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Application No.: GZEM2101000418CR
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FCC ID: 2AYTR-SZZJ1

Appendix B

Test Data and Result Details of GZEM2101000418CR



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Guangzhou Branch, Testing Center, EEC Laboratory

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1 Authorized frequency band verification

Note: 1. EUT amplifies Lower 700MHz downlink (728-746MHz) and upper 700MHz downlink (746-756MHz) together, so combined frequency response plot was shown for authorized frequency band verification in this report.

2. Refer to the following plots, the frequency with the highest power level in each operational band f_0 is as below:

a) UPLINK

Lower 700MHz: 709.63MHz

Upper 700MHz: 781.97MHz

Cellular: 836.35MHz

AWS-1: 1745.29MHz

Broadband PCS: 1883.38MHz

b) DOWNLINK

700MHz: 746.10MHz

Cellular: 887.45MHz

AWS-1: 2149.83MHz

Broadband PCS: 1958.68MHz

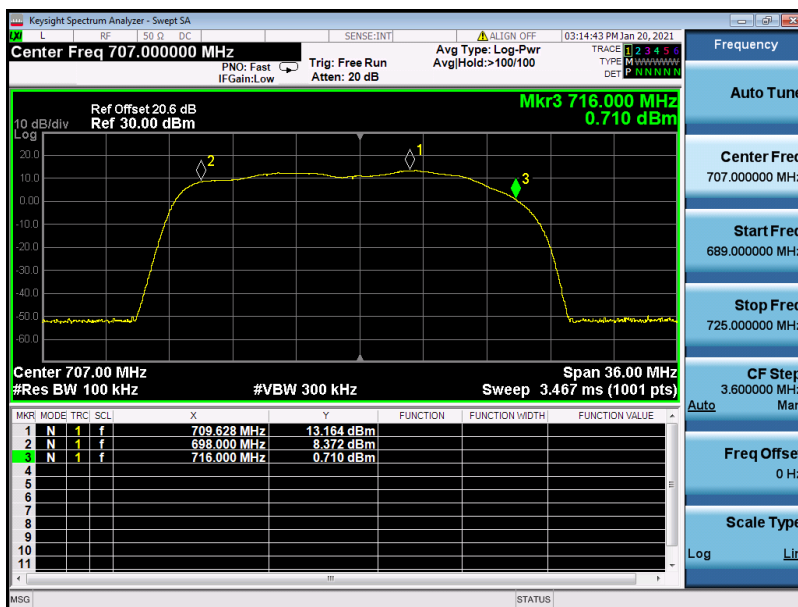


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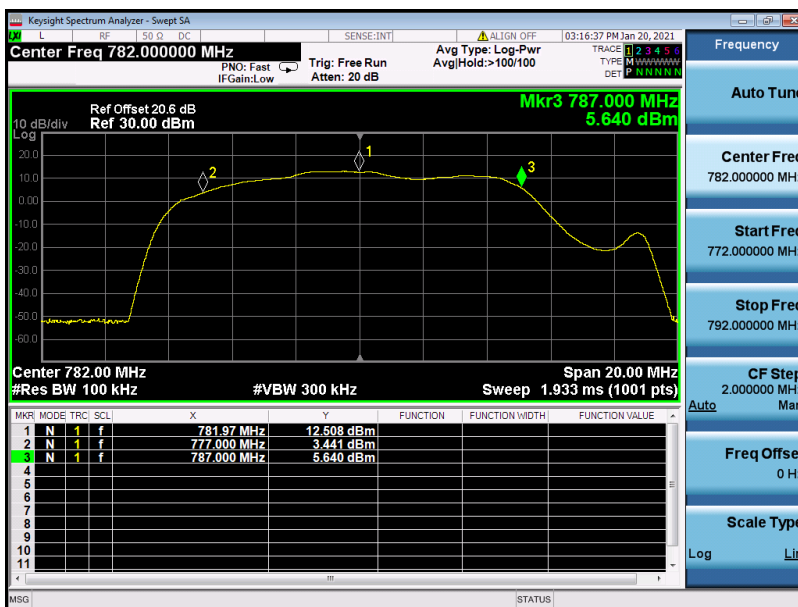
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UPLINK

