

Out of Band Conducted Emissions Measurement

■ Test Graphs

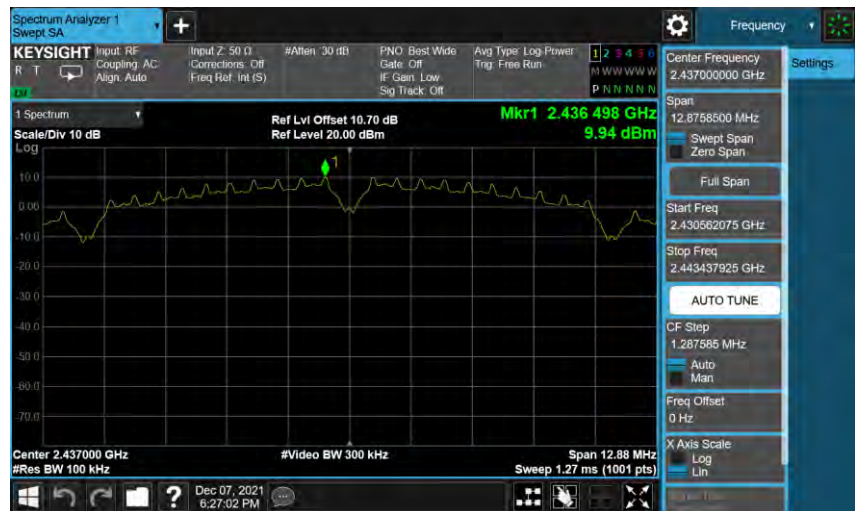
Reference level

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

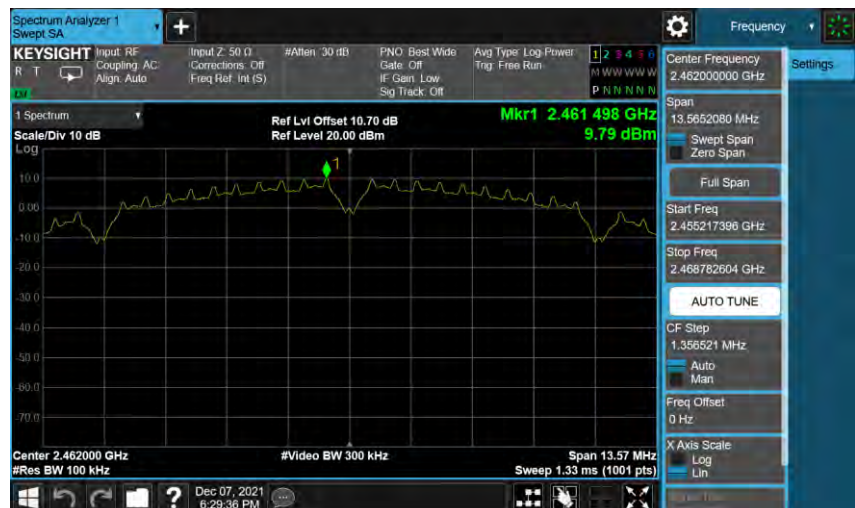
2412 MHz



2437 MHz



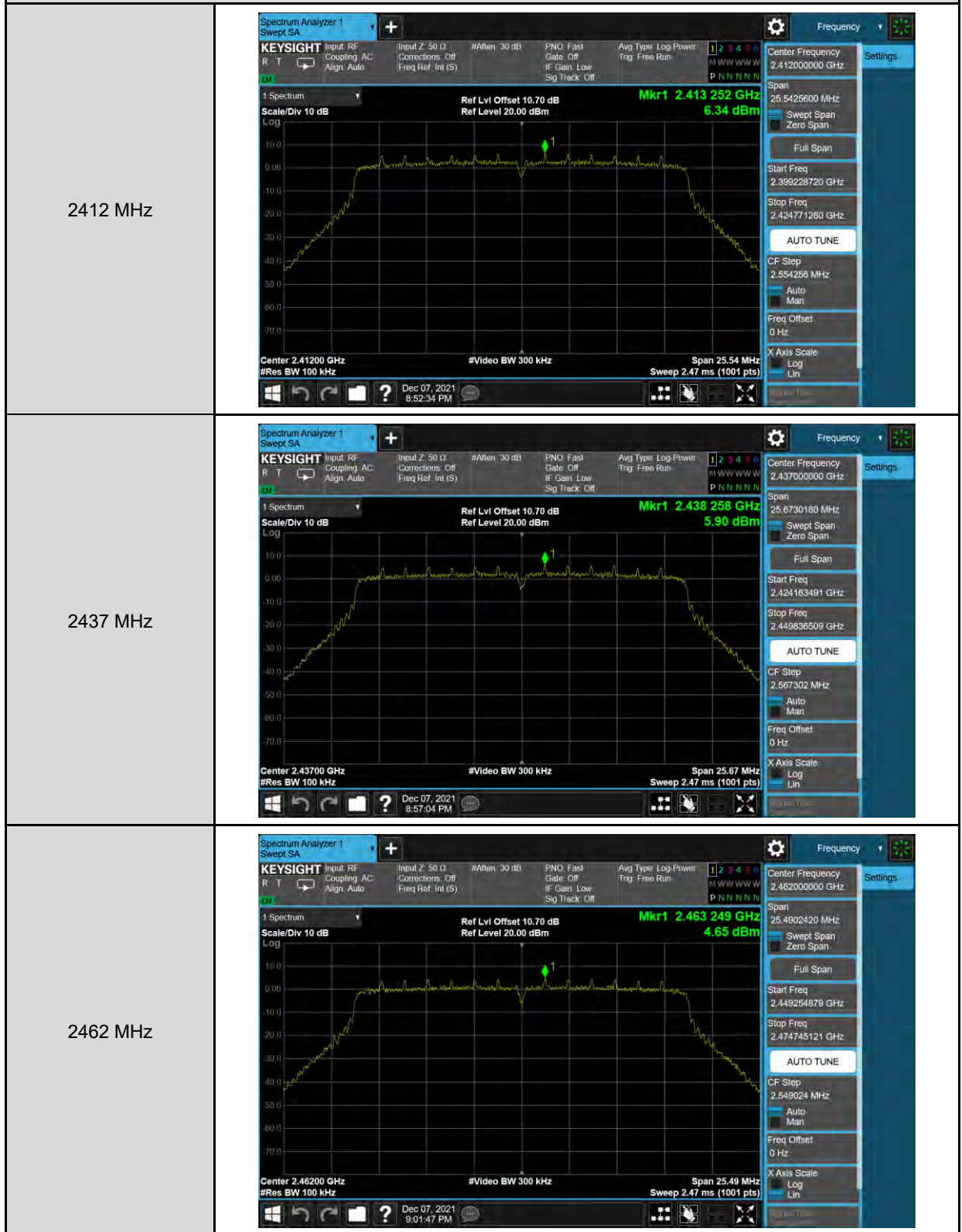
2462 MHz



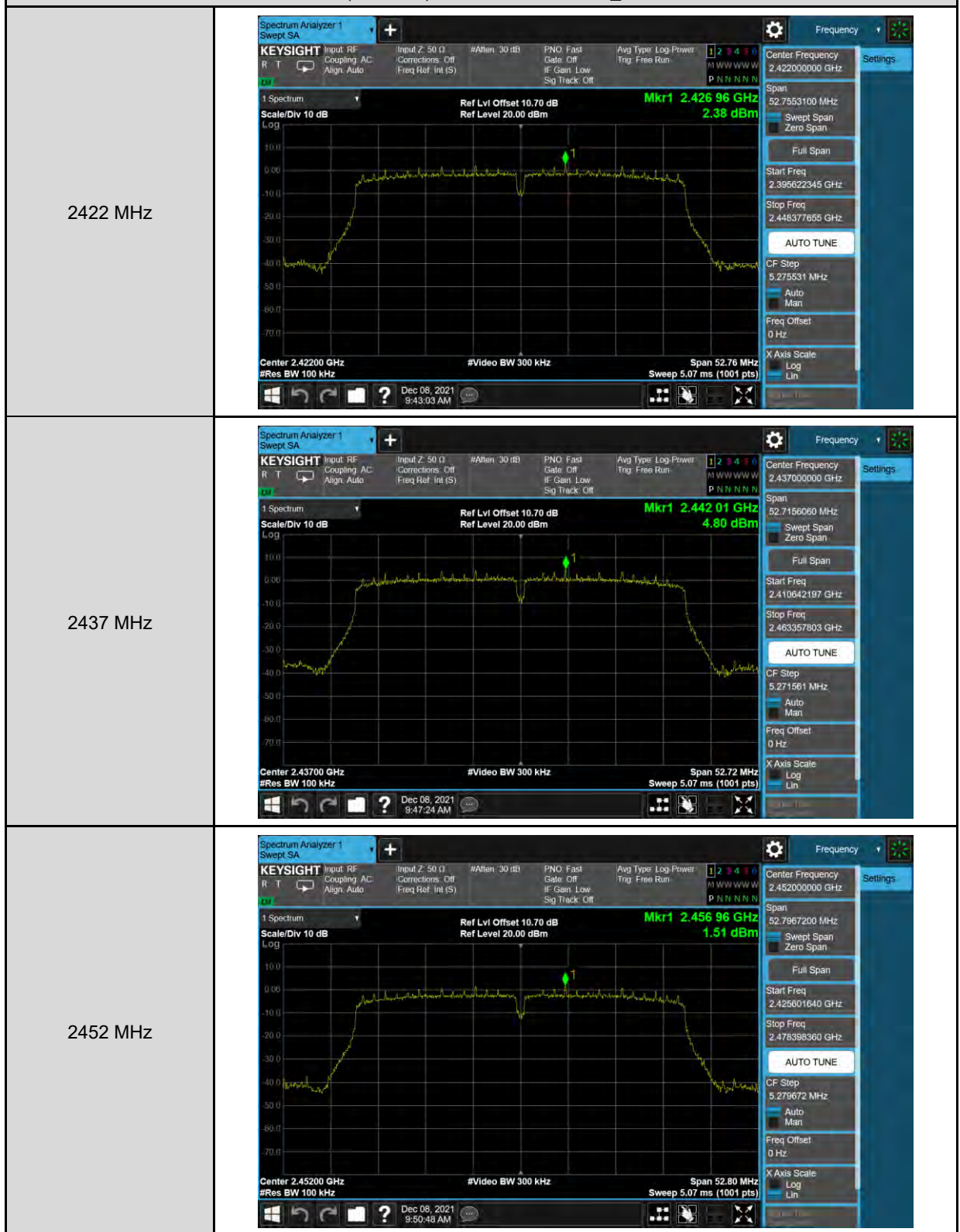
Mode 3: IEEE 802.11g Continuous TX mode_ANT-0



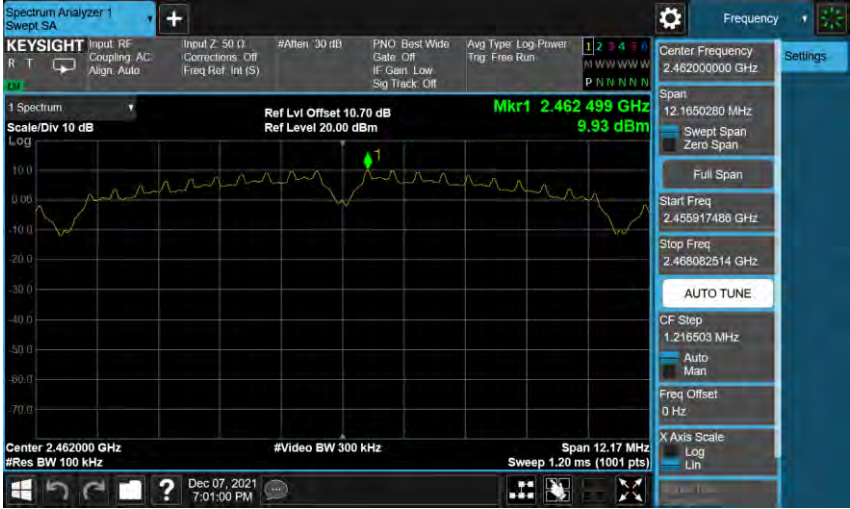
Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-0



Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-0



Mode 2: IEEE 802.11b Continuous TX mode_ANT-1

2412 MHz	
2437 MHz	
2462 MHz	

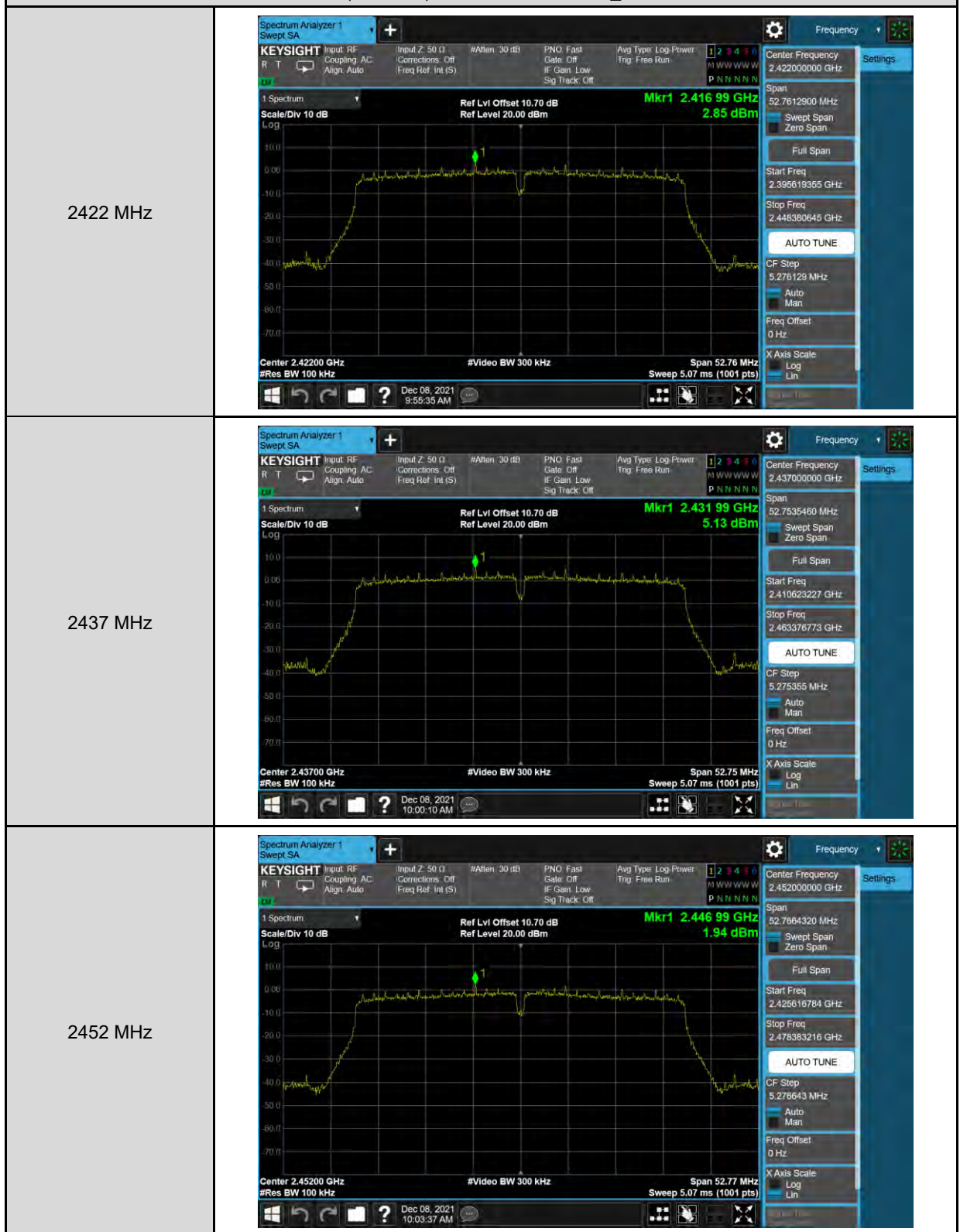
Mode 3: IEEE 802.11g Continuous TX mode_ANT-1



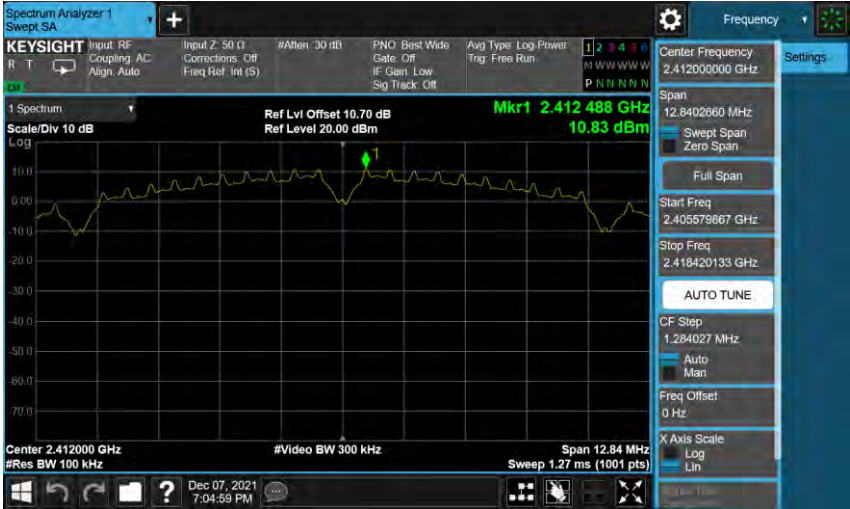
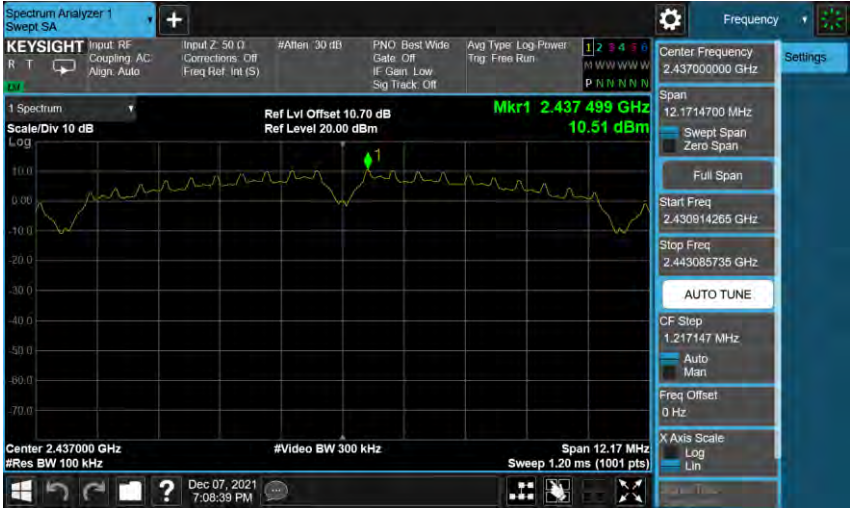
Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-1



