

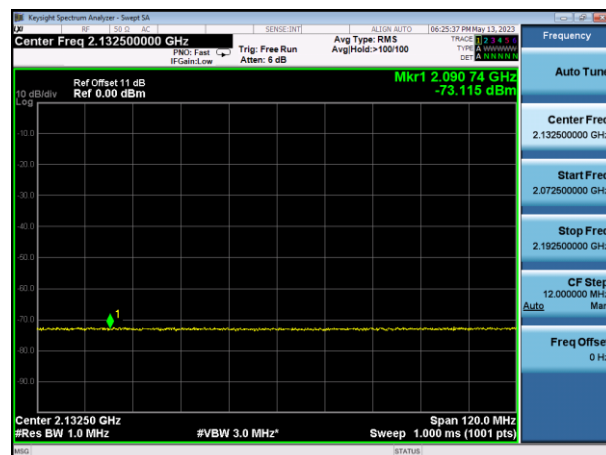
Maximum transmitter Noise Power Level

DL_AWS-1 Band

Power on

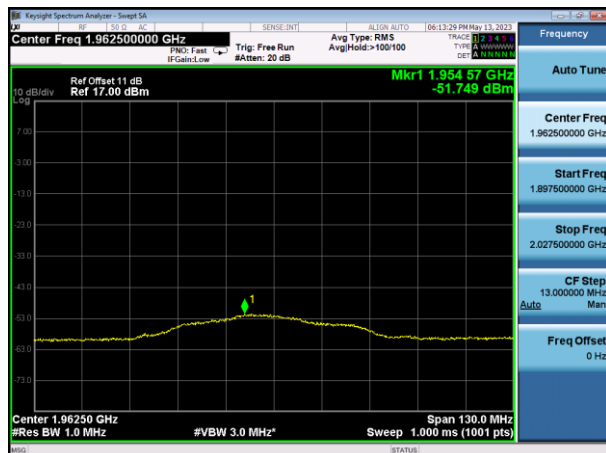


Power off

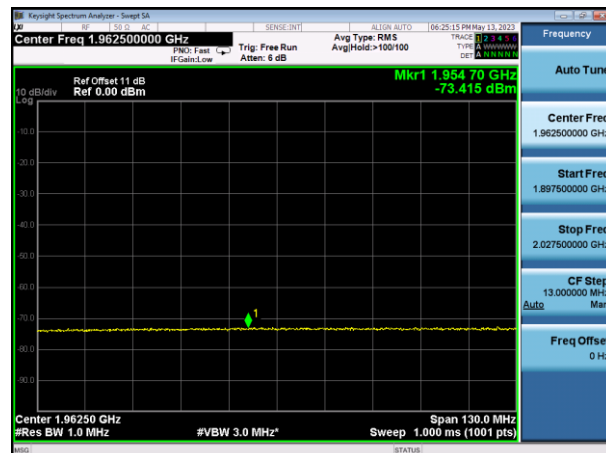


DL_Broadband PCS Band

Power on



Power off



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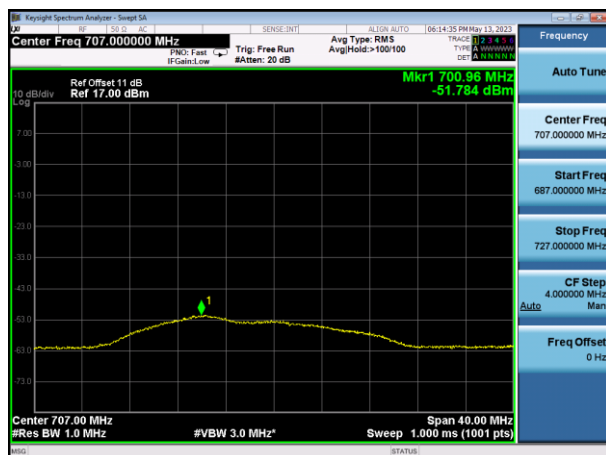
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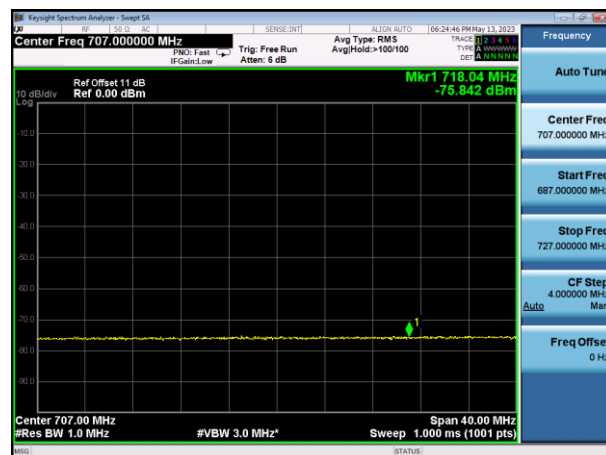
Maximum transmitter Noise Power Level