Lower 700MHz Band



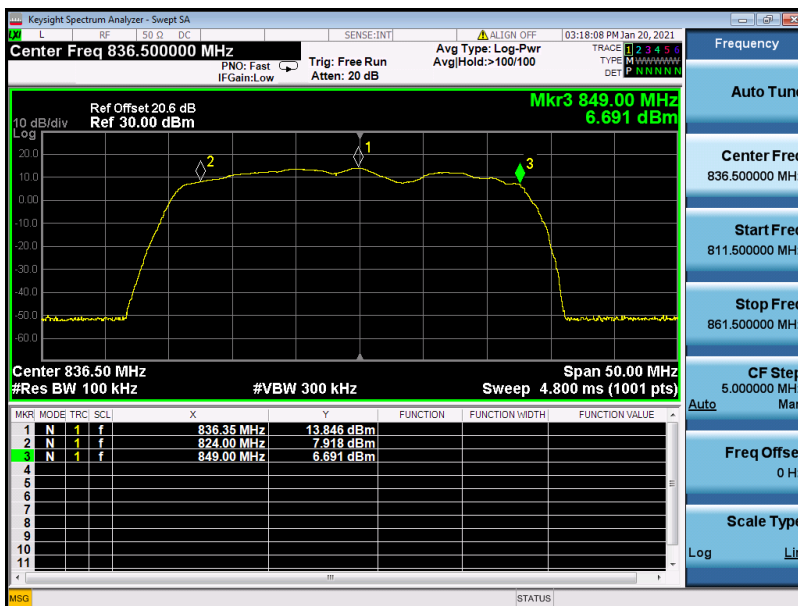
Upper 700MHz Band



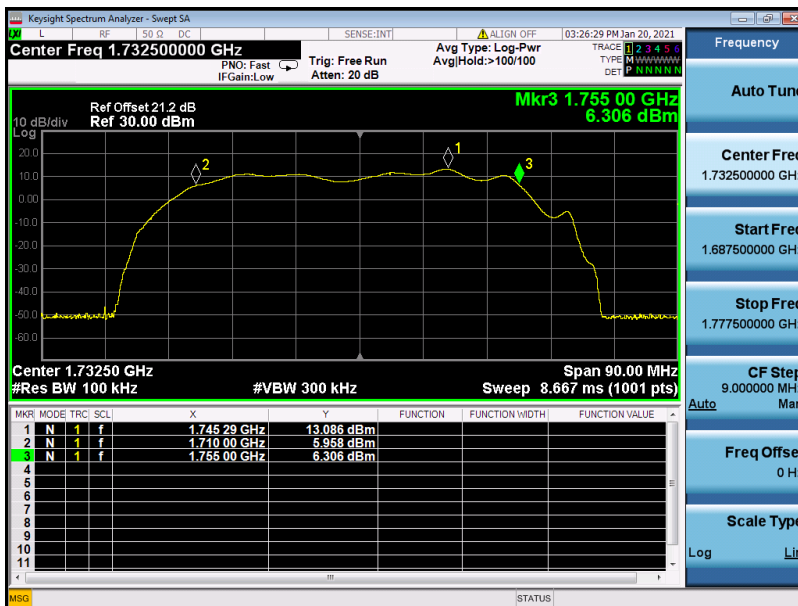
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Cellular Band



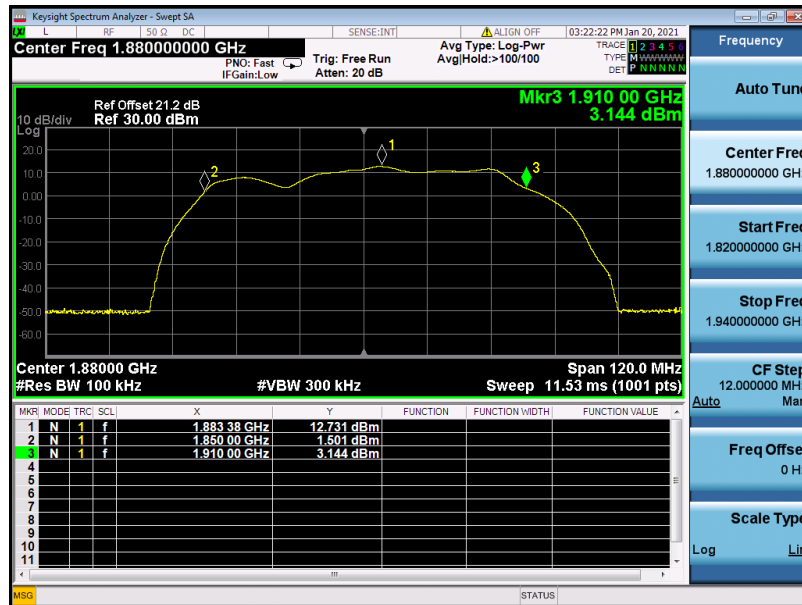
AWS-1 Band



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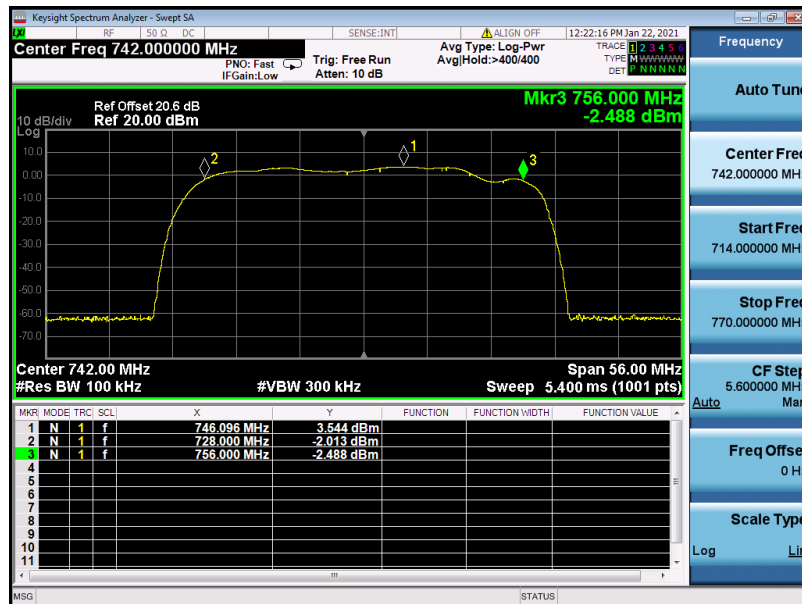
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Broadband PCS Band



