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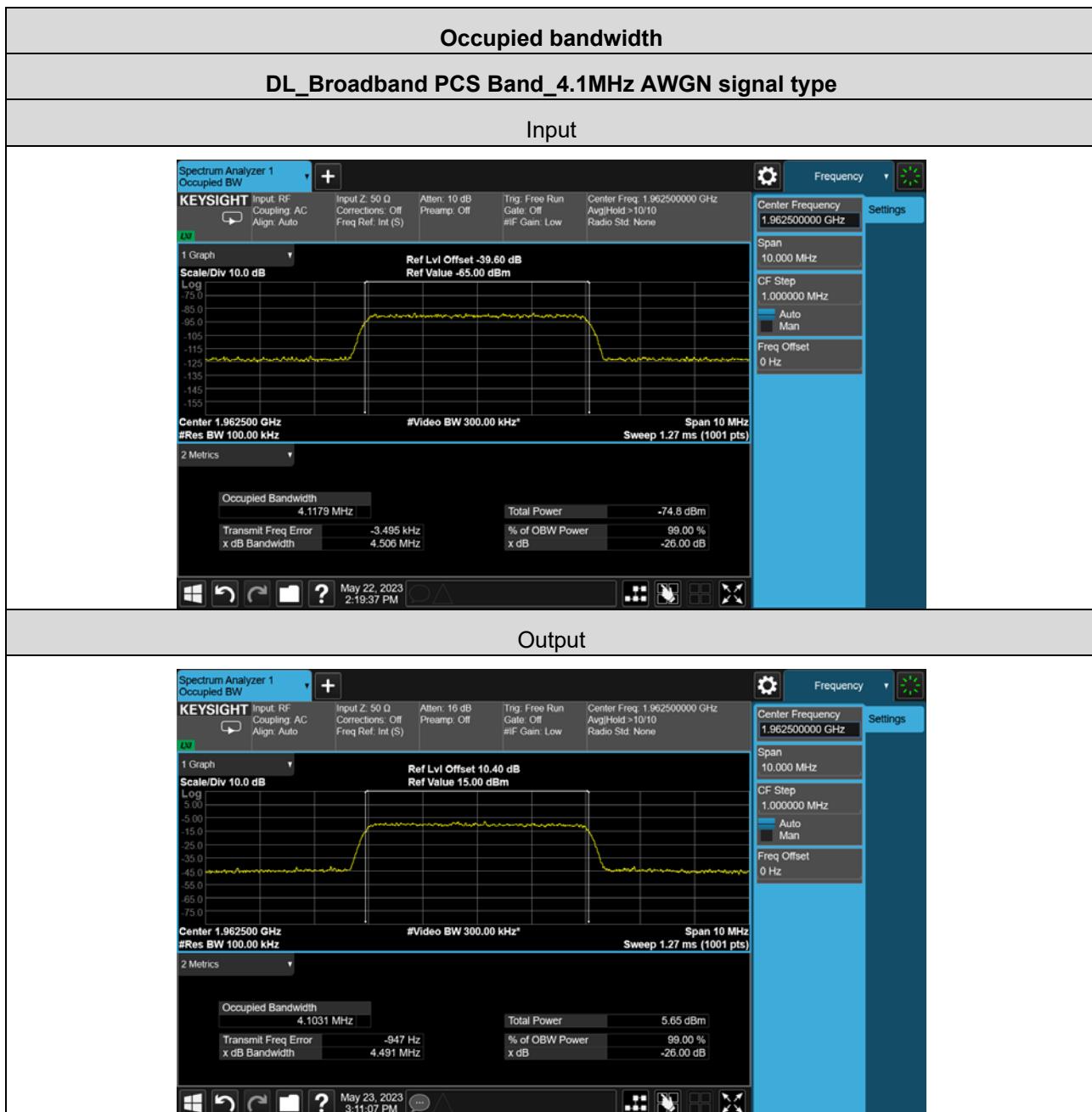
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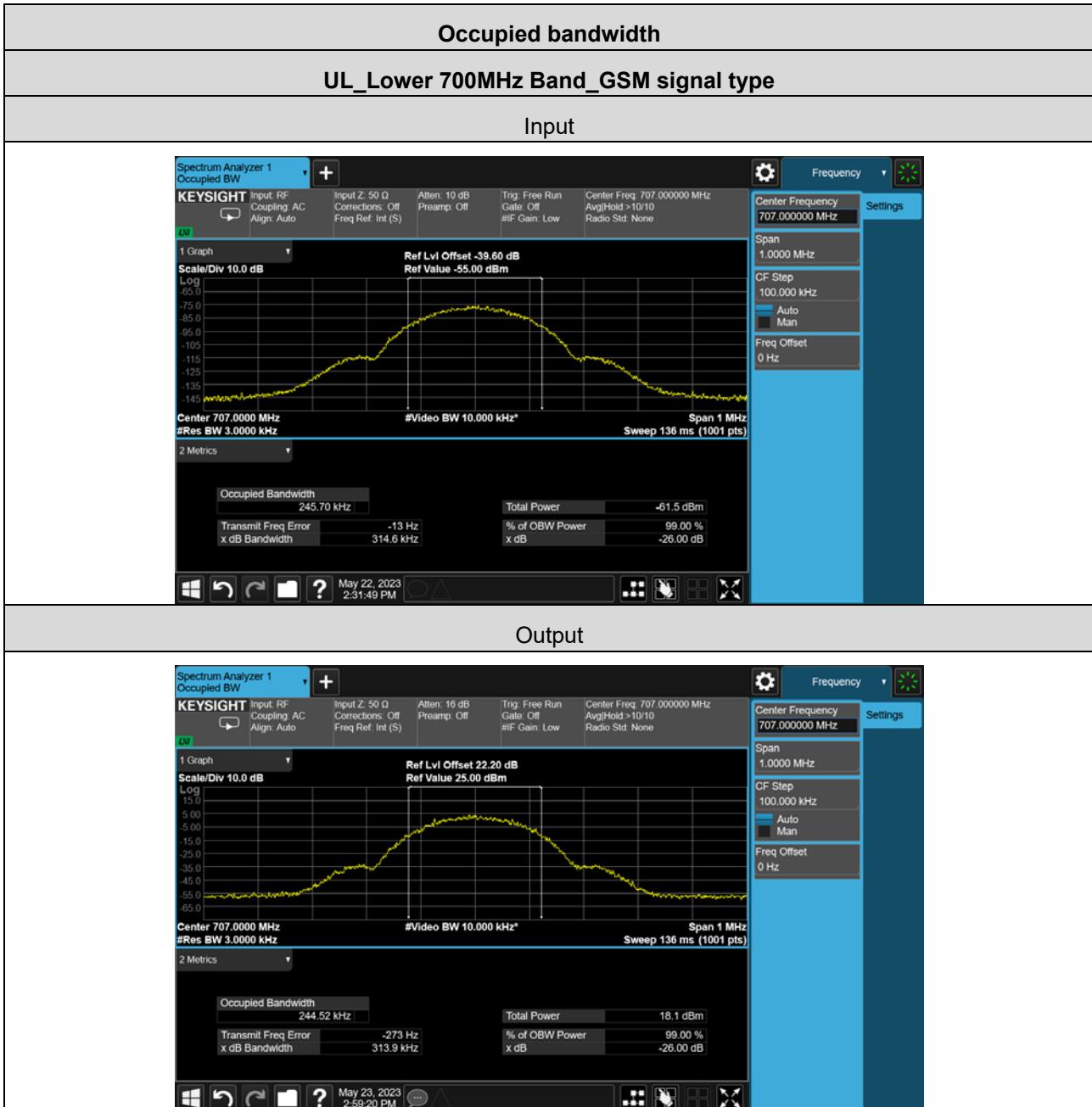




