



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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FCC ID: 2AYTR-SZZJ2

Appendix -

Test Data and Result for report

GZCR221000134102



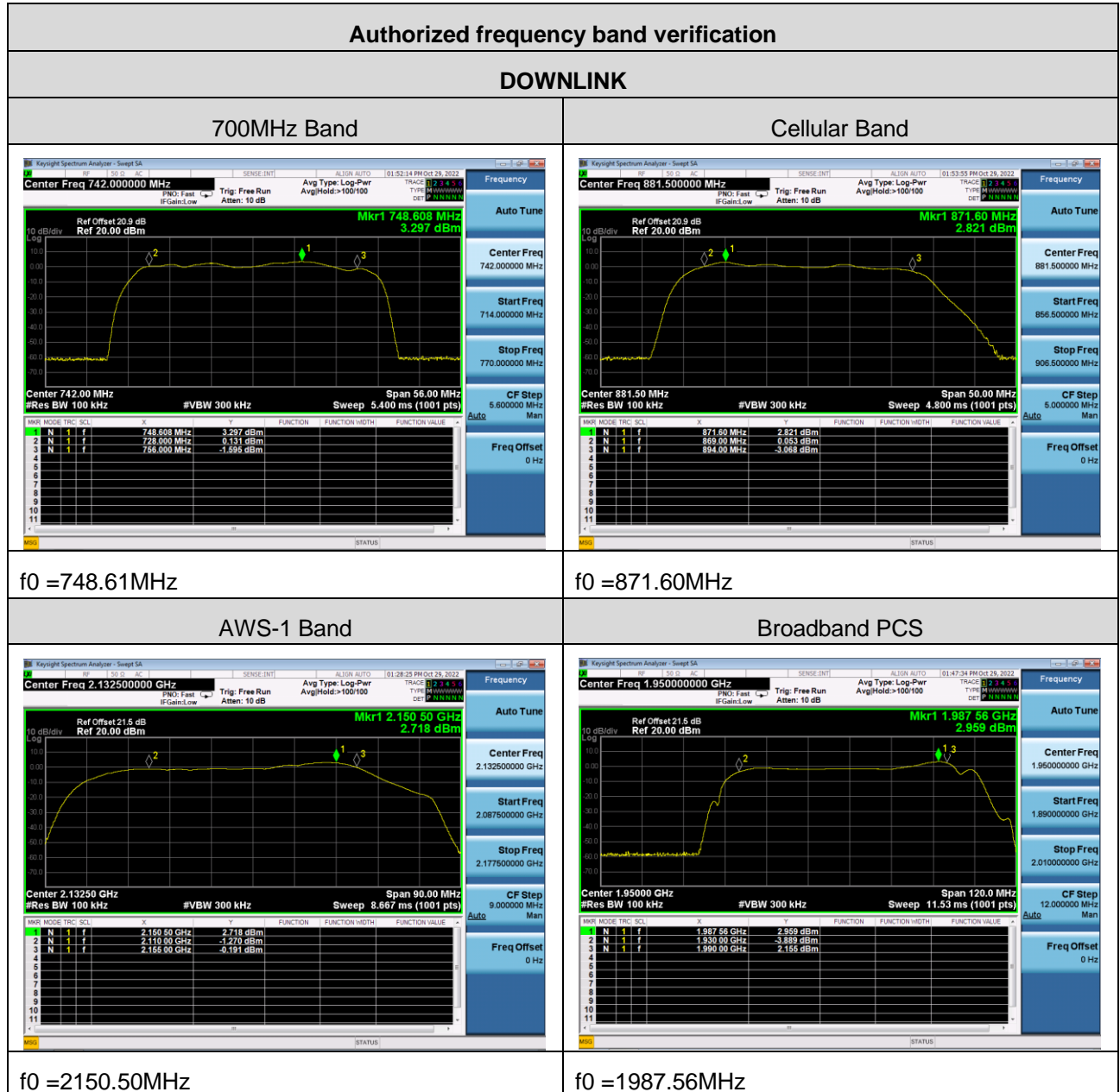
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1 Authorized frequency band verification



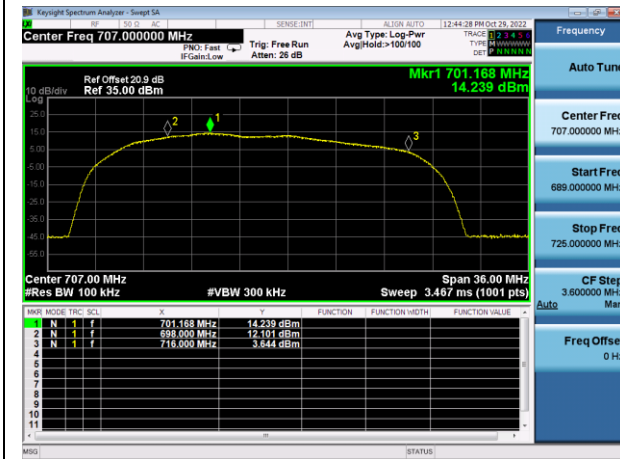
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Authorized frequency band verification

