



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

EMC-ARF-05 Rev 1.1

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FCC ID: 2AYTR17K-A01

Appendix -

Test Data and Result for report

GZCR250300034202 (A)

(For Lower & Upper 700MHz)



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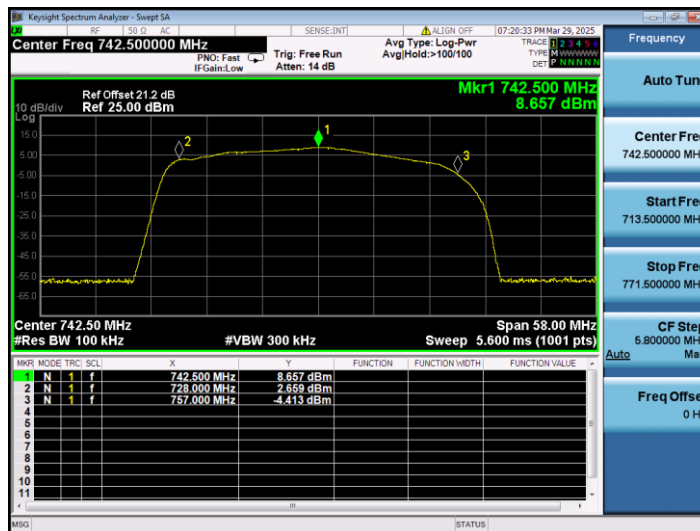
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1 Authorized frequency band verification

Authorized frequency band verification

DL

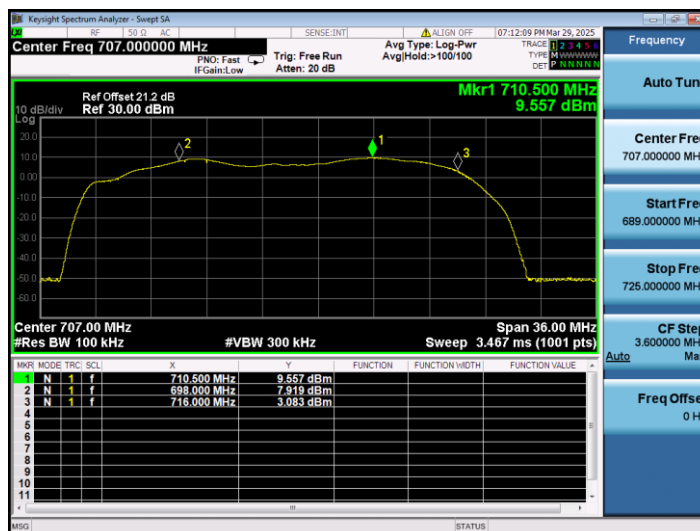
700MHz Band



$f_0 = 742.5\text{MHz}$

UL

Lower 700MHz Band



$f_0 = 710.5\text{MHz}$



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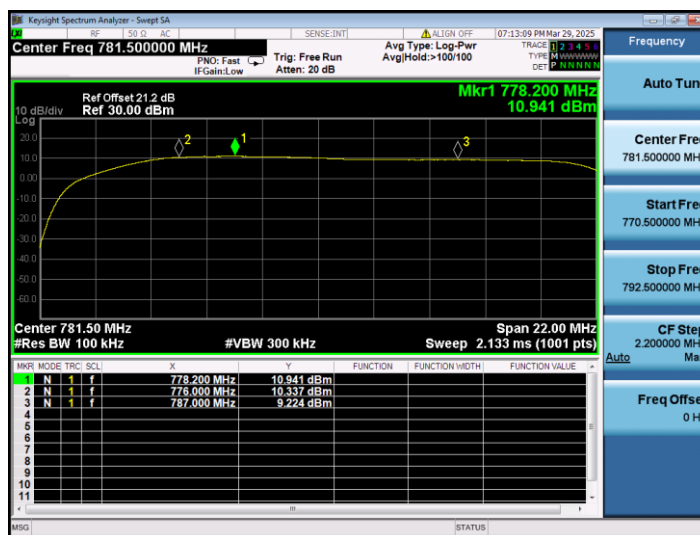
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Authorized frequency band verification

UL

Upper 700MHz Band



f0 =778.2MHz

Remark:

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.

2 Maximum power

Maximum Output Power									
Path	Band	Signal Type	Input Signal Level (dBm)		Maximum Output Power				Verdict
					Conducted (dBm)	Limit (dBm)	ERP (dBm)	Limit (dBm)	
DL	700MHz	AWGN	Pre-AGC	-43	14.91	≤17	15.91	≤17	PASS
		GSM	Pre-AGC	-43	15.20		26.20		PASS
UL	Lower 700MHz	AWGN	Pre-AGC	-45	17.89	≥17 & ≤30	16.49	≤30	PASS
		GSM	Pre-AGC	-45	18.05		16.85		PASS
	Upper 700MHz	AWGN	Pre-AGC	-45	18.74		17.34		PASS
		GSM	Pre-AGC	-45	18.83		17.43		PASS

Remark:

1. The test frequency f_0 was determined in Authorized frequency band verification test in this report.
2. ERP = Conducted Output Power + Antenna Gain – Cable loss, refer to clause 2 for the details about the declared antenna gain and cable loss.

Maximum transmitter test input levels					
Path	Band	Signal Type	Input Power (dBm)	Conducted output power (dBm)	Verdict
DL	700MHz	AWGN	-21	14.78	PASS
		GSM	-21	15.05	PASS
UL	Lower 700MHz	AWGN	-24	17.68	PASS
		GSM	-24	17.93	PASS
	Upper 700MHz	AWGN	-24	18.51	PASS
		GSM	-24	18.49	PASS

Remark:

The EUT went into shutdown mode at the maximum input level indicated in 5.5 of KDB 935210 D03. Above test data was measured at input level 1dB less than that found to cause the shutdown, where the input power is much greater than 10dB above AGC.



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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
DL	700MHz	AWGN	Pre-AGC	-43	14.91	57.91	≤63.4	PASS
		GSM	Pre-AGC	-43	15.20	58.20		PASS
UL	Lower 700MHz	AWGN	Pre-AGC	-45	17.89	62.89	≤63.4	PASS
		GSM	Pre-AGC	-45	18.05	63.05		PASS
	Upper 700MHz	AWGN	Pre-AGC	-45	18.74	63.74	≤64.3	PASS
		GSM	Pre-AGC	-45	18.83	63.83		PASS

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	62.89	57.91	4.98	≤9	PASS
	GSM	63.05	58.20	4.85		PASS
Upper 700MHz	AWGN	63.74	57.91	5.83		PASS
	GSM	63.83	58.20	5.63		PASS



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4 Intermodulation product

Intermodulation product						
Path	Band	Input Signal		Worst Test Level (dBm)	Limit (dBm)	Verdict
DL	700MHz	two CW signals	Pre-AGC	-36.65	≤-19	PASS
			10dB above AGC	-36.59		PASS
UL	Lower 700MHz	two CW signals	Pre-AGC	-21.82	≤-19	PASS
			10dB above AGC	-20.19		PASS
	Upper 700MHz	two CW signals	Pre-AGC	-24.15	≤-19	PASS
			10dB above AGC	-24.19		PASS