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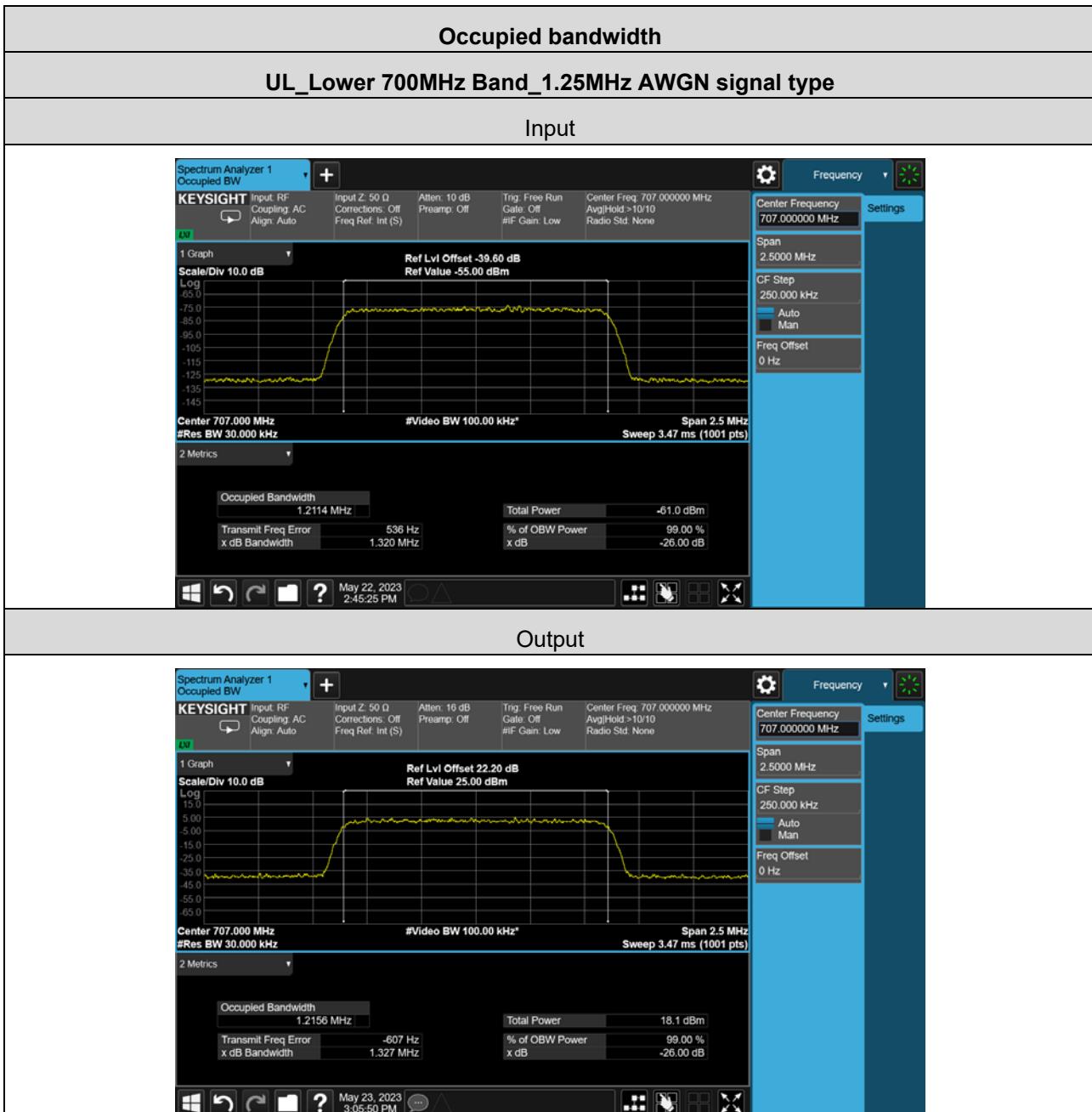
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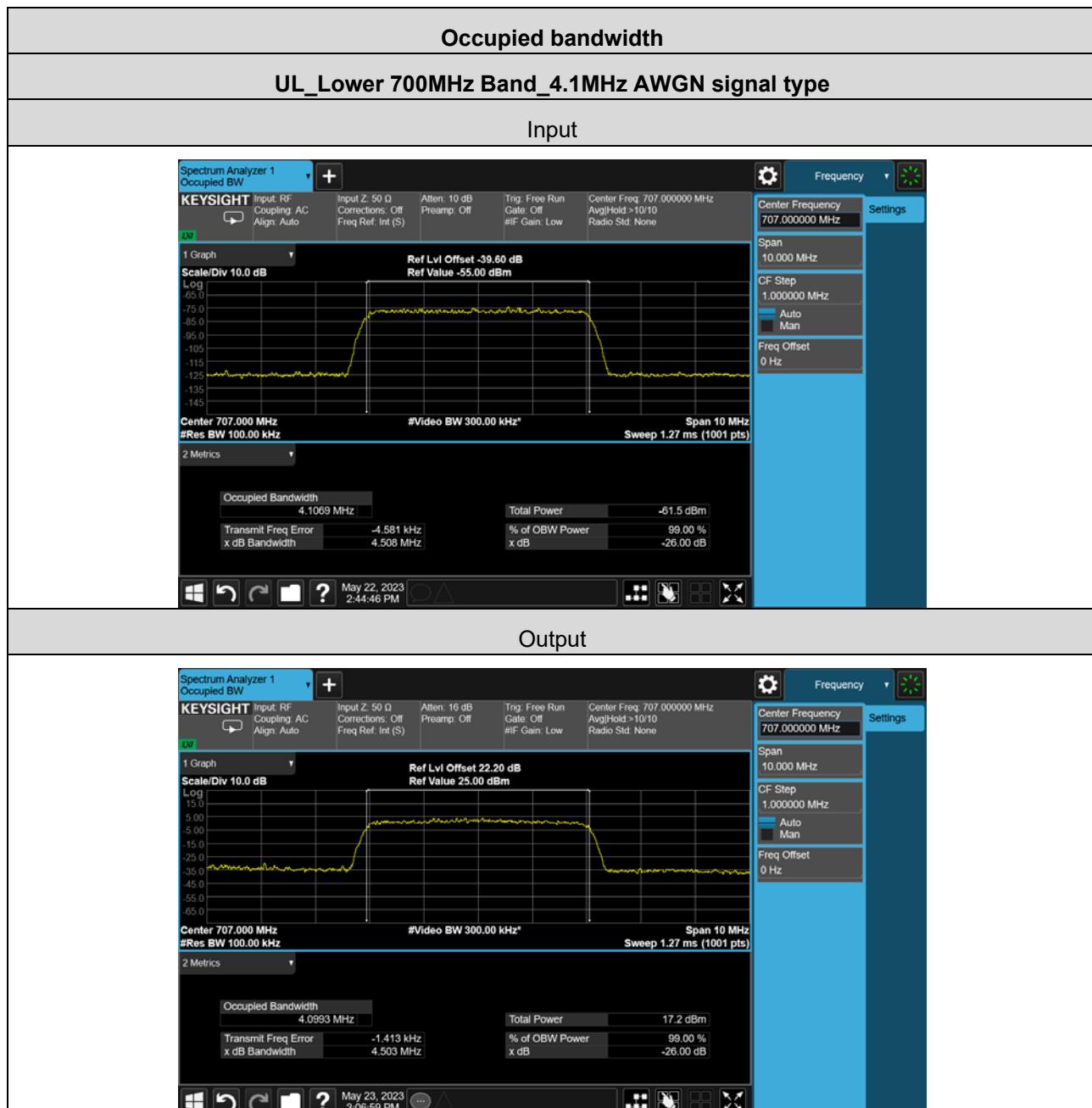


