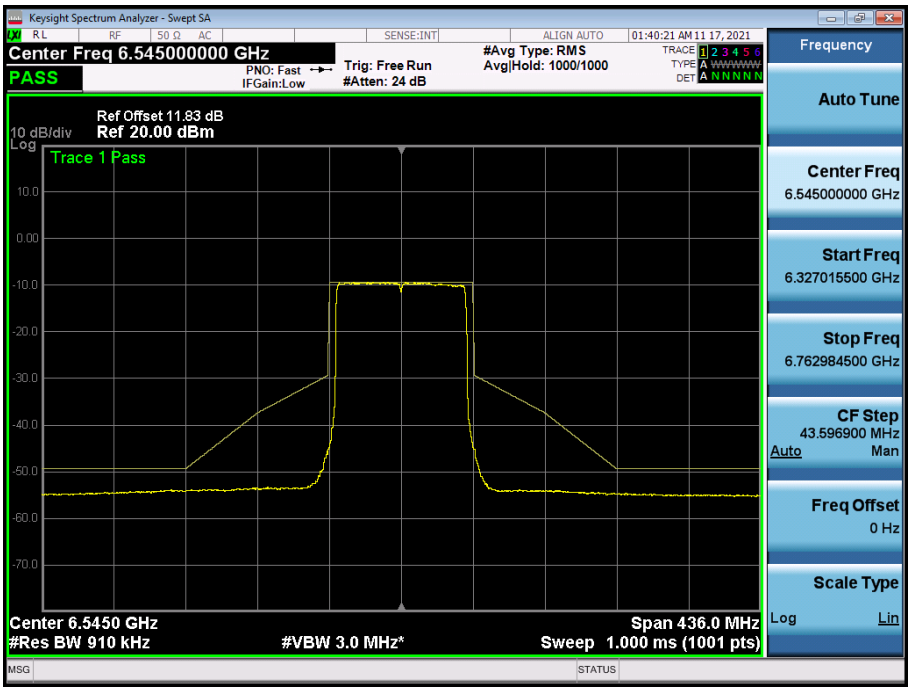
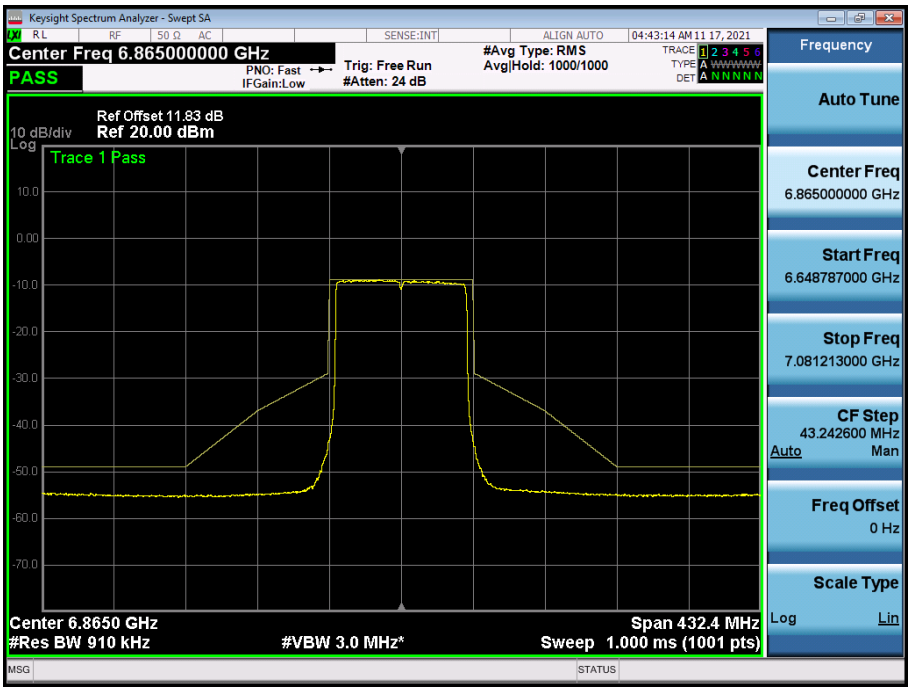
802.11ax HE80 Ch.119(6545 MHz) 996 Tones 67 RU



802.11ax HE80 Ch.151(6705 MHz) 996 Tones 67 RU

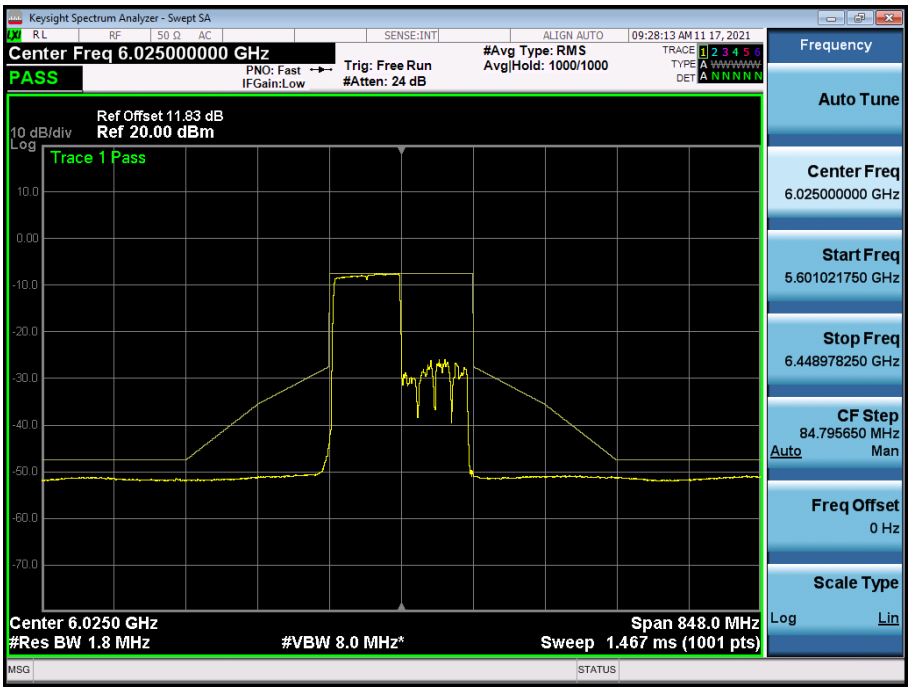
802.11ax HE80 Ch.183(6865 MHz) 996 Tones 67 RU



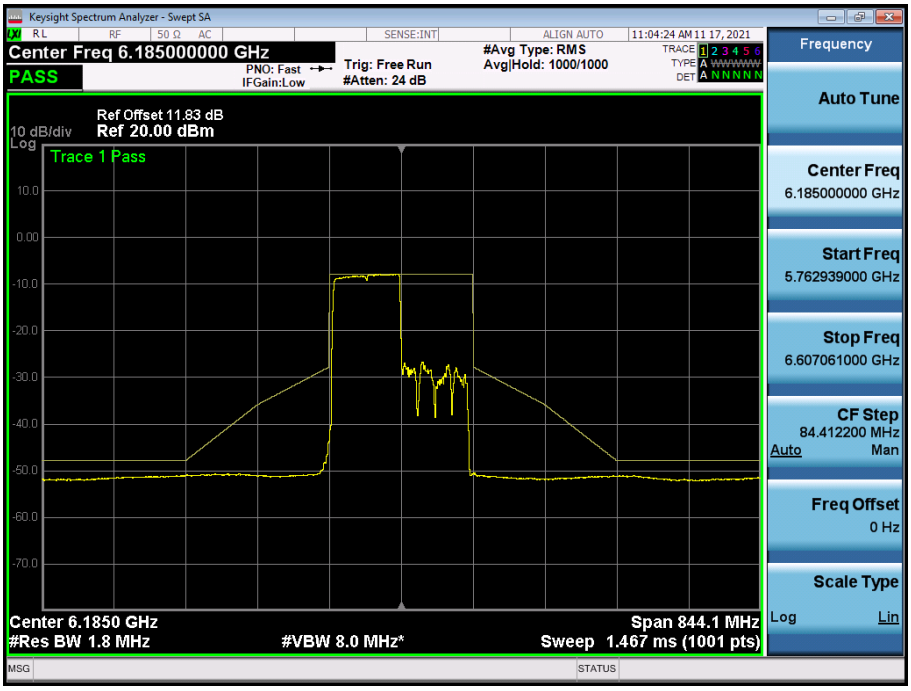
802.11ax HE80 Ch.199(6945 MHz) 996 Tones 67 RU

802.11ax HE80 Ch.215(7025 MHz) 996 Tones 67 RU

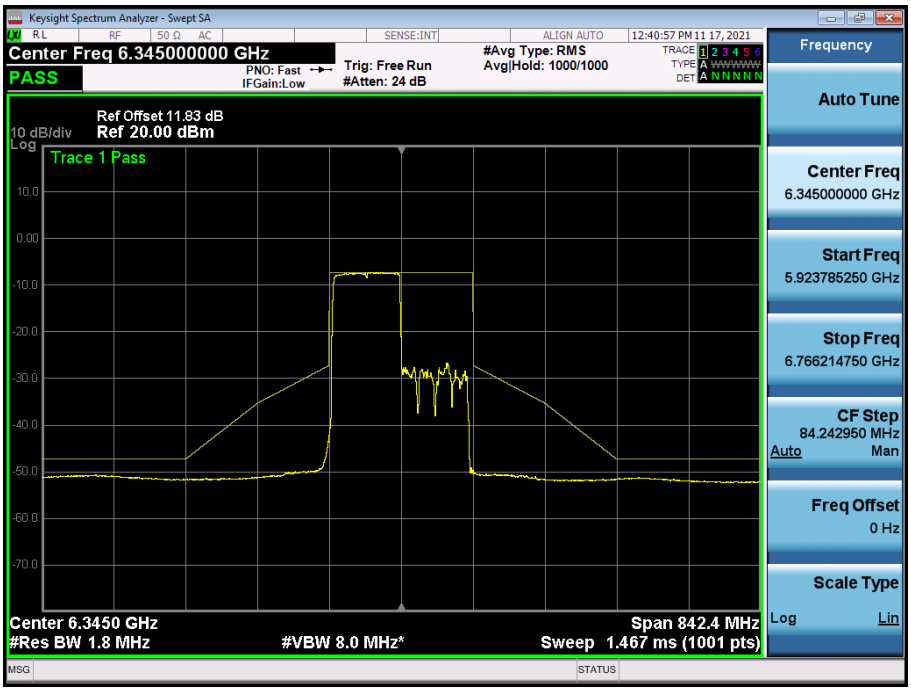
802.11ax HE160, 80_L Ch.15(6025 MHz) 996 Tones 67 RU



