

TEST REPORT

Product Name : Projector
Model Number : SW100
FCC ID : 2AQ3A-SW100

Prepared for : Shenzhen VanTop Technology & Innovation Co., Ltd.
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Lishan Road, Pingshan Community, Taoyuan Street,
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Report Number : ENS2606160339W00204R
Date(s) of Tests : June 16, 2026 to July 16, 2026
Date of issue : July 18, 2026

1 TEST RESULT CERTIFICATION

Applicant : Shenzhen VanTop Technology & Innovation Co., Ltd.
Address : 506, BLDG 4, Pingshan minQi Technology Park, No. 65 Lishan Road, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China
Manufacturer : Shenzhen VanTop Technology & Innovation Co., Ltd.
Address : 506, BLDG 4, Pingshan minQi Technology Park, No. 65 Lishan Road, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China
EUT : Projector
Model Name : SW100
Trademark : HP

Measurement Procedure Used:

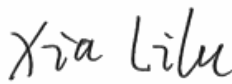
APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E	PASS
IC RSS-GEN, Issue 5(04-2018)+A1(03-2019)+A2(02-2021) IC RSS-247 Issue 4(07-2025)	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2, Part 15.407, IC RSS-247 Issue 4 and IC RSS-GEN, Issue 5.

The test results of this report relate only to the tested sample identified in this report.

Date of Test : June 16, 2026 to July 16, 2026

Prepared by : 
Yu Xiaolan/Editor

Reviewer : 
Xia lilu /Supervisor

Approve & Authorized Signer : 
Wang li /Manager



Modified History

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2606160339W00204R	/	Original Report



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2 EUT TECHNICAL DESCRIPTION

Characteristics	Description
Device style:	5G WIFI (Slave equipment without radar detection function)
Product:	Projector
Model Number:	SW100
Test Sample S/N:	ENS2606160339W002-01
Variant Number:	N/A
Wifi Type:	Wifi 5G with 5150MHz-5250MHz Band Wifi 5G with 5250MHz-5350MHz Band Wifi 5G with 5470MHz-5725MHz Band Wifi 5G with 5725MHz-5850MHz Band
WLAN Supported:	802.11a/n/ac/ax
Data Rate :	802.11a: 54/48/36/24/12/9/6Mbps 802.11n/ac/ax: MCS0-MCS11
Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac OFDMA with BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM for 802.11ax
Frequency Range:	UNII-1: 5150MHz-5250MHz Band 5180-5240MHz for 802.11a/n(HT20)/ac(VHT20)/ax(HE20) 5190-5230MHz for 802.11n(HT40) /ac(VHT40)/ax(HE40) UNII-2A: 5250MHz-5350MHz Band 5260-5320MHz for 802.11a/n(HT20) /ac(VHT20)/ax(HE20) 5270-5310MHz for 802.11n(HT40) /ac(VHT40)/ax(HE40) UNII-2C: 5470MHz-5725MHz Band 5500-5700MHz for 802.11a/n(HT20) /ac(VHT20)/ax(HE20) 5510-5670MHz for 802.11n(HT40) /ac(VHT40)/ax(HE40) UNII-3 with 5725MHz-5850MHz Band 5745-5825MHz for 802.11a/n(HT20) /ac(VHT20)/ax(HE20) 5755-5795MHz for 802.11n(HT40) /ac(VHT40)/ax(HE40)
TPC Function:	Not Applicable
Antenna Port:	☒ Antenna port 1 ☐ Antenna port 2
Antenna Type:	FPC Antenna
Antenna Gain:	5.31dBi (Note: The antenna information is provided by the customers, which will have a certain impact on the test results.)
Adapter:	AC ADAPTER HP Part No:L25296-011 MODEL:TPN-LA15 Replace With HP Spare:741727-001

	Lite-On Part No:PA-1450-20HP INPUT:100-240V~1.1A 50-60Hz OUTPUT:19.5V/2.31A 45.0W
Power supply:	DC 19.5V from adapter
Test Voltage:	AC 120V/60Hz
Temperature Range:	0° C ~ +35° C
Software Version:	V1.0.12
Hardware Version:	OD.P.JBV1.MT9266
Date of Received:	June 16, 2026
Date of Test:	June 16, 2026 to July 16, 2026
Note: 1.For more details, please refer to the User's manual of the EUT.	

3 SUMMARY OF TEST RESULT

FCC Part Clause	IC Part Clause	Test Parameter	Verdict	Remark
15.407 (a) 15.407 (e) 2.1049	RSS-247 clause 7.3.4.2 RSS-Gen 6.7	99% , 6dB and 26dB Bandwidth	PASS	
15.407 (a)	RSS-247 clause 7.3.2.2 RSS-247 clause 7.3.3.2 RSS-247 clause 7.3.4.3	Maximum Conducted Output Power	PASS	
15.407 (a)	RSS-247 clause 7.3.1.2 RSS-247 clause 7.3.2.2 RSS-247 clause 7.3.3.2 RSS-247 clause 7.3.4.3	PeakPower Spectral Density	PASS	
15.407 (b) 15.209 15.205	RSS-247 clause 7.3.1.3 RSS-247 clause 7.3.2.3 RSS-247 clause 7.3.3.3 RSS-247 clause 7.3.4.4 RSS-Gen 8.9 RSS-Gen 8.10 RSS-Gen 6.13	RadiatedSpurious Emission	PASS	
15.207	RSS-Gen 8.8	Power Line Conducted Emission	PASS	
15.407(a) 15.203	RSS-Gen 6.8	Antenna Application	PASS	
NOTE1:N/A (Not Applicable) NOTE2:According to FCC OET KDB 789033, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.				

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for **FCC ID:2AQ3A-SW100** filing to comply with Section 15.407 of the FCC Part 15, Subpart C Rules.

4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

IC RSS-GEN, Issue 5(04-2018)+A1(03-2019)+A2(02-2021)

IC RSS-247 Issue 4(07-2025)

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 789033 D2 General UNII Test Procedures New Rules v02r01

4.2 MEASUREMENT EQUIPMENT USED

Conducted Emission Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESCI	101384	2026/5/9	1Year
AMN	Rohde & Schwarz	ENV216	101161	2026/5/10	1Year

For Spurious Emissions Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Pre-Amplifier	Bonn	BLMA 011001N	2213967A	2025/10/16	1Year
EMI Test Receiver	Rohde & Schwarz	ESR7	102551	2025/10/16	1Year
Bilog Antenna	Schwarzbeck	VULB 9163	141	2026/5/16	2Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1198	2025/5/13	2Year
Pre-Amplifier	Bonn	BLMA 0118-5G	2213967B-01	2025/10/16	1Year
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101290	2025/10/16	1Year
Horn antenna	Schwarzbeck	BBHA9170	9170-399	2025/5/13	2Year
Pre-Amplifier	Lunar EM	LNA10M1G-40	J101113112600 1	2026/5/8	1Year
Pre-Amplifier	Lunar EM	LNA10M1G-40	J101113112600 2	2026/5/8	1Year
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	2025/5/13	2Year
Coaxial Cable	TIMES	NmNm-7-C15702	N/A	2026/5/8	1Year
Coaxial Cable	TIMES	HF290-NMSM-6.5M	N/A	2026/5/8	1Year
Coaxial Cable	TIMES	LMR-240 N-N	N/A	2026/5/8	1Year

For other test items

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Wideband Radio Communication Tester	R&S	CMW500	171168	2025/9/9	1Year
Frequency Extender	R&S	CMW-Z800A	100430	2025/9/9	1Year
Spectrum Analyzer	R&S	FSV3044	101289	2025/12/16	1Year
Analog Signal Generator	R&S	SMB100A	183237	2025/9/9	1Year
Vector Signal Generator	R&S	SMM100A	101808	2025/9/9	1Year
RF Control Unit(Power Meter)	Tonscend	JS0806-2	22C8060567	2025/9/9	1Year
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	2026/5/8	1 Year

4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11a: 54 Mbps; 802.11n(HT20): MCS0; 802.11ac(VHT20): MCS0; 802.11n(HT40): MCS0; 802.11ac(VHT40): MCS0; 802.11ax(HE20): MCS0; 802.11ax(HE40): MCS0;) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

☒ Wifi 5G with U-NII - 1

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac(VHT20), 802.11ax(HE20)

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220		
40	5200	48	5240		

Frequency and Channel list for 802.11n (HT40), 802.11ac(VHT40), 802.11ax(HE40) :

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230		

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac(VHT20), 802.11ax(HE20) :

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	48	5240

Test Frequency and channel for 802.11n (HT40), 802.11ac(VHT40), 802.11ax(HE40) :

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	N/A	N/A	46	5230

☒ Wifi 5G with U-NII -2A

Frequency and Channel list 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax(HE20) :

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300		
56	5280	64	5320		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40), 802.11ax(HE40) :

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270				
62	5310				

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax(HE20) :

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	56	5280	64	5320

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40), 802.11ax(HE40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	N/A	N/A	62	5310

☒ Wifi 5G with U-NII -2C

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (HT20), 802.11ax(HE20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	132	5660
104	5520	120	5600	136	5680
108	5540	124	5620	140	5700
112	5560	128	5640		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40), 802.11ax(HE40) :

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	118	5590	134	5670
110	5550	126	5630		

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax(HE20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	140	5700

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40), 802.11ax(HE40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	110	5550	134	5670

☒ Wifi 5G with U-NII -3

Frequency and Channel list for 802.11a, 802.11n (HT20) , 802.11ac(VHT20), 802.11ax(HE20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825
153	5765	161	5805		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40), 802.11ax(HE40) ::

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795		

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac(VHT20), 802.11ax(HE20)::

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40), 802.11ax(HE40) ::

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	N/A	N/A	159	5795

Multi-antenna correlation:

☐	Transmit Signals are Correlated
	Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi
☐	All Transmit Signals are Completely Uncorrelated
	Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N_{ANT}]$ dBi

Directional gain = $10 \log [(10^{1.68/20} + 10^{1.86/20})^2/2]$ dBi= / dBi

5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at:

EMTEK (Shenzhen) Co., Ltd.

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab.

: **Accredited by CNAS**

The Certificate Registration Number is L2291

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)

Accredited by FCC

Designation Number: CN1204

Test Firm Registration Number: 882943

Accredited by A2LA

The Certificate Number is 4321.01

Accredited by Industry Canada

The Conformity Assessment Body Identifier is CN0008

Name of Firm : EMTEK (SHENZHEN) CO., LTD.

Site Location : Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

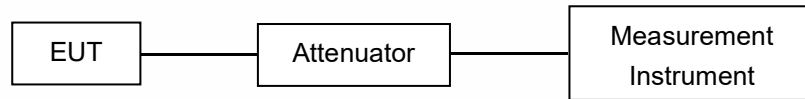
Test Parameter	Measurement Uncertainty
Frequency error	±1.9%
Occupied Bandwidth	±1.9KHz
Transmitter output power	±1.18dB
Conducted spurious emissions	±3.3dB
Radiated spurious emissions	±4.5dB
Temperature	±1.2°C
Humidity	±3%
DC voltages	±0.25V
Time	±1%

Measurement Uncertainty for a level of Confidence of 95%

7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

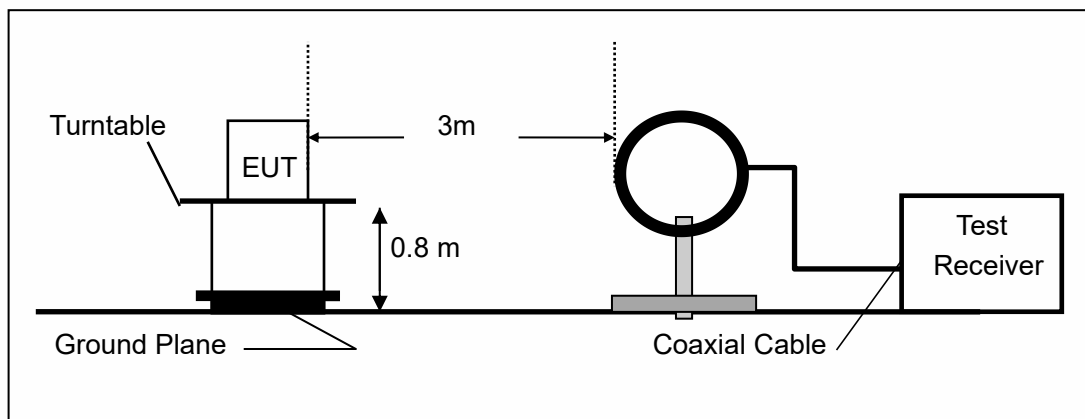
The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

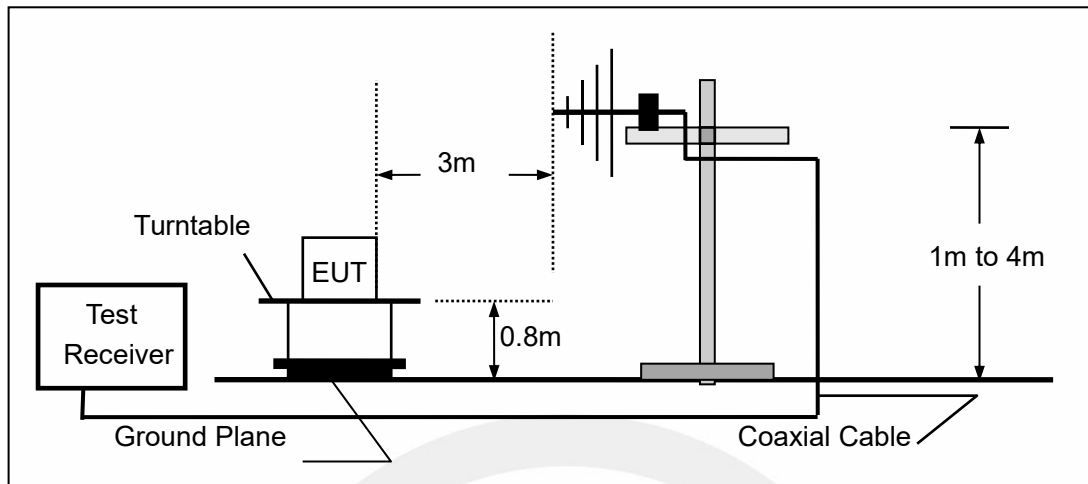
(Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.)

