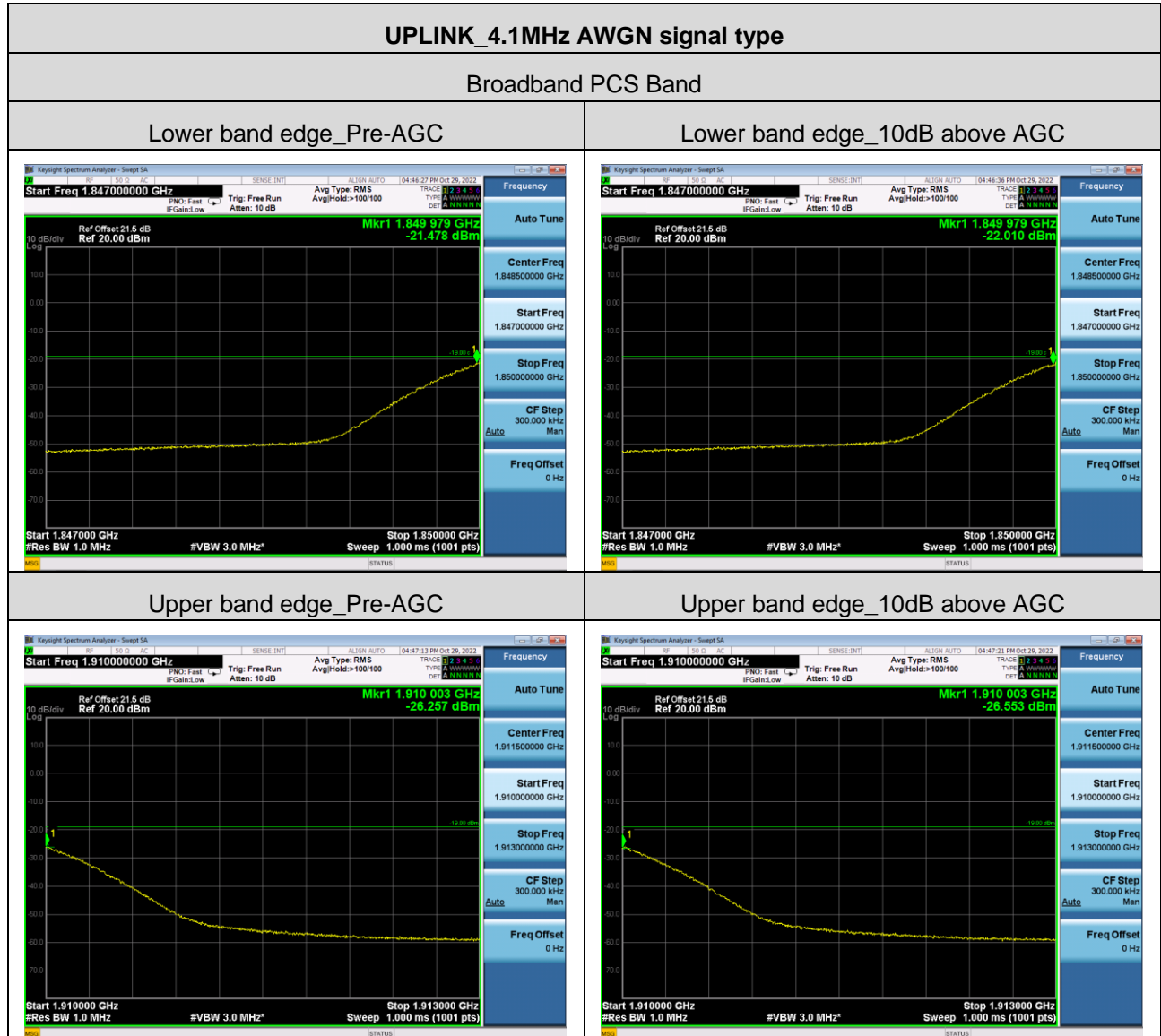


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Remark:
20.21(e)(8)(i)(E) Out of Band Emission Limits:

Booster out of band emissions (OOBE) shall be at least 6 dB below the FCC's mobile emission limits for the supported bands of operation.

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



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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.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

(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.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

So,

The limit = $\{P - [76 + 10 \log (P)]\} - 6\text{dB} = -52\text{dBm}$

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.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

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 $43 + 10 \log_{10} (P)$ dB.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

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.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

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.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$



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6 Conducted spurious emissions

Conducted spurious emissions								
Path	Band	Input Signal		Frequency Range (MHz)	RBW	Worst Test Level (dBm)	Limit (dBm)	Verdict
DOWNLINK	700MHz	AWGN	Pre-AGC	0.009-30	100kHz	-63.2	≤-19	PASS
				30-727.9	100kHz	-56.7		PASS
				756.1-1000	100kHz	-61.3		PASS
				1000-7560	1MHz	-50.9		PASS
	Upper 700MHz	AWGN	Pre-AGC	763-775	6.2kHz	-84.3	≤-41	PASS
				793-805	6.2kHz	-79.5		PASS
	Cellular	AWGN	Pre-AGC	0.009-30	100kHz	-56.7	≤-19	PASS
				30-868.9	100kHz	-52.3		PASS
				894.1-1000	100kHz	-61.3		PASS
				1000-8940	1MHz	-47.9		PASS
	AWS-1	AWGN	Pre-AGC	0.009-30	100kHz	-66.6	≤-19	PASS
				30-1000	100kHz	-49.3		PASS
				1000-2109	1MHz	-52.1		PASS
				2156-21550	1MHz	-47.6		PASS
	Broadband PCS	AWGN	Pre-AGC	0.009-30	100kHz	-58.8	≤-19	PASS
				30-1000	100kHz	-60.3		PASS
				1000-1929	1MHz	-55.7		PASS
				1991-19900	1MHz	-48.6		PASS



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Conducted spurious emissions							
Path	Band	Input Signal		Frequency Range (MHz)	RBW	Worst Test Level (dBm)	Verdict
UPLINK	Lower 700MHz	AWGN	Pre-AGC	0.009-30	100kHz	-59.4	PASS
				30-697.9	100kHz	-52.2	PASS
				716.1-1000	100kHz	-56.7	PASS
				1000-7160	1MHz	-44.6	PASS
	Upper 700MHz	AWGN	Pre-AGC	0.009-30	100kHz	-61.3	PASS
				30-776.9	100kHz	-56.3	PASS
				787.1-1000	100kHz	-55.9	PASS
				1000-7870	1MHz	-46.1	PASS
				763-775	6.2kHz	-77.7	PASS
				793-805	6.2kHz	-69.4	PASS
	Cellular	AWGN	Pre-AGC	0.009-30	100kHz	-58.4	PASS
				30-823.9	100kHz	-62.1	PASS
				849.1-1000	100kHz	-50.6	PASS
				1000-8490	1MHz	-42.7	PASS
	AWS-1	AWGN	Pre-AGC	0.009-30	100kHz	-55.4	PASS
				30-1000	100kHz	-60.3	PASS
				1000-1709	1MHz	-51.3	PASS
				1756-17550	1MHz	-44.6	PASS
	Broadband PCS	AWGN	Pre-AGC	0.009-30	100kHz	-62.3	PASS
				30-1000	100kHz	-56.9	PASS
				1000-1849	1MHz	-60.1	PASS
				1911-19100	1MHz	-43.0	PASS

Remark:
20.21(e)(8)(i)(E) Out of Band Emission Limits:
Booster out of band emissions (OOBE) shall be at least 6 dB below the FCC's mobile emission limits for the supported bands of operation.