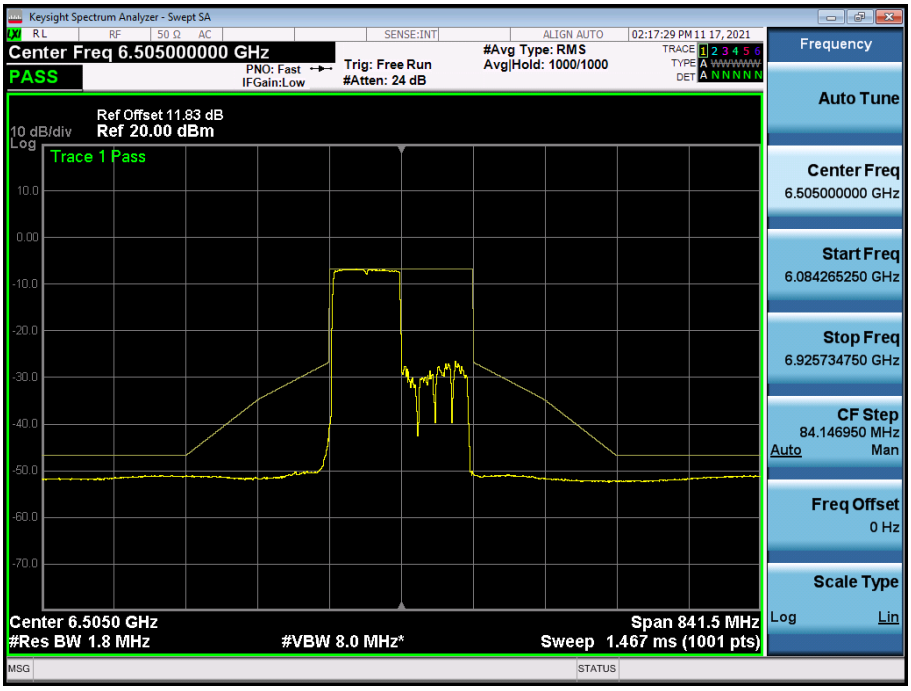
802.11ax HE160, 80_L Ch.47(6185 MHz) 996 Tones 67 RU



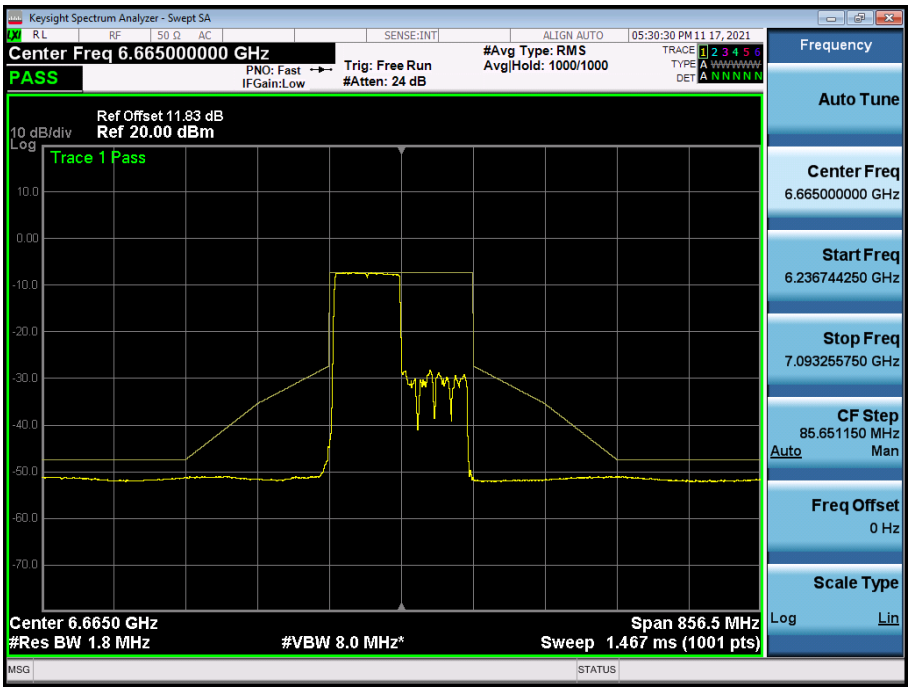
802.11ax HE160, 80_L Ch.79(6345 MHz) 996 Tones 67 RU



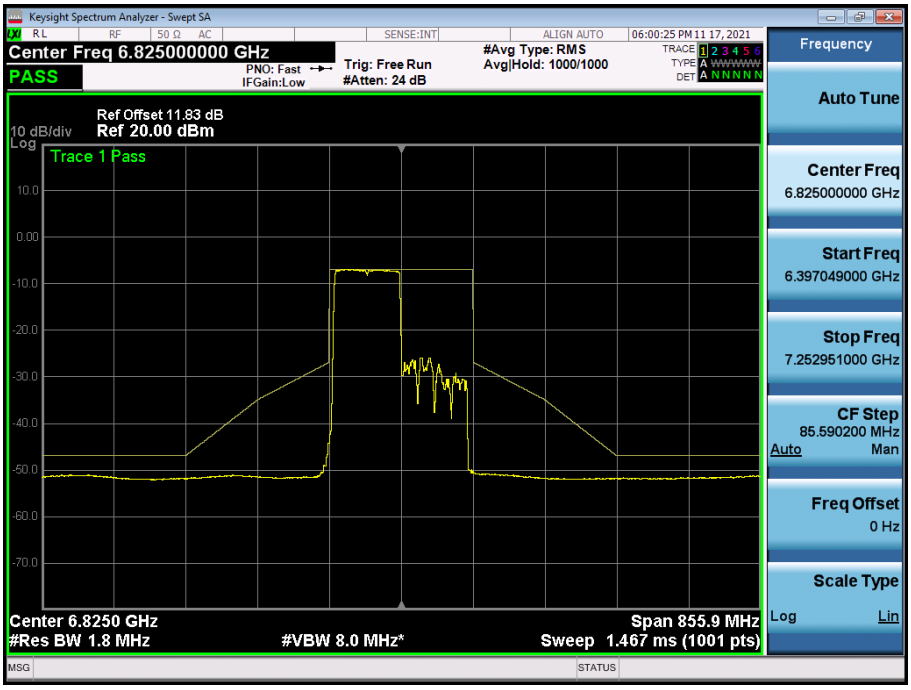
802.11ax HE160, 80_L Ch.111(6505 MHz) 996 Tones 67 RU



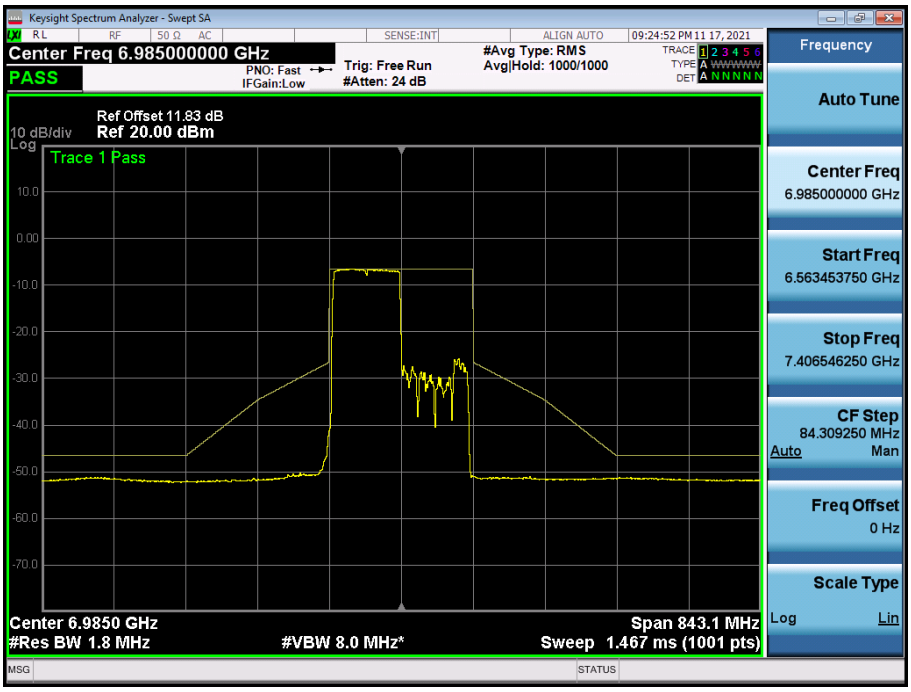
802.11ax HE160, 80_L Ch.143(6665 MHz) 996 Tones 67 RU