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

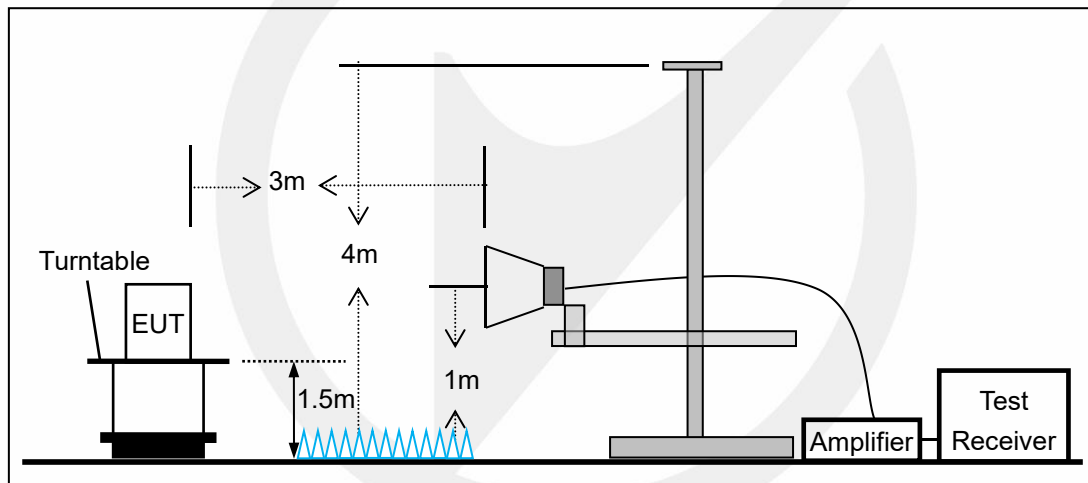
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

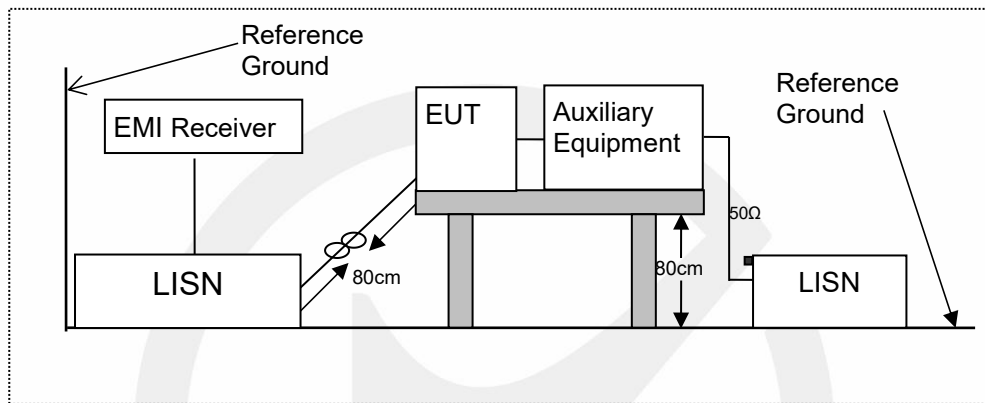


7.3 CONDUCTED EMISSION TEST SETUP

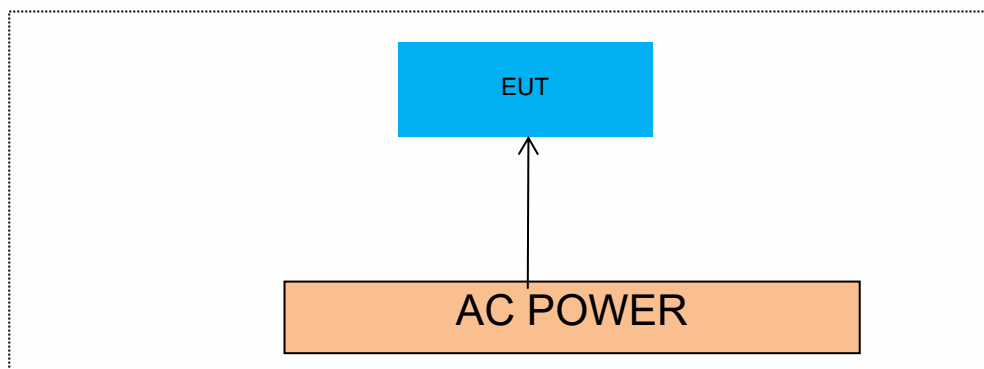
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



7.5 SUPPORT EQUIPMENT

EUT Cable List and Details

Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Cable List and Details

Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
/	/	/	/

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

8 TEST REQUIREMENTS

8.1 BANDWIDTH MEASUREMENT

8.1.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
 According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
 According to FCC Part 15.407(a)(3) for UNII Band III
 According to FCC Part 15.407(e) for UNII Band III
 According to 789033 D02 Section II(C)
 According to 789033 D02 Section II(D)
 According to RSS-Gen, RSS 247

8.1.2 Conformance Limit

The 26dB bandwidth is used to determine the conducted power limits.
 Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

8.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup

8.1.4 Test Procedure

According to 789033 D02 v02r01 section C&D, the following is the measurement procedure.

1. Emission Bandwidth (EBW)

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum 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%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- 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.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

D. 99 Percent Occupied Bandwidth

The 99-percent occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99-percent occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in section II.G.3.d). Measurements of 99-percent occupied bandwidth may also optionally be used in lieu of the EBW to 789033 D02 v01r02 General UNII Test Procedures New Rules v01 define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in section II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted

output power in accordance with 15.407(a).

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.



8.1.5 Test Results

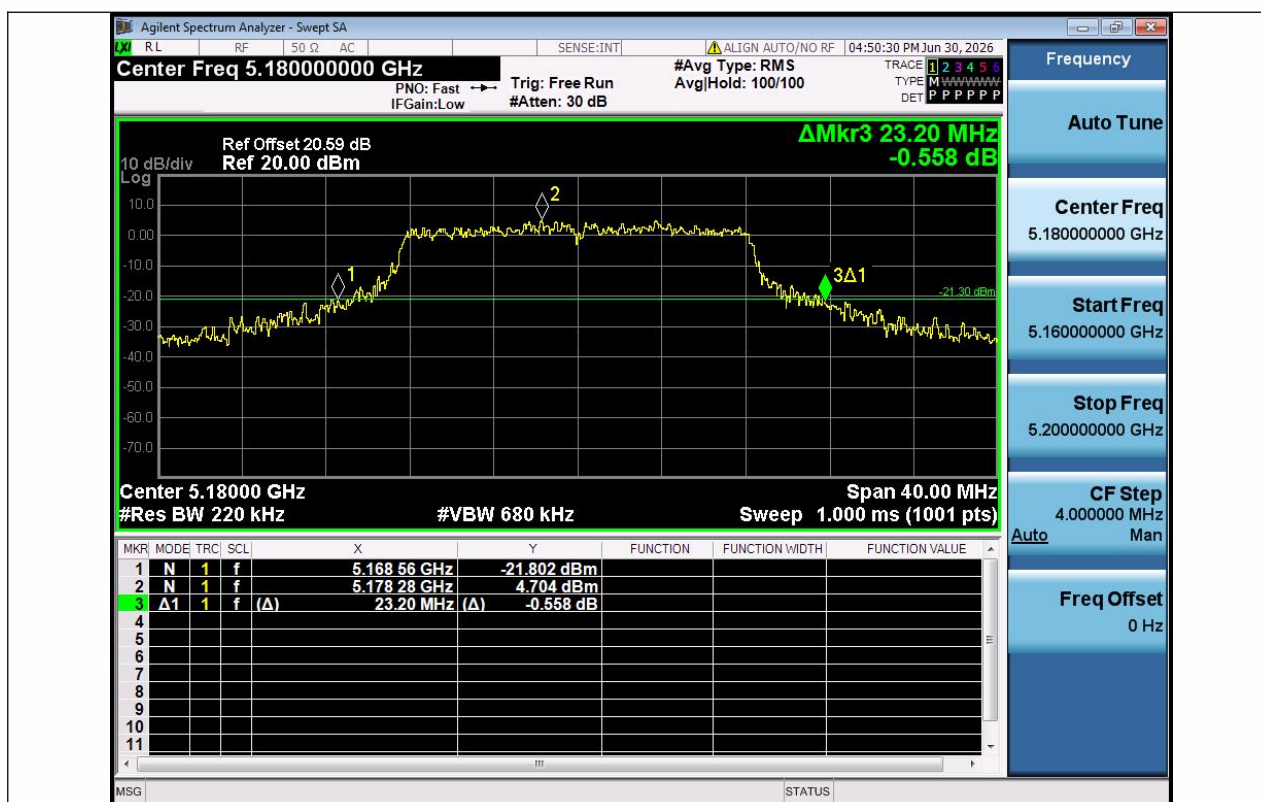
Temperature:	23.2°C
Relative Humidity:	62%
ATM Pressure:	1011 mbar

Note: N/A

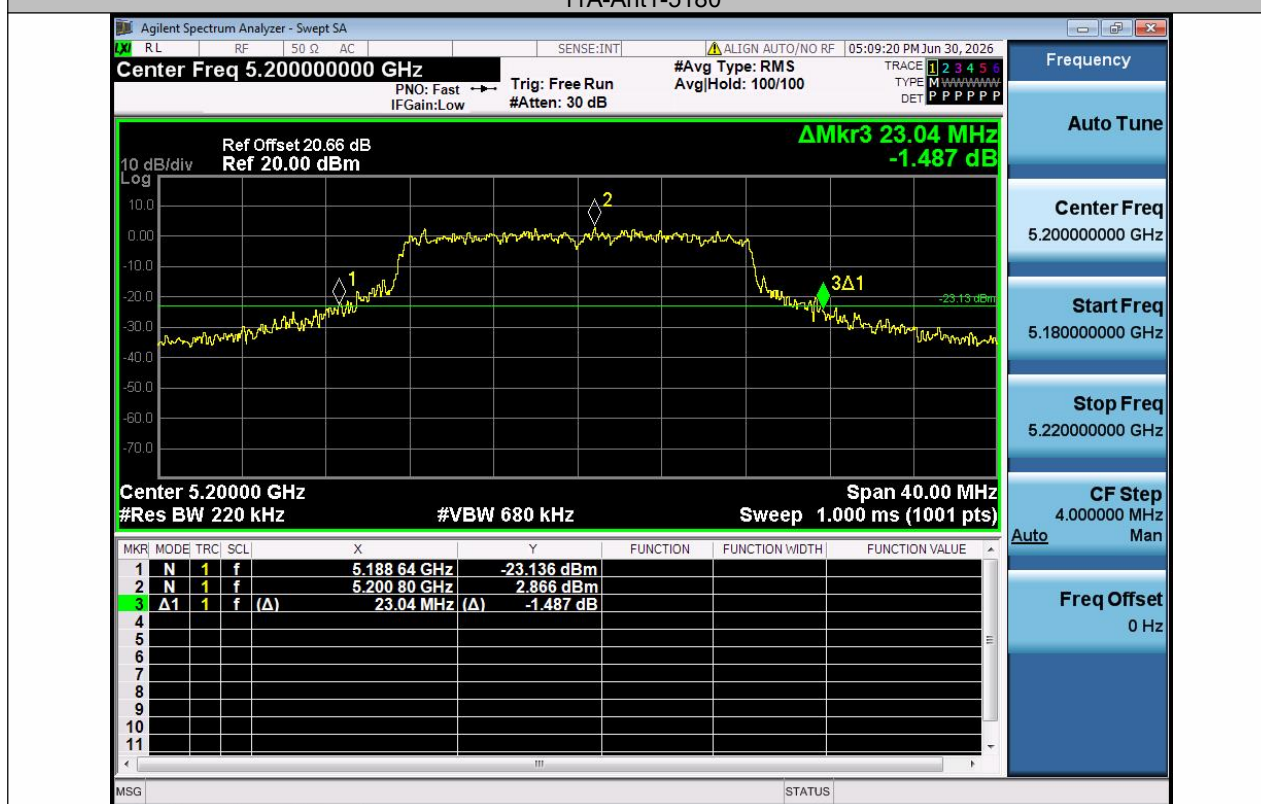
Emission Bandwidth

TestMode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	23.200	5168.560	5191.760	---	---
11A	Ant1	5200	23.040	5188.640	5211.680	---	---
11A	Ant1	5240	23.800	5228.200	5252.000	---	---
11A	Ant1	5260	23.560	5248.120	5271.680	---	---
11A	Ant1	5280	23.640	5268.200	5291.840	---	---
11A	Ant1	5320	23.120	5308.280	5331.400	---	---
11A	Ant1	5500	23.680	5488.080	5511.760	---	---
11A	Ant1	5580	23.520	5568.120	5591.640	---	---
11A	Ant1	5700	23.880	5688.680	5712.560	---	---
11A	Ant1	5745	23.600	5732.280	5755.880	---	---
11A	Ant1	5785	23.680	5773.560	5797.240	---	---
11A	Ant1	5825	23.680	5812.680	5836.360	---	---
11N20SISO	Ant1	5180	23.520	5168.560	5192.080	---	---
11N20SISO	Ant1	5200	23.720	5188.120	5211.840	---	---
11N20SISO	Ant1	5240	23.480	5227.760	5251.240	---	---
11N20SISO	Ant1	5260	23.640	5248.280	5271.920	---	---
11N20SISO	Ant1	5280	23.640	5267.880	5291.520	---	---
11N20SISO	Ant1	5320	23.520	5308.560	5332.080	---	---
11N20SISO	Ant1	5500	23.400	5488.160	5511.560	---	---
11N20SISO	Ant1	5580	23.120	5568.840	5591.960	---	---
11N20SISO	Ant1	5700	23.920	5687.960	5711.880	---	---
11N20SISO	Ant1	5745	24.680	5732.560	5757.240	---	---
11N20SISO	Ant1	5785	24.400	5772.320	5796.720	---	---
11N20SISO	Ant1	5825	24.760	5812.720	5837.480	---	---
11N40SISO	Ant1	5190	42.800	5168.960	5211.760	---	---
11N40SISO	Ant1	5230	44.320	5207.840	5252.160	---	---
11N40SISO	Ant1	5270	43.840	5248.960	5292.800	---	---
11N40SISO	Ant1	5310	42.720	5288.320	5331.040	---	---
11N40SISO	Ant1	5510	43.840	5488.800	5532.640	---	---
11N40SISO	Ant1	5550	44.960	5527.680	5572.640	---	---
11N40SISO	Ant1	5670	44.400	5648.480	5692.880	---	---
11N40SISO	Ant1	5755	43.520	5733.720	5777.240	---	---
11N40SISO	Ant1	5795	44.720	5772.520	5817.240	---	---
11AC20SISO	Ant1	5180	24.560	5168.280	5192.840	---	---
11AC20SISO	Ant1	5200	23.960	5187.840	5211.800	---	---
11AC20SISO	Ant1	5240	24.840	5228.320	5253.160	---	---
11AC20SISO	Ant1	5260	24.000	5246.880	5270.880	---	---
11AC20SISO	Ant1	5280	24.880	5268.080	5292.960	---	---
11AC20SISO	Ant1	5320	24.960	5307.640	5332.600	---	---
11AC20SISO	Ant1	5500	23.920	5487.920	5511.840	---	---
11AC20SISO	Ant1	5580	24.560	5568.160	5592.720	---	---
11AC20SISO	Ant1	5700	23.840	5688.320	5712.160	---	---
11AC20SISO	Ant1	5745	22.960	5733.480	5756.440	---	---

