



SISO (ANT A)

UNII-1

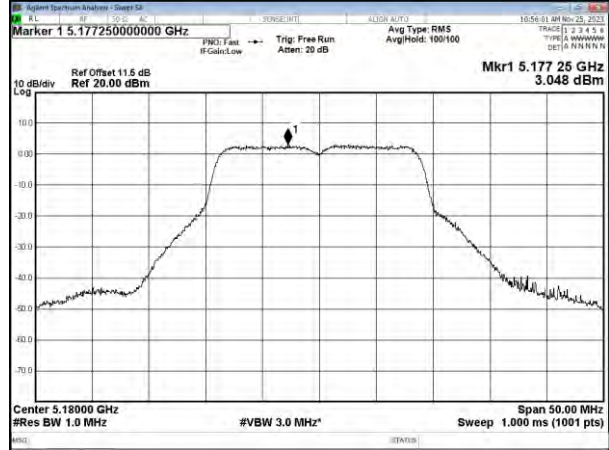
Modulation Standard: 802.11a

CH36

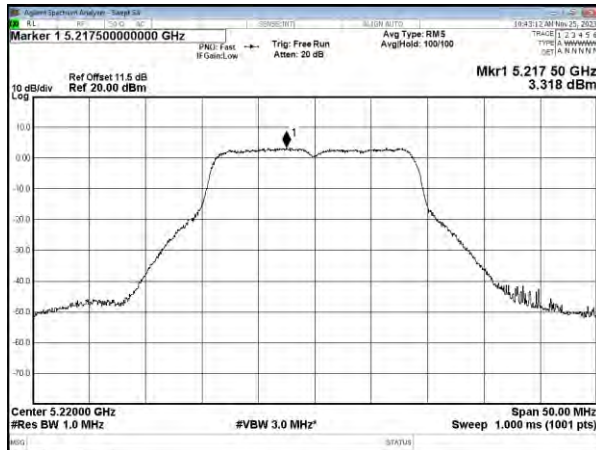


Modulation Standard: 802.11ac VHT20

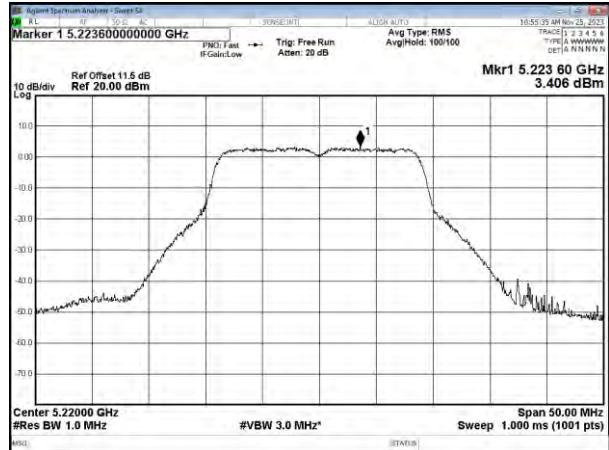
CH36



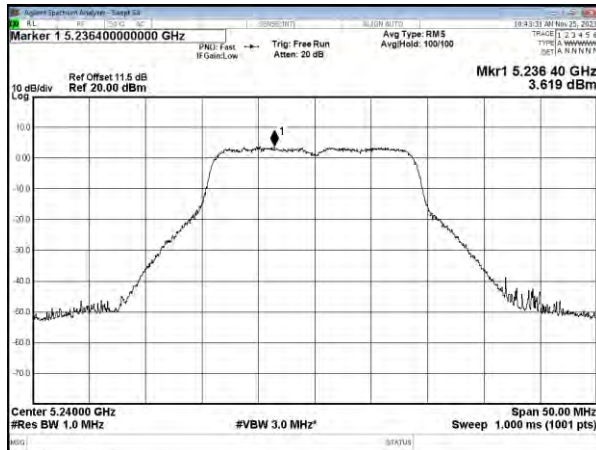
CH44



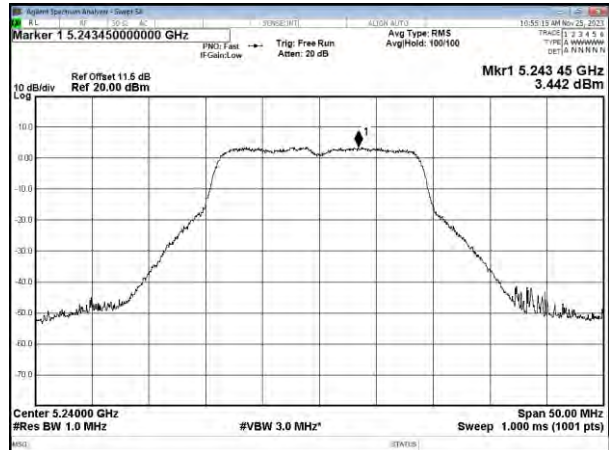
CH44



CH48



CH48

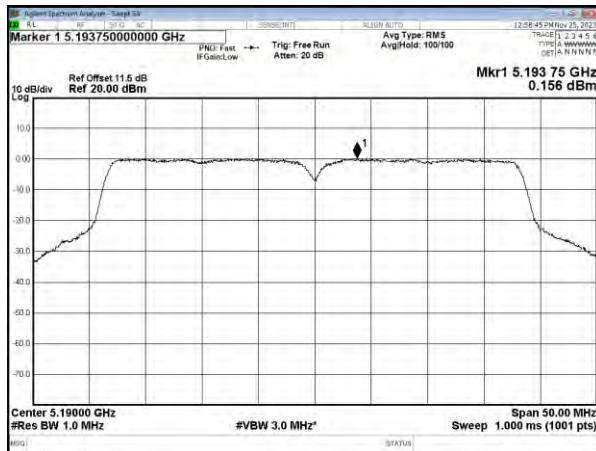




UNII-1

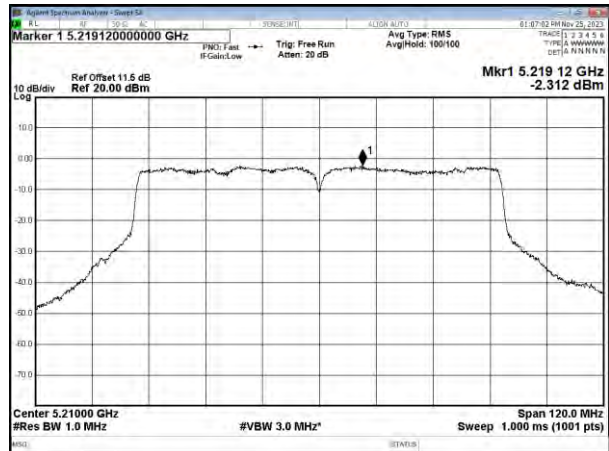
Modulation Standard: 802.11ac VHT40

CH38



Modulation Standard: 802.11ac VHT80

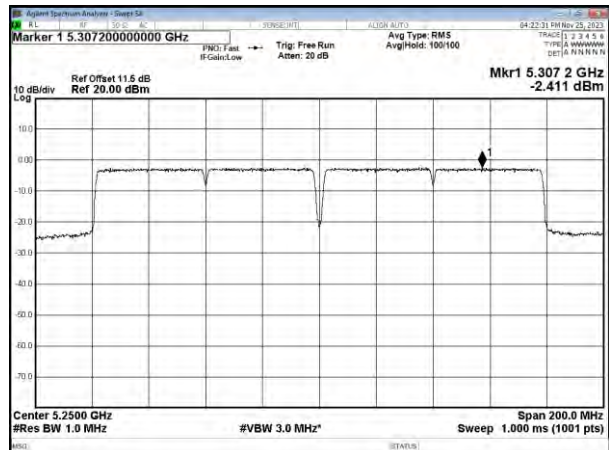
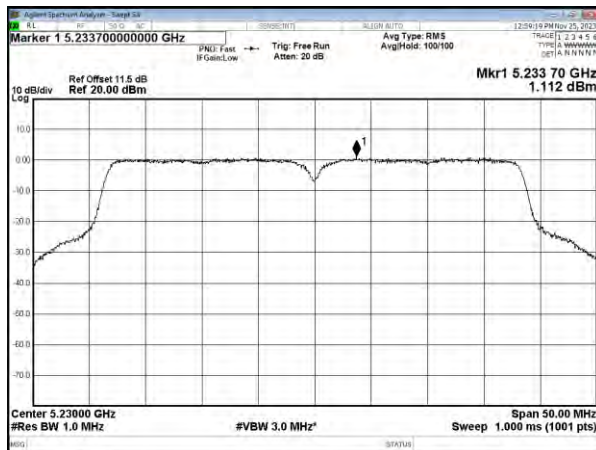
CH42



CH46

Modulation Standard: 802.11ac VHT160

CH50

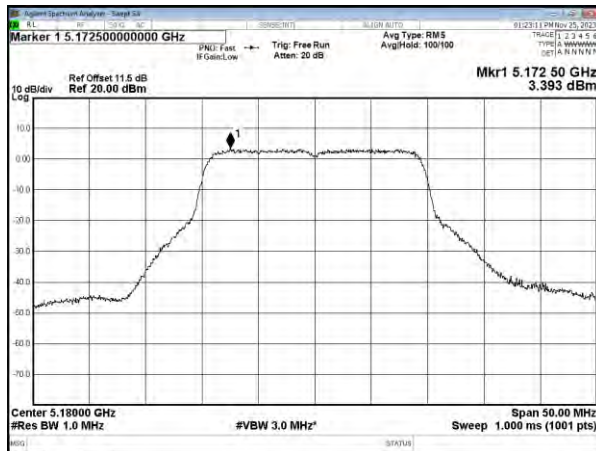




UNII-1

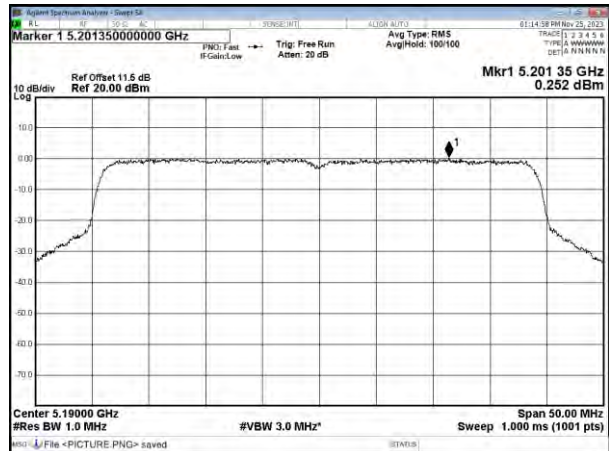
Modulation Standard: 802.11 ax HE20

CH36

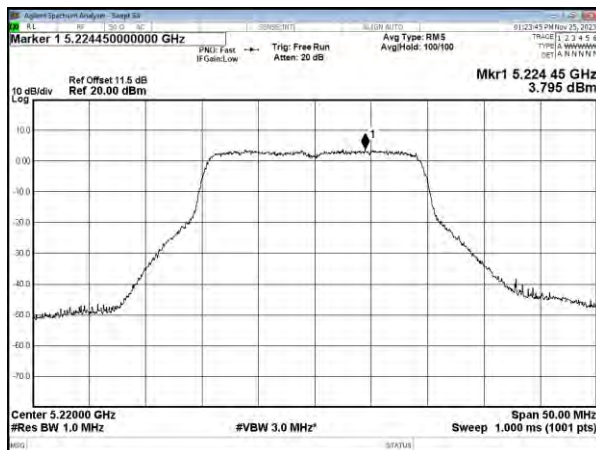


Modulation Standard: 802.11 ax HE40

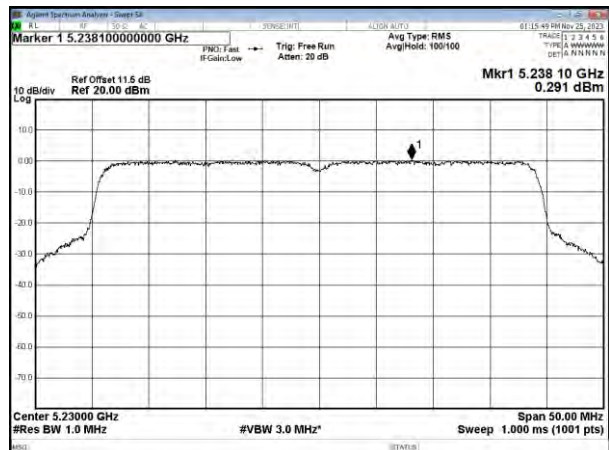
CH38



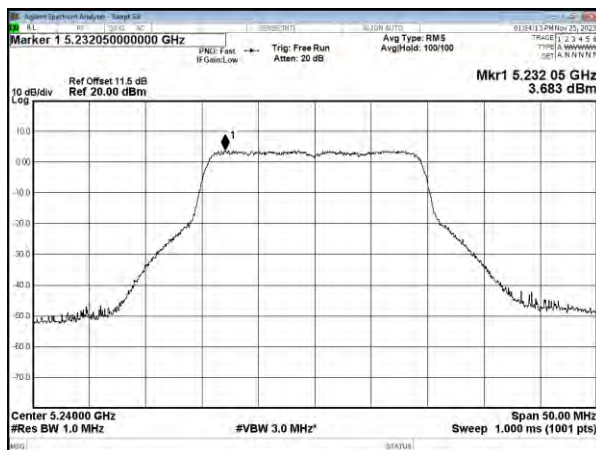
CH44



CH46

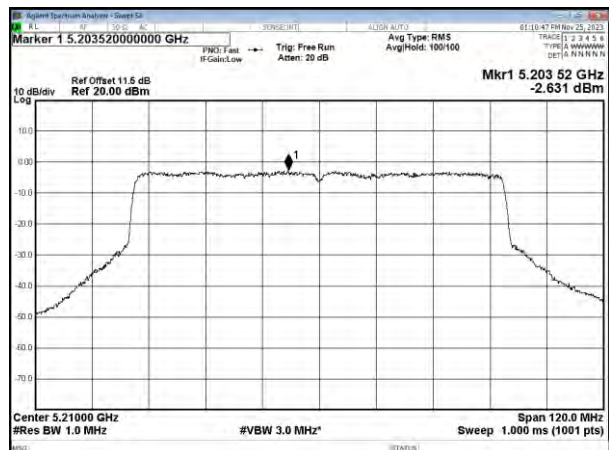


CH48



Modulation Standard: 802.11 ax HE80 (30.6Mbps)

