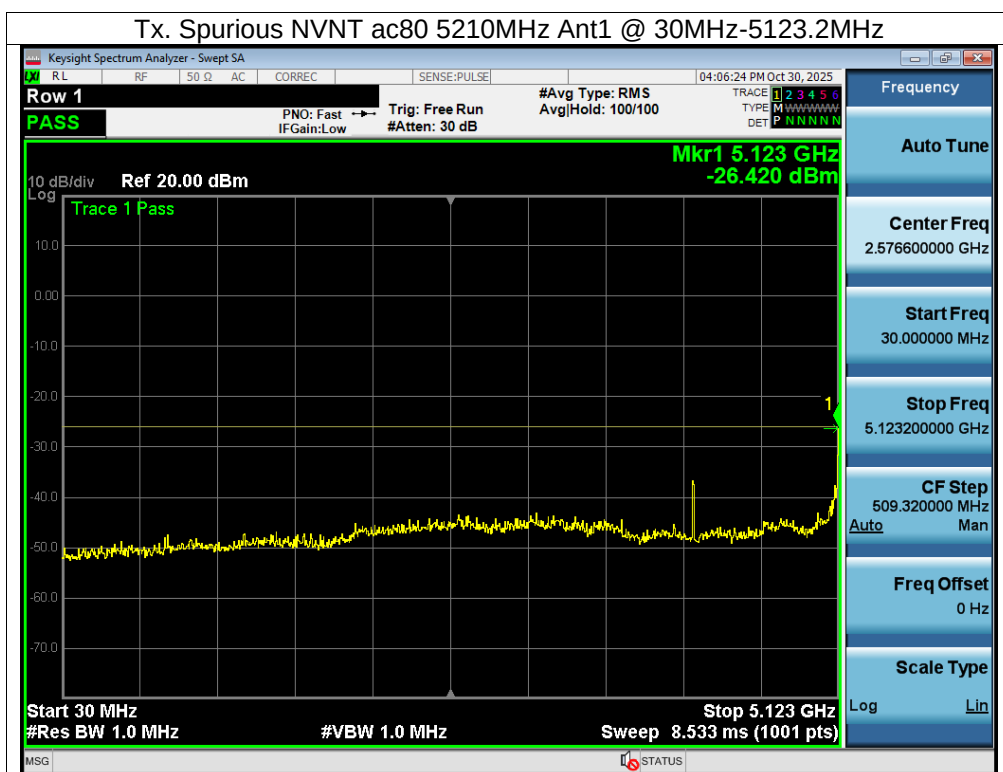


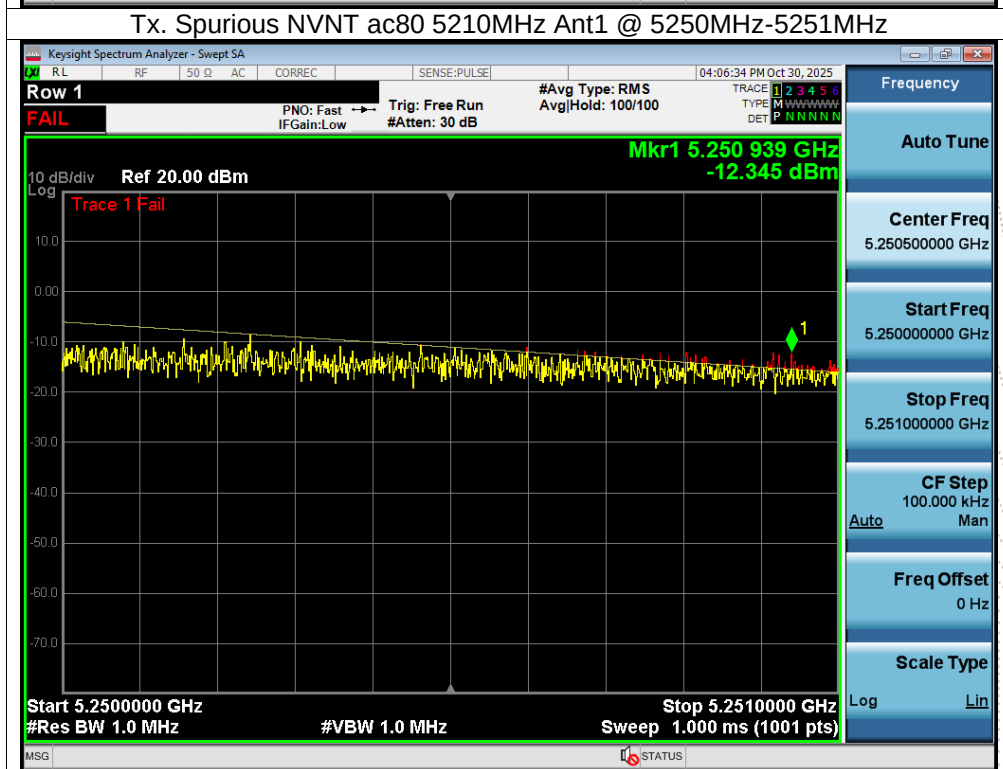
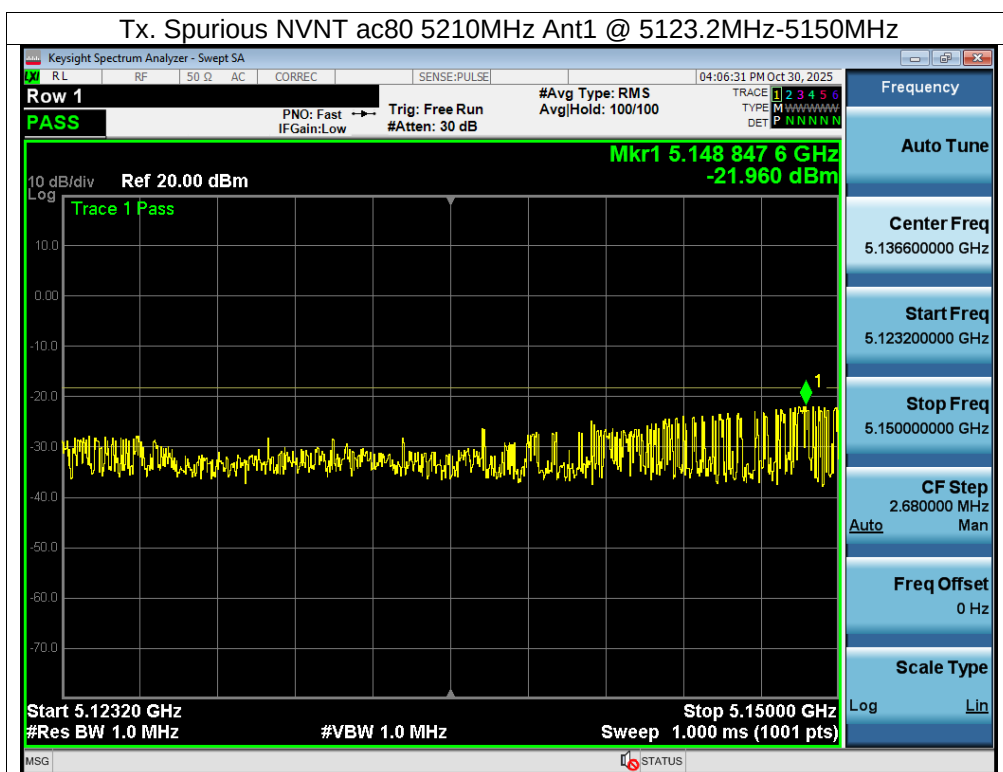


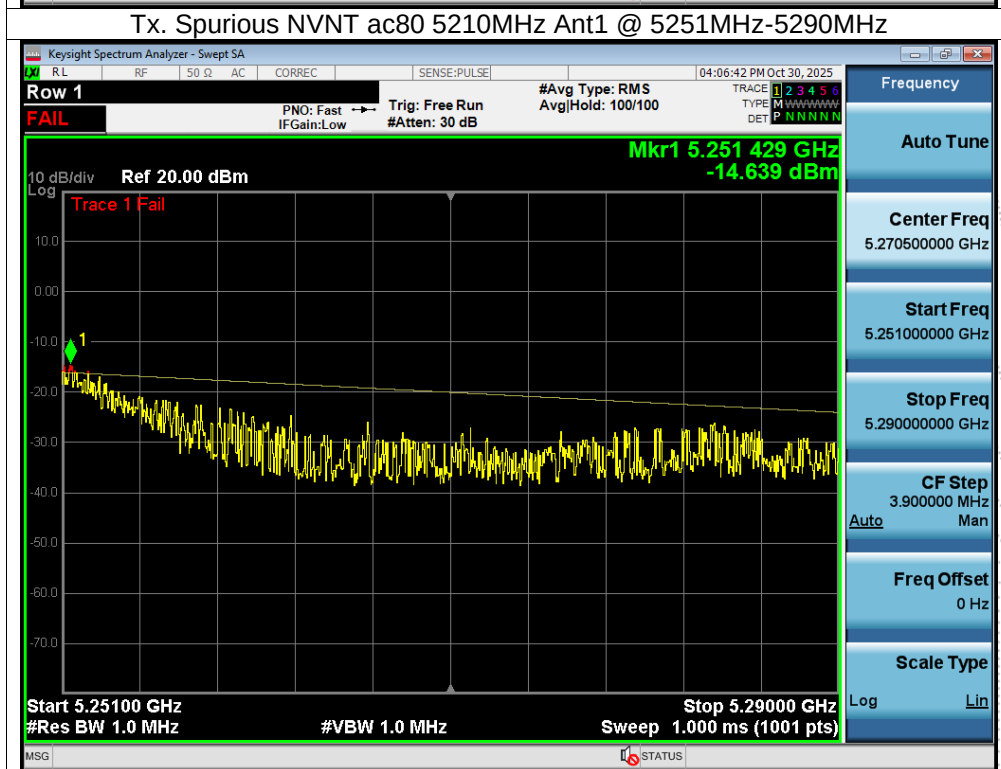
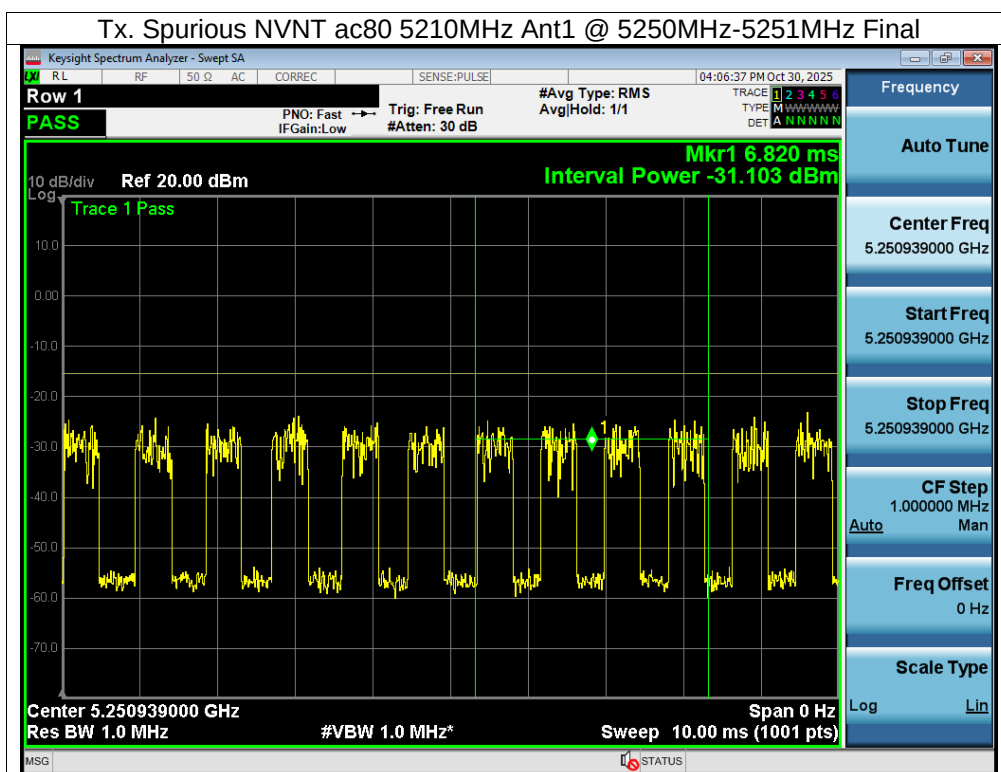


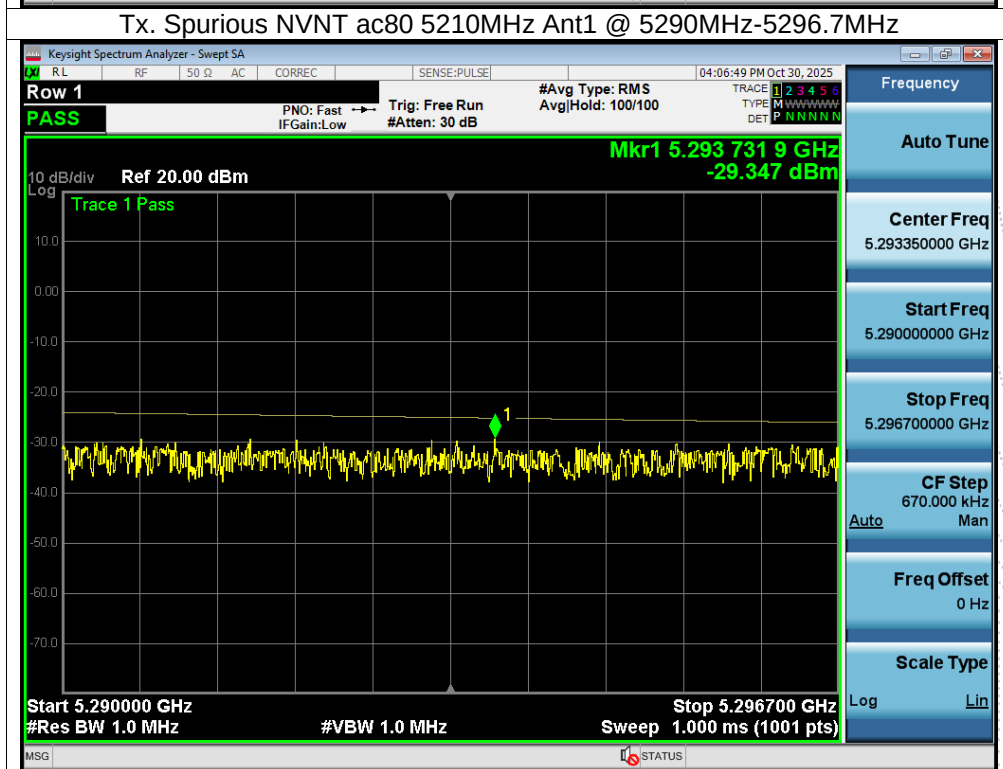
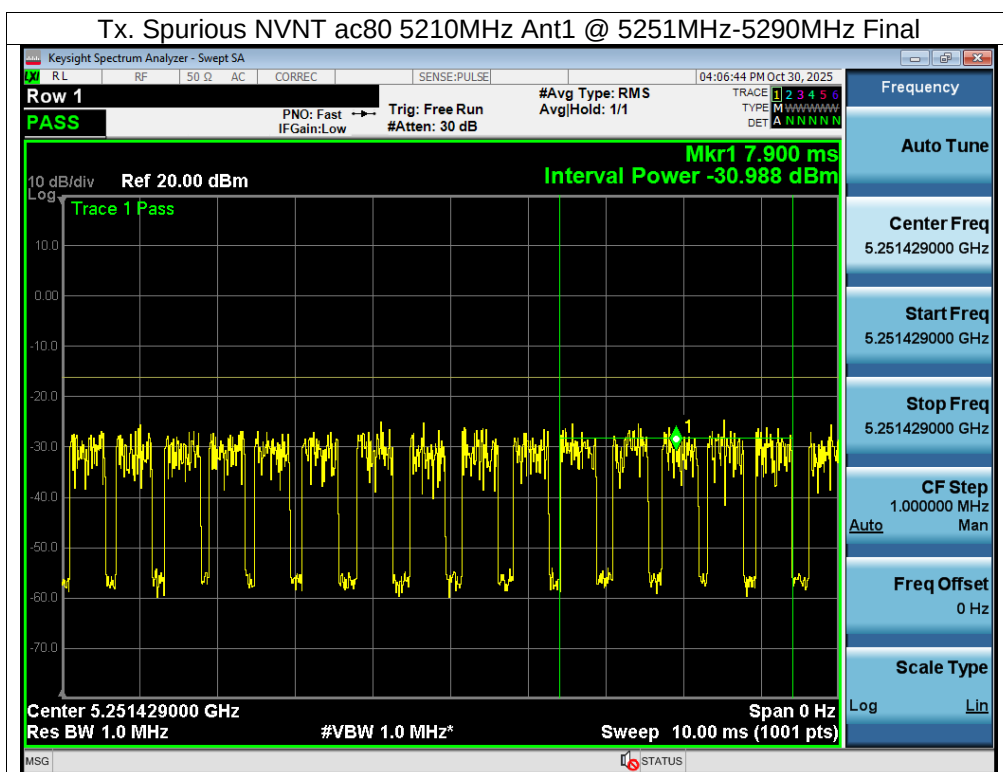




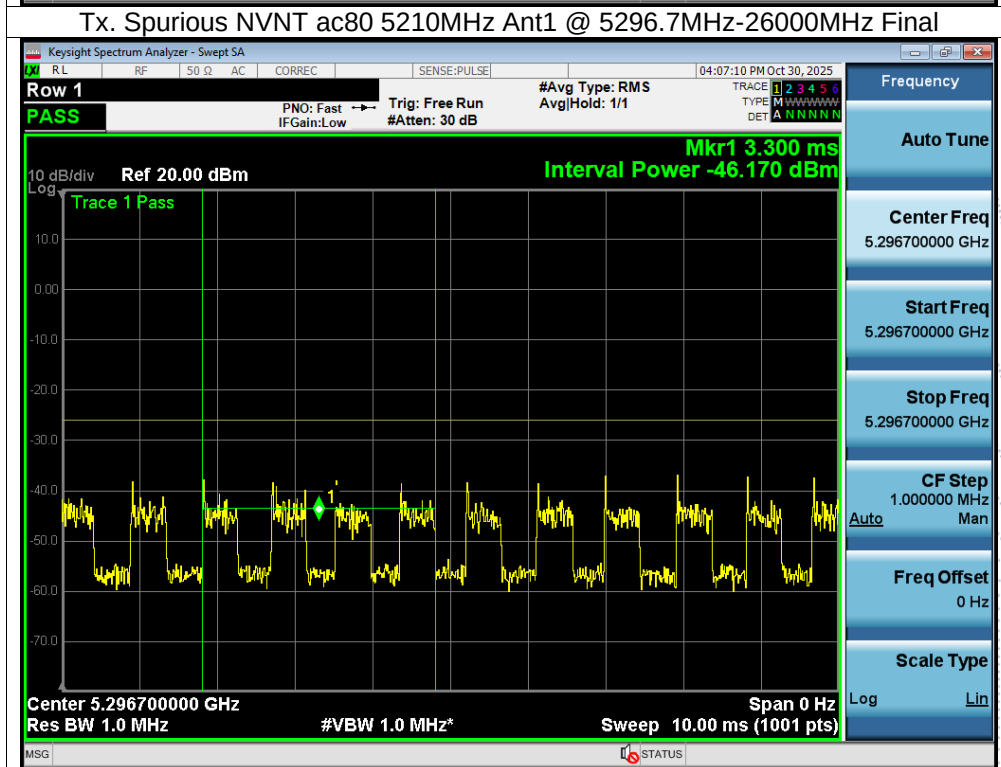


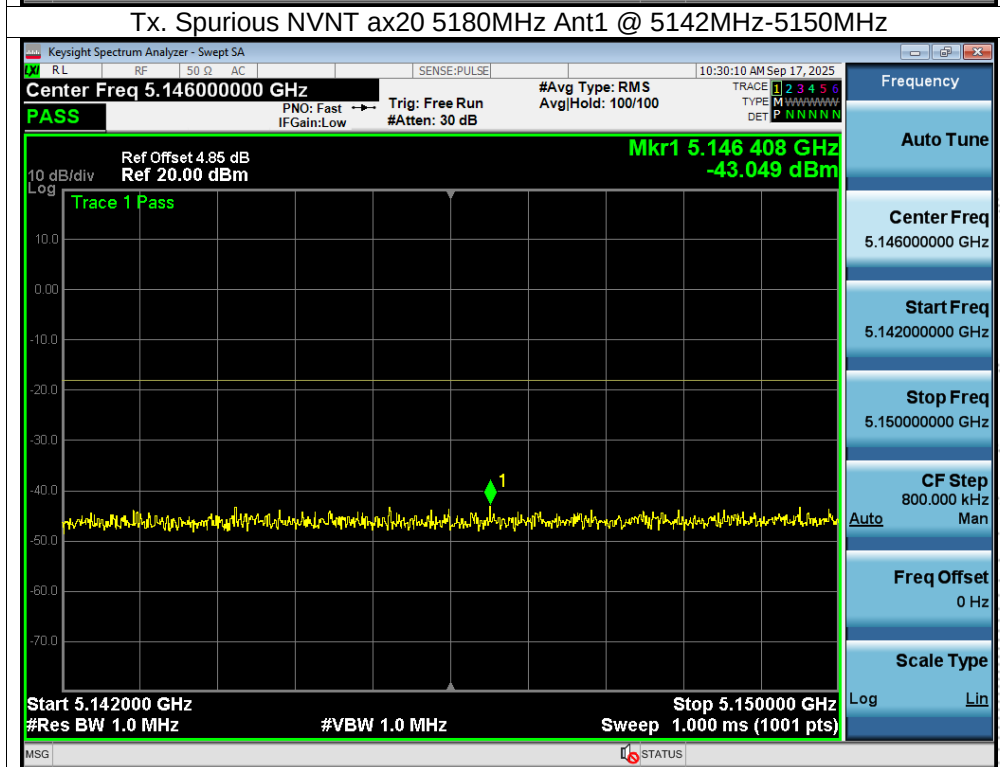
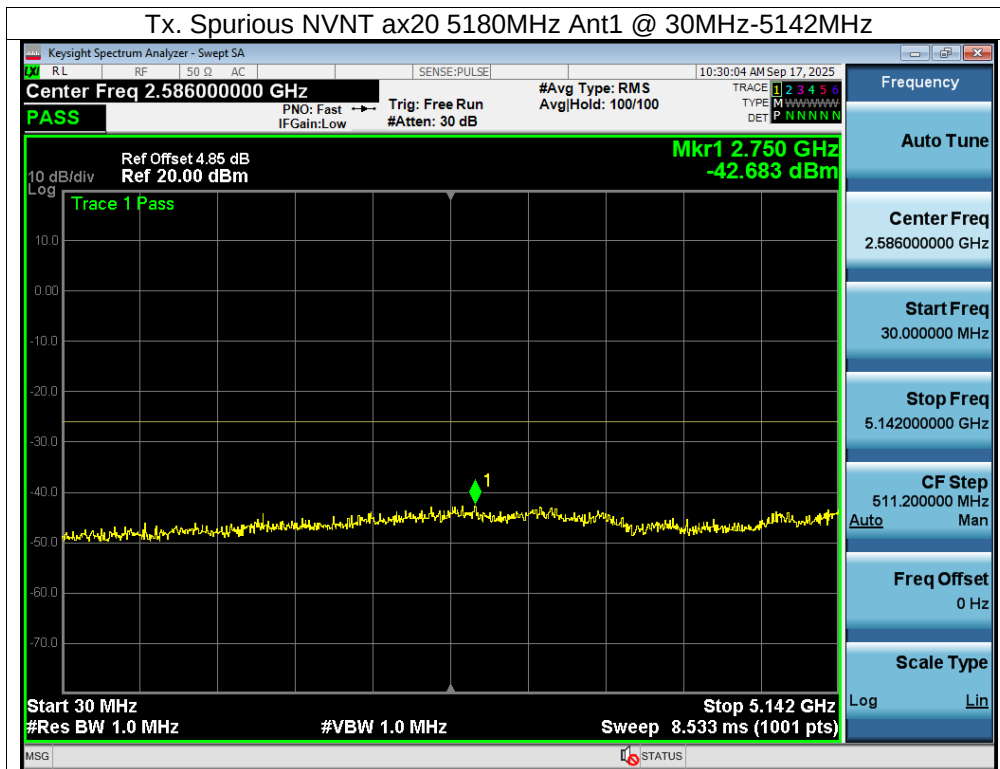


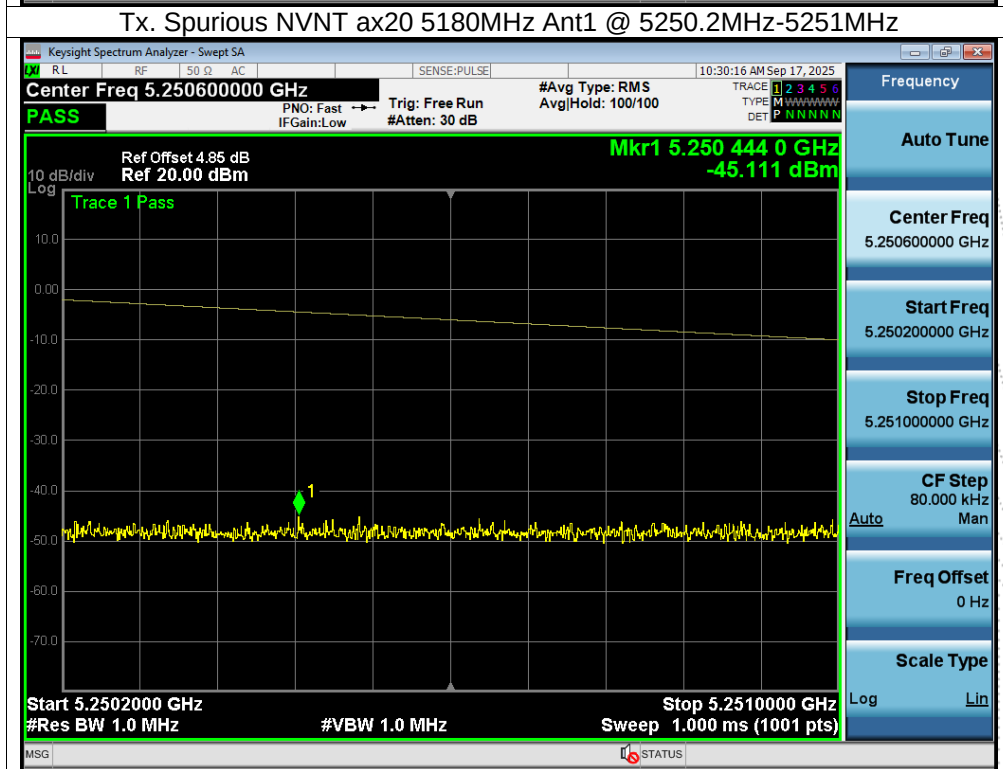
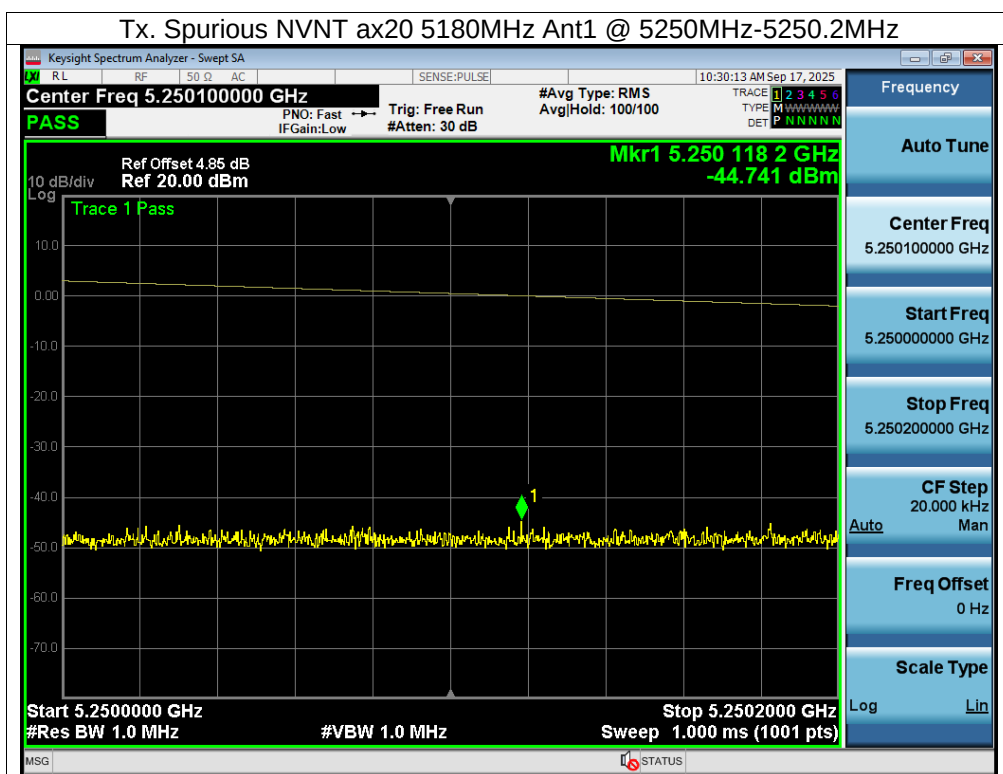