UL_Lower 700MHz Band

Power on

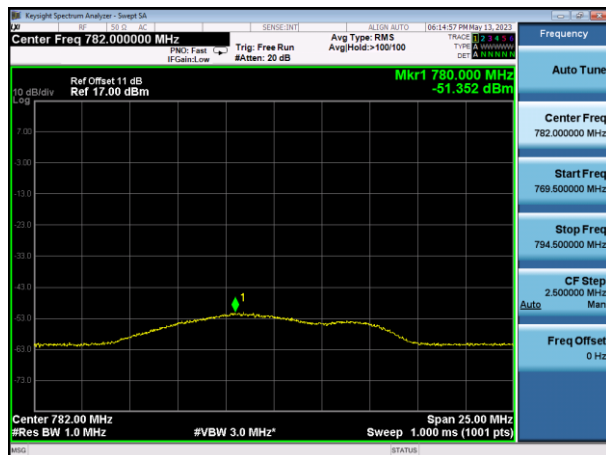


Power off

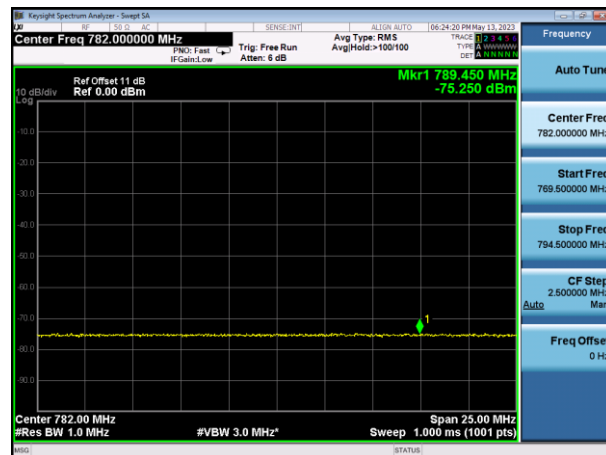


UL_Upper 700MHz Band

Power on



Power off

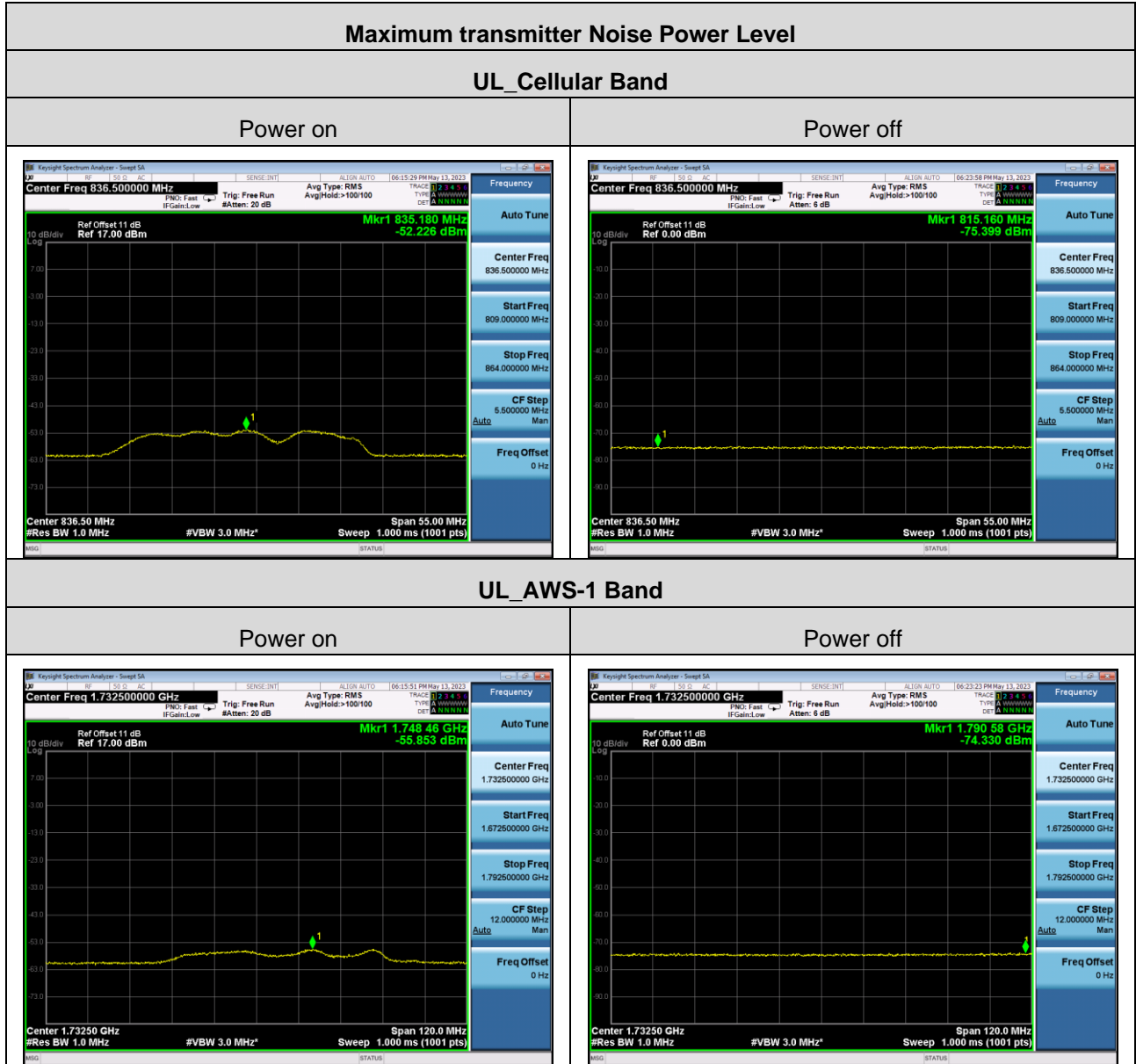


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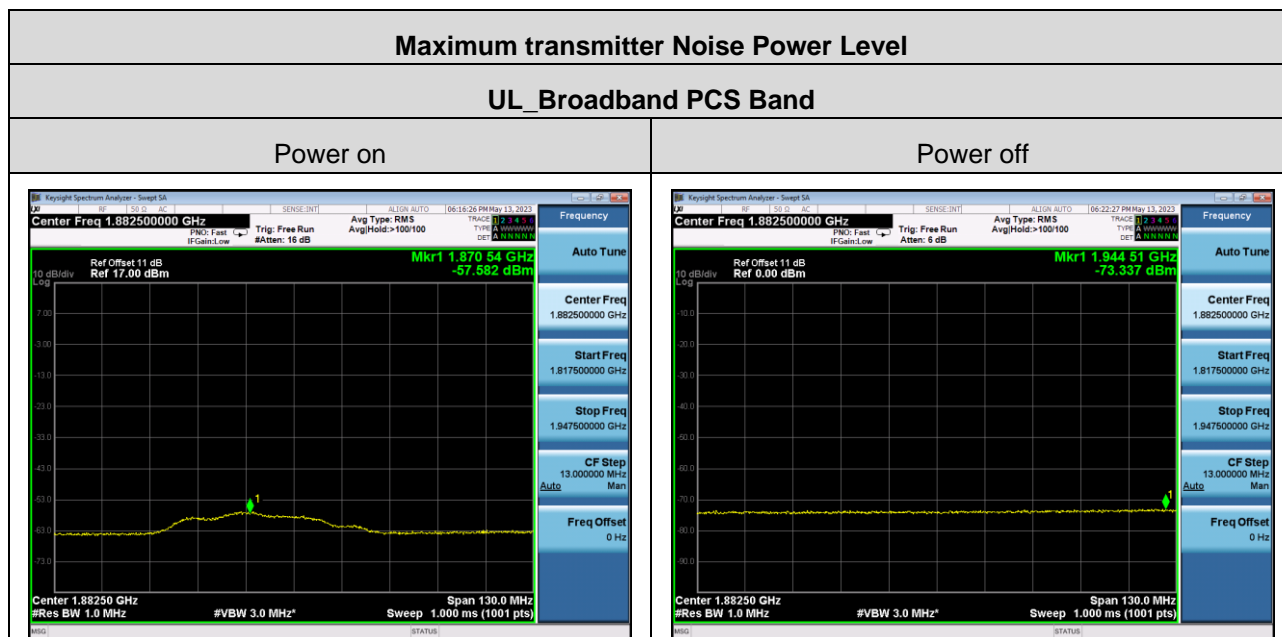
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Variable Uplink Noise Timing

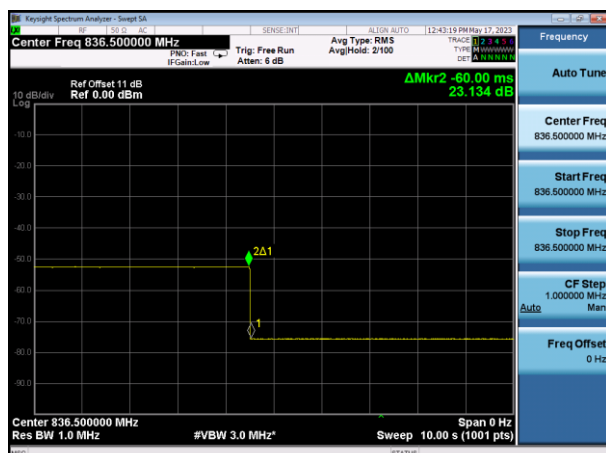
UL_Lower 700MHz Band



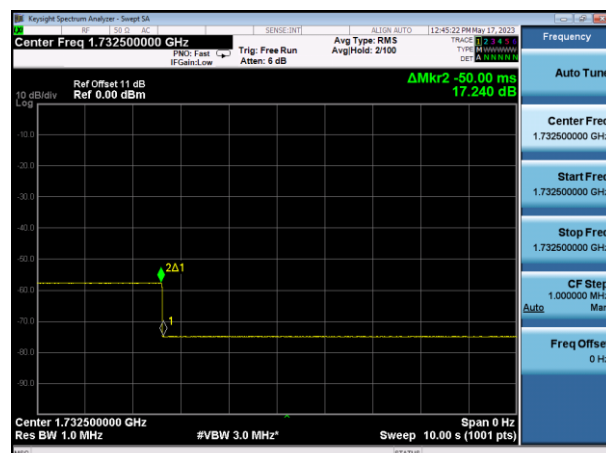
UL_Upper 700MHz Band



UL_Cellular Band



UL_AWS-1 Band

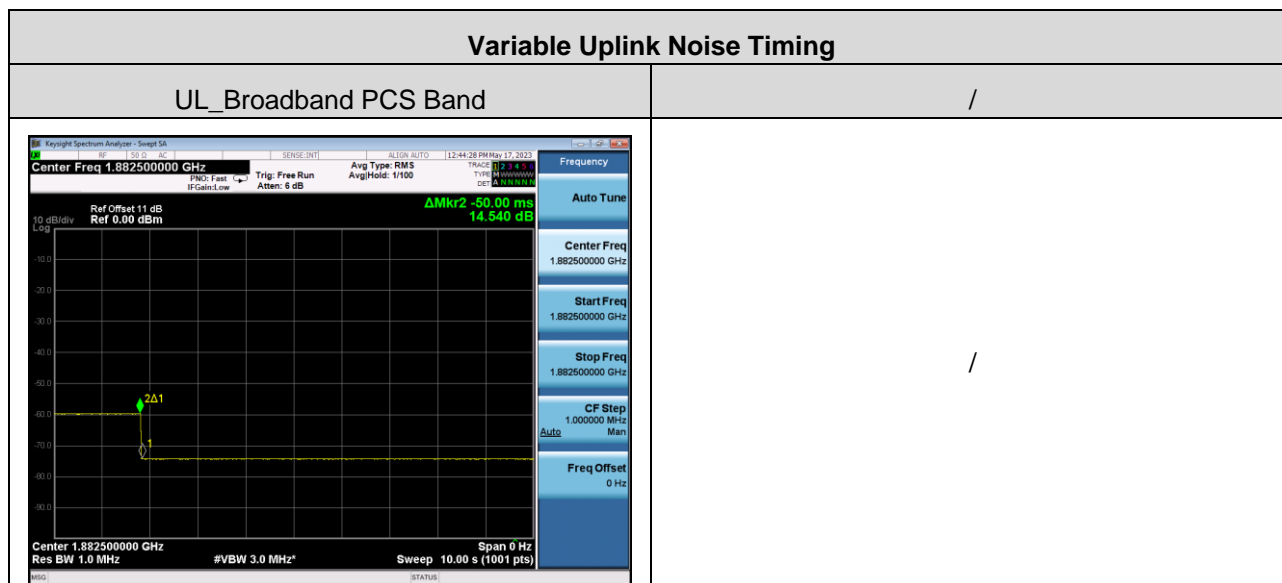


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8 Uplink inactivity

Uplink Inactivity						
Path	Band	Time (s)	limit (s)	Noise Level** (dBm/MHz)	Limit (dBm/MHz)	Verdict
UL	Lower 700MHz	246.1	≤300	-75.84	≤-70	PASS
	Upper 700MHz	252.1	≤300	-75.25	≤-70	PASS
	Cellular	257.7	≤300	-75.39	≤-70	PASS
	AWS-1	282.8	≤300	-74.33	≤-70	PASS
	Broadband PCS	273.2	≤300	-73.33	≤-70	PASS
Remark: **: The EUT operated in "Transmit Power Off Mode" after uplink inactivity, so refer to clause 7 Noise limit for more details for Noise Level plots.						

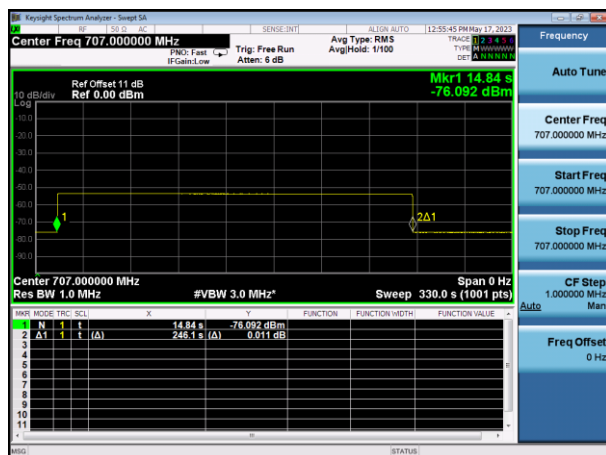


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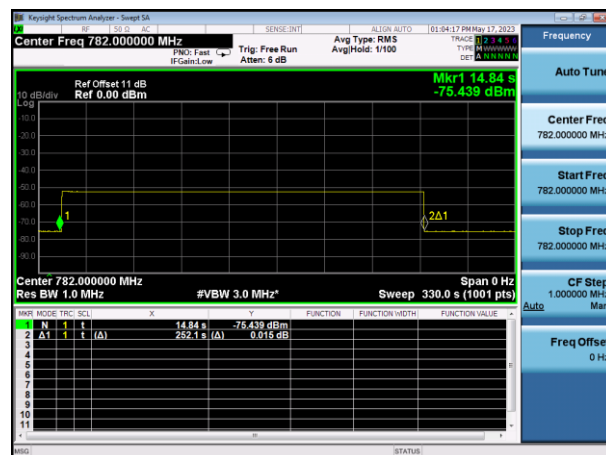
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Uplink Inactivity Timing

