

FCC Test Report

**Test report
On Behalf of
Fujian Centerm Information Co.,Ltd.
For
Chromebook**

**Model No.: Centerm Chromebook M311A, Centerm Enterprise
Chromebook M311A, Chromebook M311A, M311A, M311A Plus, M****,
M31****, M***** (“*” may be alphanumeric characters, blank or other
characters)**

FCC ID: 2AN9R-M311A

**Prepared For : Fujian Centerm Information Co.,Ltd.
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Date of Test: Apr. 10, 2026 ~ Apr. 29, 2026

Date of Report: Apr. 29, 2026

Report Number: HK2604100402-5E

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Test Result Certification

Applicant's name: Fujian Centerm Information Co.,Ltd.
Address: #21-#22 Buildings, No.618, Jinshan Road, Jinshan Industrial Park, Cangshan District, Fuzhou City, Fujian Province, China
Manufacturer's Name: Fujian Centerm Information Co.,Ltd.
Address: #21-#22 Buildings, No.618, Jinshan Road, Jinshan Industrial Park, Cangshan District, Fuzhou City, Fujian Province, China

Product description

Trade Mark: Centerm
Product name: Chromebook
Centerm Chromebook M311A, Centerm Enterprise Chromebook M311A, Chromebook M311A, M311A Plus, M****, M31****, M***** ("*" may be alphanumeric characters, blank or other characters)
Model and/or type reference ..:

Standards: FCC 47 CFR Part 15 Subpart E

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Date of Test:

Date (s) of performance of tests: Apr. 10, 2026 ~ Apr. 29, 2026

Date of Issue: Apr. 29, 2026

Test Result: Pass

Testing Engineer

Len Liao

Len Liao

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Sliver Wan

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Jason Zhou

Jason Zhou



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**** Issued history ****

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	Apr. 29, 2026	Jason Zhou

1. EUT Description

Product Name:	Chromebook	
Model Name:	Centerm Chromebook M311A	
Series Model(s):	Centerm Enterprise Chromebook M311A, Chromebook M311A, M311A, M311A Plus, M****, M31****, M***** ("*" may be alphanumeric characters, blank or other characters)	
Model Difference:	All model's the function, software and electric circuit are the same, only with product model named different. Test sample model: Centerm Chromebook M311A.	
Trade Mark:	Centerm	
Power Rating	DC15V From Adapter with AC100-240V, 50/60Hz or DC11.1V From Battery	
Frequency Range :	Band II : IEEE 802.11a/n/ac(HT20)/ax(HE20) 5.260GHz-5.320GHz IEEE 802.11n/ac(HT40)/ax(HE40) 5.270GHz-5.310GHz IEEE 802.11ac(HT80)/ax(HE80) 5.290GHz Band III: IEEE 802.11a/n/ac(HT20)/ax(HE20) 5.500GHz-5.700GHz IEEE 802.11n/ac(HT40)/ax(HE40) 5.510GHz-5.670GHz IEEE 802.11ac(HT80)/ax(HE80) 5.530GHz-5.610GHz	
Modulation Technique:	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode only 1024QAM for OFDMA in 11ax mode only	
Antenna Specification:	5.3G: FPC Antenna Antenna 1: 1.11dBi Antenna 2: 1.55dBi MIMO: 4.35dBi	5.6G: FPC Antenna Antenna 1: 1.57dBi Antenna 2: 1.53dBi MIMO: 4.56dBi
Operating Mode:	Client without radar detection function	

Note:

1. The EUT incorporates a MIMO function. Physically, it provides two completed transmitters and receivers (2T2R), two transmit signals are completely correlated, then, Direction gain=GANT + Array Gain (Array Gain=10 log(2) dB for power spectral density; Array Gain=0 for power measurement)
2. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
3. Antenna gain Refer to the antenna specifications.
4. The cable loss data is obtained from the supplier.
5. The test results in the report only apply to the tested sample.

Remark:

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
2. This submittal(s) (test report) is intended for **ECCID: 2AN9R-M311A** filing to comply with FCC Part 15, Subpart E Rules.

2. Test Methodology

The tests documented in this report were performed in accordance with ANSI C63.10:2020 and FCC CFR 47 15.207, 15.209 and 15.407.

2.1 EUT Configuration

The EUT configuration for testing is installed for RF field strength measurement to meet the Commissions requirement, and is operated in a manner intended to generate the maximum emission in a continuous normal application.

2.2 EUT Exercise

The EUT is operated in the engineering mode to fix the Tx frequency for the purposes of measurement.

According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

2.3 General Test Procedures

AC Conducted Emissions

The EUT is placed on the turn table, which is positioned at 0.8 m above the ground plane. According to the requirements in Section 13.3 of ANSI C63.10:2020, the conducted emission from the EUT is measured in the frequency range between 0.15MHz and 30MHz, using the CISPR Quasi-Peak detector mode.

Radiated Emissions

Under 1GHz

The EUT is placed on a turn table, which is 0.8m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.10:2020.

Above 1GHz

The EUT is placed on a turn table, which is 1.5m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.10:2020.

2.4 FCC Part 15.205 Restricted Bands of Operations

Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.50 - 5.15
0.495 - 0.505 ⁽¹⁾	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960.0 - 1240	7.25 - 7.75
4.125 - 4.128	25.50 - 25.67	1300 - 1427	8.025 - 8.500
4.17725 - 4.17775	37.50 - 38.25	1435.0 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73.00 - 74.60	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.80 - 75.20	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108.00 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.90 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500.0	17.7 - 21.4
8.37625 - 8.38675	156.70 - 156.90	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.1700	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.20	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358.0	36.43 - 36.5 ⁽²⁾
12.57675 - 12.57725	322.0 - 335.4	3600 - 4400	
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510MHz.

² Above 38.6

Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

2.5 Description of Test Modes

Description	Modulation Technology	Modulation Type
26dB Bandwidth and 99% bandwidth	OFDM/ OFDMA	BPSK
Maximum conducted output power	OFDM/ OFDMA	BPSK
Band edges measurement	OFDM/ OFDMA	BPSK
Peak Power Spectral Density	OFDM/ OFDMA	BPSK
Radiated undesirable emission	OFDM/ OFDMA	BPSK
AC Power line conducted emission	OFDM/ OFDMA	BPSK

IEEE802.11a mode:

Channel (5260MHz), Channel (5280MHz), Channel (5320MHz), Channel (5500MHz), Channel (5580MHz) and Channel (5700MHz) with 6Mbps data rate were chosen for full testing.

IEEE802.11n/acHT20/axHE20 mode:

Channel (5260MHz), Channel (5280MHz), Channel (5320MHz), Channel (5500MHz), Channel (5580MHz) and Channel (5700MHz) with 6Mbps data rate were chosen for full testing.

IEEE802.11n/acHT40/axHE40 mode:

Channel (5270MHz), Channel (5310MHz), Channel (5510MHz), Channel (5550MHz) and Channel (5670MHz) with 6Mbps data rate were chosen for full testing.

IEEE802.11acHT80/axHE80 mode:

Channel (5290MHz), Channel (5530MHz), Channel (5610MHz) with MCS0 data rate were chosen for full testing.



2.6 Antenna Description

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached or an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section”

- * The antenna of this EUT is a unique (FPC Antenna for WiFi).
- * The EUT complies with the requirement of 15.203.

WIFI ANTENNA



**HUAKE TESTING**

3. Instrument Calibration

The measuring equipment, which was utilized in performing the tests documented here in, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

3.1 Measurement Equipment Used

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	2026/02/11	1 Year
2	L.I.S.N.	R&S	ENV216	HKE-059	2026/02/04	1 Year
3	EMI Test Receiver	R&S	ESR-7	HKE-005	2026/02/06	1 Year
4	Spectrum analyzer	Agilent	N9020A	HKE-025	2026/02/06	1 Year
5	Spectrum analyzer	KEYSIGHT	N9020A	HKE-117	2026/02/06	1 Year
6	Spectrum analyzer	R&S	FSV3044	HKE-126	2026/02/06	1 Year
7	Preamplifier	Schwarzbeck	EMC051845SE	HKE-006	2026/02/04	1 Year
8	Preamplifier	Agilent	83051A	HKE-016	2026/02/04	1 Year
9	Preamplifier	QJD	QJD18-40-50	HKE-030	2026/02/05	1 Year
10	6dB Attenuator	Pasternack	6dB	HKE-152	2026/02/06	1 Year
11	EMI Test Receiver	R&S	ESR-7	HKE-010	2026/02/06	1 Year
12	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2026/02/06	2 Year
13	Loop Antenna	COM-POWER	AL-130R	HKE-014	2026/02/06	2 Year
14	Horn Antenna	Schwarzbeck	9120D	HKE-013	2026/02/06	2 Year
15	Broadband Horn Antenna	A-INFO	LB-180400-KF	HKE-031	2026/02/06	2 Year
16	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
17	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
18	RF Automatic control unit	Tonscend	JS0806-2	HKE-060	2026/02/06	1 Year
19	High pass filter unit	Tonscend	JS0806-F	HKE-055	2026/02/06	1 Year
20	Wireless Communication Test Set	R&S	CMW500	HKE-027	2026/02/06	1 Year
21	High-low temperature chamber	Guangke	HT-80L	HKE-118	2025/06/09	1 Year
22	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2025/06/09	1 Year
23	RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	/	/
24	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	2026/02/04	1 Year
25	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/	/

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3.2 Measurement Uncertainty

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR 100 028-1 [2] and shall correspond to an expansion factor (coverage factor) $k = 1.96$ or $k = 2$ (which provide confidence levels of respectively 95% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Table 6 is based on such expansion factors.

Table 6: Maximum measurement uncertainty

Parameter	UNCERTAINTY
Radio frequency	$\pm 0.8 \times 10^{-7}$
RF power, conducted	$\pm 3.35\text{dB}$
Maximum frequency deviation: -within 300Hz and 6 kHz of audio frequency -within 6 kHz and 25 kHz of audio frequency	1.3% 0.65 dB
Adjacent channel power	0.2054
Conducted spurious emission of transmitter, valid up to 6 GHz	$\pm 2.20\text{dB}$
Conducted emission of receivers	$\pm 0.37\text{dB}$
Radiated emission of transmitter, valid up to 6 GHz	$\pm 3.94\text{ dB}$
Radiated emission of receiver, valid up to 6 GHz	$\pm 3.94\text{ dB}$
RF level uncertainty for a given BER	$\pm 0.3\text{ dB}$
Temperature	$\pm 0.1^{\circ}\text{C}$
Humidity	$\pm 1.0\%$

4. Facilities and Accreditations

4.1 Facilities

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

☒ 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

The sites are constructed in conformance with the requirements of ANSI C63.10:2020 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16 1, "Radio Interference Measuring Apparatus and Measurement Methods."

4.2 Equipment

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

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

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

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

4.3 Table of Accreditations and Listings

The test facilities used to perform radiated and conducted emissions tests are accredited by American Association for Laboratory Accreditation Program for the specific scope accreditation under Lab Code: 200581-0 to perform Electromagnetic Interference tests according to FCC Part 15 and CISPR 22 requirements. In addition, the test facilities are listed with USA, Certification and Engineering Bureau, 424105 for 10m chamber, 238958 for 3m chamber.

5. Setup of Equipment Under Test

5.1 Setup Configuration of EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

5.2 Support Equipment

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Remark
1	Chromebook	Centerm	Centerm Chromebook M311A	N/A	EUT
2	Adapter	N/A	TEKA-PC1A45WUS	Input: AC100-240V, 50/60Hz, 1.2A MAX Output: DC5V/3A 15W, DC9V/3A 27W, DC12V/3A 36W, DC15V/3A 45W, DC20V/2.25A 45W	

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 26db Bandwidth and 99% Occupied Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

6. FCC Part 15 Requirements

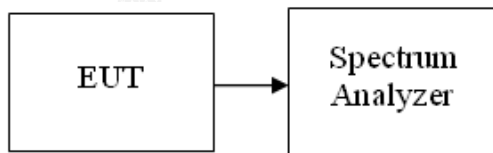
6.1 26dB Bandwidth and 99% Occupied Bandwidth

Limit

According to §15.403(i), for purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Compliance with the emissions limits is based on the use of measurement instrumentation employing a peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

Test Configuration

Test Procedure



1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low-loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzers RBW = approximately 1% of the emission bandwidth, VBW > RBW, Detector = Peak, Span > 26dB bandwidth, and Sweep = auto, Trace mode = max hold.
4. Measure the maximum width of the emission that is 26dB down from the maximum of the emission.
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
5. Repeat until all the rest channels were investigated.
6. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
7. Use the 99 % power bandwidth function of the instrument (if available).

Test Results

No non-compliance noted

Test Data



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Test mode: IEEE802.11a mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5260	23.90	17.165
Mid	5280	24.52	17.177
High	5320	24.34	17.086

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5500	24.49	17.079
Mid	5580	23.52	17.054
High	5700	24.47	17.139

Test mode: IEEE802.11n HT20 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5260	24.31	17.955
Mid	5280	25.37	17.991
High	5320	25.05	17.958

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5500	24.77	17.976
Mid	5580	24.69	17.957
High	5700	24.92	17.938

Test mode: IEEE802.11n HT40 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5270	39.87	35.840
High	5310	39.86	35.867

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5510	39.72	35.862
Mid	5550	39.72	35.849
High	5670	39.76	35.848

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Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Test mode: IEEE802.11ac HT20 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5260	25.57	17.960
Mid	5280	24.51	17.966
High	5320	25.01	17.956

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5500	25.41	17.955
Mid	5580	25.05	17.953
High	5700	24.66	17.958

Test mode: IEEE802.11ac HT40 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5270	39.78	35.878
High	5310	39.78	35.826

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5510	39.90	35.844
Mid	5550	39.76	35.805
High	5670	39.83	35.833

Test mode: IEEE802.11ac HT80 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
--	5290	79.86	75.364

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5530	79.88	75.000
High	5610	80.04	75.172

Test mode: IEEE802.11ax HE20 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5260	23.13	18.946
Mid	5280	21.58	18.990
High	5320	22.34	18.966

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5500	22.60	18.977
Mid	5580	27.39	18.938
High	5700	21.70	18.962

Test mode: IEEE802.11ax HE40 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5270	40.26	37.506
High	5310	40.51	37.534

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5510	40.85	37.479
Mid	5550	41.56	37.619
High	5670	39.98	37.510

Test mode: IEEE802.11ax HE80 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
--	5290	83.97	76.775

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5530	83.10	76.581
High	5610	83.09	76.634



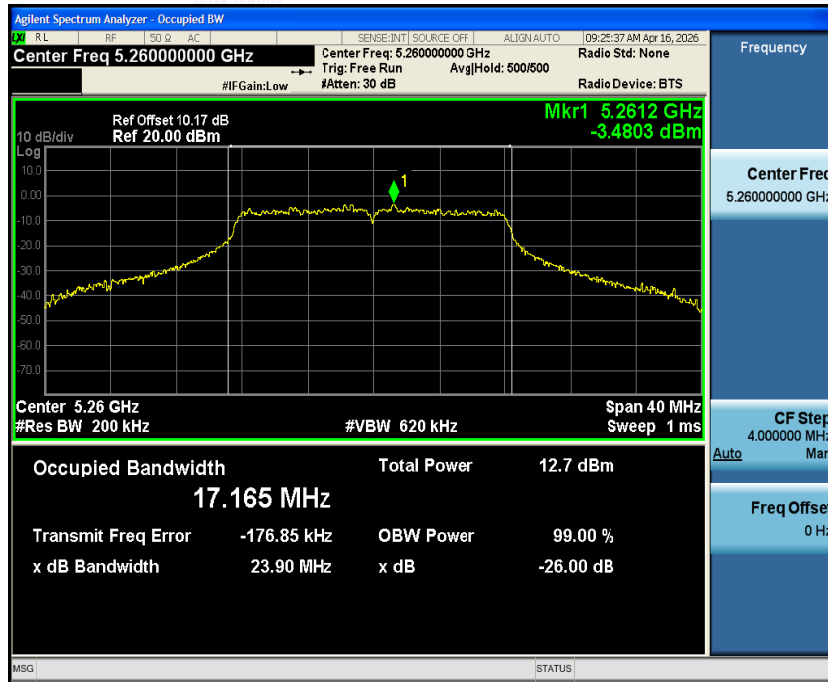
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Test Plot

IEEE802.11a mode:

5250~5350MHz

Low Channel



Mid Channel



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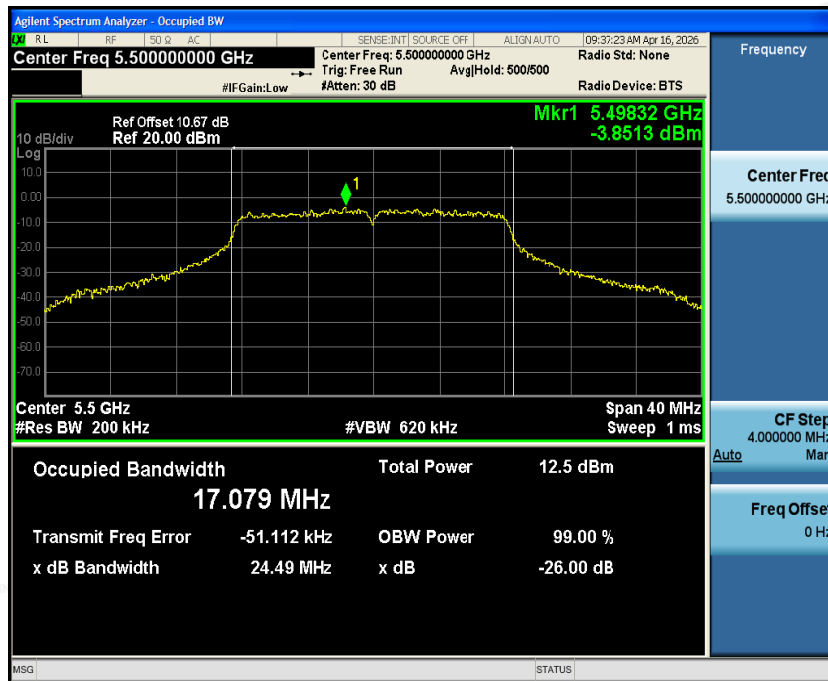
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High Channel



