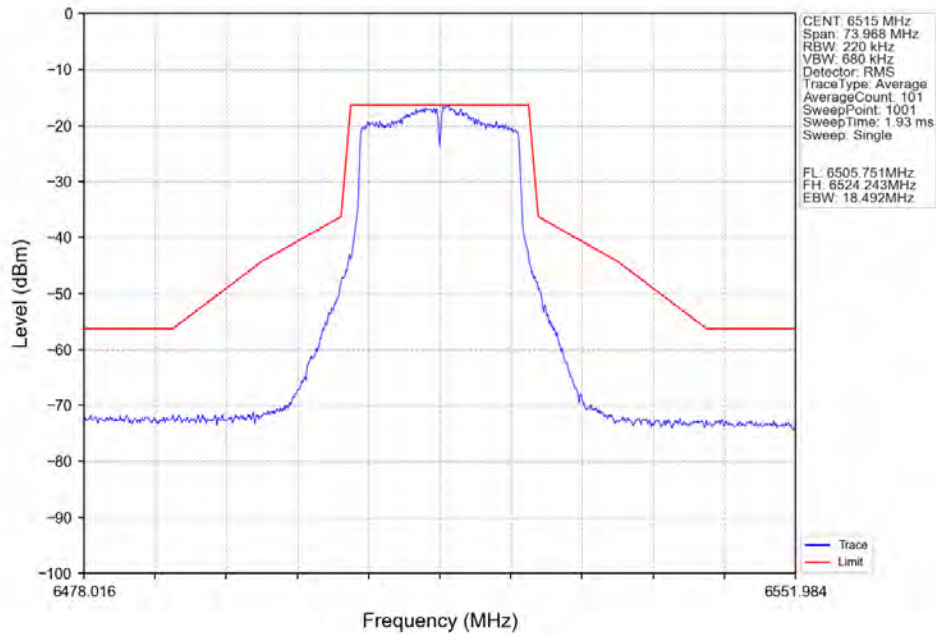
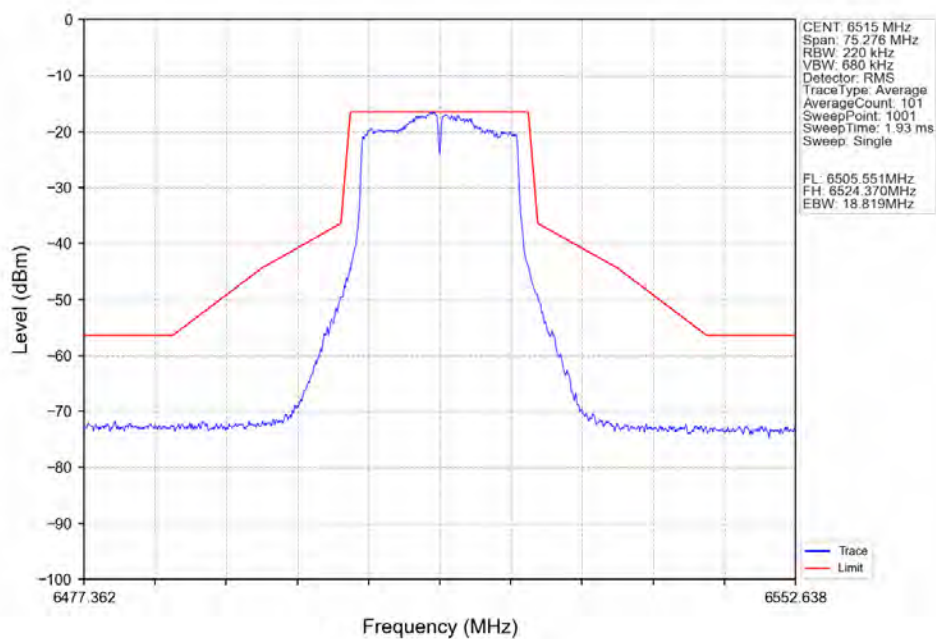


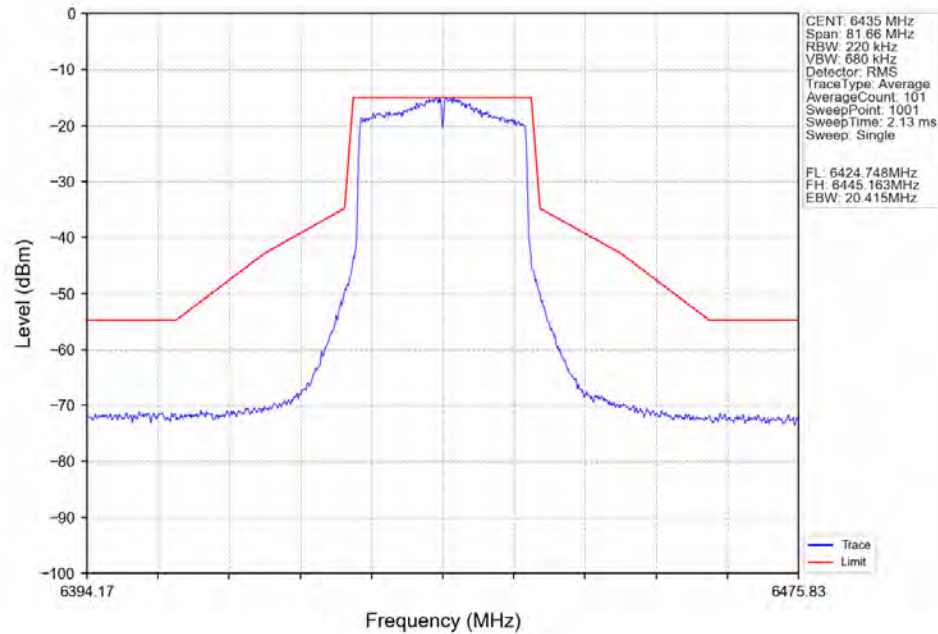
802.11a_HCH_6515MHz_Ant6_NTNV



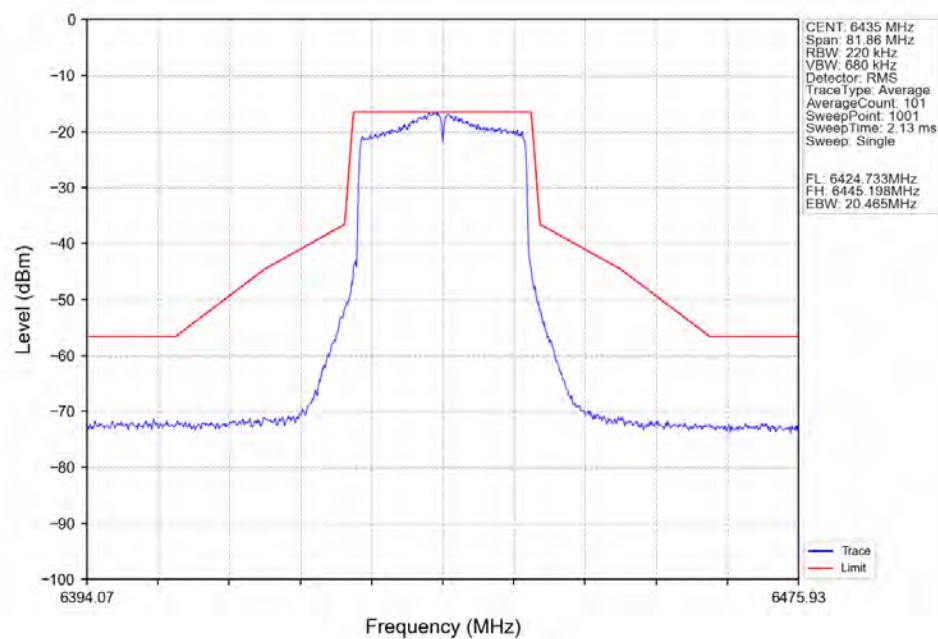
802.11a_HCH_6515MHz_Ant7_NTNV



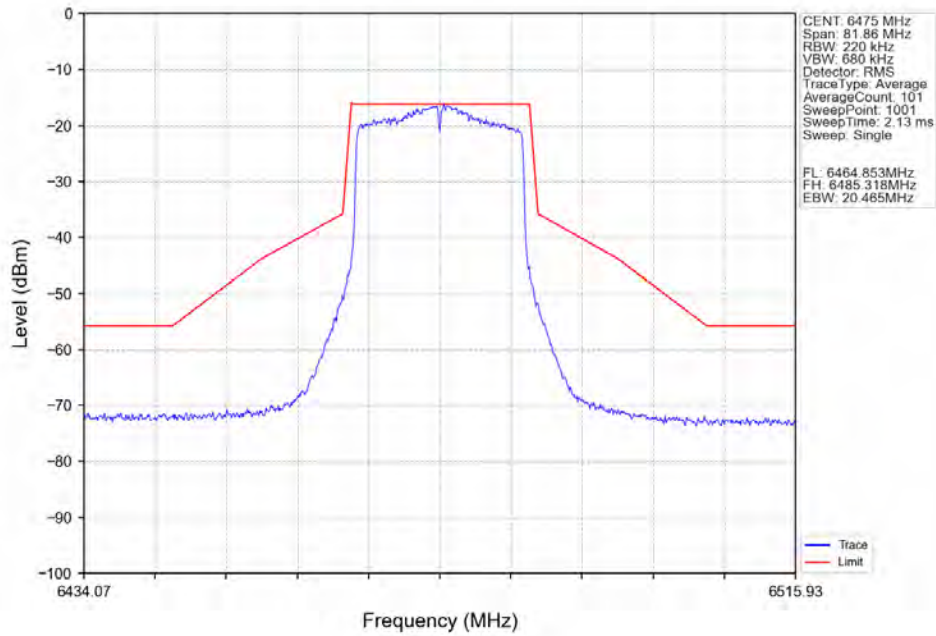
802.11ax(HEW20)_LCH_6435MHz_SU_ / Ant6_NTNV



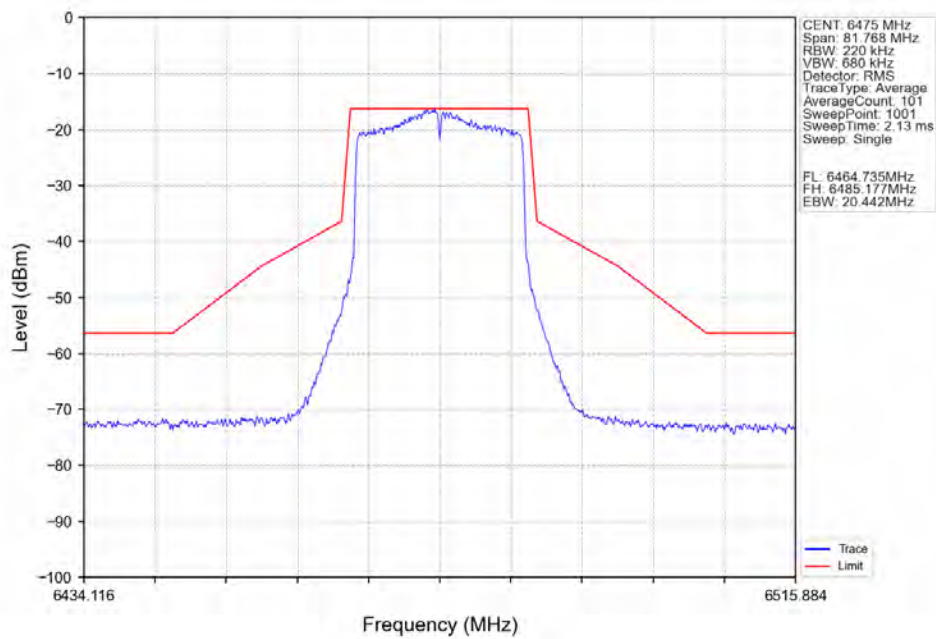
802.11ax(HEW20)_LCH_6435MHz_SU_ / Ant7_NTNV



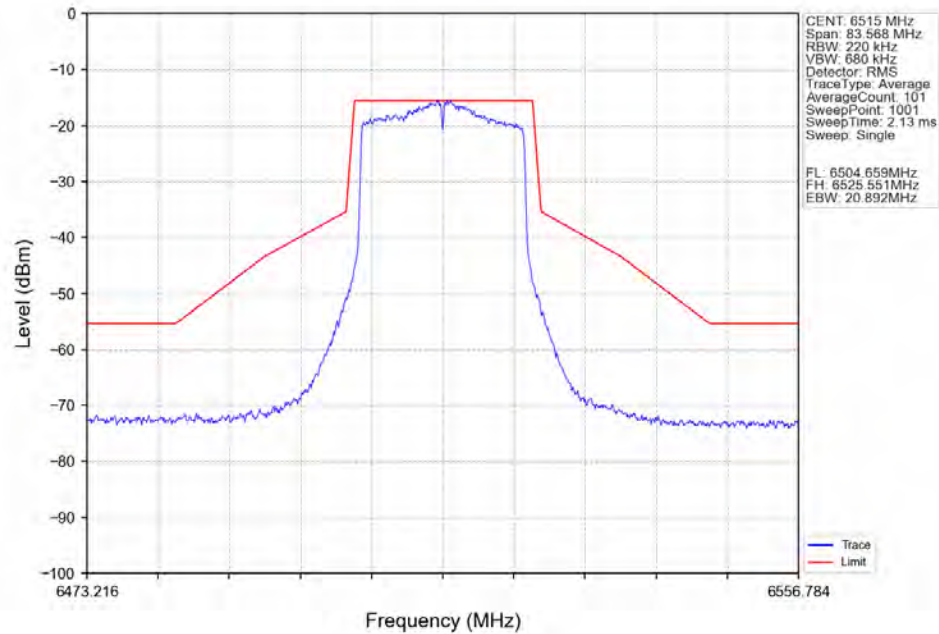
802.11ax(HEW20)_MCH_6475MHz_SU / Ant6_NTNV



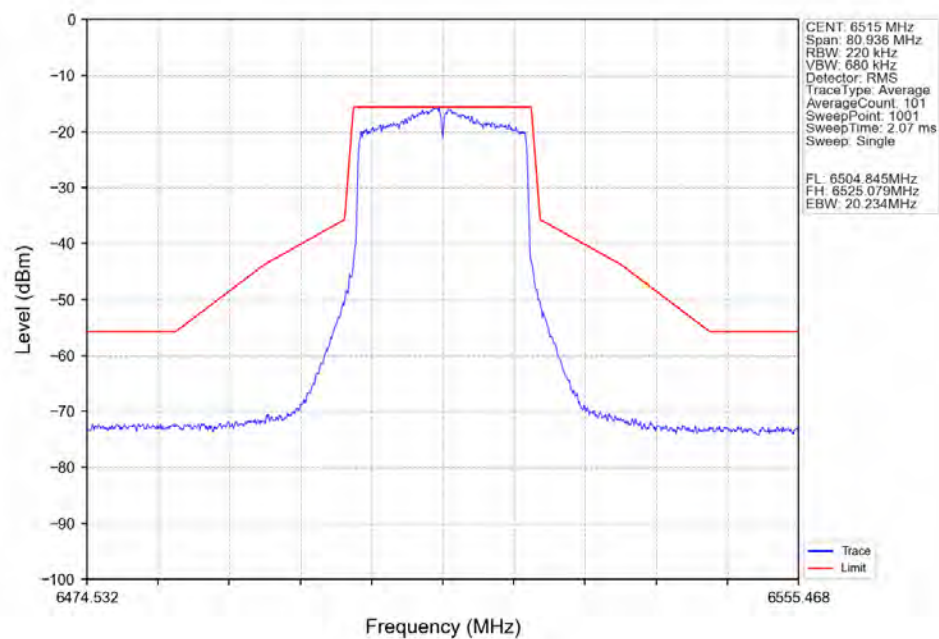
802.11ax(HEW20)_MCH_6475MHz_SU / Ant7_NTNV



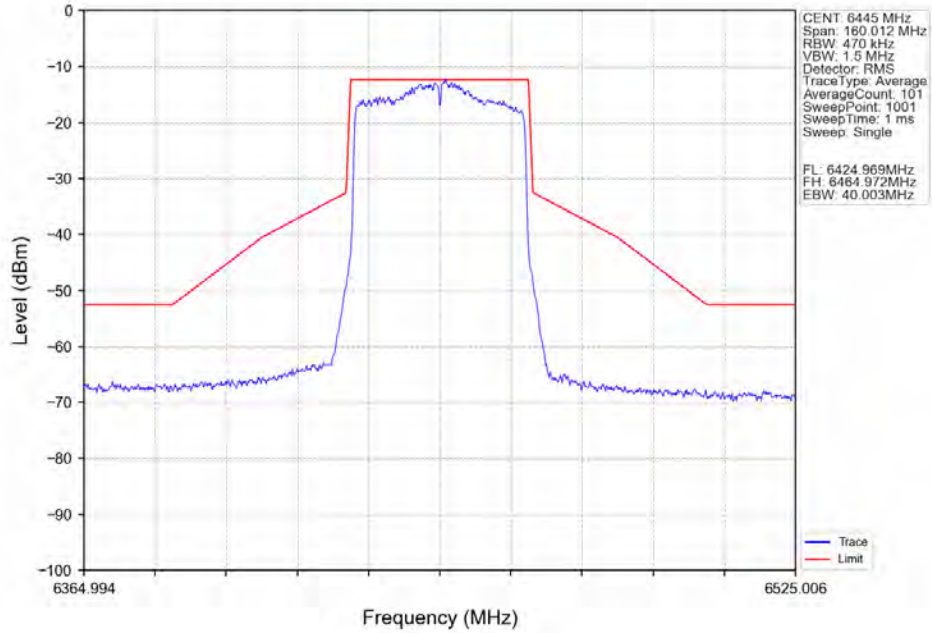
802.11ax(HEW20) HCH_6515MHz_SU / Ant6 NTNv



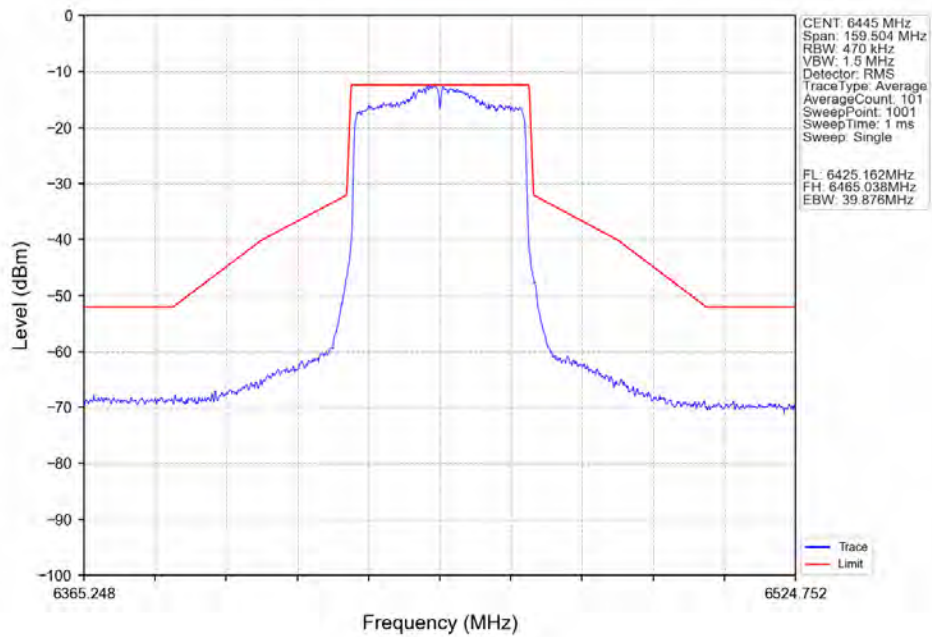
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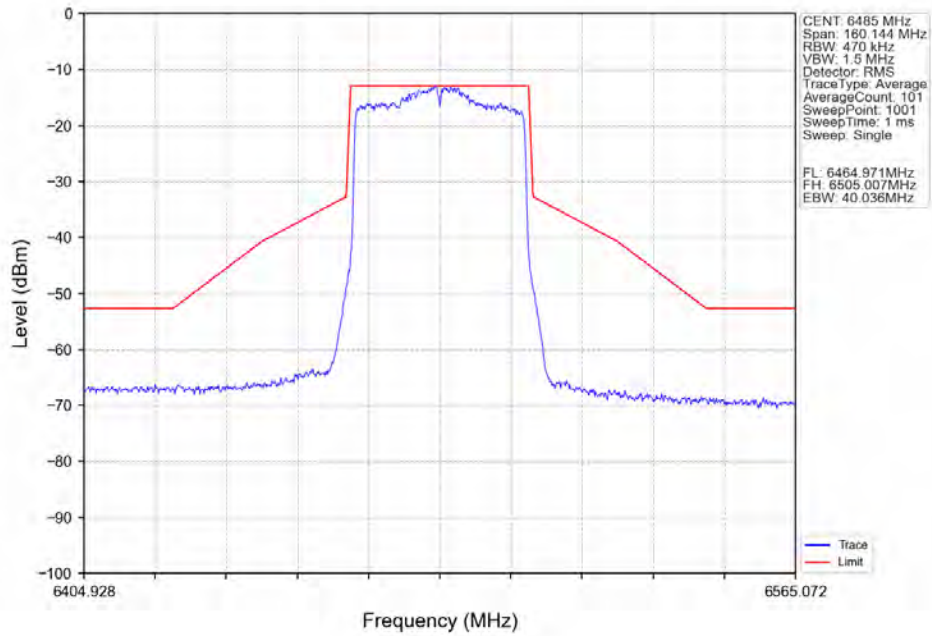
802.11ax(HEW40)_LCH_6445MHz_SU / Ant6_NTNV



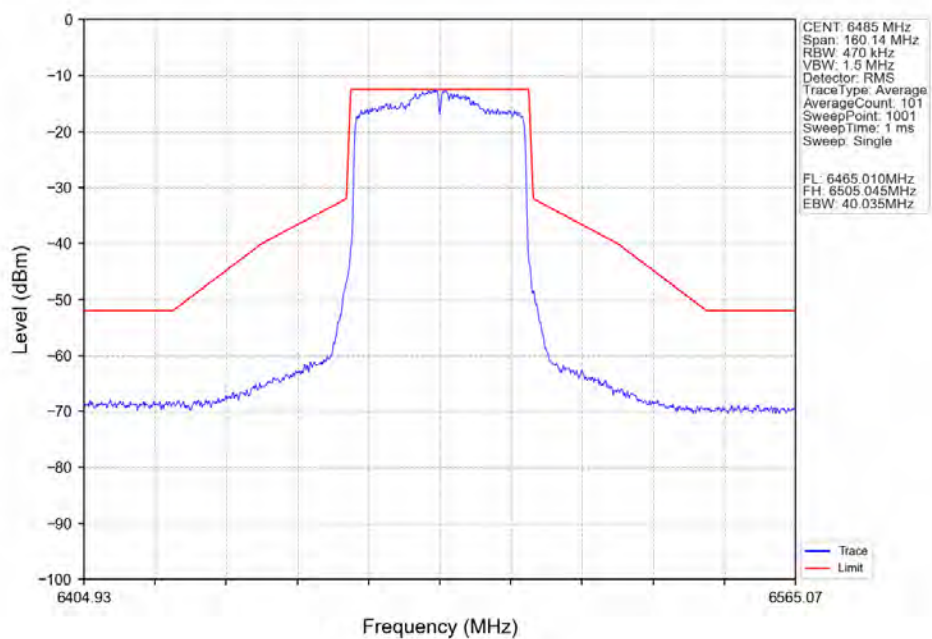
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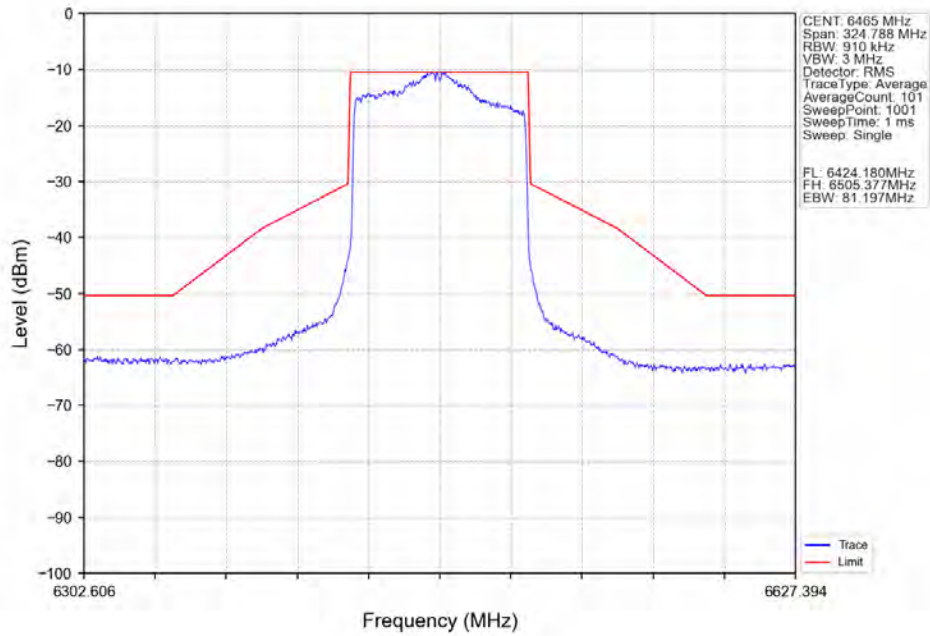
802.11ax(HEW40)_MCH_6485MHz_SU / Ant6 NTN



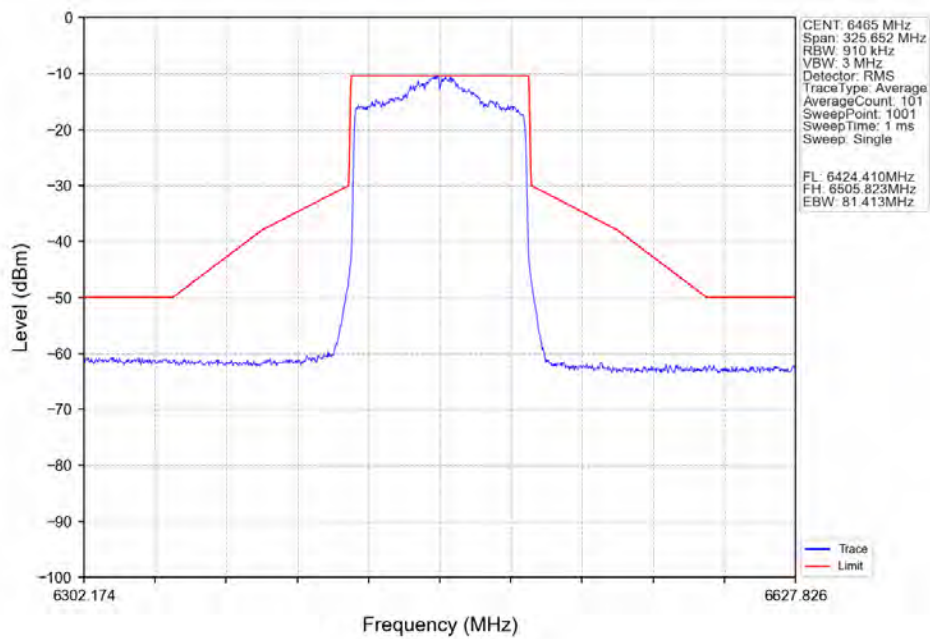
802.11ax(HEW40)_MCH_6485MHz_SU / Ant7 NTN



