

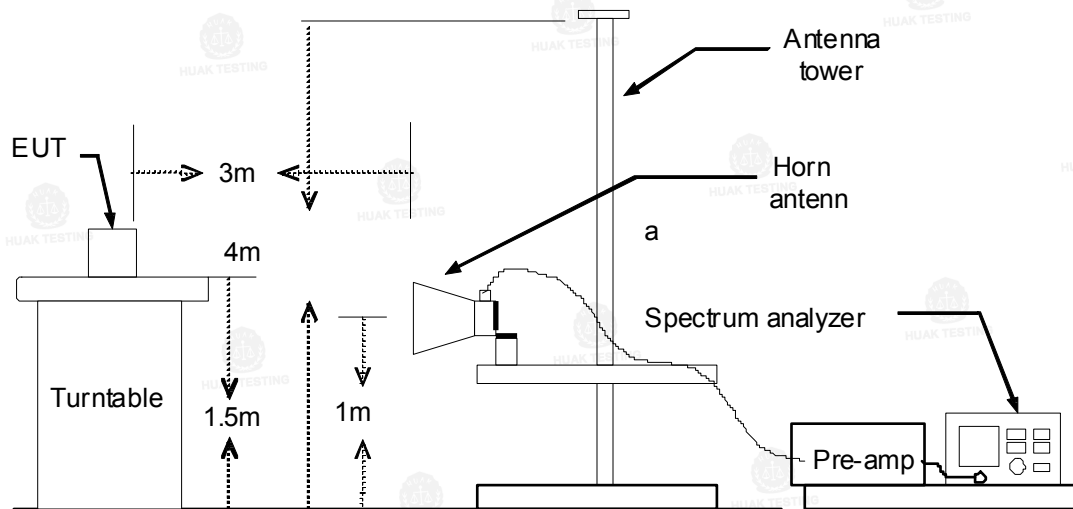
6.3 Band Edges Measurement

Limit

According to §15.407(b),

- (1) The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.
- (2) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

Test Configuration



Test Procedure

1. The EUT is placed on a turntable, which is 1.5m above the ground plane.
2. The turntable shall be rotated for 360degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / Sweep=AUTO

VBW=10Hz, when duty cycle is no less than 98 percent.

$VBW \geq 1/T$, when duty cycle is less than 98 percent,

where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

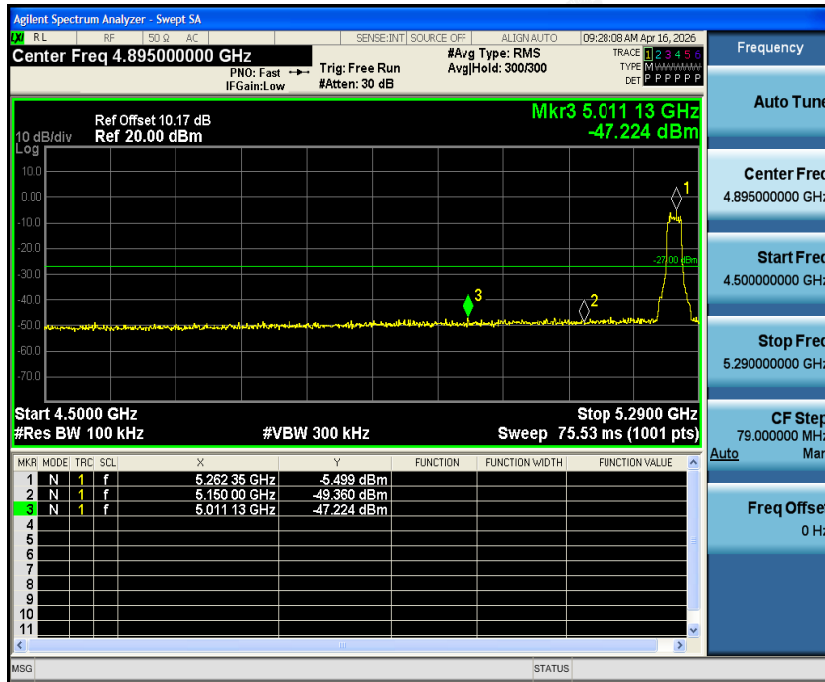
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
IEEE 802.11 a	-	-	-	10Hz
IEEE 802.11n/ac HT20/ax HE20	-	-	-	10Hz
IEEE 802.11n/ac HT40/ax HE40	-	-	-	10Hz
IEEE 802.11ac HT80/ax HE80	-	-	-	10Hz

Test Results

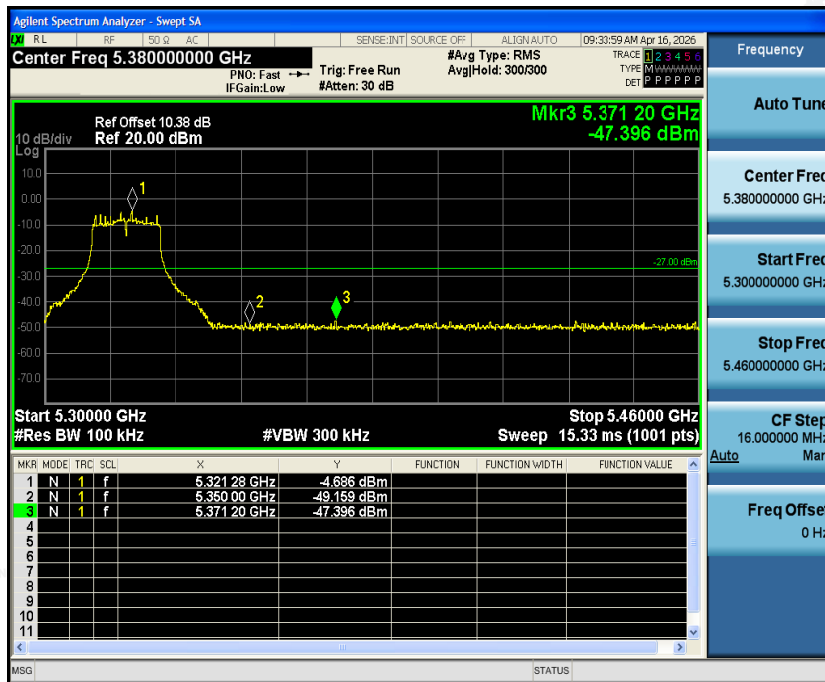
Refer to attach spectrum analyzer data chart.

Antenna1
Band Edges(IEEE802.11a mode)

5260MHz



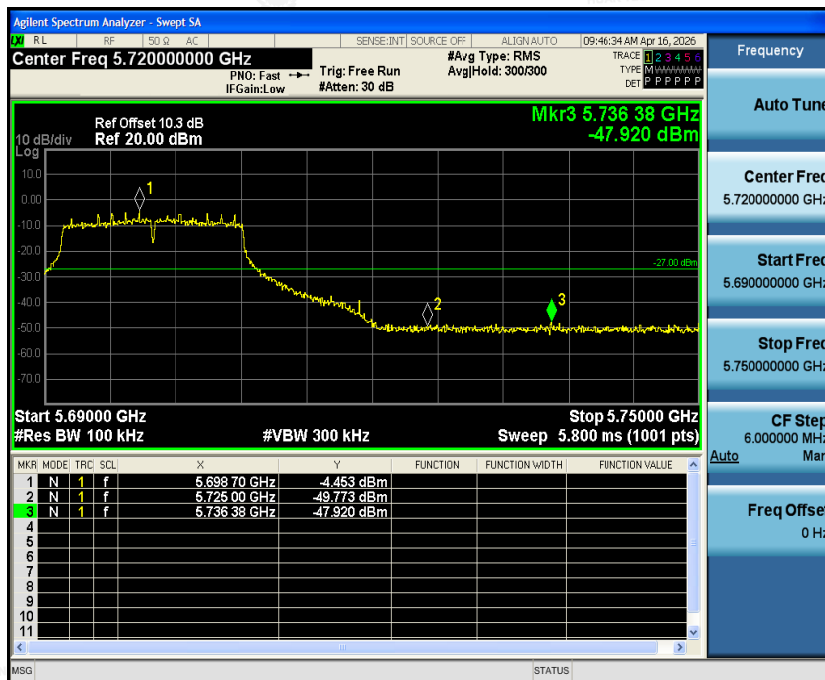
5320MHz



5500MHz

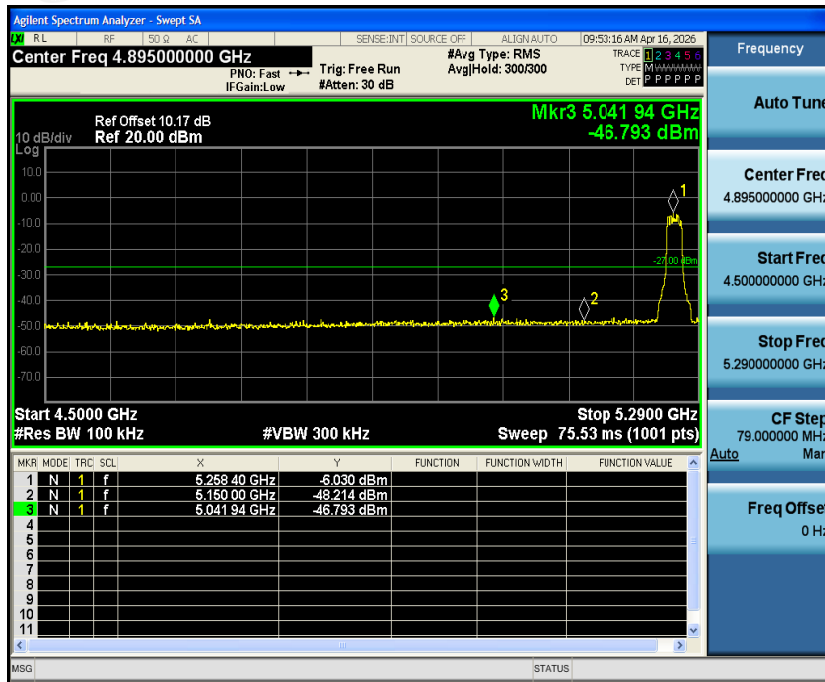


5700MHz

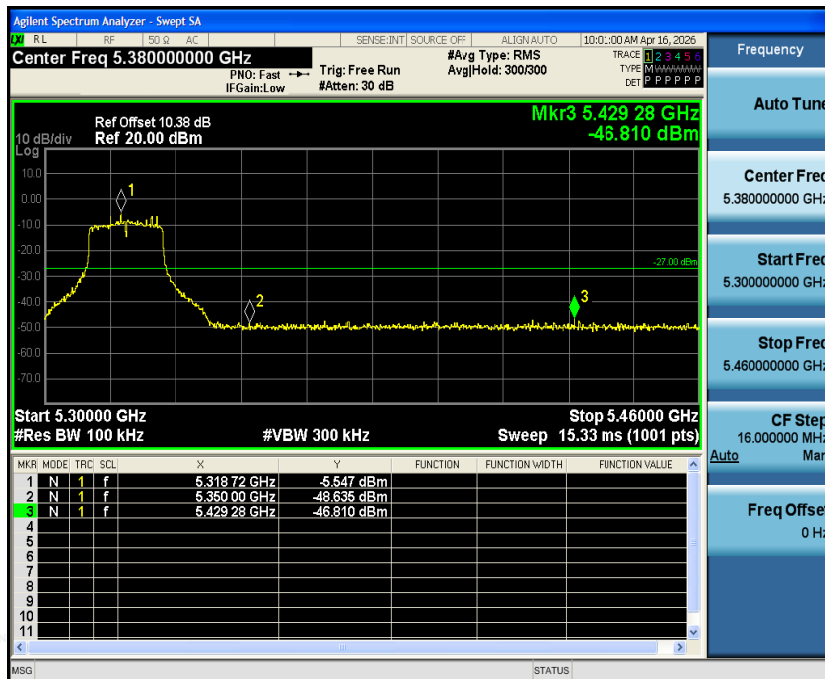


Band Edges(IEEE802.11n HT20 mode)

5260MHz

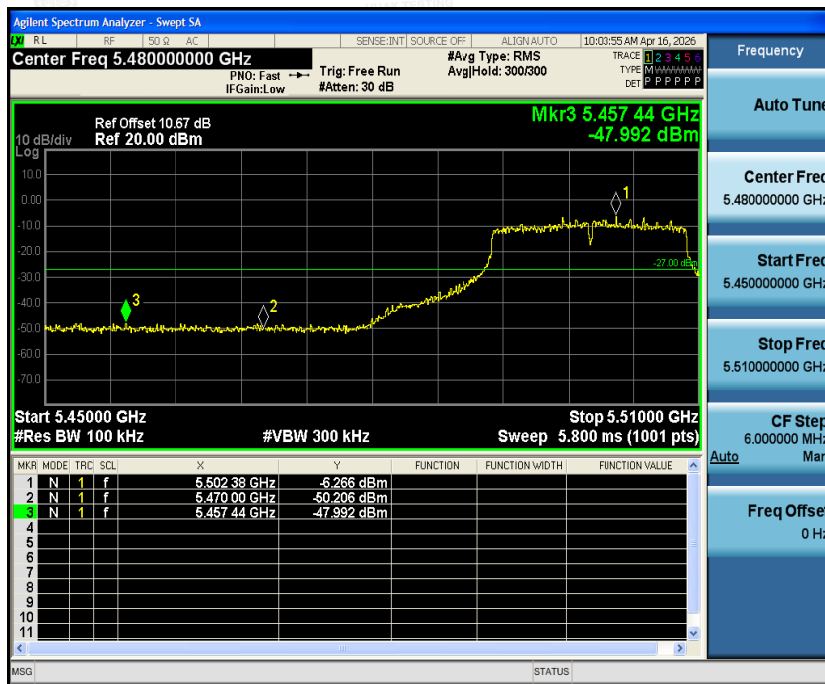


5320MHz

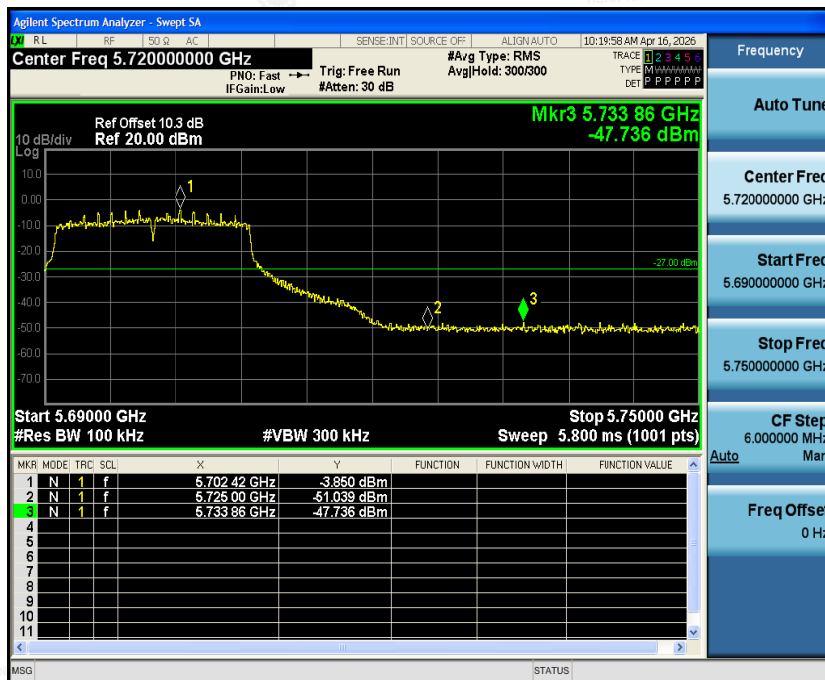


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5500MHz

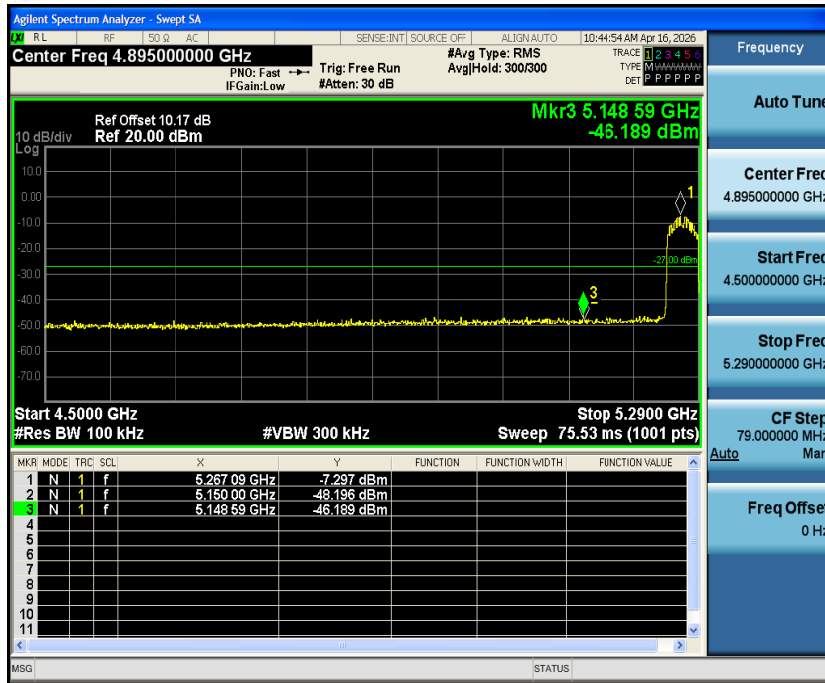


5700MHz

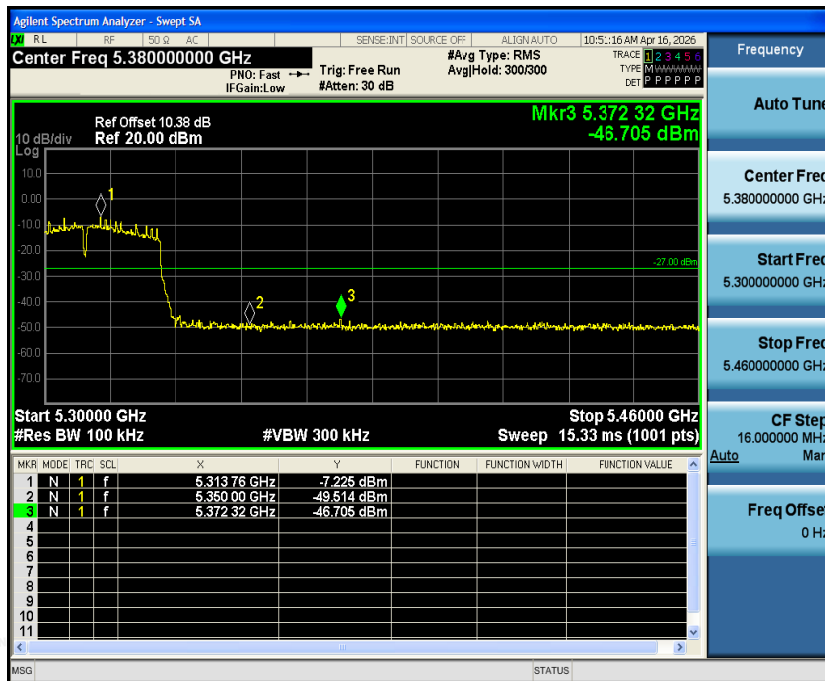


Band Edges(IEEE802.11n HT40 mode)

5270MHz

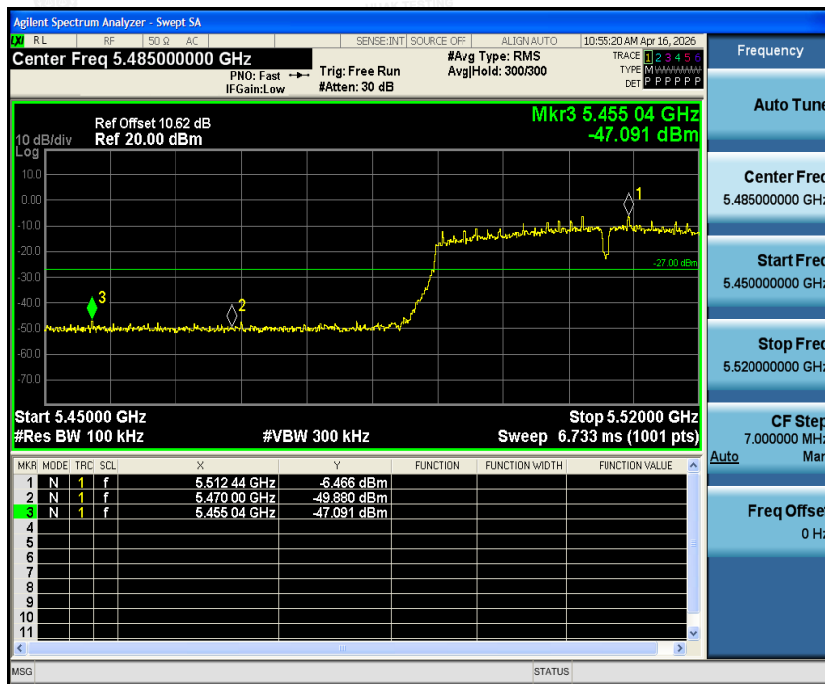


5310MHz

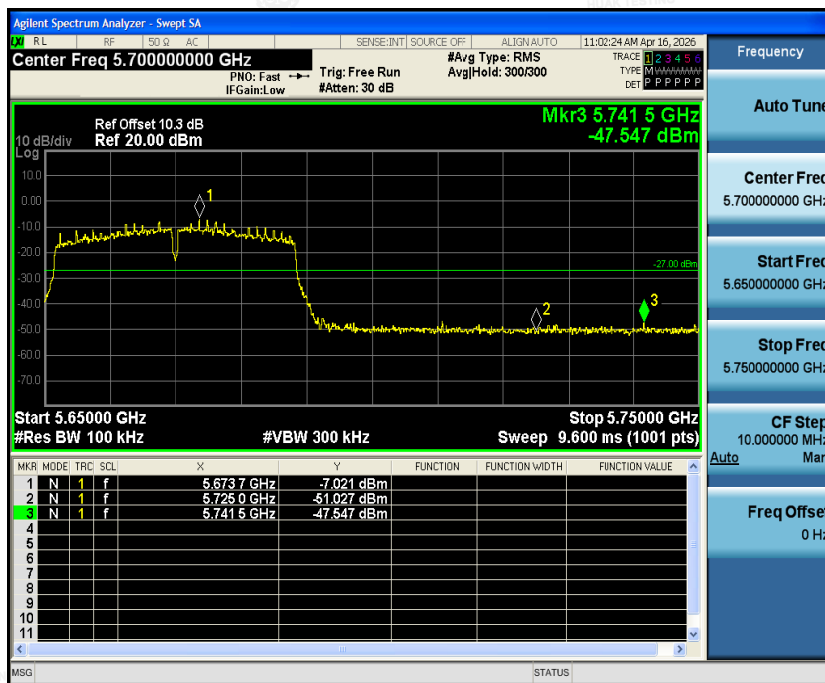


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5510MHz

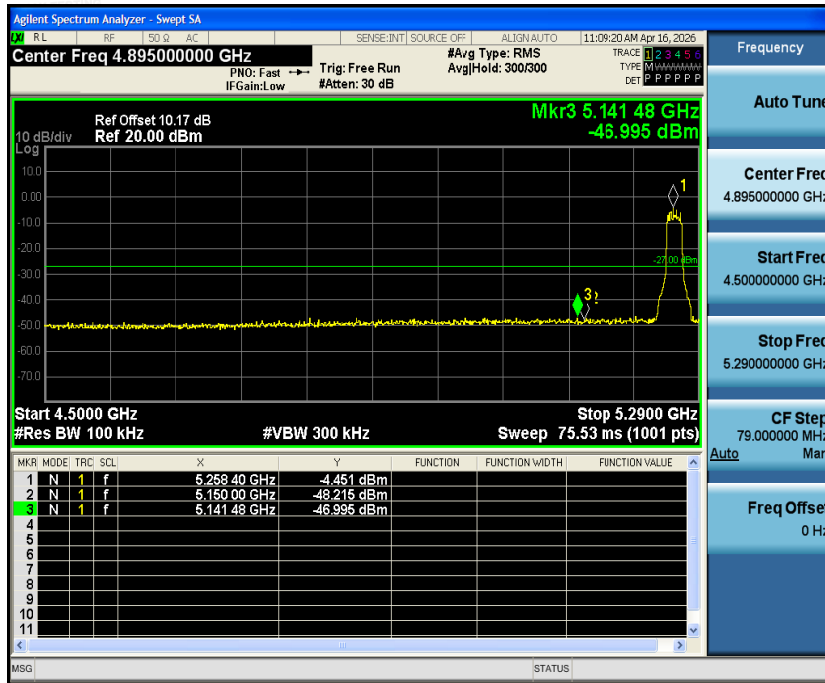


5670MHz

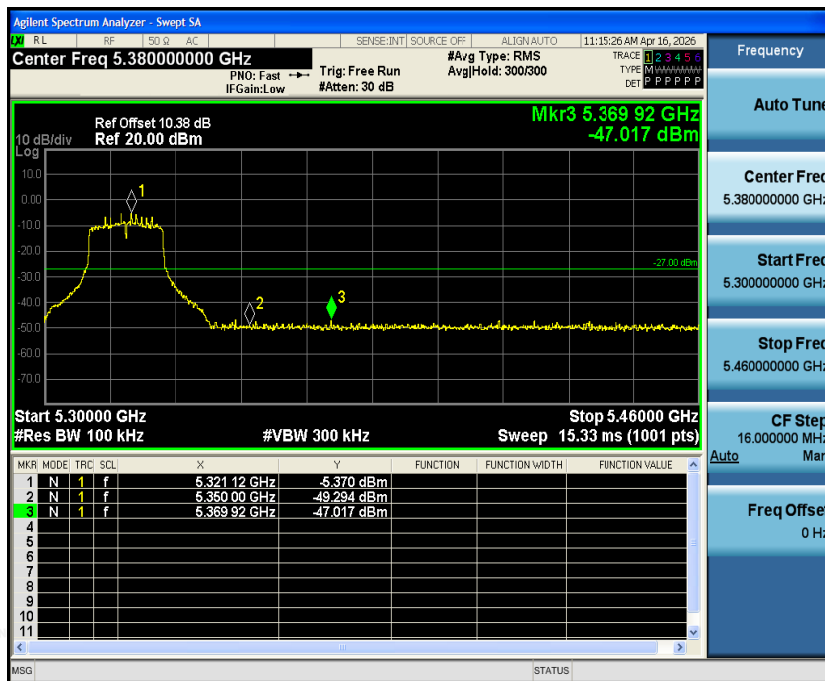


Band Edges(IEEE802.11ac HT20 mode)

5260MHz

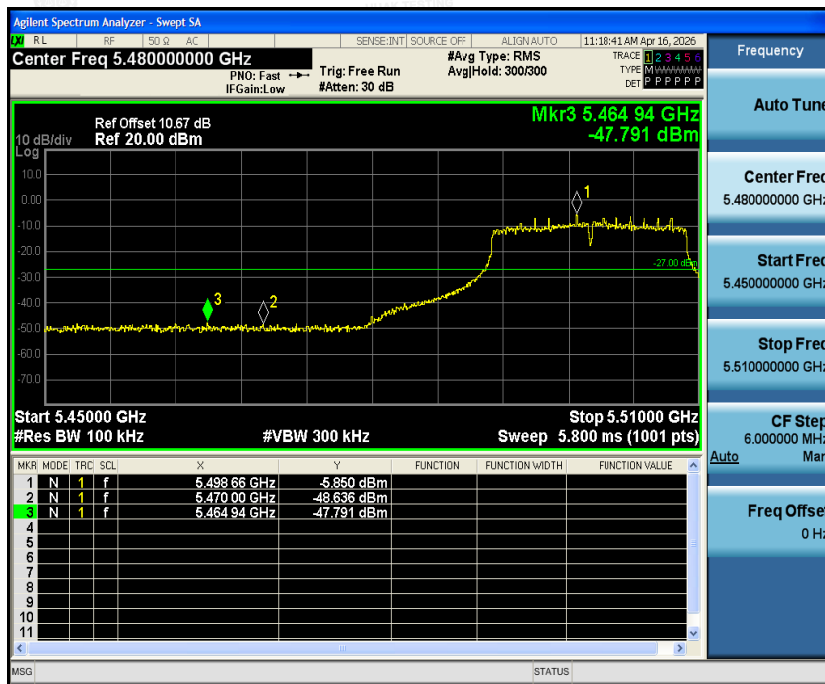


5320MHz

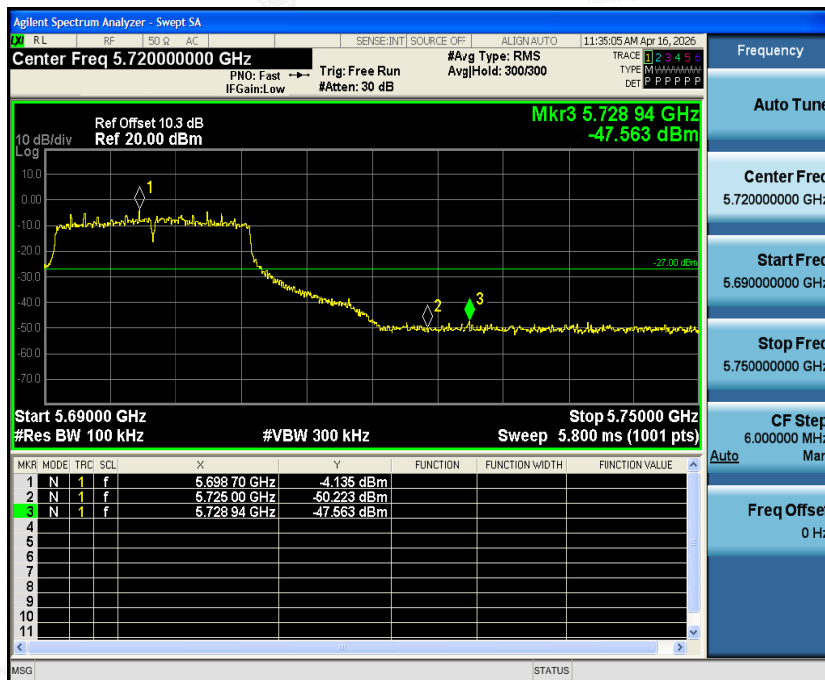


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5500MHz

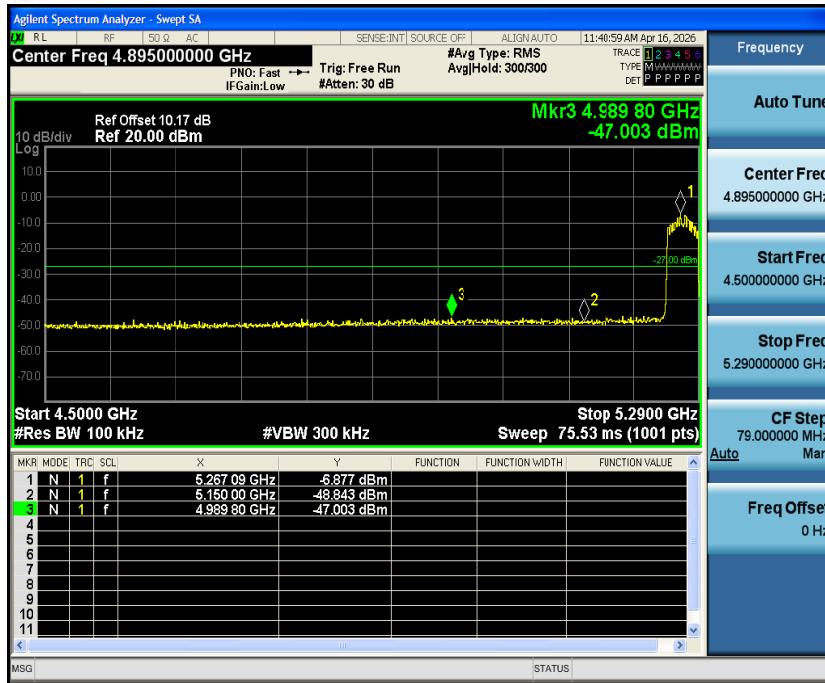


5700MHz

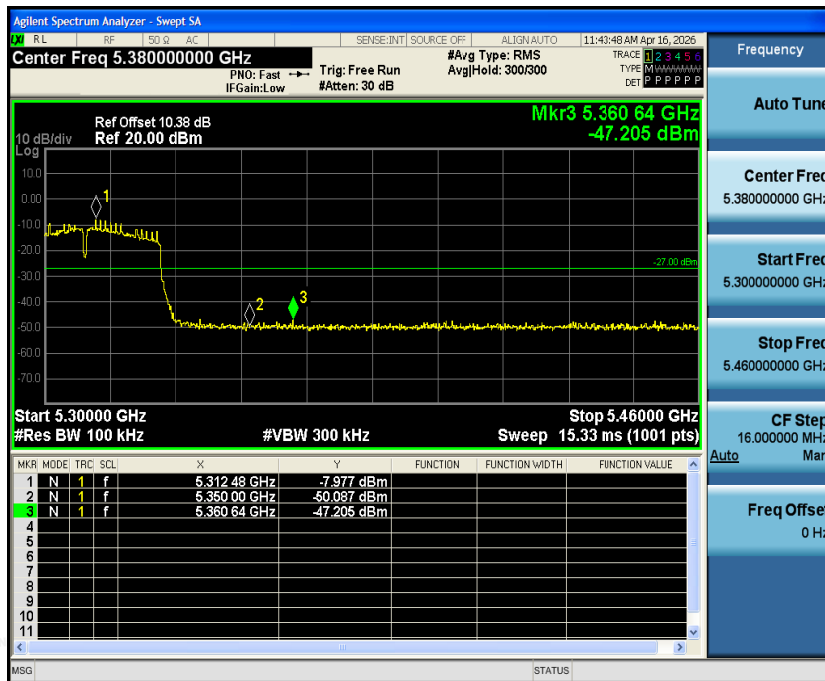


Band Edges(IEEE802.11ac HT40 mode)