802.11ax HE160, 80_L Ch.175(6825 MHz) 996 Tones 67 RU

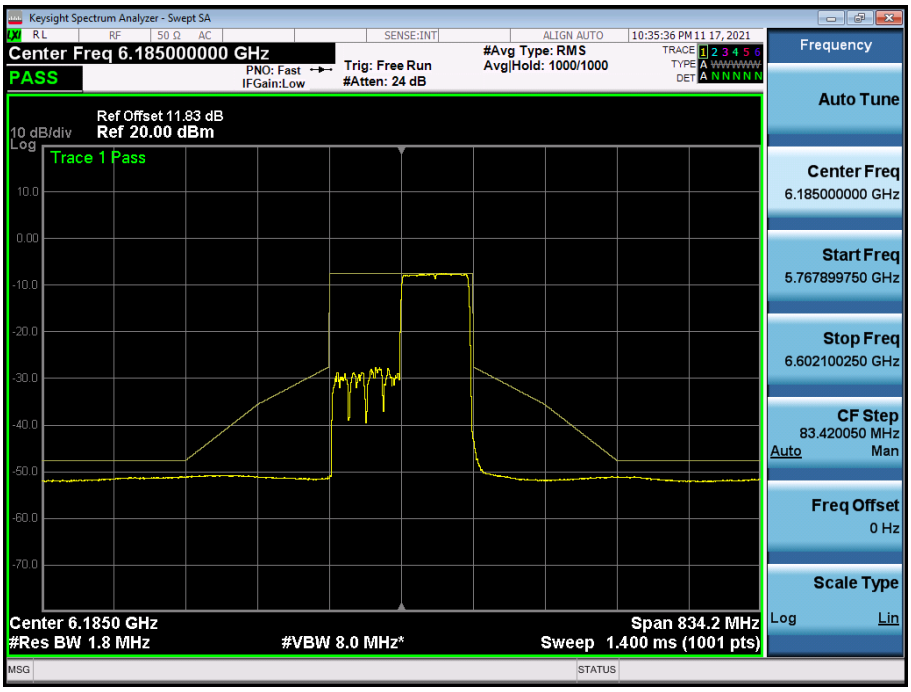


802.11ax HE160, 80_L Ch.207(6985 MHz) 996 Tones 67 RU

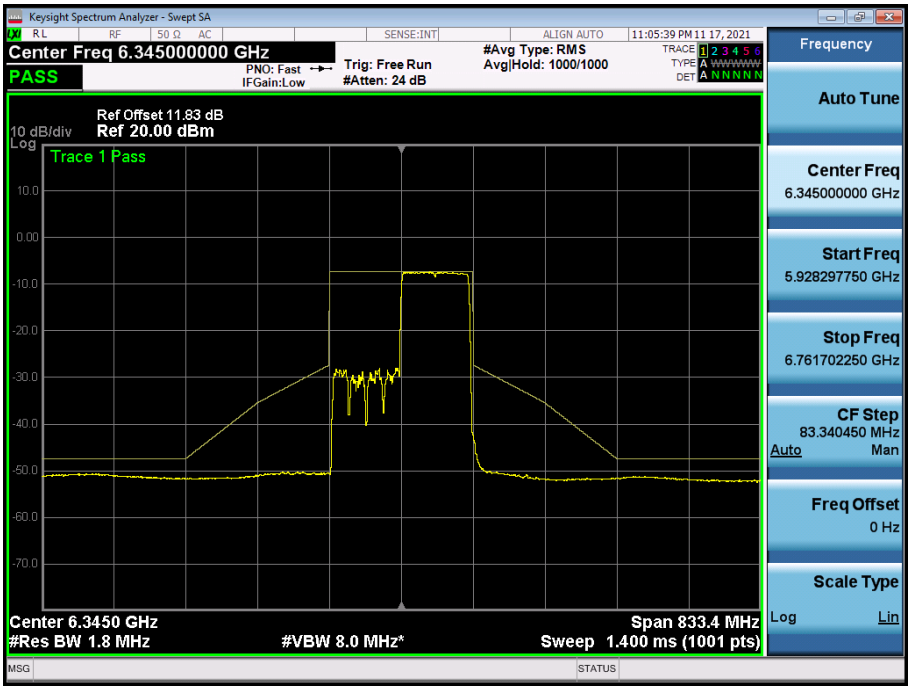


802.11ax HE160, 80_U Ch. 15(6025 MHz) 484 Tones 66 RU

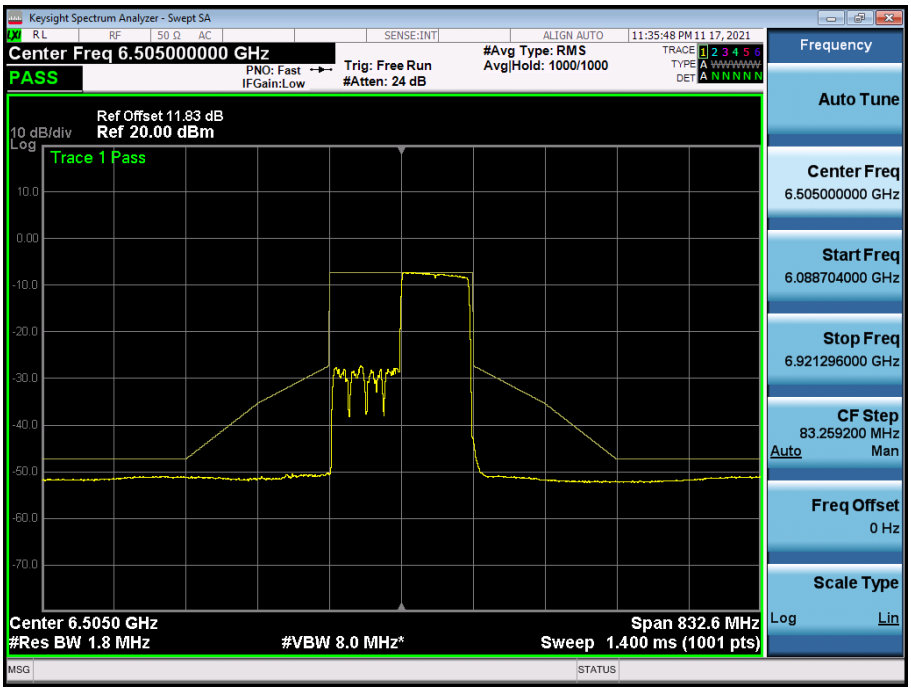
802.11ax HE160, 80_U Ch. 47(6185 MHz) 996 Tones 67 RU



