
MIC-R Test Report

Report No.: AGC00688260505TR01

PRODUCT DESIGNATION : Wireless Microphone for Wireless Voice Amplifier

BRAND NAME : SANWA SUPPLY

MODEL NAME : 400-SP123WHMA, 400-SP123WHMB

APPLICANT : SANWA SUPPLY INC.

DATE OF ISSUE : Jun. 15, 2026

STANDARD(S) : ARIB RCR STD-15 V5.1
Article 2 Paragraph 1 Item 8 of the Certification,
Article 49.20 of Ordinance Regulating Radio Equipment
MIC Notice No.88 Appendix No.22-8

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd.



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Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 15, 2026	Valid	Initial release

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1. General Information

Applicant	SANWA SUPPLY INC.
Address	1-10-1 Tamachi Kita-ku Okayama City 700-0825 Japan
Manufacturer	Guangdong Takstar Electroacoustic Co., Ltd.
Address	Xiazhao, Damen Village, Xialiao Village Committee, Longxi Street, Boluo County, Huizhou City, Guangdong, P.R. China
Factory	Guangdong Takstar Electroacoustic Co., Ltd.
Address	Xiazhao, Damen Village, Xialiao Village Committee, Longxi Street, Boluo County, Huizhou City, Guangdong, P.R. China
Product Designation	Wireless Microphone for Wireless Voice Amplifier
Brand Name	SANWA SUPPLY
Test Model	400-SP123WHMA
Series Model(s)	400-SP123WHMB
Difference Description	All the same except for the model name.
Date of receipt of test item	May 19, 2026
Date of test	May 19, 2026~Jun. 10, 2026
Test Standard	Article 2 Paragraph 1 Item 8 of the Certification, MIC Notice No.88 Appendix No.22-8
Test Result	Pass

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

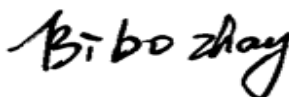
Prepared By



Jack Gui
(Project Engineer)

Jun. 15, 2026

Reviewed By



Bibo Zhang
(Reviewer)

Jun. 15, 2026

Approved By



Angela Li
(Authorized Officer)

Jun. 15, 2026

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2. Product Information

2.1 Product Technical Description

Hardware Version	HM-200W_TX
Software Version	V1.0
Operation Frequency Range	806.375MHz-809.125MHz
Support Channels	6 Channels
Modulation	FSK
Antenna Type	Internal Antenna
Antenna Gain	1.5dBi
Rated RF Output Power	0.5mW
Conducted Power	0.42mW
Test Power(TX)	HV: (3.30V) High Voltage + 10% of Normal Voltage LV: (2.70V) Low Voltage - 10% of Normal Voltage NV: (3.00V) Normal Voltage

Note:

1. The EUT is divided into a receiver and a transmitter, each with an antenna.
2. Only those frequencies within 806.375MHz-809.125MHz were tested according the standard requirement.
3. The EUT has single chip with one antennas and the output of the antenna feeder is 50 Ohm.
4. For more details, please refer to the User's manual of the EUT.

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2.2 Channel List

Frequency Band	Channel Number	Frequency (MHz)
806.375MHz-809.125MHz	A01	806.375
	A02	806.750
	A03	807.125
	B01	808.125
	B02	808.625
	B03	809.125

Note 1: This frequency meets the standard requirements of 806.125-809.750MHz (125KHz interval 30 channels).

2.3. Test Items and the Results

Ordinance Regulating Radio Equipment	Description of Test	Result
Article 5 Annex 1	Frequency Error	Complies
Article 6 Annex 2.28	Occupied Bandwidth (99%)	Complies
Article 7 Annex 3.22	Unwanted Emission Intensity	Complies
Article 6.4 & 14	Antenna Power Error	Complies
Article 24.1	Limitation of Collateral Emission of Receiver	Complies
Article 49-14	Transmission Antenna Gain	Not applicable
--	Transmission Radiation Angle Width (3dB Bandwidth)	Not applicable
Article 49-14	Adjacent channel leakage power	Complies
Article 49-14	Carrier Sense Capability	Complies
Article 49-14	Construction Protection Confirmation	Complies

Note:

1. MIC Notice No.88 Appendix No.22-8
2. MIC Ordinance Regulating Radio Equipment Section 4.17 of Article 49.14

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2.4 Description of Test Modes

Test Mode	Description
Transmitter Test	
SRD_806.375_FSK	SRD Transmitting mode (Channel: A01)
SRD_806.750_FSK	SRD Transmitting mode (Channel: A02)
SRD_807.125_FSK	SRD Transmitting mode (Channel: A03)
SRD_808.125_FSK	SRD Transmitting mode (Channel: B01)
SRD_808.625_FSK	SRD Transmitting mode (Channel: B02)
SRD_809.125_FSK	SRD Transmitting mode (Channel: B03)
Receiver Test	
SRD_806.375_FSK	SRD Receiving mode(Channel: A01)
SRD_806.750_FSK	SRD Receiving mode(Channel: A02)
SRD_807.125_FSK	SRD Receiving mode(Channel: A03)
SRD_808.125_FSK	SRD Receiving mode(Channel: B01)
SRD_808.625_FSK	SRD Receiving mode(Channel: B02)
SRD_809.125_FSK	SRD Receiving mode(Channel: B03)

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3. Setup of Equipment Under Test

3.1 Setup Configuration of EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

3.2 Support Equipment

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?				
☒ No ☐ Yes				
Item	Equipment	Trade Name	Model No.	Specification
1	--	--	--	--

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4. Test Environment

4.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

4.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842(CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

VCCI Membership No.: 4112

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered in accordance with VCCI Council Rules.

VCCI Registration No. C-20098 for conducted emissions at AC main power ports

VCCI Registration No. T-20102 for conducted emissions at telecommunication ports

VCCI Registration No. R-20136 for radiated emissions below 1GHz

VCCI Registration No. G-20132 for radiated emissions above 1GHz

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4.3 environmental conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	45 % - 85 %
Pressure range (kPa)	86 - 106

4.4 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%.

Item	Measurement Uncertainty
Uncertainty of Radio Frequency	$U_c = \pm 1 \times 10^{-7}$
Uncertainty of Total RF Power, Conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of Total RF Power, Radiated	$U_c = \pm 1.1 \text{ dB}$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$
Uncertainty of Spurious Emissions, Conducted (30MHz-1GHz)	$U_c = \pm 2.7 \text{ dB}$
Uncertainty of Spurious Emissions, Conducted (1GHz-40GHz)	$U_c = \pm 3.2 \text{ dB}$

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4.5 List of Equipment Used

● Measuring Equipment Calibration Information							
Used	Calibration Company Abbreviation	Full Name of calibration company					
☐	CCIC	CCIC (Shenzhen) Metrology & Testing Service Co.,Ltd					
☒	GRG	GRG METROLOGY & TEST GROUP CO.,LTD.					
● Calibration Information (Article 24-2, Paragraph 4 of the Radio Act)							
☐	a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act						
☐	(b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act						
☒	(c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act						
☐	(d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above						
● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2026-05-20	2027-05-19
☐	AGC-ER-E041	Spectrum Analyzer	Agilent	N9020A	W1312-60196	2026-05-20	2027-05-19
☒	AGC-BQ-E102	Power Meter	R&S	NRP-Z21	104604	2026-05-19	2027-05-18
☒	AGC-ER-A007	6dB Fixed Attenuator	Mini circuits	BW-S6-2W263A+	N/A	2026-01-31	2027-01-30
☐	AGC-ER-E079	Wireless Connectivity Tester	R&S	CMW270	101933	2026-05-20	2027-05-19
☐	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2025-07-24	2026-07-23
☐	AGC-ER-E059	Signal Generator	Agilent	N5182B	MY53050647	2026-01-14	2027-01-13
☒	--	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	--	RF Connection Cable	N/A	2#	N/A	Each time	N/A
☒	AGC-ER-E017	temperature and humidity recorder	testo	608-H1	N/A	2025-07-30	2026-07-29
☒	AGC-ER-E091	DC Power Supply	AIDEKESI	IT6720	800103030787810080	2026-03-13	2027-03-12

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5. Measurement Results

5.1 Frequency Error Measurement

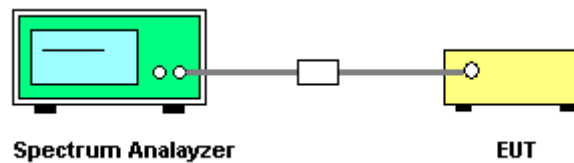
Test Limit

Test Item	Limits
Frequency Tolerance (806.375MHz-809.125MHz)	$\leq 20\text{ppm}$

Test Procedure

1. Frequency accuracy of SA shall be less than 10% of limits tolerance (5ppm)
2. Setting of SA is following as: RB: 9kHz / VB:30kHz / SPAN: 1MHz /AT: 10dB / Ref: 0dBm
3. Center Frequency: The center frequency of testing for EUT
4. Sweep time: Auto
5. Sweep mode: Continuous sweep
6. Detect mode: Positive peak
7. Mark function: Frequency Counter (Resolution 100Hz)
8. EUT have transmitted absence of modulation signal and fixed channelize. "f" is using the mark cursor to mark the peak frequency value, "fc" is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than $\pm 20\text{ppm}$

Test Setup



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Test Result

Test Temperature	21.6 °C	Relative Humidity	58.9 %
Test Engineer	Vicky	Testing Time	2026-06-09

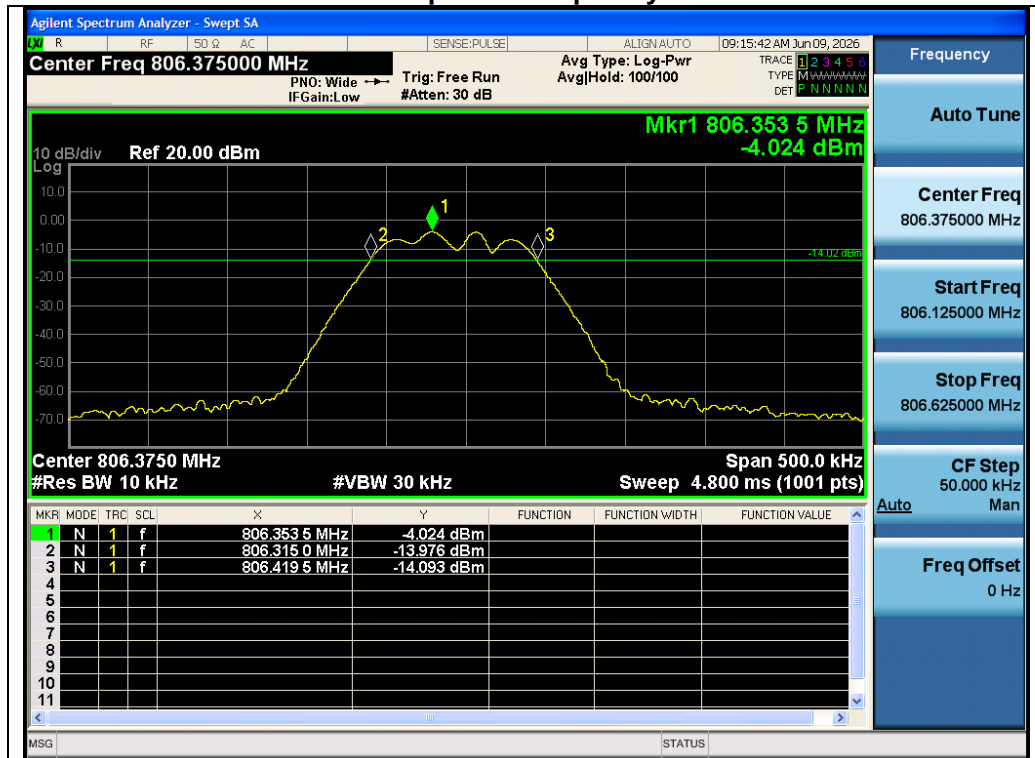
Test Data of Frequency Error							
Test Power	Test Frequency (MHz)	FL (MHz)	FH (MHz)	(FL+FH)/2 (MHz)	Frequency Error (ppm)	Limit (ppm)	P/F
NV	806.375	806.3150	806.4195	806.36725	9.61	≤20	modulation
	806.750	806.6795	806.8055	806.74250	9.30	≤20	modulation
	807.125	807.0545	807.1805	807.11750	9.29	≤20	modulation
	808.125	808.0650	808.1695	808.11725	9.59	≤20	modulation
	808.625	808.5650	808.6695	808.61725	9.58	≤20	modulation
	809.125	809.0650	809.1695	809.11725	9.58	≤20	modulation

Test Data of Frequency Error							
Test Power	Test Frequency (MHz)	FL (MHz)	FH (MHz)	(FL+FH)/2 (MHz)	Frequency Error (ppm)	Limit (ppm)	P/F
HV	806.375	806.3150	806.4195	806.36725	9.61	≤20	modulation
	806.750	806.6795	806.8055	806.74250	9.30	≤20	modulation
	807.125	807.0545	807.1805	807.11750	9.29	≤20	modulation
	808.125	808.0650	808.1695	808.11725	9.59	≤20	modulation
	808.625	808.5650	808.6695	808.61725	9.58	≤20	modulation
	809.125	809.0650	809.1695	809.11725	9.58	≤20	modulation

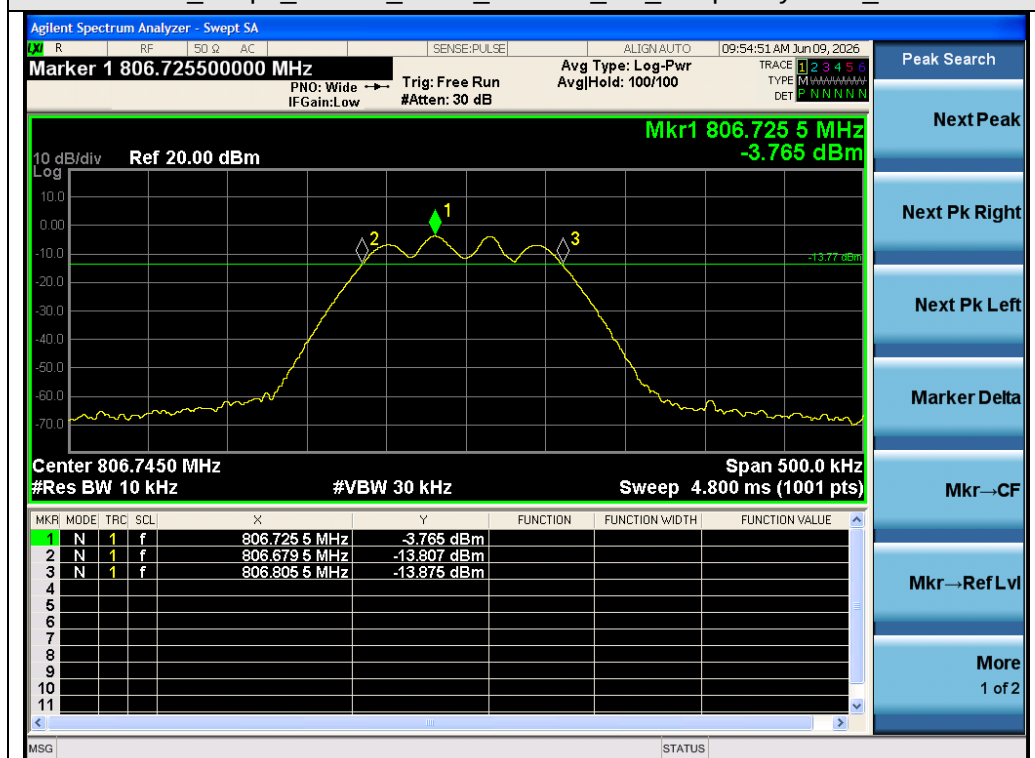
Test Data of Frequency Error							
Test Power	Test Frequency (MHz)	FL (MHz)	FH (MHz)	(FL+FH)/2 (MHz)	Frequency Error (ppm)	Limit (ppm)	P/F
LV	806.375	806.3150	806.4190	806.36700	9.92	≤20	modulation
	806.750	806.6795	806.8055	806.74250	9.30	≤20	modulation
	807.125	807.0545	807.1805	807.11750	9.29	≤20	modulation
	808.125	808.0655	808.1695	808.11750	9.28	≤20	modulation
	808.625	808.5650	808.6695	808.61725	9.58	≤20	modulation
	809.125	809.0650	809.1695	809.11725	9.58	≤20	modulation

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Test Graphs of Frequency Error

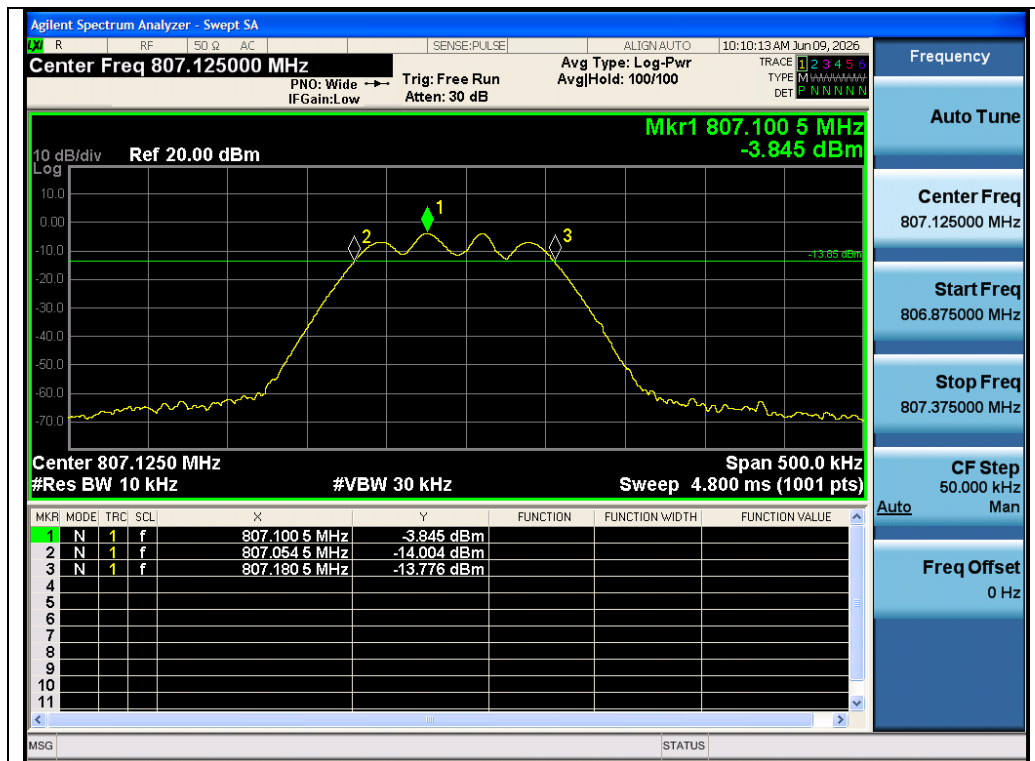


Test_Graph_Unmod_ANT1_806.375_NA_Frequency Error_NV

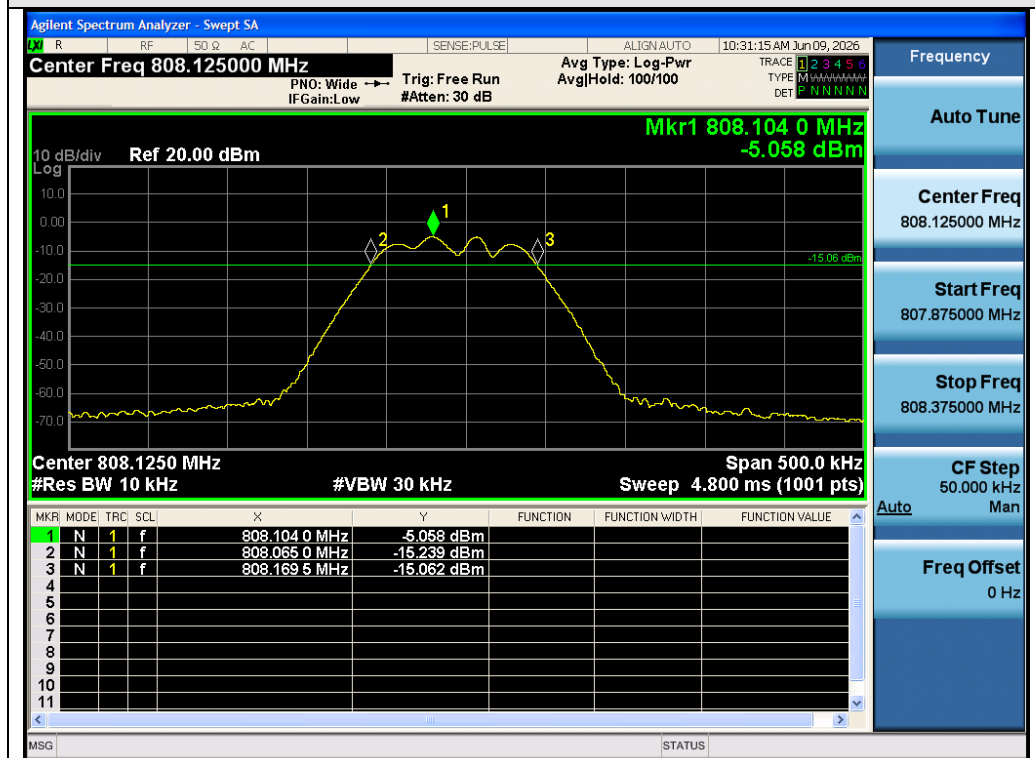


Test_Graph_Unmod_ANT1_806.750_NA_Frequency Error_NV

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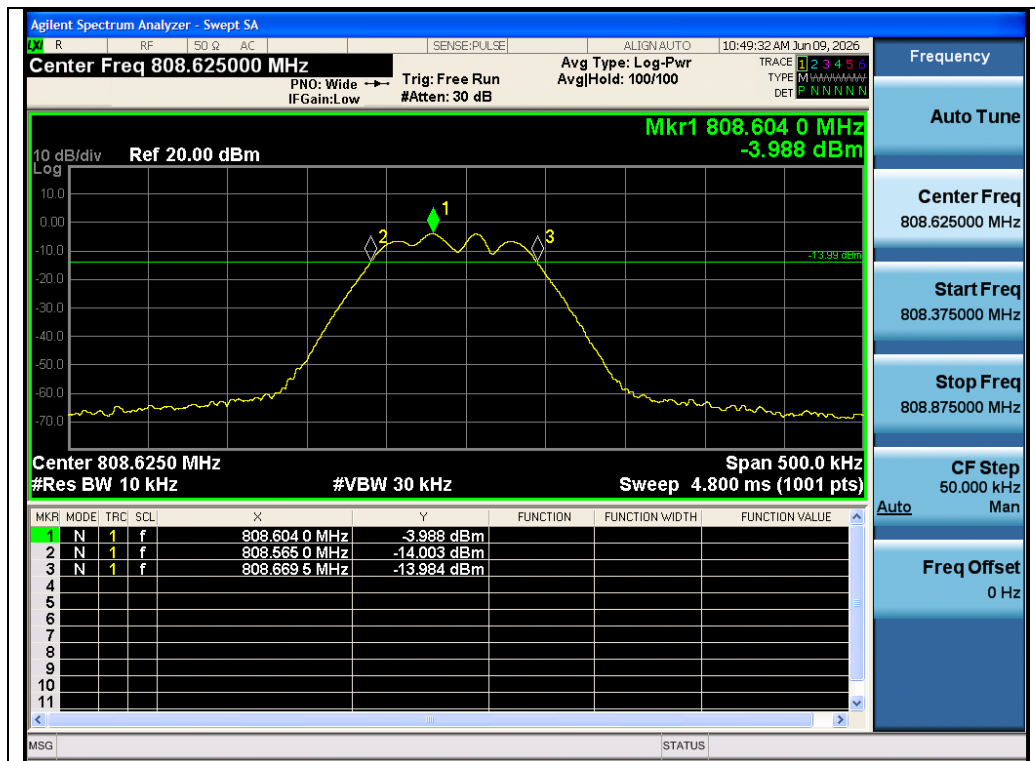


Test_Graph_Unmod_ANT1_807.125_NA_Frequency Error_NV

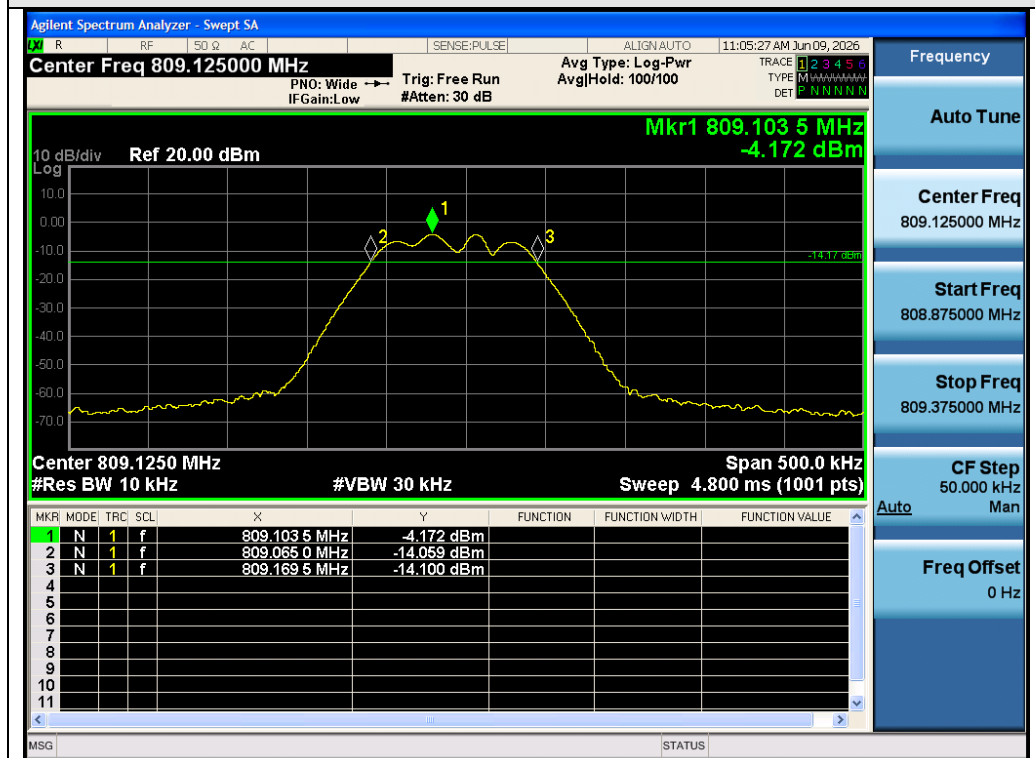


Test_Graph_Unmod_ANT1_808.125_NA_Frequency Error_NV

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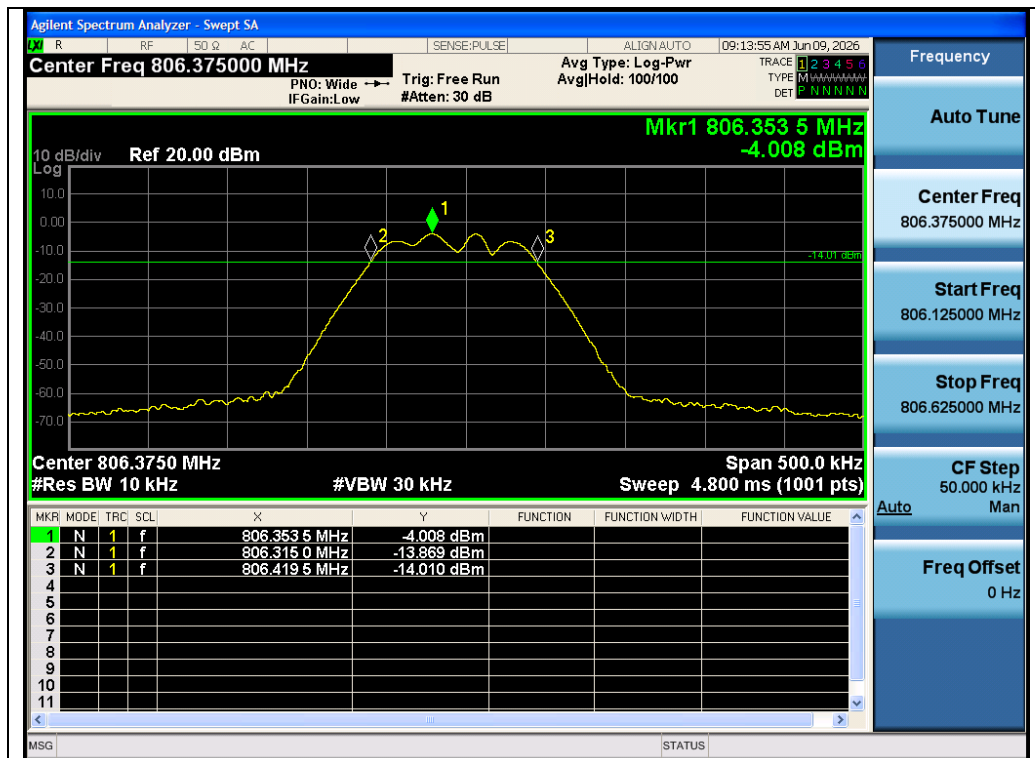


Test_Graph_Unmod_ANT1_808.625_NA_Frequency Error_NV

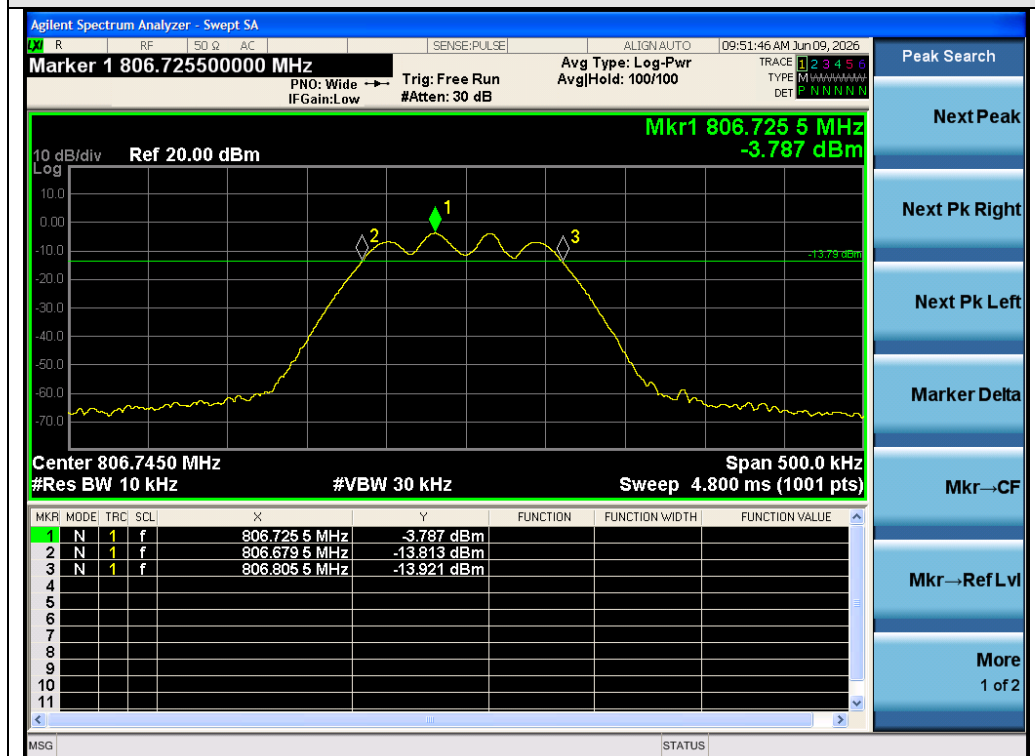


Test_Graph_Unmod_ANT1_809.125_NA_Frequency Error_NV

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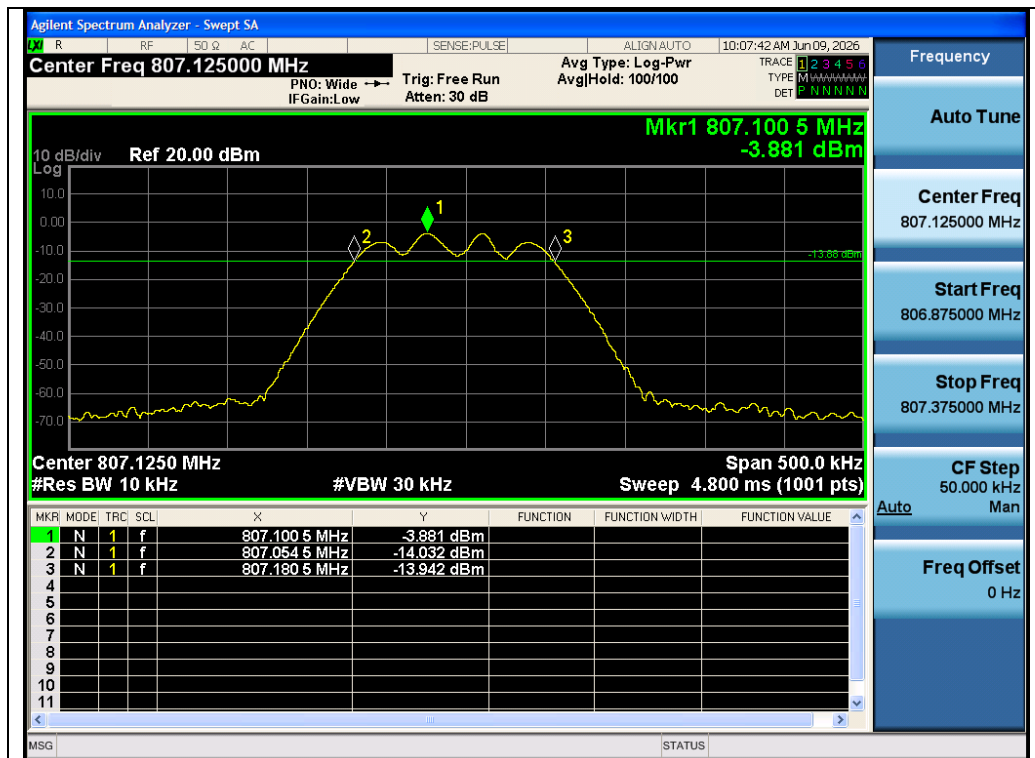