DOWNLINK

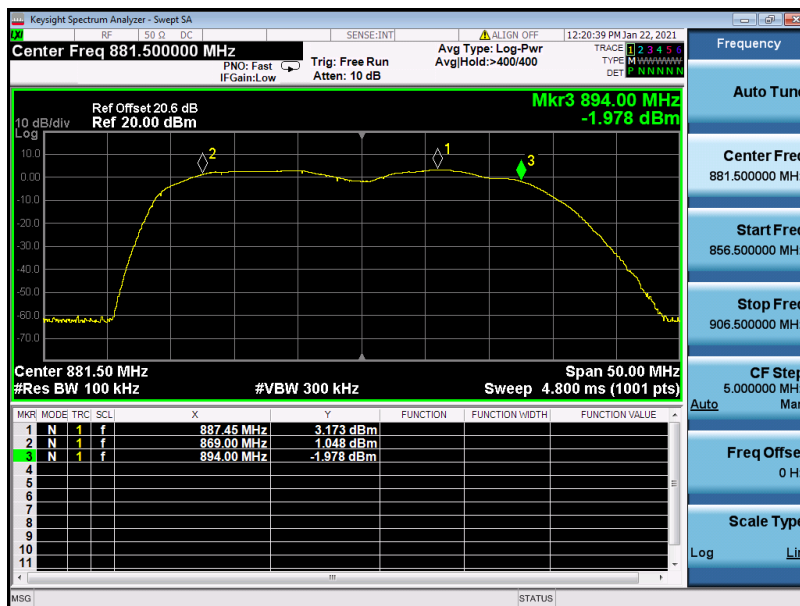
700MHz (Lower 700MHz + Upper 700MHz) Band



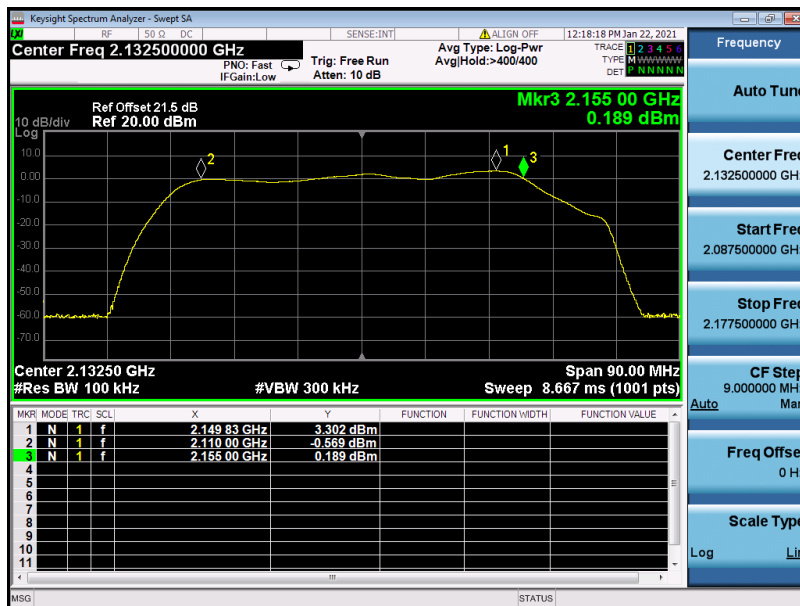
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Cellular Band



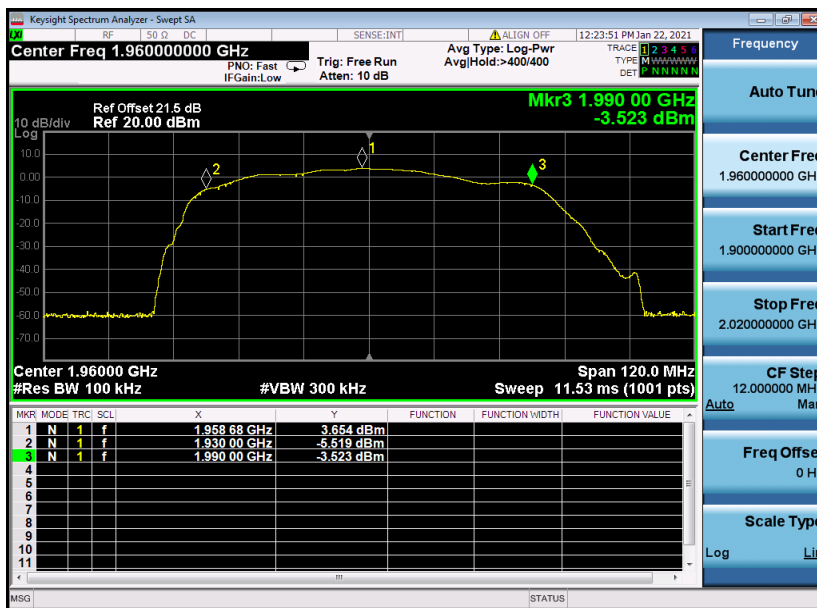
AWS-1 Band



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Broadband PCS Band



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2 Maximum power

- Note:
1. The following information was declared by the manufacturer:
 - a) the highest antenna gain: 10dBi
 - b) the minimum cable loss: 1dB
 - c) coupling device: no
 2. The test frequency f_0 was determined in Authorized frequency band verification, please refer to clause 1 in this report for more details.