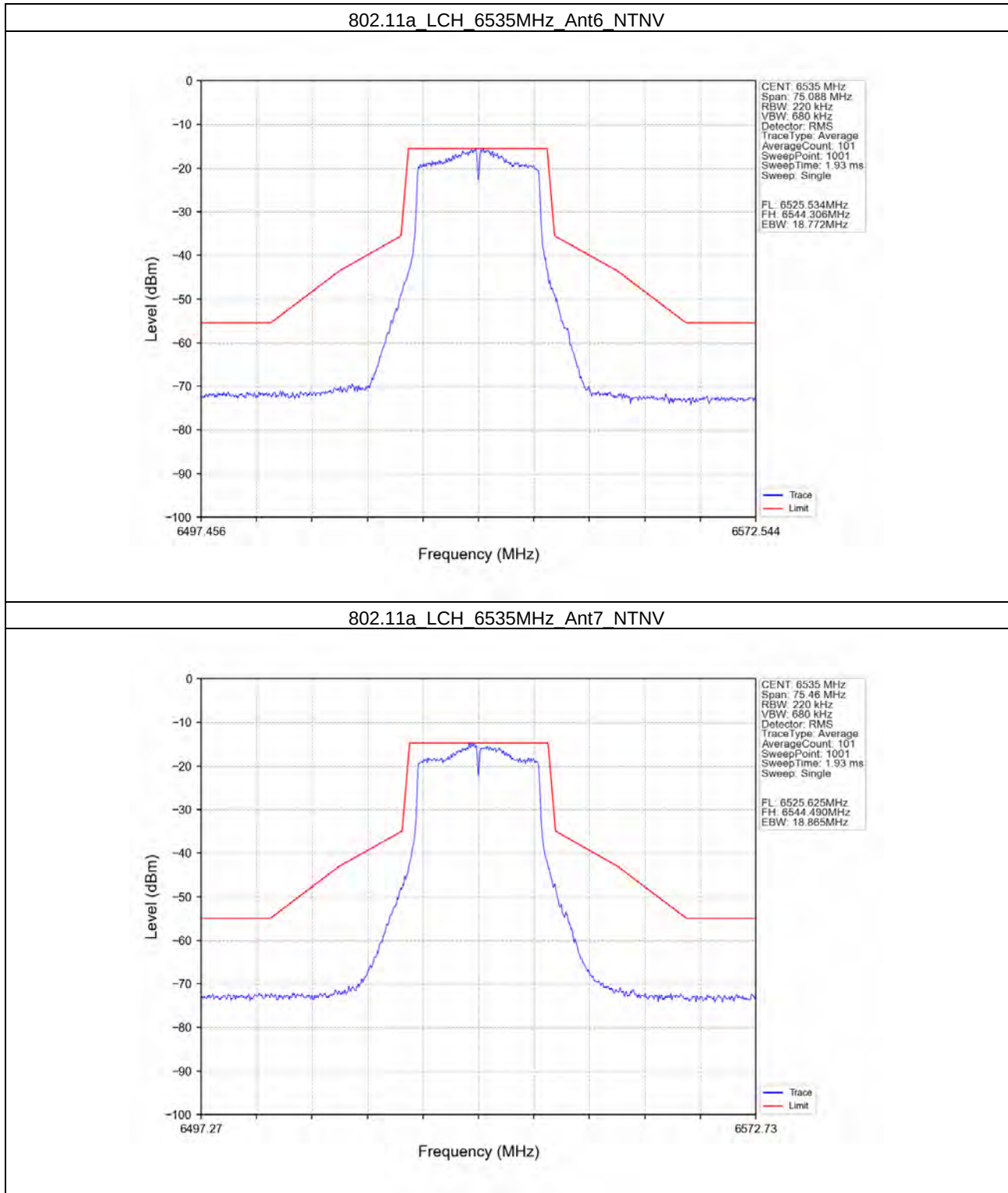
802.11ax(HEW80)_LCH_6465MHz_SU / Ant6_NTNV



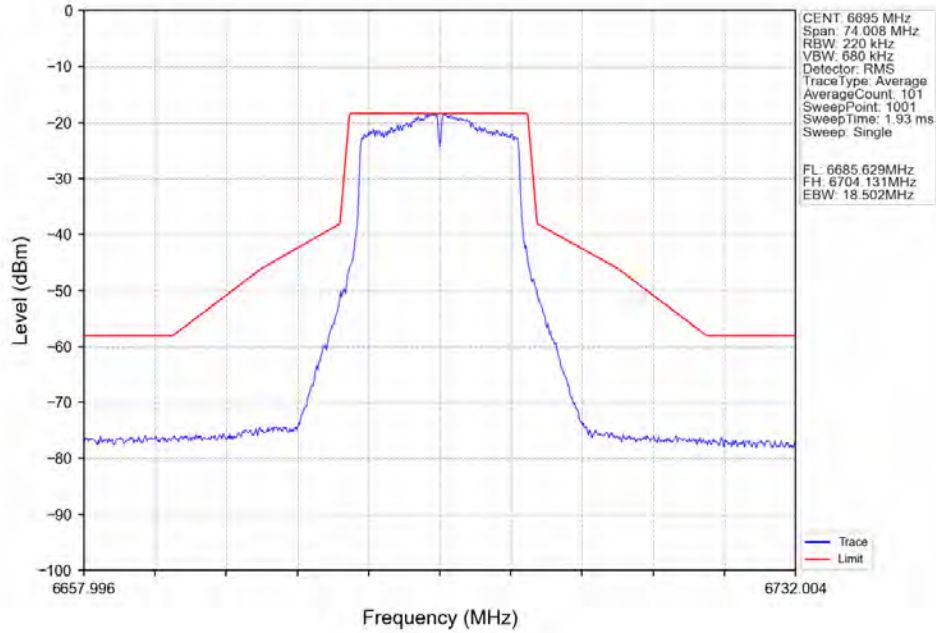
802.11ax(HEW80)_LCH_6465MHz_SU / Ant7_NTNV



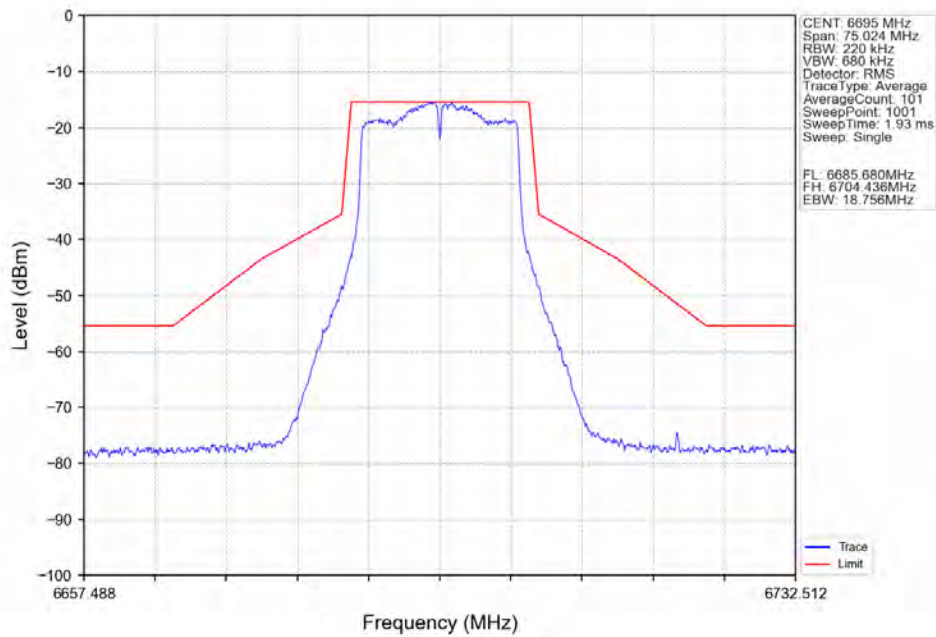
5.2.3 EMask



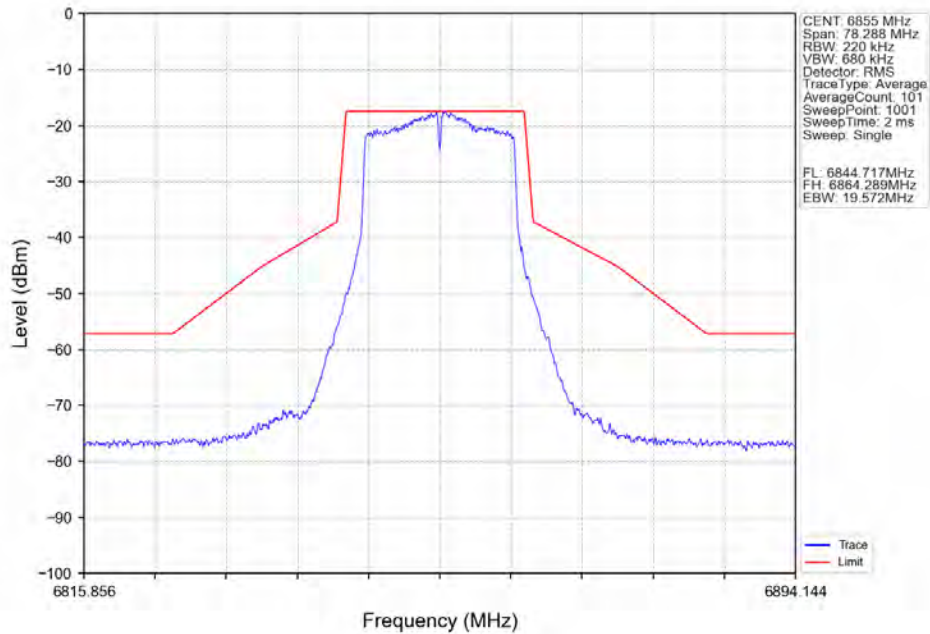
802.11a_MCH_6695MHz_Ant6_NTNV



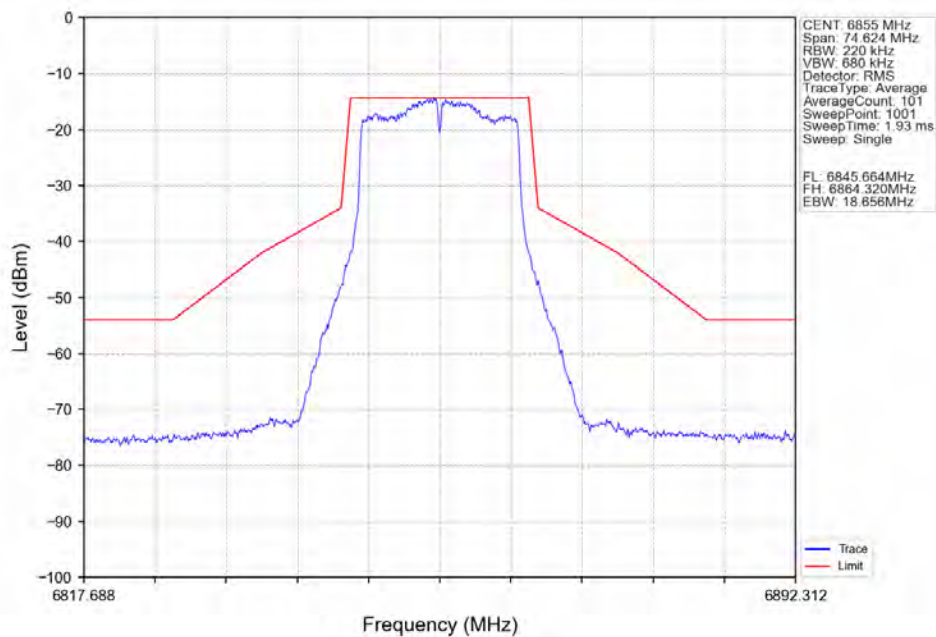
802.11a_MCH_6695MHz_Ant7_NTNV



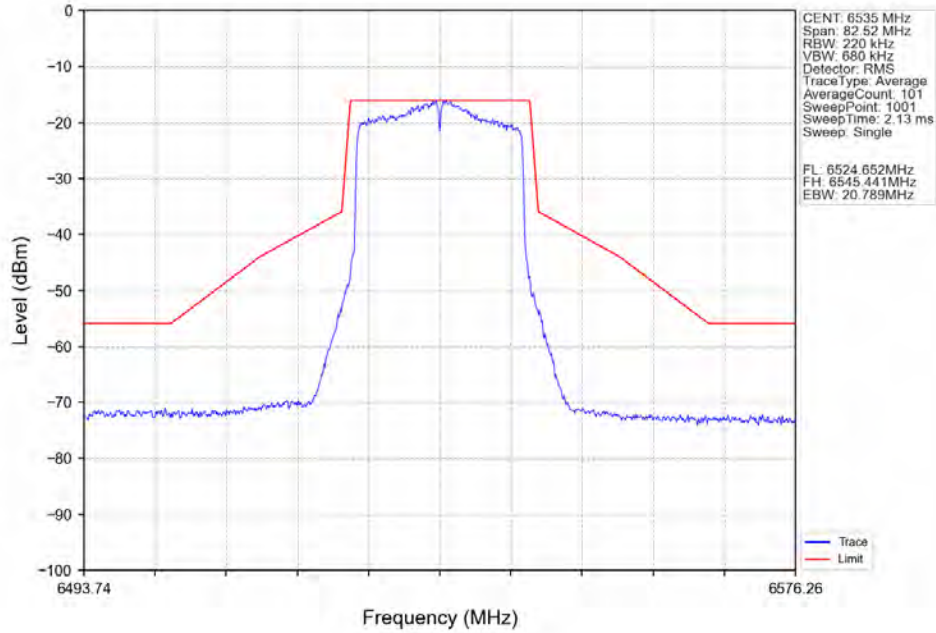
802.11a_HCH_6855MHz_Ant6_NTNV



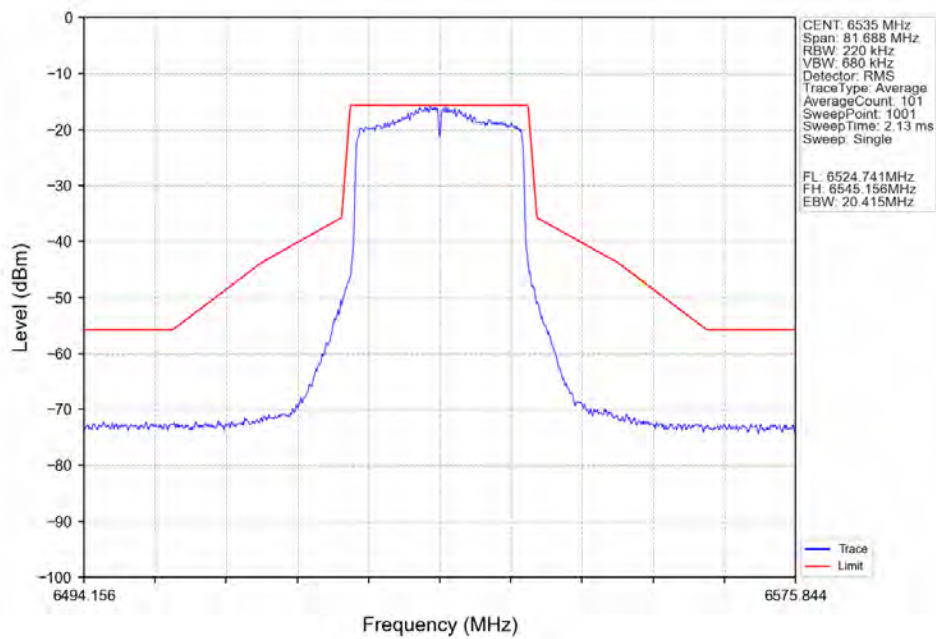
802.11a_HCH_6855MHz_Ant7_NTNV



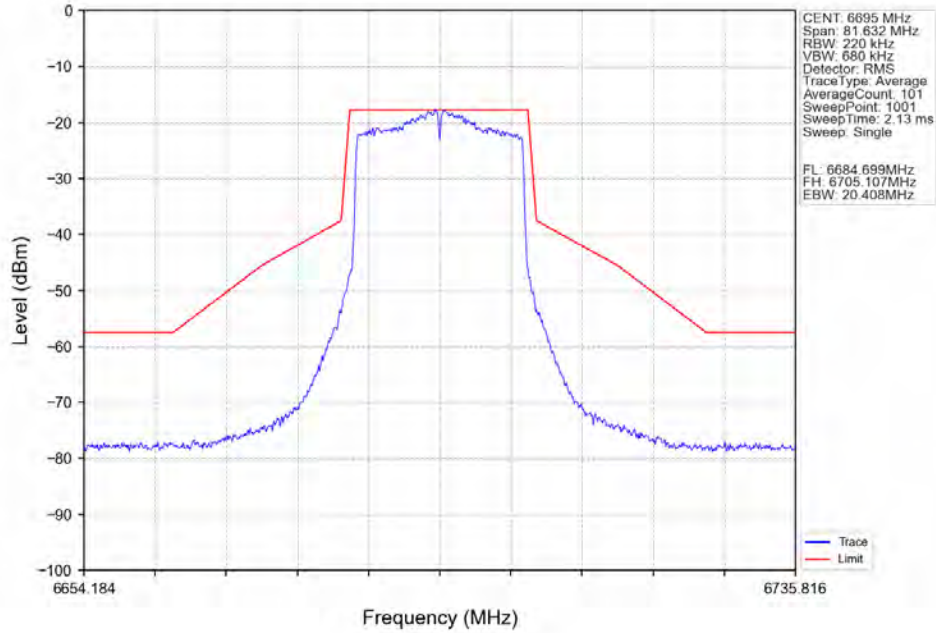
802.11ax(HEW20)_LCH_6535MHz_SU_ / Ant6_NTNV



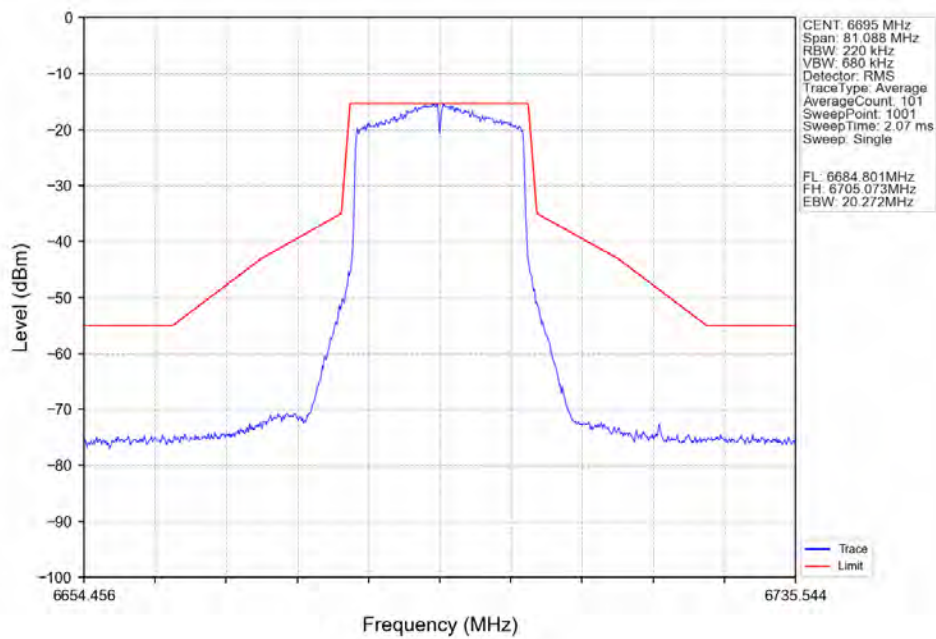
802.11ax(HEW20)_LCH_6535MHz_SU_ / Ant7_NTNV



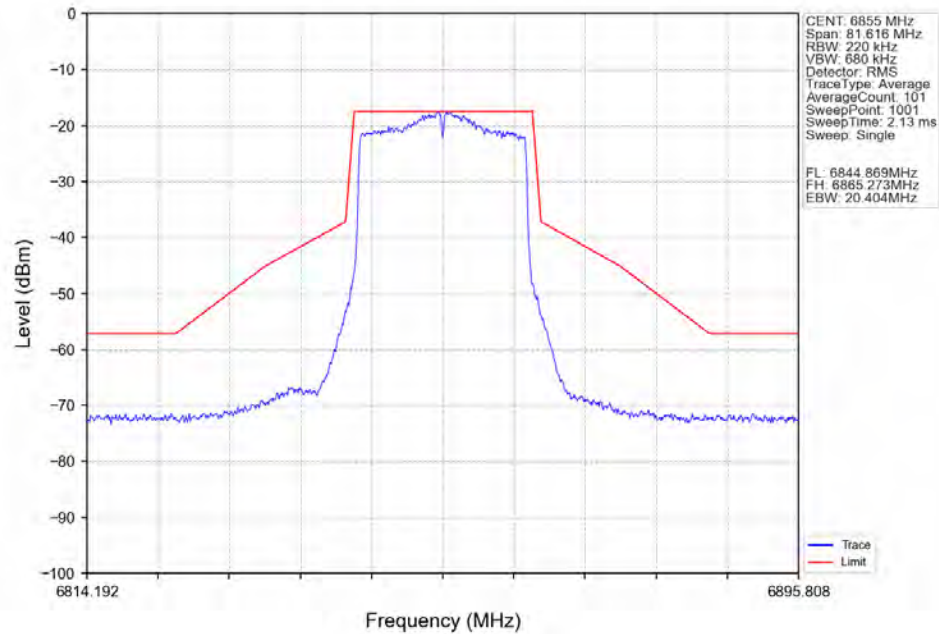
802.11ax(HEW20)_MCH_6695MHz_SU / Ant6_NTNV



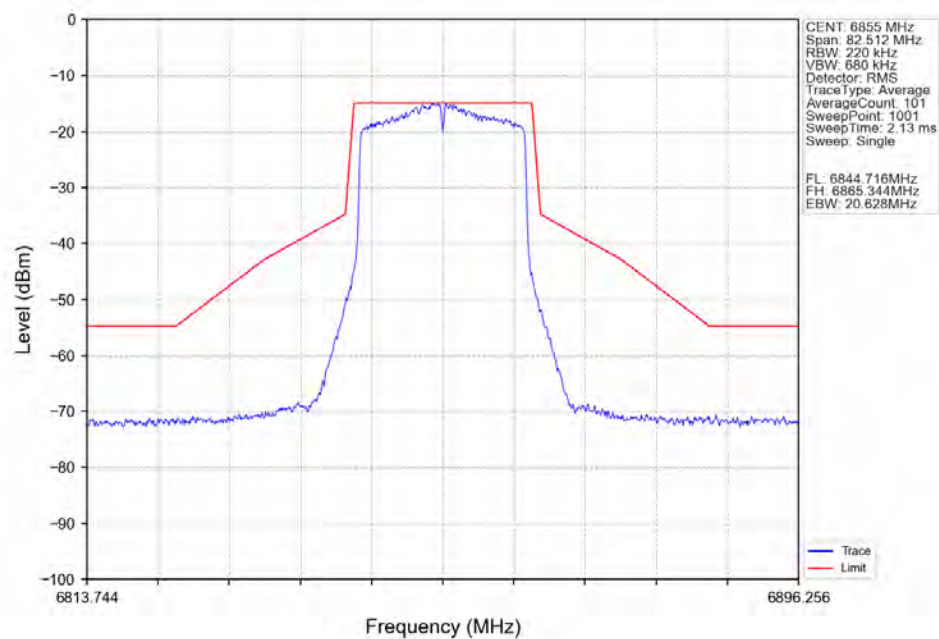
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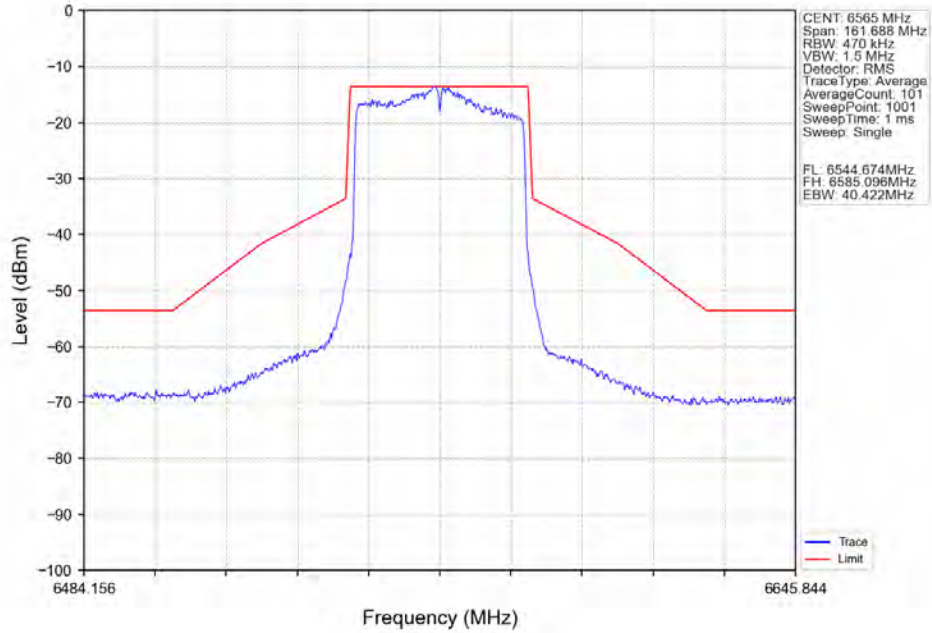
802.11ax(HEW20) HCH_6855MHz_SU / Ant6 NTN



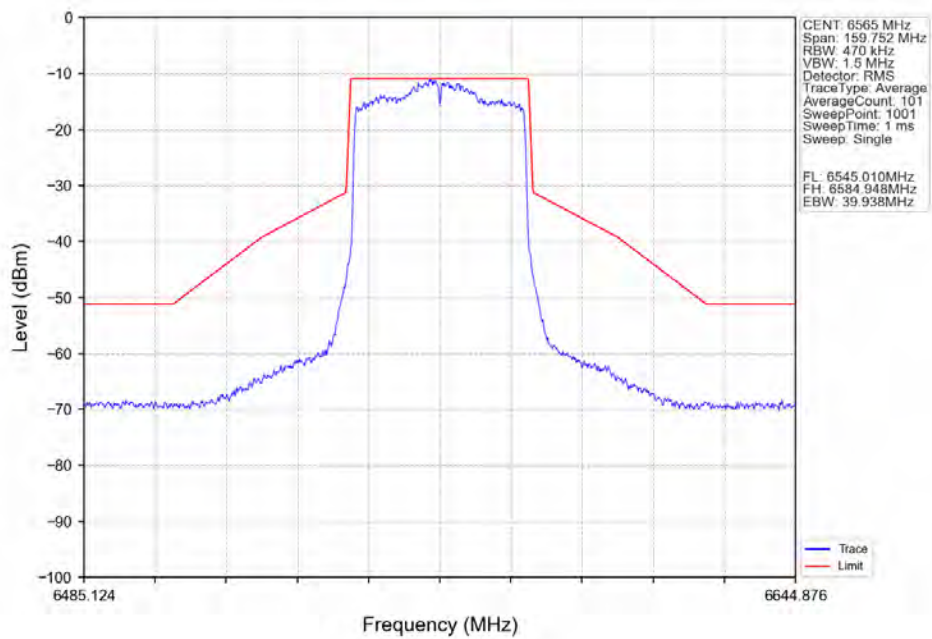
802.11ax(HEW20) HCH_6855MHz_SU / Ant7 NTN



