9. 26dB Bandwidth & 99% Occupied Bandwidth

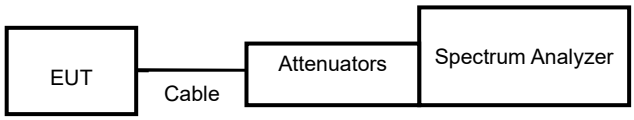
9.1. Test Limit

None; for reporting purposes only.

9.2. Test Procedure

Reference to 789033 v02r01 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the VBW >= 3 x RBW, peak detector and max hold.

9.3. Test Setup Layout



9.4. Test Result and Data (26dB Bandwidth)

SISO

In the 5.2G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11a	36	5180	25.75	24.98
	44	5220	24.62	25.41
	48	5240	19.92	20.01

In the 5.3G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11a	52	5260	25.14	24.88
	60	5300	25.39	24.74
	64	5320	24.94	26.46

In the 5.5G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11a	100	5500	26.43	25.2
	116	5580	24.55	25.85
	140	5700	25.25	24.79

MIMO
In the 5.2G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11ac VHT20	36	5180	27.85	31.1
	44	5220	26.12	24.87
	48	5240	20.01	20.16
802.11ac VHT40	38	5190	40.34	39.65
	46	5230	39.71	39.32
802.11ac VHT80	42	5210	79.89	79.42
802.11ax HE20	36	5180	22.02	21.91
	44	5220	21.86	21.83
	48	5240	19.94	19.94
802.11ax HE40	38	5190	39.6	39.43
	46	5230	39.53	43.05
802.11ax HE80	42	5210	79.59	80.07

In the 5.3G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11ac VHT20	52	5260	24.51	26.23
	60	5300	26.63	34.07
	64	5320	26.72	27.13
802.11ac VHT40	54	5270	40.34	39.56
	62	5310	39.93	39.34
802.11ac VHT80	58	5290	79.64	79.37
802.11ax HE20	52	5260	22.27	21.89
	60	5300	22.09	21.99
	64	5320	22.39	21.81
802.11ax HE40	54	5270	39.55	39.44
	62	5310	39.31	39.39
802.11ax HE80	58	5290	79.89	86.45

In the 5.5G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11ac VHT20	100	5500	24.88	26.52
	116	5580	24.77	25.27
	140	5700	26.06	25.63
802.11ac VHT40	102	5510	39.96	40.15
	118	5590	39.98	39.73
	134	5670	40.27	39.8
802.11ac VHT80	106	5530	79.8	79.39
	122	5610	79.58	79.71
802.11ax HE20	100	5500	21.99	22.53
	116	5580	22.44	21.58
	140	5700	21.09	21.98
802.11ax HE40	102	5510	39.56	39.38
	118	5590	39.64	39.55
	134	5670	39.45	39.37
802.11ax HE80	106	5530	80.12	80.03
	122	5610	79.83	79.99

9.5. Test Result and Data (99% Occupied Bandwidth)

SISO

In the 5.2G Band

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			ANT A	ANT B
802.11a	36	5180	17.07	16.96
	44	5220	16.96	16.92
	48	5240	16.50	16.50

In the 5.3G Band

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			ANT A	ANT B
802.11a	52	5260	17.15	16.97
	60	5300	17.07	16.94
	64	5320	17.00	17.08

In the 5.5G Band

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			ANT A	ANT B
802.11a	100	5500	17.06	17.00
	116	5580	16.95	17.03
	140	5700	16.98	16.92

MIMO
In the 5.2G Band

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			ANT A	ANT B
802.11ac VHT20	36	5180	18.24	18.18
	44	5220	18.14	17.96
	48	5240	17.61	17.62
802.11ac VHT40	38	5190	35.97	35.84
	46	5230	35.80	35.82
802.11ac VHT80	42	5210	75.13	75.17
802.11ax HE20	36	5180	19.14	19.06
	44	5220	19.04	19.04
	48	5240	18.85	18.85
802.11ax HE40	38	5190	37.54	37.38
	46	5230	37.56	37.64
802.11ax HE80	42	5210	76.86	76.98

In the 5.3G Band

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			ANT A	ANT B
802.11ac VHT20	52	5260	18.06	18.07
	60	5300	18.24	18.22
	64	5320	18.12	18.07
802.11ac VHT40	54	5270	35.95	35.80
	62	5310	35.88	35.75
802.11ac VHT80	58	5290	75.08	75.12
802.11ax HE20	52	5260	19.03	19.03
	60	5300	19.12	19.05
	64	5320	19.13	19.05
802.11ax HE40	54	5270	37.52	37.42
	62	5310	37.47	37.54
802.11ax HE80	58	5290	76.74	76.60

In the 5.5G Band

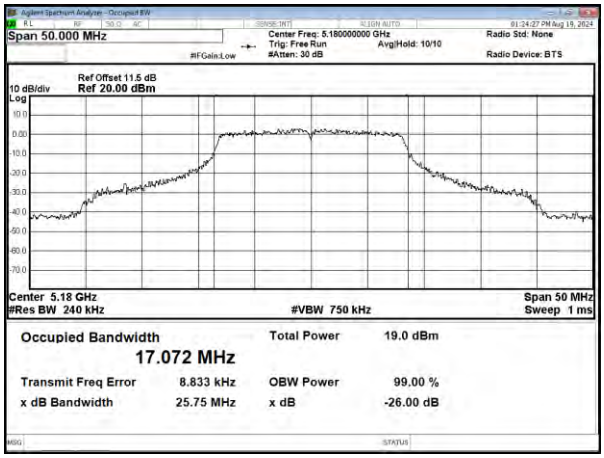
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			ANT A	ANT B
802.11ac VHT20	100	5500	18.19	17.97
	116	5580	18.14	17.99
	140	5700	18.18	18.06
802.11ac VHT40	102	5510	35.96	35.80
	118	5590	35.91	35.76
	134	5670	35.91	35.88
802.11ac VHT80	106	5530	75.08	75.19
	122	5610	75.10	75.14
802.11ax HE20	100	5500	19.05	19.07
	116	5580	19.05	19.02
	140	5700	19.07	19.04
802.11ax HE40	102	5510	37.54	37.49
	118	5590	37.54	37.36
	134	5670	37.47	37.53
802.11ax HE80	106	5530	76.69	76.62
	122	5610	76.46	76.52

26dB Bandwidth &99% Occupied Bandwidth, UNII-1

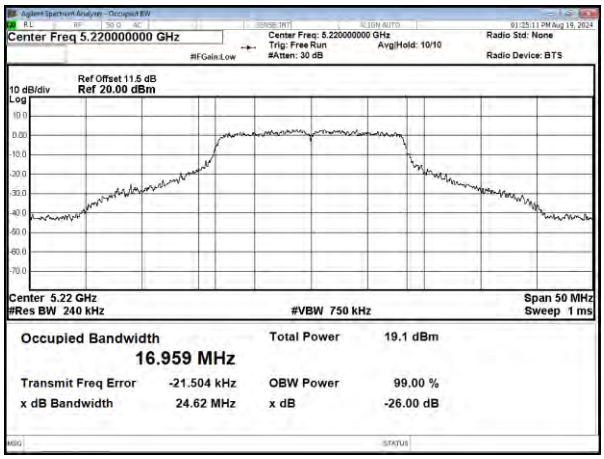
SISO-ANT A

Modulation Standard: 802.11a

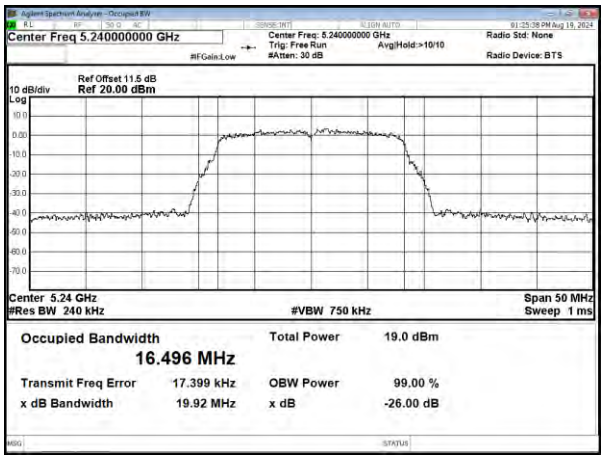
CH36



CH44



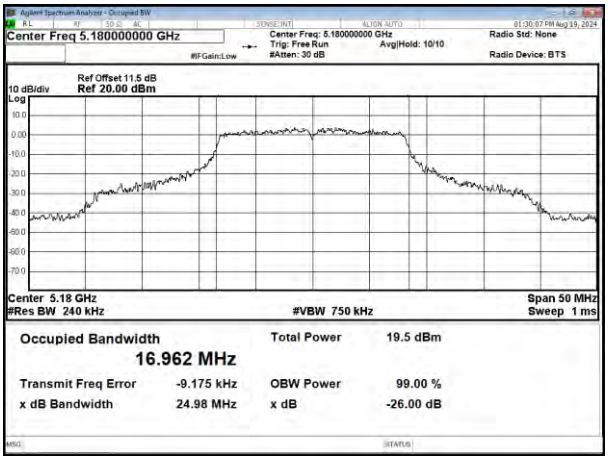
CH48



SISO-ANT B

Modulation Standard: 802.11a

CH36



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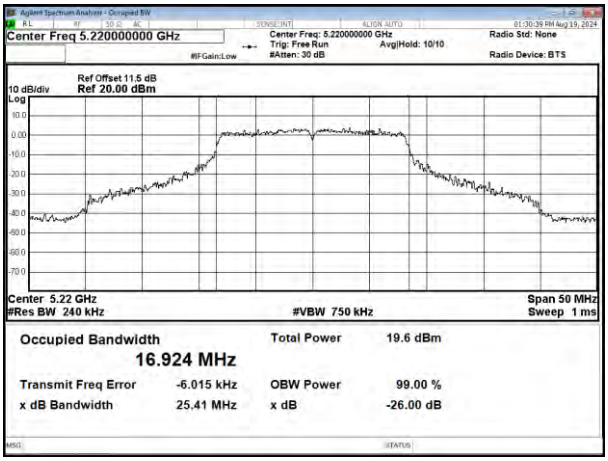

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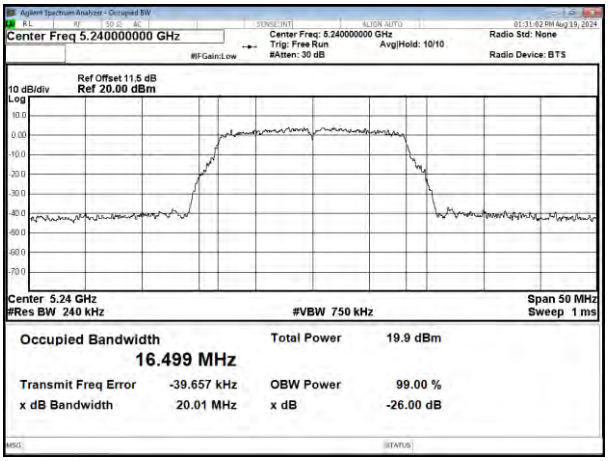
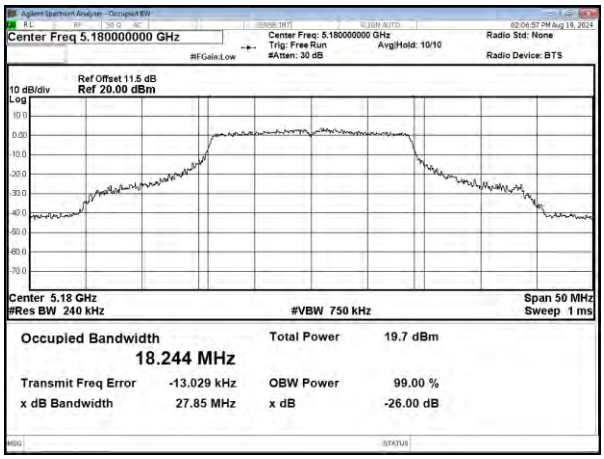
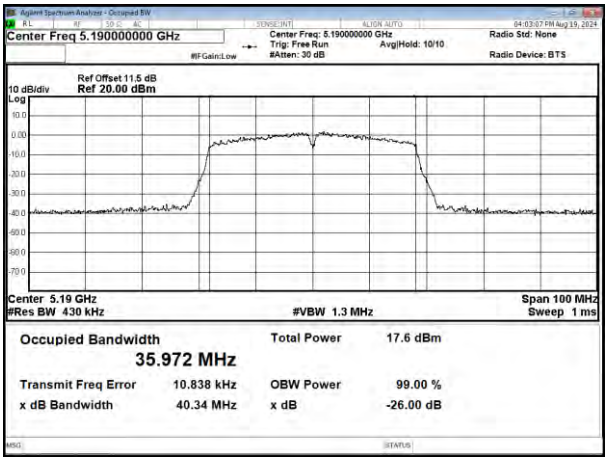


MIMO-ANT A

Modulation Standard: 802.11ac VHT20
CH36



Modulation Standard: 802.11ac VHT40
CH38



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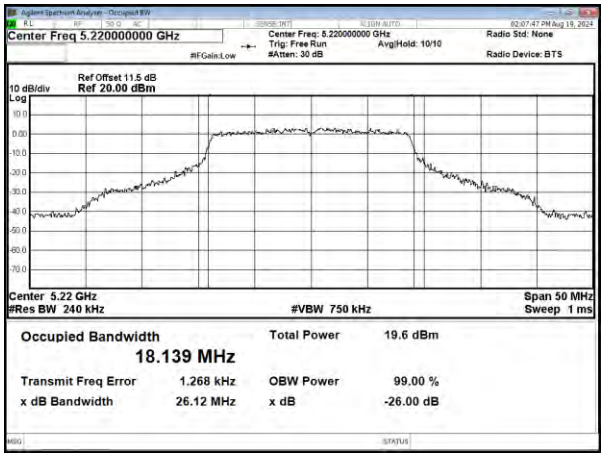
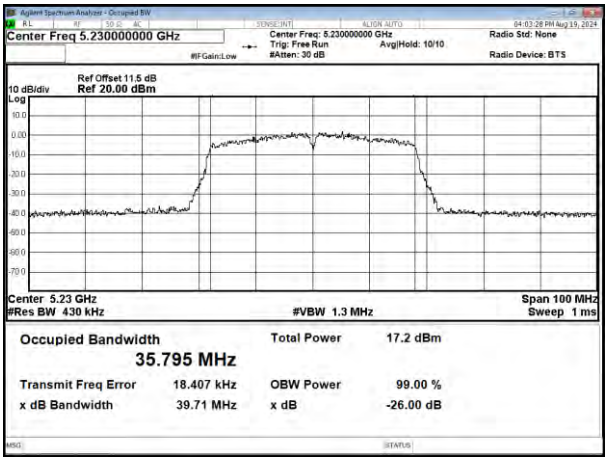


CH46



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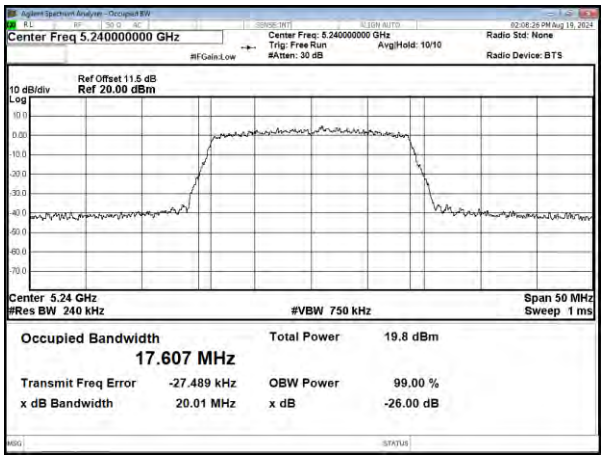
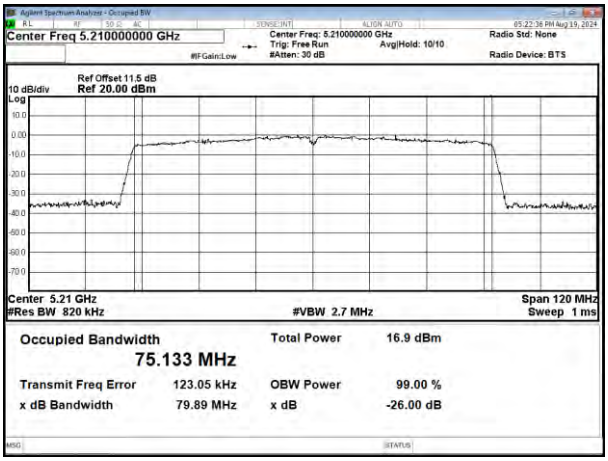
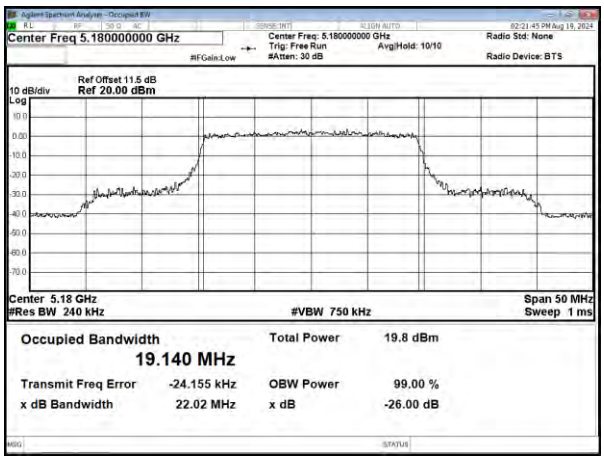


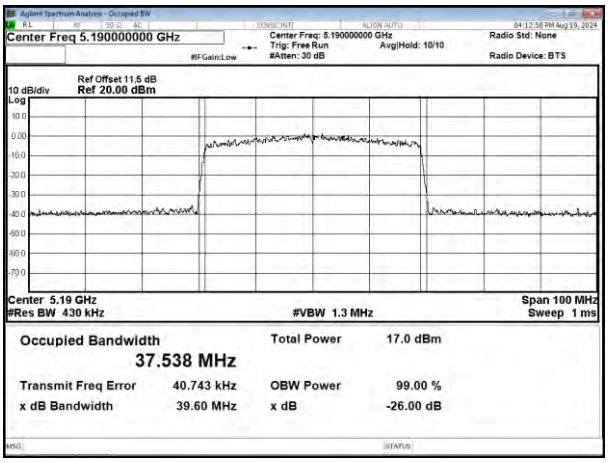
Modulation Standard: 802.11ac VHT80
CH42



Modulation Standard: 802.11 ax HE20
CH36



Modulation Standard: 802.11 ax HE40
CH38



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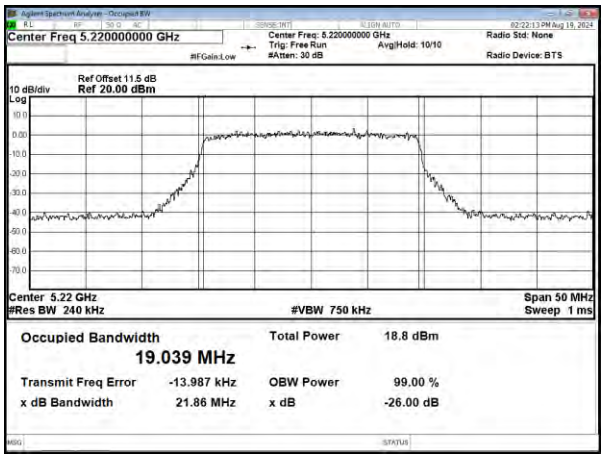
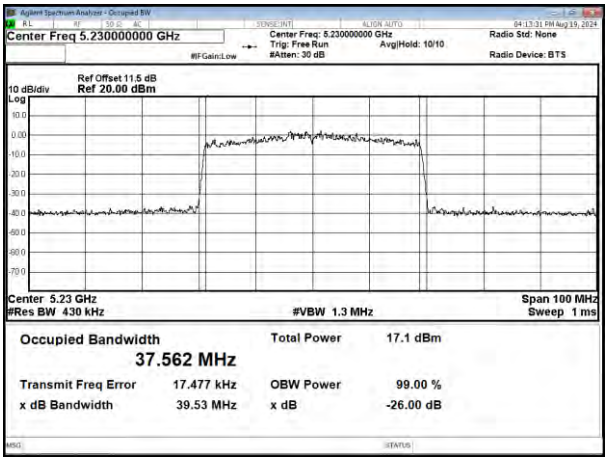
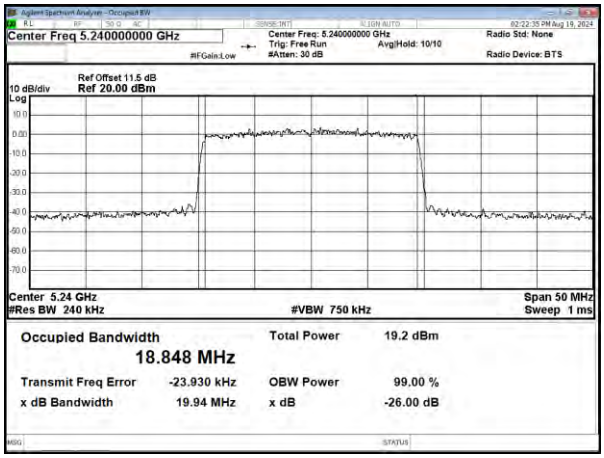


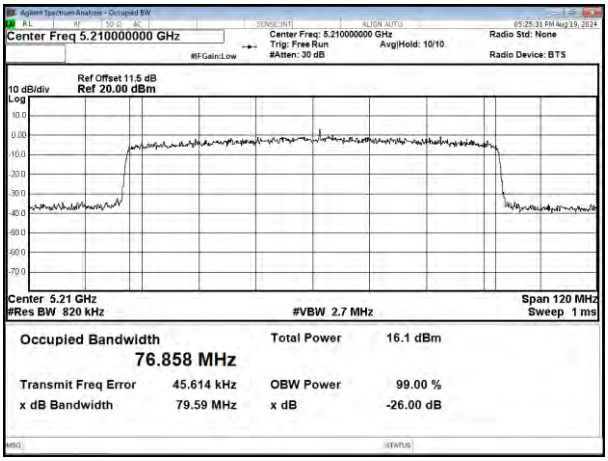
CH46



CH48



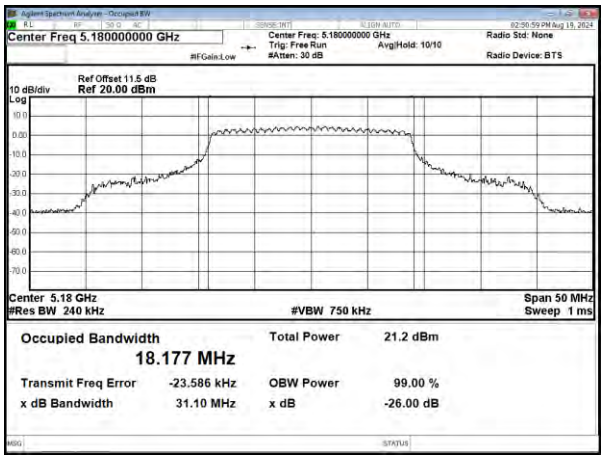
Modulation Standard: 802.11 ax HE80
CH42



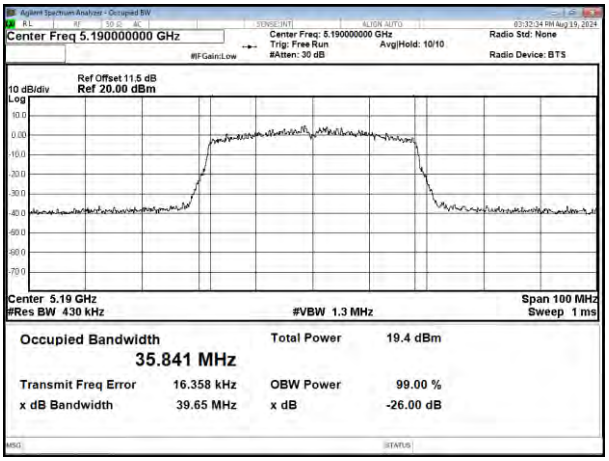
26dB Bandwidth &99% Occupied Bandwidth, UNII-1

MIMO-ANT B

Modulation Standard: 802.11ac VHT20
CH36



Modulation Standard: 802.11ac VHT40
CH38



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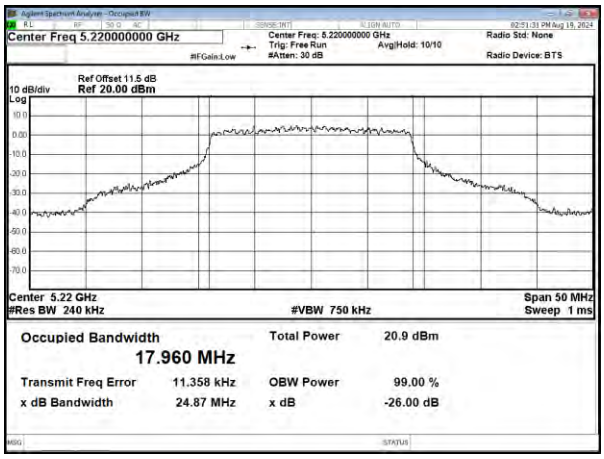

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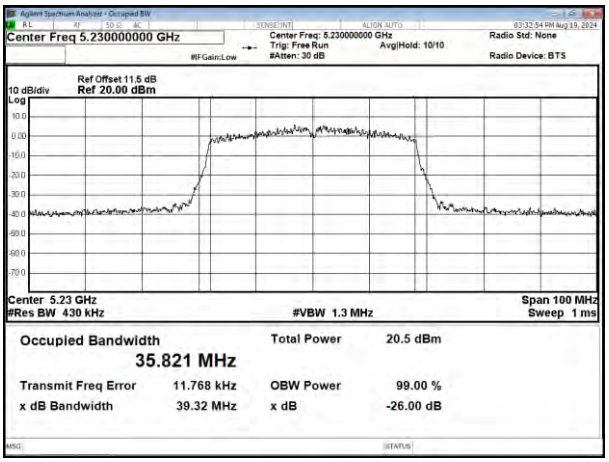
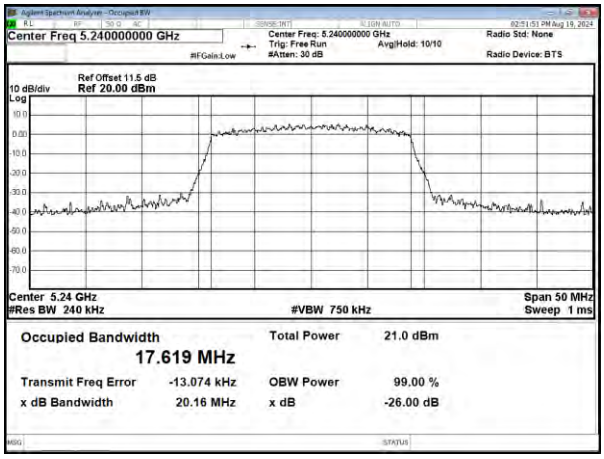
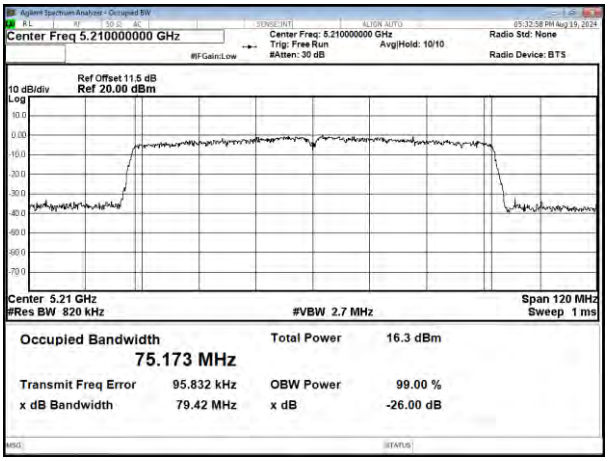


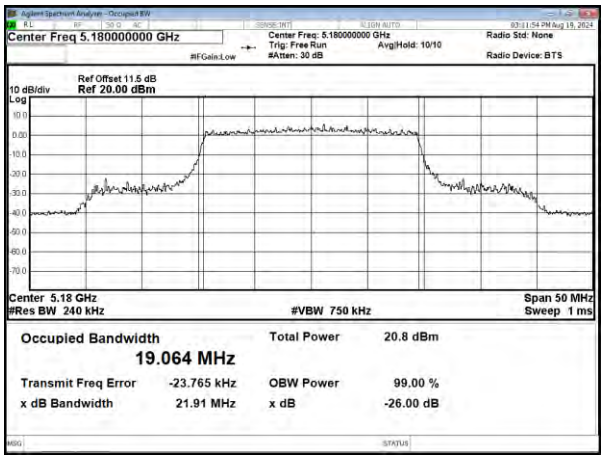
CH48



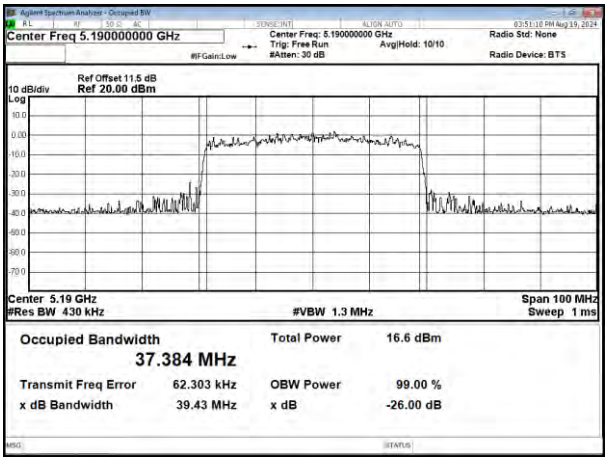
Modulation Standard: 802.11ac VHT80
CH42



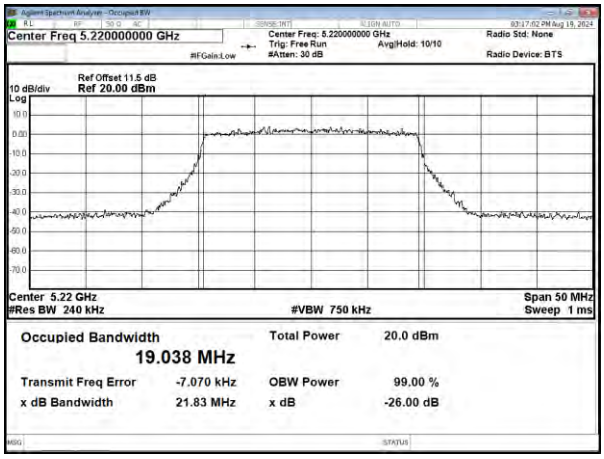
Modulation Standard: 802.11 ax HE20
CH36