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Maximum Output Power							
Path	Band	Signal Type	Input Power ¹ (dBm)	Conducted Output Power (dBm)	EIRP ² (dBm)	Limit (dBm)	Verdict
UPLINK	Lower 700MHz	AWGN	-44.9	14.16	23.16	≥17 & ≤30	PASS
		GSM	-42.4	16.23	25.23		PASS
	Upper 700MHz	AWGN	-43.5	14.95	23.95		PASS
		GSM	-42.6	15.83	24.83		PASS
	Cellular	AWGN	-43.9	13.96	22.96		PASS
		GSM	-40.3	15.72	24.72		PASS
	AWS-1	AWGN	-46.3	12.74	21.74		PASS
		GSM	-42.2	15.16	24.16		PASS
	Broadband PCS	AWGN	-46.1	13.23	22.23		PASS
		GSM	-42.9	16.16	25.16		PASS
DOWNLINK	700MHz	AWGN	-54.3	6.93	15.93	≤17	PASS
		GSM	-54.9	4.96	13.96		PASS
	Cellular	AWGN	-53.7	6.53	15.53		PASS
		GSM	-54.6	5.22	14.22		PASS
	AWS-1	AWGN	-51.1	7.36	16.36		PASS
		GSM	-53.4	5.27	14.27		PASS
	Broadband PCS	AWGN	-53.4	7.34	16.34		PASS
		GSM	-55.0	5.62	14.62		PASS

Remark:

1. The input power was a level just below and within 0.5dB of the AGC limit without triggering the AGC.

Please refer to the following table for more details for AGC level.

2. EIRP = Conducted Output Power + Antenna Gain – Cable loss





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Maximum Input Power						
Path	Band	Signal Type	Maximum Input Power (dBm)	AGC Level (dBm)	Limit (dBm)	Verdict
UPLINK	Lower 700MHz	AWGN	-23.5	-44.5	≤27	PASS
		GSM	-20.7	-41.9		PASS
	Upper 700MHz	AWGN	-20.8	-42.8		PASS
		GSM	-22.6	-42.3		PASS
	Cellular	AWGN	-22.4	-43.6		PASS
		GSM	-19.3	-40.0		PASS
	AWS-1	AWGN	-24.9	-46.0		PASS
		GSM	-21.4	-41.9		PASS
	Broadband PCS	AWGN	-23.5	-45.8		PASS
		GSM	-20.3	-42.5		PASS
DOWNLINK	700MHz	AWGN	-32.4	-53.9	≤-20	PASS
		GSM	-33.1	-54.5		PASS
	Cellular	AWGN	-31.8	-53.4		PASS
		GSM	-32.7	-54.2		PASS
	AWS-1	AWGN	-29.6	-50.7		PASS
		GSM	-31.4	-53.0		PASS
	Broadband PCS	AWGN	-30.7	-52.9		PASS
		GSM	-33.5	-54.6		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

Note: 1. Fixed Booster maximum gain shall not exceed $6.5 \text{ dB} + 20 \text{ Log}_{10} (F)$, F is the uplink mid-band frequency of the supported spectrum bands in MHz, so,

for Lower 700MHz, limit = $6.5 \text{ dB} + 20 \text{ Log}_{10} (707) = 63.49\text{dB}$

for Upper 700MHz, limit = $6.5 \text{ dB} + 20 \text{ Log}_{10} (782) = 64.36\text{dB}$

for Cellular, limit = $6.5 \text{ dB} + 20 \text{ Log}_{10} (836.5) = 64.95\text{dB}$

for AWS-1, limit = $6.5 \text{ dB} + 20 \text{ Log}_{10} (1732.5) = 71.27\text{dB}$

for Broadband PCS, limit = $6.5 \text{ dB} + 20 \text{ Log}_{10} (1880) = 71.98\text{dB}$