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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.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

(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.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

So,

The limit = $\{P - [76 + 10 \log (P)]\} - 6\text{dB} = -52\text{dBm}$

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.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

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 $43 + 10 \log_{10} (P)$ dB.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

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.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

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.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$



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7 Noise limit

Maximum transmitter Noise Power Level					
Path	Band	EUT Status	Noise Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
DOWNLINK	700MHz	Power On	-51.3	≤-45.51	PASS
		Power Off	-76.4	≤-70	PASS
	Cellular	Power On	-56.2	≤-44.05	PASS
		Power Off	-81.4	≤-70	PASS
	AWS-1	Power On	-46.2	≤-37.73	PASS
		Power Off	-77.7	≤-70	PASS
	Broadband PCS	Power On	-45.3	≤-37.02	PASS
		Power Off	-80.1	≤-70	PASS
UPLINK	Lower 700MHz	Power On	-57.8	≤-45.51	PASS
		Power Off	-79.3	≤-70	PASS
	Upper 700MHz	Power On	-49.8	≤-44.64	PASS
		Power Off	-81.3	≤-70	PASS
	Cellular	Power On	-48.6	≤-44.05	PASS
		Power Off	-80.9	≤-70	PASS
	AWS-1	Power On	-43.3	≤-37.73	PASS
		Power Off	-78.9	≤-70	PASS
	Broadband PCS	Power On	-49.1	≤-37.02	PASS
		Power Off	-80.7	≤-70	PASS



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Variable Uplink Noise Power Level					
Path	Band	RSSI (dBm)	Noise Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
UPLINK	Lower 700MHz	-90	-57.8	≤-45.51	PASS
		-80	-57.8	≤-45.51	PASS
		-70	-57.8	≤-45.51	PASS
		-60	-61.2	≤-45.51	PASS
		-55	-63.6	≤-48.00	PASS
		-42	-65.7	≤-61.00	PASS
	Upper 700MHz	-90	-49.7	≤-44.64	PASS
		-80	-49.7	≤-44.64	PASS
		-70	-49.7	≤-44.64	PASS
		-60	-53.2	≤-44.64	PASS
		-51	-55.5	≤-52.00	PASS
		-46	-63.1	≤-57.00	PASS
	Cellular	-90	-48.6	≤-44.05	PASS
		-80	-48.6	≤-44.05	PASS
		-70	-48.6	≤-44.05	PASS
		-60	-53.1	≤-44.05	PASS
		-55	-56.7	≤-48.00	PASS
		-46	-64.4	≤-57.00	PASS
	AWS-1	-80	-43.3	≤-37.73	PASS
		-70	-43.3	≤-37.73	PASS
		-62	-54.6	≤-41.00	PASS
		-60	-58.5	≤-43.00	PASS
		-41	-64.4	≤-62.00	PASS
		-38	-67.2	≤-65.00	PASS



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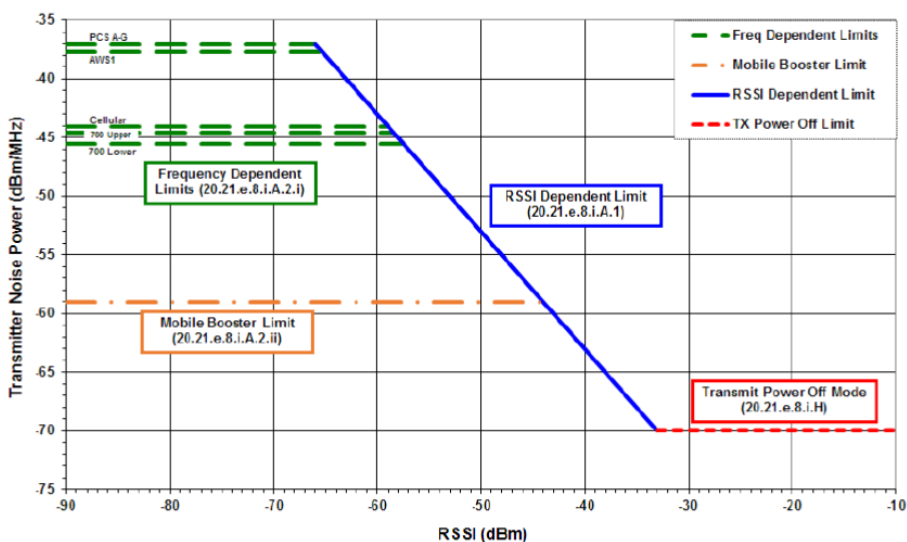
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Variable Uplink Noise Power Level					
Path	Band	RSSI (dBm)	Noise Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
UPLINK	Broadband PCS	-90	-49.1	≤ -37.02	PASS
		-80	-49.1	≤ -37.02	PASS
		-70	-50.2	≤ -37.02	PASS
		-64	-53.5	≤ -39.00	PASS
		-57	-57.3	≤ -46.00	PASS
		-42	-64.6	≤ -61.00	PASS

Remark:



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

- for Lower 700MHz, the RSSI-dependent region is -57.49 dBm to -33 dBm
- for Upper 700MHz, the RSSI-dependent region is -58.36 dBm to -33 dBm
- for Cellular, the RSSI-dependent region is -58.95 dBm to -33 dBm
- for AWS-1, the RSSI-dependent region is -65.27 dBm to -33 dBm
- for Broadband PCS, the RSSI-dependent region is -65.99 dBm to -33 dBm



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Variable Uplink Noise Timing				
Path	Band	Time (s)	Limit (s)	Verdict
UPLINK	Lower 700MHz	0.43	≤3	PASS
	Upper 700MHz	0.76	≤3	PASS
	Cellular	0.72	≤3	PASS
	AWS-1	0.53	≤3	PASS
	Broadband PCS	0.66	≤3	PASS



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8 Uplink inactivity

Uplink Inactivity					
Path	Band	Time (s)	uplink noise power (dBm/MHz)	Limit (s) dBm/MHz	Verdict
UPLINK	Lower 700MHz	291.9	-81.8	≤-70	PASS
	Upper 700MHz	287.7	-81.28	≤-70	PASS
	Cellular	289.8	-80.38	≤-70	PASS
	AWS-1	292.3	-80.7	≤-70	PASS
	Broadband PCS	295.4	-80.13	≤-70	PASS



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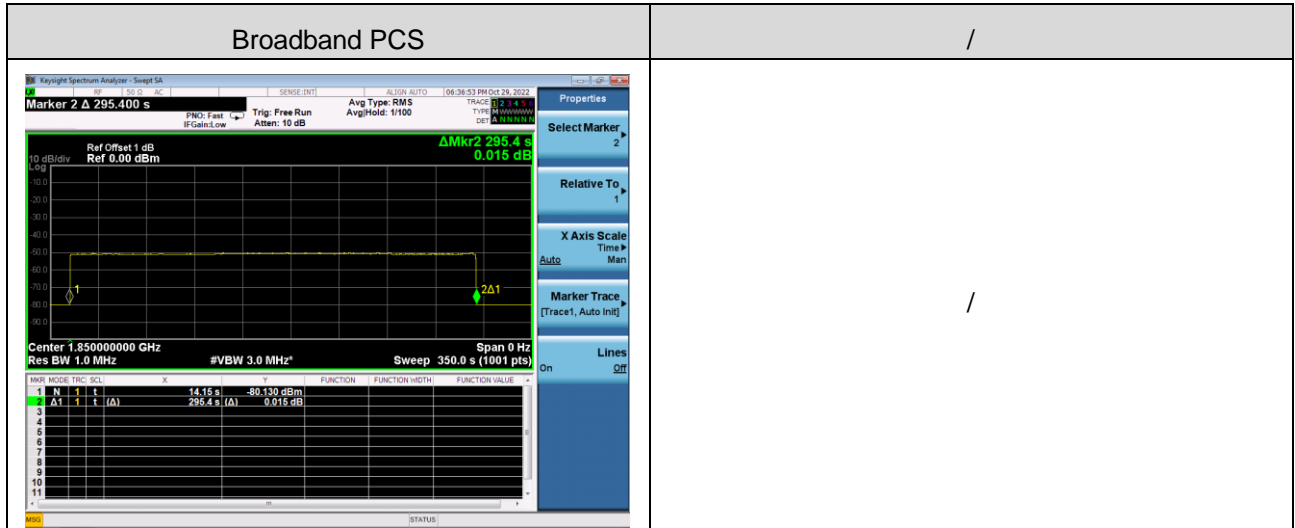
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9 Variable booster gain

