

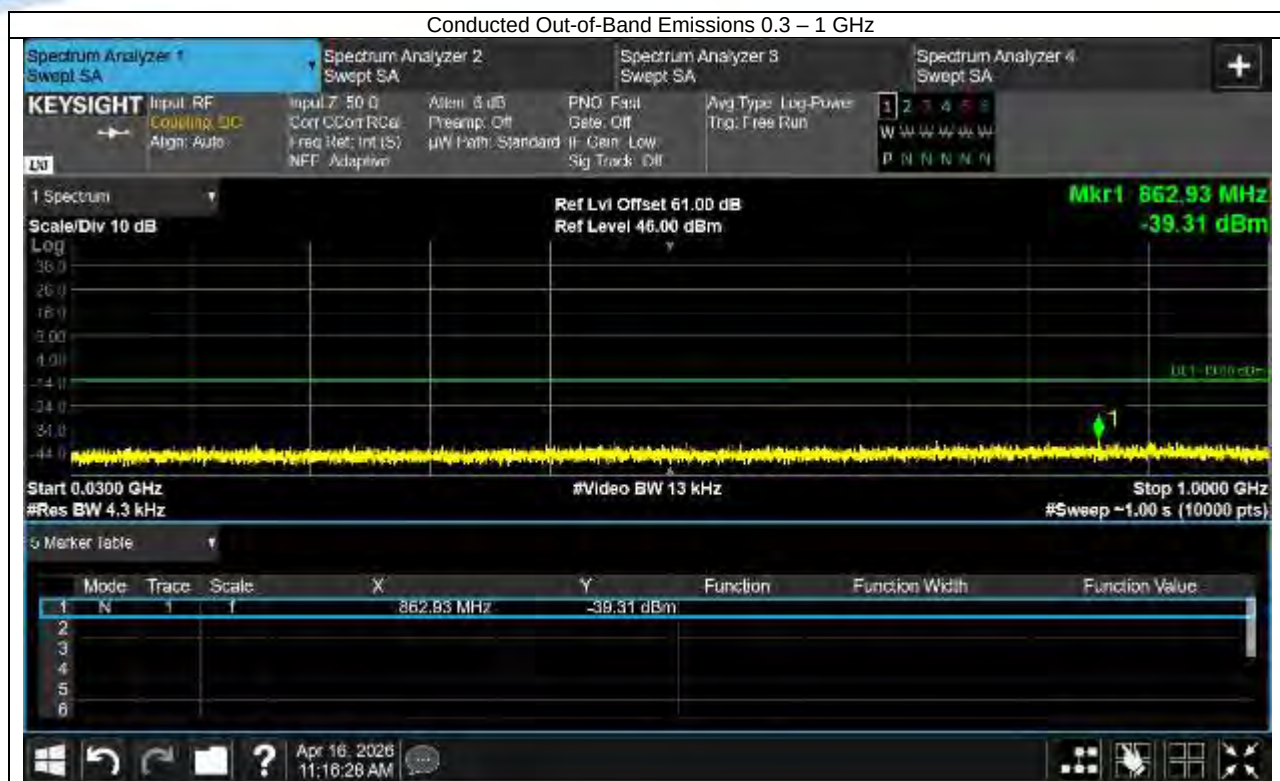
8.5.1.29. BPSK 7MHz Low Band Mid Channel

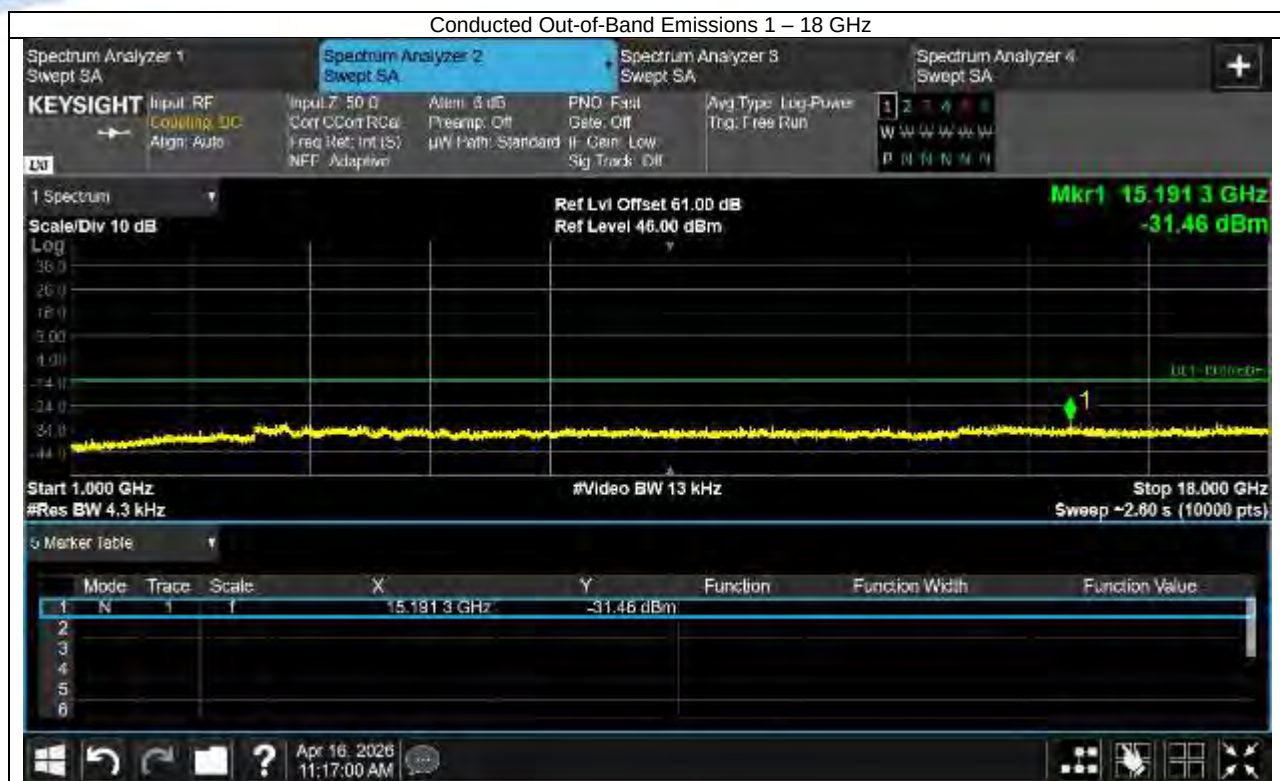
Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)			
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	BPSK	Tested By:	SB
Engineering Test Notes:			

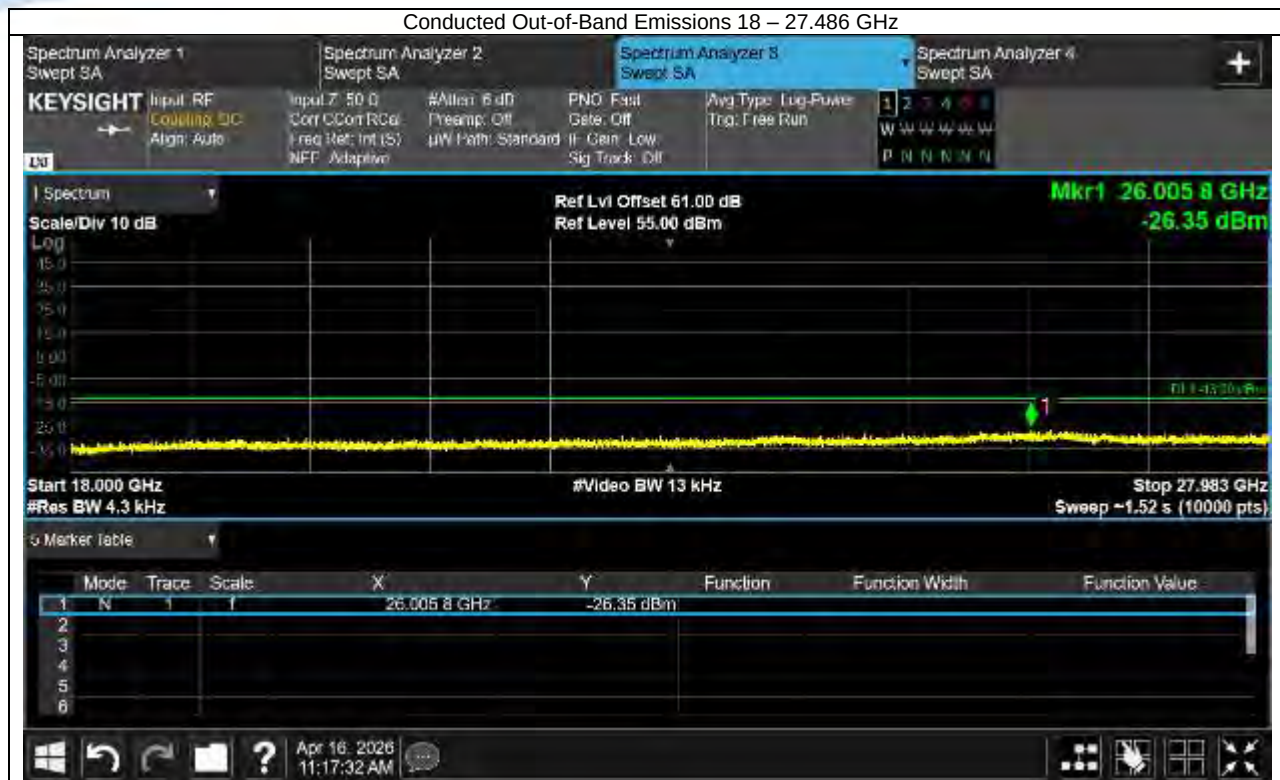
Test Measurement Results

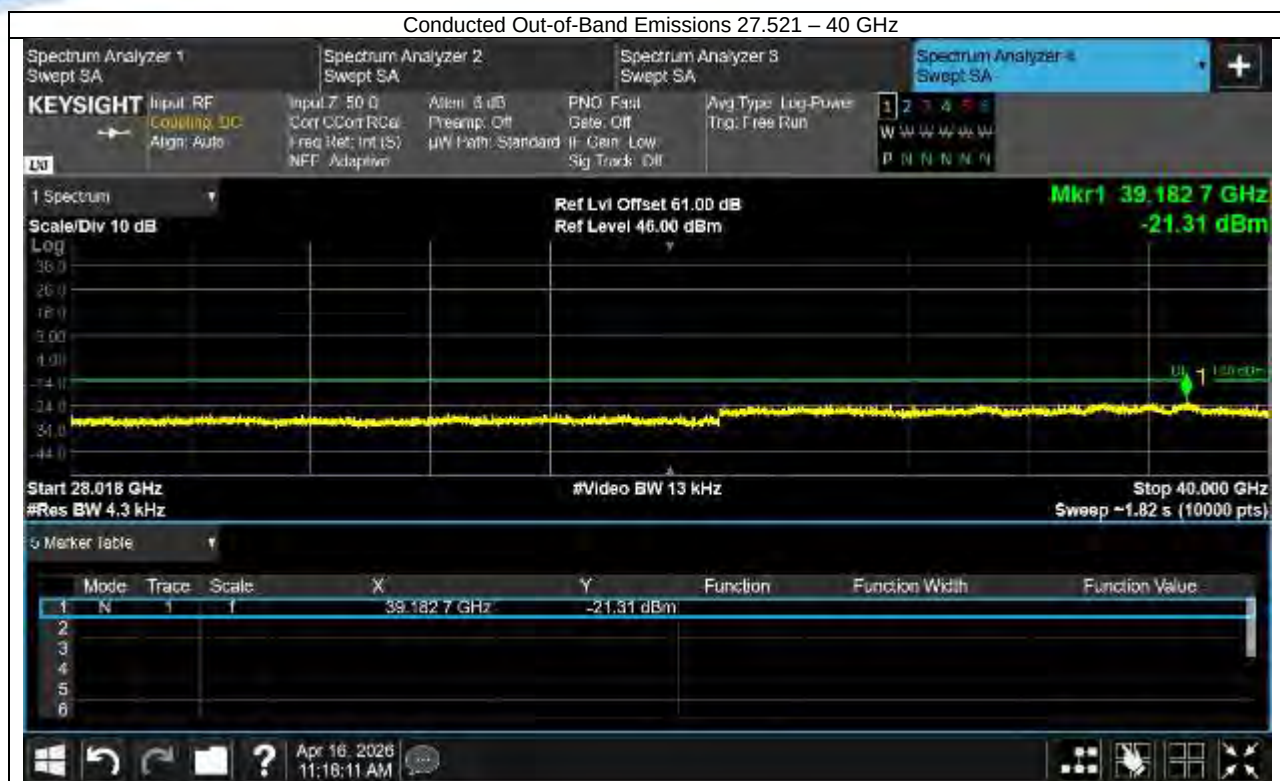
Temperature: 20 °C	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Voltage: 115 Vac, 60 Hz						
Test Frequency: 28000.00 MHz						
30MHz-1GHz	862.93	-39.31	--	-13.00	-26.31	Complies
1-18GHz	15191.30	-31.46	--	-13.00	-18.46	Complies
18-27.983GHz	26005.80	-26.35	--	-13.00	-13.35	Complies
28.018-40GHz	39182.70	-21.31	--	-13.00	-8.31	Complies
40-50GHz	49624.00	-50.13	--	-13.00	-37.13	Complies
50-75 GHz	56000.00	-52.22	-46.80	-13.00	-33.80	Complies
75-110GHz	82839.50	-63.32	--	-13.00	-50.32	Complies
110-140GHz	134714.15	-41.52	-28.47	-13.00	-15.47	Complies
140-150GHz	146577.05	-42.80	--	-13.00	-29.80	Complies

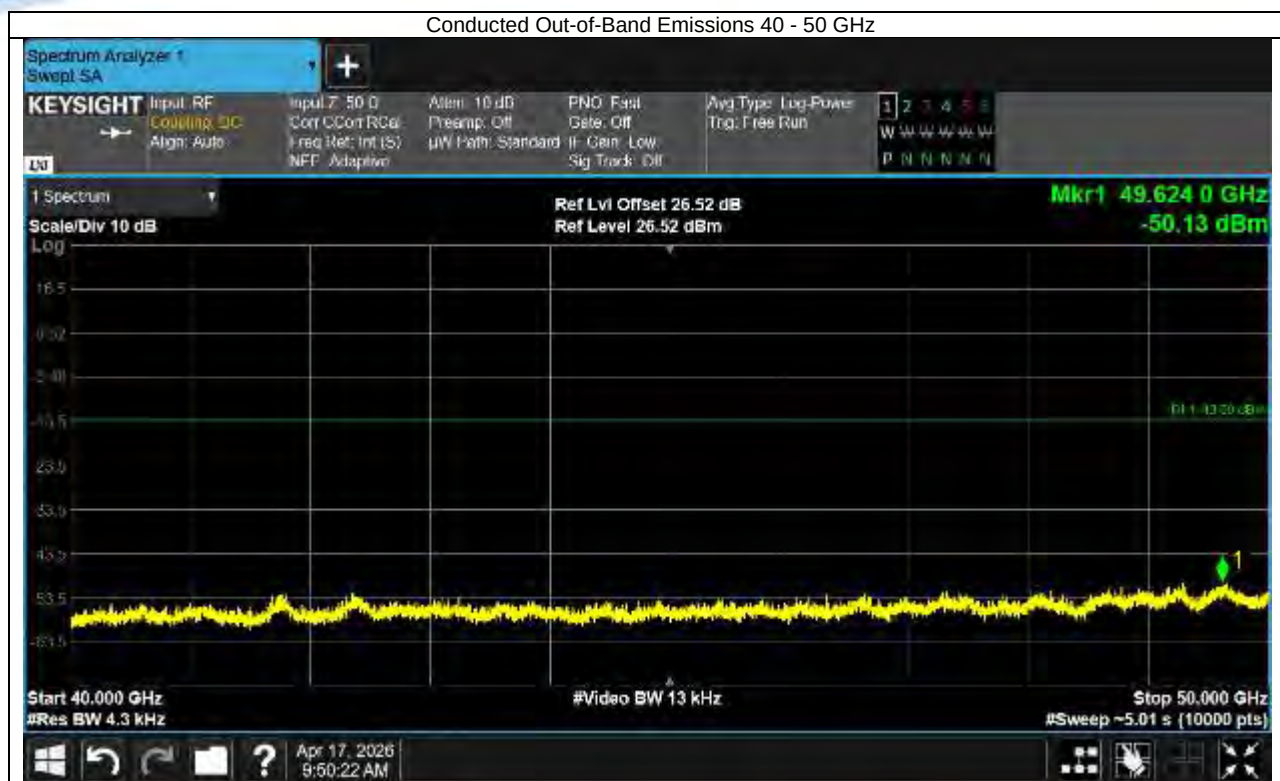
Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

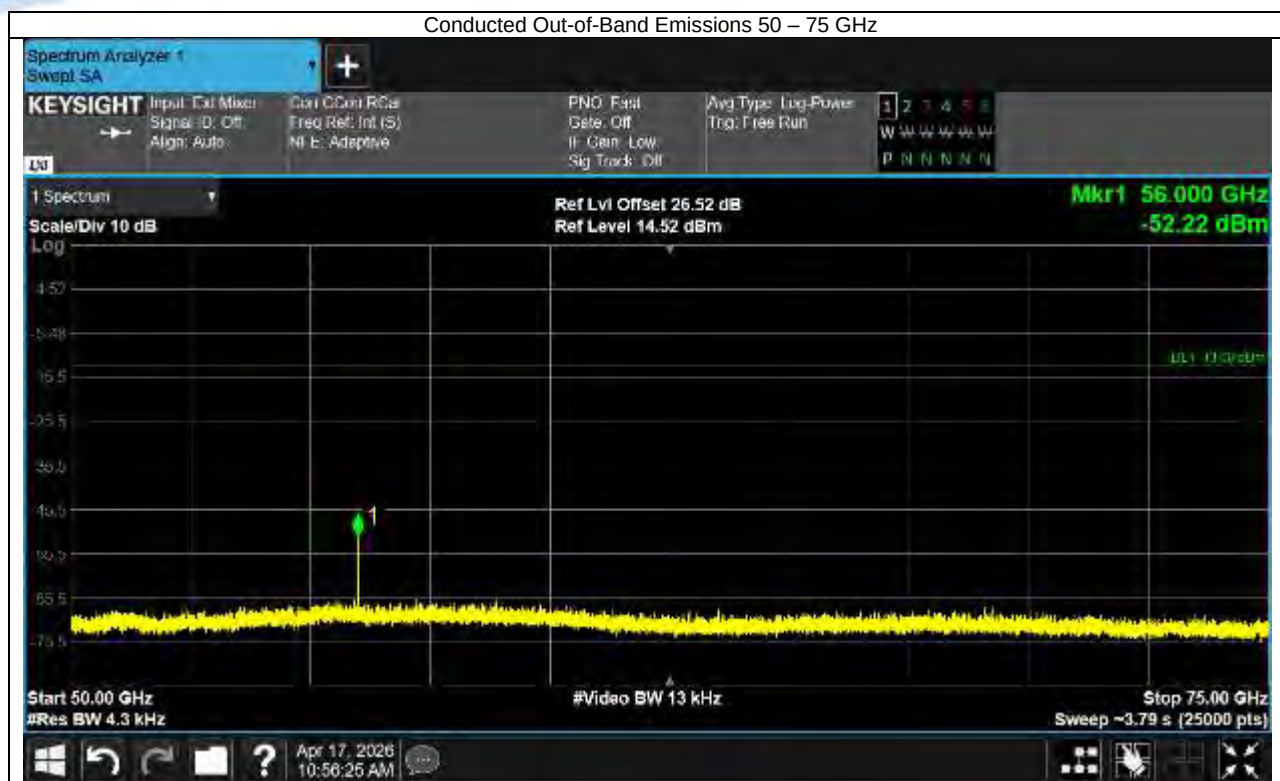


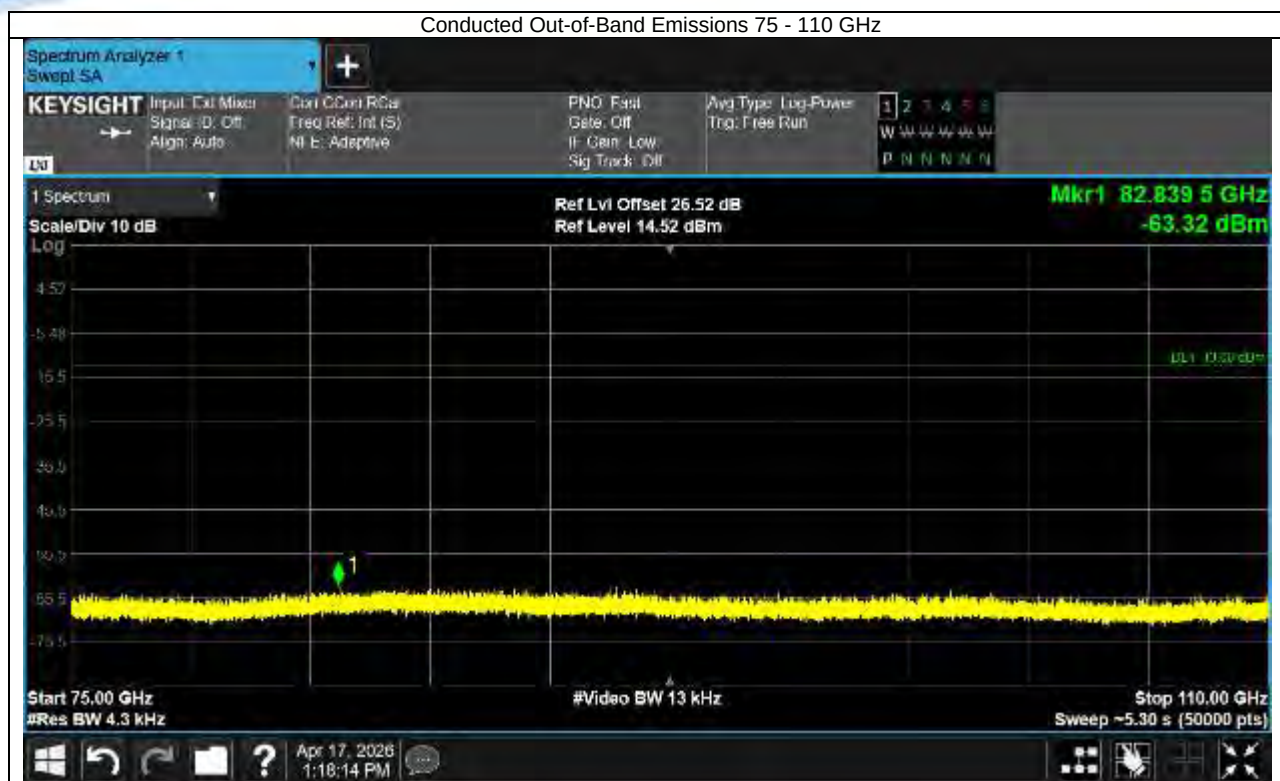




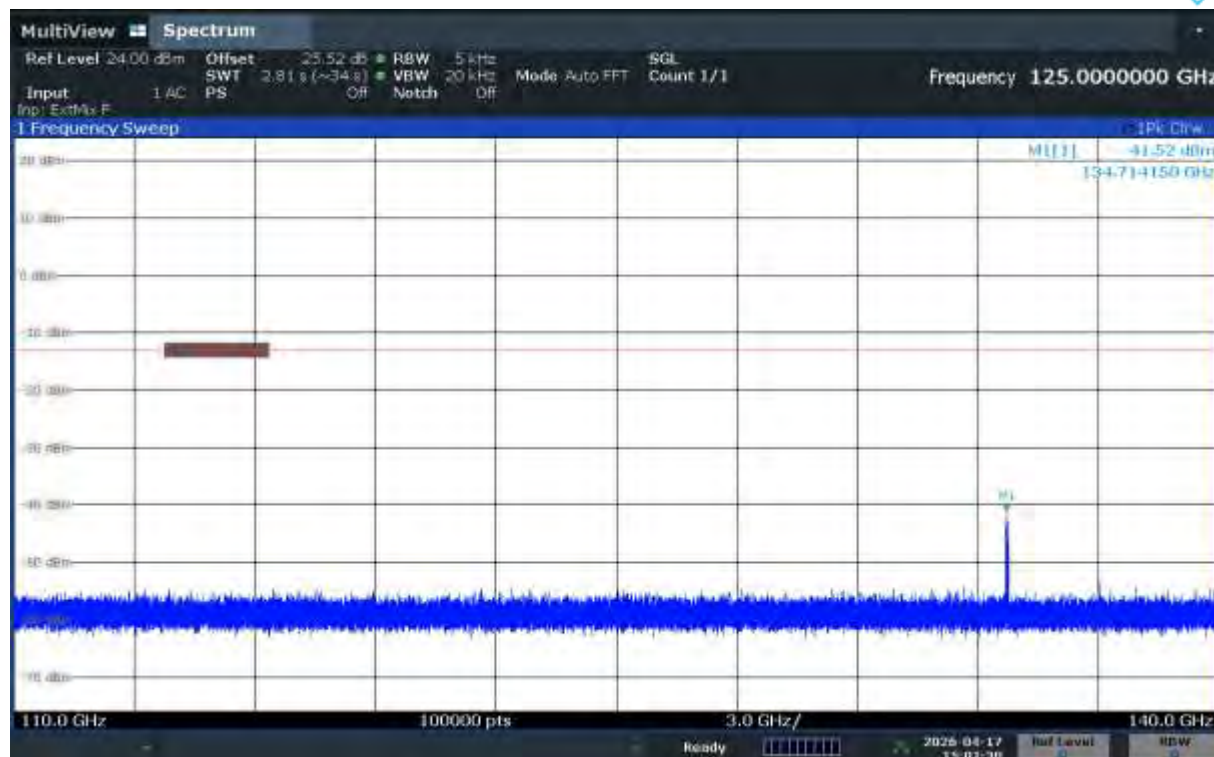






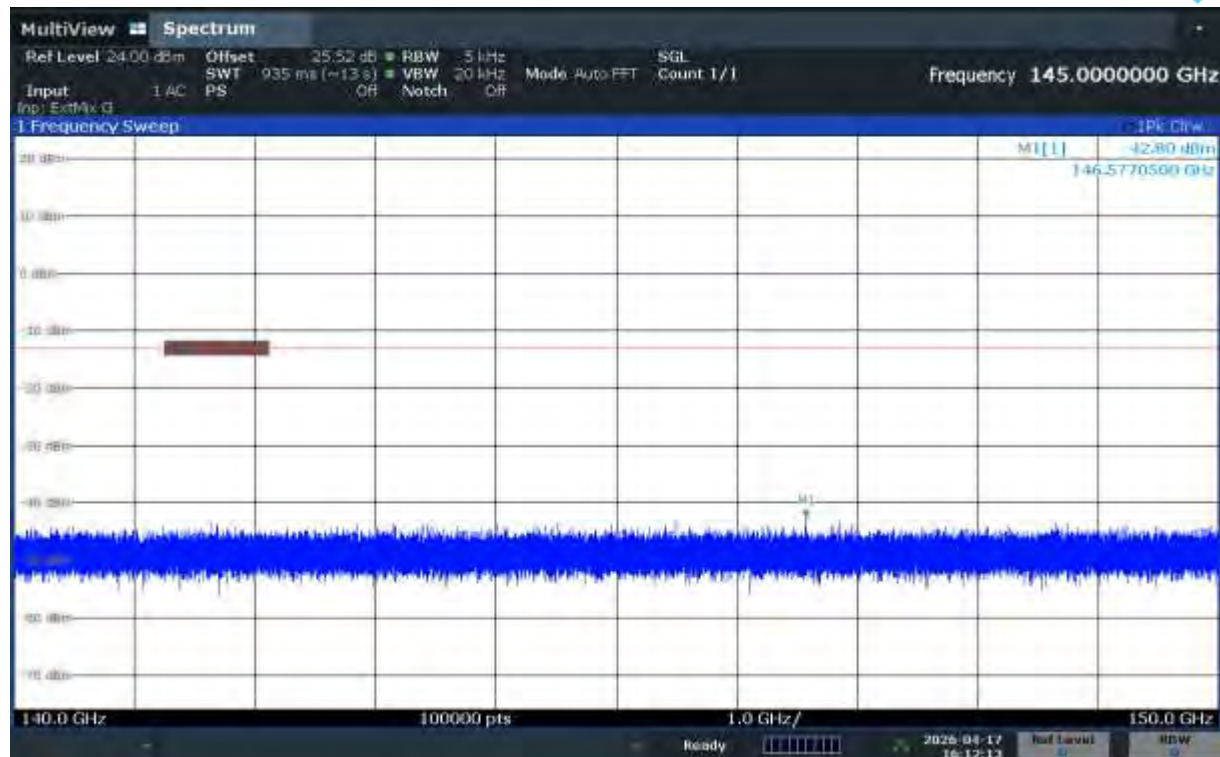


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:01:30

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:12:14

8.5.1.30. BPSK 7MHz Low Band High Channel

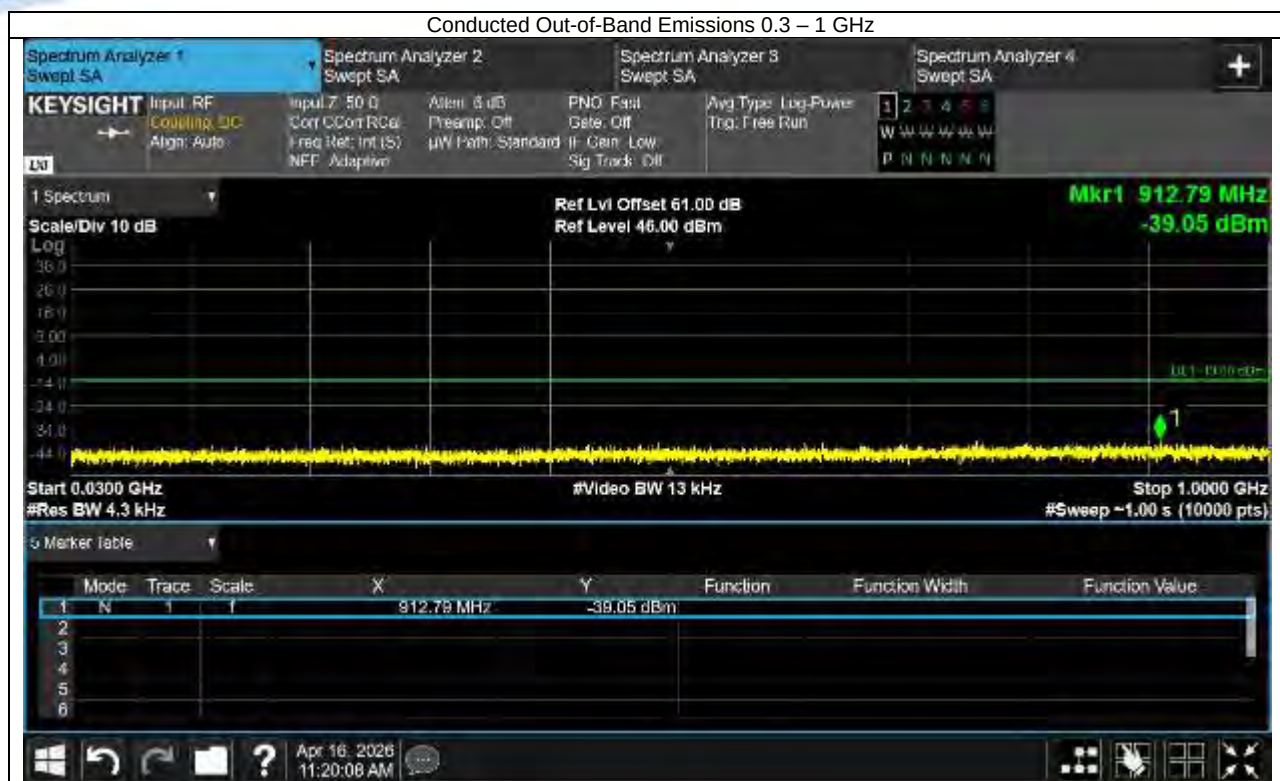
Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

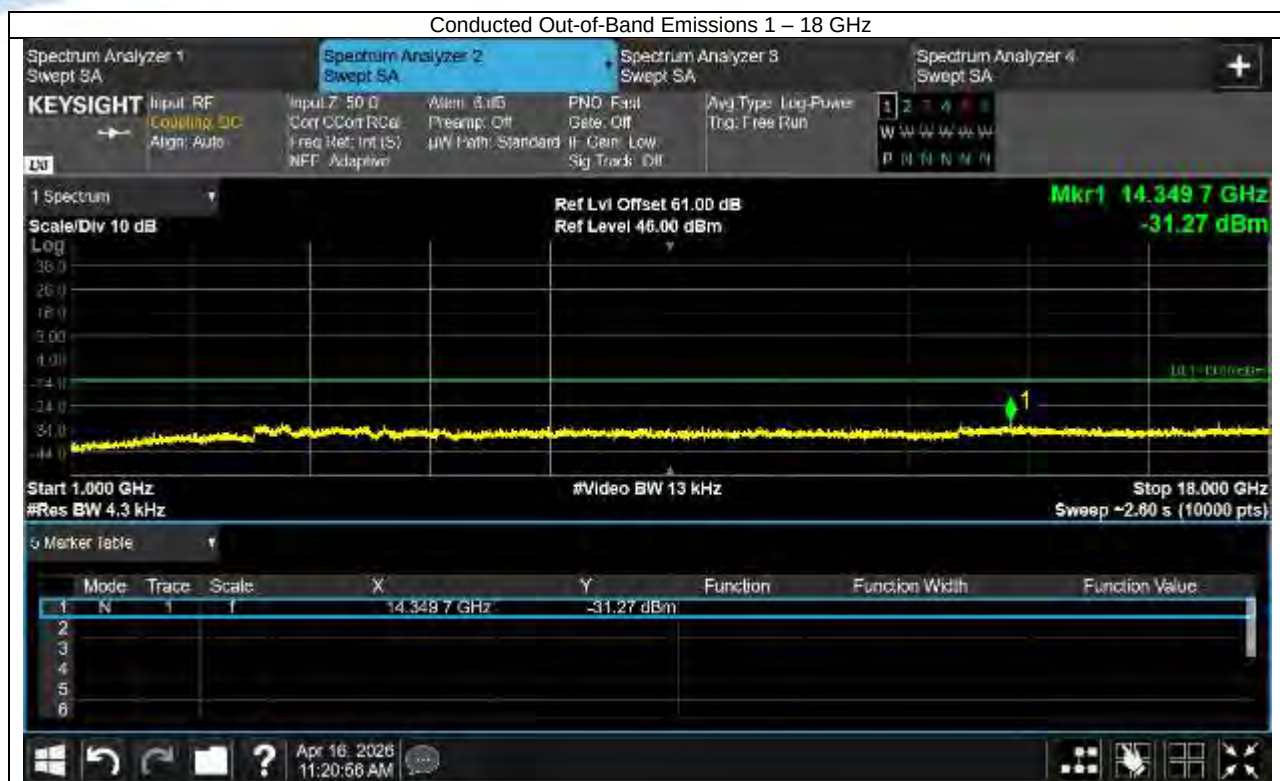
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	BPSK	Tested By:	SB
Engineering Test Notes:			

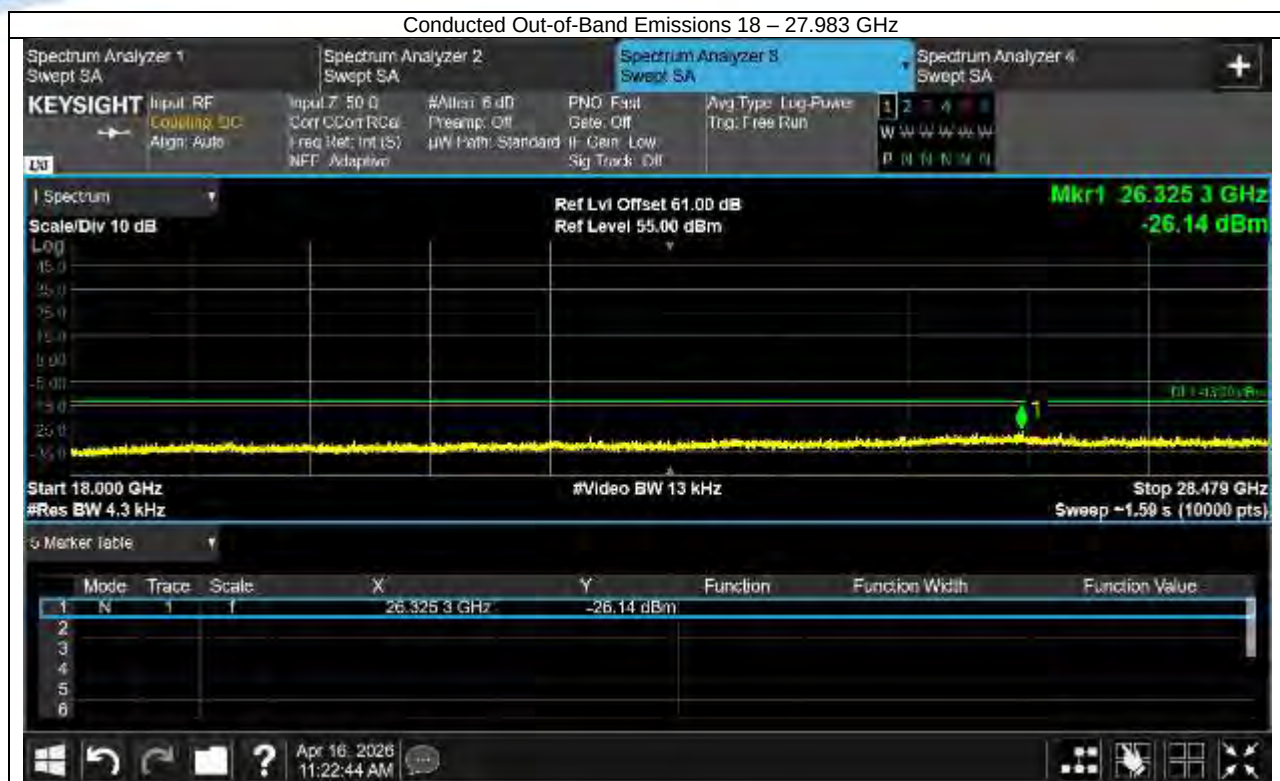
Test Measurement Results

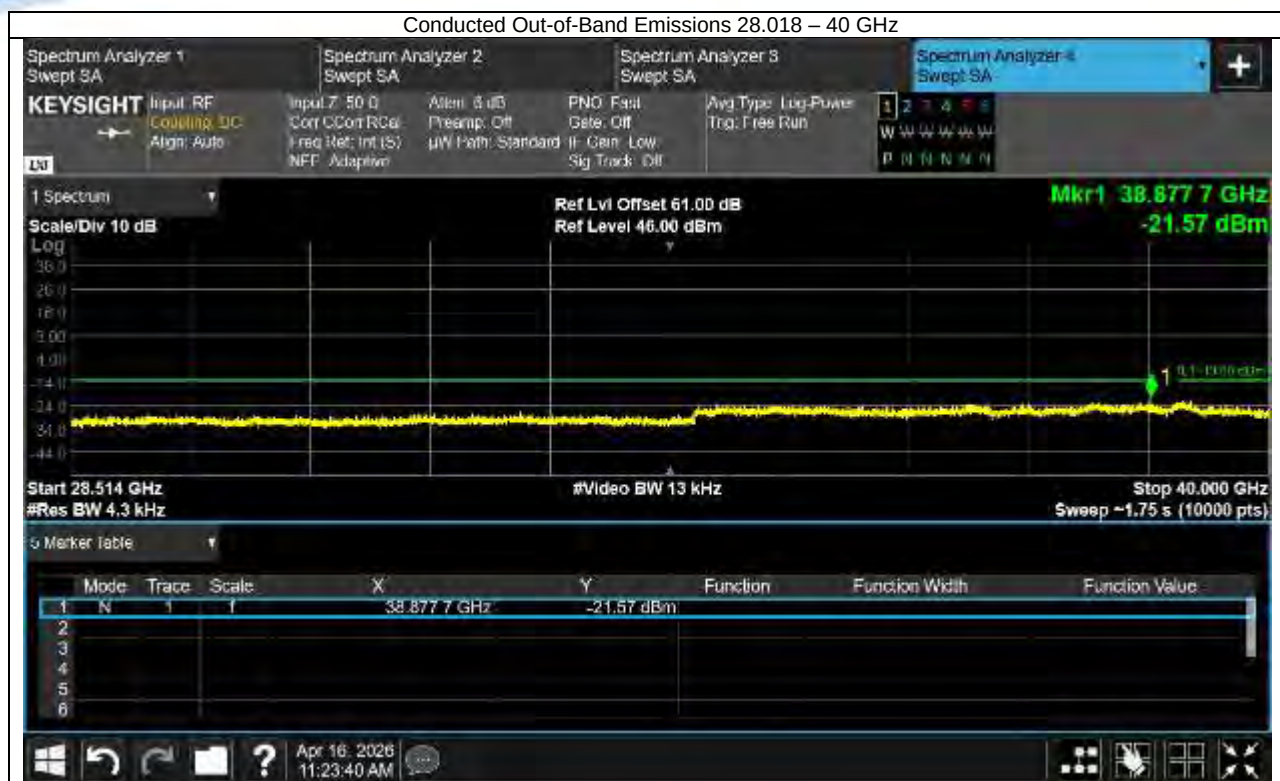
Temperature: 20 °C	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Voltage: 115 Vac, 60 Hz						
Test Frequency: 28496.475 MHz						
30MHz-1GHz	912.79	-39.05	--	-13.00	-26.05	Complies
1-18GHz	14349.70	-31.27	--	-13.00	-18.27	Complies
18-28.479GHz	26325.30	-26.14	--	-13.00	-13.14	Complies
28.514-40GHz	38877.70	-21.57	--	-13.00	-8.57	Complies
40-50GHz	49554.00	-49.59	--	-13.00	-36.59	Complies
50-75 GHz	64036.00	-60.87	-54.28	-13.00	-41.28	Complies
75-110GHz	85486.90	-57.83	--	-13.00	-44.83	Complies
110-140GHz	137212.55	-43.83	-30.62	-13.00	-17.62	Complies
140-150GHz	148762.45	-42.54	--	-13.00	-29.54	Complies

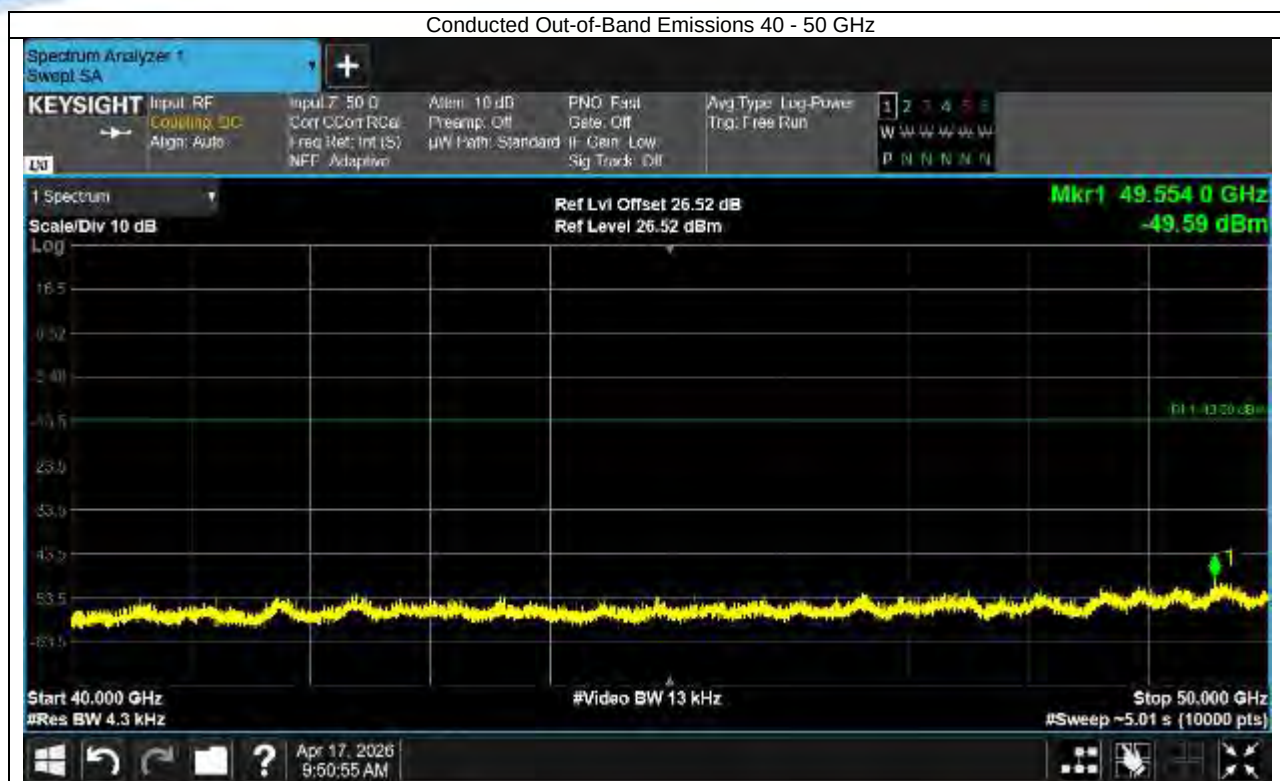
Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

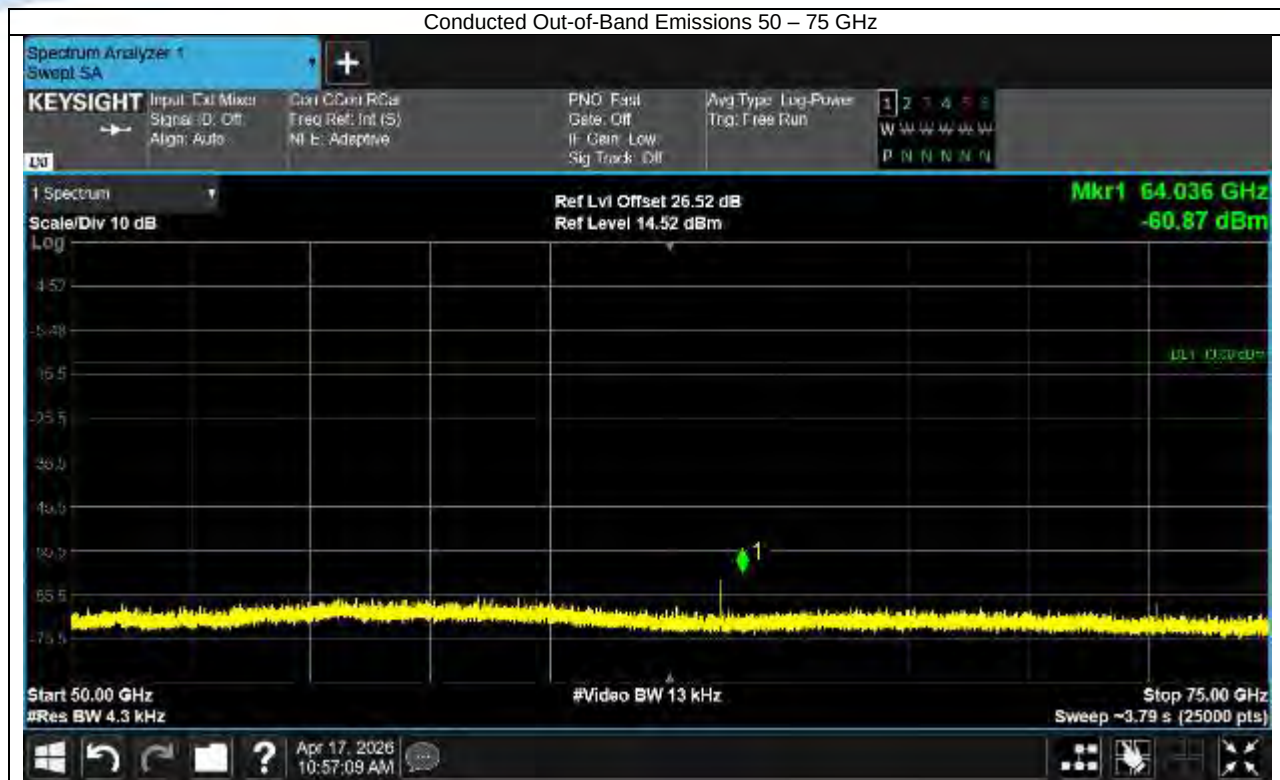


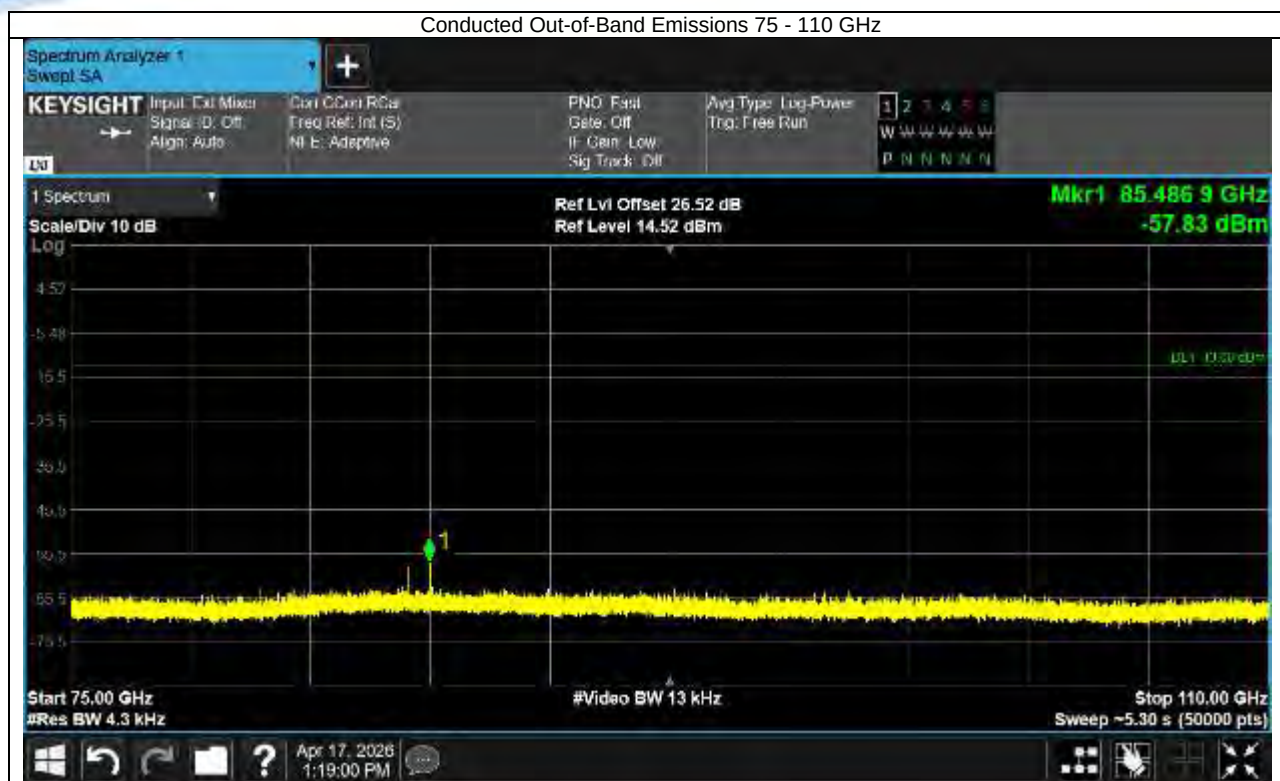




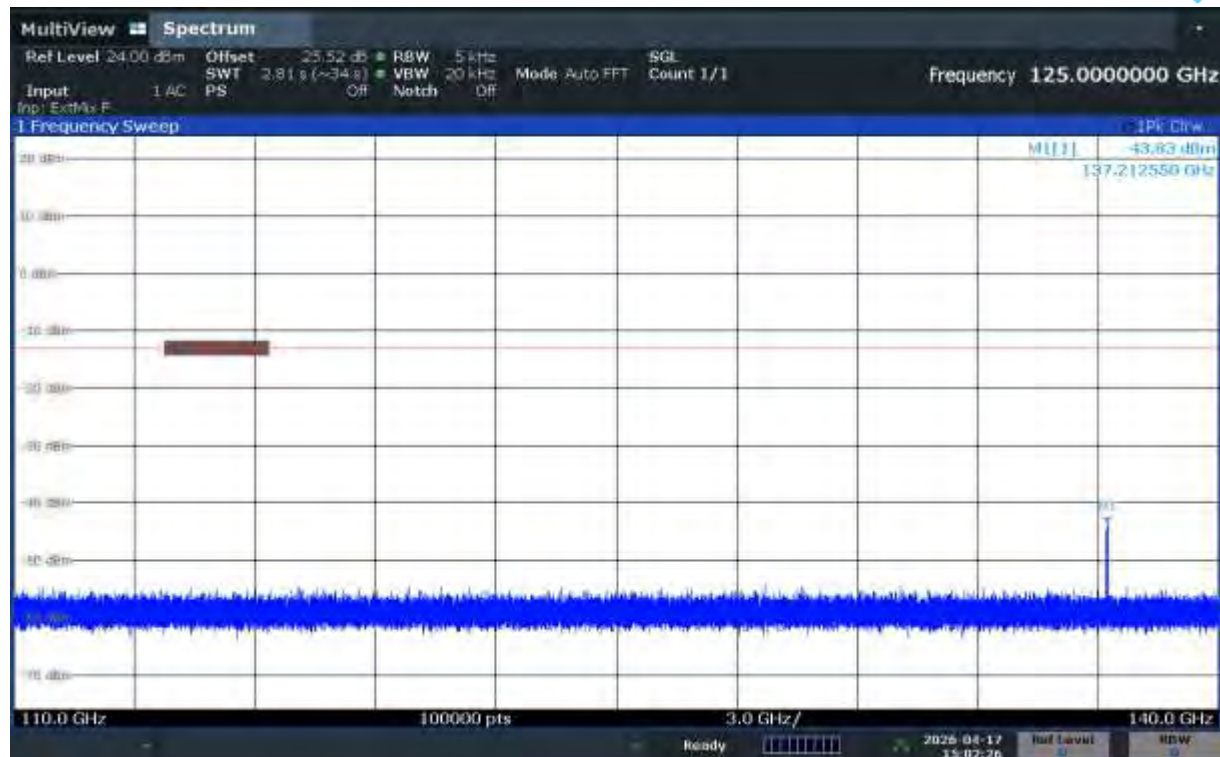






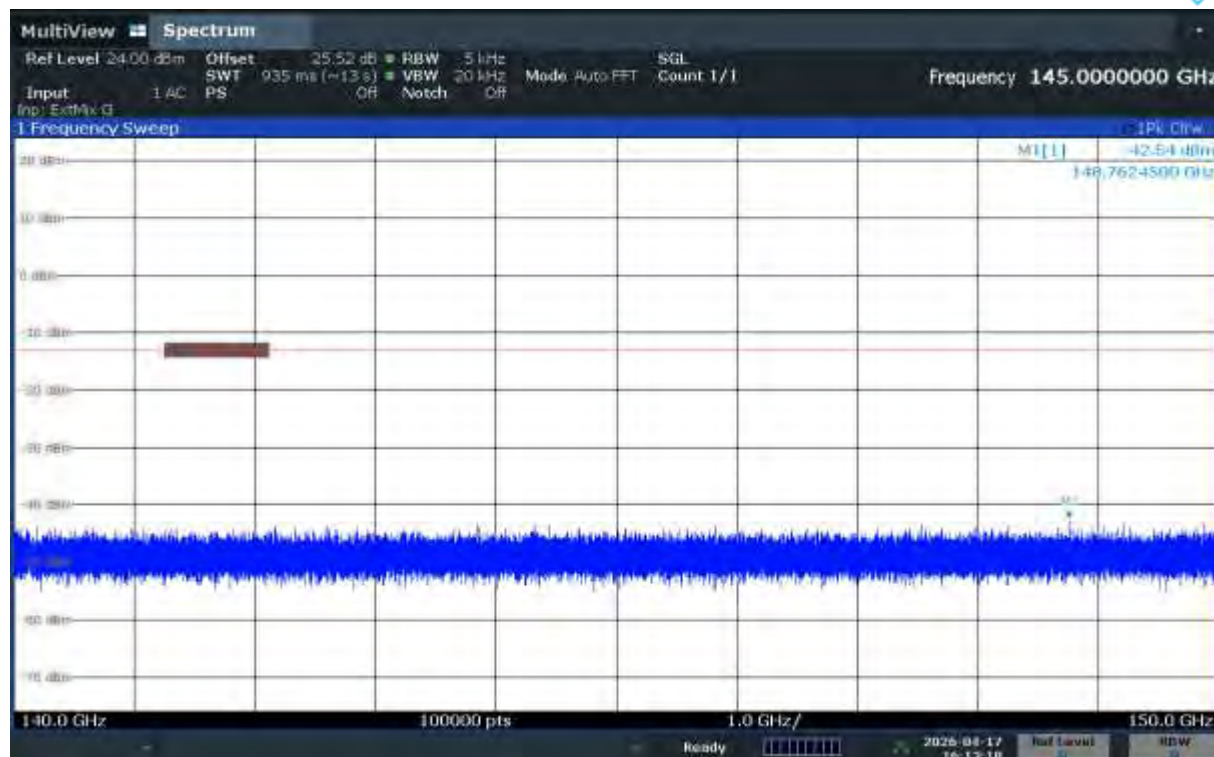


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:02:26

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:13:18

8.5.1.31. BPSK 7MHz Mid Band Low Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

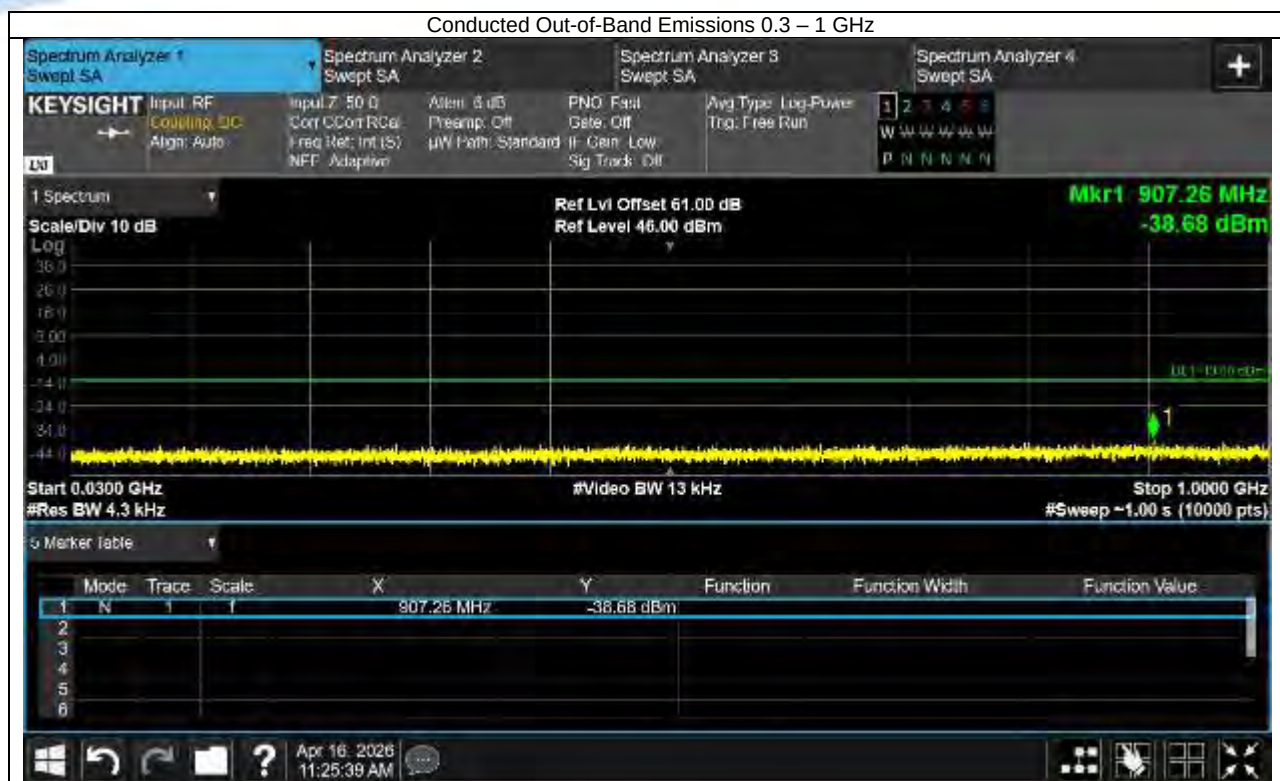
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	BPSK	Tested By:	SB
Engineering Test Notes:			

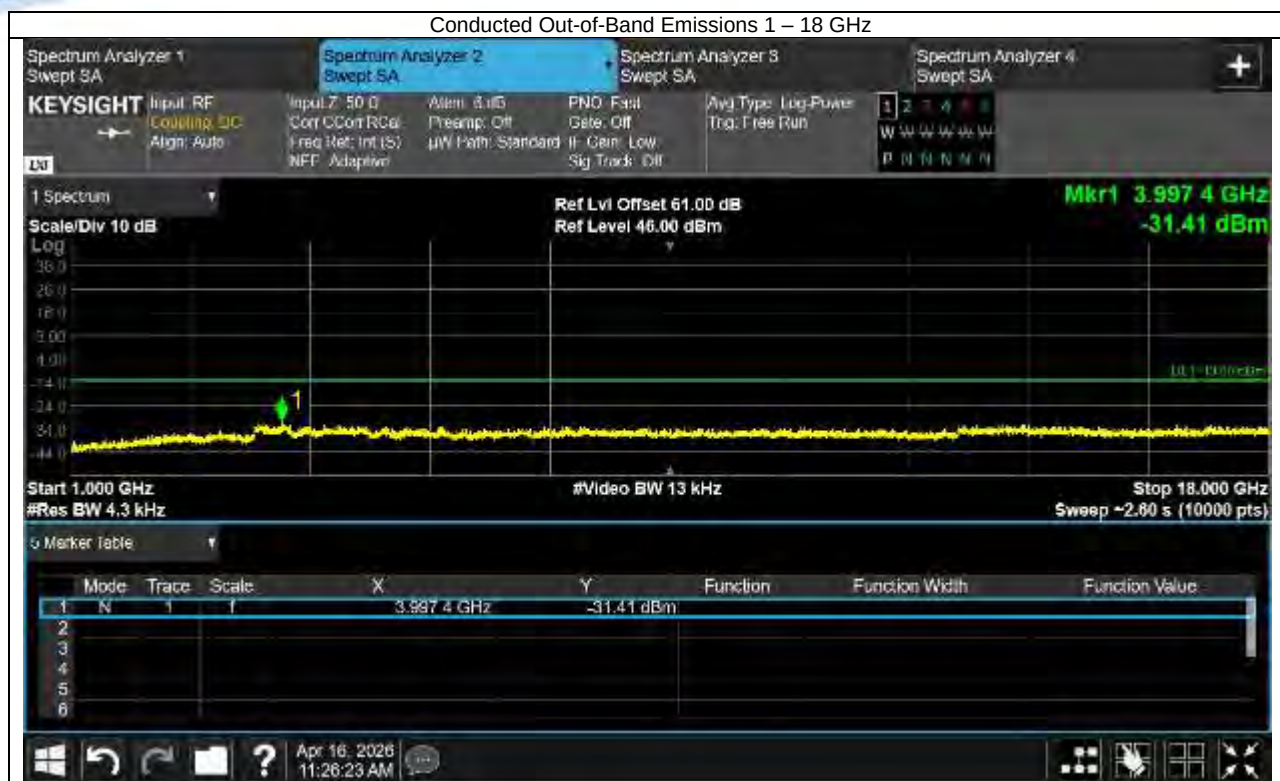
Test Measurement Results

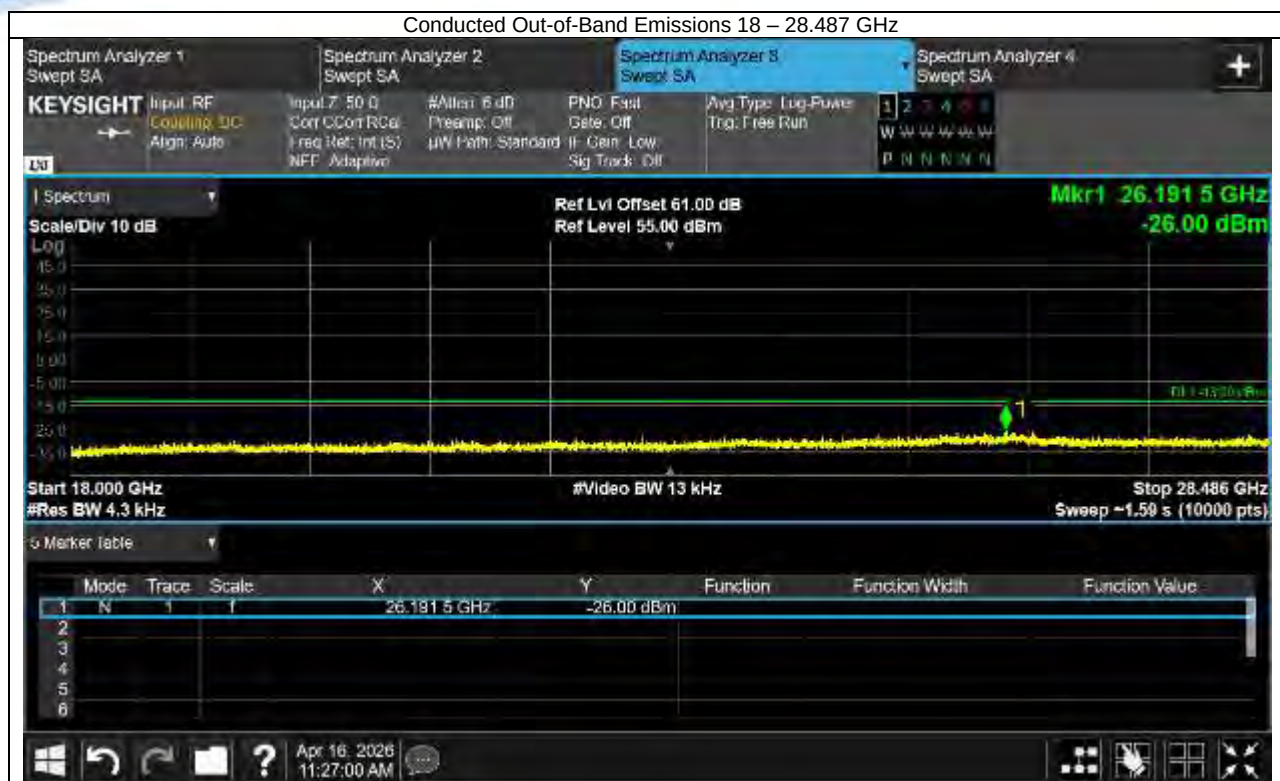
Temperature: 20 °C	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Voltage: 115 Vac, 60 Hz						
Test Frequency: 28503.525 MHz						
30MHz-1GHz	907.26	-38.68	--	-13.00	-25.68	Complies
1-18GHz	3997.40	-31.41	--	-13.00	-18.41	Complies
18-28.487GHz	26191.50	-26.00	--	-13.00	-13.00	Complies
28.514-40GHz	39213.10	-21.67	--	-13.00	-8.67	Complies
40-50GHz	49627.00	-50.04	--	-13.00	-37.04	Complies
50-75 GHz	63568.00	-61.04	-54.52	-13.00	-41.52	Complies
75-110GHz	85512.10	-56.80	--	-13.00	-43.80	Complies
110-140GHz	137256.35	-40.96	-27.75	-13.00	-14.75	Complies
140-150GHz	144509.15	-43.39	--	-13.00	-30.39	Complies

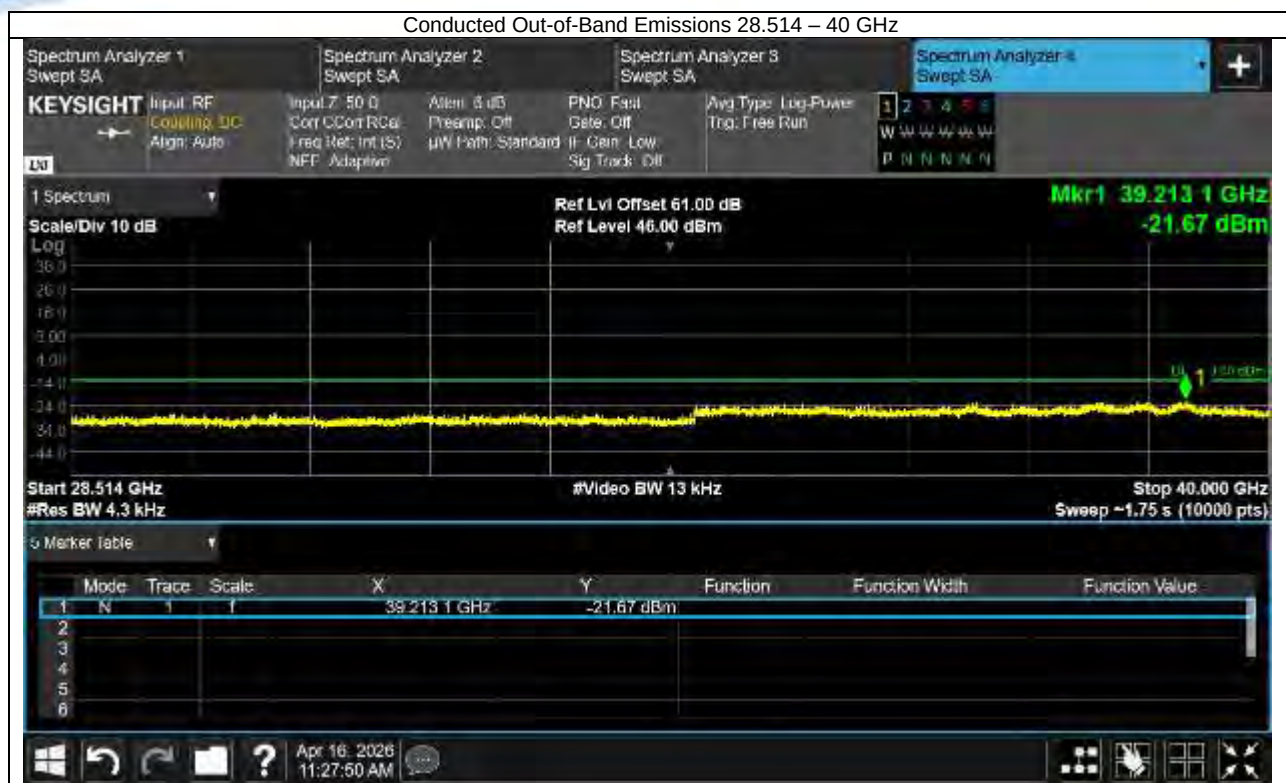
Traceability to Industry Recognized Test Methodologies

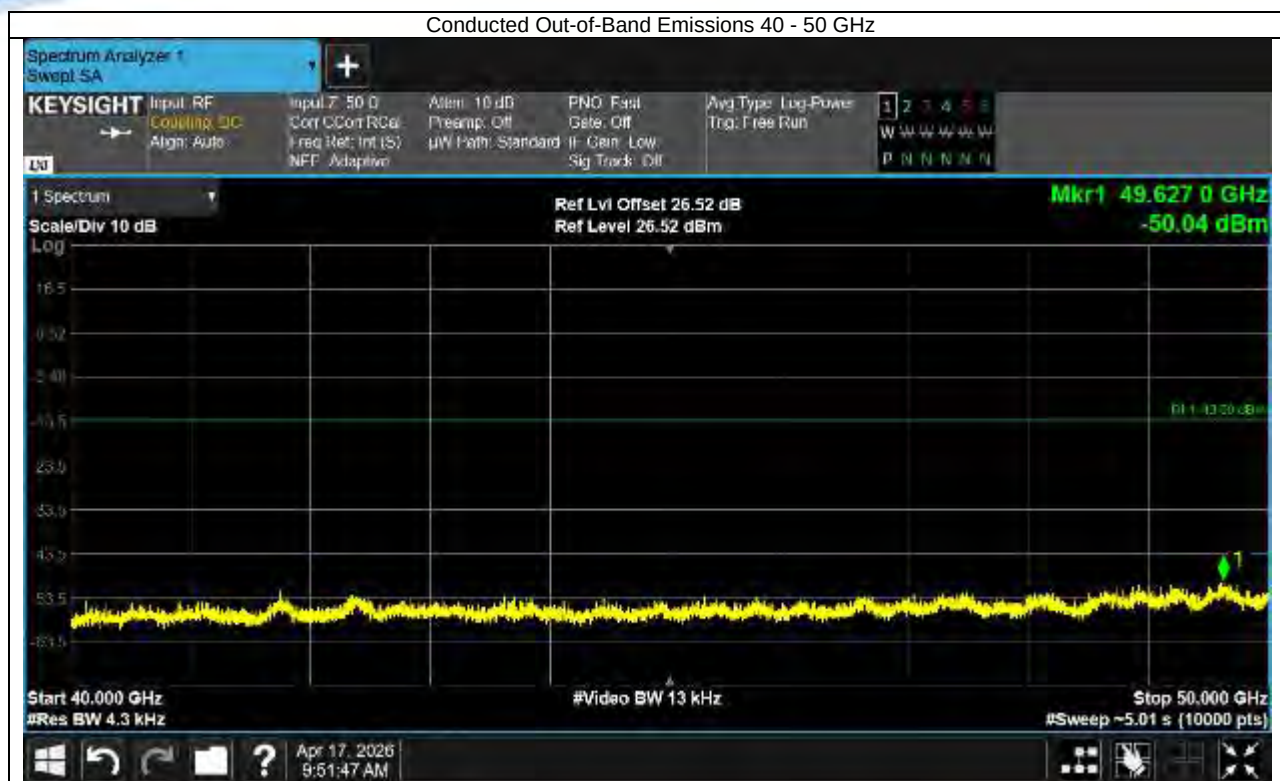
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

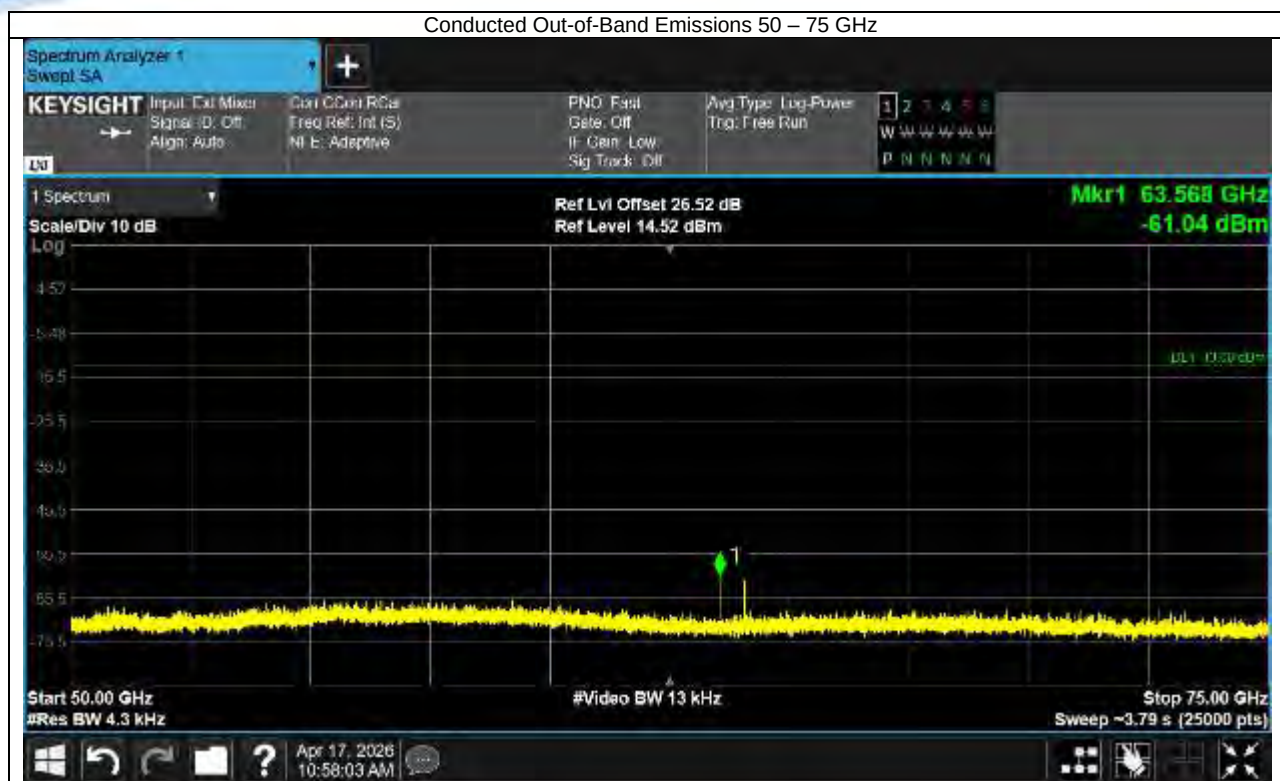






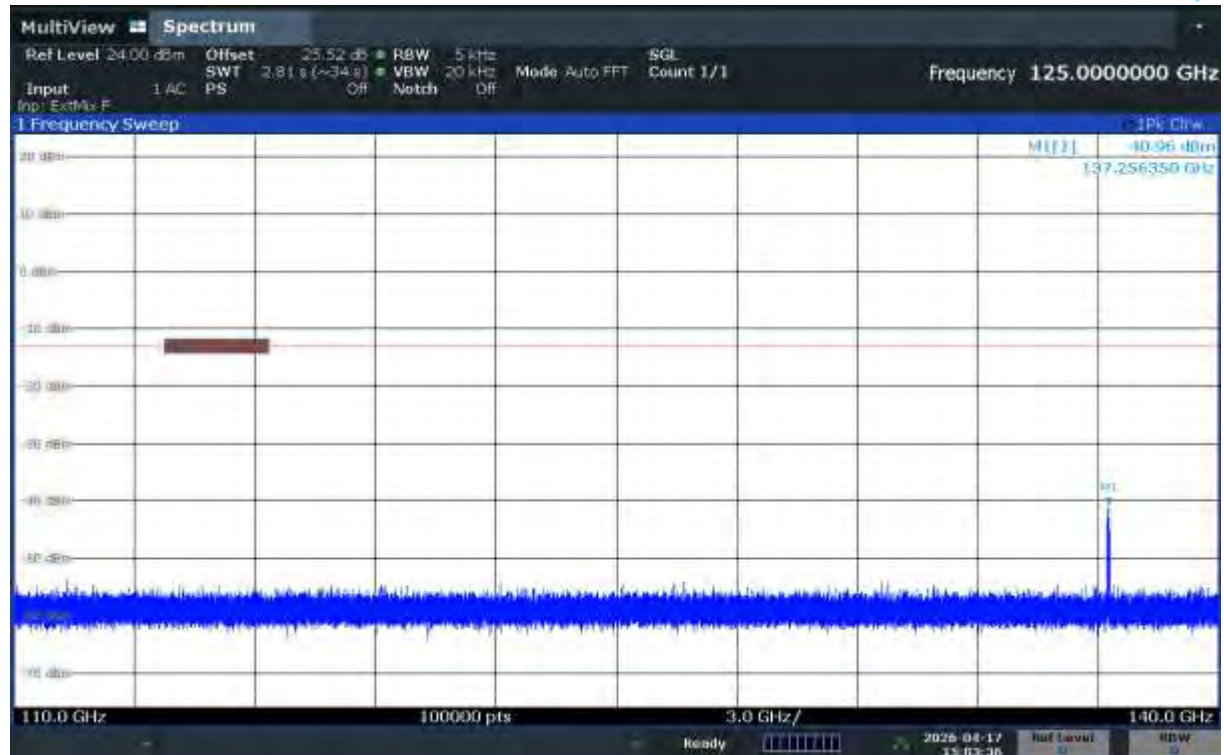






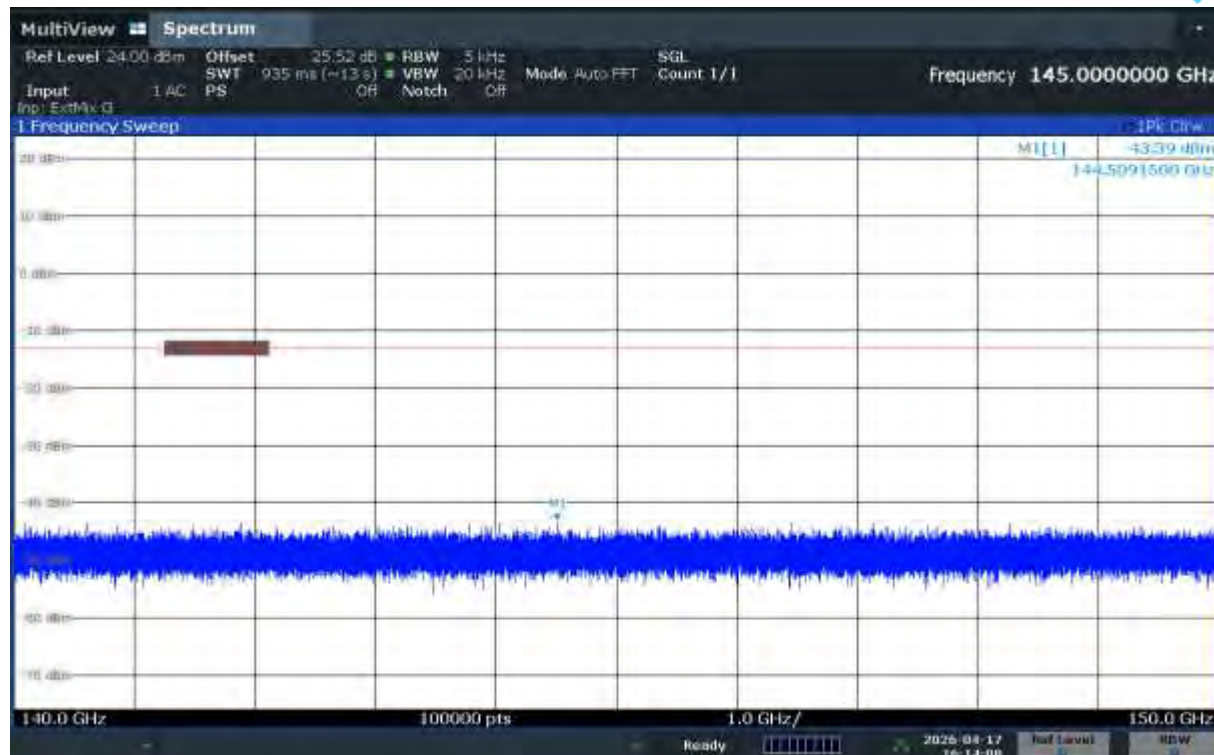


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:03:36

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:14:08

8.5.1.32. BPSK 7MHz Mid Band Mid Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

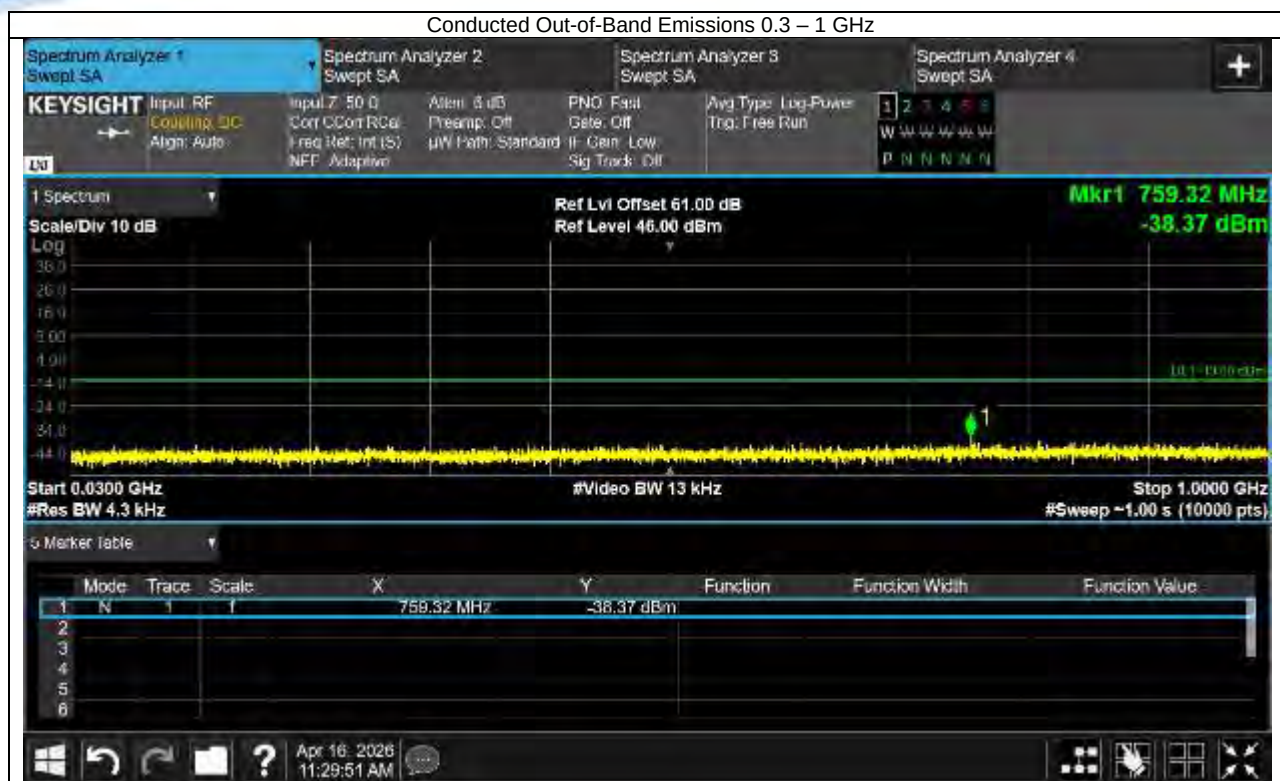
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	BPSK	Tested By:	SB
Engineering Test Notes:			

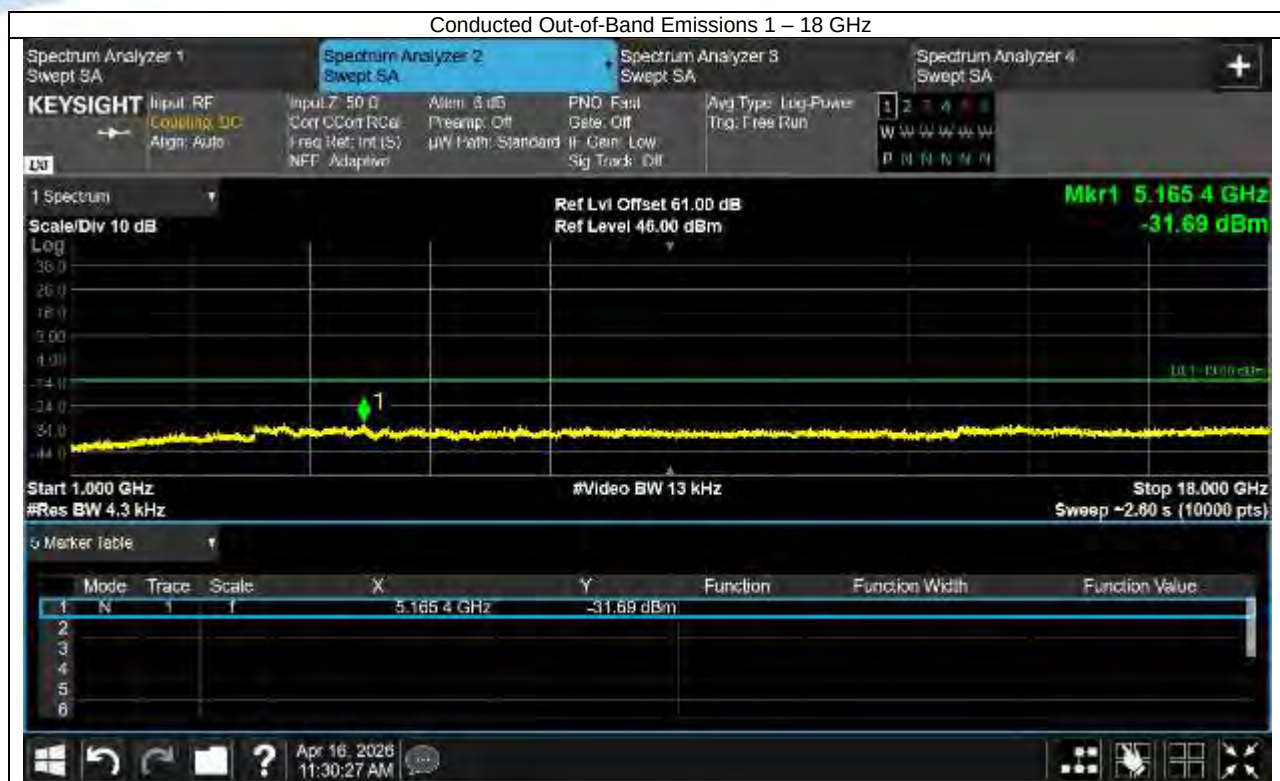
Test Measurement Results

Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 28750.00 MHz						
30MHz-1GHz	759.32	-38.37	--	-13.00	-25.37	Complies
1-18GHz	5165.40	-31.69	--	-13.00	-18.69	Complies
18-28.733GHz	25689.50	-26.77	--	-13.00	-13.77	Complies
28.768-40GHz	38837.30	-21.96	--	-13.00	-8.96	Complies
40-50GHz	49658.00	-50.11	--	-13.00	-37.11	Complies
50-75 GHz	57500.00	-50.26	-44.61	-13.00	-31.61	Complies
75-110GHz	91935.40	-59.94	--	-13.00	-46.94	Complies
110-140GHz	138483.65	-47.17	-33.88	-13.00	-20.88	Complies
140-150GHz	148659.85	-42.76	--	-13.00	-29.76	Complies