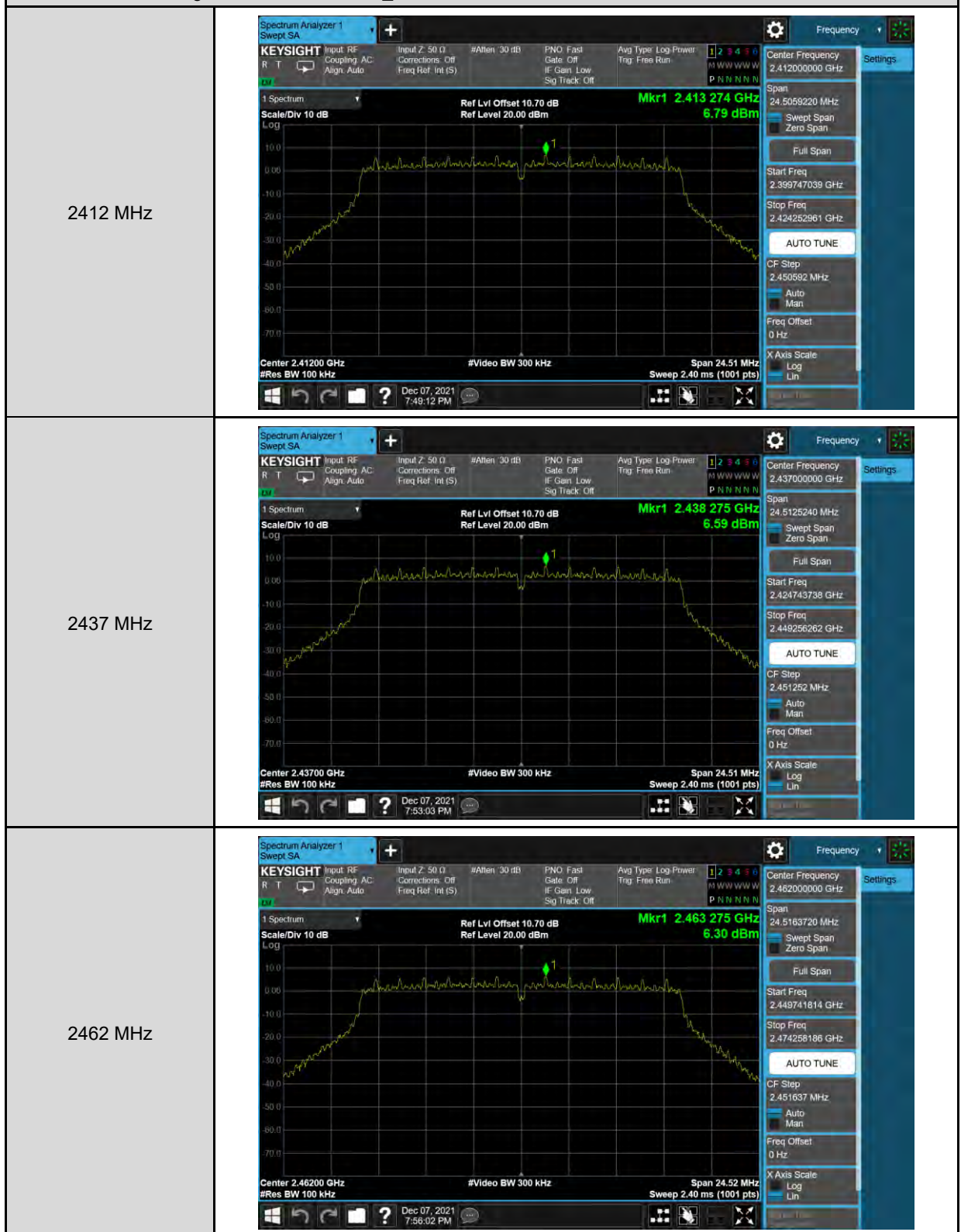
Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-1



Mode 2: IEEE 802.11b Continuous TX mode_ANT-2

2412 MHz	
2437 MHz	
2462 MHz	

Mode 3: IEEE 802.11g Continuous TX mode_ANT-2



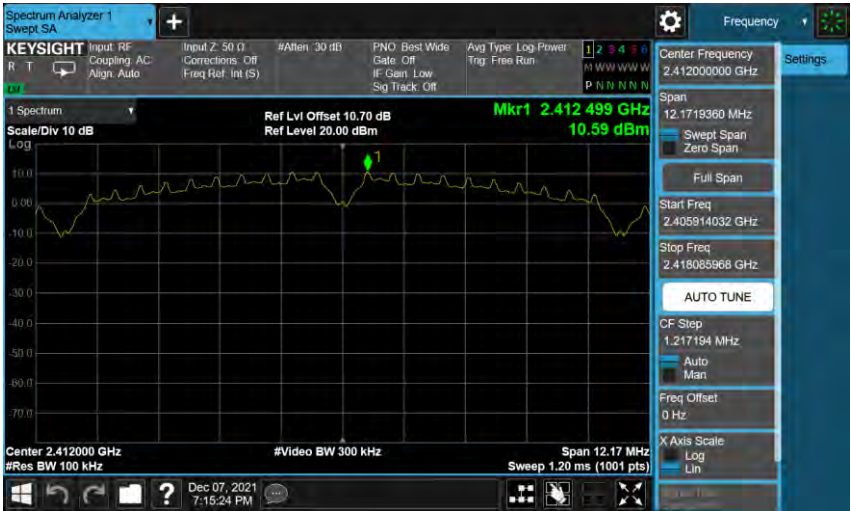
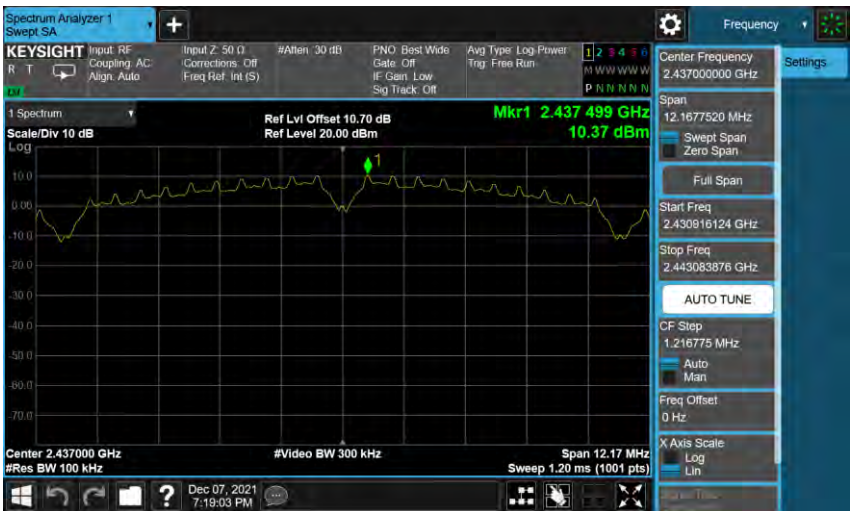
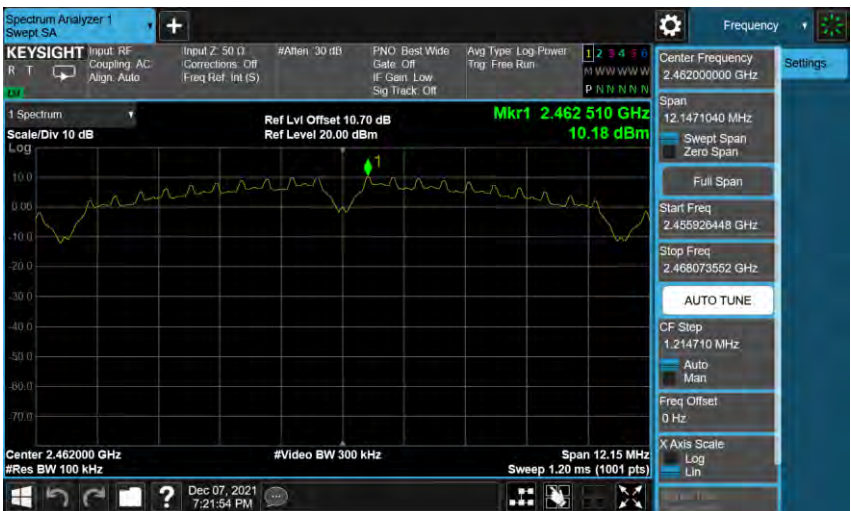
Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-2



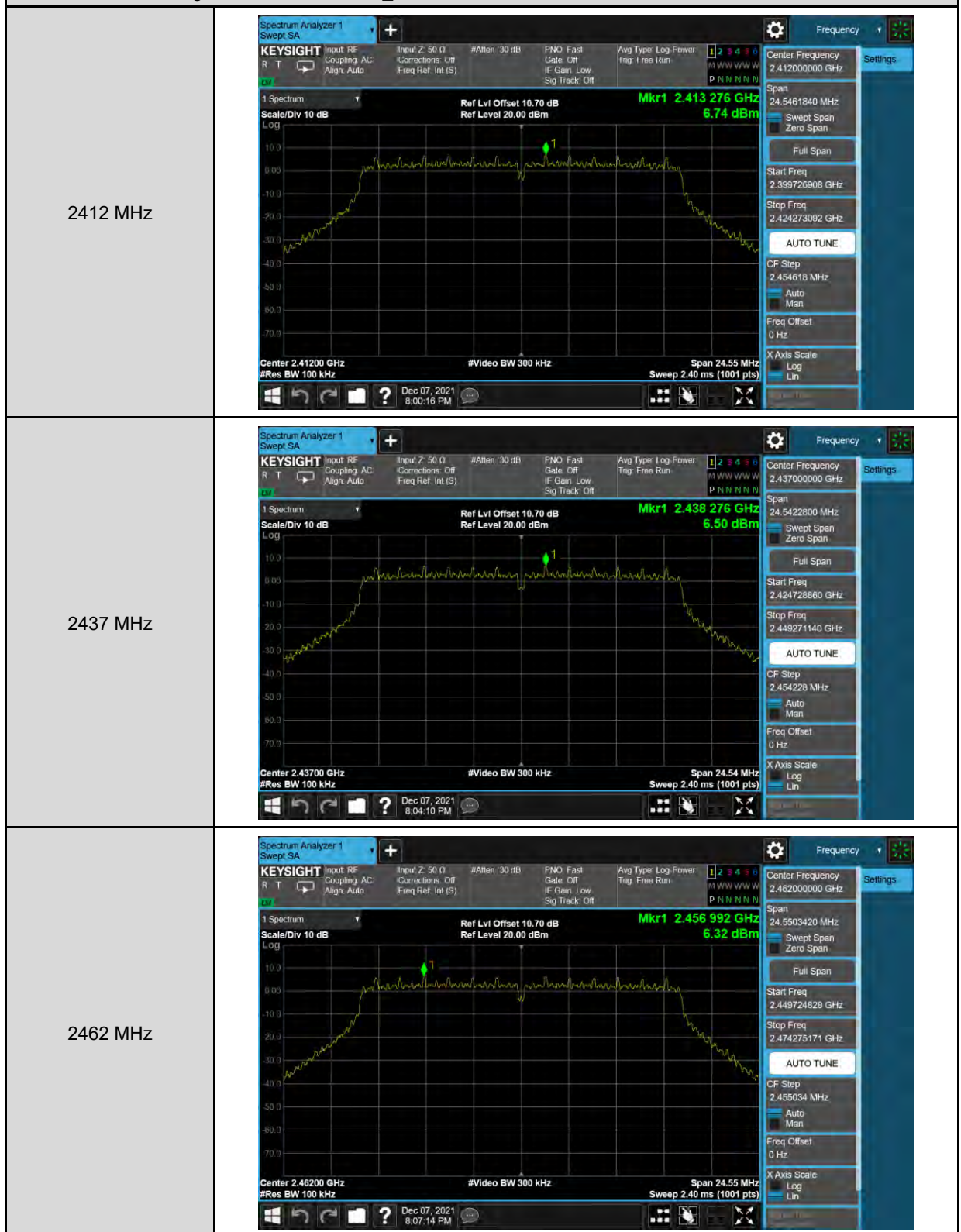
Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-2

2422 MHz	 Center Frequency: 2.42200000 GHz Span: 52.762600 MHz Start Freq: 2.395621870 GHz Stop Freq: 2.448378130 GHz Mkr1 2.427 01 GHz 2.88 dBm Center 2.42200 GHz #Res BW 100 kHz #Video BW 300 kHz Sweep 5.07 ms (1001 pts)
2437 MHz	 Center Frequency: 2.43700000 GHz Span: 52.7667520 MHz Start Freq: 2.410616624 GHz Stop Freq: 2.463383376 GHz Mkr1 2.431 99 GHz 5.35 dBm Center 2.43700 GHz #Res BW 100 kHz #Video BW 300 kHz Sweep 5.07 ms (1001 pts)
2452 MHz	 Center Frequency: 2.45200000 GHz Span: 52.8655160 MHz Start Freq: 2.425567242 GHz Stop Freq: 2.478432758 GHz Mkr1 2.446 98 GHz 1.78 dBm Center 2.45200 GHz #Res BW 100 kHz #Video BW 300 kHz Sweep 5.07 ms (1001 pts)

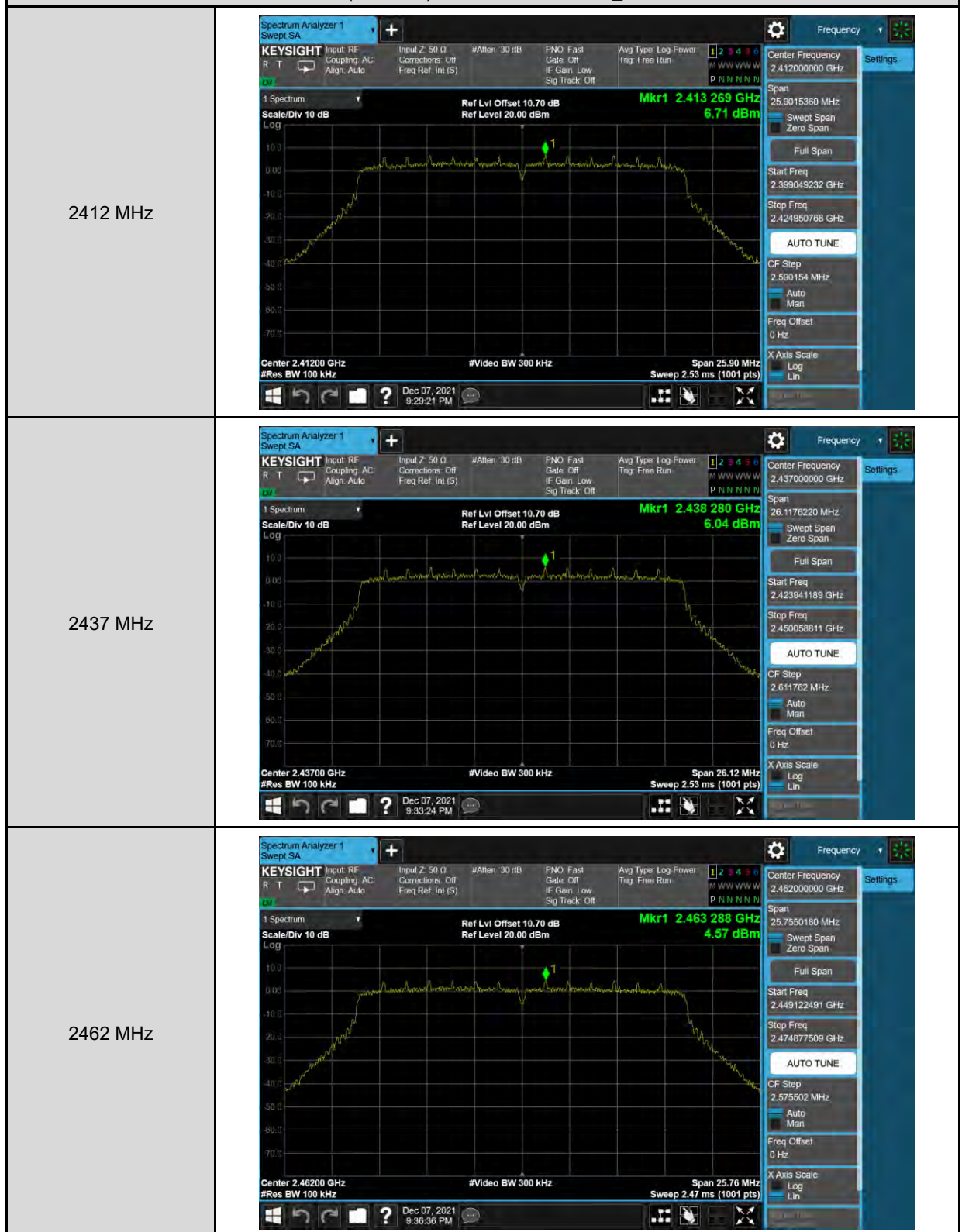
Mode 2: IEEE 802.11b Continuous TX mode_ANT-3