Variable Gain								
Path	Band	RSSI (dBm)	P _{in} (dBm)	P _{out} (dBm)	Gain (dB)	MSCL (dB)	Limit (dB)	Verdict
UPLINK	Lower 700MHz	-71	-46.3	10.4	56.7	23.9	≤60.9	PASS
		-65	-46.3	4.6	50.9		≤54.9	PASS
		-61	-46.3	-2.0	44.3		≤50.9	PASS
		-50	-46.3	-9.8	36.5		≤39.9	PASS
		-43	-46.3	-16.2	30.1		≤32.9	PASS
		-40	-46.3	-22.8	23.5		≤29.9	PASS
	Upper 700MHz	-66	-45.5	5.1	50.6	24.8	≤56.8	PASS
		-63	-45.5	4.2	49.7		≤53.8	PASS
		-57	-45.5	-2.3	43.2		≤47.8	PASS
		-54	-45.5	-6.7	38.8		≤44.8	PASS
		-52	-45.5	-10.1	35.4		≤42.8	PASS
		-43	-45.5	-16.8	28.7		≤33.8	PASS
	Cellular	-70	-46.0	10.8	56.8	25.3	≤61.3	PASS
		-67	-46.0	5.4	51.4		≤58.3	PASS
		-66	-46.0	1.8	47.8		≤57.3	PASS
		-44	-46.0	-13.7	32.3		≤35.3	PASS
		-41	-46.0	-17.4	28.6		≤32.3	PASS
		-38	-46.0	-21.7	24.3		≤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
UPLINK	AWS-1	-67	-48.4	11.7	60.1	31.7	≤64.7	PASS
		-57	-48.4	2.7	51.1		≤54.7	PASS
		-52	-48.4	-5.2	43.2		≤49.7	PASS
		-51	-48.4	-9.7	38.7		≤48.7	PASS
		-49	-48.4	-14.8	33.6		≤46.7	PASS
		-46	-48.4	-17.6	30.8		≤43.7	PASS
	Broadband PCS	-68	-47.2	15.0	62.2	32.4	≤66.4	PASS
		-66	-47.2	11.2	58.4		≤64.4	PASS
		-65	-47.2	-3.9	43.3		≤63.4	PASS
		-51	-47.2	-6.4	40.8		≤49.4	PASS
		-43	-47.2	-10.7	36.5		≤41.4	PASS
		-38	-47.2	-13.7	33.5		≤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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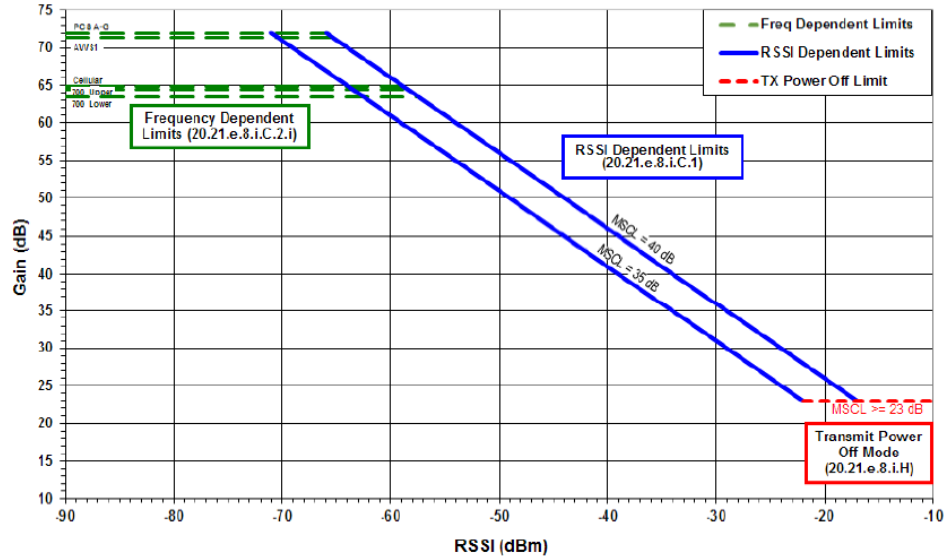
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Remark:

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



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Variable Uplink Gain Timing				
Path	Band	Time (s)	Limit (s)	Verdict
UPLINK	Lower 700MHz	0.87	≤3	PASS
	Upper 700MHz	1.03	≤3	PASS
	Cellular	0.65	≤3	PASS
	AWS-1	0.53	≤3	PASS
	Broadband PCS	0.96	≤3	PASS



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10 Occupied bandwidth

Occupied Bandwidth						
Path	Band	Center Frequency (MHz)	Input Signal	99% OBW (MHz)		Verdict
				Input	Output	
DOWNLINK	700MHz	742	GSM	0.24462	0.24691	PASS
			1.25MHz AWGN	1.2149	1.2174	PASS
			4.1MHz AWGN	4.0825	4.1003	PASS
	Cellular	881.5	GSM	0.24467	0.24432	PASS
			1.25MHz AWGN	1.2185	1.2154	PASS
			4.1MHz AWGN	4.0898	4.0993	PASS
	AWS-1	2132.5	GSM	0.24400	0.24561	PASS
			1.25MHz AWGN	1.3286	1.2151	PASS
			4.1MHz AWGN	4.1198	4.1082	PASS
	Broadband PCS	1960	GSM	0.24490	0.24576	PASS
			1.25MHz AWGN	1.2204	1.2163	PASS
			4.1MHz AWGN	4.1140	4.0889	PASS
UPLINK	Lower 700MHz	707	GSM	0.24382	0.24606	PASS
			1.25MHz AWGN	1.2168	1.2113	PASS
			4.1MHz AWGN	4.0958	4.1035	PASS
	Upper 700MHz	782	GSM	0.24373	0.24439	PASS
			1.25MHz AWGN	1.2142	1.2118	PASS
			4.1MHz AWGN	4.0973	4.0877	PASS
	Cellular	836.5	GSM	0.24544	0.24343	PASS
			1.25MHz AWGN	1.2165	1.2129	PASS
			4.1MHz AWGN	4.1079	4.0909	PASS



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Occupied Bandwidth						
Path	Band	Center Frequency (MHz)	Input Signal	99% OBW (MHz)		Verdict
				Input	Output	
UPLINK	AWS-1	1732.5	GSM	0.24297	0.24433	PASS
			1.25MHz AWGN	1.2191	1.2131	PASS
			4.1MHz AWGN	4.0844	4.0949	PASS
	Broadband PCS	1880	GSM	0.24390	0.24536	PASS
			1.25MHz AWGN	1.2176	1.2146	PASS
			4.1MHz AWGN	4.1142	4.0970	PASS