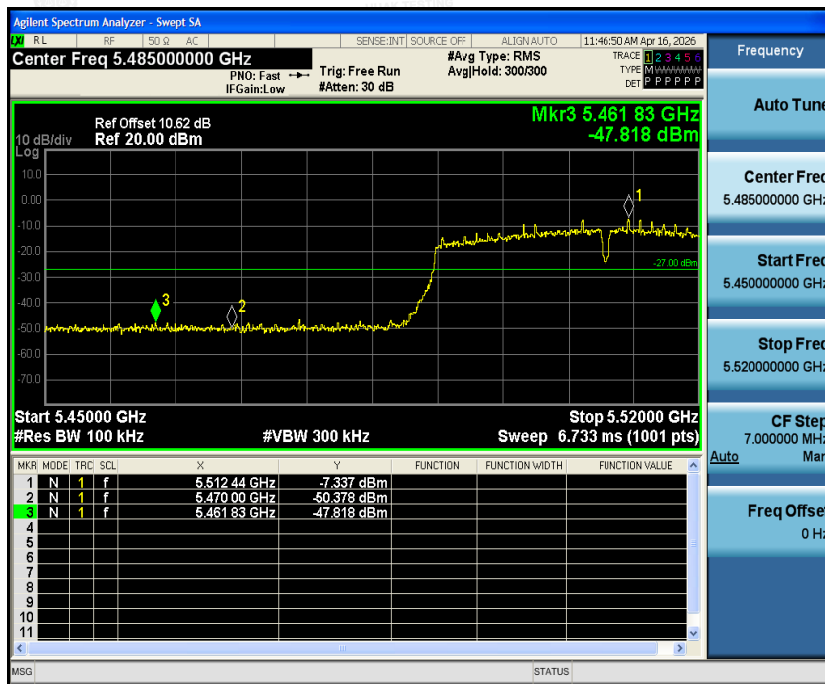
5270MHz



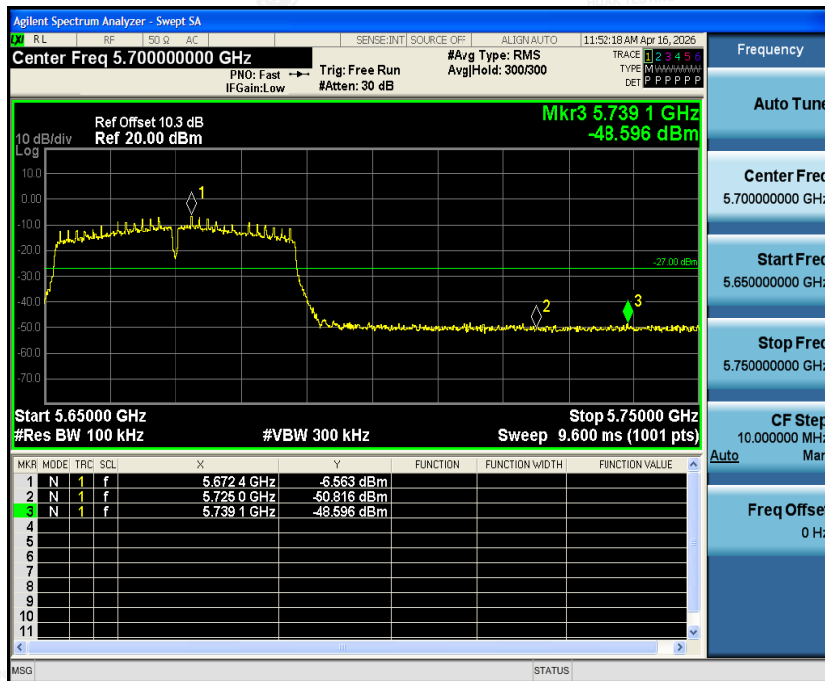
5310MHz



5510MHz

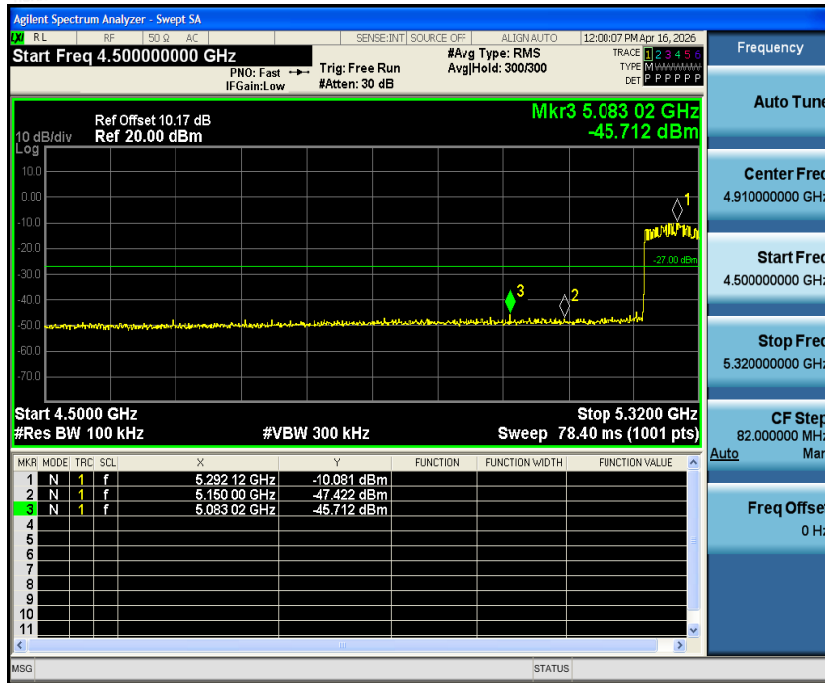


5670MHz

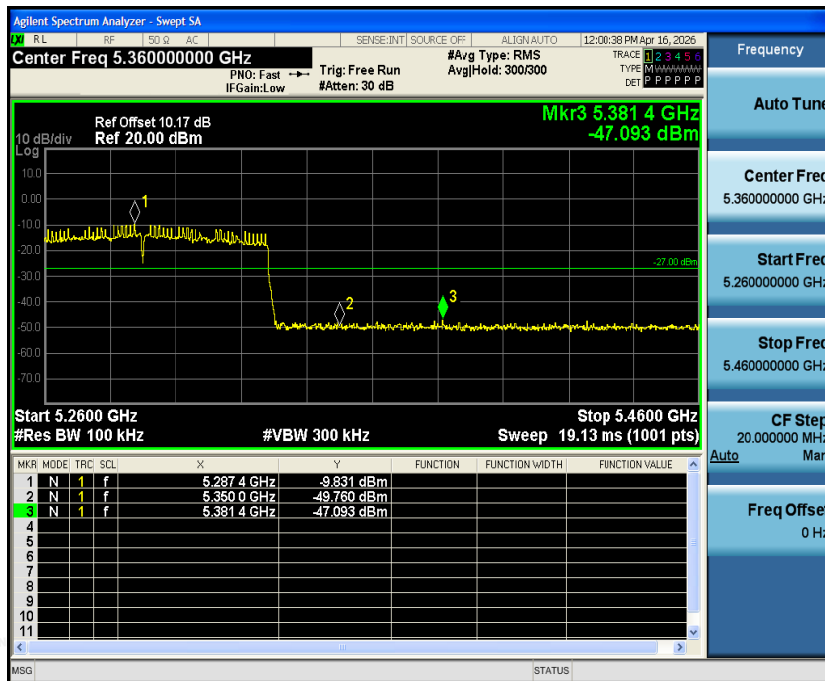


Band Edges(IEEE802.11ac HT80 mode)

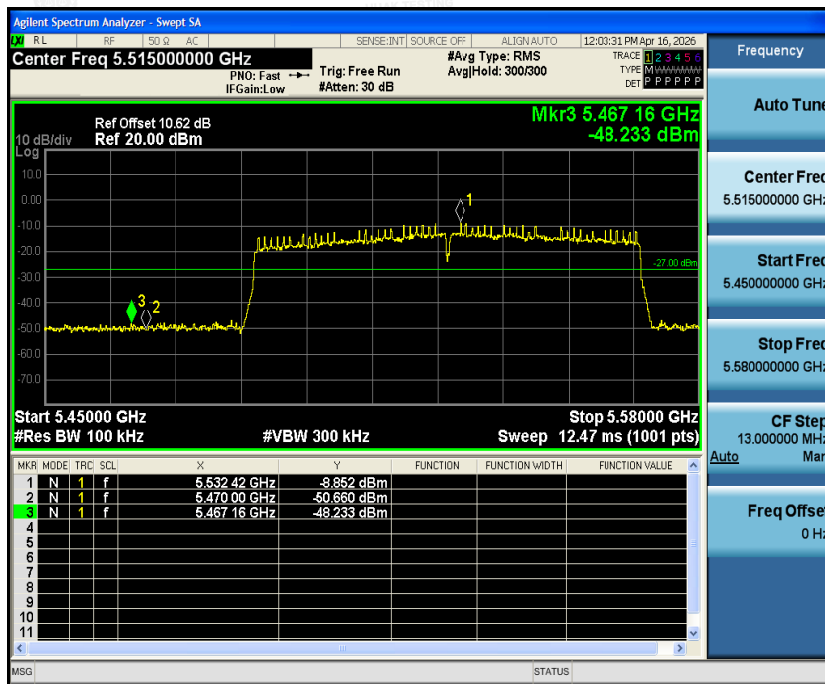
5290MHz



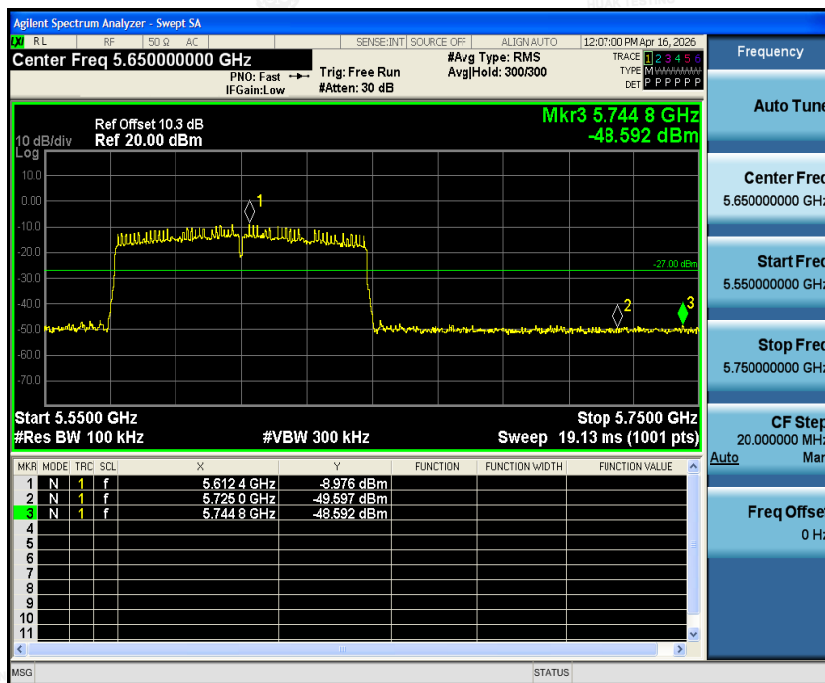
5290MHz



5530MHz

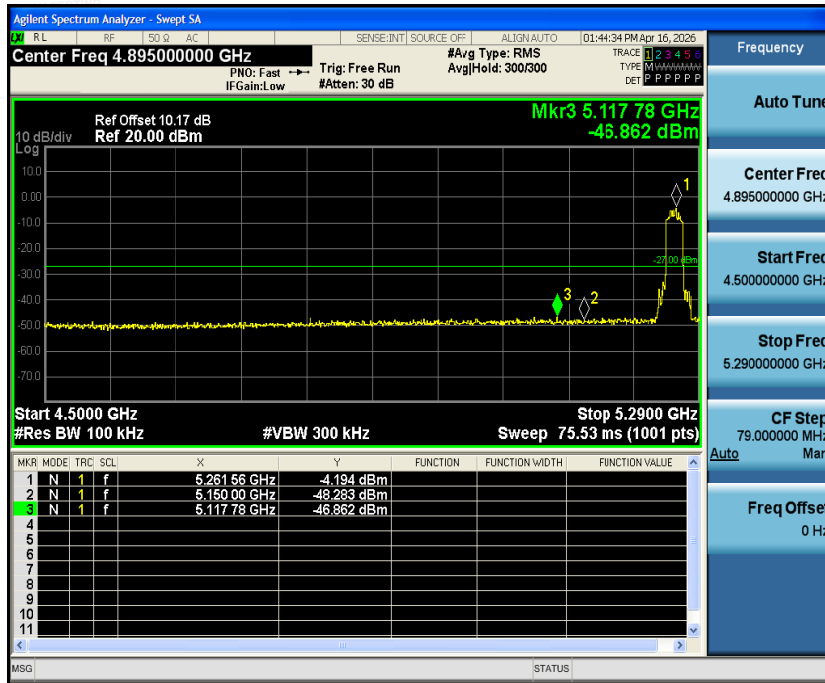


5610MHz

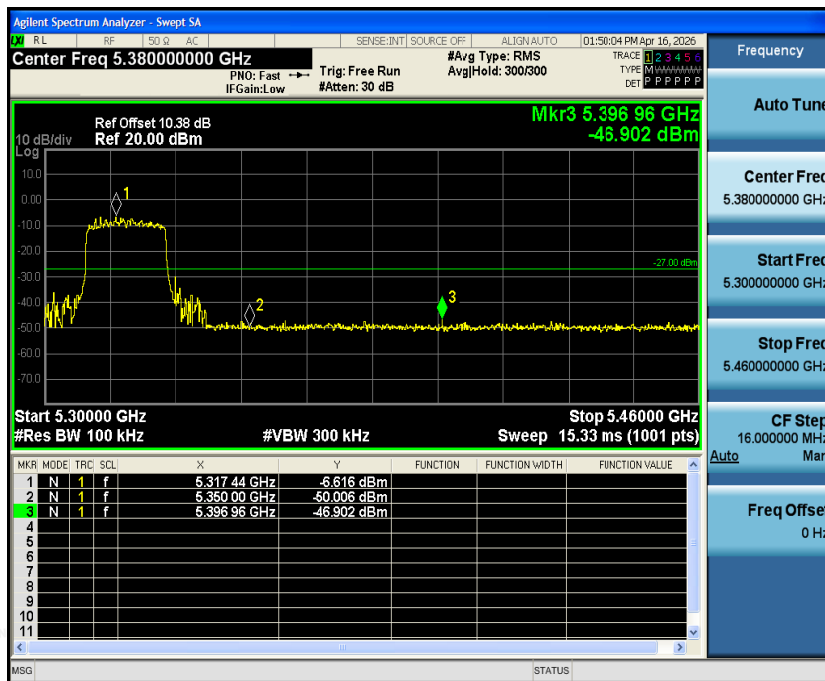


Band Edges(IEEE802.11ax HE20 mode)

5260MHz

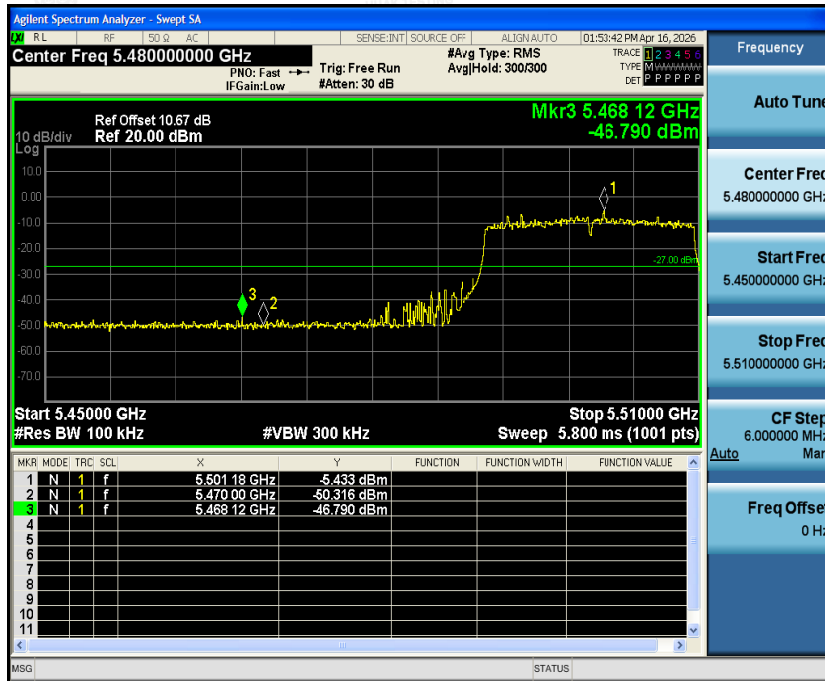


5320MHz

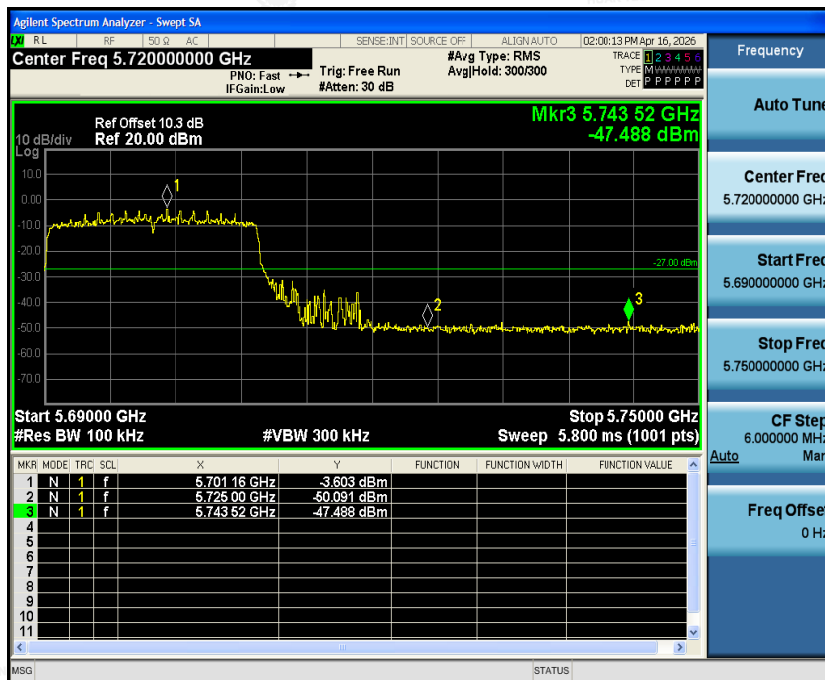


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5500MHz

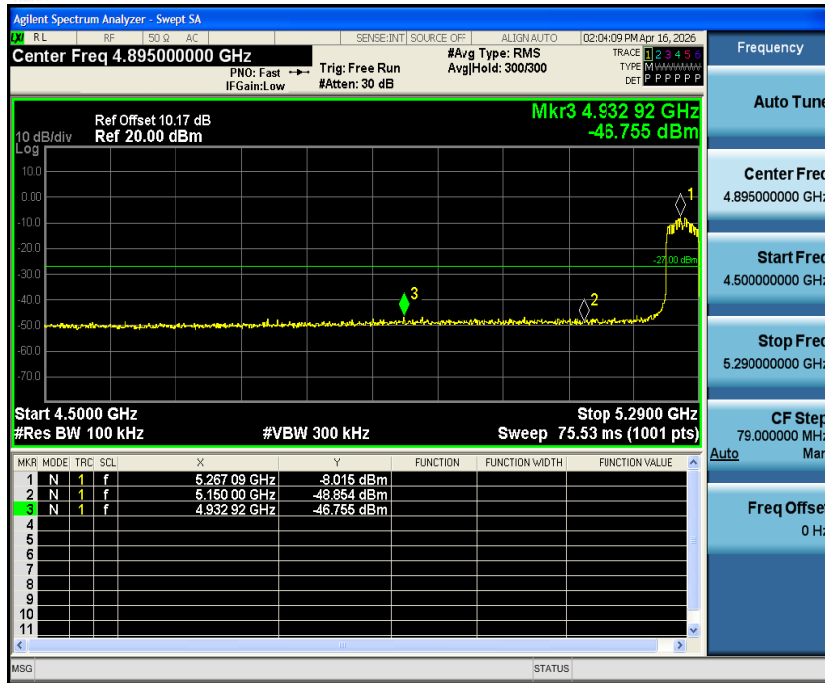


5700MHz



Band Edges(IEEE802.11ax HE40 mode)

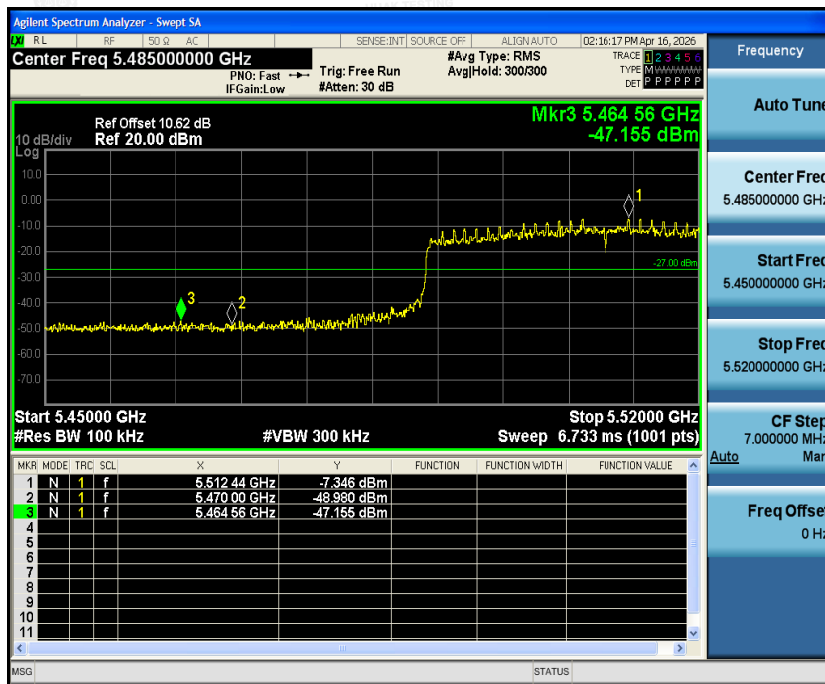
5270MHz



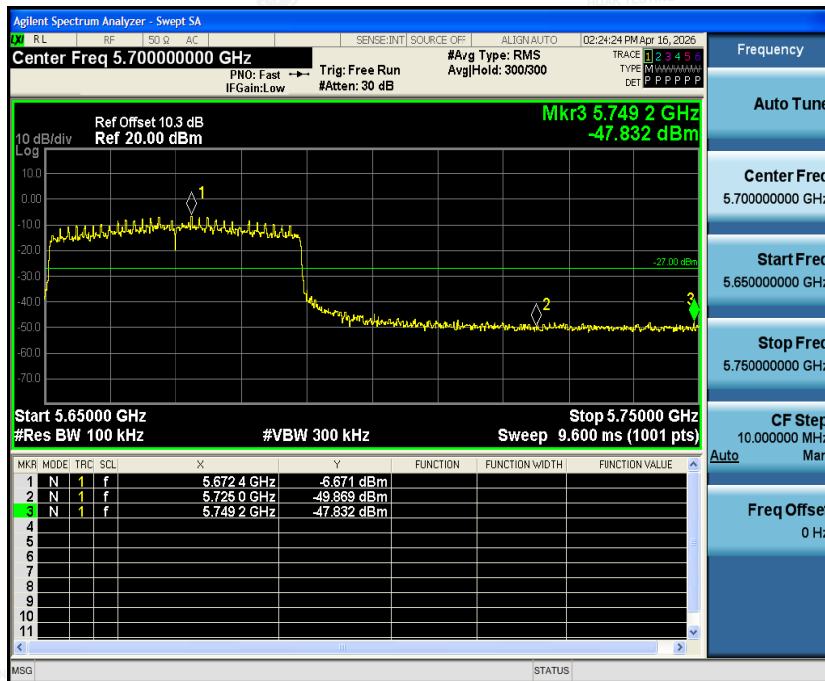
5310MHz



5510MHz

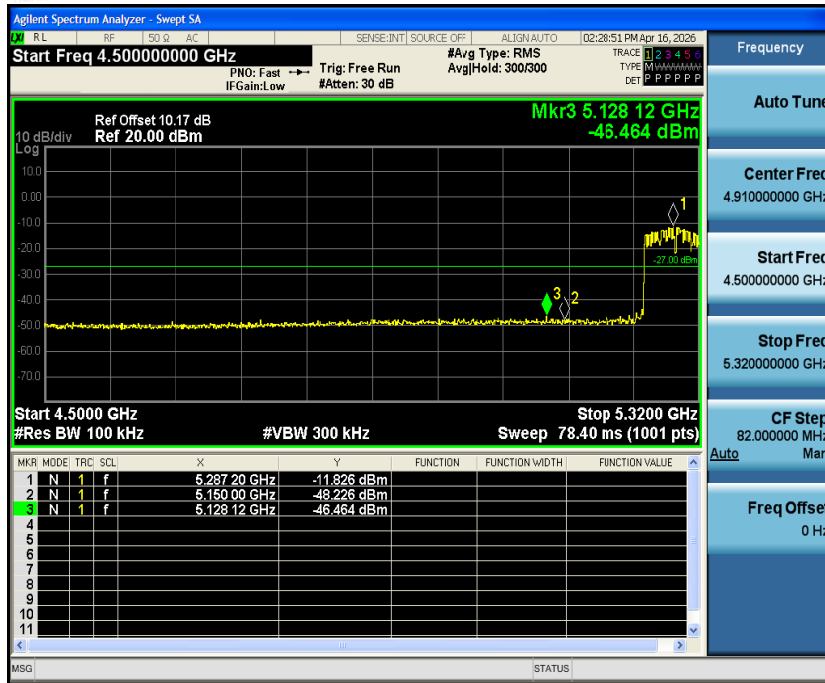


5670MHz

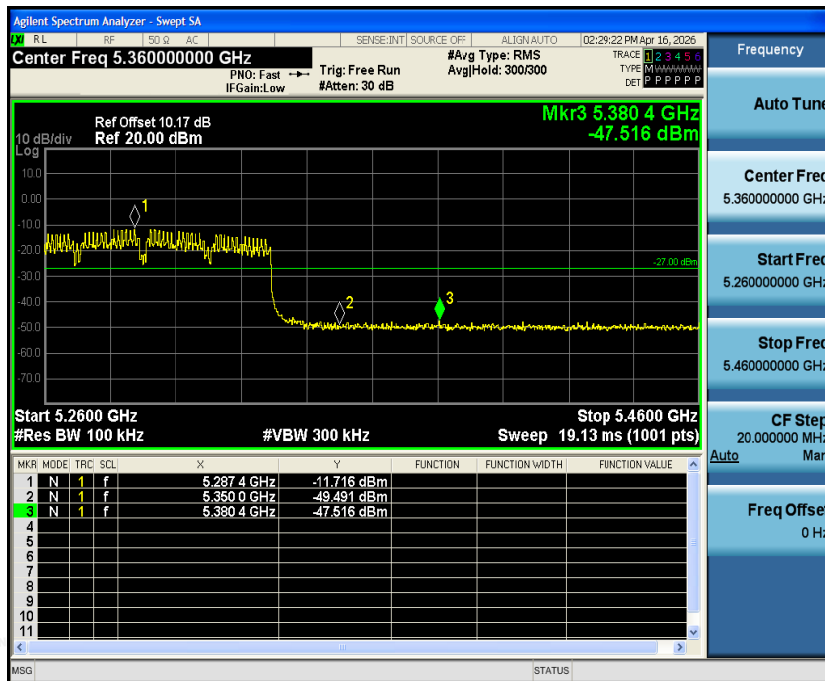


Band Edges(IEEE802.11ax HE80 mode)