Test_Graph_Unmod_ANT1_806.375_NA_Frequency Error_HV

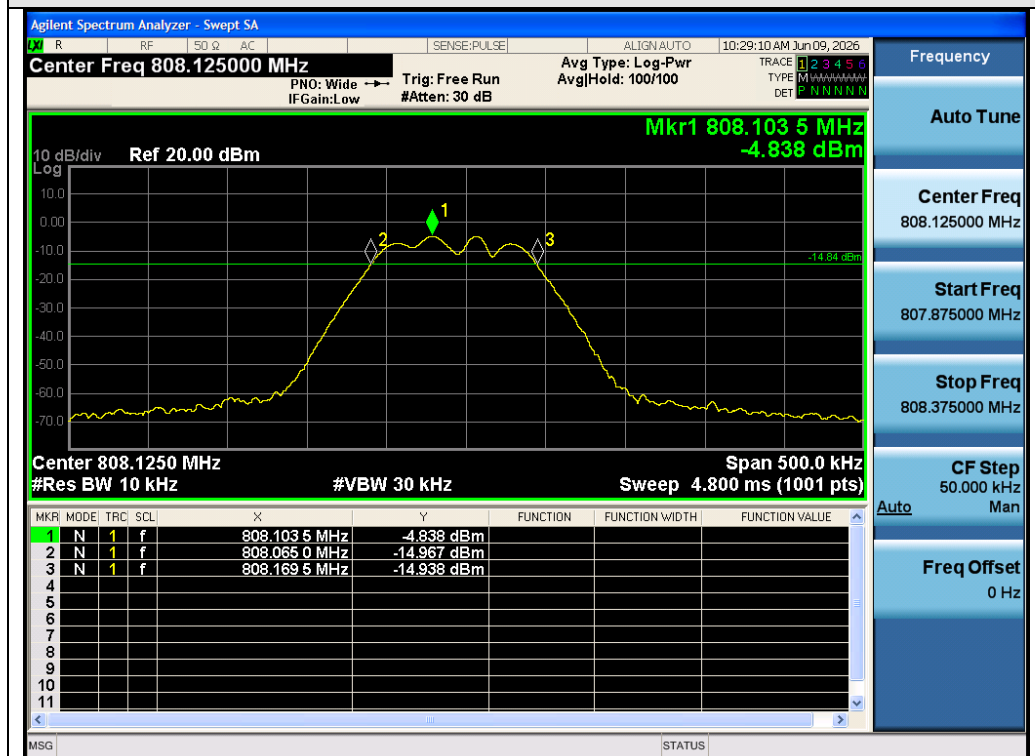


Test_Graph_Unmod_ANT1_806.750_NA_Frequency Error_HV

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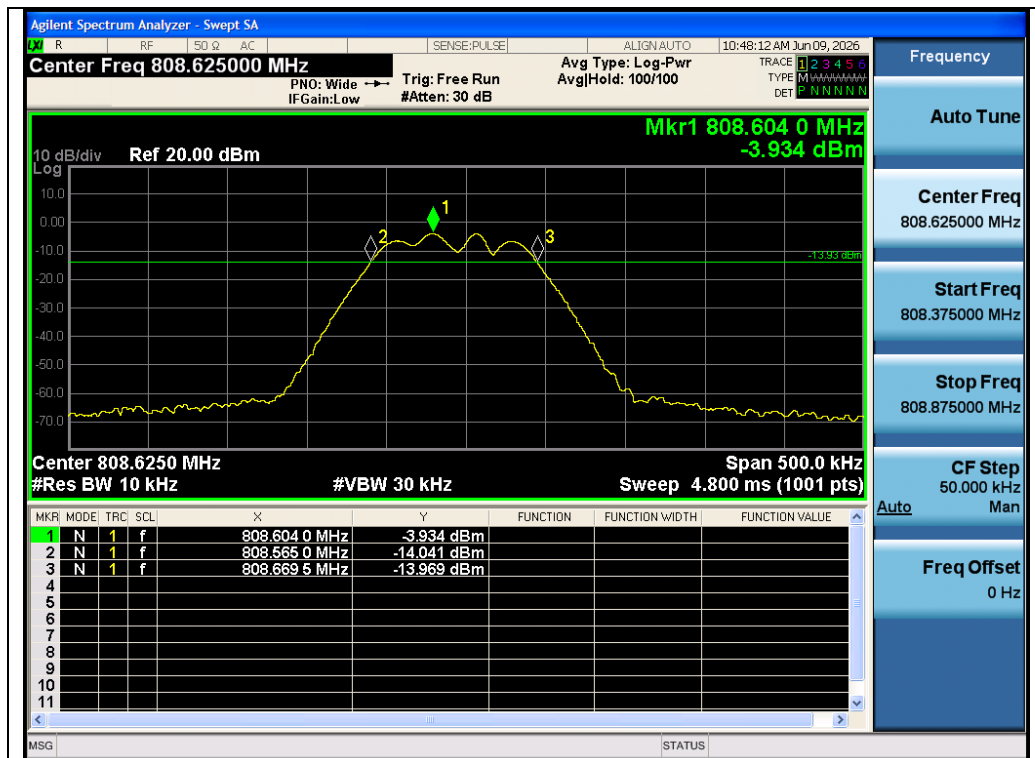


Test_Graph_Unmod_ANT1_807.125_NA_Frequency Error_HV

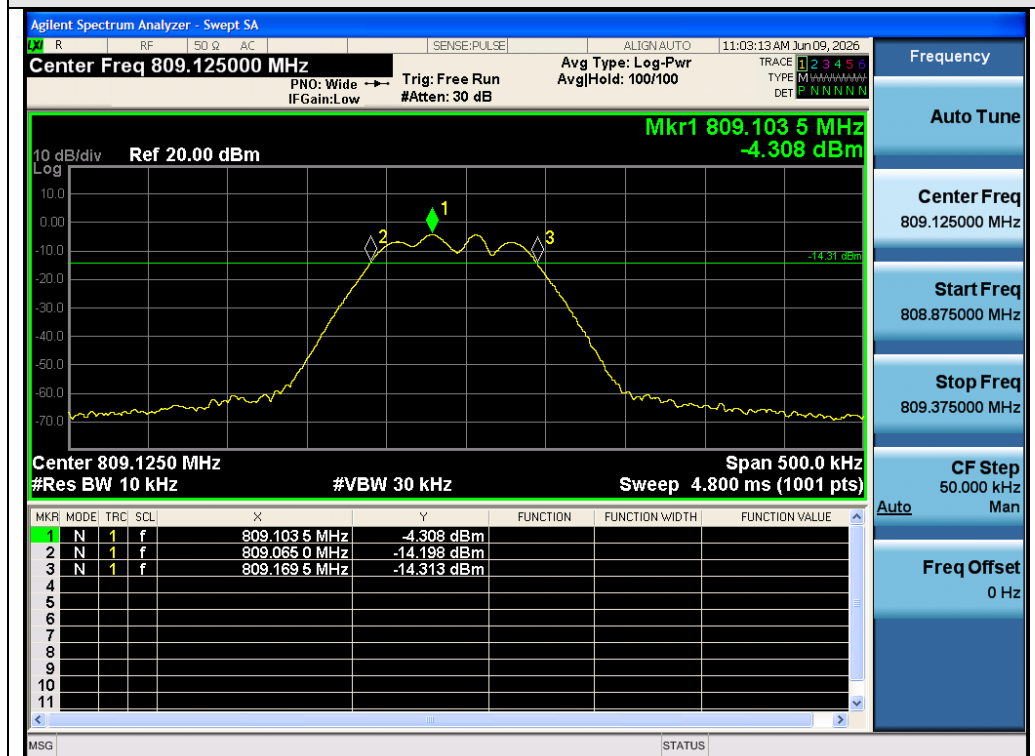


Test_Graph_Unmod_ANT1_808.125_NA_Frequency Error_HV

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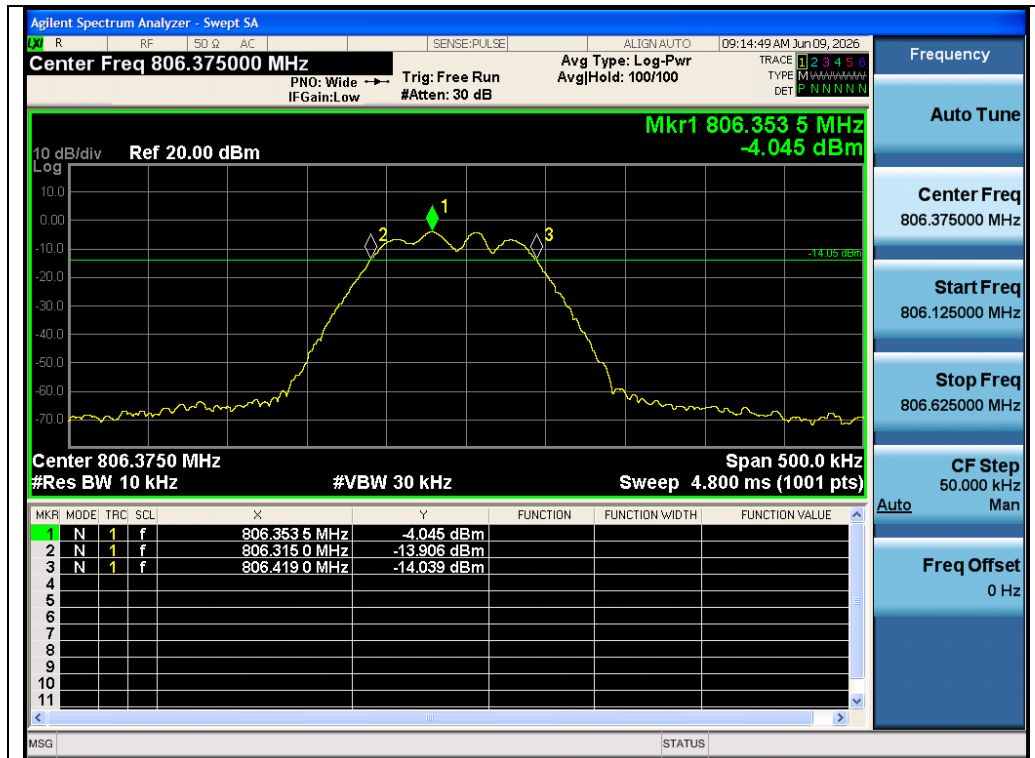


Test_Graph_Unmod_ANT1_808.625_NA_Frequency Error_HV

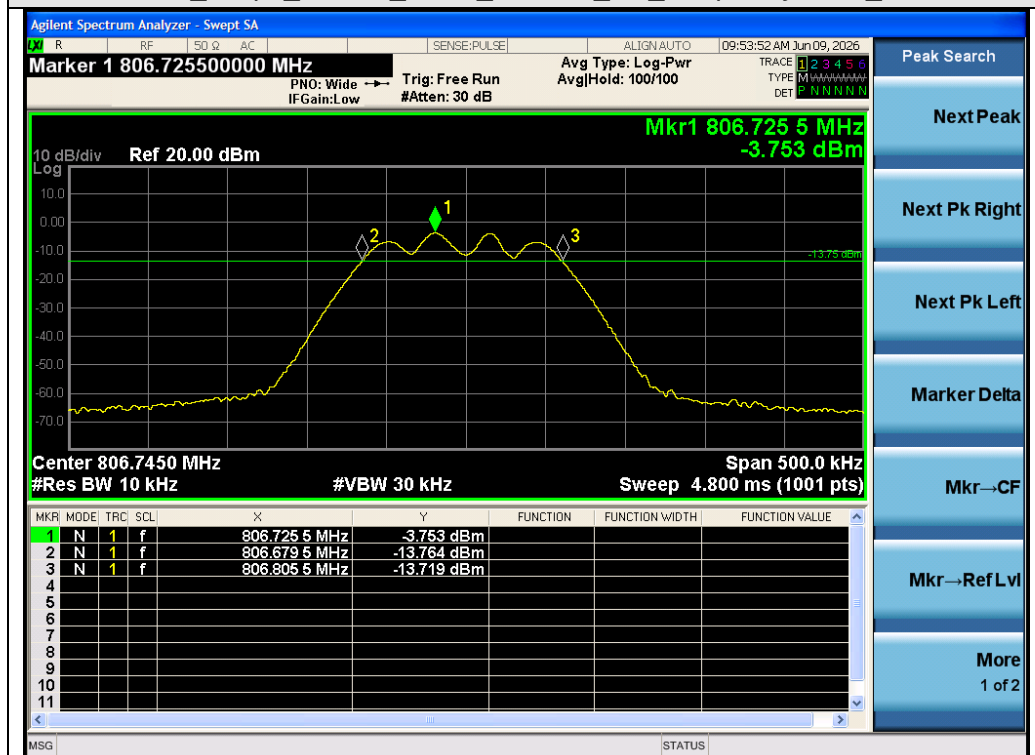


Test_Graph_Unmod_ANT1_809.125_NA_Frequency Error_HV

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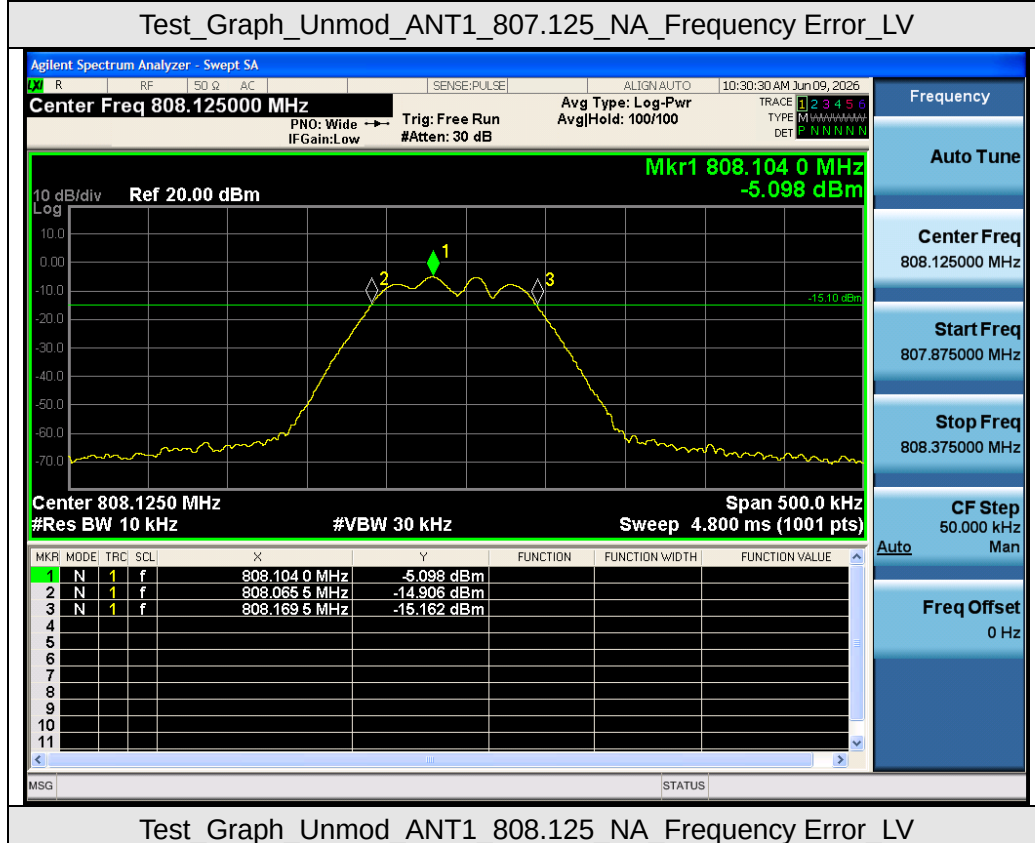
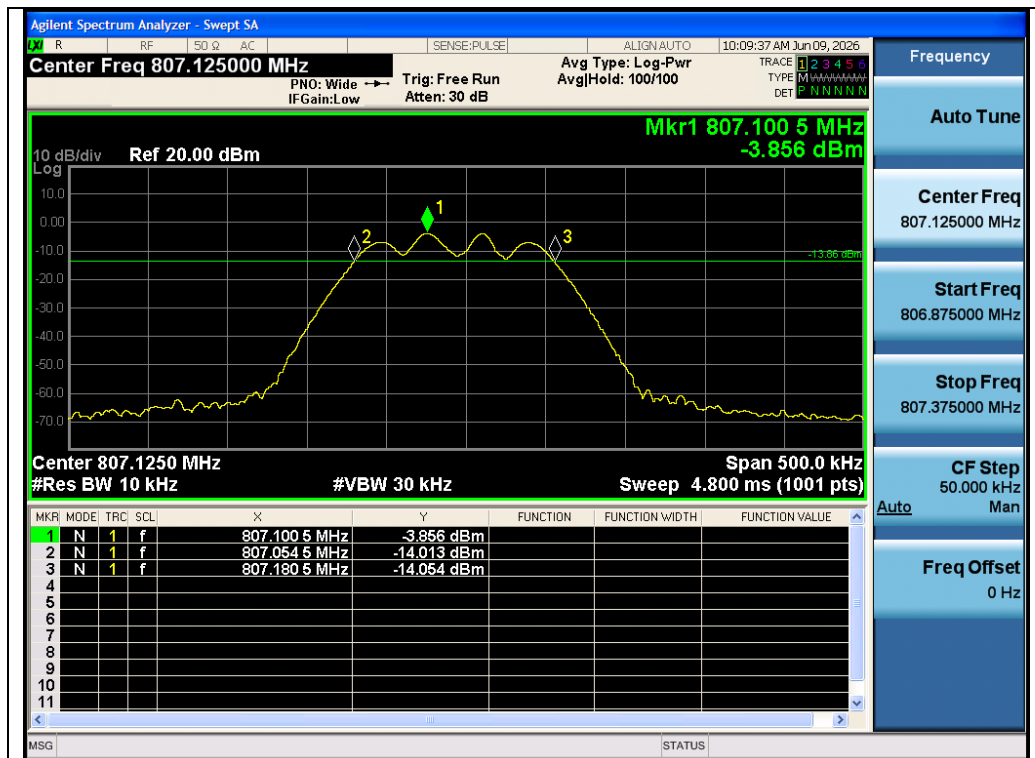


Test_Graph_Unmod_ANT1_806.375_NA_Frequency Error_LV

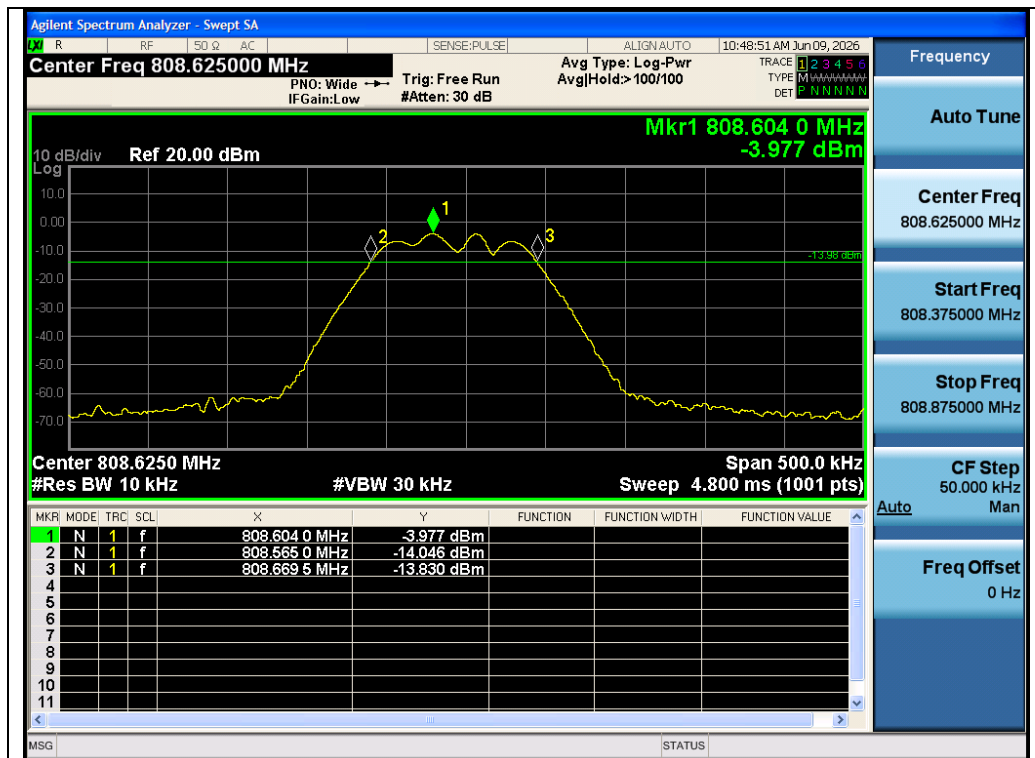


Test_Graph_Unmod_ANT1_806.750_NA_Frequency Error_LV

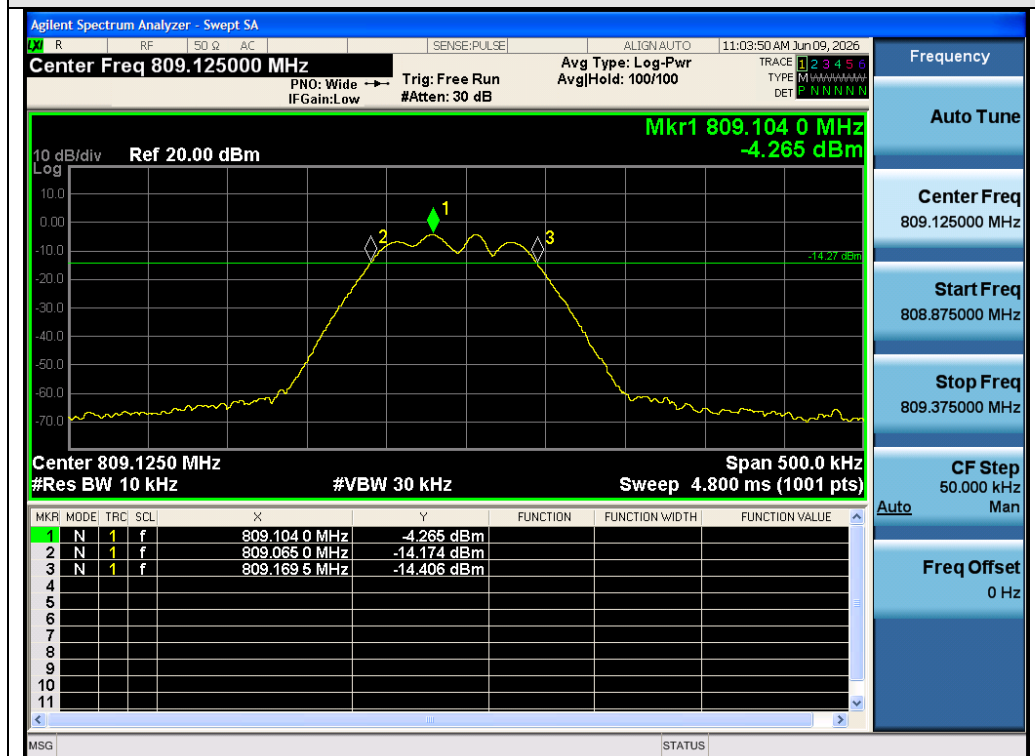
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Test_Graph_Unmod_ANT1_808.625_NA_Frequency Error_LV



Test_Graph_Unmod_ANT1_809.125_NA_Frequency Error_LV

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5.2. Occupied Bandwidth Measurement

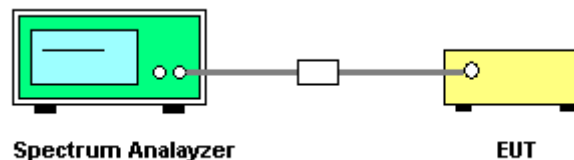
Test Limit

Item	Limits
Occupied Band Width	$\leq 192\text{kHz}$

Test Procedure

1. Setting of SA is following as: RB: Auto / VB:Auto / AT: 30dB Ref: 20dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize
3. SA set to 99% of occupied bandwidth to measure Bandwidth

Test Setup



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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

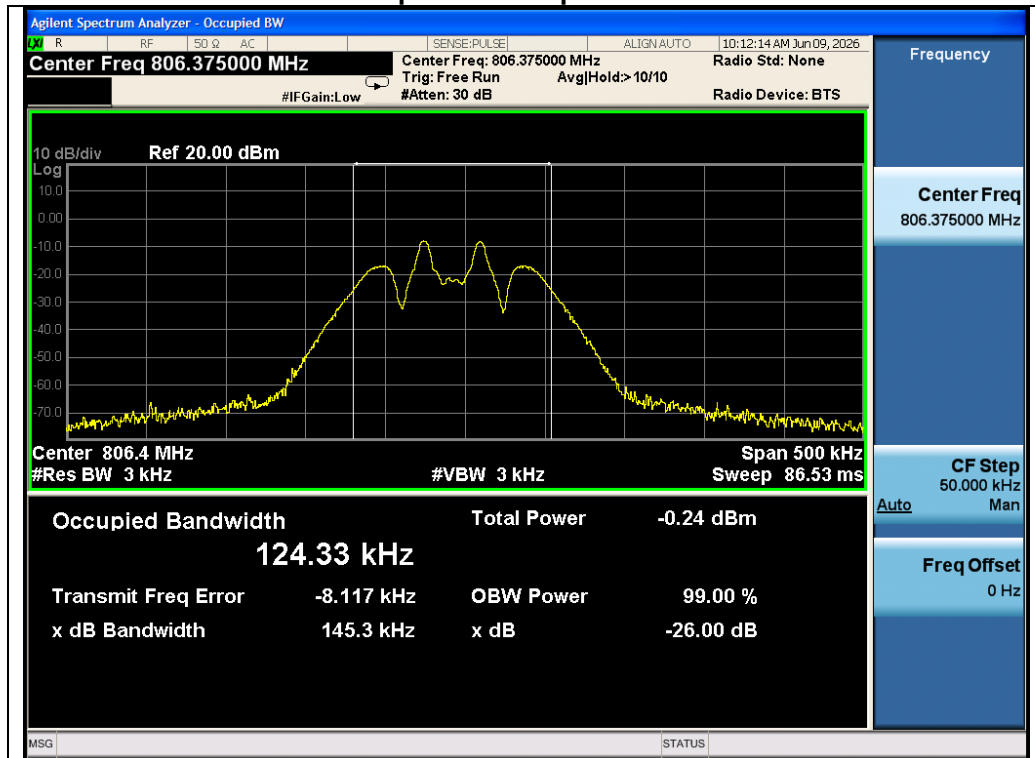
Test Result

Test Temperature	21.6 °C	Relative Humidity	58.9 %
Test Engineer	Vicky	Testing Time	2026-06-09

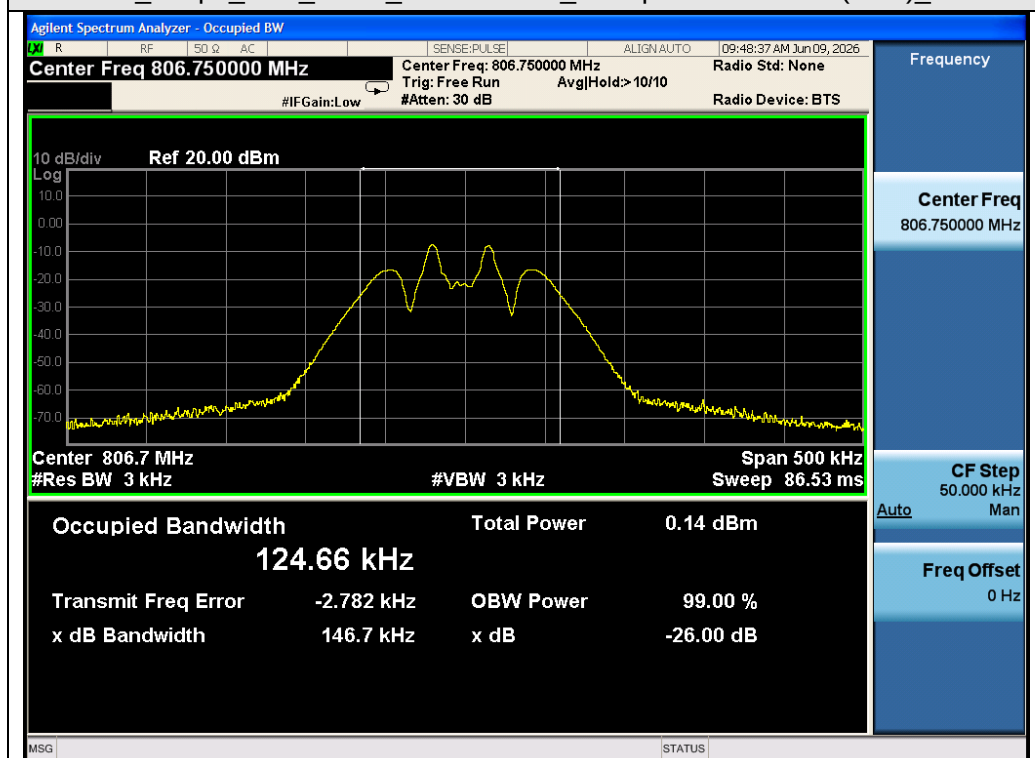
Test Data of Occupied Bandwidth						
Test Mode	Test Frequency (MHz)	Occupied Bandwidth (kHz)			Limit	P/F
		NV	LV	HV		
FSK	806.375	124.33	124.55	124.65	<192	Pass
	806.750	124.66	124.57	124.63	<192	Pass
	807.125	124.36	124.65	124.45	<192	Pass
	808.125	98.376	98.469	98.496	<192	Pass
	808.625	102.17	102.08	102.03	<192	Pass
	809.125	101.82	101.90	101.92	<192	Pass

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Test Graphs of Occupied Bandwidth

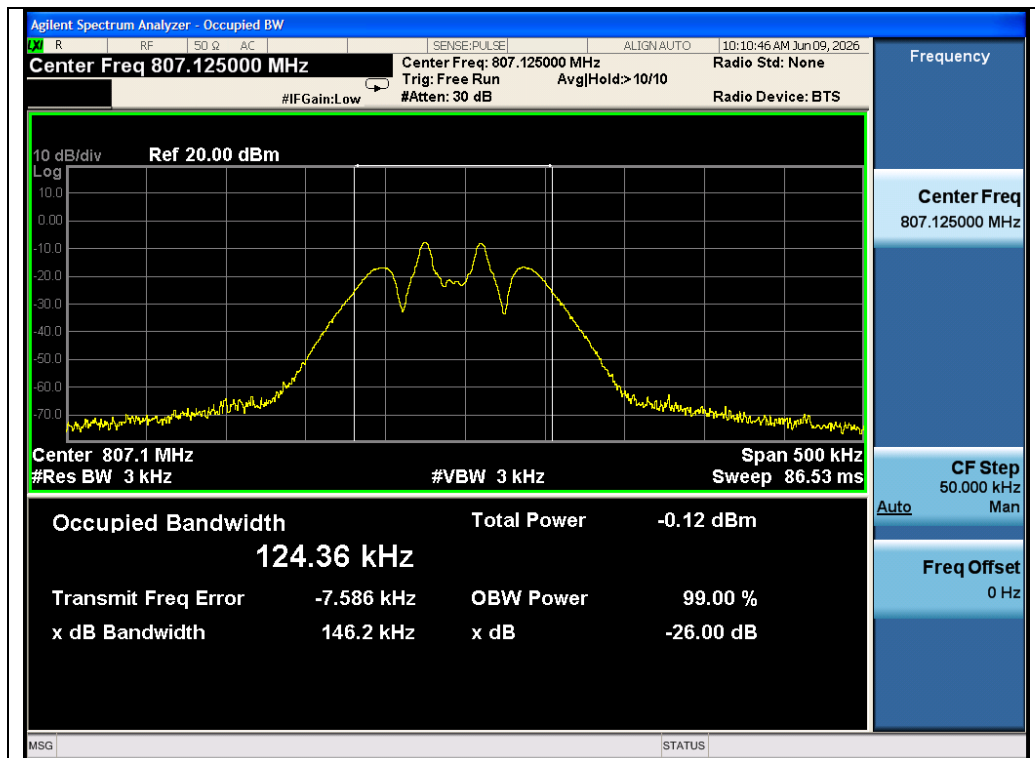


Test_Graph_FSK_ANT1_806.375MHz_Occupied Bandwidth (99%)_NV

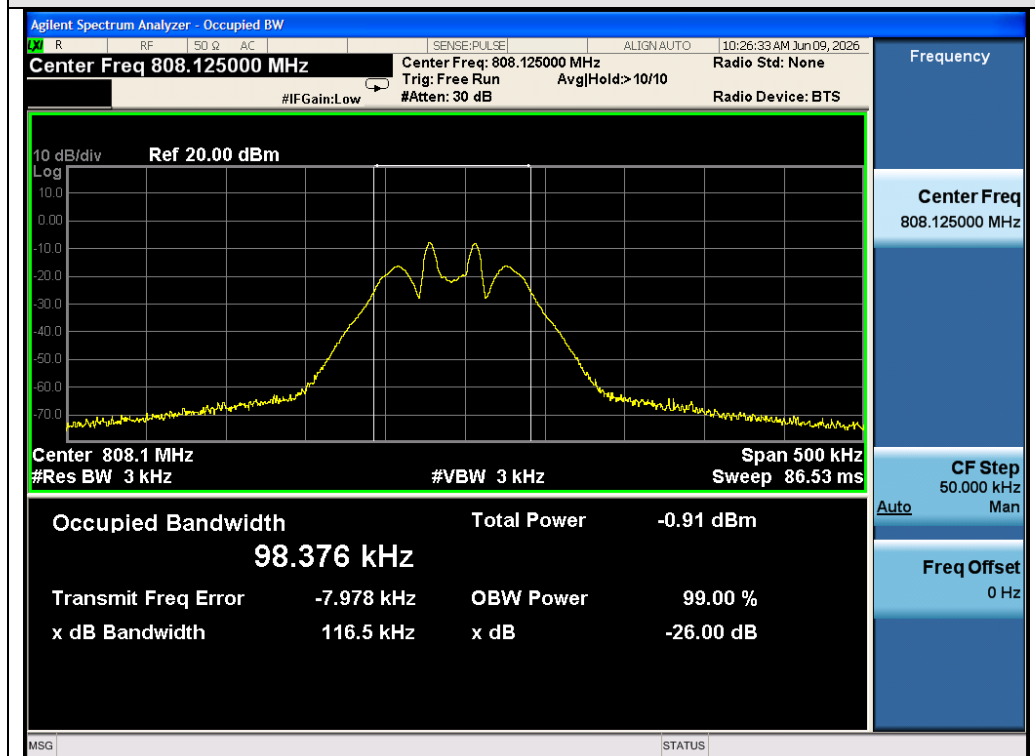


Test_Graph_FSK_ANT1_806.750MHz_Occupied Bandwidth (99%)_NV

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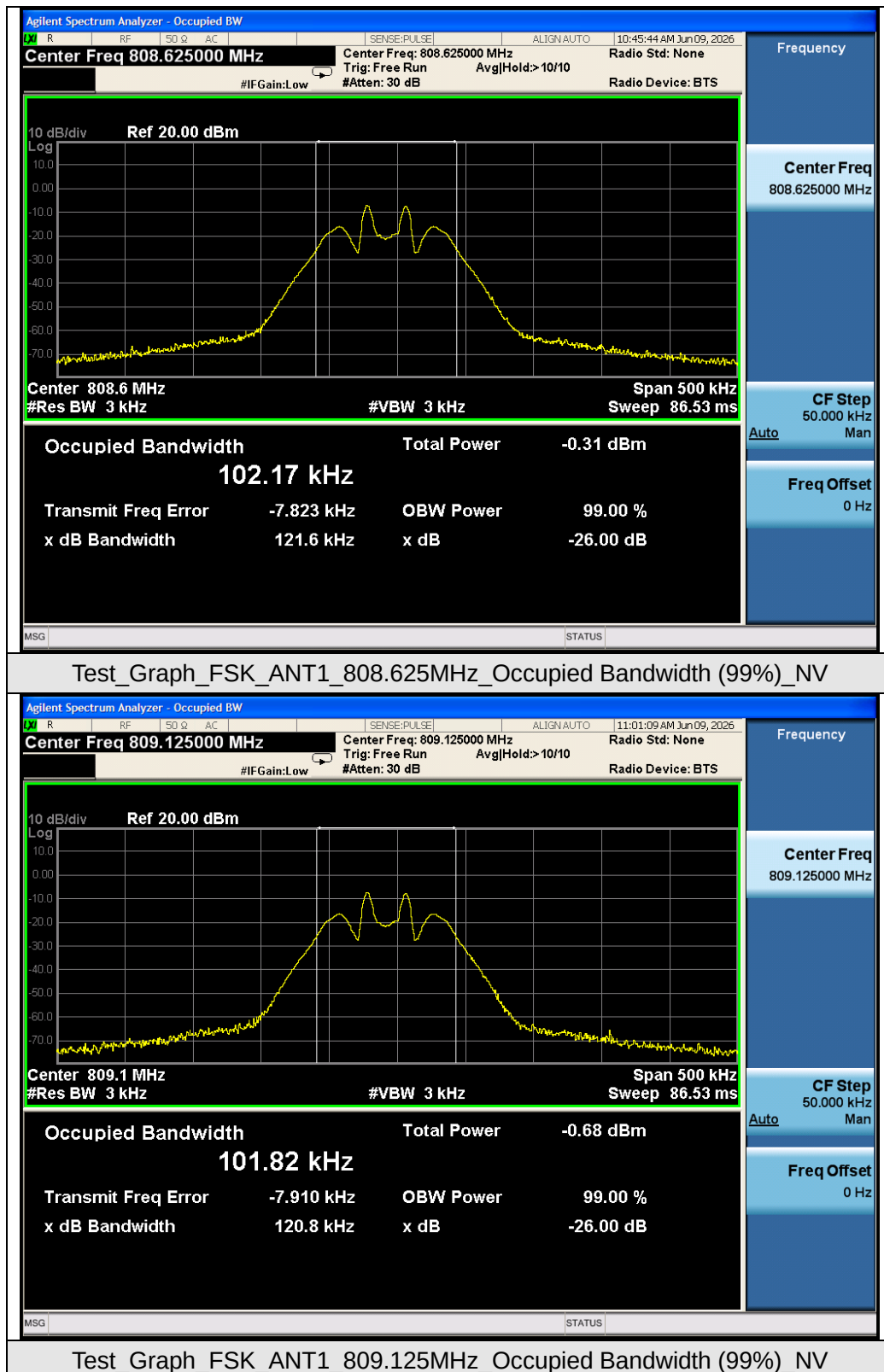