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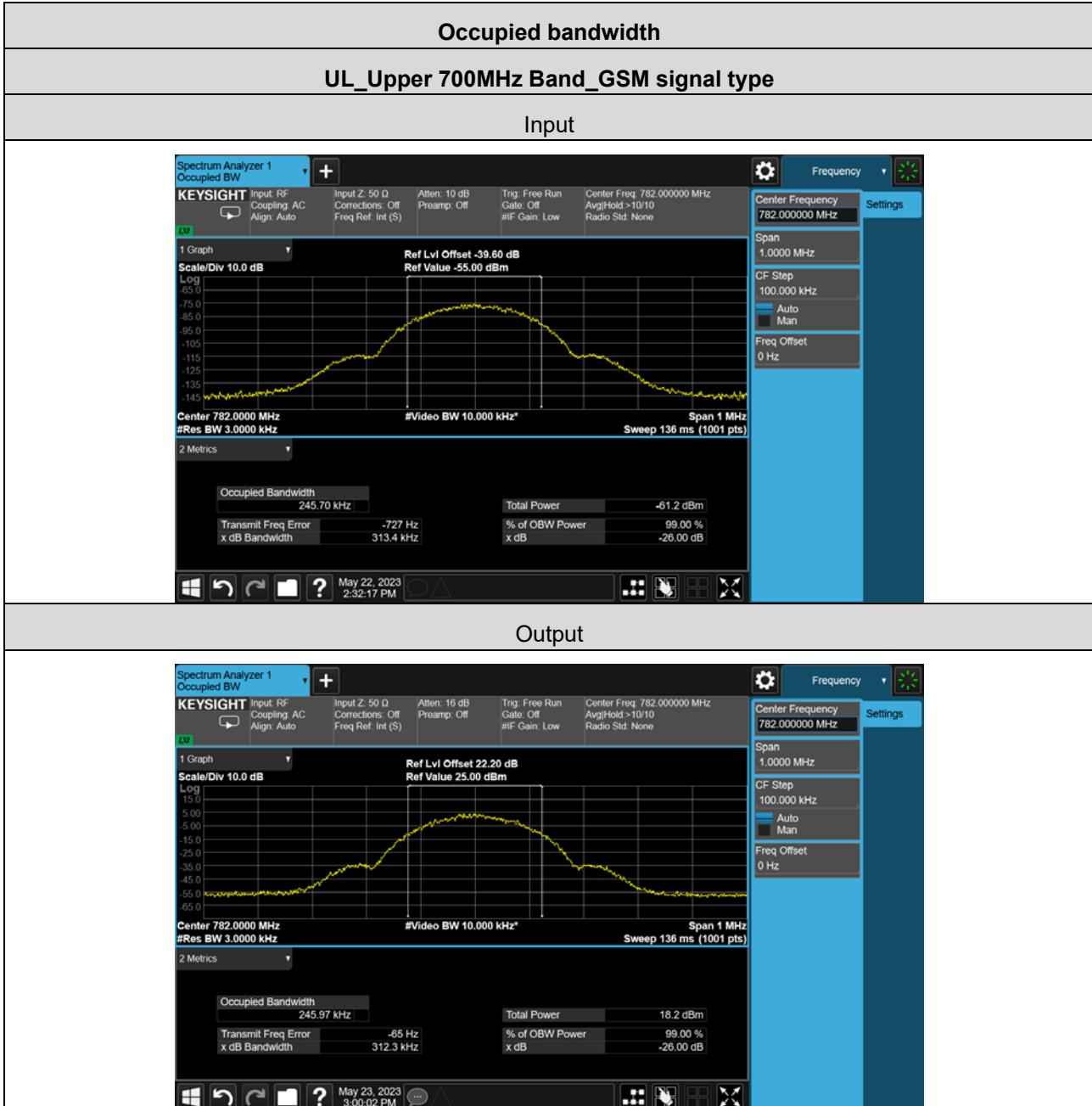
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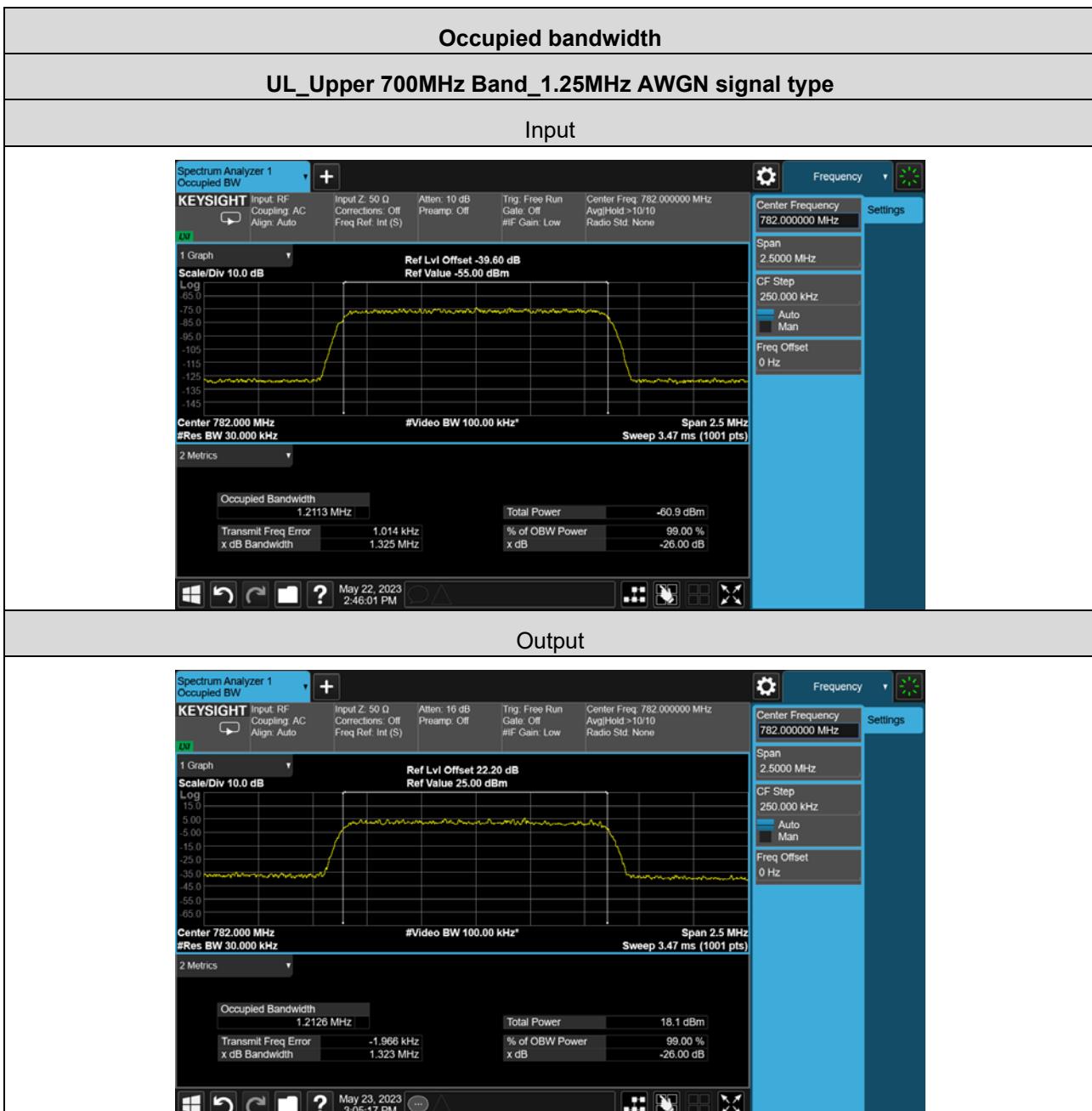
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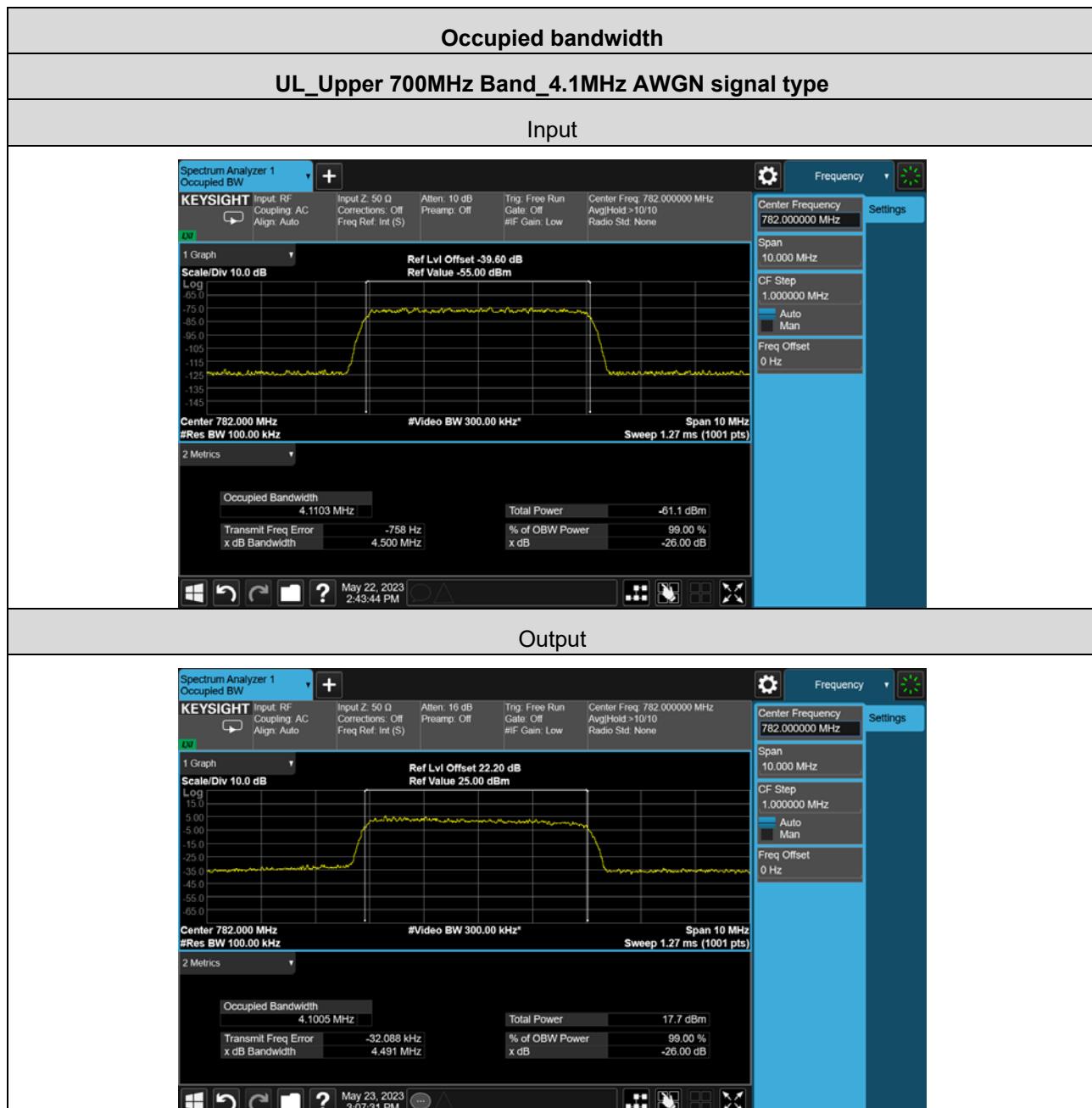
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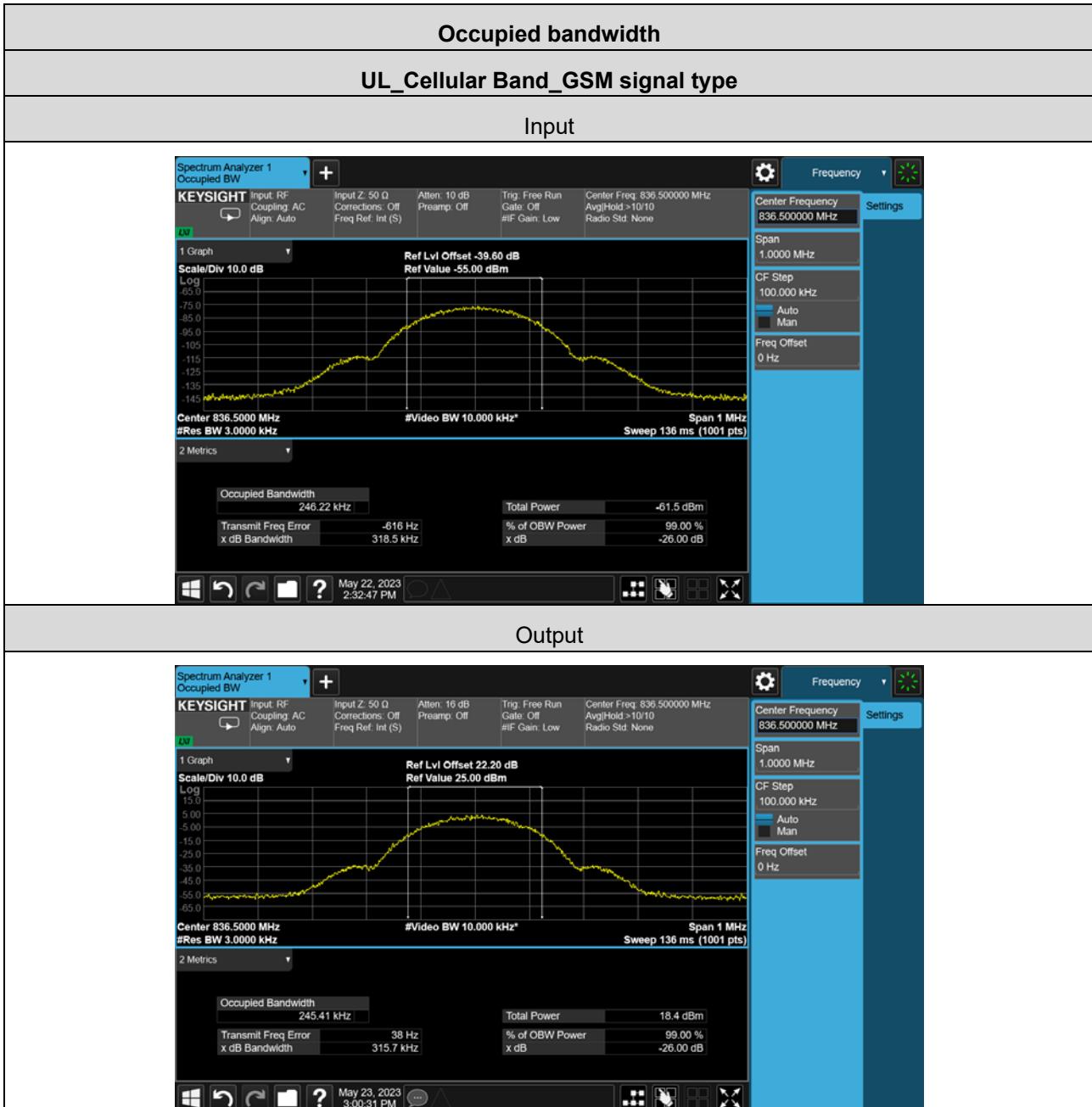