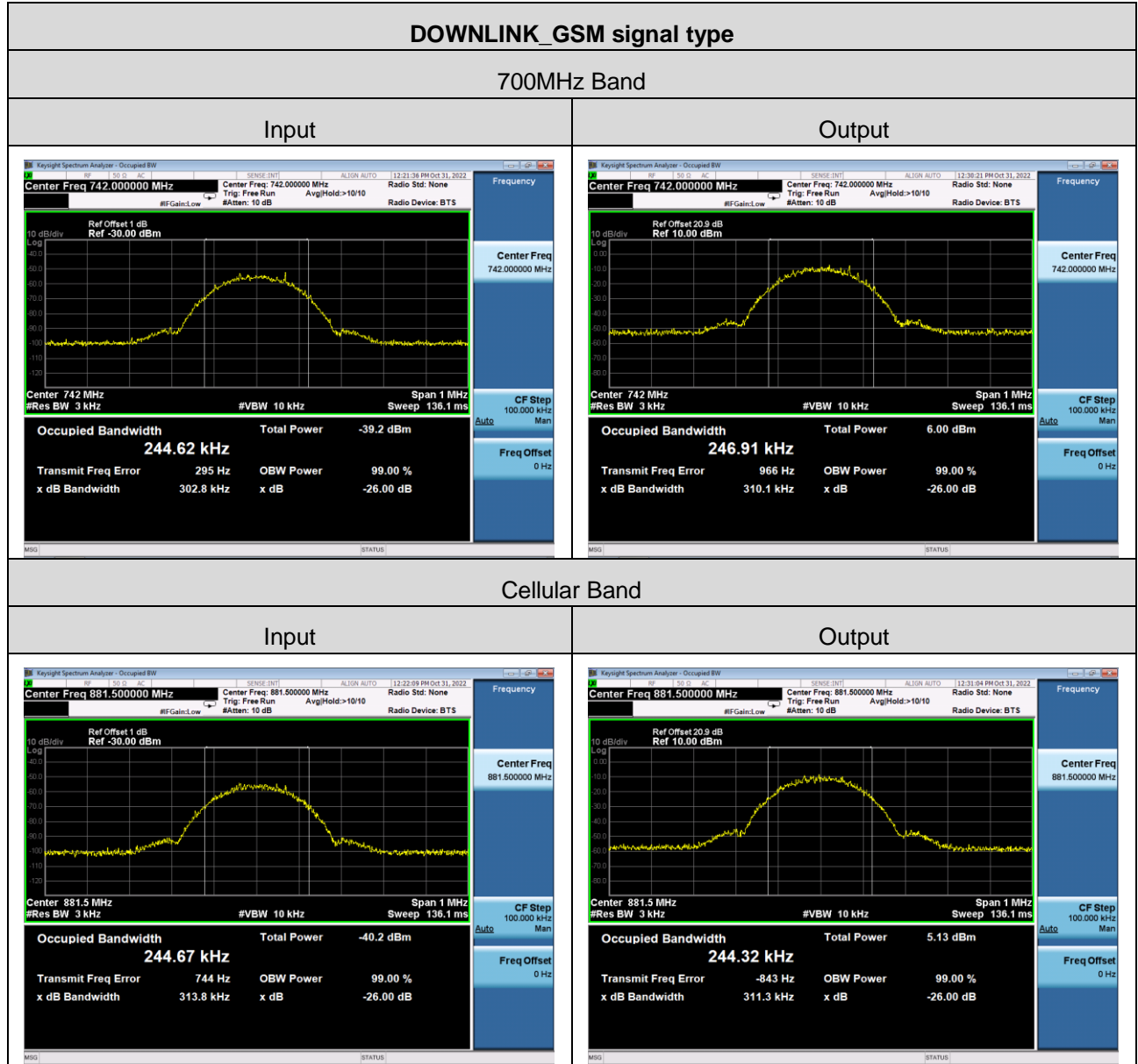
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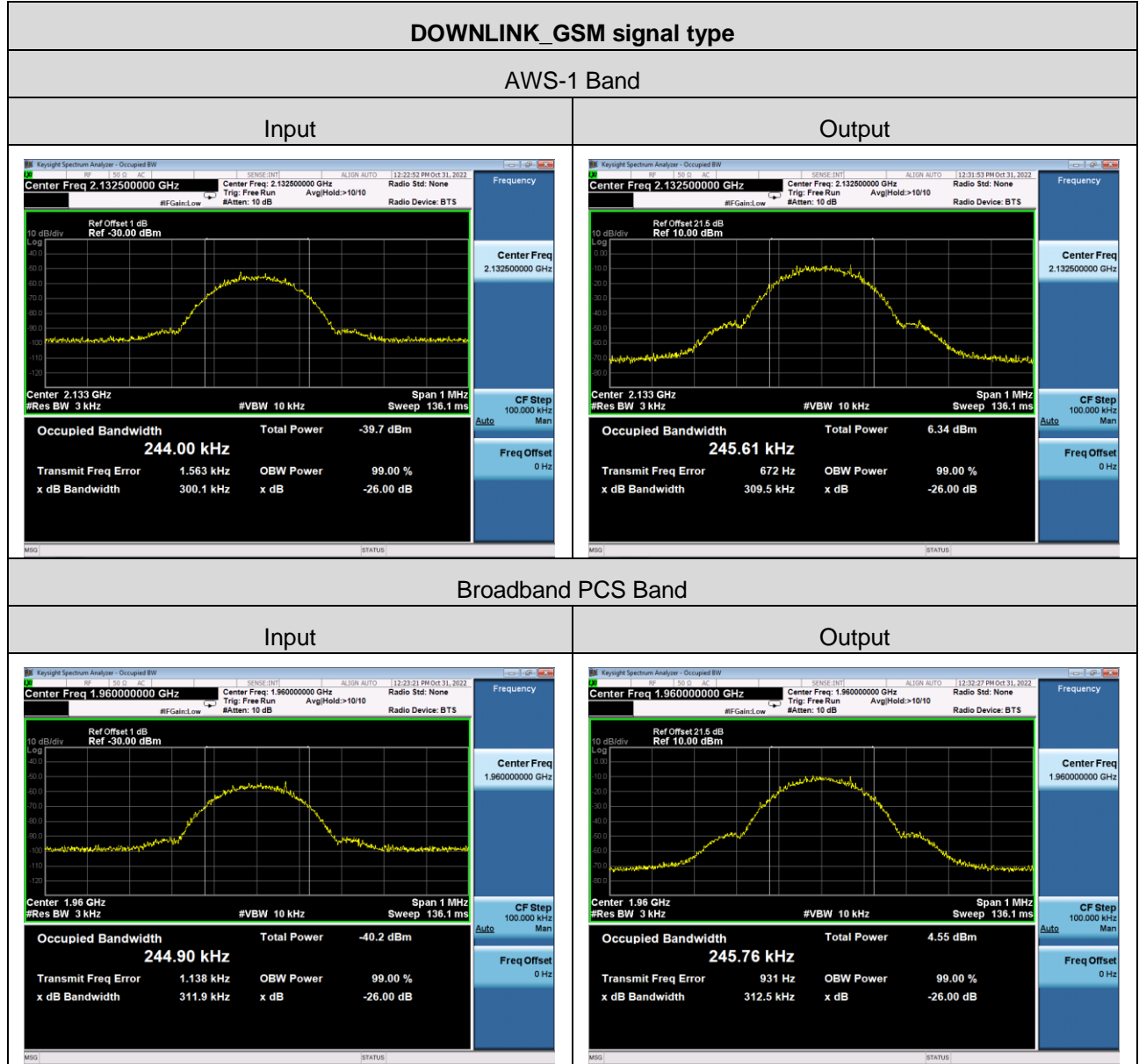
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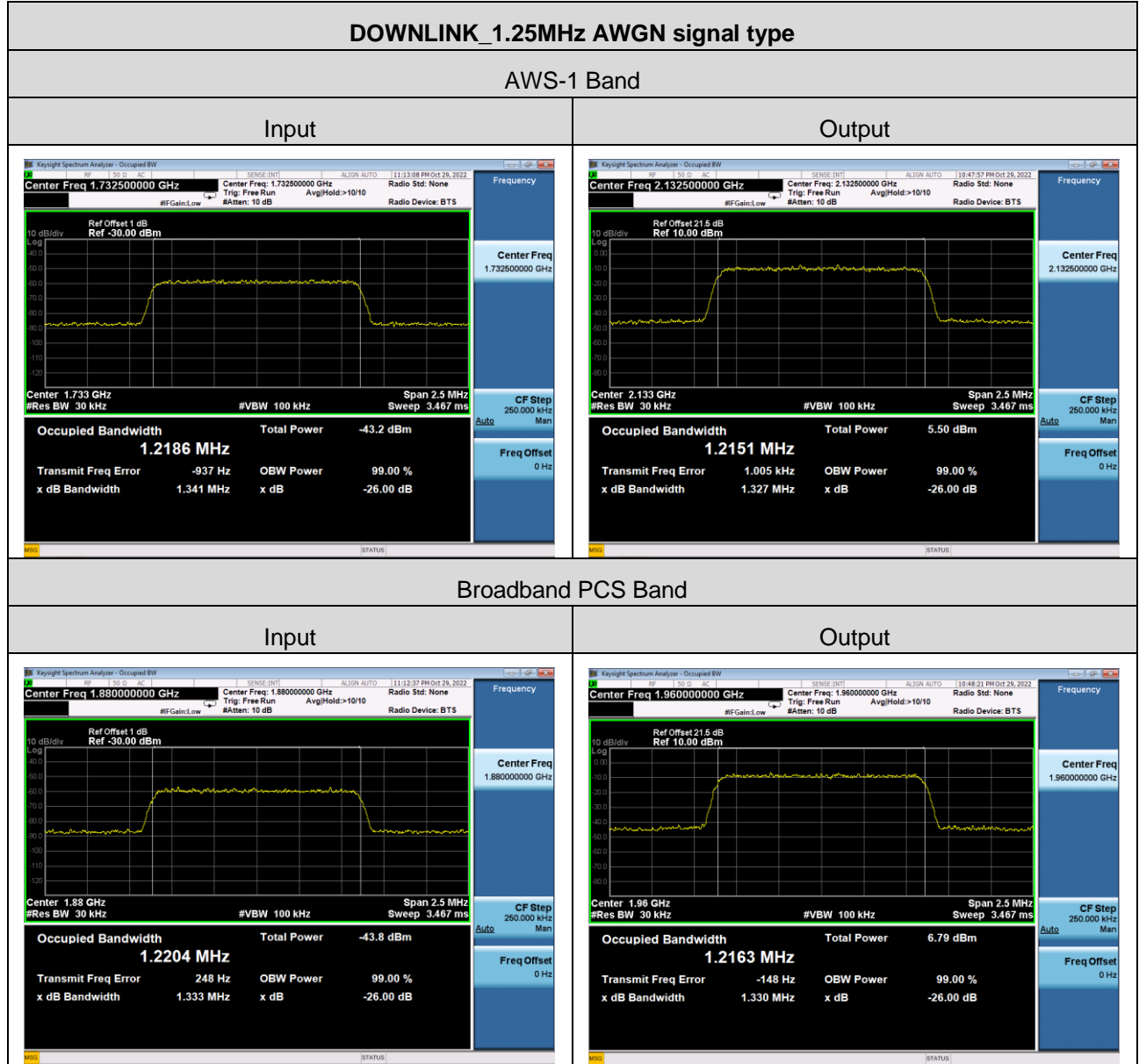