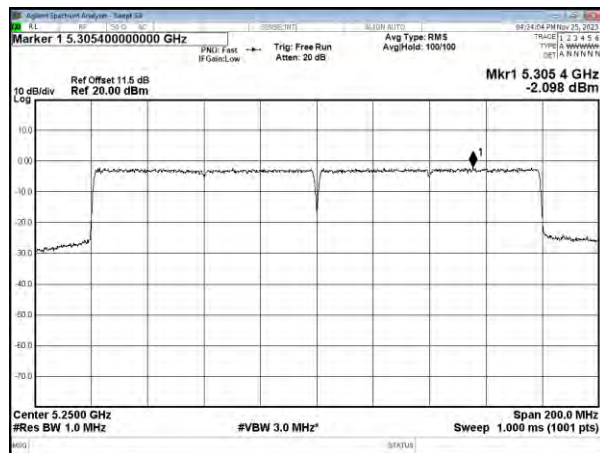
CH42





Modulation Standard: 802.11 ax HE160

CH50

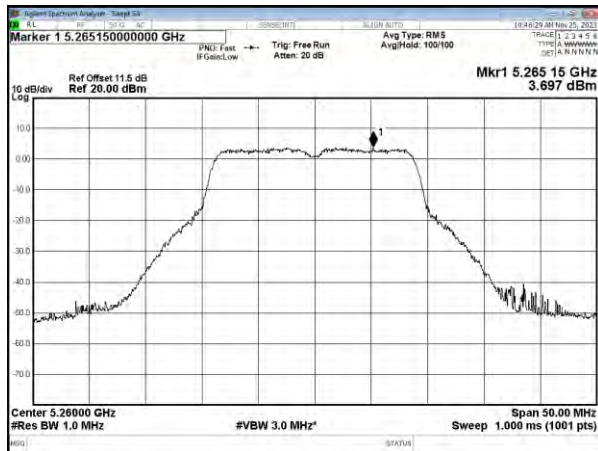




UNII-2A

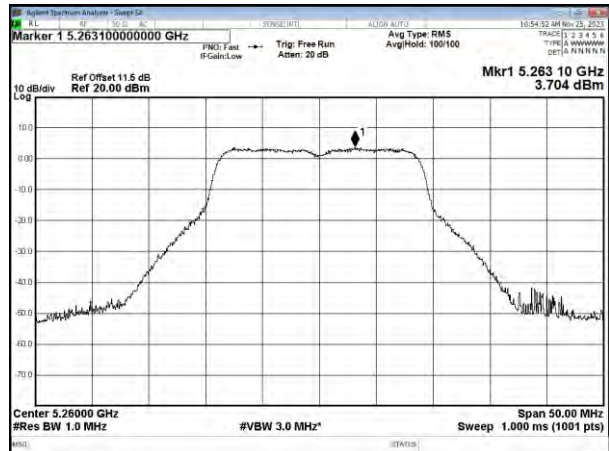
Modulation Standard: 802.11a

CH52

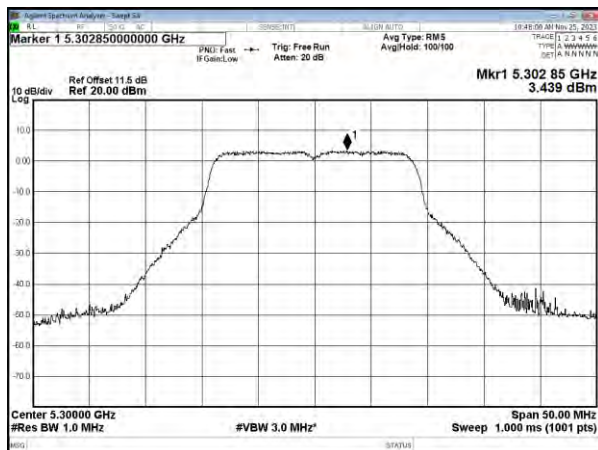


Modulation Standard: 802.11ac VHT20

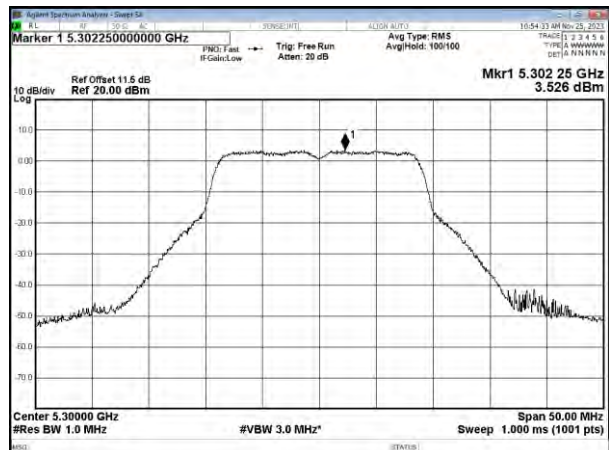
CH52



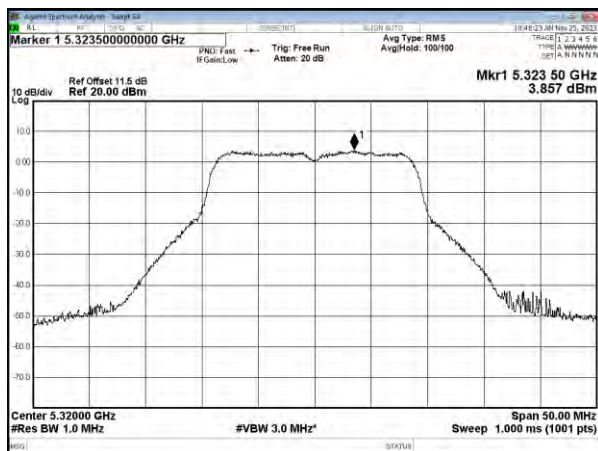
CH60



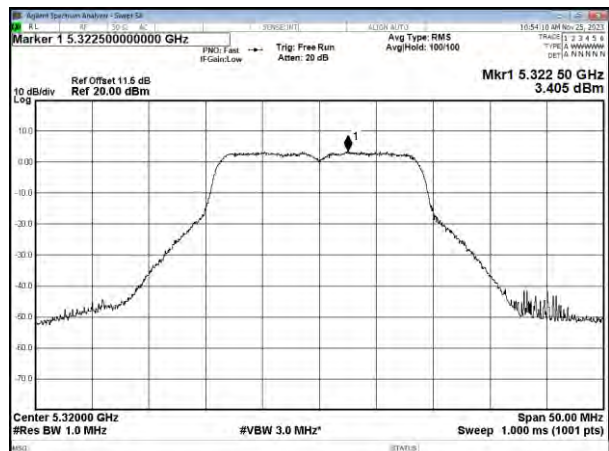
CH60



CH64



CH64

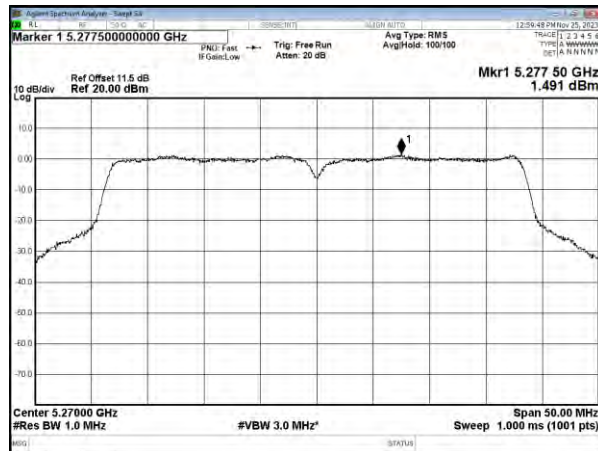




UNII-2A

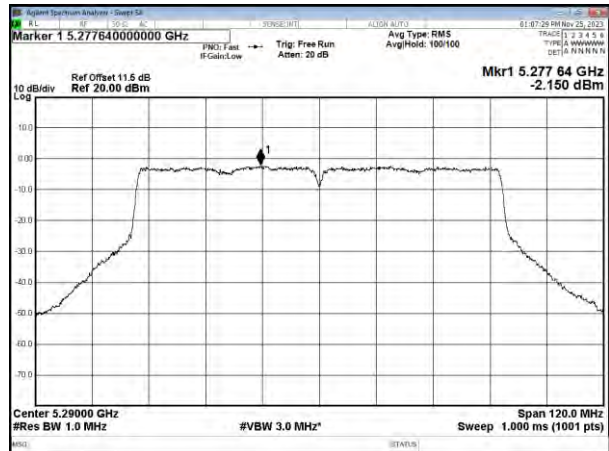
Modulation Standard: 802.11ac VHT40

CH54

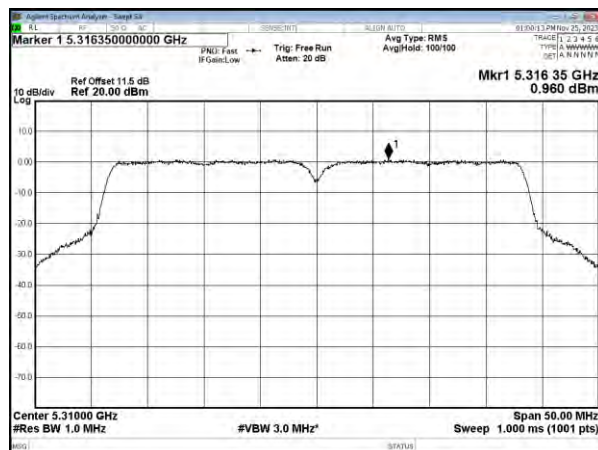


Modulation Standard: 802.11ac VHT80

CH58



CH62

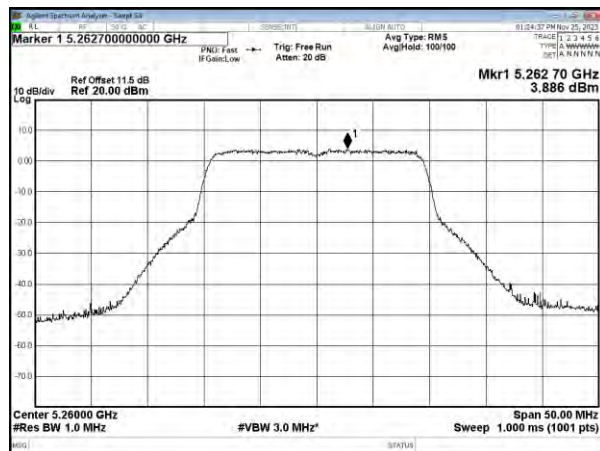




UNII-2A

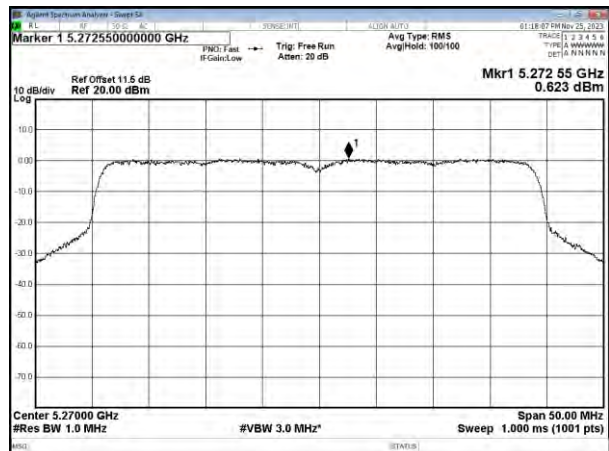
Modulation Standard: 802.11 ax HE20

CH52

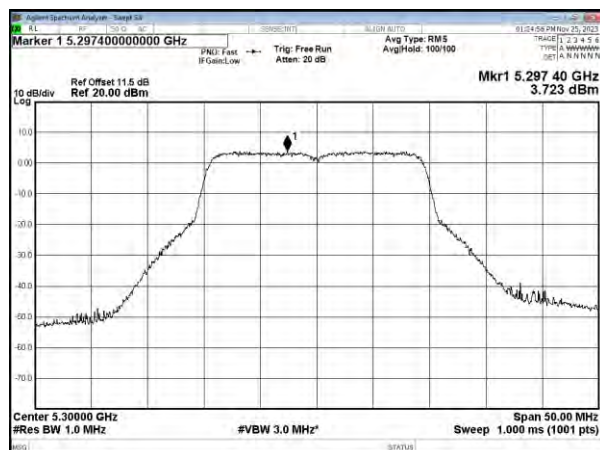


Modulation Standard: 802.11 ax HE40

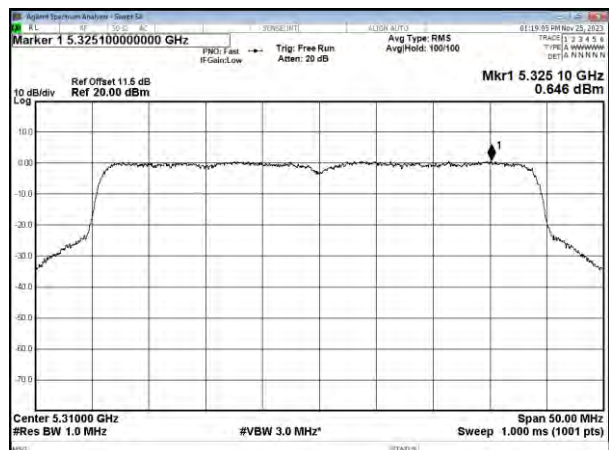
CH54



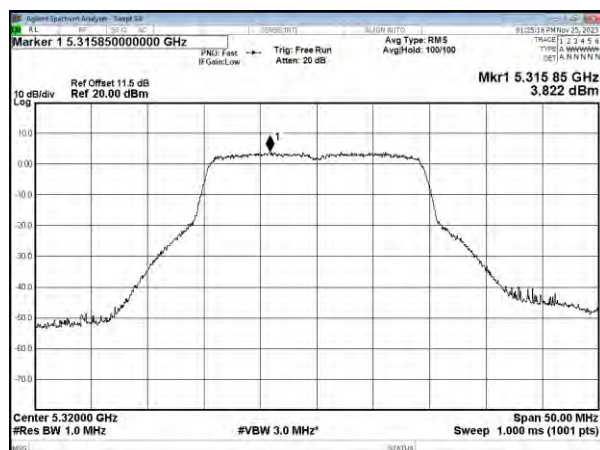
CH60



CH62

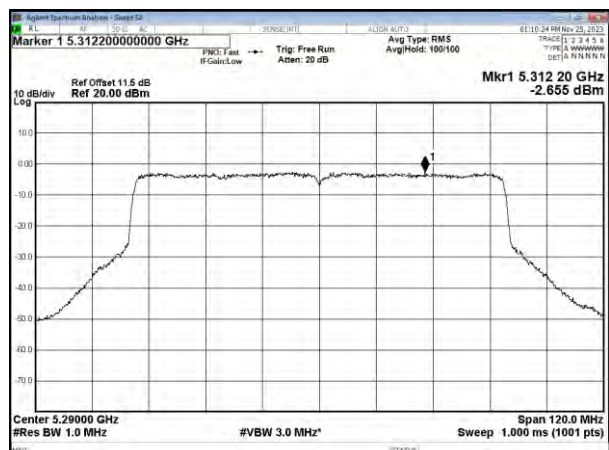


CH64



Modulation Standard: 802.11 ax HE80

CH58

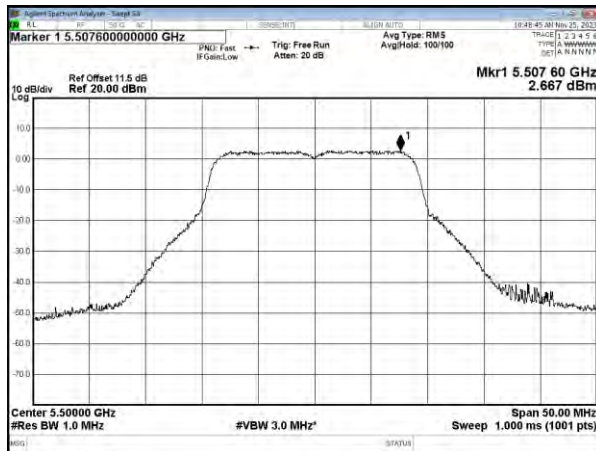




UNII-2C

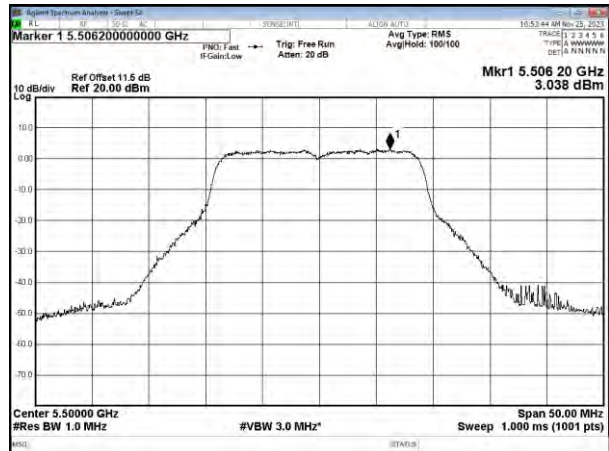
Modulation Standard: 802.11a

CH100

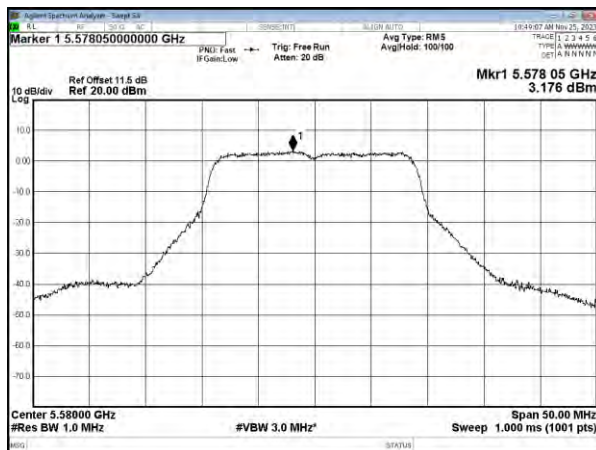


Modulation Standard: 802.11ac VHT20

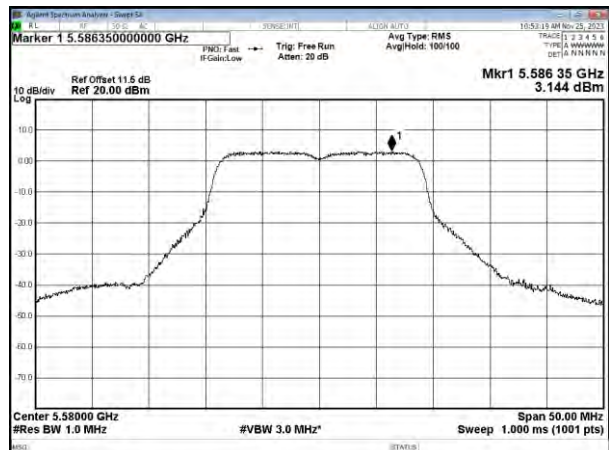
CH100



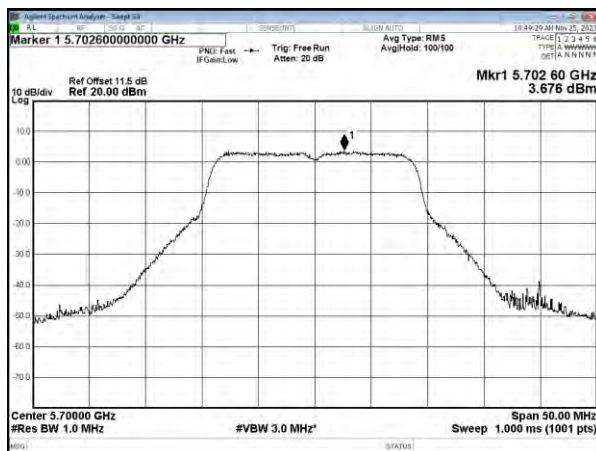
CH116



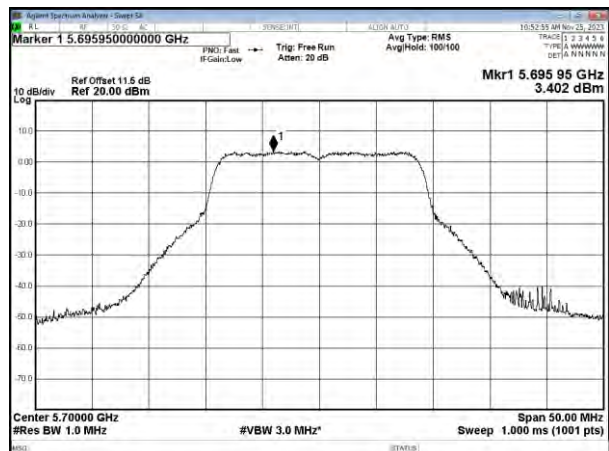
CH116



CH140



CH140

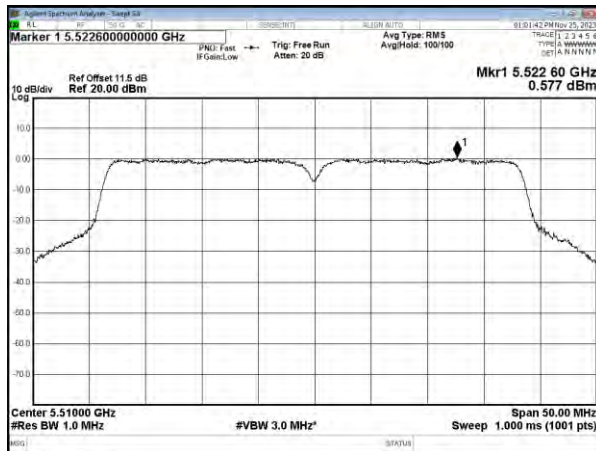




UNII-2C

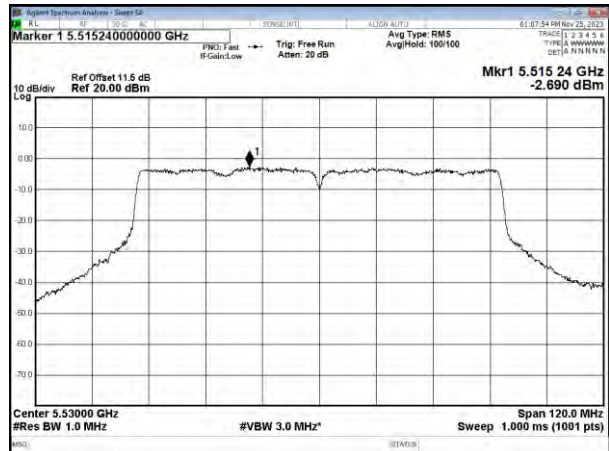
Modulation Standard: 802.11ac VHT40

CH102

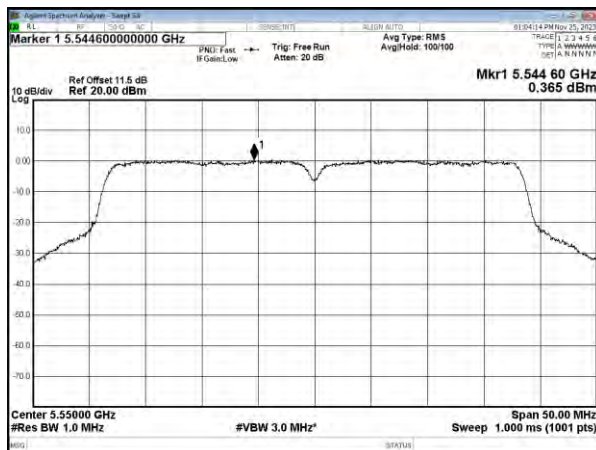


Modulation Standard: 802.11ac VHT80

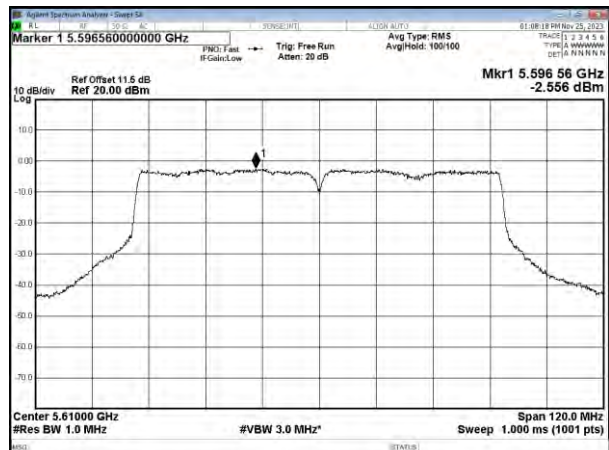
CH106



CH110

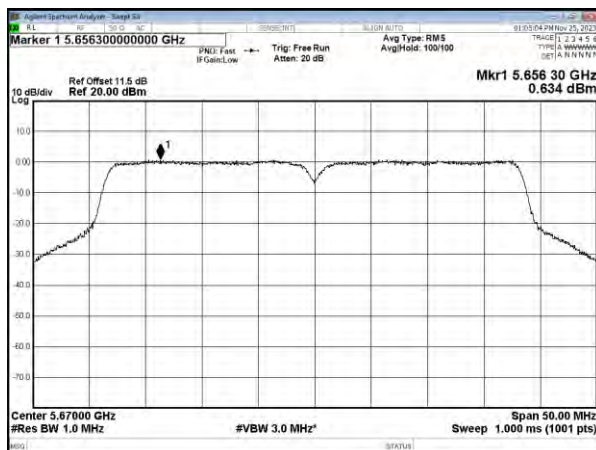


CH122

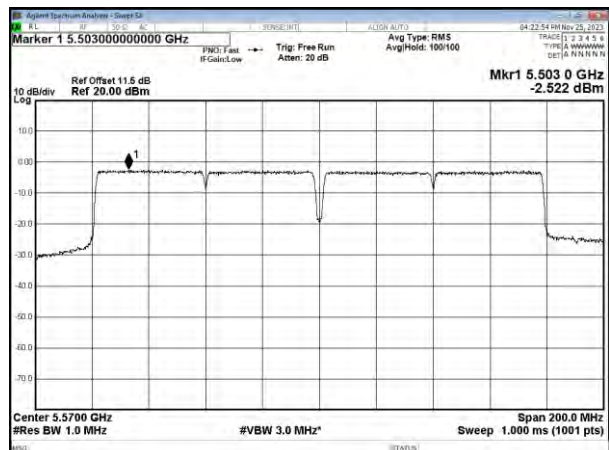


Modulation Standard: 802.11ac VHT160

CH134



CH114

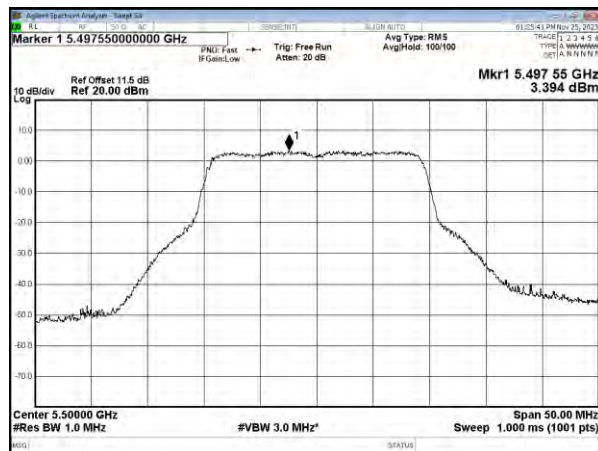




UNII-2C

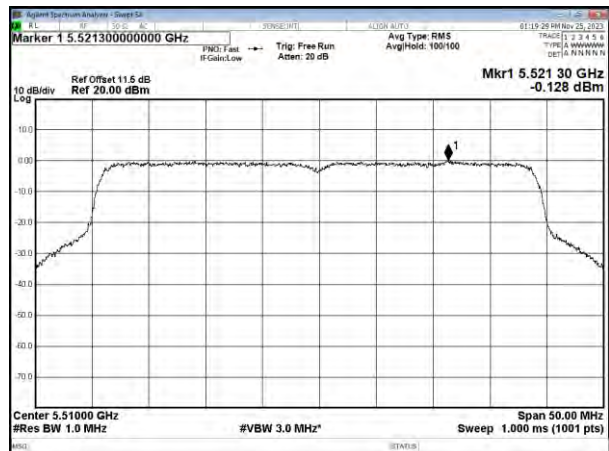
Modulation Standard: 802.11 ax HE20

CH100

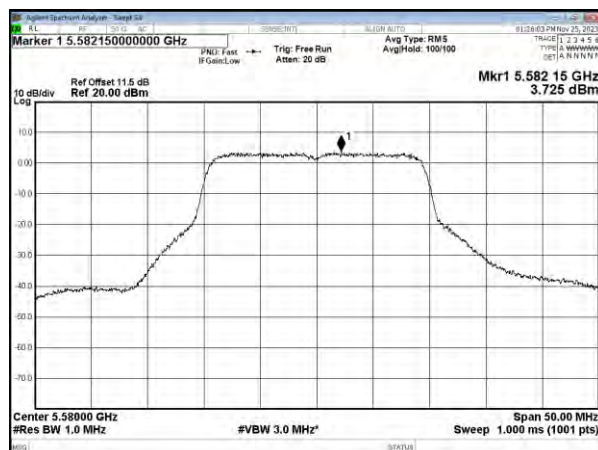


Modulation Standard: 802.11 ax HE40

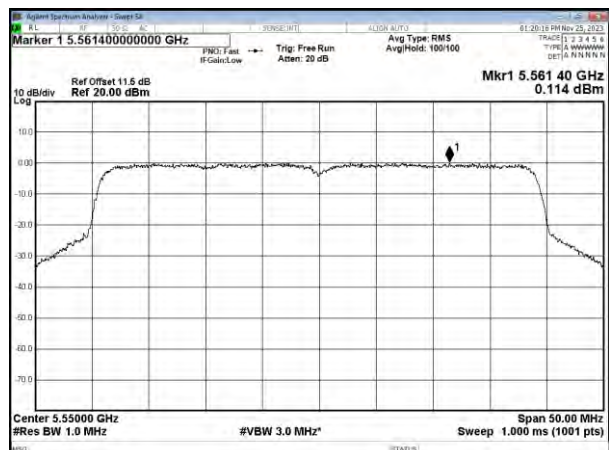
CH102



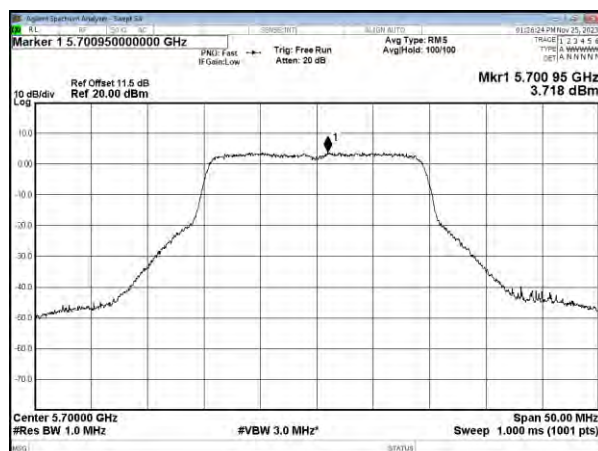
CH116



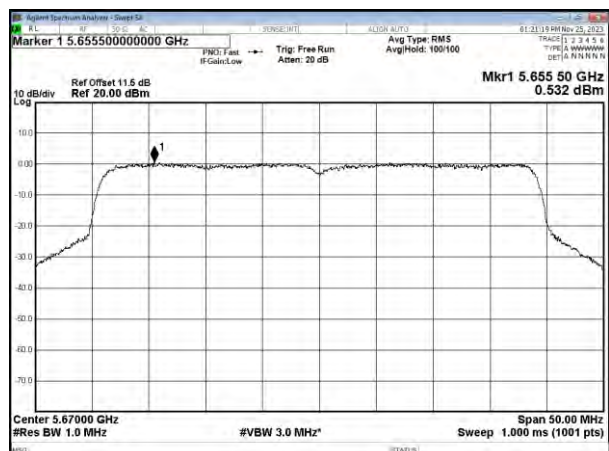
CH110



CH140



CH134



UNII-2C

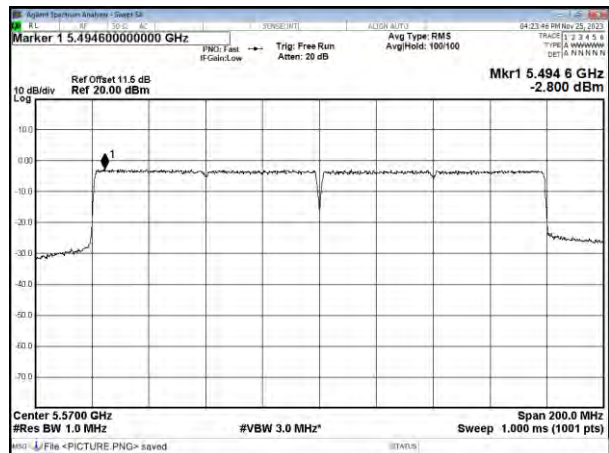
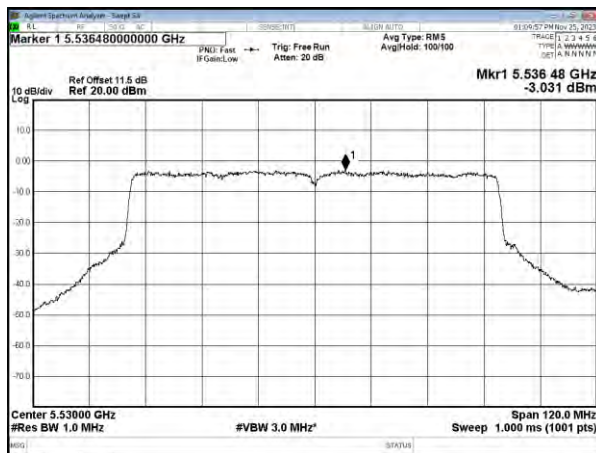


Modulation Standard: 802.11 ax HE80

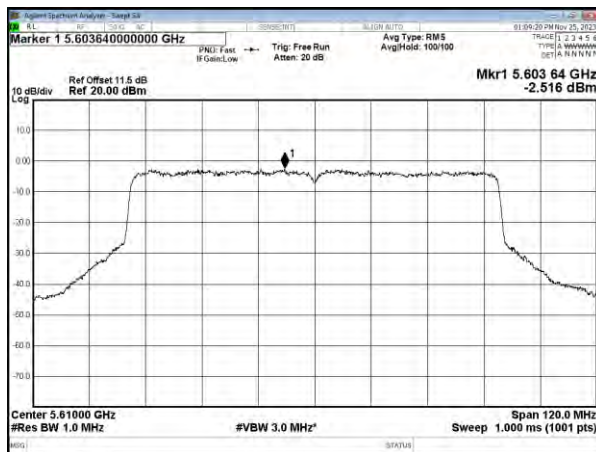
Modulation Standard: 802.11ax HE160

CH106

CH114



CH122





Band: Straddle Channel

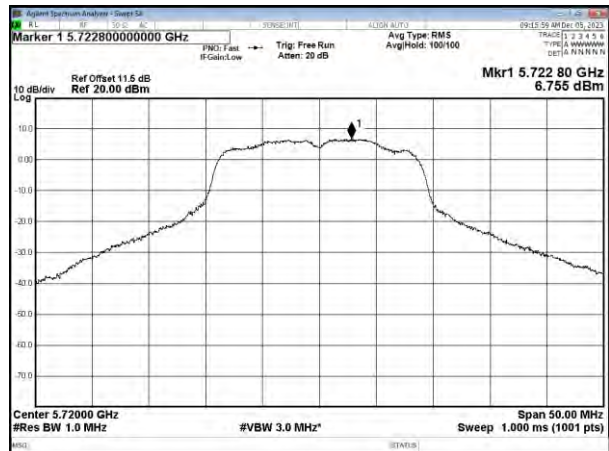
Modulation Standard: 802.11a

CH144



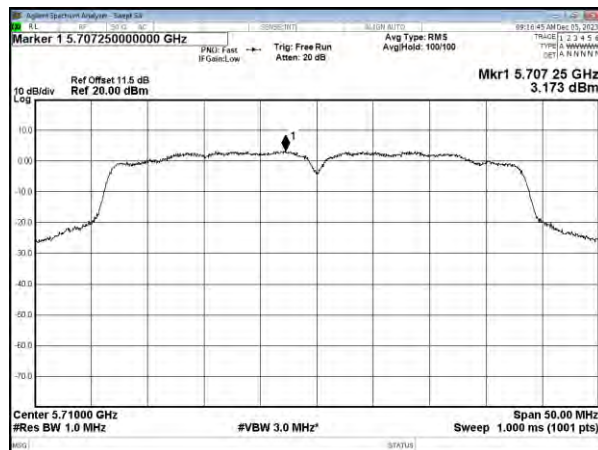
Modulation Standard: 802.11ac VHT20

CH144



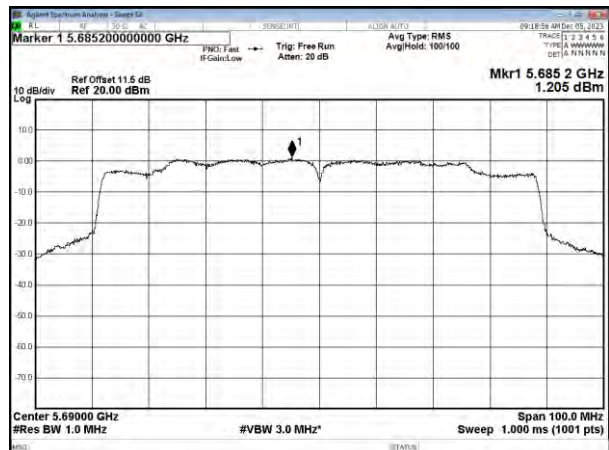
Modulation Standard: 802.11ac VHT40

CH142



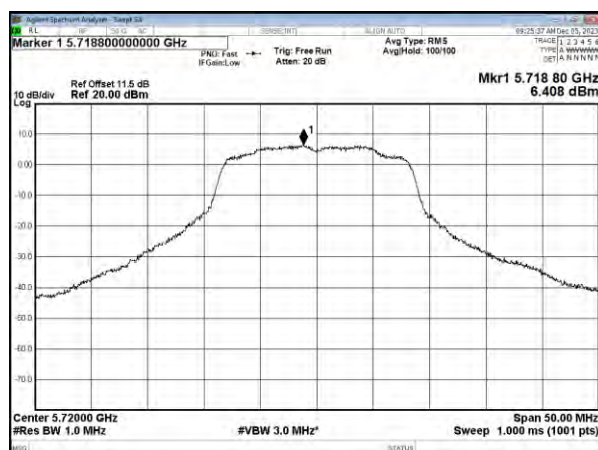
Modulation Standard: 802.11ac VHT80

CH138



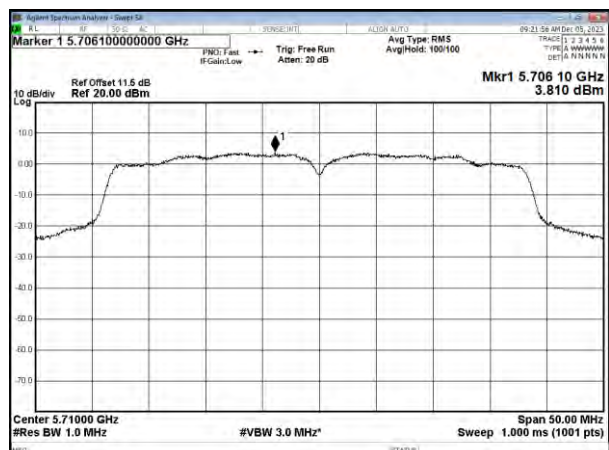
Modulation Standard: 802.11 ax HE20

CH144



Modulation Standard: 802.11 ax HE40

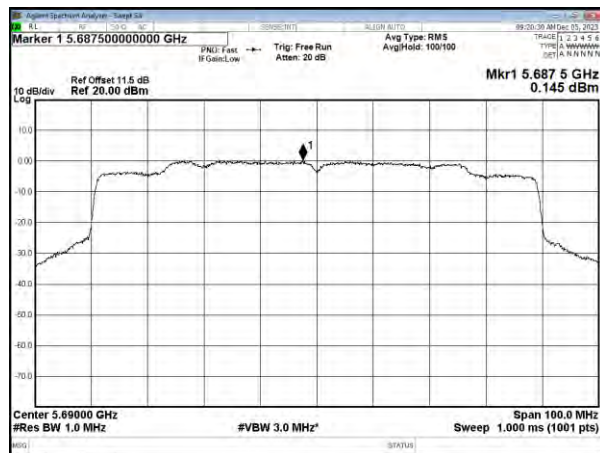
CH142





Modulation Standard: 802.11 ax HE80

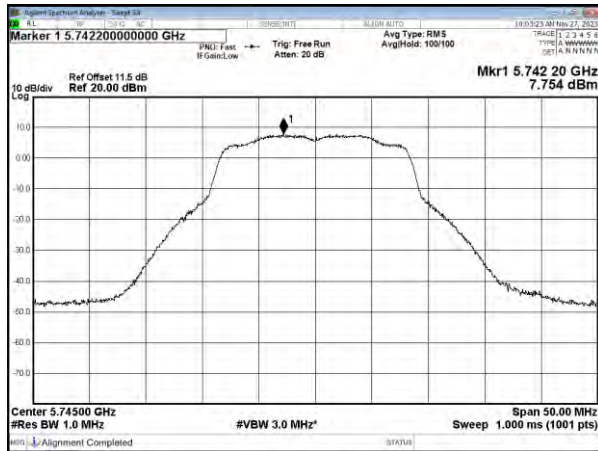
CH138



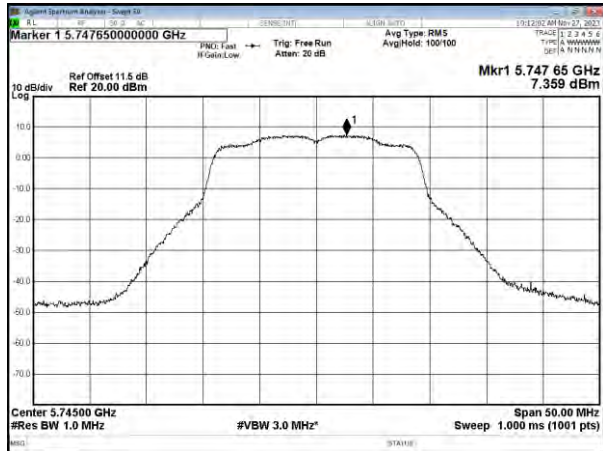


UNII-3

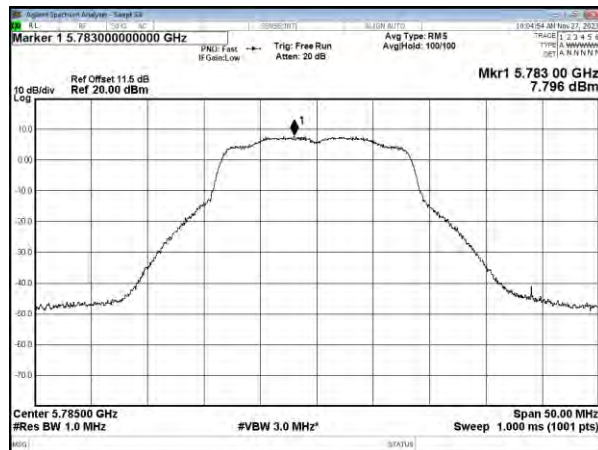
Modulation Type: 802.11a
CH149



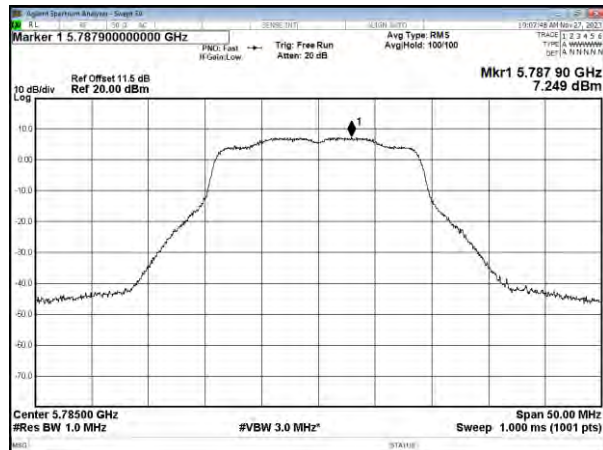
Modulation Type: 802.11ac, VHT20
CH149



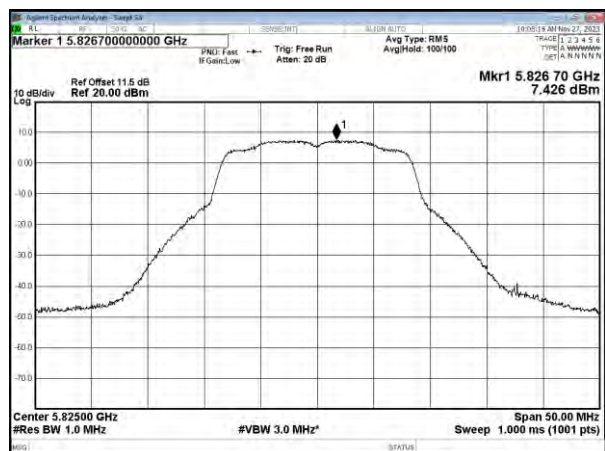
CH157



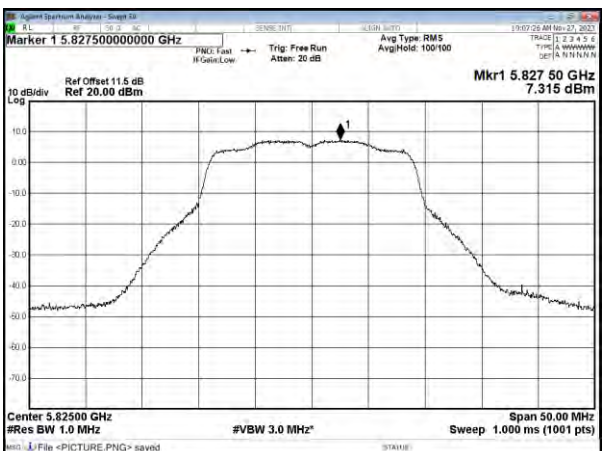
CH157



CH165

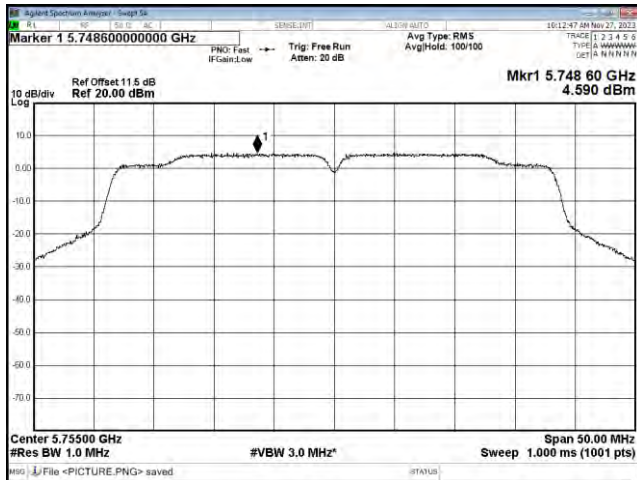
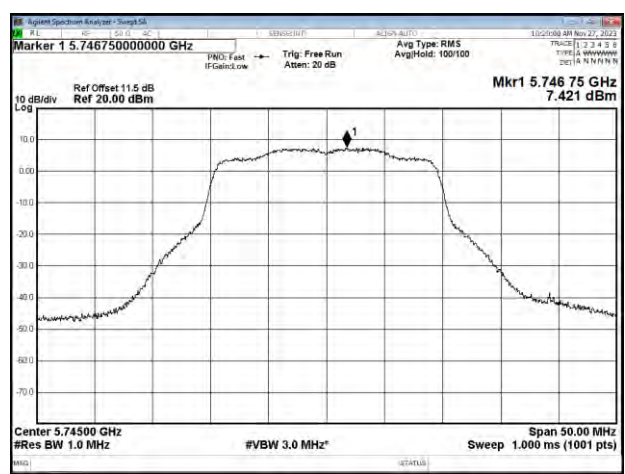