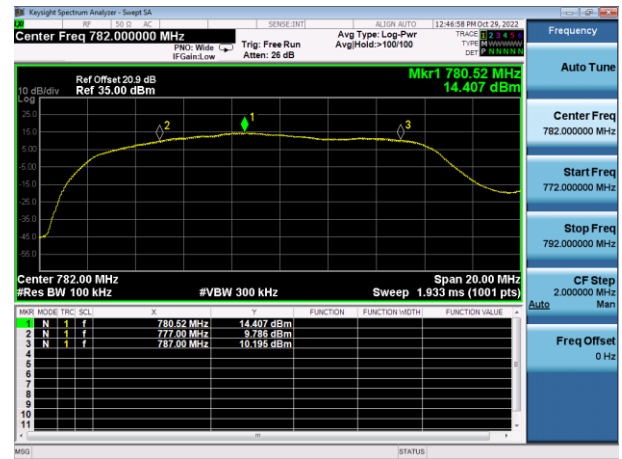
UPLINK

Lower 700MHz Band



f0 = 701.17MHz

Upper 700MHz Band



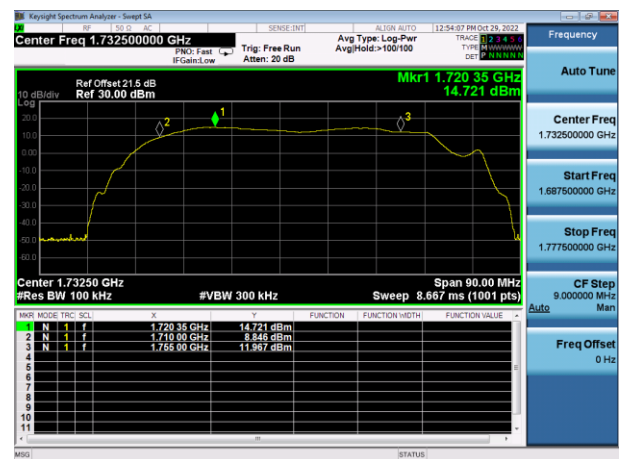
f0 = 780.52MHz

Cellular Band



f0 = 835.30MHz

AWS-1 Band

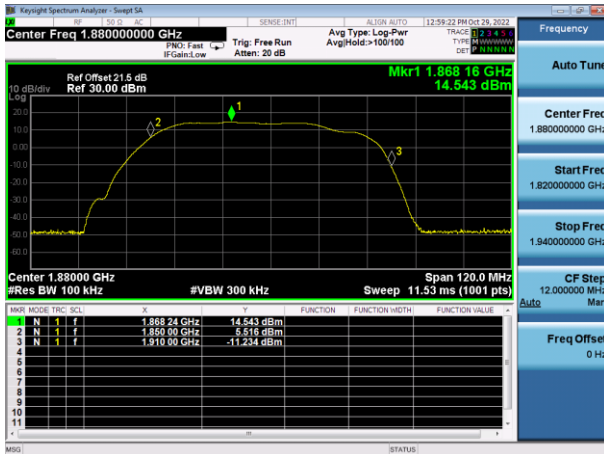


f0 = 1720.35MHz



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Authorized frequency band verification	
UPLINK	
Broad PCS Band	/
	/
f0 =1868.24MHz	/
The frequency point f0 with the highest power level fall in the CMRS band under test with reset the spectrum analyser span to 2 × the width of the CMRS band under test and adjust the tuned frequency of the signal generator to sweep 2 × the width of the CMRS band using the sweep function. EUT is compiled the KDB 935210 D03 Signal Booster Measurements v04r04 Authorized frequency band verification test requirement.	



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2 Maximum power

Maximum Output Power								
Path	Band	Signal Type	Input Signal Level (dBm)		Conducted Output Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
DOWNLINK	700MHz	AWGN	Pre-AGC	-50.2	4.7	13.7	≤17	PASS
		GSM	Pre-AGC	-48.9	6.0	15.0		PASS
	Cellular	AWGN	Pre-AGC	-52.4	5.6	14.6		PASS
		GSM	Pre-AGC	-51.3	6.4	15.4		PASS
	AWS-1	AWGN	Pre-AGC	-54.7	6.1	15.1		PASS
		GSM	Pre-AGC	-53.2	7.1	16.1		PASS
	Broadband PCS	AWGN	Pre-AGC	-55.4	6.6	15.6		PASS
		GSM	Pre-AGC	-53.9	7.2	16.2		PASS
UPLINK	Lower 700MHz	AWGN	Pre-AGC	-41.5	17.4	26.4	Lower:17 Upper:30	PASS
		GSM	Pre-AGC	-40.2	19.3	28.3		PASS
	Upper 700MHz	AWGN	Pre-AGC	-40.7	18.0	27.0		PASS
		GSM	Pre-AGC	-41.3	18.8	27.8		PASS
	Cellular	AWGN	Pre-AGC	-41.2	17.7	26.7		PASS
		GSM	Pre-AGC	-39.3	19.1	28.1		PASS
	AWS-1	AWGN	Pre-AGC	-43.6	18.8	27.8		PASS
		GSM	Pre-AGC	-41.1	19.6	28.6		PASS
	Broadband PCS	AWGN	Pre-AGC	-42.4	18.6	27.6		PASS
		GSM	Pre-AGC	-41.7	20.1	29.1		PASS
Remark:								
1. The test frequency f_0 was determined in Authorized frequency band verification test in this report.								
2. ERIP = Conducted Output Power + Antenna Gain – Cable loss, according to the declaration from the manufacturer, the maximum antenna gain is 10dBi and the minimum cable loss is 1dB.								



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		Maximum Input Power					
Path	Band	Signal Type	Input Power (dBm)		AGC Level (dBm)	Limit (dBm)	Verdict
			Maximum Input Power	EUT shutdown			
DOWNLINK	700MHz	AWGN	-50.2	-28.7	-50.0	≤-20	PASS
		GSM	-48.9	-29.1	-48.7		PASS
	Cellular	AWGN	-52.4	-31.2	-52.2		PASS
		GSM	-51.3	-30.5	-51.1		PASS
	AWS-1	AWGN	-54.7	-33.6	-54.5		PASS
		GSM	-53.2	-31.2	-53.0		PASS
	Broadband PCS	AWGN	-55.4	-32.4	-55.2		PASS
		GSM	-53.9	-30.3	-53.7		PASS
UPLINK	Lower 700MHz	AWGN	-41.5	-20.6	-41.3	≤27	PASS
		GSM	-40.2	-22.3	-40.0		PASS
	Upper 700MHz	AWGN	-40.7	-19.9	-40.5		PASS
		GSM	-41.3	-23.1	-41.1		PASS
	Cellular	AWGN	-41.2	-20.7	-41.0		PASS
		GSM	-39.3	-18.8	-39.1		PASS
	AWS-1	AWGN	-43.6	-21.4	-43.4		PASS
		GSM	-41.1	-19.0	-40.9		PASS
	Broadband PCS	AWGN	-42.4	-23.2	-42.2		PASS
		GSM	-41.7	-20.5	-41.5		PASS
		Remark: Above test data of maximum input power was obtained at the point that caused the EUT shutdown and complied at 10dB above AGC level.					