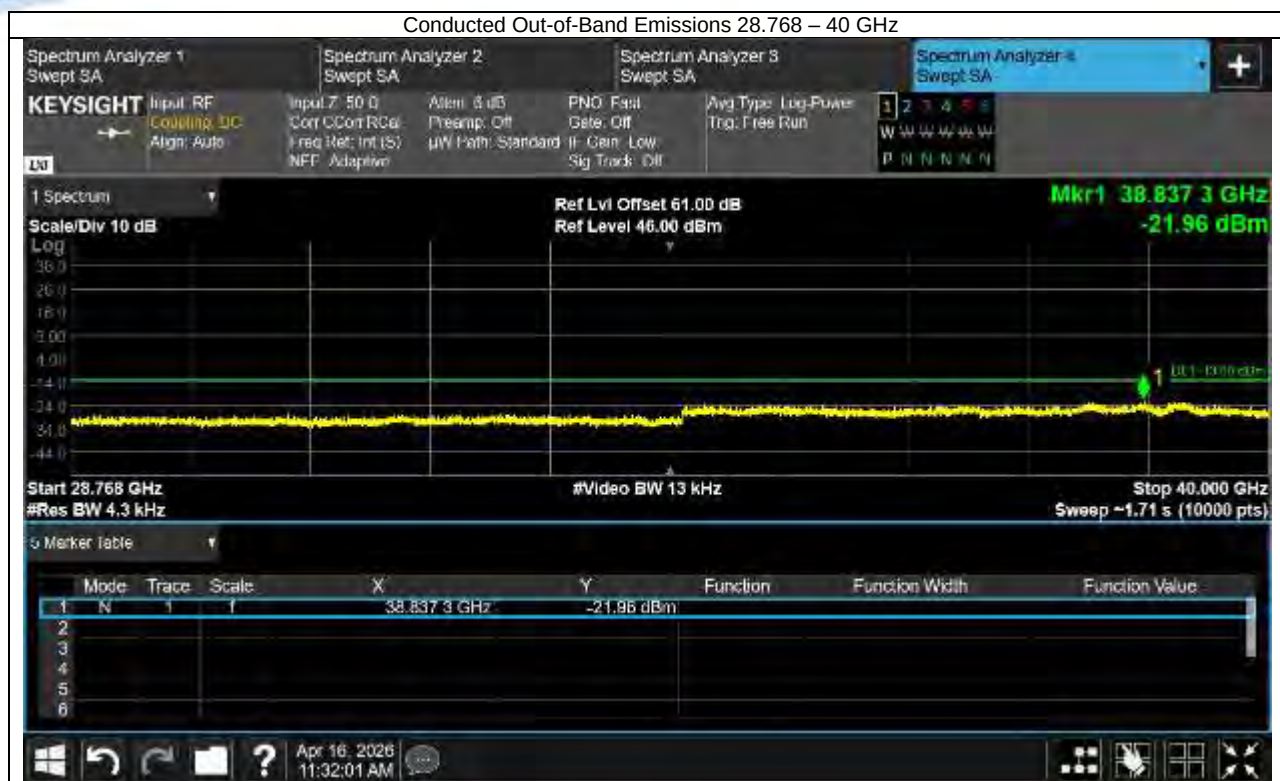
Traceability to Industry Recognized Test Methodologies

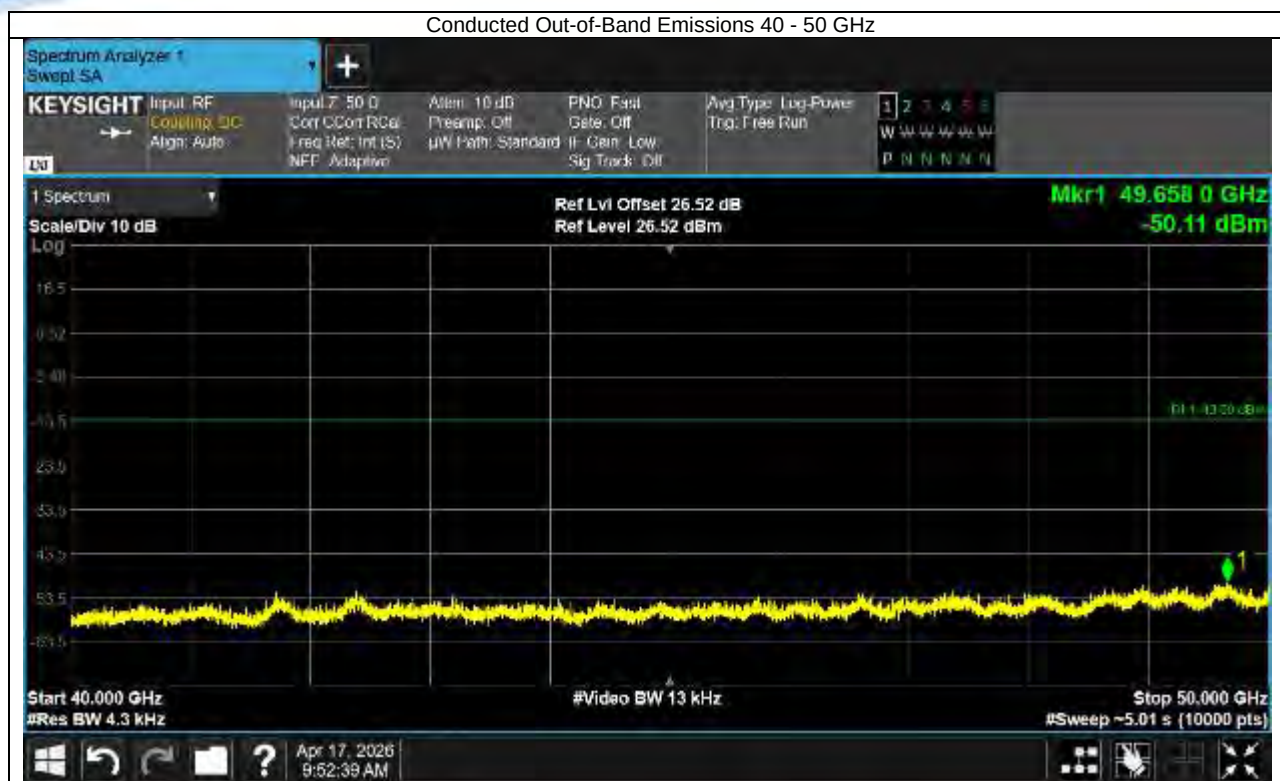
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ± 2.37 dB, > 40 GHz ± 4.6 dB

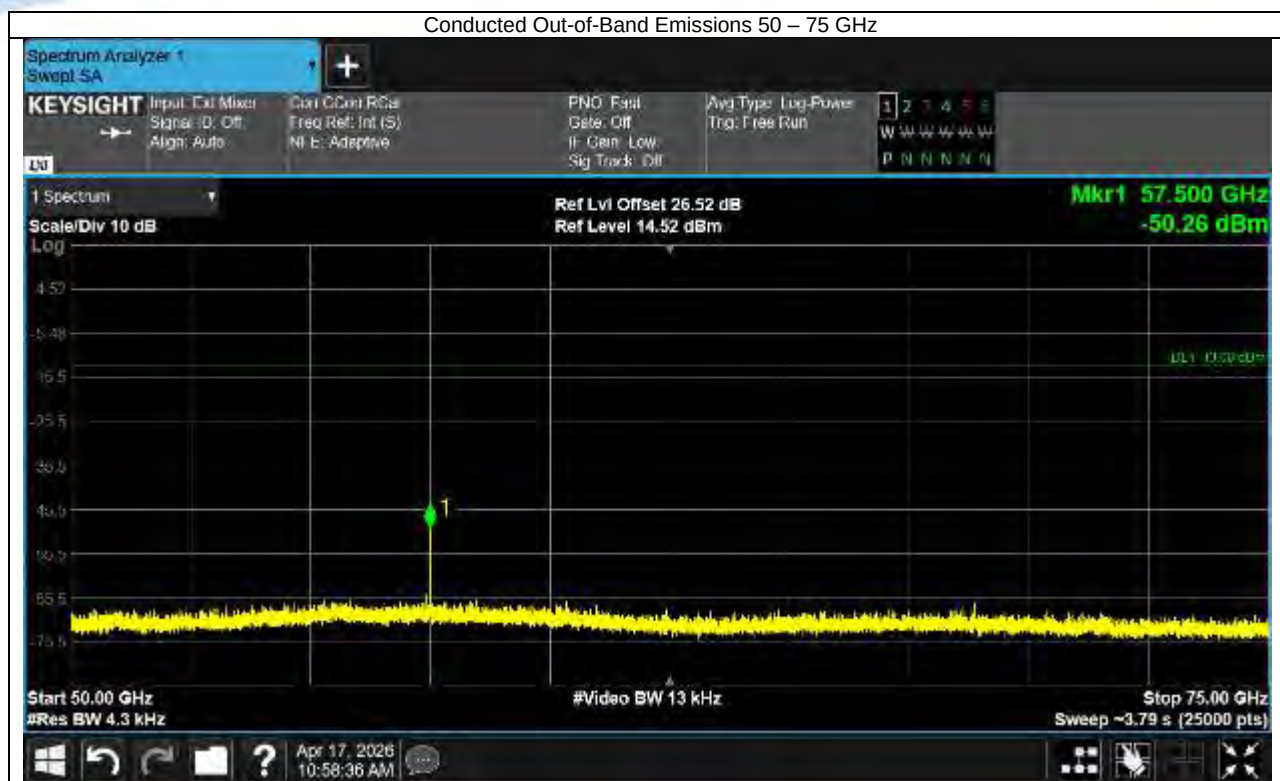


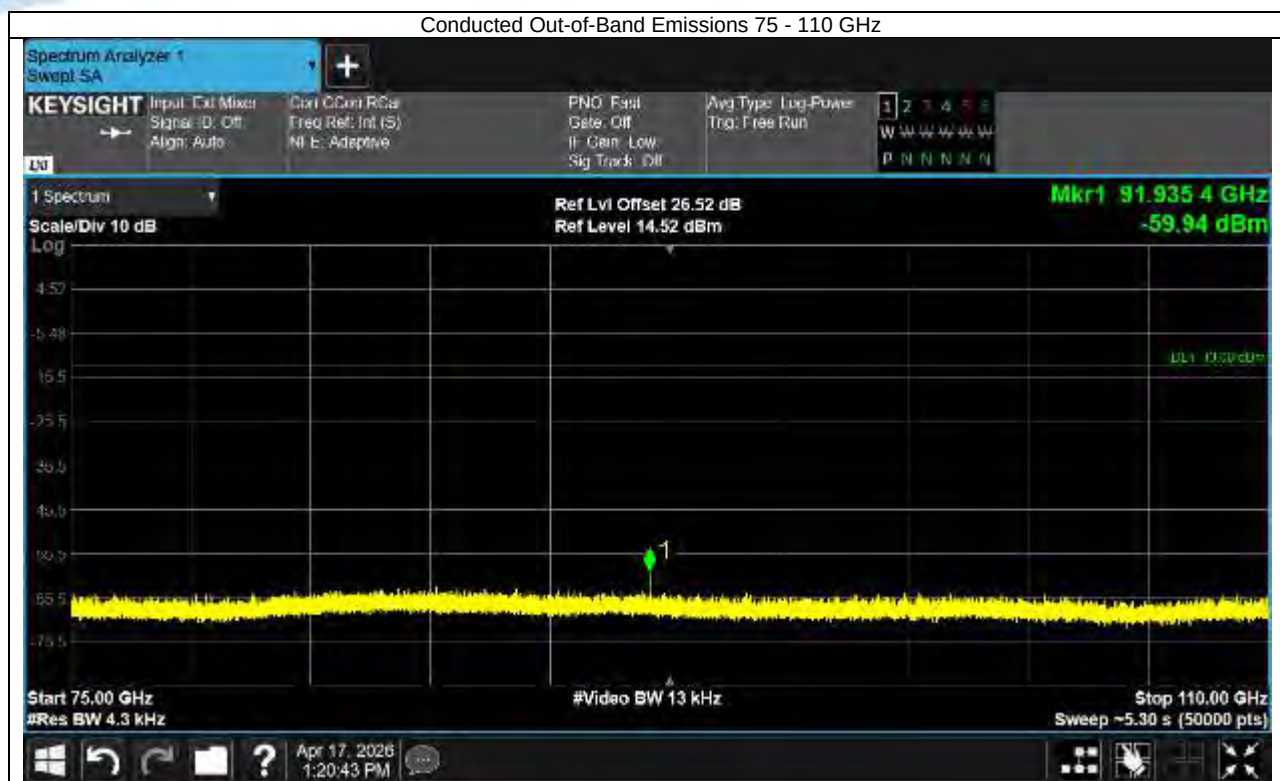




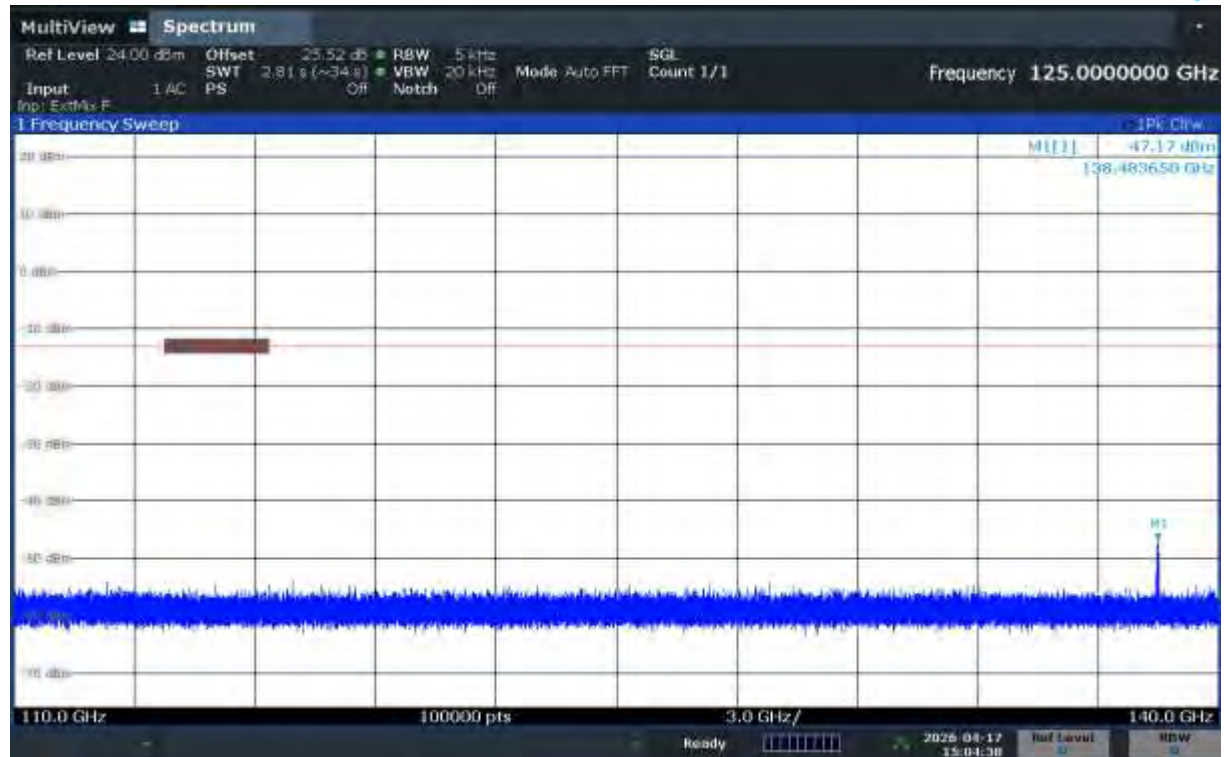






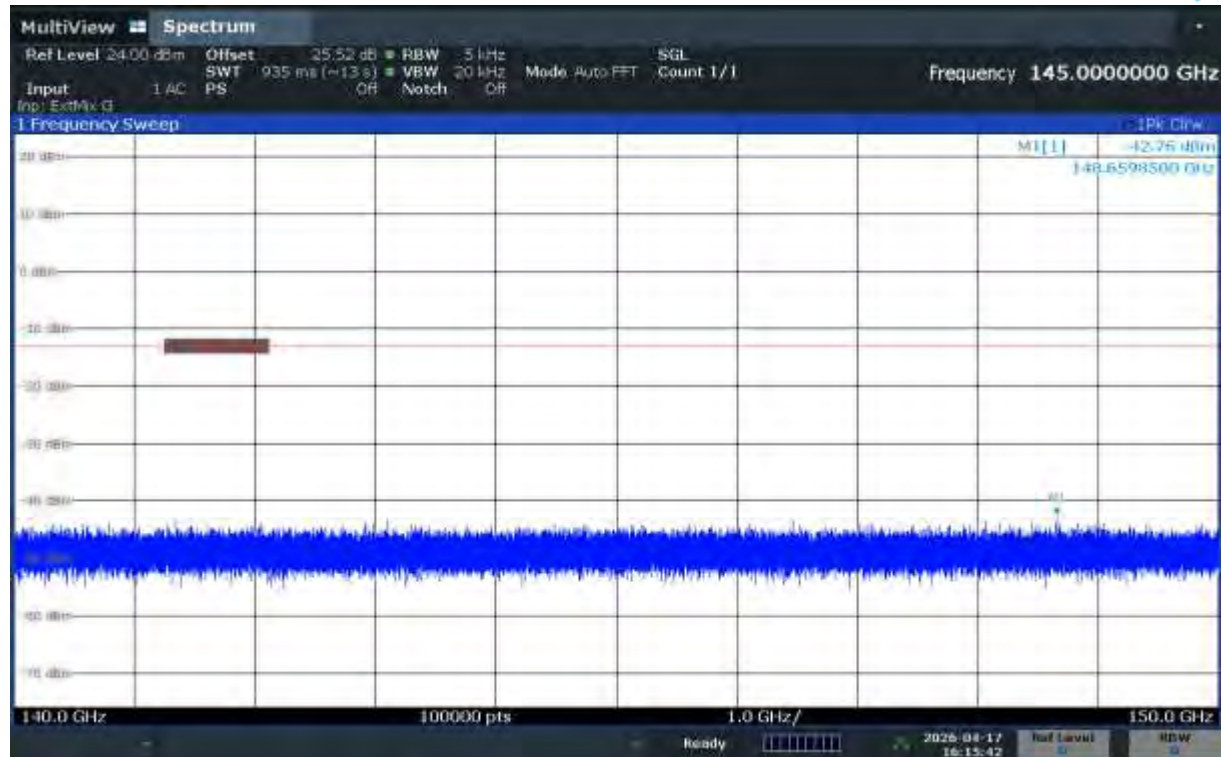


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:04:38

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:15:42

8.5.1.33. BPSK 7MHz Mid Band High Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

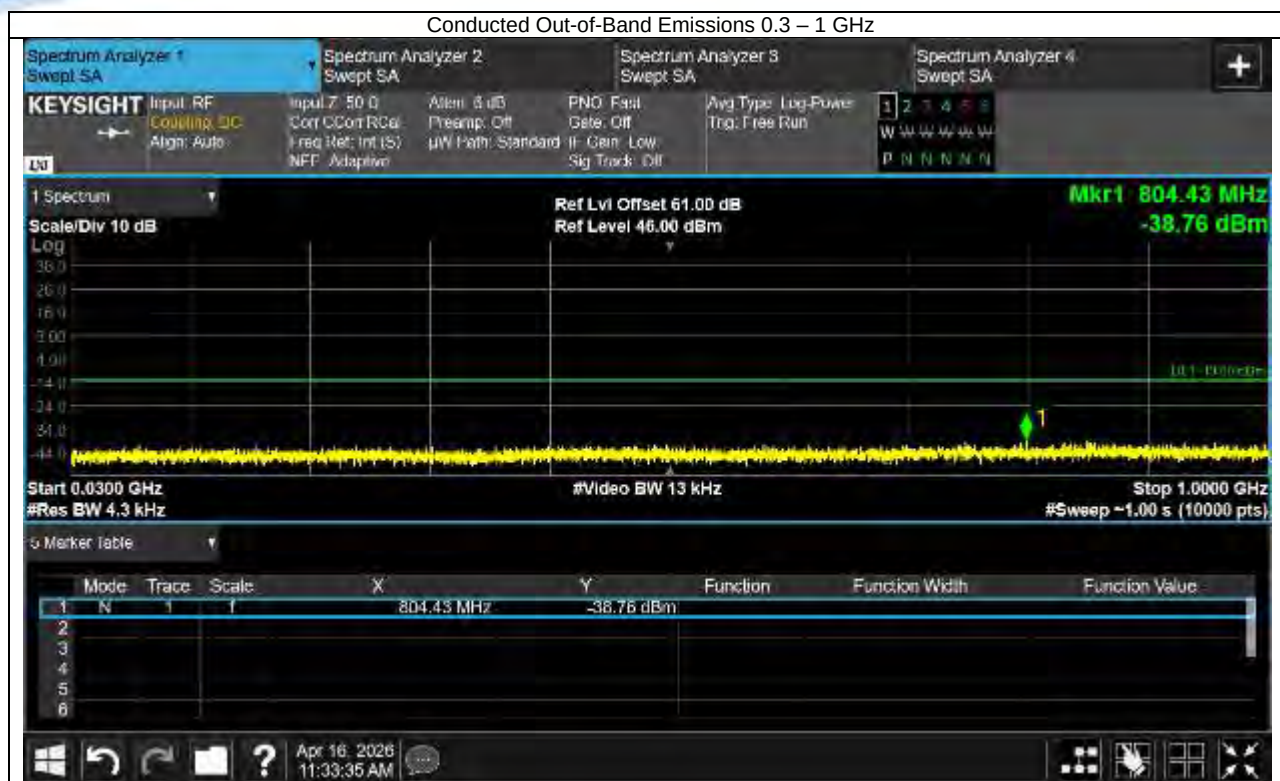
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	BPSK	Tested By:	SB
Engineering Test Notes:			

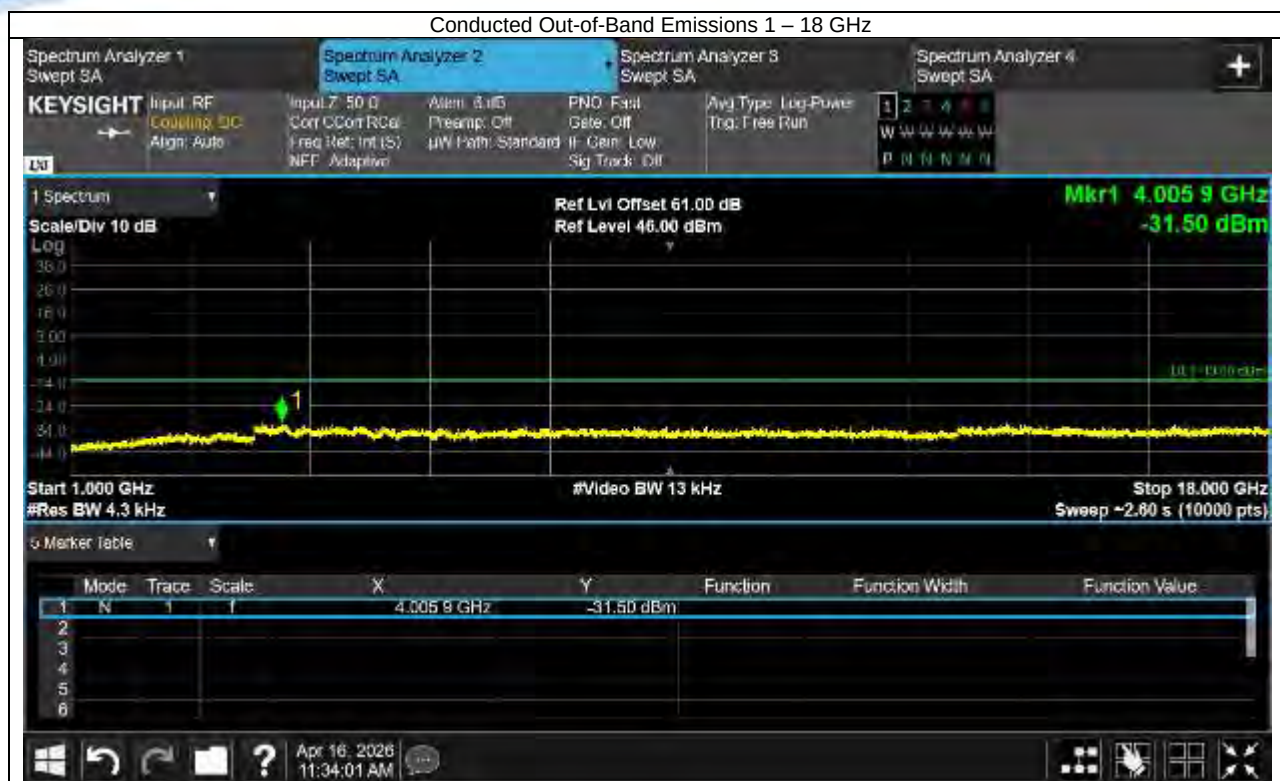
Test Measurement Results

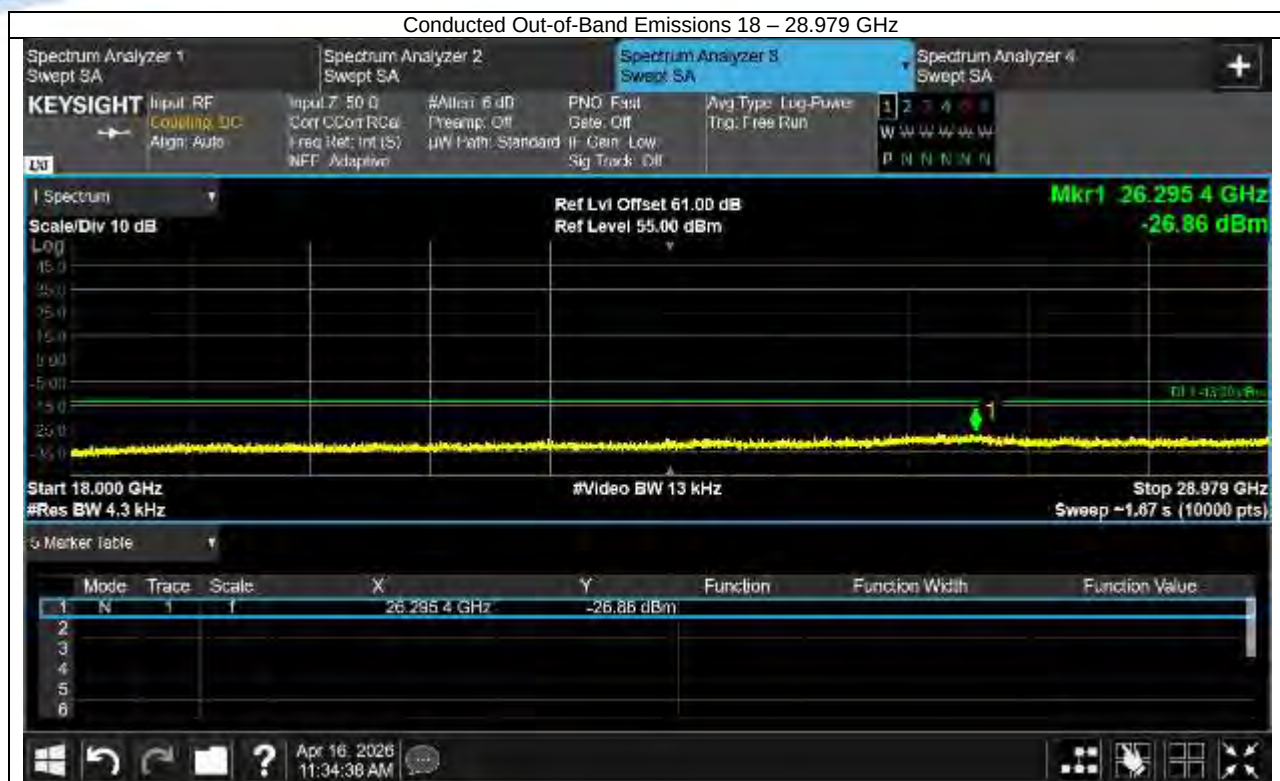
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 28996.475 MHz						
30MHz-1GHz	804.43	-38.76	--	-13.00	-25.76	Complies
1-18GHz	4005.90	-31.50	--	-13.00	-18.50	Complies
18-28.979GHz	26295.40	-26.86	--	-13.00	-13.86	Complies
29.014-40GHz	38379.40	-22.16	--	-13.00	-9.16	Complies
40-50GHz	49601.00	-50.00	--	-13.00	-37.00	Complies
50-75 GHz	57993.00	-51.24	-45.51	-13.00	-32.51	Complies
75-110GHz	84243.00	-61.76	--	-13.00	-48.76	Complies
110-140GHz	139686.05	-46.37	-33.01	-13.00	-20.01	Complies
140-150GHz	147934.75	-43.07	--	-13.00	-30.07	Complies

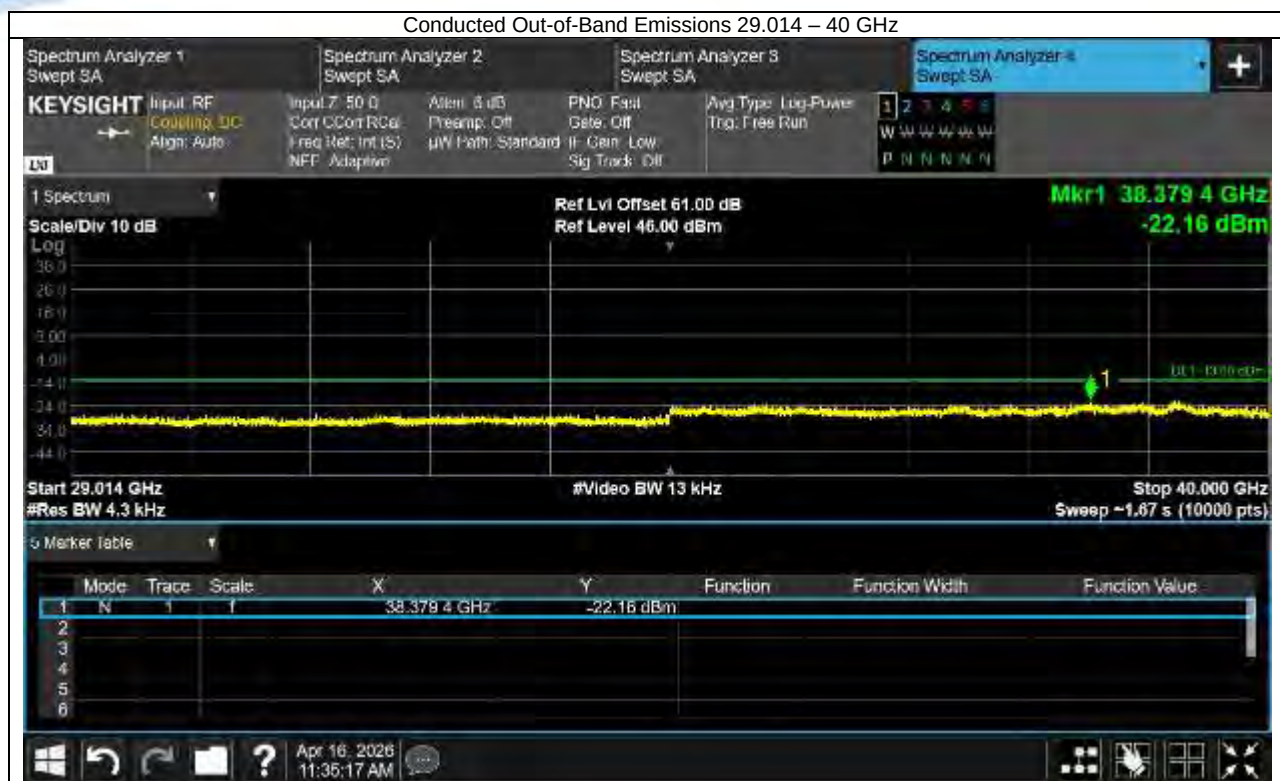
Traceability to Industry Recognized Test Methodologies

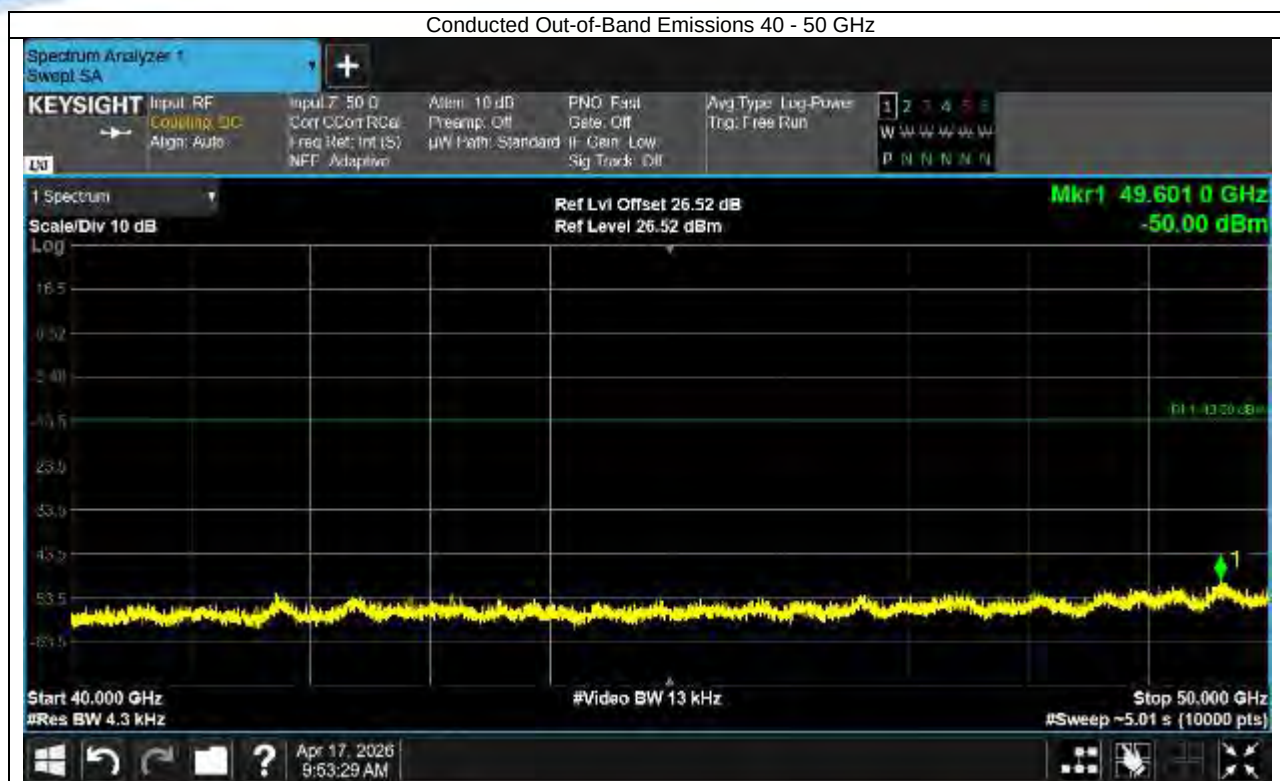
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

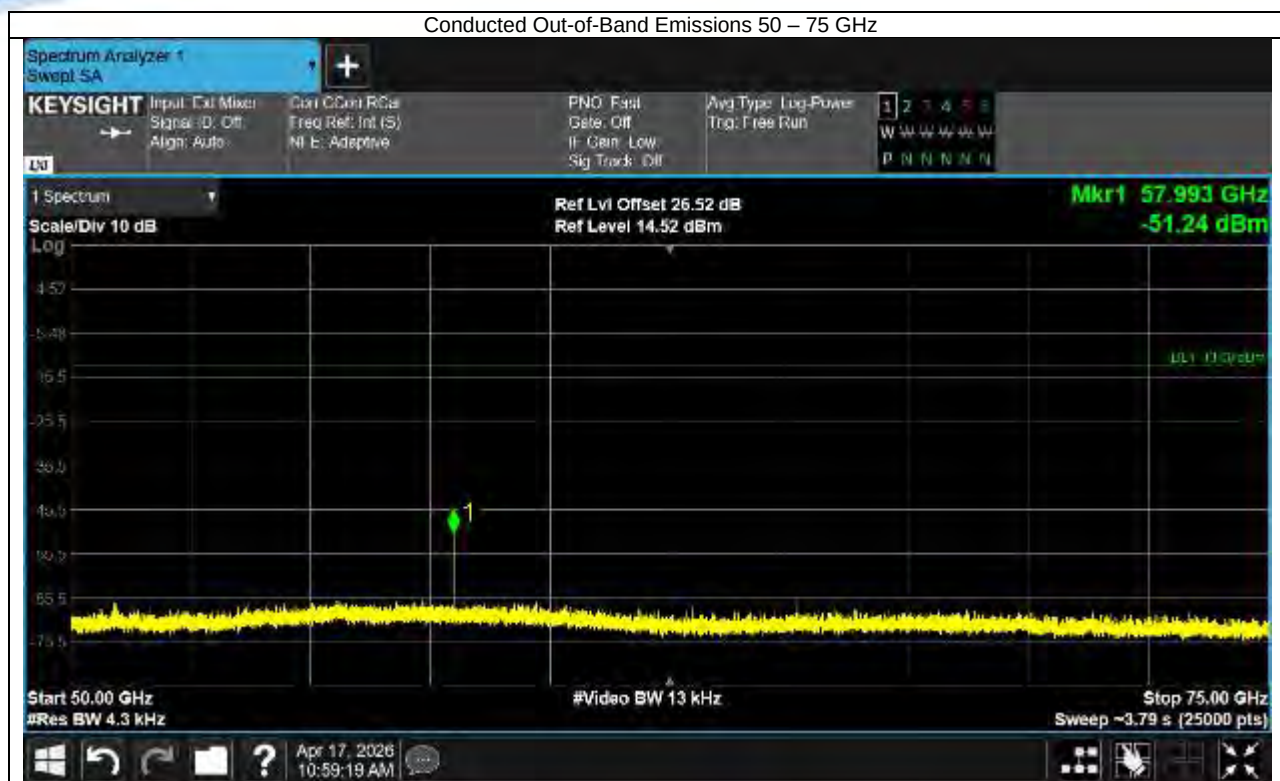


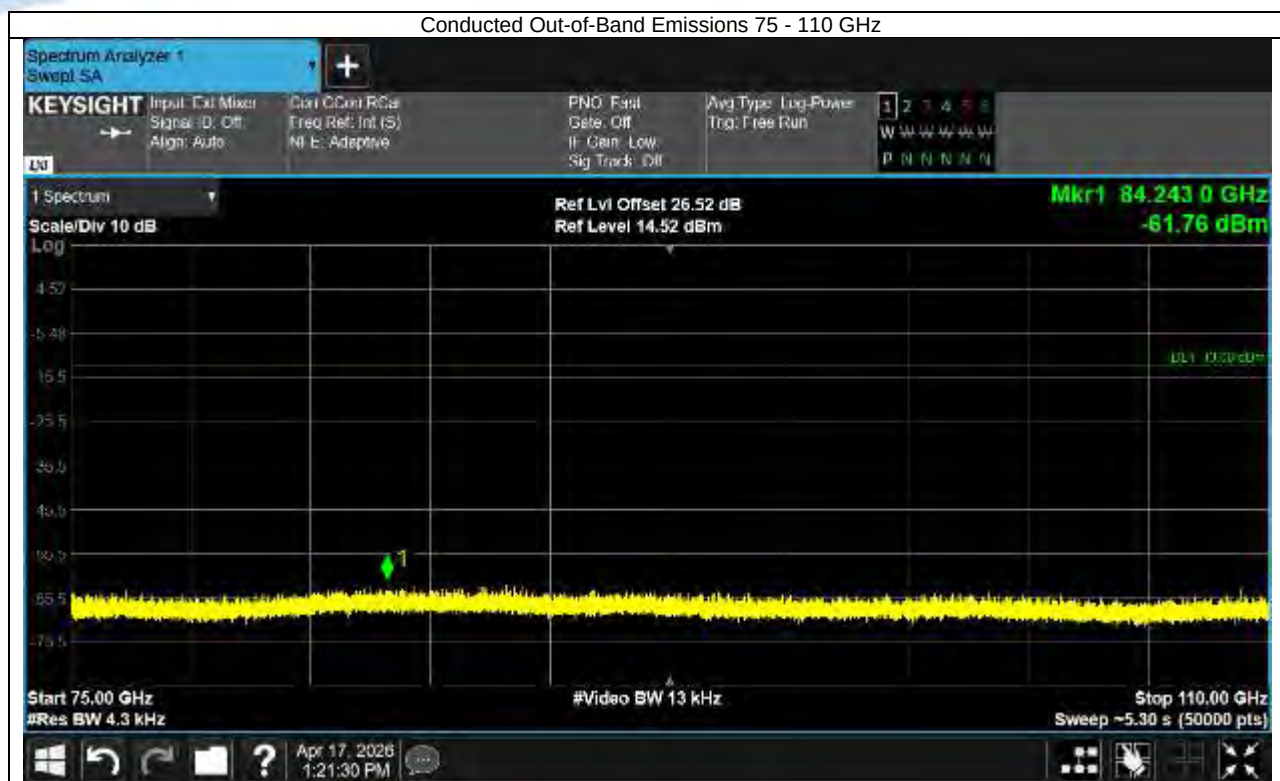




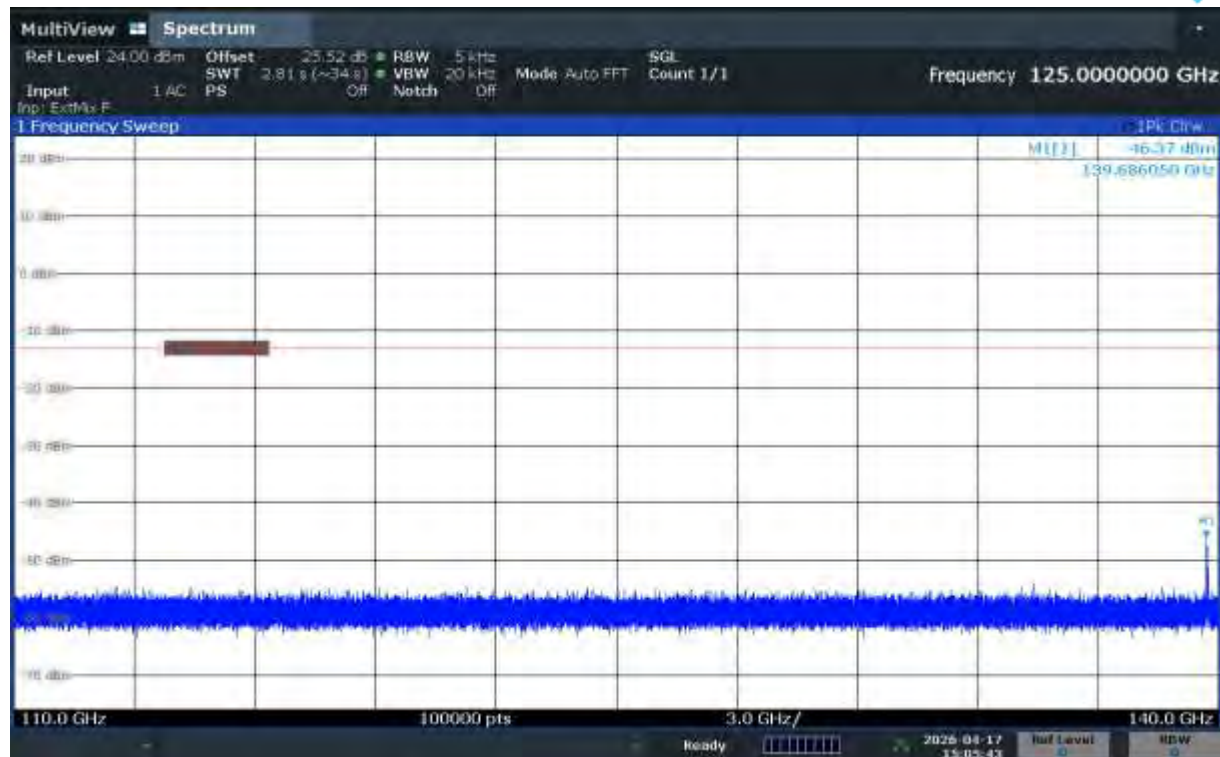






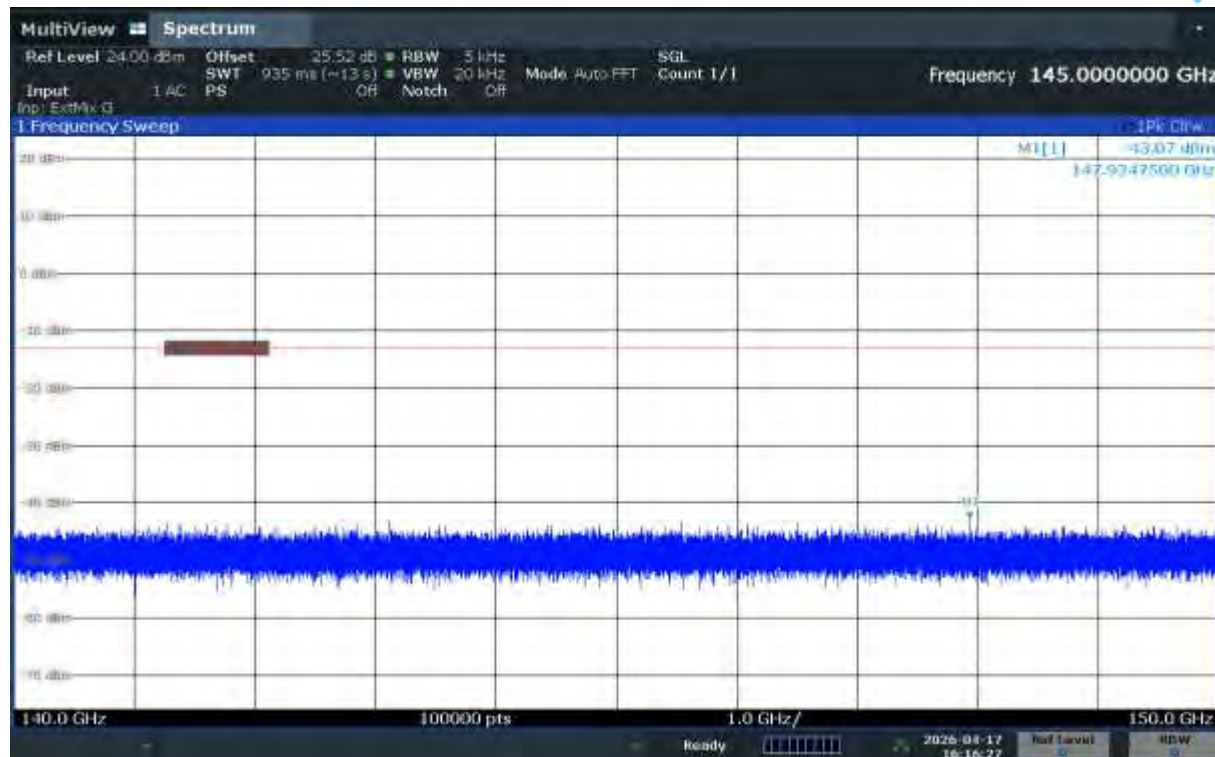


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:05:43

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:16:28

8.5.1.34. BPSK 7MHz High Band Low Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

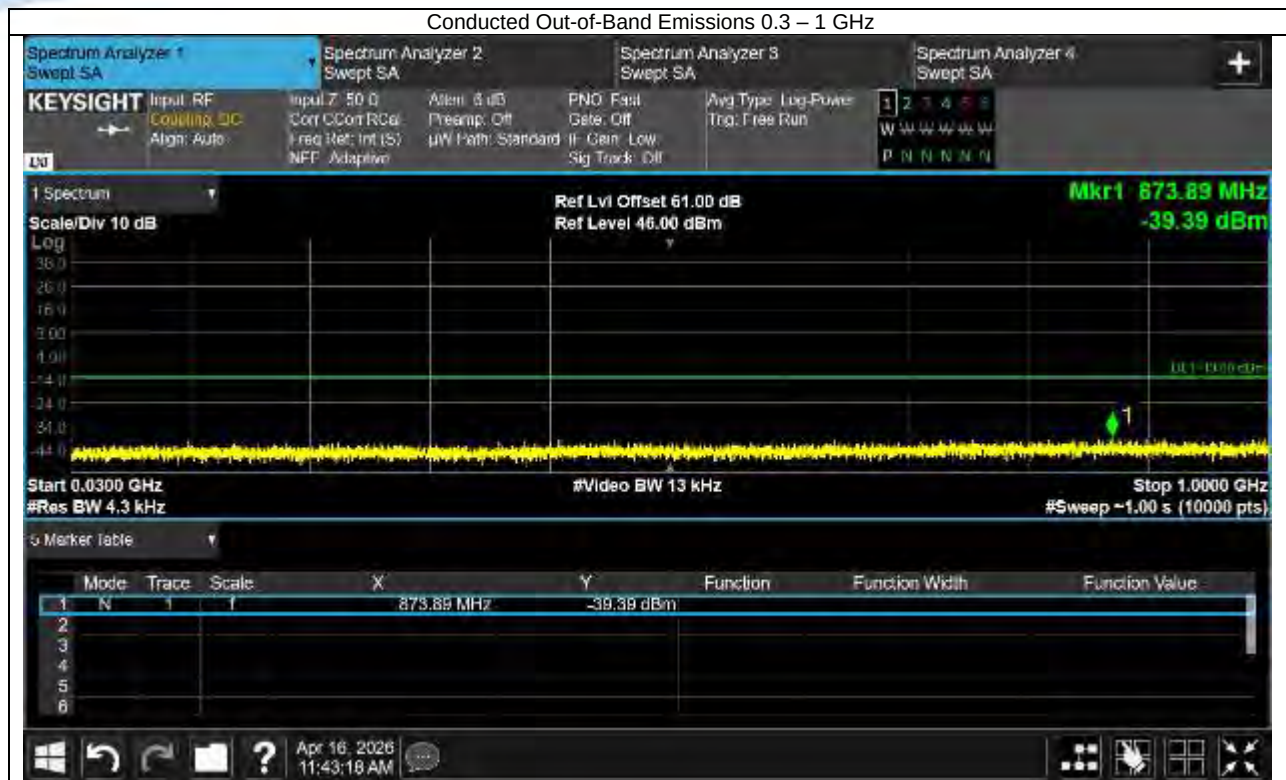
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	BPSK	Tested By:	SB
Engineering Test Notes:			

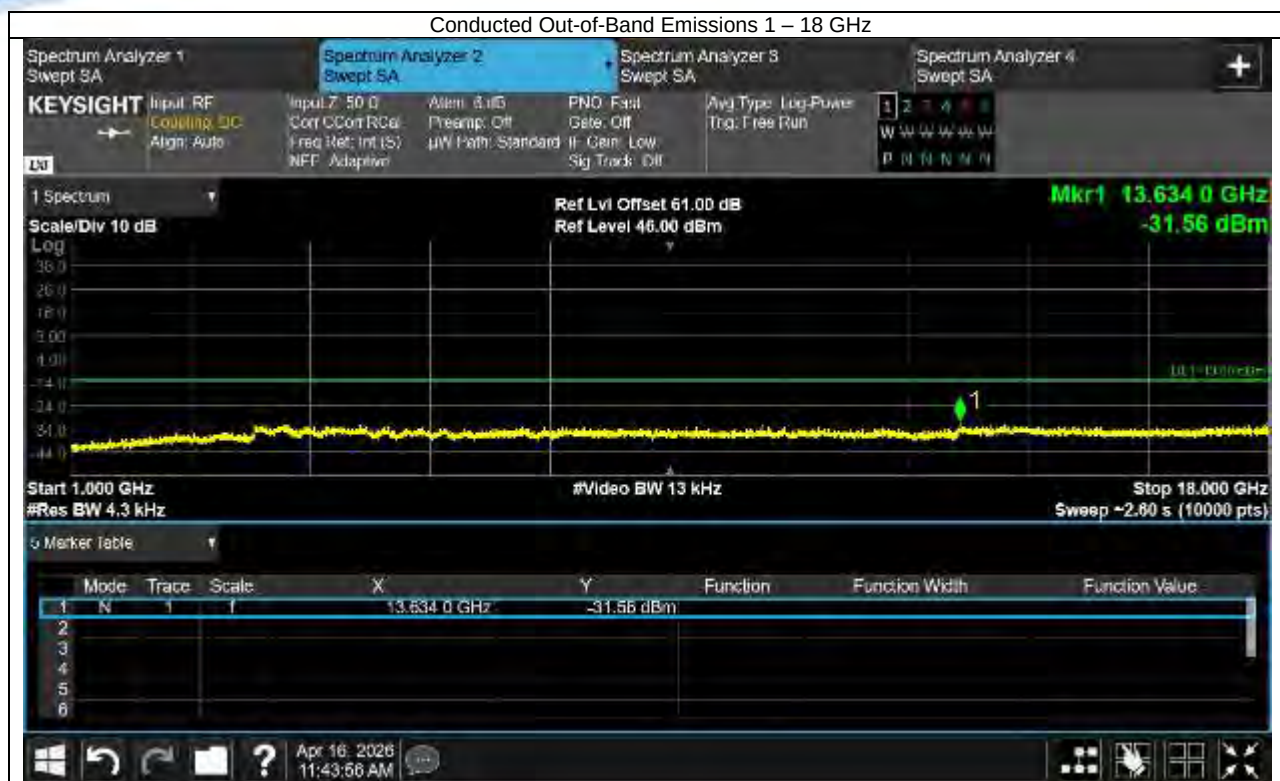
Test Measurement Results

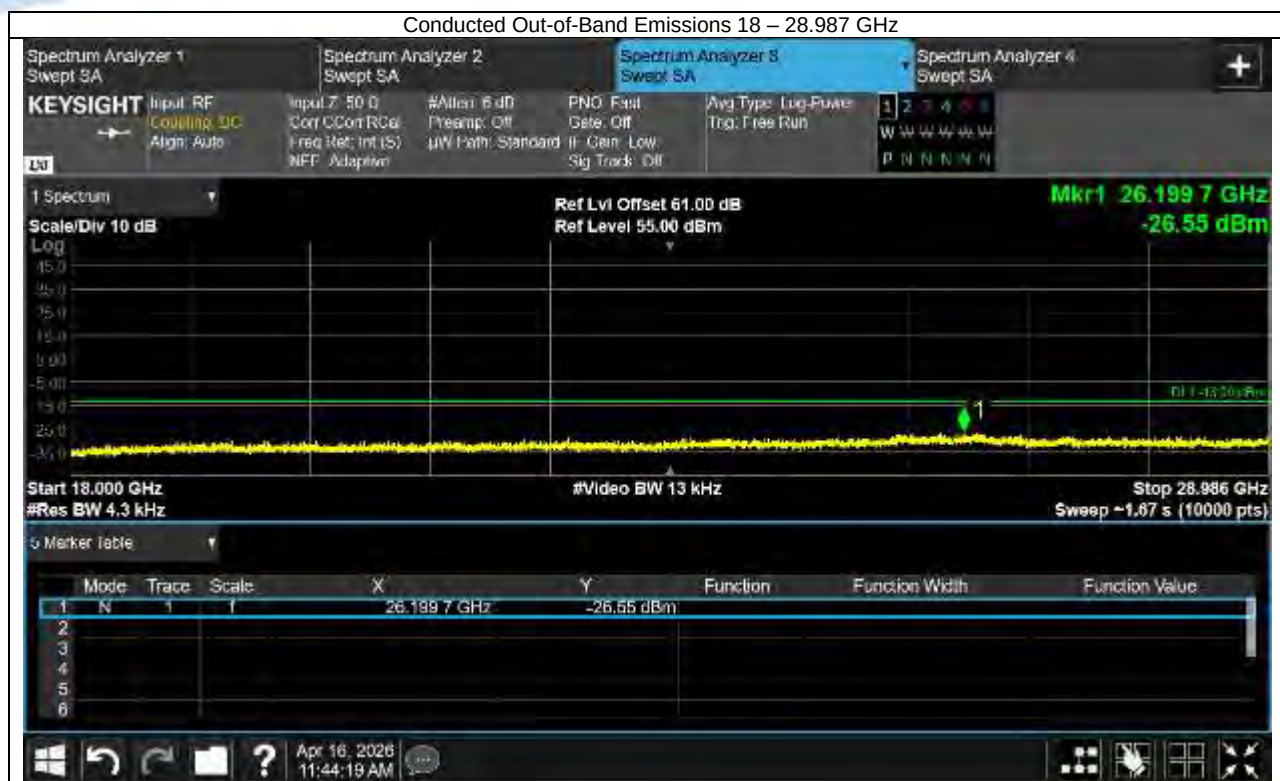
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 29003.525 MHz						
30MHz-1GHz	873.89	-39.39	--	-13.00	-26.39	Complies
1-18GHz	13634.00	-31.56	--	-13.00	-18.56	Complies
18-28.987GHz	26199.70	-26.55	--	-13.00	-13.55	Complies
29.021-40GHz	38350.80	-21.60	--	-13.00	-8.60	Complies
40-50GHz	49603.00	-49.88	--	-13.00	-36.88	Complies
50-75 GHz	58007.00	-49.71	-43.98	-13.00	-30.98	Complies
75-110GHz	86365.40	-62.04	--	-13.00	-49.04	Complies
110-140GHz	139755.05	-44.12	-30.76	-13.00	-17.76	Complies
140-150GHz	148293.05	-42.93	--	-13.00	-29.93	Complies

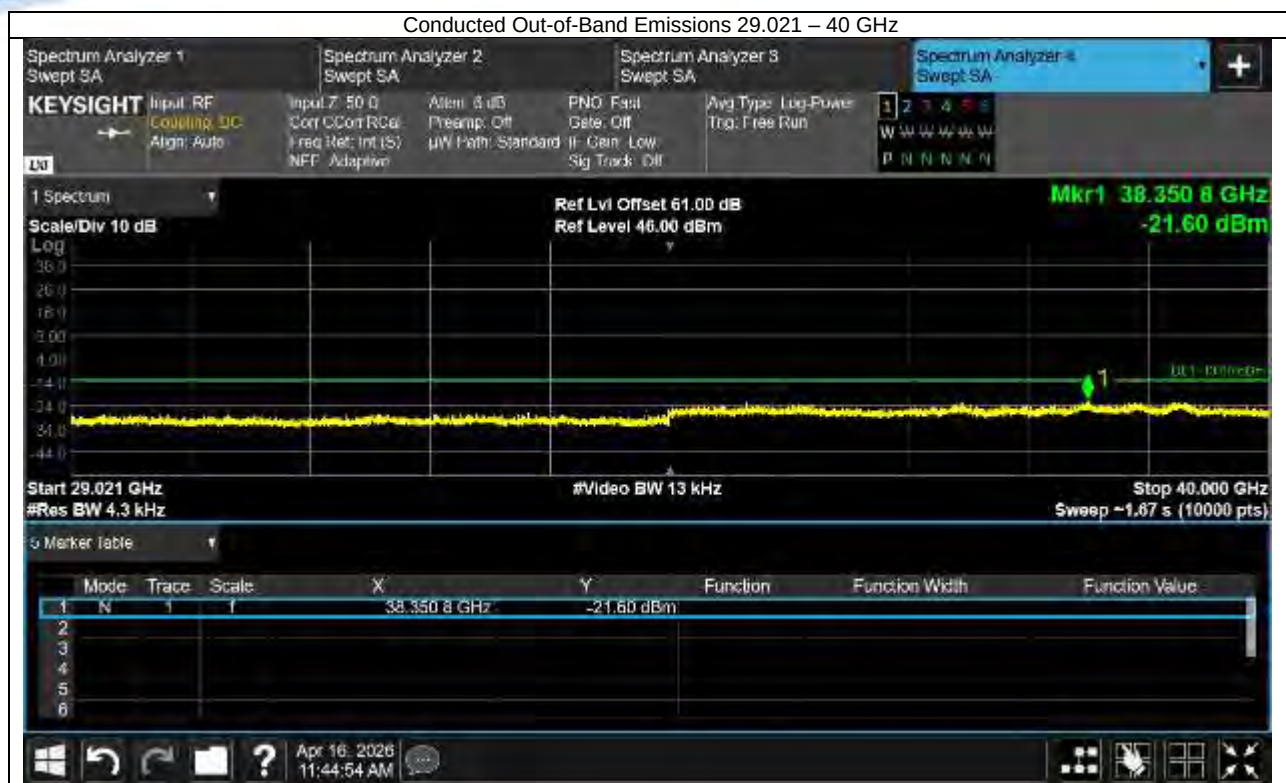
Traceability to Industry Recognized Test Methodologies

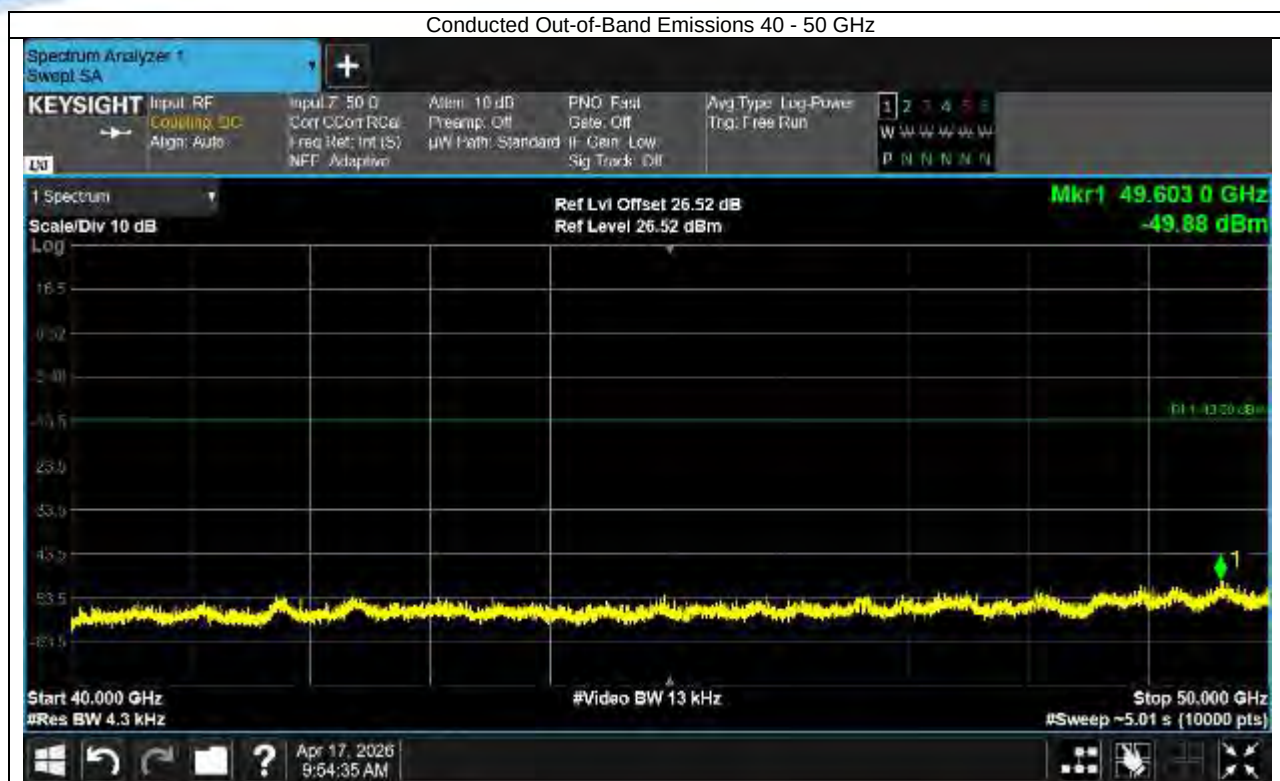
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ± 2.37 dB, > 40 GHz ± 4.6 dB

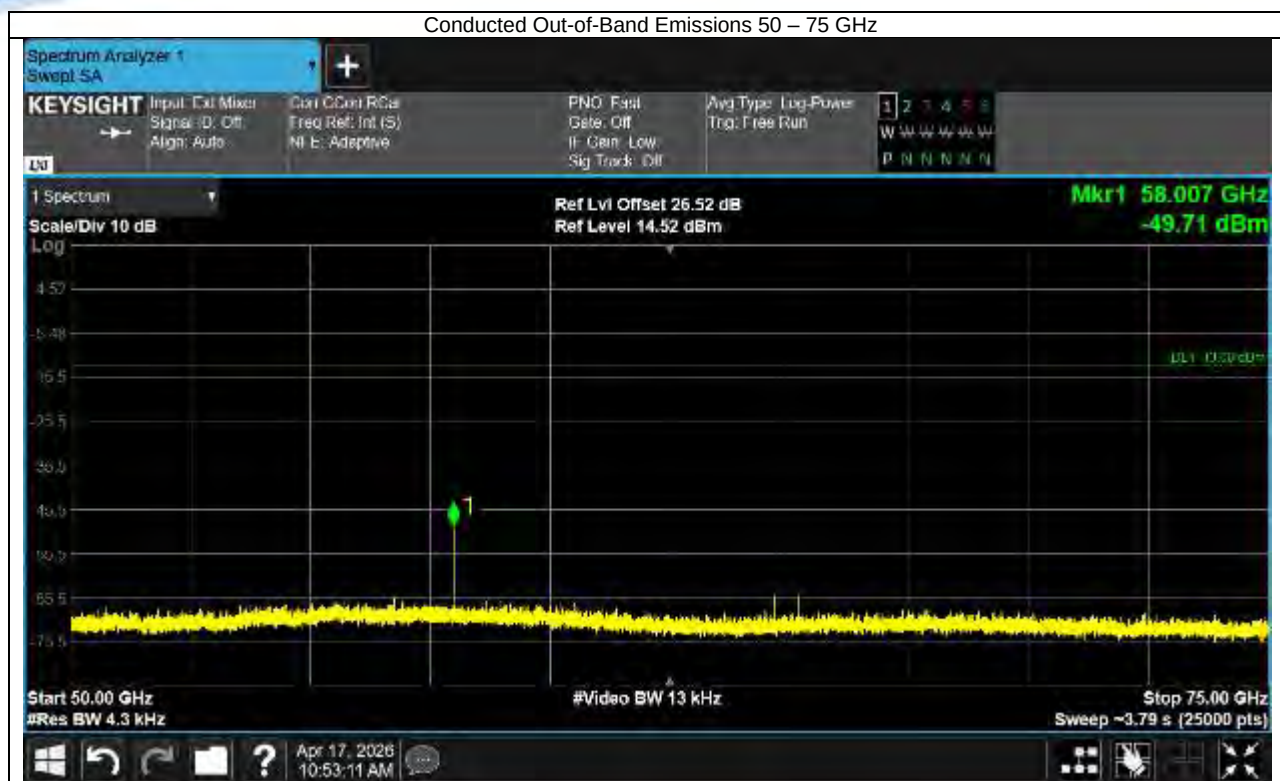


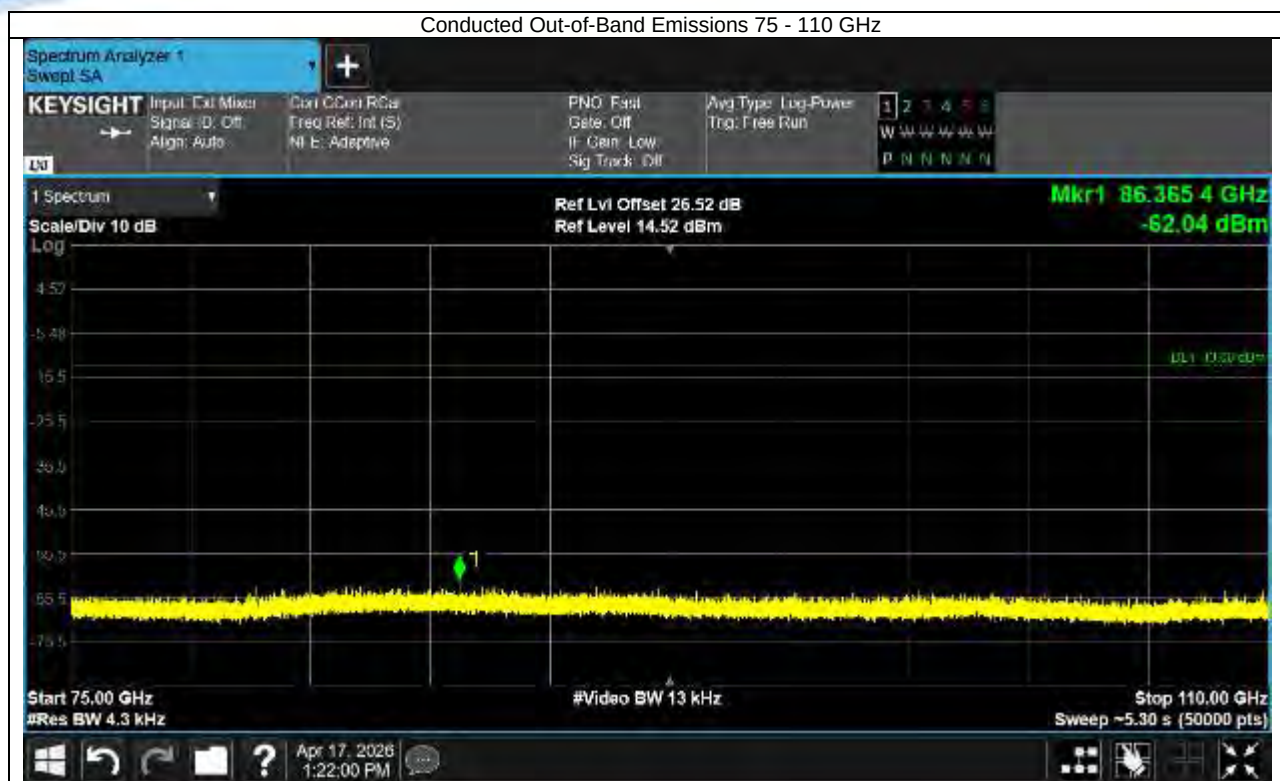




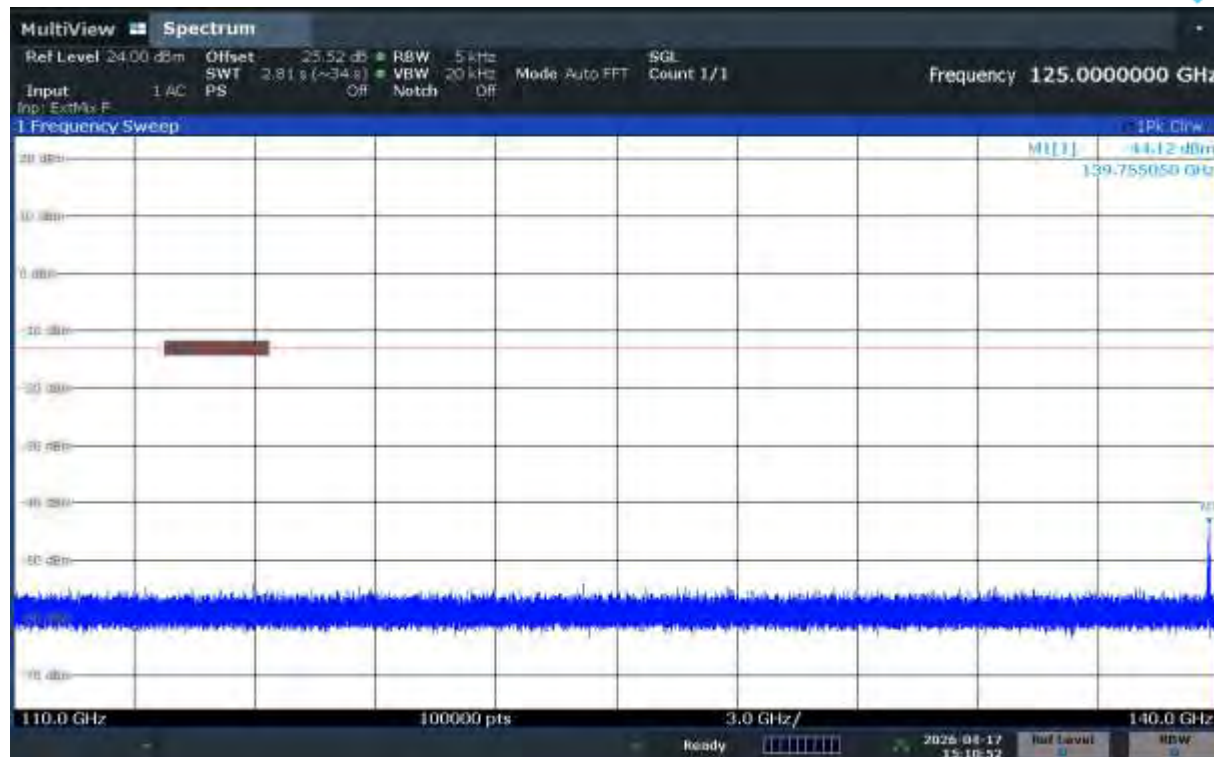






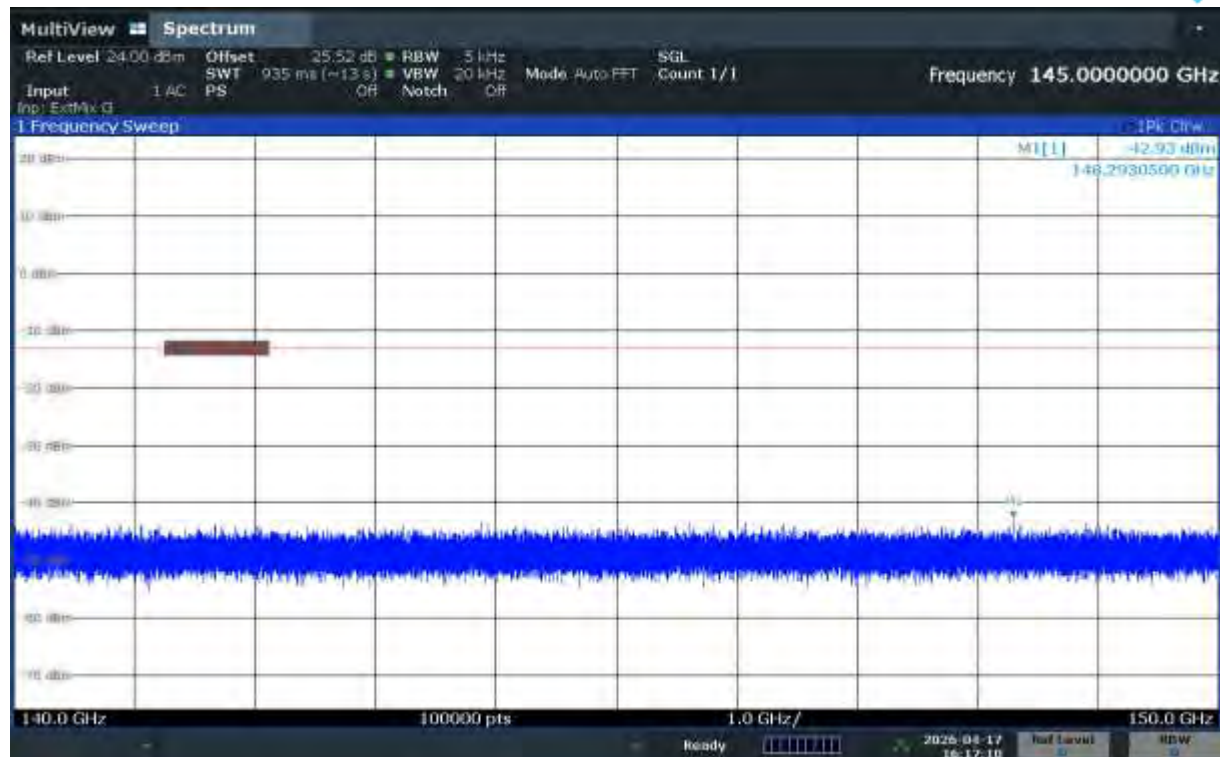


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:10:53

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:17:11

8.5.1.35. BPSK 7MHz High Band Mid Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

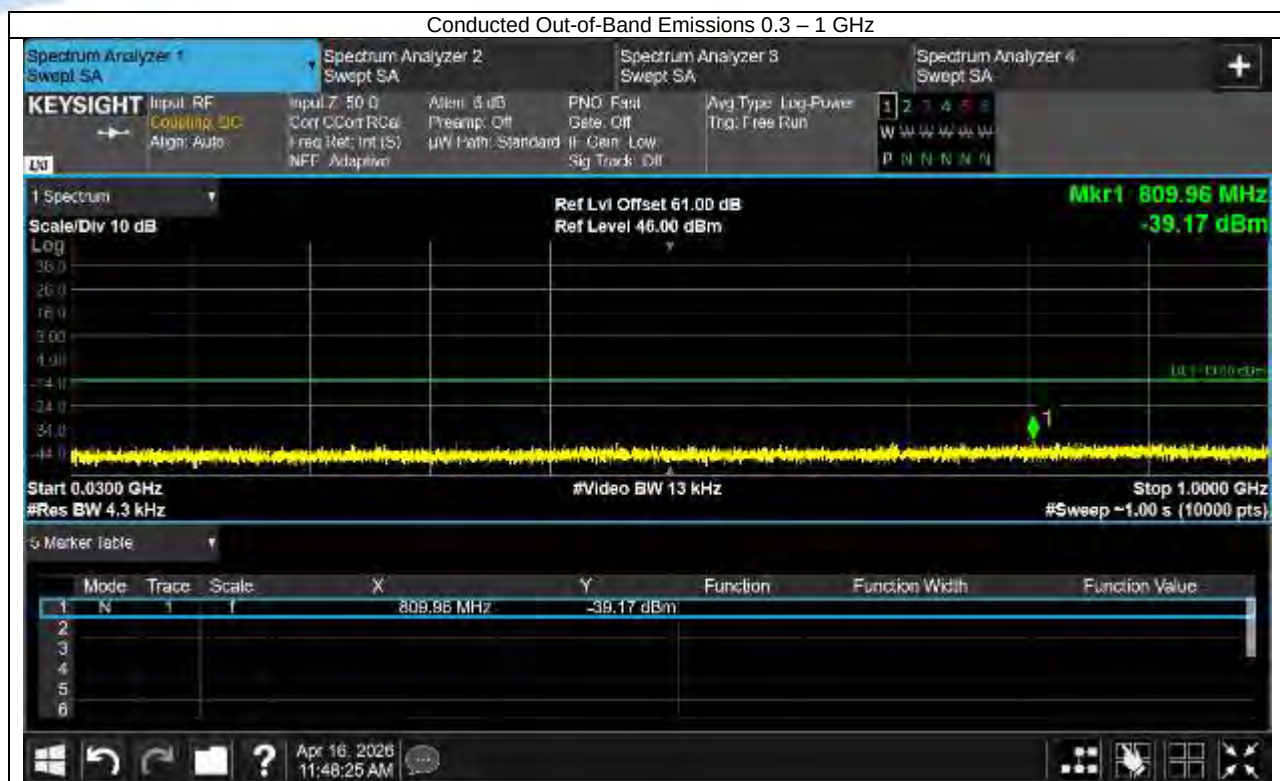
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	BPSK	Tested By:	SB
Engineering Test Notes:			

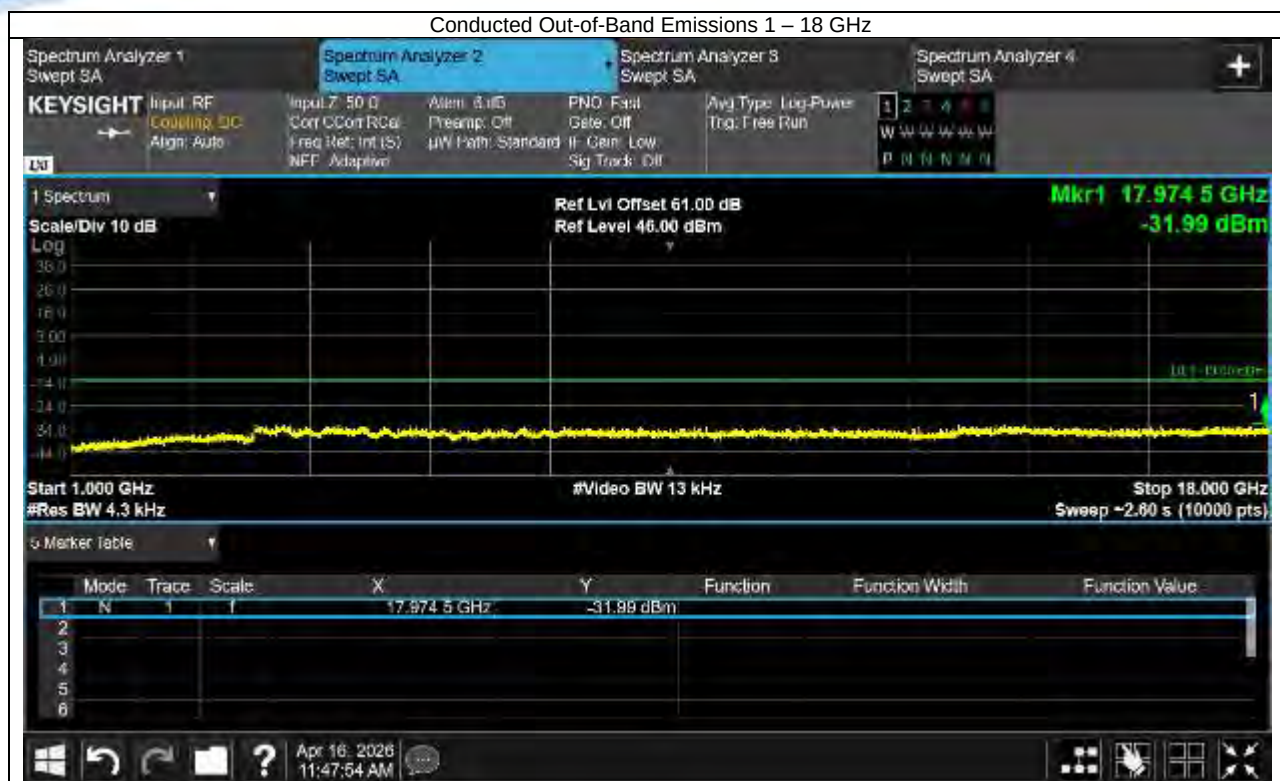
Test Measurement Results

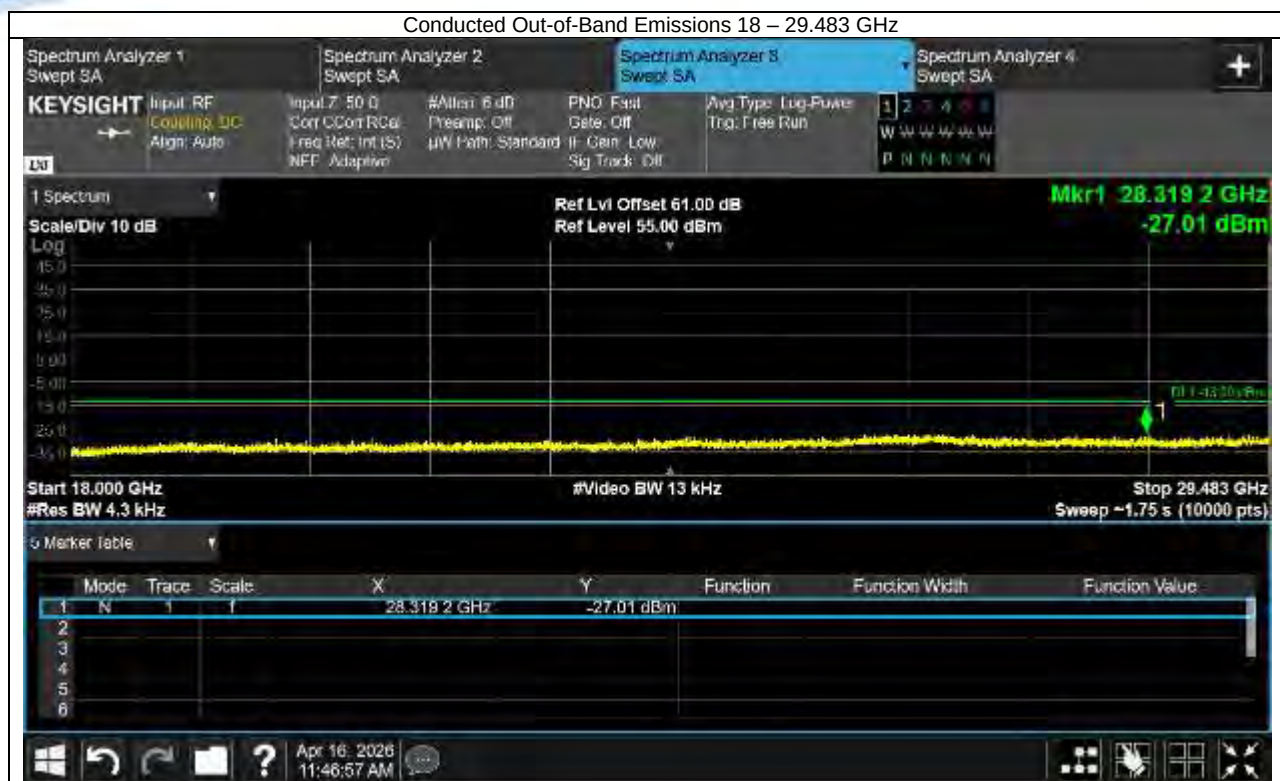
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 29500.00 MHz						
30MHz-1GHz	809.96	-39.17	--	-13.00	-26.17	Complies
1-18GHz	17974.50	-31.99	--	-13.00	-18.99	Complies
18-29.483GHz	28319.20	-27.01	--	-13.00	-14.01	Complies
29.518-40GHz	39207.40	-20.87	--	-13.00	-7.87	Complies
40-50GHz	49645.00	-49.42	--	-13.00	-36.42	Complies
50-75 GHz	59000.00	-44.55	-38.68	-13.00	-25.68	Complies
75-110GHz	87854.40	-56.16	--	-13.00	-43.16	Complies
110-140GHz	139755.05	-46.16	-32.80	-13.00	-19.80	Complies
140-150GHz	142641.95	-43.24	--	-13.00	-30.24	Complies

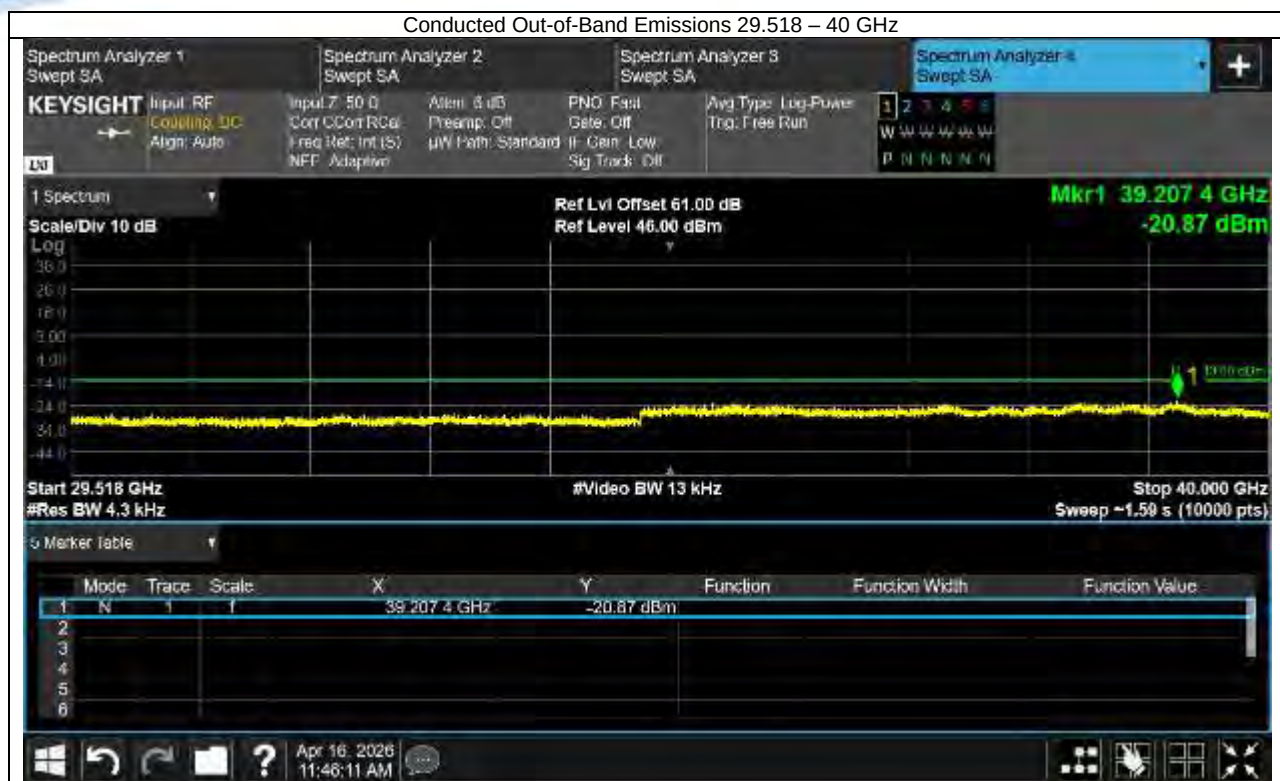
Traceability to Industry Recognized Test Methodologies

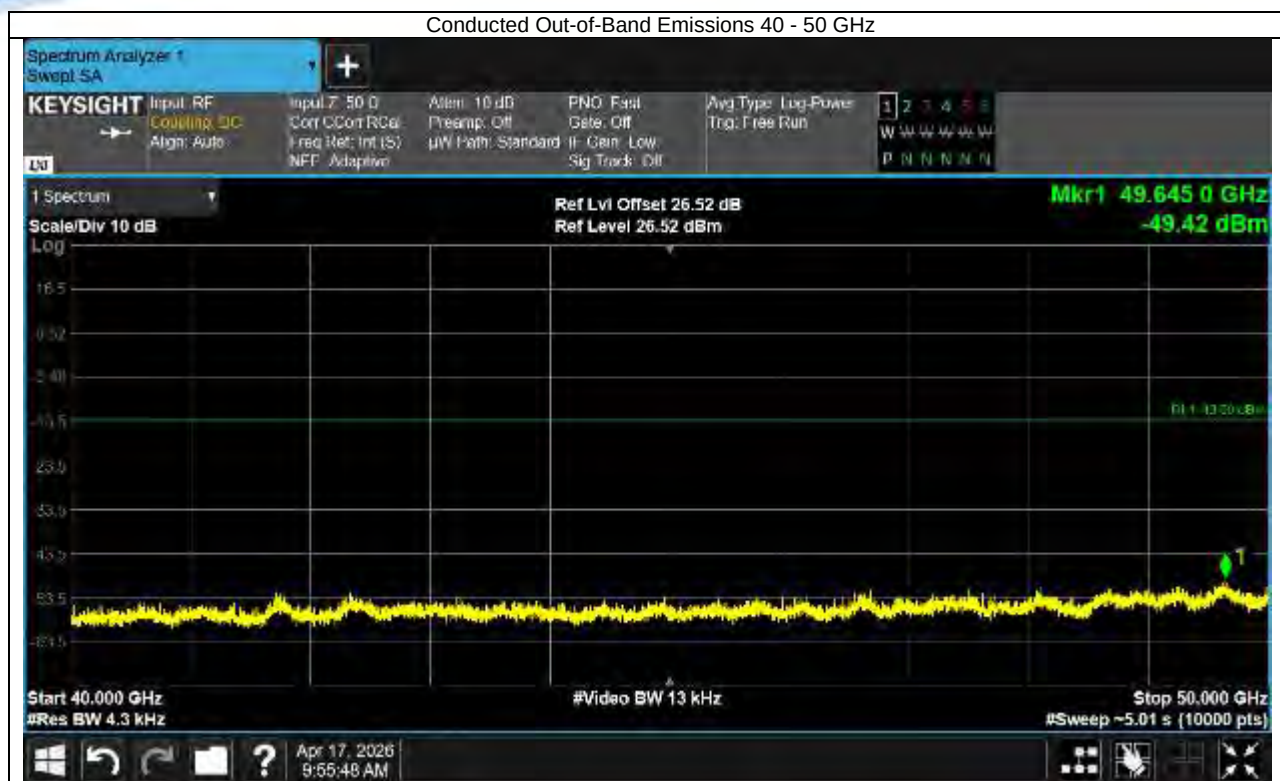
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ± 2.37 dB, > 40 GHz ± 4.6 dB