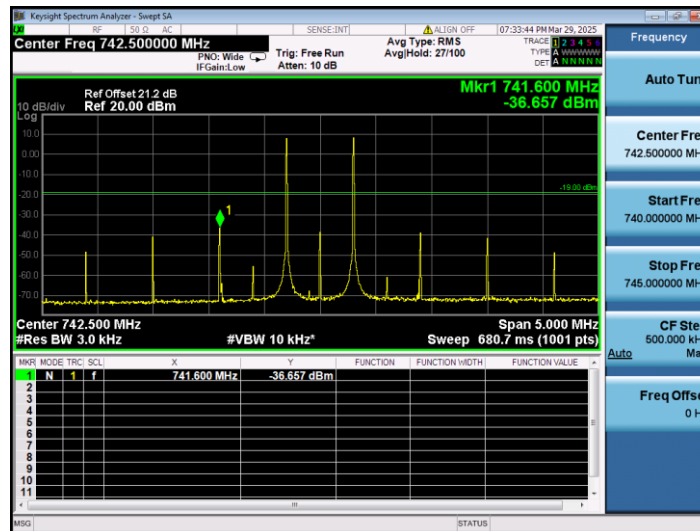
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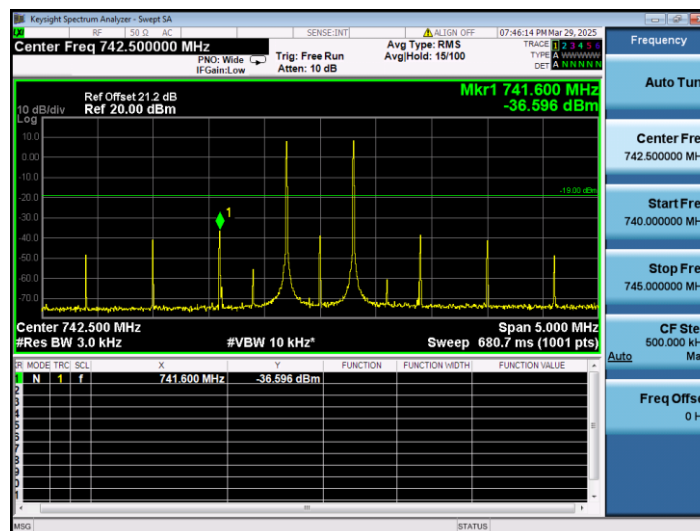
Intermodulation product

DL

700MHz Band_Pre-AGC



700MHz Band_10dB above AGC



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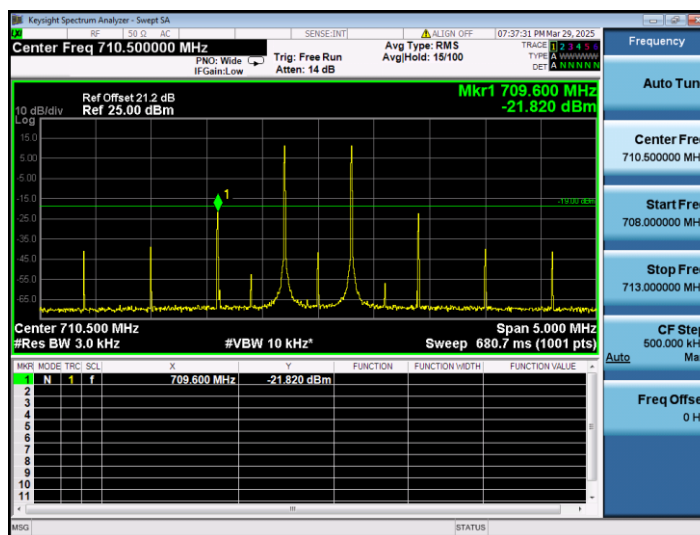
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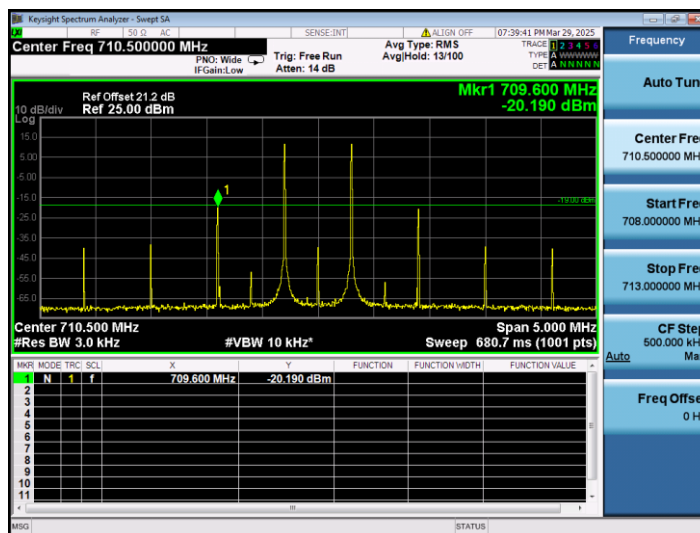
Intermodulation product