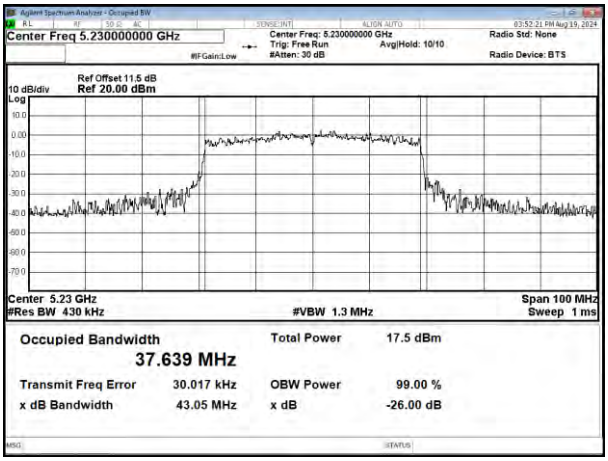
Modulation Standard: 802.11 ax HE40
CH38



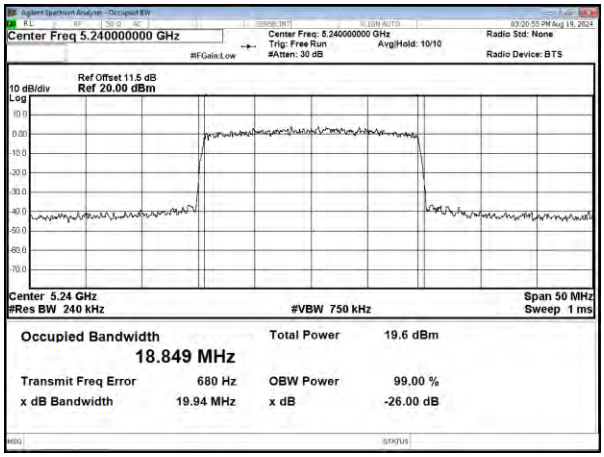
CH44



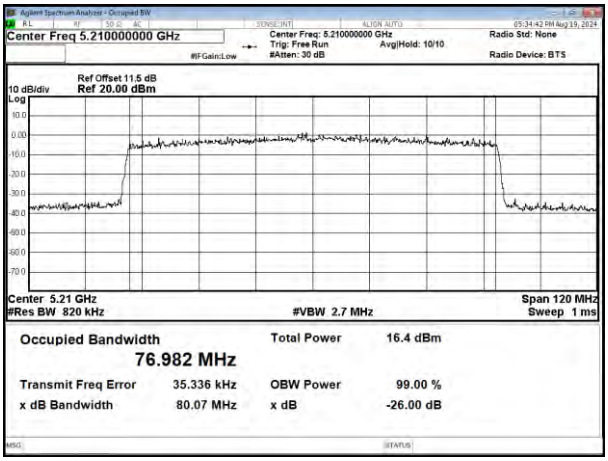
CH46



CH48



Modulation Standard: 802.11 ax HE80
CH42

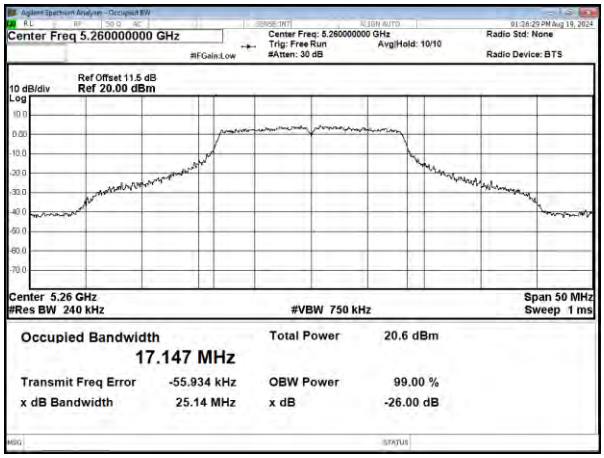


26dB Bandwidth &99% Occupied Bandwidth, UNII-2A

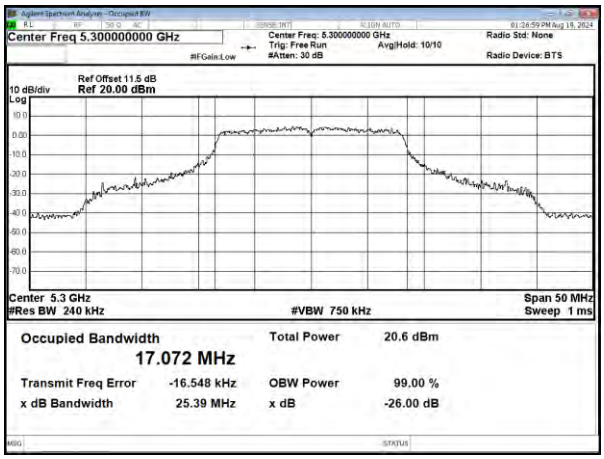
SISO-ANT A

Modulation Standard: 802.11a

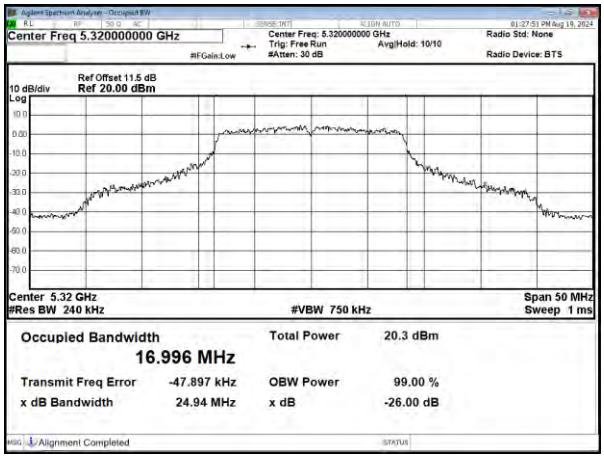
CH52



CH60



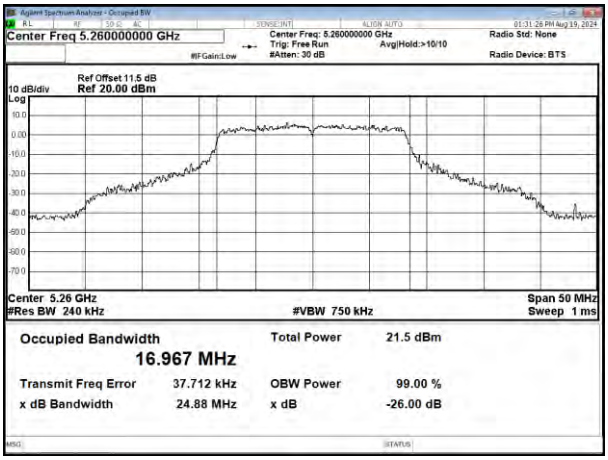
CH64



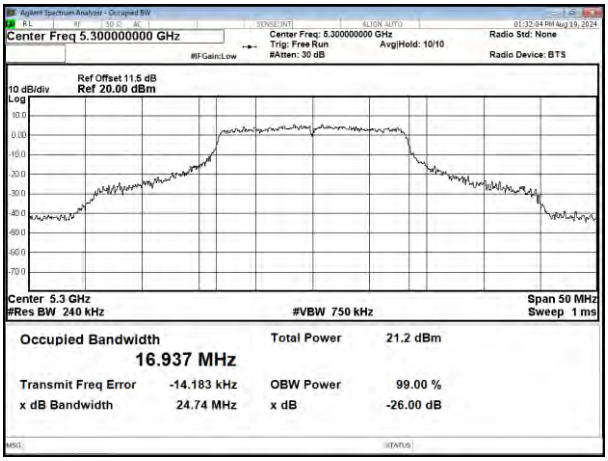
SISO-ANT B

Modulation Standard: 802.11a

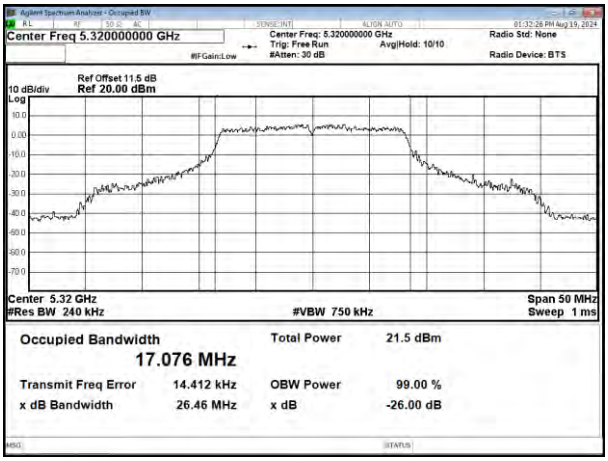
CH52



CH60



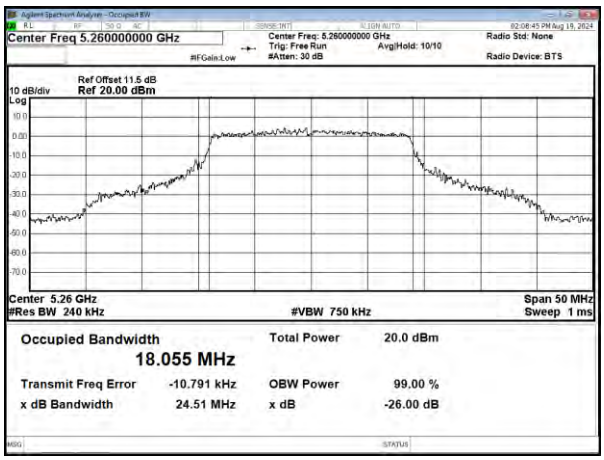
CH64



MIMO-ANT A

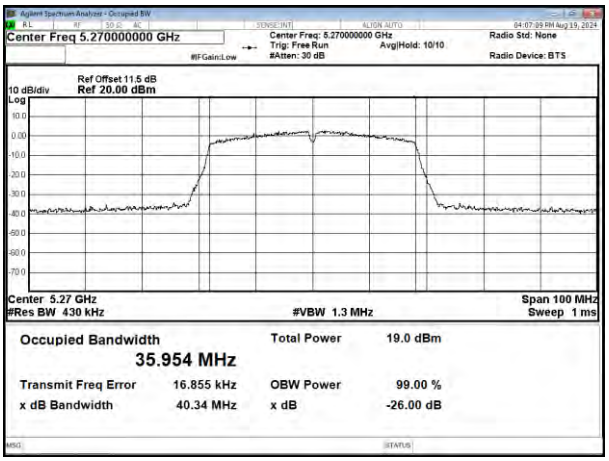
Modulation Standard: 802.11ac VHT20

CH52

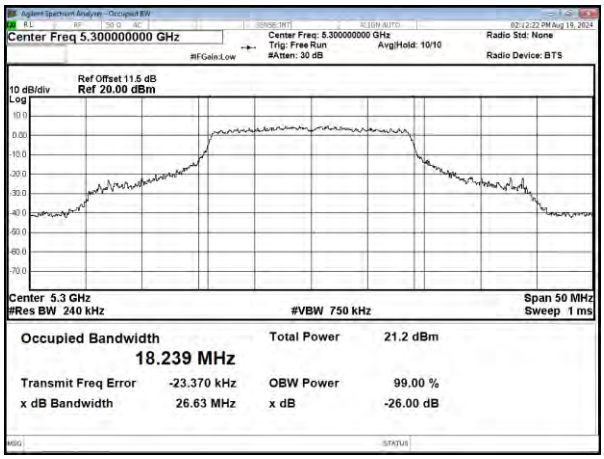


Modulation Standard: 802.11ac VHT40

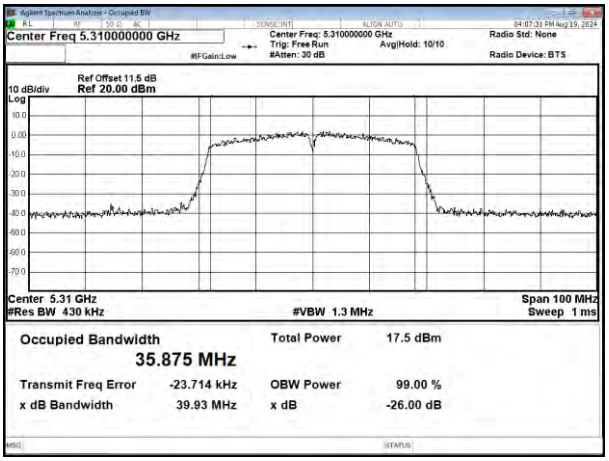
CH54



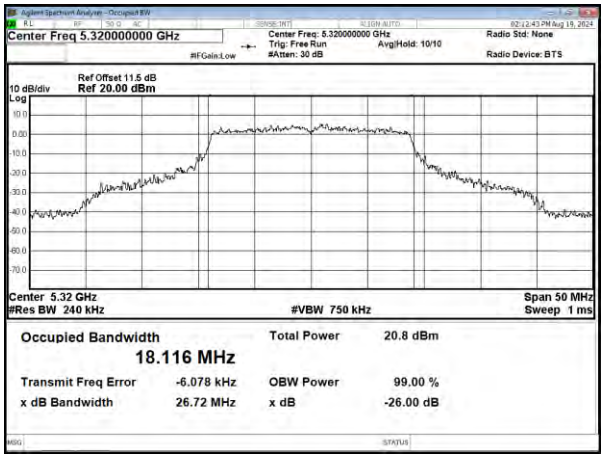
CH60



CH62

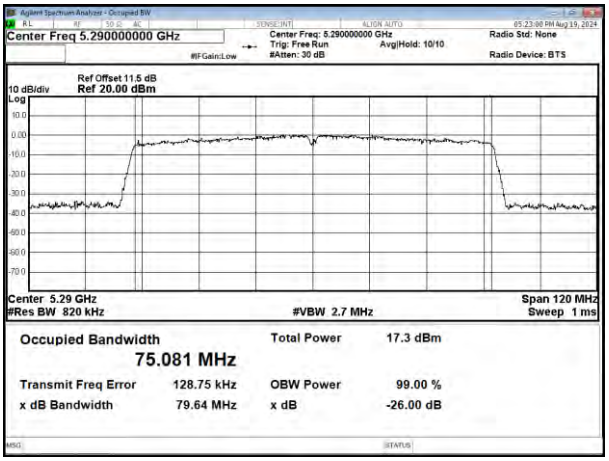


CH64



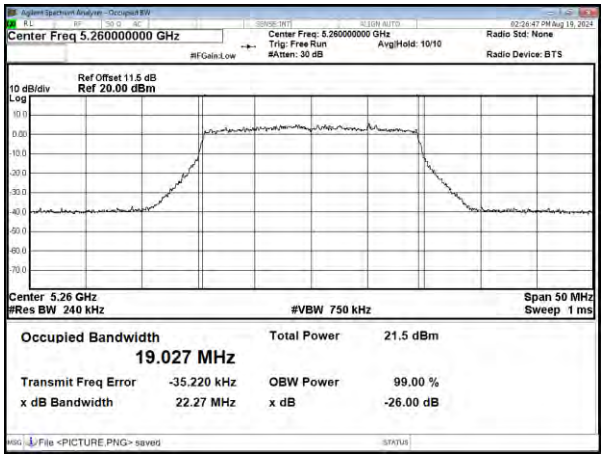
Modulation Standard: 802.11ac VHT80

CH58



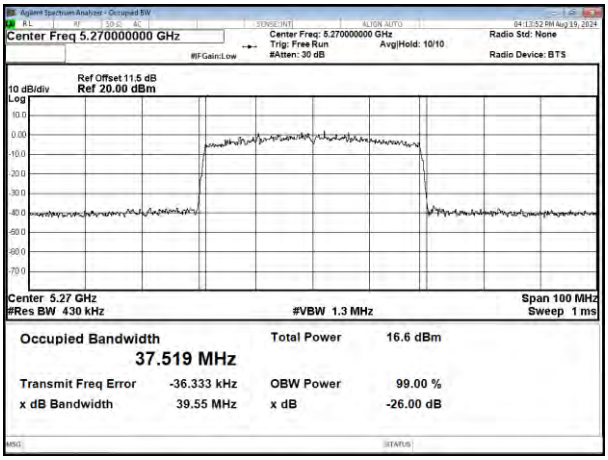
Modulation Standard: 802.11 ax HE20

CH52

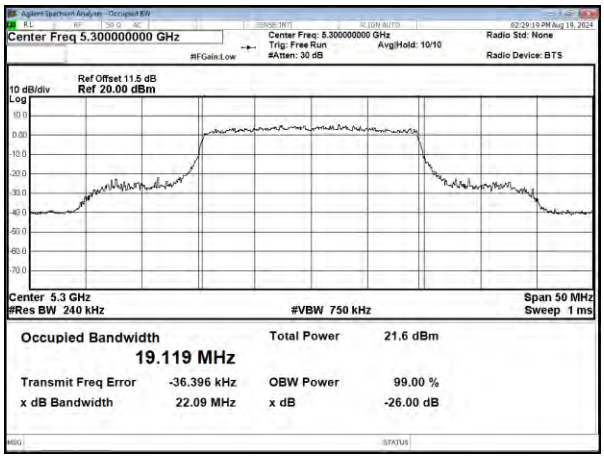


Modulation Standard: 802.11 ax HE40

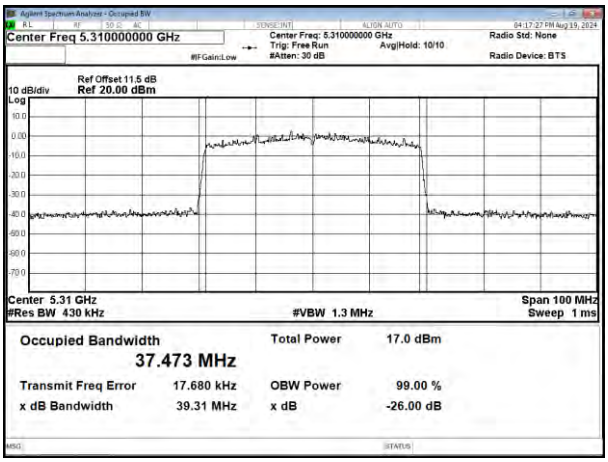
CH54



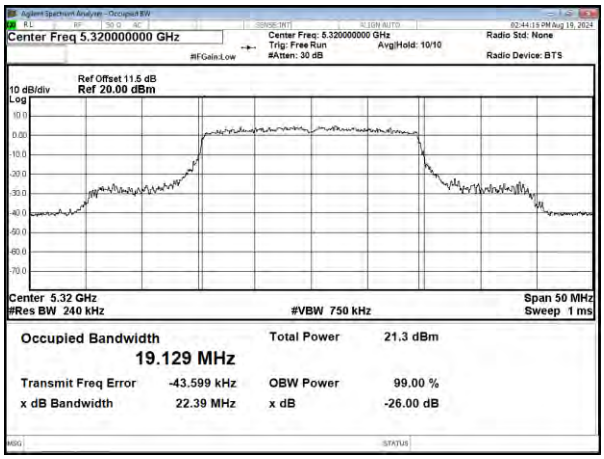
CH60



CH62

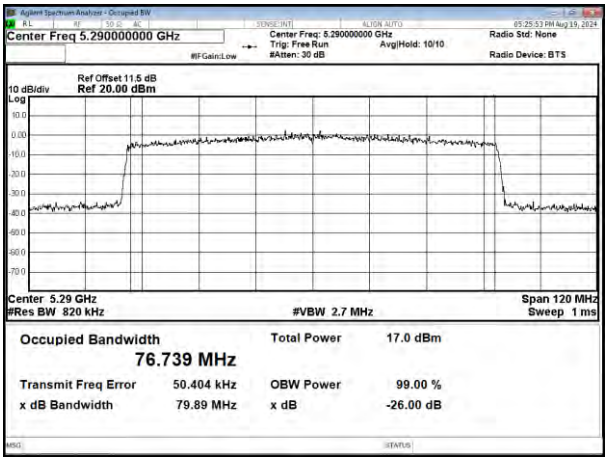


CH64



Modulation Standard: 802.11 ax HE80

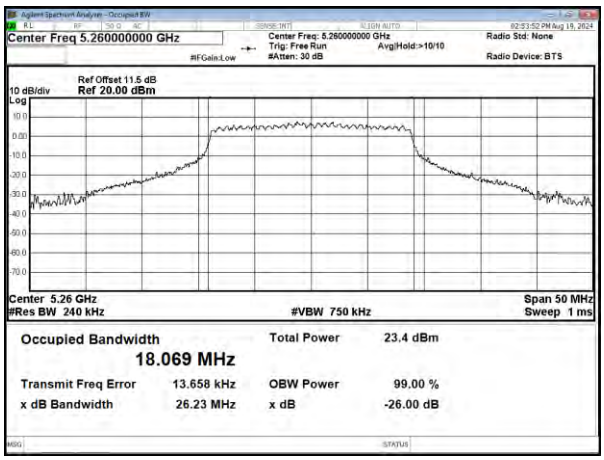
CH58



MIMO-ANT B

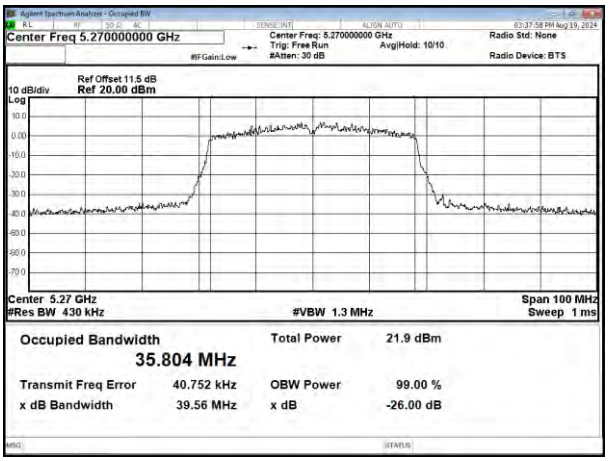
Modulation Standard: 802.11ac VHT20

CH52

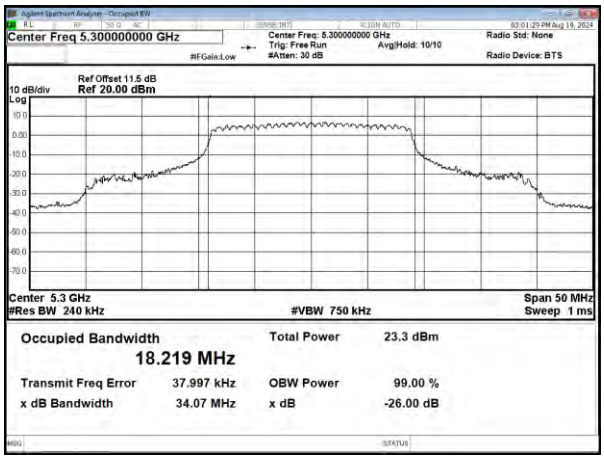


Modulation Standard: 802.11ac VHT40

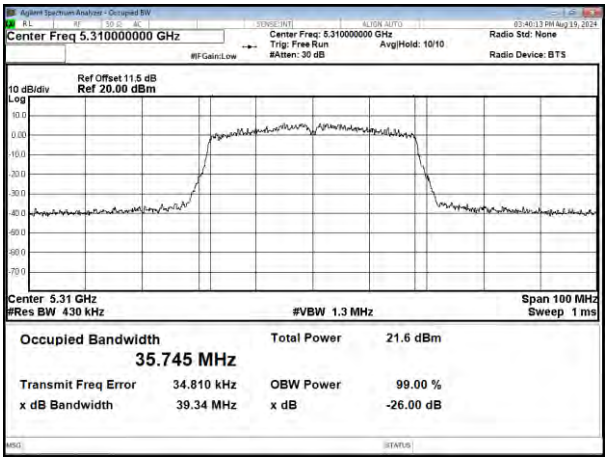
CH54



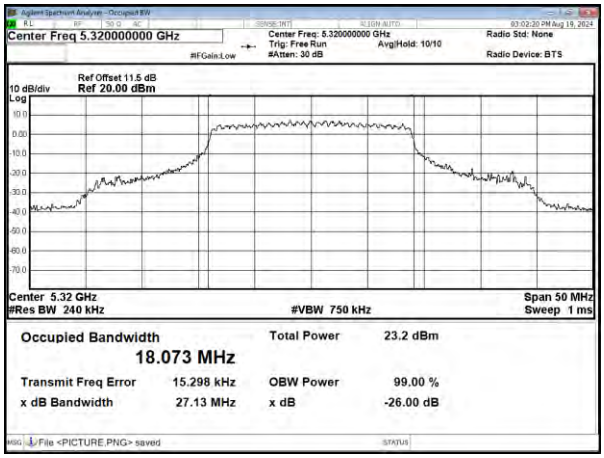
CH60



CH62

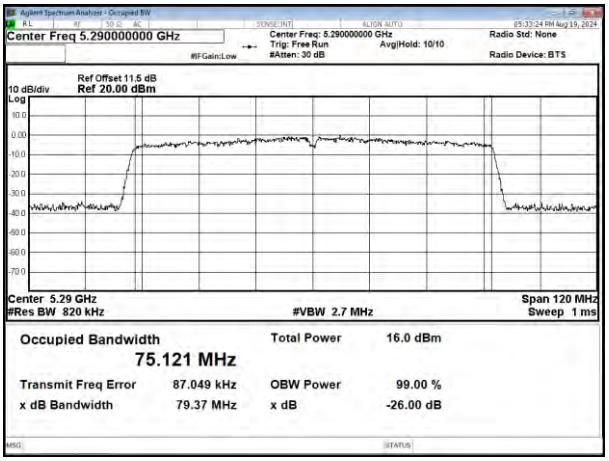


CH64



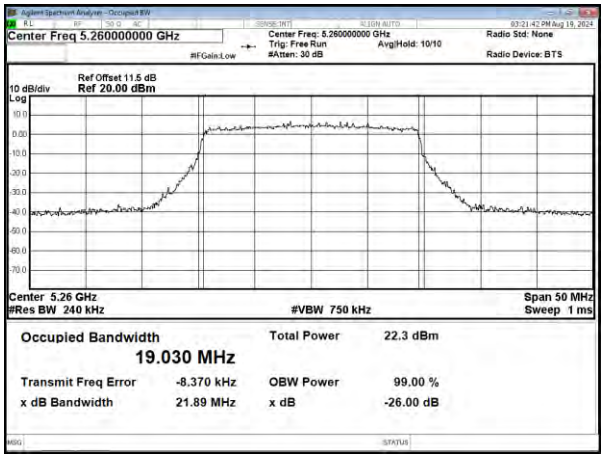
Modulation Standard: 802.11ac VHT80

CH58



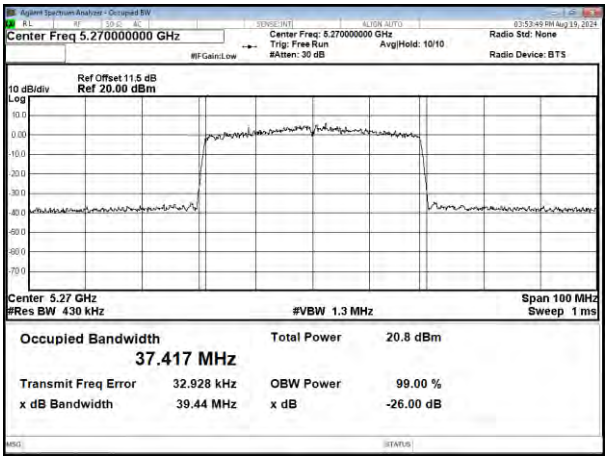
Modulation Standard: 802.11 ax HE20

CH52

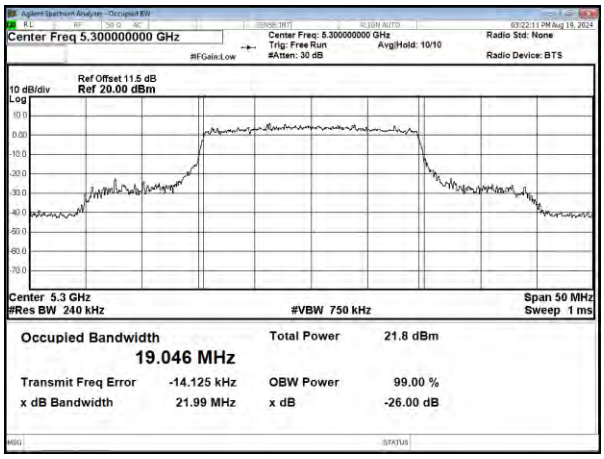


Modulation Standard: 802.11 ax HE40

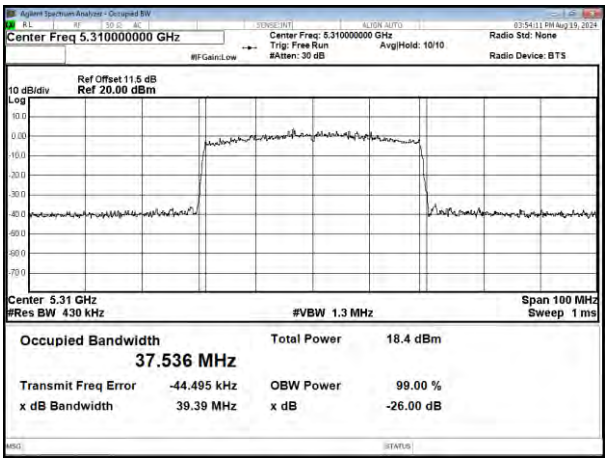
CH54



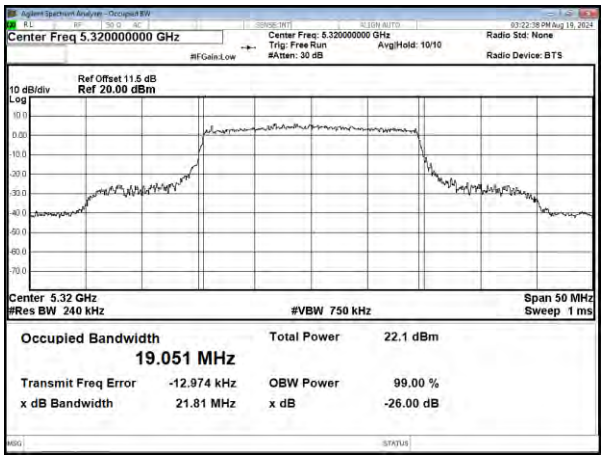
CH60



CH62

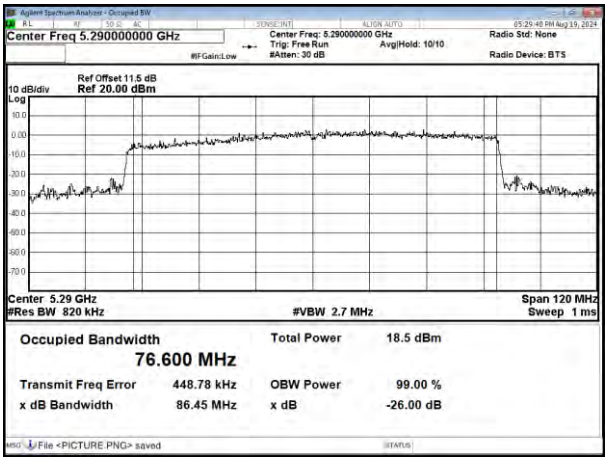


CH64



Modulation Standard: 802.11 ax HE80

CH58

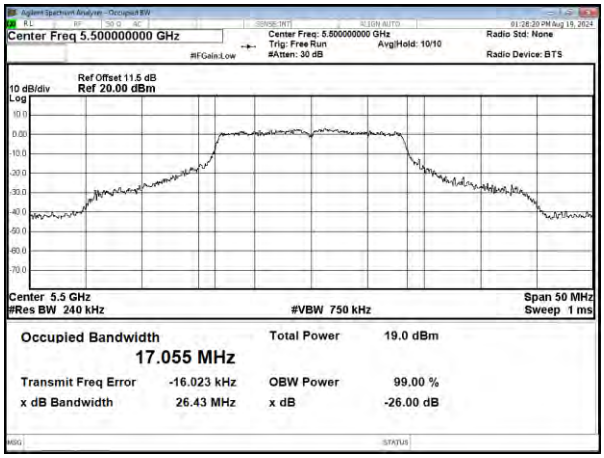


26dB Bandwidth &99% Occupied Bandwidth, UNII-2C

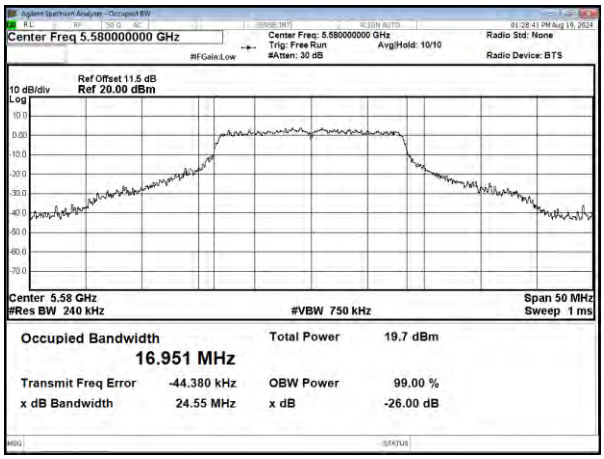
SISO-ANT A

Modulation Standard: 802.11a

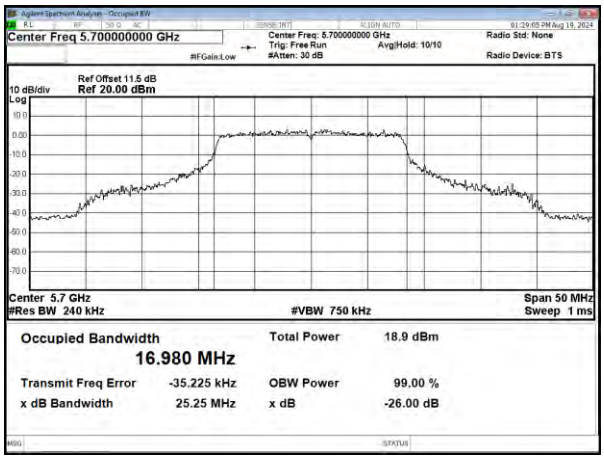
CH100



CH116



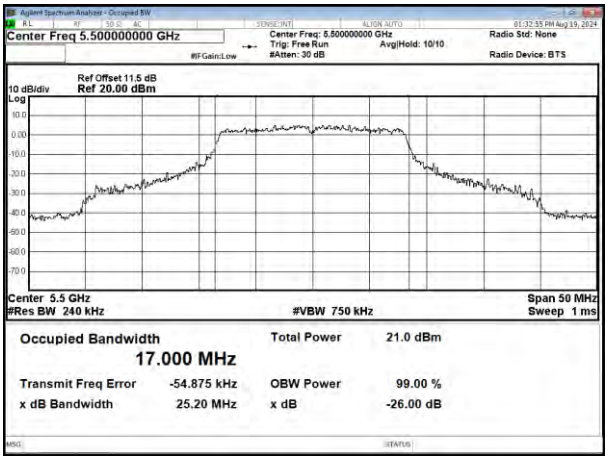
CH140



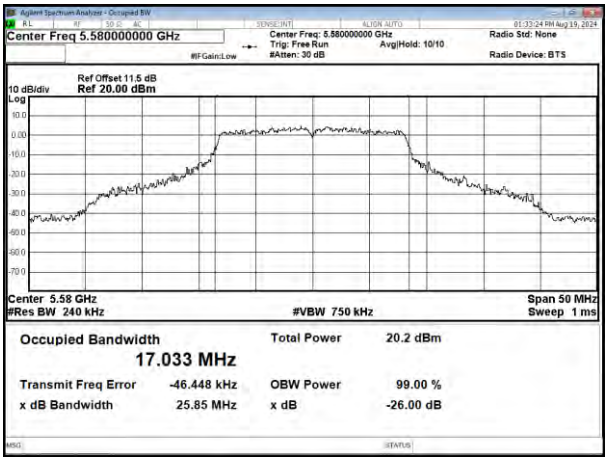
SISO-ANT B

Modulation Standard: 802.11a

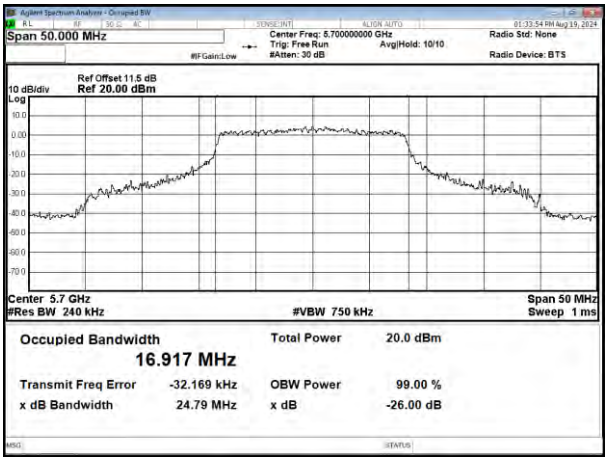
CH100



CH116



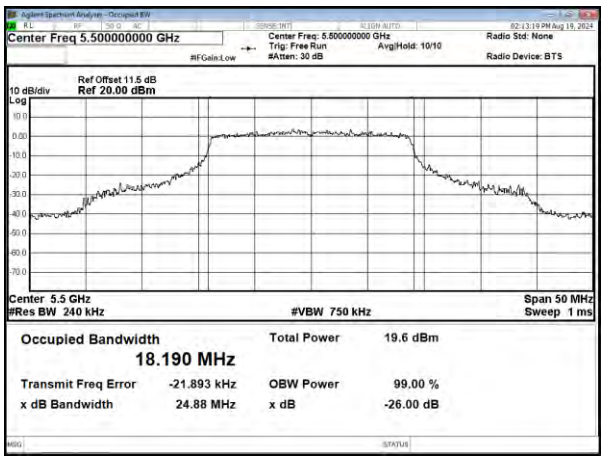
CH140



MIMO-ANT A

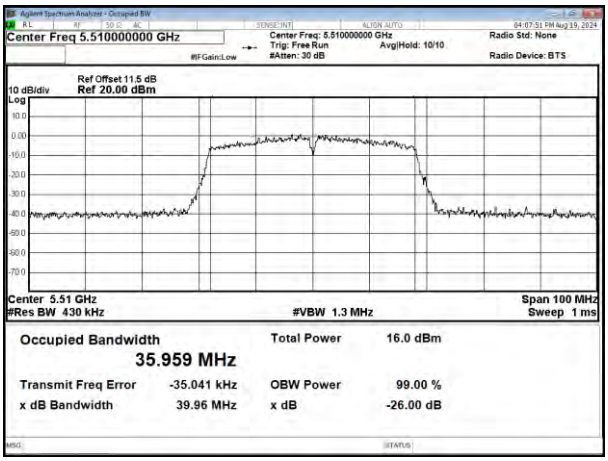
Modulation Standard: 802.11ac VHT20

CH100

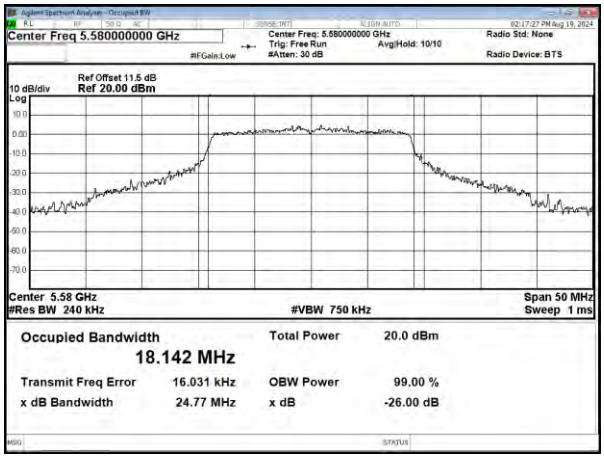


Modulation Standard: 802.11ac VHT40

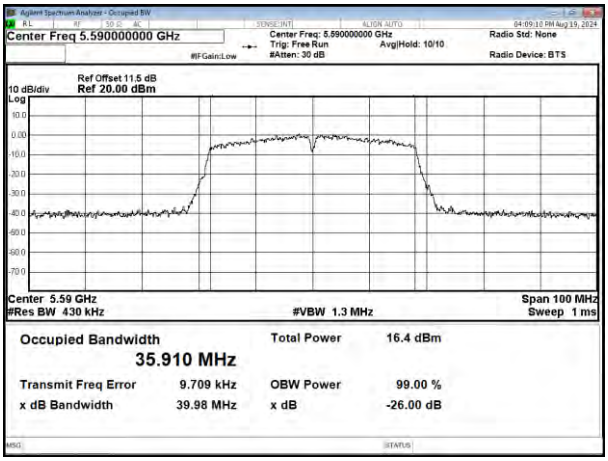
CH102



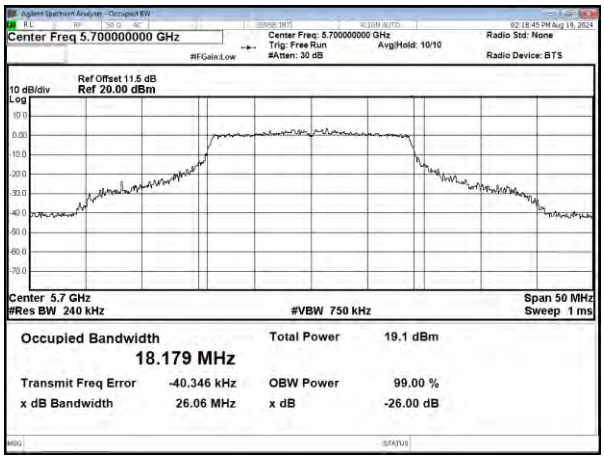
CH116



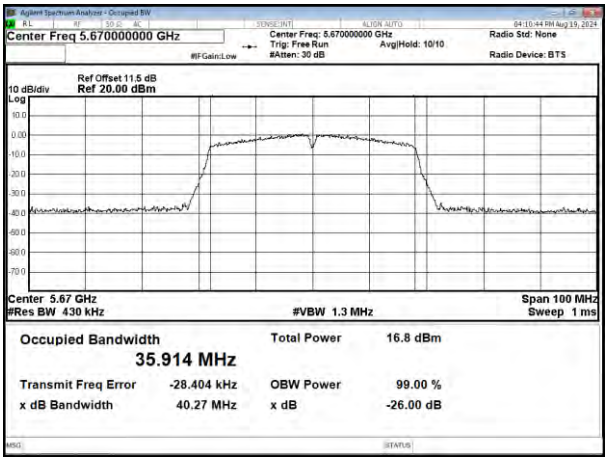
CH118



CH140

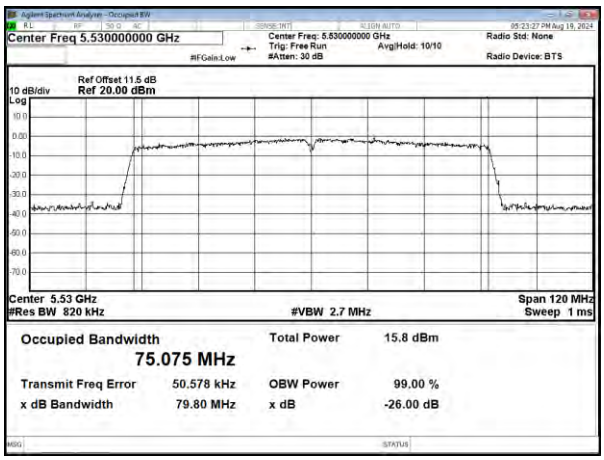


CH134

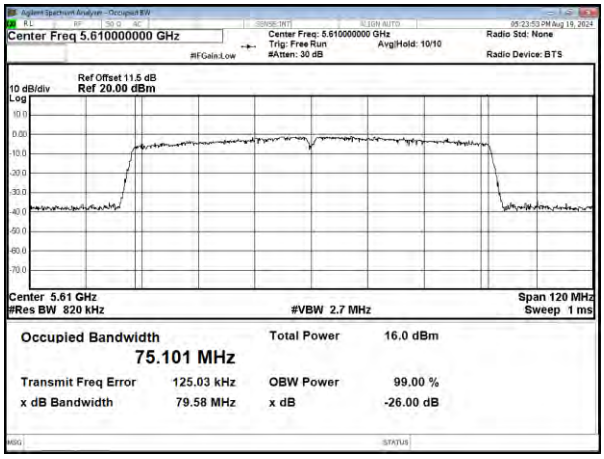


Modulation Standard: 802.11ac VHT80

CH106

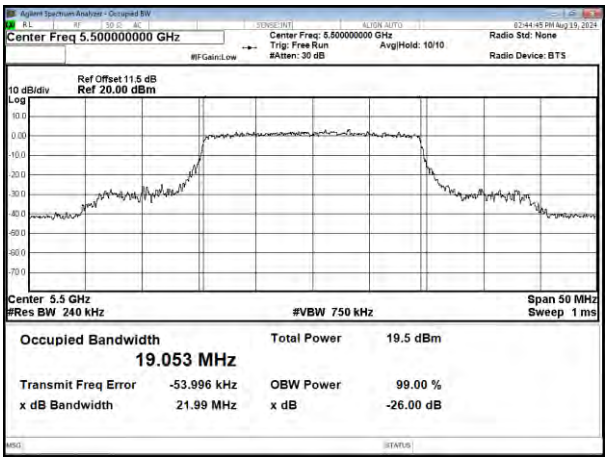


CH122

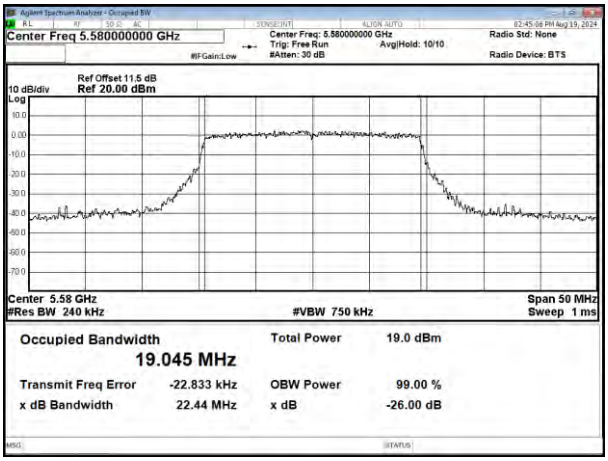


Modulation Standard: 802.11 ax HE20

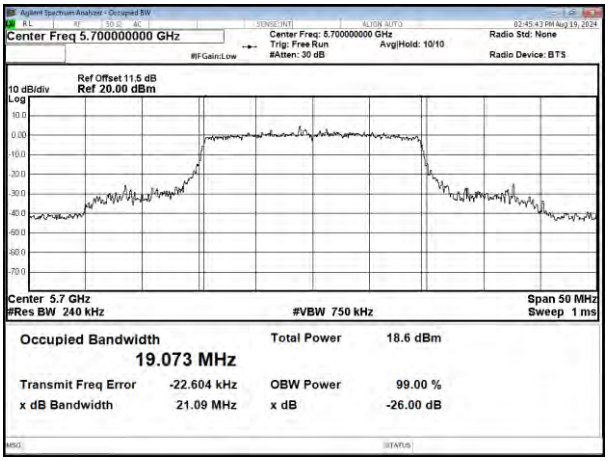
CH100



CH116

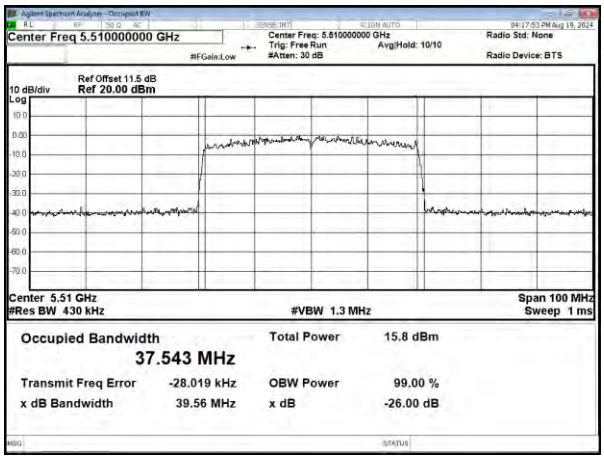


CH140



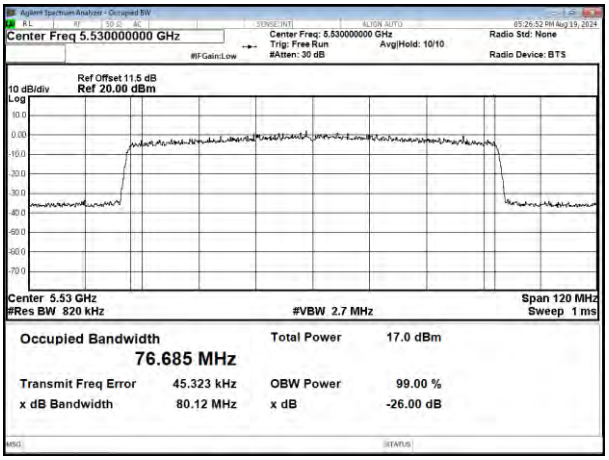
Modulation Standard: 802.11 ax HE40

CH102

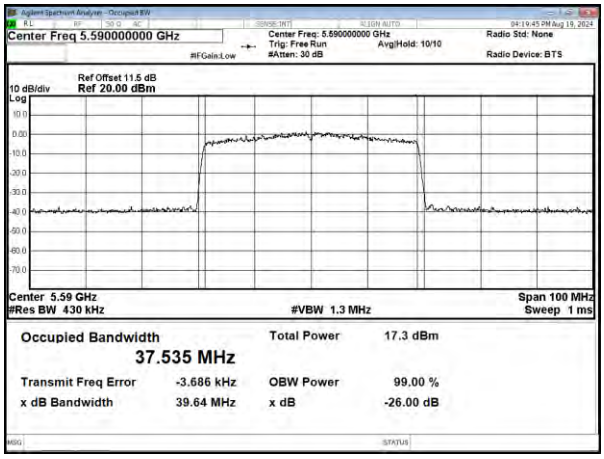


Modulation Standard: 802.11 ax HE80

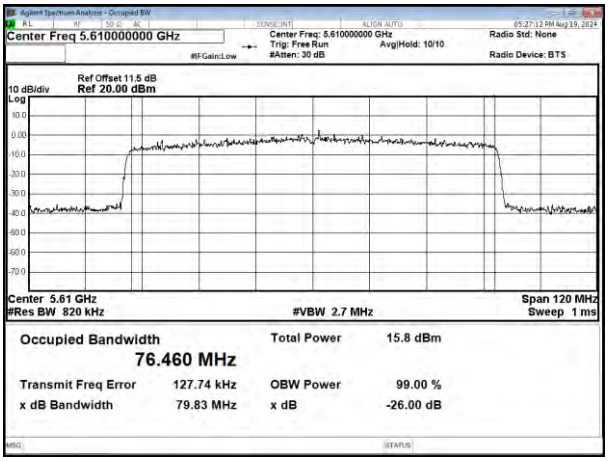
CH106



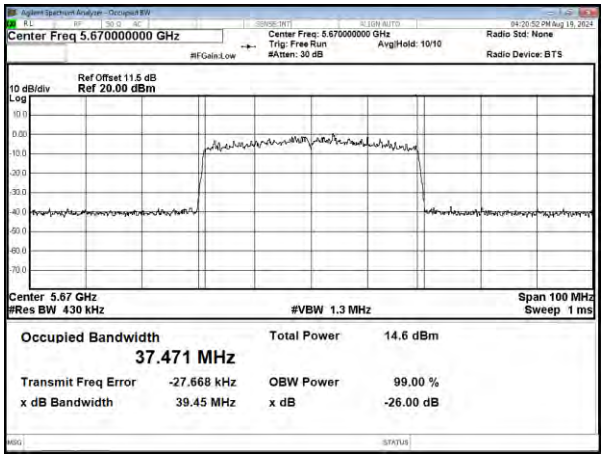
CH118



CH122



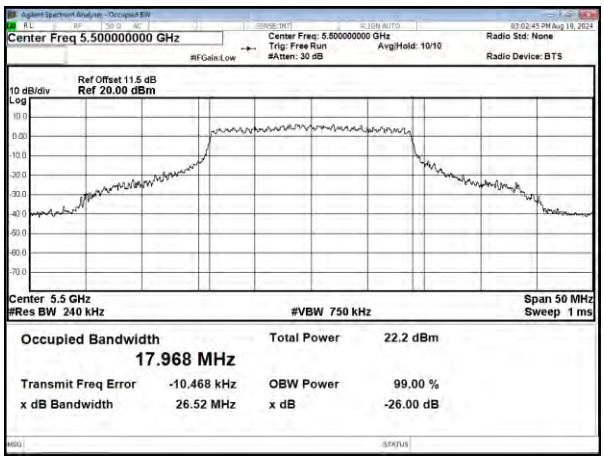
CH134



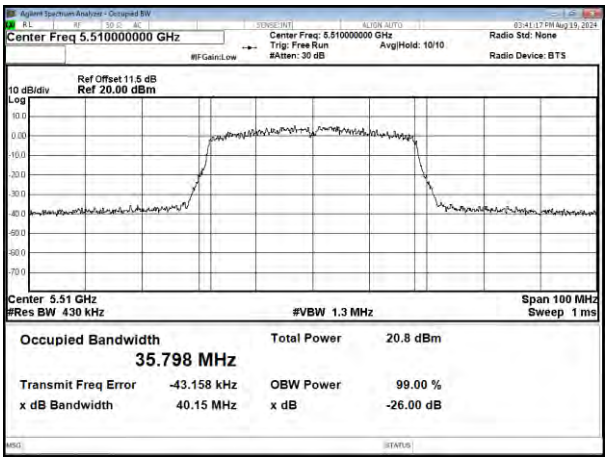
MIMO-ANT B

Modulation Standard: 802.11ac VHT20

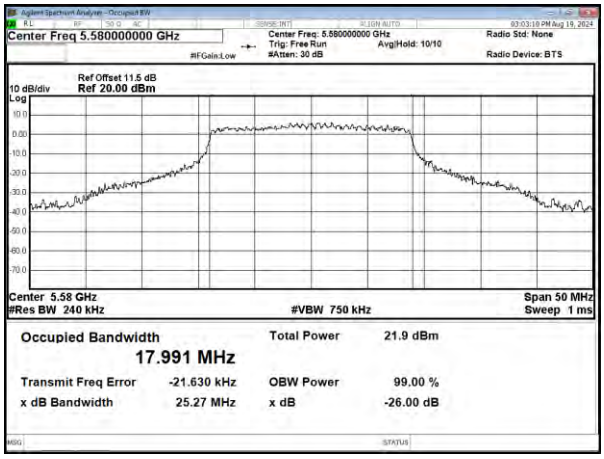
CH100



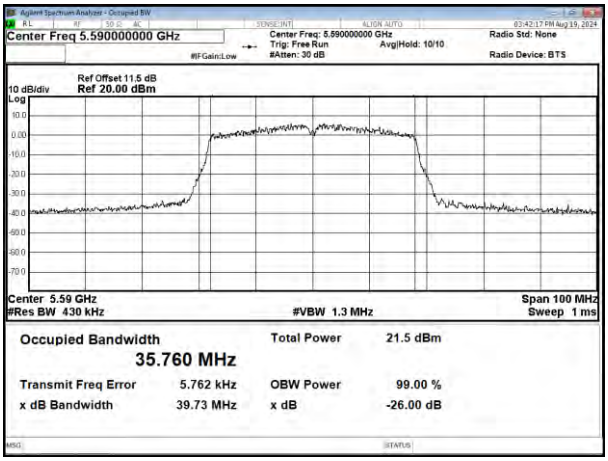
CH102



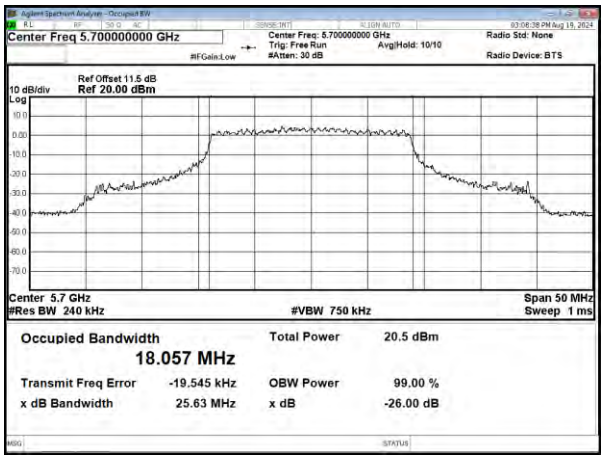
CH116



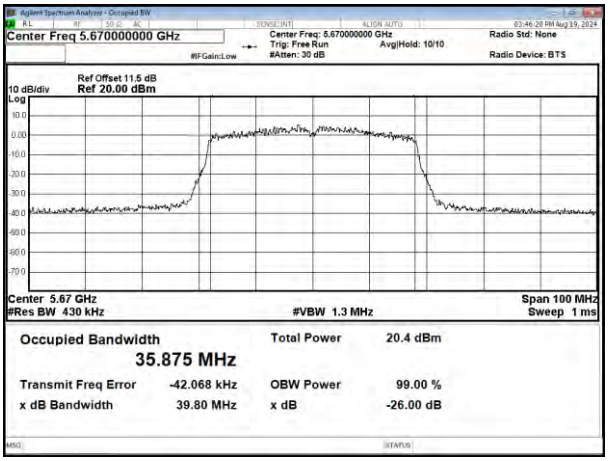
CH118



CH140

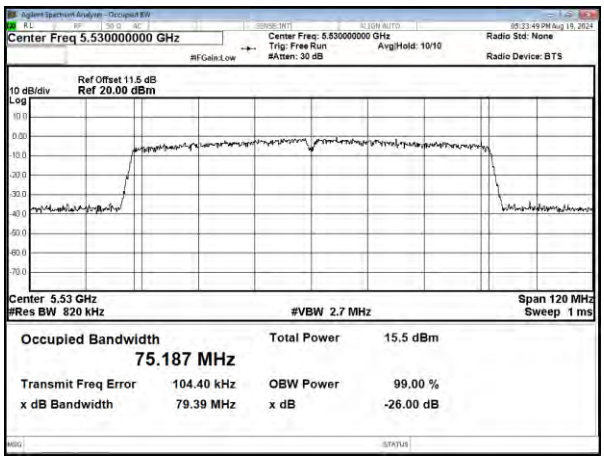


CH134

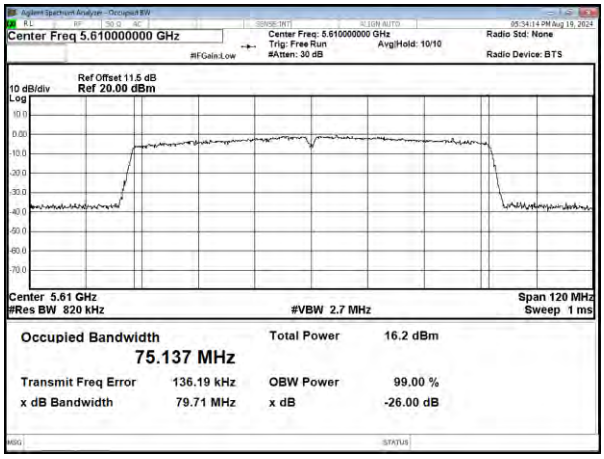


Modulation Standard: 802.11ac VHT80

CH106

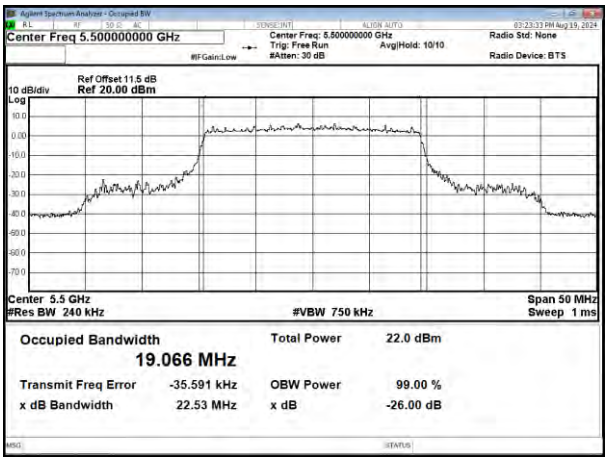


CH122

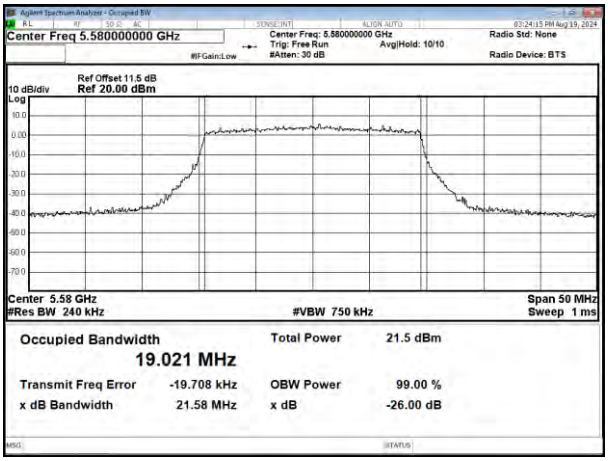


Modulation Standard: 802.11 ax HE20

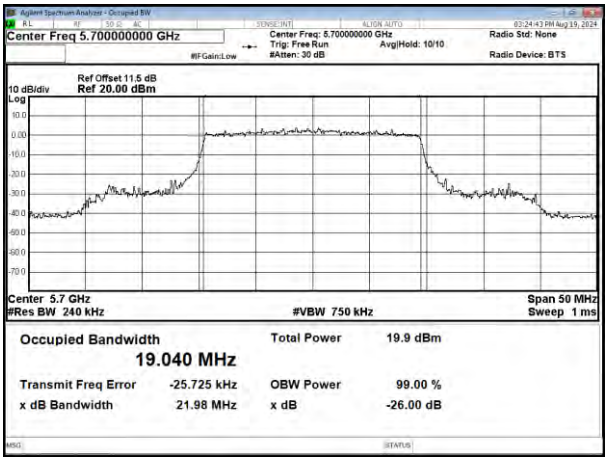
CH100



CH116

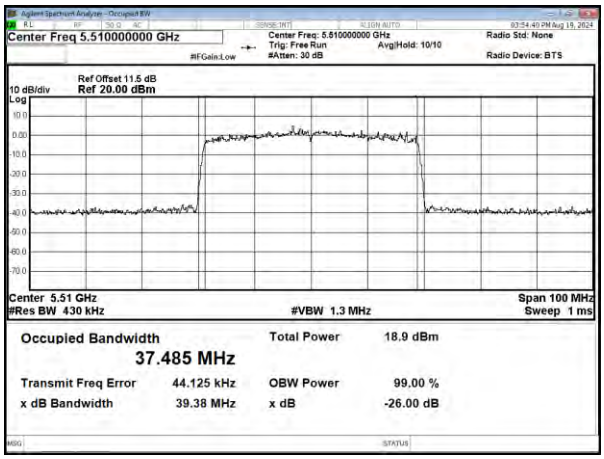


CH140



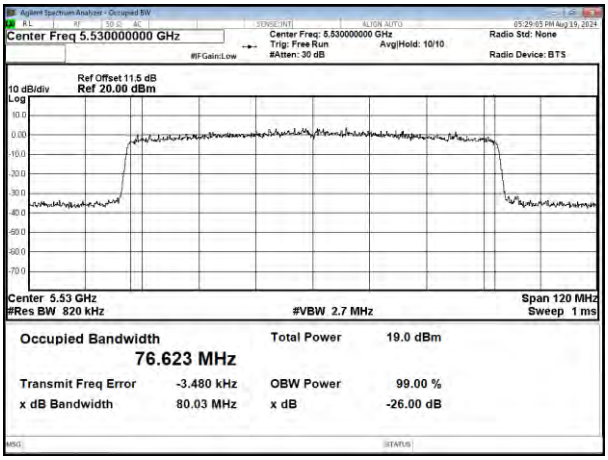
Modulation Standard: 802.11 ax HE40

CH102

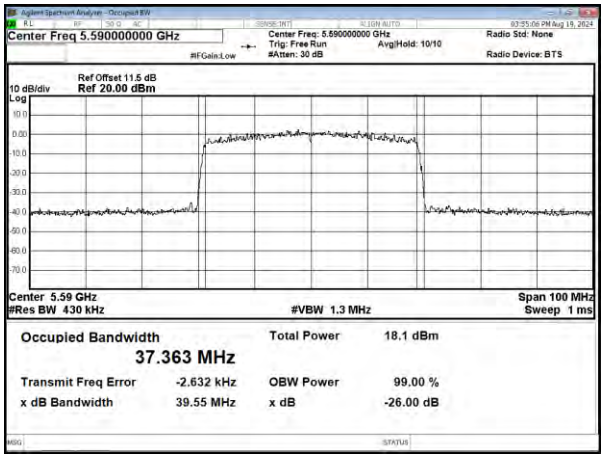


Modulation Standard: 802.11 ax HE80

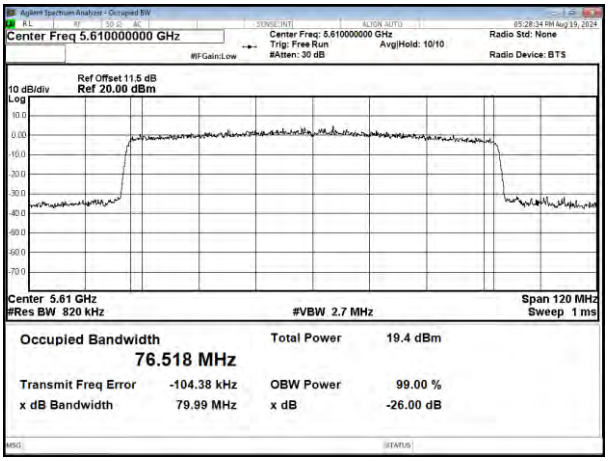
CH106



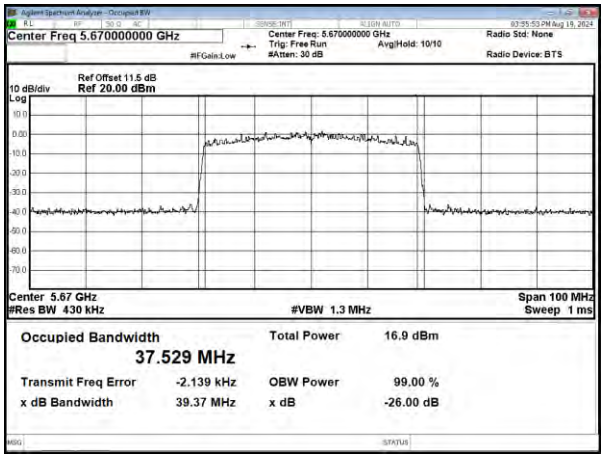
CH118



CH122



CH134



10. Average Power

10.1. Test Limit

Output Power:

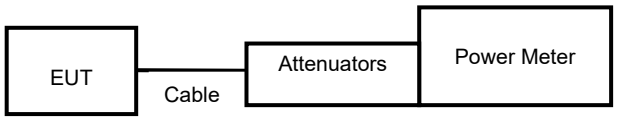
Frequency Band			Limit
☒	5.15~5.25GHz		
	Operating Mode		
	☐	Outdoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30degrees as measured from the horizon must not exceed125 mW (21 dBm).
	☐	Indoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
	☐	Fixed point-to-point access points	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.
	☒	client devices	The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Frequency Band		Limit
☒	5.25-5.35 GHz	The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
☒	5.470-5.725 GHz	
☒	5.725~5.85 GHz	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.

10.2. Test Procedure

The transmitter output is connected to a power meter.
The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

10.3. Test Setup Layout



10.4.Test Result and Data

SISO-ANTA

In the 5.2G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	36	5180	13.850	24.266	23.49
11a	6 Mbps	44	5220	14.110	25.763	23.49
11a	6 Mbps	48	5240	14.280	26.792	23.49

In the 5.3G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	52	5260	14.480	28.054	23.49
11a	6 Mbps	60	5300	14.770	29.992	23.49