5290MHz

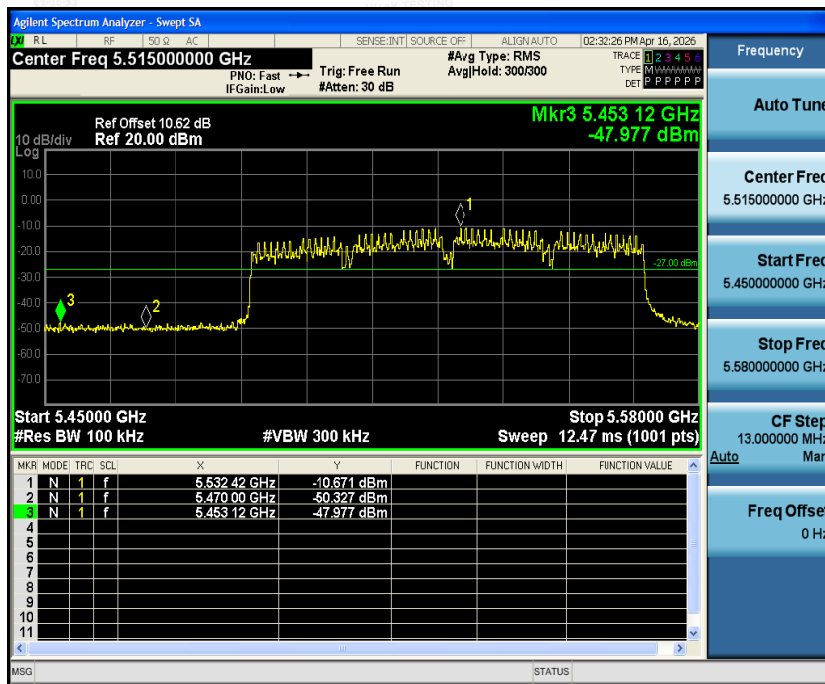


5290MHz

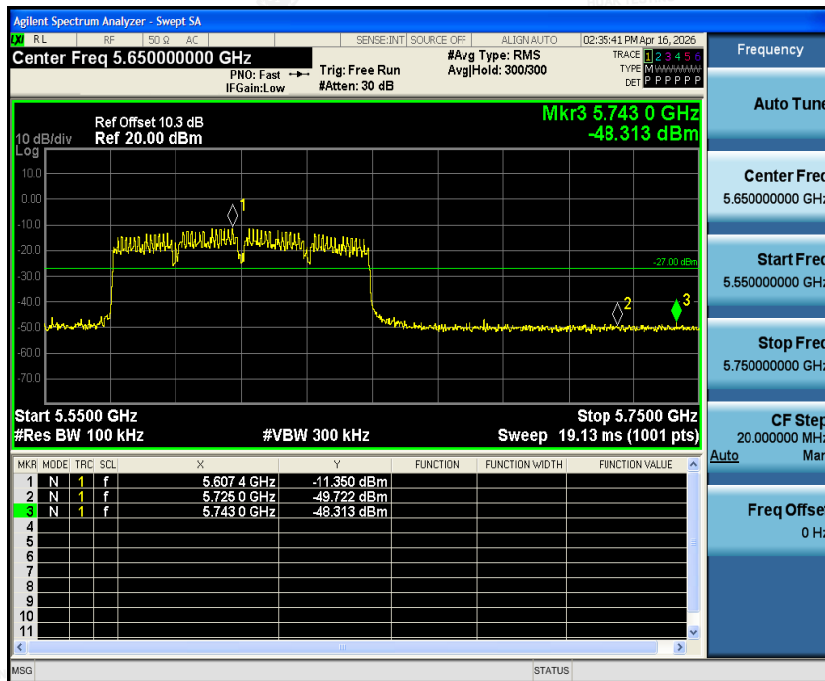


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5530MHz

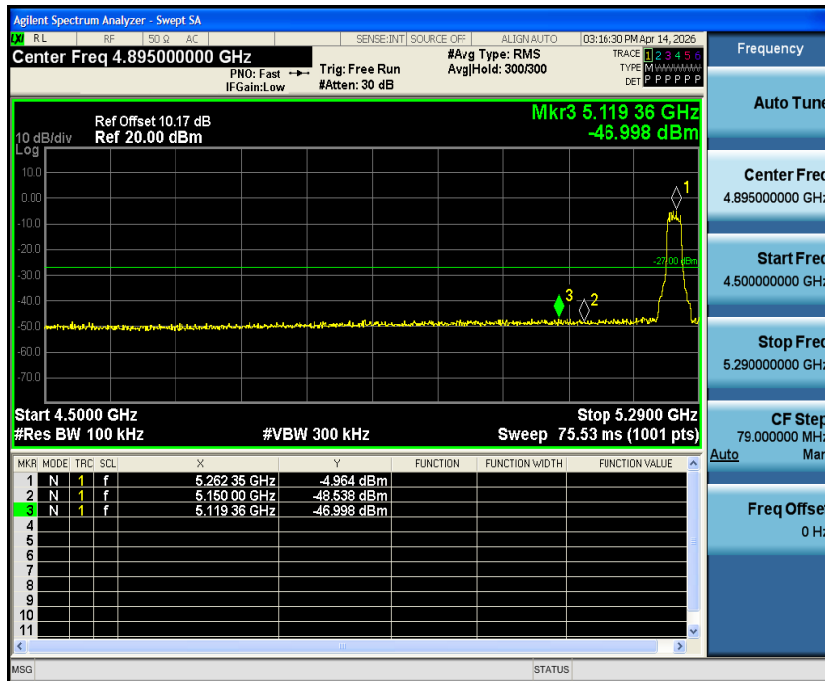


5610MHz

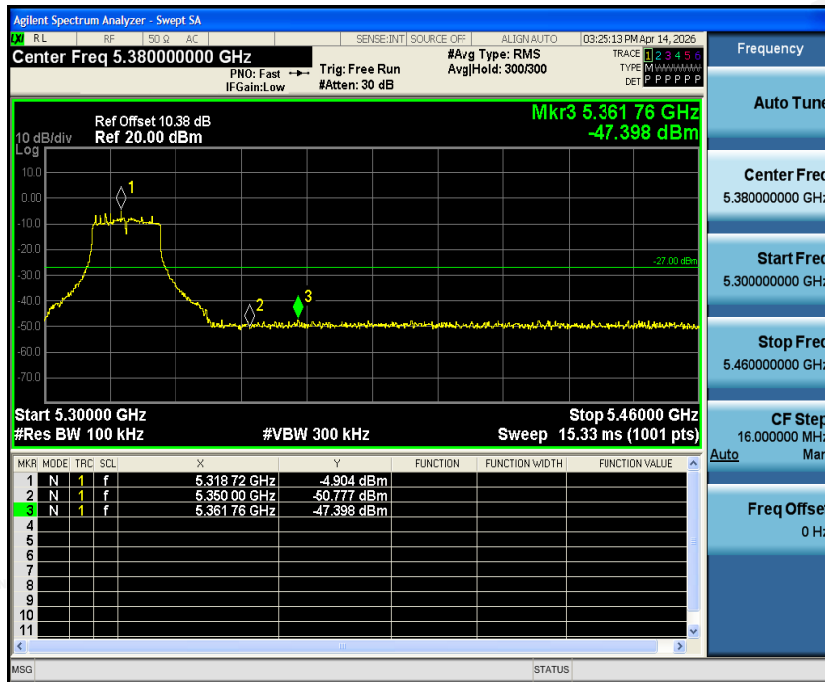


Antenna 2
Band Edges(IEEE802.11a mode)

5260MHz

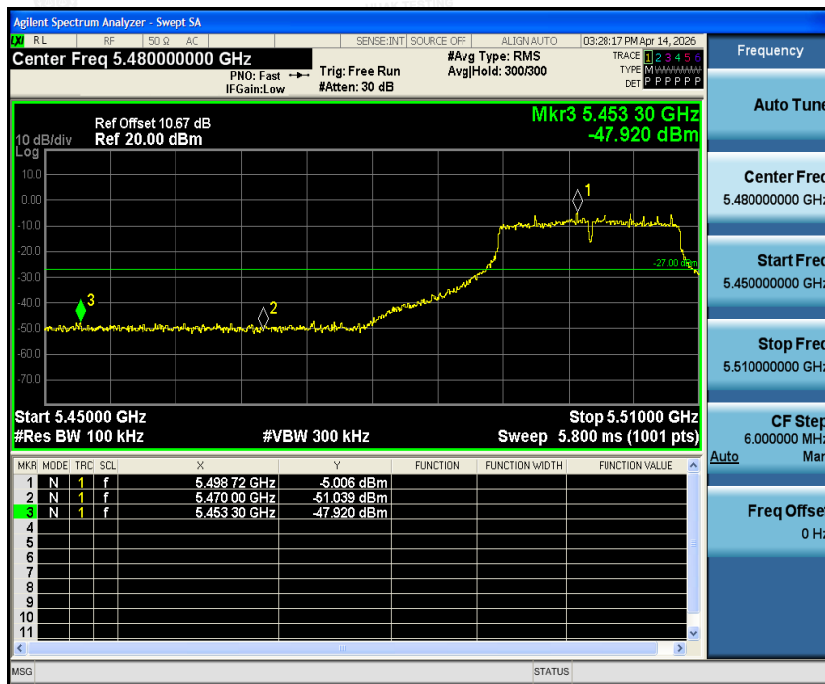


5320MHz

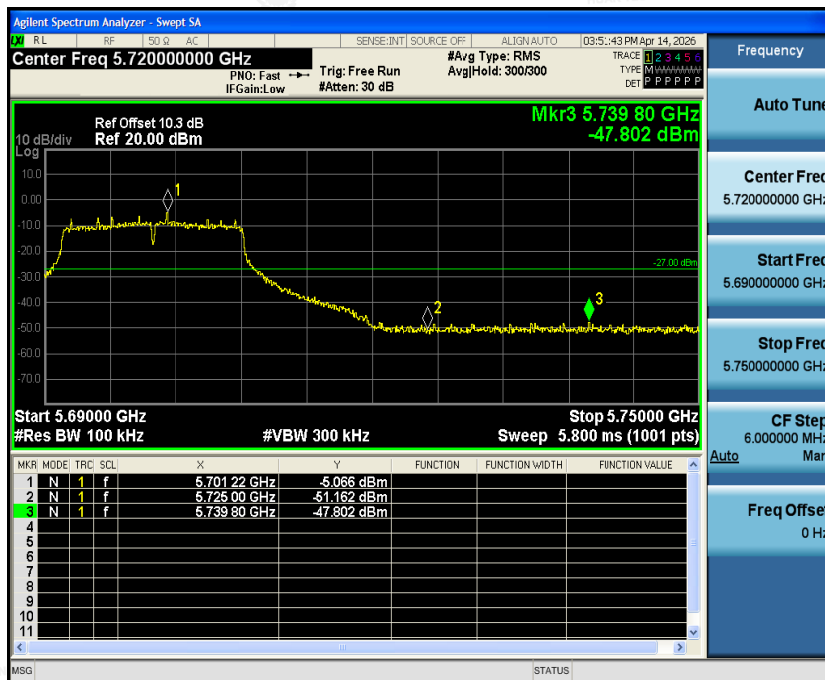


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5500MHz

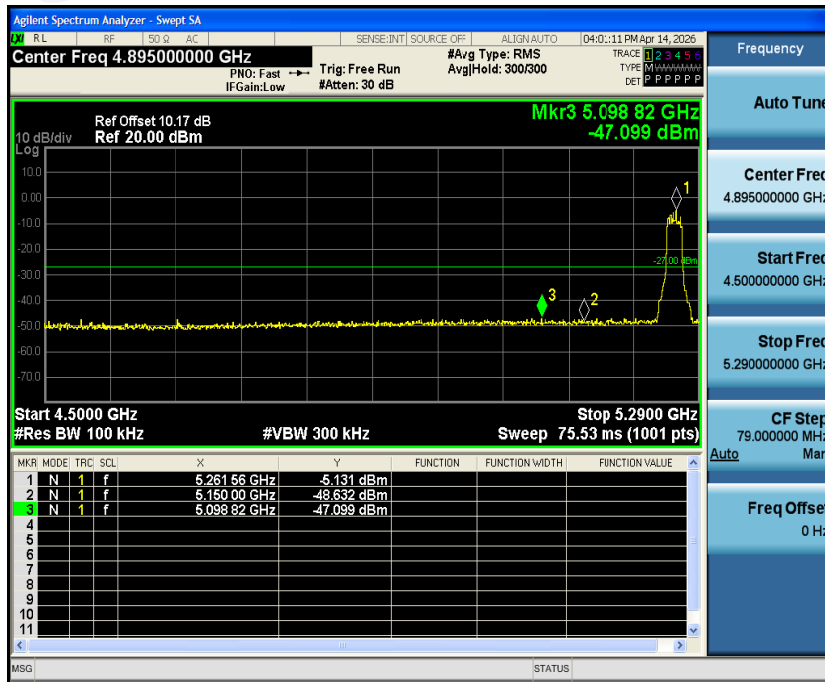


5700MHz

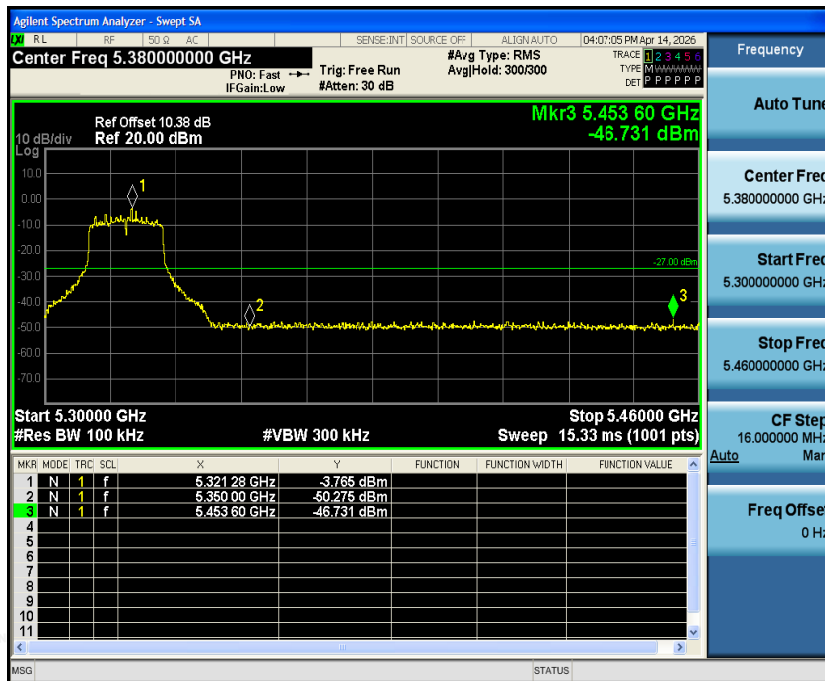


Band Edges(IEEE802.11n HT20 mode)

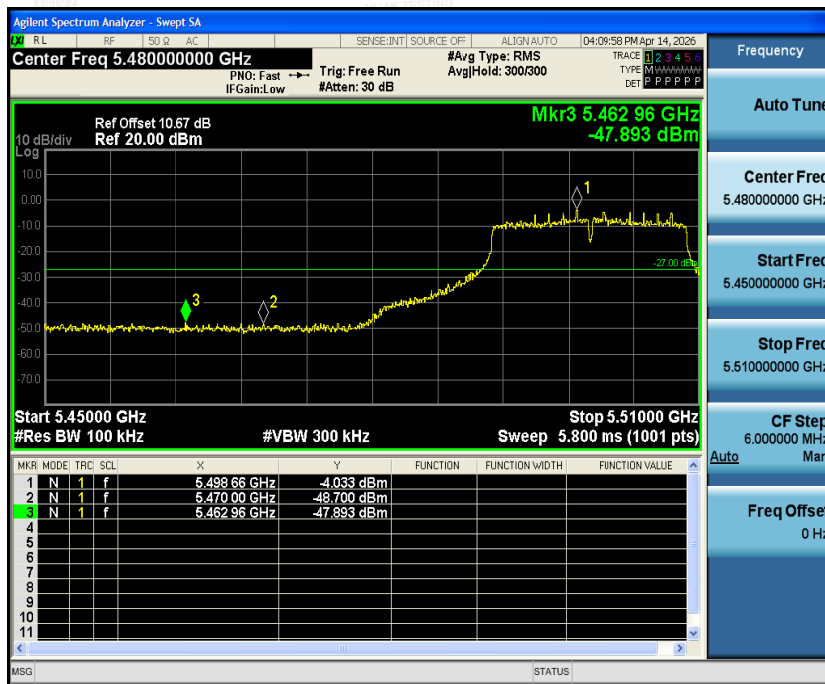
5260MHz



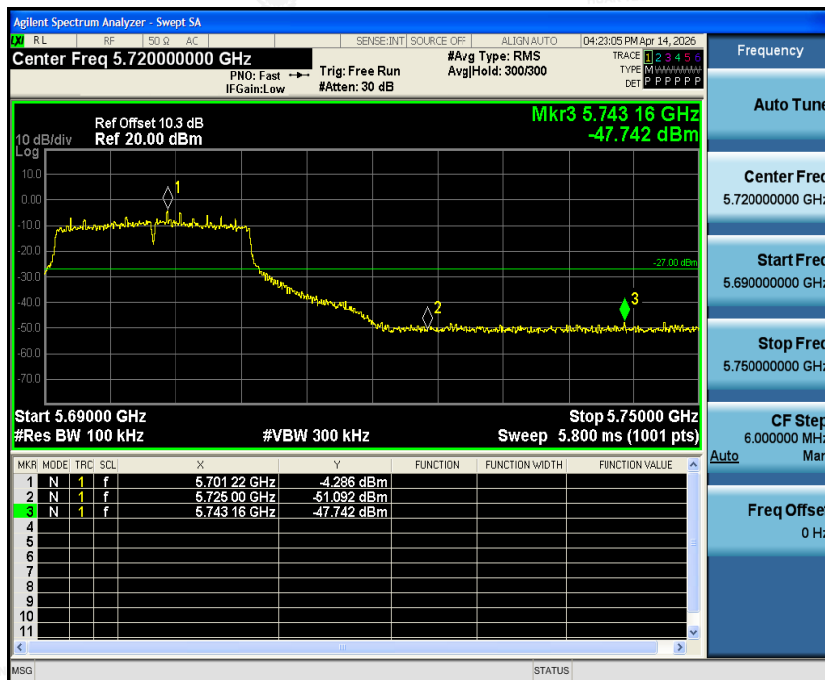
5320MHz



5500MHz

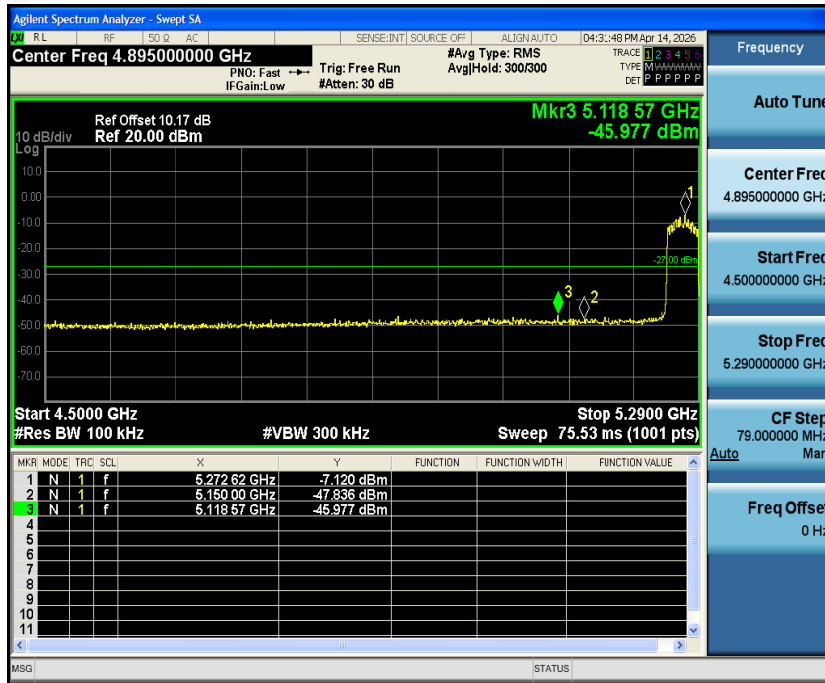


5700MHz

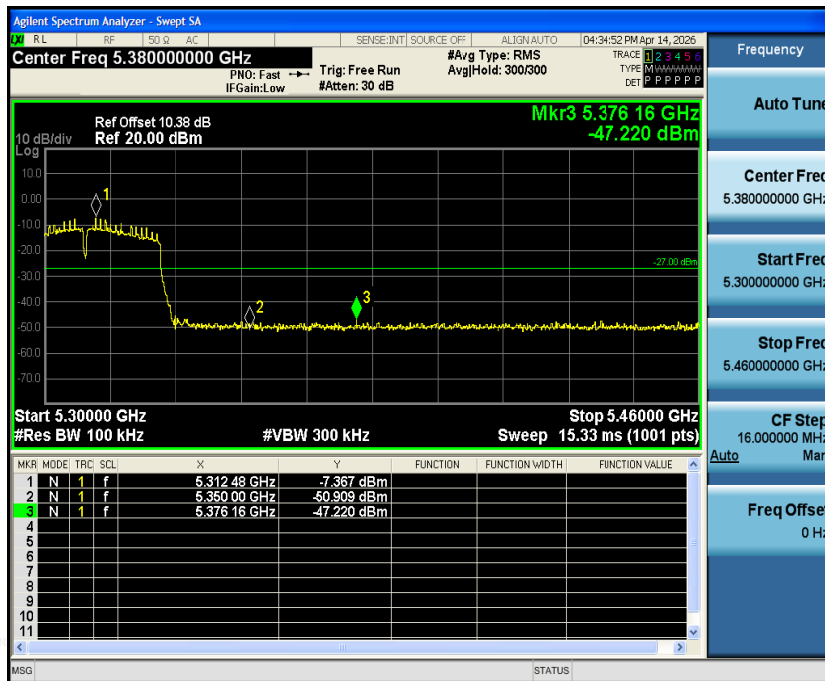


Band Edges(IEEE802.11n HT40 mode)

5270MHz

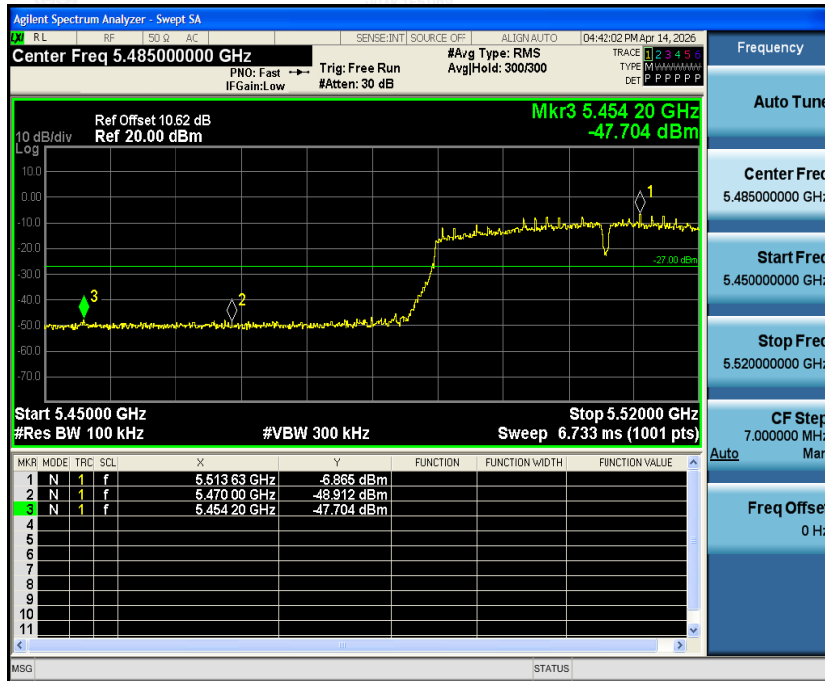


5310MHz

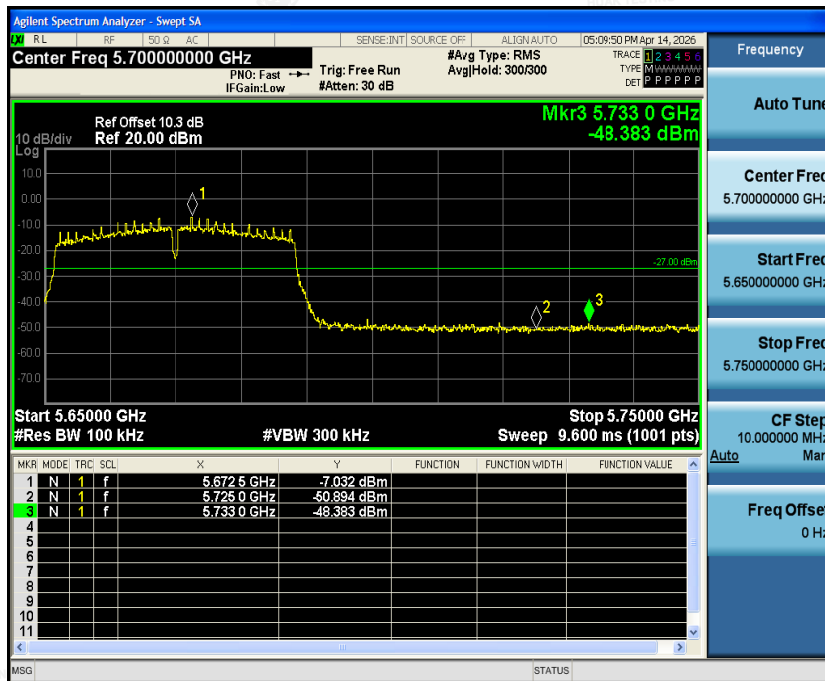


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5510MHz

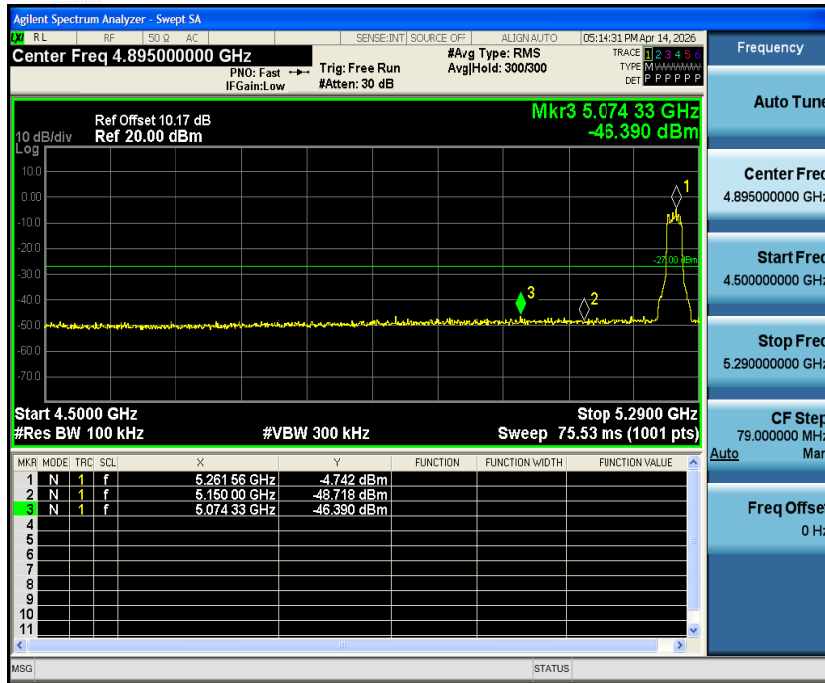


5670MHz

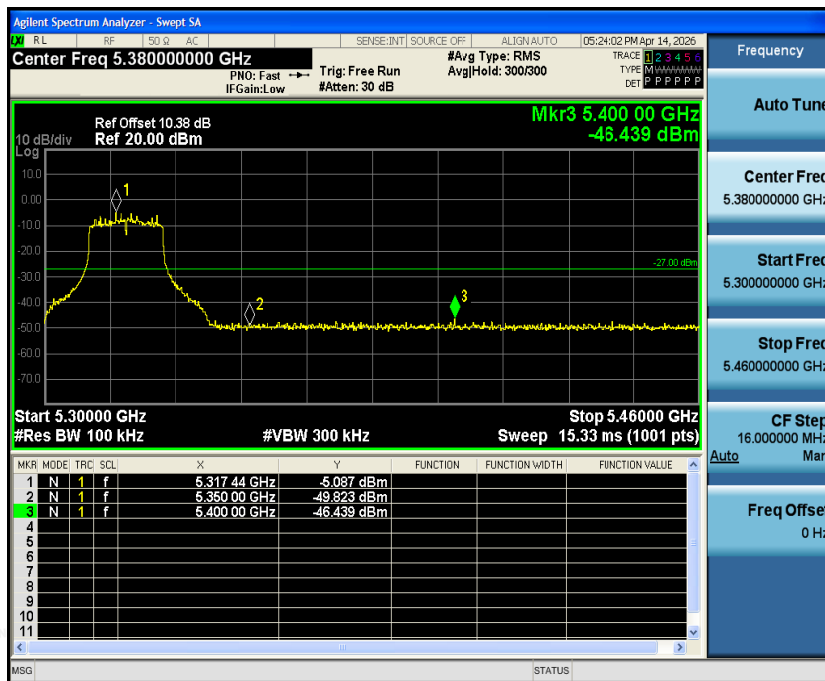


Band Edges(IEEE802.11ac HT20 mode)