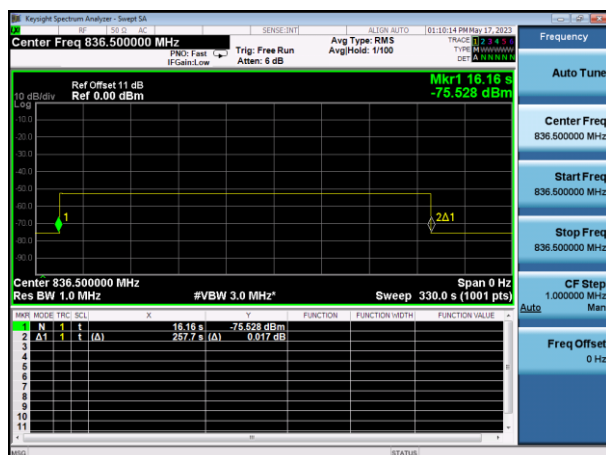
UL_Lower 700MHz Band



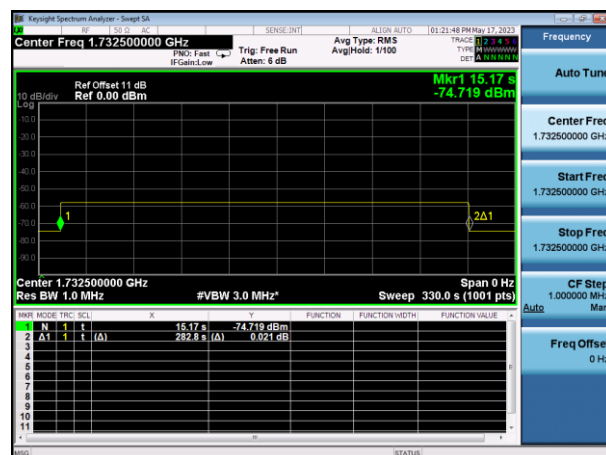
UL_Upper 700MHz Band



UL_Cellular Band



UL_AWS-1 Band

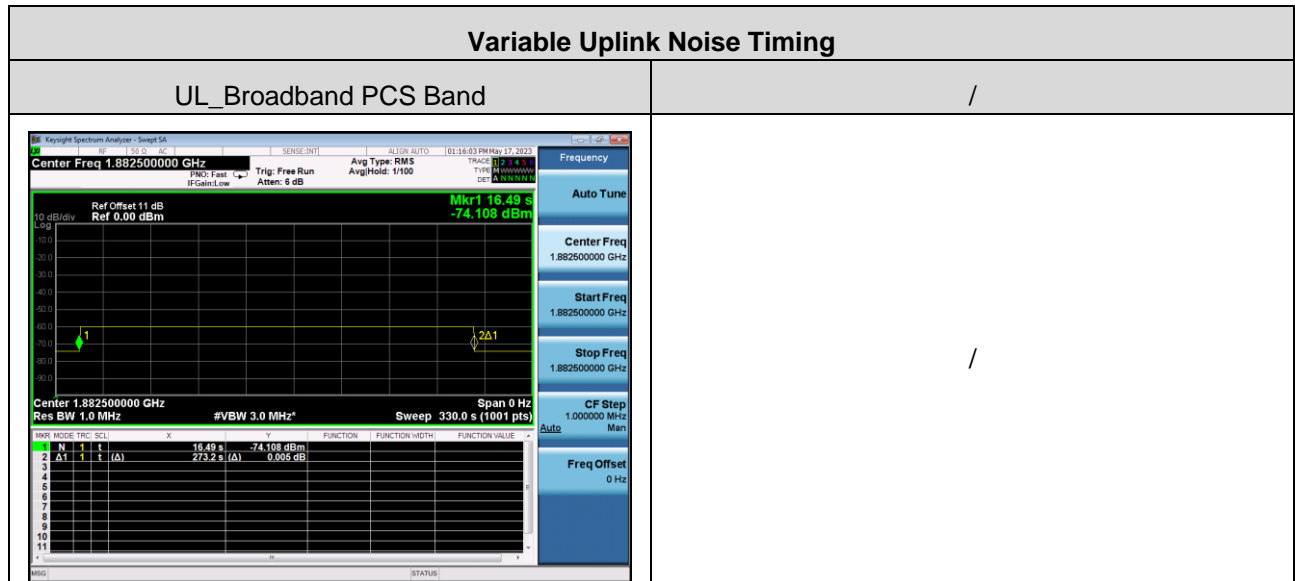


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9 Variable booster gain

Variable Gain								
Path	Band	RSSI (dBm)	P _{in} (dBm)	P _{out} (dBm)	Gain (dB)	MSCL (dB)	Limit (dB)	Verdict
UL	Lower 700MHz	-90	-49	13.1	62.1	23.9	≤63.49	PASS
		-80	-49	13.1	62.1		≤63.49	PASS
		-65	-49	3.4	52.4		≤54.9	PASS
		-61	-49	-3.7	45.3		≤50.9	PASS
		-54	-49	-8.4	40.6		≤43.9	PASS
		-43	-49	-21.4	27.6		≤32.9	PASS
	Upper 700MHz	-90	-49	13.1	62.1	24.8	≤64.36	PASS
		-80	-49	13.1	62.1		≤64.36	PASS
		-72	-49	11.7	60.7		≤62.8	PASS
		-67	-49	6.4	55.4		≤57.8	PASS
		-61	-49	0.2	49.2		≤51.8	PASS
		-46	-49	-15.7	33.3		≤36.8	PASS
	Cellular	-90	-51	12.6	63.6	25.3	≤64.95	PASS
		-80	-51	12.6	63.6		≤64.95	PASS
		-70	-51	9.7	60.7		≤61.3	PASS
		-65	-51	4.1	55.1		≤56.3	PASS
		-58	-51	-4.4	46.6		≤49.3	PASS
		-41	-51	-20.9	30.1		≤32.3	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	-90	-58	12.1	70.1	31.7	≤71.27	PASS
		-80	-58	12.1	70.1		≤71.27	PASS
		-71	-58	8.7	66.7		≤68.7	PASS
		-68	-58	5.4	63.4		≤65.7	PASS
		-55	-58	-6.7	51.3		≤52.7	PASS
		-38	-58	-25.8	32.2		≤35.7	PASS
	Broadband PCS	-90	-58	13.1	71.1	32.4	≤71.99	PASS
		-80	-58	13.1	71.1		≤71.99	PASS
		-70	-58	7.9	65.9		≤68.4	PASS
		-63	-58	1.4	59.4		≤61.4	PASS
		-56	-58	-7.4	50.6		≤54.4	PASS
		-39	-58	-25.9	32.1		≤37.4	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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3. According to KDB 935210 D03 v04r04 appendix D figurer D2, the RSSI-dependent region can be calculated:

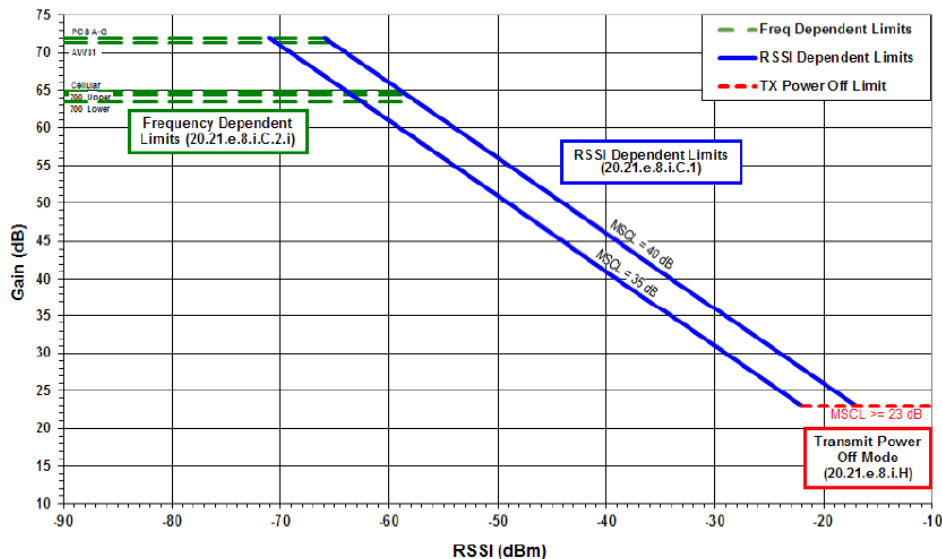
for Lower 700MHz, the RSSI-dependent region is -73.59 dBm to -33.10 dBm

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



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Variable Uplink Gain Timing				
Path	Band	Time (s)	Limit (s)	Verdict
UL	Lower 700MHz	0.22	≤3	PASS
	Upper 700MHz	0.30	≤3	PASS
	Cellular	0.28	≤3	PASS
	AWS-1	0.33	≤3	PASS
	Broadband PCS	0.46	≤3	PASS



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10 Occupied bandwidth

Occupied Bandwidth				
Path	Band	Center Frequency (MHz)	Input Signal	Verdict
DL	700MHz	742	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
	Cellular	881.5	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
	AWS-1	2132.5	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
	Broadband PCS	1962.5	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
UL	Lower 700MHz	707	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
	Upper 700MHz	782	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
	Cellular	836.5	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
	AWS-1	1732.5	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
	Broadband PCS	1882.5	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS



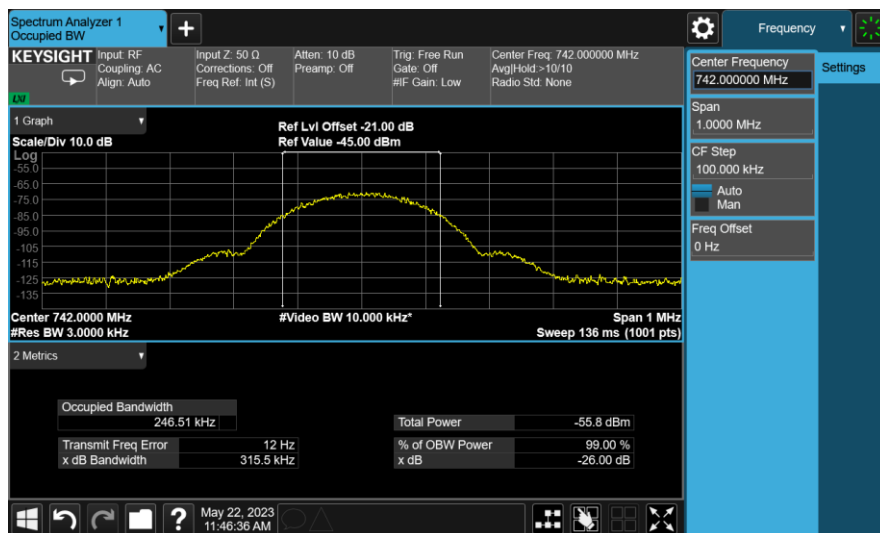
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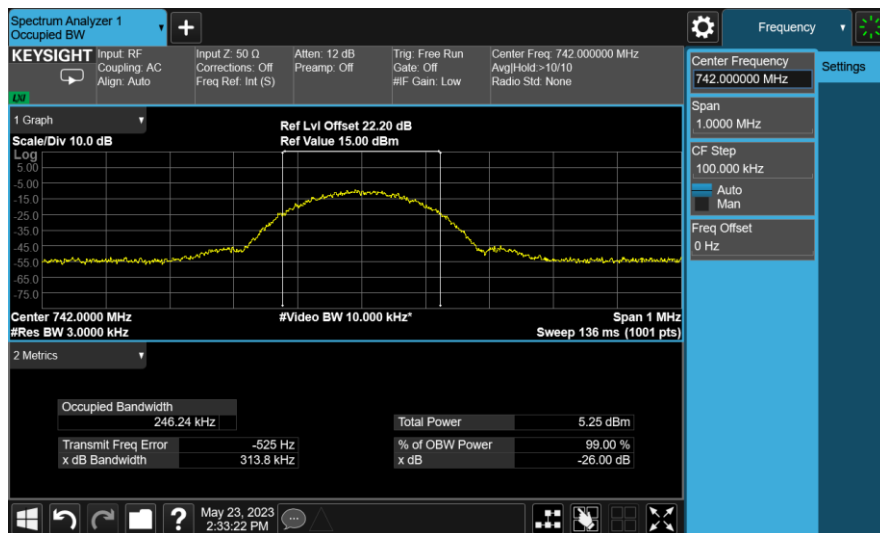
Occupied bandwidth