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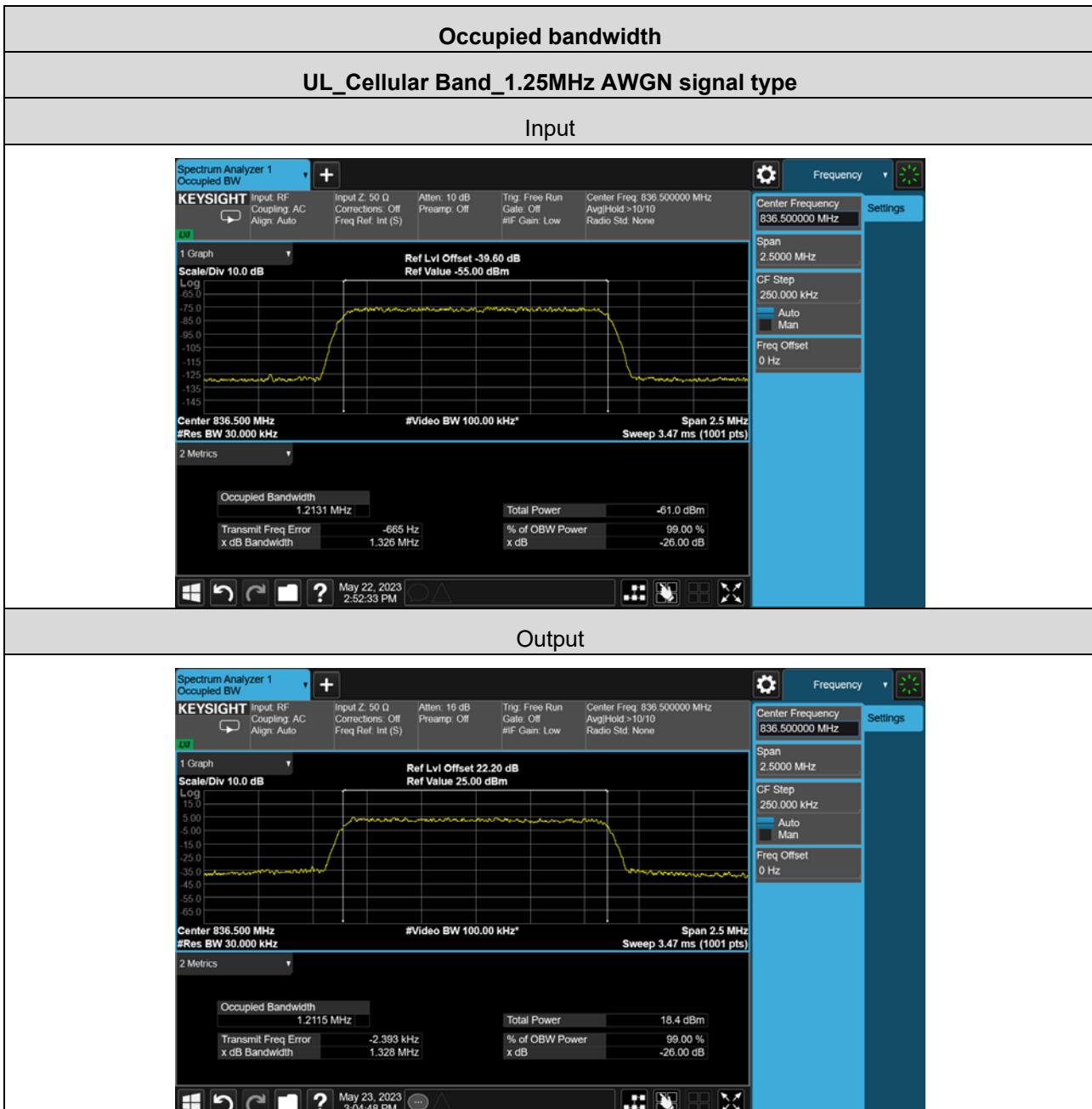
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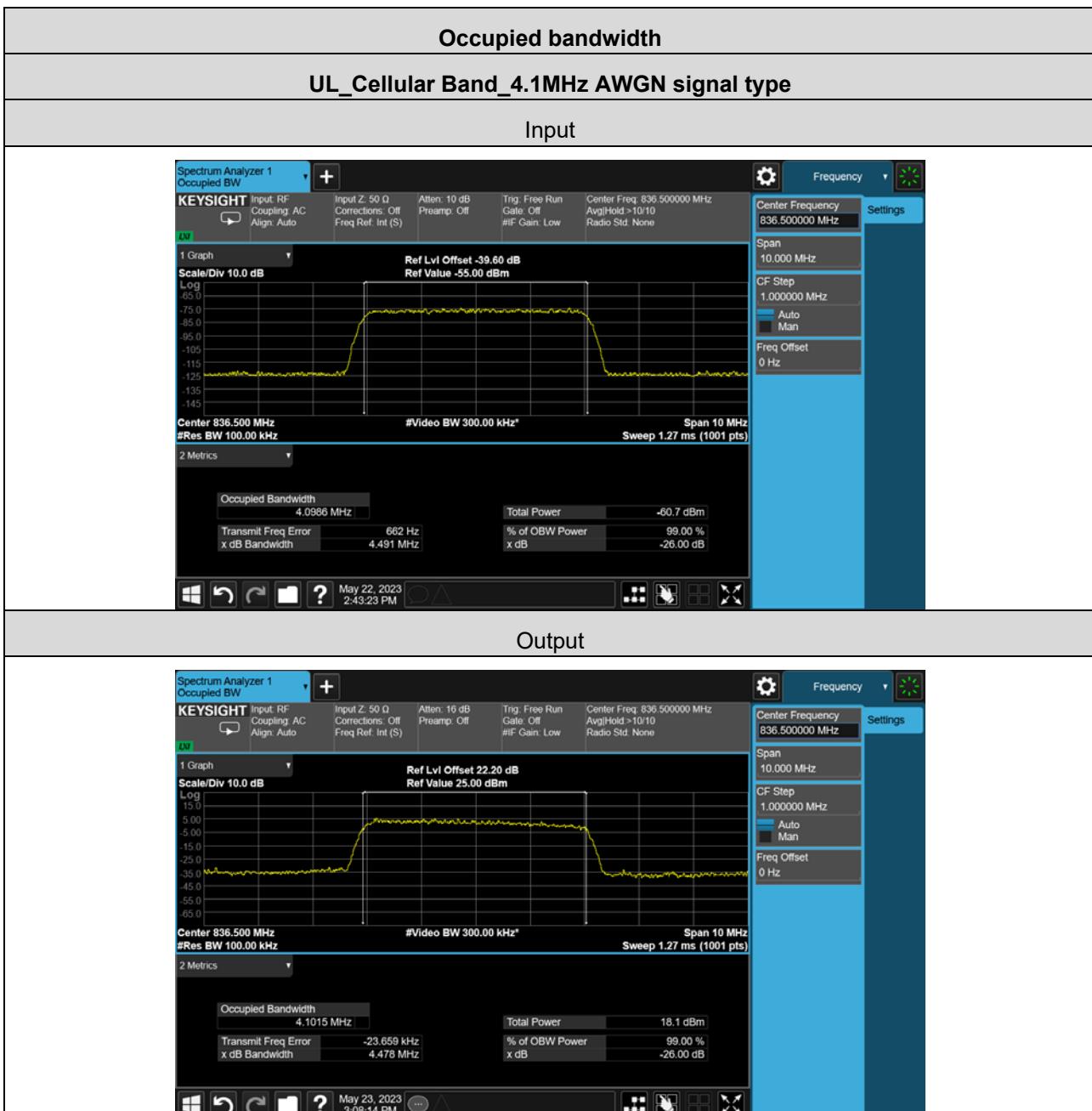