5260MHz

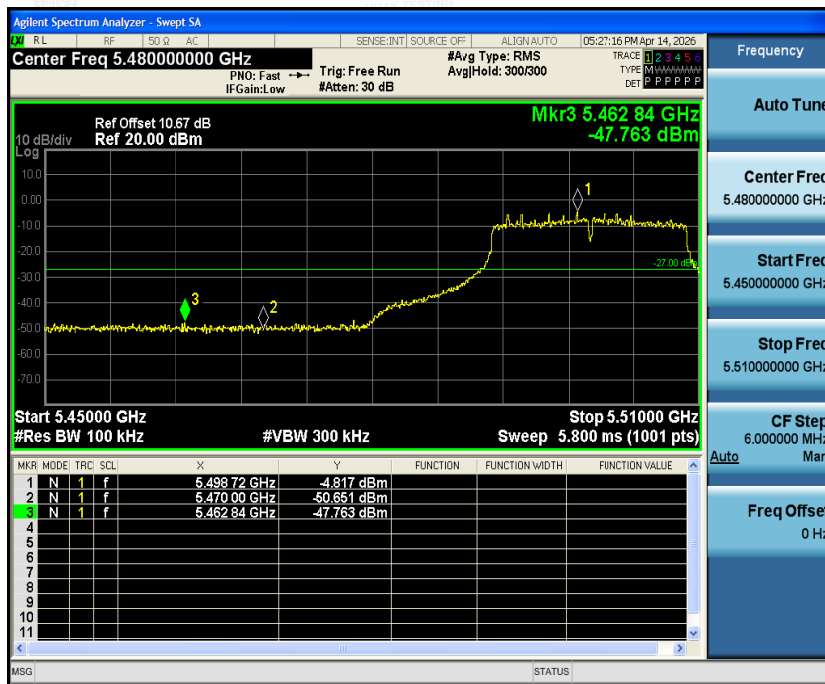


5320MHz

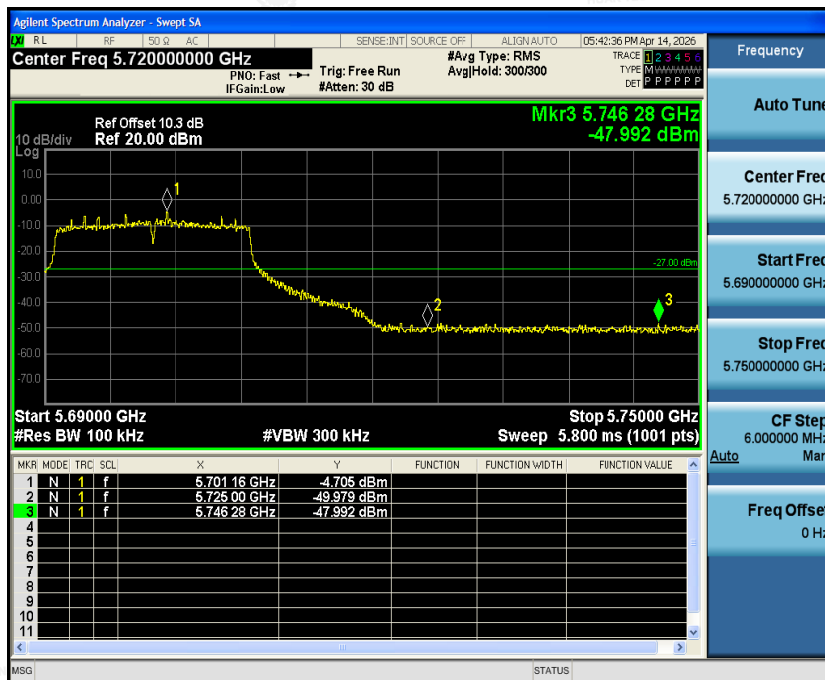


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5500MHz

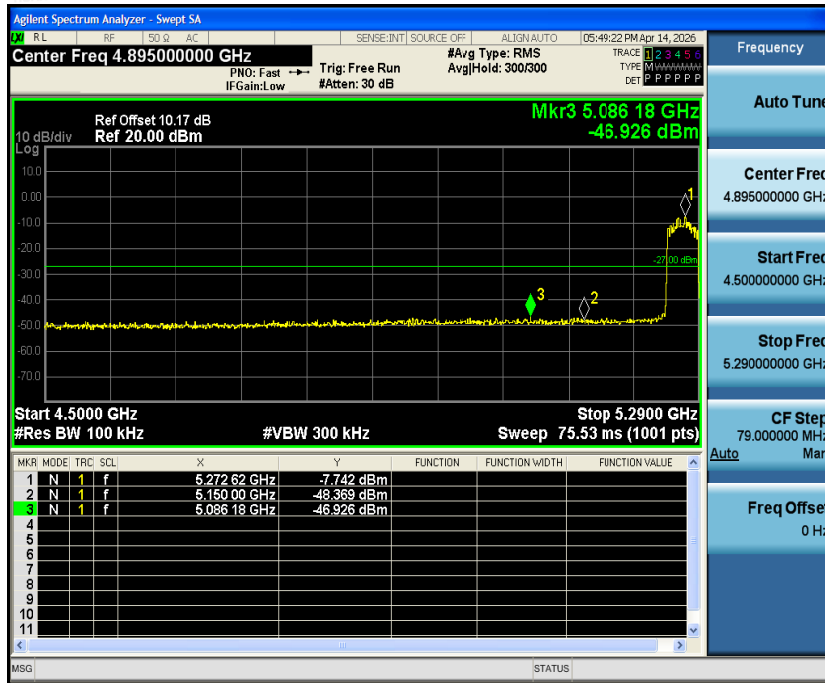


5700MHz

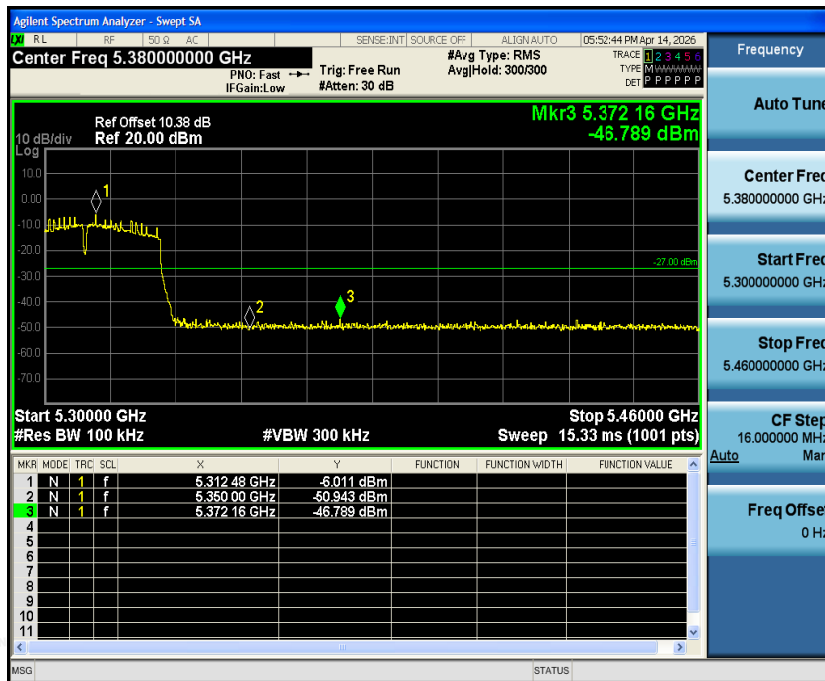


Band Edges(IEEE802.11ac HT40 mode)

5270MHz

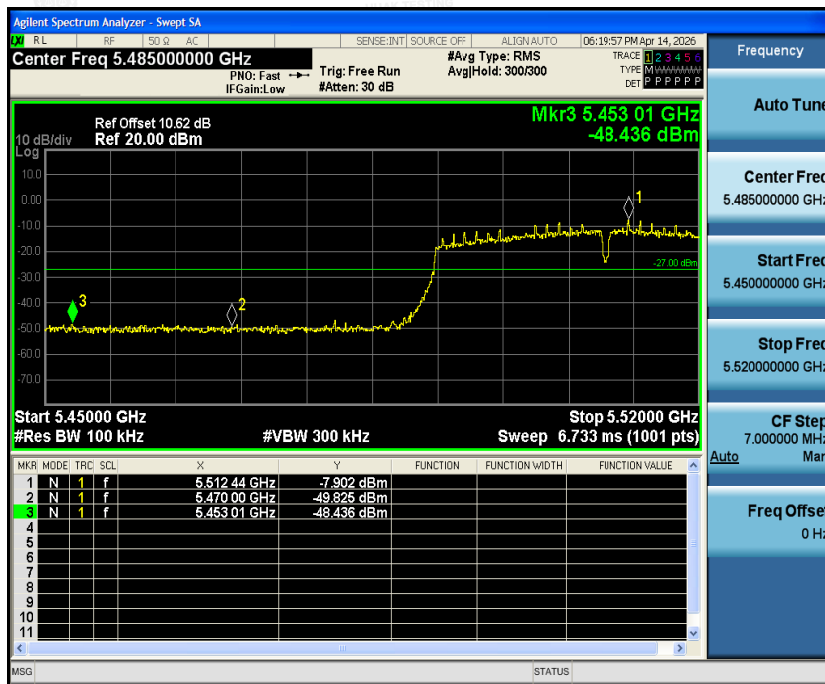


5310MHz

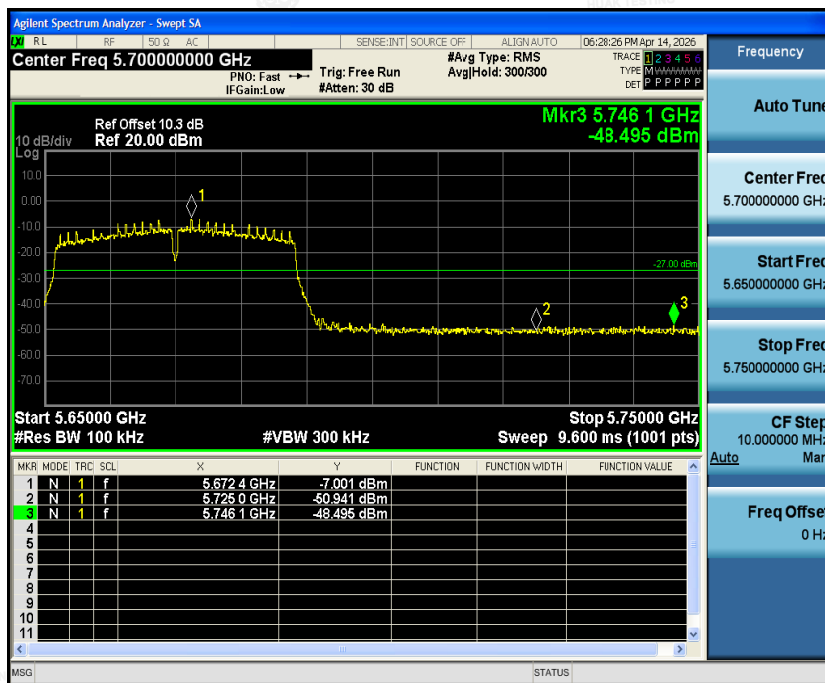


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5510MHz

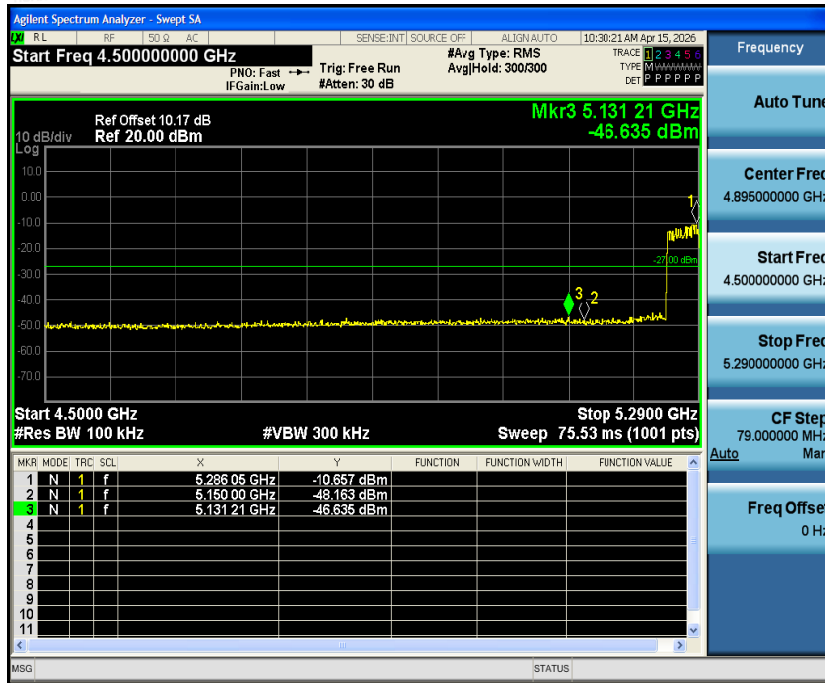


5670MHz

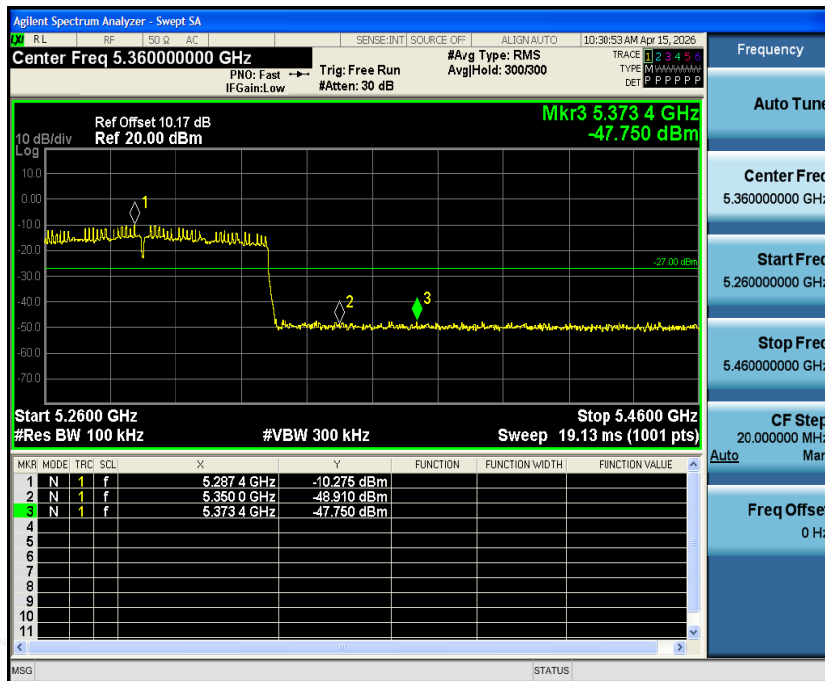


Band Edges(IEEE802.11ac HT80 mode)

5290MHz

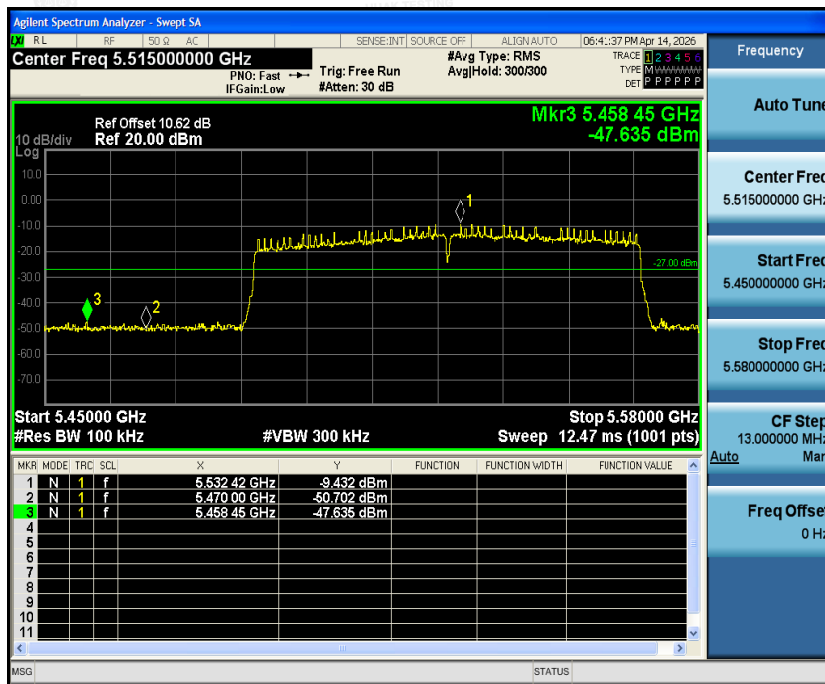


5290MHz

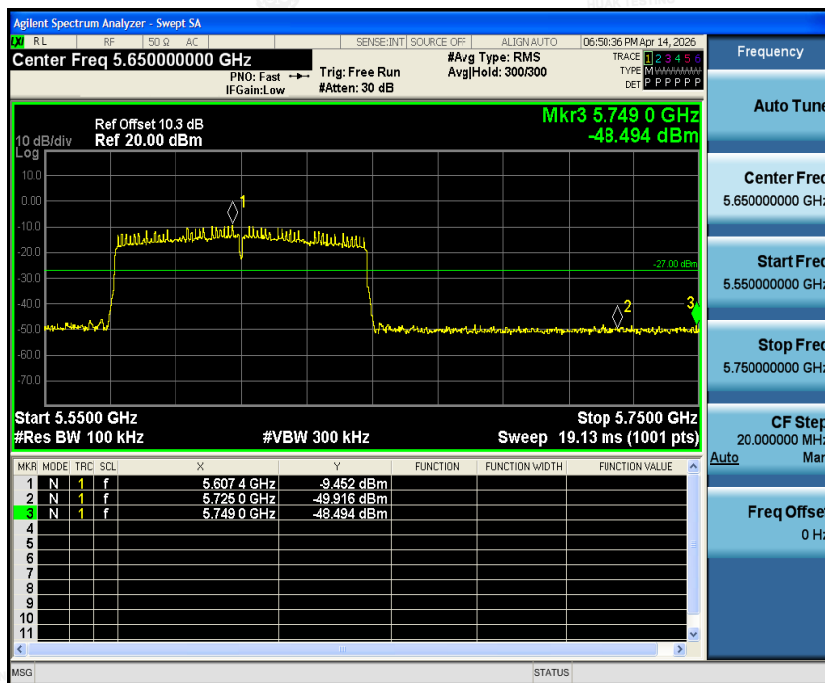


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5530MHz

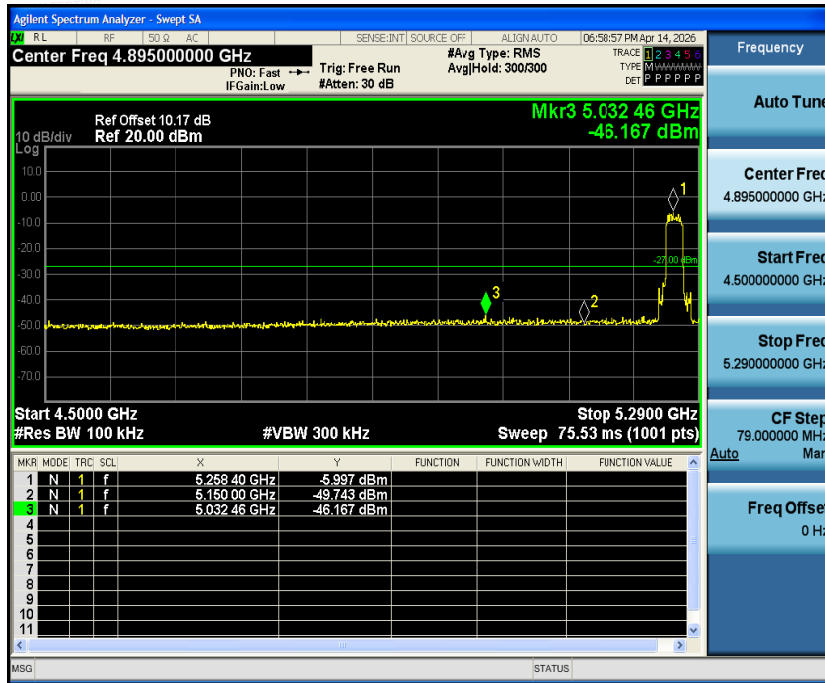


5610MHz

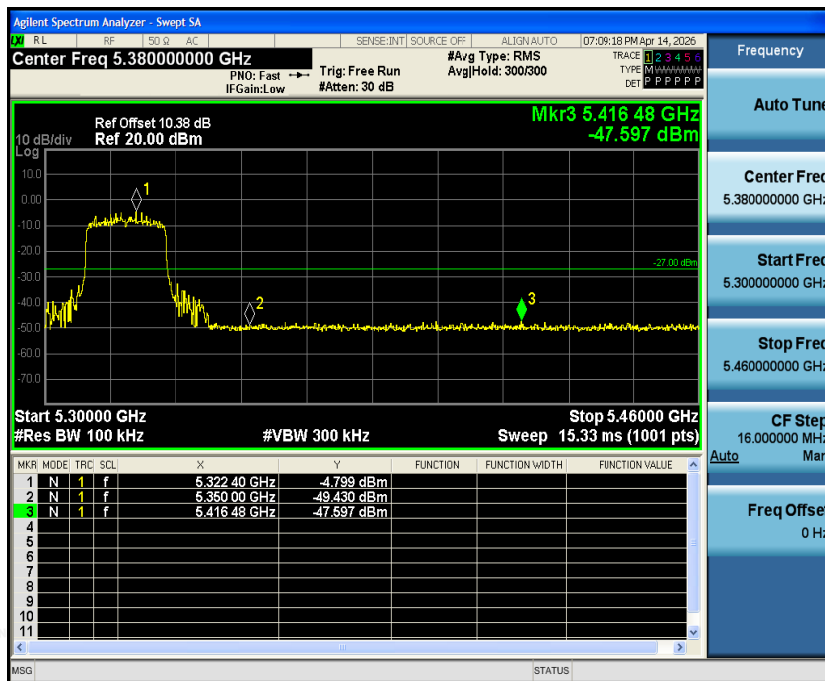


Band Edges(IEEE802.11ax HE20 mode)

5260MHz

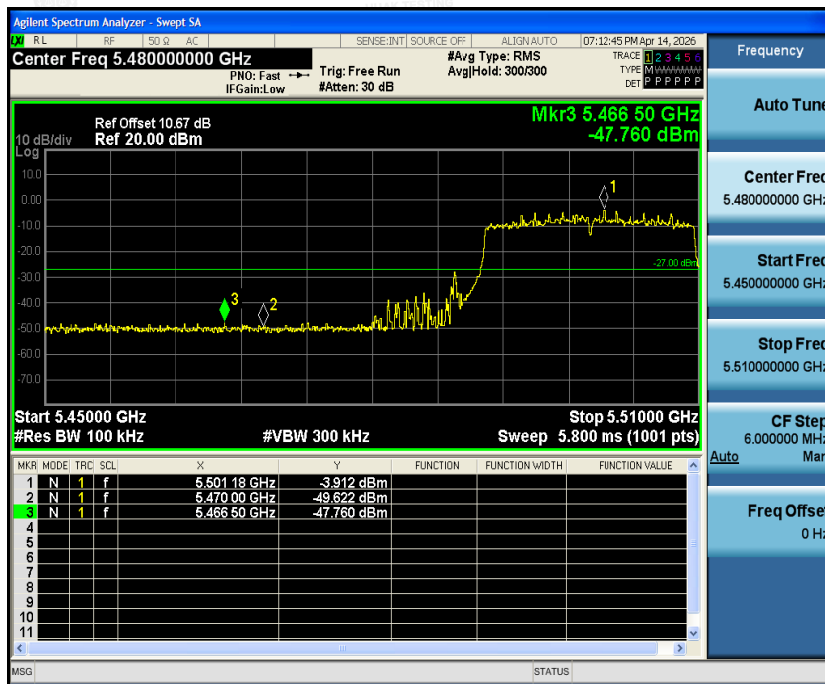


5320MHz

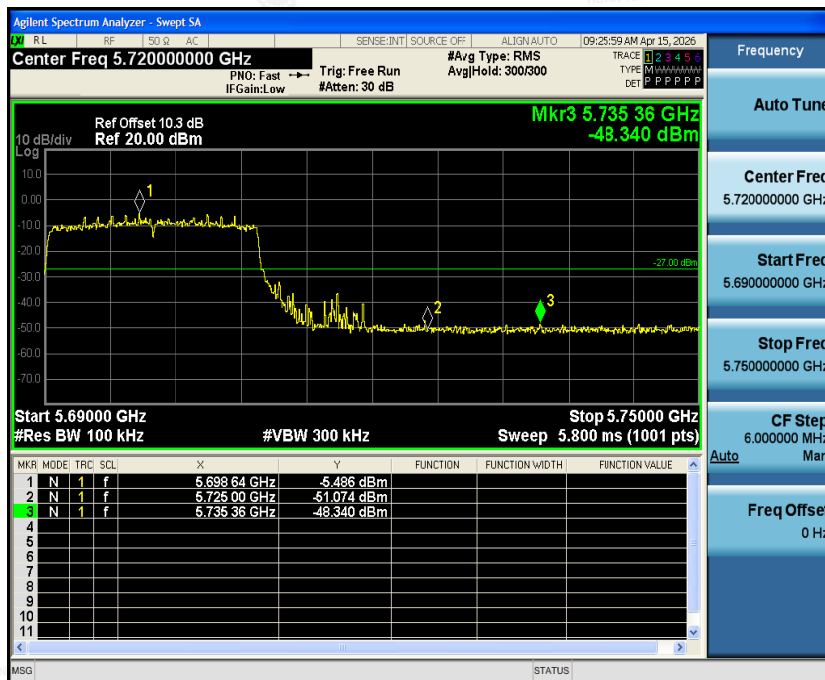


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5500MHz

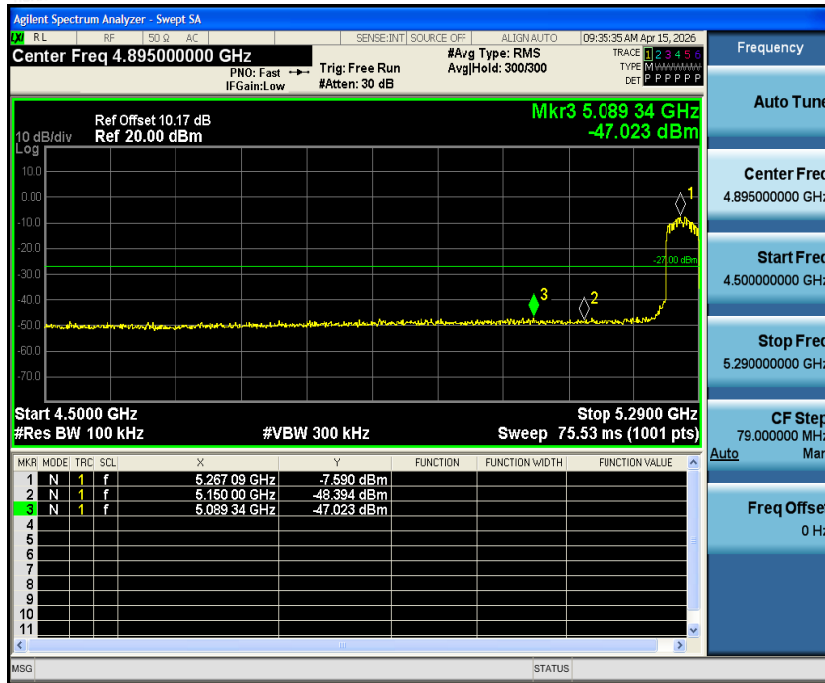


5700MHz



Band Edges(IEEE802.11ax HE40 mode)