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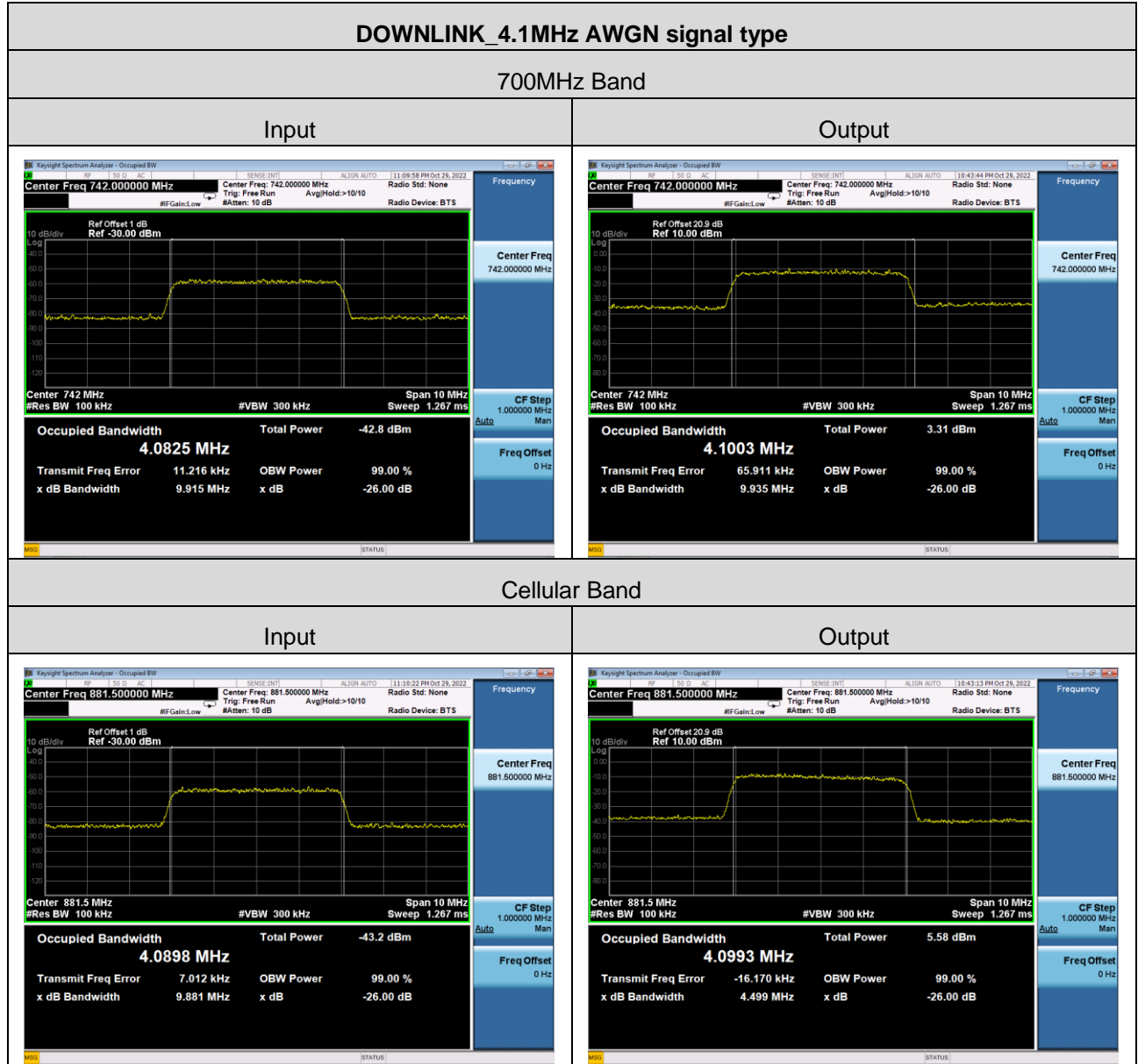
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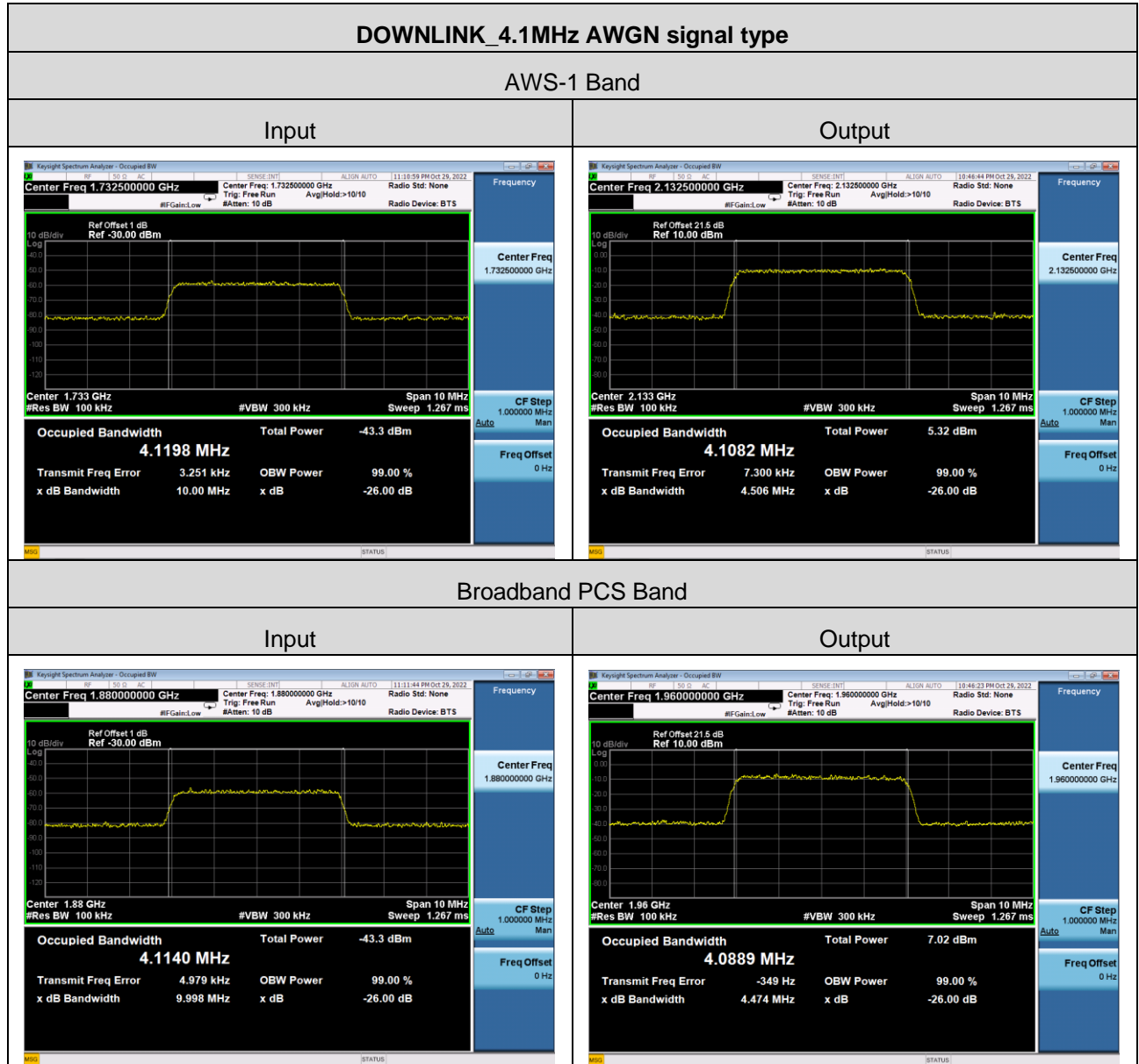




