

Japan Radio Test Report

for

Tablet

Model:

G9,G9L,G10,G10L,G11,G11L,G12,G12L,G15,G15L,G16,G16L,G16PRO,G17,
G17L,G18,G18L,G19,G19L,G20,G20L,G20PRO

Trade Mark: NA

Test Report Number: WSCT-R&E250900604A-Wi-Fi5G

Issued Date: 17 September 2025

Issued for

Shenzhen Efercro Electronic Technology Co., Ltd.

Room 901, Block E, Building 1, Section 1, Chuangzhi Yuncheng, Liuxian Avenue, Xili
Community, Xili Street, Nanshan District, Shenzhen

Issued By

World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.

Building J-7F and Building D, Dongjiang Science & Technology Park,
Tangjia Community, Fenghuang Street, Guangming District, Shenzhen
City, Guangdong Province, China

TEL: +86-755-23695561

FAX: +86-755-86376605

Note: This report shall not be reproduced except in full, without the written approval of World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. This document may be altered or revised by World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Revision History Of Report

Rev.	Issue No.	Revisions	Effect Page	Revised By
00	WSCT-R&E250900604A-Wi-Fi5G	Initial Issue	ALL	Chen Xu

TABLE OF CONTENTS

1	TEST CERTIFICATION	4
2	TEST SUMMARY	5
3	GENERAL INFORMATION	6
4.	FREQUENCY TOLERANCE TEST	11
5.	OCCUPIED BANDWIDTH (99%) TEST	45
6.	SPURIOUS AND UNWANTED EMISSIONS	112
7.	ANTENNA POWER TEST	273
8.	ADJACENT CHANNEL LEAKAGE POWER	281
9.	BURST TRANSMISSION DURATION	320
10.	SECONDARY RADIATED EMISSIONS	353
11.	CARRIER SENSE	419
12.	INTERFERENCE PREVENTION FUNCTION	421
13	APPENDIX I -- TEST SETUP PHOTOGRAPH	422
14	APPENDIX II -- PHOTOGRAPHS OF EUT	423



Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

1 TEST CERTIFICATION

Product: Tablet

Model: G9,G9L,G10,G10L,G11,G11L,G12,G12L,G15,G15L,G16,G16L,
G16PRO,G17,G17L,G18,G18L,G19,G19L,G20,G20L,G20PRO

Trade Mark: NA

Applicant: **Shenzhen Efercro Electronic Technology Co., Ltd.**
Room 901, Block E, Building 1, Section 1, Chuangzhi Yuncheng, Liuxian
Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen

Manufacturer: **Shenzhen Efercro Electronic Technology Co., Ltd.**
Room 901, Block E, Building 1, Section 1, Chuangzhi Yuncheng, Liuxian
Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen

Tested: 18 August 2025 ~ 17 September 2025

Applicable Standards: MIC Public Notice 88: 2004, Annex 45
Certification Ordinance, Article 2, Paragraph 1, Item 19-3

TRF No.:

Deviation from Applicable Standard
None

The above equipment has been tested by World Standardization Certification & Testing Group (Shenzhen) Co., Ltd., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Wang Xiang

(Wang Xiang)

Checked By:

Chen Xu

(Chen Xu)

Approved By:

Qi Shuiquan

(Qin Shuiquan)

Date:

17 September 2025

Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

2 Test Summary

Test Standard	Description of Test	Result
Article 2, Paragraph 1, Item 19-3	Frequency Tolerance	Compliance
	Antenna Power& Output Power Tolerance	Compliance
	Occupied Bandwidth	Compliance
	Unwanted Emission Strength/Spurious Area	Compliance
	Adjacent Channel Leakage Power	Compliance
	Outband Leakage Power	Compliance
	Secondary Radiated Emission Strength	Compliance
	Transmission Burst Length	Compliance
	Carrier Sensing Function	Compliance
	Interference prevention function	Compliance
	EIRP	Compliance

Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

3 General Information

3.1 General Description of E.U.T.

Product	Tablet
Model	G9,G9L,G10,G10L,G11,G11L,G12,G12L,G15,G15L,G16,G16L,G16PRO,G17,G17L,G18,G18L,G19,G19L,G20,G20L,G20PRO
Trade Mark	NA
Software Version	Android
Hardware Version	G6_MB_V1.32
Antenna gain	1.12dBi
EUT Type	☒ Engineering Sample. ☐ Product Sample, ☐ Mass Product Sample.
Antenna Type	Integral Antenna
Test Power	Adapter:TPA-203A120167UF01 Input: 100-240V~50/60Hz 0.6A Output: 5.0V---3.0A or 9.0V---2.22A or 12.0V---1.67A Lithium Rechargeable Battery: Model No/Modell:3295175 Capacity:3.8V 8400mAh
Type of the Equipment	Portable Equipment
Frequency Range	WIFI: Band 1: 5150-5250 MHz(TX/RX) Band 2: 5250-5350 MHz(TX/RX) Band 3: 5470-5725 MHz(TX/RX)
Modulation type	DSSS (DBPSK, DQPSK, CCK) for IEEE 802.11b IEEE 802.11a/n/ac: OFDM IEEE 802.11ax: OFDM /OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)

Models difference

G9,G9L,G10,G10L,G11,G11L,G12,G12L,G15,G15L,G16,G16L,G16PRO,G17,G17L,G18,G18L,G19,G19L,G20,G20L,G20PRO for series models,the only differences are the appearance colour and model no.for trading purpose.The above appearance is for color and silk-screen only,KB1001 is the main test model

Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

3.2 General condition

Ambient Condition: 25 °C 56 %RH

3.3 Environmental condition of test site

	Normal Test Conditions	Extreme Test Conditions
Temperature	25°C	LT:-5°C ;HT: 45°C
Relative Humidity	56%	N/A
Supply Voltage	DC 3.8V	LV:DC 3.5V; HV:4.35V

NT: Normal Temperature; LV:Low Voltage 3.5V;NV: Normal Voltage 3.8V;HV:High Voltage 4.35V.

Note: The EUT has voltage regulator chips, so Conduct the test with the rated voltage only.

Test Voltage Information		
Power supply voltage 3.8VDC(Normal)	Power supply voltage 3.5V DC(-10%)	Power supply voltage 4.35V DC(+10%)
RF module voltage DC 3.3V	RF module voltage DC 3.3V	RF module voltage DC 3.3V
When EUT be operated at 10% from the normal supply voltage, the supply voltage of RF part was varied within 1%. All test cased were done under the normal supply voltage.		
Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.		

Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

3.4 Channel List

Channel	Center Frequency (MHz)	Frequency Range (MHz)	Bandwidth (MHz)
36	5180	5170-5190	20
40	5200	5190-5210	20
44	5220	5210-5230	20
48	5240	5230-5250	20
52	5260	5250-5270	20
56	5280	5270-5290	20
60	5300	5290-5310	20
64	5320	5310-5330	20
100	5500	5490-5510	20
104	5520	5510-5530	20
108	5540	5530-5550	20
112	5560	5550-5570	20
116	5580	5570-5590	20
120	5600	5590-5610	20
124	5620	5610-5630	20
128	5640	5630-5650	20
132	5660	5650-5670	20
136	5680	5670-5690	20
144	5720	5710-5730	20
38	5190	5170-5210	40
46	5230	5210-5250	40
54	5270	5250-5290	40
62	5310	5290-5330	40
102	5510	5490-5530	40
110	5550	5530-5570	40
118	5590	5570-5610	40
126	5630	5610-5650	40
134	5670	5650-5690	40
142	5710	5690-5730	40
42	5210	5170-5250	80
58	5290	5250-5330	80
106	5530	5490-5570	80
122	5610	5570-5650	80
138	5690	5650-5730	80

Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

42	5210	5170-5250	80
58	5290	5250-5330	80
106	5530	5490-5570	80
122	5610	5570-5650	80
138	5690	5650-5730	80

3.5 Test Mode

The EUT has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

802.11a/ 802.11n(20MHz)/ac(20MHz)/ax(20MHz) (W52 & W53):

Test Mode	Channel	Frequency(MHz)
Transmitter/Receiver	36	5180
	48	5240
	52	5260
	64	5320

802.11n(40MHz)/ac(40MHz) /ax(40MHz) (W52 & W53):

Test Mode	Channel	Frequency(MHz)
Transmitter/Receiver	38	5190
	46	5230
	54	5270
	62	5310

802.11ac(80MHz) /ax(80MHz) (W52 & W53)::

Test Mode	Channel	Frequency(MHz)
Transmitter/Receiver	42	5210
	58	5290

802.11a/ 802.11n(20MHz)/ac(20MHz)/ax(20MHz) (W56):

Test Mode	Channel	Frequency(MHz)
Transmitter/Receiver	100	5500
	120	5600
	144	5720

802.11n(40MHz)/ac(40MHz) /ax(40MHz) (W56):

Test Mode	Channel	Frequency(MHz)
Transmitter/Receiver	102	5510
	118	5590
	134	5670
	142	5710

802.11ac(80MHz) /ax(80MHz) (W56)::

Test Mode	Channel	Frequency(MHz)
Transmitter/Receiver	106	5530
	122	5610
	138	5690

Note: Worst data rate (worst case) are chosen for the final testing.

Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

3.6 Test Equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	Use or Not
EMI Test Receiver	R&S	ESR7	102817	2025-04-18	2026-04-17	☒
Bi-log Antenna	SCHWARZBECK	VULB9168	01664	2025-04-20	2026-04-19	☒
Horn Antenna	R&S	BBHA 9120D	01801	2025-04-19	2026-04-18	☒
pre-amplifier	SCHWARZBECK	CC-AMP-N-6G	231023-6GHZ	2025-04-18	2026-04-17	☒
Spectrum analyzer	Agilent Technologies	N9020A	MY53371004	2025-03-06	2026-03-05	☒
Spectrum analyzer	Agilent Technologies	N9010B	MY63390117	2025-04-18	2026-04-17	☒
Vector Signal Source	Agilent Technologies	N5182A	MY48180819	2025-03-06	2026-03-05	☒
Analog signal source	R&S	E8257D	MY49280264	2025-03-06	2026-03-05	☒
Power meter	Agilent Technologies	E9340A	US39400100	2025-03-06	2026-03-05	☒
Anechoic chamber	mr-emc	966	-	2023-05-30	2026-05-29	☒
Universal Radio Communication Tester	R&S	CMW500	139123	2025-03-06	2026-03-05	☒

3.7 Test Configuration



Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

4. FREQUENCY TOLERANCE TEST

4.1. Test Limit

Test Limit	±20 ppm
------------	---------

4.2. Test Equipment

Same as 3.6.

4.3. Test Configuration

Same as 3.7.

4.4. Test Procedure

1. For unmodulated wave (continuous wave or continuing burst wave), measure the frequency using a frequency meter.
2. For burst wave, continue the measurement through enough long period (20 or more of burst waves for example) to secure the accurate value and obtain the mean value to be used as the measured value.
3. For the test mode to generate peculiar spectrum, measure frequency of the spectrum using a spectrum analyzer.
4. If above measuring method does not measure the frequency corresponding to the test frequency in principle, obtain the frequency by reasonable calculation.
5. When EUT has plural antenna terminals, measure the frequency at each terminal.

Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

4.5. Test Data

PASS

Please refer to the following data.

Normal Voltage

Condition	Mode	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	5179.908	-92000	-17.76	±20	Pass
NVNT	a	5240	5239.907	-93000	-17.75	±20	Pass
NVNT	a	5260	5259.907	-93000	-17.68	±20	Pass
NVNT	a	5320	5319.908	-92000	-17.29	±20	Pass
NVNT	a	5500	5499.914	-86000	-15.64	±20	Pass
NVNT	a	5600	5599.922	-78000	-13.93	±20	Pass
NVNT	a	5720	5719.91	-90000	-15.73	±20	Pass
NVNT	n20	5180	5179.919	-81000	-15.64	±20	Pass
NVNT	n20	5240	5239.916	-84000	-16.03	±20	Pass
NVNT	n20	5260	5259.92	-80000	-15.21	±20	Pass
NVNT	n20	5320	5319.915	-85000	-15.98	±20	Pass
NVNT	n20	5500	5499.911	-89000	-16.18	±20	Pass
NVNT	n20	5600	5599.931	-69000	-12.32	±20	Pass
NVNT	n20	5720	5719.91	-90000	-15.73	±20	Pass
NVNT	n40	5190	5189.916	-84000	-16.18	±20	Pass
NVNT	n40	5230	5229.918	-82000	-15.68	±20	Pass
NVNT	n40	5270	5269.915	-85000	-16.13	±20	Pass
NVNT	n40	5310	5309.91	-90000	-16.95	±20	Pass
NVNT	n40	5510	5509.918	-82000	-14.88	±20	Pass
NVNT	n40	5670	5669.915	-85000	-14.99	±20	Pass
NVNT	n40	5710	5709.917	-83000	-14.54	±20	Pass
NVNT	ac20	5180	5179.913	-87000	-16.8	±20	Pass
NVNT	ac20	5240	5239.915	-85000	-16.22	±20	Pass
NVNT	ac20	5260	5259.911	-89000	-16.92	±20	Pass
NVNT	ac20	5320	5319.914	-86000	-16.17	±20	Pass

Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

NVNT	ac20	5500	5499.917	-83000	-15.09	±20	Pass
NVNT	ac20	5600	5599.916	-84000	-15	±20	Pass
NVNT	ac20	5720	5719.914	-86000	-15.03	±20	Pass
NVNT	ac40	5190	5189.92	-80000	-15.41	±20	Pass
NVNT	ac40	5230	5229.912	-88000	-16.83	±20	Pass
NVNT	ac40	5270	5269.916	-84000	-15.94	±20	Pass
NVNT	ac40	5310	5309.915	-85000	-16.01	±20	Pass
NVNT	ac40	5510	5509.914	-86000	-15.61	±20	Pass
NVNT	ac40	5670	5669.916	-84000	-14.81	±20	Pass
NVNT	ac40	5710	5709.91	-90000	-15.76	±20	Pass
NVNT	ac80	5210	5209.921	-79000	-15.16	±20	Pass
NVNT	ac80	5290	5289.915	-85000	-16.07	±20	Pass
NVNT	ac80	5530	5529.915	-85000	-15.37	±20	Pass
NVNT	ac80	5610	5609.917	-83000	-14.8	±20	Pass
NVNT	ac80	5690	5689.914	-86000	-15.11	±20	Pass
NVNT	ax20	5180	5179.916	-84000	-16.22	±20	Pass
NVNT	ax20	5240	5239.911	-89000	-16.98	±20	Pass
NVNT	ax20	5260	5259.916	-84000	-15.97	±20	Pass
NVNT	ax20	5320	5319.914	-86000	-16.17	±20	Pass
NVNT	ax20	5500	5499.917	-83000	-15.09	±20	Pass
NVNT	ax20	5600	5599.916	-84000	-15	±20	Pass
NVNT	ax20	5720	5719.908	-92000	-16.08	±20	Pass
NVNT	ax40	5190	5189.918	-82000	-15.8	±20	Pass
NVNT	ax40	5230	5229.917	-83000	-15.87	±20	Pass
NVNT	ax40	5270	5269.918	-82000	-15.56	±20	Pass
NVNT	ax40	5310	5309.918	-82000	-15.44	±20	Pass
NVNT	ax40	5510	5509.914	-86000	-15.61	±20	Pass
NVNT	ax40	5670	5669.912	-88000	-15.52	±20	Pass
NVNT	ax40	5710	5709.911	-89000	-15.59	±20	Pass
NVNT	ax80	5210	5209.915	-85000	-16.31	±20	Pass
NVNT	ax80	5290	5289.92	-80000	-15.12	±20	Pass
NVNT	ax80	5530	5529.917	-83000	-15.01	±20	Pass

Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

NVNT	ax80	5610	5609.921	-79000	-14.08	±20	Pass
NVNT	ax80	5690	5689.914	-86000	-15.11	±20	Pass

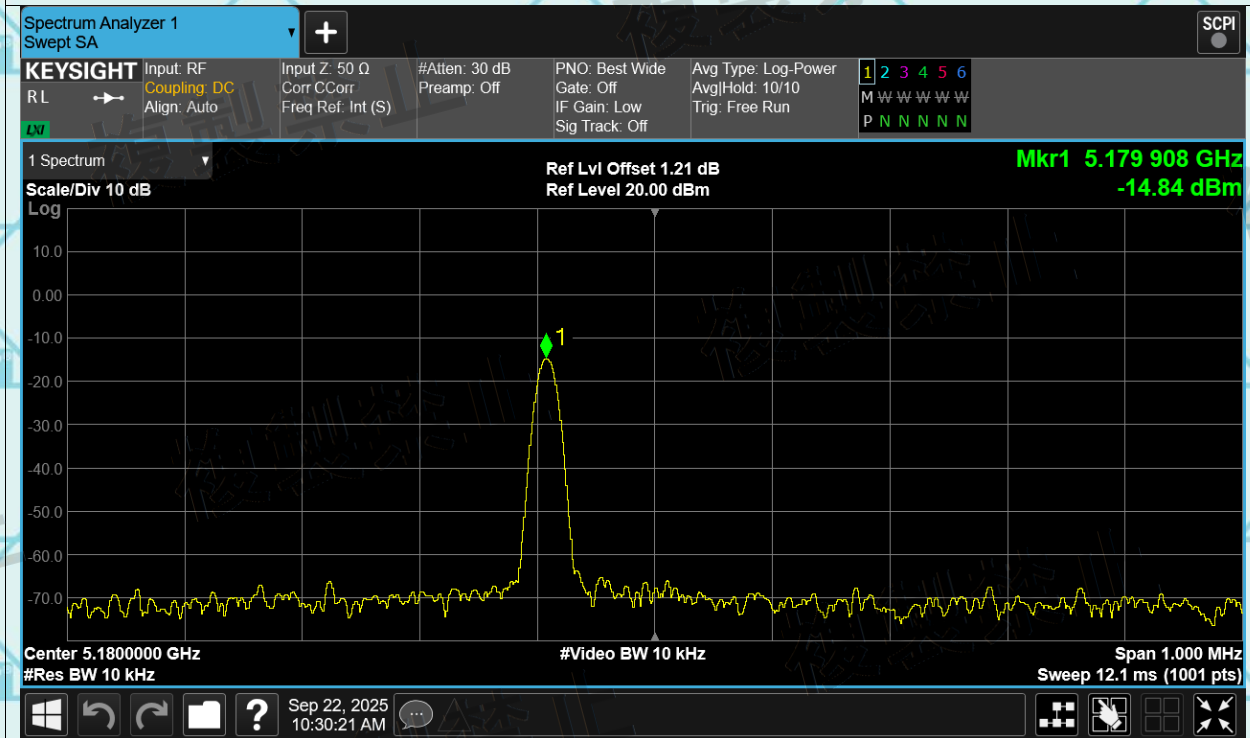
Note: Testing was performed using the peak found in the middle of the modulation envelope with lower res BW.



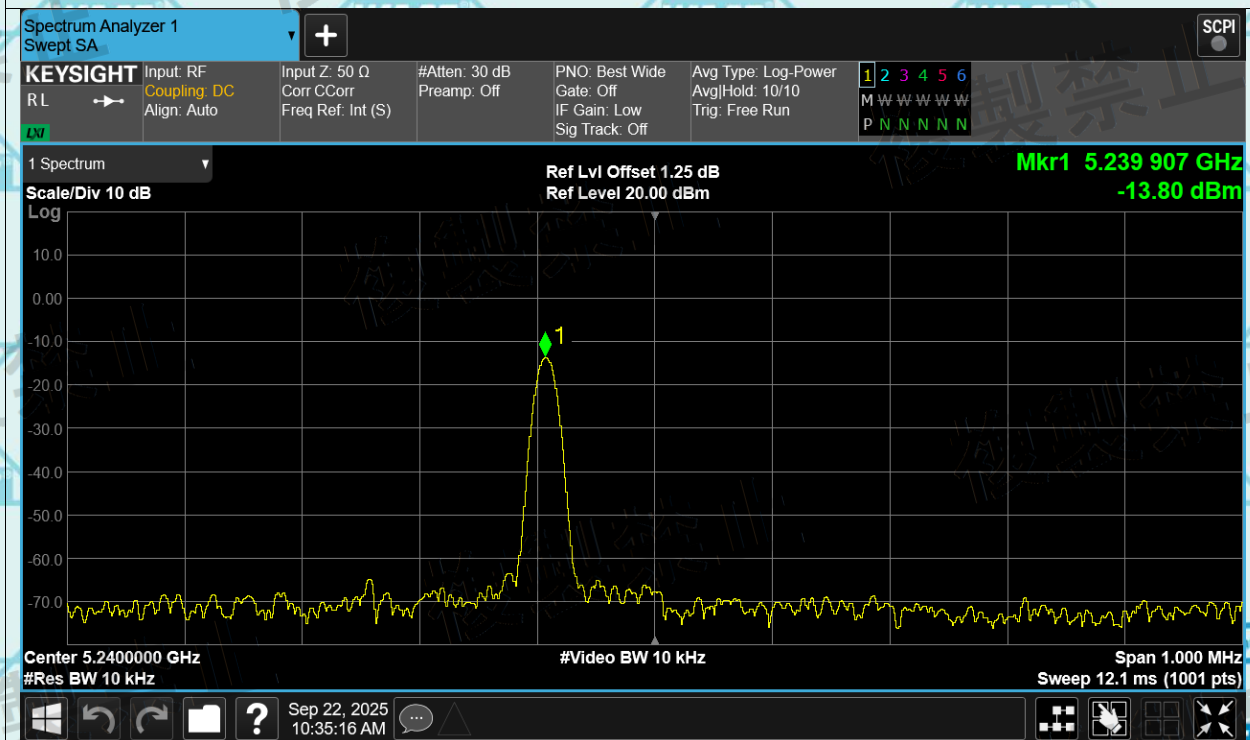
Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Test Graphs