CH165

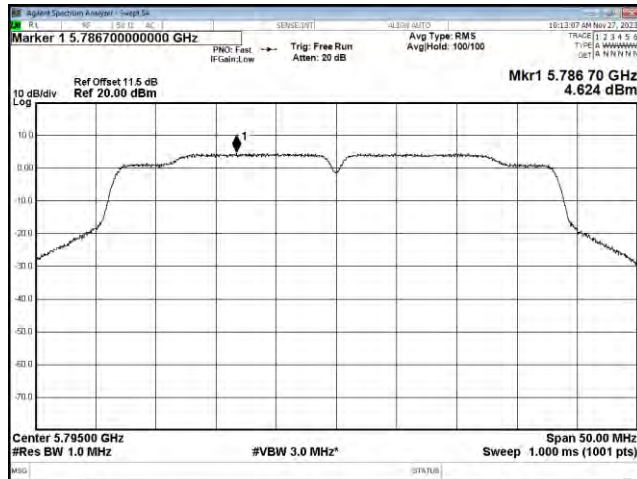




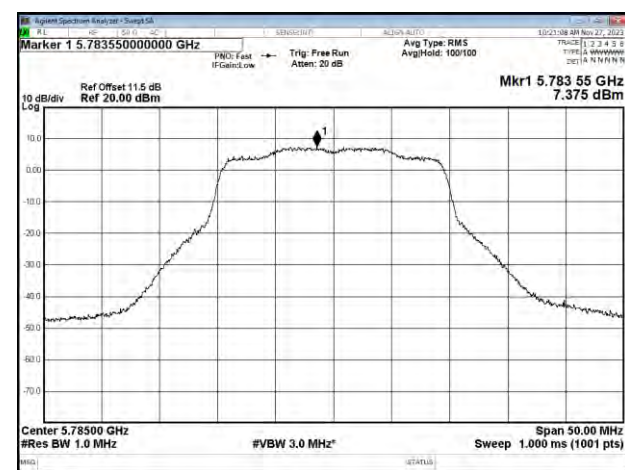
UNII-3

Modulation Type: 802.11ac, VHT40
CH151Modulation Type: 802.1111ax HE20
CH149

CH159

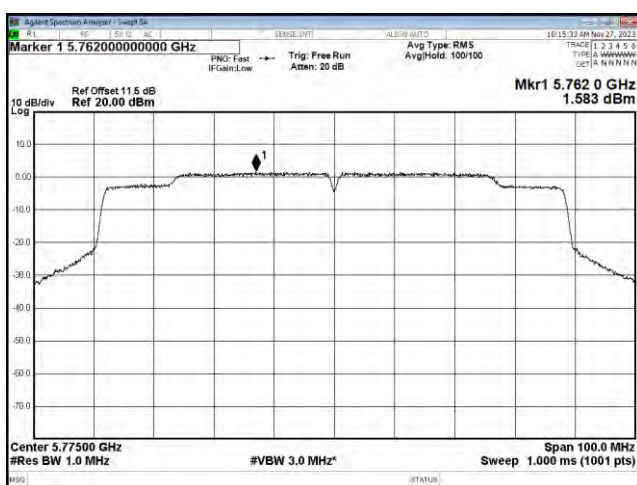


CH157

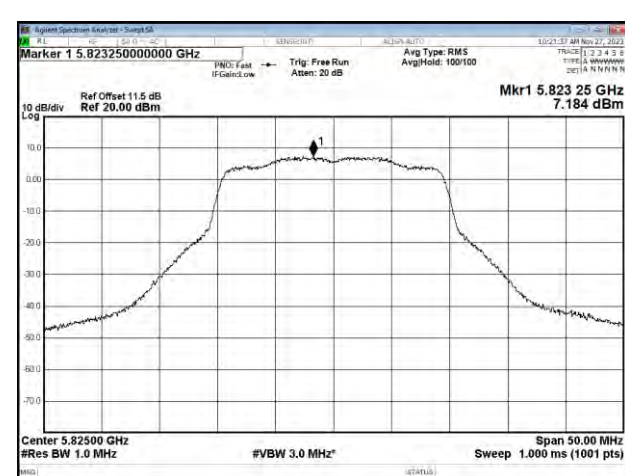


Modulation Type: 802.11ac, VHT80

CH155



CH165

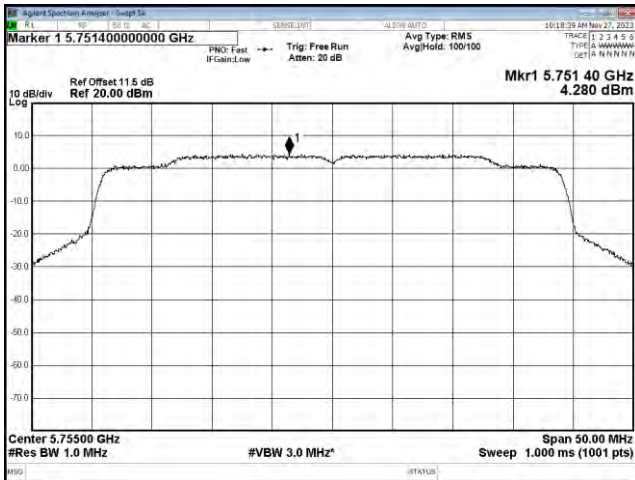




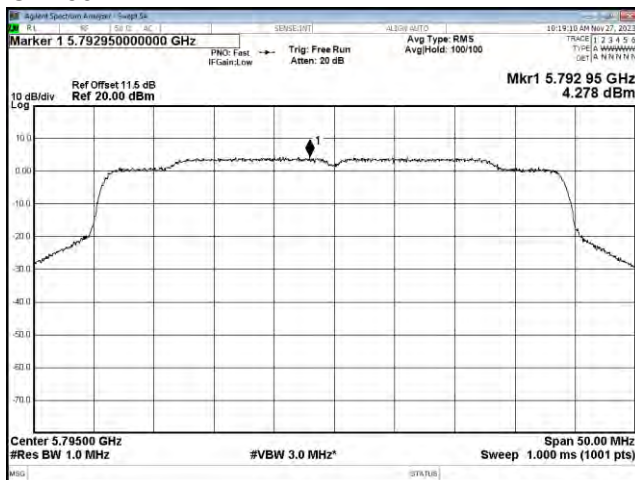
UNII-3

Modulation Type: 802.11 ax HE40

CH151

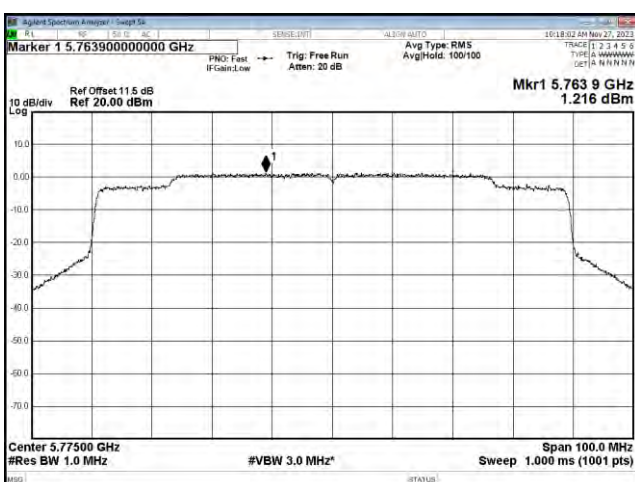


CH159



Modulation Type: 802.11ax HE80

CH155



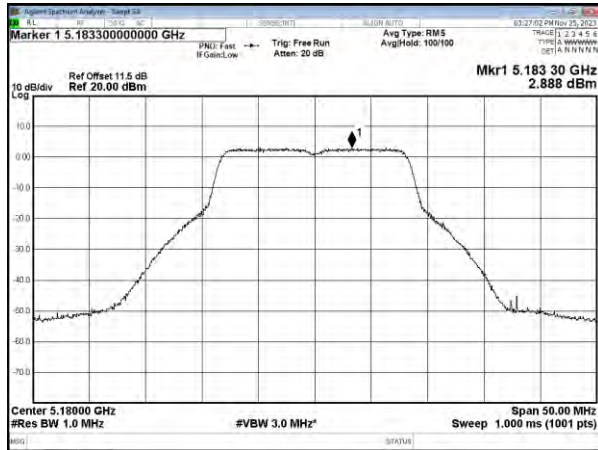


SISO (ANT B)

UNII-1

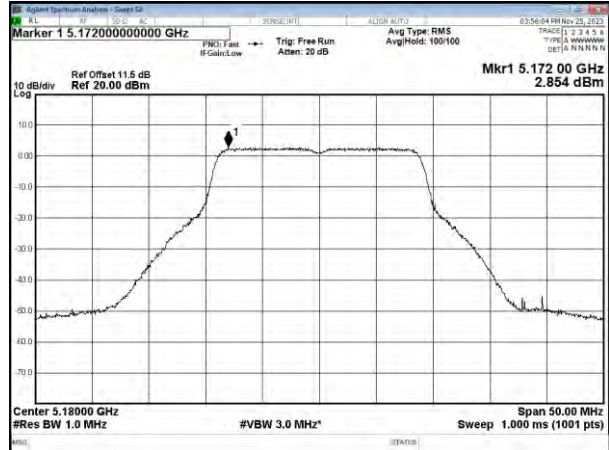
Modulation Standard: 802.11a

CH36

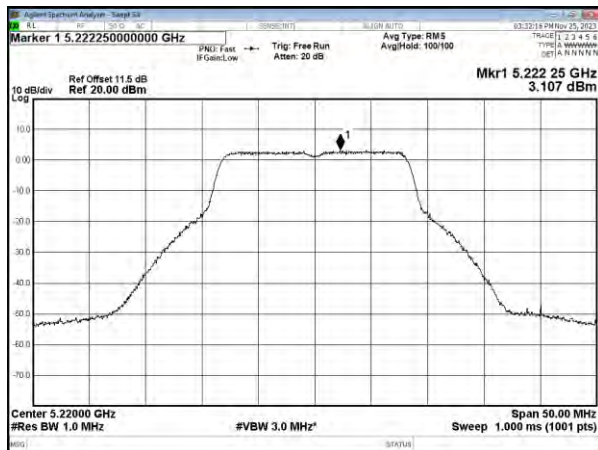


Modulation Standard: 802.11ac VHT20

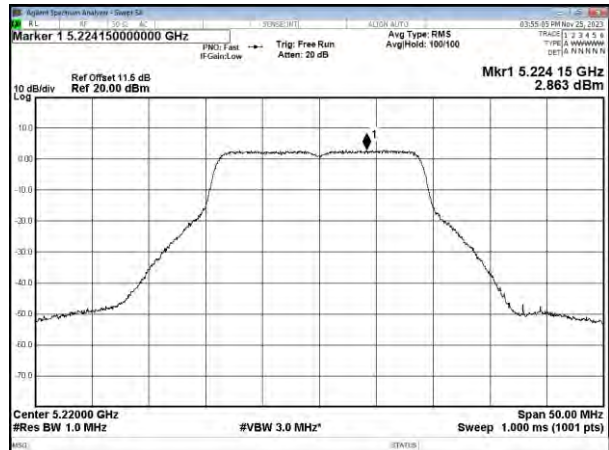
CH36



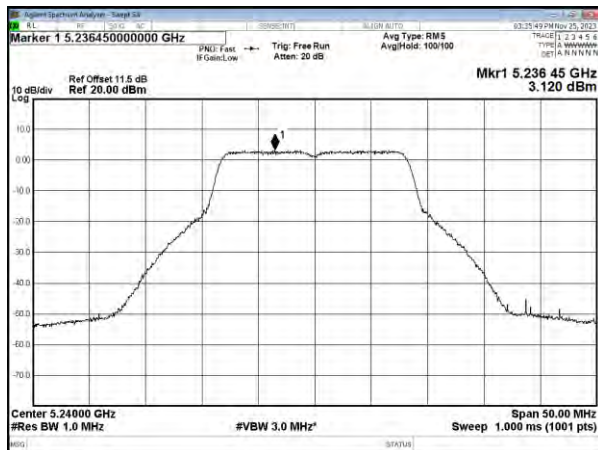
CH44



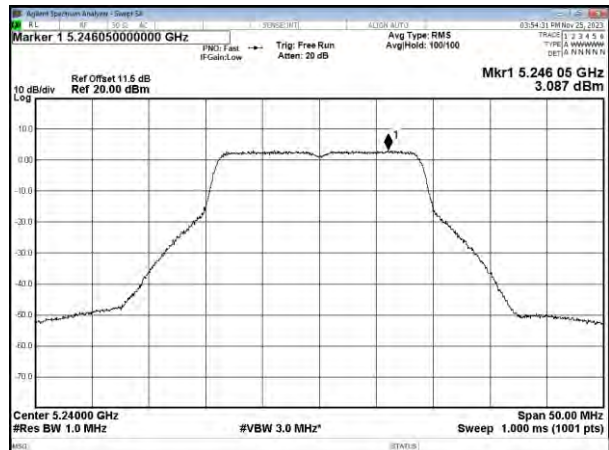
CH44



CH48



CH48

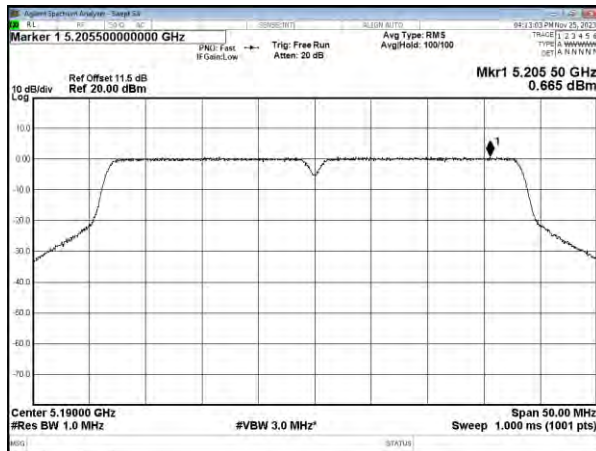




UNII-1

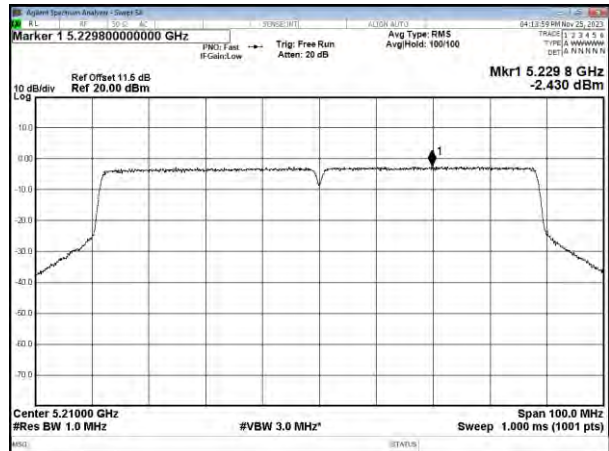
Modulation Standard: 802.11ac VHT40

CH38



Modulation Standard: 802.11ac VHT80

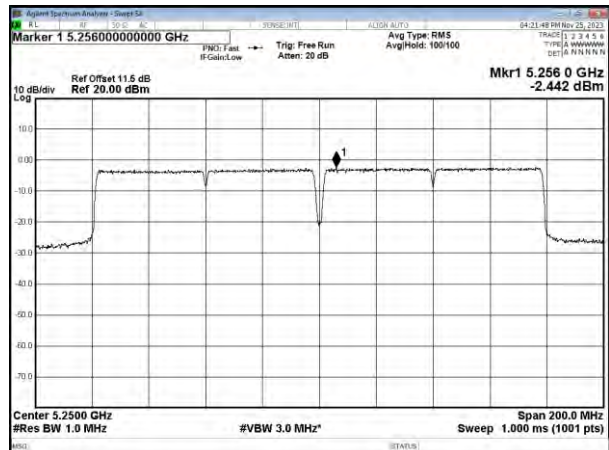
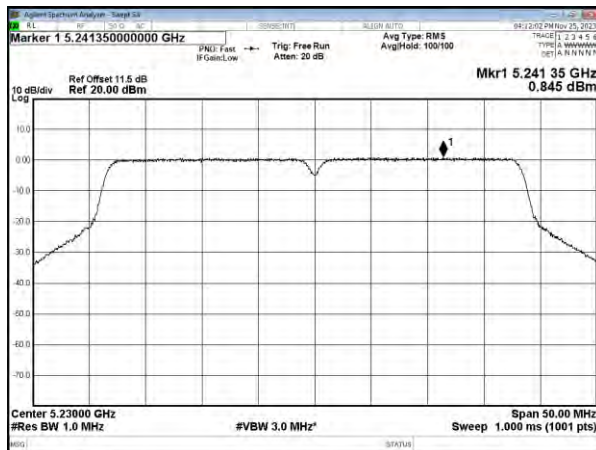
CH42