11a	6 Mbps	64	5320	15.010	31.696	23.49

In the 5.5G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	100	5500	13.110	20.464	24.00
11a	6 Mbps	116	5580	13.000	19.953	24.00
11a	6 Mbps	140	5700	12.510	17.824	24.00

In the 5.8G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	149	5745	12.290	16.943	30.00
11a	6 Mbps	157	5785	12.490	17.742	30.00
11a	6 Mbps	165	5825	12.900	19.498	30.00

SISO-ANTB

In the 5.2G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	36	5180	14.740	29.785	23.72
11a	6 Mbps	44	5220	14.980	31.477	23.72
11a	6 Mbps	48	5240	15.260	33.574	23.72

In the 5.3G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	52	5260	16.530	44.978	23.70
11a	6 Mbps	60	5300	15.930	39.174	23.70
11a	6 Mbps	64	5320	16.210	41.783	23.70

In the 5.5G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	100	5500	15.800	38.019	23.74
11a	6 Mbps	116	5580	14.970	31.405	23.74
11a	6 Mbps	140	5700	13.660	23.227	23.74

In the 5.8G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	149	5745	12.810	19.099	29.84
11a	6 Mbps	157	5785	12.950	19.724	29.84
11a	6 Mbps	165	5825	13.700	23.442	29.84

MIMO

In the 5.2G Band

Modulation Type	Data Rate	Frequency (MHz)	Avg Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
			ANT A	ANT B	A+B	A+B	
11n HT20	MCS 0	5180	13.140	14.440	16.849	48.403	23.49
11n HT20	MCS 0	5220	13.530	14.770	17.204	52.534	23.49
11n HT20	MCS 0	5240	13.710	15.050	17.442	55.485	23.49
11n HT40	MCS 0	5190	12.810	10.360	14.766	29.963	23.49
11n HT40	MCS 0	5230	13.060	11.160	15.223	33.292	23.49
11ac VHT20	NSS1-MCS0	5180	13.280	14.590	16.995	50.055	23.49
11ac VHT20	NSS1-MCS0	5220	13.630	14.920	17.333	54.113	23.49
11ac VHT20	NSS1-MCS0	5240	13.820	15.160	17.552	56.909	23.49
11ac VHT40	NSS1-MCS0	5190	12.840	10.490	14.832	30.425	23.49
11ac VHT40	NSS1-MCS0	5230	13.130	11.260	15.305	33.925	23.49
11ac VHT80	NSS1-MCS0	5210	10.170	10.700	13.453	22.148	23.49
11ax HE20	NSS1-MCS0	5180	11.470	12.770	15.179	32.952	23.49
11ax HE20	NSS1-MCS0	5220	11.900	13.040	15.518	35.625	23.49
11ax HE20	NSS1-MCS0	5240	12.050	13.340	15.753	37.610	23.49
11ax HE40	NSS1-MCS0	5190	10.920	9.480	13.270	21.231	23.49
11ax HE40	NSS1-MCS0	5230	11.370	9.860	13.691	23.392	23.49
11ax HE80	NSS1-MCS0	5210	9.260	9.790	12.543	17.961	23.49

In the 5.3G Band

Modulation Type	Data Rate	Frequency (MHz)	Avg Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
			ANT A	ANT B	A+B	A+B	
11n HT20	MCS 0	5260	14.110	16.180	18.277	67.259	23.49
11n HT20	MCS 0	5300	14.350	15.810	18.151	65.334	23.49
11n HT20	MCS 0	5320	14.370	16.080	18.319	67.904	23.49
11n HT40	MCS 0	5270	14.290	11.750	16.213	41.816	23.49
11n HT40	MCS 0	5310	14.160	12.190	16.296	42.619	23.49
11ac VHT20	NSS1-MCS0	5260	14.130	16.420	18.435	69.735	23.49
11ac VHT20	NSS1-MCS0	5300	14.450	16.010	18.310	67.764	23.49
11ac VHT20	NSS1-MCS0	5320	14.480	16.180	18.423	69.550	23.49
11ac VHT40	NSS1-MCS0	5270	14.420	11.970	16.376	43.409	23.49
11ac VHT40	NSS1-MCS0	5310	14.240	12.240	16.364	43.295	23.49
11ac VHT80	NSS1-MCS0	5290	12.160	12.620	15.406	34.725	23.49
11ax HE20	NSS1-MCS0	5260	12.090	14.550	16.502	44.691	23.49
11ax HE20	NSS1-MCS0	5300	12.570	14.070	16.395	43.599	23.49
11ax HE20	NSS1-MCS0	5320	12.740	13.360	16.071	40.470	23.49
11ax HE40	NSS1-MCS0	5270	12.880	10.260	14.775	30.026	23.49
11ax HE40	NSS1-MCS0	5310	11.870	10.500	14.249	26.602	23.49
11ax HE80	NSS1-MCS0	5290	11.670	11.750	14.720	29.652	23.49

In the 5.5G Band

Modulation Type	Data Rate	Frequency (MHz)	Avg Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
			ANT A	ANT B	A+B	A+B	
11n HT20	MCS 0	5500	12.920	15.680	17.526	56.571	23.74
11n HT20	MCS 0	5580	13.120	15.250	17.325	54.008	23.74
11n HT20	MCS 0	5700	12.360	13.830	16.167	41.373	23.74
11n HT40	MCS 0	5510	13.730	11.020	15.593	36.252	23.74
11n HT40	MCS 0	5590	13.420	11.010	15.390	34.597	23.74
11n HT40	MCS 0	5670	12.160	10.510	14.423	27.690	23.74
11ac VHT20	NSS1-MCS0	5500	13.070	15.840	17.682	58.648	23.74
11ac VHT20	NSS1-MCS0	5580	13.190	15.420	17.457	55.679	23.74
11ac VHT20	NSS1-MCS0	5700	12.440	14.070	16.341	43.066	23.74
11ac VHT40	NSS1-MCS0	5510	13.940	11.060	15.745	37.539	23.74
11ac VHT40	NSS1-MCS0	5590	13.480	11.090	15.458	35.137	23.74
11ac VHT40	NSS1-MCS0	5670	12.330	10.620	14.569	28.635	23.74
11ac VHT80	NSS1-MCS0	5530	11.300	11.400	14.361	27.293	23.74
11ac VHT80	NSS1-MCS0	5610	11.400	11.470	14.445	27.832	23.74
11ax HE20	NSS1-MCS0	5500	11.290	13.900	15.798	38.006	23.74
11ax HE20	NSS1-MCS0	5580	11.410	13.440	15.553	35.916	23.74
11ax HE20	NSS1-MCS0	5700	10.710	12.060	14.448	27.845	23.74
11ax HE40	NSS1-MCS0	5510	11.920	9.220	13.787	23.916	23.74
11ax HE40	NSS1-MCS0	5590	11.490	9.370	13.568	22.743	23.74
11ax HE40	NSS1-MCS0	5670	10.580	8.740	12.767	18.910	23.74
11ax HE80	NSS1-MCS0	5530	10.660	10.500	13.591	22.861	23.74
11ax HE80	NSS1-MCS0	5610	10.530	10.510	13.530	22.544	23.74

In the 5.8G Band

Modulation Type	Data Rate	Frequency (MHz)	Avg Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
			ANT A	ANT B	A+B	A+B	
11n HT20	MCS 0	5745	12.430	13.150	15.815	38.152	29.84
11n HT20	MCS 0	5785	12.450	13.260	15.884	38.763	29.84
11n HT20	MCS 0	5825	12.860	13.710	16.316	42.816	29.84
11n HT40	MCS 0	5755	11.410	10.400	13.945	24.800	29.84
11n HT40	MCS 0	5795	11.310	10.570	13.966	24.923	29.84
11ac VHT20	NSS1-MCS0	5745	12.520	13.230	15.900	38.903	29.84
11ac VHT20	NSS1-MCS0	5785	12.670	13.310	16.012	39.922	29.84
11ac VHT20	NSS1-MCS0	5825	13.060	13.890	16.505	44.721	29.84
11ac VHT40	NSS1-MCS0	5755	11.500	10.480	14.030	25.294	29.84
11ac VHT40	NSS1-MCS0	5795	11.350	10.780	14.085	25.613	29.84
11ac VHT80	NSS1-MCS0	5775	8.860	8.840	11.860	15.347	29.84
11ax HE20	NSS1-MCS0	5745	10.670	11.270	13.991	25.065	29.84
11ax HE20	NSS1-MCS0	5785	10.730	11.320	14.045	25.382	29.84
11ax HE20	NSS1-MCS0	5825	11.220	11.970	14.621	28.983	29.84
11ax HE40	NSS1-MCS0	5755	9.280	8.700	12.010	15.885	29.84
11ax HE40	NSS1-MCS0	5795	9.310	8.920	12.130	16.329	29.84
11ax HE80	NSS1-MCS0	5775	7.930	7.900	10.925	12.375	29.84

11. Maximum Power Spectral Density

11.1. Test Limit

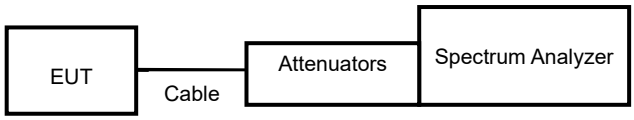