Freq. Error NVNT a 5180MHz

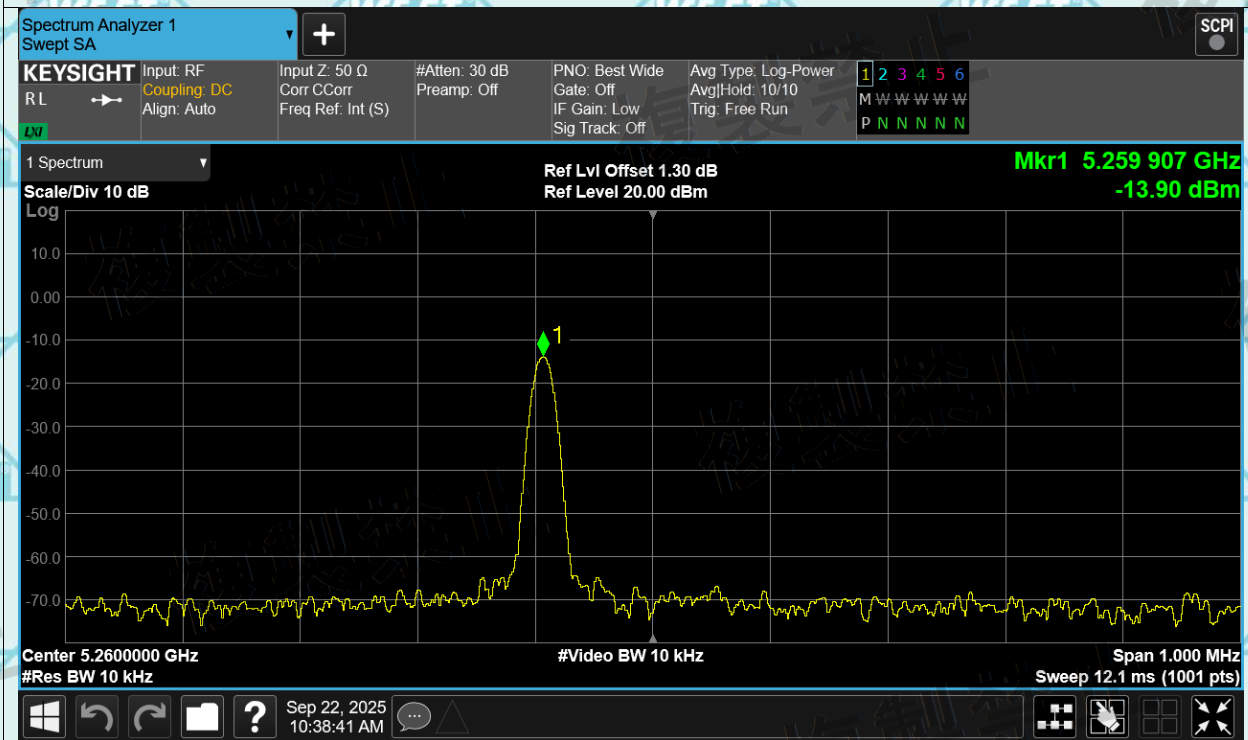


Freq. Error NVNT a 5240MHz

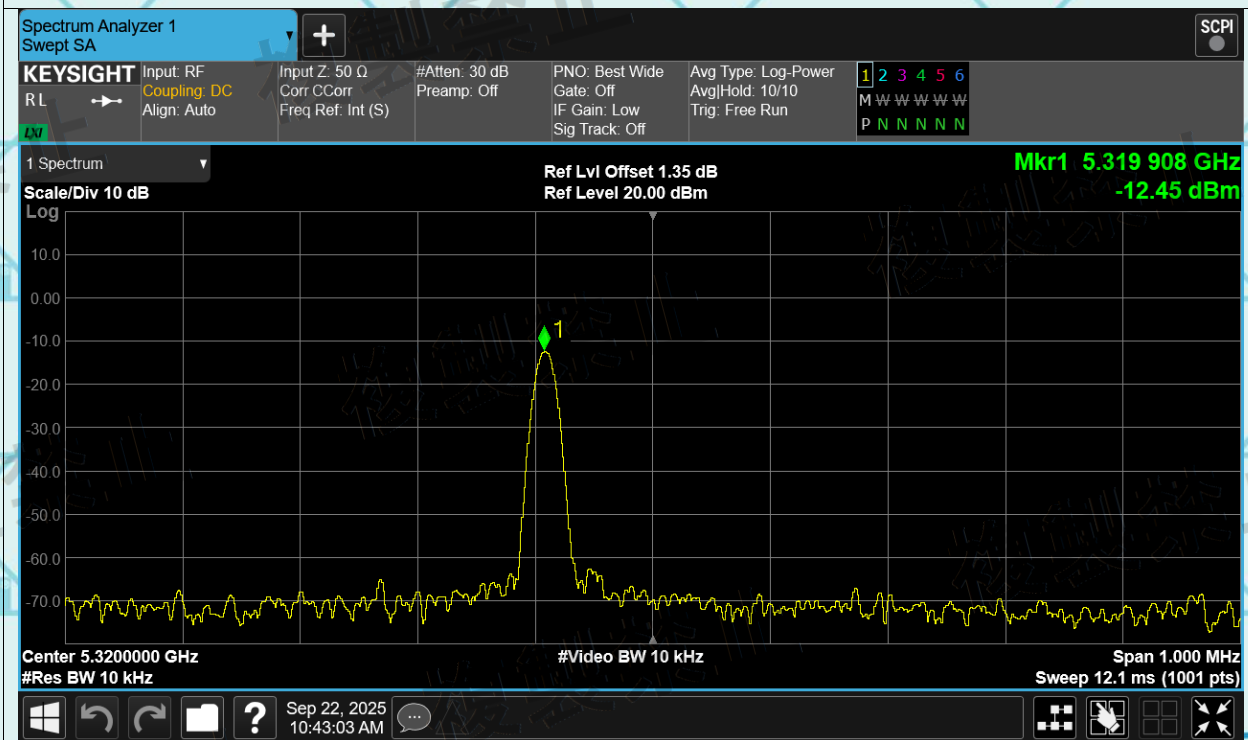


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT a 5260MHz

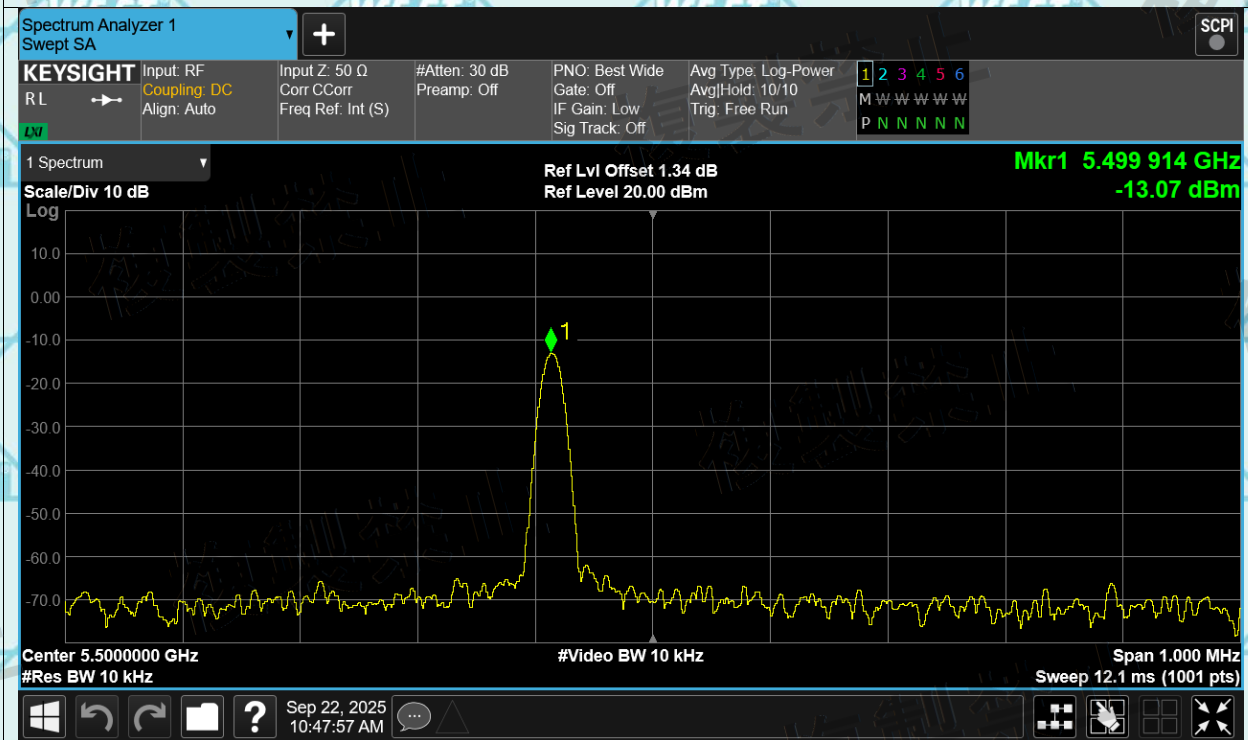


Freq. Error NVNT a 5320MHz

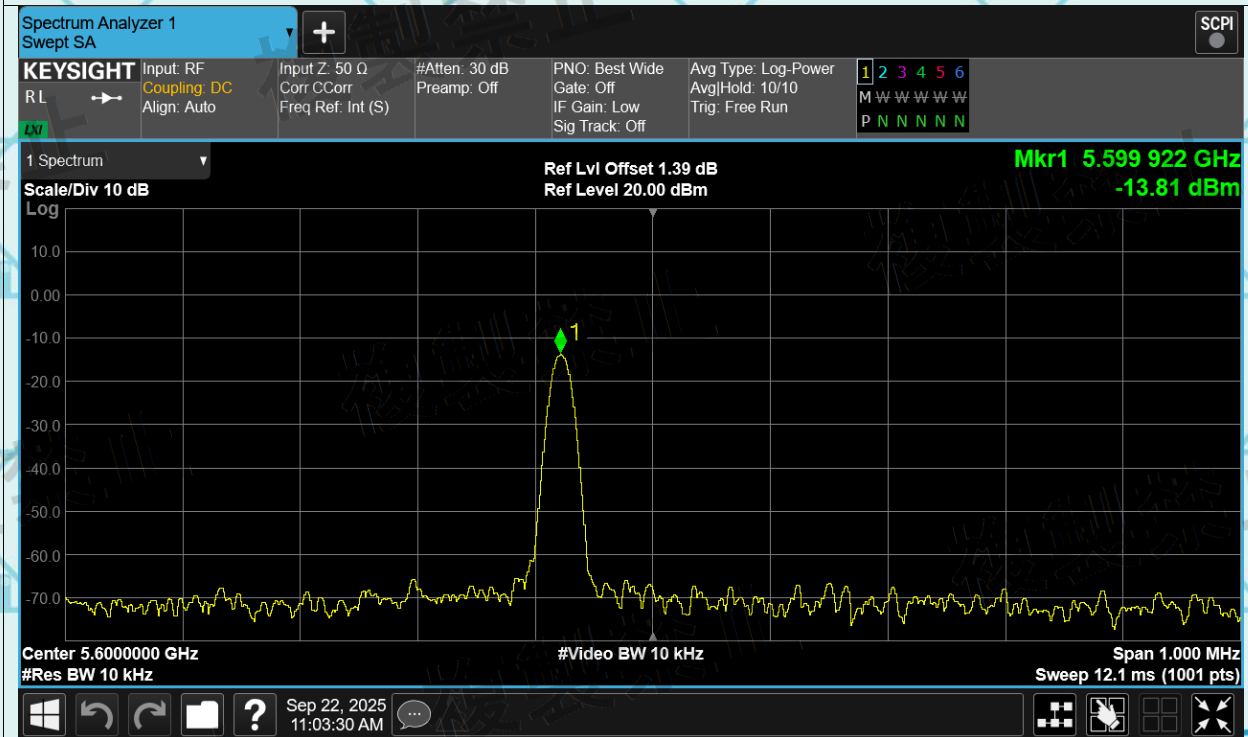


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT a 5500MHz

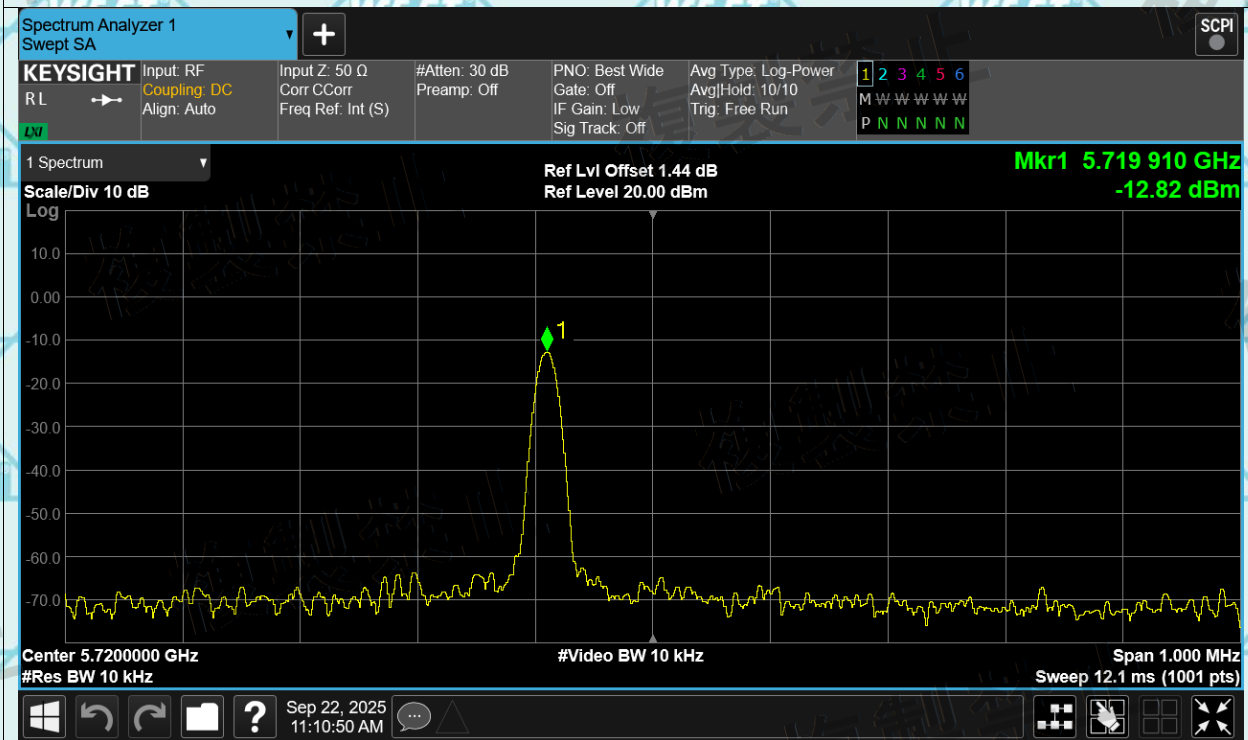


Freq. Error NVNT a 5600MHz

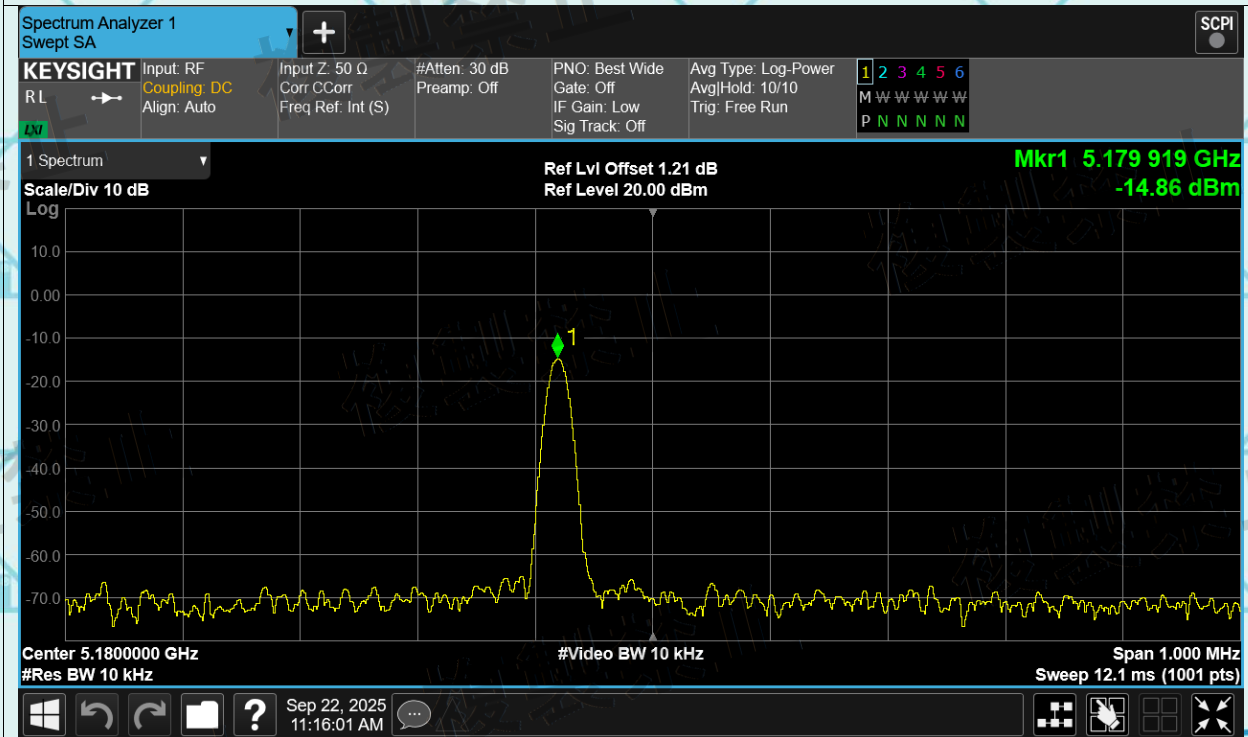


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT a 5720MHz

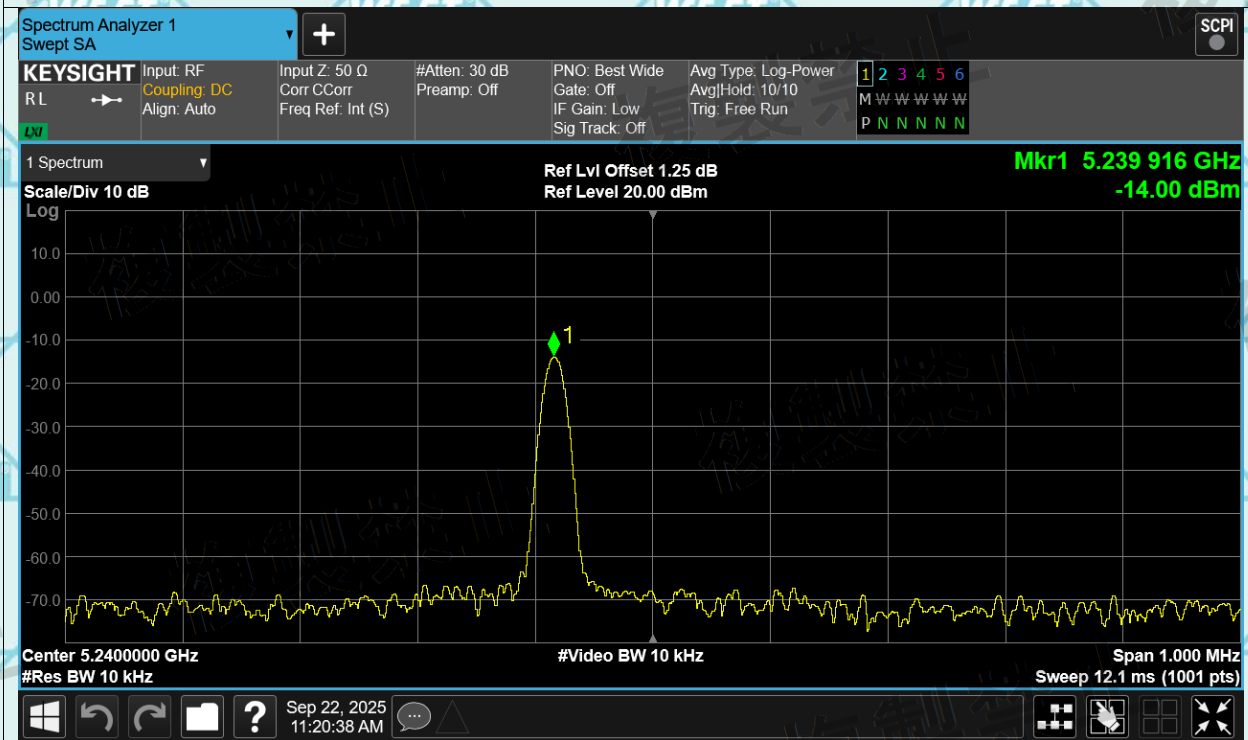


Freq. Error NVNT n20 5180MHz

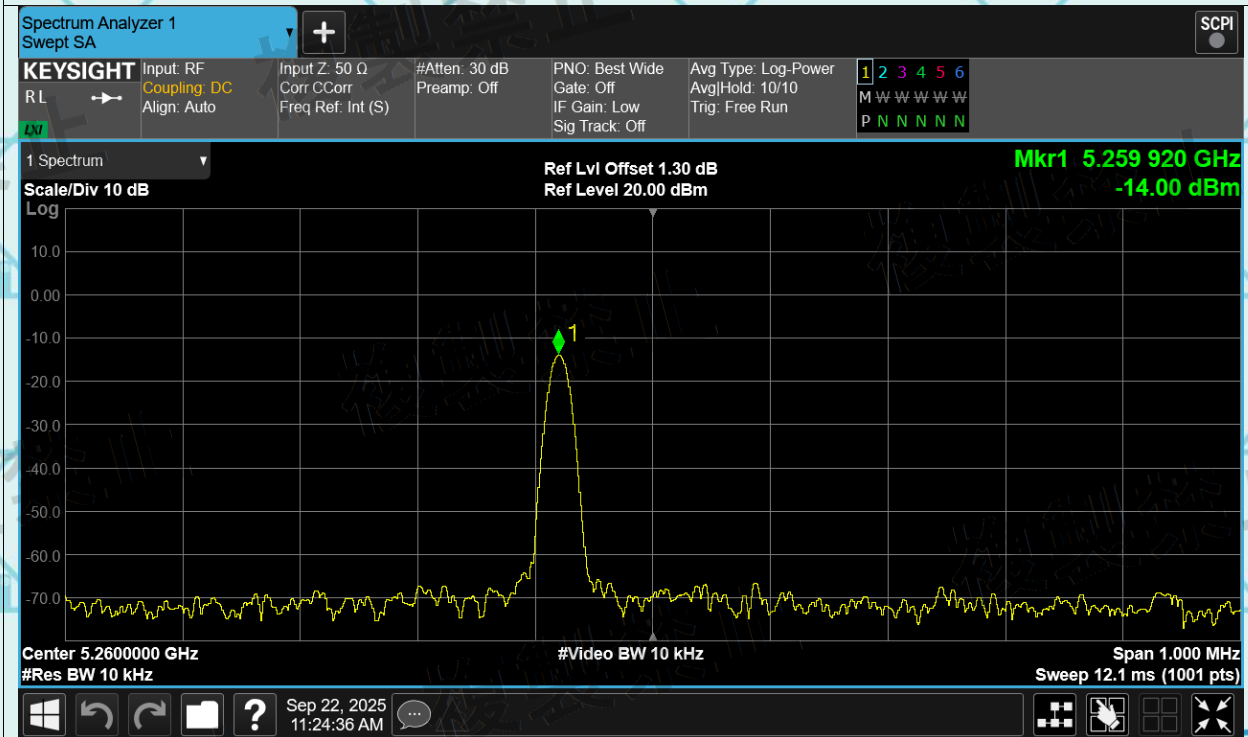


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT n20 5240MHz

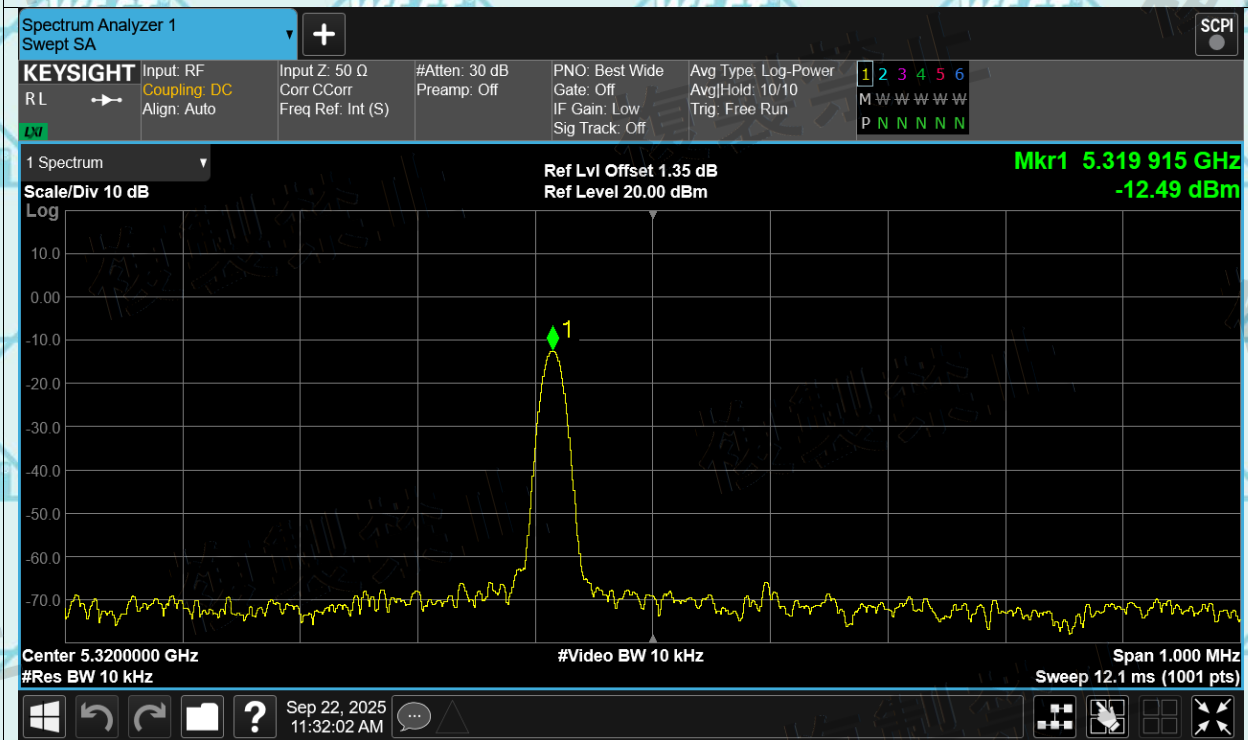


Freq. Error NVNT n20 5260MHz

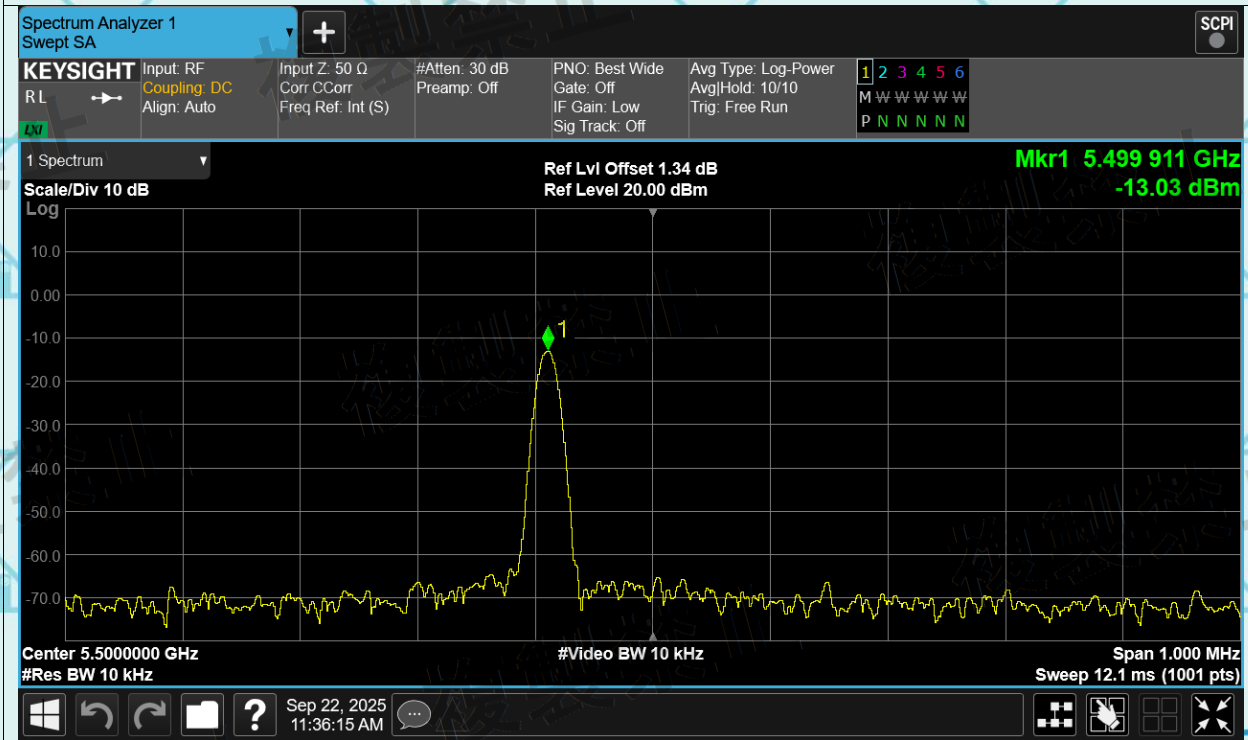


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT n20 5320MHz

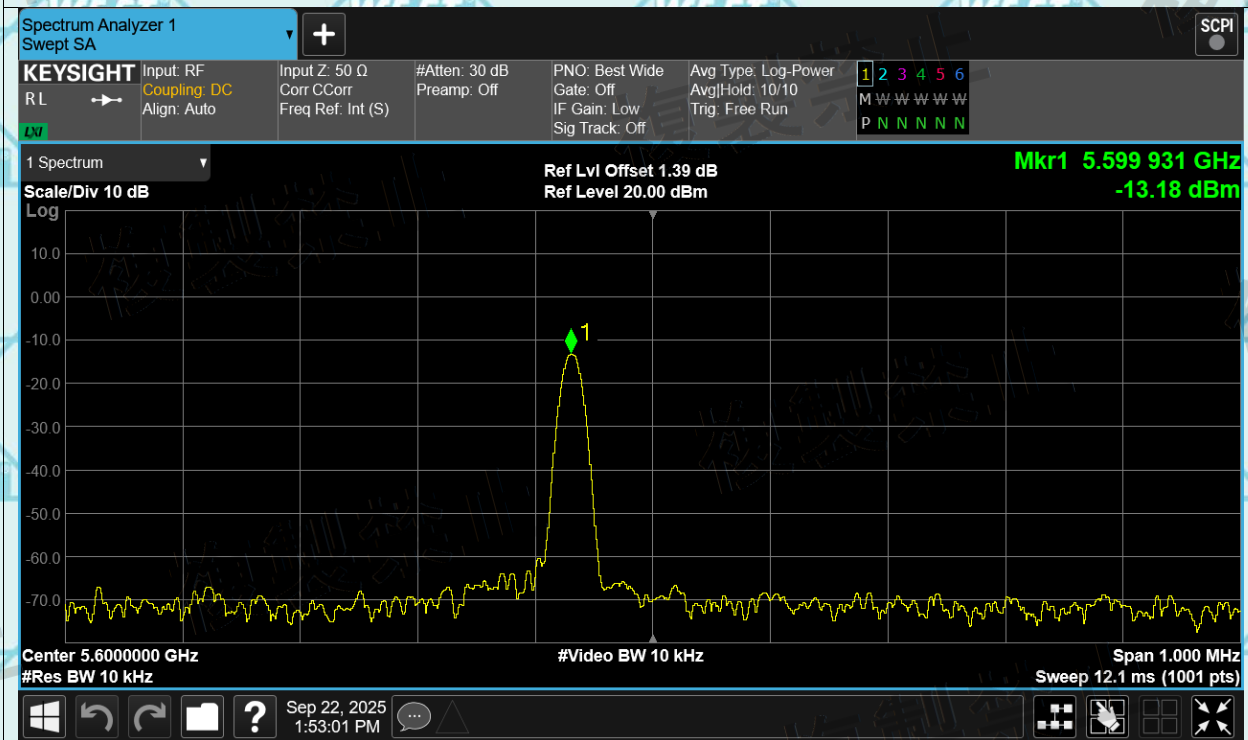


Freq. Error NVNT n20 5500MHz

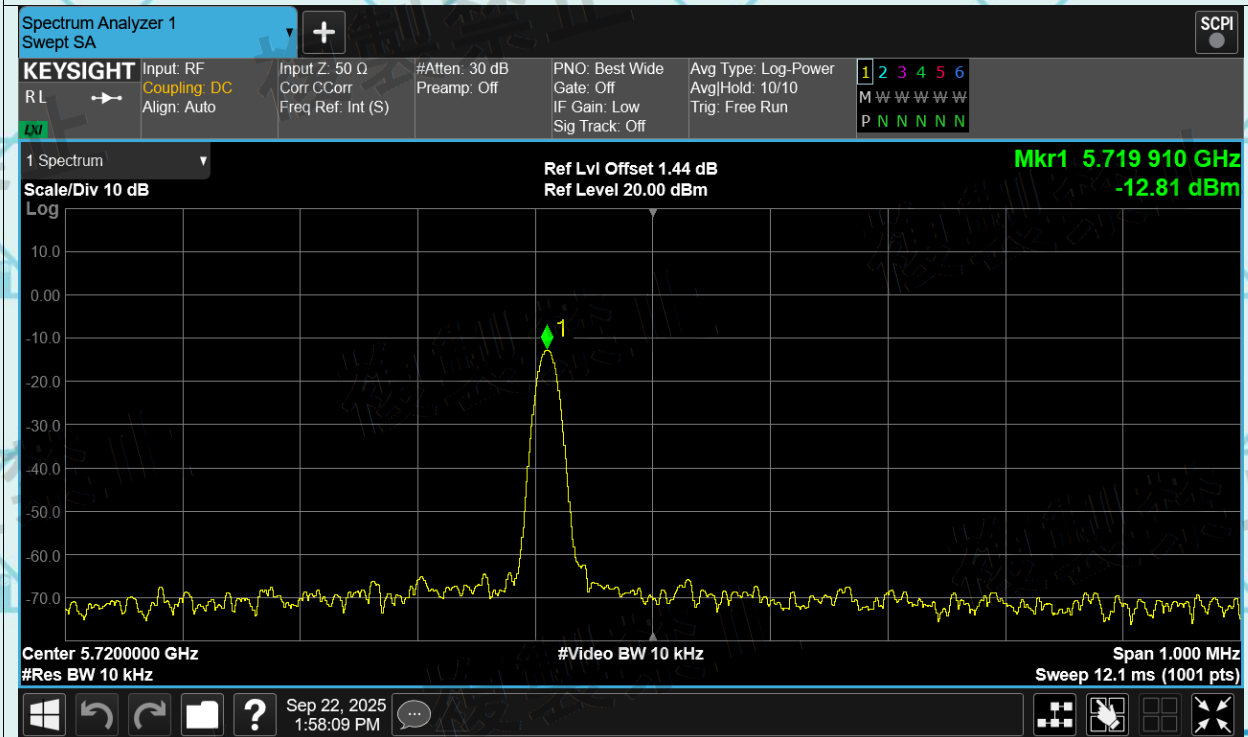


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT n20 5600MHz

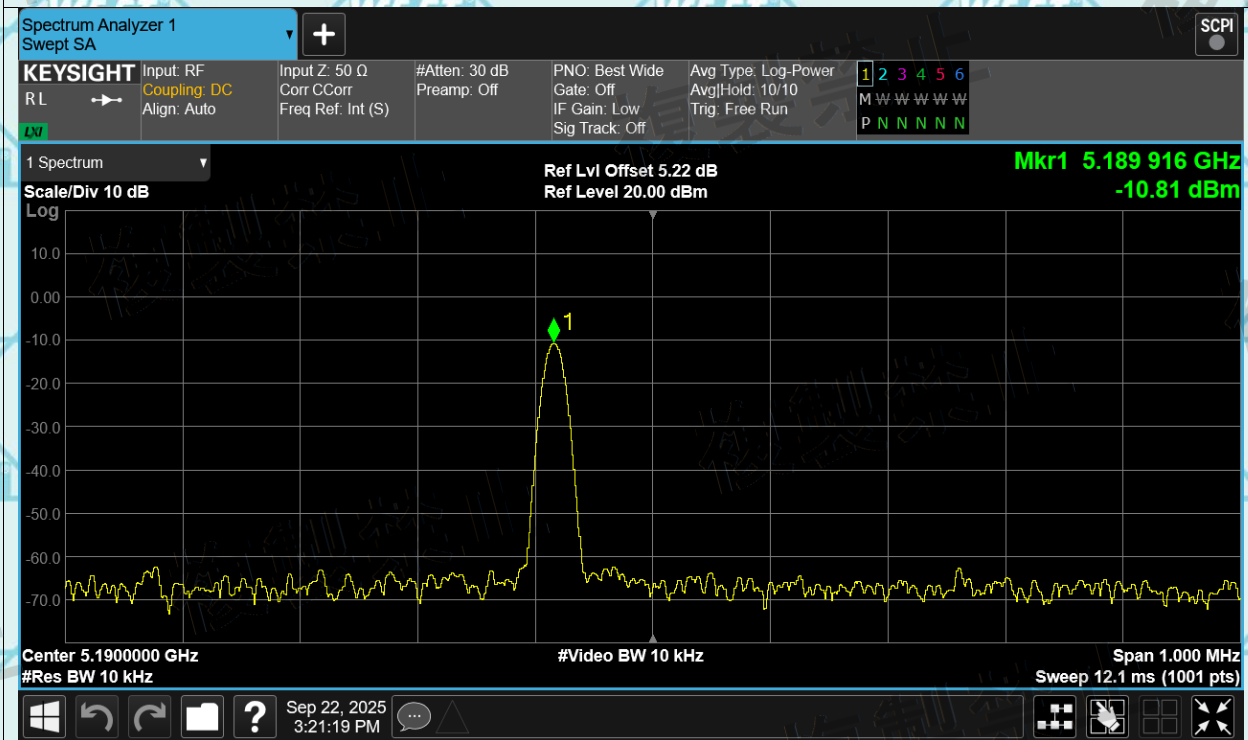


Freq. Error NVNT n20 5720MHz

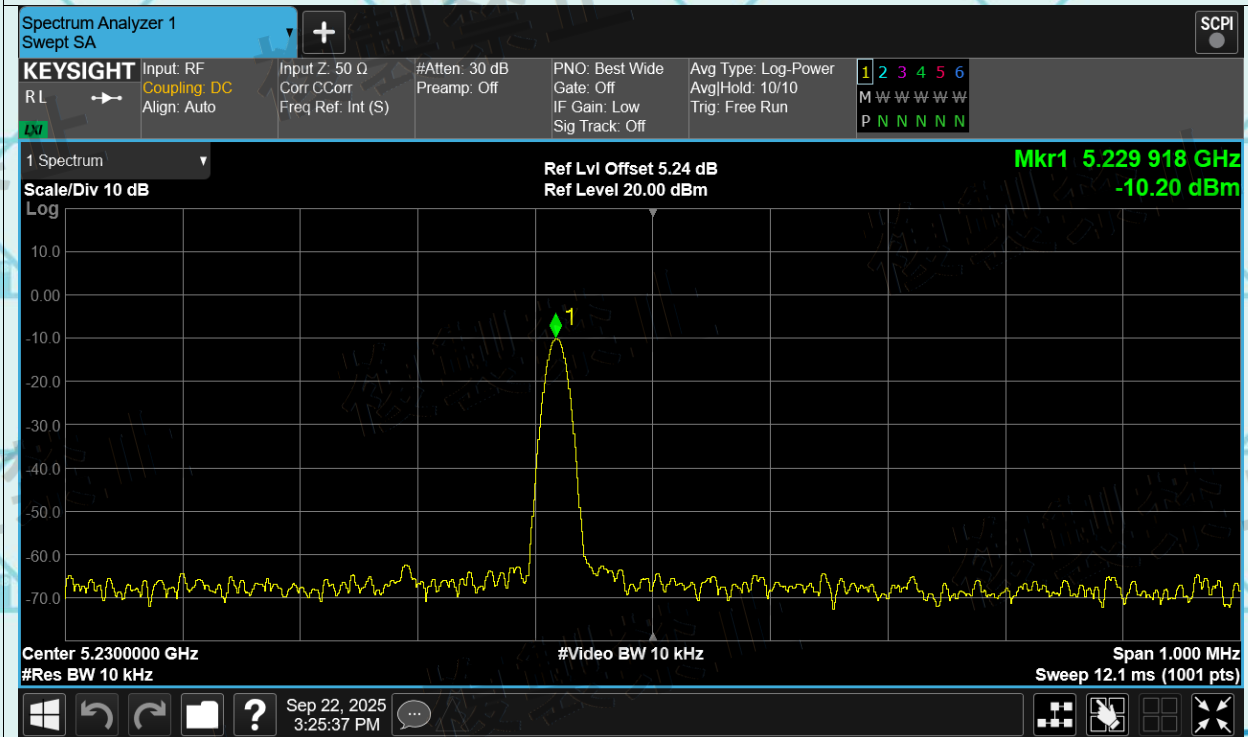


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT n40 5190MHz

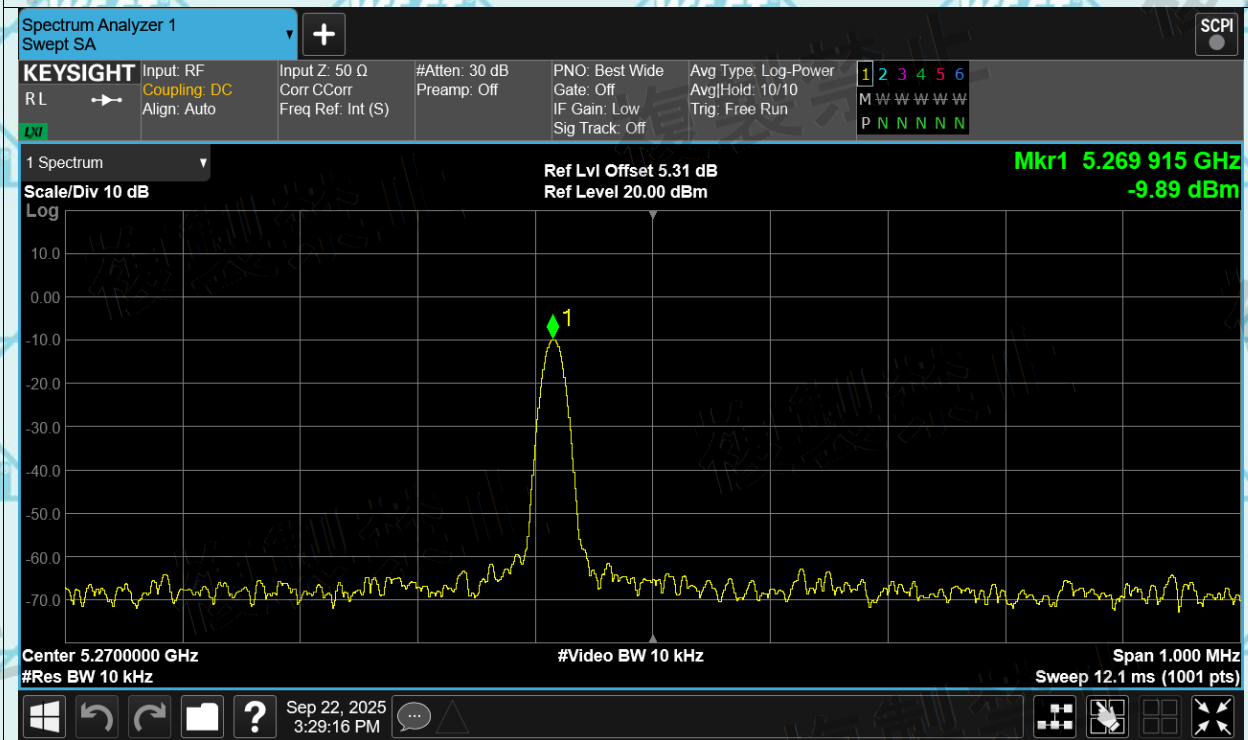


Freq. Error NVNT n40 5230MHz

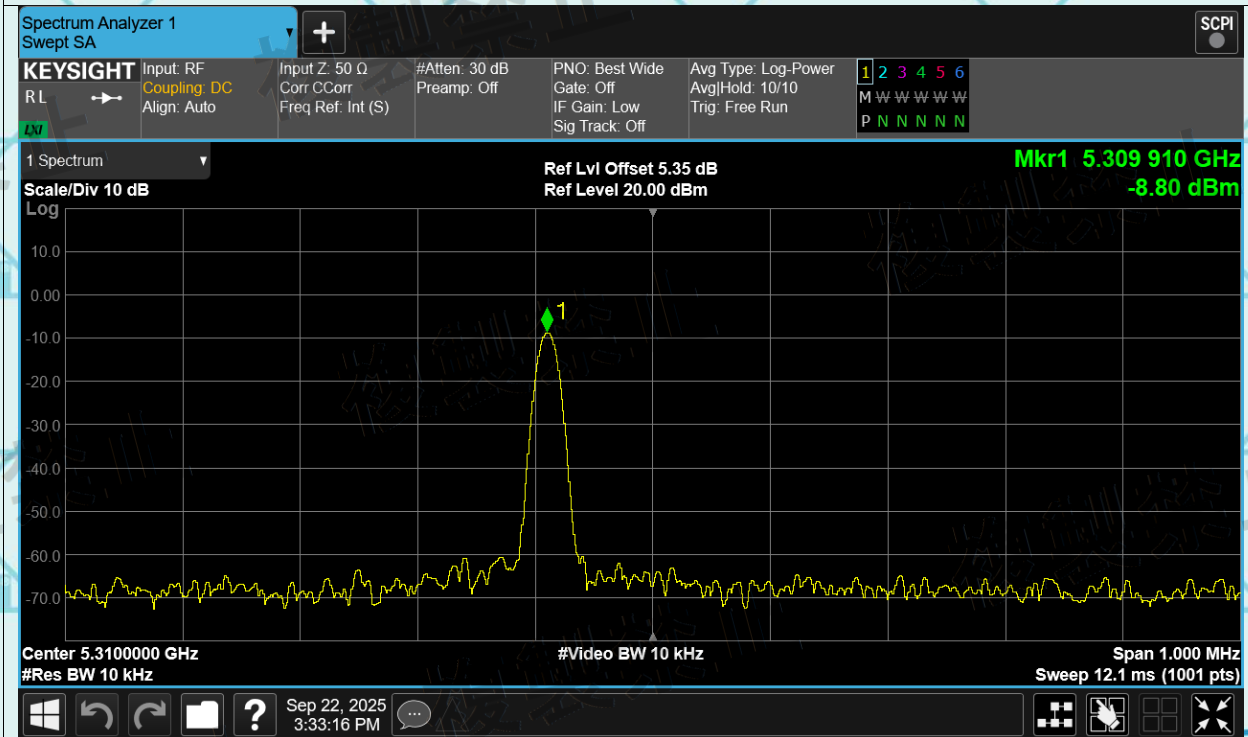


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT n40 5270MHz

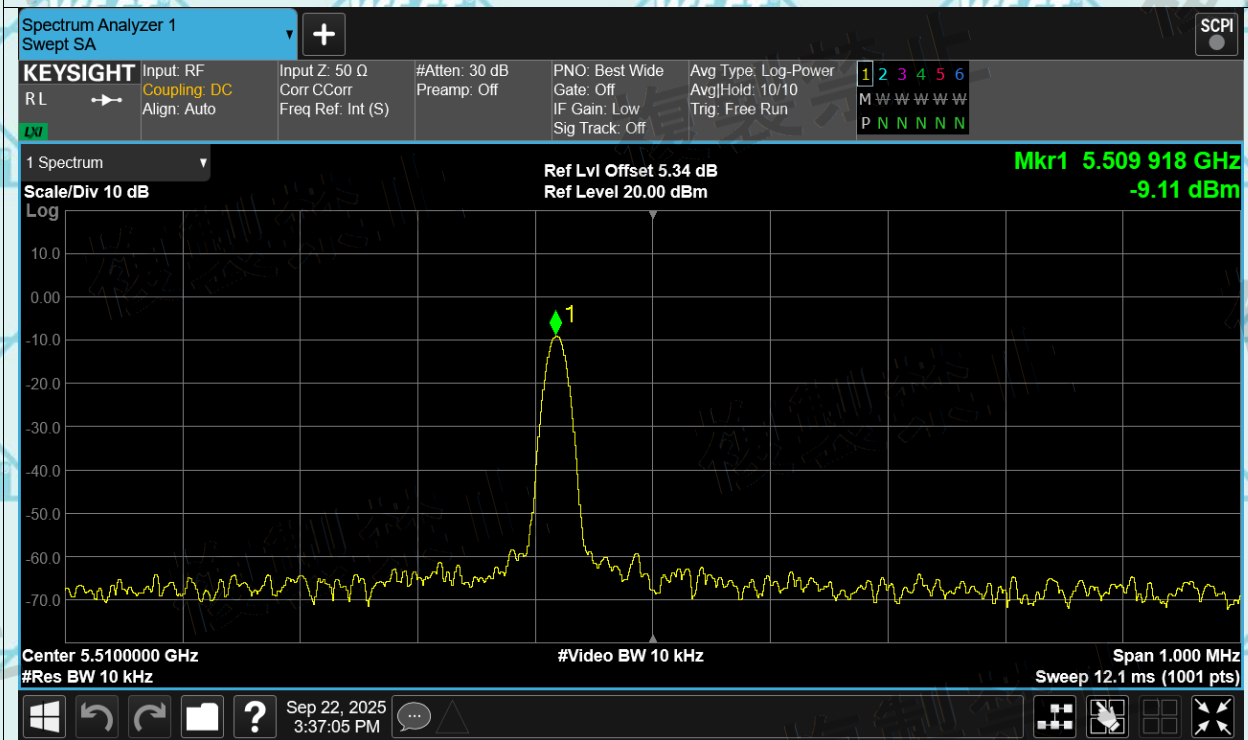


Freq. Error NVNT n40 5310MHz

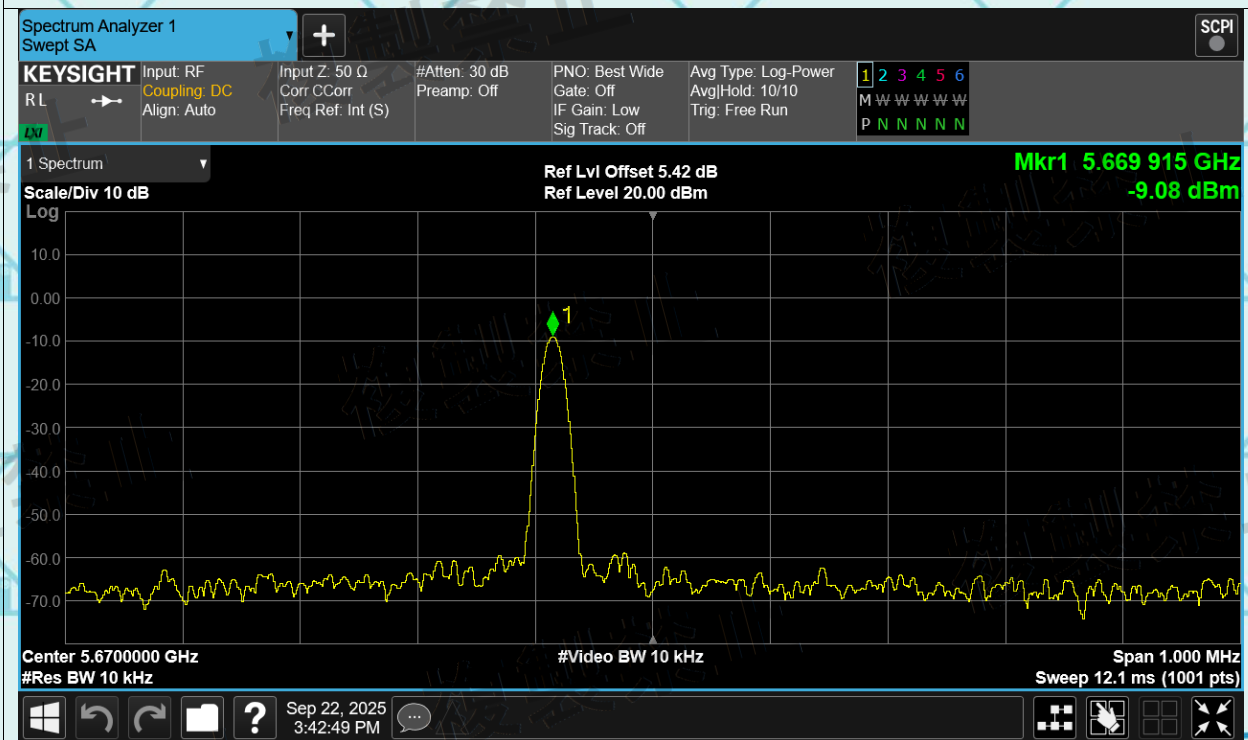


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT n40 5510MHz

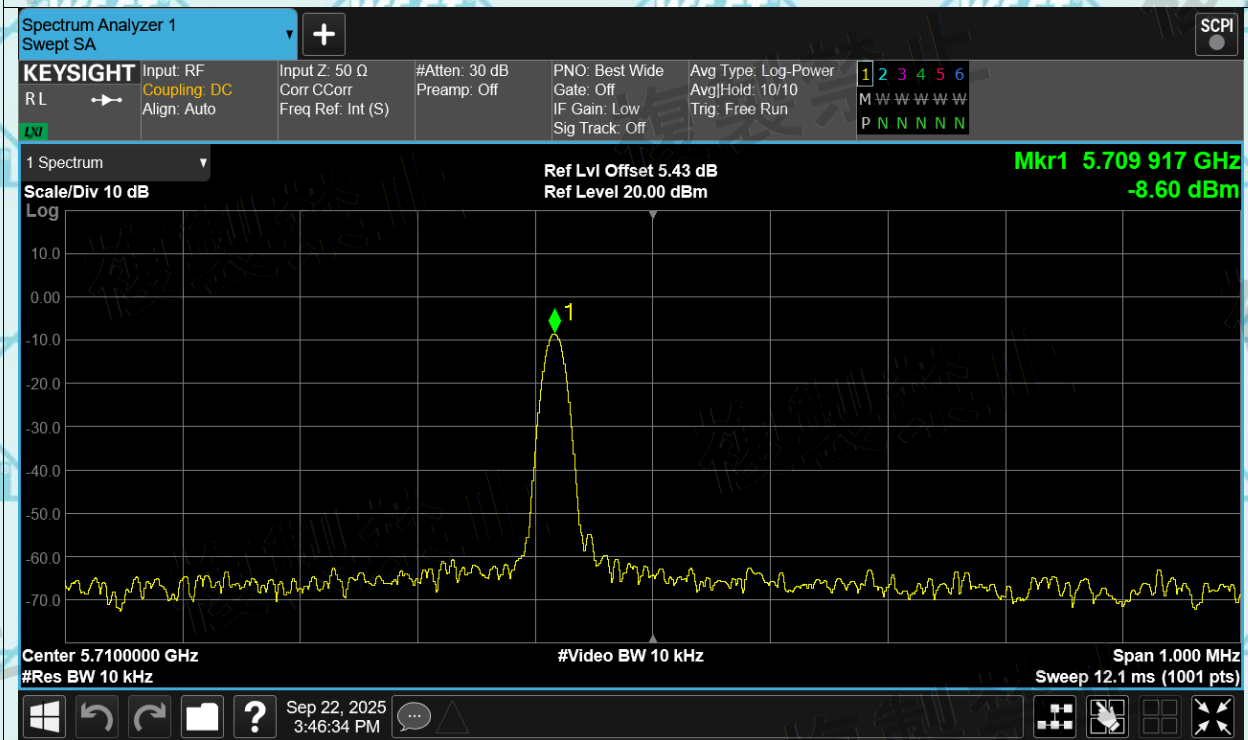


Freq. Error NVNT n40 5670MHz

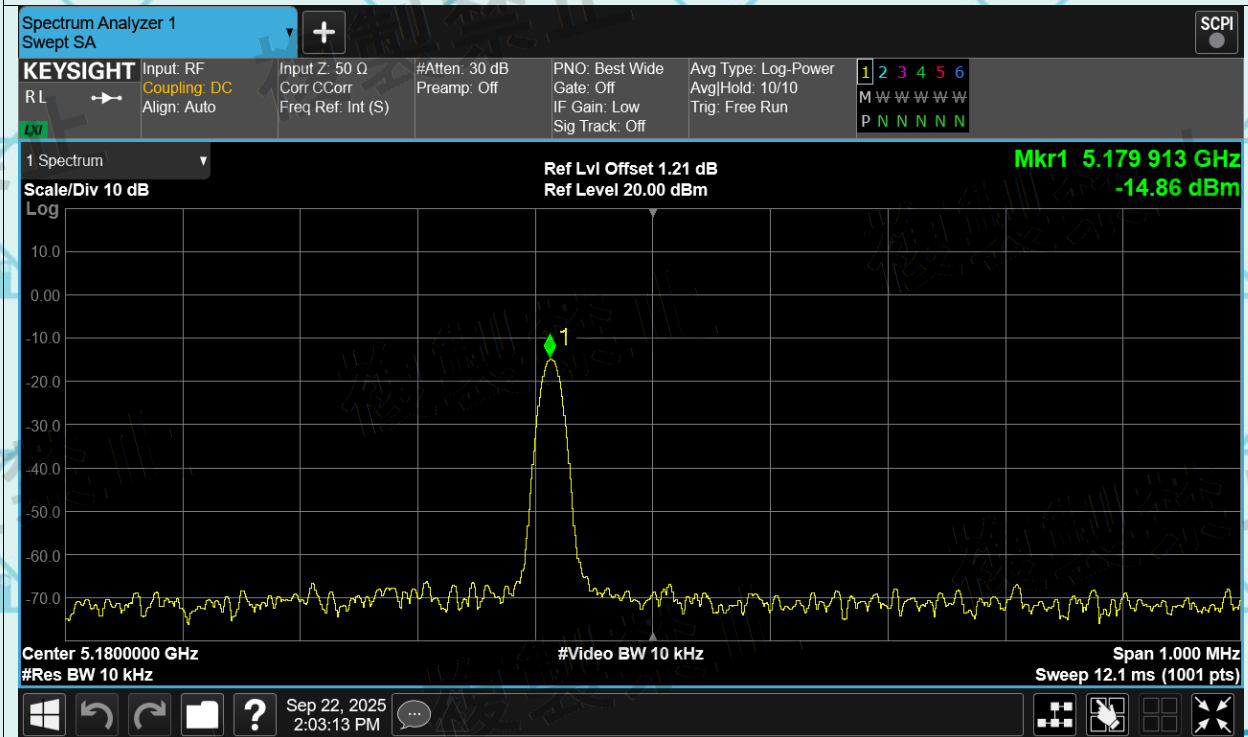


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT n40 5710MHz

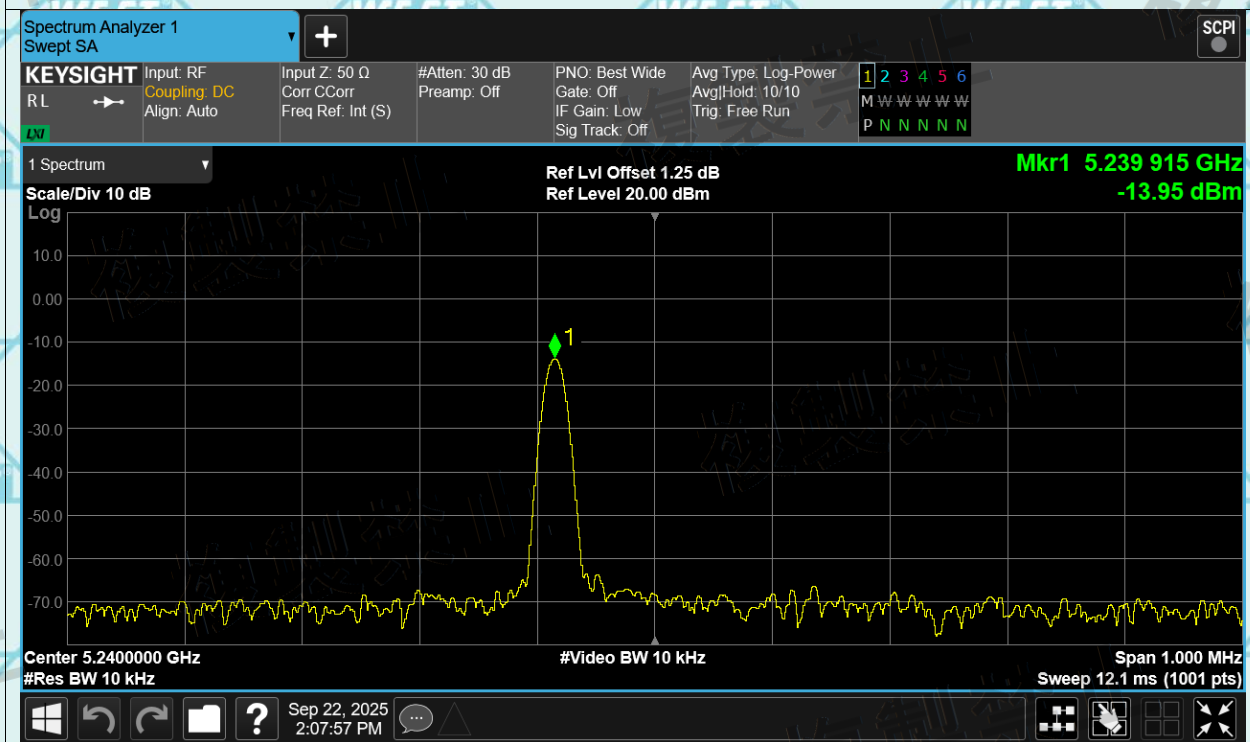


Freq. Error NVNT ac20 5180MHz

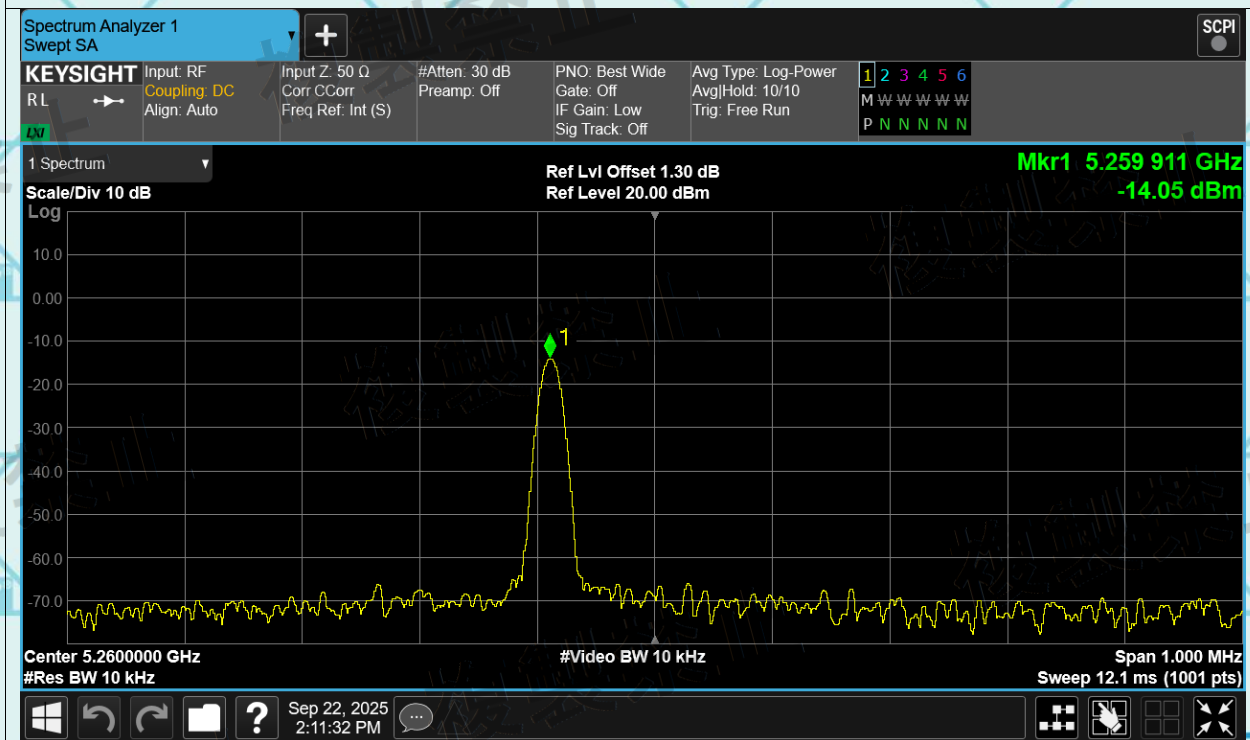


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ac20 5240MHz

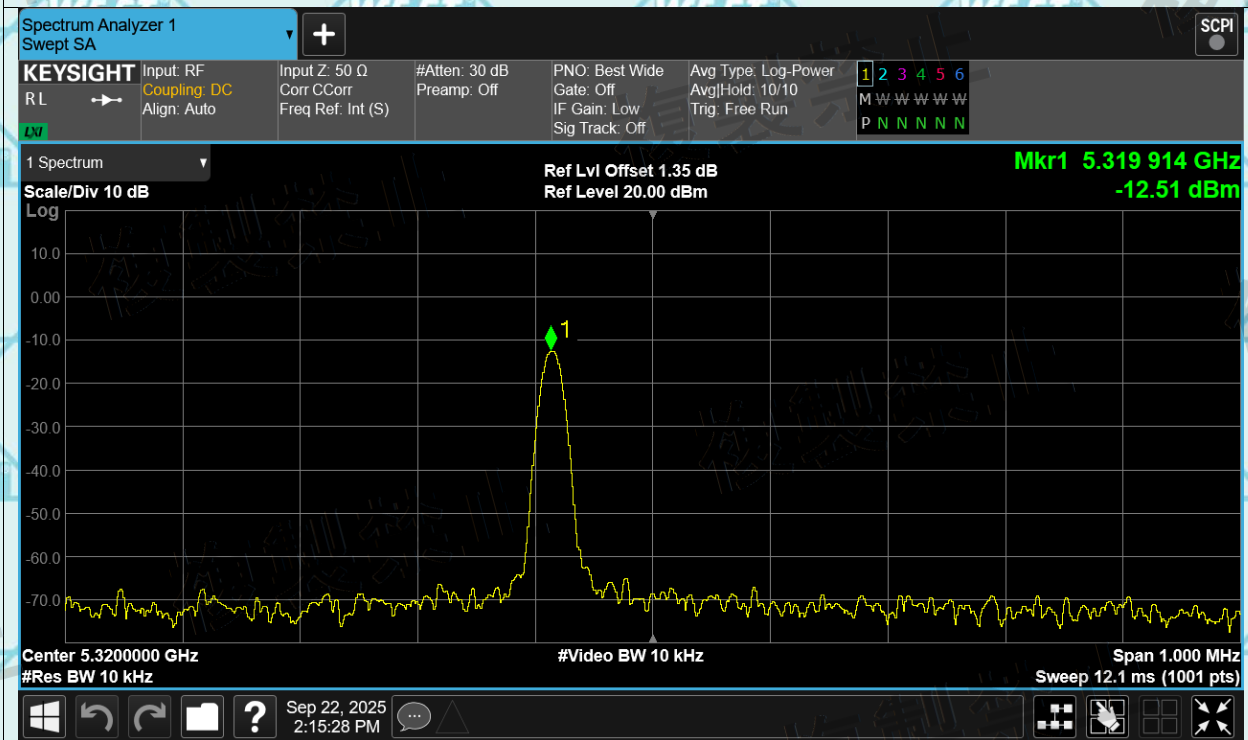


Freq. Error NVNT ac20 5260MHz

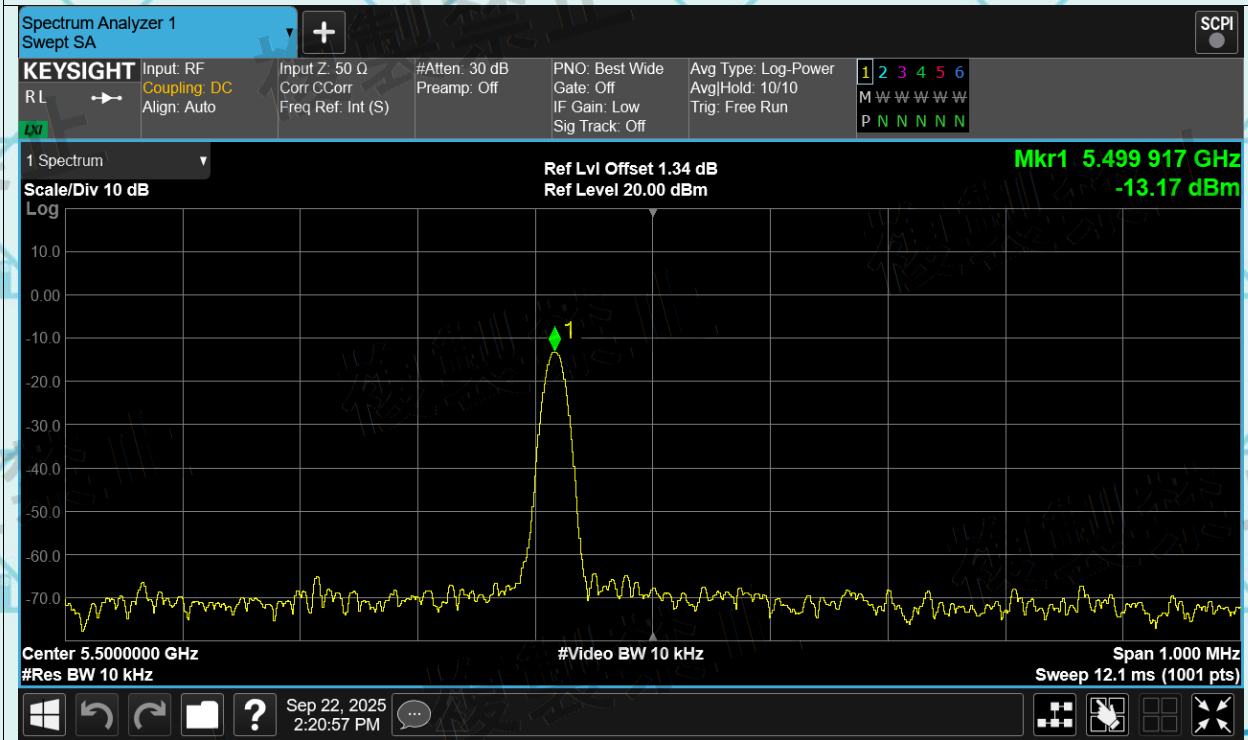


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ac20 5320MHz

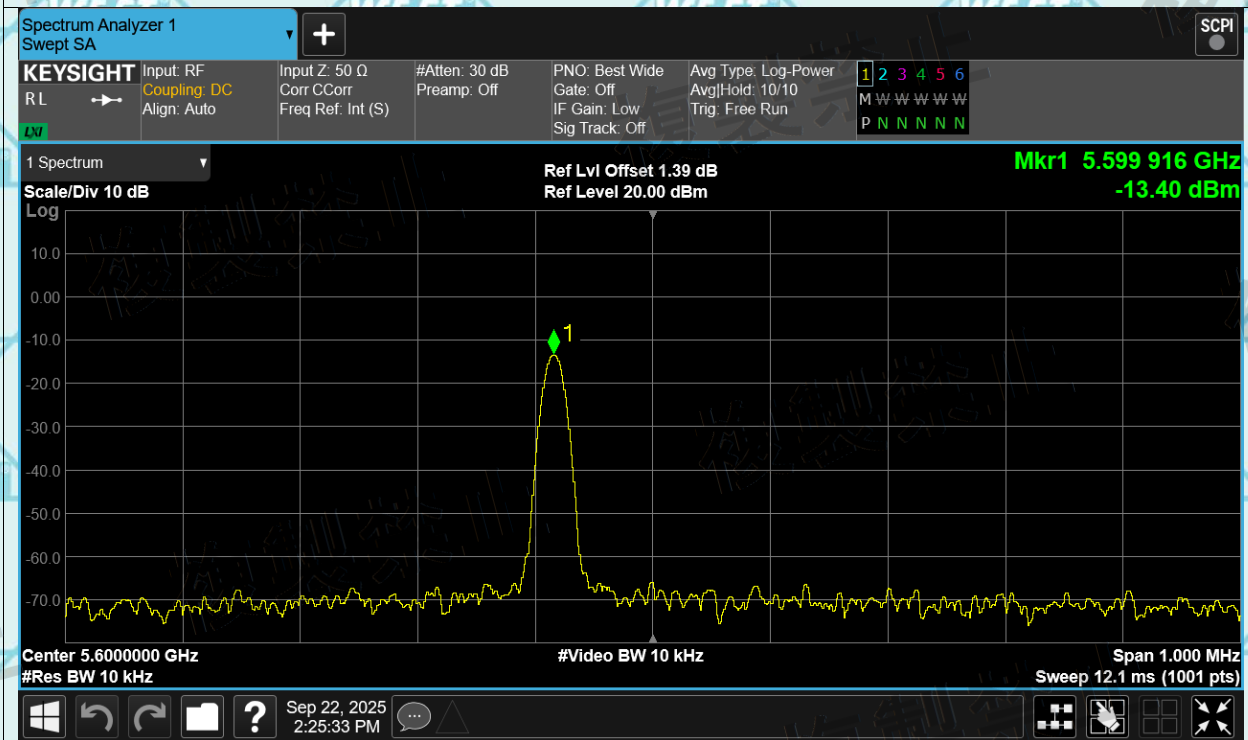


Freq. Error NVNT ac20 5500MHz

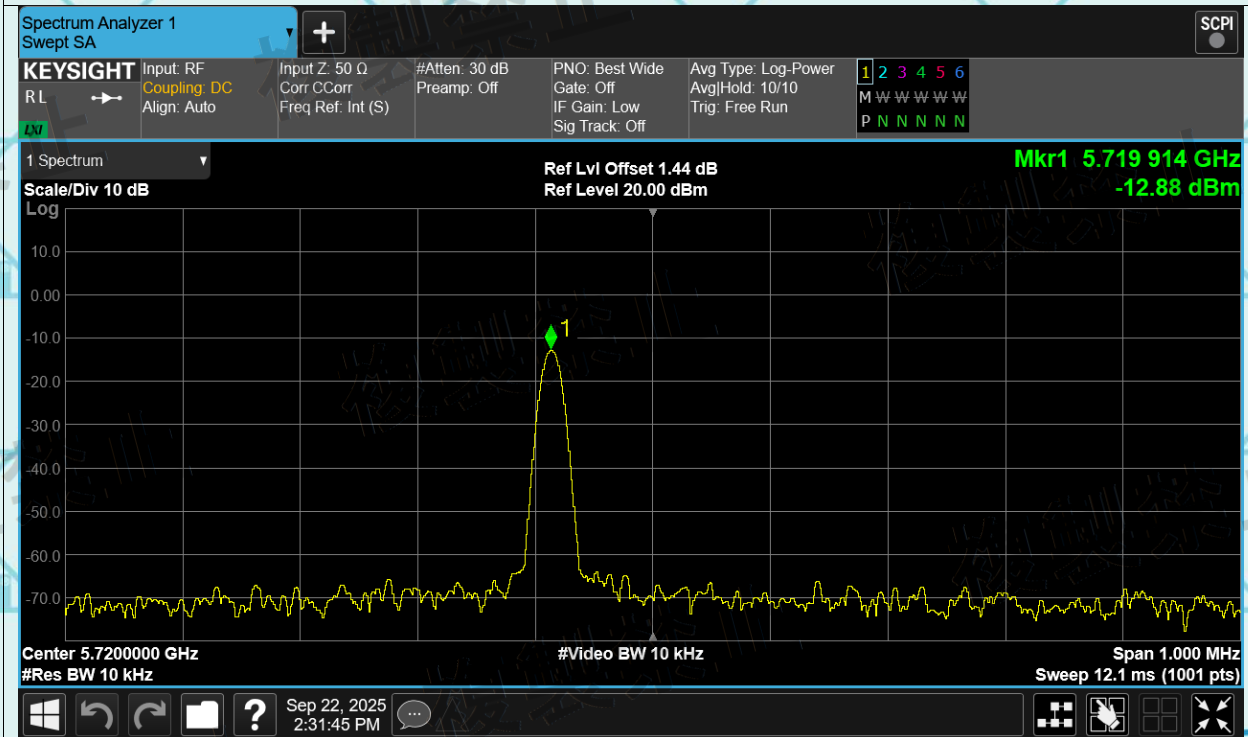


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ac20 5600MHz

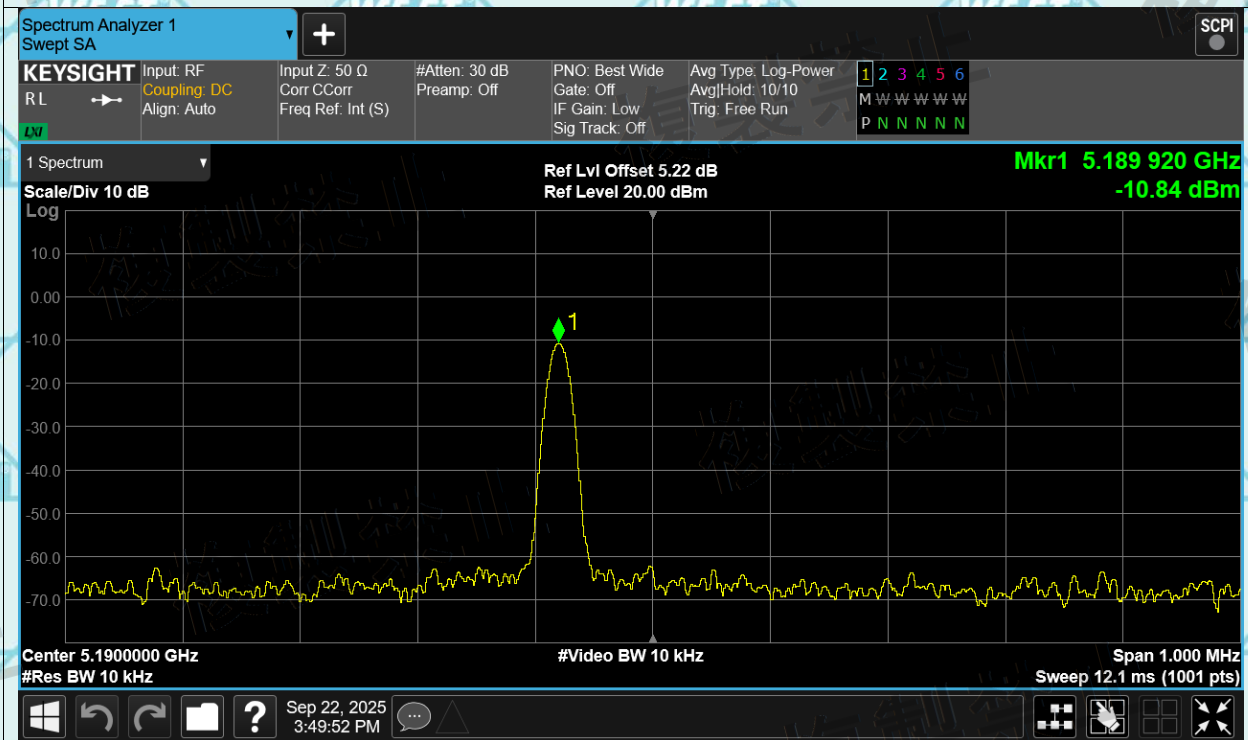