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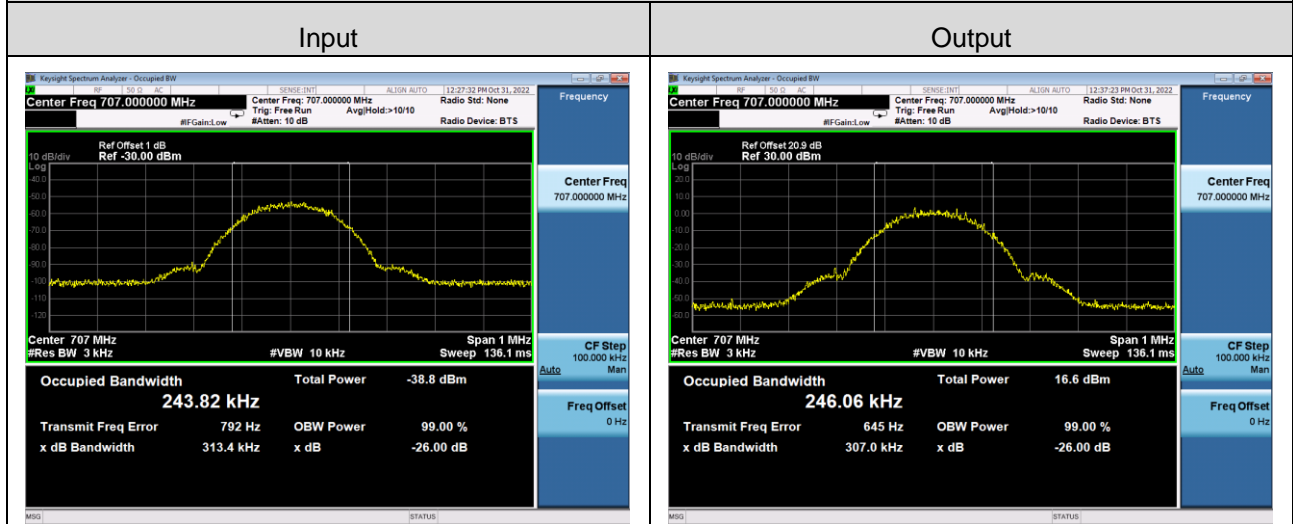


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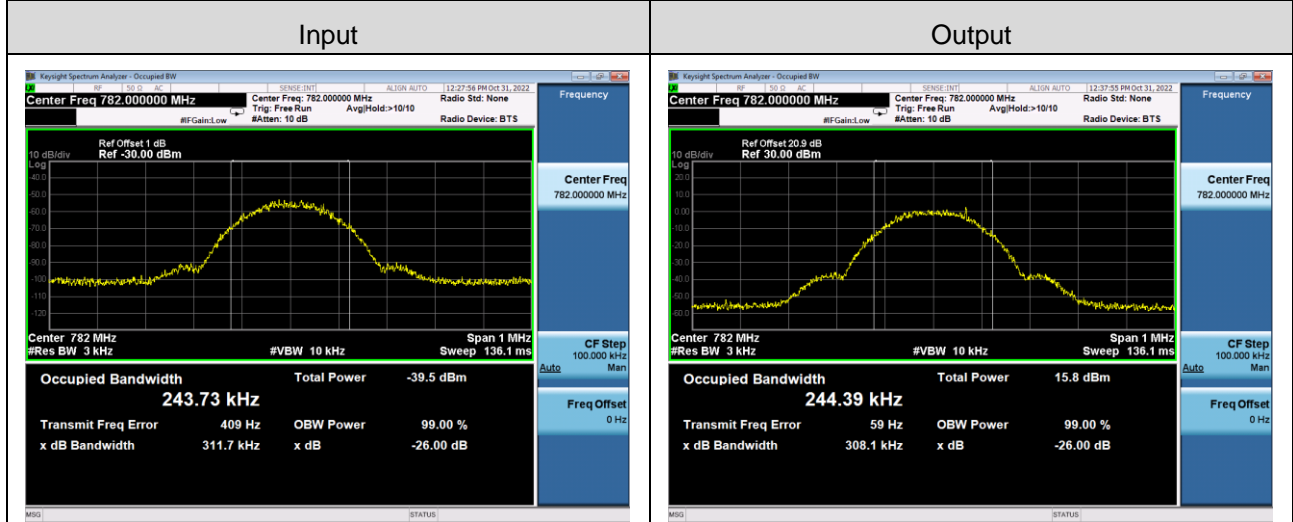
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UPLINK_GSM signal type