PSD:

Frequency Band			Limit
☒	5.15~5.25GHz		
	Operating Mode		
	☐	Outdoor access point	17 dBm/MHz
	☐	Indoor access point	17 dBm/MHz
	☐	Fixed point-to-point access points	17 dBm/MHz
	☒	client devices	11 dBm/MHz
☒	5.250~5.350 GHz		11 dBm/MHz
☒	5.470~5.725 GHz		11 dBm/MHz
☒	5.725~5.85 GHz		30 dBm/500kHz

11.2. Test Procedure

Reference to KDB789033 v02r01 General UNII Test Procedures New Rules.

11.3. Test Setup Layout



11.4. Test Result and Data

SISO-ANT A

In the 5.2G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	36	5180	3.777	0.00	3.777	10.49
11a	44	5220	4.097	0.00	4.097	10.49
11a	48	5240	4.177	0.00	4.177	10.49

In the 5.3G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	52	5260	4.084	0.00	4.084	10.49
11a	60	5300	4.356	0.00	4.356	10.49
11a	64	5320	4.662	0.00	4.662	10.49

In the 5.5G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	100	5500	3.408	0.00	3.408	11.00
11a	116	5580	2.787	0.00	2.787	11.00
11a	140	5700	2.036	0.00	2.036	11.00

In the 5.8G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	10log (500KHz/RBW) CF (dB)	Total Corr'd PPSD (dBm/500kHz)	PPSD Limit (dBm/500kHz)
11a	149	5745	1.316	0.00	-3.010	-1.69	30.00
11a	157	5785	2.969	0.00	-3.010	-0.04	30.00
11a	165	5825	3.905	0.00	-3.010	0.89	30.00

SISO-ANT B

In the 5.2G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	36	5180	4.097	0.00	4.097	10.72
11a	44	5220	4.495	0.00	4.495	10.72
11a	48	5240	4.875	0.00	4.875	10.72

In the 5.3G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	52	5260	5.923	0.00	5.923	10.70
11a	60	5300	5.270	0.00	5.270	10.70
11a	64	5320	5.450	0.00	5.450	10.70

In the 5.5G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	100	5500	5.257	0.00	5.257	10.74
11a	116	5580	4.976	0.00	4.976	10.74
11a	140	5700	3.676	0.00	3.676	10.74

In the 5.8G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	10log (500KHz/RBW) CF (dB)	Total Corr'd PPSD (dBm/500kHz)	PPSD Limit (dBm/500kHz)
11a	149	5745	2.326	0.00	-3.010	-0.68	29.84
11a	157	5785	2.423	0.00	-3.010	-0.59	29.84
11a	165	5825	2.922	0.00	-3.010	-0.09	29.84

MIMO

In the 5.2G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
			ANT A	ANT B				
11ac VHT20	36	5180	3.136	4.197	6.709	0.00	6.709	7.59
11ac VHT20	44	5220	3.324	4.278	6.837	0.00	6.837	7.59
11ac VHT20	48	5240	3.919	4.711	7.343	0.00	7.343	7.59
11ac VHT40	38	5190	-1.638	-0.304	2.090	0.00	2.090	7.59
11ac VHT40	46	5230	-0.804	0.088	2.675	0.00	2.675	7.59
11ac VHT80	42	5210	-7.032	-5.941	-3.442	0.61	-2.832	7.59
11ax HE20	36	5180	0.869	2.099	4.538	0.00	4.538	7.59
11ax HE20	44	5220	1.171	2.130	4.687	0.00	4.687	7.59
11ax HE20	48	5240	1.219	2.794	5.088	0.00	5.088	7.59
11ax HE40	38	5190	-4.939	-3.813	-1.329	0.00	-1.329	7.59
11ax HE40	46	5230	-4.753	-3.783	-1.231	0.00	-1.231	7.59
11ax HE80	42	5210	-7.999	-5.758	-3.725	0.00	-3.725	7.59

In the 5.3G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
			ANT A	ANT B				
11ac VHT20	52	5260	3.871	5.811	7.959	0.00	7.959	7.58
11ac VHT20	60	5300	4.332	5.343	7.877	0.00	7.877	7.58
11ac VHT20	64	5320	4.371	5.709	8.102	0.00	8.102	7.58
11ac VHT40	54	5270	-0.599	1.553	3.619	0.00	3.619	7.58
11ac VHT40	62	5310	-0.439	1.226	3.483	0.00	3.483	7.58
11ac VHT80	58	5290	-6.268	-3.873	-1.897	0.00	-1.897	7.58
11ax HE20	52	5260	1.411	3.635	5.674	0.00	5.674	7.58
11ax HE20	60	5300	1.950	3.180	5.619	0.00	5.619	7.58
11ax HE20	64	5320	1.673	3.435	5.653	0.00	5.653	7.58
11ax HE40	54	5270	-4.299	-2.060	-0.026	0.00	-0.026	7.58
11ax HE40	62	5310	-3.862	-2.290	0.005	0.00	0.005	7.58
11ax HE80	58	5290	-6.956	-3.648	-1.984	0.00	-1.984	7.58

In the 5.5G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
			ANT A	ANT B				
11ac VHT20	100	5500	2.790	5.413	7.307	0.00	7.307	8.02
11ac VHT20	116	5580	2.466	4.928	6.879	0.00	6.879	8.02
11ac VHT20	140	5700	1.779	3.319	5.627	0.00	5.627	8.02
11ac VHT40	102	5510	-1.556	1.150	3.015	0.00	3.015	8.02
11ac VHT40	118	5590	-2.126	0.605	2.461	0.00	2.461	8.02
11ac VHT40	134	5670	-2.336	-0.459	1.713	0.00	1.713	8.02
11ac VHT80	106	5530	-7.700	-4.908	-3.073	0.00	-3.073	8.02
11ac VHT80	122	5610	-7.634	-5.444	-3.392	0.00	-3.392	8.02
11ax HE20	100	5500	0.719	3.326	5.226	0.00	5.226	8.02
11ax HE20	116	5580	0.078	2.191	4.272	0.00	4.272	8.02
11ax HE20	140	5700	-0.598	1.148	3.372	0.00	3.372	8.02
11ax HE40	102	5510	-5.793	-3.003	-1.167	0.00	-1.167	8.02
11ax HE40	118	5590	-5.908	-3.061	-1.245	0.00	-1.245	8.02
11ax HE40	134	5670	-6.237	-4.514	-2.280	0.00	-2.280	8.02
11ax HE80	106	5530	-8.505	-4.987	-3.389	0.00	-3.389	8.02
11ax HE80	122	5610	-8.184	-4.903	-3.230	0.00	-3.230	8.02

In the 5.8G Band

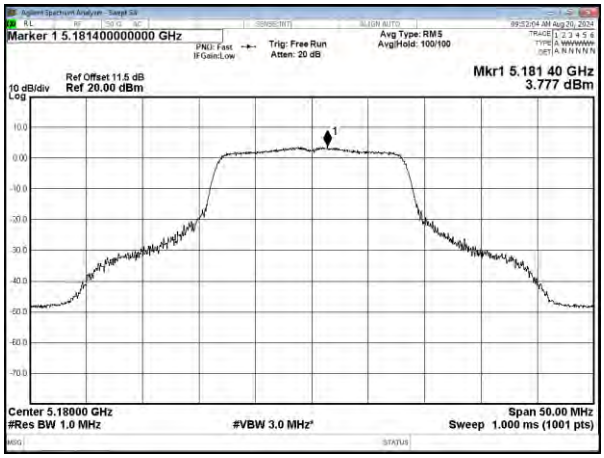
Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	10log(500KHz/RBW) CF (dB)	Total Corr'd PPSD (dBm/500kHz)	PPSD Limit (dBm/500kHz)
			ANT A	ANT B					
11ac VHT20	149	5745	1.062	3.162	5.248	0.00	-3.010	2.24	27.10
11ac VHT20	157	5785	2.609	2.368	5.500	0.00	-3.010	2.49	27.10
11ac VHT20	165	5825	3.463	3.325	6.405	0.00	-3.010	3.39	27.10
11ac VHT40	151	5755	-3.326	-1.447	0.725	0.00	-3.010	-2.29	27.10
11ac VHT40	159	5795	-1.856	-1.793	1.186	0.00	-3.010	-1.82	27.10
11ac VHT80	155	5775	-8.377	-8.041	-5.195	0.00	-3.010	-8.21	27.10
11ax HE20	149	5745	-0.655	0.483	2.961	0.00	-3.010	-0.05	27.10
11ax HE20	157	5785	0.059	0.448	3.268	0.00	-3.010	0.26	27.10
11ax HE20	165	5825	1.325	0.854	4.106	0.00	-3.010	1.10	27.10
11ax HE40	151	5755	-6.706	-5.582	-3.097	0.00	-3.010	-6.11	27.10
11ax HE40	159	5795	-6.242	-5.705	-2.955	0.00	-3.010	-5.97	27.10
11ax HE80	155	5775	-8.706	-3.495	-2.351	0.00	-3.010	-5.36	27.10

UNII-1

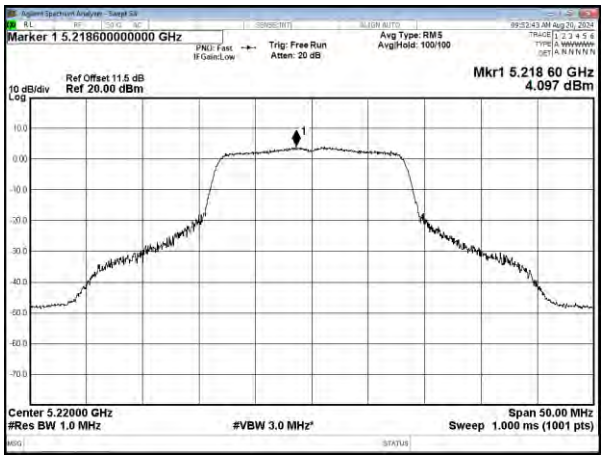
SISO-ANT A

Modulation Standard: 802.11a

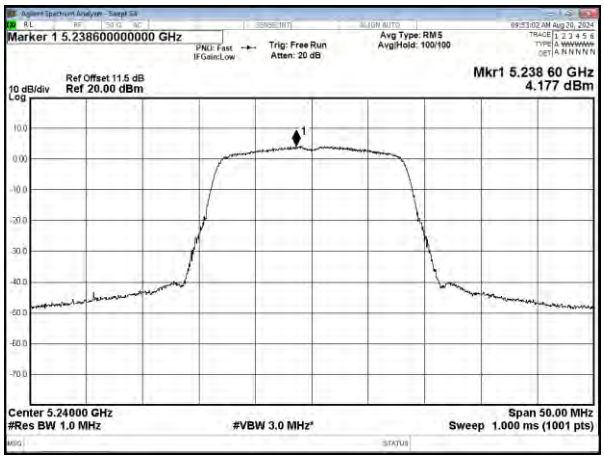
CH36



CH44



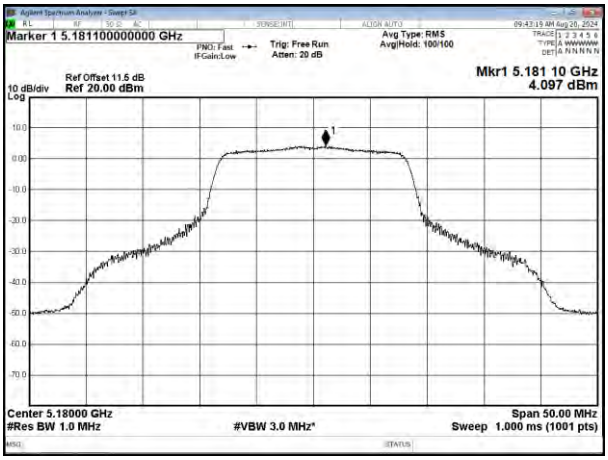
CH48



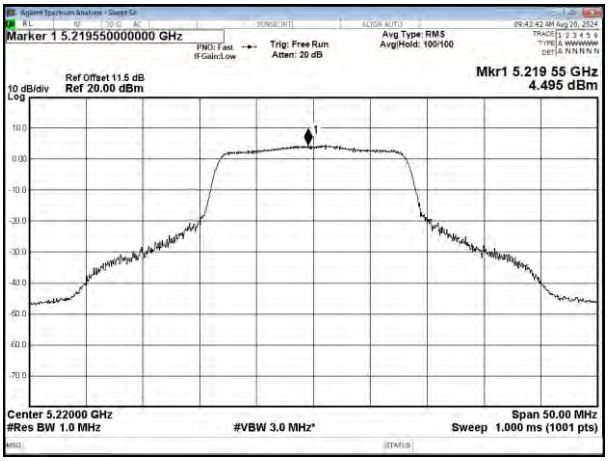
SISO-ANT B

Modulation Standard: 802.11a

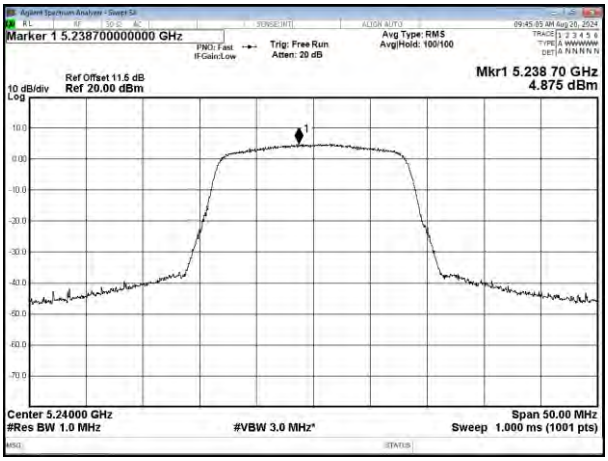
CH36



CH44

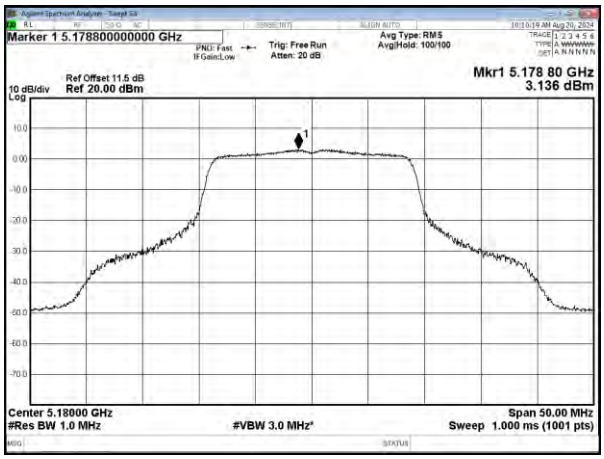


CH48

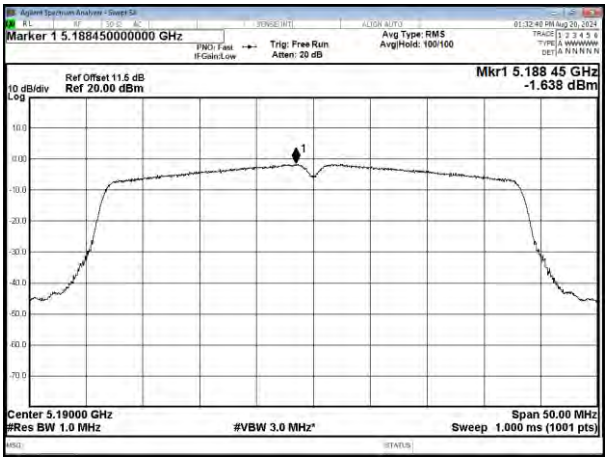


MIMO-ANT A

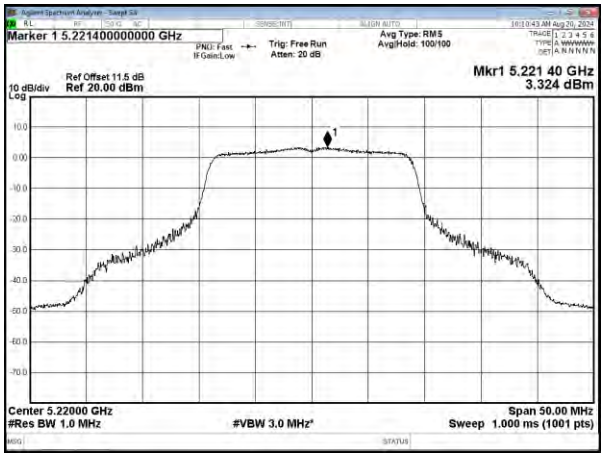
Modulation Standard: 802.11ac VHT20
CH36



