

8 Uplink inactivity

Uplink Inactivity						
Path	Band	Time (s)	limit (s)	Noise Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
UL	Lower 700MHz	291.4	≤300	-82.22	≤-70	PASS
	Upper 700MHz	288.1	≤300	-81.77	≤-70	PASS
	Cellular	288.1	≤300	-81.75	≤-70	PASS
	AWS-1	282.8	≤300	-81.03	≤-70	PASS
	Broadband PCS	291.1	≤300	-80.43	≤-70	PASS



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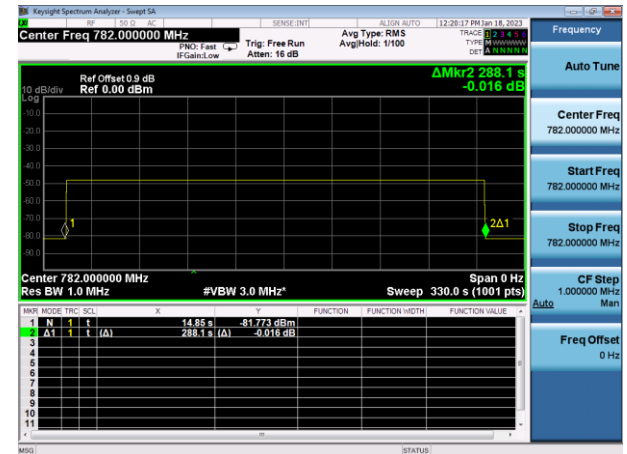
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Uplink Inactivity

UL_Lower 700MHz Band



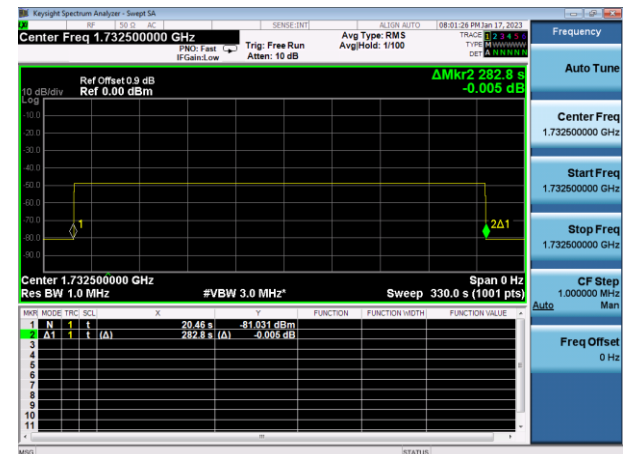
UL_Upper 700MHz Band



UL_Cellular Band



UL_AWS-1 Band

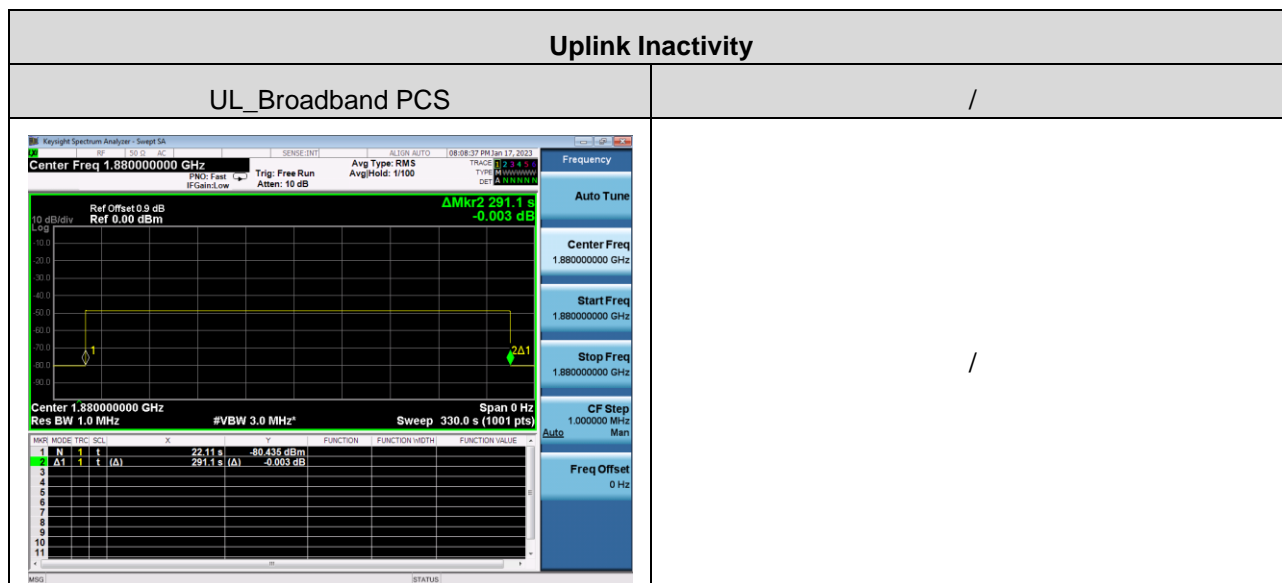


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9 Variable booster gain

Variable Gain								
Path	Band	RSSI (dBm)	P _{in} (dBm)	P _{out} (dBm)	Gain (dB)	MSCL (dB)	Limit (dB)	Verdict
UL	Lower 700MHz	-85	-49.5	10.1	59.6	23.9	≤60.9	PASS
		-80	-49.5	3.8	53.3		≤54.9	PASS
		-71	-49.5	-1.6	47.9		≤50.9	PASS
		-68	-49.5	-11.2	38.3		≤39.9	PASS
		-63	-49.5	-19.3	30.2		≤32.9	PASS
		-39	-49.5	-23.4	26.1		≤29.9	PASS
	Upper 700MHz	-90	-51.5	4.3	55.8	24.8	≤56.8	PASS
		-83	-51.5	1.0	52.5		≤53.8	PASS
		-79	-51.5	-5.5	46.0		≤47.8	PASS
		-71	-51.5	-8.5	43.0		≤44.8	PASS
		-55	-51.5	-10.8	40.7		≤42.8	PASS
		-52	-51.5	-21.6	29.9		≤33.8	PASS
	Cellular	-90	-51.5	7.4	58.9	25.3	≤61.3	PASS
		-88	-51.5	5.1	56.6		≤58.3	PASS
		-86	-51.5	3.3	54.8		≤57.3	PASS
		-77	-51.5	-19.0	32.5		≤35.3	PASS
		-43	-51.5	-23.4	28.1		≤32.3	PASS
		-35	-51.5	-26.8	24.7		≤29.3	PASS