2412 MHz	
2437 MHz	
2462 MHz	

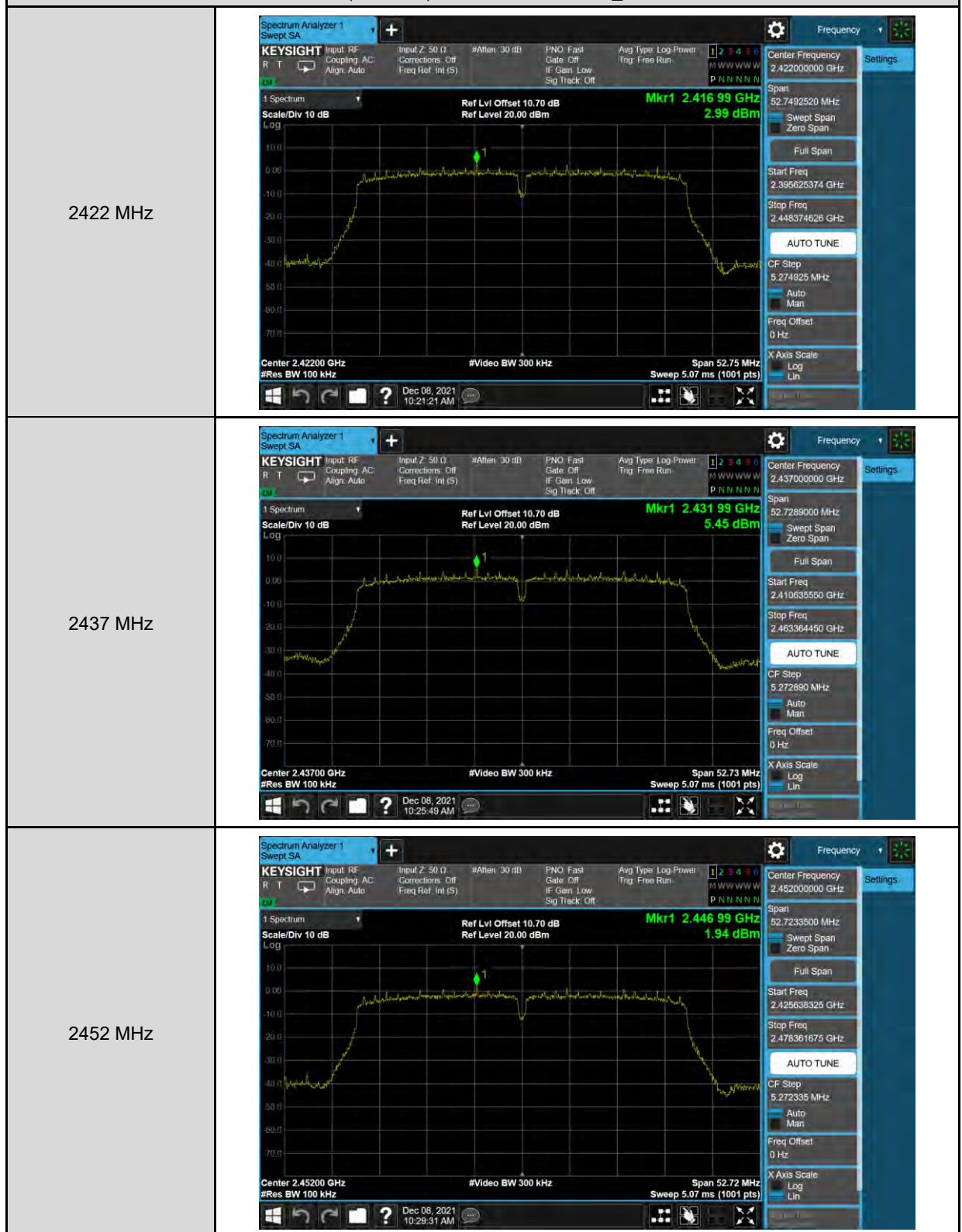
Mode 3: IEEE 802.11g Continuous TX mode_ANT-3



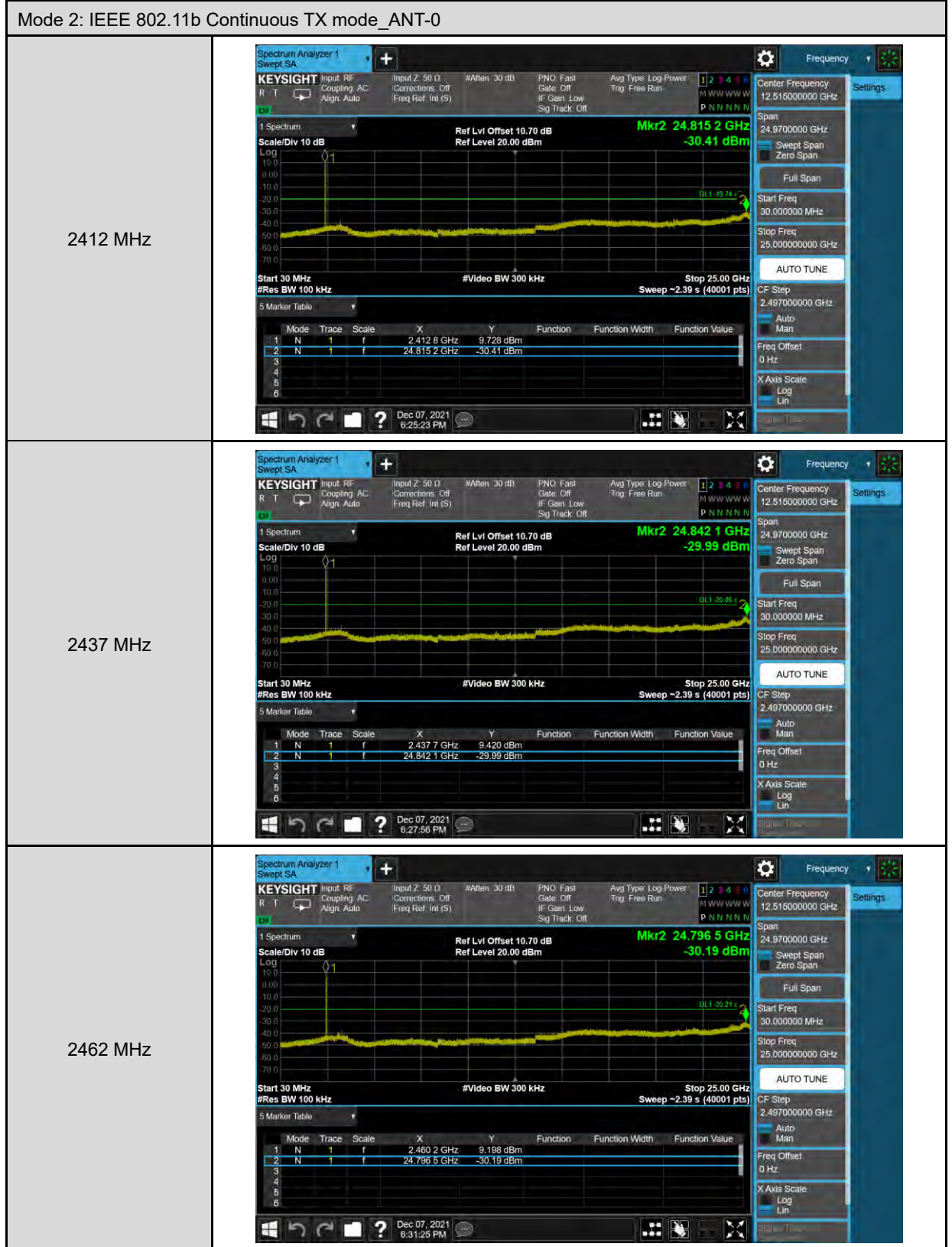
Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-3



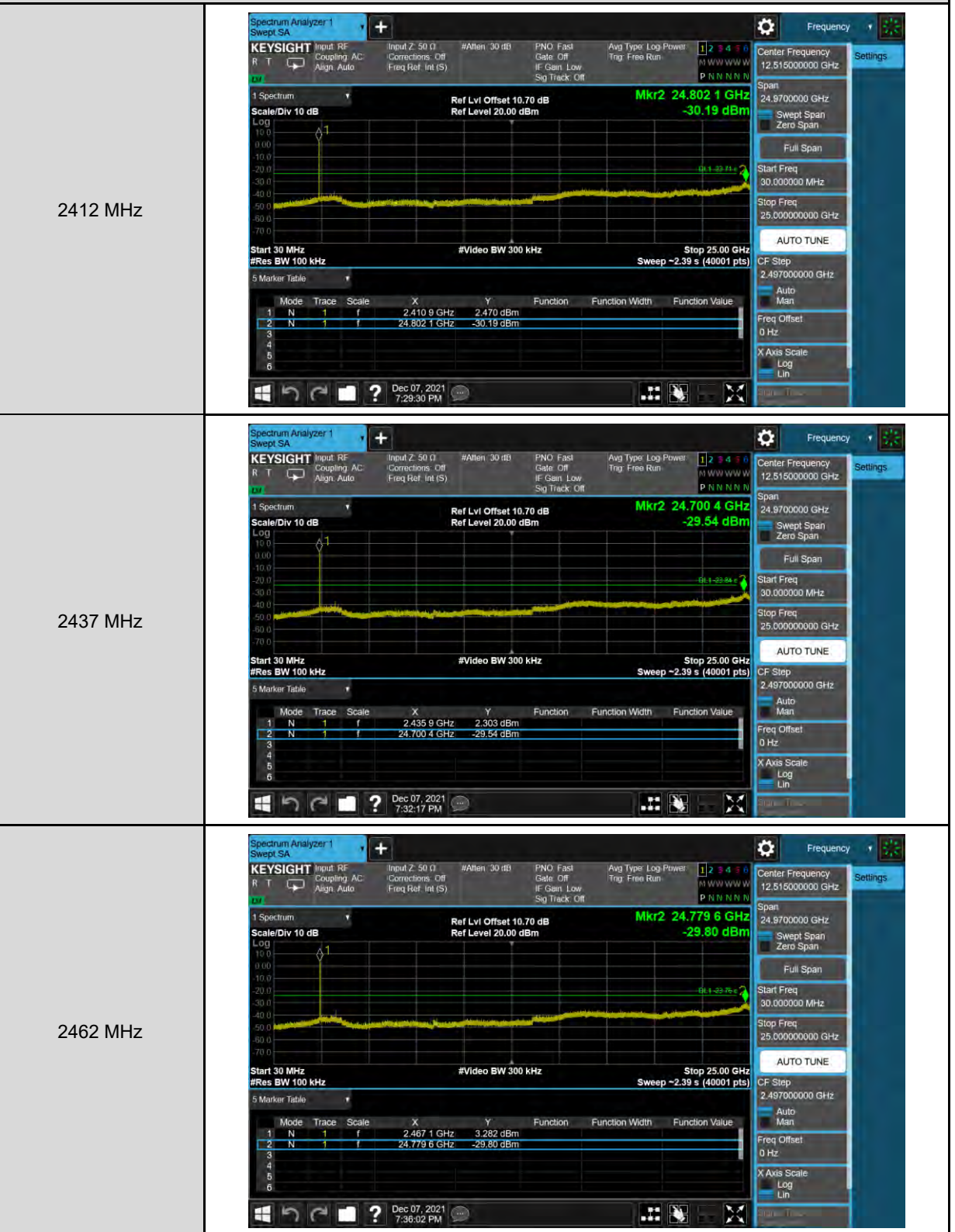
Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-3



Out of Band Conducted Spurious Emission



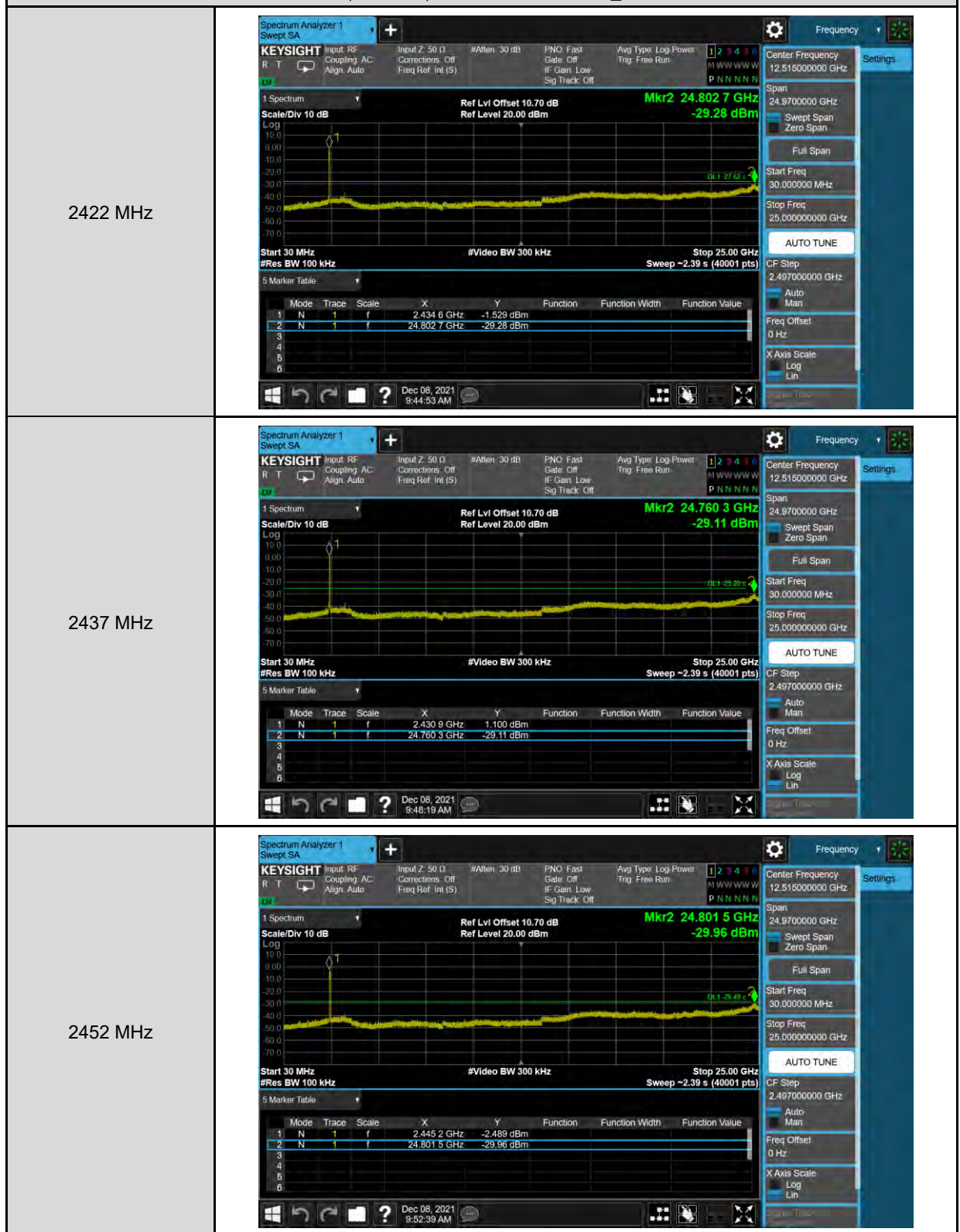
Mode 3: IEEE 802.11g Continuous TX mode_ANT-0



Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-0

2412 MHz	
2437 MHz	
2462 MHz	

Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-0



Mode 2: IEEE 802.11b Continuous TX mode_ANT-1

2412 MHz	 Center Frequency: 12.51500000 GHz Span: 24.9700000 GHz Start Freq: 30.000000 MHz Stop Freq: 25.00000000 GHz AUTO TUNE CF Step: 2.497000000 GHz Freq Offset: 0 Hz X Axis Scale: Log Marker Table: <table><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>24.128 GHz</td><td>9.798 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.759 GHz</td><td>-30.04 dBm</td><td></td><td></td></tr></table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	24.128 GHz	9.798 dBm			2	N	1	f	24.759 GHz	-30.04 dBm		
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																		
1	N	1	f	24.128 GHz	9.798 dBm																				
2	N	1	f	24.759 GHz	-30.04 dBm																				
2437 MHz	 Center Frequency: 12.51500000 GHz Span: 24.9700000 GHz Start Freq: 30.000000 MHz Stop Freq: 25.00000000 GHz AUTO TUNE CF Step: 2.497000000 GHz Freq Offset: 0 Hz X Axis Scale: Log Marker Table: <table><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>24.365 GHz</td><td>9.184 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.729 GHz</td><td>-29.81 dBm</td><td></td><td></td></tr></table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	24.365 GHz	9.184 dBm			2	N	1	f	24.729 GHz	-29.81 dBm		
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																		
1	N	1	f	24.365 GHz	9.184 dBm																				
2	N	1	f	24.729 GHz	-29.81 dBm																				
2462 MHz	 Center Frequency: 12.51500000 GHz Span: 24.9700000 GHz Start Freq: 30.000000 MHz Stop Freq: 25.00000000 GHz AUTO TUNE CF Step: 2.497000000 GHz Freq Offset: 0 Hz X Axis Scale: Log Marker Table: <table><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>24.460 GHz</td><td>9.050 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.749 GHz</td><td>-30.29 dBm</td><td></td><td></td></tr></table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	24.460 GHz	9.050 dBm			2	N	1	f	24.749 GHz	-30.29 dBm		
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																		
1	N	1	f	24.460 GHz	9.050 dBm																				
2	N	1	f	24.749 GHz	-30.29 dBm																				