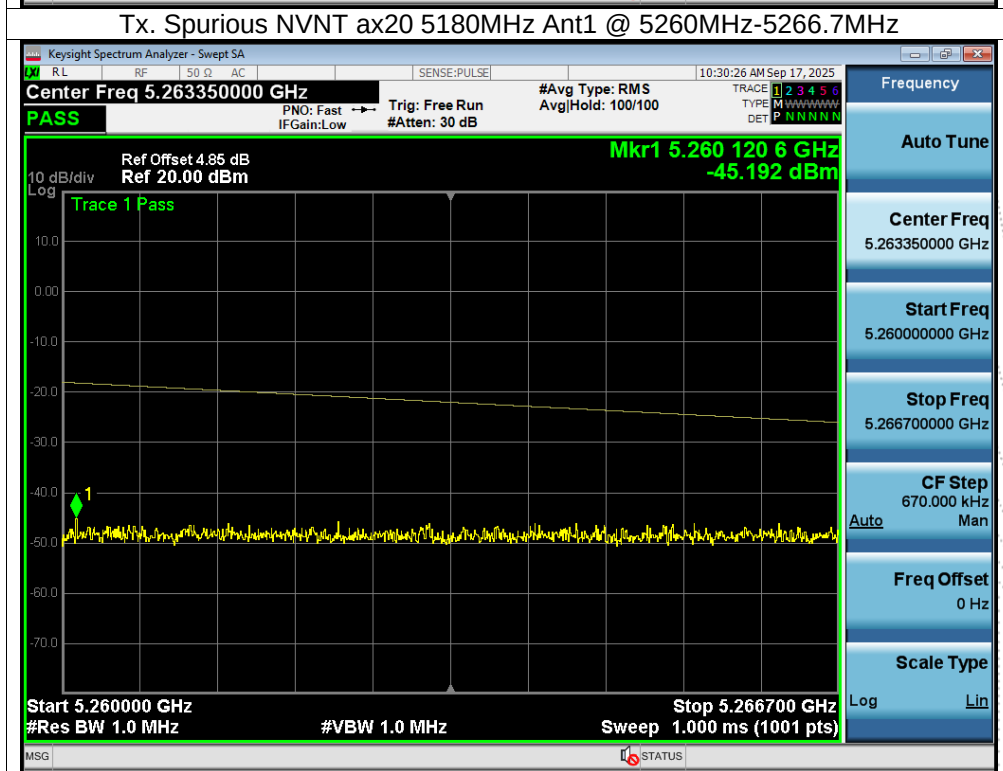
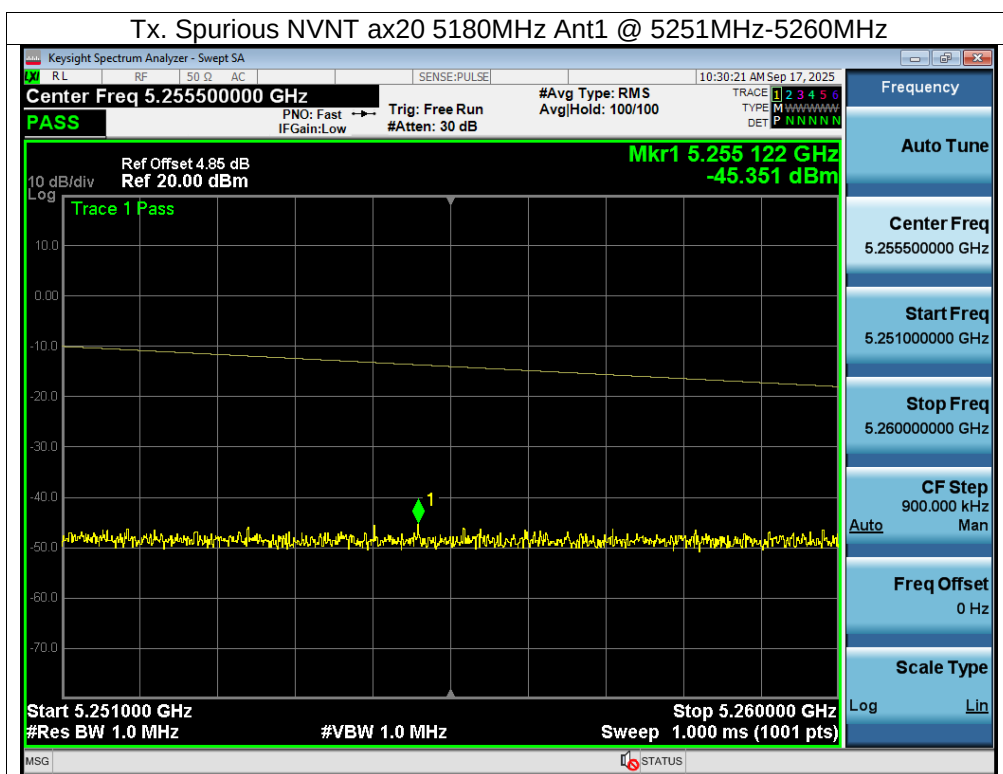


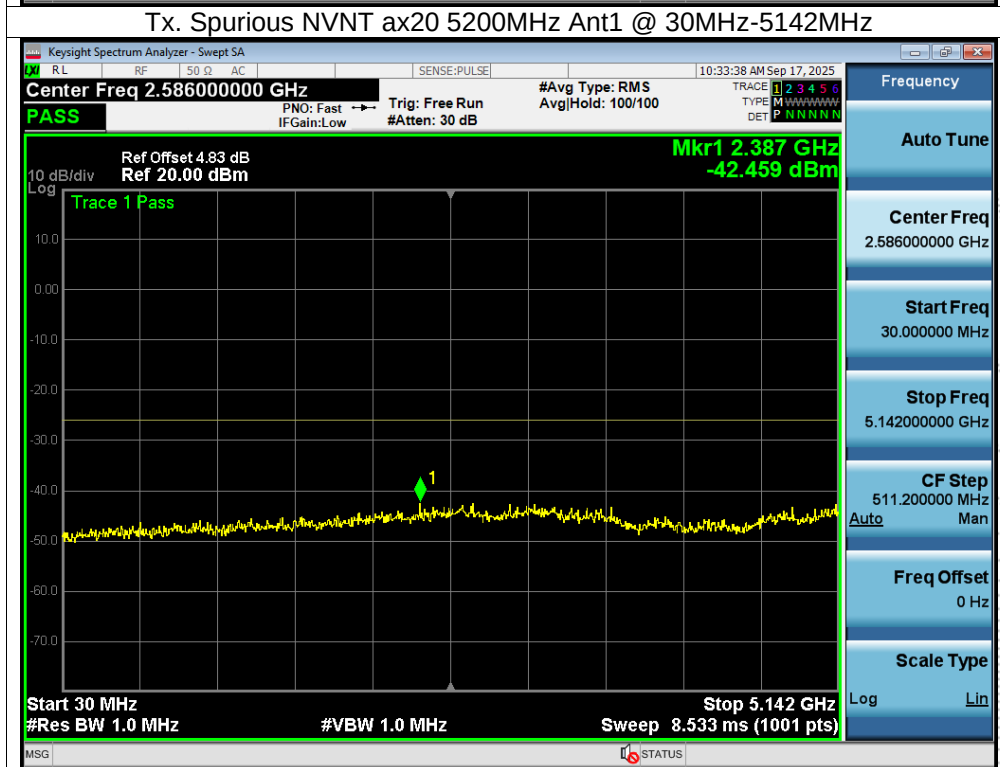
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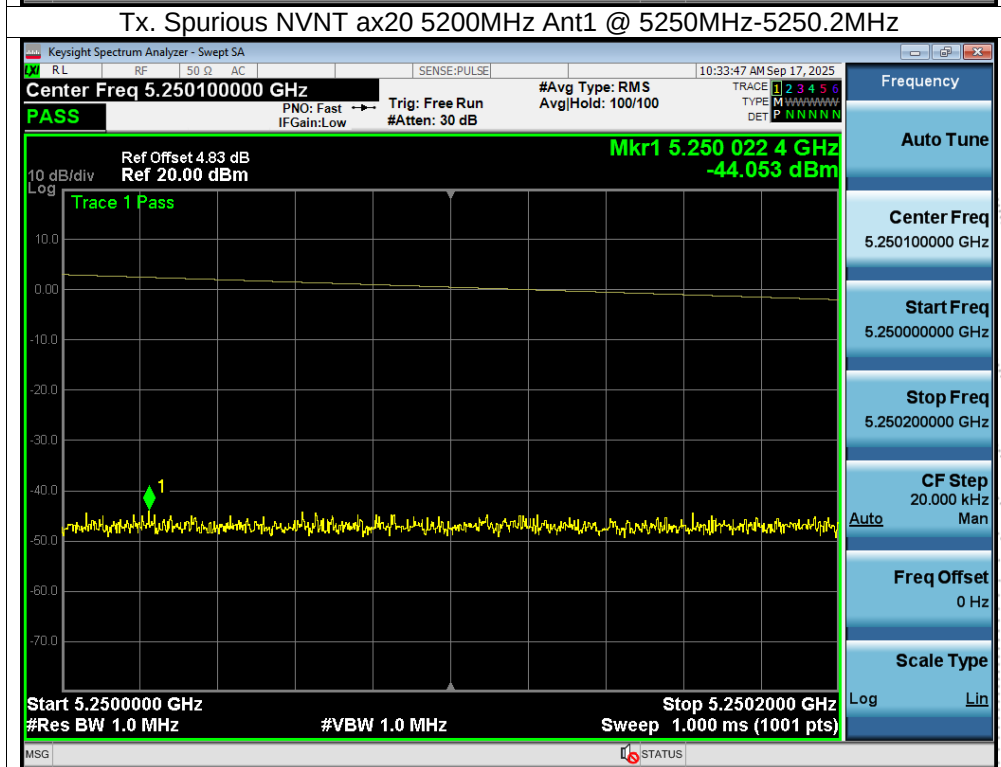
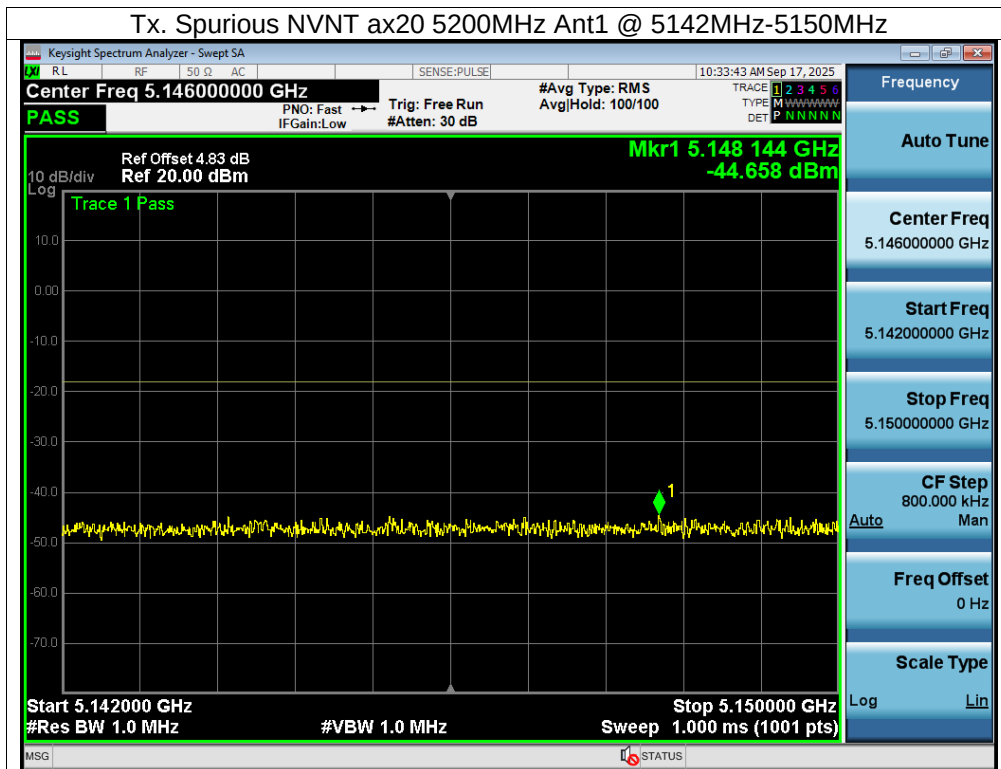


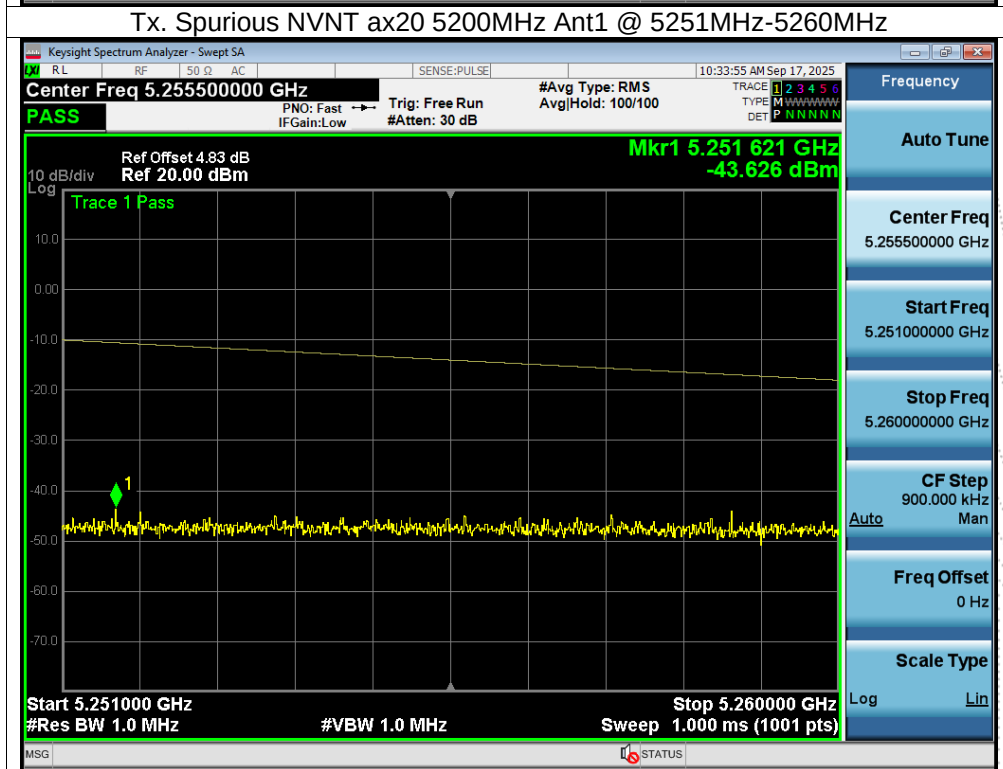
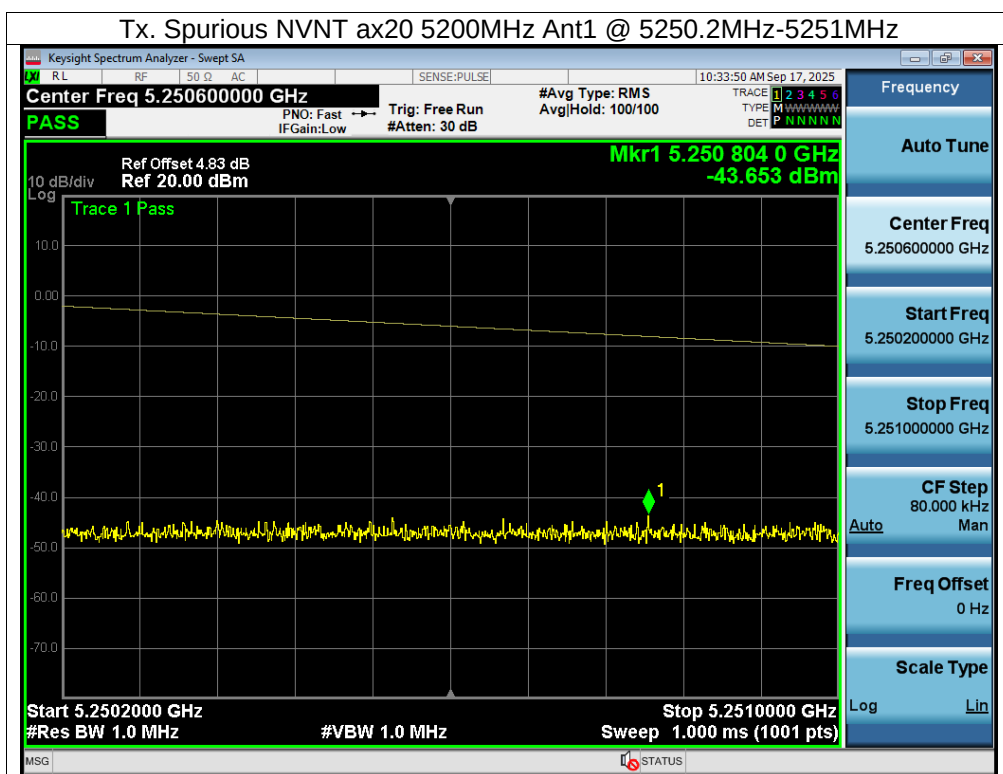


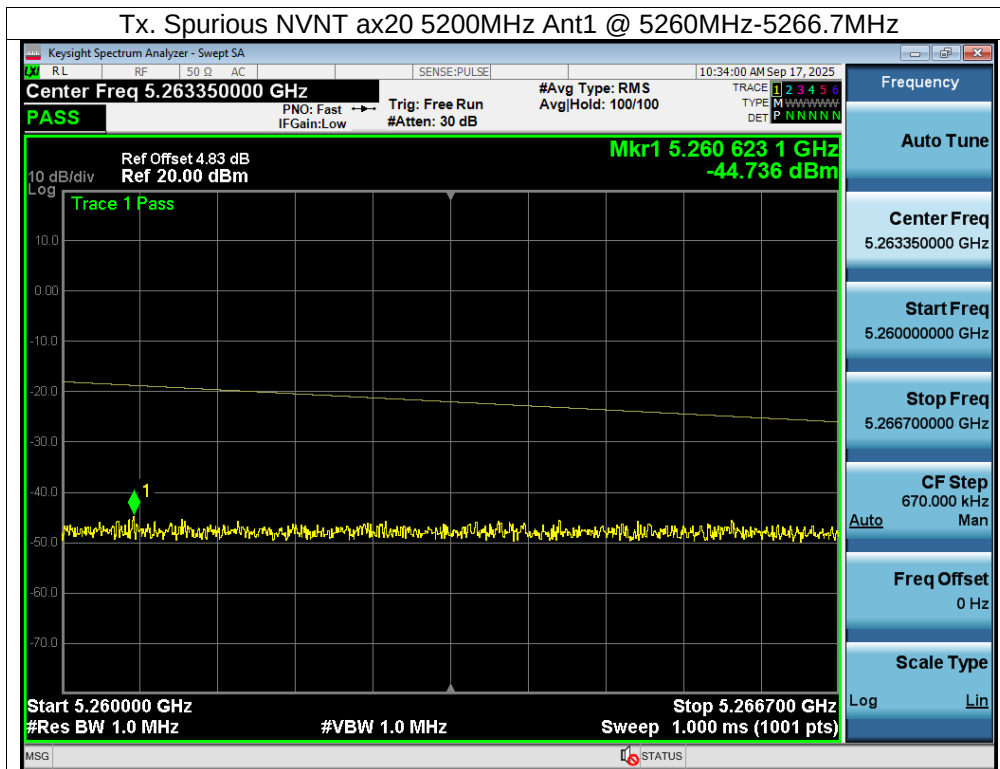


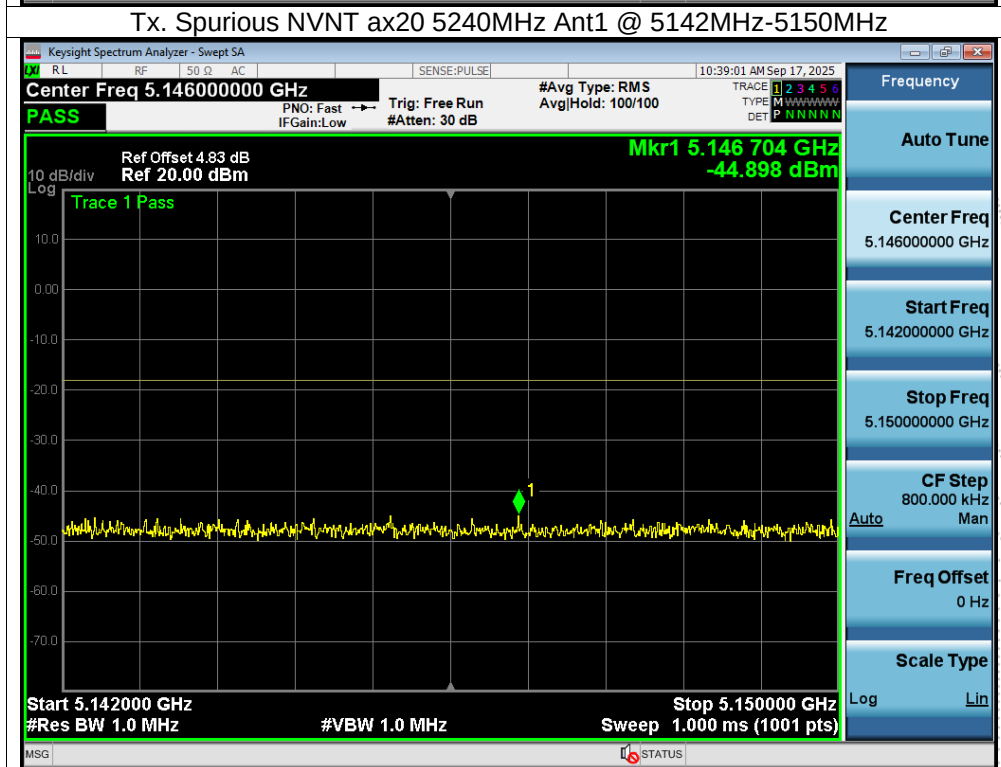
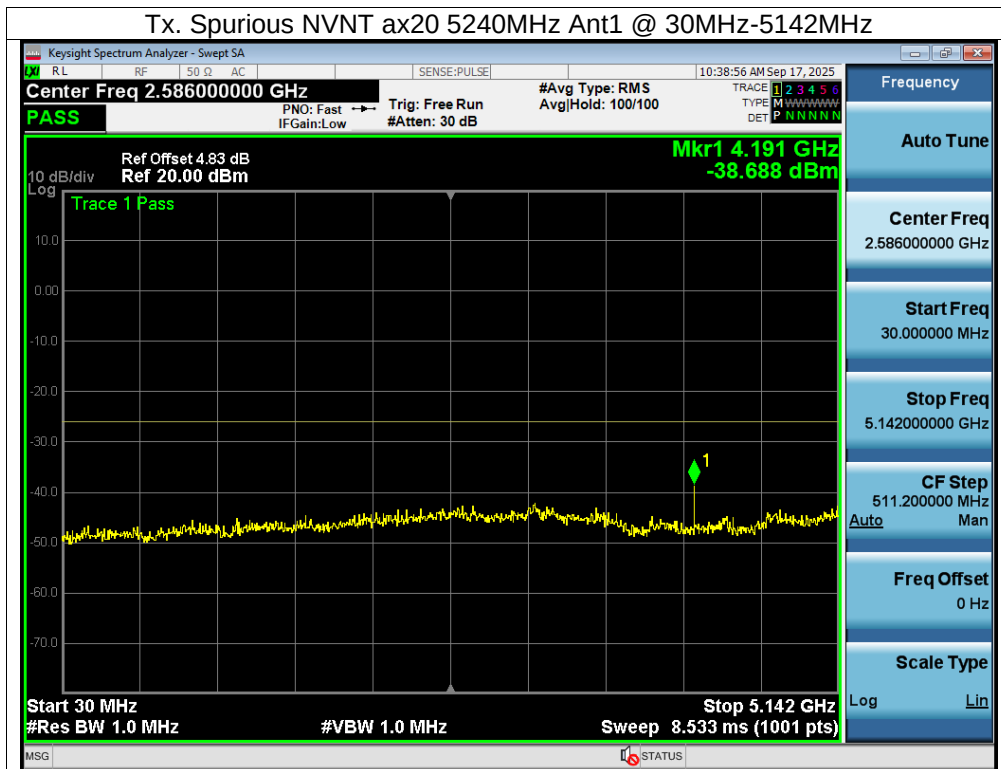


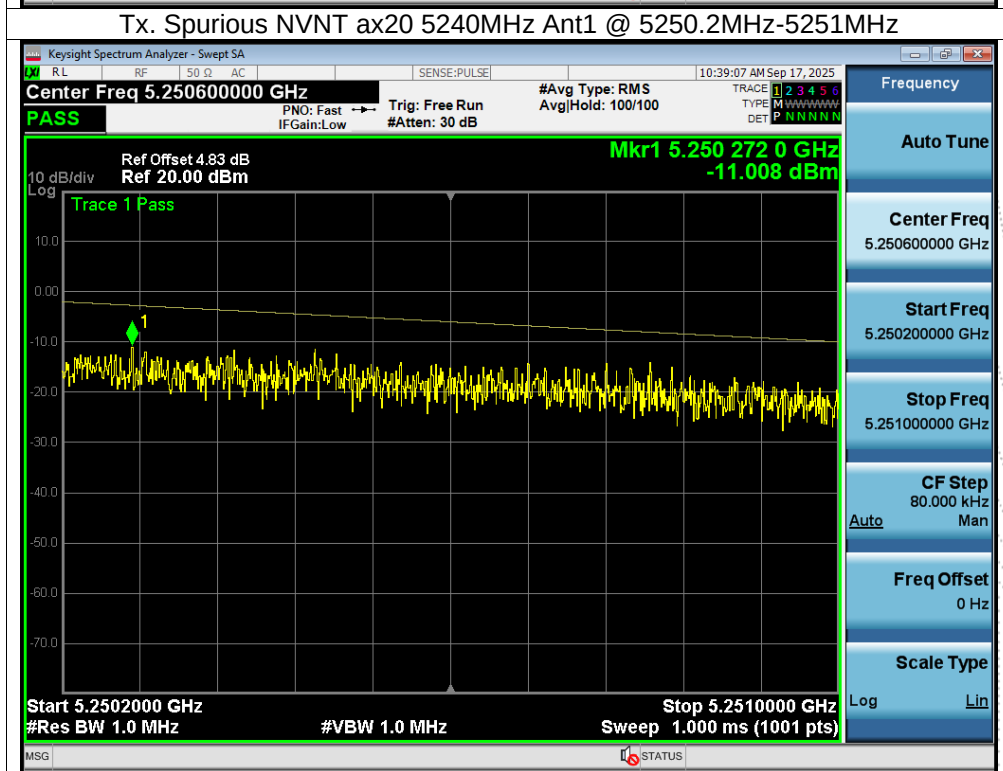
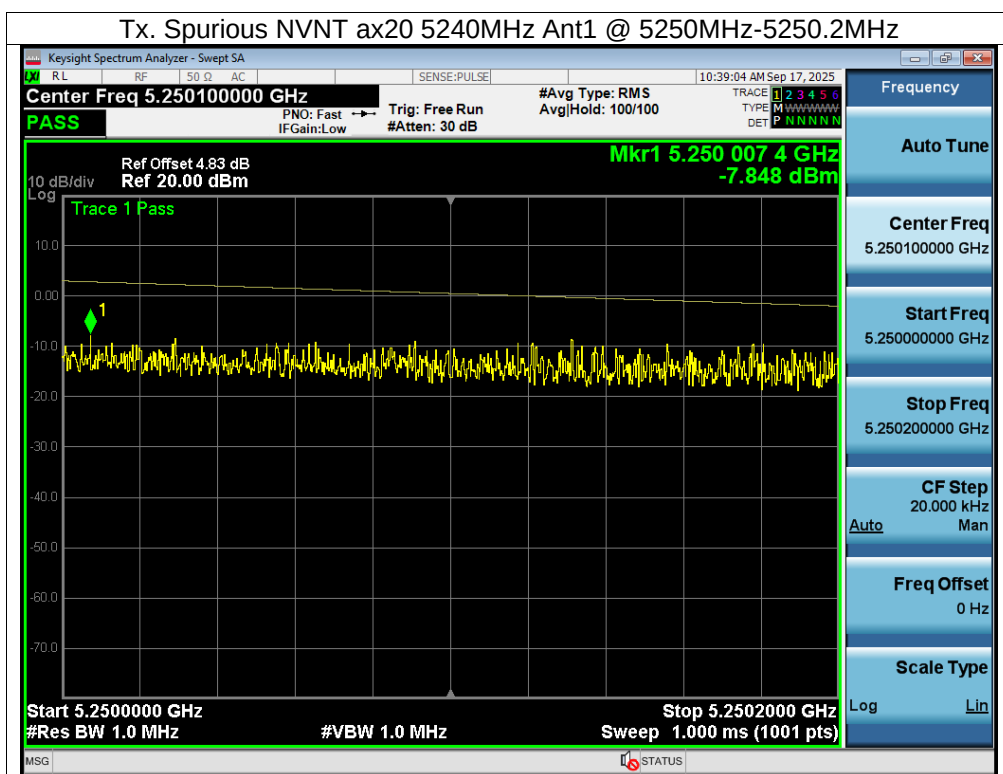


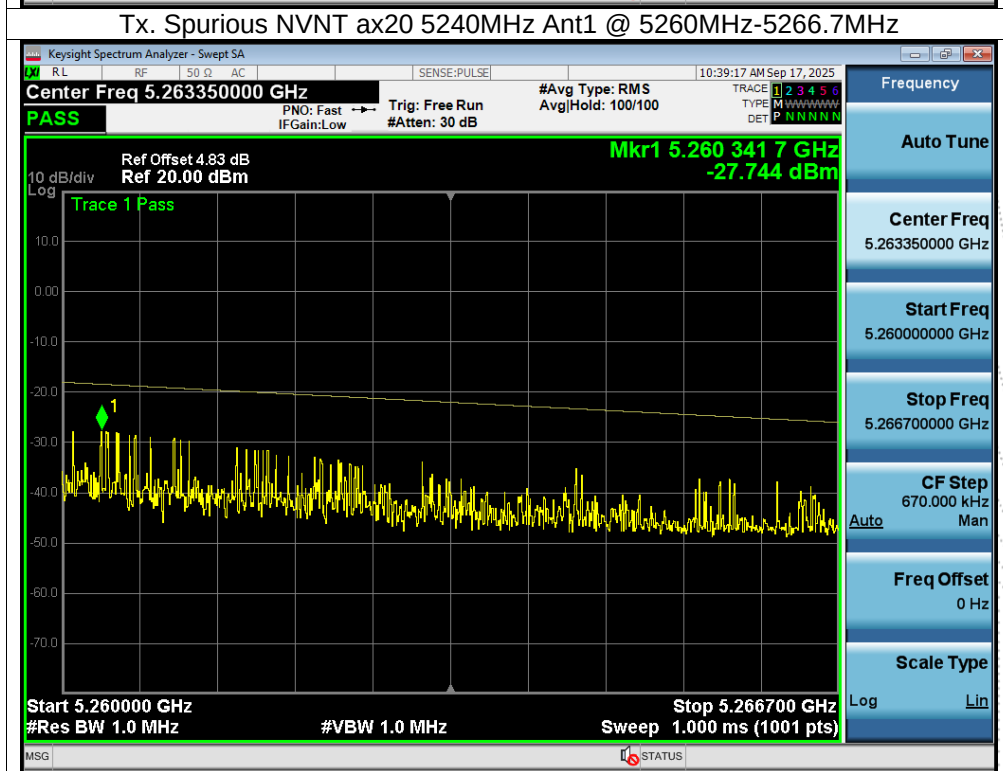
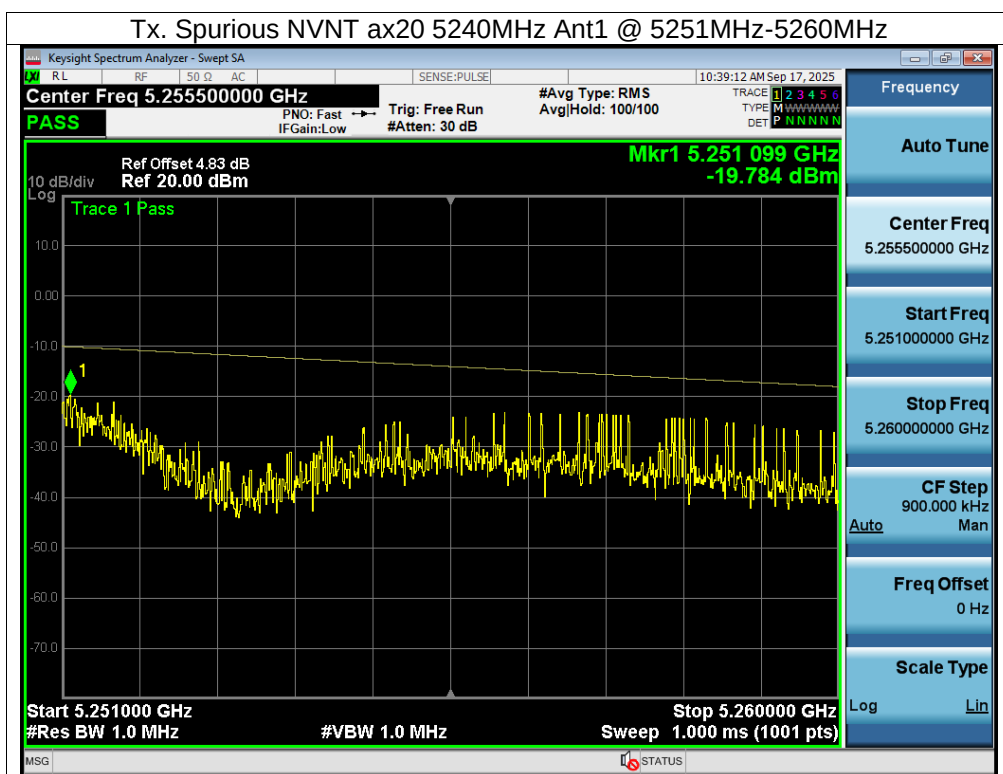