2. Equivalent uplink and downlink gain, limit:

$|UL \text{ Gain} - DL \text{ Gain}| \leq 9\text{dB}$



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Maximum Gain							
Path	Band	Signal Type	Input Power ¹ (dBm)	Conducted Output Power (dBm)	Gain (dB)	Limit (dB)	Verdict
UPLINK	Lower 700MHz	AWGN	-44.9	14.16	59.06	≤63.49	PASS
		GSM	-42.4	16.23	58.63		PASS
	Upper 700MHz	AWGN	-43.5	14.95	58.45	≤64.36	PASS
		GSM	-42.6	15.83	58.43		PASS
	Cellular	AWGN	-43.9	13.96	57.86	≤64.95	PASS
		GSM	-40.3	15.72	56.02		PASS
	AWS-1	AWGN	-46.3	12.74	59.04	≤71.27	PASS
		GSM	-42.2	15.16	57.36		PASS
	Broadband PCS	AWGN	-46.1	13.23	59.33	≤71.98	PASS
		GSM	-42.9	16.16	59.06		PASS
DOWNLINK	700MHz	AWGN	-54.3	6.93	61.23	≤63.49	PASS
		GSM	-54.9	4.96	59.86		PASS
	Cellular	AWGN	-53.7	6.53	60.23	≤64.95	PASS
		GSM	-54.6	5.22	59.82		PASS
	AWS-1	AWGN	-51.1	7.36	58.46	≤71.27	PASS
		GSM	-53.4	5.27	58.67		PASS
	Broadband PCS	AWGN	-53.4	7.34	60.74	≤71.98	PASS
		GSM	-55.0	5.62	60.62		PASS
Remark:							
1. The input power was a level just below and within 0.5dB of the AGC limit without triggering the AGC.							
Please refer to clause 2 in this report for more details for AGC level.							





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Equivalent Uplink and Downlink Gain						
Band	Signal Type	Uplink Gain (dB)	Downlink Gain (dB)	UL Gain – DL Gain (dB)	Limit (dB)	Verdict
Lower 700MHz	AWGN	59.06	61.23	2.17	≤9	PASS
	GSM	58.63	59.86	1.23		PASS
Upper 700MHz	AWGN	58.45	61.23	2.78		PASS
	GSM	58.43	59.86	1.43		PASS
Cellular	AWGN	57.86	60.23	2.37		PASS
	GSM	56.02	59.82	3.8		PASS
AWS-1	AWGN	59.04	58.46	0.58		PASS
	GSM	57.36	58.67	1.31		PASS
Broadband PCS	AWGN	59.33	60.74	1.41		PASS
	GSM	59.06	60.62	1.56		PASS



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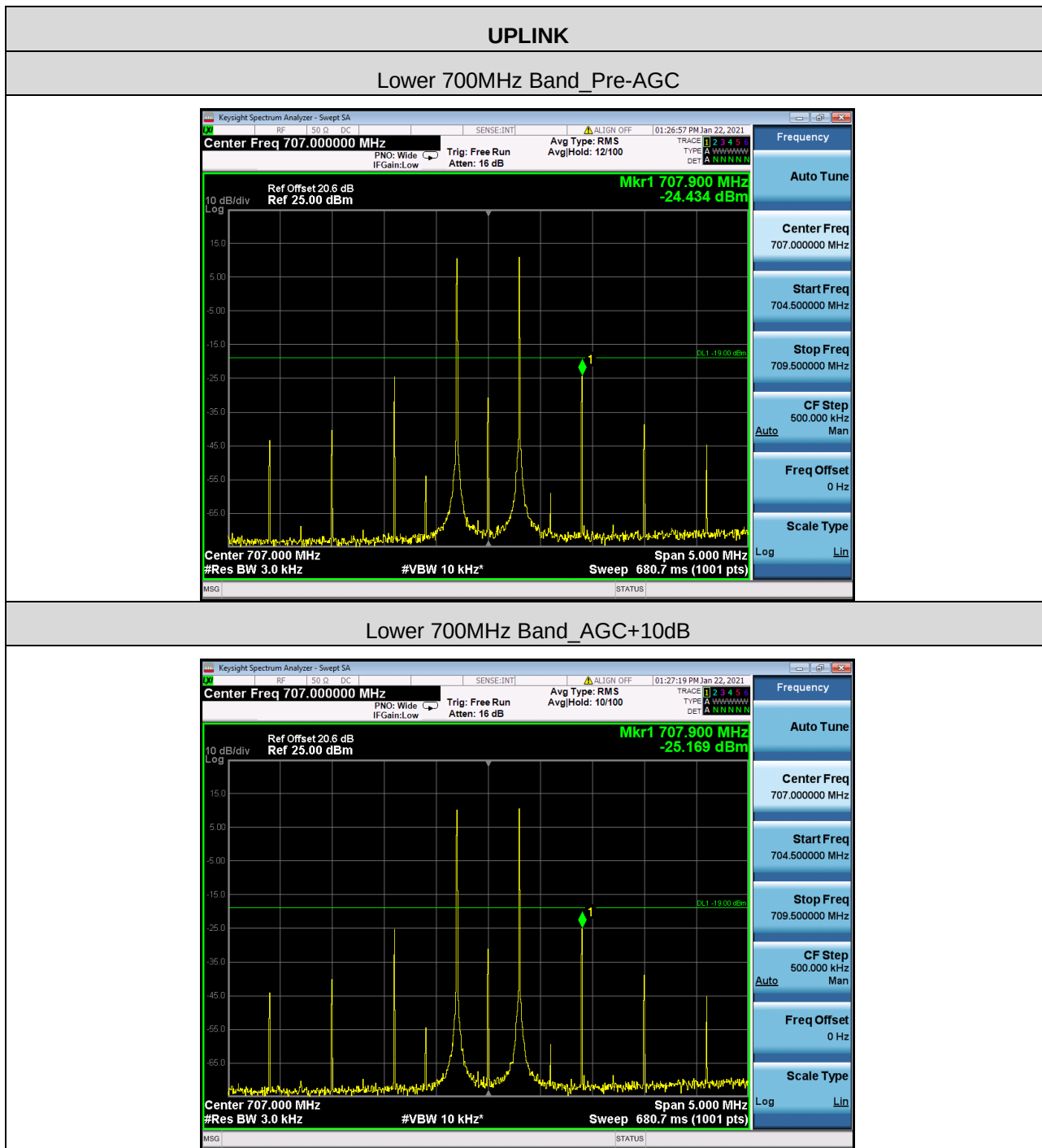
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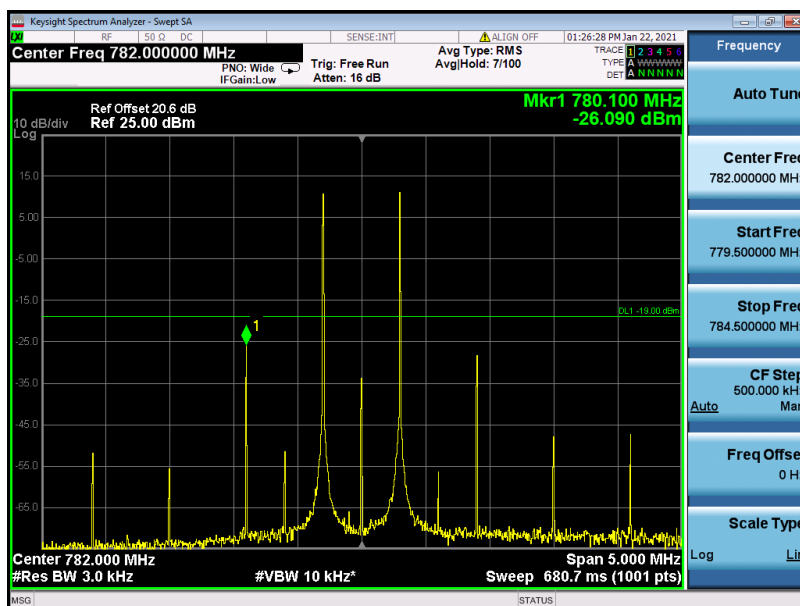
4 Intermodulation product