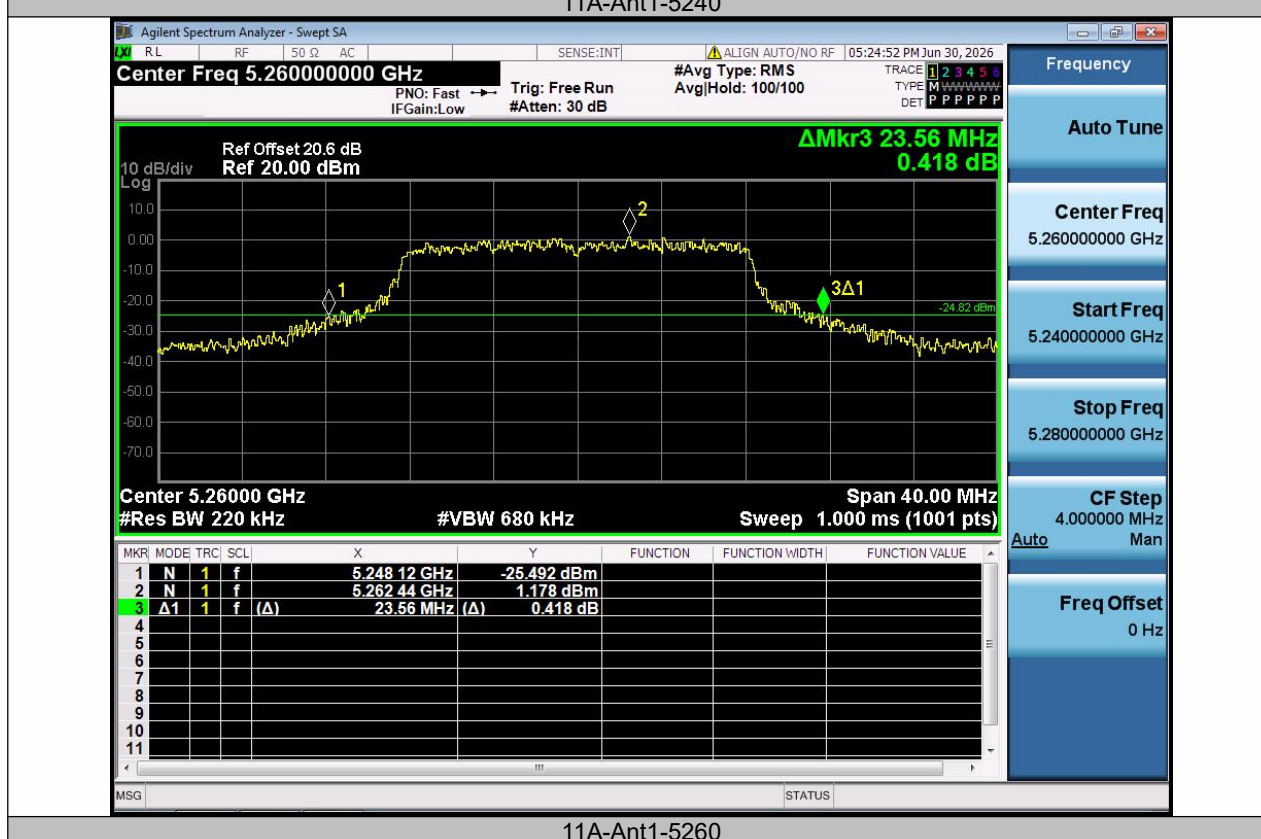
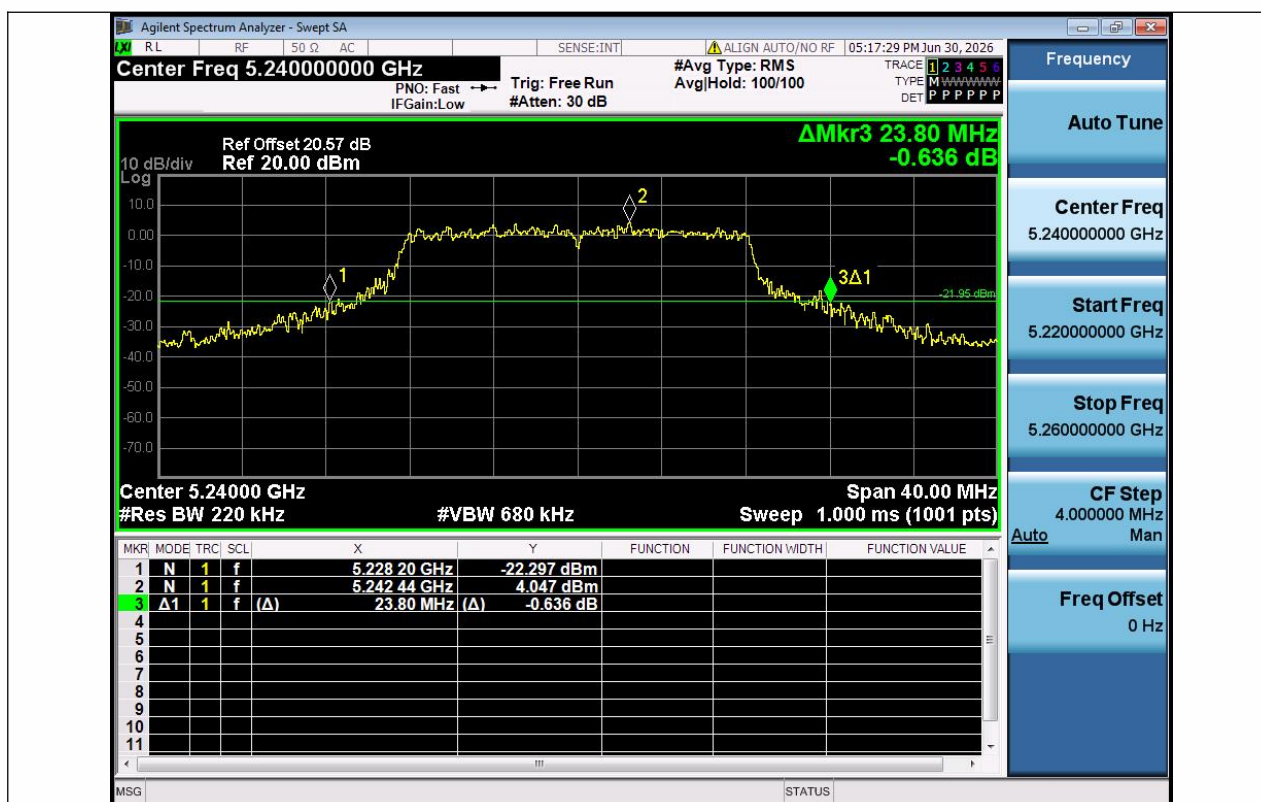
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11AC40SISO	Ant1	5270	43.440	5249.120	5292.560	---	---
11AC40SISO	Ant1	5310	43.120	5288.240	5331.360	---	---
11AC40SISO	Ant1	5510	45.760	5487.120	5532.880	---	---
11AC40SISO	Ant1	5550	44.560	5528.640	5573.200	---	---
11AC40SISO	Ant1	5670	42.960	5648.960	5691.920	---	---
11AC40SISO	Ant1	5755	44.720	5731.560	5776.280	---	---
11AC40SISO	Ant1	5795	44.640	5772.920	5817.560	---	---
11AX20SISO	Ant1	5180	24.080	5168.680	5192.760	---	---
11AX20SISO	Ant1	5200	24.240	5188.480	5212.720	---	---
11AX20SISO	Ant1	5240	24.760	5228.520	5253.280	---	---
11AX20SISO	Ant1	5260	22.800	5249.560	5272.360	---	---
11AX20SISO	Ant1	5280	24.760	5268.320	5293.080	---	---
11AX20SISO	Ant1	5320	22.000	5309.520	5331.520	---	---
11AX20SISO	Ant1	5500	23.880	5487.880	5511.760	---	---
11AX20SISO	Ant1	5580	23.680	5567.440	5591.120	---	---
11AX20SISO	Ant1	5700	22.520	5688.480	5711.000	---	---
11AX20SISO	Ant1	5745	24.120	5732.600	5756.720	---	---
11AX20SISO	Ant1	5785	24.680	5772.520	5797.200	---	---
11AX20SISO	Ant1	5825	23.920	5812.440	5836.360	---	---
11AX40SISO	Ant1	5190	42.640	5169.040	5211.680	---	---
11AX40SISO	Ant1	5230	44.240	5207.600	5251.840	---	---
11AX40SISO	Ant1	5270	44.480	5248.560	5293.040	---	---
11AX40SISO	Ant1	5310	42.640	5289.040	5331.680	---	---
11AX40SISO	Ant1	5510	42.800	5488.400	5531.200	---	---
11AX40SISO	Ant1	5550	44.240	5527.920	5572.160	---	---
11AX40SISO	Ant1	5670	42.720	5648.240	5690.960	---	---
11AX40SISO	Ant1	5755	42.400	5734.040	5776.440	---	---
11AX40SISO	Ant1	5795	42.800	5772.440	5815.240	---	---

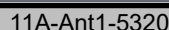
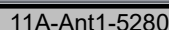