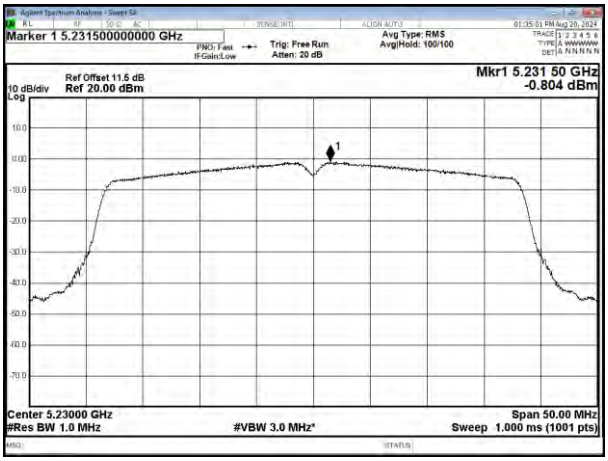
Modulation Standard: 802.11ac VHT40
CH38



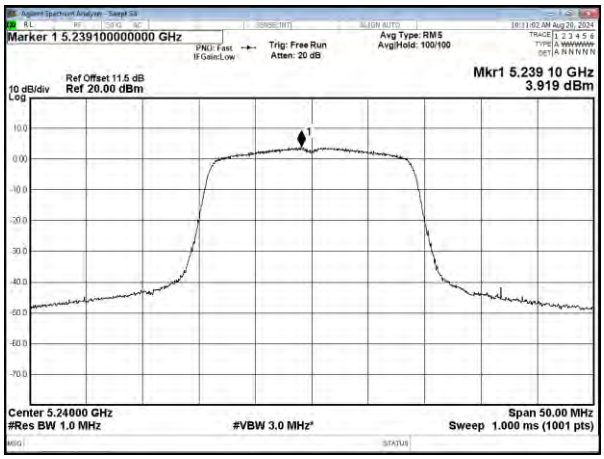
CH44



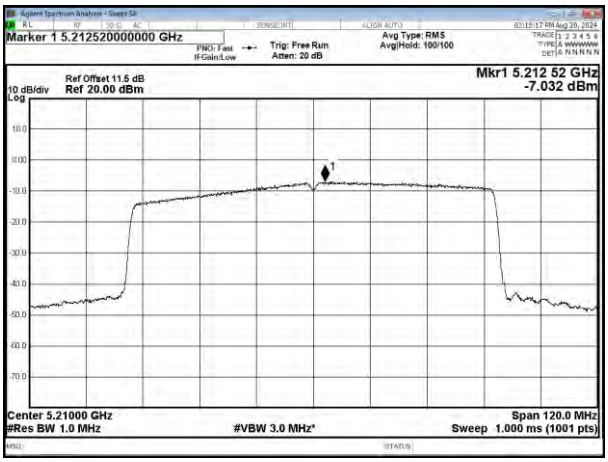
CH46



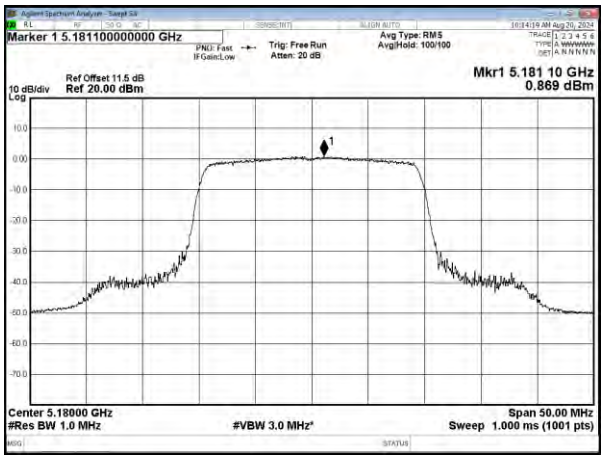
CH48



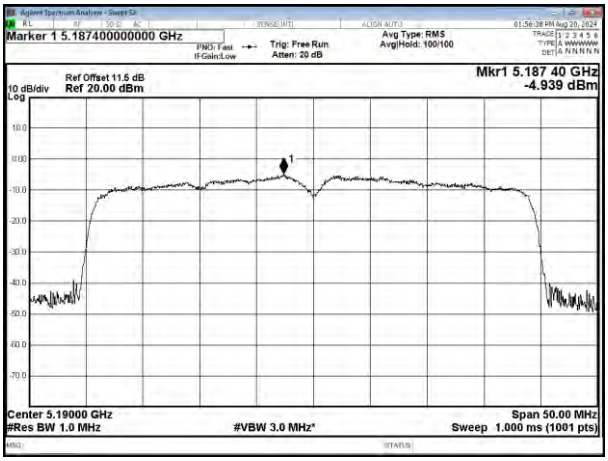
Modulation Standard: 802.11ac VHT80
CH42



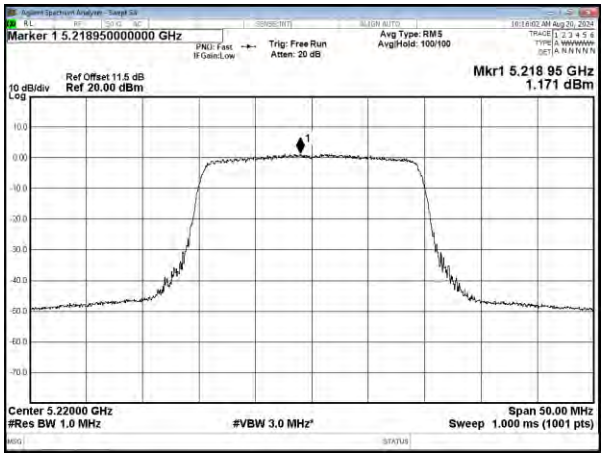
Modulation Standard: 802.11 ax HE20
CH36



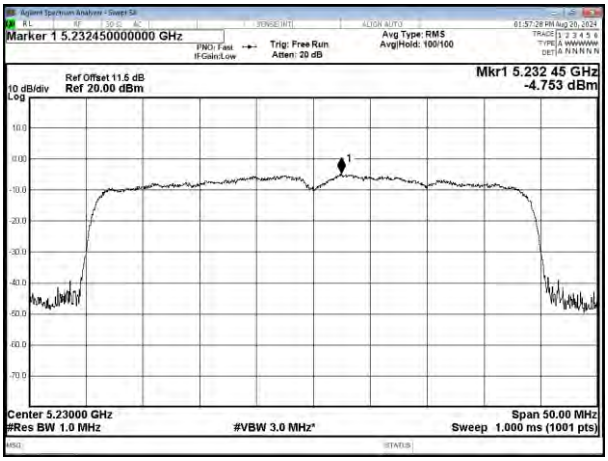
Modulation Standard: 802.11 ax HE40
CH38



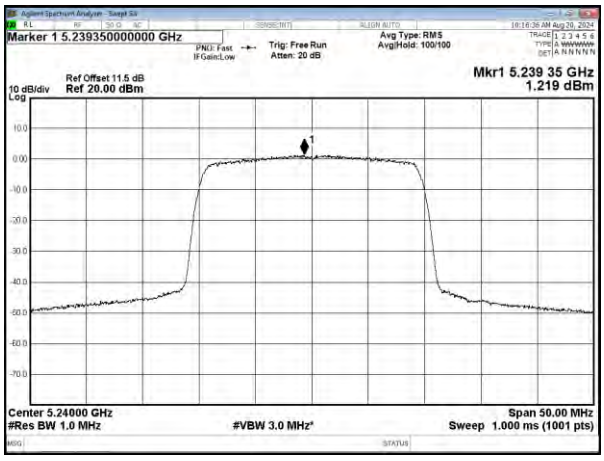
CH44



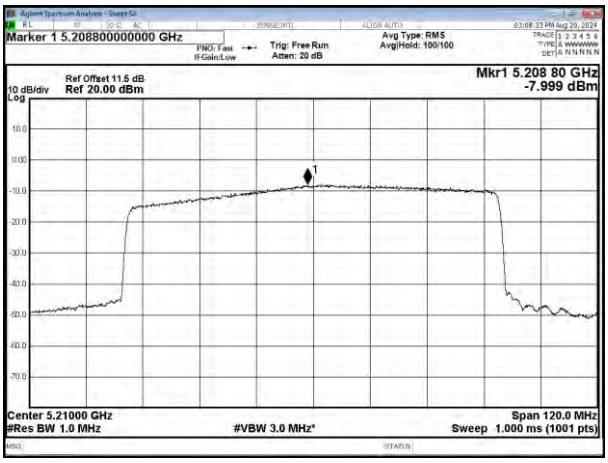
CH46



CH48

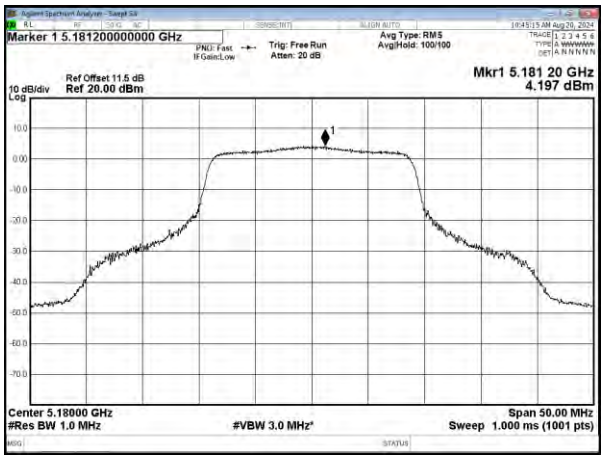


Modulation Standard: 802.11 ax HE80
CH42

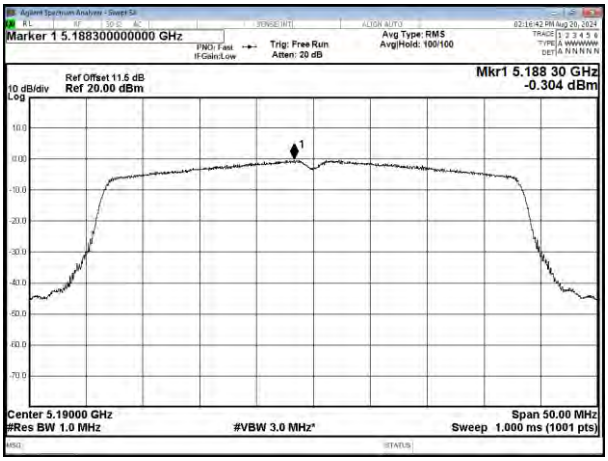


MIMO-ANT B

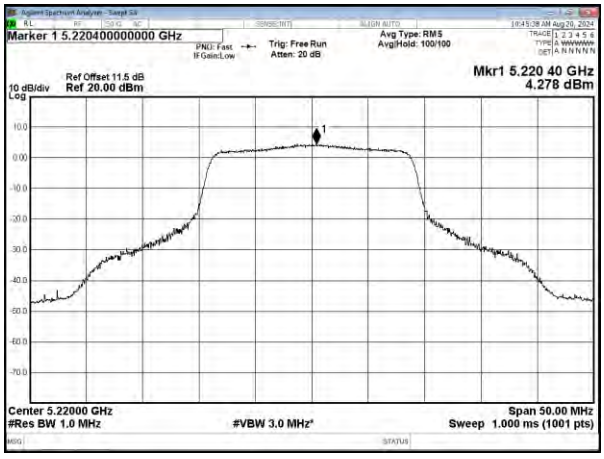
Modulation Standard: 802.11ac VHT20
CH36



Modulation Standard: 802.11ac VHT40
CH38



CH44



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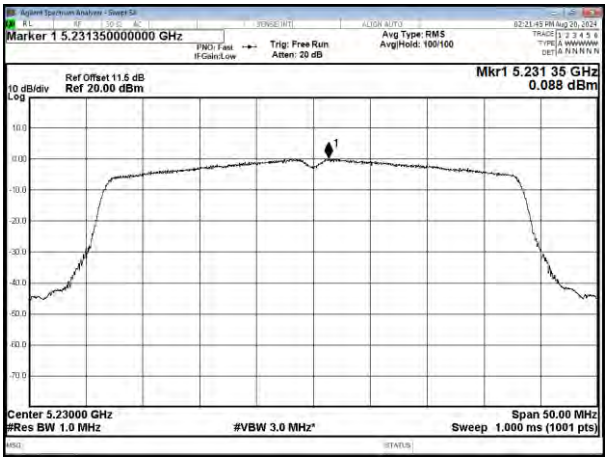
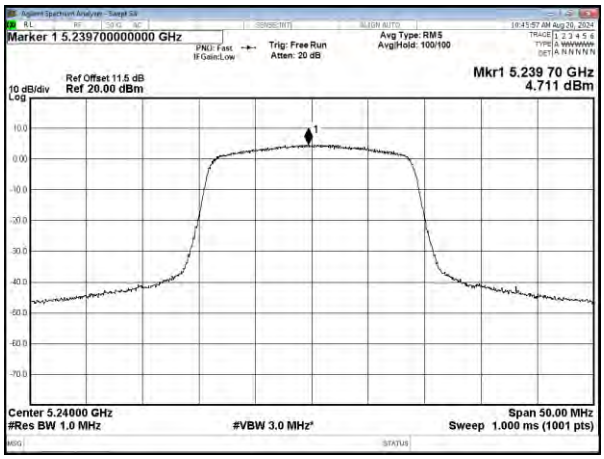
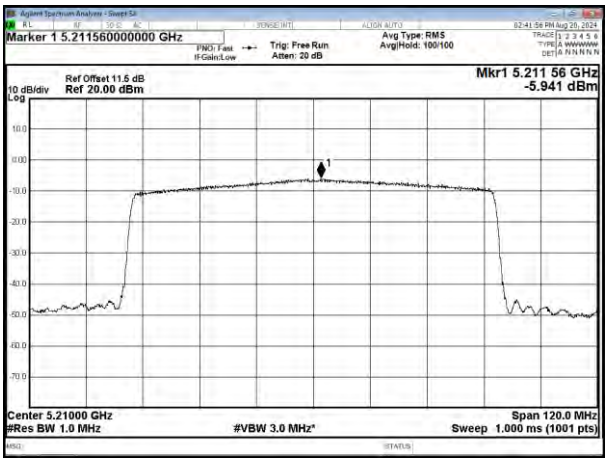


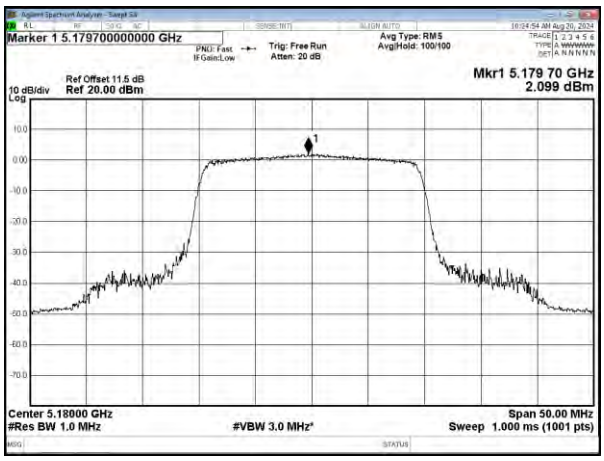
CH48



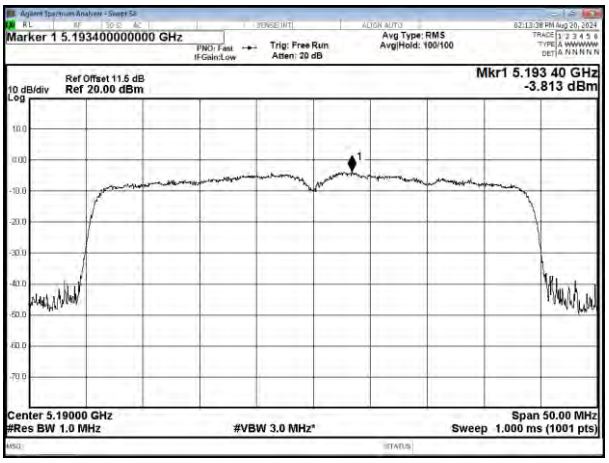
Modulation Standard: 802.11ac VHT80
CH42



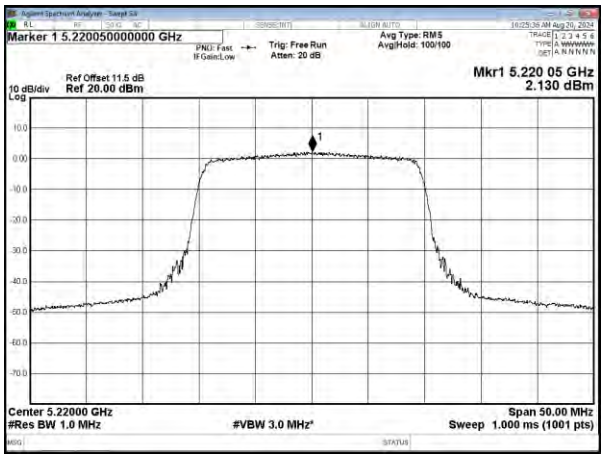
Modulation Standard: 802.11 ax HE20
CH36



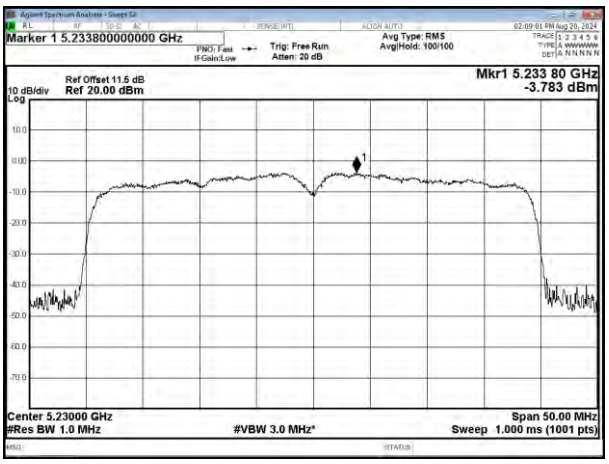
Modulation Standard: 802.11 ax HE40
CH38



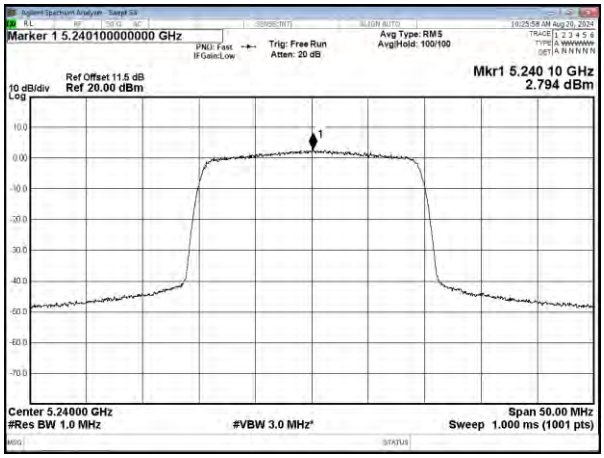
CH44



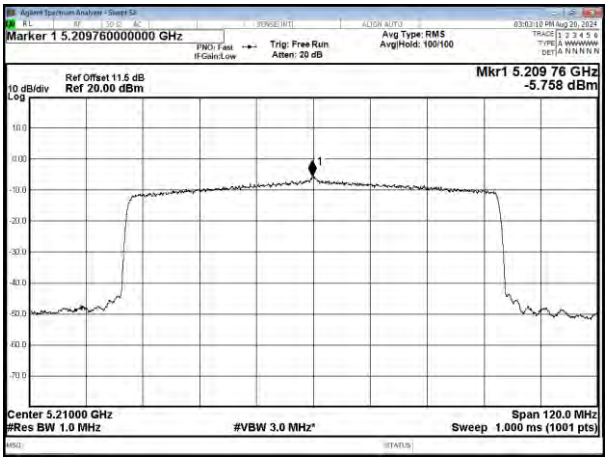
CH46



CH48



Modulation Standard: 802.11 ax HE80
CH42

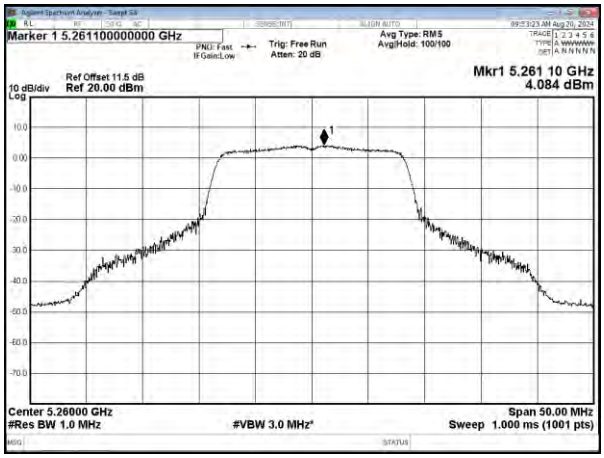


UNII-2A

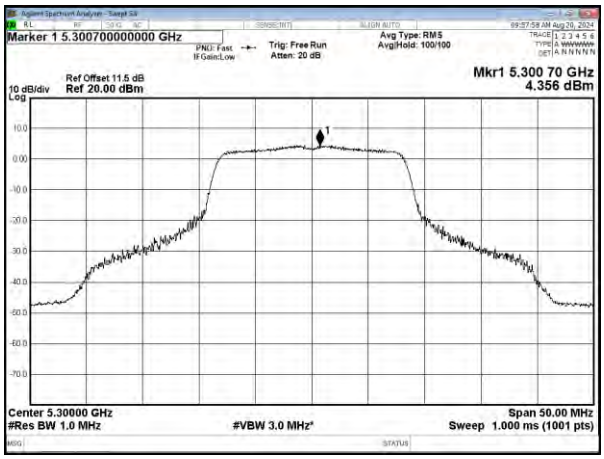
SISO-ANT A

Modulation Standard: 802.11a

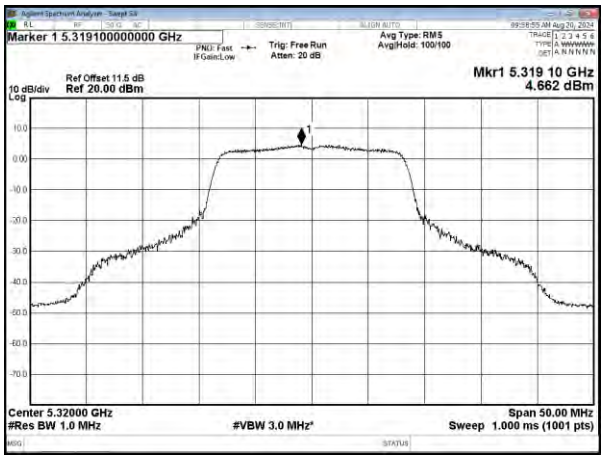
CH52



CH60



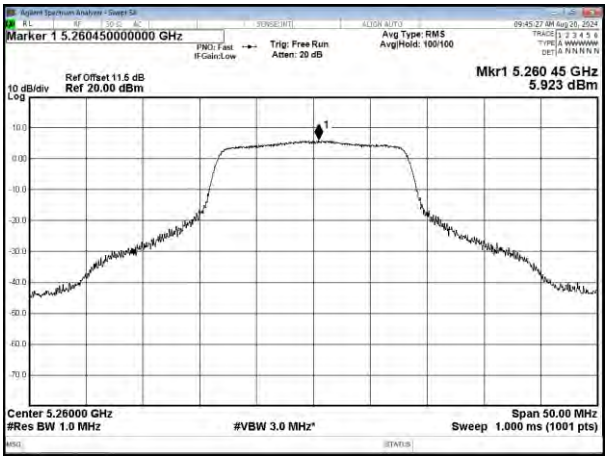
CH64



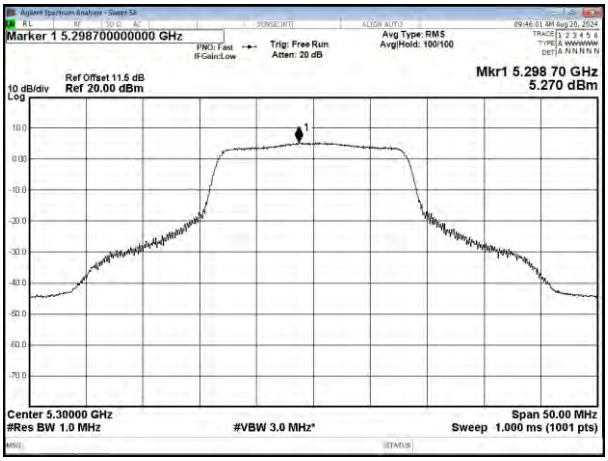
SISO-ANT B

Modulation Standard: 802.11a

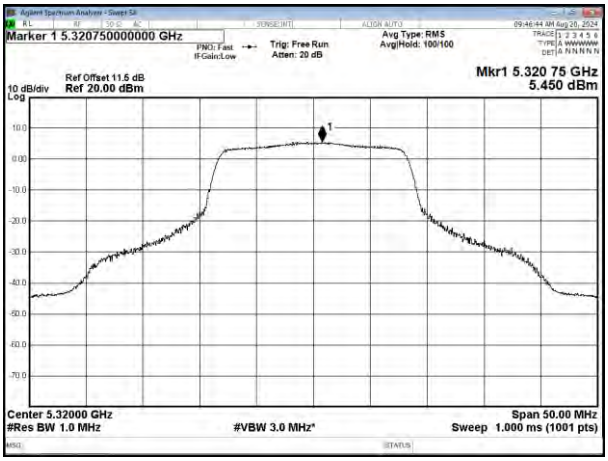
CH52



CH60



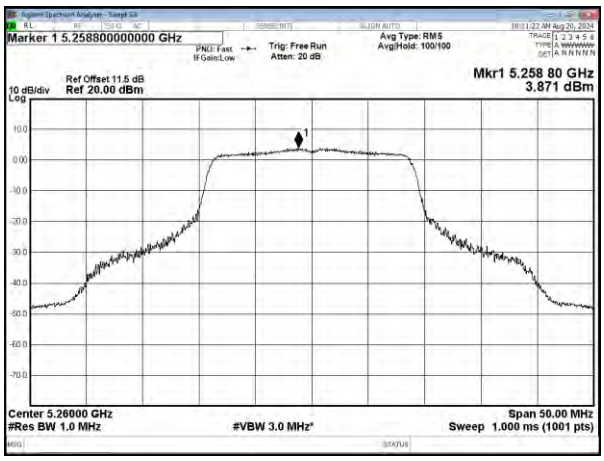
CH64



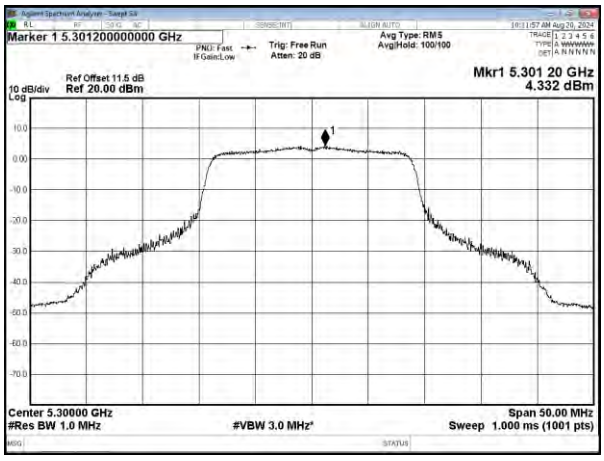
MIMO-ANT A

Modulation Standard: 802.11ac VHT20

CH52



CH60



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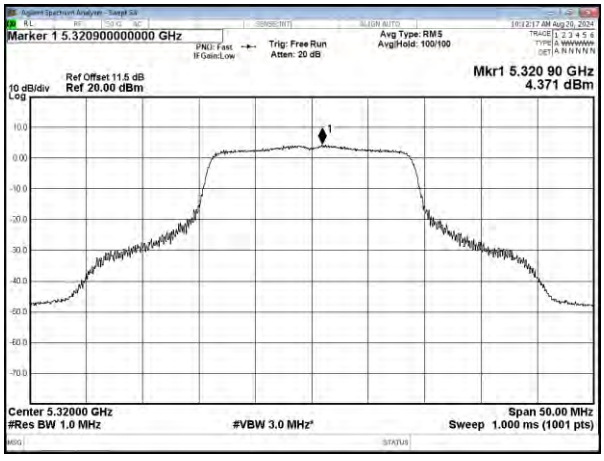
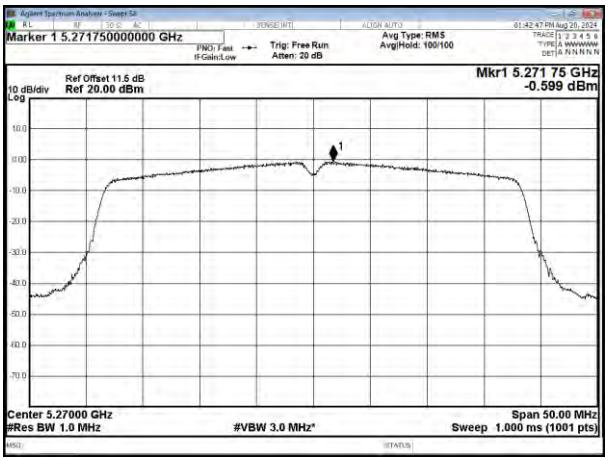
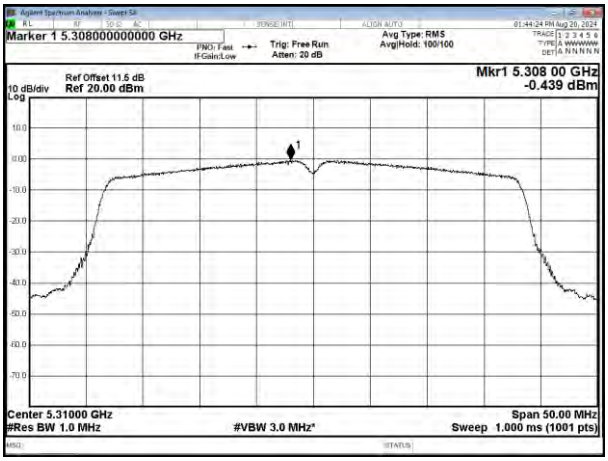