UL

Lower 700MHz Band_Pre-AGC



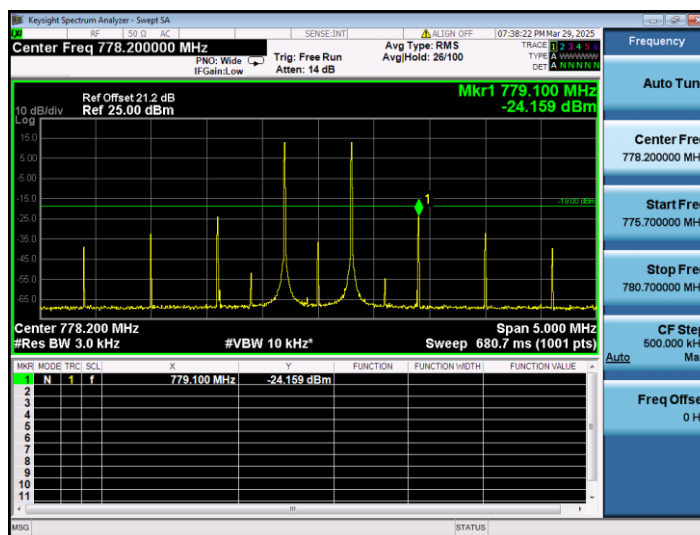
Lower 700MHz Band_10dB above AGC



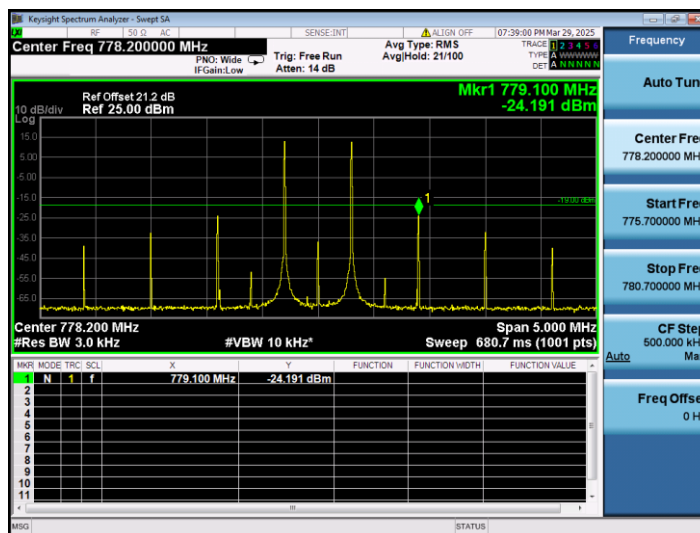
Intermodulation product

UL

Upper 700MHz Band_Pre-AGC



Upper 700MHz Band_10dB above AGC



5 Out-of-band emissions

Out-of-band emissions						
Path	Band	Input Signal			Limit (dBm)	Verdict
DL	700MHz	GSM	Lower Edge	Pre-AGC	≤-19	PASS
				10dB above AGC		PASS
			Upper Edge	Pre-AGC		PASS
				10dB above AGC		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	≤-19	PASS
				10dB above AGC		PASS
			Upper Edge	Pre-AGC		PASS
				10dB above AGC		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	≤-19	PASS
				10dB above AGC		PASS
			Upper Edge	Pre-AGC		PASS
				10dB above AGC		PASS
UL	Lower 700MHz	GSM	Lower Edge	Pre-AGC	≤-19	PASS
				10dB above AGC		PASS
			Upper Edge	Pre-AGC		PASS
				10dB above AGC		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	≤-19	PASS
				10dB above AGC		PASS
			Upper Edge	Pre-AGC		PASS
				10dB above AGC		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	≤-19	PASS
				10dB above AGC		PASS
			Upper Edge	Pre-AGC		PASS
				10dB above AGC		PASS



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Out-of-band emissions						
Path	Band	Input Signal			Limit (dBm)	Verdict
UL	Upper 700MHz	GSM	Lower Edge	Pre-AGC	≤-19	PASS
				10dB above AGC		PASS
			Upper Edge	Pre-AGC		PASS
				10dB above AGC		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	≤-19	PASS
				10dB above AGC		PASS
			Upper Edge	Pre-AGC		PASS
				10dB above AGC		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	≤-19	PASS
				10dB above AGC		PASS
			Upper Edge	Pre-AGC		PASS
				10dB above AGC		PASS



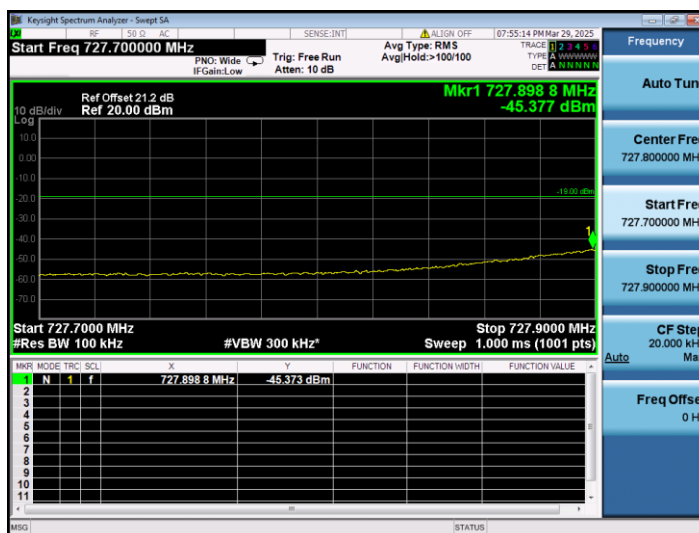
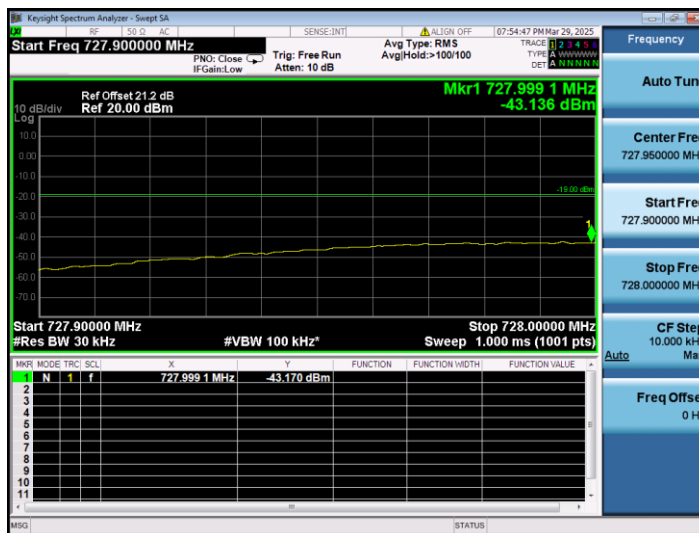
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Out-of-band emissions

DL_700MHz Band

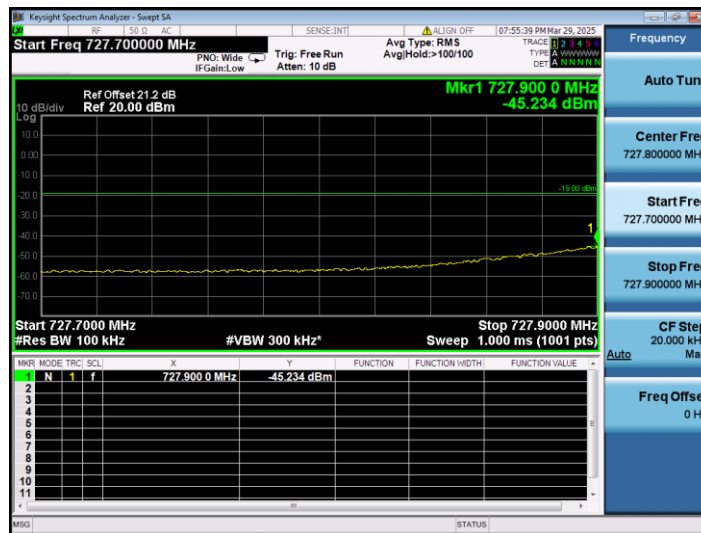
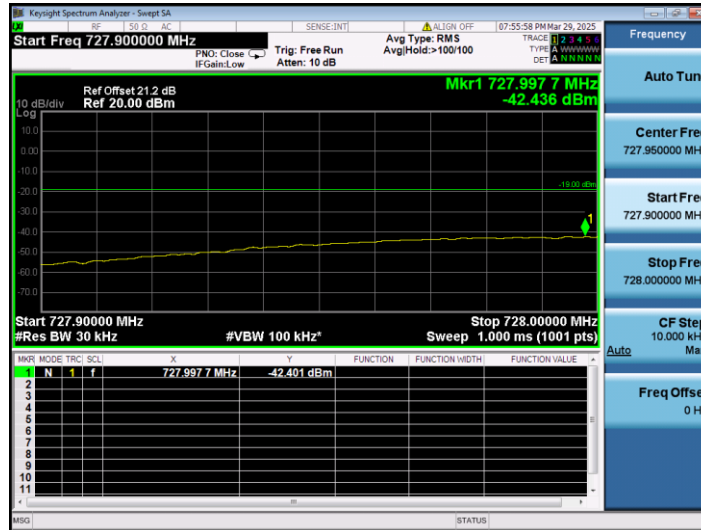
GSM signal input_Lower band edge_Pre-AGC