Mode 3: IEEE 802.11g Continuous TX mode_ANT-1

2412 MHz



2437 MHz



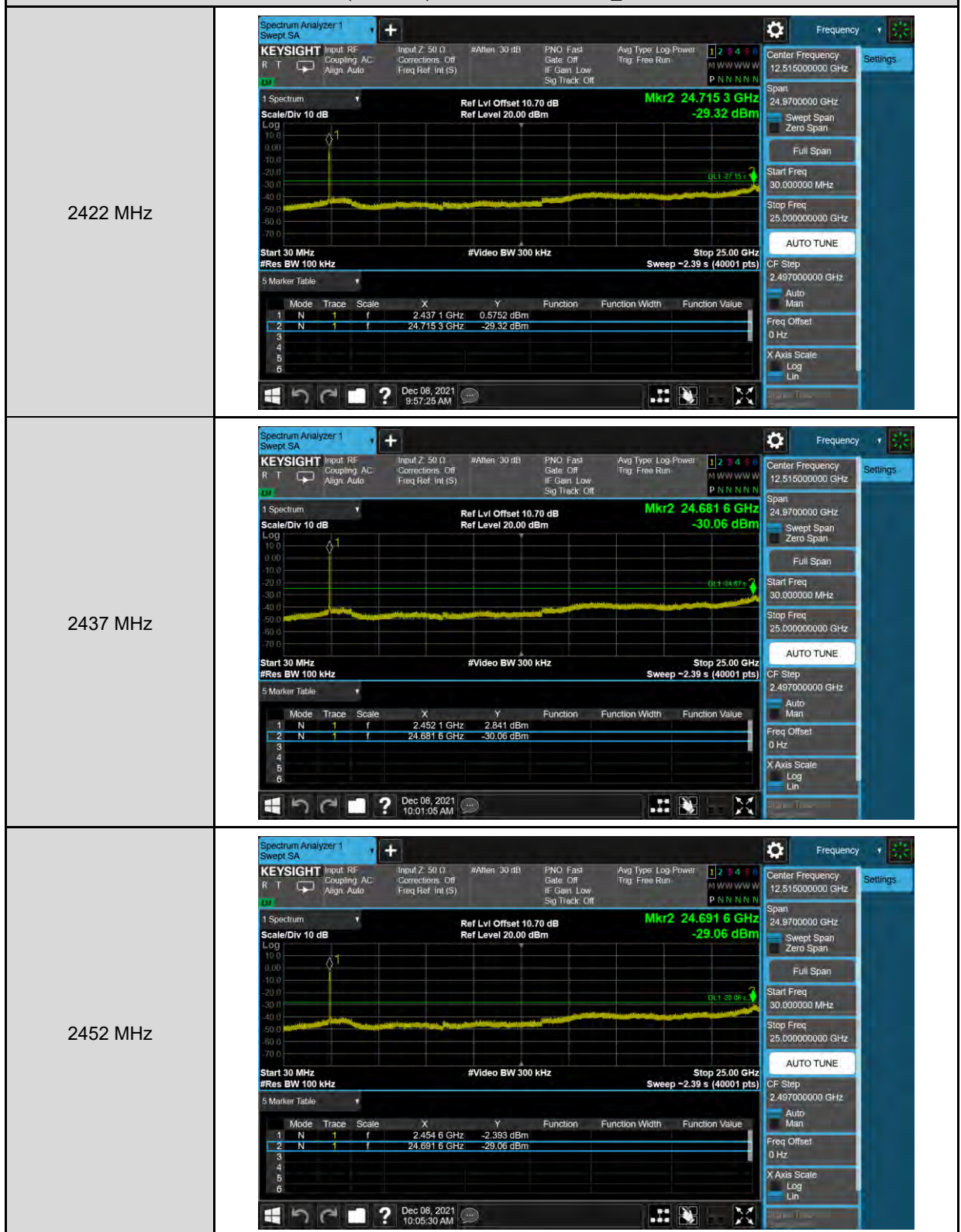
2462 MHz



Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-1

2412 MHz	 Keysight Spectrum Analyzer 1 Sweep SA Center Frequency: 12.51500000 GHz Span: 24.9700000 GHz Start Freq: 30.000000 MHz Stop Freq: 25.00000000 GHz AUTO TUNE CF Step: 2.497000000 GHz Freq Offset: 0 Hz X Axis Scale: Log Marker Table: <table><thead><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.409 6 GHz</td><td>3.022 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.817 7 GHz</td><td>-29.54 dBm</td><td></td><td></td></tr></tbody></table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	2.409 6 GHz	3.022 dBm			2	N	1	f	24.817 7 GHz	-29.54 dBm		
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																		
1	N	1	f	2.409 6 GHz	3.022 dBm																				
2	N	1	f	24.817 7 GHz	-29.54 dBm																				
2437 MHz	 Keysight Spectrum Analyzer 1 Sweep SA Center Frequency: 12.51500000 GHz Span: 24.9700000 GHz Start Freq: 30.000000 MHz Stop Freq: 25.00000000 GHz AUTO TUNE CF Step: 2.497000000 GHz Freq Offset: 0 Hz X Axis Scale: Log Marker Table: <table><thead><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.432 1 GHz</td><td>5.137 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.718 5 GHz</td><td>-29.08 dBm</td><td></td><td></td></tr></tbody></table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	2.432 1 GHz	5.137 dBm			2	N	1	f	24.718 5 GHz	-29.08 dBm		
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Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																		
1	N	1	f	2.466 4 GHz	1.101 dBm																				
2	N	1	f	24.795 9 GHz	-29.90 dBm																				

Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-1



Mode 2: IEEE 802.11b Continuous TX mode_ANT-2

2412 MHz



2437 MHz



2462 MHz



Mode 3: IEEE 802.11g Continuous TX mode_ANT-2

2412 MHz	 Center Frequency: 12.51500000 GHz Span: 24.9700000 GHz Start Freq: 30.000000 MHz Stop Freq: 25.00000000 GHz AUTO TUNE CF Step: 2.497000000 GHz Freq Offset: 0 Hz X Axis Scale: Log Marker Table: <table><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.409 6 GHz</td><td>4.296 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.720 3 GHz</td><td>-30.12 dBm</td><td></td><td></td></tr></table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	2.409 6 GHz	4.296 dBm			2	N	1	f	24.720 3 GHz	-30.12 dBm		
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																		
1	N	1	f	2.409 6 GHz	4.296 dBm																				
2	N	1	f	24.720 3 GHz	-30.12 dBm																				
2437 MHz	 Center Frequency: 12.51500000 GHz Span: 24.9700000 GHz Start Freq: 30.000000 MHz Stop Freq: 25.00000000 GHz AUTO TUNE CF Step: 2.497000000 GHz Freq Offset: 0 Hz X Axis Scale: Log Marker Table: <table><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.435 9 GHz</td><td>3.032 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.722 2 GHz</td><td>-29.30 dBm</td><td></td><td></td></tr></table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	2.435 9 GHz	3.032 dBm			2	N	1	f	24.722 2 GHz	-29.30 dBm		
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1	N	1	f	2.435 9 GHz	3.032 dBm																				
2	N	1	f	24.722 2 GHz	-29.30 dBm																				
2462 MHz	 Center Frequency: 12.51500000 GHz Span: 24.9700000 GHz Start Freq: 30.000000 MHz Stop Freq: 25.00000000 GHz AUTO TUNE CF Step: 2.497000000 GHz Freq Offset: 0 Hz X Axis Scale: Log Marker Table: <table><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.455 8 GHz</td><td>3.899 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.759 0 GHz</td><td>-30.45 dBm</td><td></td><td></td></tr></table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	2.455 8 GHz	3.899 dBm			2	N	1	f	24.759 0 GHz	-30.45 dBm		
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																		
1	N	1	f	2.455 8 GHz	3.899 dBm																				
2	N	1	f	24.759 0 GHz	-30.45 dBm																				

Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-2

2412 MHz	 Keysight Spectrum Analyzer 1 Sweep SA Center Frequency: 12.515000000 GHz Span: 24.9700000 GHz Start Freq: 30.000000 MHz Stop Freq: 25.000000000 GHz AUTO TUNE CF Step: 2.497000000 GHz Freq Offset: 0 Hz X Axis Scale: Log Marker Table: <table><thead><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>24.046 GHz</td><td>4.010 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.8158 GHz</td><td>-29.57 dBm</td><td></td><td></td></tr></tbody></table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	24.046 GHz	4.010 dBm			2	N	1	f	24.8158 GHz	-29.57 dBm		
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2	N	1	f	24.8158 GHz	-29.57 dBm																				
2437 MHz	 Keysight Spectrum Analyzer 1 Sweep SA Center Frequency: 12.515000000 GHz Span: 24.9700000 GHz Start Freq: 30.000000 MHz Stop Freq: 25.000000000 GHz AUTO TUNE CF Step: 2.497000000 GHz Freq Offset: 0 Hz X Axis Scale: Log Marker Table: <table><thead><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>24.3346 GHz</td><td>3.694 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.7540 GHz</td><td>-29.38 dBm</td><td></td><td></td></tr></tbody></table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	24.3346 GHz	3.694 dBm			2	N	1	f	24.7540 GHz	-29.38 dBm		
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2462 MHz	 Keysight Spectrum Analyzer 1 Sweep SA Center Frequency: 12.515000000 GHz Span: 24.9700000 GHz Start Freq: 30.000000 MHz Stop Freq: 25.000000000 GHz AUTO TUNE CF Step: 2.497000000 GHz Freq Offset: 0 Hz X Axis Scale: Log Marker Table: <table><thead><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>24.4633 GHz</td><td>0.9924 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.7029 GHz</td><td>-29.77 dBm</td><td></td><td></td></tr></tbody></table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	24.4633 GHz	0.9924 dBm			2	N	1	f	24.7029 GHz	-29.77 dBm		
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																		
1	N	1	f	24.4633 GHz	0.9924 dBm																				
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Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-2

2422 MHz	 Keysight Spectrum Analyzer 1 Sweep SA Center Frequency: 12.515000000 GHz Span: 24.9700000 GHz Start Freq: 30.0000000 MHz Stop Freq: 25.000000000 GHz AUTO TUNE CF Step: 2.497000000 GHz Freq Offset: 0 Hz X Axis Scale: Log Marker Table: <table><thead><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.427 1 GHz</td><td>2.700 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.750 3 GHz</td><td>-29.66 dBm</td><td></td><td></td></tr></tbody></table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	2.427 1 GHz	2.700 dBm			2	N	1	f	24.750 3 GHz	-29.66 dBm		
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																		
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1	N	1	f	2.442 1 GHz	3.637 dBm																				
2	N	1	f	24.795 9 GHz	-30.56 dBm																				
2452 MHz	 Keysight Spectrum Analyzer 1 Sweep SA Center Frequency: 12.515000000 GHz Span: 24.9700000 GHz Start Freq: 30.0000000 MHz Stop Freq: 25.000000000 GHz AUTO TUNE CF Step: 2.497000000 GHz Freq Offset: 0 Hz X Axis Scale: Log Marker Table: <table><thead><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.443 3 GHz</td><td>-0.6264 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.724 7 GHz</td><td>-29.62 dBm</td><td></td><td></td></tr></tbody></table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	2.443 3 GHz	-0.6264 dBm			2	N	1	f	24.724 7 GHz	-29.62 dBm		
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																		
1	N	1	f	2.443 3 GHz	-0.6264 dBm																				
2	N	1	f	24.724 7 GHz	-29.62 dBm																				

Mode 2: IEEE 802.11b Continuous TX mode_ANT-3

2412 MHz



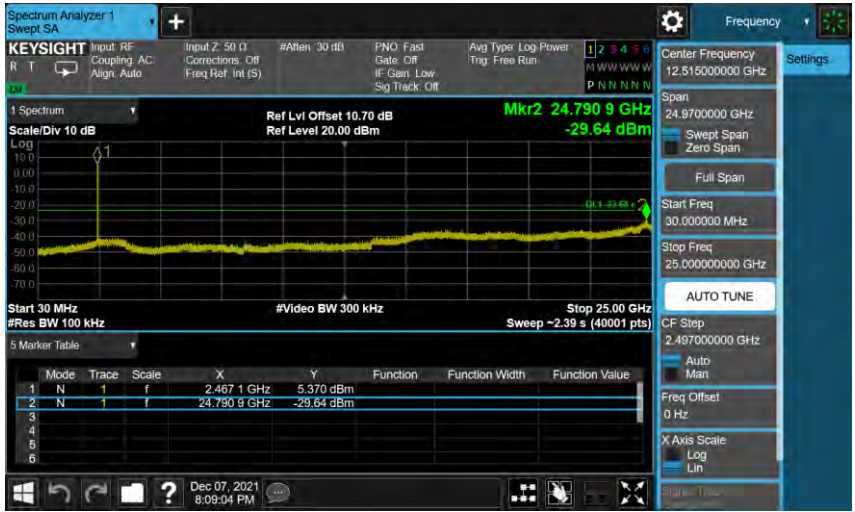
2437 MHz



2462 MHz



Mode 3: IEEE 802.11g Continuous TX mode_ANT-3

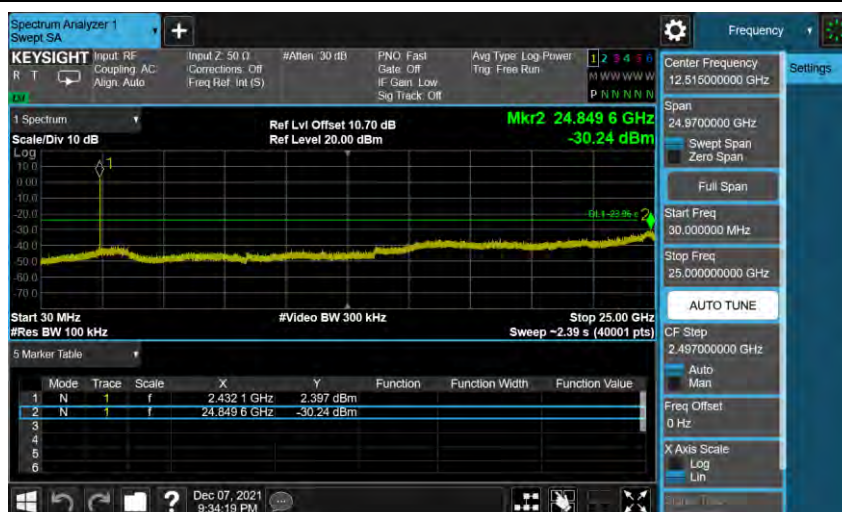
2412 MHz	 Center Frequency: 12.51500000 GHz Span: 24.9700000 GHz Start Freq: 30.000000 MHz Stop Freq: 25.00000000 GHz AUTO TUNE CF Step: 2.49700000 GHz Freq Offset: 0 Hz X Axis Scale: Log Marker Table: <table><thead><tr><th>Mode</th><th>Trace</th><th>Scale</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4071 GHz</td><td>6.600 dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.7934 GHz</td><td>-30.26 dBm</td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	2.4071 GHz	6.600 dBm			2	N	1	f	24.7934 GHz	-30.26 dBm			3								4								5								6							
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																																																		
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Mode	Trace	Scale	X	Y	Function	Function Width	Function Value																																																		
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Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-3