Modulation Standard: 802.11ac VHT40

CH54

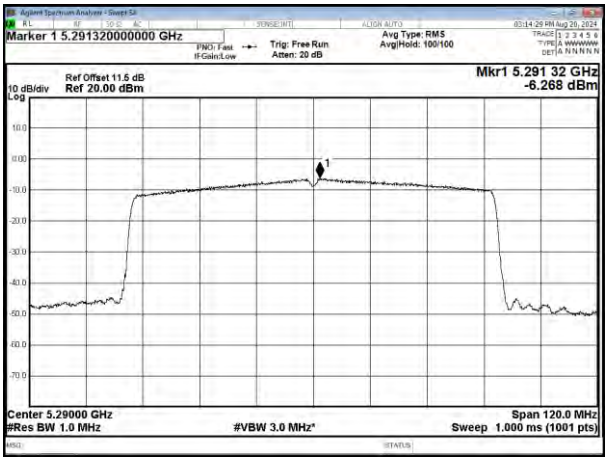


CH62



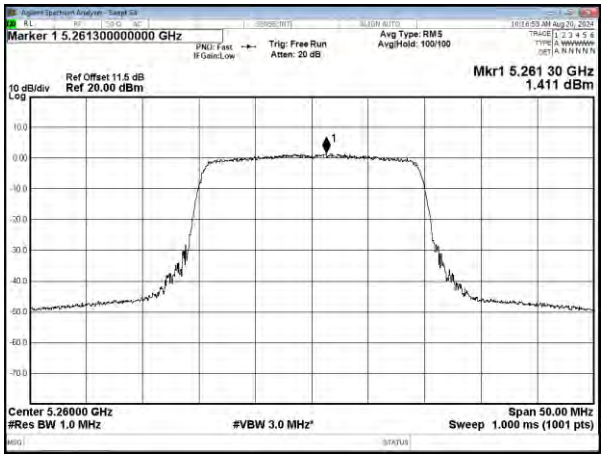
Modulation Standard: 802.11ac VHT80

CH58



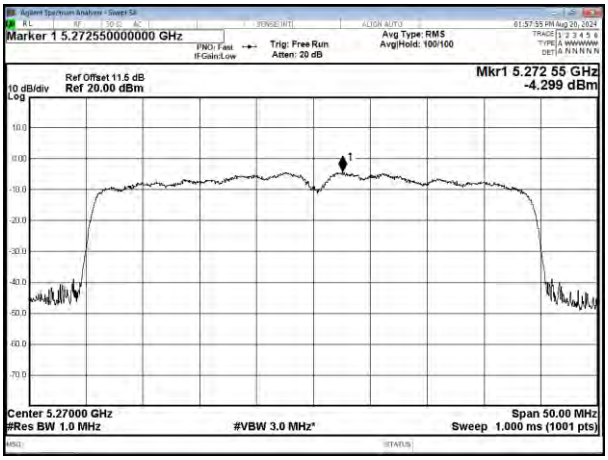
Modulation Standard: 802.11 ax HE20

CH52

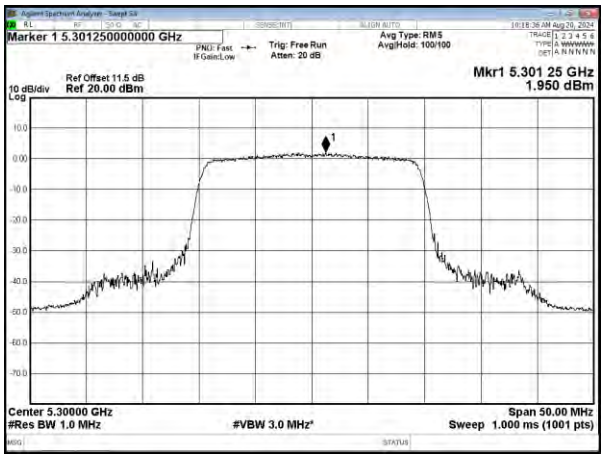


Modulation Standard: 802.11 ax HE40

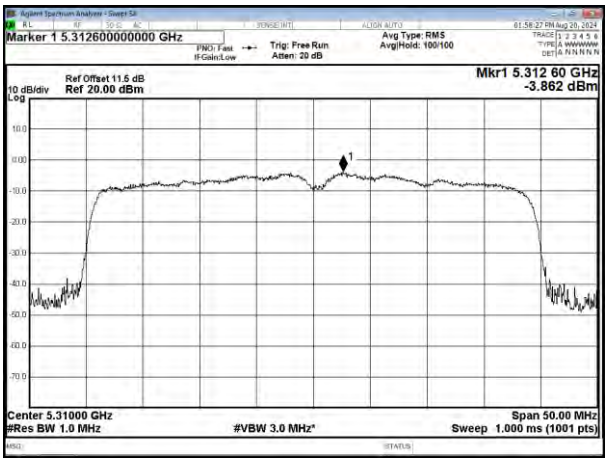
CH54



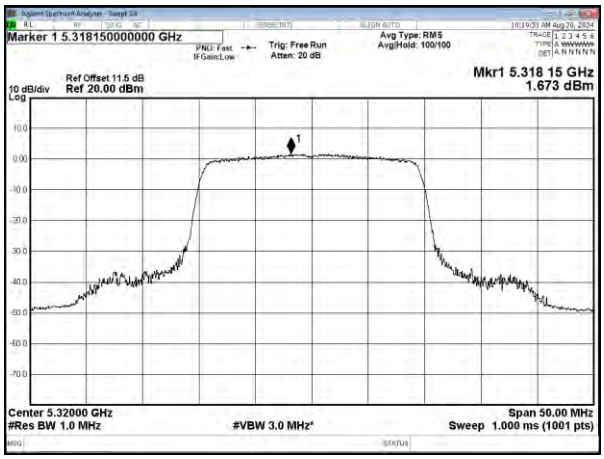
CH60



CH62

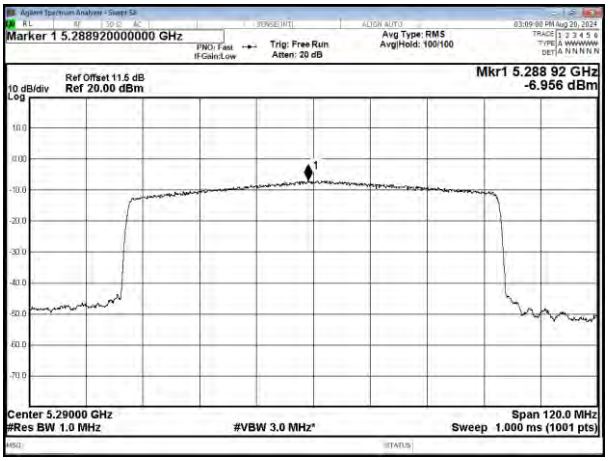


CH64



Modulation Standard: 802.11 ax HE80

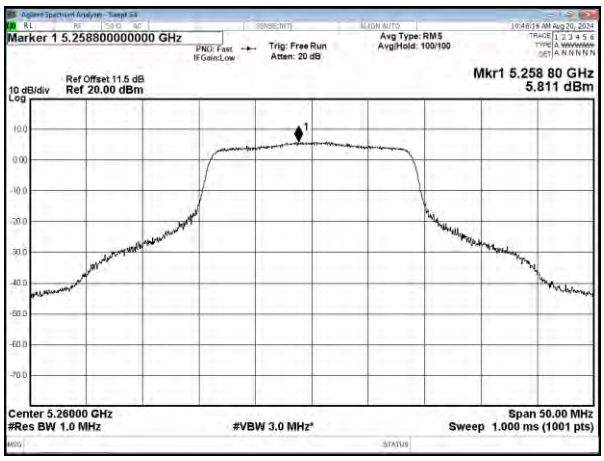
CH58



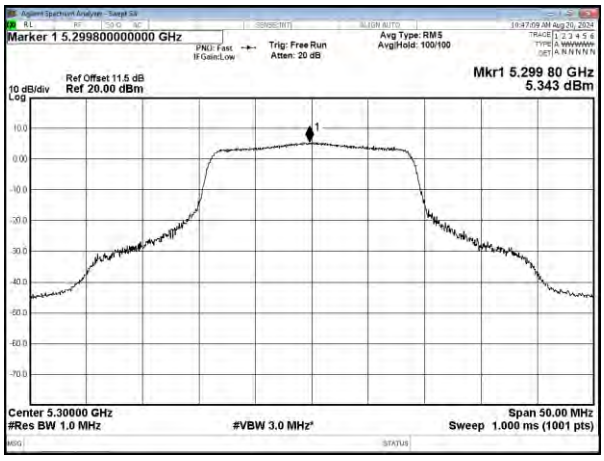
MIMO-ANT B

Modulation Standard: 802.11ac VHT20

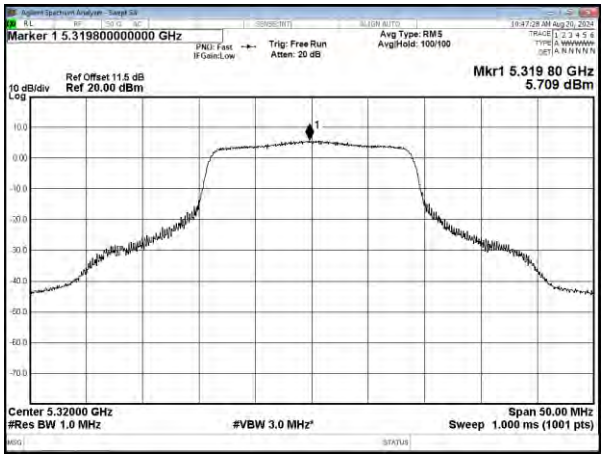
CH52



CH60

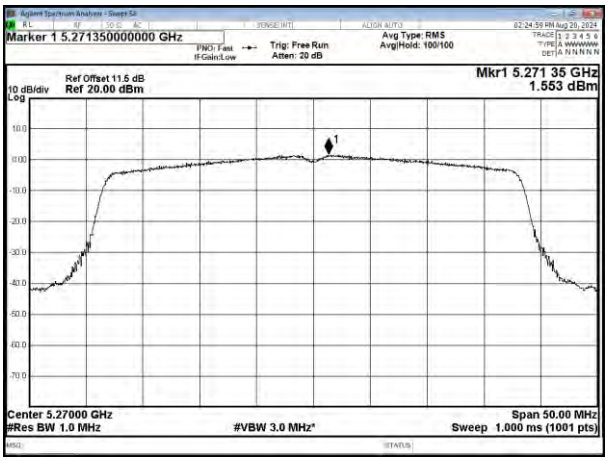


CH64

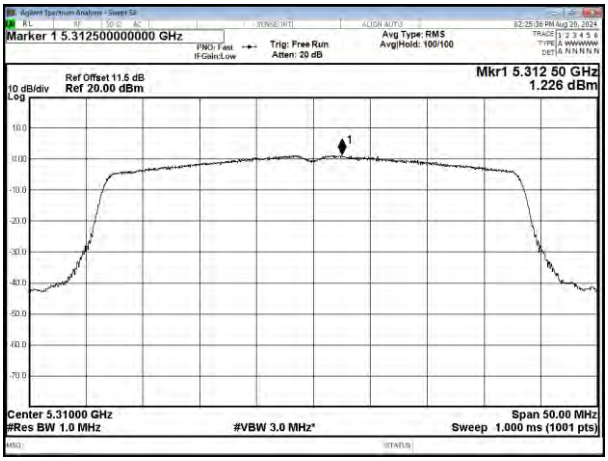


Modulation Standard: 802.11ac VHT40

CH54

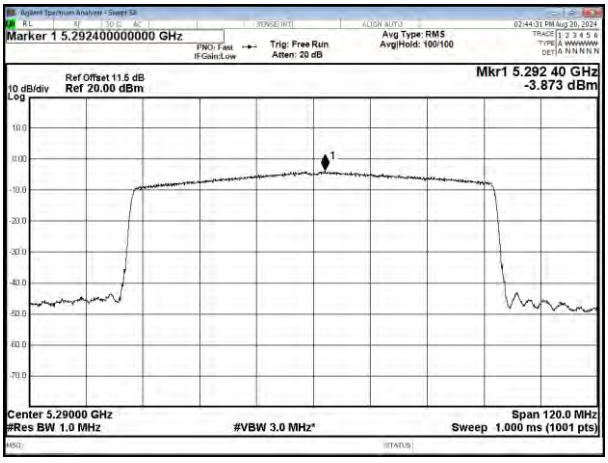


CH62



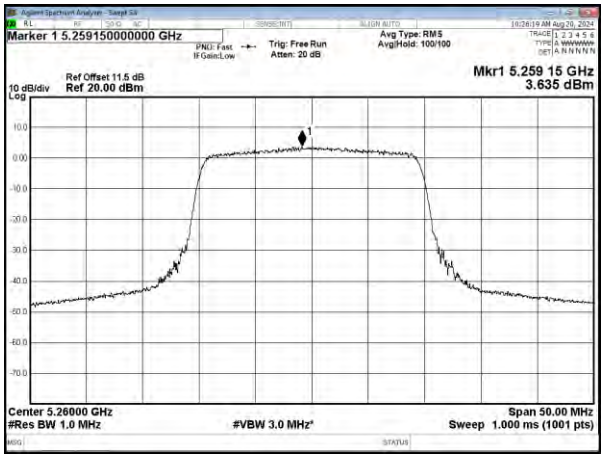
Modulation Standard: 802.11ac VHT80

CH58



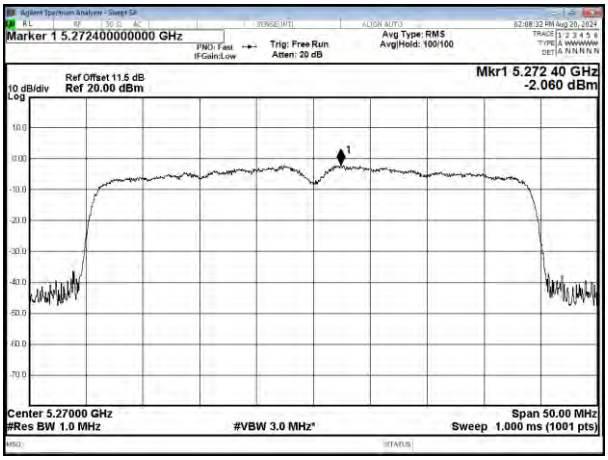
Modulation Standard: 802.11 ax HE20

CH52

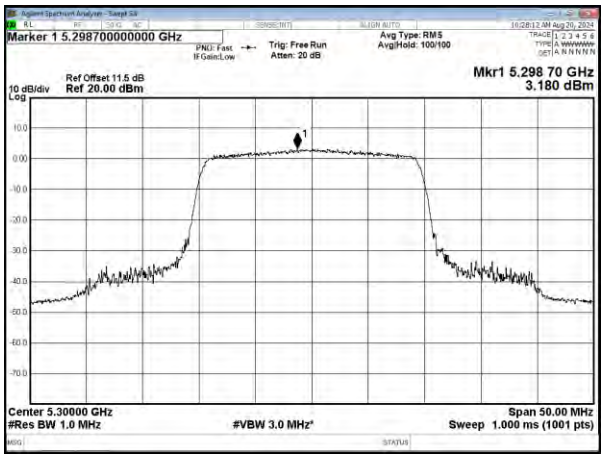


Modulation Standard: 802.11 ax HE40

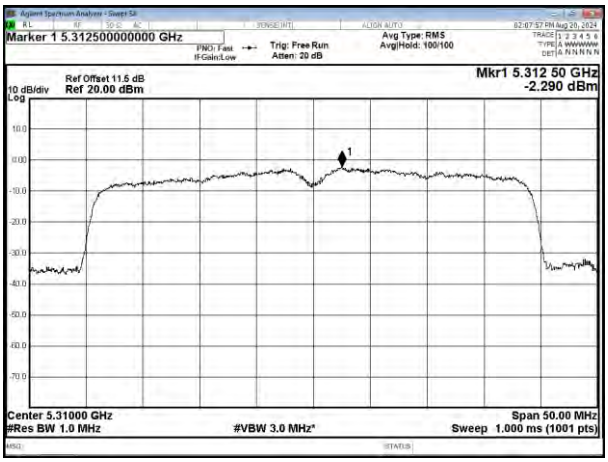
CH54



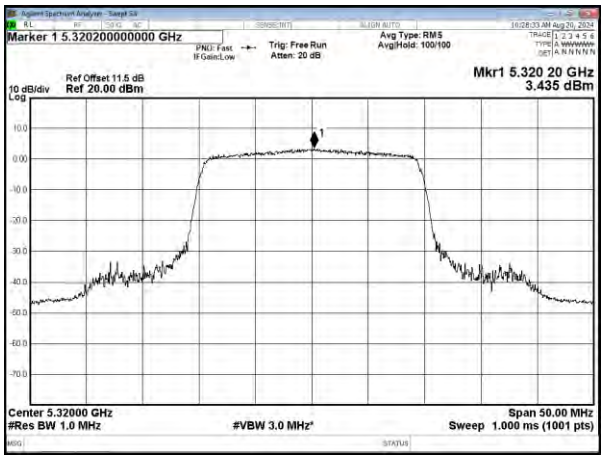
CH60



CH62

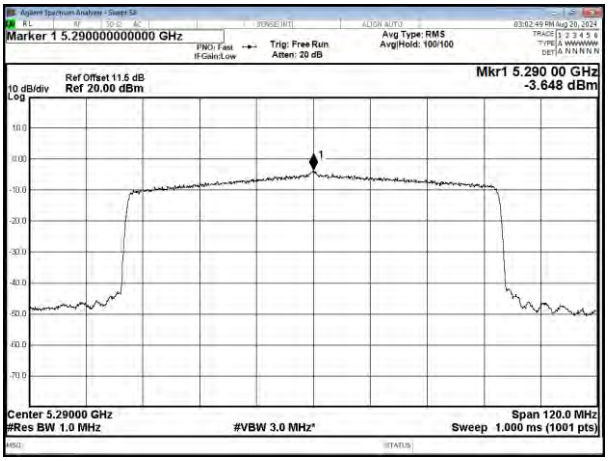


CH64



Modulation Standard: 802.11 ax HE80

CH58

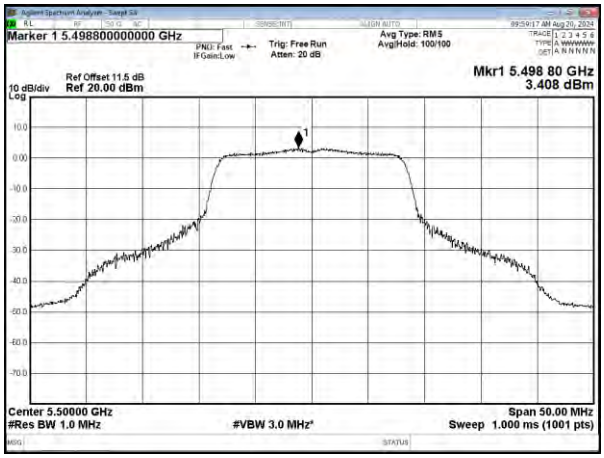


UNII-2C

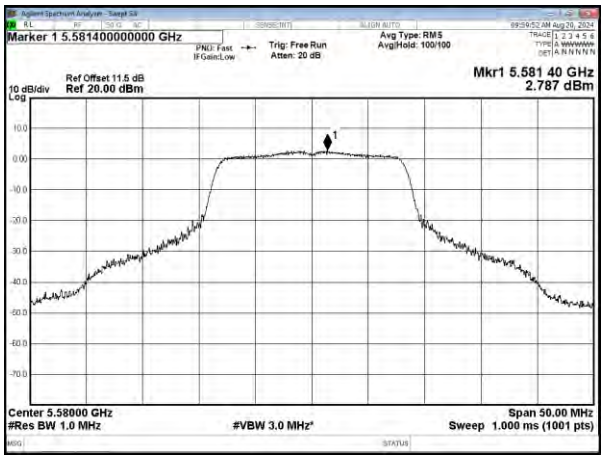
SISO-ANT A

Modulation Standard: 802.11a

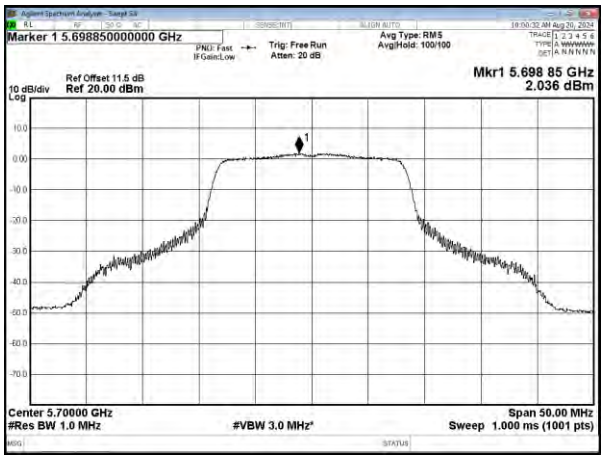
CH100



CH116



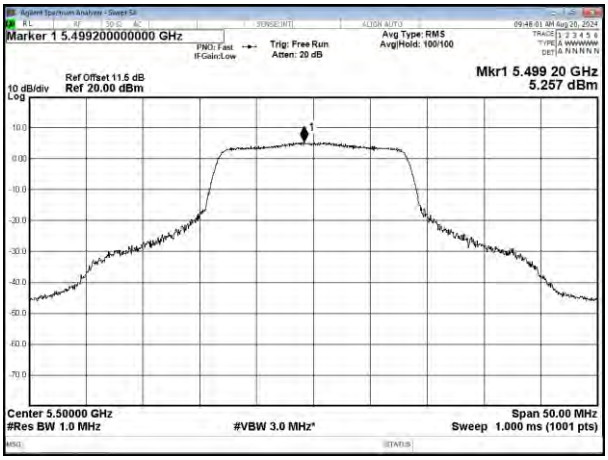
CH140



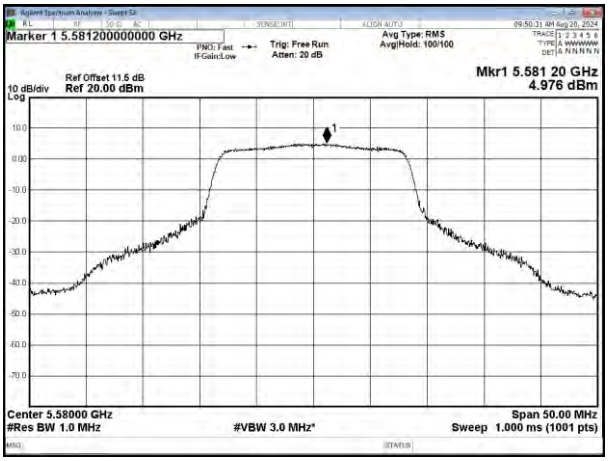
SISO-ANT B

Modulation Standard: 802.11a

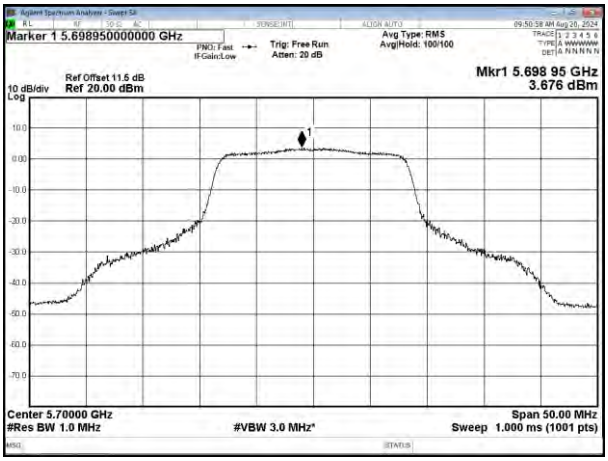
CH100



CH116



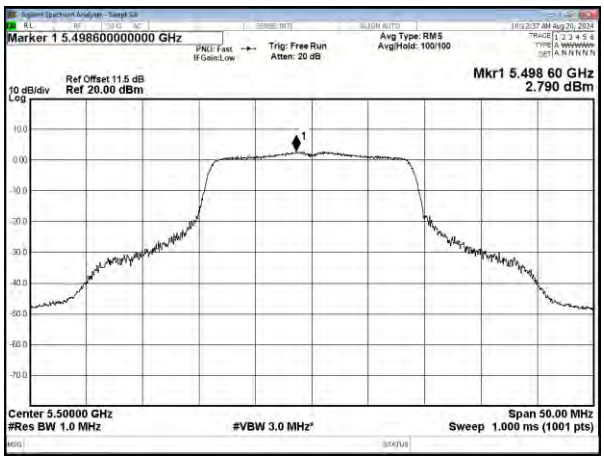
CH140



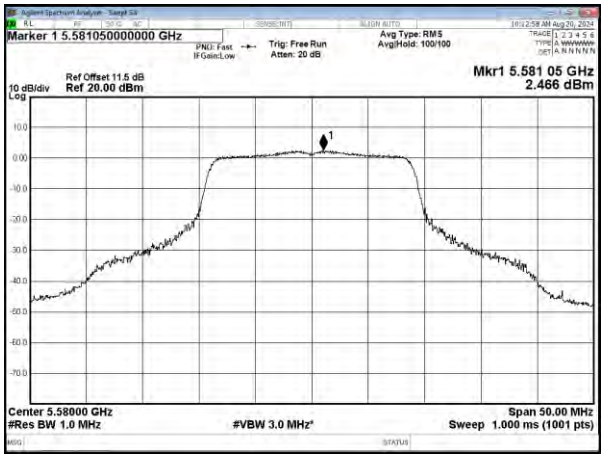
MIMO-ANT A

Modulation Standard: 802.11ac VHT20

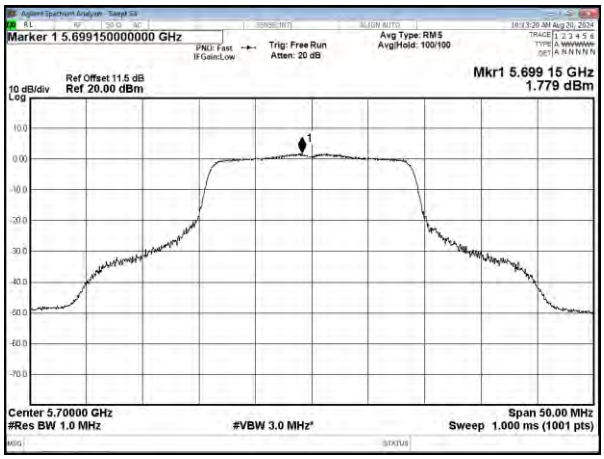
CH100



CH116

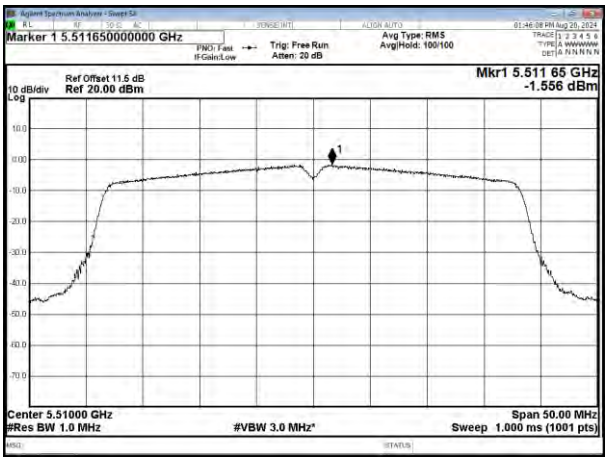


CH140

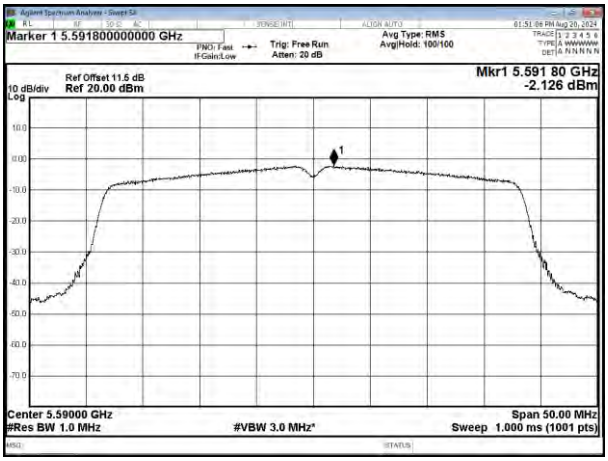