Out-of-band emissions

DL_700MHz Band

GSM signal input_Lower band edge_10dB above AGC



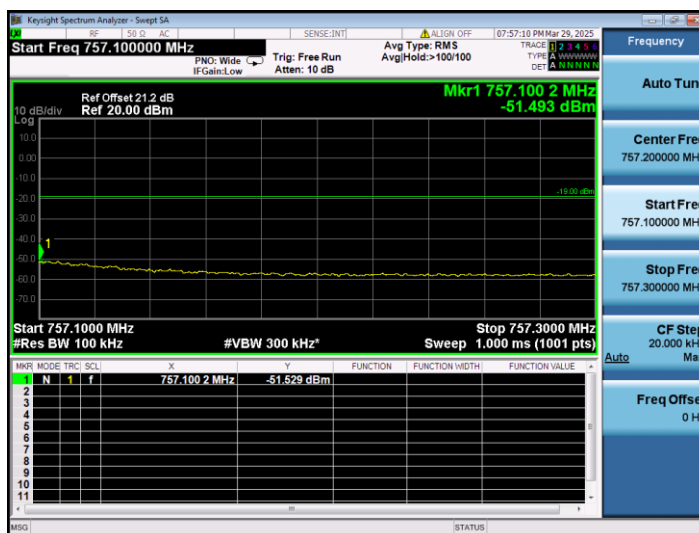
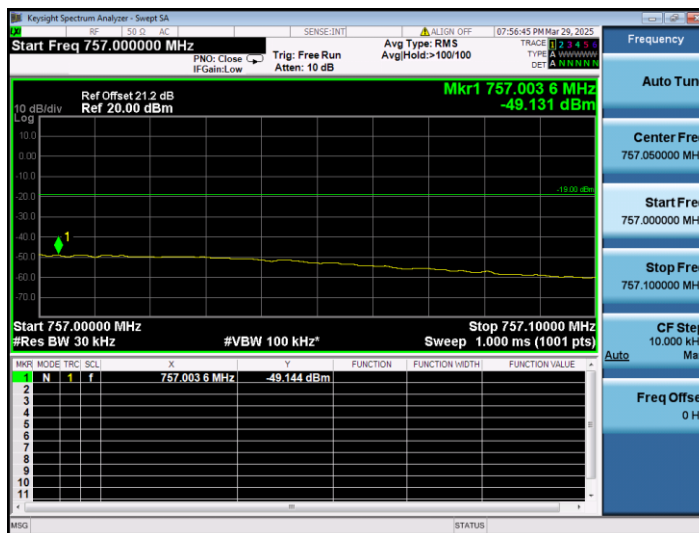
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Out-of-band emissions

DL_700MHz Band

GSM signal input_Upper band edge_Pre-AGC



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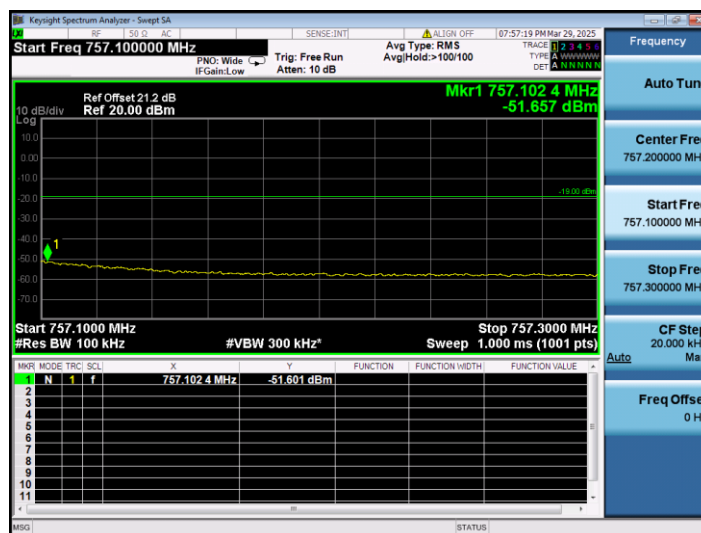
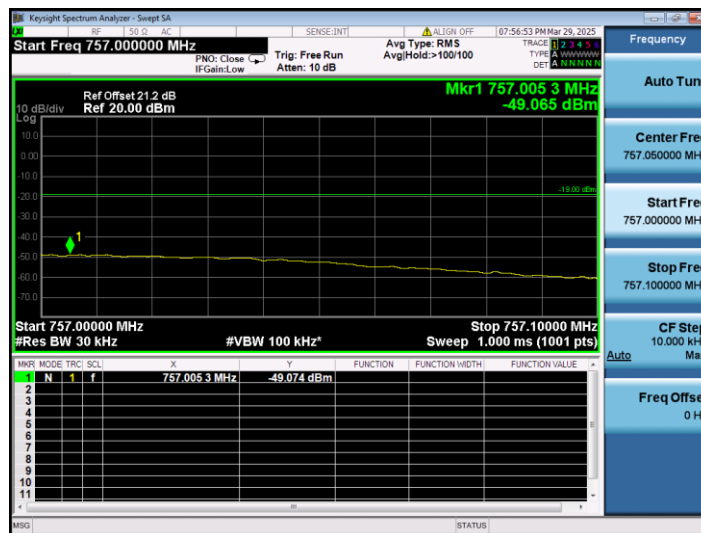
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Out-of-band emissions