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3 Maximum booster gain computation

Maximum Gain								
Path	Band	Signal Type	Input Signal Level (dBm)		Conducted Output Power (dBm)	Gain (dB)	Limit (dB)	Verdict
DOWNLINK	700MHz	AWGN	Pre-AGC	-50.2	4.7	54.9	≤63.49	PASS
		GSM	Pre-AGC	-48.9	6.0	54.9		PASS
	Cellular	AWGN	Pre-AGC	-52.4	5.6	58.0	≤64.95	PASS
		GSM	Pre-AGC	-51.3	6.4	57.7		PASS
	AWS-1	AWGN	Pre-AGC	-54.7	6.1	60.8	≤71.27	PASS
		GSM	Pre-AGC	-53.2	7.1	60.3		PASS
	Broadband PCS	AWGN	Pre-AGC	-55.4	6.6	62.0	≤71.98	PASS
		GSM	Pre-AGC	-53.9	7.2	61.1		PASS
UPLINK	Lower 700MHz	AWGN	Pre-AGC	-41.5	17.4	58.9	≤63.49	PASS
		GSM	Pre-AGC	-40.2	19.3	59.5		PASS
	Upper 700MHz	AWGN	Pre-AGC	-40.7	18.0	58.7	≤64.36	PASS
		GSM	Pre-AGC	-41.3	18.8	60.1		PASS
	Cellular	AWGN	Pre-AGC	-41.2	17.7	58.9	≤64.95	PASS
		GSM	Pre-AGC	-39.3	19.1	58.4		PASS
	AWS-1	AWGN	Pre-AGC	-43.6	18.8	62.4	≤71.27	PASS
		GSM	Pre-AGC	-41.1	19.6	60.7		PASS
	Broadband PCS	AWGN	Pre-AGC	-42.4	18.6	61.0	≤71.98	PASS
		GSM	Pre-AGC	-41.7	20.1	61.8		PASS



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Equivalent Uplink and Downlink Gain						
Band	Signal Type	Uplink Gain (dB)	Downlink Gain (dB)	UL vs DL Gain (dB)	Limit (dB)	Verdict
Lower 700MHz	AWGN	58.9	54.9	4.0	≤9	PASS
	GSM	59.5	54.9	4.6		PASS
Upper 700MHz	AWGN	58.7	54.9	3.8		PASS
	GSM	60.1	54.9	5.2		PASS
Cellular	AWGN	58.9	58.0	0.9		PASS
	GSM	58.4	57.7	0.7		PASS
AWS-1	AWGN	62.4	60.8	1.6		PASS
	GSM	60.7	60.3	0.4		PASS
Broadband PCS	AWGN	61.0	62.0	1.0		PASS
	GSM	61.8	61.1	0.7		PASS



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4 Intermodulation product

Intermodulation product						
Path	Band	Input Signal		Worst Test Level (dBm)	Limit (dBm)	Verdict
DOWNLINK	700MHz	two CW signals	Pre-AGC	-36.0	≤-19	PASS
			10dB above AGC	-34.9		PASS
	Cellular	two CW signals	Pre-AGC	-36.2	≤-19	PASS
			10dB above AGC	-36.6		PASS
	AWS-1	two CW signals	Pre-AGC	-36.7	≤-19	PASS
			10dB above AGC	-36.0		PASS
	Broadband PCS	two CW signals	Pre-AGC	-33.8	≤-19	PASS
			10dB above AGC	-33.8		PASS
UPLINK	Lower 700MHz	two CW signals	Pre-AGC	-21.1	≤-19	PASS
			10dB above AGC	-22.1		PASS
	Upper 700MHz	two CW signals	Pre-AGC	-21.1	≤-19	PASS
			10dB above AGC	-22.7		PASS
	Cellular	two CW signals	Pre-AGC	-34.9	≤-19	PASS
			10dB above AGC	-35.1		PASS
	AWS-1	two CW signals	Pre-AGC	-23.2	≤-19	PASS
			10dB above AGC	-24.2		PASS
	Broadband PCS	two CW signals	Pre-AGC	-28.1	≤-19	PASS
			10dB above AGC	-28.5		PASS