Test_Graph_FSK_ANT1_807.125MHz_Occupied Bandwidth (99%)_NV

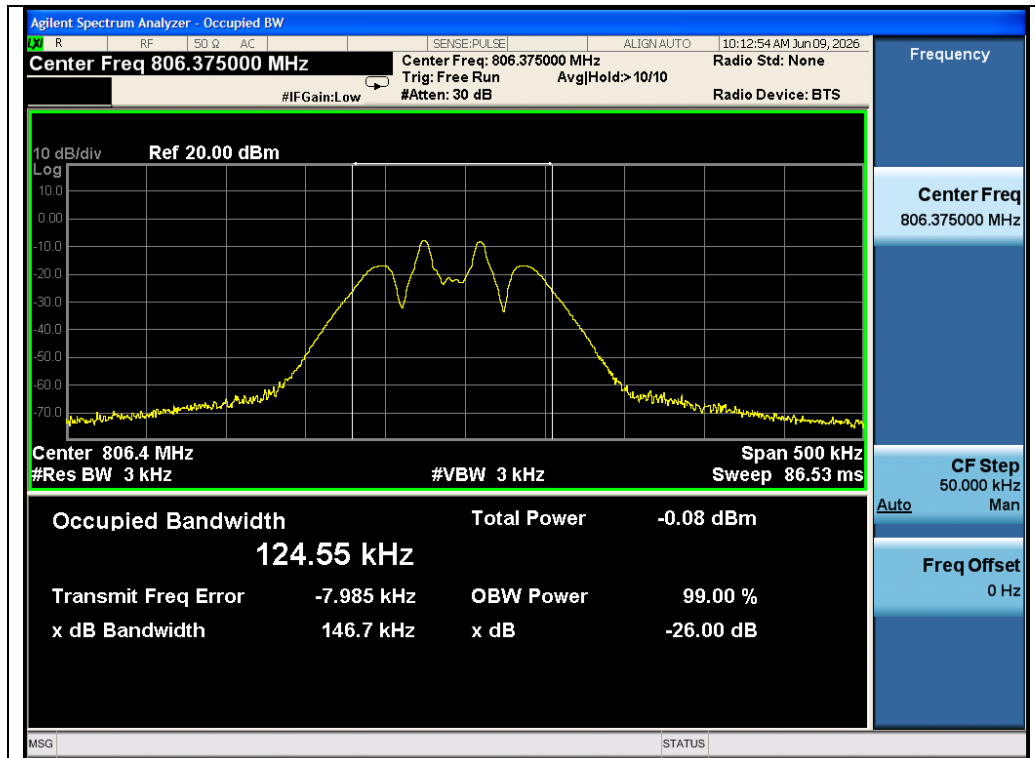


Test_Graph_FSK_ANT1_808.125MHz_Occupied Bandwidth (99%)_NV

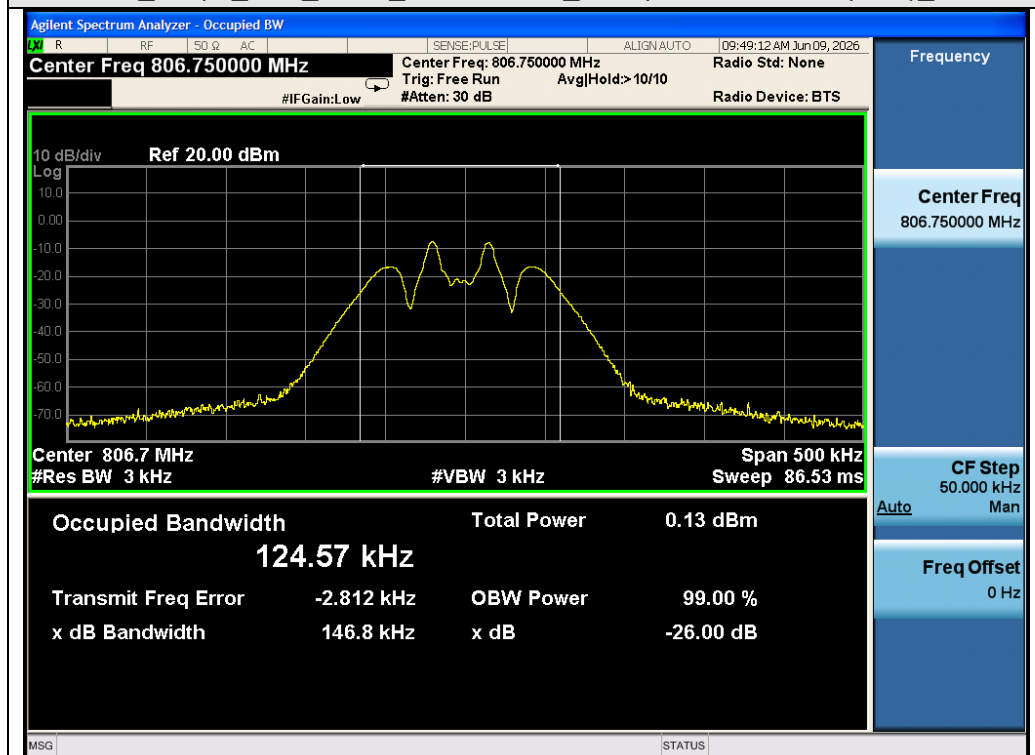
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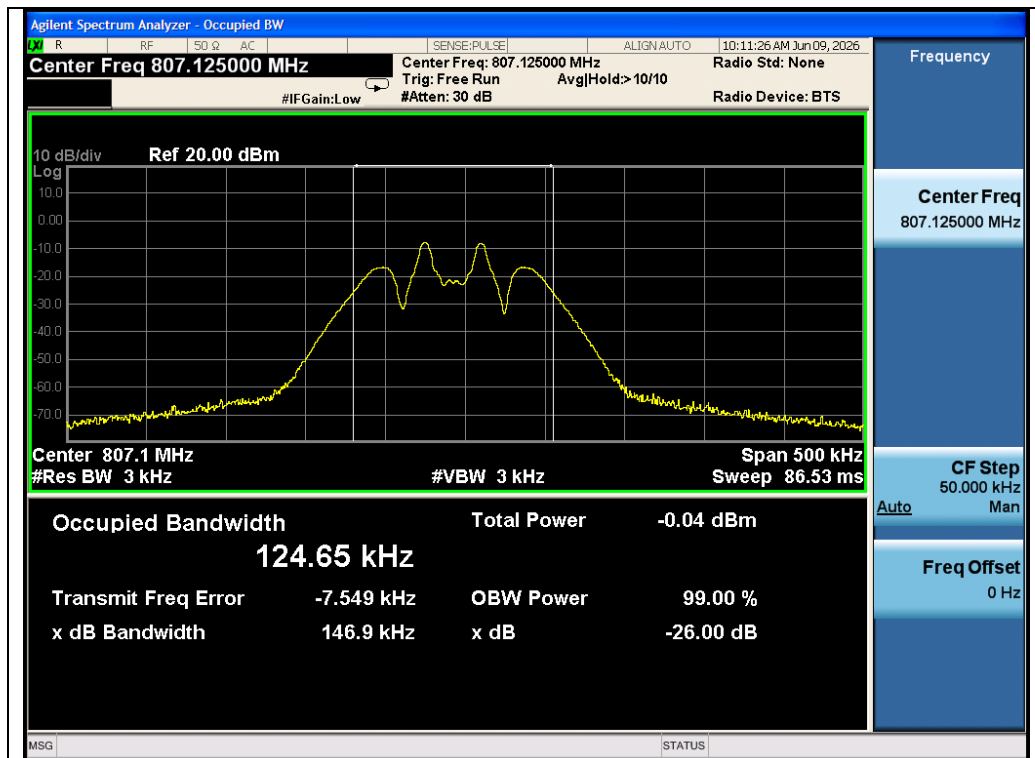


Test_Graph_FSK_ANT1_806.375MHz_Occupied Bandwidth (99%)_LV

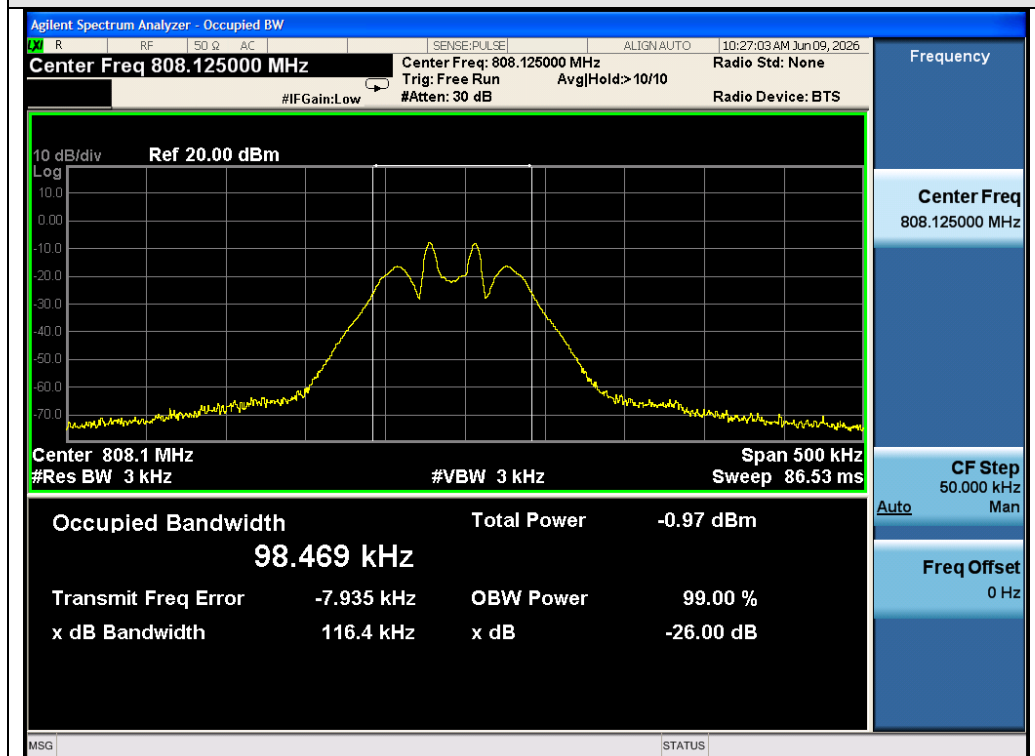


Test_Graph_FSK_ANT1_806.750MHz_Occupied Bandwidth (99%)_LV

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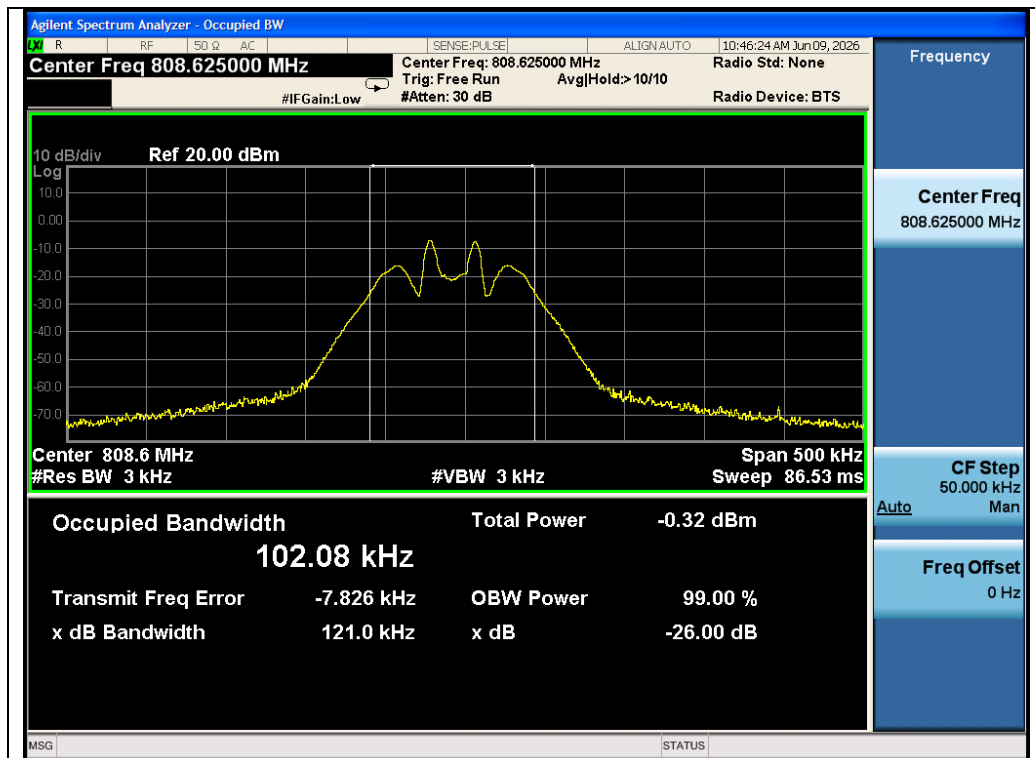


Test_Graph_FSK_ANT1_807.125MHz_Occupied Bandwidth (99%)_LV

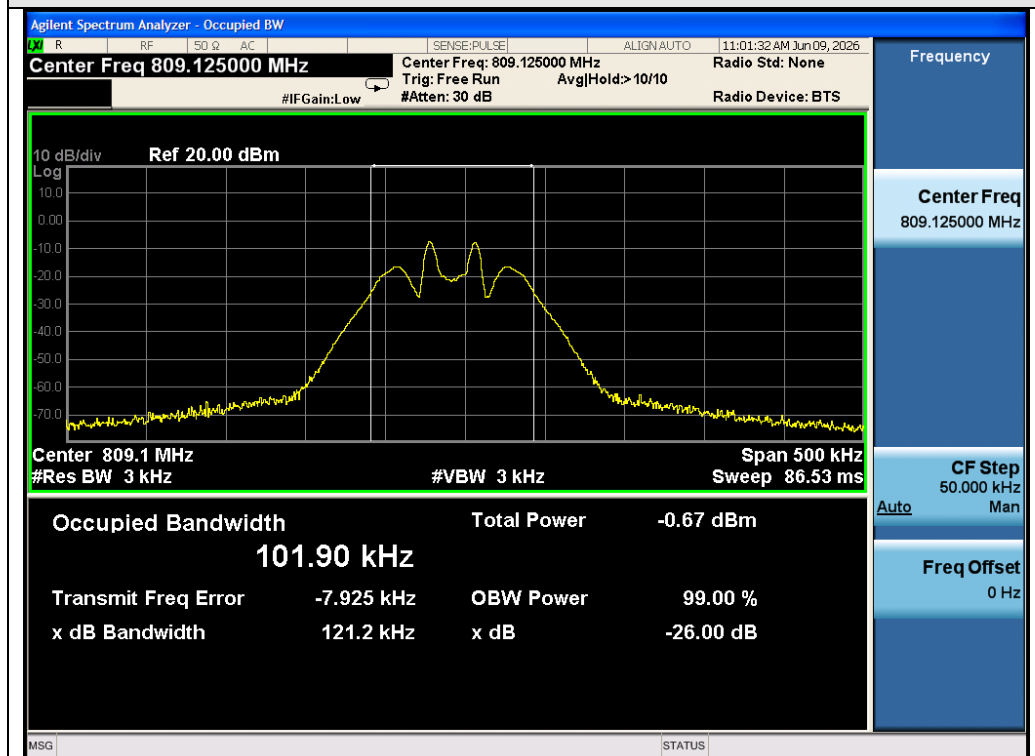


Test_Graph_FSK_ANT1_808.125MHz_Occupied Bandwidth (99%)_LV

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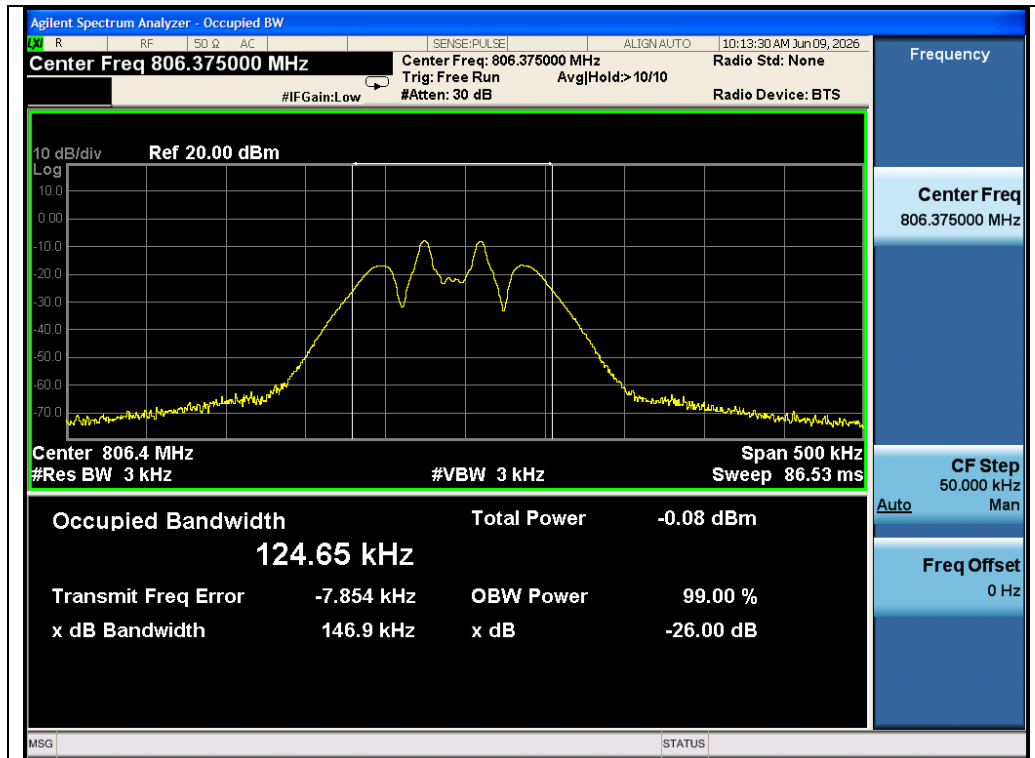


Test_Graph_FSK_ANT1_808.625MHz_Occupied Bandwidth (99%)_LV

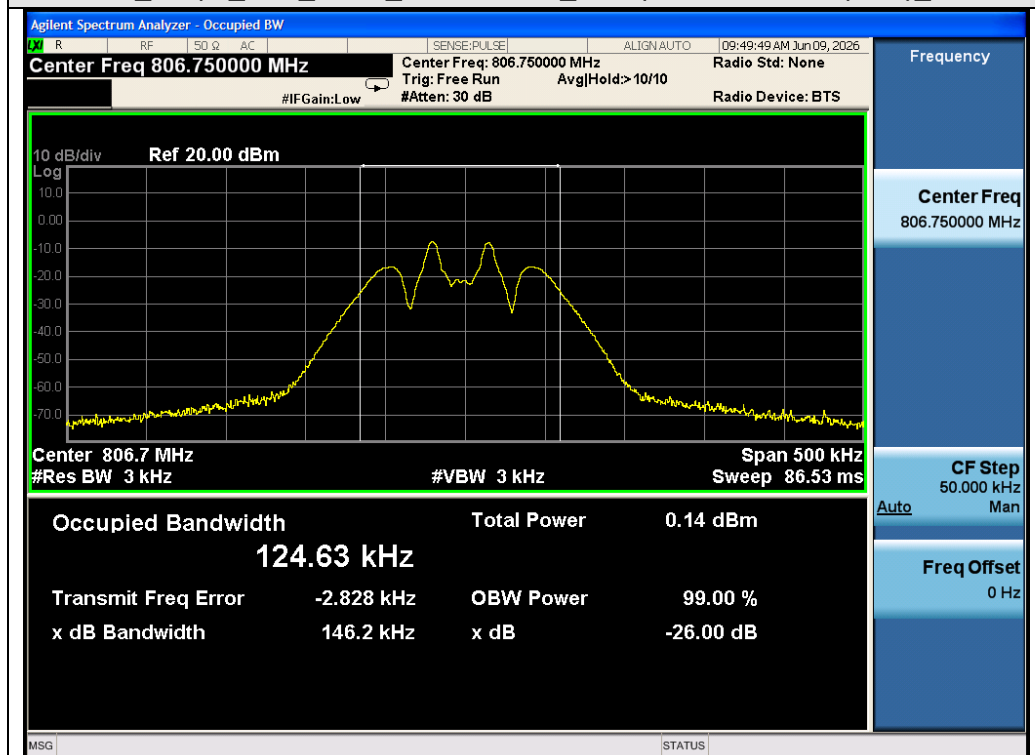


Test_Graph_FSK_ANT1_809.125MHz_Occupied Bandwidth (99%)_LV

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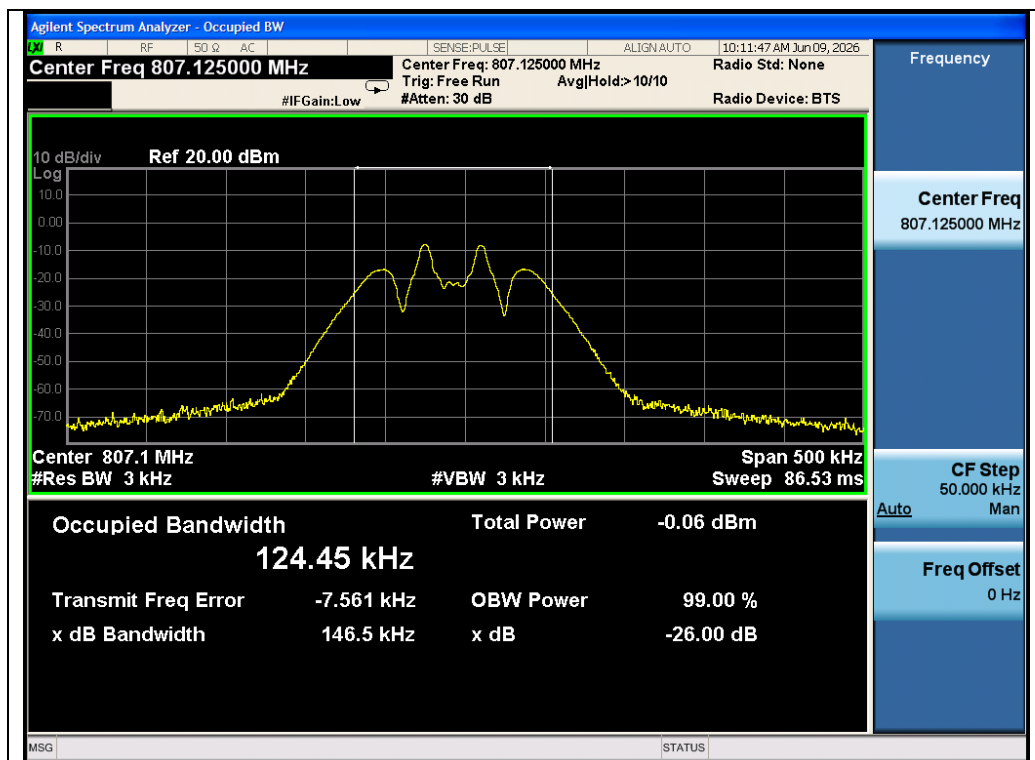


Test_Graph_FSK_ANT1_806.375MHz_Occupied Bandwidth (99%)_HV

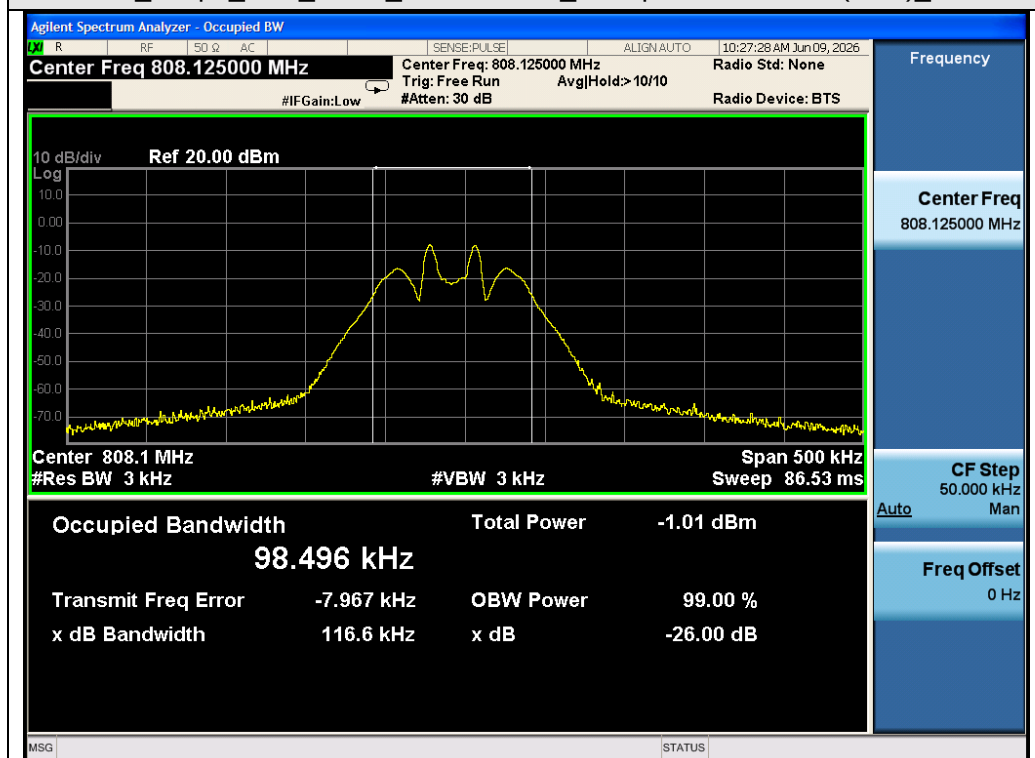


Test_Graph_FSK_ANT1_806.750MHz_Occupied Bandwidth (99%)_HV

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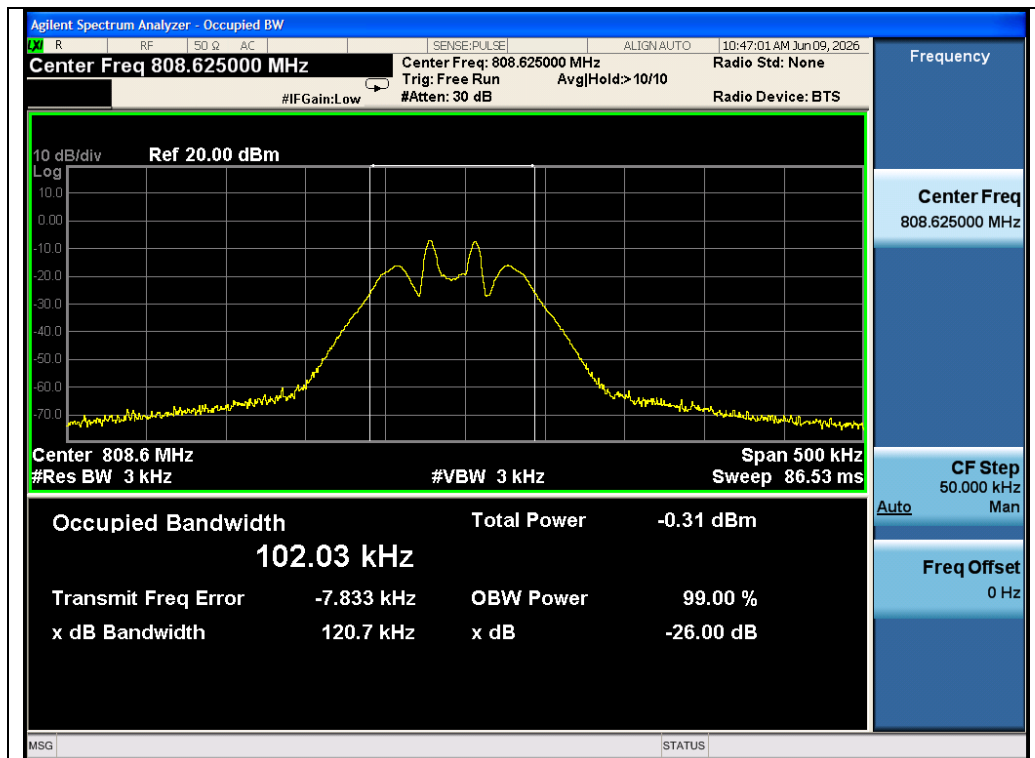


Test_Graph_FSK_ANT1_807.125MHz_Occupied Bandwidth (99%)_HV

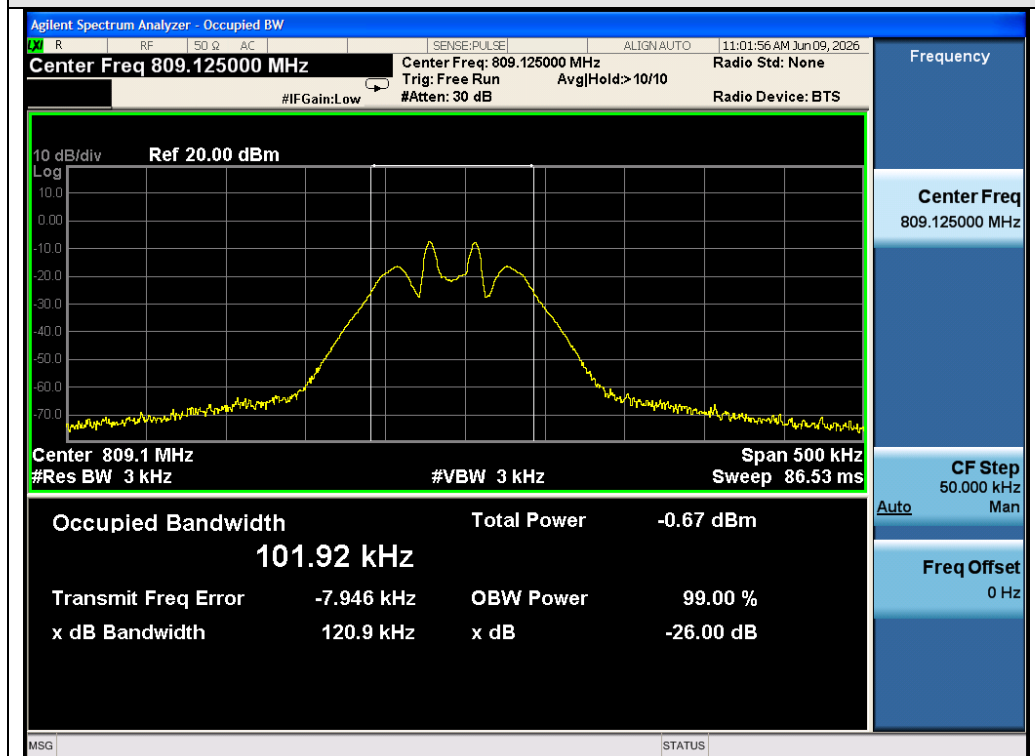


Test_Graph_FSK_ANT1_808.125MHz_Occupied Bandwidth (99%)_HV

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Test_Graph_FSK_ANT1_808.625MHz_Occupied Bandwidth (99%)_HV



Test_Graph_FSK_ANT1_809.125MHz_Occupied Bandwidth (99%)_HV

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5.3. Unwanted Emission Intensity Measurement

Test Limit

Test Item	Limits
TX Spurious Emission(806.375~809.125MHz)	$\leq 2.5 \mu\text{W}$ ($f \leq 806\text{MHz}$)
	$\leq 2.5 \mu\text{W}$ ($809.750\text{MHz} < f \leq 1000\text{MHz}$)
	$\leq 2.5 \mu\text{W}$ ($1000\text{MHz} \leq f < 12750\text{MHz}$)

Test Procedure

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

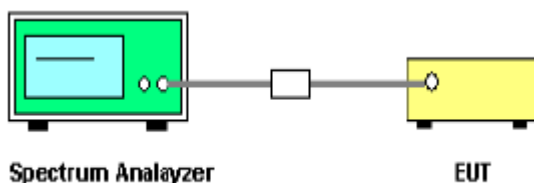
Spectrum Parameter	Setting
Attenuation	Auto
RBW/ VBW	1 MHz for above 1GHz 100KHz for Below 1GHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- EUT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA is following as: Below 1GHz RB:100KHz / VB:100KHz Above 1GHz RB:1MHz / VB:1MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto Sweep Mode: Continuous sweep / Detect mode: Positive peak Trace mode: Max hold
- Setting of SA is following as 30MHz and stop frequency 806.000MHz Then to mark peak reading value + cable loss shall be less than 0.25μW.
- Setting of SA is following as 809.750MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than 2.5μW.
- SA adjusted to start frequency 1000MHz and stop frequency 12750MHz Then to mark peak reading value + cable loss shall be less than 2.5μW
- If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.
- Convert from dBm to μW: $P(\mu\text{W}) = 1000 * 10^{[P(\text{dBm})/10]}$
- Convert a measurement Value $P_{100\text{kHz}}$ at 100kHz RBW to $P_{1\text{MHz}}$ at 1MHz, use the following formula:

$$P_{1\text{MHz}} = P_{100\text{kHz}} + 10 \cdot \log_{10} \left(\frac{RBW_{1\text{MHz}}}{RBW_{100\text{kHz}}} \right)$$

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Test Setup



Test Result

Test Temperature	22.8 °C	Relative Humidity	56.9 %
Test Engineer	Vicky	Testing Time	2026-06-09