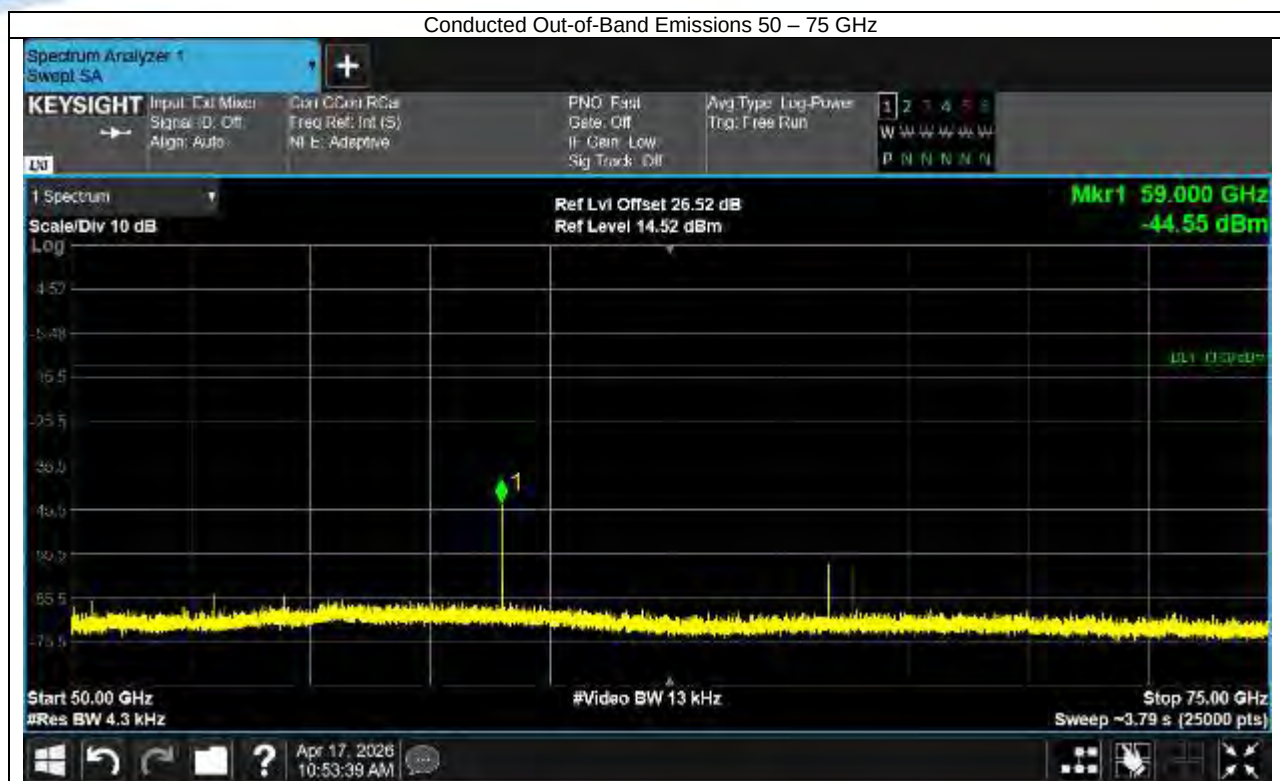


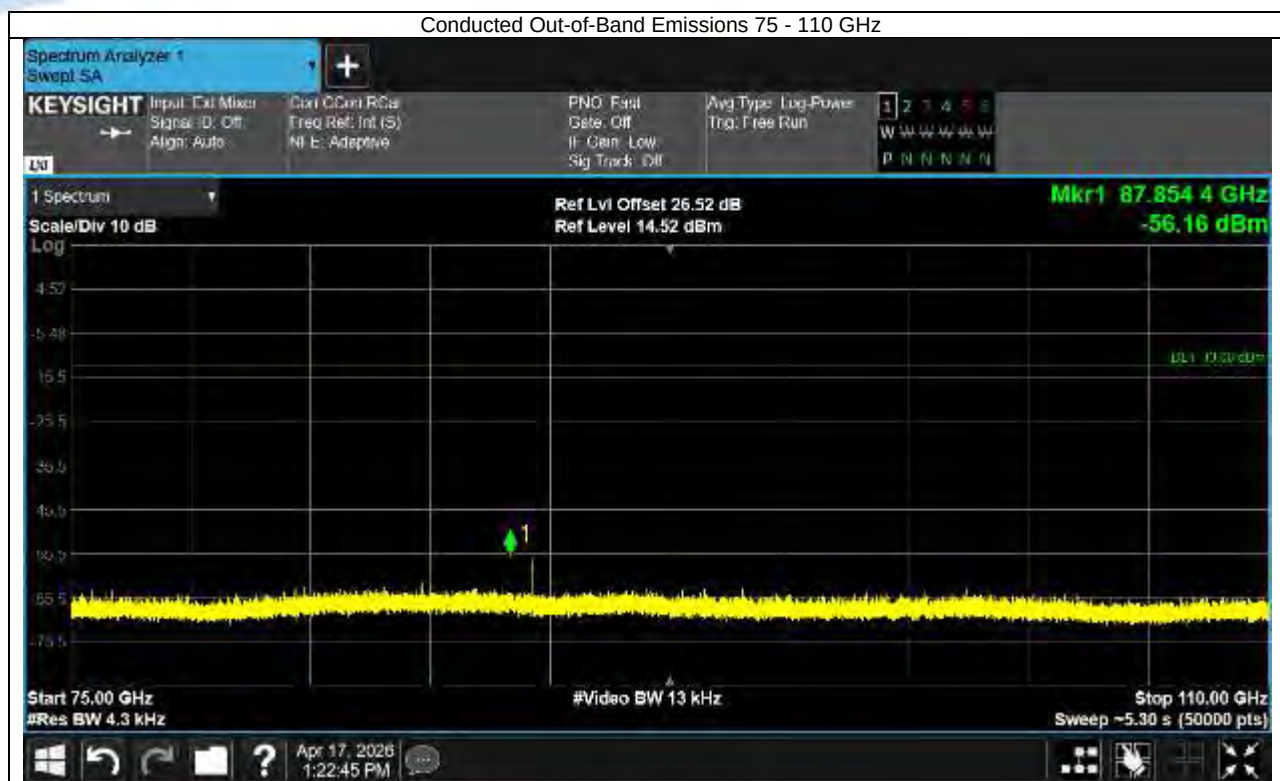




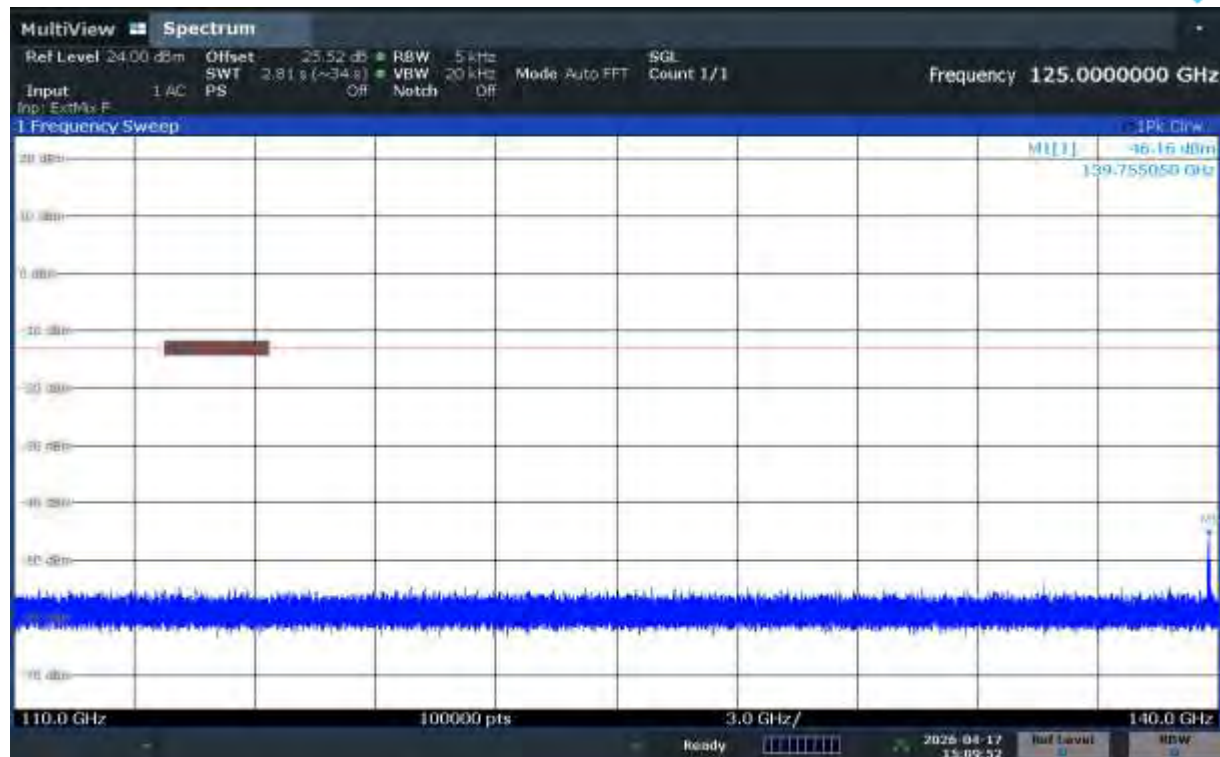






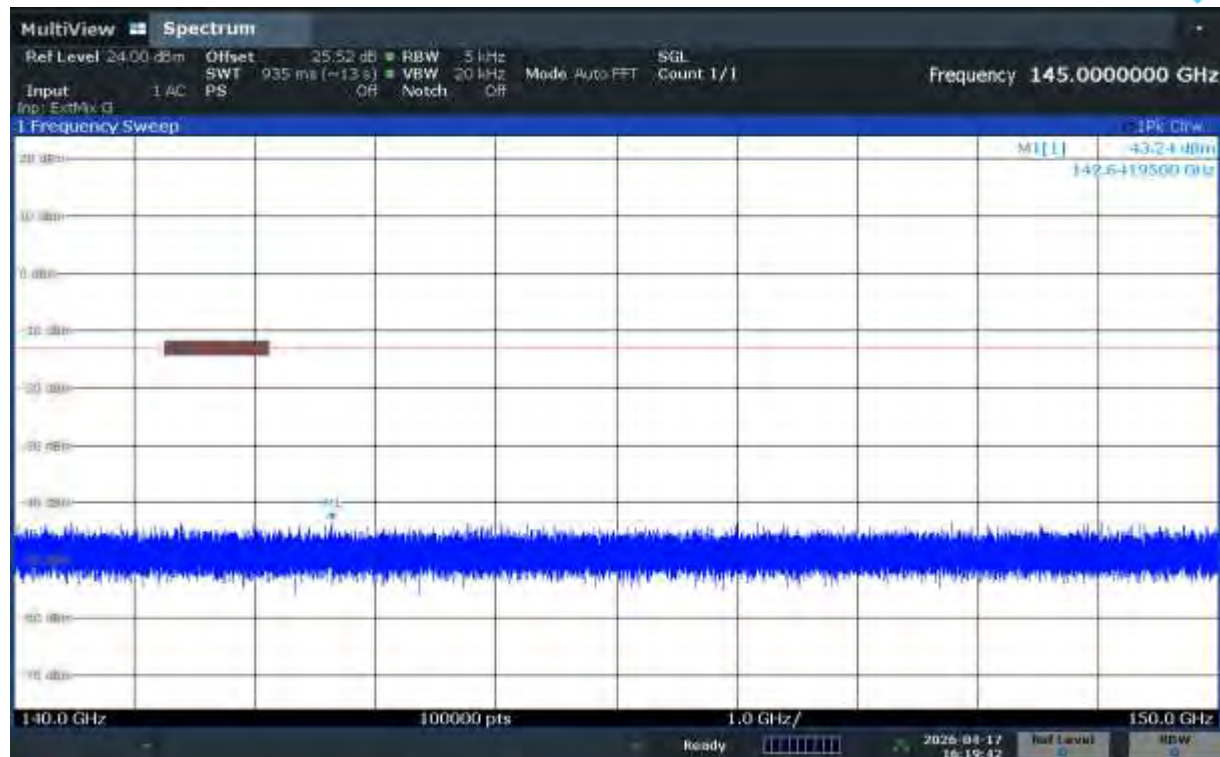


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:09:53

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:19:43

8.5.1.36. BPSK 7MHz High Band High Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

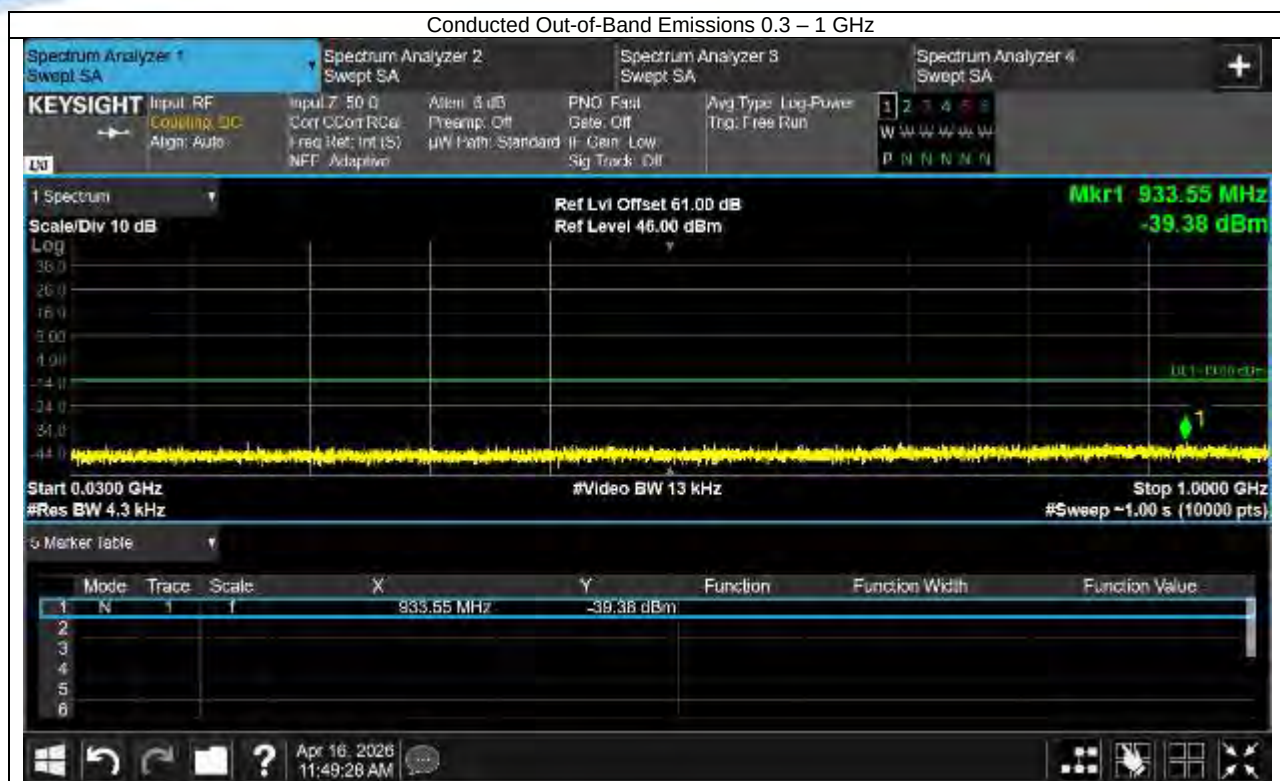
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	BPSK	Tested By:	SB
Engineering Test Notes:			

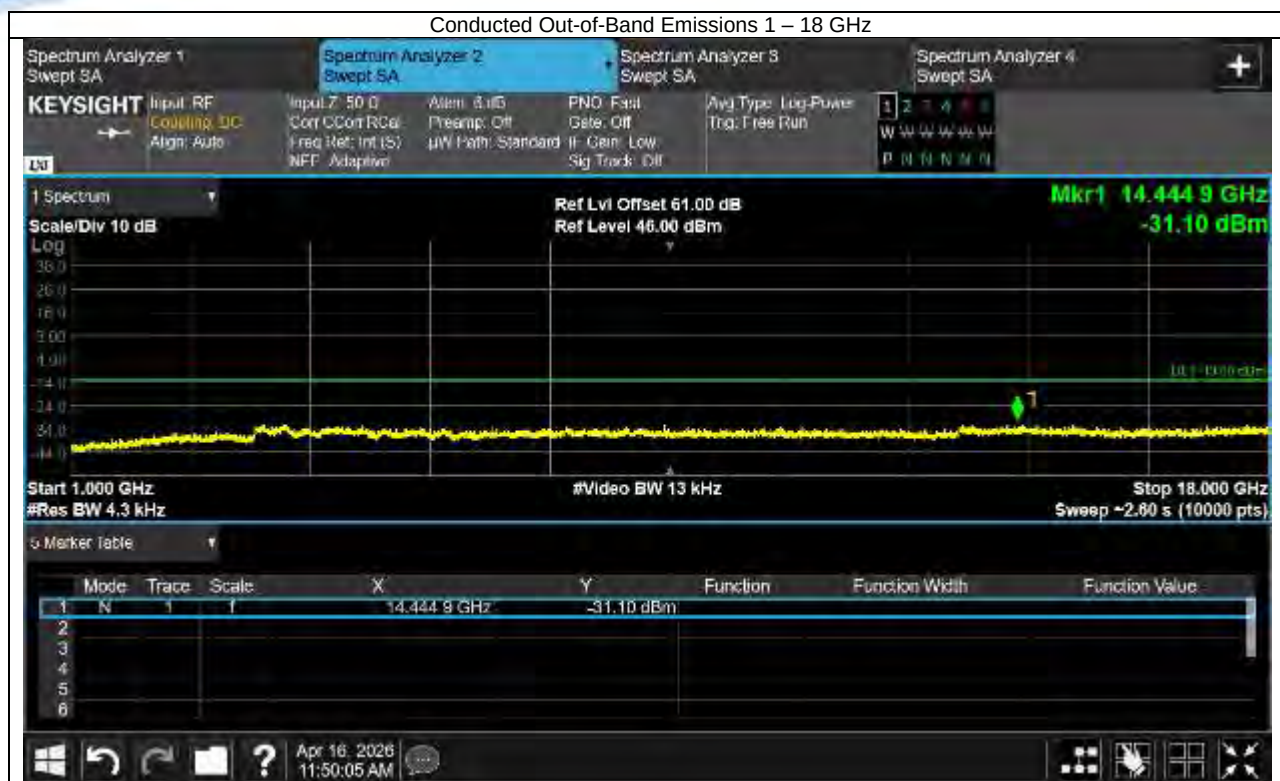
Test Measurement Results

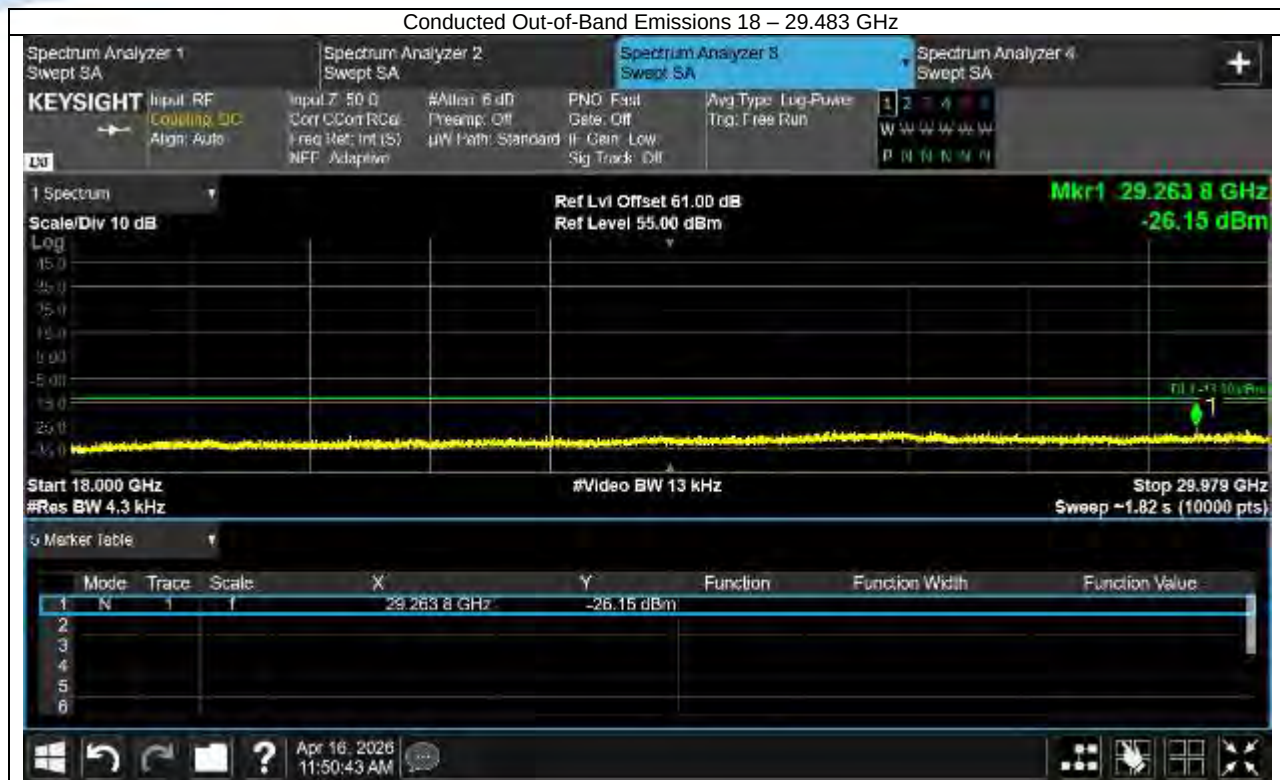
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 29996.475 MHz						
30MHz-1GHz	933.55	-39.38	--	-13.00	-26.38	Complies
1-18GHz	14444.90	-31.10	--	-13.00	-18.10	Complies
18-29.979GHz	29263.80	-26.15	--	-13.00	-13.15	Complies
30.014-40GHz	38643.80	-22.24	--	-13.00	-9.24	Complies
40-50GHz	49605.00	-49.33	--	-13.00	-36.33	Complies
50-75 GHz	59993.00	-47.71	-41.69	-13.00	-28.69	Complies
75-110GHz	89344.00	-53.11	--	-13.00	-40.11	Complies
110-140GHz	118493.34	-54.02	-42.09	-13.00	-29.09	Complies
140-150GHz	148650.25	-42.88	--	-13.00	-29.88	Complies

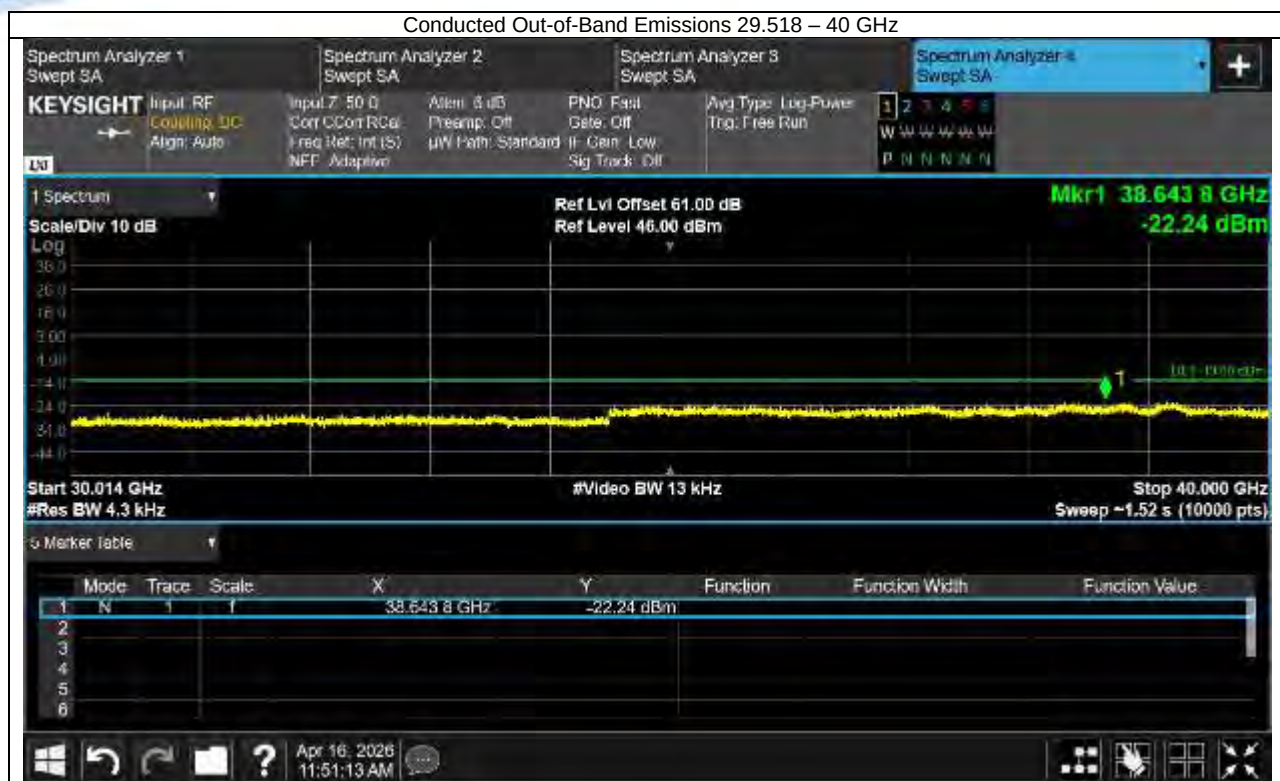
Traceability to Industry Recognized Test Methodologies

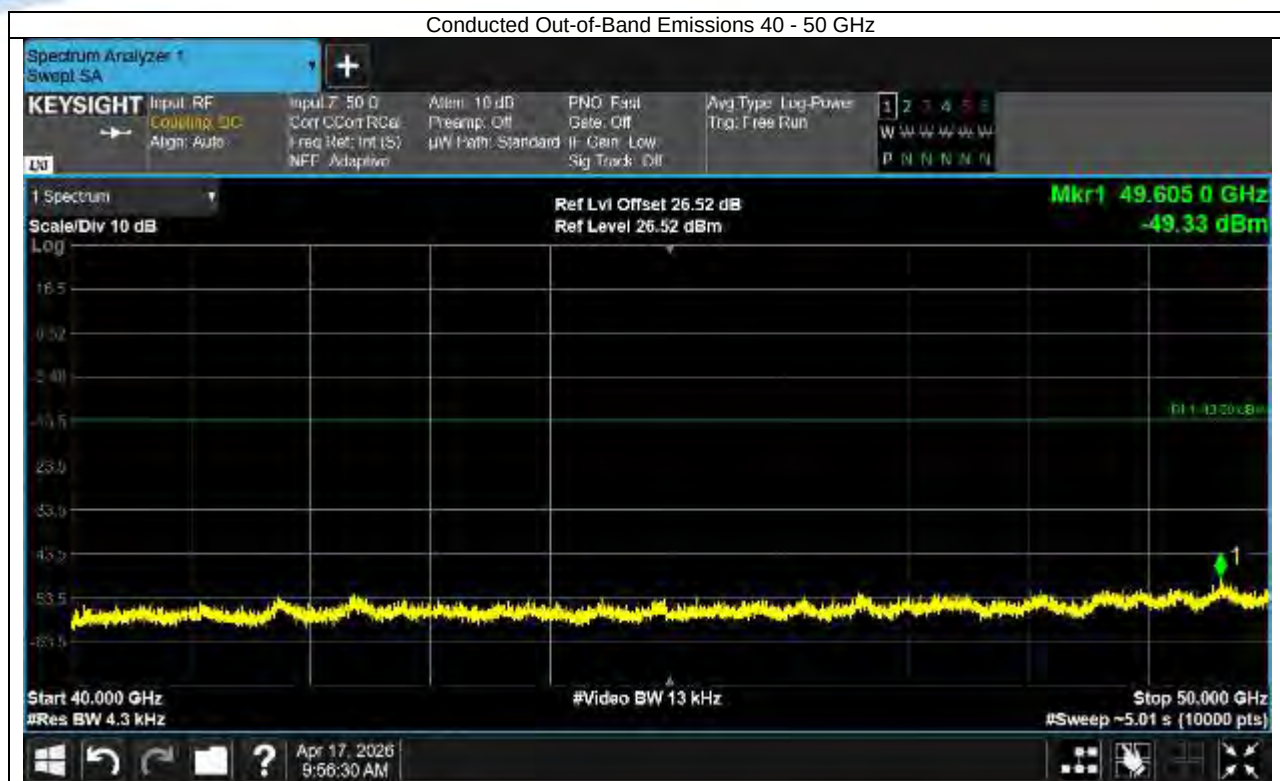
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ± 2.37 dB, > 40 GHz ± 4.6 dB

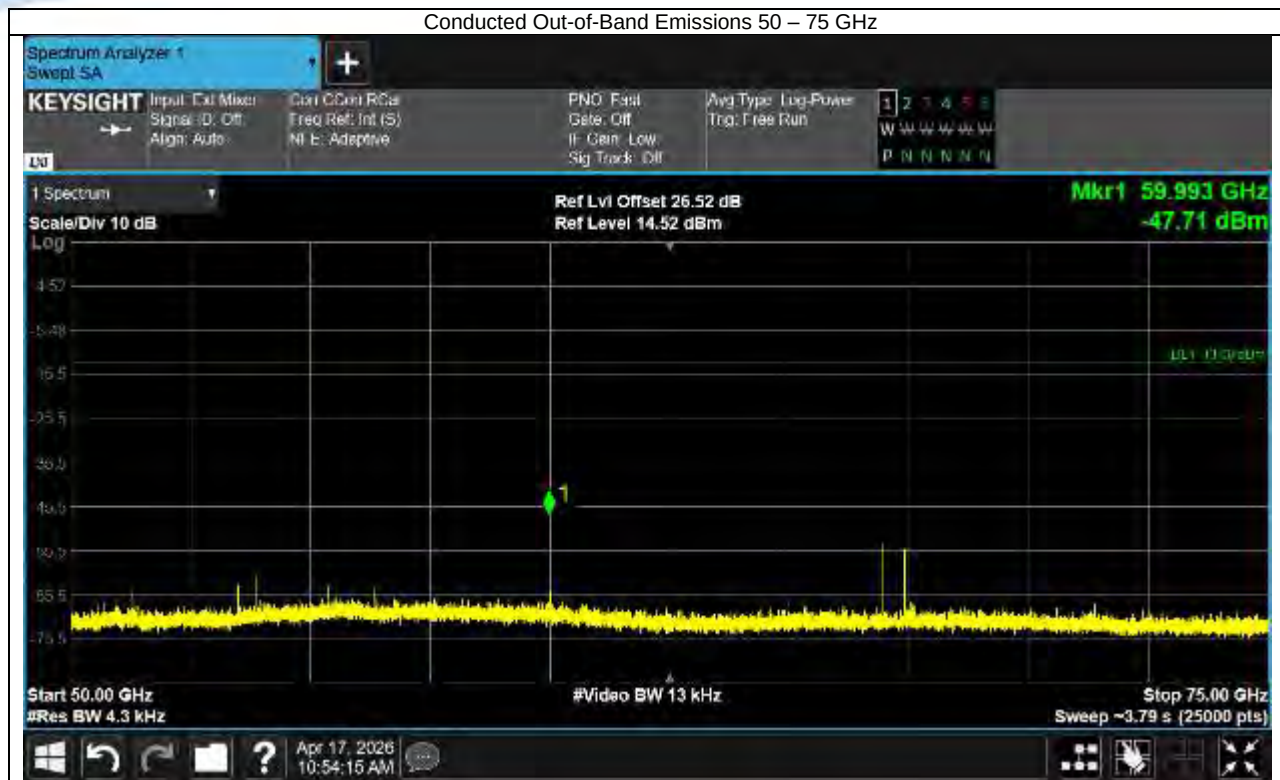






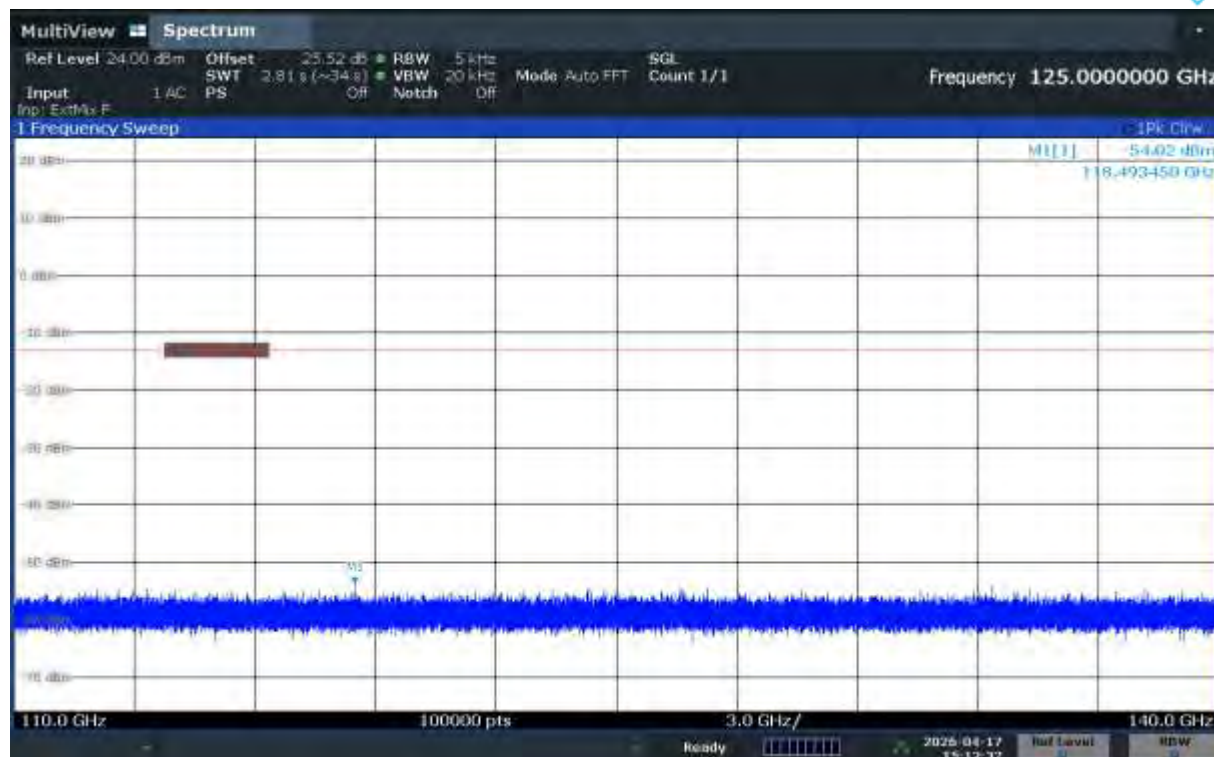






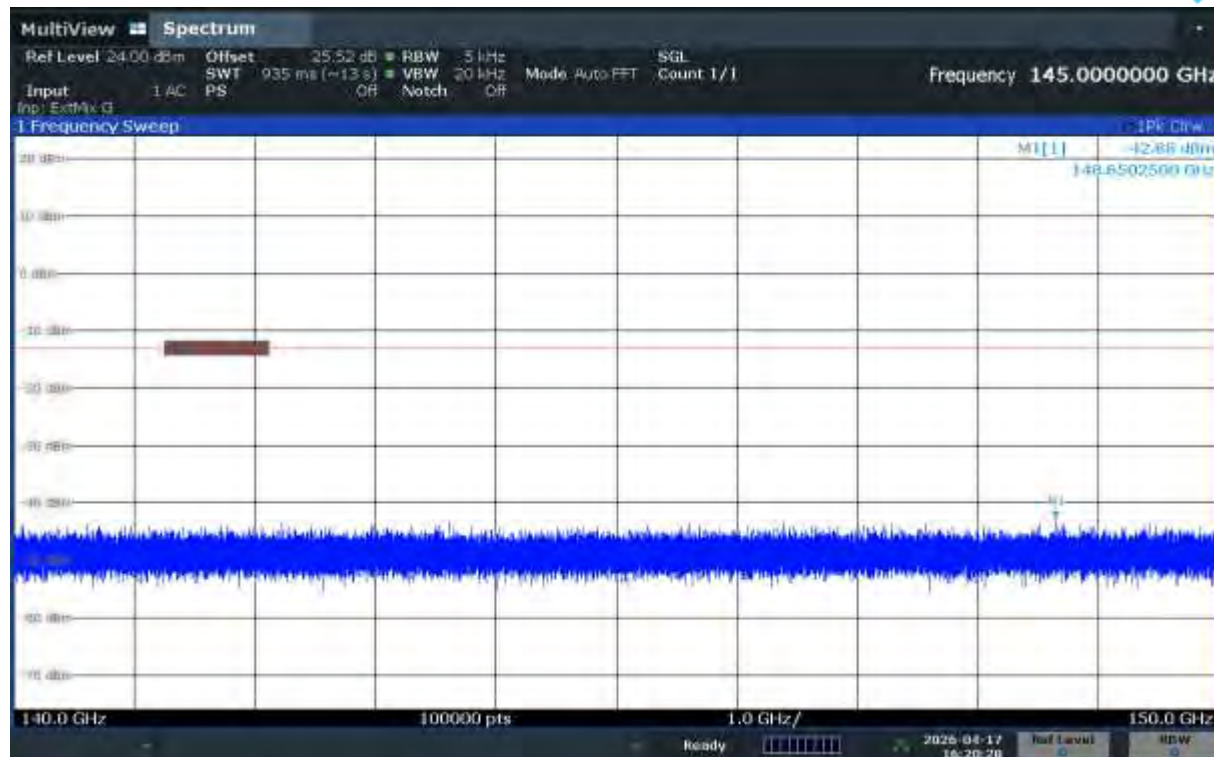


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:12:33

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:20:29

8.5.2. 8PSK

8.5.2.37. 8PSK 650KHz Low Band Low Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

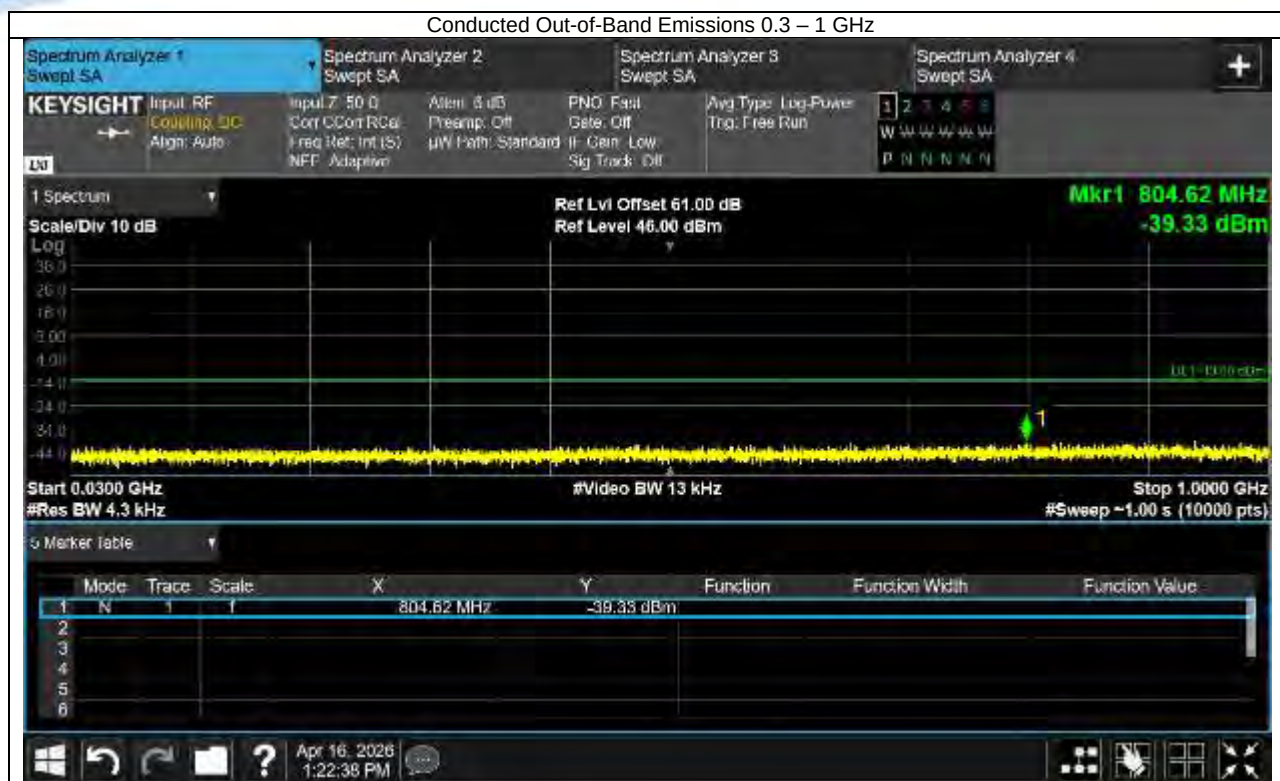
Variant:	650 KHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

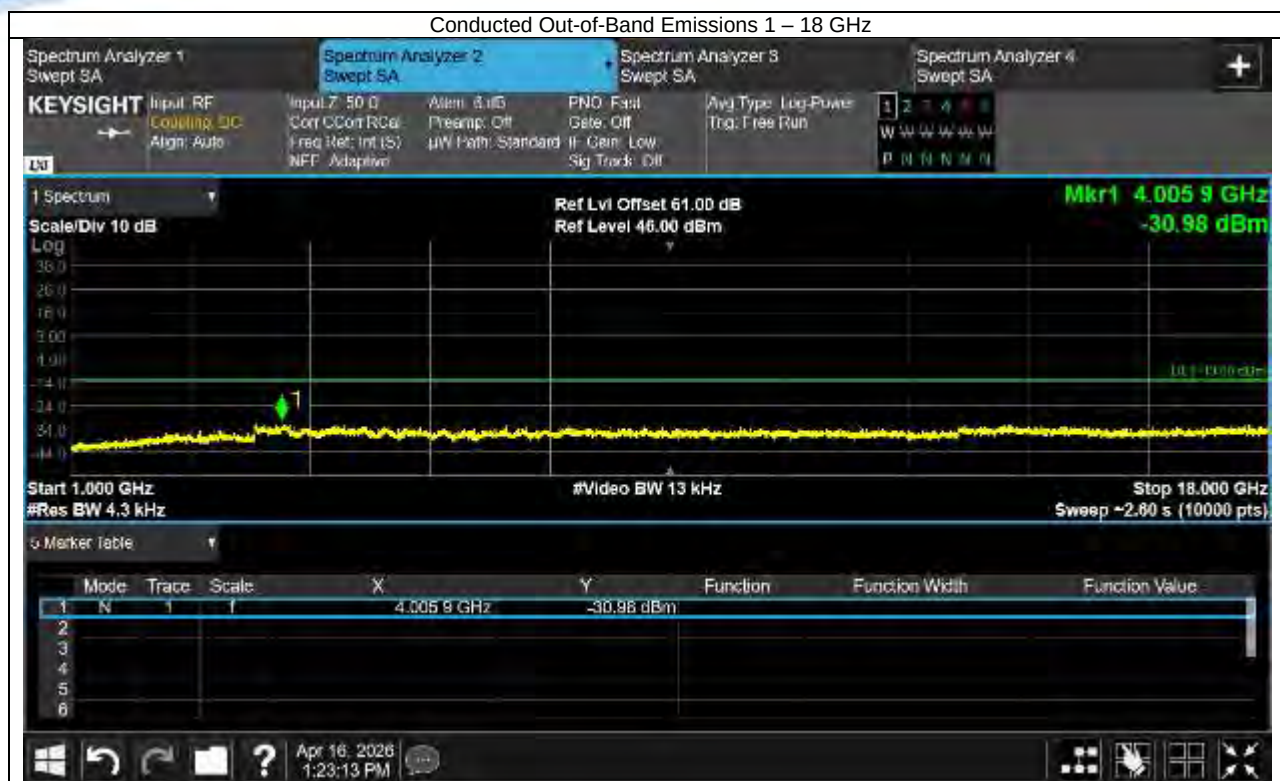
Test Measurement Results

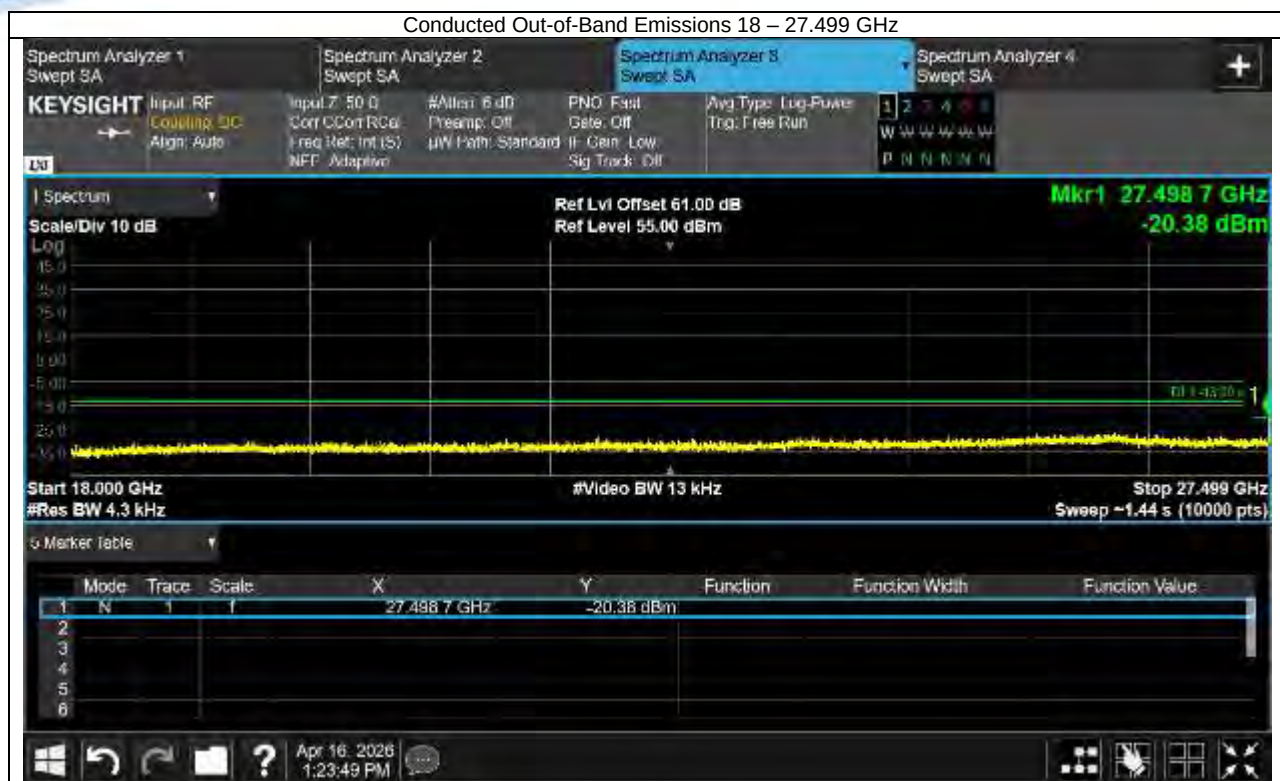
Temperature: 20 °C	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Voltage: 115 Vac, 60 Hz						
Test Frequency: 27500.324 MHz						
30MHz-1GHz	804.62	-39.33	--	-13.00	-26.33	Complies
1-18GHz	4005.90	-30.98	--	-13.00	-17.98	Complies
18-27.499GHz	27498.70	-20.38	--	-13.00	-7.38	Complies
27.501-40GHz	27501.90	-15.45	--	-13.00	-2.45	Complies
40-50GHz	49242.90	-49.73	--	-13.00	-36.73	Complies
50-75 GHz	55000.00	-59.33	-54.07	-13.00	-41.07	Complies
75-110GHz	109248.90	-61.78	--	-13.00	-48.78	Complies
110-140GHz	132234.95	-26.66	-13.78	-13.00	-0.78	Complies
140-150GHz	140916.95	-40.83	--	-13.00	-27.83	Complies

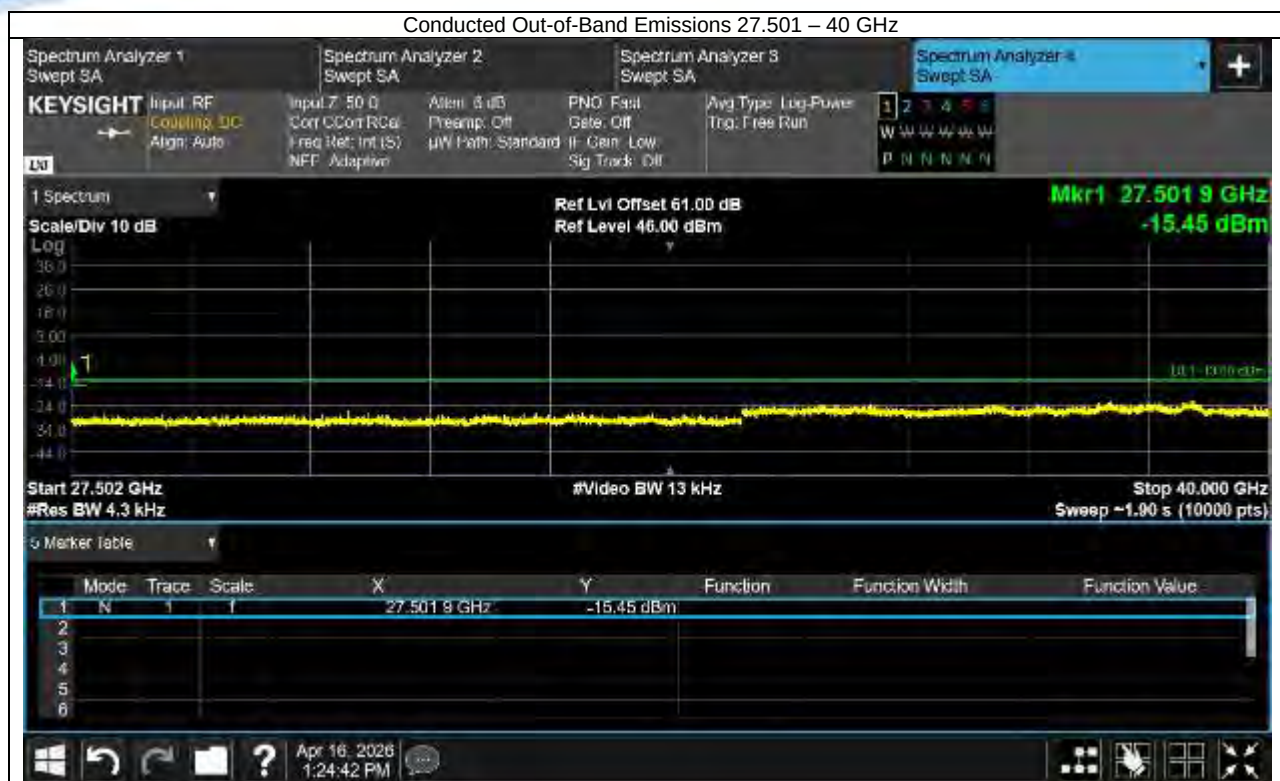
Traceability to Industry Recognized Test Methodologies

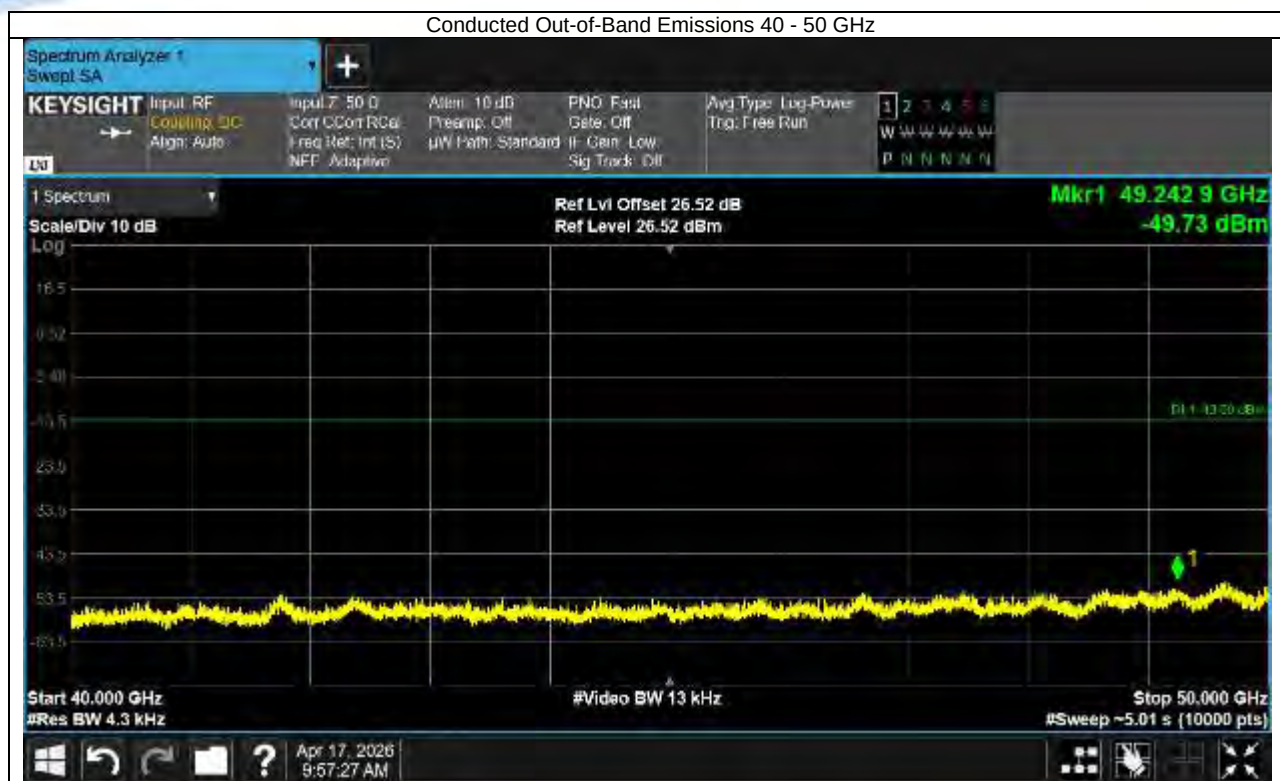
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

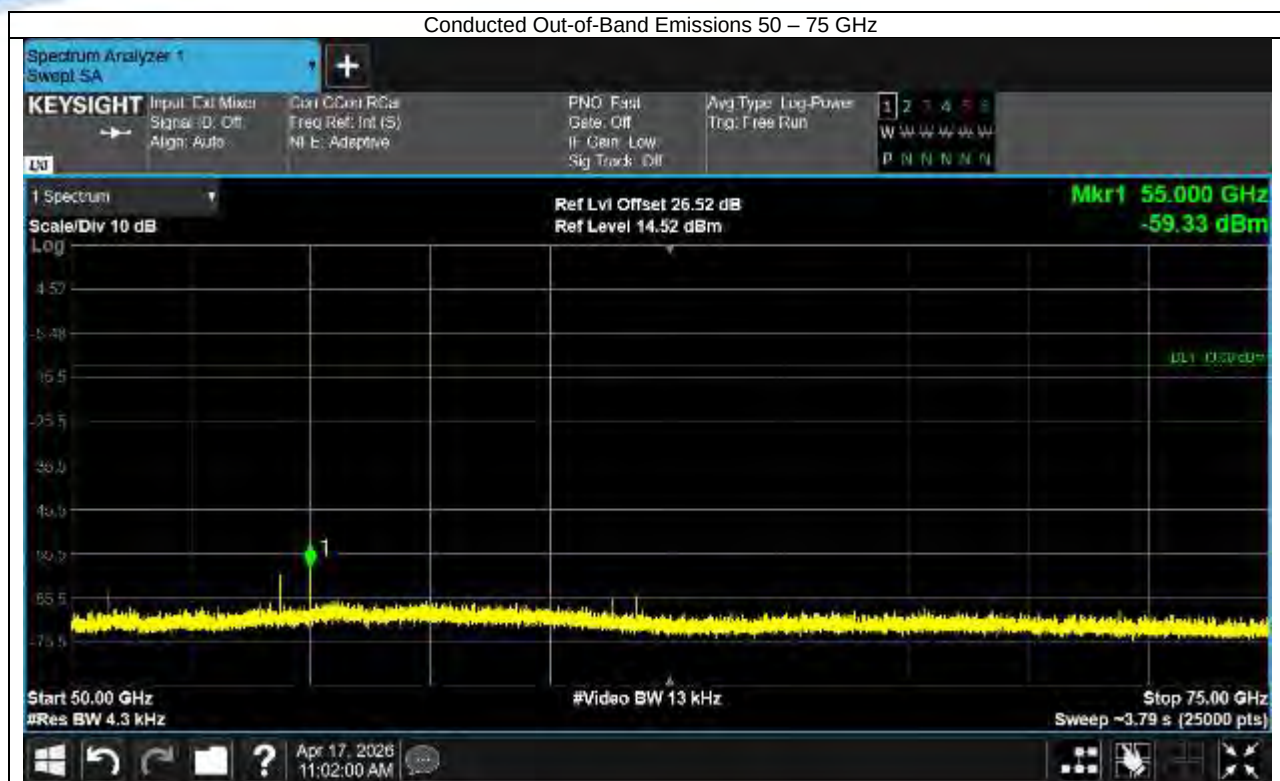


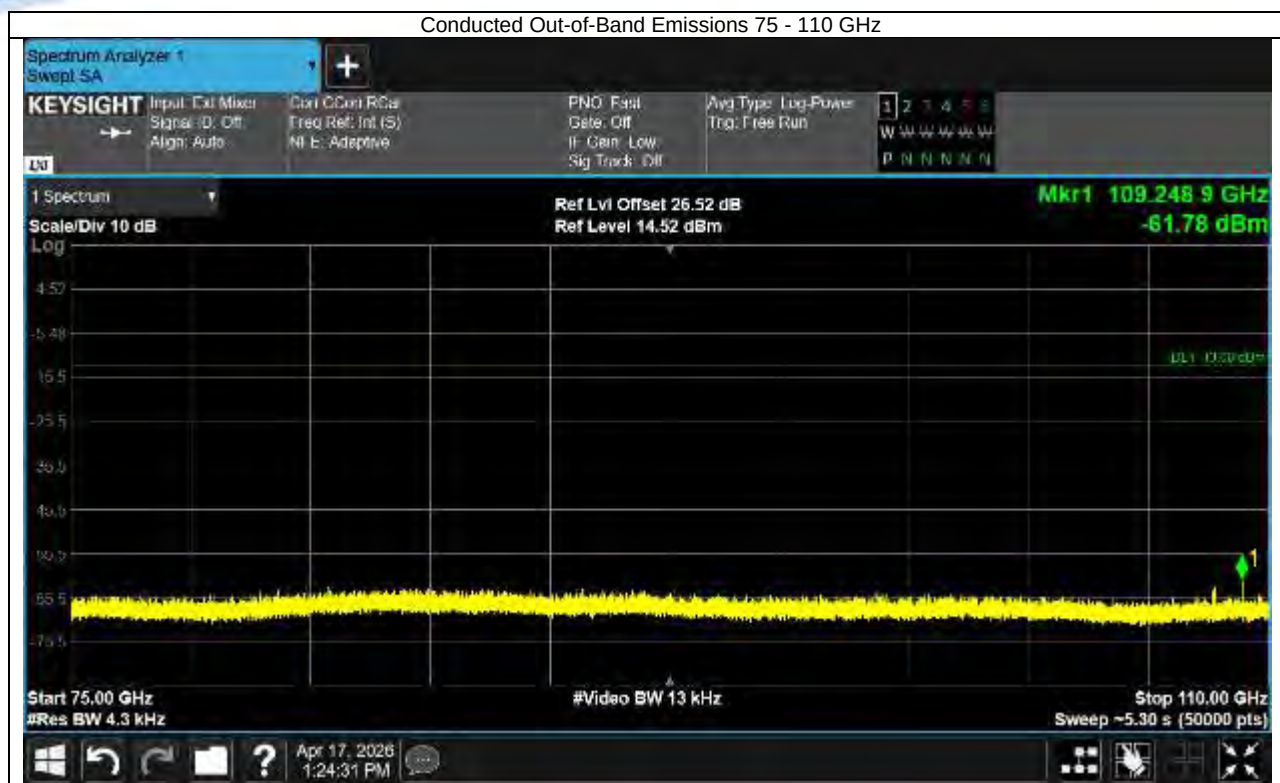




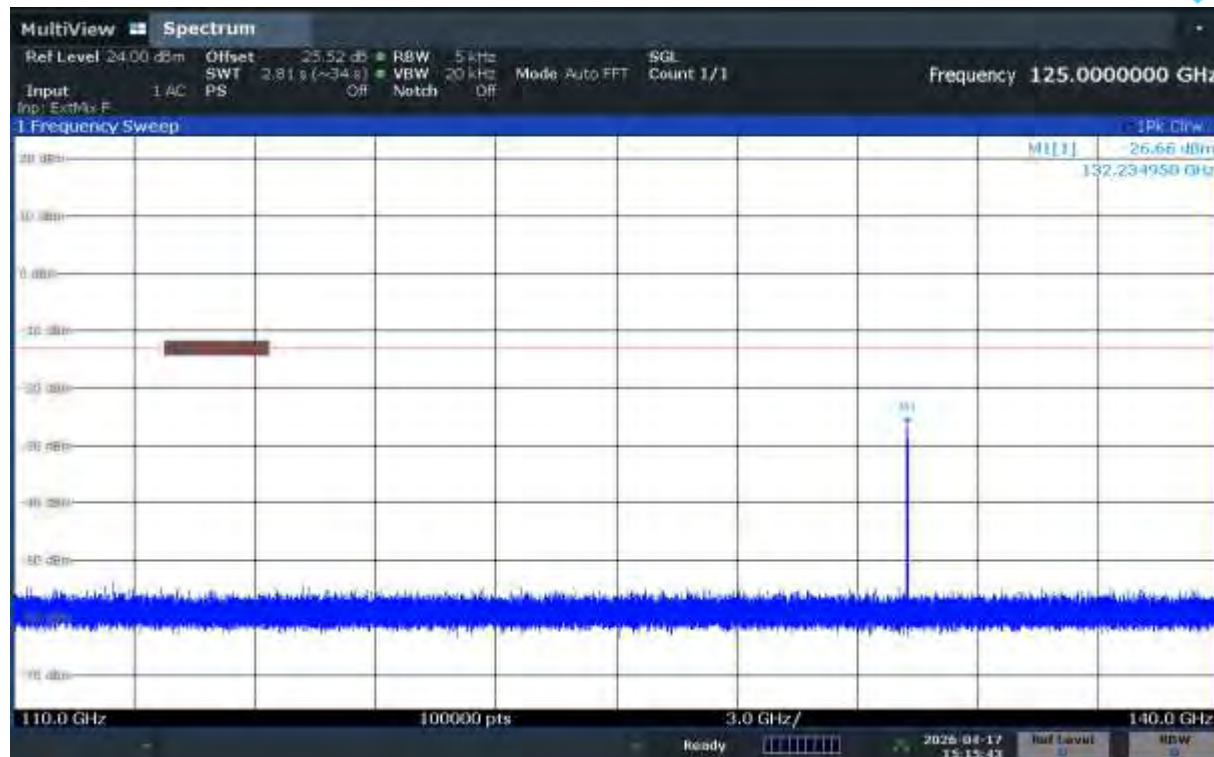






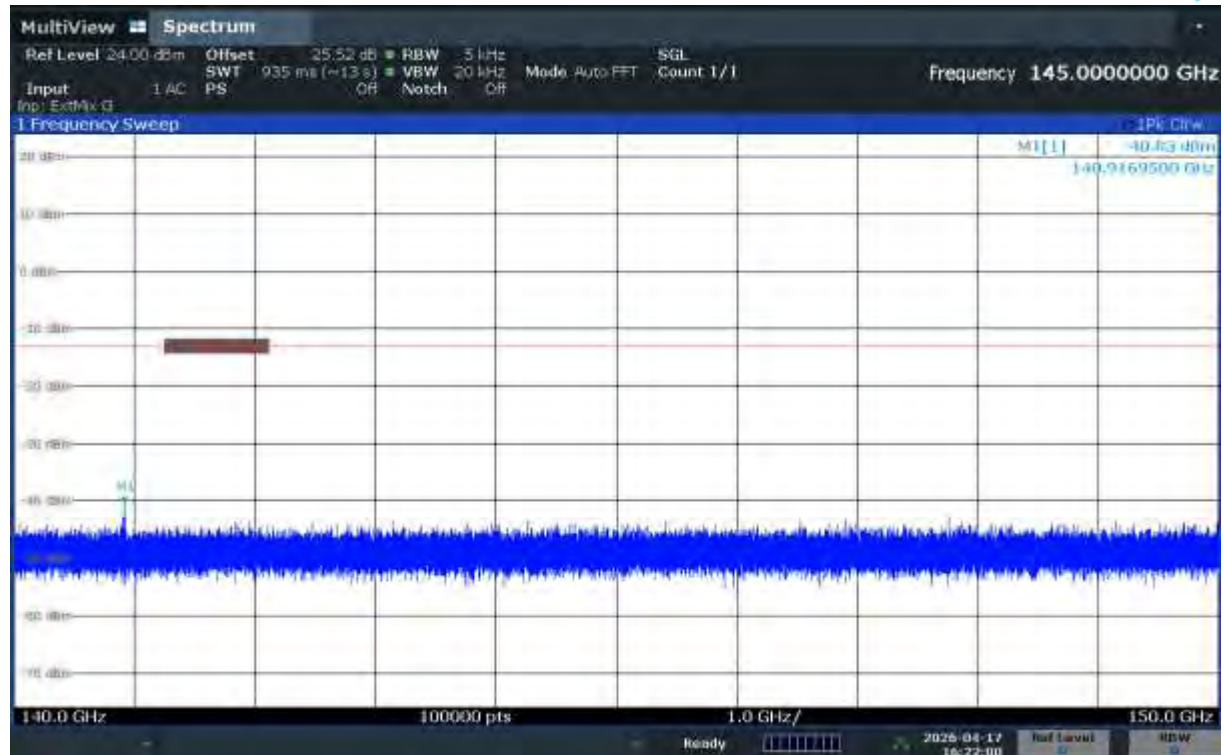


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:15:44

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:22:01

8.5.2.38. 8PSK 650KHz Low Band Mid Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

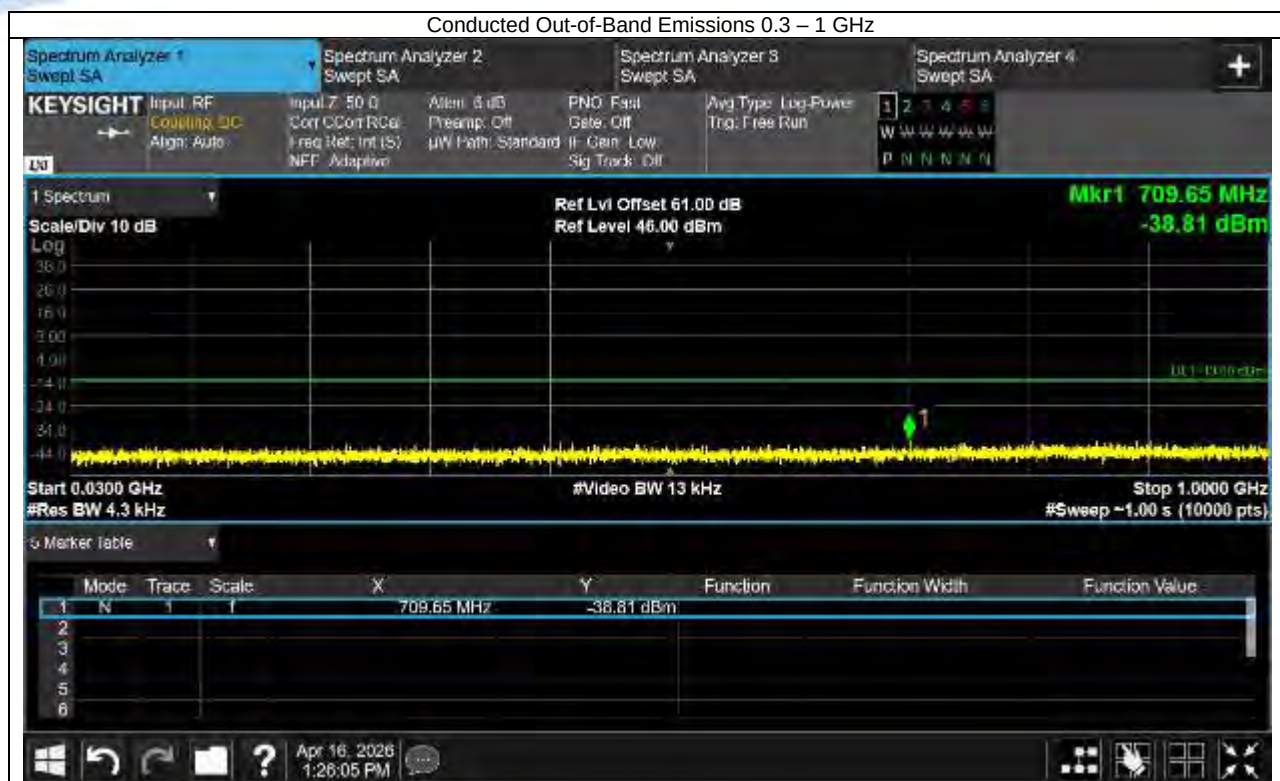
Variant:	650 KHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

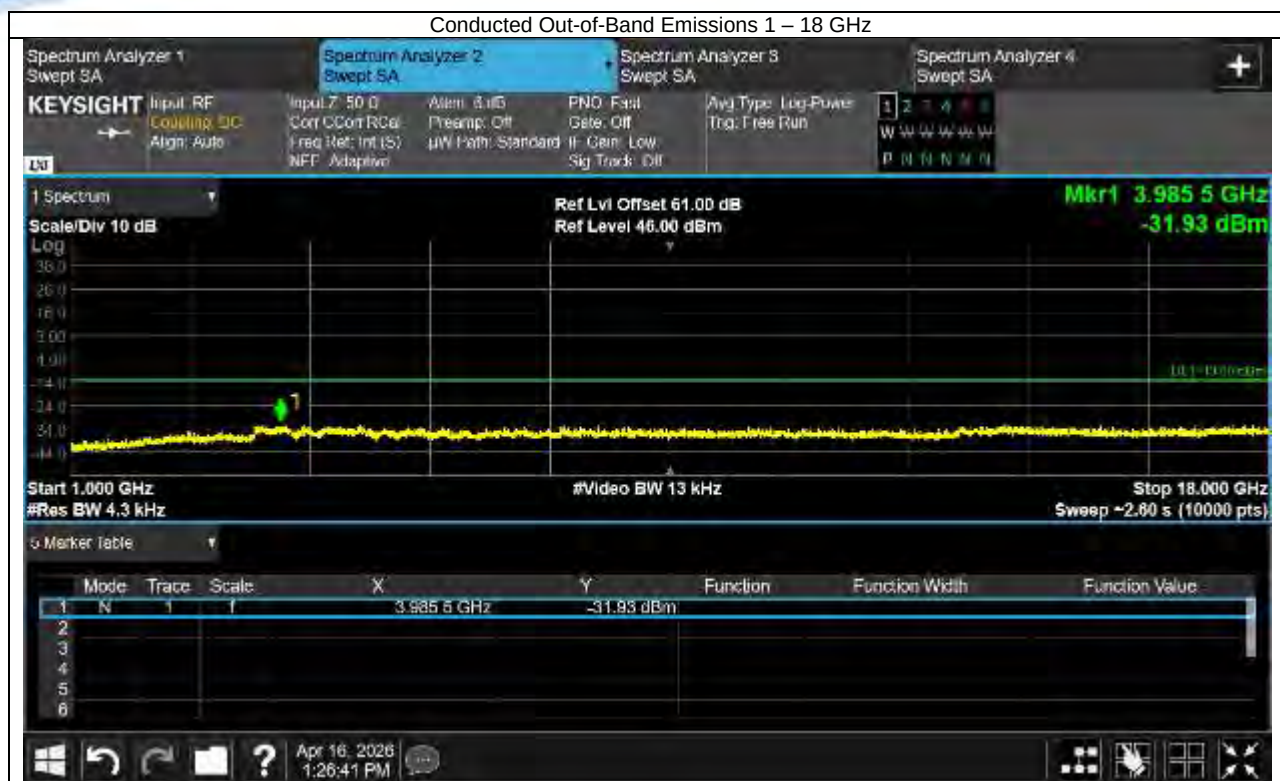
Test Measurement Results

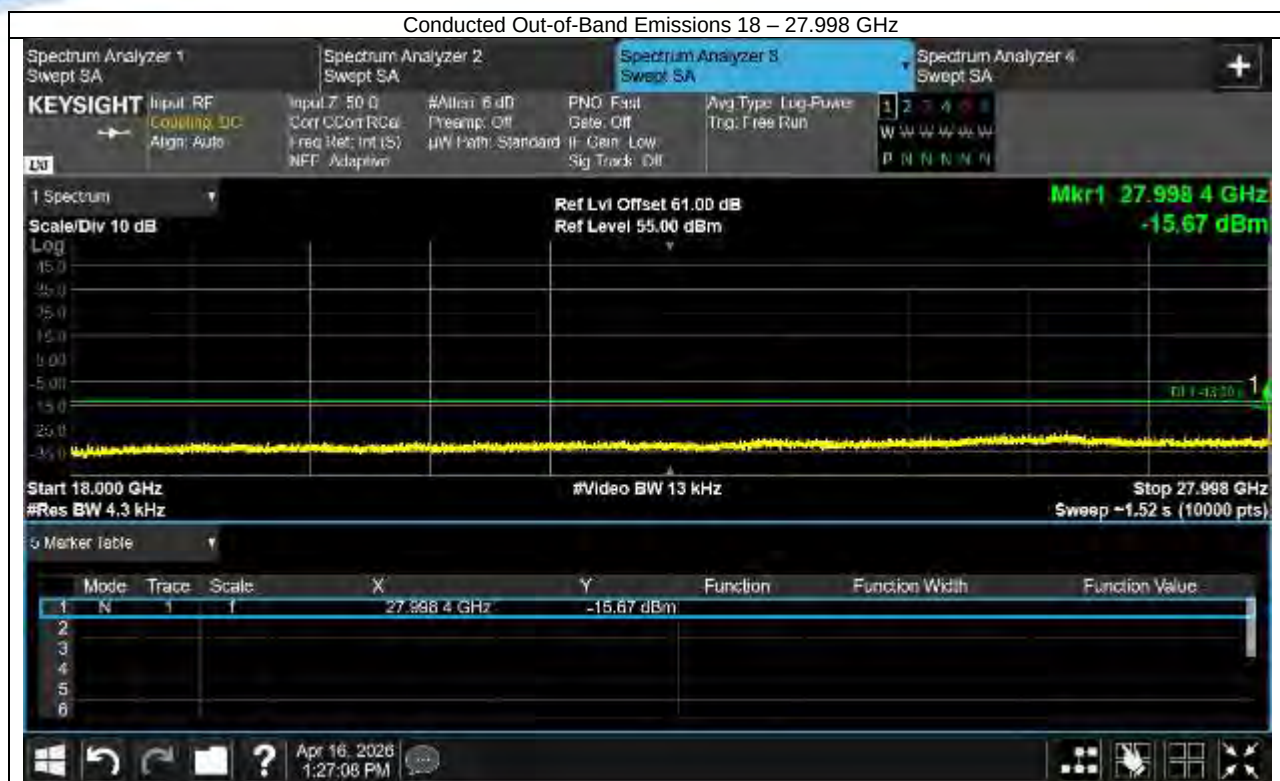
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 28000.00 MHz						
30MHz-1GHz	709.65	-38.81	--	-13.00	-25.81	Complies
1-18GHz	3985.50	-31.93	--	-13.00	-18.93	Complies
18-27.998GHz	27998.40	-15.67	--	-13.00	-2.67	Complies
28.002-40GHz	28001.60	-17.58	--	-13.00	-4.58	Complies
40-50GHz	49638.00	-49.47	--	-13.00	-36.47	Complies
50-75 GHz	56000.00	-63.66	-58.24	-13.00	-45.24	Complies
75-110GHz	91567.20	-62.57	--	-13.00	-49.57	Complies
110-140GHz	134722.85	-33.93	-20.88	-13.00	-7.88	Complies
140-150GHz	145652.75	-43.06	--	-13.00	-30.06	Complies

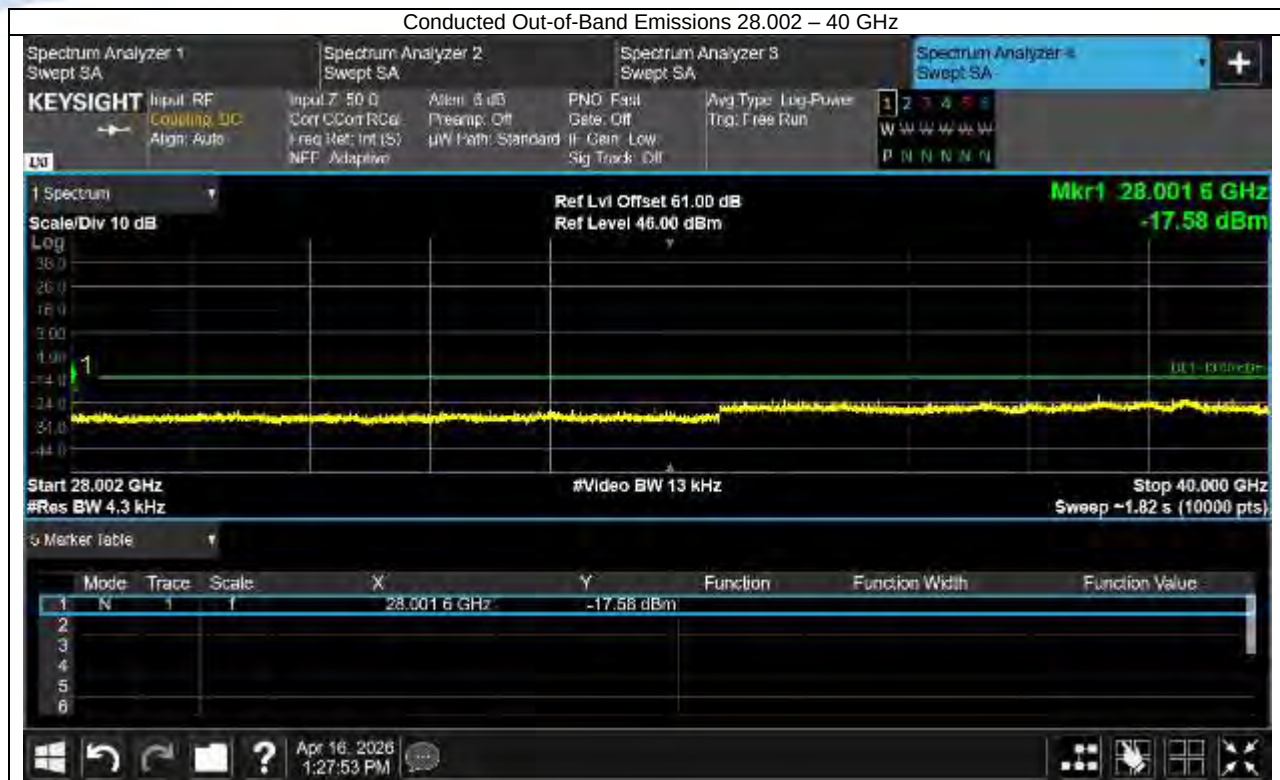
Traceability to Industry Recognized Test Methodologies

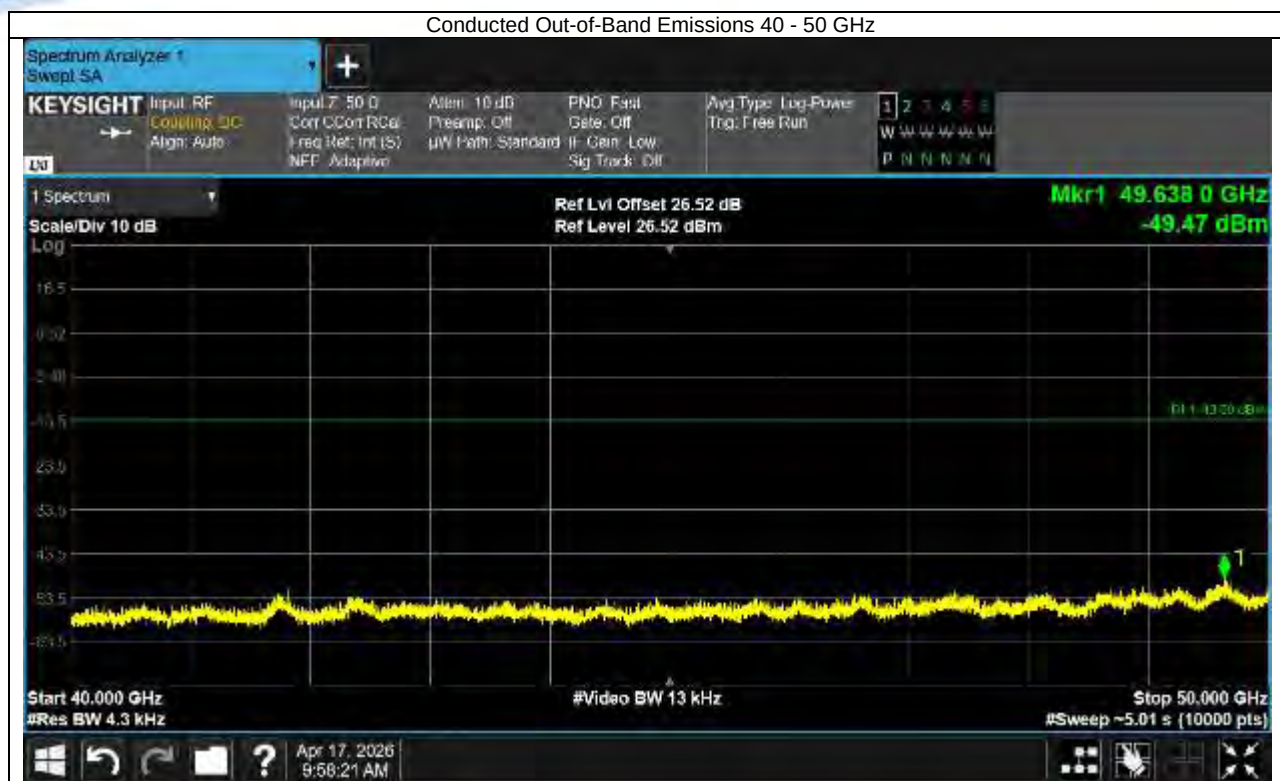
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

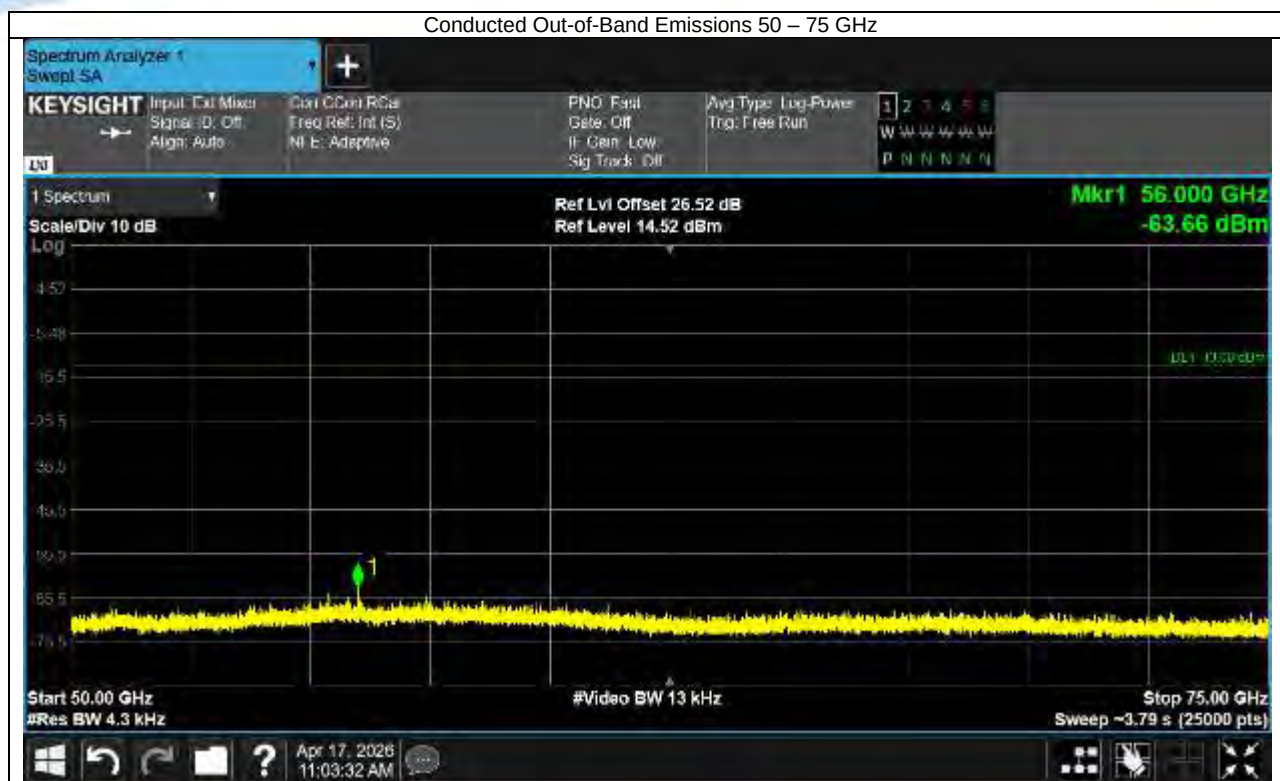


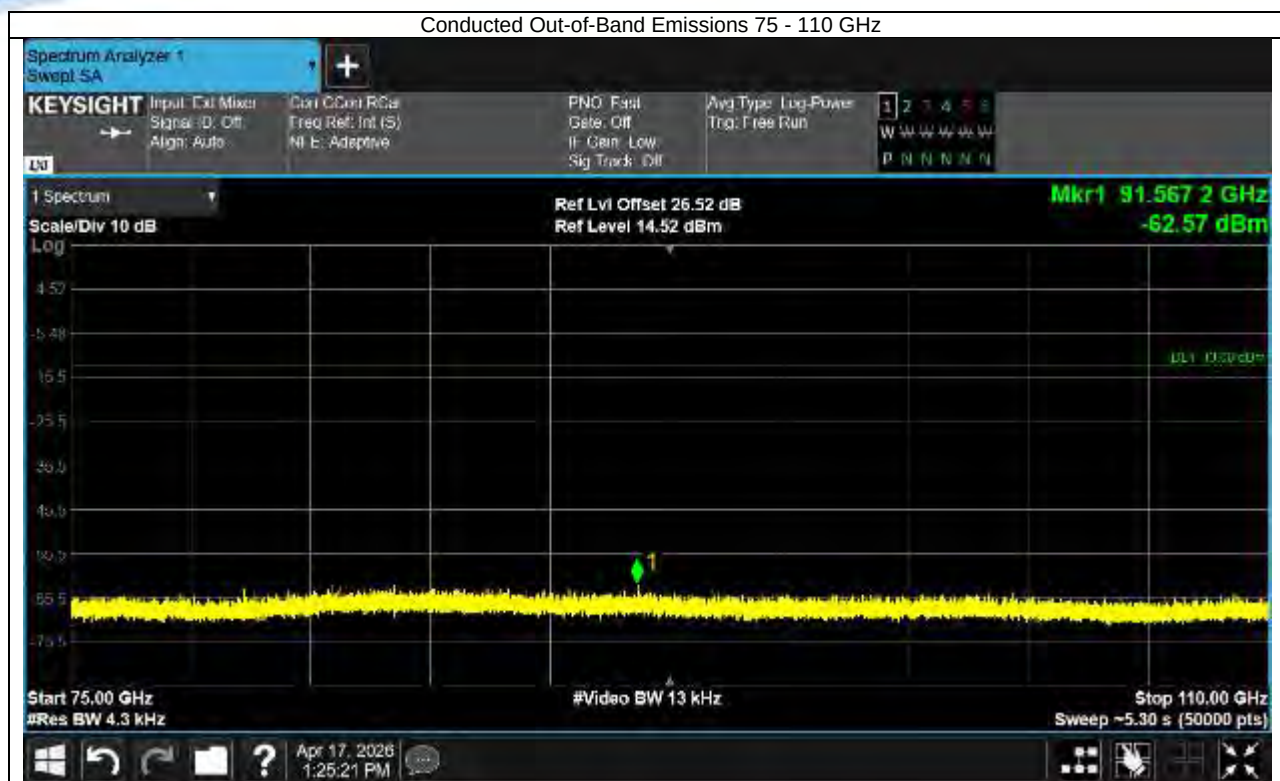




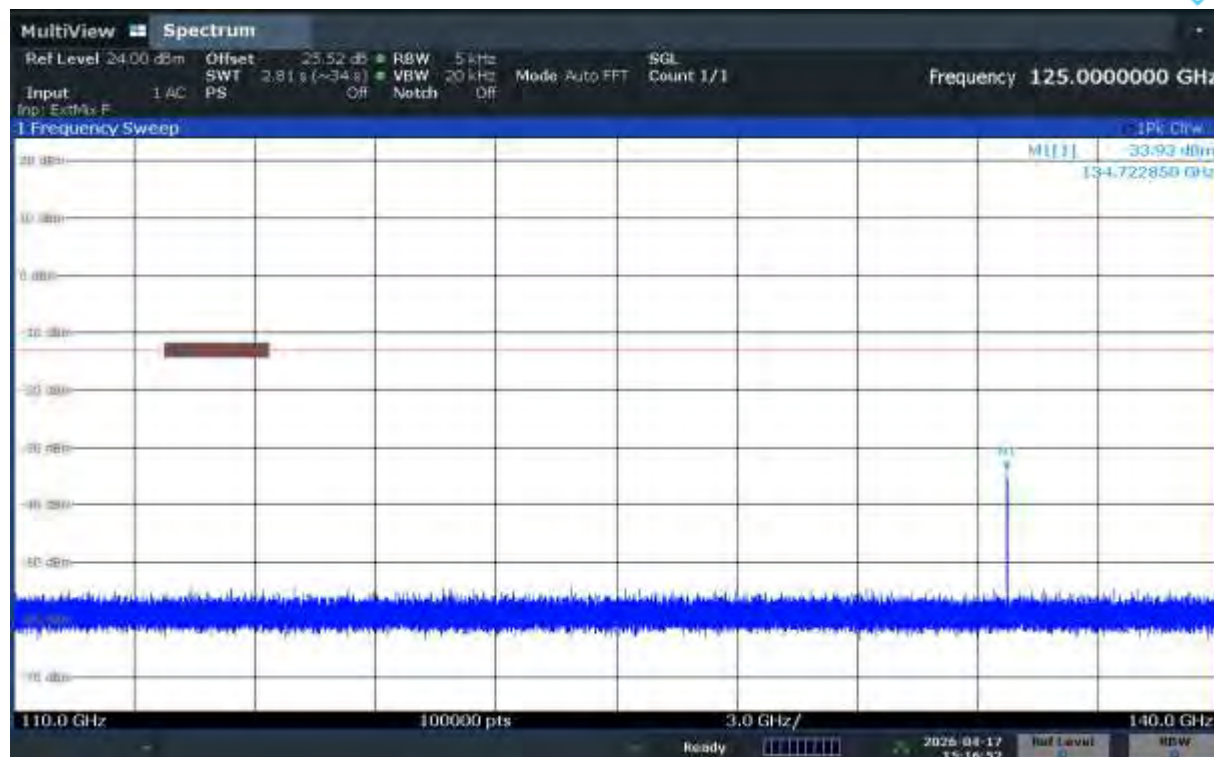






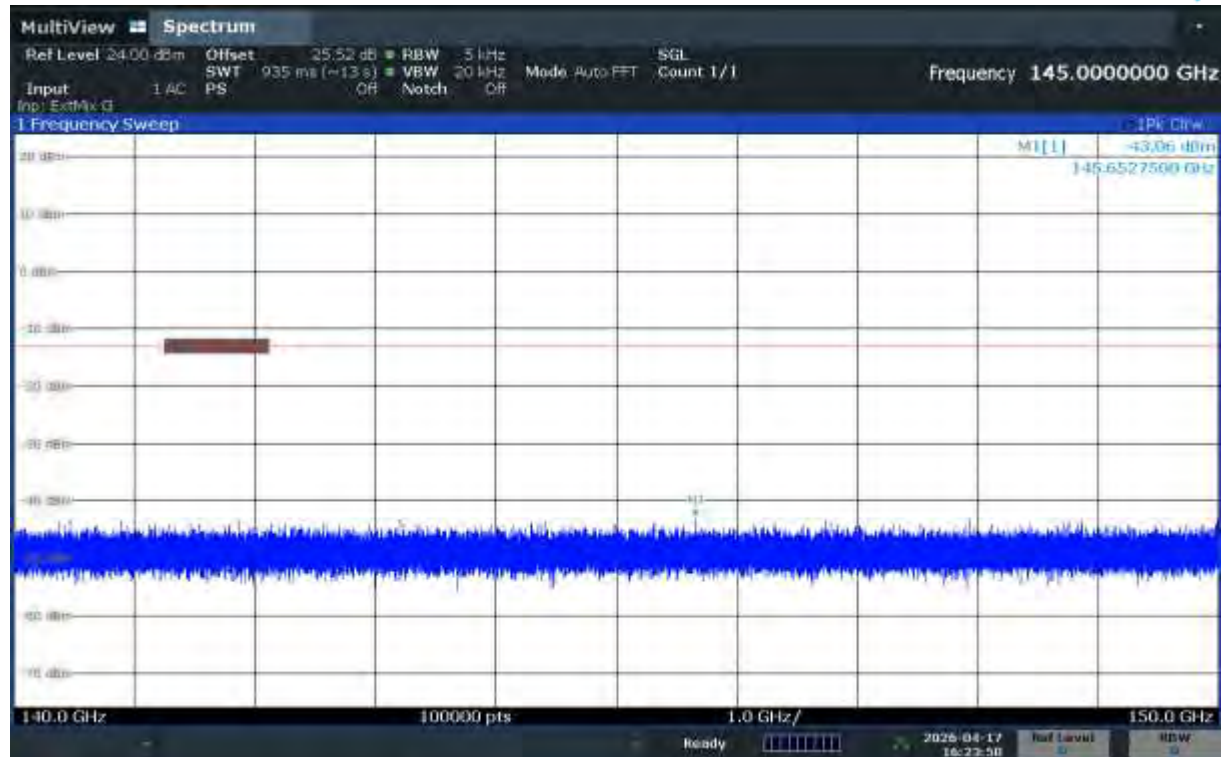


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:16:52

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:23:50

8.5.2.39. 8PSK 650KHz Low Band High Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