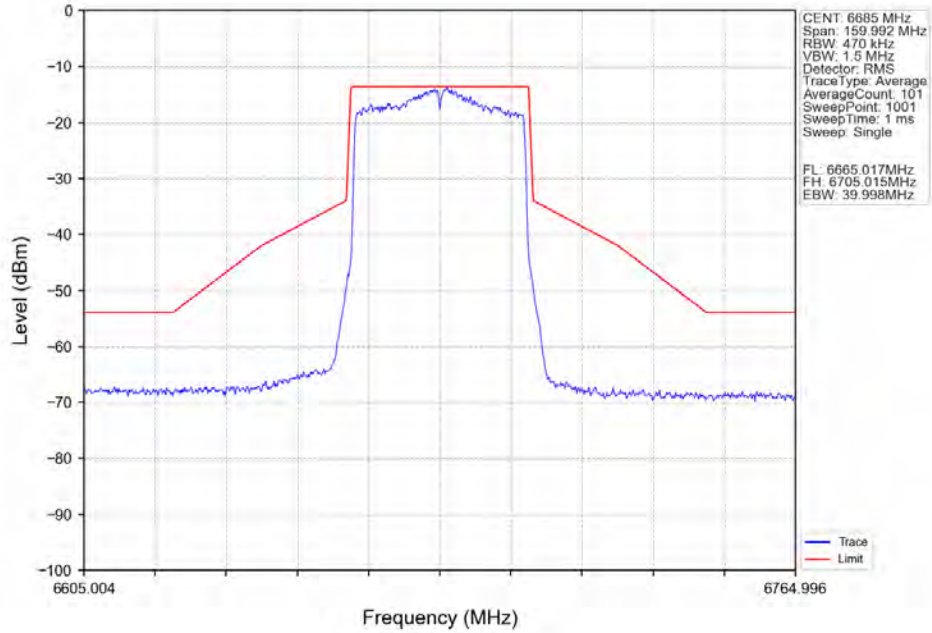
802.11ax(HEW40)_LCH_6565MHz_SU / Ant6_NTNV



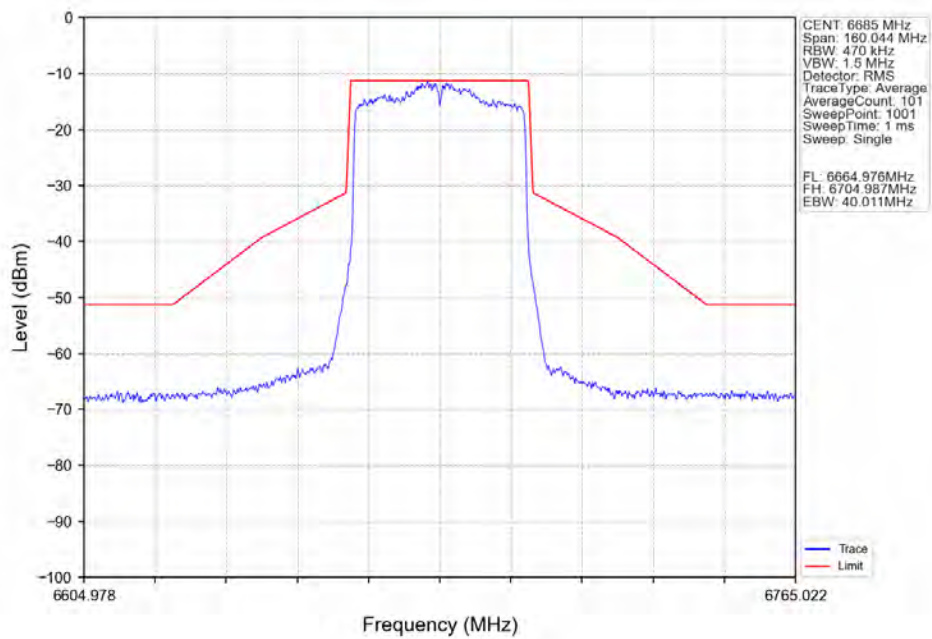
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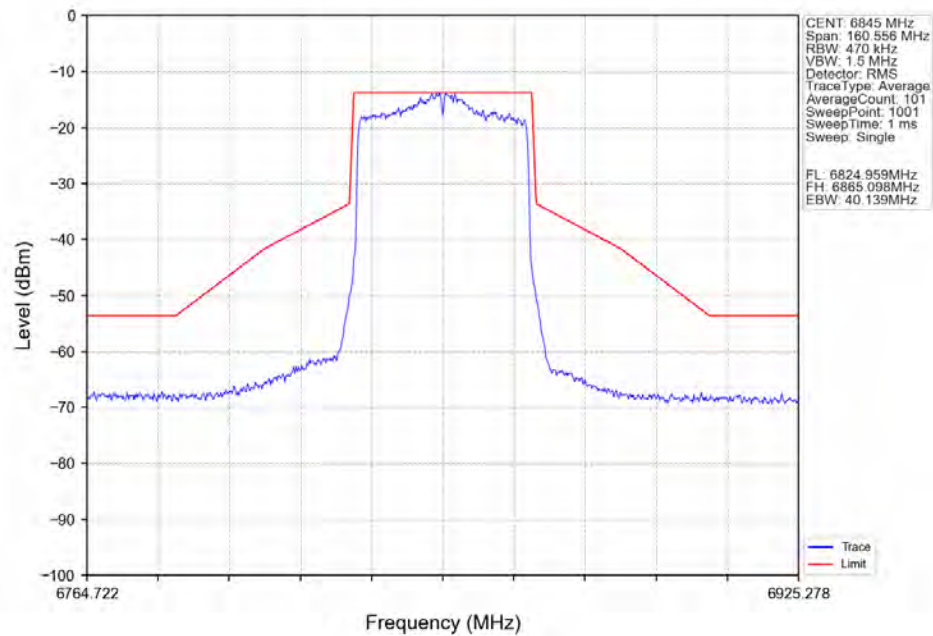
802.11ax(HEW40)_MCH_6685MHz_SU / Ant6_NTNV



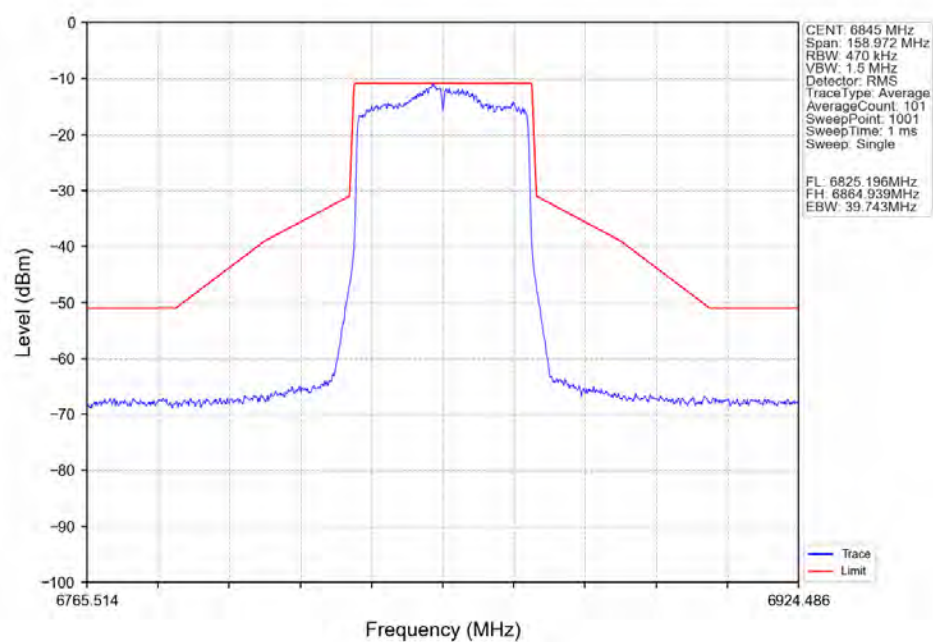
802.11ax(HEW40)_MCH_6685MHz_SU / Ant7_NTNV



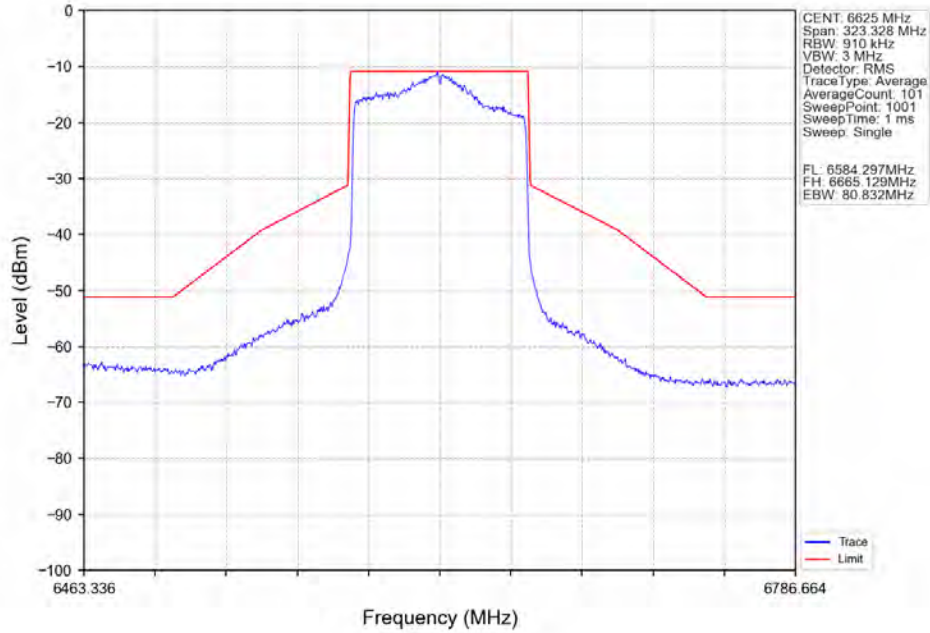
802.11ax(HEW40) HCH_6845MHz_SU / Ant6 NTN



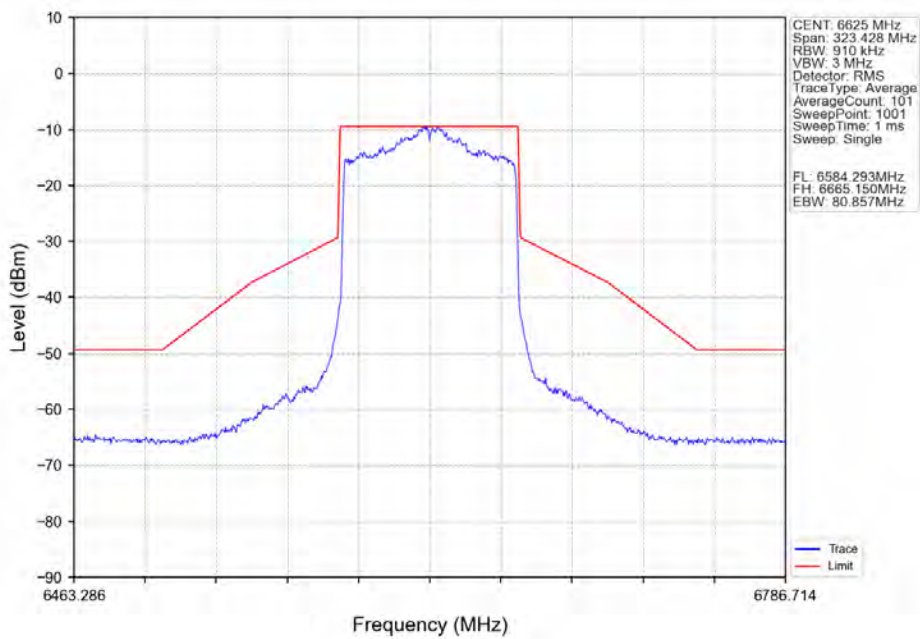
802.11ax(HEW40) HCH_6845MHz_SU / Ant7 NTN



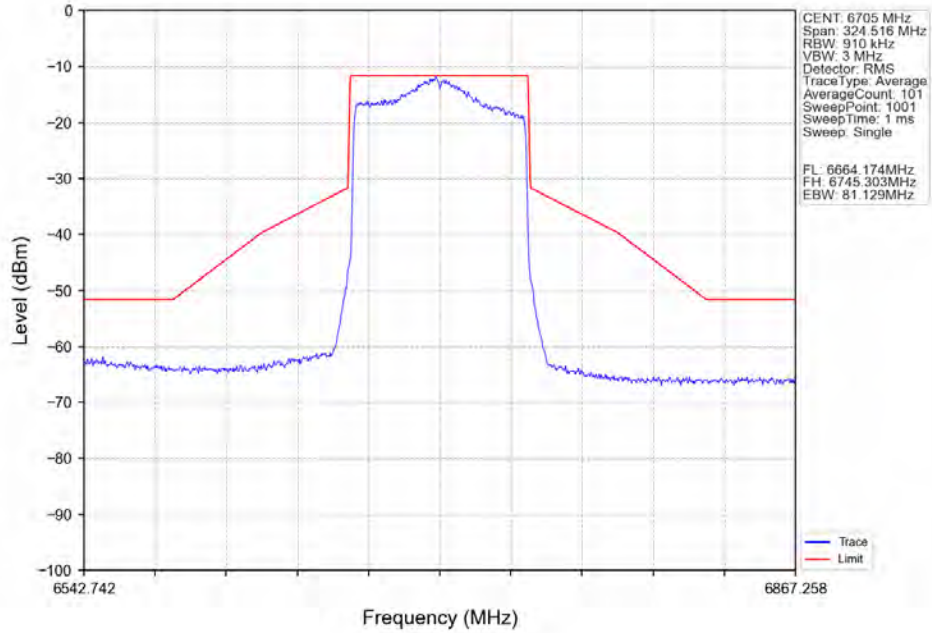
802.11ax(HEW80)_LCH_6625MHz_SU_ / Ant6_NTNV



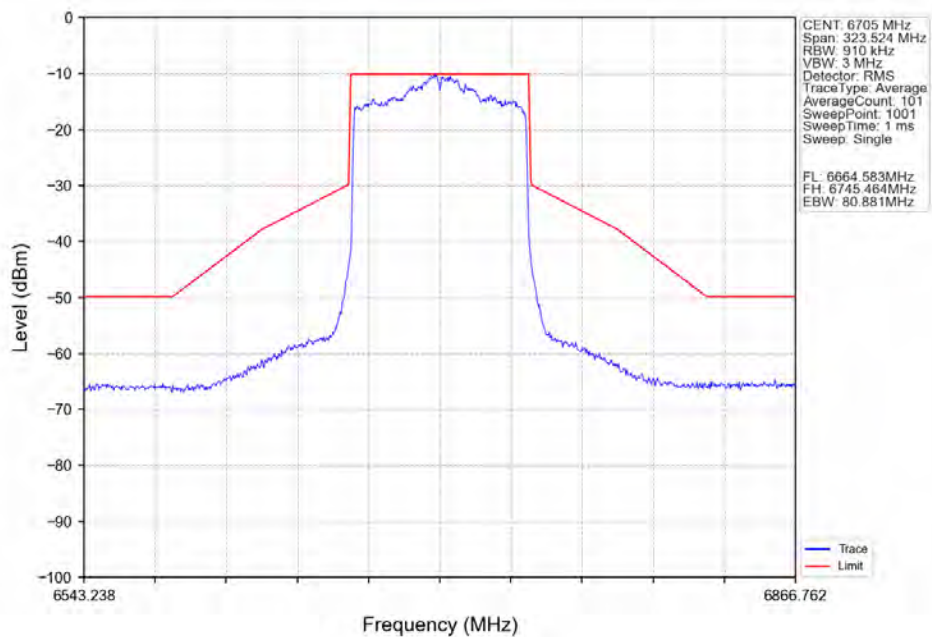
802.11ax(HEW80)_LCH_6625MHz_SU_ / Ant7_NTNV



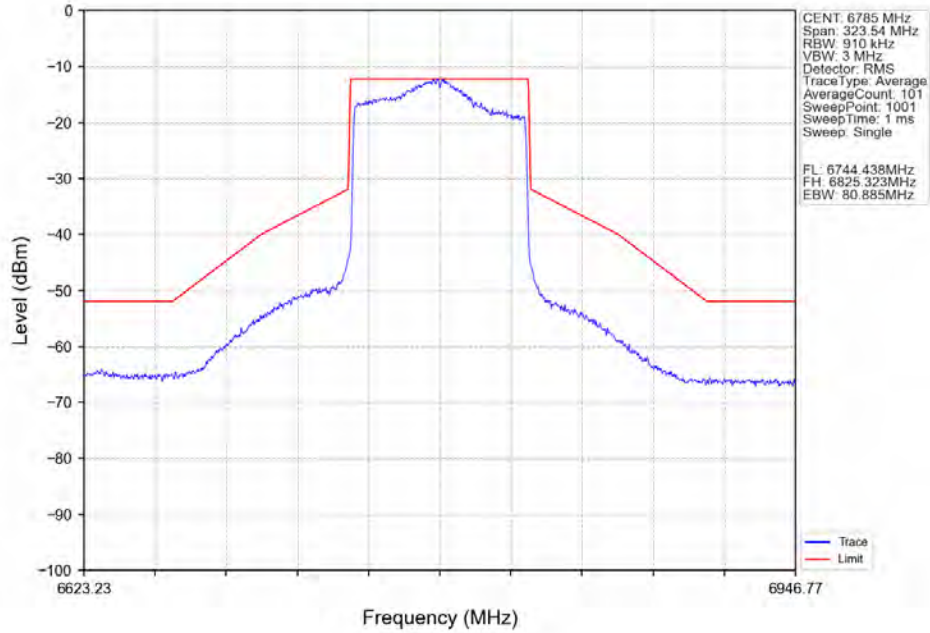
802.11ax(HEW80)_MCH_6705MHz_SU / Ant6 NTN



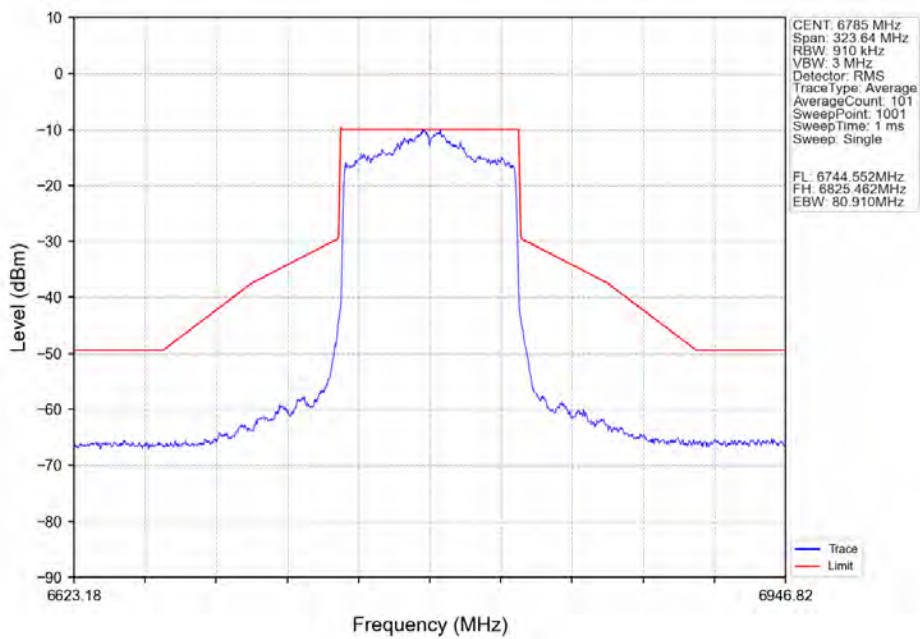
802.11ax(HEW80)_MCH_6705MHz_SU / Ant7 NTN



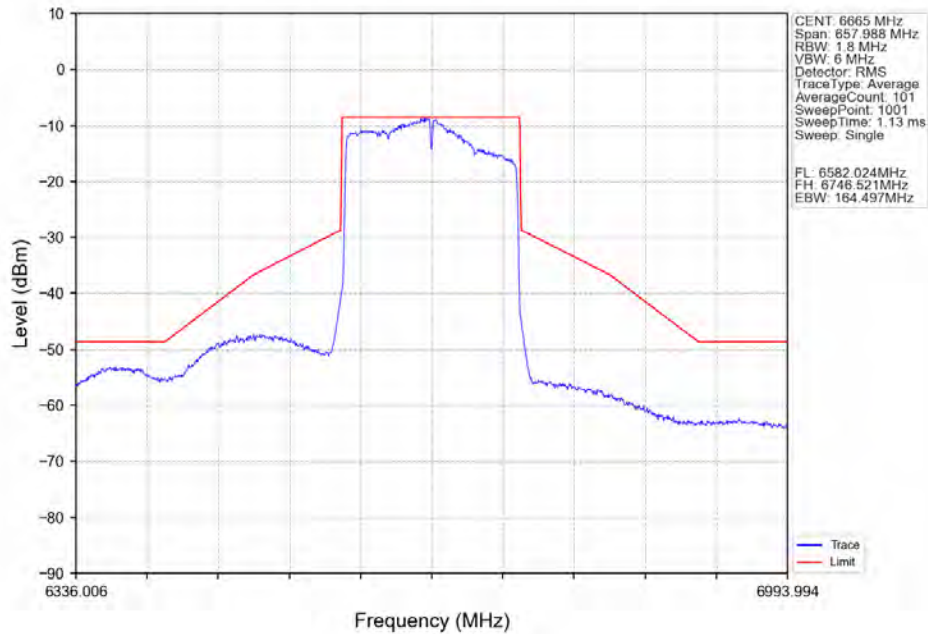
802.11ax(HEW80) HCH_6785MHz_SU / Ant6 NTN



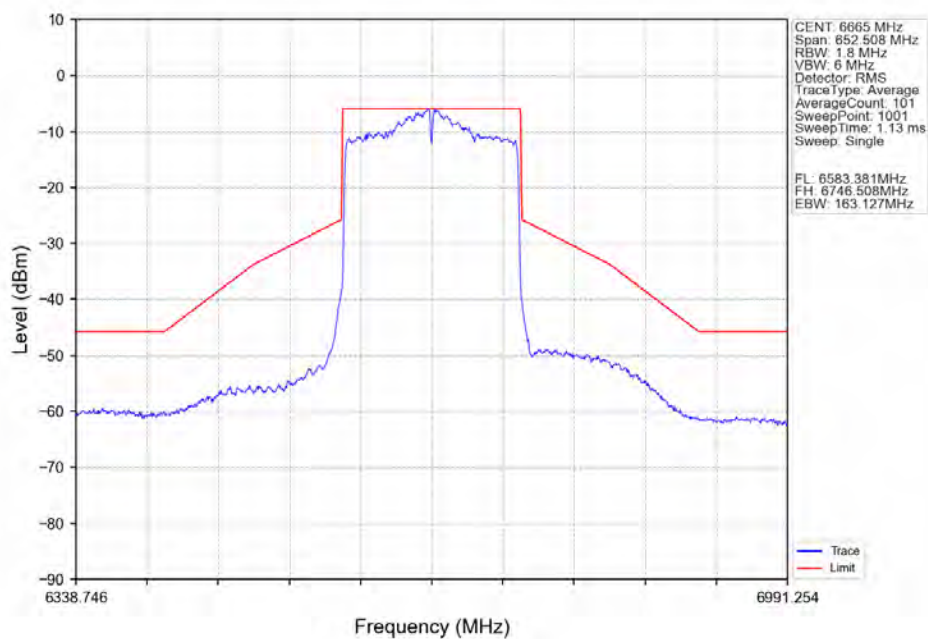
802.11ax(HEW80) HCH_6785MHz_SU / Ant7 NTN



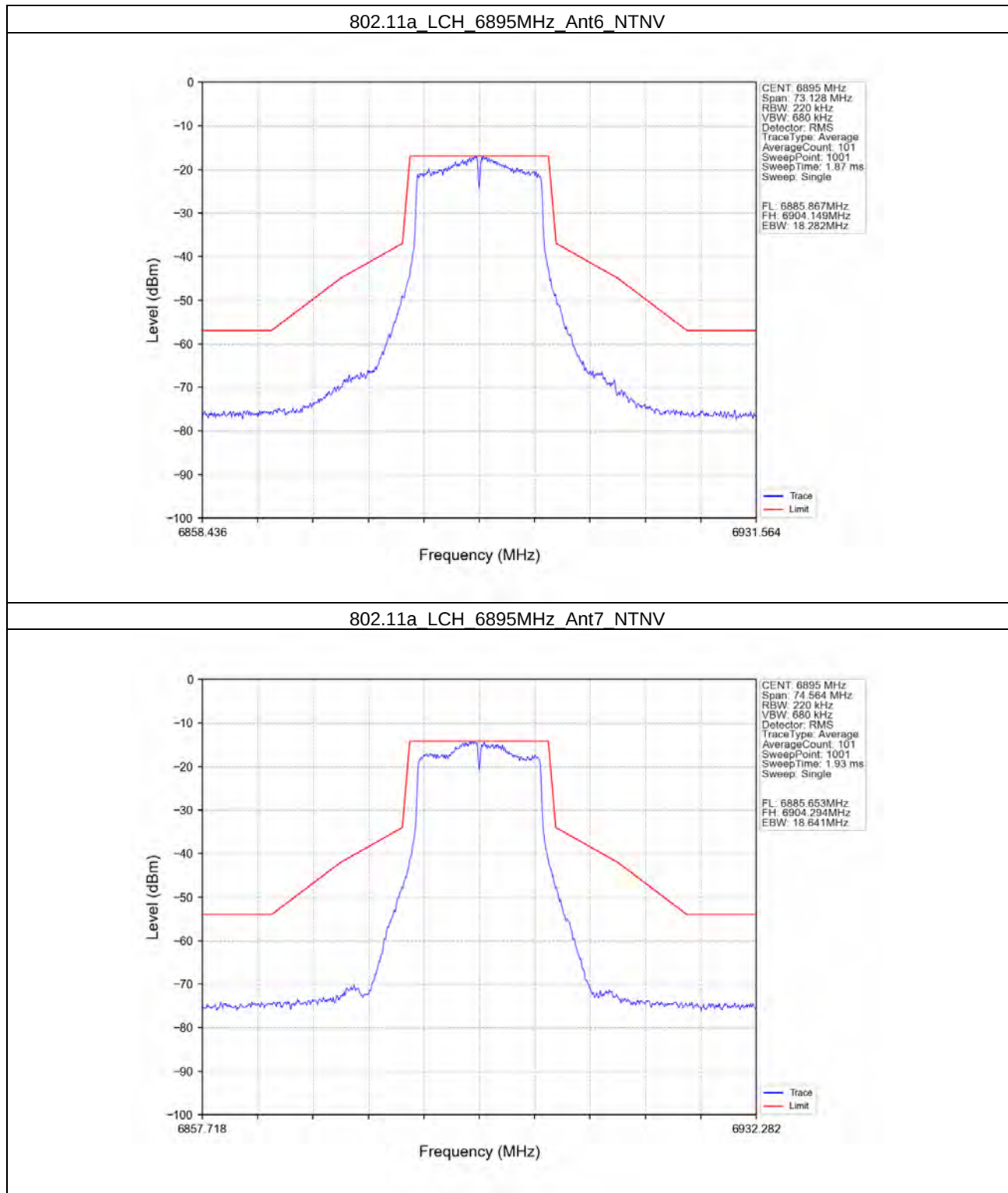
802.11ax(HEW160)_MCH_6665MHz_SU_/_Ant6_NTNV