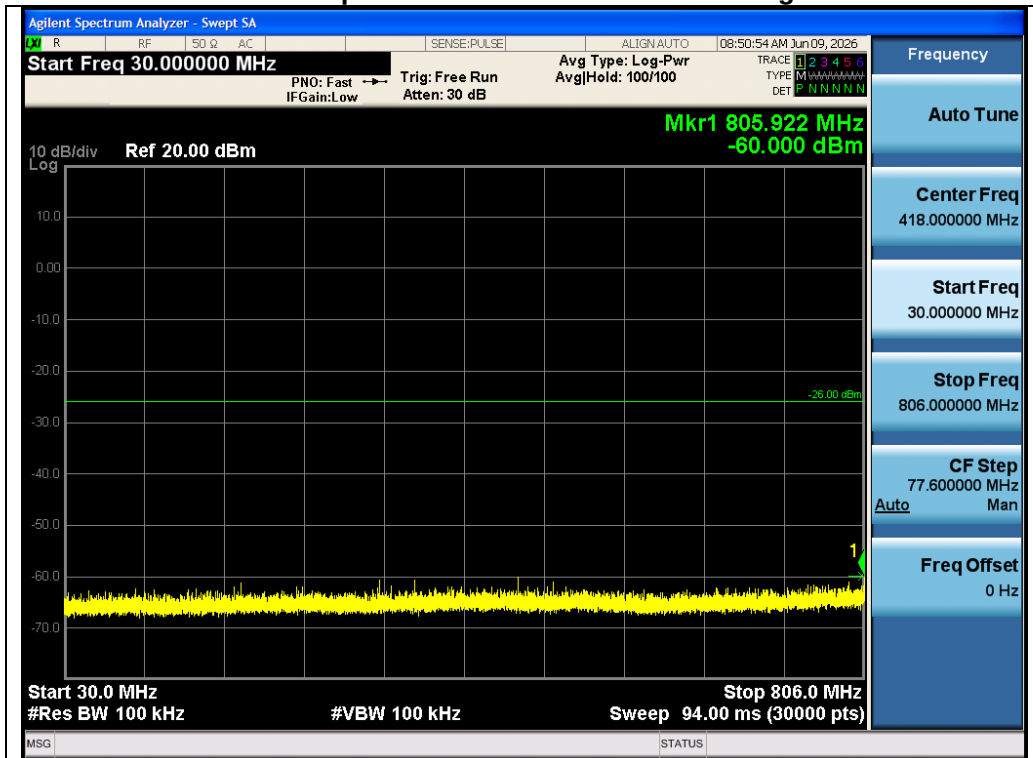
Test Data of Unwanted Emission Strength								
Voltage	Mode	Channel (MHz)	Frequency Range (MHz)	Frequency (MHz)	Result (dBm)	Result (μW)	Limit (μW)	P/F
NV	TX	806.375	30~806	805.922	-60.000	0.001	2.5	Pass
NV	TX	806.375	809.75-1000	982.947	-61.368	0.001	2.5	Pass
NV	TX	806.375	1000-127500	1613.4	-28.107	1.546	2.5	Pass
LV	TX	806.375	30~806	335.987	-60.094	0.001	2.5	Pass
LV	TX	806.375	809.75-1000	919.902	-60.161	0.001	2.5	Pass
LV	TX	806.375	1000-127500	1613.4	-28.084	1.555	2.5	Pass
HV	TX	806.375	30~806	335.987	-59.603	0.001	2.5	Pass
HV	TX	806.375	809.75-1000	942.004	-61.527	0.001	2.5	Pass
HV	TX	806.375	1000-127500	1613.4	-28.129	1.539	2.5	Pass
NV	TX	806.750	30~806	504.048	-59.860	0.001	2.5	Pass
NV	TX	806.750	809.75-1000	830.367	-62.145	0.001	2.5	Pass
NV	TX	806.750	1000-127500	1614.2	-27.585	1.744	2.5	Pass
LV	TX	806.750	30~806	503.971	-60.051	0.001	2.5	Pass
LV	TX	806.750	809.75-1000	962.500	-61.950	0.001	2.5	Pass
LV	TX	806.750	1000-127500	1614.2	-27.665	1.712	2.5	Pass
HV	TX	806.750	30~806	335.987	-60.050	0.001	2.5	Pass
HV	TX	806.750	809.75-1000	894.363	-62.097	0.001	2.5	Pass
HV	TX	806.750	1000-127500	1614.2	-27.610	1.734	2.5	Pass
NV	TX	807.125	30~806	471.145	-60.506	0.001	2.5	Pass
NV	TX	807.125	809.75-1000	925.375	-61.747	0.001	2.5	Pass
NV	TX	807.125	1000-127500	1614.9	-28.014	1.580	2.5	Pass
LV	TX	807.125	30~806	748.936	-60.548	0.001	2.5	Pass
LV	TX	807.125	809.75-1000	815.781	-61.377	0.001	2.5	Pass
LV	TX	807.125	1000-127500	1614.9	-27.967	1.597	2.5	Pass
HV	TX	807.125	30~806	471.119	-59.996	0.001	2.5	Pass

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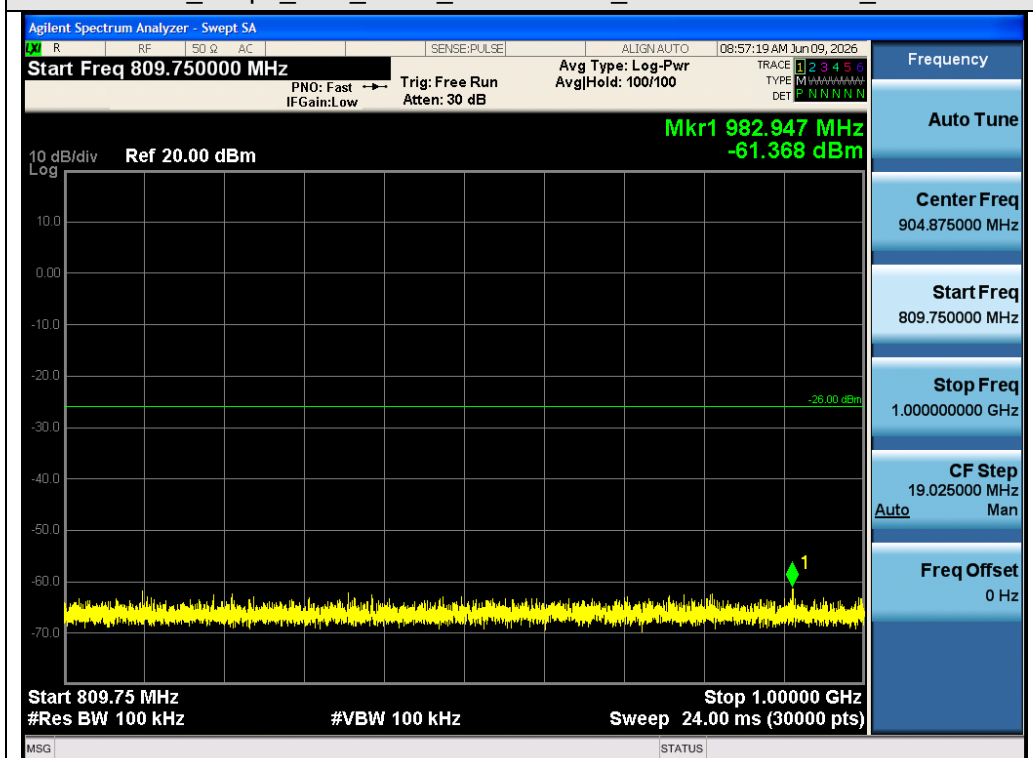
HV	TX	807.125	809.75-1000	850.211	-61.988	0.001	2.5	Pass
HV	TX	807.125	1000-127500	1614.9	-27.979	1.593	2.5	Pass
NV	TX	808.125	30~806	472.128	-60.914	0.001	2.5	Pass
NV	TX	808.125	809.75-1000	994.381	-61.894	0.001	2.5	Pass
NV	TX	808.125	1000-127500	1616.9	-28.232	1.502	2.5	Pass
LV	TX	808.125	30~806	640.112	-60.092	0.001	2.5	Pass
LV	TX	808.125	809.75-1000	939.143	-62.531	0.001	2.5	Pass
LV	TX	808.125	1000-127500	1616.9	-28.134	1.537	2.5	Pass
HV	TX	808.125	30~806	770.846	-60.002	0.001	2.5	Pass
HV	TX	808.125	809.75-1000	900.115	-62.270	0.001	2.5	Pass
HV	TX	808.125	1000-127500	1616.9	-28.255	1.495	2.5	Pass
NV	TX	808.625	30~806	199.329	-58.680	0.001	2.5	Pass
NV	TX	808.625	809.75-1000	994.413	-61.554	0.001	2.5	Pass
NV	TX	808.625	1000-127500	1617.7	-28.075	1.558	2.5	Pass
LV	TX	808.625	30~806	503.971	-60.834	0.001	2.5	Pass
LV	TX	808.625	809.75-1000	939.315	-62.170	0.001	2.5	Pass
LV	TX	808.625	1000-127500	1617.7	-27.982	1.591	2.5	Pass
HV	TX	808.625	30~806	504.022	-60.832	0.001	2.5	Pass
HV	TX	808.625	809.75-1000	831.832	-61.596	0.001	2.5	Pass
HV	TX	808.625	1000-127500	1618.1	-28.113	1.544	2.5	Pass
NV	TX	809.125	30~806	503.997	-59.693	0.001	2.5	Pass
NV	TX	809.125	809.75-1000	938.465	-61.374	0.001	2.5	Pass
NV	TX	809.125	1000-127500	1618.9	-28.027	1.575	2.5	Pass
LV	TX	809.125	30~806	504.022	-59.961	0.001	2.5	Pass
LV	TX	809.125	809.75-1000	929.662	-61.005	0.001	2.5	Pass
LV	TX	809.125	1000-127500	1618.9	-28.306	1.477	2.5	Pass
HV	TX	809.125	30~806	198.915	-59.681	0.001	2.5	Pass
HV	TX	809.125	809.75-1000	955.296	-60.506	0.001	2.5	Pass
HV	TX	809.125	1000-127500	1618.9	-28.266	1.491	2.5	Pass

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Test Graphs of Unwanted Emission Strength

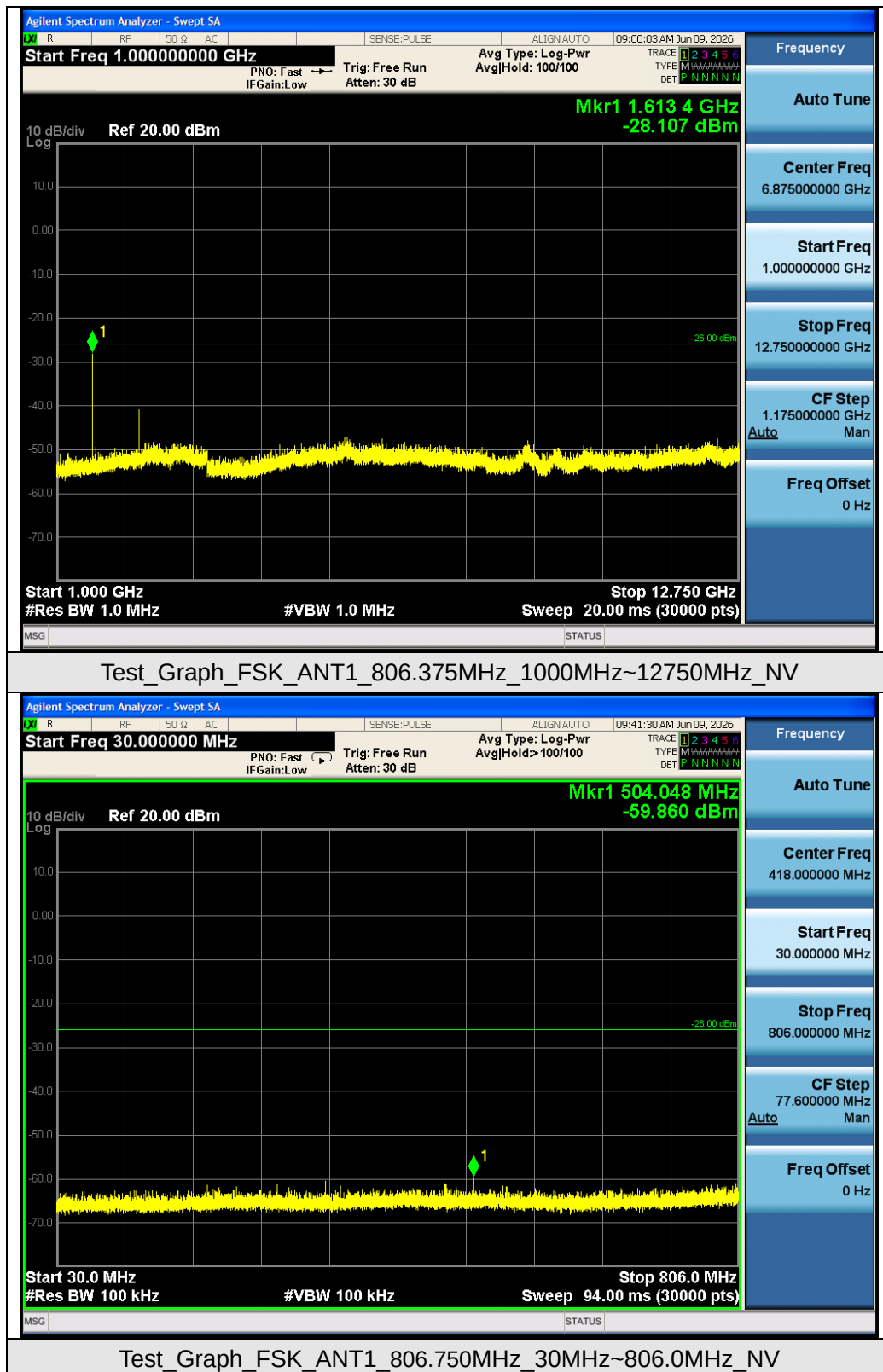


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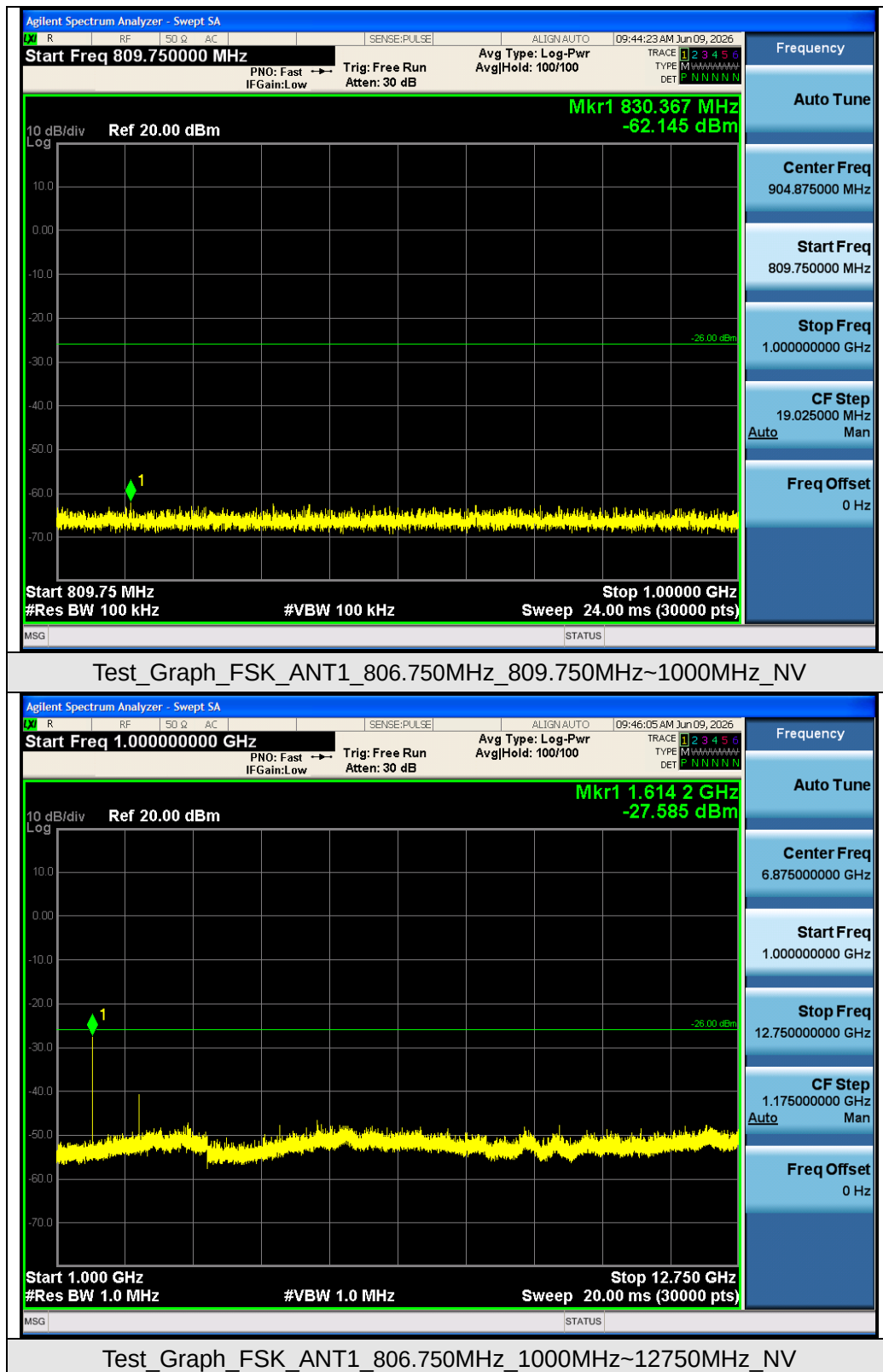


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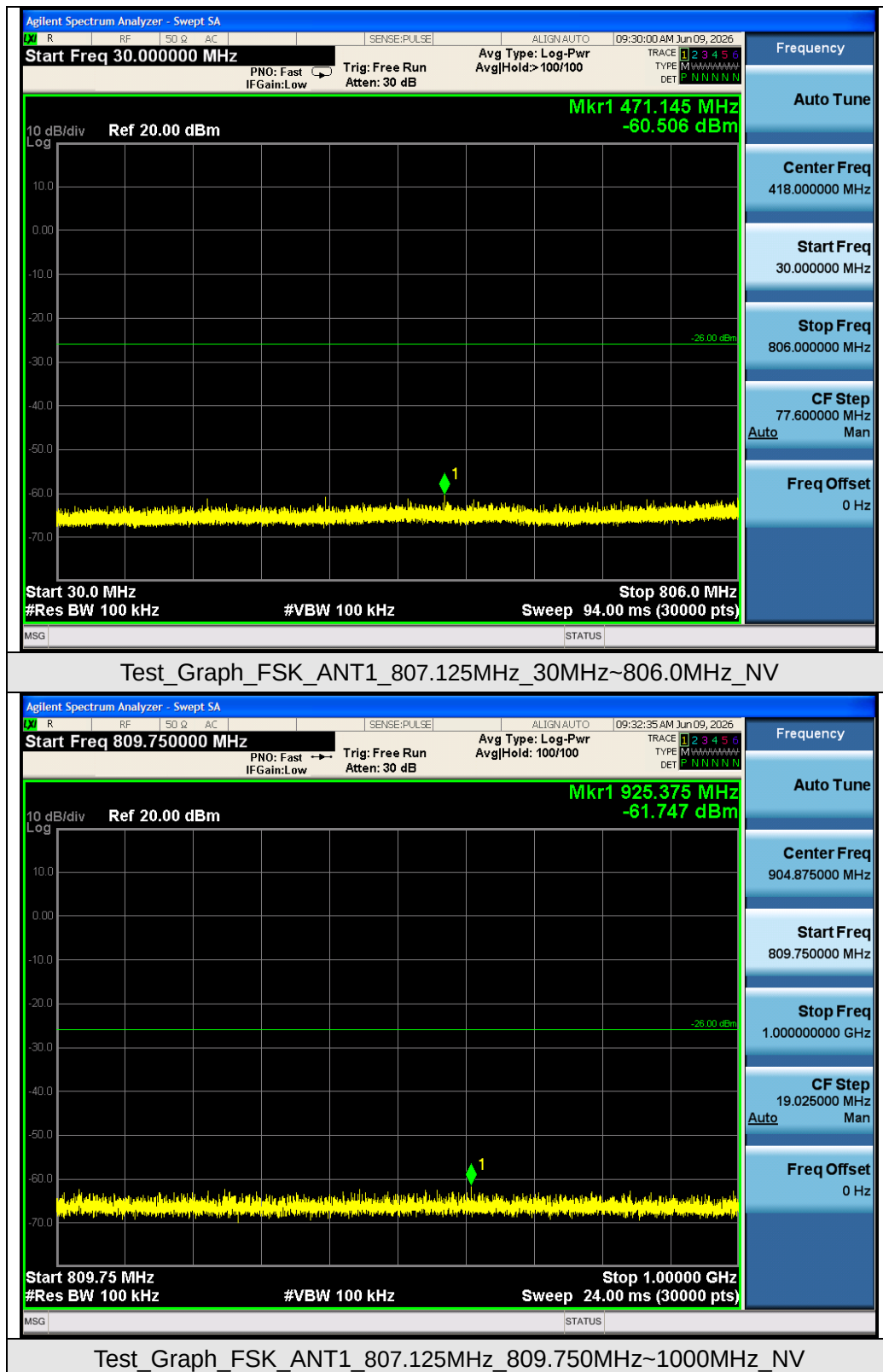


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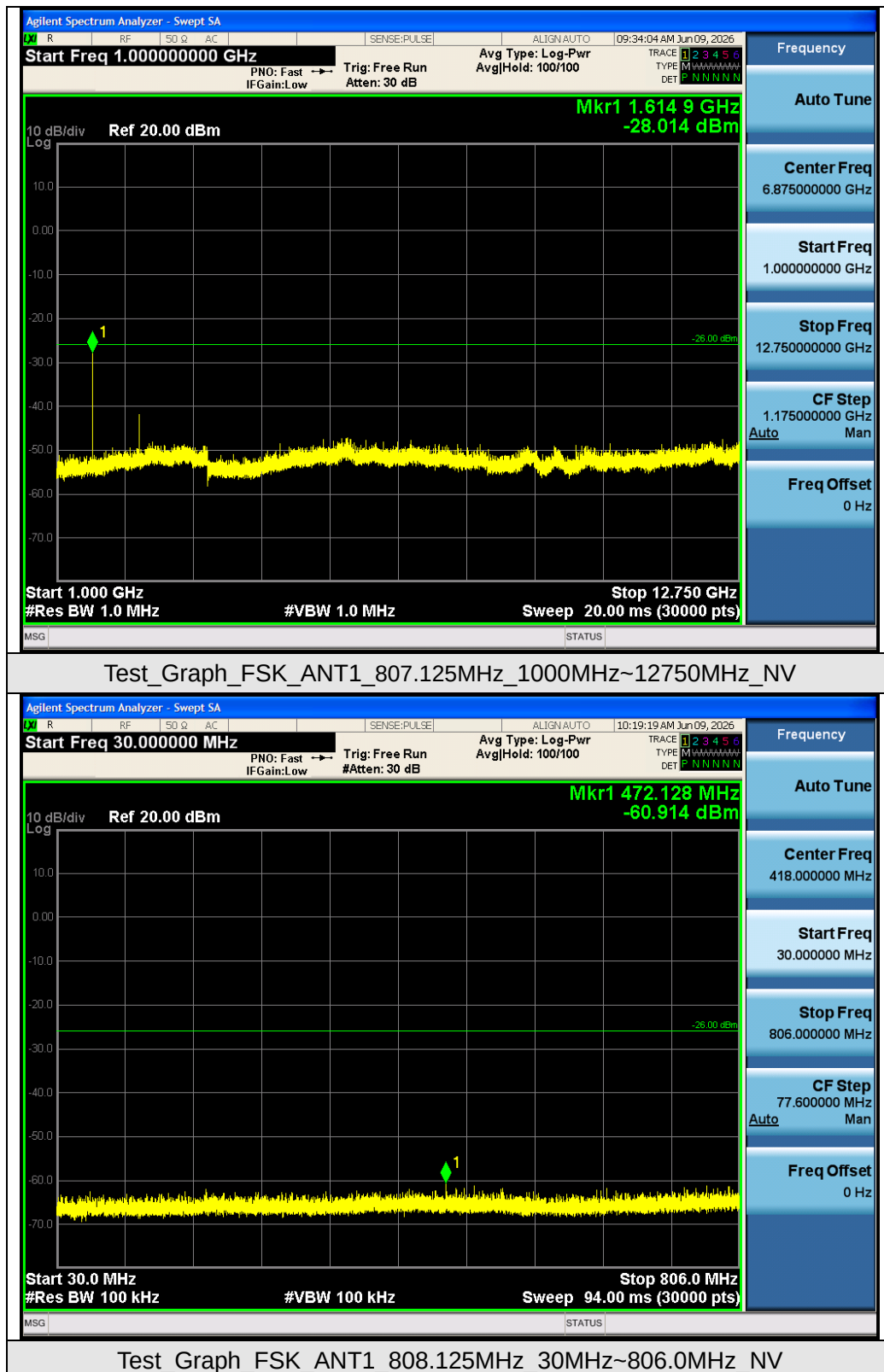
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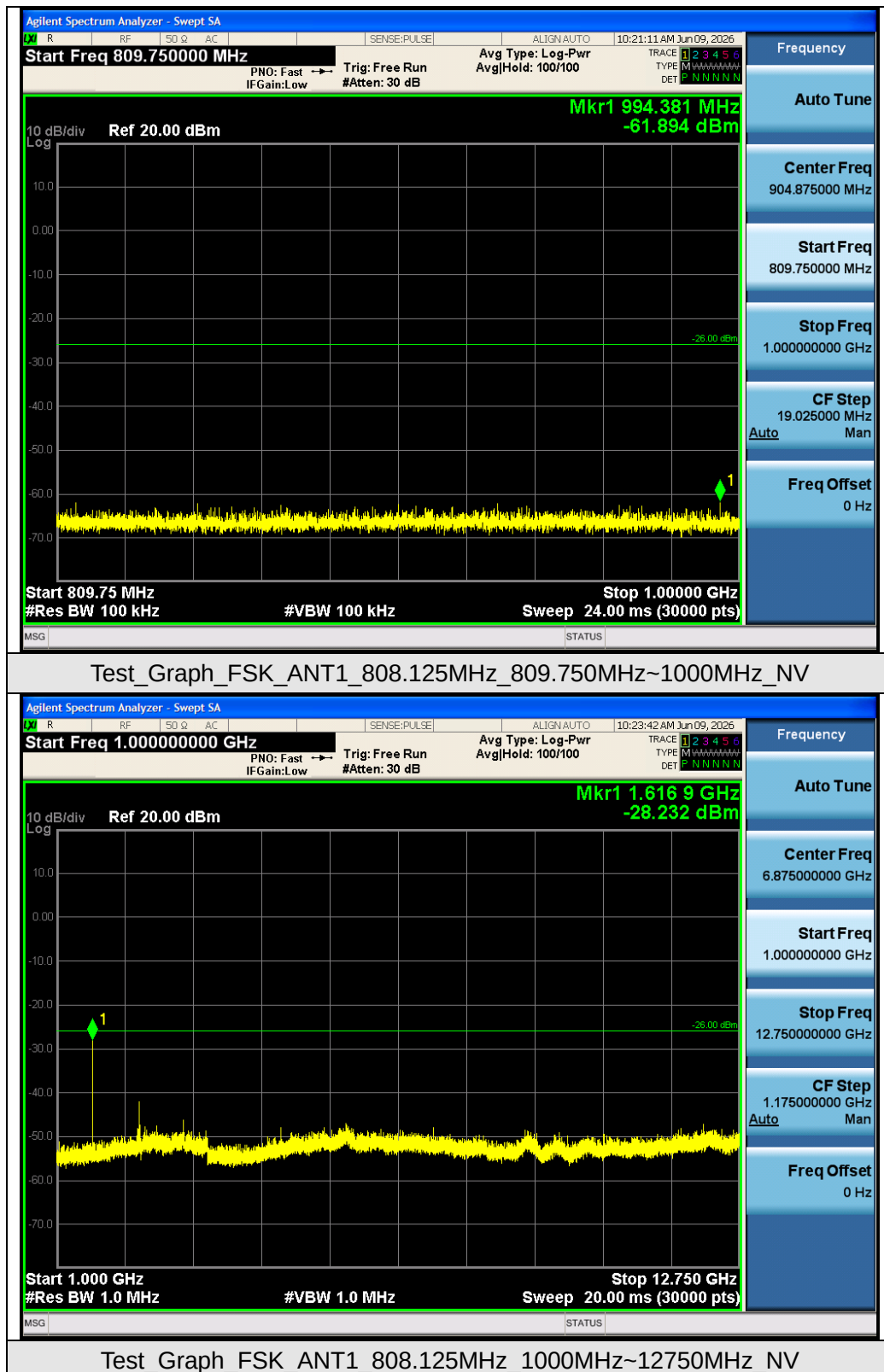


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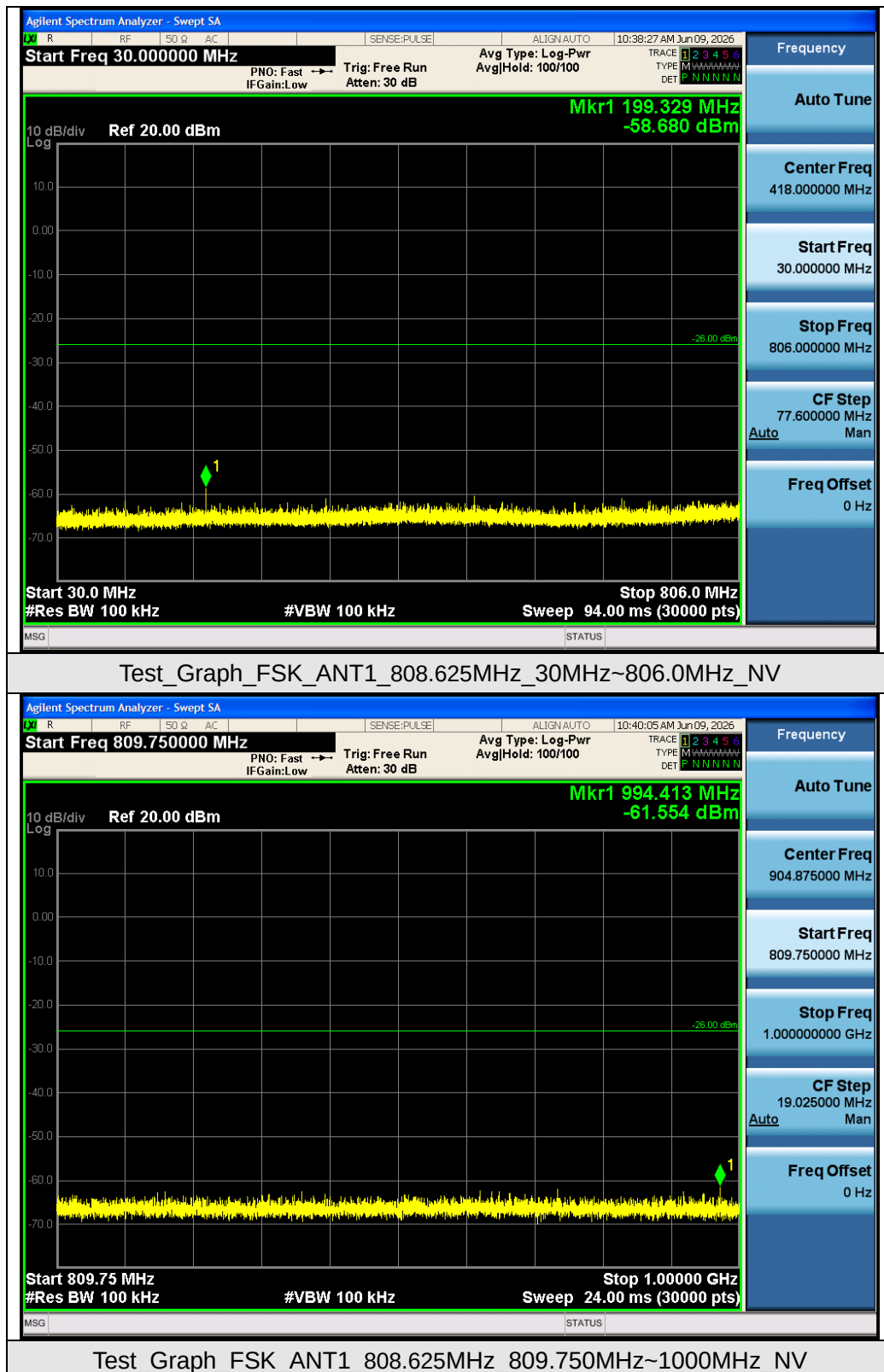
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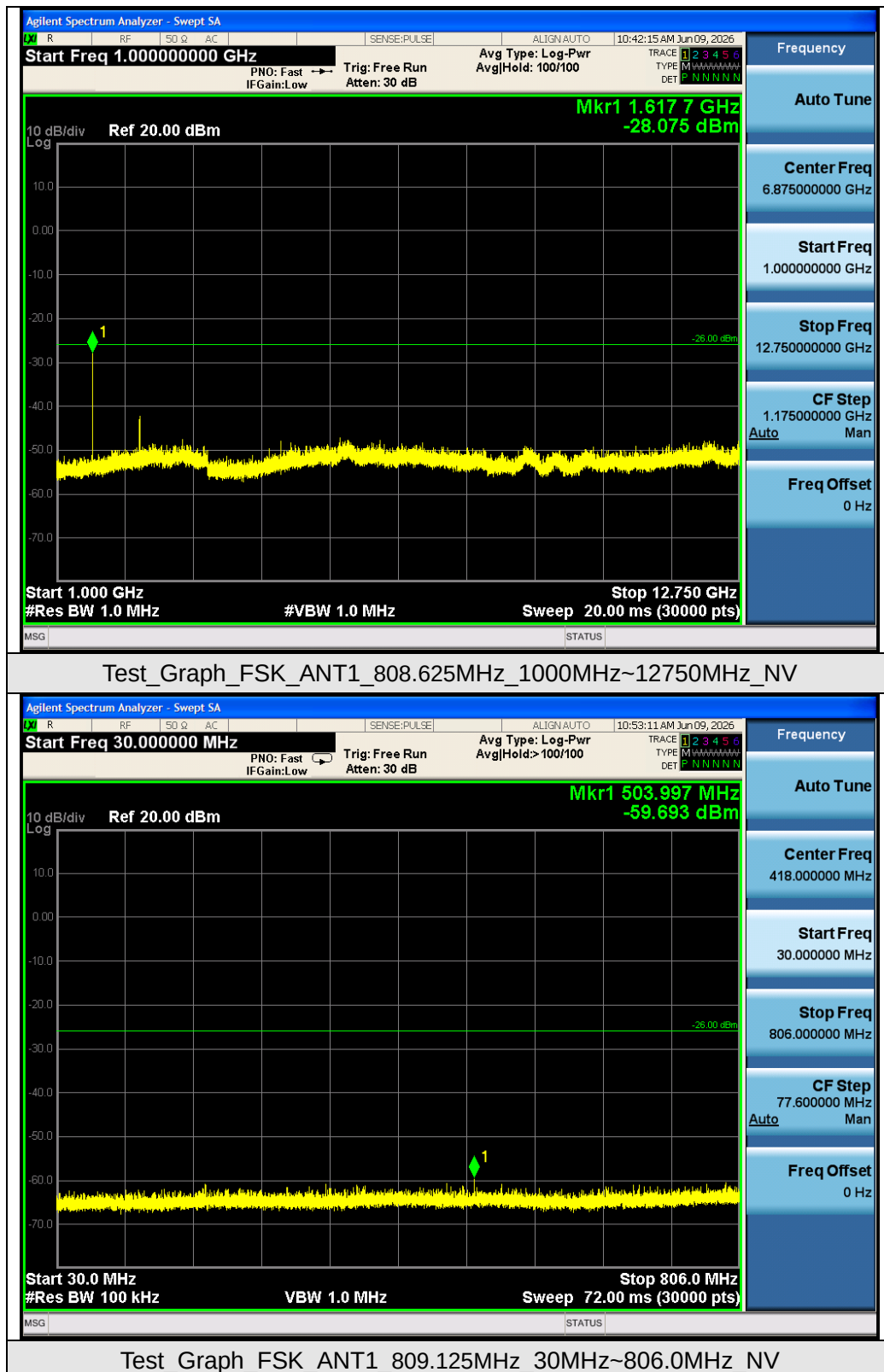