DL_700MHz Band_GSM signal type

Input



Output

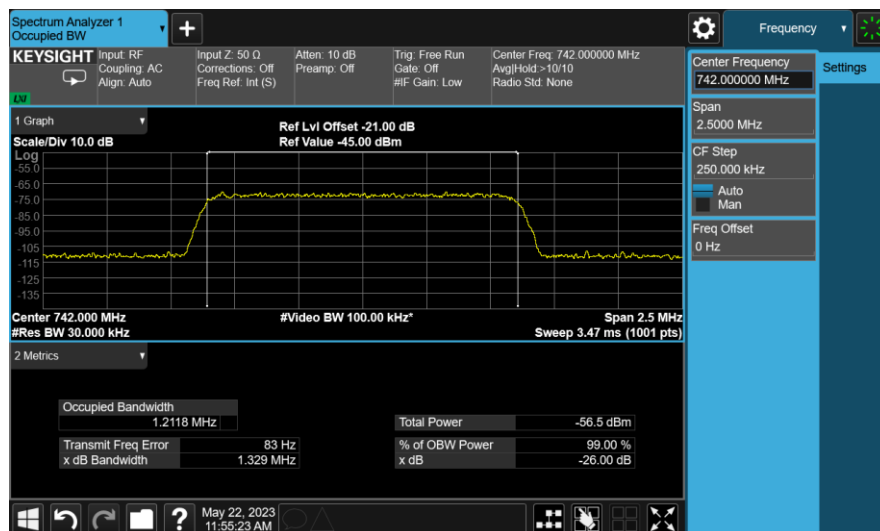


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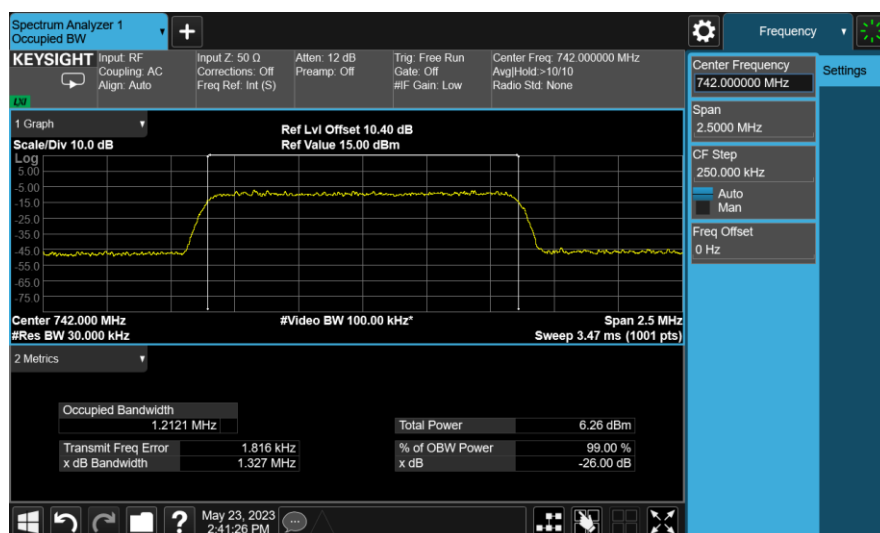
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DL_700MHz Band_1.25MHz AWGN signal type

Input



Output



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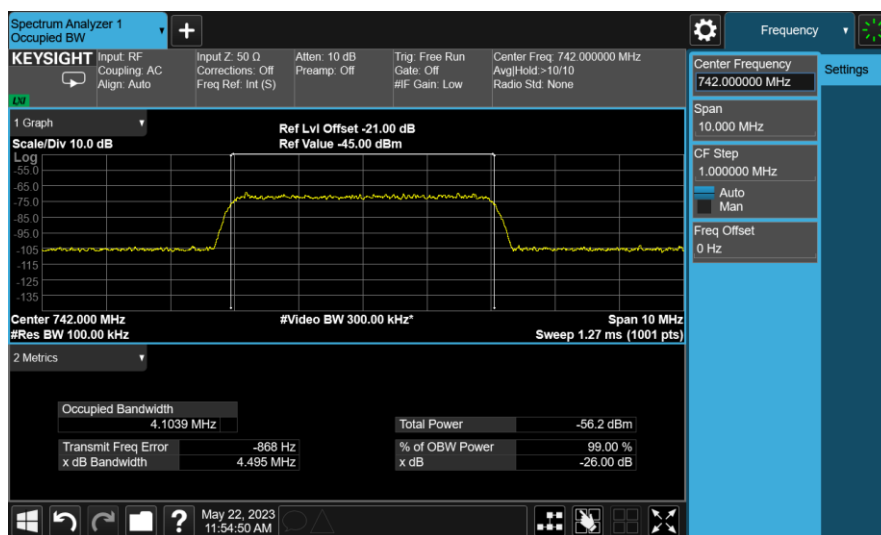
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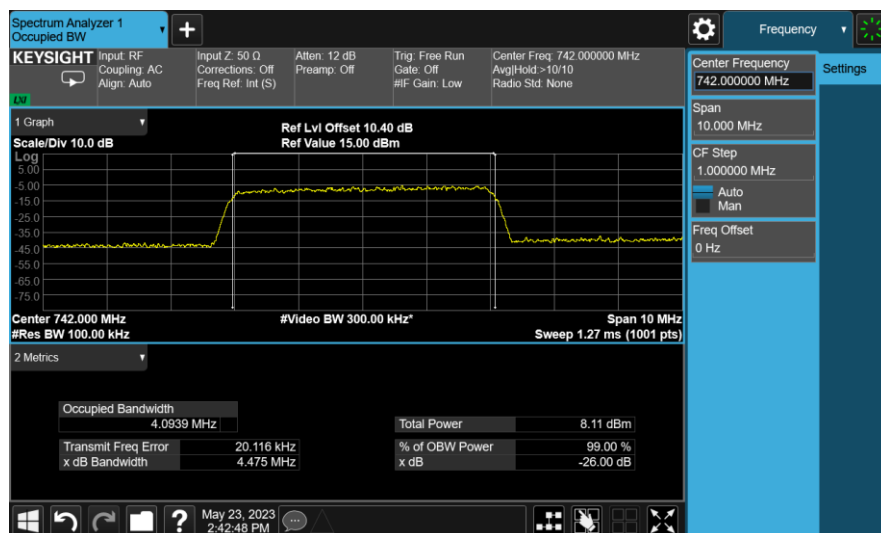
Occupied bandwidth

DL_700MHz Band_4.1MHz AWGN signal type

Input



Output

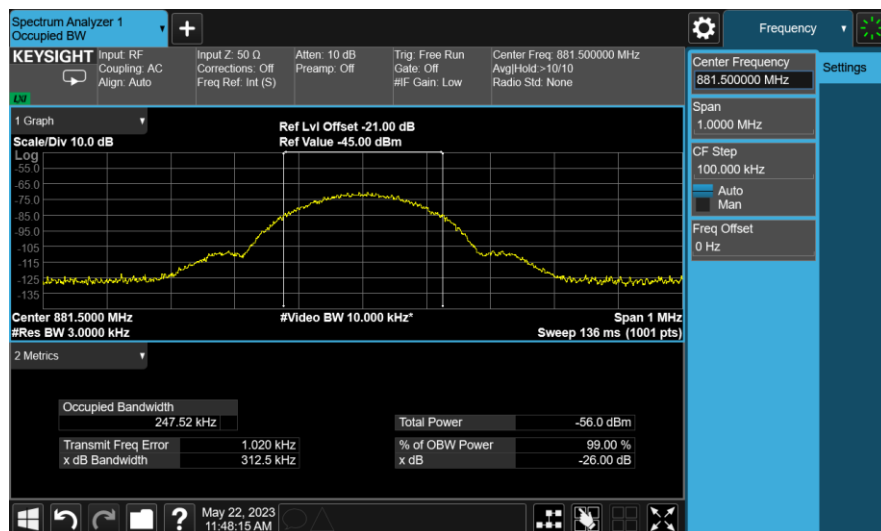


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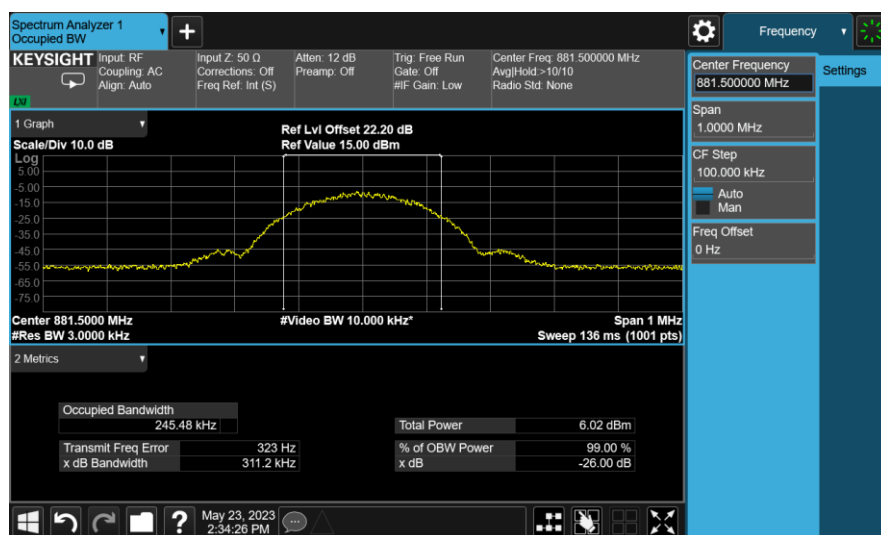
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DL_Cellular Band_GSM signal type

Input



Output



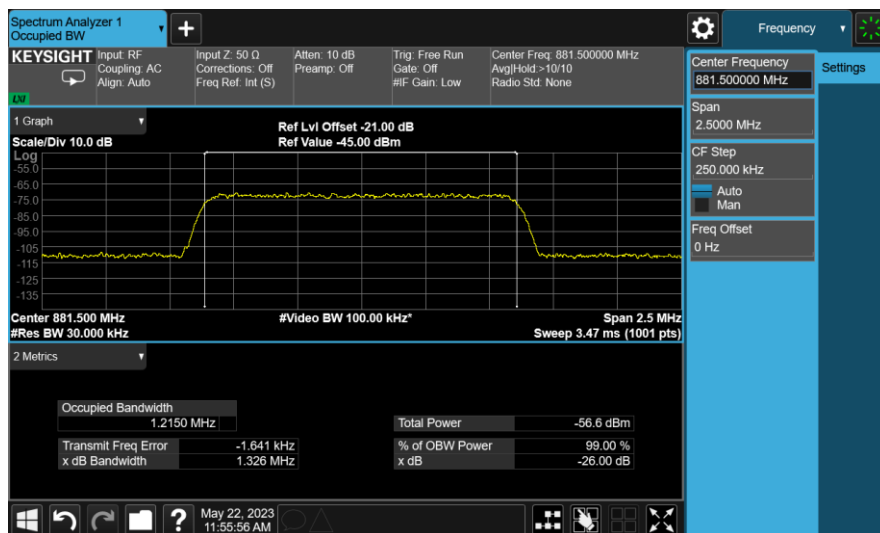
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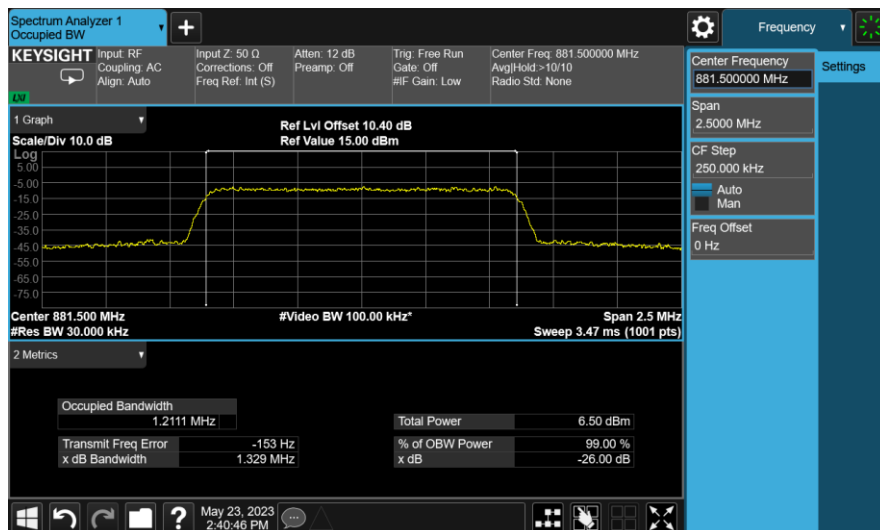
Occupied bandwidth