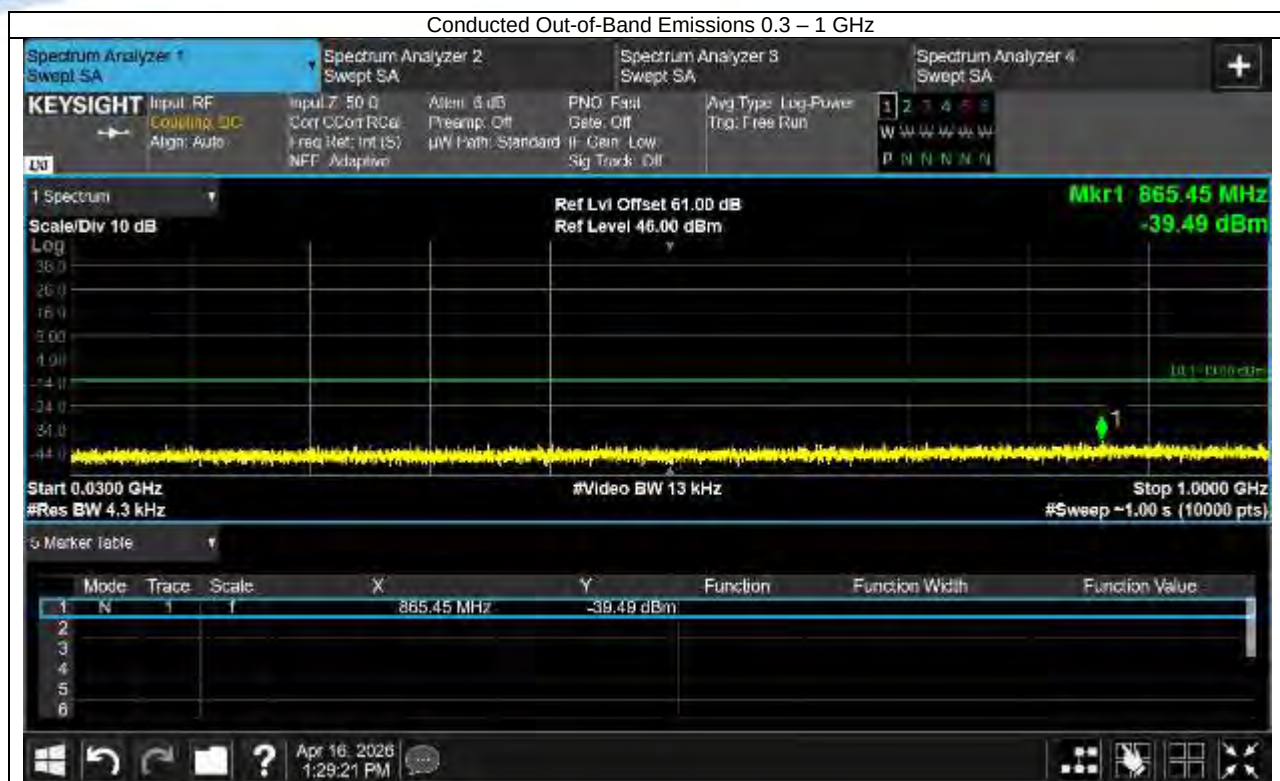
Variant:	650 KHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

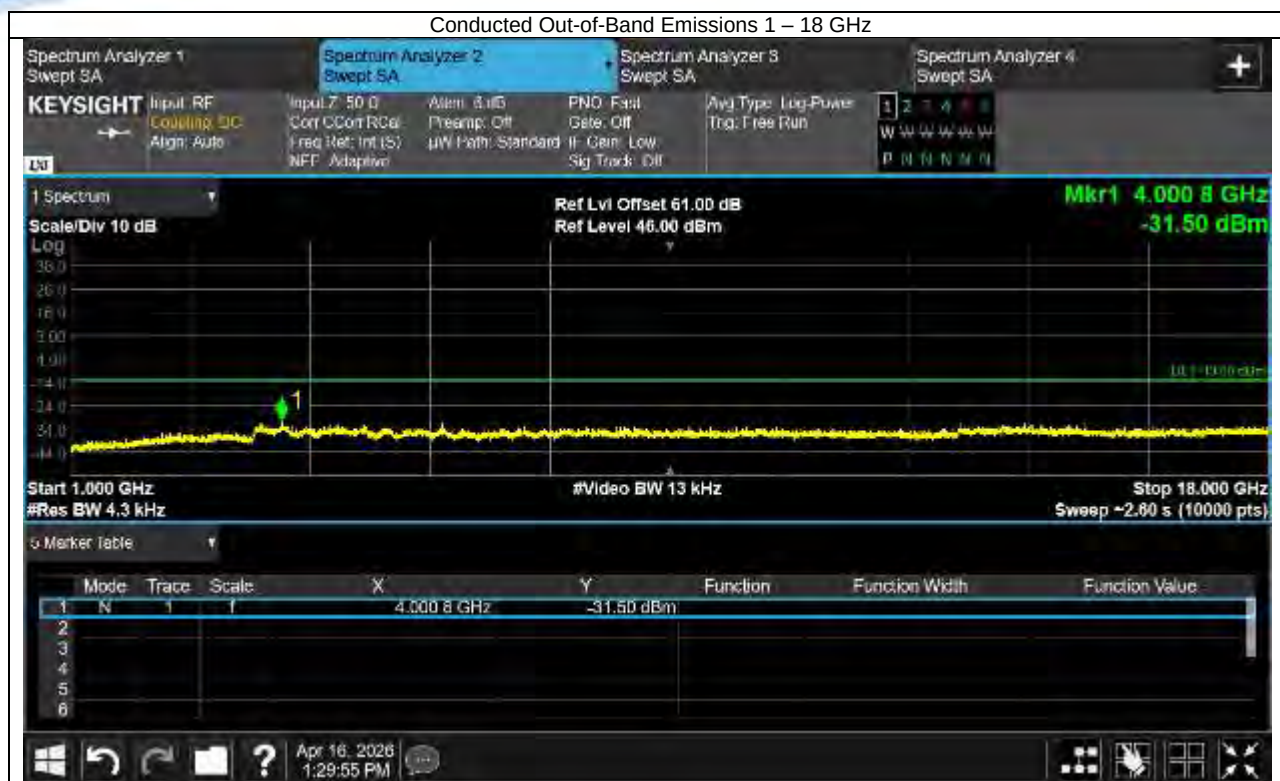
Test Measurement Results

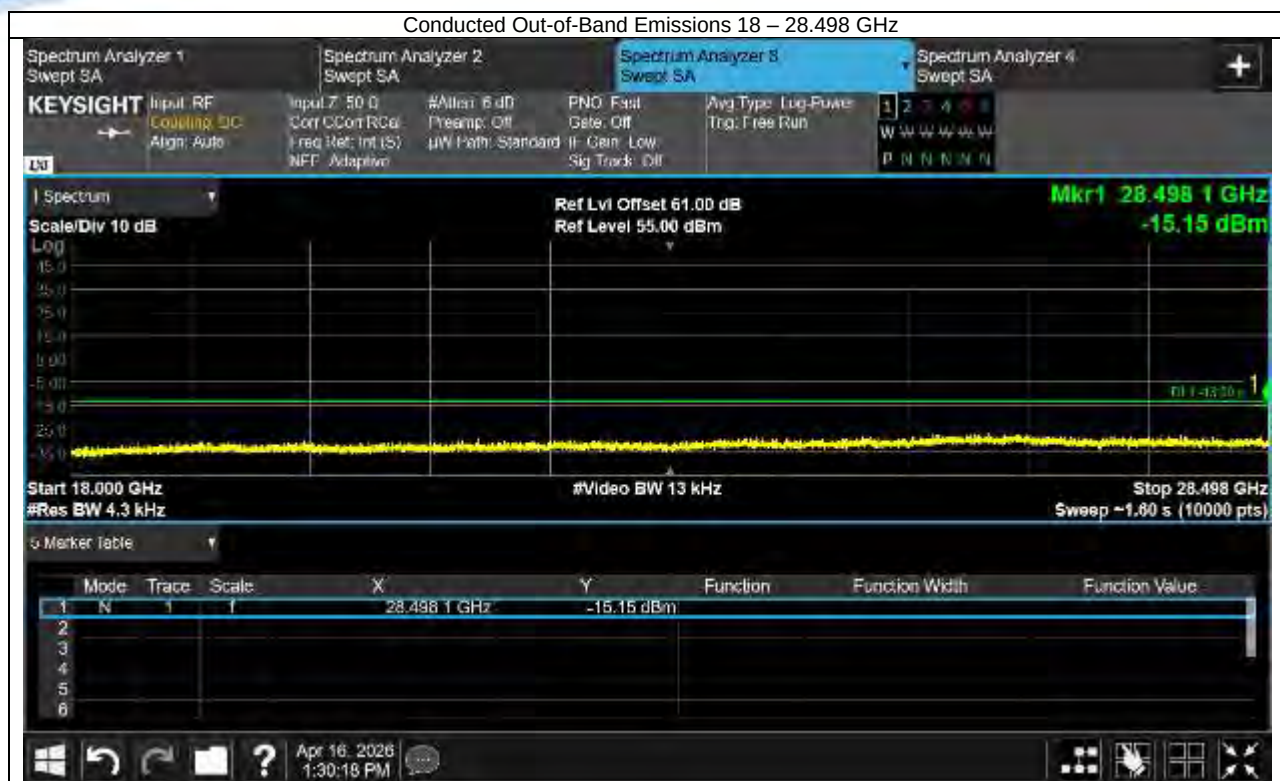
Temperature: 20 °C	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Voltage: 115 Vac, 60 Hz						
Test Frequency: 28499.676 MHz						
30MHz-1GHz	865.45	-39.49	--	-13.00	-26.49	Complies
1-18GHz	4000.80	-31.50	--	-13.00	-18.50	Complies
18-28.498GHz	28498.10	-15.15	--	-13.00	-2.15	Complies
28.502-40GHz	28501.30	-16.78	--	-13.00	-3.78	Complies
40-50GHz	49630.00	-49.60	--	-13.00	-36.60	Complies
50-75 GHz	64044.00	-57.13	-50.54	-13.00	-37.54	Complies
75-110GHz	85498.80	-53.97	--	-13.00	-40.97	Complies
110-140GHz	137214.35	-34.20	-20.99	-13.00	-7.99	Complies
140-150GHz	144056.85	-42.81	--	-13.00	-29.81	Complies

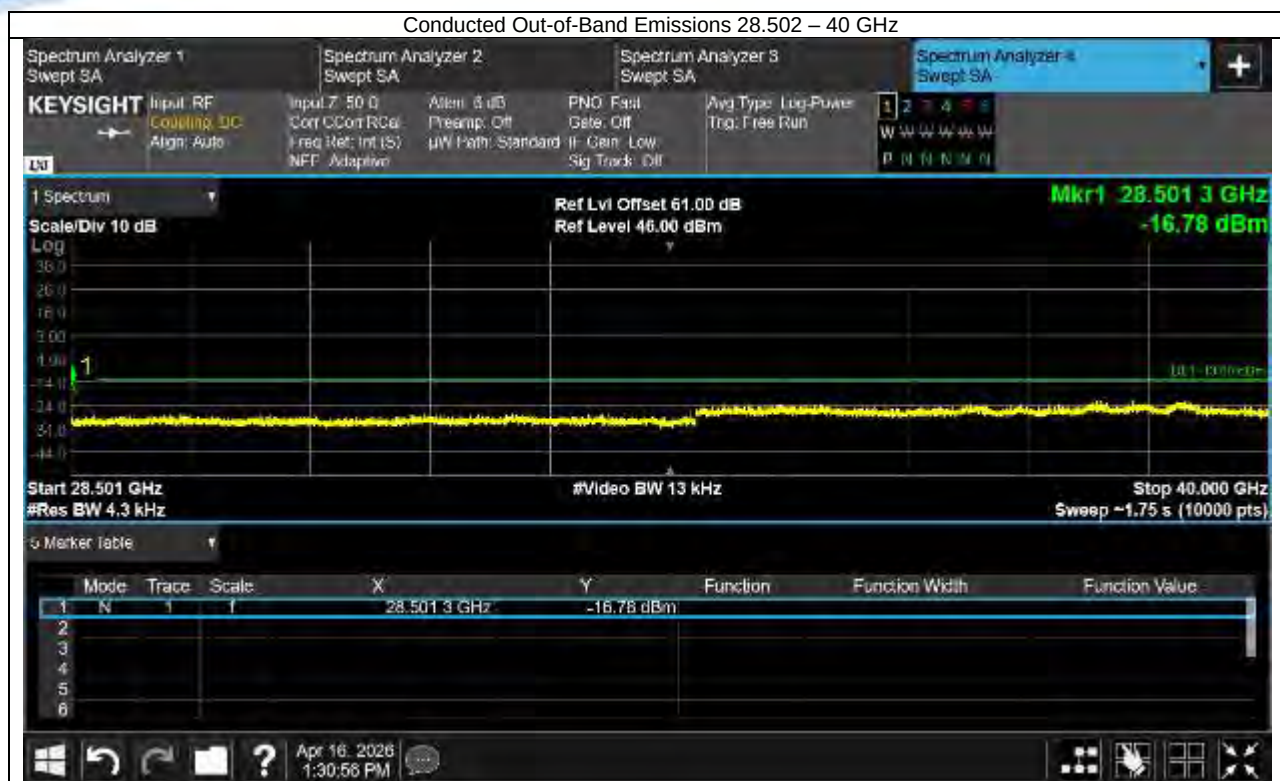
Traceability to Industry Recognized Test Methodologies

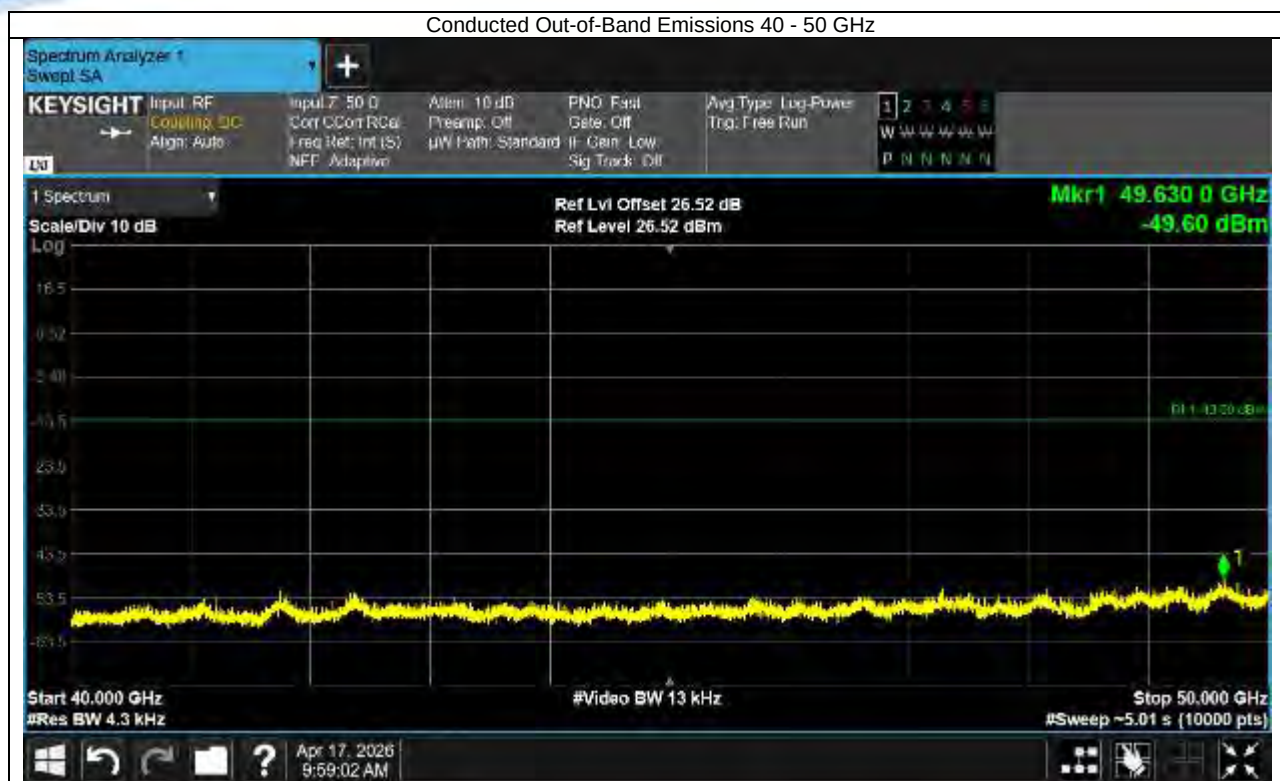
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

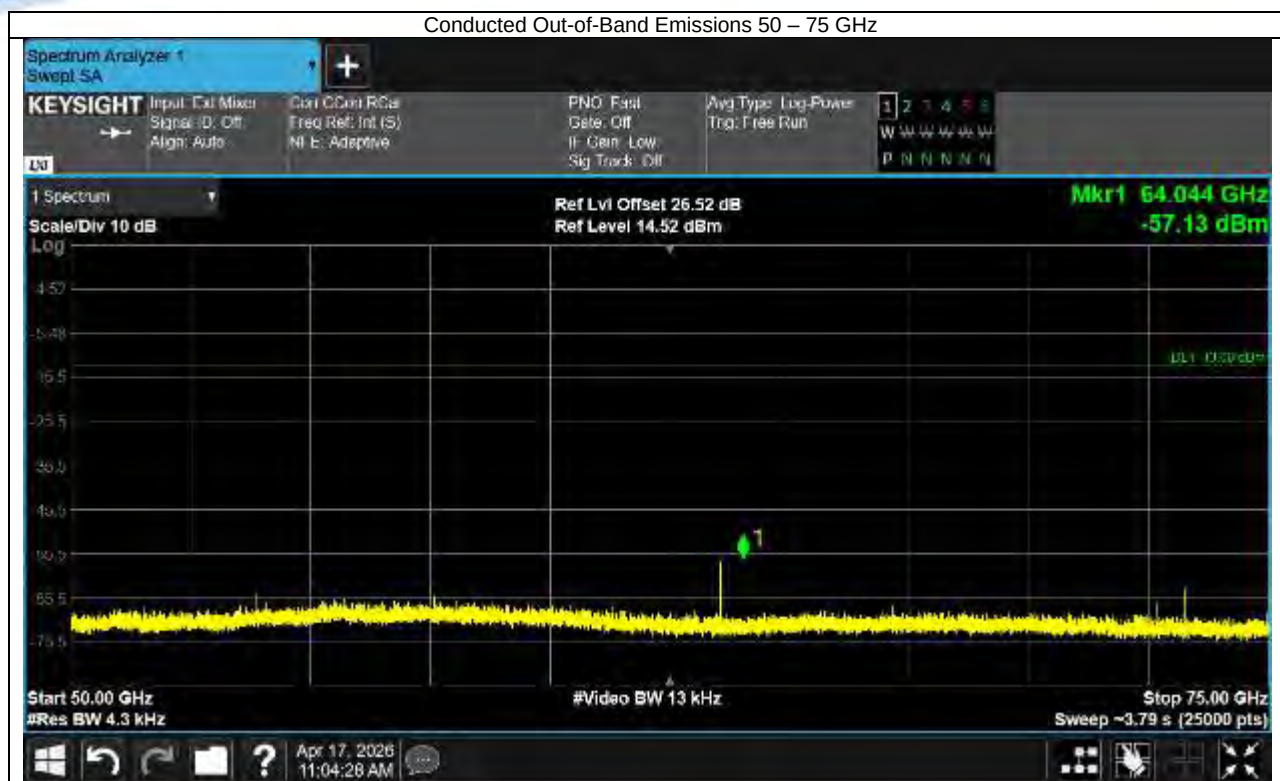


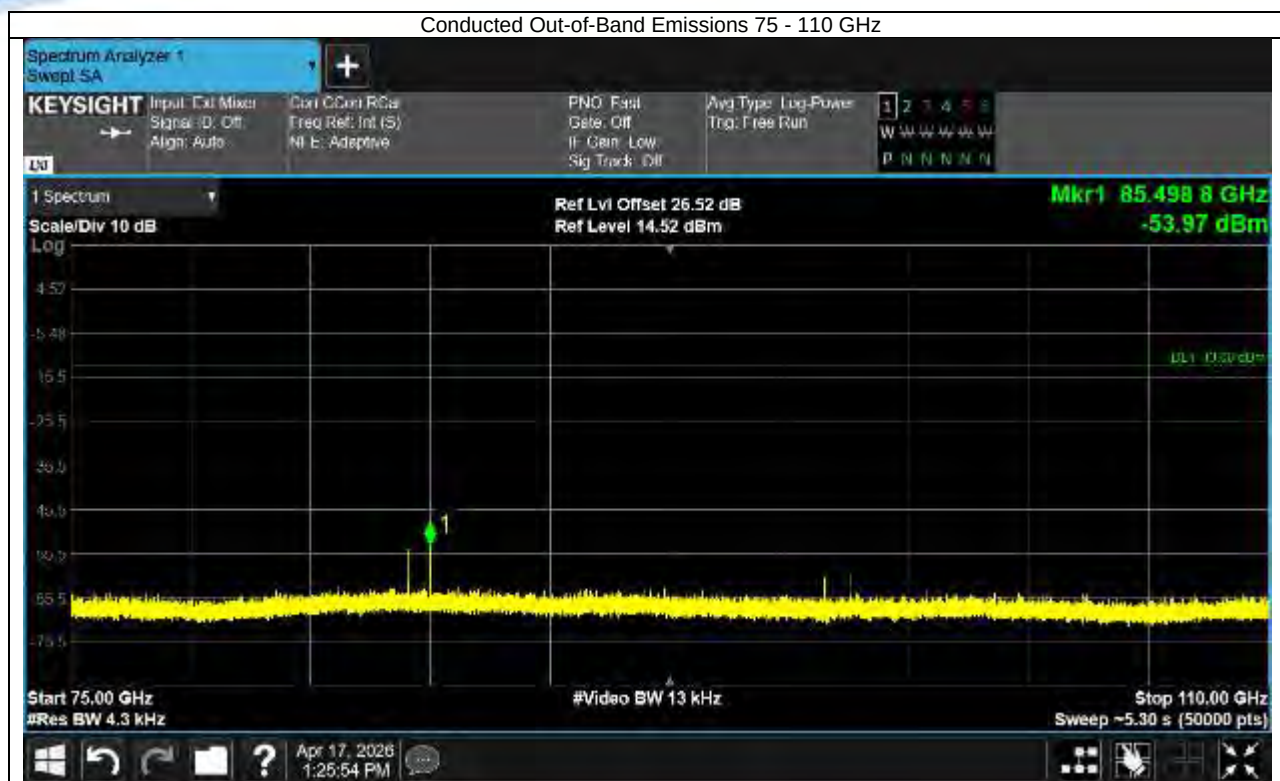




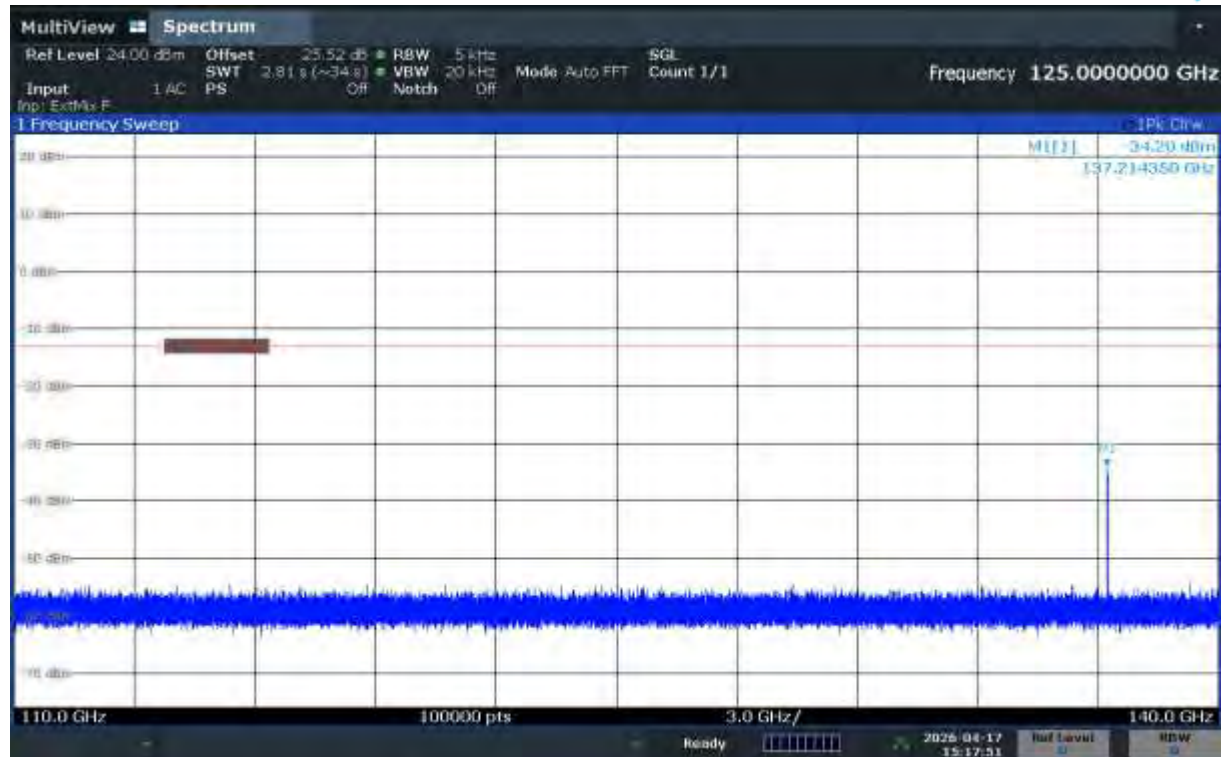






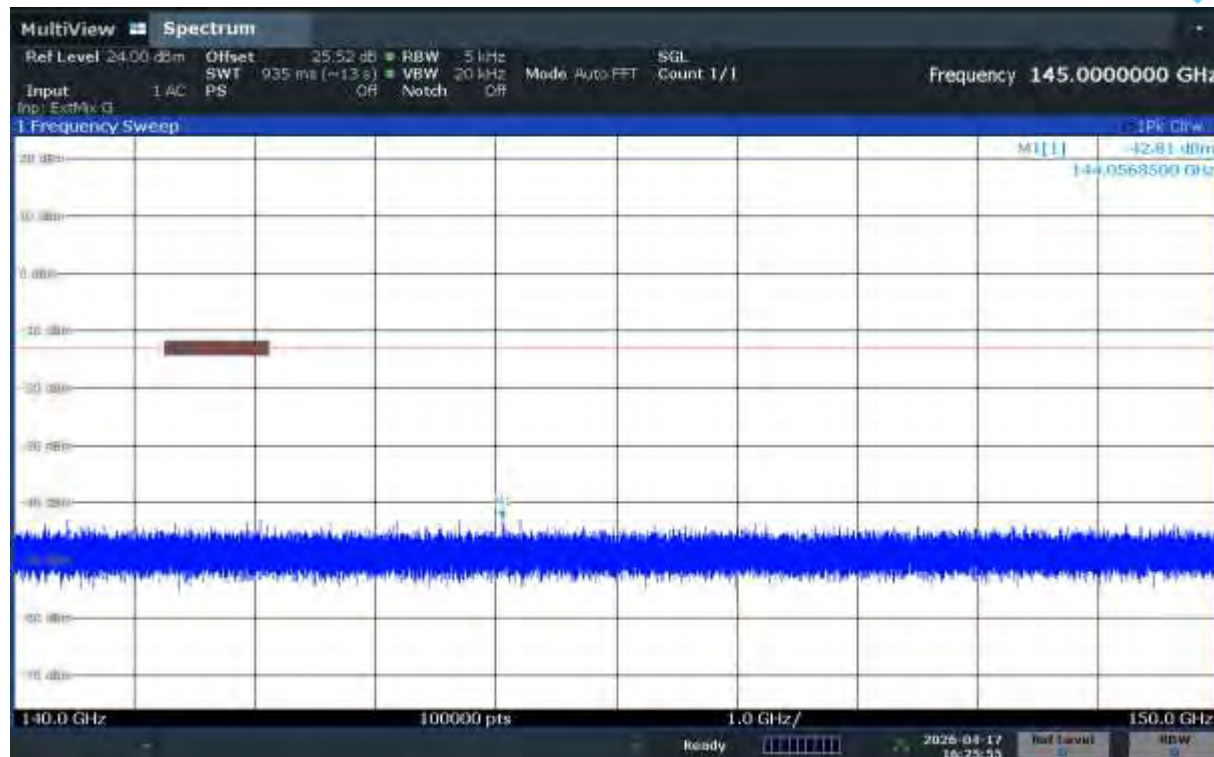


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:17:51

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:25:55

8.5.2.40. 8PSK 650KHz Mid Band Low Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

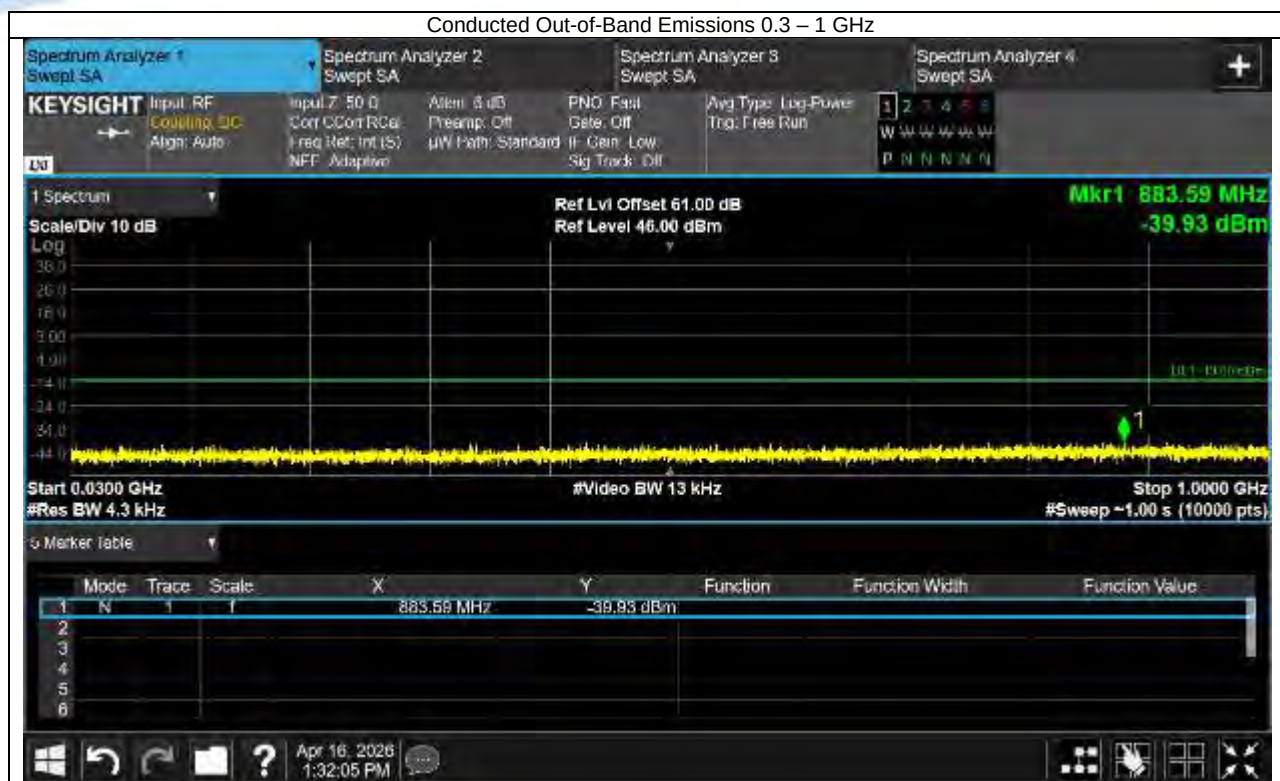
Variant:	650 KHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

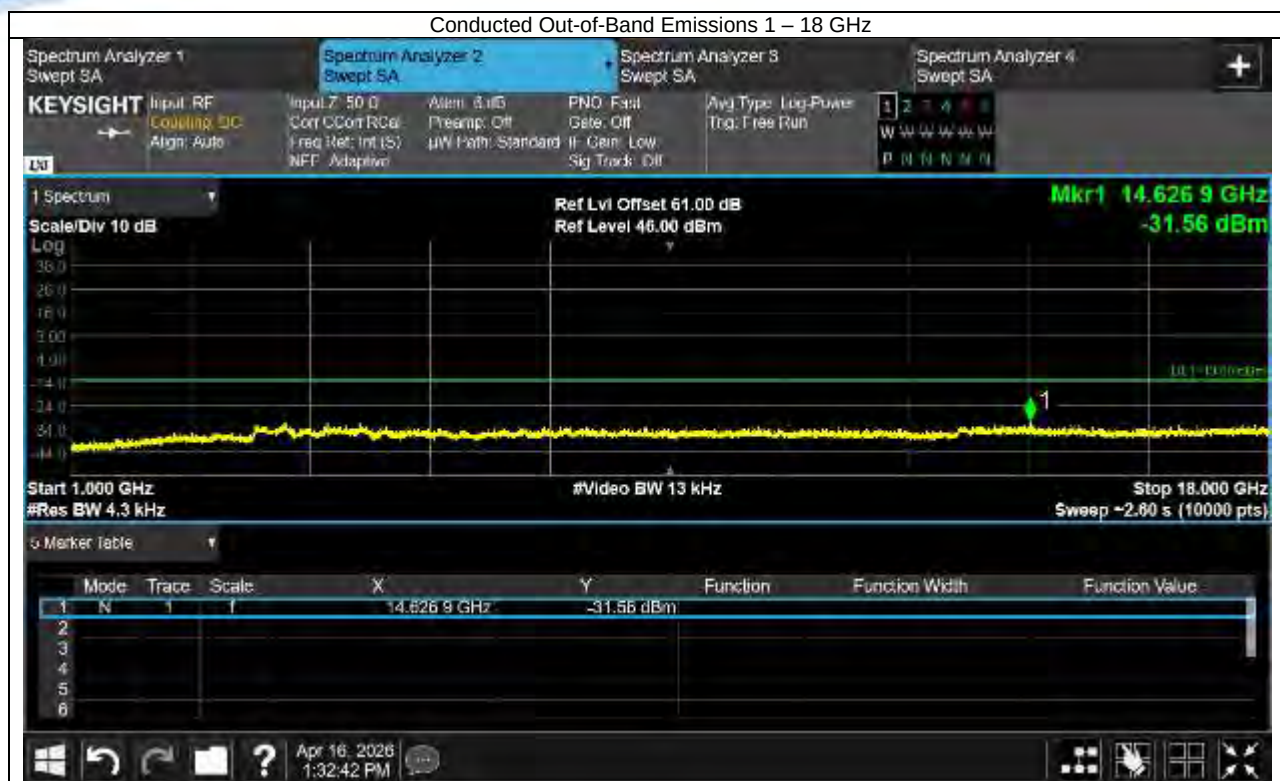
Test Measurement Results

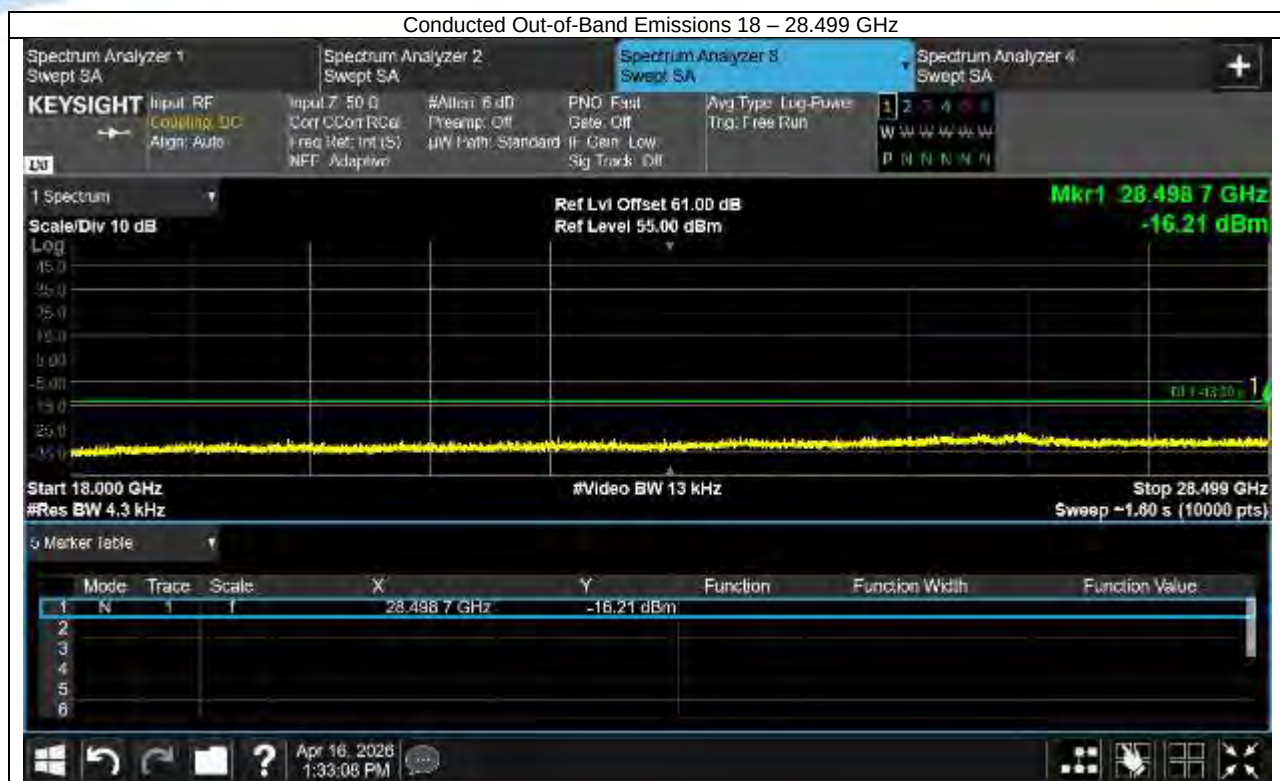
Temperature: 20 °C	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Voltage: 115 Vac, 60 Hz						
Test Frequency: 28500.324 MHz						
30MHz-1GHz	883.59	-39.93	--	-13.00	-26.93	Complies
1-18GHz	14626.90	-31.56	--	-13.00	-18.56	Complies
18-28.499GHz	28498.70	-16.21	--	-13.00	-3.21	Complies
28.502-40GHz	28501.90	-14.12	--	-13.00	-1.12	Complies
40-50GHz	49727.00	-50.25	--	-13.00	-37.25	Complies
50-75 GHz	64046.00	-57.28	-50.69	-13.00	-37.69	Complies
75-110GHz	85501.60	-52.80	--	-13.00	-39.80	Complies
110-140GHz	137236.85	-34.75	-21.54	-13.00	-8.54	Complies
140-150GHz	146242.15	-42.53	--	-13.00	-29.53	Complies

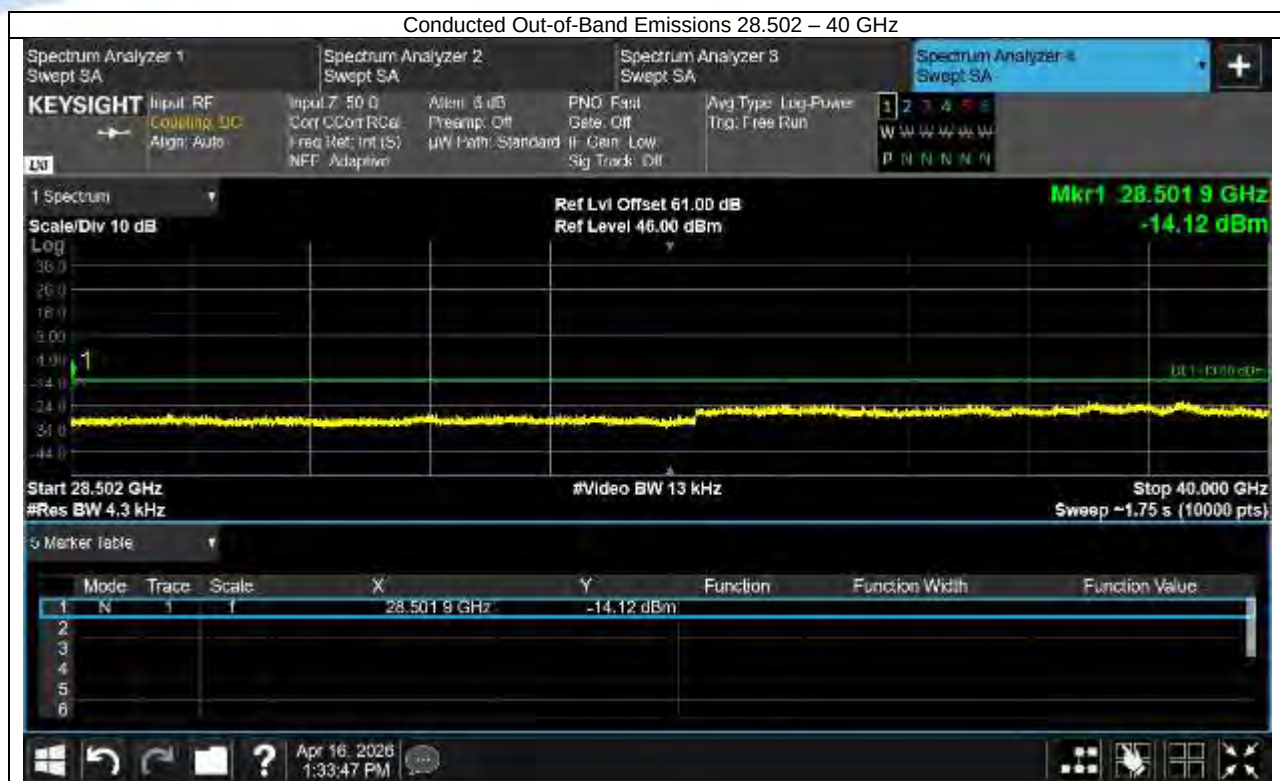
Traceability to Industry Recognized Test Methodologies

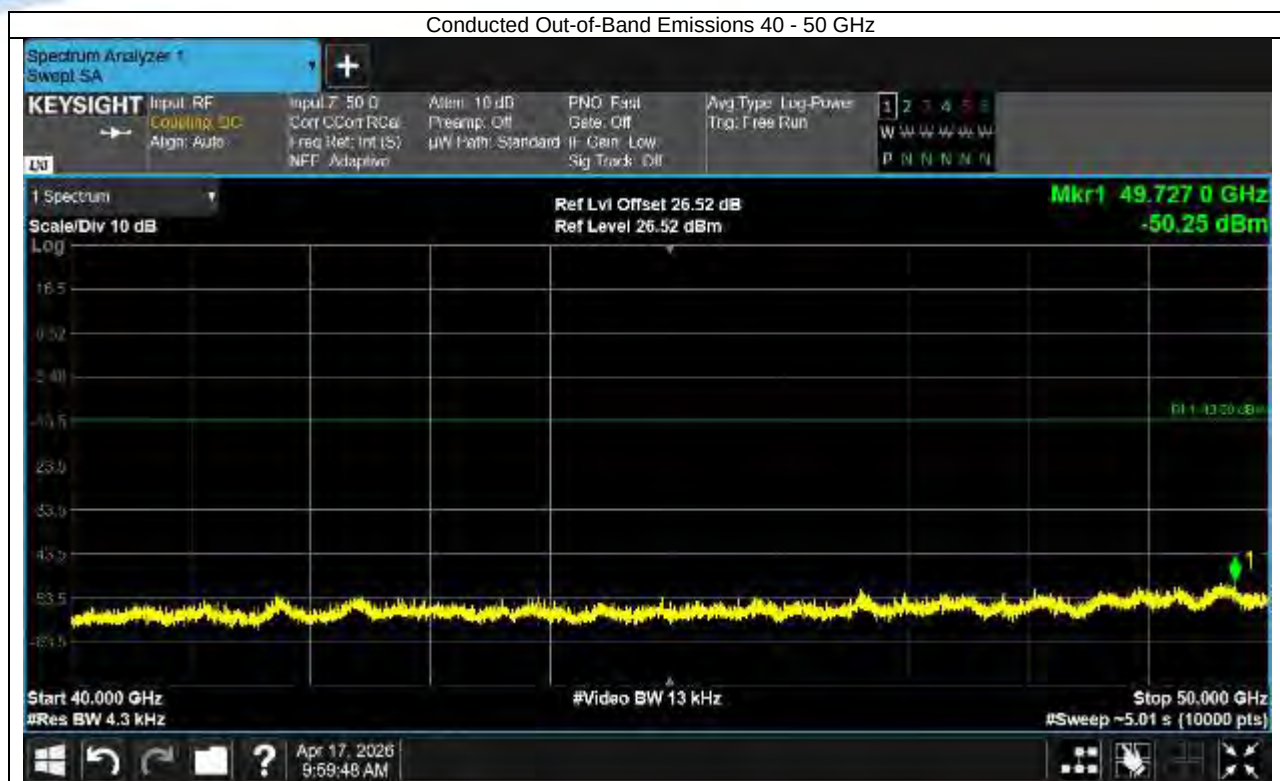
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

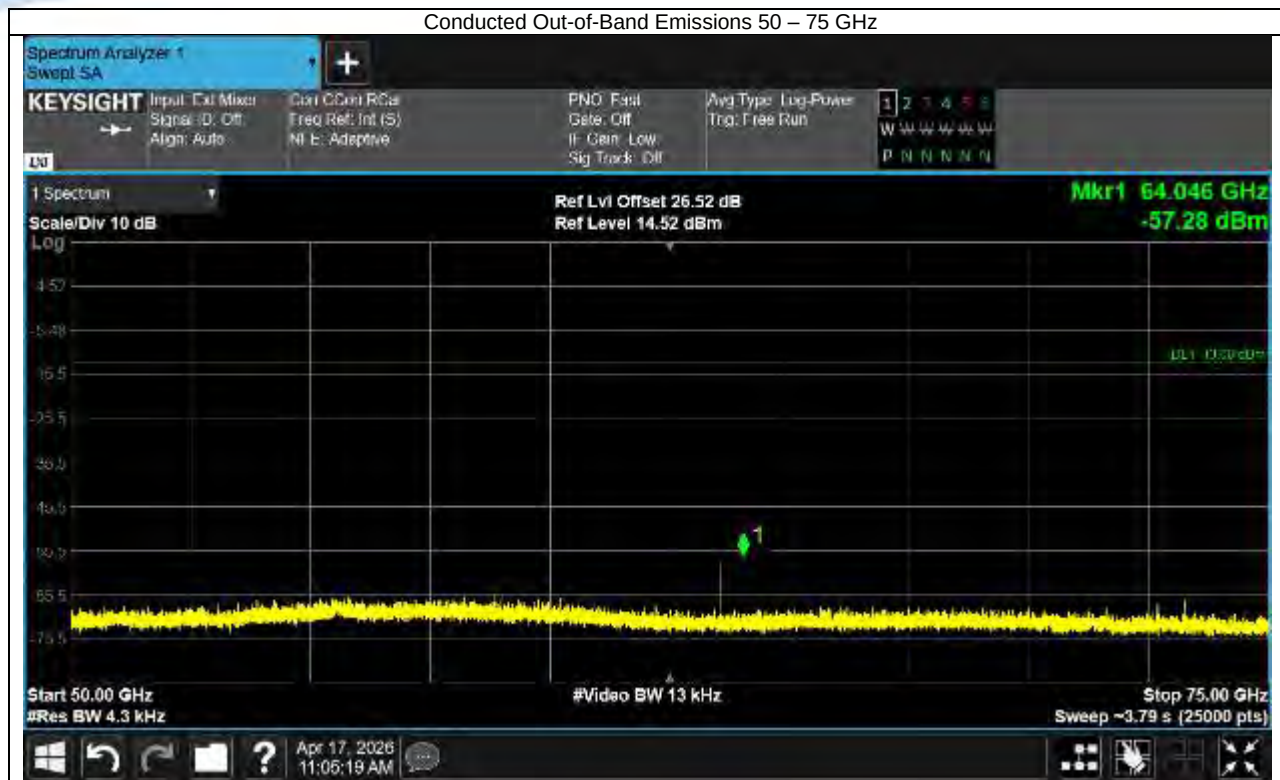


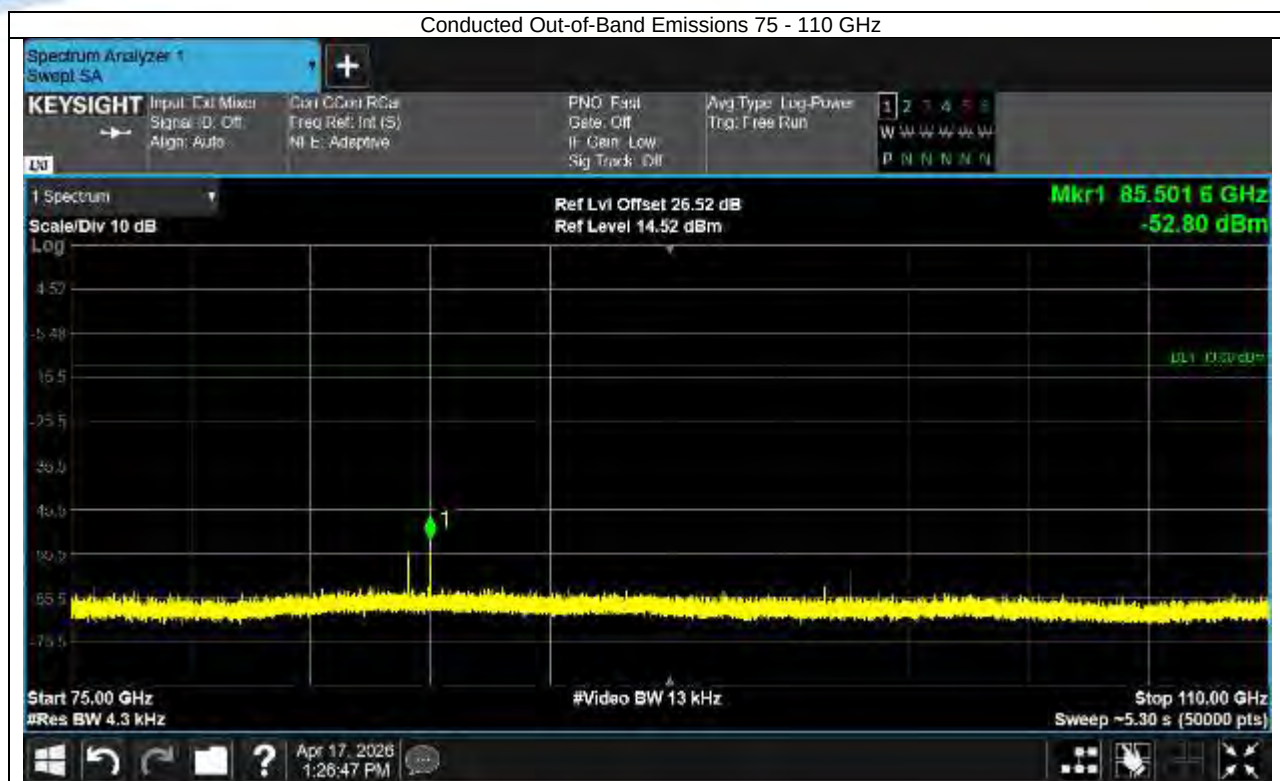




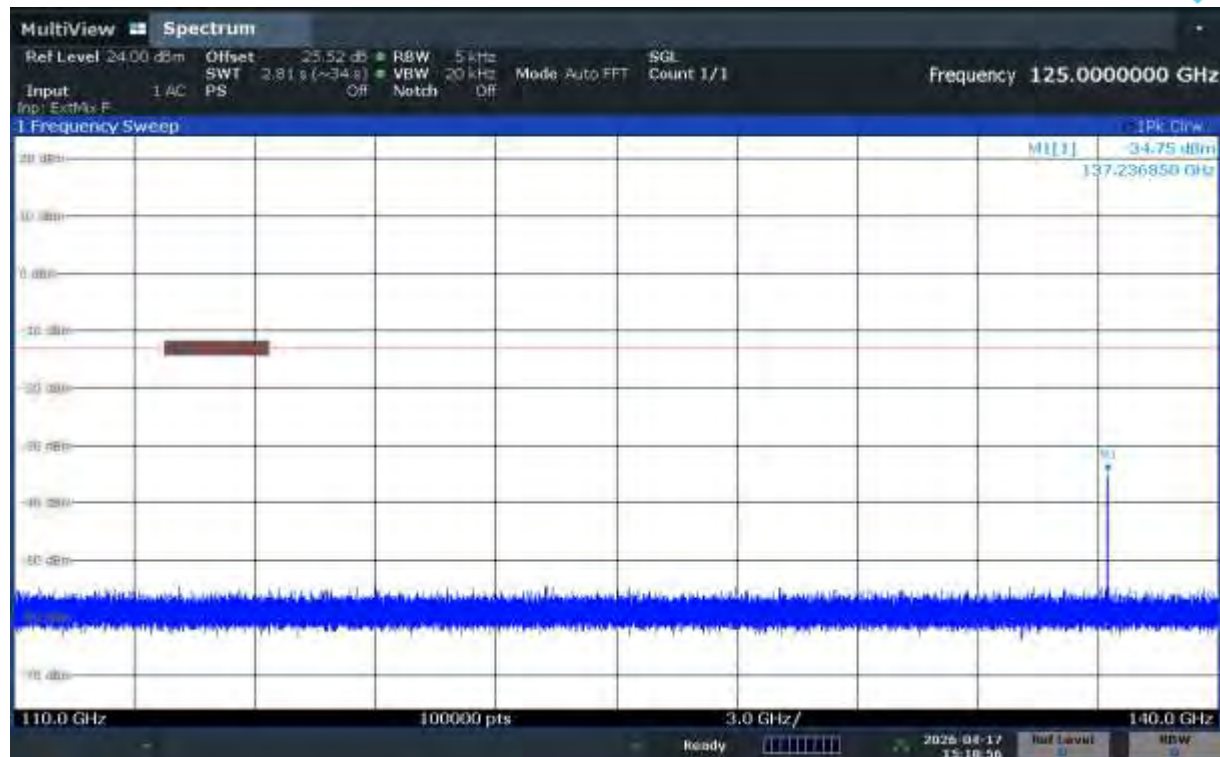






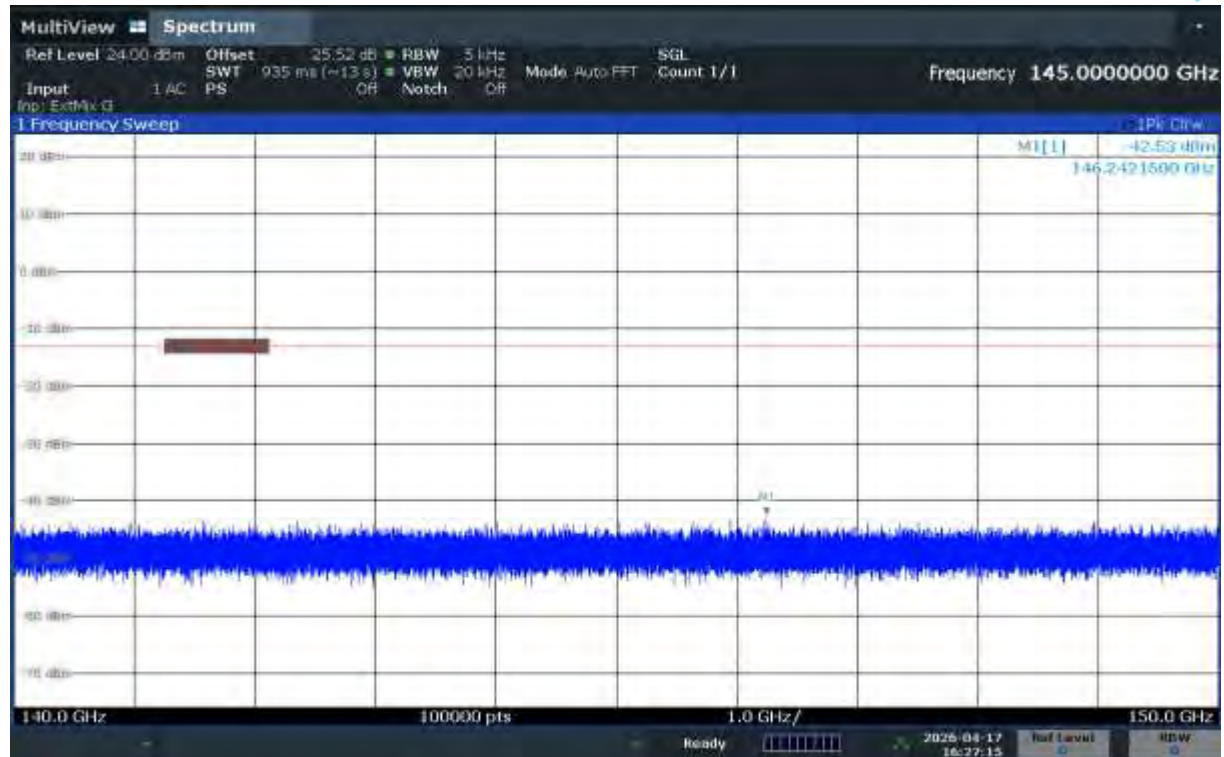


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:18:57

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:27:15

8.5.2.41. 8PSK 650KHz Mid Band Mid Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

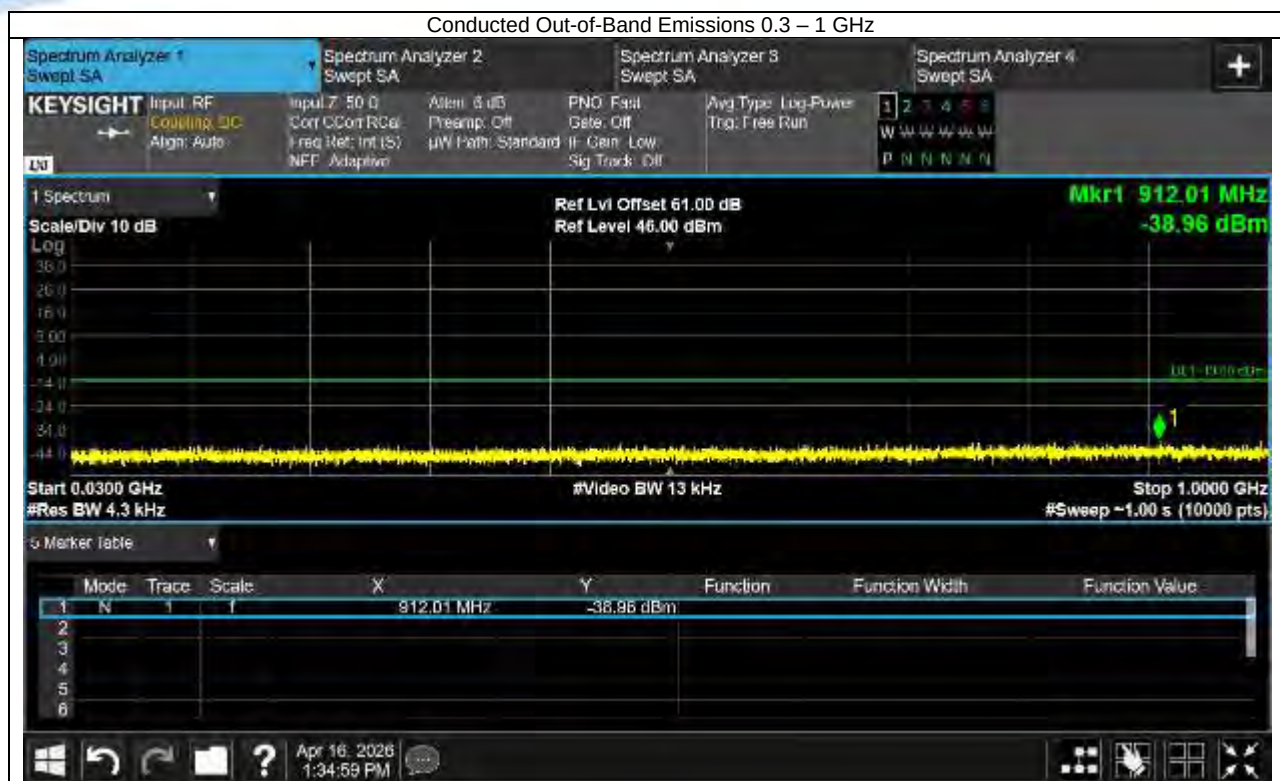
Variant:	650 KHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

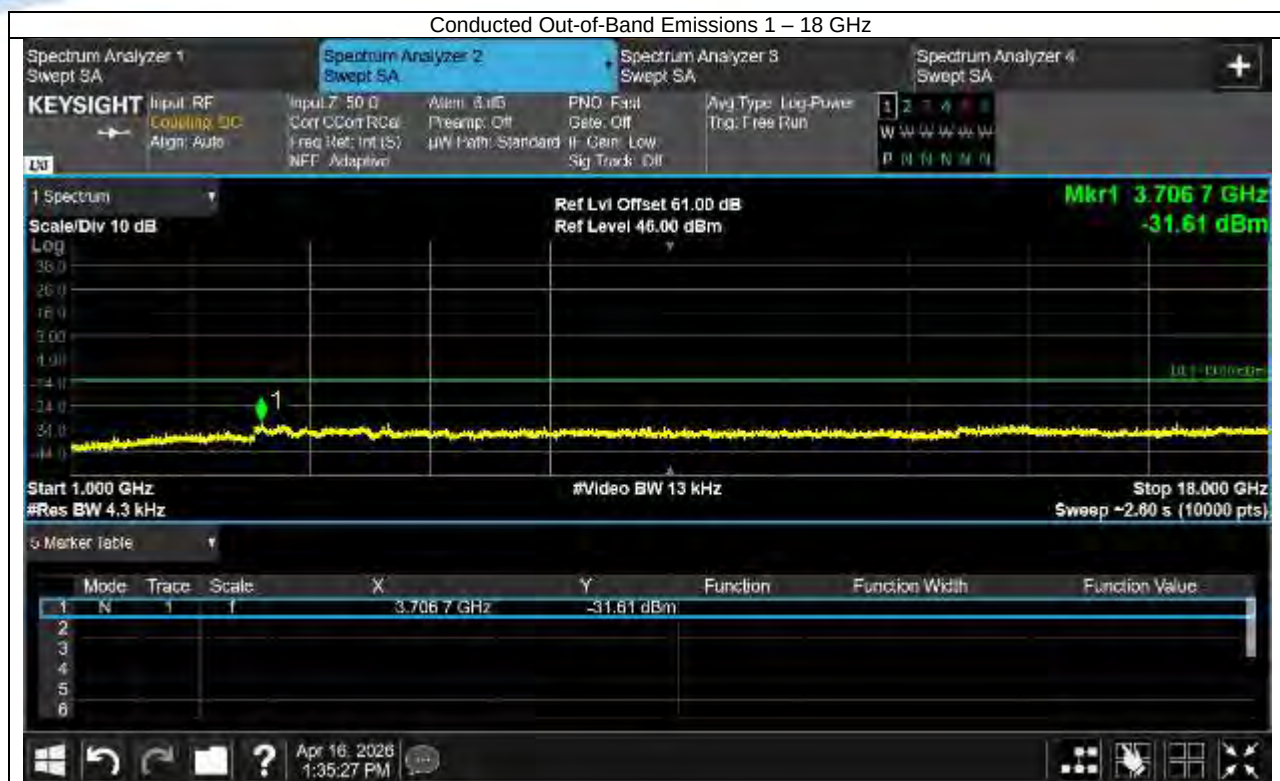
Test Measurement Results

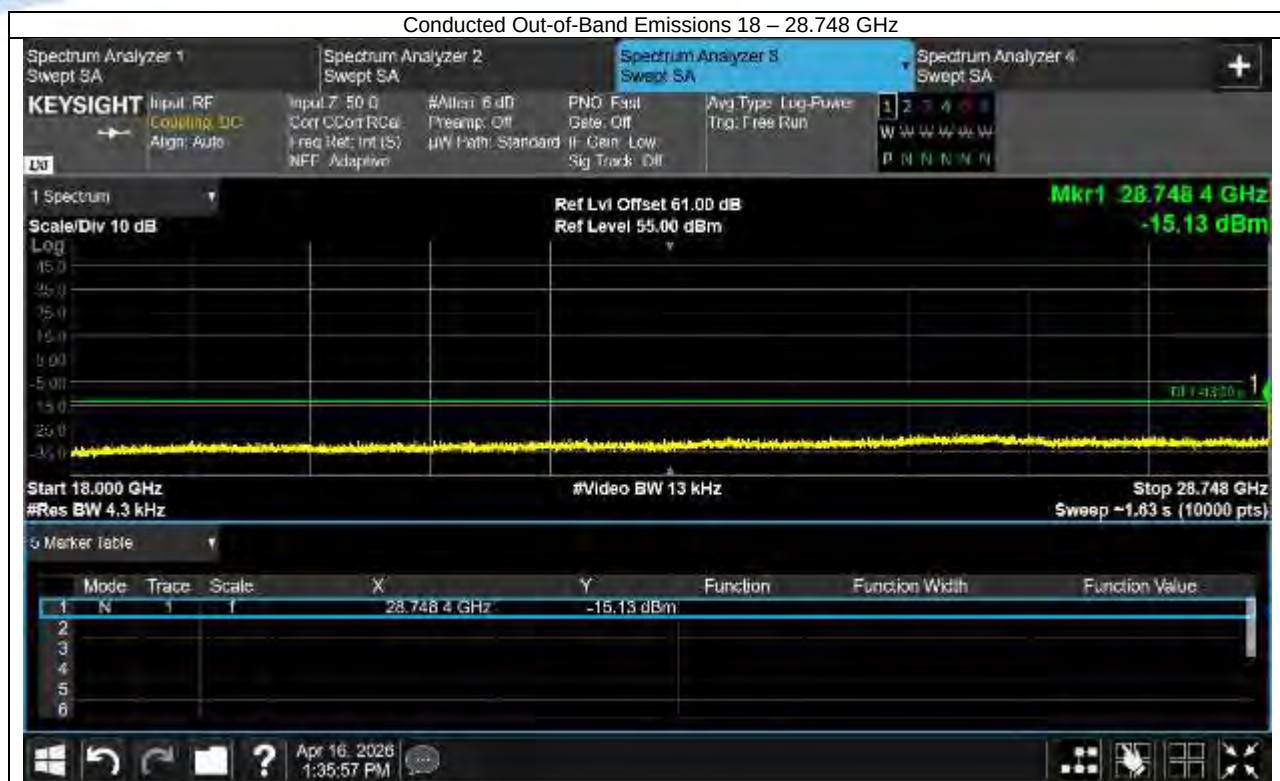
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 28750.00 MHz						
30MHz-1GHz	912.01	-38.96	--	-13.00	-25.96	Complies
1-18GHz	3706.70	-31.61	--	-13.00	-18.61	Complies
18-28.748GHz	28748.40	-15.13	--	-13.00	-2.13	Complies
28.751-40GHz	28751.60	-13.48	--	-13.00	-0.48	Complies
40-50GHz	49600.00	-49.64	--	-13.00	-36.64	Complies
50-75 GHz	57500.00	-62.72	-57.07	-13.00	-44.07	Complies
75-110GHz	86249.90	-62.21	--	-13.00	-49.21	Complies
110-140GHz	138467.75	-38.68	-25.40	-13.00	-12.40	Complies
140-150GHz	147004.15	-42.72	--	-13.00	-29.72	Complies

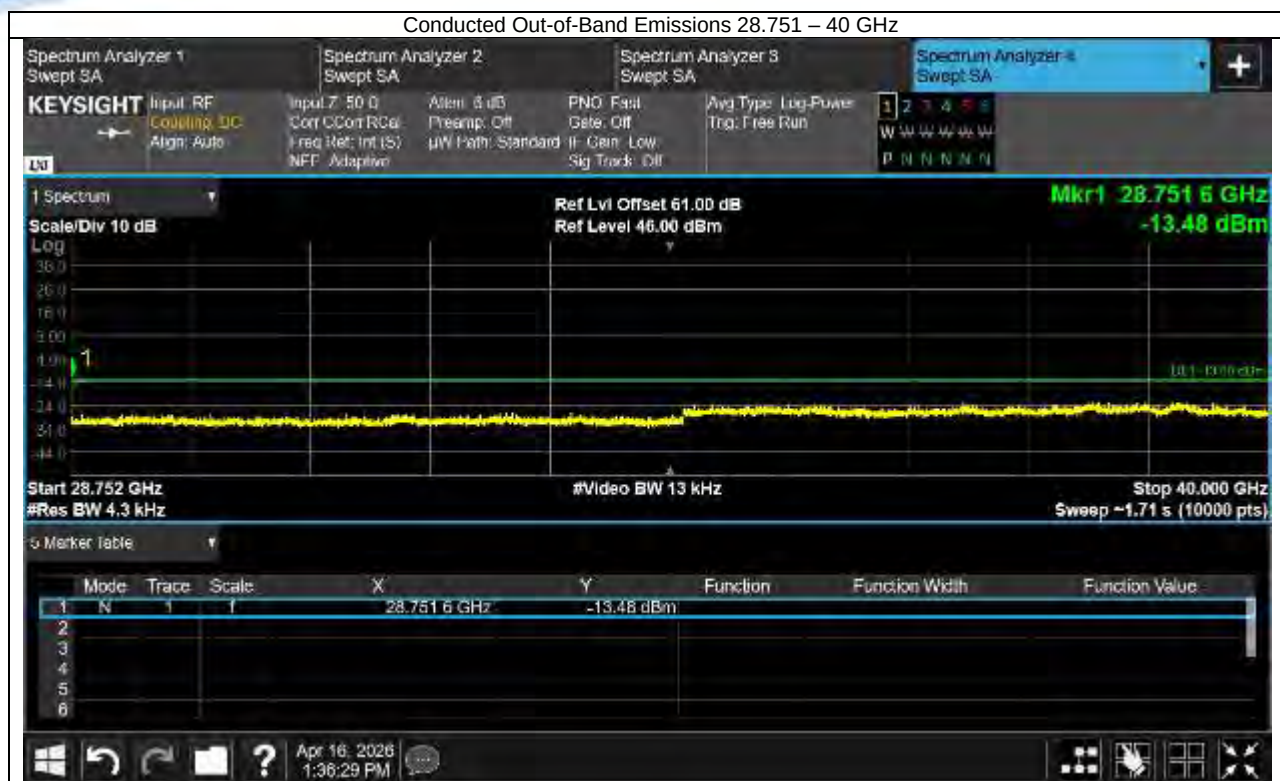
Traceability to Industry Recognized Test Methodologies

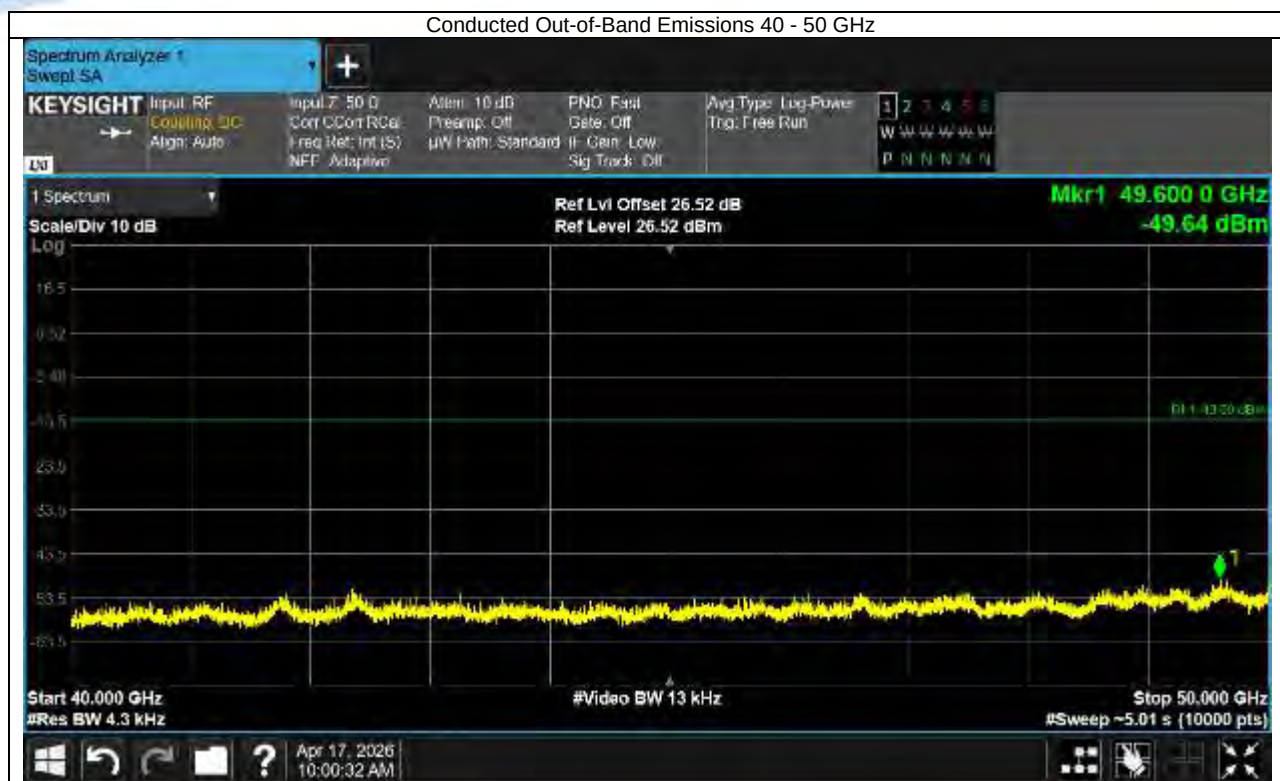
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ± 2.37 dB, > 40 GHz ± 4.6 dB

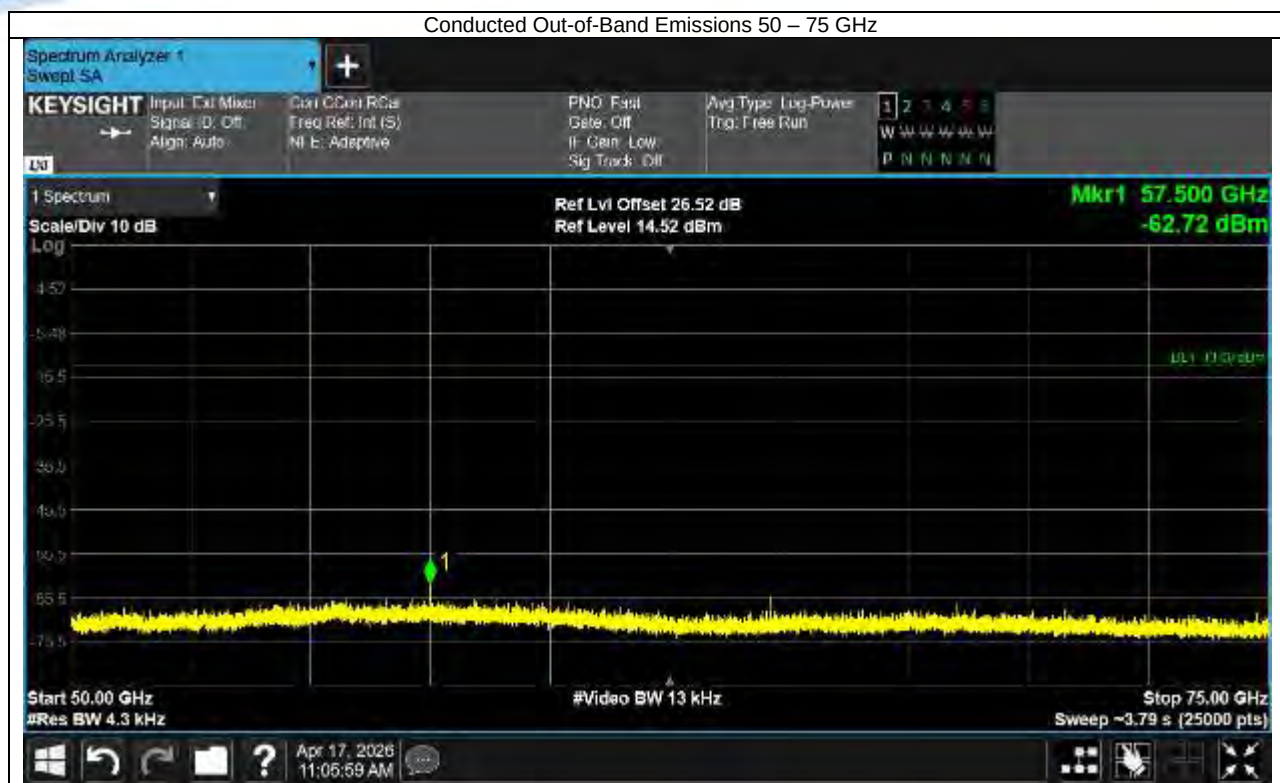


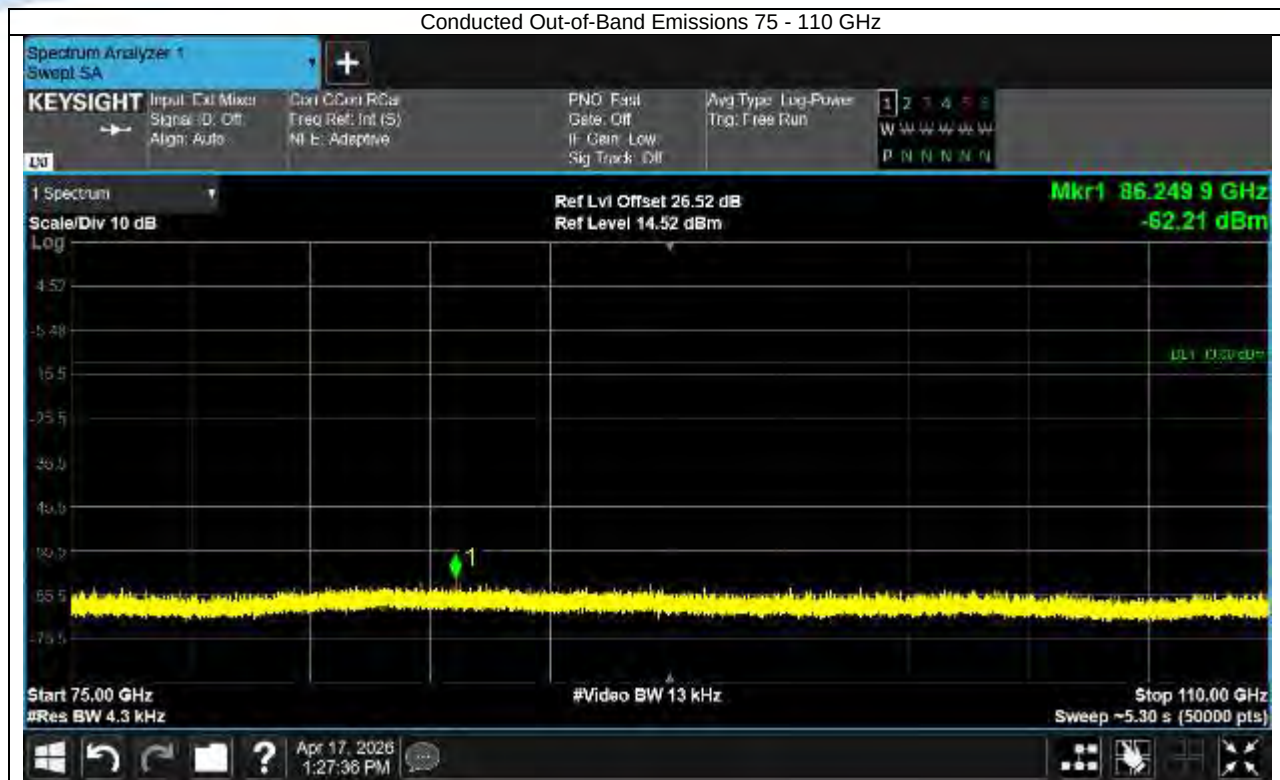




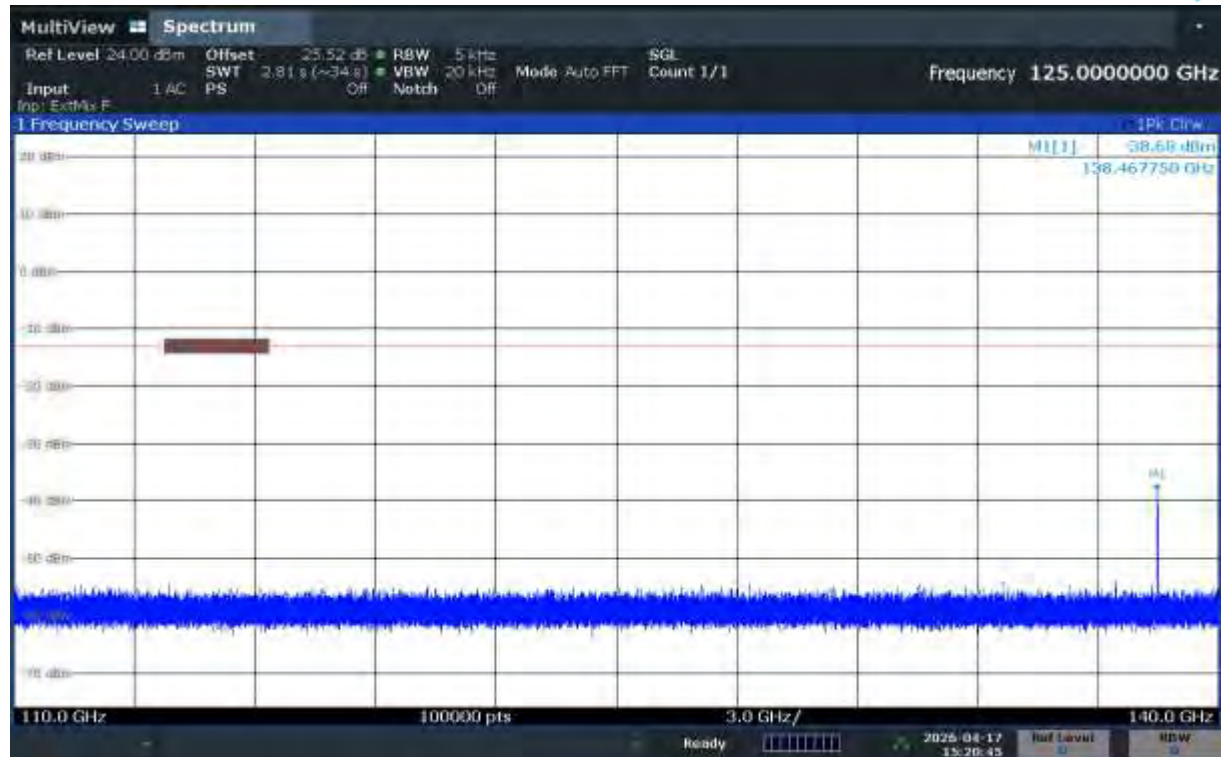






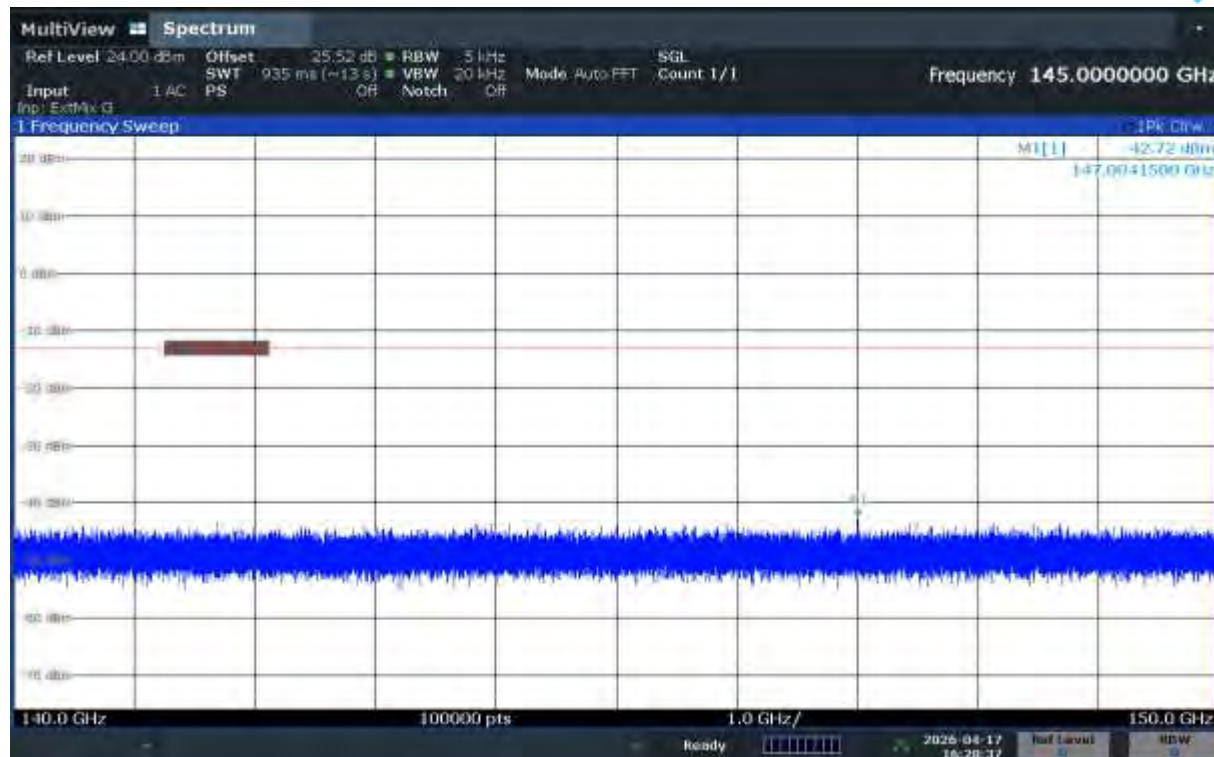


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:20:45

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:28:37

8.5.2.42. 8PSK 650KHz Mid Band High Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