5270MHz

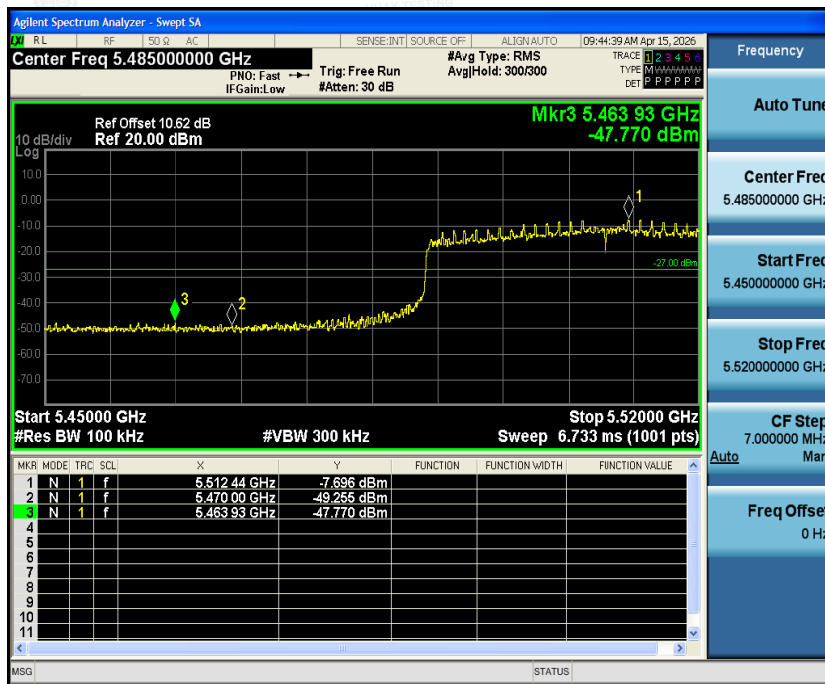


5310MHz

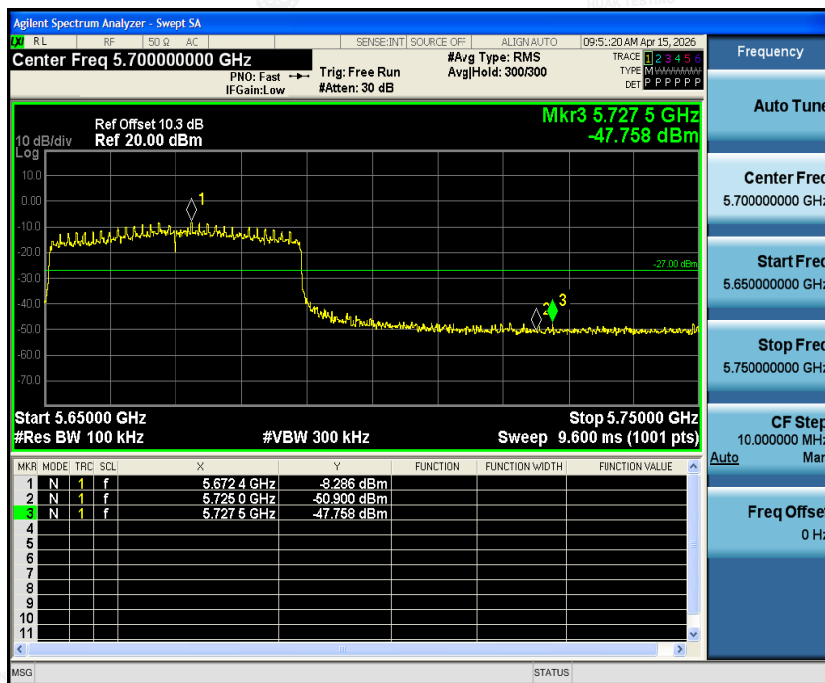


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5510MHz

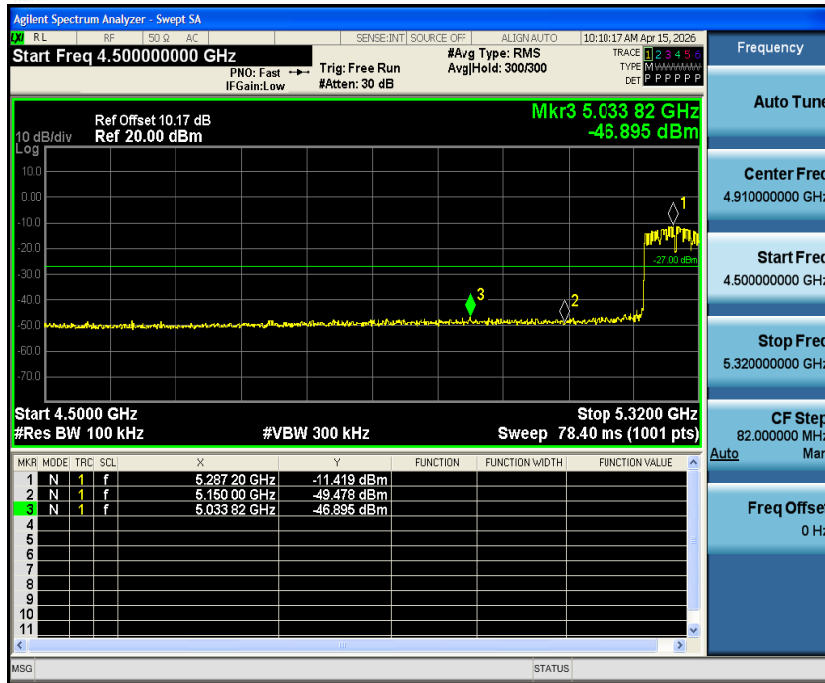


5670MHz

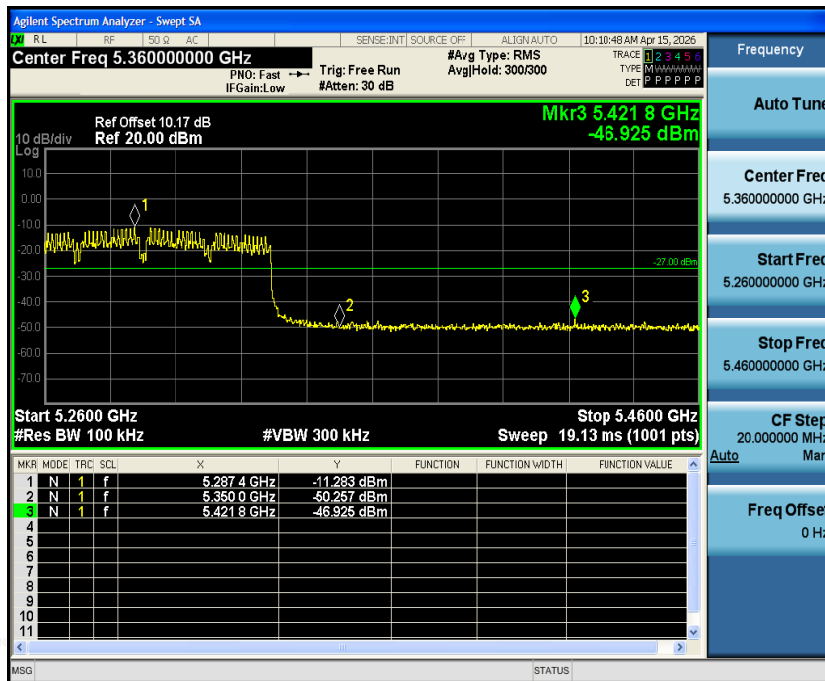


Band Edges(IEEE802.11ax HE80 mode)

5290MHz

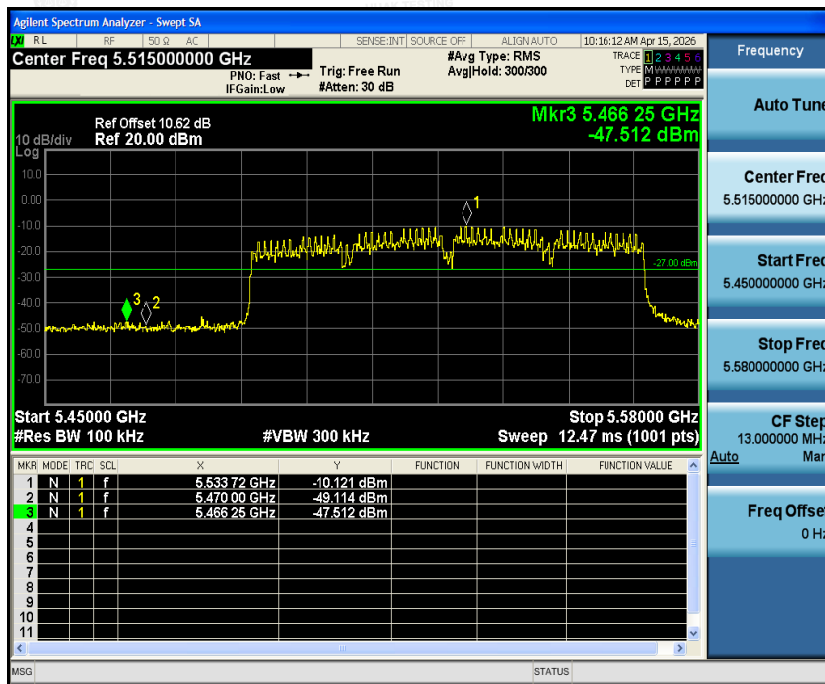


5290MHz

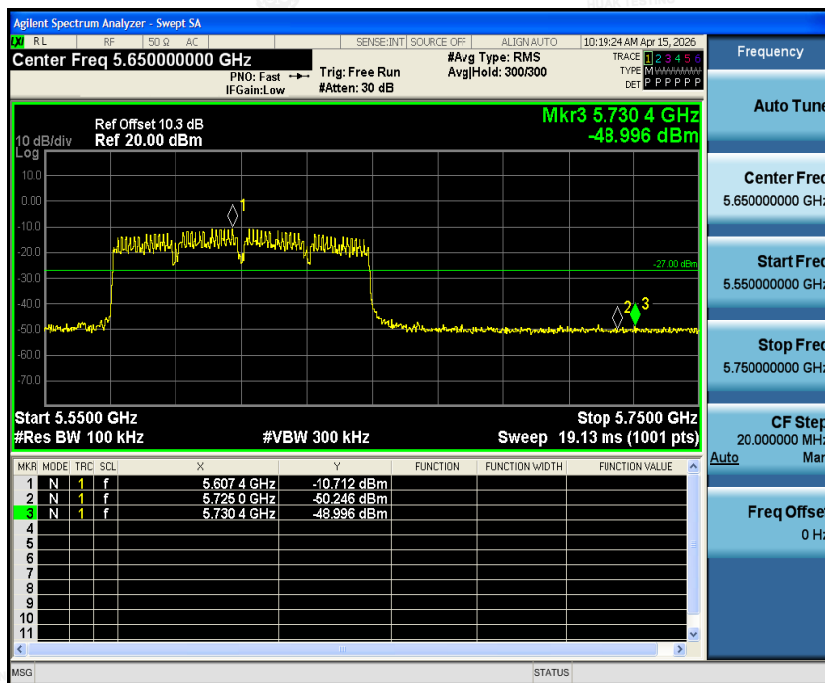


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5530MHz



5610MHz



6.4 Maximum Power Spectral Density

Limit

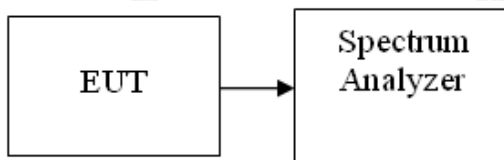
According to §15.407(a),

For mobile and portable client devices in the 5.5-5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band

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.

Test Configuration



Test Procedure

1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span must be greater than 26dB bandwidth, adjust as necessary, Sweep= auto, Detector RMS
3. Record the max. reading.

Test Results

No non-compliance noted

Test Data



Test mode: IEEE802.11a mode

5250~5350MHz

Channel	Frequency (MHz)	PSD(dBm)		Mimo	Limit(dBm)	Result
		Ant1	Ant2			
Low	5260	-4.26	-3.65	/	11	PASS
Mid	5280	-4.10	-4.83	/	11	PASS
High	5320	-4.40	-4.46	/	11	PASS

5470~5725MHz

Channel	Frequency (MHz)	PSD(dBm)		Mimo	Limit(dBm)	Result
		Ant1	Ant2			
Low	5500	-4.53	-3.71	/	11	PASS
Mid	5580	-3.48	-3.44	/	11	PASS
High	5700	-4.06	-5.32	/	11	PASS

Test mode: IEEE802.11n HT20 mode

5250~5350MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5260	-5.27	-5.44	11	PASS
Mid	5280	-4.75	-4.65	11	PASS
High	5320	-5.17	-4.08	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5260	-2.34	11	PASS
Mid	5280	-1.69	11	PASS
High	5320	-1.58	11	PASS

5470~5725MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5500	-5.37	-3.61	11	PASS
Mid	5580	-3.47	-4.24	11	PASS
High	5700	-3.41	-4.60	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5500	-1.39	11	PASS
Mid	5580	-0.83	11	PASS
High	5700	-0.95	11	PASS

Test mode: IEEE802.11n HT40 mode

5250~5350MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5270	-6.89	-6.48	11	PASS
High	5310	-6.66	-8.43	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5270	-3.67	11	PASS
High	5310	-4.45	11	PASS

5470~5725MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5510	-6.70	-6.20	11	PASS
Mid	5550	-6.75	-6.62	11	PASS
High	5670	-7.79	-6.60	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5510	-3.43	11	PASS
Mid	5550	-3.67	11	PASS
High	5670	-4.14	11	PASS

Test mode: IEEE802.11ac HT20 mode

5250~5350MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5260	-4.47	-5.05	11	PASS
Mid	5280	-4.72	-4.40	11	PASS
High	5320	-5.25	-4.45	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5260	-1.74	11	PASS
Mid	5280	-1.55	11	PASS
High	5320	-1.82	11	PASS



5470~5725MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5500	-5.27	-3.50	11	PASS
Mid	5580	-5.13	-4.60	11	PASS
High	5700	-3.67	-4.74	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5500	-1.29	11	PASS
Mid	5580	-1.85	11	PASS
High	5700	-1.16	11	PASS

Test mode: IEEE802.11ac HT40 mode

5250~5350MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5270	-6.64	-7.44	11	PASS
High	5310	-7.26	-5.88	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5270	-4.01	11	PASS
High	5310	-3.51	11	PASS

5470~5725MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5510	-7.27	-7.87	11	PASS
Mid	5550	-5.87	-6.24	11	PASS
High	5670	-6.61	-7.03	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5510	-4.55	11	PASS
Mid	5550	-3.04	11	PASS
High	5670	-3.80	11	PASS

Test mode: IEEE802.11ac HT80 mode

5250~5350MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5290	-9.26	-9.31	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5290	-6.27	11	PASS

5470~5725MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5530	-8.66	-8.98	11	PASS
High	5610	-8.75	-8.91	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5530	-5.81	11	PASS
High	5610	-5.82	11	PASS

Test mode: IEEE802.11ax HE20 mode

5250~5350MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5260	-3.85	-5.35	11	PASS
Mid	5280	-5.12	-4.65	11	PASS
High	5320	-4.38	-3.83	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5260	-1.53	11	PASS
Mid	5280	-1.87	11	PASS
High	5320	-1.09	11	PASS

5470~5725MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5500	-4.80	-3.70	11	PASS
Mid	5580	-2.65	-4.79	11	PASS
High	5700	-3.69	-4.92	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5500	-1.20	11	PASS
Mid	5580	-0.58	11	PASS
High	5700	-1.25	11	PASS

Test mode: IEEE802.11ax HE40 mode

5250~5350MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5270	-7.24	-7.22	11	PASS
High	5310	-7.03	-6.73	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5270	-4.22	11	PASS
High	5310	-3.87	11	PASS

5470~5725MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5510	-6.71	-6.96	11	PASS
Mid	5550	-5.48	-6.16	11	PASS
High	5670	-6.23	-8.07	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5510	-3.82	11	PASS
Mid	5550	-2.80	11	PASS
High	5670	-4.04	11	PASS

Test mode: IEEE802.11ax HE80 mode

5250~5350MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5290	-10.80	-10.16	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5290	-7.46	11	PASS

5470~5725MHz

Channel	Frequency (MHz)	PSD(dBm)		Limit(dBm)	Result
		Ant1	Ant2		
Low	5530	-9.81	-8.72	11	PASS
High	5610	-10.43	-9.54	11	PASS

Channel	Frequency (MHz)	Mimo	Limit(dBm)	Result
Low	5530	-6.22	11	PASS
High	5610	-6.95	11	PASS

Note:

1. Duty factor has been off seted with cable loss
2. According to KDB 662911, Result power = $10\log(10(\text{ant1}/10)+10(\text{ant2}/10))$.
3. Result unit: W, The end result is converted to units of dBm.

5.3G MIMO limit=11dBm

5.6G MIMO limit=11dBm

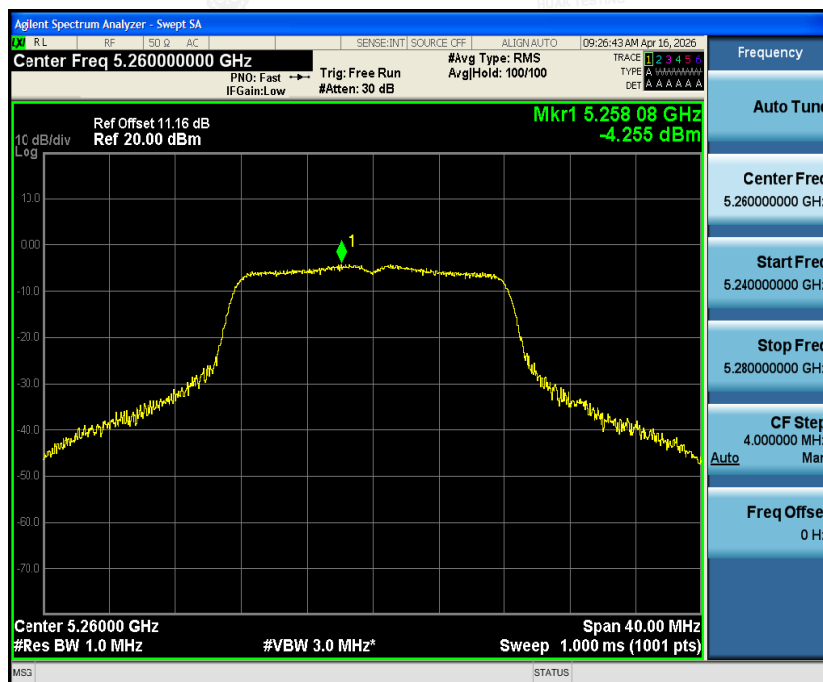


HUAKE TESTING

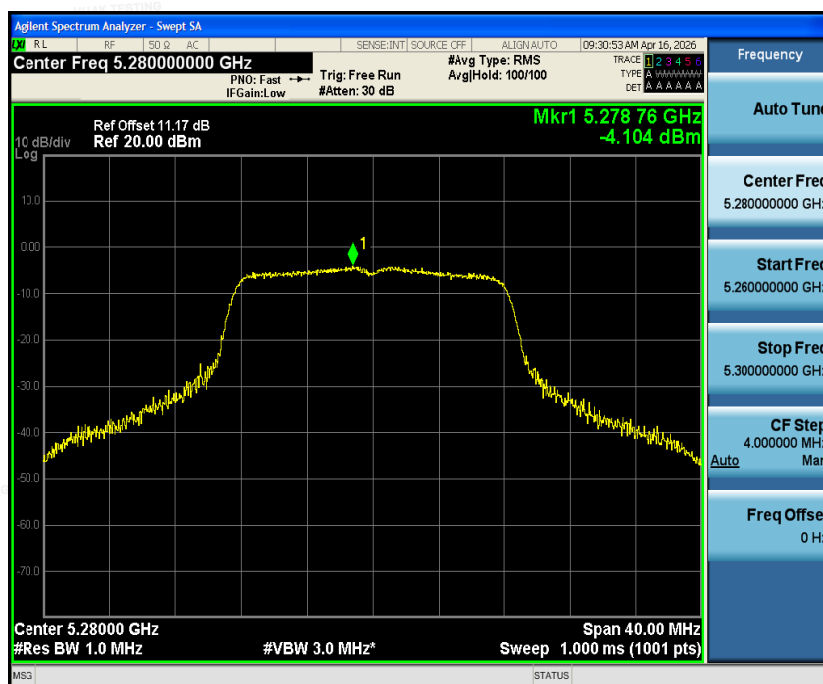
Test Plot
Antenna 1
IEEE802.11a mode:

5250~5350MHz

Low Channel

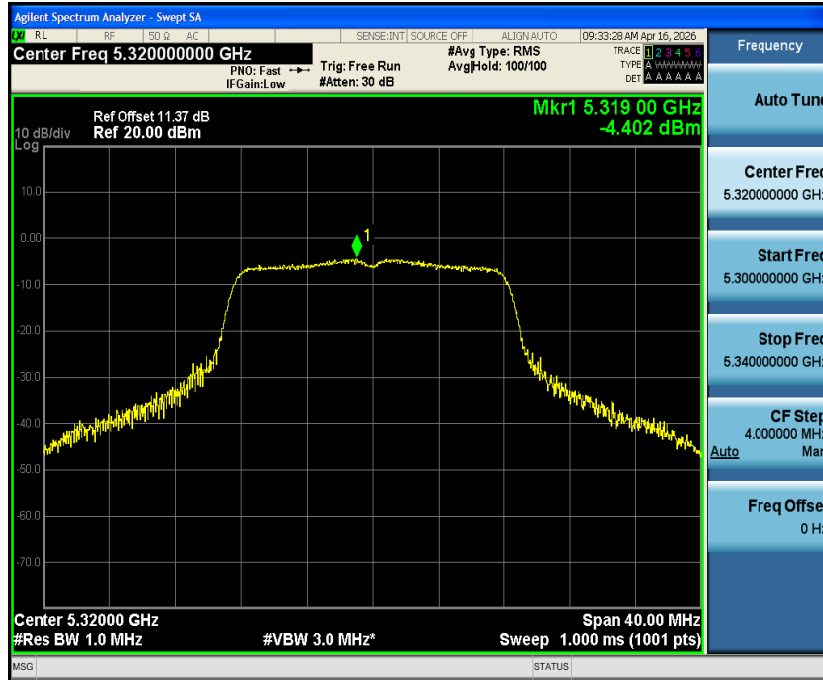


Mid Channel



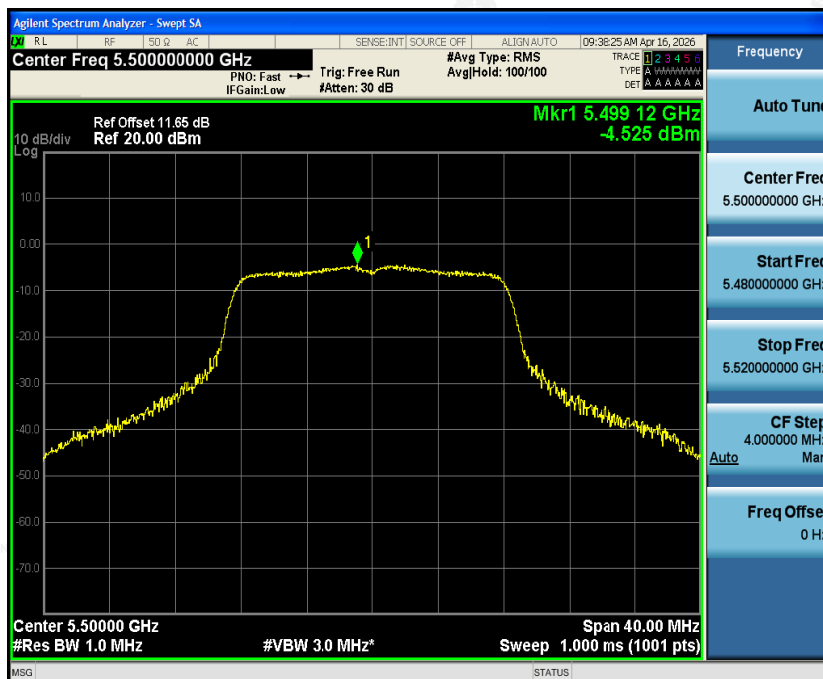
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High Channel



5470~5725MHz

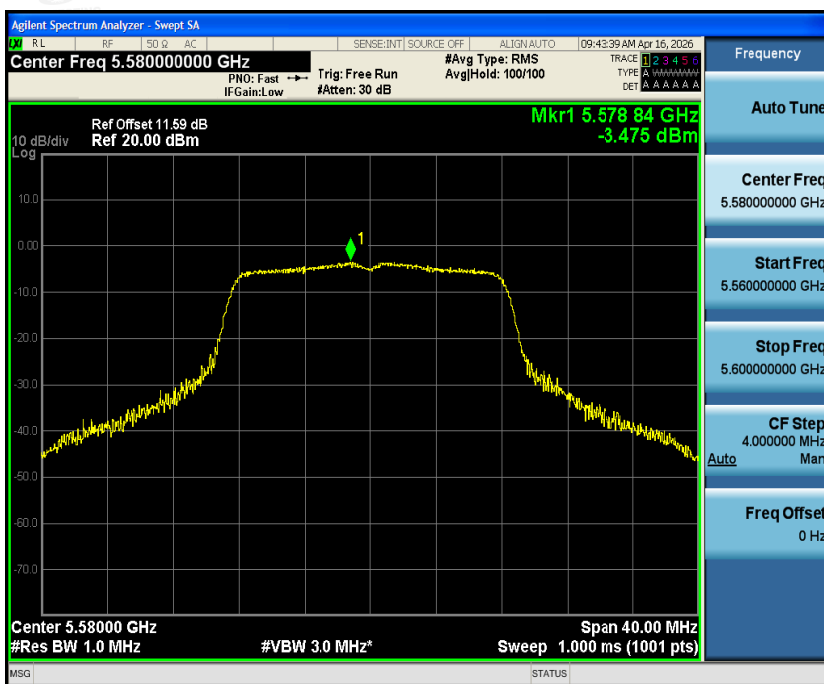
Low Channel



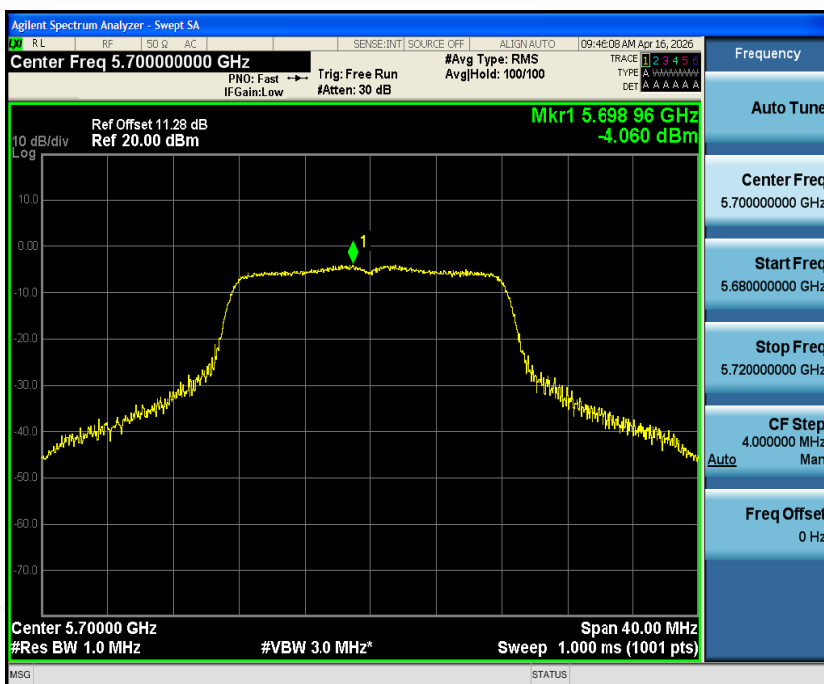
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Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Mid Channel