DL_Cellular Band_1.25MHz AWGN signal type

Input



Output



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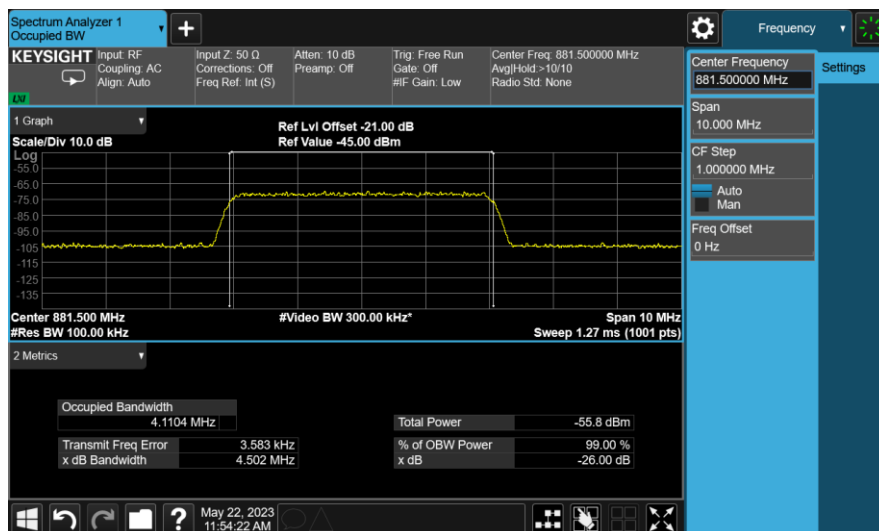
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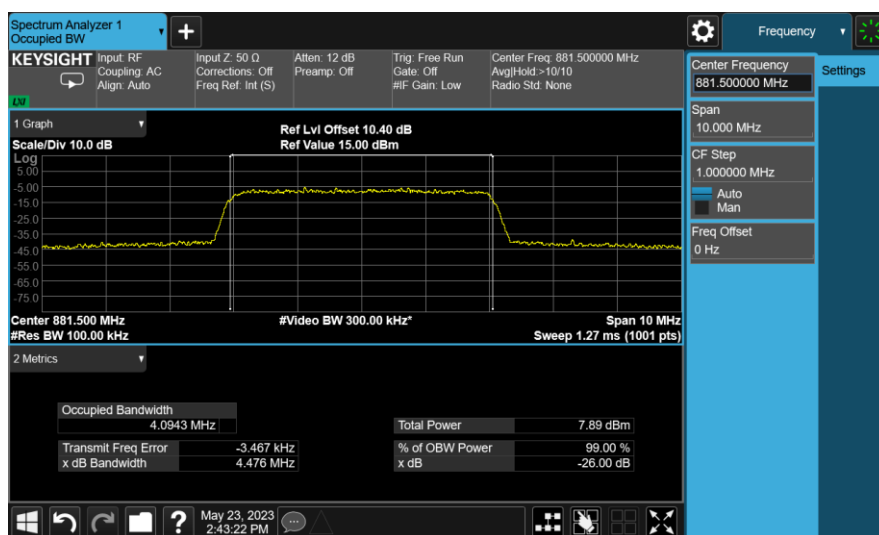
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DL_Cellular Band 4.1MHz AWGN signal type

Input



Output



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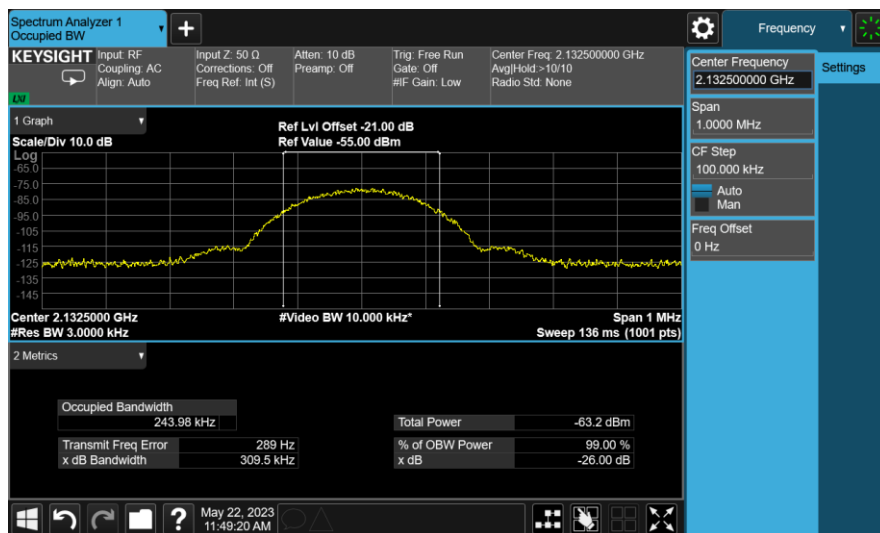
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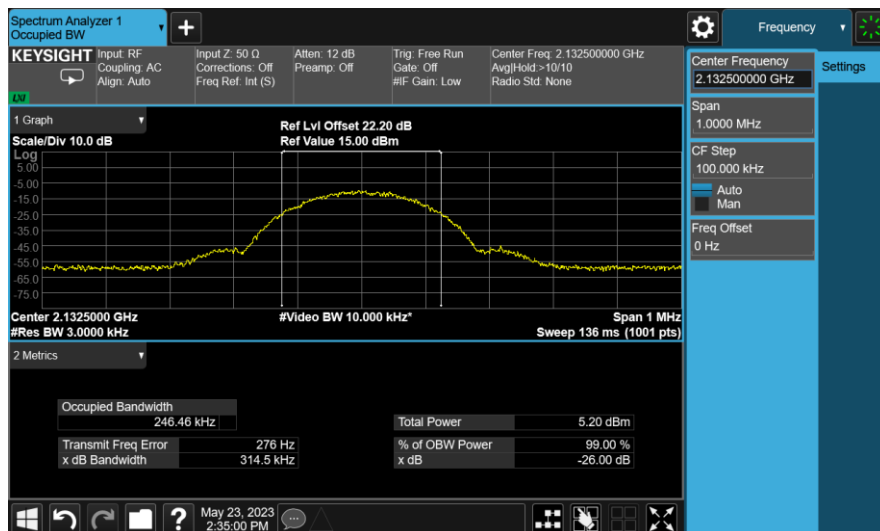
Occupied bandwidth

DL_AWS-1 Band_GSM signal type

Input



Output

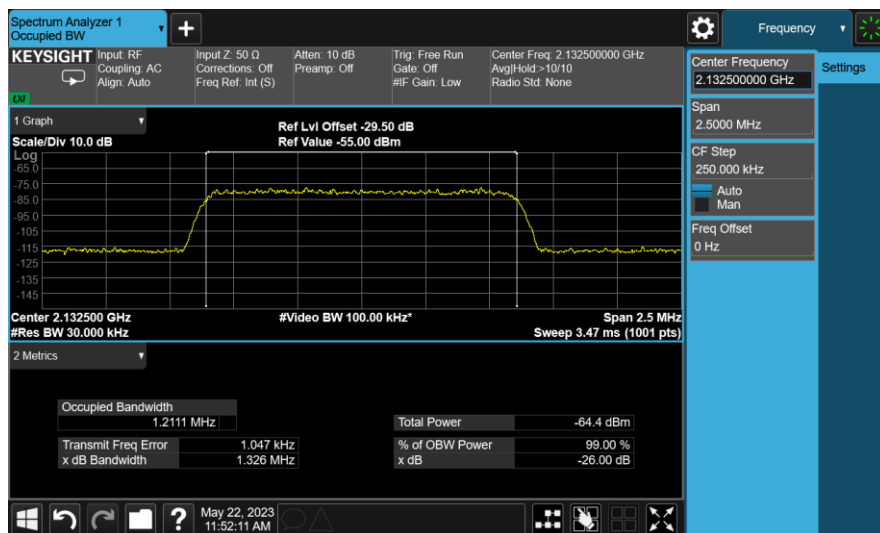


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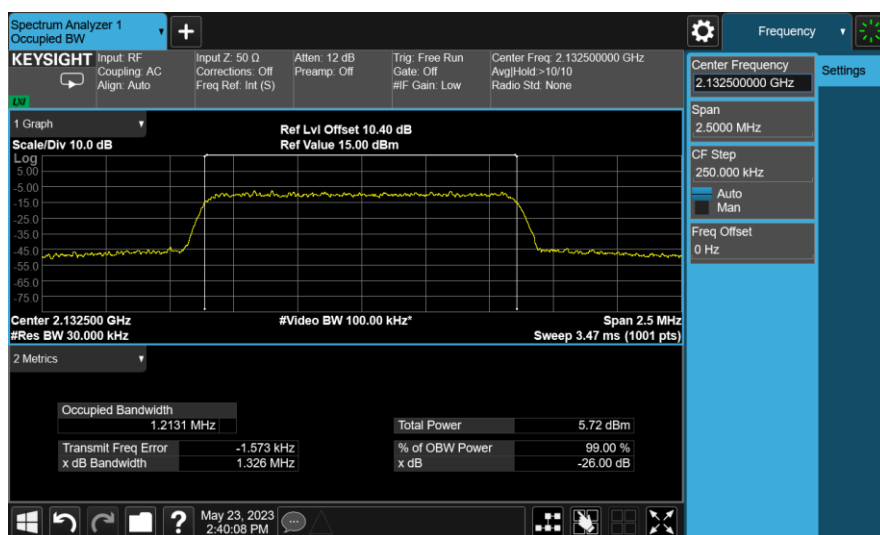
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DL_AWS-1 Band_1.25MHz AWGN signal type