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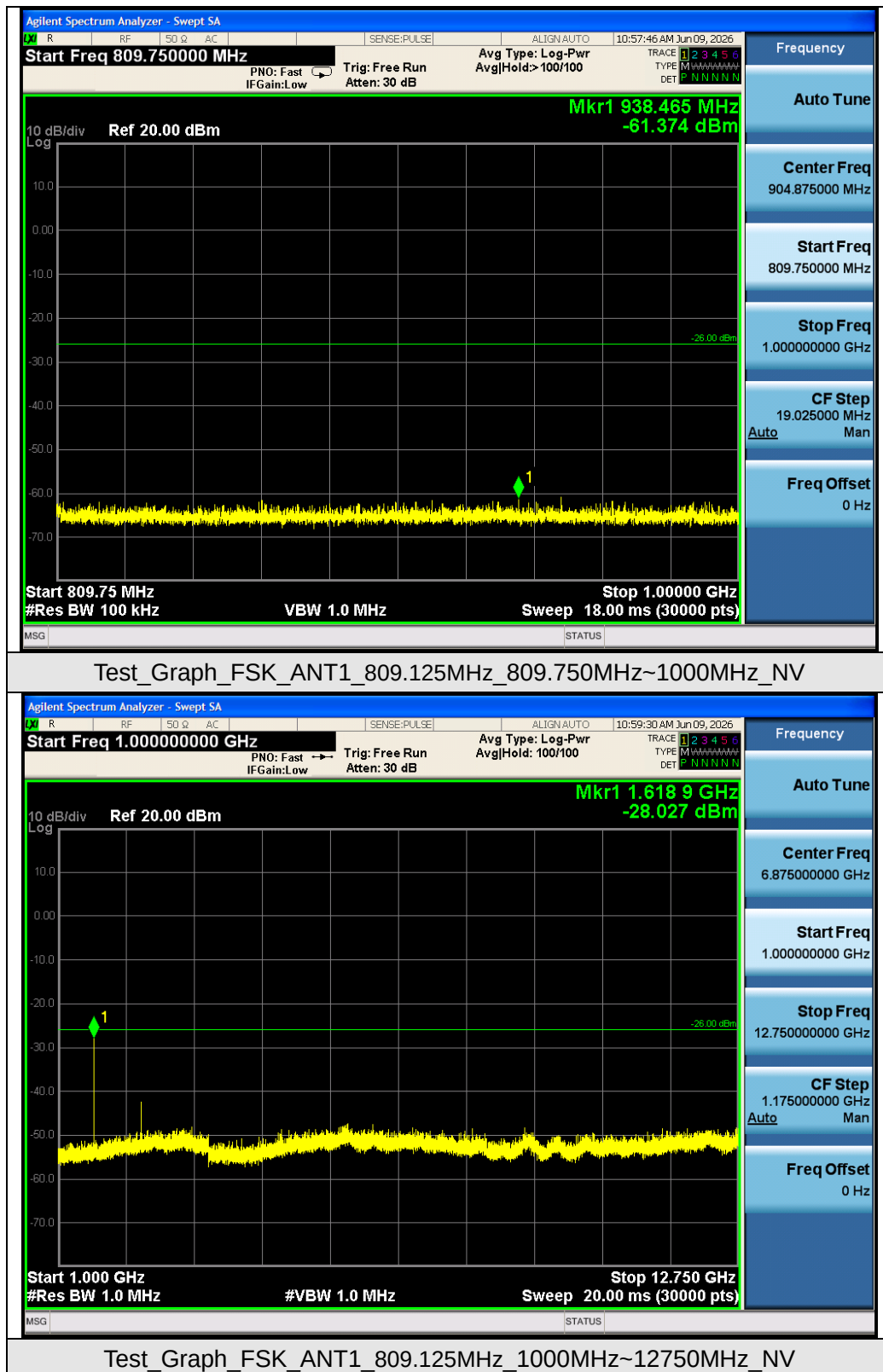


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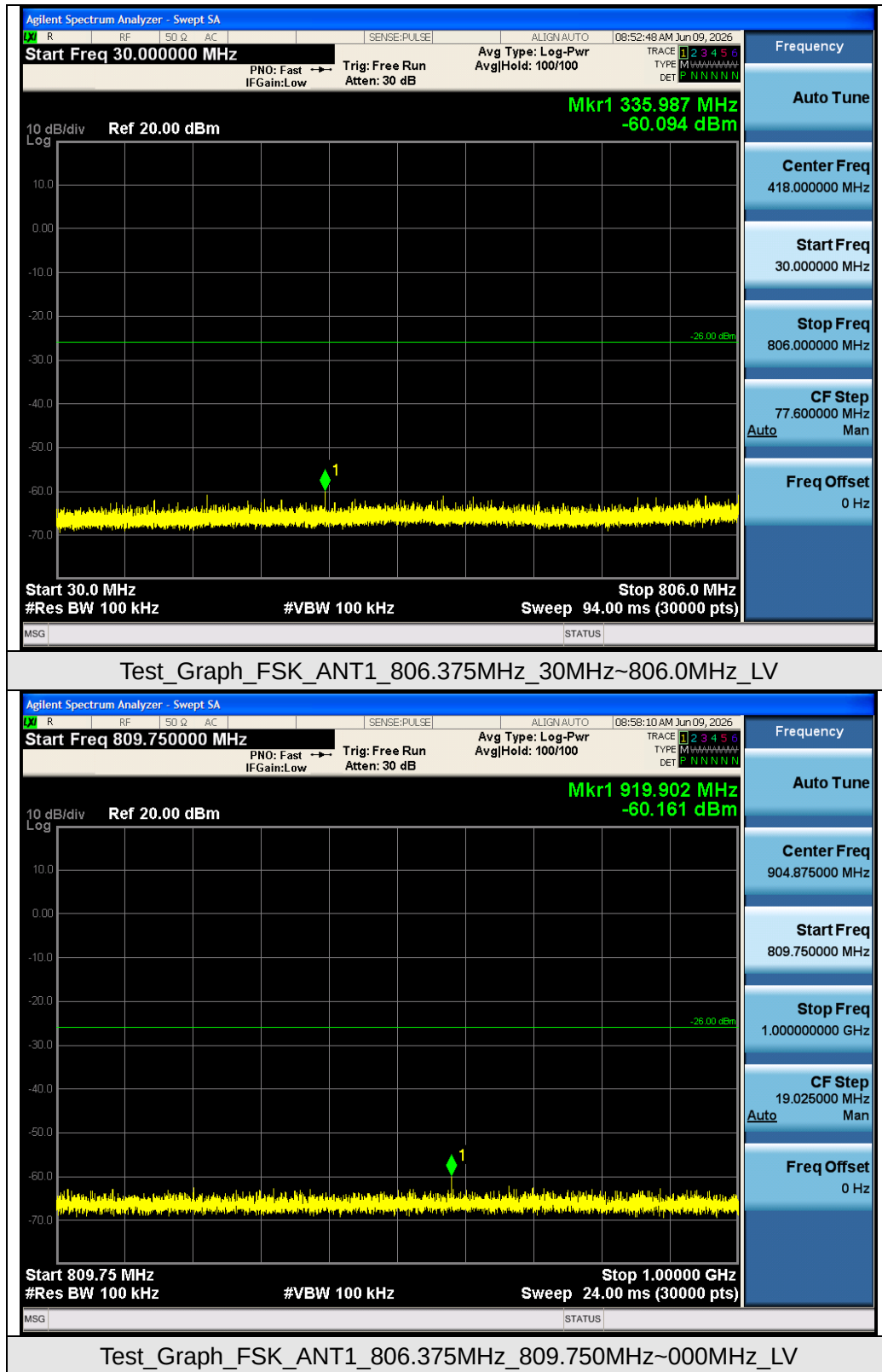
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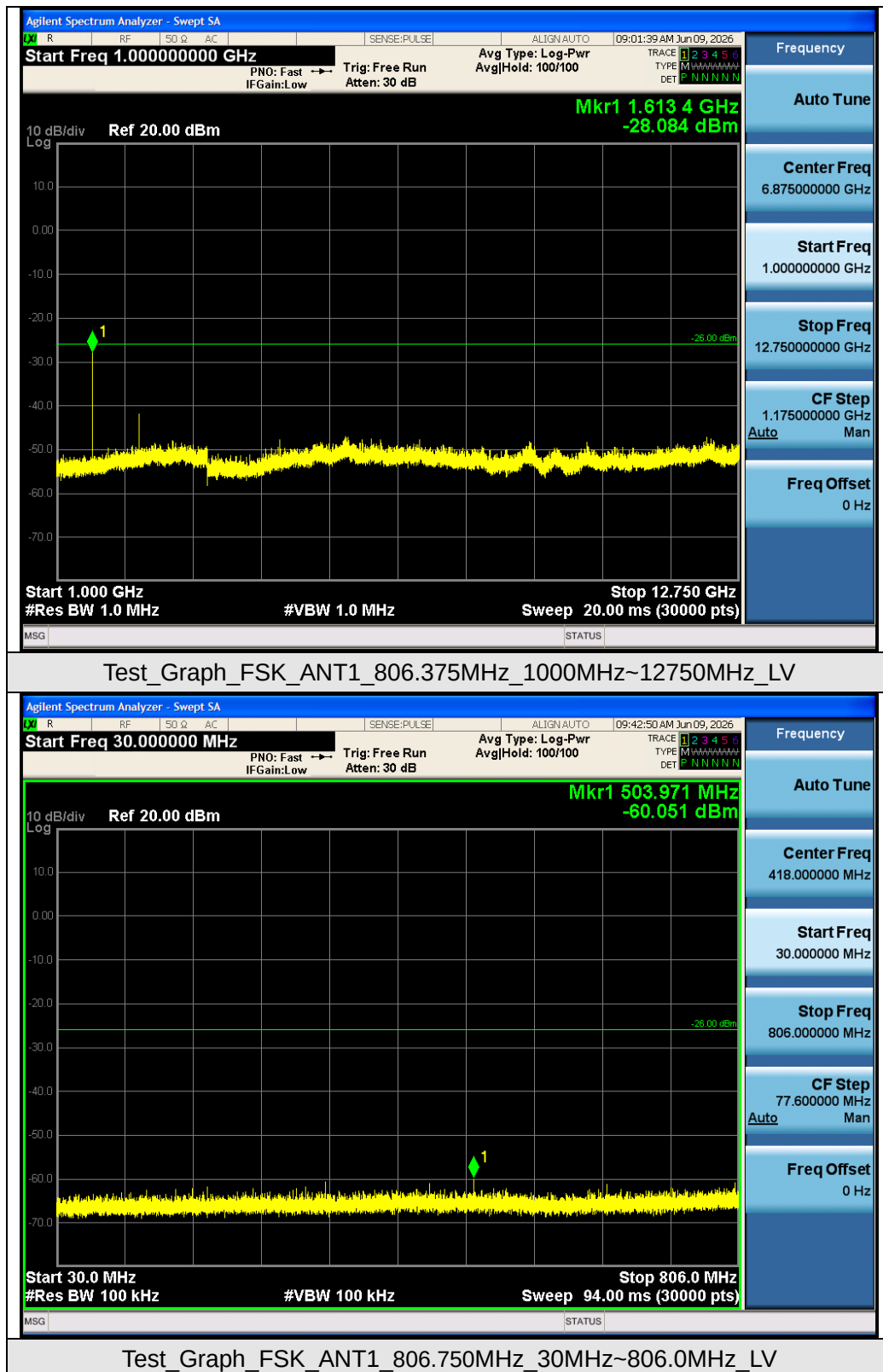
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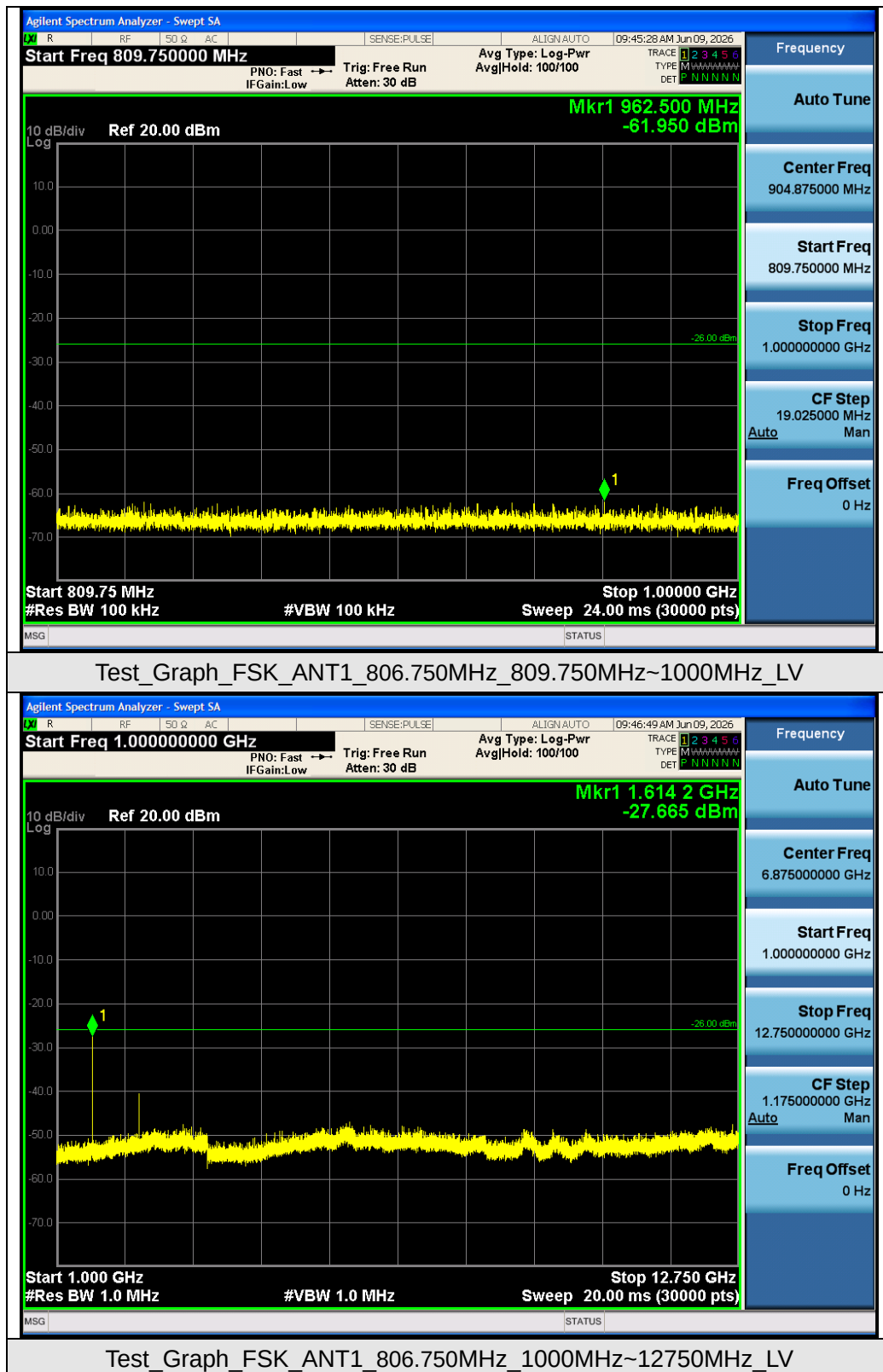
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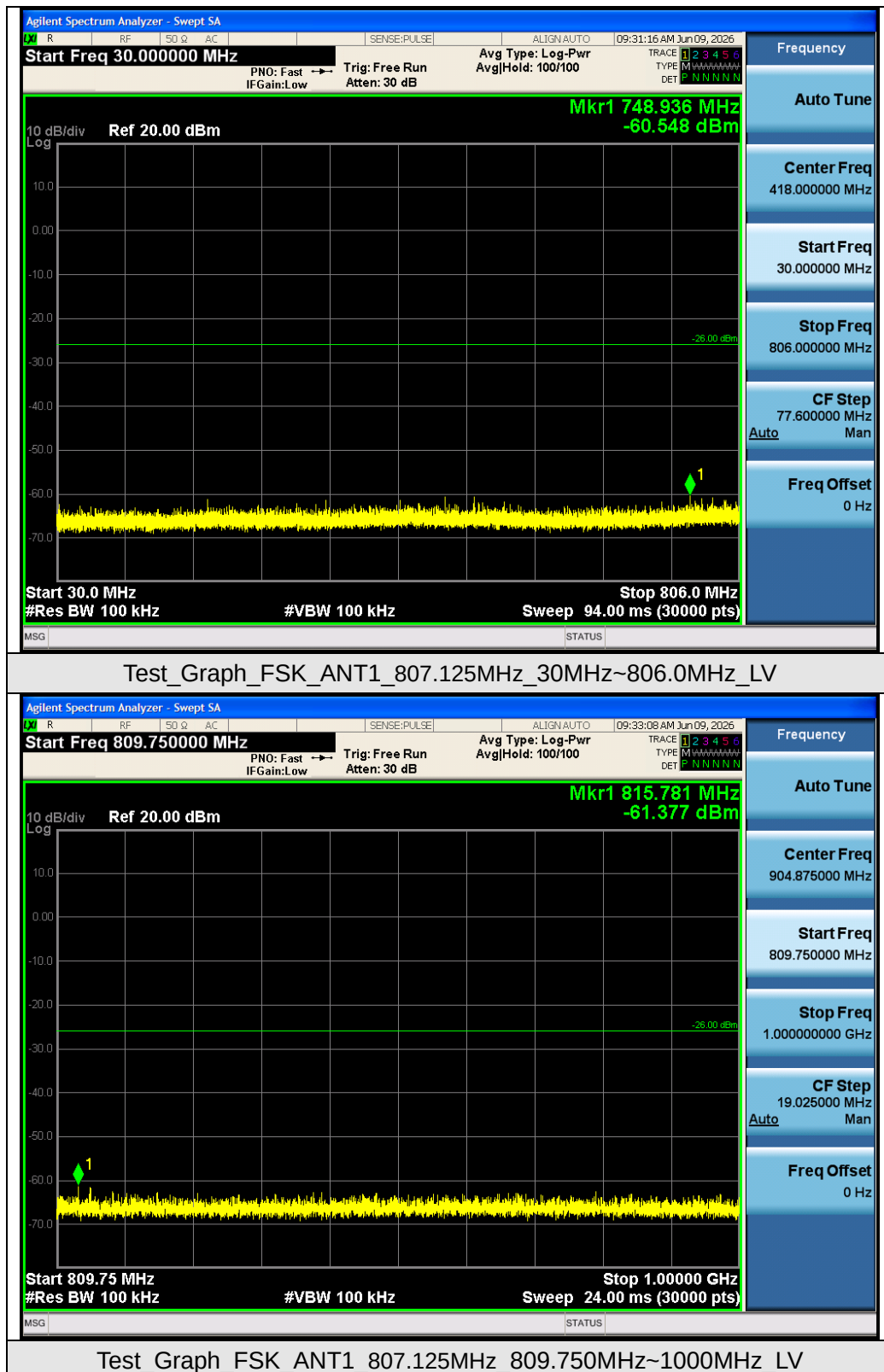
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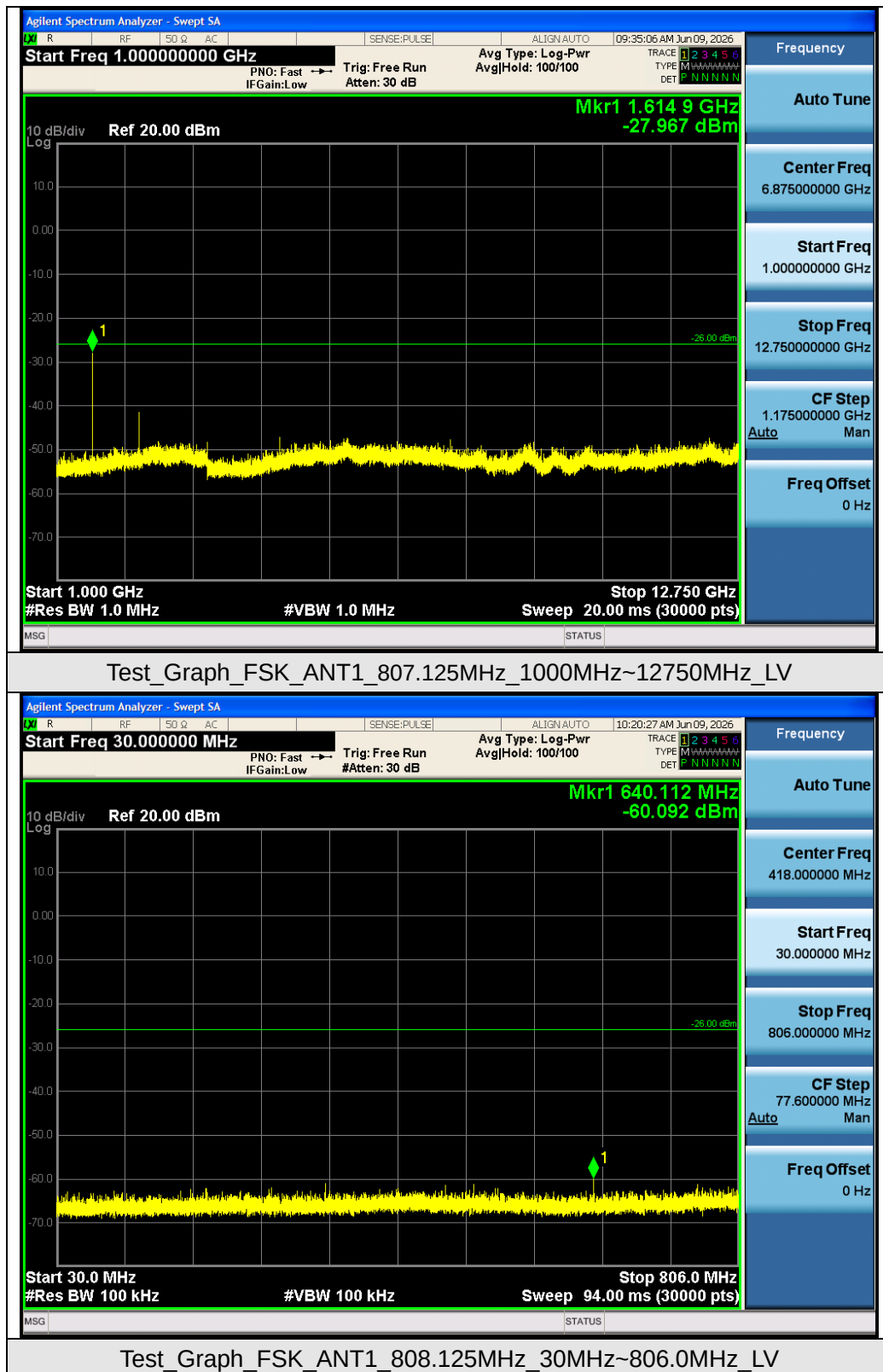


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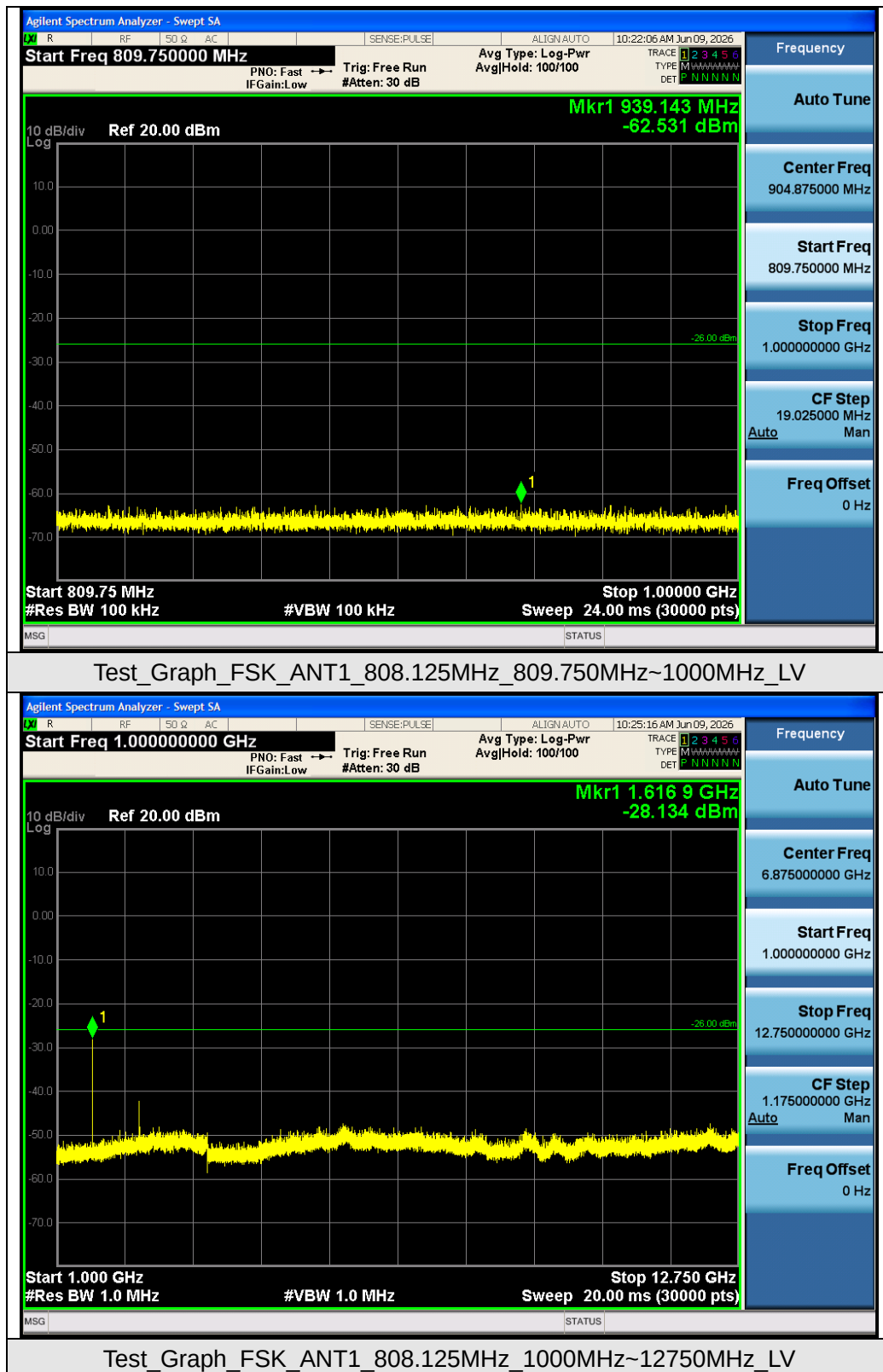


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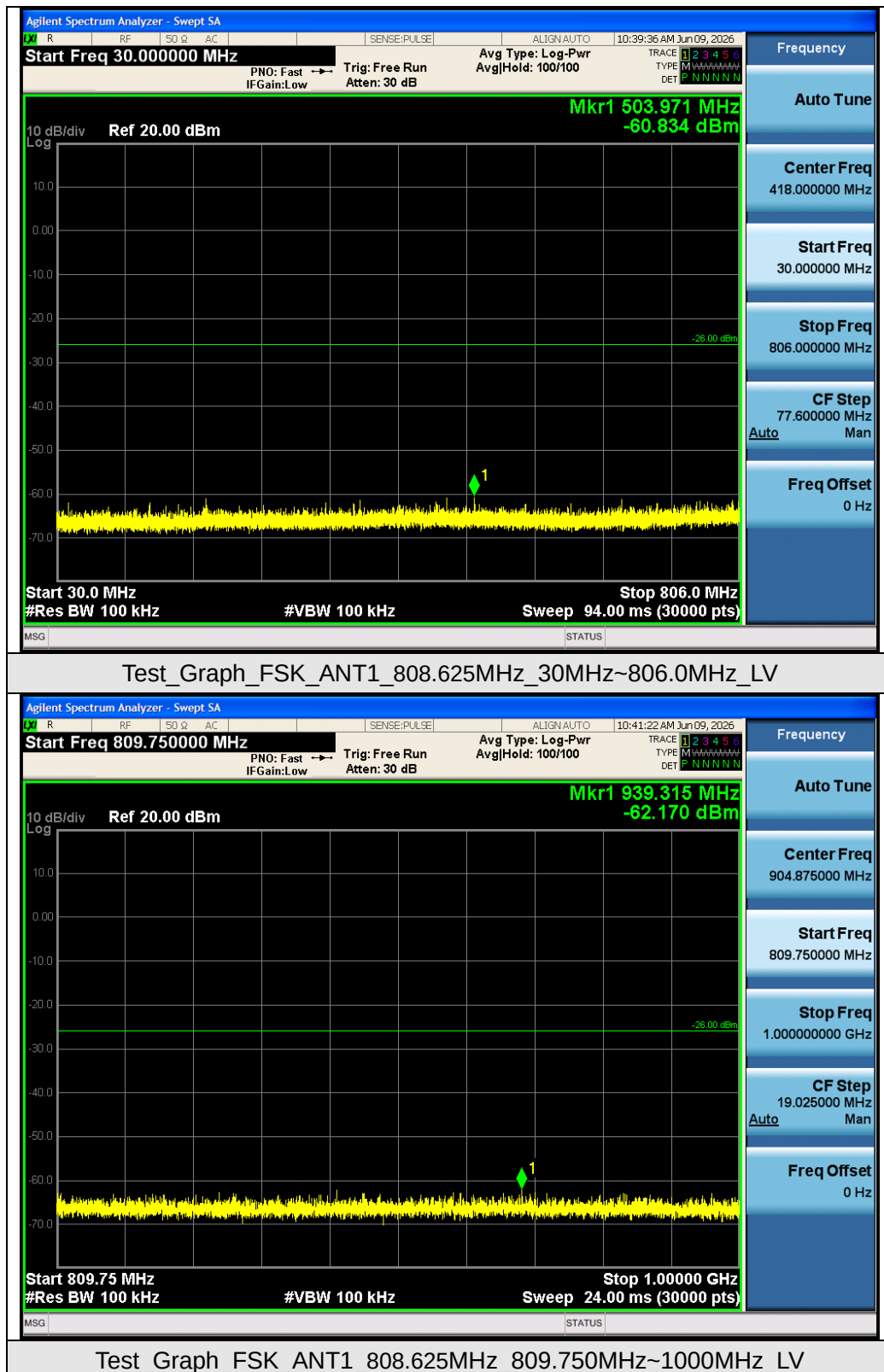


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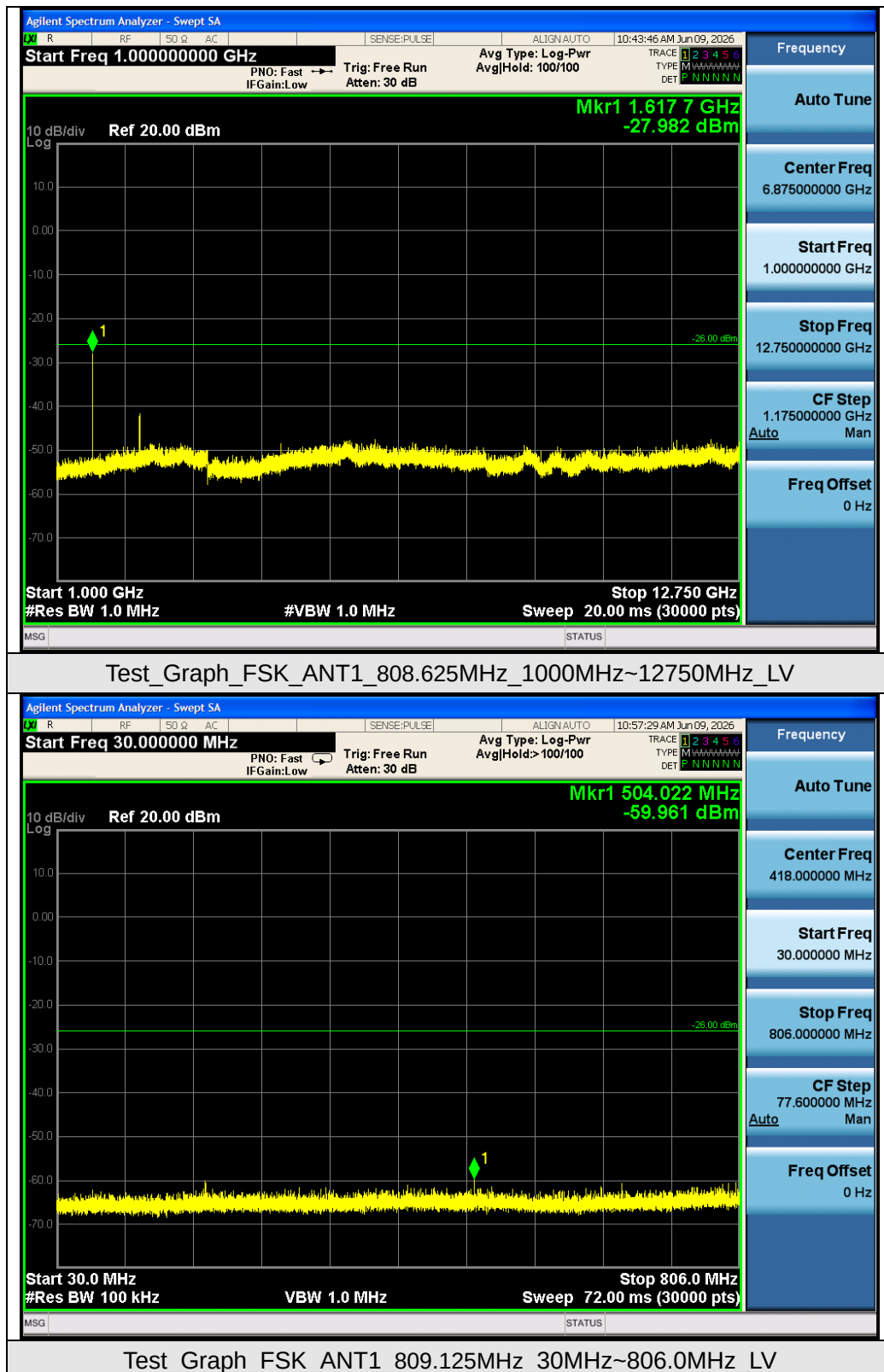