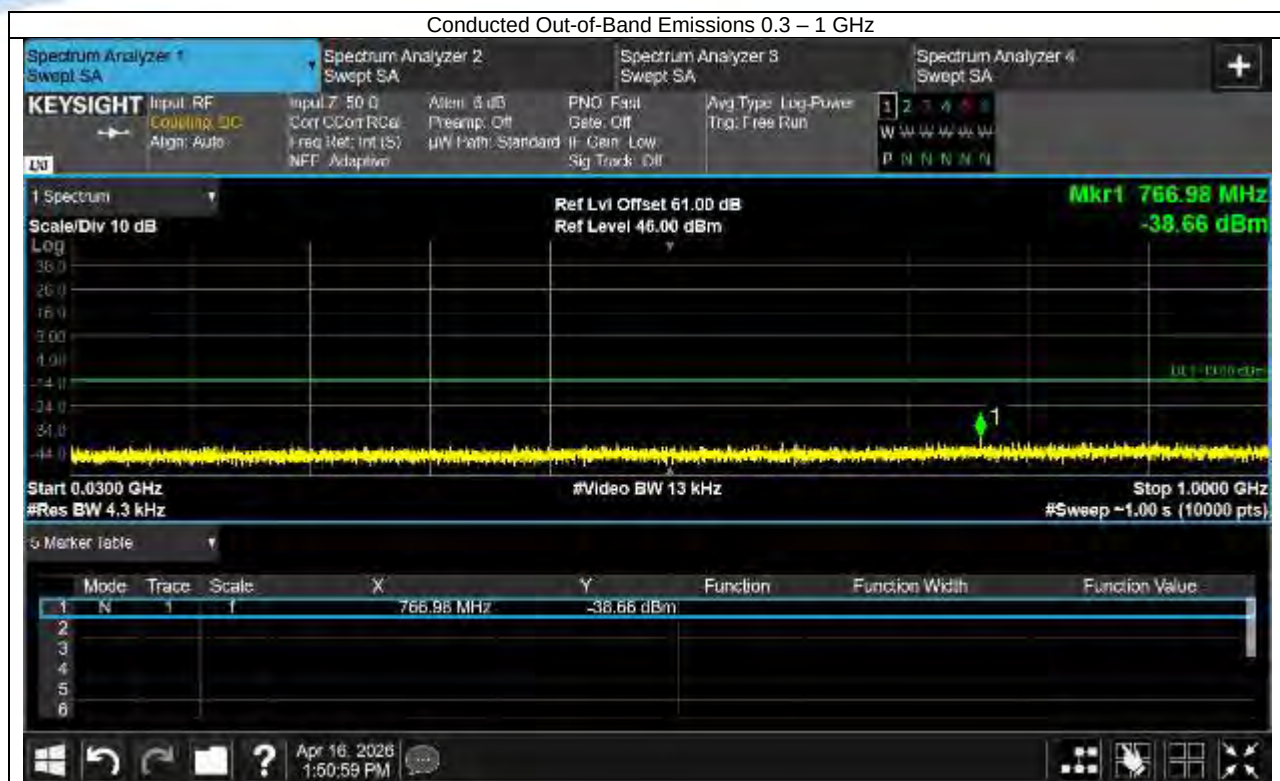
Variant:	650 KHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

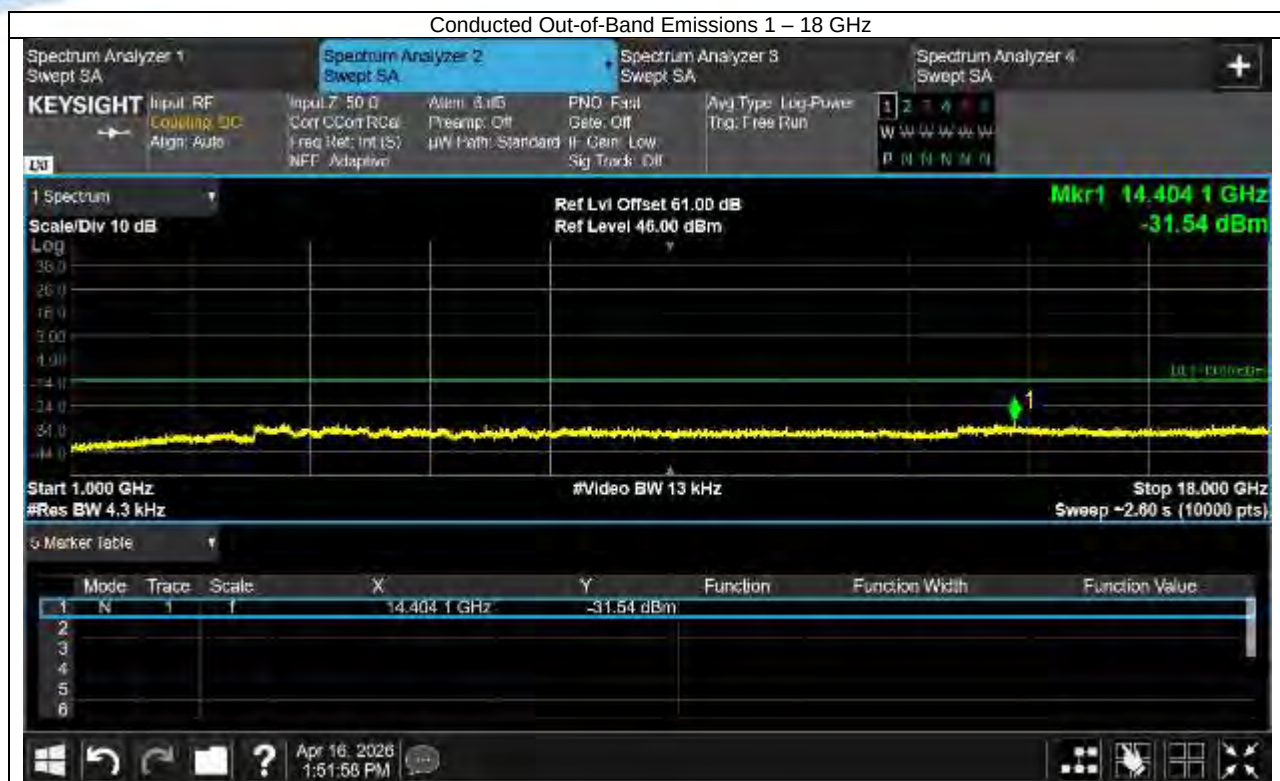
Test Measurement Results

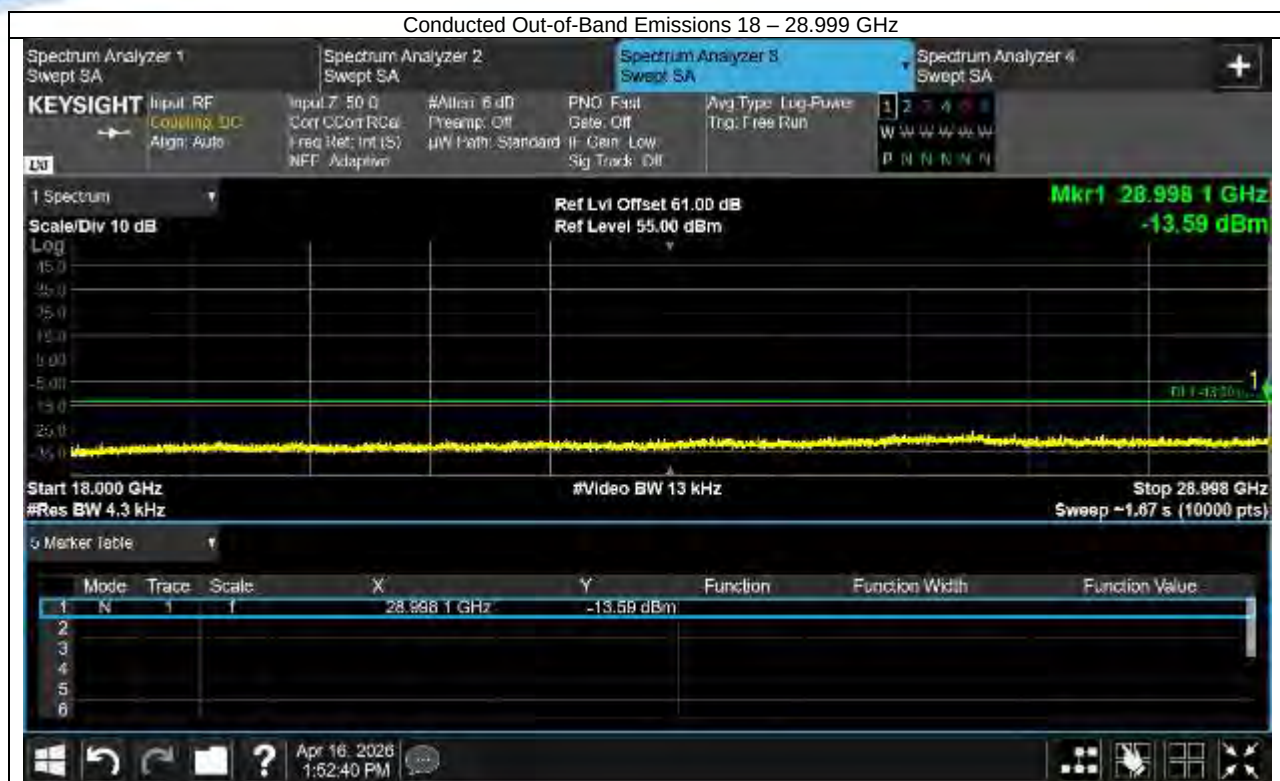
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 28999.676 MHz						
30MHz-1GHz	766.98	-38.66	--	-13.00	-25.66	Complies
1-18GHz	14404.10	-31.54	--	-13.00	-18.54	Complies
18-28.999GHz	28998.10	-13.59	--	-13.00	-0.59	Complies
29.001-40GHz	29001.30	-15.34	--	-13.00	-2.34	Complies
40-50GHz	49710.00	-49.94	--	-13.00	-36.94	Complies
50-75 GHz	65169.00	-60.84	-54.10	-13.00	-41.10	Complies
75-110GHz	86.998.90	-56.01	--	-13.00	-43.01	Complies
110-140GHz	139713.05	-38.11	-24.75	-13.00	-11.75	Complies
140-150GHz	147314.65	-43.14	--	-13.00	-30.14	Complies

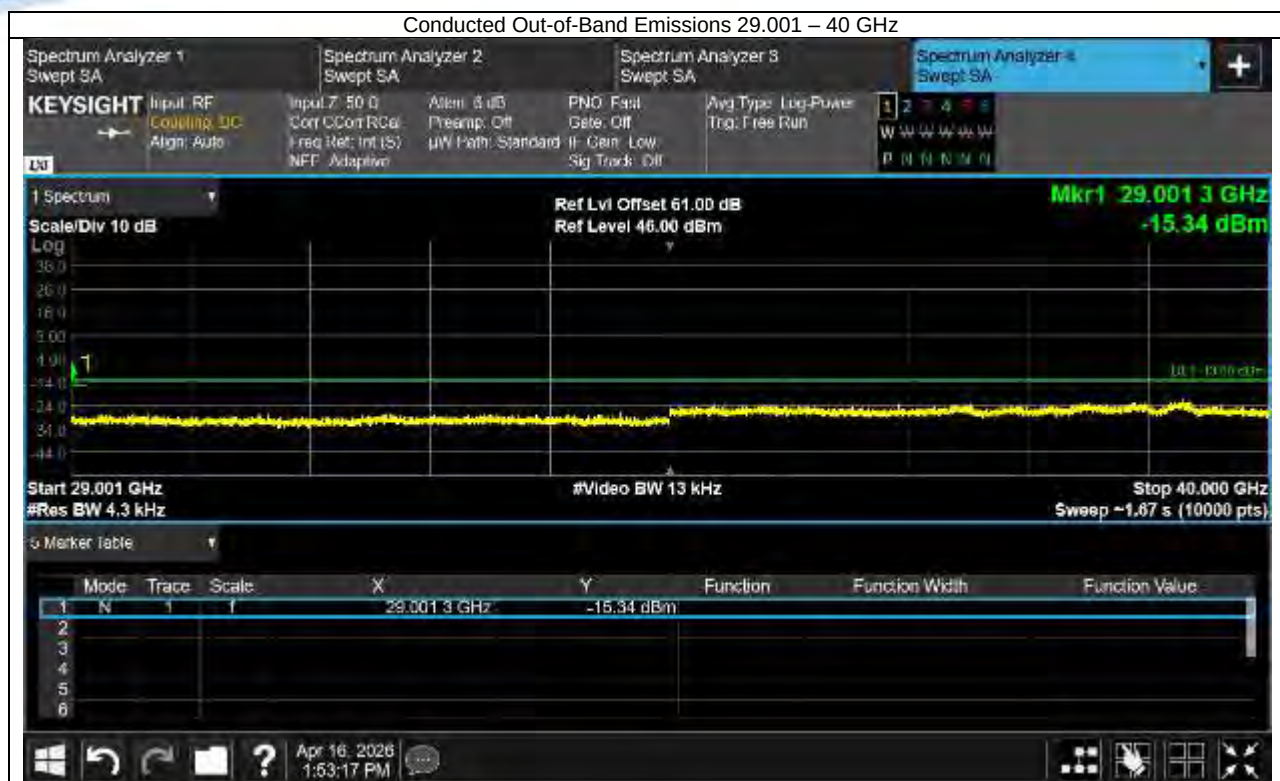
Traceability to Industry Recognized Test Methodologies

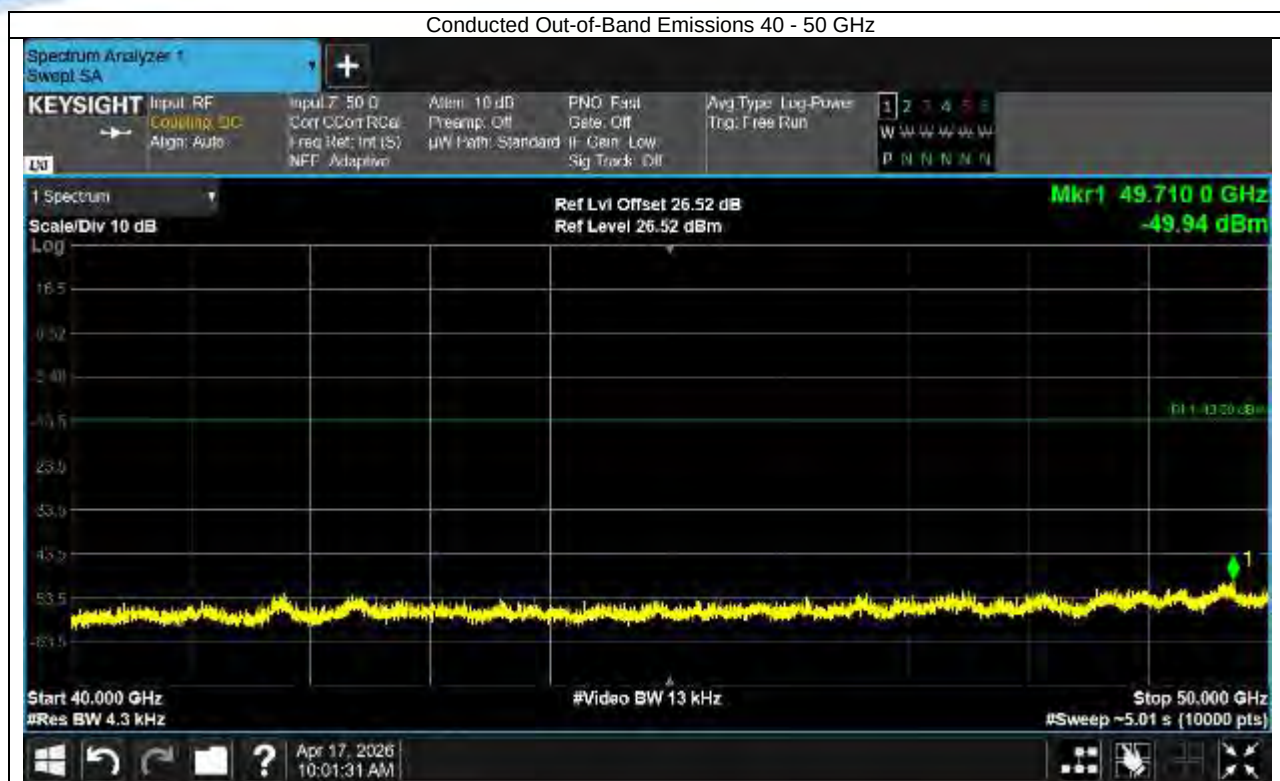
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

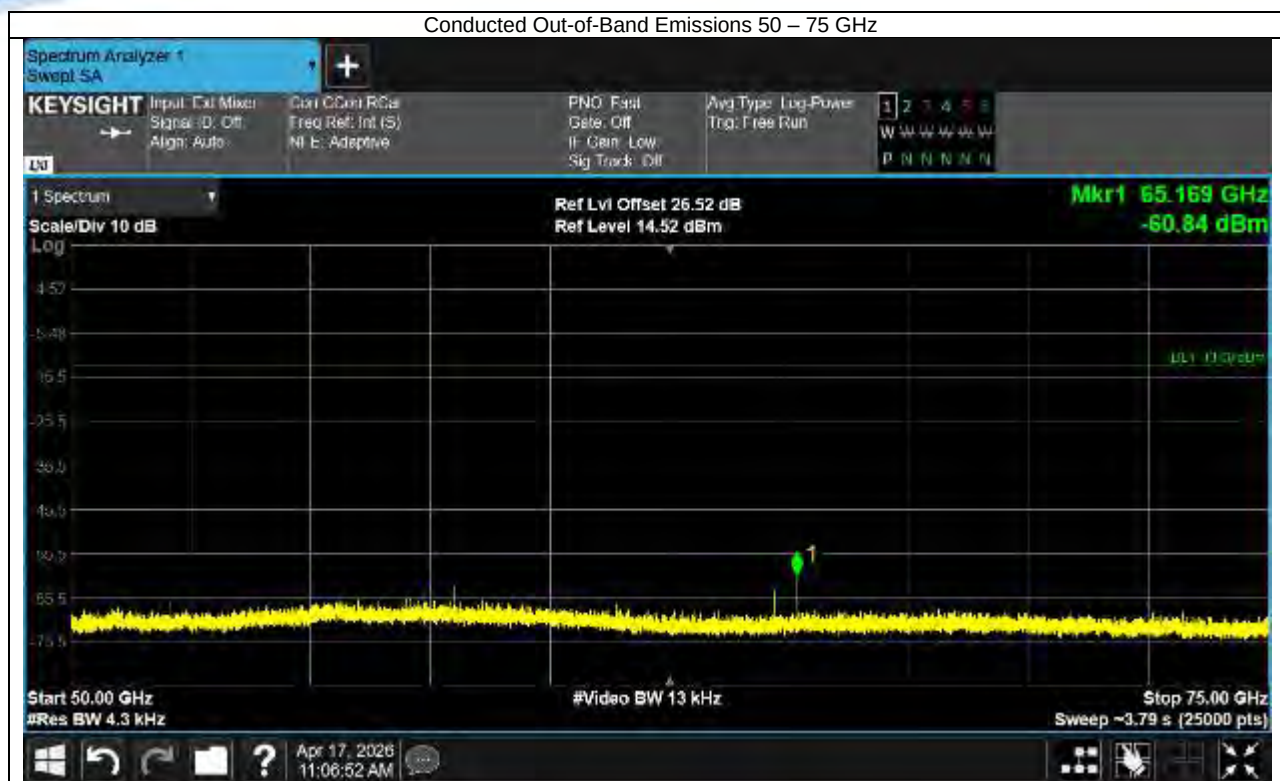


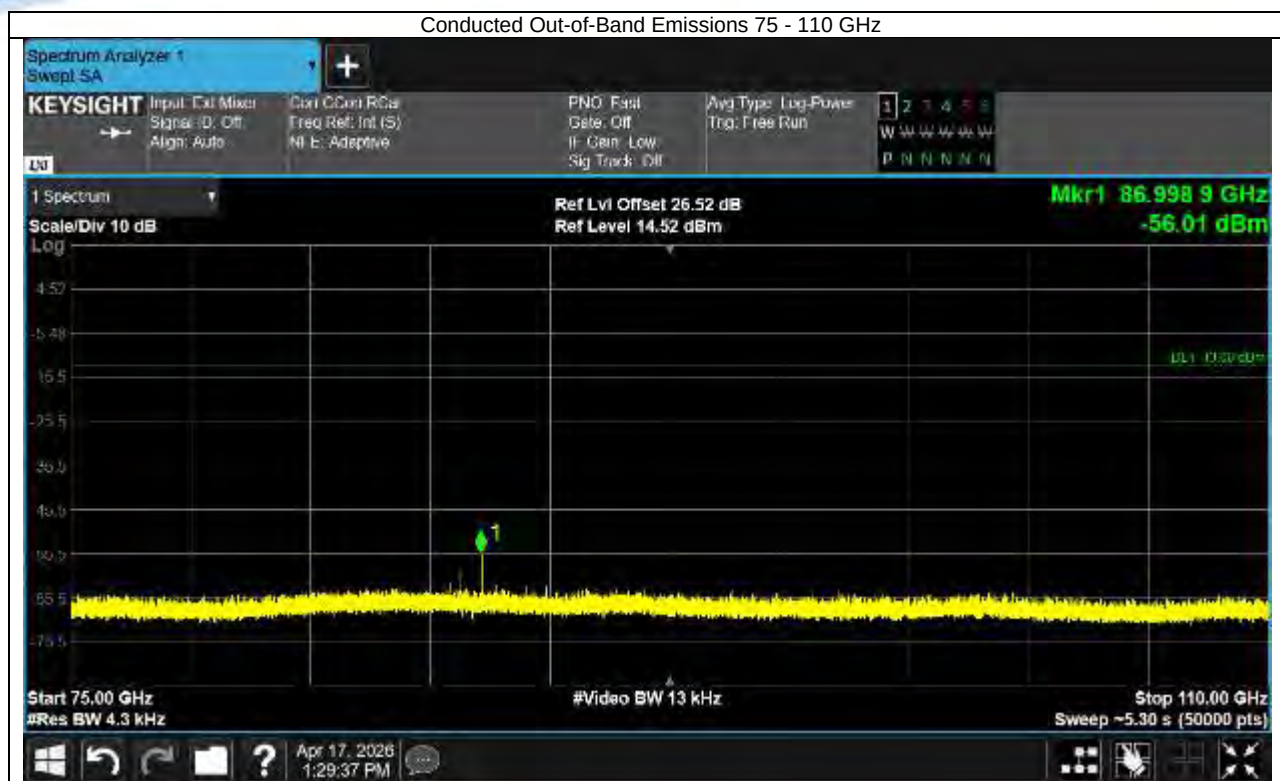




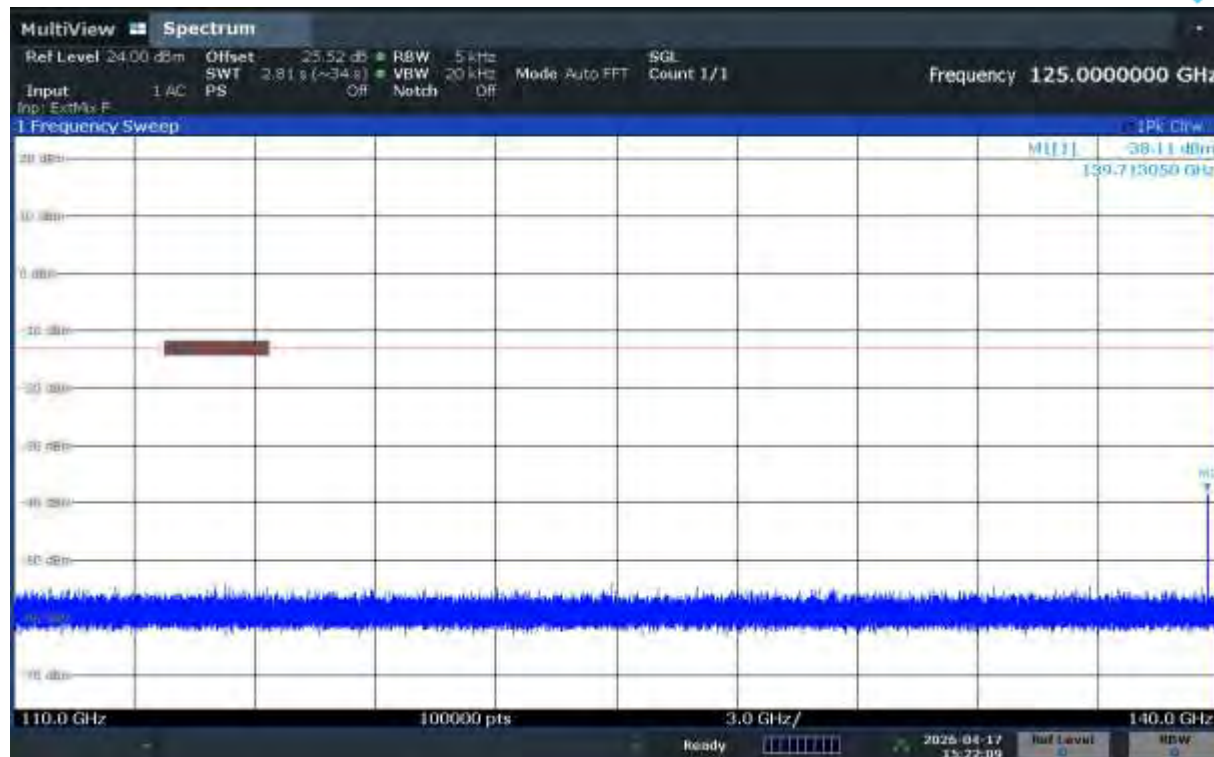






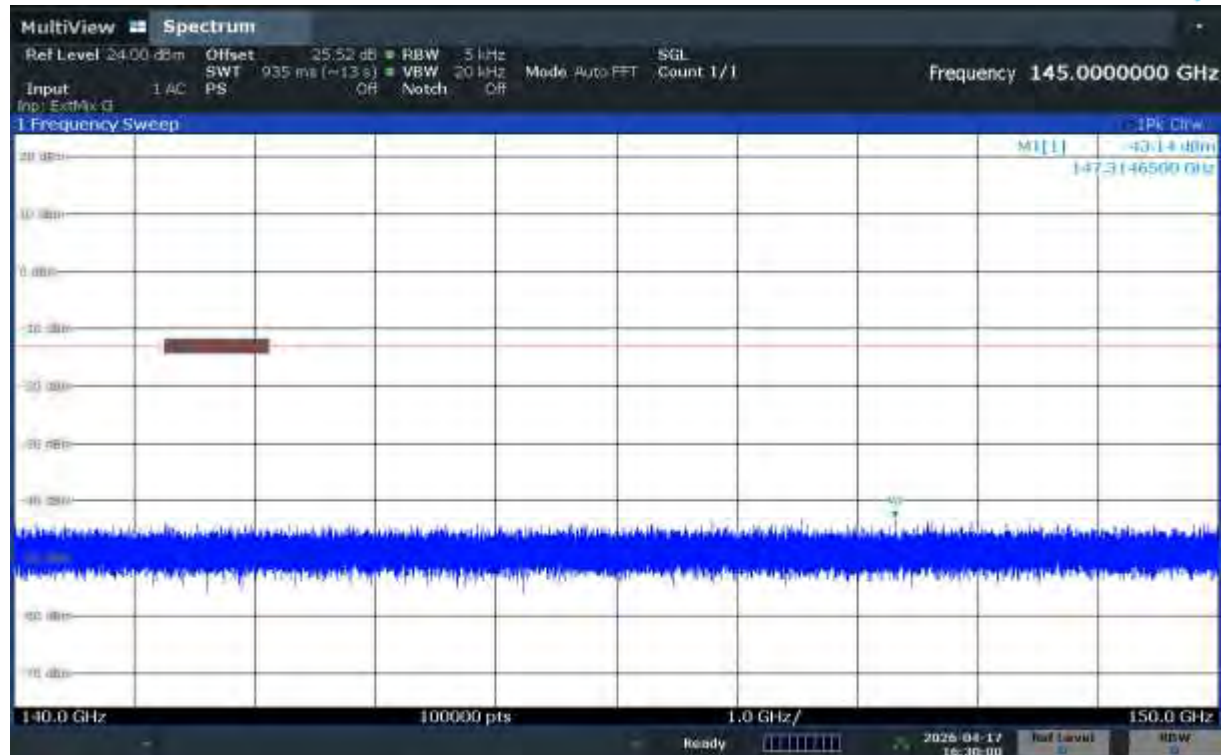


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:22:10

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:30:00

8.5.2.43. 8PSK 650KHz High Band Low Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

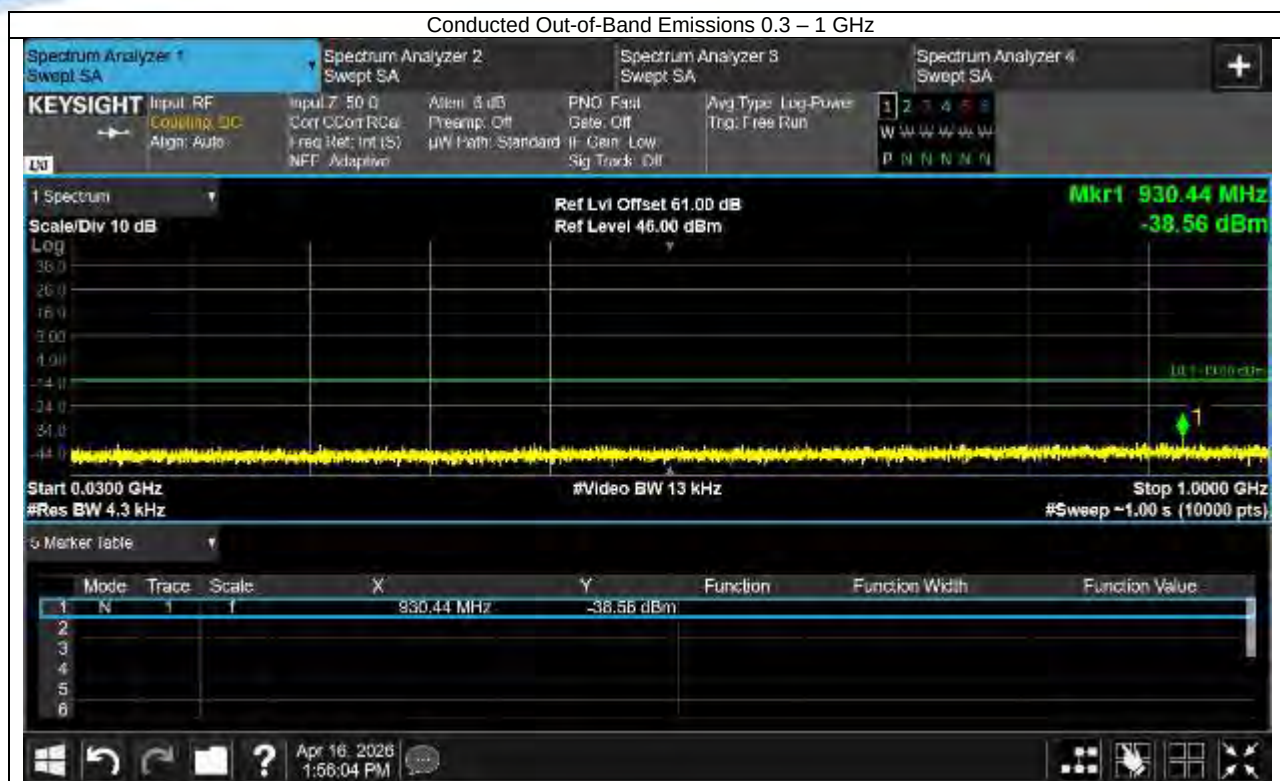
Variant:	650 KHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

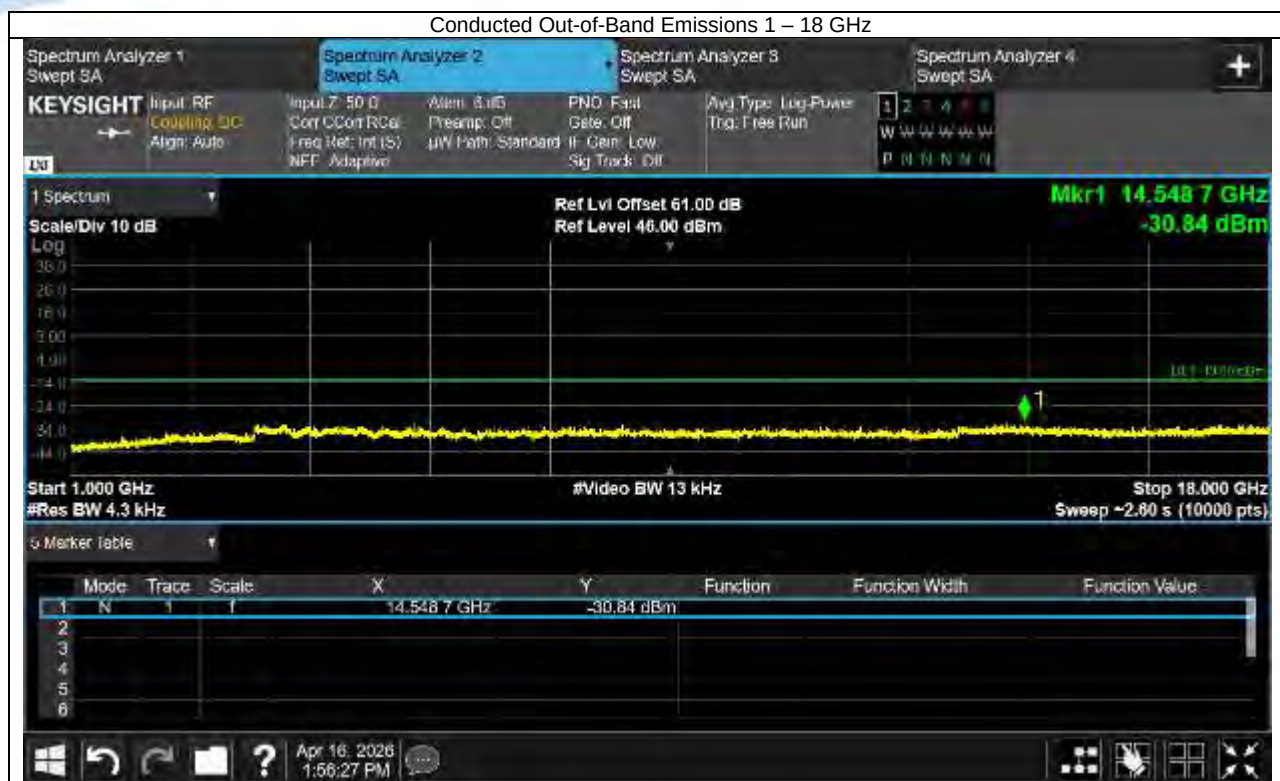
Test Measurement Results

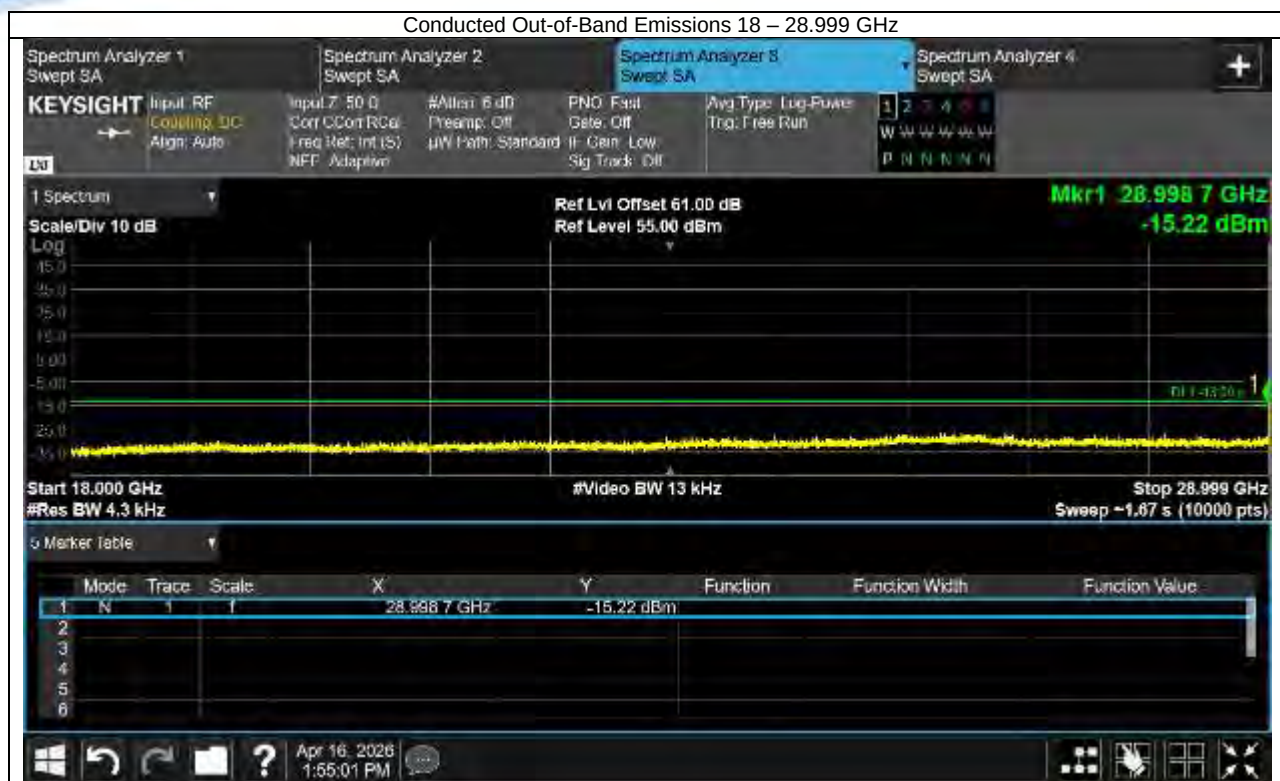
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 29000.324 MHz						
30MHz-1GHz	930.44	-38.56	--	-13.00	-25.56	Complies
1-18GHz	14548.70	-30.84	--	-13.00	-17.84	Complies
18-28.999GHz	28998.70	-15.22	--	-13.00	-2.22	Complies
29.001-40GHz	29001.90	-15.52	--	-13.00	-2.52	Complies
40-50GHz	48908.90	-49.74	--	-13.00	-36.74	Complies
50-75 GHz	65171.00	-60.84	-54.10	-13.00	-41.10	Complies
75-110GHz	87001.00	-57.61	--	-13.00	-44.61	Complies
110-140GHz	139745.75	-36.62	-23.26	-13.00	-10.26	Complies
140-150GHz	140604.75	-42.87	--	-13.00	-29.87	Complies

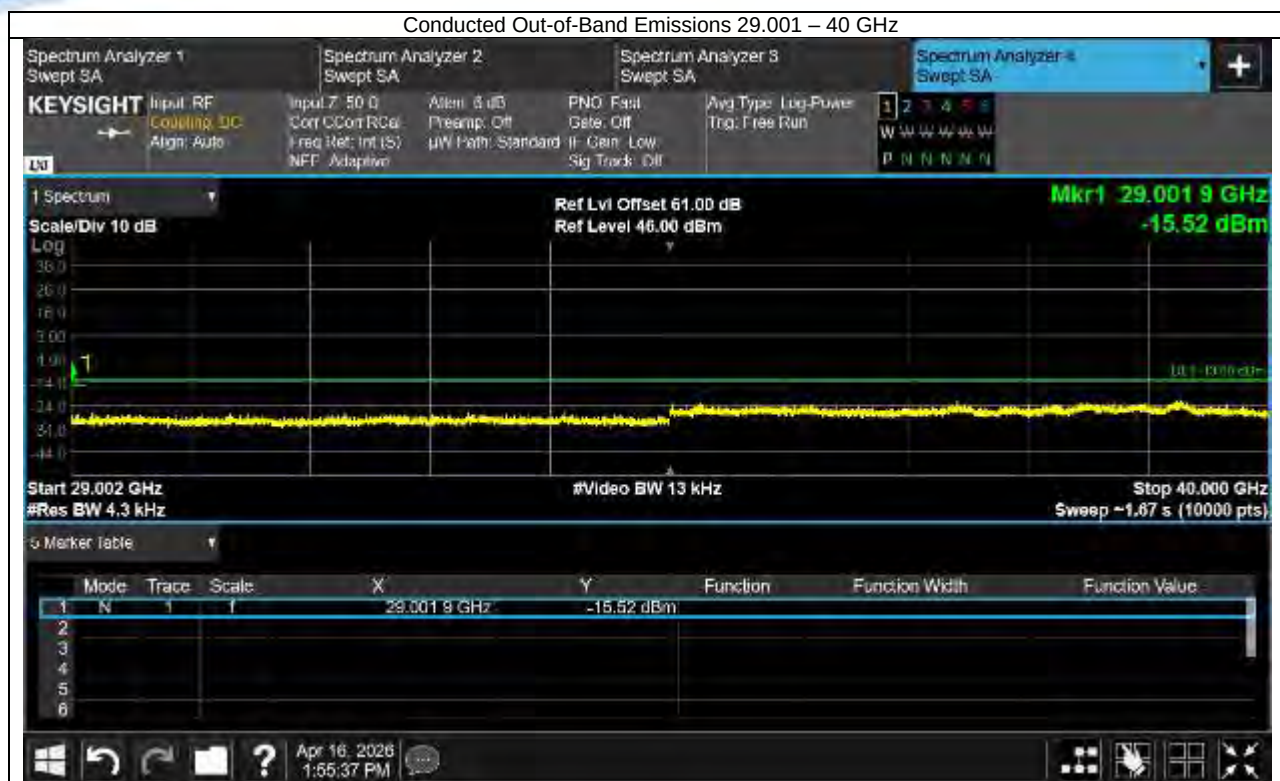
Traceability to Industry Recognized Test Methodologies

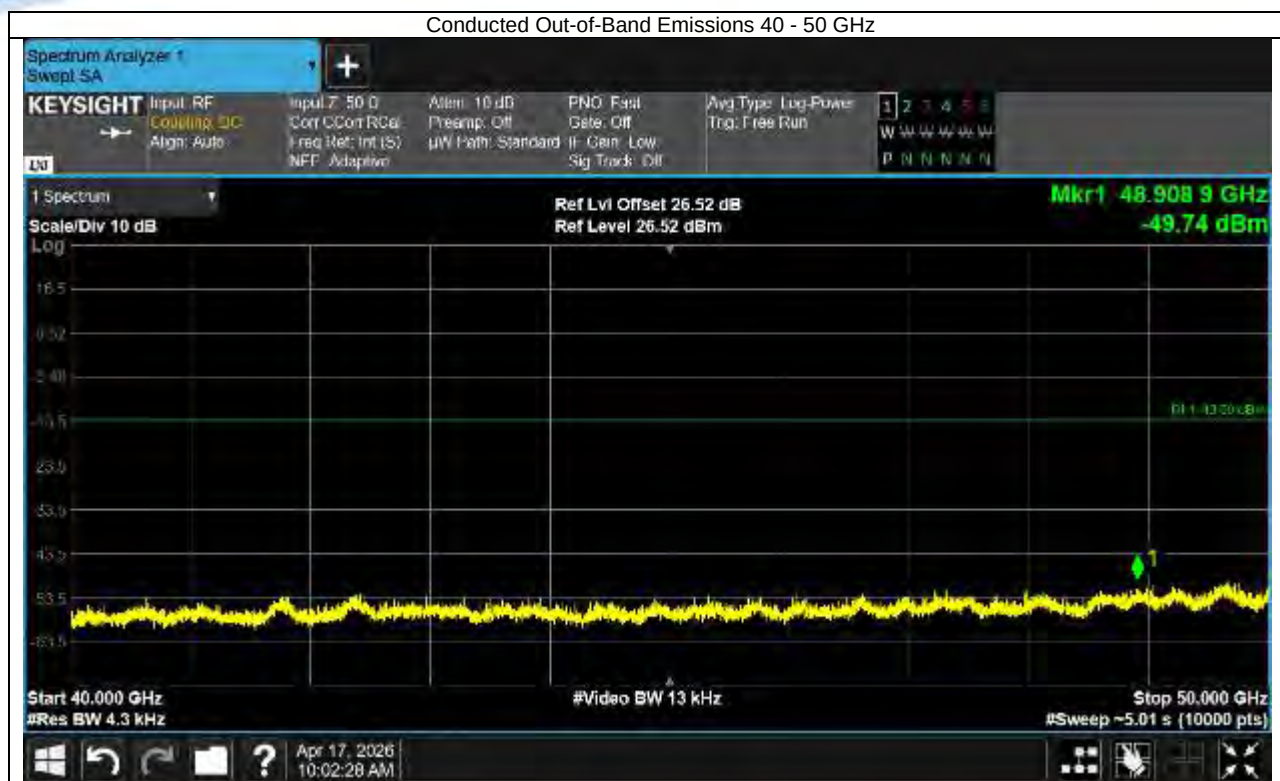
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ± 2.37 dB, > 40 GHz ± 4.6 dB

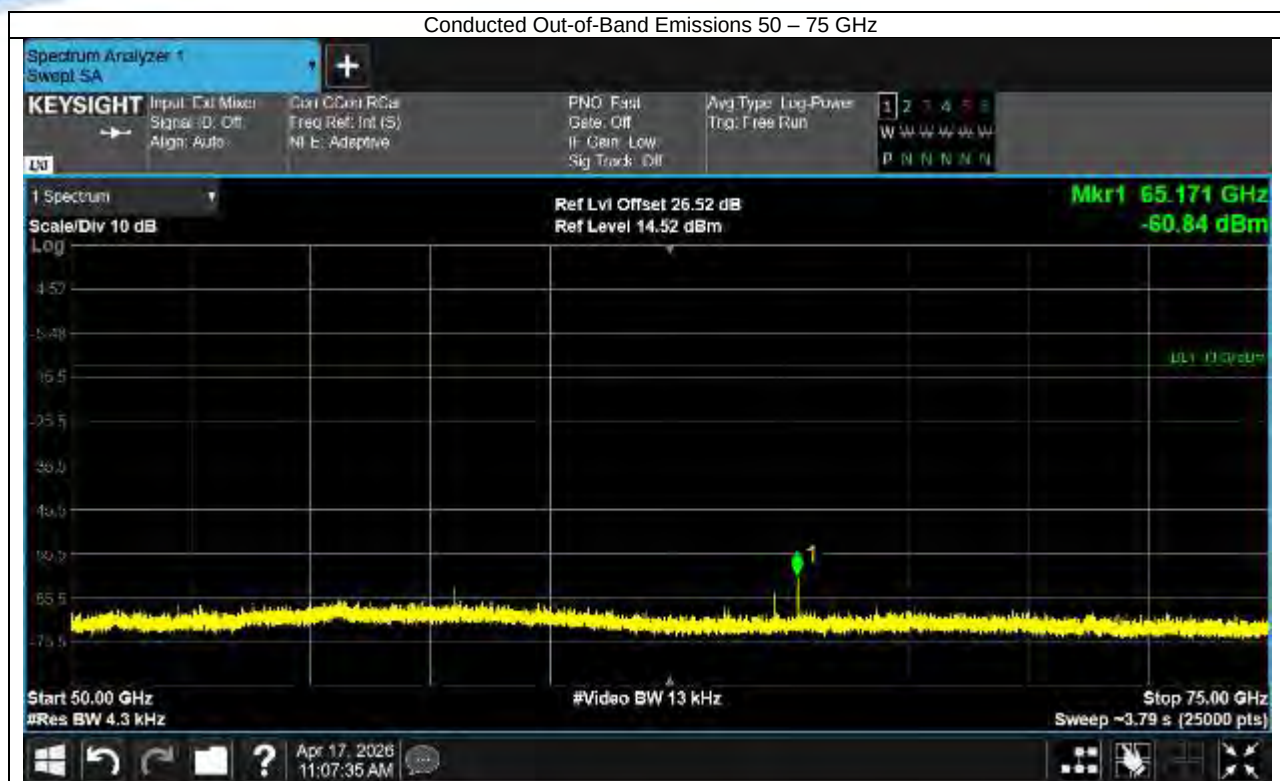


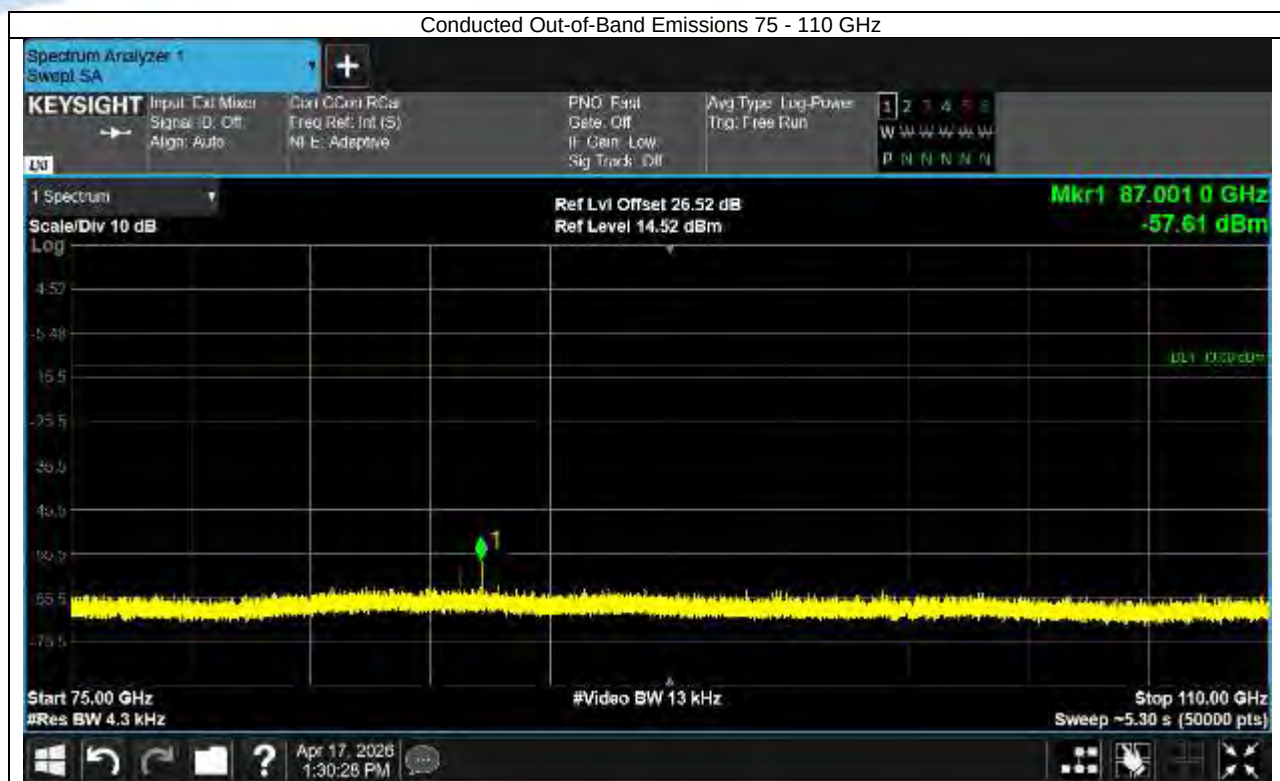




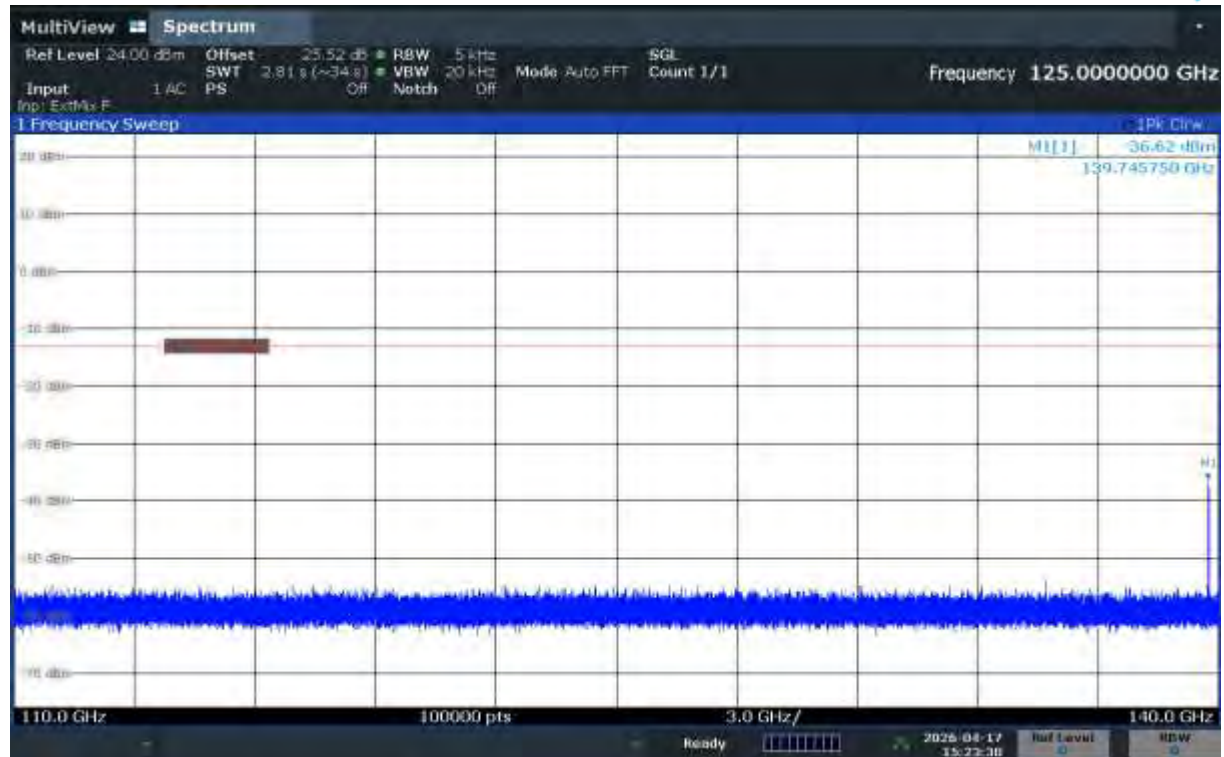






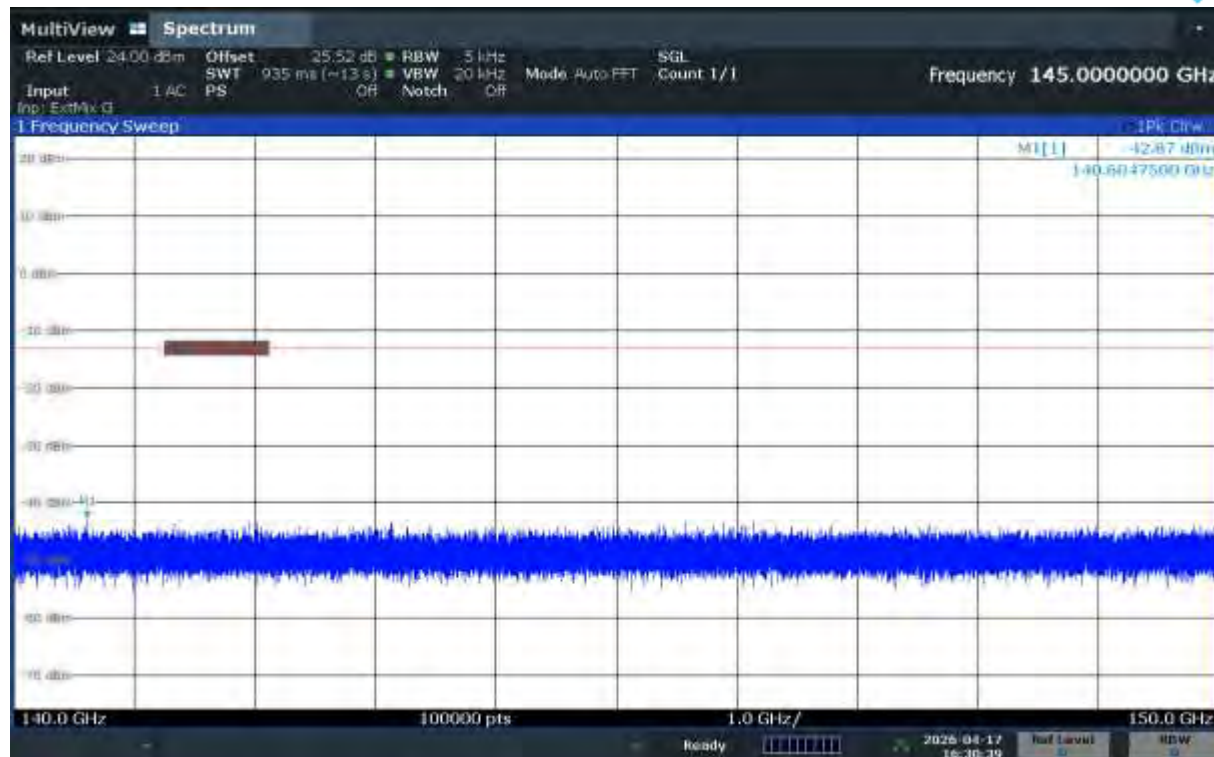


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:23:30

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:30:39

8.5.2.44. 8PSK 650KHz High Band Mid Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

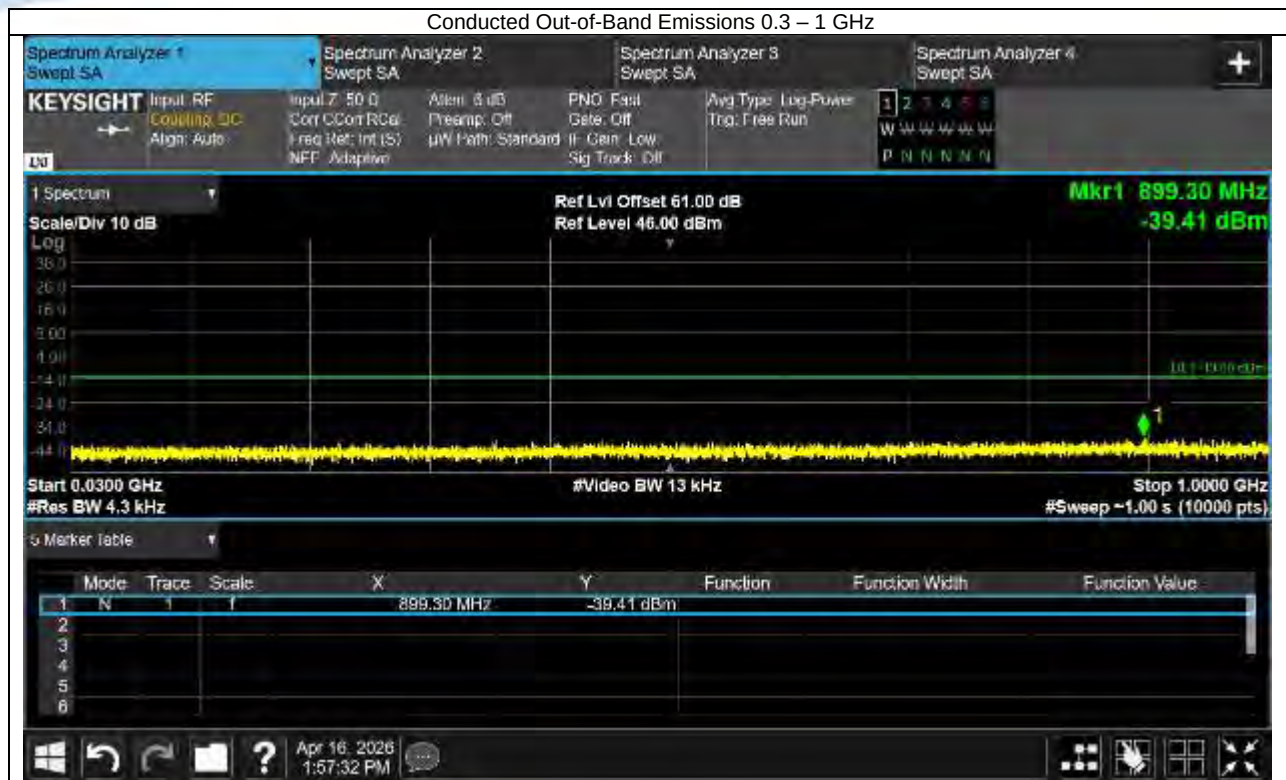
Variant:	650 KHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

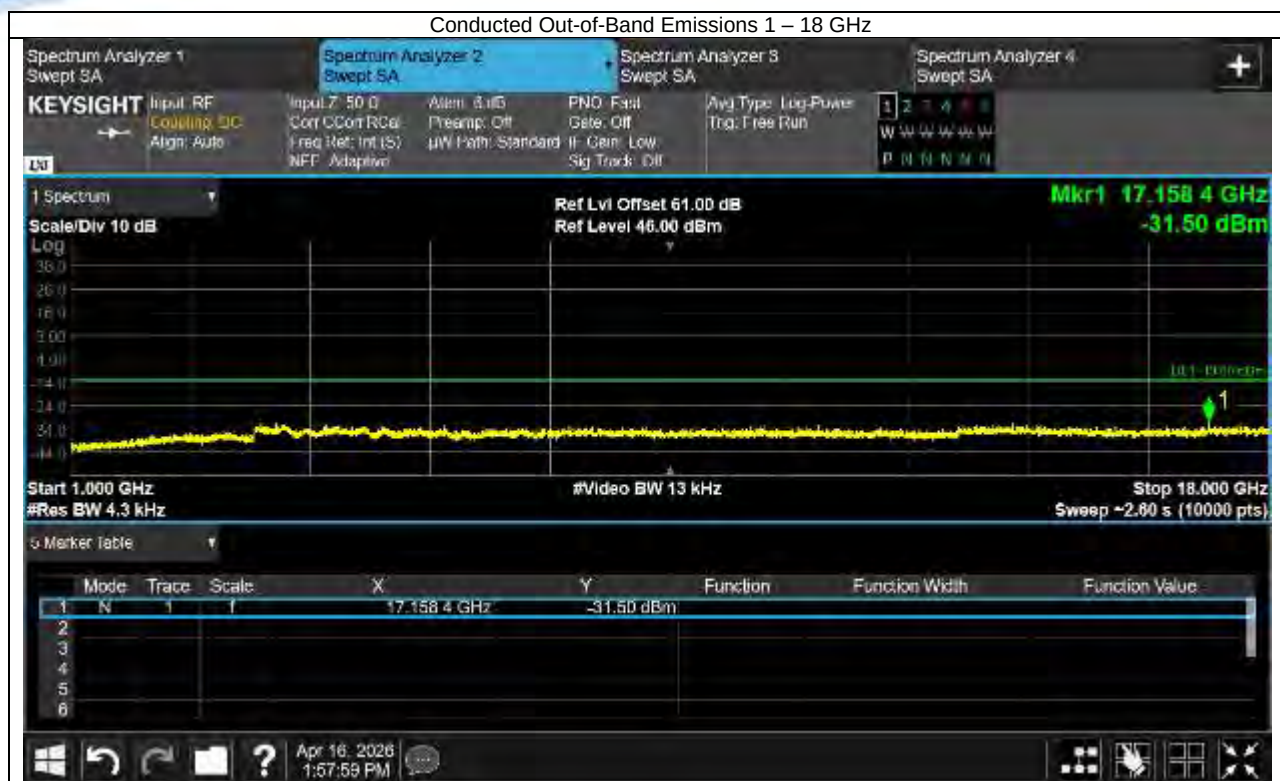
Test Measurement Results

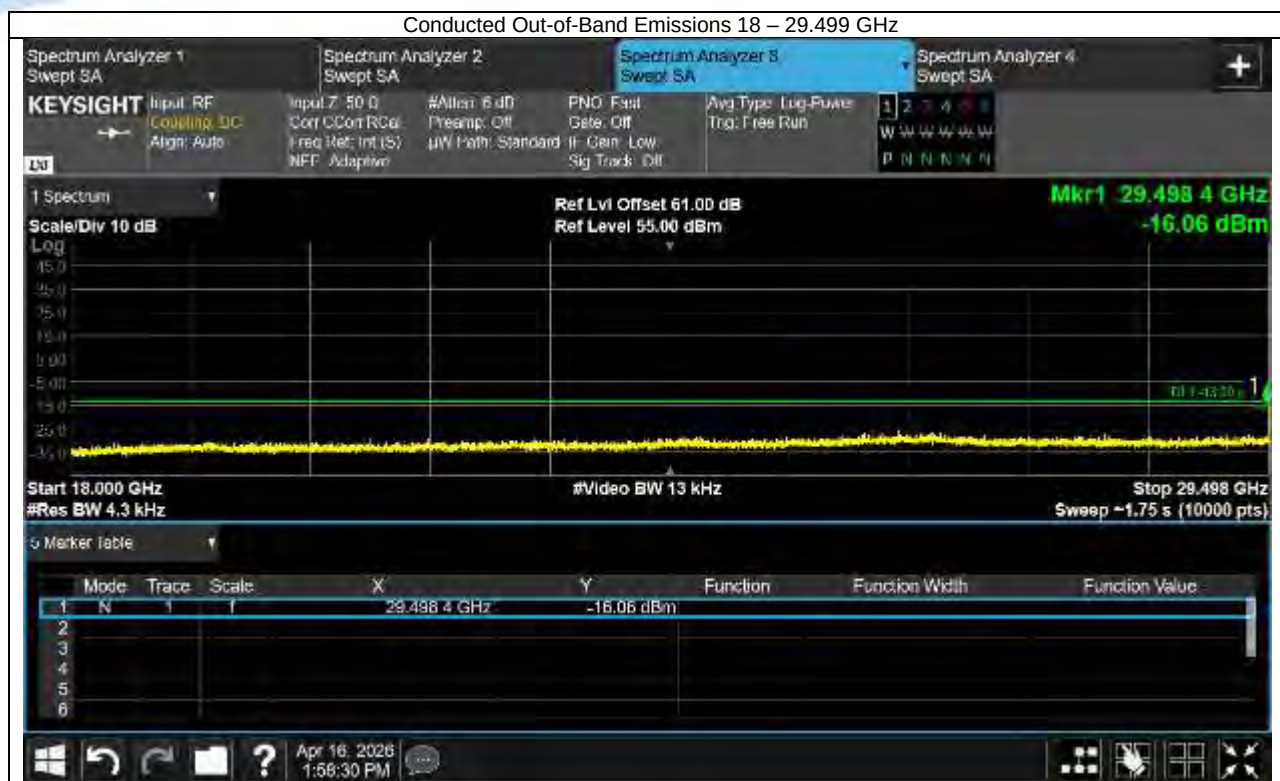
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 29500.00 MHz						
30MHz-1GHz	899.30	-39.41	--	-13.00	-26.41	Complies
1-18GHz	17158.40	-31.50	--	-13.00	-18.50	Complies
18-29.499GHz	29498.40	-16.06	--	-13.00	-3.06	Complies
29.501-40GHz	29501.60	-13.61	--	-13.00	-0.61	Complies
40-50GHz	49977.00	-50.52	--	-13.00	-37.52	Complies
50-75 GHz	66295.00	-54.88	-47.99	-13.00	-34.99	Complies
75-110GHz	88499.80	-51.33	--	-13.00	-38.33	Complies
110-140GHz	110459.15	-54.29	-42.97	-13.00	-29.97	Complies
140-150GHz	145496.45	-42.31	--	-13.00	-29.31	Complies

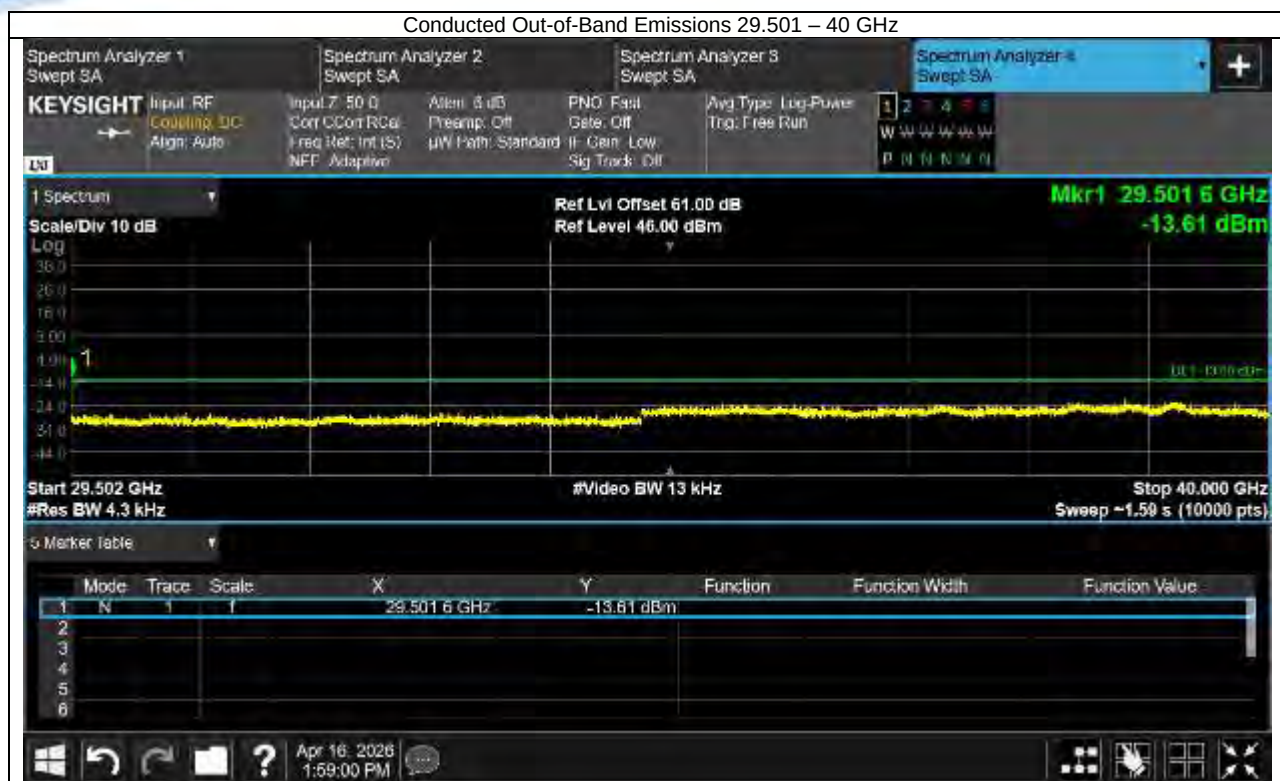
Traceability to Industry Recognized Test Methodologies

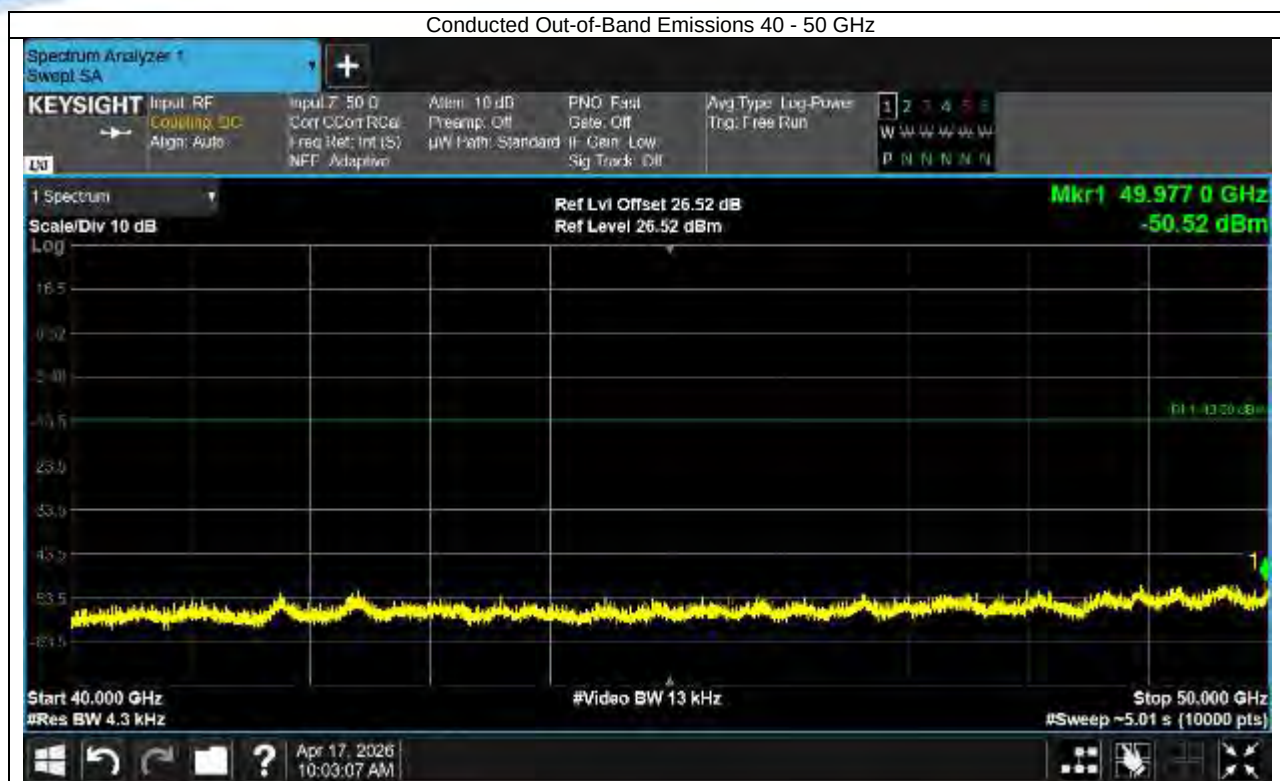
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ± 2.37 dB, > 40 GHz ± 4.6 dB

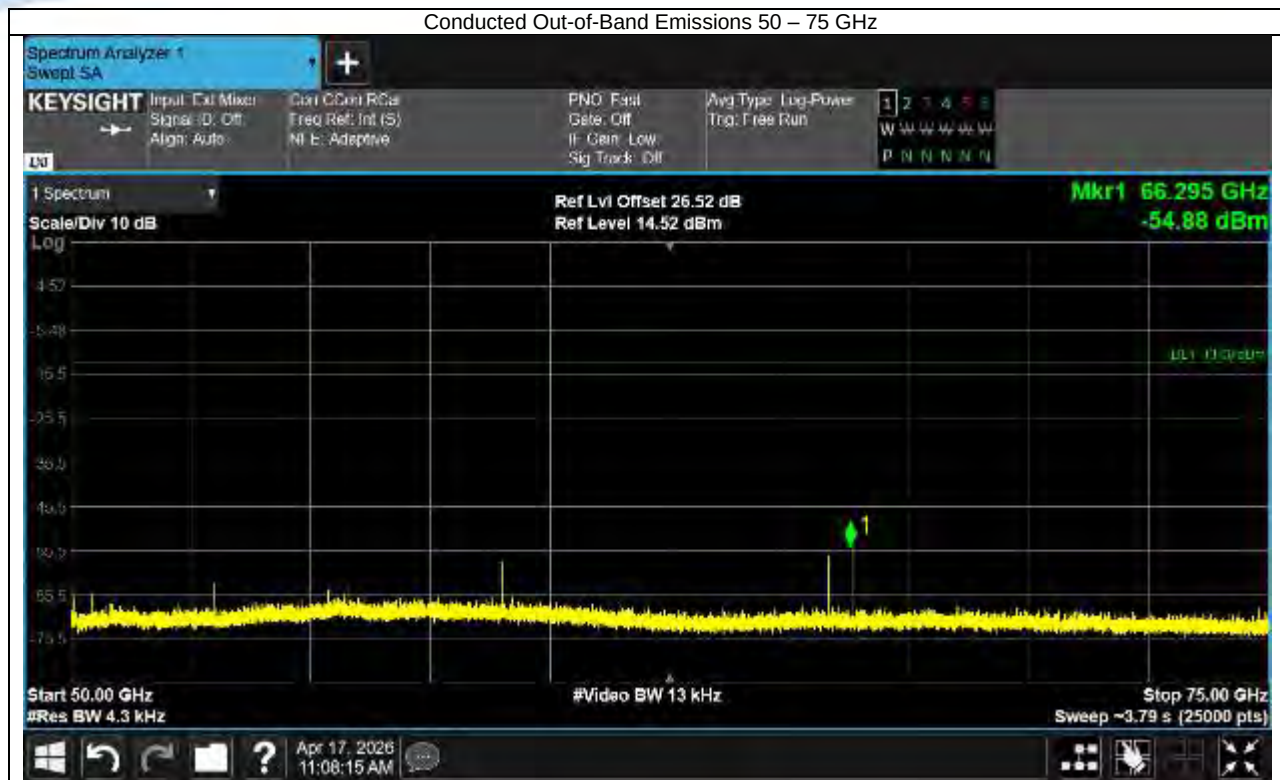


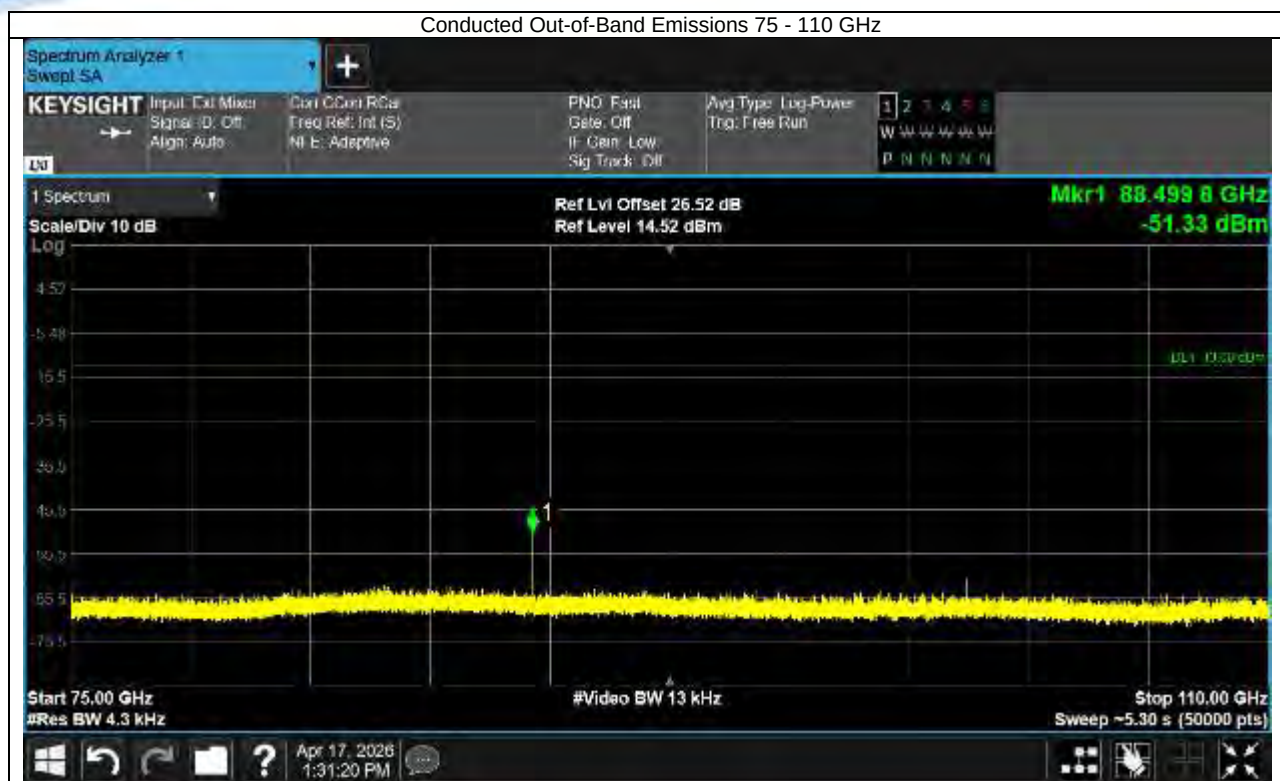




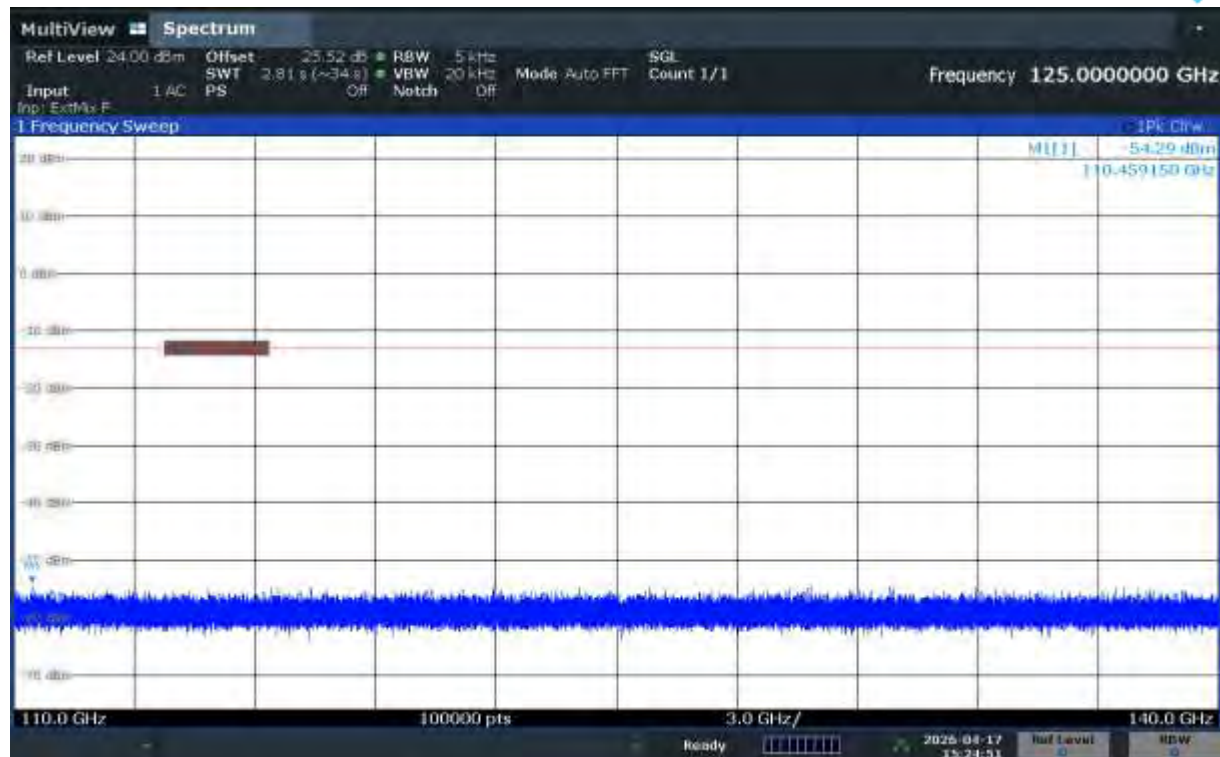






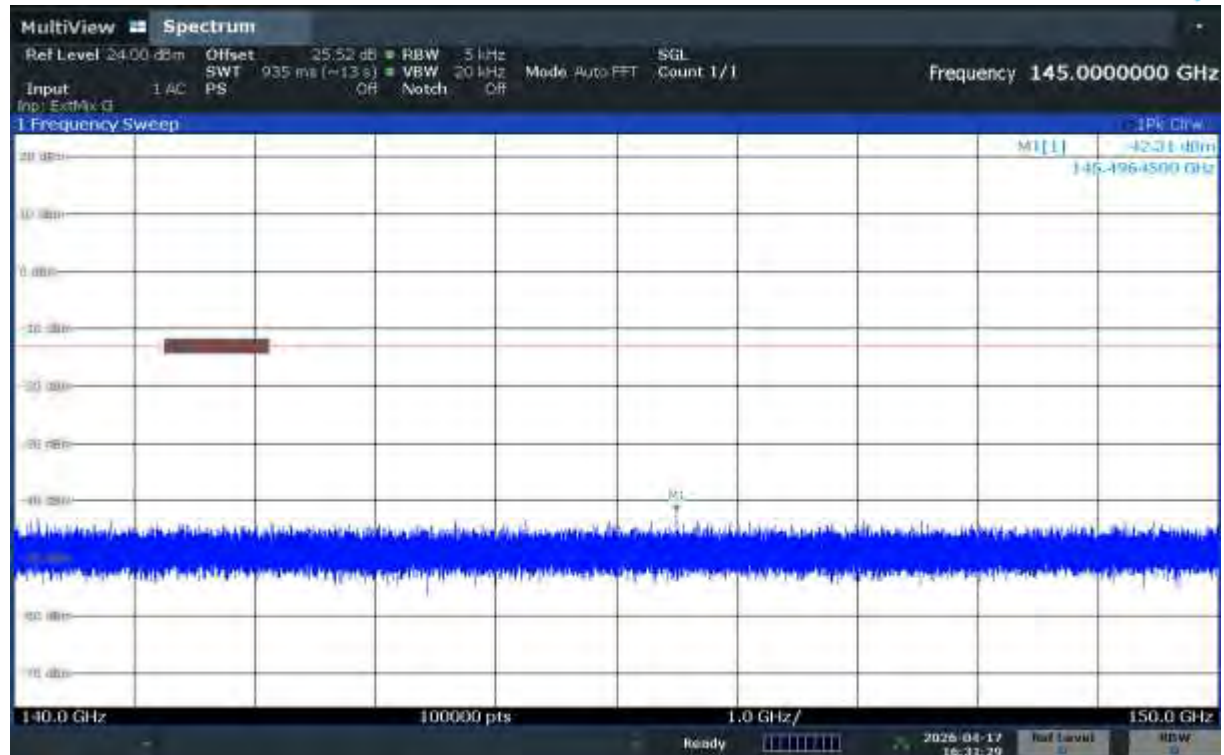


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:24:52

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:31:29

8.5.2.45. 8PSK 650KHz High Band High Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

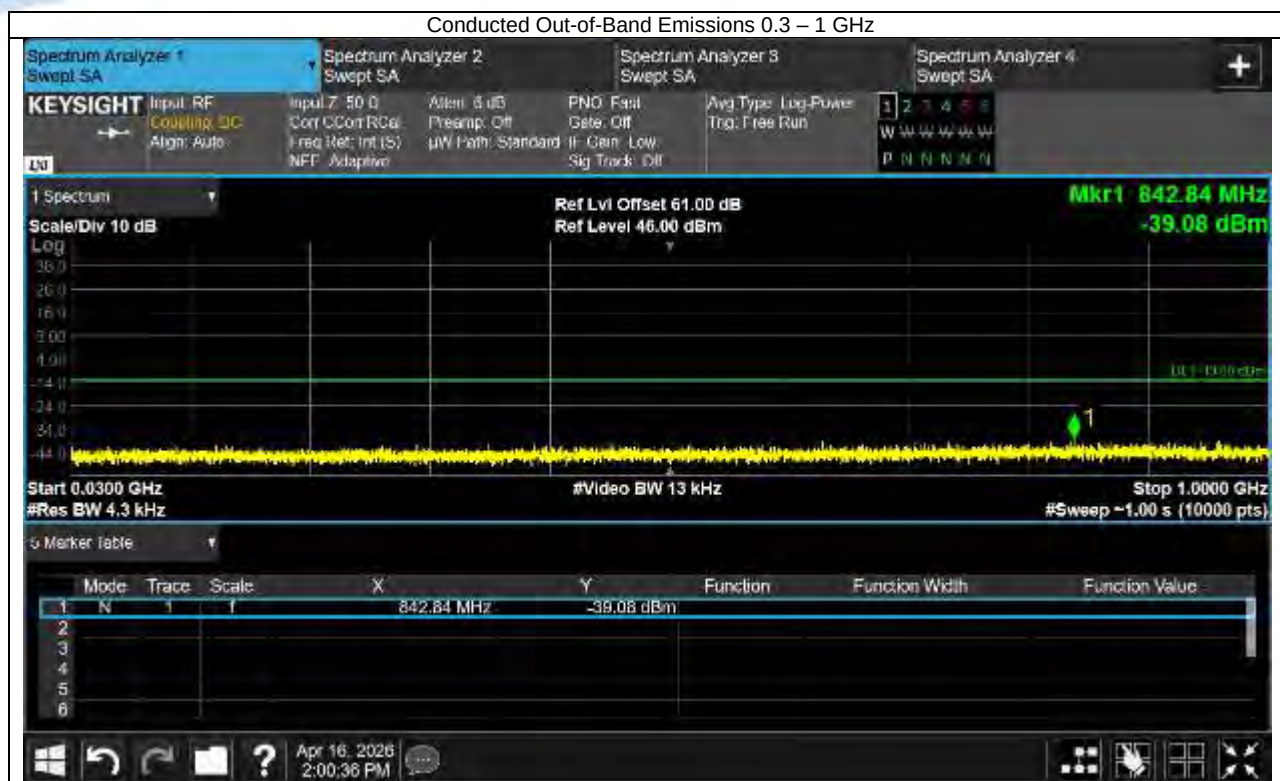
Variant:	650 KHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