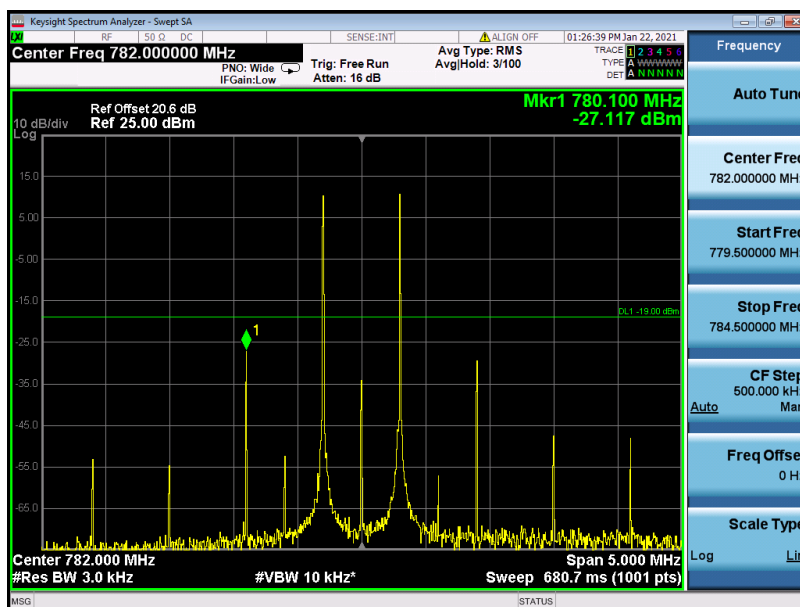
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Upper 700MHz Band_Pre-AGC