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Variable Gain								
Path	Band	RSSI (dBm)	P _{in} (dBm)	P _{out} (dBm)	Gain (dB)	MSCL (dB)	Limit (dB)	Verdict
UL	AWS-1	-87	-59.5	3.9	63.4	31.7	≤64.7	PASS
		-77	-59.5	-6.1	53.4		≤54.7	PASS
		-71	-59.5	-11.7	47.8		≤49.7	PASS
		-58	-59.5	-13.3	46.2		≤48.7	PASS
		-50	-59.5	-15.2	44.3		≤46.7	PASS
		-39	-59.5	-18.6	40.9		≤43.7	PASS
	Broadband PCS	-90	-58.5	5.9	64.4	32.4	≤66.4	PASS
		-86	-58.5	3.1	61.6		≤64.4	PASS
		-64	-58.5	2.5	61.0		≤63.4	PASS
		-43	-58.5	-12.2	46.3		≤49.4	PASS
		-36	-58.5	-20.8	37.7		≤41.4	PASS
		-28	-58.5	-25.2	33.3		≤36.4	PASS

Remark:

1. The EUT lost amplification ability when operating in shutoff mode, so the uplink and downlink gain was within the transmit power off mode gain limit 23dB.
2. The lowest MSCL for each band can be calculated as follows:

Bands	f (MHz)	d (m)	L _p (dB)	Indoor ANT Gain (dBi)	Indoor Cable Loss (dB)	MSCL (dB)
Lower 700MHz	698	1.5	32.9	10	1	23.9
Upper 700MHz	777	1.5	33.8	10	1	24.8
Cellular	824	1.5	34.3	10	1	25.3
AWS-1	1710	1.5	40.7	10	1	31.7
Broadband PCS	1850	1.5	41.4	10	1	32.4

Where, the minimum separation distance d, the indoor antenna gain and the minimum indoor cable loss were from the manufacturer.



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Remark:

3.

According to KDB 935210 D03 v04r04 appendix D figurer D2, the RSSI-dependent region can be calculated:

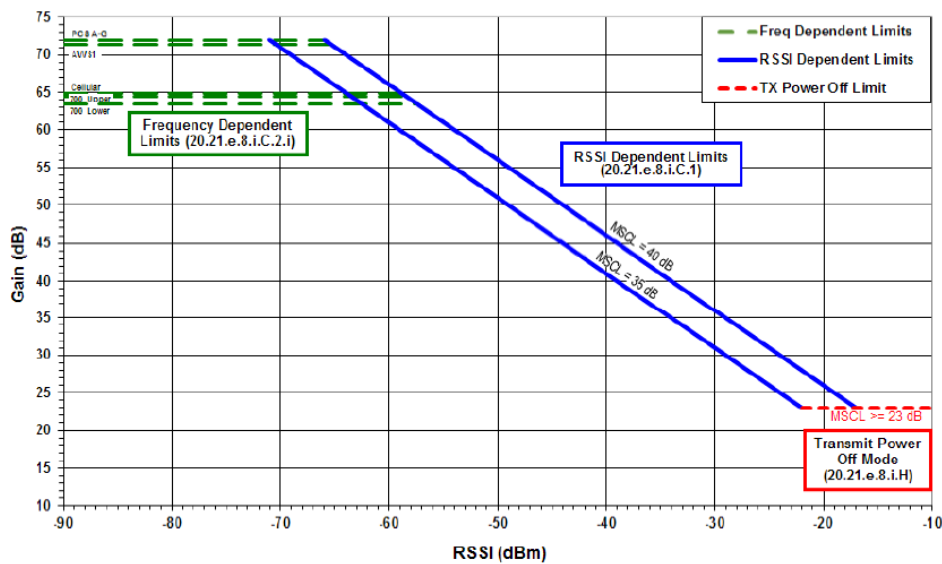
for Lower 700MHz, the RSSI-dependent region is -73.59 dBm to -33.10 dBm

for Upper 700MHz, the RSSI-dependent region is -73.54 dBm to -32.18 dBm

for Cellular, the RSSI-dependent region is -73.61 dBm to -31.66 dBm

for AWS-1, the RSSI-dependent region is -73.59 dBm to -25.32 dBm

for Broadband PCS, the RSSI-dependent region is -73.62 dBm to -24.64 dBm



Variable Uplink Gain Timing				
Path	Band	Time (s)	Limit (s)	Verdict
UL	Lower 700MHz	0.45	≤ 3	PASS
	Upper 700MHz	0.76	≤ 3	PASS
	Cellular	0.37	≤ 3	PASS
	AWS-1	0.35	≤ 3	PASS
	Broadband PCS	0.71	≤ 3	PASS



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10 Occupied bandwidth

Occupied Bandwidth						
Path	Band	Center Frequency (MHz)	Input Signal	99% OBW (MHz)		Verdict
				Input	Output	
DL	700MHz	742	GSM	0.24589	0.24529	PASS
			1.25MHz AWGN	1.2170	1.2121	PASS
			4.1MHz AWGN	4.1082	4.1022	PASS
	Cellular	881.5	GSM	0.24673	0.24559	PASS
			1.25MHz AWGN	1.2118	1.2129	PASS
			4.1MHz AWGN	4.1028	4.1071	PASS
	AWS-1	2132.5	GSM	0.24598	0.24537	PASS
			1.25MHz AWGN	1.2136	1.2129	PASS
			4.1MHz AWGN	4.1022	4.1058	PASS
	Broadband PCS	1960	GSM	0.24679	0.24597	PASS
			1.25MHz AWGN	1.2171	1.2107	PASS
			4.1MHz AWGN	4.1125	4.1075	PASS
UL	Lower 700MHz	707	GSM	0.24651	0.24640	PASS
			1.25MHz AWGN	1.2152	1.2122	PASS
			4.1MHz AWGN	4.1039	4.1063	PASS
	Upper 700MHz	782	GSM	0.24548	0.24633	PASS
			1.25MHz AWGN	1.2122	1.2152	PASS
			4.1MHz AWGN	4.1046	4.1037	PASS
	Cellular	836.5	GSM	0.24600	0.24676	PASS
			1.25MHz AWGN	1.2105	1.2125	PASS
			4.1MHz AWGN	4.1054	4.1074	PASS