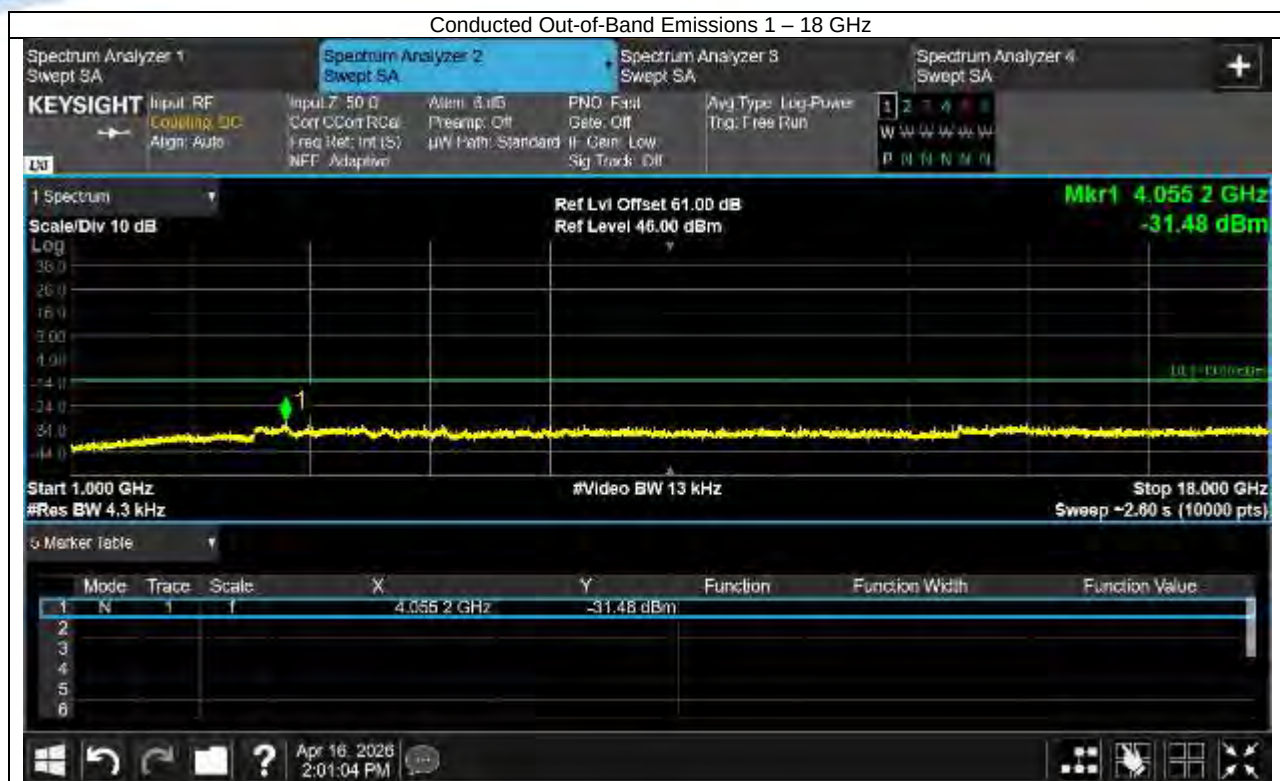
Test Measurement Results

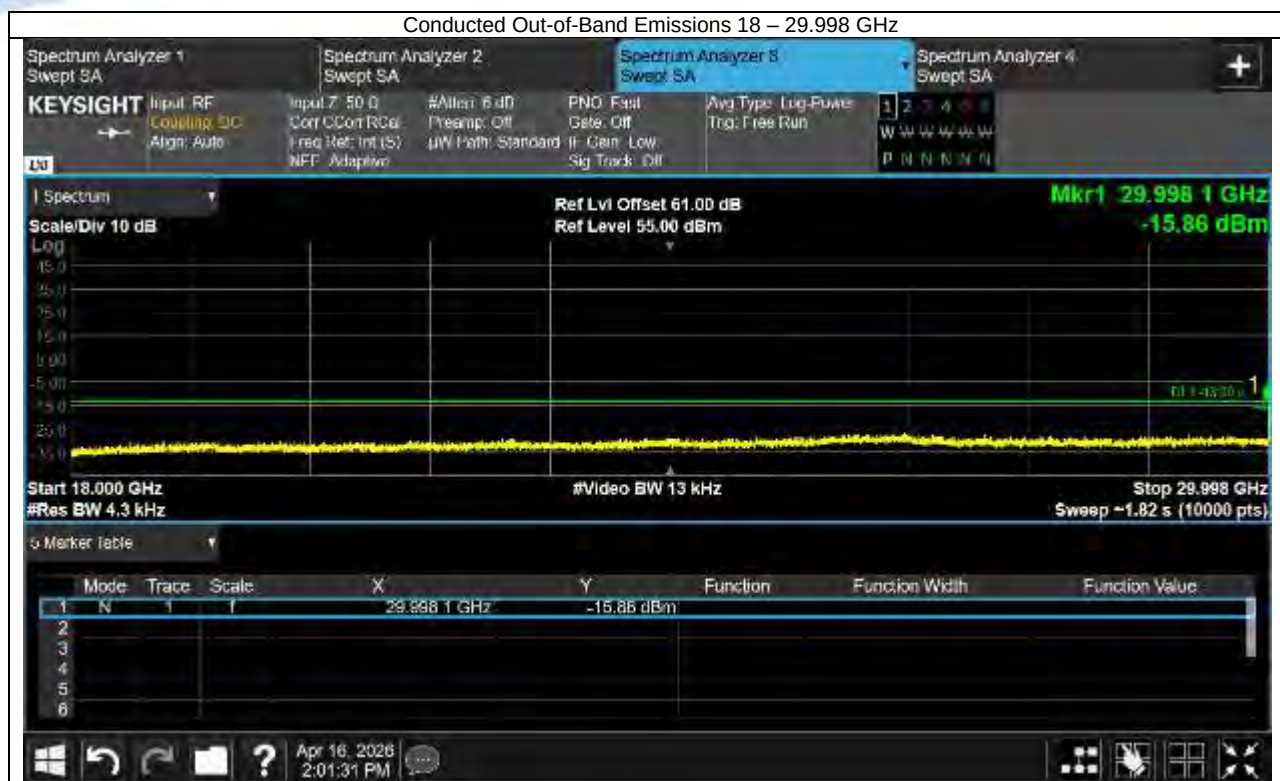
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 29996.475 MHz						
30MHz-1GHz	842.84	-39.08	--	-13.00	-26.08	Complies
1-18GHz	4055.20	-31.48	--	-13.00	-18.48	Complies
18-29.998GHz	29998.10	-15.86	--	-13.00	-2.86	Complies
30.001-40GHz	30001.30	-17.52	--	-13.00	-4.52	Complies
40-50GHz	49653.00	-50.31	--	-13.00	-37.31	Complies
50-75 GHz	67419.00	-51.32	-44.29	-13.00	-31.29	Complies
75-110GHz	89999.20	-46.60	--	-13.00	-33.60	Complies
110-140GHz	110034.05	-53.97	-42.68	-13.00	-29.68	Complies
140-150GHz	143917.25	-41.90	--	-13.00	-28.90	Complies

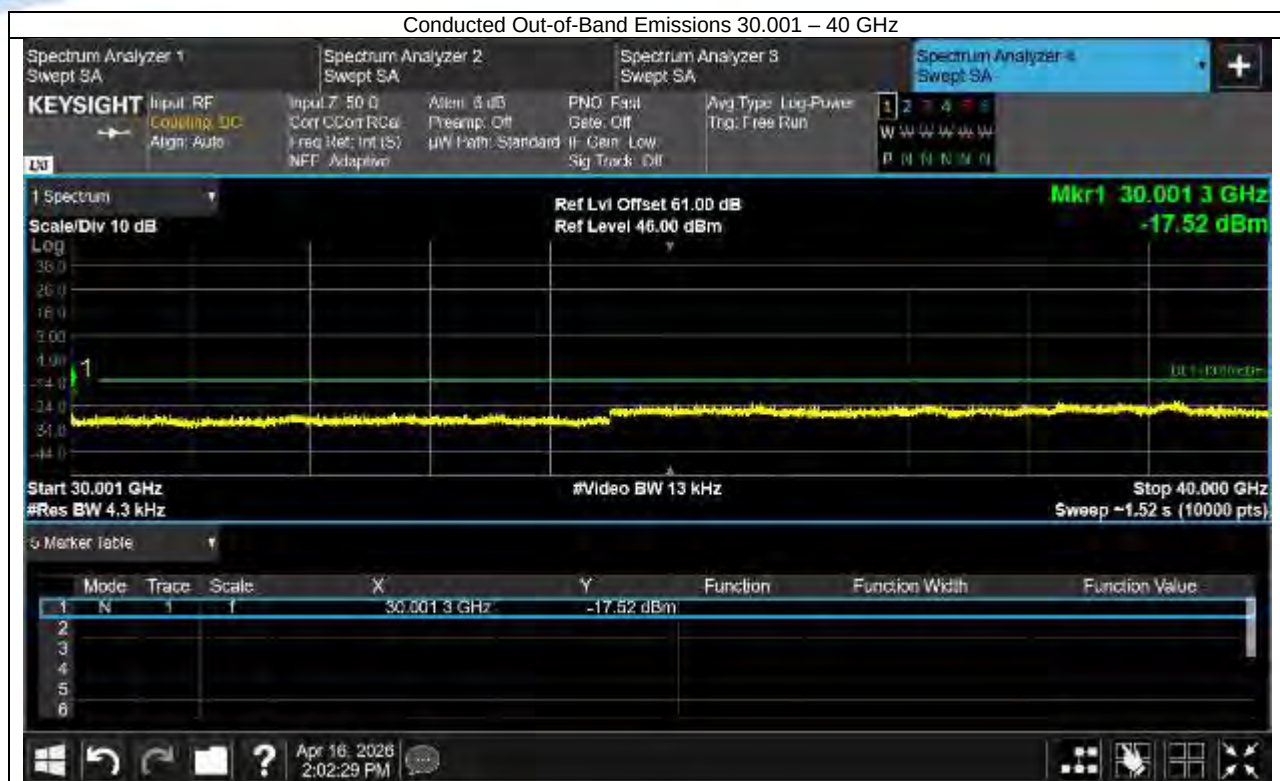
Traceability to Industry Recognized Test Methodologies

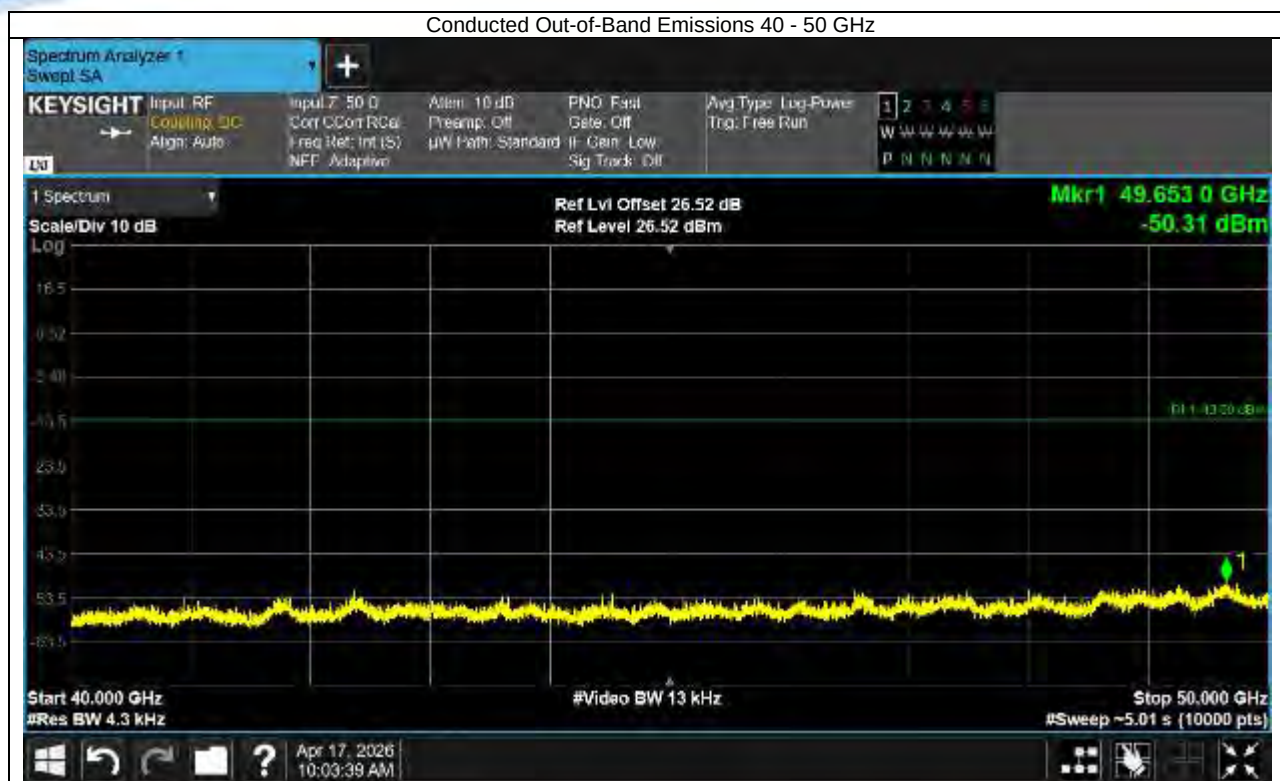
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ± 2.37 dB, > 40 GHz ± 4.6 dB

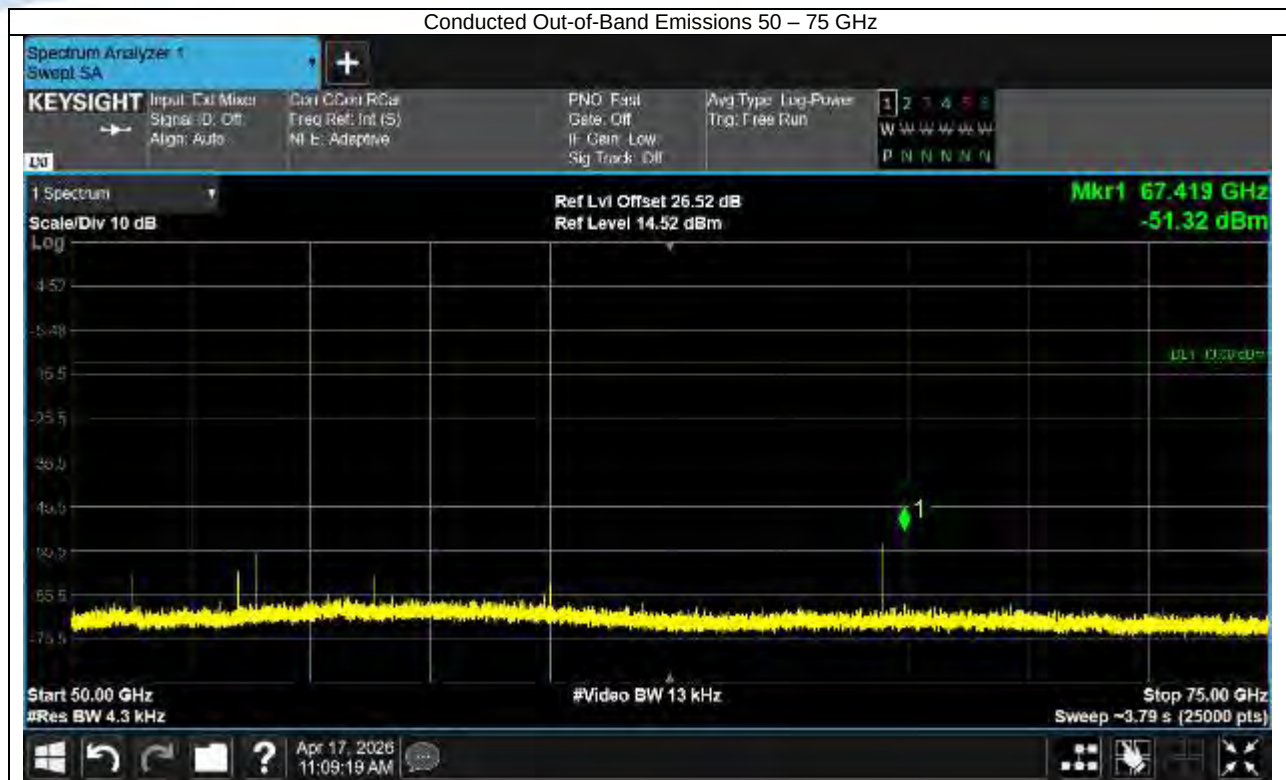


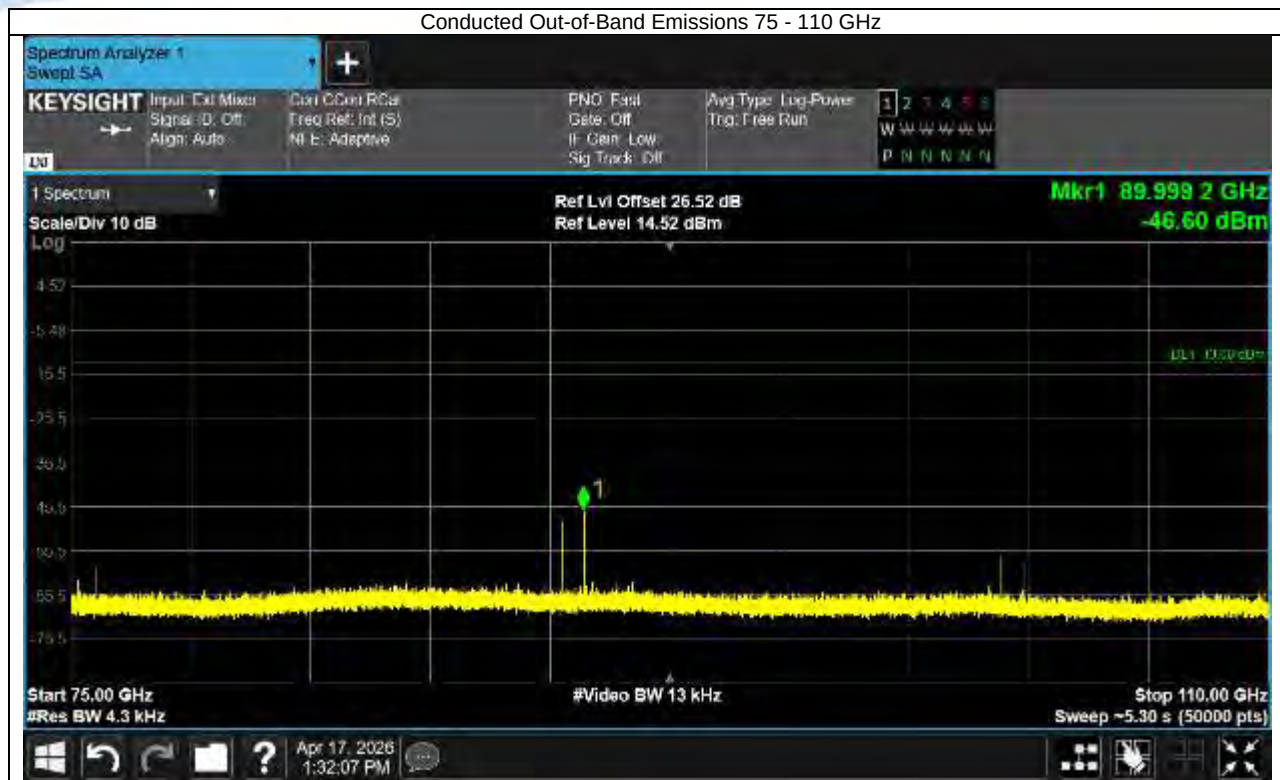




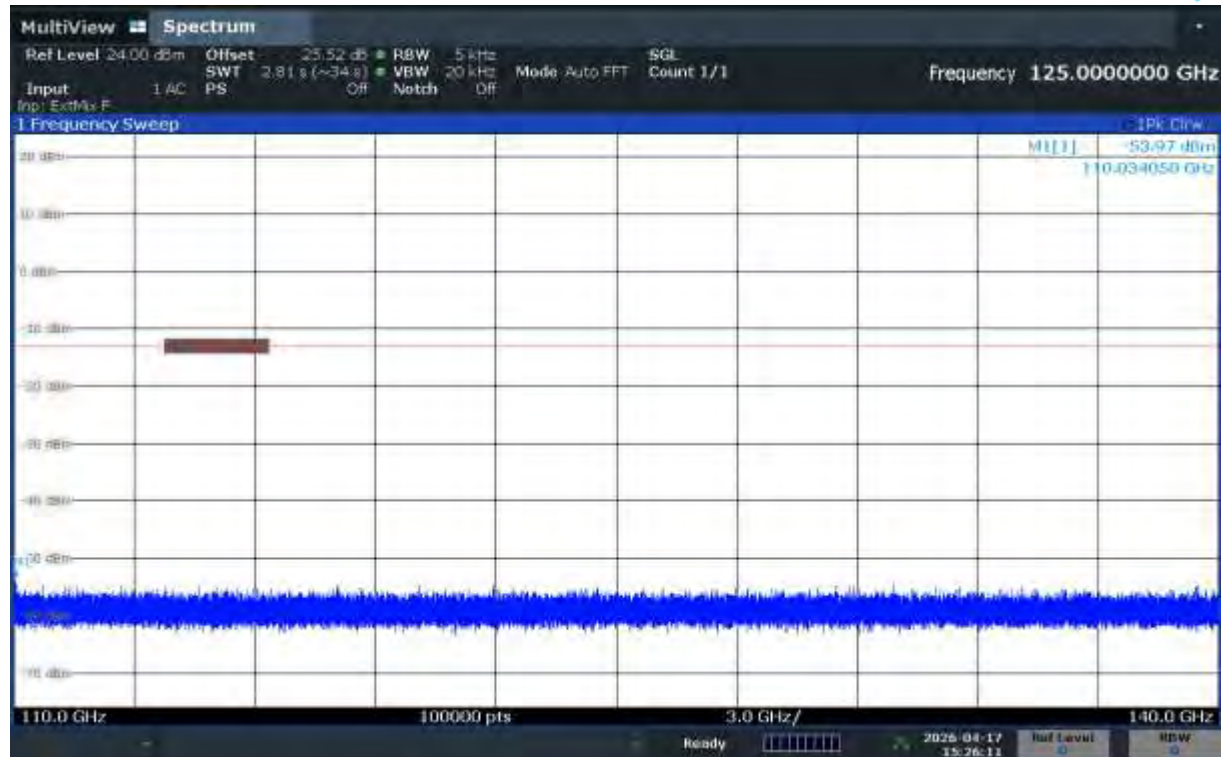






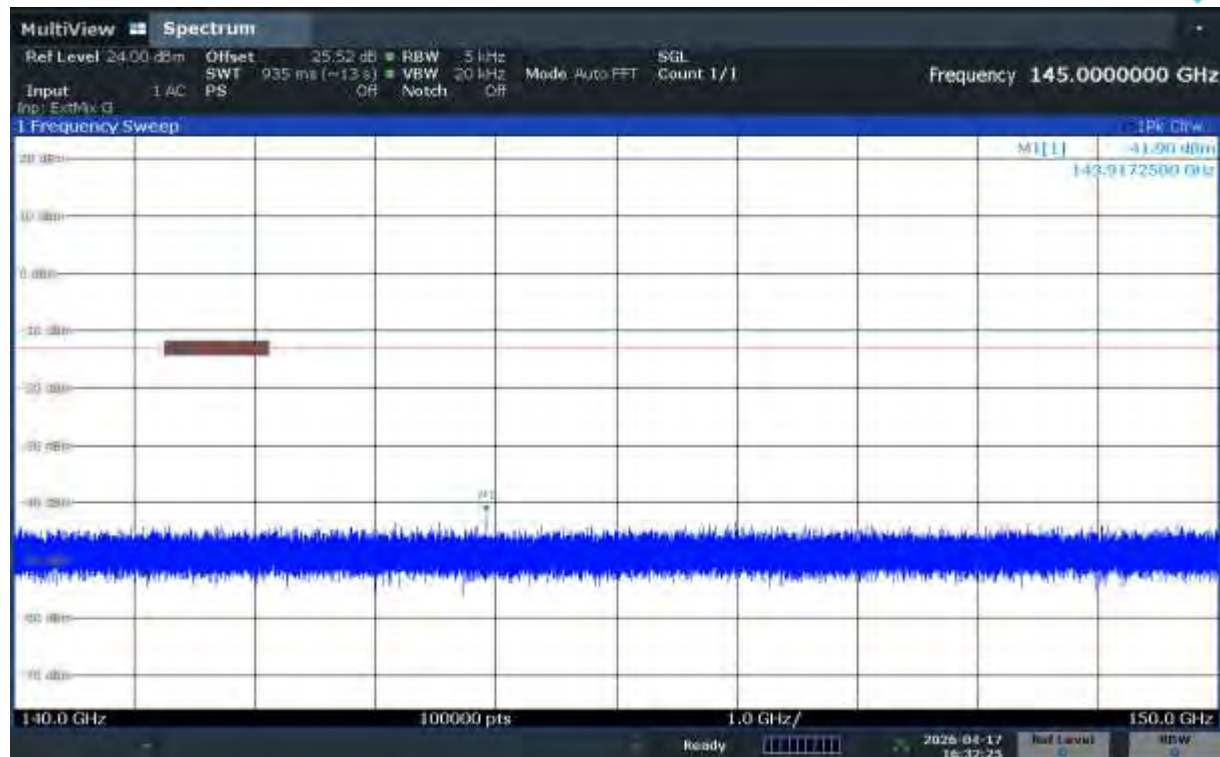


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:26:11

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:32:24

8.5.2.46. 8PSK 7MHz Low Band Low Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

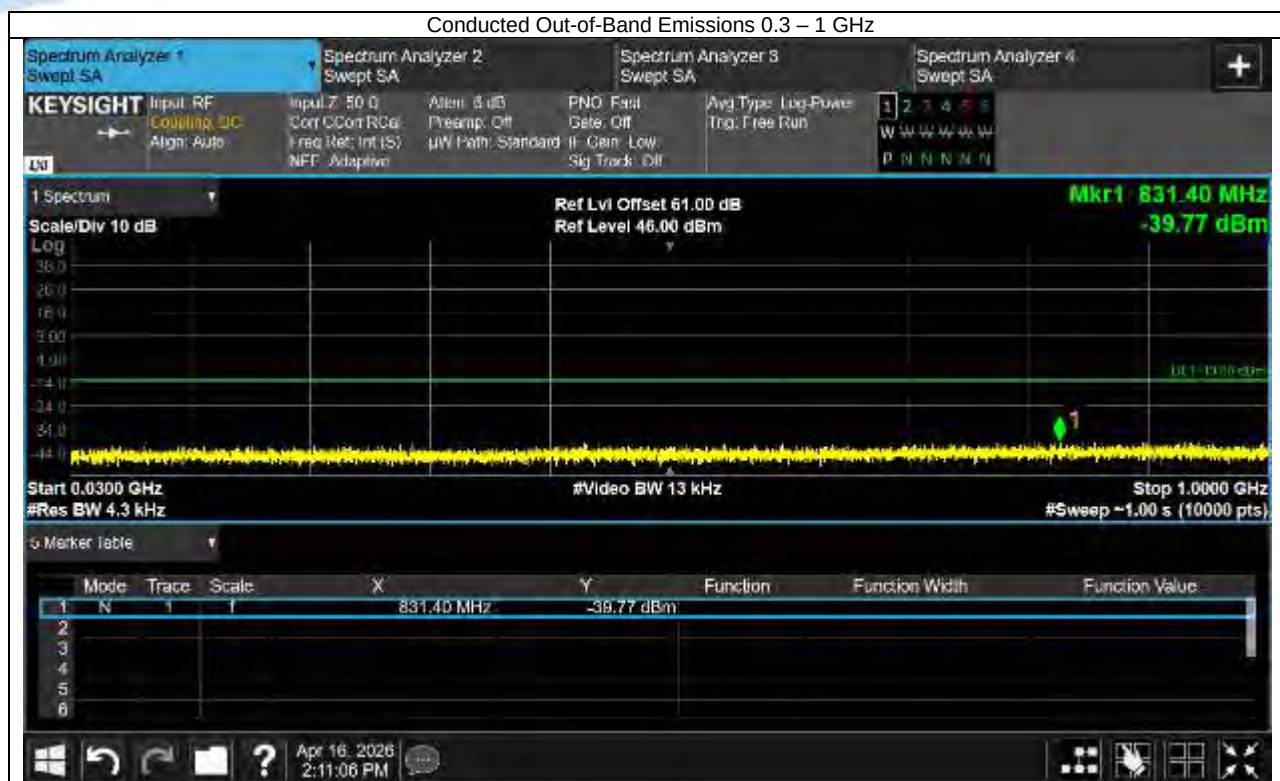
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

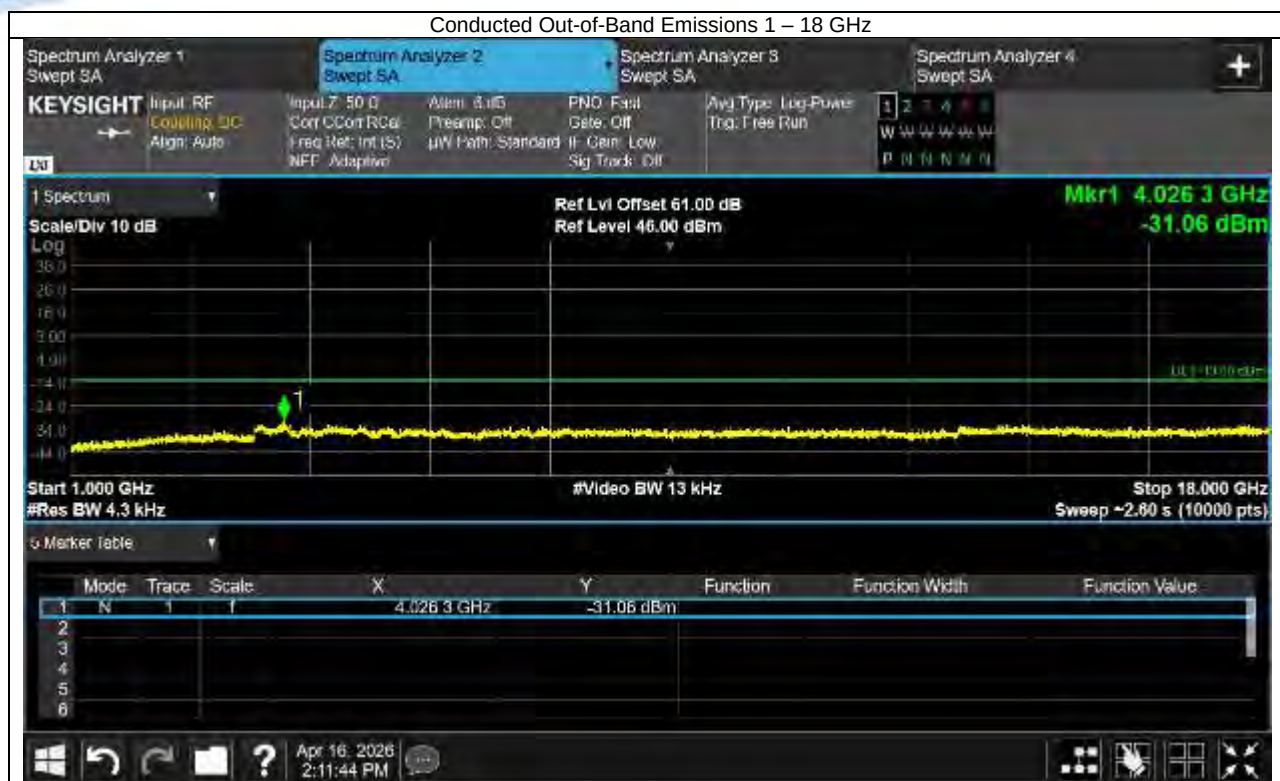
Test Measurement Results

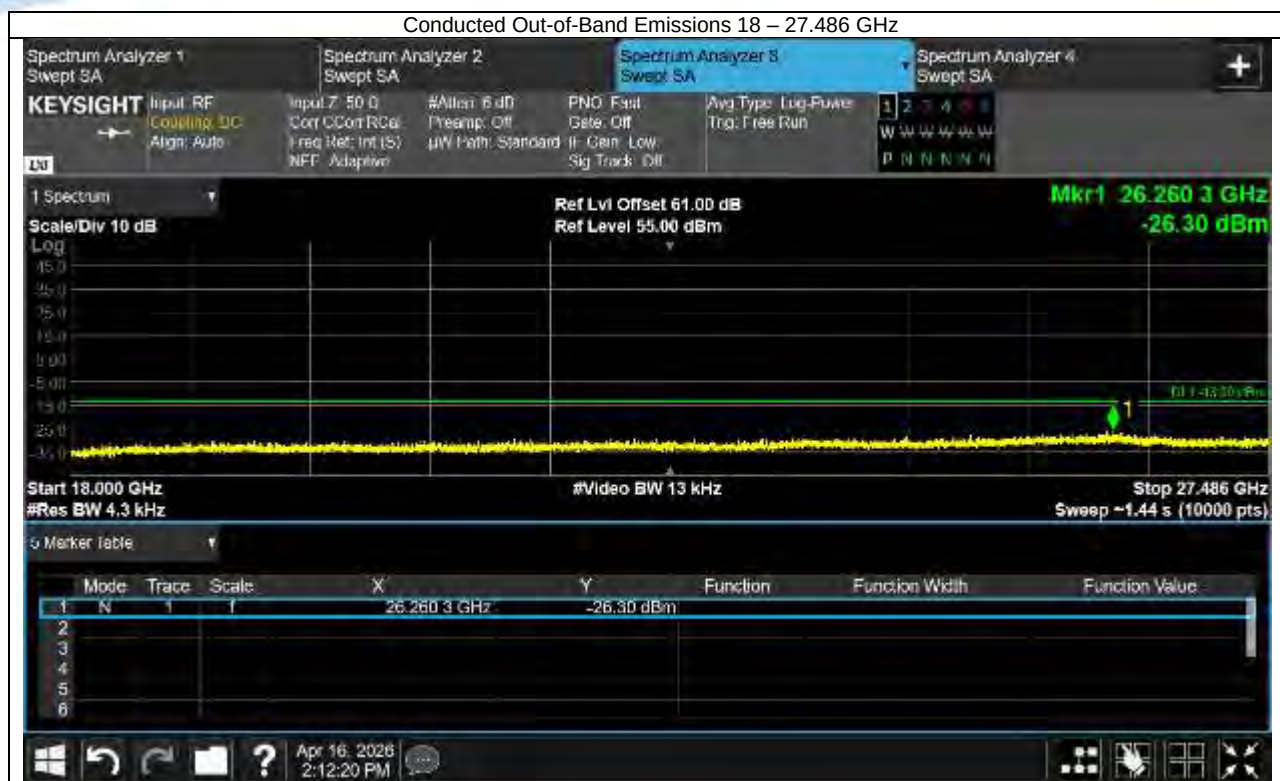
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 27503.525 MHz						
30MHz-1GHz	831.40	-39.77	--	-13.00	-26.77	Complies
1-18GHz	4026.30	-31.06	--	-13.00	-18.06	Complies
18-27.486GHz	26260.30	-26.30	--	-13.00	-13.30	Complies
27.521-40GHz	39177.60	-21.04	--	-13.00	-8.04	Complies
40-50GHz	49247.90	-49.77	--	-13.00	-36.77	Complies
50-75 GHz	54360.00	-62.98	-57.82	-13.00	-44.82	Complies
75-110GHz	87703.20	-62.66	--	-13.00	-49.66	Complies
110-140GHz	132235.25	-36.98	-24.10	-13.00	-11.10	Complies
140-150GHz	142921.55	-43.39	--	-13.00	-30.39	Complies

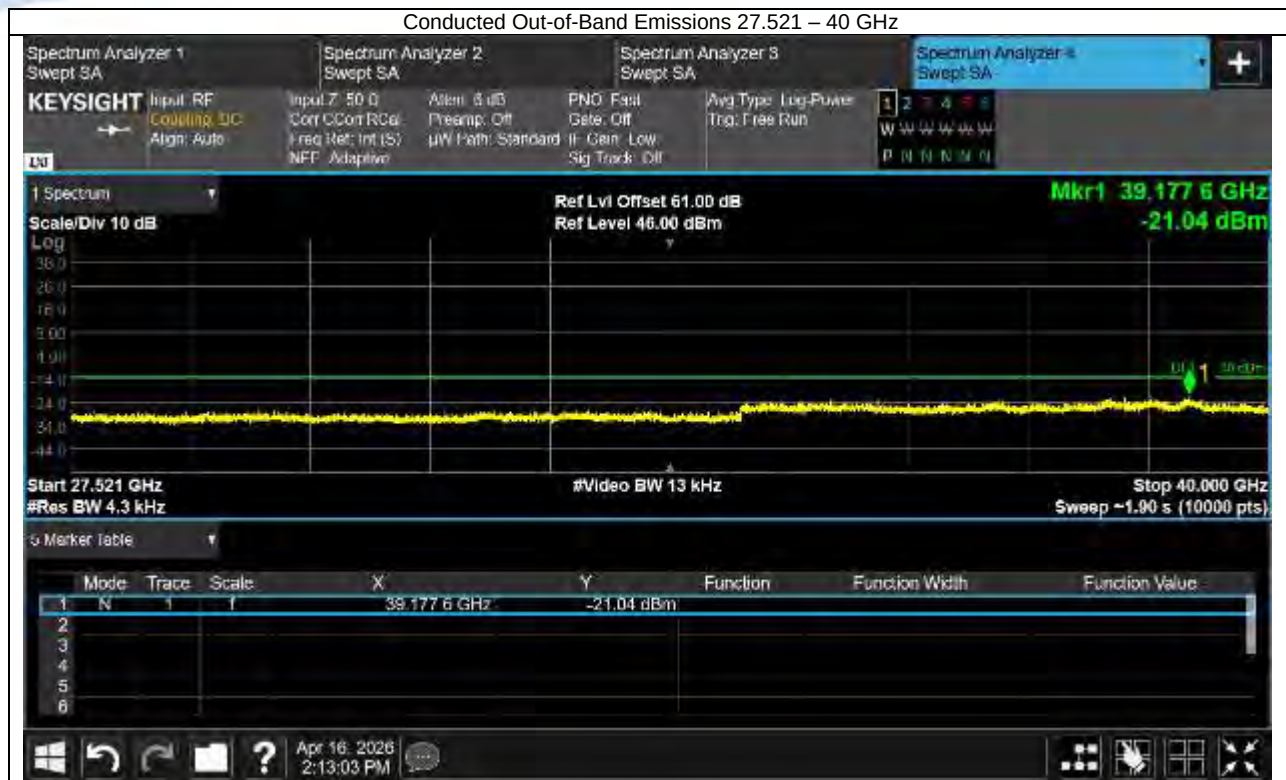
Traceability to Industry Recognized Test Methodologies

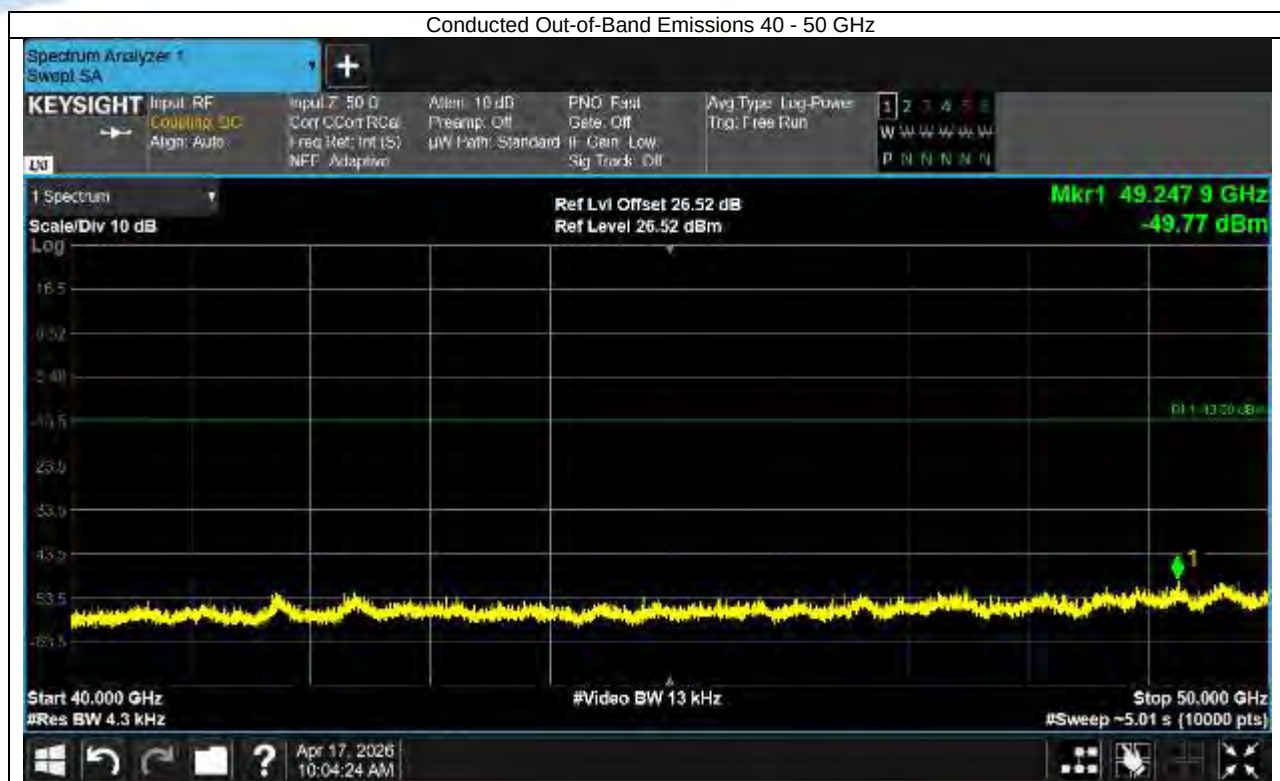
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

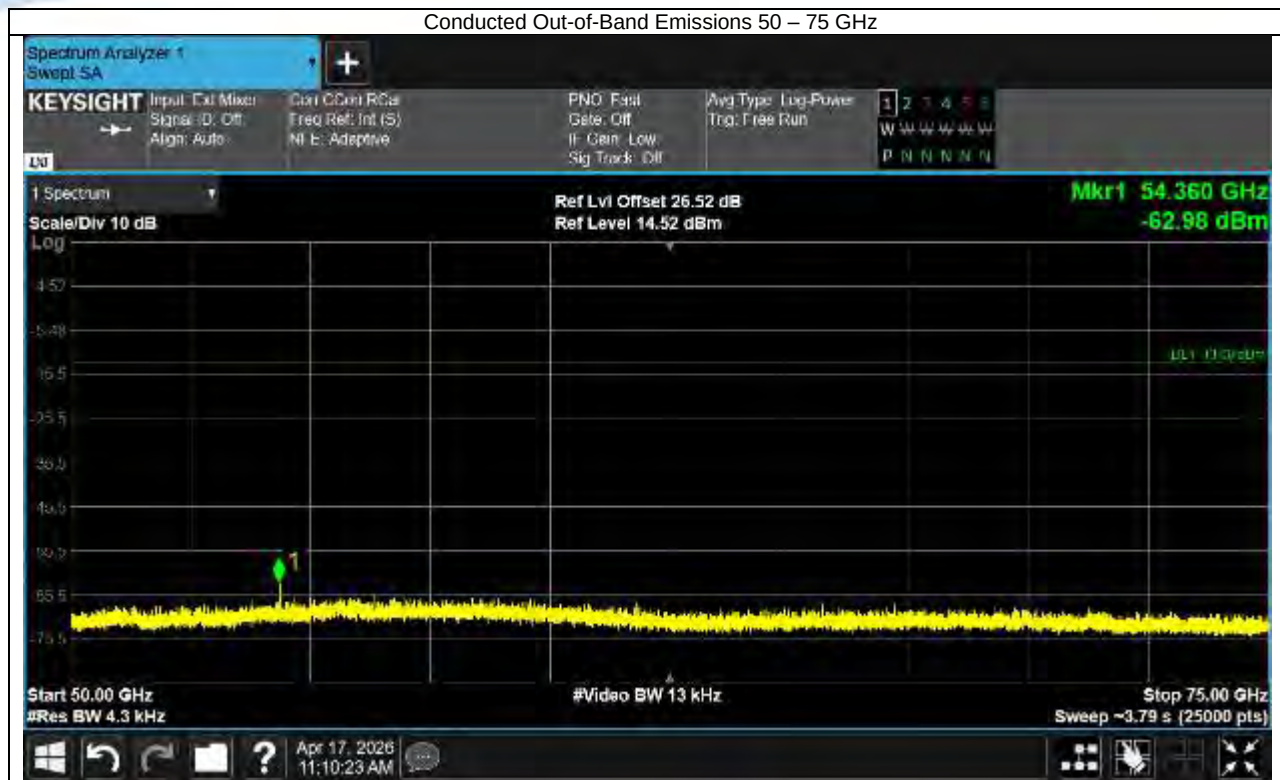






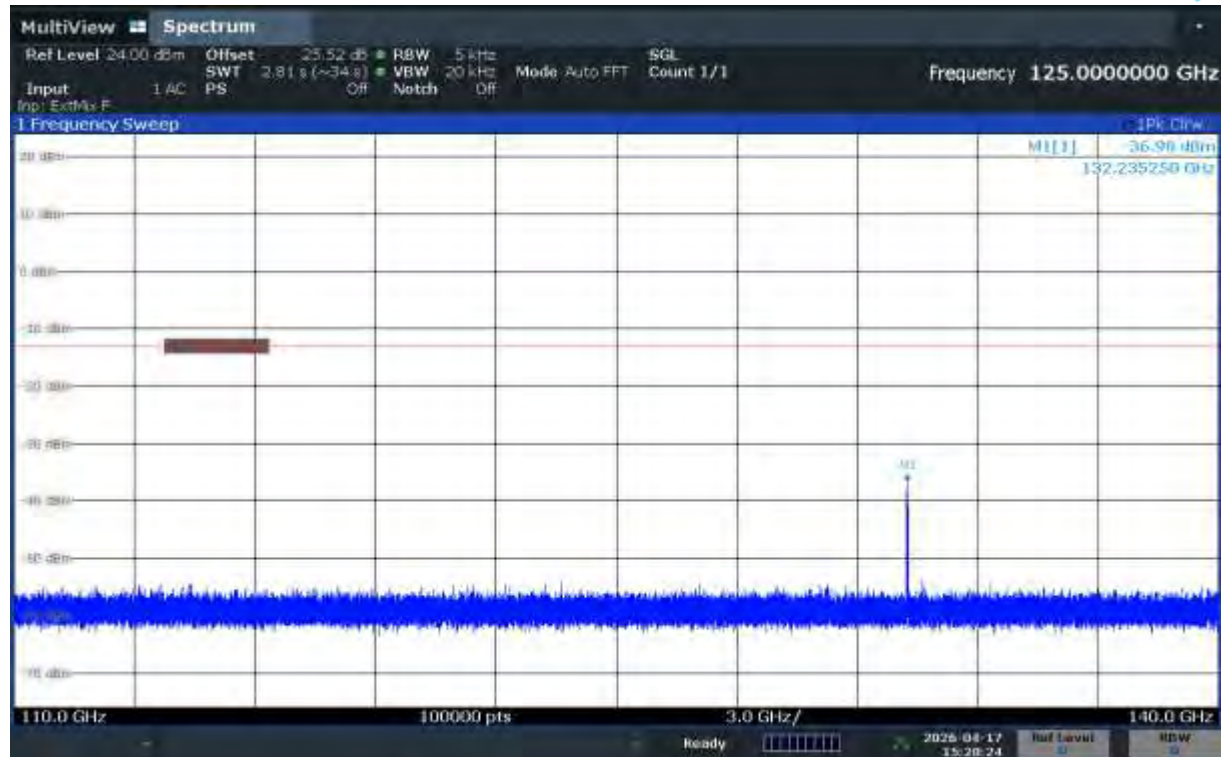






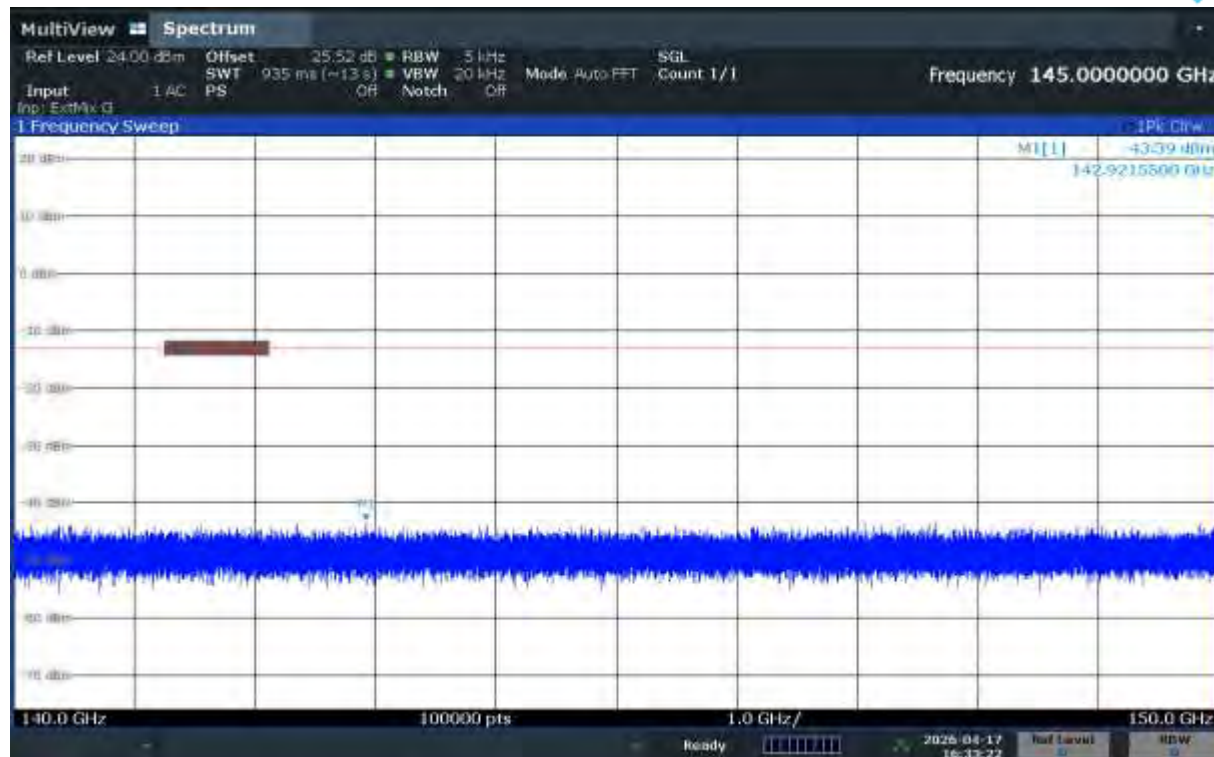


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:28:25

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:33:22

8.5.2.47. 8PSK 7MHz Low Band Mid Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

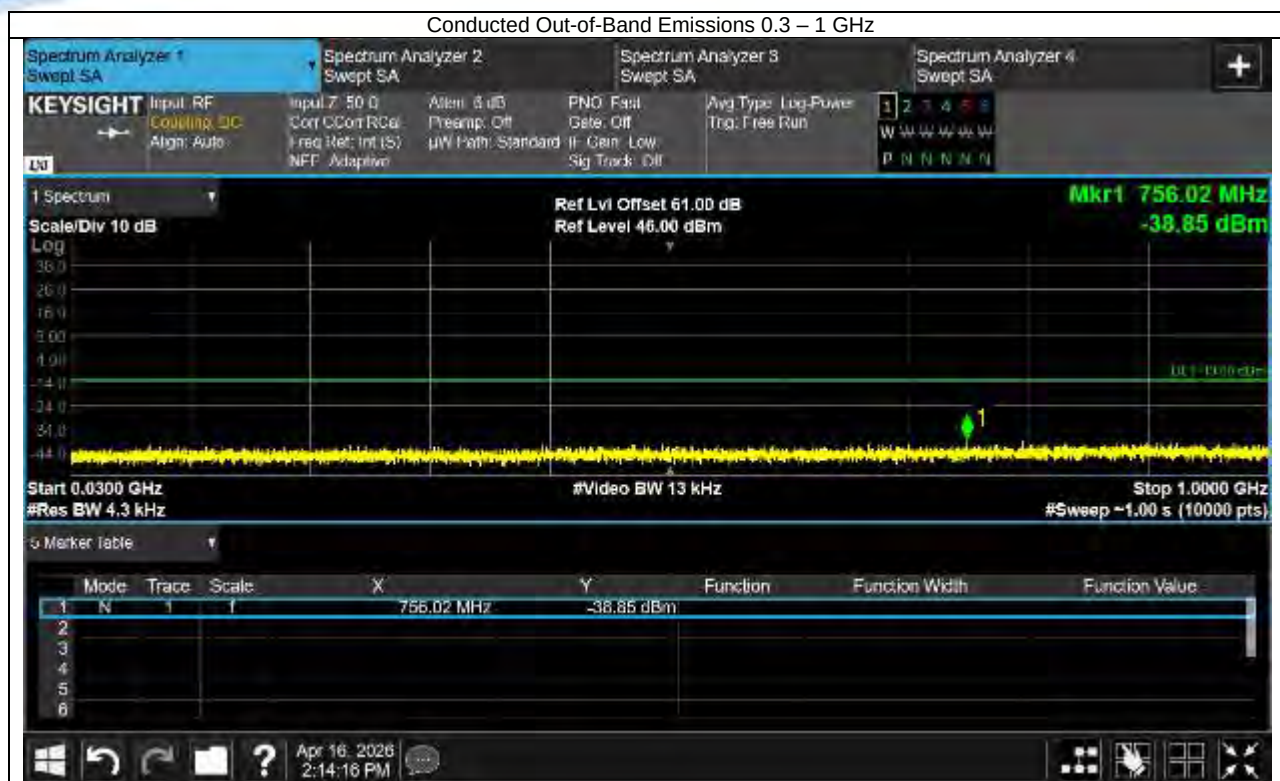
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

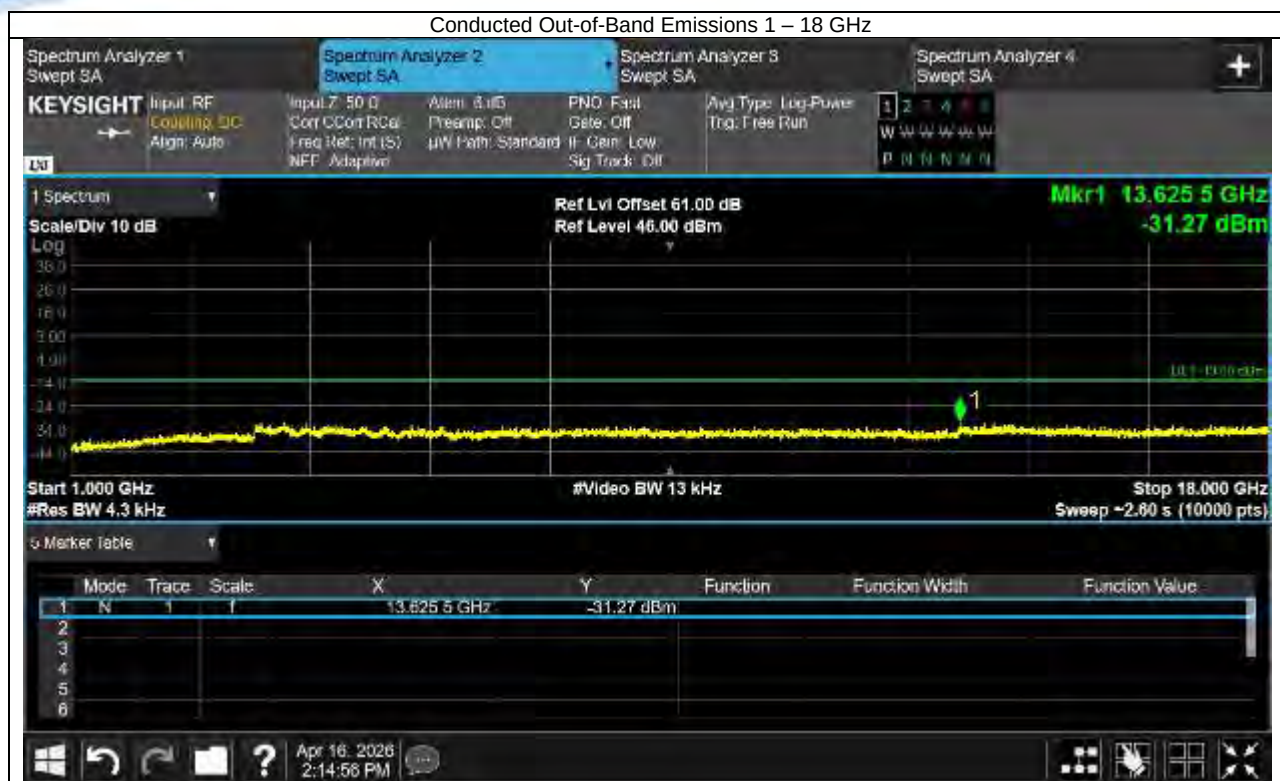
Test Measurement Results

Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 28000.00 MHz						
30MHz-1GHz	756.02	-38.85	--	-13.00	-25.85	Complies
1-18GHz	13625.50	-31.27	--	-13.00	-18.27	Complies
18-27.983GHz	25540.50	-25.62	--	-13.00	-12.62	Complies
28.018-40GHz	39182.70	-22.02	--	-13.00	-9.02	Complies
40-50GHz	49230.90	-50.34	--	-13.00	-37.34	Complies
50-75 GHz	59445.00	-64.54	-58.60	-13.00	-45.60	Complies
75-110GHz	87290.10	-63.03	--	-13.00	-50.03	Complies
110-140GHz	134731.25	-42.29	-29.24	-13.00	-16.24	Complies
140-150GHz	149650.05	-43.00	--	-13.00	-30.00	Complies

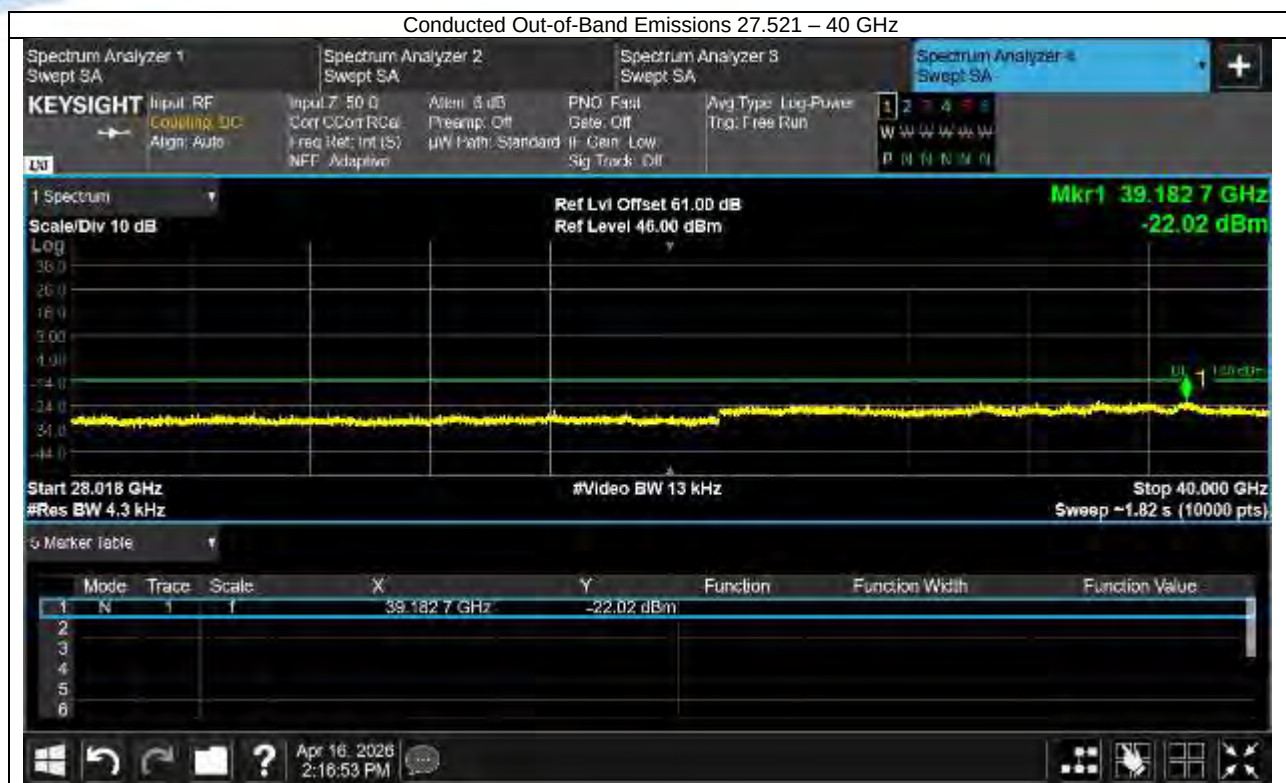
Traceability to Industry Recognized Test Methodologies

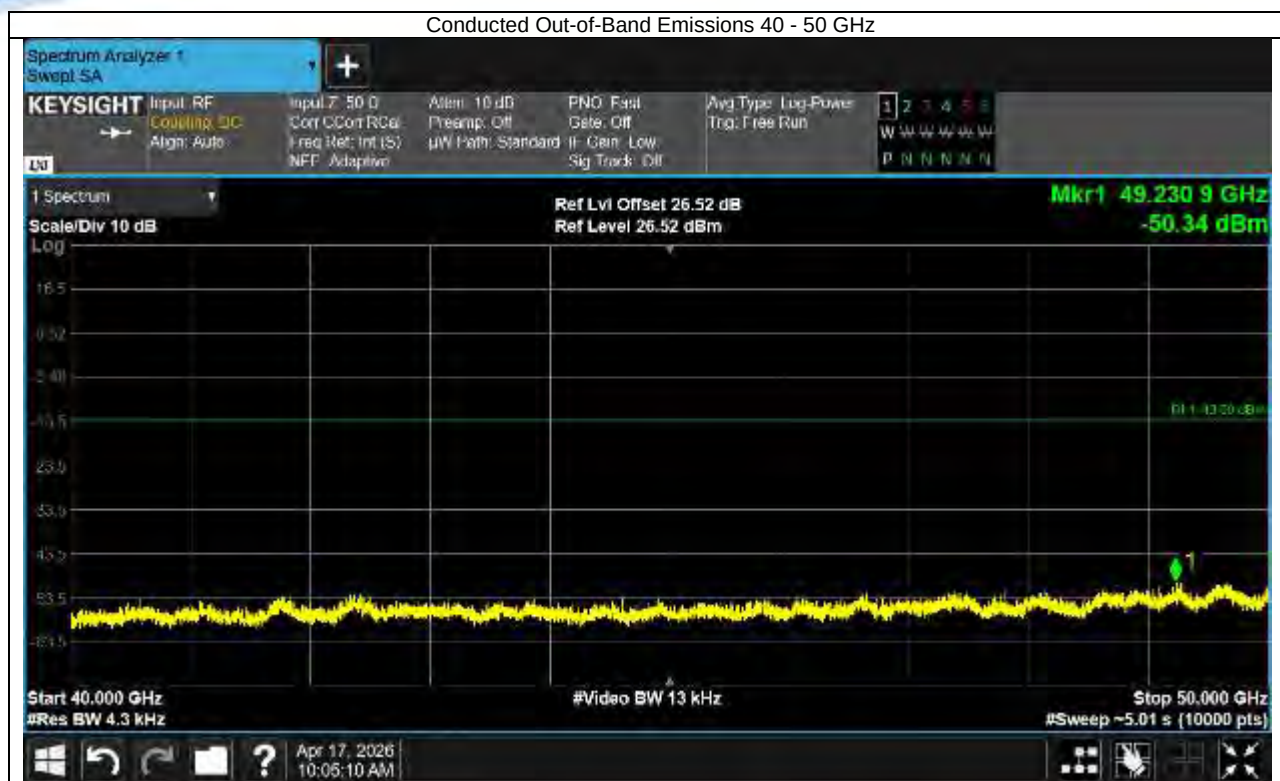
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ± 2.37 dB, > 40 GHz ± 4.6 dB

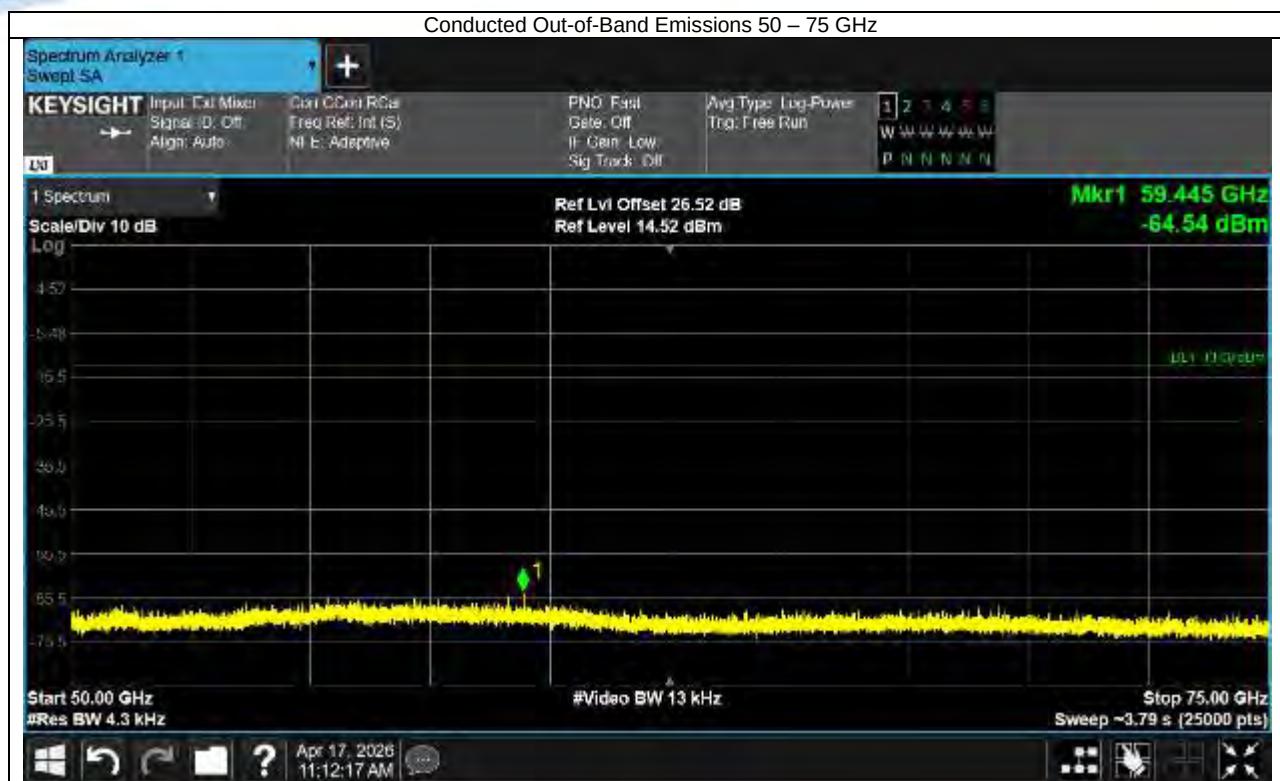


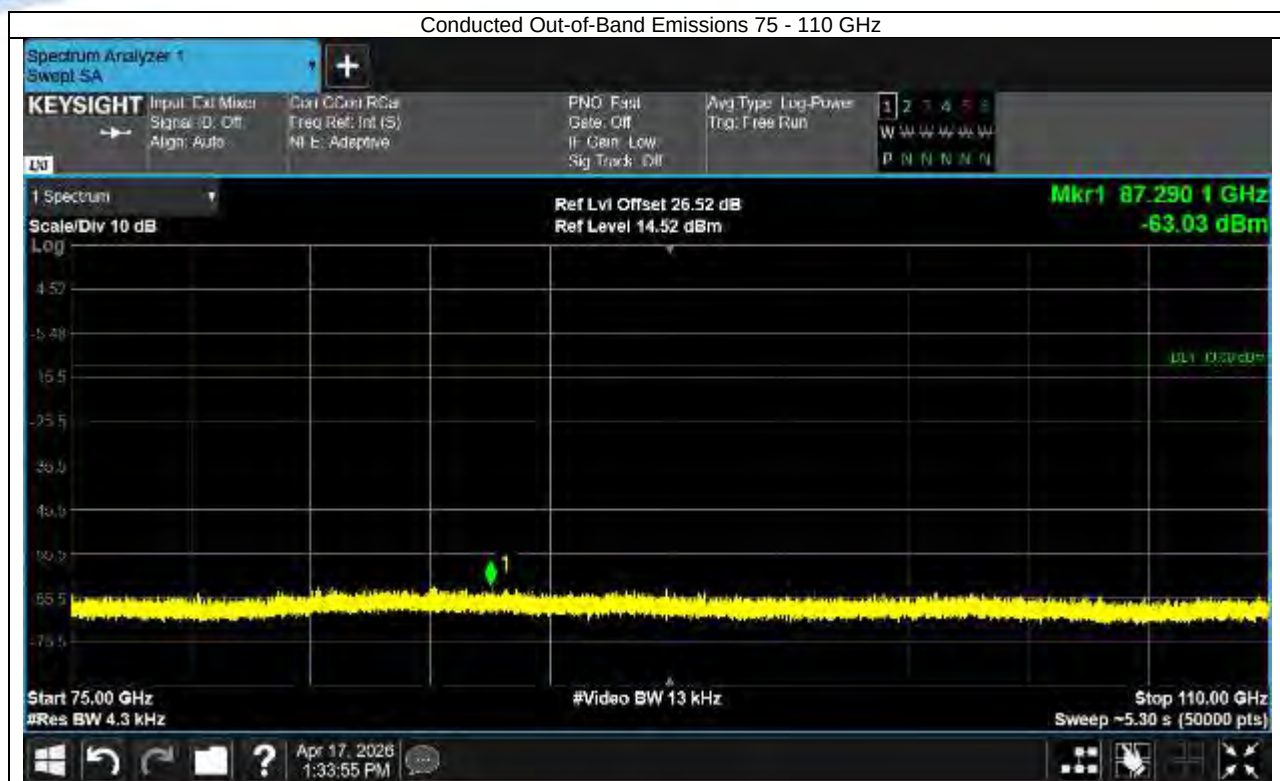




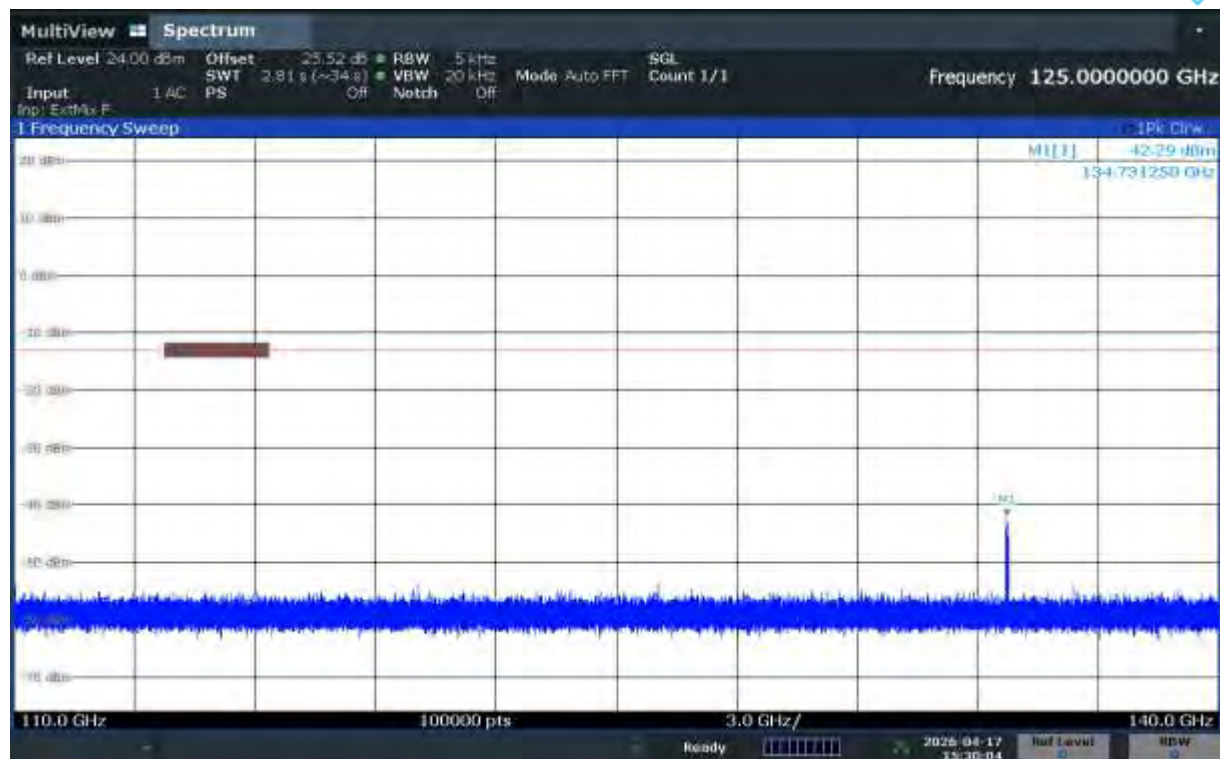






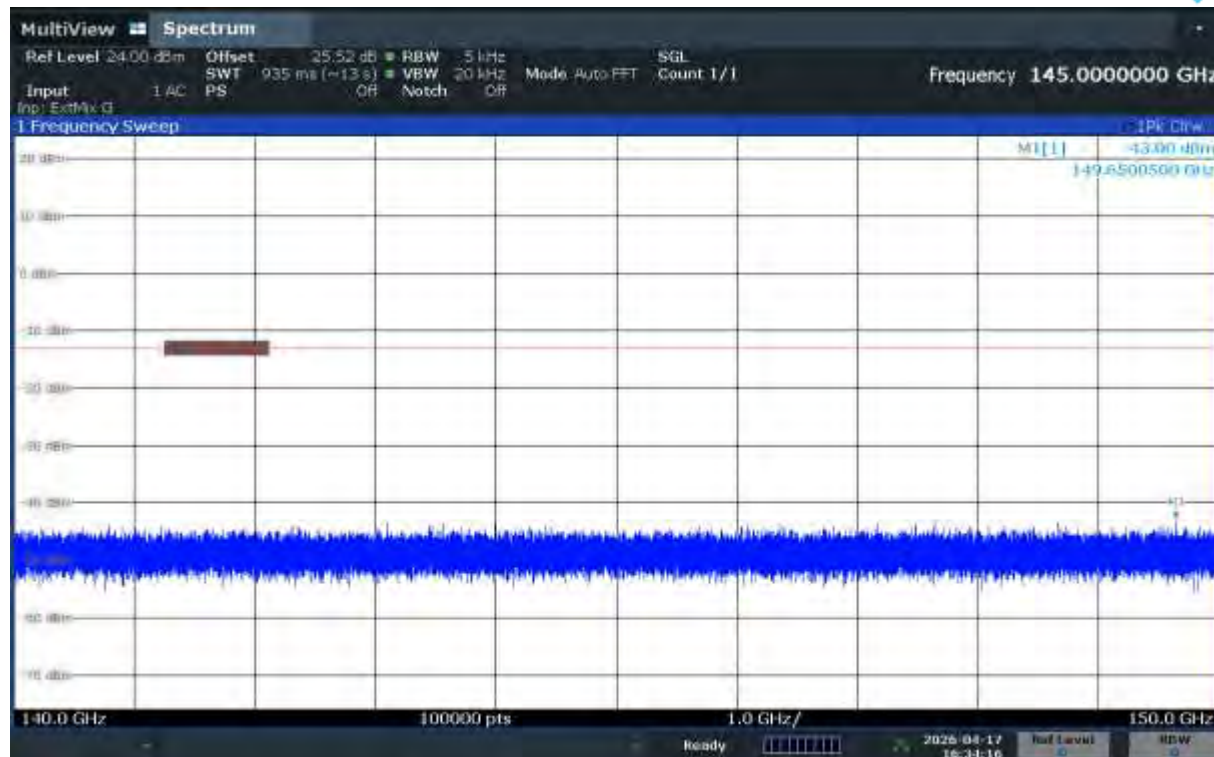


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:30:05

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:34:16

8.5.2.48. 8PSK 7MHz Low Band High Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

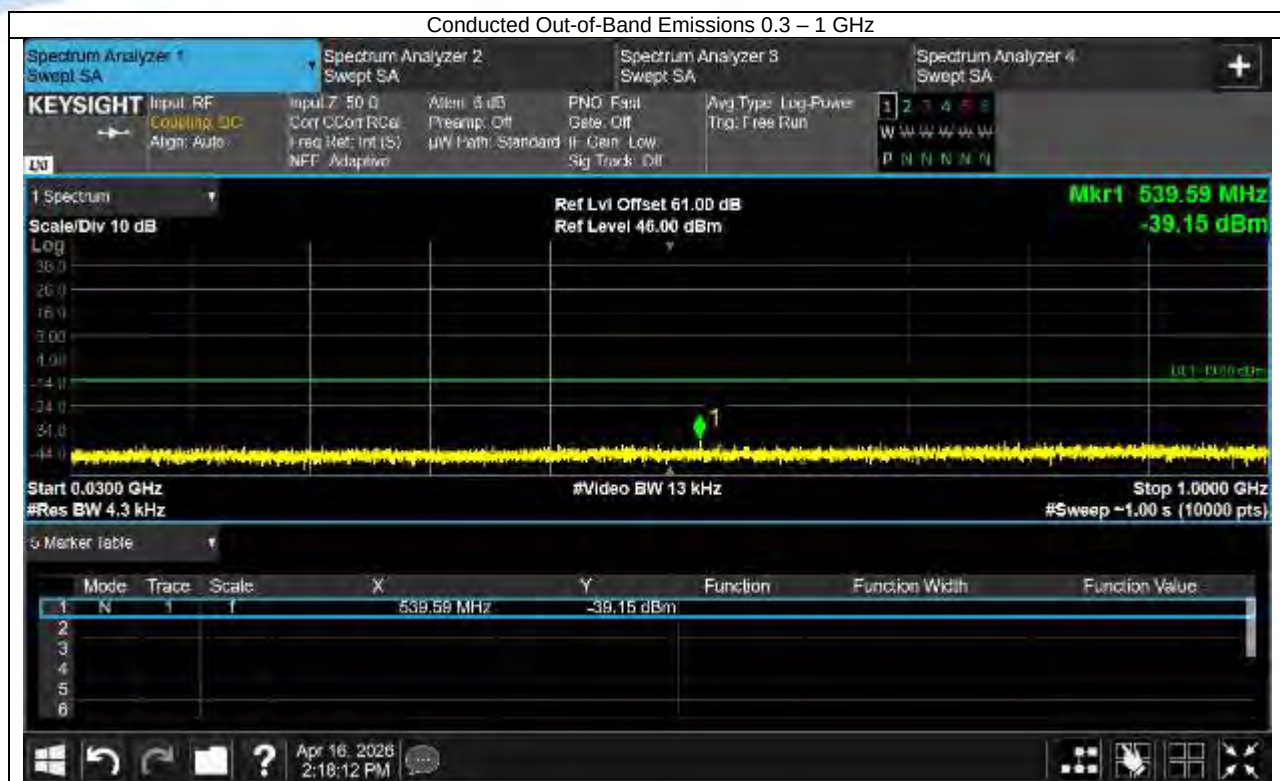
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

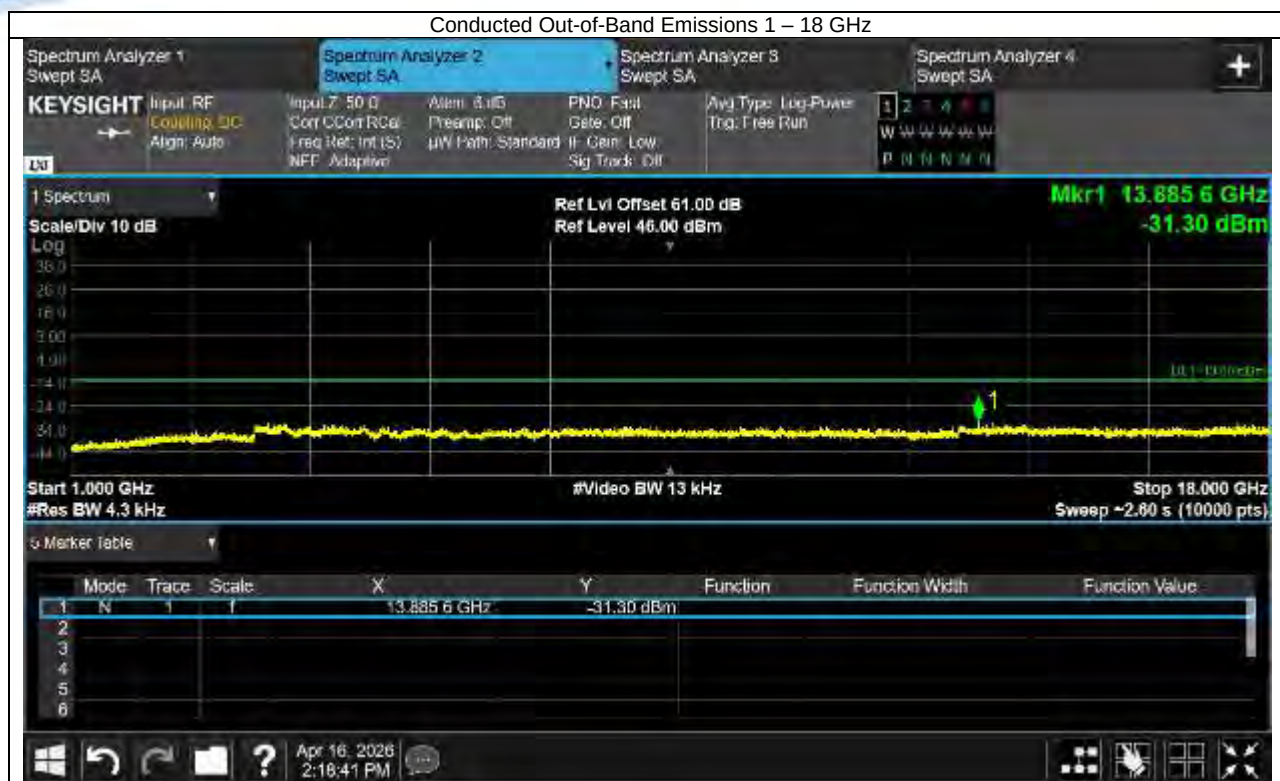
Test Measurement Results

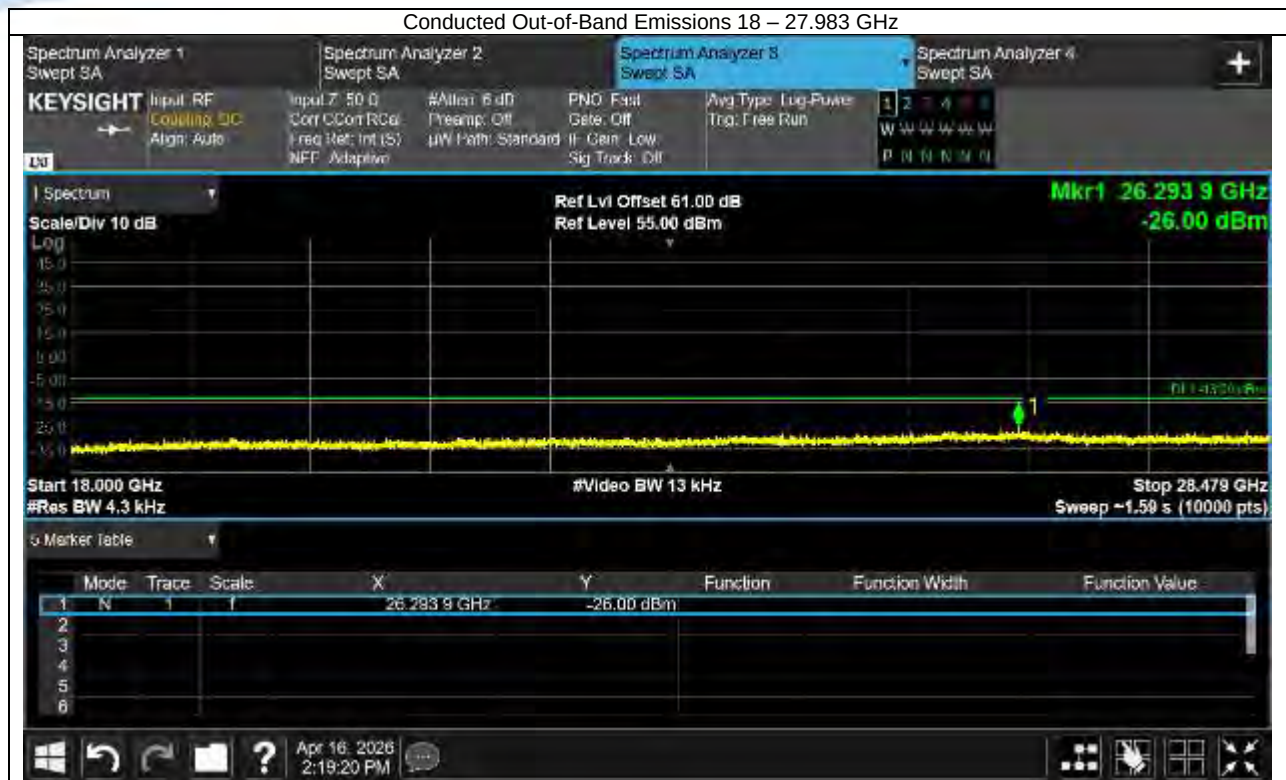
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 28496.475 MHz						
30MHz-1GHz	539.59	-39.15	--	-13.00	-26.15	Complies
1-18GHz	13885.60	-31.30	--	-13.00	-18.30	Complies
18-28.479GHz	26293.90	-26.00	--	-13.00	-13.00	Complies
28.514-40GHz	39210.80	-21.21	--	-13.00	-8.21	Complies
40-50GHz	49567.00	-49.39	--	-13.00	-36.39	Complies
50-75 GHz	63552.00	-61.62	-55.10	-13.00	-42.10	Complies
75-110GHz	84844.30	-58.66	--	-13.00	-45.66	Complies
110-140GHz	137196.35	-43.72	-30.52	-13.00	-17.52	Complies
140-150GHz	142421.25	-43.24	--	-13.00	-30.24	Complies

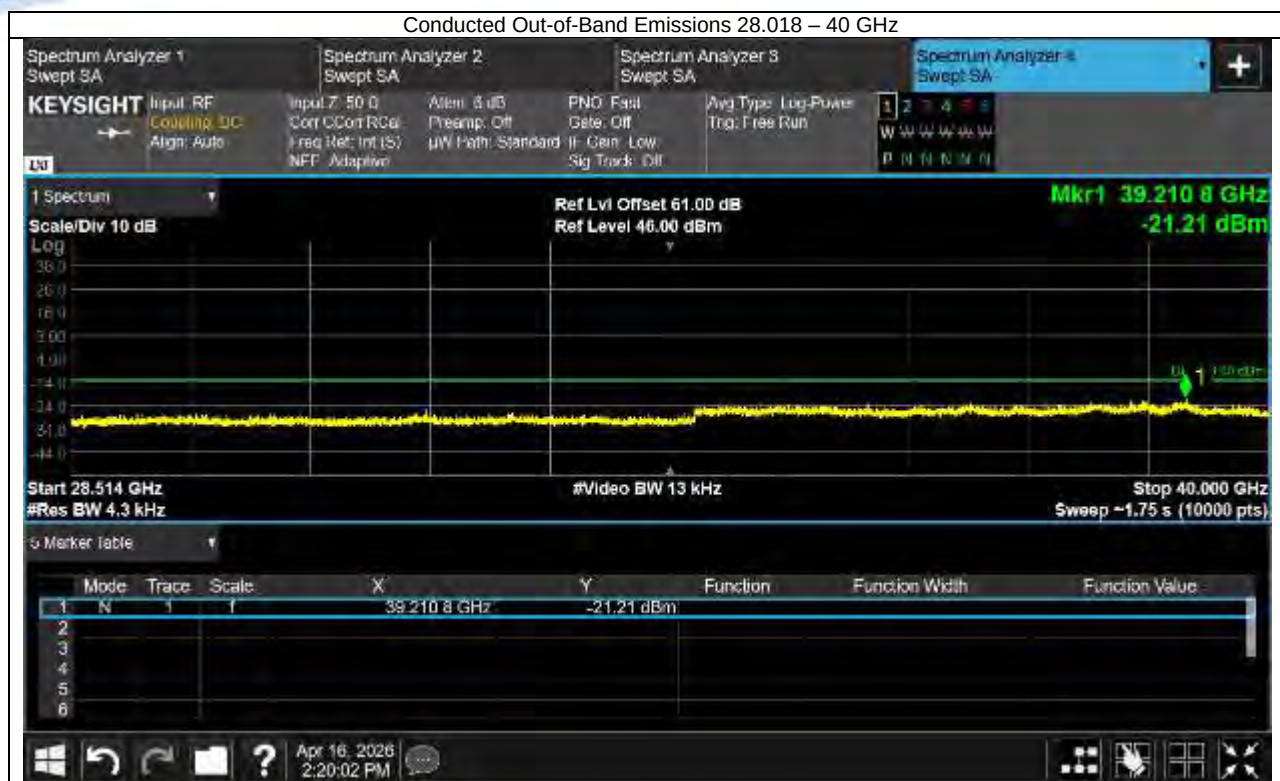
Traceability to Industry Recognized Test Methodologies

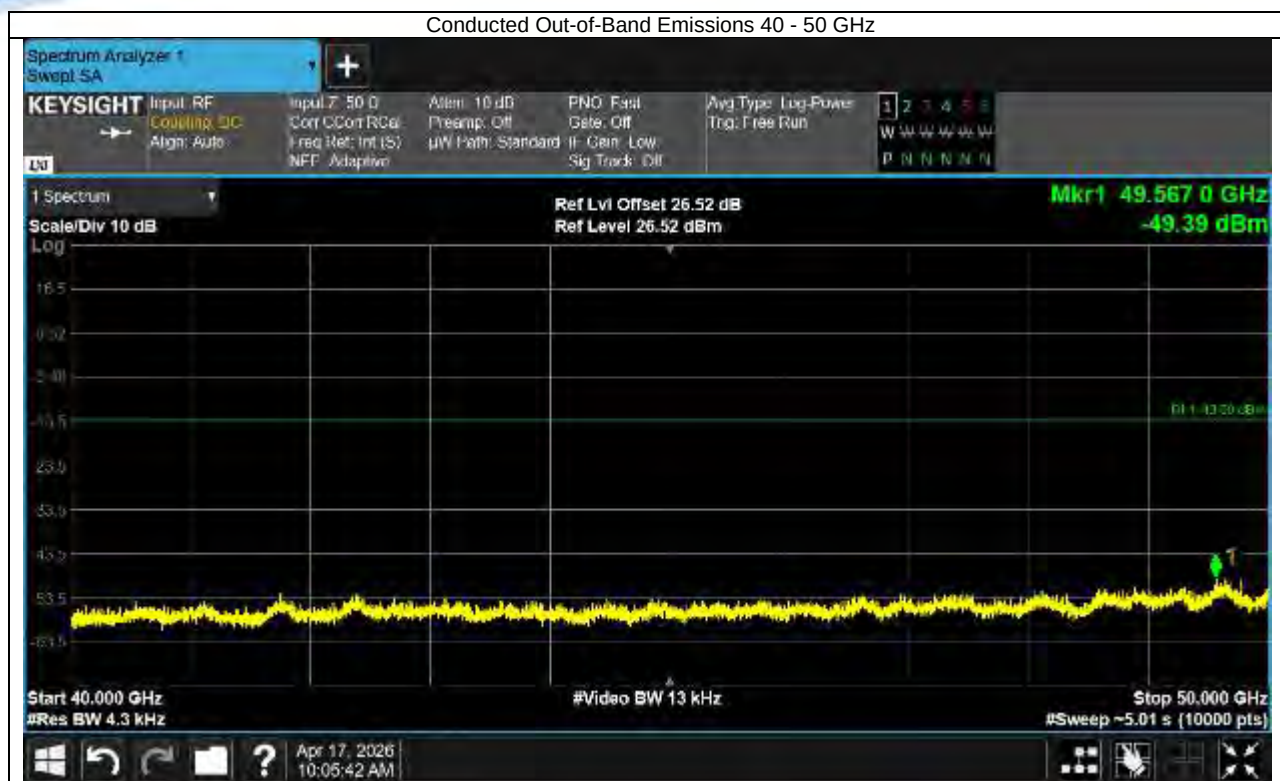
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