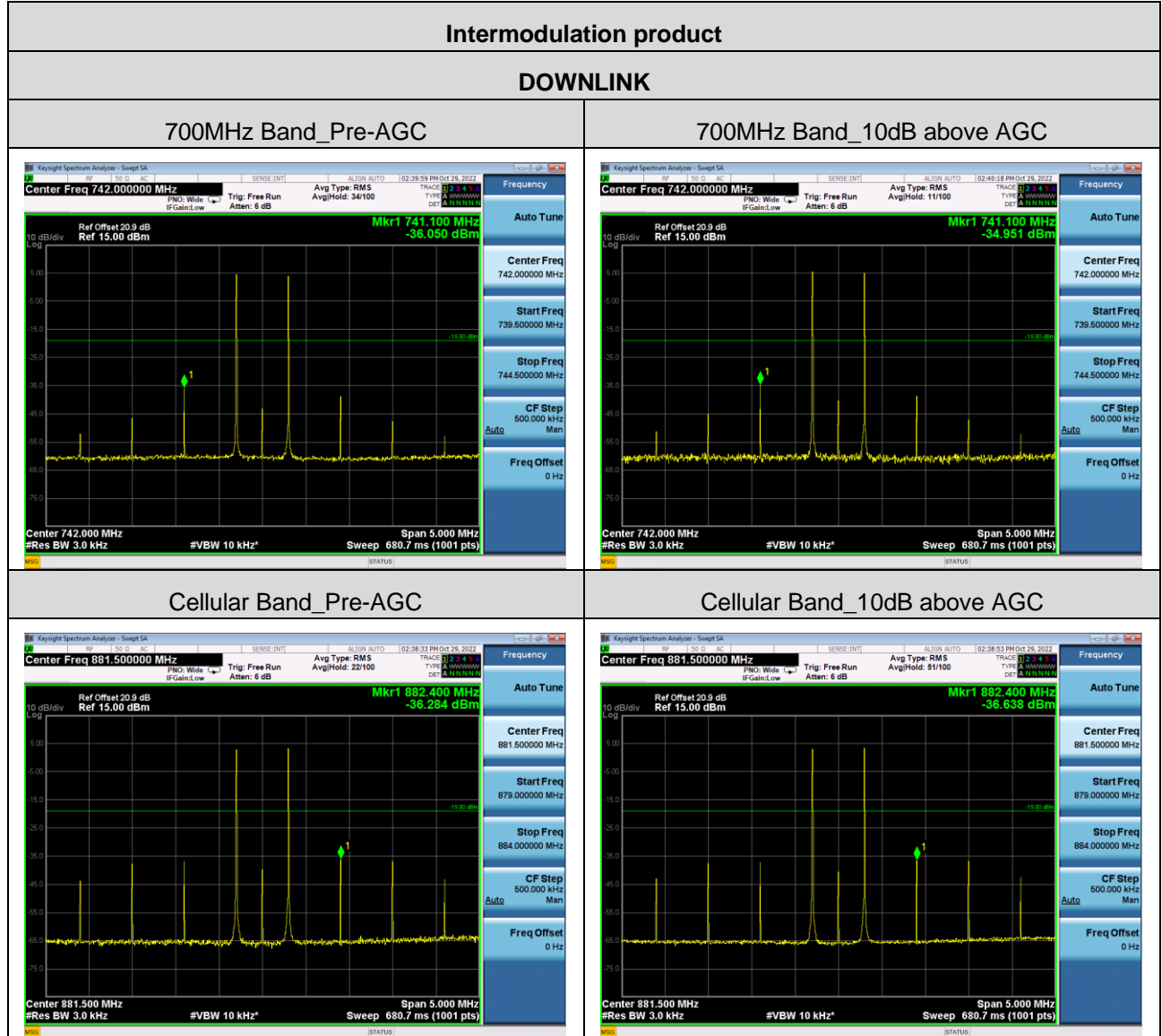


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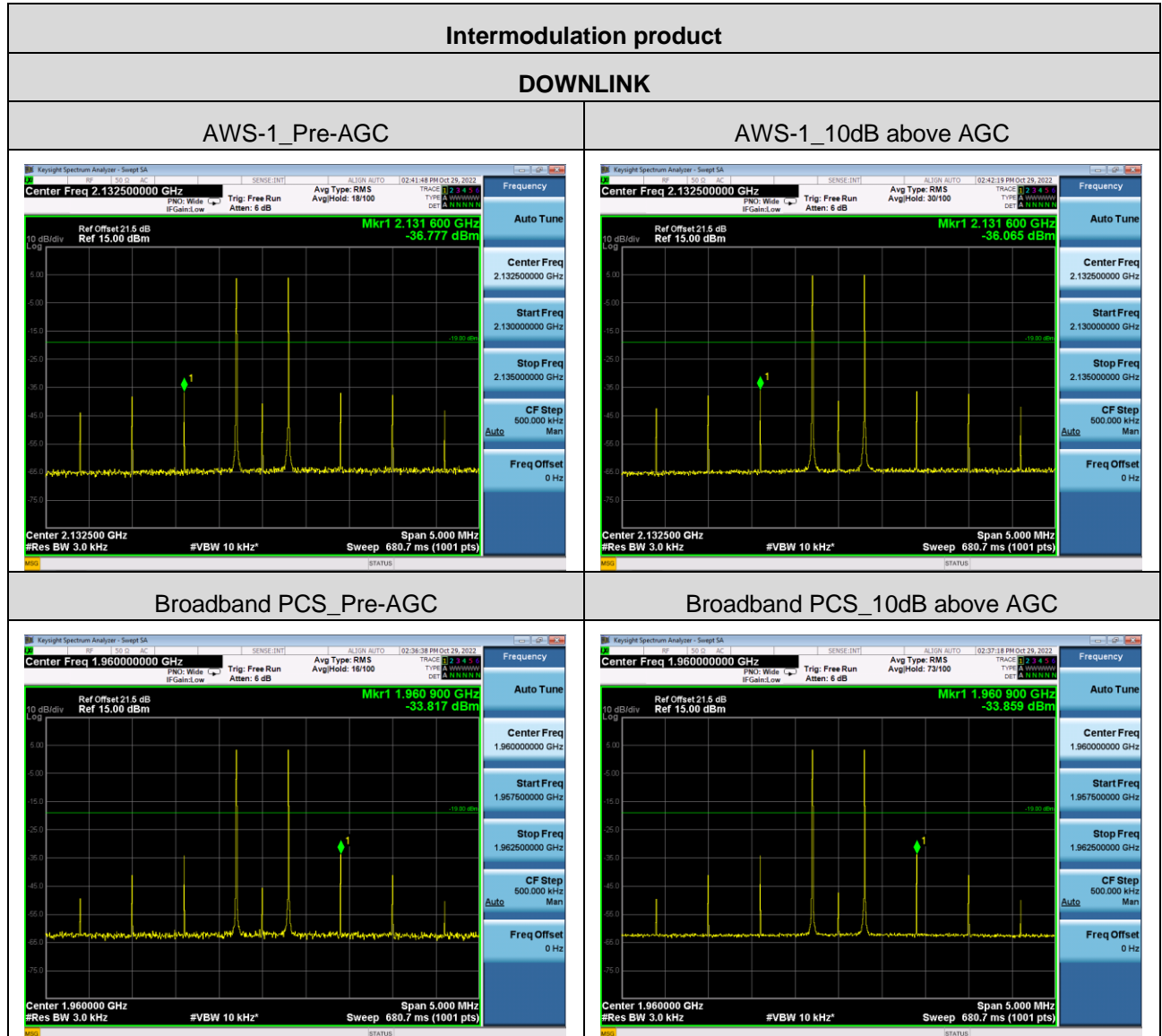
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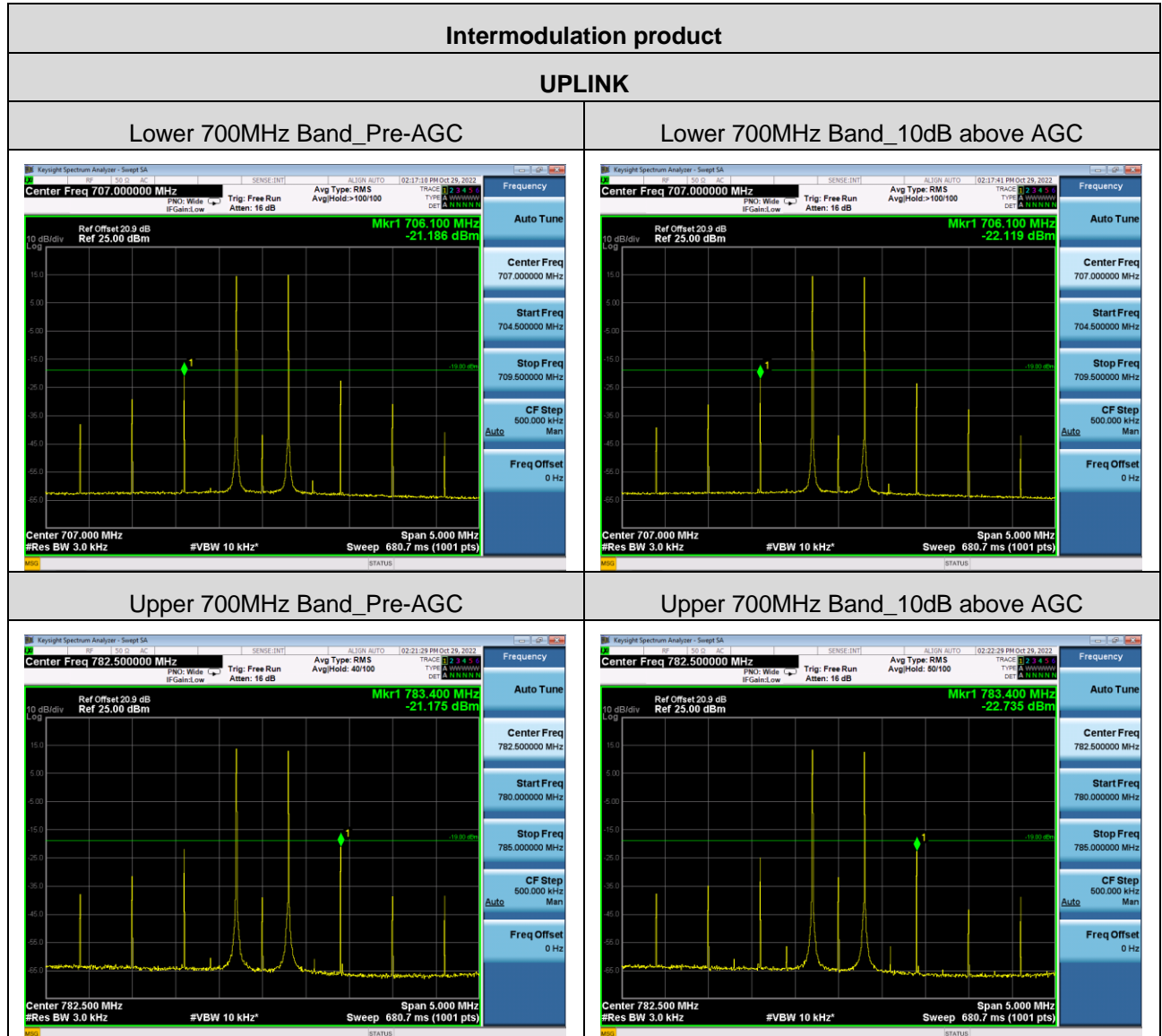