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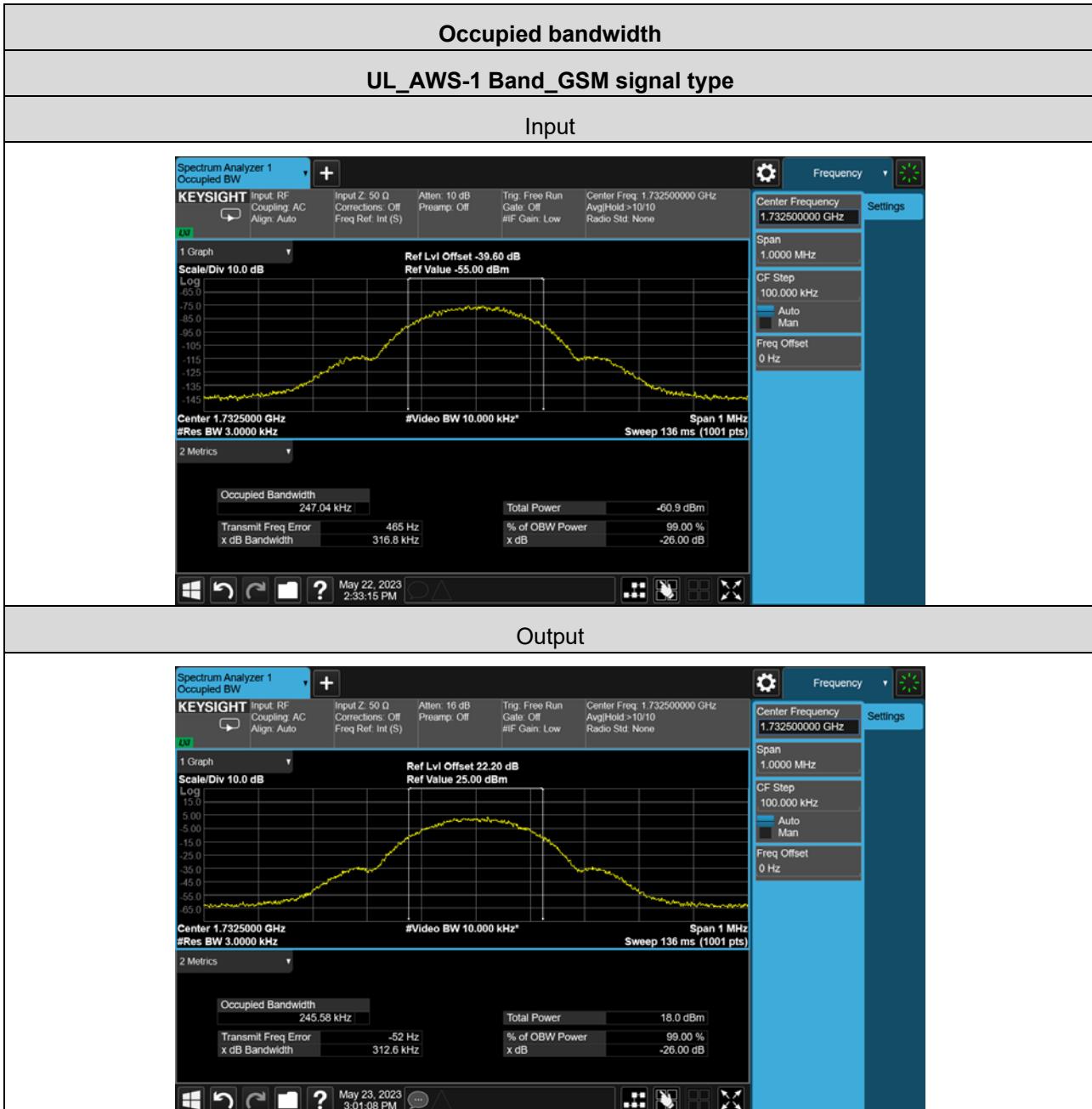
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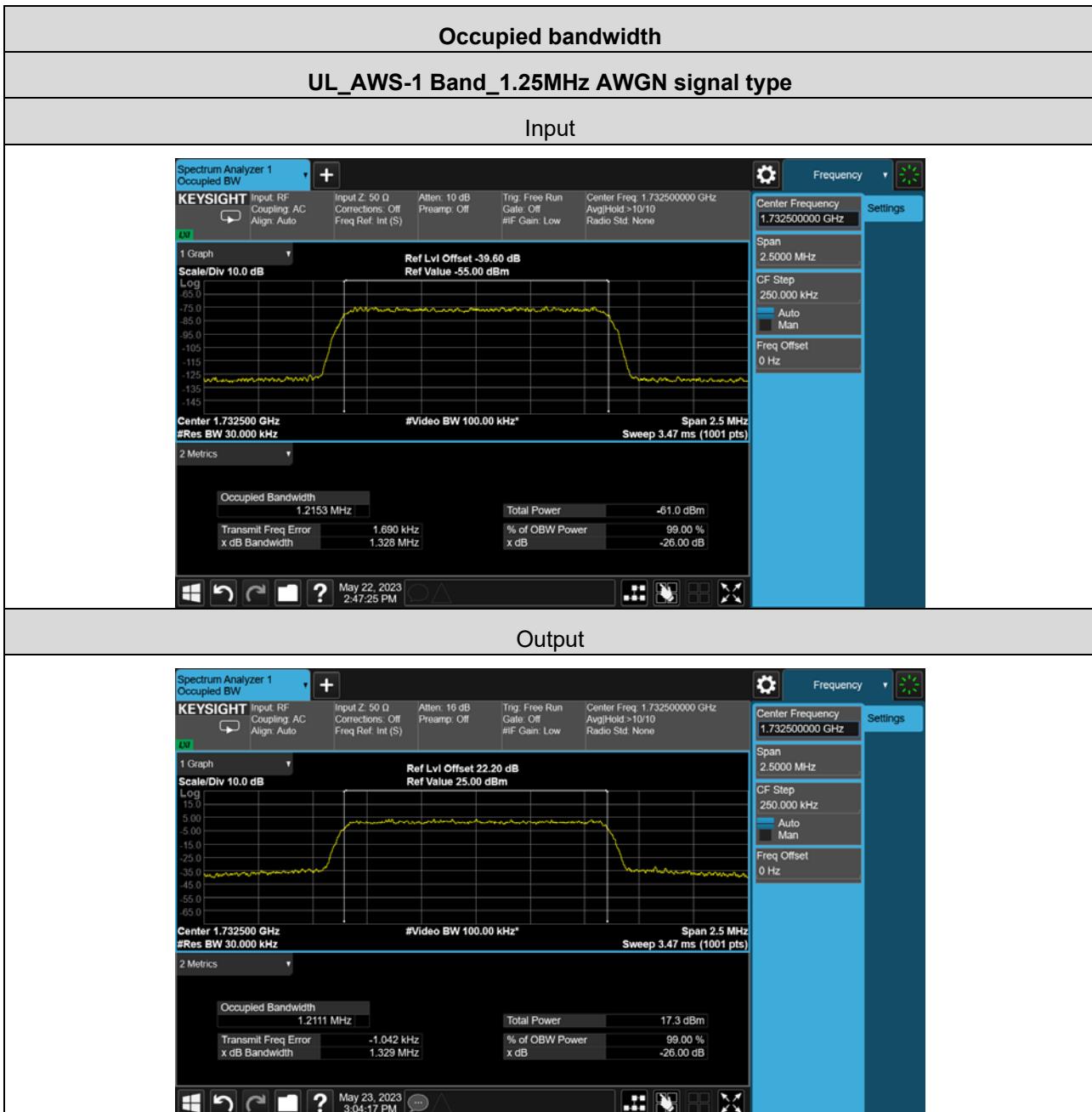
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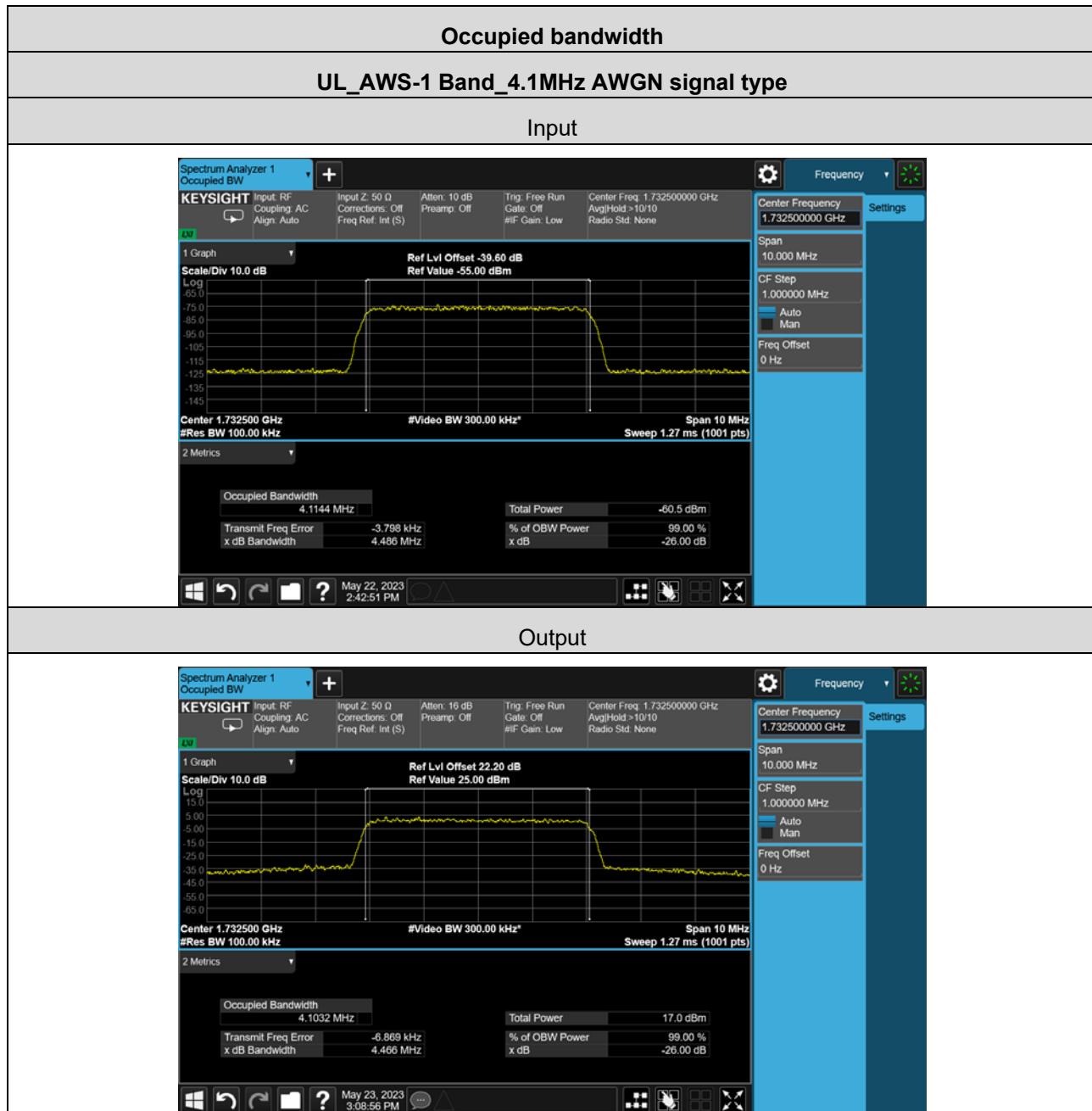
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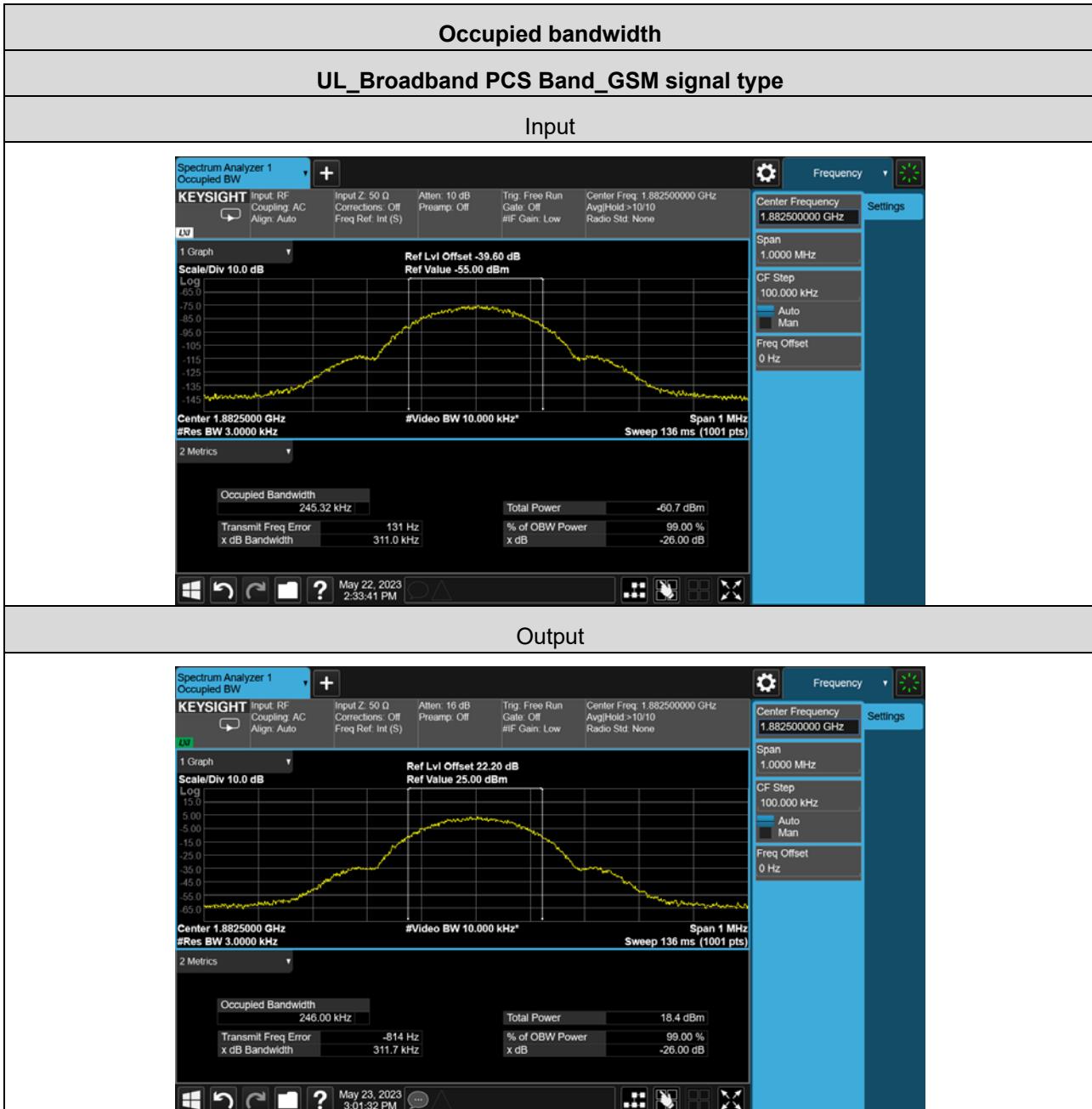