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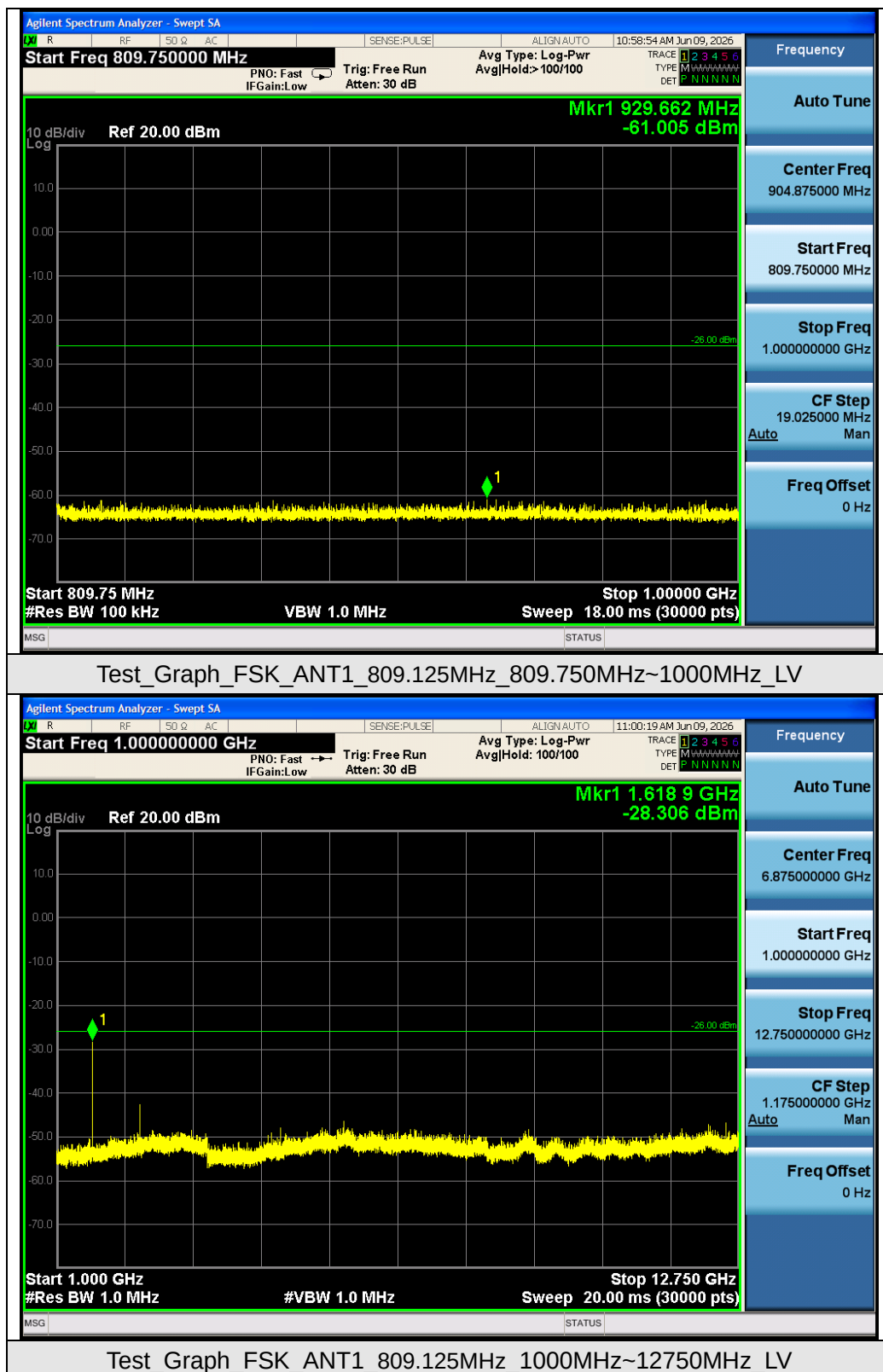
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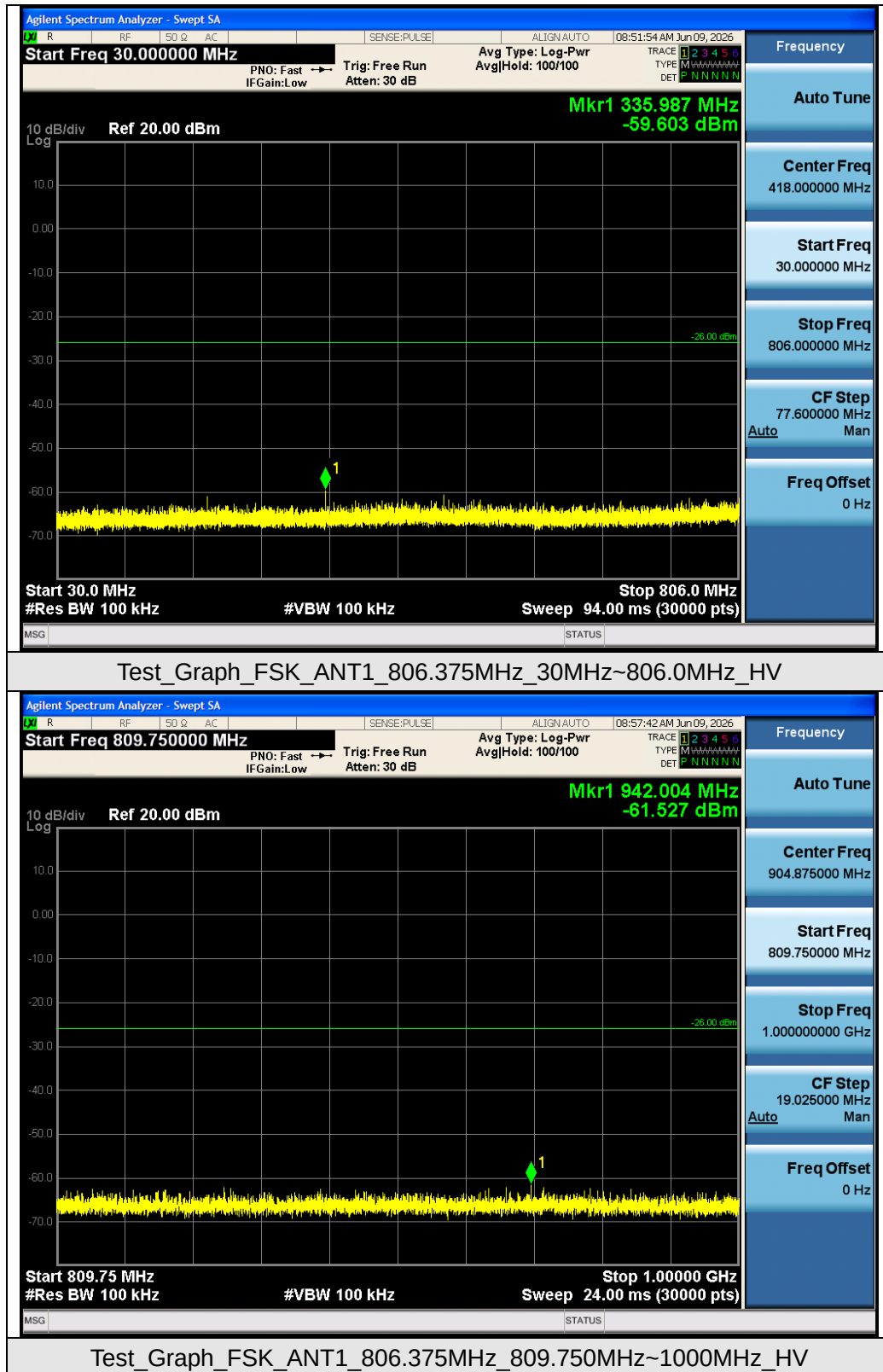


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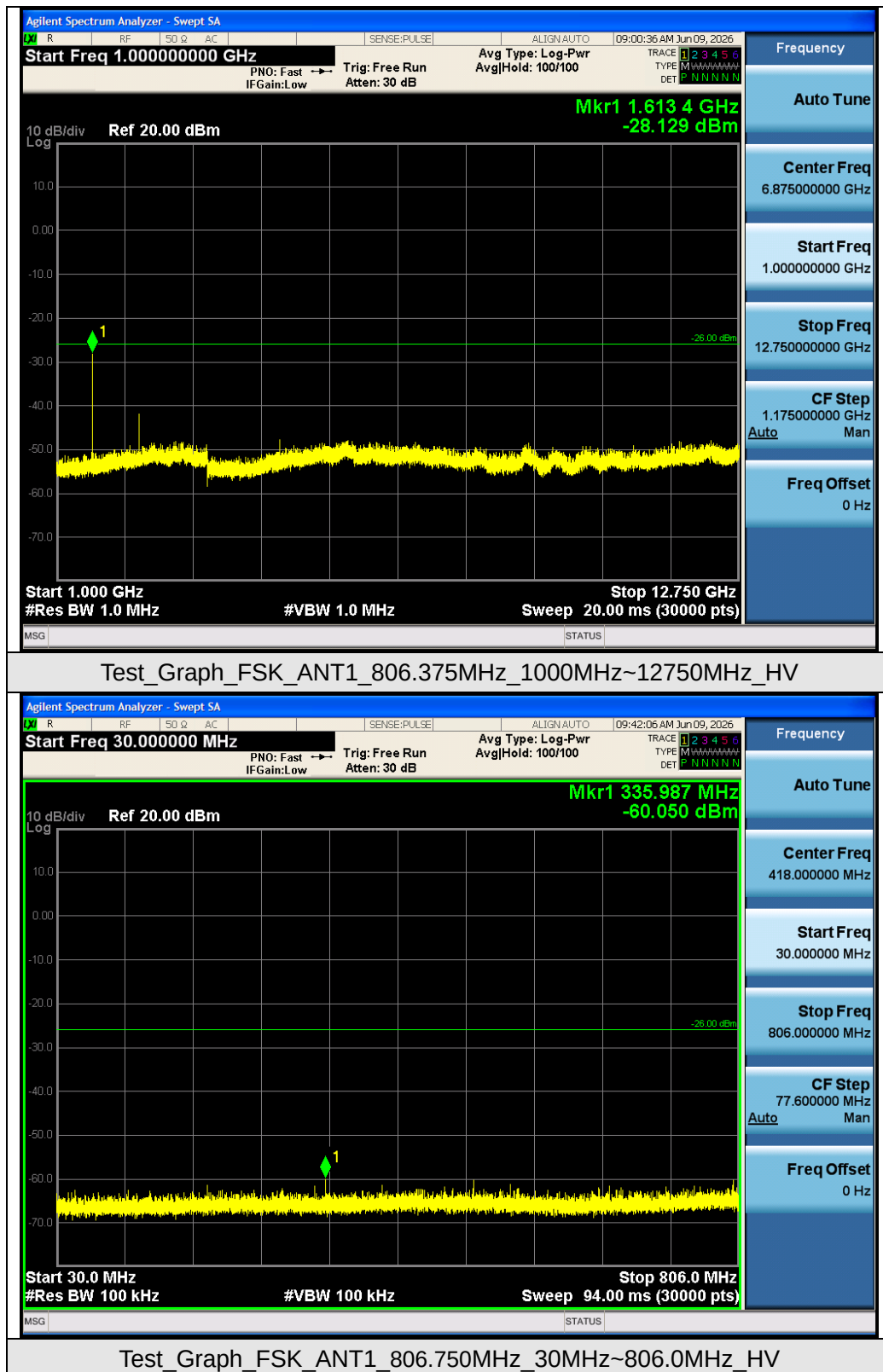


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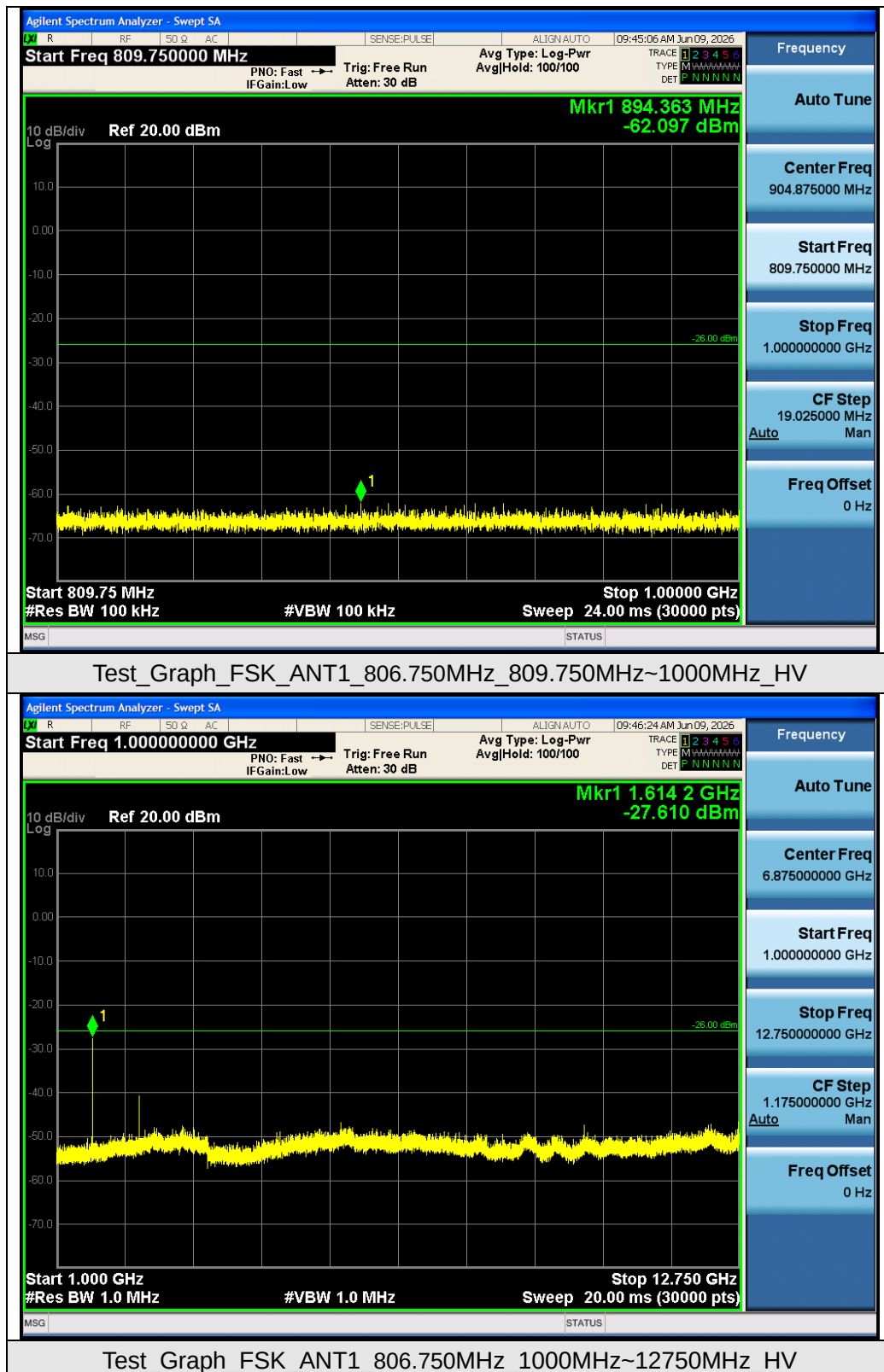
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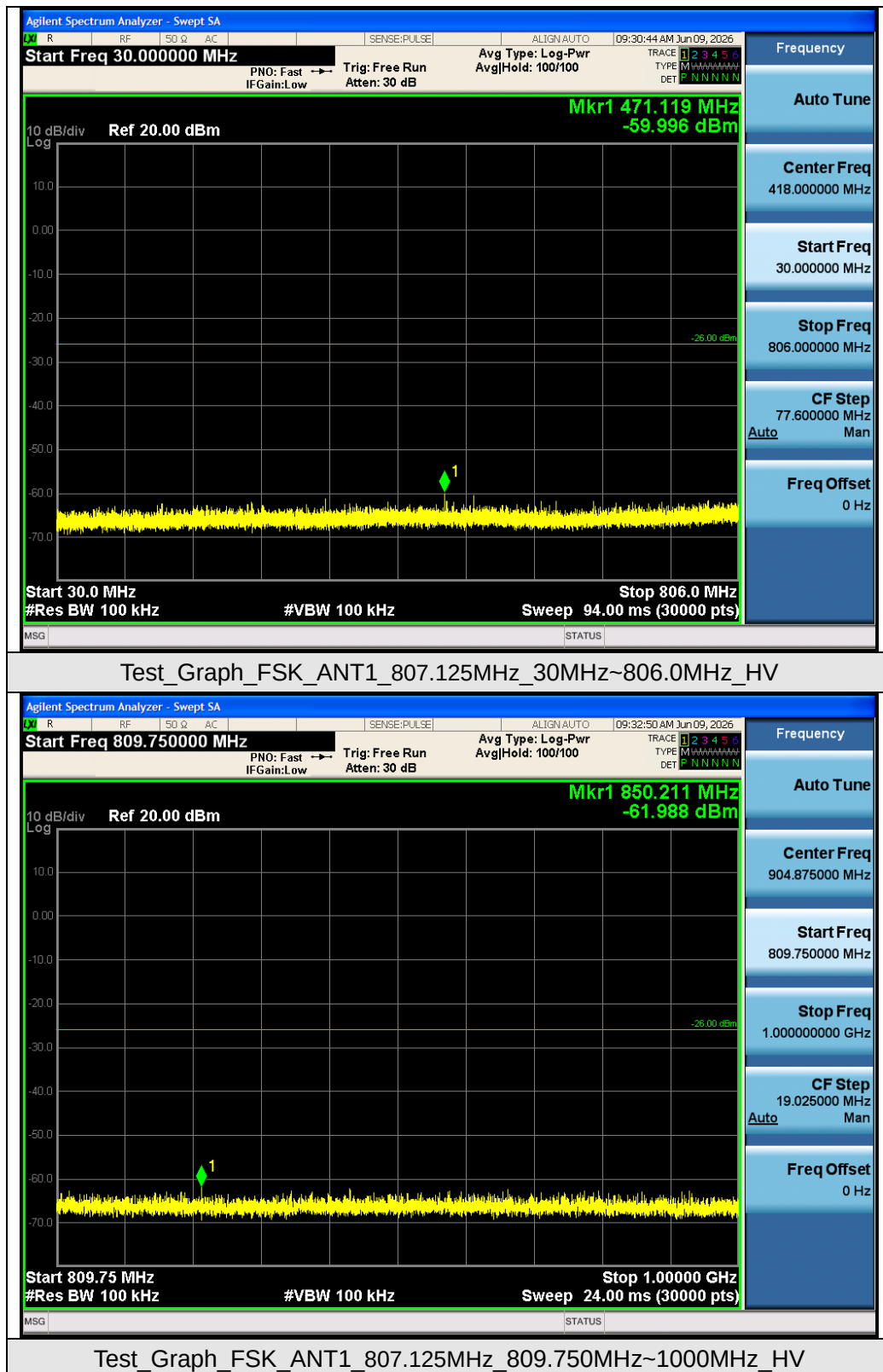
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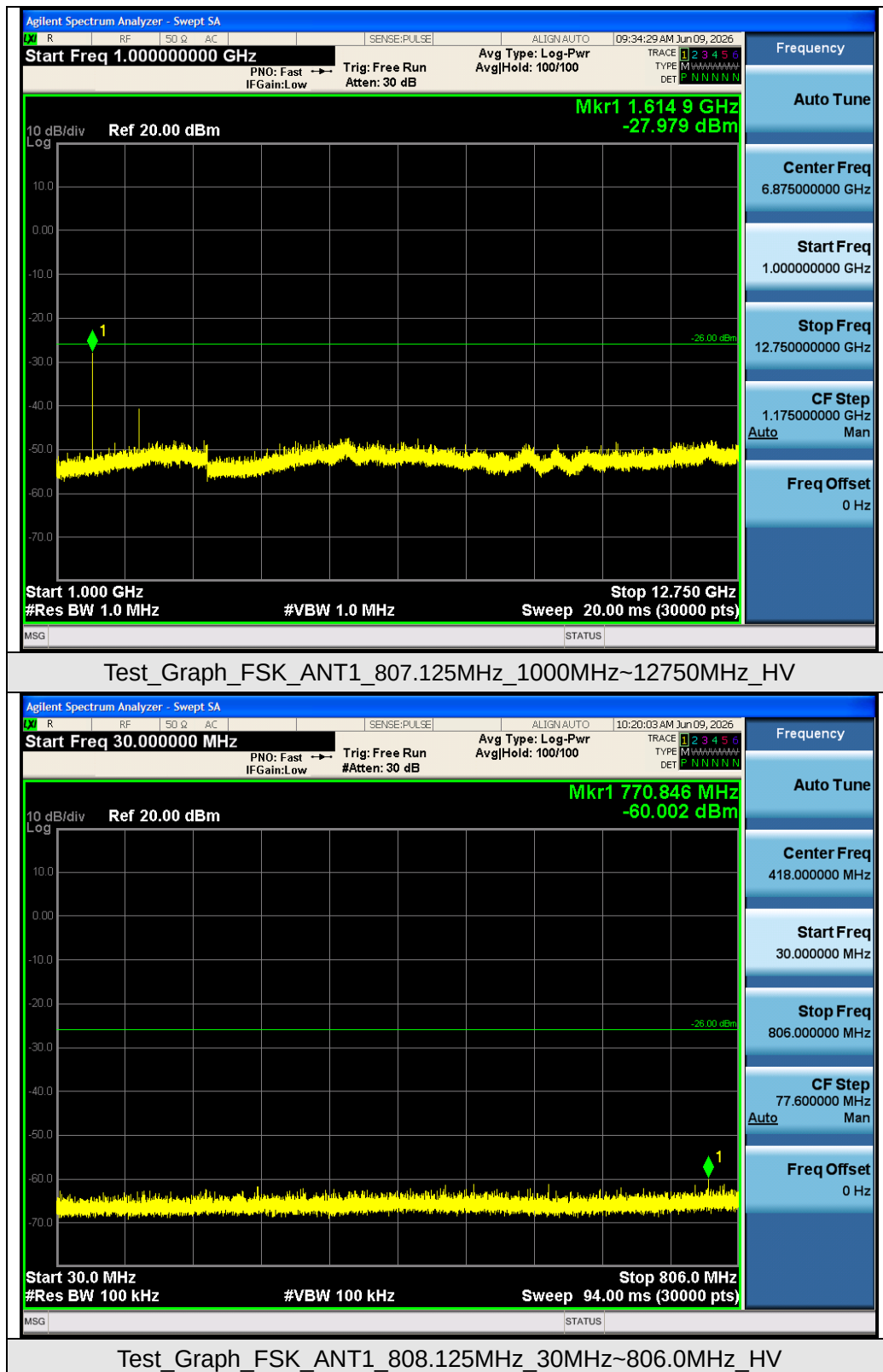


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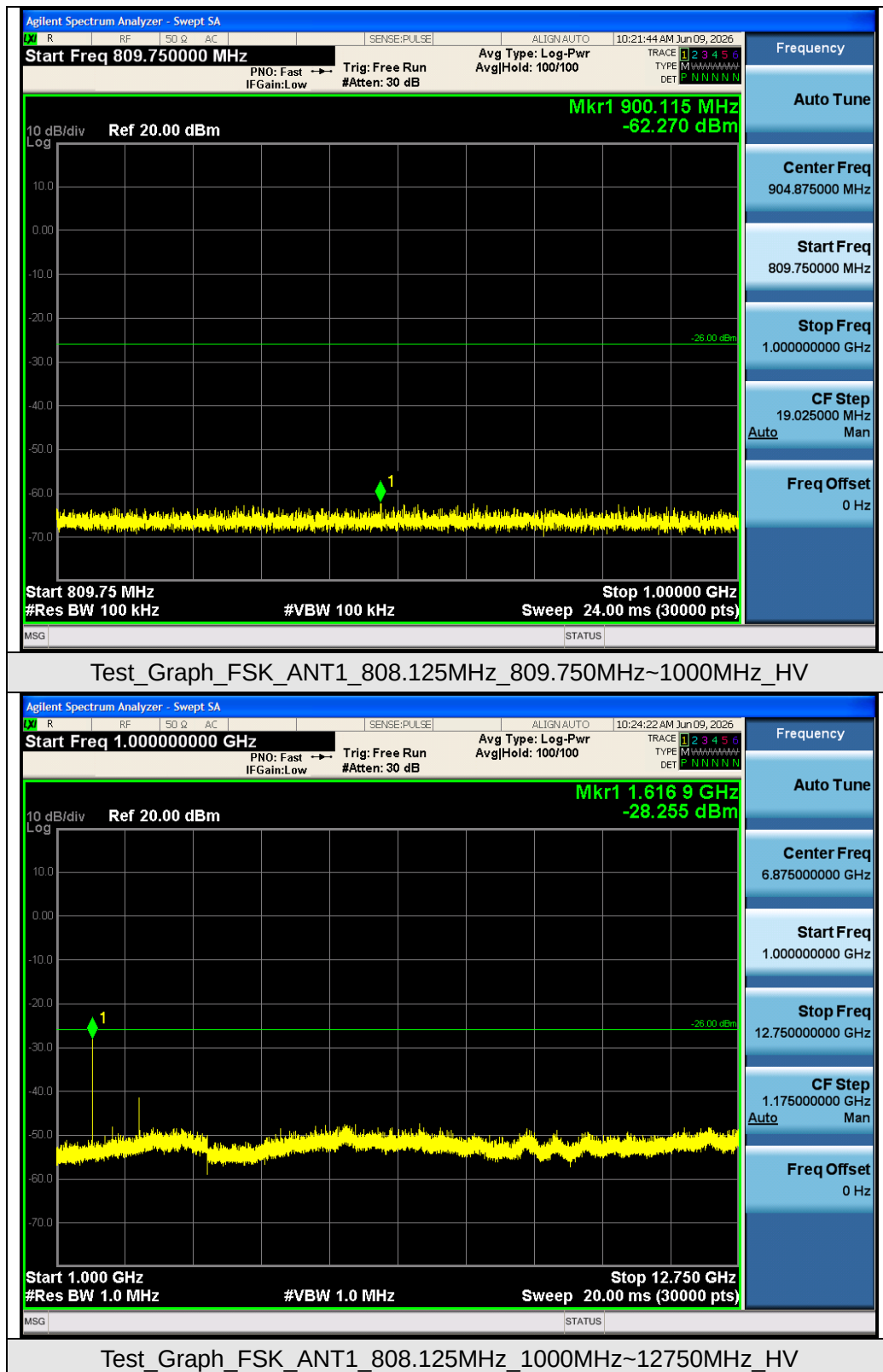


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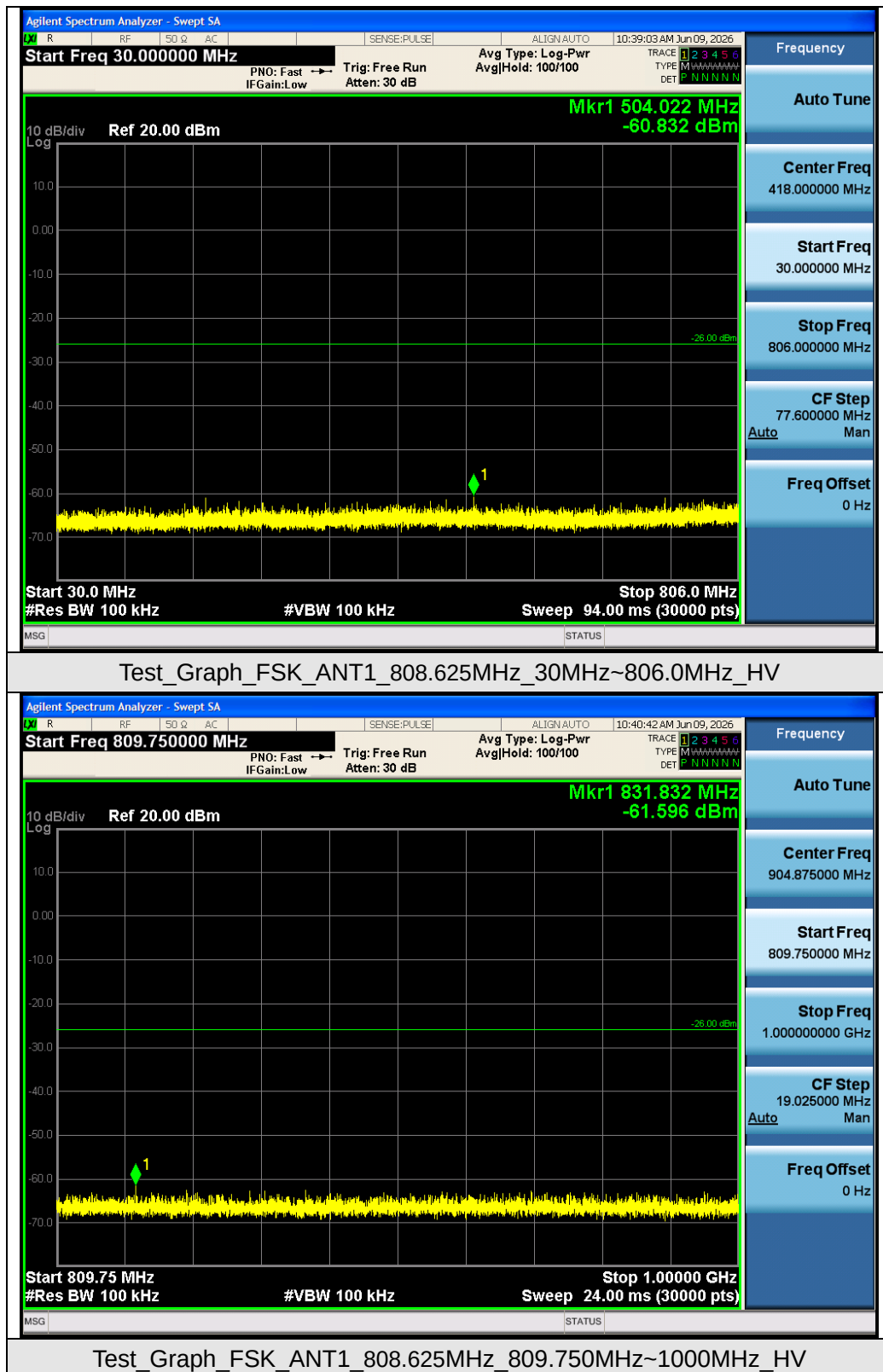
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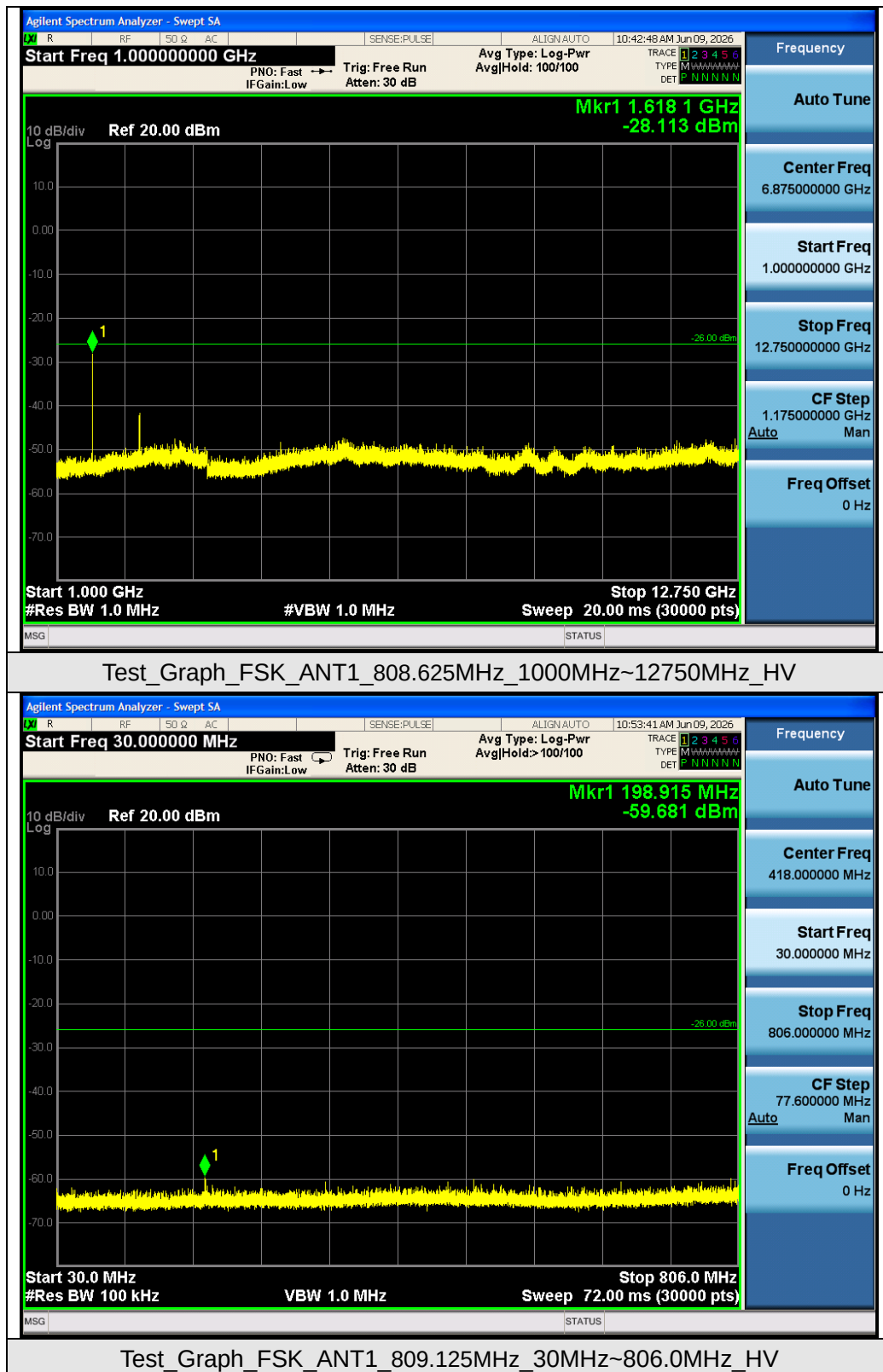
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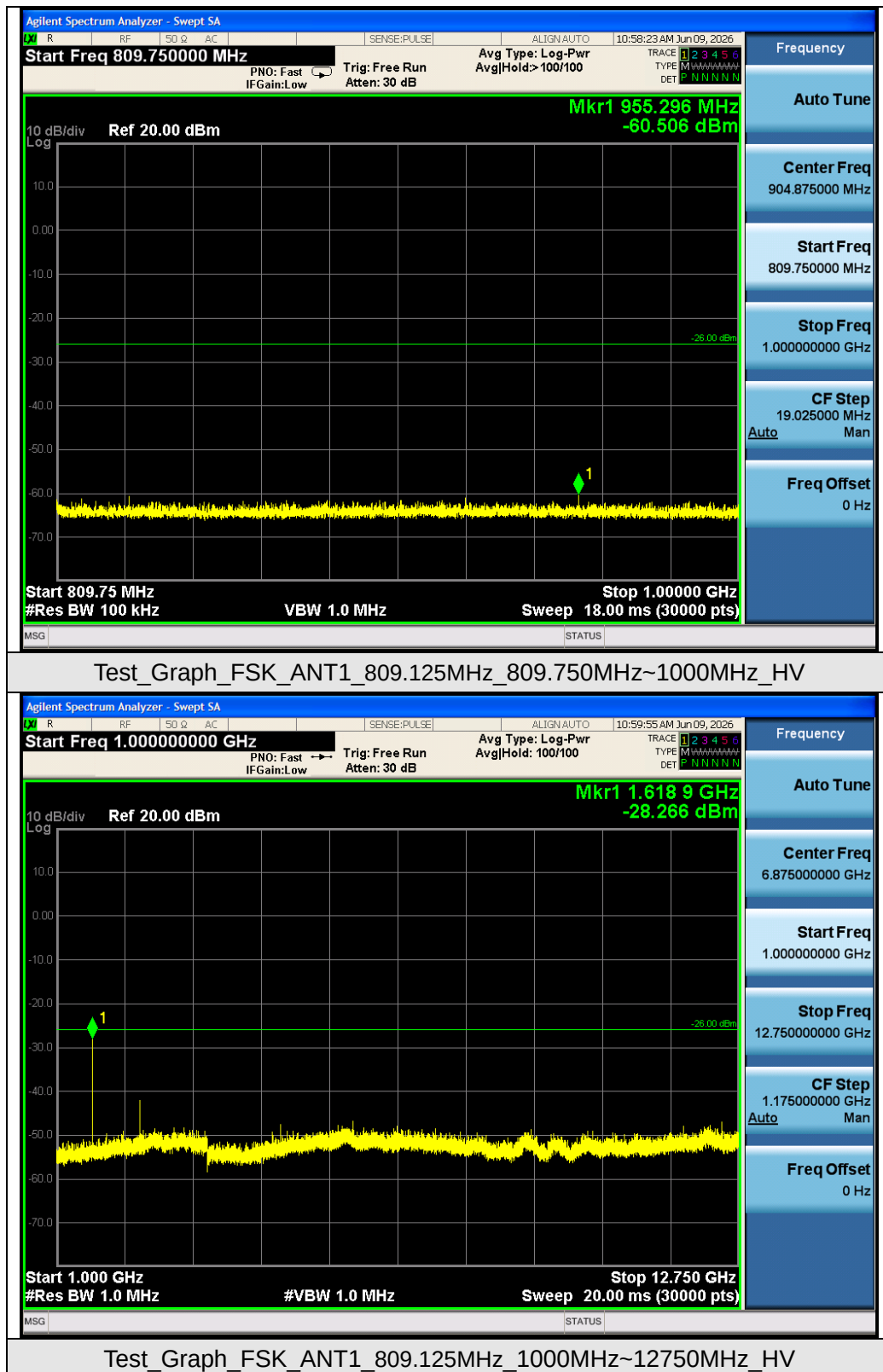
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5.4. Antenna Power Error Measurement

Test Limit

Item	Limits
Antenna Power	$\leq 10\text{mW}$
Antenna Power Error	+50%, -50% (Base on manufacturer declare antenna power)

Test Procedure

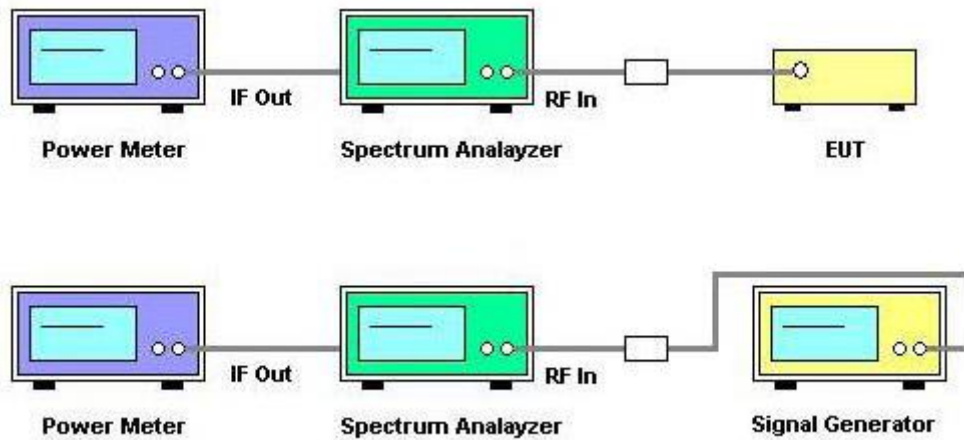
Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RBW / VBW	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

1. A power meter is connected on the IF output port of 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 "E".
6. Remove the EUT and put the replacing standard signal generator (SSG). Set the standard signal generator (SSG) at same frequency and transmit on, then set SSG output power at Pt to give the equivalent output level of "E".
7. Calculate antenna power 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
8. Antenna Power Error is definition that actual measure antenna power tolerance between + 50% to - 50% power range that base on manufacturer declare the conducted power.