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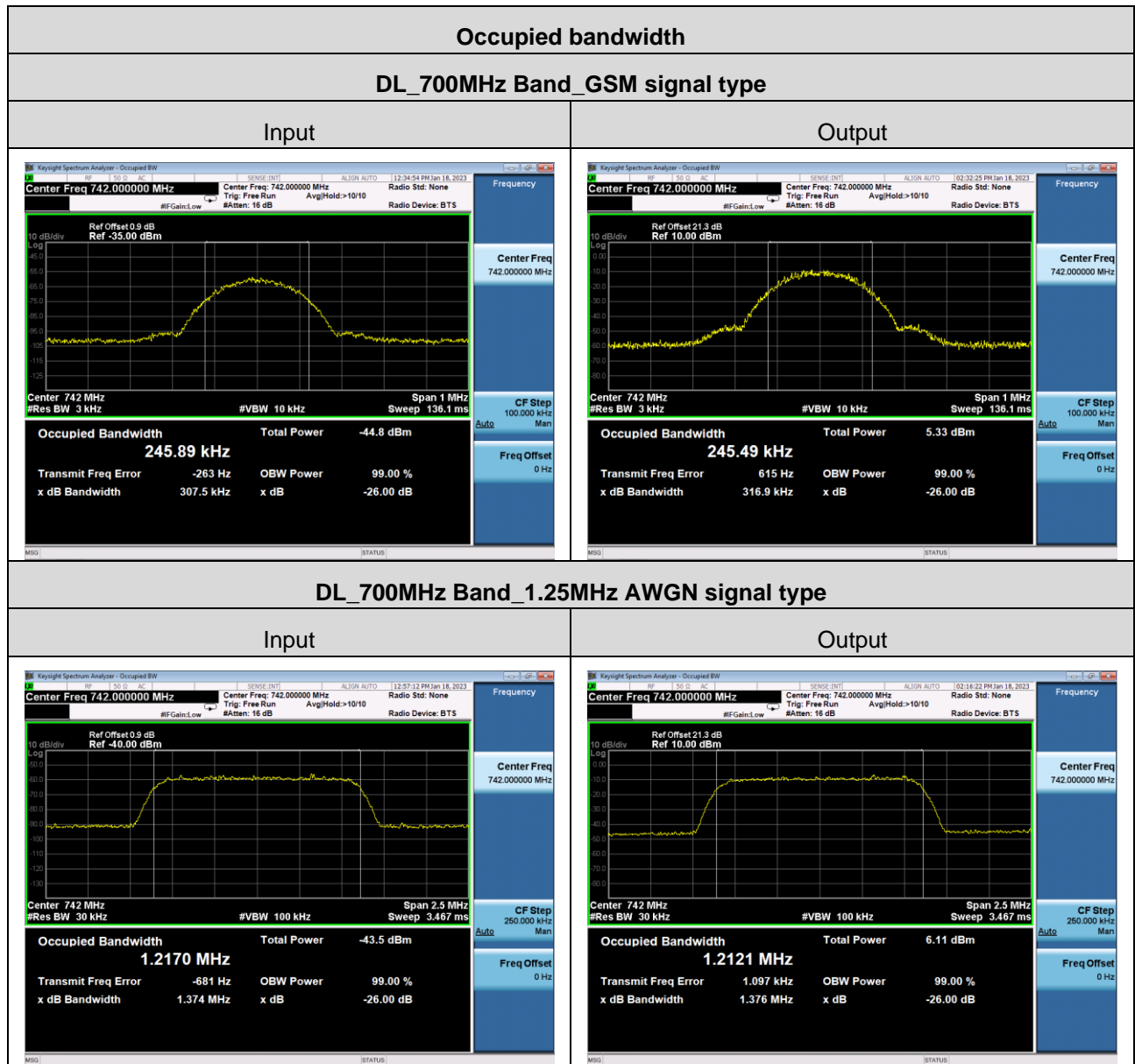
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Occupied Bandwidth						
Path	Band	Center Frequency (MHz)	Input Signal	99% OBW (MHz)		Verdict
				Input	Output	
UL	AWS-1	1732.5	GSM	0.24664	0.24646	PASS
			1.25MHz AWGN	1.2128	1.2121	PASS
			4.1MHz AWGN	4.1092	4.1012	PASS
	Broadband PCS	1880	GSM	0.24597	0.24535	PASS
			1.25MHz AWGN	1.2129	1.2136	PASS
			4.1MHz AWGN	4.1014	4.1023	PASS



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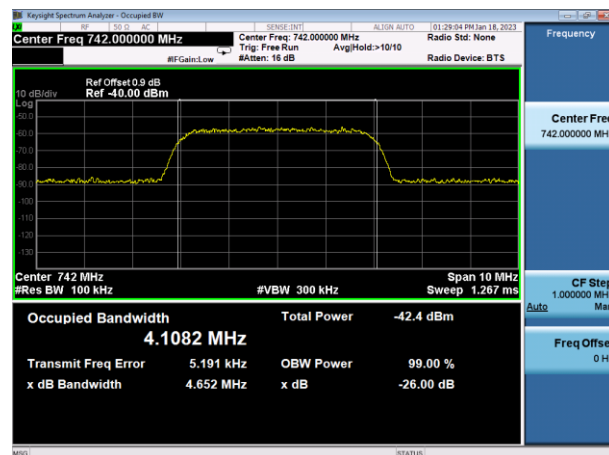
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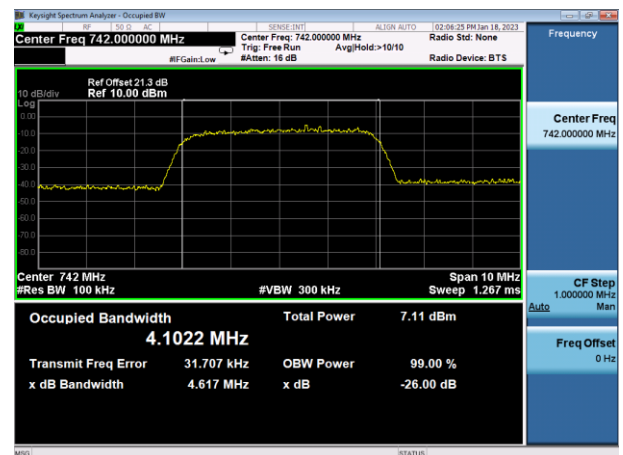
Occupied bandwidth

DL_700MHz Band_4.1MHz AWGN signal type

Input

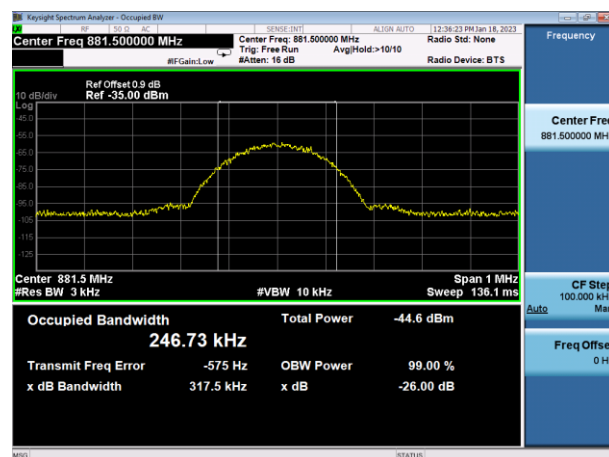


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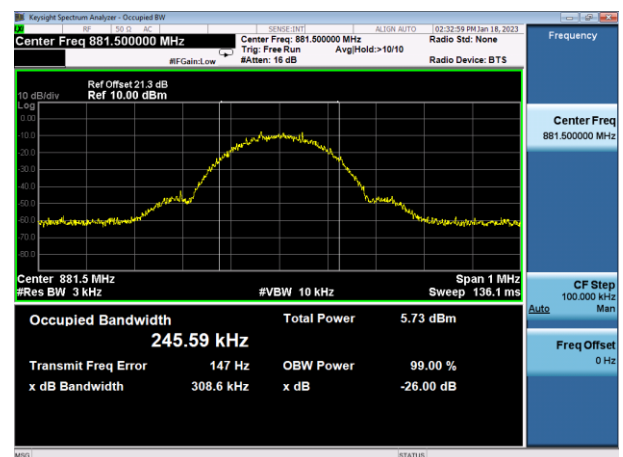