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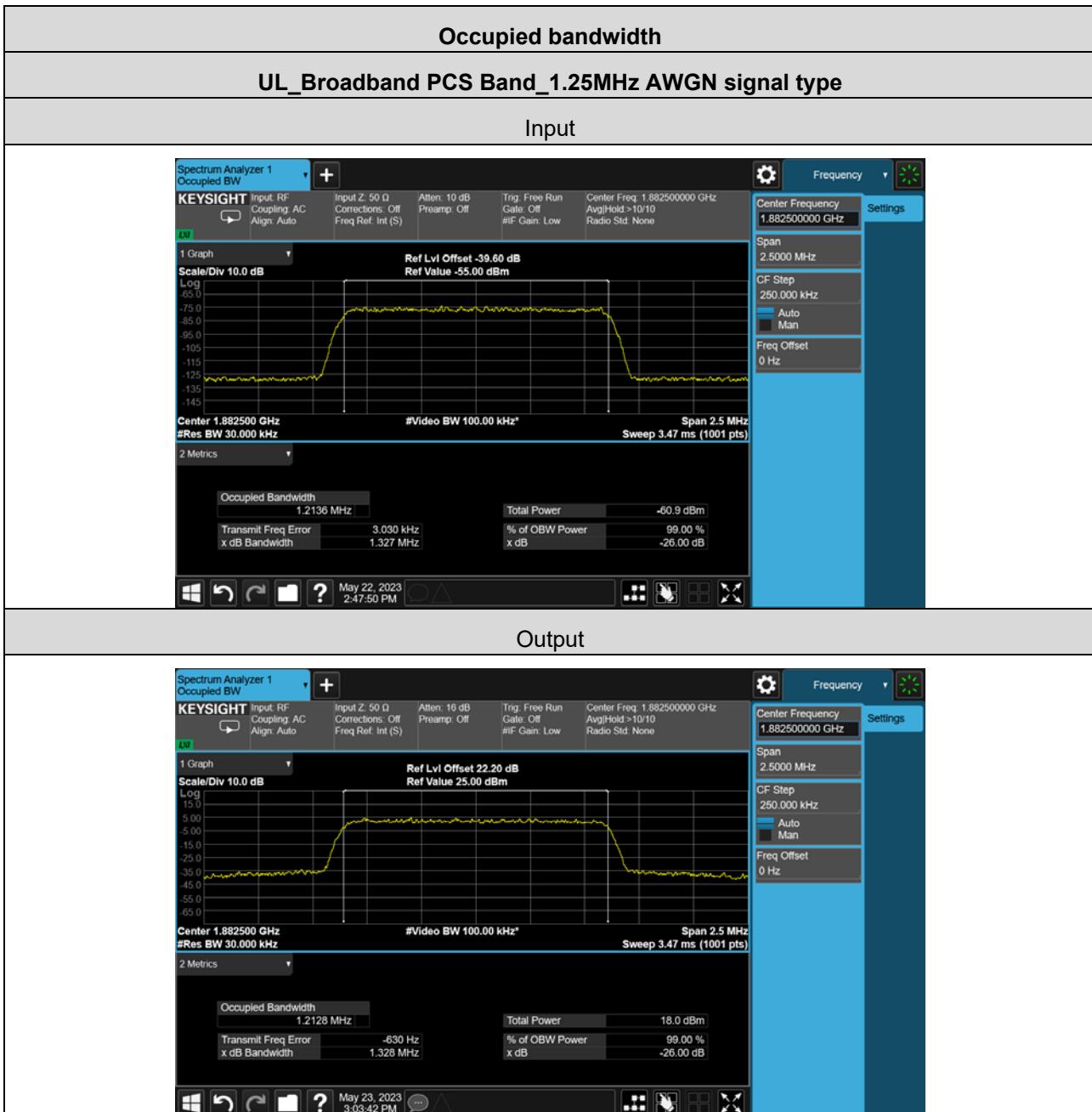
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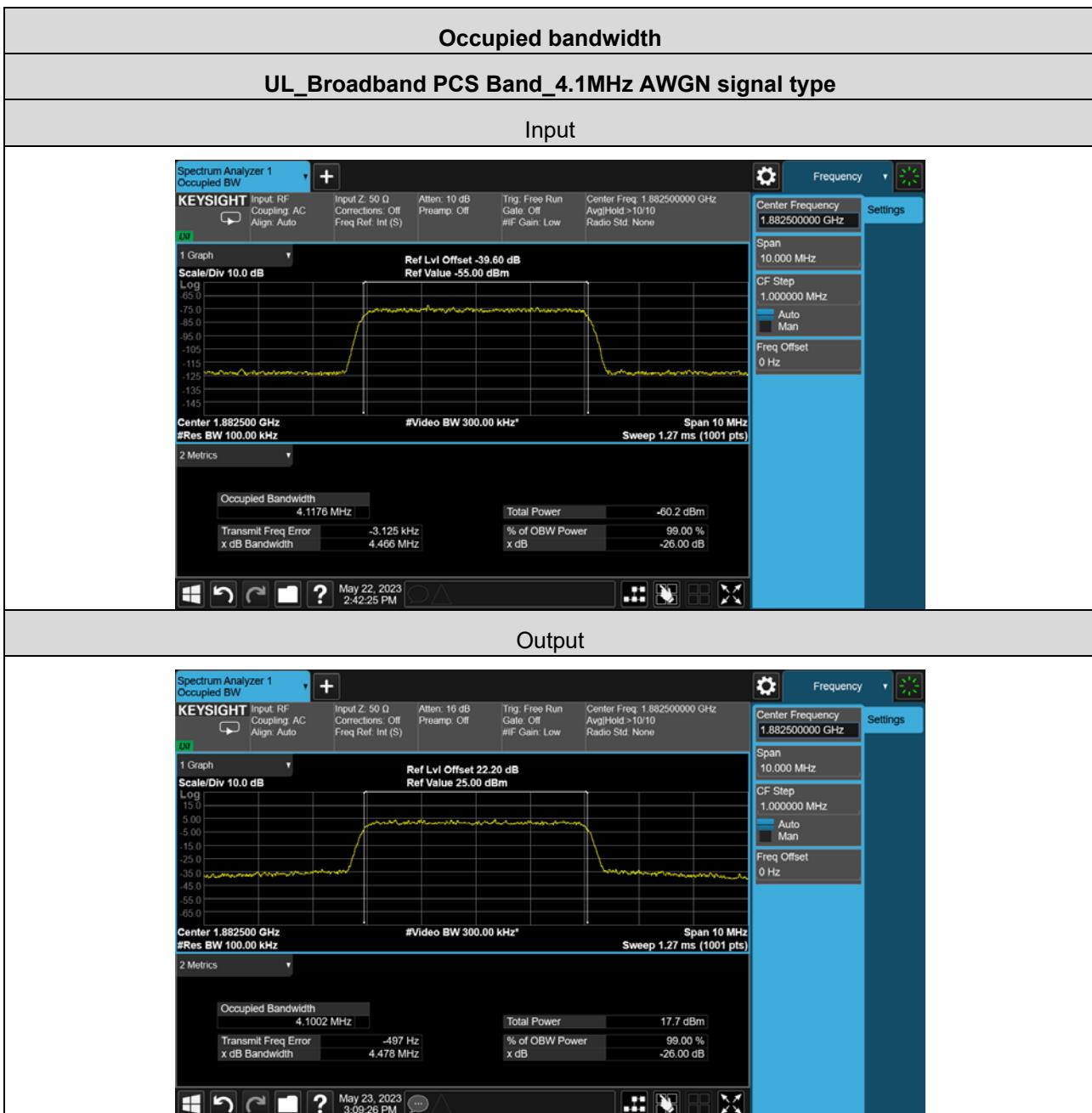
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12 Oscillation detection