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Test Setup



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Test Result

Test Temperature	22.8 °C	Relative Humidity	56.9 %
Test Engineer	Vicky	Testing Time	2026-06-09

Test Data of Antenna Power						
Test Mode	Test Frequency (MHz)	Antenna Power (mW)			Limit (mW)	P/F
		NV	LV	HV		
FSK	806.375	0.40	0.40	0.39	10	Pass
	806.750	0.42	0.42	0.42	10	Pass
	807.125	0.41	0.41	0.41	10	Pass
	808.125	0.31	0.31	0.31	10	Pass
	808.625	0.40	0.40	0.40	10	Pass
	809.125	0.32	0.37	0.38	10	Pass

Test Data of Antenna Power Error							
Test Mode	Test Frequency (MHz)	Rated power (mW)	Antenna Power Error (%)			Limit (%)	P/F
			NV	LV	HV		
FSK	806.375	0.5	-20.00	-20.00	-22.00	-50 to 50	Pass
	806.750	0.5	-16.00	-16.00	-16.00	-50 to 50	Pass
	807.125	0.5	-18.00	-18.00	-18.00	-50 to 50	Pass
	808.125	0.5	-38.00	-38.00	-38.00	-50 to 50	Pass
	808.625	0.5	-20.00	-20.00	-20.00	-50 to 50	Pass
	809.125	0.5	-36.00	-26.00	-24.00	-50 to 50	Pass

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5.5. Imitation of Collateral Emission of Receiver Measurement

Test Limit

Test Item	Limits
RX Spurious Emission	$\leq 4\text{nW}$ ($f < 1\text{GHz}$)
	$\leq 4\text{nW}$ ($1\text{GHz} \leq f$)

Test Procedure

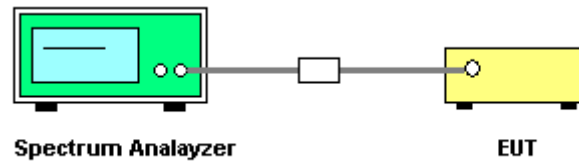
The following table is the setting of Spectrum Analyzer.

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

- 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: 10dB / Ref: 0dBm / 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, 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.
- Convert from dBm to nW: $P(\text{nW}) = 1000000 * 10^{[P(\text{dBm})/10]}$

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Test Setup



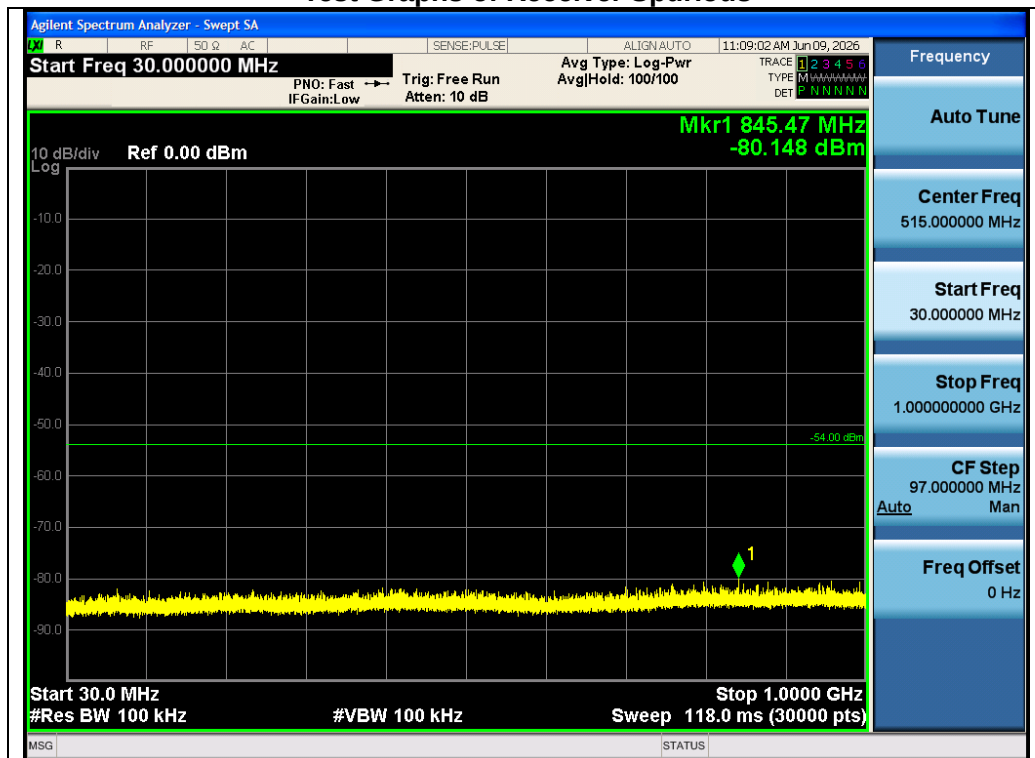
Test Result

Test Temperature	22.8 °C	Relative Humidity	56.9 %
Test Engineer	Vicky	Testing Time	2026-06-09
Remark	Only reflects the channel 806.375MHz as the worst mode data.		

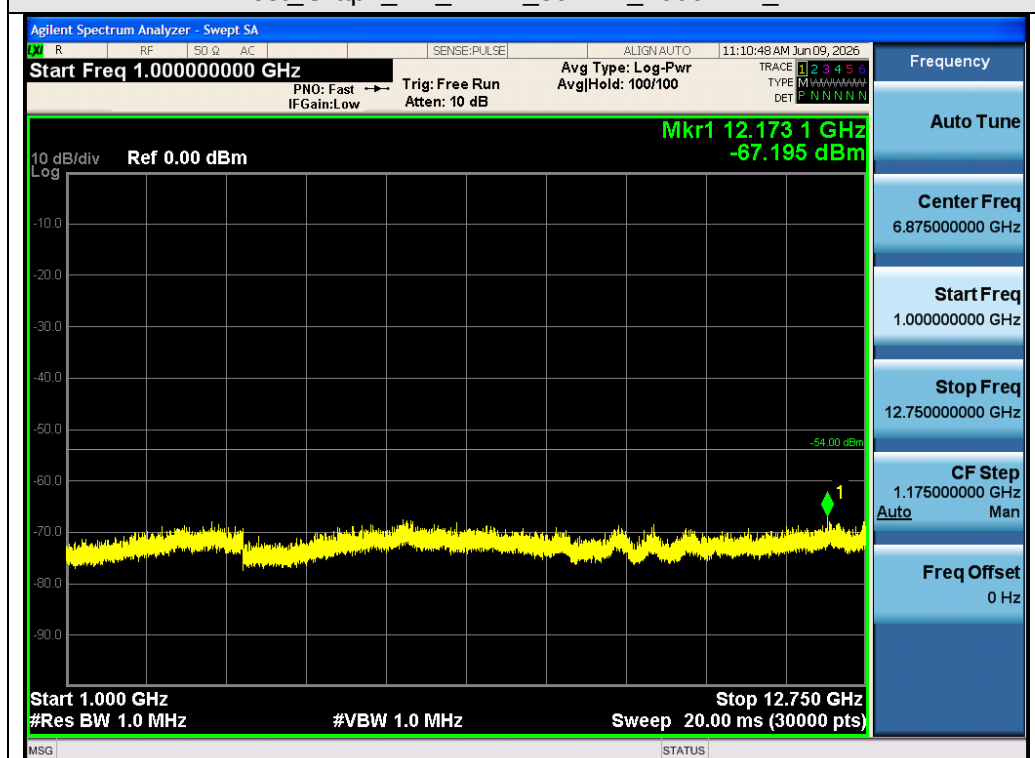
Test Data of Secondary Radiated Emission Strength								
Voltage	Mode	Channel (MHz)	Frequency Range (MHz)	Frequency (MHz)	Result (dBm)	Result (nW)	Limit (nW)	P/F
NV	RX	806.375	30~1000	845.47	-80.148	0.010	4	Pass
NV	RX	806.375	1000~12750	12173.1	-67.195	0.191	4	Pass
LV	RX	806.375	30~1000	830.47	-80.807	0.008	4	Pass
LV	RX	806.375	1000~12750	12732.8	-67.538	0.176	4	Pass
HV	RX	806.375	30~1000	770.33	-81.051	0.008	4	Pass
HV	RX	806.375	1000~12750	6000.6	-67.165	0.192	4	Pass

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Test Graphs of Receiver Spurious

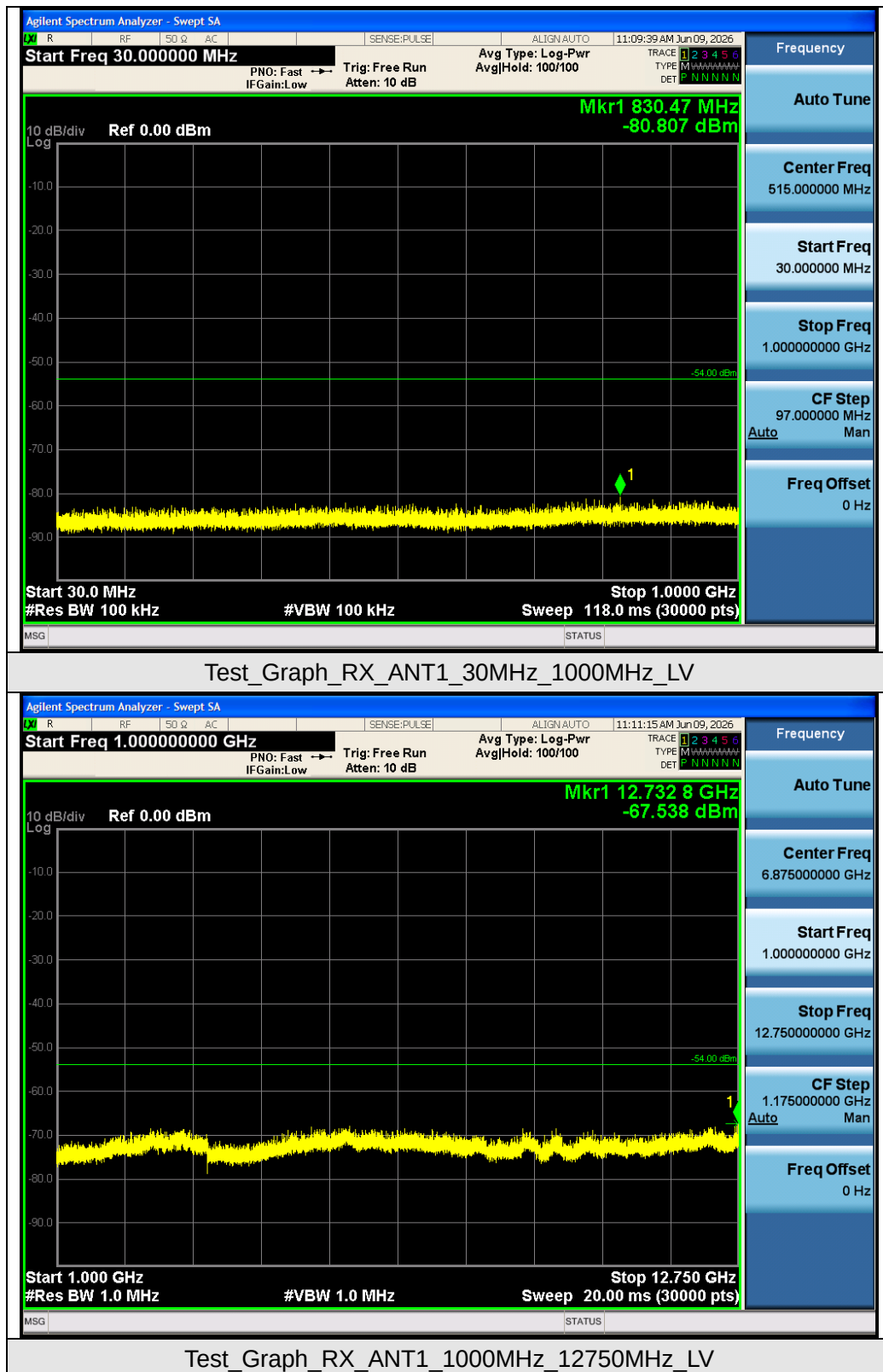


Test_Graph_RX_ANT1_30MHz_1000MHz_NV

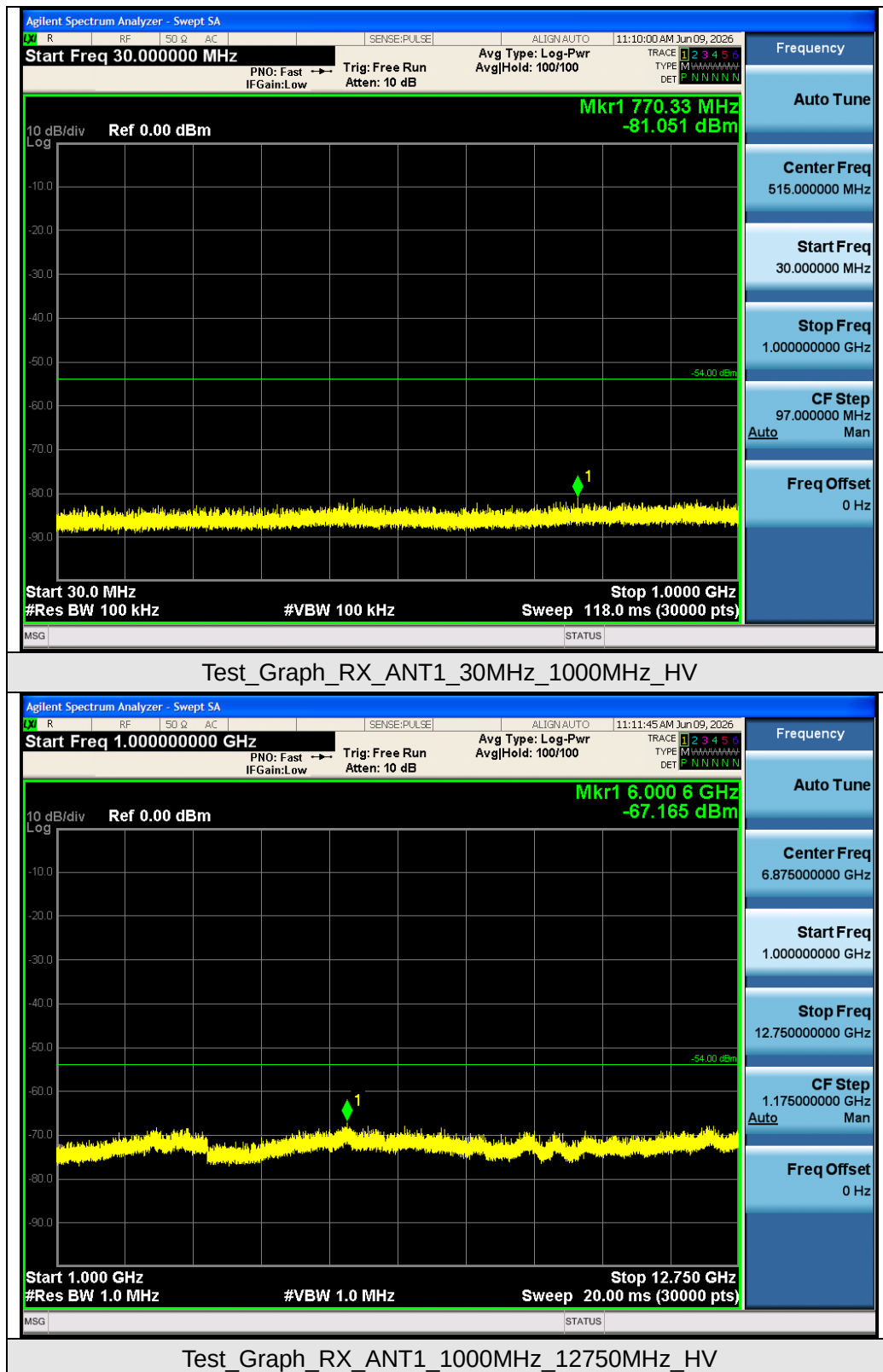


Test_Graph_RX_ANT1_1000MHz_12750MHz_NV

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5.6. Transmission Antenna Gain (EIRP Antenna Power) Measurement

Test Limit

Test Item	Limits
EIRP Power	$\leq 10\text{dBm/MHz}$
Note: The test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less	

Test Procedure

The following table is the setting of spectrum analyzer.

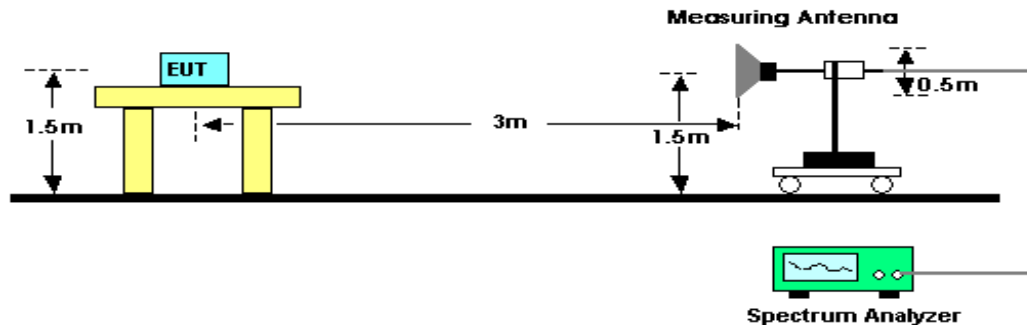
Spectrum Parameter	Setting
Attenuation	Auto
RBW/VBW	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

1. Set EUT ad measuring antenna at the same height and roughly facing each other.
2. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of the measuring antenna. The output level at the spectrum analyzer is read sa "E".
3. Remove the EUT from the turn table and put the replacing antenna facing to measuring antenna at same height. Set the standard signal generator (SSG) at same frequency and transmit on then receive the signal
4. Swing the replacing antenna give a maximum receiving level.
5. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of replacing antenna height and swing it to find the maximum receiving level.
6. Set SSG output power at Pt to give the equivalent output level of "E" or calculate Pt with SSG output which gives the nearest of "E" and difference ($\pm 1\text{dB}$). Record the Pt.
7. Calculate EIRP by the formula below $\text{EIRP} = \text{Gt} - \text{L} + \text{Pt}$.
Gt: gain of replacing antenna (dBi)
L: feeder loss between SSG and replacing antenna
Pt: Output power of the SSG
8. If the antenna for the EUT has circular polarization, sum of V-field and H-field will be result if measuring antenna is linear polarization.

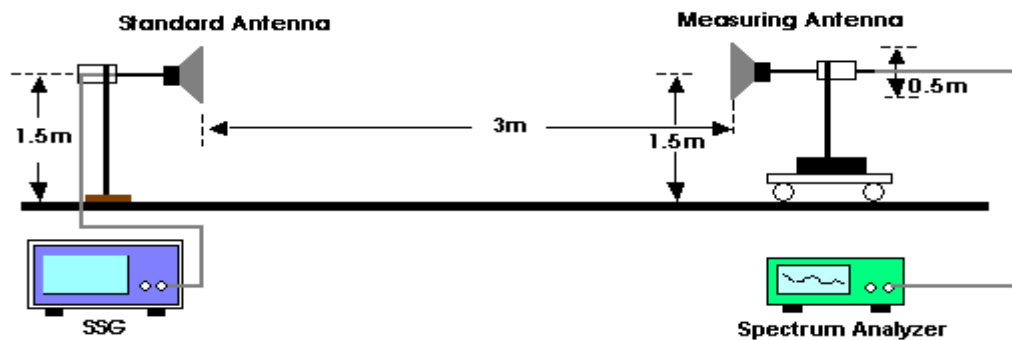
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Test Setup

For EUT radiation measurement



For standard antenna measurement



Test Result

Test Temperature	22.8 °C	Relative Humidity	56.9 %
Test Engineer	Vicky	Testing Time	2026-06-09

Test Data of E.I.R.P.									
Test Frequency (MHz)	Antenna Power (dBm)			Antenna Gain (dBi)	E.I.R.P. (dBm)			Limit (dBm)	P/F
	NV	LV	HV		NV	LV	HV		
806.375	-4.032	-4.026	-4.046	1.5	-2.532	-2.526	-2.546	10	Pass
806.750	-3.775	-3.77	-3.782	1.5	-2.275	-2.270	-2.282	10	Pass
807.125	-3.89	-3.881	-3.89	1.5	-2.390	-2.381	-2.390	10	Pass
808.125	-5.115	-5.11	-5.118	1.5	-3.615	-3.610	-3.618	10	Pass
808.625	-4.014	-4.011	-4.02	1.5	-2.514	-2.511	-2.520	10	Pass
809.125	-4.948	-4.296	-4.208	1.5	-3.448	-2.796	-2.708	10	Pass

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5.7. Transmission Radiation Angle Width (3db Beamwidth) Measurement

Test Limit

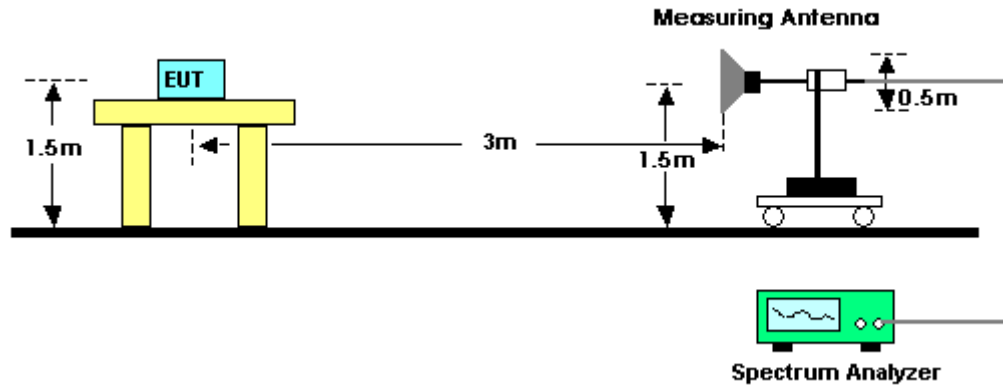
Item	Limits
3dB antenna beamwidth	$360/A$ (If $A < 1$; then $A = 1$) $A = \{\text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM}\}$ or $A = \{\text{EIRP Power [mW]} / 4.9 \text{ for FH}\}$
Note: The test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less	

Test Procedure

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RBW	1 MHz
VBW	1 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with condition in section 4.7.2 and tune reference level to observe receiving signal position.
3. Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E".
5. Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
6. Calculate 3dB antenna beam width by the formula below $360/A$ (If $A < 1$; then $A = 1$). $A = \{\text{EIRP Power [mW]} / 10\text{mW}\}$.

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Test Setup**Test Result**

Note: not applicable.

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5.8. Adjacent Channel Leakage Power

Test Limit

Item	Limits
Adjacent channel leakage power	-40dBc(375kHz offset, +/-96kHz BW)

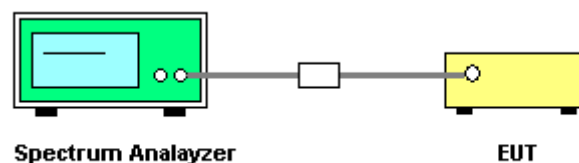
Test Procedure

The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
SPAN	800kHz
RBW/VBW	3kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: RB: 3000 Hz / VB: 3000 Hz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
3. SA set the Channel Power Function and Channel Bandwidth: 110kHz and Center Frequency: The center frequency of testing for EUT. Then SA automatically calculate the channel power of EUT and A is representative of this channel power.
4. SA set the Channel Power Function and Channel Bandwidth: 110kHz and Center Frequency: The center frequency of testing for EUT±250kHz.

Test Setup



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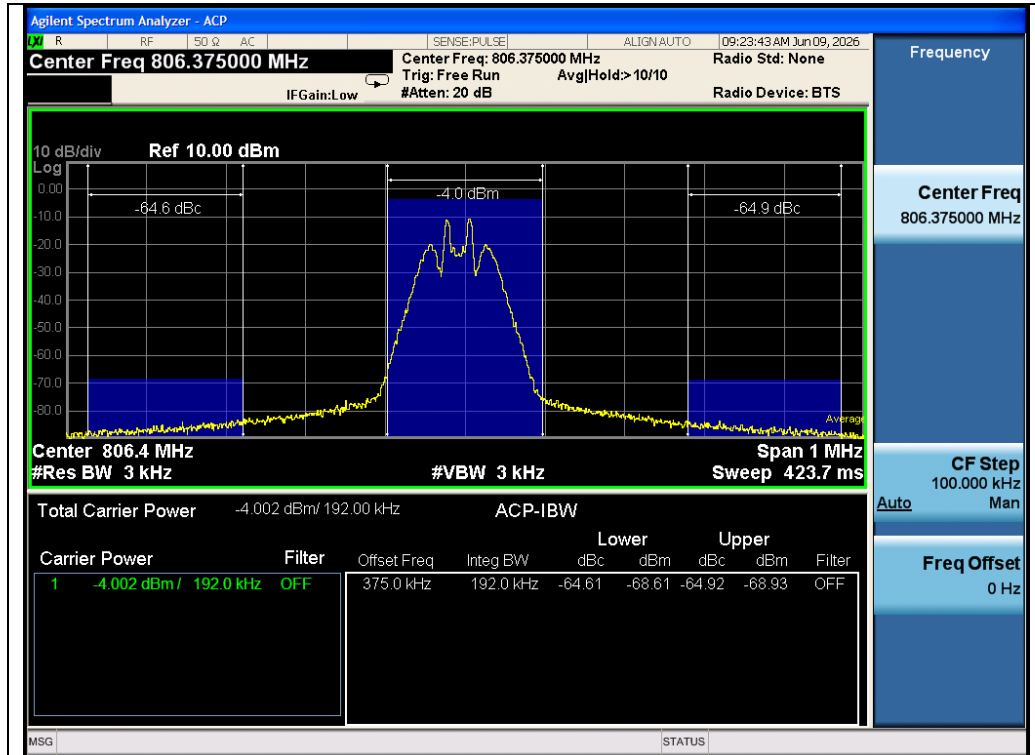
Test Results

Test Temperature	21.6 °C	Relative Humidity	58.9 %
Test Engineer	Vicky	Testing Time	2026-06-09

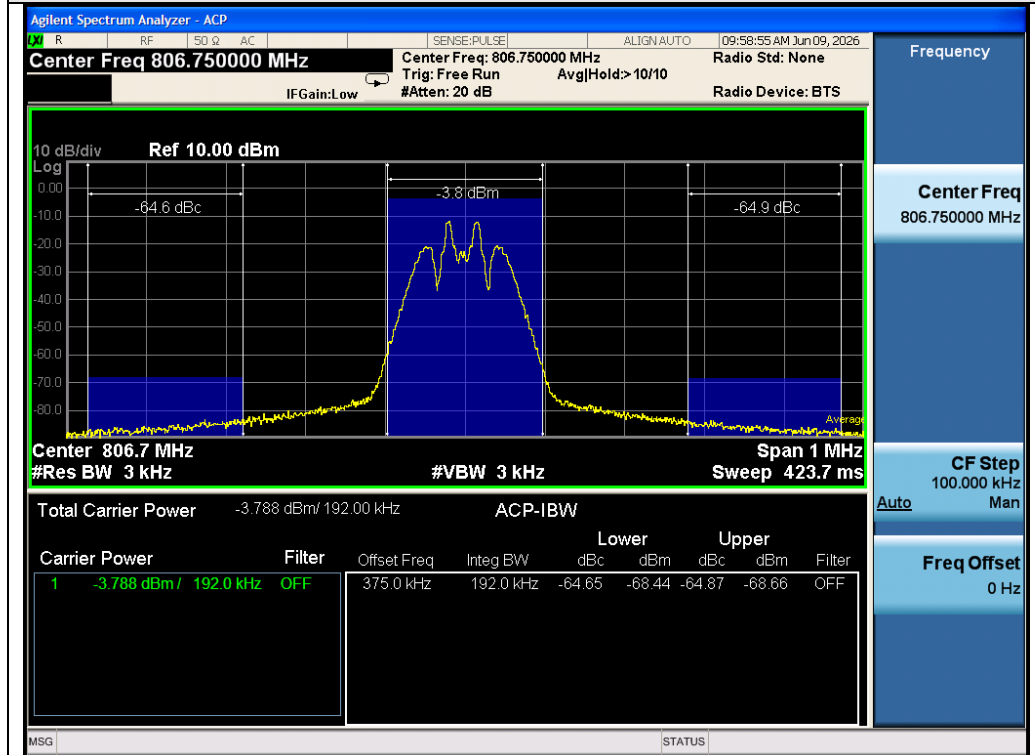
Test Data of Transmission Antenna Gain									
Test Mode	Test Frequency (MHz)	ACP(dBc)						Limit (dBc)	P/F
		Adjacent Channel at -375kHz			Adjacent Channel at +375kHz				
		NV	LV	HV	NV	LV	HV		
FSK	806.375	-64.61	-64.66	-64.59	-64.92	-64.90	-65.03	-40	Pass
	806.750	-64.65	-64.63	-64.50	-64.87	-64.77	-64.91	-40	Pass
	807.125	-64.38	-64.38	-64.33	-64.87	-64.90	-64.82	-40	Pass
	808.125	-64.24	-64.17	-64.19	-64.60	-64.61	-64.67	-40	Pass
	808.625	-64.39	-64.37	-64.45	-64.78	-64.77	-64.75	-40	Pass
	809.125	-64.46	-64.48	-64.55	-64.94	-64.84	-64.86	-40	Pass

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Test Graphs of Transmission Antenna Gain