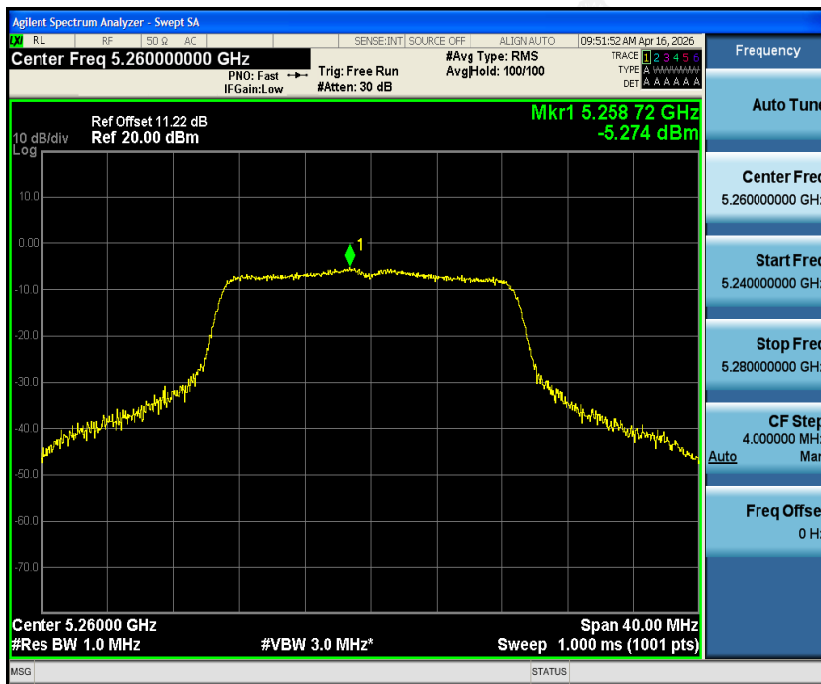
High Channel



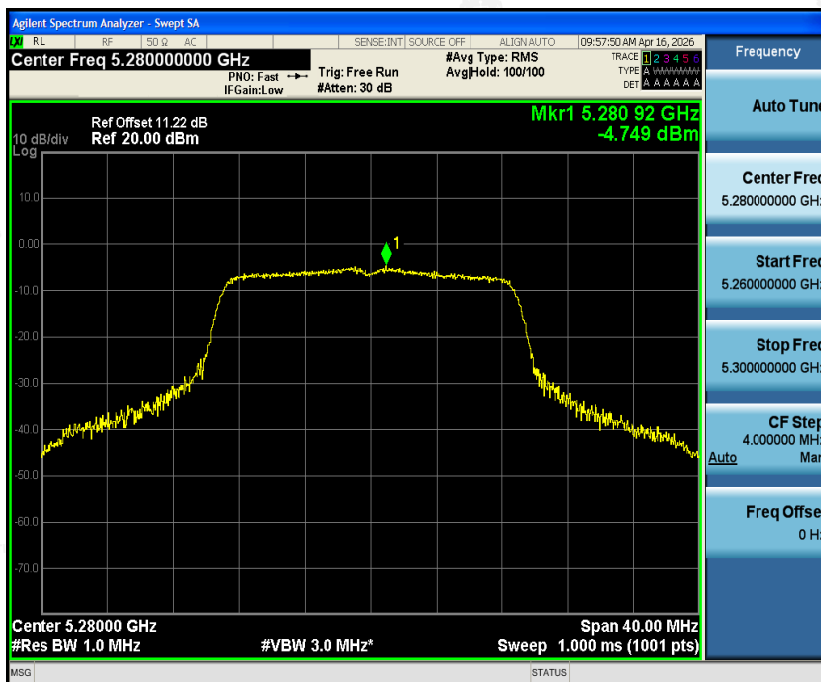
IEEE802.11n HT20 mode

5250~5350MHz

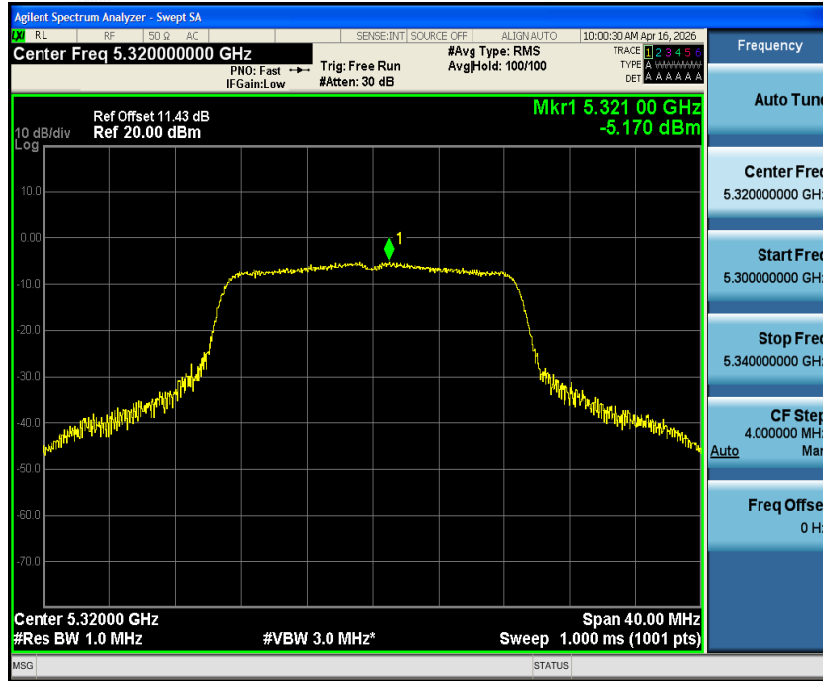
Low Channel



Mid Channel

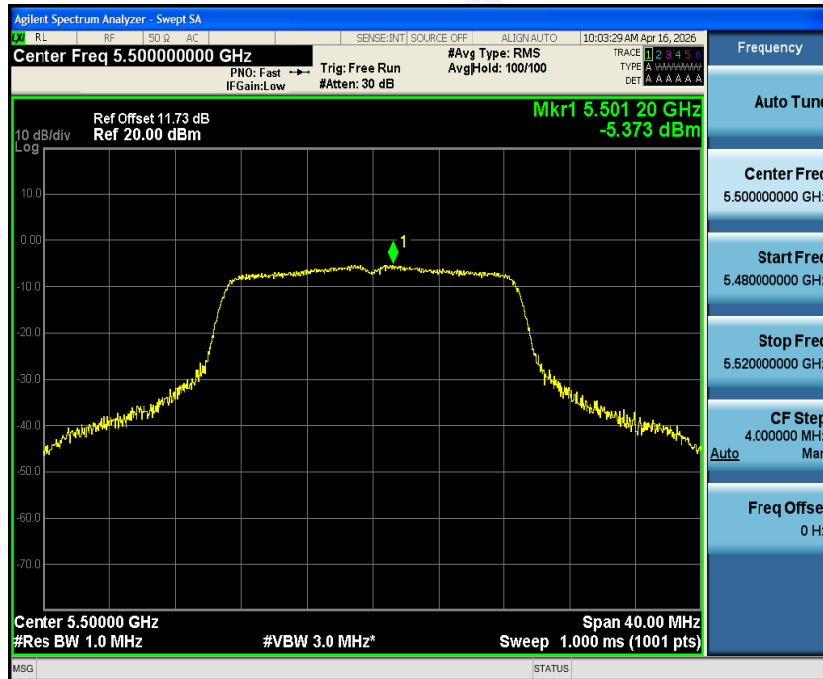


High Channel



5470~5725MHz

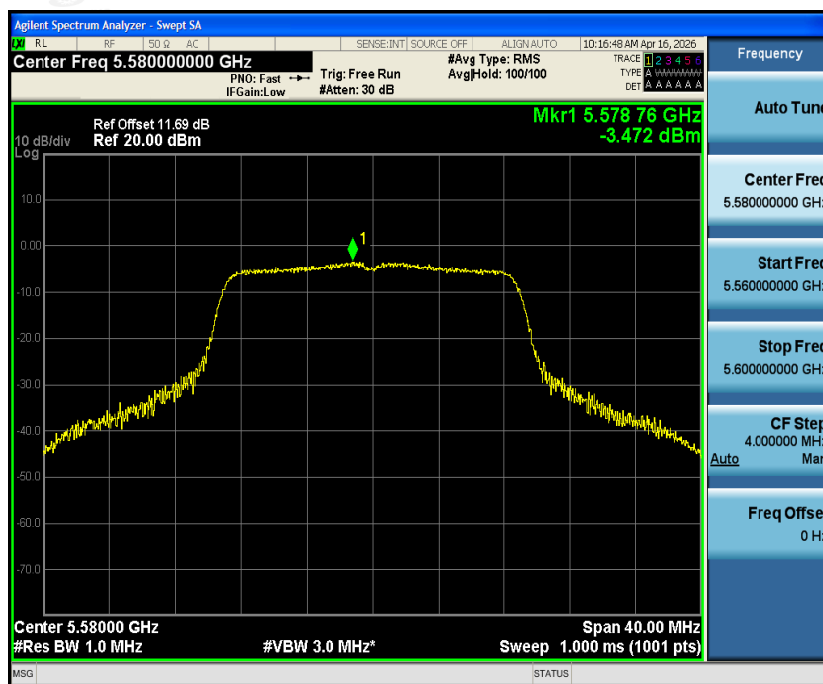
Low Channel



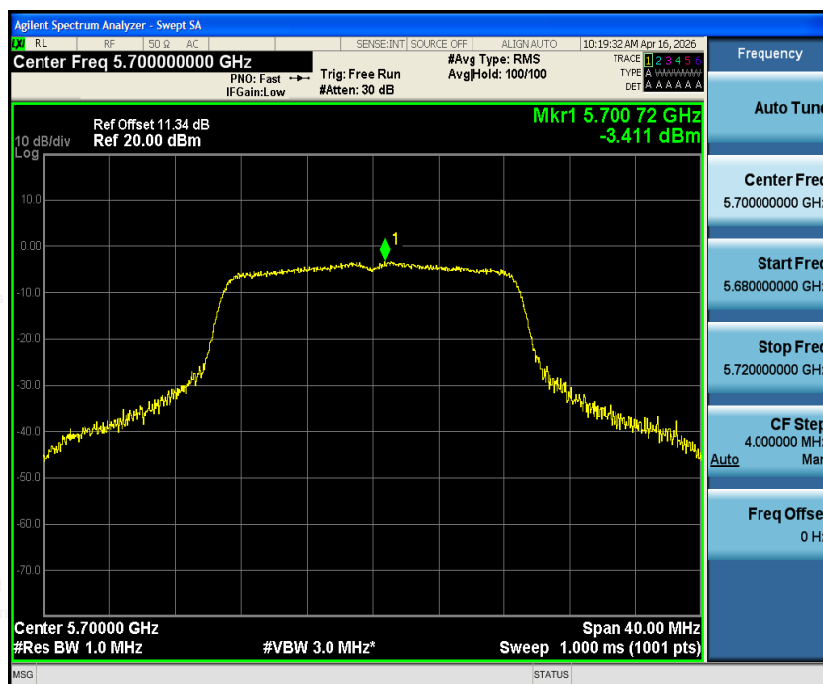
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Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Mid Channel



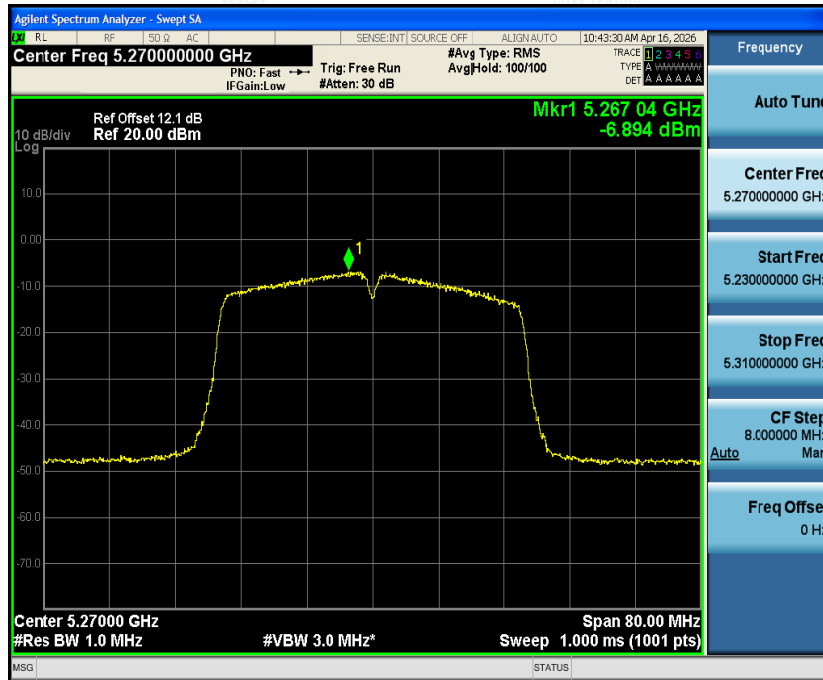
High Channel



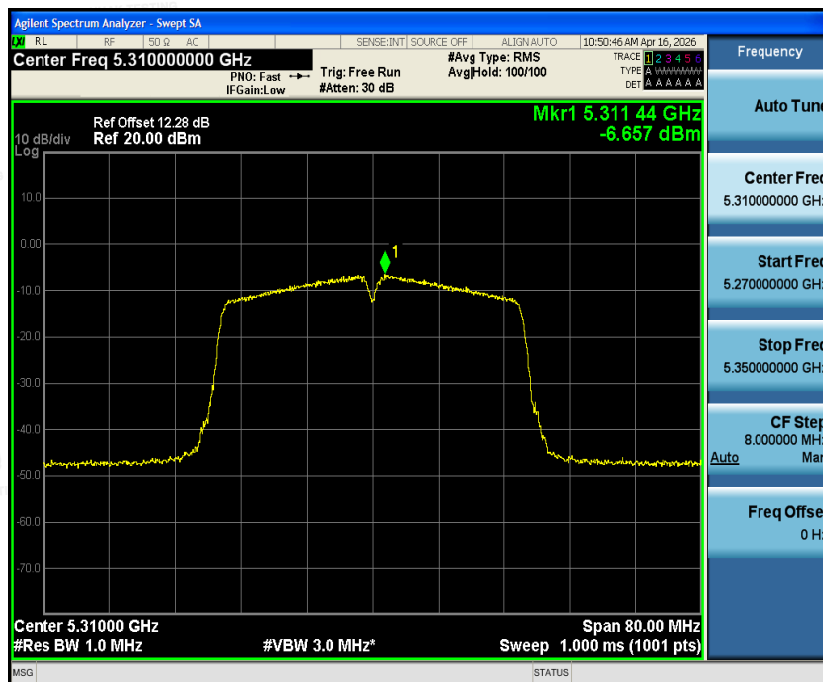
IEEE802.11n HT40 mode

5250~5350MHz

Low Channel



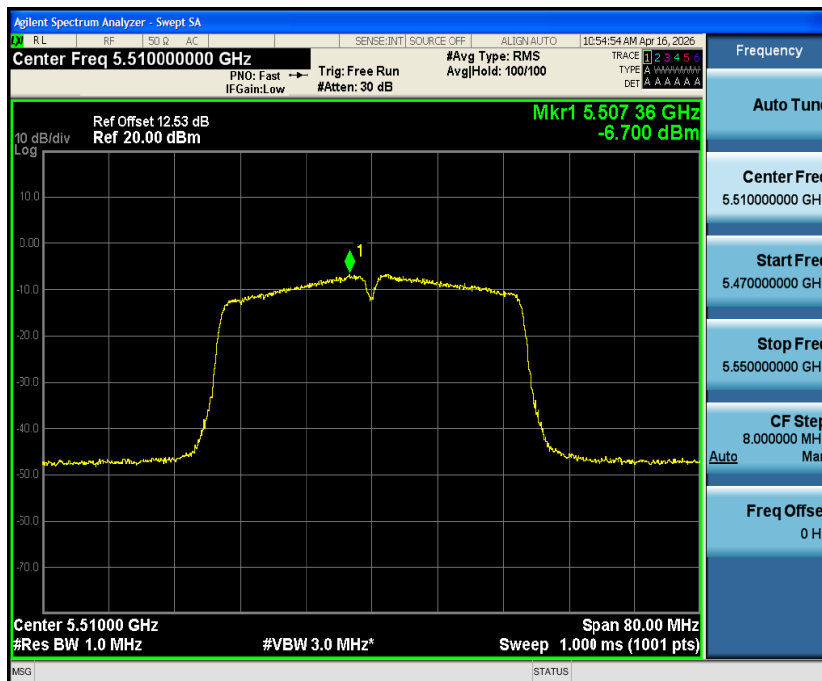
High Channel



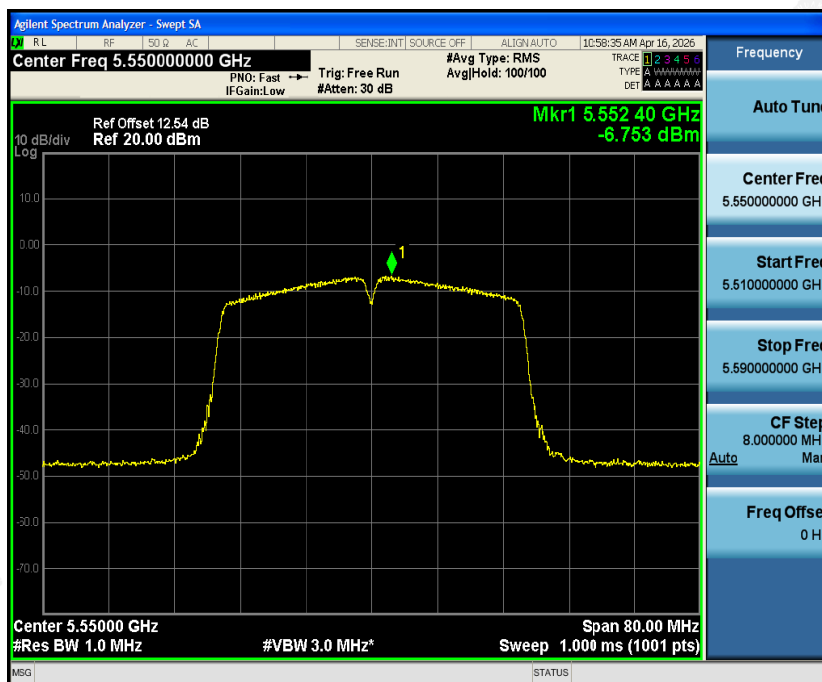
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5470~5725MHz

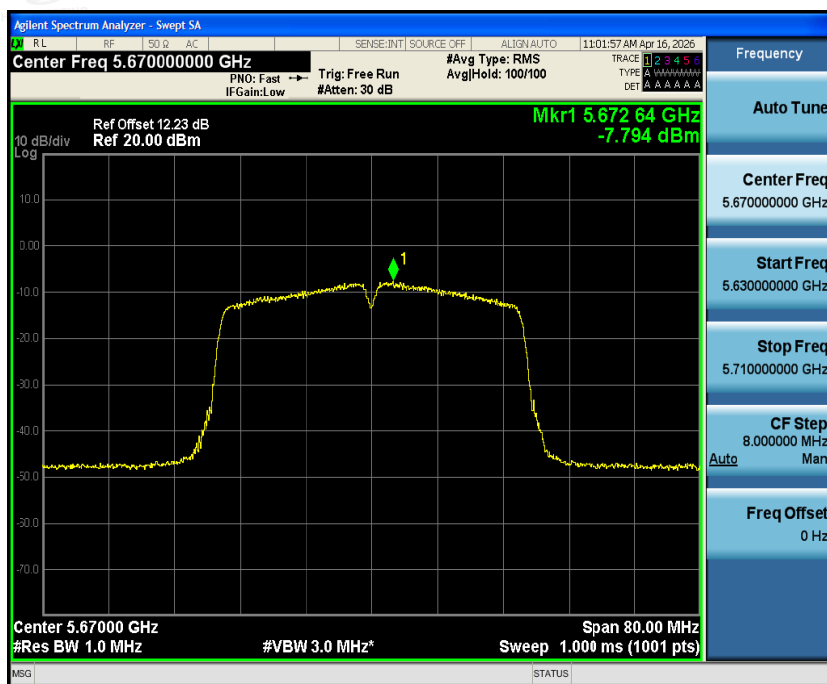
Low Channel



Mid Channel



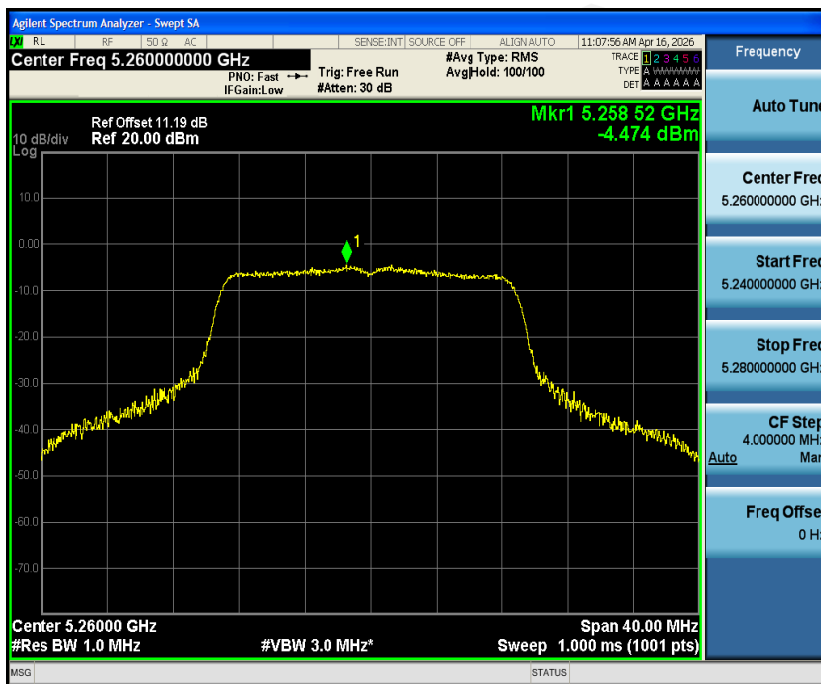
High Channel



IEEE802.11ac HT20 mode

5250~5350MHz

Low Channel



Mid Channel



High Channel

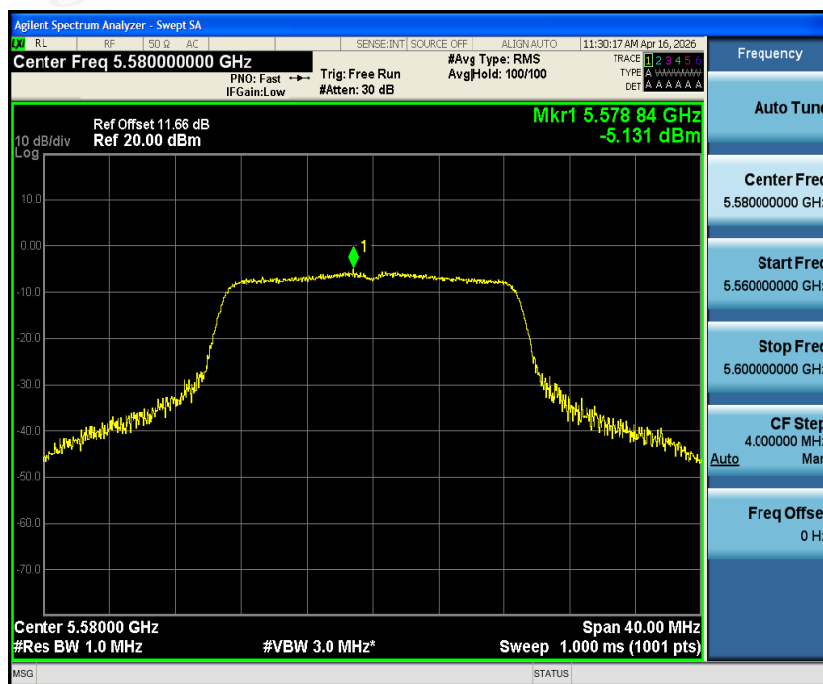


5470~5725MHz

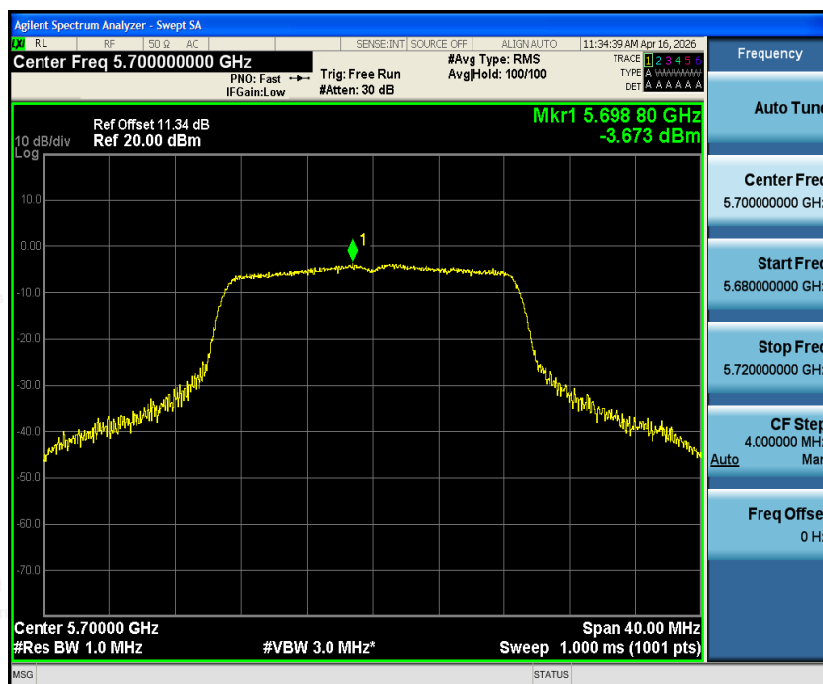
Low Channel



Mid Channel



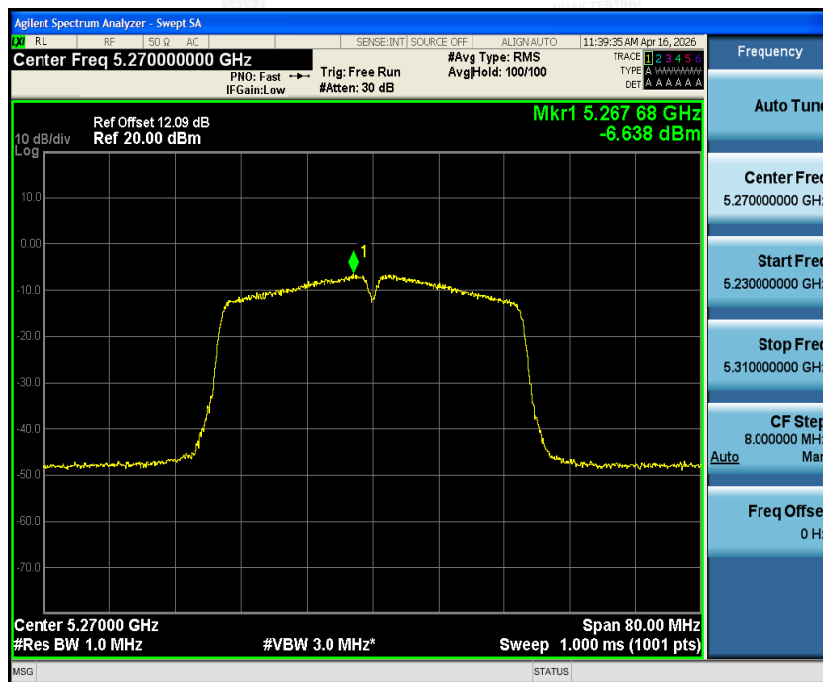
High Channel



IEEE802.11ac HT40 mode

5250~5350MHz

Low Channel



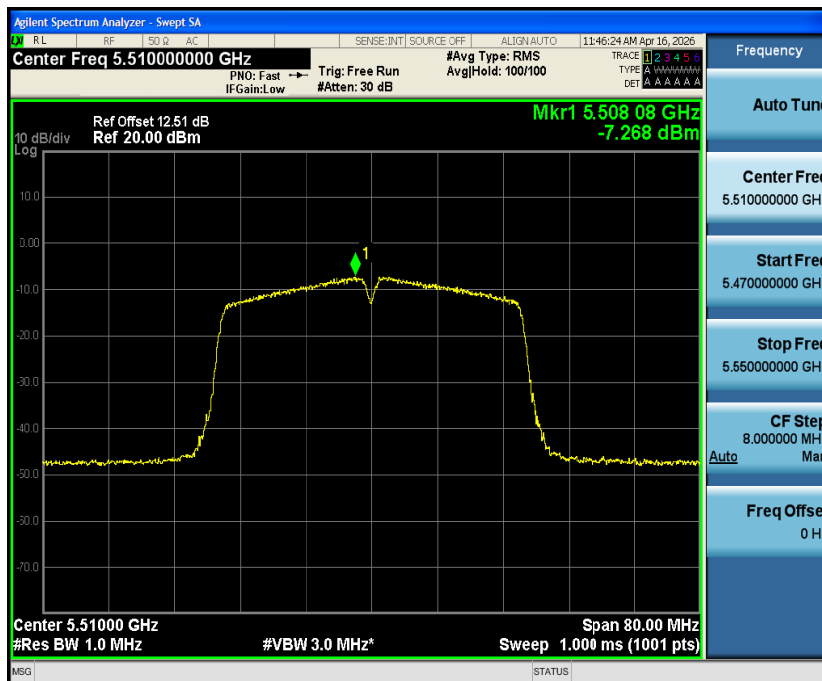
High Channel



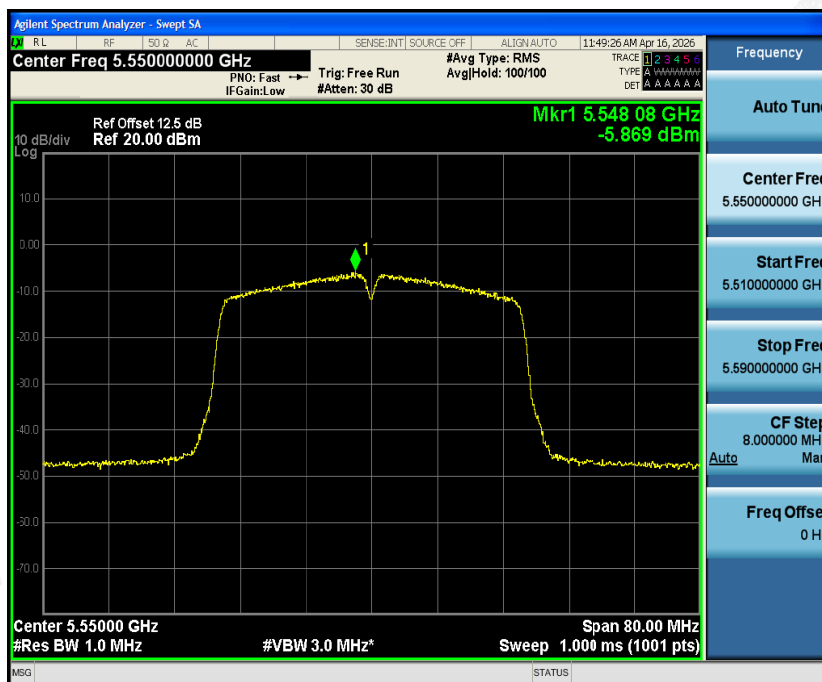
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5470~5725MHz