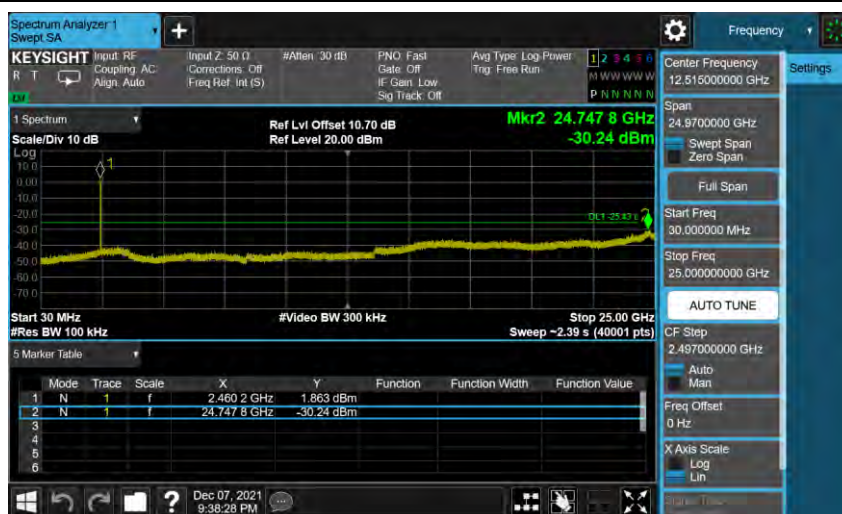
2412 MHz



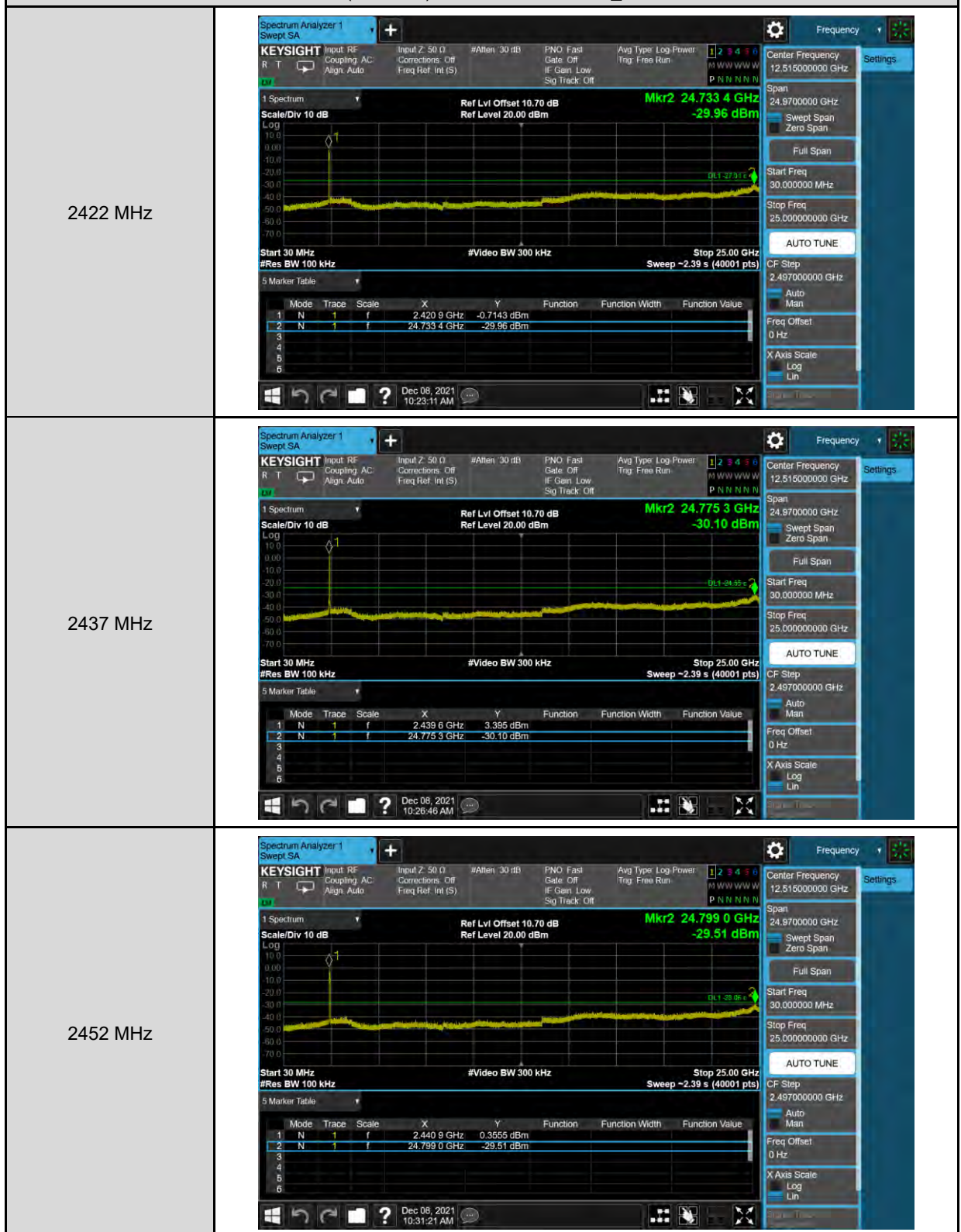
2437 MHz



2462 MHz



Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-3



Conducted Band Edge

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

2412 MHz

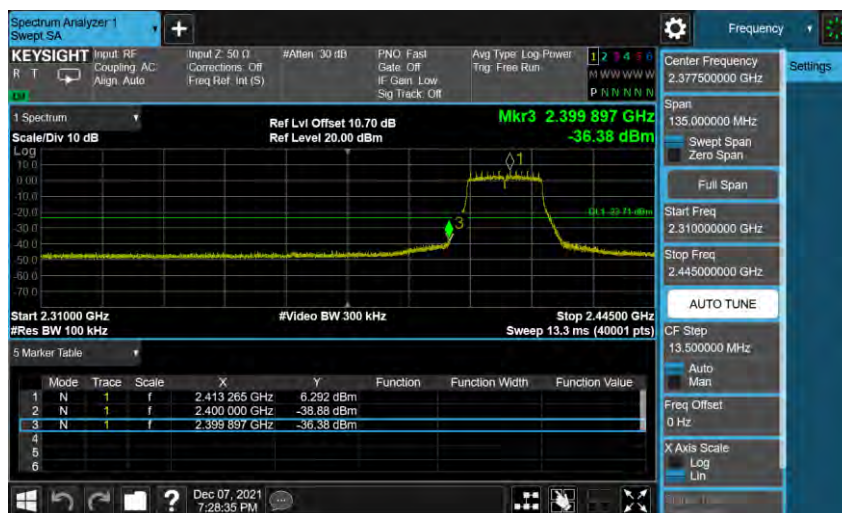


2462 MHz

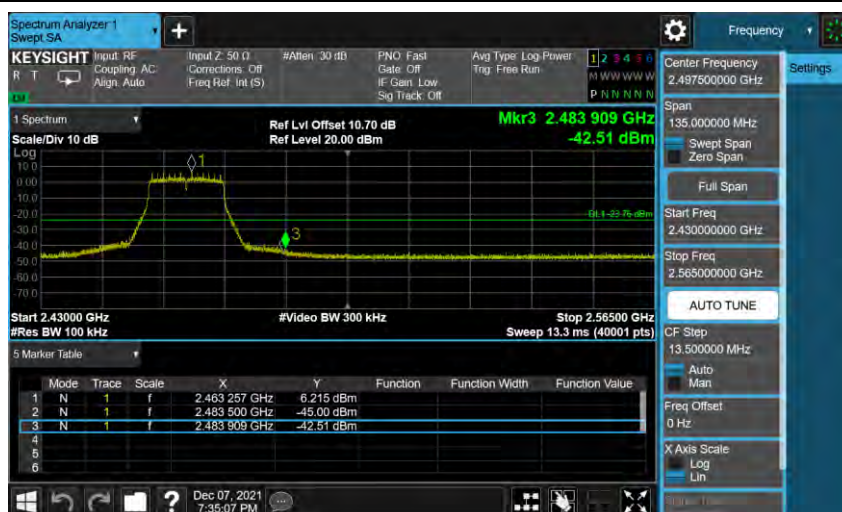


Mode 3: IEEE 802.11g Continuous TX mode_ANT-0

2412 MHz



2462 MHz



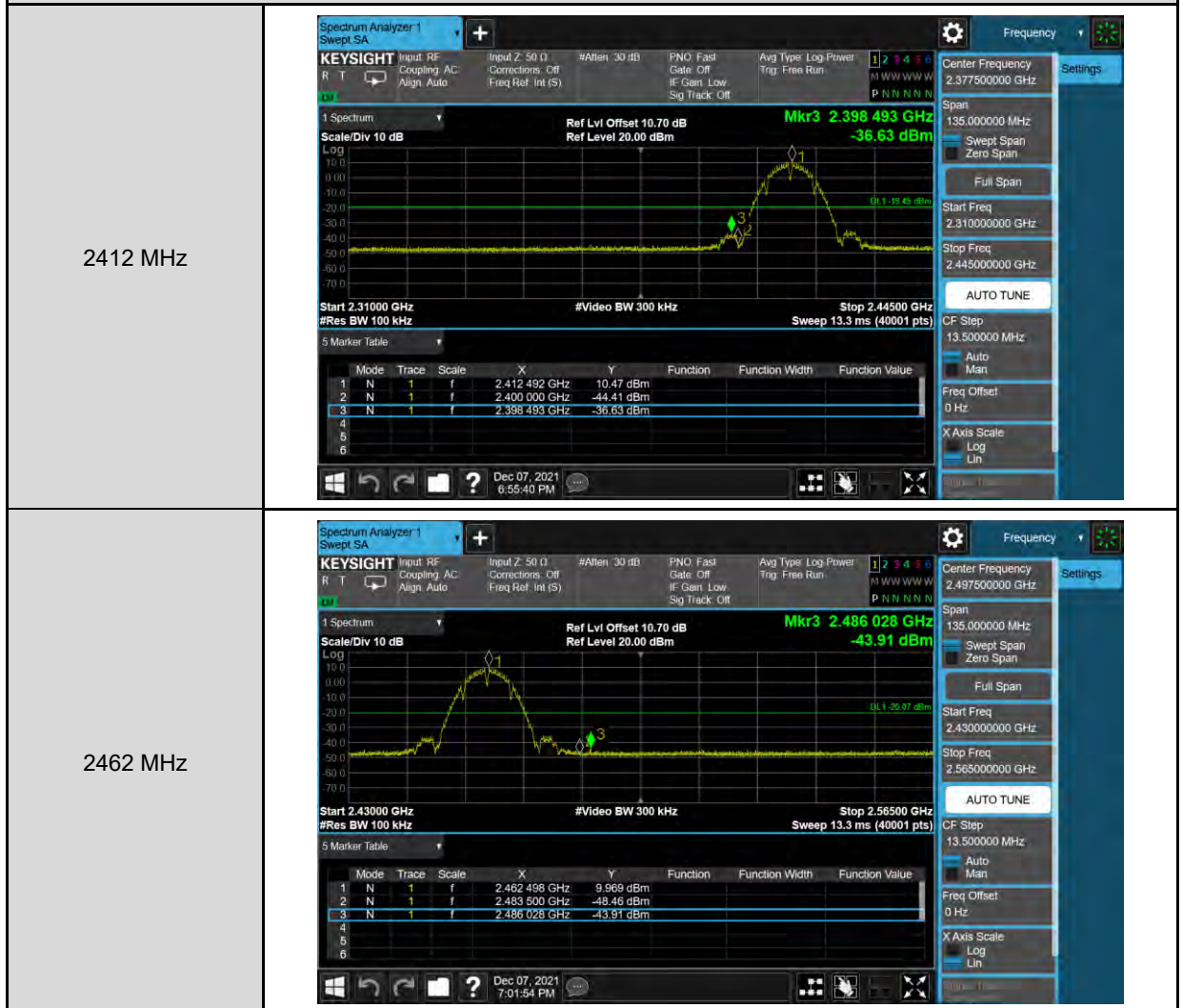
Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-0



Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-0

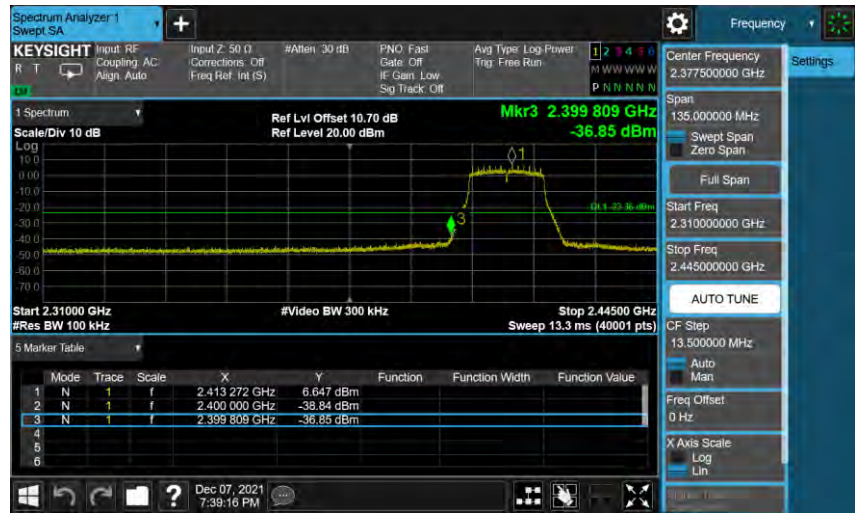


Mode 2: IEEE 802.11b Continuous TX mode_ANT-1



Mode 3: IEEE 802.11g Continuous TX mode_ANT-1

2412 MHz



2462 MHz



Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-1

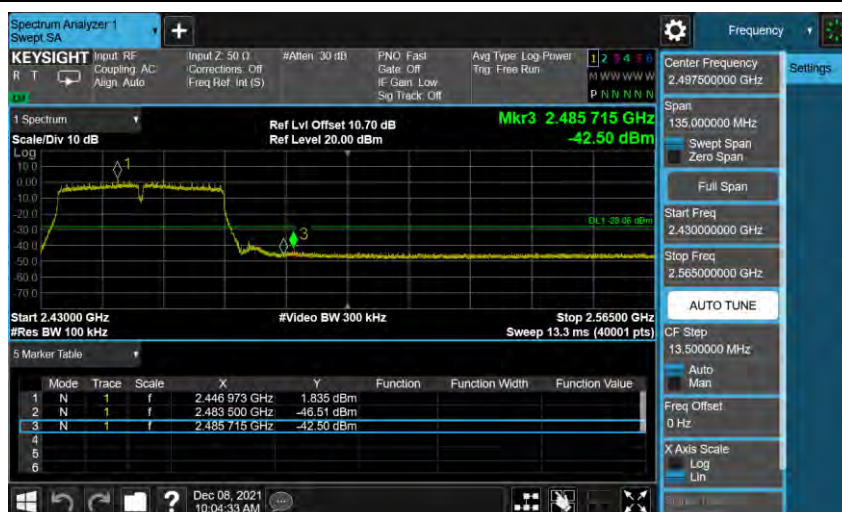


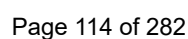
Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-1

2422 MHz



2452 MHz





Mode 3: IEEE 802.11g Continuous TX mode_ANT-2



Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-2

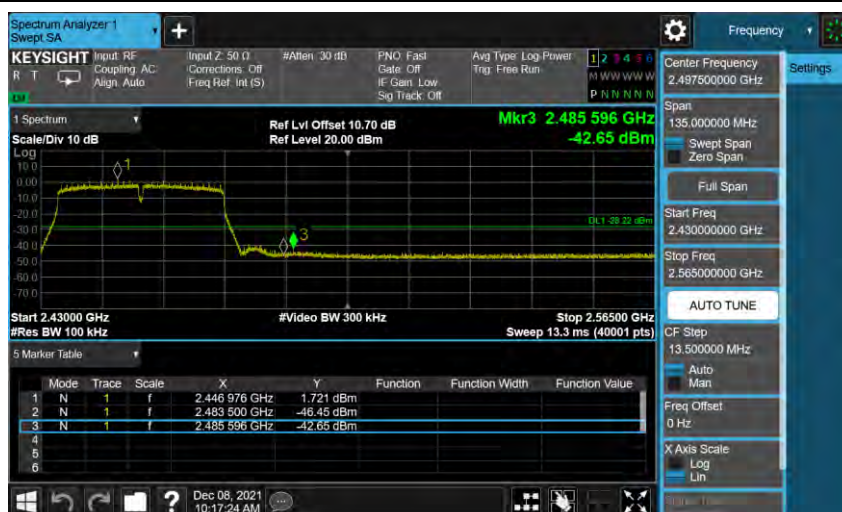


Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-2

2422 MHz



2452 MHz

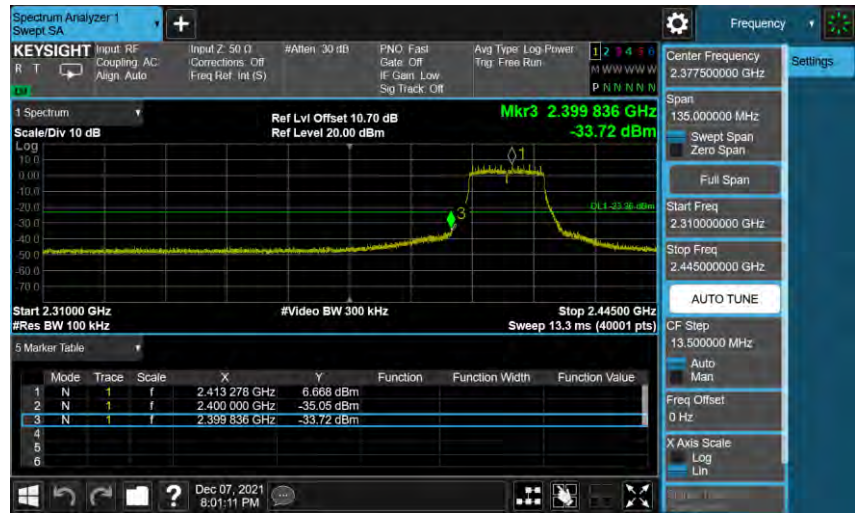


Mode 2: IEEE 802.11b Continuous TX mode_ANT-3



Mode 3: IEEE 802.11g Continuous TX mode_ANT-3

2412 MHz

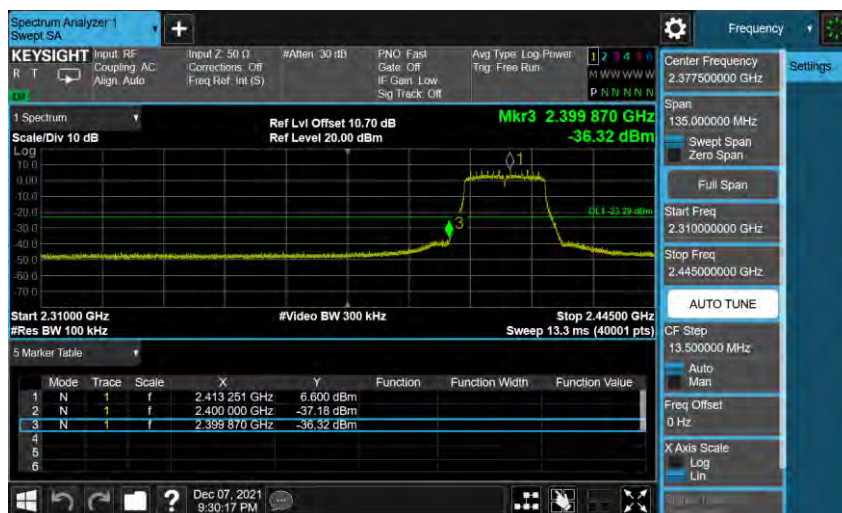


2462 MHz

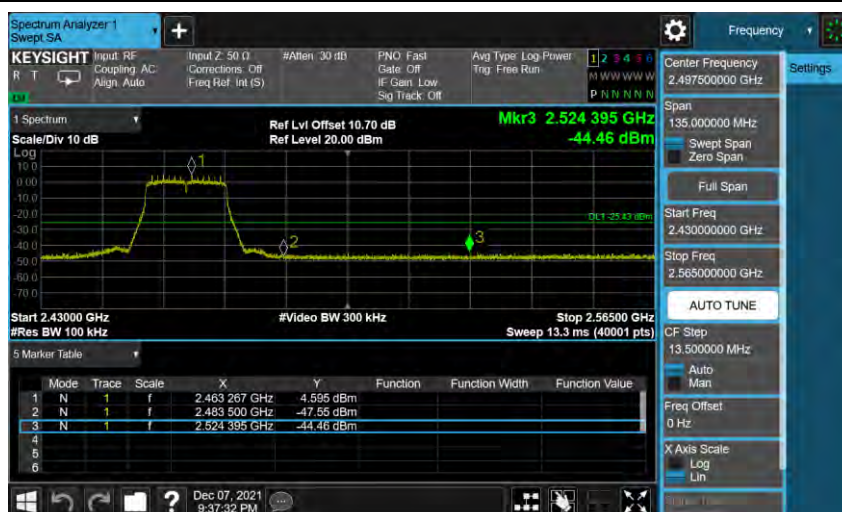


Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-3

2412 MHz



2462 MHz

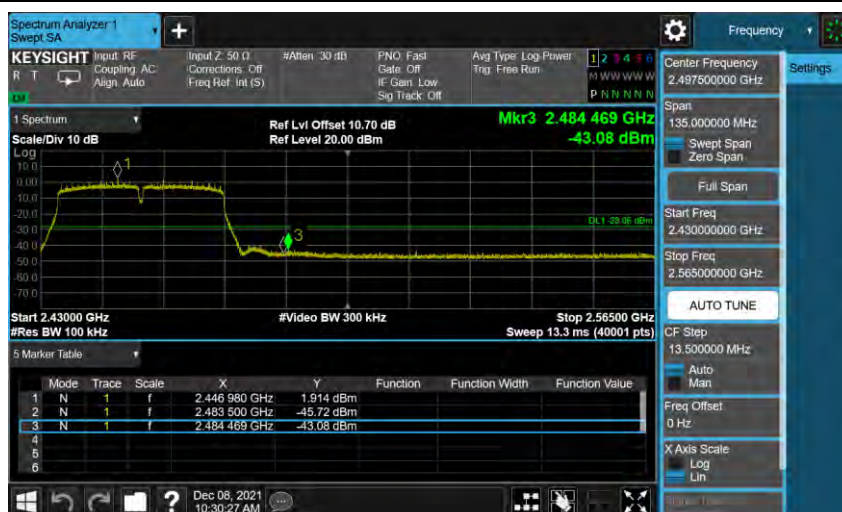


Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-3

2422 MHz



2452 MHz



Beamforming on

Maximum Conducted Output Power Measurement

Test Mode	Frequency (MHz)	RF Power setting in Test Software				Test Software Version
		ANT-0	ANT-1	ANT-2	ANT-3	
Mode 4	2412	10.5	10.5	10.5	10.5	QSPR Version 5.0-00188
	2437	10.0	10.0	10.0	10.0	
	2462	9.0	9.0	9.0	9.0	
Mode 5	2422	8.0	8.0	8.0	8.0	
	2437	10.5	10.5	10.5	10.5	
	2452	7.5	7.5	7.5	7.5	
Mode 6	2412	10.5	10.5	10.5	10.5	
	2437	10.0	10.0	10.0	10.0	
	2462	9.0	9.0	9.0	9.0	
Mode 7	2422	8.0	8.0	8.0	8.0	
	2437	10.5	10.5	10.5	10.5	
	2452	7.5	7.5	7.5	7.5	