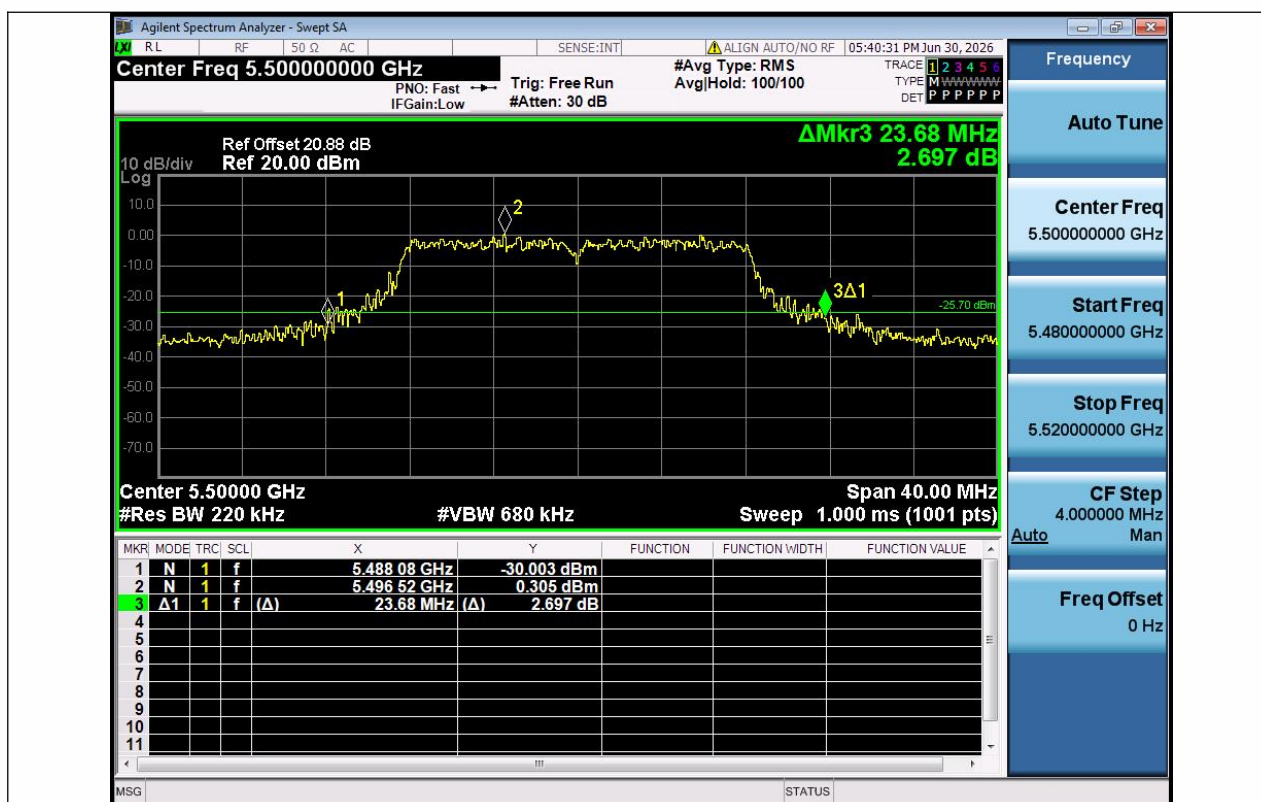
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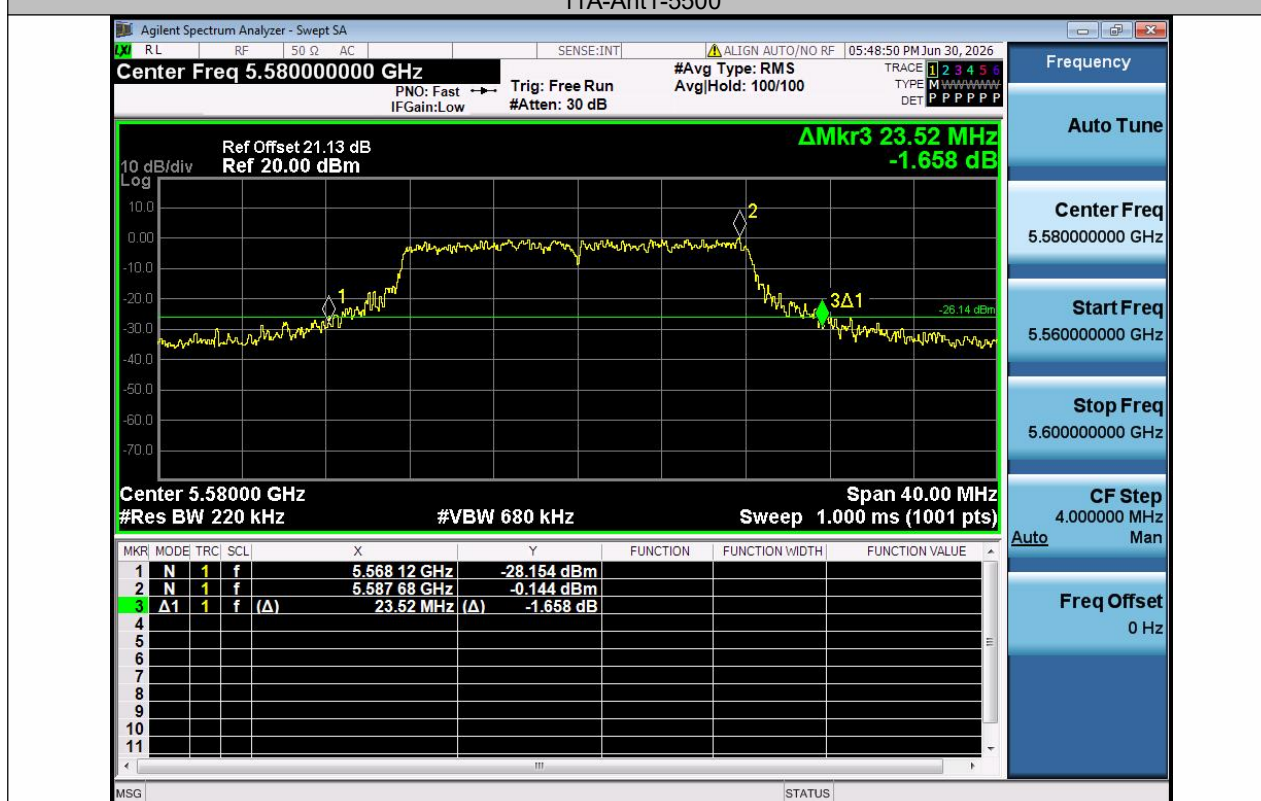
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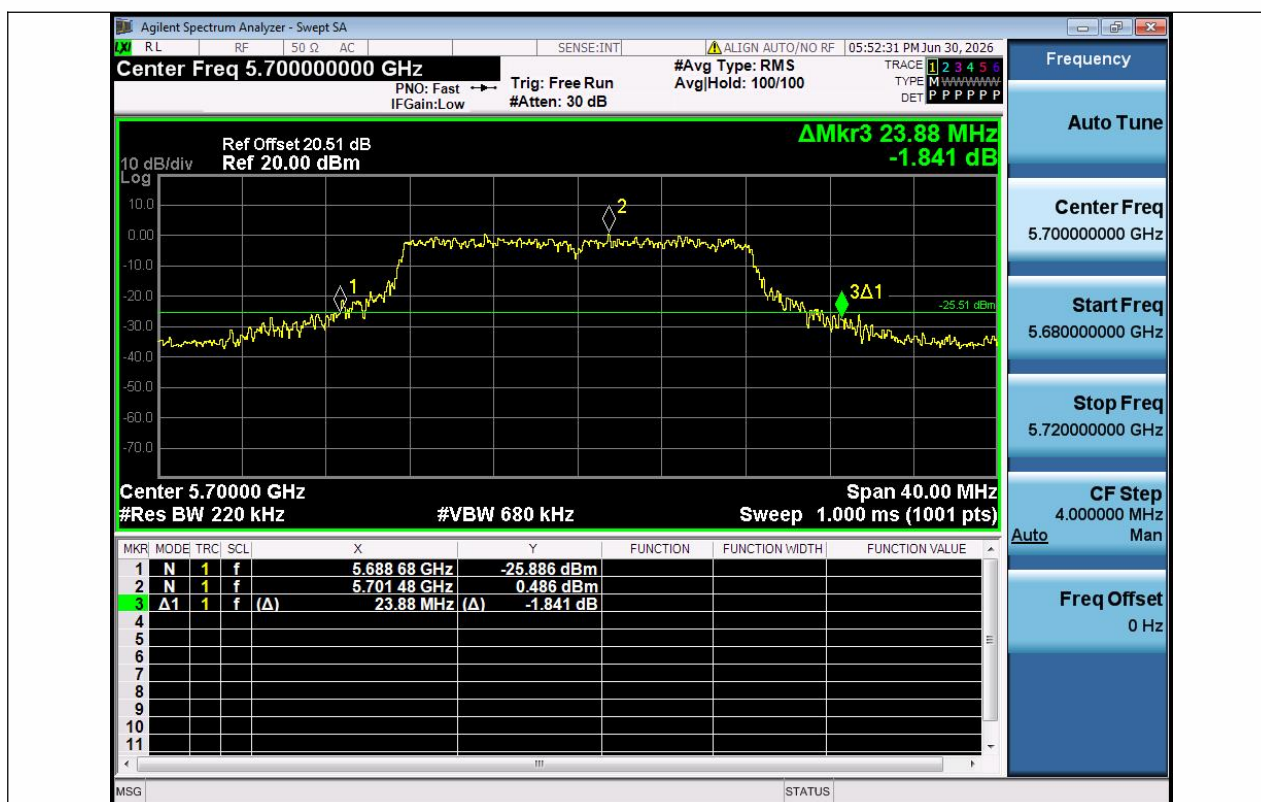