CH46

Modulation Standard: 802.11ac VHT160

CH50

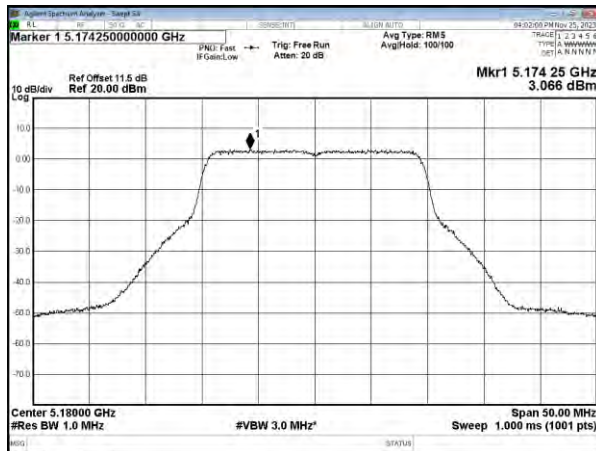




UNII-1

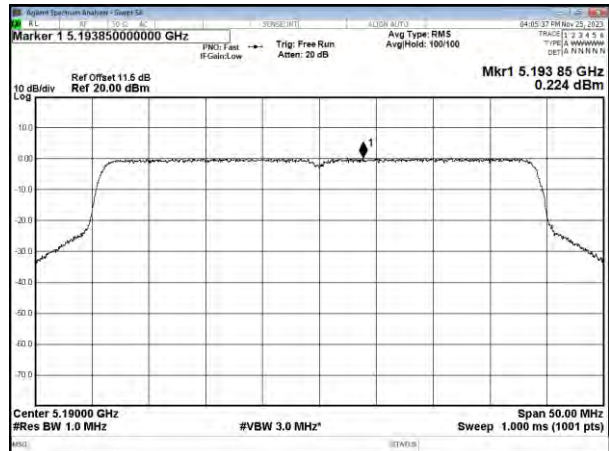
Modulation Standard: 802.11 ax HE20

CH36

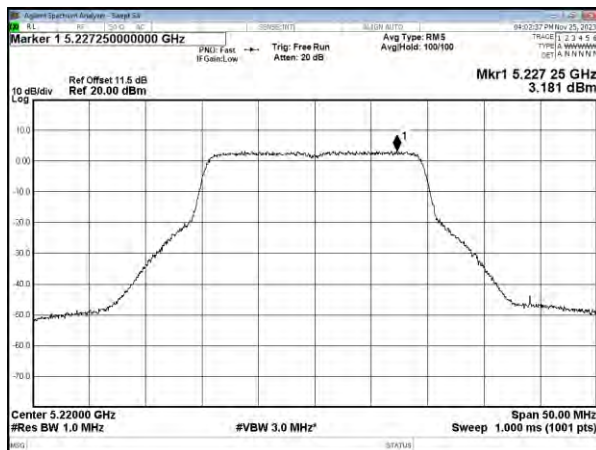


Modulation Standard: 802.11 ax HE40

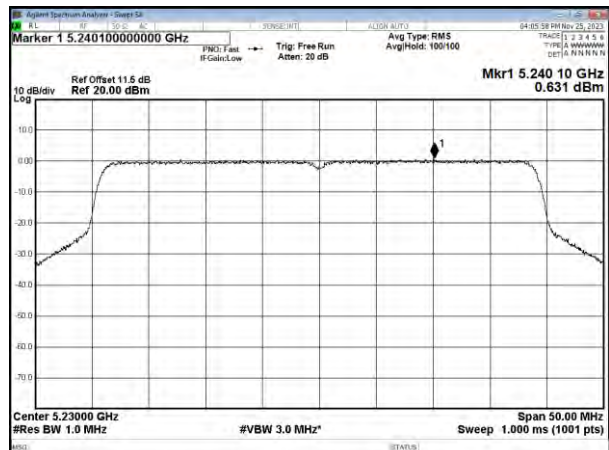
CH38



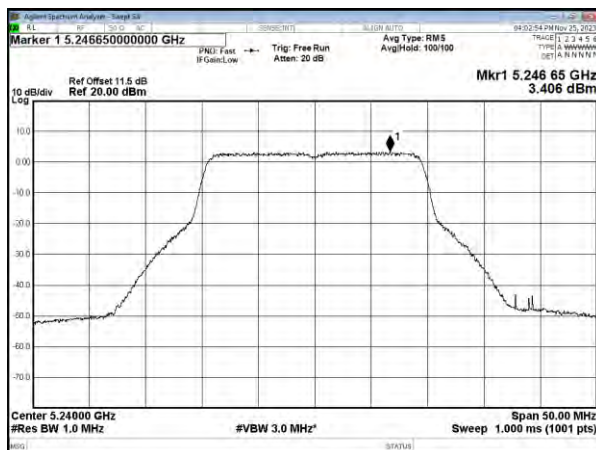
CH44



CH46

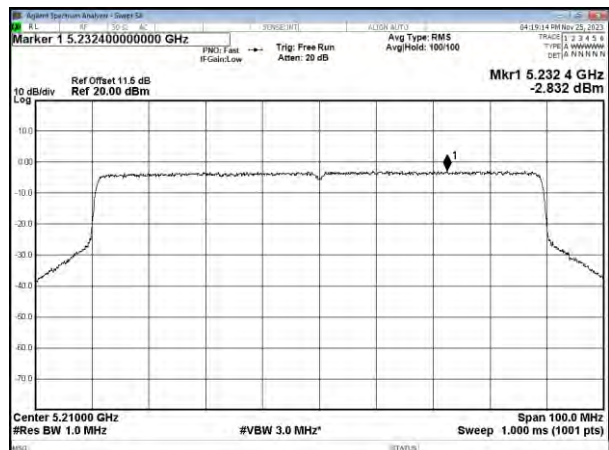


CH48



Modulation Standard: 802.11 ax HE80

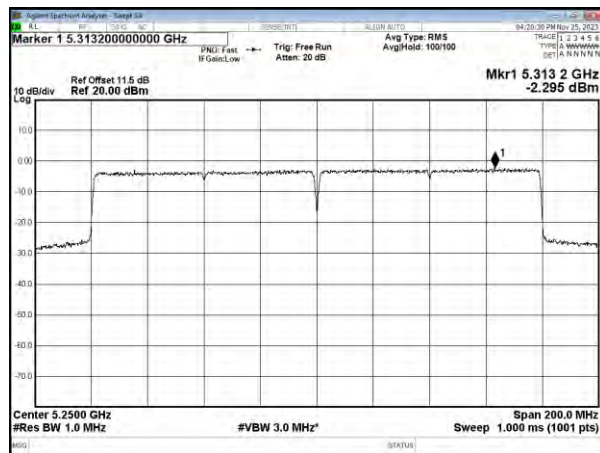
CH42





Modulation Standard: 802.11 ax HE160

CH50

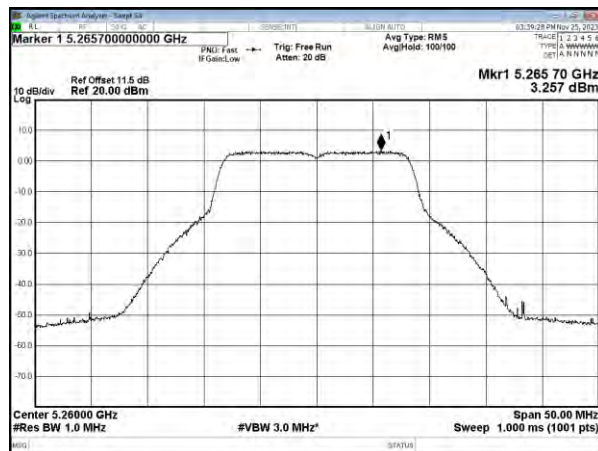




UNII-2A

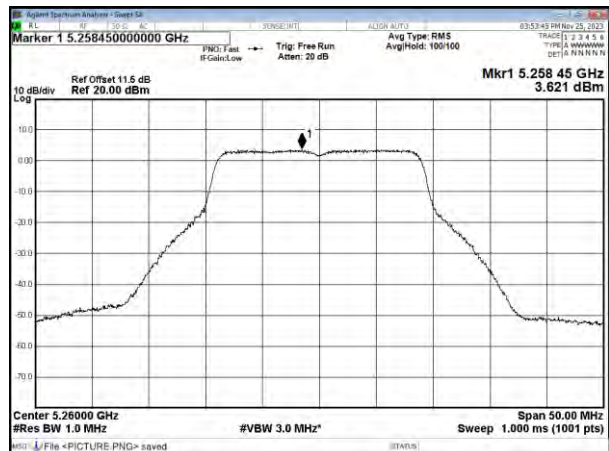
Modulation Standard: 802.11a

CH52

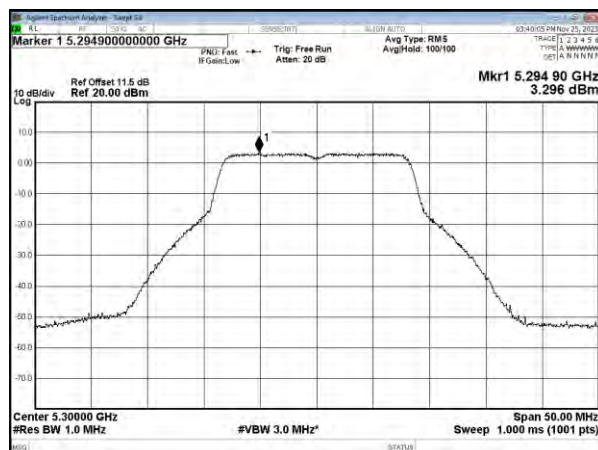


Modulation Standard: 802.11ac VHT20

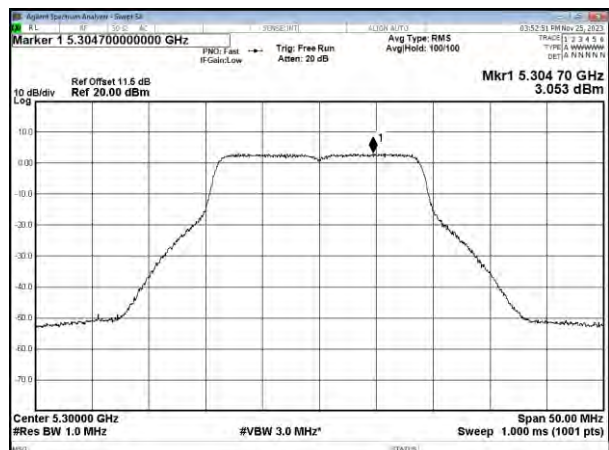
CH52



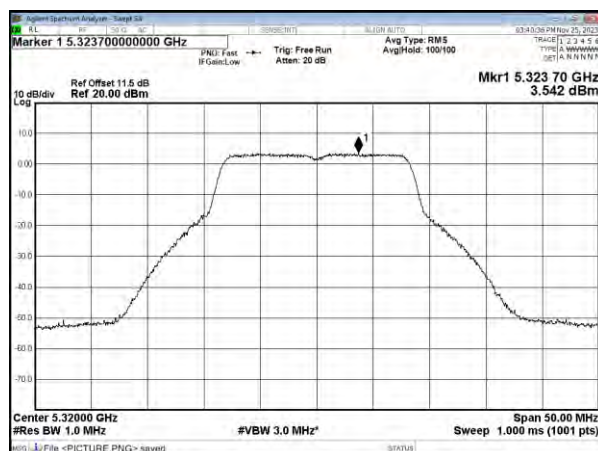
CH60



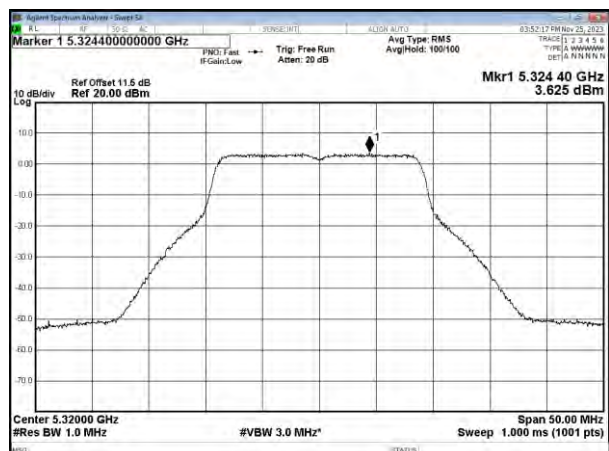
CH60



CH64



CH64

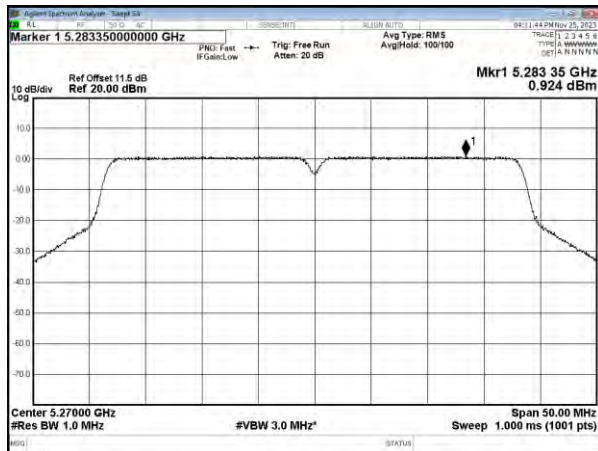




UNII-2A

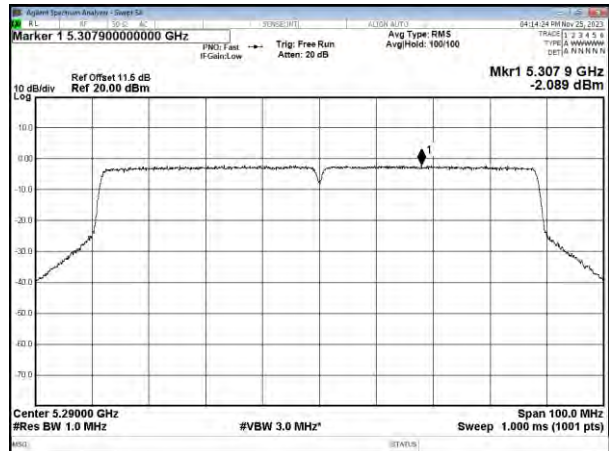
Modulation Standard: 802.11ac VHT40

CH54

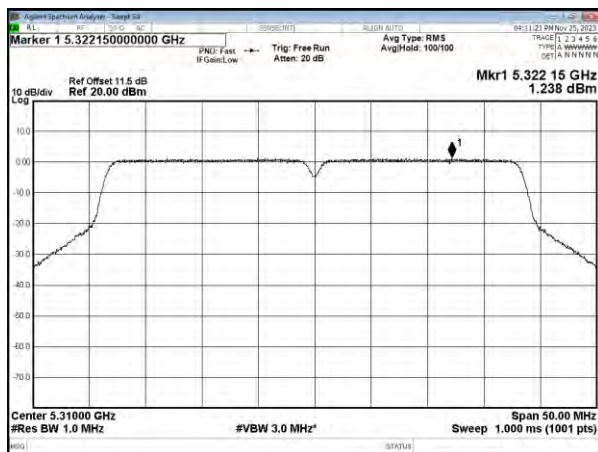


Modulation Standard: 802.11ac VHT80

CH58



CH62

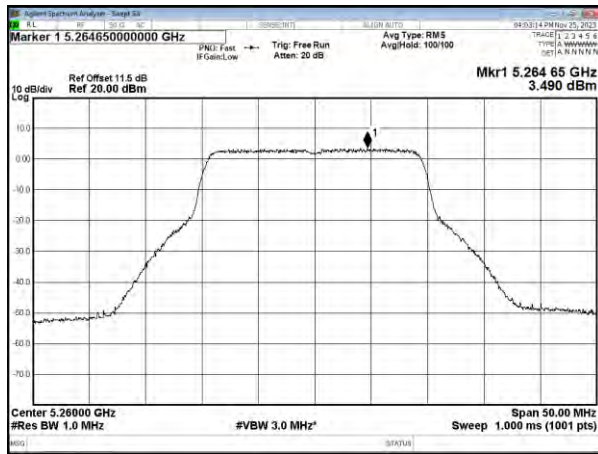




UNII-2A

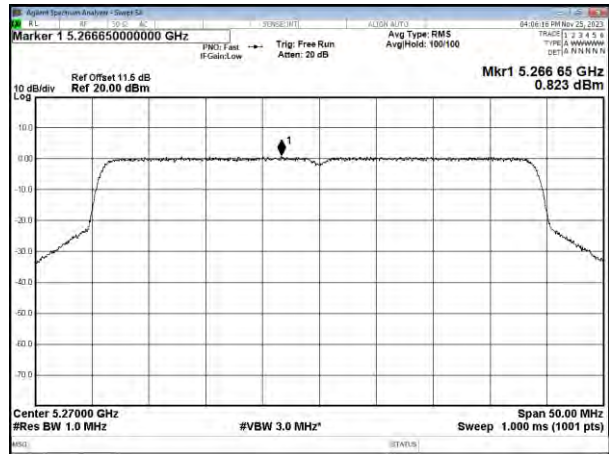
Modulation Standard: 802.11 ax HE20

CH52

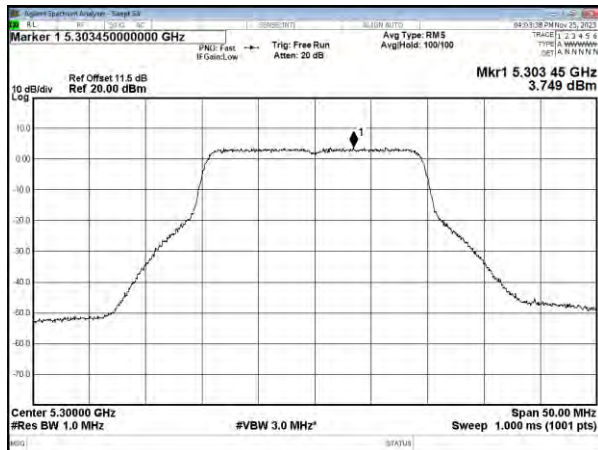


Modulation Standard: 802.11 ax HE40

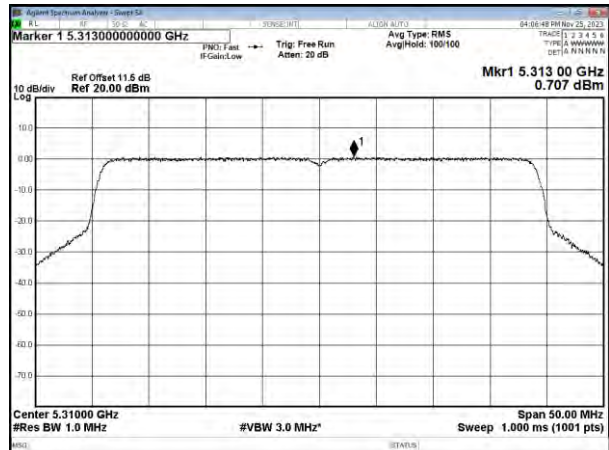
CH54



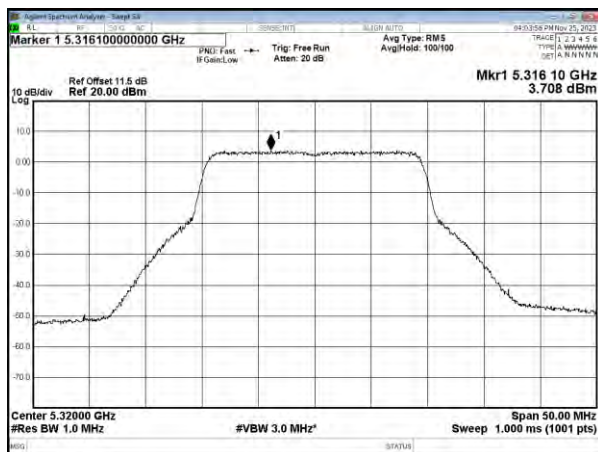
CH60



CH62

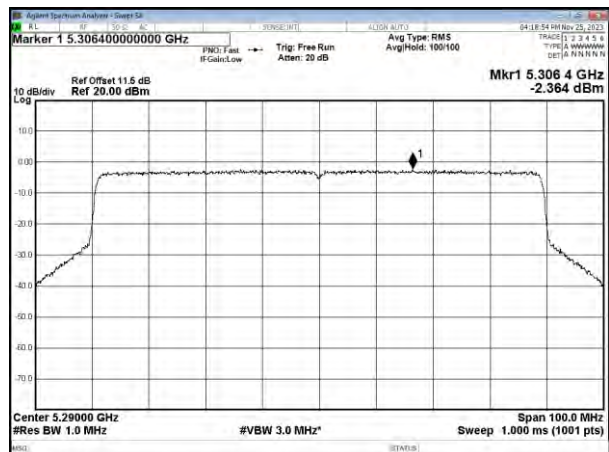


CH64



Modulation Standard: 802.11 ax HE80

CH58

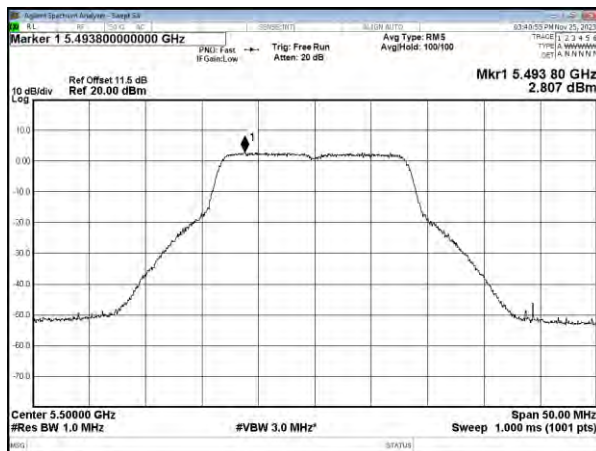




UNII-2C

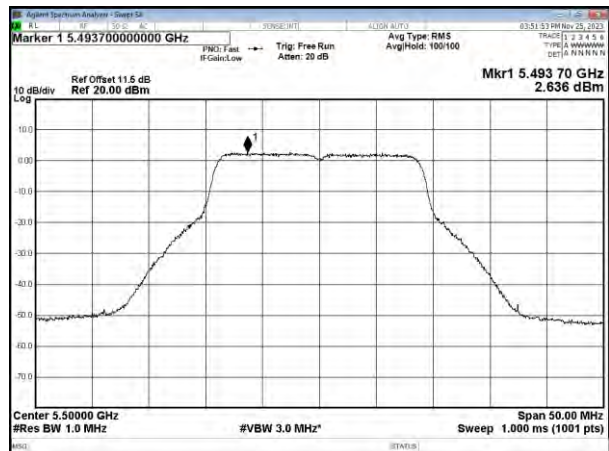
Modulation Standard: 802.11a

CH100

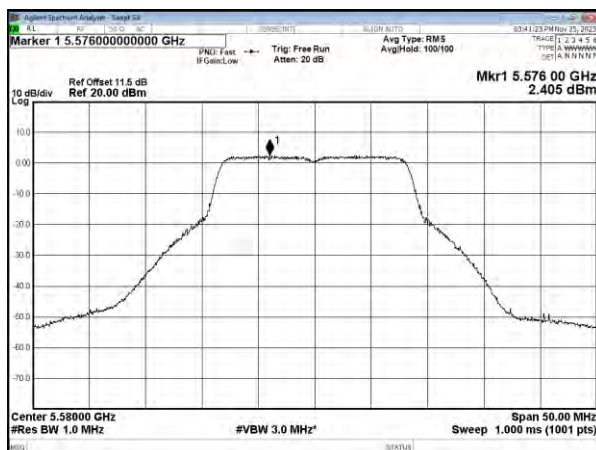


Modulation Standard: 802.11ac VHT20

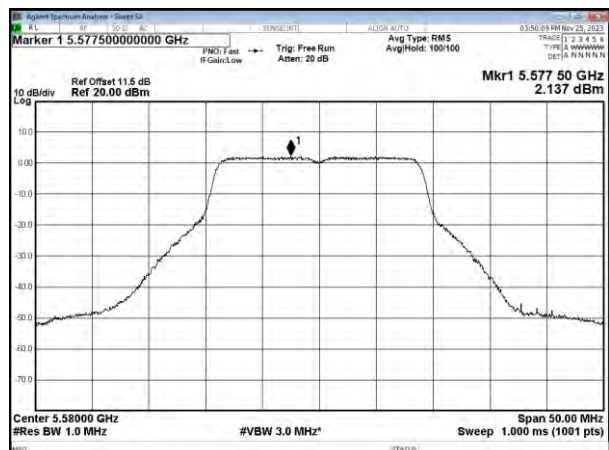
CH100



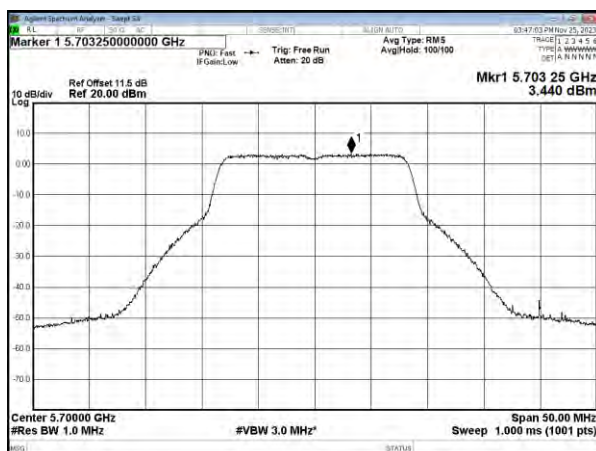
CH116



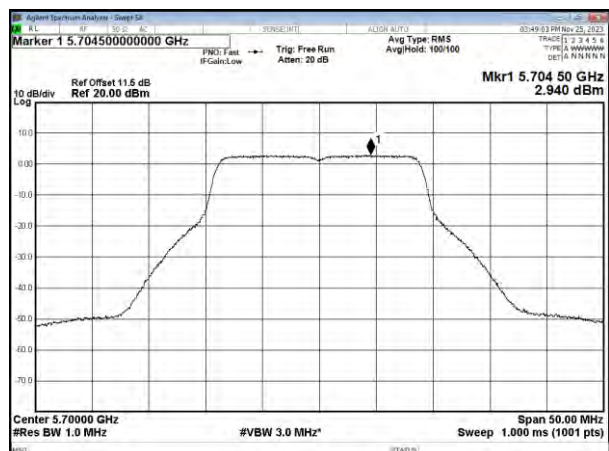
CH116



CH140



CH140

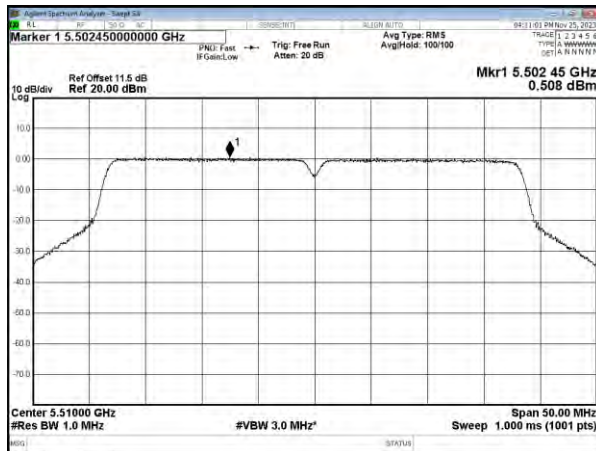




UNII-2C

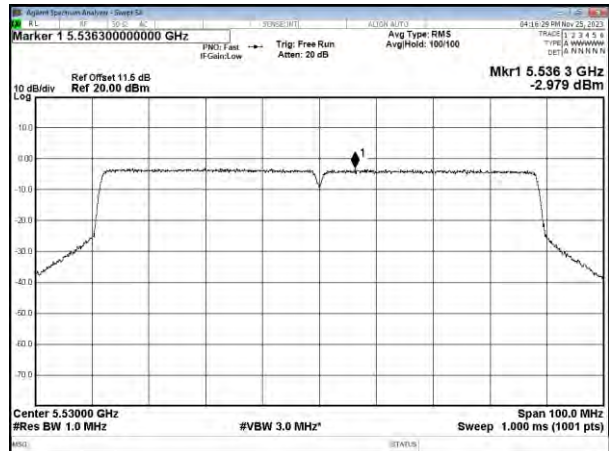
Modulation Standard: 802.11ac VHT40

CH102

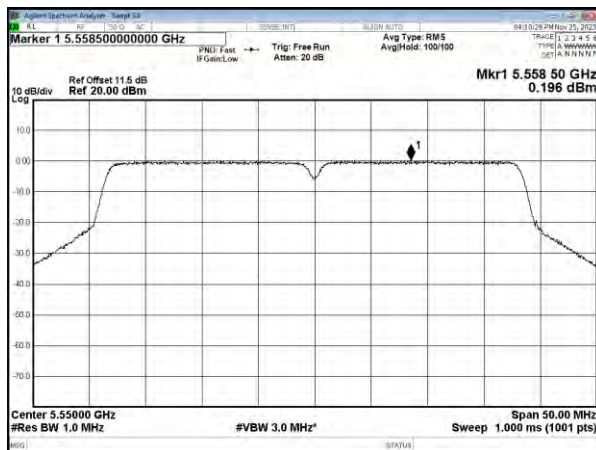


Modulation Standard: 802.11ac VHT80

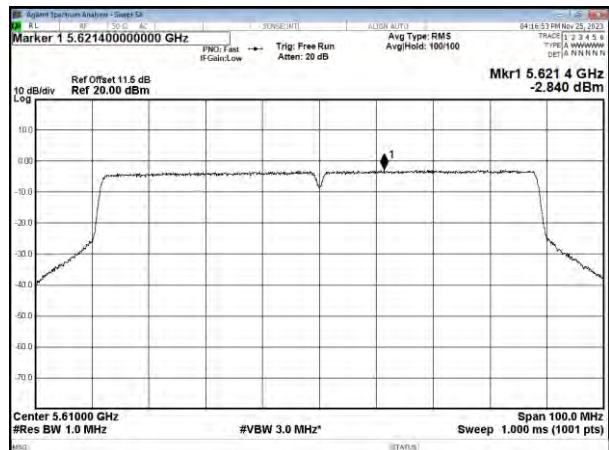
CH106



CH110

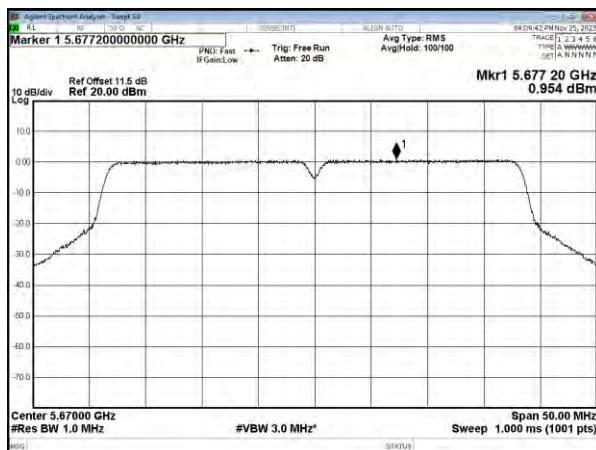


CH122

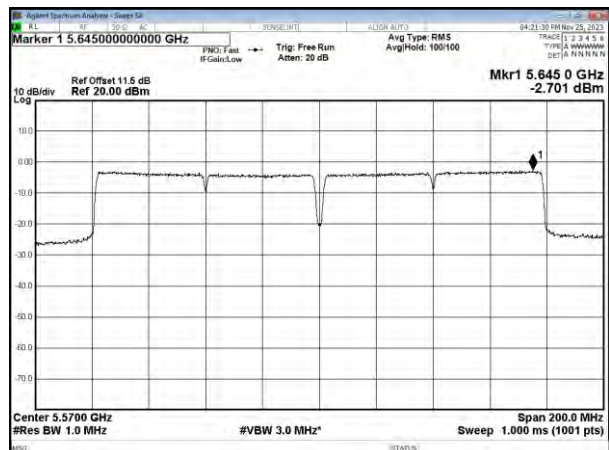


Modulation Standard: 802.11ac VHT160

CH134



CH114

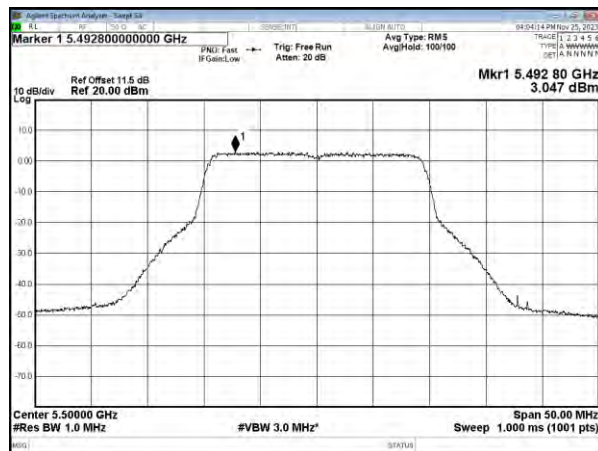




UNII-2C

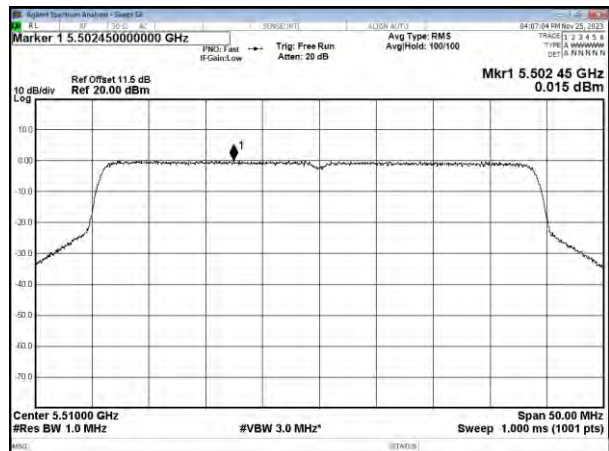
Modulation Standard: 802.11 ax HE20

CH100

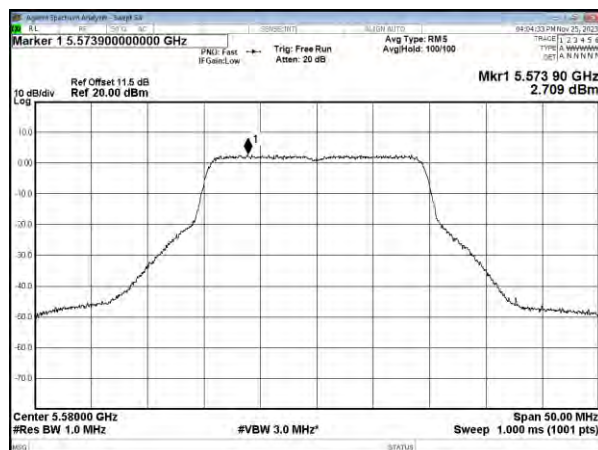


Modulation Standard: 802.11 ax HE40

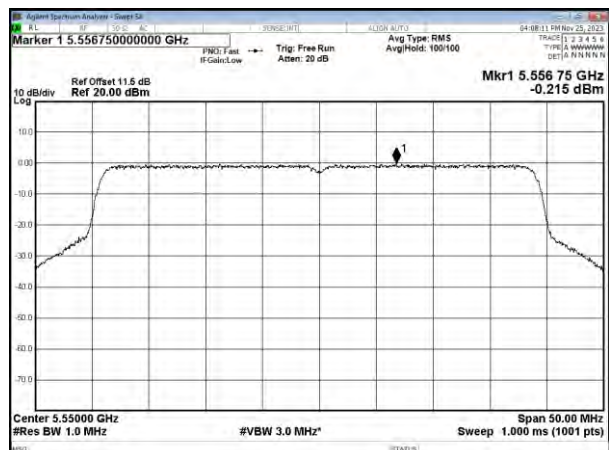
CH102



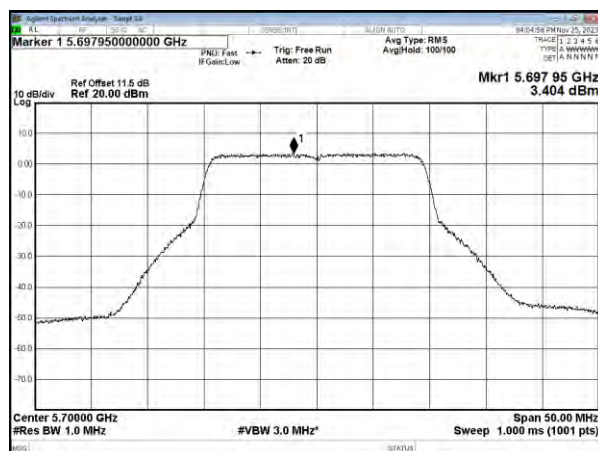
CH116



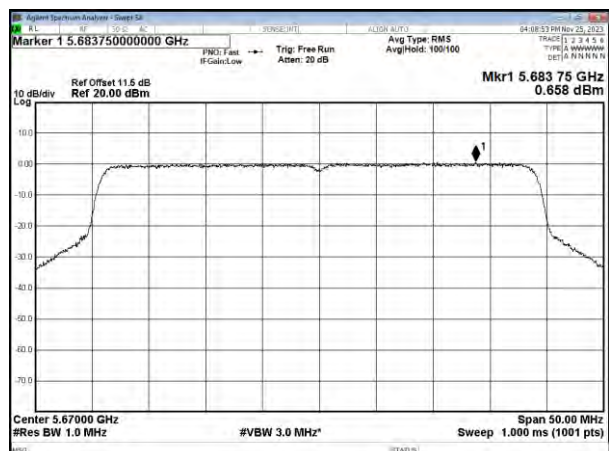
CH110



CH140



CH134

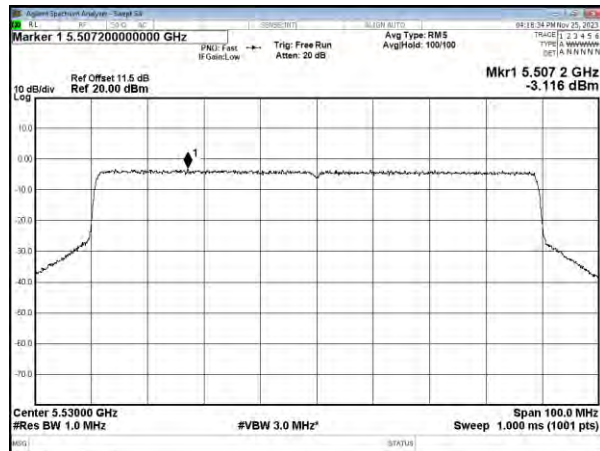




UNII-2C

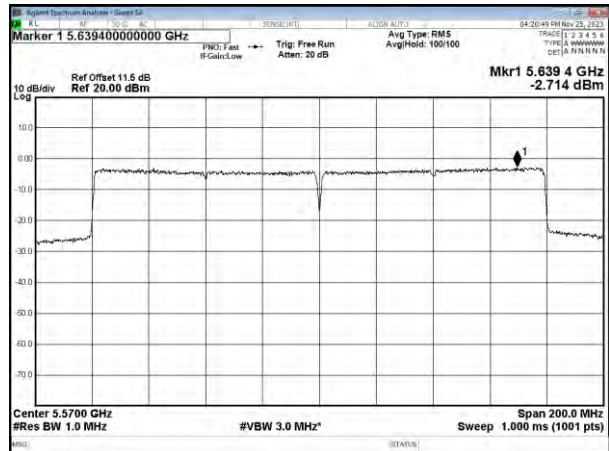
Modulation Standard: 802.11 ax HE80

CH106

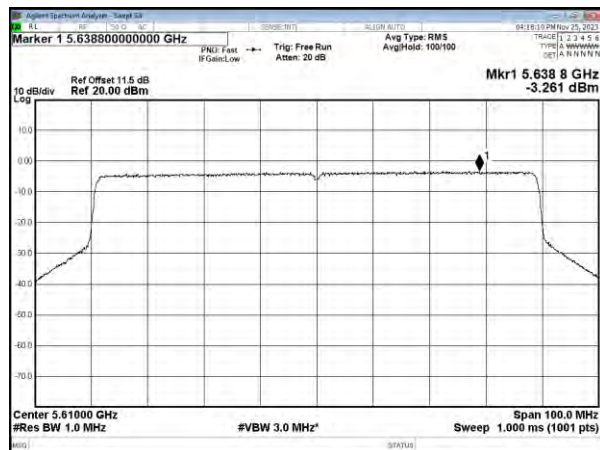


Modulation Standard: 802.11ax HE160

CH114



CH122





Band: Straddle Channel

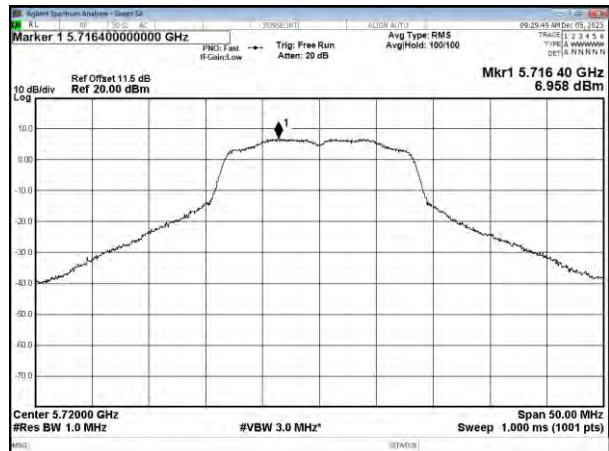
Modulation Standard: 802.11a

CH144



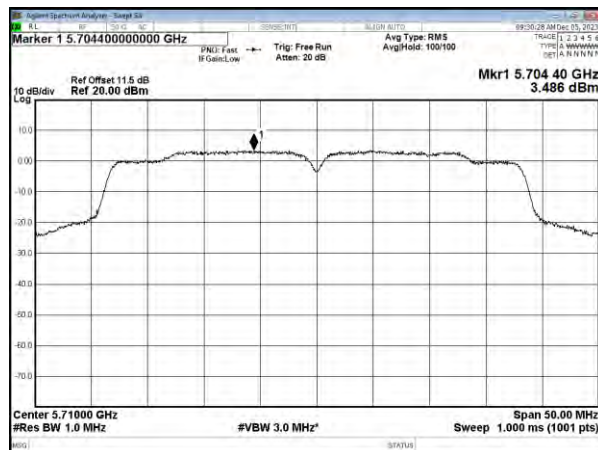
Modulation Standard: 802.11ac VHT20

CH144