802.11ax HE160, 80_U Ch. 79(6345 MHz) 996 Tones 67 RU

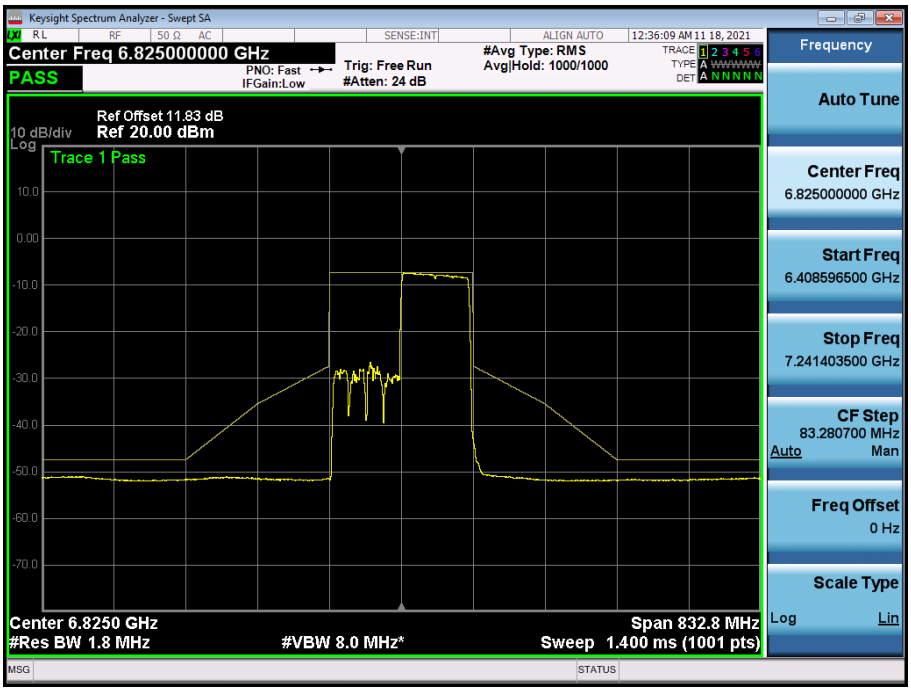


802.11ax HE160, 80_U Ch. 111(6505 MHz) 996 Tones 67 RU

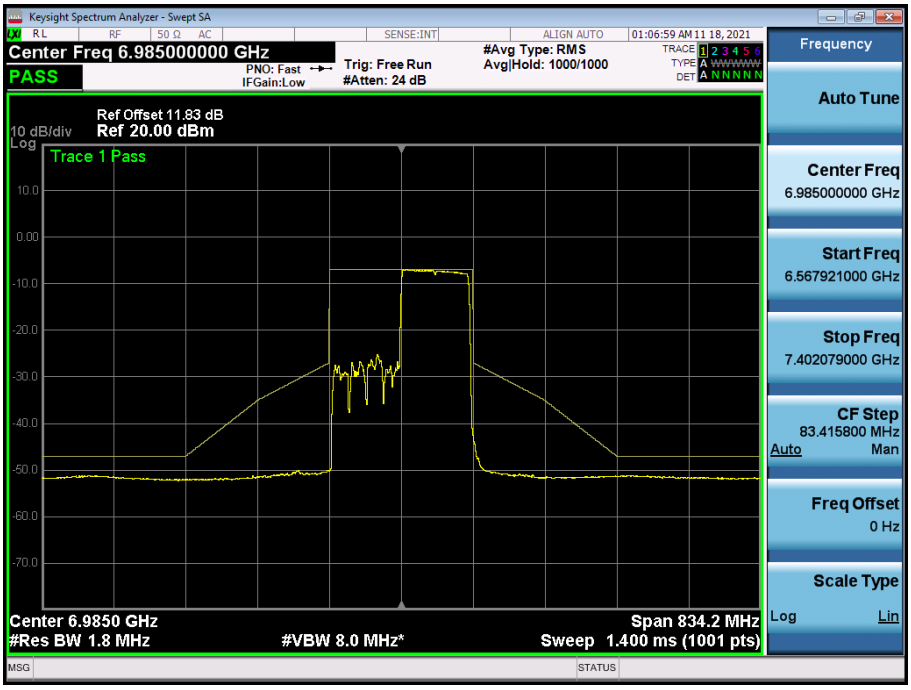


802.11ax HE160, 80_U Ch. 143(6665 MHz) 996 Tones 67 RU

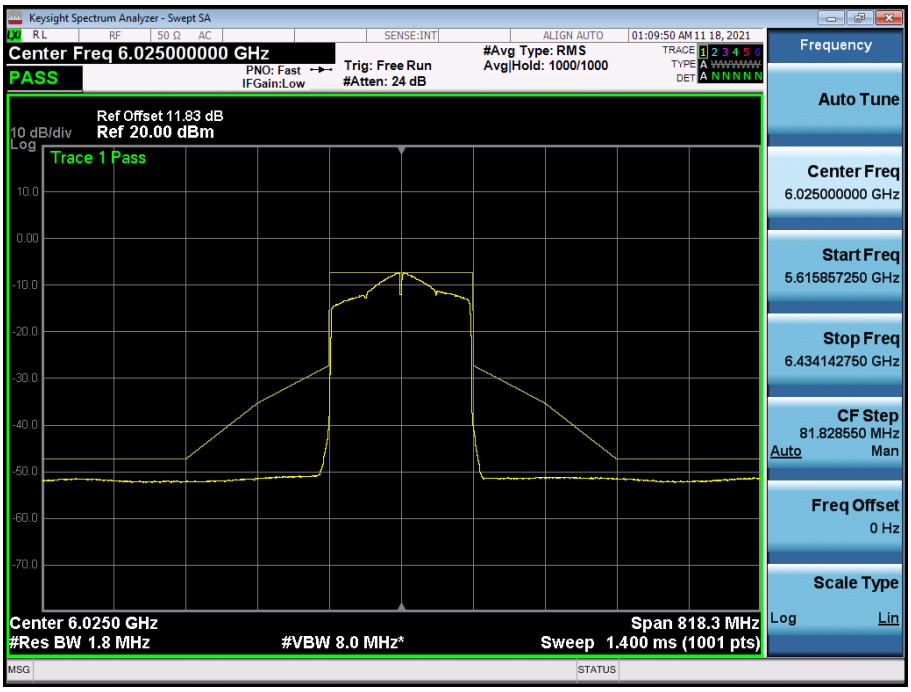
802.11ax HE160, 80_U Ch. 175(6825 MHz) 996 Tones 67 RU



802.11ax HE160, 80_U Ch. 207(6985 MHz) 996 Tones 67 RU

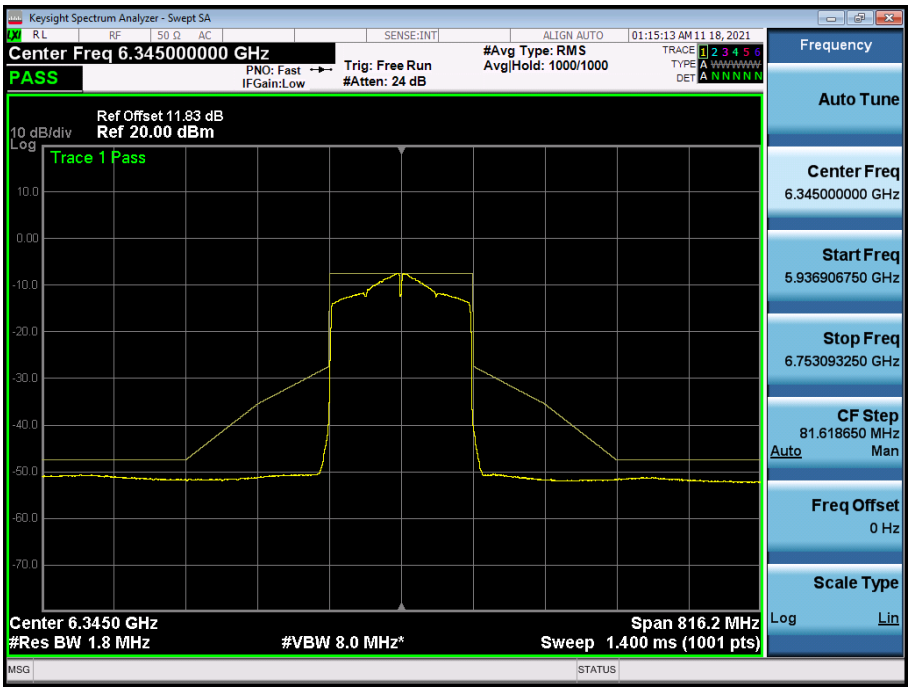


Bandwidth 160M, SU Ch. 15(6025 MHz) SU

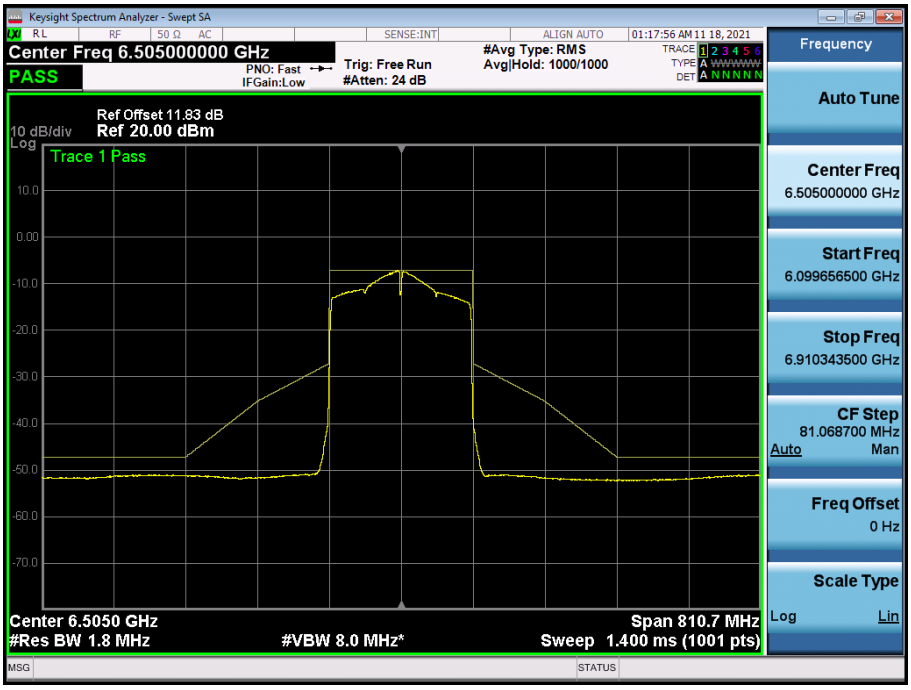


Bandwidth 160M, SU Ch. 47(6185 MHz) SU

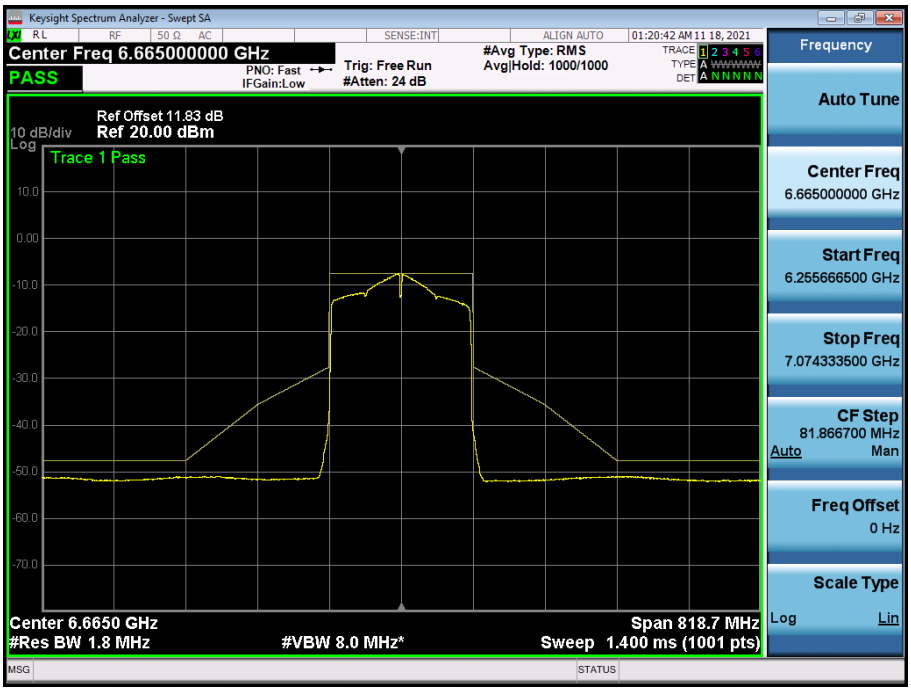
Bandwidth 160M, SU Ch. 79(6345 MHz) SU



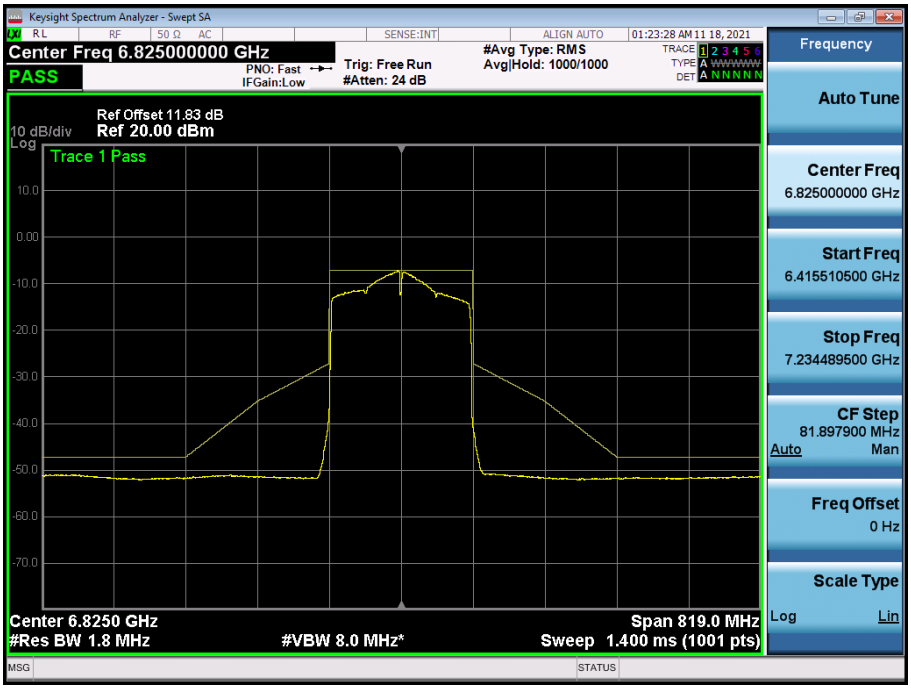
Bandwidth 160M, SU Ch. 111(6505 MHz) SU



Bandwidth 160M, SU Ch. 143(6665 MHz) SU



Bandwidth 160M, SU Ch. 175(6825 MHz) SU



Bandwidth 160M, SU Ch. 207(6985 MHz) SU

4. Power Spectral Density

Note:

1. In order to simplify the report, attached plots were only channel of highest EIRP PSD.
2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F) 2) f) (ii)

Directional gain =

- $$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$$

Band	Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	N_{ANT}/ N_{SS}	Directional Gain (dBi)
UNII-5	-5.16	-6.01	2 / 2	-2.56
UNII-6	-5.16	-6.01	2 / 2	-2.56
UNII-7	-5.54	-6.70	2 / 2	-3.09
UNII-8	-5.58	-7.10	2 / 2	-3.30

4.1 Ant1

802.11a Ch.93(6415 MHz)

Measured Value (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
-1.764	0.000	-1.764	-6.924	-1

Note:

Total PSD(dBm/MHz) = Measured Value(dBm/MHz) + Duty Cycle Factor(dB)

EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Peak Ant. Gain(dBi)

802.11ax HE20 Ch.2(5935 MHz) 26 Tones RU 0

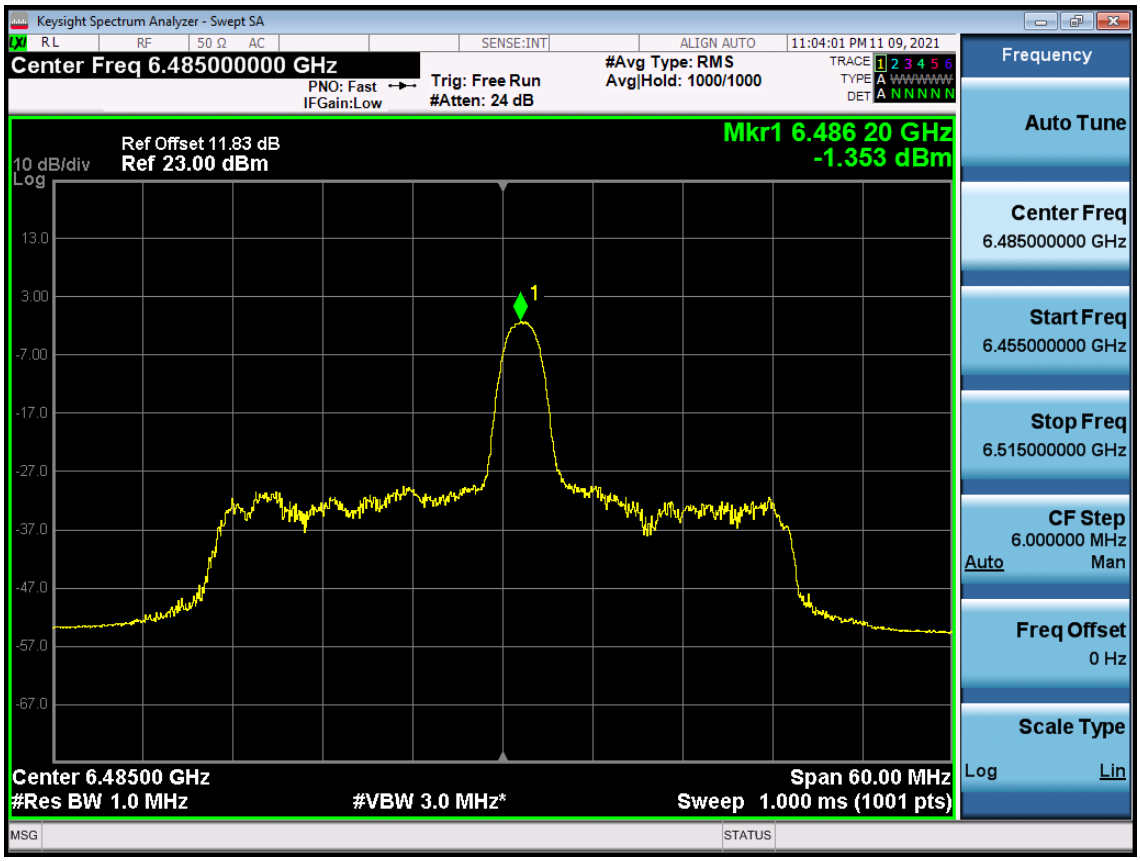
Measured Value (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
-1.311	0.00	-1.311	-6.471	-1

Note:

Total PSD(dBm/MHz) = Measured Value(dBm/MHz) + Duty Cycle Factor(dB)

EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Peak Ant. Gain(dBi)

802.11ax HE40 Ch.107(6485 MHz) RU 9



Measured Value (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
-1.353	0.00	-1.353	-6.513	-1

Note:

Total PSD(dBm/MHz) = Measured Value(dBm/MHz) + Duty Cycle Factor(dB)

EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Peak Ant. Gain(dBi)

802.11ax HE80 Ch.39(6145 MHz) RU 57

Measured Value (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
-1.429	0.00	-1.429	-6.589	-1

Note:

Total PSD(dBm/MHz) = Measured Value(dBm/MHz) + Duty Cycle Factor(dB)

EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Peak Ant. Gain(dBi)

Bandwidth 160M 80_L Ch.15(6025 MHz) RU 57

Measured Value (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
-1.482	0.00	-1.482	-6.642	-1

Note:

Total PSD(dBm/MHz) = Measured Value(dBm/MHz) + Duty Cycle Factor(dB)

EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Peak Ant. Gain(dBi)

Bandwidth 160M 80_U Ch.47(6185 MHz) RU 57

Measured Value (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
-1.227	0.00	-1.227	-6.387	-1

Note:

Total PSD(dBm/MHz) = Measured Value(dBm/MHz) + Duty Cycle Factor(dB)

EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Peak Ant. Gain(dBi)

Bandwidth 160M 80_SU Ch.15(6025 MHz) SU

Measured Value (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
-9.069	0.00	-9.067	-14.229	-1

Note:

Total PSD(dBm/MHz) = Measured Value(dBm/MHz) + Duty Cycle Factor(dB)

EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Peak Ant. Gain(dBi)

4.2 Ant2

802.11a Ch.105(6475 MHz)

Measured Value (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
-1.952	0.000	-1.952	-7.962	-1

Note:

Total PSD(dBm/MHz) = Measured Value(dBm/MHz) + Duty Cycle Factor(dB)

EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Peak Ant. Gain(dBi)

802.11ax HE20 Ch.97(6435 MHz) RU 8

Measured Value (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
-1.245	0.000	-1.245	-7.255	-1

Note:

Total PSD(dBm/MHz) = Measured Value(dBm/MHz) + Duty Cycle Factor(dB)

EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Peak Ant. Gain(dBi)

802.11ax HE40 Ch.91(6405 MHz) RU 9

Measured Value (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
-1.383	0.000	-1.383	-7.393	-1

Note:

Total PSD(dBm/MHz) = Measured Value(dBm/MHz) + Duty Cycle Factor(dB)

EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Peak Ant. Gain(dBi)

802.11ax HE80 Ch.183(6865 MHz) RU 45

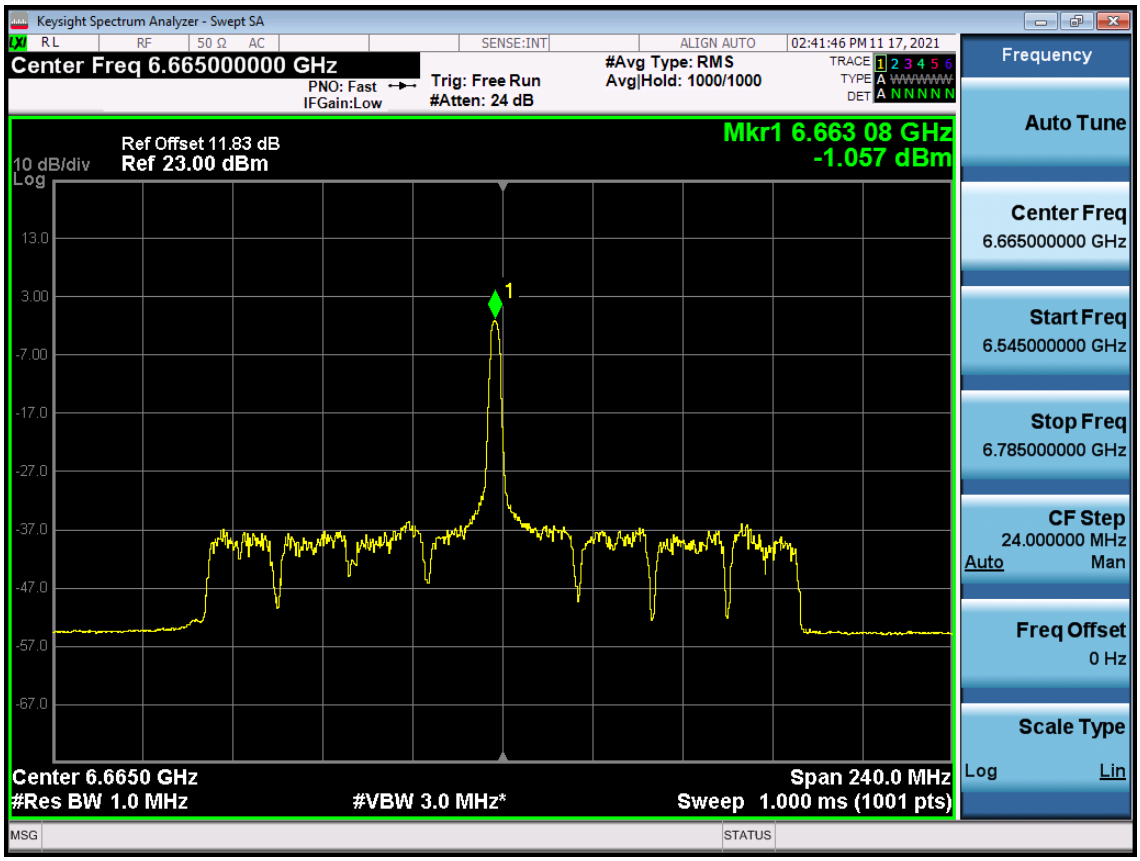
Measured Value (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
-0.949	0.000	-0.949	-7.649	-1