DL_700MHz Band

GSM signal input_Upper band edge_10dB above AGC



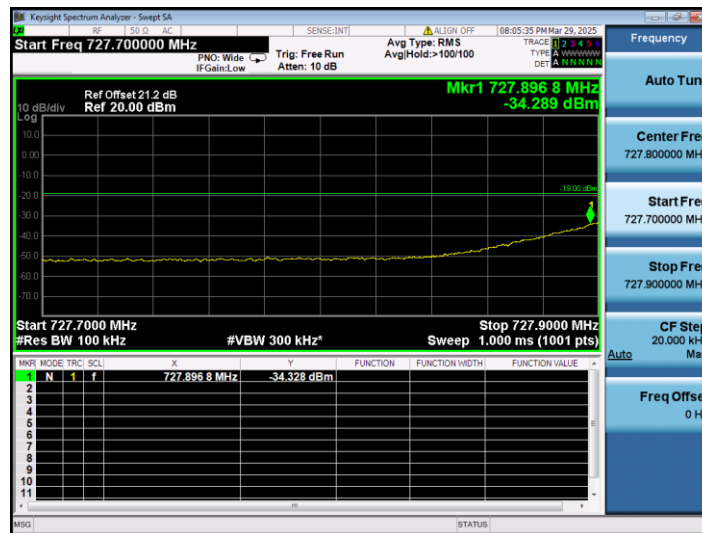
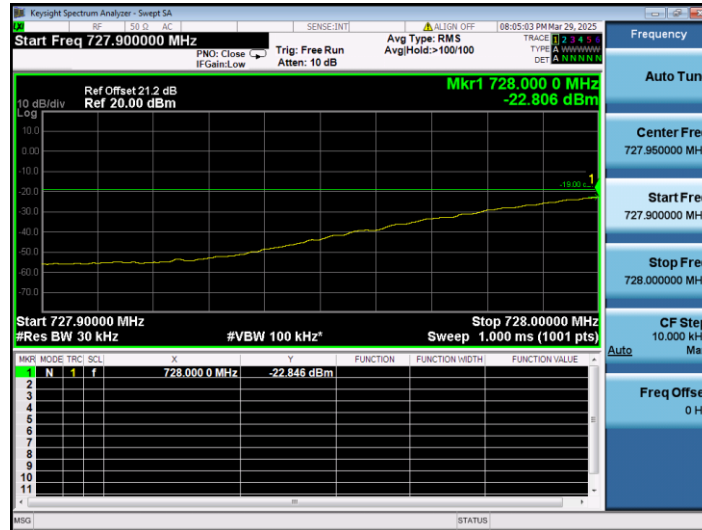
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Out-of-band emissions

DL_700MHz Band

1.25MHz AWGN signal input_Lower band edge_Pre-AGC



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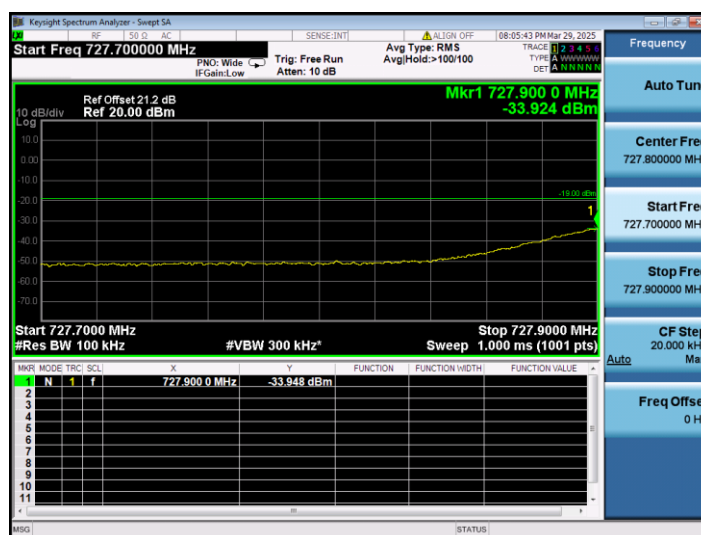
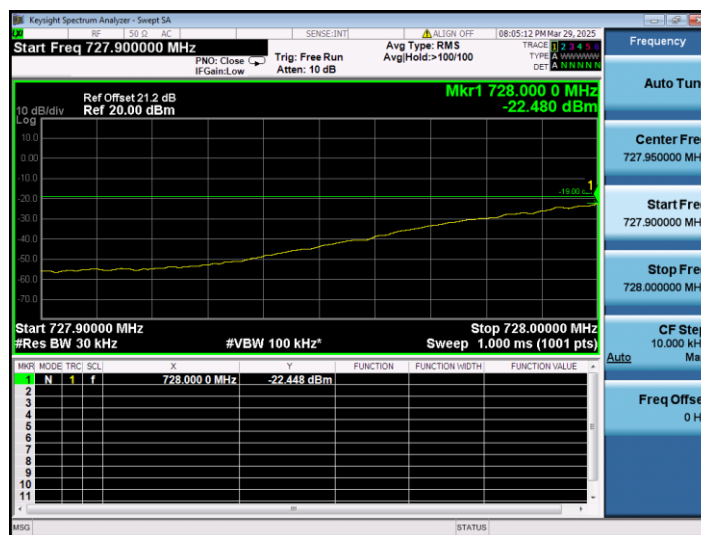
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Out-of-band emissions

DL_700MHz Band

1.25MHz AWGN signal input_Lower band edge_10dB above AGC



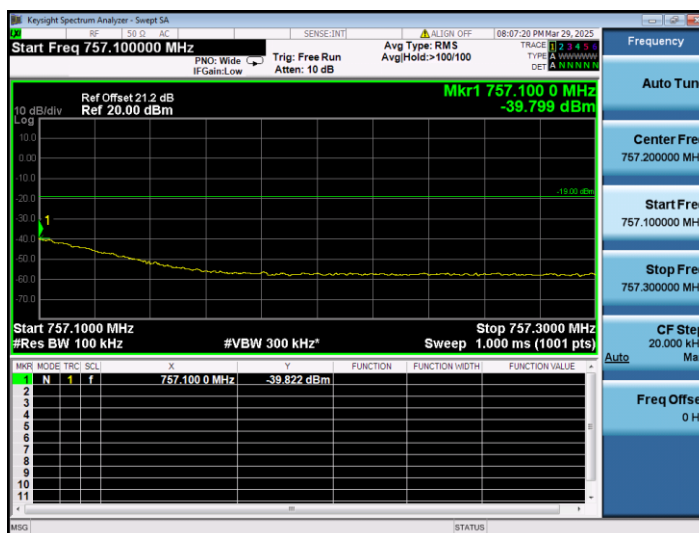
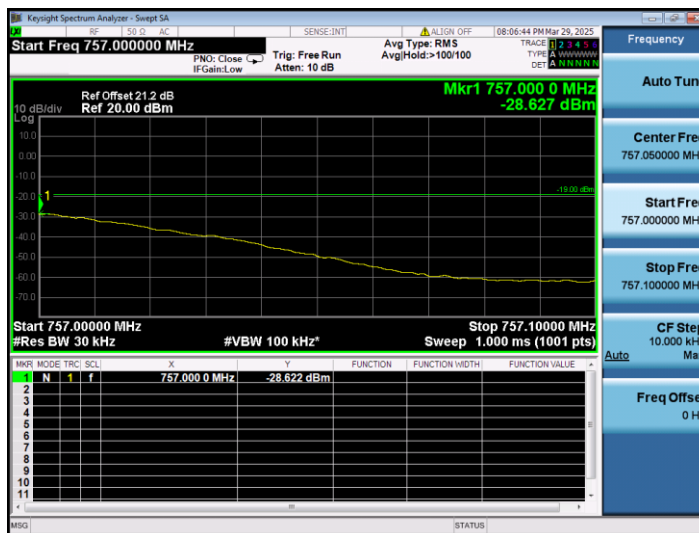
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Out-of-band emissions