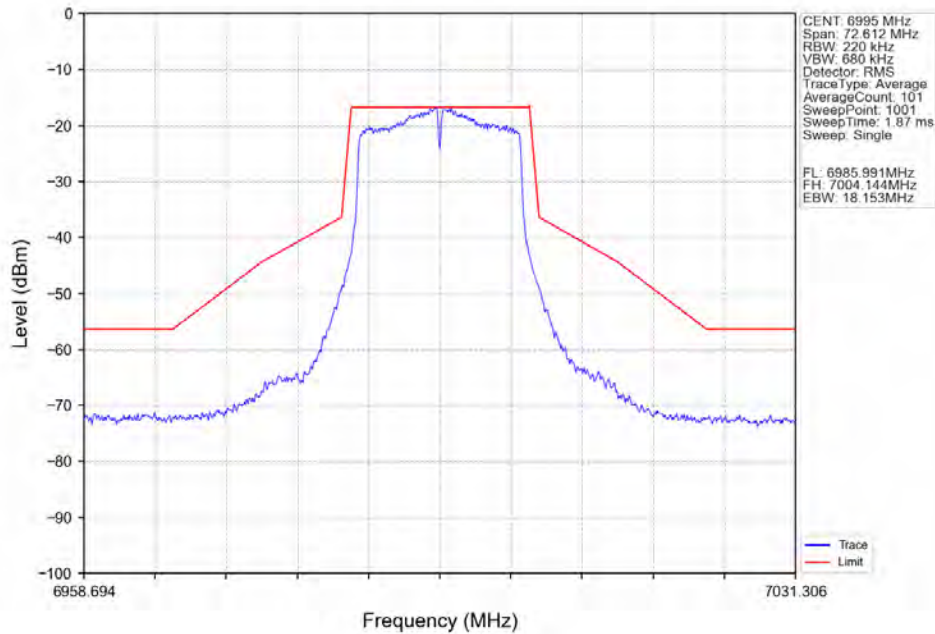
802.11ax(HEW160)_MCH_6665MHz_SU_/_Ant7_NTNV



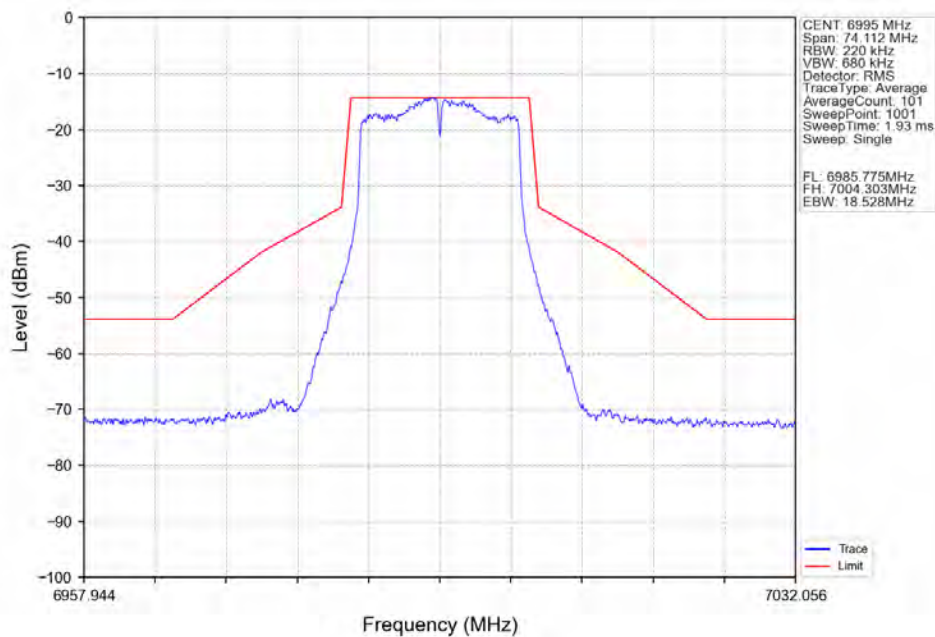
5.2.4 EMask



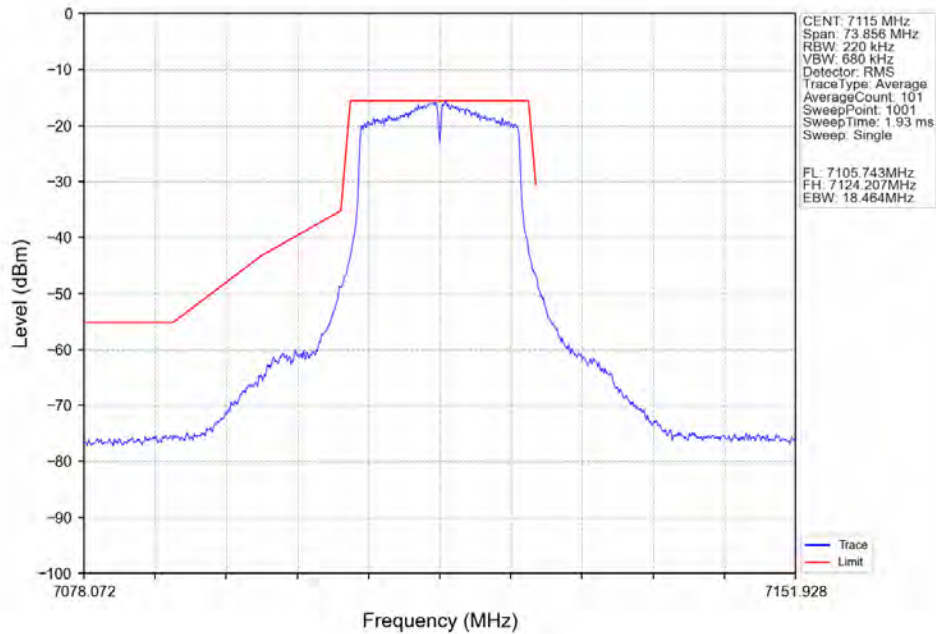
802.11a_MCH_6995MHz_Ant6_NTNV



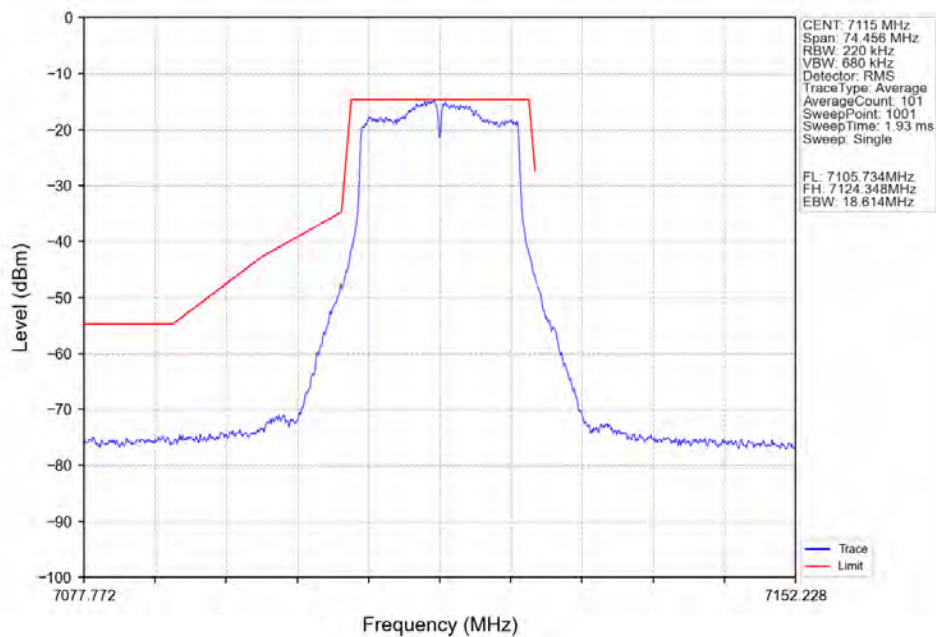
802.11a_MCH_6995MHz_Ant7_NTNV



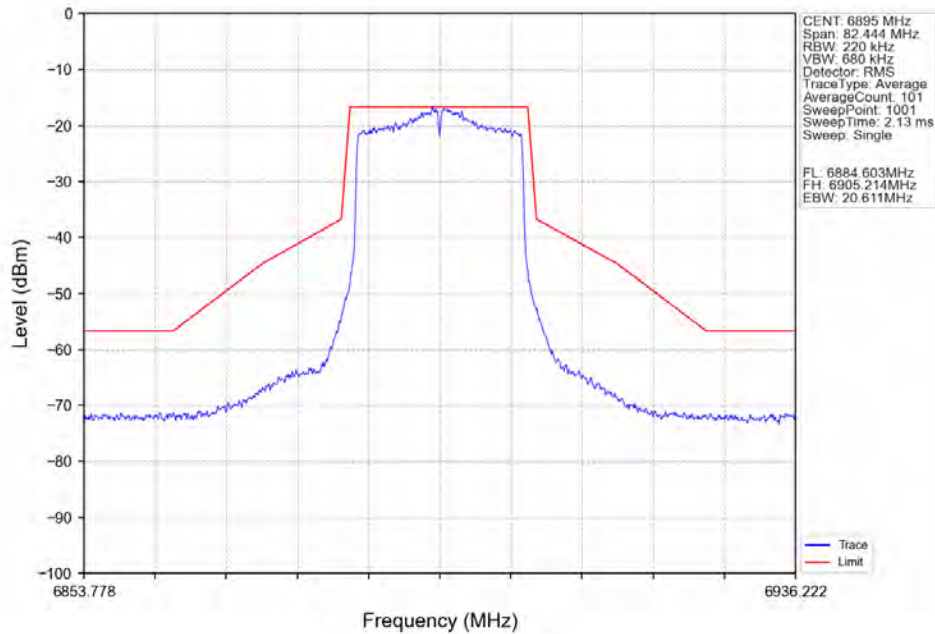
802.11a_HCH_7115MHz_Ant6_NTNV



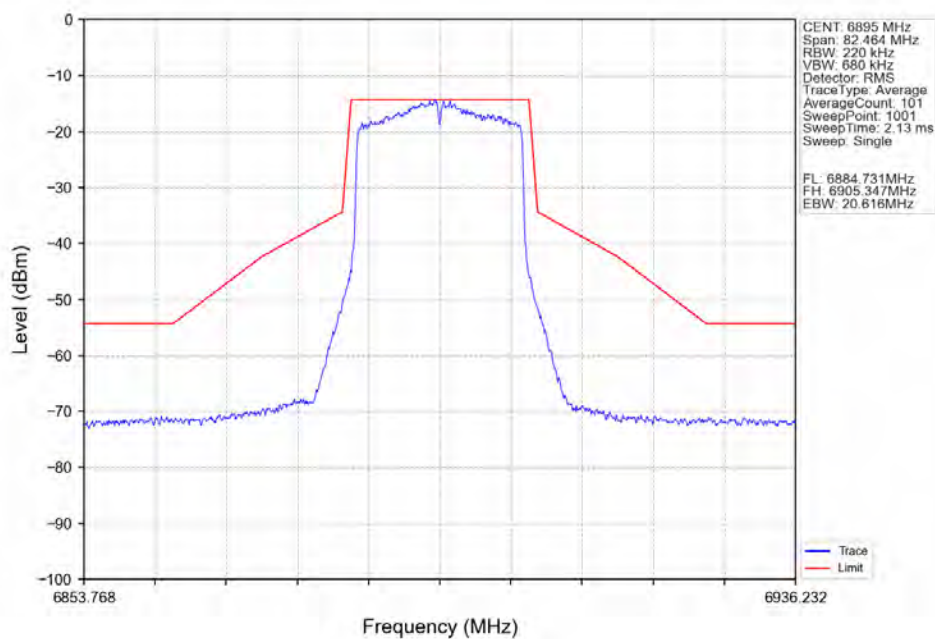
802.11a_HCH_7115MHz_Ant7_NTNV



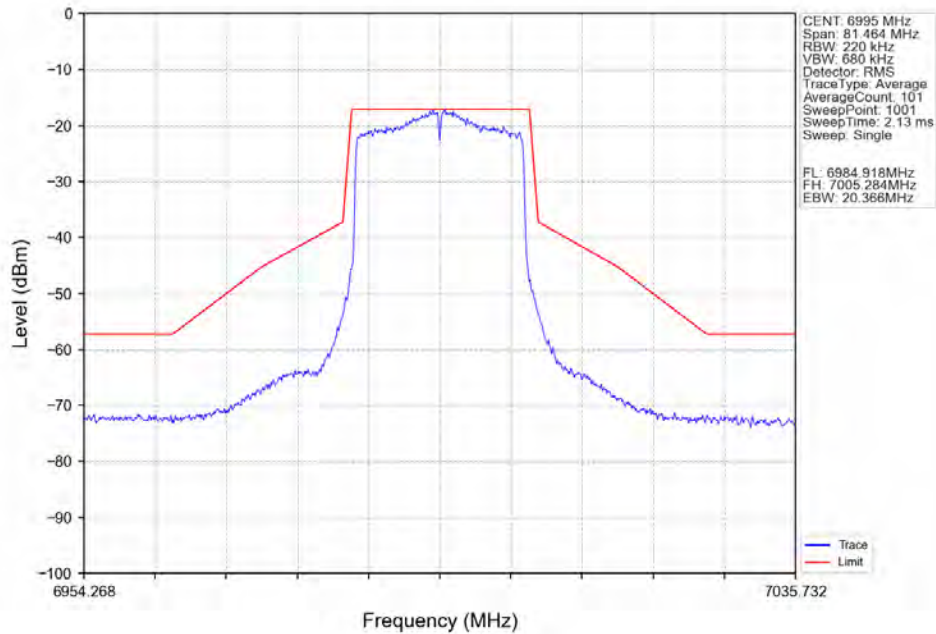
802.11ax(HEW20)_LCH_6895MHz_SU / Ant6_NTNV



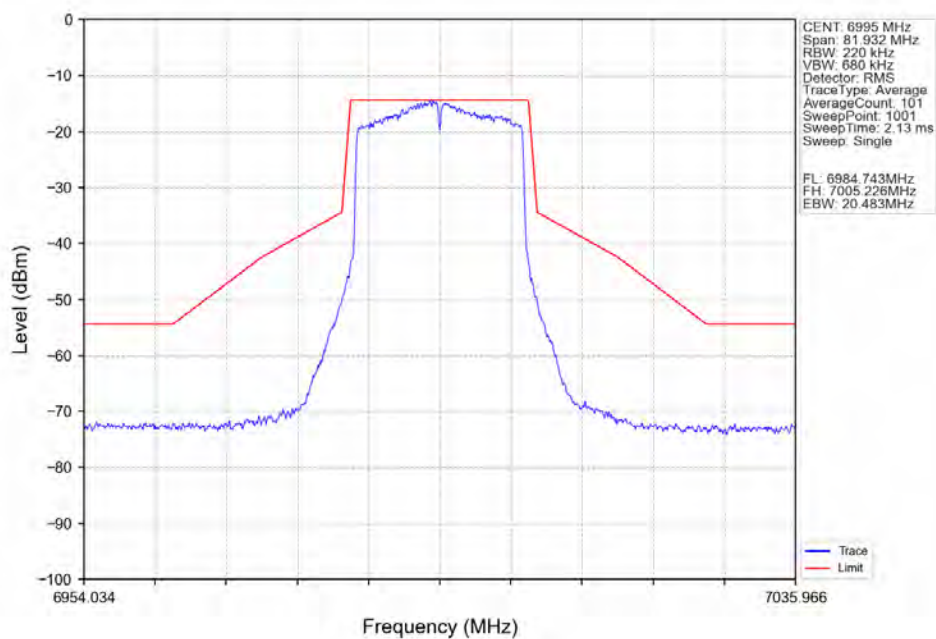
802.11ax(HEW20)_LCH_6895MHz_SU / Ant7_NTNV



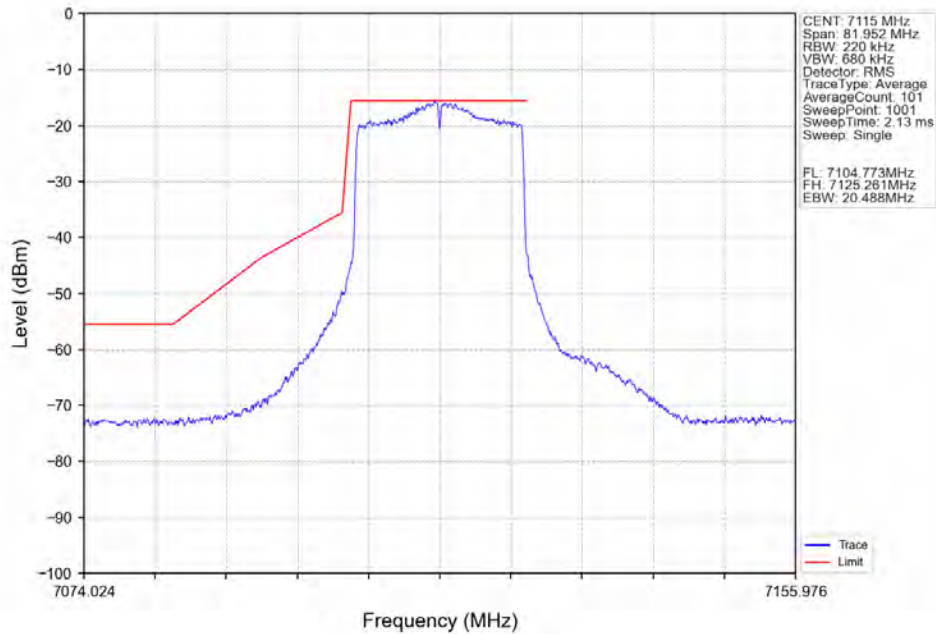
802.11ax(HEW20)_MCH_6995MHz_SU / Ant6 NTN



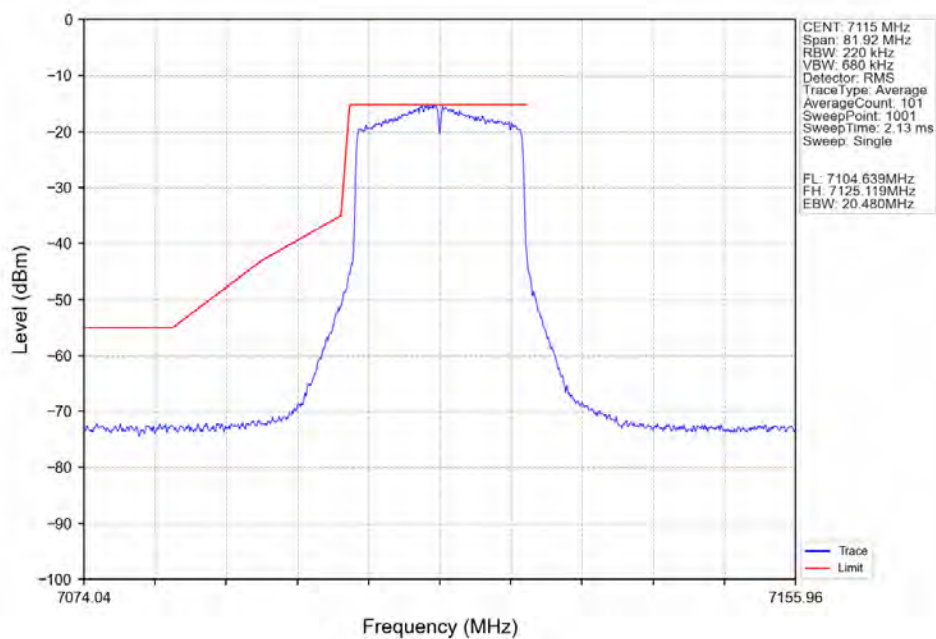
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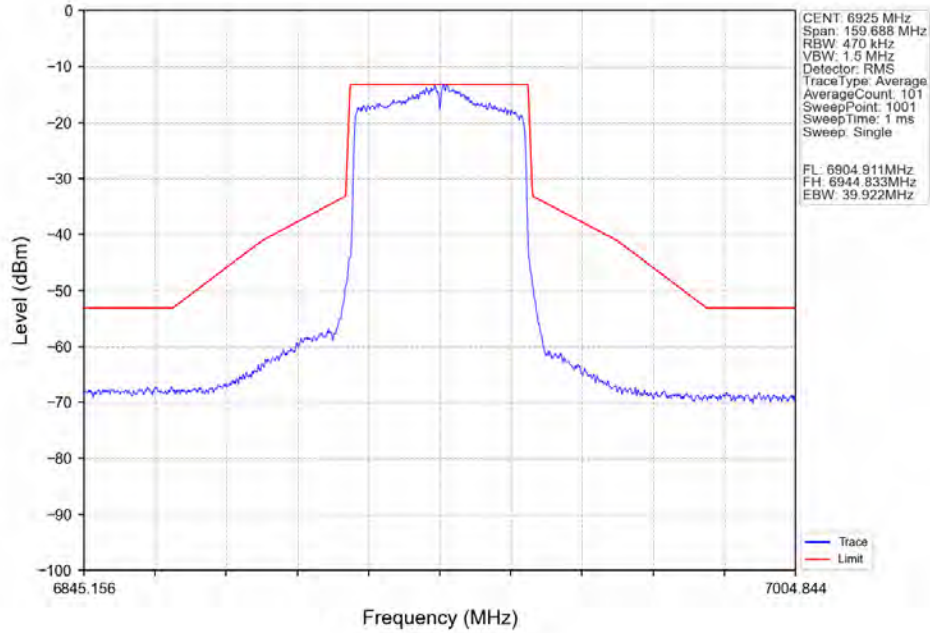
802.11ax(HEW20) HCH 7115MHz SU / Ant6 NTN



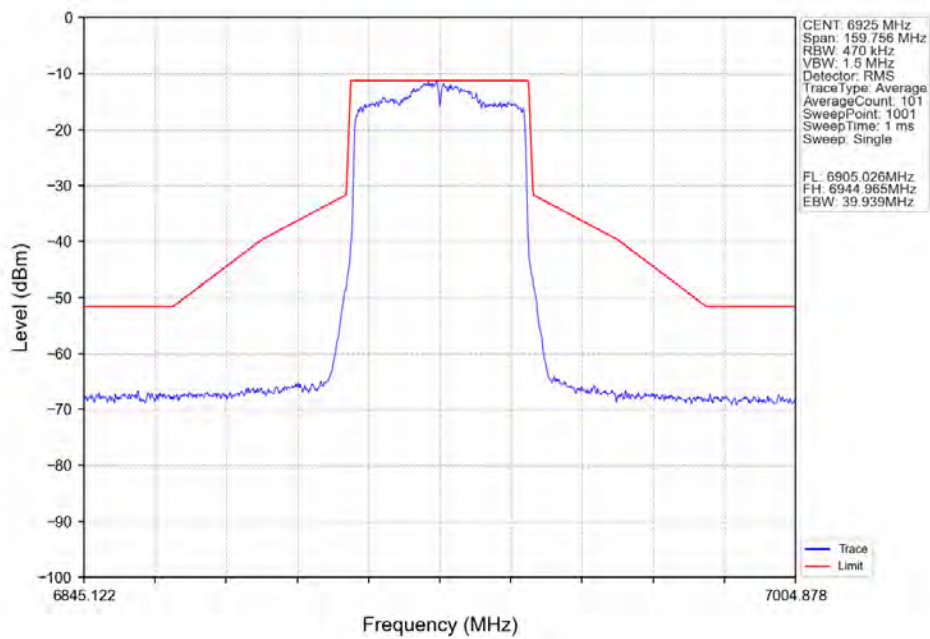
802.11ax(HEW20) HCH 7115MHz SU / Ant7 NTN



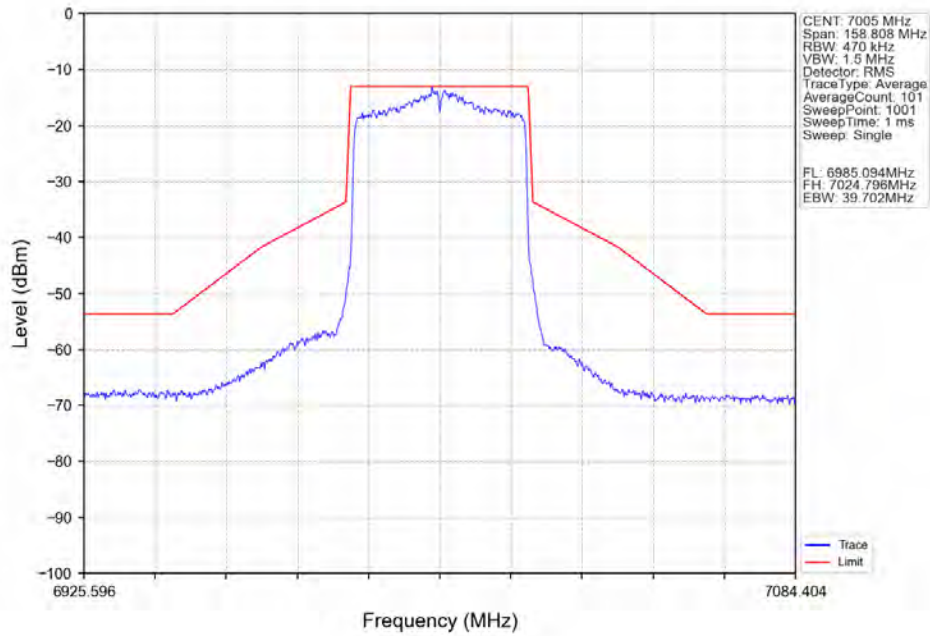
802.11ax(HEW40)_LCH_6925MHz_SU_ / Ant6_NTNV



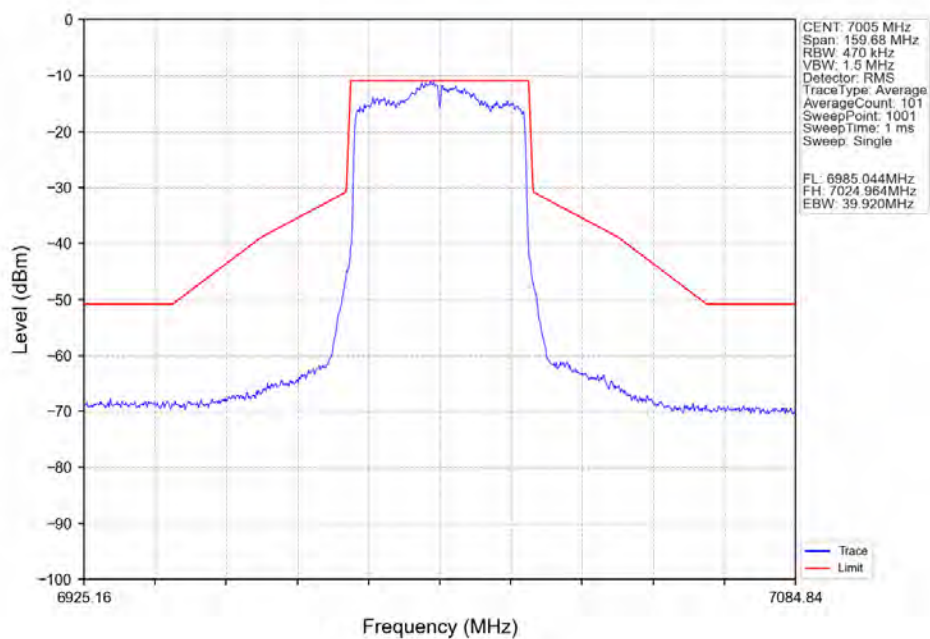
802.11ax(HEW40)_LCH_6925MHz_SU_ / Ant7_NTNV