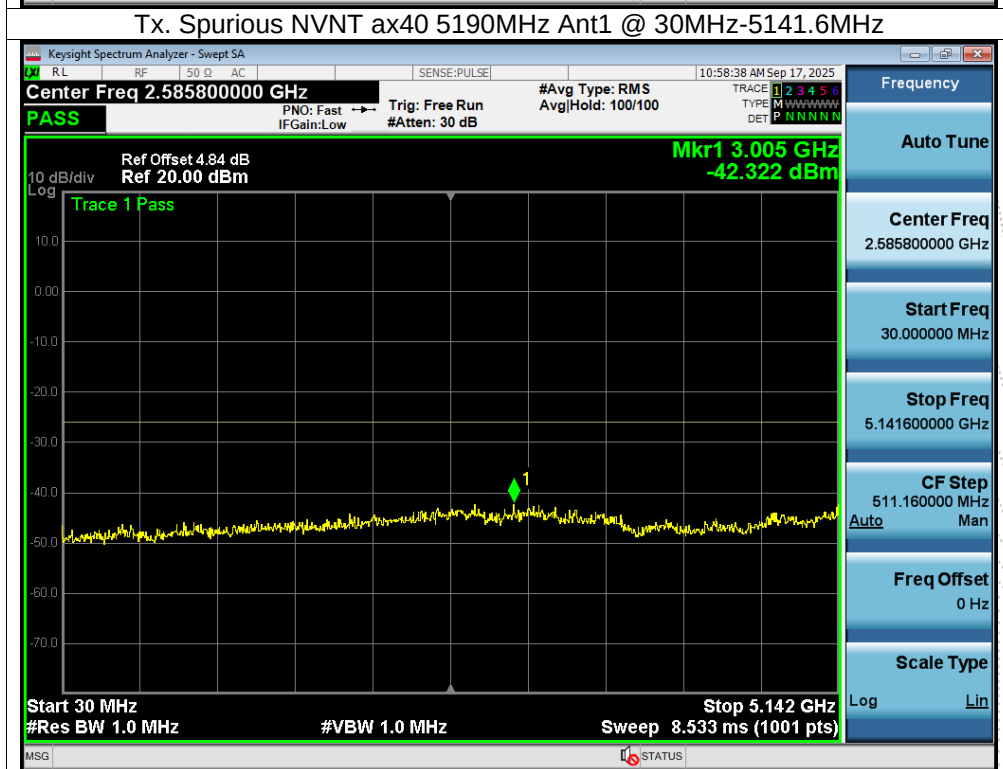




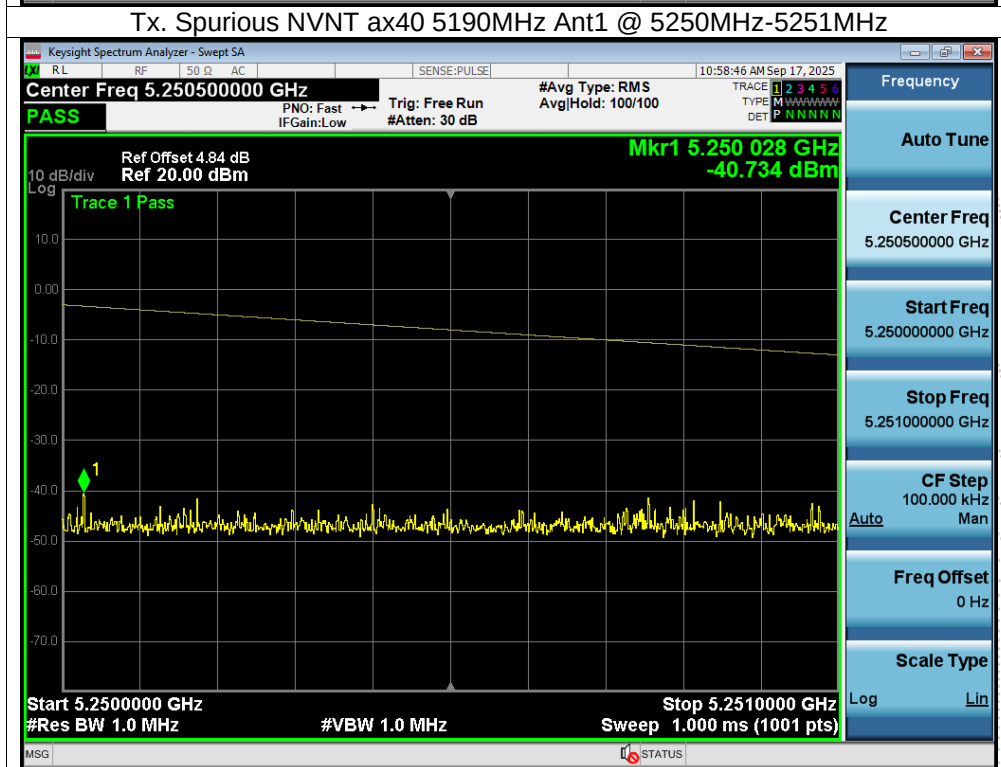
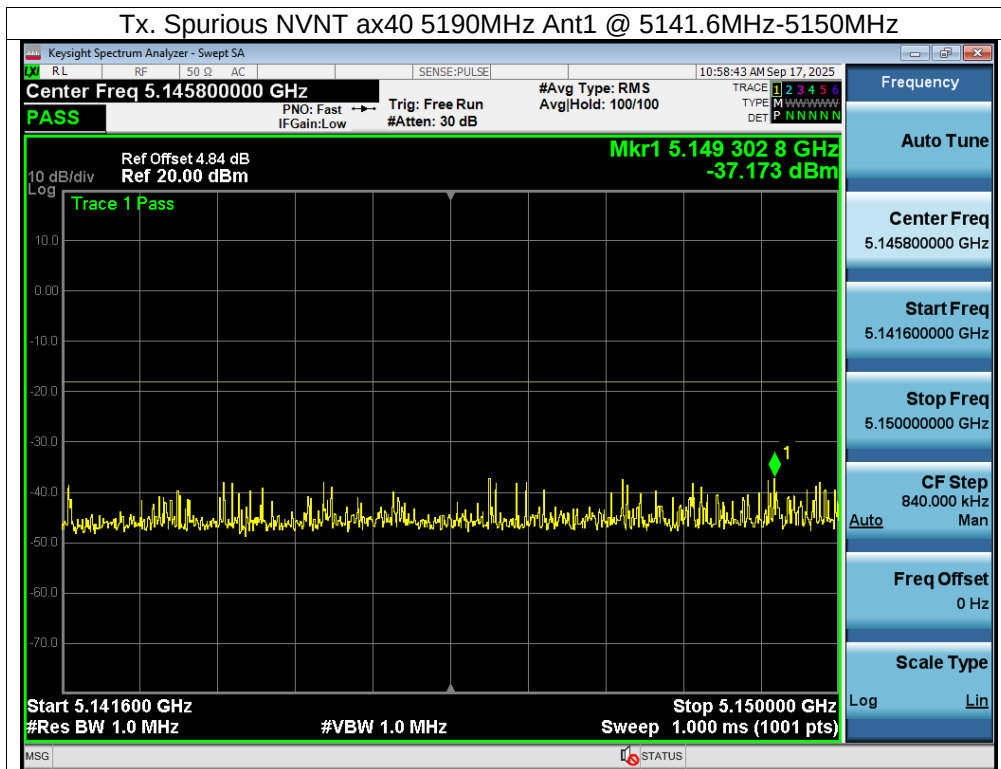


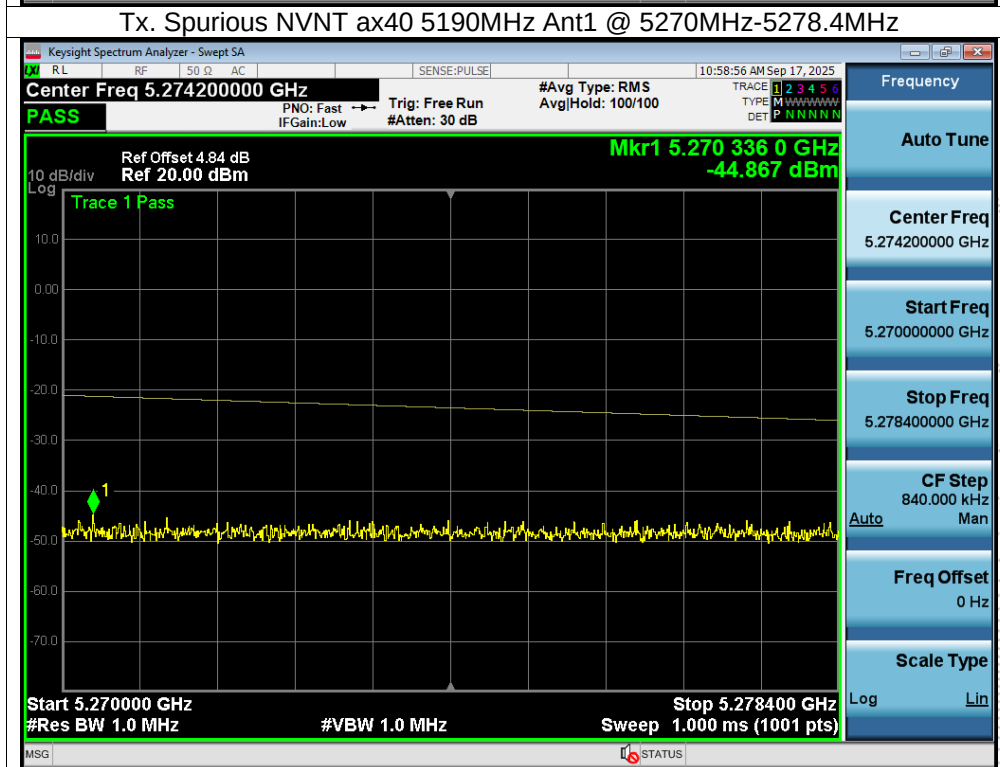
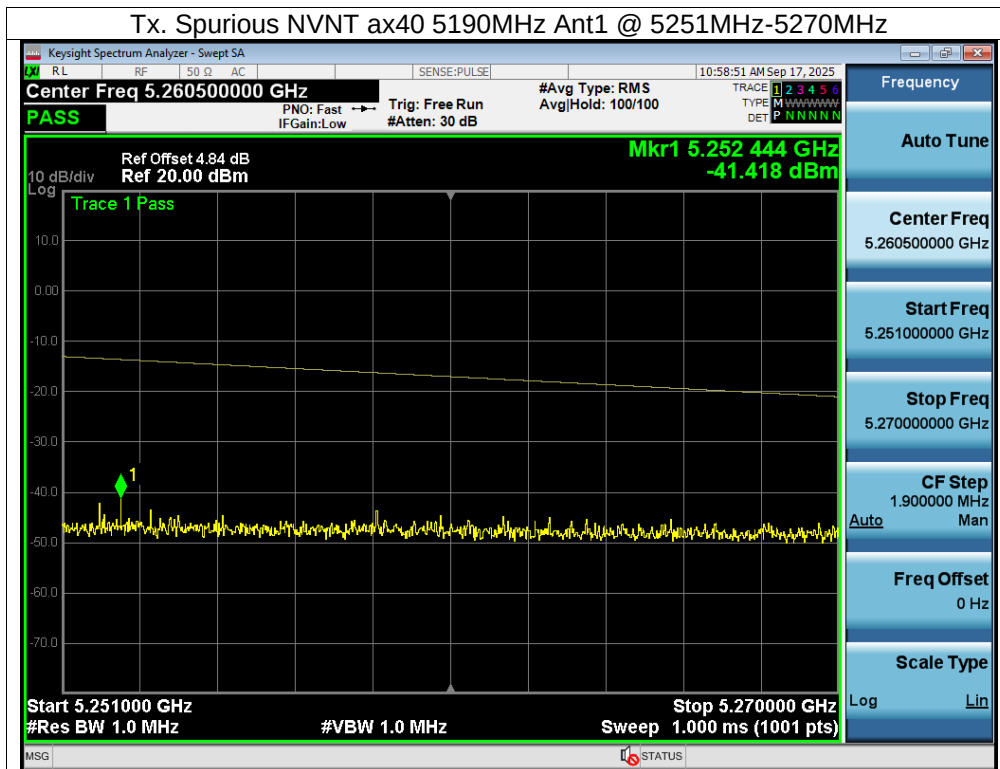


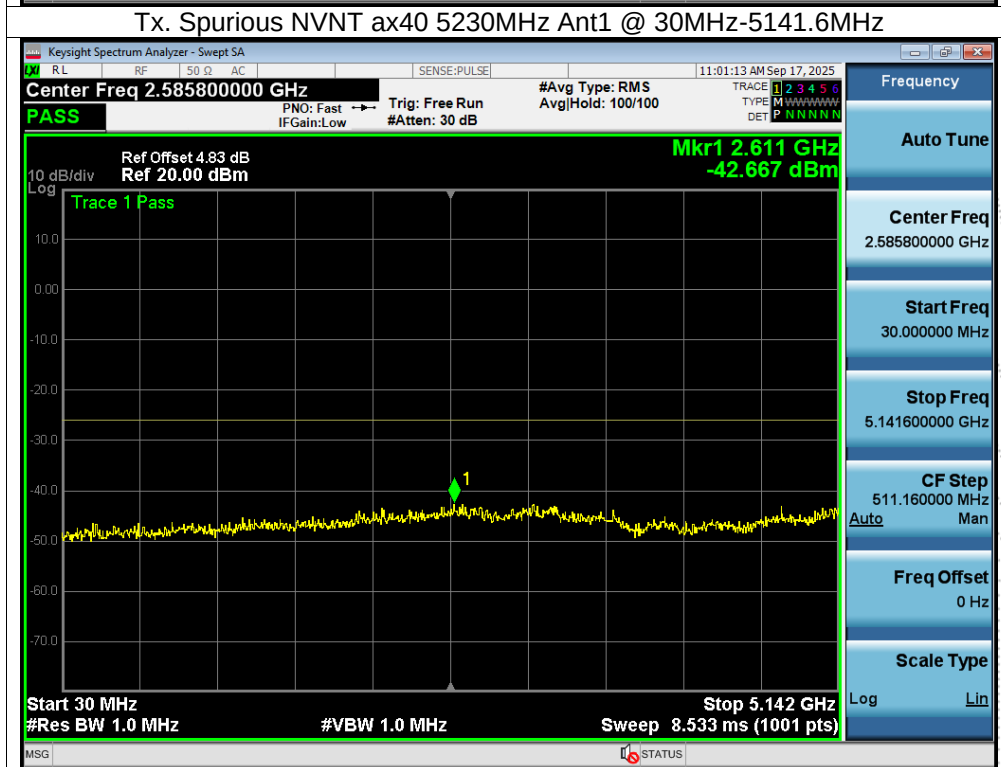


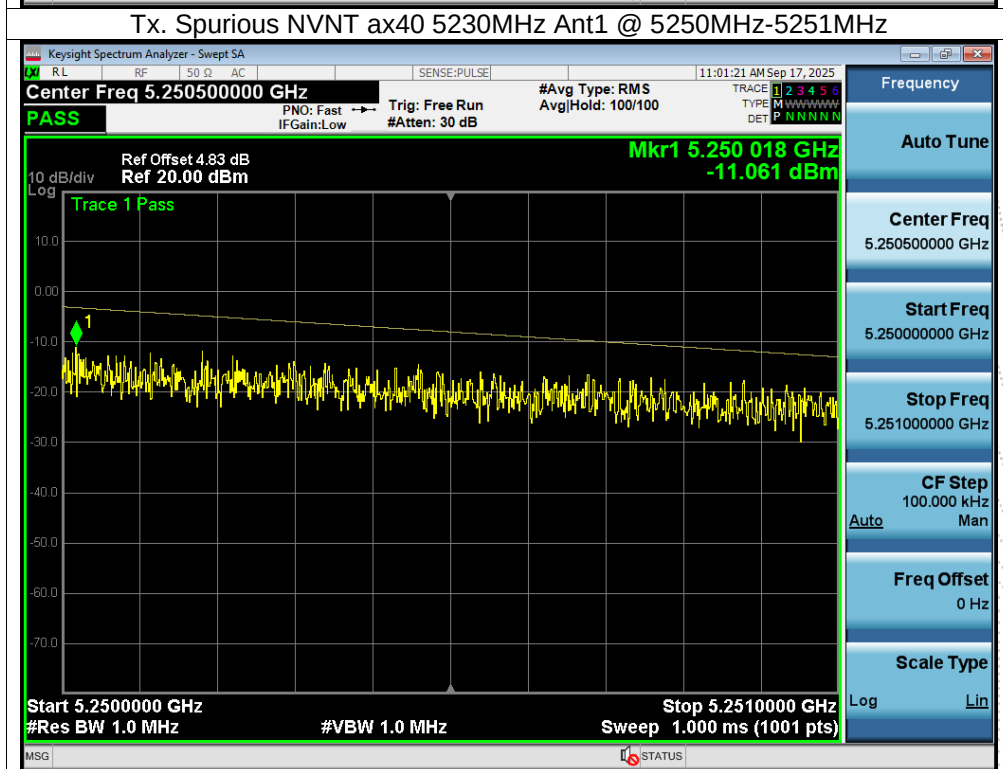
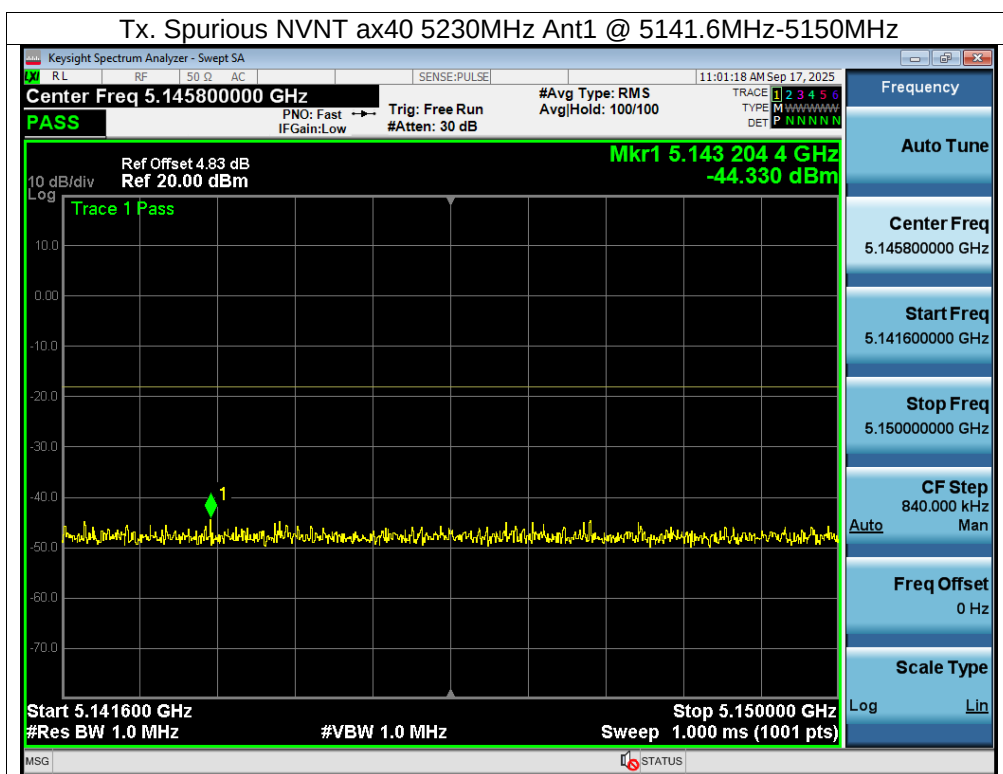


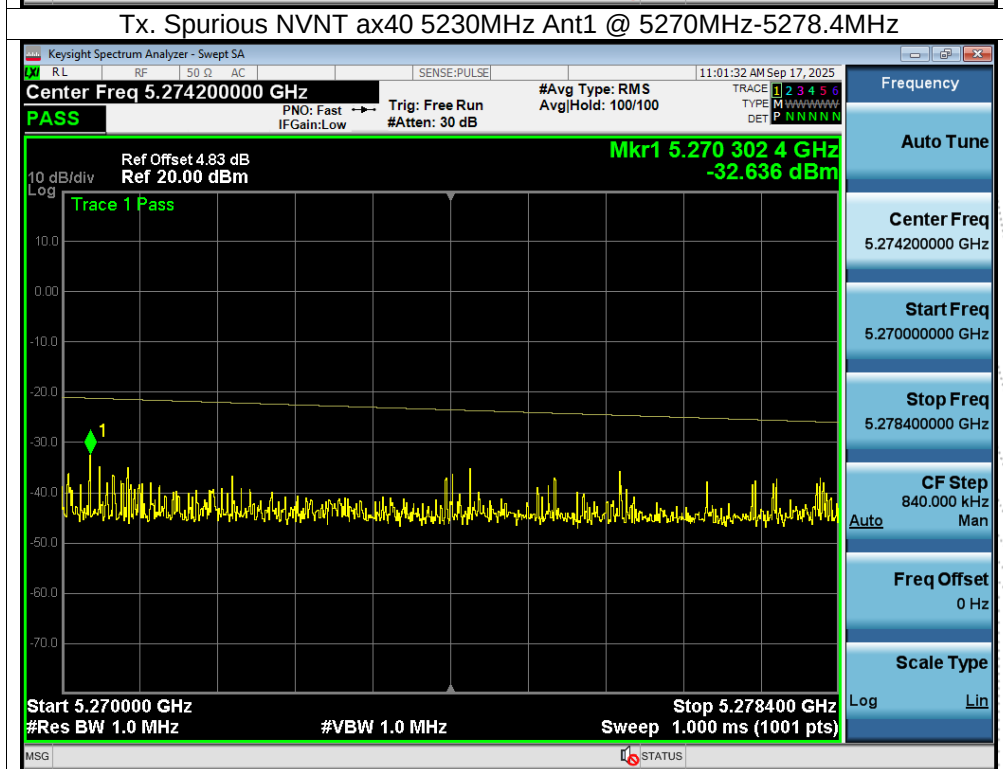
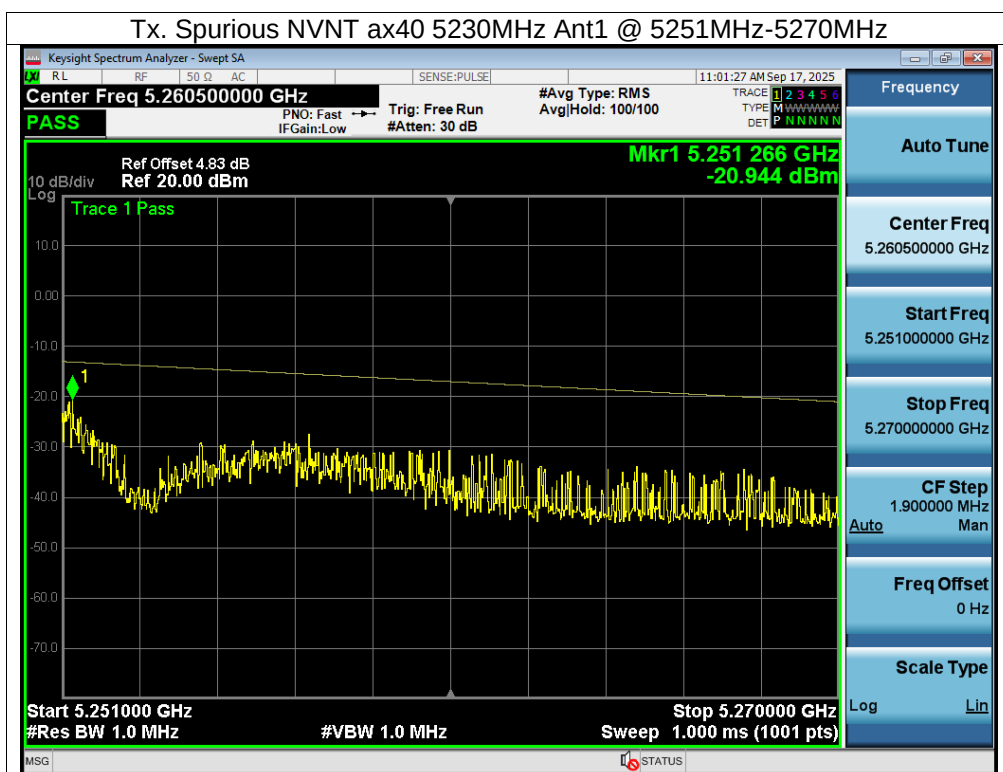
CO., LTD

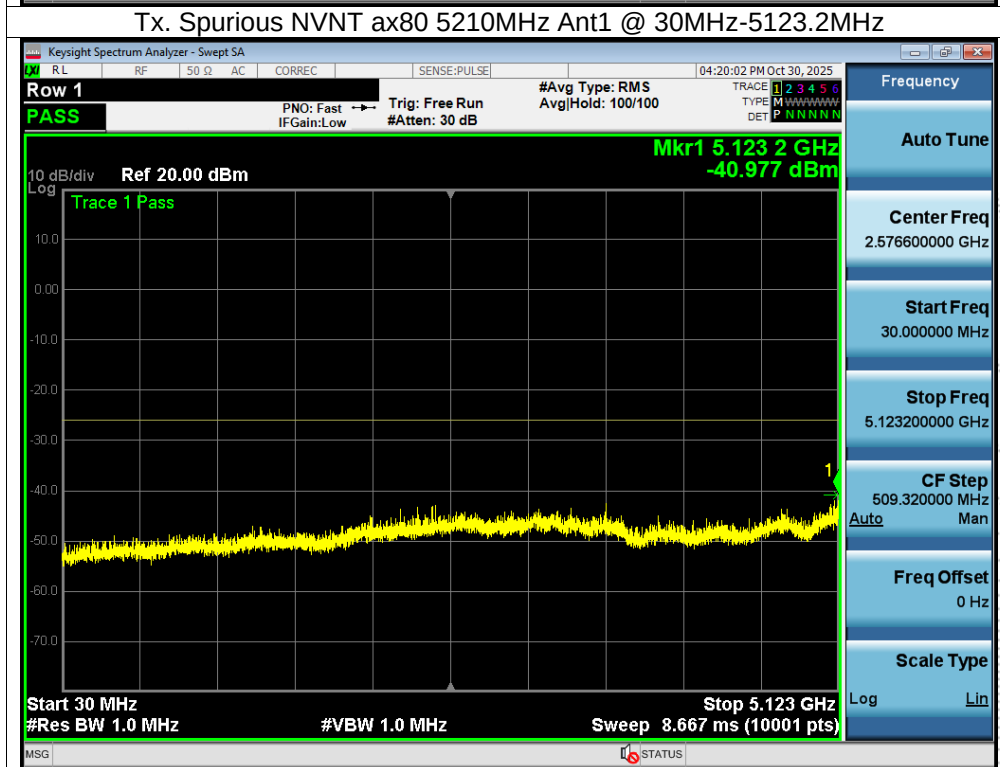
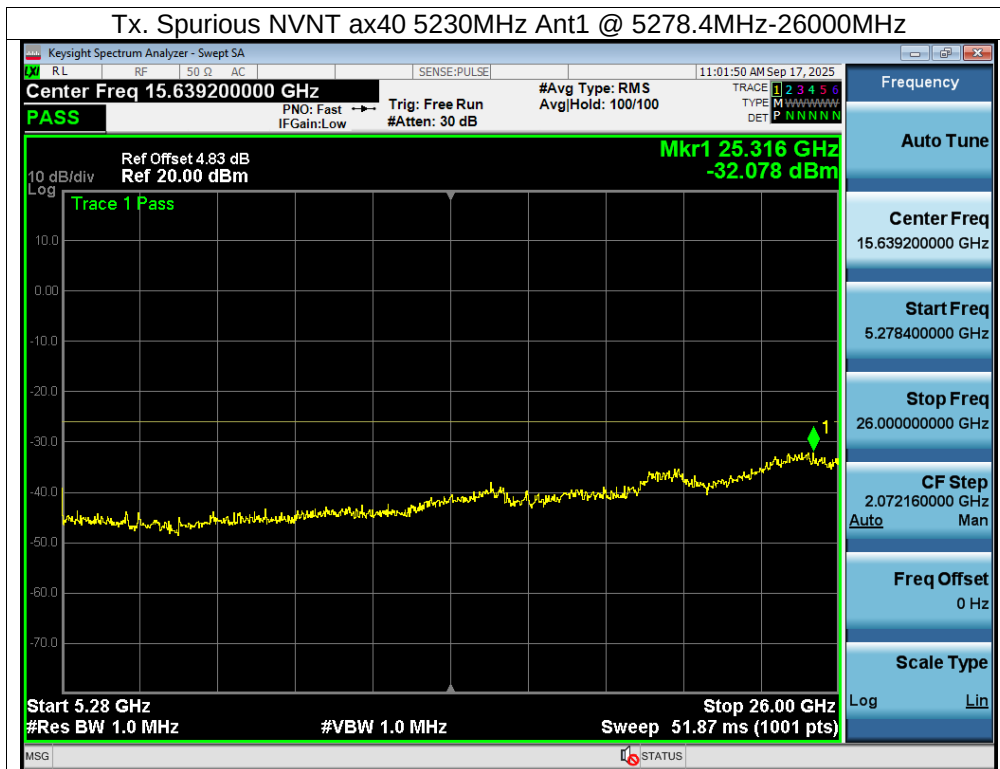