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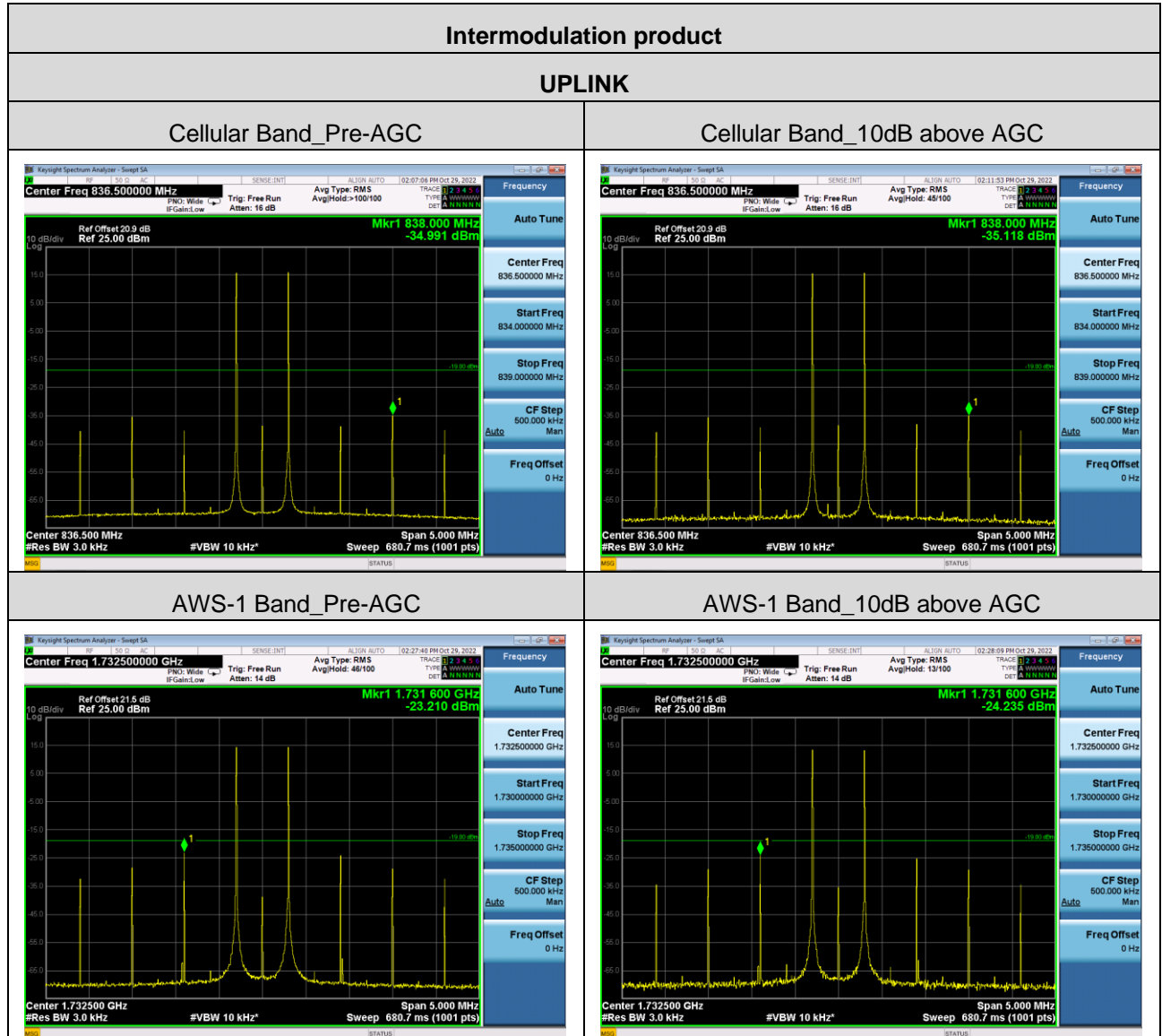
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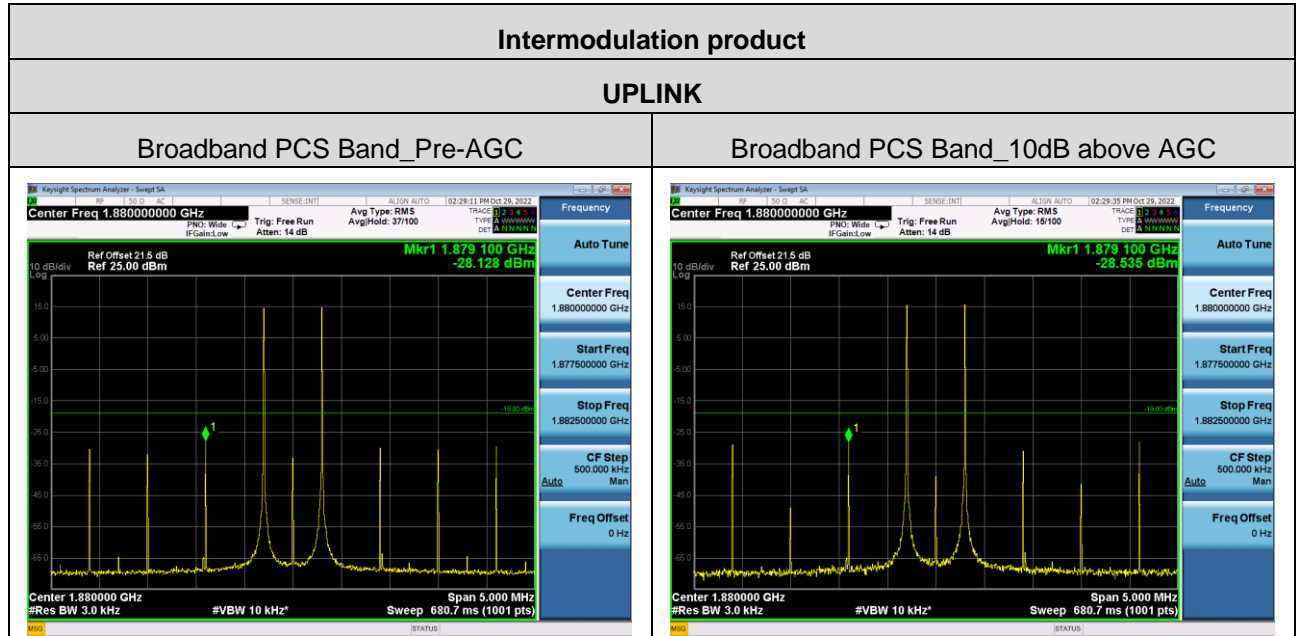
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5 Out-of-band emissions