DL_Cellular Band_GSM signal type

Input



Output



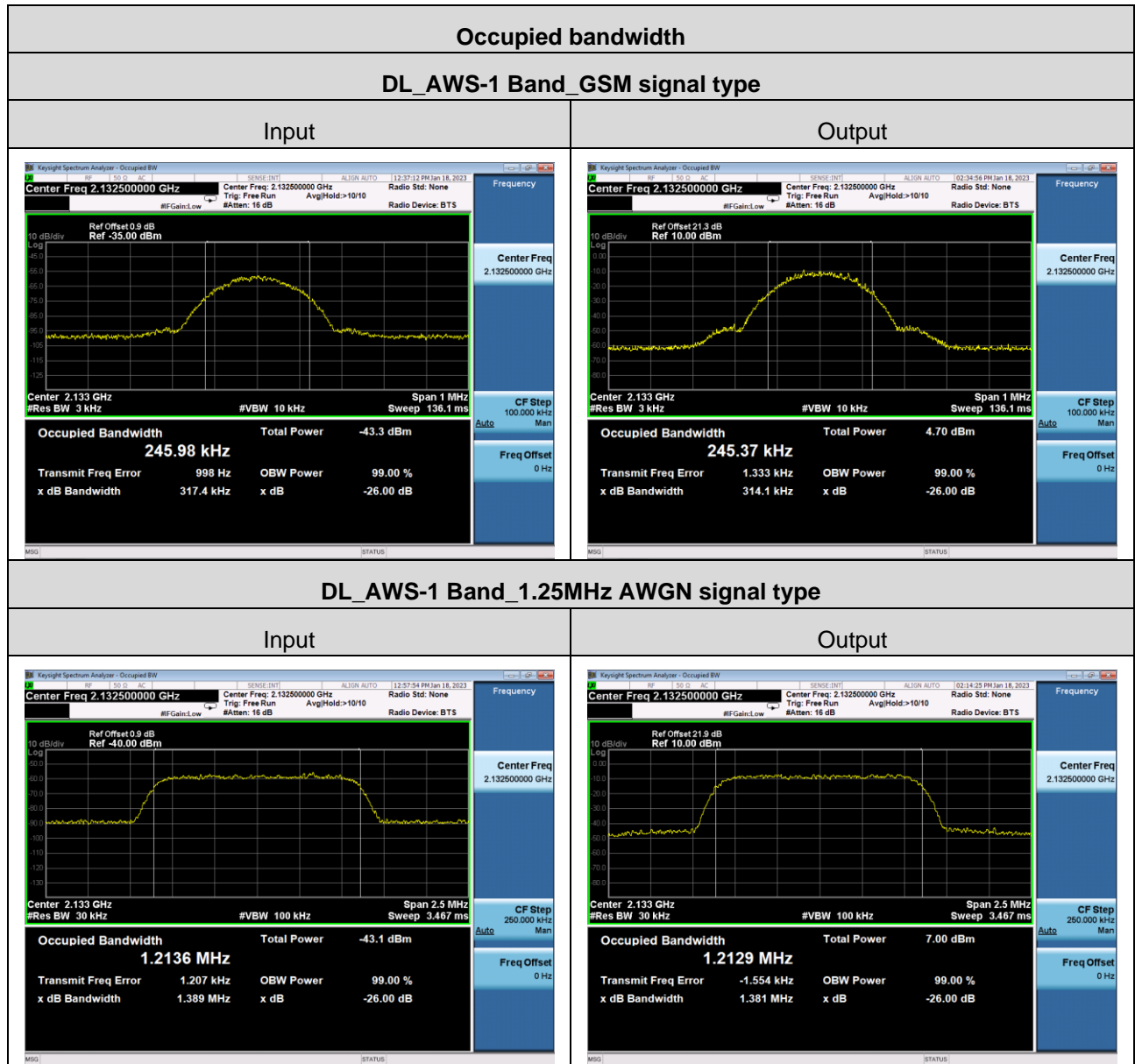
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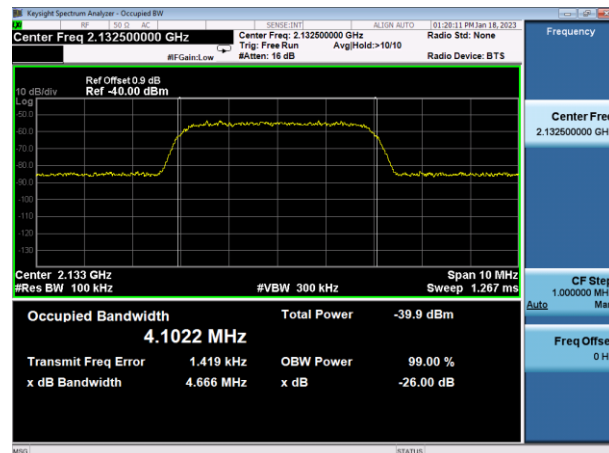
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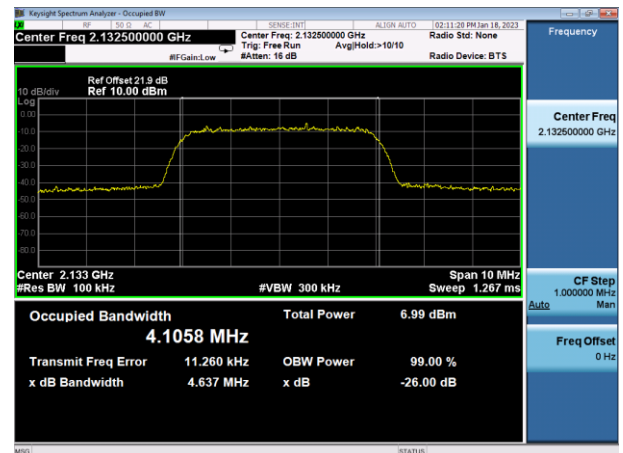
Occupied bandwidth