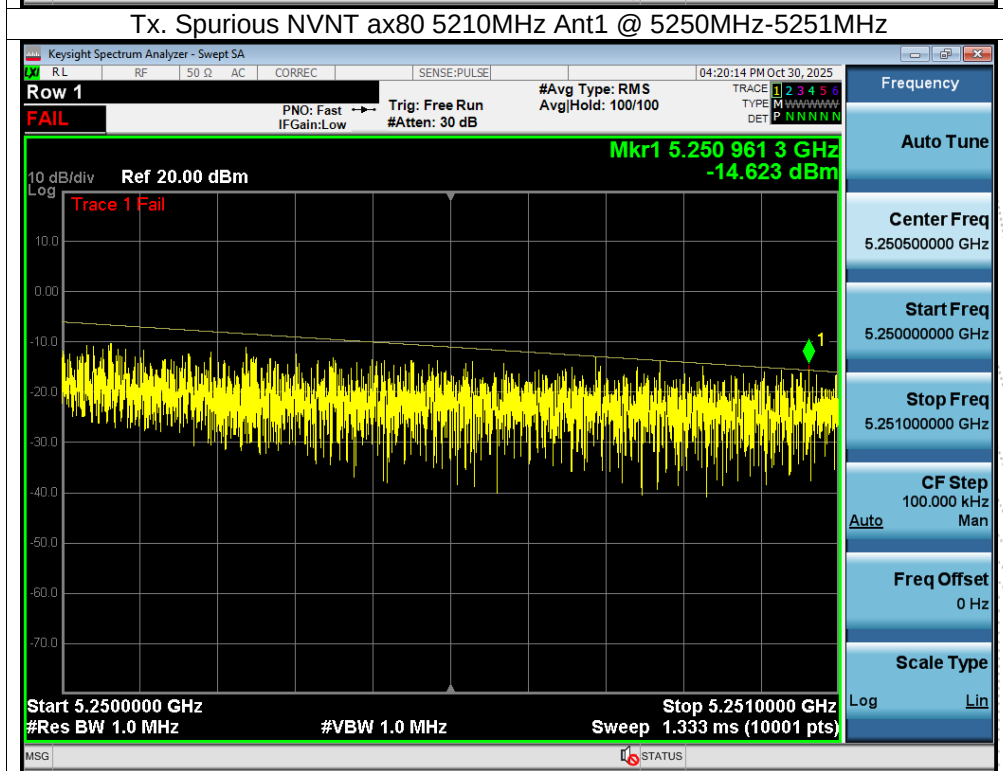
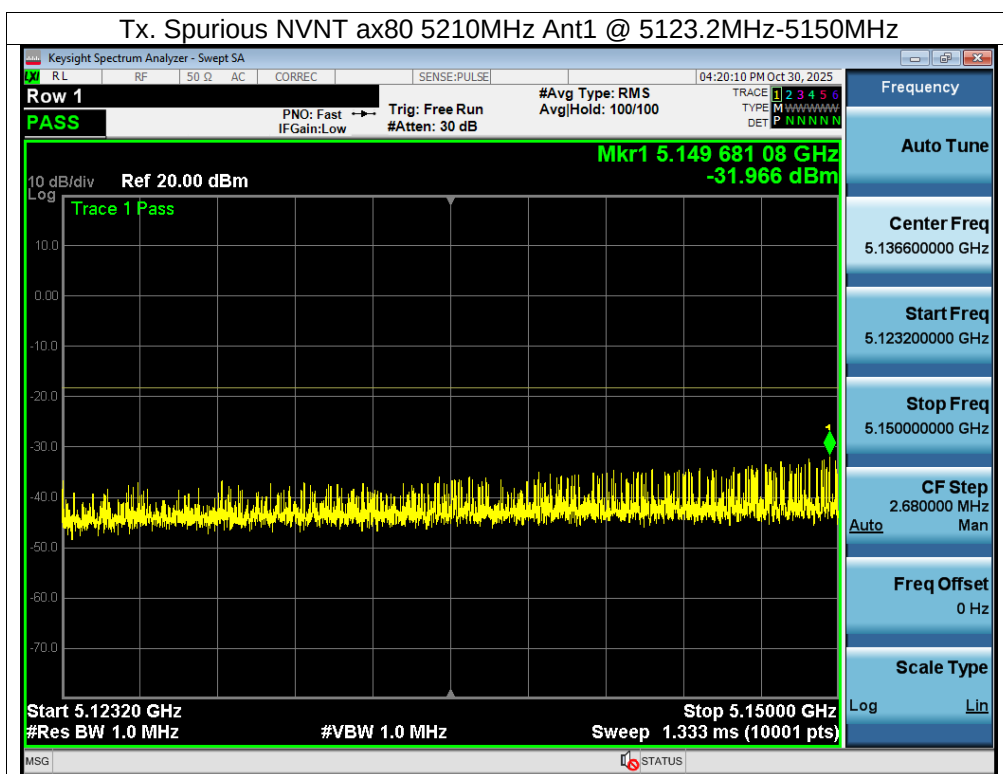


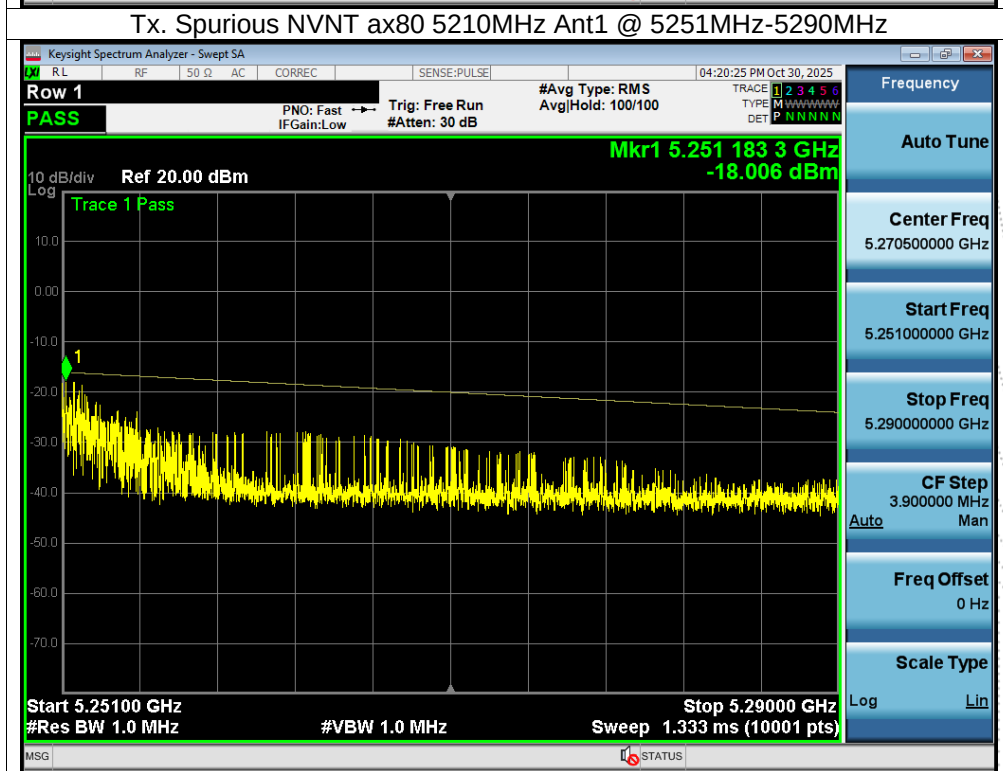
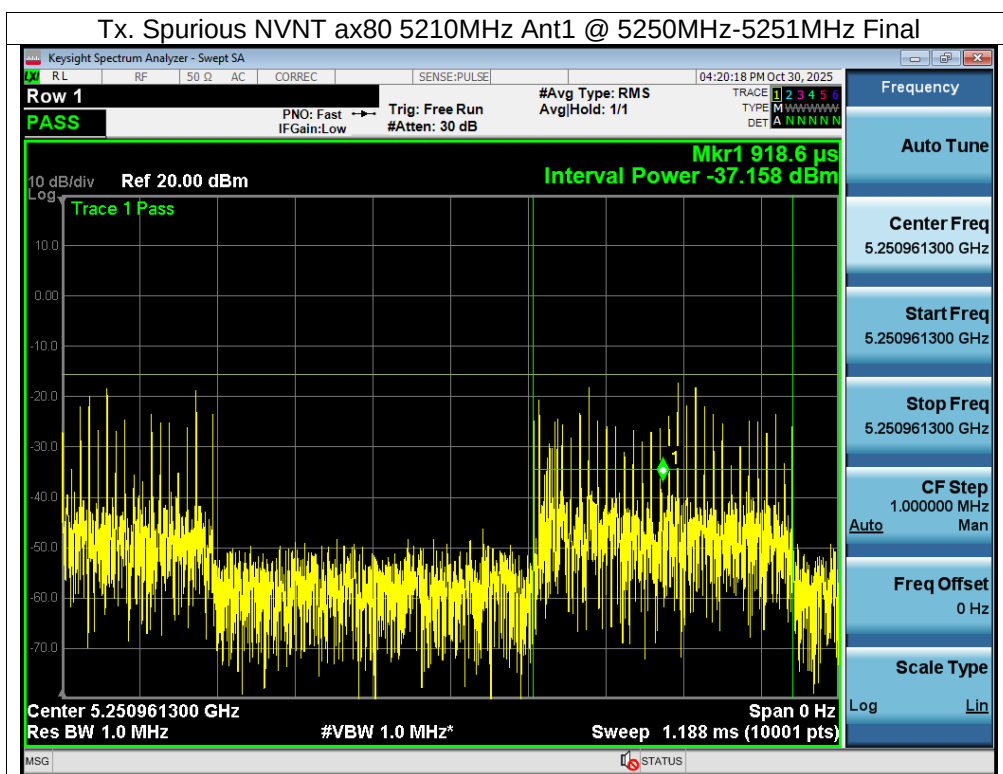


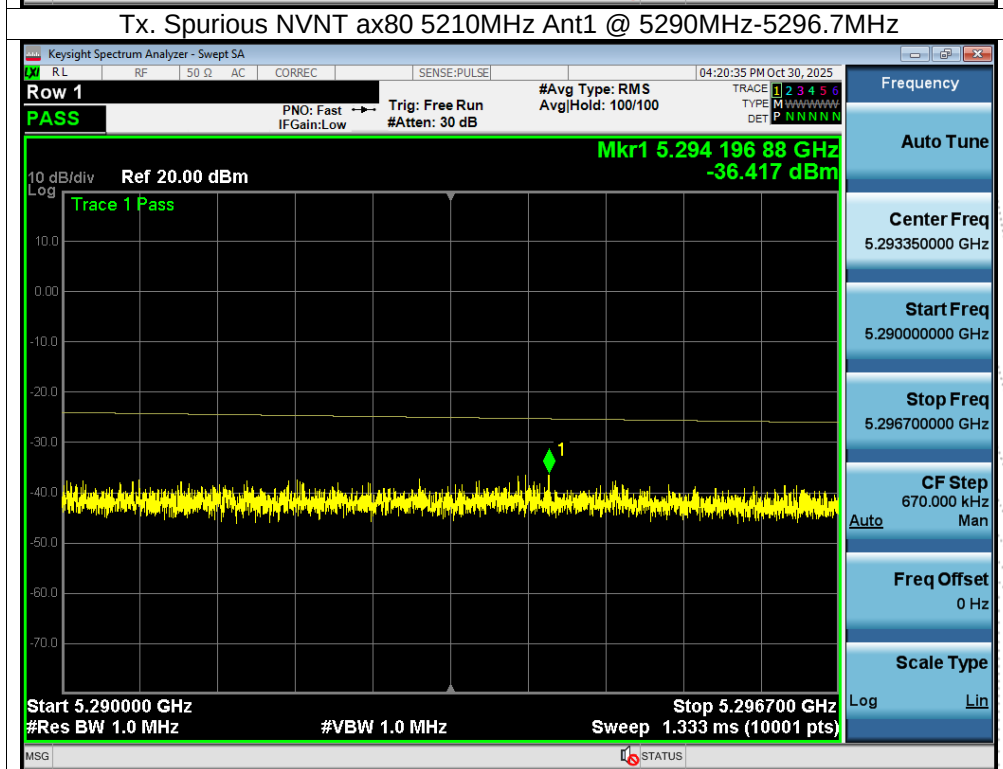
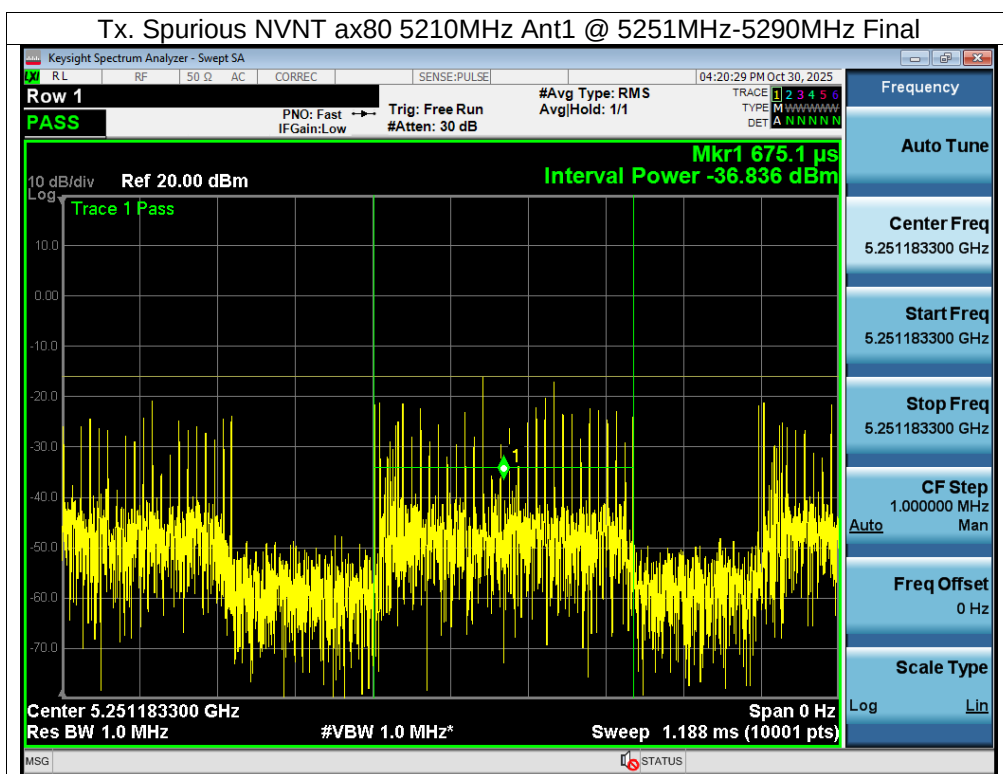


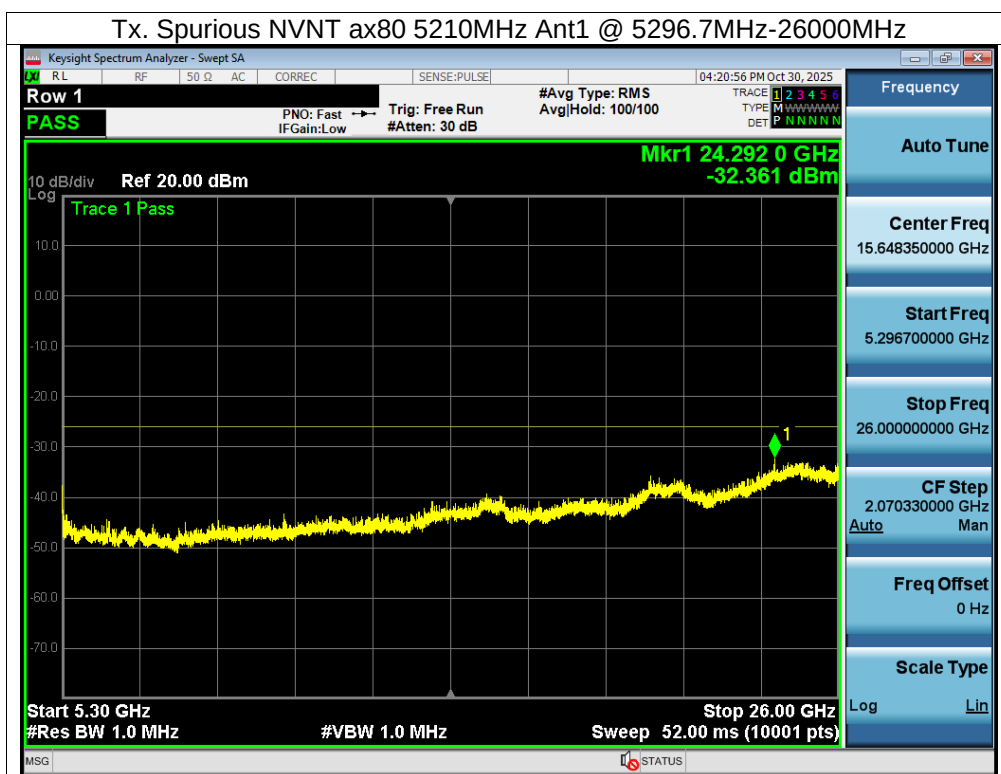








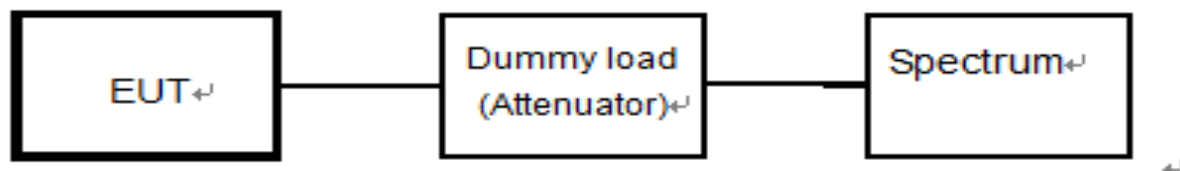




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11. Secondary Radiated Emissions Measurement

11.1 Block Diagram Of Test Setup



11.2 Limit

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}$ (-54dBm) ($f < 1\text{GHz}$)
	$\leq 20\text{nW}$ (-47dBm) ($1\text{GHz} \leq f$)

11.3 Measuring Instruments And Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

11.4 Test Procedure

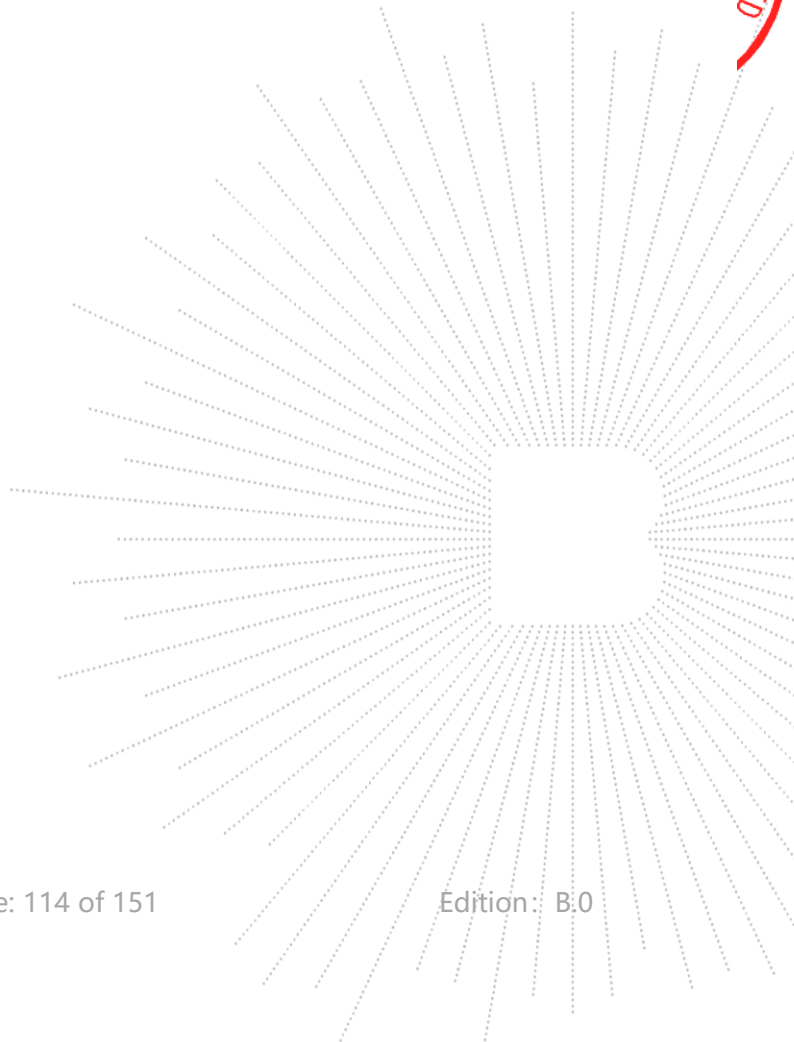
- EUT have the continuous reception mode and fixed only one channelize.
- Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / AT: 6dB / Ref: -20dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
- SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
- If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

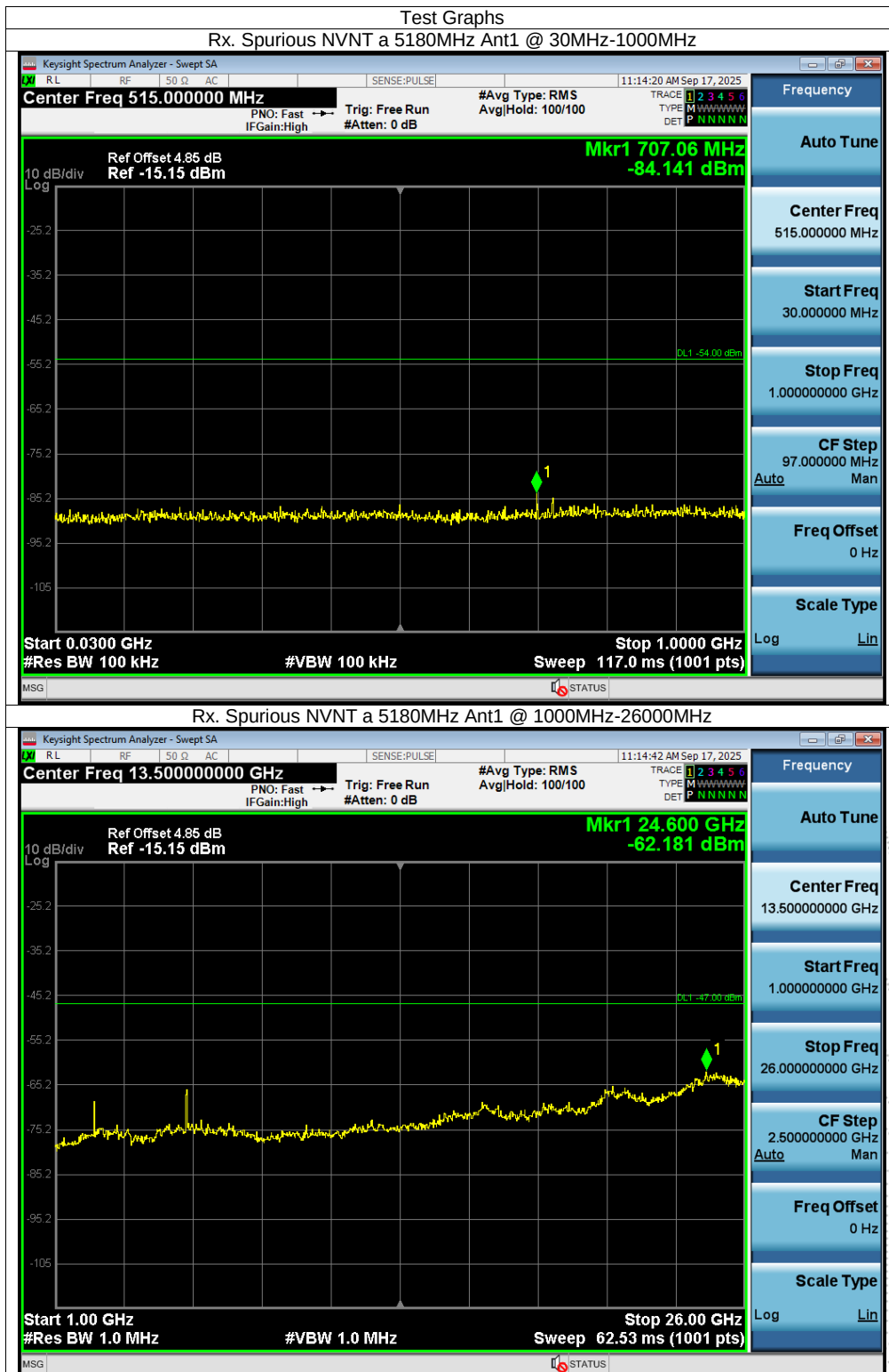
11.5 Test Result

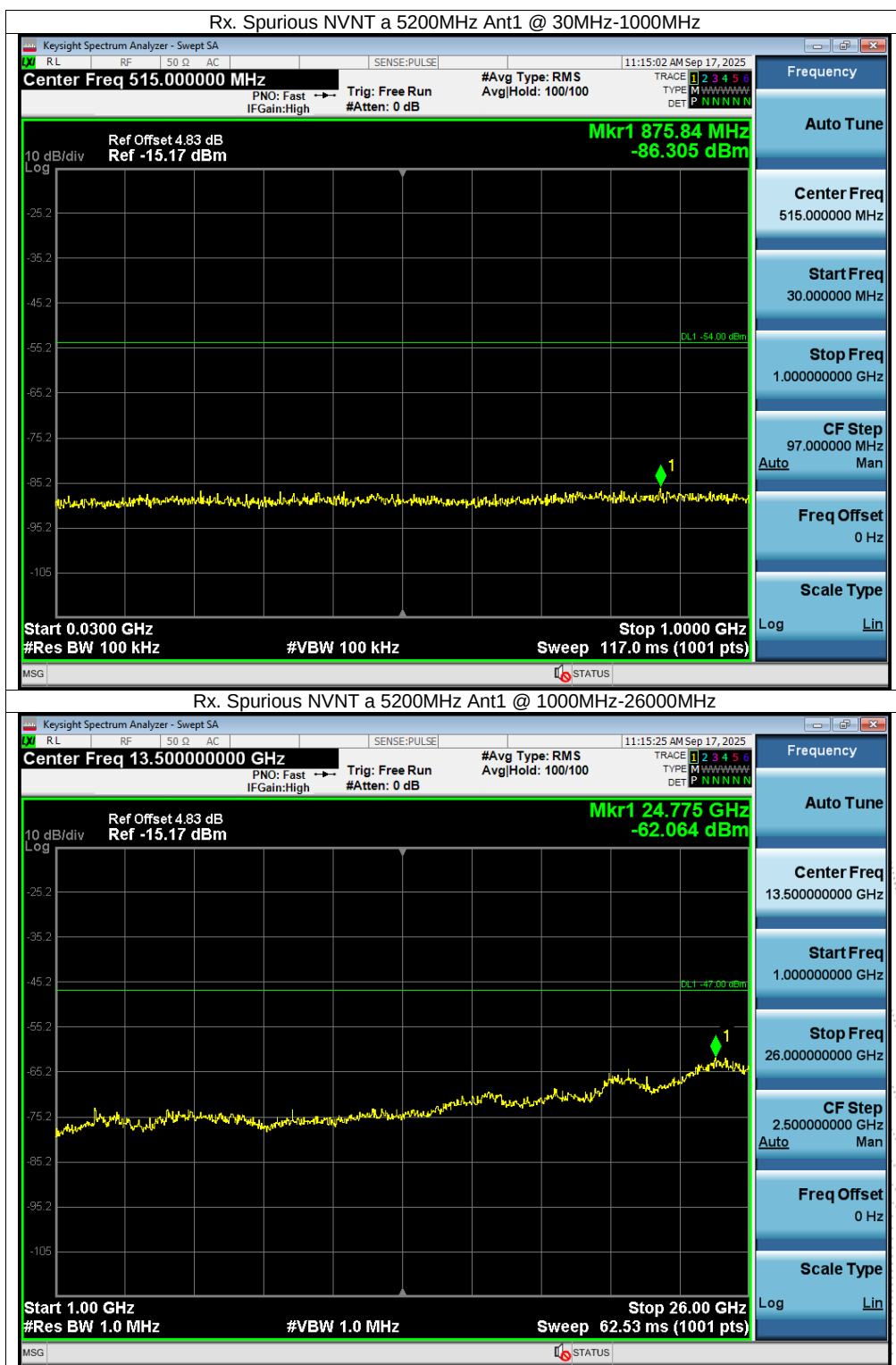
Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.8V

Condition	Mode	Frequency (MHz)	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	30-1000	707.06	-84.14	-54	Pass
NVNT	a	5180	1000-26000	24600	-62.18	-47	Pass
NVNT	a	5200	30-1000	875.84	-86.31	-54	Pass
NVNT	a	5200	1000-26000	24775	-62.06	-47	Pass
NVNT	a	5240	30-1000	919.49	-86.09	-54	Pass
NVNT	a	5240	1000-26000	25125	-62.45	-47	Pass
NVNT	n40	5190	30-1000	886.51	-85.75	-54	Pass
NVNT	n40	5190	1000-26000	24950	-61.91	-47	Pass
NVNT	n40	5230	30-1000	919.49	-86.05	-54	Pass
NVNT	n40	5230	1000-26000	24925	-61.33	-47	Pass
NVNT	ax80	5210	30-1000	704.93	-83.54	-54	Pass
NVNT	ax80	5210	1000-26000	24670.00	-62.64	-47	Pass

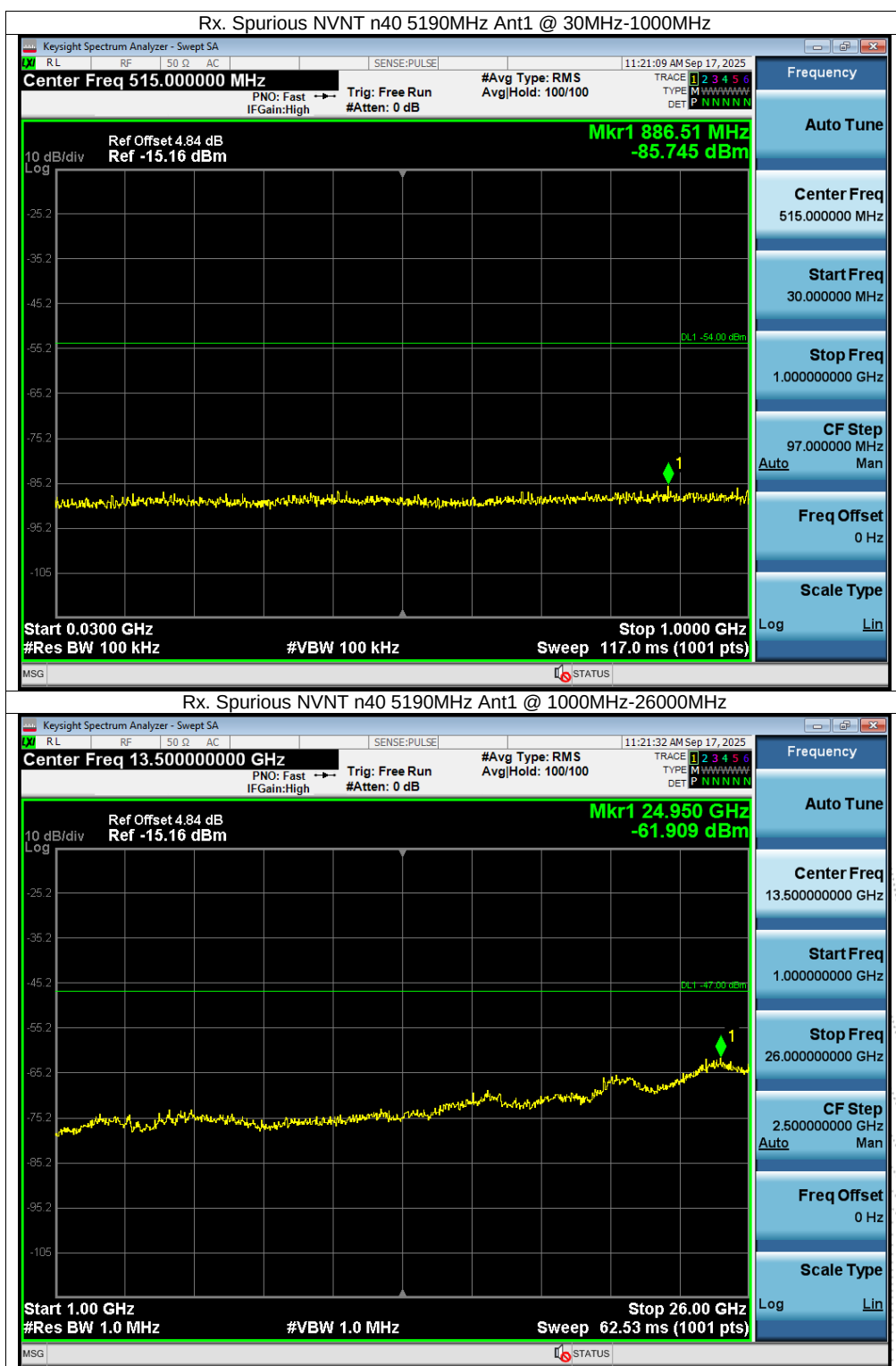
BCTC CO., LTD.