5470~5725MHz

Low Channel



Mid Channel



High Channel





5250~5350MHz

Low Channel

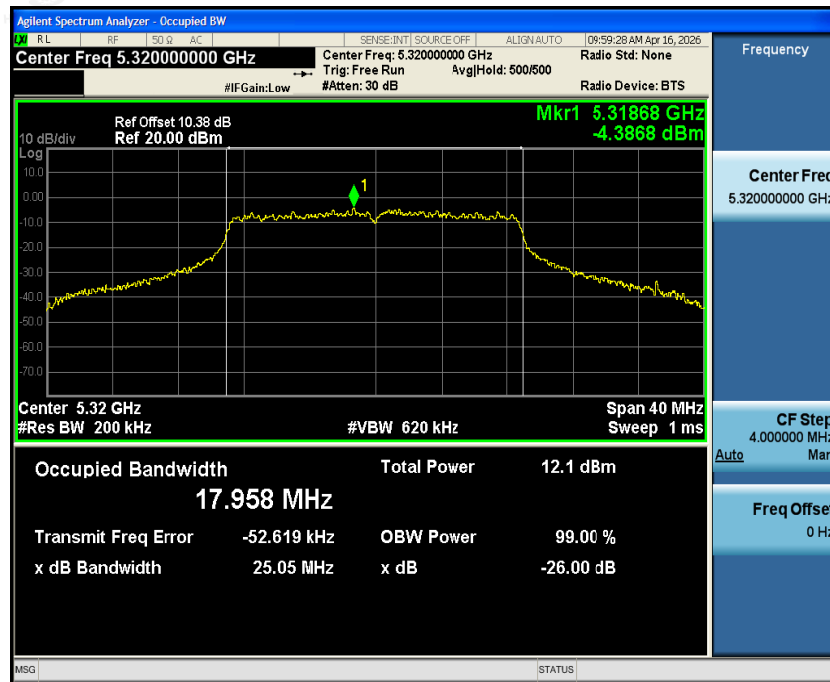


Mid Channel



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High Channel



5470~5725MHz

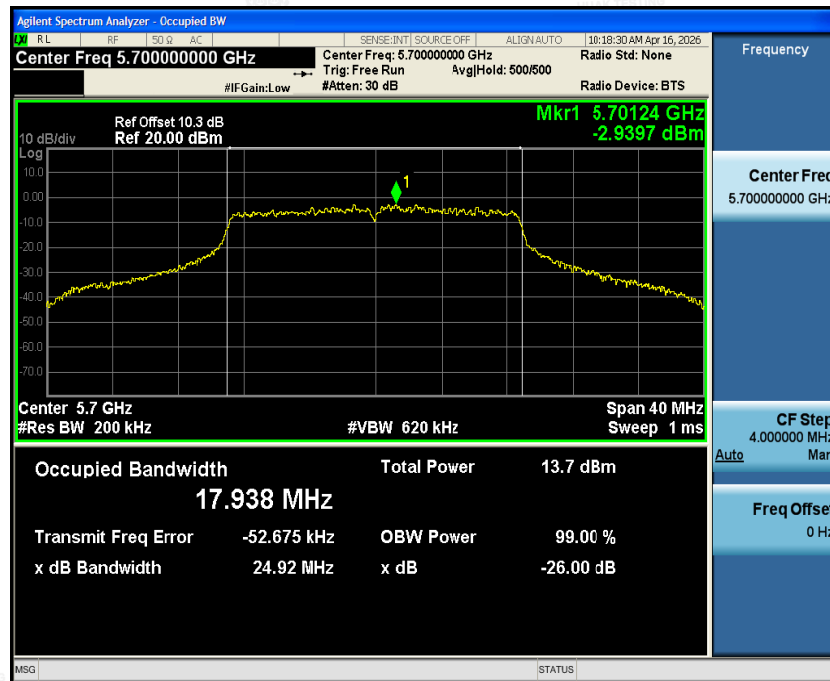
Low Channel



Mid Channel



High Channel



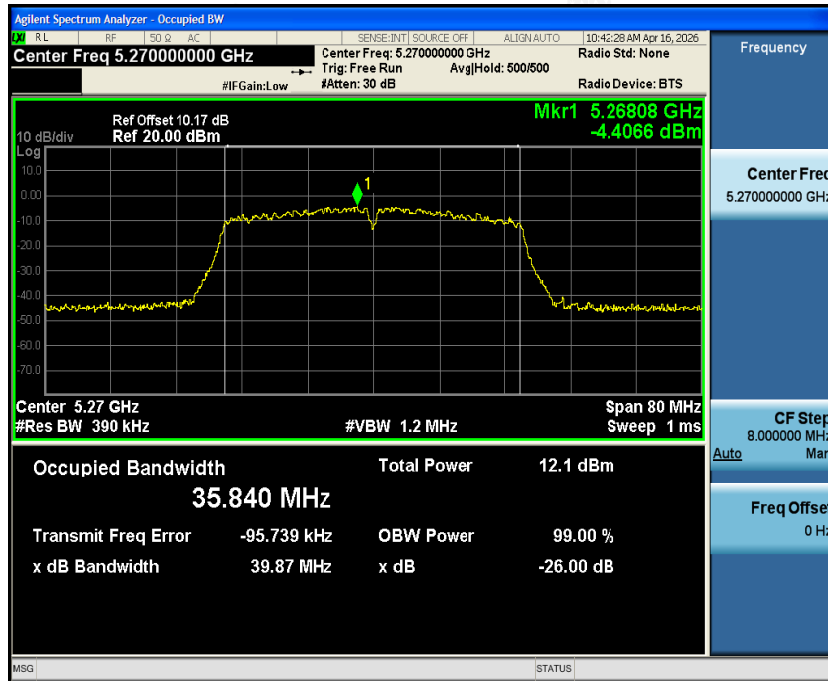


HUAKE TESTING

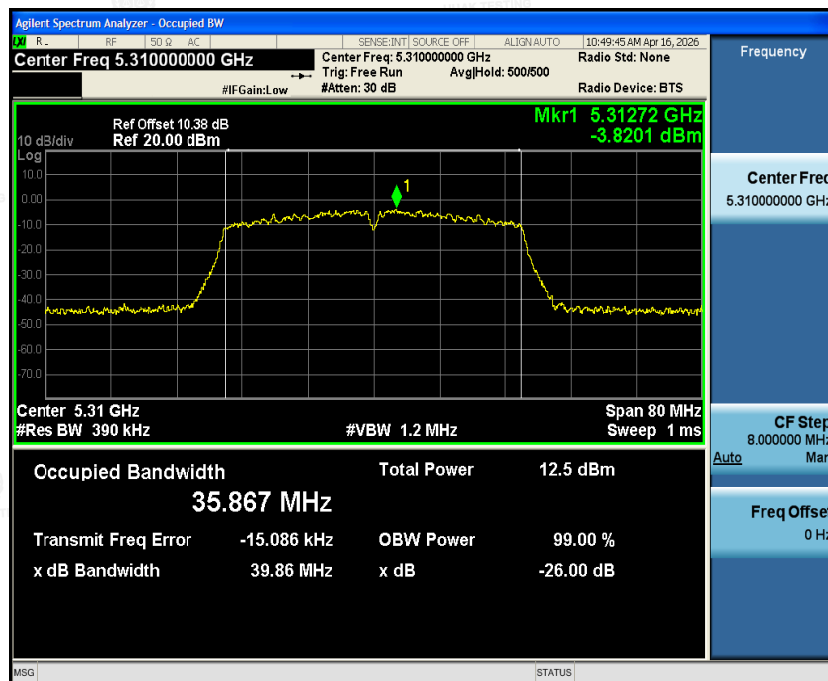
IEEE802.11n HT40 mode

5250~5350MHz

Low Channel



High Channel

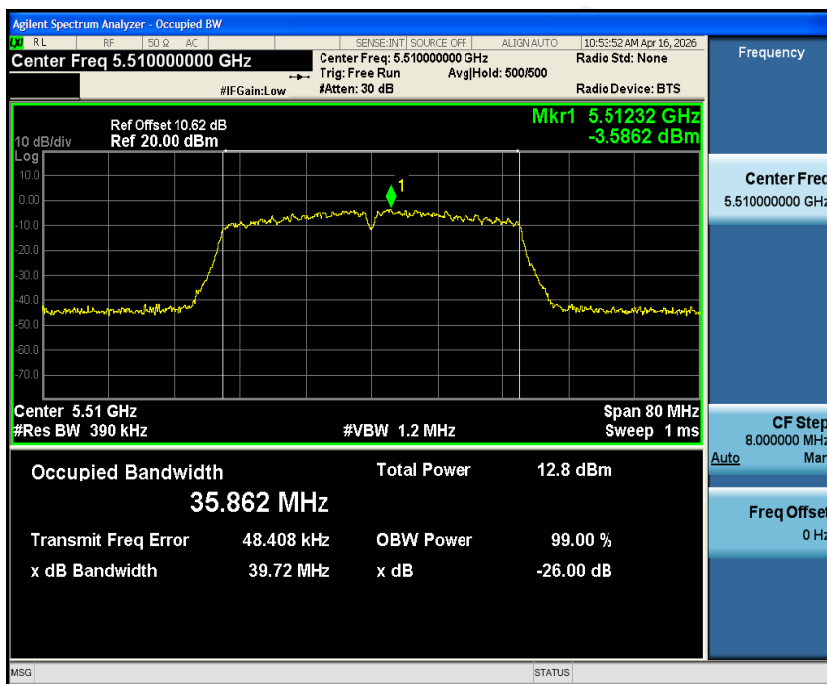


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5470~5725MHz

Low Channel



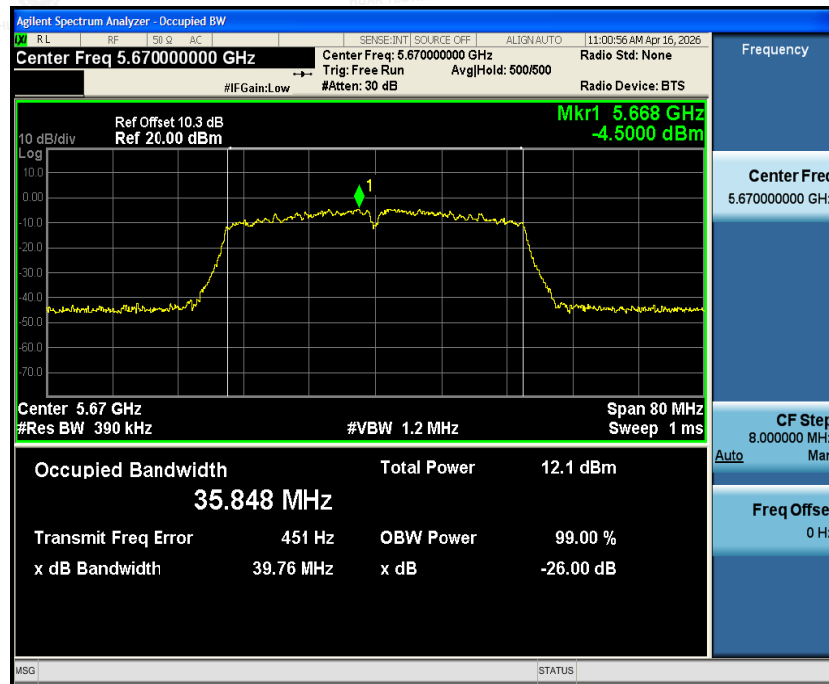
Mid Channel



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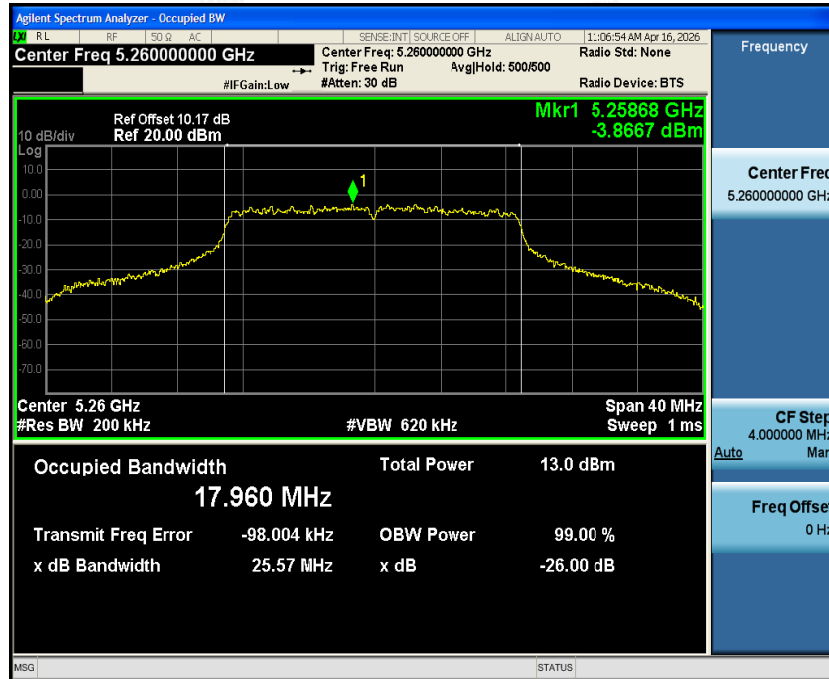
High Channel