Freq. Error NVNT ac20 5720MHz

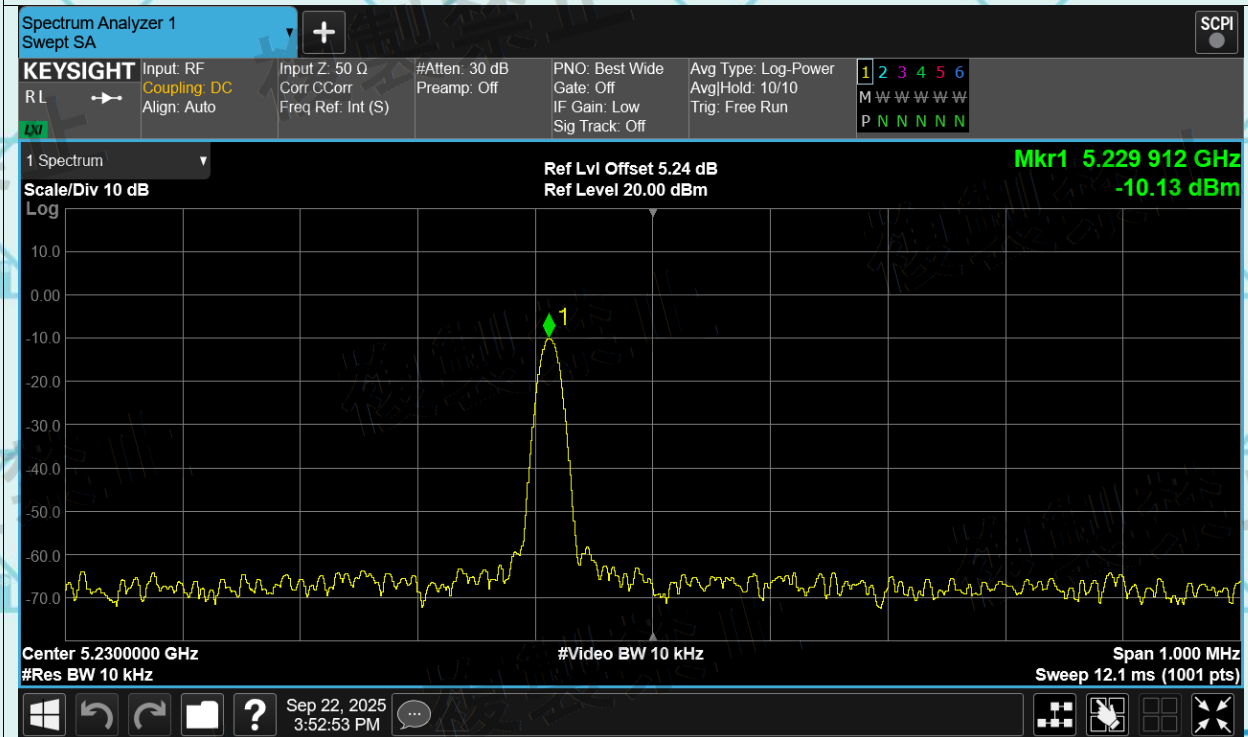


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ac40 5190MHz

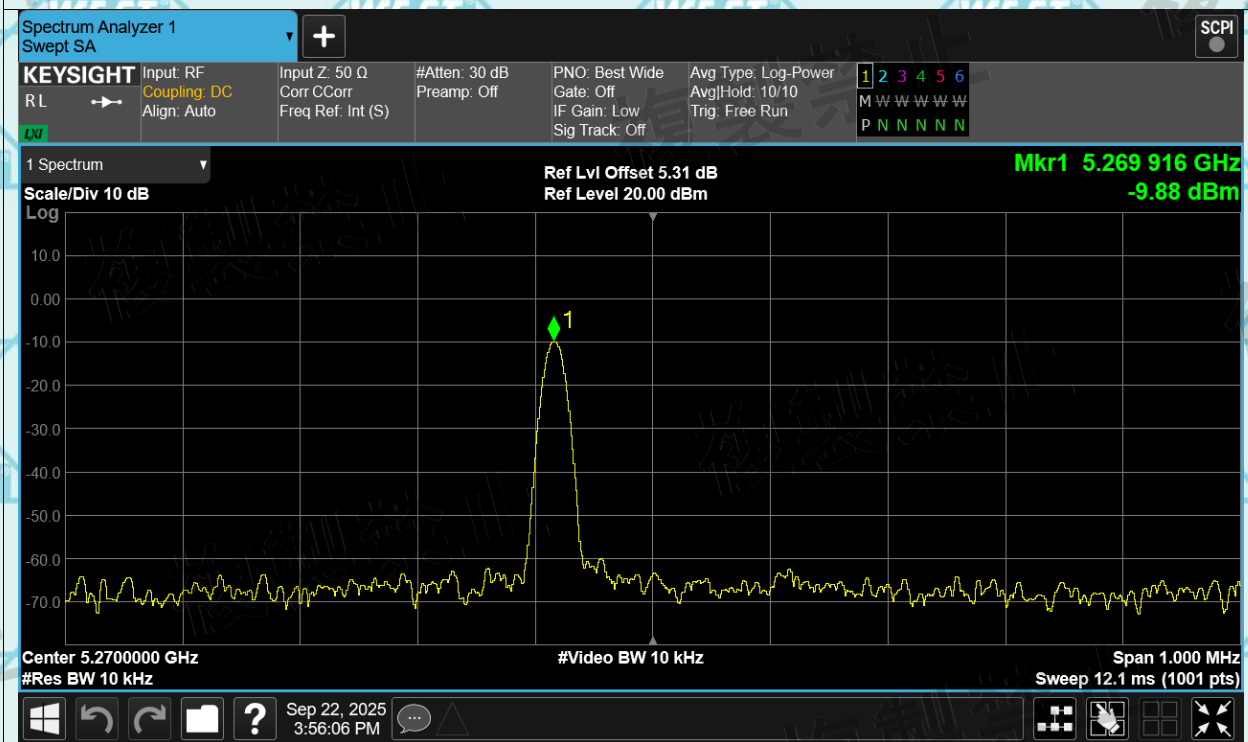


Freq. Error NVNT ac40 5230MHz

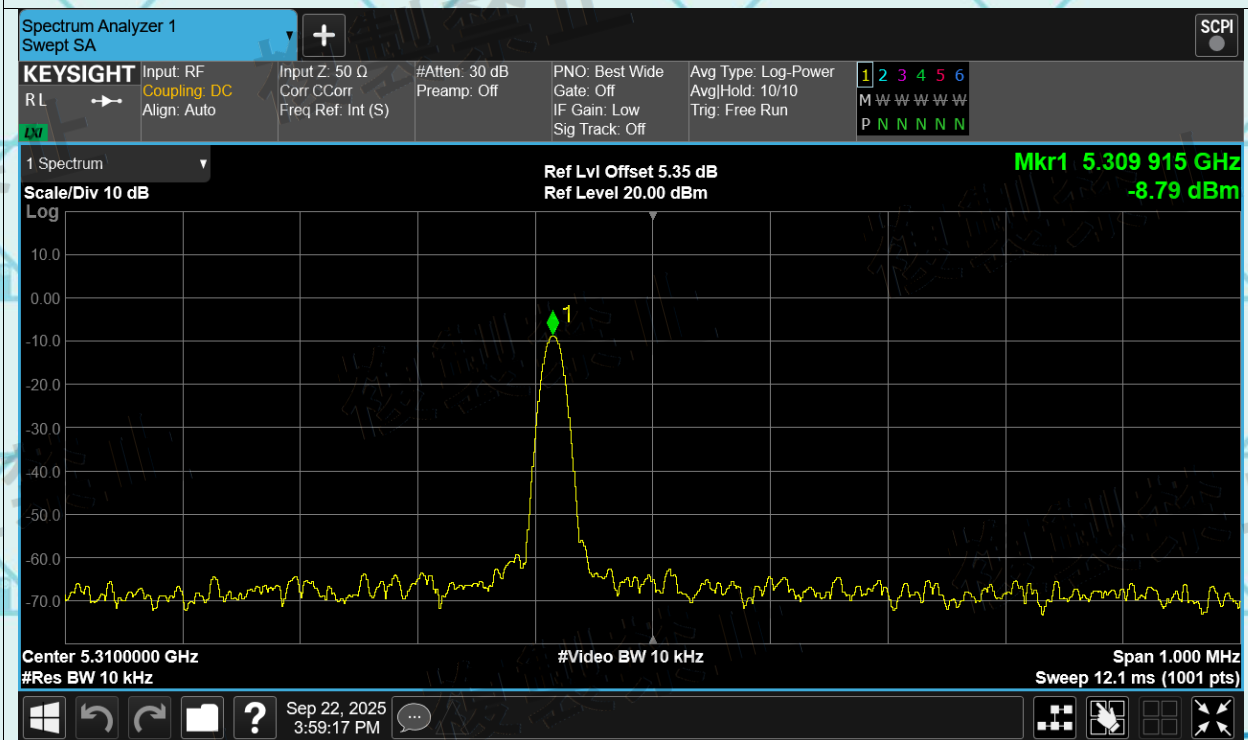


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ac40 5270MHz

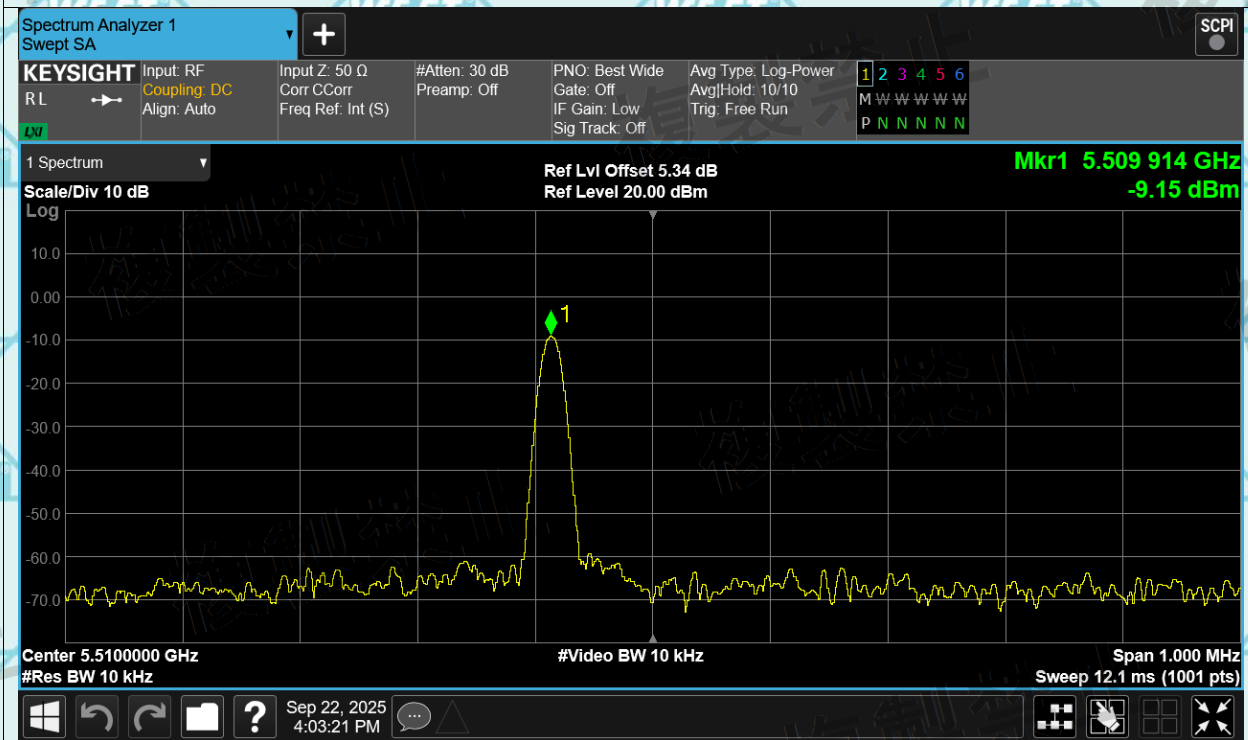


Freq. Error NVNT ac40 5310MHz

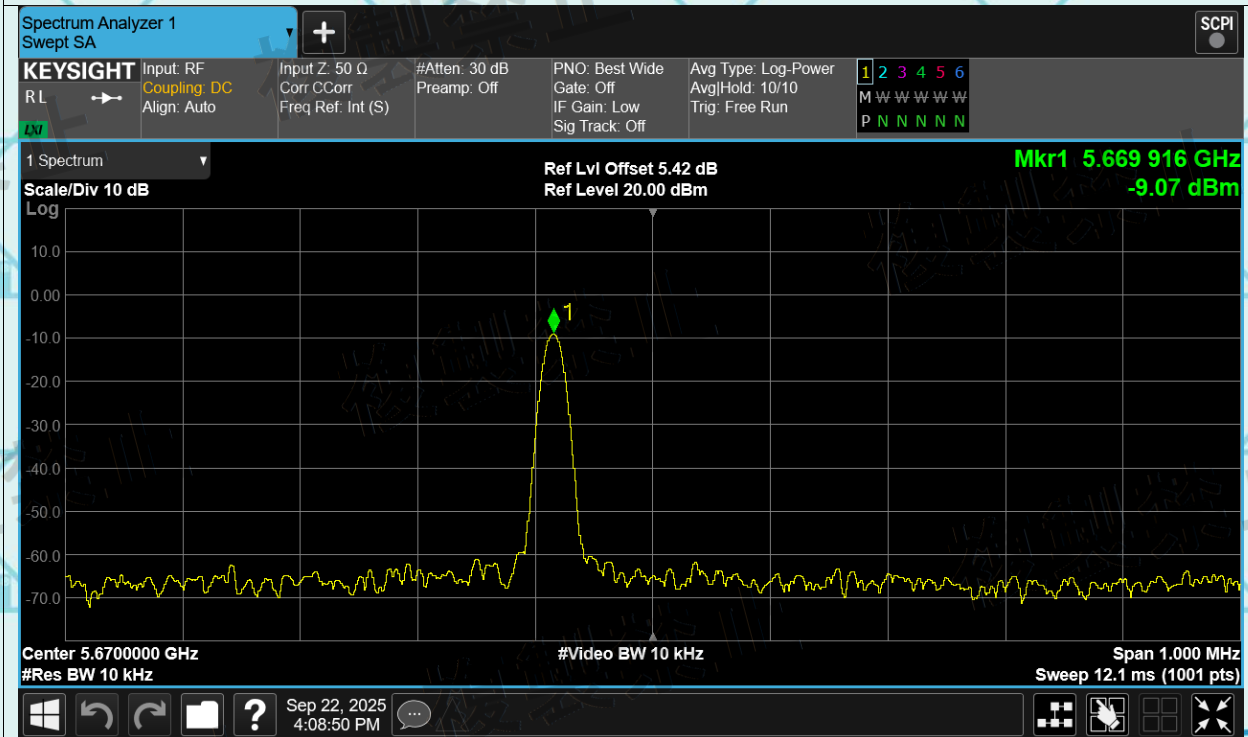


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ac40 5510MHz

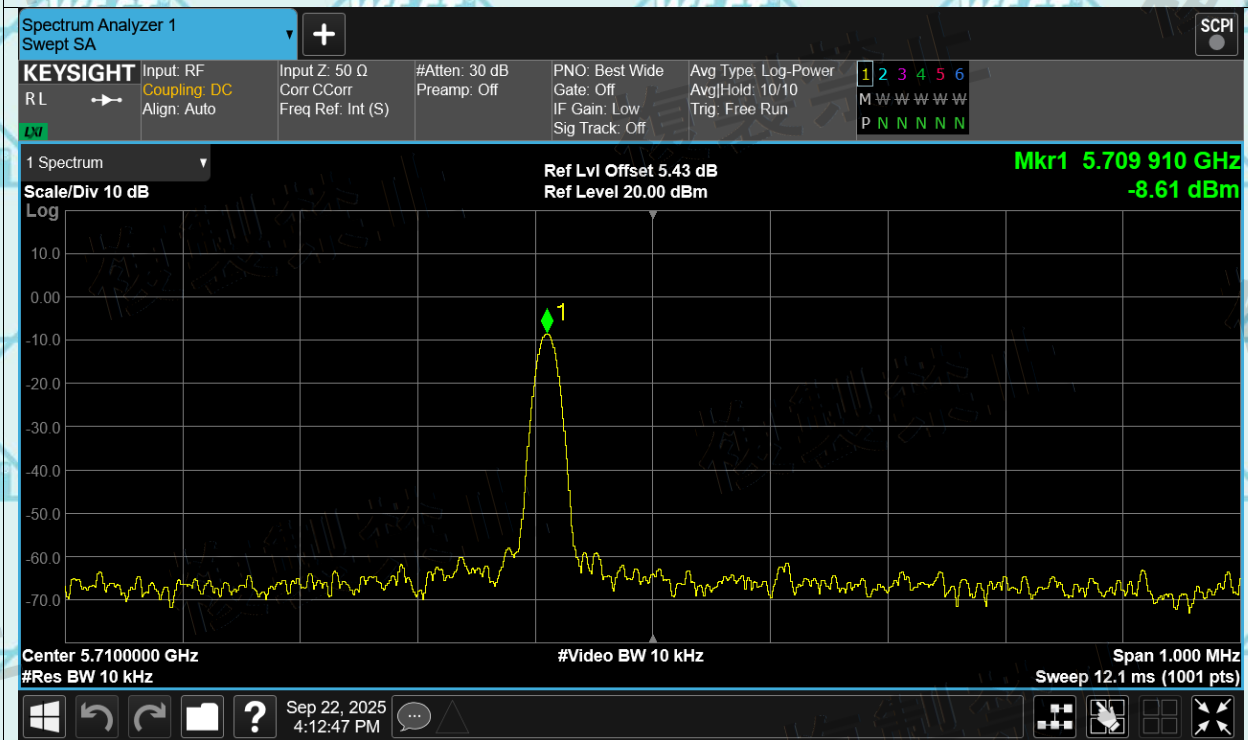


Freq. Error NVNT ac40 5670MHz

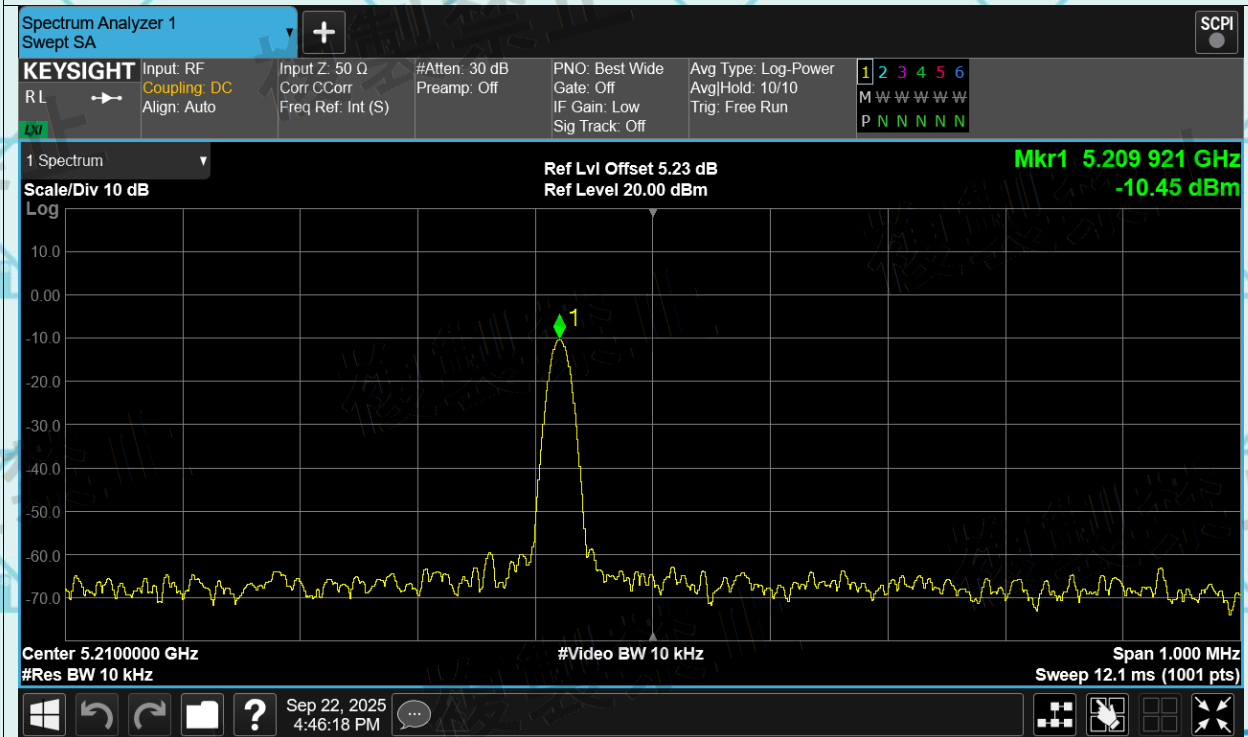


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ac40 5710MHz

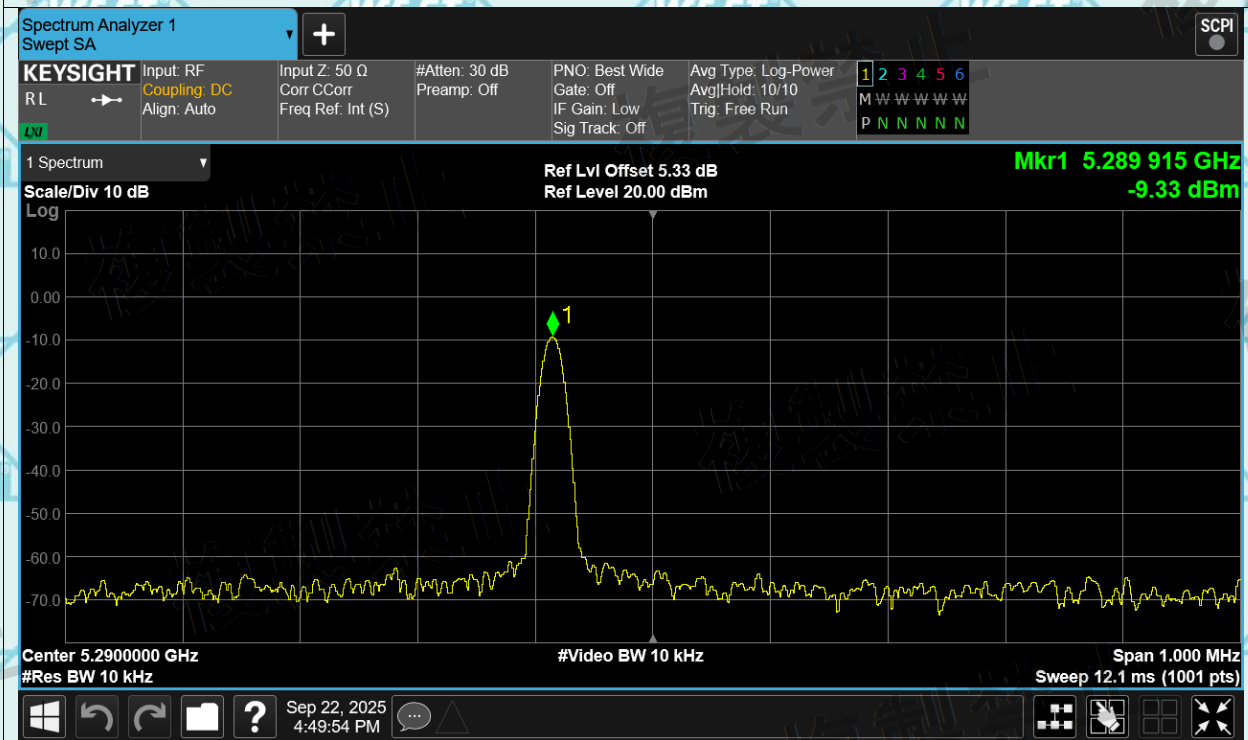


Freq. Error NVNT ac80 5210MHz

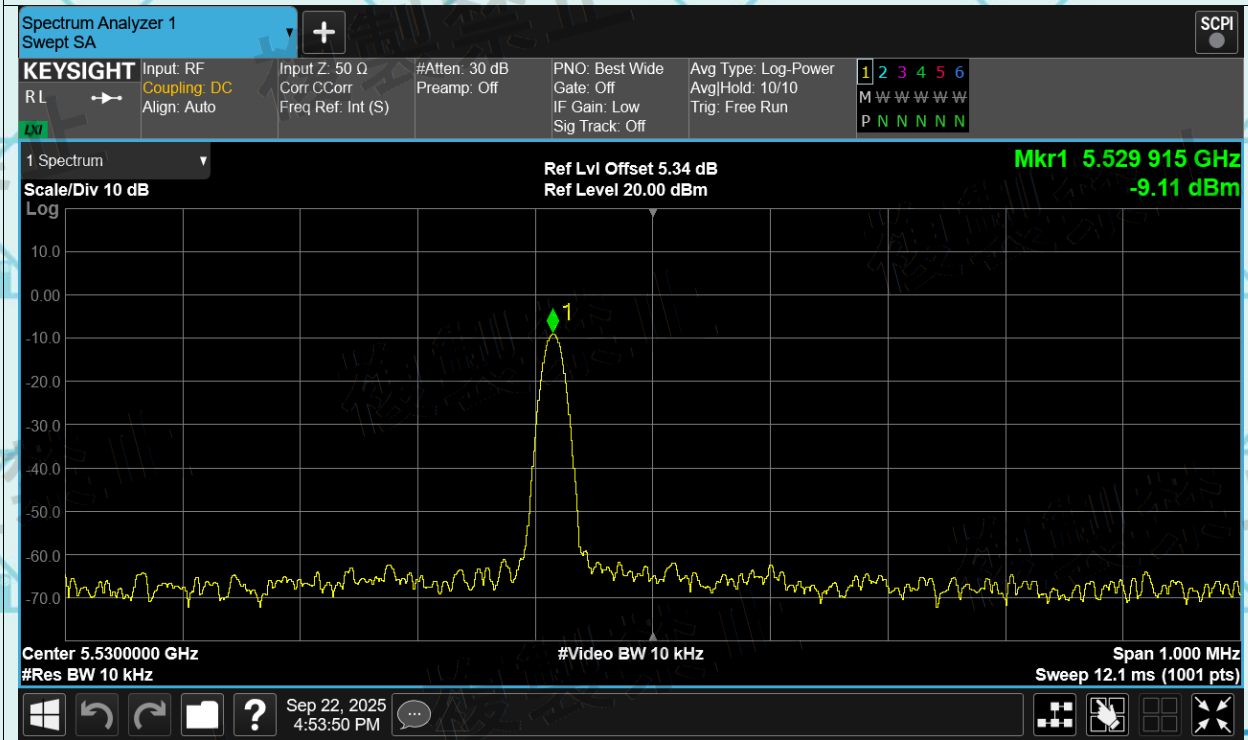


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ac80 5290MHz

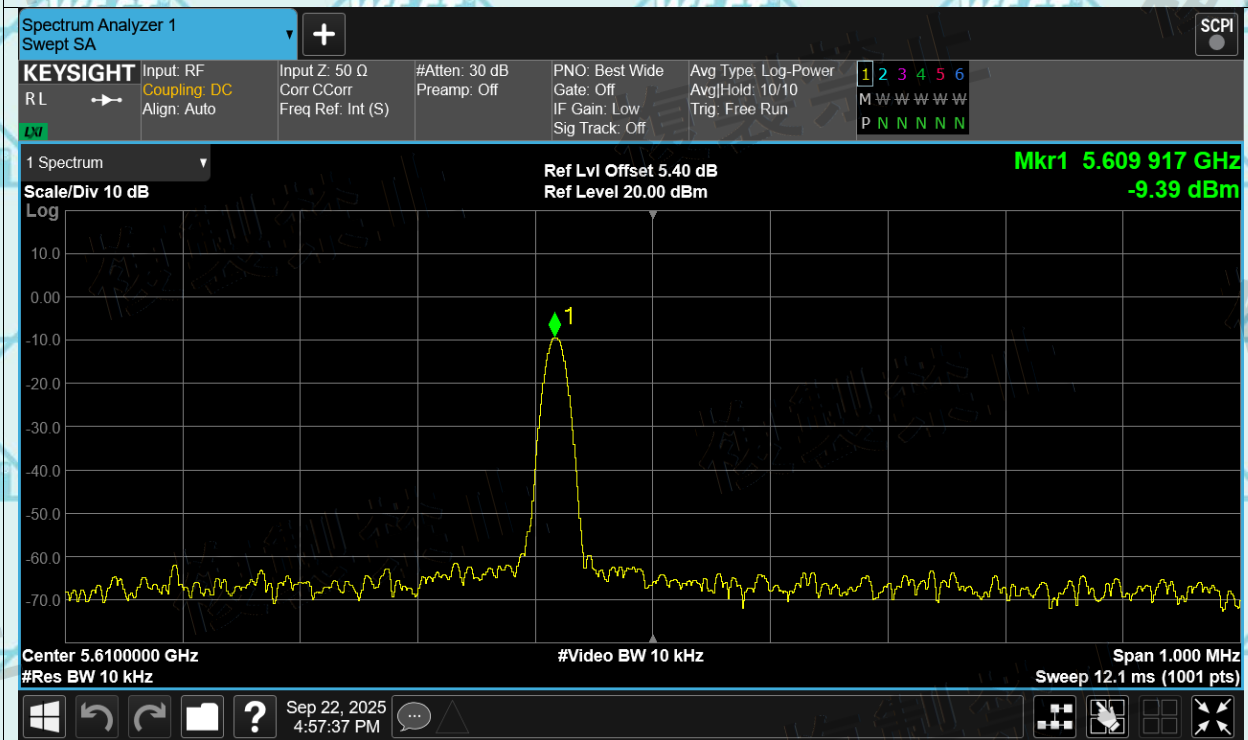


Freq. Error NVNT ac80 5530MHz

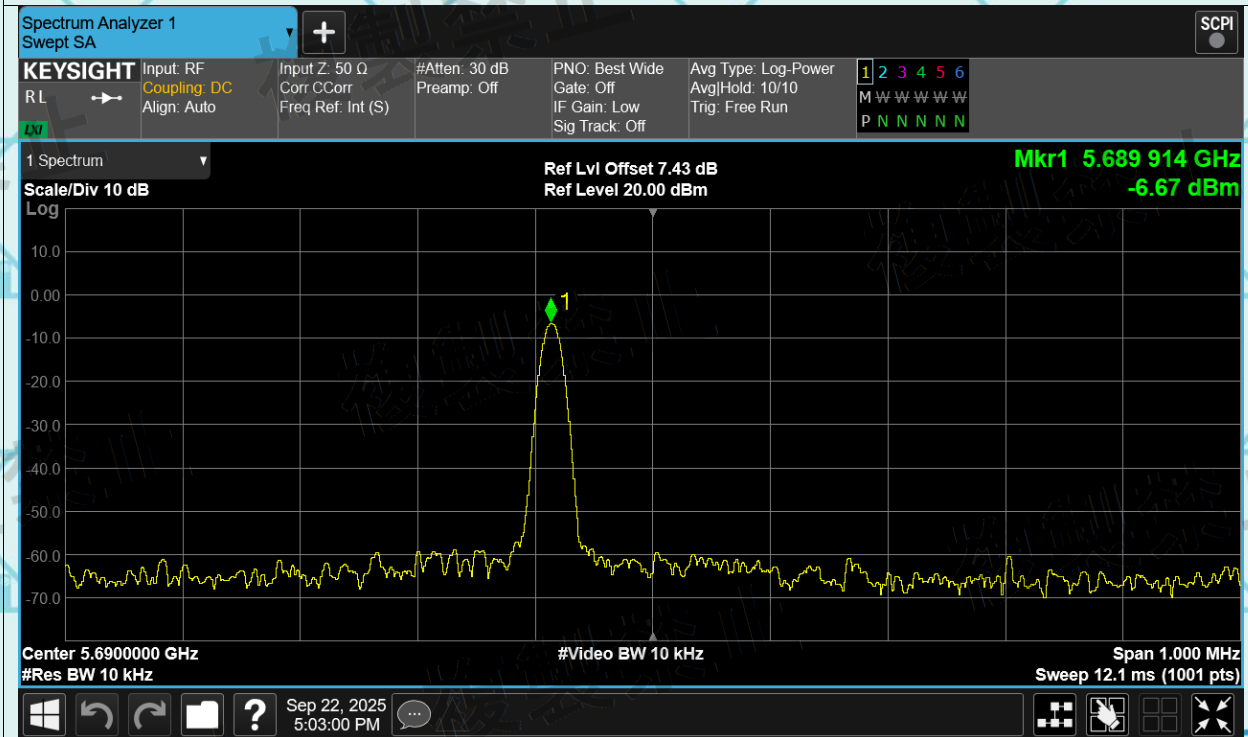


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ac80 5610MHz

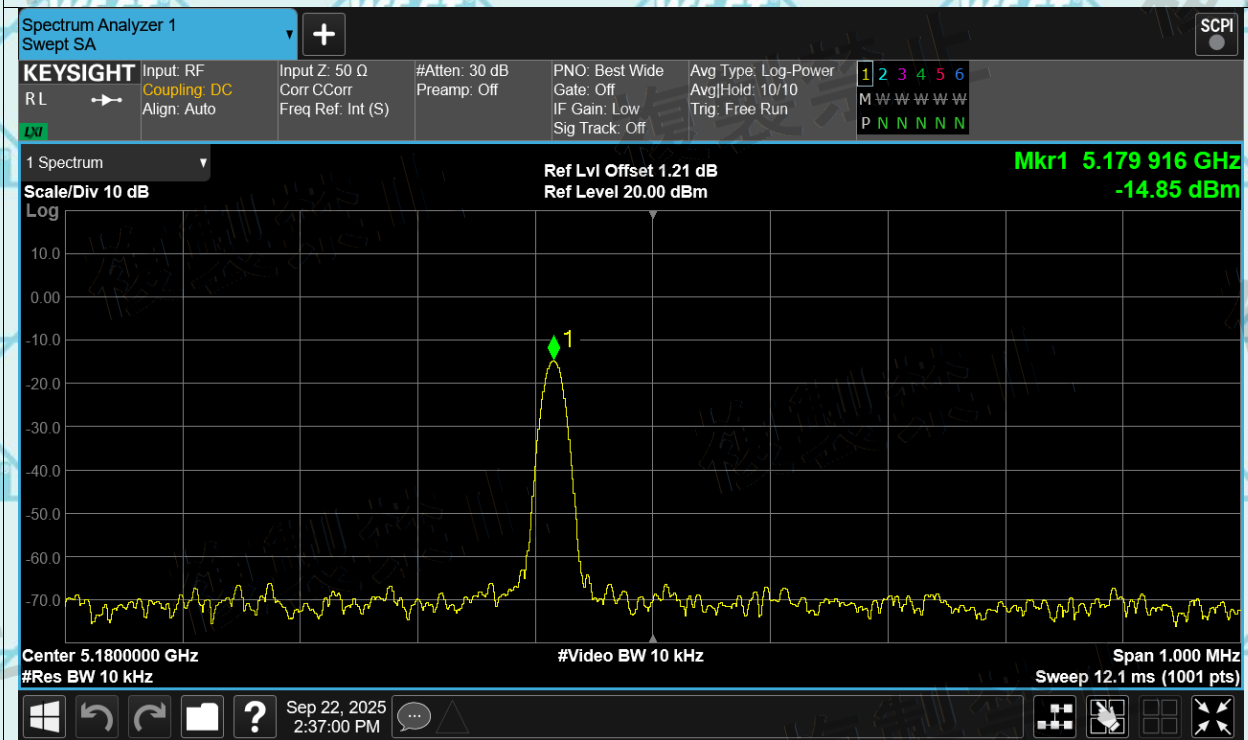


Freq. Error NVNT ac80 5690MHz

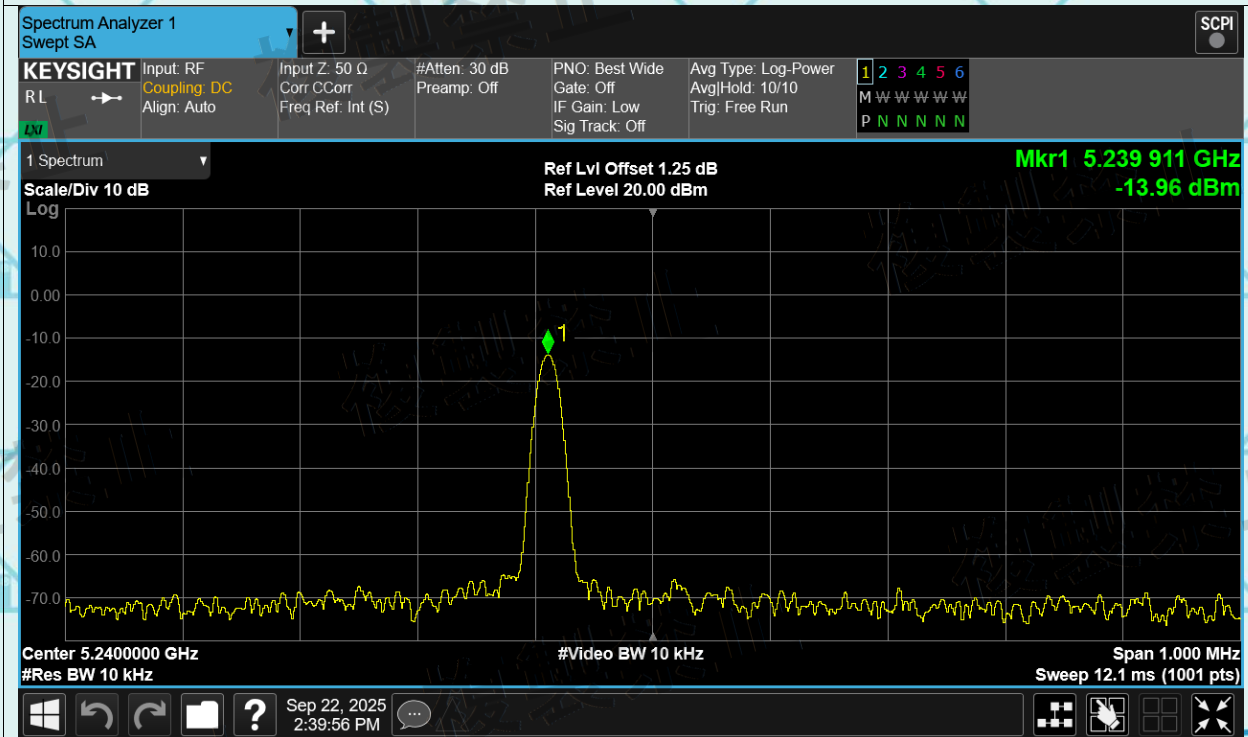


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ax20 5180MHz

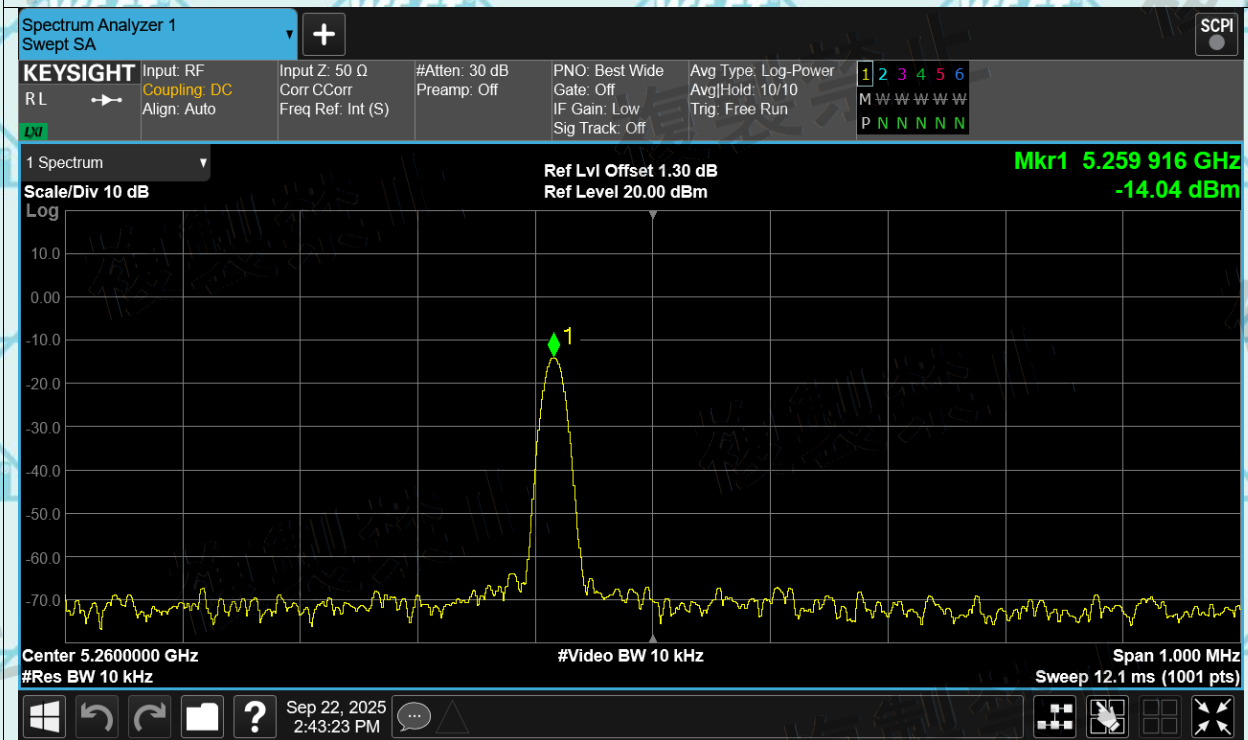


Freq. Error NVNT ax20 5240MHz

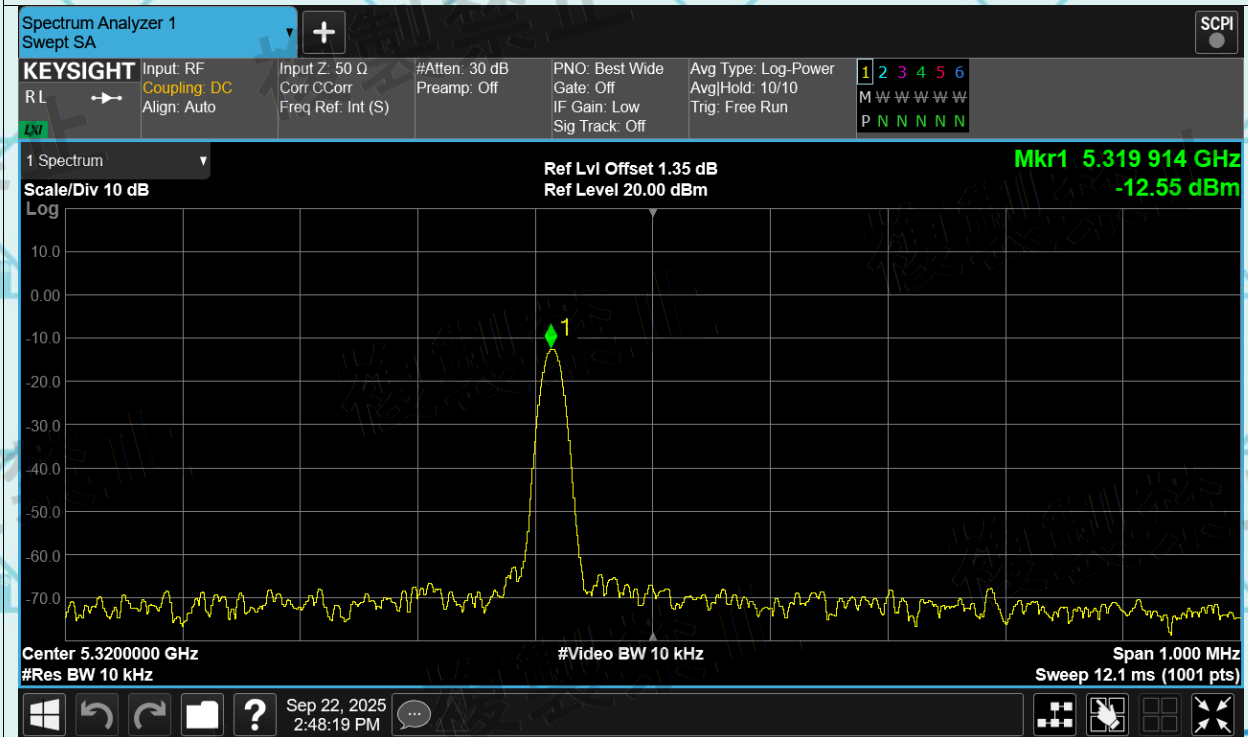


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ax20 5260MHz

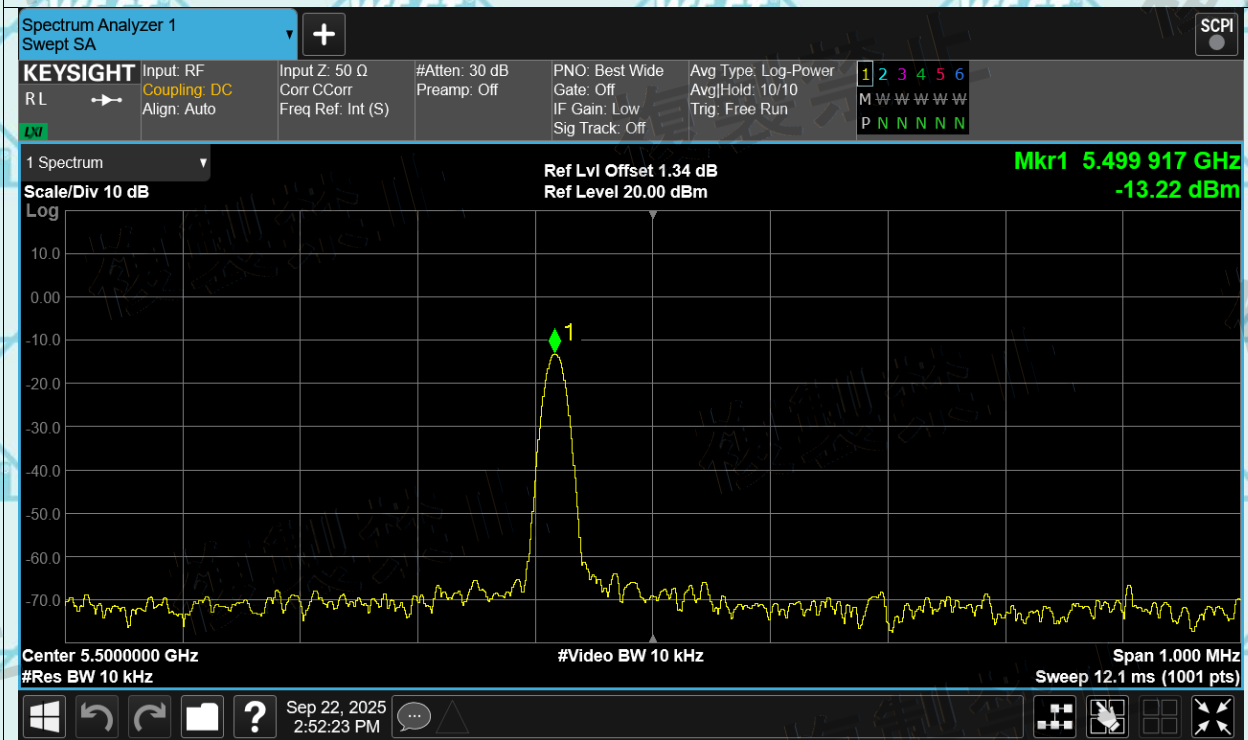


Freq. Error NVNT ax20 5320MHz

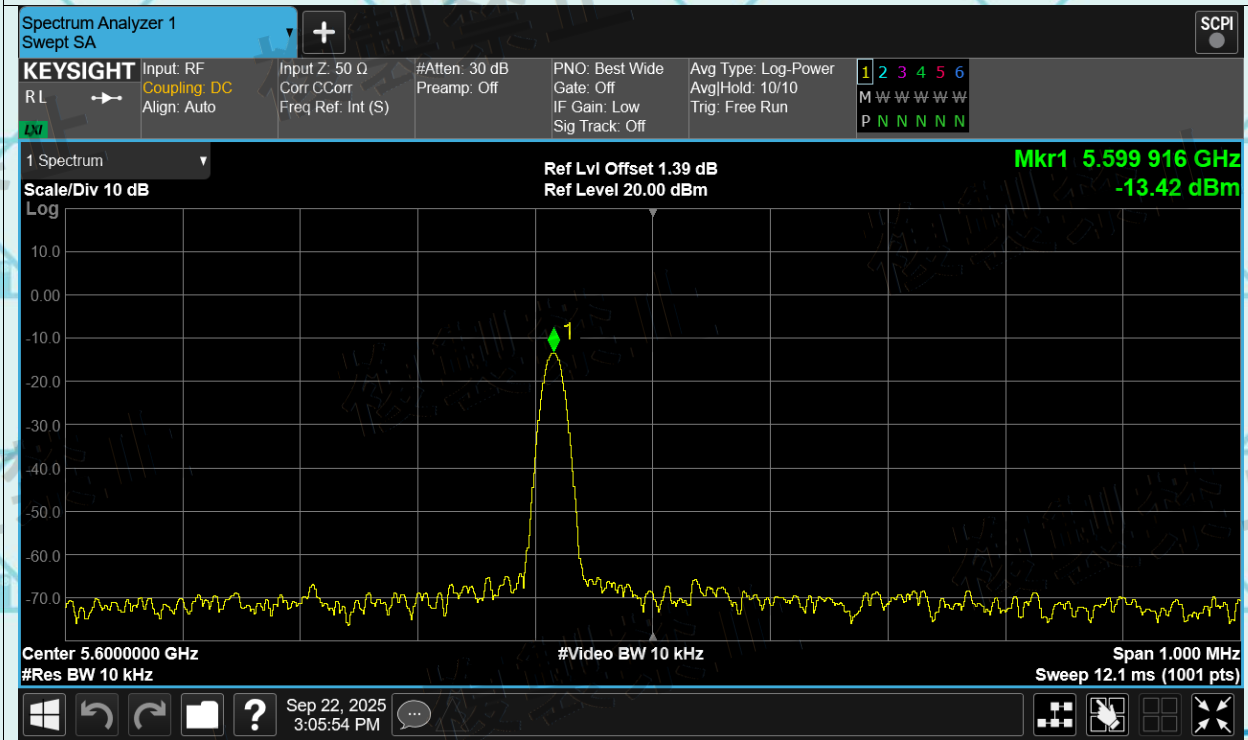


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ax20 5500MHz

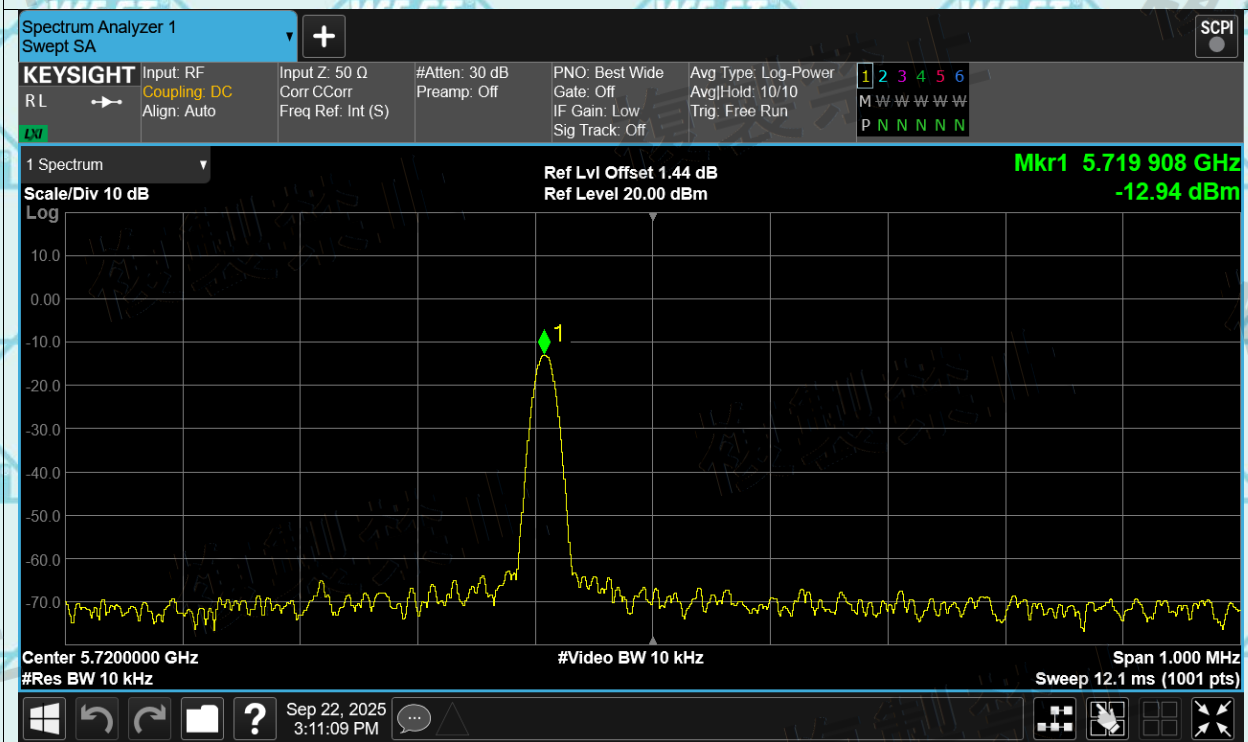


Freq. Error NVNT ax20 5600MHz

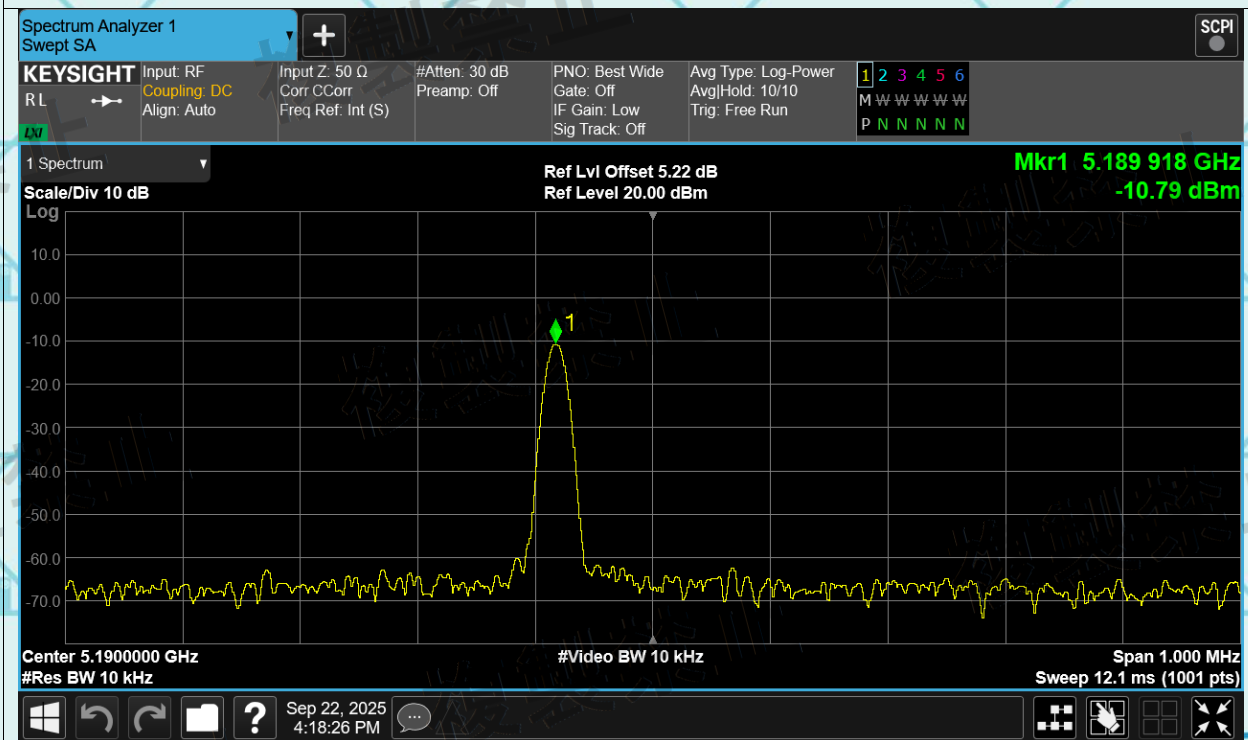


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ax20 5720MHz

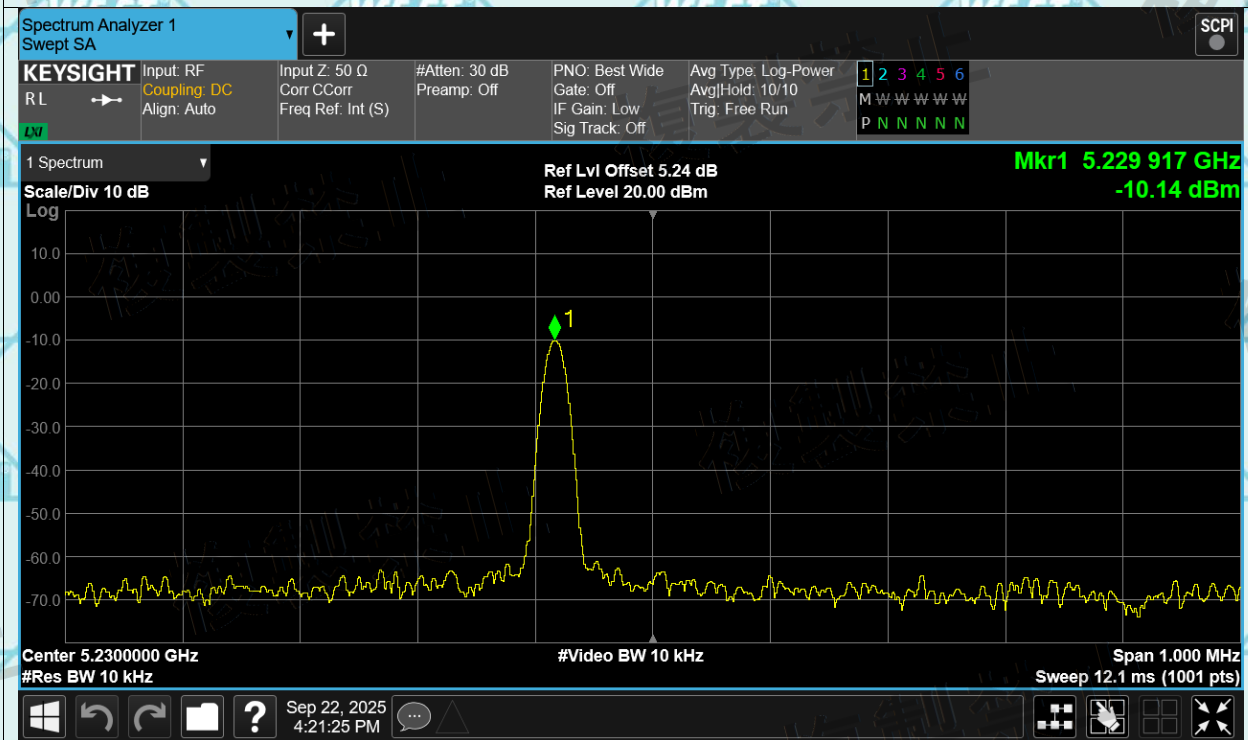


Freq. Error NVNT ax40 5190MHz

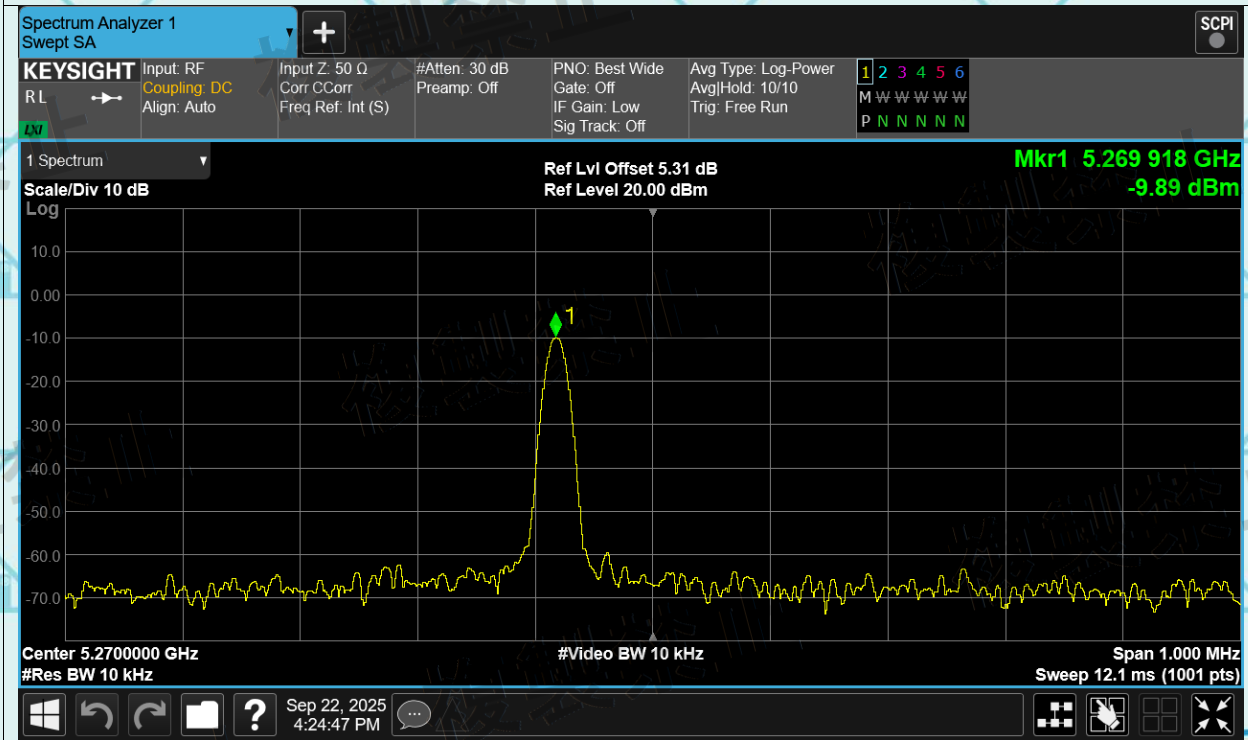


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ax40 5230MHz

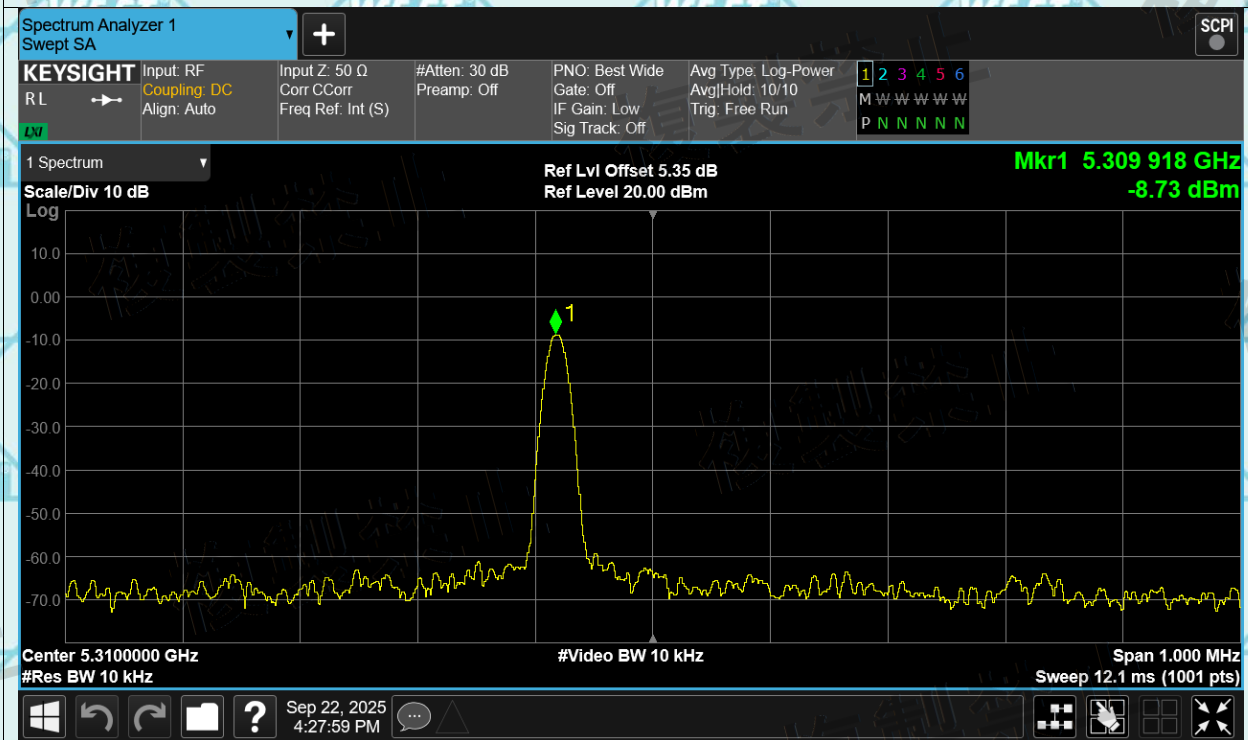


Freq. Error NVNT ax40 5270MHz

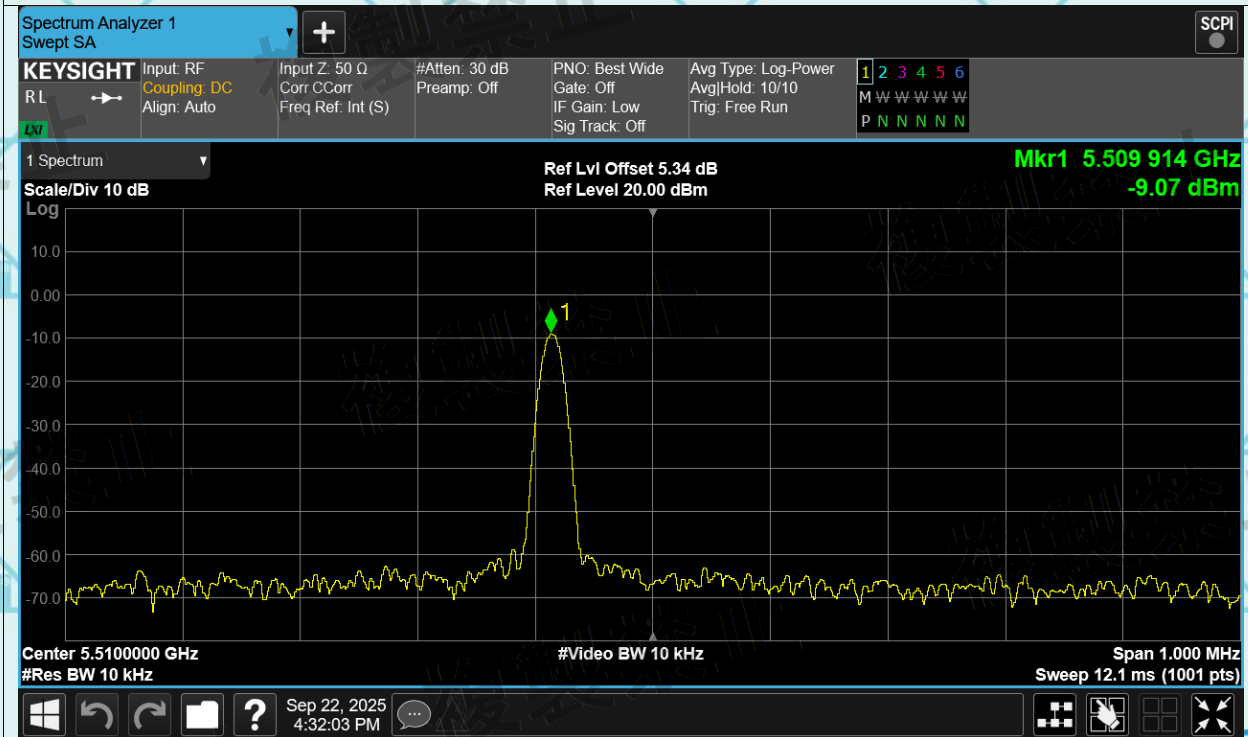


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ax40 5310MHz

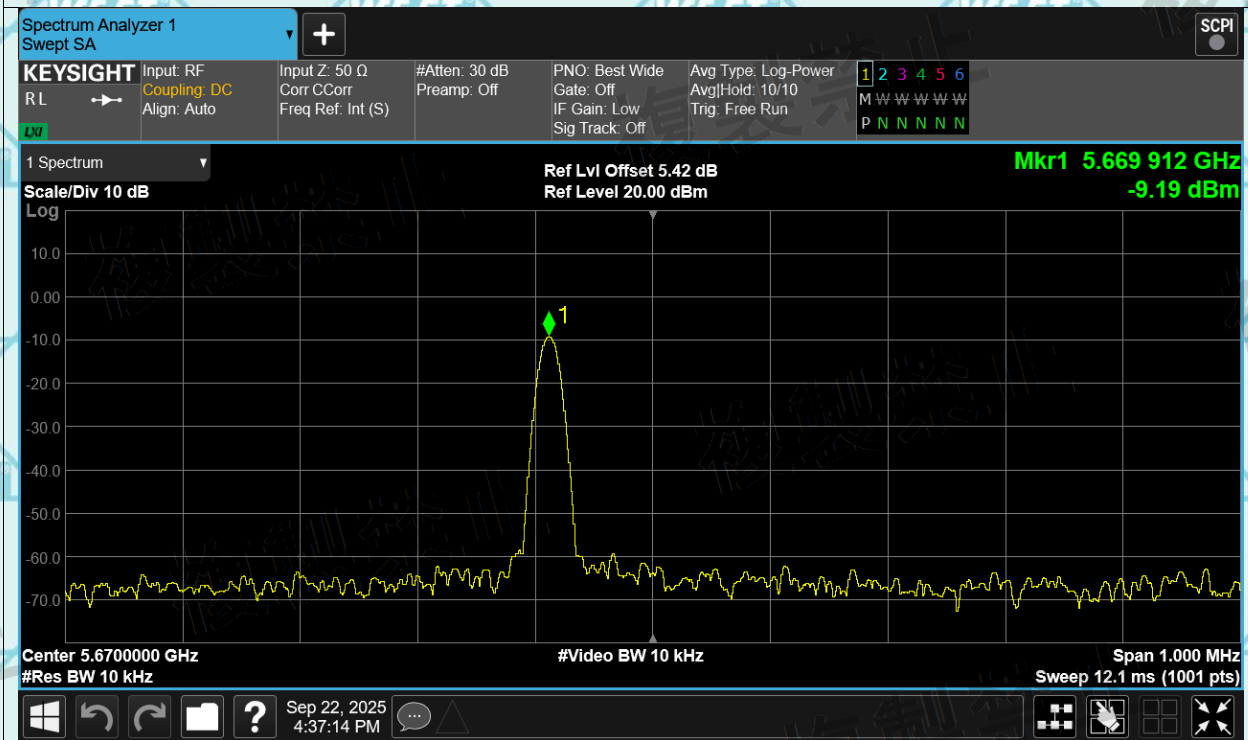


Freq. Error NVNT ax40 5510MHz

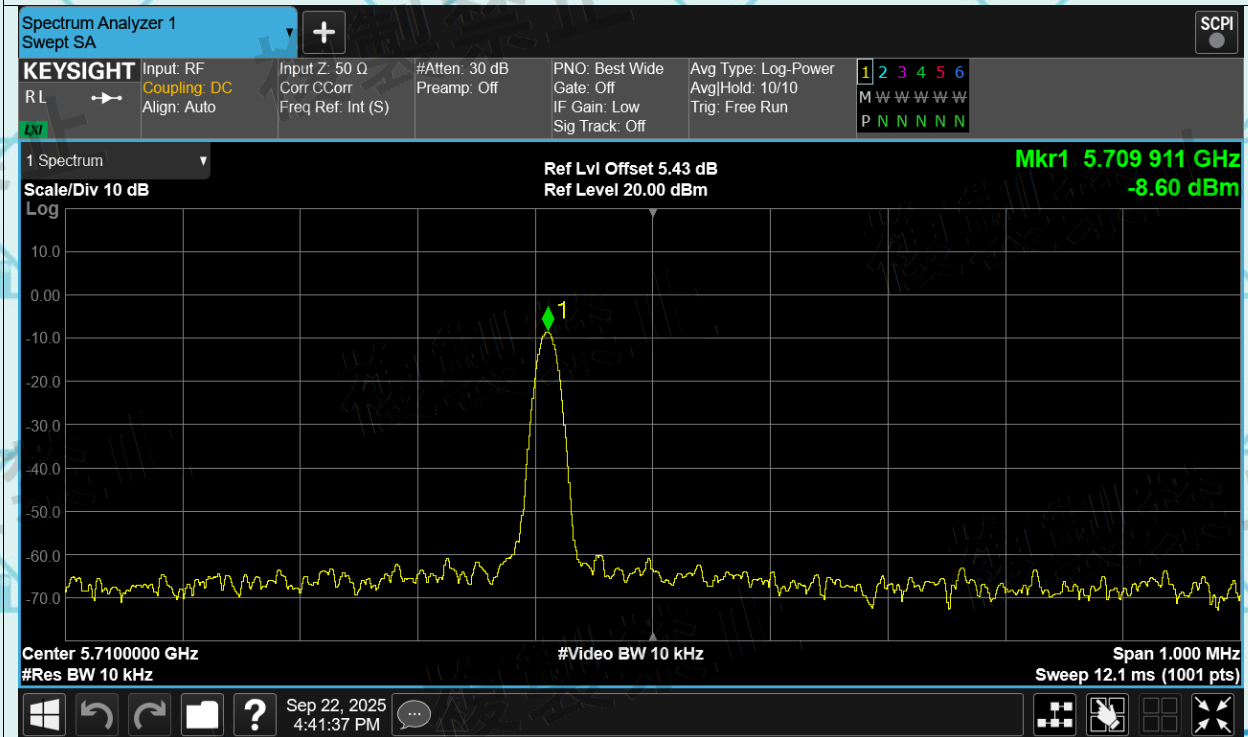


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ax40 5670MHz

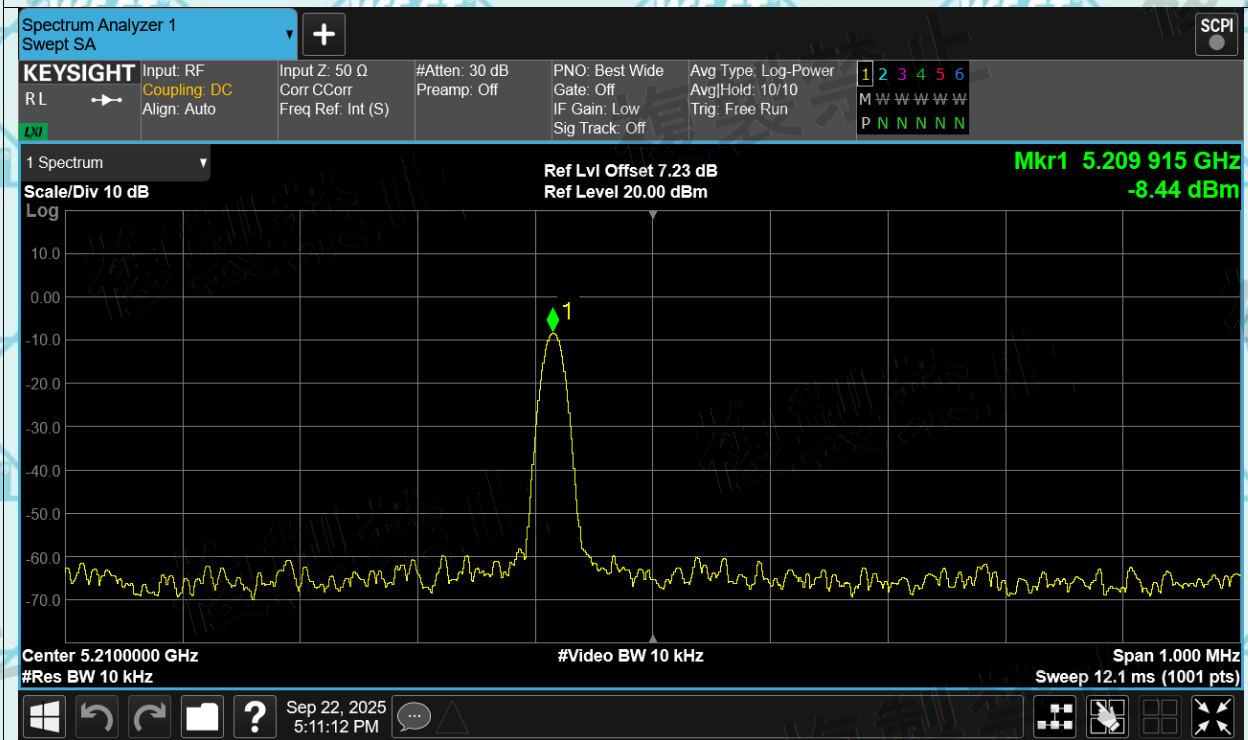


Freq. Error NVNT ax40 5710MHz

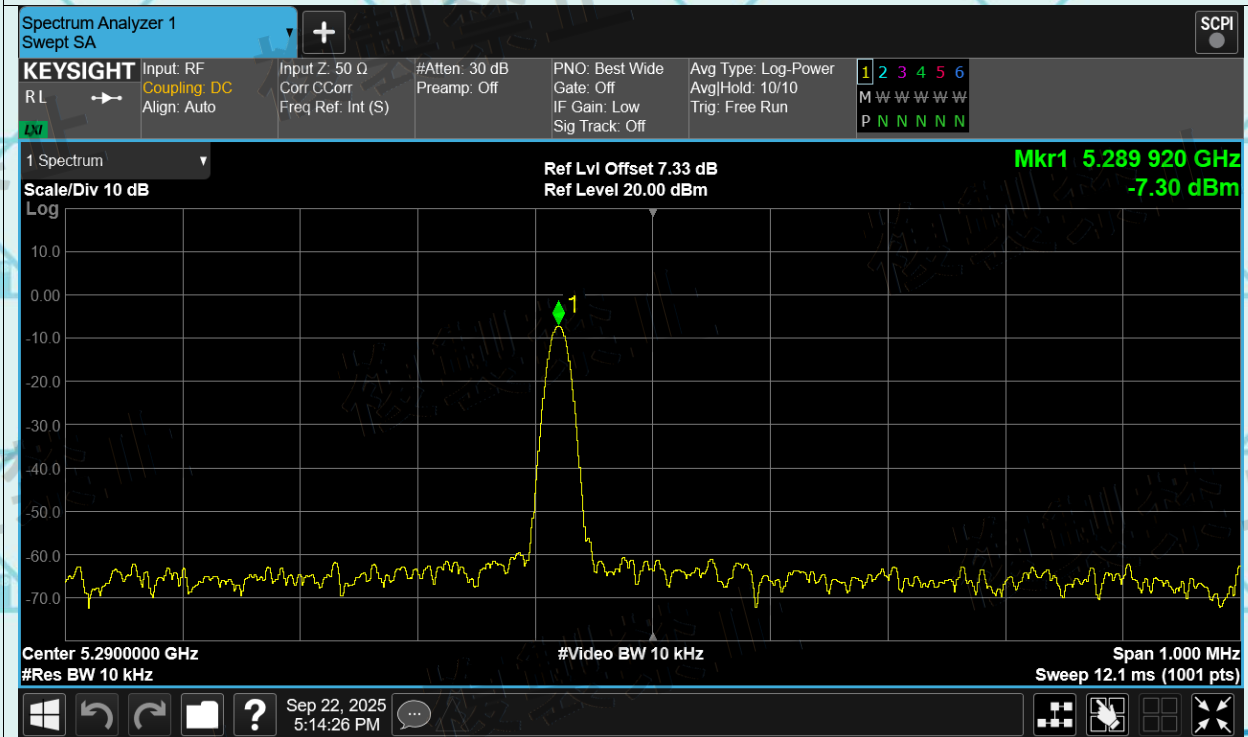