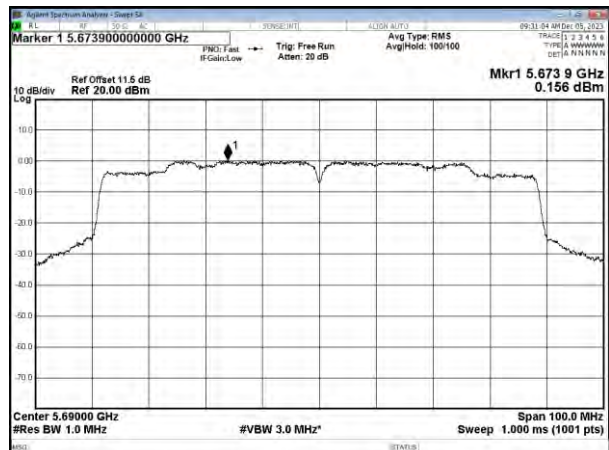
Modulation Standard: 802.11ac VHT40

CH142



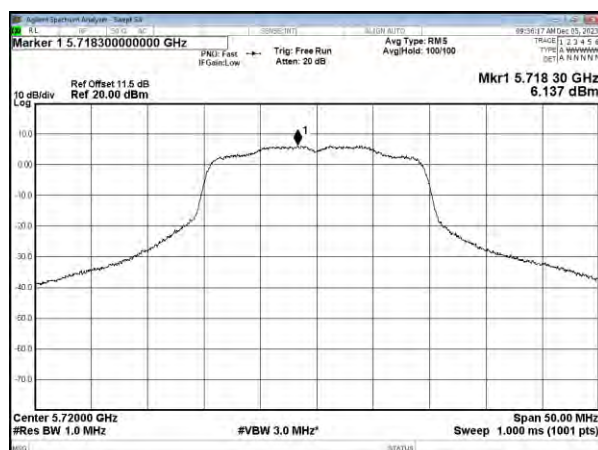
Modulation Standard: 802.11ac VHT80

CH138



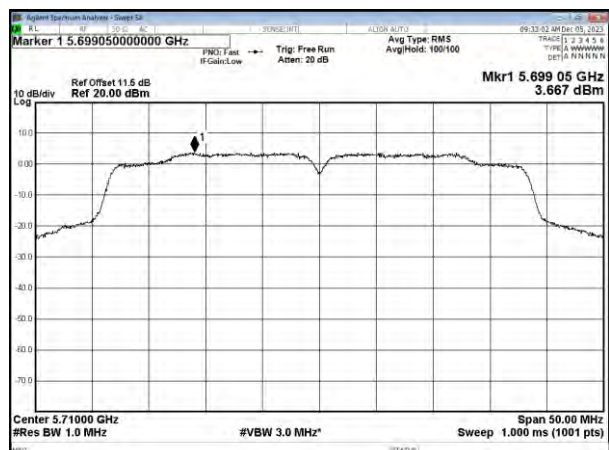
Modulation Standard: 802.11 ax HE20

CH144



Modulation Standard: 802.11 ax HE40

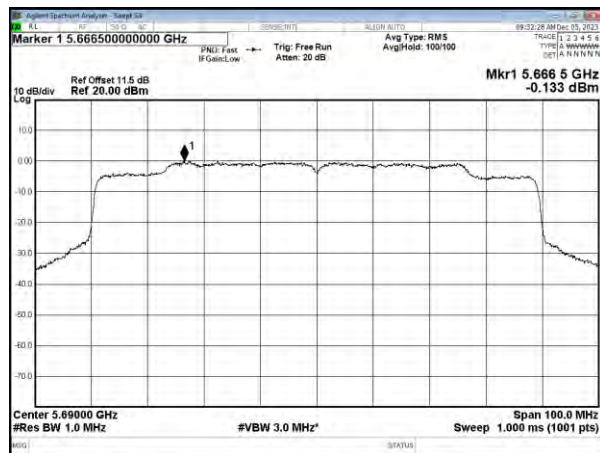
CH142





Modulation Standard: 802.11 ax HE80

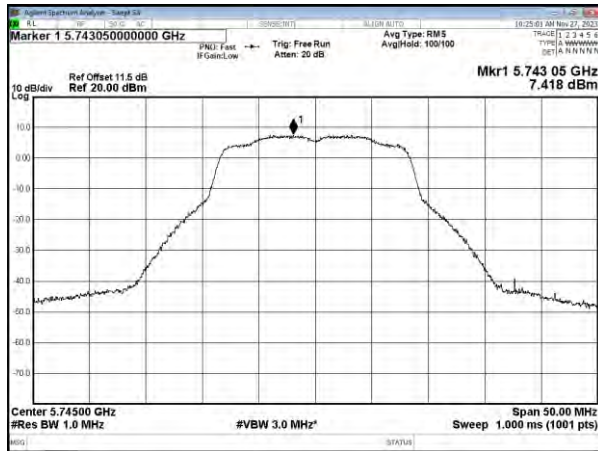
CH138



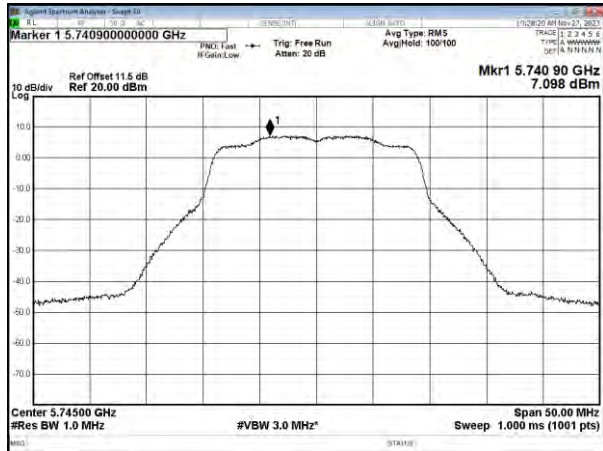


UNII-3

Modulation Type: 802.11a
CH149



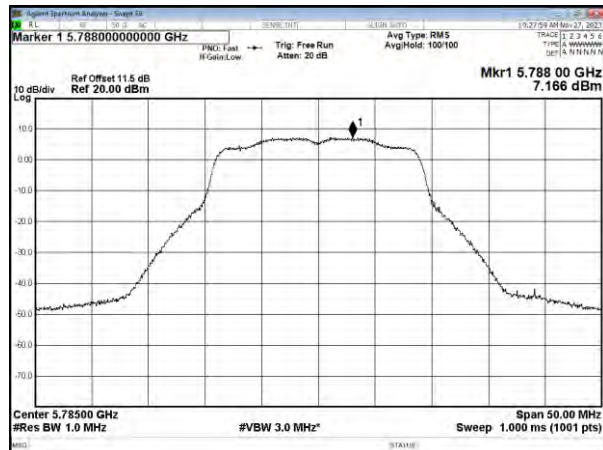
Modulation Type: 802.11ac, VHT20
CH149



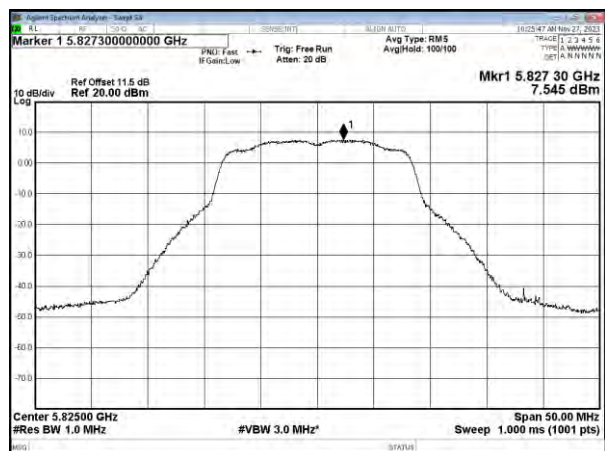
CH157



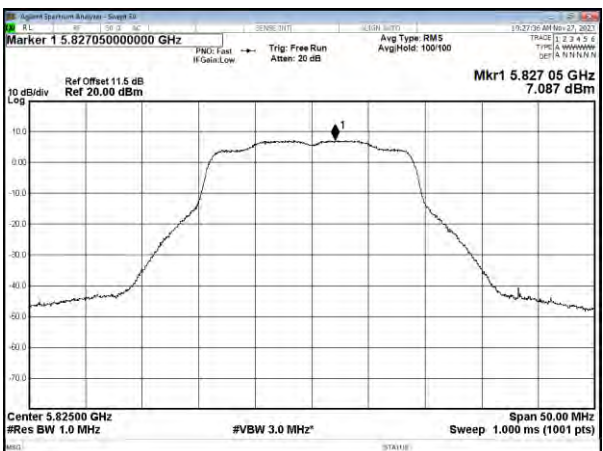
CH157



CH165



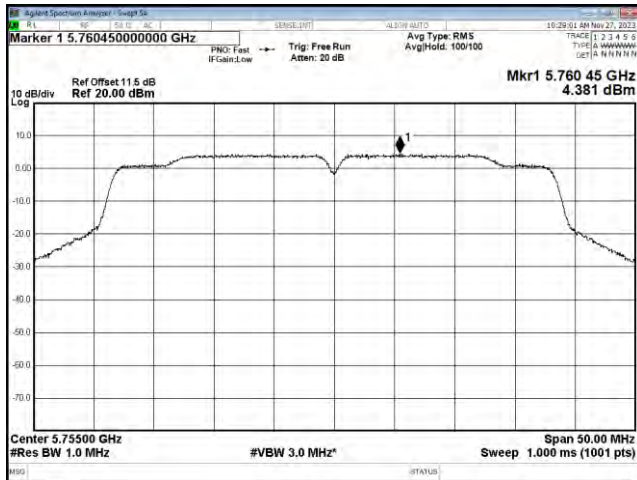
CH165



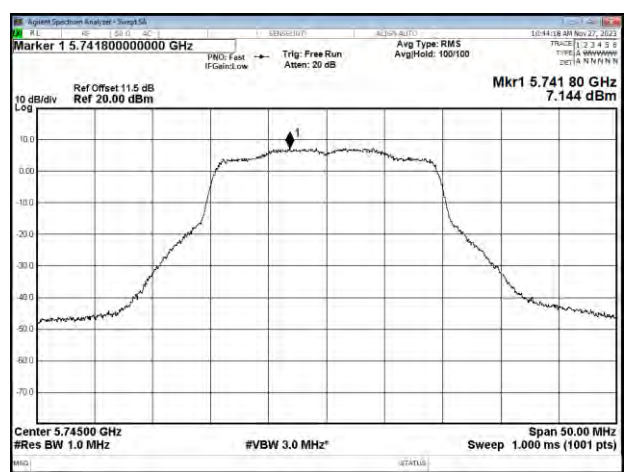


UNII-3

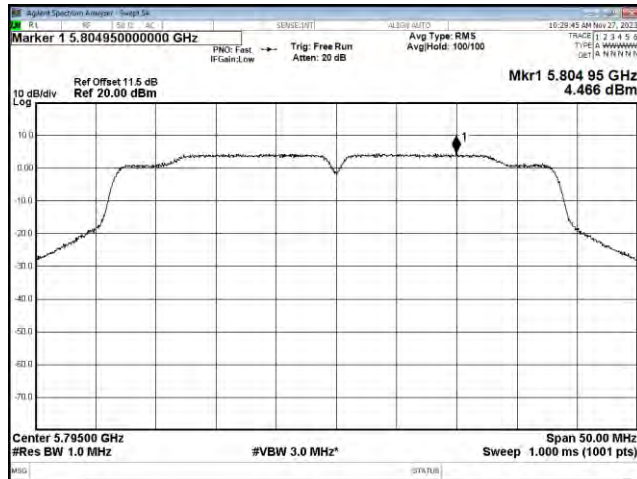
Modulation Type: 802.11ac, VHT40
CH151



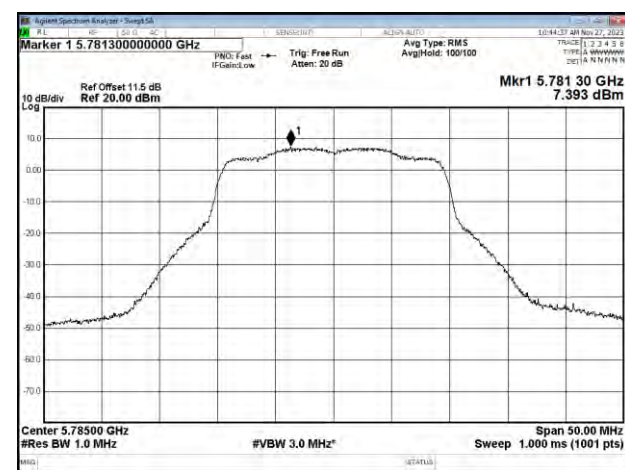
Modulation Type: 802.11n ax HE20
CH149



CH159

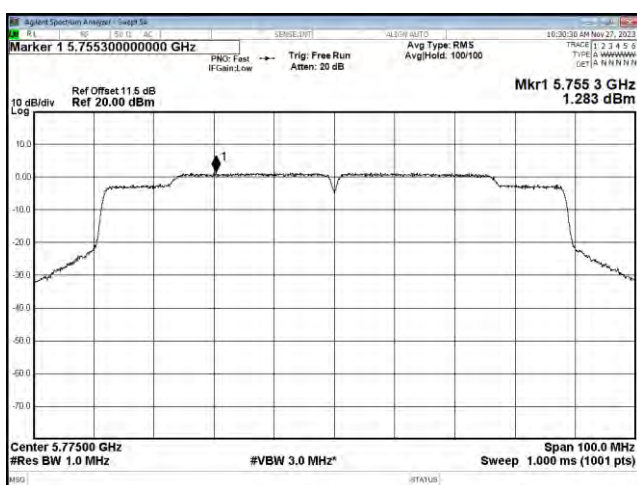


CH157

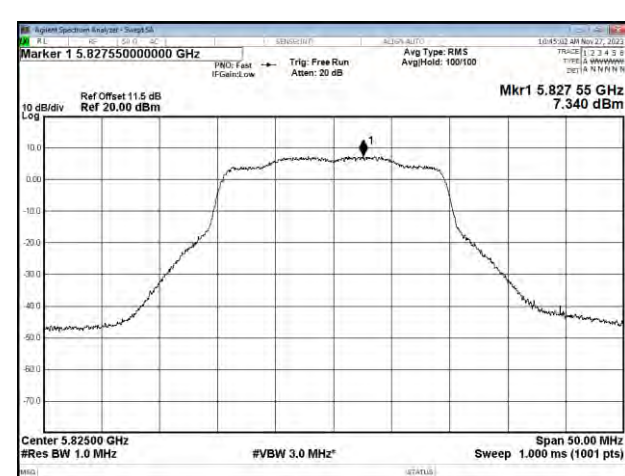


Modulation Type: 802.11ac, VHT80

CH155



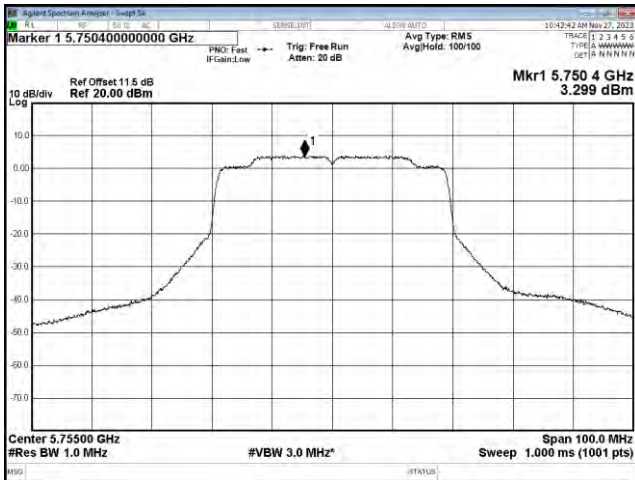
CH165



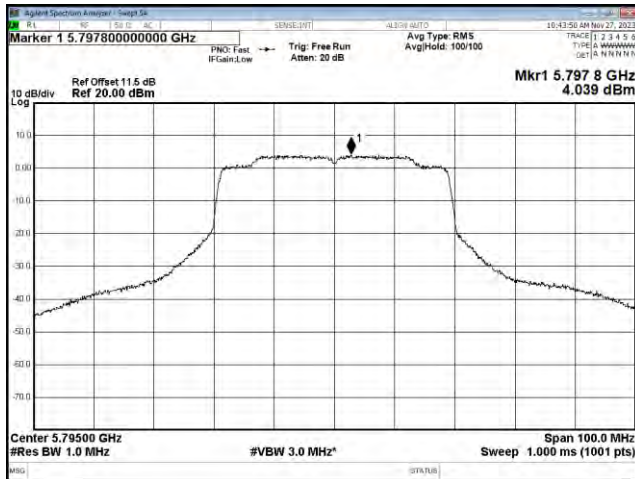


UNII-3

Modulation Type: 802.11 ax HE40
CH151

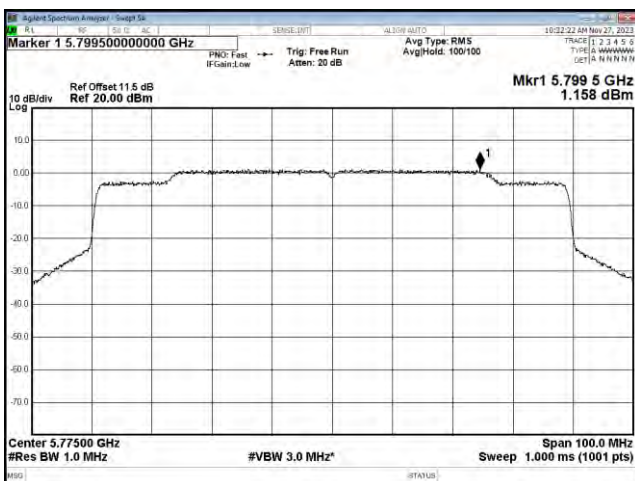


CH159



Modulation Type: 802.11ax HE80

CH155

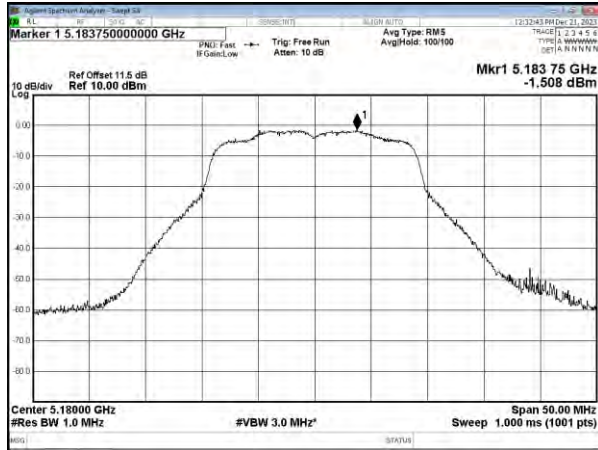




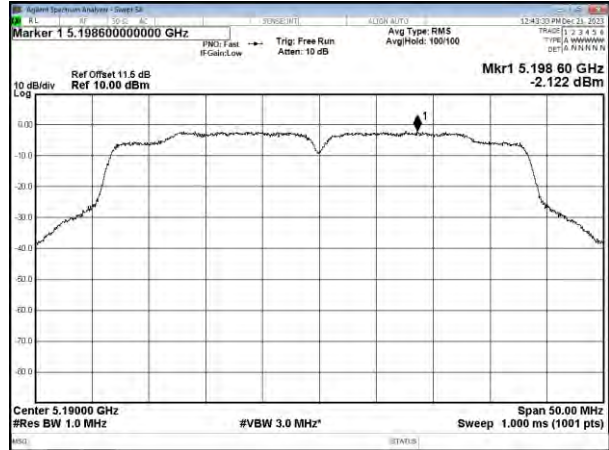
MIMO (ANT A)

UNII-1

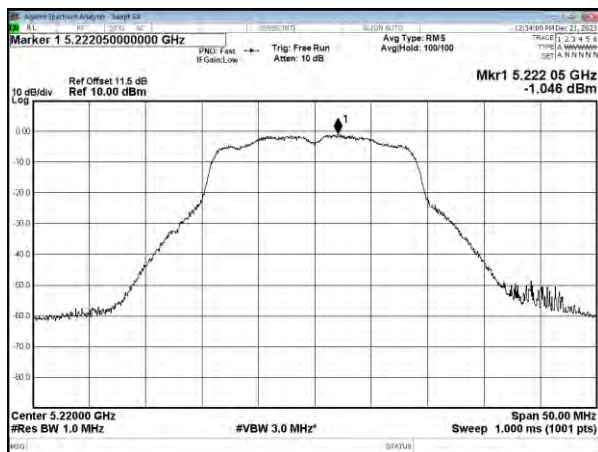
Modulation Standard: 802.11ac VHT20
CH36



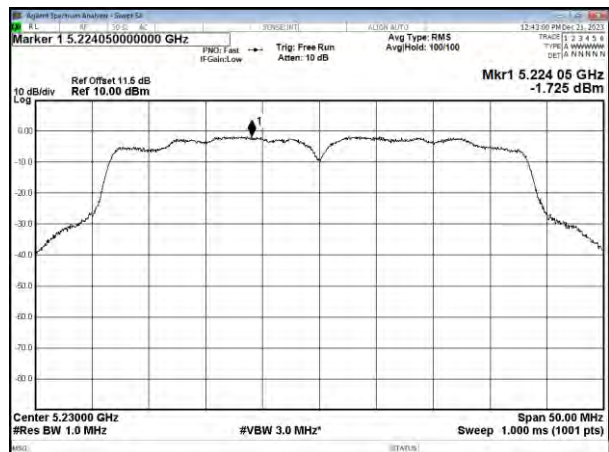
Modulation Standard: 802.11ac VHT40
CH38



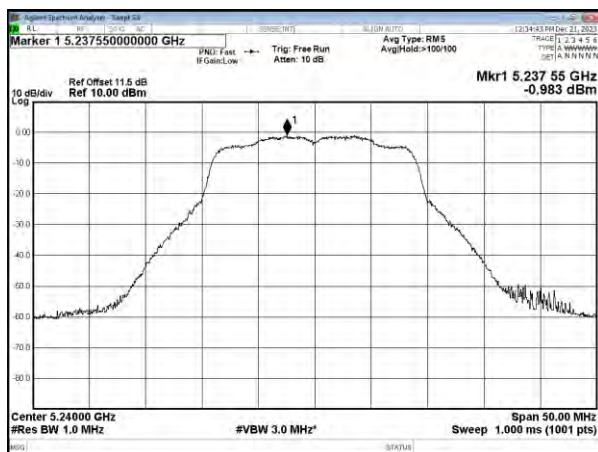
CH44



CH46

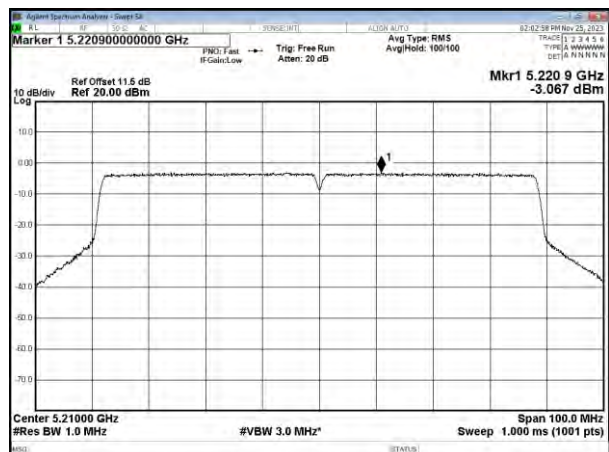


CH48



Modulation Standard: 802.11ac VHT80

CH42

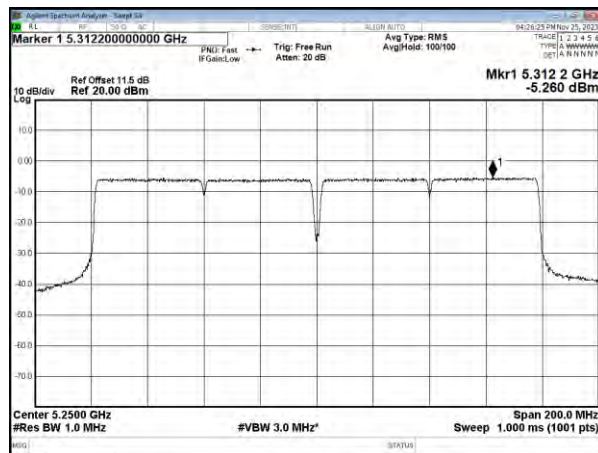




UNII-1

Modulation Standard: 802.11ac VHT160

CH50

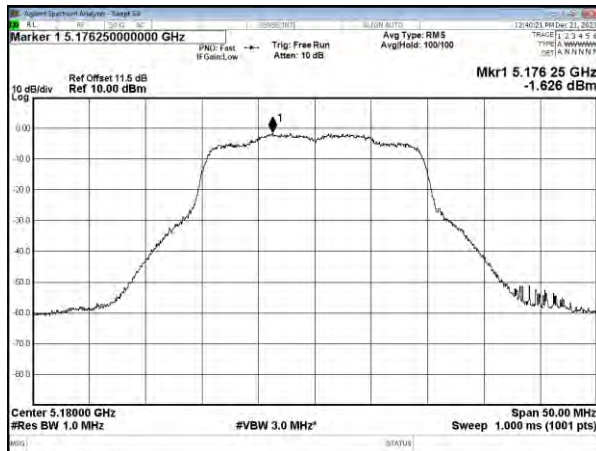




UNII-1

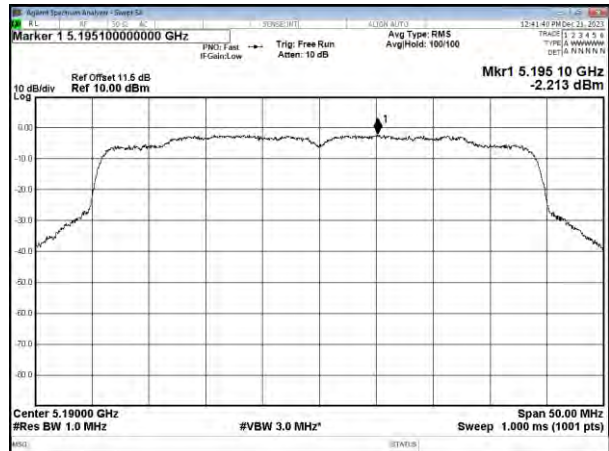
Modulation Standard: 802.11 ax HE20

CH36

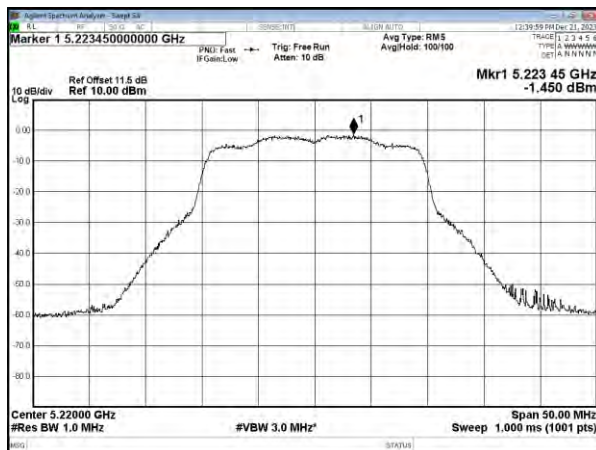


Modulation Standard: 802.11 ax HE40

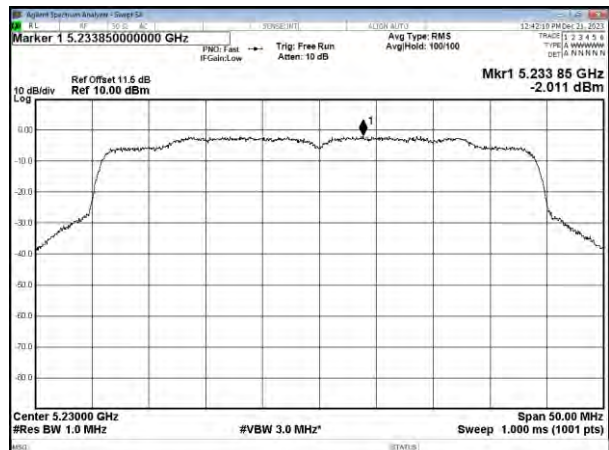
CH38



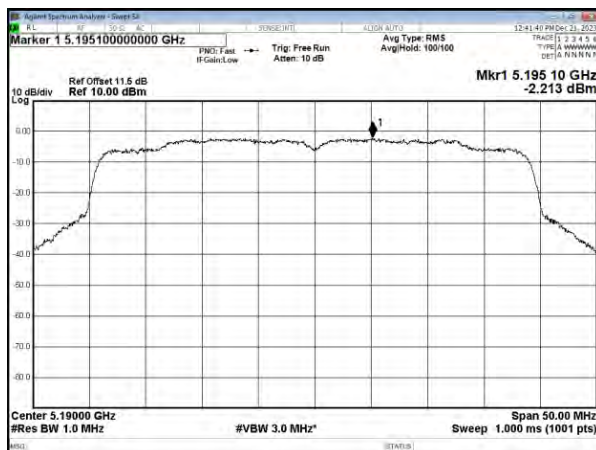
CH44



CH46

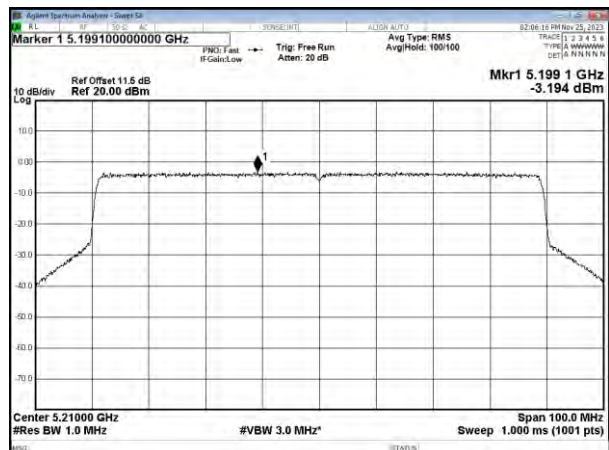


CH48



Modulation Standard: 802.11 ax HE80

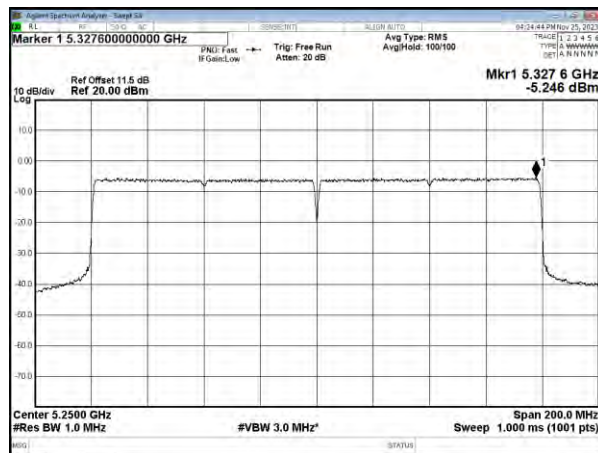
CH42





Modulation Standard: 802.11 ax HE160

CH50

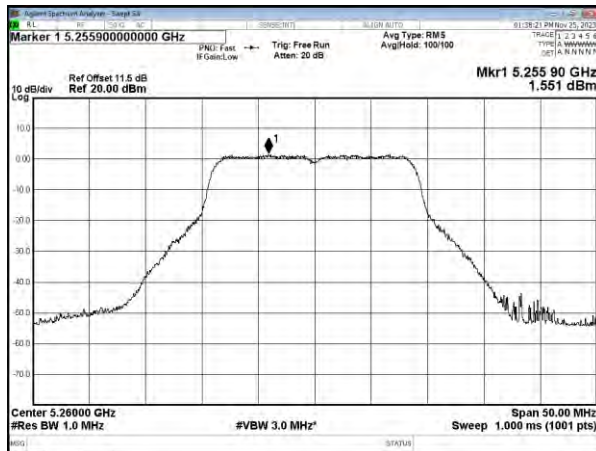




UNII-2A

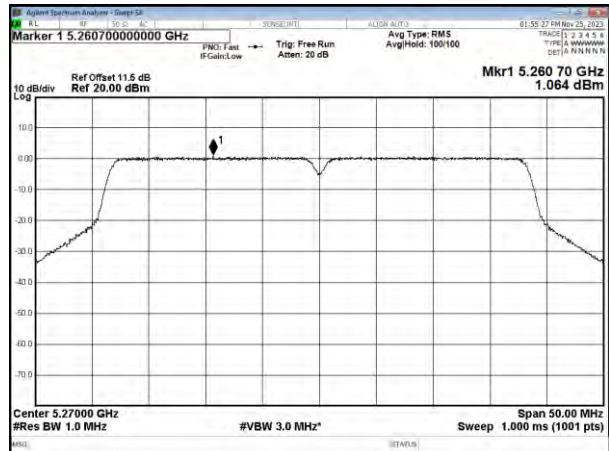
Modulation Standard: 802.11ac VHT20

CH52

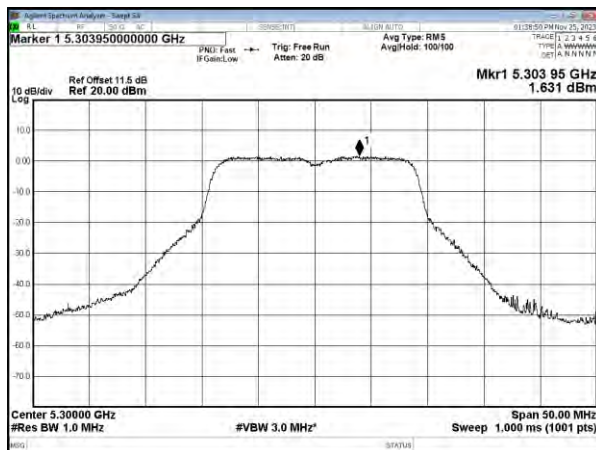


Modulation Standard: 802.11ac VHT40

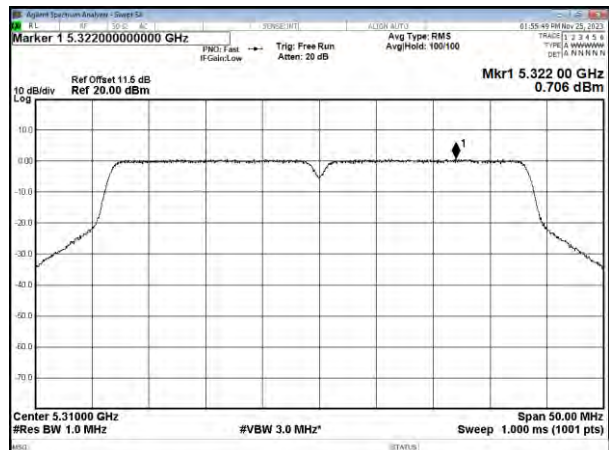
CH54



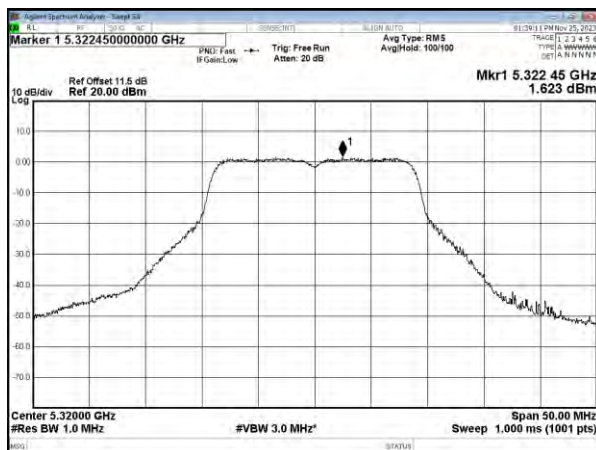
CH60



CH62

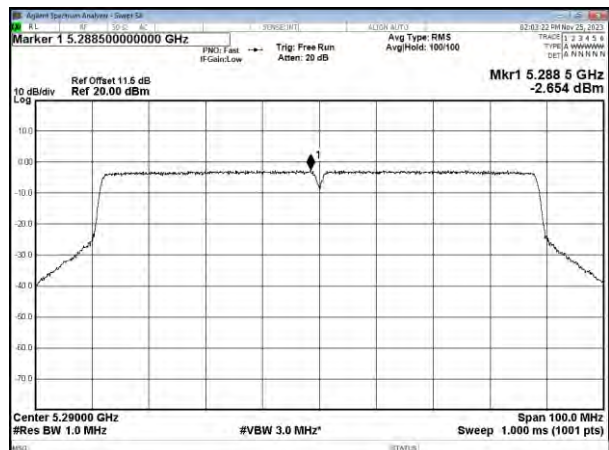


CH64



Modulation Standard: 802.11ac VHT80

CH58

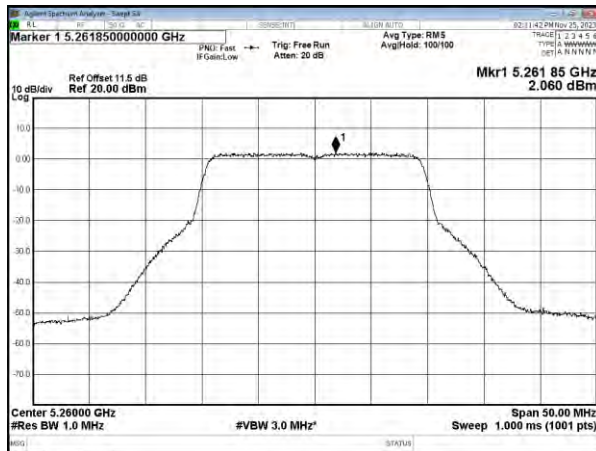




UNII-2A

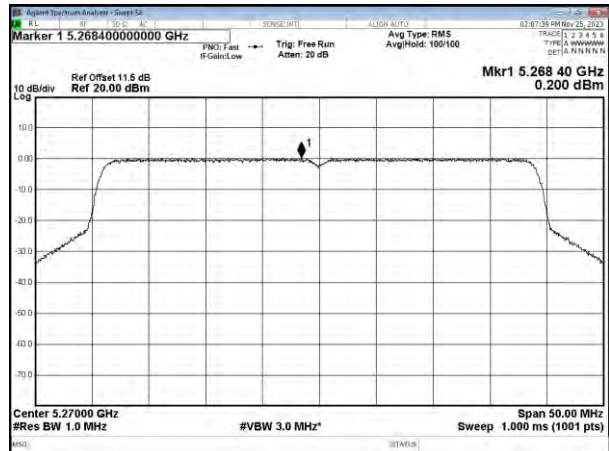
Modulation Standard: 802.11 ax HE20

CH52

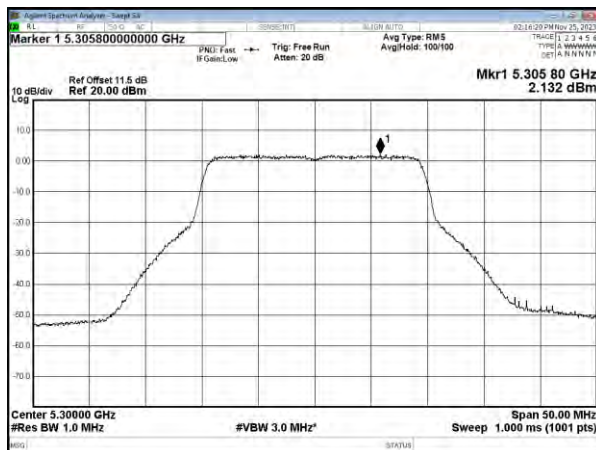


Modulation Standard: 802.11 ax HE40

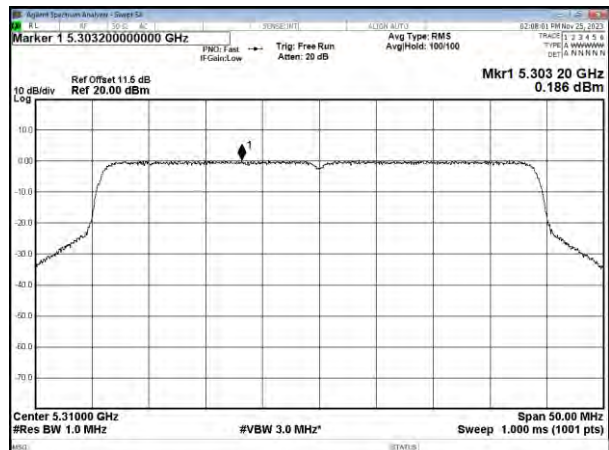
CH54



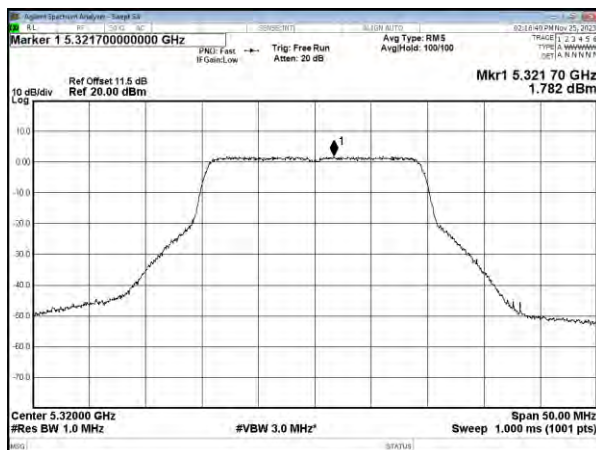
CH60



CH62

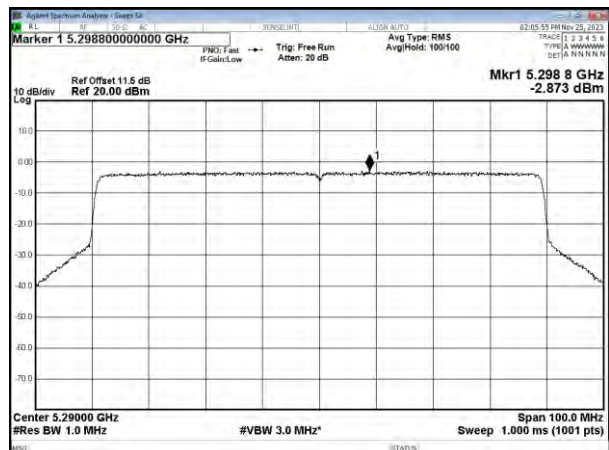


CH64



Modulation Standard: 802.11 ax HE80 (30.6Mbps)