IEEE802.11ac HT20 mode

5250~5350MHz

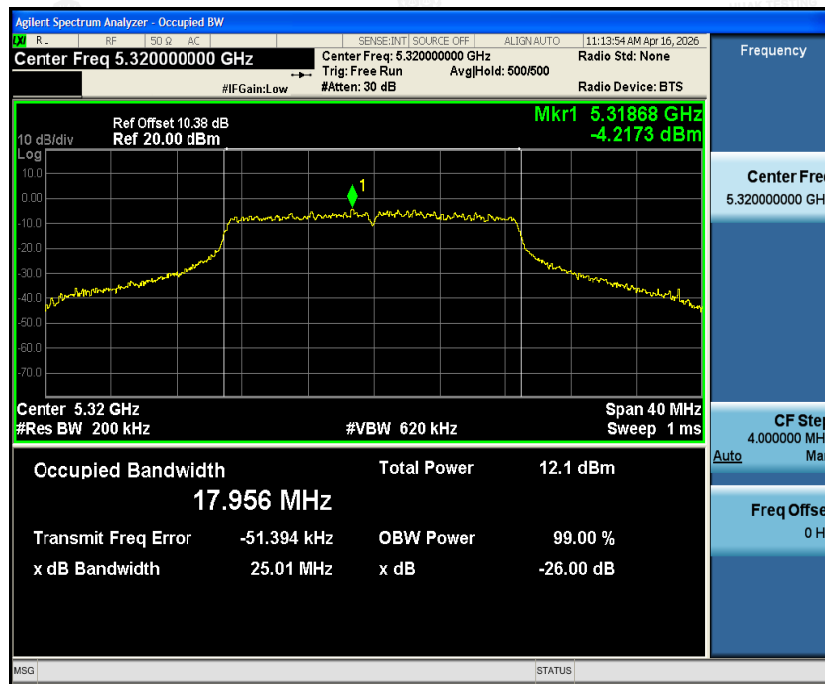
Low Channel



Mid Channel



High Channel

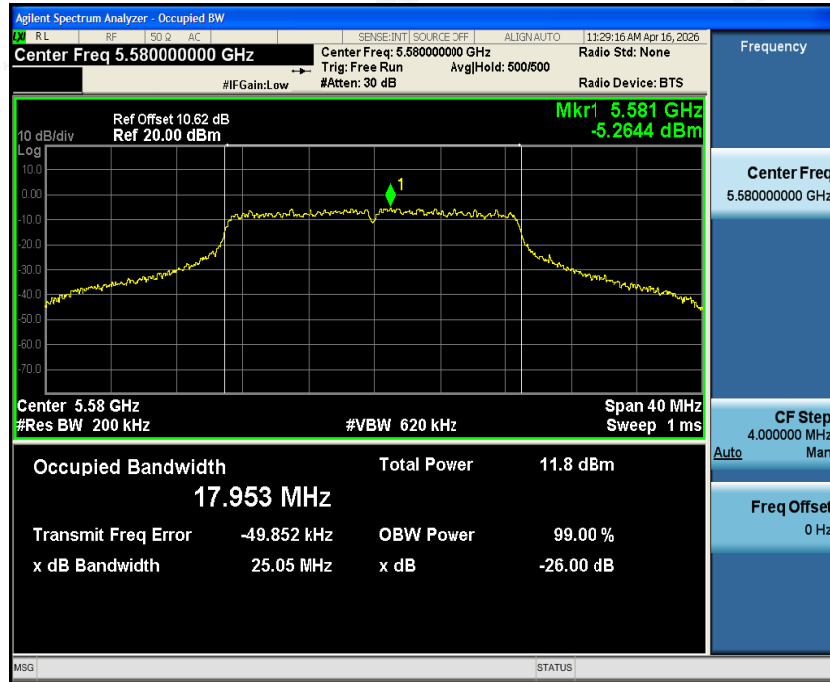


5470~5725MHz

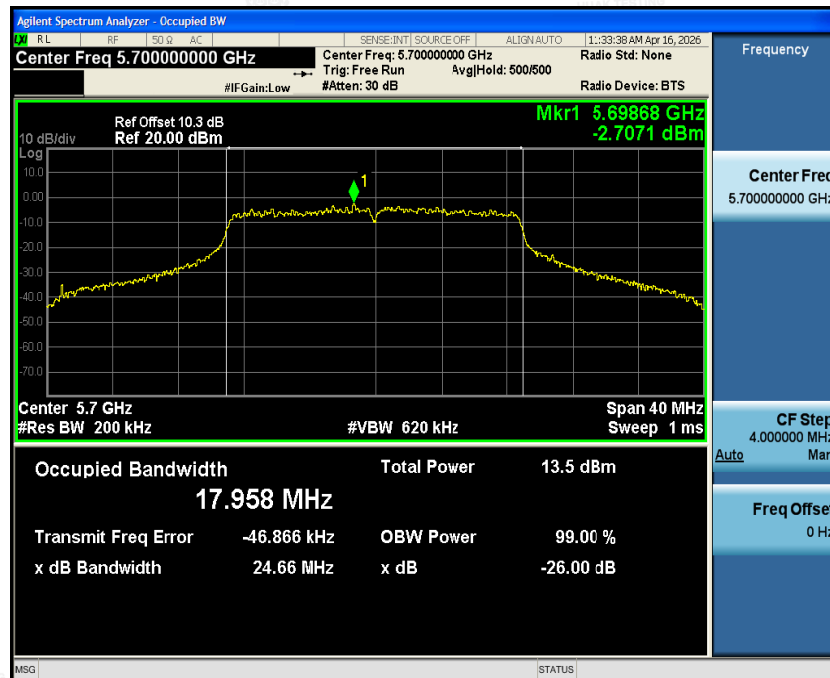
Low Channel



Mid Channel



High Channel





5250~5350MHz

Agilent Spectrum Analyzer -- Occupied BW

Center Freq 5.27000000 GHz

Ref Offset 10.17 dB
Ref 20.00 dBm

Mkr1 5.27328 GHz
-4.1401 dBm

Occupied Bandwidth: 35.878 MHz

Total Power: 12.2 dBm

Transmit Freq Error: -107.07 kHz

OBW Power: 99.00 %

x dB Bandwidth: 39.78 MHz

x dB: -26.00 dB

The screenshot displays the Agilent Spectrum Analyzer interface. The main plot shows a signal centered at 5.27 GHz with a span of 80 MHz. The signal level is approximately -10 dBm. A marker is placed at 5.27328 GHz, showing a level of -4.1401 dBm. The occupied bandwidth is measured as 35.878 MHz. The interface includes various control panels for frequency, resolution, and measurement parameters.

Agilent Spectrum Analyzer - Occupied BW

R: RF 50 Ω AC
 CENTER FREQ 5.31000000 GHz
 #IFGain: Low
 #Atten: 30 dB

SENSE: [INT] SOURCE OFF
 ALIGN: AUTO
 CENTER FREQ: 5.310000000 GHz
 Trig: Free Run
 Avg/Hold: 500/500

11:42:16 AM Apr 16, 2026
 Radio Std: None
 Radio Device: BTS

Ref Offset 10.38 dB
 Ref 20.00 dBm
 Mkr1 5.3132 GHz
 -5.0452 dBm

Center 5.31 GHz
 #Res BW 390 kHz
 #VBW 1.2 MHz
 Span 80 MHz
 Sweep 1 ms

Occupied Bandwidth	Total Power	11.6 dBm
35.826 MHz		
Transmit Freq Error	-12.363 kHz	OBW Power 99.00 %
x dB Bandwidth	39.78 MHz	x dB -26.00 dB

Frequency
 Center Freq
 5.31000000 GHz
 CF Step
 8.000000 MHz
 Auto
 Mar
 Freq Offset
 0 Hz

MSG STATUS

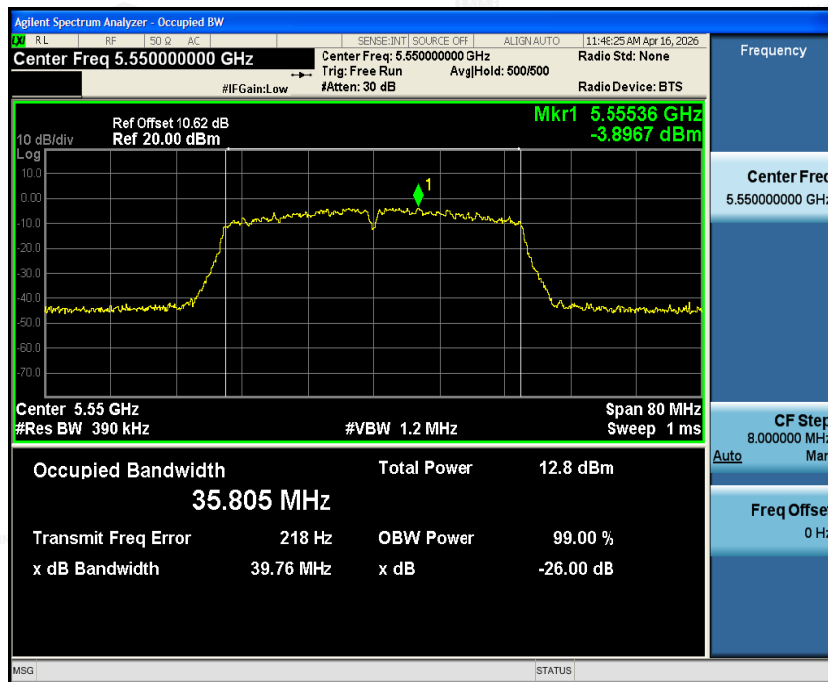
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5470~5725MHz

Low Channel



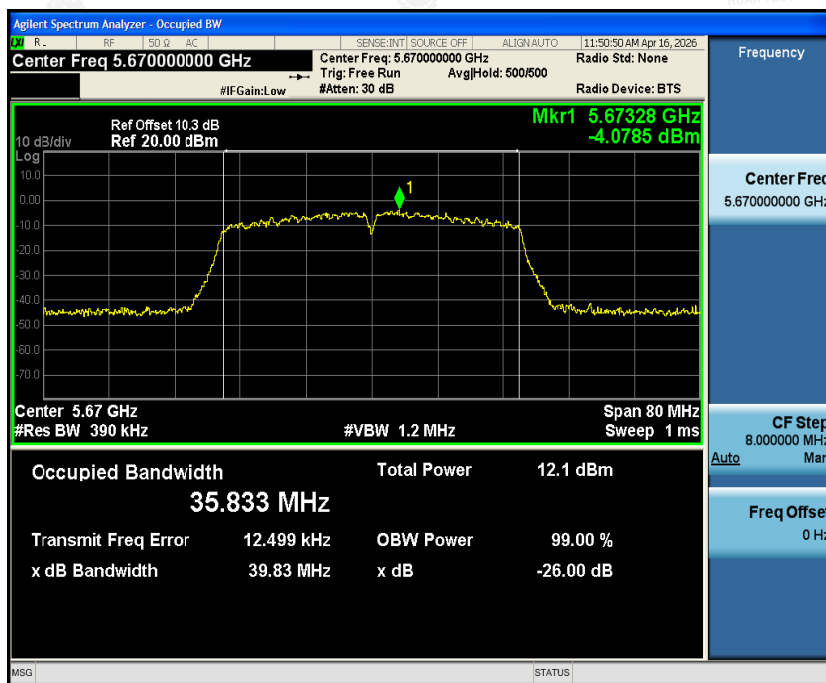
Mid Channel



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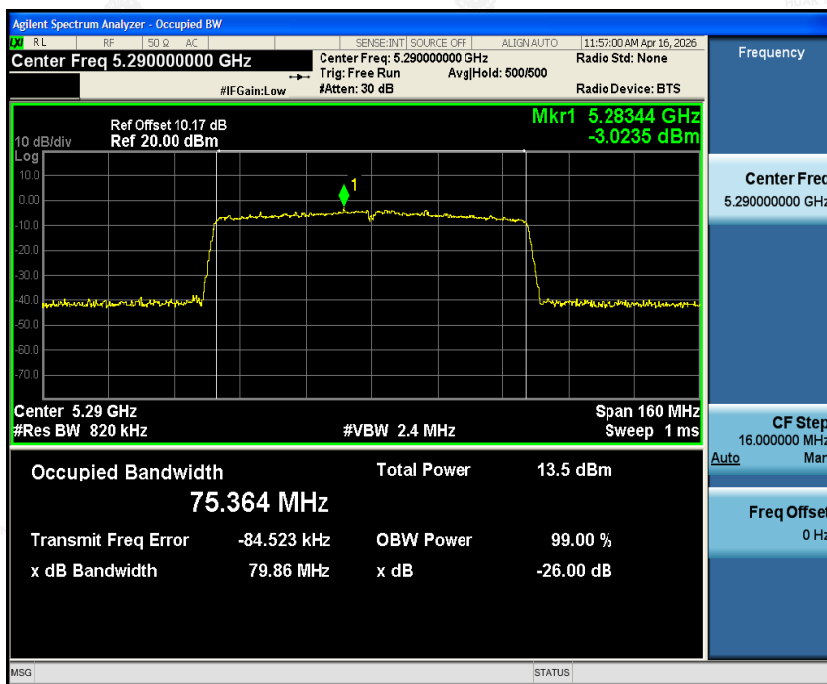
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High Channel