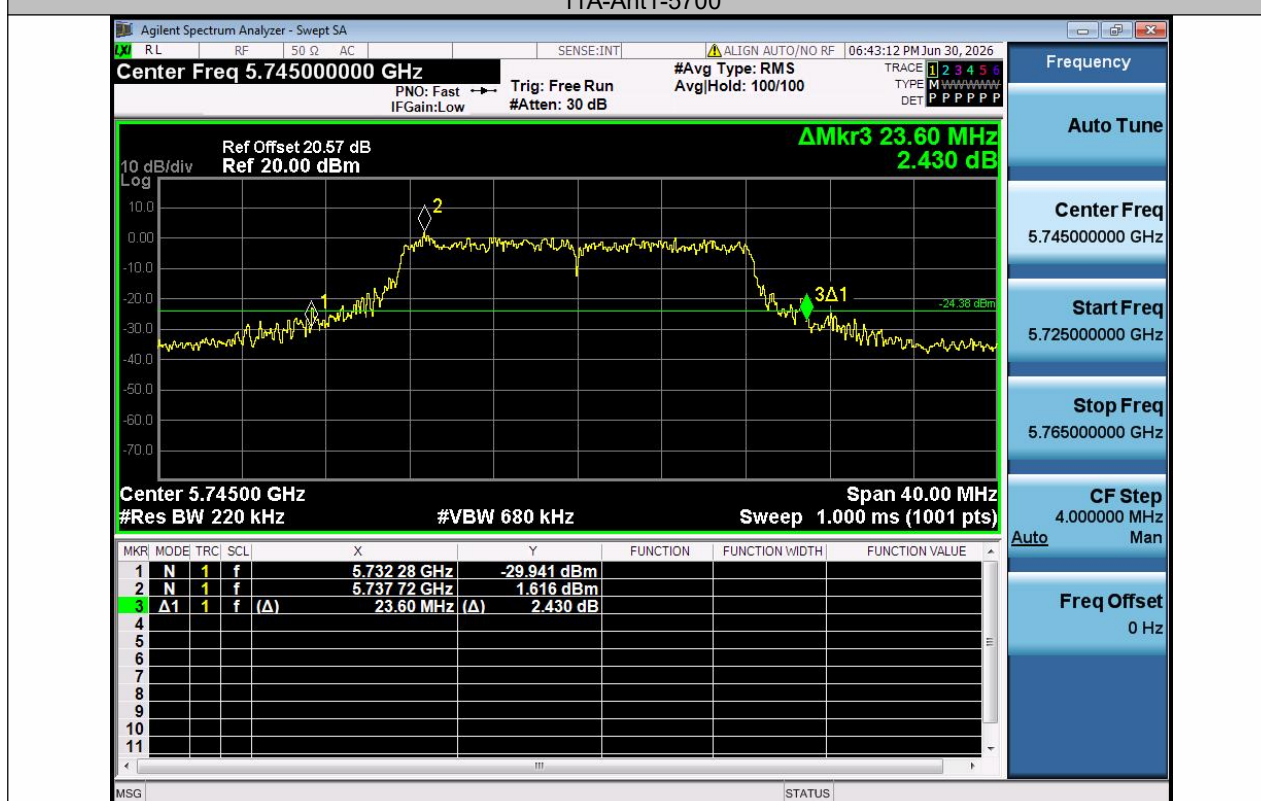
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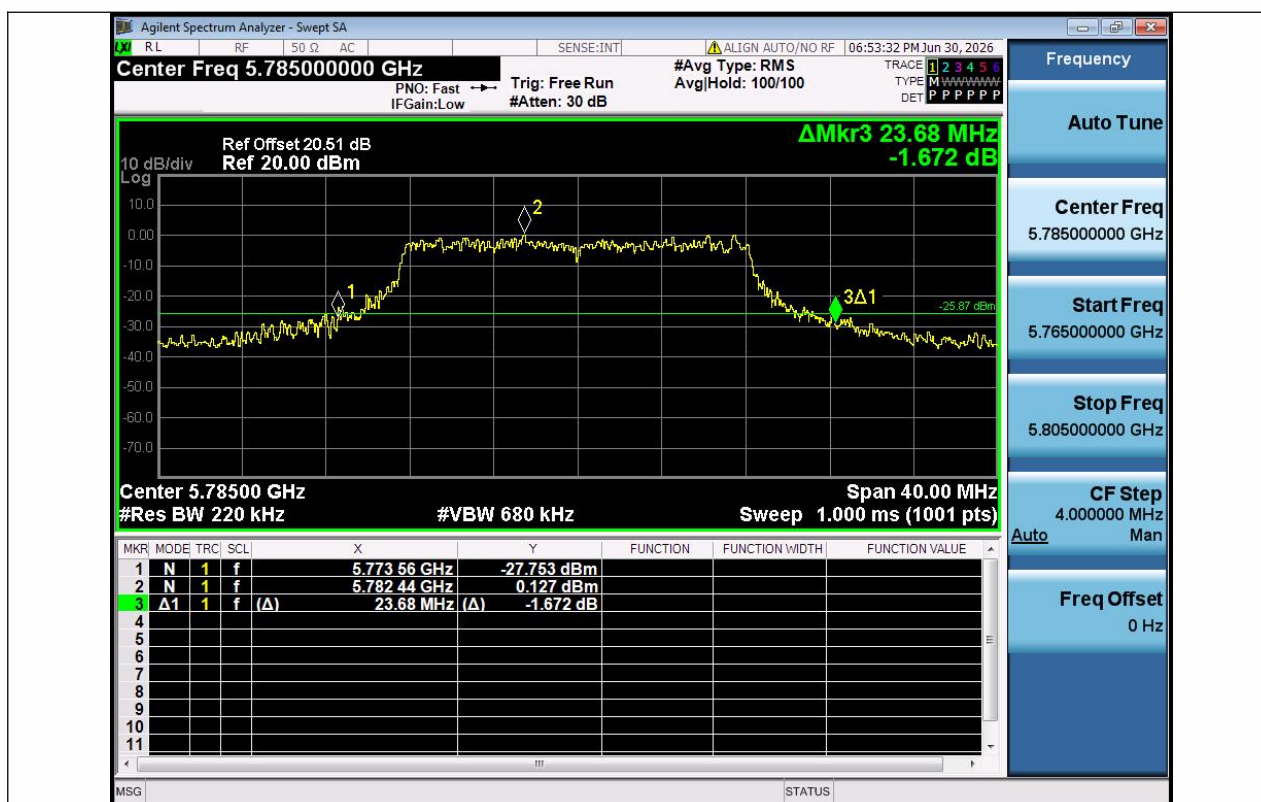
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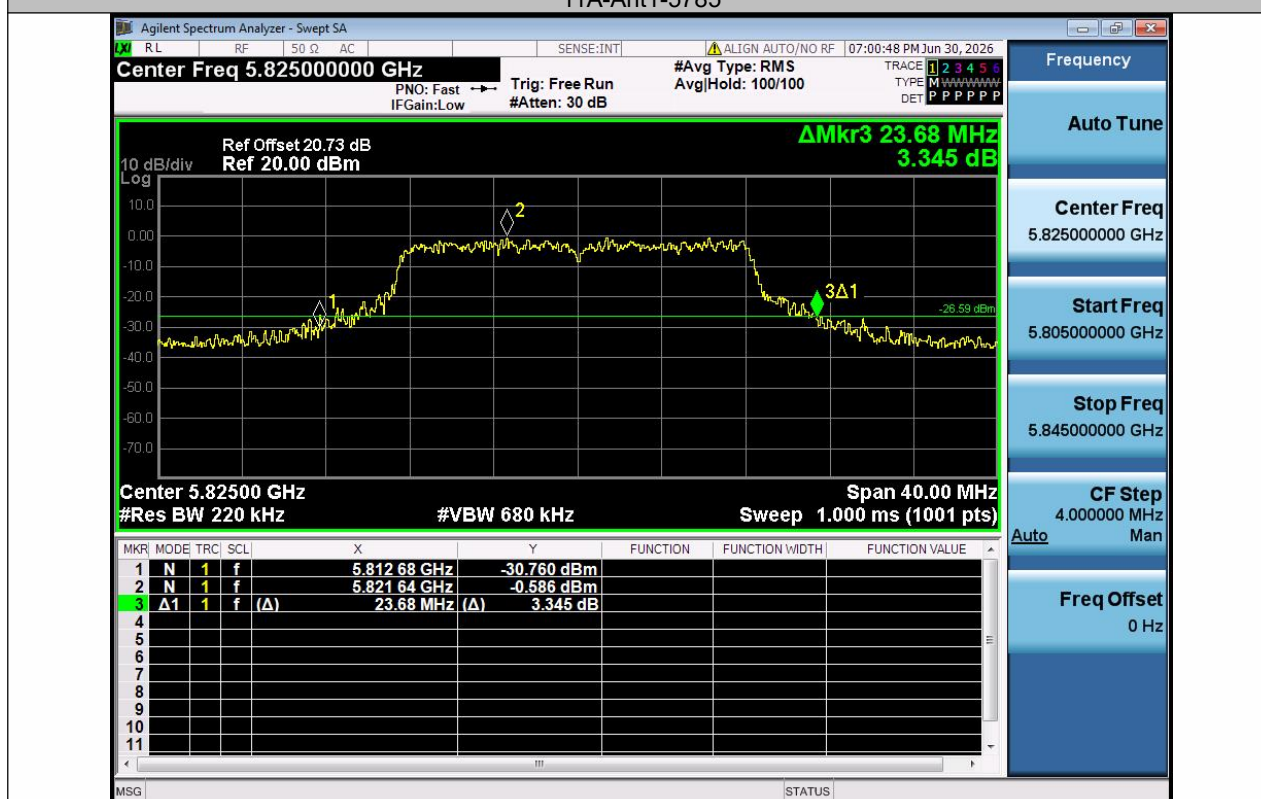
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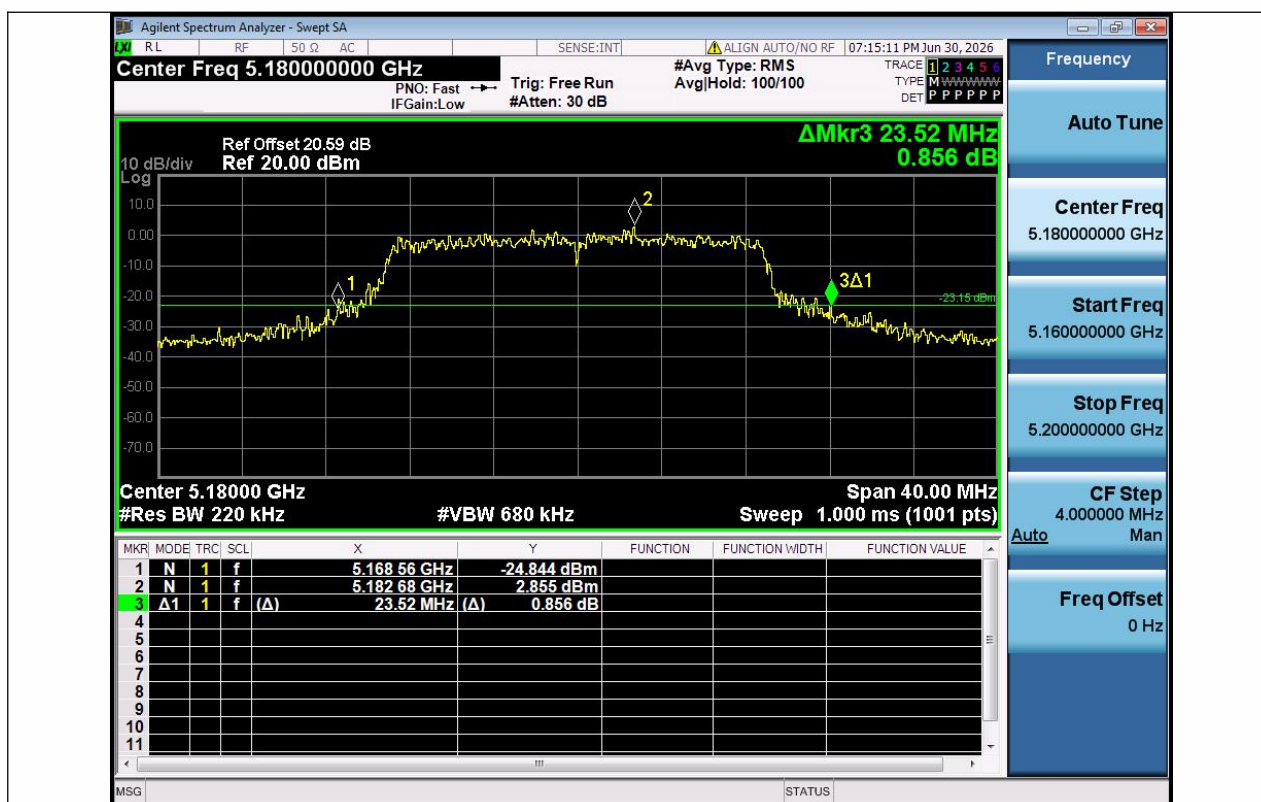
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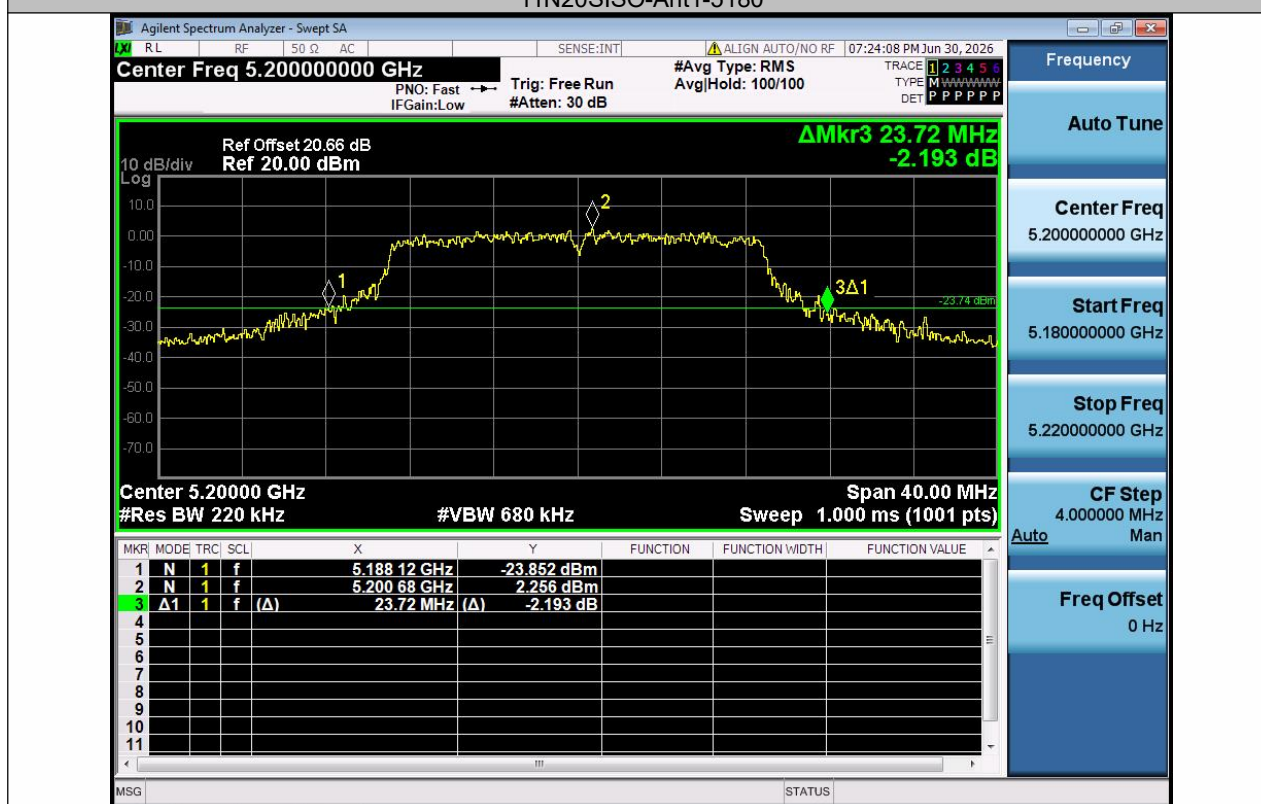
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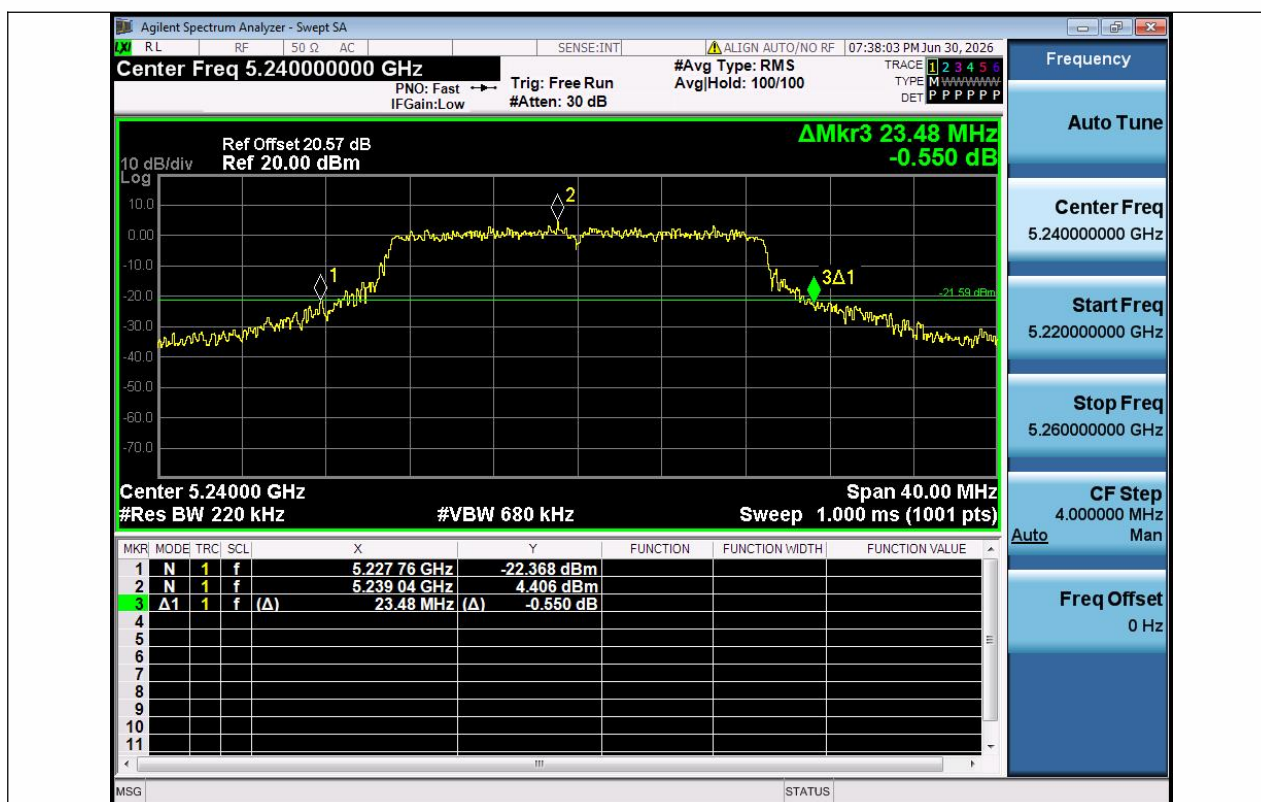