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ax80 5210MHz

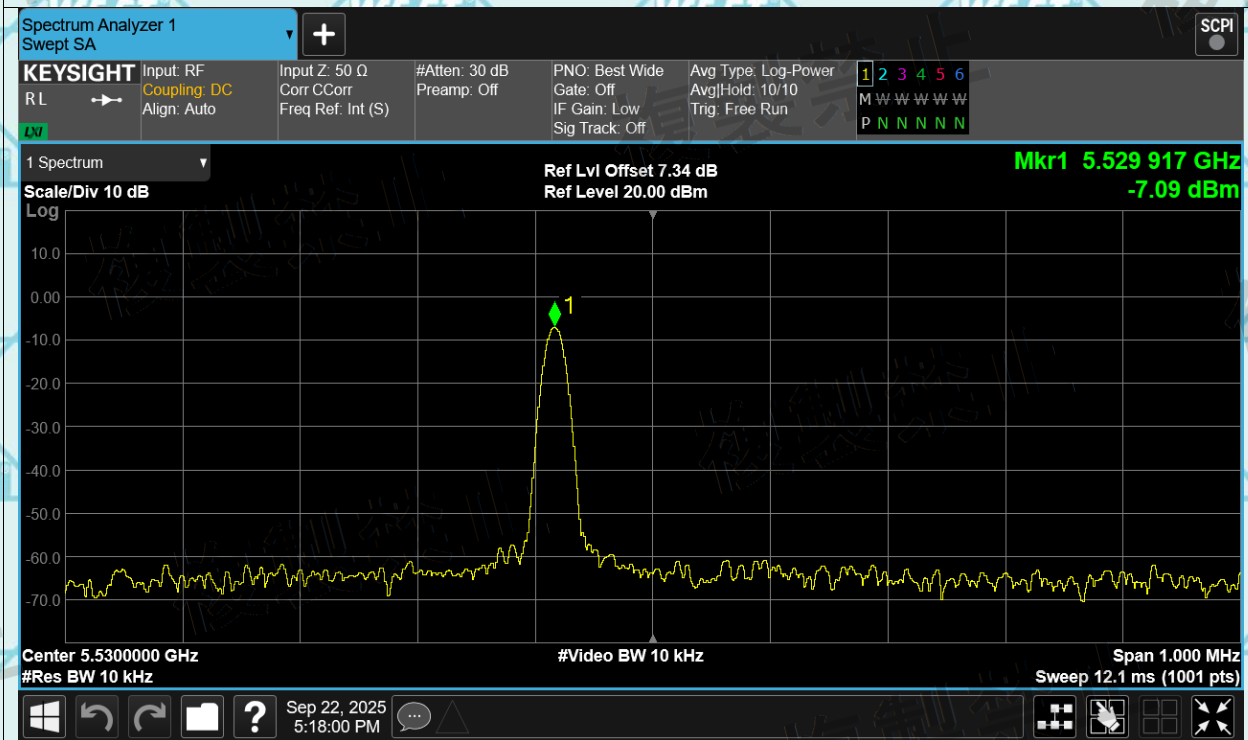


Freq. Error NVNT ax80 5290MHz

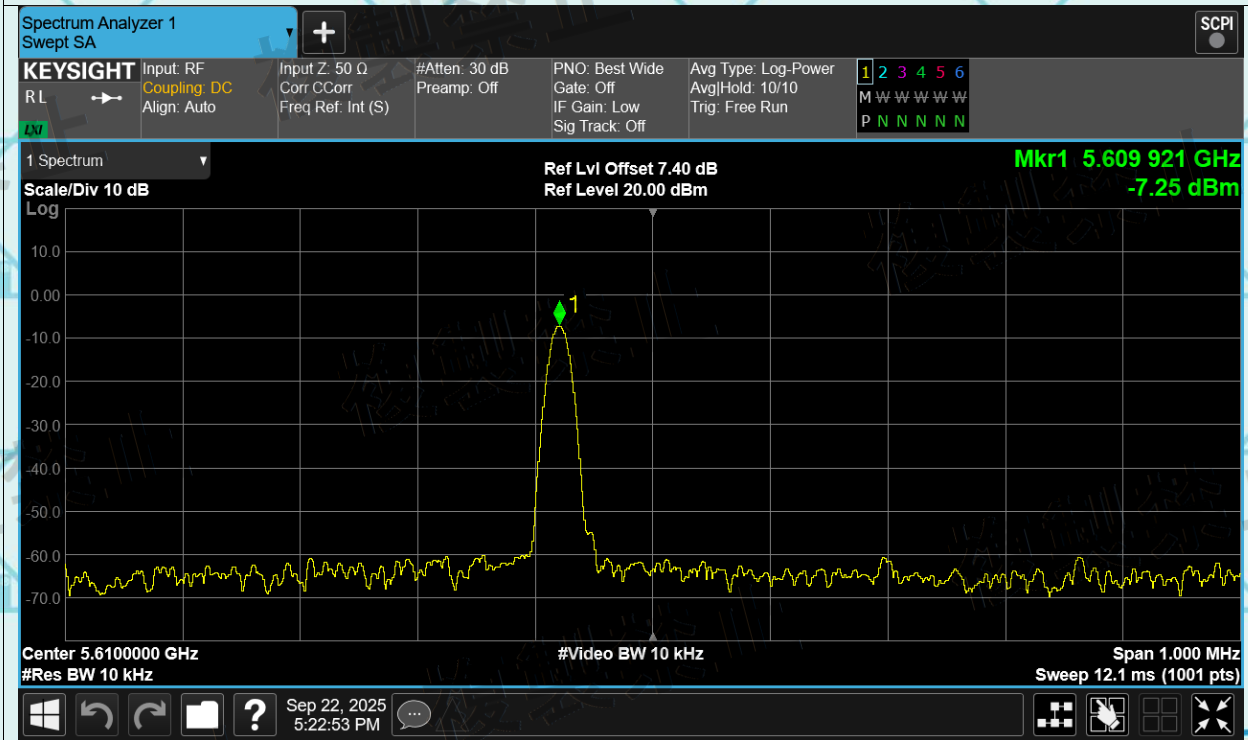


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ax80 5530MHz

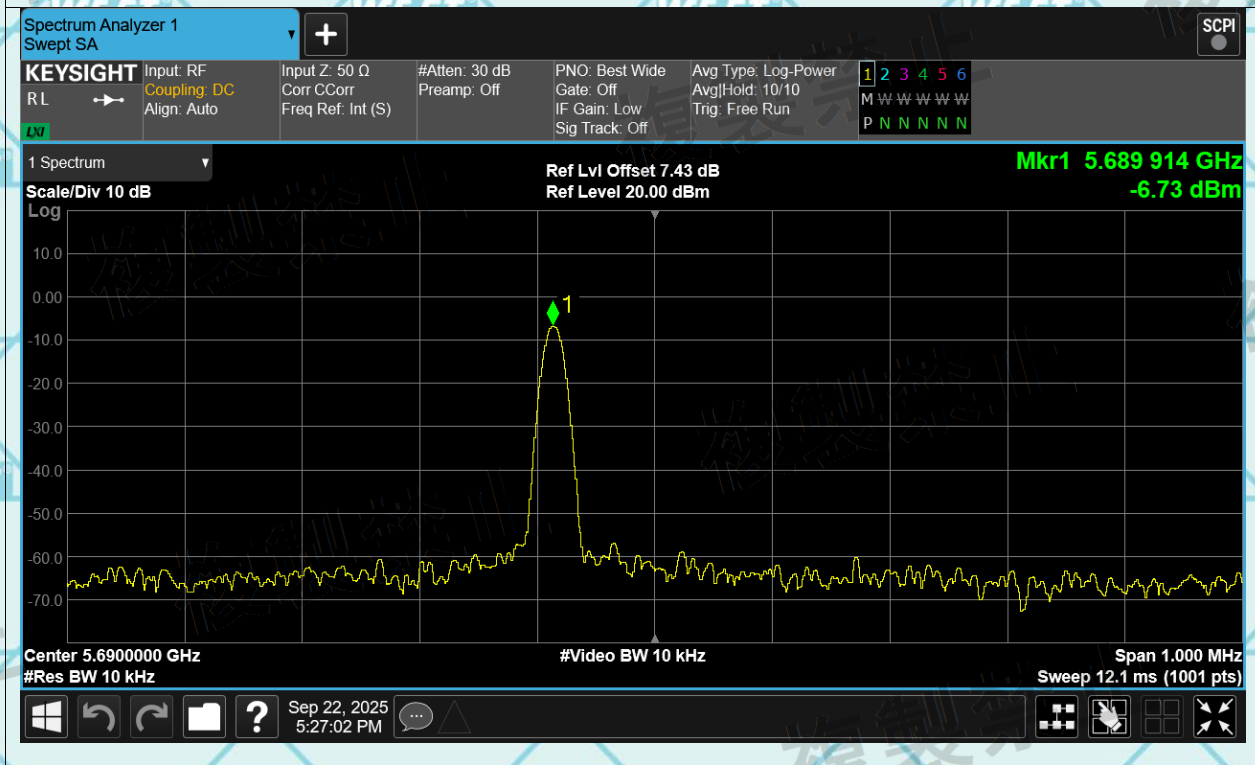


Freq. Error NVNT ax80 5610MHz



Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Freq. Error NVNT ax80 5690MHz



5. OCCUPIED BANDWIDTH (99%) TEST

5.1. Test Equipment

Same as 3.6

5.2. Test Configuration

One antenna position was evaluated based on verification that changing the diversity switch position did not affect the occupied bandwidth of the center channel at nominal voltage.

The occupied bandwidth was measured with the spectrum analyzer configured according to the table below. The occupied bandwidth was determined from the 99% power bandwidth by determining the highest and lowest frequencies at which 99.5% of the power was captured and then subtracting the two numbers.

The limits are as follows:

Modulation Type	Occupied Band Width
20MHz system for 5.2/5.3GHz (OFDM)	<20 MHz
20MHz system for 5.2/5.3GHz (Other)	<20 MHz
40MHz system for 5.2/5.3GHz (OFDM)	<40 MHz
20MHz system for 5.5/5.6GHz (OFDM)	<20 MHz
40MHz system for 5.5/5.6GHz (OFDM)	<40 MHz
80MHz system for 5.21/5.29GHz (OFDM)	<80 MHz

The calculation was done by either the analyzer directly or via the software used to capture the plot.

Instrument Settings and Test Requirements				
Modulation Type	Analyzer Settings			
	Span	RB	VB	Other
OFDM (eg 802.11an)	36-163 MHz	≤540kHz	300kHz	Sample detector, averaging (10 sweeps)2, sweep time auto1)

Note 1: For burst transmissions sweep time set to ensure dwell time in each bandwidth > transmission cycle time (sweep time = transmit cycle time x span/ measurement bandwidth)

Note 2: For burst transmissions trace set for max hold and detector set to positive peak.

5.3. Test Procedure

Set the spectrum analyzer as follows:

Center frequency: Test frequency (e.g. 5180 MHz);

Frequency sweep width: 2 to 3.5 times wider than the tolerance (e.g. 40 MHz);

Resolution bandwidth: 3% or less of the tolerance (e.g. 300 kHz);

Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Video bandwidth: Approximately same as the resolution bandwidth;

Y-axis scale: 10 dB/div;

Input level: Carrier level shall be enough higher than noise level of the spectrum analyzer;