Lower 700MHz Band

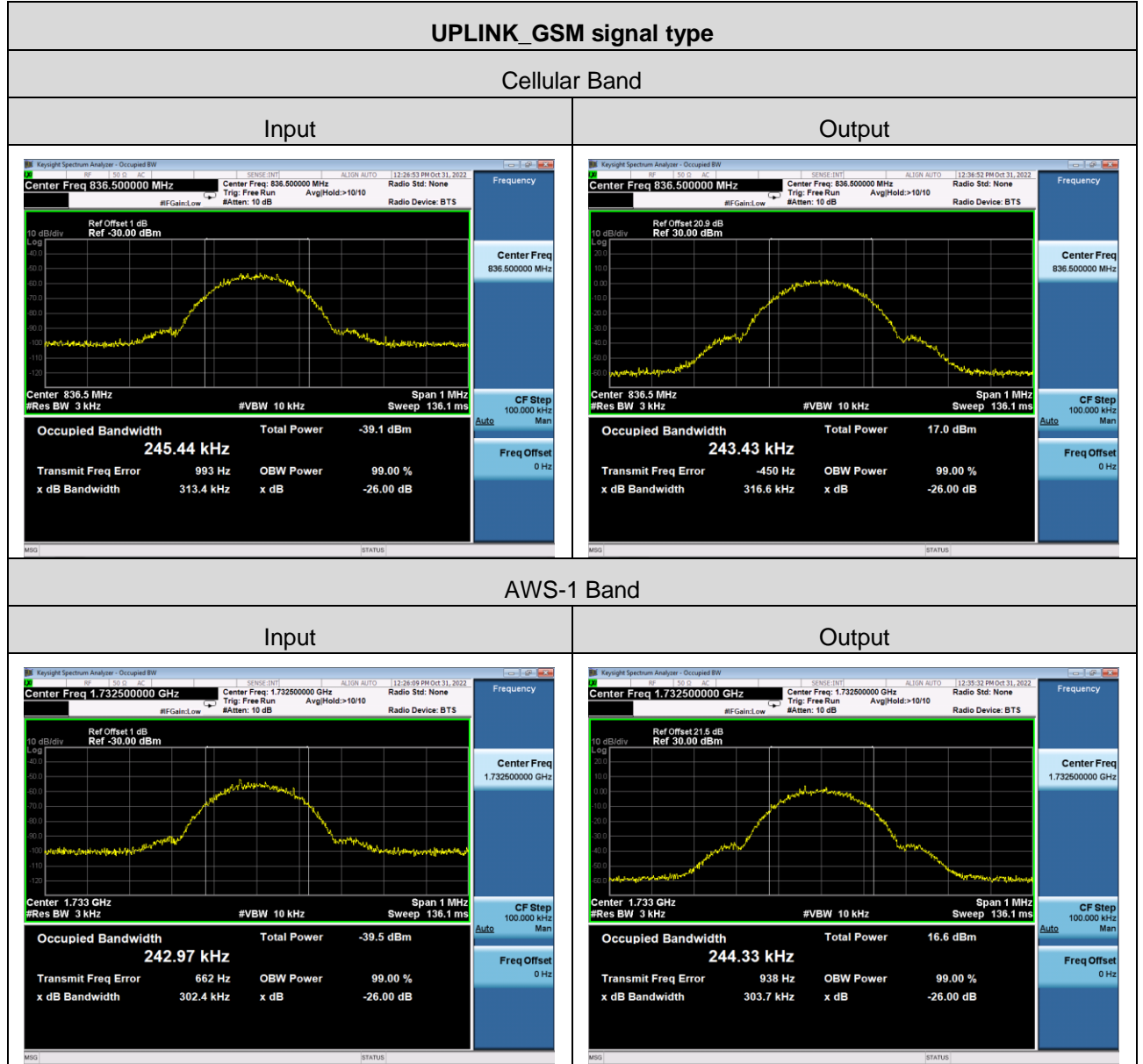


Upper 700MHz Band



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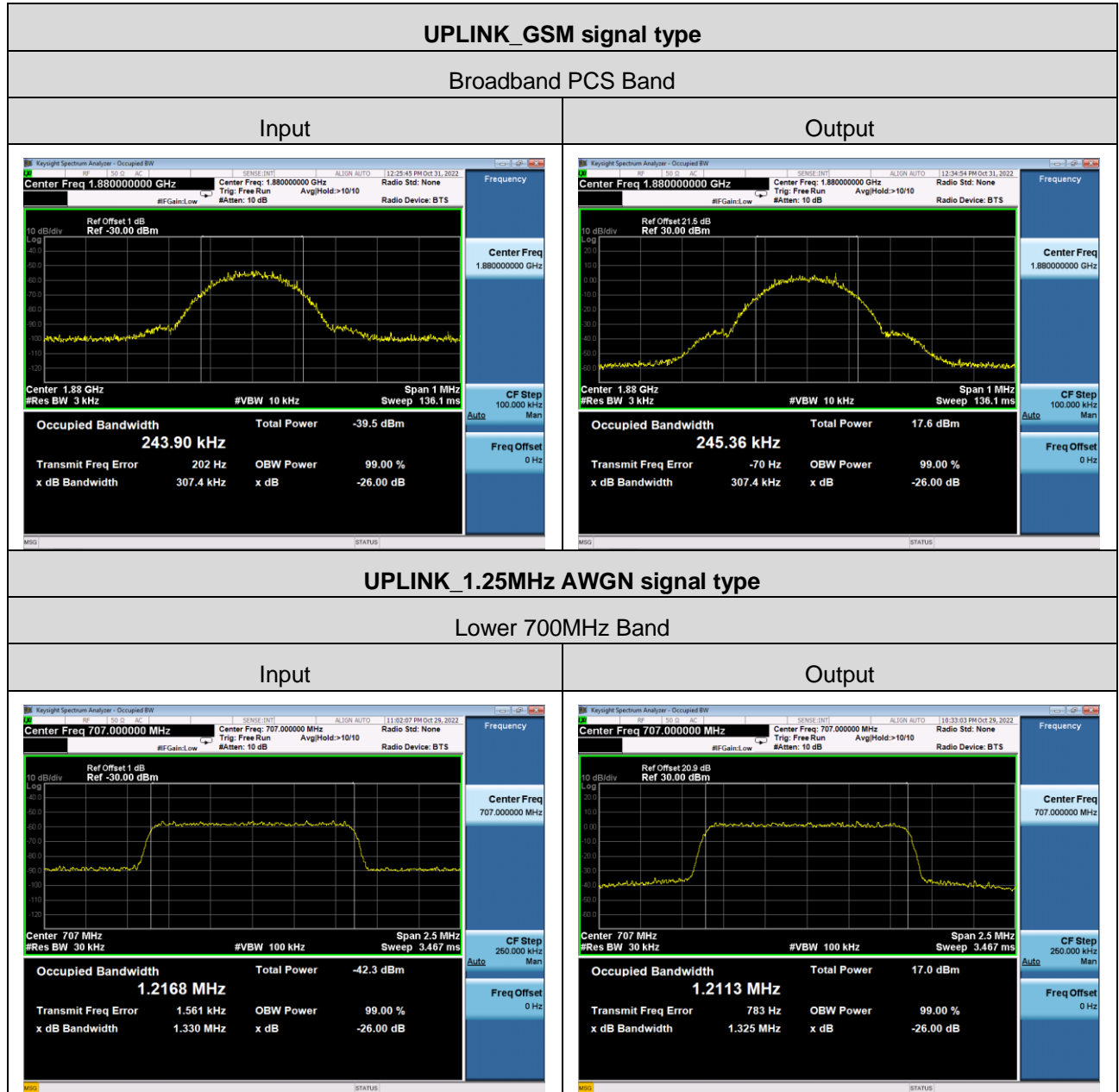
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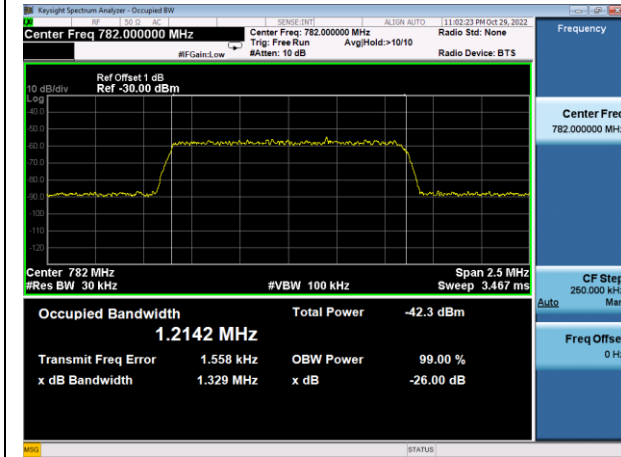
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Guangzhou Branch Technical Services EEC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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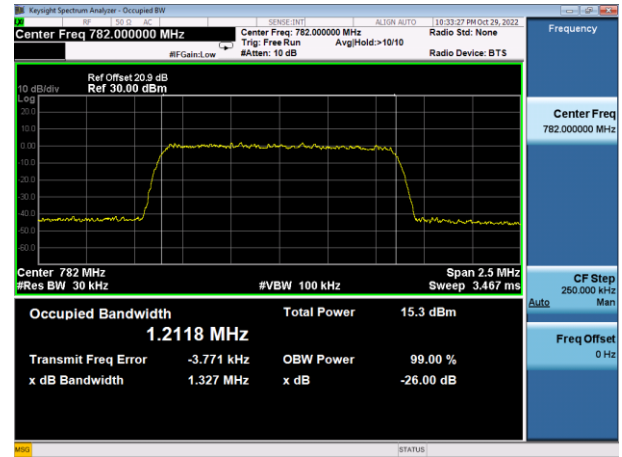
UPLINK_1.25MHz AWGN signal type