Out-of-band emissions							
Path	Band	Input Signal			Worst Test Level (dBm)	Limit (dBm)	Verdict
DOWNLINK	700MHz	GSM	Lower Edge	Pre-AGC	-21.55	≤-19	PASS
				10dB above AGC	-21.81		PASS
			Upper Edge	Pre-AGC	-22.78		PASS
				10dB above AGC	-22.64		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-36.54		PASS
				10dB above AGC	-36.49		PASS
			Upper Edge	Pre-AGC	-45.97		PASS
				10dB above AGC	-45.29		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-45.70		PASS
				10dB above AGC	-46.26		PASS
			Upper Edge	Pre-AGC	-32.92		PASS
				10dB above AGC	-33.39		PASS
	Cellular	GSM	Lower Edge	Pre-AGC	-21.95	≤-19	PASS
				10dB above AGC	-22.11		PASS
			Upper Edge	Pre-AGC	-23.14		PASS
				10dB above AGC	-24.27		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-39.79		PASS
				10dB above AGC	-39.91		PASS
			Upper Edge	Pre-AGC	-42.65		PASS
				10dB above AGC	-43.51		PASS



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Out-of-band emissions						
Path	Band	Input Signal		Worst Test Level (dBm)	Limit (dBm)	Verdict
DOWNLINK	Cellular	4.1MHz AWGN	Lower Edge	Pre-AGC	-34.58	PASS
				10dB above AGC	-35.15	PASS
			Upper Edge	Pre-AGC	-40.68	PASS
				10dB above AGC	-39.87	PASS
		GSM	Lower Edge	Pre-AGC	-23.50	PASS
				10dB above AGC	-23.17	PASS
			Upper Edge	Pre-AGC	-20.32	PASS
				10dB above AGC	-20.47	PASS
	AWS-1	1.25MHz AWGN	Lower Edge	Pre-AGC	-22.41	PASS
				10dB above AGC	-22.03	PASS
			Upper Edge	Pre-AGC	-23.18	PASS
				10dB above AGC	-23.96	PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-28.12	PASS
				10dB above AGC	-28.80	PASS
			Upper Edge	Pre-AGC	-24.91	PASS
				10dB above AGC	-25.00	PASS
	Broadband PCS	GSM	Lower Edge	Pre-AGC	-25.38	PASS
				10dB above AGC	-25.45	PASS
			Upper Edge	Pre-AGC	-23.24	PASS
				10dB above AGC	-22.85	PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-23.49	PASS
				10dB above AGC	-24.40	PASS
			Upper Edge	Pre-AGC	-21.79	PASS
				10dB above AGC	-22.29	PASS