CH58

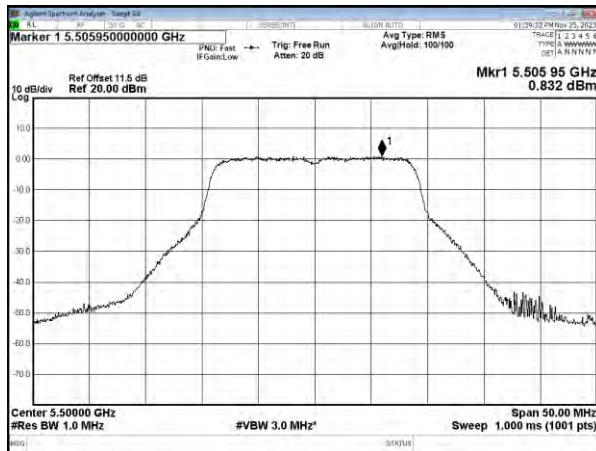




UNII-2C

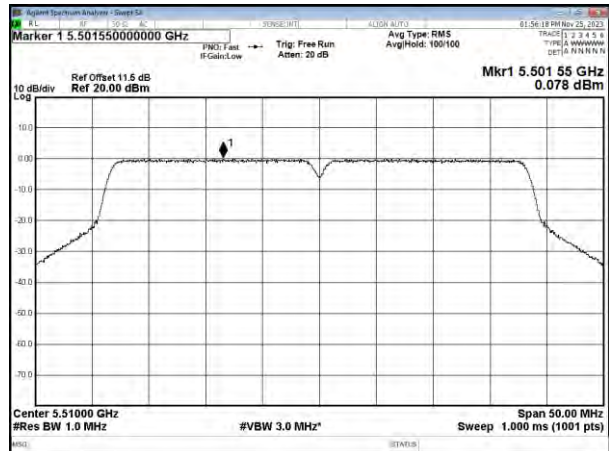
Modulation Standard: 802.11ac VHT20

CH100

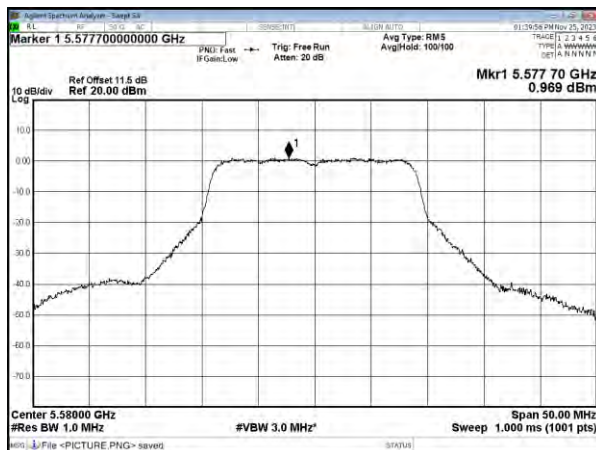


Modulation Standard: 802.11ac VHT40

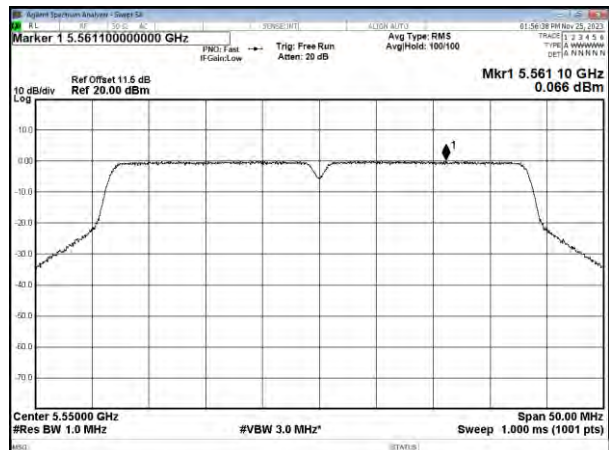
CH102



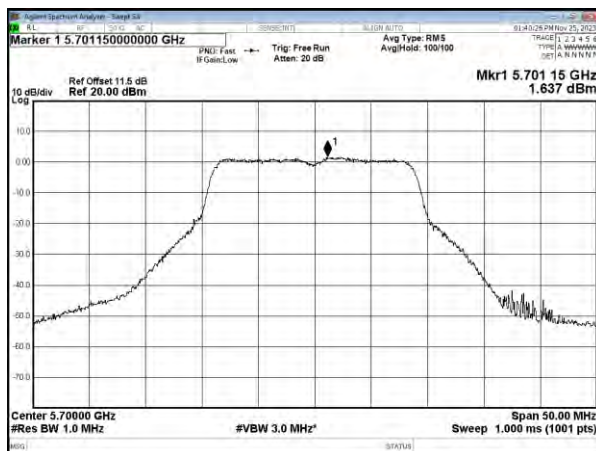
CH116



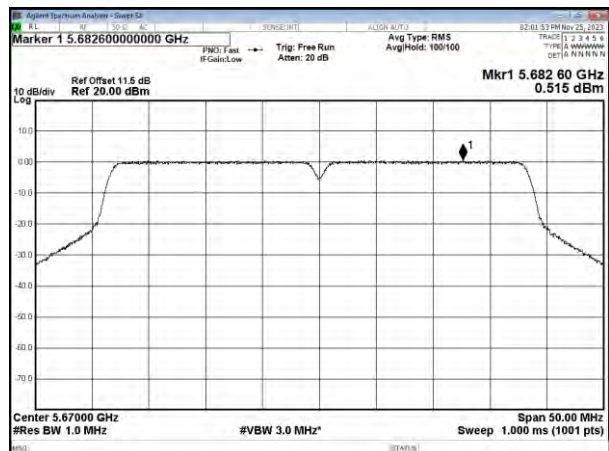
CH110



CH140



CH134

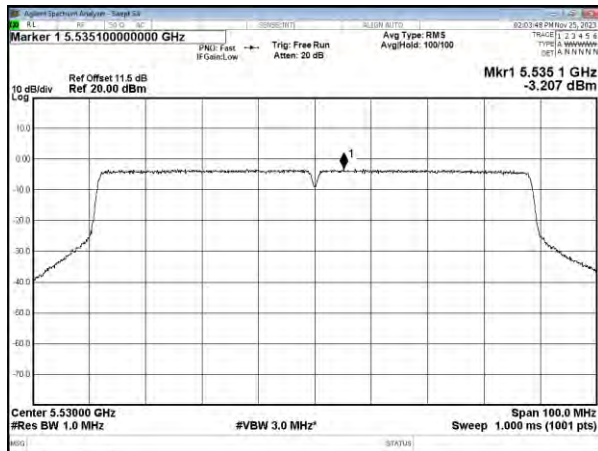




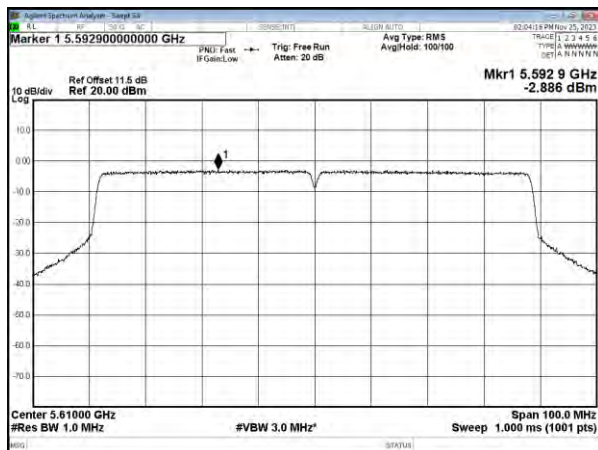
UNII-2C

Modulation Standard: 802.11ac VHT80

CH106

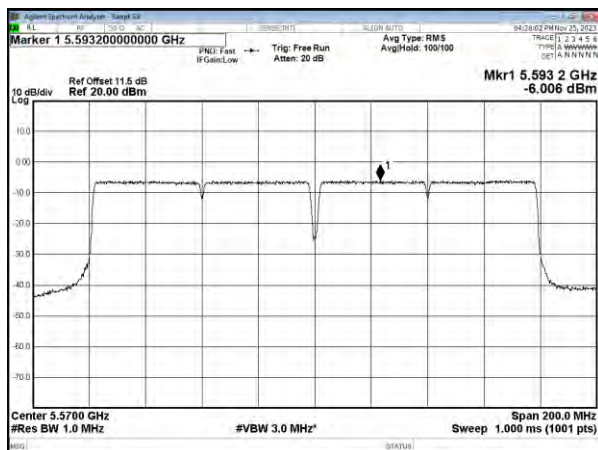


CH122



Modulation Standard: 802.11ac VHT160

CH114

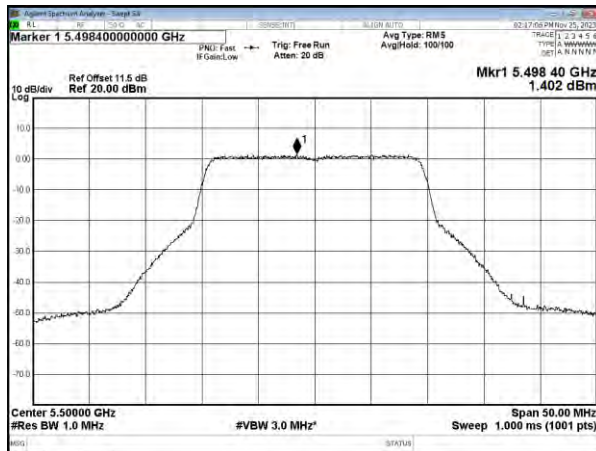




UNII-2C

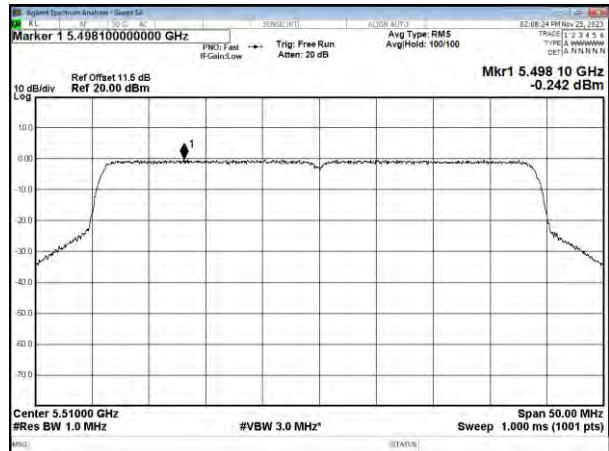
Modulation Standard: 802.11 ax HE20

CH100

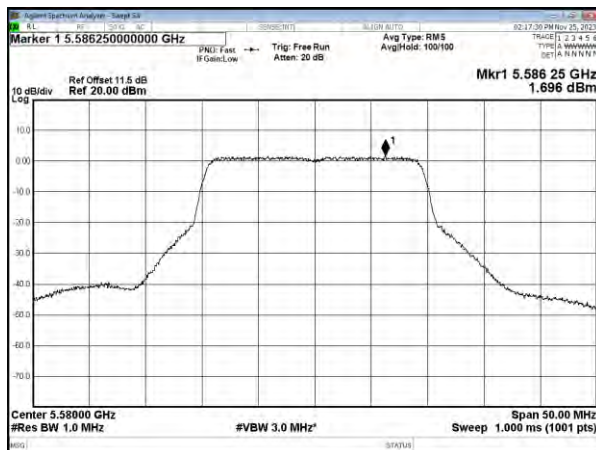


Modulation Standard: 802.11 ax HE40

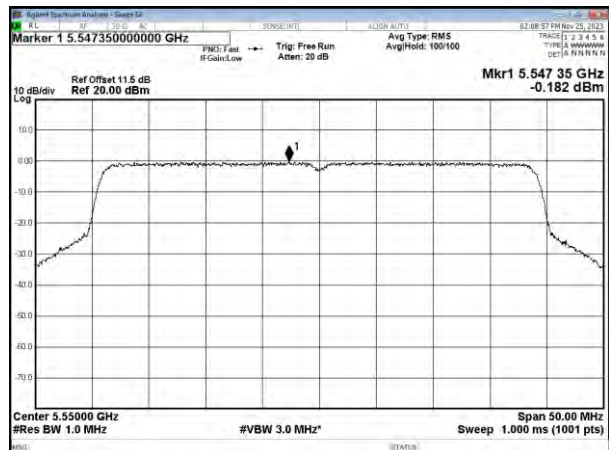
CH102



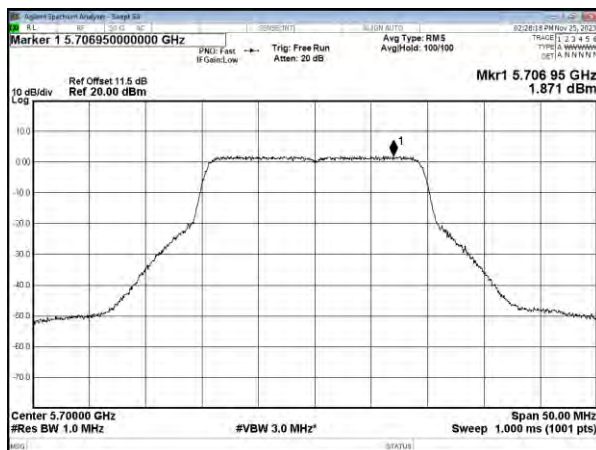
CH116



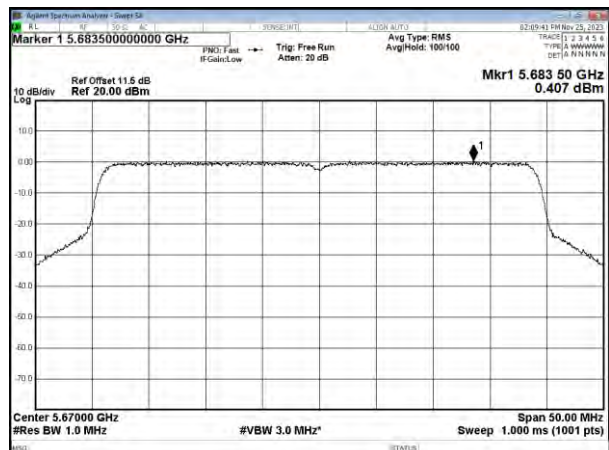
CH110



CH140



CH134

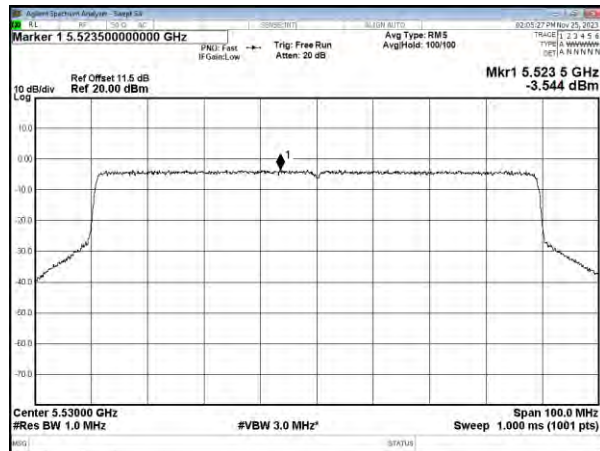




UNII-2C

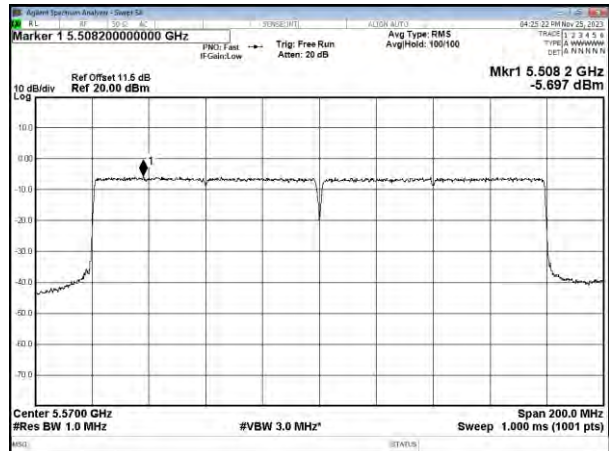
Modulation Standard: 802.11 ax HE80

CH106

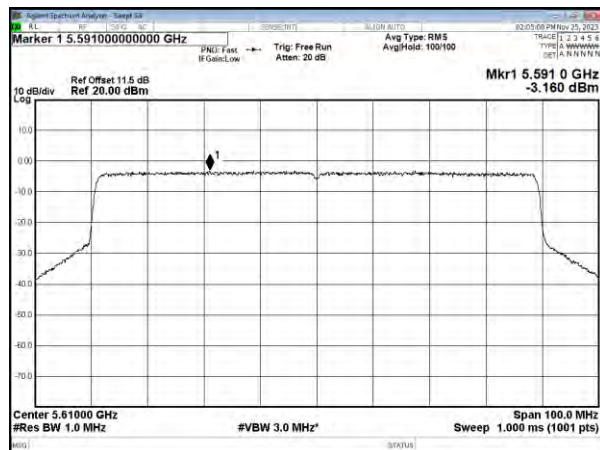


Modulation Standard: 802.11ax HE160

CH114



CH122

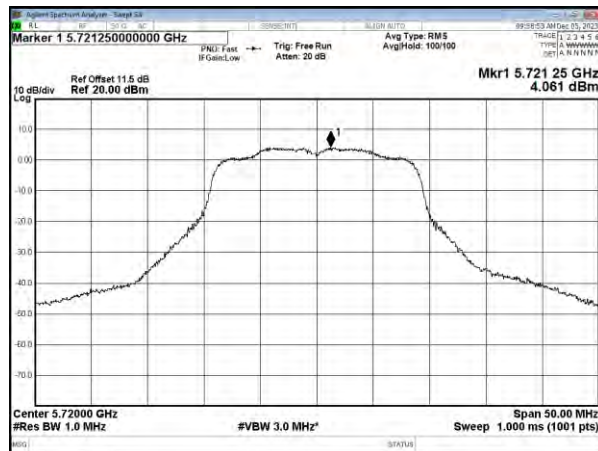




Band: Straddle Channel

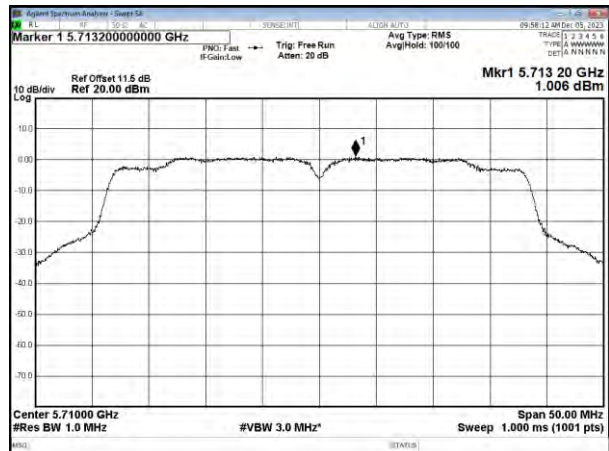
Modulation Standard: 802.11ac VHT20

CH144



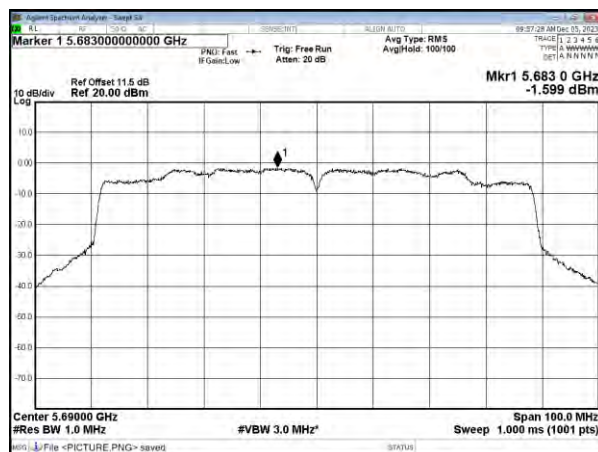
Modulation Standard: 802.11ac VHT40

CH142



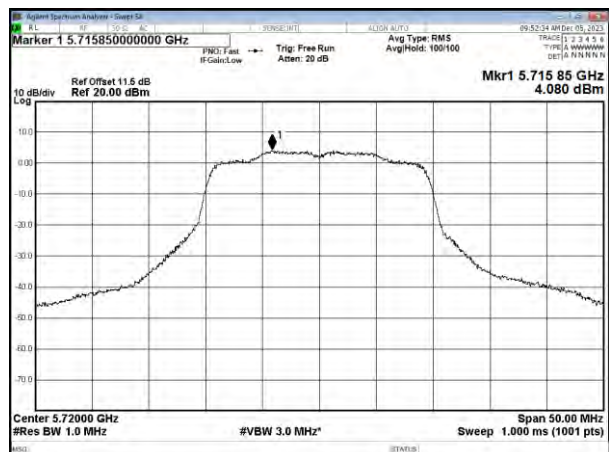
Modulation Standard: 802.11ac VHT80

CH138



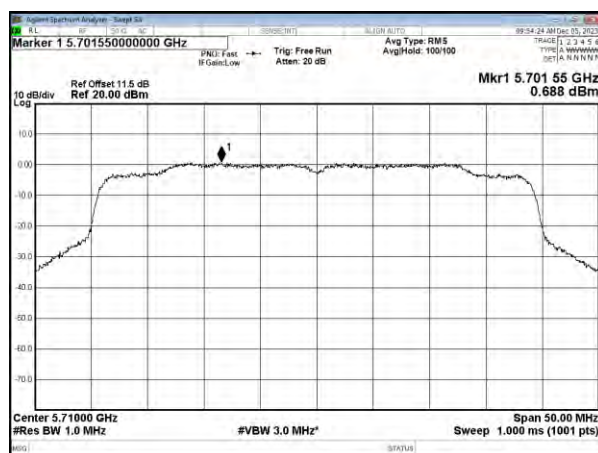
Modulation Standard: 802.11 ax HE20

CH144



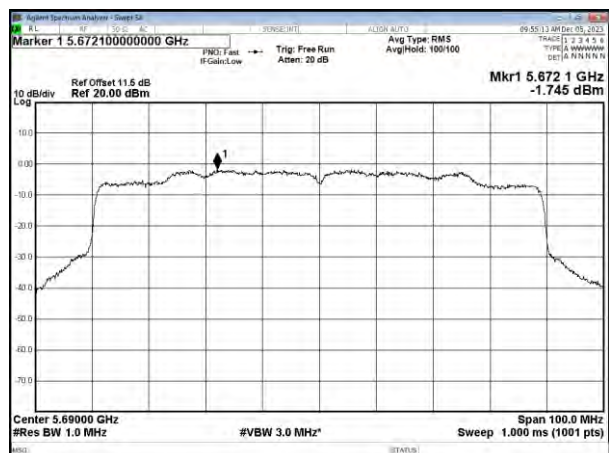
Modulation Standard: 802.11 ax HE40

CH142



Modulation Standard: 802.11 ax HE80

CH138



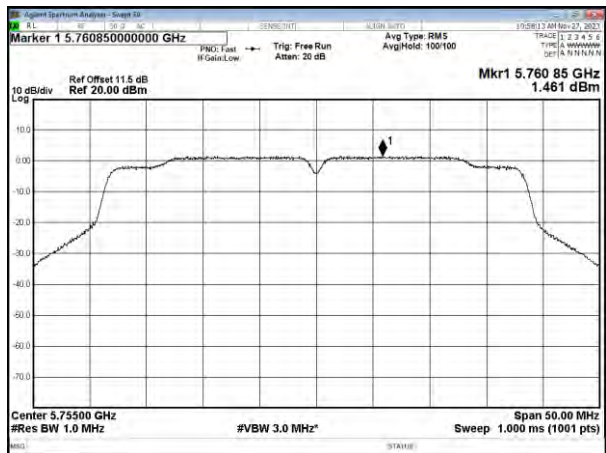


UNII-3

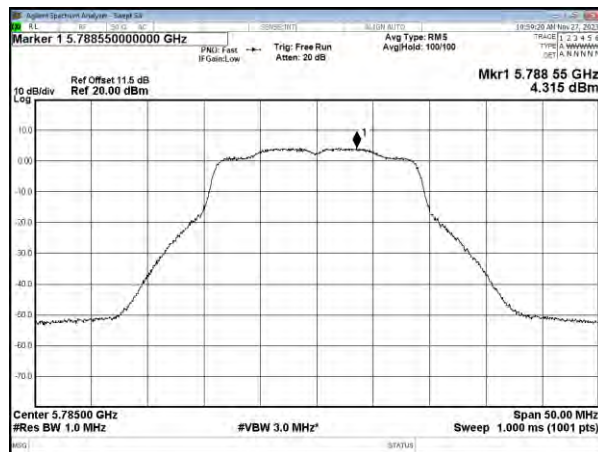
Modulation Type: 802.11ac, VHT20
CH149



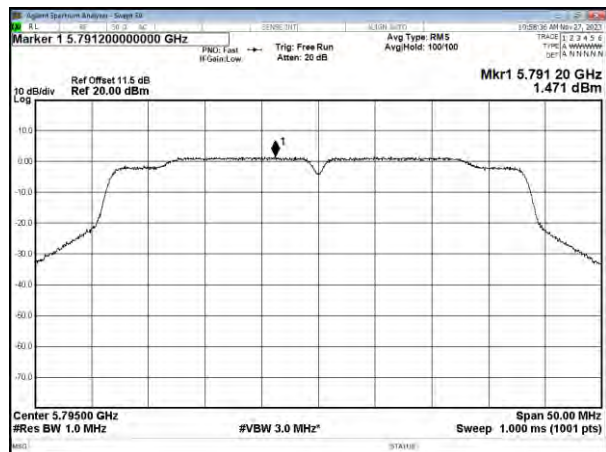
Modulation Type: 802.11ac, VHT40
CH151



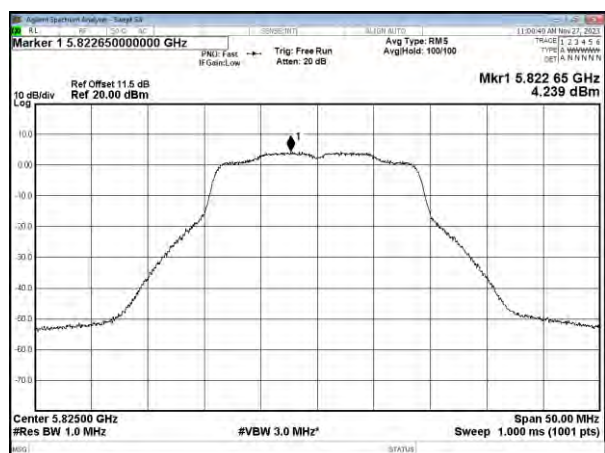
CH157



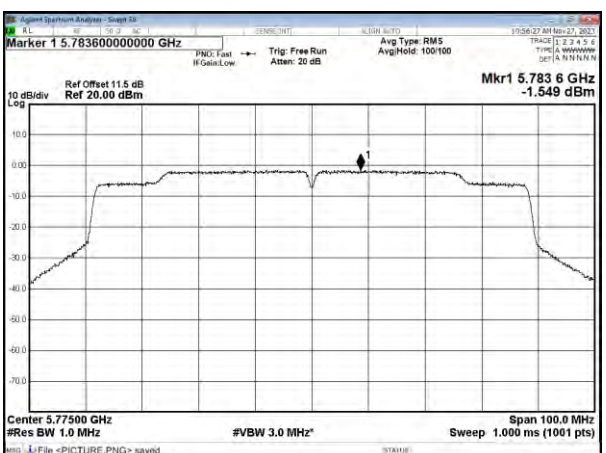
CH159



CH165



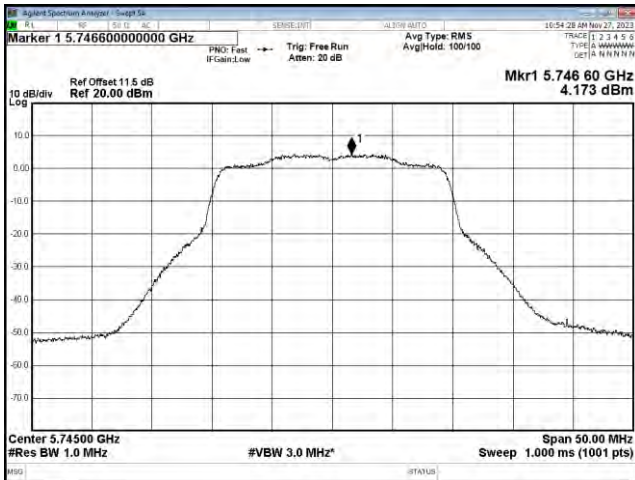
Modulation Type: 802.11ac, VHT80
CH155



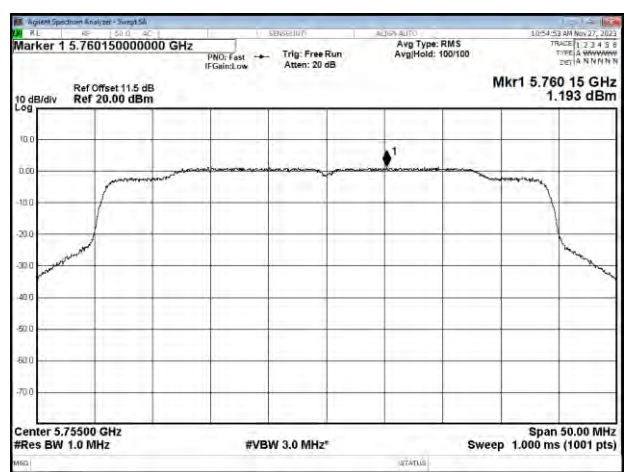


UNII-3

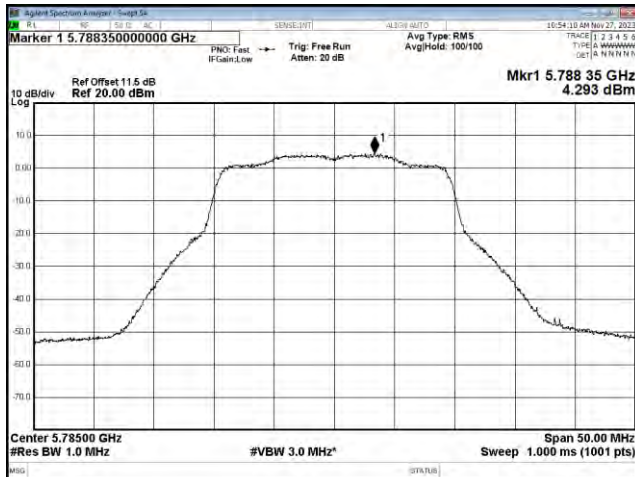
Modulation Type: 802.11ax HE20
CH149



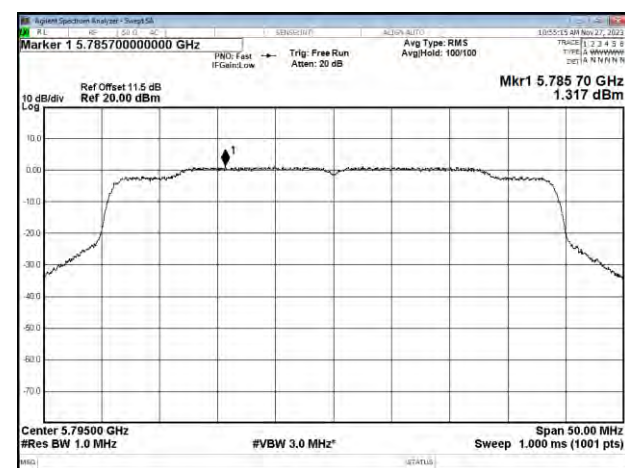
Modulation Type: 802.11 ax HE40
CH151



CH157

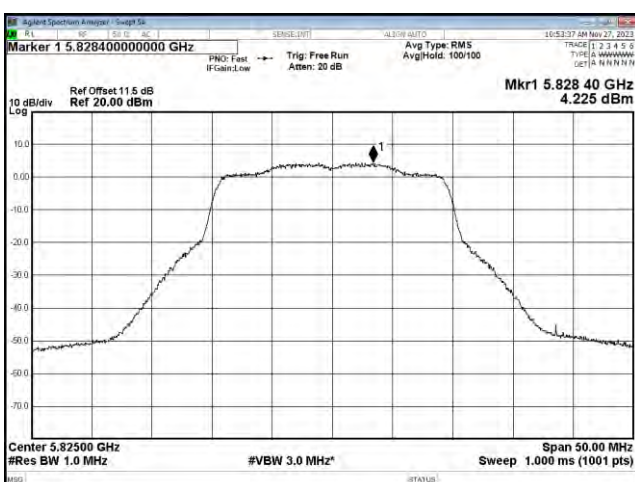


CH159

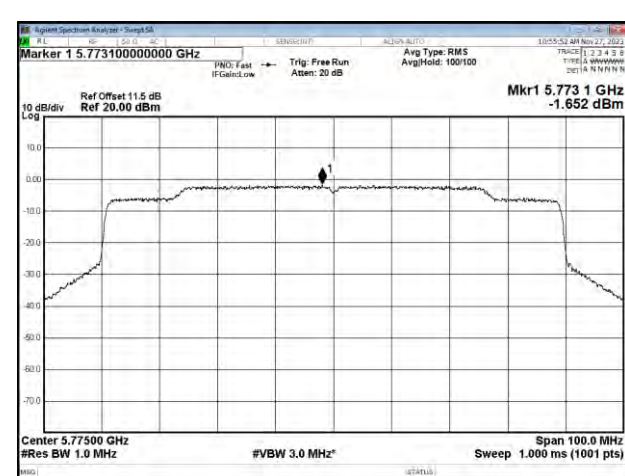


Modulation Type: 802.11ax HE80

CH165



CH155

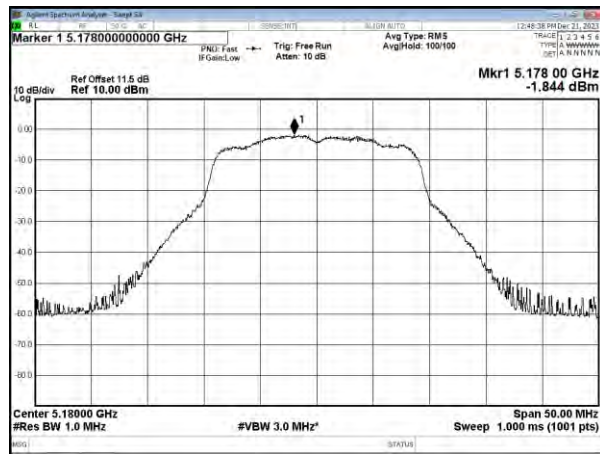




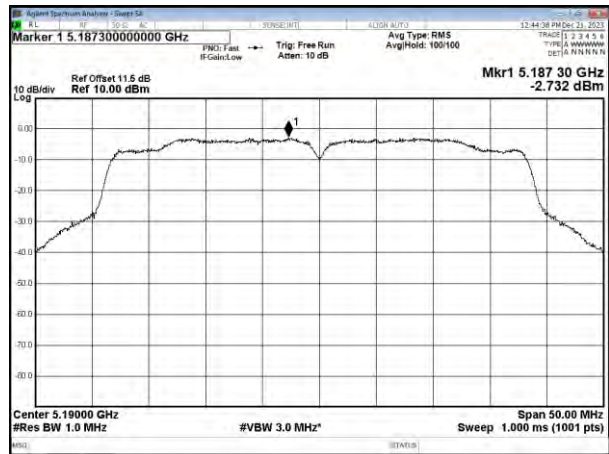
MIMO (ANT B)

UNII-1

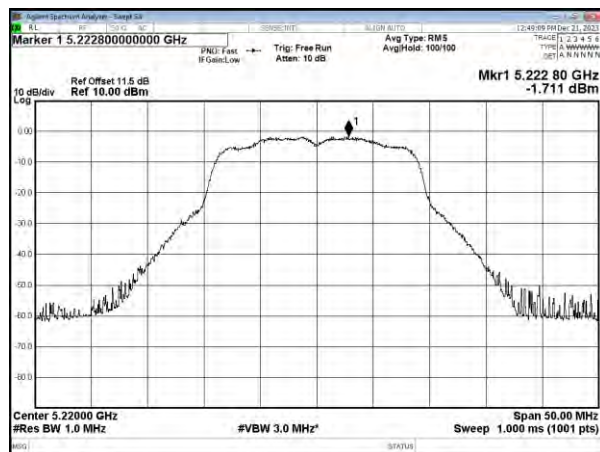
Modulation Standard: 802.11ac VHT20
CH36



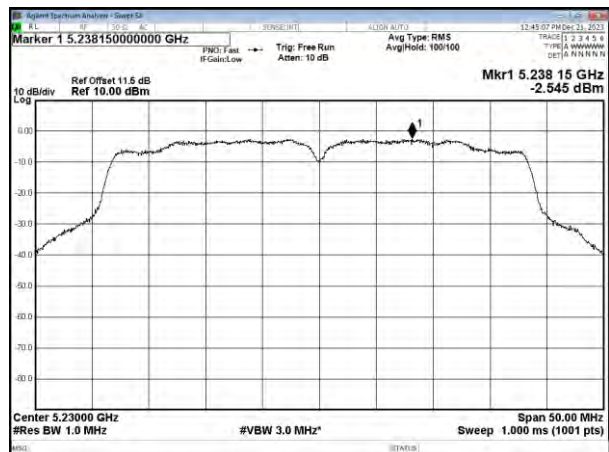
Modulation Standard: 802.11ac VHT40
CH38