Sweep time: Minimum time to ensure the measuring accuracy (In case of burst wave, one burst shall be include in one sample at least.);

Number of data points: 400 points or more (e.g. 1001 points);

Sweep mode: Continuous sweep;

Number of times for averaging: 10 times or more;

Detection mode: Sample (Positive peak for burst wave). Values measured with a spectrum analyzer shall be processed using an external or a built-in computer.



Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

5.3. Test Results

Normal Voltage

Condition	Mode	Frequency (MHz)	99% OBW (MHz)	Limit (MHz)	Verdict
NVNT	a	5180	16.538	≤20	Pass
NVNT	a	5240	16.543	≤20	Pass
NVNT	a	5260	16.557	≤20	Pass
NVNT	a	5320	16.555	≤20	Pass
NVNT	a	5500	16.679	≤20	Pass
NVNT	a	5600	16.664	≤20	Pass
NVNT	a	5720	16.653	≤20	Pass
NVNT	n20	5180	17.729	≤20	Pass
NVNT	n20	5240	17.731	≤20	Pass
NVNT	n20	5260	17.751	≤20	Pass
NVNT	n20	5320	17.736	≤20	Pass
NVNT	n20	5500	17.85	≤20	Pass
NVNT	n20	5600	17.836	≤20	Pass
NVNT	n20	5720	17.819	≤20	Pass
NVNT	n40	5190	36.169	≤40	Pass
NVNT	n40	5230	36.163	≤40	Pass
NVNT	n40	5270	36.185	≤40	Pass
NVNT	n40	5310	36.161	≤40	Pass
NVNT	n40	5510	36.304	≤40	Pass
NVNT	n40	5670	36.289	≤40	Pass
NVNT	n40	5710	36.285	≤40	Pass
NVNT	ac20	5180	17.744	≤20	Pass
NVNT	ac20	5240	17.737	≤20	Pass
NVNT	ac20	5260	17.753	≤20	Pass
NVNT	ac20	5320	17.744	≤20	Pass
NVNT	ac20	5500	17.855	≤20	Pass
NVNT	ac20	5600	17.839	≤20	Pass
NVNT	ac20	5720	17.817	≤20	Pass
NVNT	ac40	5190	36.163	≤40	Pass
NVNT	ac40	5230	36.175	≤40	Pass
NVNT	ac40	5270	36.201	≤40	Pass
NVNT	ac40	5310	36.193	≤40	Pass
NVNT	ac40	5510	36.321	≤40	Pass
NVNT	ac40	5670	36.309	≤40	Pass
NVNT	ac40	5710	36.302	≤40	Pass
NVNT	ac80	5210	75.465	≤80	Pass
NVNT	ac80	5290	75.559	≤80	Pass
NVNT	ac80	5530	75.861	≤80	Pass
NVNT	ac80	5610	75.866	≤80	Pass
NVNT	ac80	5690	75.73	≤80	Pass
NVNT	ax20	5180	19.004	≤20	Pass
NVNT	ax20	5240	19.001	≤20	Pass
NVNT	ax20	5260	19.013	≤20	Pass
NVNT	ax20	5320	19.009	≤20	Pass
NVNT	ax20	5500	19.102	≤20	Pass
NVNT	ax20	5600	19.105	≤20	Pass
NVNT	ax20	5720	19.111	≤20	Pass
NVNT	ax40	5190	37.749	≤40	Pass
NVNT	ax40	5230	37.771	≤40	Pass
NVNT	ax40	5270	37.788	≤40	Pass
NVNT	ax40	5310	37.759	≤40	Pass
NVNT	ax40	5510	37.937	≤40	Pass
NVNT	ax40	5670	37.921	≤40	Pass

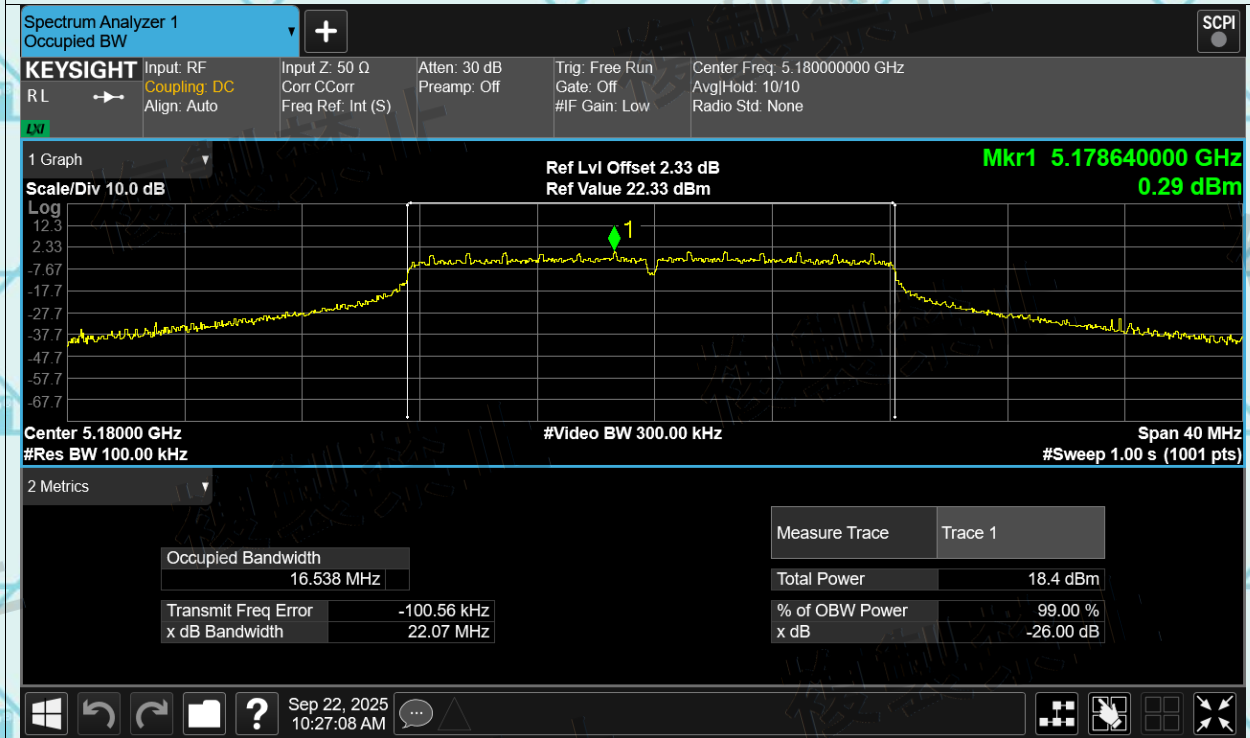
Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

NVNT	ax40	5710	37.891	≤40	Pass
NVNT	ax80	5210	77.064	≤80	Pass
NVNT	ax80	5290	75.562	≤80	Pass
NVNT	ax80	5530	75.874	≤80	Pass
NVNT	ax80	5610	75.837	≤80	Pass
NVNT	ax80	5690	75.732	≤80	Pass

Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Test Graphs

OBW NVNT a 5180MHz

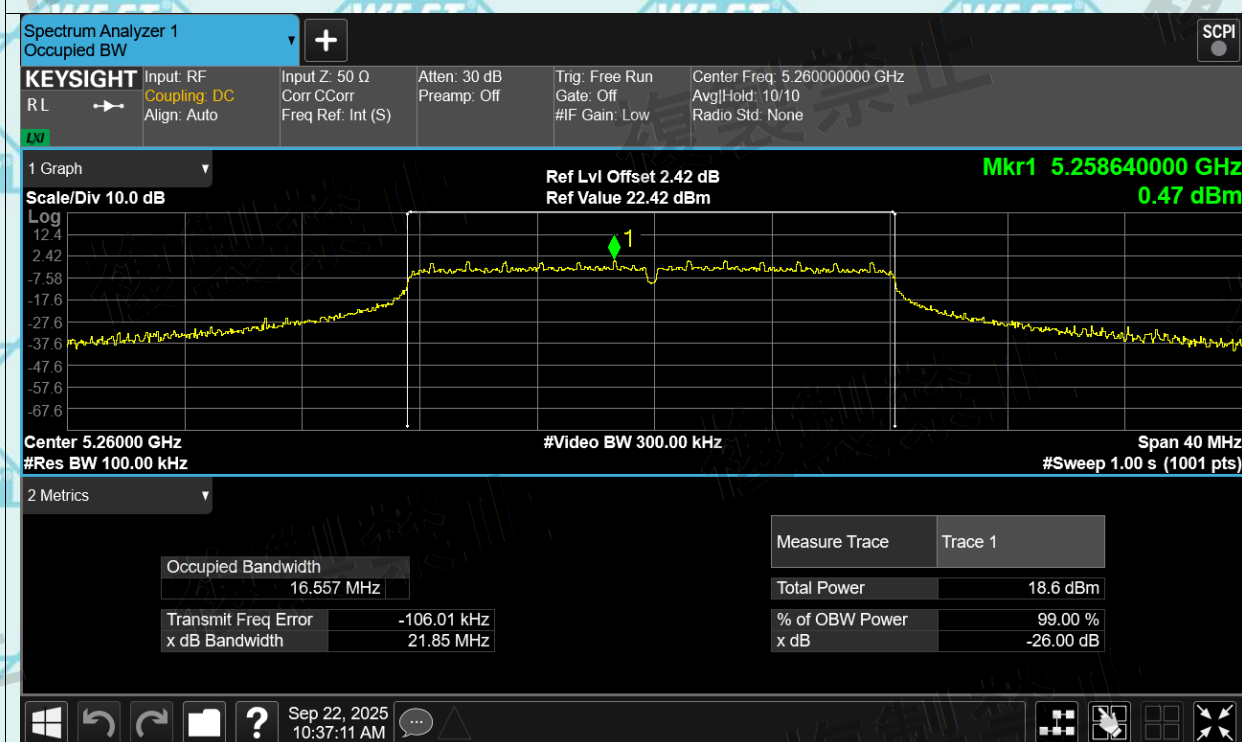


OBW NVNT a 5240MHz



Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT a 5260MHz

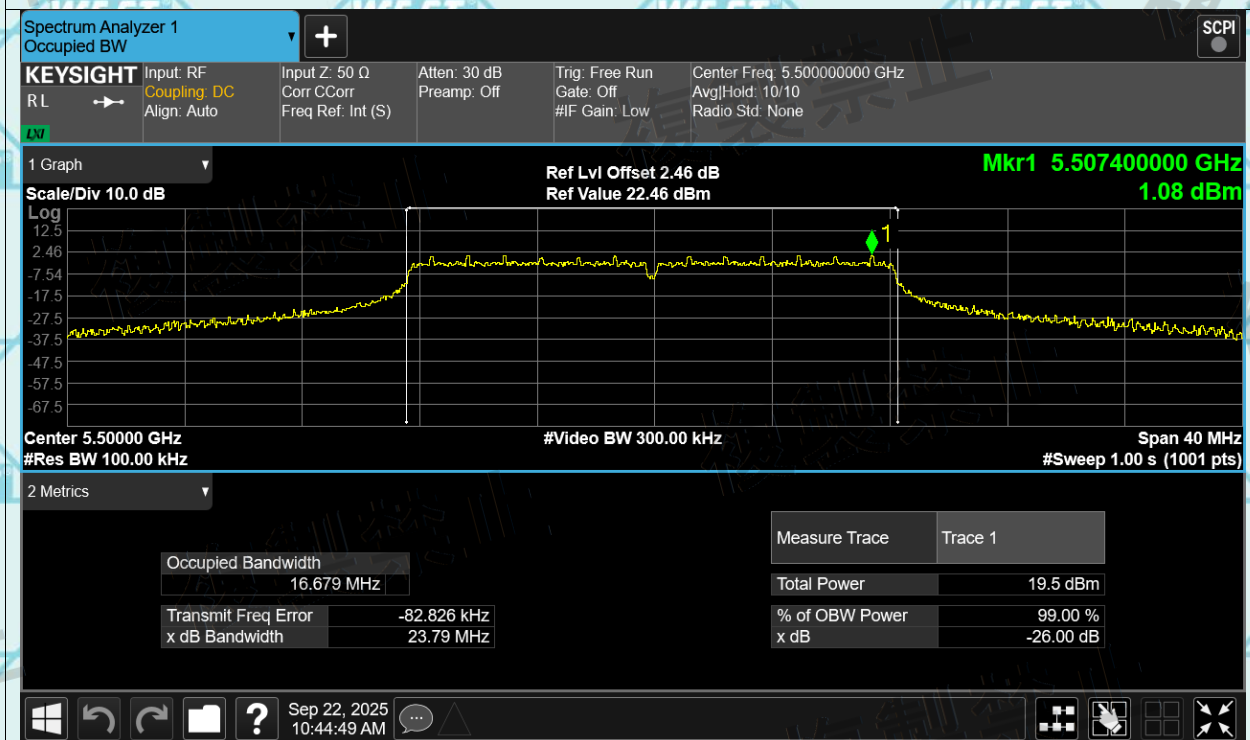


OBW NVNT a 5320MHz



Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT a 5500MHz

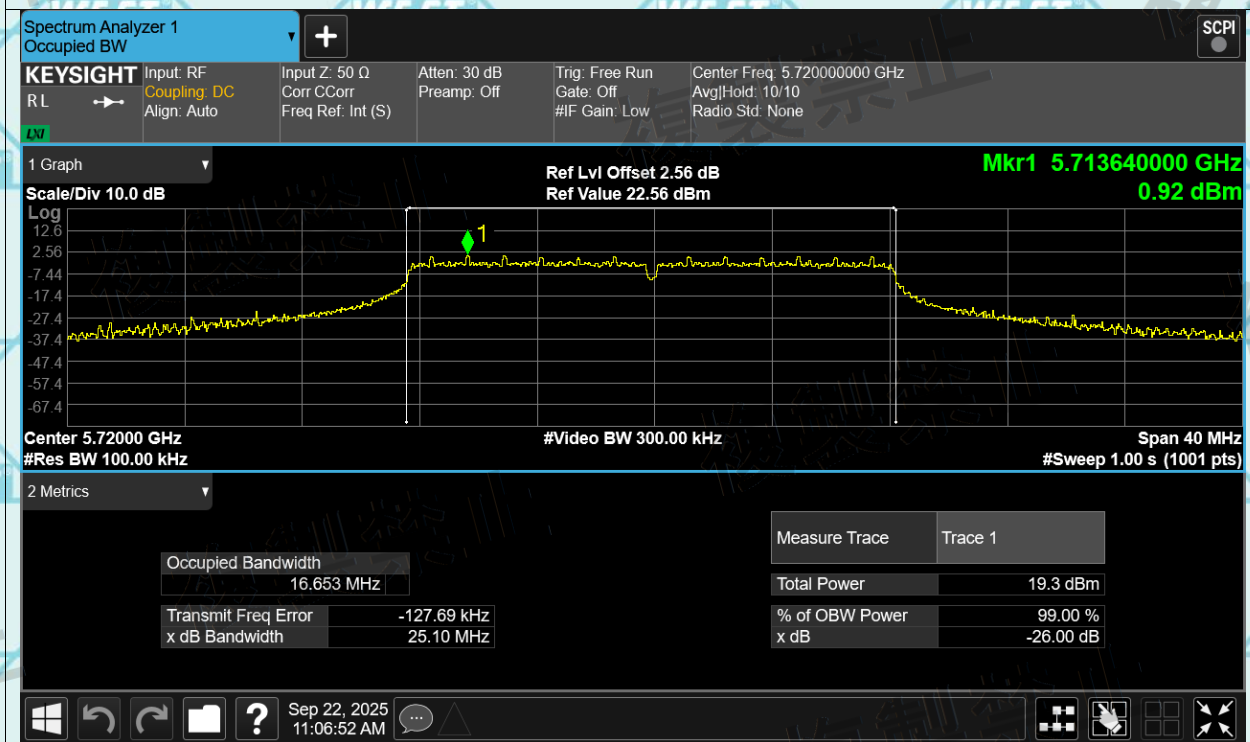


OBW NVNT a 5600MHz



Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT a 5720MHz

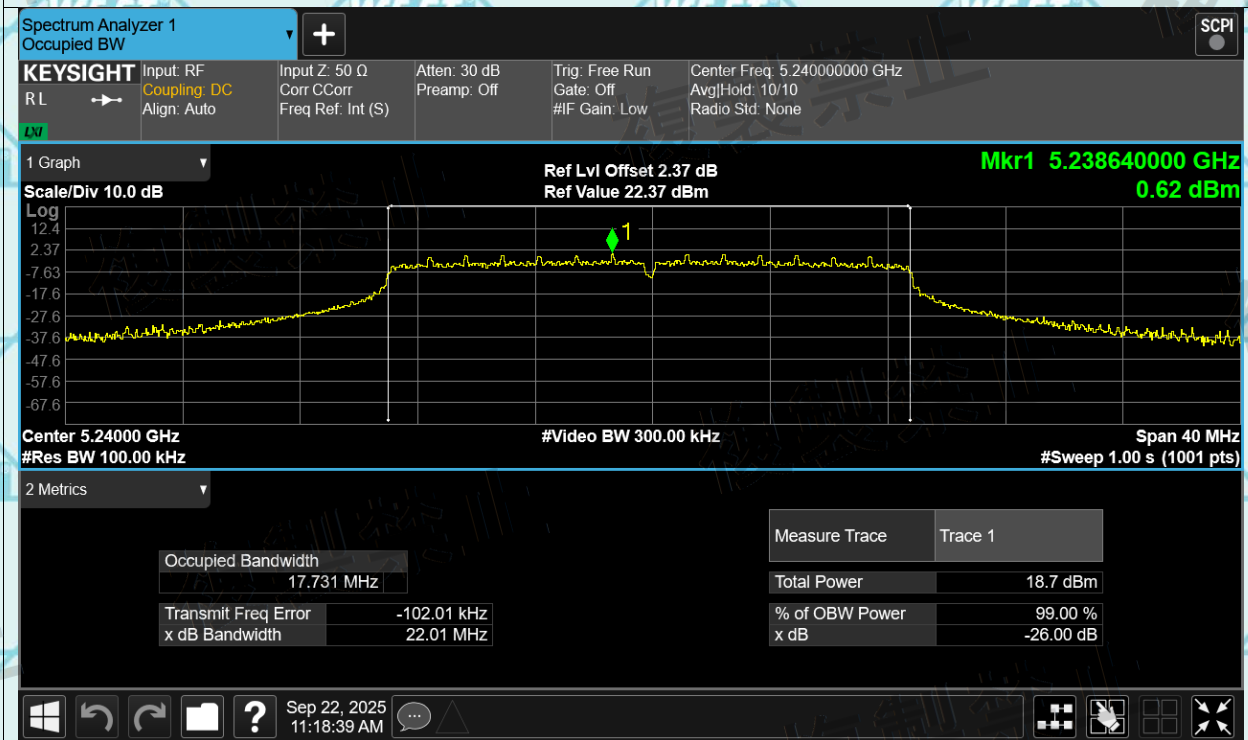


OBW NVNT n20 5180MHz

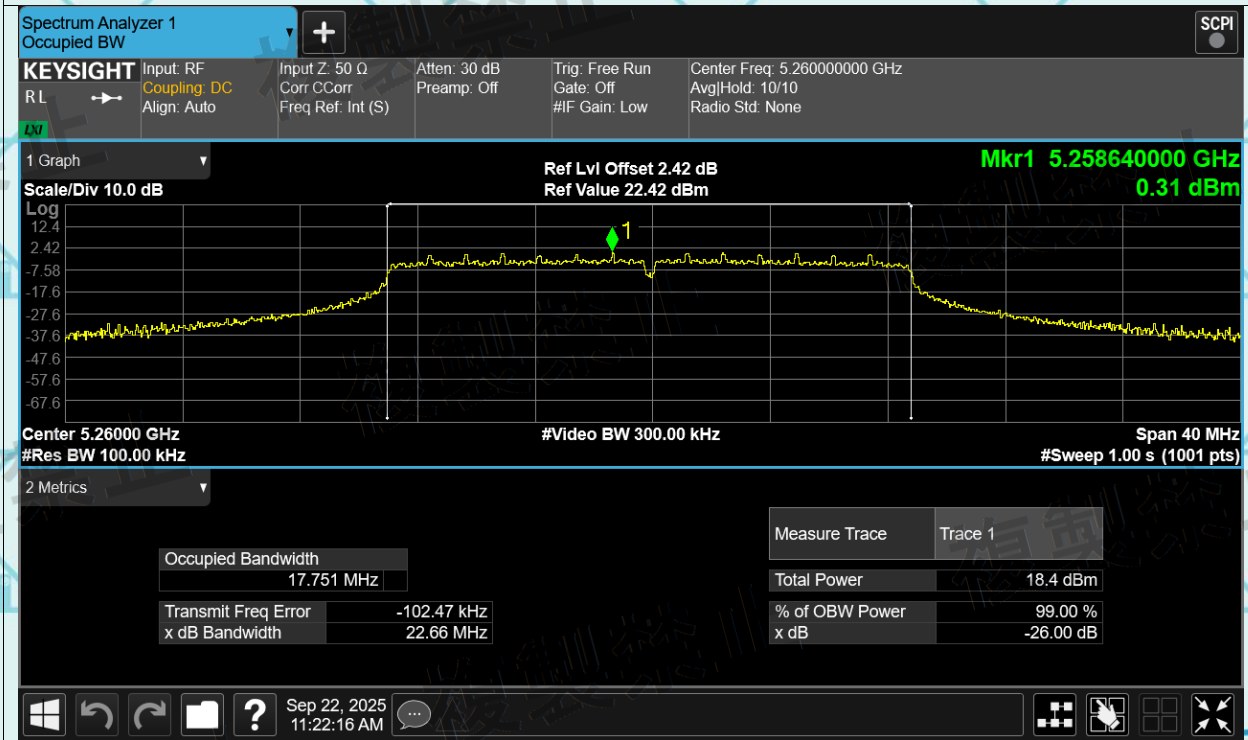


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT n20 5240MHz

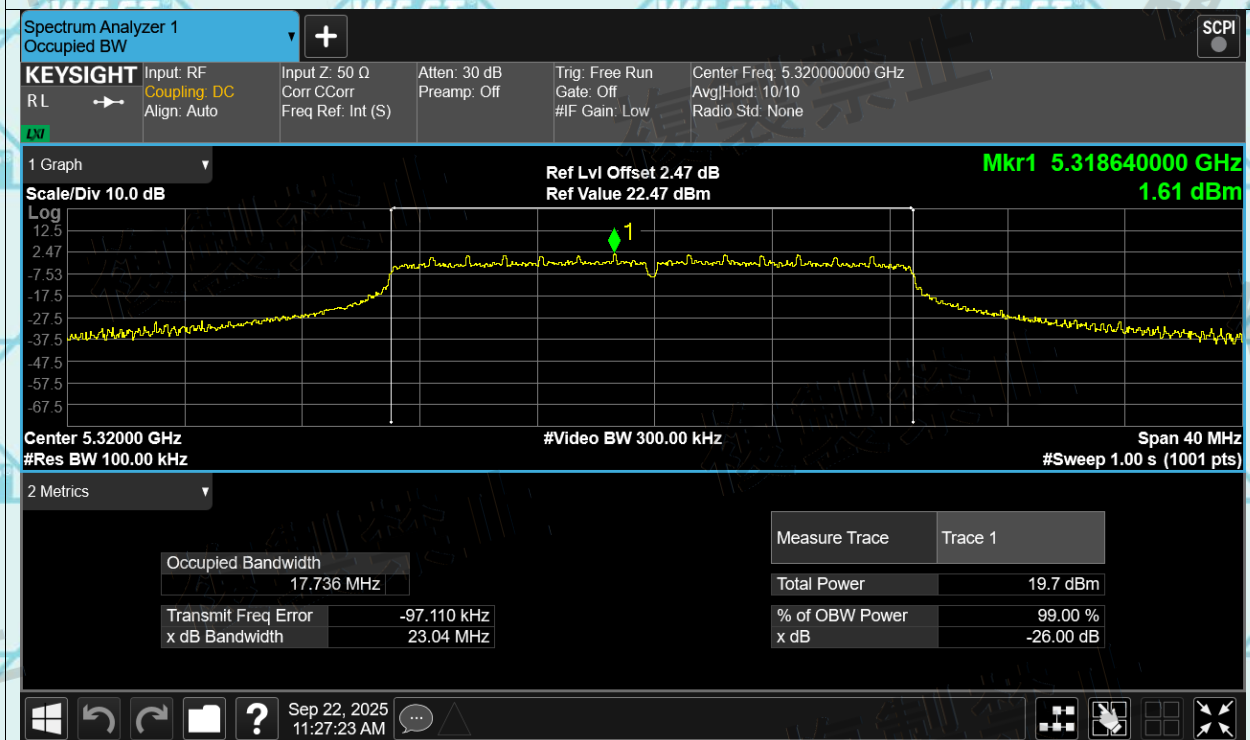


OBW NVNT n20 5260MHz

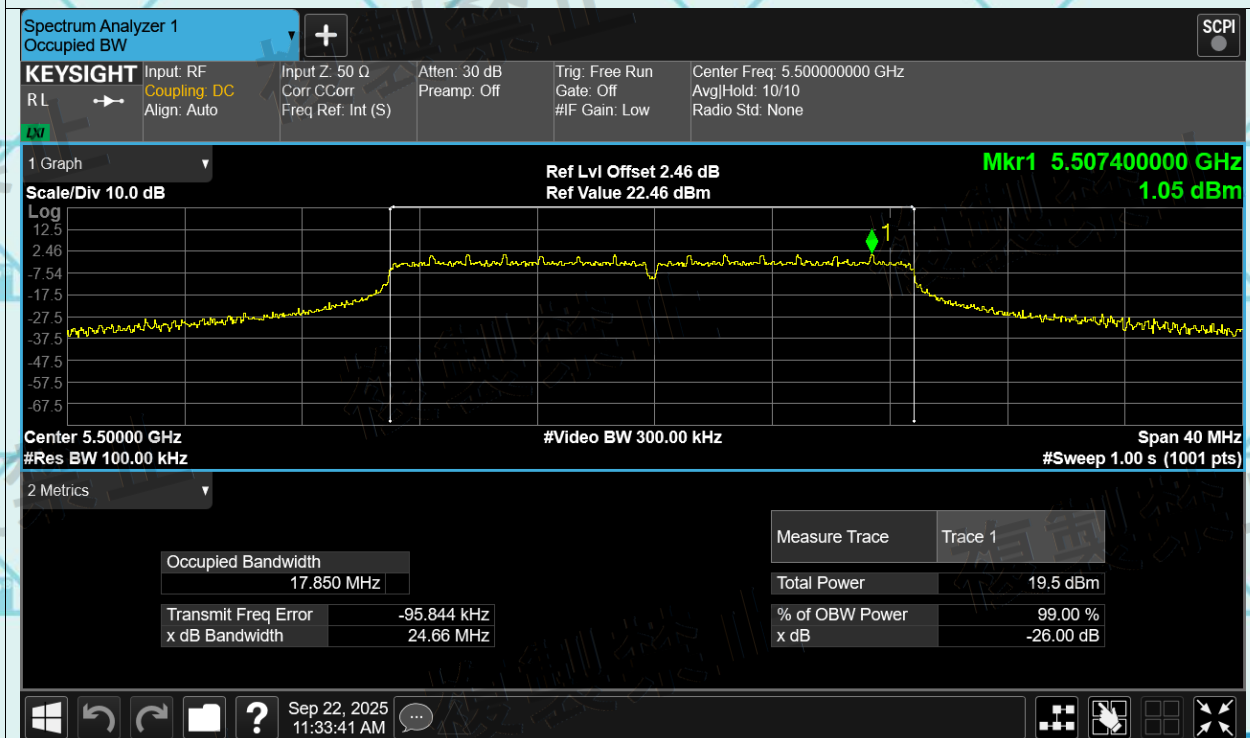


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT n20 5320MHz

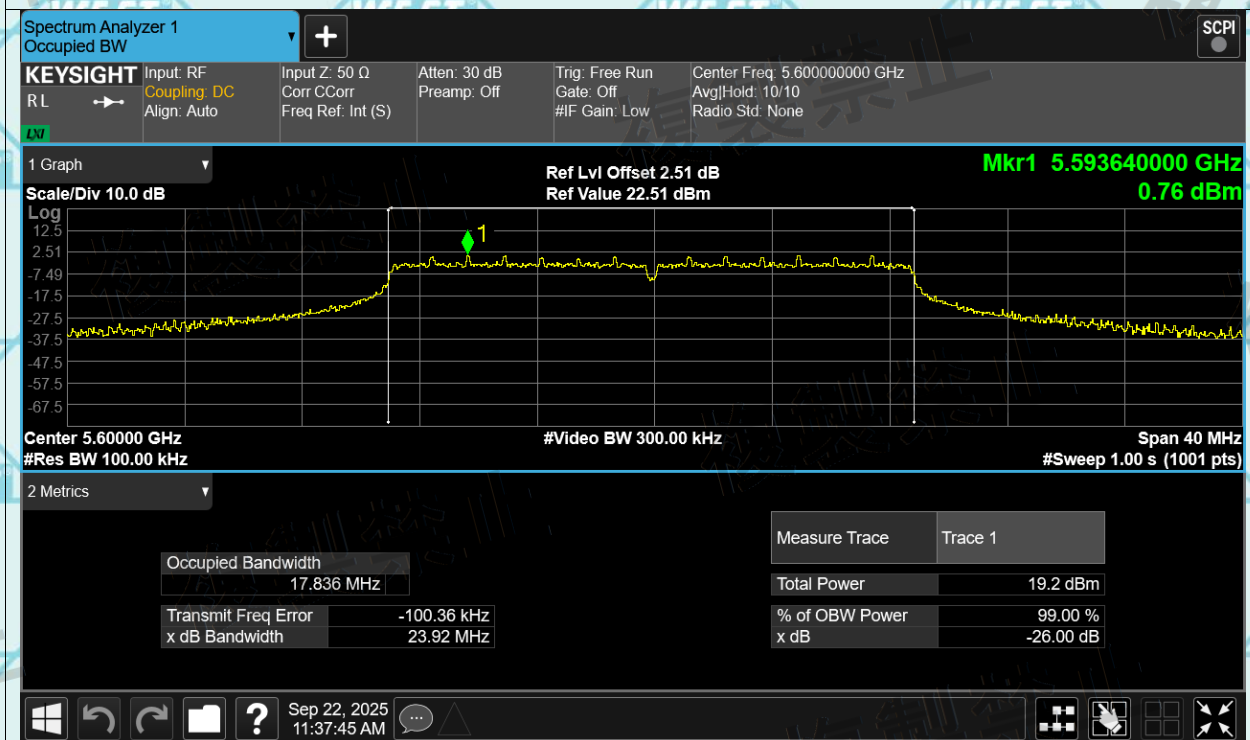


OBW NVNT n20 5500MHz



Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT n20 5600MHz

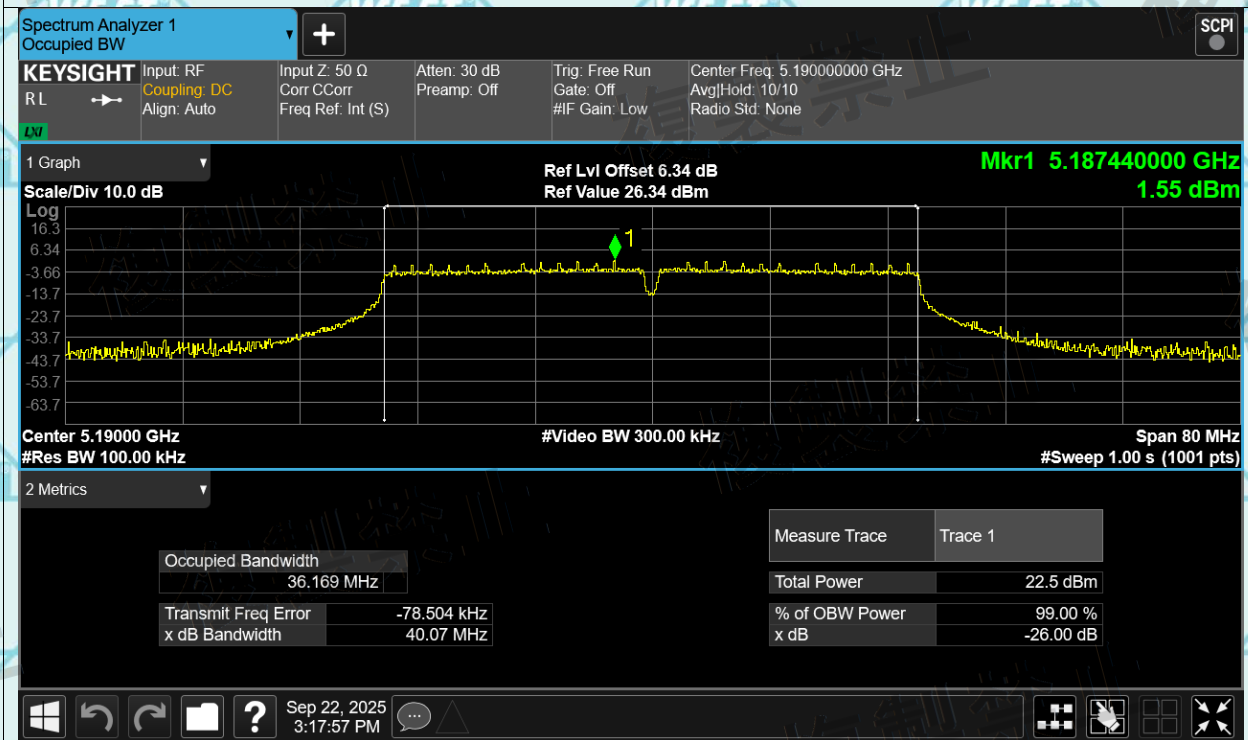


OBW NVNT n20 5720MHz

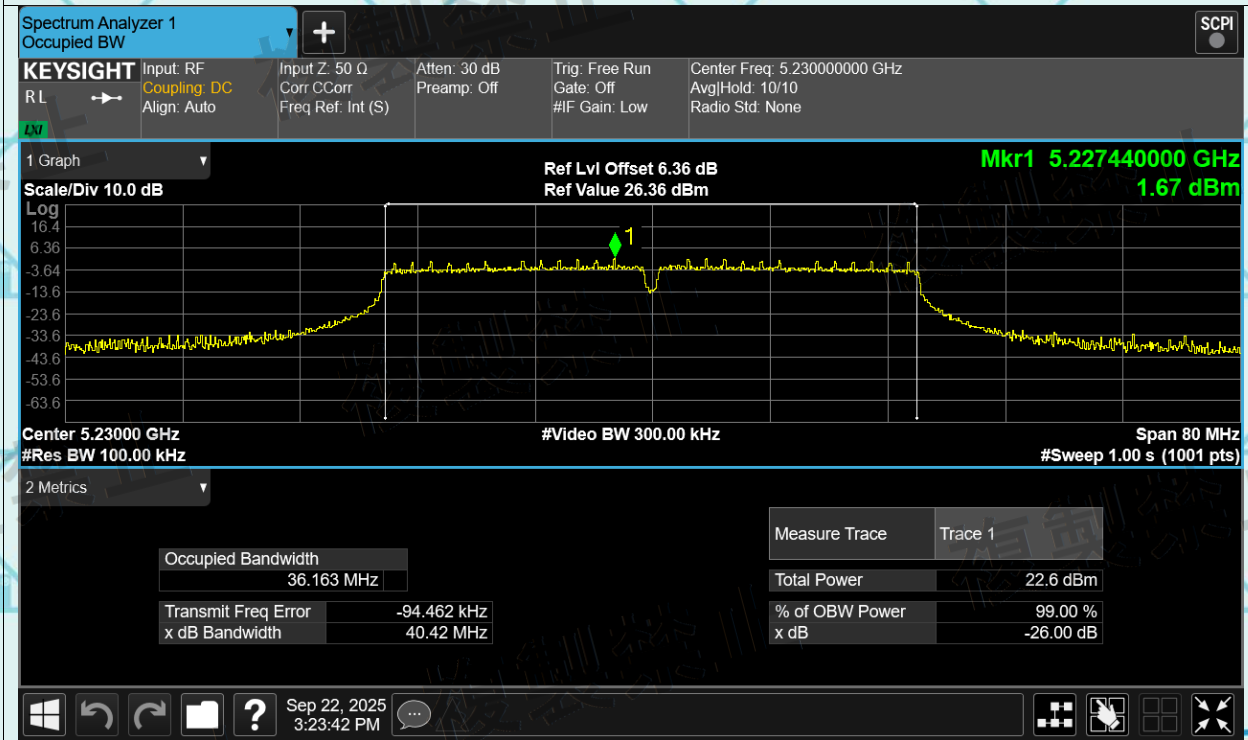


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT n40 5190MHz

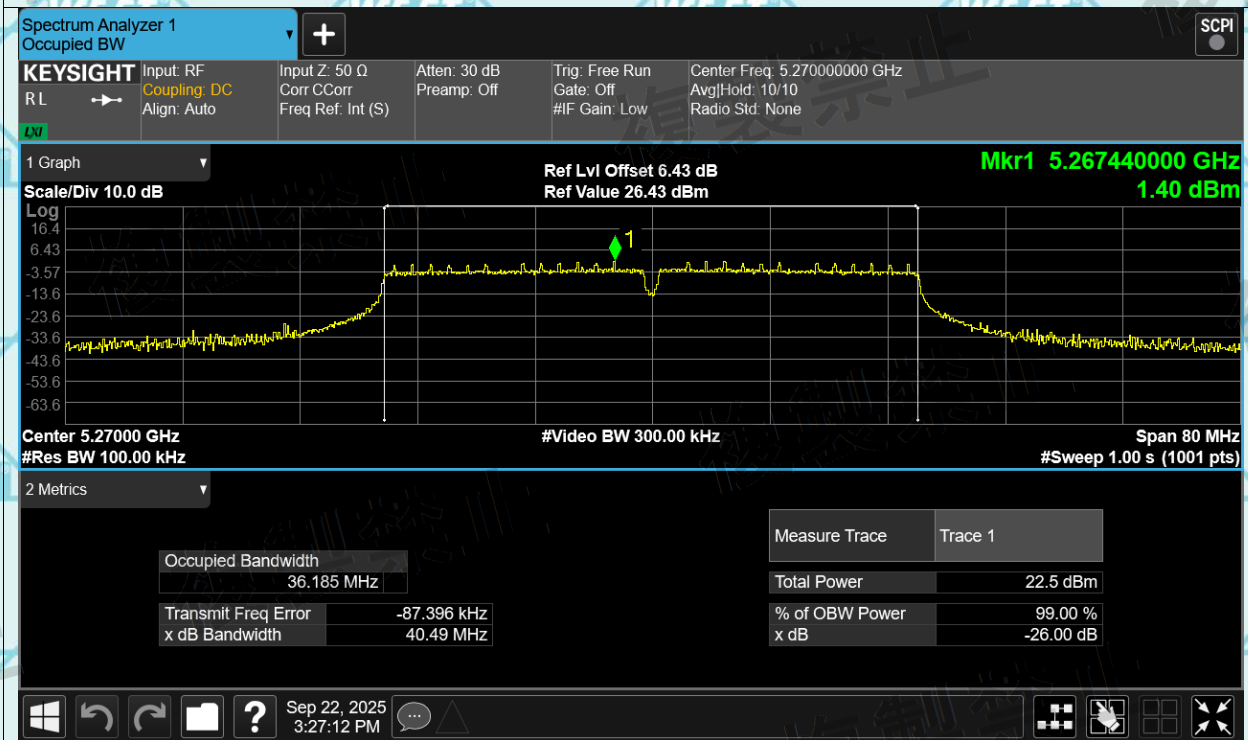


OBW NVNT n40 5230MHz

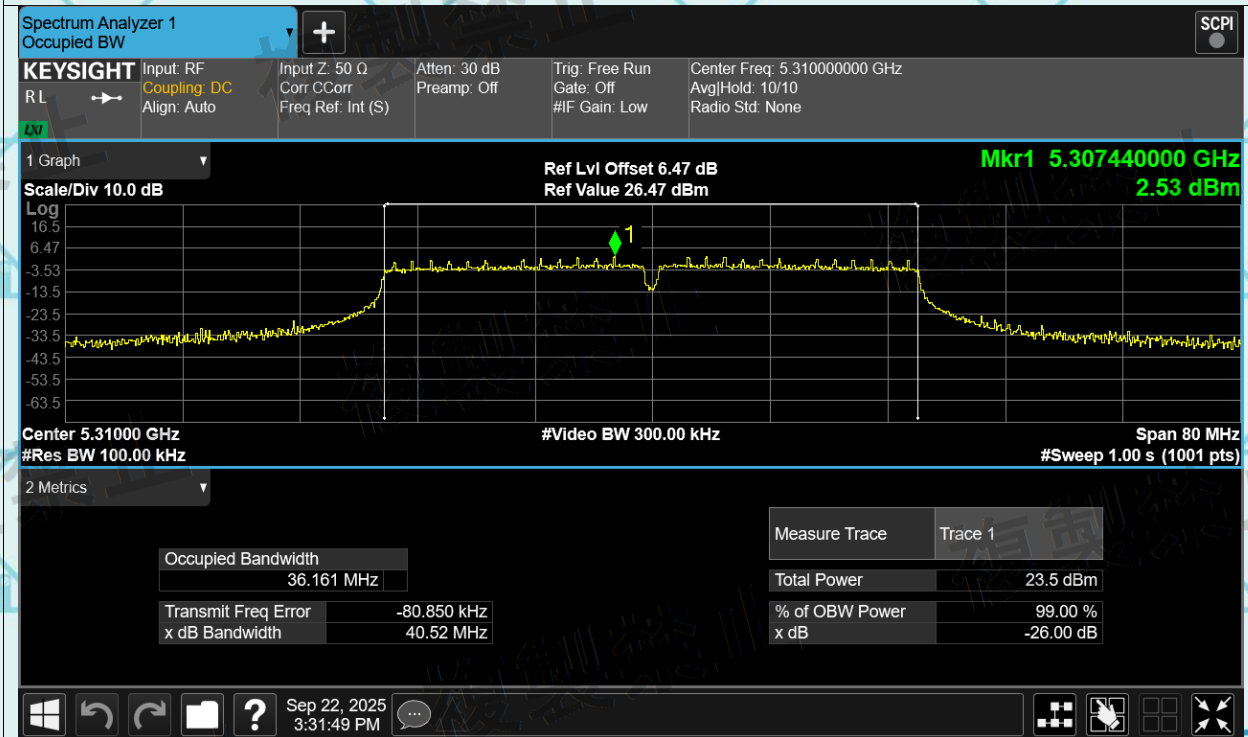


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT n40 5270MHz

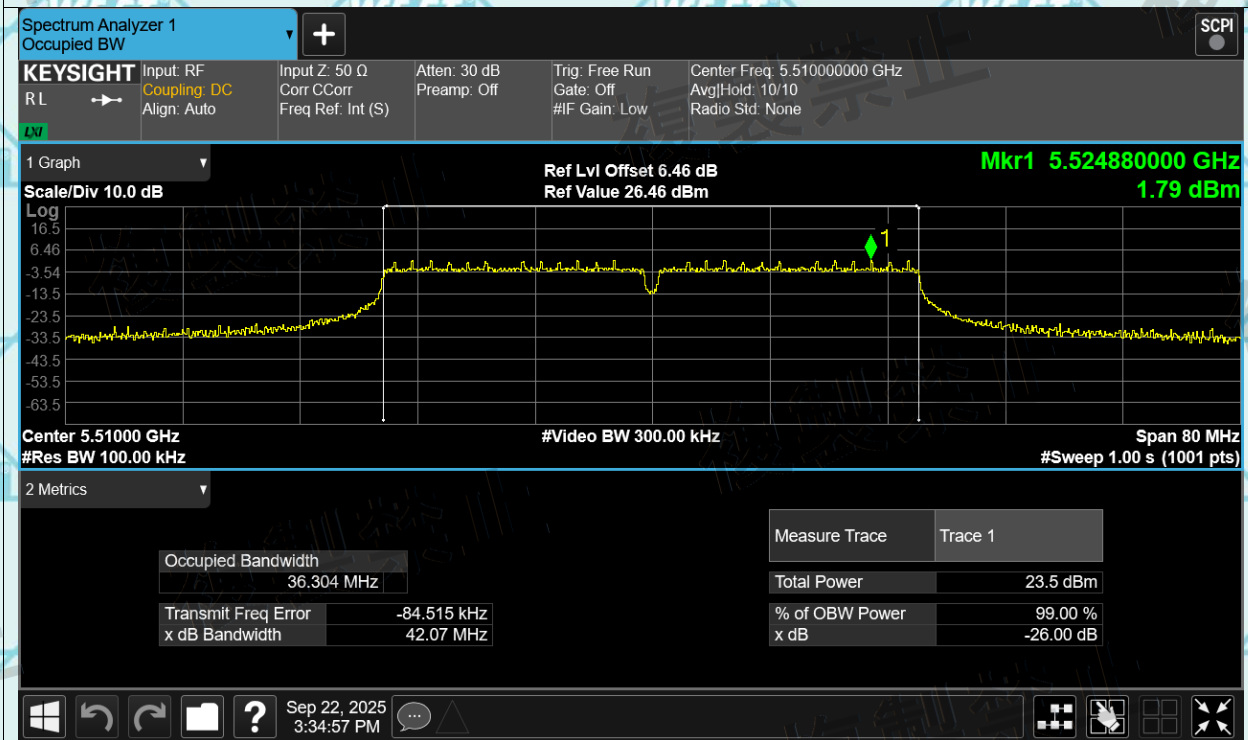


OBW NVNT n40 5310MHz

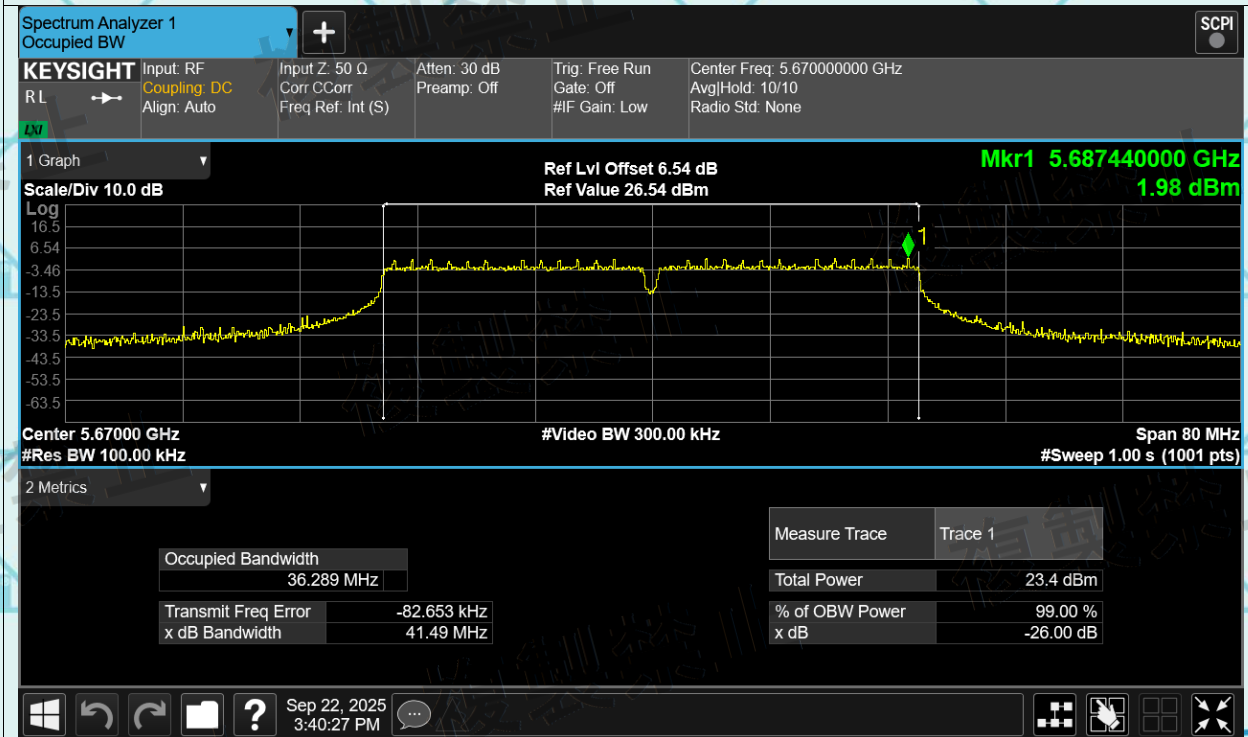


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT n40 5510MHz

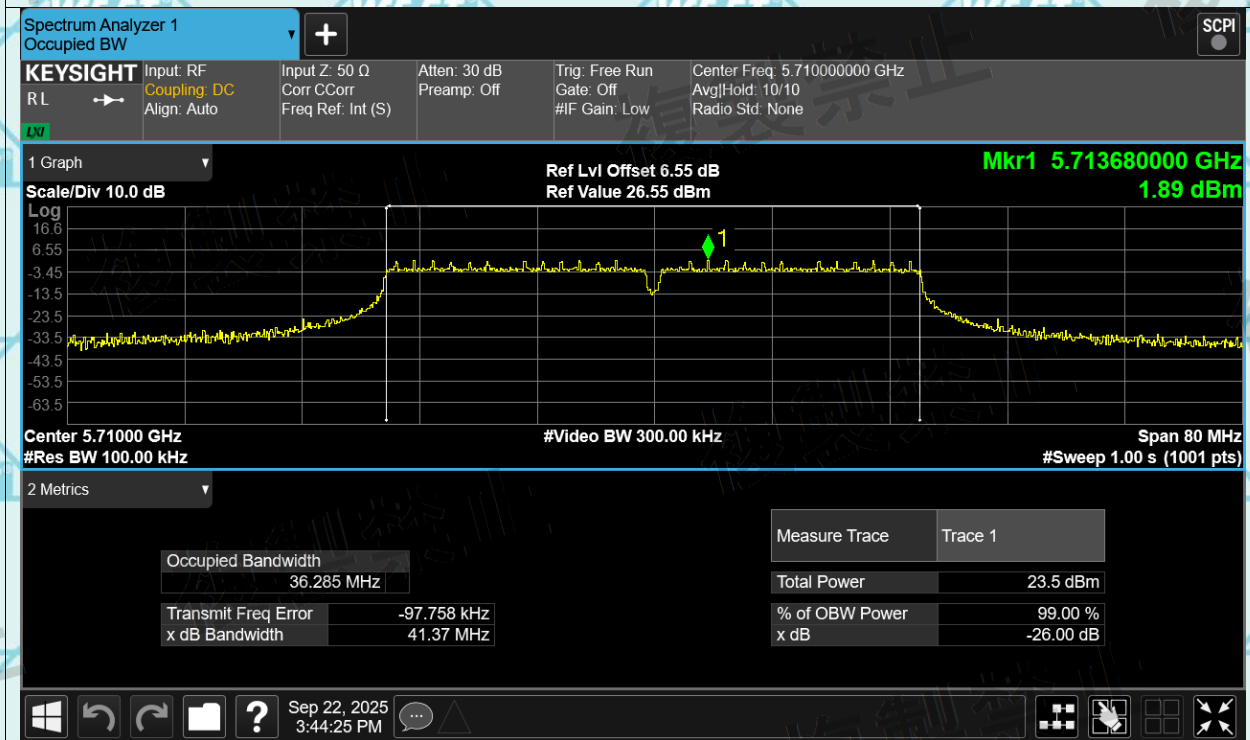


OBW NVNT n40 5670MHz

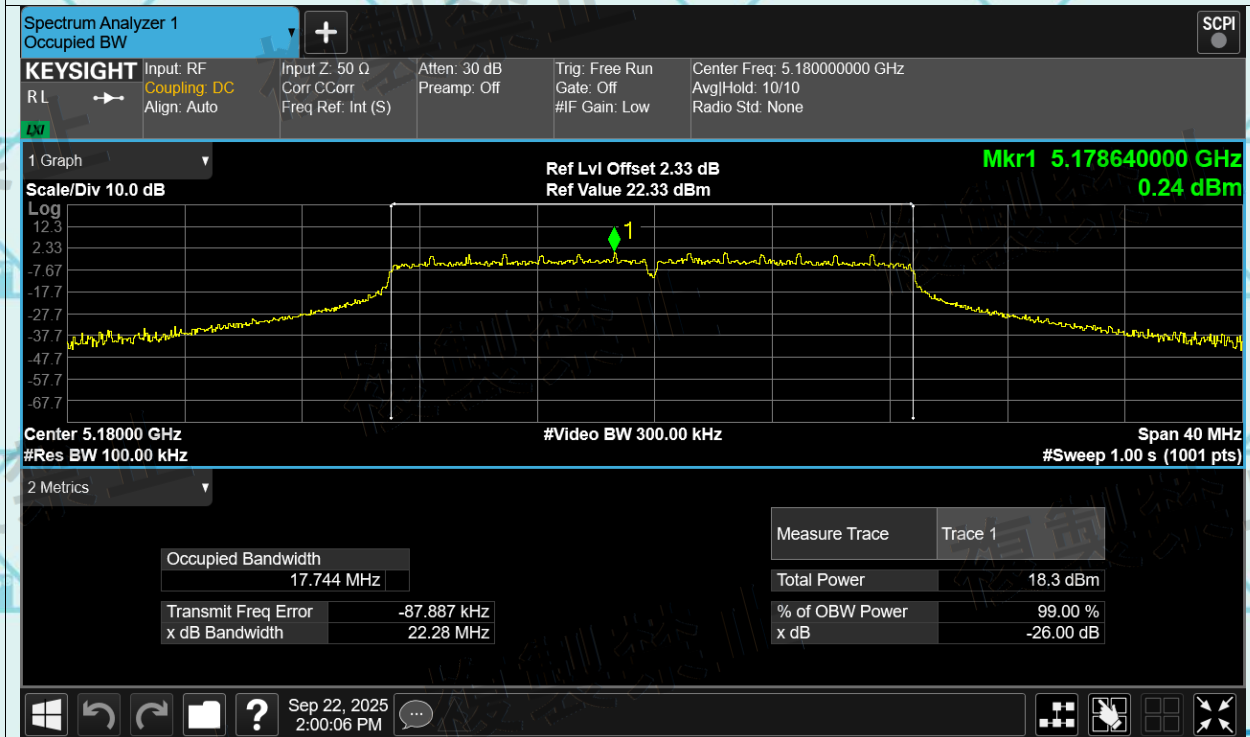


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT n40 5710MHz

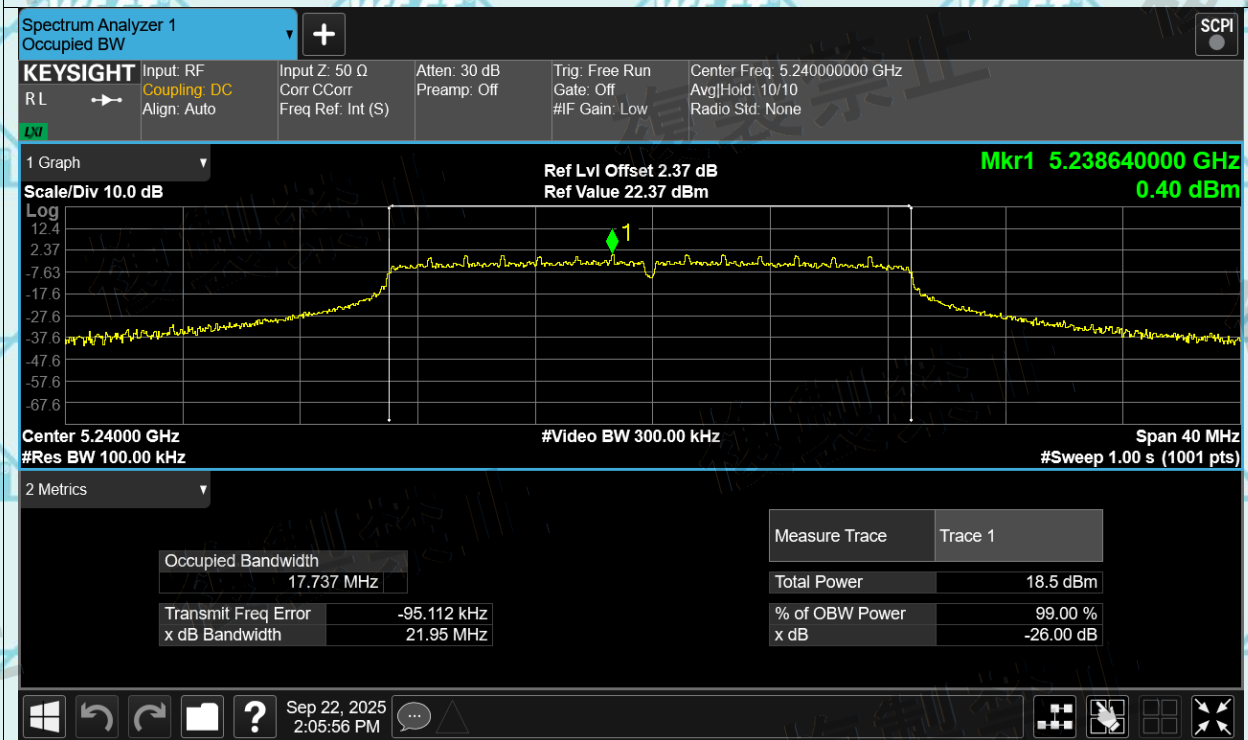


OBW NVNT ac20 5180MHz

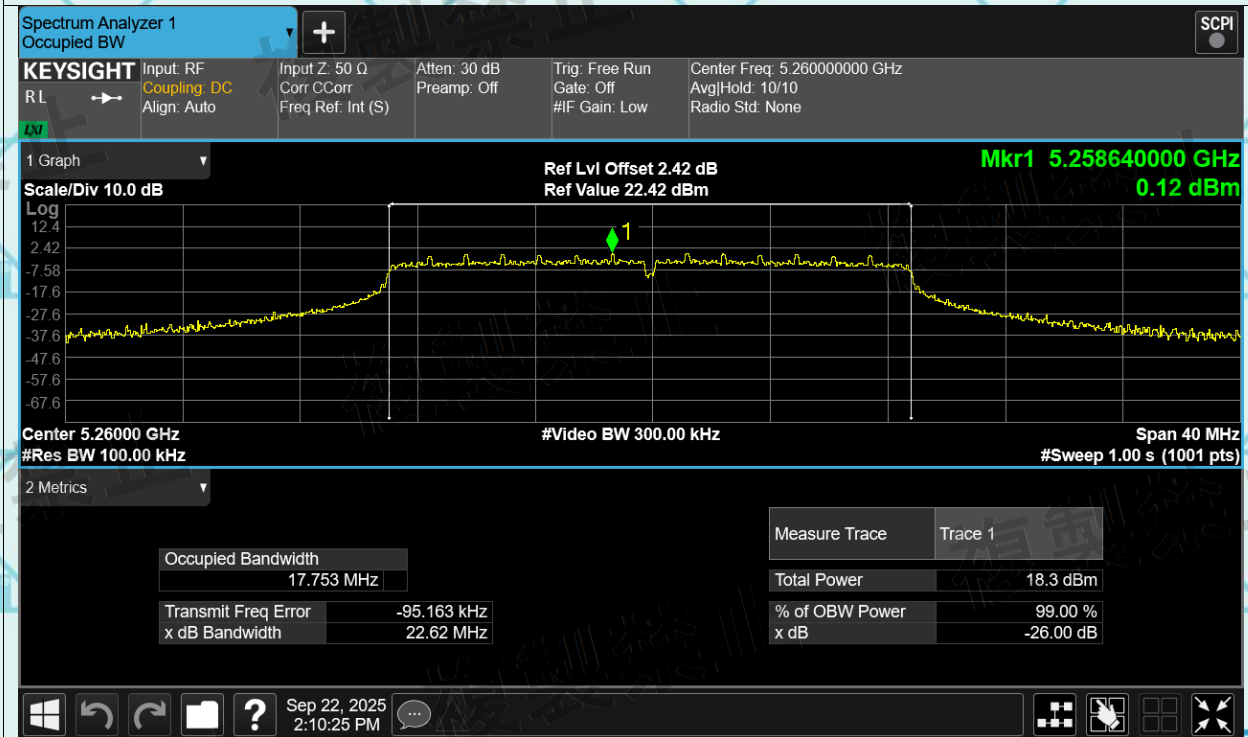


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ac20 5240MHz

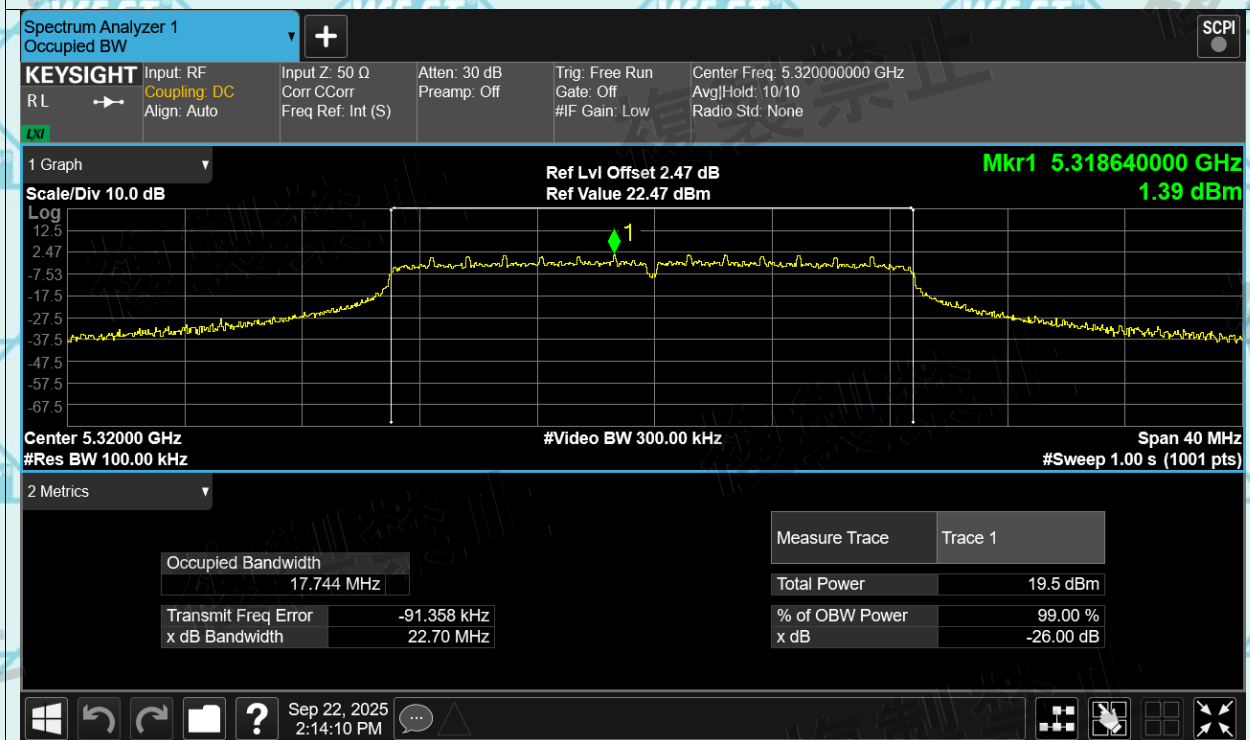


OBW NVNT ac20 5260MHz

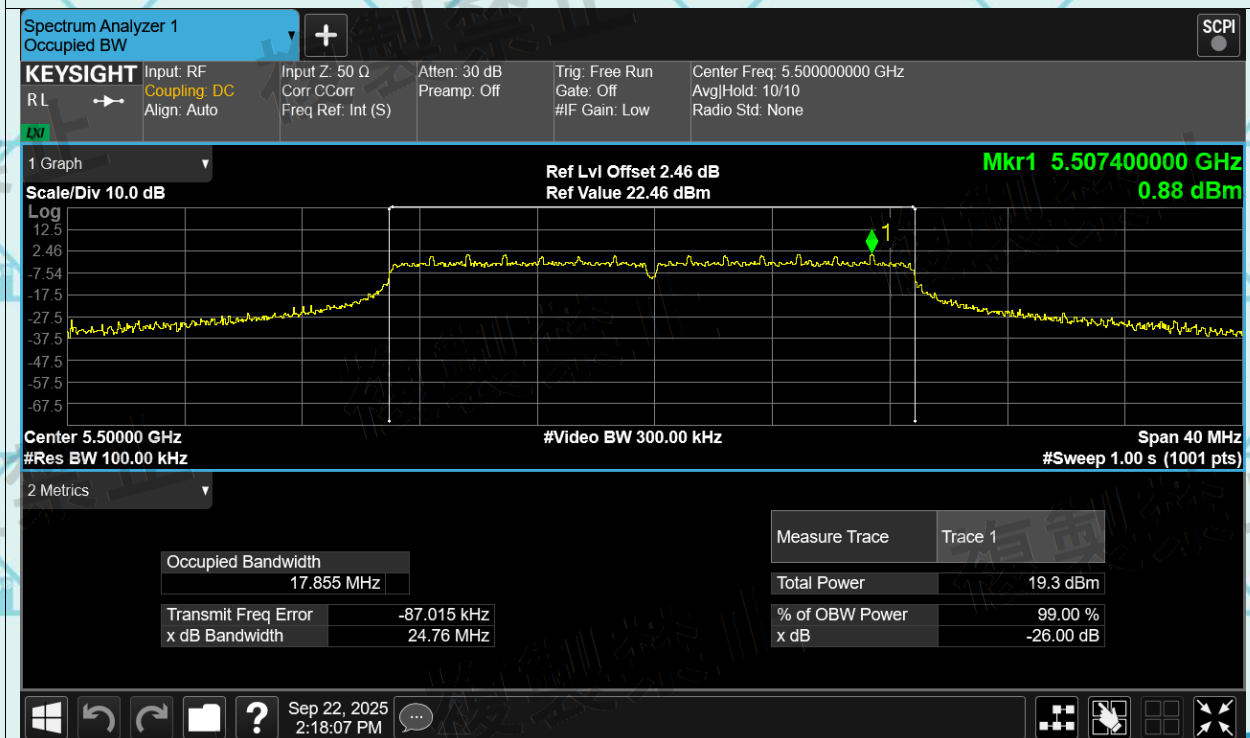