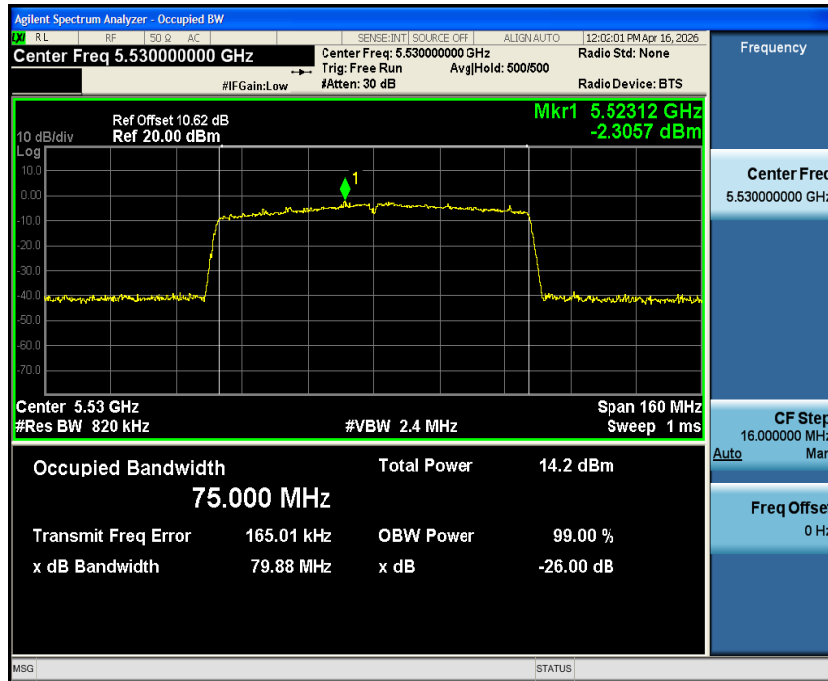
IEEE802.11ac HT80 mode

5250-5350MHz

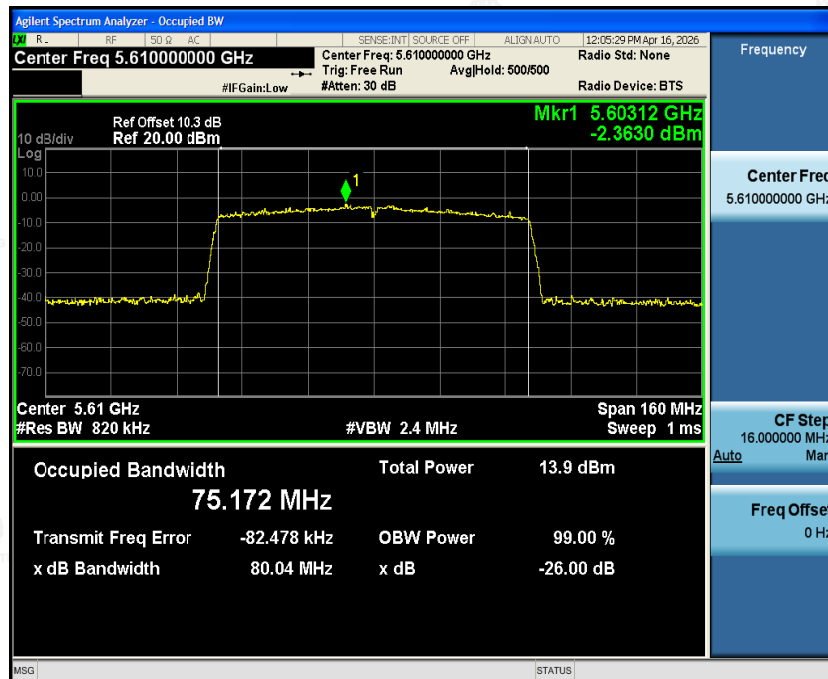


5470-5725MHz

Low Channel



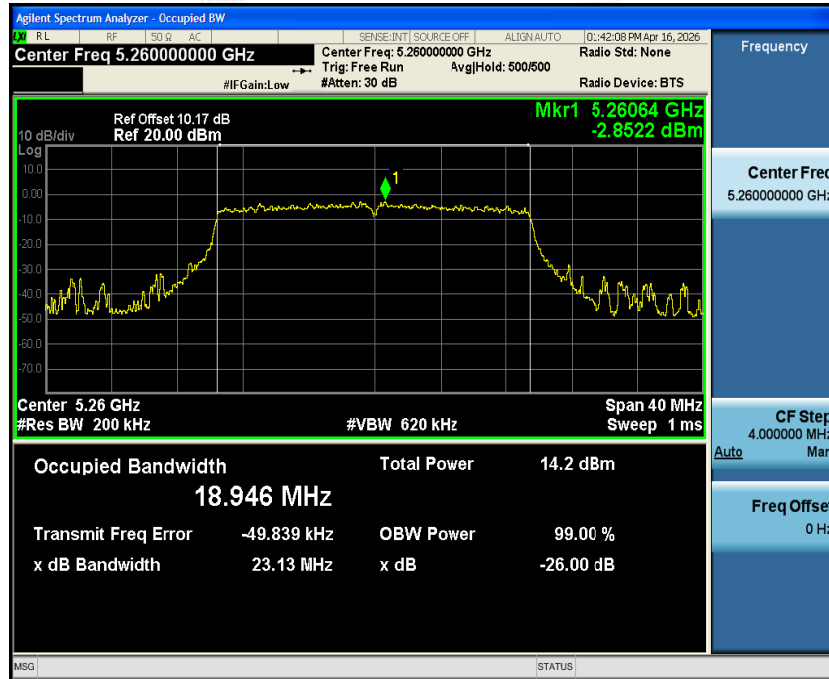
High Channel



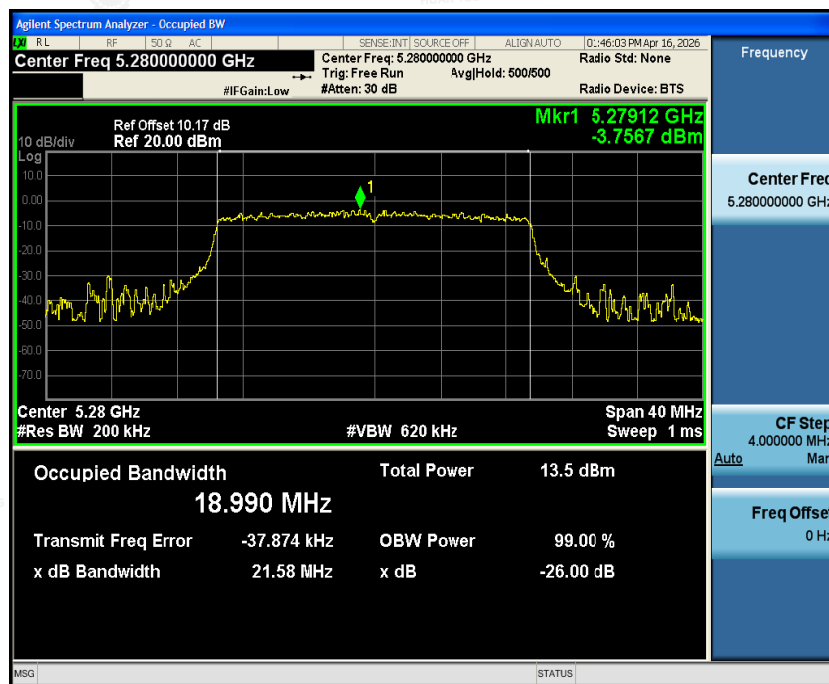
IEEE802.11ax HE20 mode

5250~5350MHz

Low Channel



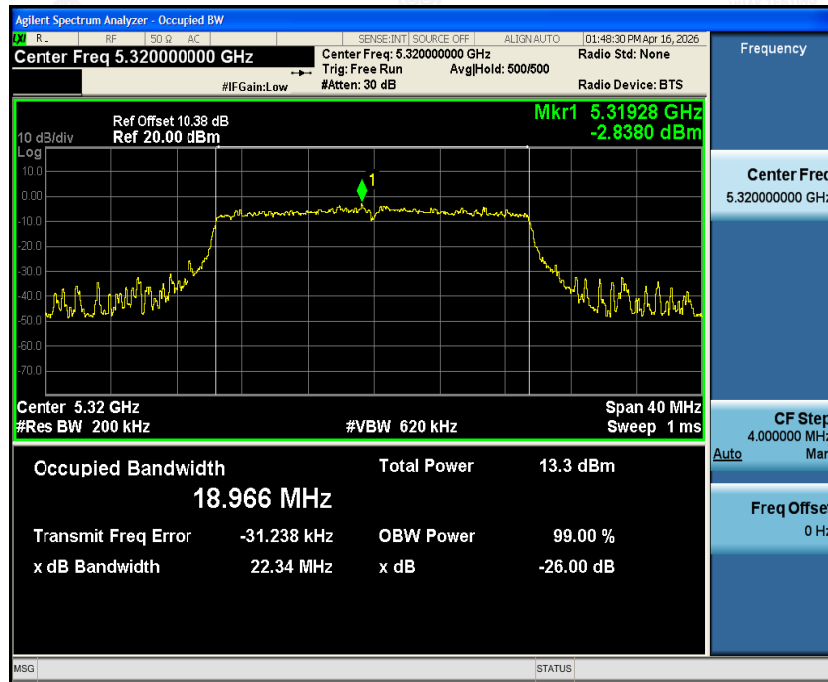
Mid Channel



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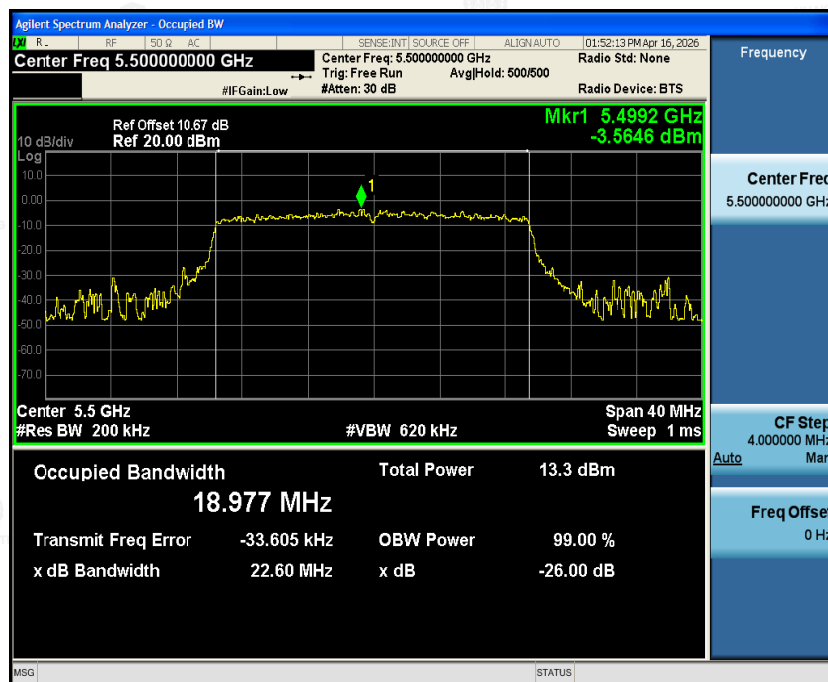
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High Channel

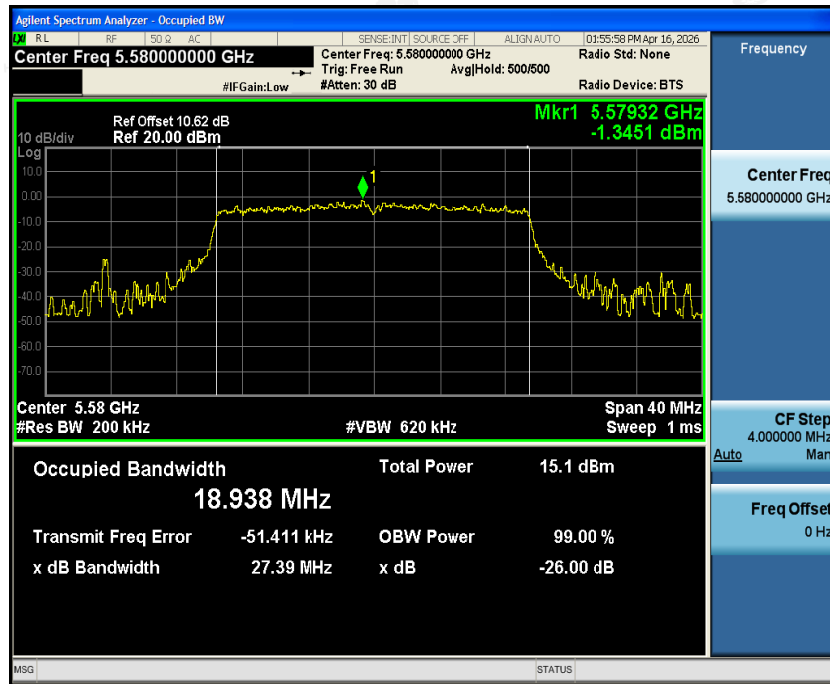


5470~5725MHz

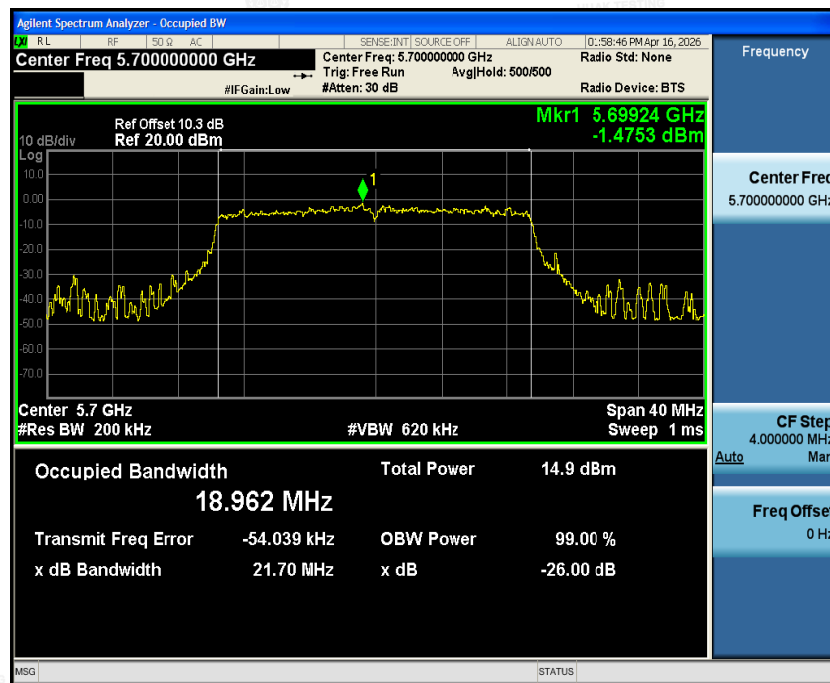
Low Channel



Mid Channel



High Channel



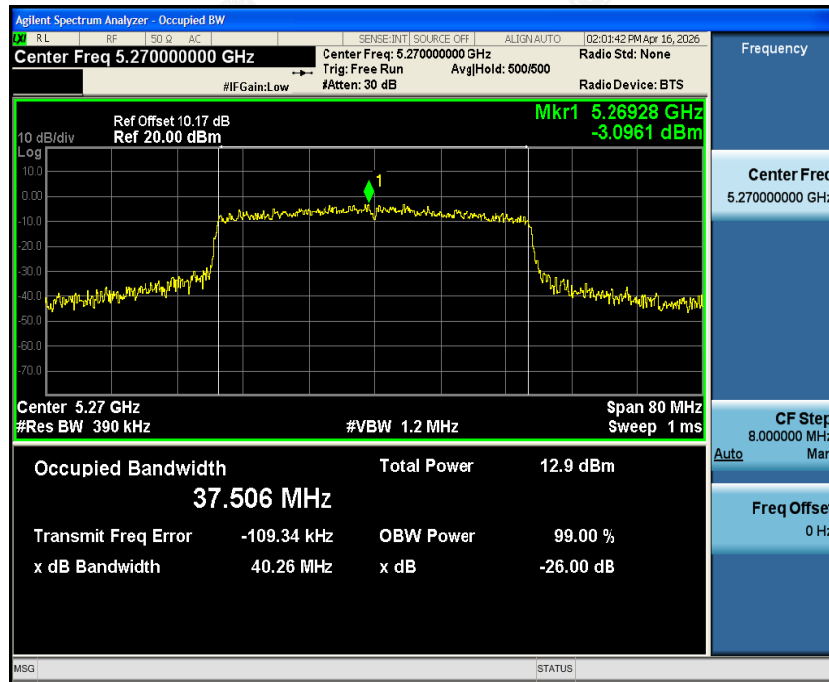


HUAKE TESTING

IEEE802.11ax HE40 mode

5250~5350MHz

Low Channel



High Channel

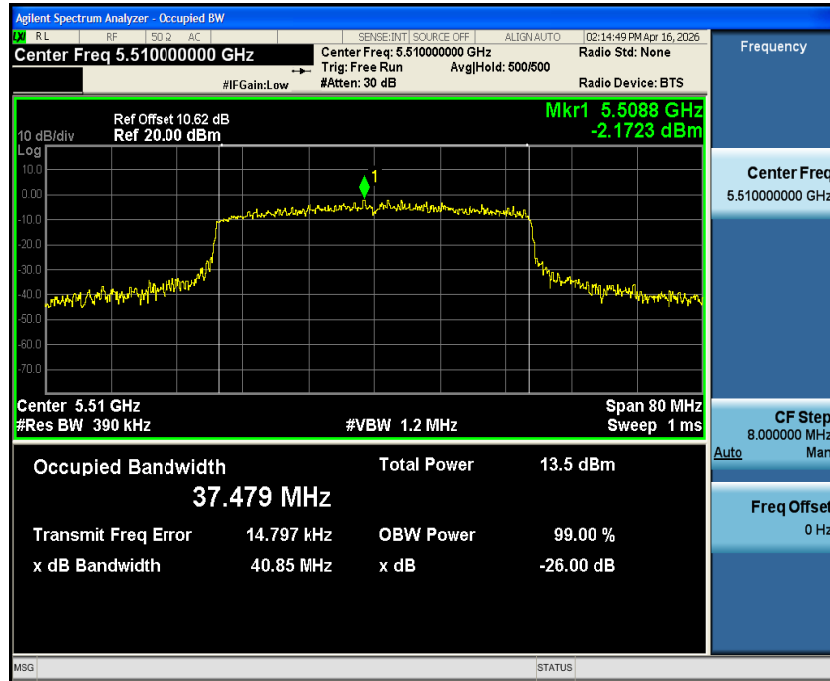


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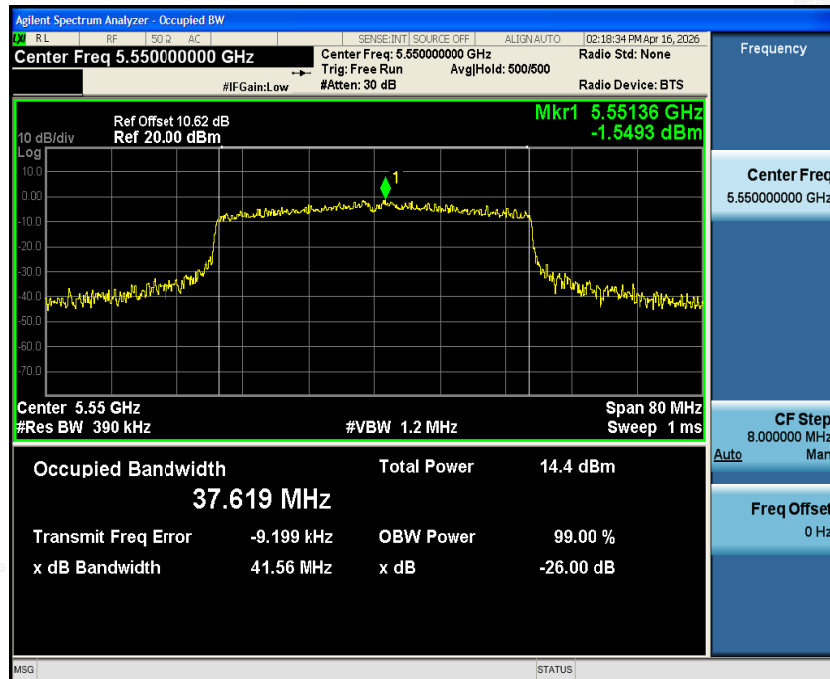
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5470~5725MHz

Low Channel

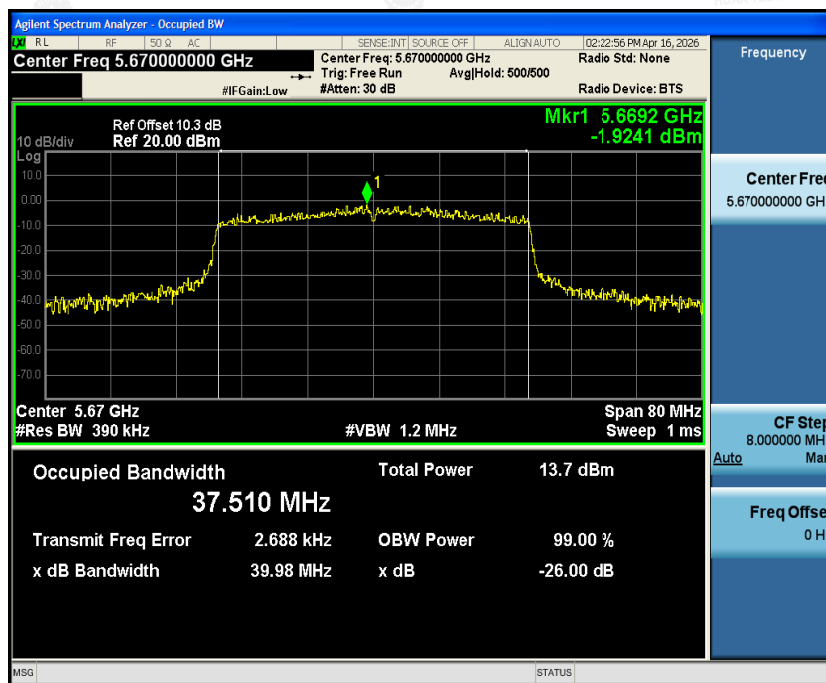


Mid Channel



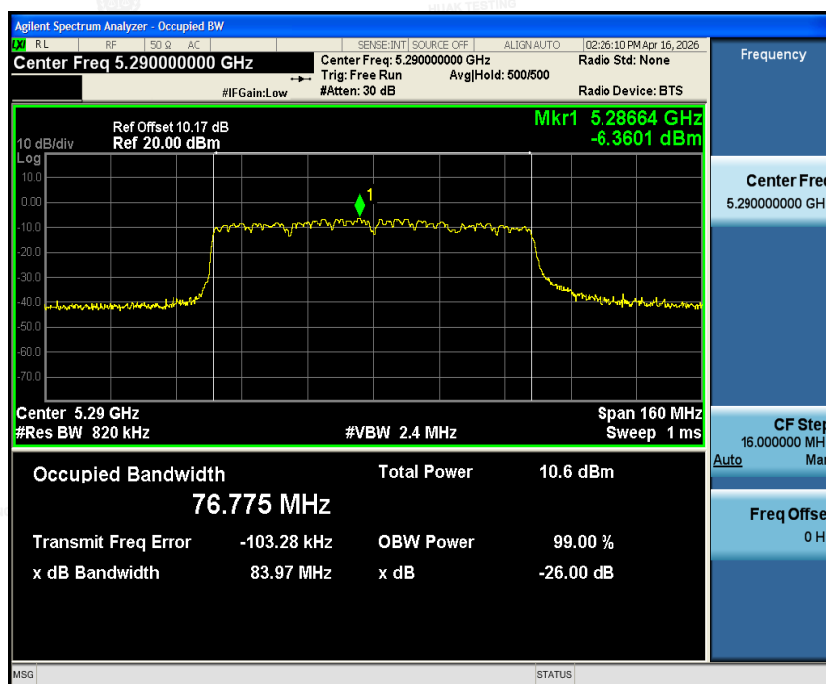
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High Channel