Low Channel



Mid Channel



High Channel



IEEE802.11ac HT80 mode

5250~5350MHz



5470~5725MHz

Low Channel



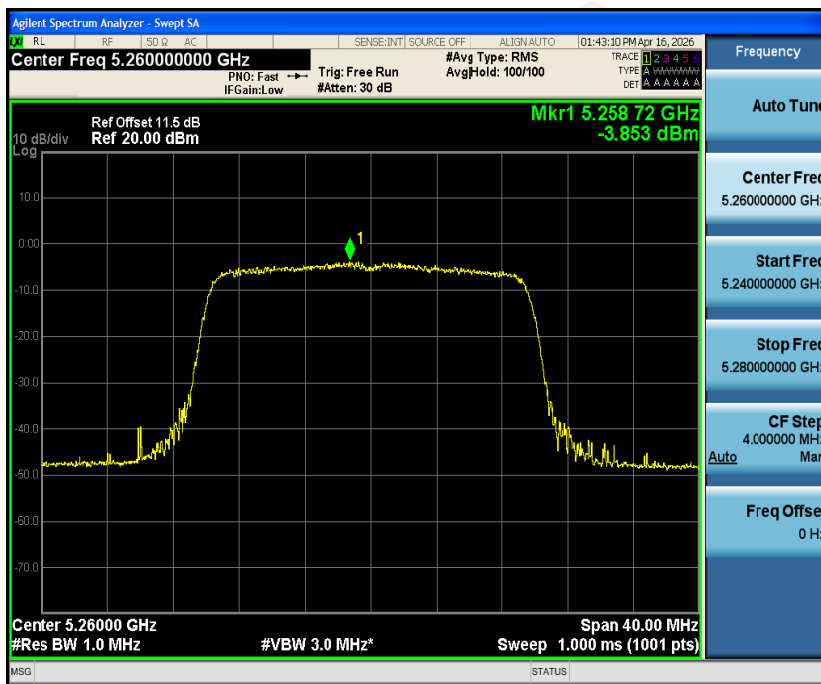
High Channel



IEEE802.11ax HE20 mode

5250~5350MHz

Low Channel

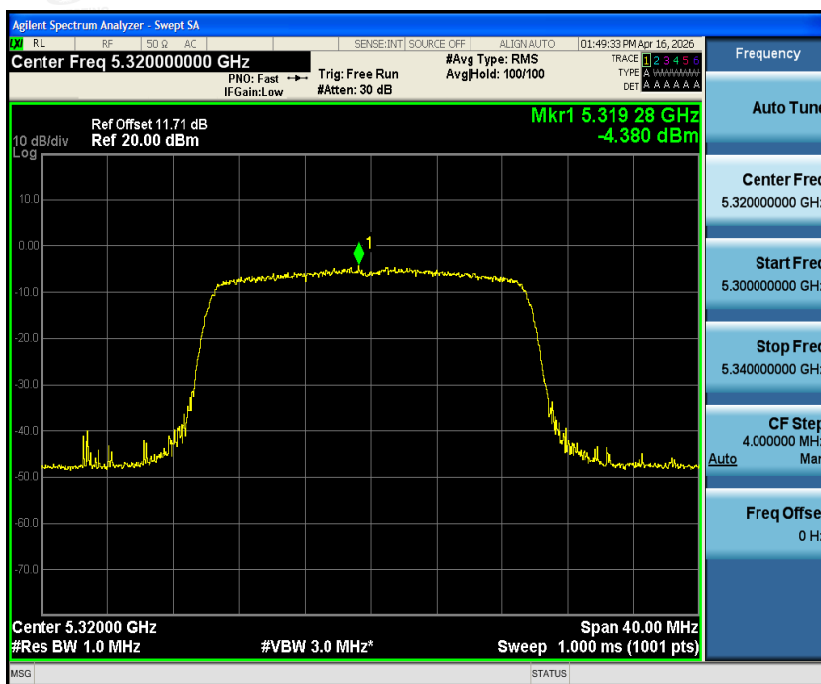


Mid Channel



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High Channel



5470~5725MHz

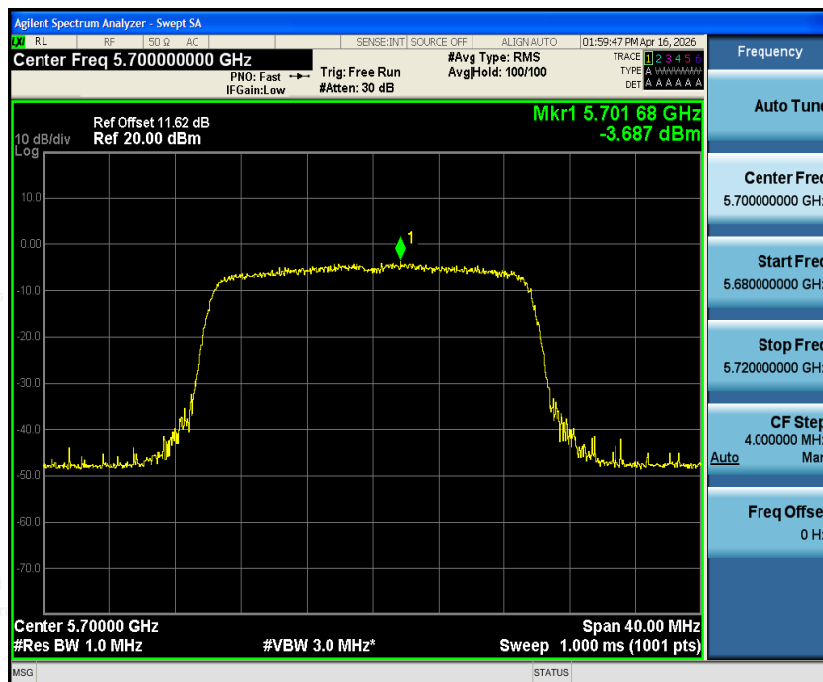
Low Channel



Mid Channel



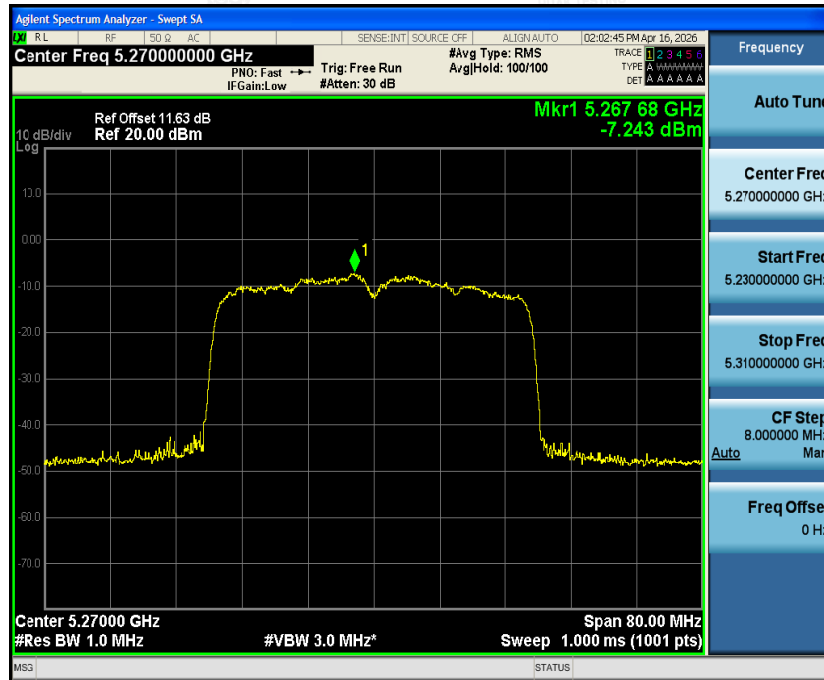
High Channel



IEEE802.11ax HE40 mode

5250~5350MHz

Low Channel



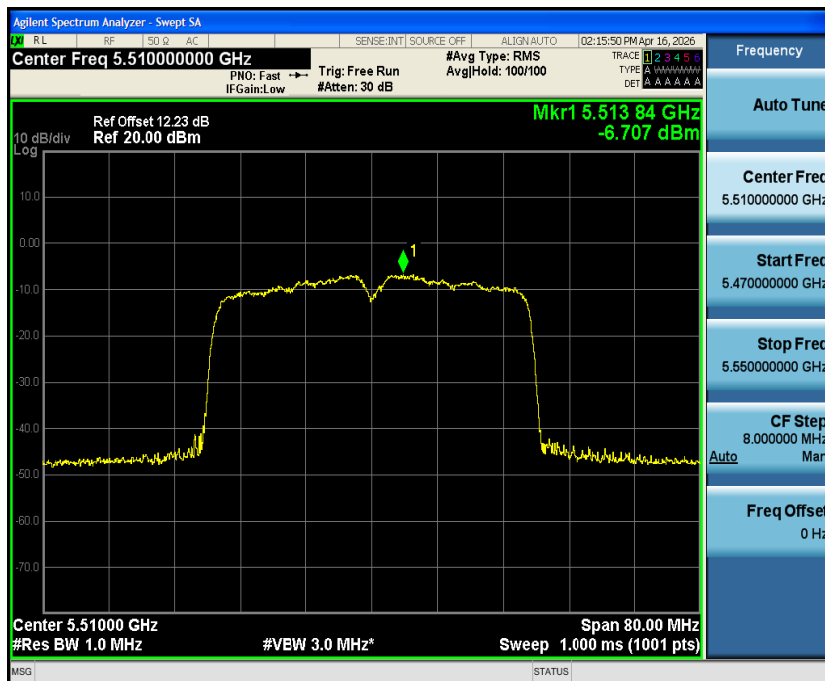
High Channel



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5470~5725MHz

Low Channel

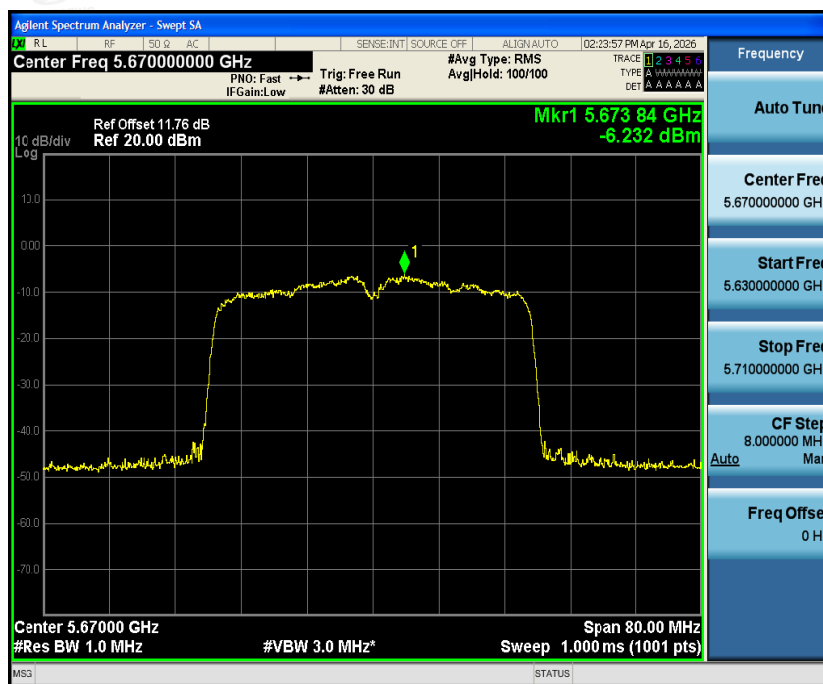


Mid Channel



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High Channel



IEEE802.11ax HE80 mode

5250~5350MHz



5470~5725MHz

Low Channel



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High Channel





5250~5350MHz

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT SOURCE OFF ALIGN:AUTO 03:15:06 PM Apr 14, 2026

Center Freq 5.260000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS ArgHold: 100/100 TRACE 1 2 3 4 5 6 TYPE A WAAAAA DET A A A A A A

Ref Offset 11.15 dB Ref 20.00 dBm

Mkr1 5.258 24 GHz -3.647 dBm

10 dB/div Log

Center 5.26000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Span 40.0 MHz Sweep 1.000 ms (1001 pts)

MS1 STATUS

Frequency

Auto Tune

Center Freq 5.26000000 GHz

Start Freq 5.24000000 GHz

Stop Freq 5.28000000 GHz

CF Step 4.000000 MHz

Auto Man

Freq Offset 0 Hz

Agilent Spectrum Analyzer - Swept SA

RL RF 150 Q AC SENSE:INT SOURCE OFF ALIGN: AUTO 03:19:27 PM Apr 14, 2026

Center Freq 5.280000000 GHz PNO: Fast → Trig: Free Run #Avg Type: RMS
IFGain: Low #Atten: 30 dB ArgHold: 100/100

TRACE 1 2 3 4 5 6
TYPE A W W W W W W W W
DET A A A A A A

Ref Offset 11.15 dB
Ref 20.00 dBm

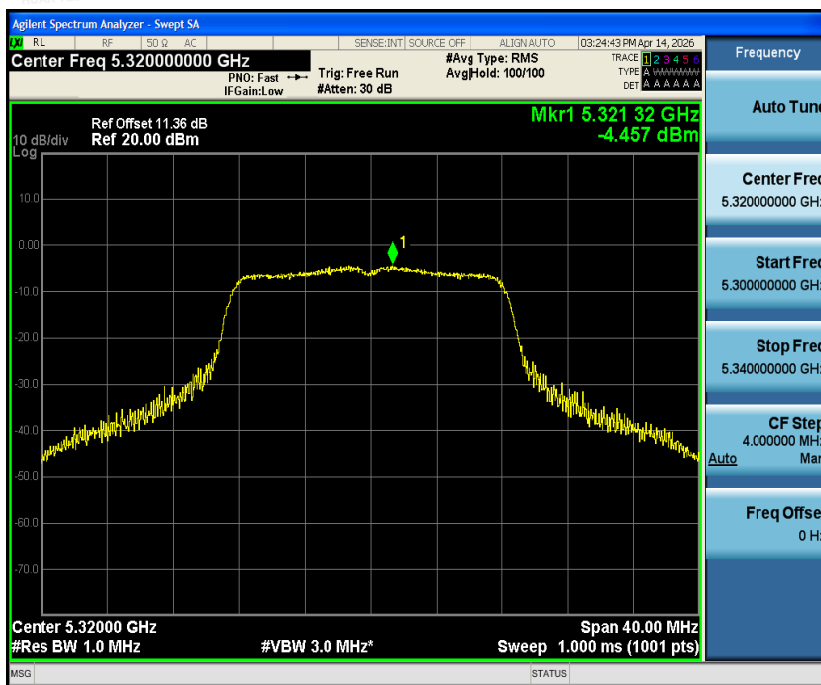
**Mkr1 5.278 84 GHz
-4.832 dBm**

Center 5.28000 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz* Span 40.0 MHz
Sweep 1.000 ms (1001 pts)

MS1 STATUS

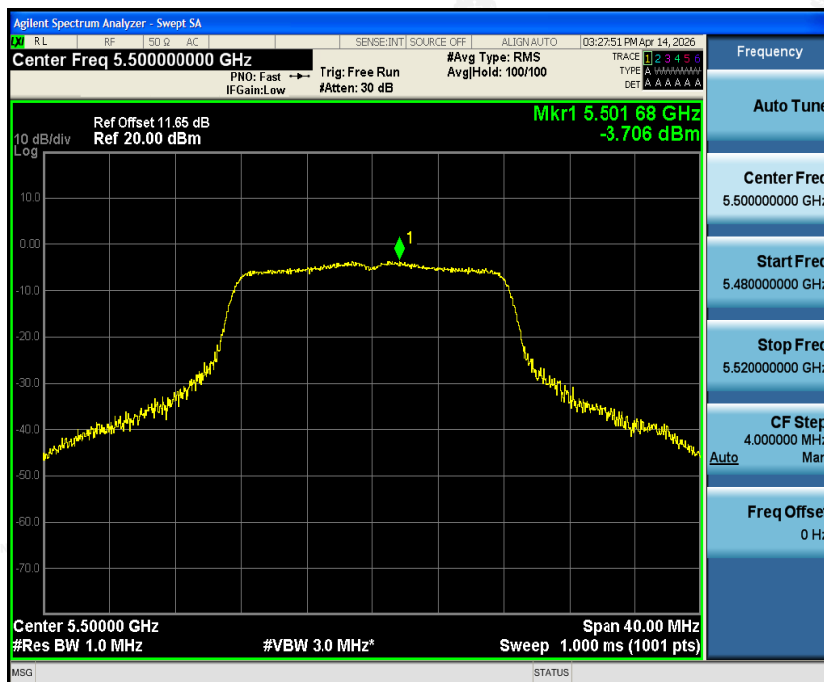
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Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

High Channel

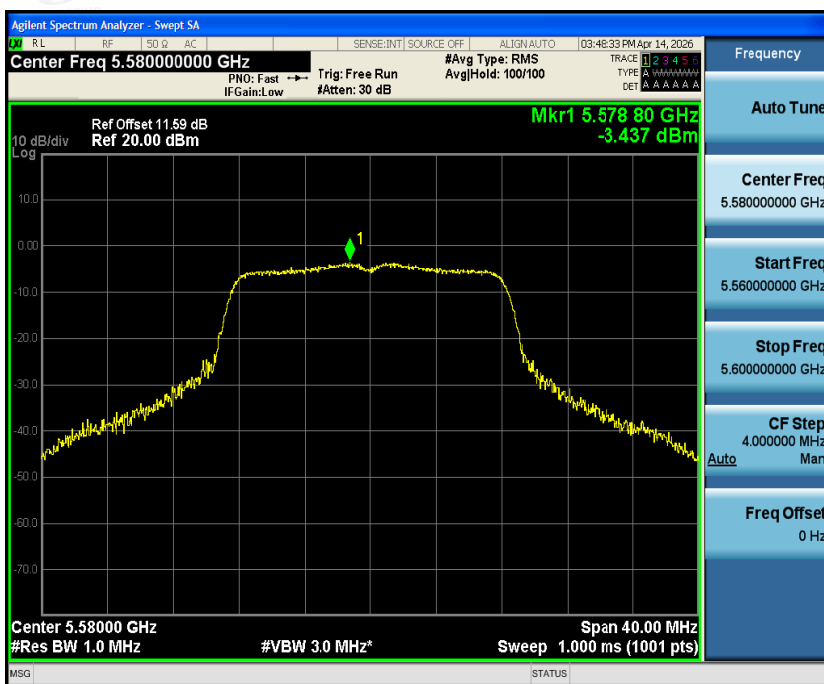


5470~5725MHz

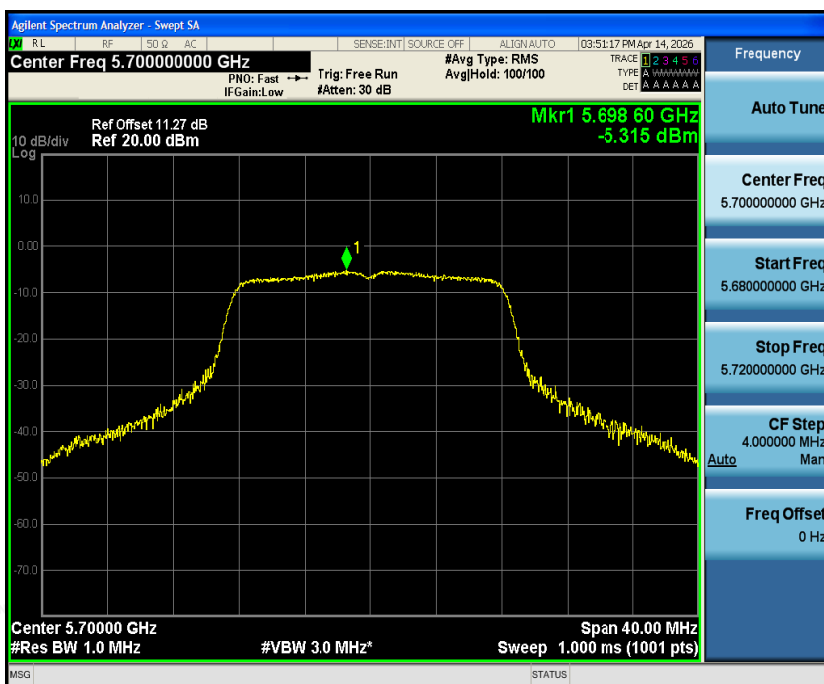
Low Channel



Mid Channel



High Channel



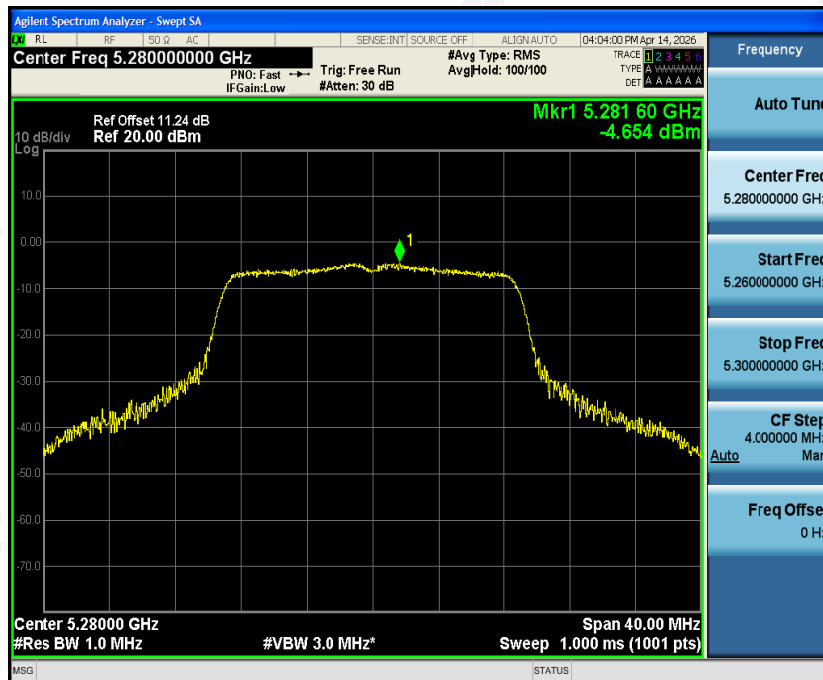
IEEE802.11n HT20 mode

5250~5350MHz

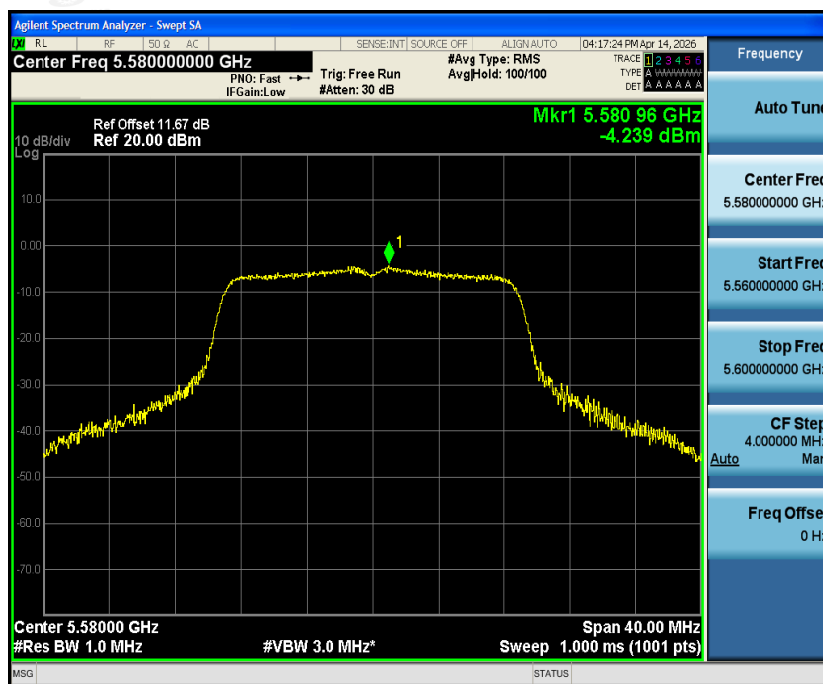
Low Channel



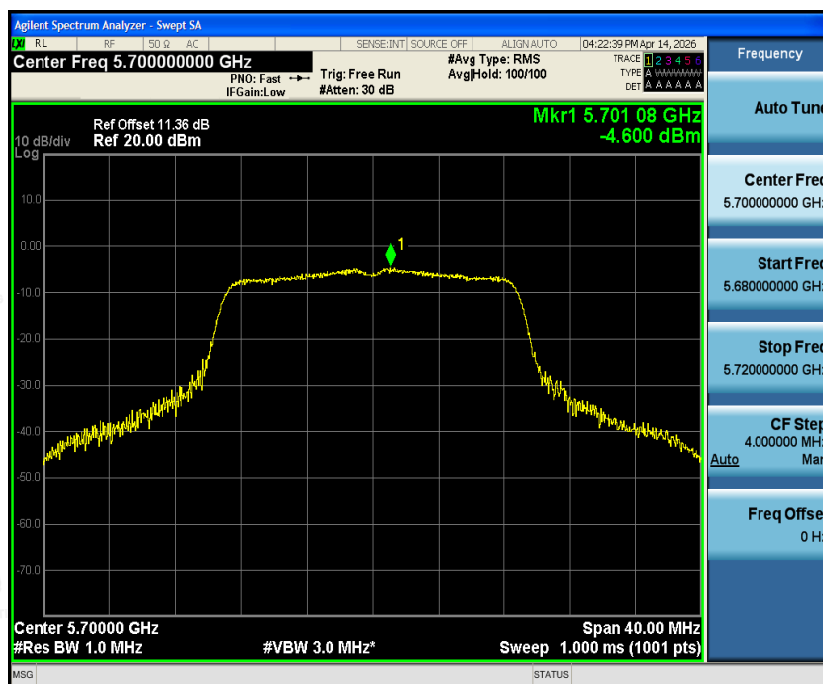
Mid Channel



Mid Channel



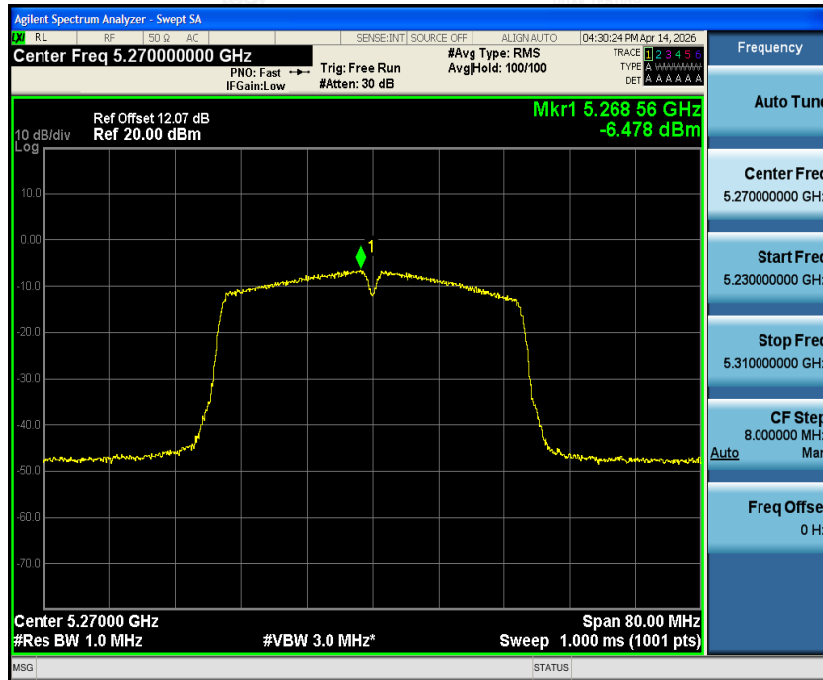
High Channel



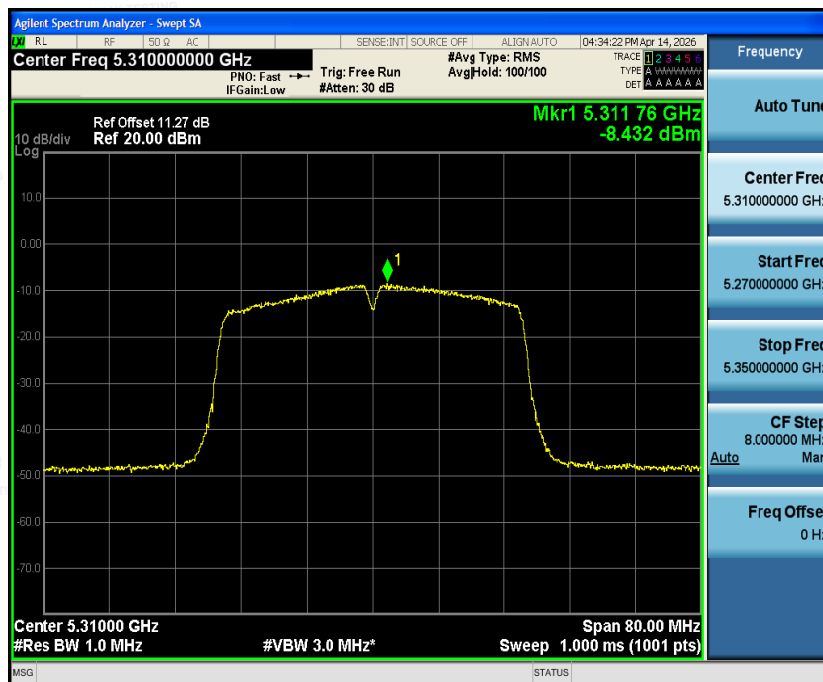
IEEE802.11n HT40 mode

5250~5350MHz

Low Channel



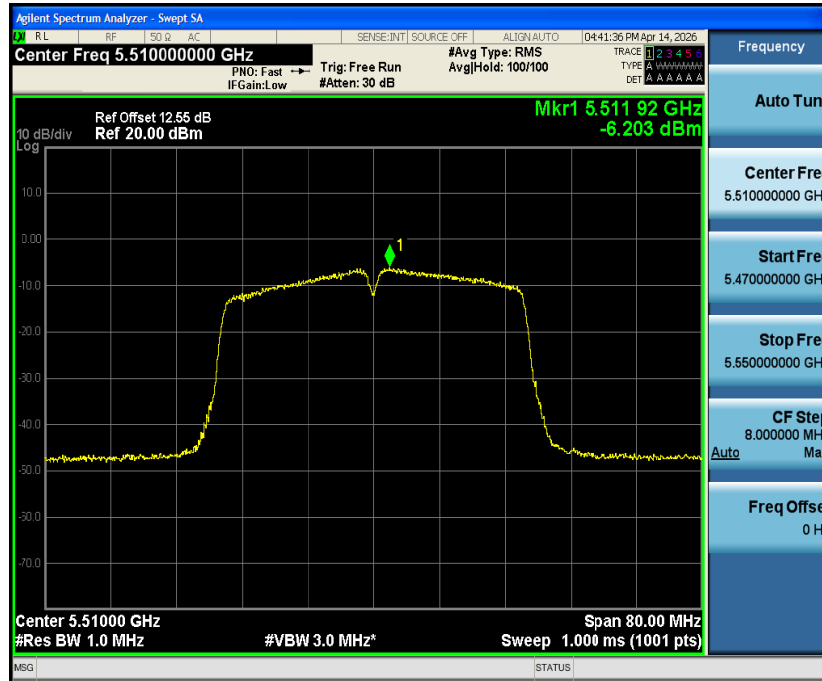
High Channel



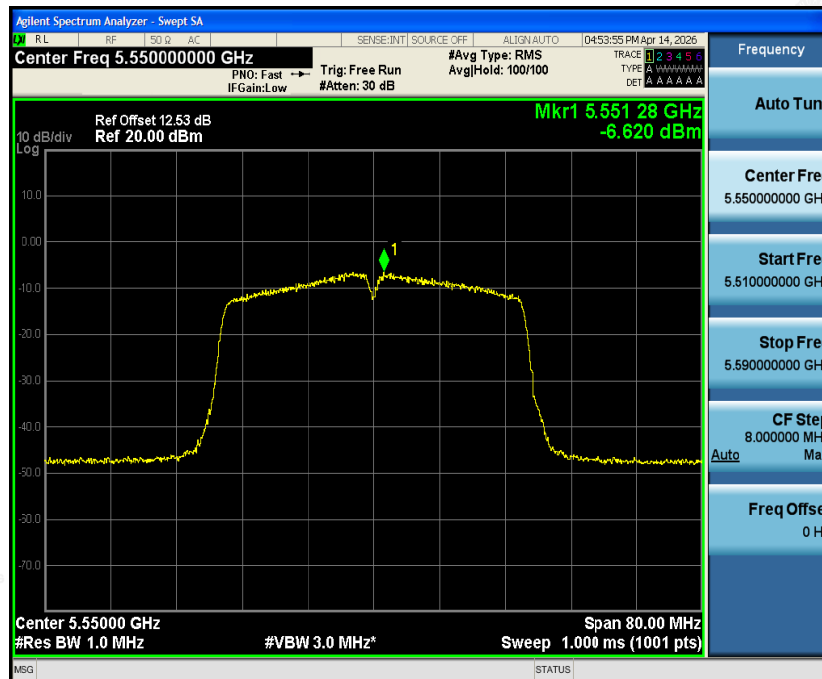
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5470~5725MHz