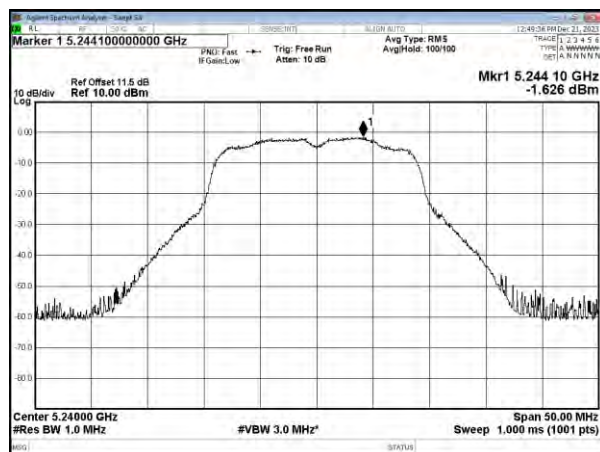
CH44



CH46

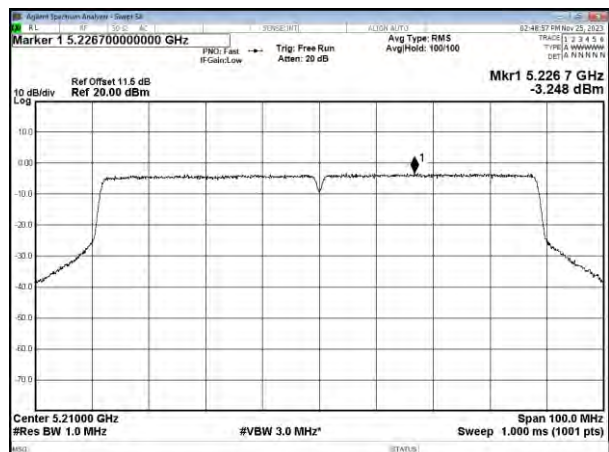


CH48



Modulation Standard: 802.11ac VHT80

CH42

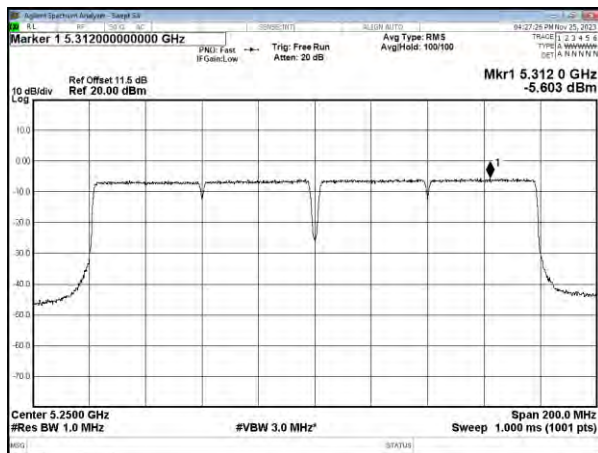




UNII-1

Modulation Standard: 802.11ac VHT160

CH50

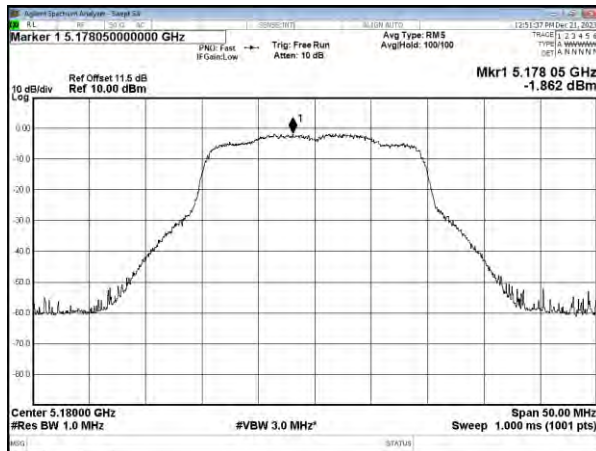




UNII-1

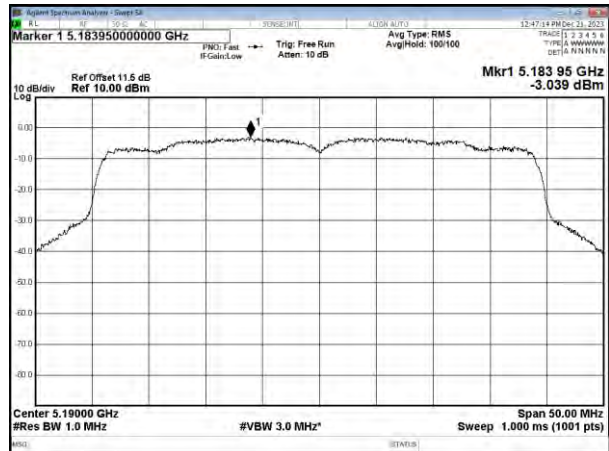
Modulation Standard: 802.11 ax HE20

CH36

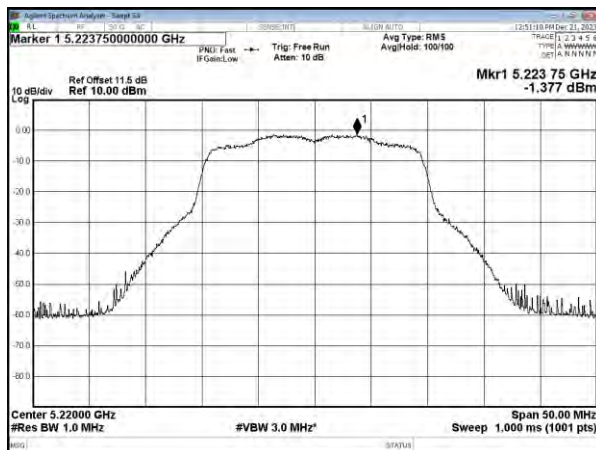


Modulation Standard: 802.11 ax HE40

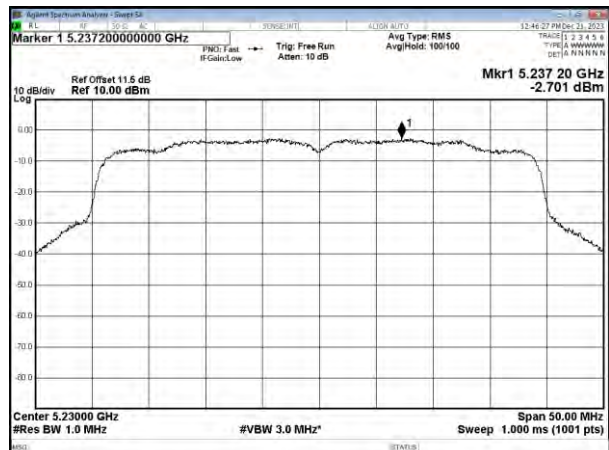
CH38



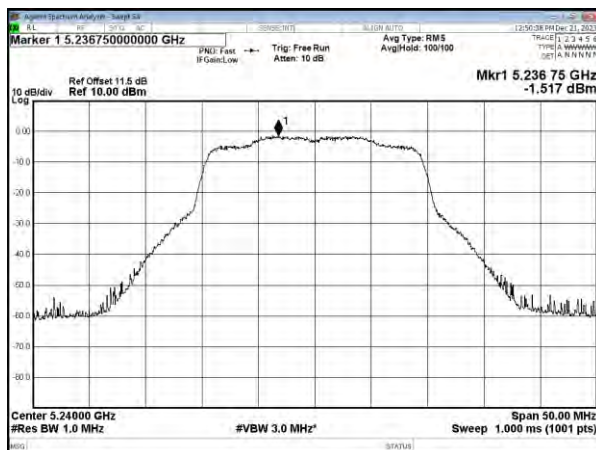
CH44



CH46

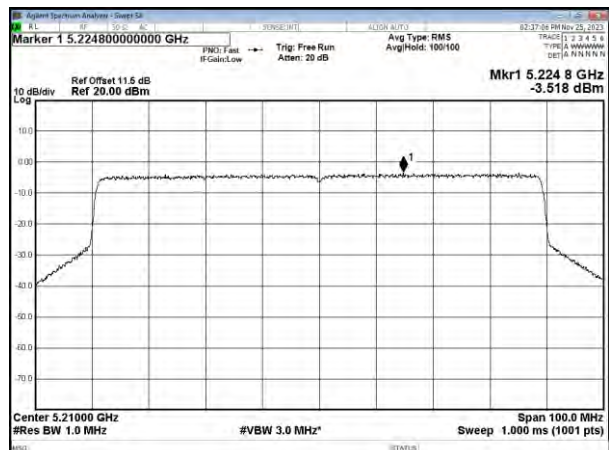


CH48



Modulation Standard: 802.11 ax HE80

CH42

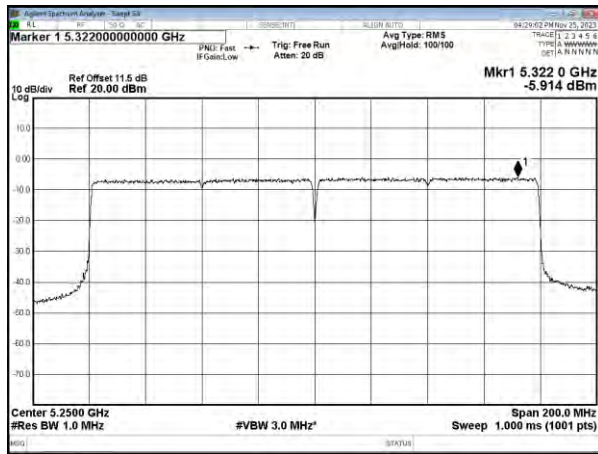




UNII-1

Modulation Standard: 802.11 ax HE160

CH50

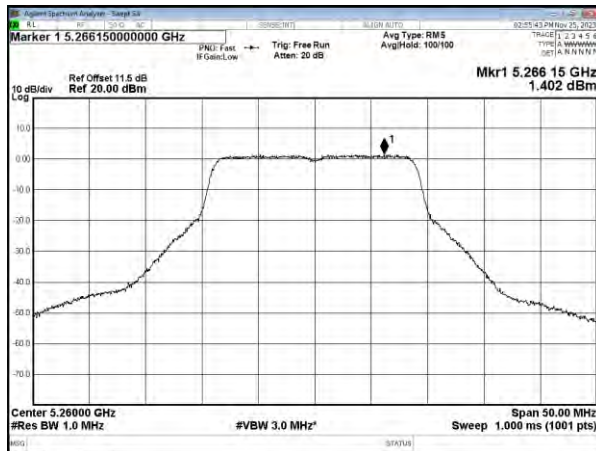




UNII-2A

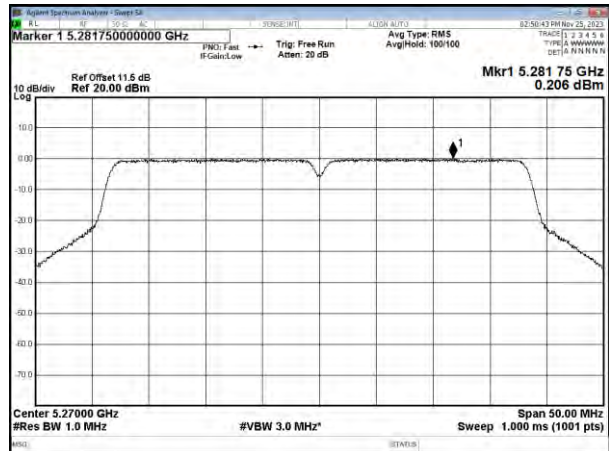
Modulation Standard: 802.11ac VHT20

CH52

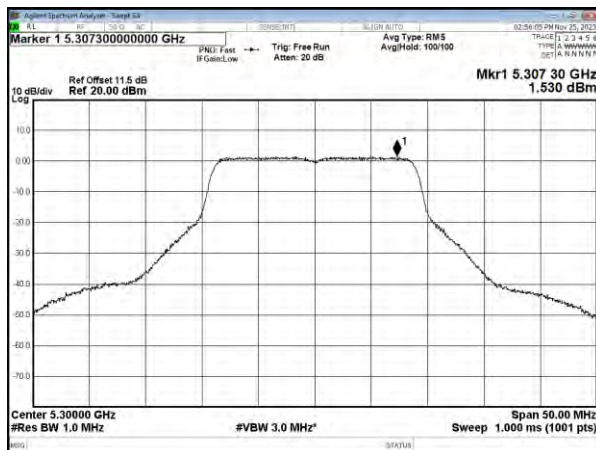


Modulation Standard: 802.11ac VHT40

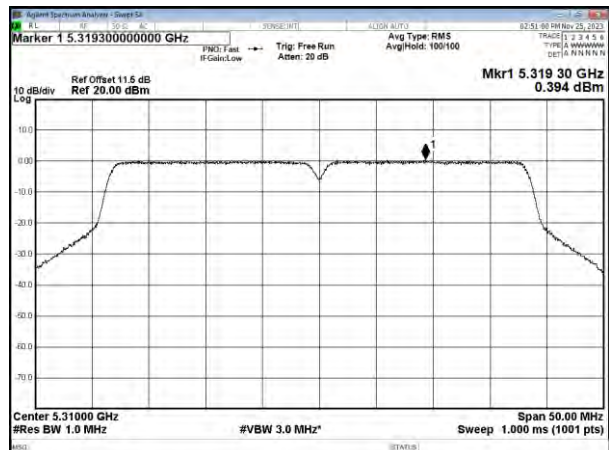
CH54



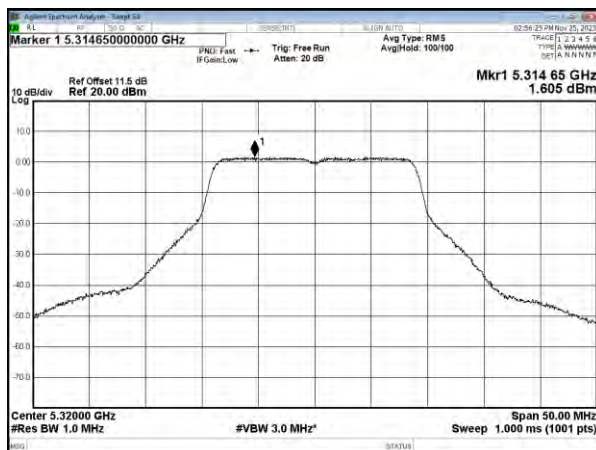
CH60



CH62

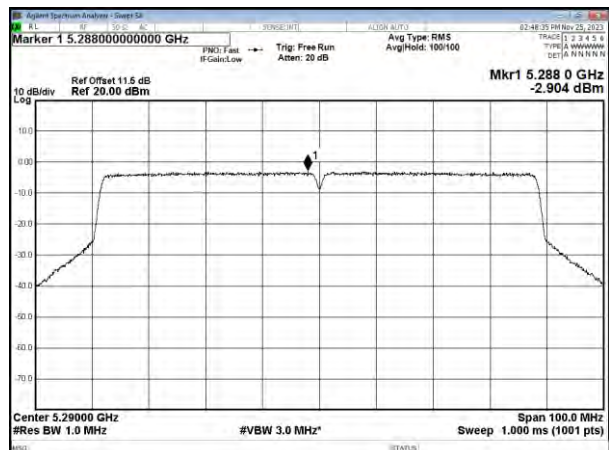


CH64



Modulation Standard: 802.11ac VHT80

CH58

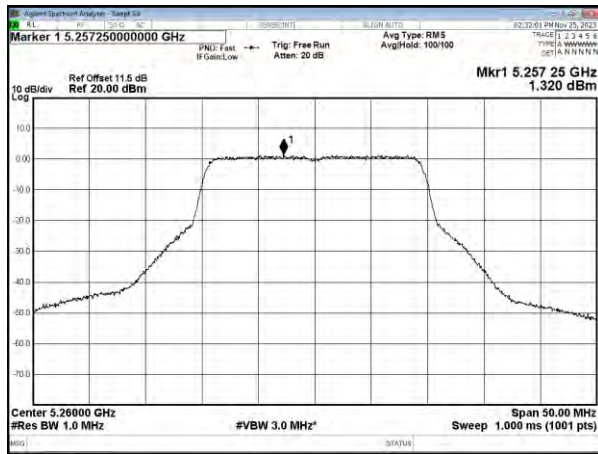




UNII-2A

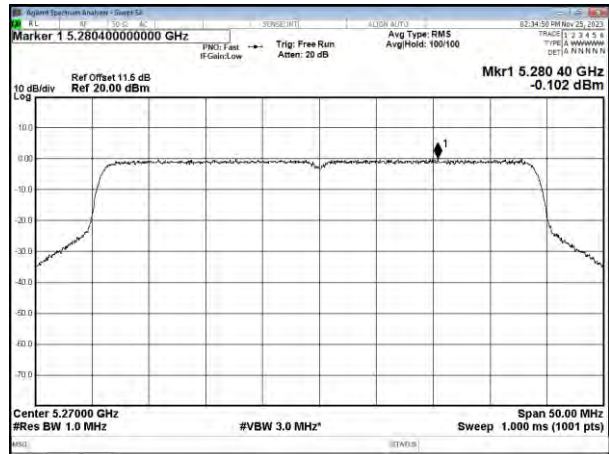
Modulation Standard: 802.11 ax HE20

CH52

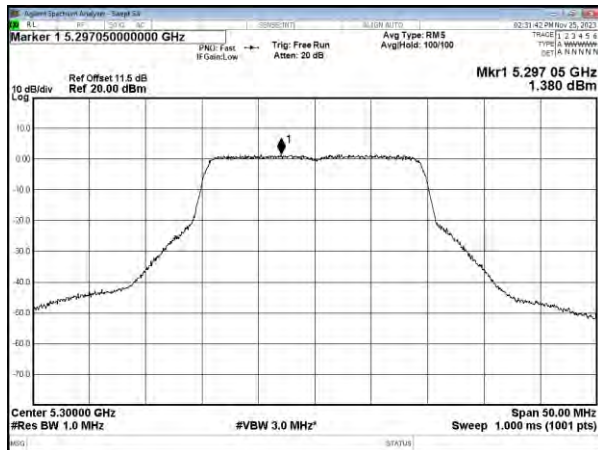


Modulation Standard: 802.11 ax HE40

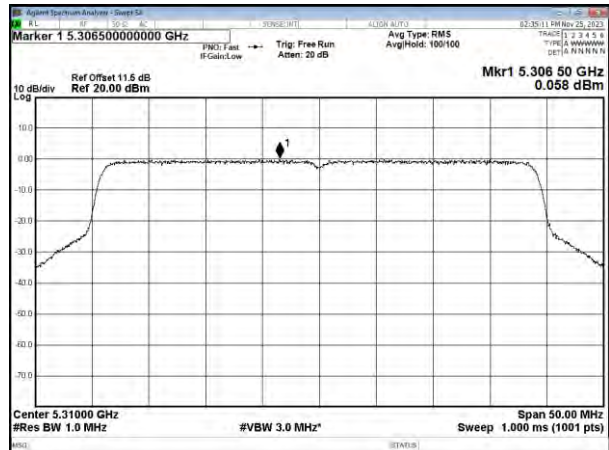
CH54



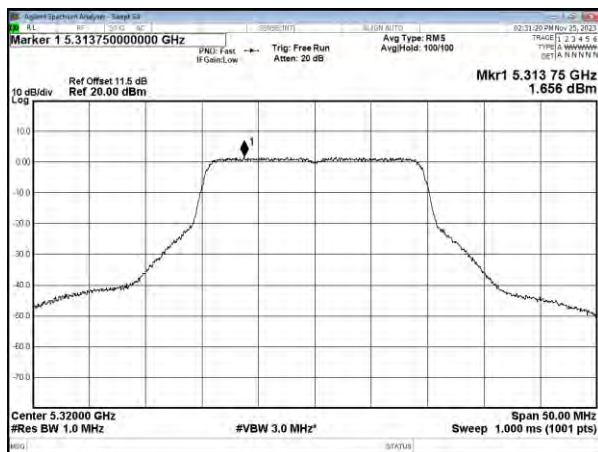
CH60



CH62

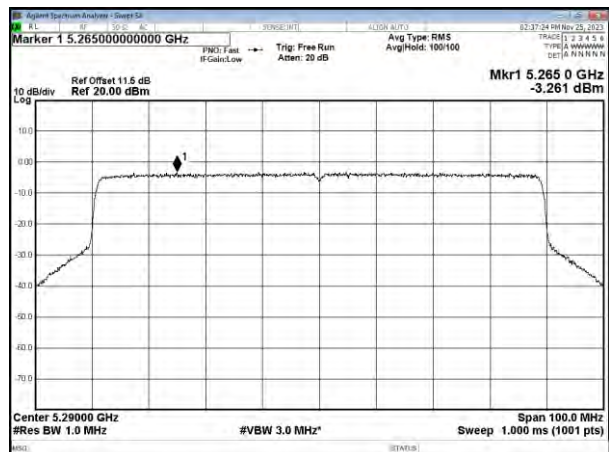


CH64



Modulation Standard: 802.11 ax HE80

CH58





UNII-2C

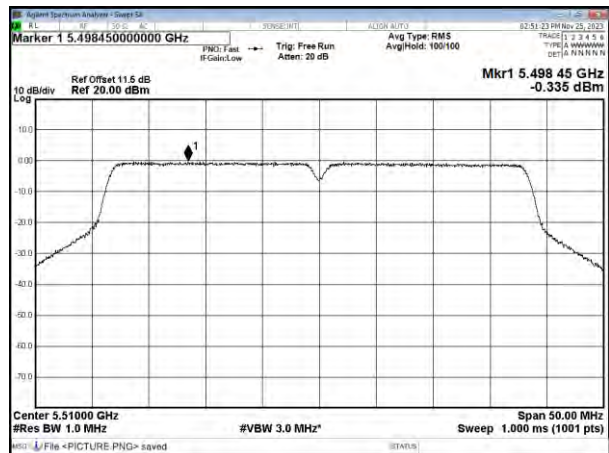
Modulation Standard: 802.11ac VHT20

CH100

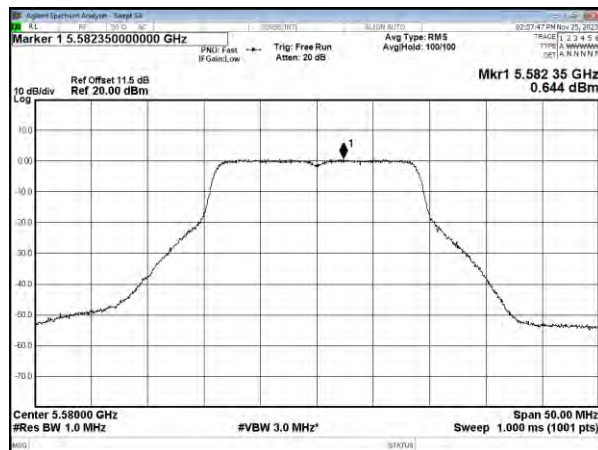


Modulation Standard: 802.11ac VHT40

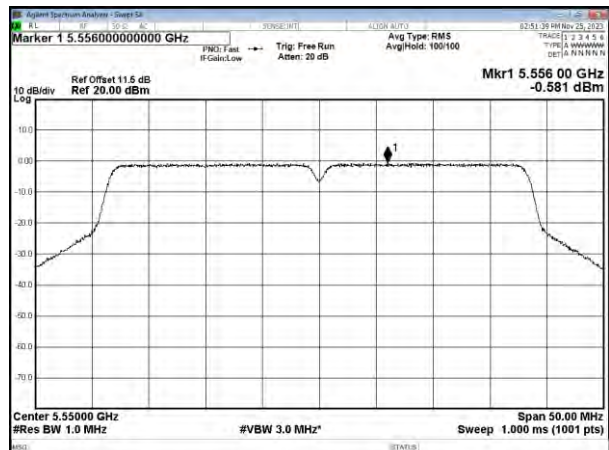
CH102



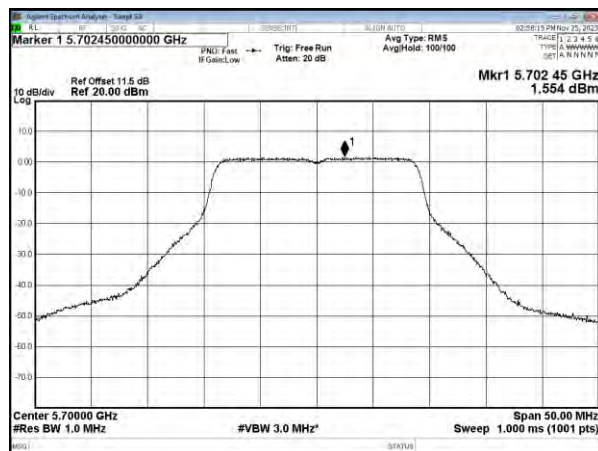
CH116



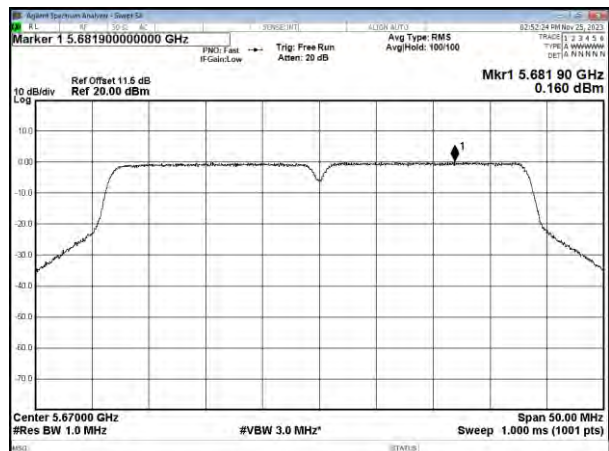
CH110



CH140



CH134

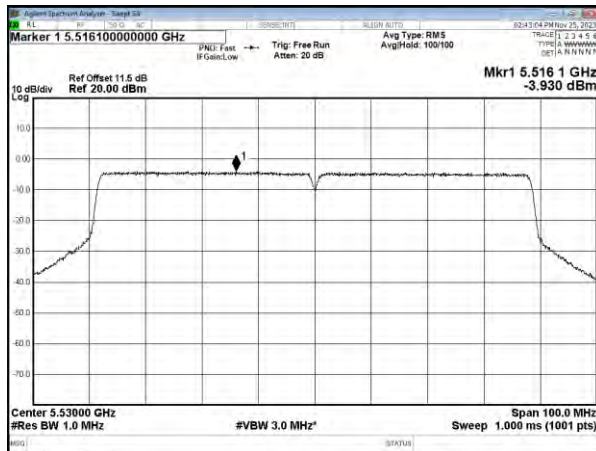




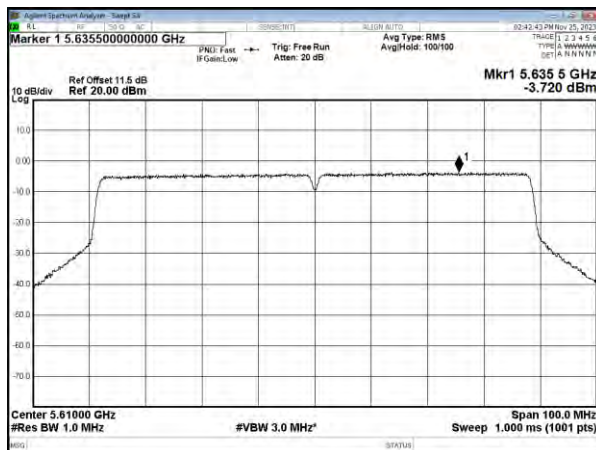
UNII-2C

Modulation Standard: 802.11ac VHT80

CH106

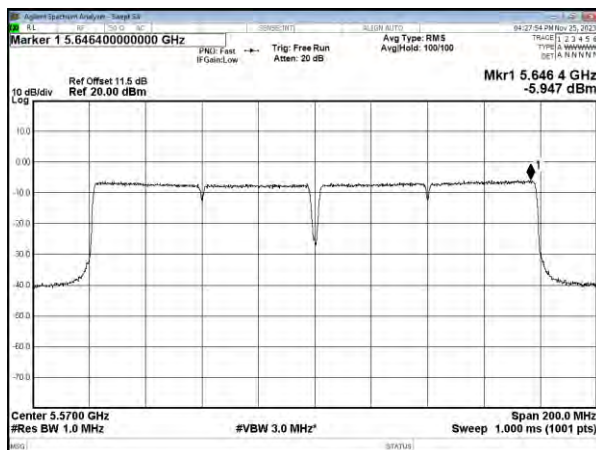


CH122



Modulation Standard: 802.11ac VHT160

CH114

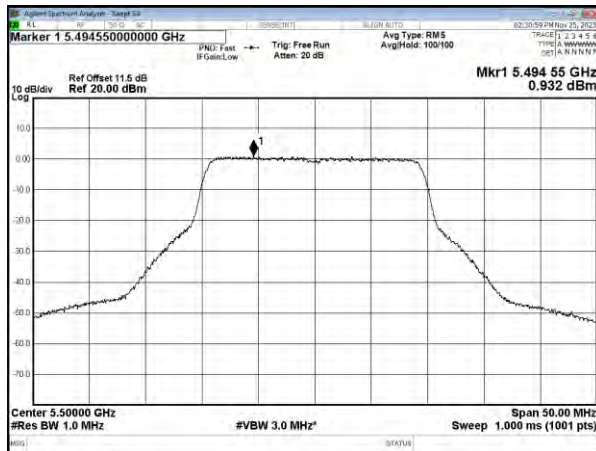




UNII-2C

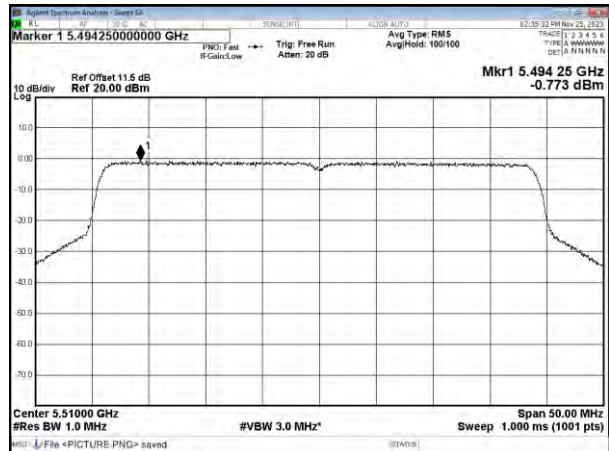
Modulation Standard: 802.11 ax HE20

CH100

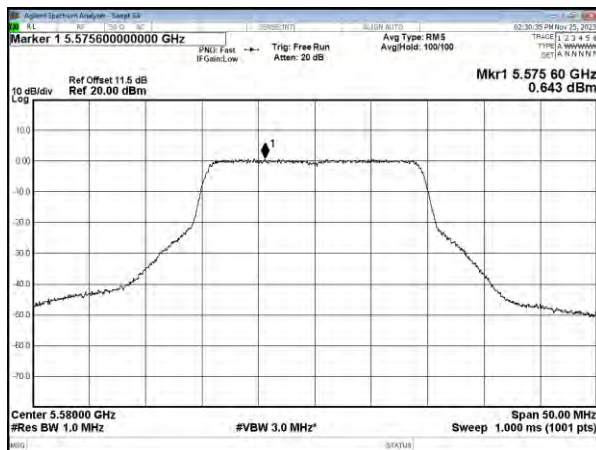


Modulation Standard: 802.11 ax HE40

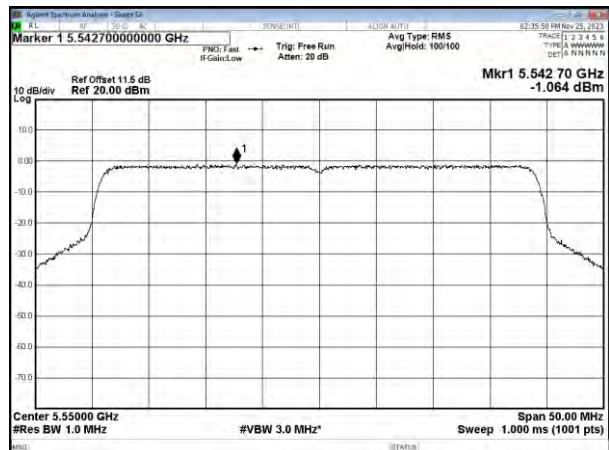
CH102



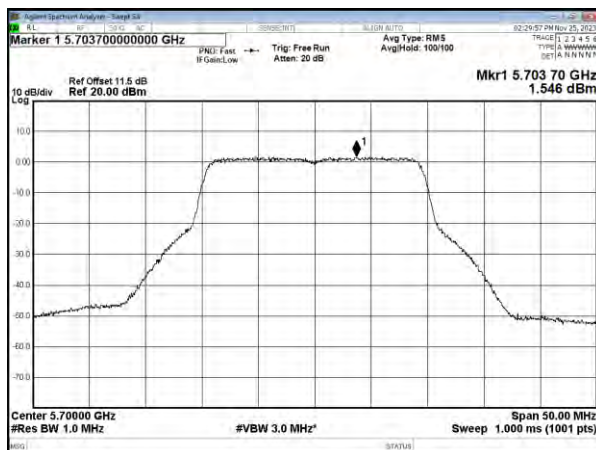
CH116



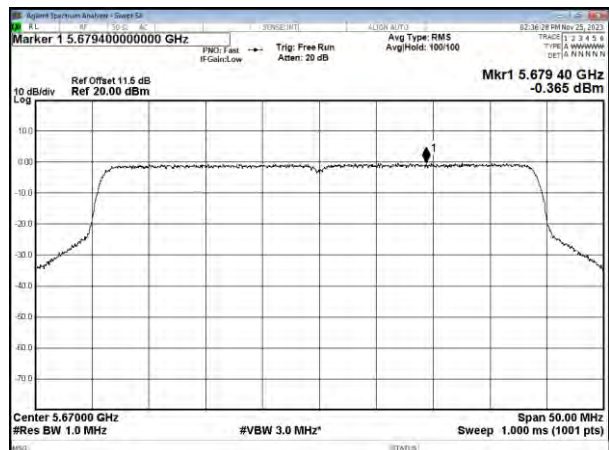
CH110



CH140



CH134

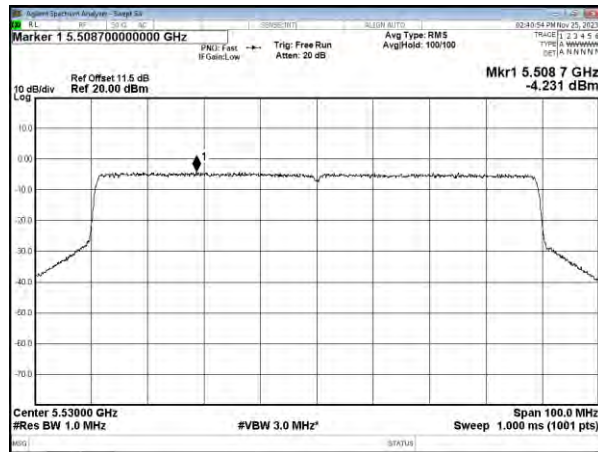




UNII-2C

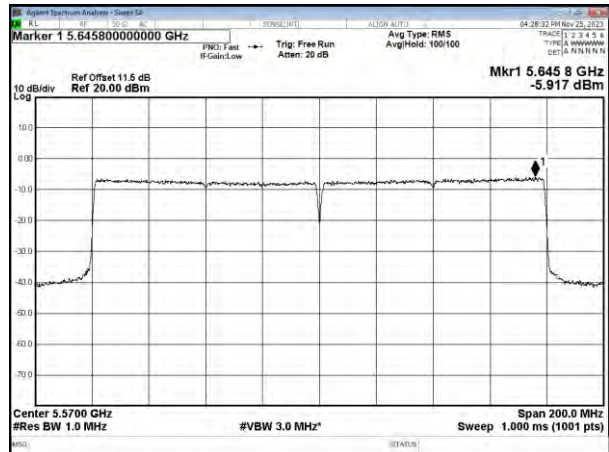
Modulation Standard: 802.11 ax HE80

CH106

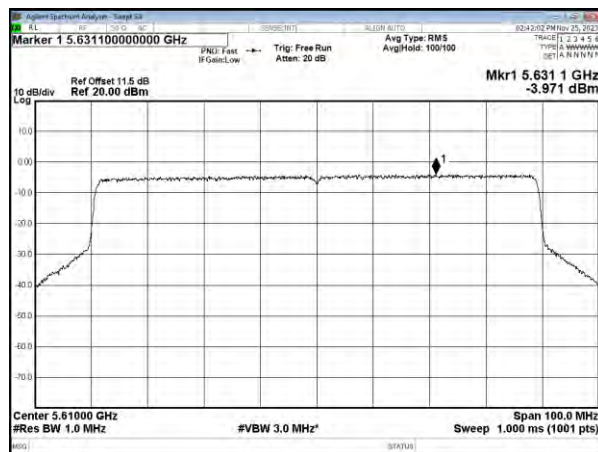


Modulation Standard: 802.11ax HE160

CH114



CH122

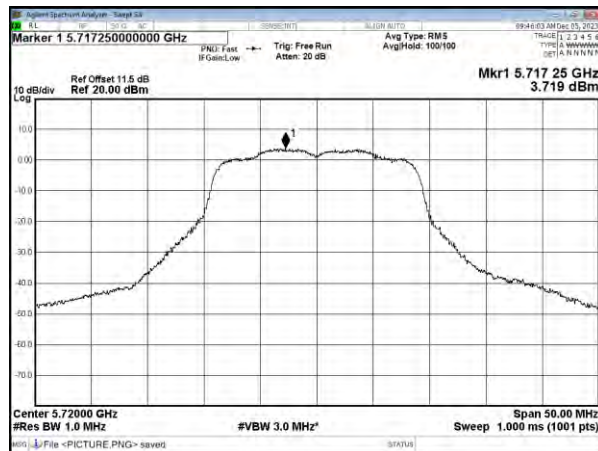