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Out-of-band emissions									
Path	Band	Input Signal			Worst Test Level (dBm)	Limit (dBm)	Verdict		
DOWNLINK	Broadband PCS	4.1MHz AWGN	Lower Edge	Pre-AGC	-38.41	≤-19	PASS		
				10dB above AGC	-39.04		PASS		
			Upper Edge	Pre-AGC	-36.68		PASS		
				10dB above AGC	-36.29		PASS		
UPLINK	Lower 700MHz	GSM	Lower Edge	Pre-AGC	-20.58	≤-19	PASS		
				10dB above AGC	-21.41		PASS		
			Upper Edge	Pre-AGC	-3.60		PASS		
				10dB above AGC	-23.09		PASS		
		1.25MHz AWGN	Lower Edge	Pre-AGC	-23.83		PASS		
				10dB above AGC	-23.35		PASS		
			Upper Edge	Pre-AGC	-25.16		PASS		
				10dB above AGC	-25.38		PASS		
		4.1MHz AWGN	Lower Edge	Pre-AGC	-25.21		PASS		
				10dB above AGC	-25.57		PASS		
			Upper Edge	Pre-AGC	-27.95		PASS		
				10dB above AGC	-27.51		PASS		
		Upper 700MHz	GSM	Lower Edge	Pre-AGC		-20.67	≤-19	PASS
					10dB above AGC		-21.46		PASS
				Upper Edge	Pre-AGC		-20.12		PASS
					10dB above AGC		-20.38		PASS
	1.25MHz AWGN		Lower Edge	Pre-AGC	-27.38	PASS			
				10dB above AGC	-27.39	PASS			
			Upper Edge	Pre-AGC	-28.29	PASS			
				10dB above AGC	-27.96	PASS			



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Out-of-band emissions							
Path	Band	Input Signal			Worst Test Level (dBm)	Limit (dBm)	Verdict
UPLINK	Upper 700MHz	4.1MHz AWGN	Lower Edge	Pre-AGC	-24.19	≤-19	PASS
				10dB above AGC	-24.36		PASS
			Upper Edge	Pre-AGC	-24.21		PASS
				10dB above AGC	-24.20		PASS
	Cellular	GSM	Lower Edge	Pre-AGC	-20.43	≤-19	PASS
				10dB above AGC	-20.70		PASS
			Upper Edge	Pre-AGC	-23.20		PASS
				10dB above AGC	-22.43		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-37.40		PASS
				10dB above AGC	-38.14		PASS
			Upper Edge	Pre-AGC	-38.72		PASS
				10dB above AGC	-39.39		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-41.29		PASS
				10dB above AGC	-40.86		PASS
			Upper Edge	Pre-AGC	-43.67		PASS
				10dB above AGC	-43.07		PASS
	AWS-1	GSM	Lower Edge	Pre-AGC	-20.26	≤-19	PASS
				10dB above AGC	-20.83		PASS
			Upper Edge	Pre-AGC	-21.03		PASS
				10dB above AGC	-20.79		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-21.22		PASS
				10dB above AGC	-22.15		PASS
			Upper Edge	Pre-AGC	-20.01		PASS
				10dB above AGC	-20.32		PASS



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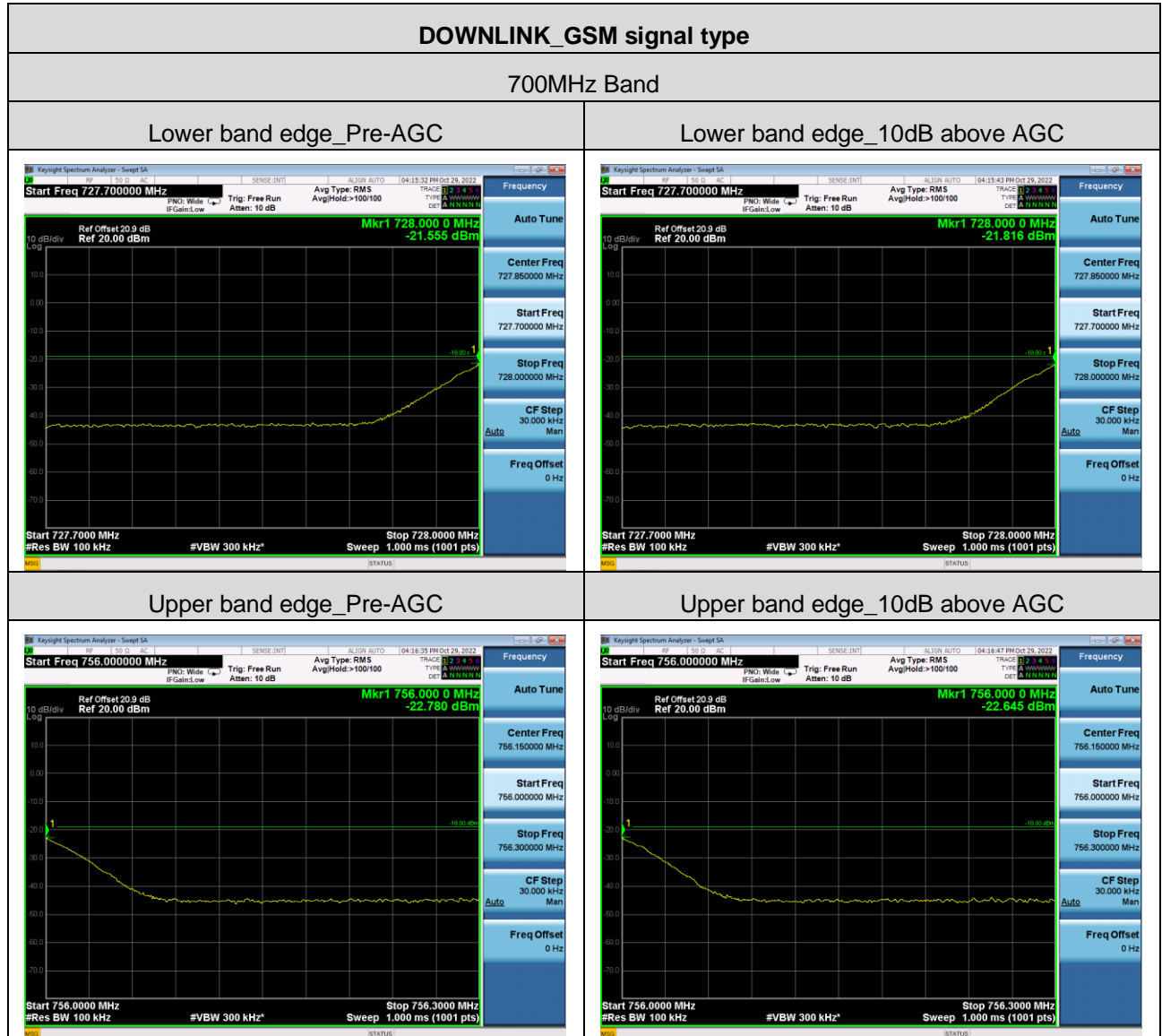
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Path	Band	Input Signal			Worst Test Level (dBm)	Limit (dBm)	Verdict
UPLINK	AWS-1	4.1MHz AWGN	Lower Edge	Pre-AGC	-21.16	≤-19	PASS
				10dB above AGC	-21.55		PASS
			Upper Edge	Pre-AGC	-21.97		PASS
				10dB above AGC	-22.08		PASS
	Broadband PCS	GSM	Lower Edge	Pre-AGC	-25.03	≤-19	PASS
				10dB above AGC	-24.91		PASS
			Upper Edge	Pre-AGC	-22.99		PASS
				10dB above AGC	-23.17		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-21.07		PASS
				10dB above AGC	-21.22		PASS
			Upper Edge	Pre-AGC	-23.63		PASS
				10dB above AGC	-23.22		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-21.47		PASS
				10dB above AGC	-22.01		PASS
			Upper Edge	Pre-AGC	-26.25		PASS
				10dB above AGC	-26.55		PASS