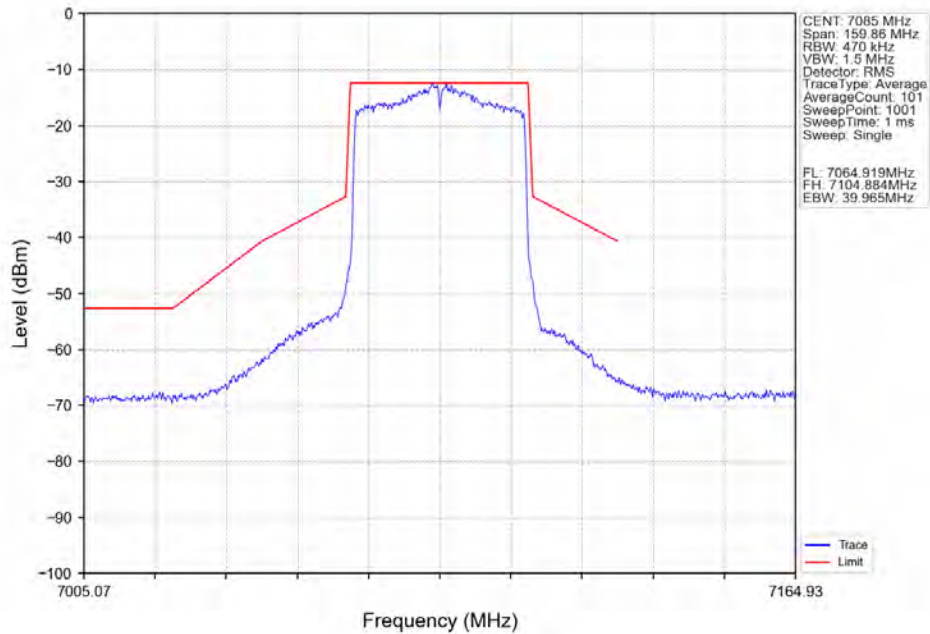
802.11ax(HEW40)_MCH_7005MHz_SU / Ant6 NTN



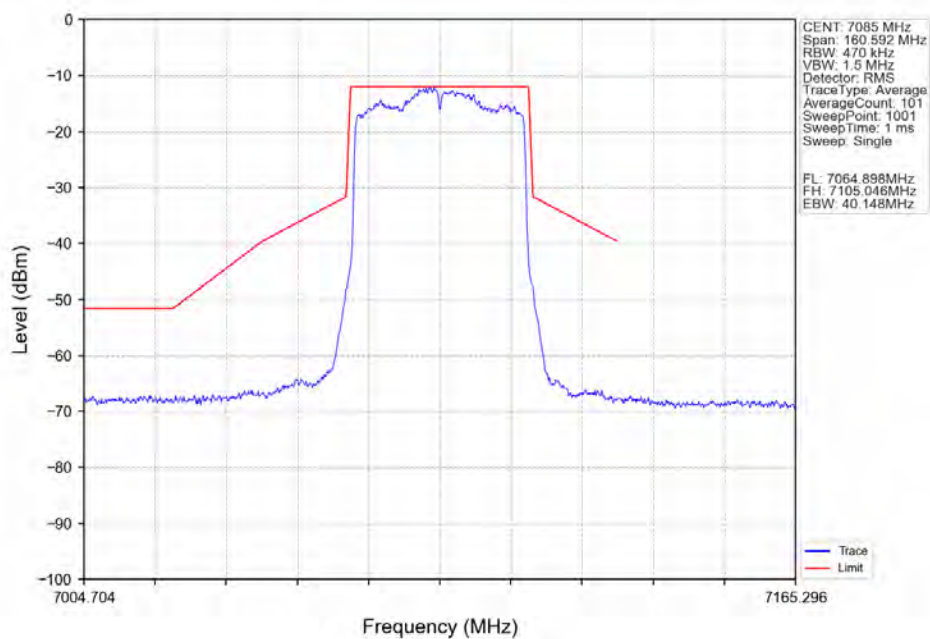
802.11ax(HEW40)_MCH_7005MHz_SU / Ant7 NTN



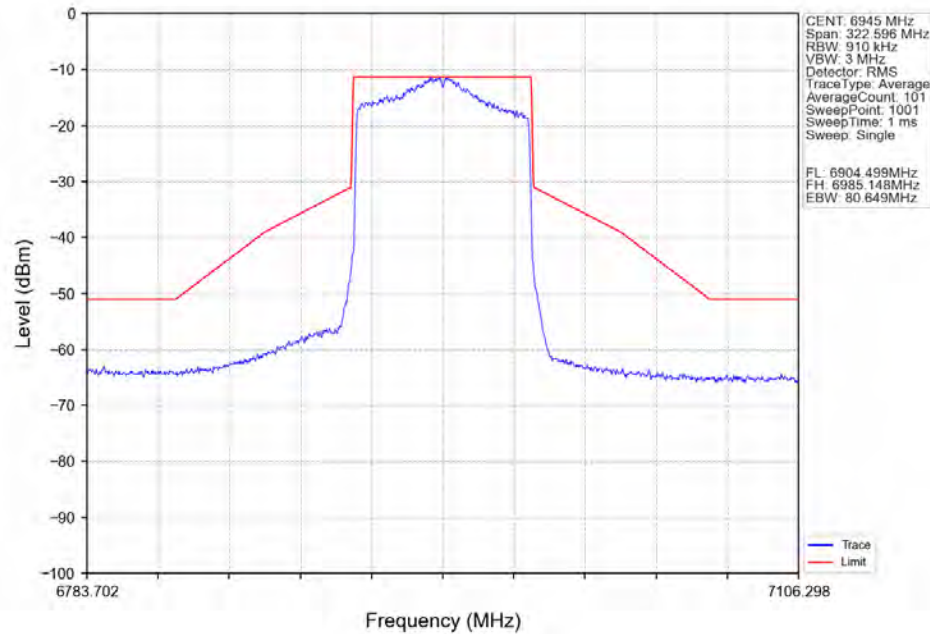
802.11ax(HEW40) HCH 7085MHz SU / Ant6 NTN



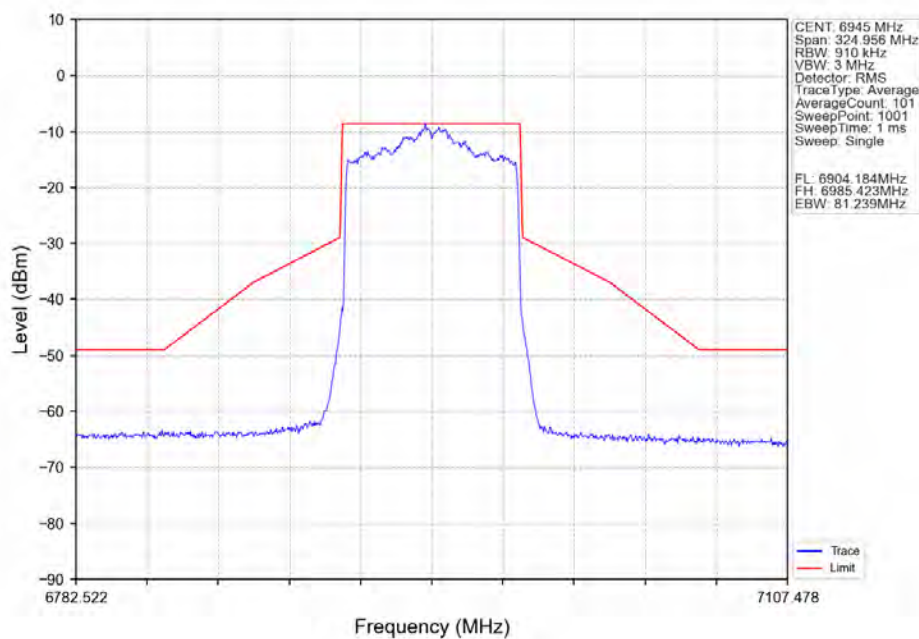
802.11ax(HEW40) HCH 7085MHz SU / Ant7 NTN



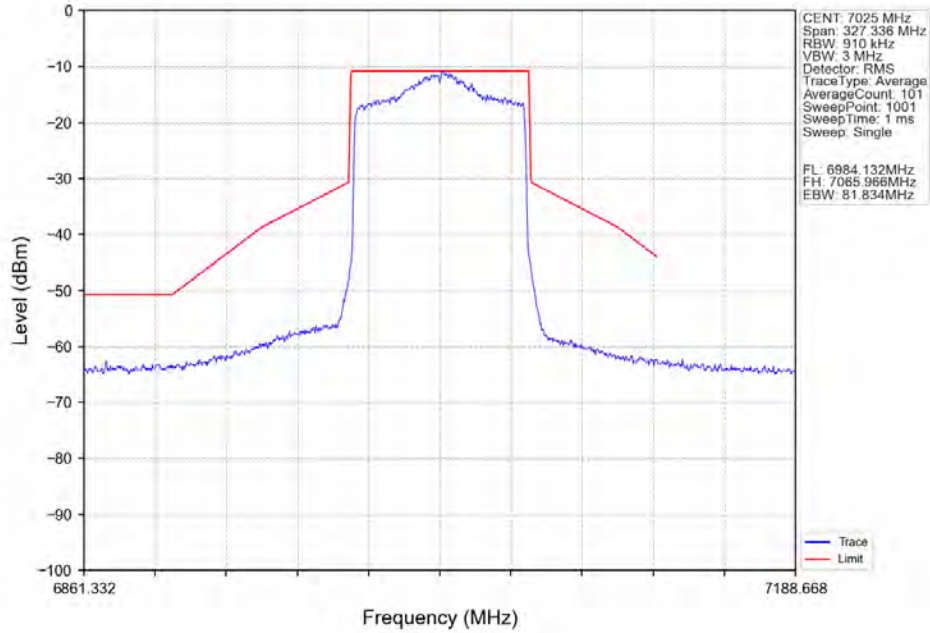
802.11ax(HEW80)_LCH_6945MHz_SU / Ant6_NTNV



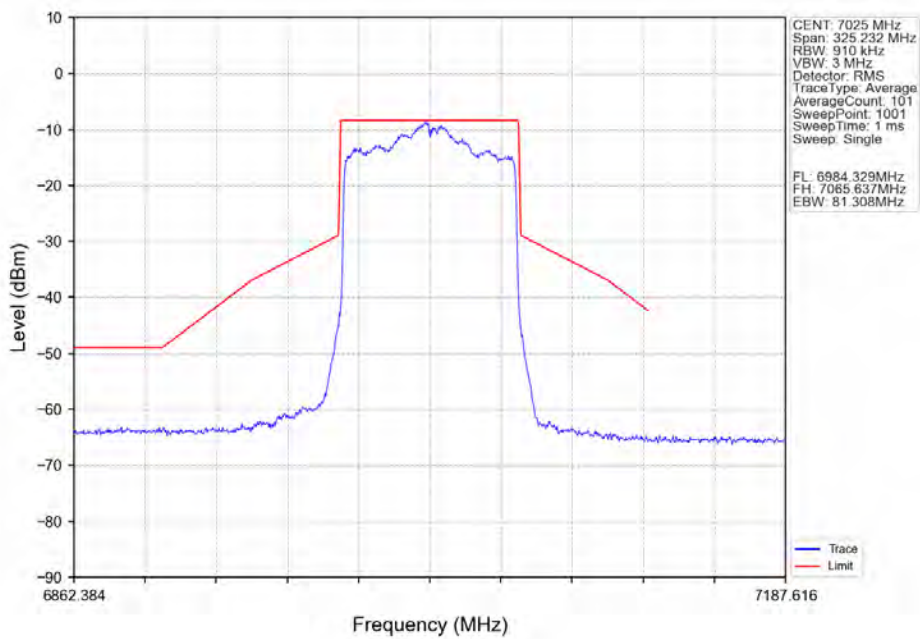
802.11ax(HEW80)_LCH_6945MHz_SU / Ant7_NTNV



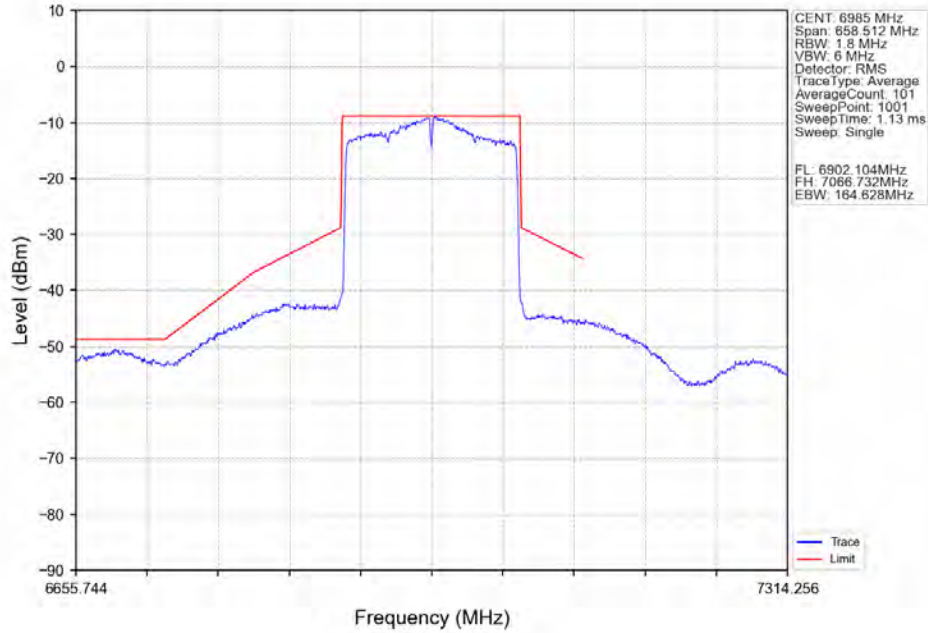
802.11ax(HEW80) HCH 7025MHz SU / Ant6 NTNV



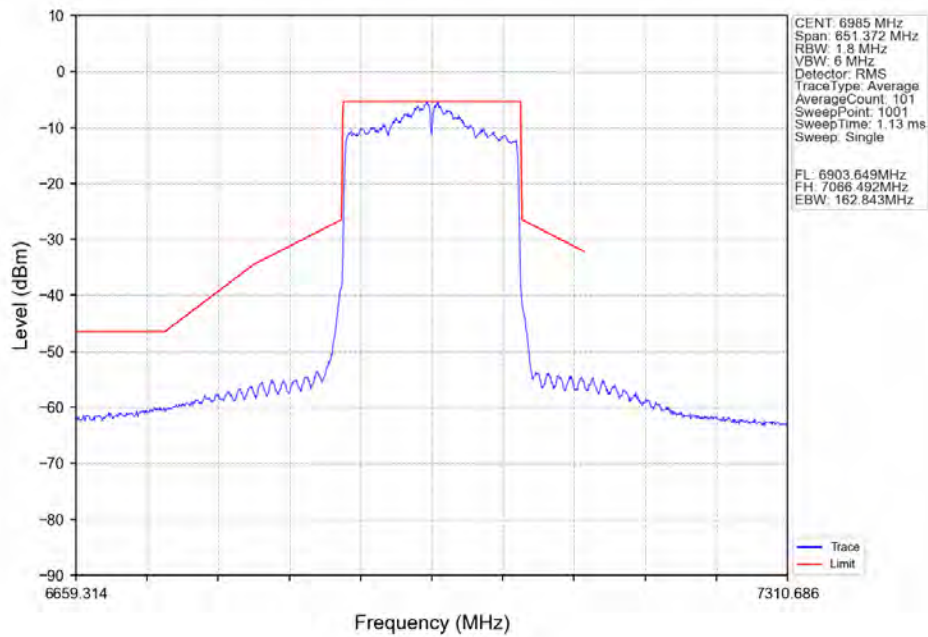
802.11ax(HEW80) HCH 7025MHz SU / Ant7 NTNV



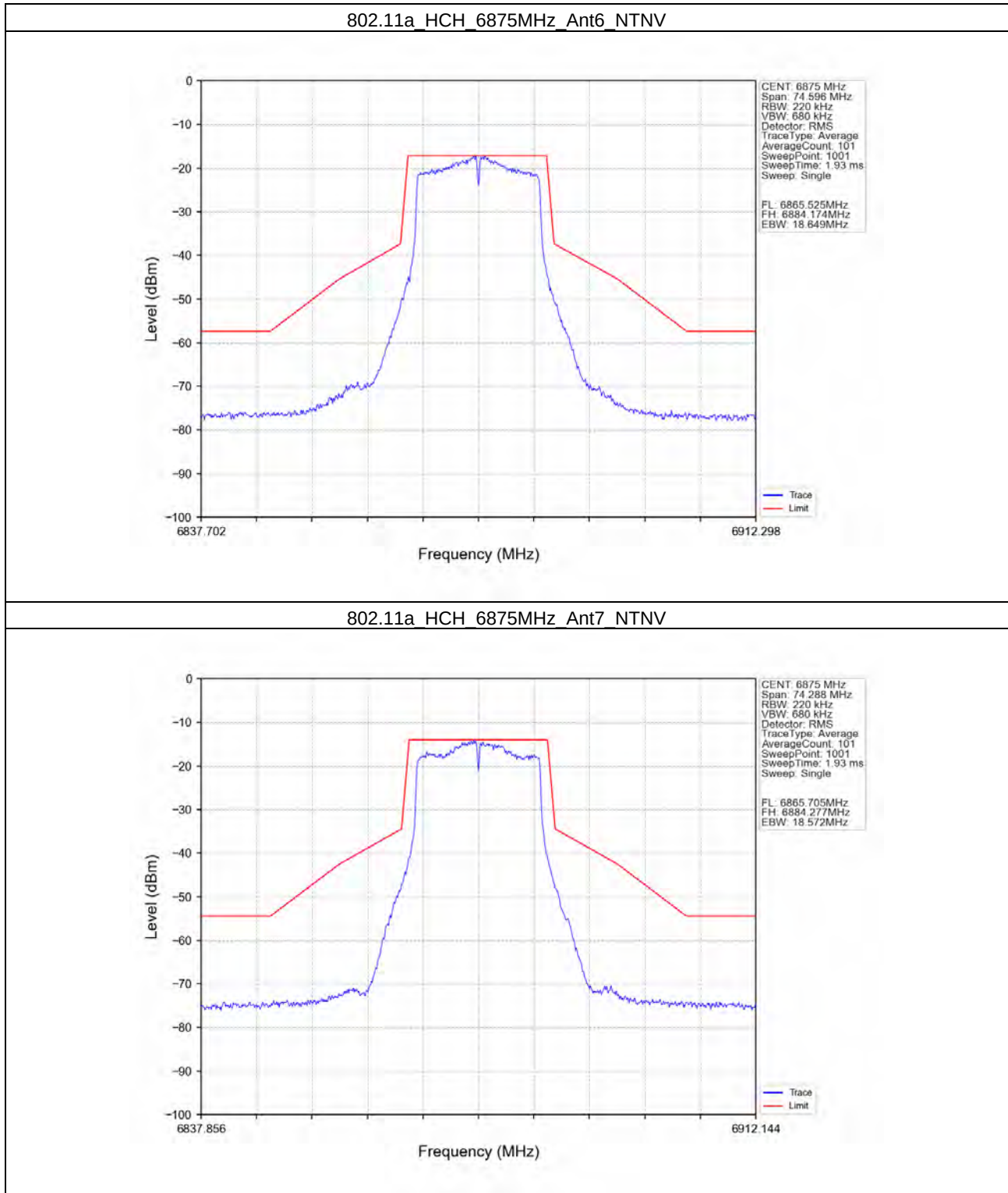
802.11ax(HEW160)_MCH_6985MHz_SU_/_Ant6_NTNV



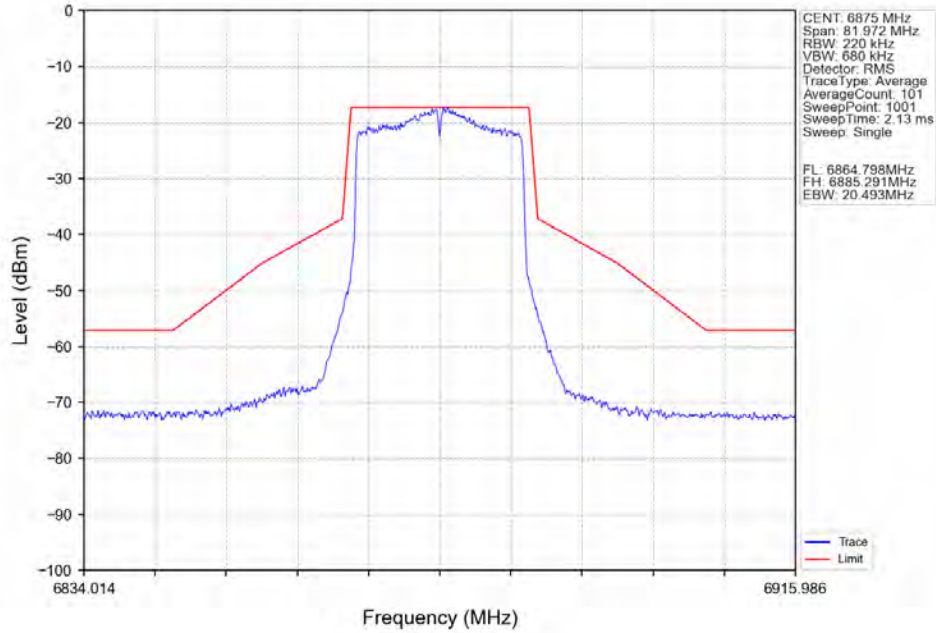
802.11ax(HEW160)_MCH_6985MHz_SU_/_Ant7_NTNV



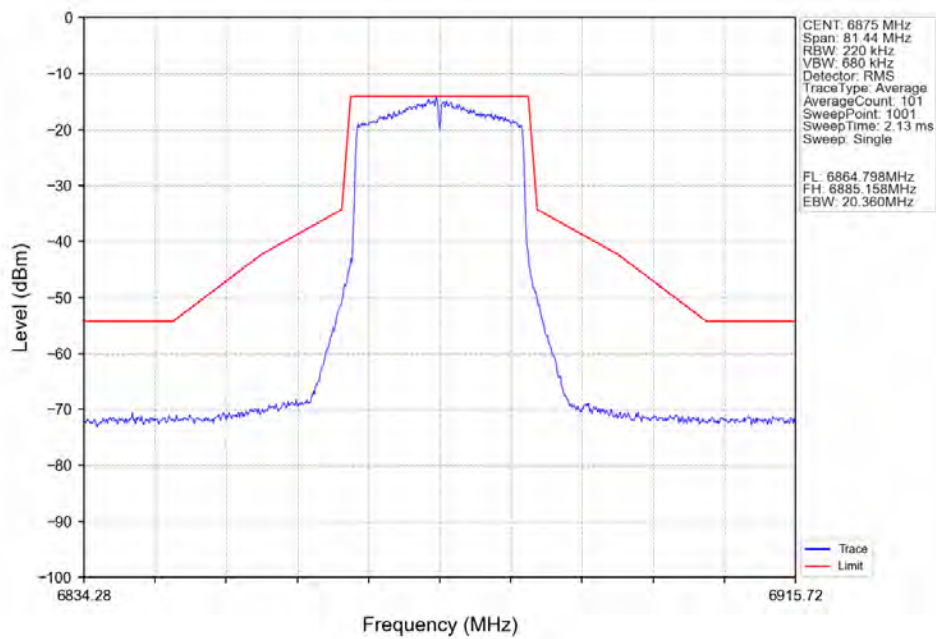
5.2.5 EMask



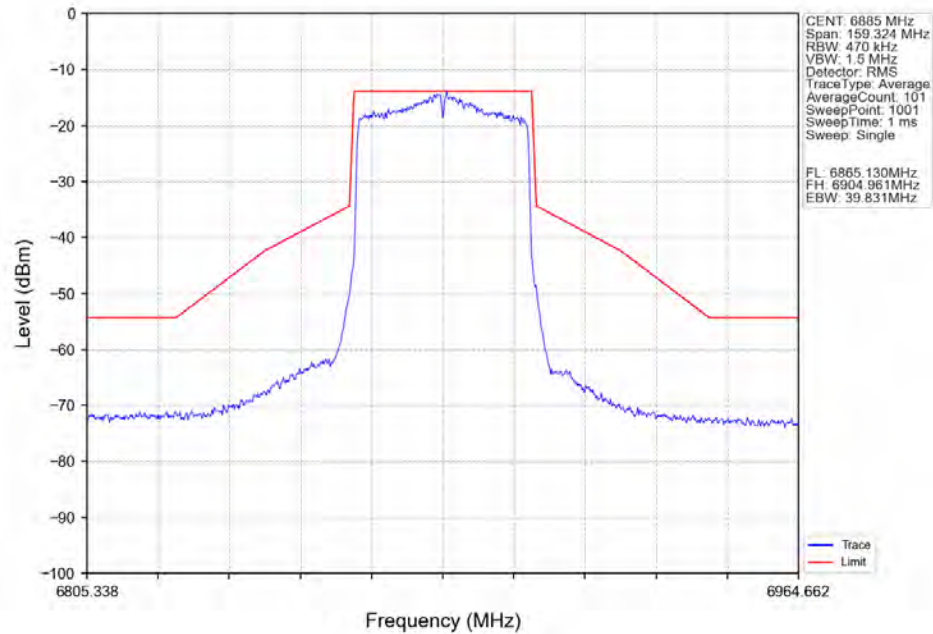
802.11ax(HEW20) HCH_6875MHz_SU / Ant6 NTN



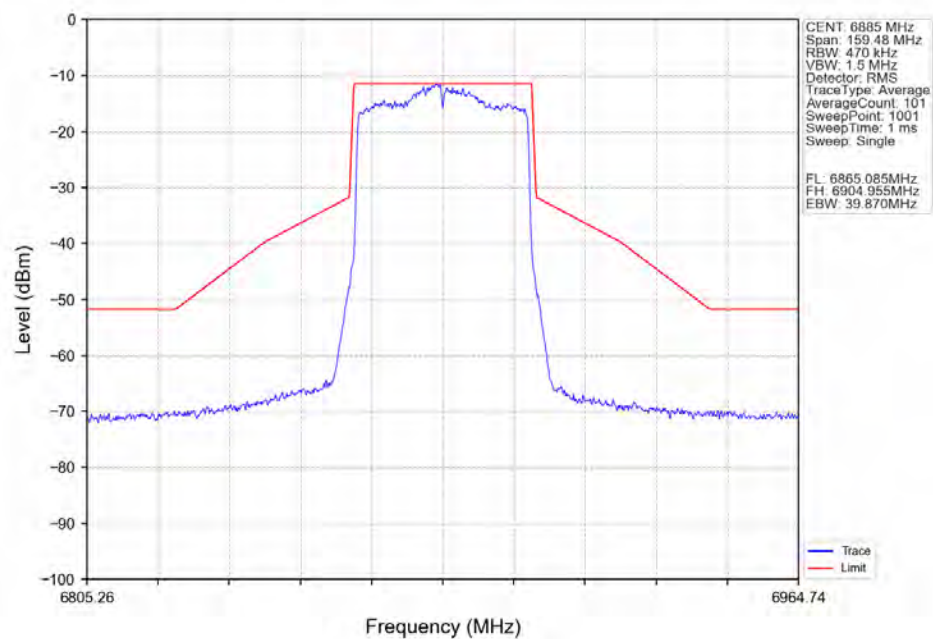
802.11ax(HEW20) HCH_6875MHz_SU / Ant7 NTN