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ac20 5320MHz

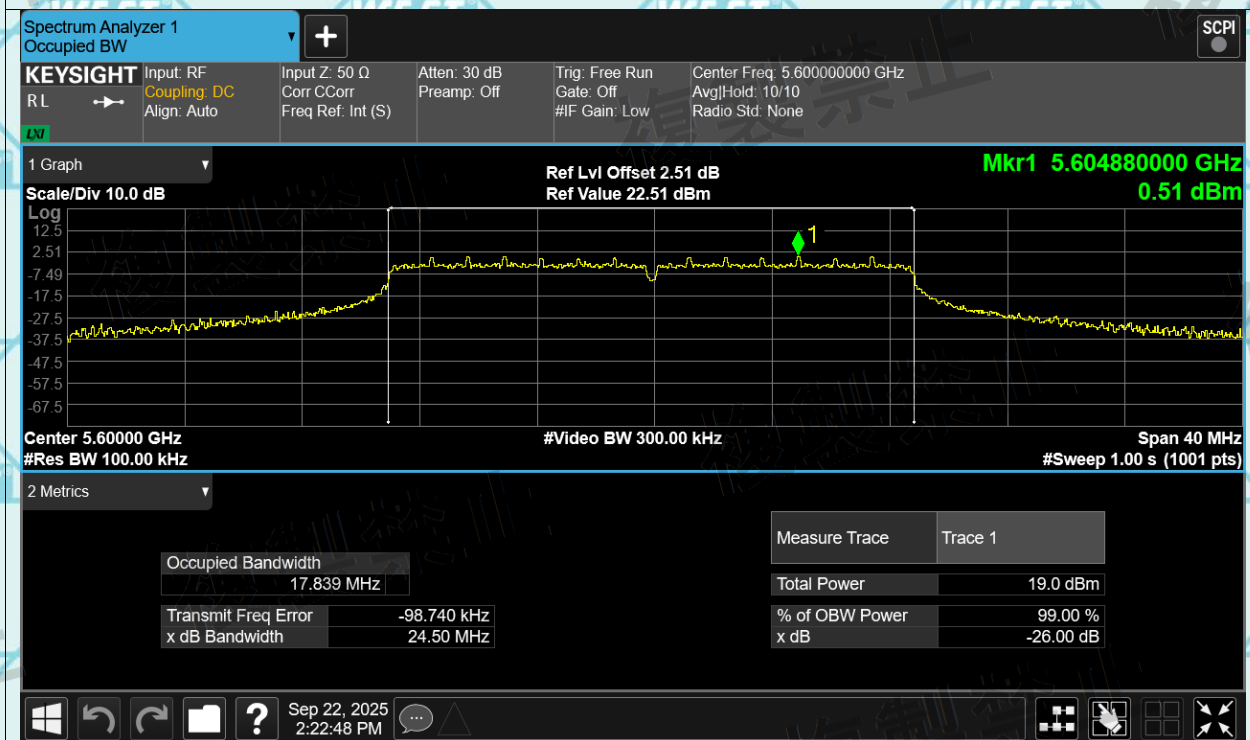


OBW NVNT ac20 5500MHz

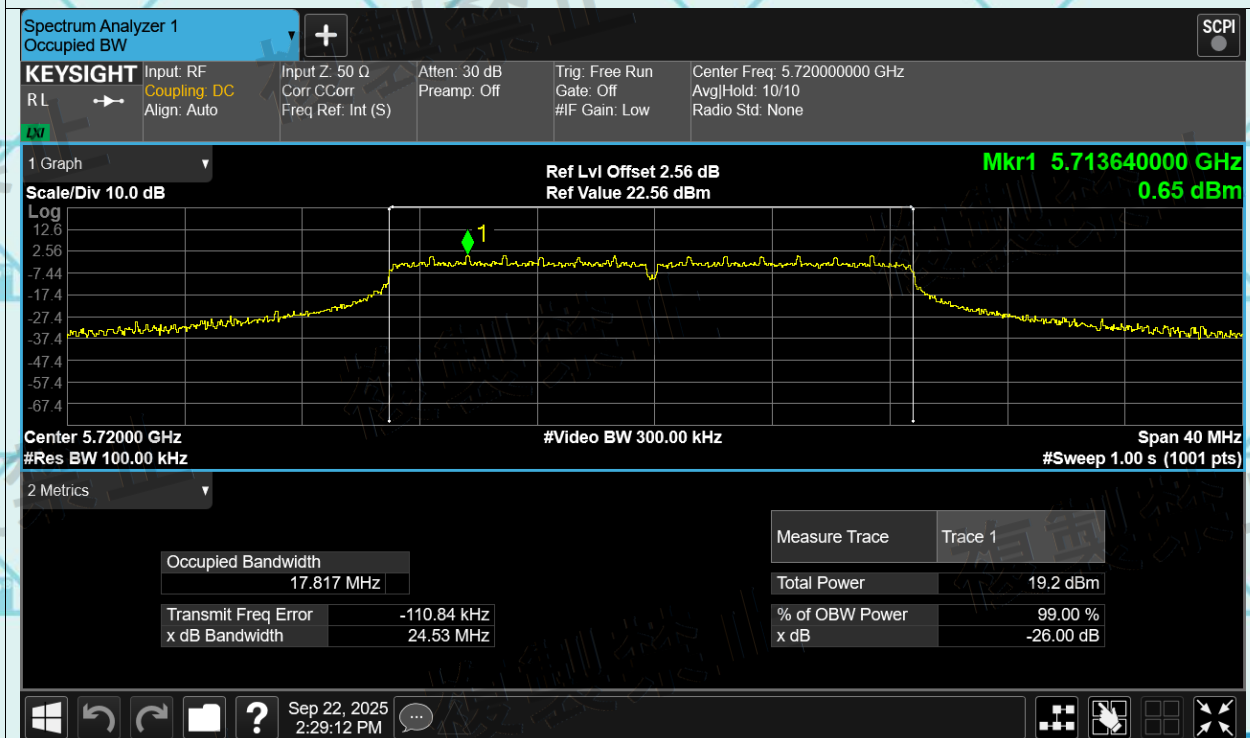


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ac20 5600MHz

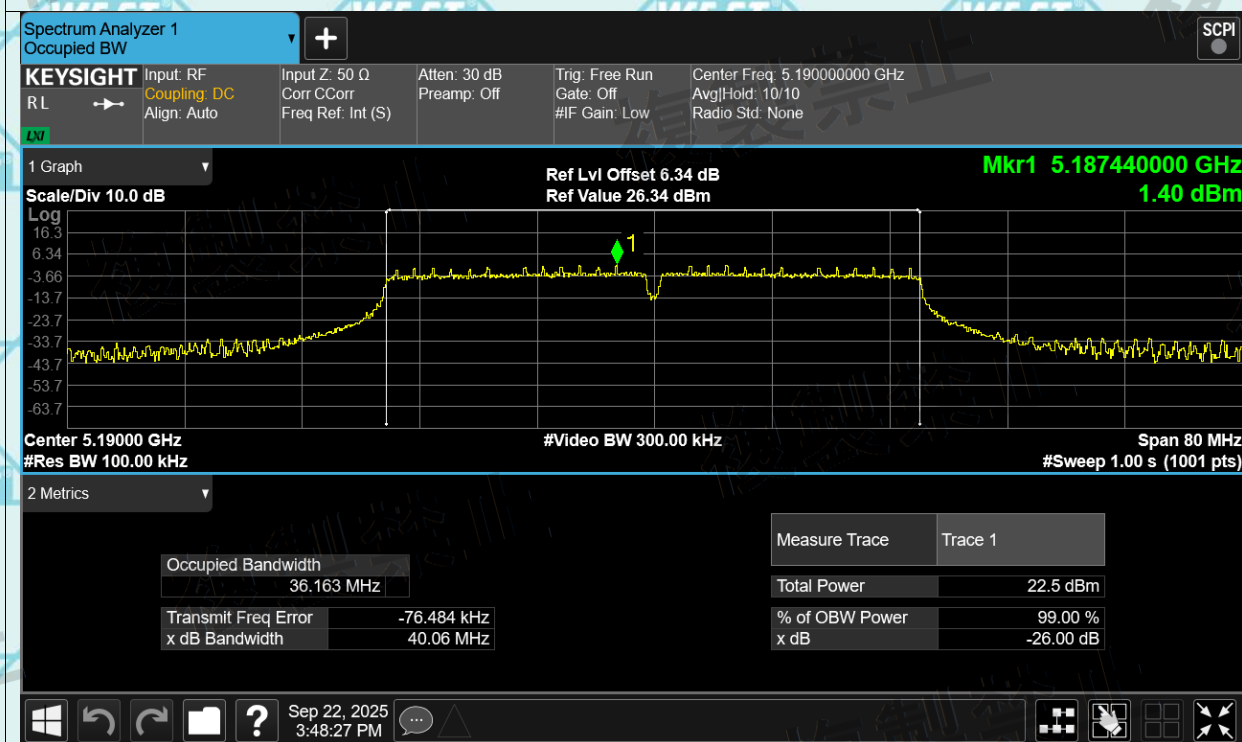


OBW NVNT ac20 5720MHz



Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ac40 5190MHz

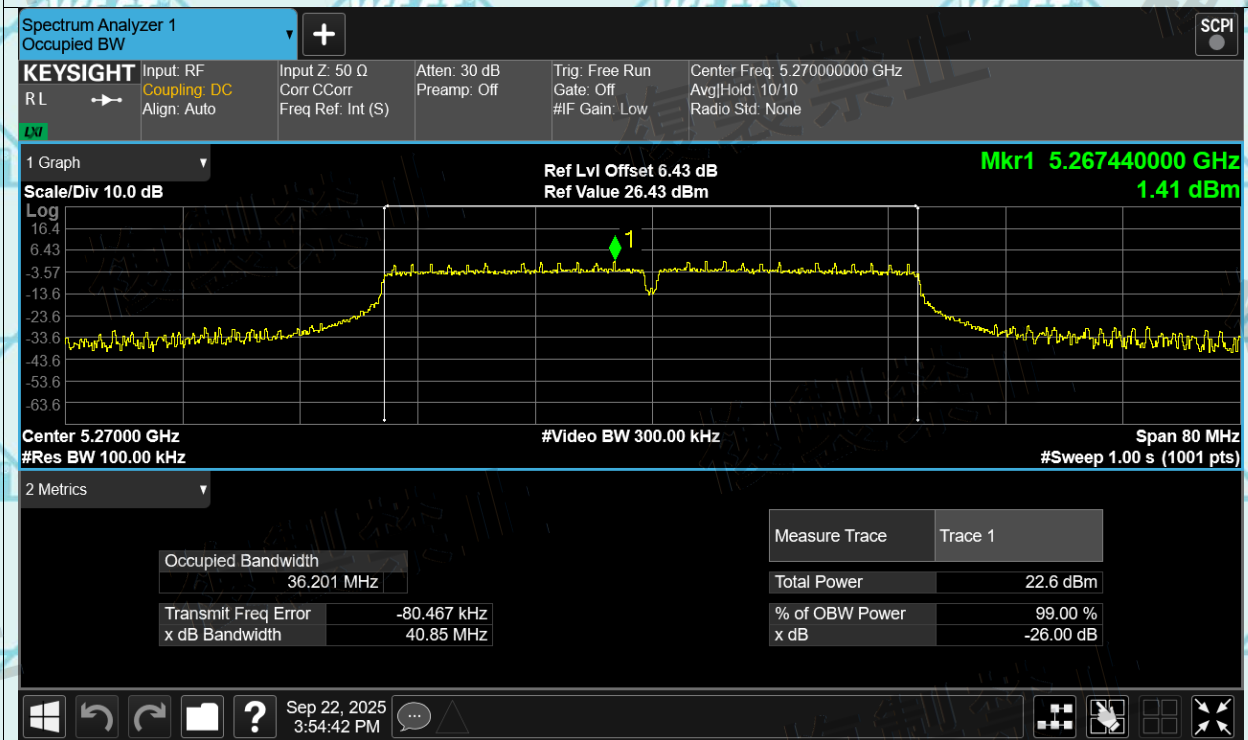


OBW NVNT ac40 5230MHz

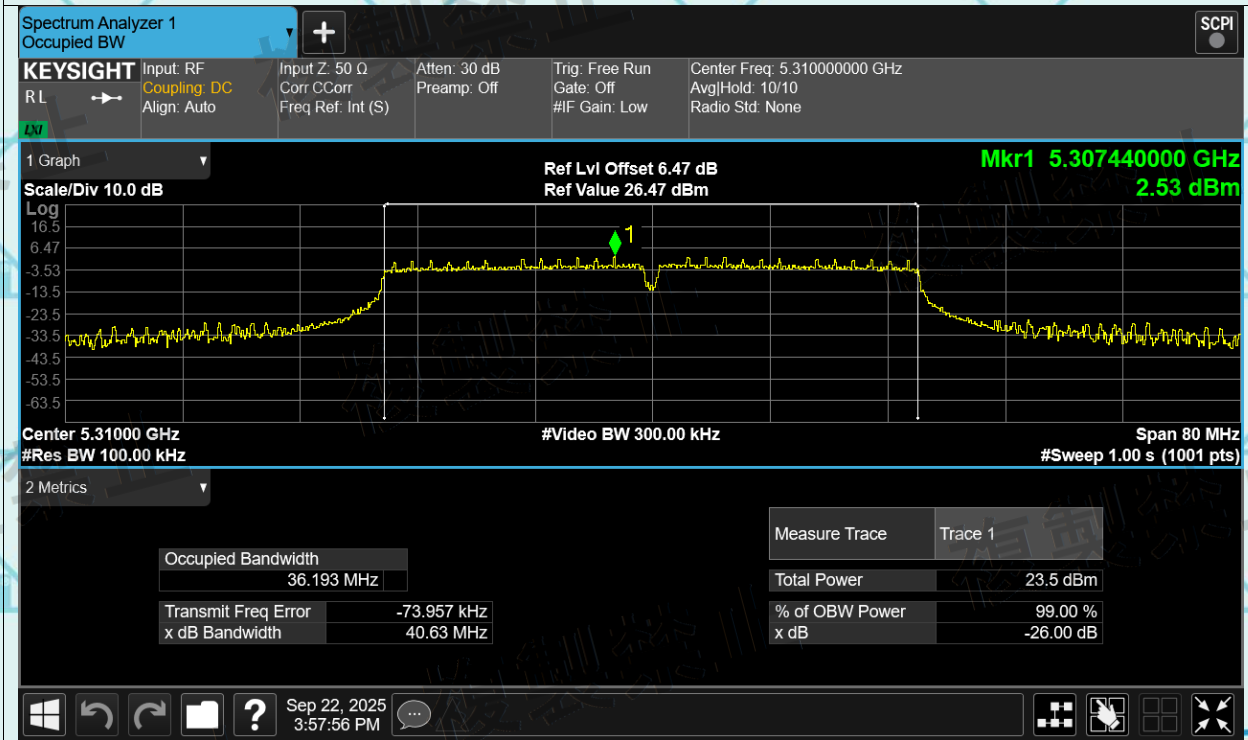


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ac40 5270MHz

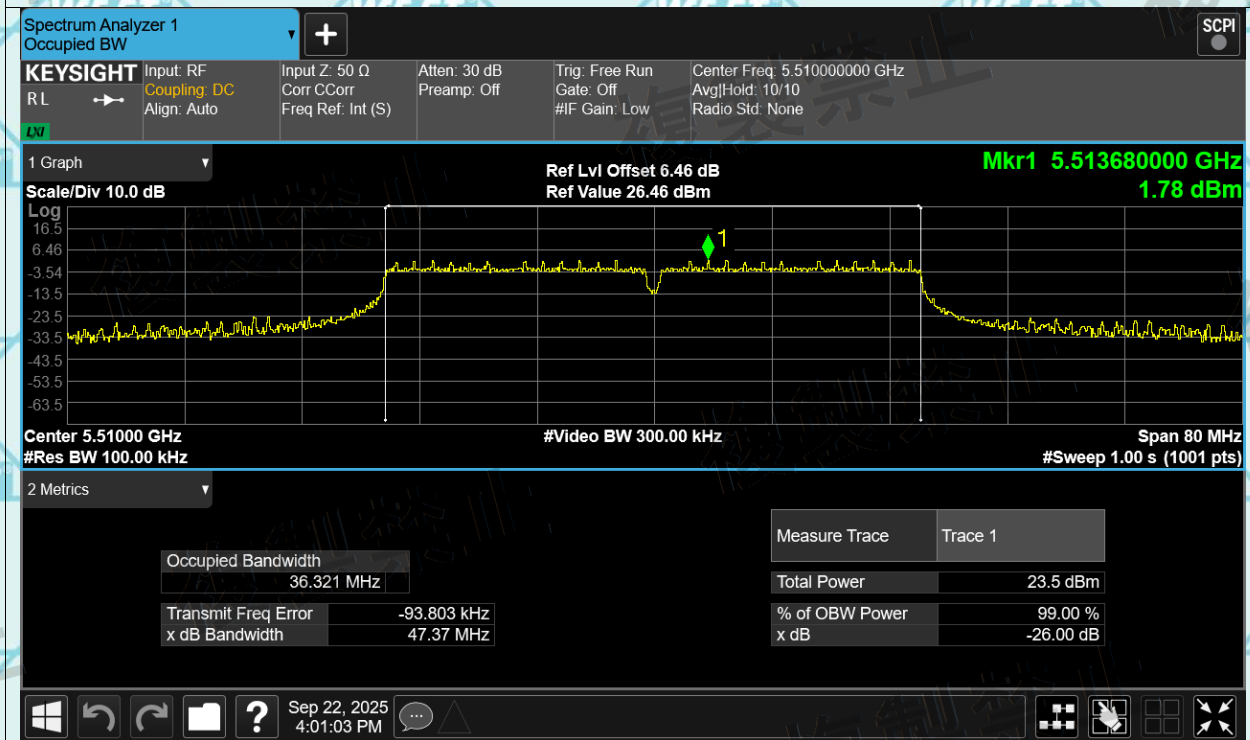


OBW NVNT ac40 5310MHz

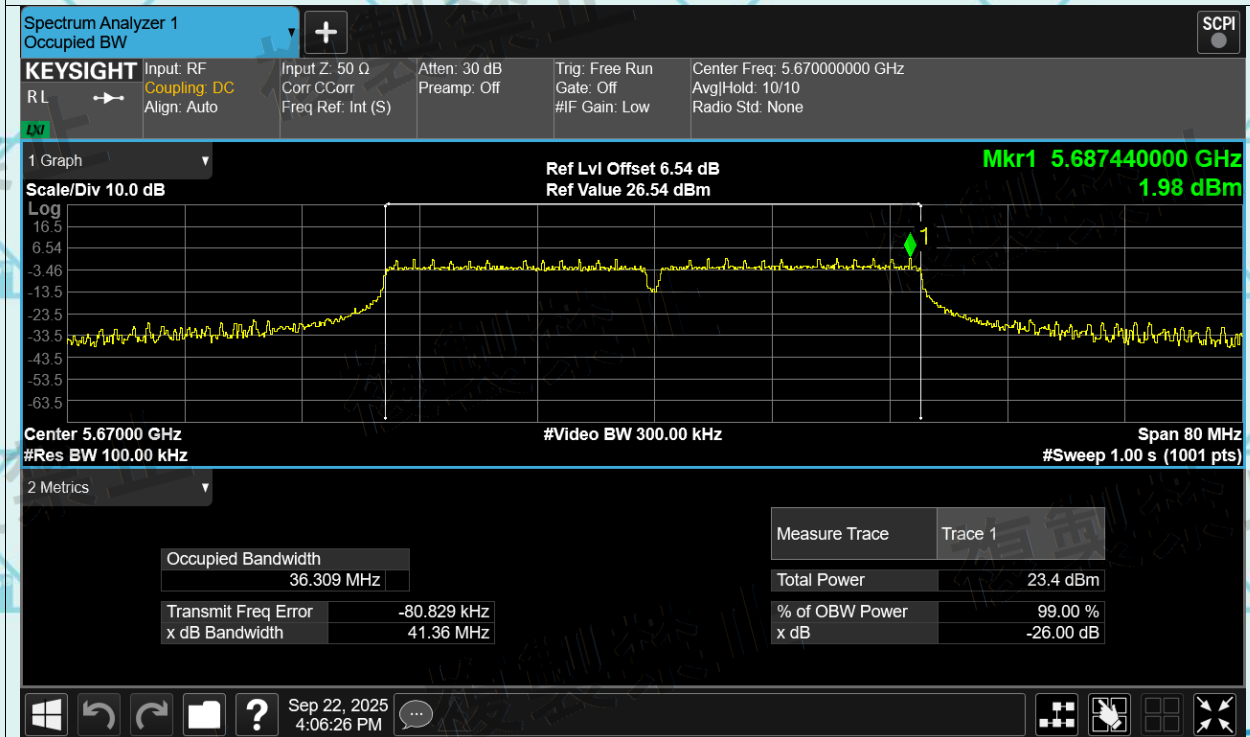


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ac40 5510MHz

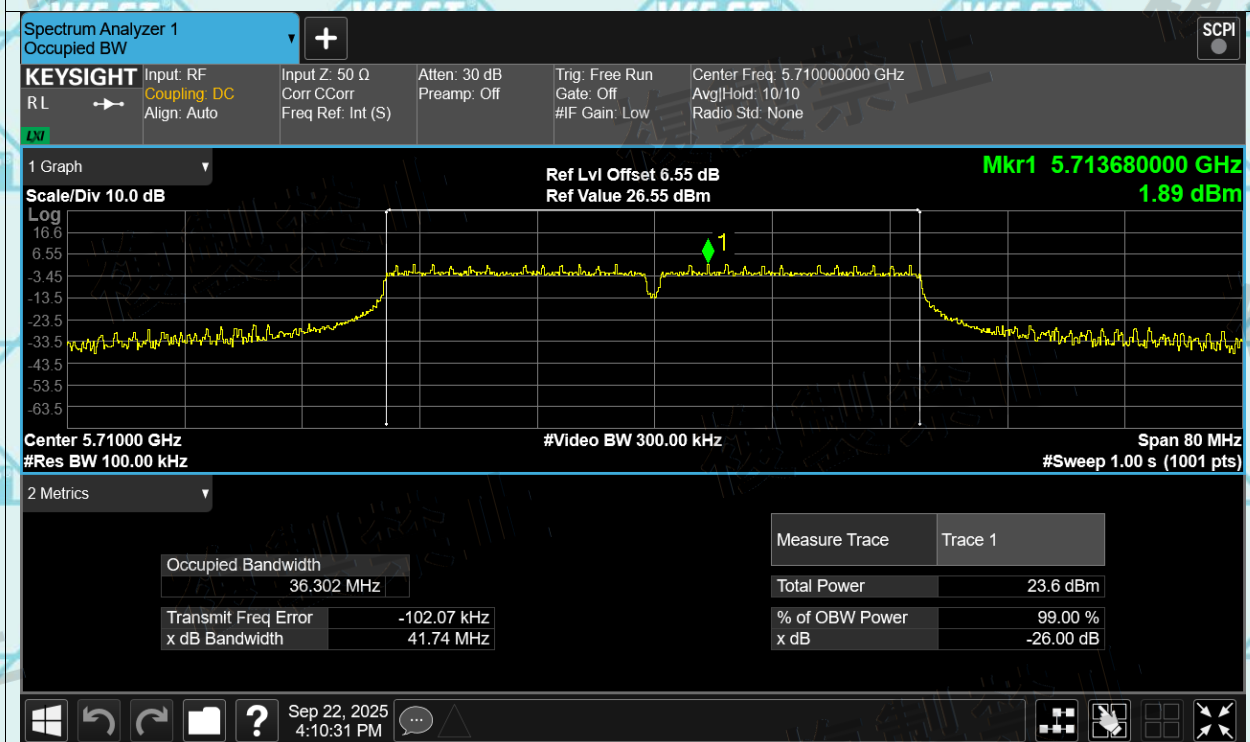


OBW NVNT ac40 5670MHz



Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ac40 5710MHz

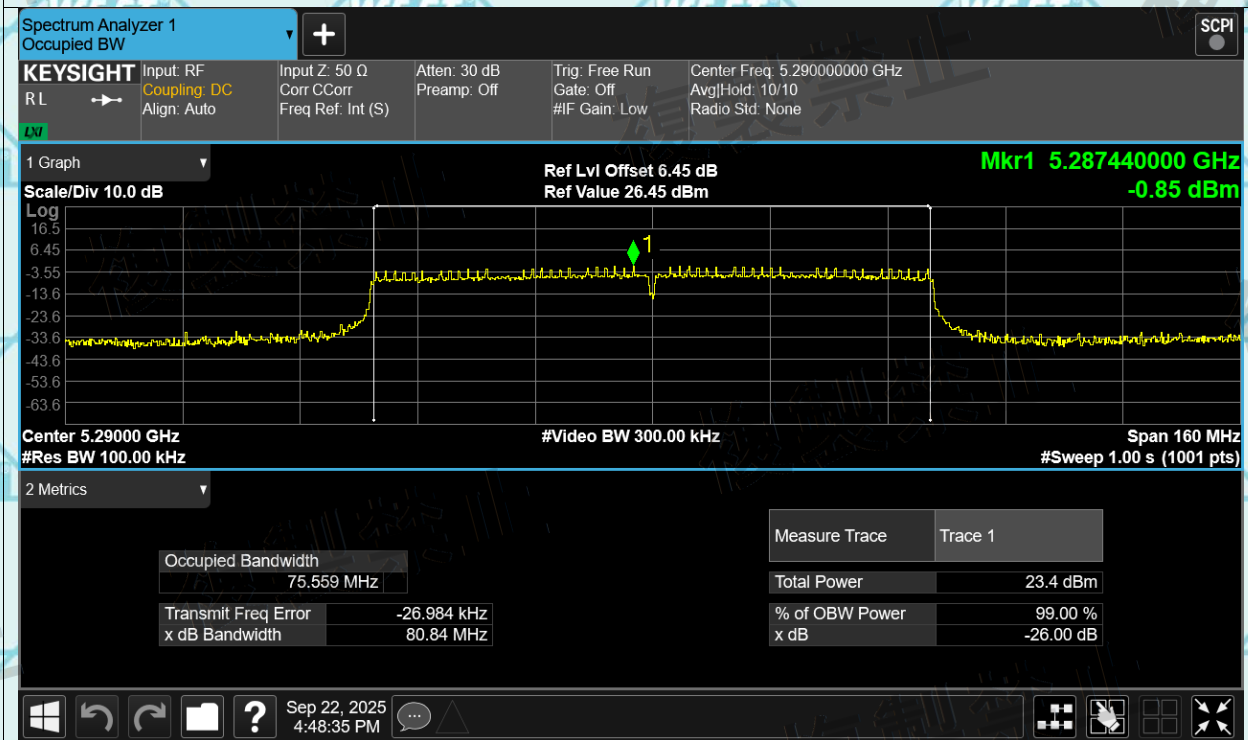


OBW NVNT ac80 5210MHz

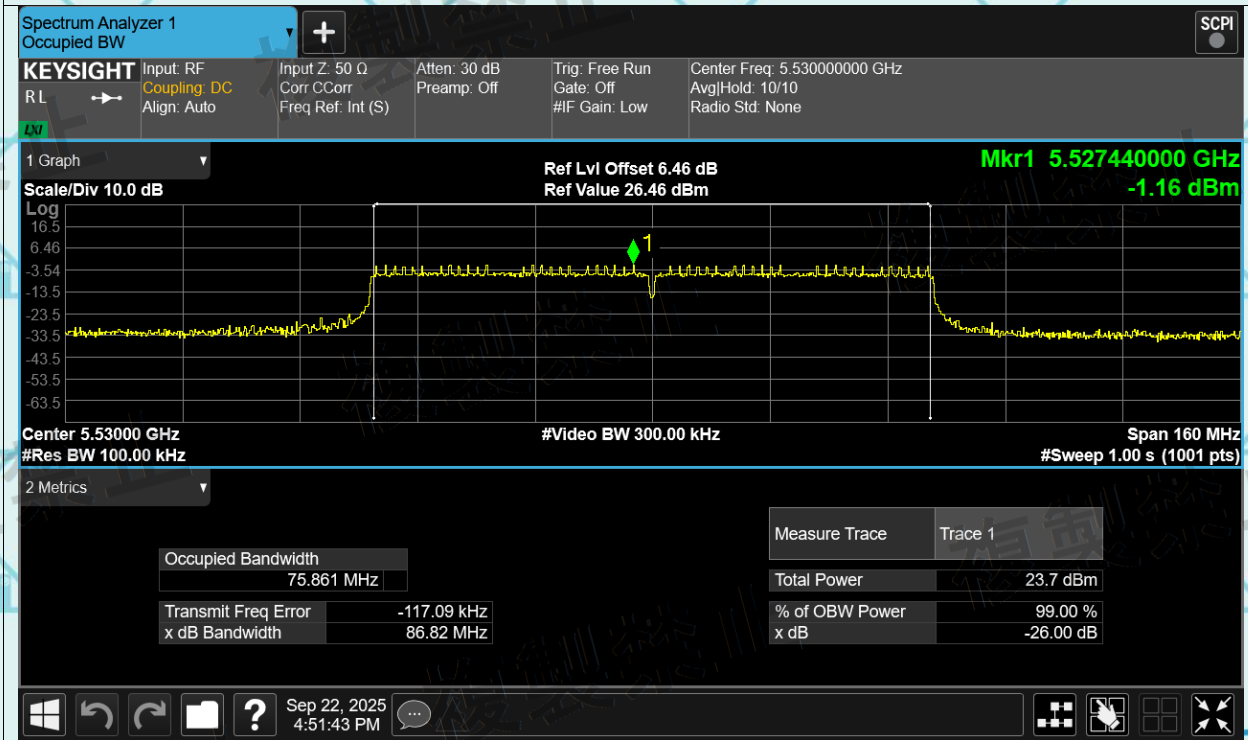


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ac80 5290MHz

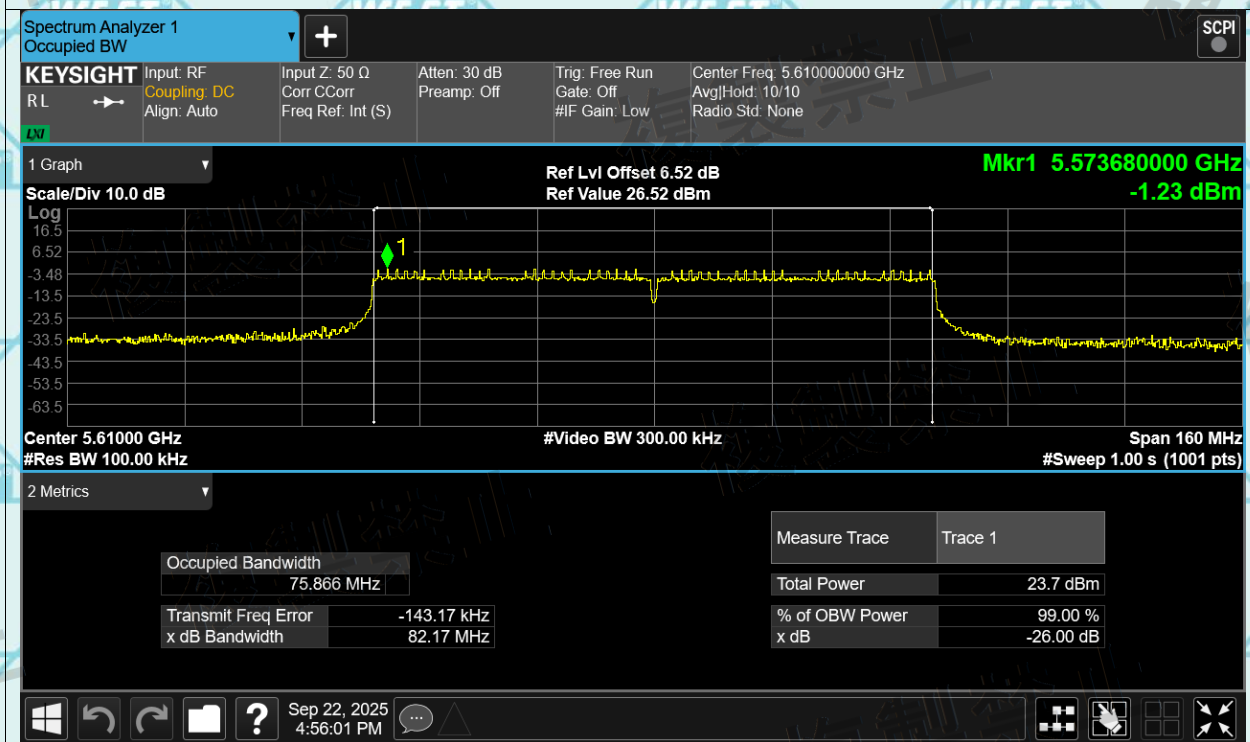


OBW NVNT ac80 5530MHz



Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ac80 5610MHz

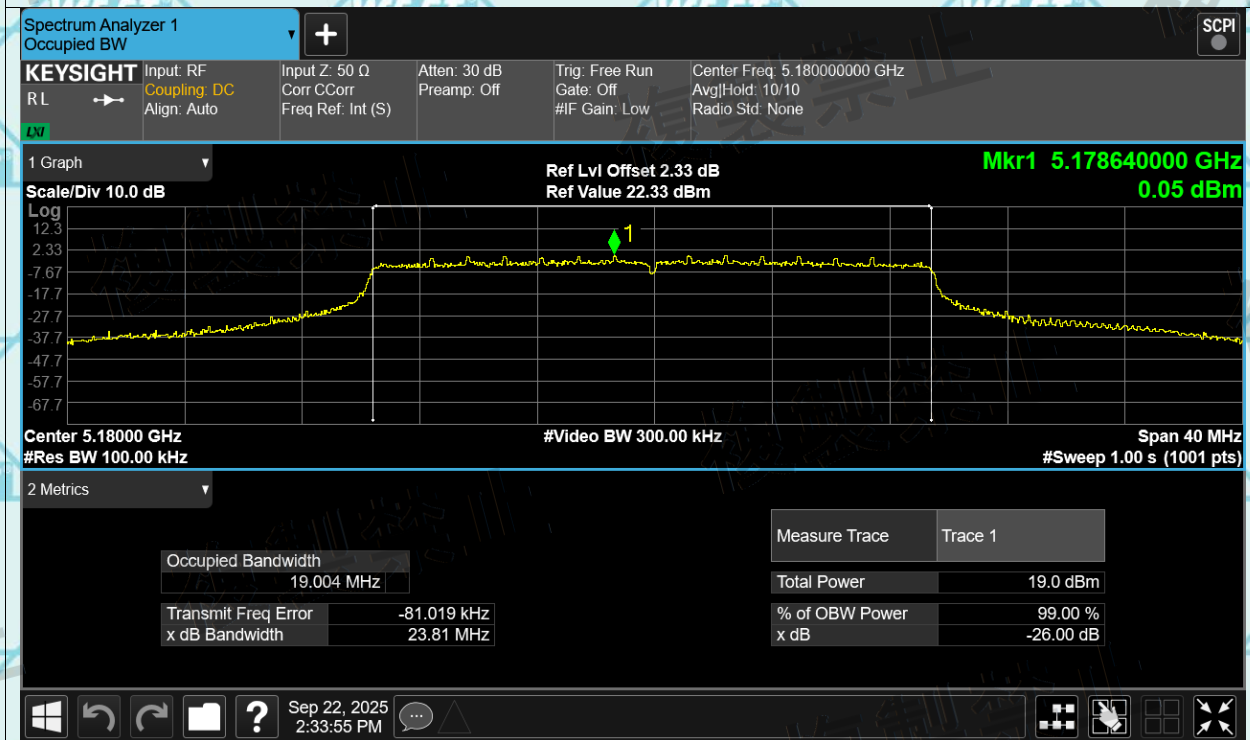


OBW NVNT ac80 5690MHz

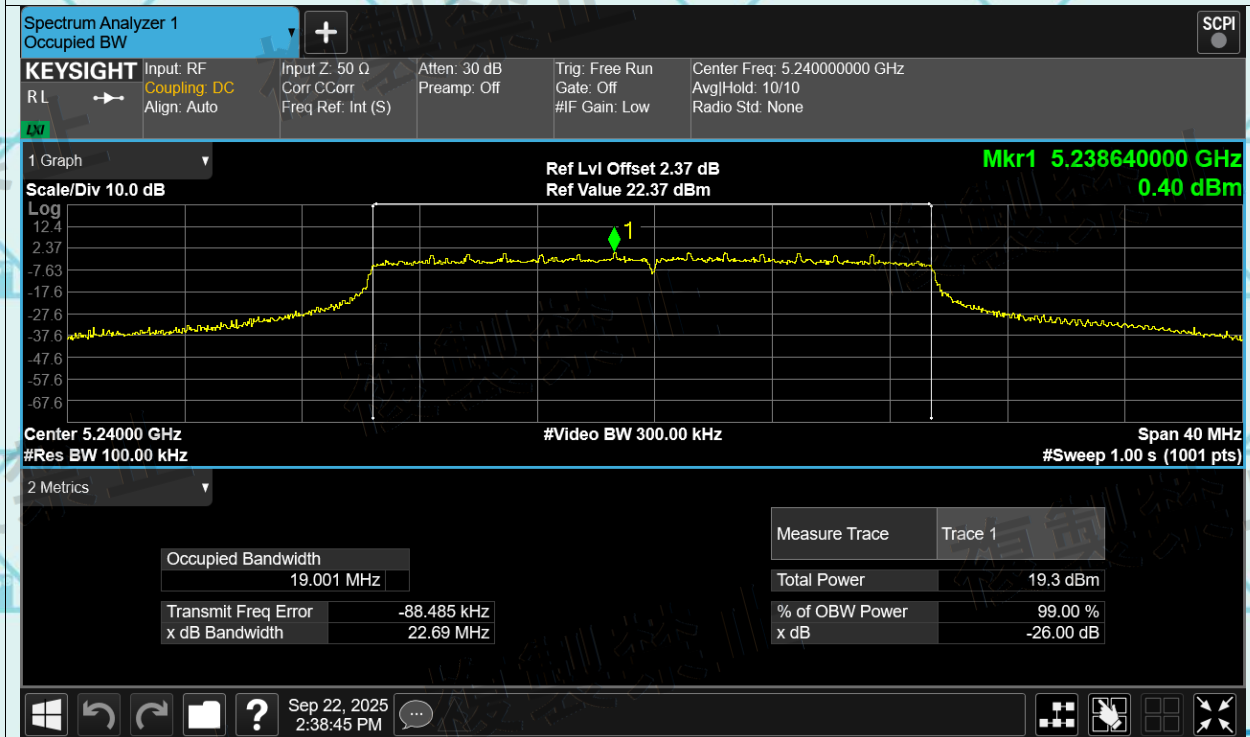


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ax20 5180MHz

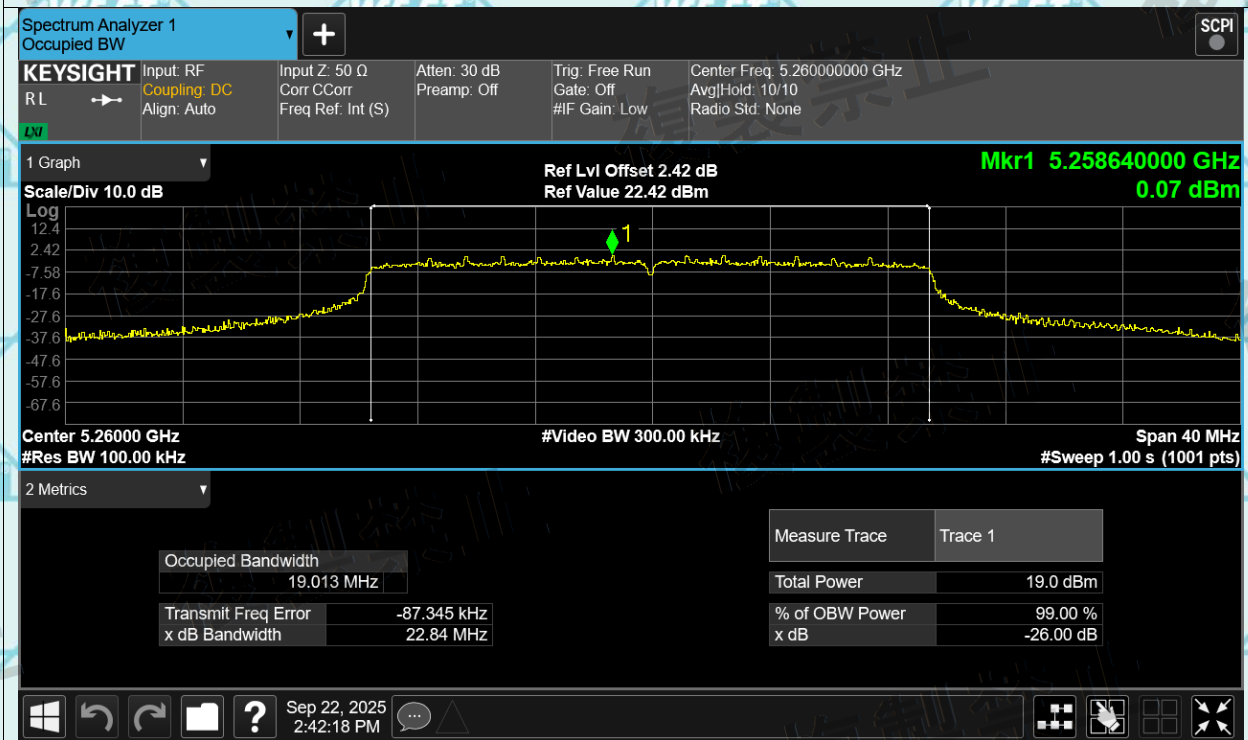


OBW NVNT ax20 5240MHz

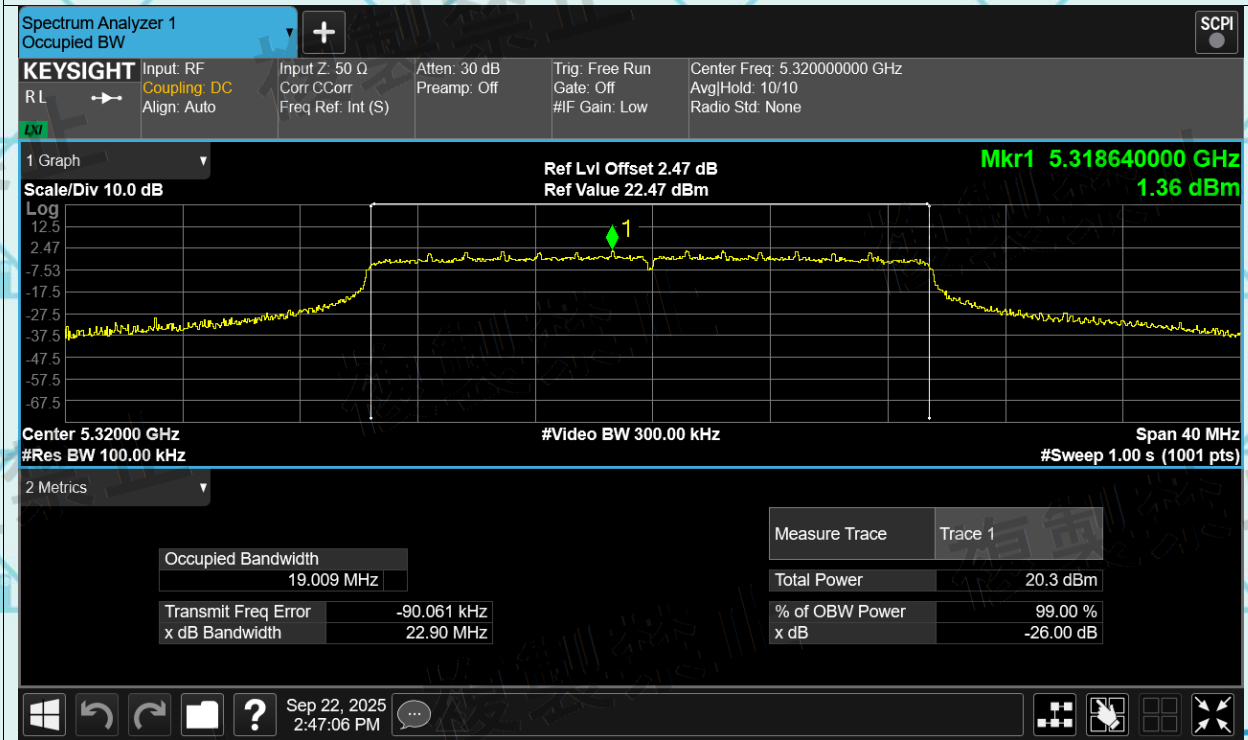


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ax20 5260MHz

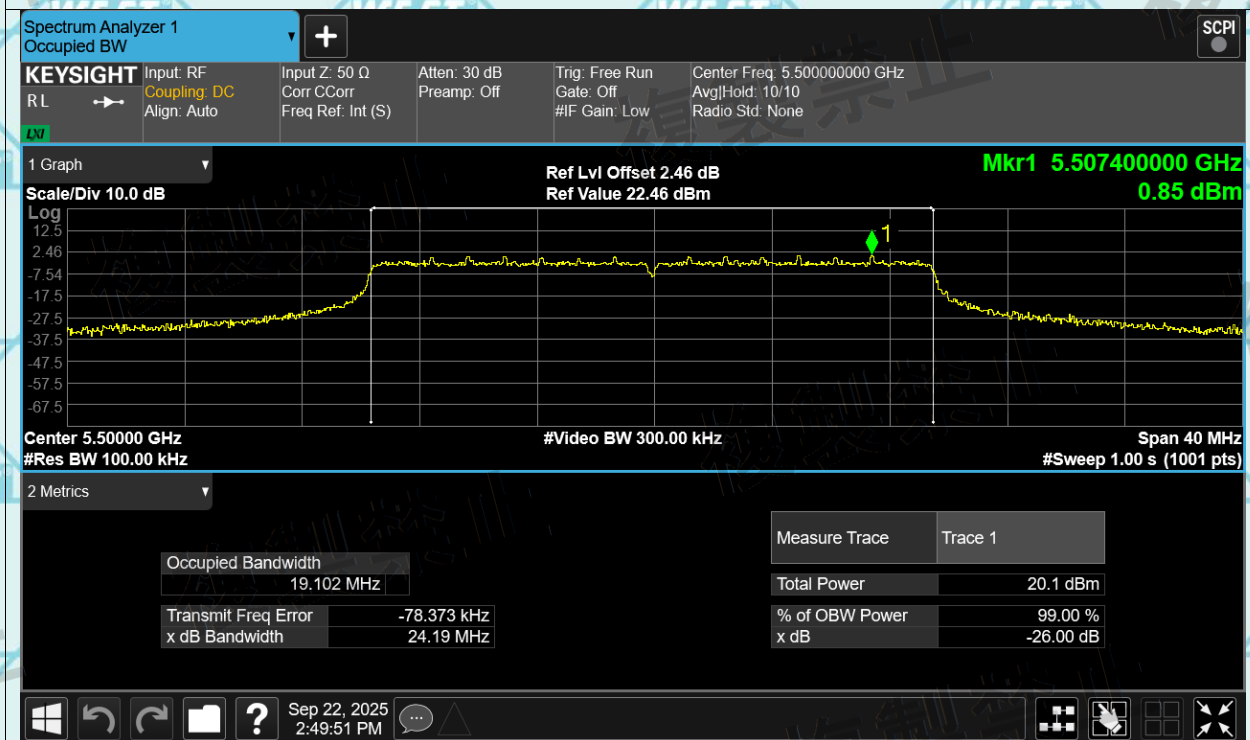


OBW NVNT ax20 5320MHz

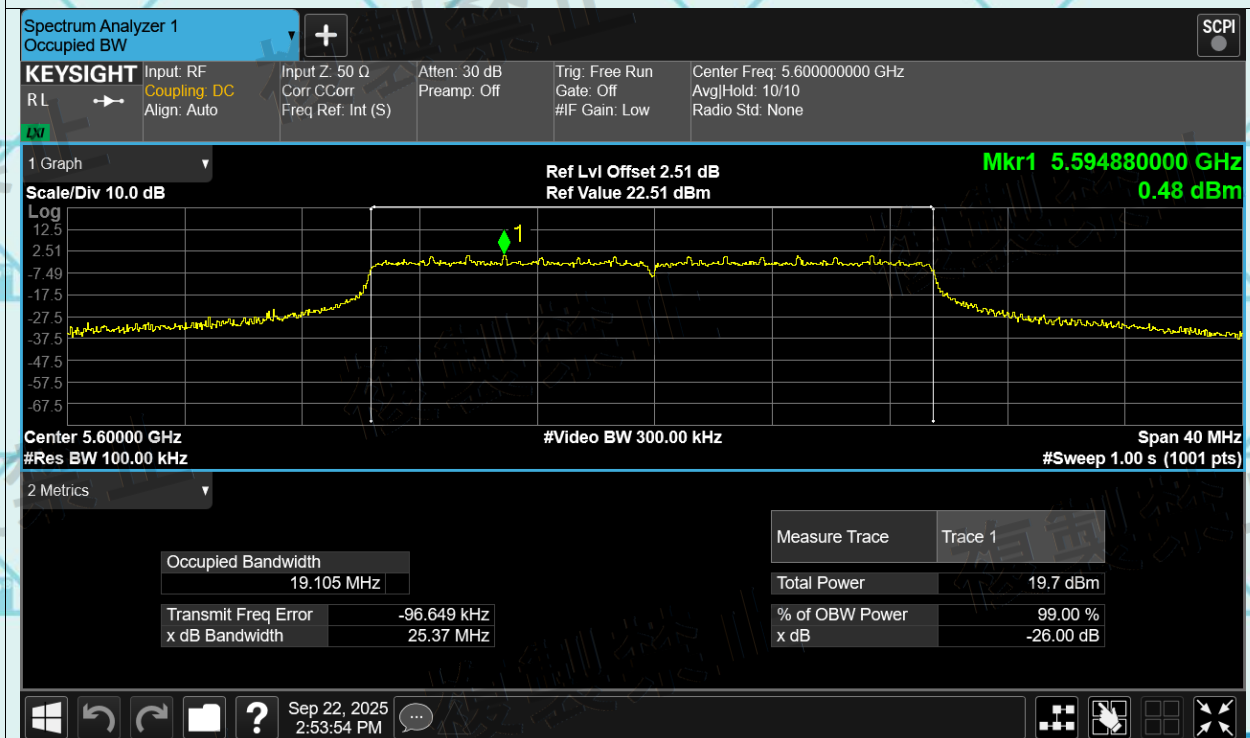


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ax20 5500MHz

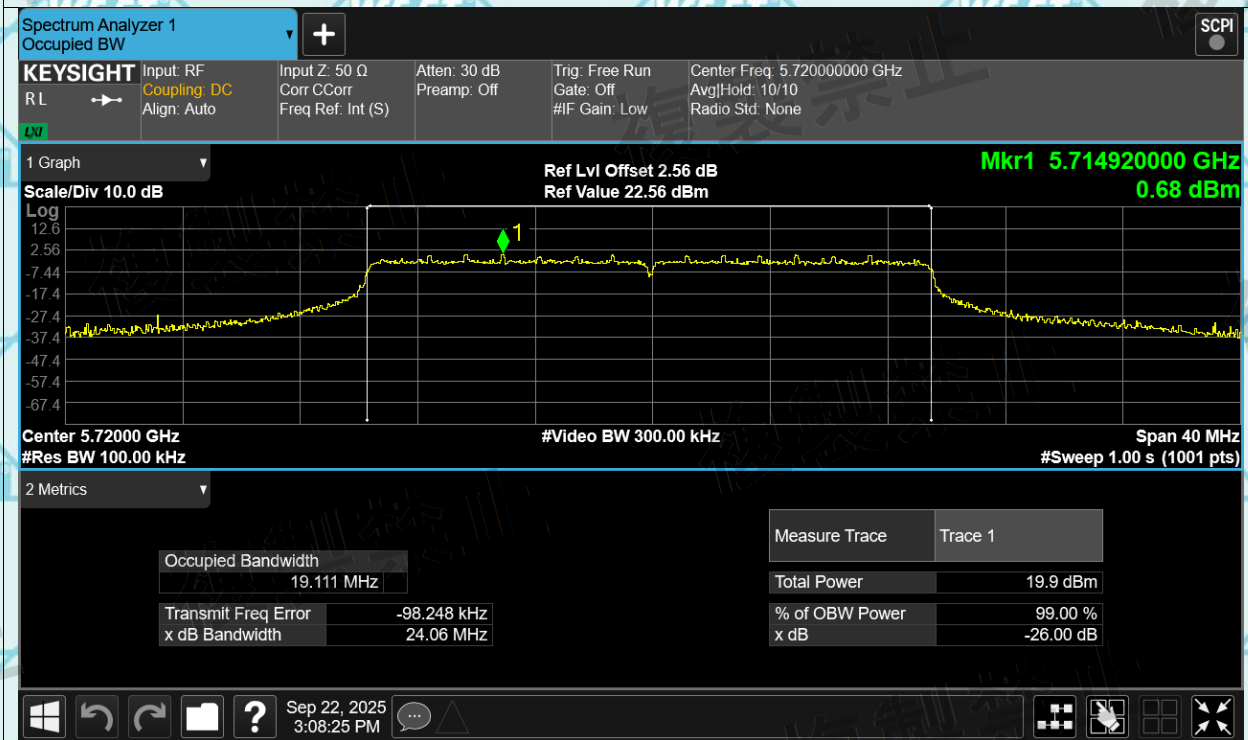


OBW NVNT ax20 5600MHz

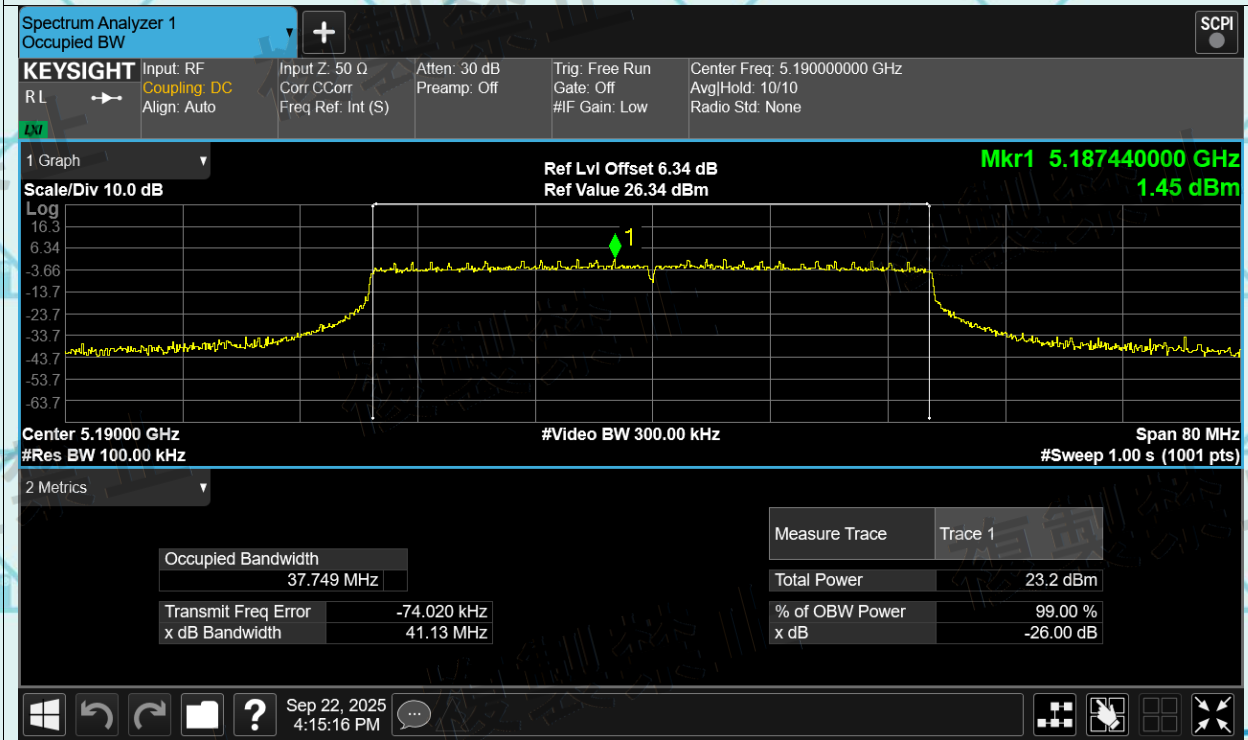


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

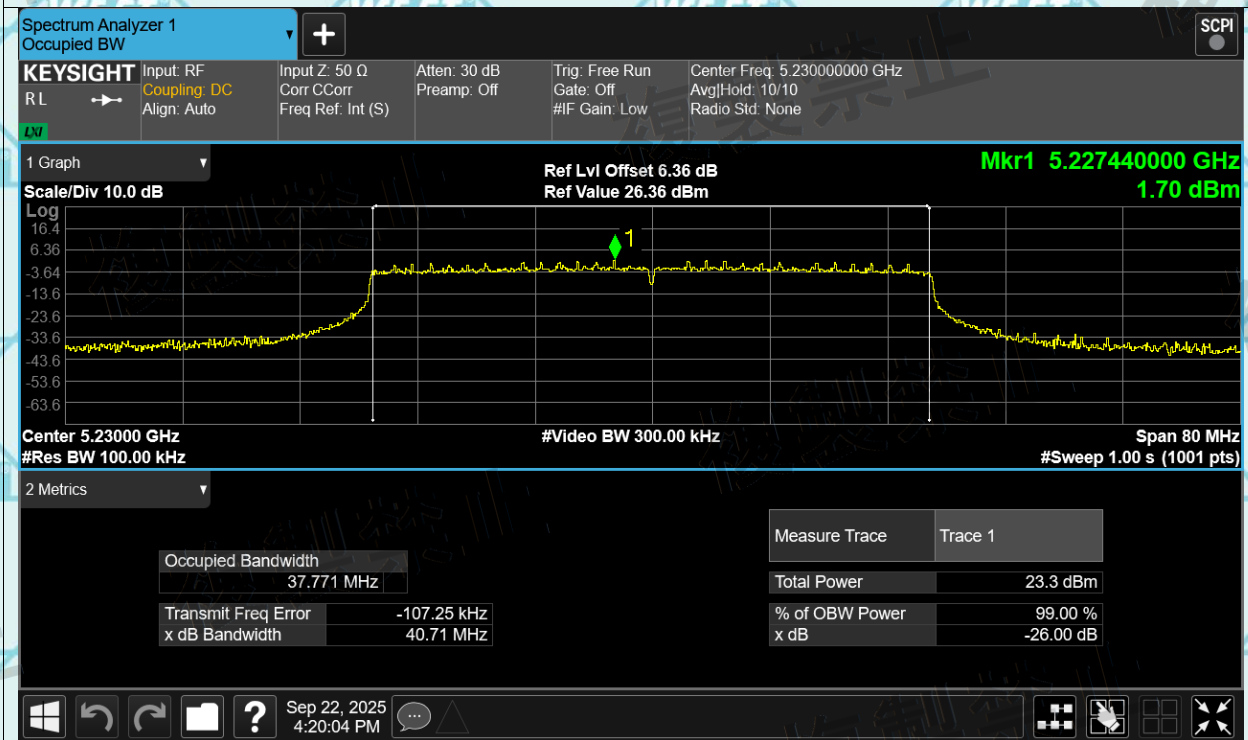
OBW NVNT ax20 5720MHz