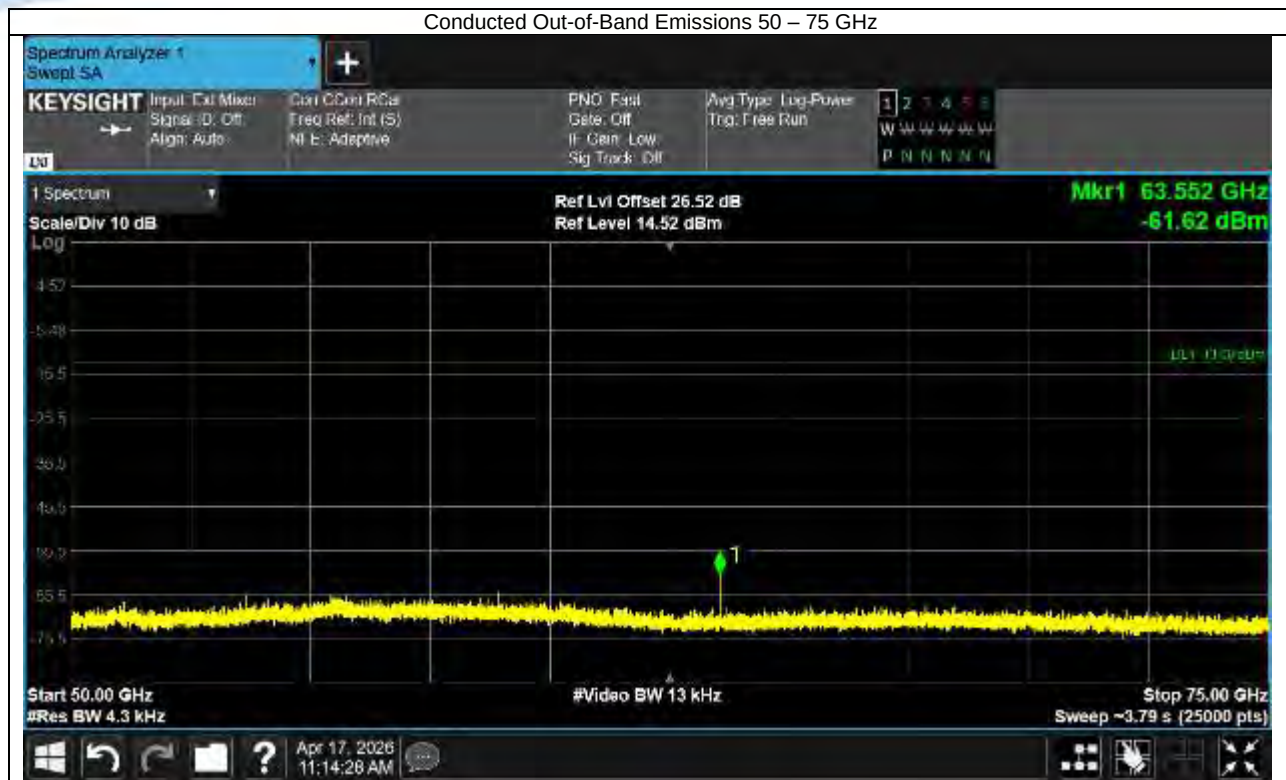


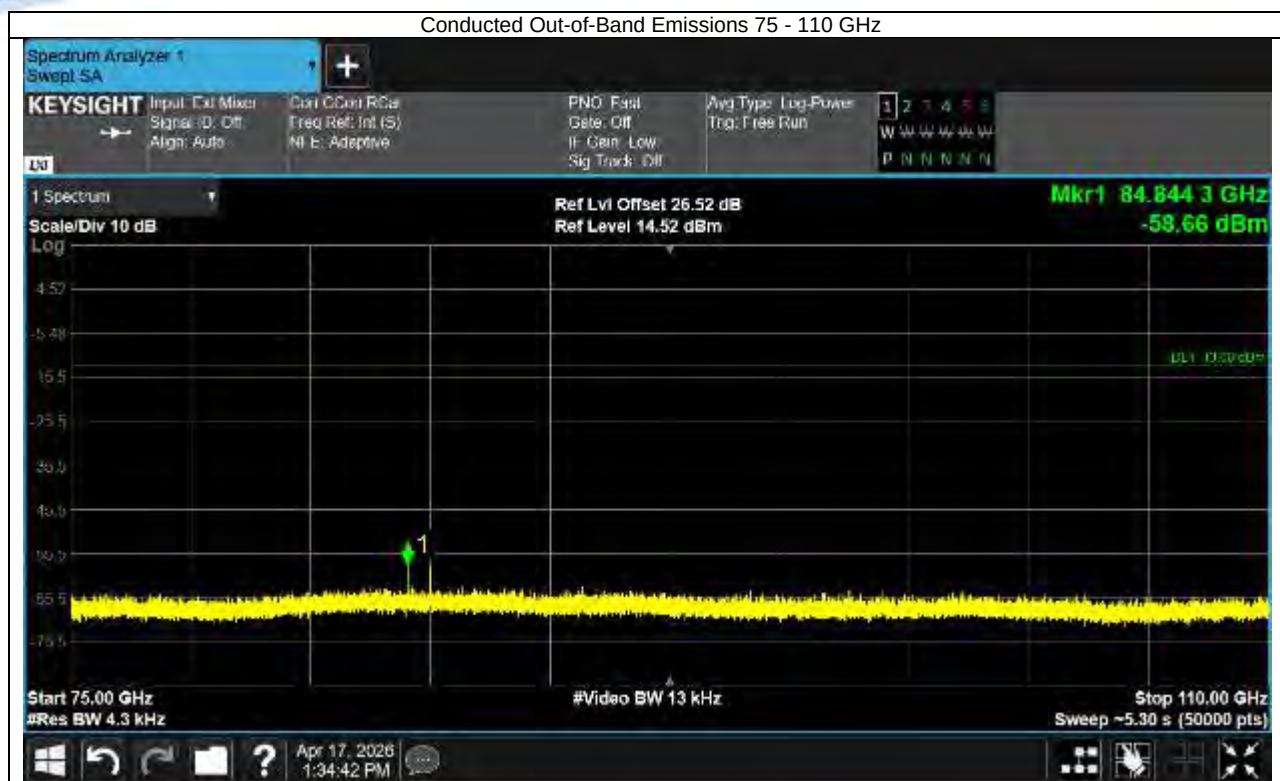




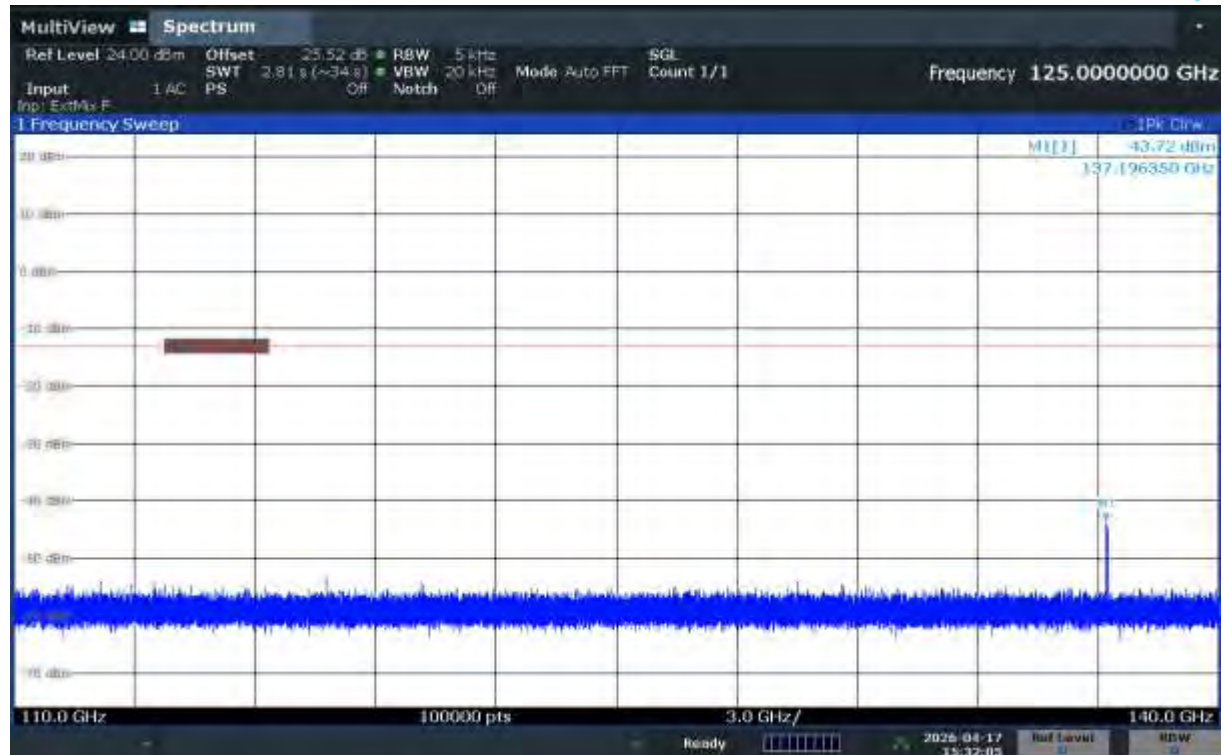






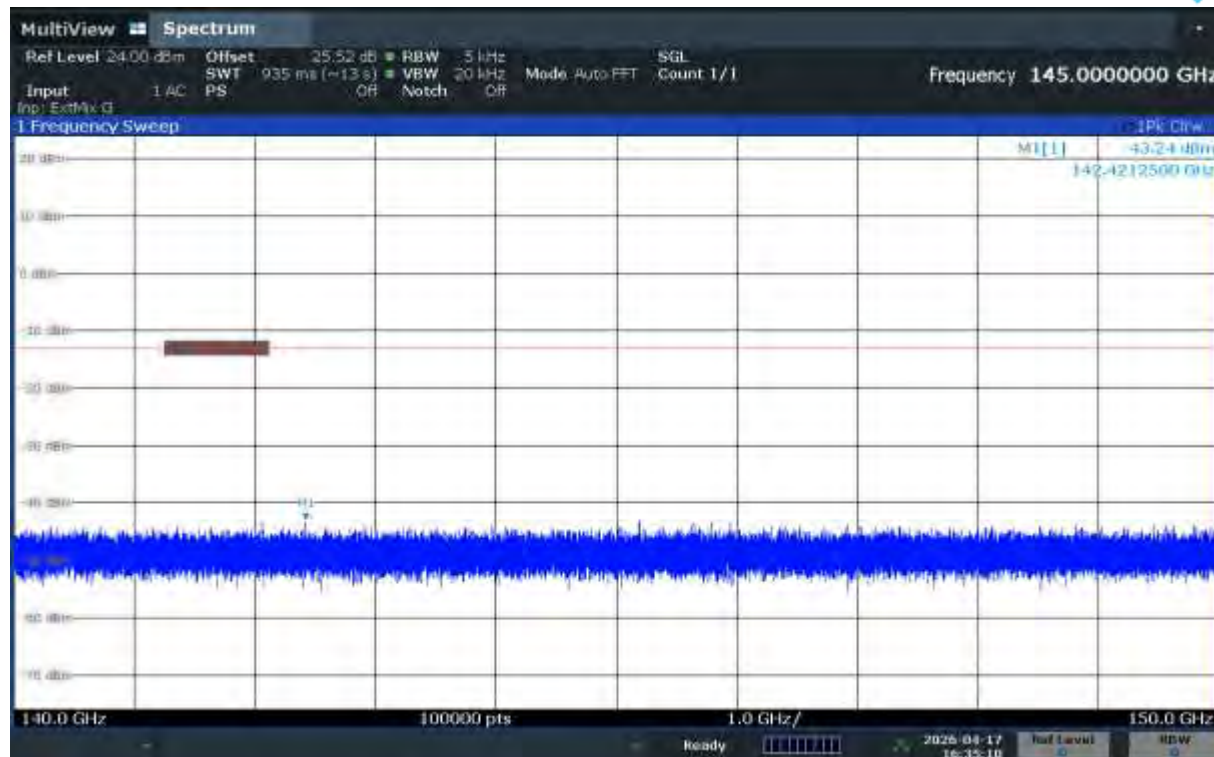


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:32:05

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:35:10

8.5.2.49. 8PSK 7MHz Mid Band Low Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

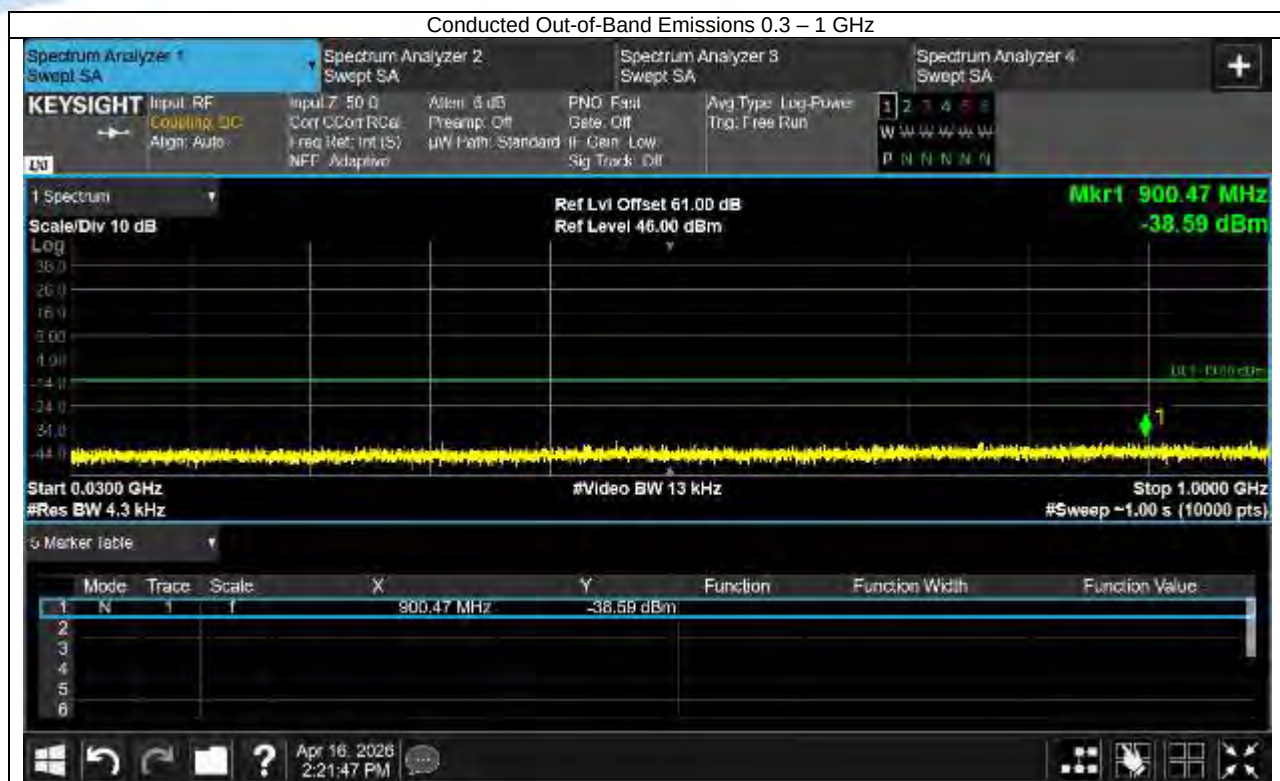
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

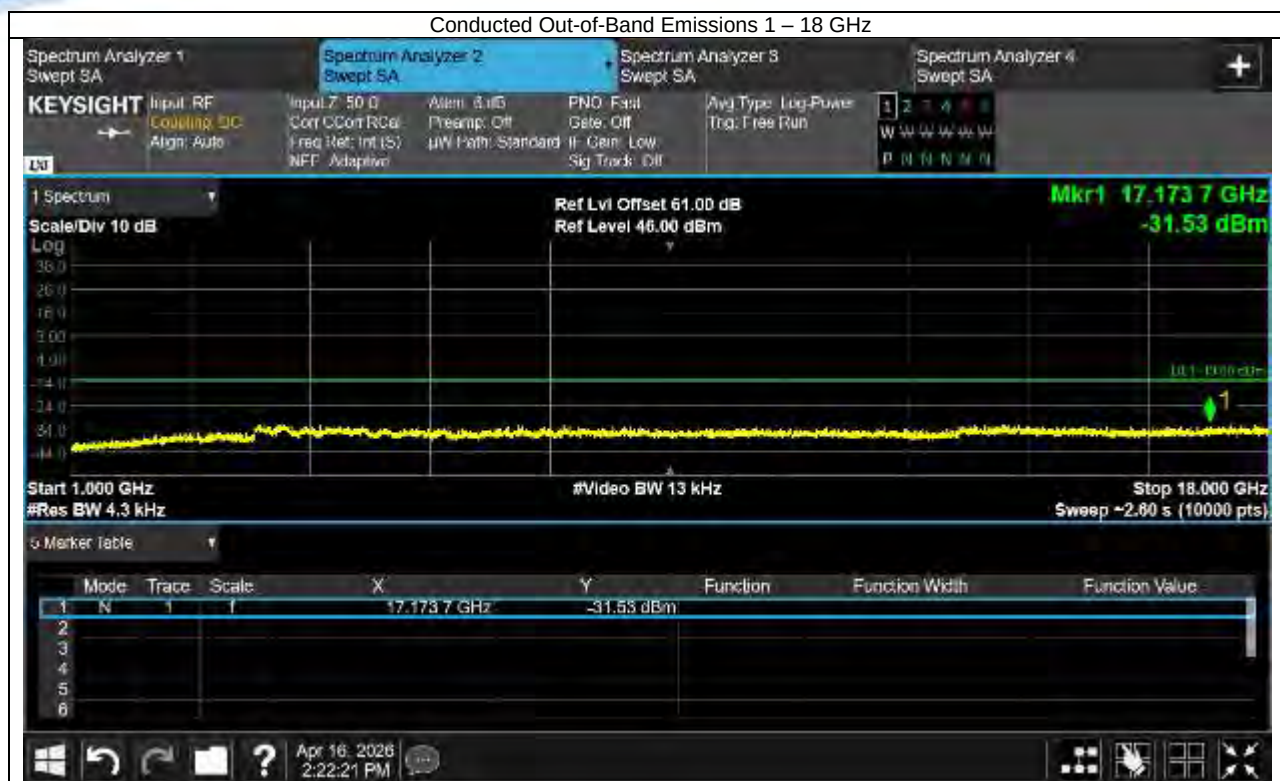
Test Measurement Results

Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 28503.525 MHz						
30MHz-1GHz	900.47	-38.59	--	-13.00	-25.59	Complies
1-18GHz	17173.70	-31.53	--	-13.00	-18.53	Complies
18-28.487GHz	25878.90	-25.32	--	-13.00	-12.32	Complies
28.514-40GHz	38356.00	-21.88	--	-13.00	-8.88	Complies
40-50GHz	49657.00	-49.32	--	-13.00	-36.32	Complies
50-75 GHz	63570.00	-62.26	-55.74	-13.00	-42.74	Complies
75-110GHz	85510.00	-58.53	--	-13.00	-45.53	Complies
110-140GHz	137271.05	-40.85	-27.64	-13.00	-14.64	Complies
140-150GHz	146723.95	-42.92	--	-13.00	-29.92	Complies

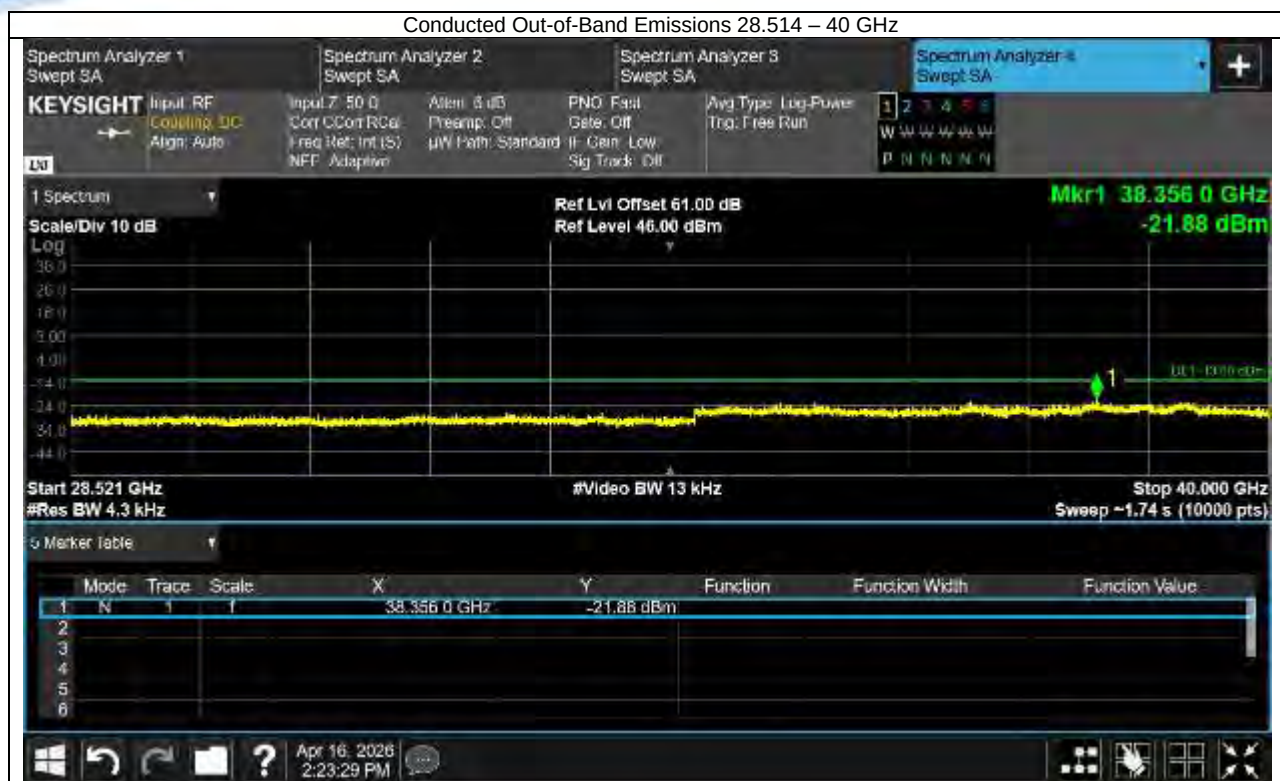
Traceability to Industry Recognized Test Methodologies

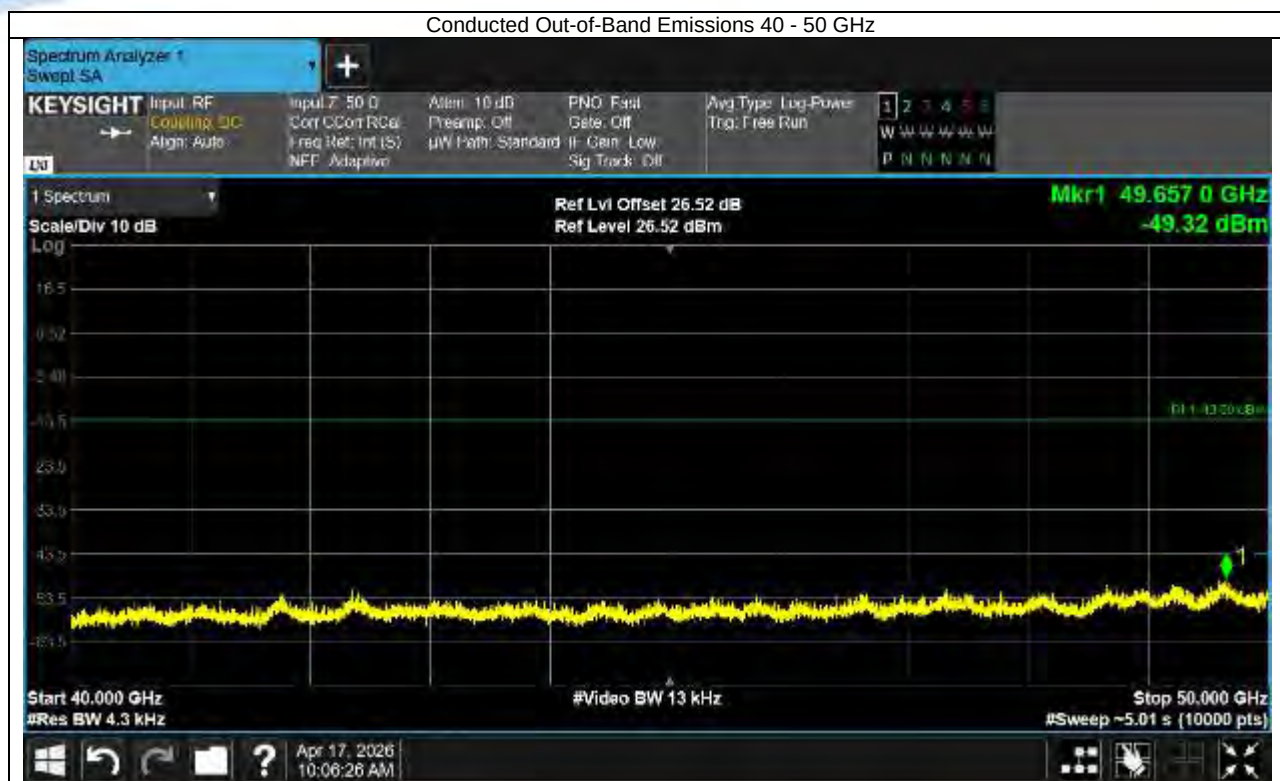
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ± 2.37 dB, > 40 GHz ± 4.6 dB

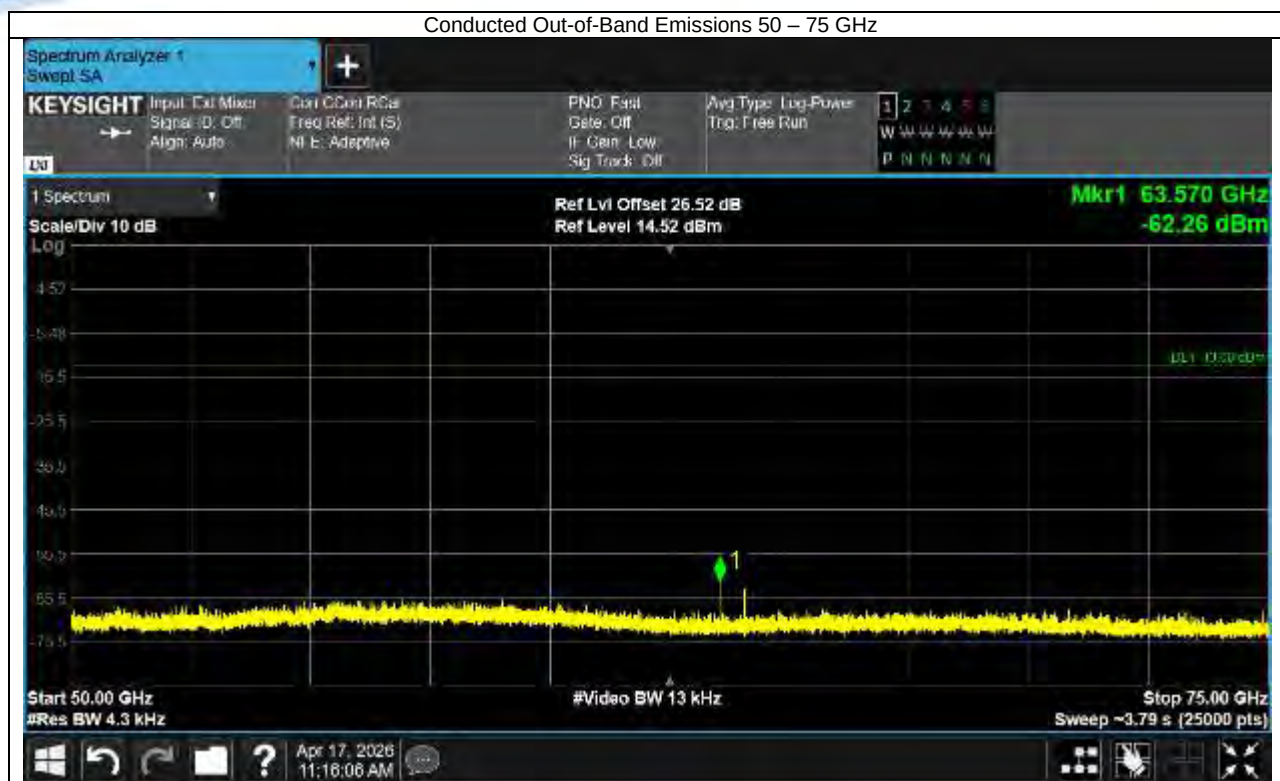


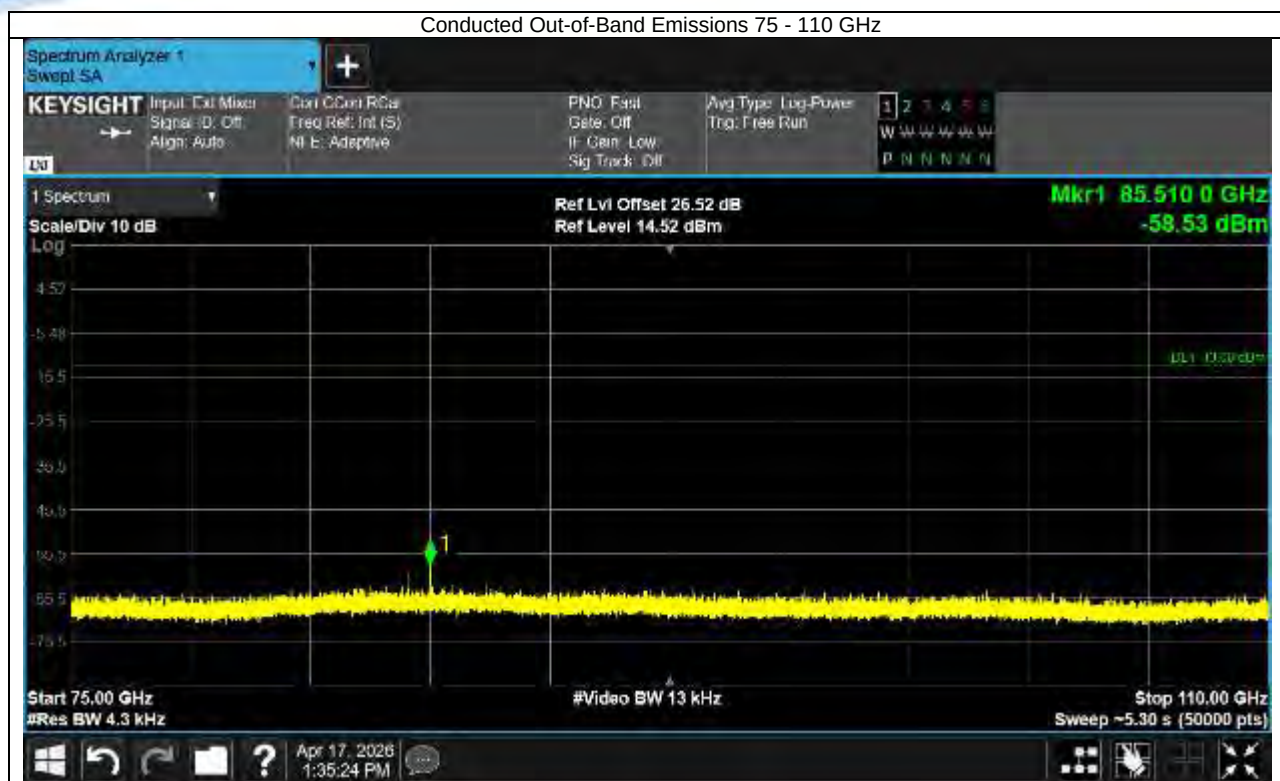




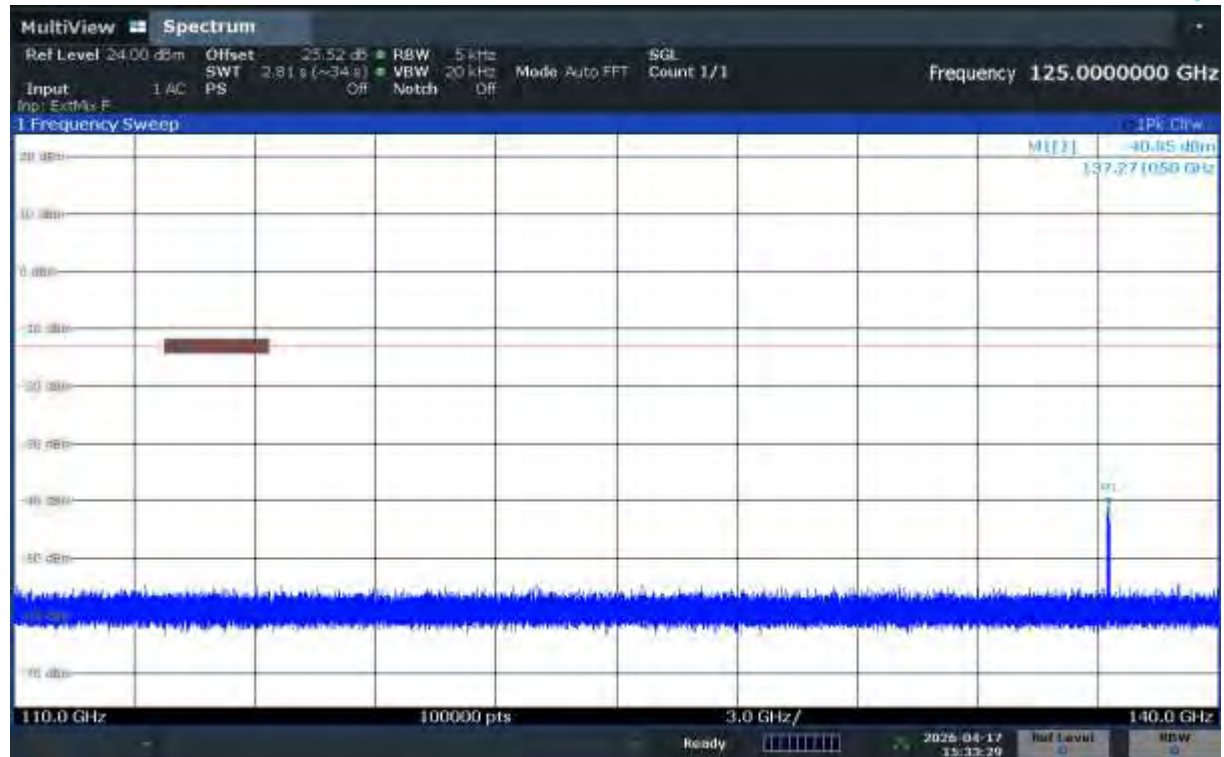






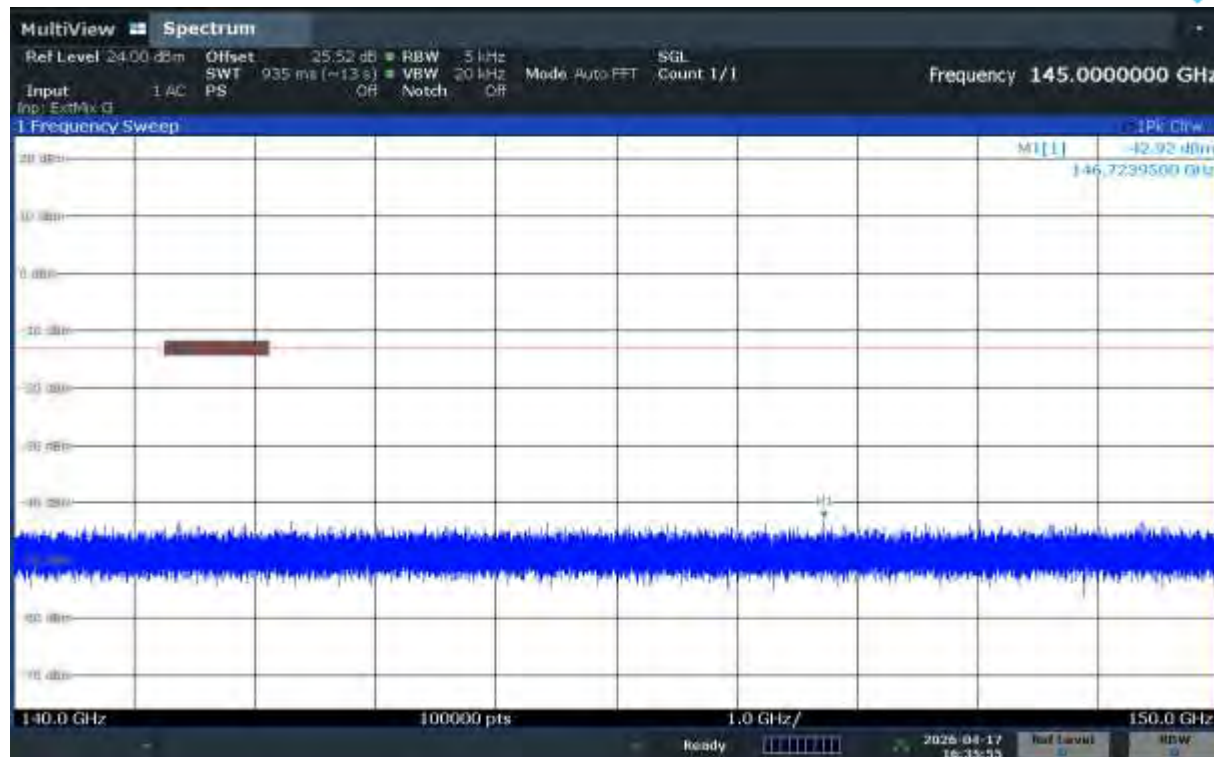


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:33:29

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:35:55

8.5.2.50. 8PSK 7MHz Mid Band Mid Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

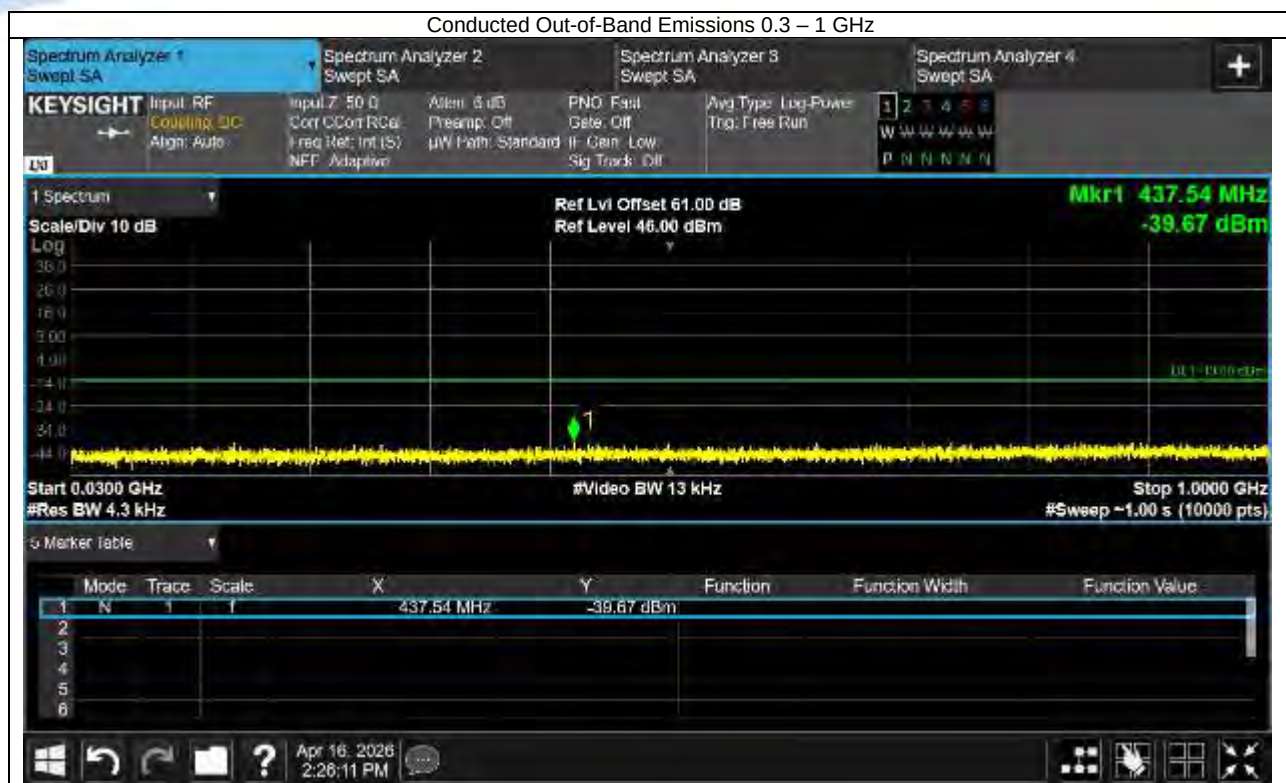
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

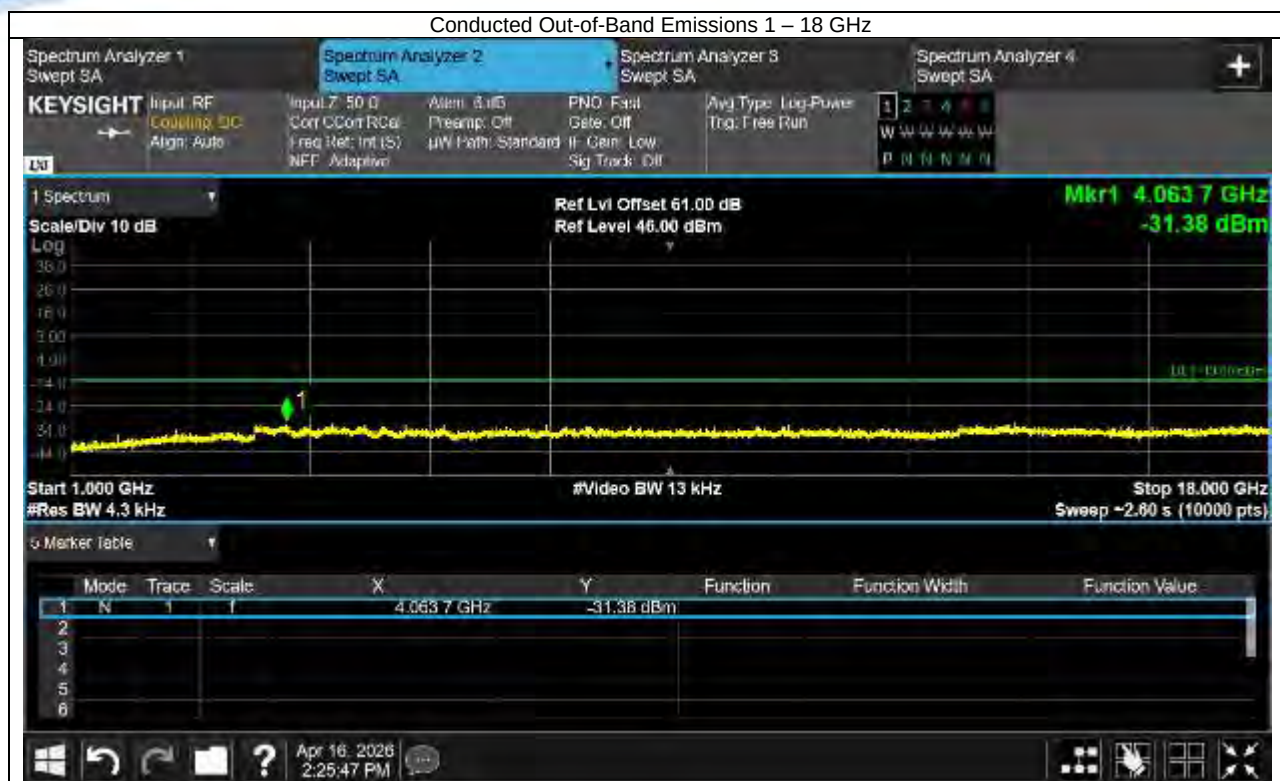
Test Measurement Results

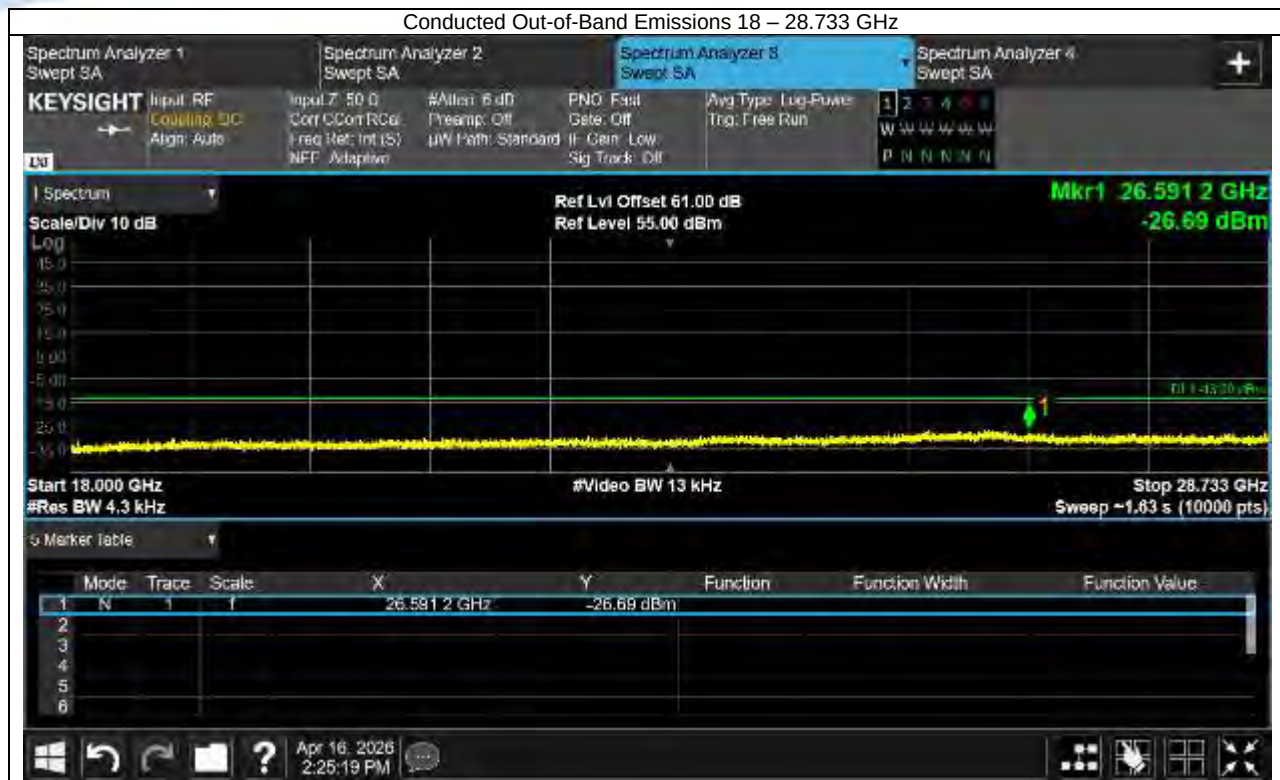
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 28750.00 MHz						
30MHz-1GHz	437.54	-39.67	--	-13.00	-26.67	Complies
1-18GHz	4063.70	-31.38	--	-13.00	-18.38	Complies
18-28.733GHz	26591.20	-26.69	--	-13.00	-13.69	Complies
28.768-40GHz	39162.00	-22.15	--	-13.00	-9.15	Complies
40-50GHz	49660.00	-50.60	--	-13.00	-37.60	Complies
50-75 GHz	54849.00	-65.54	-60.30	-13.00	-47.30	Complies
75-110GHz	91196.20	-62.96	--	-13.00	-49.96	Complies
110-140GHz	138498.95	-48.46	-35.17	-13.00	-22.17	Complies
140-150GHz	148412.55	-42.83	--	-13.00	-29.83	Complies

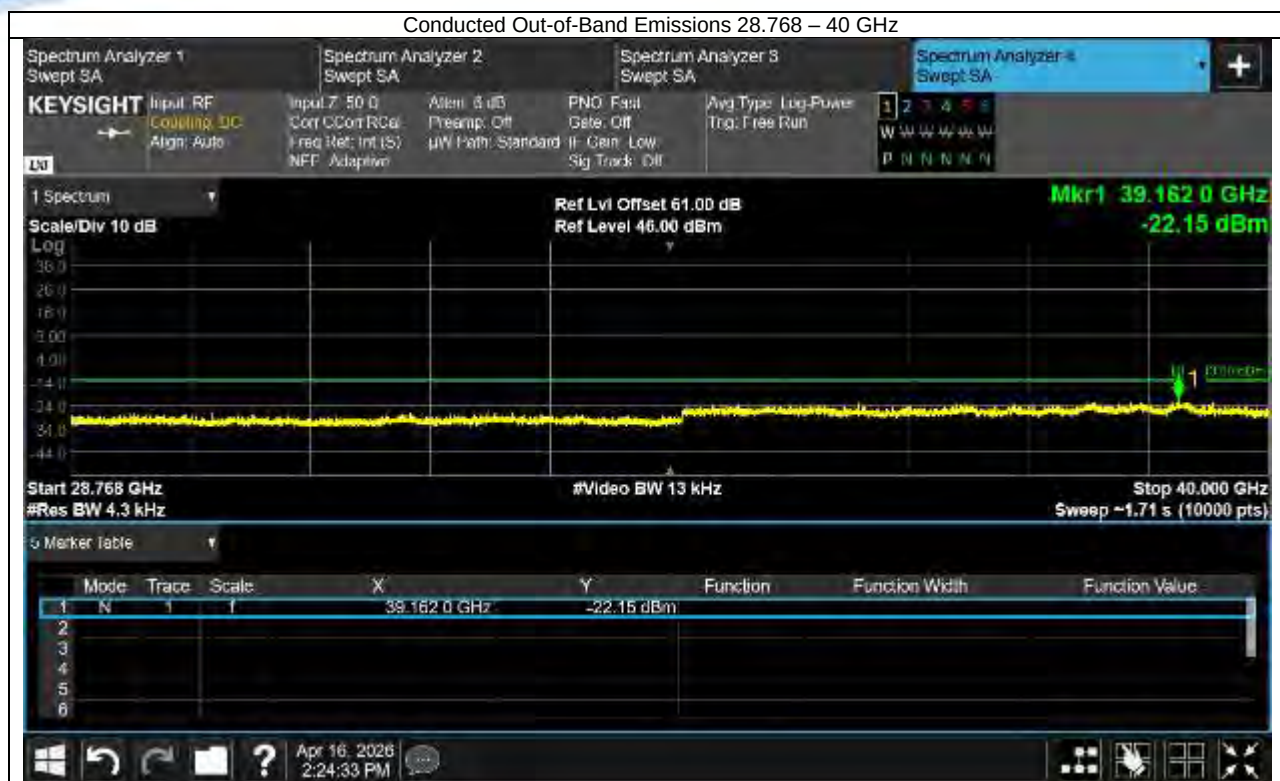
Traceability to Industry Recognized Test Methodologies

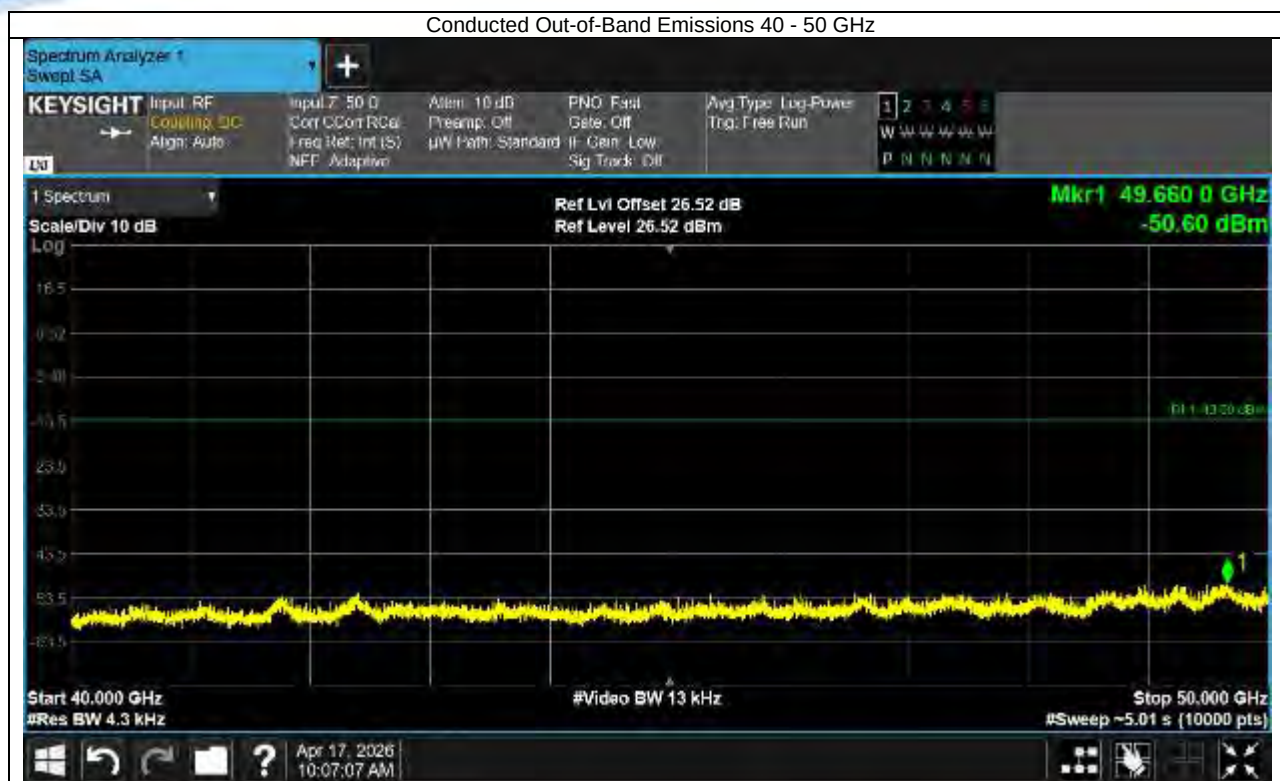
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ± 2.37 dB, > 40 GHz ± 4.6 dB

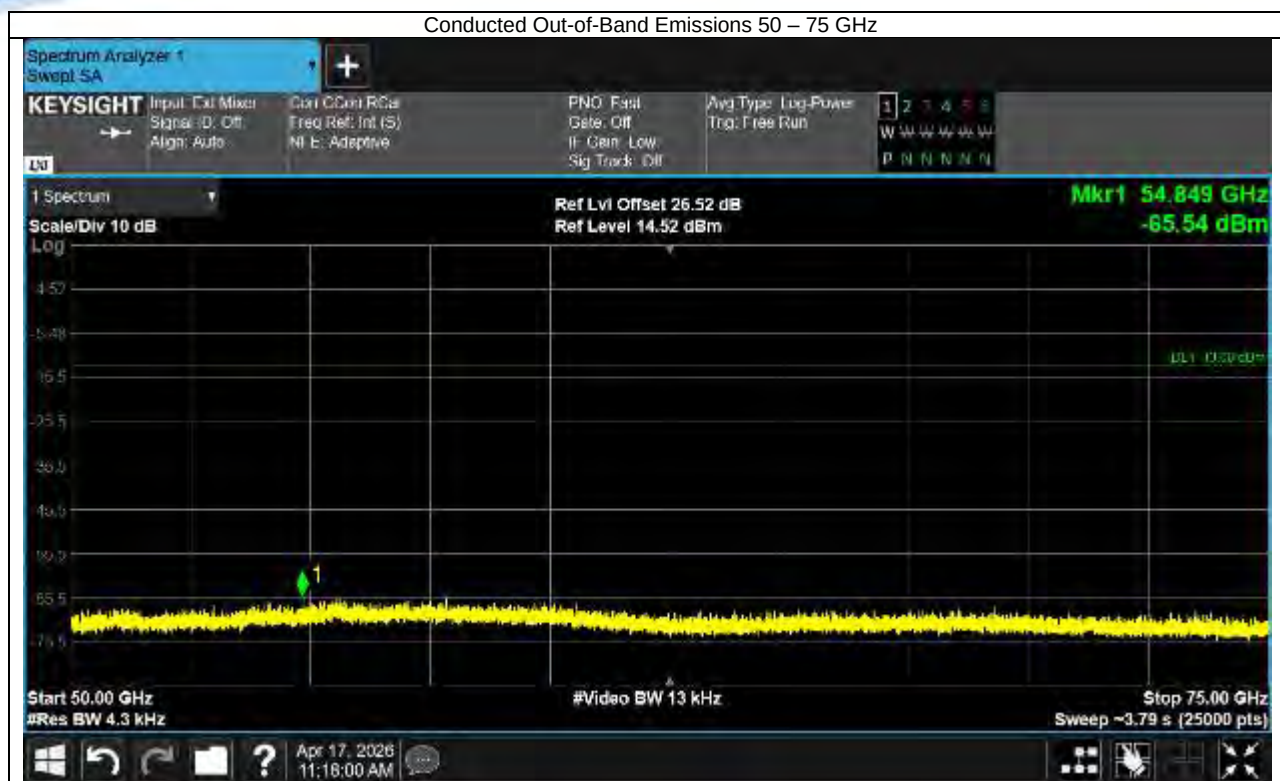


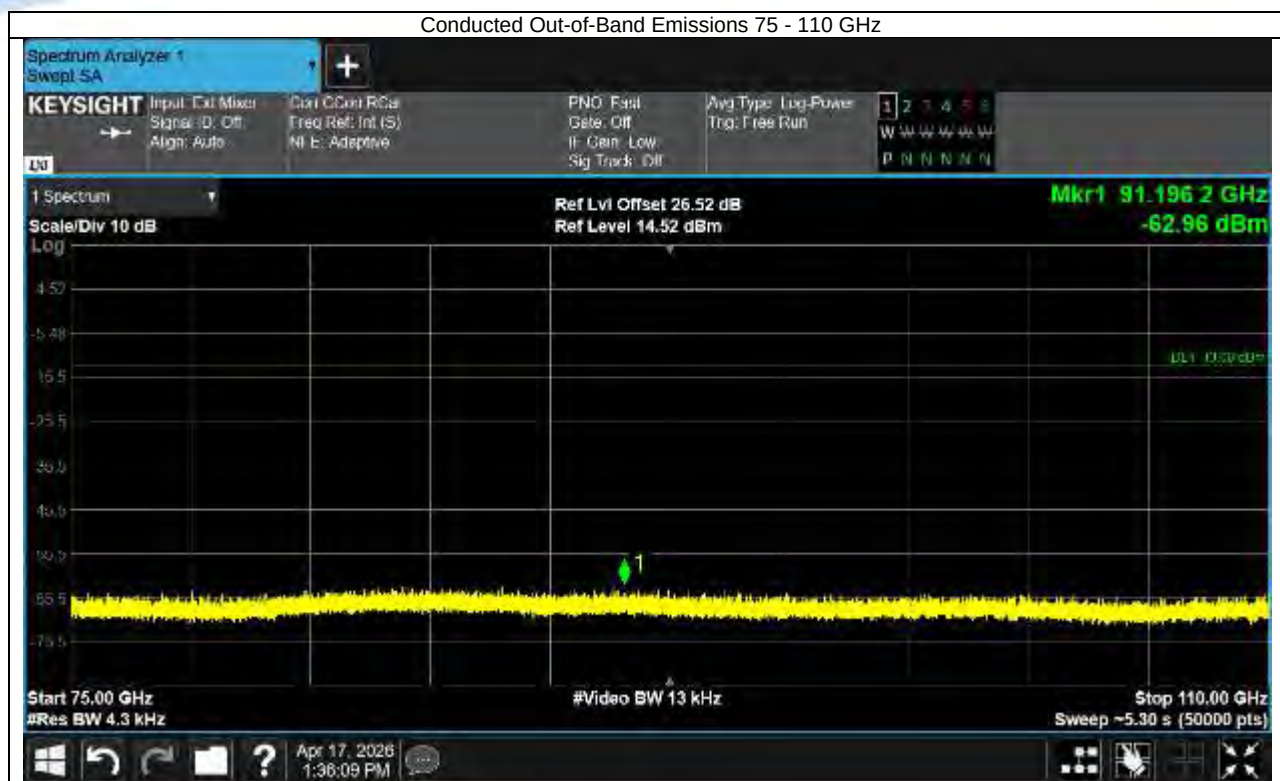




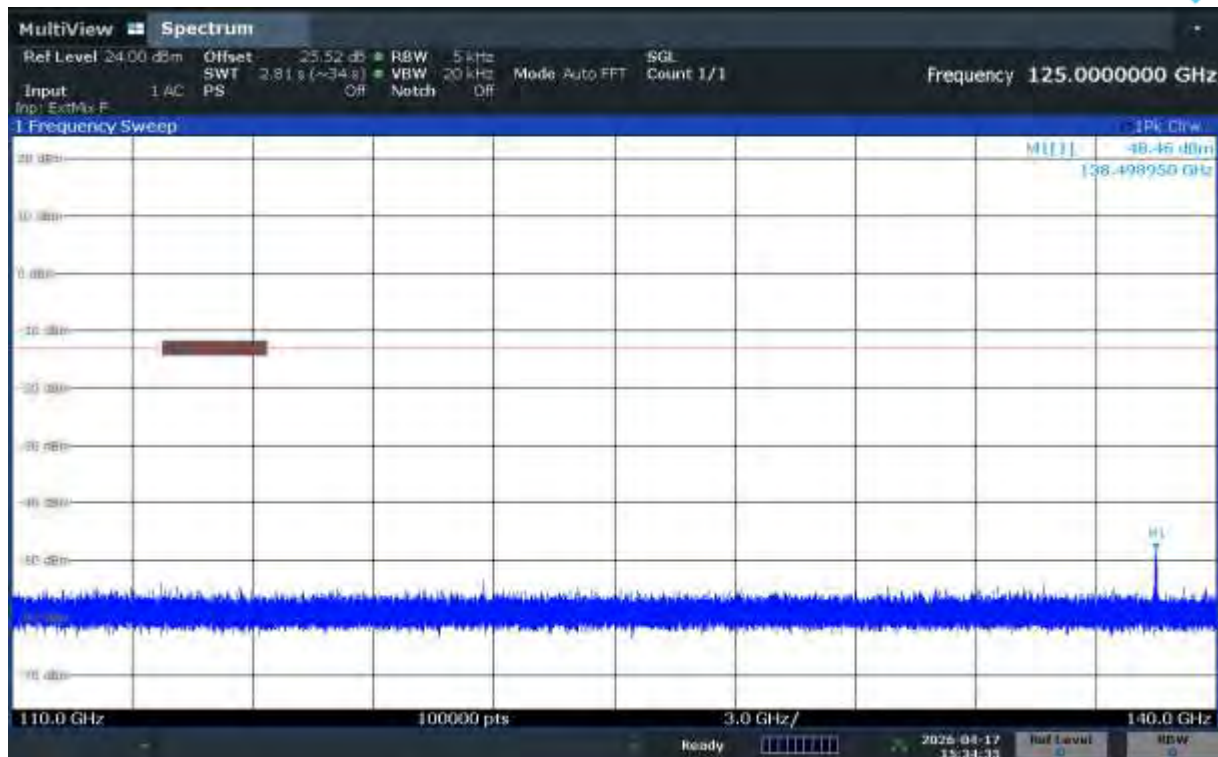






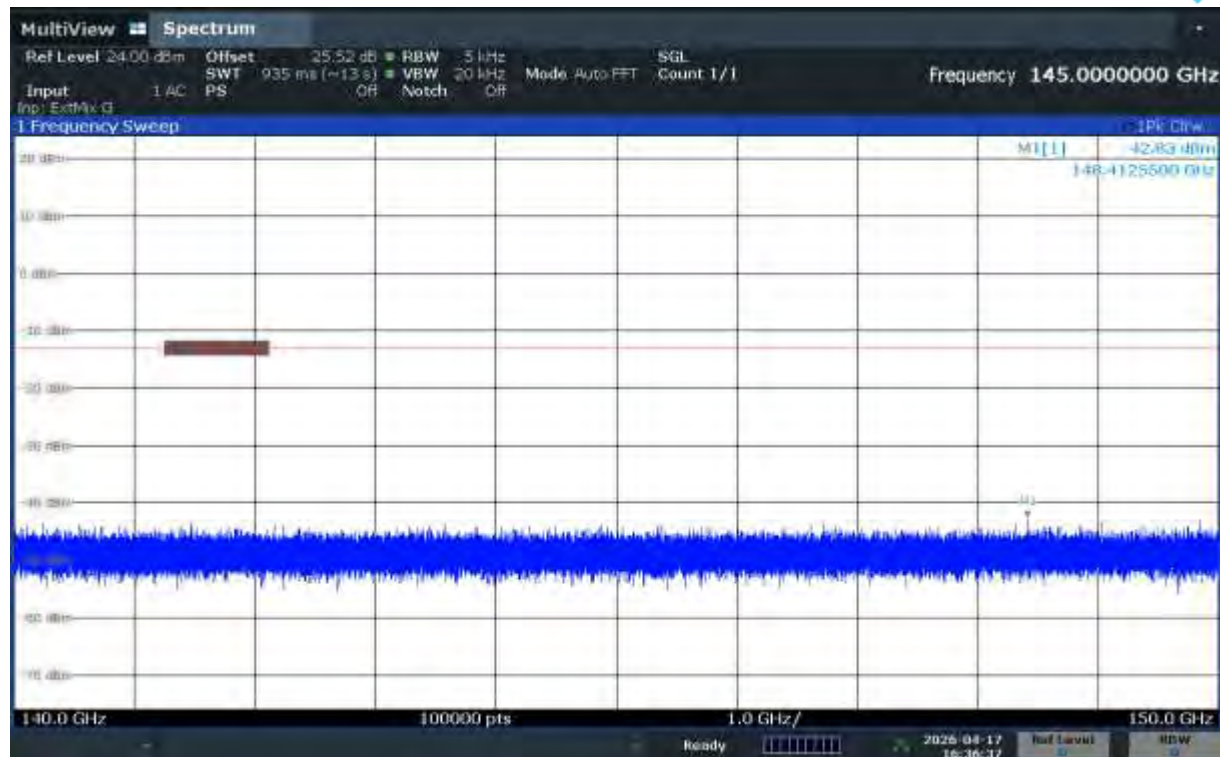


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:34:35

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:36:37

8.5.2.51. 8PSK 7MHz Mid Band High Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

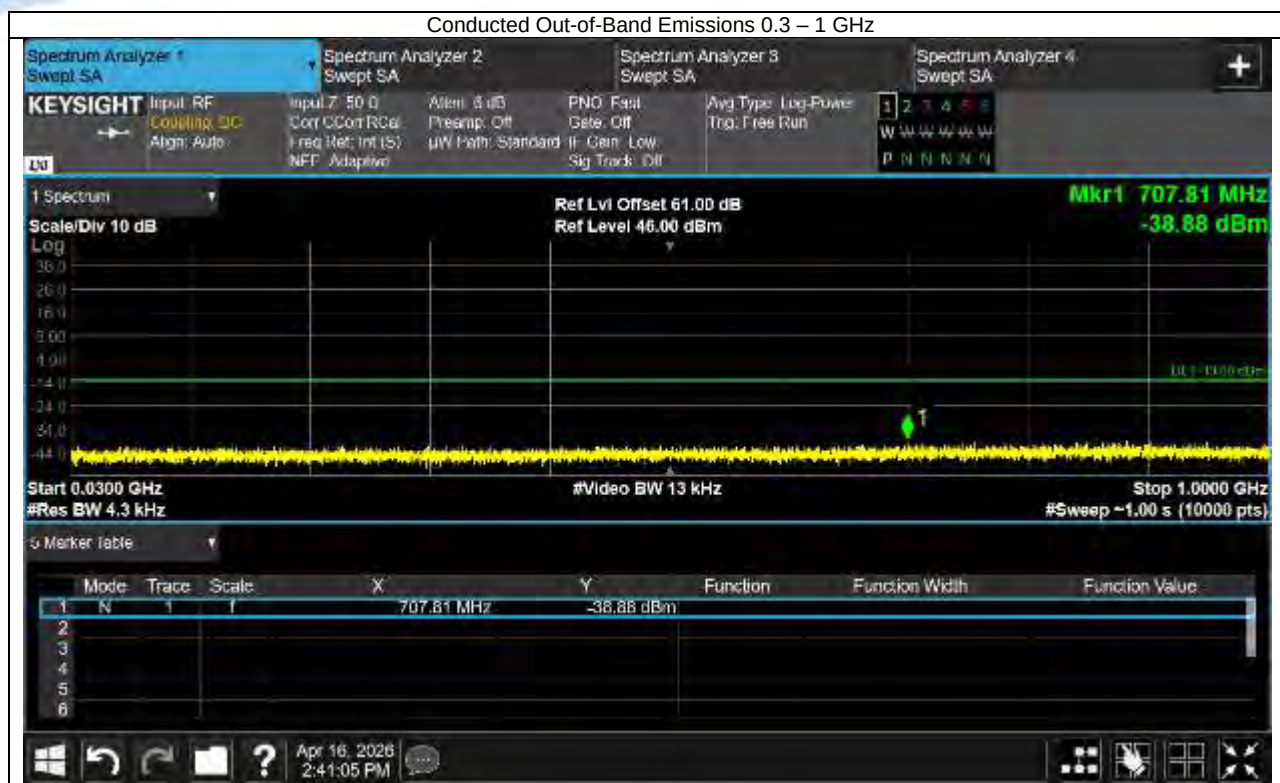
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

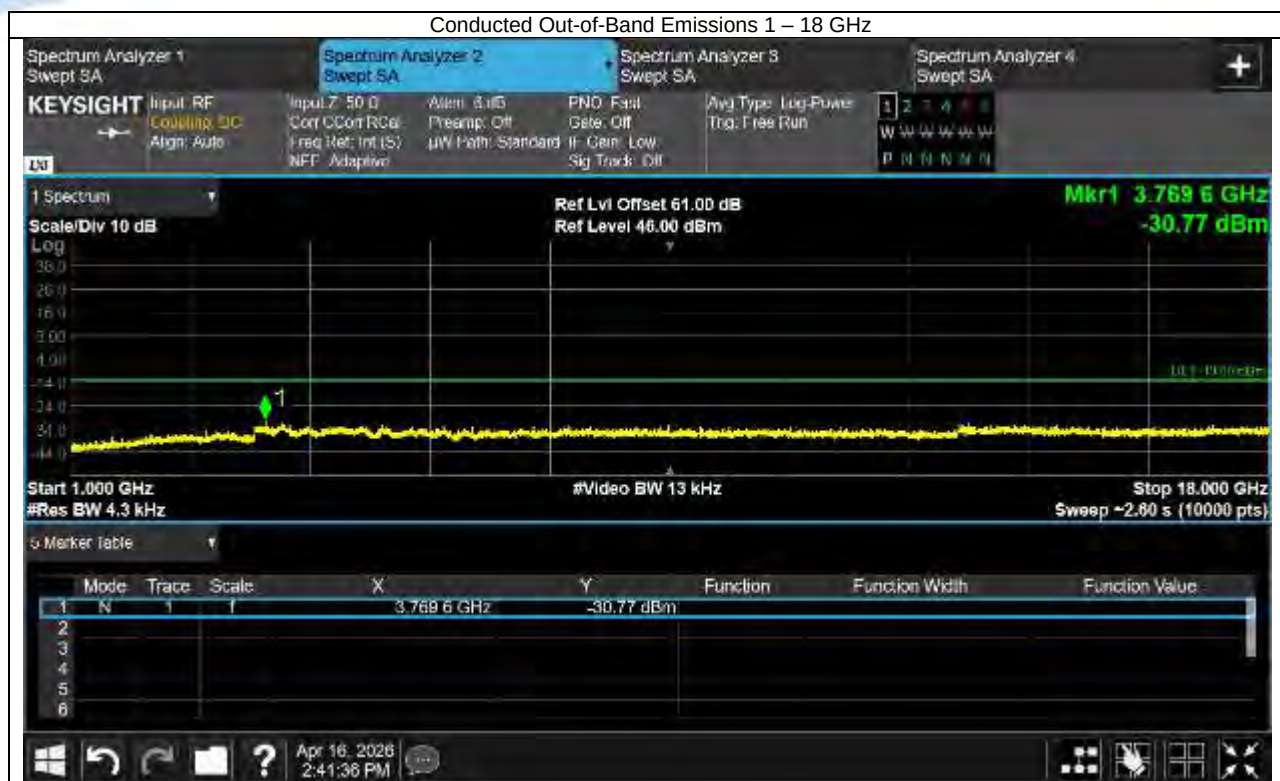
Test Measurement Results

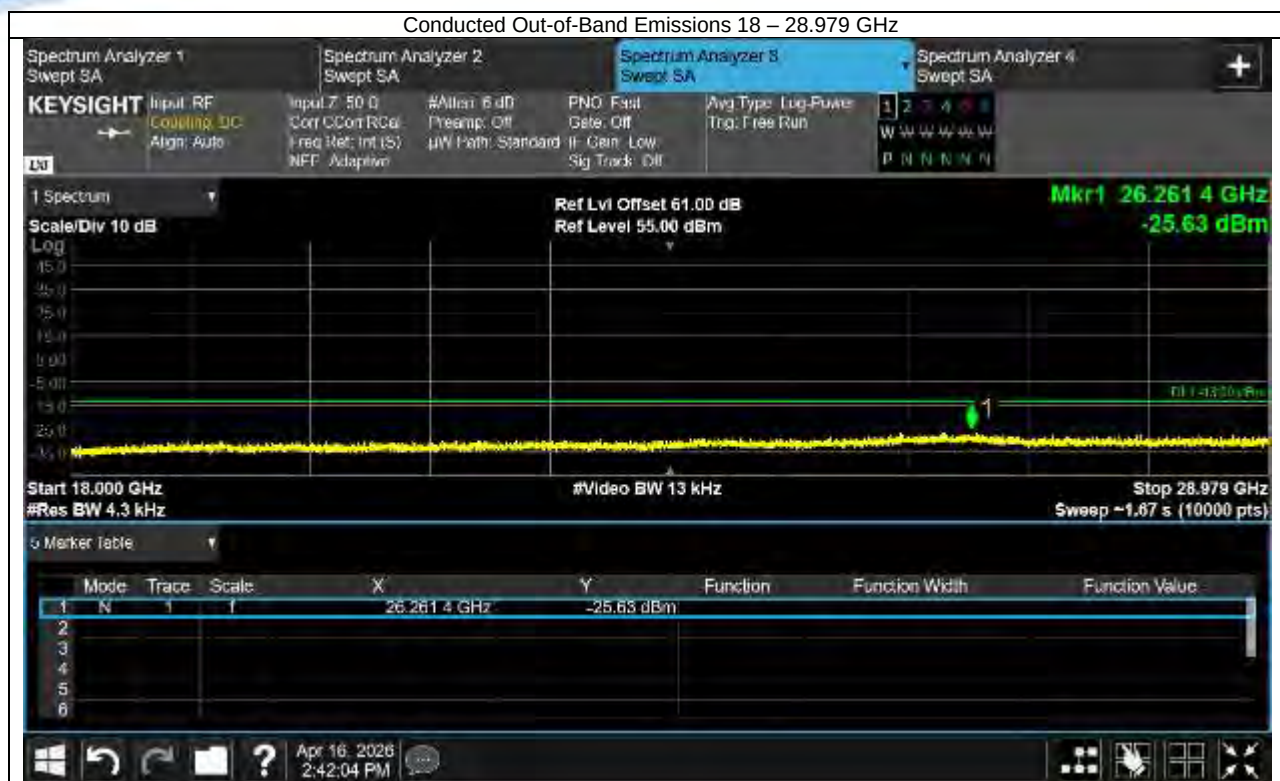
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 28996.475 MHz						
30MHz-1GHz	707.81	-38.88	--	-13.00	-25.88	Complies
1-18GHz	3769.60	-30.77	--	-13.00	-17.77	Complies
18-28.979GHz	26261.40	-25.63	--	-13.00	-12.63	Complies
29.014-40GHz	38350.80	-21.24	--	-13.00	-8.24	Complies
40-50GHz	49600.00	-50.32	--	-13.00	-37.32	Complies
50-75 GHz	64680.00	-65.13	-58.46	-13.00	-45.46	Complies
75-110GHz	86344.40	-62.77	--	-13.00	-49.77	Complies
110-140GHz	139685.75	-47.10	-33.74	-13.00	-20.74	Complies
140-150GHz	147934.95	-42.23	--	-13.00	-29.23	Complies

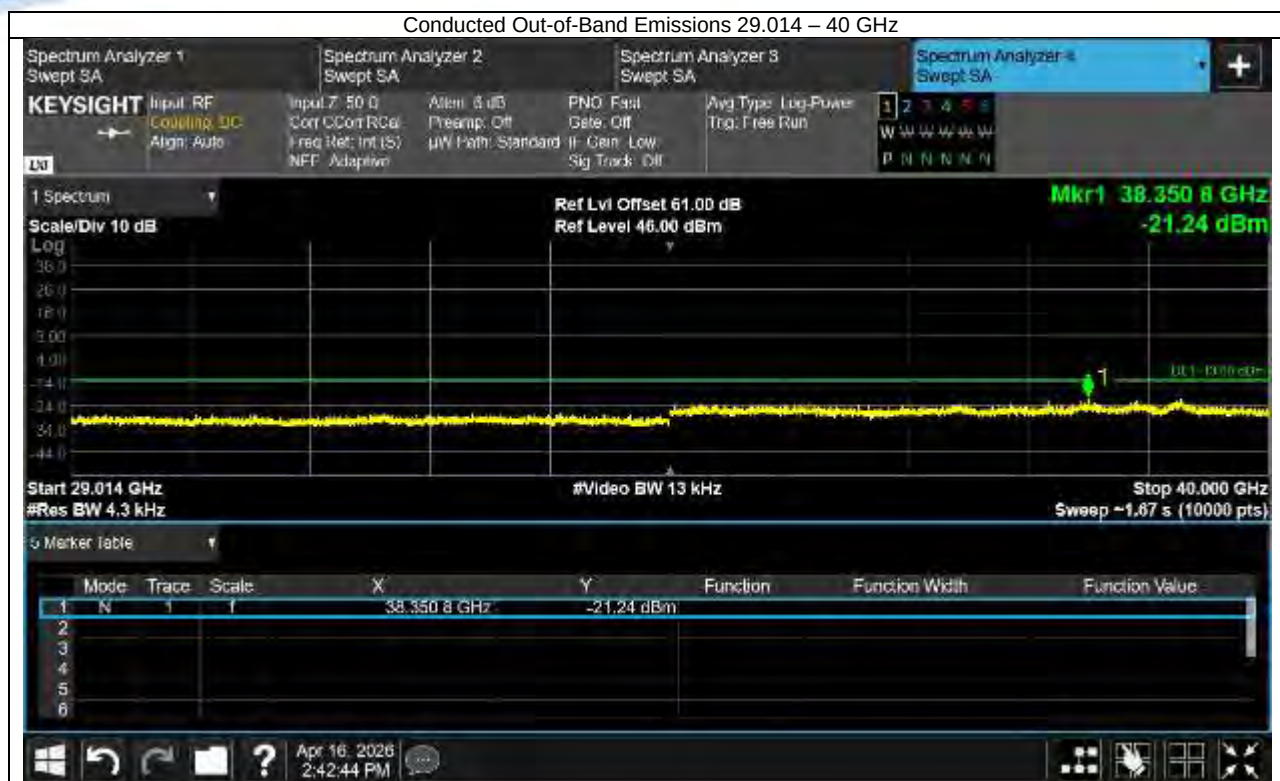
Traceability to Industry Recognized Test Methodologies

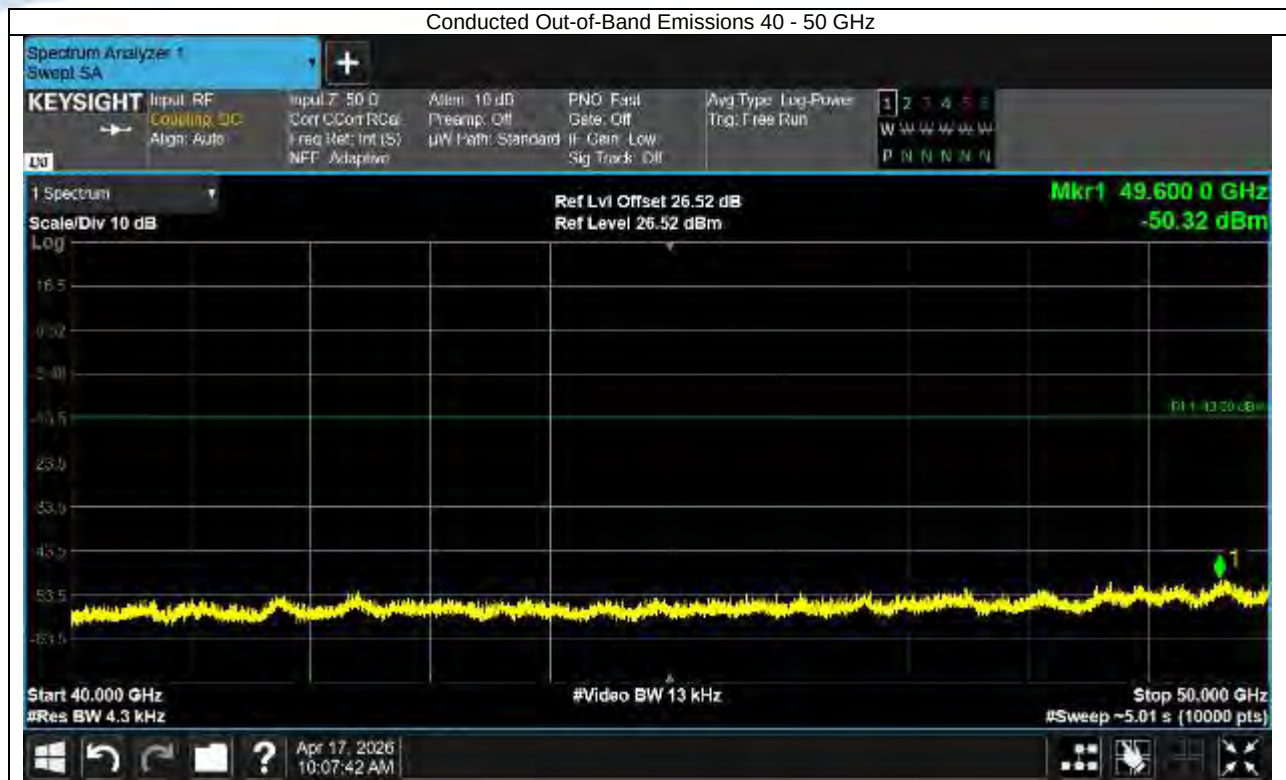
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ± 2.37 dB, > 40 GHz ± 4.6 dB

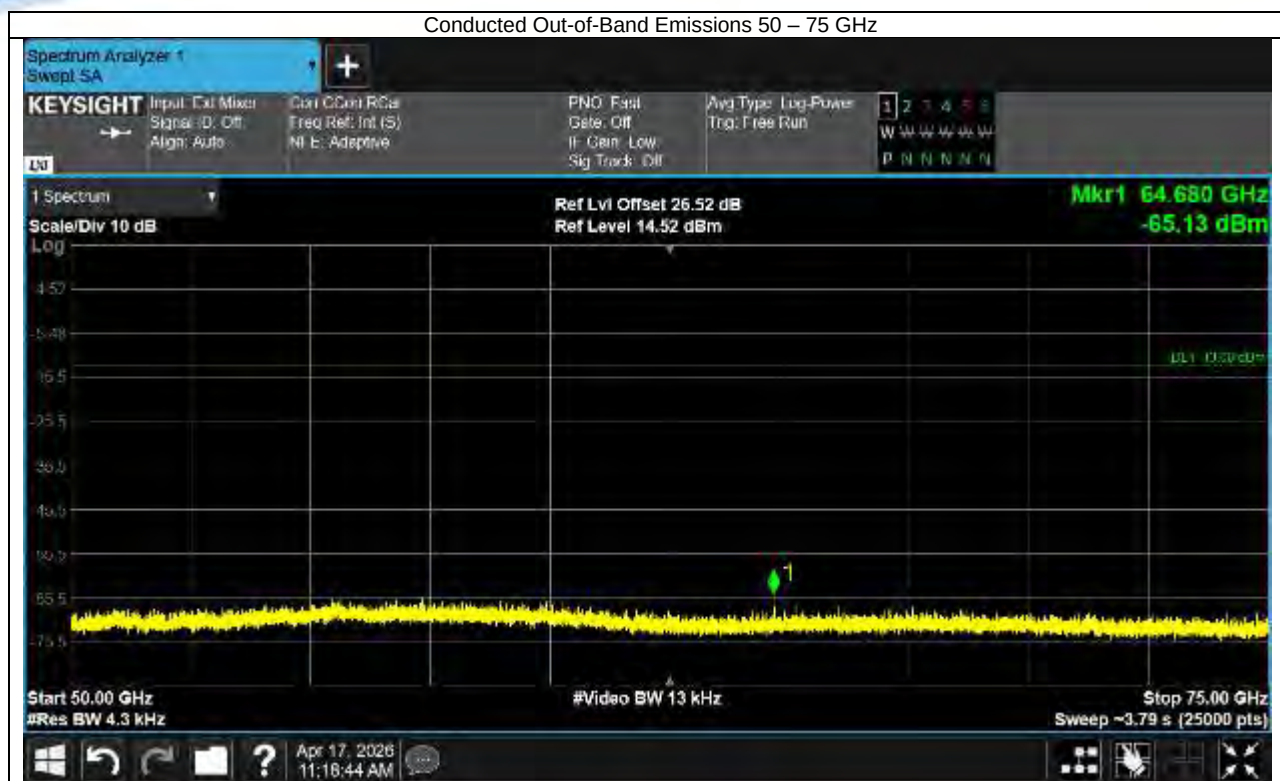


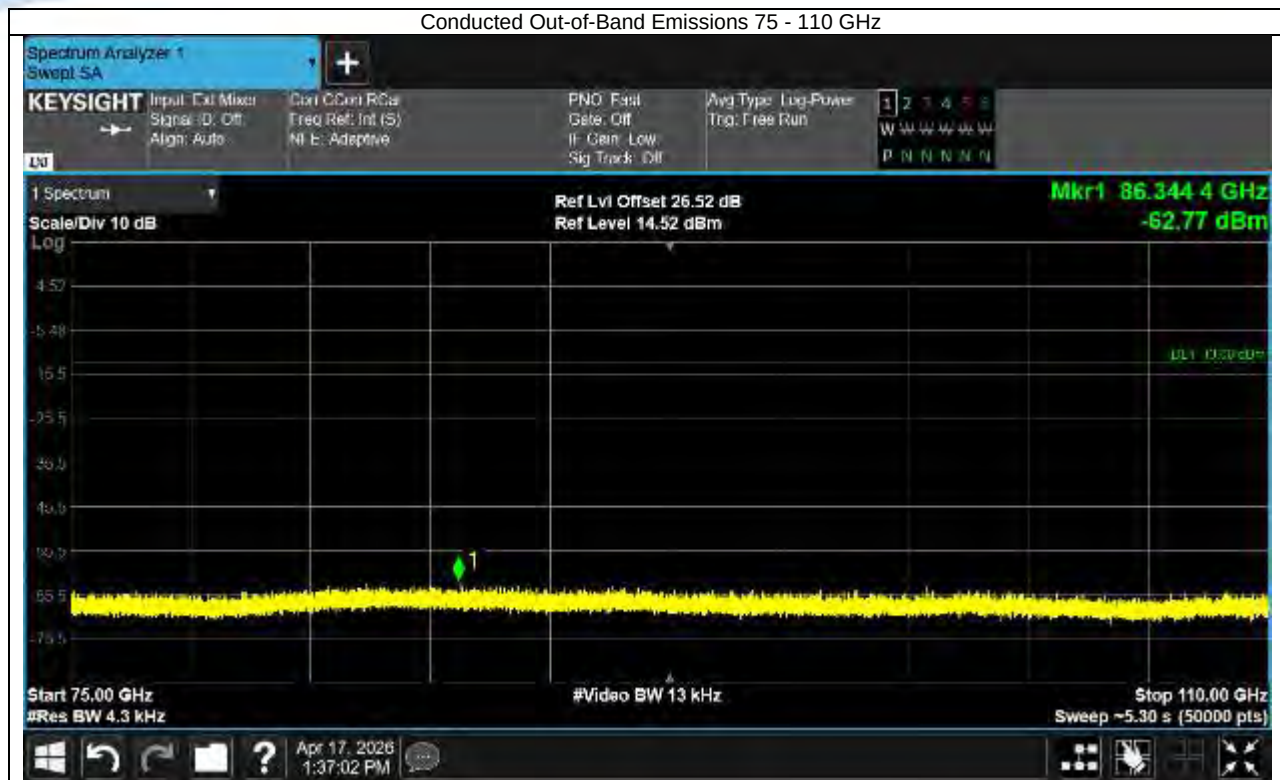




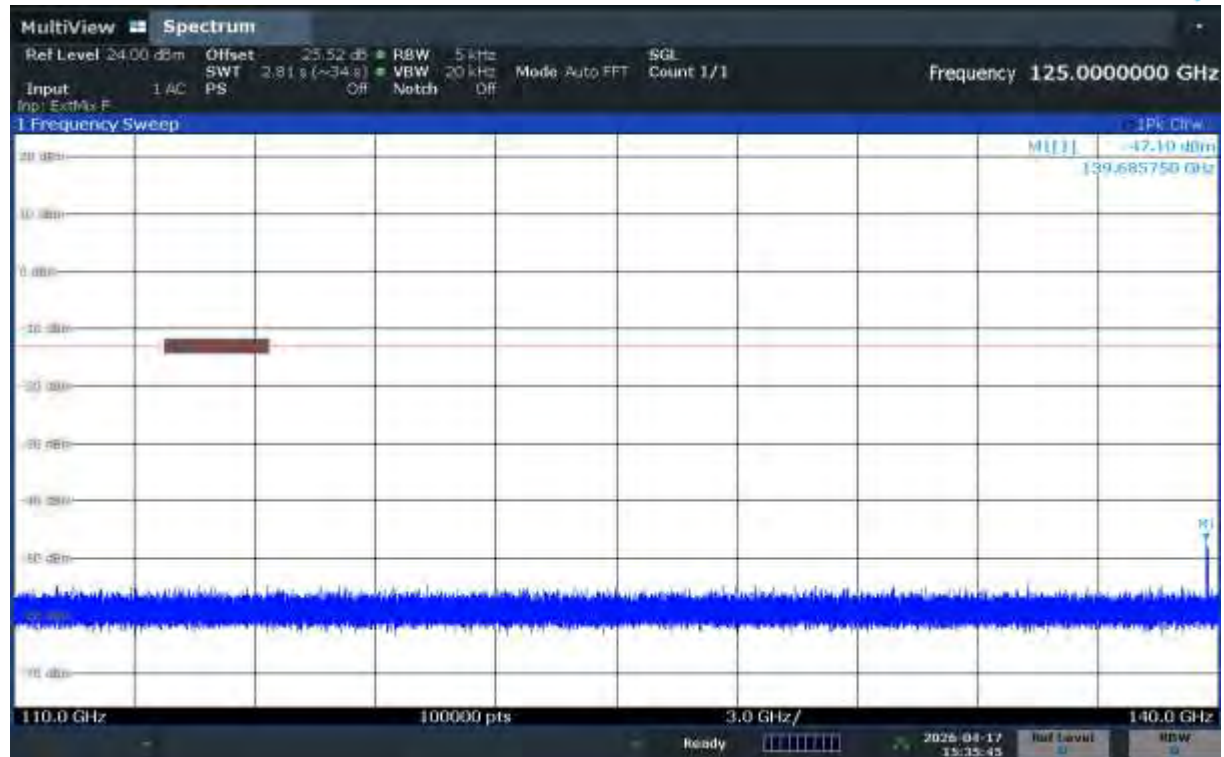






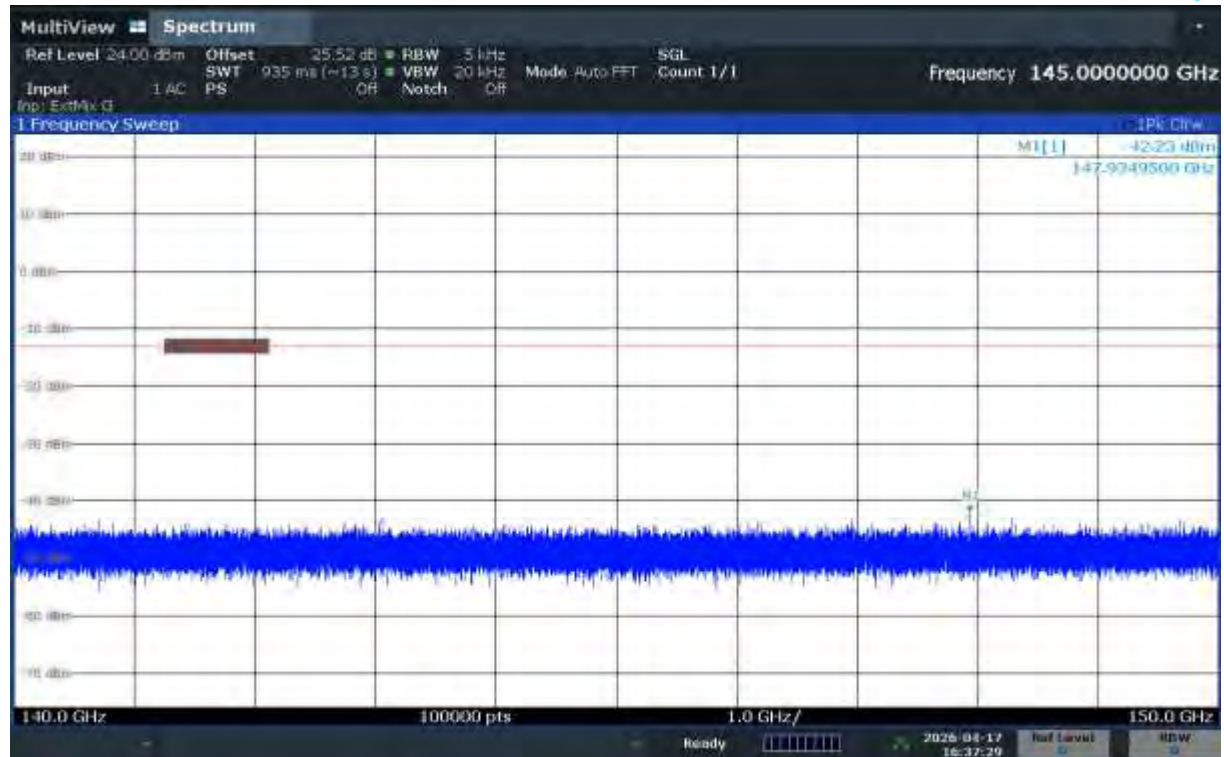


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:35:46

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:37:30

8.5.2.52. 8PSK 7MHz High Band Low Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