Test Mode	Frequency (MHz)	Data Rate	Average Output Power										
			Measurement Results										Limit (dBm)
			ANT-0		ANT-1		ANT-2		ANT-3		ANT-0+1+2+3		
			(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
Mode 4	2412	26 M	9.44	0.009	9.67	0.009	9.77	0.009	9.64	0.009	15.65	0.037	≤ 26.88
	2437		8.75	0.007	8.88	0.008	9.01	0.008	9.01	0.008	14.93	0.031	≤ 26.88
	2462		8.03	0.006	8.12	0.006	8.17	0.007	7.97	0.006	14.09	0.026	≤ 26.88
Mode 5	2422	54 M	7.41	0.006	7.68	0.006	8.02	0.006	7.65	0.006	13.72	0.024	≤ 26.88
	2437		9.97	0.010	9.97	0.010	10.30	0.011	10.11	0.010	16.11	0.041	≤ 26.88
	2452		6.96	0.005	7.25	0.005	7.30	0.005	7.33	0.005	13.23	0.021	≤ 26.88
Mode 6	2412	26 M	9.48	0.009	9.68	0.009	9.83	0.010	9.72	0.009	15.70	0.037	≤ 26.88
	2437		8.85	0.008	8.91	0.008	9.10	0.008	9.02	0.008	14.99	0.032	≤ 26.88
	2462		8.11	0.006	8.19	0.007	8.25	0.007	8.09	0.006	14.18	0.026	≤ 26.88
Mode 7	2422	54 M	7.53	0.006	7.78	0.006	8.04	0.006	7.73	0.006	13.79	0.024	≤ 26.88
	2437		10.04	0.010	10.07	0.010	10.39	0.011	10.14	0.010	16.18	0.041	≤ 26.88
	2452		7.08	0.005	7.32	0.005	7.39	0.005	7.42	0.006	13.33	0.022	≤ 26.88

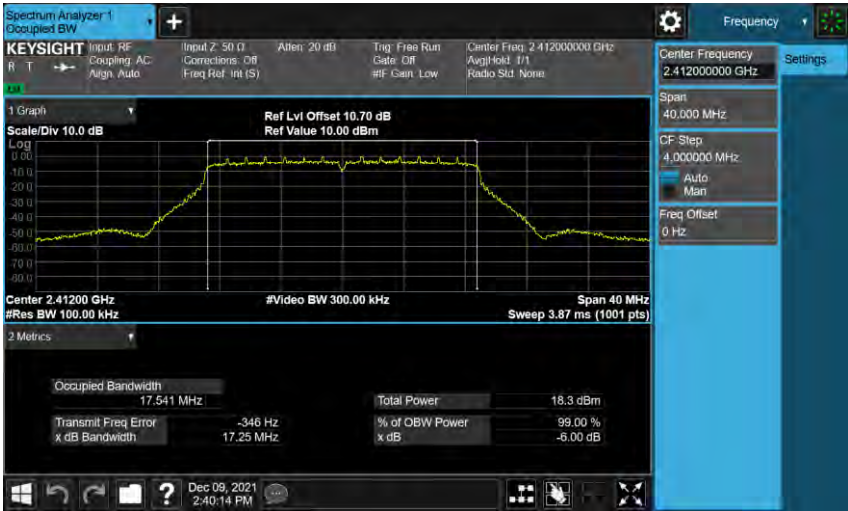
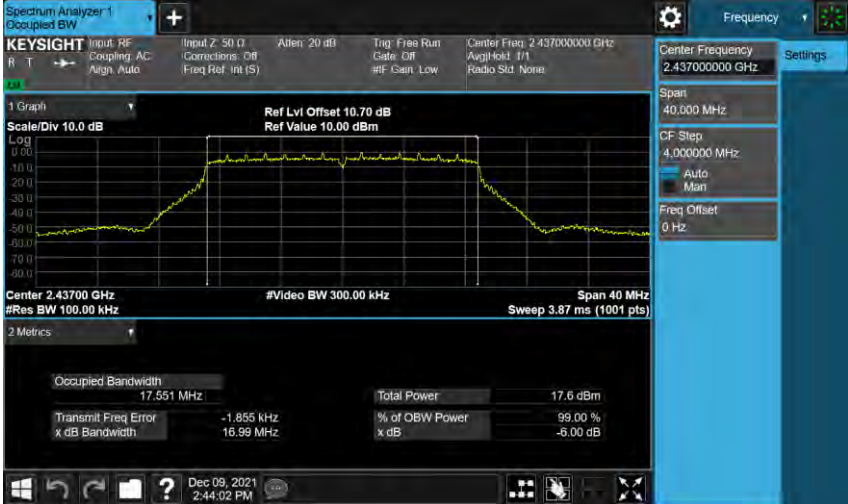
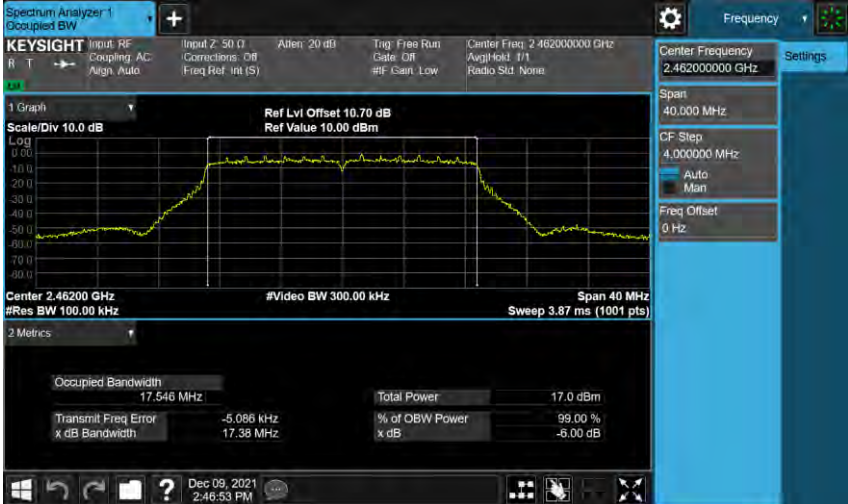
Note: The relevant measured result has the offset with cable loss already.

6 dB RF Bandwidth Measurement

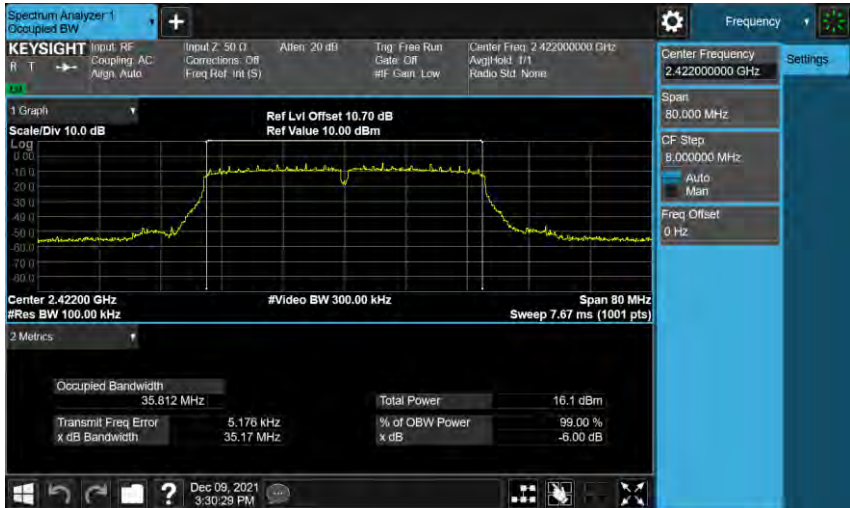
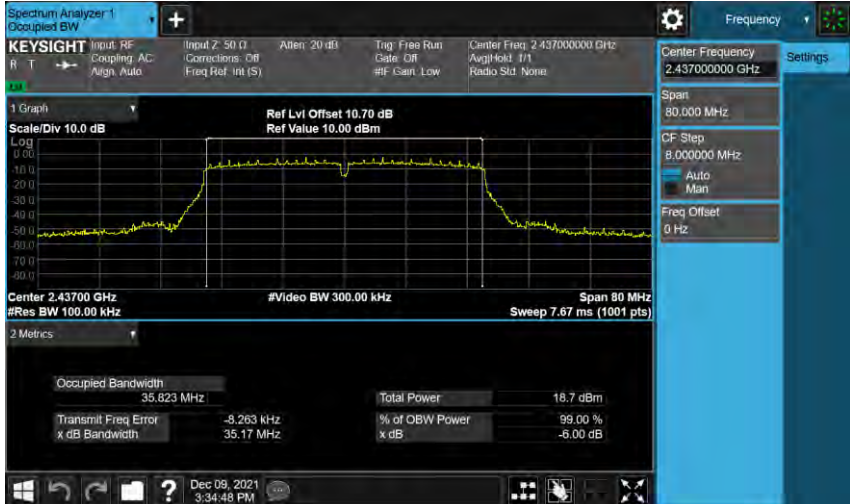
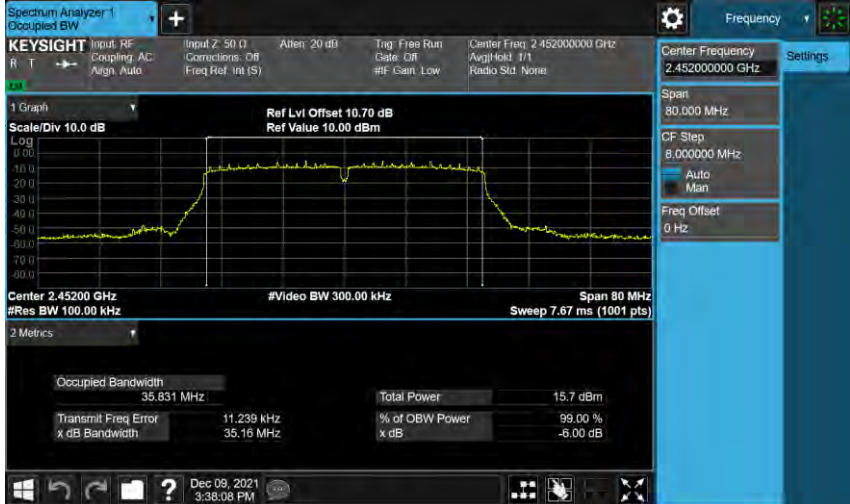
Test Mode	Frequency (MHz)	Measurement (kHz)				Limit (kHz)
		ANT-0	ANT-1	ANT-2	ANT-3	
Mode 6	2412	17250	16740	17130	17140	≥ 500
	2437	16990	16450	16980	17160	≥ 500
	2462	17380	16310	17130	17290	≥ 500
Mode 7	2422	35170	35230	35190	35150	≥ 500
	2437	35170	35180	35180	35150	≥ 500
	2452	35160	35160	35200	35170	≥ 500

Test Graphs

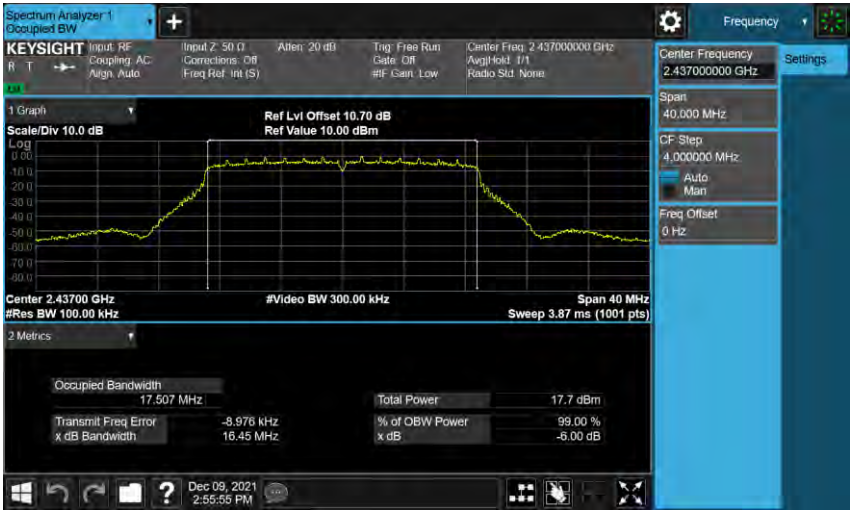
Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-0

2412 MHz	
2437 MHz	
2462 MHz	

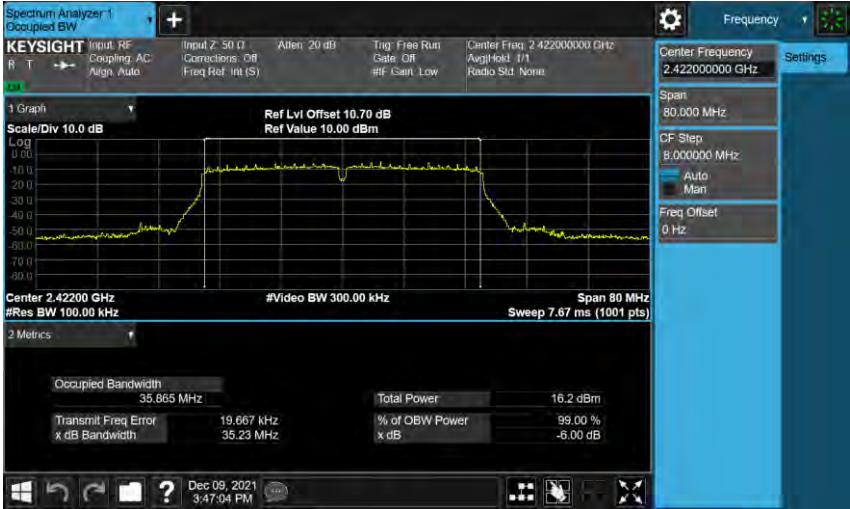
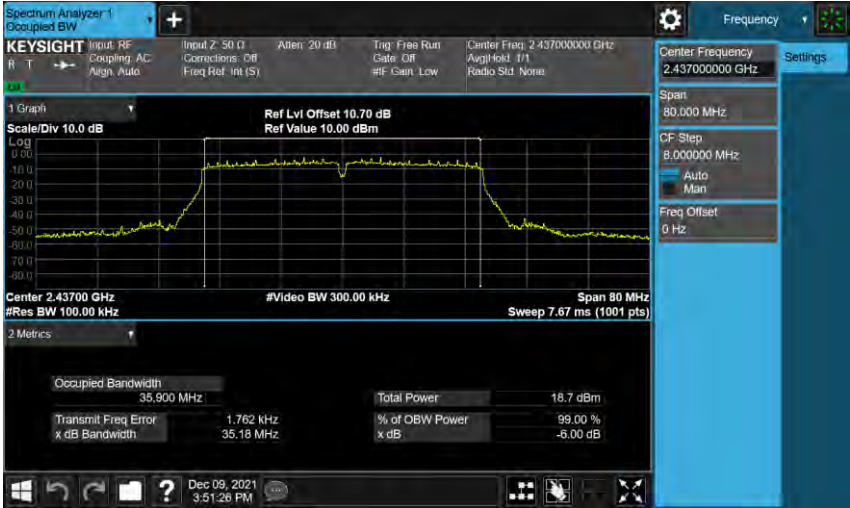
Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-0

2422 MHz	 Center 2.42200 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 80 MHz Sweep 7.67 ms (1001 pts) 2 Metrics <table><tr><td>Occupied Bandwidth</td><td>35.612 MHz</td><td>Total Power</td><td>16.1 dBm</td></tr><tr><td>Transmit Freq Error</td><td>5.176 kHz</td><td>% of OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>35.17 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table> Dec 09, 2021 3:30:29 PM	Occupied Bandwidth	35.612 MHz	Total Power	16.1 dBm	Transmit Freq Error	5.176 kHz	% of OBW Power	99.00 %	x dB Bandwidth	35.17 MHz	x dB	-6.00 dB
Occupied Bandwidth	35.612 MHz	Total Power	16.1 dBm										
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x dB Bandwidth	35.17 MHz	x dB	-6.00 dB										
2437 MHz	 Center 2.43700 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 80 MHz Sweep 7.67 ms (1001 pts) 2 Metrics <table><tr><td>Occupied Bandwidth</td><td>35.623 MHz</td><td>Total Power</td><td>16.7 dBm</td></tr><tr><td>Transmit Freq Error</td><td>-3.263 kHz</td><td>% of OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>35.17 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table> Dec 09, 2021 3:34:48 PM	Occupied Bandwidth	35.623 MHz	Total Power	16.7 dBm	Transmit Freq Error	-3.263 kHz	% of OBW Power	99.00 %	x dB Bandwidth	35.17 MHz	x dB	-6.00 dB
Occupied Bandwidth	35.623 MHz	Total Power	16.7 dBm										
Transmit Freq Error	-3.263 kHz	% of OBW Power	99.00 %										
x dB Bandwidth	35.17 MHz	x dB	-6.00 dB										
2452 MHz	 Center 2.45200 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 80 MHz Sweep 7.67 ms (1001 pts) 2 Metrics <table><tr><td>Occupied Bandwidth</td><td>35.631 MHz</td><td>Total Power</td><td>15.7 dBm</td></tr><tr><td>Transmit Freq Error</td><td>11.239 kHz</td><td>% of OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>35.16 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table> Dec 09, 2021 3:38:08 PM	Occupied Bandwidth	35.631 MHz	Total Power	15.7 dBm	Transmit Freq Error	11.239 kHz	% of OBW Power	99.00 %	x dB Bandwidth	35.16 MHz	x dB	-6.00 dB
Occupied Bandwidth	35.631 MHz	Total Power	15.7 dBm										
Transmit Freq Error	11.239 kHz	% of OBW Power	99.00 %										
x dB Bandwidth	35.16 MHz	x dB	-6.00 dB										