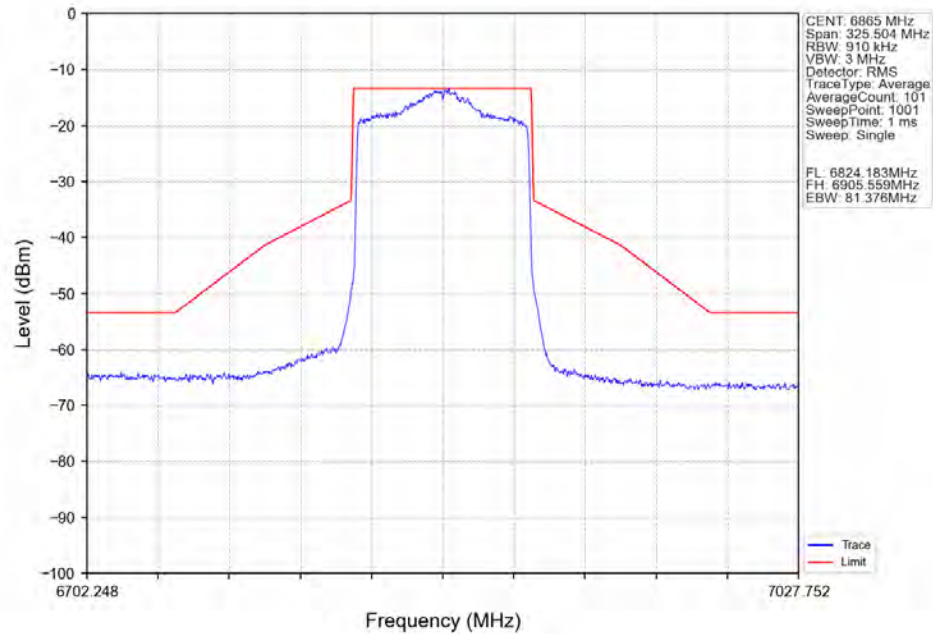
802.11ax(HEW40) HCH_6885MHz_SU / Ant6 NTN



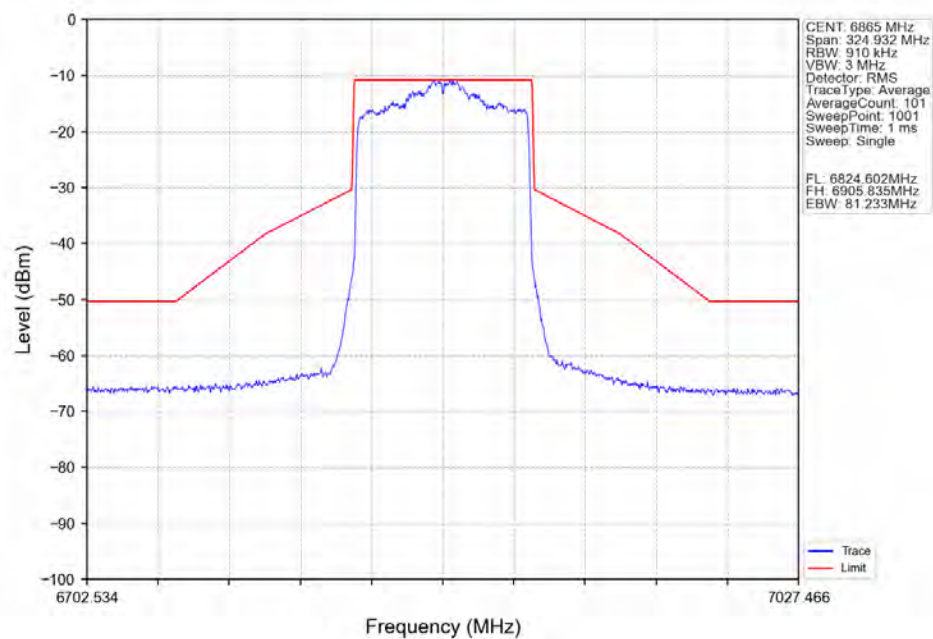
802.11ax(HEW40) HCH_6885MHz_SU / Ant7 NTN



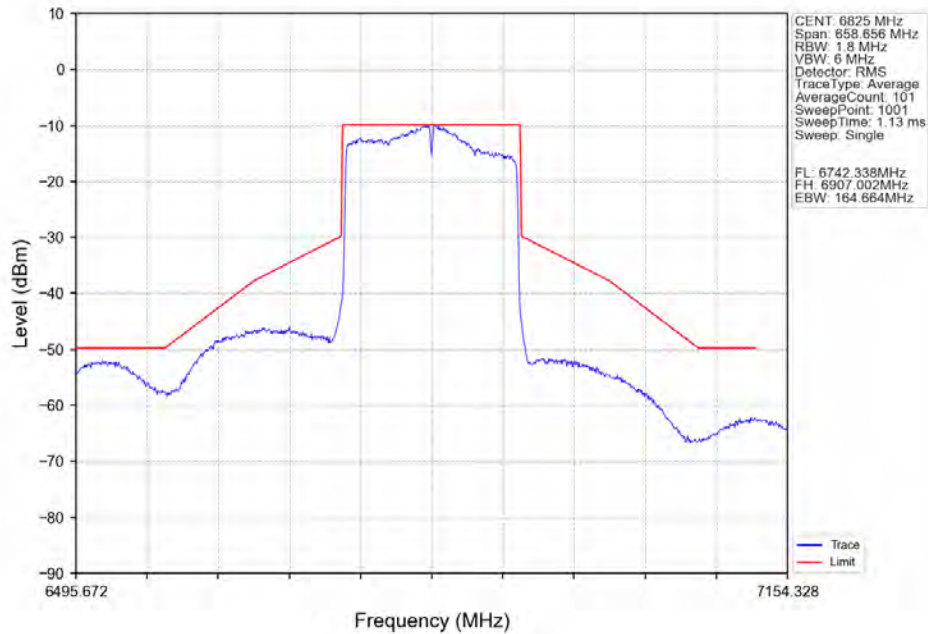
802.11ax(HEW80) HCH_6865MHz_SU / Ant6 NTN



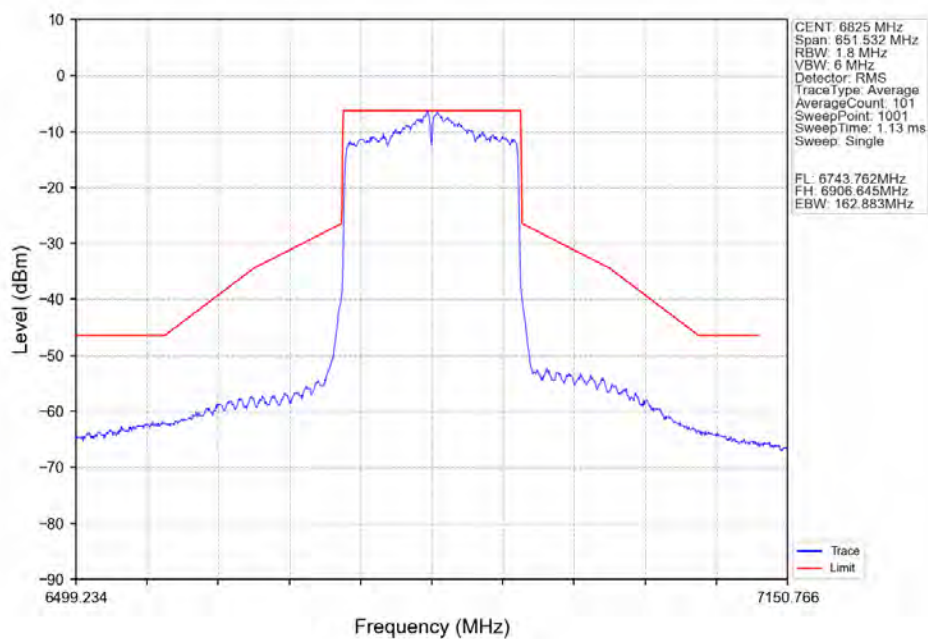
802.11ax(HEW80) HCH_6865MHz_SU / Ant7 NTN



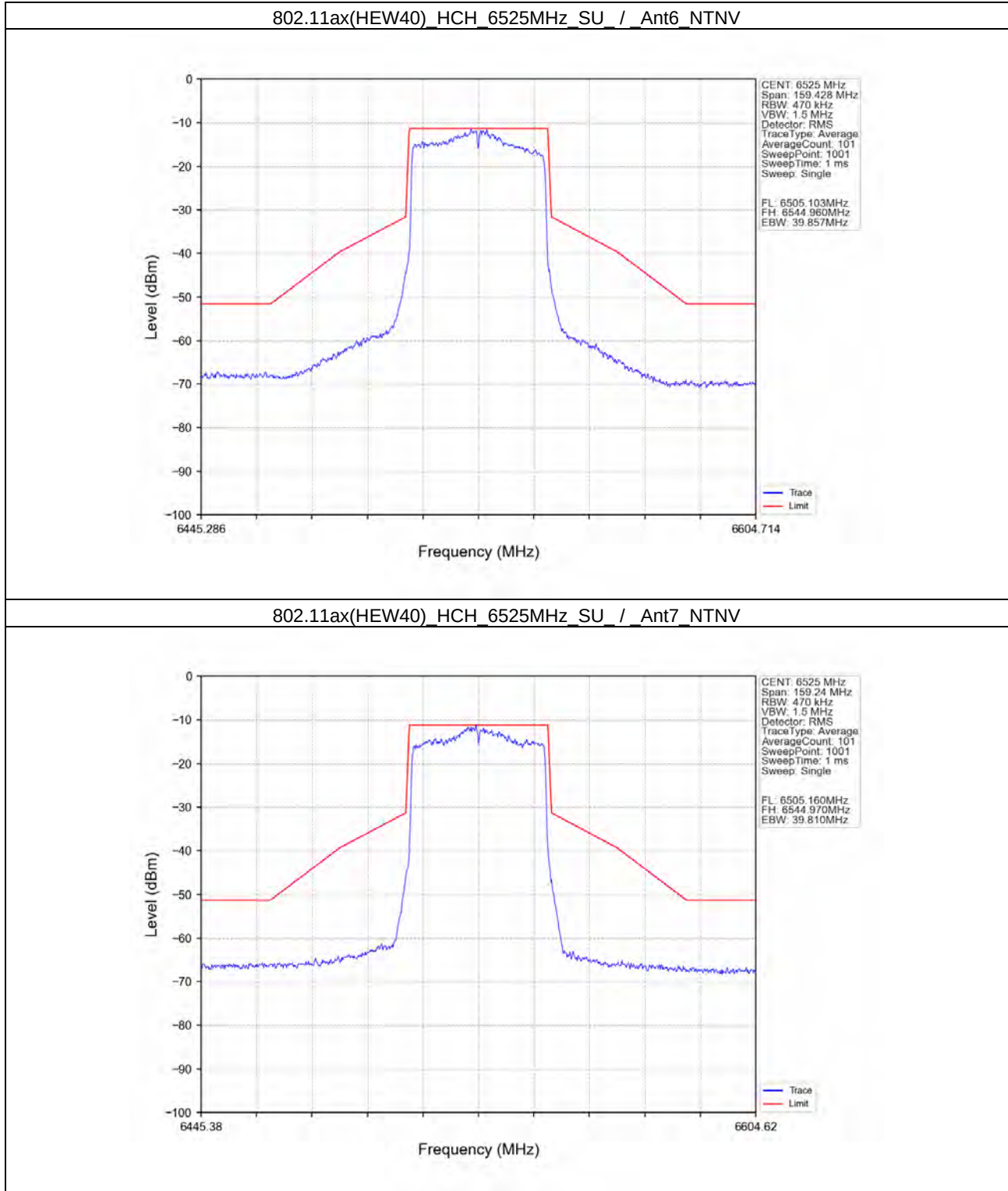
802.11ax(HEW160) HCH 6825MHz SU / Ant6 NTN



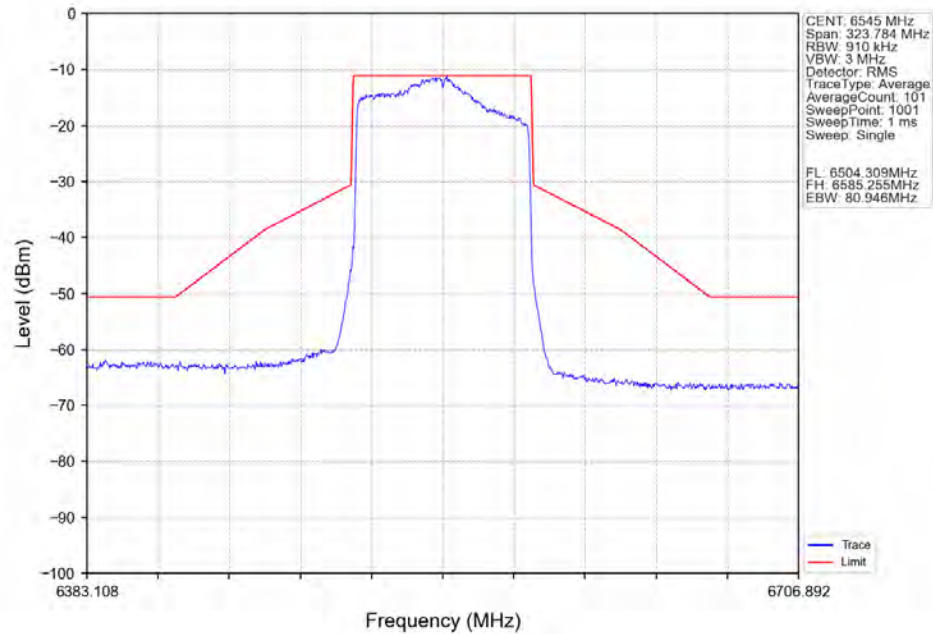
802.11ax(HEW160) HCH 6825MHz SU / Ant7 NTN



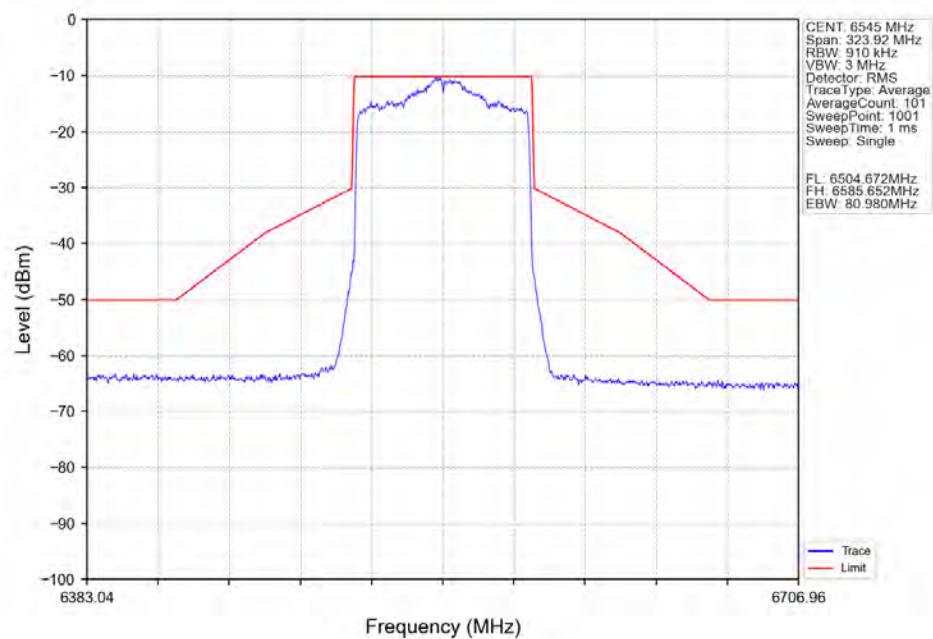
5.2.6 EMask



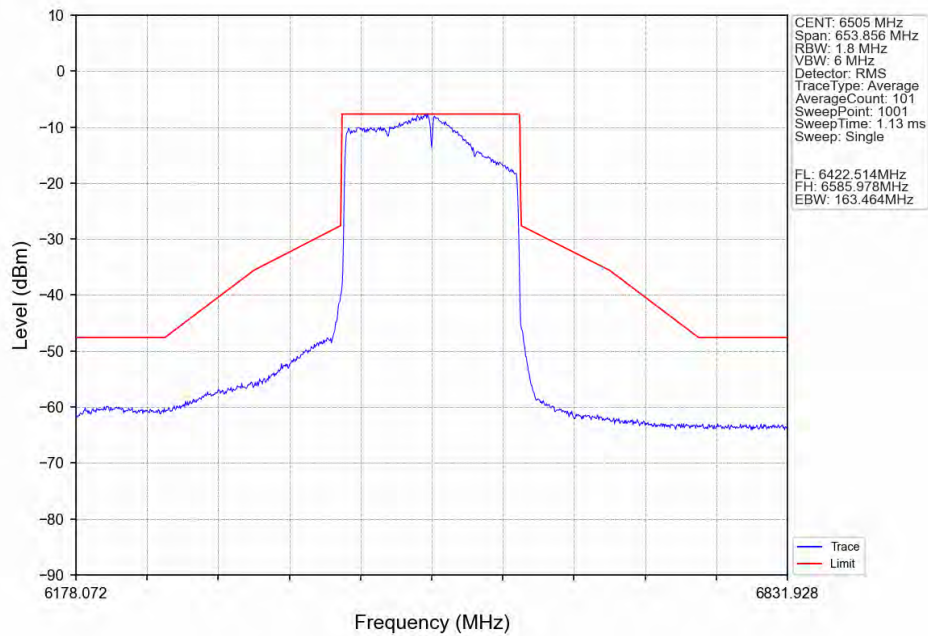
802.11ax(HEW80) HCH_6545MHz_SU / Ant6 NTN



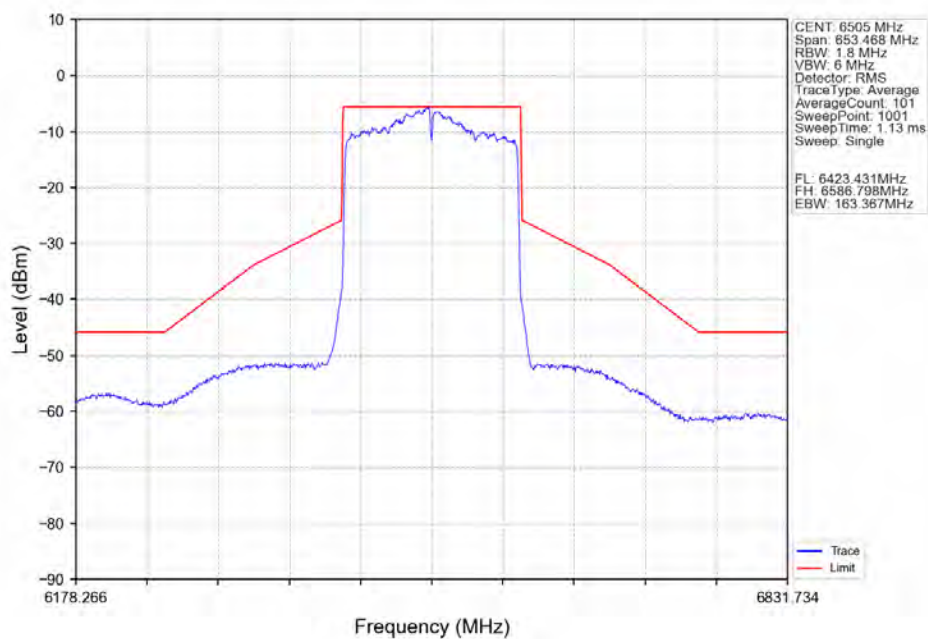
802.11ax(HEW80) HCH_6545MHz_SU / Ant7 NTN



802.11ax(HEW160) HCH 6505MHz SU / Ant6 NTN



802.11ax(HEW160) HCH 6505MHz SU / Ant7 NTN





6. Contention Based Protocol

11 Test Result

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)
UNII Band 5	6175	20	6175	-69.98	100	-62	-69.48	-0.5	7.48
				Result: Stop Transmission					
				-70.81	<90	-62	-70.31	-0.5	8.31
				Result: Minimal Operation					
				-73.26	0	-62	-72.76	-0.5	10.76
	6185	160	6110	Result: Normal Operation					
				-71.8	100	-62	-71.3	-0.5	9.3
				Result: Stop Transmission					
				-72.74	<90	-62	-72.24	-0.5	10.24
				Result: Minimal Operation					
			6185	-75.89	0	-62	-75.39	-0.5	13.39
				Result: Normal Operation					
				-66.21	100	-62	-65.71	-0.5	3.71
				Result: Stop Transmission					
				-67.2	<90	-62	-66.7	-0.5	4.7
				Result: Minimal Operation					
				-70.23	0	-62	-69.73	-0.5	7.73
				Result: Normal Operation					
			6260	-69.18	100	-62	-68.68	-0.5	6.68
				Result: Stop Transmission					
				-70.14	<90	-62	-69.64	-0.5	7.64
				Result: Minimal Operation					
				-73.56	0	-62	-73.06	-0.5	11.06
				Result: Normal Operation					

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)



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Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)
UNII Band 6	6475	20	6475	-72.73	100	-62	-73.23	0.5	11.23
						Result: Stop Transmission			
				-73.69	<90	-62	-74.19	0.5	12.19
						Result: Minimal Operation			
				-76.85	0	-62	-77.35	0.5	15.35
	6505	160	6430			Result: Normal Operation			
				-69.98	100	-62	-70.48	0.5	8.48
						Result: Stop Transmission			
				-70.97	<90	-62	-71.47	0.5	9.47
						Result: Minimal Operation			
			6505	-73.45	0	-62	-73.95	0.5	11.95
						Result: Normal Operation			
				-66.14	100	-62	-66.64	0.5	4.64
						Result: Stop Transmission			
				-67.15	<90	-62	-67.65	0.5	5.65
						Result: Minimal Operation			
			6580	-70.1	0	-62	-70.6	0.5	8.6
						Result: Normal Operation			
				-69.48	100	-62	-69.98	0.5	7.98
						Result: Stop Transmission			
				-70.47	<90	-62	-70.97	0.5	8.97
						Result: Minimal Operation			
				-73.75	0	-62	-74.25	0.5	12.25
						Result: Normal Operation			

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)



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Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)
UNII Band 7	6695	20	6695	-69.51	100	-62	-70.01	0.5	8.01
						Result: Stop Transmission			
				-70.79	<90	-62	-71.29	0.5	9.29
						Result: Minimal Operation			
				-73.41	0	-62	-73.91	0.5	11.91
	6665	160	6590			Result: Normal Operation			
				-71.42	100	-62	-71.92	0.5	9.92
						Result: Stop Transmission			
				-72.43	<90	-62	-72.93	0.5	10.93
						Result: Minimal Operation			
			6665	-75.69	0	-62	-76.19	0.5	14.19
						Result: Normal Operation			
				-67.9	100	-62	-68.4	0.5	6.4
						Result: Stop Transmission			
				-68.92	<90	-62	-69.42	0.5	7.42
						Result: Minimal Operation			
			6740	-71.52	0	-62	-72.02	0.5	10.02
						Result: Normal Operation			
				-72.12	100	-62	-72.62	0.5	10.62
						Result: Stop Transmission			
				-73.1	<90	-62	-73.6	0.5	11.6
						Result: Minimal Operation			
				-76.66	0	-62	-77.16	0.5	15.16
						Result: Normal Operation			

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

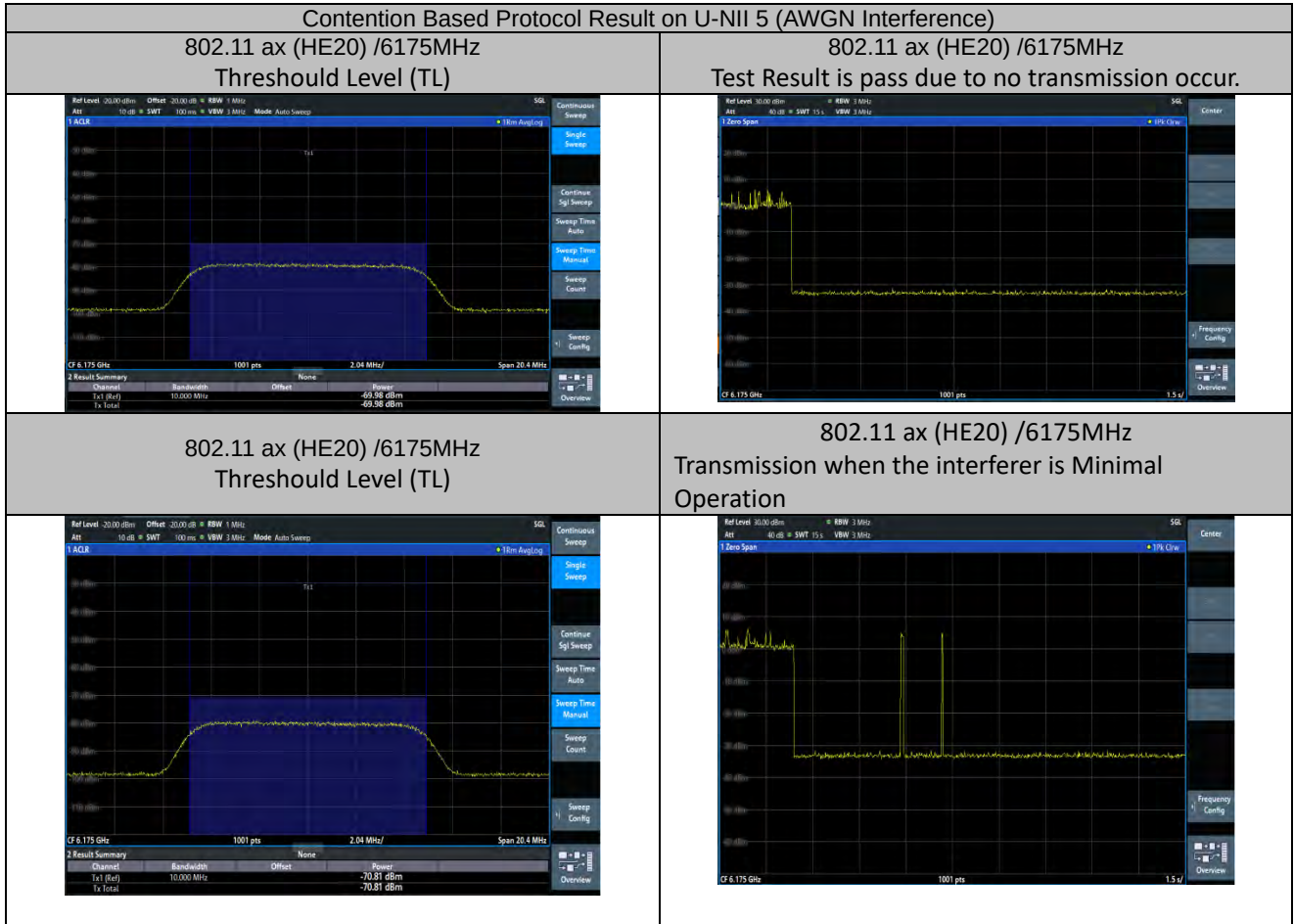
Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)