DL_AWS-1 Band_4.1MHz AWGN signal type

Input

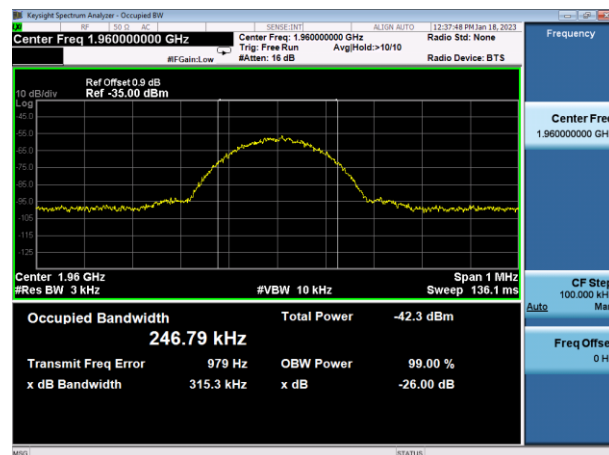


Output

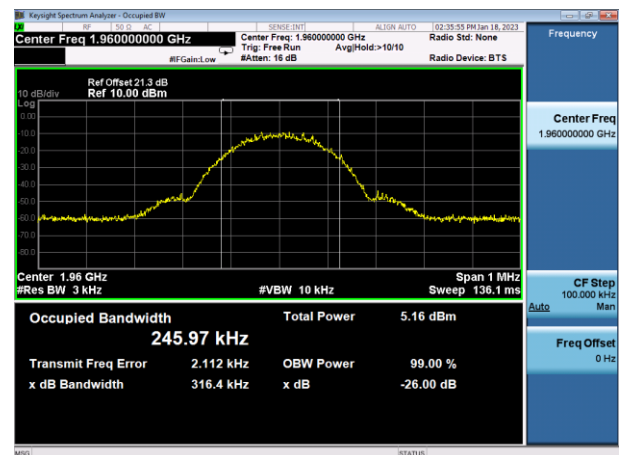


DL_Broadband Band_GSM signal type

Input



Output



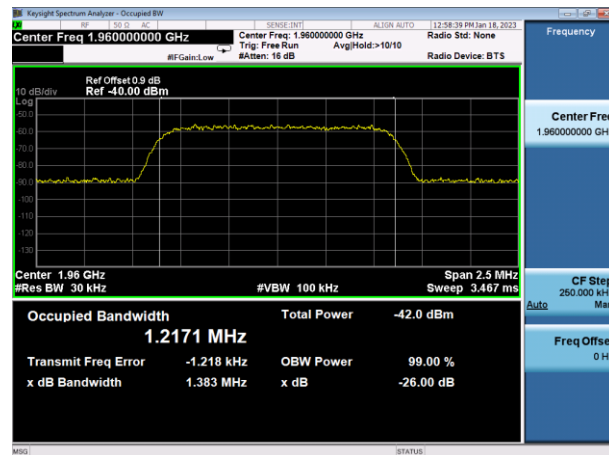
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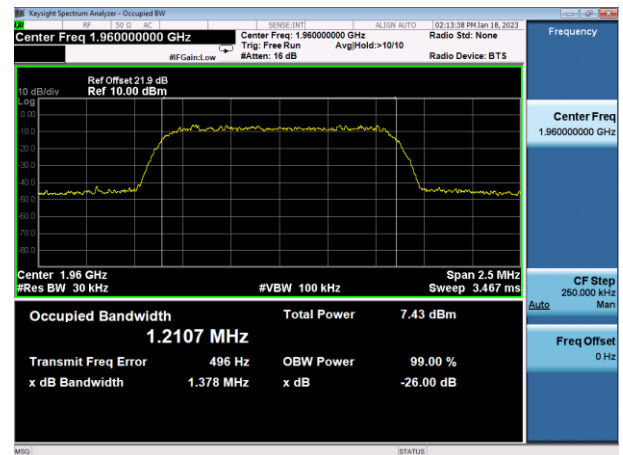
Occupied bandwidth