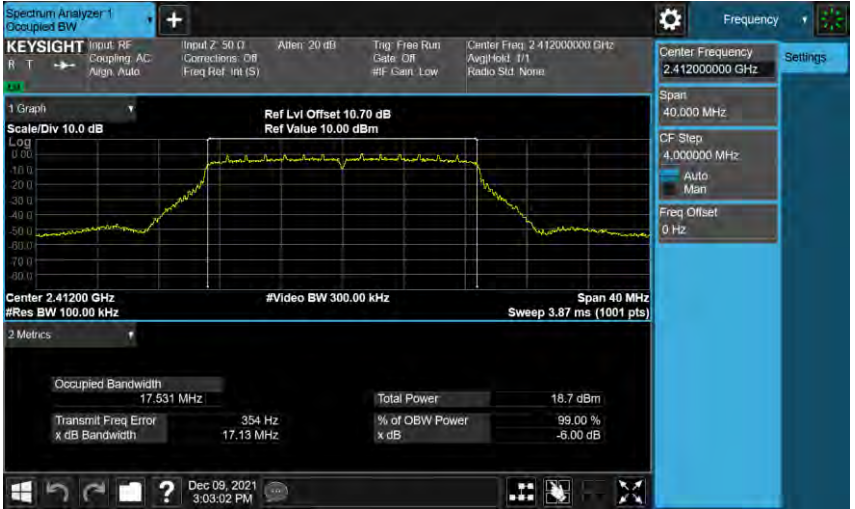
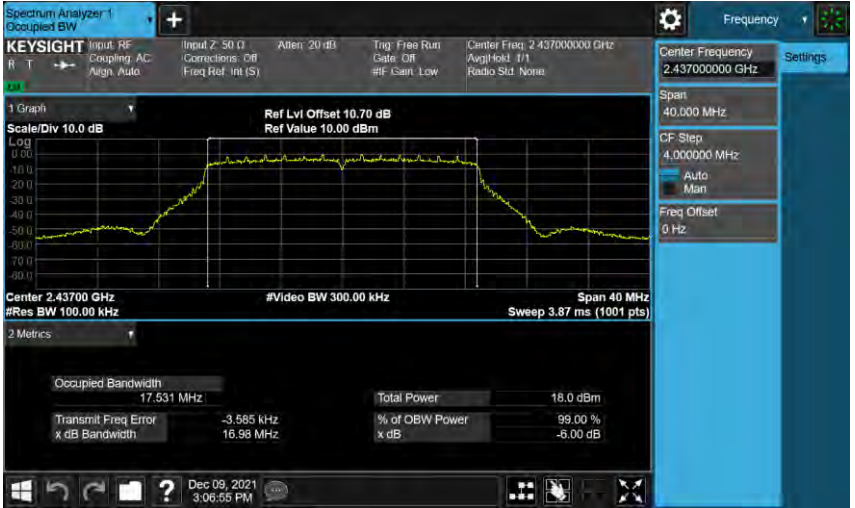
Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-1

2412 MHz	 Keysight Spectrum Analyzer 1 screenshot showing a signal at 2412.000 GHz. The graph displays a signal with a peak level of approximately 10.00 dBm. The settings include: Center Freq: 2.41200000 GHz, Span: 40.000 MHz, Res BW: 100.00 kHz, Video BW: 300.00 kHz, Sweep: 3.87 ms (1001 pts). The metrics show: Occupied Bandwidth: 17.508 MHz, Total Power: 18.5 dBm, Transmit Freq Error: -6.301 kHz, and % of OBW Power: 99.00 %.
2437 MHz	 Keysight Spectrum Analyzer 1 screenshot showing a signal at 2437.000 GHz. The graph displays a signal with a peak level of approximately 10.00 dBm. The settings include: Center Freq: 2.43700000 GHz, Span: 40.000 MHz, Res BW: 100.00 kHz, Video BW: 300.00 kHz, Sweep: 3.87 ms (1001 pts). The metrics show: Occupied Bandwidth: 17.507 MHz, Total Power: 17.7 dBm, Transmit Freq Error: -8.976 kHz, and % of OBW Power: 99.00 %.
2462 MHz	 Keysight Spectrum Analyzer 1 screenshot showing a signal at 2462.000 GHz. The graph displays a signal with a peak level of approximately 10.00 dBm. The settings include: Center Freq: 2.46200000 GHz, Span: 40.000 MHz, Res BW: 100.00 kHz, Video BW: 300.00 kHz, Sweep: 3.87 ms (1001 pts). The metrics show: Occupied Bandwidth: 17.484 MHz, Total Power: 17.3 dBm, Transmit Freq Error: -15.923 kHz, and % of OBW Power: 99.00 %.

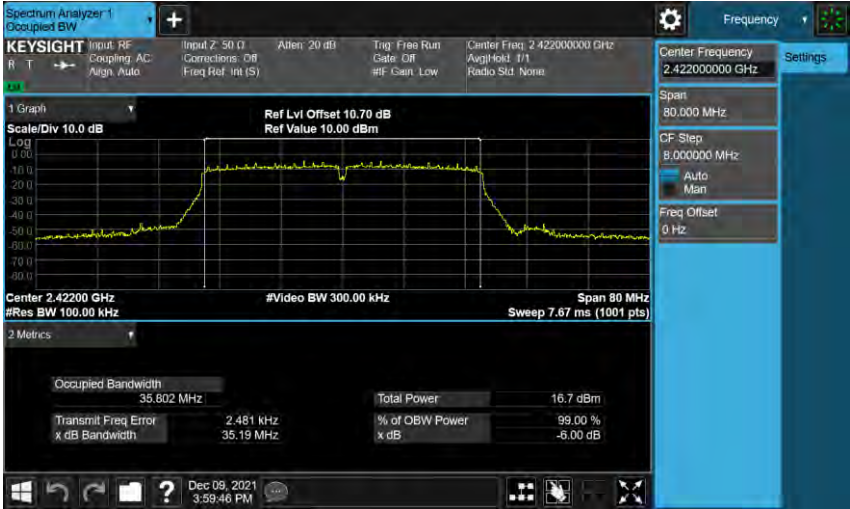
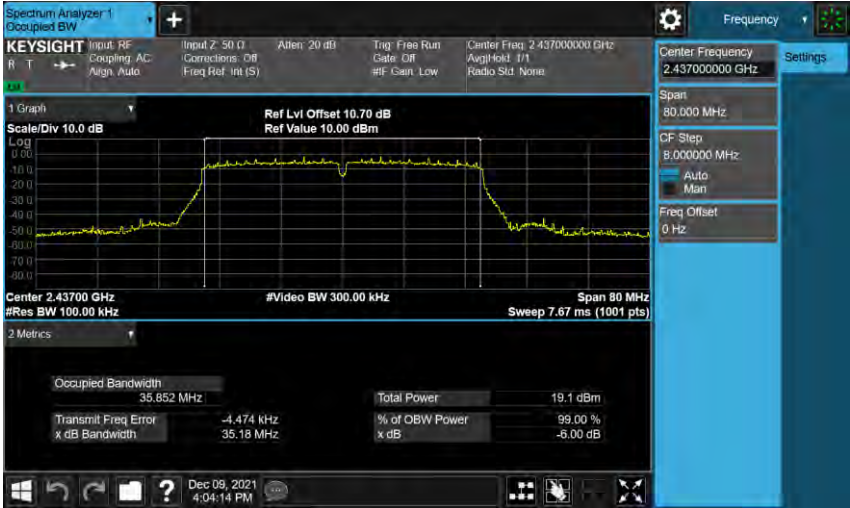
Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-1

2422 MHz	
2437 MHz	
2452 MHz	

Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-2

2412 MHz	
2437 MHz	
2462 MHz	

Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-2

2422 MHz	
2437 MHz	
2452 MHz	

Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-3

2412 MHz



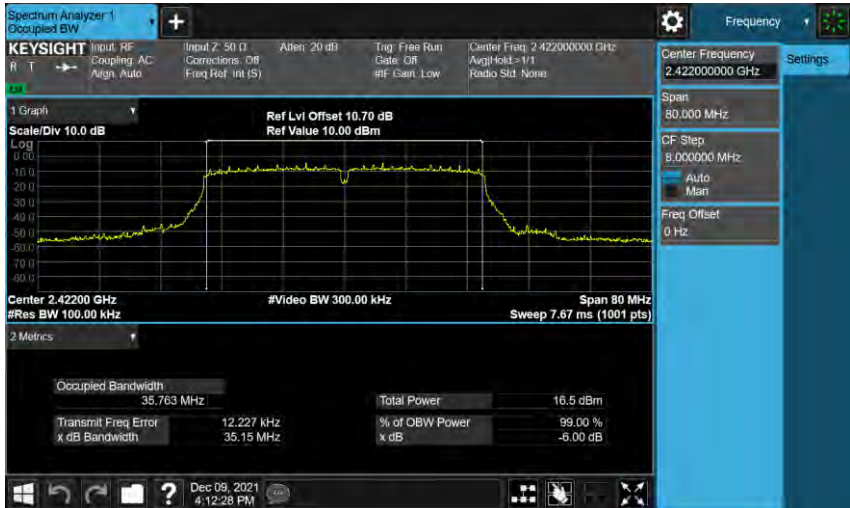
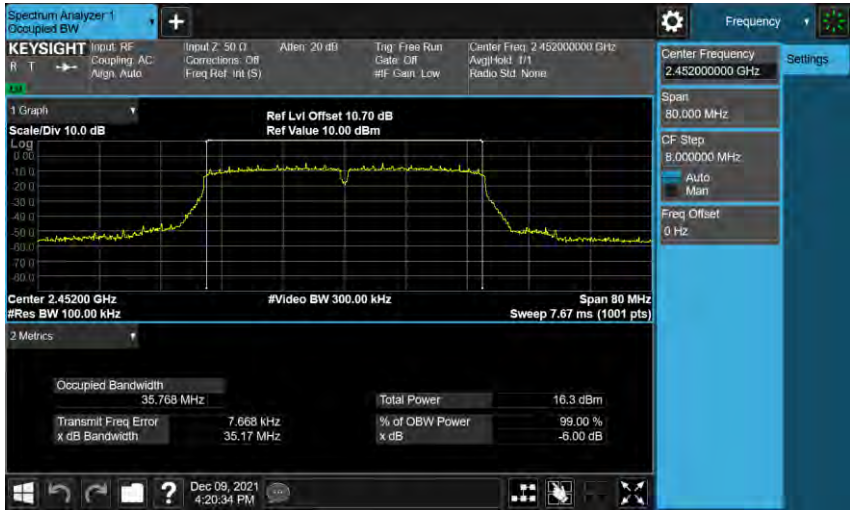
2437 MHz



2462 MHz



Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-3

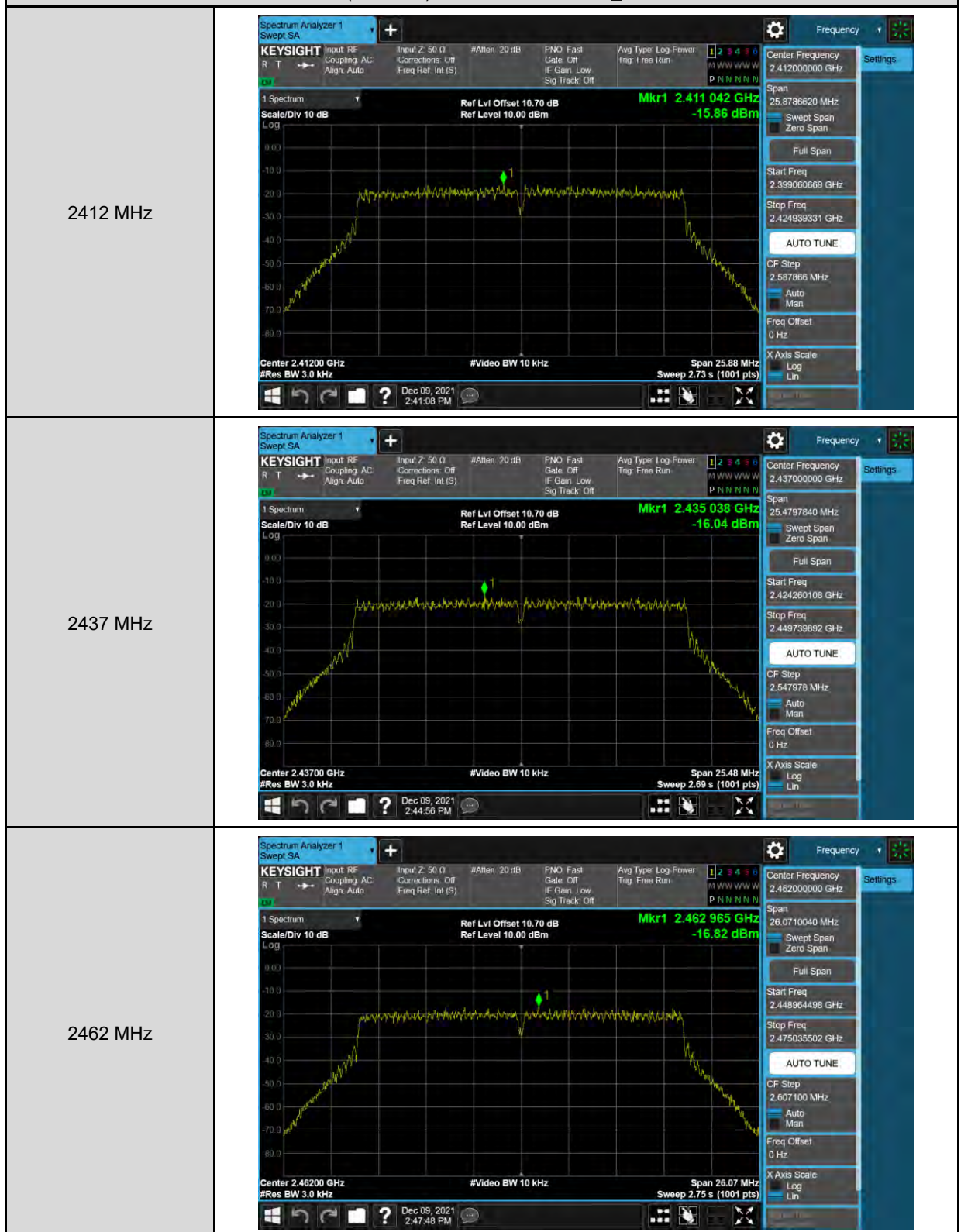
2422 MHz	 Center 2422.000 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 80 MHz Sweep 7.67 ms (1001 pts) 2 Metrics <table><tr><td>Occupied Bandwidth</td><td>35.763 MHz</td><td>Total Power</td><td>16.5 dBm</td></tr><tr><td>Transmit Freq Error</td><td>12.227 kHz</td><td>% of OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>35.15 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table> Dec 09, 2021 4:12:28 PM	Occupied Bandwidth	35.763 MHz	Total Power	16.5 dBm	Transmit Freq Error	12.227 kHz	% of OBW Power	99.00 %	x dB Bandwidth	35.15 MHz	x dB	-6.00 dB
Occupied Bandwidth	35.763 MHz	Total Power	16.5 dBm										
Transmit Freq Error	12.227 kHz	% of OBW Power	99.00 %										
x dB Bandwidth	35.15 MHz	x dB	-6.00 dB										
2437 MHz	 Center 2437.000 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 80 MHz Sweep 7.67 ms (1001 pts) 2 Metrics <table><tr><td>Occupied Bandwidth</td><td>35.753 MHz</td><td>Total Power</td><td>16.9 dBm</td></tr><tr><td>Transmit Freq Error</td><td>13.554 kHz</td><td>% of OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>35.15 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table> Dec 09, 2021 4:16:55 PM	Occupied Bandwidth	35.753 MHz	Total Power	16.9 dBm	Transmit Freq Error	13.554 kHz	% of OBW Power	99.00 %	x dB Bandwidth	35.15 MHz	x dB	-6.00 dB
Occupied Bandwidth	35.753 MHz	Total Power	16.9 dBm										
Transmit Freq Error	13.554 kHz	% of OBW Power	99.00 %										
x dB Bandwidth	35.15 MHz	x dB	-6.00 dB										
2452 MHz	 Center 2452.000 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Span 80 MHz Sweep 7.67 ms (1001 pts) 2 Metrics <table><tr><td>Occupied Bandwidth</td><td>35.768 MHz</td><td>Total Power</td><td>16.3 dBm</td></tr><tr><td>Transmit Freq Error</td><td>7.668 kHz</td><td>% of OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>35.17 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table> Dec 09, 2021 4:20:34 PM	Occupied Bandwidth	35.768 MHz	Total Power	16.3 dBm	Transmit Freq Error	7.668 kHz	% of OBW Power	99.00 %	x dB Bandwidth	35.17 MHz	x dB	-6.00 dB
Occupied Bandwidth	35.768 MHz	Total Power	16.3 dBm										
Transmit Freq Error	7.668 kHz	% of OBW Power	99.00 %										
x dB Bandwidth	35.17 MHz	x dB	-6.00 dB										

Maximum Power Spectral Density Measurement

Test Mode	Frequency (MHz)	Measurement Results (dBm/3 kHz)					Limit (dBm/3 kHz)
		ANT-0	ANT-1	ANT-2	ANT-3	ANT-0+1+2+3	
Mode 6	2412	-15.860	-13.570	-14.450	-14.770	-8.566	≤ 4.88
	2437	-16.040	-15.930	-16.150	-15.970	-10.001	≤ 4.88
	2462	-16.820	-16.880	-17.090	-16.530	-10.805	≤ 4.88
Mode 7	2422	-19.740	-19.750	-20.150	-20.000	-13.886	≤ 4.88
	2437	-18.320	-16.830	-16.750	-17.270	-11.229	≤ 4.88
	2452	-19.840	-18.830	-19.630	-20.610	-13.661	≤ 4.88