DL_700MHz Band

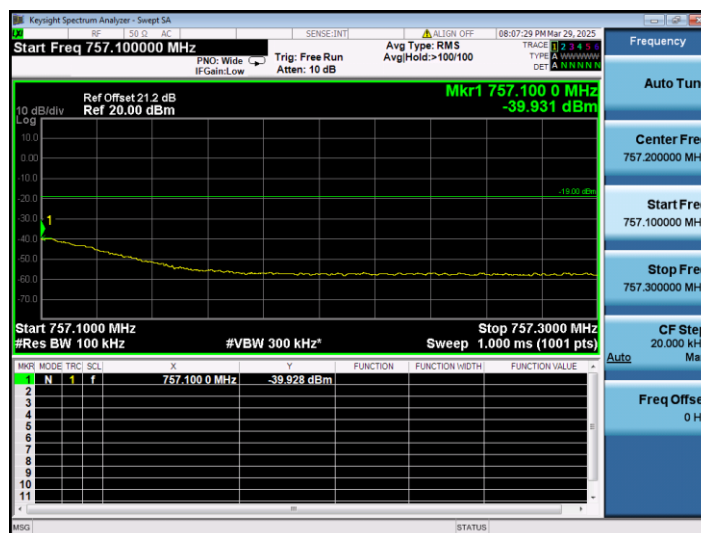
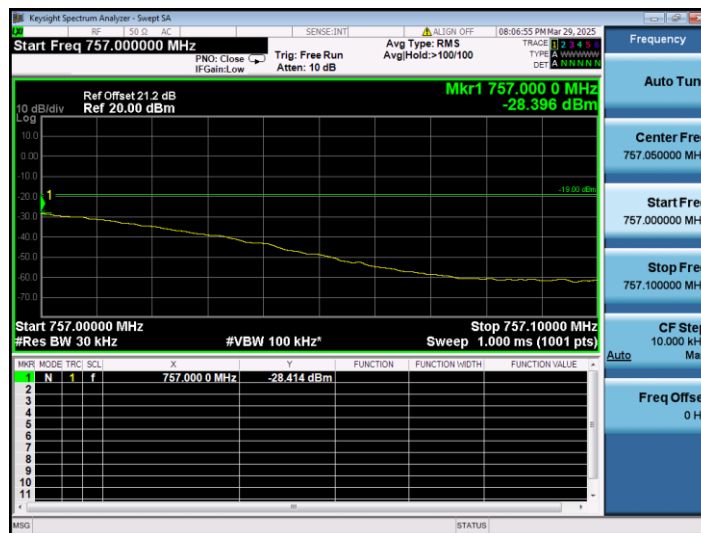
1.25MHz AWGN signal input_Upper band edge_Pre-AGC



Out-of-band emissions

DL_700MHz Band

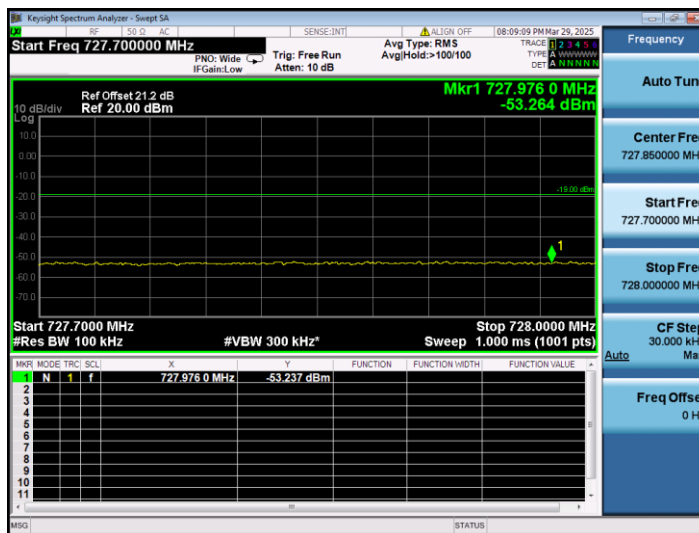
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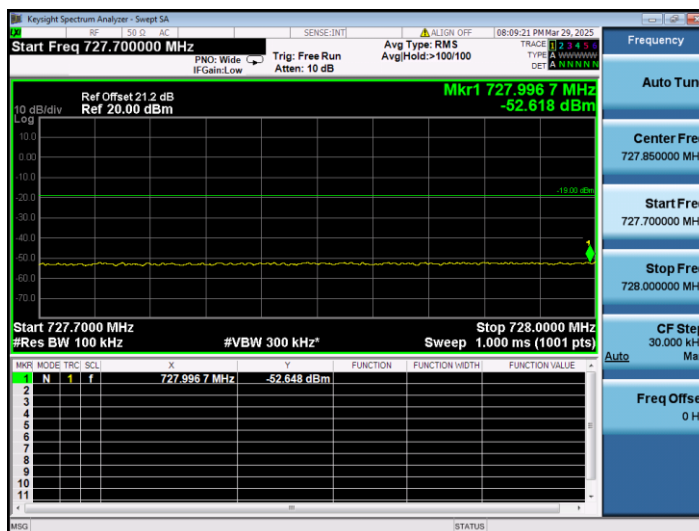
Out-of-band emissions

DL_700MHz Band

4.1MHz AWGN signal input_Lower band edge_Pre-AGC



4.1MHz AWGN signal input_Lower band edge_10dB above AGC



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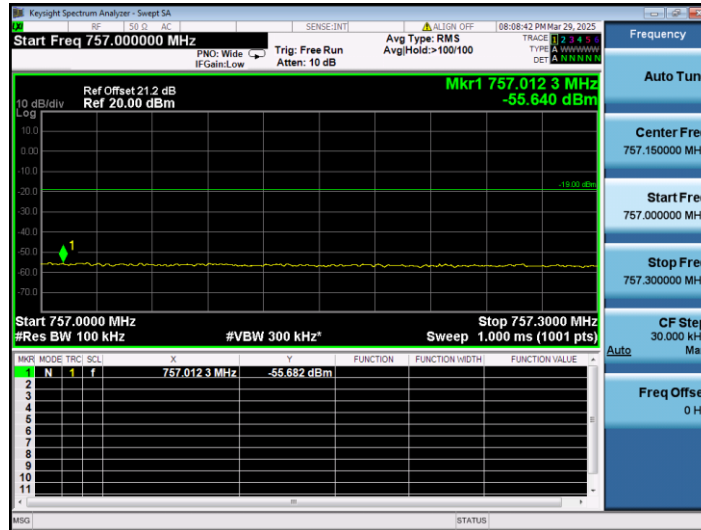
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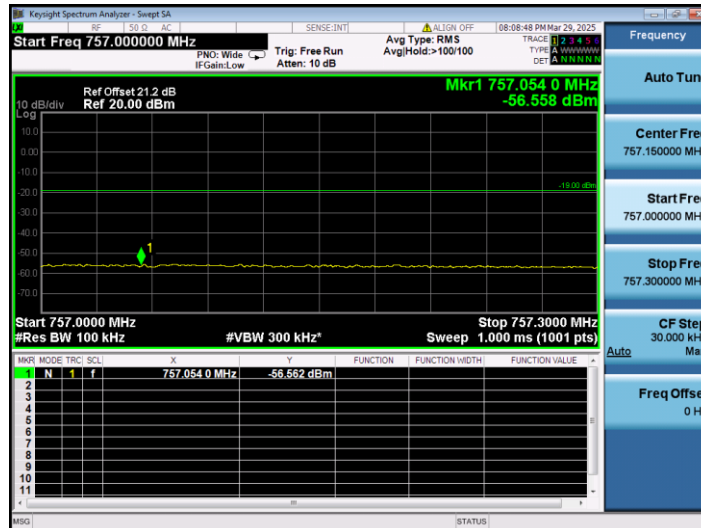
Out-of-band emissions