DL_Broadband Band_1.25MHz AWGN signal type

Input

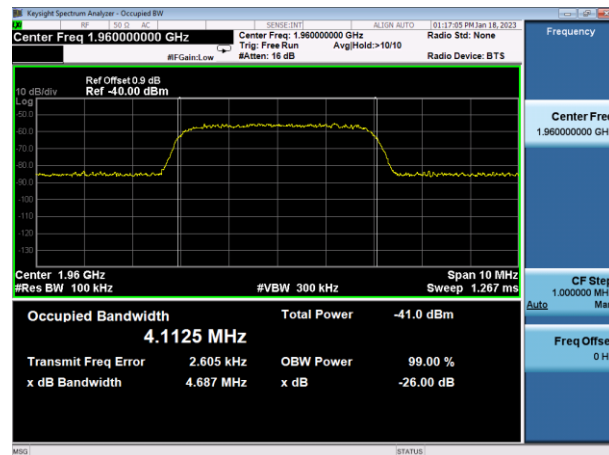


Output

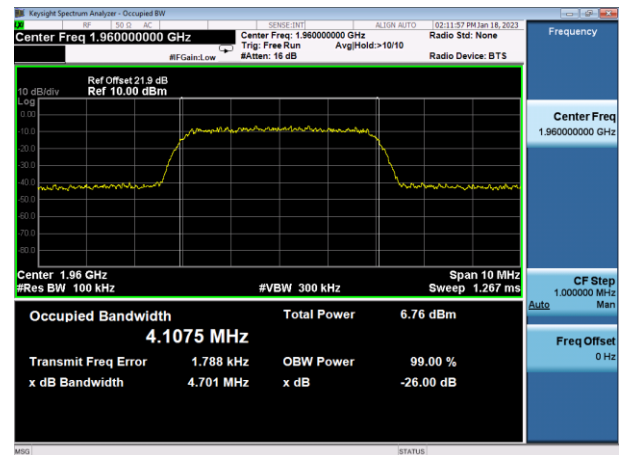


DL_Broadband Band_4.1MHz AWGN signal type

Input

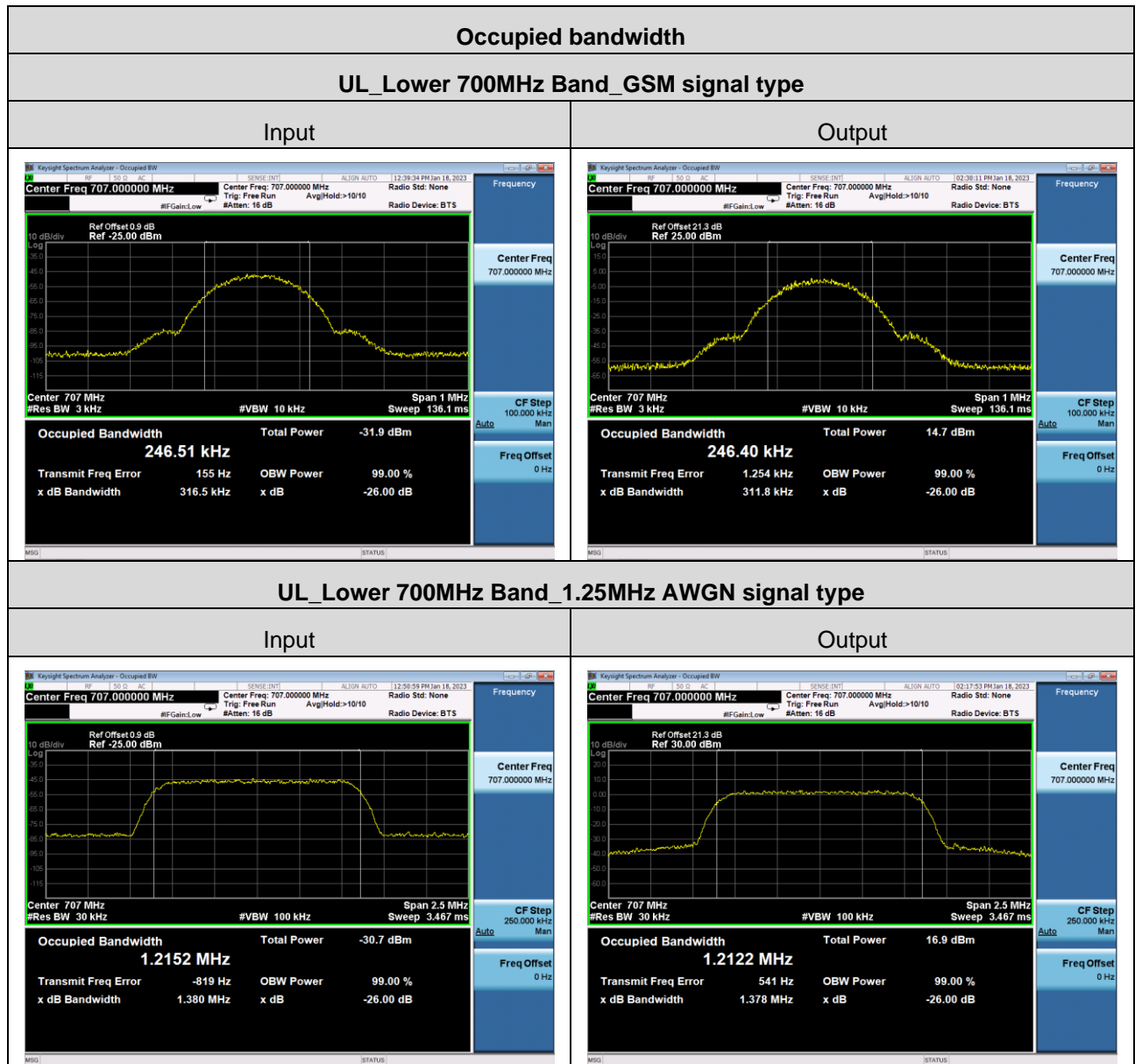


Output



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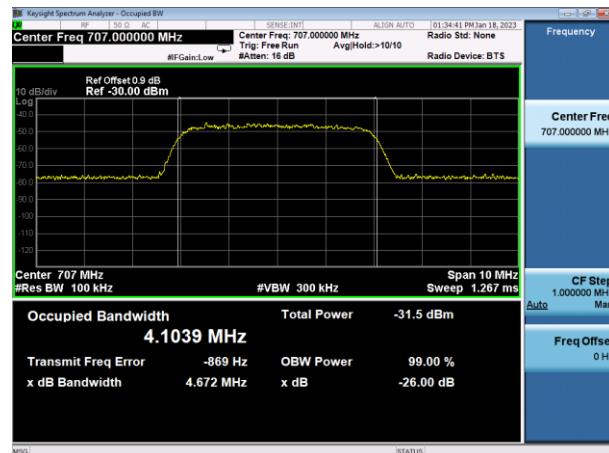
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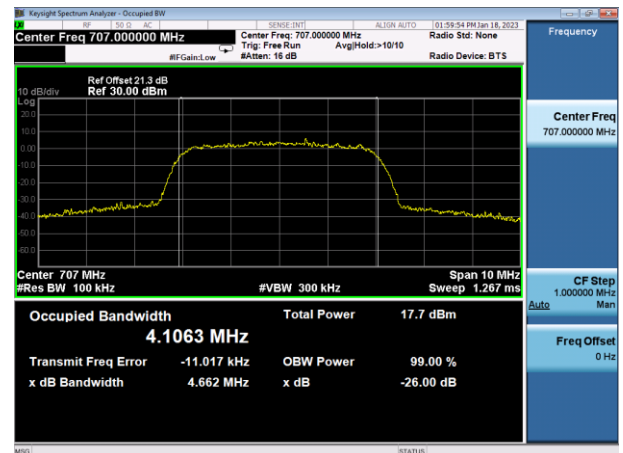
Occupied bandwidth

UL_Lower 700MHz Band_4.1MHz AWGN signal type

Input

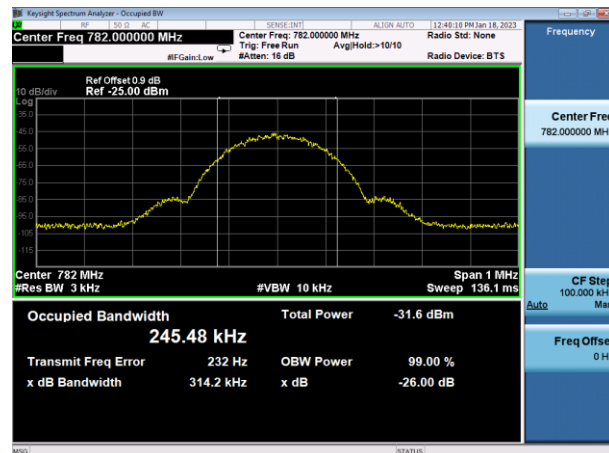


Output

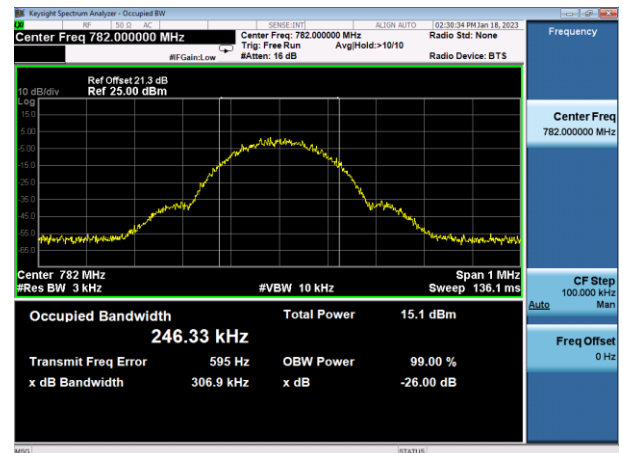


UL_Upper 700MHz Band_GSM signal type

Input



Output



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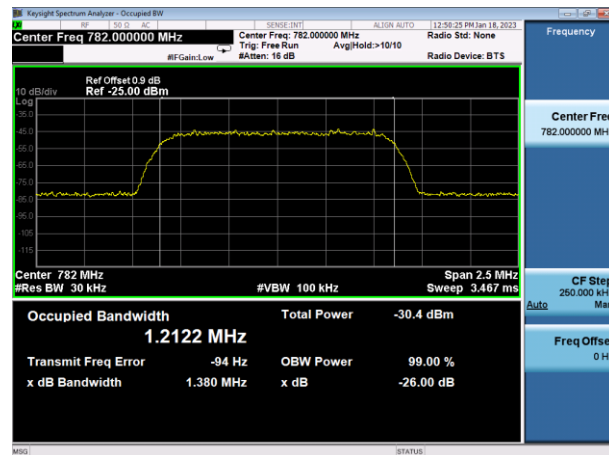
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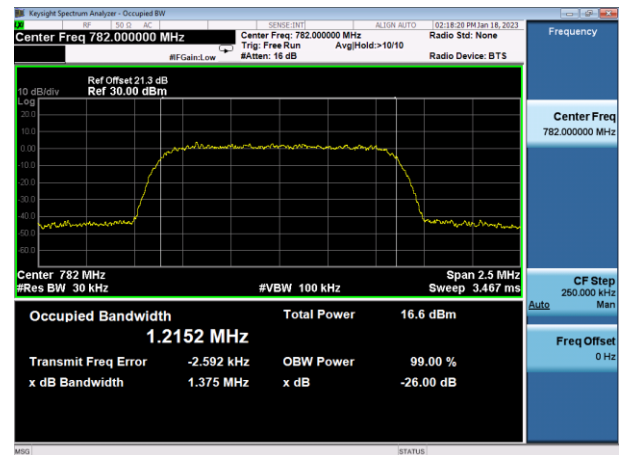
Occupied bandwidth