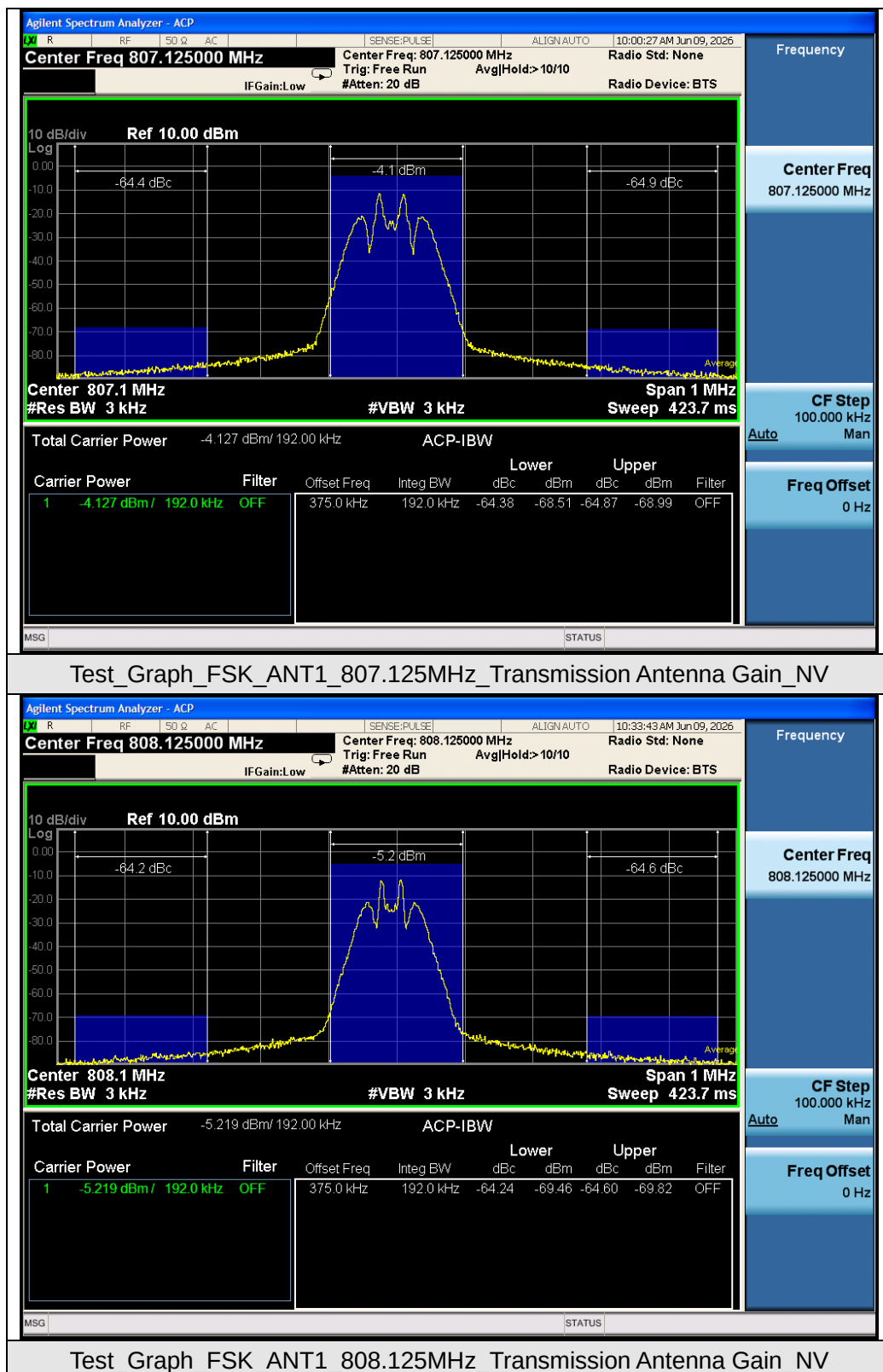


Test_Graph_FSK_ANT1_806.375MHz_Transmission Antenna Gain_NV



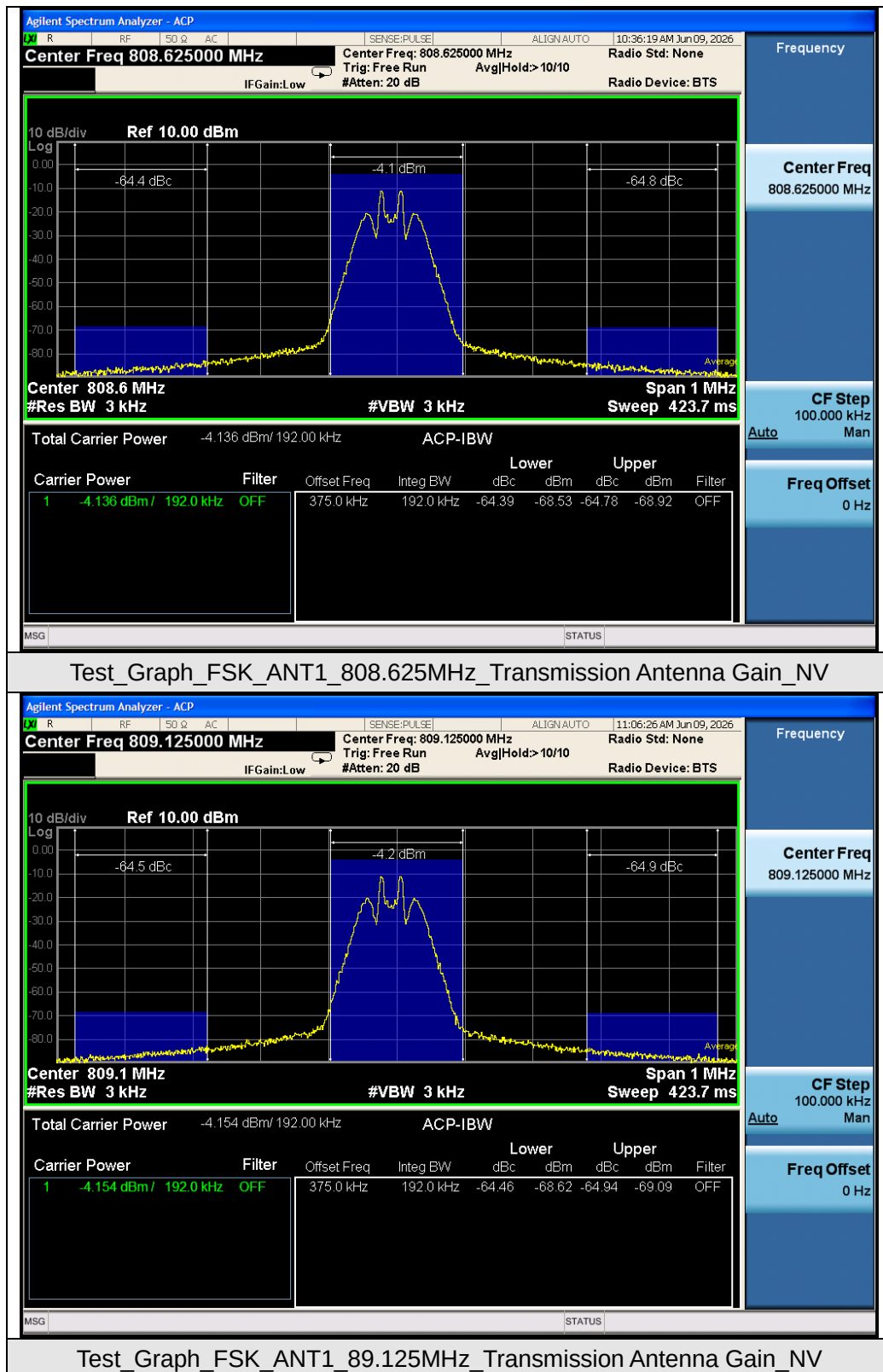
Test_Graph_FSK_ANT1_806.750MHz_Transmission Antenna Gain_NV

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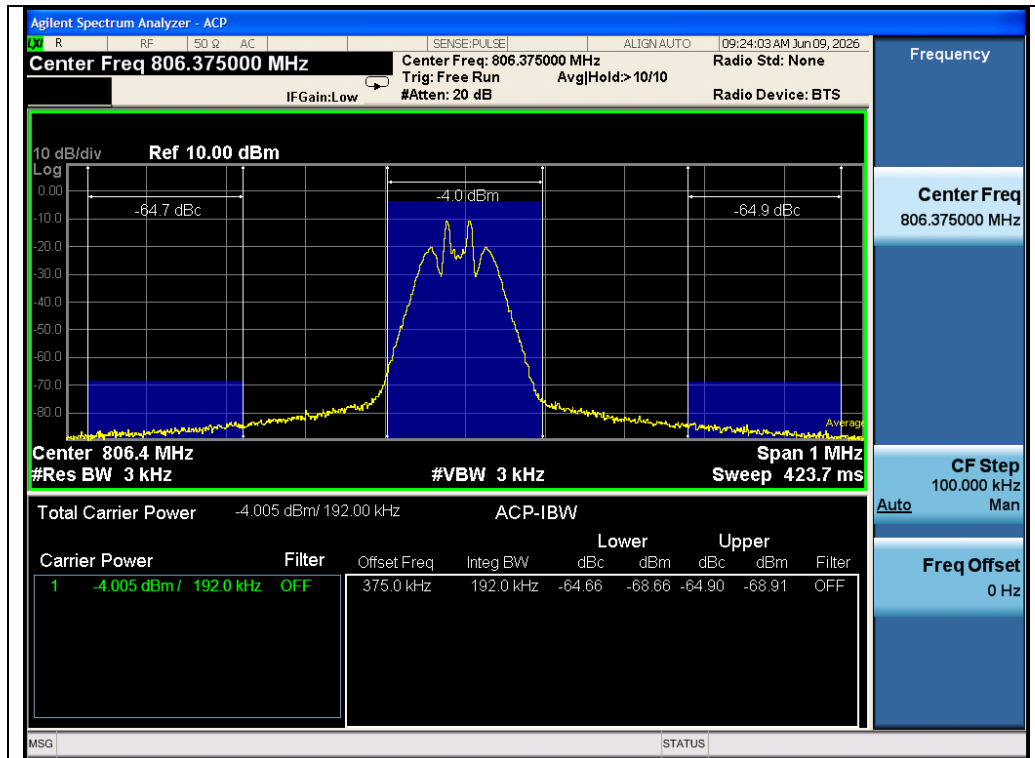


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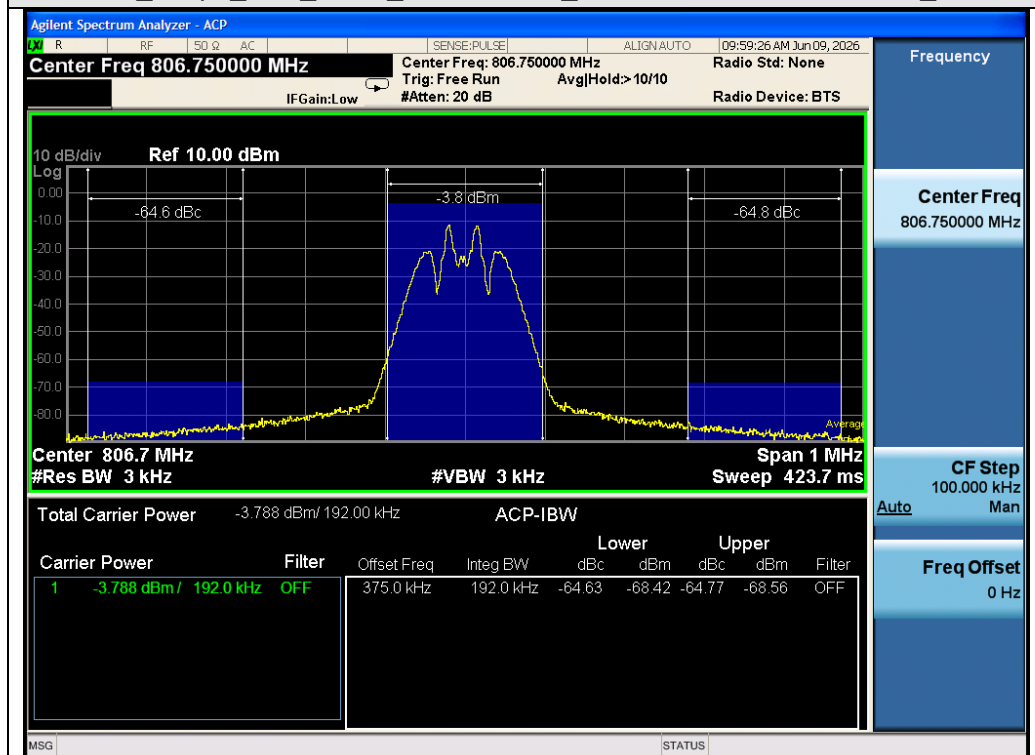
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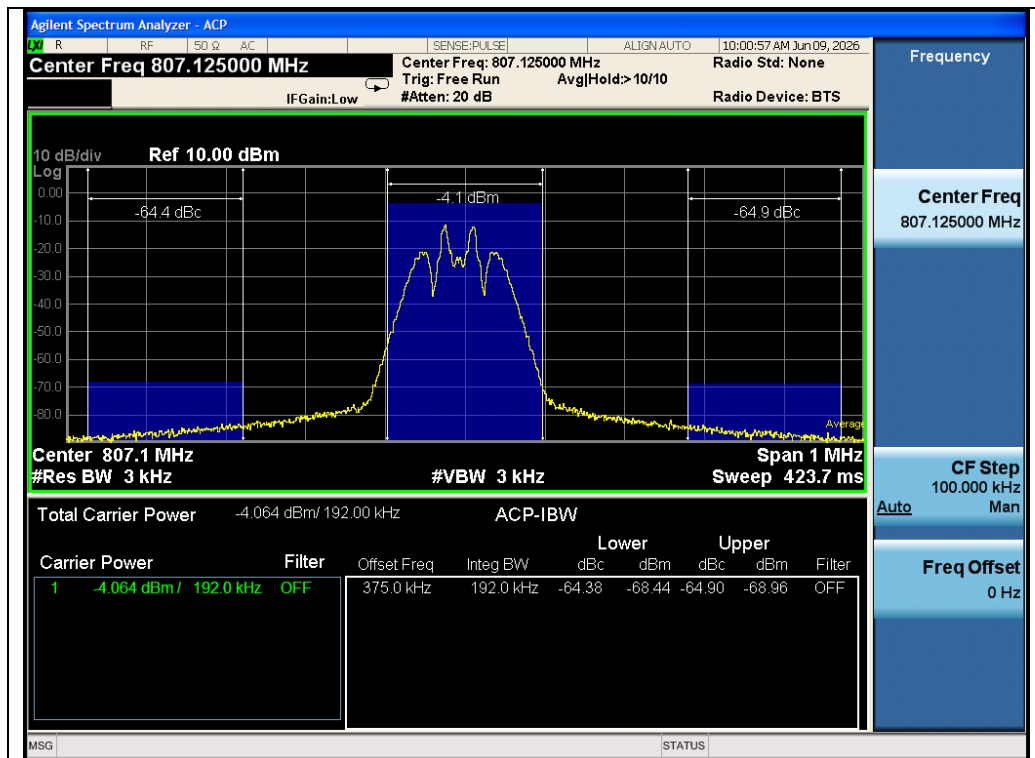


Test_Graph_FSK_ANT1_806.375MHz_Transmission Antenna Gain_LV

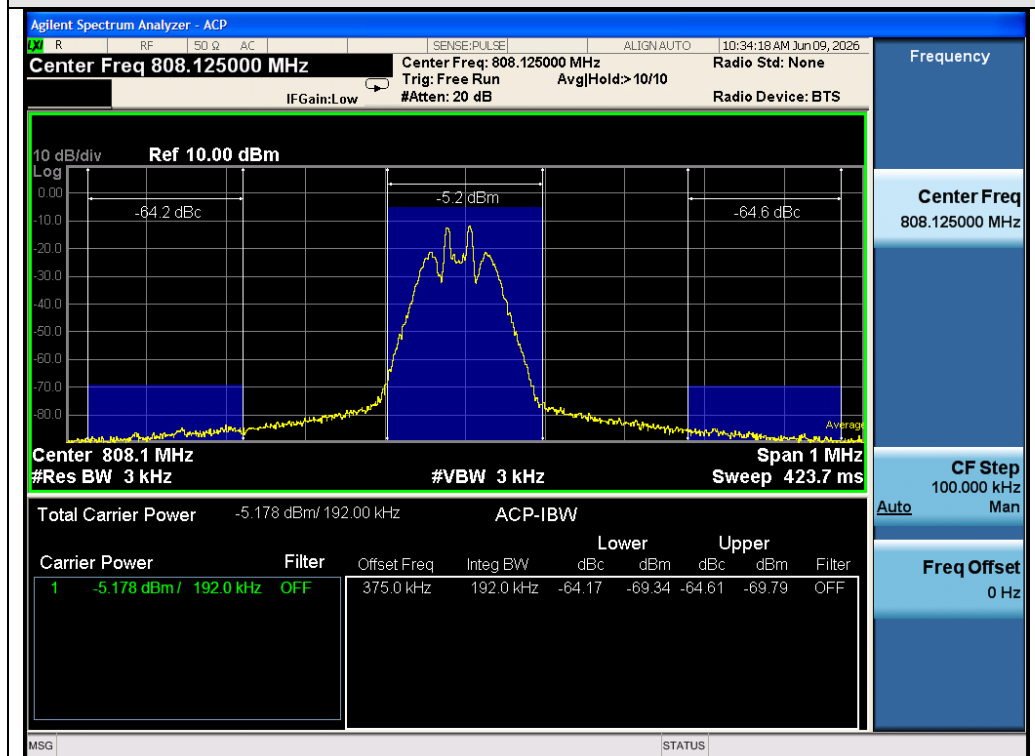


Test_Graph_FSK_ANT1_806.750MHz_Transmission Antenna Gain_LV

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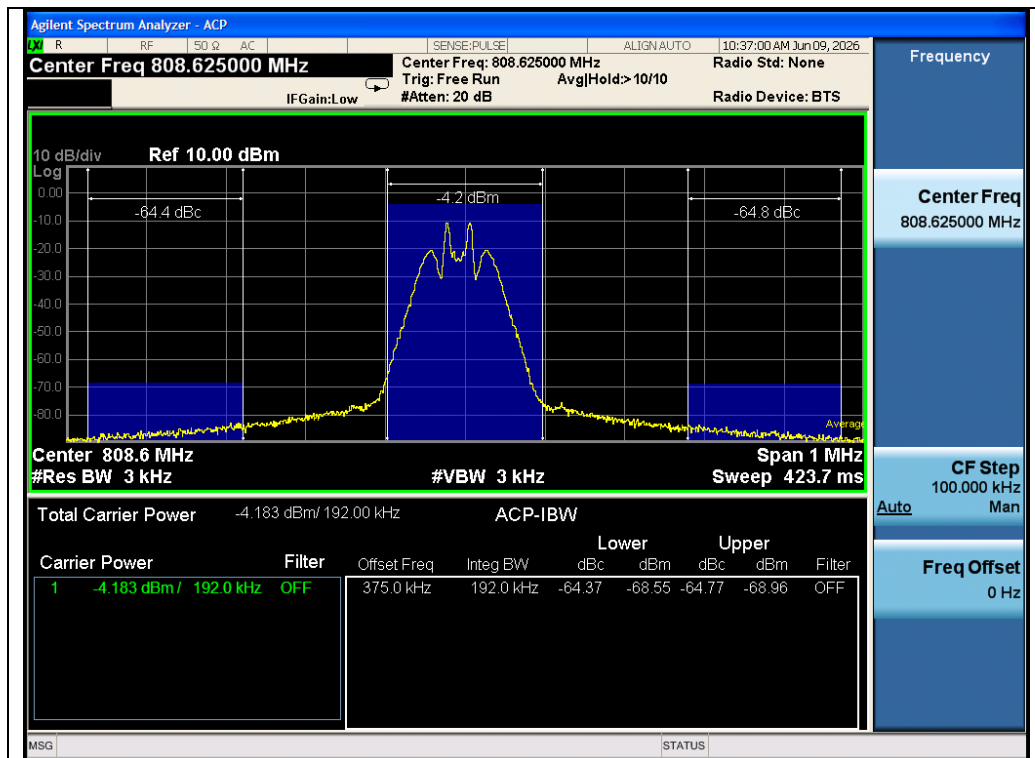


Test_Graph_FSK_ANT1_807.125MHz_Transmission Antenna Gain_LV

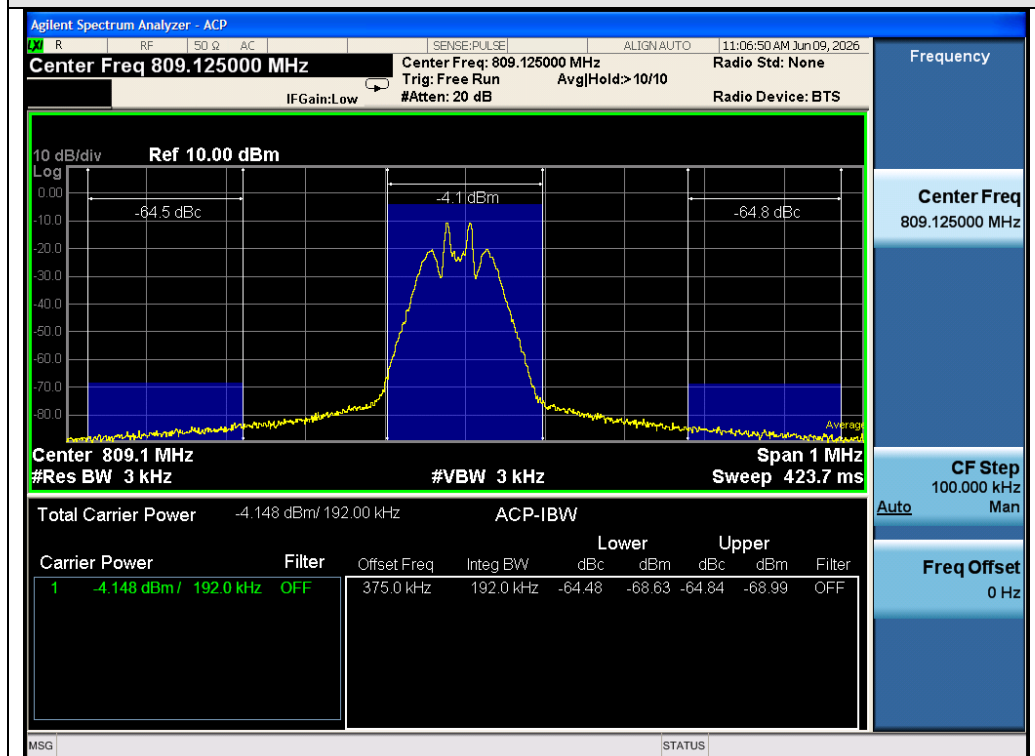


Test_Graph_FSK_ANT1_808.125MHz_Transmission Antenna Gain_LV

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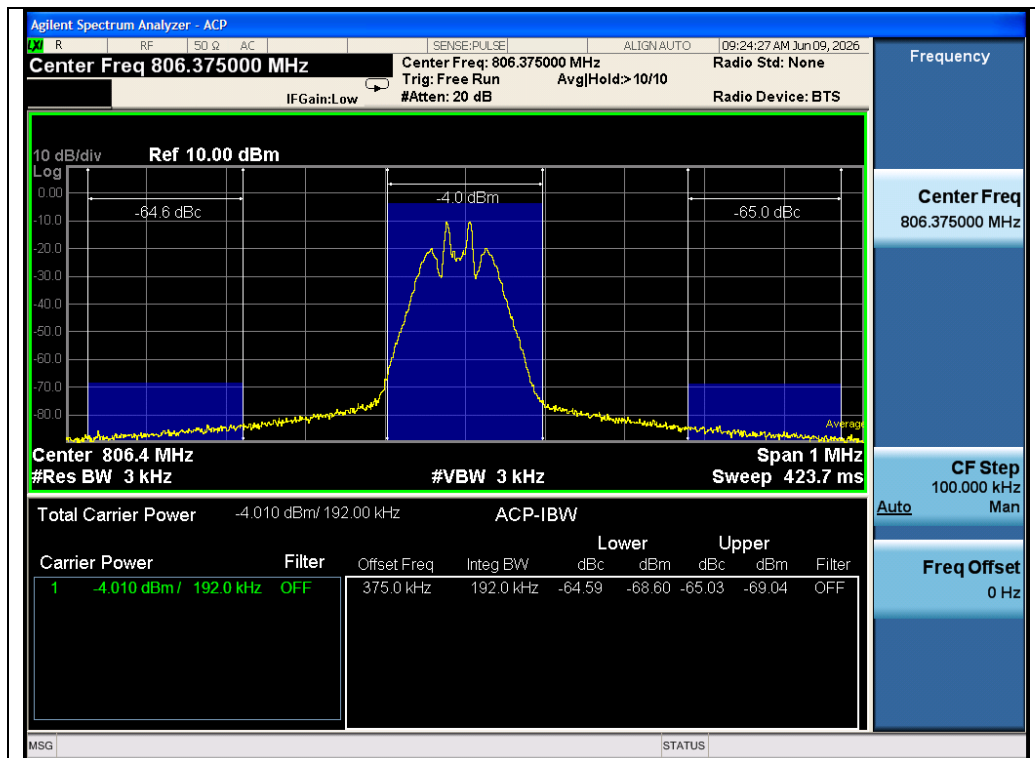


Test_Graph_FSK_ANT1_808.625MHz_Transmission Antenna Gain_LV

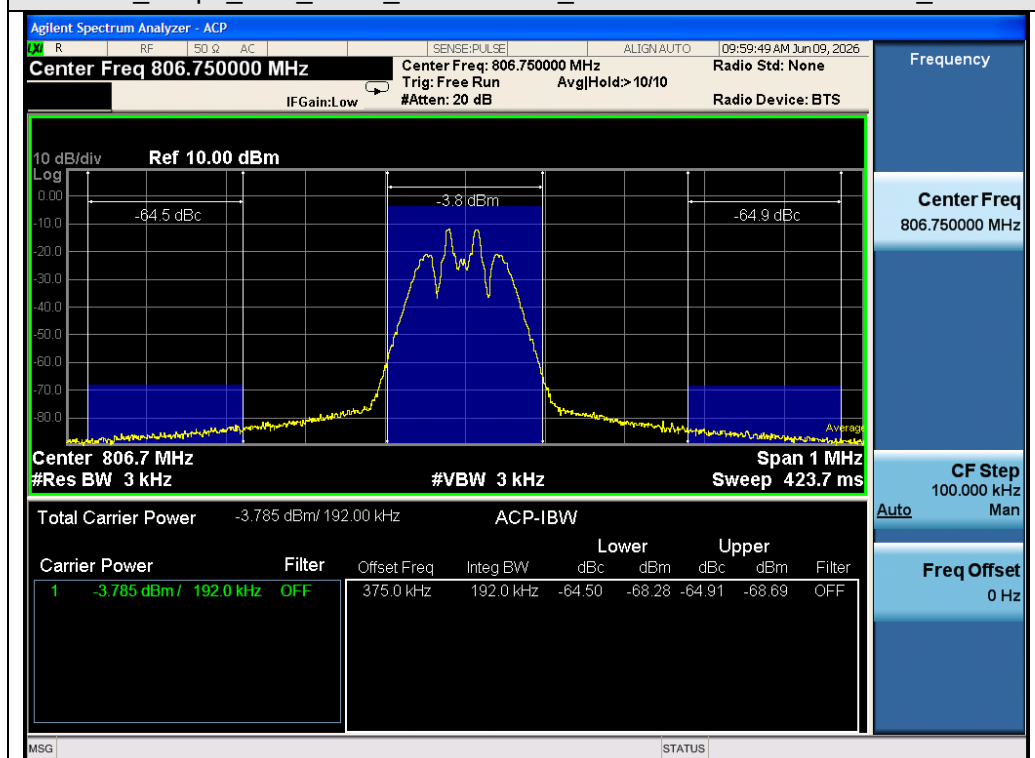


Test_Graph_FSK_ANT1_89.125MHz_Transmission Antenna Gain_LV

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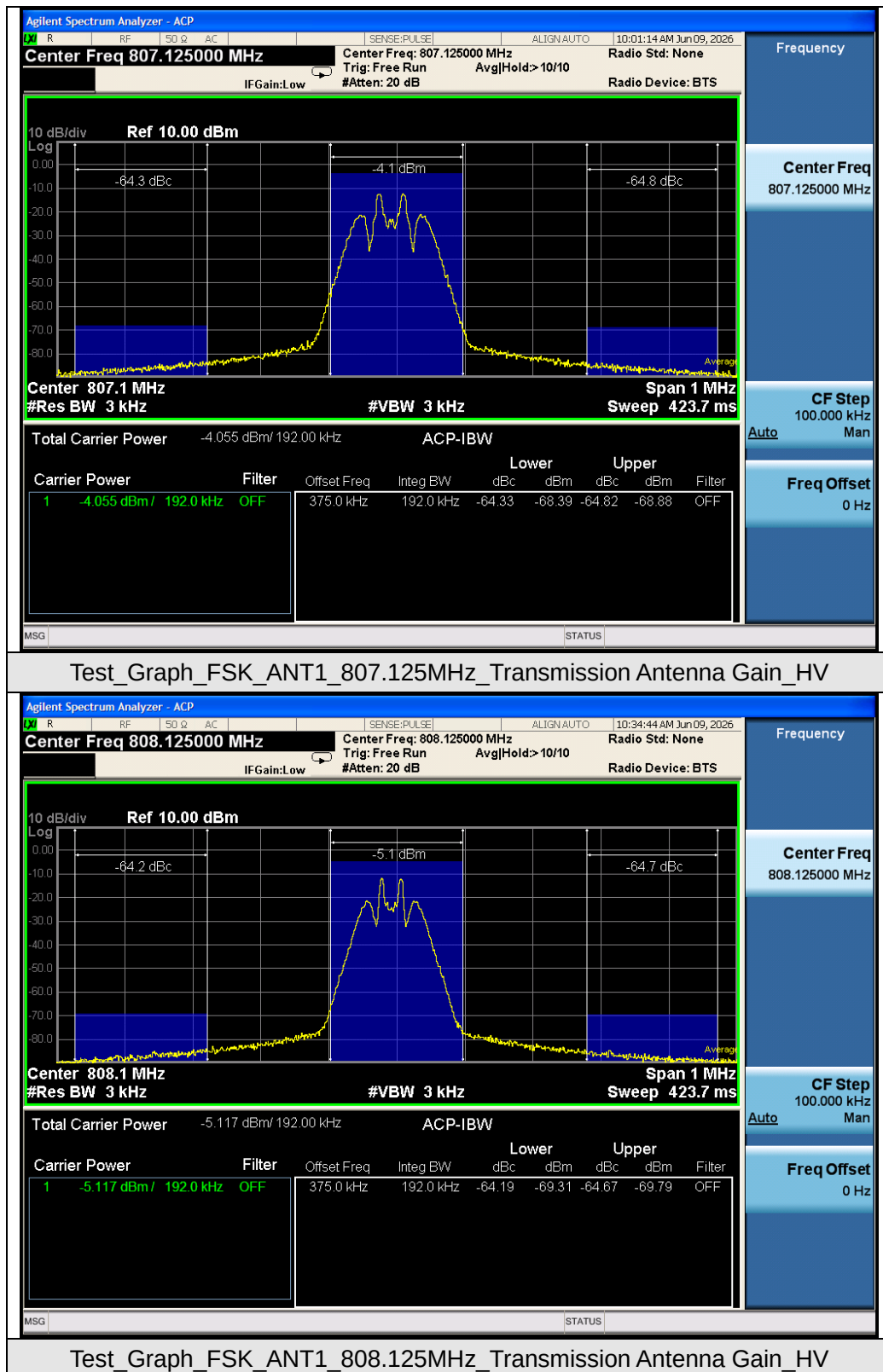
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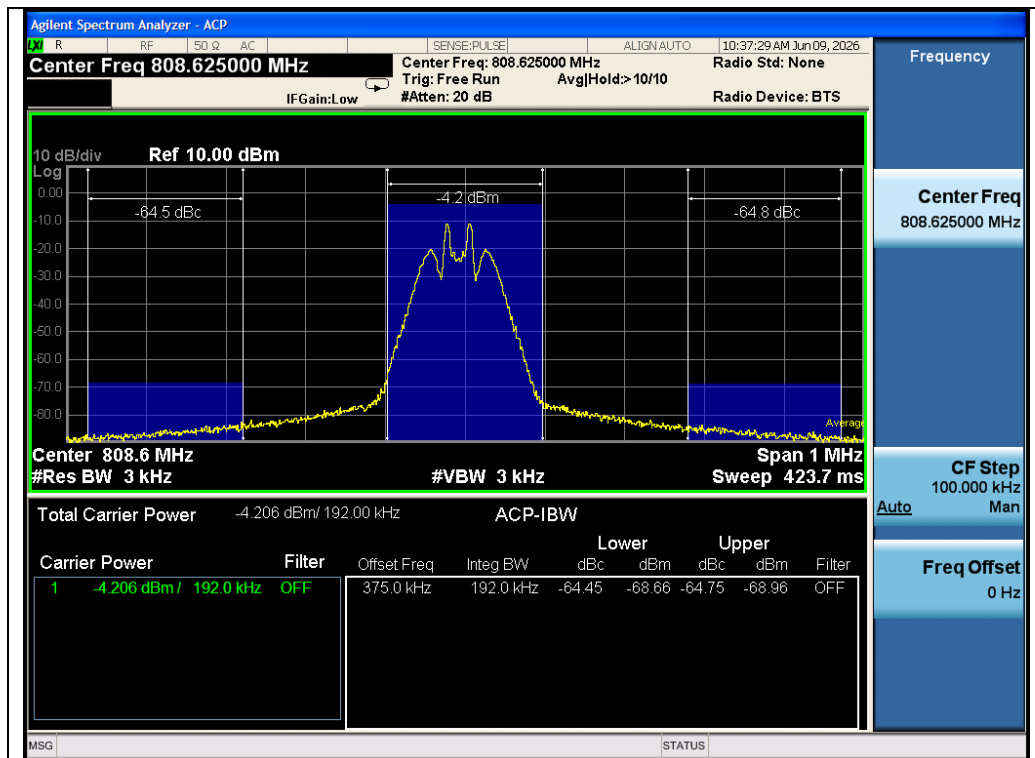
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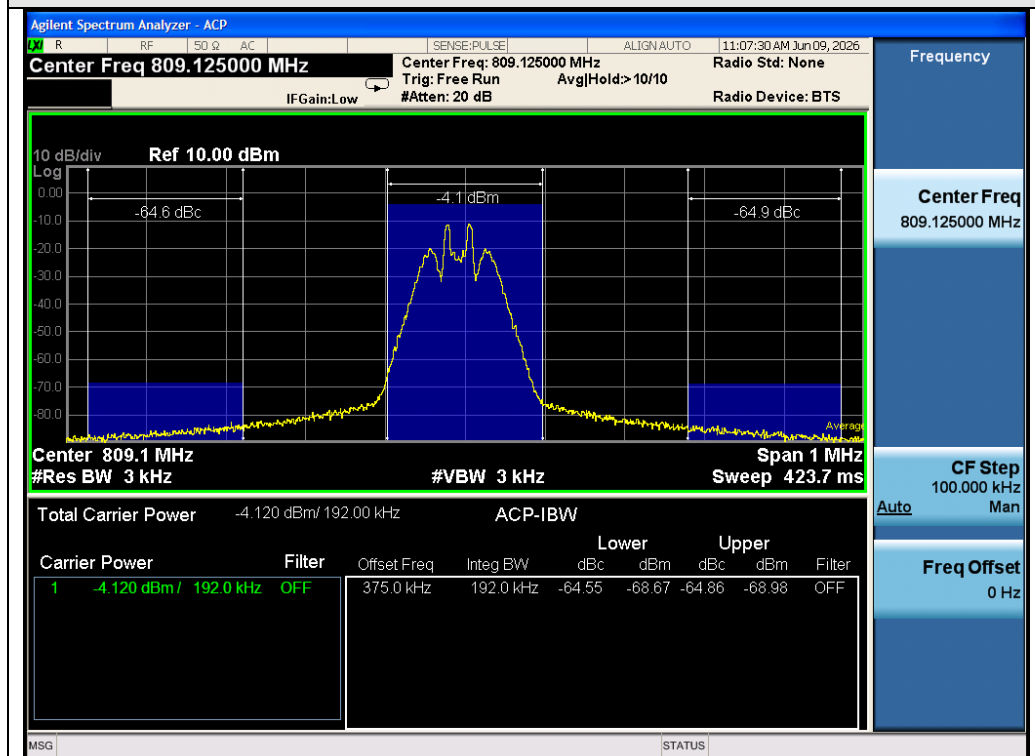
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Test_Graph_FSK_ANT1_808.625MHz_Transmission Antenna Gain_HV



Test_Graph_FSK_ANT1_89.125MHz_Transmission Antenna Gain_HV

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5.9. Housing Requirements

Test Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

Confirmation Method

The RF and modulation portions are protected against illegal modification as following method:

Protected Method	Description
Module Package	Module Package of RF (KT0641) and Modulation (TX: 24MHz) portions is QFP type. (Chip pin number: 24 /Chip pin angle spacing: 0.4mm)
Enclosure	The enclosure is blocked by buckles and it cannot be opened easily. Otherwise, the device will be damaged.
User manual	We will add some warning statements on the user manual to against illegal modification.

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC00688260505AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC00688260505AP02

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

-----End of Report-----

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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