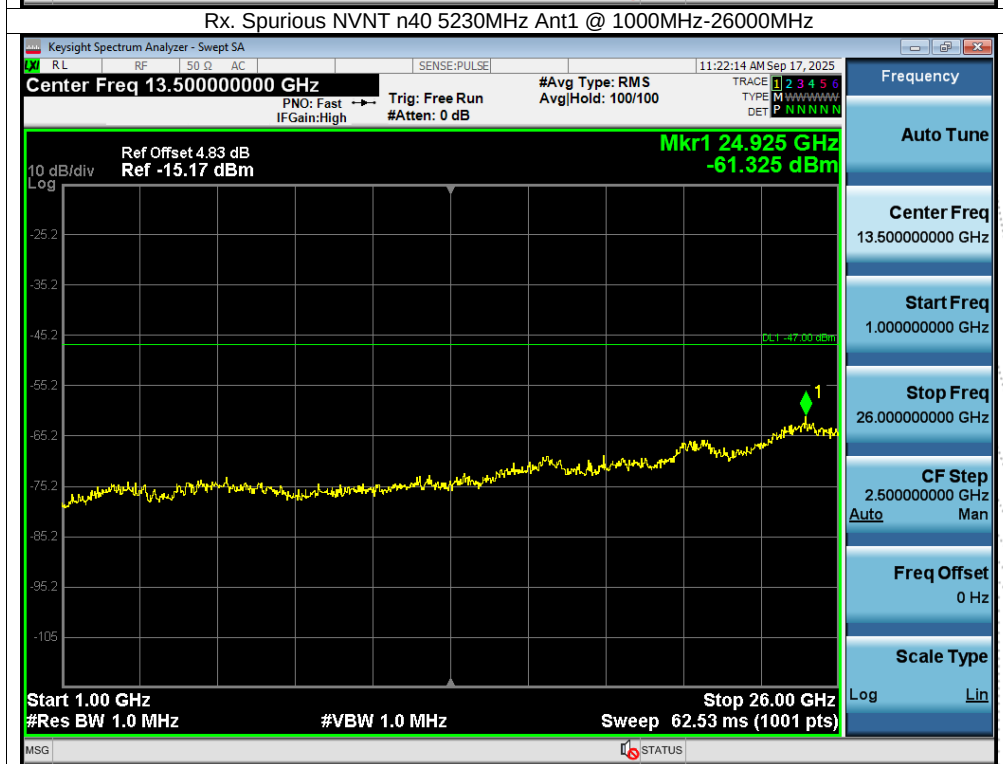
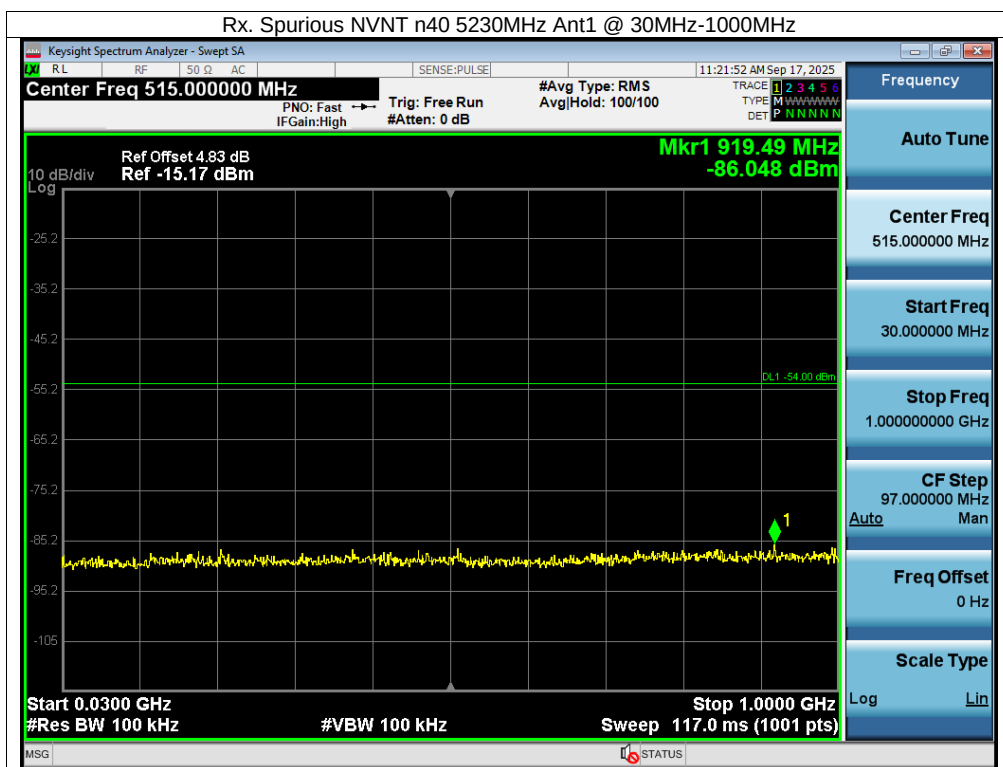


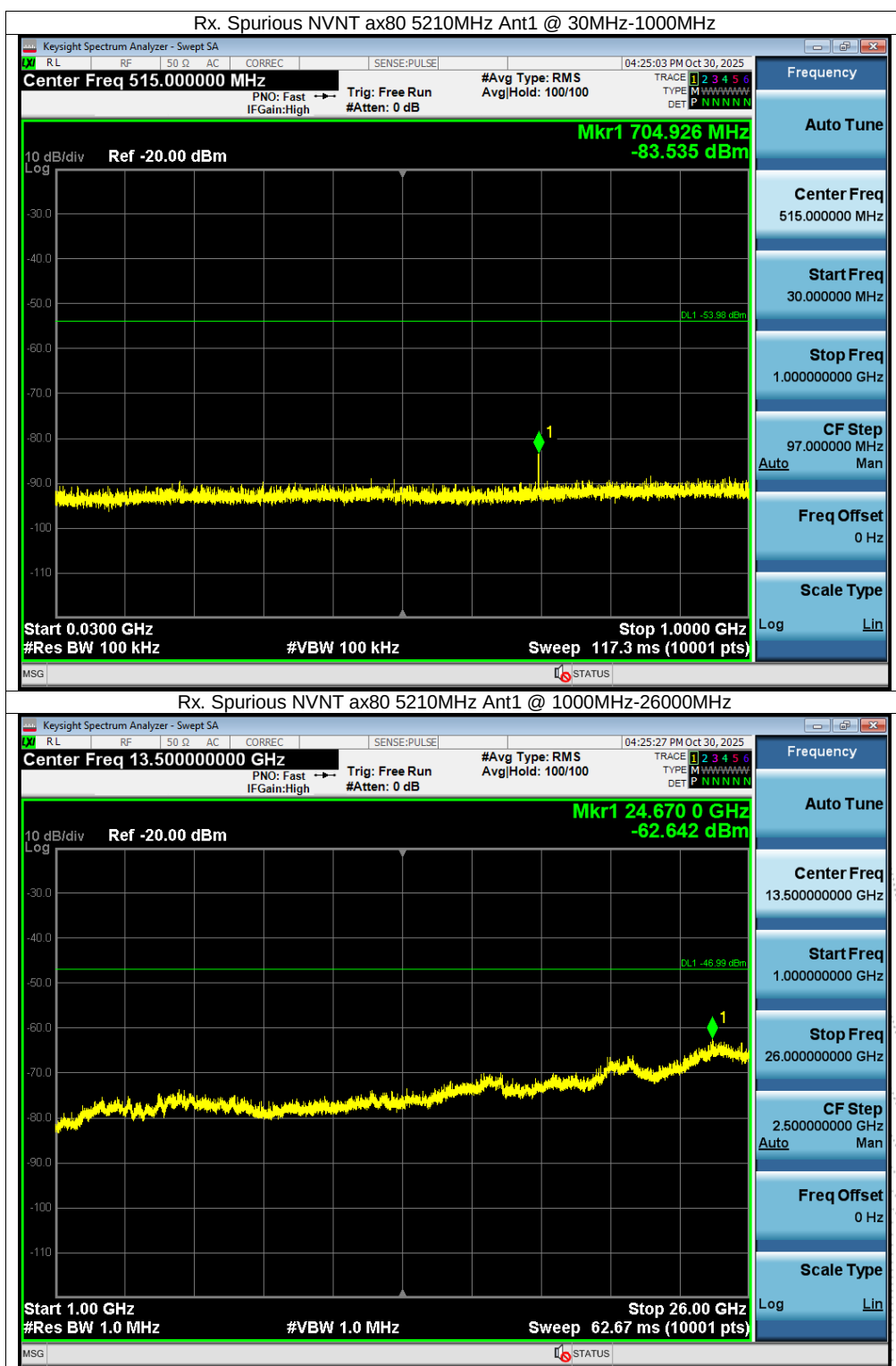






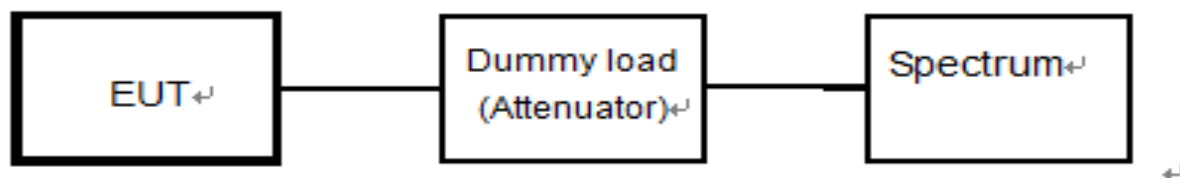






12. Transmitter Burst Length Measurement

12.1 Block Diagram Of Test Setup



12.2 Limit

Item	Limits
Transmitter Burst Length	≤8msecond

12.3 Measuring Instruments And Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Center frequency	Test frequency
Sweep bandwidth	0Hz
Resoluble bandwidth	1MHz
Video bandwidth	equivalent to resolvable bandwidth
Sweep Time	Minimum time to assure measuring accuracy
Y-axis scale	10dB/Div.
Detection mode	Positive peak
Trigger condition	Rising up of level

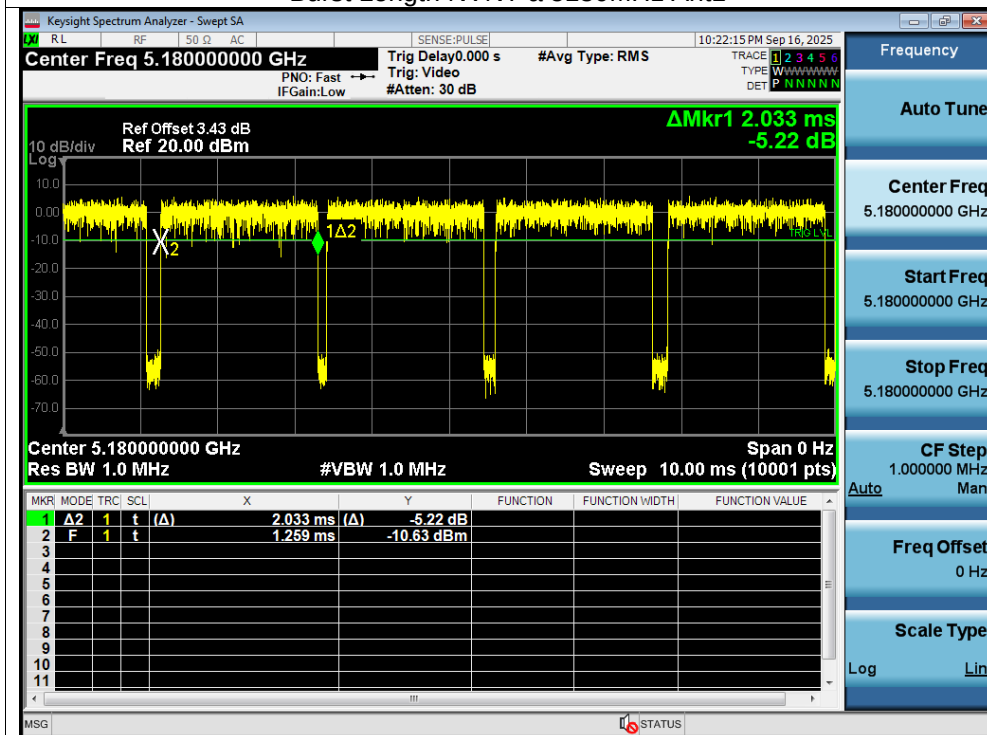
12.4 Test Result

Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.8V

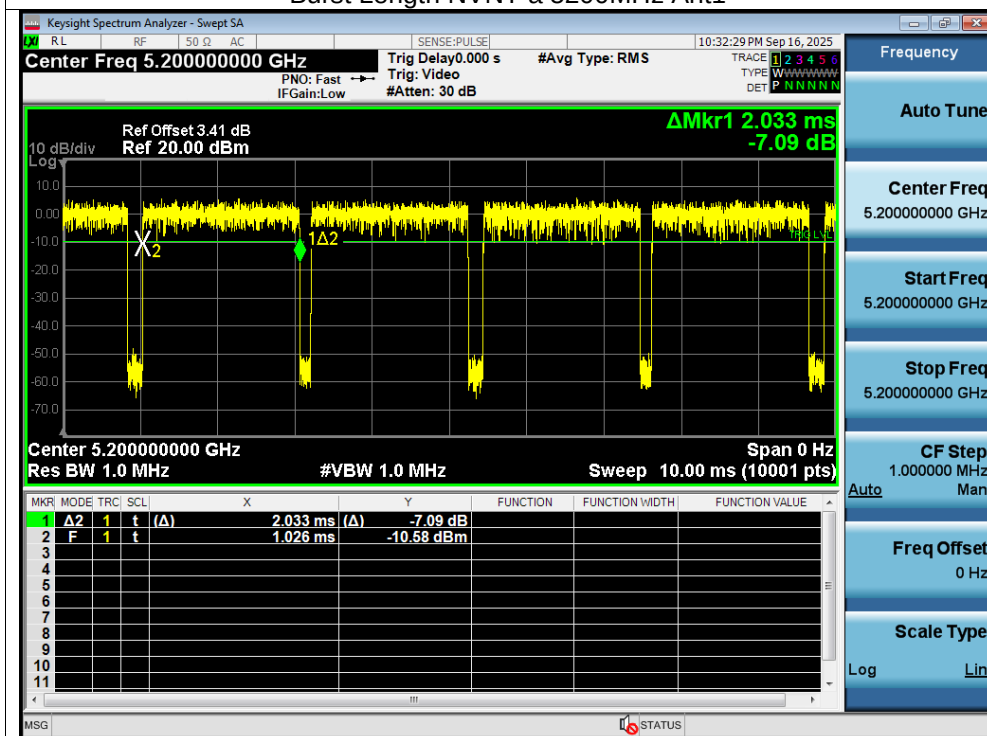
Condition	Mode	Antenna	Burst Length (ms)	Limit (ms)	Verdict
NVNT	a	5180	2.033	8	Pass
NVNT	a	5200	2.033	8	Pass
NVNT	a	5240	2.033	8	Pass
NVNT	n20	5180	1.893	8	Pass
NVNT	n20	5200	1.893	8	Pass
NVNT	n20	5240	1.893	8	Pass
NVNT	n40	5190	0.933	8	Pass
NVNT	n40	5230	0.933	8	Pass
NVNT	ac20	5180	1.901	8	Pass
NVNT	ac20	5200	1.901	8	Pass
NVNT	ac20	5240	1.902	8	Pass
NVNT	ac40	5190	0.937	8	Pass
NVNT	ac40	5230	0.937	8	Pass
NVNT	ac80	5210	0.457	8	Pass
NVNT	ax20	5180	1.462	8	Pass
NVNT	ax20	5200	1.462	8	Pass
NVNT	ax20	5240	1.462	8	Pass
NVNT	ax40	5190	0.763	8	Pass
NVNT	ax40	5230	0.763	8	Pass
NVNT	ax80	5210	0.396	8	Pass

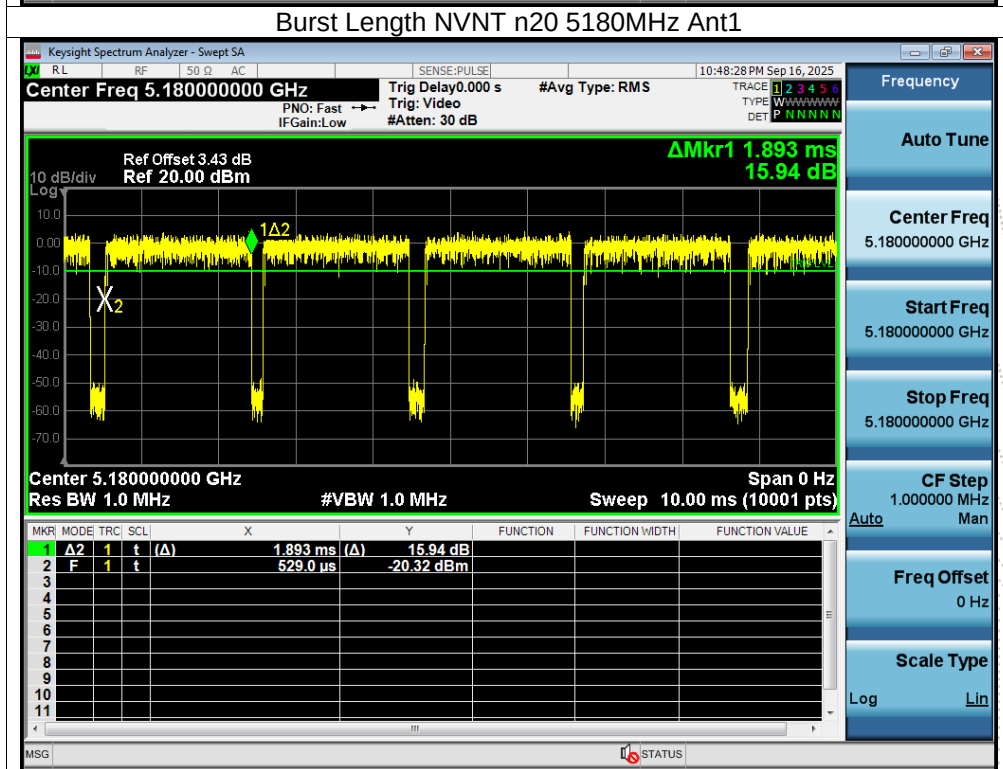
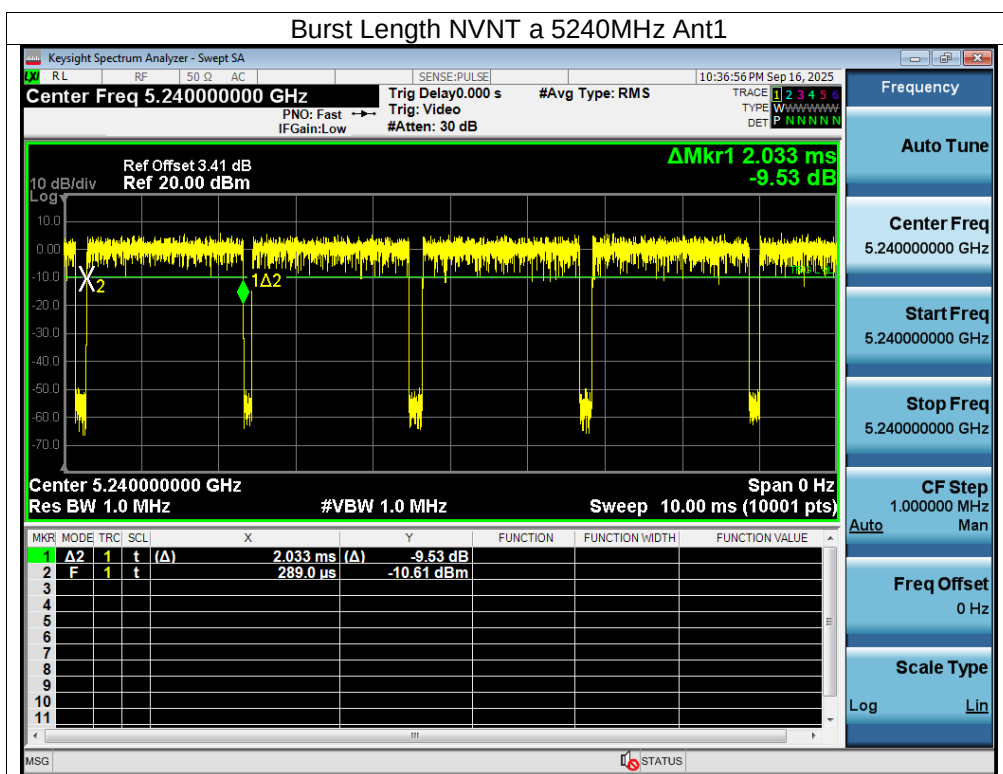
Test Graphs

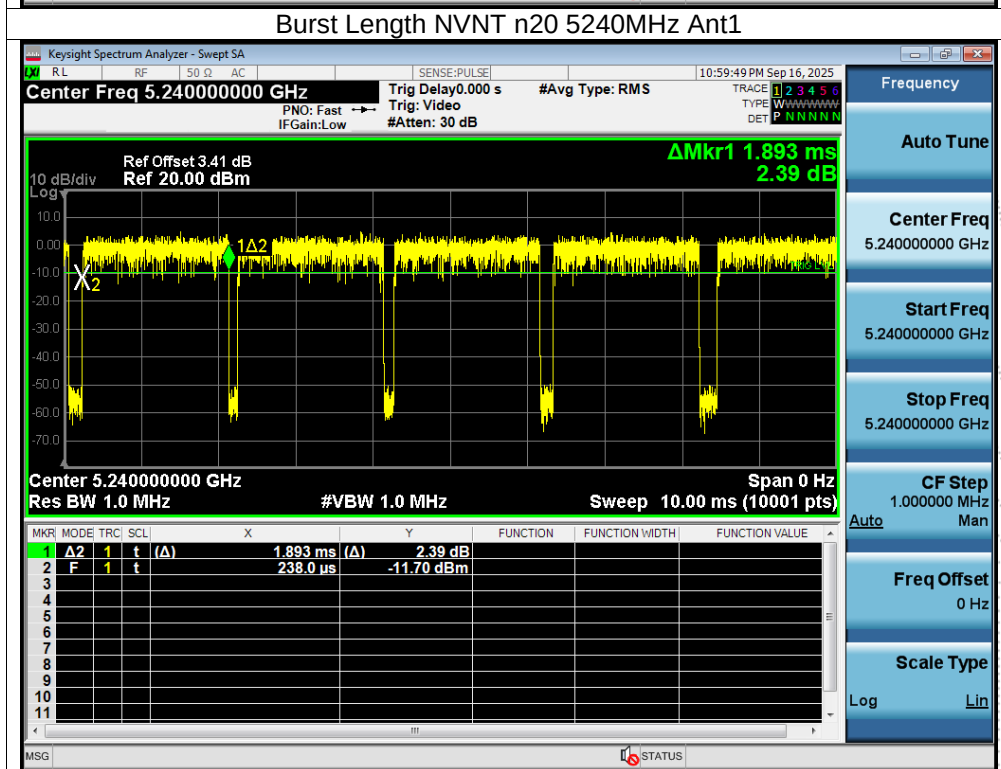
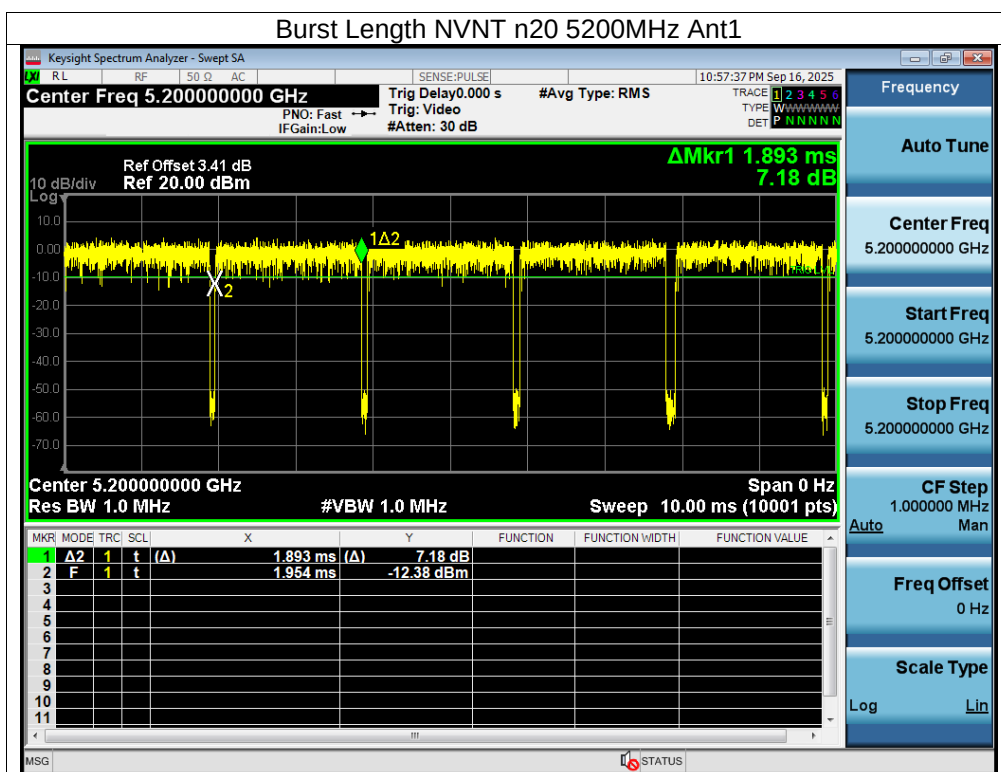
Burst Length NVNT a 5180MHz Ant1

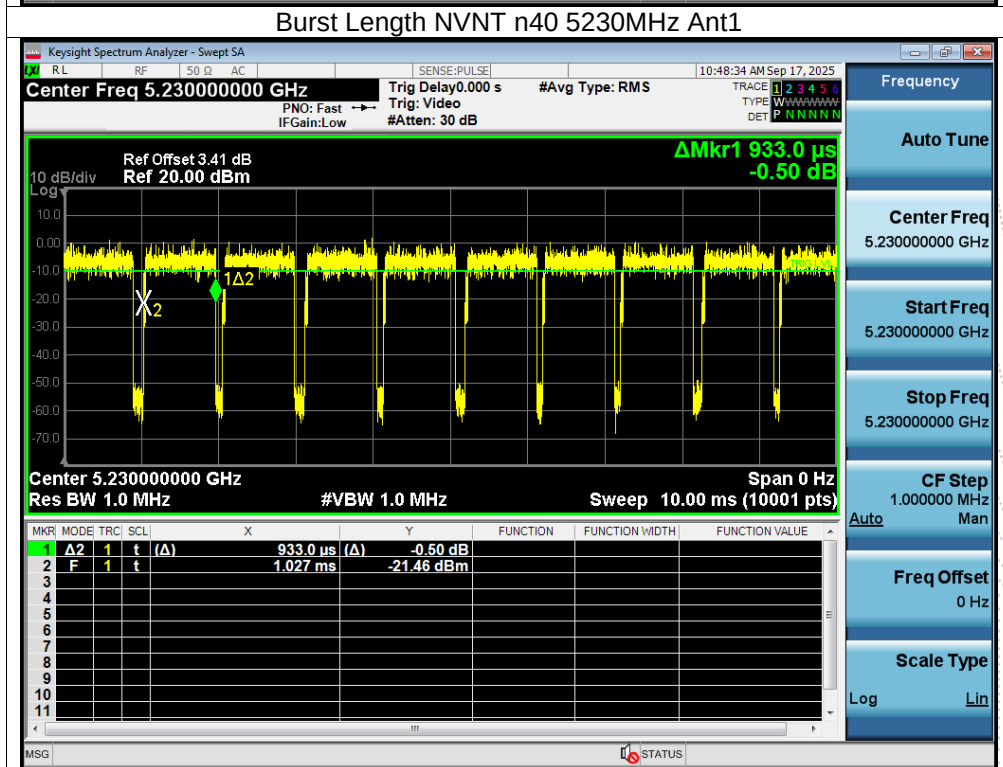
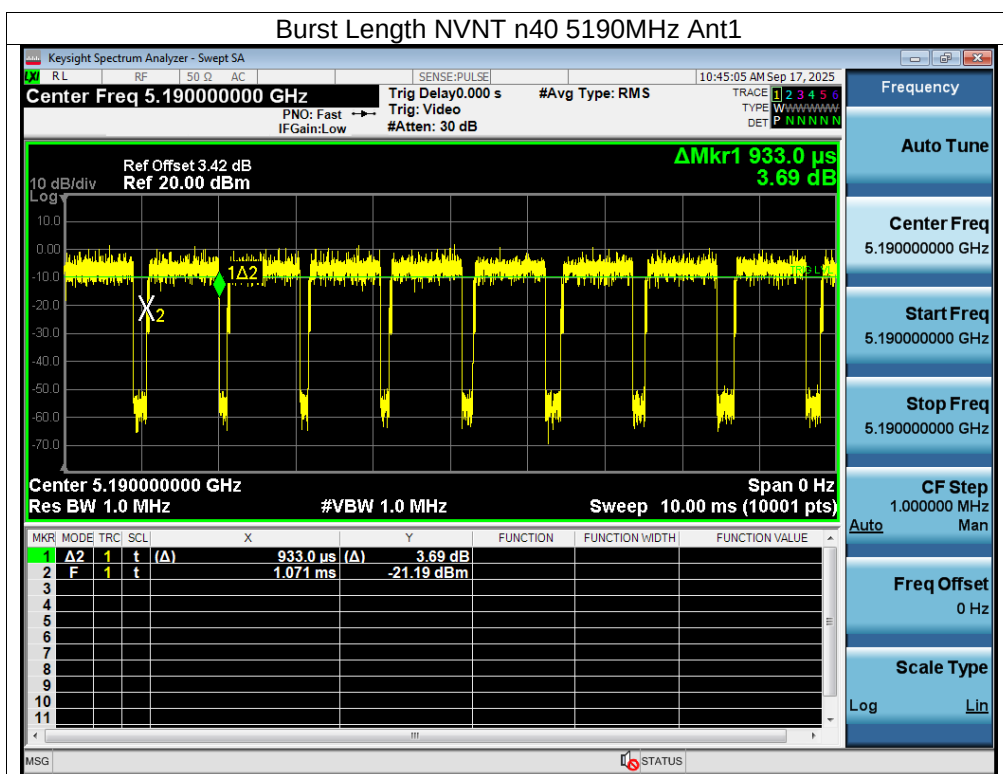