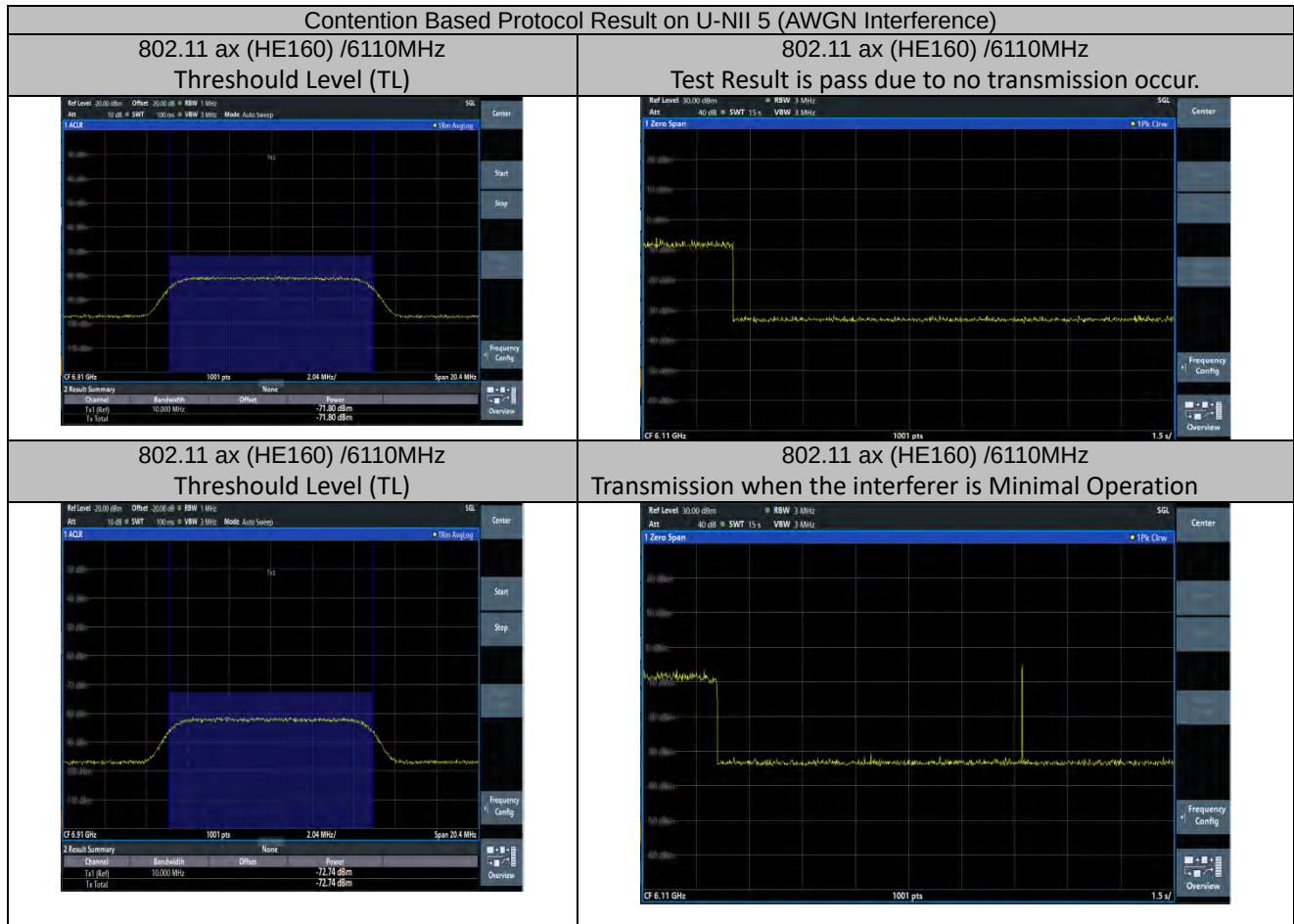
Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)
UNII Band 8	6995	20	6995	-69.95	100	-62	-69.95	0	7.95
				Result: Stop Transmission					
				-70.94	<90	-62	-70.94	0	8.94
				Result: Minimal Operation					
				-73.89	0	-62	-73.89	0	11.89
	6985	160	6910	Result: Normal Operation					
				-72.72	100	-62	-72.72	0	10.72
				Result: Stop Transmission					
				-73.68	<90	-62	-73.68	0	11.68
				Result: Minimal Operation					
			6985	-76.88	0	-62	-76.88	0	14.88
				Result: Normal Operation					
				-68.86	100	-62	-68.86	0	6.86
				Result: Stop Transmission					
				-69.88	<90	-62	-69.88	0	7.88
				Result: Minimal Operation					
			7060	-72.77	0	-62	-72.77	0	10.77
				Result: Normal Operation					
				-71.95	100	-62	-71.95	0	9.95
				Result: Stop Transmission					
				-72.94	<90	-62	-72.94	0	10.94
				Result: Minimal Operation					
				-75.96	0	-62	-75.96	0	13.96
				Result: Normal Operation					

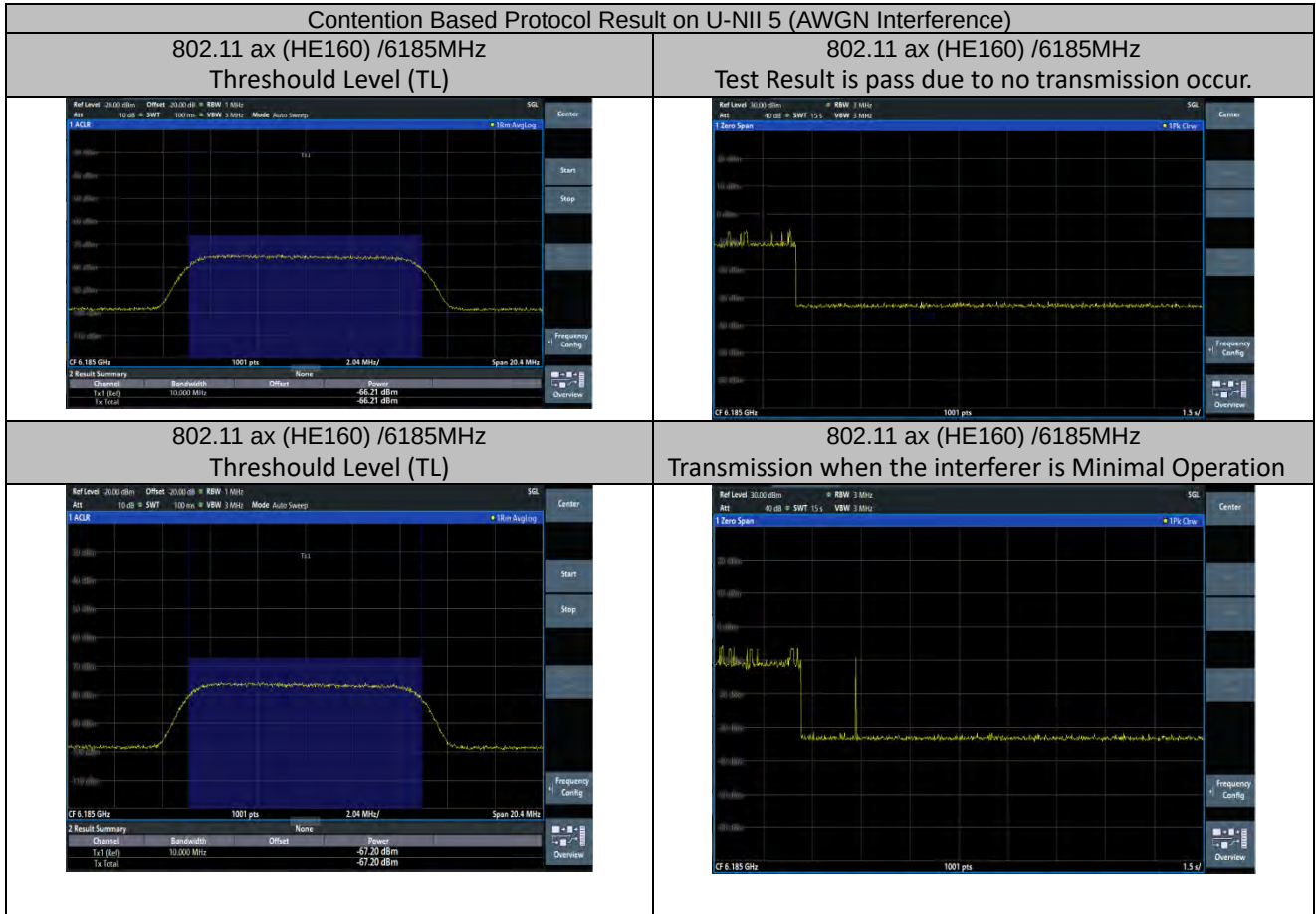
Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)

12 Test Graphs

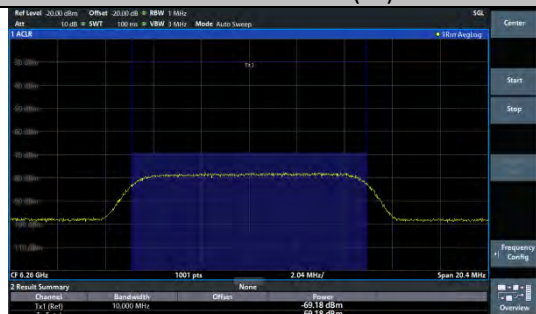




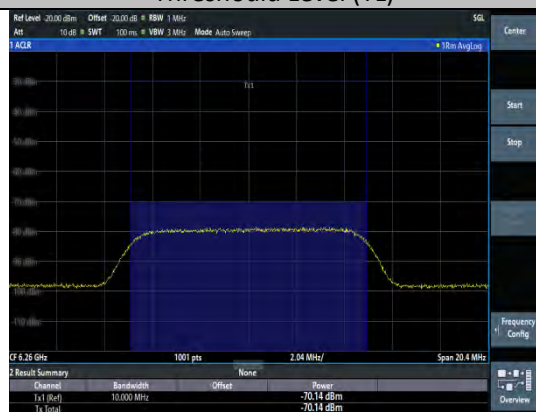


Contention Based Protocol Result on U-NII 5 (AWGN Interference)

802.11 ax (HE160) /6260MHz
Threshold Level (TL)

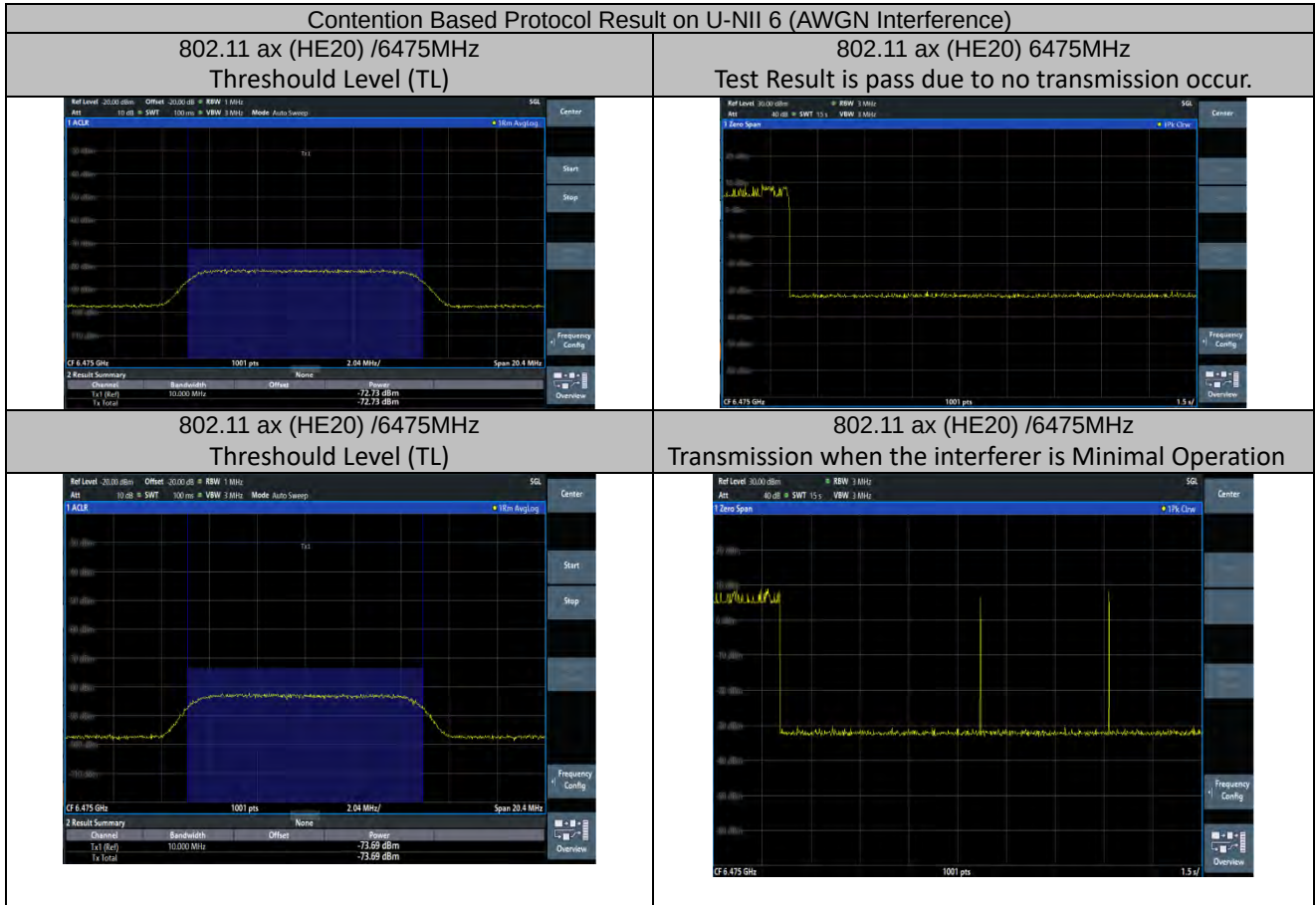


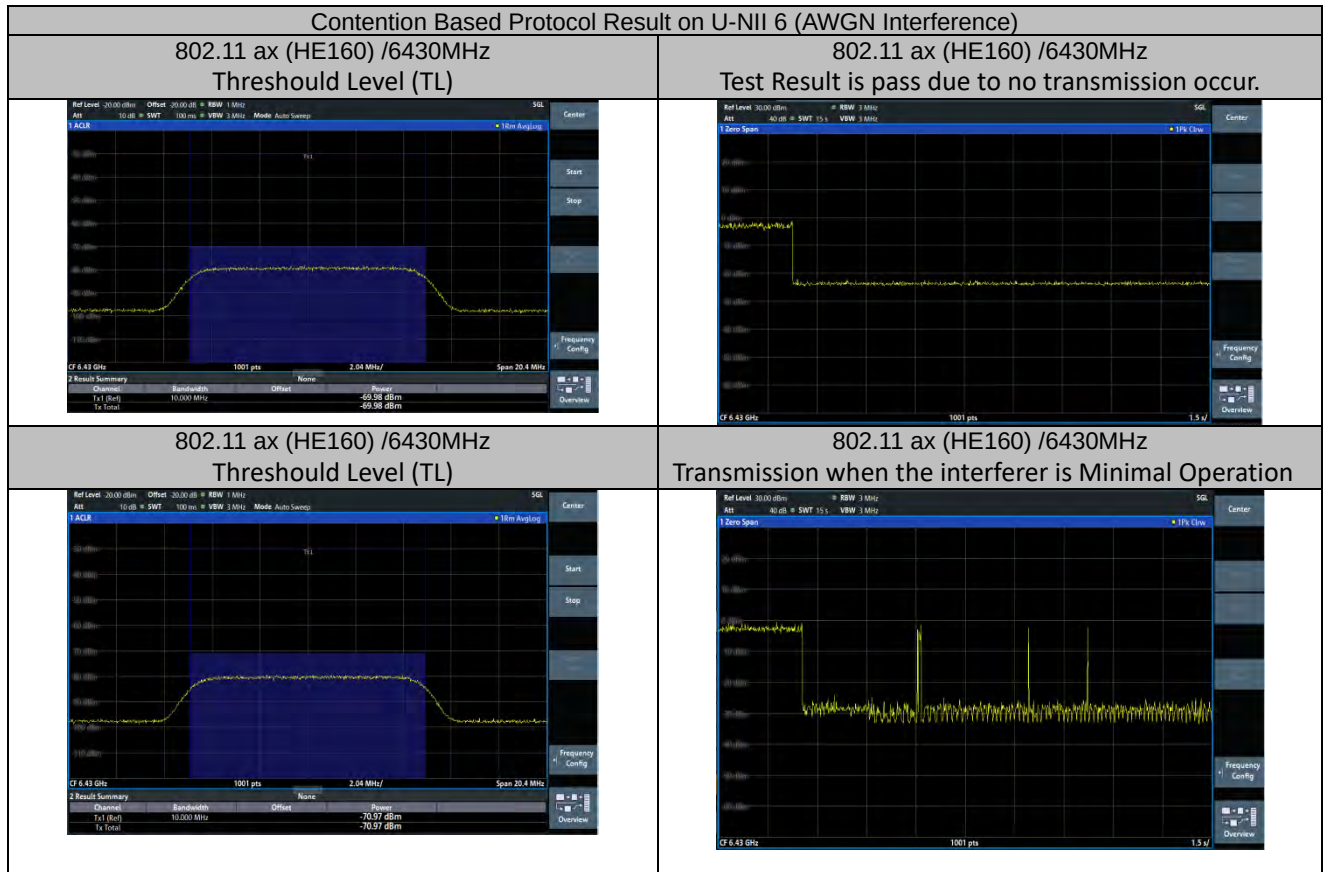
802.11 ax (HE160) /6260MHz
Test Result is pass due to no transmission occur.

802.11 ax (HE160) /6260MHz
Threshold Level (TL)

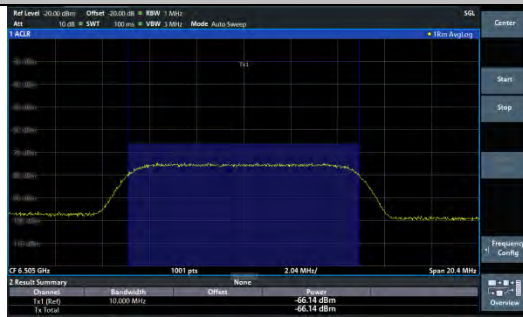
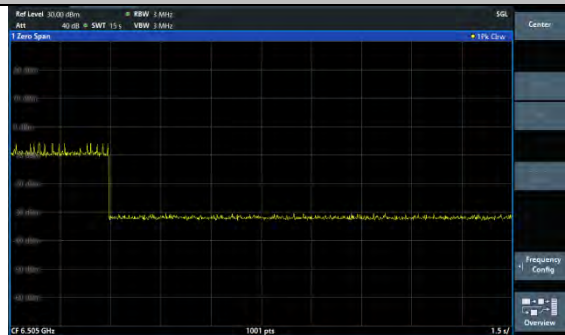
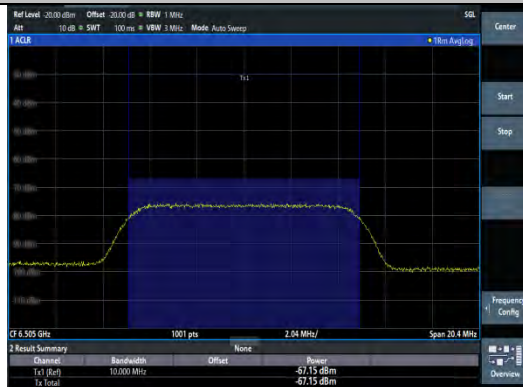
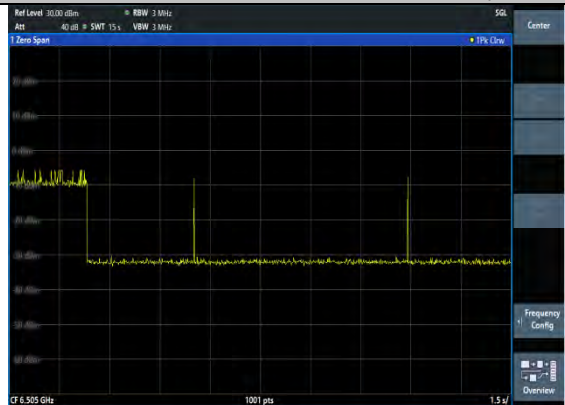
802.11 ax (HE160) /6260MHz
Transmission when the interferer is Minimal Operation

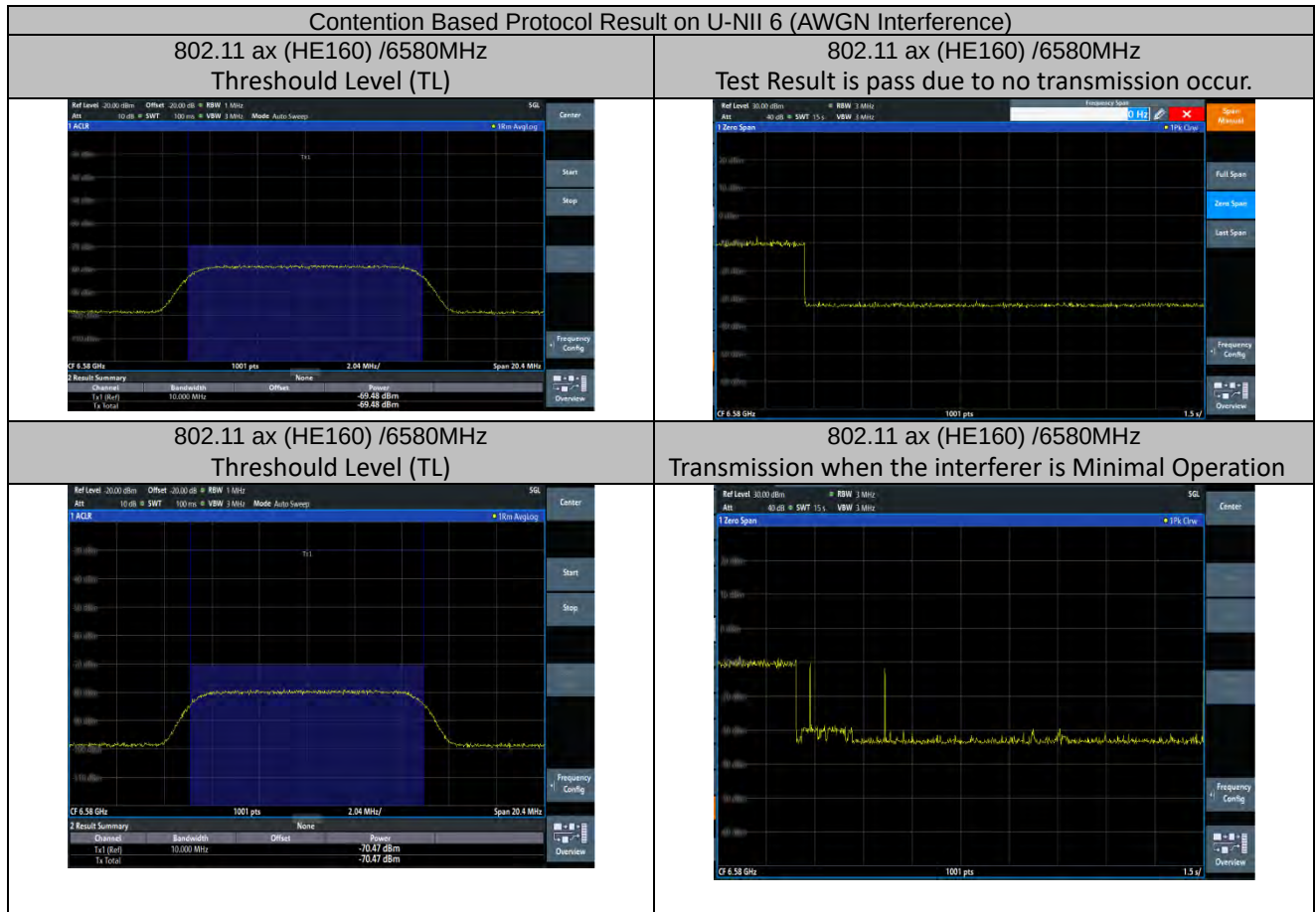


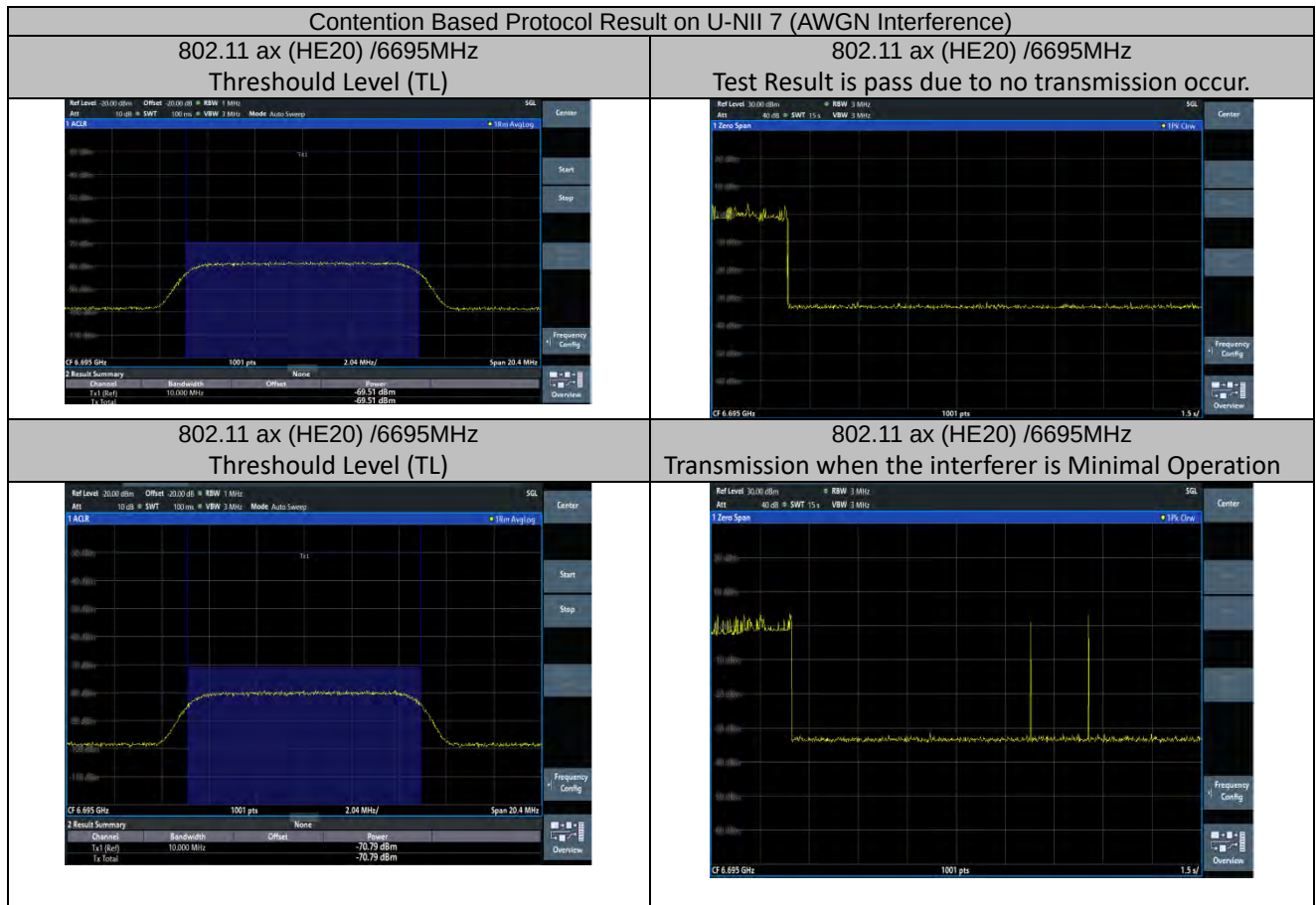


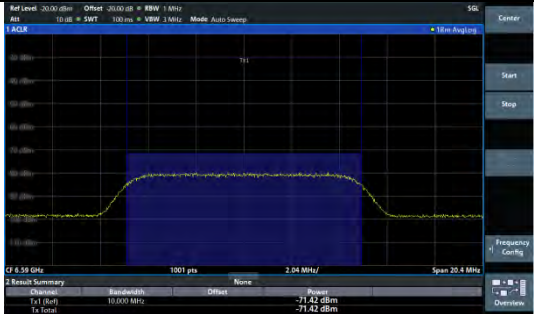
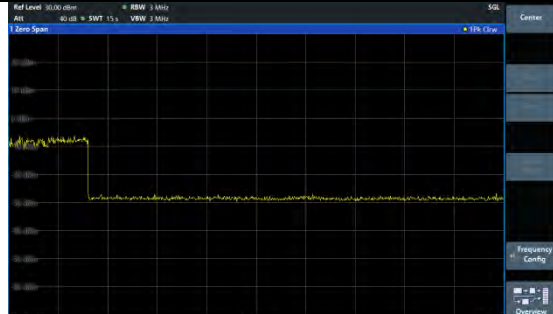
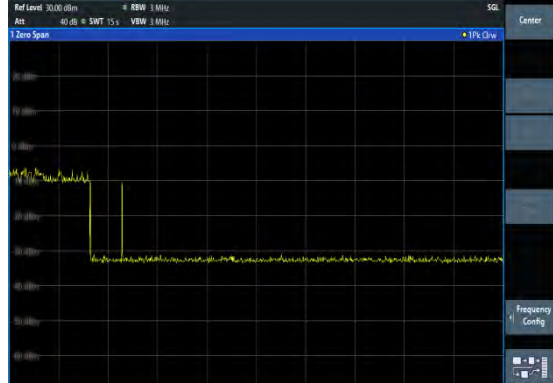