DL_700MHz Band

4.1MHz AWGN signal input_Upper band edge_Pre-AGC



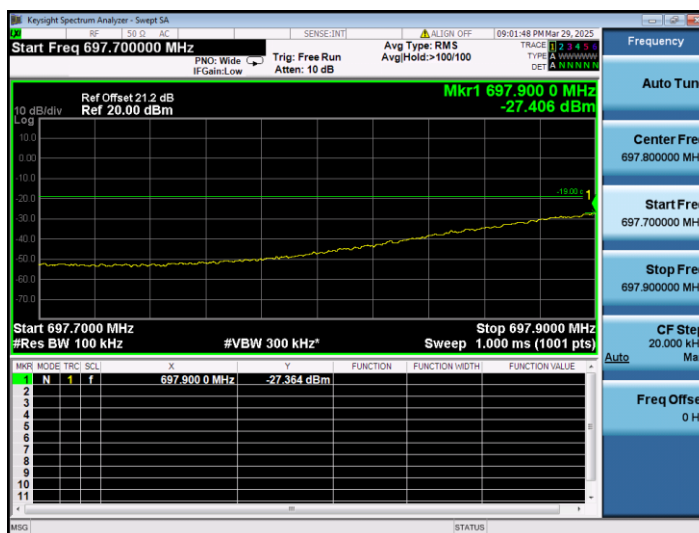
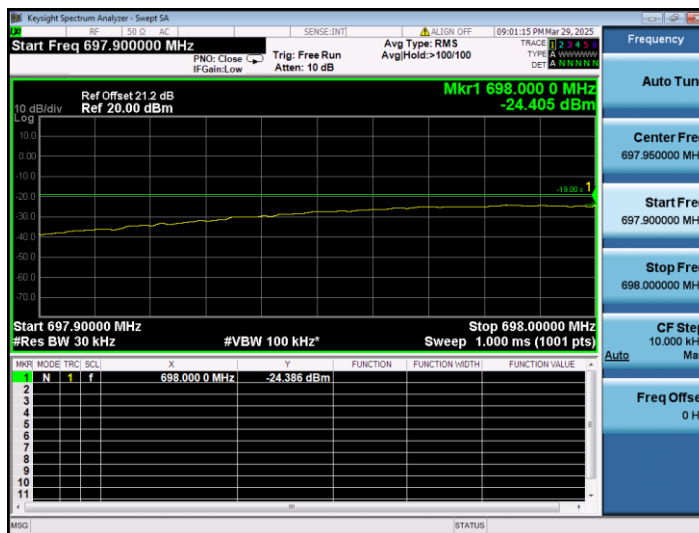
4.1MHz AWGN signal input_Upper band edge_10dB above AGC



Out-of-band emissions

UL_Lower 700MHz Band

GSM signal input_Lower band edge_Pre-AGC



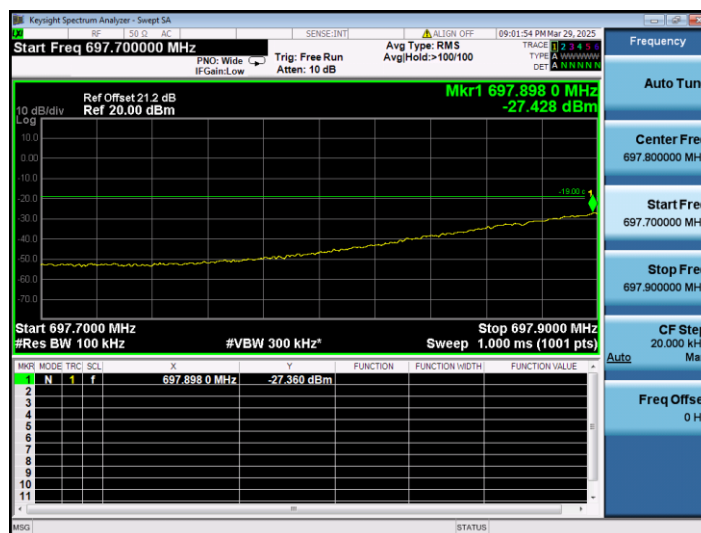
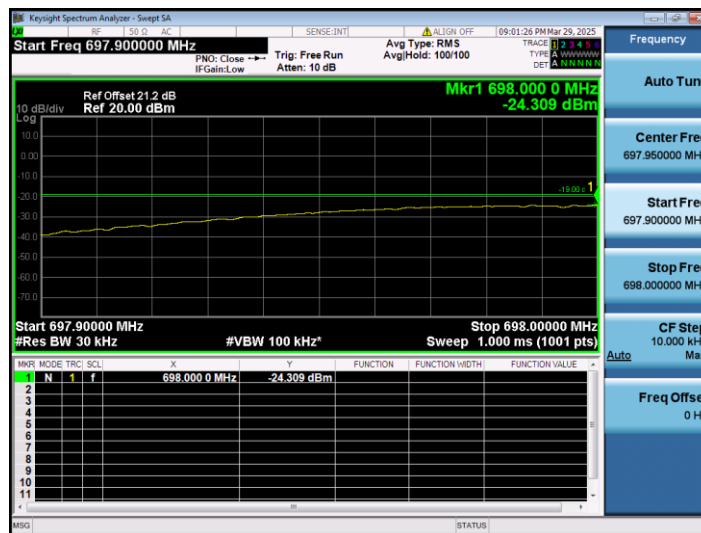
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Out-of-band emissions