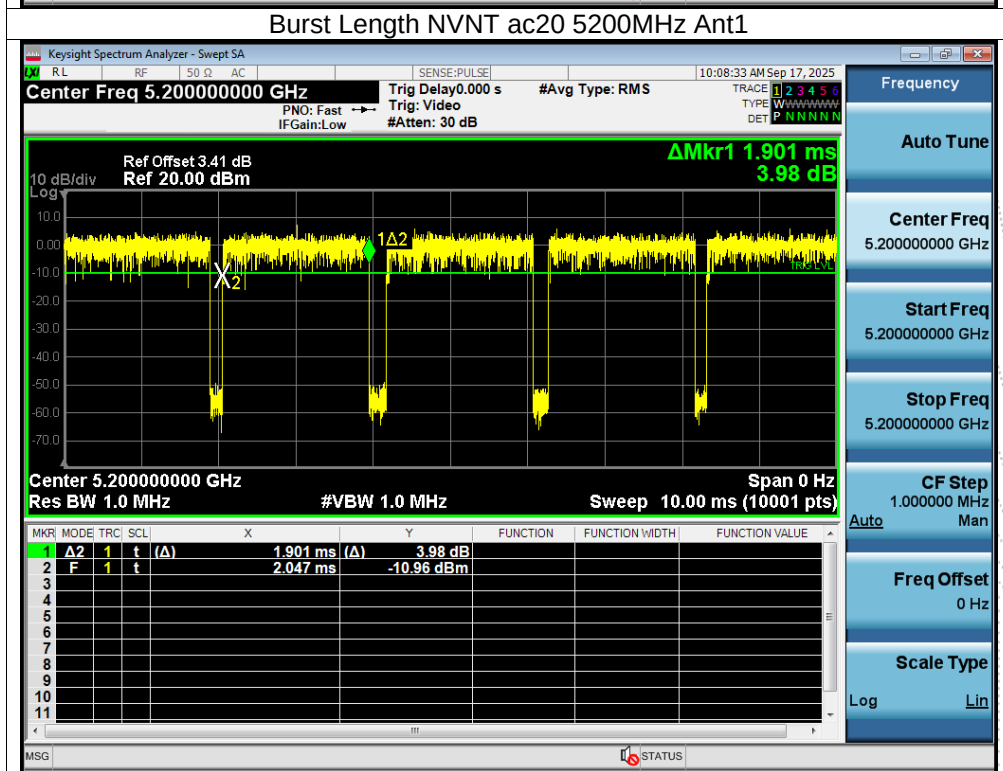
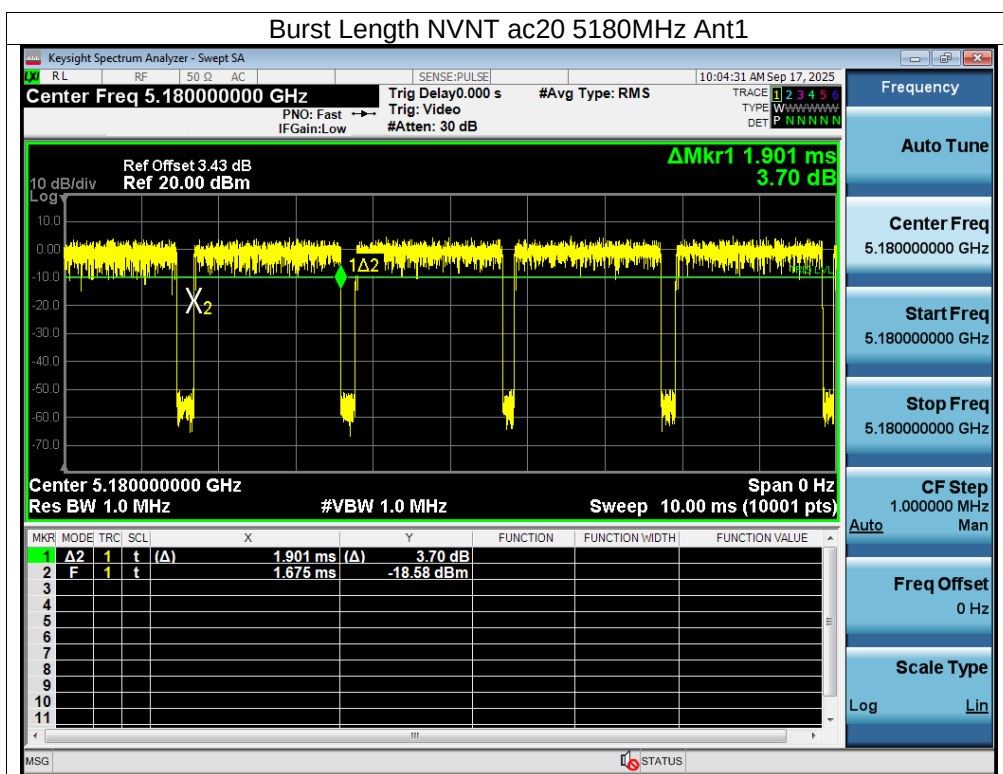
Burst Length NVNT a 5200MHz Ant1

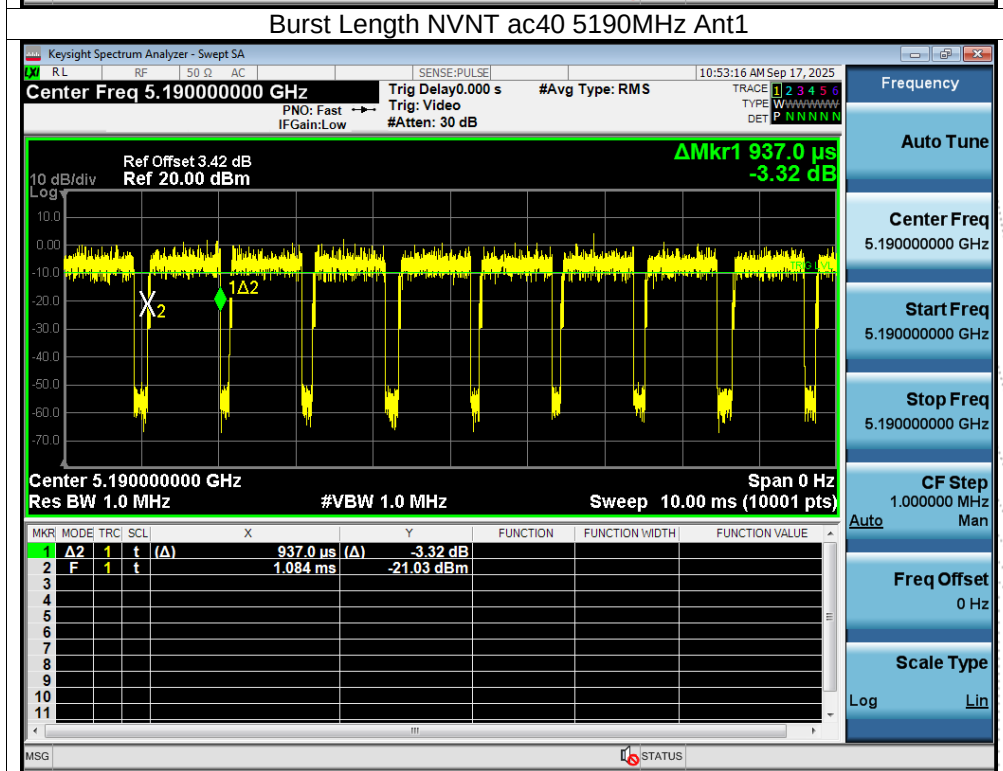
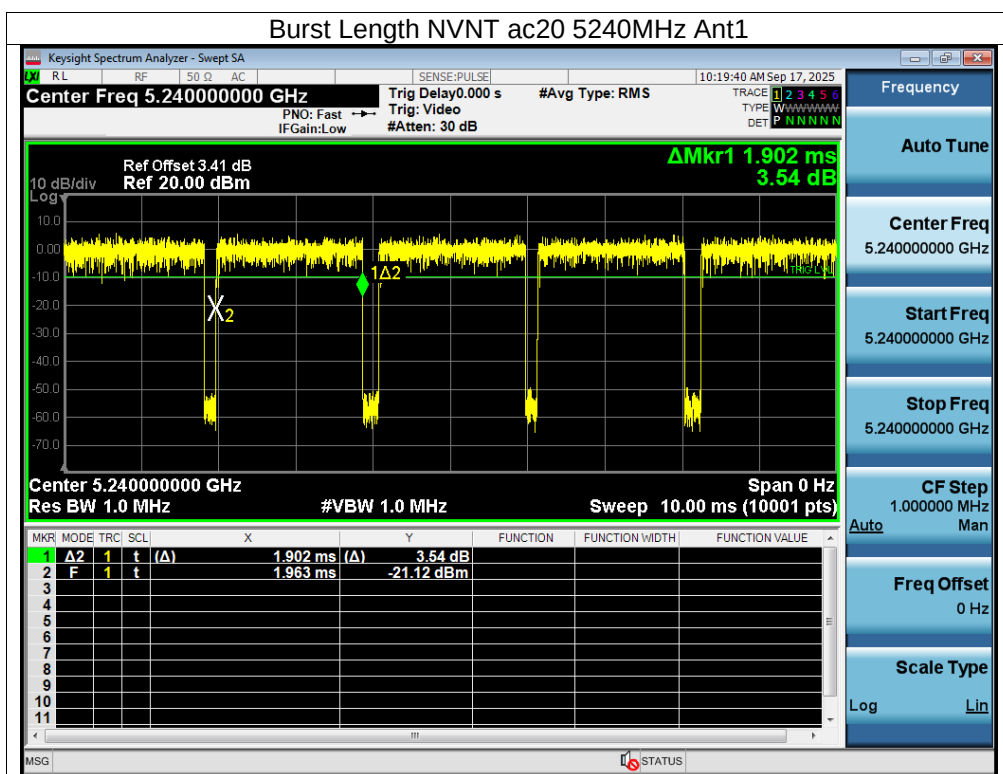


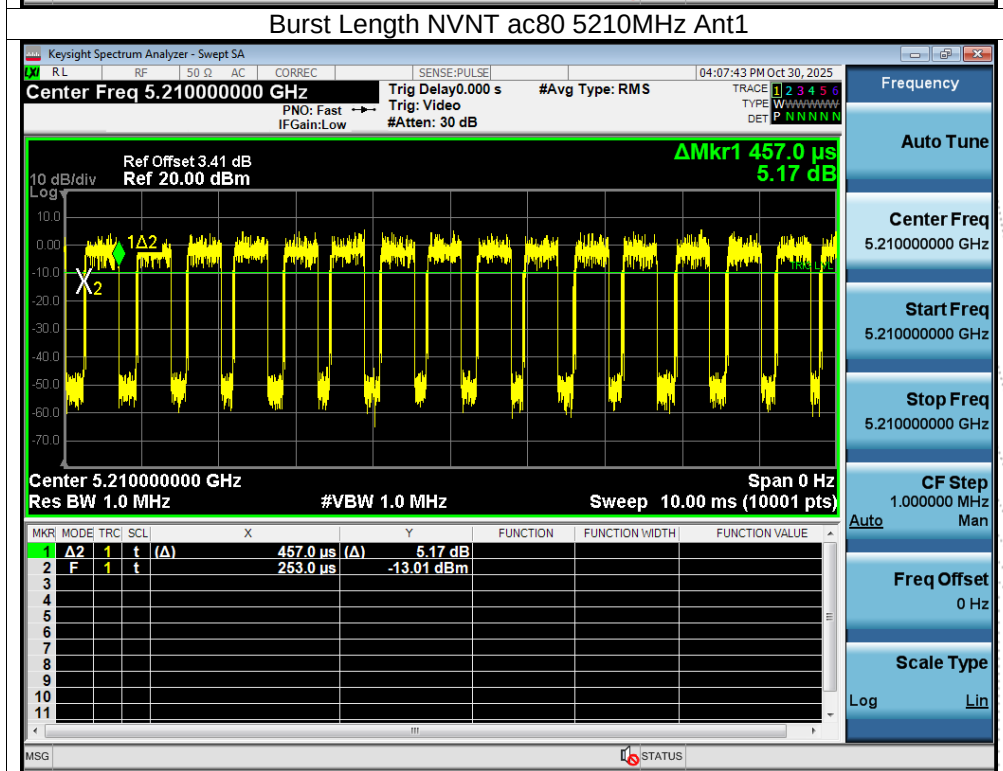
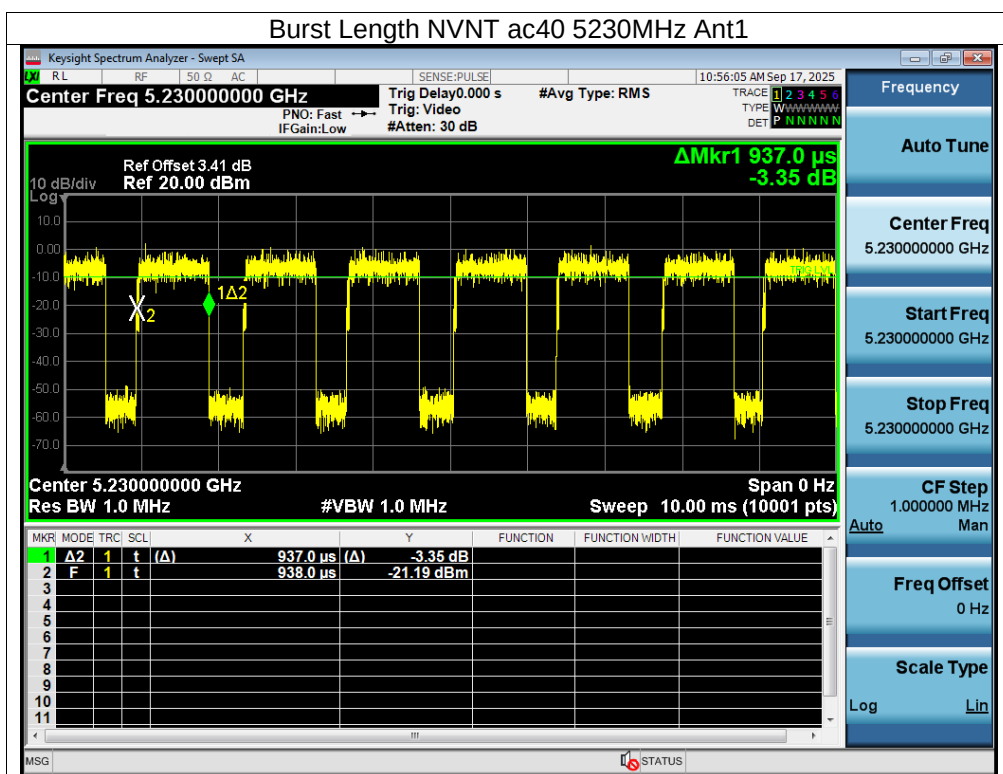


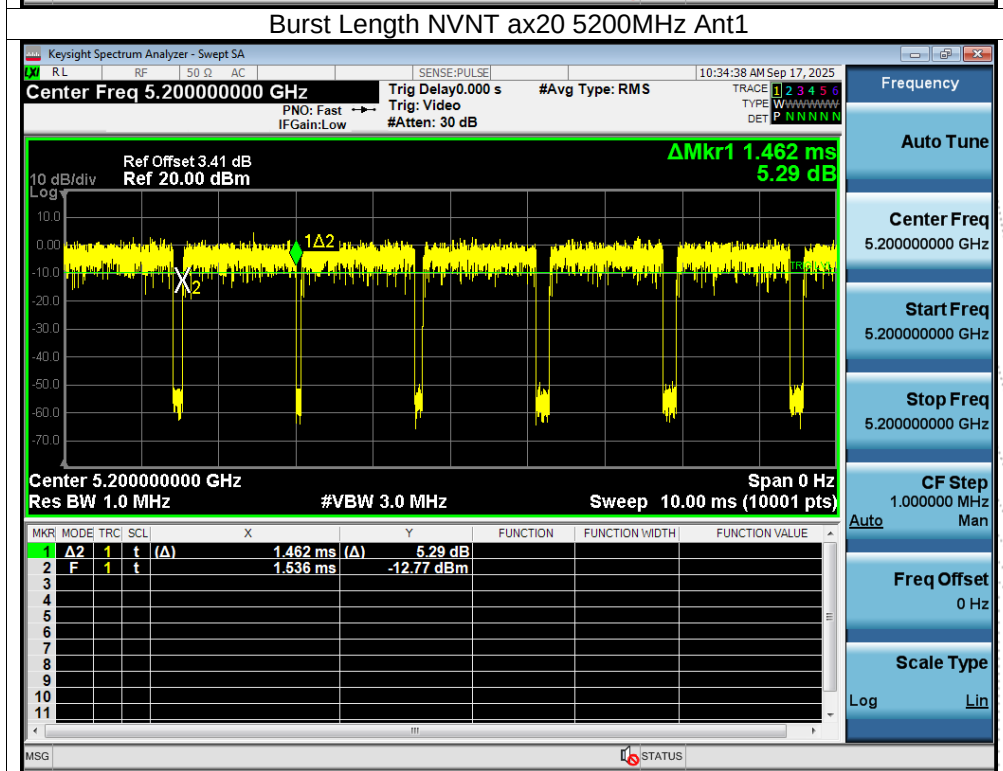
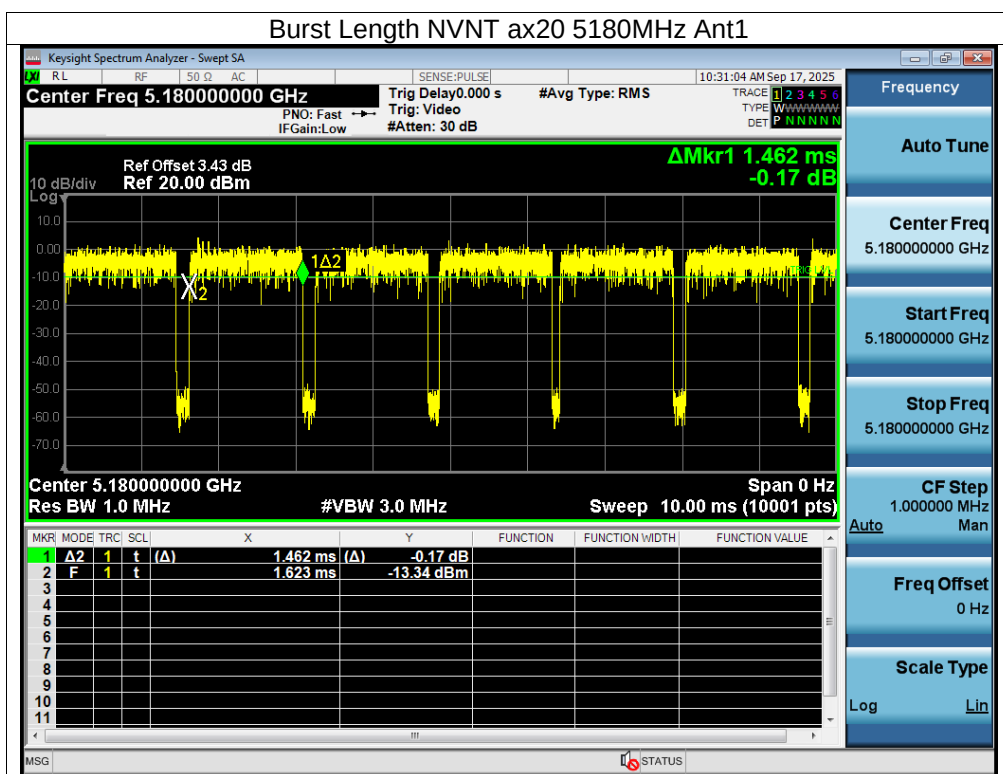


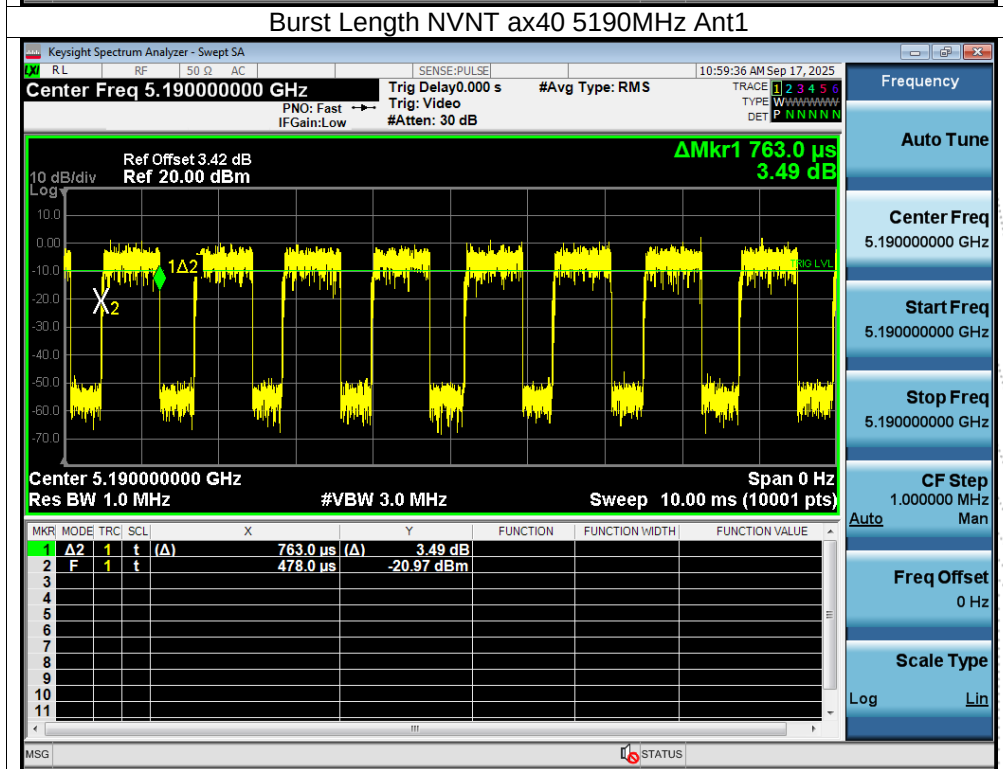
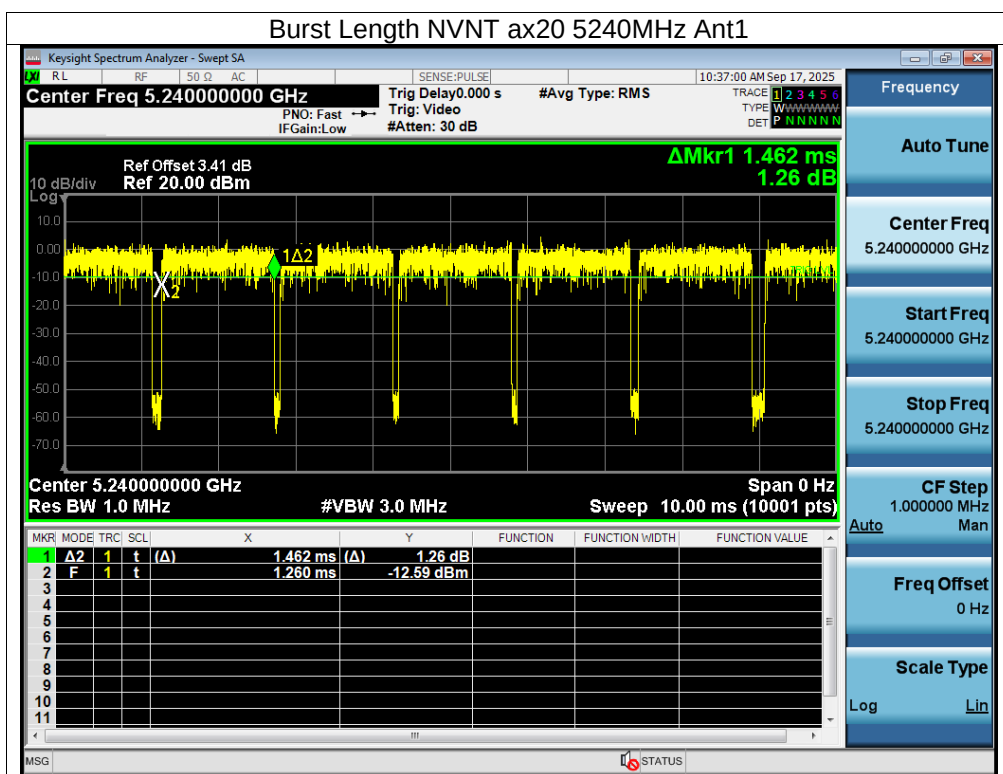


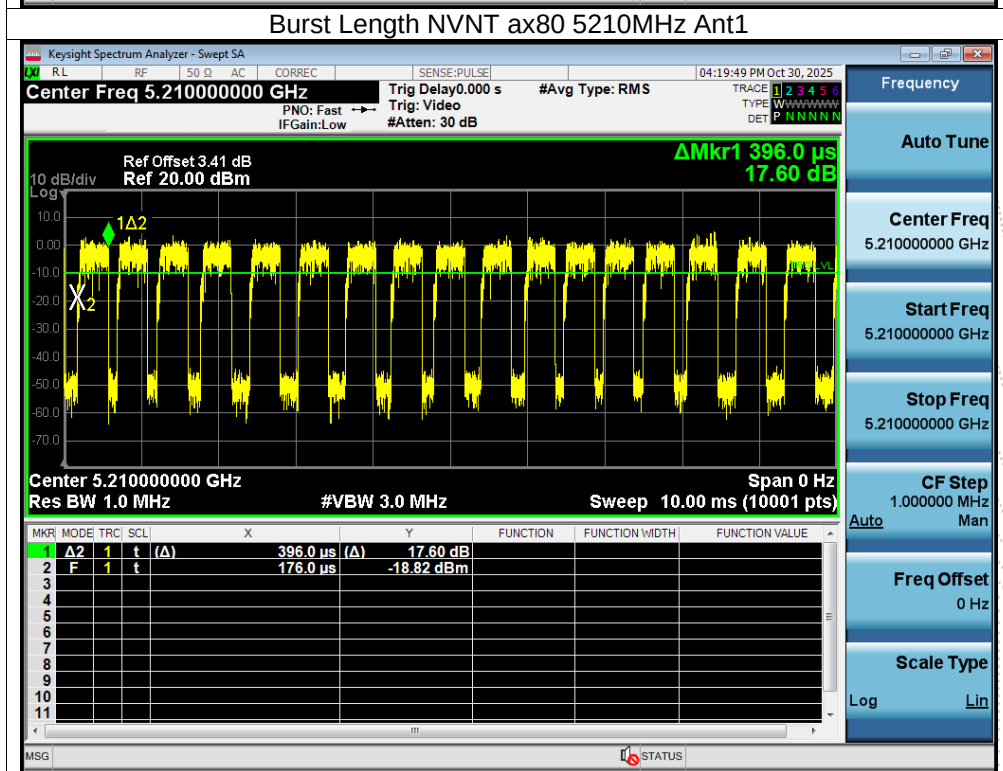
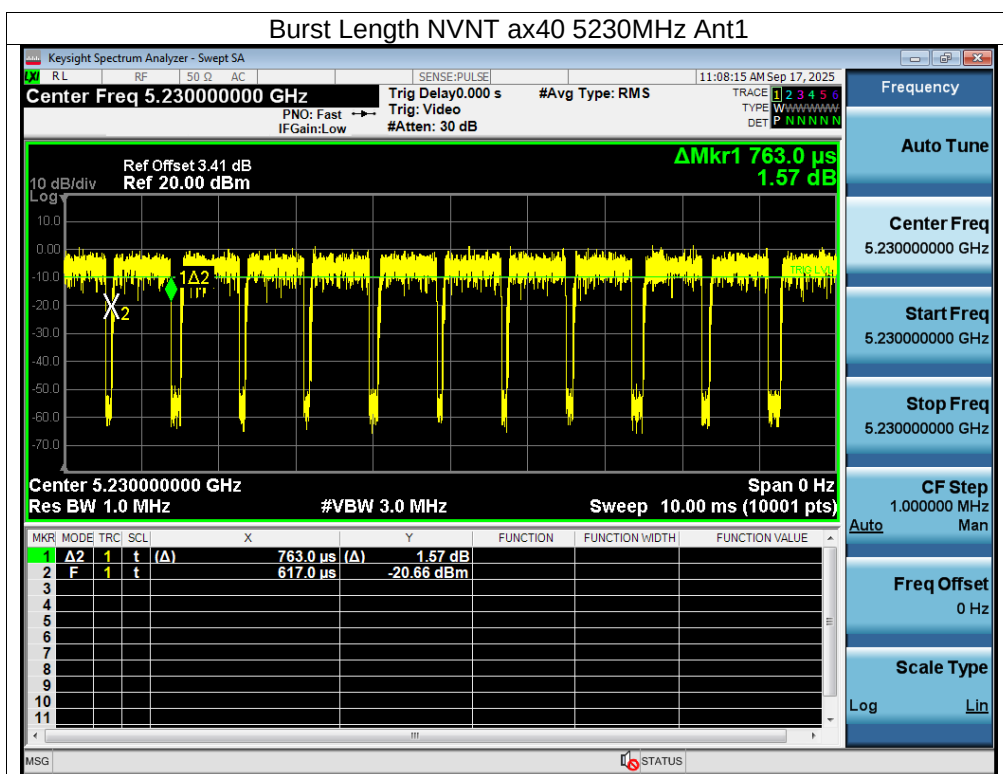




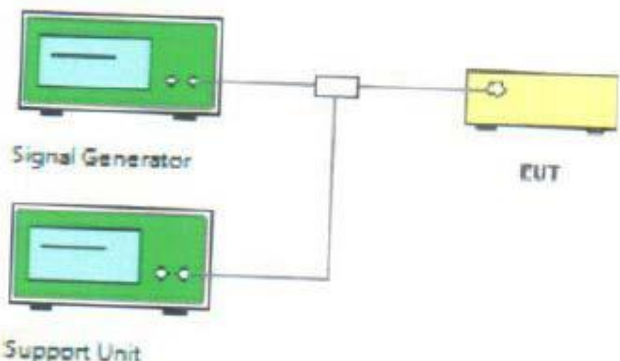








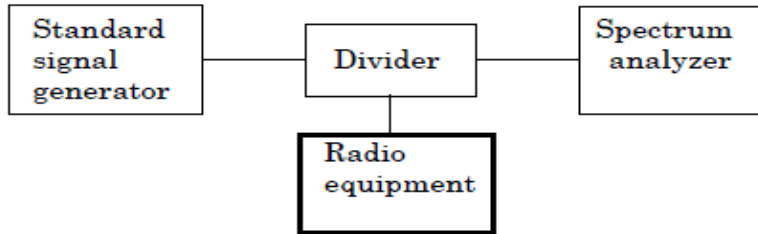
13. Interference Prevention Function Measurement

Test condition:	Test diffusion code and modulate with standard coding test signal
Test setup:	
Test Procedures:	1. The EUT continuous connected with support unit. 2. Signal generator transmitted interference signal to the EUT. 3. Check the EUT must be automatic cessation of transmitting
Test Instruments:	Refer to section 5.2 for details
Test results:	Pass Transmitter: The transmitting mode (the identification code is more than 48 bits) of EUT is on normal operating, the interference prevention function is good. Receiver: The transmitting mode of EUT is on normal operating, the interference prevention function is good.
Mac address:	54:90:f3:bb:aa:9b

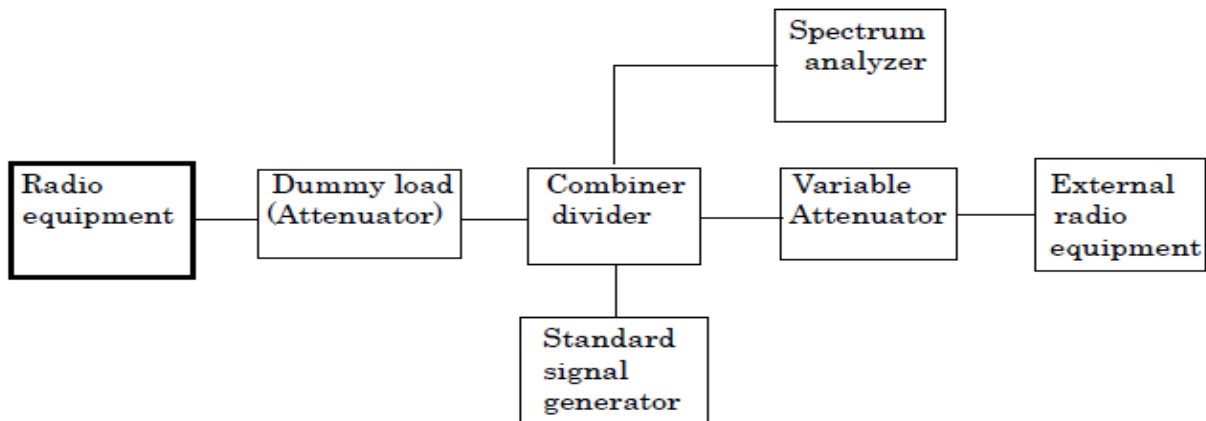
14. Carrier Sense Capability Measurement

14.1 Block Diagram Of Test Setup

(1) Test performed with the radio equipment to be tested only



(2) Test performed using the external radio equipment



14.2 Limit

EUT stop RF transmission signal after carrier inject to EUT.