Note:

Total PSD(dBm/MHz) = Measured Value(dBm/MHz) + Duty Cycle Factor(dB)

EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Peak Ant. Gain(dBi)

Bandwidth 160M 80_L Ch.143(6665 MHz) RU 36



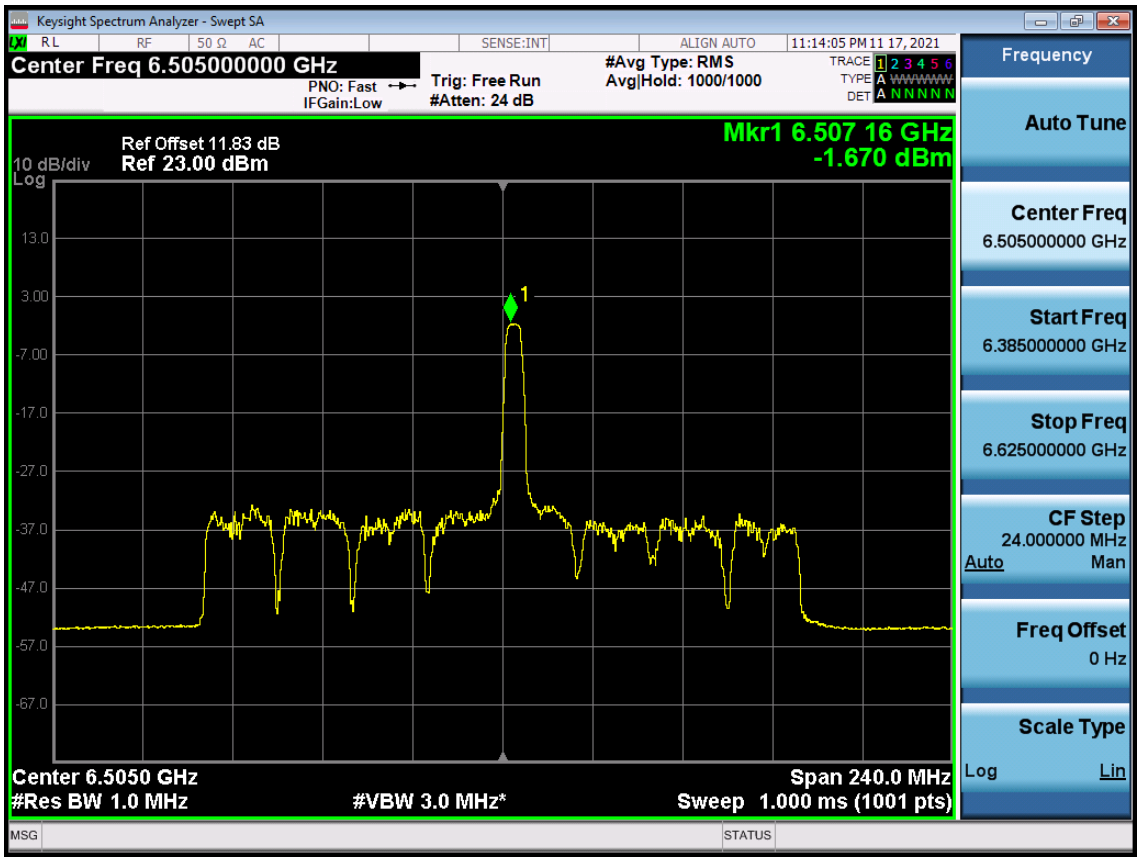
Measured Value (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
-1.057	0.000	-1.057	-7.757	-1

Note:

Total PSD(dBm/MHz) = Measured Value(dBm/MHz) + Duty Cycle Factor(dB)

EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Peak Ant. Gain(dBi)

Bandwidth 160M 80_U Ch.111(6505 MHz) RU 37



Measured Value (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
-1.670	0.000	-1.670	-7.680	-1

Note:

Total PSD(dBm/MHz) = Measured Value(dBm/MHz) + Duty Cycle Factor(dB)

EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Peak Ant. Gain(dBi)

Bandwidth 160M 80_SU Ch.15(6025 MHz) SU

Measured Value (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
-8.907	0.000	-8.907	-14.917	-1

Note:

Total PSD(dBm/MHz) = Measured Value(dBm/MHz) + Duty Cycle Factor(dB)

EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Peak Ant. Gain(dBi)

4.3 SUM (MIMO Ant 1 + MIMO Ant2)

802.11a Ch105(6475 MHz)	
Ant1	Ant2
	

SUM PSD (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm/MHz)	EIRP PSD (dBm/MHz)
1.138	0.000	1.138	-1.427

Note:

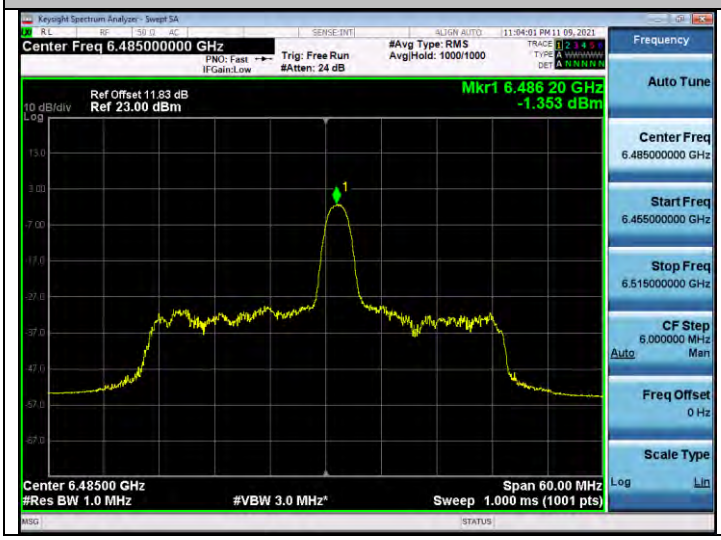
SUM PSD(dBm/MHz) = (Ant 1 Measured Value + Ant 2 Measured Value) (dBm)
Total PSD (dBm/MHz) = SUM PSD(dBm) + Duty Cycle Factor (dB)
EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Directional Gain(dBi)

802.11ax HE20 Ch.45(6175 MHz) 106 Tones RU 53	
Ant1	Ant2
	

SUM PSD (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm/MHz)	EIRP PSD (dBm/MHz)
1.191	0.000	1.191	-1.373

Note:

SUM PSD(dBm/MHz) = (Ant 1 Measured Value + Ant 2 Measured Value) (dBm)
Total PSD (dBm/MHz) = SUM PSD(dBm) + Duty Cycle Factor (dB)
EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Directional Gain(dBi)

802.11ax HE40 Ch.107(6485 MHz) 26 Tones RU 9	
Ant1	Ant2
	

SUM PSD (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm/MHz)	EIRP PSD (dBm/MHz)
1.227	0.000	1.227	-1.338

Note:

SUM PSD(dBm/MHz) = (Ant 1 Measured Value + Ant 2 Measured Value) (dBm)
Total PSD (dBm/MHz) = SUM PSD(dBm) + Duty Cycle Factor (dB)
EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Directional Gain(dBi)

802.11ax HE80 Ch.183(6865 MHz) 52 Tones RU 37	
Ant1	Ant2
	

SUM PSD (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm/MHz)	EIRP PSD (dBm/MHz)
1.686	0.000	1.686	-1.405

Note:

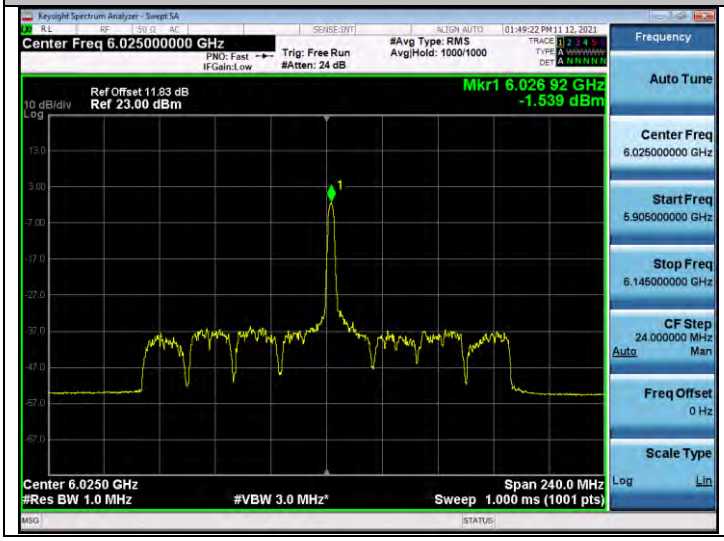
SUM PSD(dBm/MHz) = (Ant 1 Measured Value + Ant 2 Measured Value) (dBm)
Total PSD (dBm/MHz) = SUM PSD(dBm) + Duty Cycle Factor (dB)
EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Directional Gain(dBi)

802.11ax HE160 80_L Ch.15(6025 MHz) 106 Tones RU 60	
Ant1	Ant2
	

SUM PSD (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm/MHz)	EIRP PSD (dBm/MHz)
-5.977	0.000	-5.977	-8.541

Note:

SUM PSD(dBm/MHz) = (Ant 1 Measured Value + Ant 2 Measured Value) (dBm)
Total PSD (dBm/MHz) = SUM PSD(dBm) + Duty Cycle Factor (dB)
EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Directional Gain(dBi)