Input



Output



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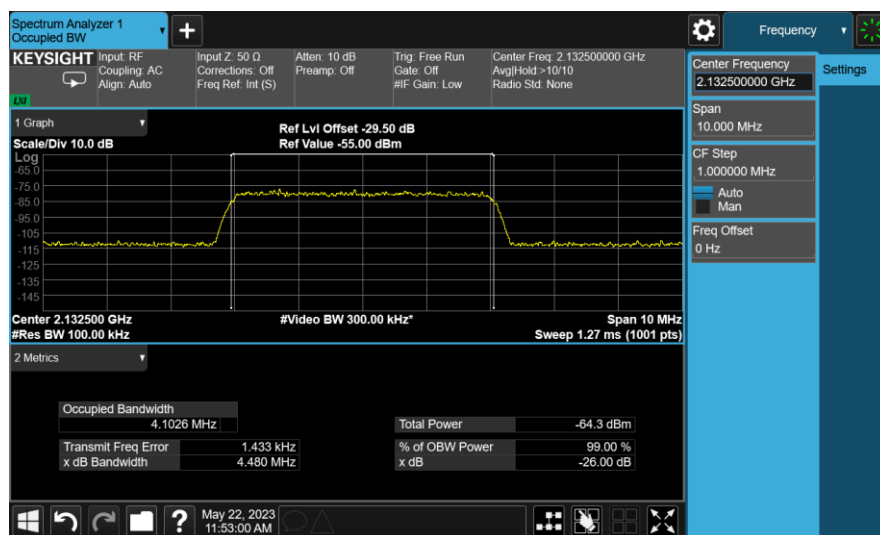
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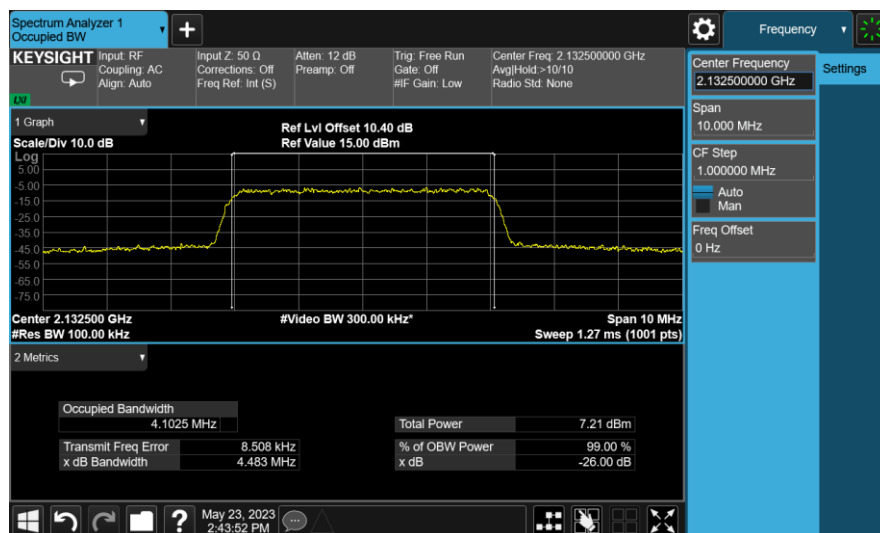
Occupied bandwidth

DL_AWS-1 Band_4.1MHz AWGN signal type

Input



Output

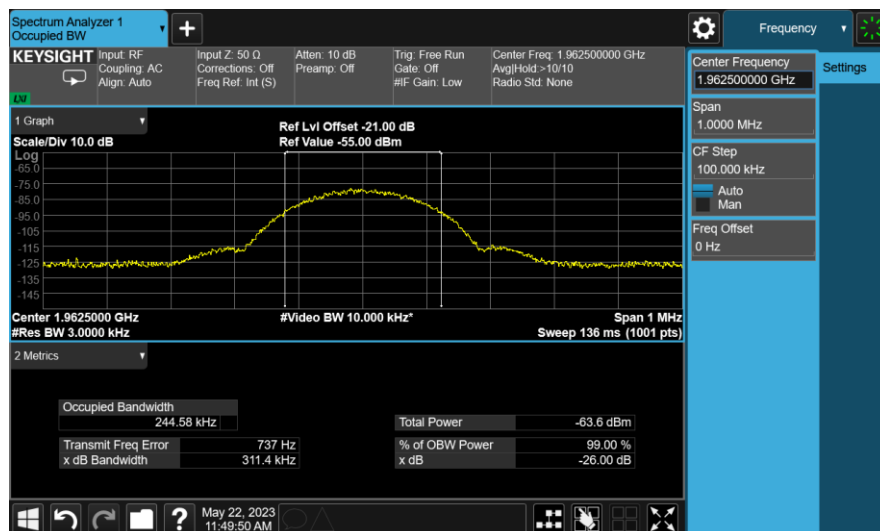


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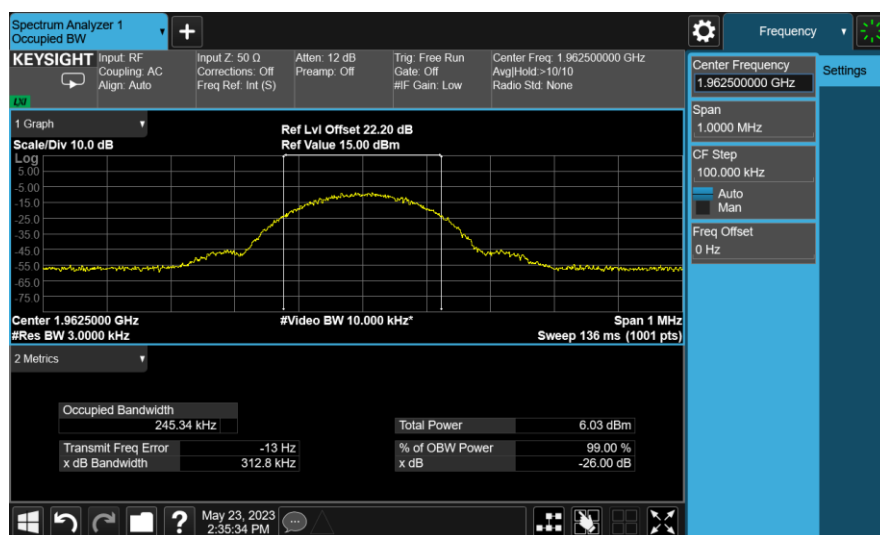
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DL_Broadband Band_GSM signal type

Input



Output



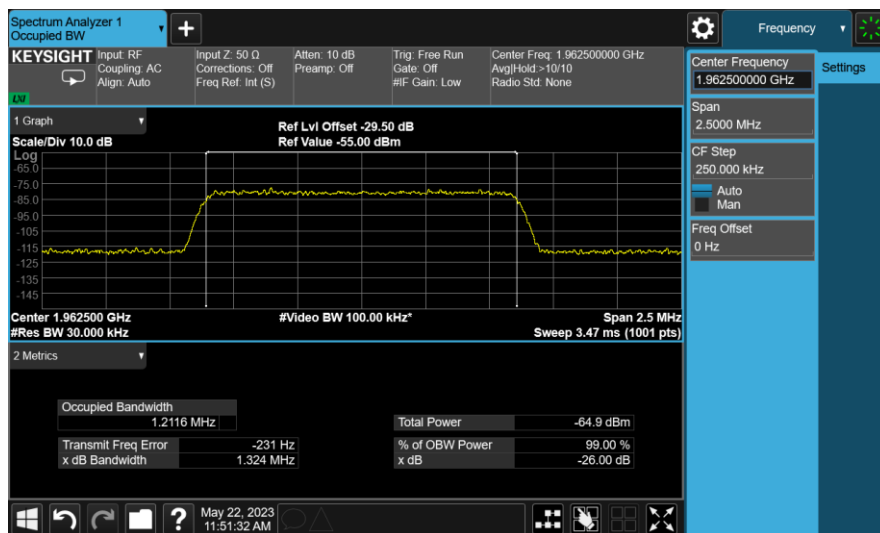
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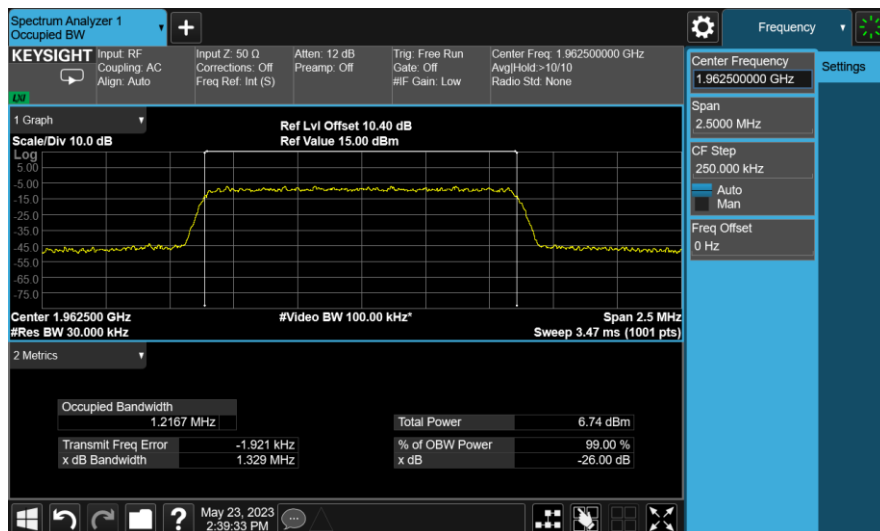
Occupied bandwidth

DL_Broadband Band_1.25MHz AWGN signal type

Input



Output

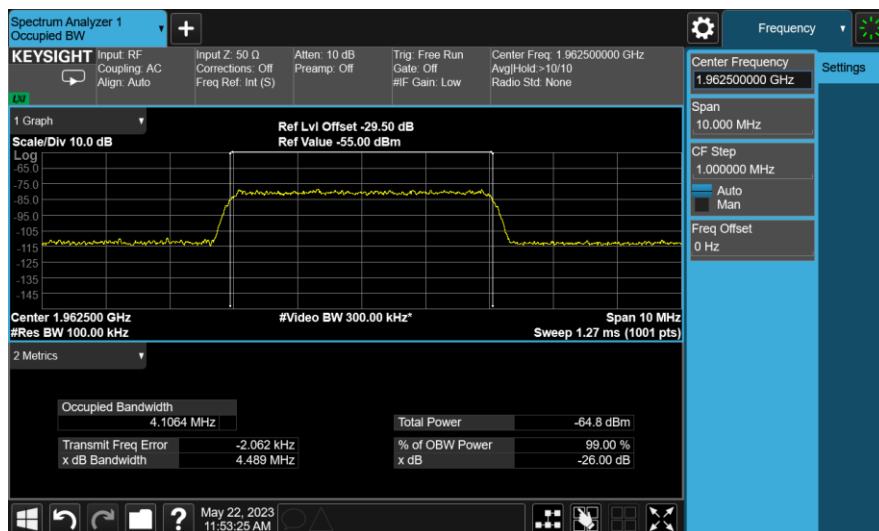


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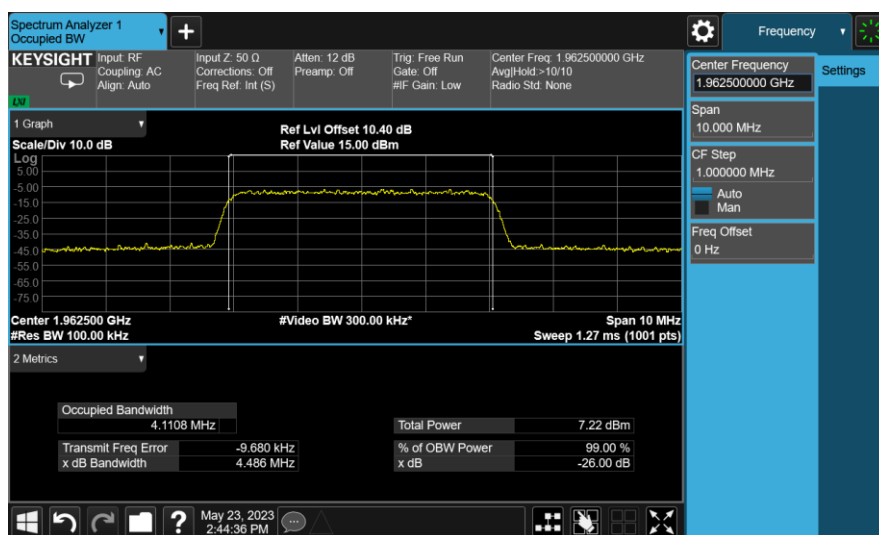
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DL_Broadband Band 4.1MHz AWGN signal type