14.3 Test Procedure

(1) Test performed with the radio equipment to be tested only

- Set the standard signal generator in non-transmission condition and the radio equipment to be tested in transmission condition, and confirm transmission of radiowave by means of the spectrum analyzer.
- Set the radio equipment to be tested in receiving condition.
- Set the standard signal generator in transmission condition and the radio equipment to be tested in transmission condition, and confirm non-transmission of radiowave by means of the spectrum analyzer.

(2) Test performed using the external radio equipment

- Set the standard signal generator in non-transmission condition.
 - Connect the radio equipment to be tested with the external equipment by means of the line and confirm transmission of radiowave of test frequency by means of the spectrum analyzer.
 - Set the radio equipment to be tested in receiving condition.
 - Set the standard signal generator in transmission condition and the radio equipment to be tested in transmission condition, and confirm non-transmission of radiowave by means of the spectrum analyzer.
- Note: SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is $(on\ 22.79 + G - 20 \cdot \log(f) \text{ dBm})$ (G is the antenna gain, f is the test frequency).

14.5 Test Result

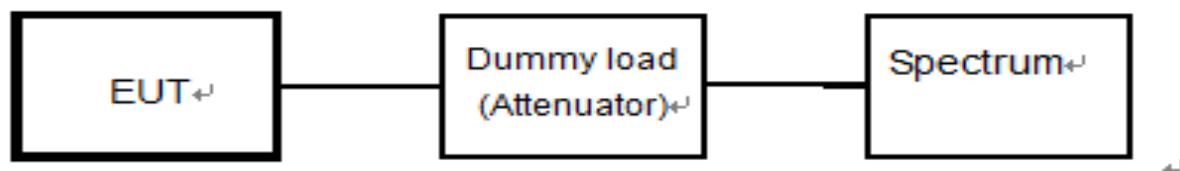
(1) RESULT

Mode	Channel	Result		
		Normal Voltage	High Voltage	Low Voltage
802.11a	CH36	Pass	Pass	Pass
	CH40	Pass	Pass	Pass
	CH48	Pass	Pass	Pass
802.11n20	CH36	Pass	Pass	Pass
	CH40	Pass	Pass	Pass
	CH48	Pass	Pass	Pass
802.11n40	CH38	Pass	Pass	Pass
	CH46	Pass	Pass	Pass
802.11ac20	CH36	Pass	Pass	Pass
	CH40	Pass	Pass	Pass
	CH48	Pass	Pass	Pass
802.11ac40	CH38	Pass	Pass	Pass
	CH46	Pass	Pass	Pass
802.11ac80	CH42	Pass	Pass	Pass
802.11ax20	CH36	Pass	Pass	Pass
	CH40	Pass	Pass	Pass
	CH48	Pass	Pass	Pass
802.11ax40	CH38	Pass	Pass	Pass
	CH46	Pass	Pass	Pass
802.11ax80	CH42	Pass	Pass	Pass

Result: OK

15. Adjacent Channel Emitted Power Measurement

15.1 Block Diagram Of Test Setup



15.2 Limit

802.11a	802.11n20/ac20/ax20
Fc ± 20MHz ±10MHz BW : -25dBc Fc ± 40MHz ±10MHz BW : -40dBc	Fc ± 20MHz ±10MHz BW : -25dBc Fc ± 40MHz ±10MHz BW : -40dBc
802.11n40/ac40/ax40	802.11ac80/ax80
Fc ± 40MHz ±20MHz BW : -25dBc Fc ± 80MHz ±20MHz BW : -40dBc	Fc ± 80MHz ±40MHz BW : -20dBc

15.3 Measuring Instruments And Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

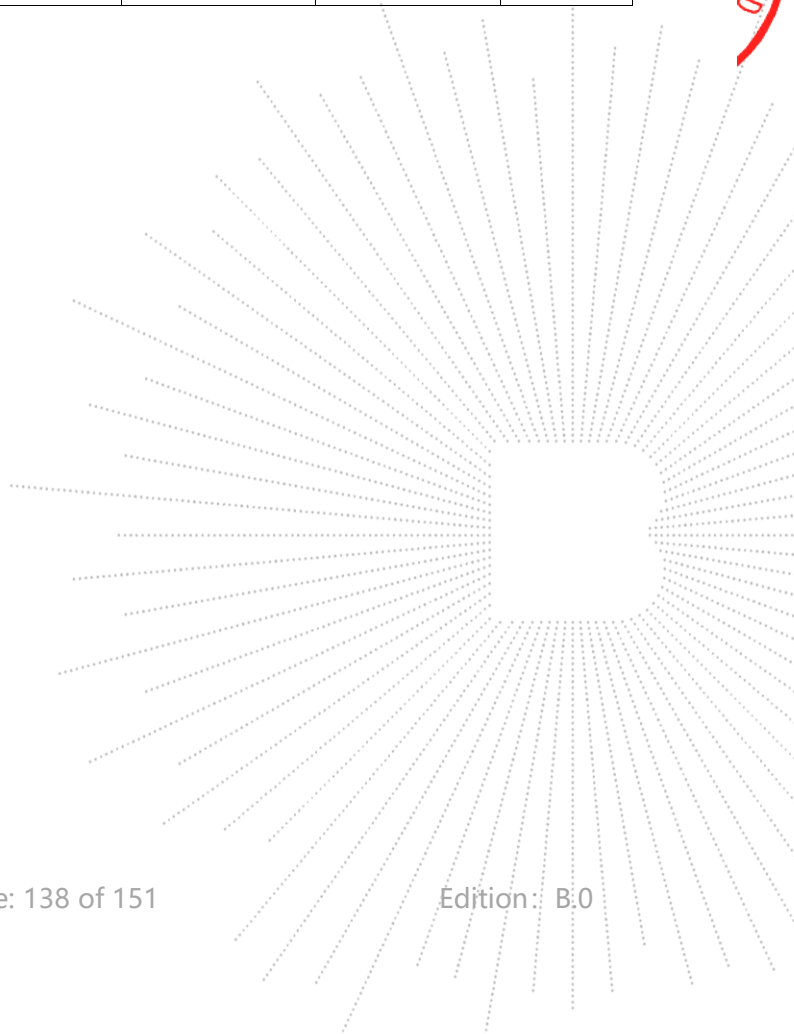
Spectrum Parameter	Setting
Center frequency	Frequency indicated in the test procedure
Sweep frequency width	120MHz(20MHz system); 240MHz(40MHz system); 480MHz(80MHz system);
Resoluble bandwidth	300kHz
Video bandwidth	300kHz
Y-axis scale	10dB/Div.
Input level	Value to be maximum dynamic range
Data points	More than 400 points
Sweep mode	Continuous sweep
Detection mode	Sample (Positive peak in case of burst wave)

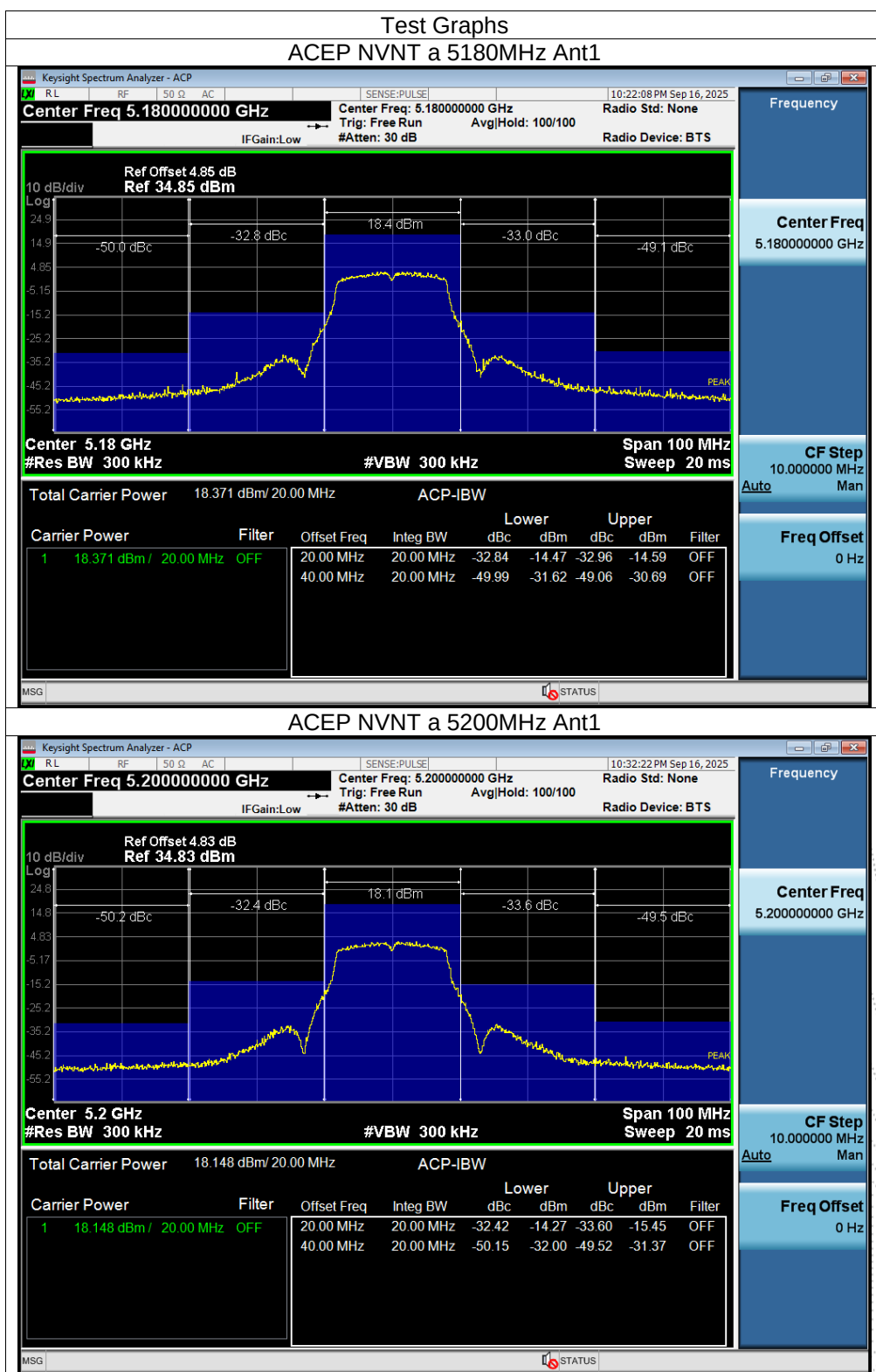
15.4 Test Result

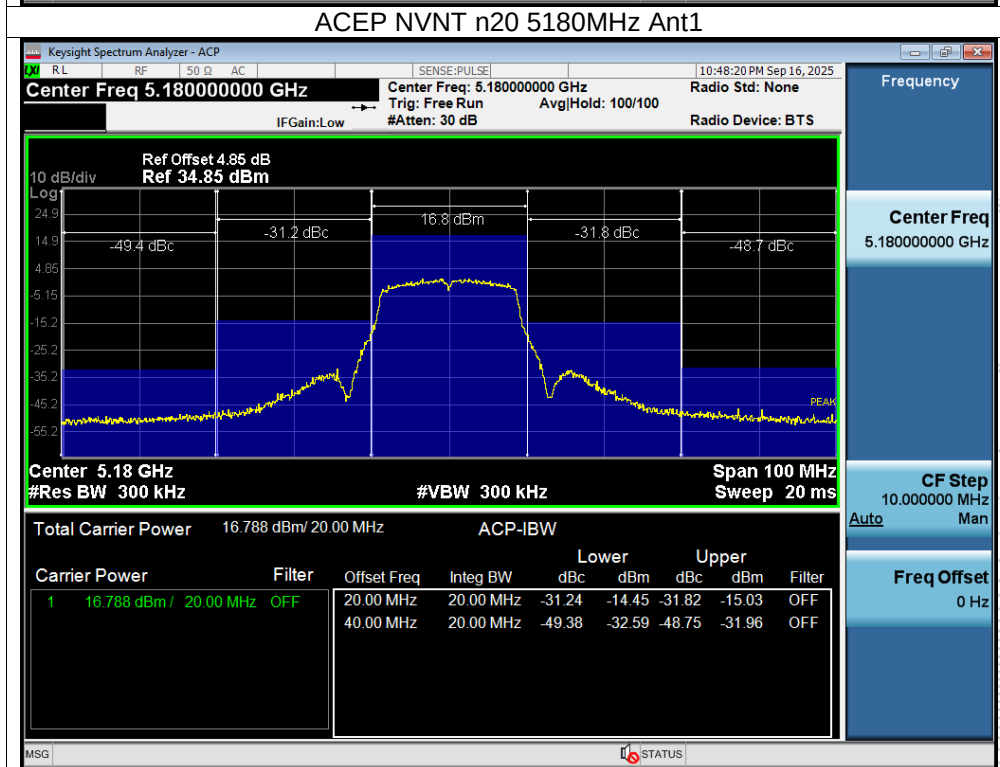
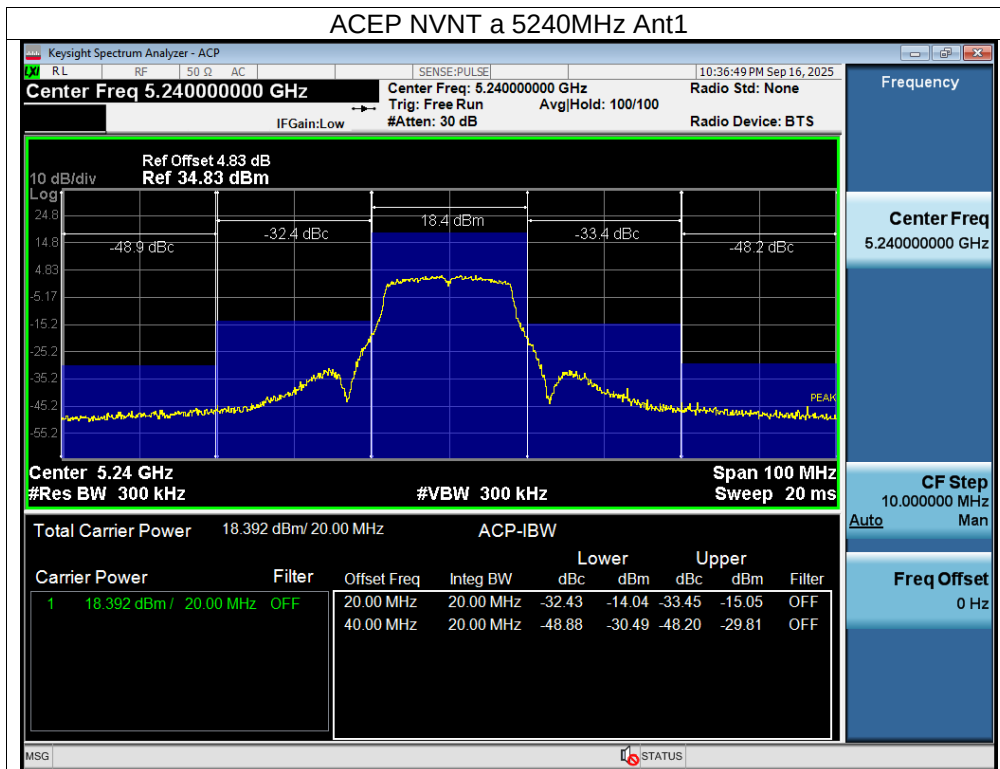
Temperature:	26°C		
Humidity:	54 % RH	Test Voltage	DC 3.8V

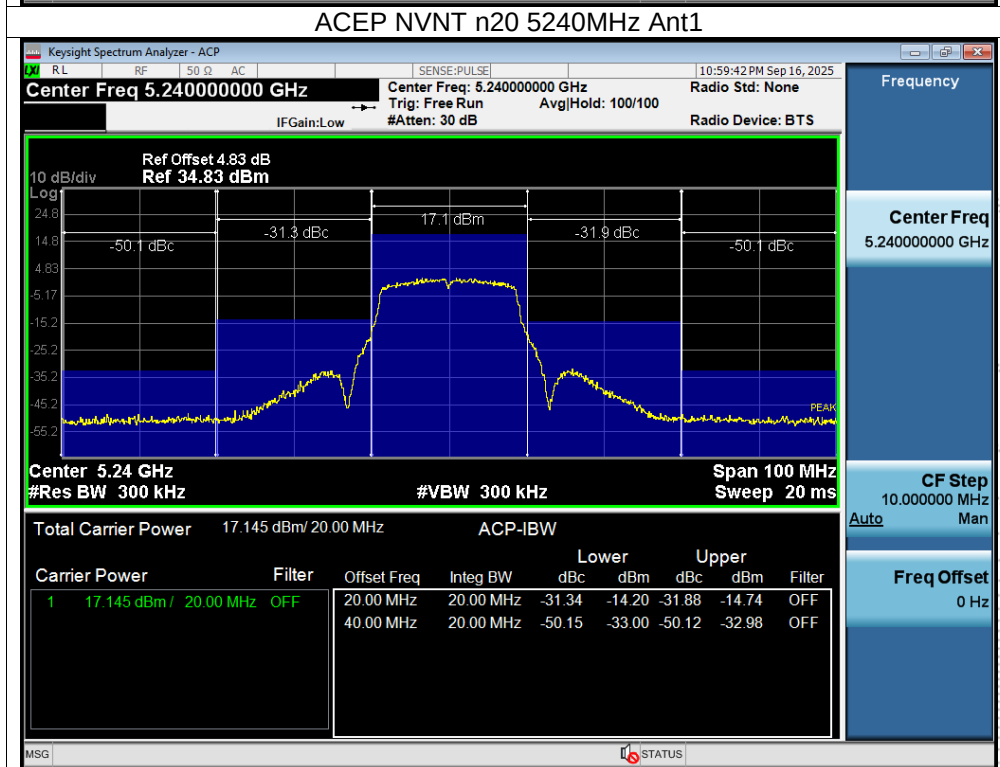
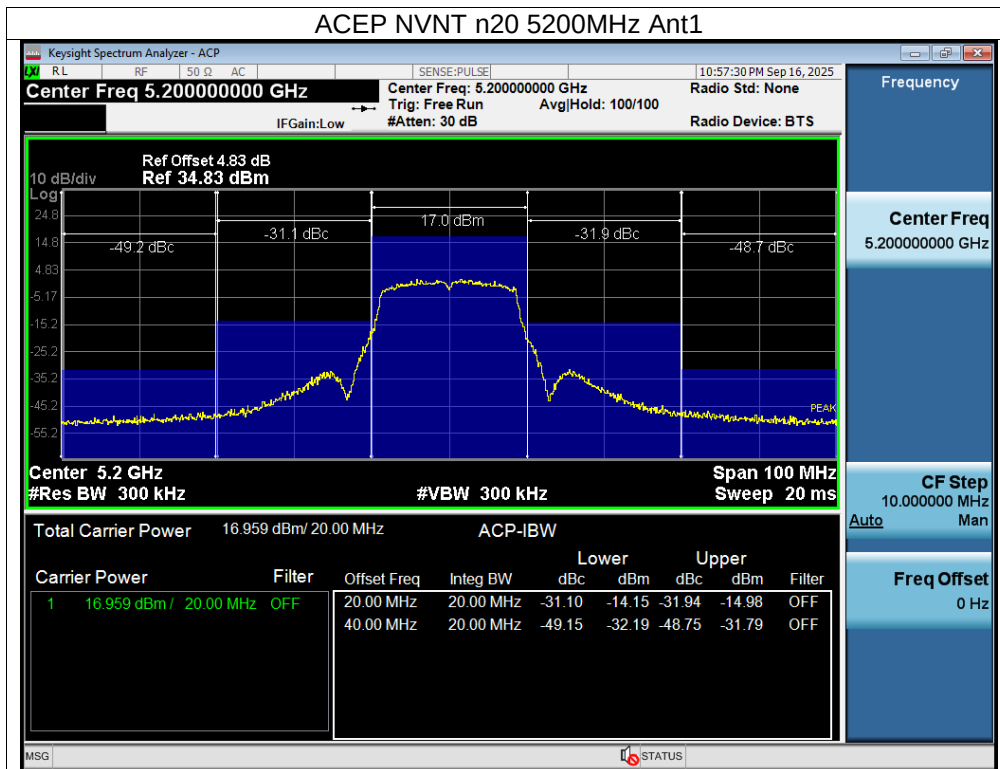
Condition	Mode	Frequency (MHz)	Offset (MHz)	Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	-20	-32.84	-25	Pass
NVNT	a	5180	-40	-49.99	-40	Pass
NVNT	a	5180	20	-32.96	-25	Pass
NVNT	a	5180	40	-49.06	-40	Pass
NVNT	a	5200	-20	-32.42	-25	Pass
NVNT	a	5200	-40	-50.15	-40	Pass
NVNT	a	5200	20	-33.6	-25	Pass
NVNT	a	5200	40	-49.52	-40	Pass
NVNT	a	5240	-20	-32.43	-25	Pass
NVNT	a	5240	-40	-48.88	-40	Pass
NVNT	a	5240	20	-33.45	-25	Pass
NVNT	a	5240	40	-48.2	-40	Pass
NVNT	n20	5180	-20	-31.24	-25	Pass
NVNT	n20	5180	-40	-49.38	-40	Pass
NVNT	n20	5180	20	-31.82	-25	Pass
NVNT	n20	5180	40	-48.75	-40	Pass
NVNT	n20	5200	-20	-31.1	-25	Pass
NVNT	n20	5200	-40	-49.15	-40	Pass
NVNT	n20	5200	20	-31.94	-25	Pass
NVNT	n20	5200	40	-48.75	-40	Pass
NVNT	n20	5240	-20	-31.34	-25	Pass
NVNT	n20	5240	-40	-50.15	-40	Pass
NVNT	n20	5240	20	-31.88	-25	Pass
NVNT	n20	5240	40	-50.12	-40	Pass
NVNT	n40	5190	-40	-37.1	-25	Pass
NVNT	n40	5190	-80	-48.93	-40	Pass
NVNT	n40	5190	40	-36.46	-25	Pass
NVNT	n40	5190	80	-49.25	-40	Pass
NVNT	n40	5230	-40	-36.23	-25	Pass
NVNT	n40	5230	-80	-49.09	-40	Pass
NVNT	n40	5230	40	-36.3	-25	Pass
NVNT	n40	5230	80	-48.98	-40	Pass
NVNT	ac20	5180	-20	-31.42	-25	Pass
NVNT	ac20	5180	-40	-49.36	-40	Pass
NVNT	ac20	5180	20	-31.54	-25	Pass
NVNT	ac20	5180	40	-48.57	-40	Pass
NVNT	ac20	5200	-20	-31.62	-25	Pass
NVNT	ac20	5200	-40	-50	-40	Pass
NVNT	ac20	5200	20	-32.09	-25	Pass
NVNT	ac20	5200	40	-49.28	-40	Pass
NVNT	ac20	5240	-20	-31.17	-25	Pass
NVNT	ac20	5240	-40	-49.53	-40	Pass
NVNT	ac20	5240	20	-31.93	-25	Pass
NVNT	ac20	5240	40	-49.1	-40	Pass
NVNT	ac40	5190	-40	-37.1	-25	Pass
NVNT	ac40	5190	-80	-49.03	-40	Pass
NVNT	ac40	5190	40	-36.02	-25	Pass
NVNT	ac40	5190	80	-49.53	-40	Pass
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NVNT	ac40	5230	-80	-49.16	-40	Pass

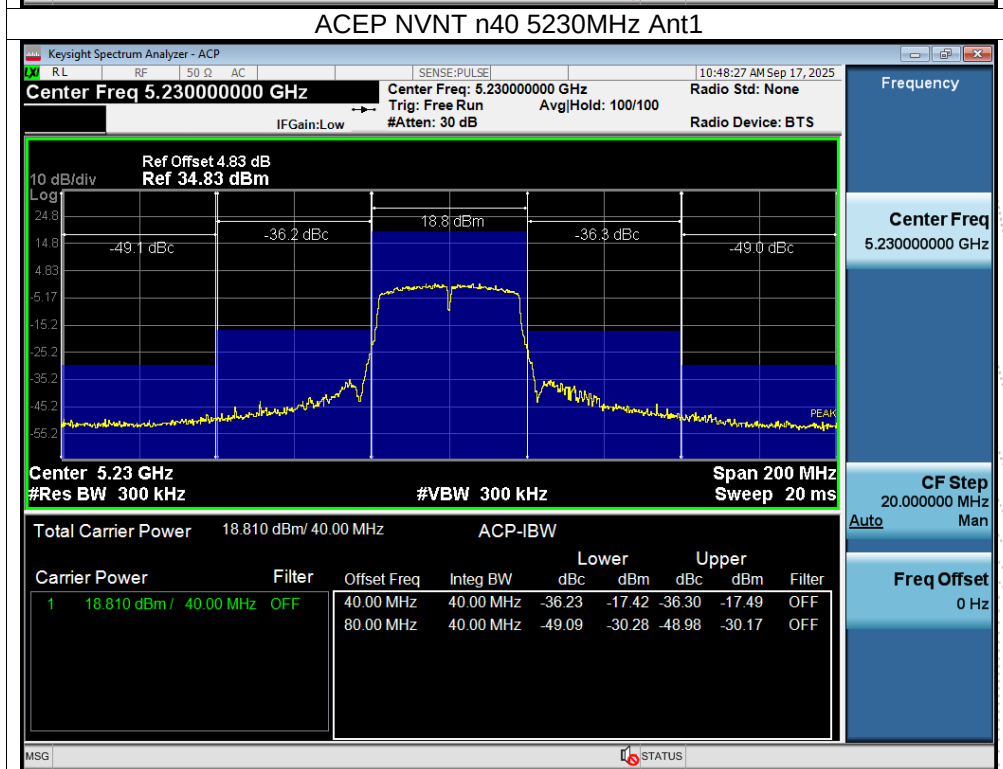
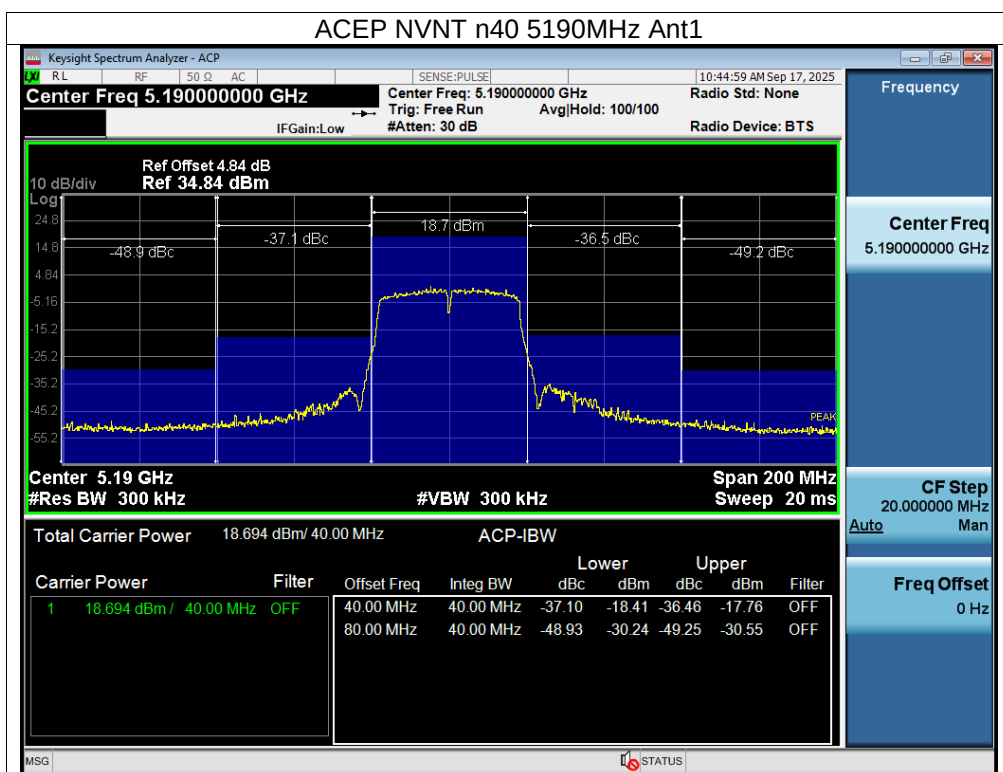
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NVNT	ac80	5210	-160	-48.91	-40	Pass
NVNT	ac80	5210	80	-33.03	-25	Pass
NVNT	ac80	5210	160	-49.41	-40	Pass
NVNT	ax20	5180	-20	-30.23	-25	Pass
NVNT	ax20	5180	-40	-47.61	-40	Pass
NVNT	ax20	5180	20	-29.89	-25	Pass
NVNT	ax20	5180	40	-47.21	-40	Pass
NVNT	ax20	5200	-20	-29.66	-25	Pass
NVNT	ax20	5200	-40	-48.18	-40	Pass
NVNT	ax20	5200	20	-29.6	-25	Pass
NVNT	ax20	5200	40	-47.81	-40	Pass
NVNT	ax20	5240	-20	-29.55	-25	Pass
NVNT	ax20	5240	-40	-47.82	-40	Pass
NVNT	ax20	5240	20	-30.51	-25	Pass
NVNT	ax20	5240	40	-47.52	-40	Pass
NVNT	ax40	5190	-40	-36.19	-25	Pass
NVNT	ax40	5190	-80	-47.36	-40	Pass
NVNT	ax40	5190	40	-36.37	-25	Pass
NVNT	ax40	5190	80	-48.17	-40	Pass
NVNT	ax40	5230	-40	-35.87	-25	Pass
NVNT	ax40	5230	-80	-47.72	-40	Pass
NVNT	ax40	5230	40	-36.56	-25	Pass
NVNT	ax40	5230	80	-48.29	-40	Pass
NVNT	ax80	5210	-80	-33.95	-25	Pass
NVNT	ax80	5210	-160	-45.72	-40	Pass
NVNT	ax80	5210	80	-32.87	-25	Pass
NVNT	ax80	5210	160	-46.15	-40	Pass