UL_Upper 700MHz Band_1.25MHz AWGN signal type

Input

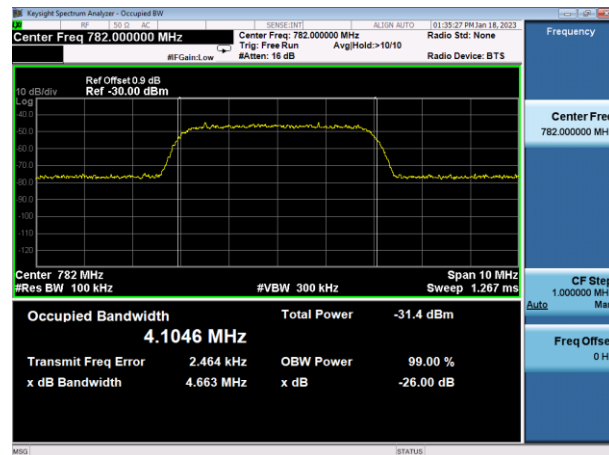


Output

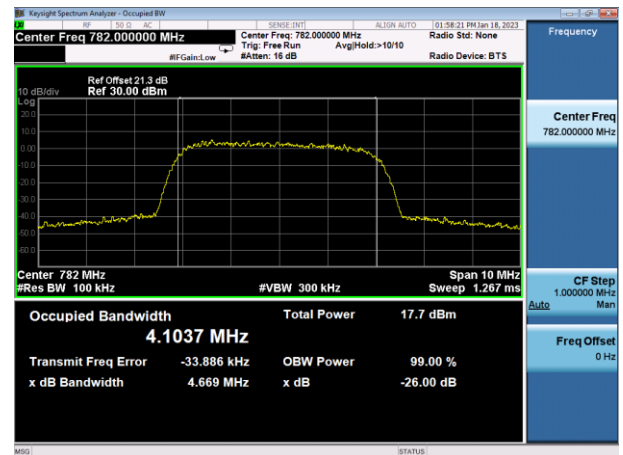


UL_Upper 700MHz Band_4.1MHz AWGN signal type

Input

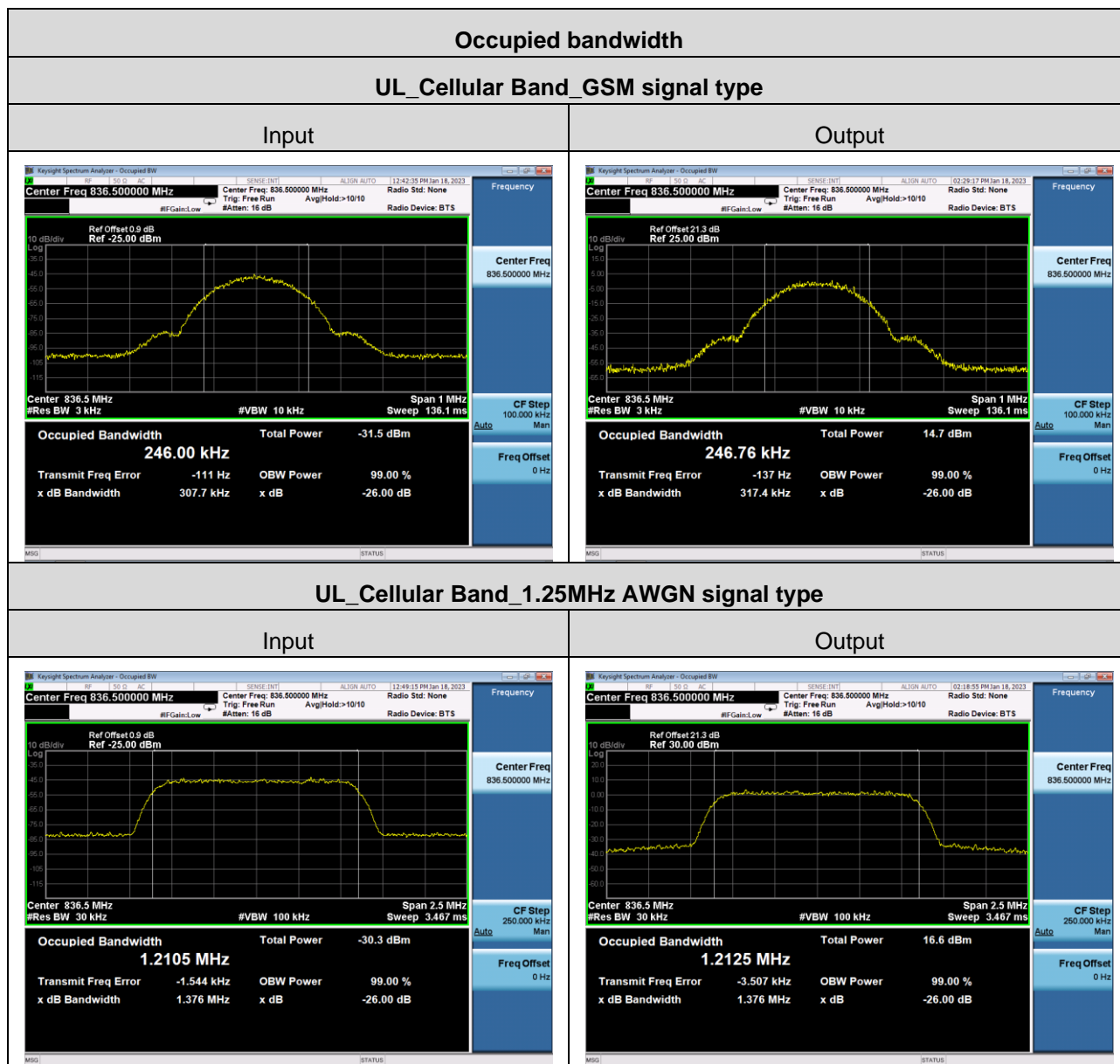


Output



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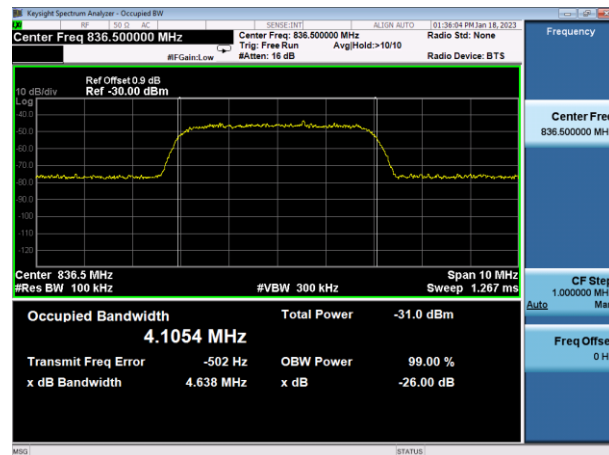
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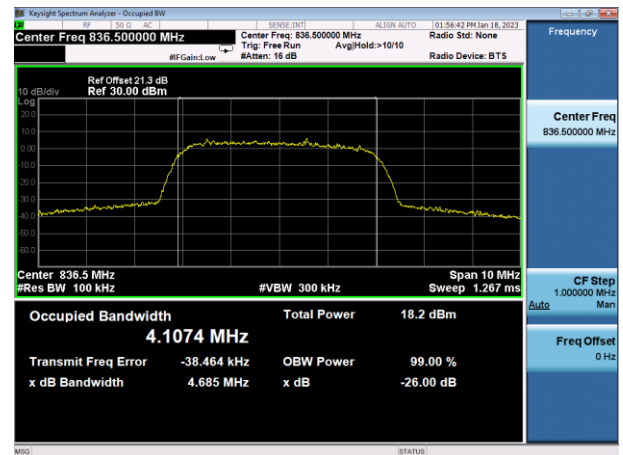
Occupied bandwidth

UL_Cellular Band_4.1MHz AWGN signal type

Input