IFFE802.11ax HF80 mode

5250-5350MHz

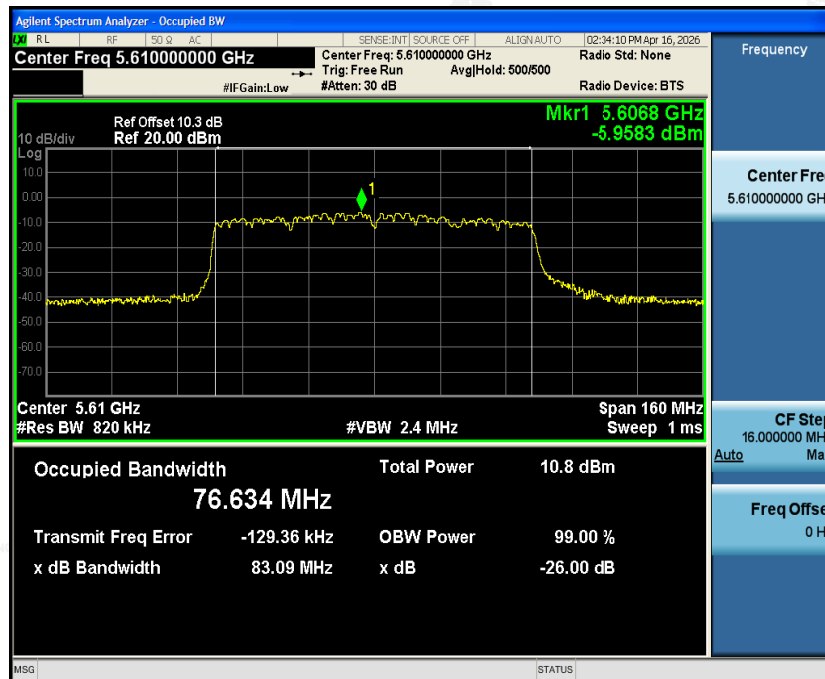


5470-5725MHz

Low Channel



High Channel



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Antenna 2

Test mode: IEEE802.11a mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5260	24.26	17.140
Mid	5280	24.13	17.205
High	5320	24.15	17.130

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5500	24.28	17.130
Mid	5580	24.79	17.170
High	5700	23.94	17.084

Test mode: IEEE802.11n HT20 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5260	25.23	17.972
Mid	5280	25.74	18.005
High	5320	24.93	17.947

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5500	25.03	17.967
Mid	5580	24.93	17.958
High	5700	25.04	17.953

Test mode: IEEE802.11n HT40 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5270	39.77	35.884
High	5310	39.88	35.830

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5510	39.55	35.826
Mid	5550	39.75	35.834
High	5670	39.87	35.842



HUAKE TESTING

Test mode: IEEE802.11ac HT20 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5260	25.46	17.961
Mid	5280	24.12	17.981
High	5320	24.56	17.947

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5500	24.82	17.964
Mid	5580	24.77	17.965
High	5700	25.61	17.962

Test mode: IEEE802.11ac HT40 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5270	39.88	35.837
High	5310	39.77	35.860

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5510	39.57	35.874
Mid	5550	39.79	35.832
High	5670	39.59	35.879

Test mode: IEEE802.11ac HT80 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
--	5290	79.96	75.417

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5530	80.01	75.044
High	5610	80.12	75.240

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Test mode: IEEE802.11ax HE20 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5260	22.07	18.960
Mid	5280	22.45	18.980
High	5320	21.22	18.961

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5500	21.52	18.951
Mid	5580	23.43	18.975
High	5700	21.49	18.996

Test mode: IEEE802.11ax HE40 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5270	40.25	37.622
High	5310	40.19	37.494

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5510	41.55	37.615
Mid	5550	39.68	37.459
High	5670	39.65	37.473

Test mode: IEEE802.11ax HE80 mode

5250~5350MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
--	5290	83.49	76.796

5470~5725MHz

Channel	Frequency(MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5530	83.38	76.562
High	5610	82.81	76.596



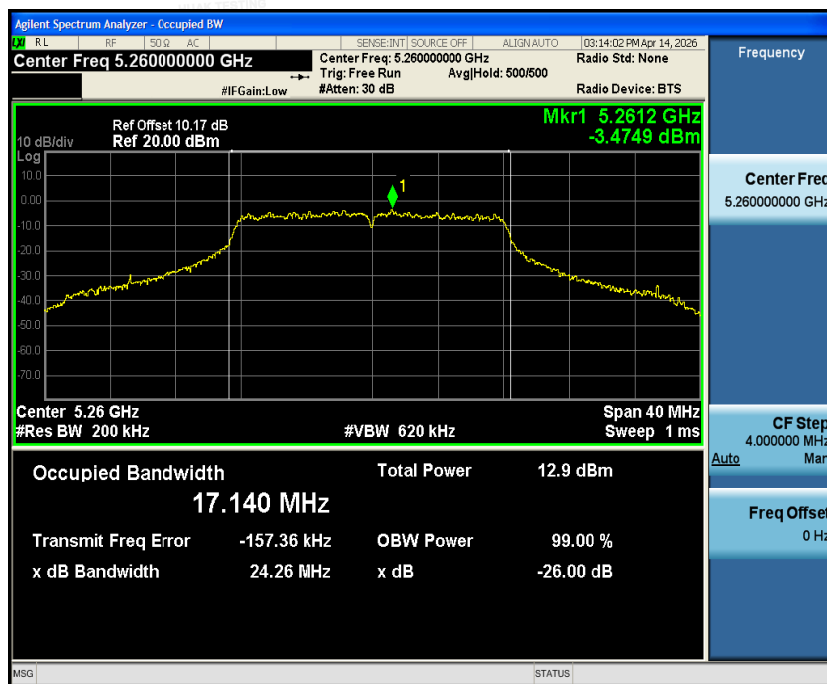
HUAKE TESTING

Test Plot

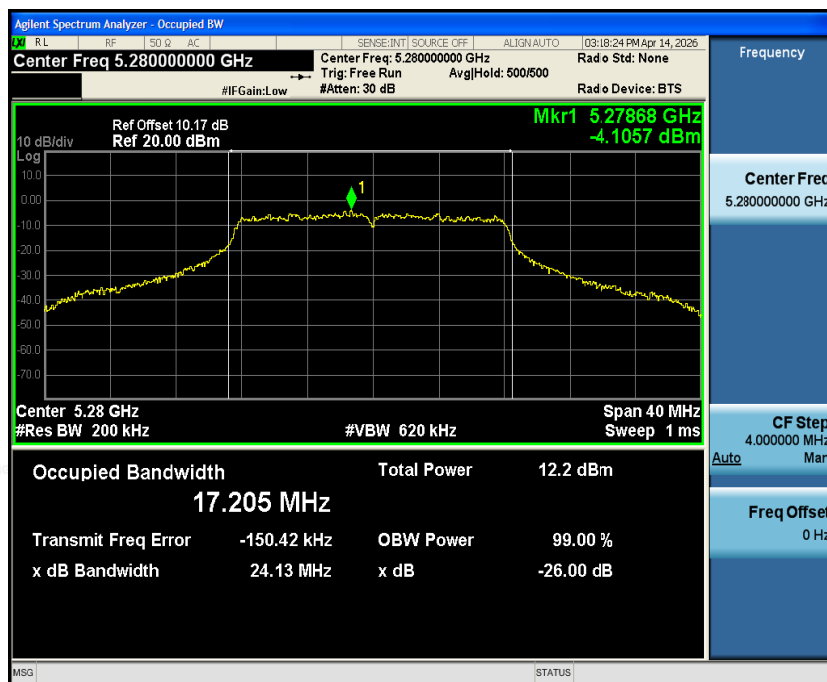
IEEE802.11a mode:

5250~5350MHz

Low Channel



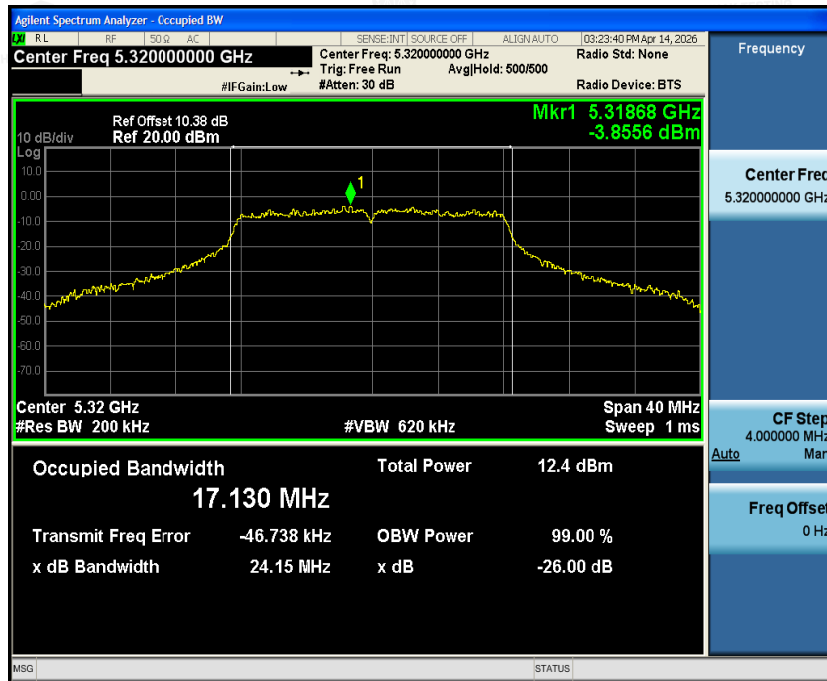
Mid Channel



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High Channel



5470~5725MHz

Low Channel



Mid Channel



High Channel





HUAKE TESTING

IEEE802.11n HT20 mode

5250~5350MHz

Low Channel

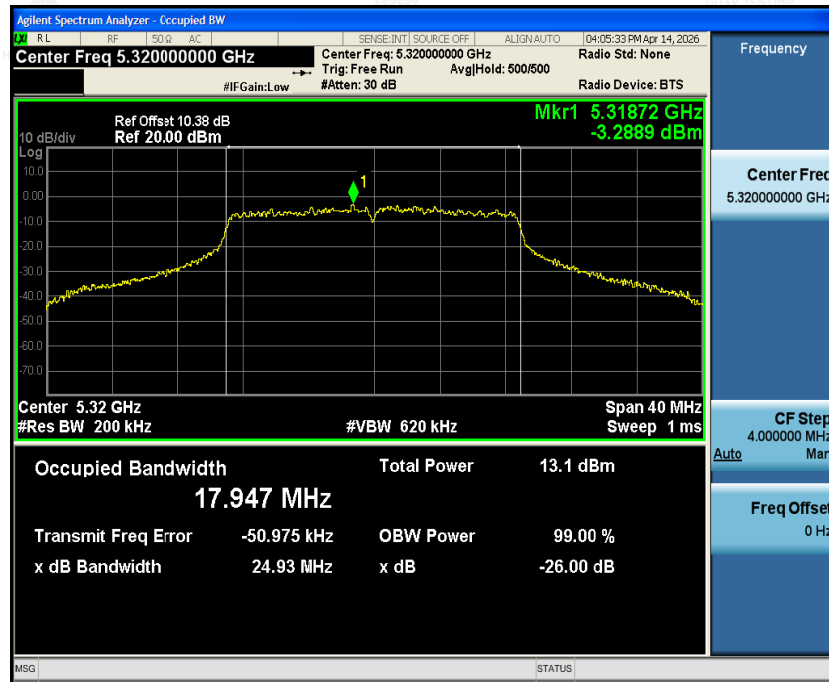


Mid Channel



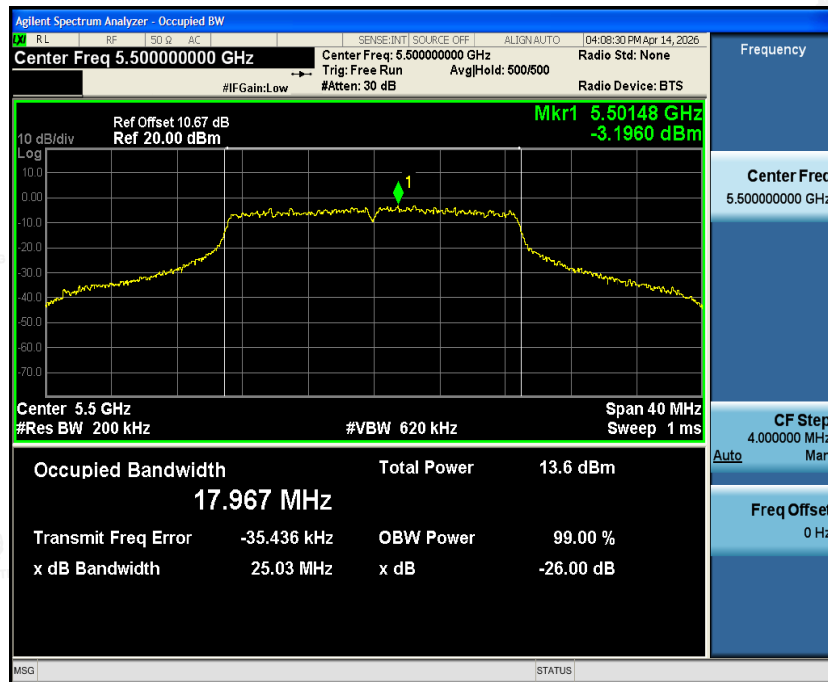
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High Channel