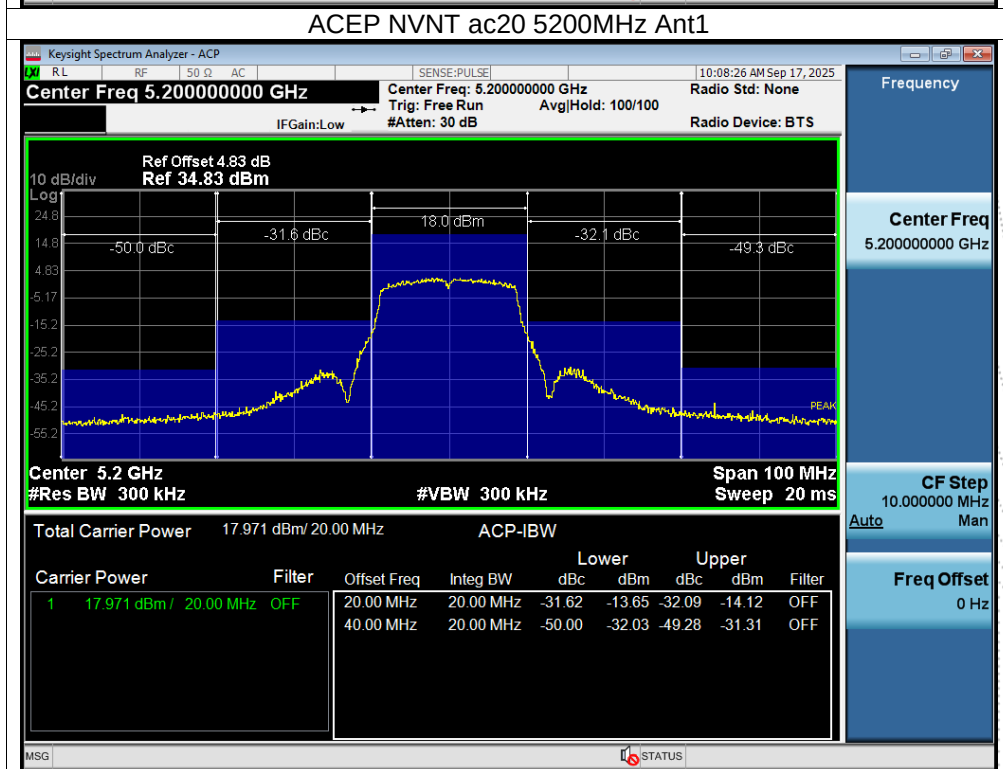
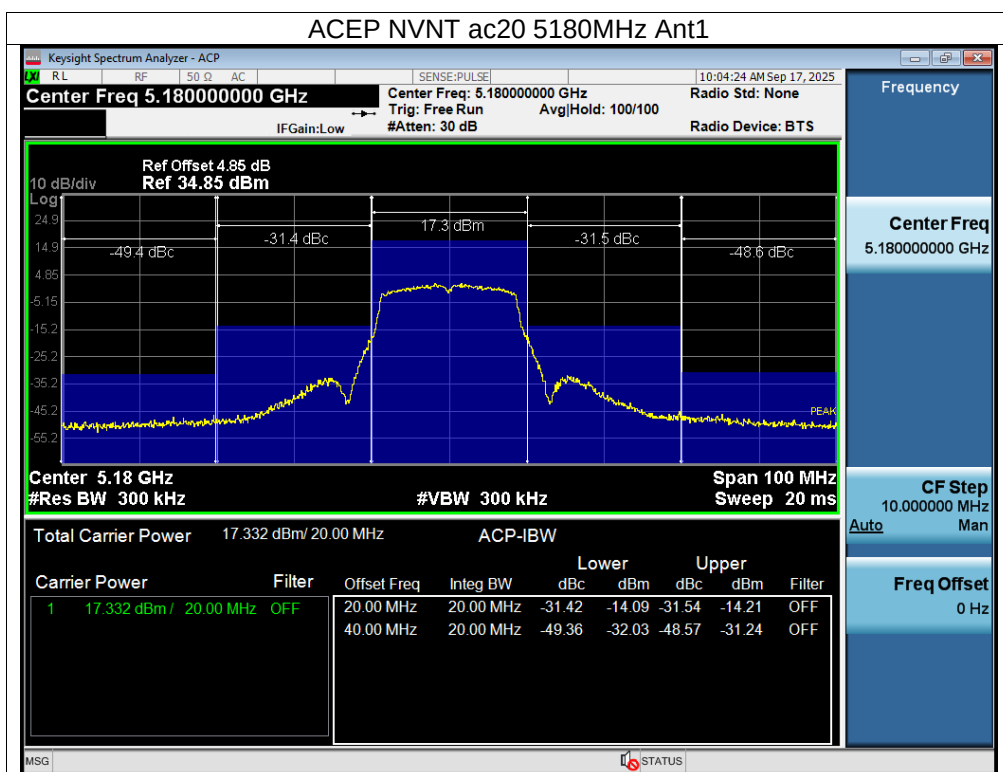


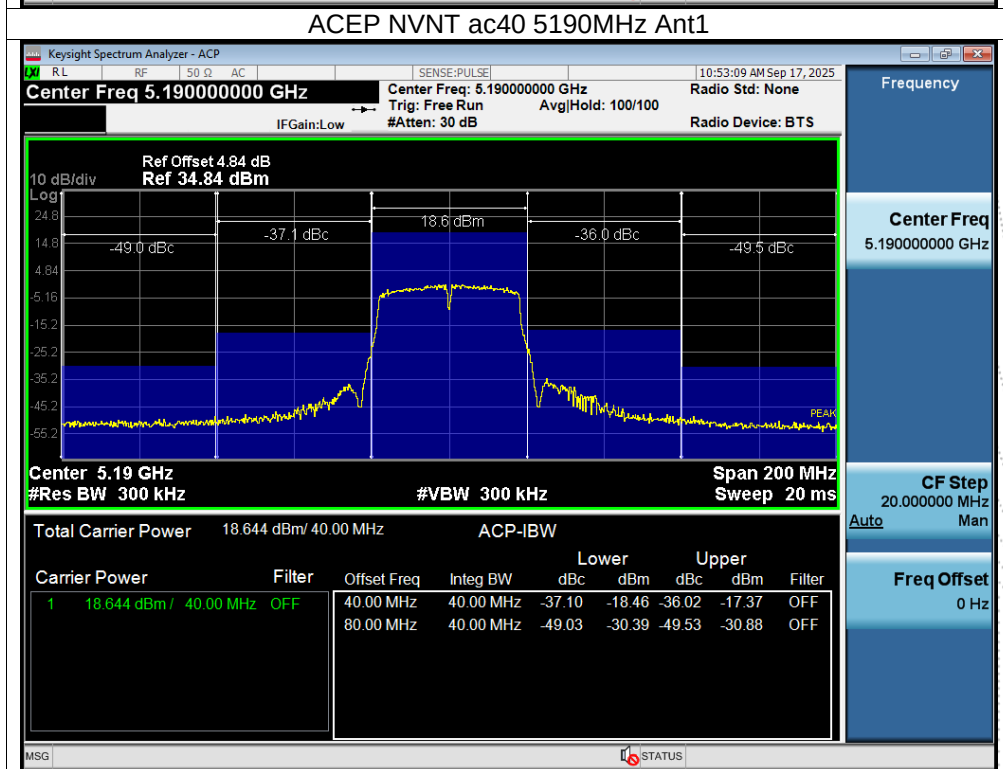
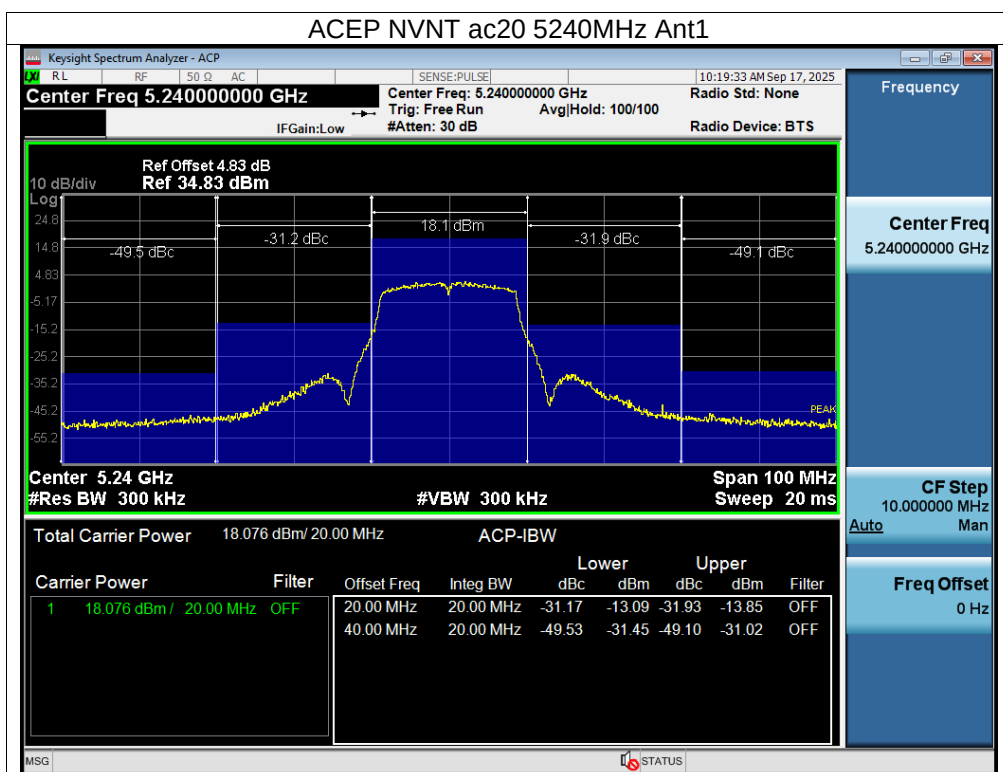


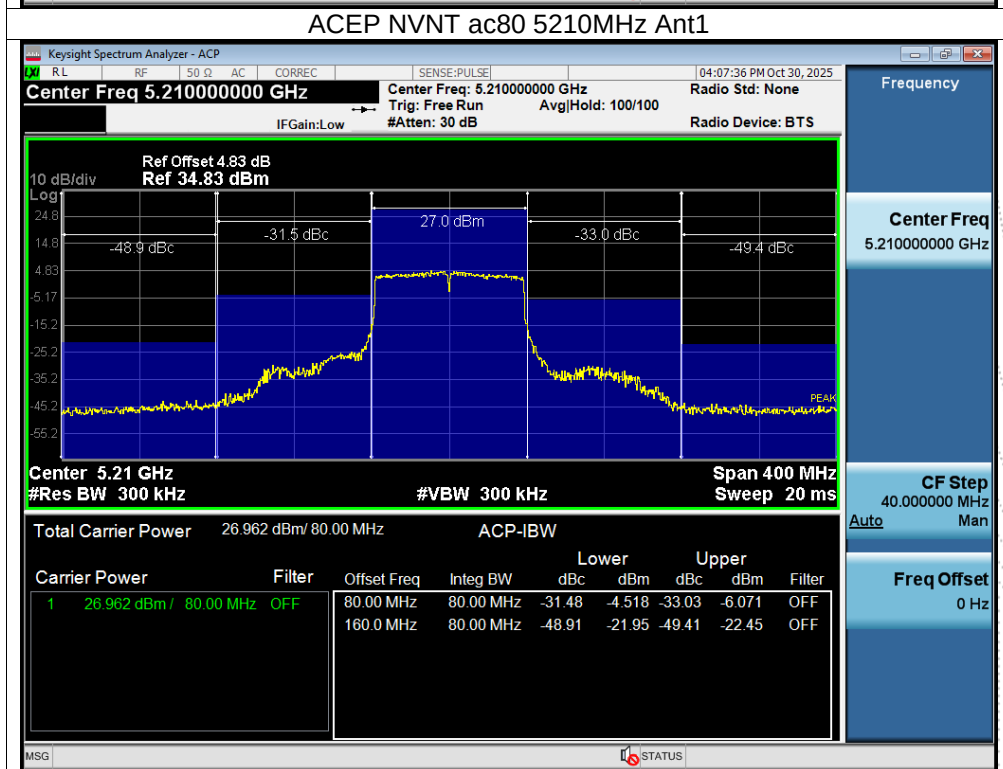
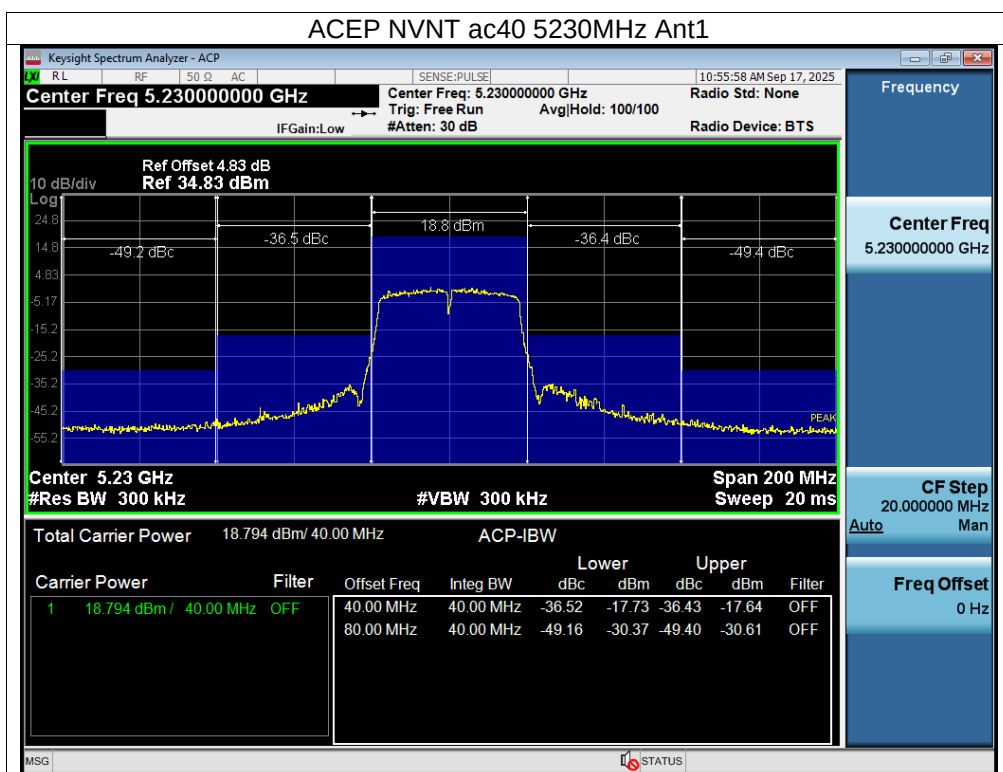


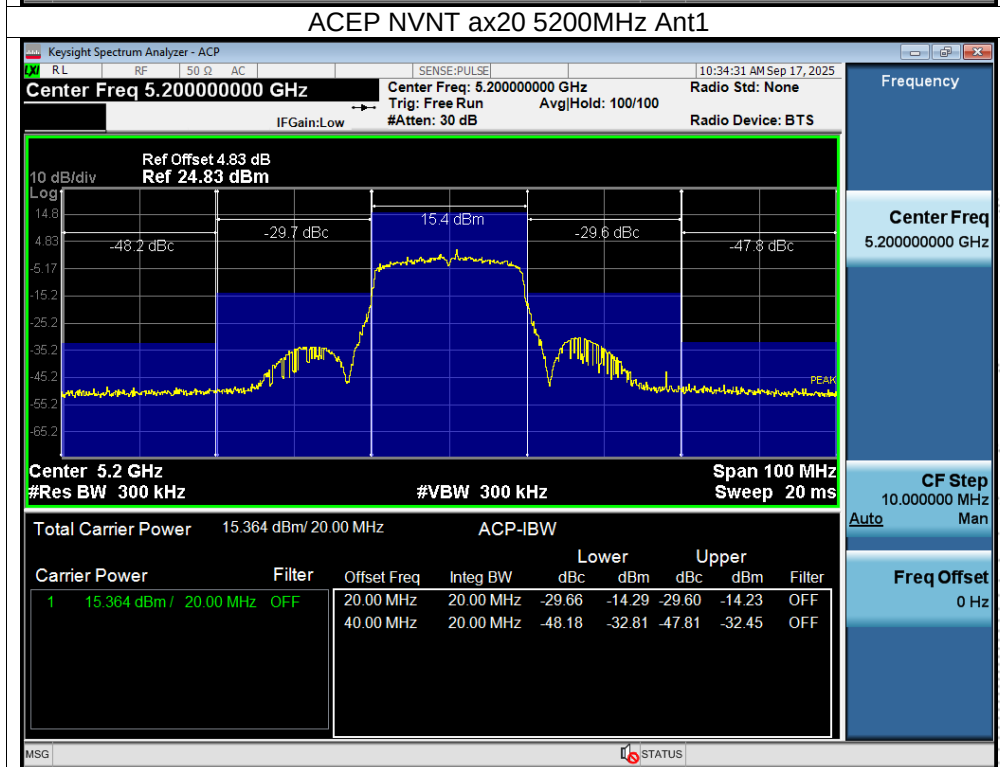
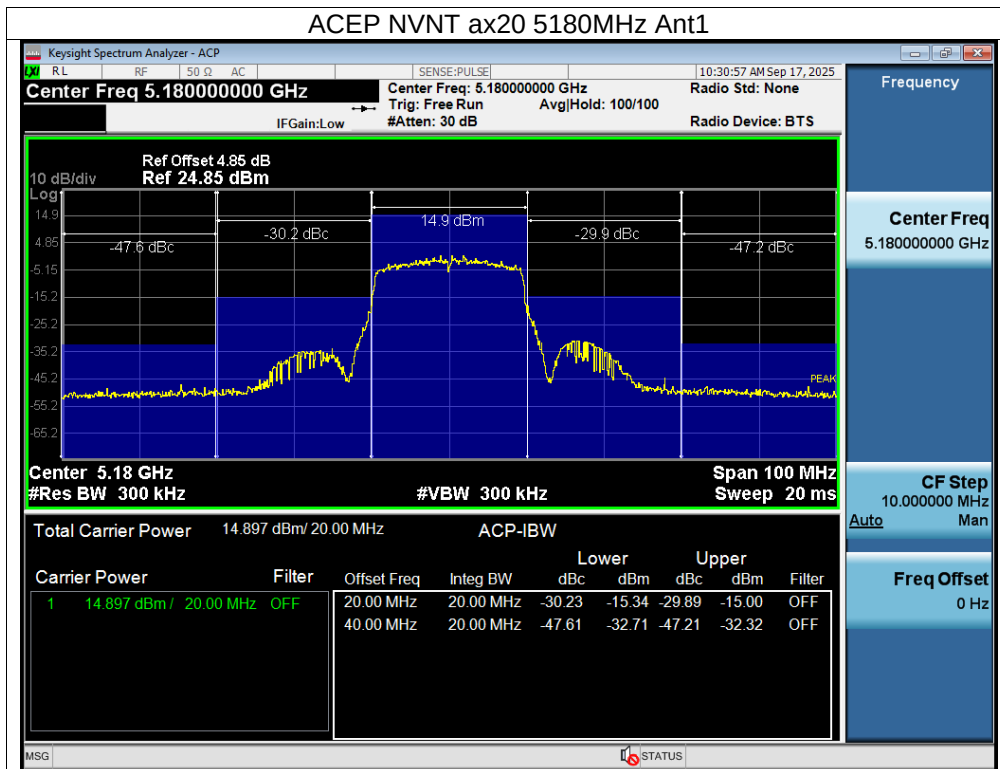


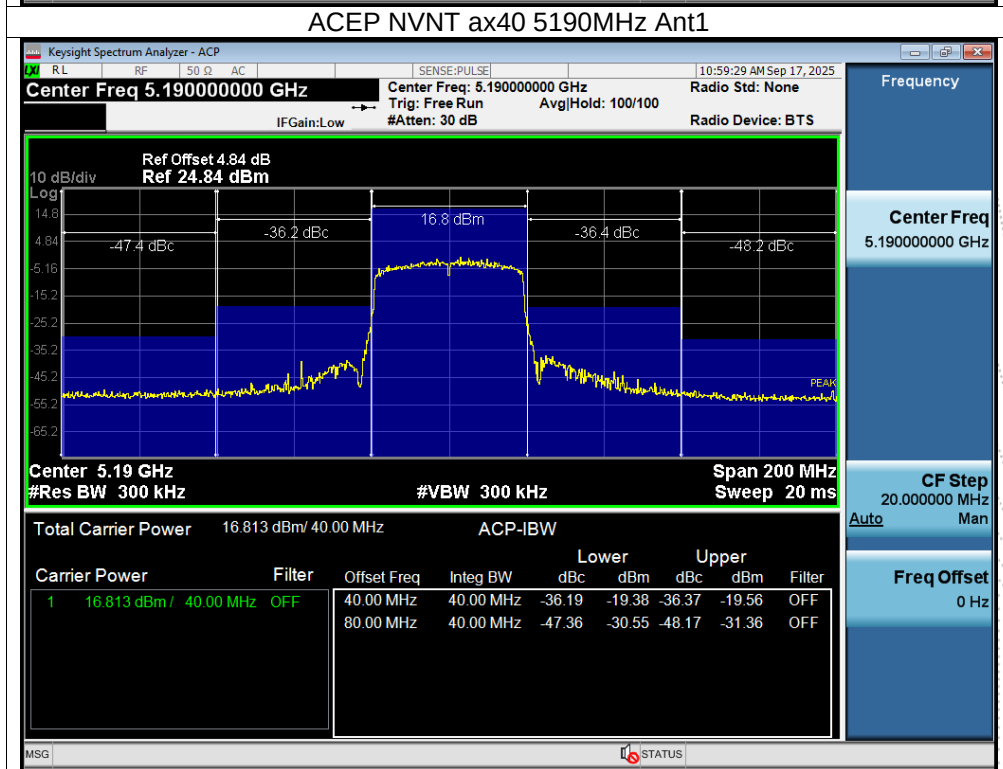
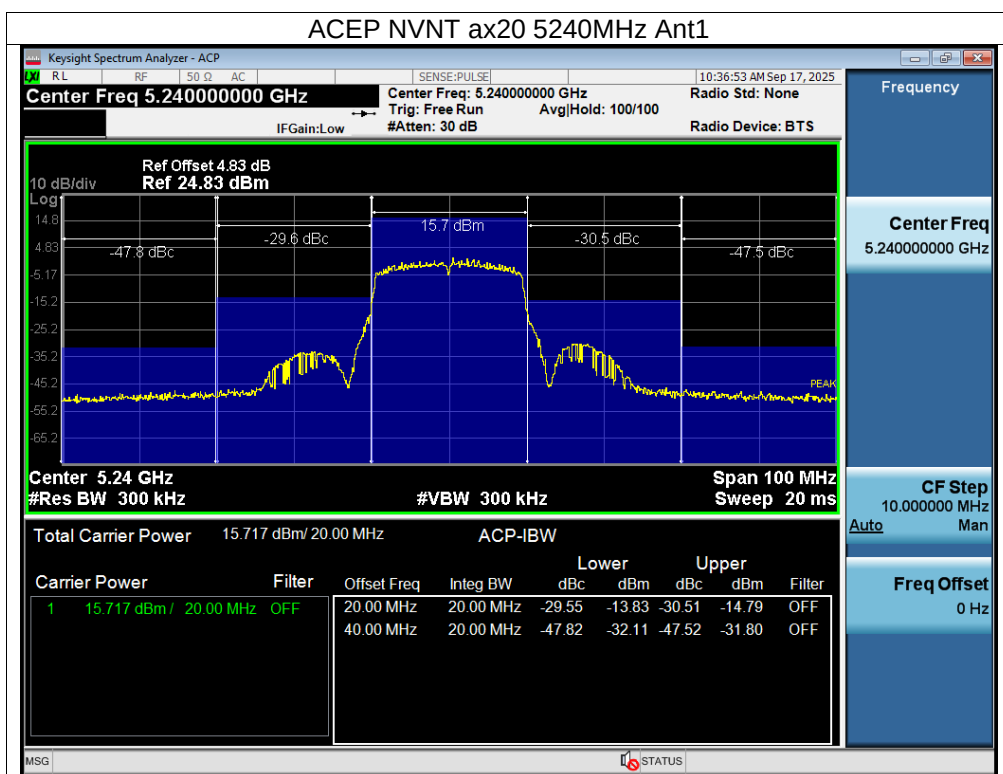


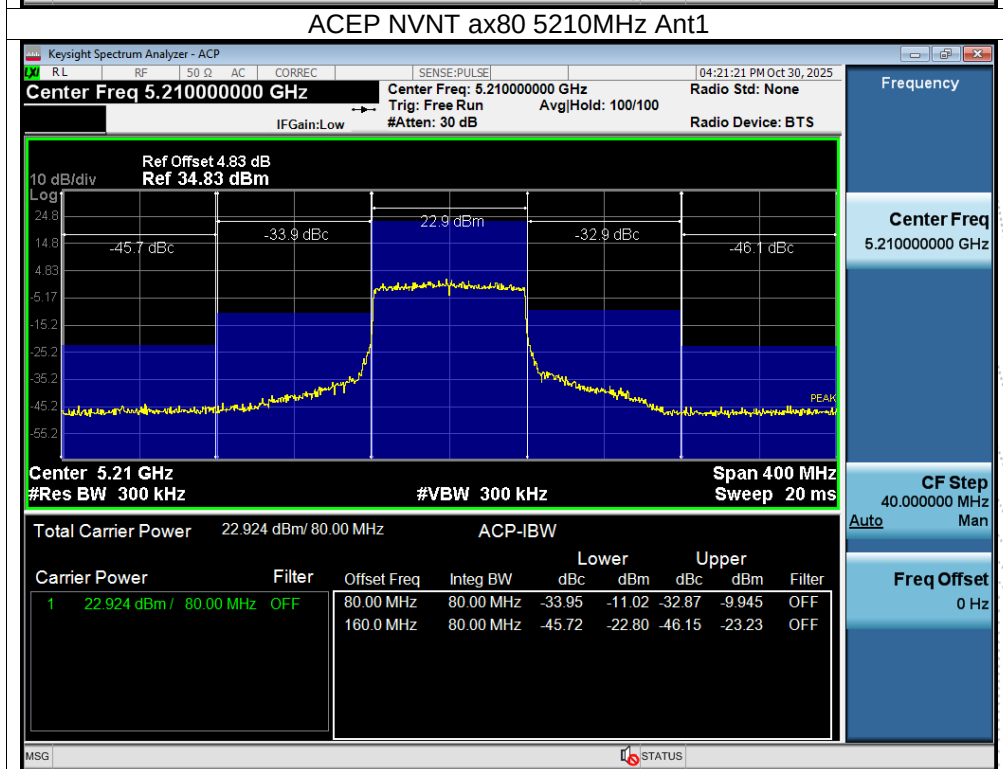
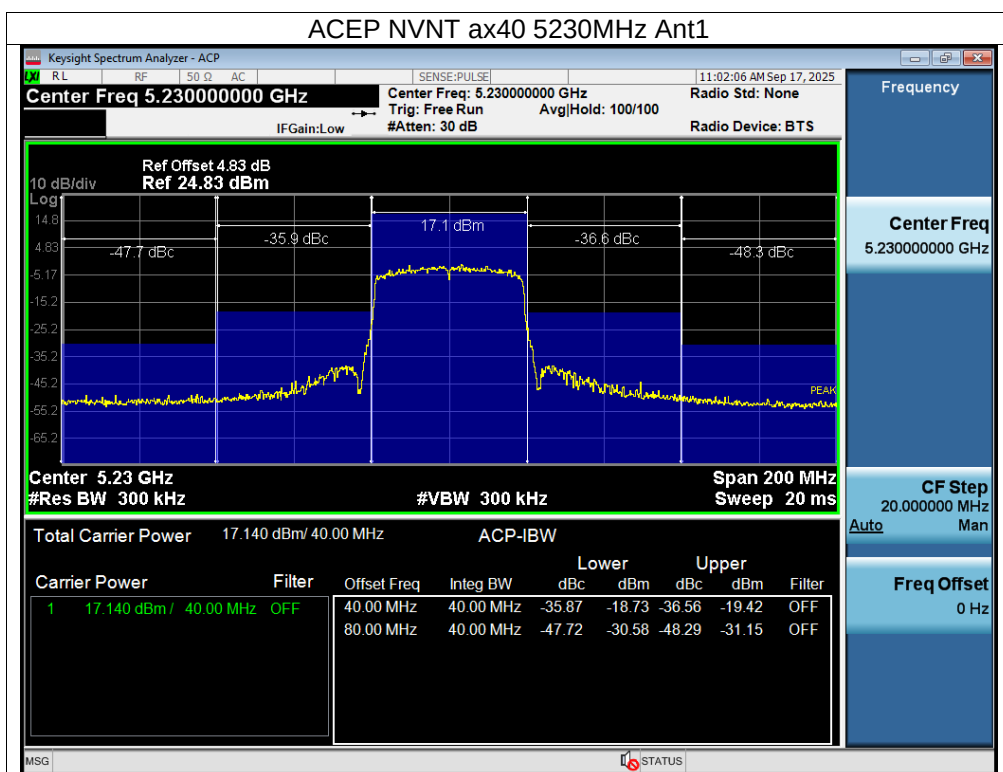






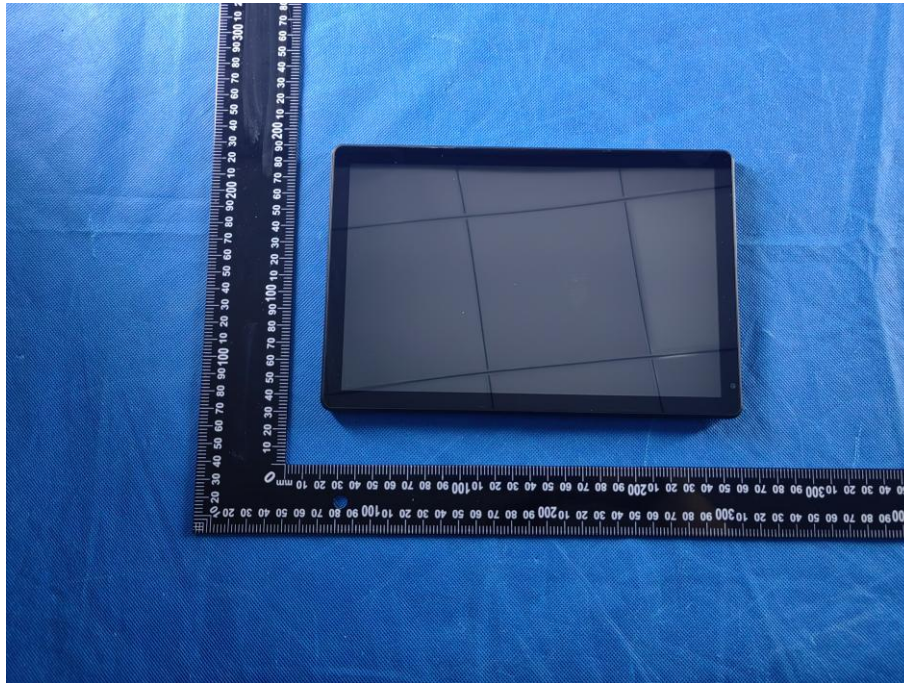






16. EUT Photographs

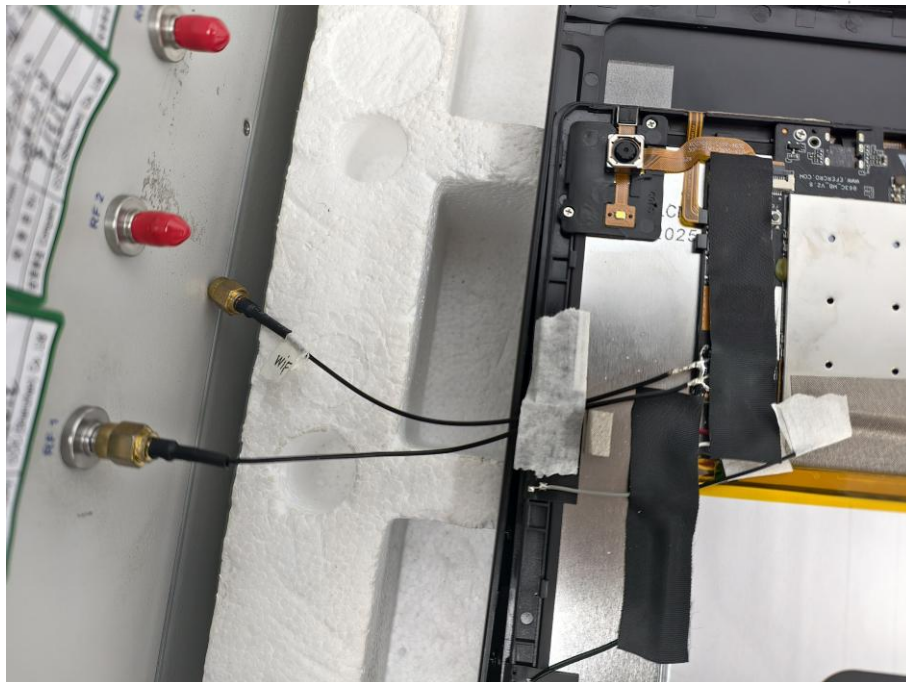
EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details.

17. EUT Test Setup Photographs

Measurement Photos



STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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***** END *****

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