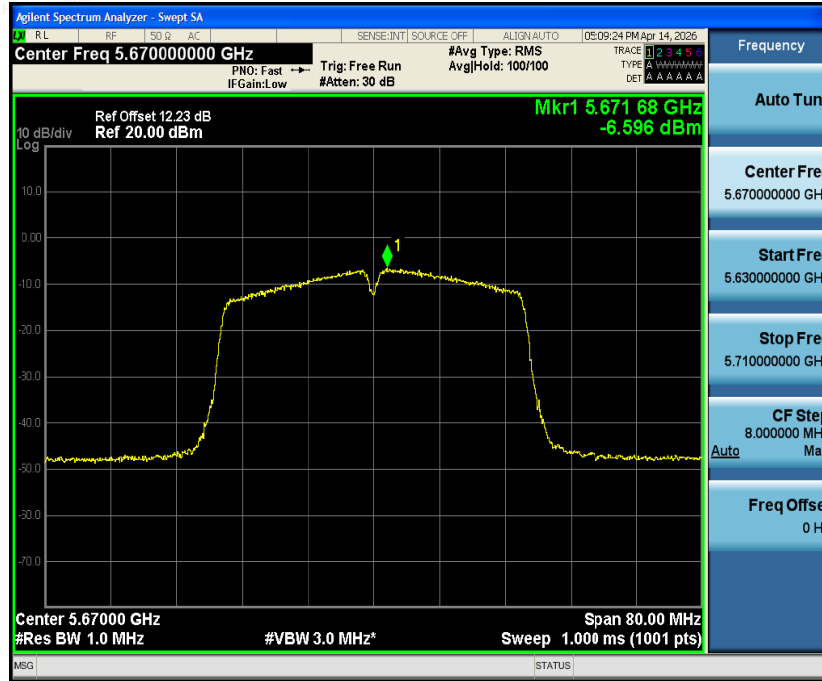
Low Channel



Mid Channel



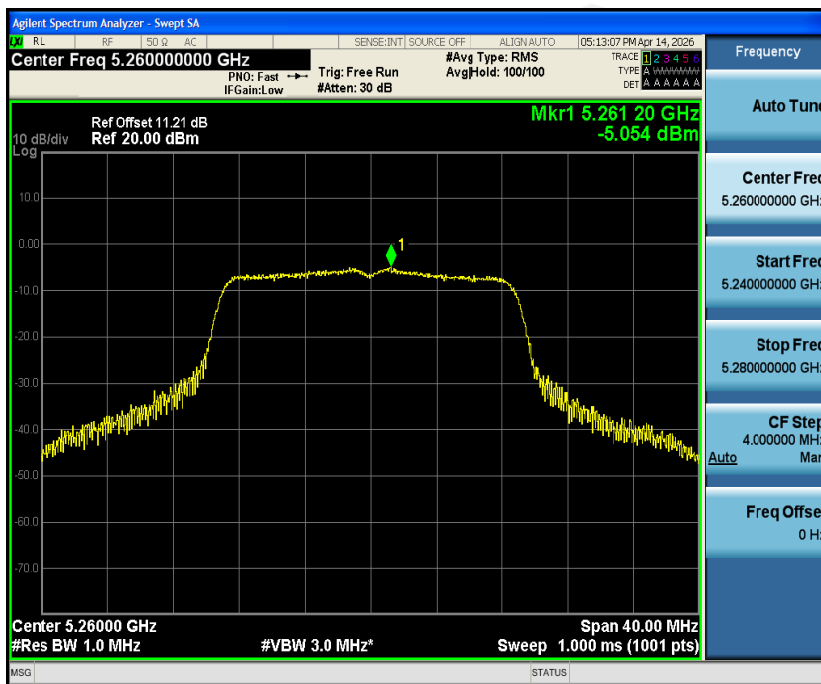
High Channel



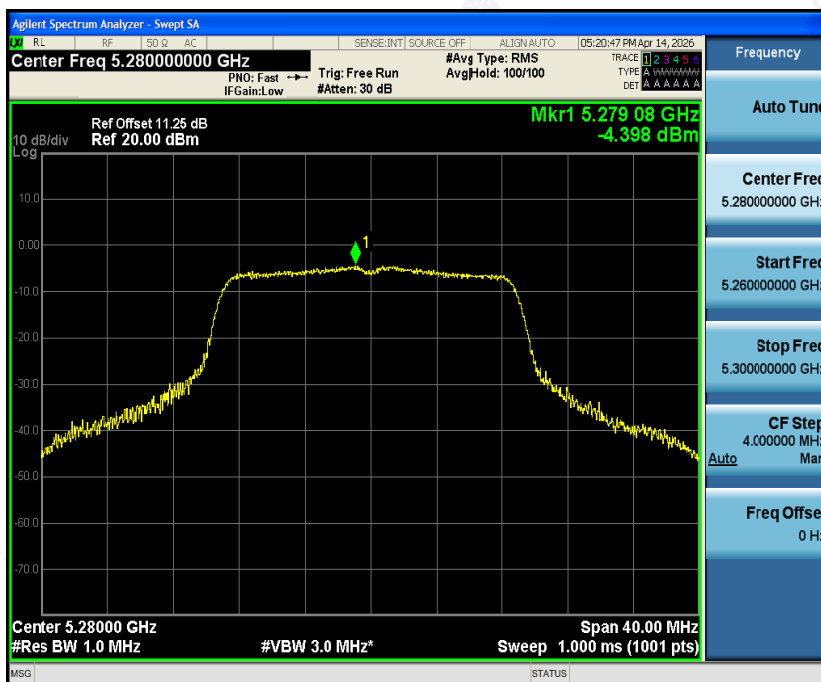
IEEE802.11ac HT20 mode

5250~5350MHz

Low Channel



Mid Channel

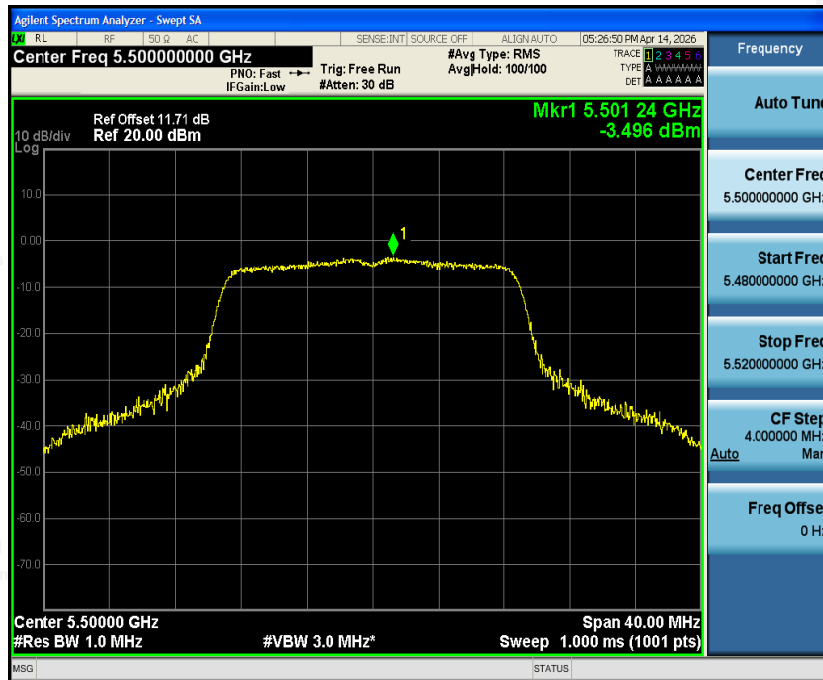


High Channel

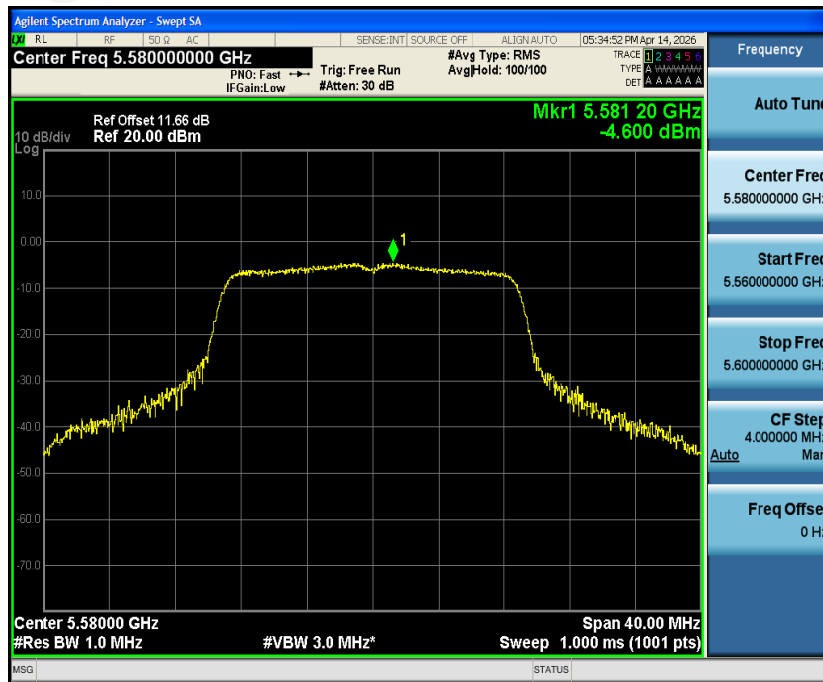


5470~5725MHz

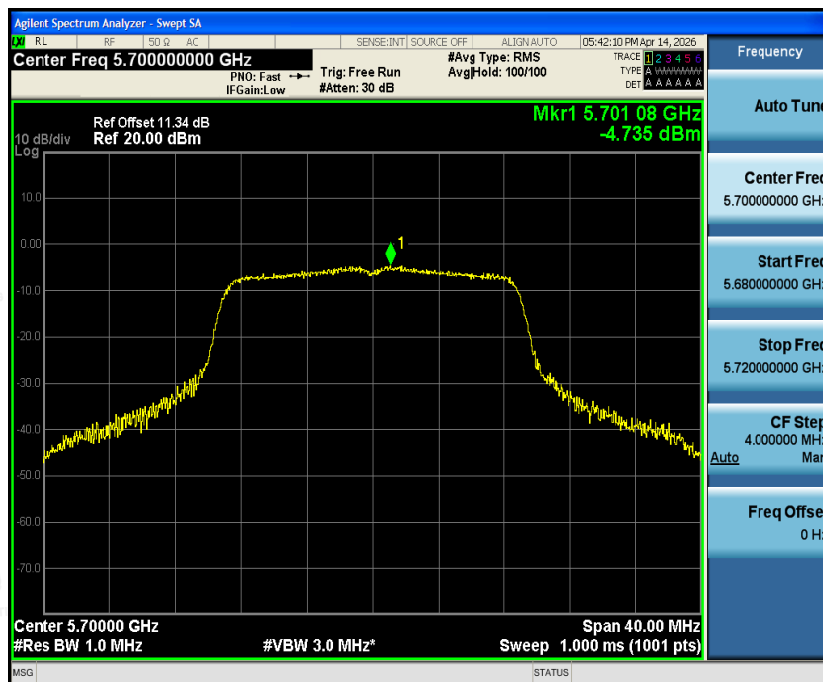
Low Channel



Mid Channel



High Channel



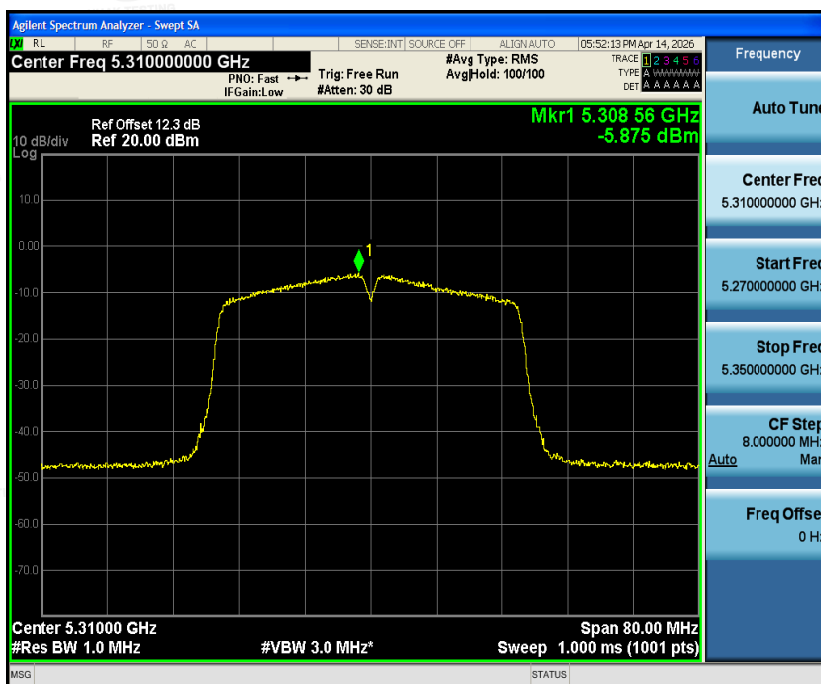
IEEE802.11ac HT40 mode

5250~5350MHz

Low Channel



High Channel



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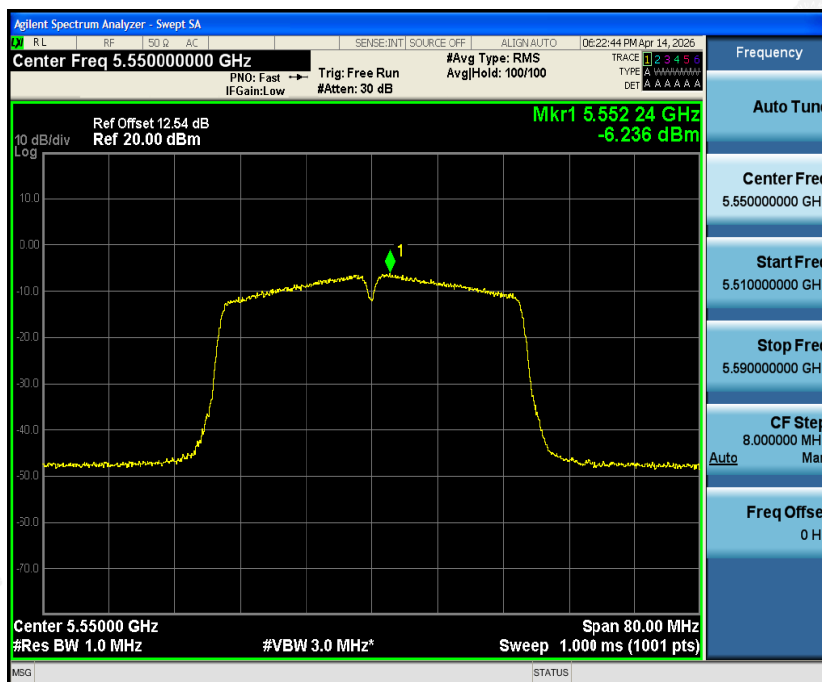
Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

5470~5725MHz

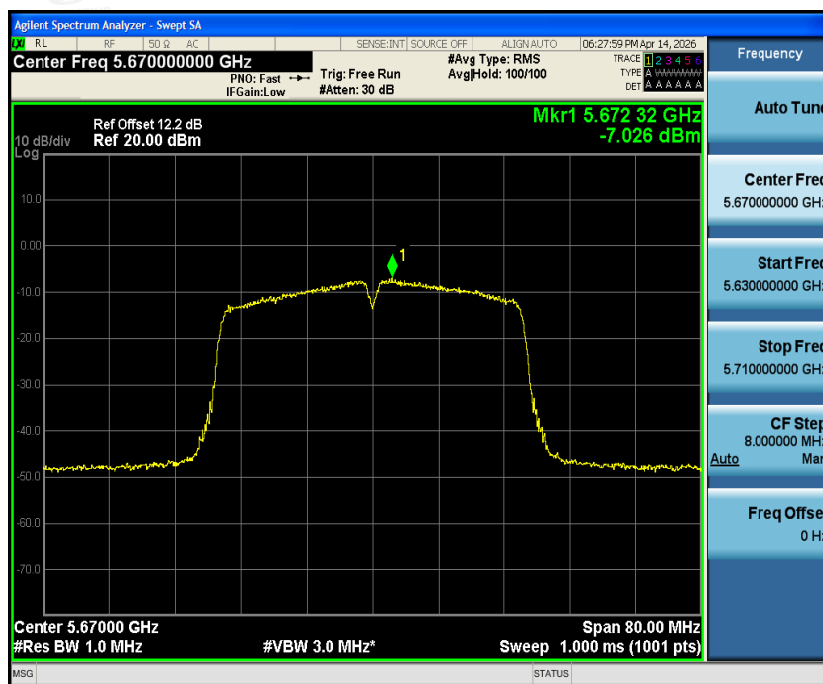
Low Channel



Mid Channel



High Channel



IEEE802.11ac HT80 mode

5250~5350MHz

Low Channel



5470~5725MHz

Low Channel



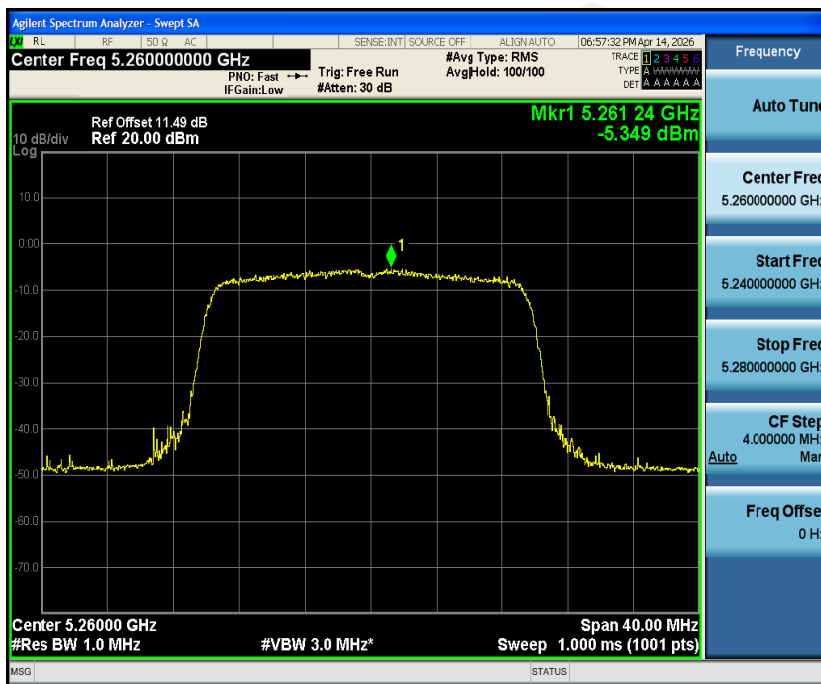
High Channel



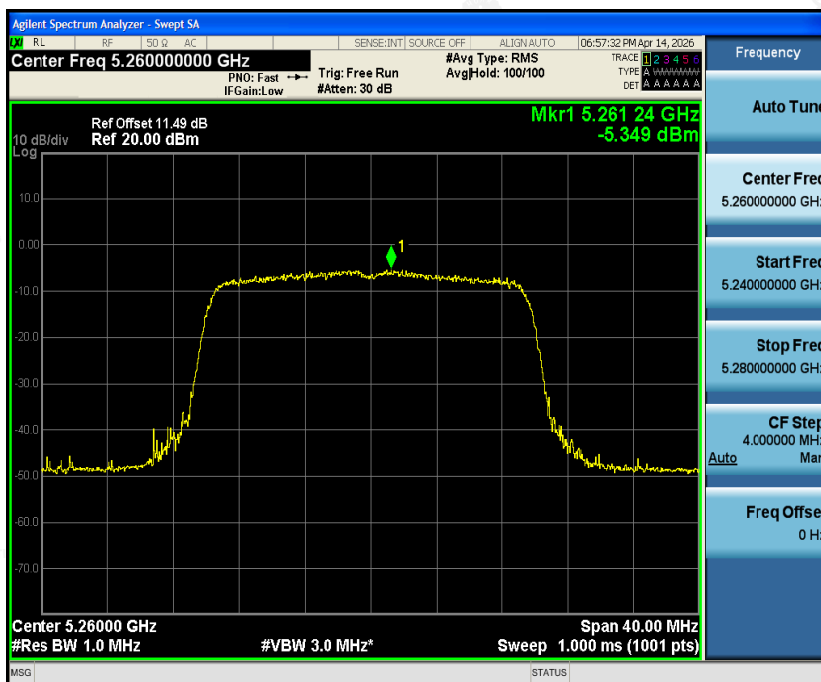
IEEE802.11ax HE20 mode

5250~5350MHz

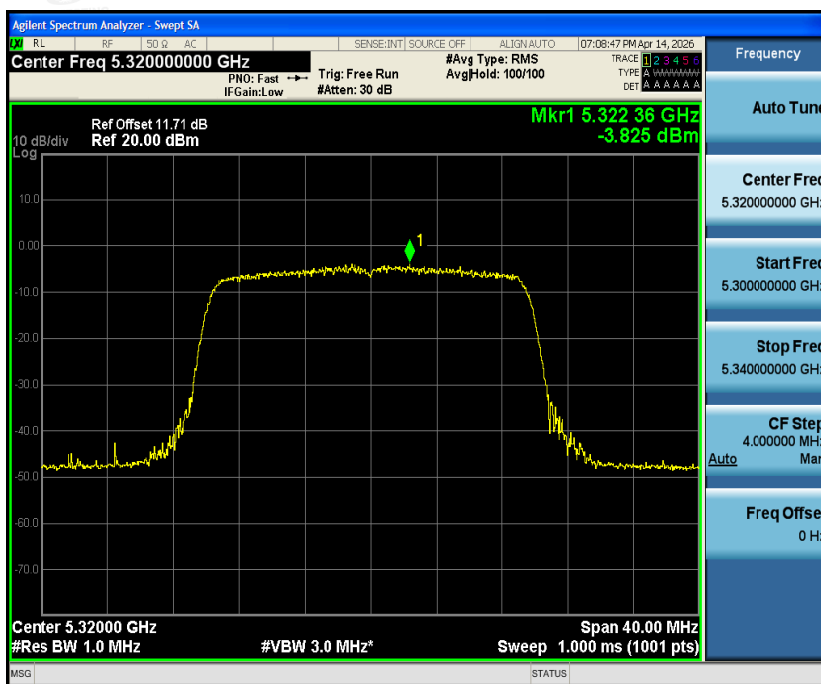
Low Channel



Mid Channel

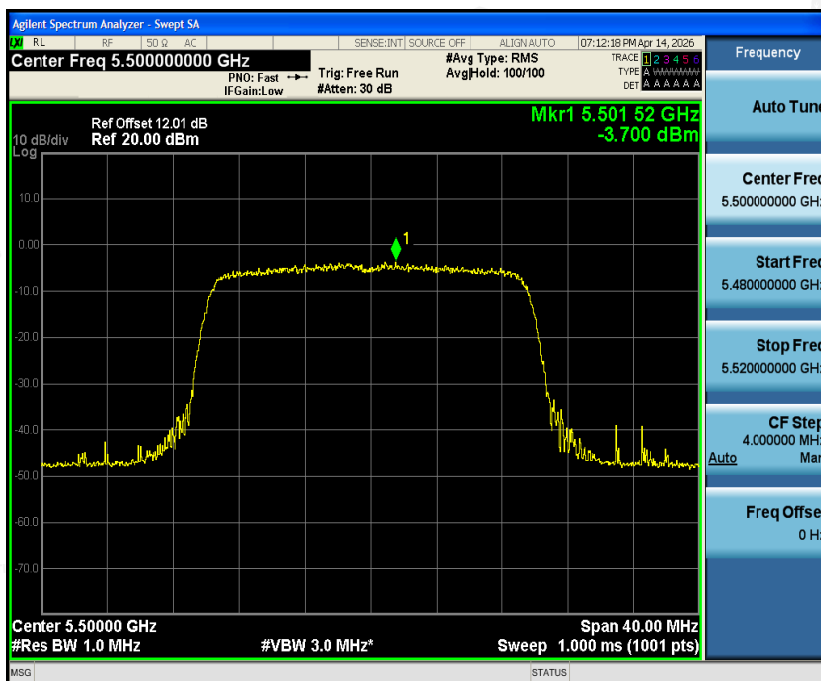


High Channel

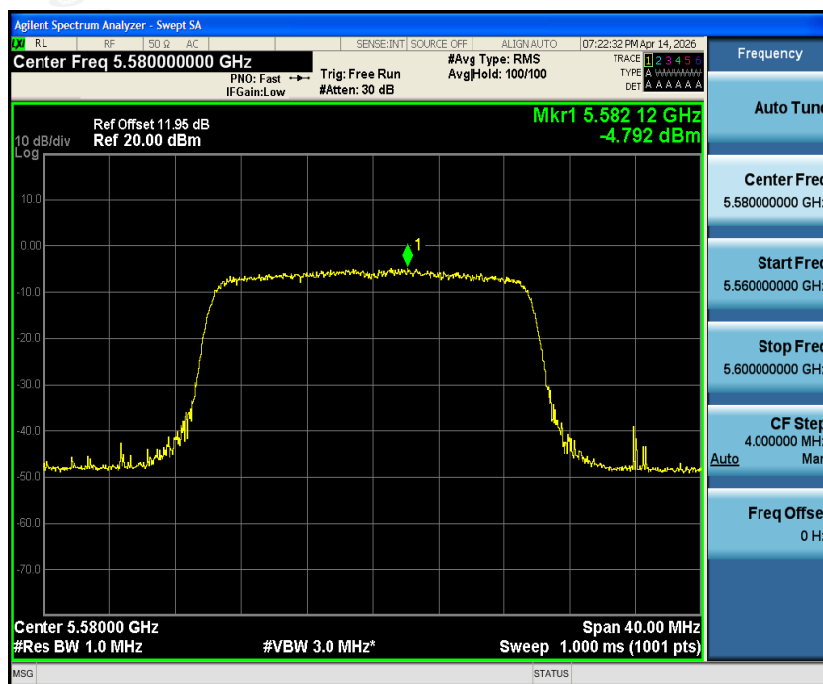


5470~5725MHz

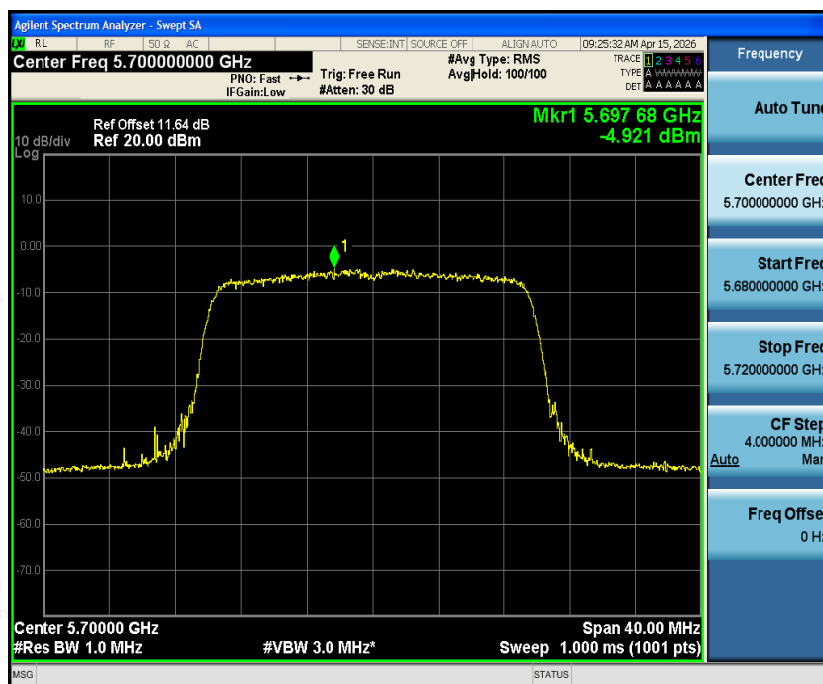
Low Channel



Mid Channel



High Channel



IEEE802.11ax HE40 mode

5250~5350MHz

Low Channel



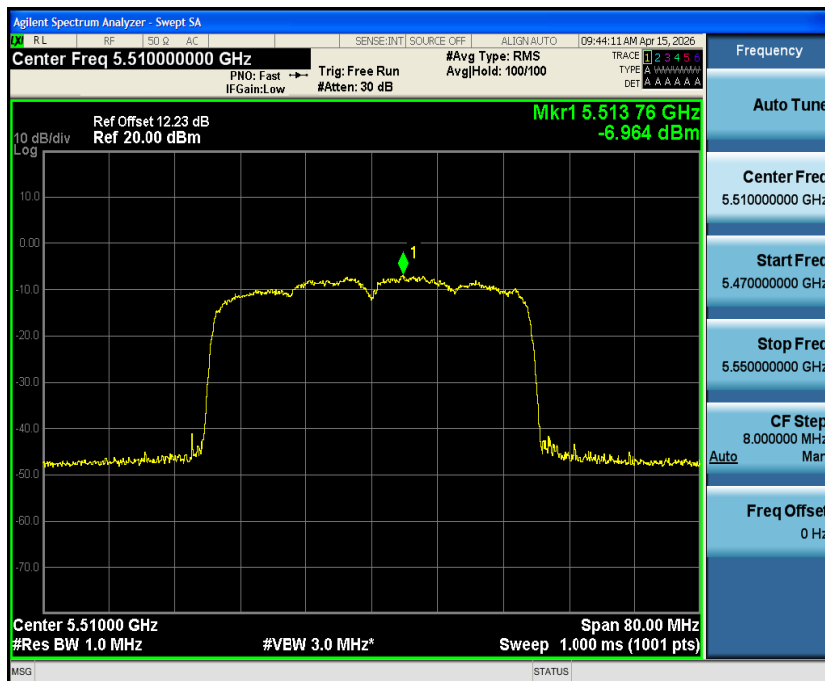
High Channel



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5470~5725MHz

Low Channel



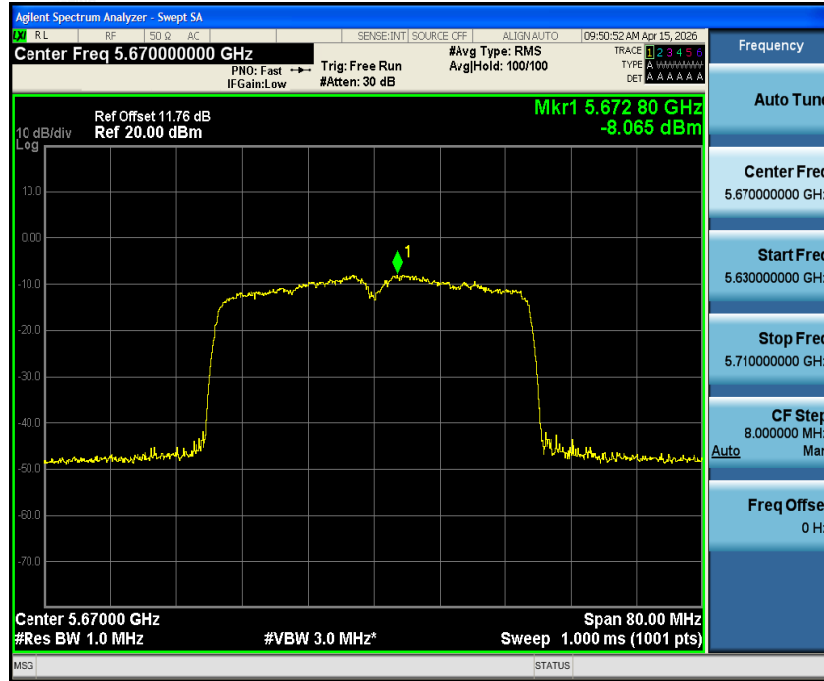
Mid Channel



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High Channel



IEEE802.11ax HE80 mode

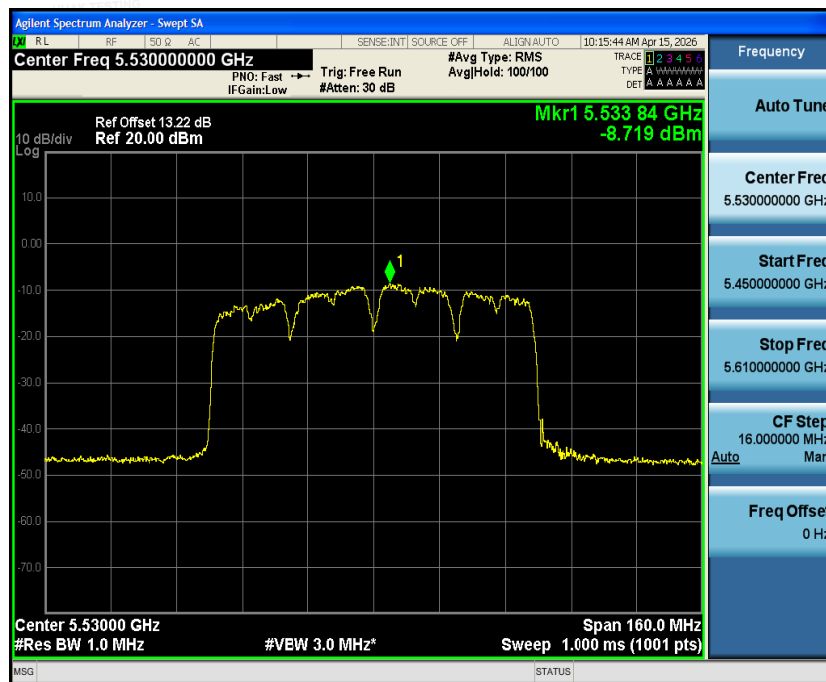
5250~5350MHz

Low Channel



5470~5725MHz

Low Channel



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High Channel