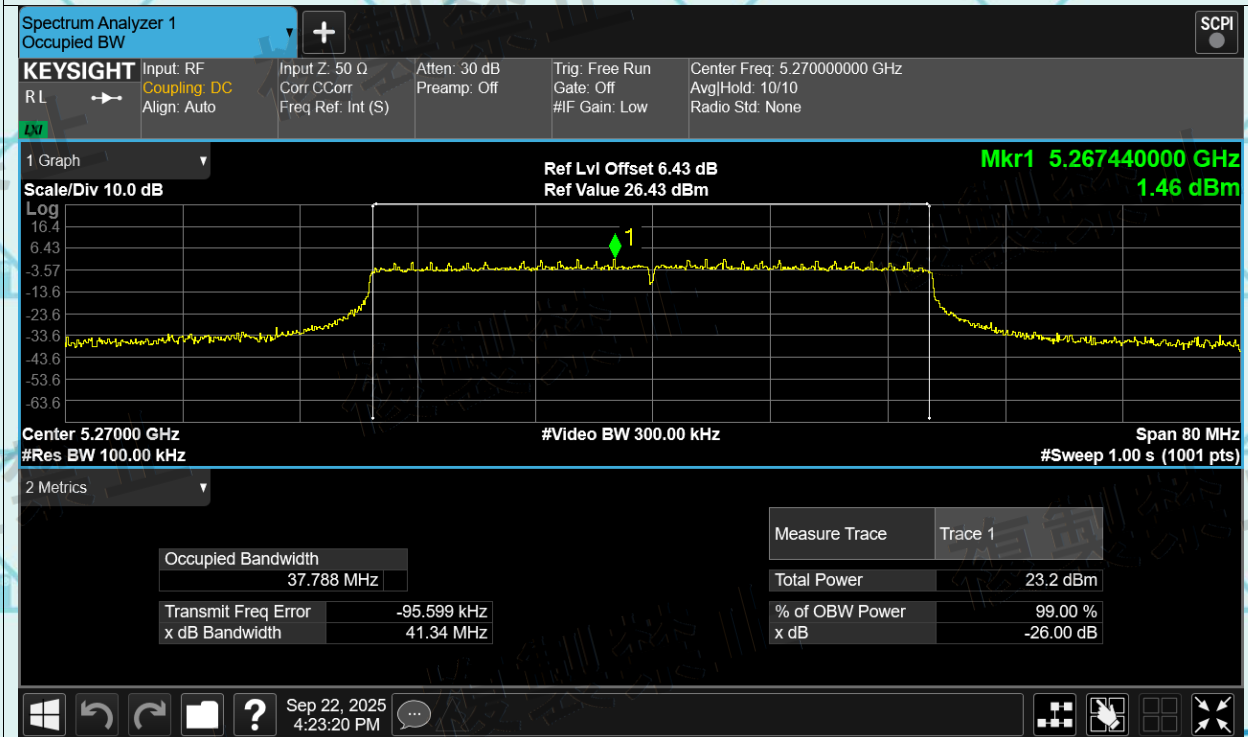
OBW NVNT ax40 5190MHz



OBW NVNT ax40 5230MHz

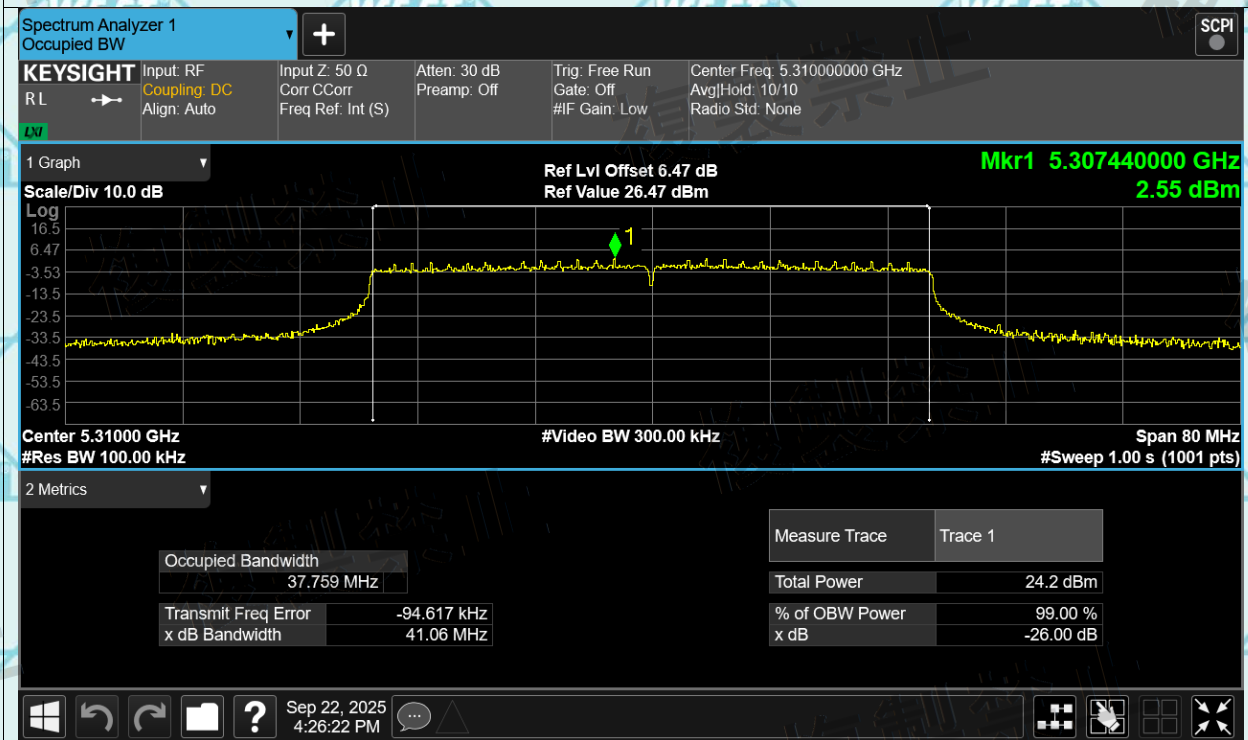


OBW NVNT ax40 5270MHz

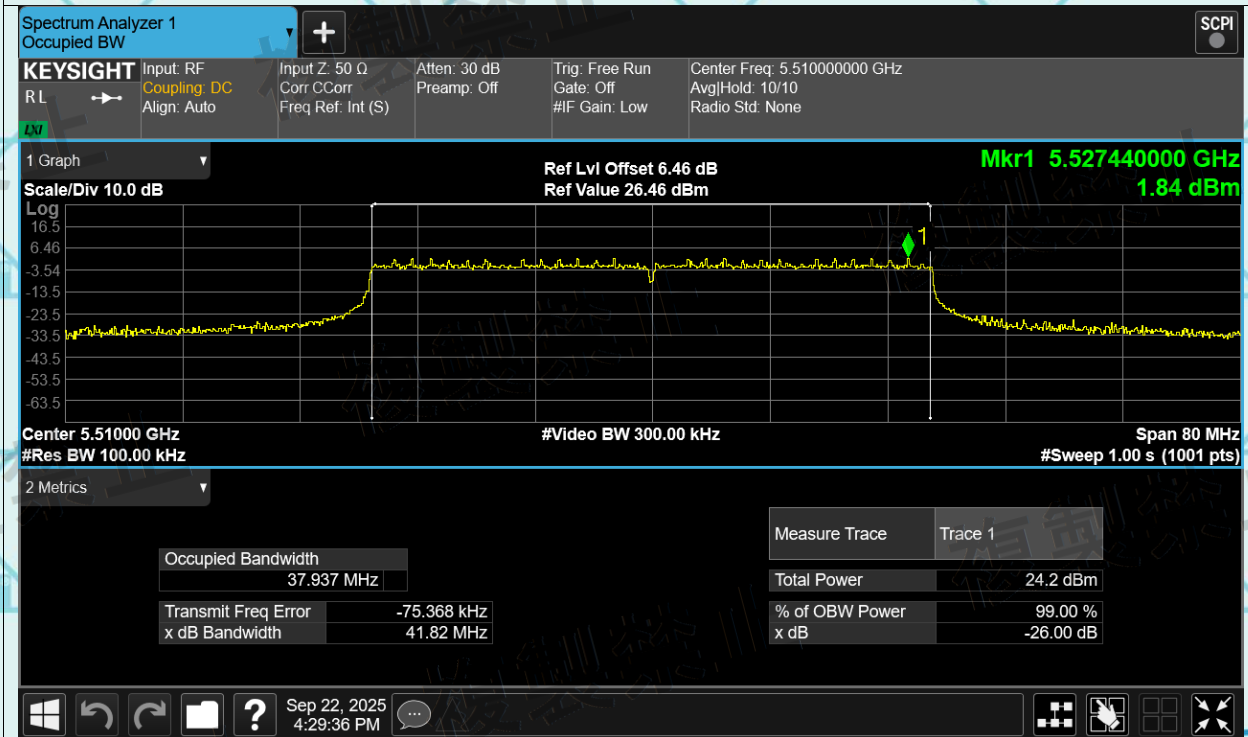


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ax40 5310MHz

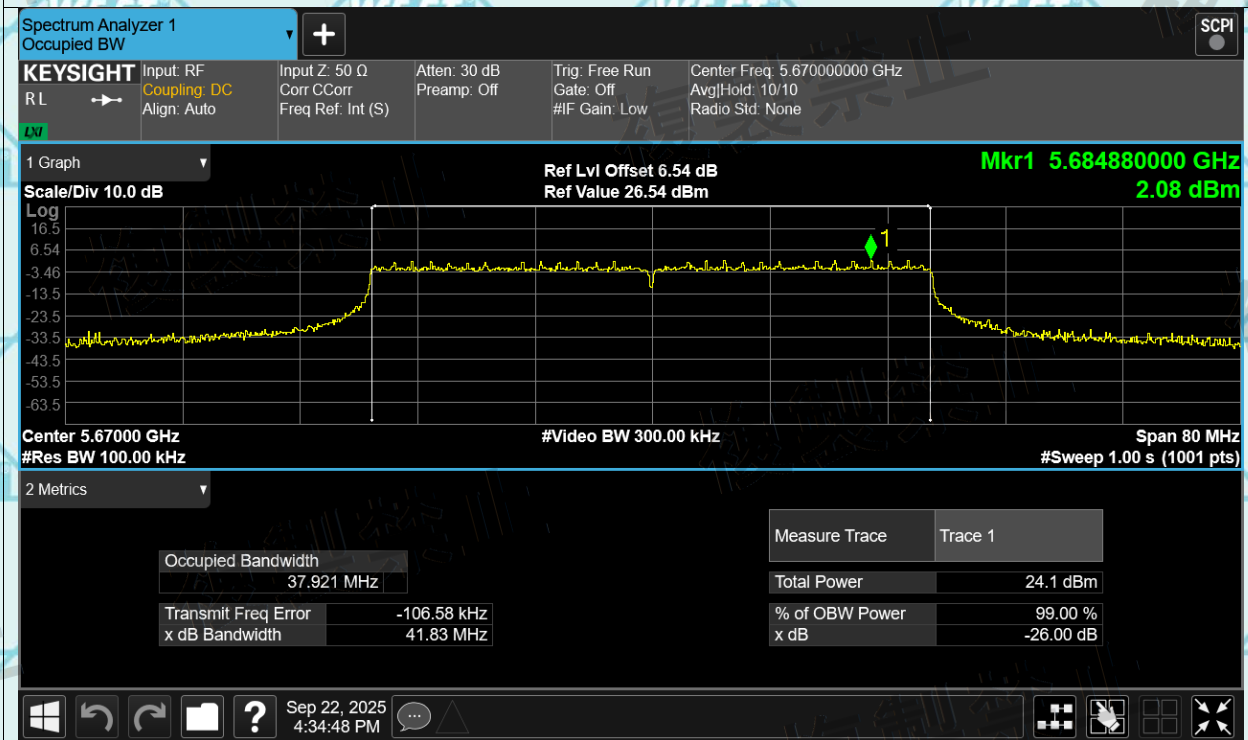


OBW NVNT ax40 5510MHz

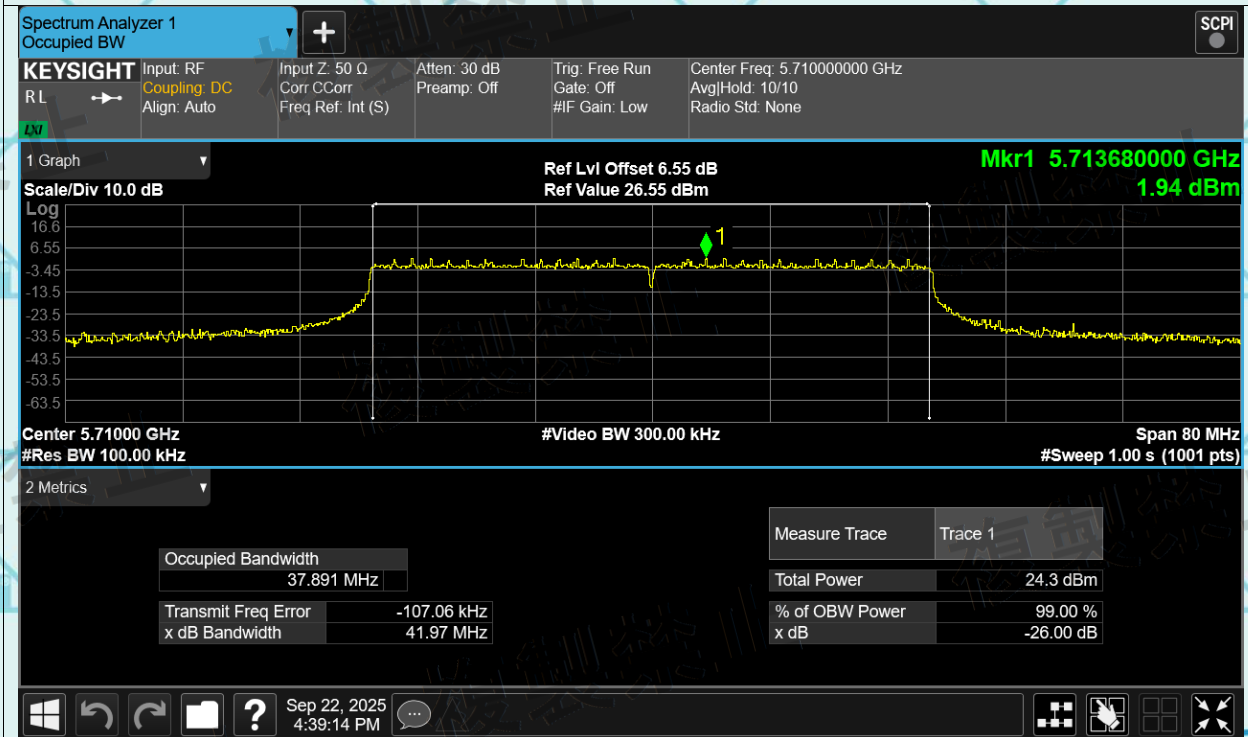


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ax40 5670MHz

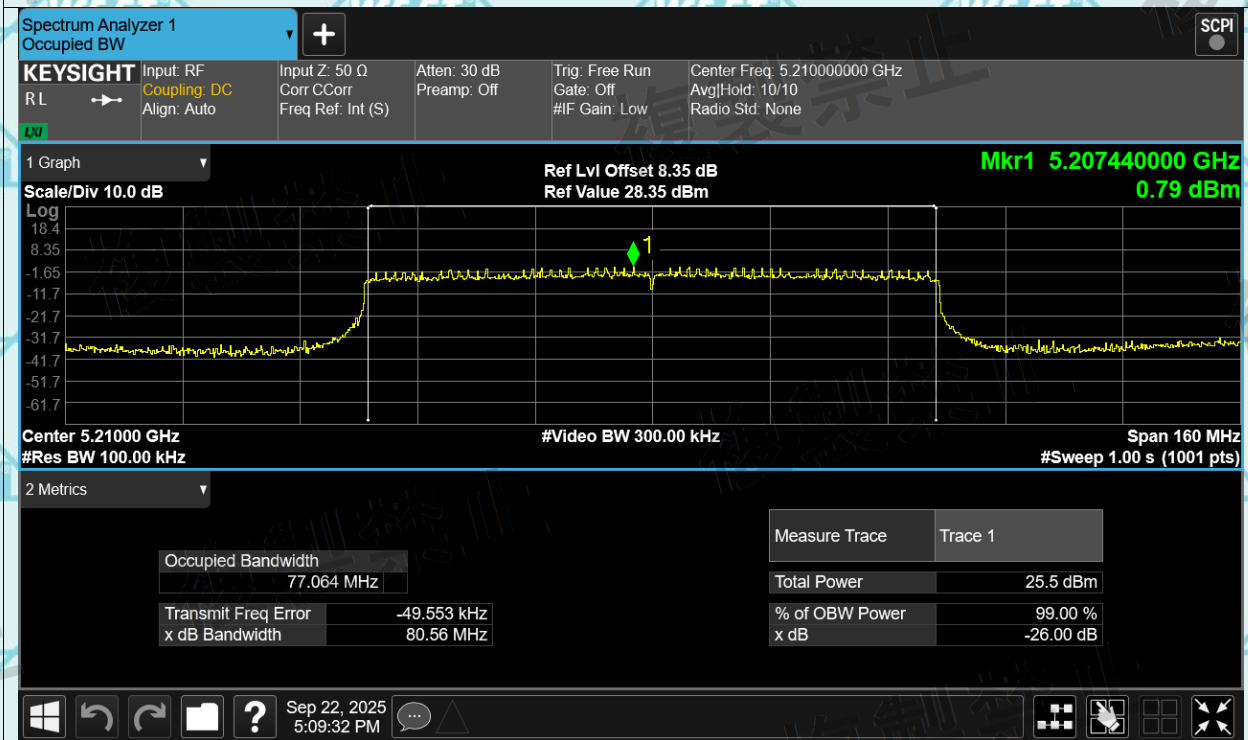


OBW NVNT ax40 5710MHz

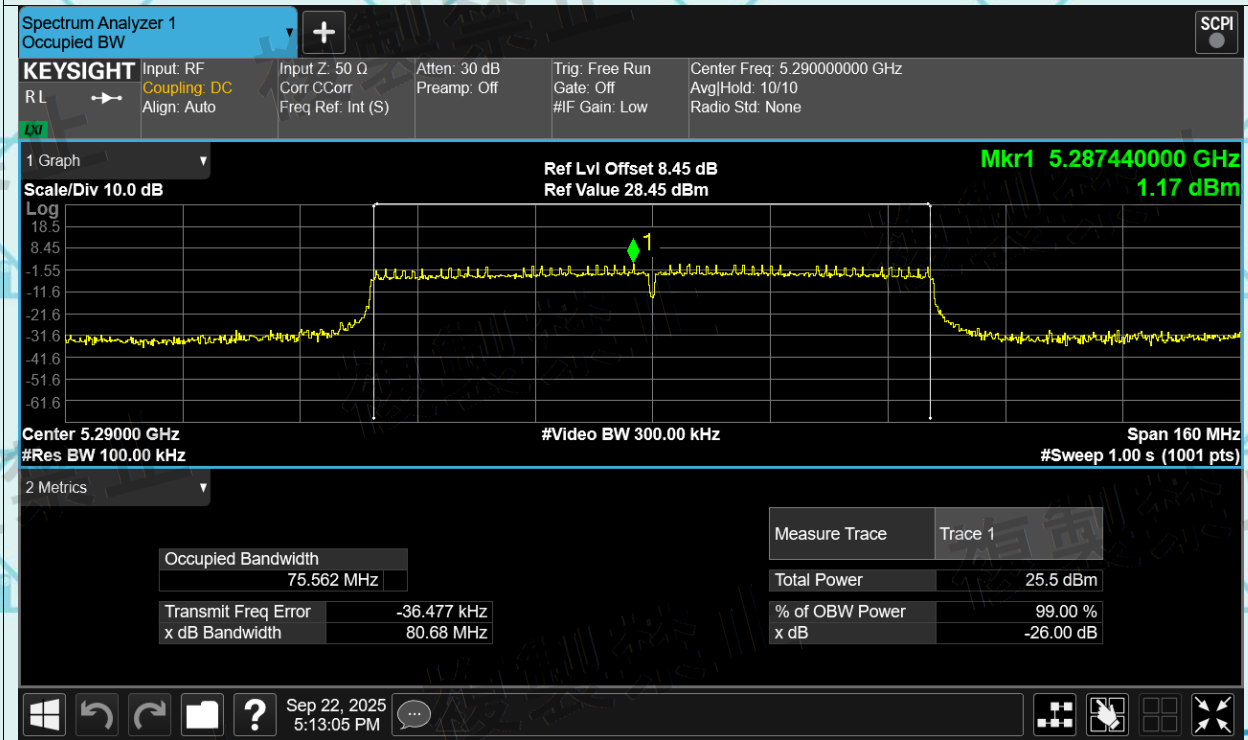


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ax80 5210MHz

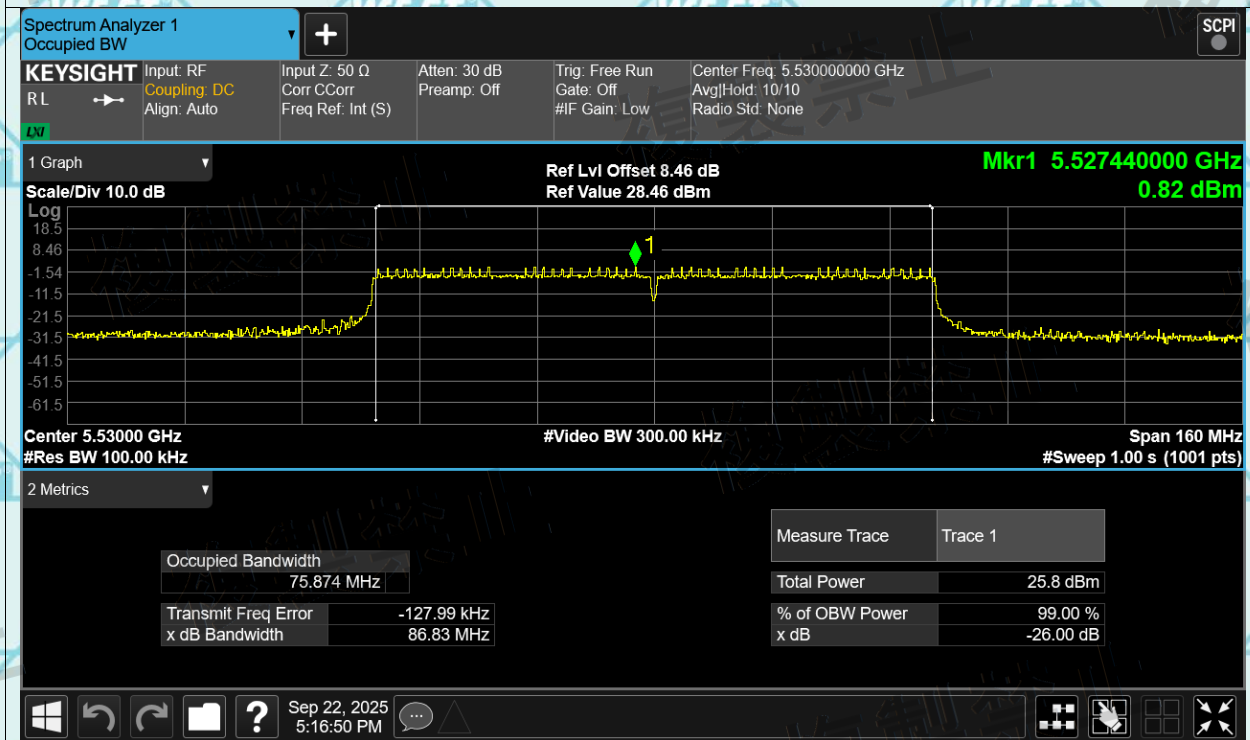


OBW NVNT ax80 5290MHz

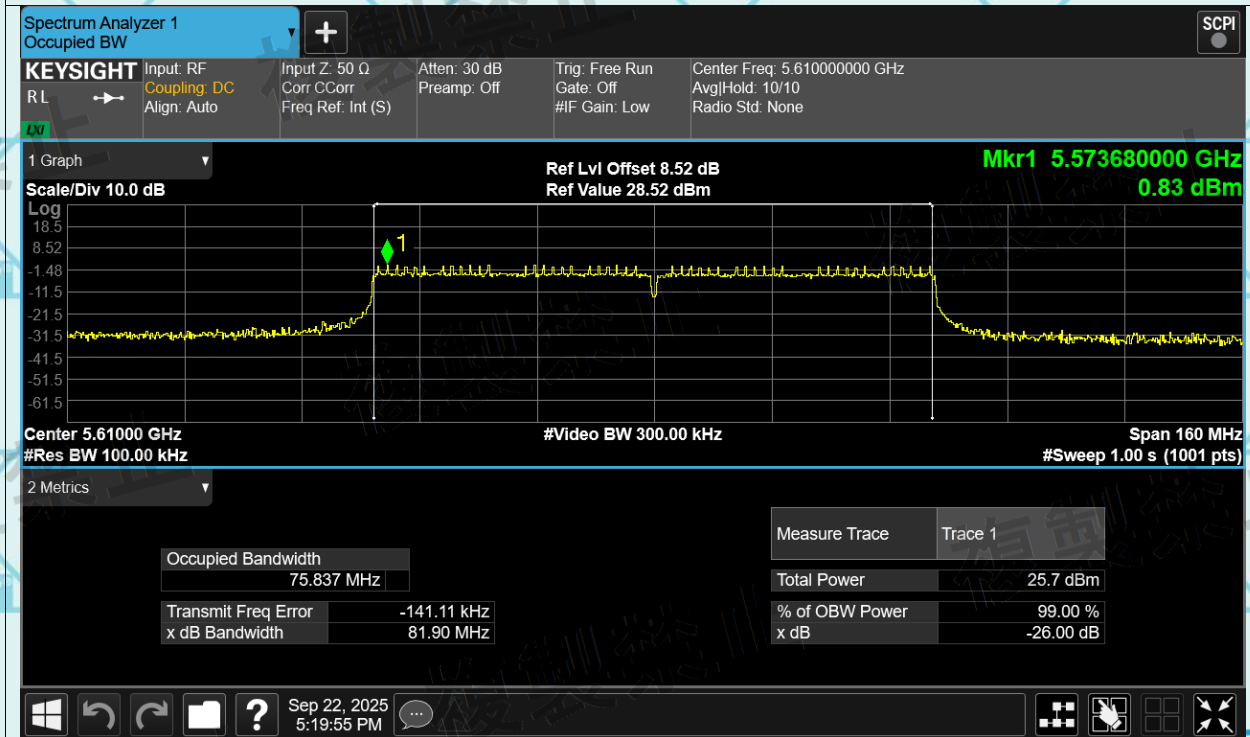


Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ax80 5530MHz

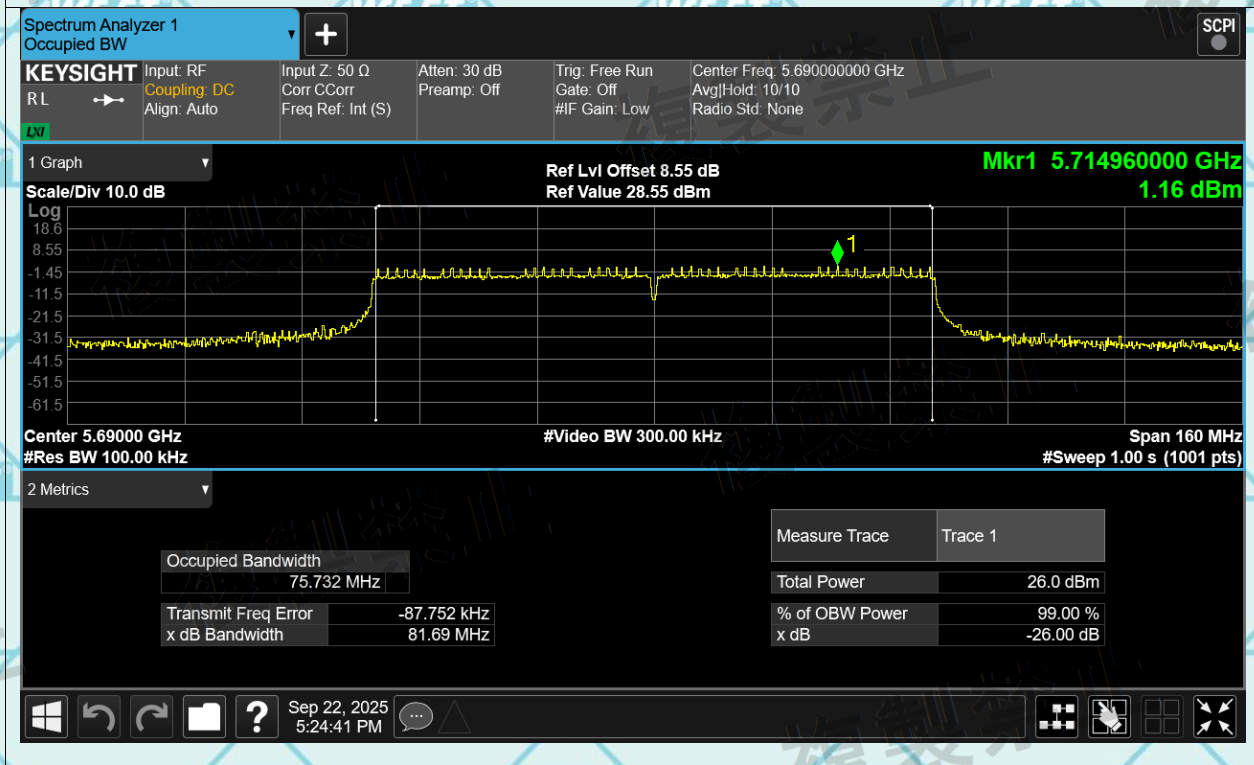


OBW NVNT ax80 5610MHz



Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

OBW NVNT ax80 5690MHz



Report No.: WSCT-R&E250900604A-Wi-Fi5G Issued: 17 September 2025 Revised: None

Spreading Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	90% OBW (MHz)	Limit (MHz)	Verdict
NVNT	a	5180		14.652	0.5	Pass
NVNT	a	5240		14.703	0.5	Pass
NVNT	a	5260		14.722	0.5	Pass
NVNT	a	5320		14.645	0.5	Pass
NVNT	a	5500		15.003	0.5	Pass
NVNT	a	5600		14.922	0.5	Pass
NVNT	a	5720		14.852	0.5	Pass
NVNT	n20	5180		15.716	0.5	Pass
NVNT	n20	5240		15.6	0.5	Pass
NVNT	n20	5260		15.711	0.5	Pass
NVNT	n20	5320		15.686	0.5	Pass
NVNT	n20	5500		16.055	0.5	Pass
NVNT	n20	5600		16.023	0.5	Pass
NVNT	n20	5720		16.089	0.5	Pass
NVNT	n40	5190		31.894	0.5	Pass
NVNT	n40	5230		32.104	0.5	Pass
NVNT	n40	5270		32.336	0.5	Pass
NVNT	n40	5310		32.055	0.5	Pass
NVNT	n40	5510		32.821	0.5	Pass
NVNT	n40	5670		32.995	0.5	Pass
NVNT	n40	5710		32.823	0.5	Pass
NVNT	ac20	5180		15.732	0.5	Pass
NVNT	ac20	5240		15.703	0.5	Pass
NVNT	ac20	5260		15.71	0.5	Pass
NVNT	ac20	5320		15.646	0.5	Pass
NVNT	ac20	5500		16.049	0.5	Pass
NVNT	ac20	5600		16.053	0.5	Pass