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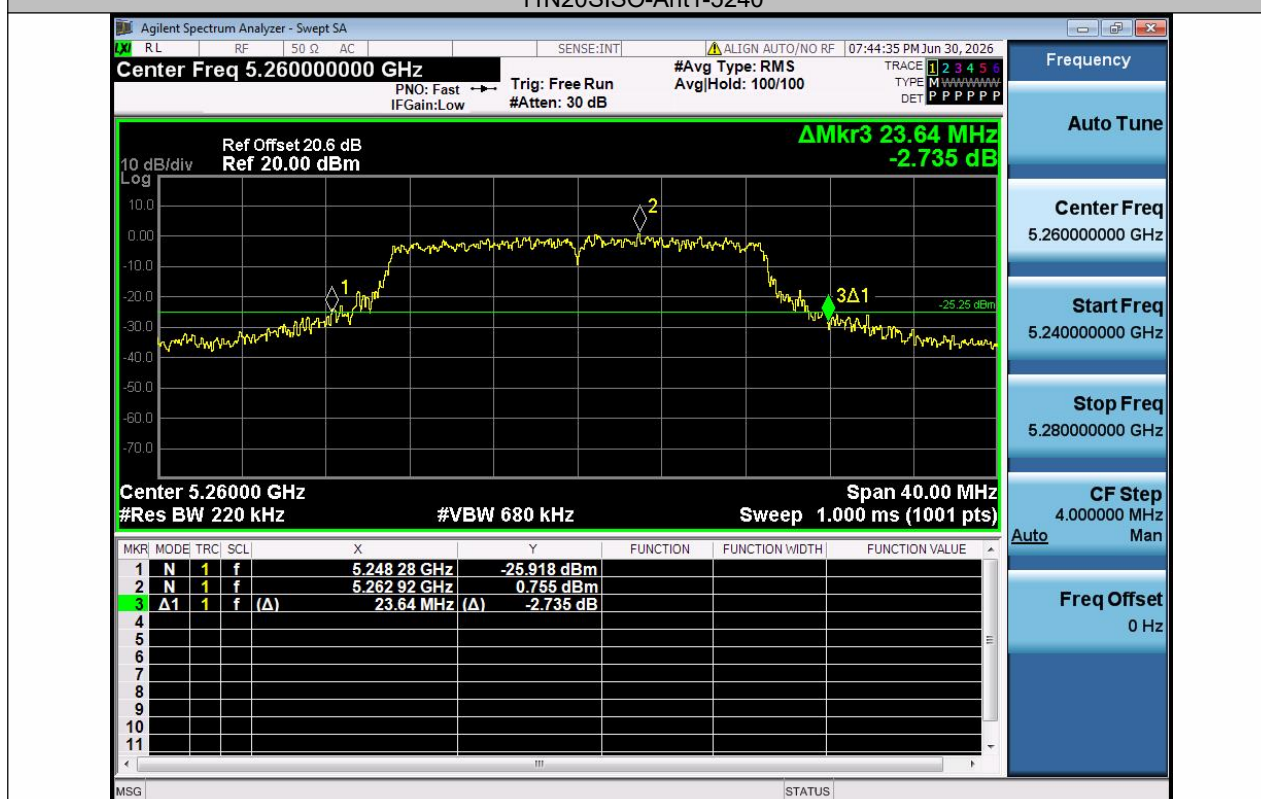
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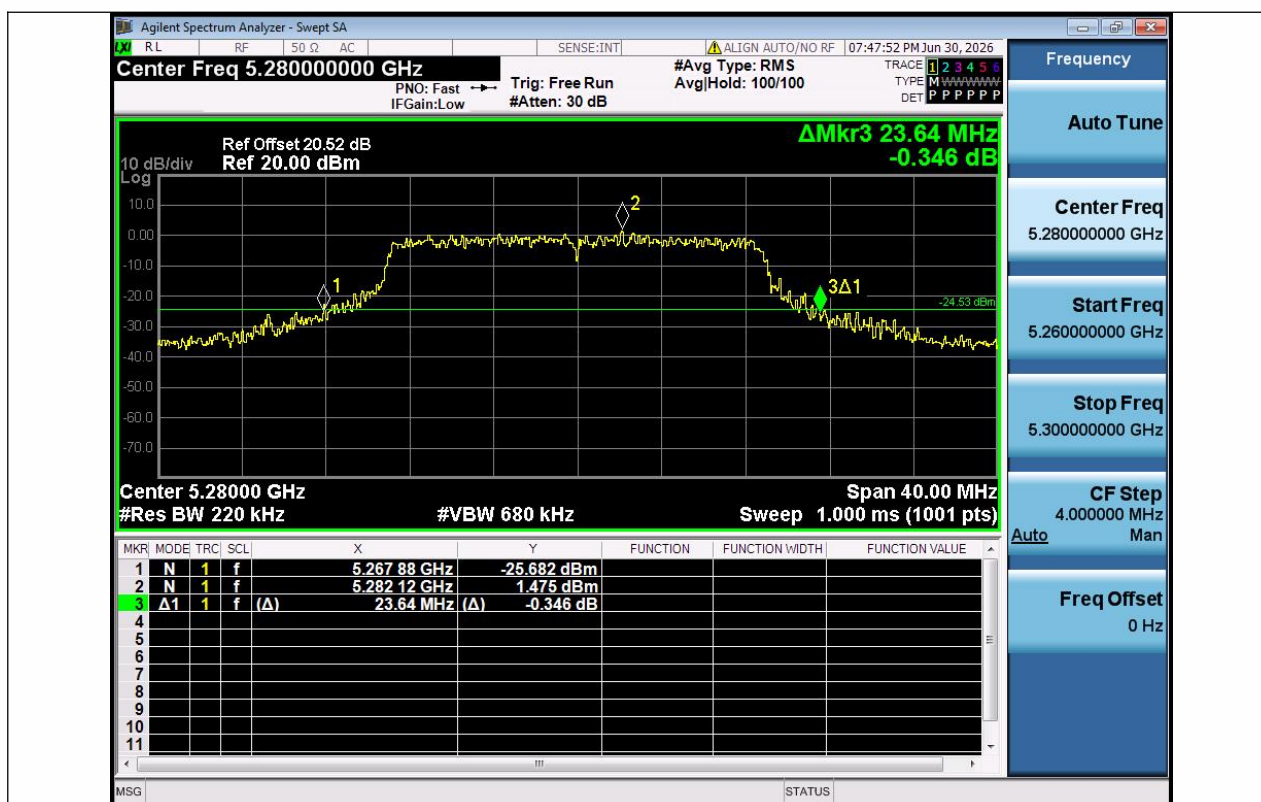
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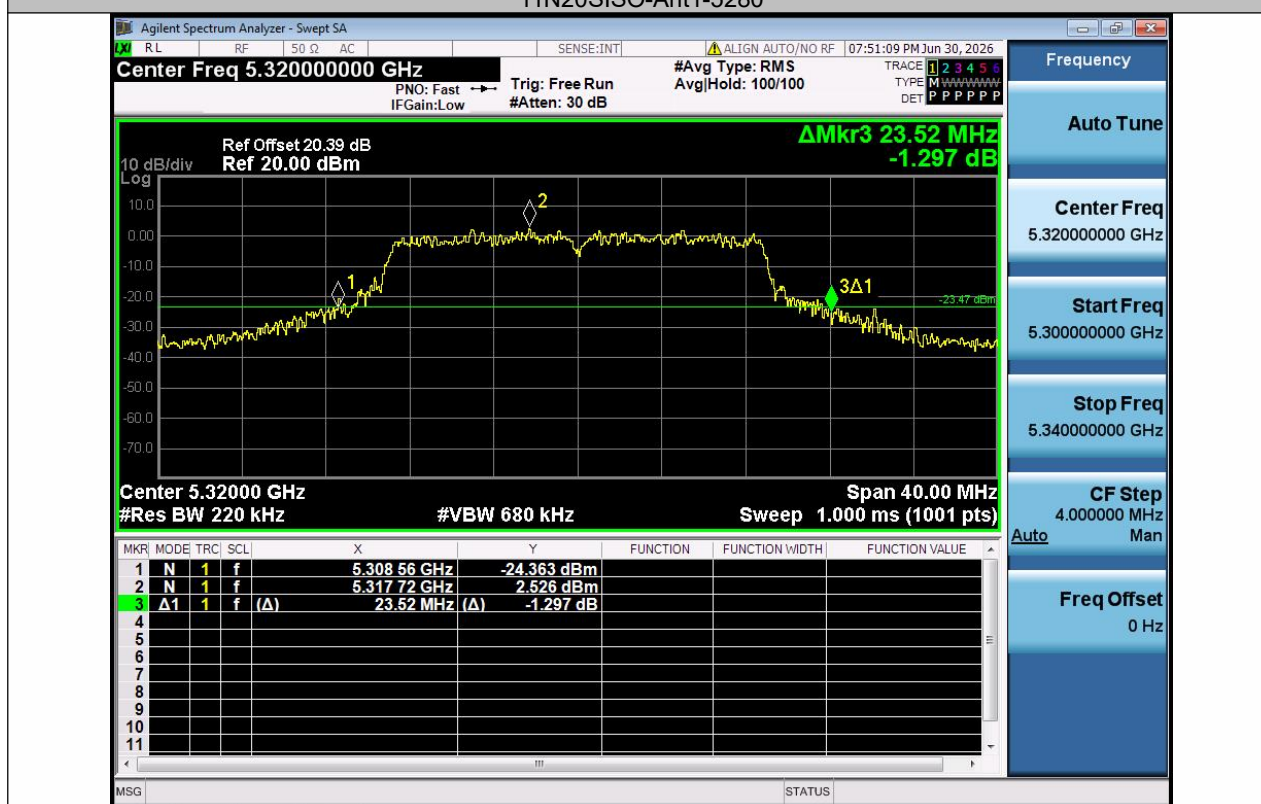
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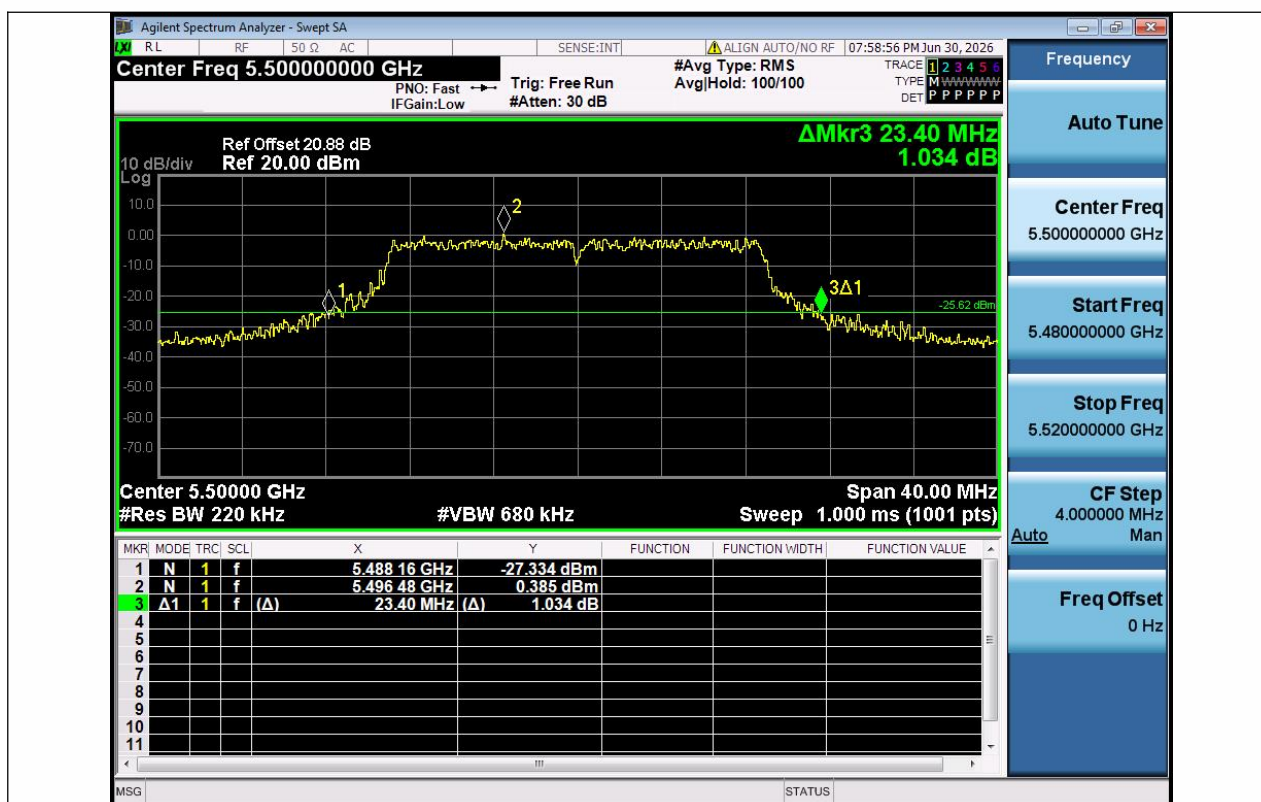
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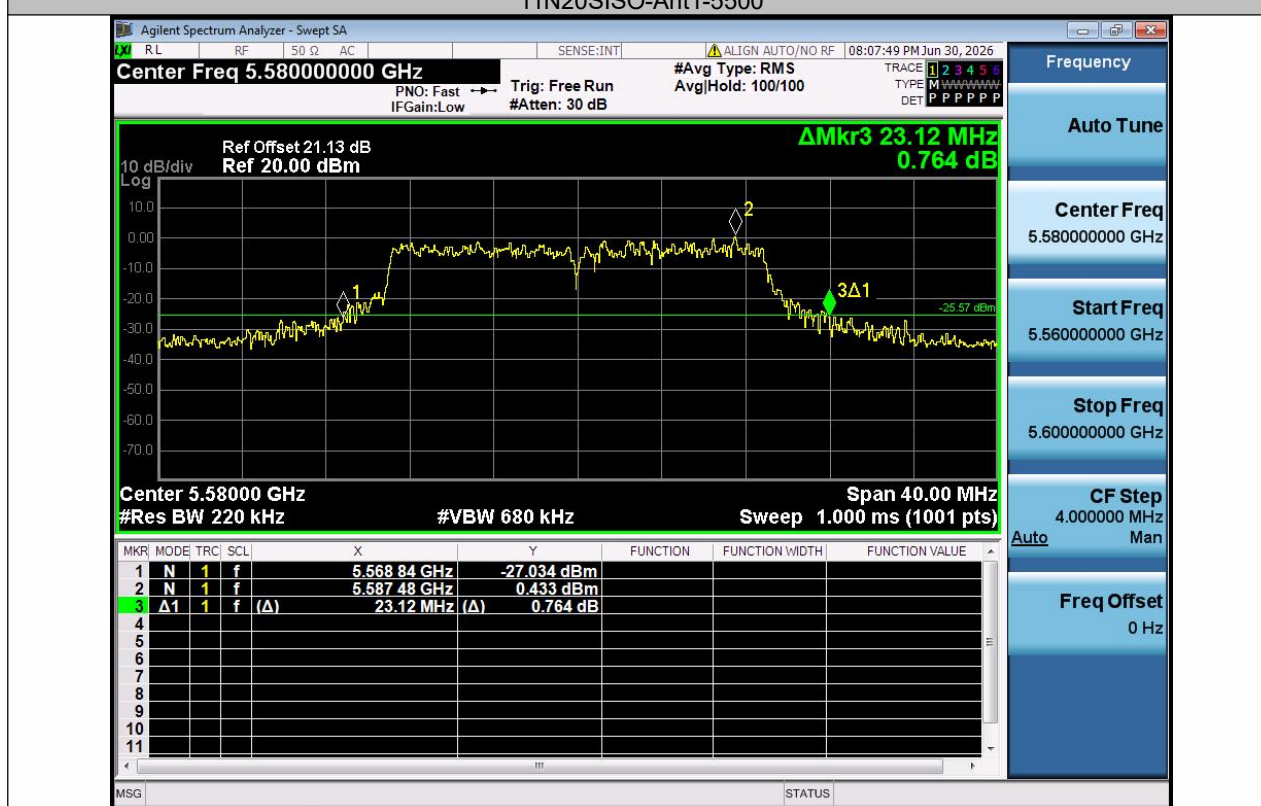