12.1 Oscillation detection

Oscillation Detection									
Path	Band	Mitigation Time (s)	Limit (s)	Oscillation Level (dBm)	Number of Restart	Limit	Restart time (s)	Limit (s)	Verdict
DL	Lower 700MHz	0.23	≤1	18.02	0	≤5	/	≥60	PASS
	Upper 700MHz	0.70		23.71	0		/		PASS
	Cellular	0.25		25.17	0		/		PASS
	AWS-1	0.05		5.41	0		/		PASS
	Broadband PCS	0.06		9.53	0		/		PASS
UL	Lower 700MHz	0.26	≤0.3	34.59	0	≤5	/	≥60	PASS
	Upper 700MHz	0.04		29.22	0		/		PASS
	Cellular	0.15		25.60	0		/		PASS
	AWS-1	0.10		26.79	0		/		PASS
	Broadband PCS	0.15		33.35	0		/		PASS
Remark: The EUT will not restart after oscillation detection and mitigation. It can demonstrate compliance to the restart limit without restart time testing.									

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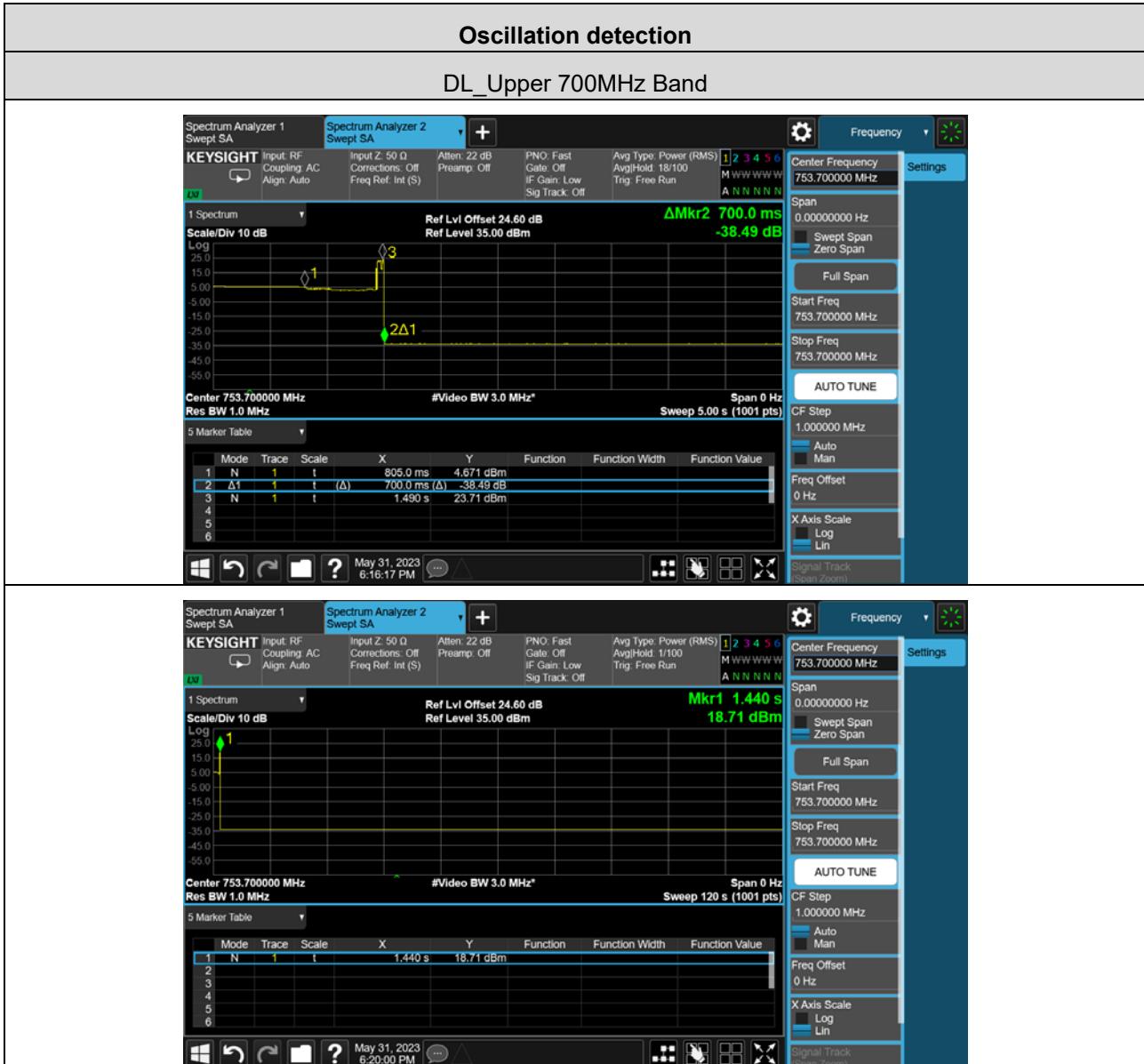
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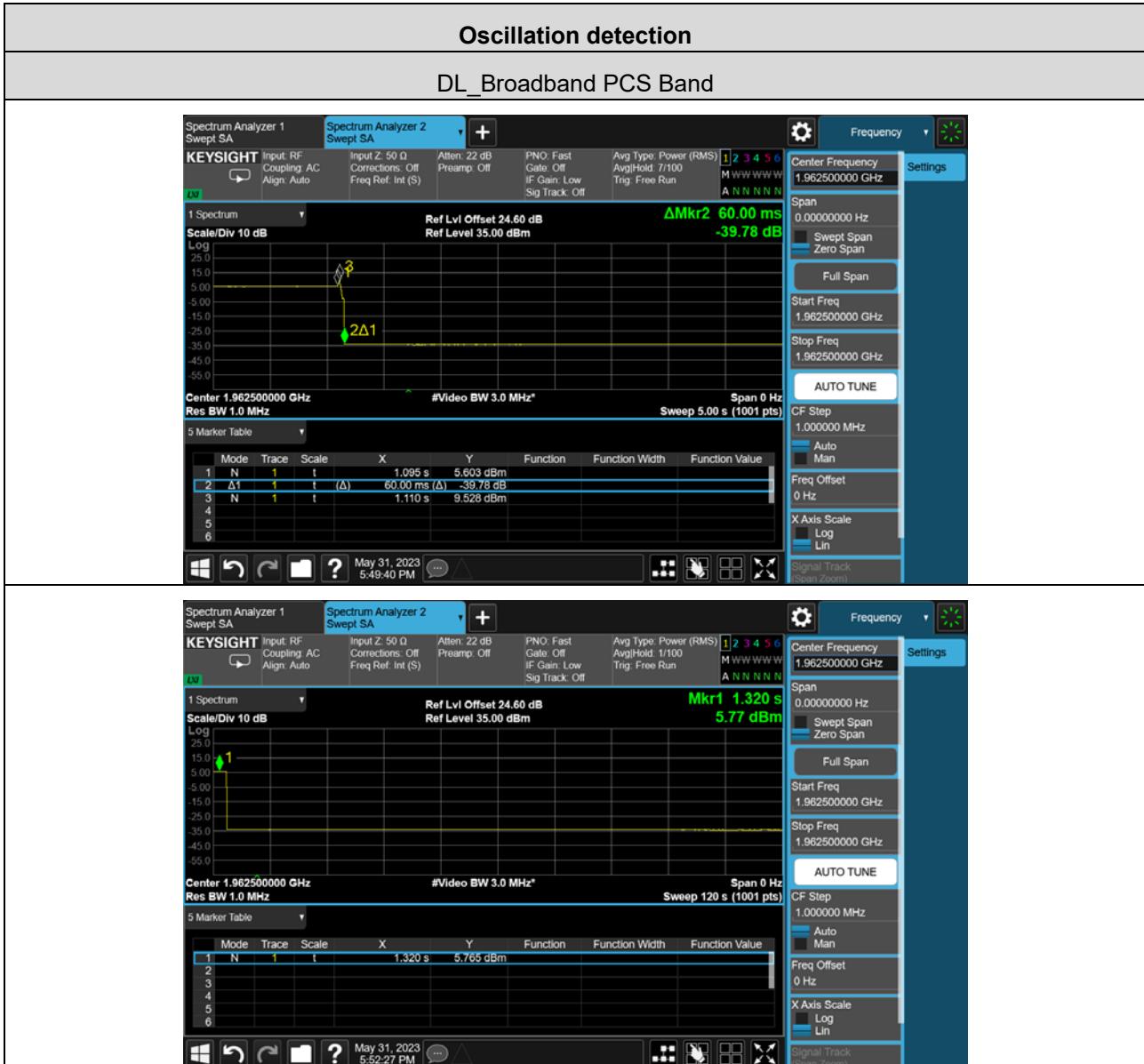
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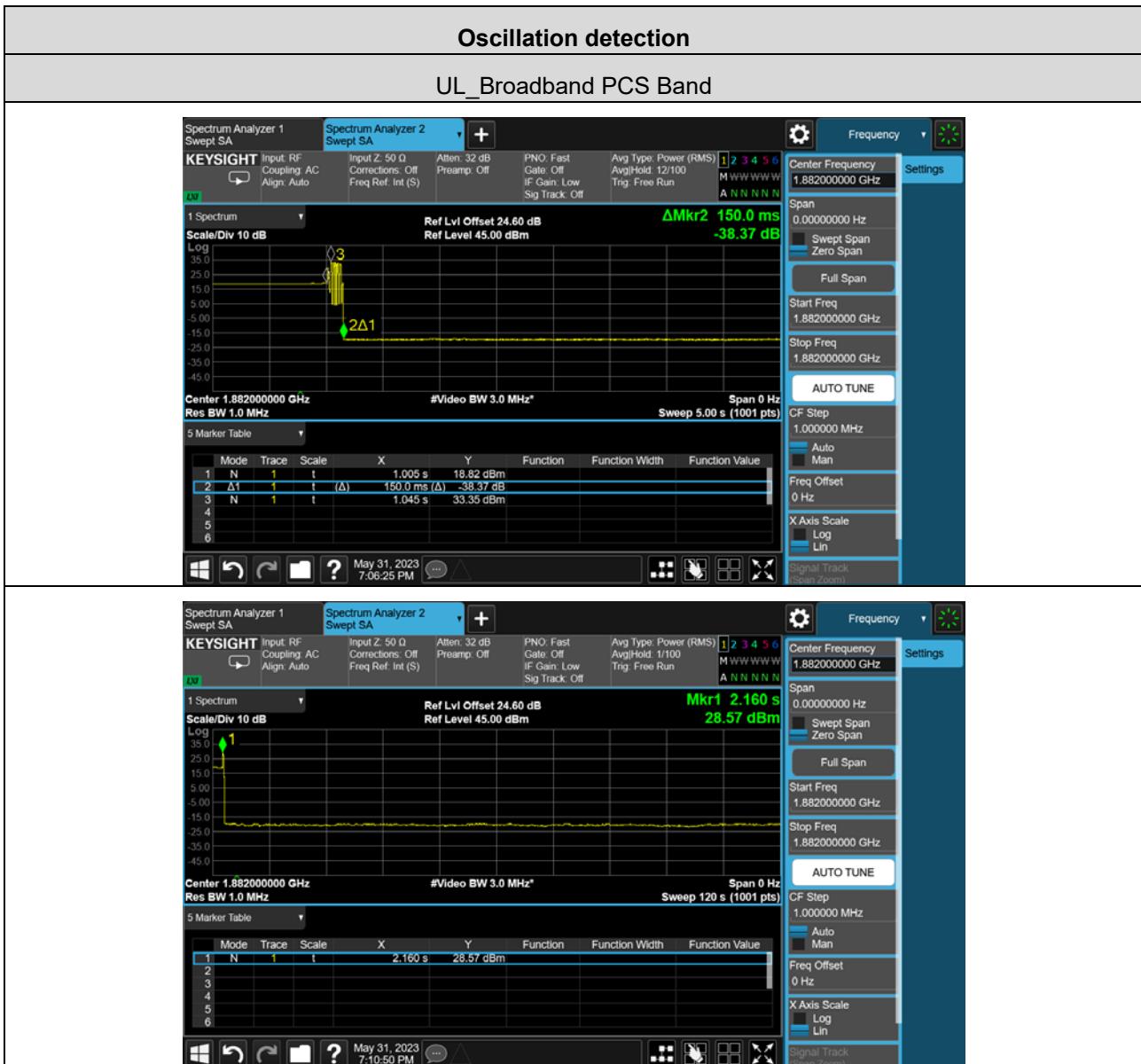