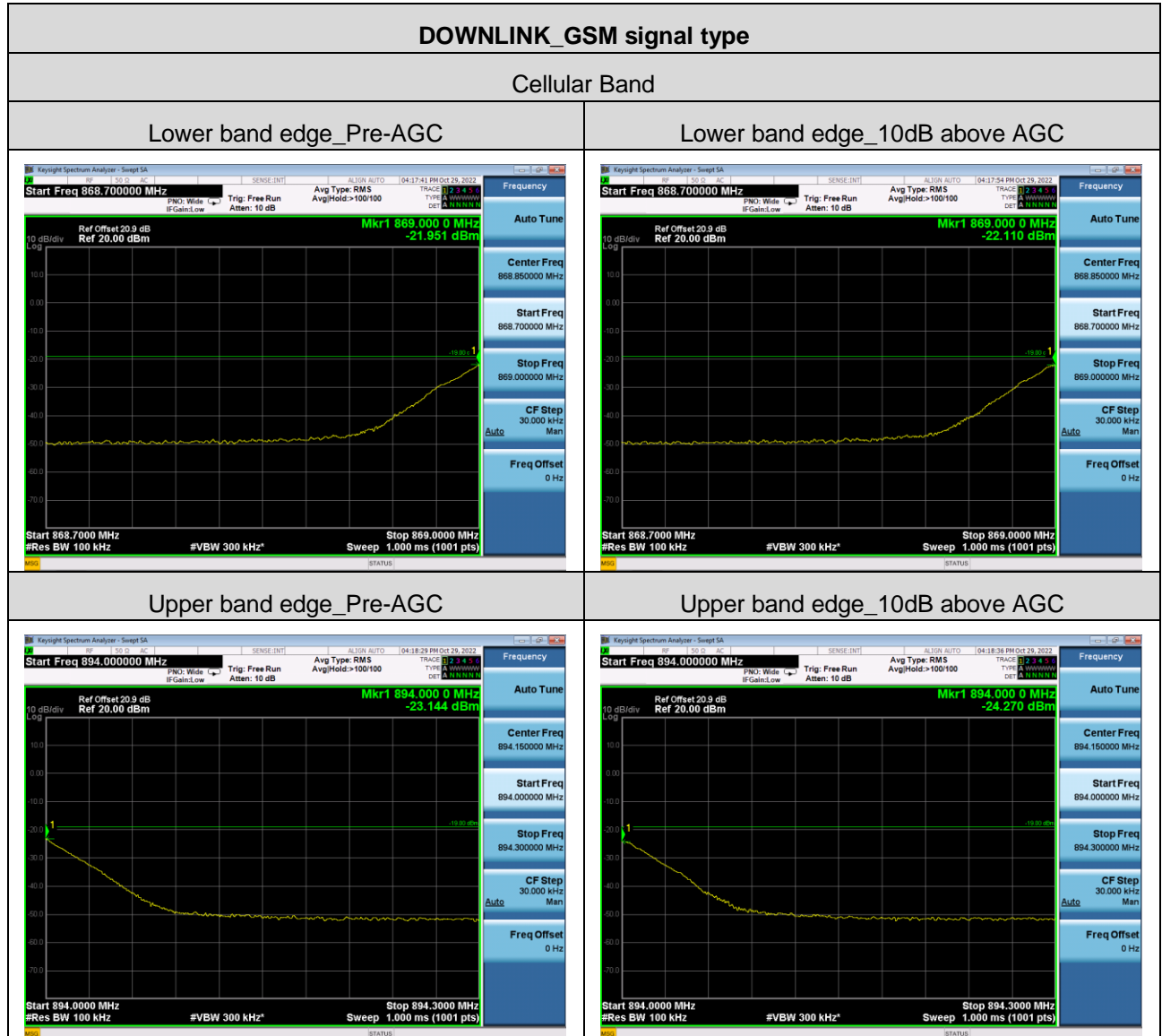
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