Upper 700MHz Band

Input

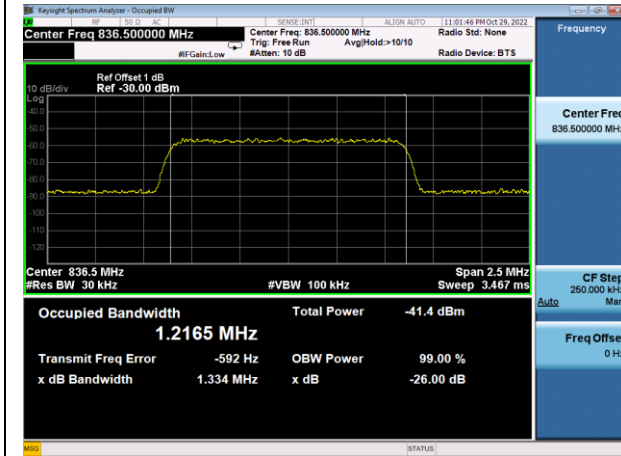


Output

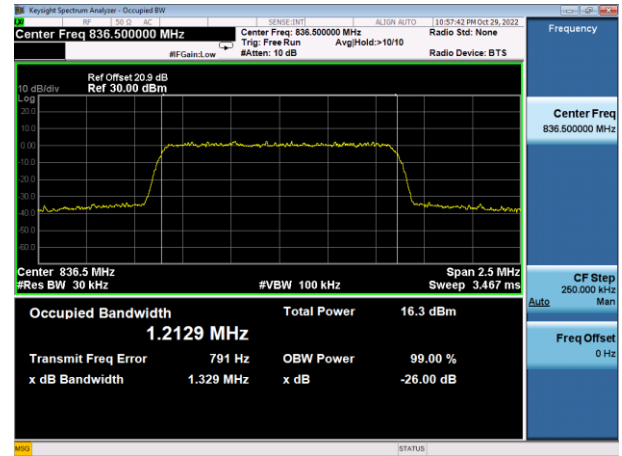


Cellular Band

Input



Output



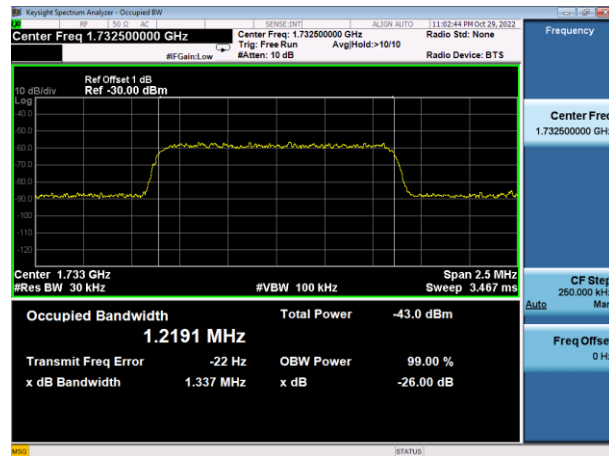
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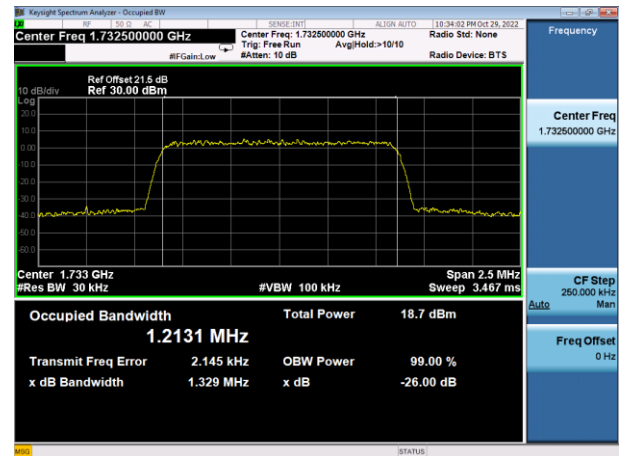
UPLINK_1.25MHz AWGN signal type

AWS-1 Band

Input

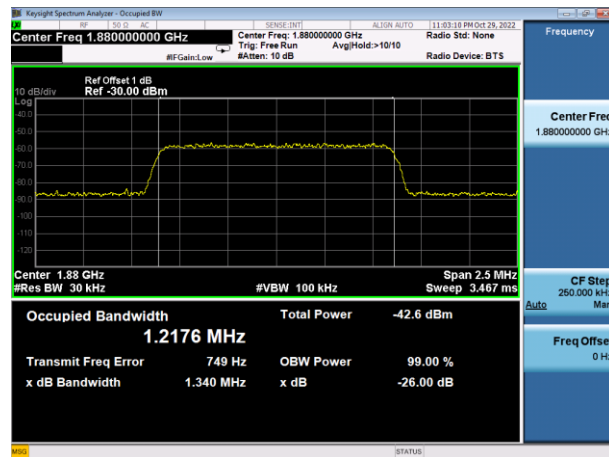


Output

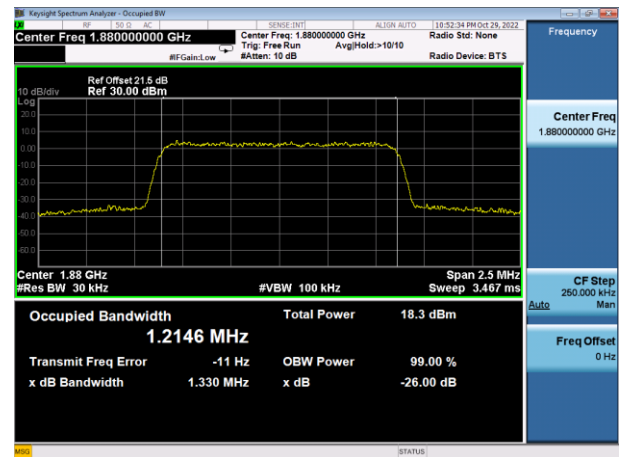


Broadband PCS Band

Input



Output



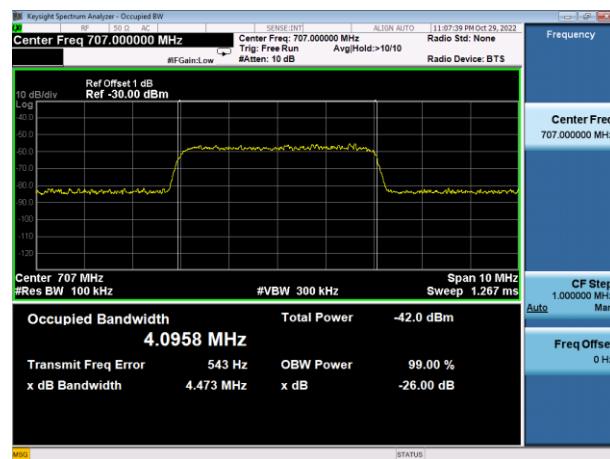
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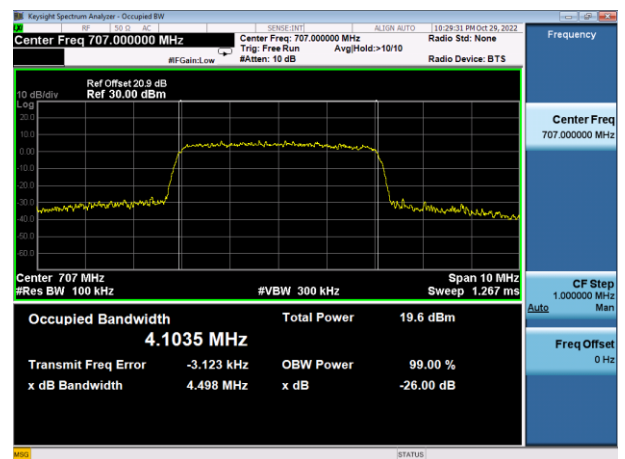
UPLINK_4.1MHz AWGN signal type

Lower 700MHz Band

Input

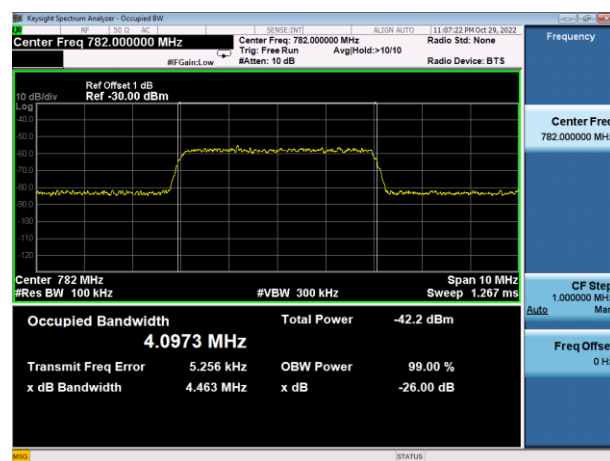


Output

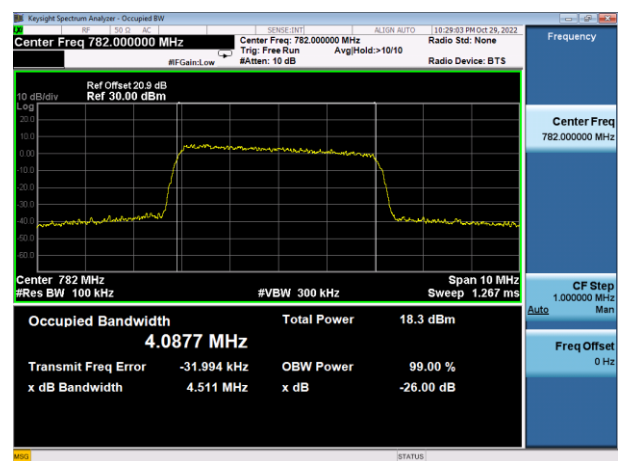


Upper 700MHz Band

Input



Output



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