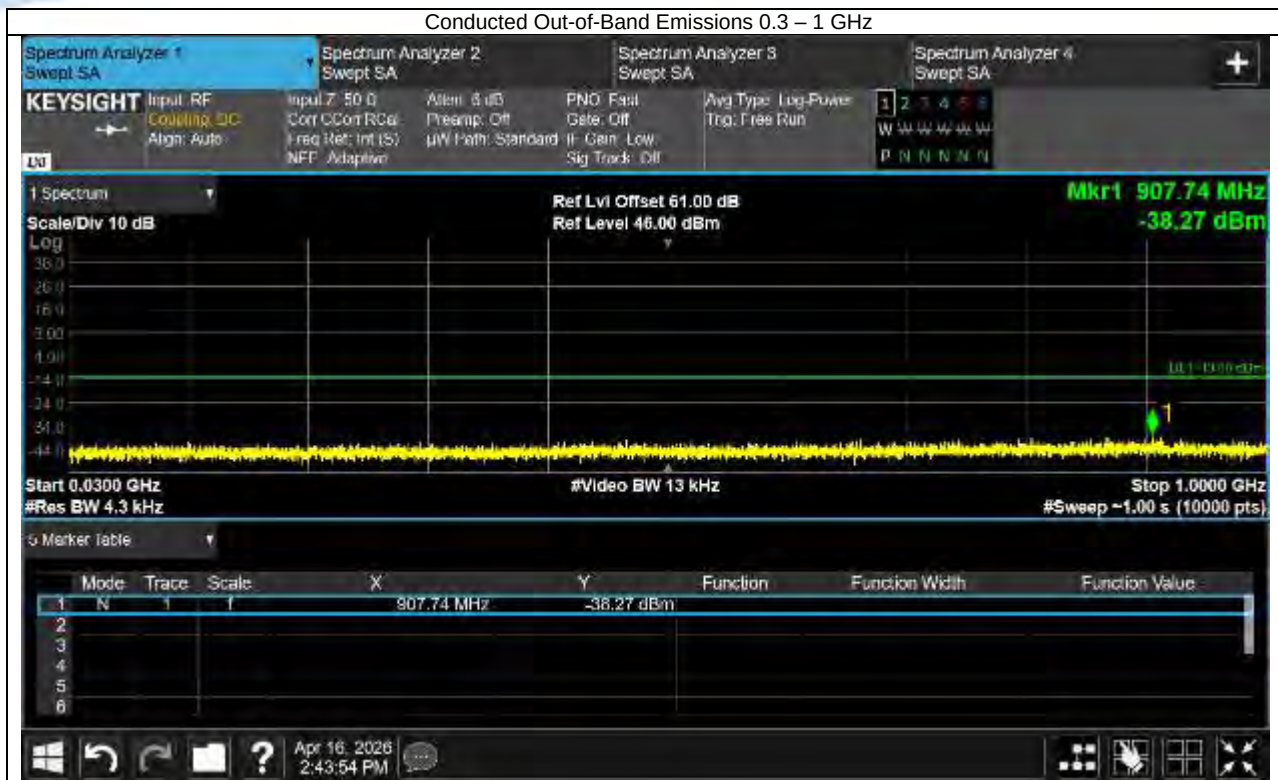
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

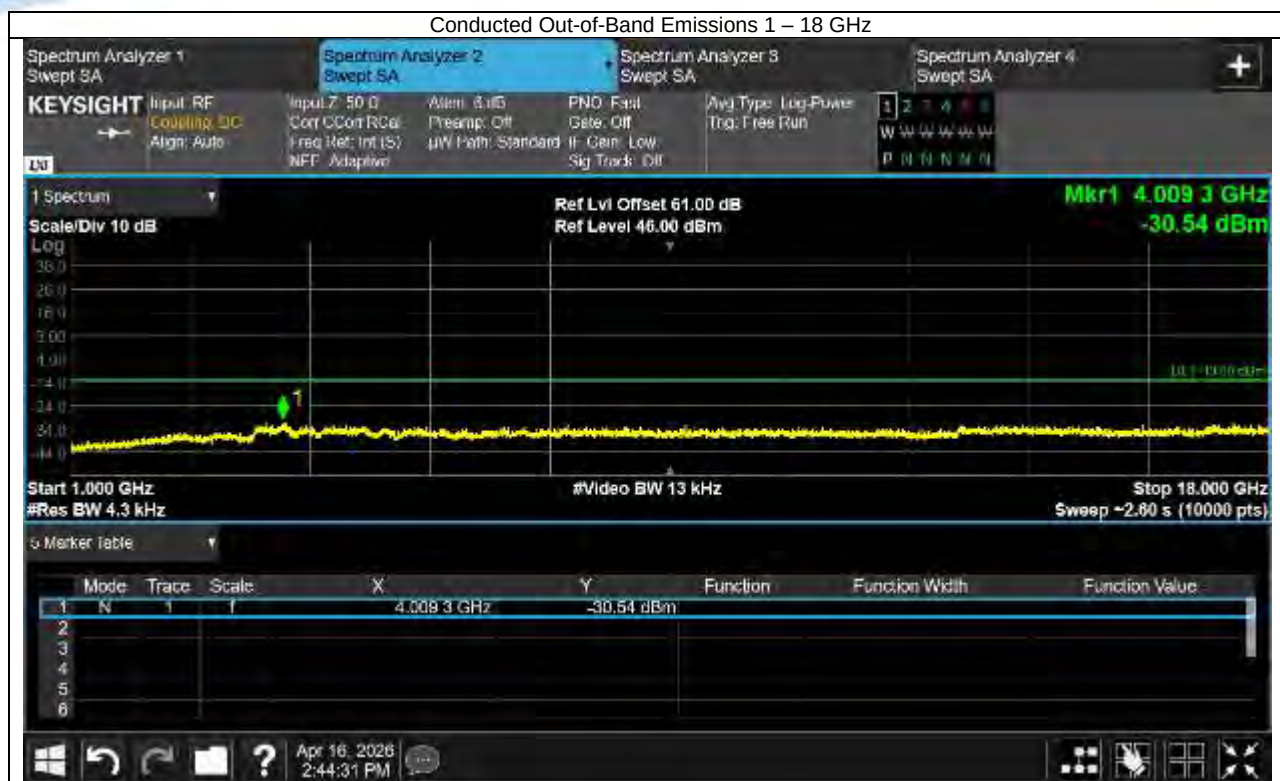
Test Measurement Results

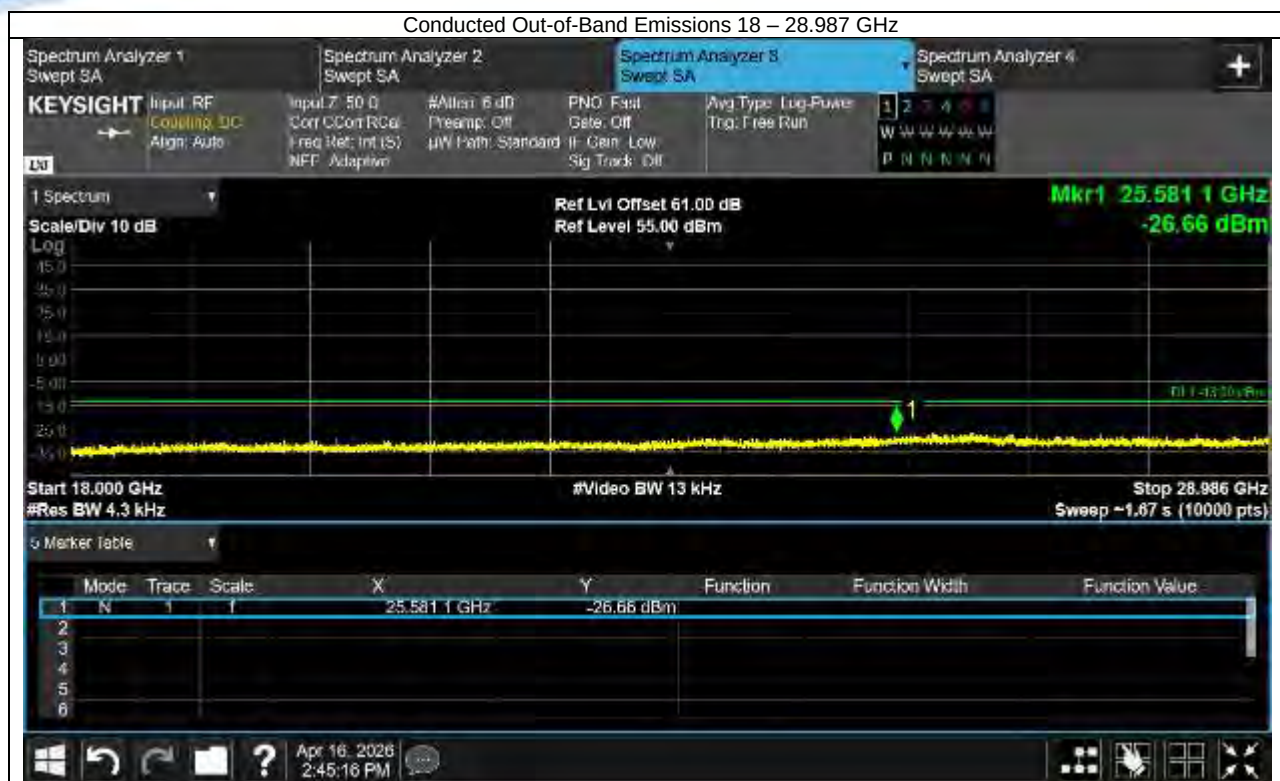
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 29003.525 MHz						
30MHz-1GHz	907.74	-38.27	--	-13.00	-25.27	Complies
1-18GHz	4009.30	-30.54	--	-13.00	-17.54	Complies
18-28.987GHz	25581.10	-26.66	--	-13.00	-13.66	Complies
29.021-40GHz	39172.10	-21.62	--	-13.00	-8.62	Complies
40-50GHz	49559.00	-49.96	--	-13.00	-36.96	Complies
50-75 GHz	56479.00	-65.56	-60.06	-13.00	-47.06	Complies
75-110GHz	86366.10	-61.78	--	-13.00	-48.78	Complies
110-140GHz	139746.65	-45.04	-31.68	-13.00	-18.68	Complies
140-150GHz	145151.75	-43.12	--	-13.00	-30.12	Complies

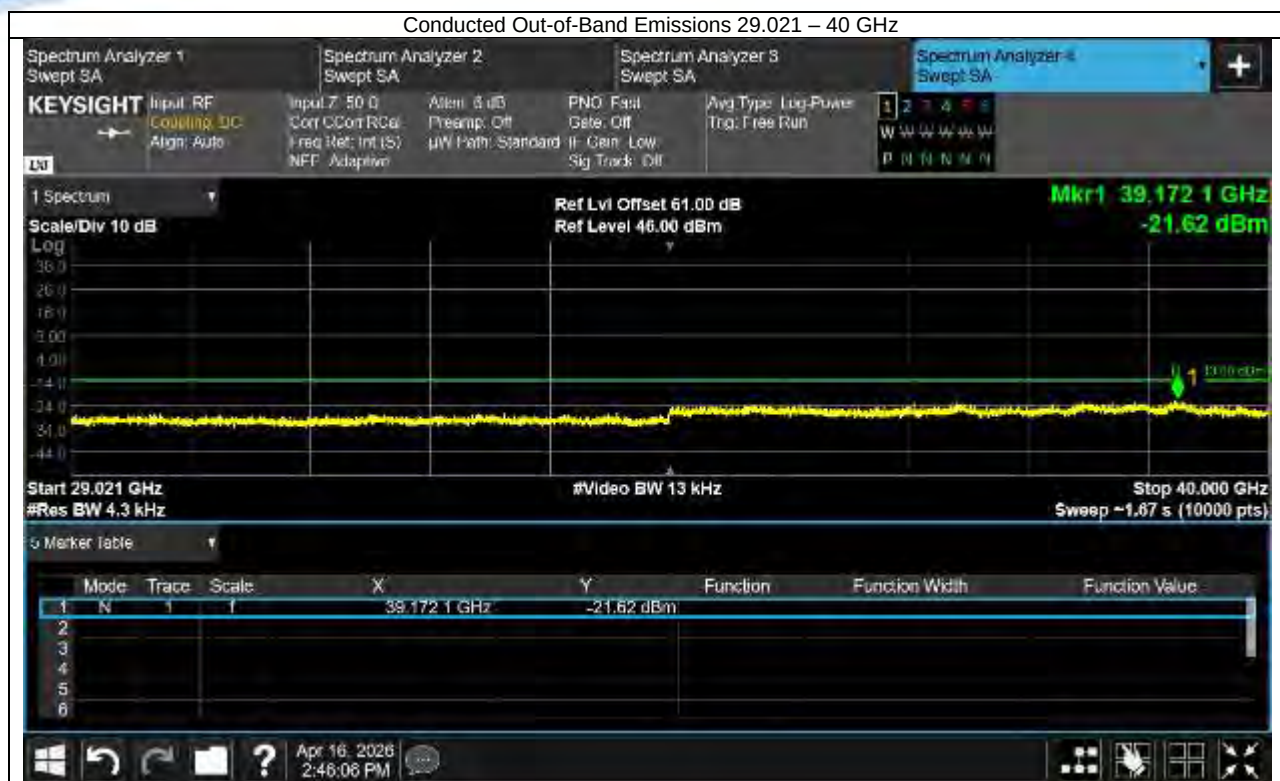
Traceability to Industry Recognized Test Methodologies

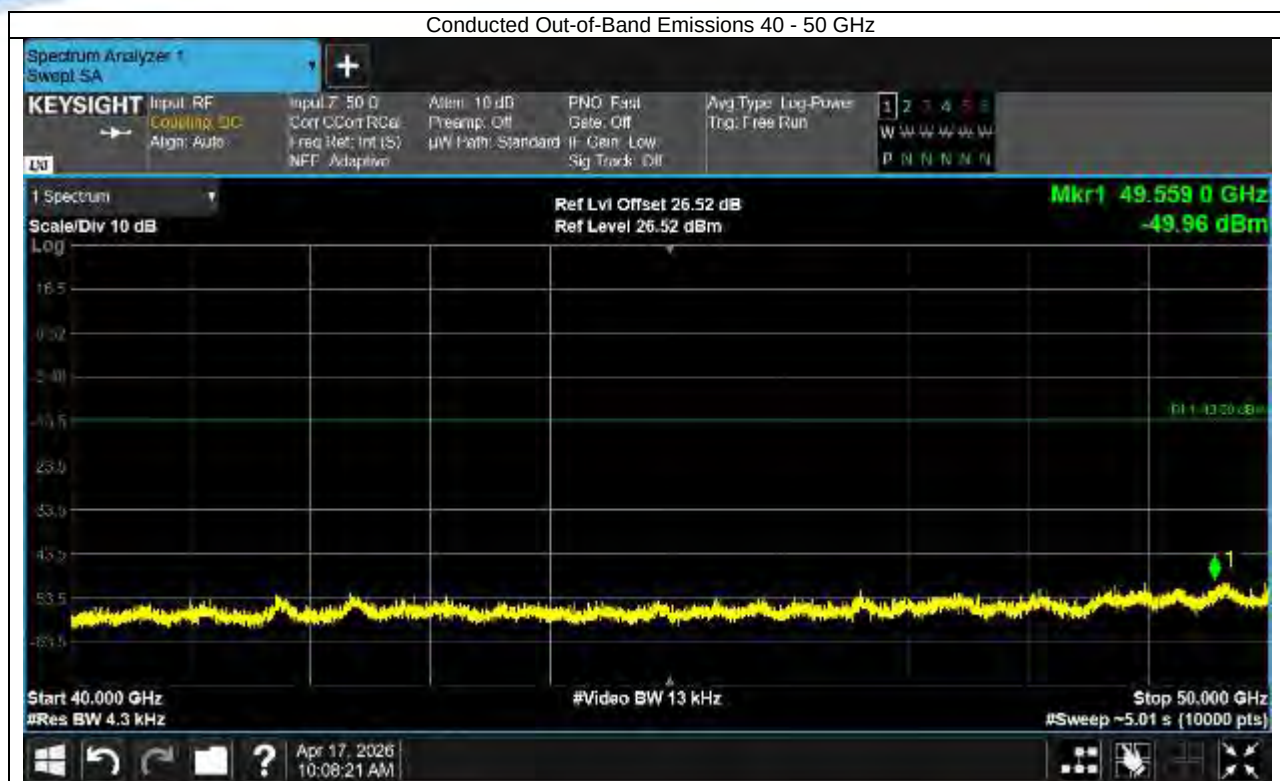
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

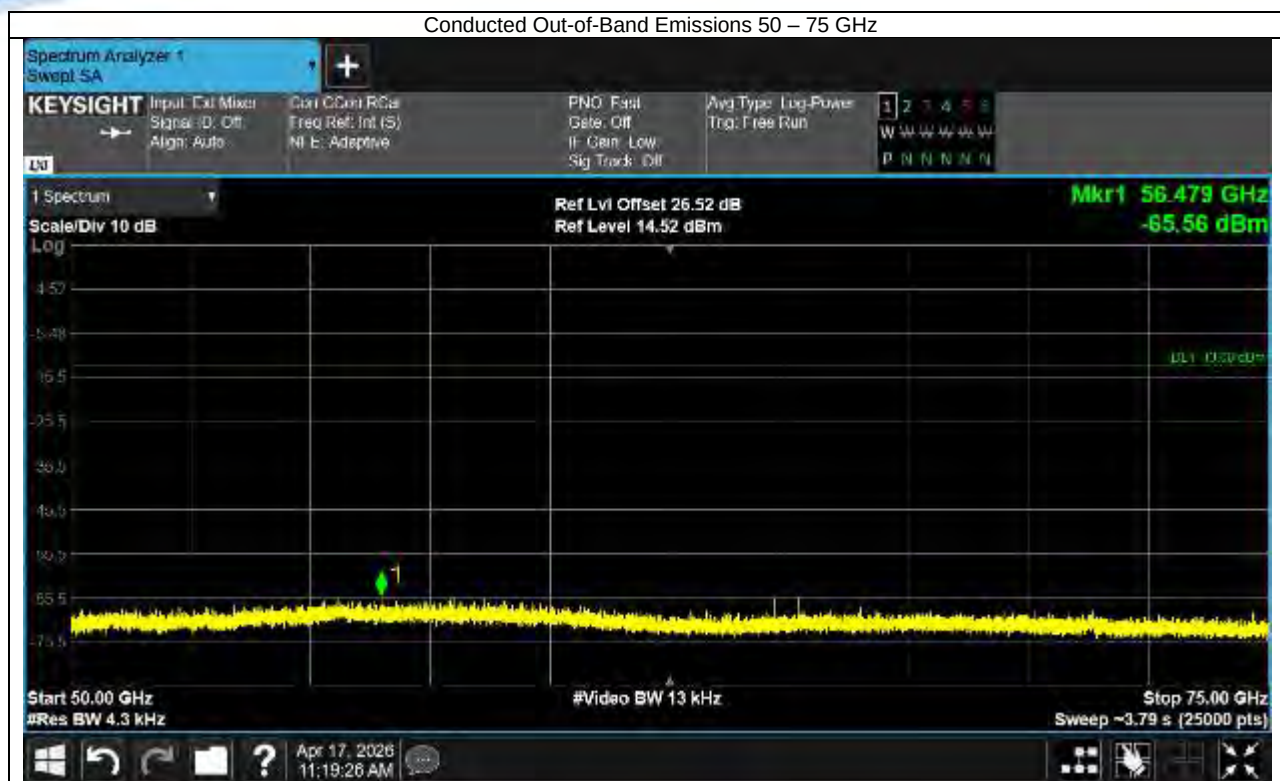


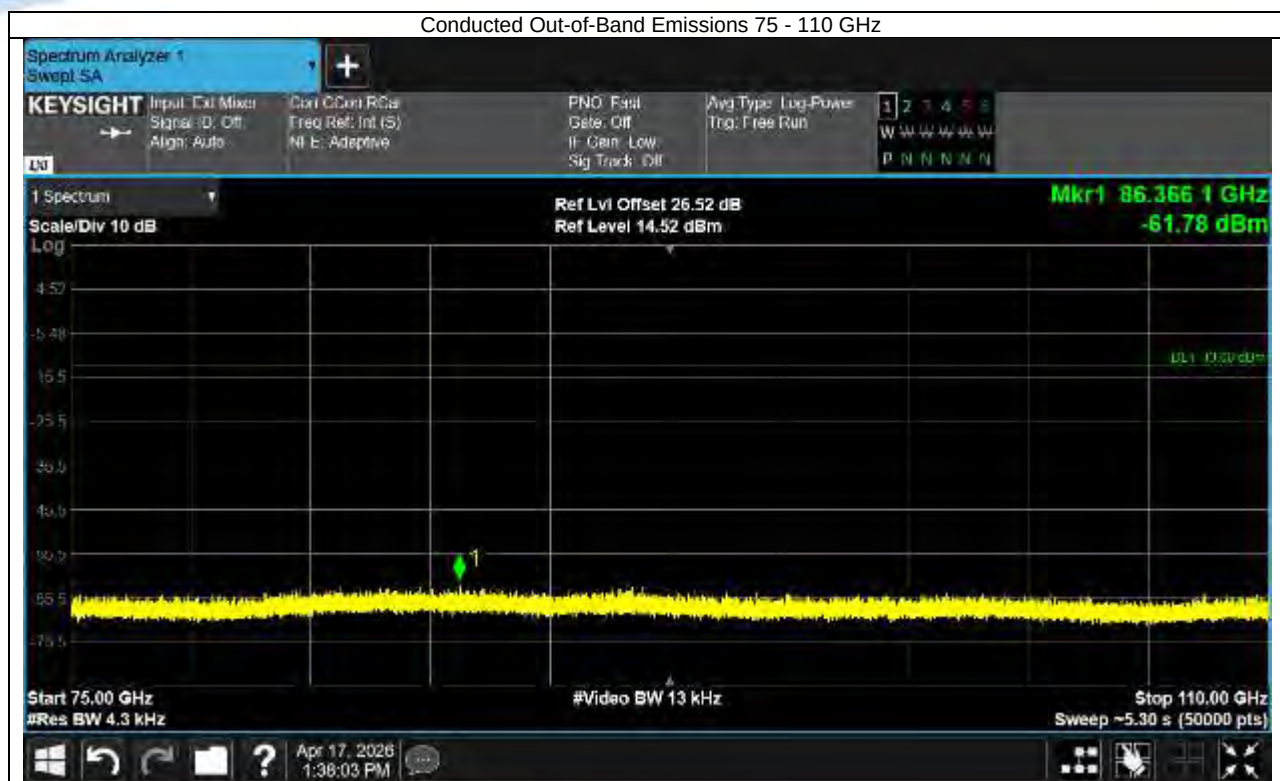




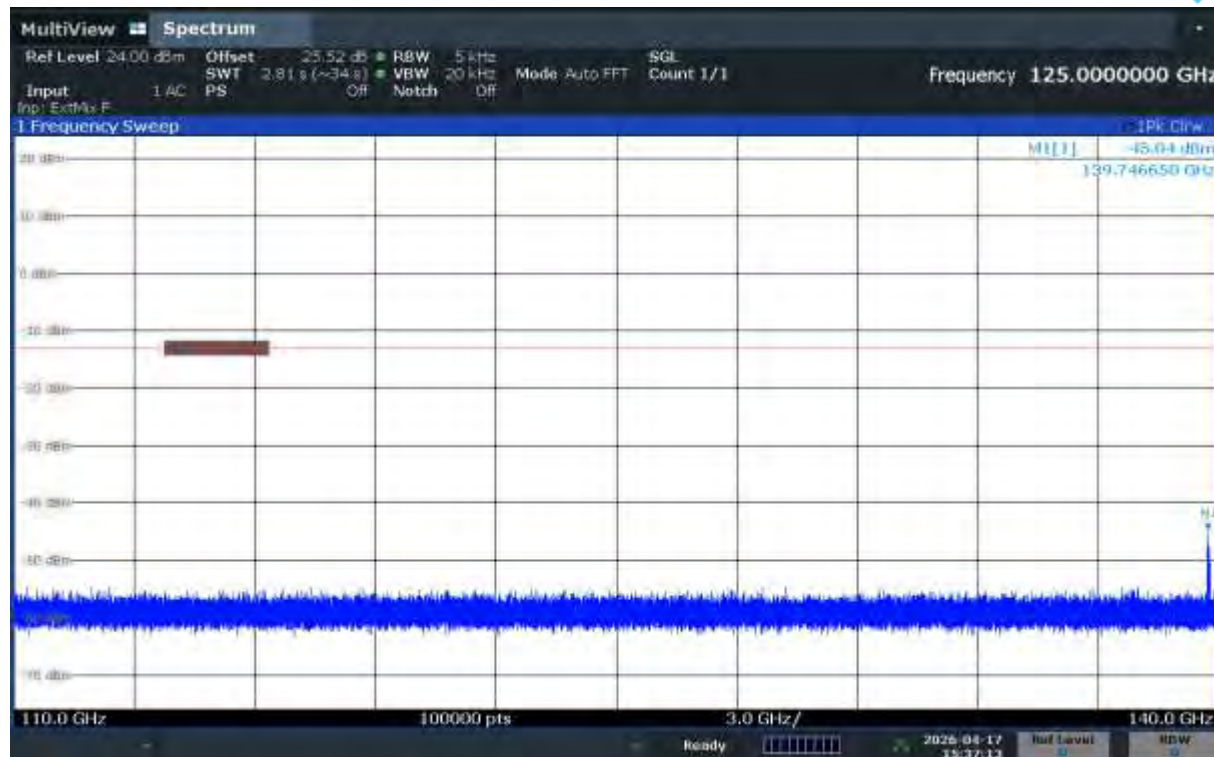






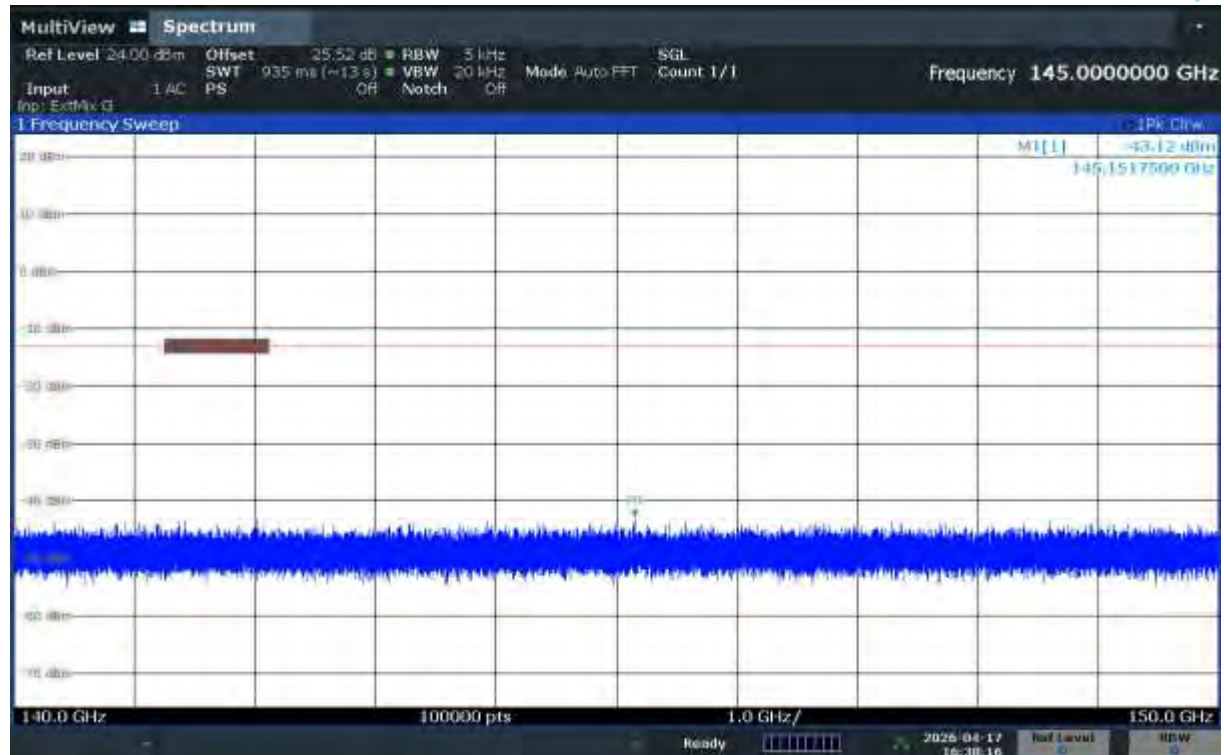


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:37:13

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:38:17

8.5.2.53. 8PSK 7MHz High Band Mid Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

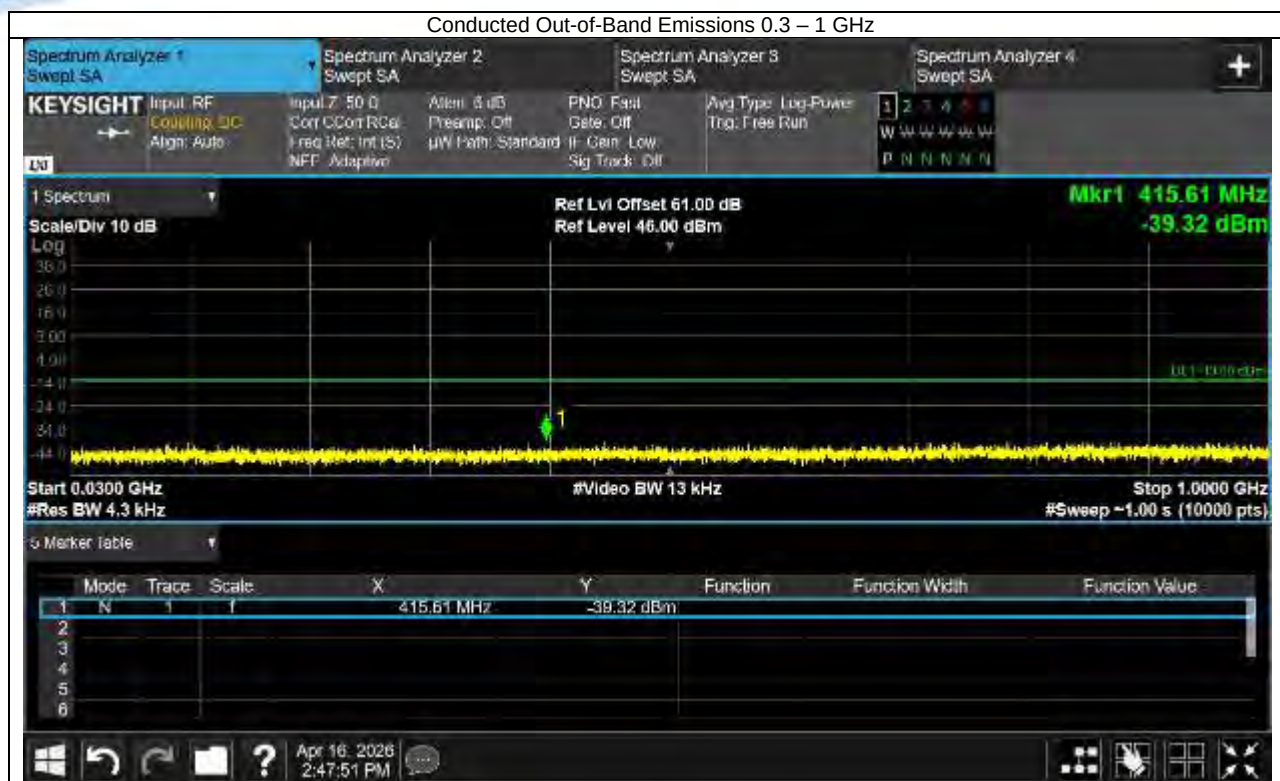
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

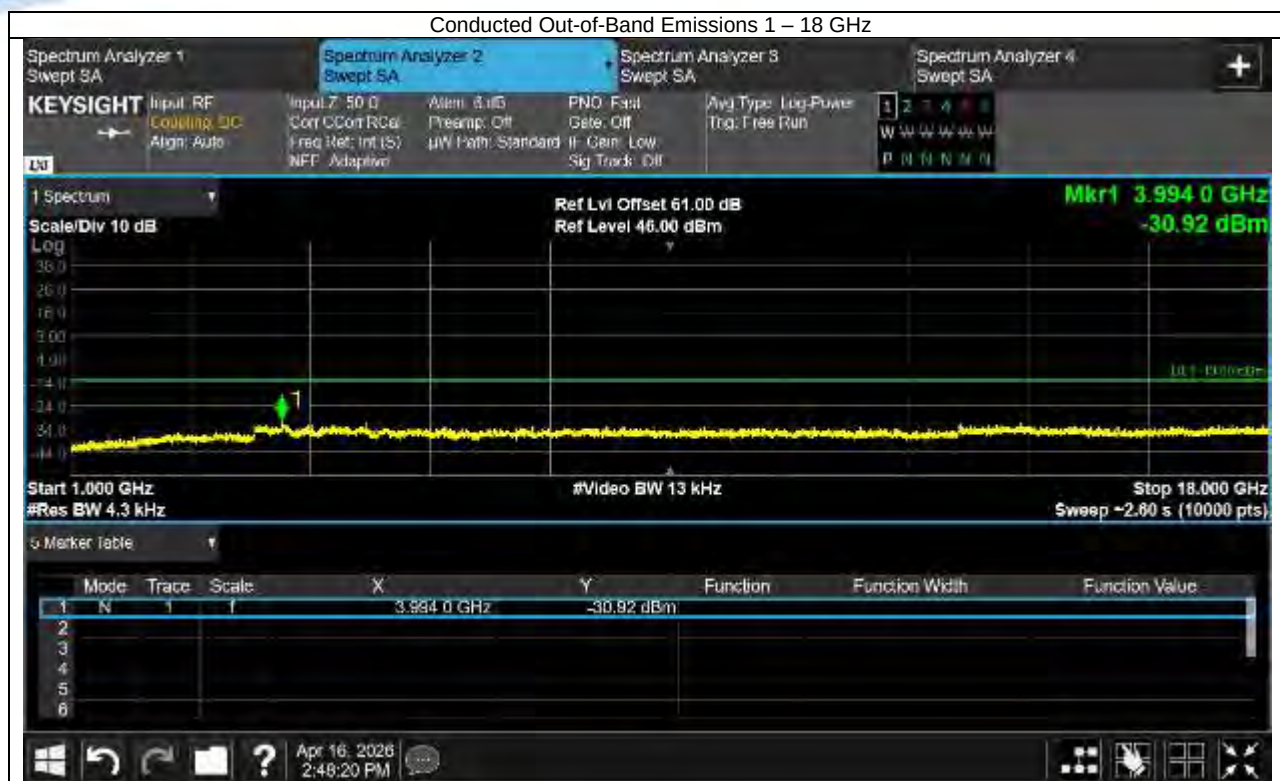
Test Measurement Results

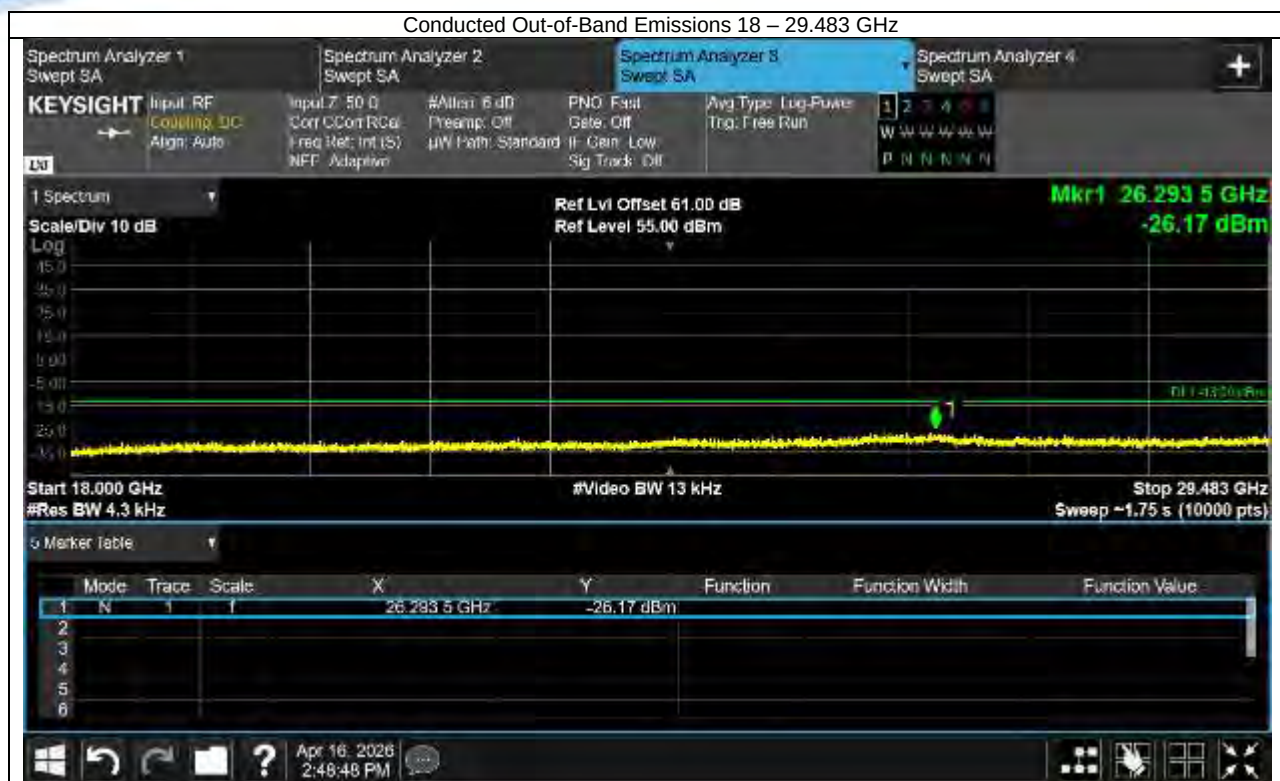
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 29500.00 MHz						
30MHz-1GHz	415.61	-39.32	--	-13.00	-26.32	Complies
1-18GHz	3994.00	-30.92	--	-13.00	-17.92	Complies
18-29.483GHz	26293.50	-26.17	--	-13.00	-13.17	Complies
29.518-40GHz	39125.70	-21.86	--	-13.00	-8.86	Complies
40-50GHz	49682.00	-50.11	--	-13.00	-37.11	Complies
50-75 GHz	65808.00	-61.32	-54.50	-13.00	-41.50	Complies
75-110GHz	87851.60	-59.74	--	-13.00	-46.74	Complies
110-140GHz	134758.55	-54.35	-41.30	-13.00	-28.30	Complies
140-150GHz	141081.05	-43.00	--	-13.00	-30.00	Complies

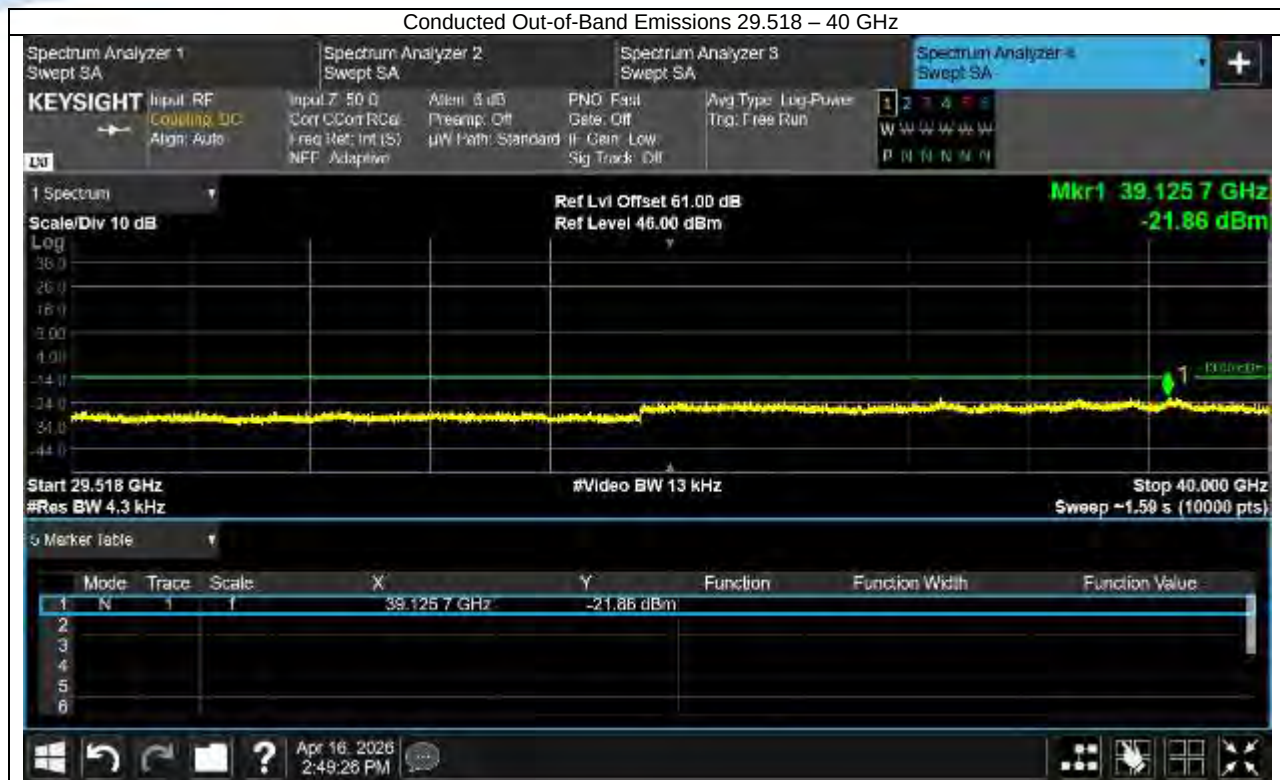
Traceability to Industry Recognized Test Methodologies

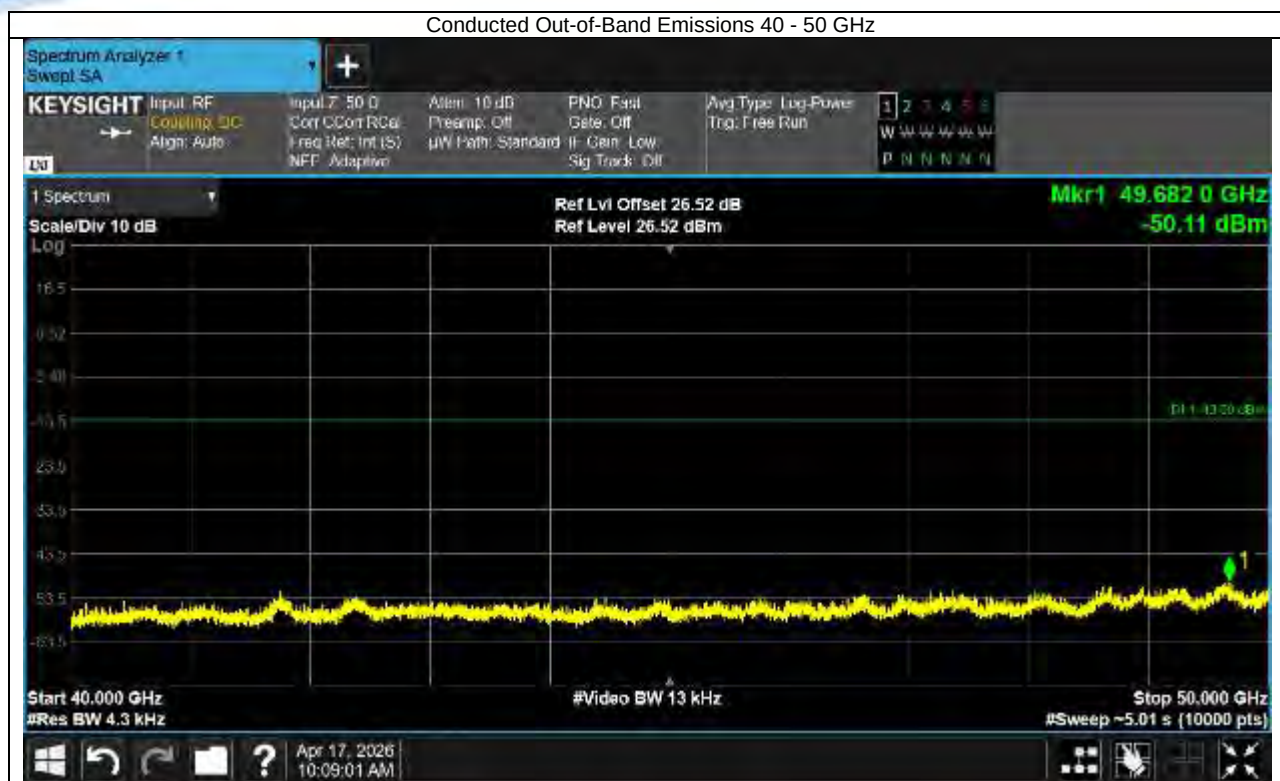
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

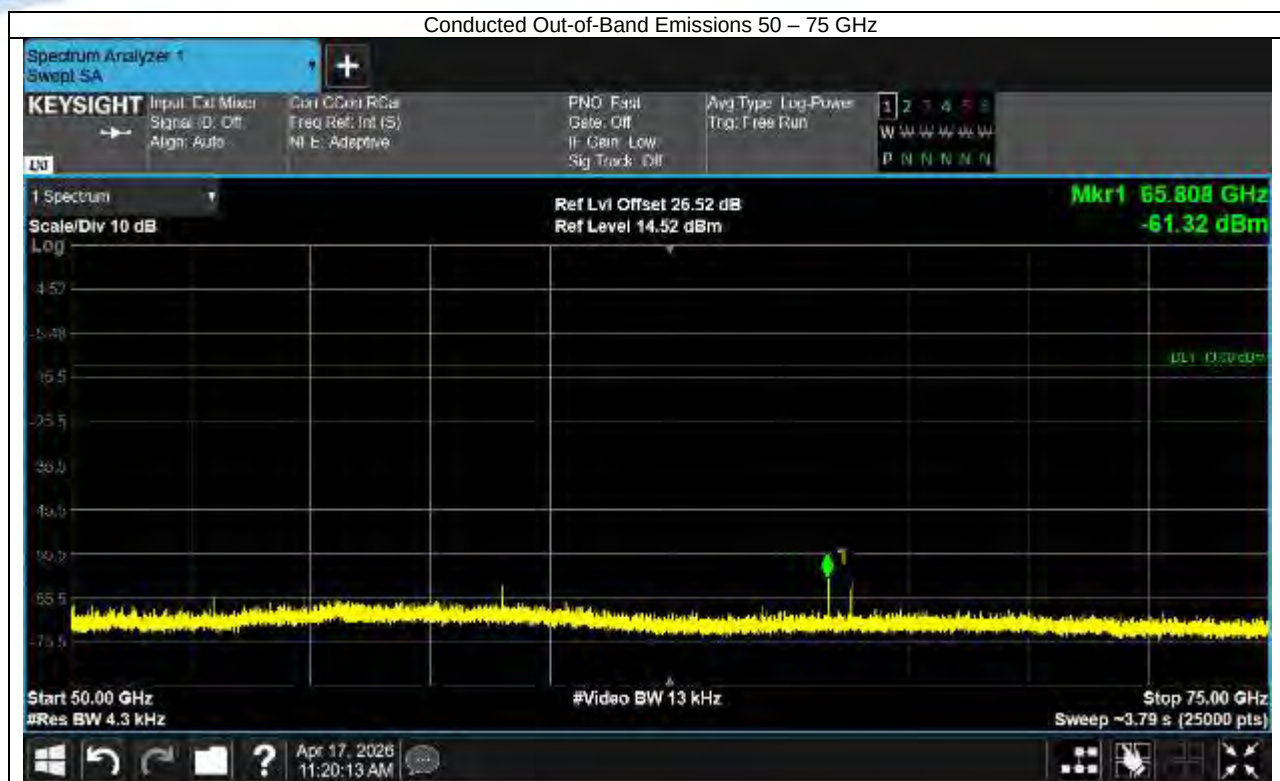


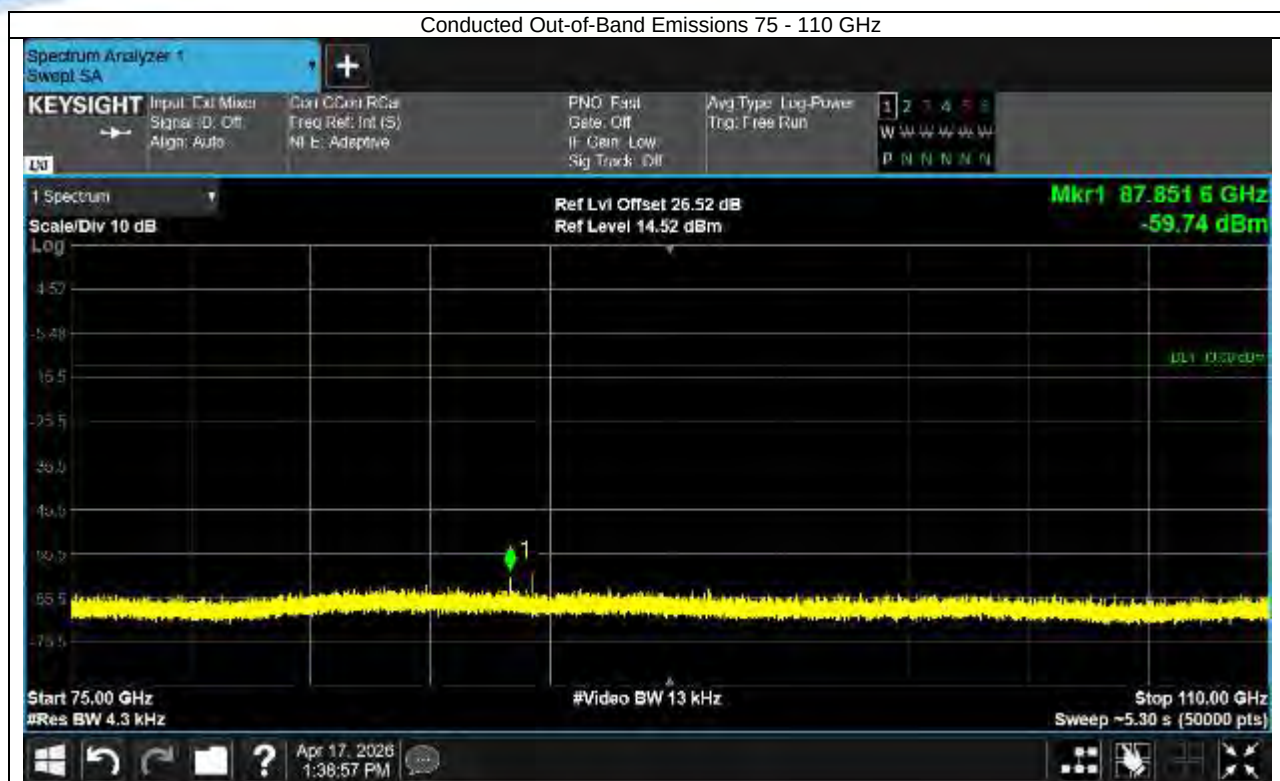




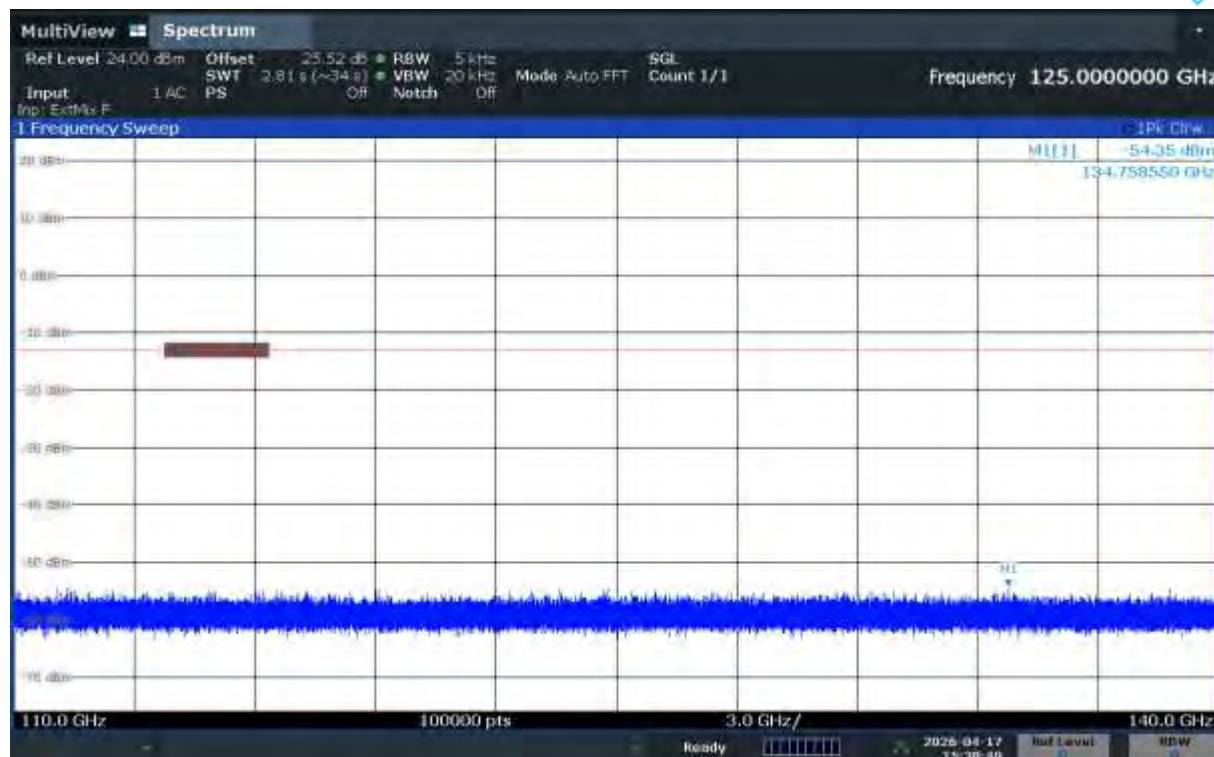






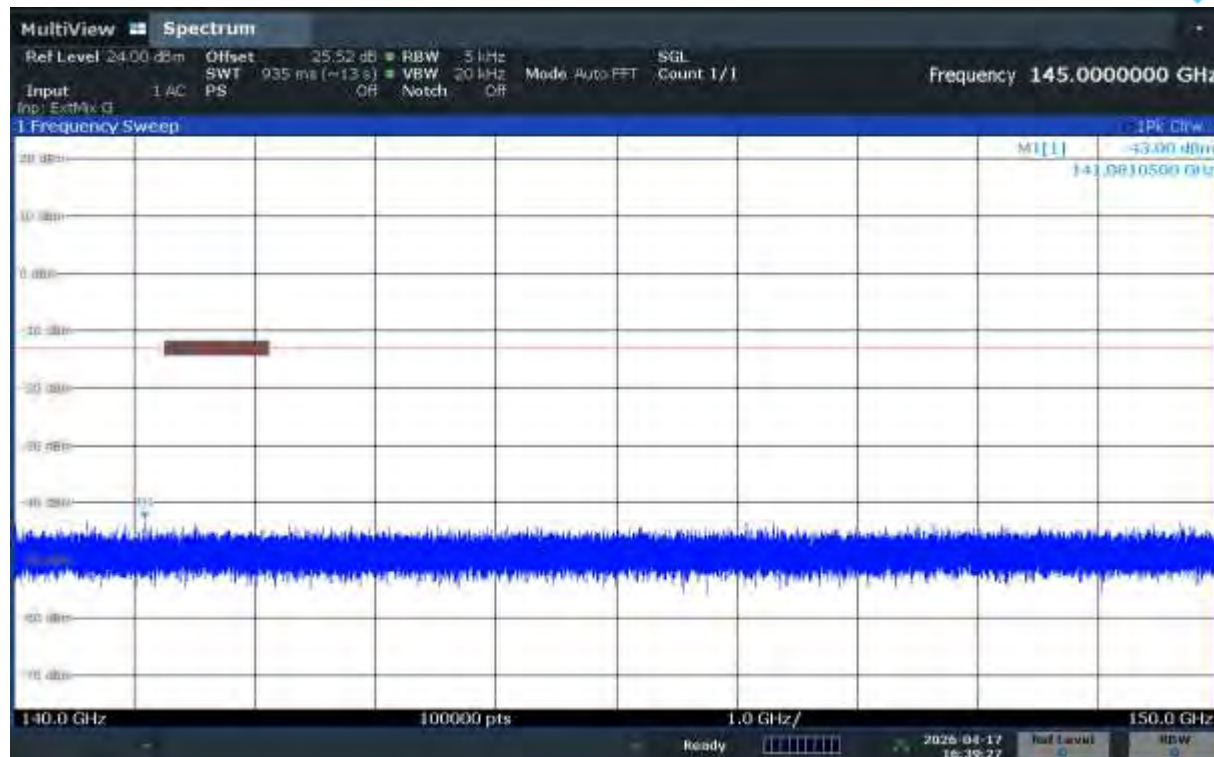


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:38:50

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:39:27

8.5.2.54. 8PSK 7MHz High Band High Channel

Equipment Configuration for Transmitter Conducted Emission (Out-of-Band)

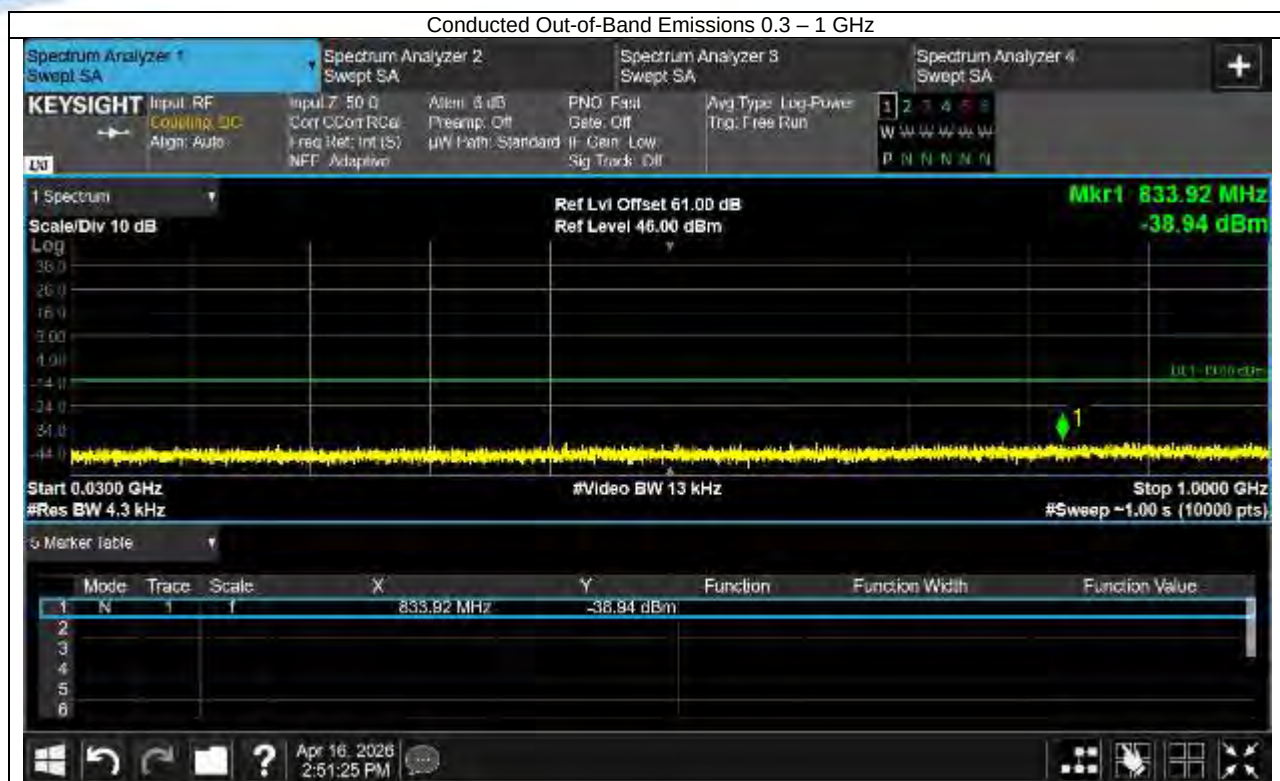
Variant:	7 MHz	Duty Cycle (%):	100
Modulation:	8PSK	Tested By:	SB
Engineering Test Notes:			

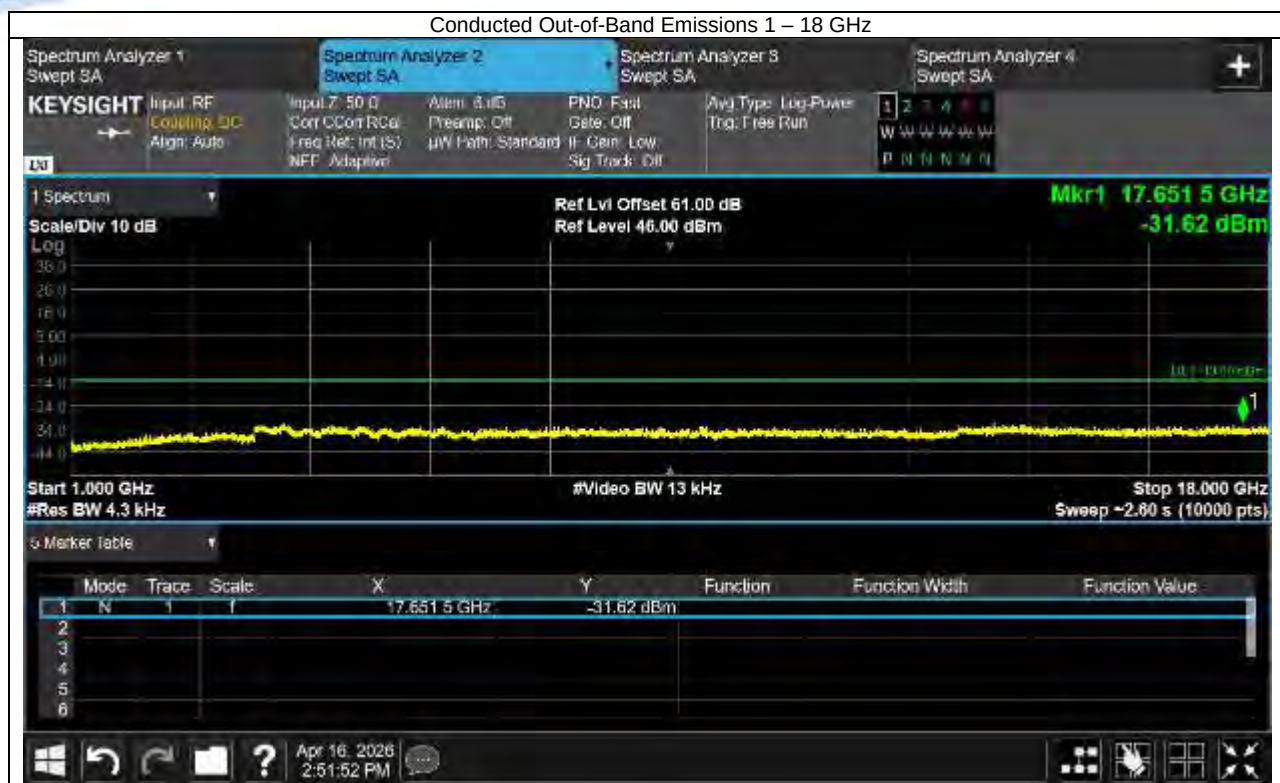
Test Measurement Results

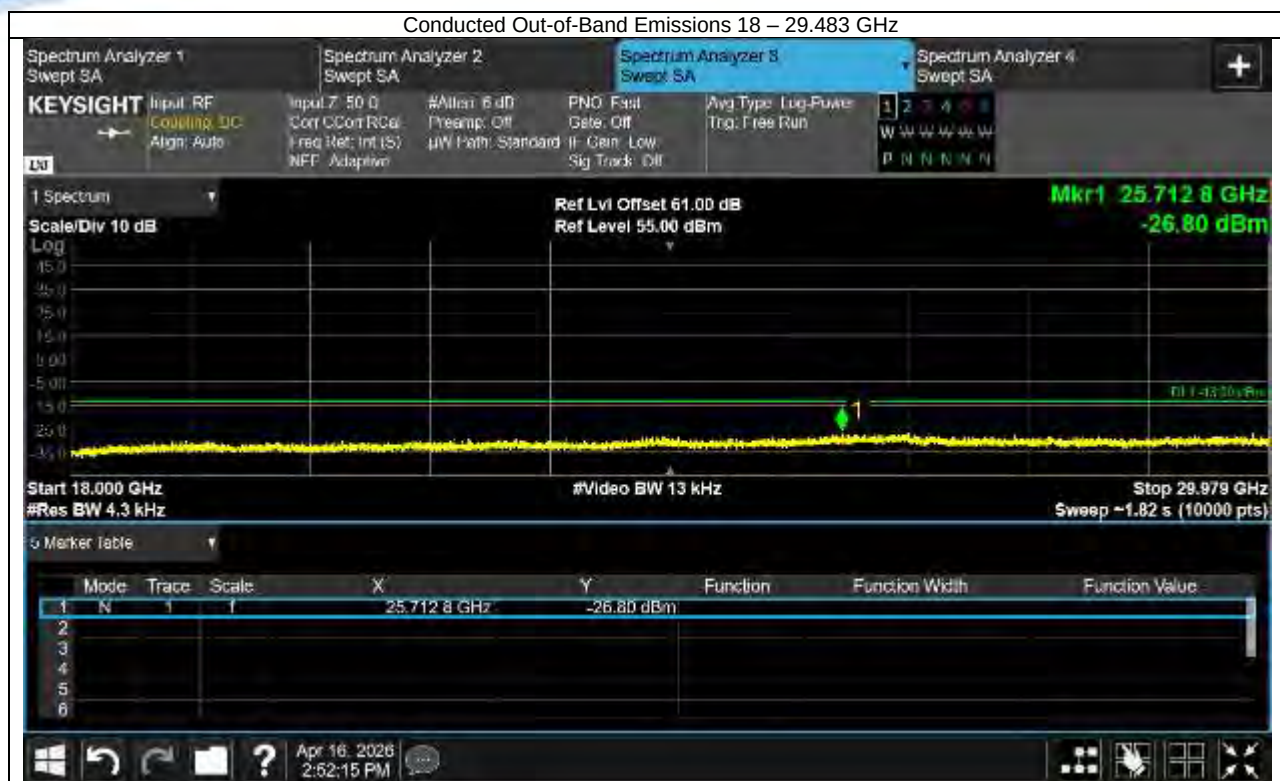
Temperature: 20 °C Voltage: 115 Vac, 60 Hz	Frequency (MHz)	Emission Level (dBm)	Corrected Level (dBm)	Limit (dBm)	Margin (dB)	Compliant
Test Frequency: 29996.475 MHz						
30MHz-1GHz	833.92	-38.94	--	-13.00	-25.94	Complies
1-18GHz	17651.50	-31.62	--	-13.00	-18.62	Complies
18-29.979GHz	25712.80	-26.80	--	-13.00	-13.80	Complies
30.014-40GHz	39211.00	-21.74	--	-13.00	-8.74	Complies
40-50GHz	49593.00	-50.39	--	-13.00	-37.39	Complies
50-75 GHz	67412.00	-55.71	-48.68	-13.00	-35.68	Complies
75-110GHz	89345.40	-54.74	--	-13.00	-41.74	Complies
110-140GHz	118170.35	-54.11	-42.20	-13.00	-29.20	Complies
140-150GHz	148972.05	-43.14	--	-13.00	-30.14	Complies

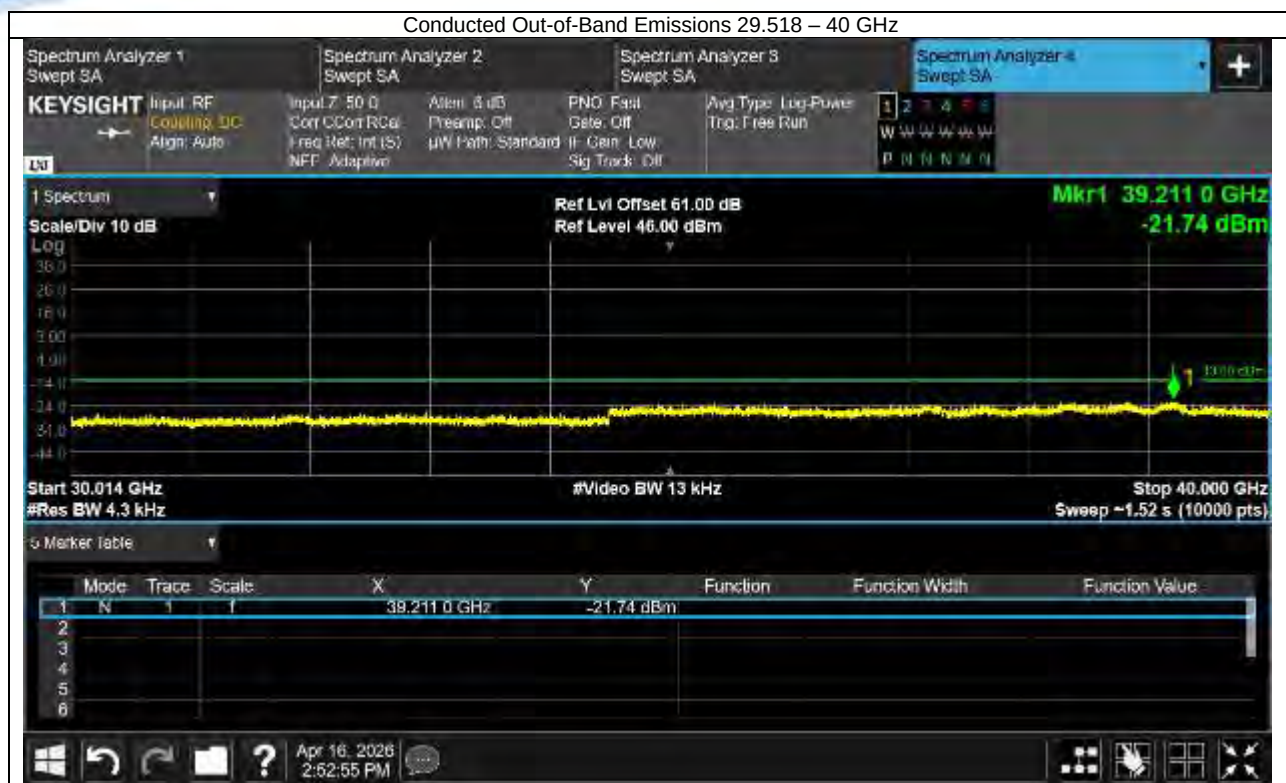
Traceability to Industry Recognized Test Methodologies

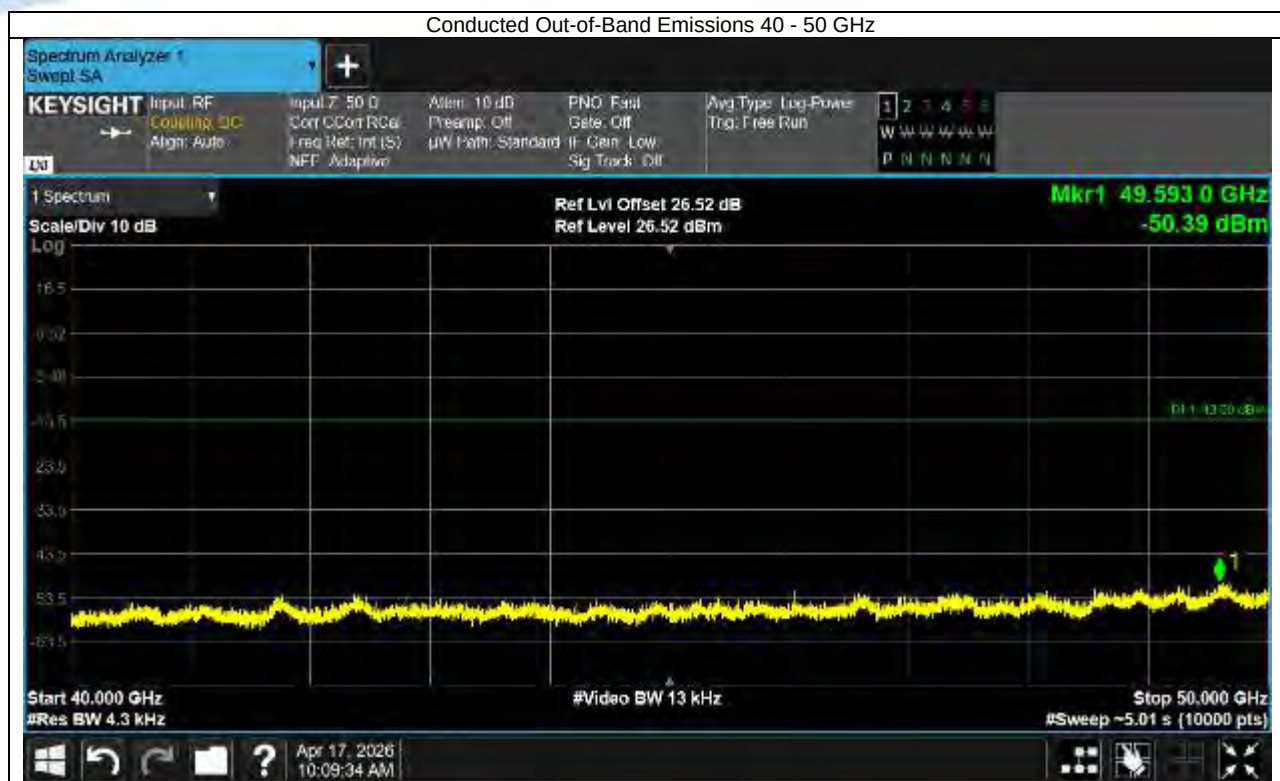
Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

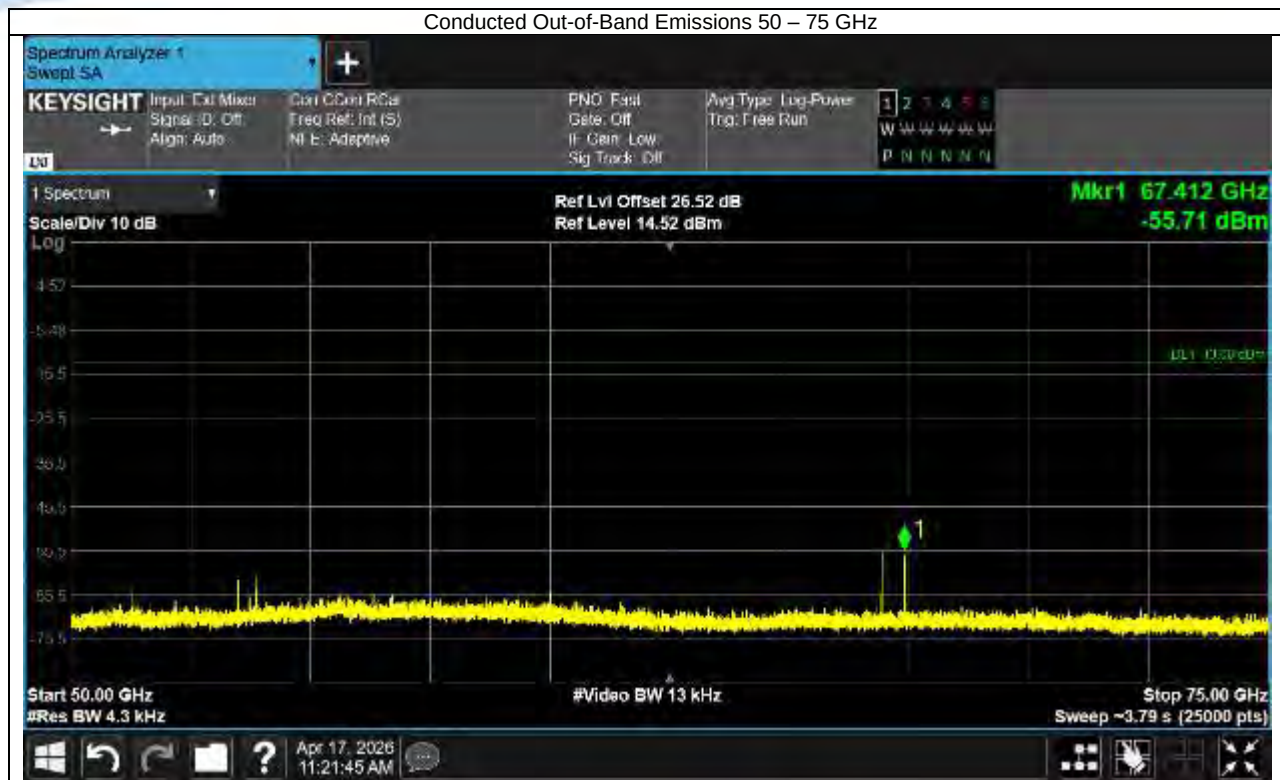






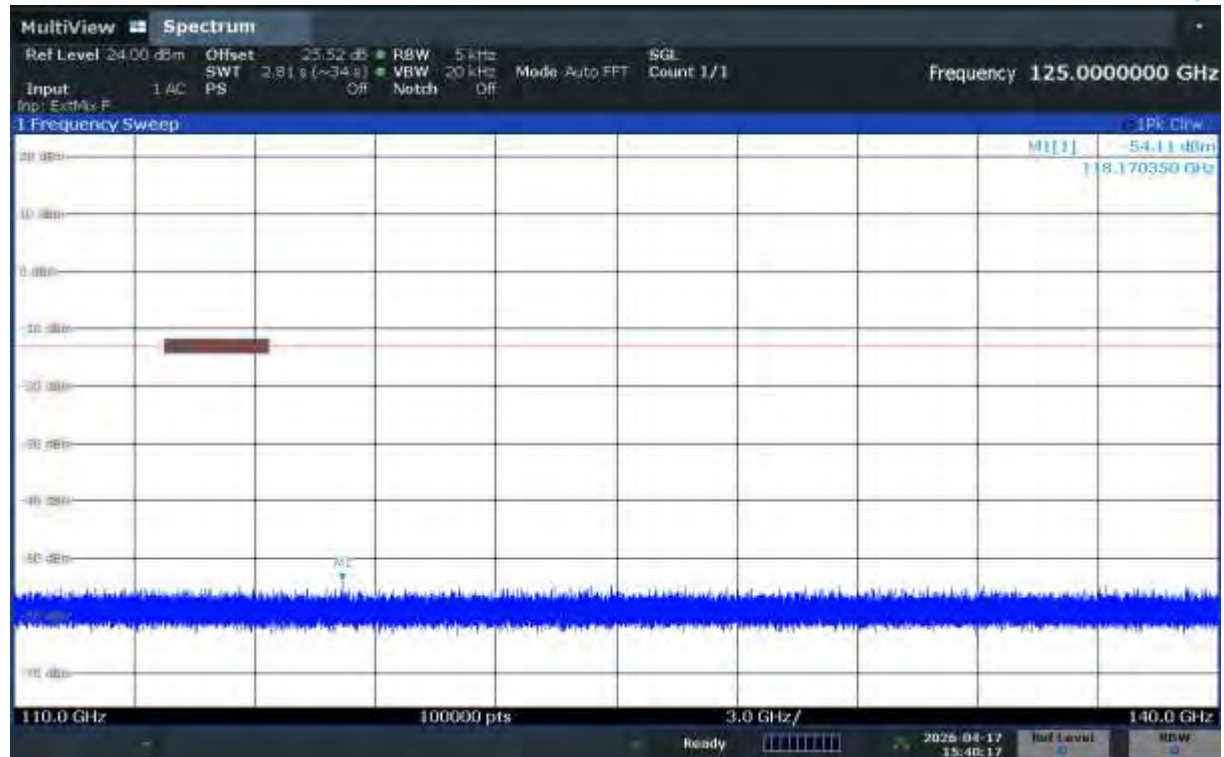






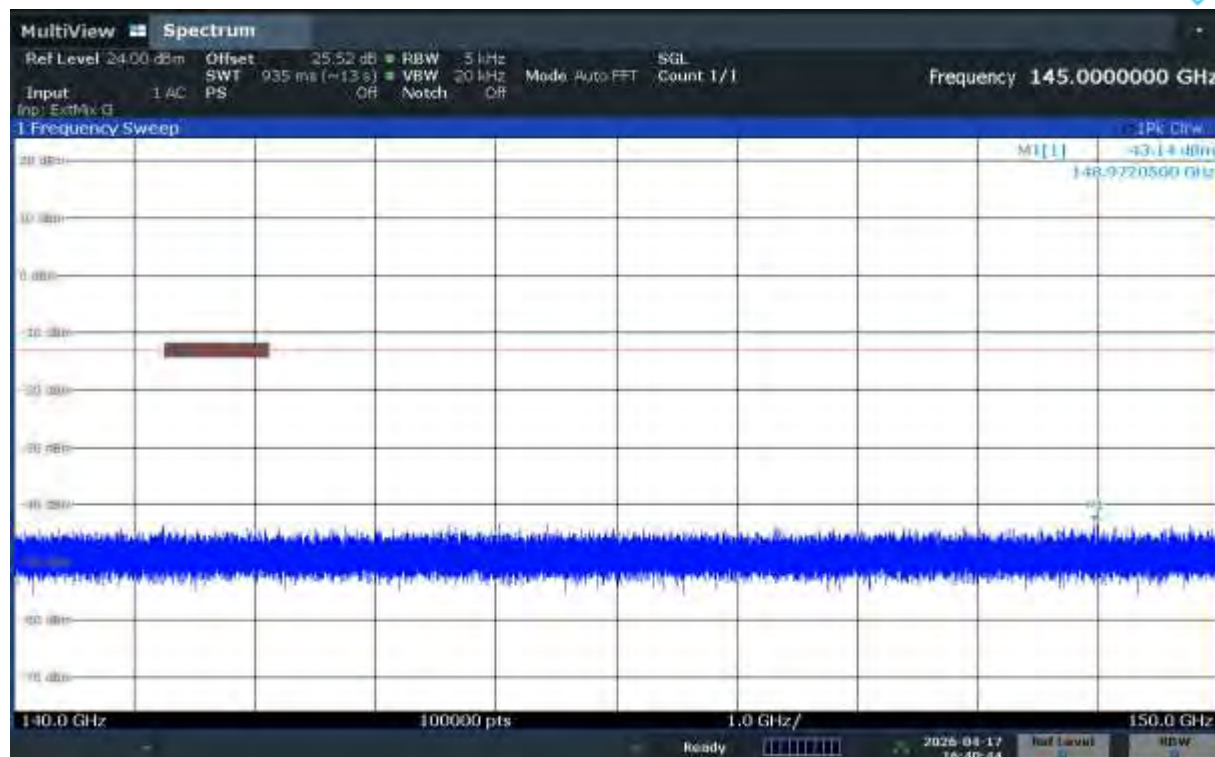


Conducted Out-of-Band Emissions 110 – 140 GHz



Date: 17.APR.2026 15:40:17

Conducted Out-of-Band Emissions 140 - 150 GHz



Date: 17.APR.2026 16:40:44

9. PHOTOGRAPHS

9.1. Conducted RF



9.2. Spurious Emissions 3M Distance

40GHz – 50GHz



50-75GHz



75-90GHz



90-140GHz



140-150GHz



9.3. Provided Horn Antenna for Testing



APPENDIX A – DECLARATION OF SIMILARITY



Declaration of Similarity

Company:	RAVE Aerospace GmbH (former Safran Passenger Innovations Germany GmbH)
Address:	Friedrichshafener Str. 410, 82205 Gilching, Germany
Product Name:	Ka-Band Radio Frequency Unit (KRFU), Fanless & Fanned
Part Number(s):	00-5529-01 "Fanless" & 00-5530-01 "Fanned"
Product Description:	Ka-Band Radio Frequency Unit (KRFU) is a Line Replaceable Unit (LRU). The KRFU includes a high-efficiency solid state power amplifier. The received intermediate frequency IF input is up-converted and transmitted as a Ka-Band output suitable for transmission to the satellite.

We, RAVE Aerospace, hereby declare that the following product variants:

- Ka-Band Radio Frequency Unit (KRFU) "Fanless", Part Number 00-5529-01, and
 - Ka-Band Radio Frequency Unit (KRFU) "Fanned", Part Number 00-5530-01
- are electrically identical in all aspects relevant to their design, performance, and regulatory compliance.

Both variants incorporate the same electronic circuitry, components, PCB layout, and electrical characteristics. The difference between the two models does not affect the electrical performance or overall functional behavior of the device.

The sole difference between the models is related to the cooling method:

- The KRFU "Fanless" model utilizes forced-air cooling via a spud inlet.
- The KRFU "Fanned" model utilizes stand alone cooling via an integrated fan assembly.

Accordingly, any testing performed on the KRFU "Fanned" model is considered representative of the KRFU "Fanless" variant with respect to electrical performance and compliance.

This declaration is issued to support test documentation and regulatory compliance reporting.

Signature:  Date: **21.04.2025**

Name: **Gengizhan KARBAY**

Title: **Technical Product Manager**

Company: **RAVE Aerospace GmbH**

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