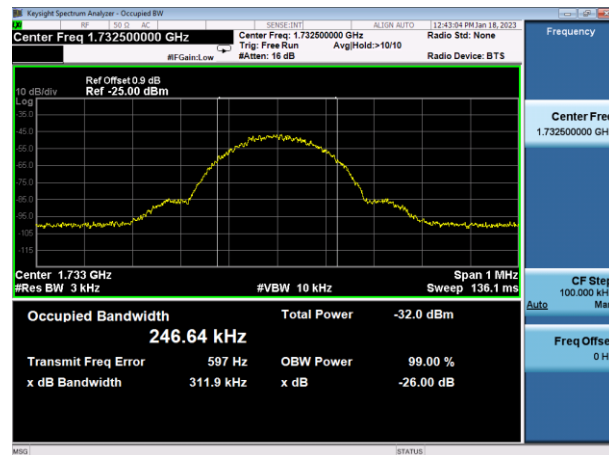


Output

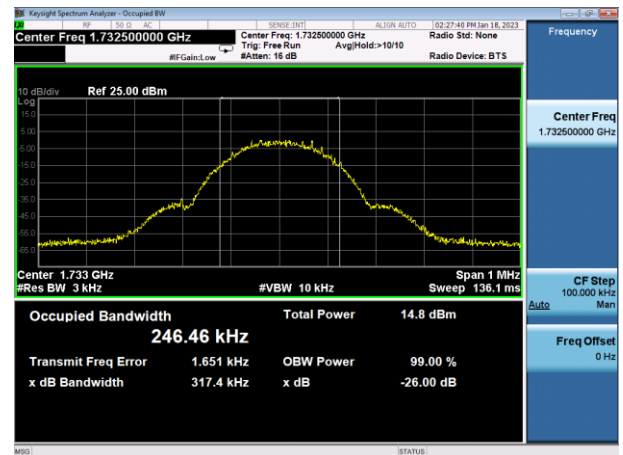


UL_AWS-1 Band_GSM signal type

Input



Output



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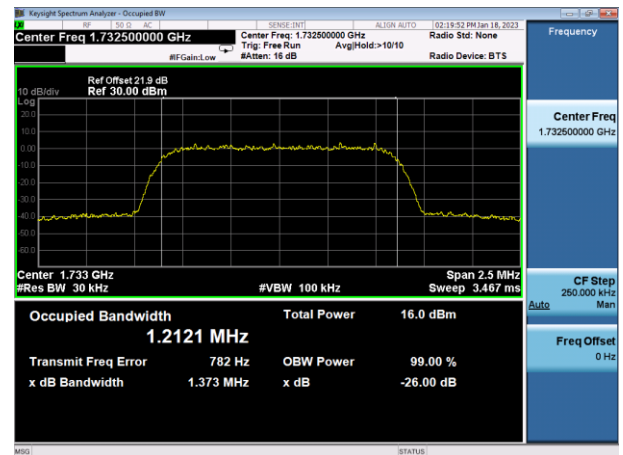
Occupied bandwidth

UL_AWS-1 Band_1.25MHz AWGN signal type

Input

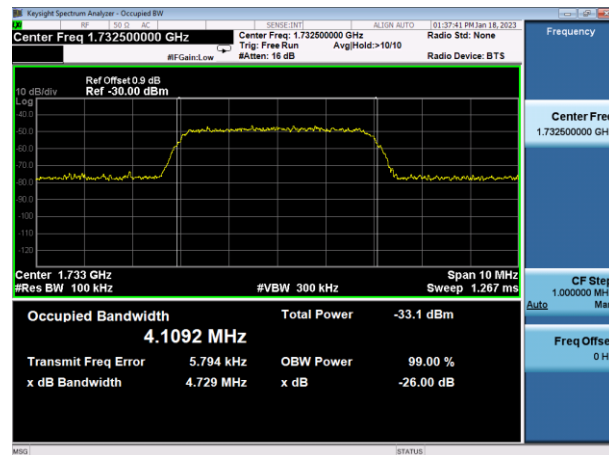


Output

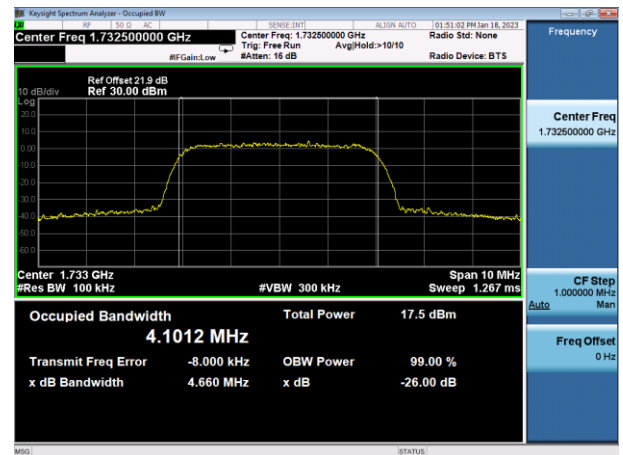


UL_AWS-1 Band_4.1MHz AWGN signal type

Input



Output



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