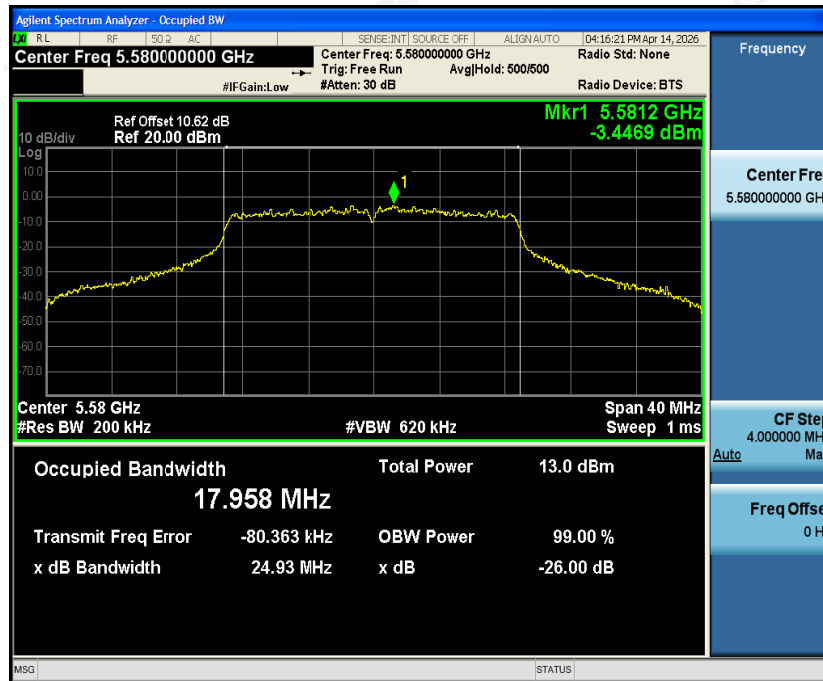


5470~5725MHz

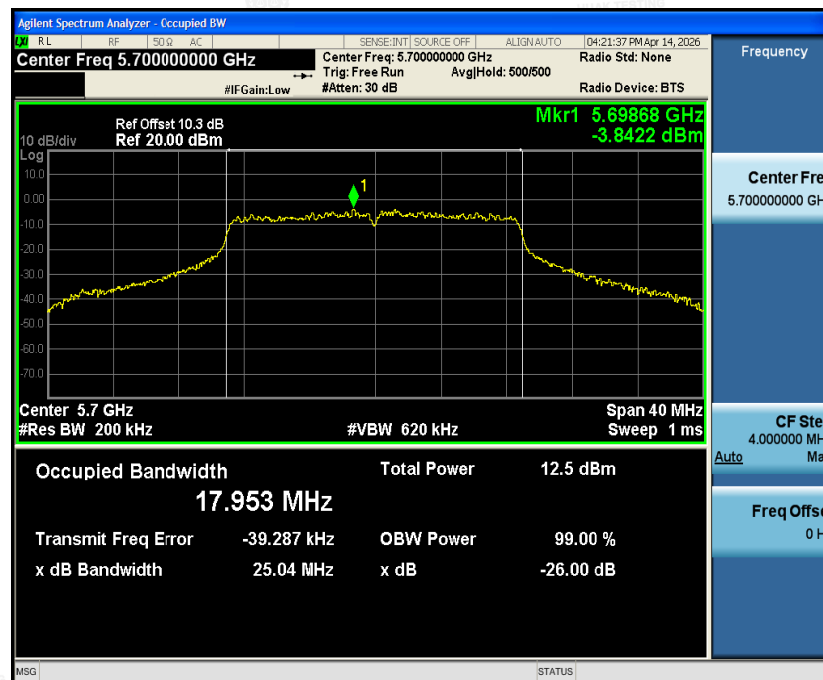
Low Channel



Mid Channel



High Channel



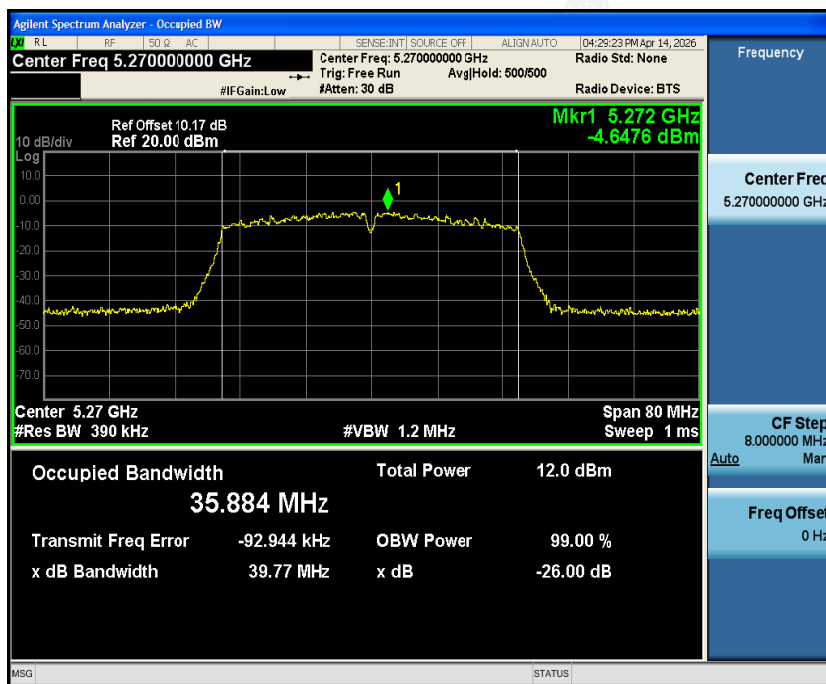


HUAKE TESTING

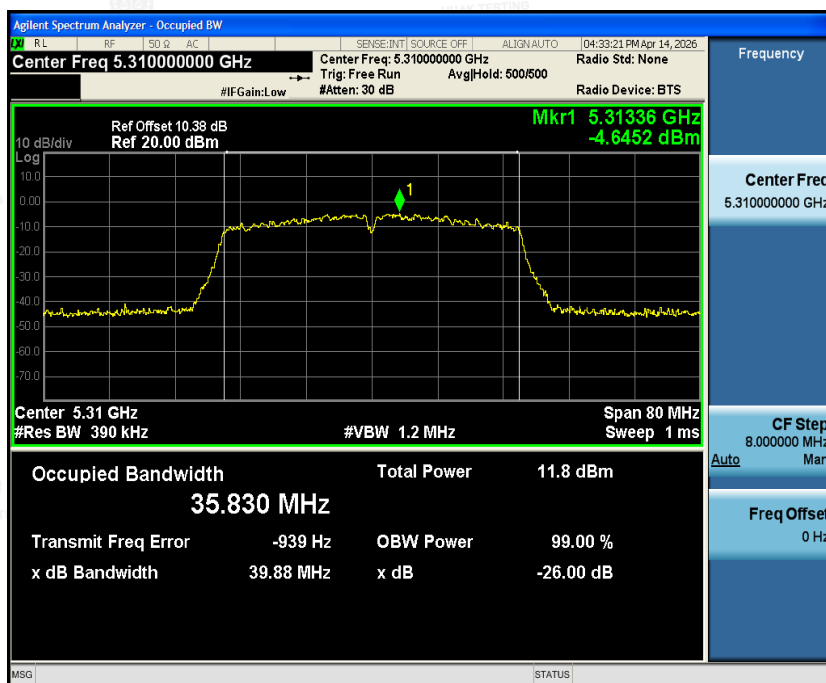
IEEE802.11n HT40 mode

5250~5350MHz

Low Channel

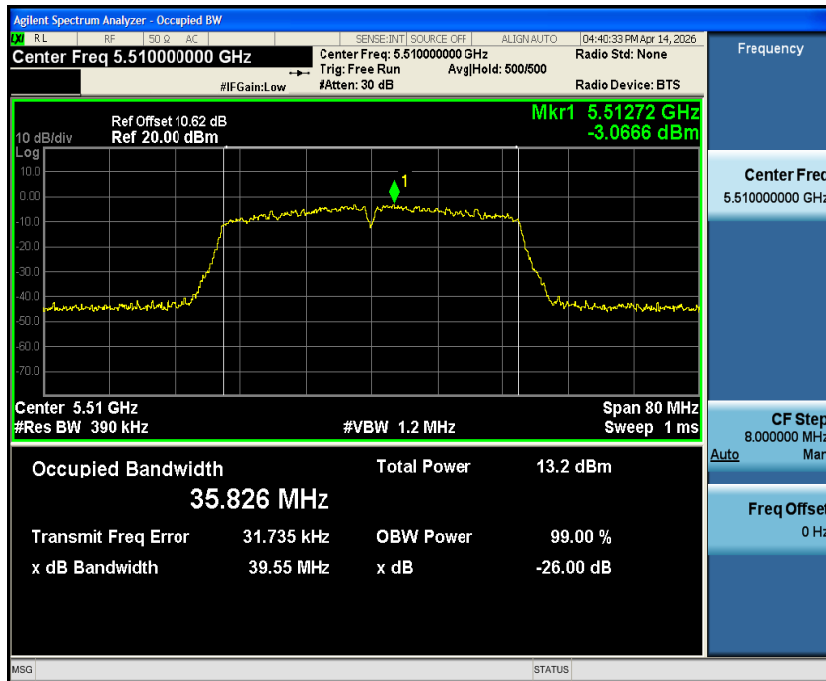


High Channel



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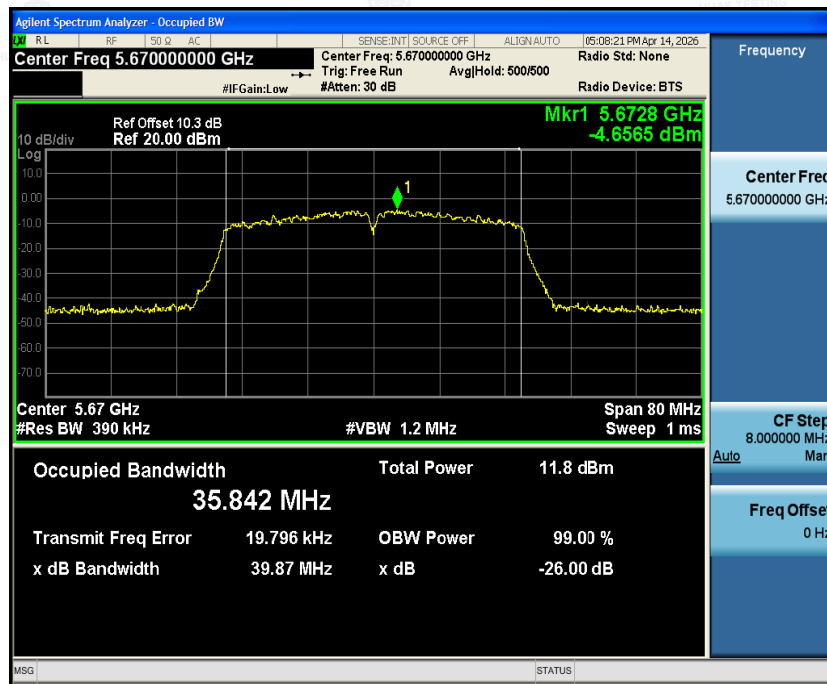
Low Channel



Mid Channel



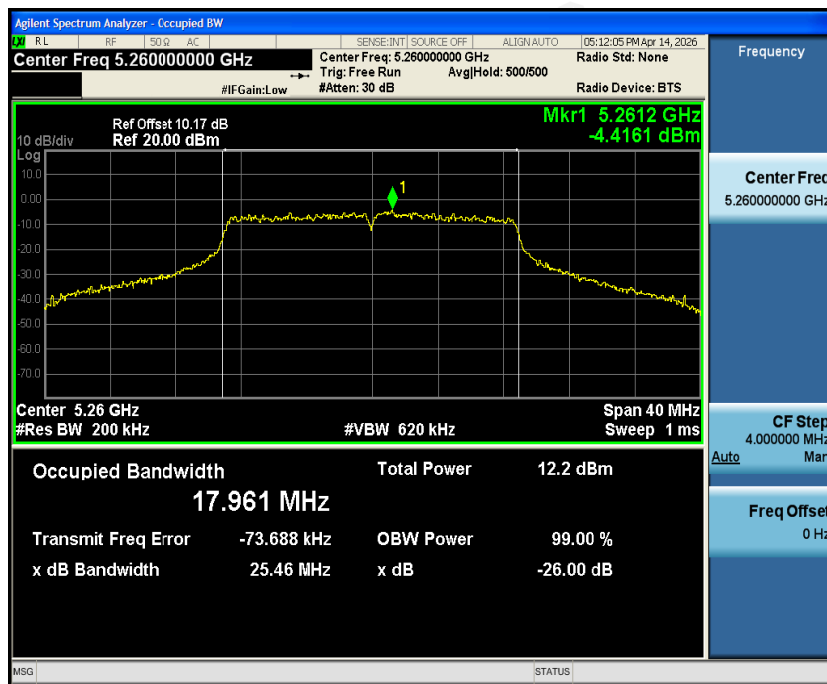
High Channel





5250~5350MHz

Low Channel



Mid Channel

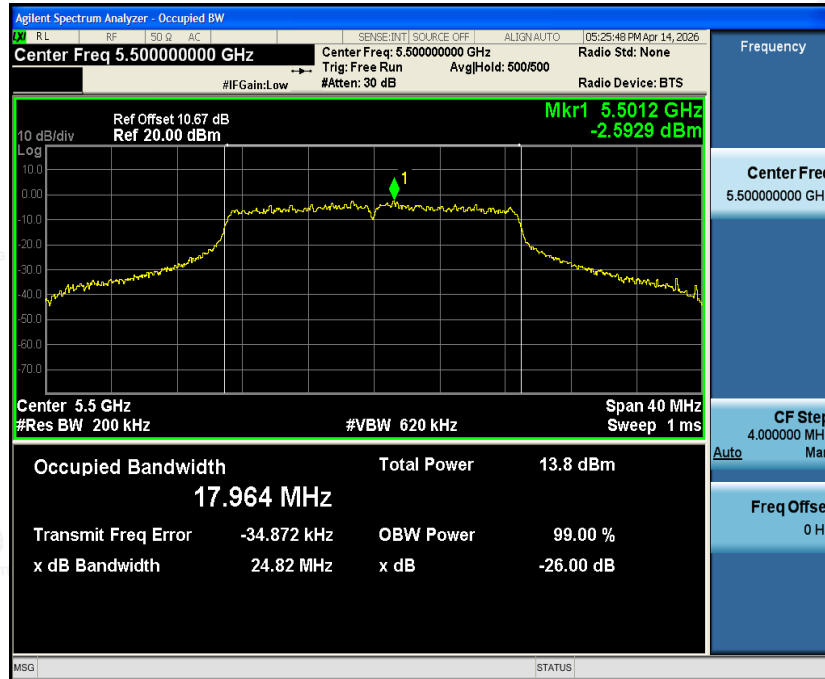


High Channel

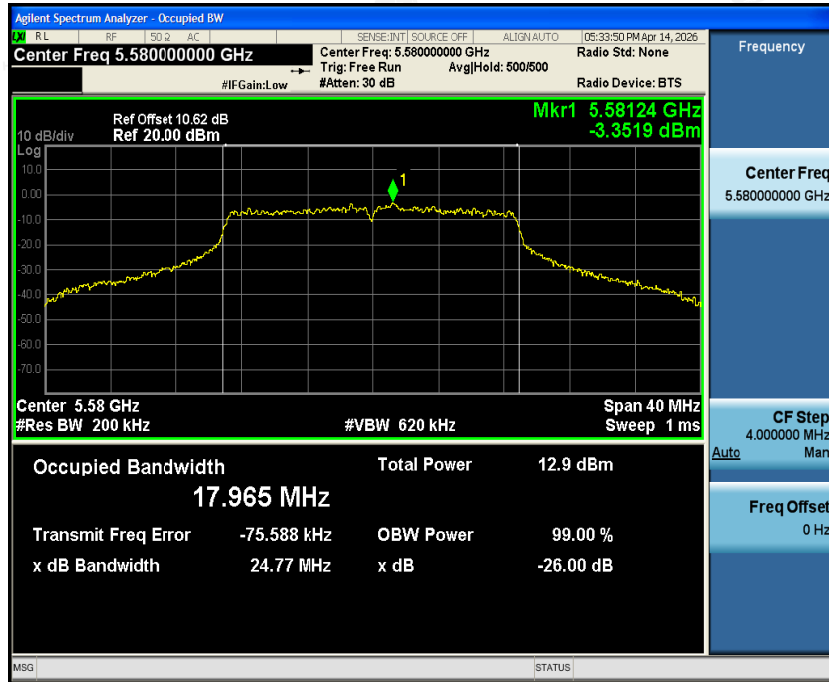


5470~5725MHz

Low Channel



Mid Channel



High Channel



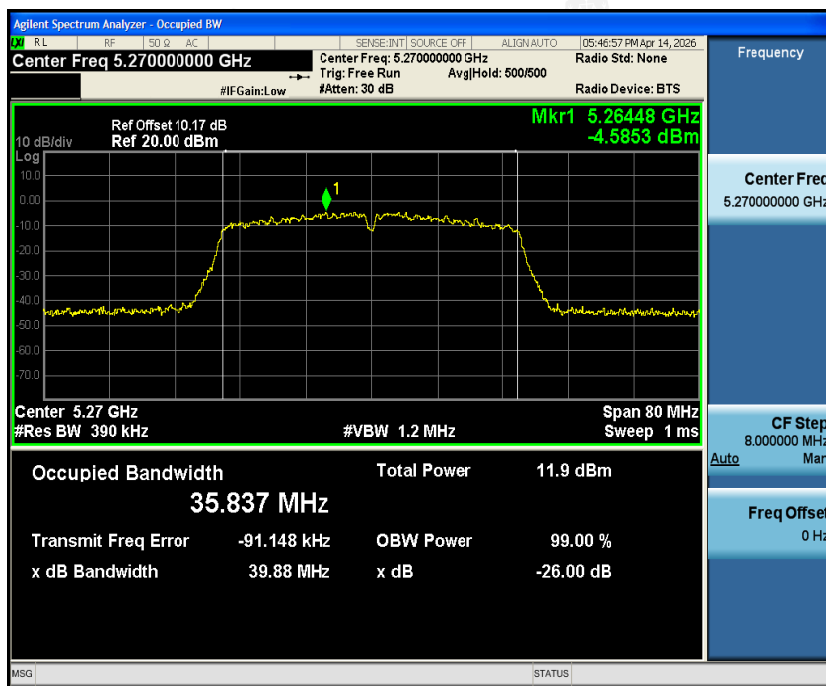


HUAKE TESTING

IEEE802.11ac HT40 mode

5250~5350MHz

Low Channel



High Channel

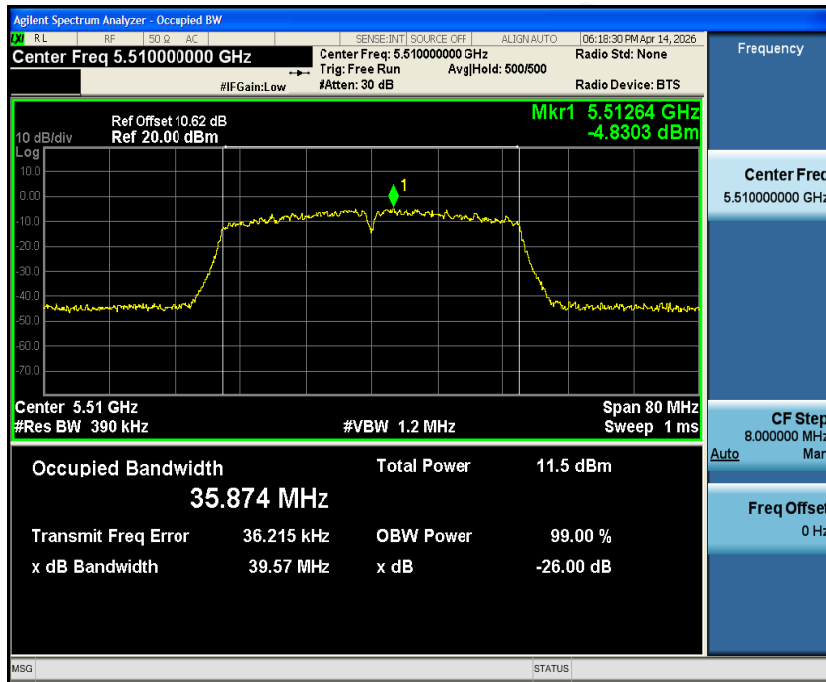


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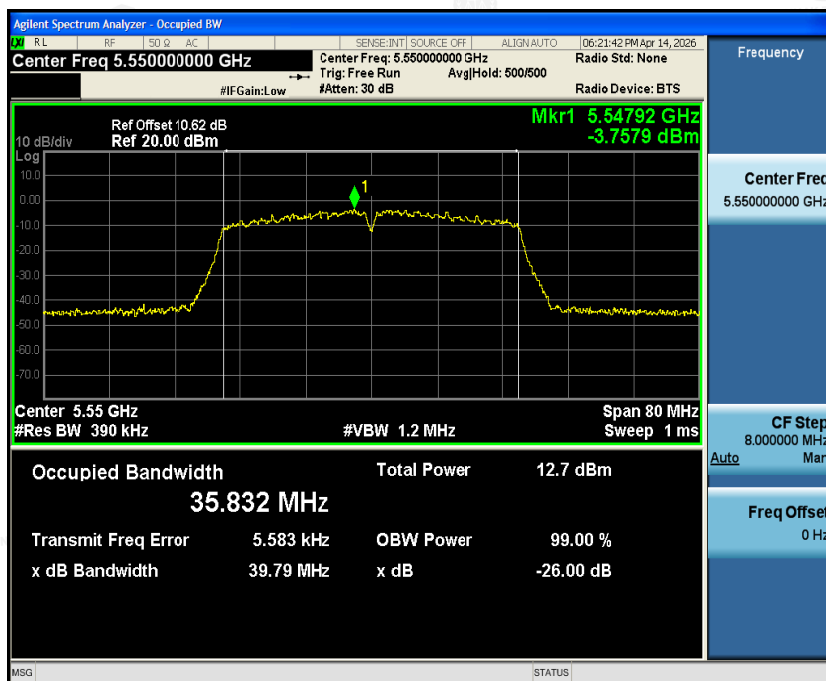
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5470~5725MHz