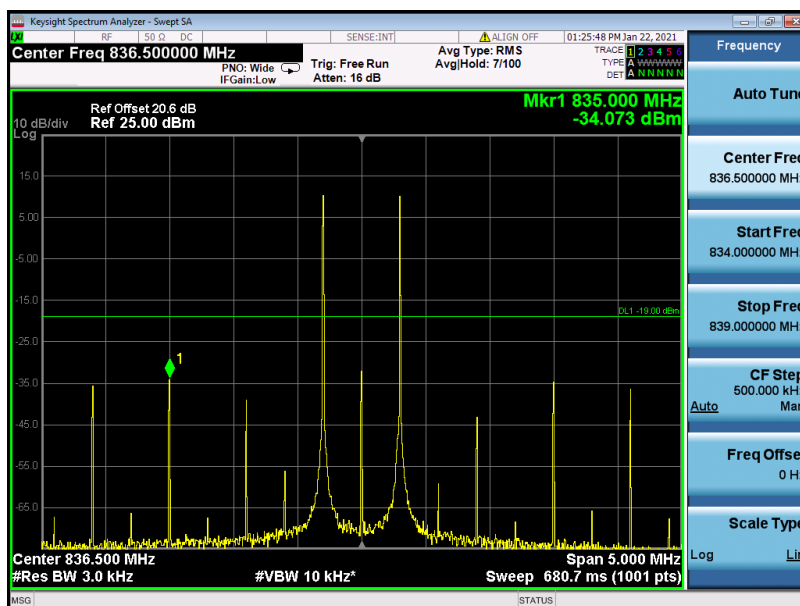
Upper 700MHz Band_AGC+10dB



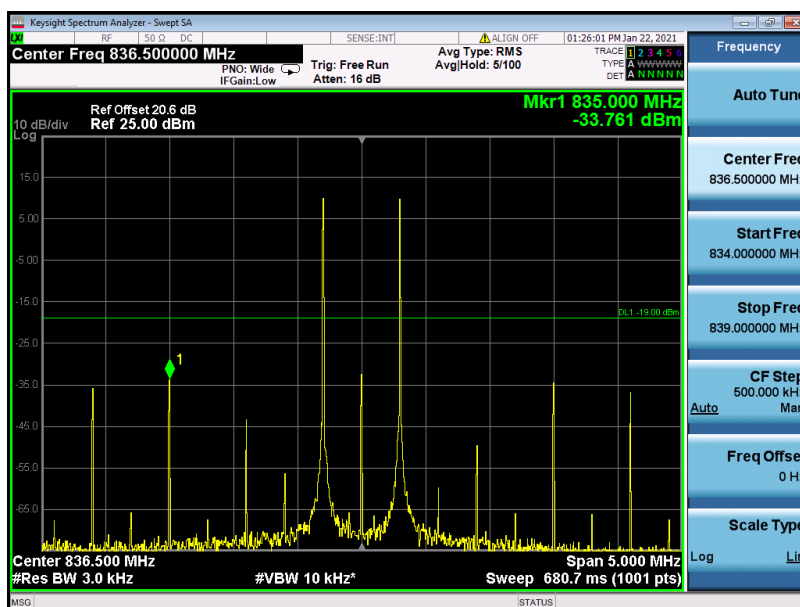
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Cellular Band_Pre-AGC



Cellular Band_AG+10dB

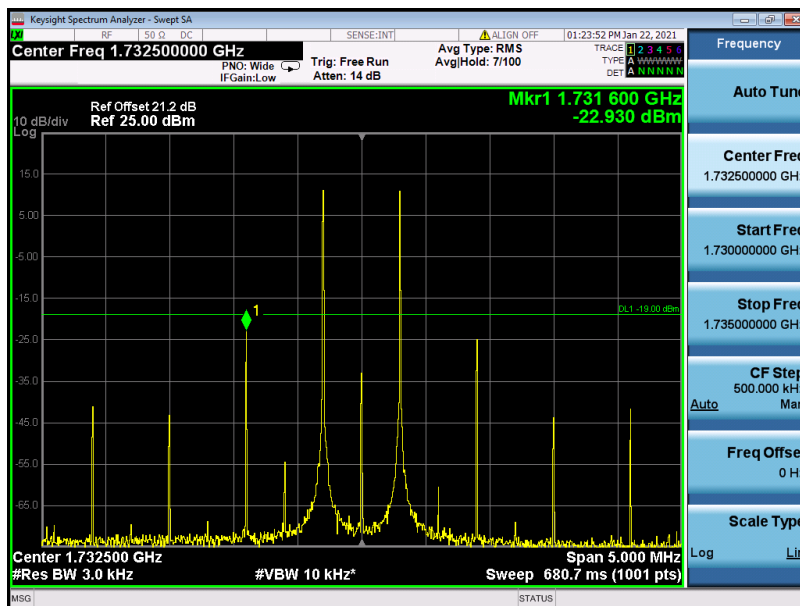


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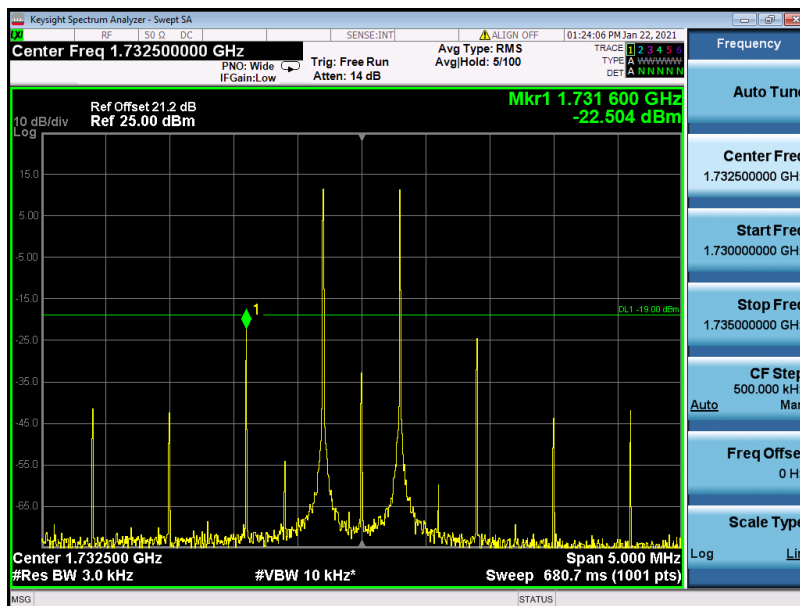
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AWS-1 Band_Pre-AGC