802.11ax HE160 80_U Ch.15(6025 MHz) 26 Tones RU 0	
Ant1	Ant2
	

SUM PSD (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm/MHz)	EIRP PSD (dBm/MHz)
1.263	0.000	1.263	-1.301

Note:

SUM PSD(dBm/MHz) = (Ant 1 Measured Value + Ant 2 Measured Value) (dBm)
Total PSD (dBm/MHz) = SUM PSD(dBm) + Duty Cycle Factor (dB)
EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Directional Gain(dBi)

802.11ax HE160 80_U Ch.15(6025 MHz) 26 Tones RU 0	
Ant1	Ant2
	

SUM PSD (dBm/MHz)	Duty Cycle Factor (dB)	Total PSD (dBm/MHz)	EIRP PSD (dBm/MHz)
-5.977	0.000	-5.977	-8.541

Note:

SUM PSD(dBm/MHz) = (Ant 1 Measured Value + Ant 2 Measured Value) (dBm)
Total PSD (dBm/MHz) = SUM PSD(dBm) + Duty Cycle Factor (dB)
EIRP PSD(dBm/MHz) = Duty Factor(dB) + Measured Value (dBm/MHz) + Directional Gain(dBi)

5. Contention Based Protocol

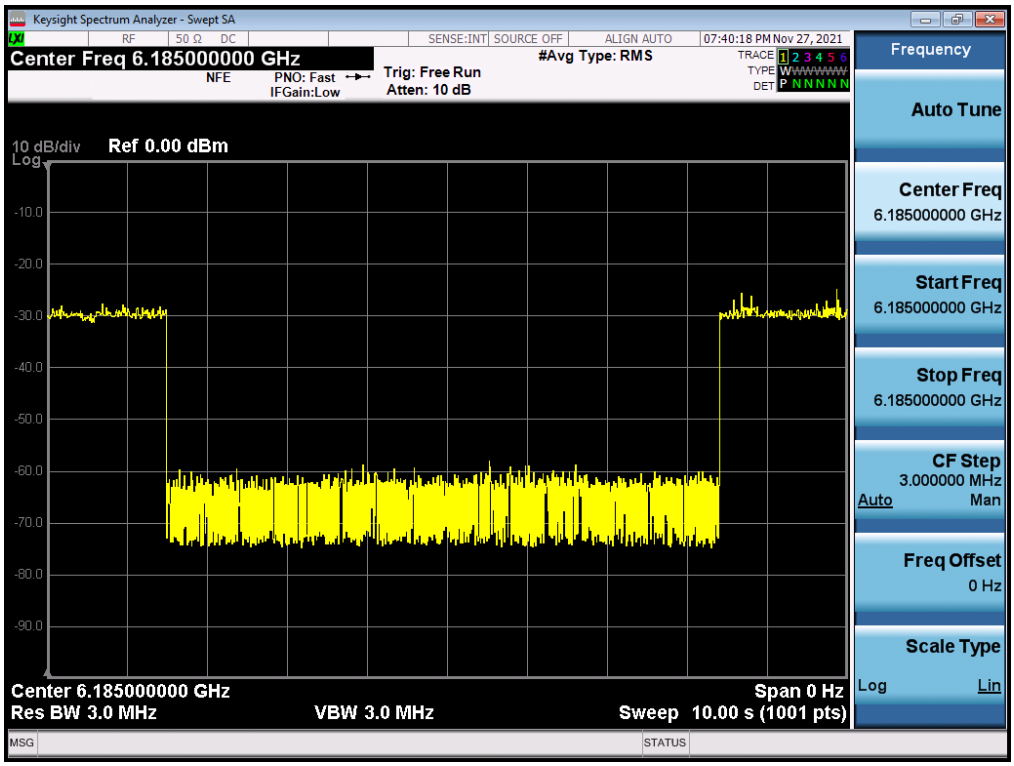
Note:

1. In order to simplify the report, Only worst case for each band have been inserted.
2. The antenna gain is selected from the table.

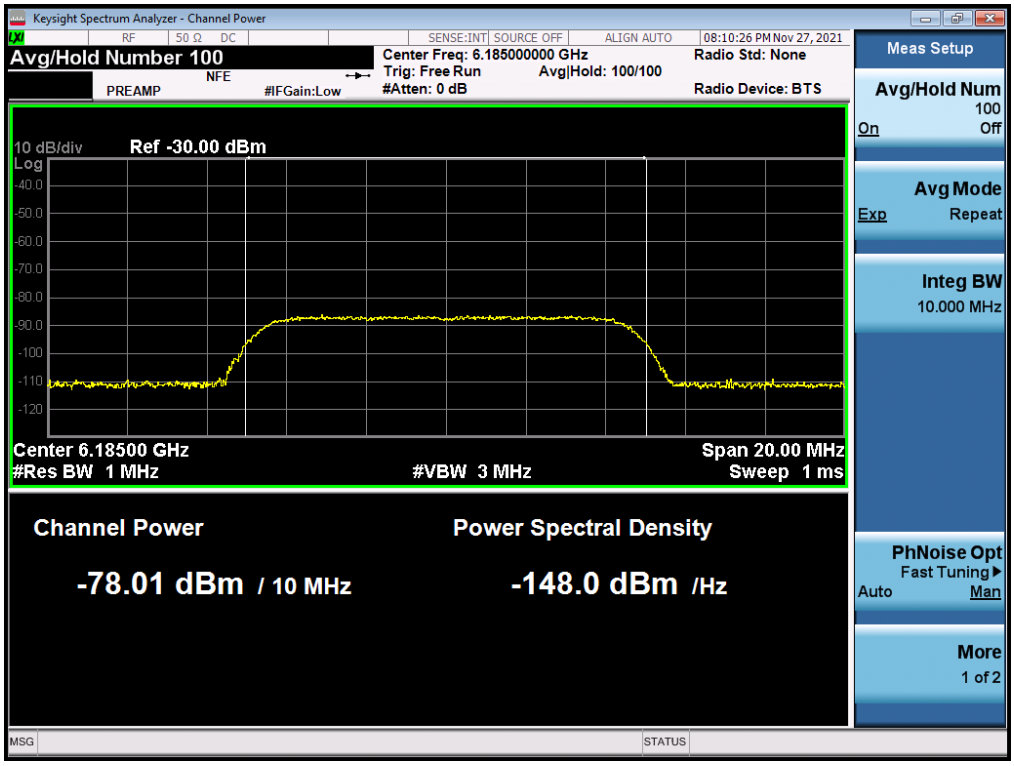
Band	Ant 1 Gain (dBi)	Ant 2 Gain (dBi)
UNII-5	-5.16	-6.01
UNII-6	-5.16	-6.01
UNII-7	-5.54	-6.70
UNII-8	-5.58	-7.10