Modulation Standard: 802.11ac VHT40

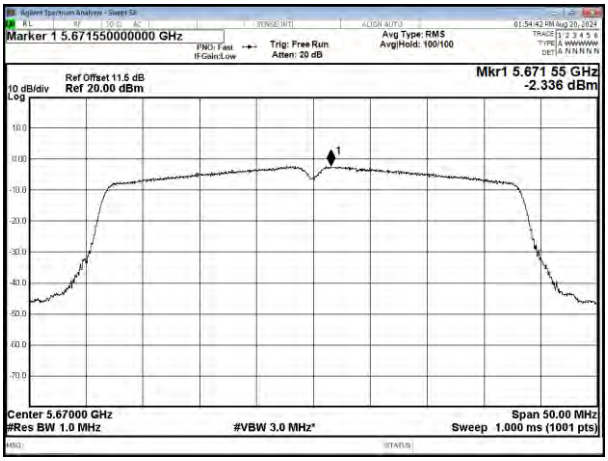
CH102



CH118

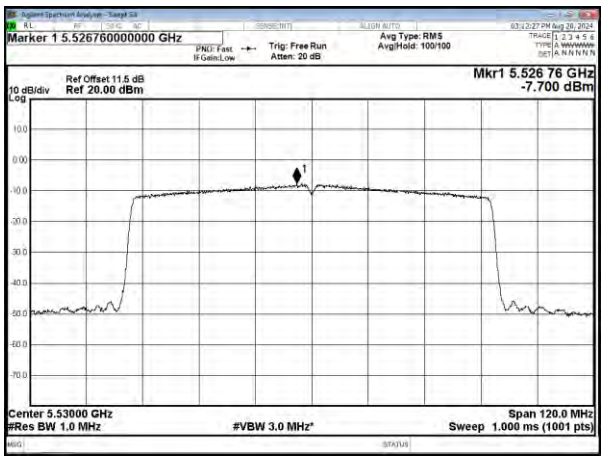


CH134

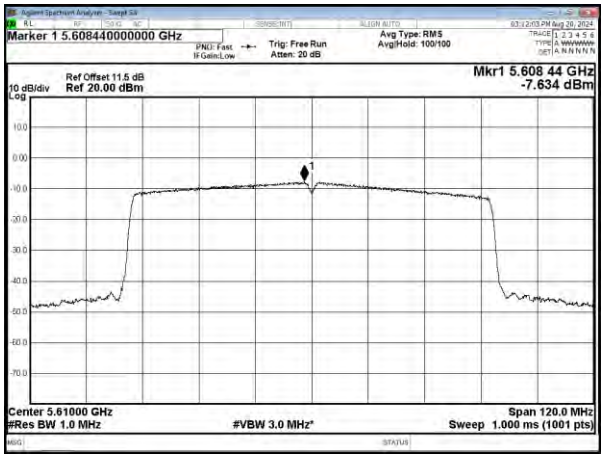


Modulation Standard: 802.11ac VHT80

CH106

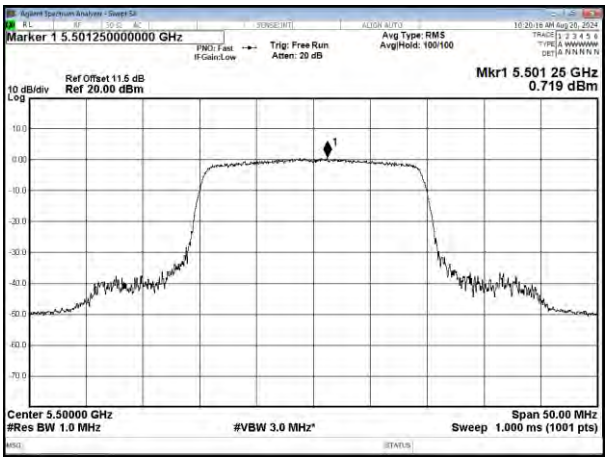


CH122

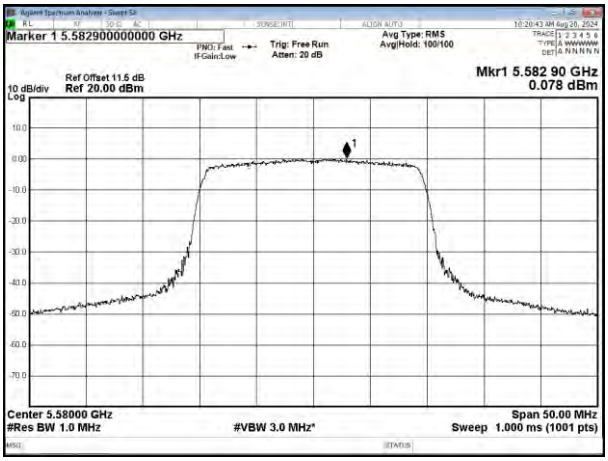


Modulation Standard: 802.11 ax HE20

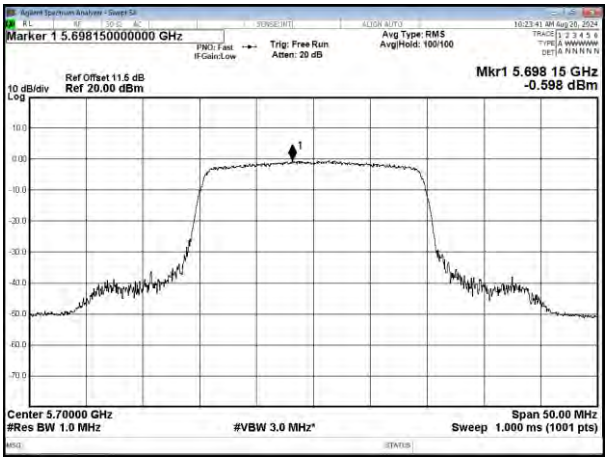
CH100



CH116

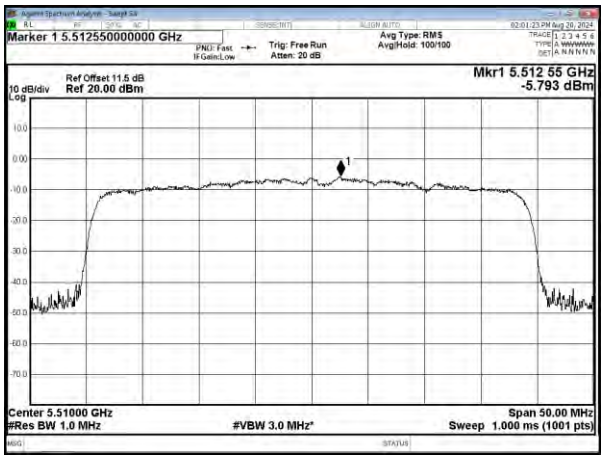


CH140



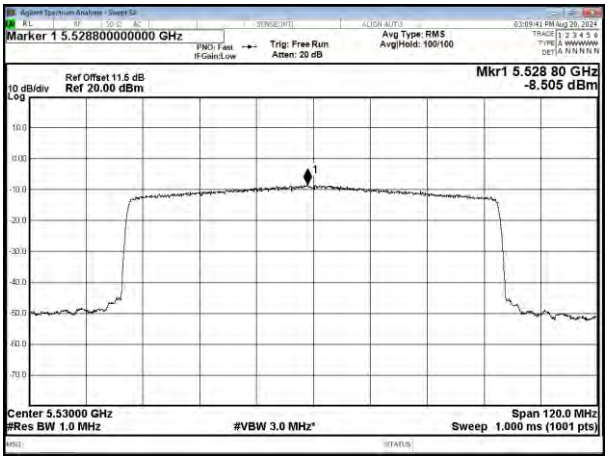
Modulation Standard: 802.11 ax HE40

CH102

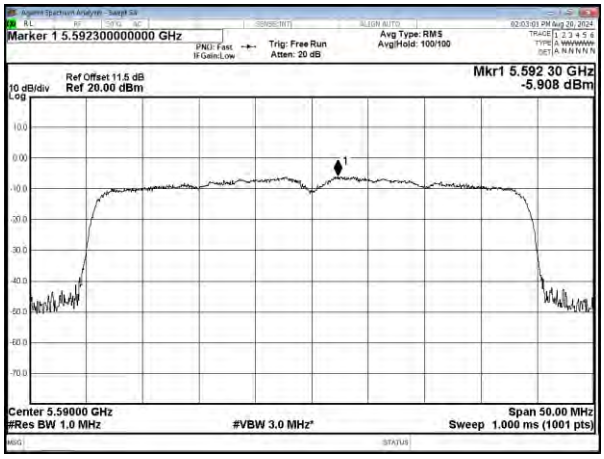


Modulation Standard: 802.11 ax HE80

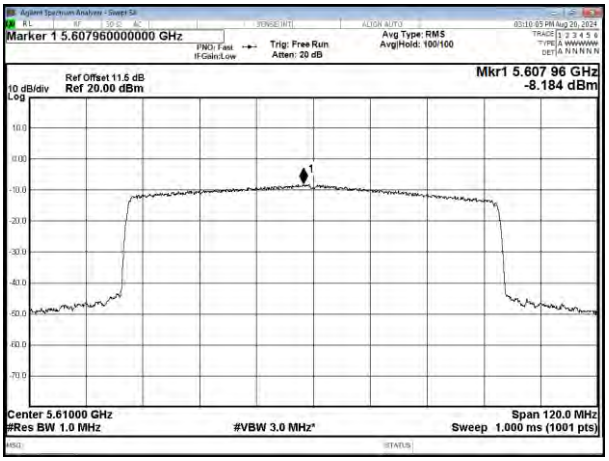
CH106



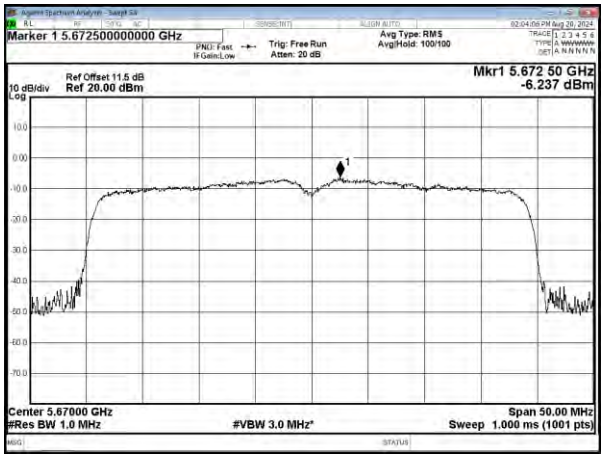
CH118



CH122



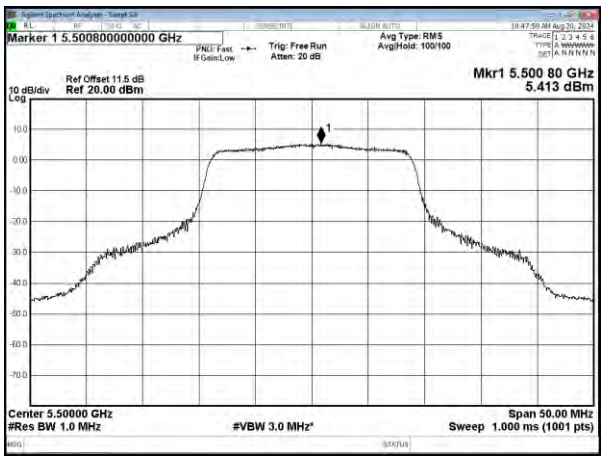
CH134



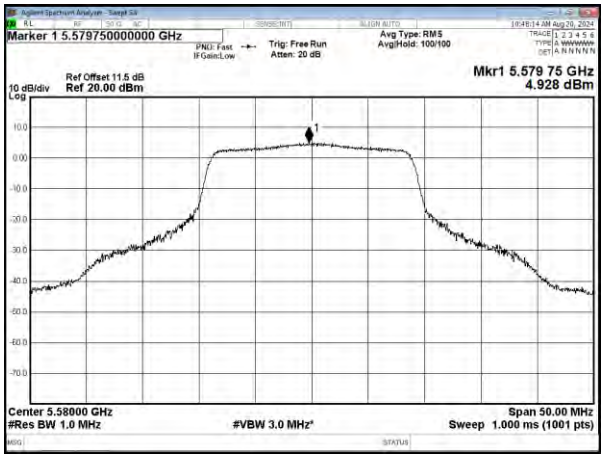
MIMO-ANT B

Modulation Standard: 802.11ac VHT20

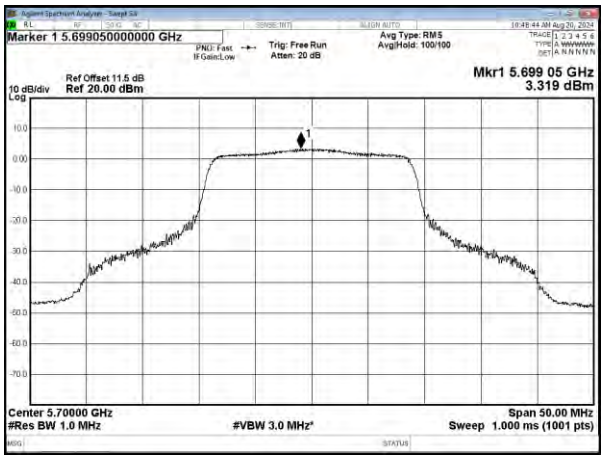
CH100



CH116

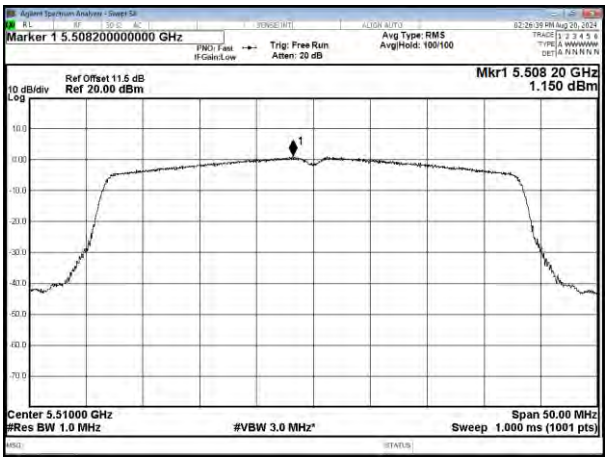


CH140

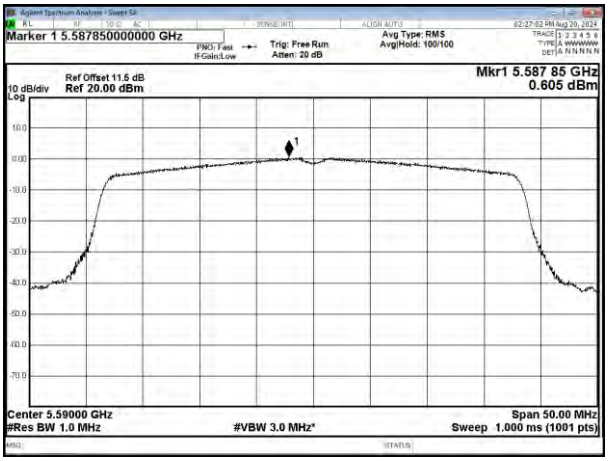


Modulation Standard: 802.11ac VHT40

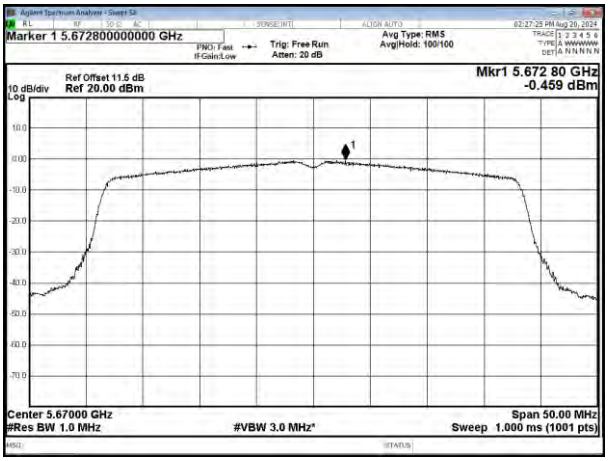
CH102



CH118

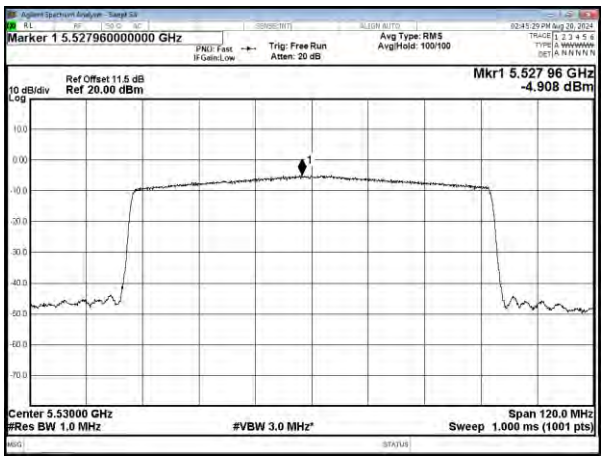


CH134

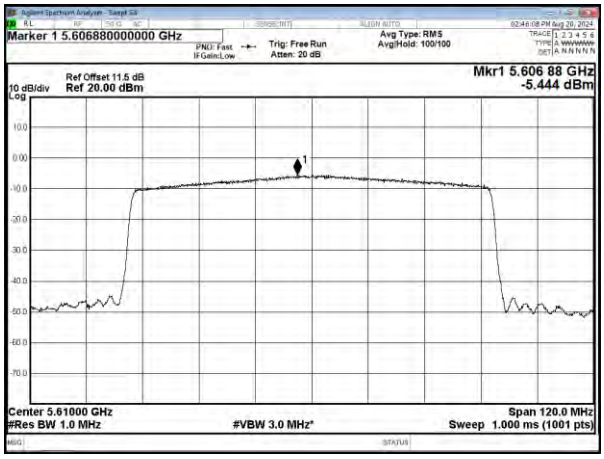


Modulation Standard: 802.11ac VHT80

CH106

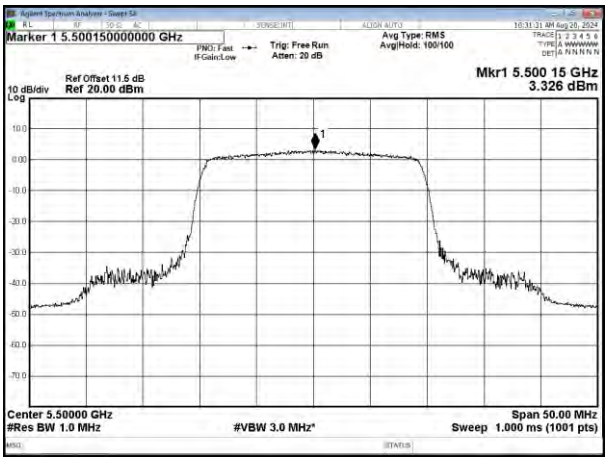


CH122

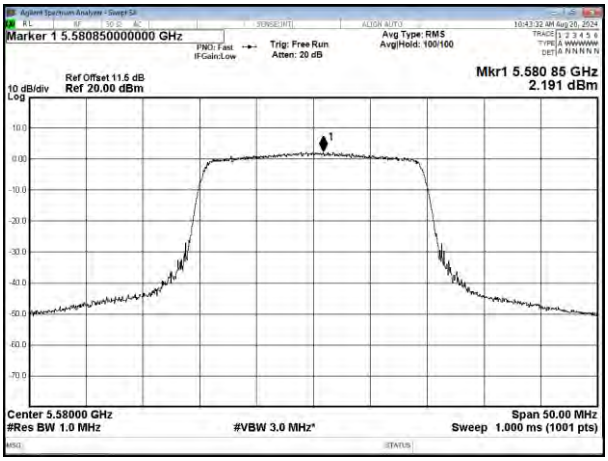


Modulation Standard: 802.11 ax HE20

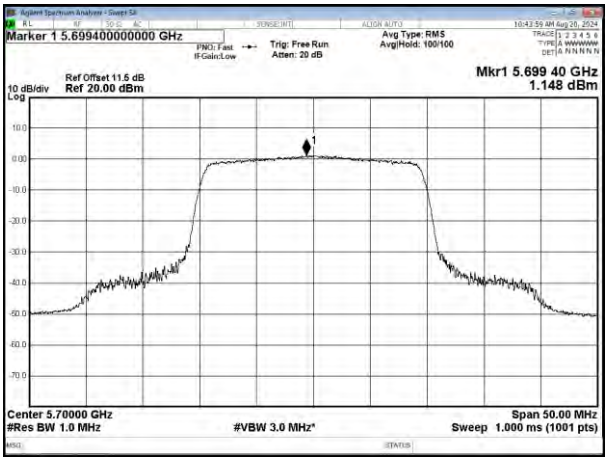
CH100



CH116

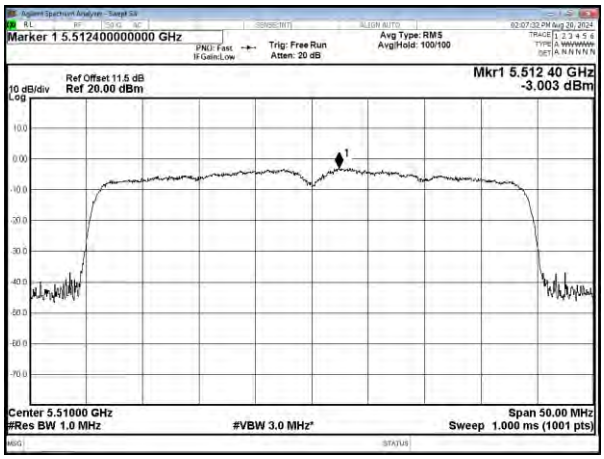


CH140



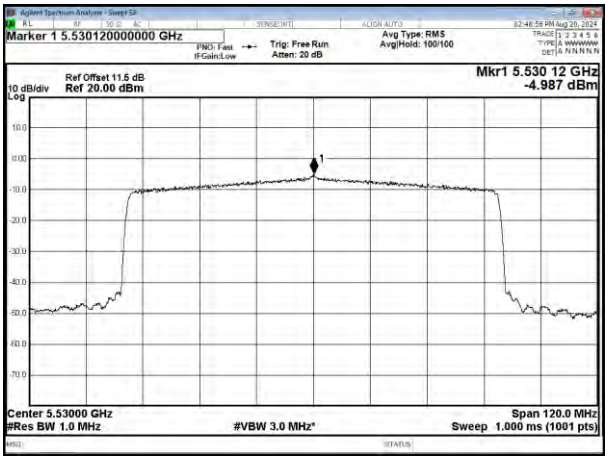
Modulation Standard: 802.11 ax HE40

CH102

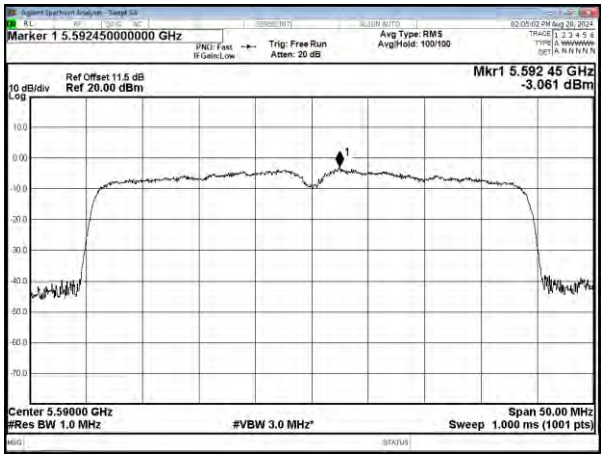


Modulation Standard: 802.11 ax HE80

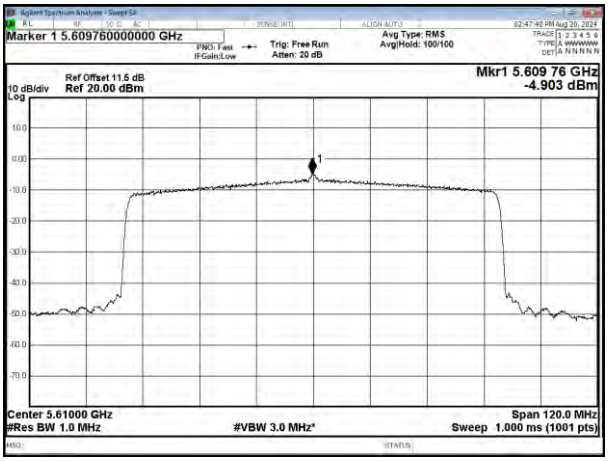
CH106



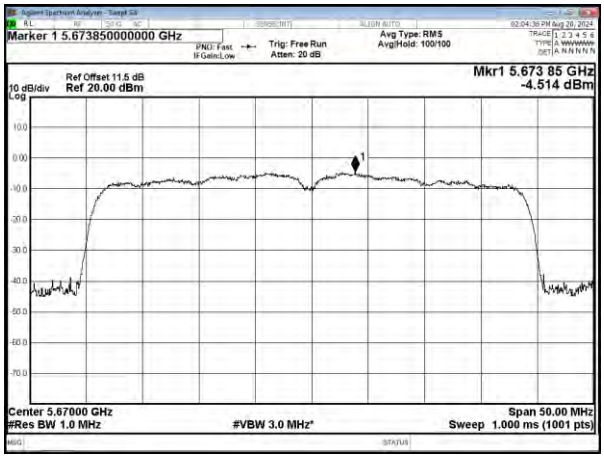
CH118



CH122

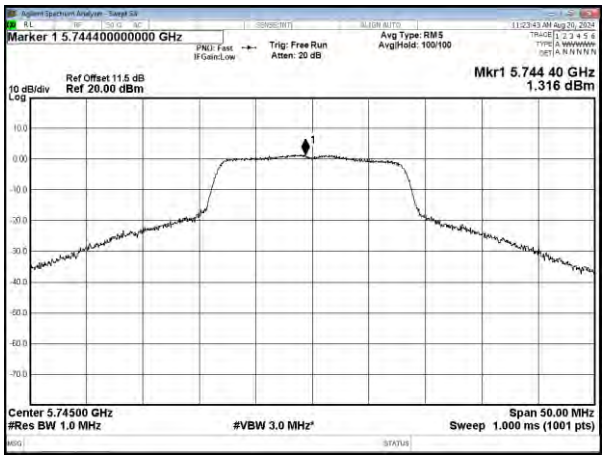


CH134

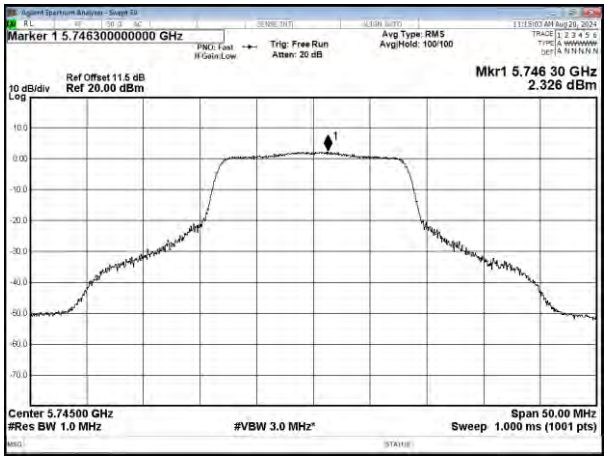


UNII-3

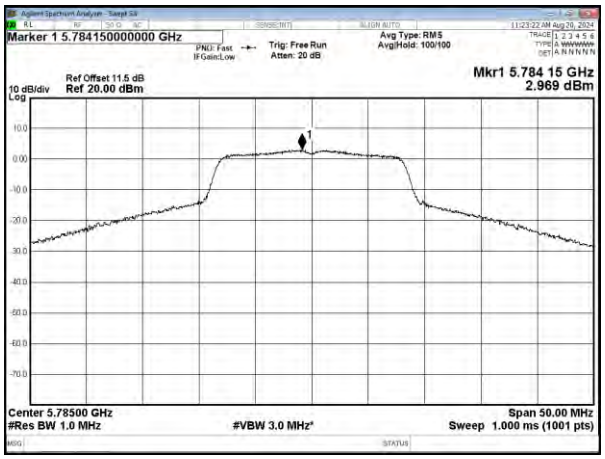
SISO-ANT A
Modulation Type: 802.11a
CH149



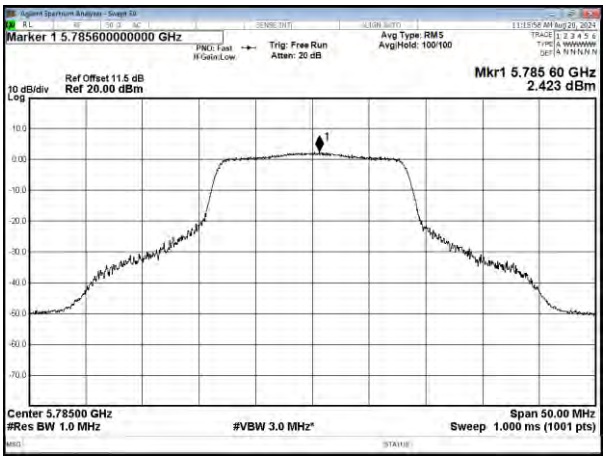
SISO-ANT B
Modulation Type: 802.11a
CH149