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12.2 Oscillation mitigation or shutdown

Oscillation Mitigation or Shutdown								
Path	Band	Isolation (dB)	Oscillation Level				Verdict	
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)		
DL	Lower 700MHz	85.31	19.46	16.82	2.64	≤12	PASS	
		84.31	21.31	19.91	1.40		PASS	
		83.31	17.36	15.35	2.01		PASS	
		82.31	15.43	12.03	3.40		PASS	
		81.31	19.03	16.93	2.10		PASS	
		80.31	14.38	11.32	3.06		PASS	
		79.31	(shut down)				PASS	
		78.31					PASS	
		77.31					PASS	
		76.31					PASS	
		75.31					PASS	
DL	Upper 700MHz	85.46	25.10	23.29	1.81	≤12	PASS	
		84.46	30.42	26.89	3.53		PASS	
		83.46	26.38	23.42	2.96		PASS	
		82.46	21.36	18.93	2.43		PASS	
		81.46	15.37	14.29	1.08		PASS	
		80.46	19.38	16.93	2.45		PASS	
		79.46	14.47	11.03	3.44		PASS	
		78.46	12.26	10.14	2.12		PASS	
		77.46	19.38	15.39	3.99		PASS	
		76.46	(shut down)				PASS	
		75.46					PASS	

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Oscillation Mitigation or Shutdown								
Path	Band	Isolation (dB)	Oscillation Level				Verdict	
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)		
DL	Cellular	85.21	26.46	22.35	4.11	≤12	PASS	
		84.21	30.27	27.74	2.53		PASS	
		83.21	27.48	24.39	3.09		PASS	
		82.21	22.46	19.93	2.53		PASS	
		81.21	15.38	12.31	3.07		PASS	
		80.21	13.48	11.02	2.46		PASS	
		79.21	(shut down)				PASS	
		78.21					PASS	
		77.21					PASS	
		76.21					PASS	
		75.21					PASS	
	AWS-1	85.41	6.95	4.17	2.78	≤12	PASS	
		84.41	12.47	9.83	2.64		PASS	
		83.41	15.83	13.29	2.54		PASS	
		82.41	8.92	5.38	3.54		PASS	
		81.41	(shut down)				PASS	
		80.41					PASS	
		79.41					PASS	
		78.41					PASS	
		77.41					PASS	
		76.41					PASS	
		75.41					PASS	

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Oscillation Mitigation or Shutdown								
Path	Band	Isolation (dB)	Oscillation Level				Verdict	
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)		
DL	Broadband PCS	85.95	11.21	9.38	1.83	≤12	PASS	
		84.95	16.38	14.29	2.09		PASS	
		83.95	14.32	12.37	1.95		PASS	
		82.95	9.38	7.37	2.01		PASS	
		81.95	10.37	7.93	2.44		PASS	
		80.95	(shut down)				PASS	
		79.95					PASS	
		78.95					PASS	
		77.95					PASS	
		76.95					PASS	
		75.95					PASS	
UL	Lower 700MHz	85.91	37.34	35.43	1.91	≤12	PASS	
		84.91	33.21	30.12	3.09		PASS	
		83.91	30.94	27.39	3.55		PASS	
		82.91	21.32	18.78	2.54		PASS	
		81.91	16.32	14.46	1.86		PASS	
		80.91	(shut down)				PASS	
		79.91					PASS	
		78.91					PASS	
		77.91					PASS	
		76.91					PASS	
		75.91					PASS	

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Oscillation Mitigation or Shutdown								
Path	Band	Isolation (dB)	Oscillation Level				Verdict	
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)		
UL	Upper 700MHz	85.89	30.78	27.38	3.40	≤12	PASS	
		84.89	35.36	31.73	3.63		PASS	
		83.89	27.34	25.31	2.03		PASS	
		82.89	20.37	18.73	1.64		PASS	
		81.89	15.21	13.29	1.92		PASS	
		80.89	(shut down)				PASS	
		79.89					PASS	
		78.89					PASS	
		77.89					PASS	
		76.89					PASS	
		75.89					PASS	
		85.26	27.18	25.22	1.96	≤12	PASS	
		84.26	22.37	19.38	2.99		PASS	
		83.26	18.32	16.21	2.11		PASS	
		82.26	11.43	8.38	3.05		PASS	
	Cellular	81.26	(shut down)				PASS	
		80.26					PASS	
		79.26					PASS	
		78.26					PASS	
		77.26					PASS	
		76.26					PASS	
		75.26					PASS	

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Oscillation Mitigation or Shutdown								
Path	Band	Isolation (dB)	Oscillation Level				Verdict	
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)		
UL	AWS-1	85.05	29.07	26.58	2.49	≤12	PASS	
		84.05	20.37	18.83	1.54		PASS	
		83.05	24.37	21.38	2.99		PASS	
		82.05	18.93	17.39	1.54		PASS	
		81.05	13.94	11.93	2.01		PASS	
		80.05	(shut down)				PASS	
		79.05					PASS	
		78.05					PASS	
		77.05					PASS	
		76.05					PASS	
		75.05					PASS	
		85.57	35.27	33.48	1.79	≤12	PASS	
		84.57	31.11	28.47	2.64		PASS	
		83.57	24.38	22.93	1.45		PASS	
		82.57	14.52	13.38	1.14		PASS	
		81.57	10.83	7.37	3.46		PASS	
		80.57	19.32	17.16	2.16		PASS	
	Broadband PCS	79.57	(shut down)				PASS	
		78.57					PASS	
		77.57					PASS	
		76.57					PASS	
		75.57					PASS	

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13 Radiated spurious emissions

20.21(e)(9)(i)(F) Out of Band Emission Limits:

Booster out of band emissions (OOBE) shall meet the FCC's mobile emission limits for the supported bands of operation. Compliance to OOBE limits will utilize high peak-to-average CMRS signal types.

22.917

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The limit = $\{P - [43 + 10 \log (P)]\}$ dBm = -13dBm.

24.238

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The limit = $\{P - [43 + 10 \log (P)]\}$ dBm = -13dBm.

27.53(c)

For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

The limit = $\{P - [43 + 10 \log (P)]\}$ dBm = -13dBm.

2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

The limit = $\{P - [43 + 10 \log (P)]\}$ dBm = -13dBm.

27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

27.53(g)

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB.

The limit = $\{P - [43 + 10 \log (P)]\}$ dBm = -13dBm.

27.53(h)

the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log (P)$ dB.

The limit = $\{P - [43 + 10 \log (P)]\}$ dBm = -13dBm.

The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.



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