UNII 5

802.11ax HE160 Ch.47(6185 MHz) Incumbent signal

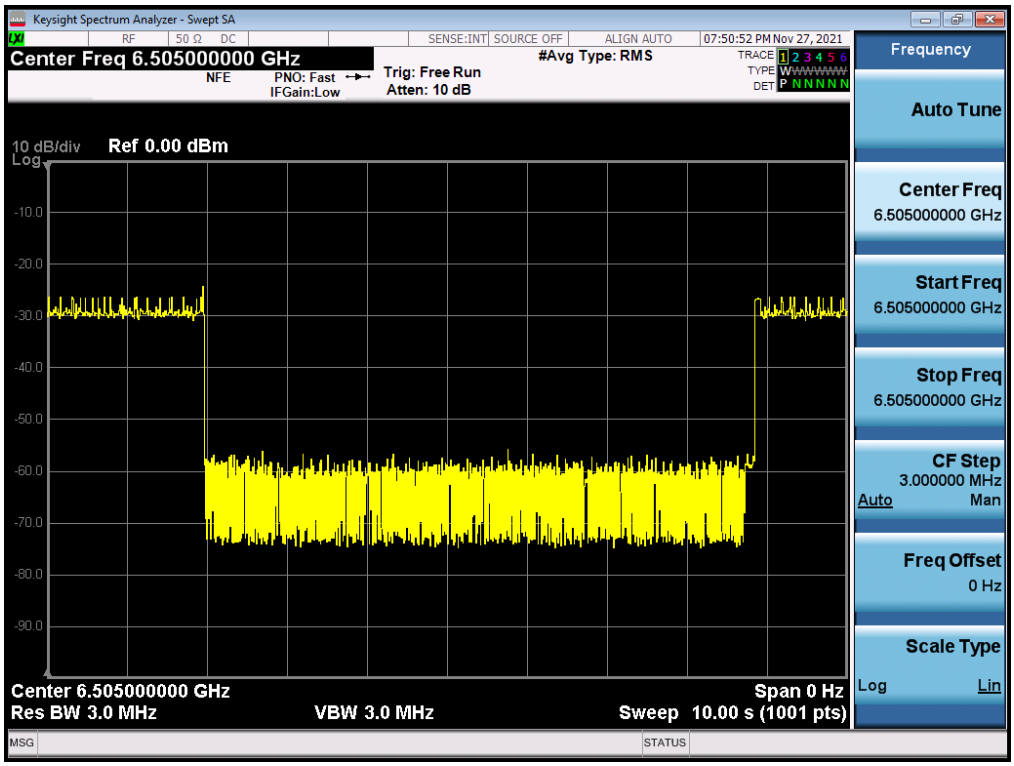


802.11ax HE160 Ch.47(6185 MHz) Detection Level

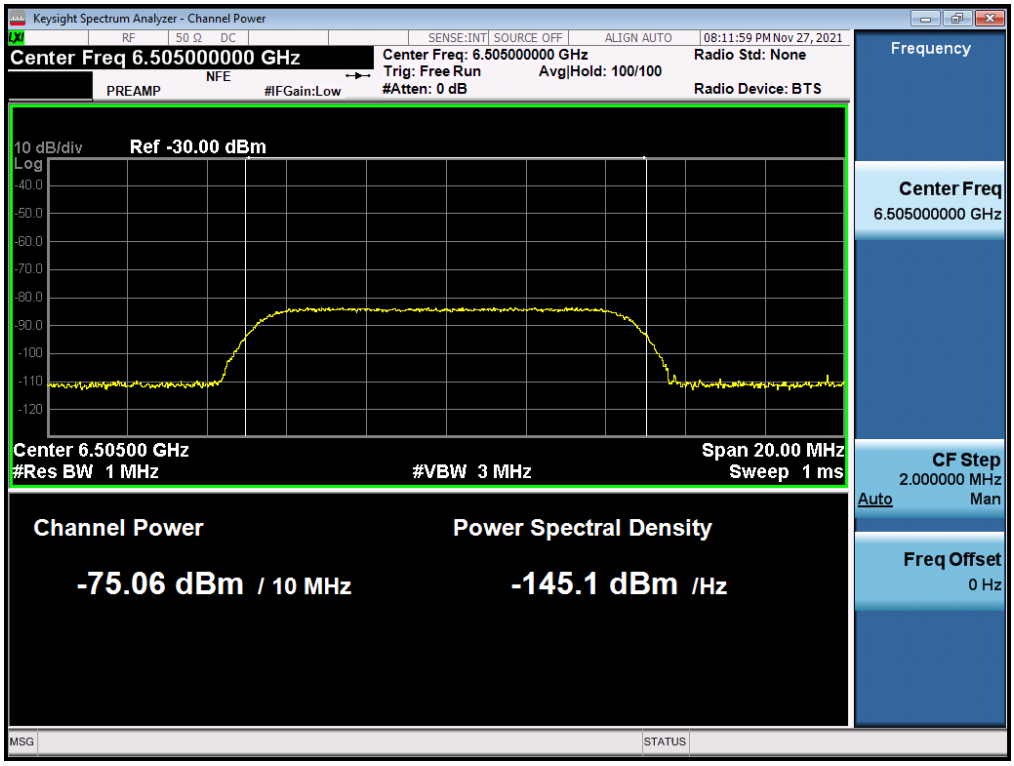


UNII 6

802.11ax HE160 Ch.111(6505 MHz) Incumbent signal

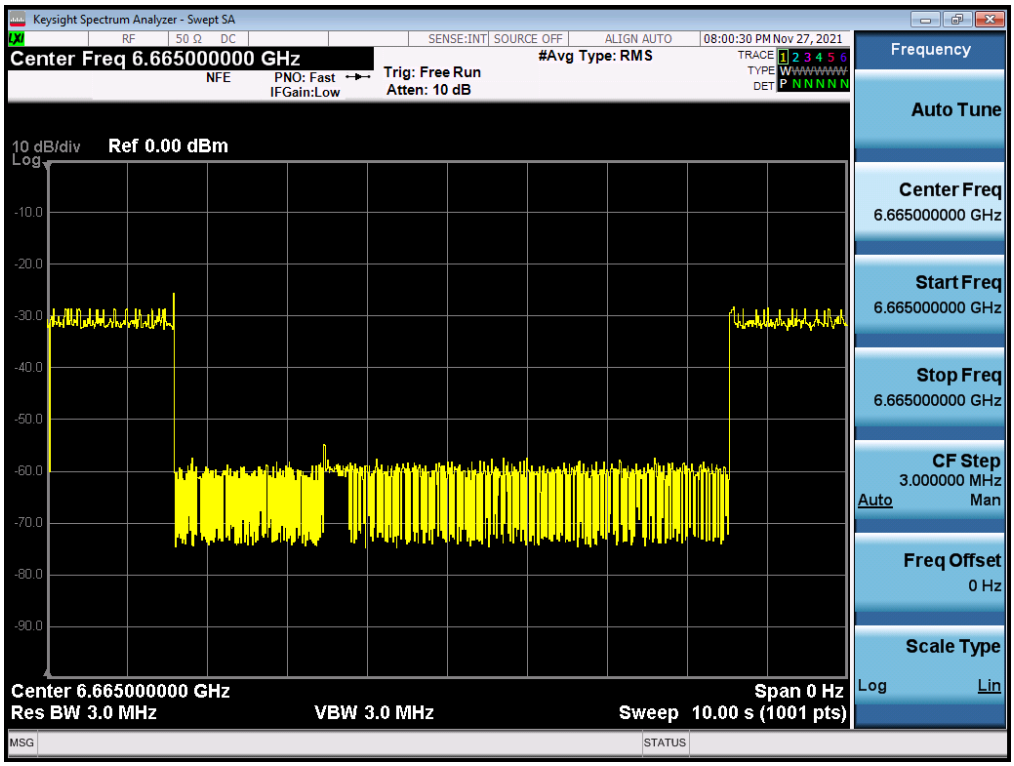


802.11ax HE160 Ch.111(6505 MHz) Detection Level

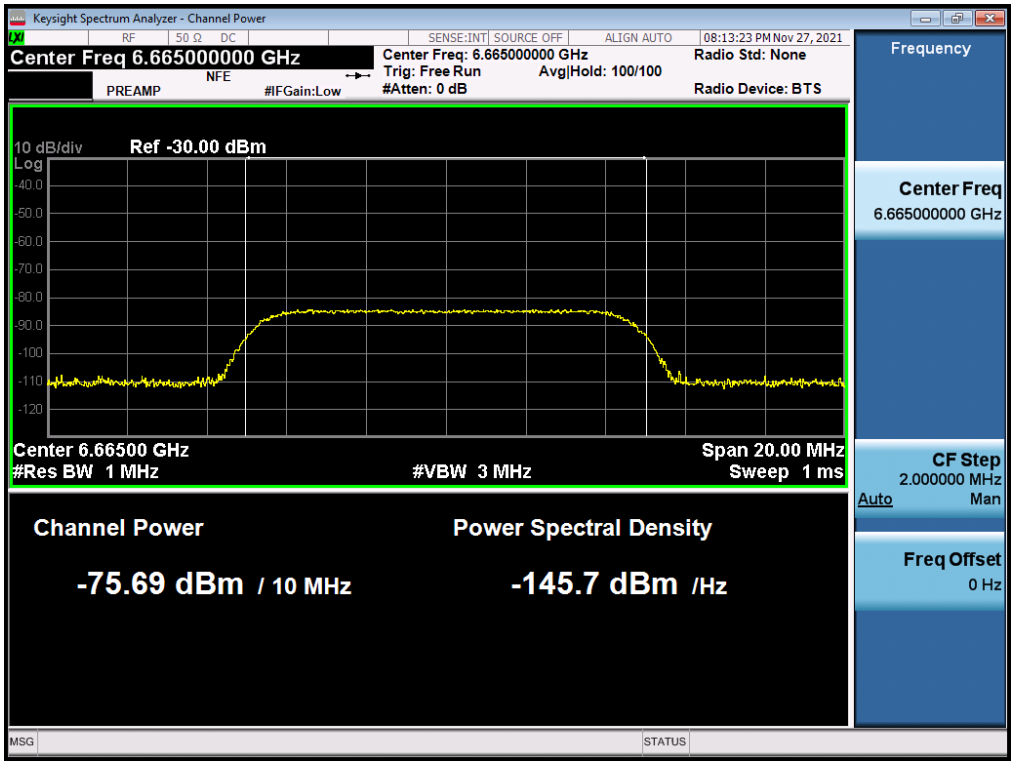


UNII 7

802.11ax HE160 Ch.143(6665 MHz) Incumbent signal

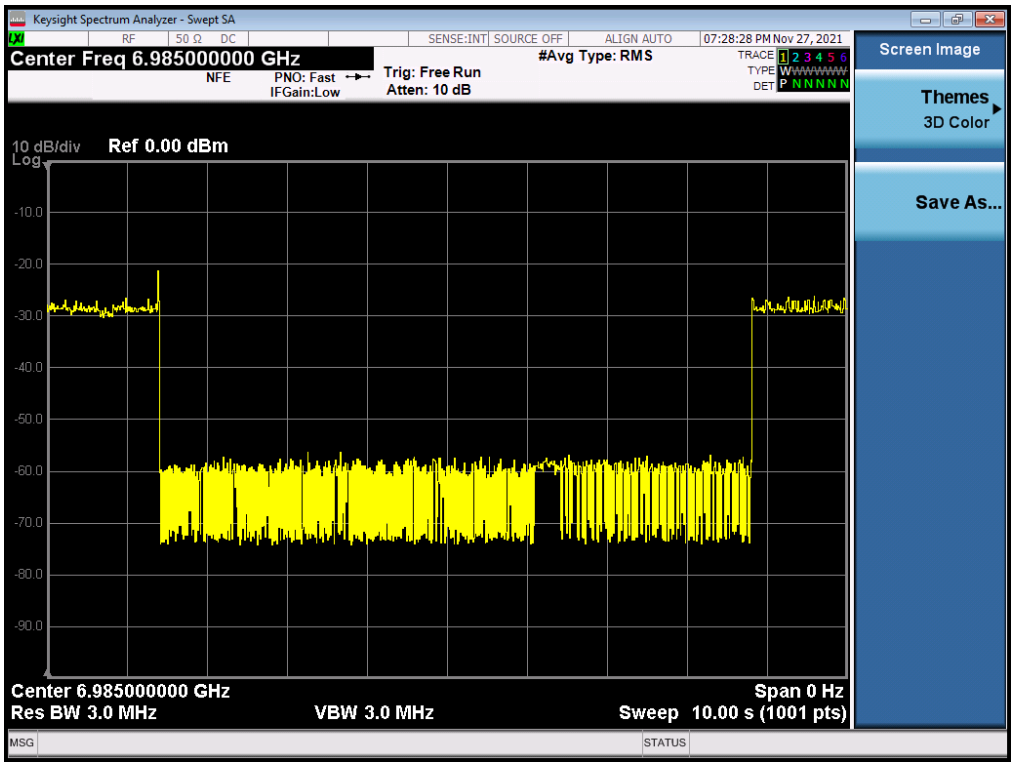


802.11ax HE160 Ch.143(6665 MHz) Detection Level



UNII 8

802.11ax HE160 Ch.207(6985 MHz) Incumbent signal



802.11ax HE160 Ch.207(6985 MHz) Detection Level