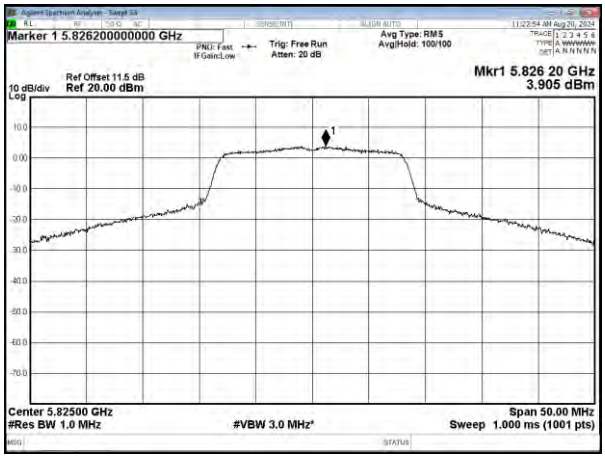
CH157



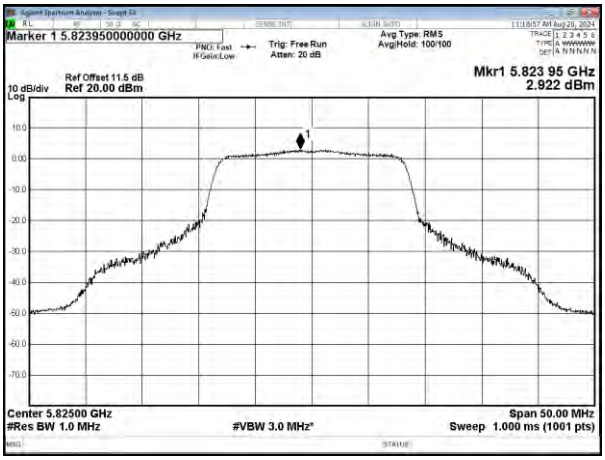
CH157



CH165



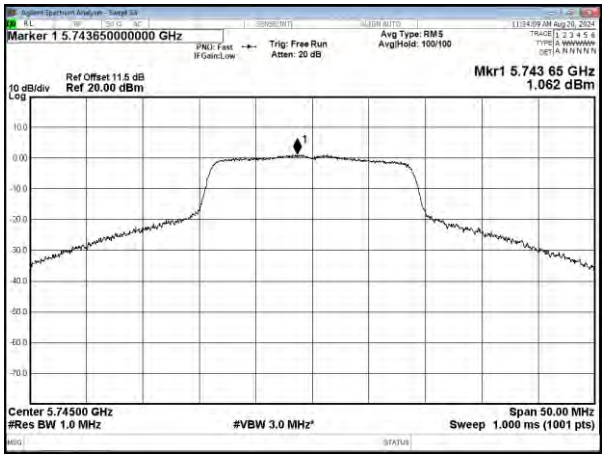
CH165



MIMO (ANT A)

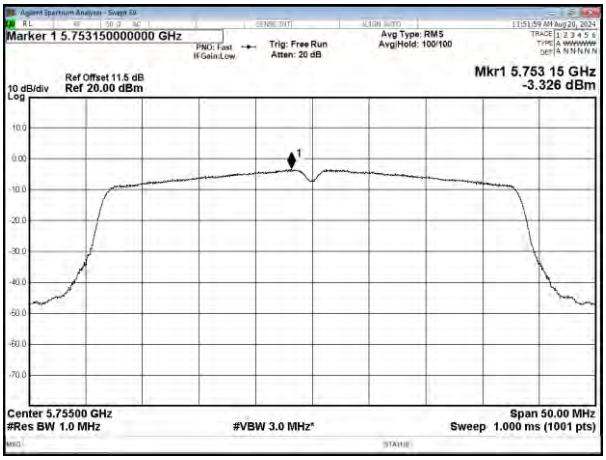
Modulation Type: 802.11ac, VHT20

CH149

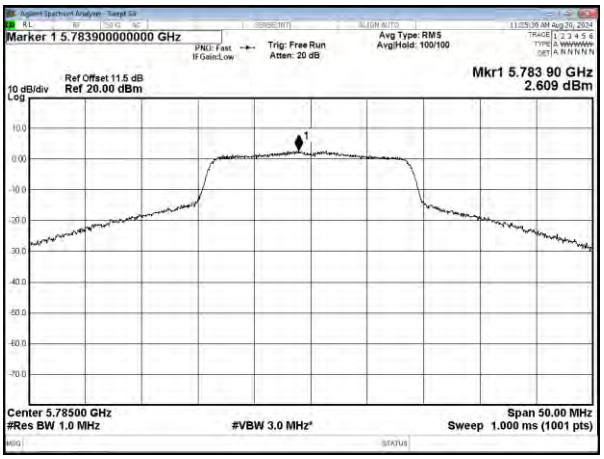


Modulation Type: 802.11ac, VHT40

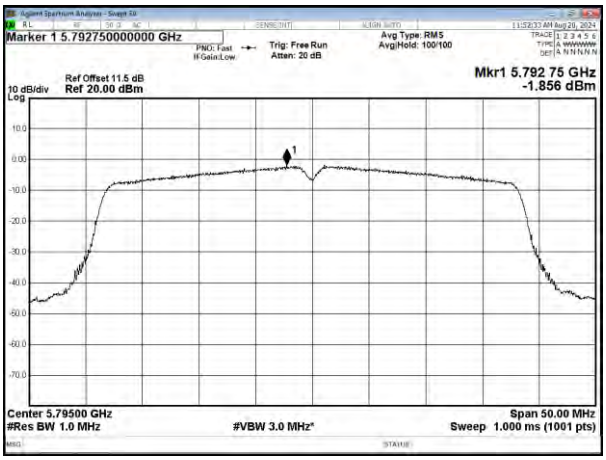
CH151



CH157

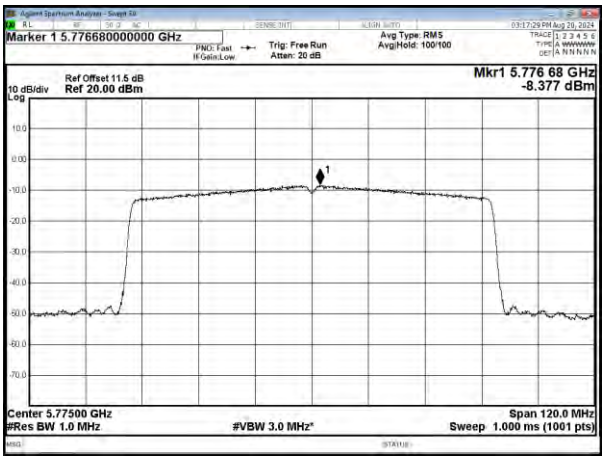


CH159

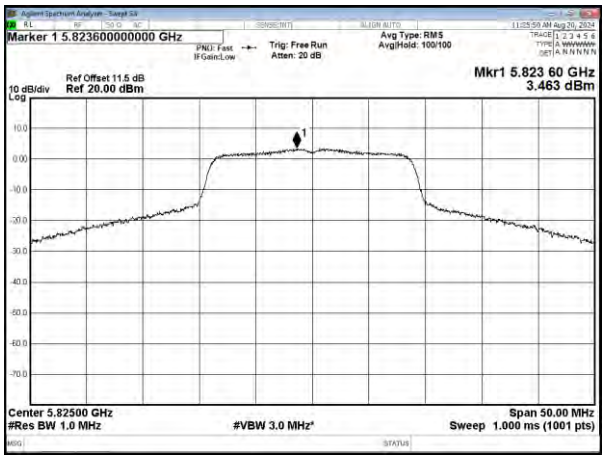


Modulation Type: 802.11ac, VHT80

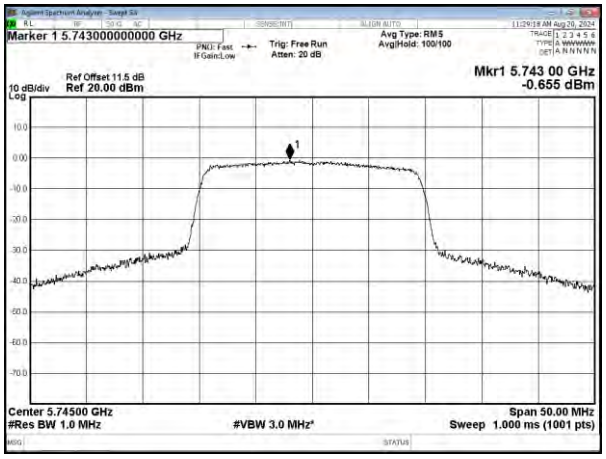
CH155



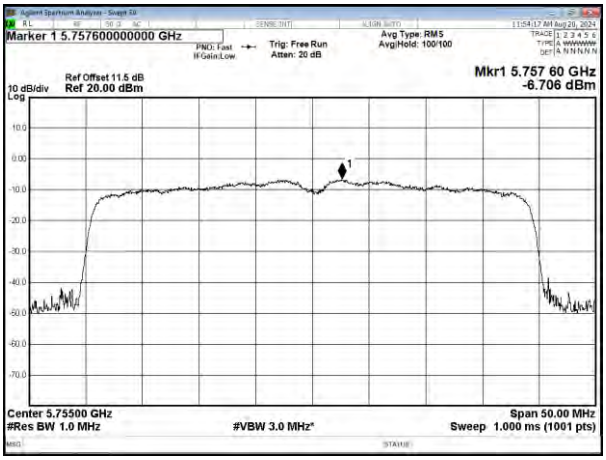
CH165



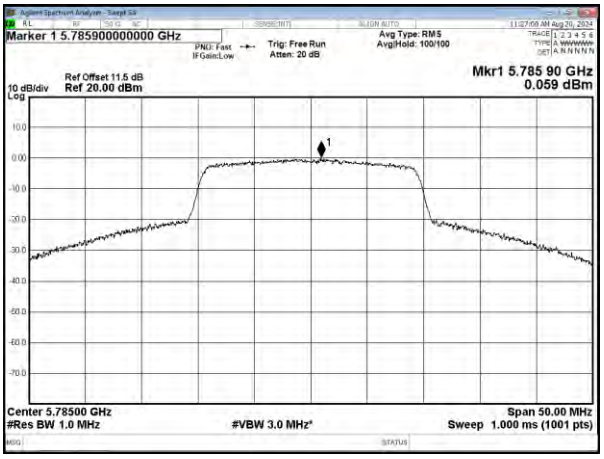
Modulation Type: 802.11ax, HE20
CH149



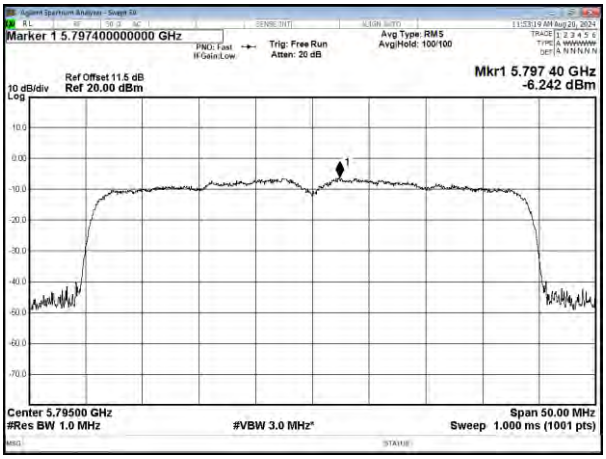
Modulation Type: 802.11ax, HE40
CH151



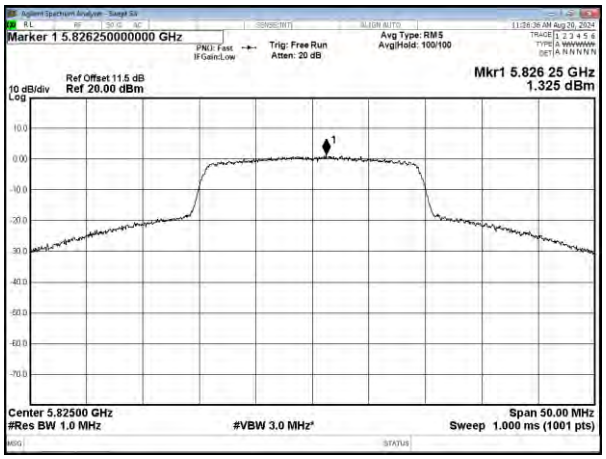
CH157



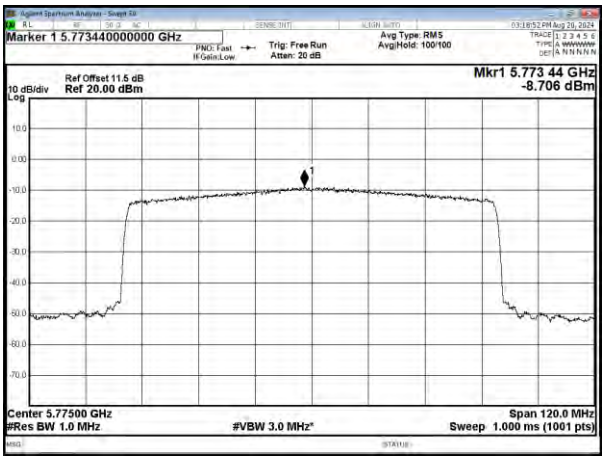
CH159



CH165



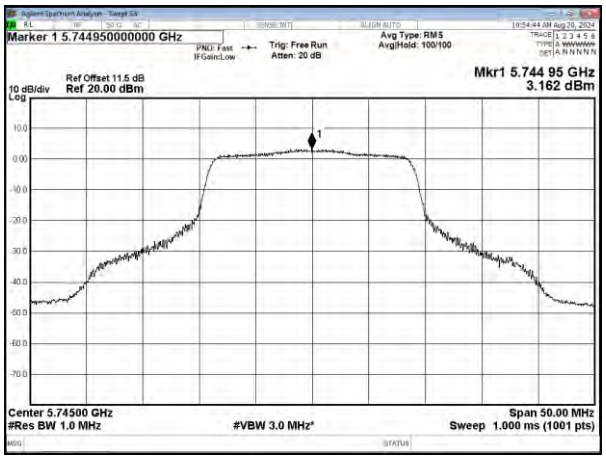
Modulation Type: 802.11ax, HE80
CH155



MIMO (ANT B)

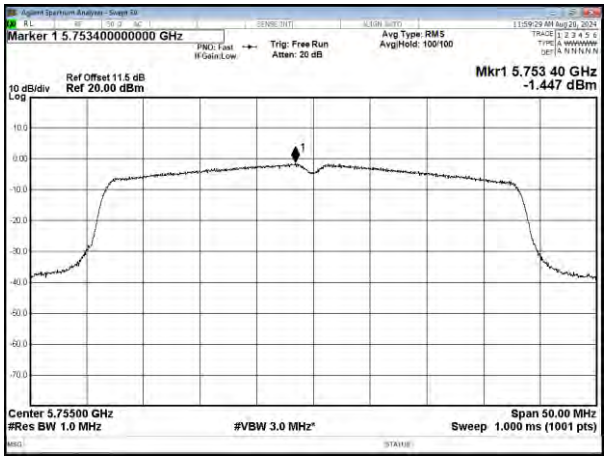
Modulation Type: 802.11ac, VHT20

CH149

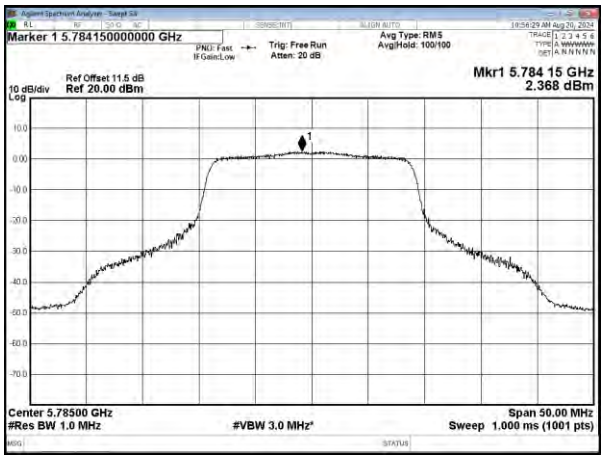


Modulation Type: 802.11ac, VHT40

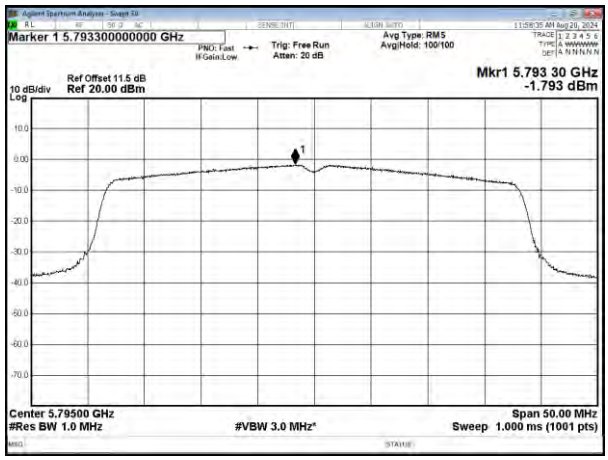
CH151



CH157

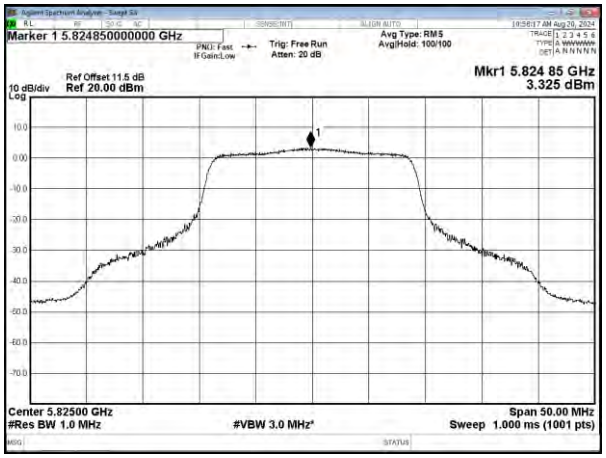


CH159

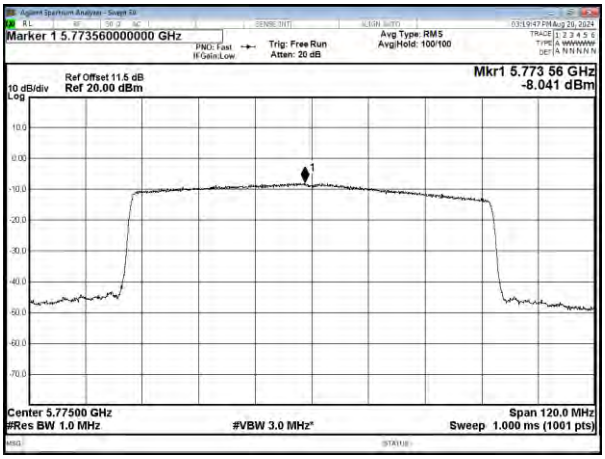


Modulation Type: 802.11ac, VHT80

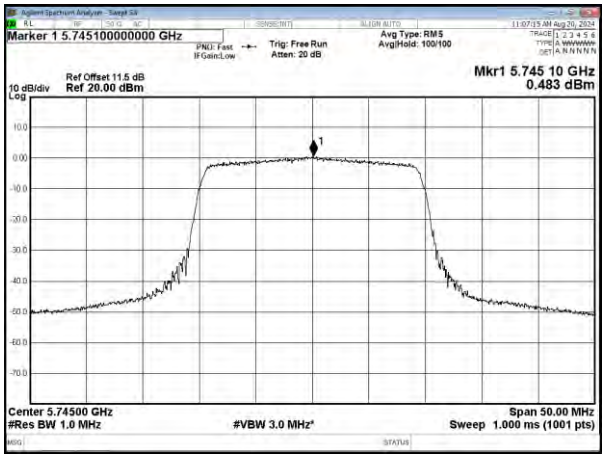
CH165



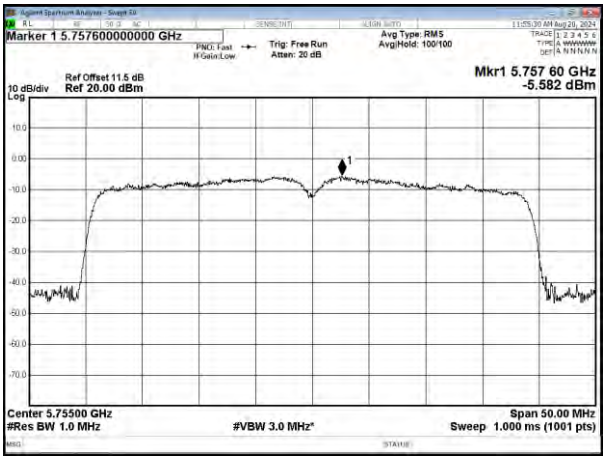
CH155



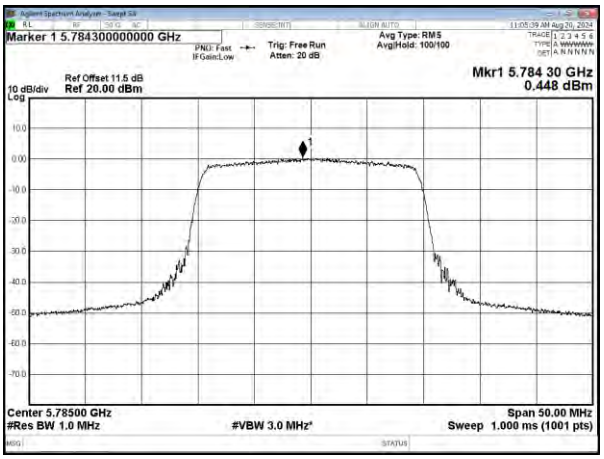
Modulation Type: 802.11ax, HE20
CH149



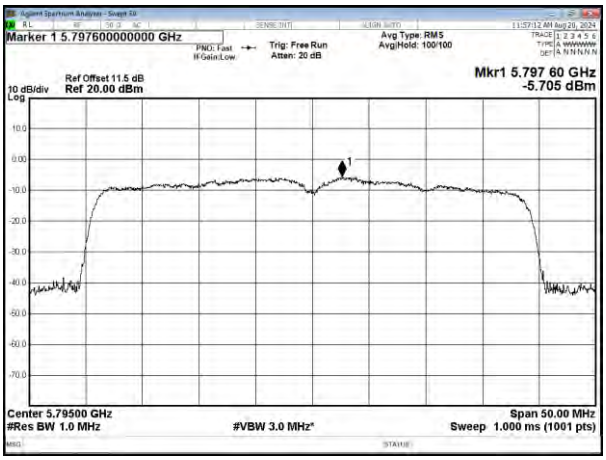
Modulation Type: 802.11ax, HE40
CH151



CH157

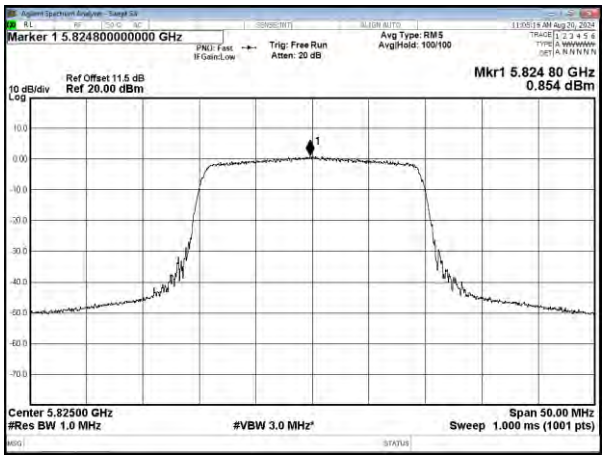


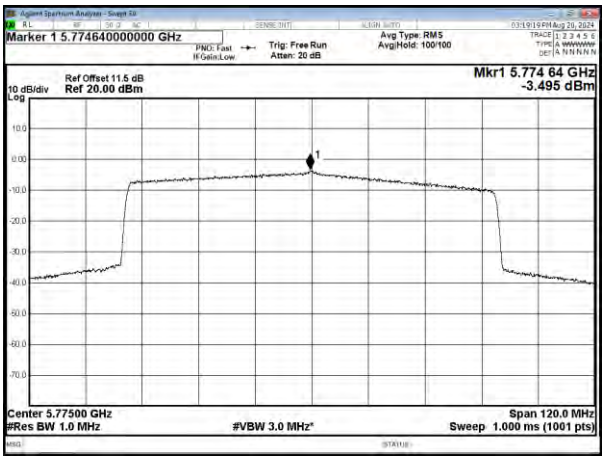
CH159



Modulation Type: 802.11ax, HE80
CH155

CH165



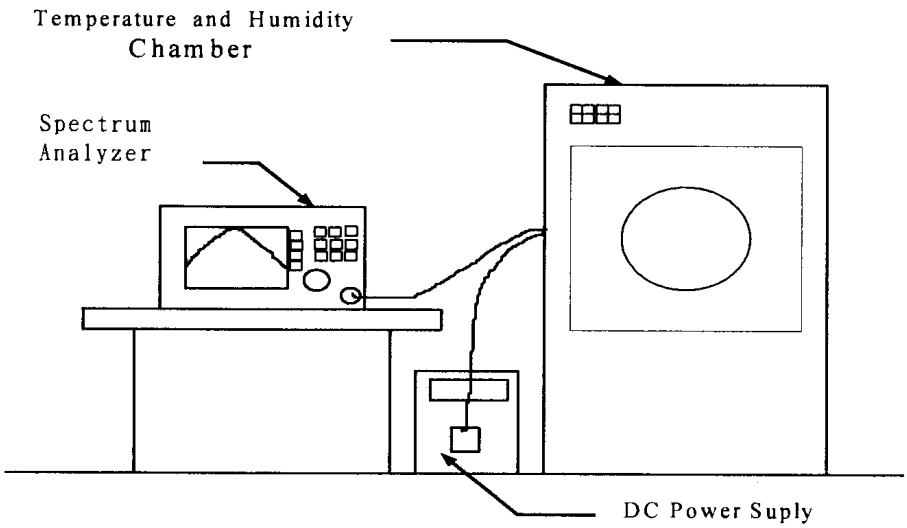


12. Frequency Stability

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	
(℃)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
60	5.5	5179.9918	-0.000158	5179.9916	-0.000162	5179.9928	-0.000139
	5	5179.9925	-0.000145	5179.9938	-0.000120	5179.9942	-0.000112
	4.5	5179.9916	-0.000162	5179.9915	-0.000164	5179.9927	-0.000141
40	5.5	5179.9921	-0.000153	5179.9924	-0.000147	5179.9932	-0.000131
	5	5179.9932	-0.000131	5179.9972	-0.000054	5179.9973	-0.000052
	4.5	5179.9924	-0.000147	5179.9939	-0.000118	5179.9926	-0.000143
20	5.5	5179.9948	-0.000100	5179.9948	-0.000100	5179.9911	-0.000172
	5	5179.9937	-0.000122	5179.9927	-0.000141	5179.9936	-0.000124
	4.5	5179.9915	-0.000164	5179.9914	-0.000166	5179.9952	-0.000093
0	5.5	5179.9935	-0.000125	5179.9908	-0.000178	5179.9917	-0.000160
	5	5179.9939	-0.000118	5179.9981	-0.000037	5179.9925	-0.000145
	4.5	5179.9925	-0.000145	5179.9919	-0.000156	5179.9929	-0.000137

Operating frequency: 5260 MHz							
Temp	Power supply	2 minute		5 minute		10 minute	
(℃)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
60	5.5	5259.9935	-0.000125	5259.9946	-0.000104	5259.9933	-0.000129
	5	5259.9926	-0.000143	5259.9939	-0.000118	5259.9949	-0.000098
	4.5	5259.9938	-0.000120	5259.9947	-0.000102	5259.9945	-0.000106
40	5.5	5259.9957	-0.000083	5259.9928	-0.000139	5259.9939	-0.000118
	5	5259.9949	-0.000098	5259.9943	-0.000110	5259.99454	-0.000105
	4.5	5259.9951	-0.000095	5259.9916	-0.000162	5259.9962	-0.000073
20	5.5	5259.9925	-0.000145	5259.9923	-0.000149	5259.9947	-0.000102
	5	5259.9943	-0.000110	5259.9925	-0.000145	5259.9951	-0.000095
	4.5	5259.9929	-0.000137	5259.9971	-0.000056	5259.9936	-0.000124
0	5.5	5259.9975	-0.000048	5259.9942	-0.000112	5259.9978	-0.000042
	5	5259.9923	-0.000149	5259.9954	-0.000089	5259.9955	-0.000087
	4.5	5259.9931	-0.000133	5259.9973	-0.000052	5259.9935	-0.000125

Operating frequency: 5500 MHz							
Temp	Power supply	2 minute		5 minute		10 minute	
(℃)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
60	5.5	5499.9952	-0.000093	5499.9957	-0.000083	5499.9939	-0.000118
	5	5499.9954	-0.000089	5499.9918	-0.000158	5499.9935	-0.000125
	4.5	5499.9929	-0.000137	5499.9934	-0.000127	5499.9948	-0.000100
40	5.5	5499.9971	-0.000056	5499.9955	-0.000087	5499.9962	-0.000073
	5	5499.9935	-0.000125	5499.9948	-0.000100	5499.9927	-0.000141
	4.5	5499.9951	-0.000095	5499.9923	-0.000149	5499.9971	-0.000056
20	5.5	5499.9921	-0.000153	5499.9947	-0.000102	5499.9969	-0.000060
	5	5499.9936	-0.000124	5499.9928	-0.000139	5499.9972	-0.000054
	4.5	5499.9947	-0.000102	5499.9943	-0.000110	5499.9963	-0.000071
0	5.5	5499.9923	-0.000149	5499.9977	-0.000044	5499.9958	-0.000081
	5	5499.9991	-0.000017	5499.9986	-0.000027	5499.9955	-0.000087
	4.5	5499.9917	-0.000160	5499.9963	-0.000071	5499.9967	-0.000064

Operating frequency: 5745 MHz							
Temp	Power supply	2 minute		5 minute		10 minute	
(℃)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
60	5.5	5744.9975	-0.000048	5744.9952	-0.000093	5744.9951	-0.000095
	5	5744.9974	-0.000050	5744.9924	-0.000147	5744.9952	-0.000093
	4.5	5744.9924	-0.000147	5744.9939	-0.000118	5744.9953	-0.000091
40	5.5	5744.9922	-0.000151	5744.9927	-0.000141	5744.9982	-0.000035
	5	5744.9937	-0.000122	5744.9935	-0.000125	5744.9945	-0.000106
	4.5	5744.9982	-0.000035	5744.9979	-0.000041	5744.9974	-0.000050
20	5.5	5744.9963	-0.000071	5744.9937	-0.000122	5744.9936	-0.000124
	5	5744.9942	-0.000112	5744.9945	-0.000106	5744.9973	-0.000052
	4.5	5744.9972	-0.000054	5744.9969	-0.000060	5744.9946	-0.000104
0	5.5	5744.9923	-0.000149	5744.9925	-0.000145	5744.9949	-0.000098
	5	5744.9958	-0.000081	5744.9975	-0.000048	5744.9948	-0.000100
	4.5	5744.9935	-0.000125	5744.9983	-0.000033	5744.9924	-0.000147

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 ----------