UL_Lower 700MHz Band

GSM signal input_Lower band edge_10dB above AGC



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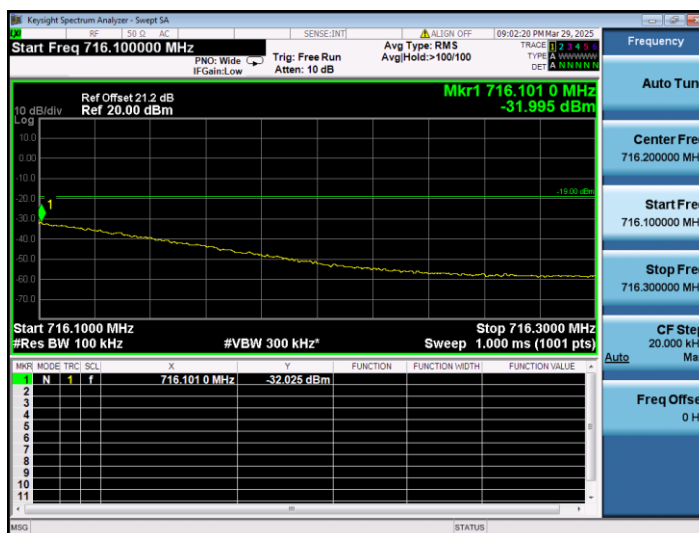
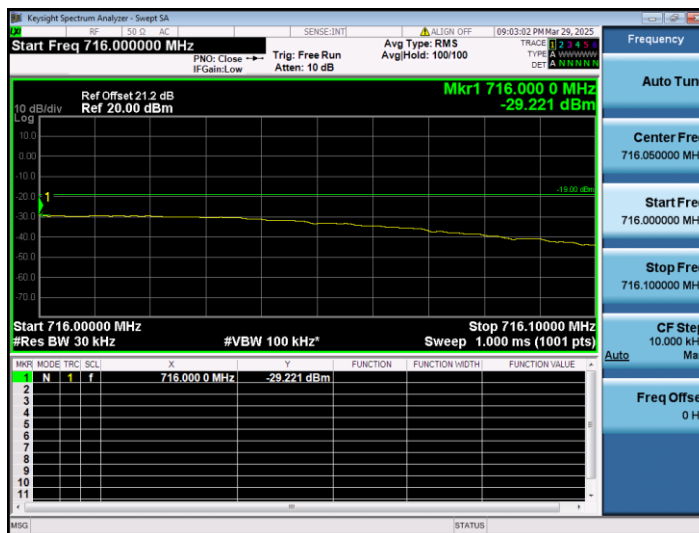
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Out-of-band emissions

UL_Lower 700MHz Band

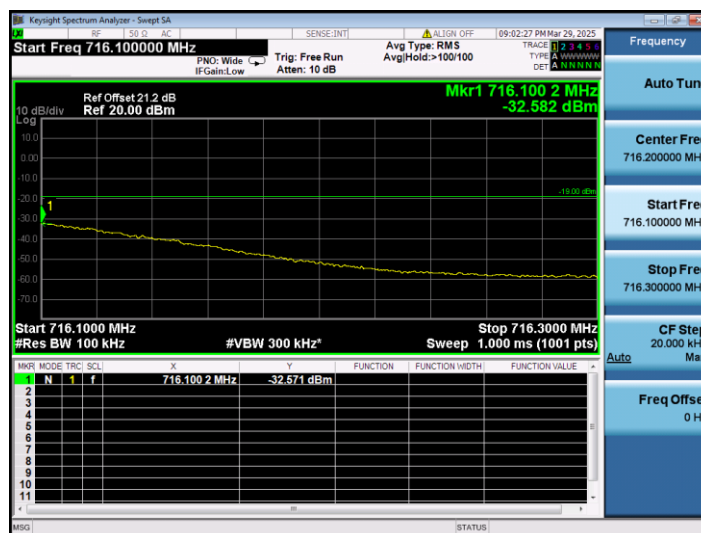
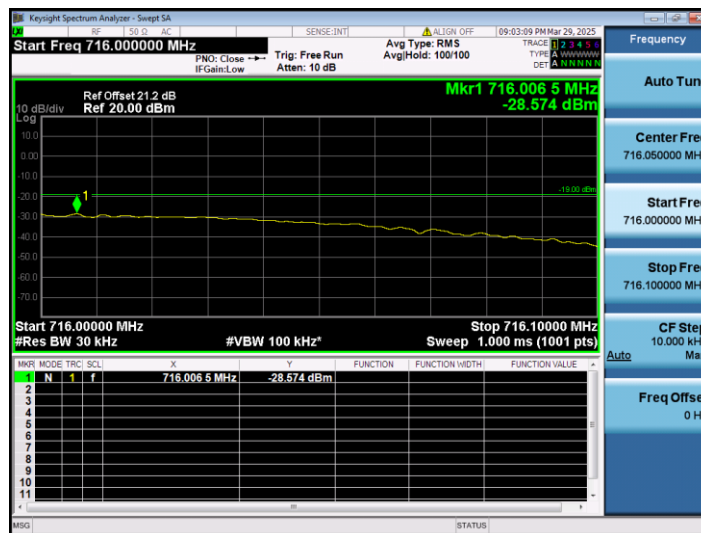
GSM signal input_Upper band edge_Pre-AGC



Out-of-band emissions

UL_Lower 700MHz Band

GSM signal input_Upper band edge_10dB above AGC



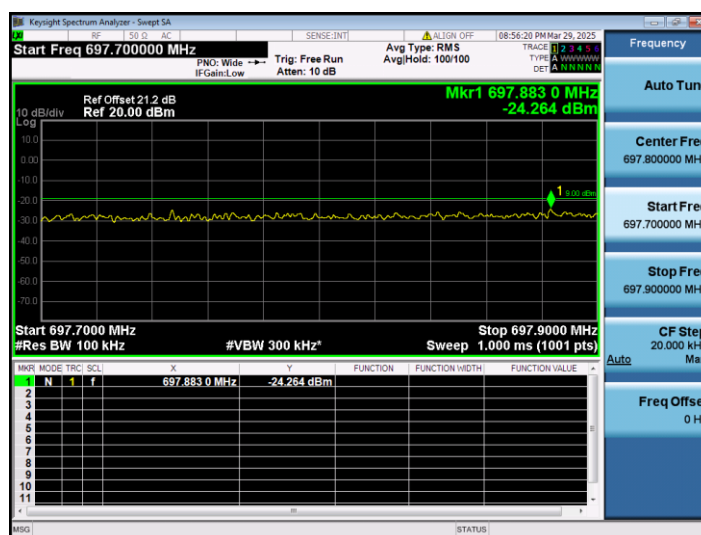
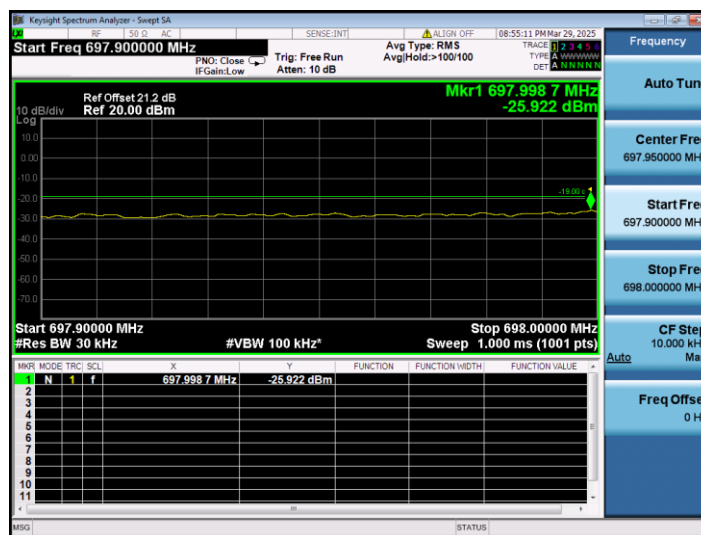
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Out-of-band emissions

UL_Lower 700MHz Band

1.25MHz AWGN signal input_Lower band edge_Pre-AGC



Out-of-band emissions

UL_Lower 700MHz Band

1.25MHz AWGN signal input_Lower band edge_10dB above AGC