Band: Straddle Channel

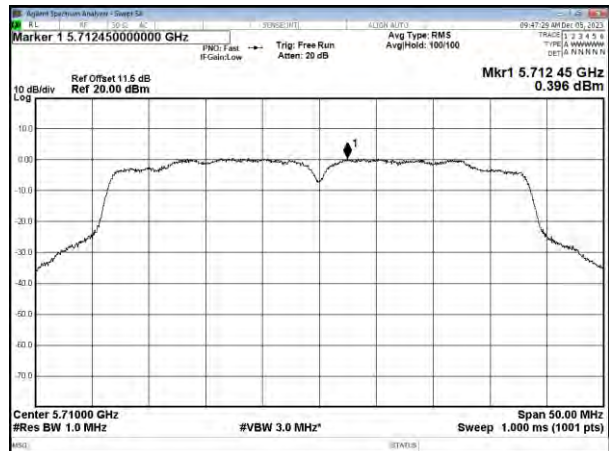
Modulation Standard: 802.11ac VHT20

CH144



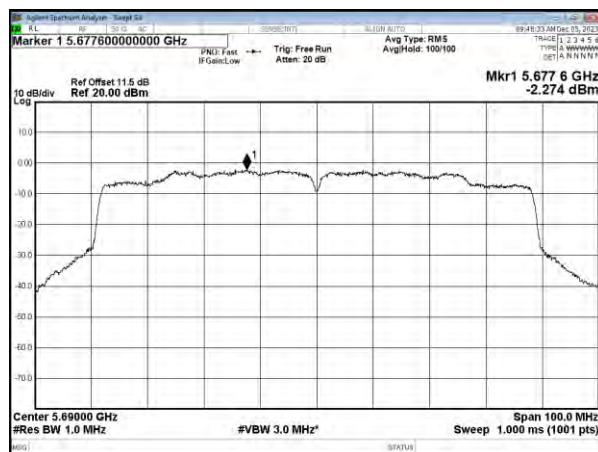
Modulation Standard: 802.11ac VHT40

CH142



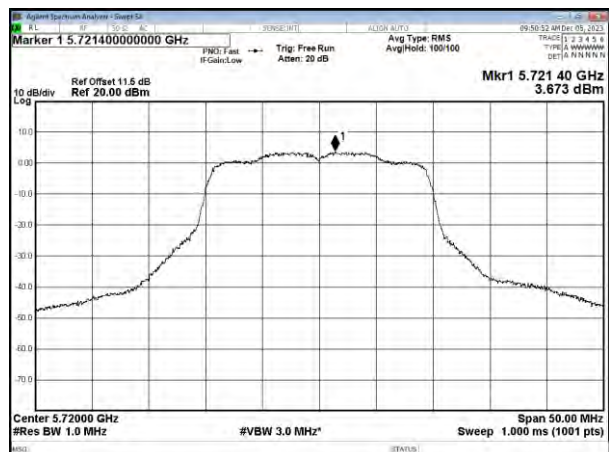
Modulation Standard: 802.11ac VHT80

CH138



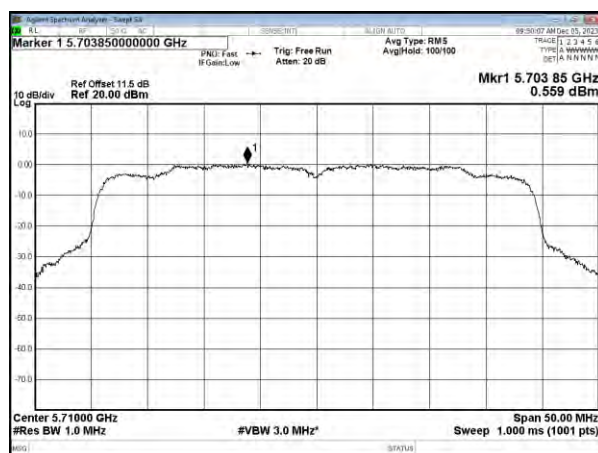
Modulation Standard: 802.11 ax HE20

CH144



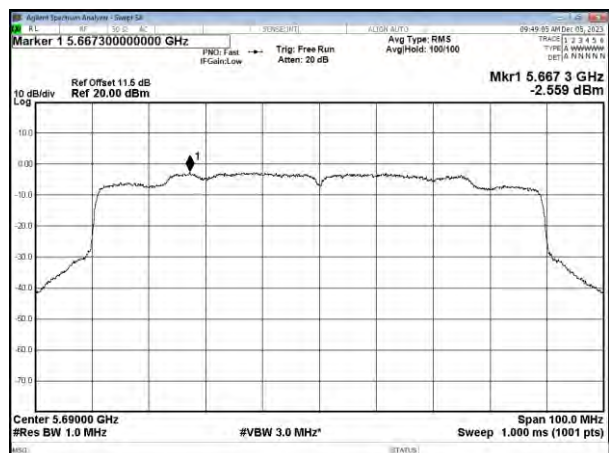
Modulation Standard: 802.11 ax HE40

CH142



Modulation Standard: 802.11 ax HE80

CH138



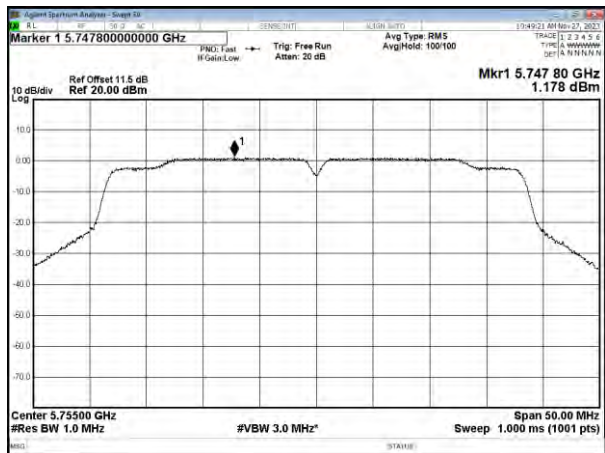


UNII-3

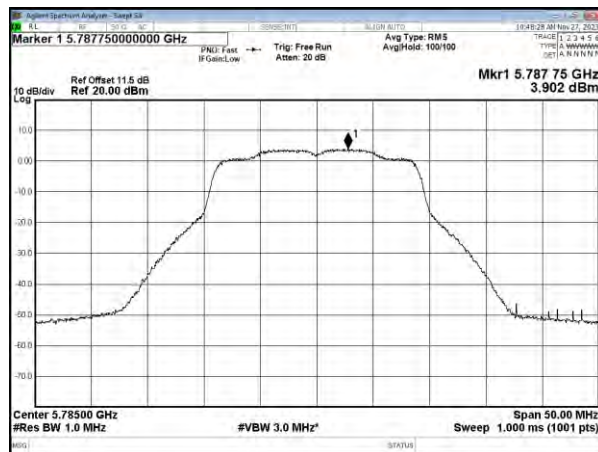
Modulation Type: 802.11ac, VHT20
CH149



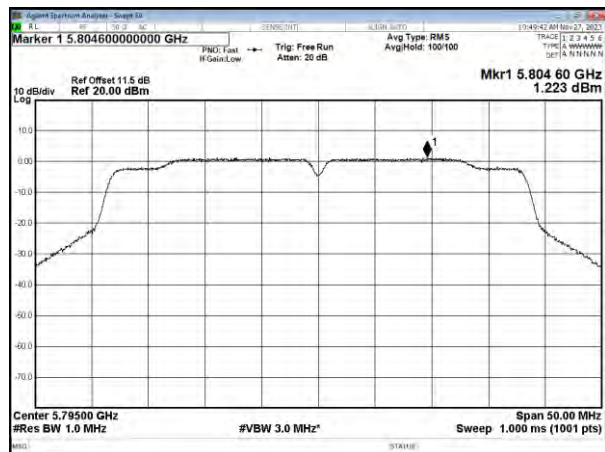
Modulation Type: 802.11ac, VHT40
CH151



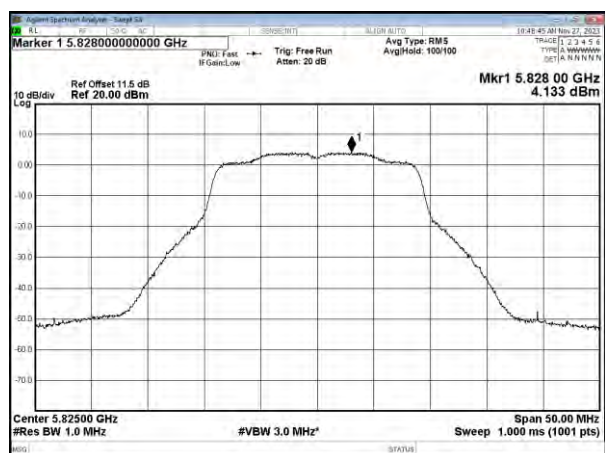
CH157



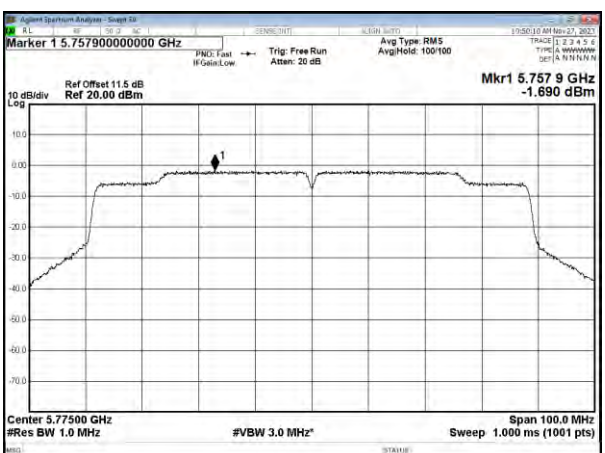
CH159



CH165

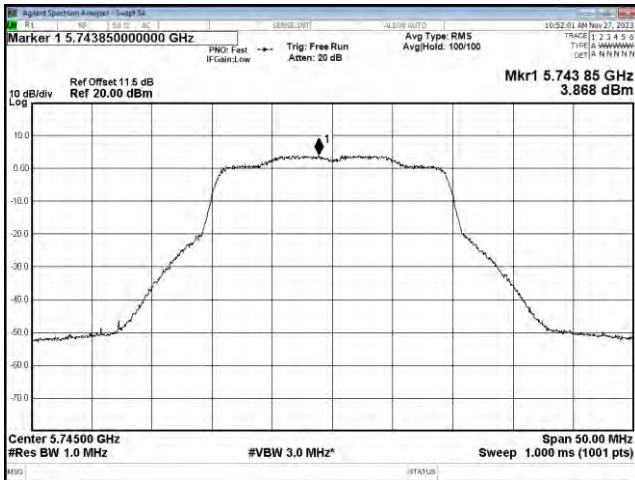
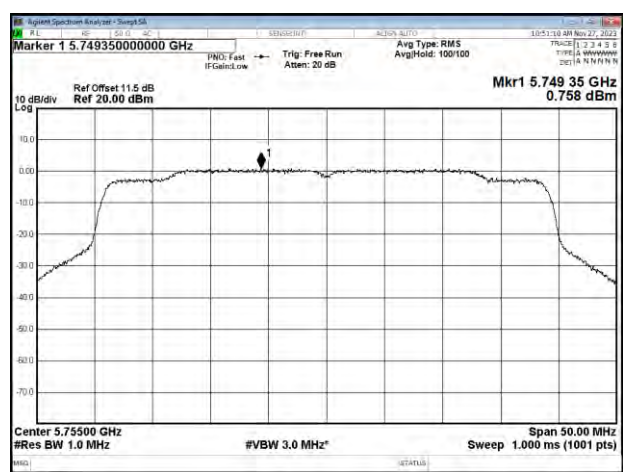


Modulation Type: 802.11ac, VHT80
CH155

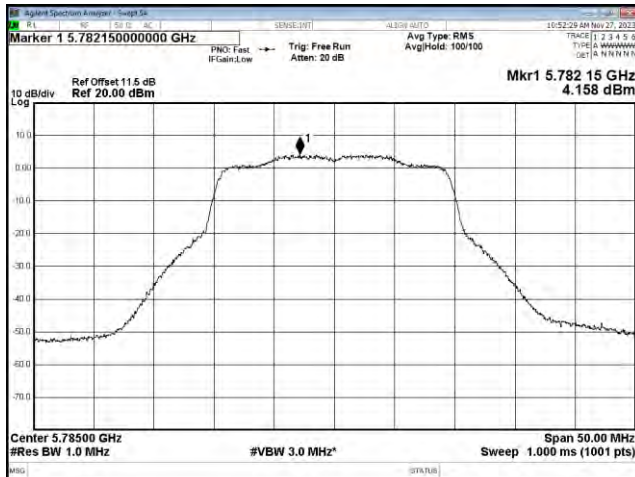




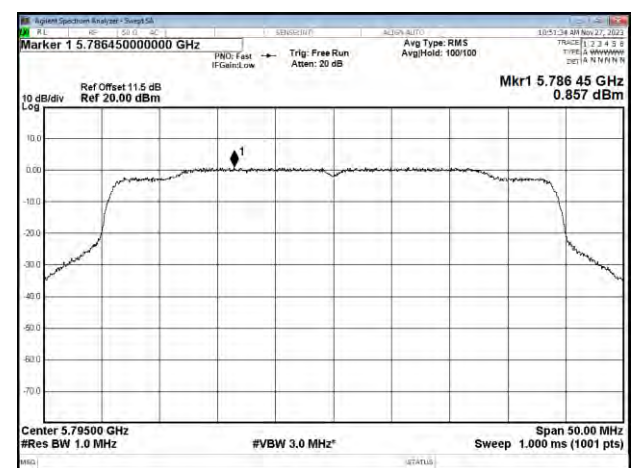
UNII-3

Modulation Type: 802.11ax HE20
CH149Modulation Type: 802.11 ax HE40
CH151

CH157

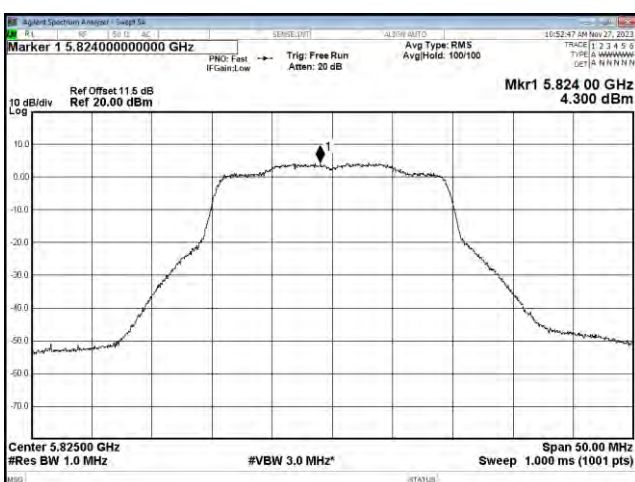


CH159

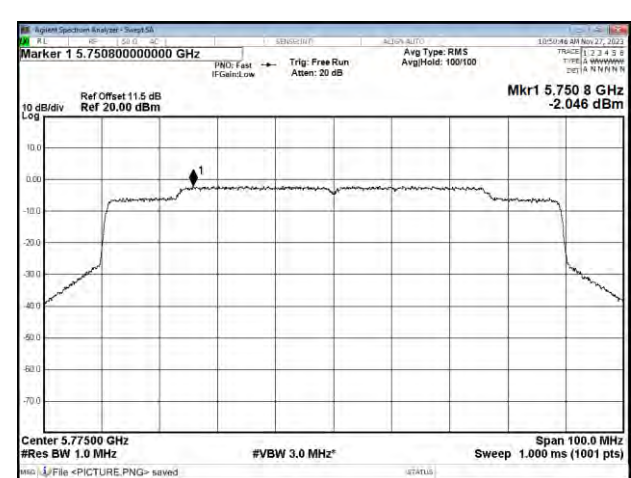


Modulation Type: 802.11ax HE80

CH165



CH155



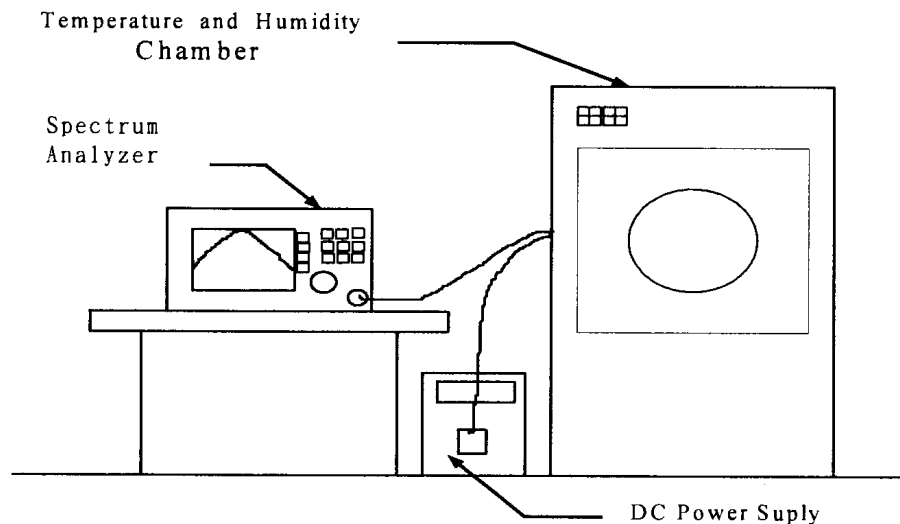


12. Frequency Stability

12.1. Test Procedure

1. The EUT was placed inside the Temperature and Humidity chamber.
2. The transmitter output was connected to spectrum analyzer.
3. Turn the EUT on and couple its output to a spectrum analyzer.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
6. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
7. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

12.2. Test Setup Layout



**12.3. Test Result and Data**

Operating frequency: 5180 MHz							
Temp	Power supply	2 minute		5 minute		10 minute	
(°C)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
35	132	5179.9935	-0.000125	5179.9981	-0.000037	5179.9946	-0.000104
	120	5179.9914	-0.000166	5179.9982	-0.000035	5179.9969	-0.000060
	108	5179.9937	-0.000122	5179.9968	-0.000062	5179.9927	-0.000141
20	132	5179.9973	-0.000052	5179.9952	-0.000093	5179.9968	-0.000062
	120	5179.9972	-0.000054	5179.9937	-0.000122	5179.9943	-0.000110
	108	5179.9959	-0.000079	5179.9969	-0.000060	5179.9965	-0.000068
10	132	5179.9948	-0.000100	5179.9965	-0.000068	5179.9934	-0.000127
	120	5179.9917	-0.000160	5179.9937	-0.000122	5179.9954	-0.000089
	108	5179.9953	-0.000091	5179.9993	-0.000014	5179.9971	-0.000056
0	132	5179.9986	-0.000027	5179.9948	-0.000100	5179.9945	-0.000106
	120	5179.9993	-0.000014	5179.9982	-0.000035	5179.9958	-0.000081
	108	5179.9926	-0.000143	5179.9956	-0.000085	5179.9936	-0.000124

Limit:

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

-----End of the report -----