■ Test Graphs

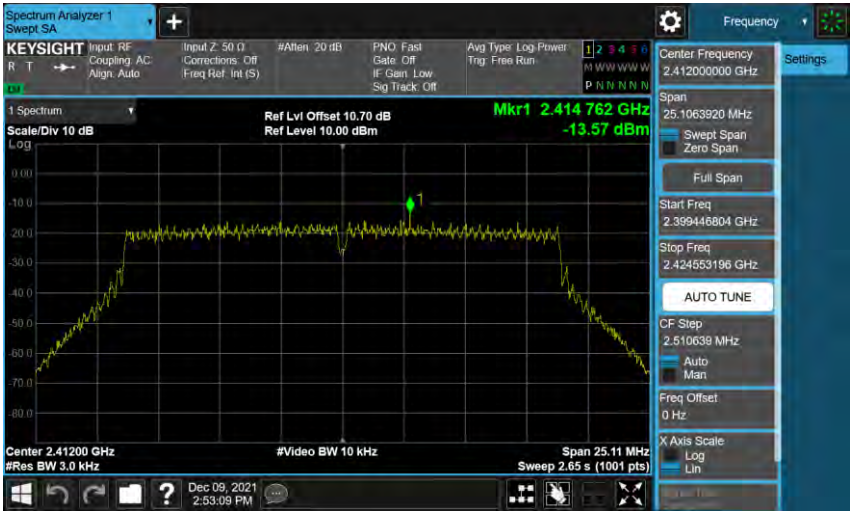
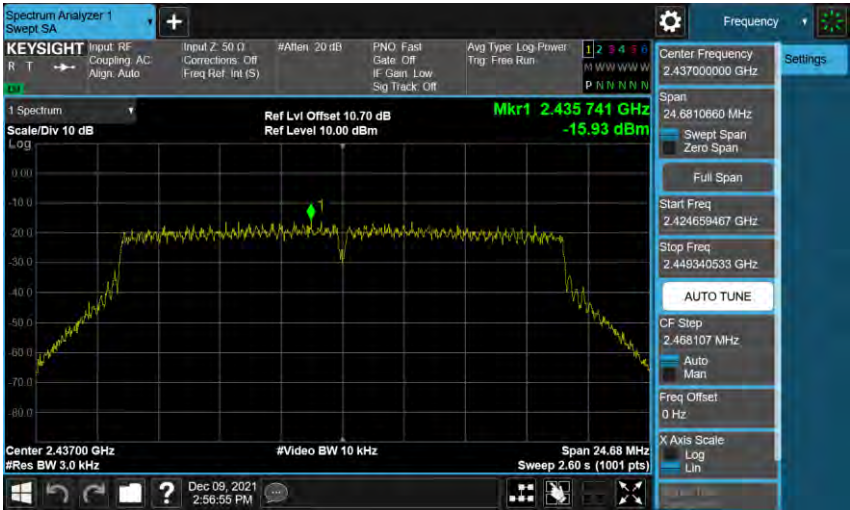
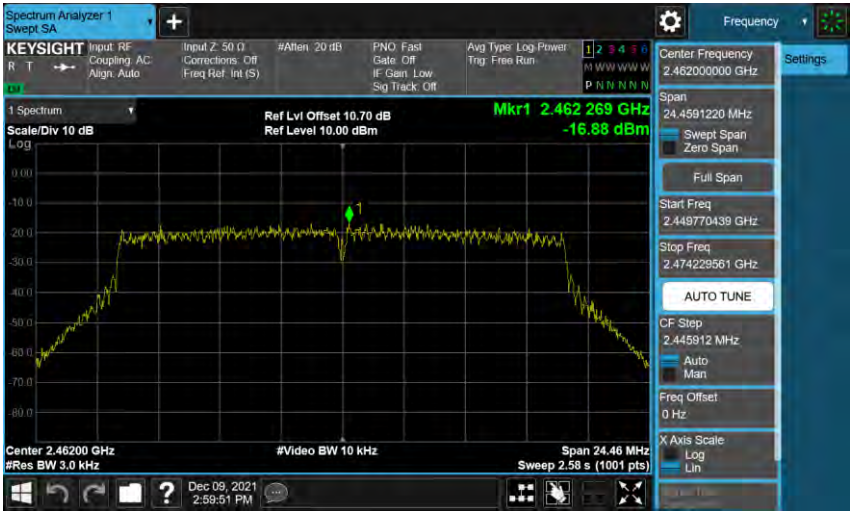
Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-0



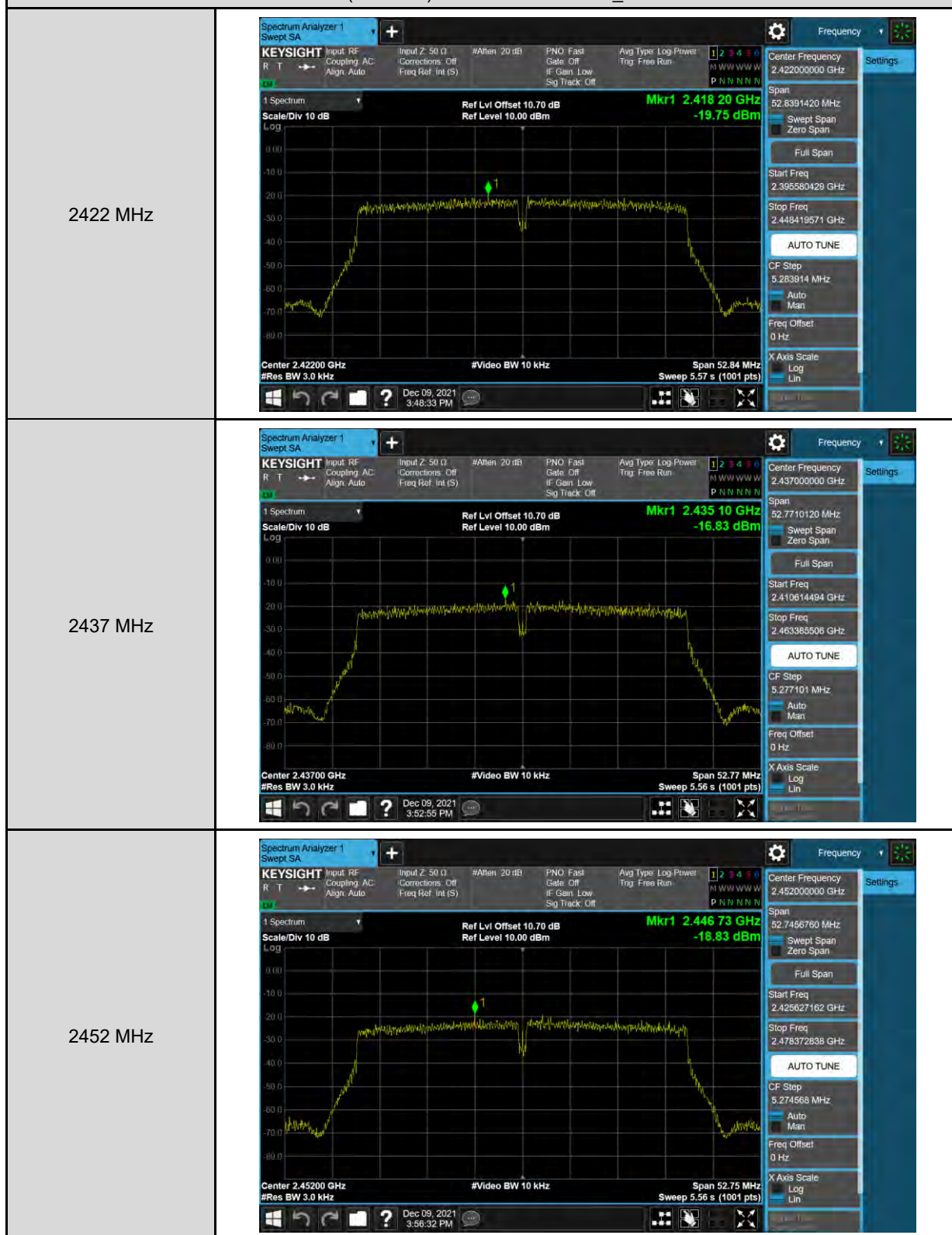
Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-0

2422 MHz	
2437 MHz	
2452 MHz	

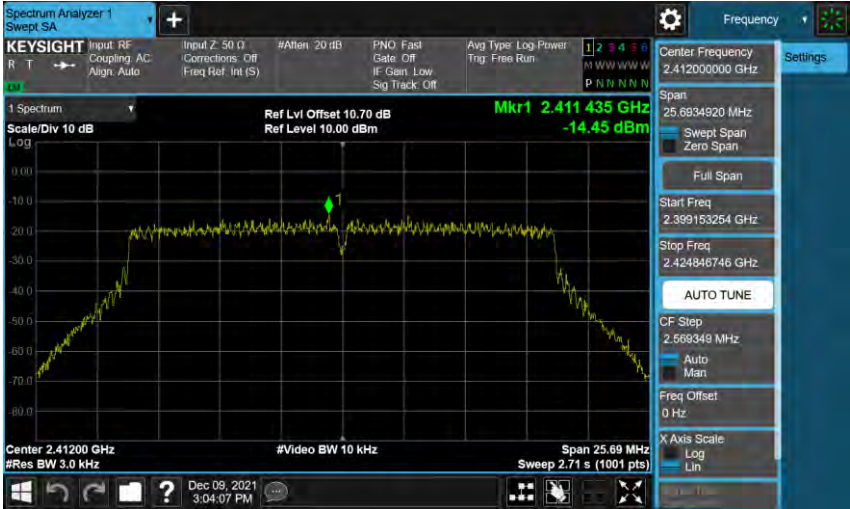
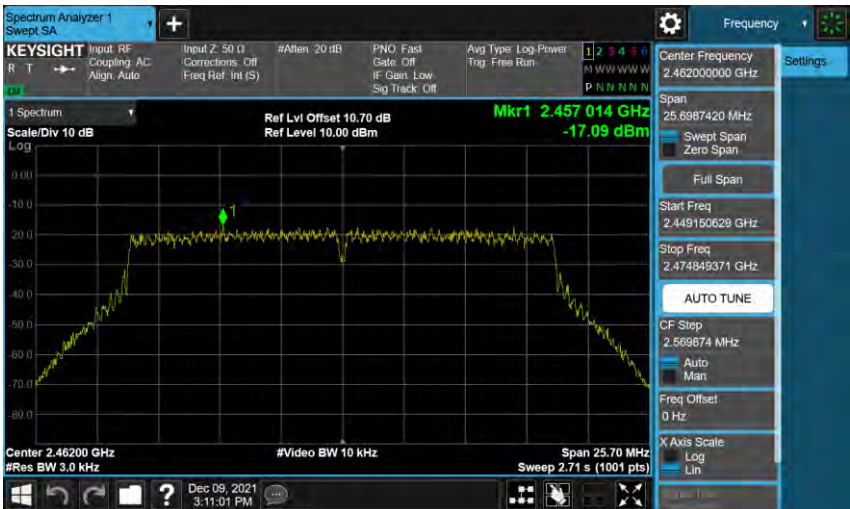
Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-1

2412 MHz	
2437 MHz	
2462 MHz	

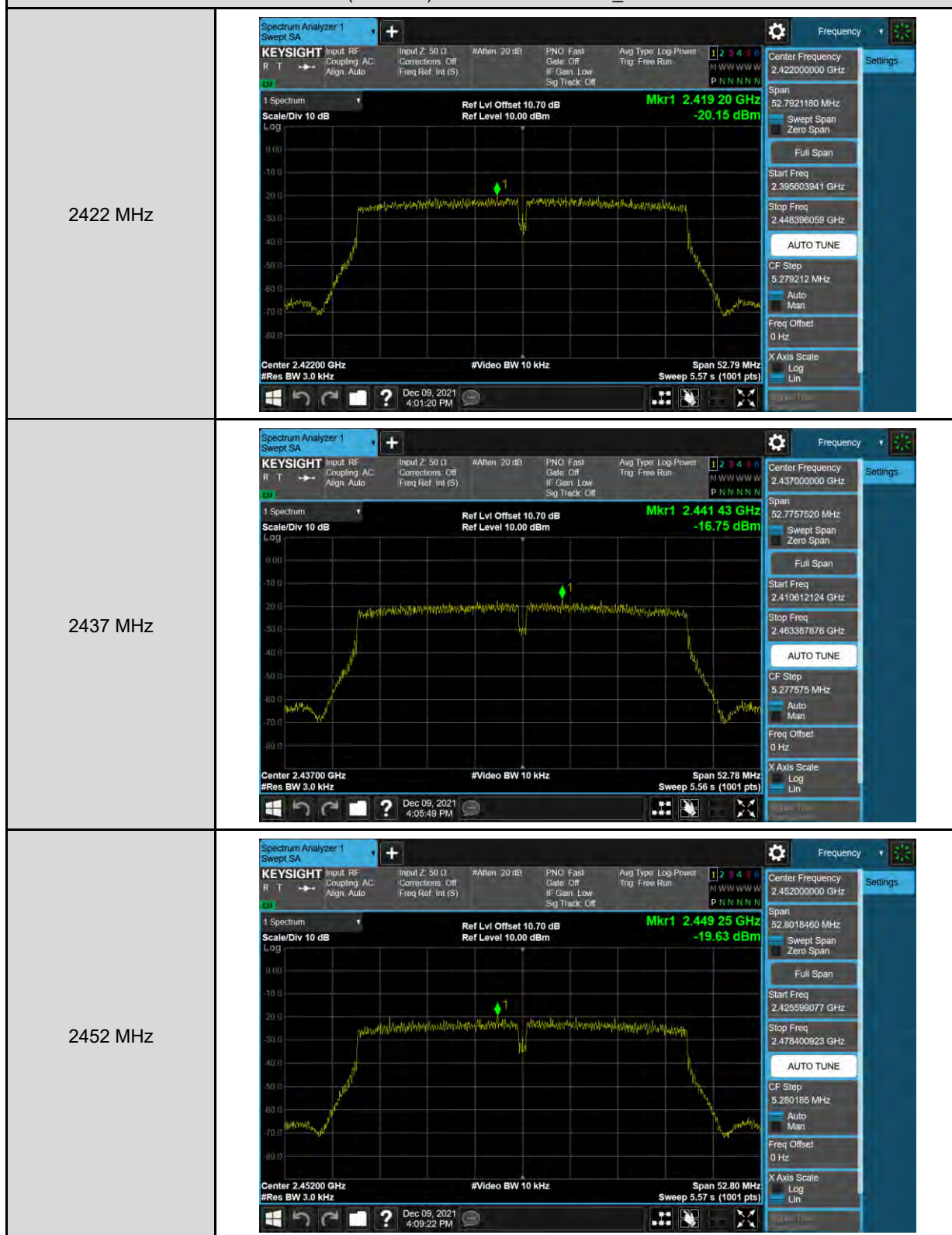
Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-1



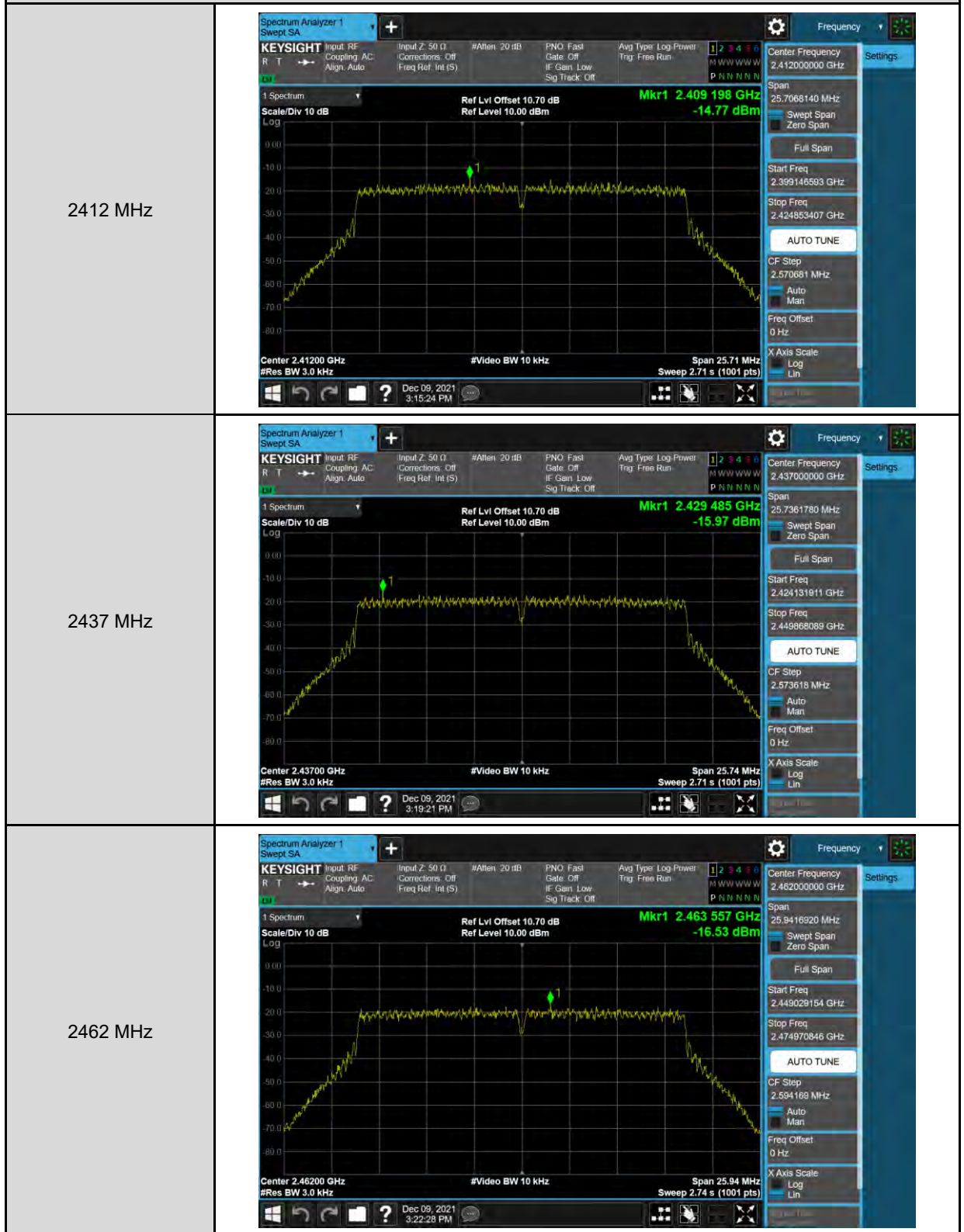
Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-2

2412 MHz	
2437 MHz	
2462 MHz	

Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-2



Mode 6: IEEE 802.11n 2.4 GHz 20 MHz(256QAM) Continuous TX mode_ANT-3



Mode 7: IEEE 802.11n 2.4 GHz 40 MHz(256QAM) Continuous TX mode_ANT-3