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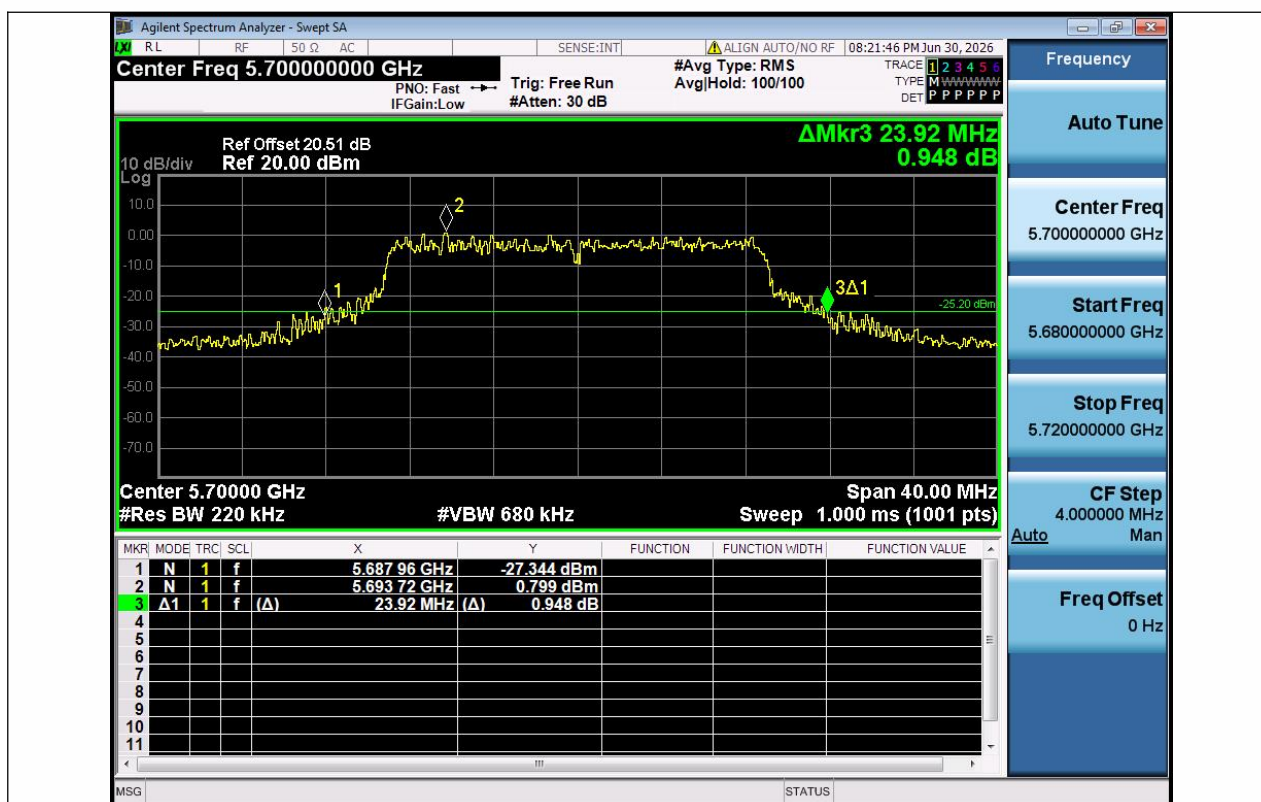
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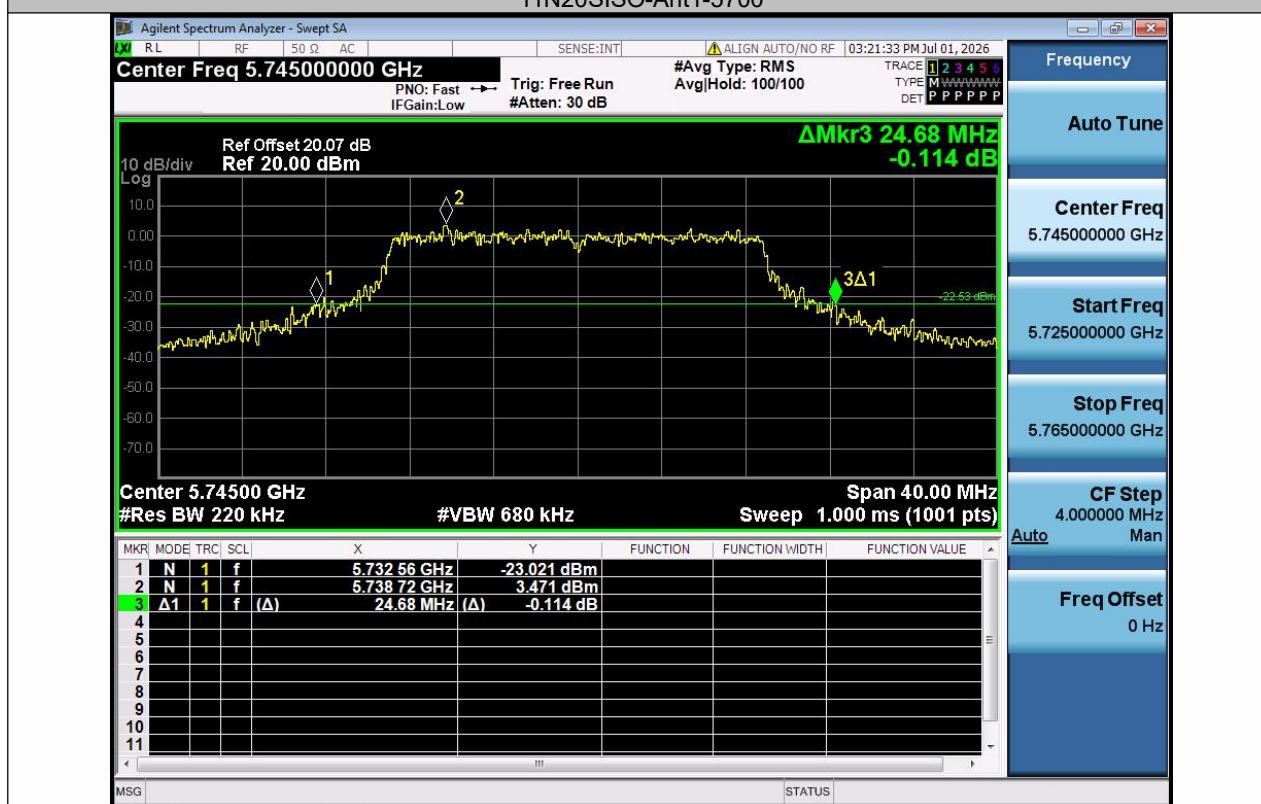
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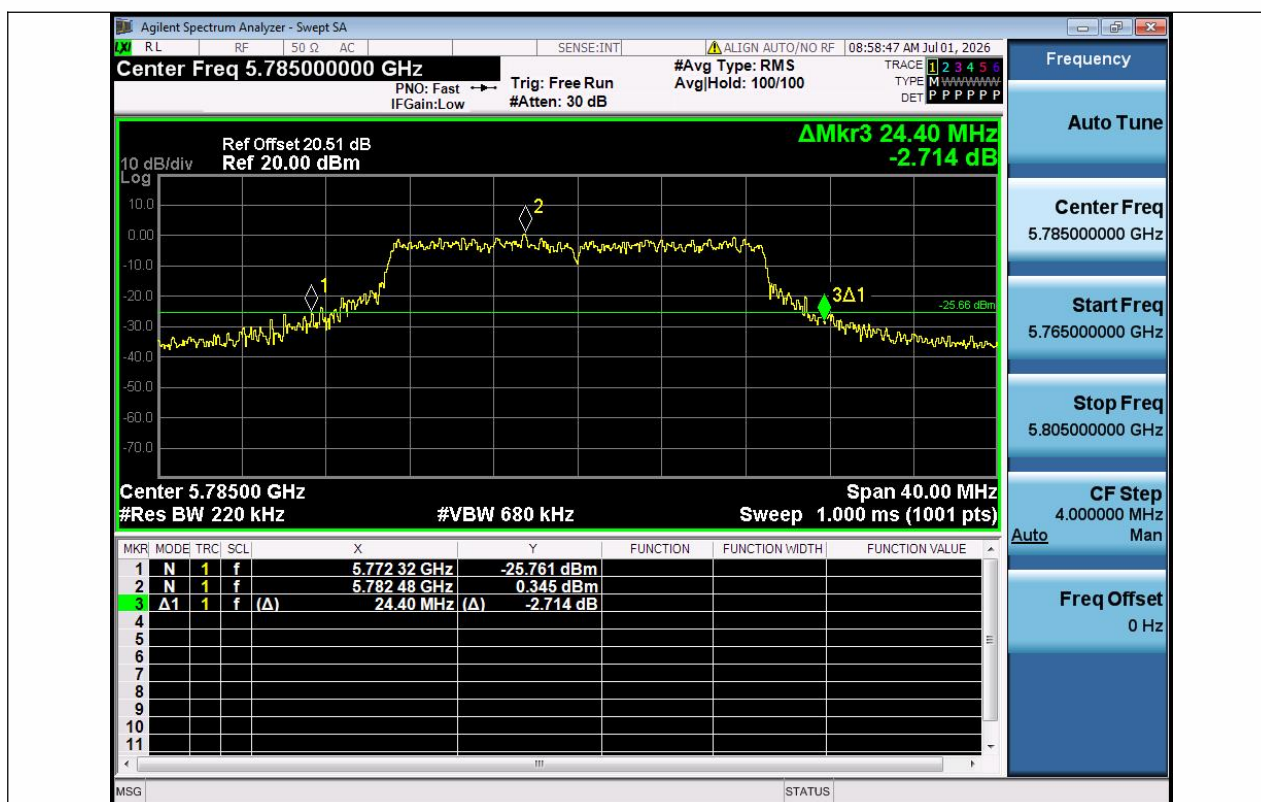
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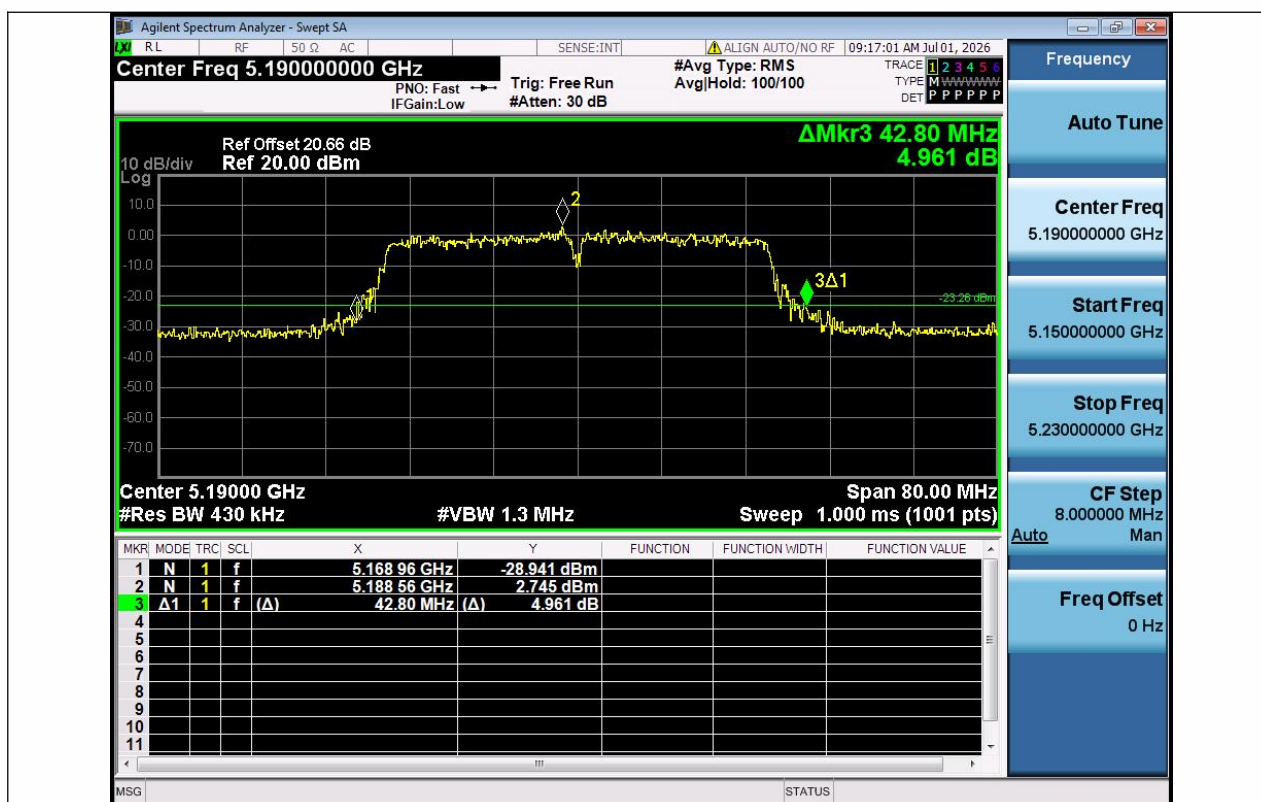
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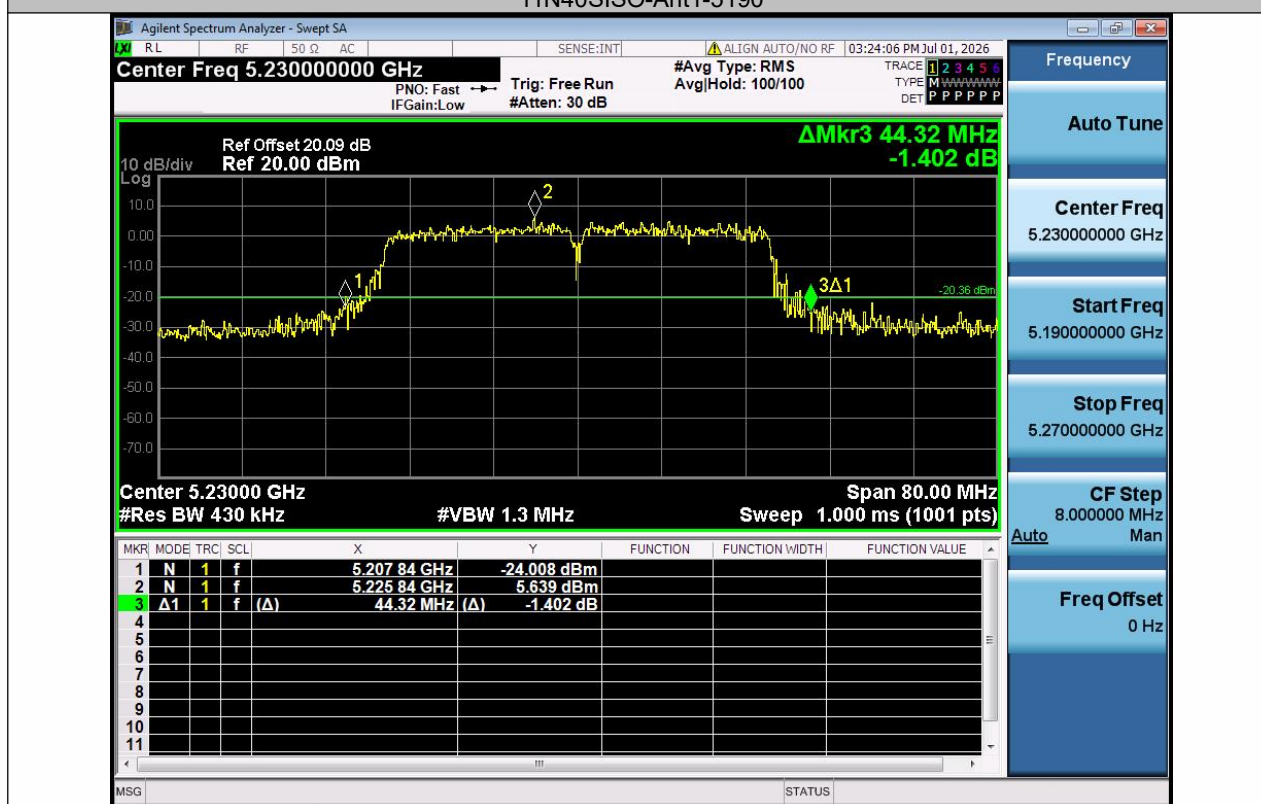