Low Channel

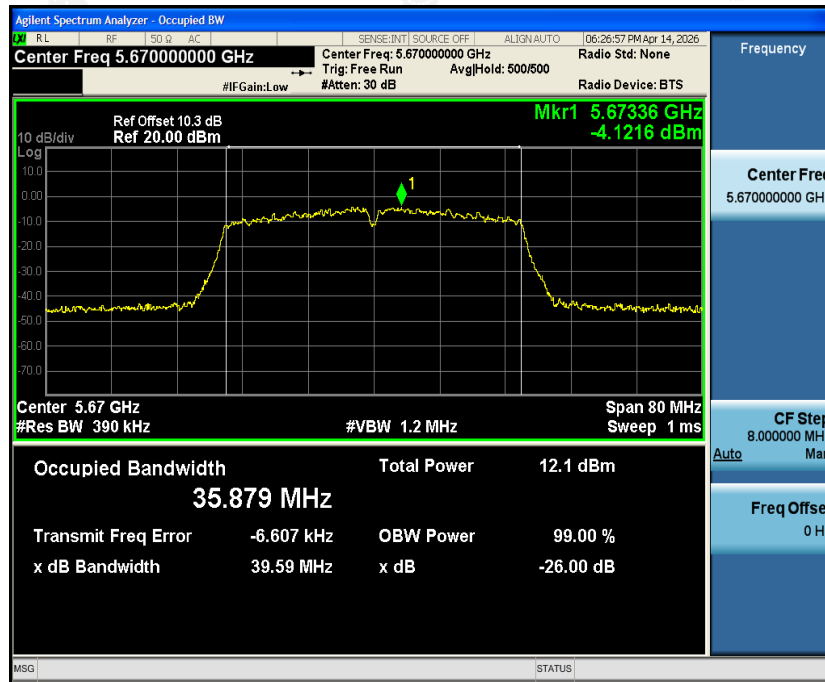


Mid Channel



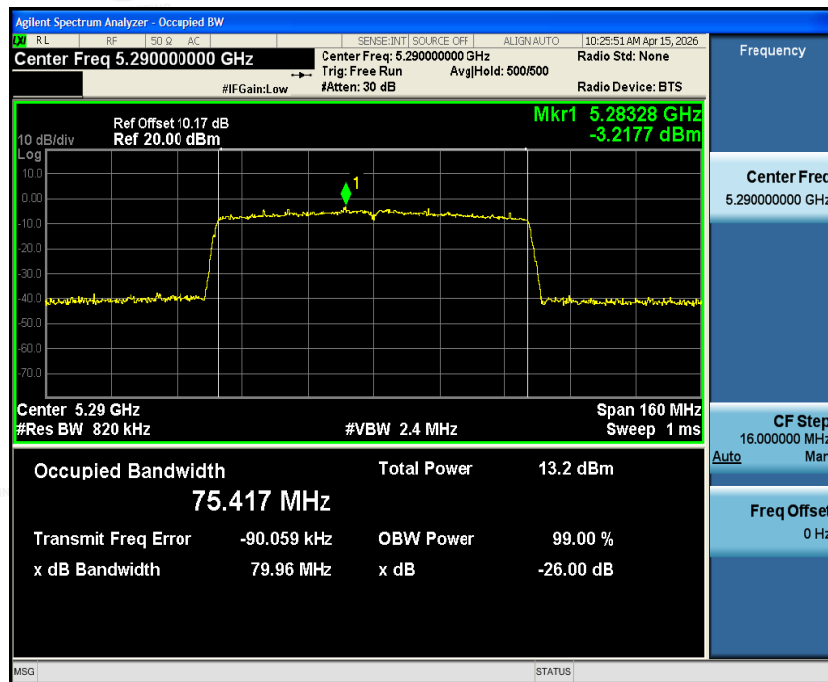
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High Channel



IEEE802.11ac HT80 mode

5250-5350MHz



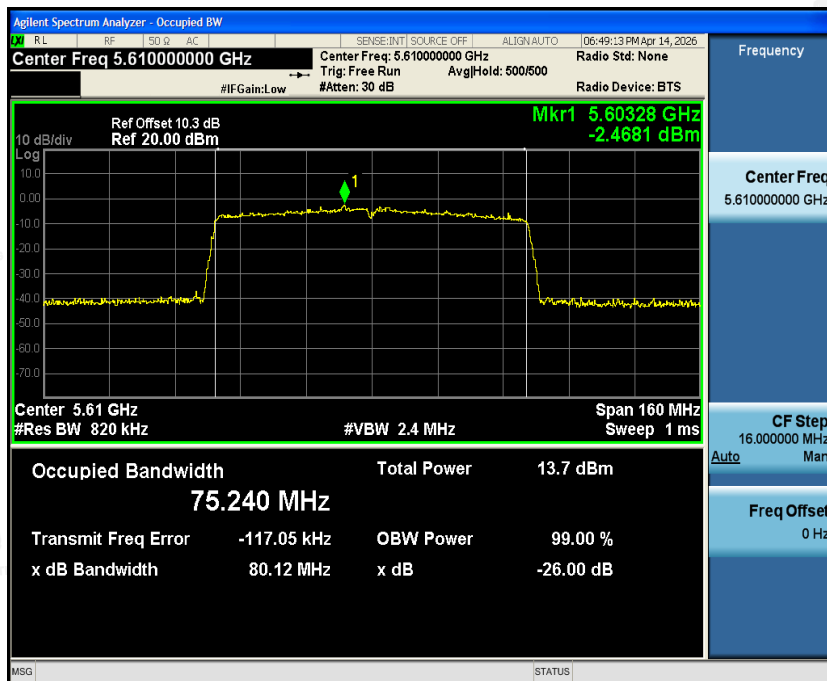
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Low Channel



High Channel



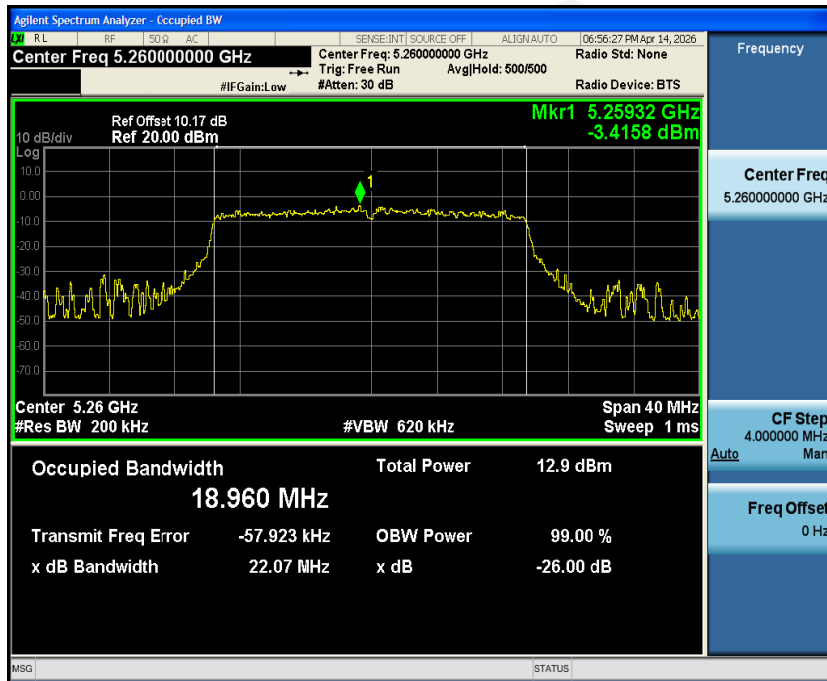


HUAKE TESTING

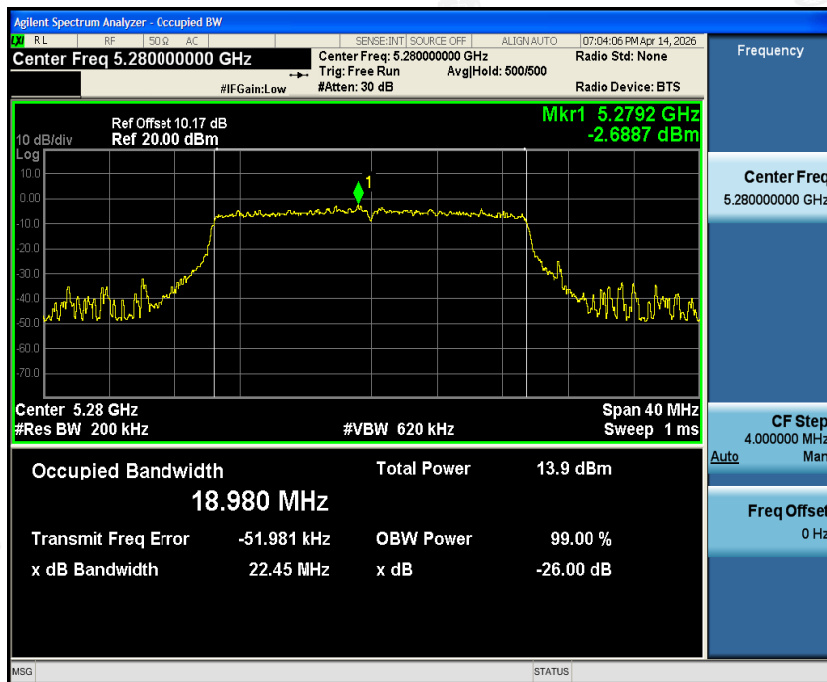
IEEE802.11ax HE20 mode

5250~5350MHz

Low Channel



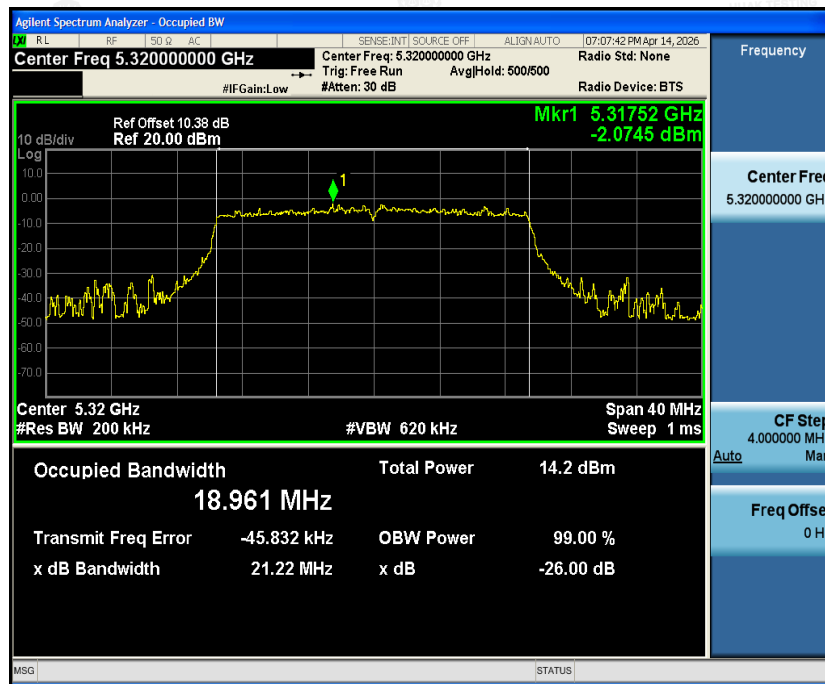
Mid Channel



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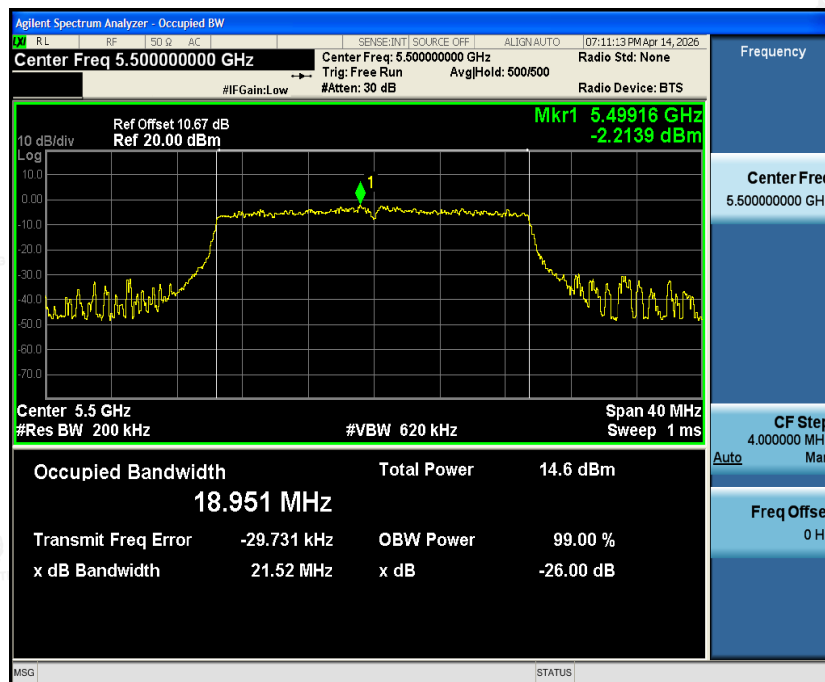
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High Channel



5470~5725MHz

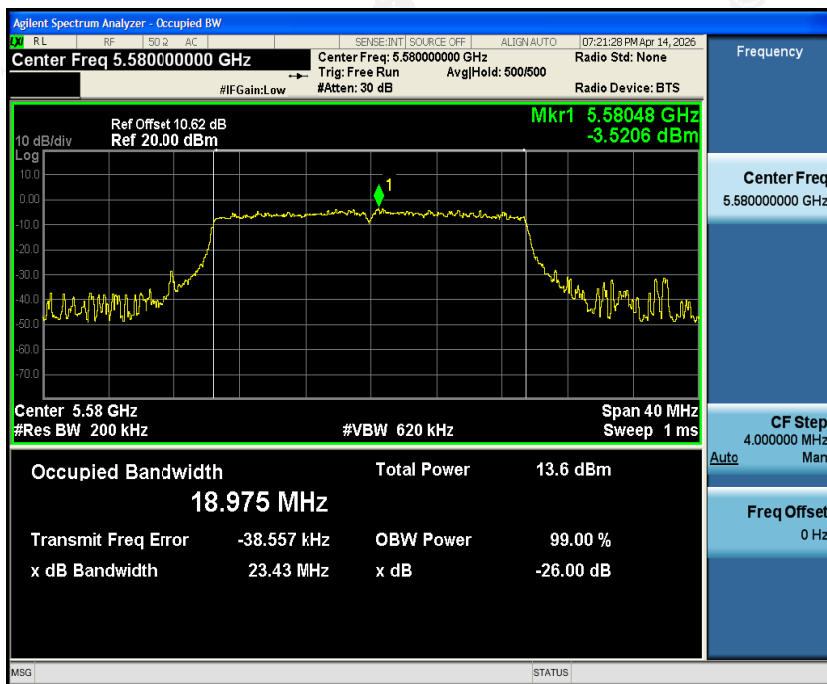
Low Channel



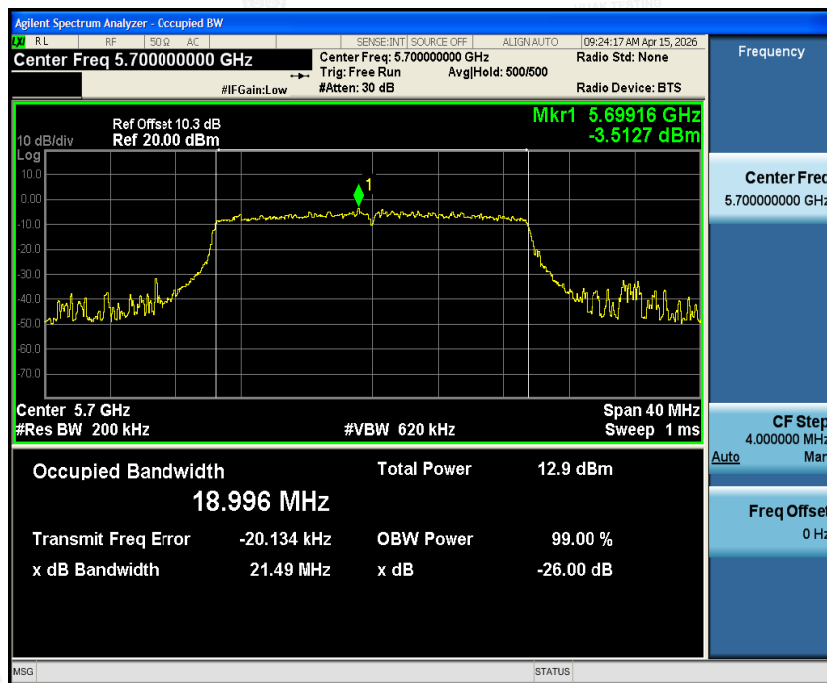
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Mid Channel