Input



Output



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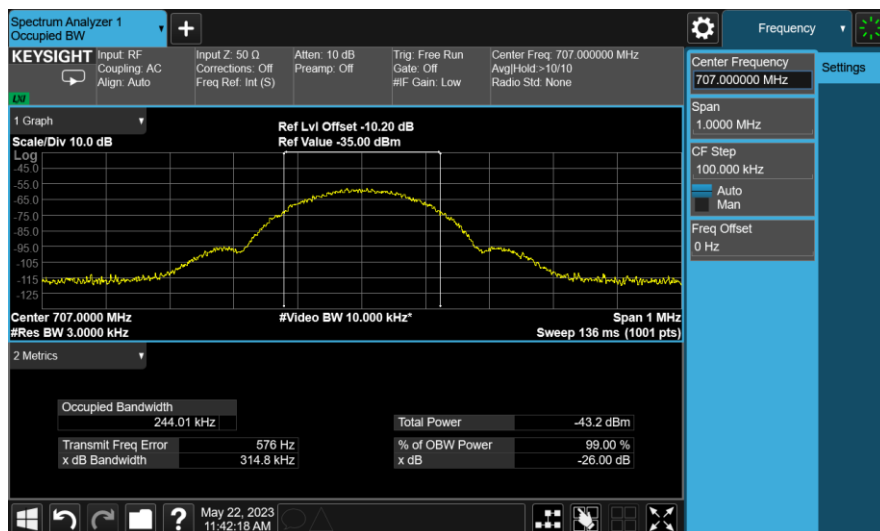
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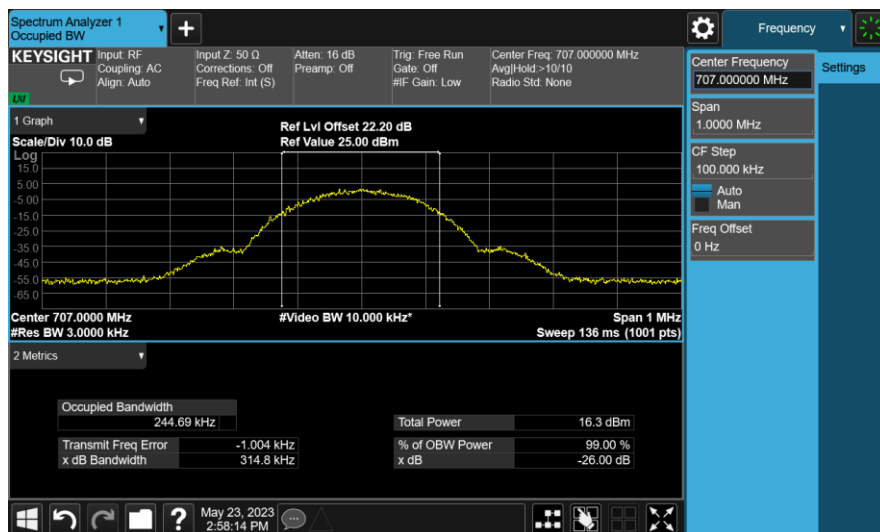
Occupied bandwidth

UL_Lower 700MHz Band_GSM signal type

Input



Output

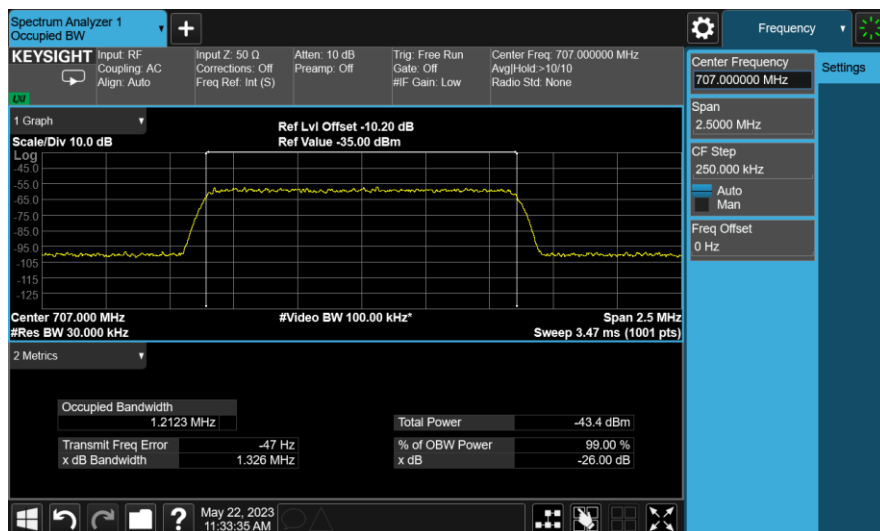


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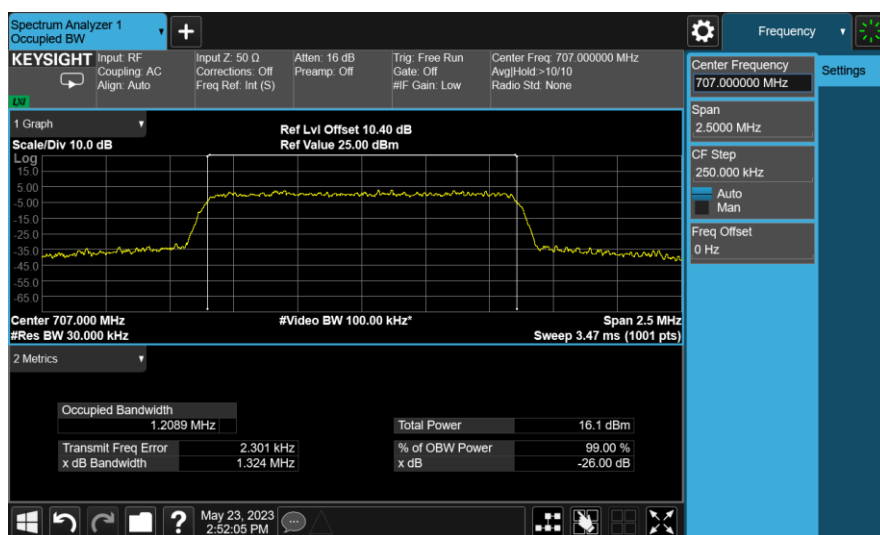
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UL Lower 700MHz Band 1.25MHz AWGN signal type

Input



Output



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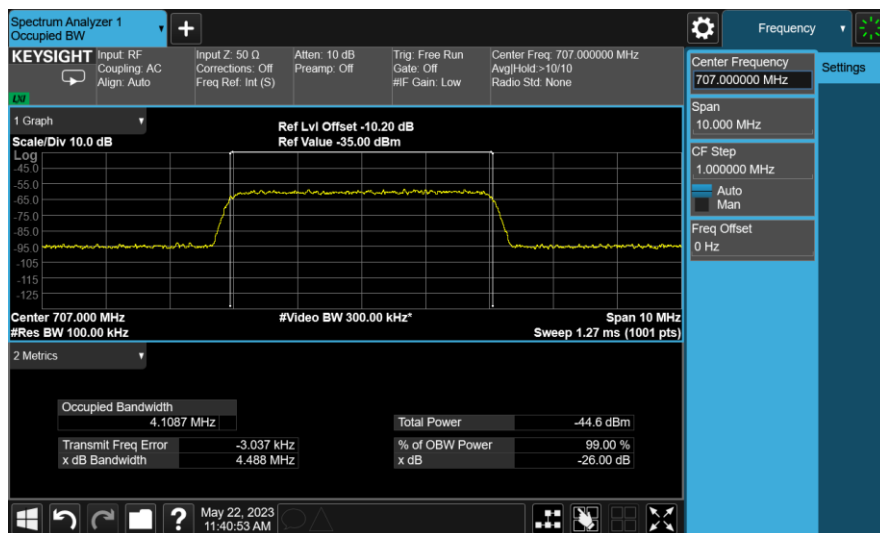
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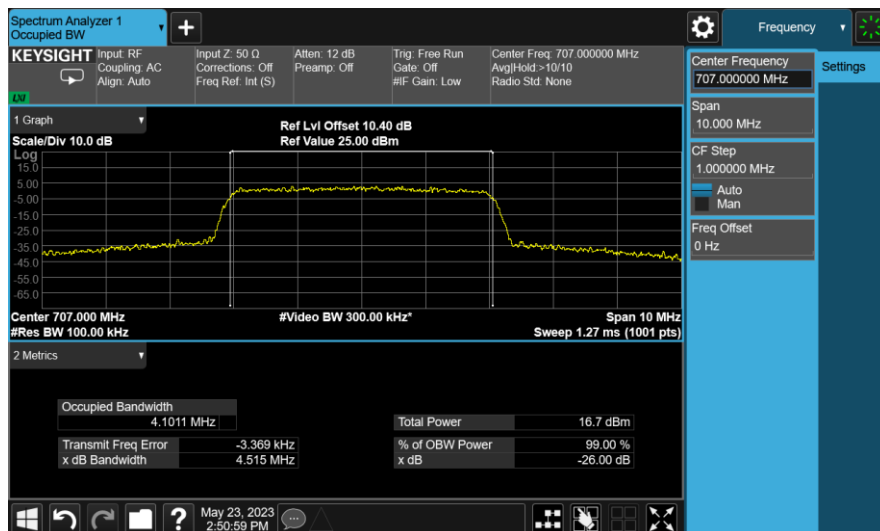
Occupied bandwidth