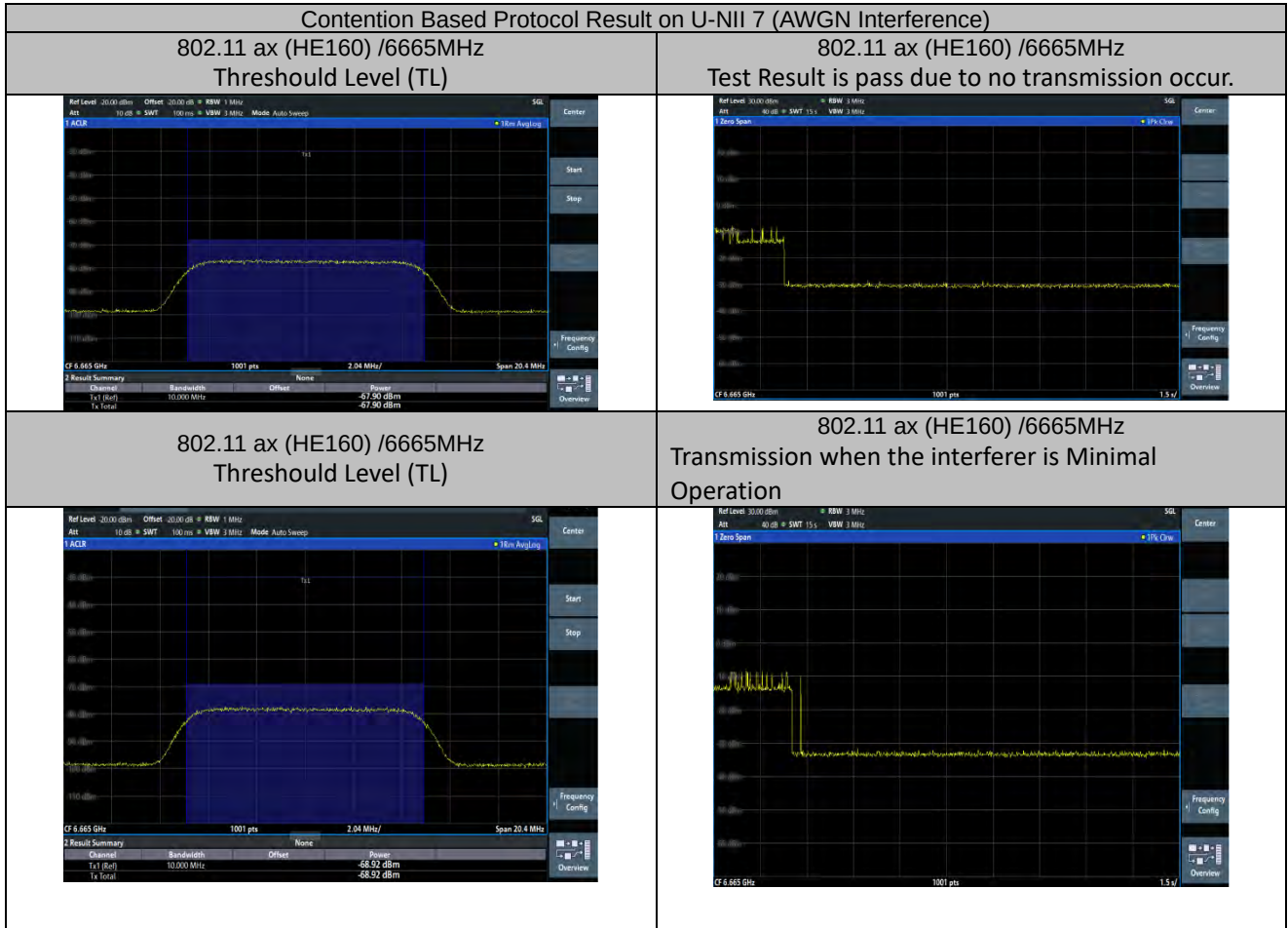
Contention Based Protocol Result on U-NII 6 (AWGN Interference)

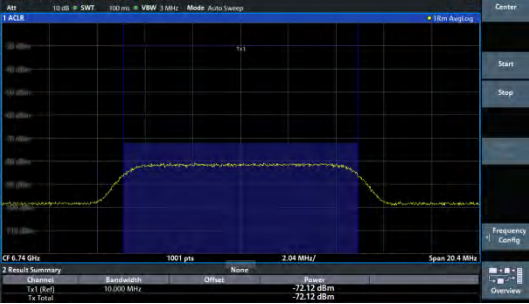
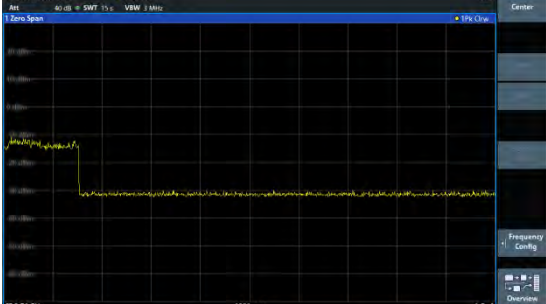
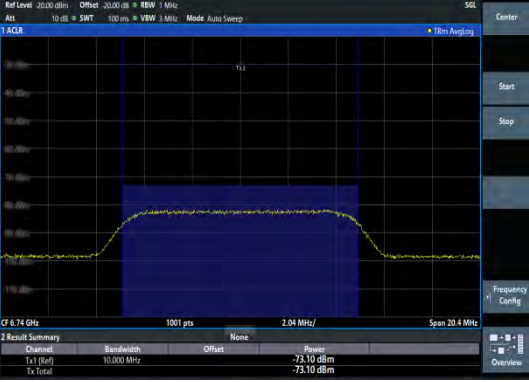
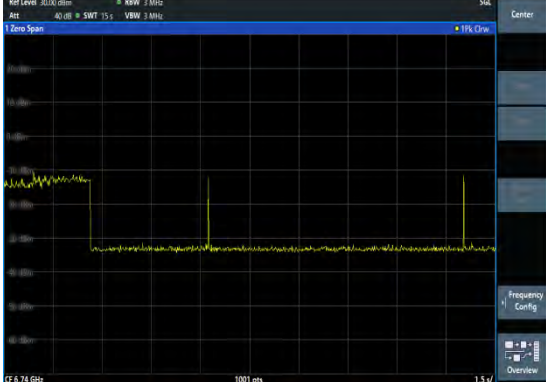
802.11 ax (HE160) /6505MHz
Threshold Level (TL)

802.11 ax (HE160) /6505MHz
Test Result is pass due to no transmission occur.

802.11 ax (HE160) /6505MHz
Threshold Level (TL)

802.11 ax (HE160) /6505MHz
Transmission when the interferer is Minimal Operation


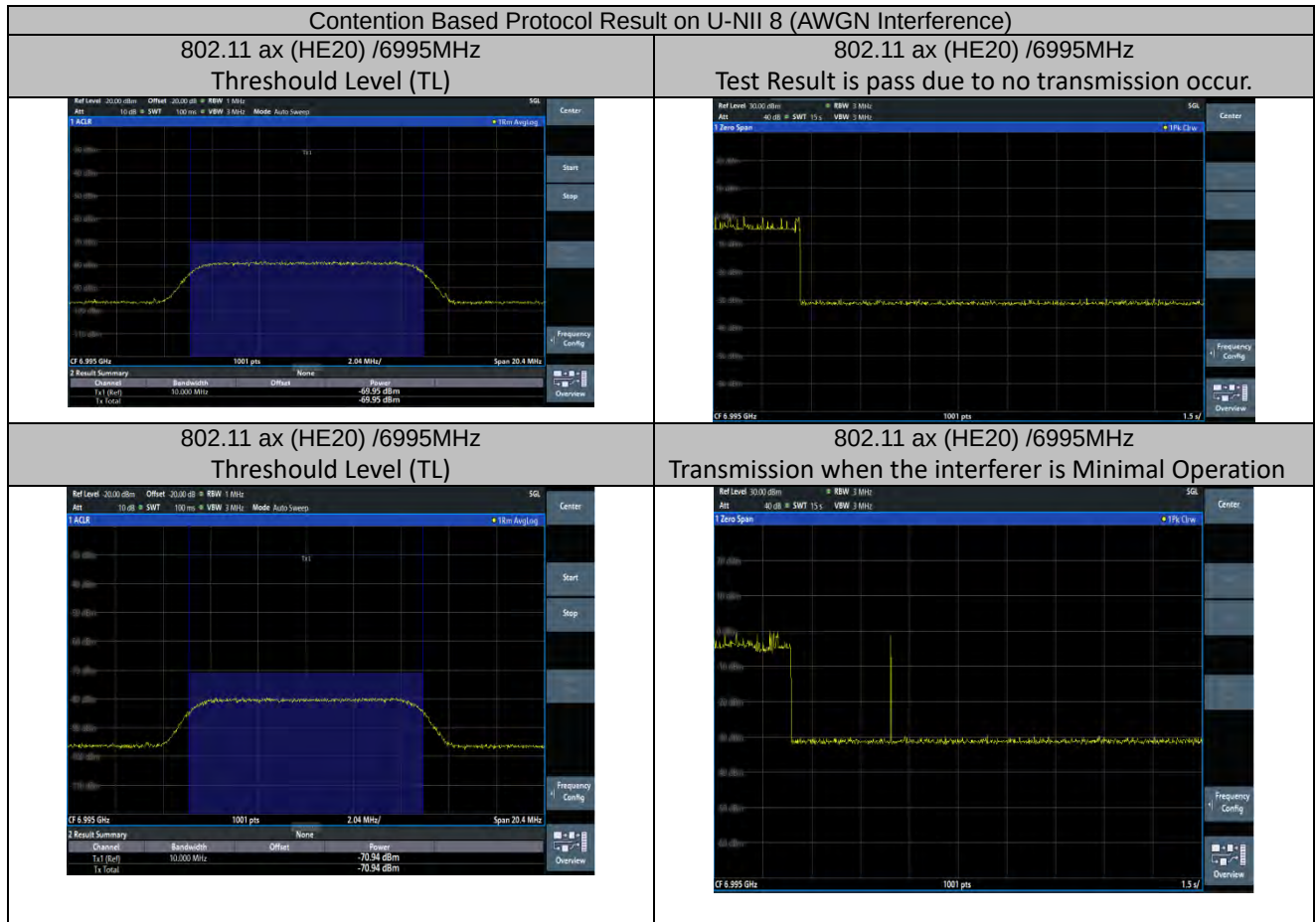


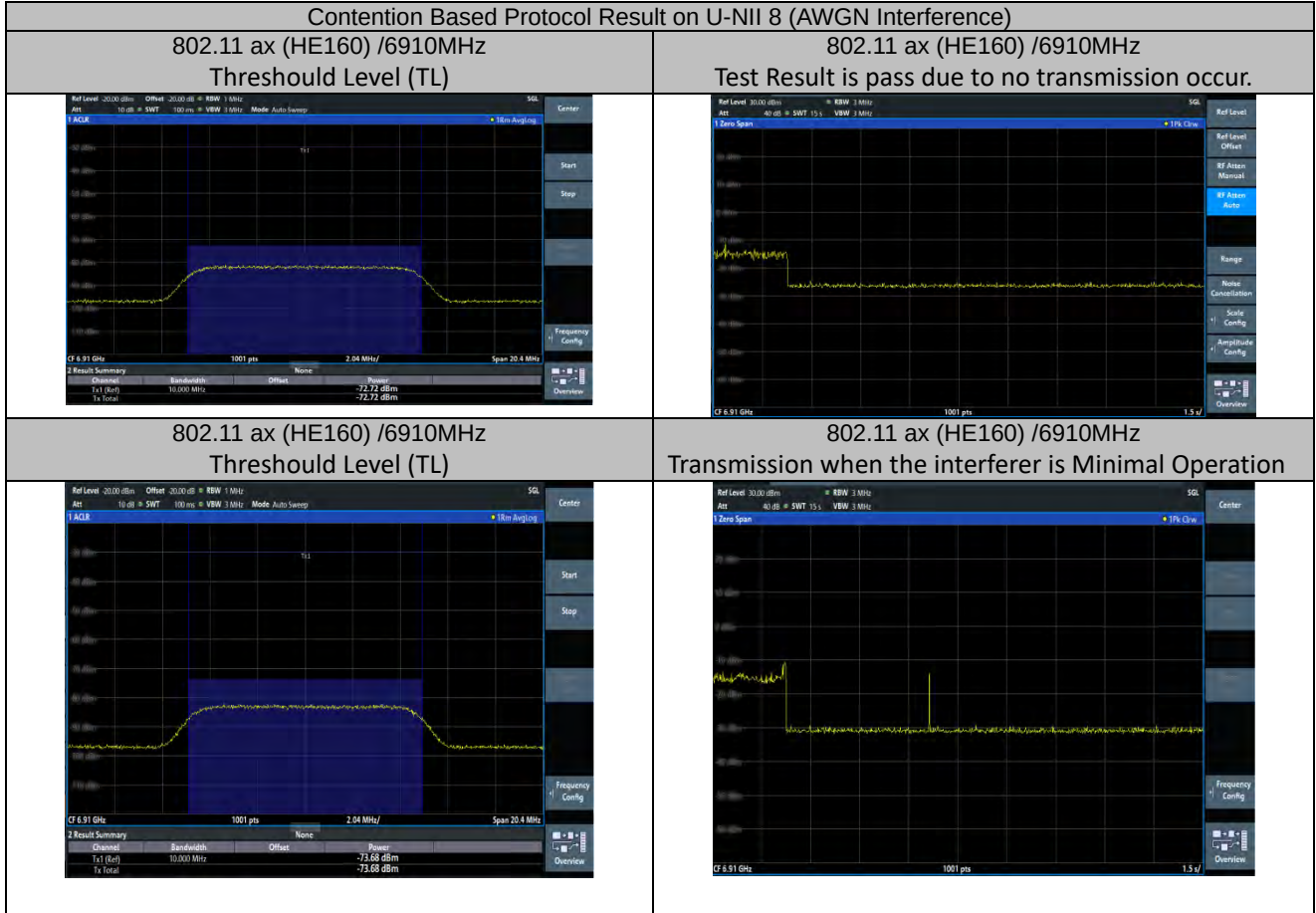


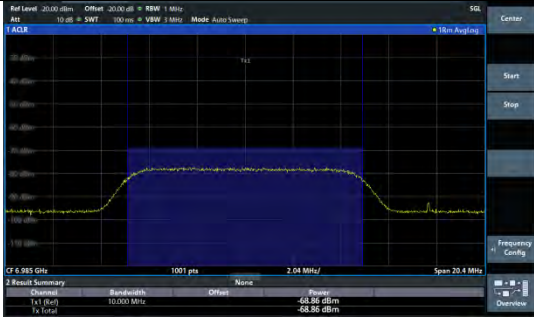
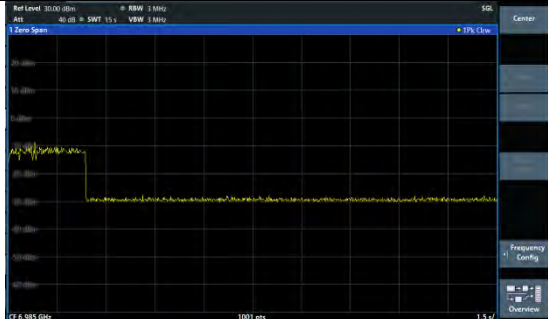
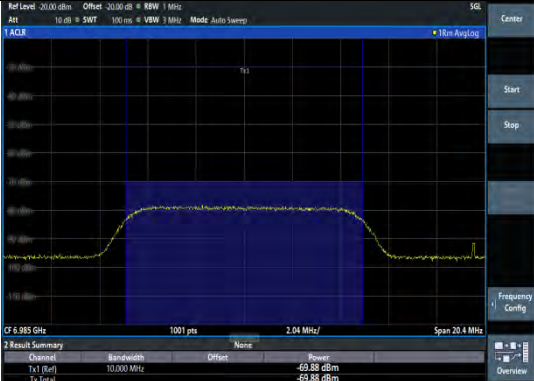
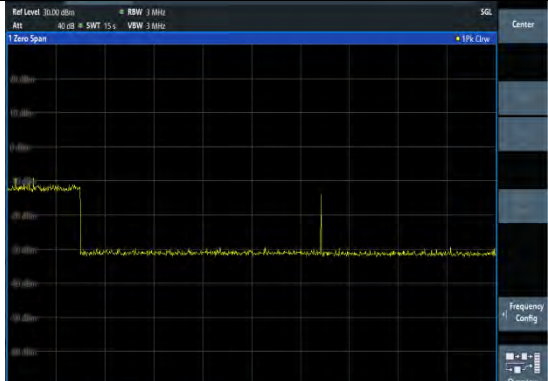
Contention Based Protocol Result on U-NII 7 (AWGN Interference)	
802.11 ax (HE160) /6590MHz Threshold Level (TL) 	802.11 ax (HE160) /6590MHz Test Result is pass due to no transmission occur. 
802.11 ax (HE160) /6590MHz Threshold Level (TL) 	802.11 ax (HE160) /6590MHz Transmission when the interferer is Minimal Operation 

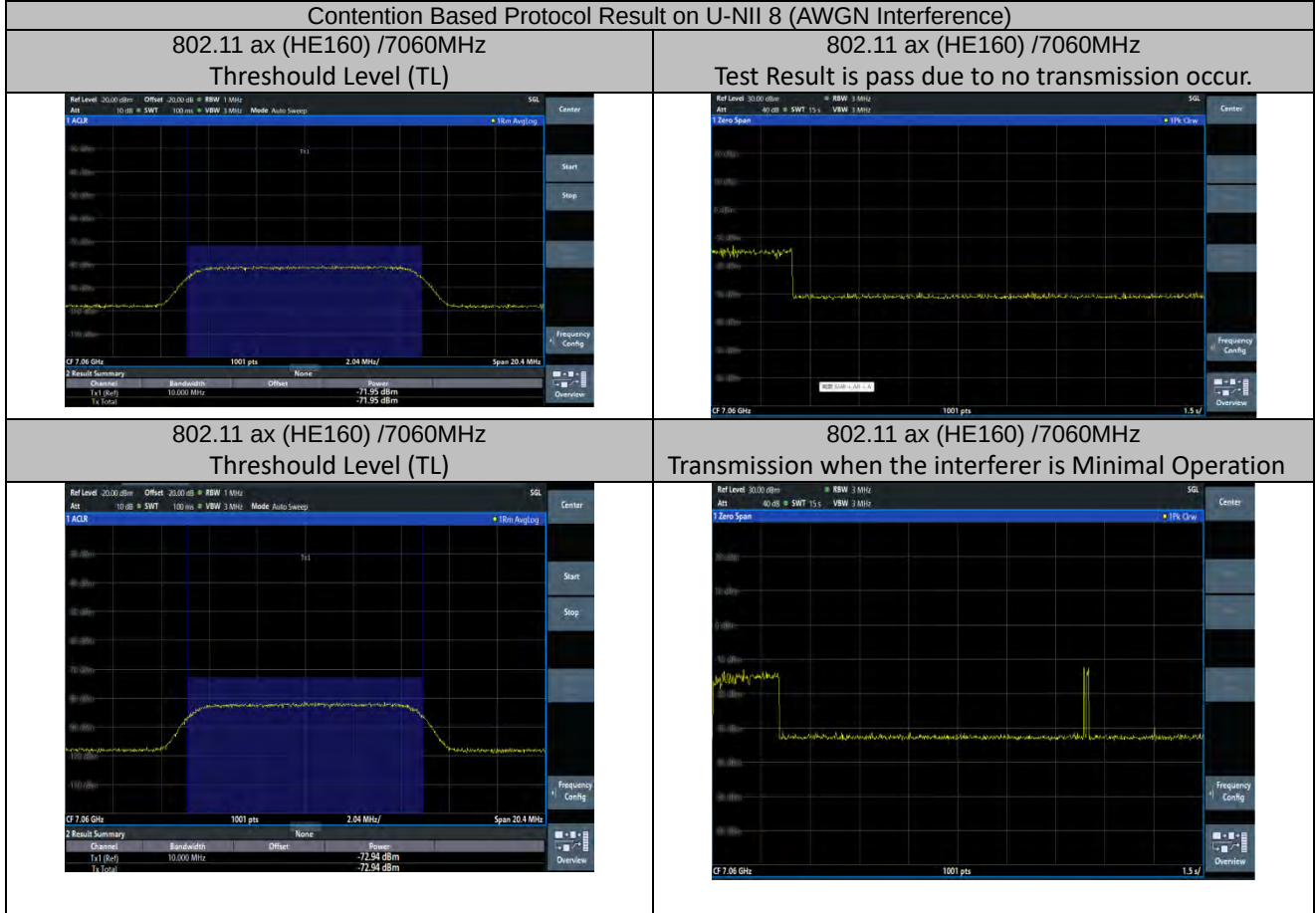


Contention Based Protocol Result on U-NII 7 (AWGN Interference)	
802.11 ax (HE160) /6740MHz Threshold Level (TL) 	802.11 ax (HE160) /6740MHz Test Result is pass due to no transmission occur. 
802.11 ax (HE160) /6740MHz Threshold Level (TL) 	802.11 ax (HE160) /6740MHz Transmission when the interferer is Minimal Operation 





Contention Based Protocol Result on U-NII 8 (AWGN Interference)	
802.11 ax (HE160) /6985MHz Threshold Level (TL) 	802.11 ax (HE160) /6985MHz Test Result is pass due to no transmission occur. 
802.11 ax (HE160) /6985MHz Threshold Level (TL) 	802.11 ax (HE160) /6985MHz Transmission when the interferer is Minimal Operation 

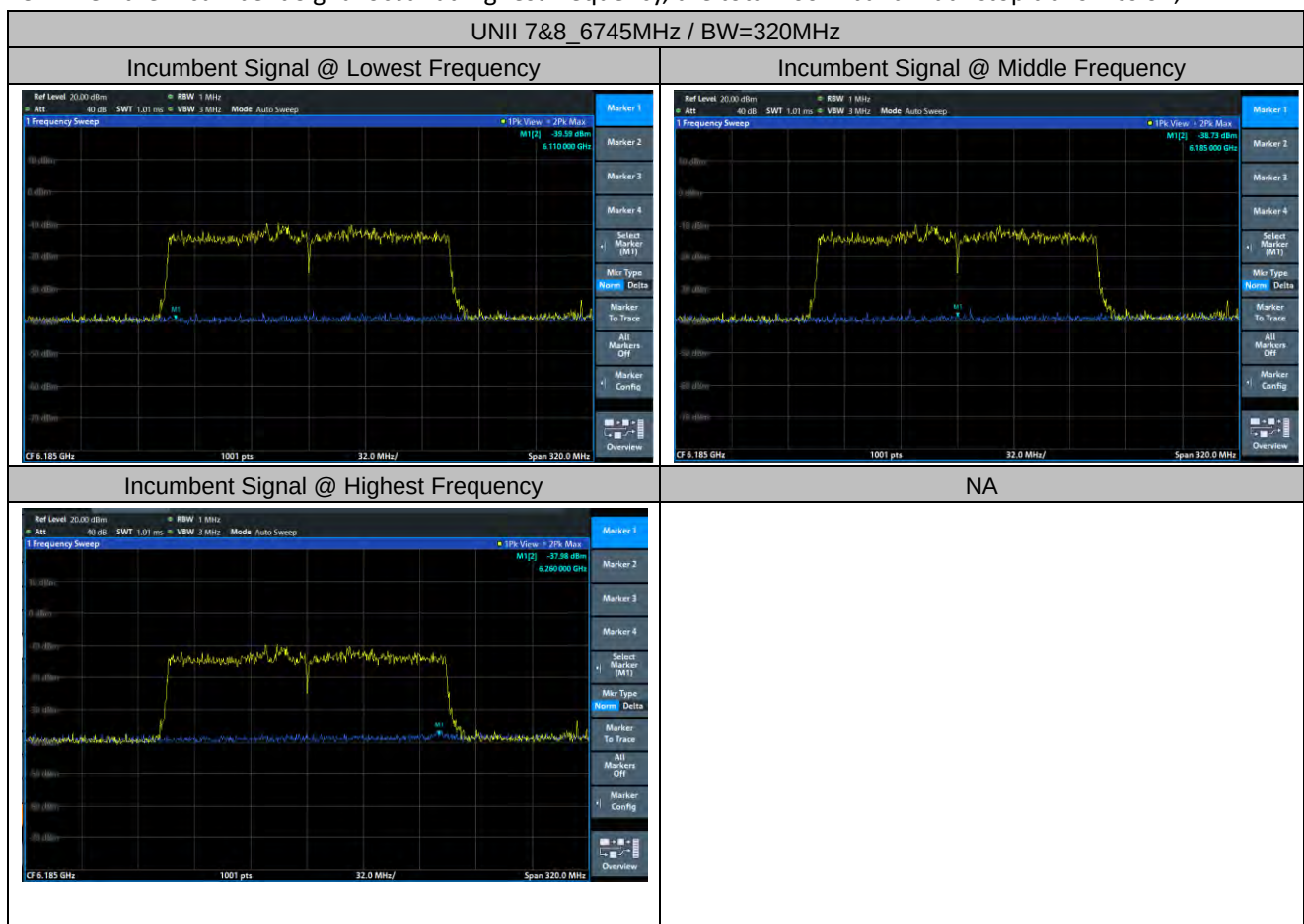


Verify Contention Based Protocol Transmission Bandwidth Reduction

802.11ax does not support channel puncturing in CBP mode, only channel bandwidth reduction is applied.

The yellow trace show the full 160MHz transmission prior to AWGN injection, the blue trace show the transmission spectrum after AWGN injection:

1. When the Incumbent Signal occur at lowest frequency, the total 160M bandwidth stop transmission;
2. When the Incumbent Signal occur at middle frequency, the total 160M bandwidth stop transmission;
3. When the Incumbent Signal occur at highest frequency, the total 160M bandwidth stop transmission;



- End of the Report -