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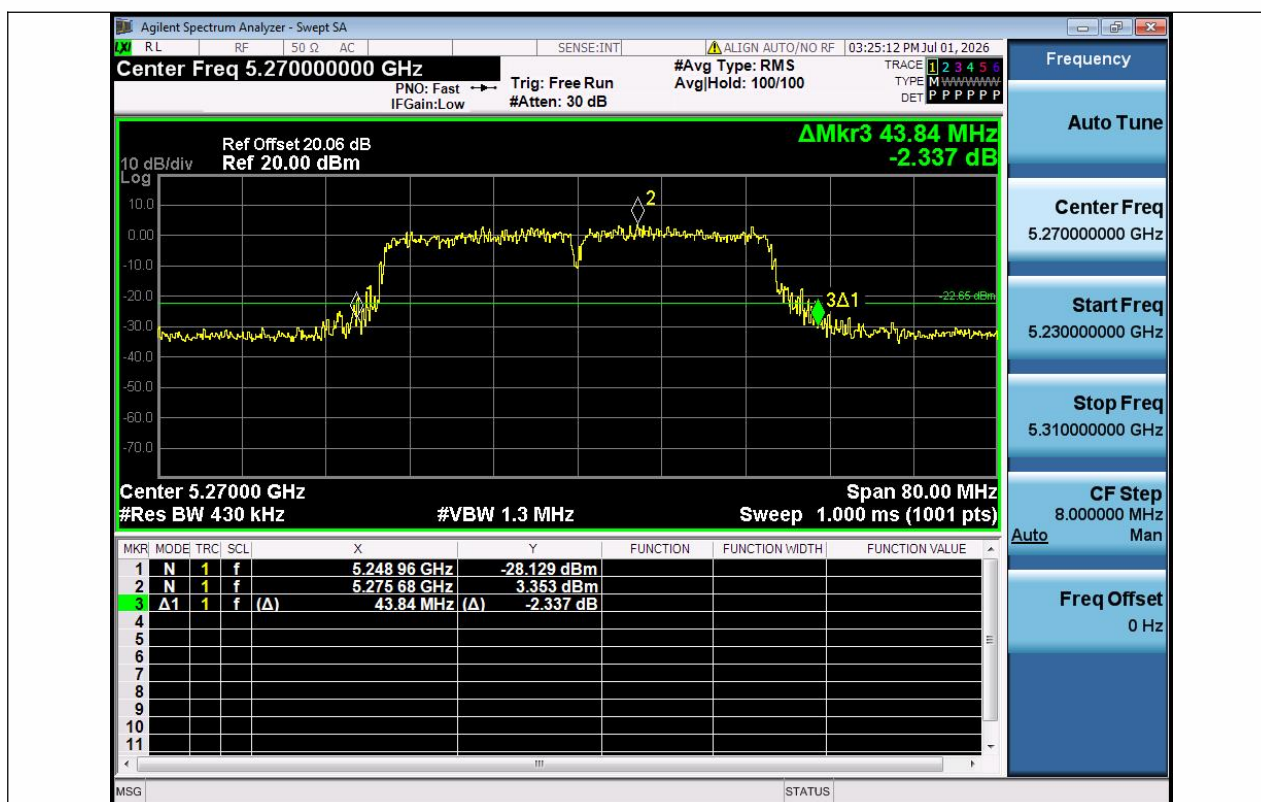
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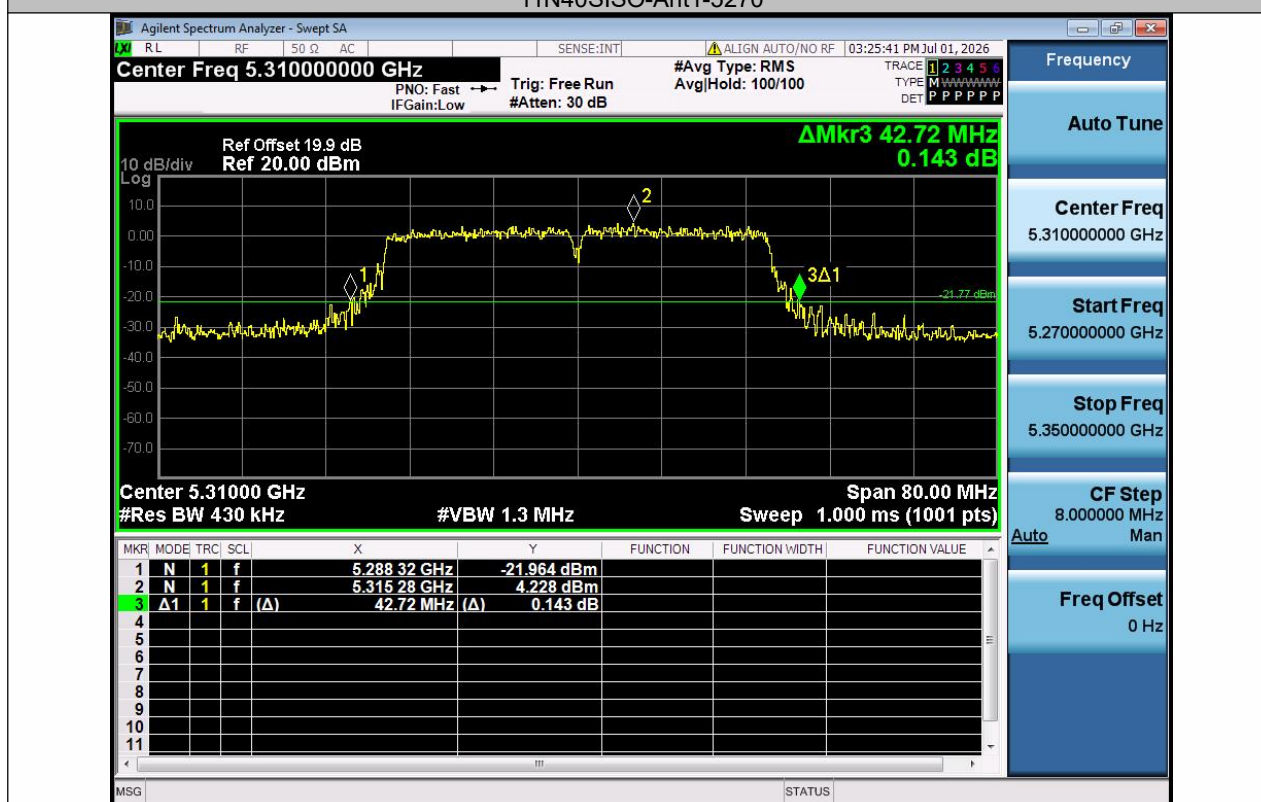
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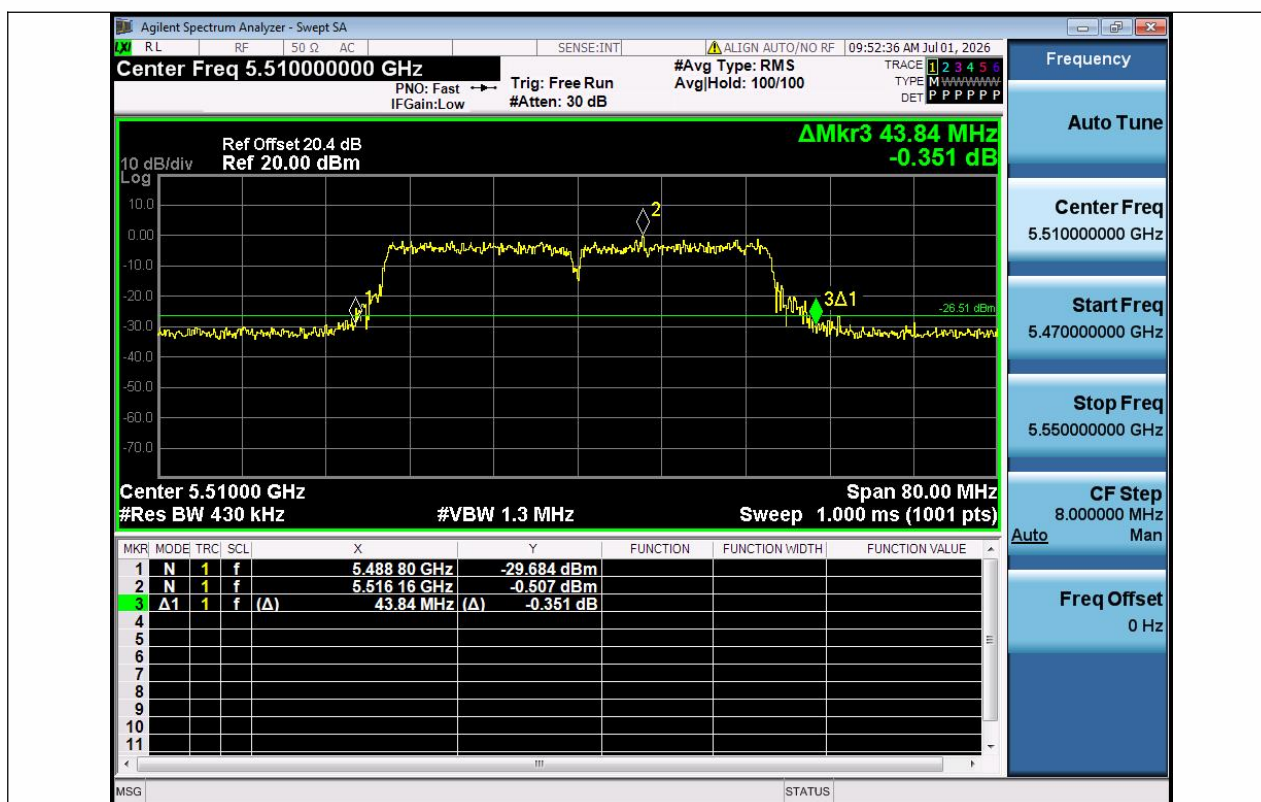
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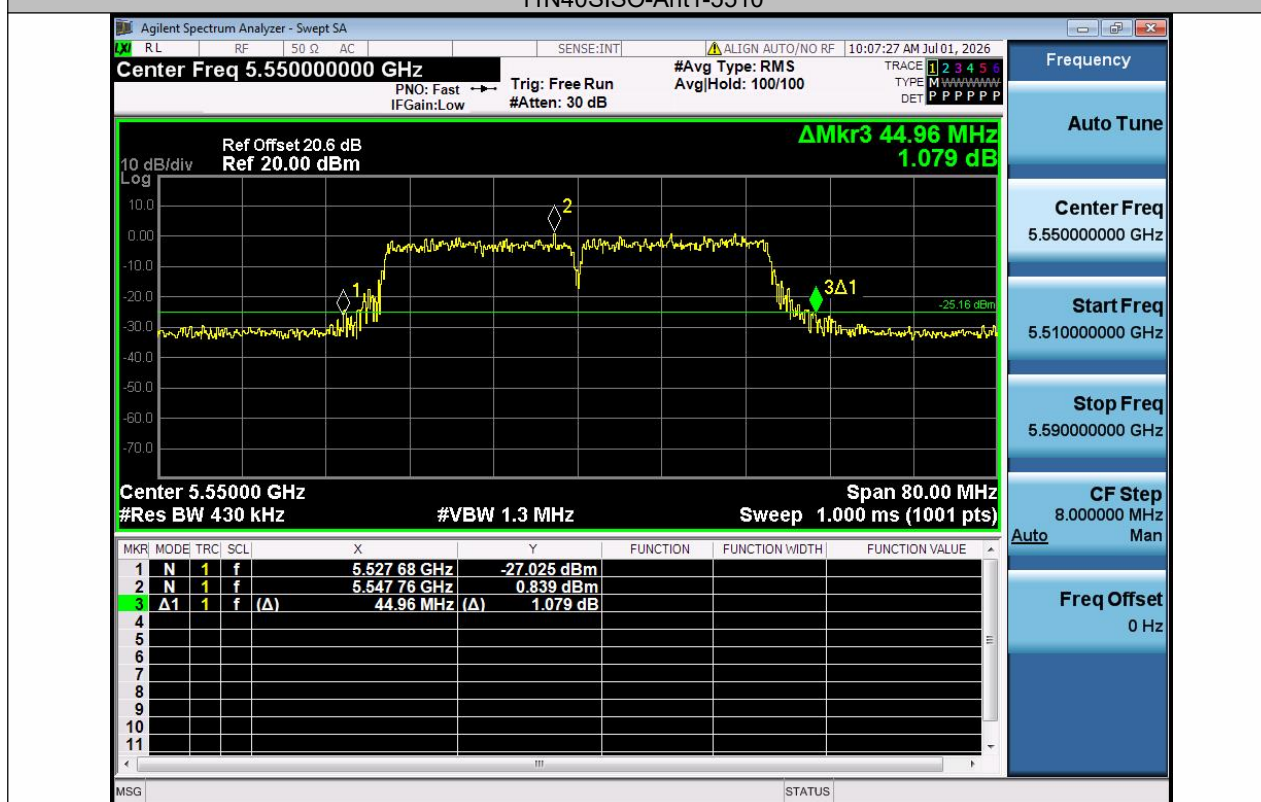
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