UL_Lower 700MHz Band_4.1MHz AWGN signal type

Input



Output



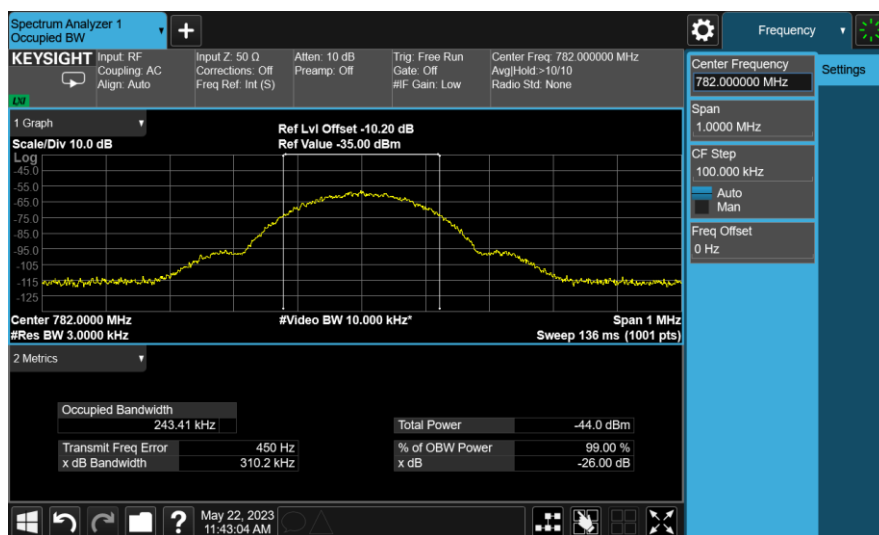
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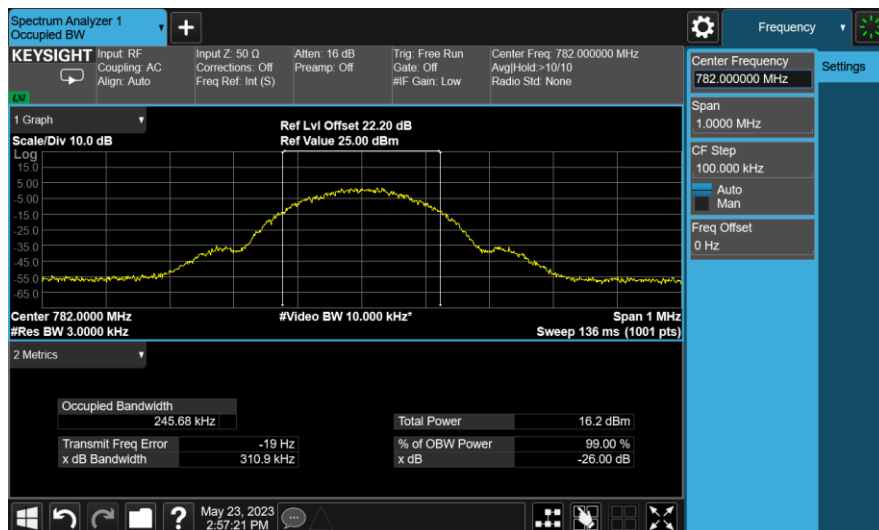
Occupied bandwidth

UL_Upper 700MHz Band_GSM signal type

Input



Output



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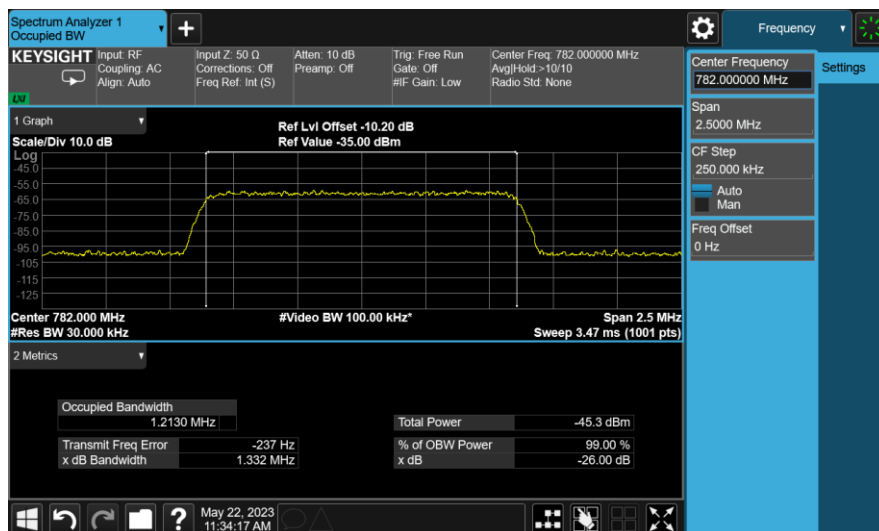
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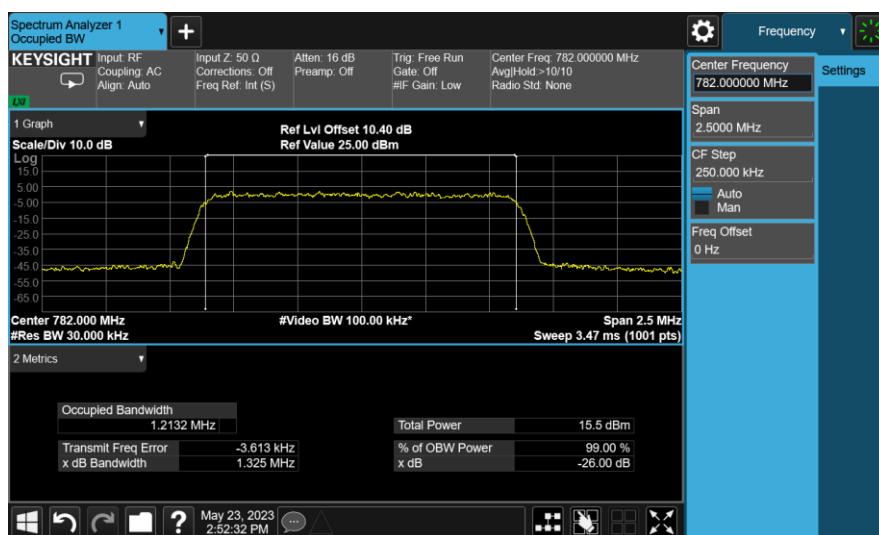
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UL_Upper 700MHz Band_1.25MHz AWGN signal type

Input



Output



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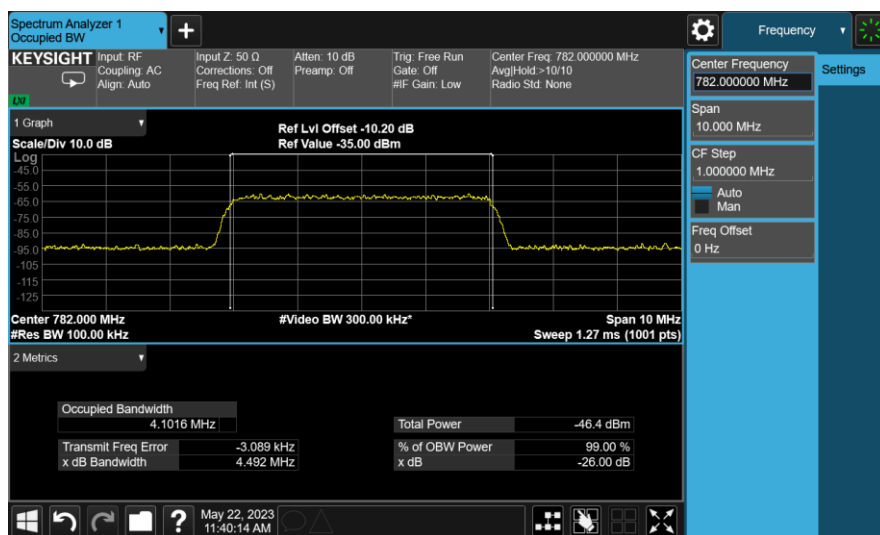
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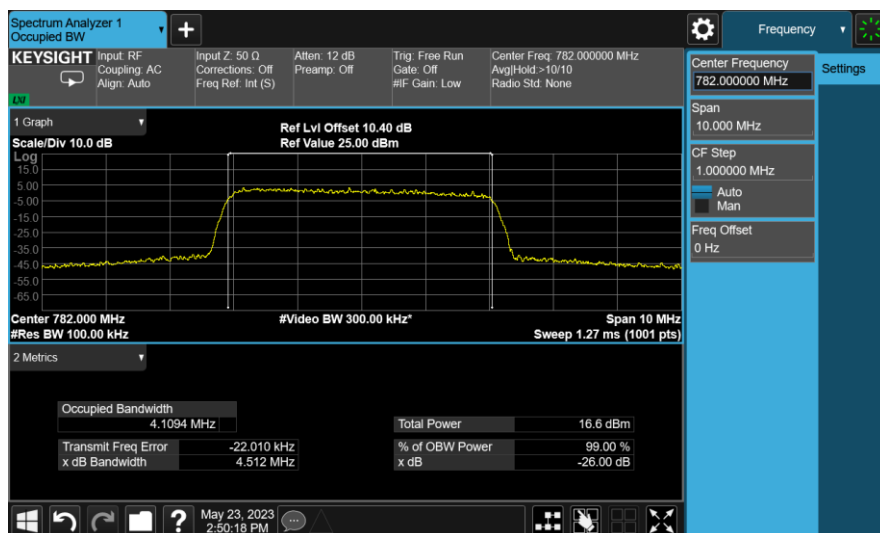
Occupied bandwidth

UL_Upper 700MHz Band_4.1MHz AWGN signal type

Input



Output

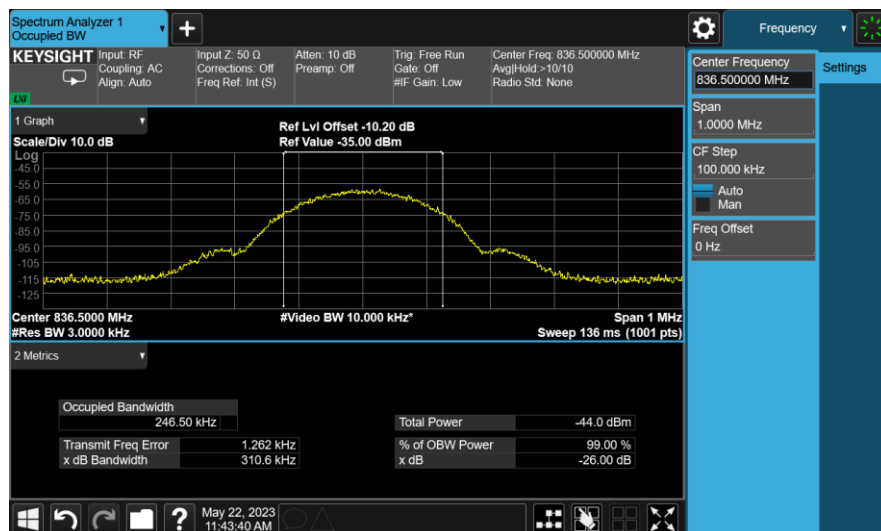


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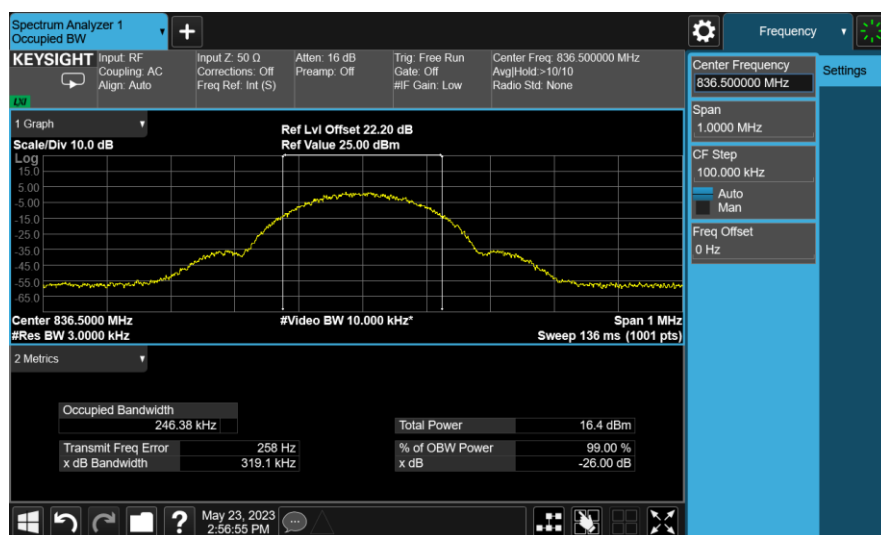
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UL_Cellular Band_GSM signal type

Input



Output



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