High Channel



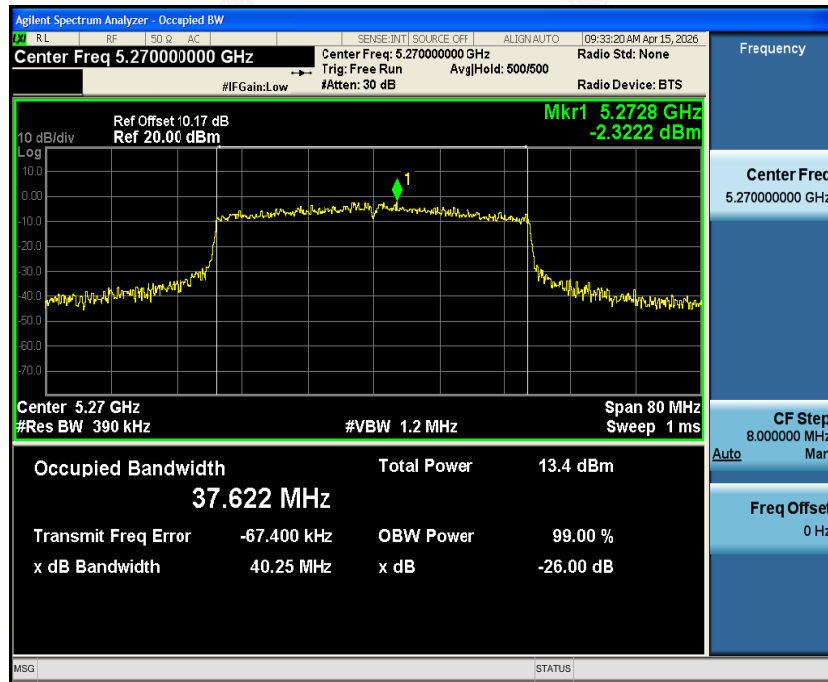


HUAKE TESTING

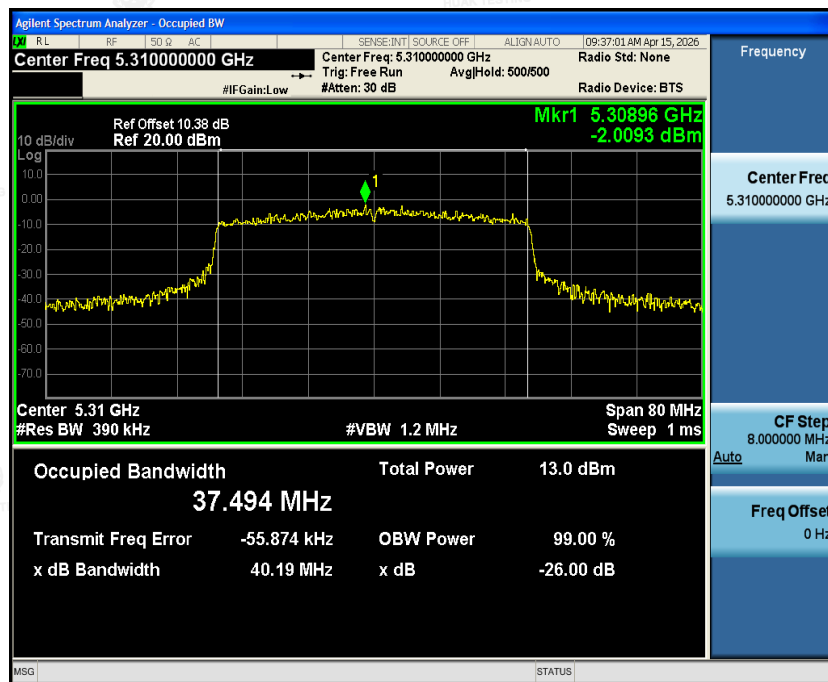
IEEE802.11ax HE40 mode

5250~5350MHz

Low Channel



High Channel

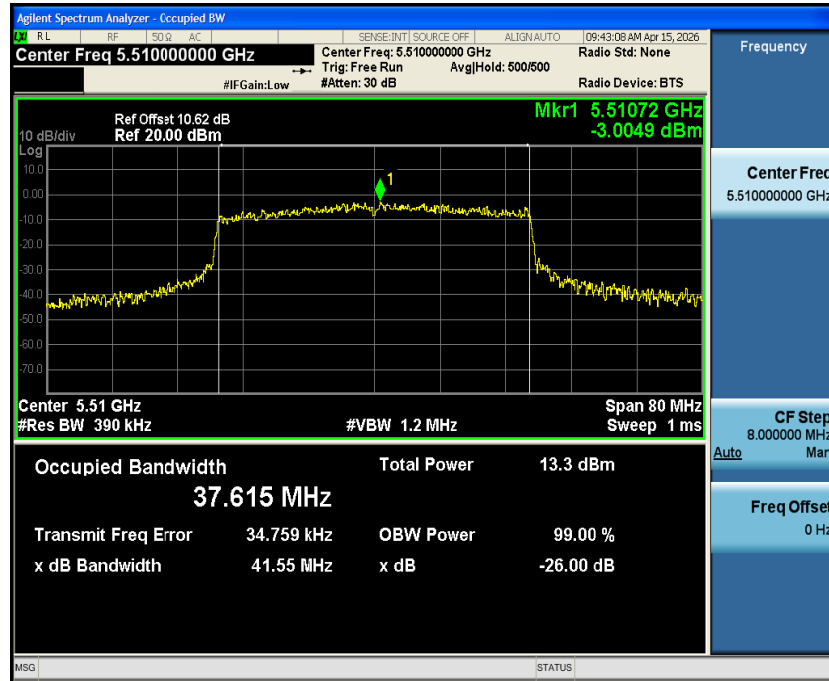


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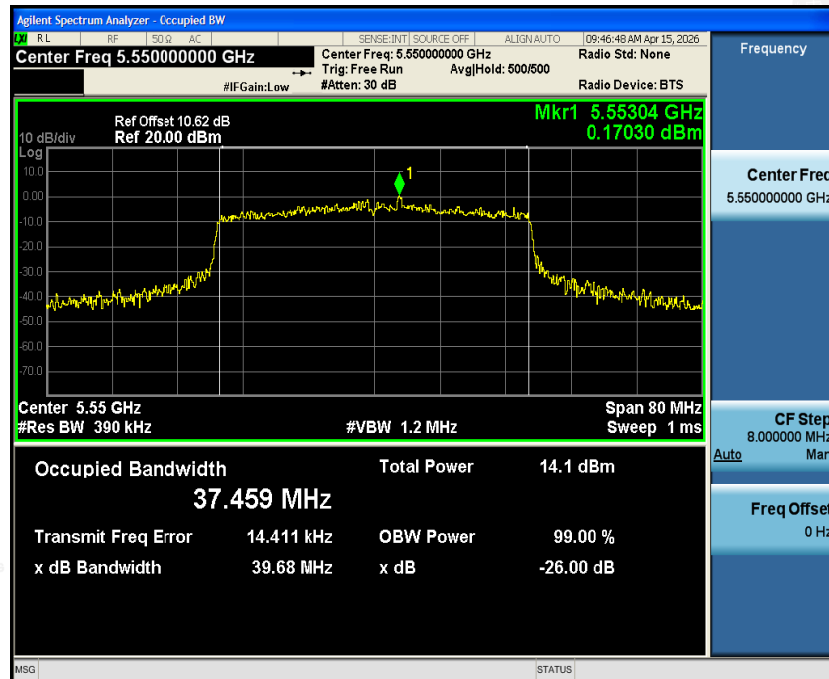
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5470~5725MHz

Low Channel

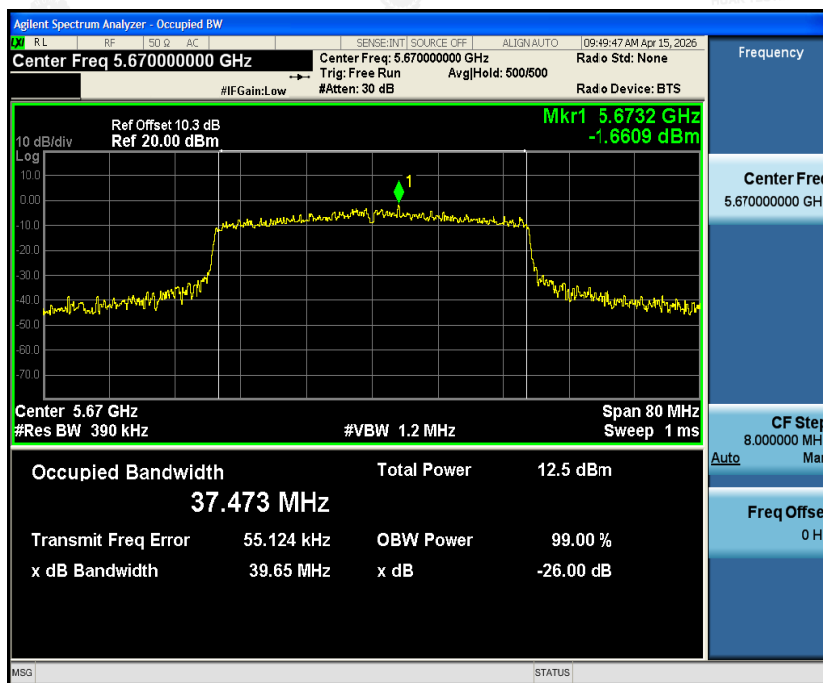


Mid Channel



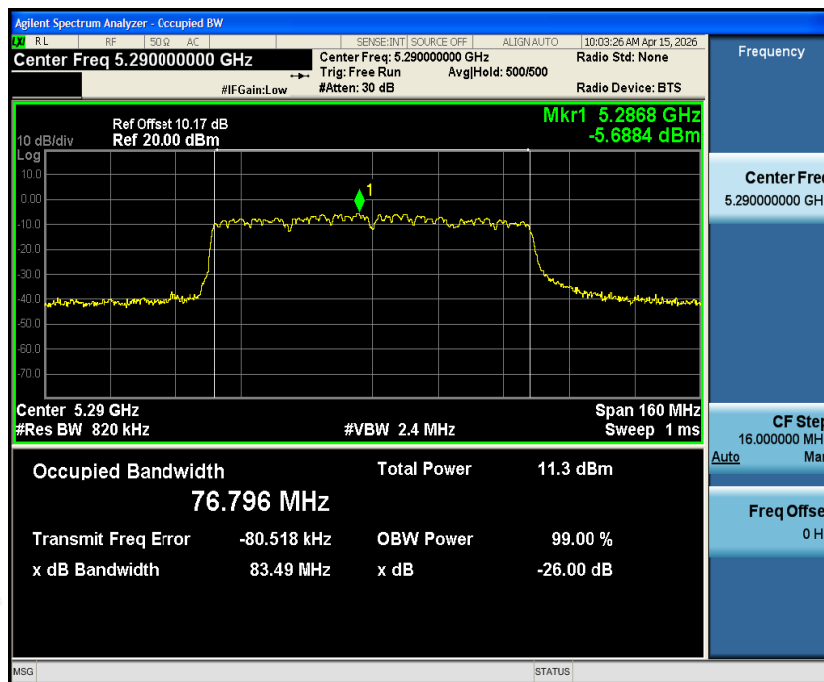
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High Channel



IEEE802.11ax HE80 mode

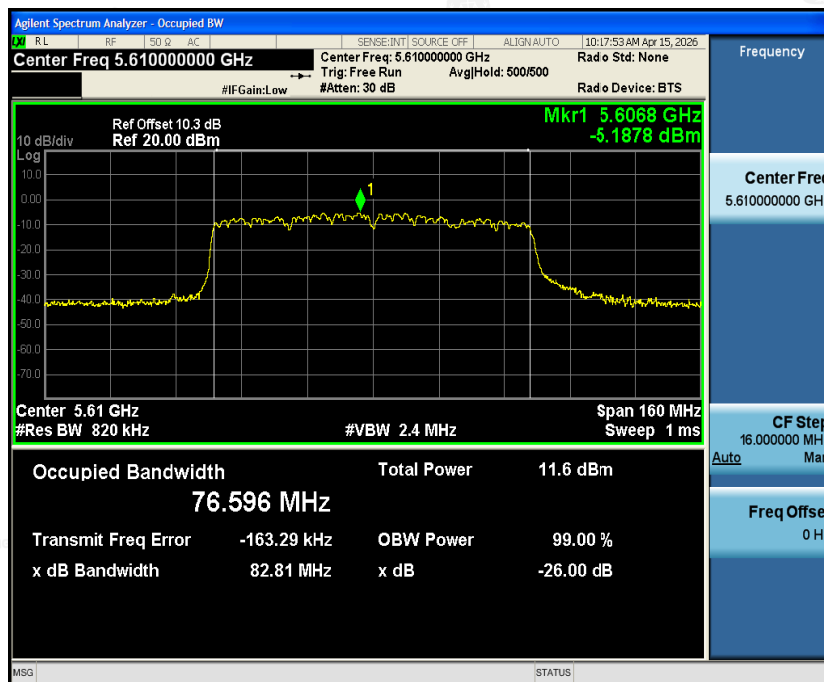
5250-5350MHz



Low Channel



High Channel



6.2 Maximum Conducted Output Power

Limit

According to §15.407(a),

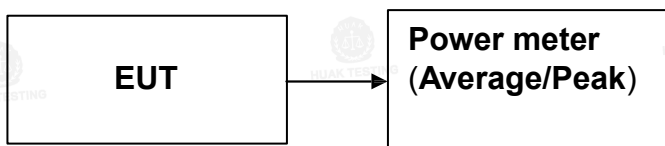
(iv) For the 5.25-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250mW or $11\text{dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

If transmitting antennas of directional gain greater than 6dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W

The peak power shall not exceed the limit as follow:

Test Configuration



The EUT was connected to a spectrum analyzer through a 50Ω RF cable.

Test Procedure

The testing follows Method PM of FCC KDB789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF peak power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.

Test Results

No non-compliance noted

Test Results

No non-compliance noted

Test Data

Test mode: IEEE802.11a mode

5250~5350MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5260	6.14	6.49	/	24
Mid	5280	5.92	5.47	/	24
High	5320	6.03	5.84	/	24

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5500	5.92	6.32	/	24
Mid	5580	6.71	6.75	/	24
High	5700	6.63	5.36	/	24

Test mode: IEEE802.11n HT20 mode

5250~5350MHz

Channel	Frequency(MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5260	5.22	5.24	8.24	24
Mid	5280	5.78	6.17	8.99	24
High	5320	5.49	6.39	8.97	24

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5500	5.36	6.92	9.22	24
Mid	5580	7.29	6.21	9.79	24
High	5700	7.01	5.97	9.53	24

Test mode: IEEE802.11n HT40 mode

5250~5350MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5270	5.58	5.62	8.61	24
Mid	5310	5.99	5.14	8.60	24

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5510	6.18	6.65	9.43	24
Mid	5550	6.32	6.18	9.26	24
High	5670	5.71	5.48	8.61	24

Test mode: IEEE802.11ac HT20 mode

5250~5350MHz

Channel	Frequency(MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5260	6.48	5.57	9.06	24
Mid	5280	5.75	6.19	8.99	24
High	5320	5.33	6.38	8.90	24

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5500	5.22	6.94	9.17	24
Mid	5580	5.09	6.20	8.69	24
High	5700	6.84	5.84	9.38	24



Test mode: IEEE802.11ac HT40 mode

5250~5350MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5270	5.73	5.31	8.54	24
Mid	5310	5.05	6.38	8.78	24

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5510	5.07	5.11	8.10	24
Mid	5550	6.14	5.93	9.05	24
High	5670	5.78	5.61	8.71	24

Test mode: IEEE802.11ac HT80 mode

5250~5350MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
--	5290	6.01	5.92	8.98	24

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5510	6.80	6.93	9.88	24
High	5670	6.39	5.96	9.19	24

Test mode: IEEE802.11ax HE20 mode

5250~5350MHz

Channel	Frequency(MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5260	6.59	5.44	9.06	24
Mid	5280	6.05	5.89	8.98	24
High	5320	5.48	6.94	9.28	24

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5500	5.64	6.64	9.18	24
Mid	5580	7.37	5.77	9.65	24
High	5700	7.04	6.11	9.61	24

Test mode: IEEE802.11ax HE40 mode

5250~5350MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5270	5.63	5.71	8.68	24
Mid	5310	5.95	5.71	8.84	24

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5510	6.32	5.87	9.11	24
Mid	5550	7.29	6.72	10.02	24
High	5670	6.43	5.17	8.86	24

Test mode: IEEE802.11ax HE80 mode

5250~5350MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
--	5290	5.27	5.60	8.45	24

5470~5725MHz

Channel	Frequency (MHz)	Peak Output Power (dBm)		Mimo	Limit(dBm)
		Ant1	Ant2		
Low	5510	5.82	6.36	9.11	24
High	5670	5.40	6.21	8.83	24