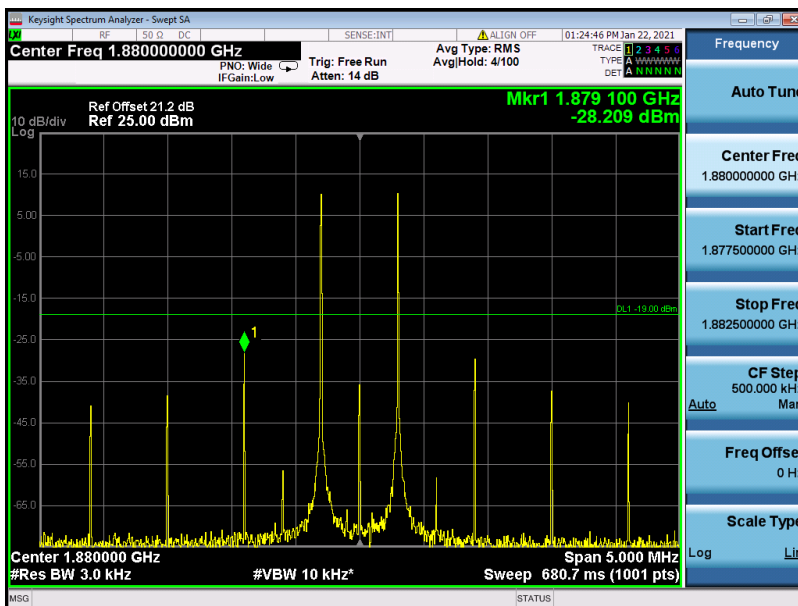
AWS-1 Band_AGC+10dB



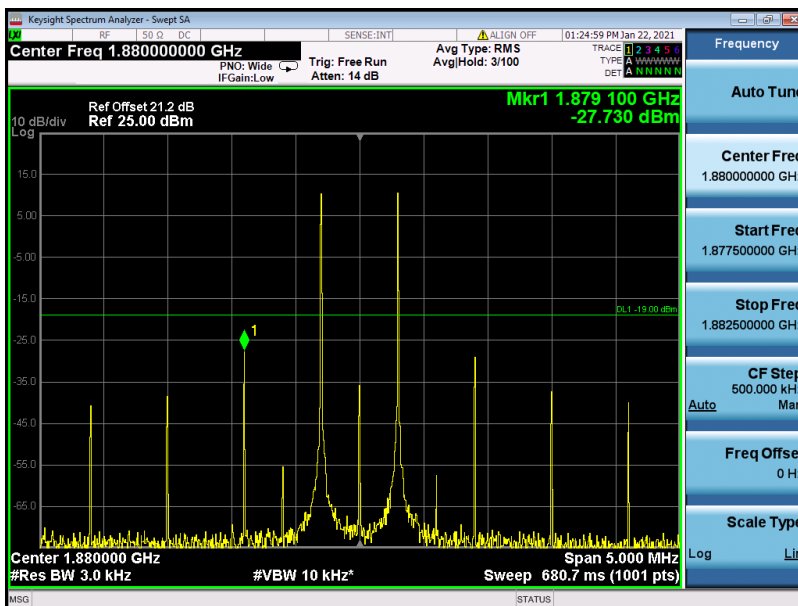
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Broadband PCS Band_Pre-AGC



Broadband PCS Band_AGC+10dB



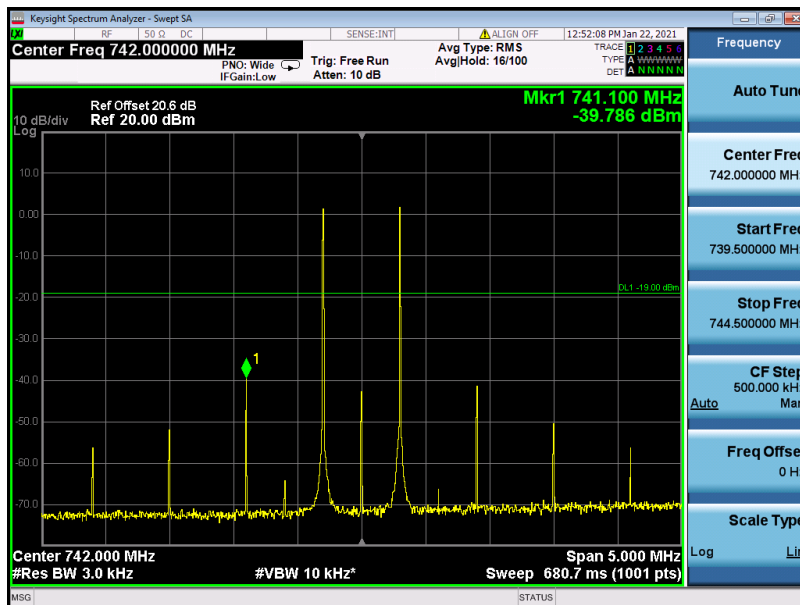
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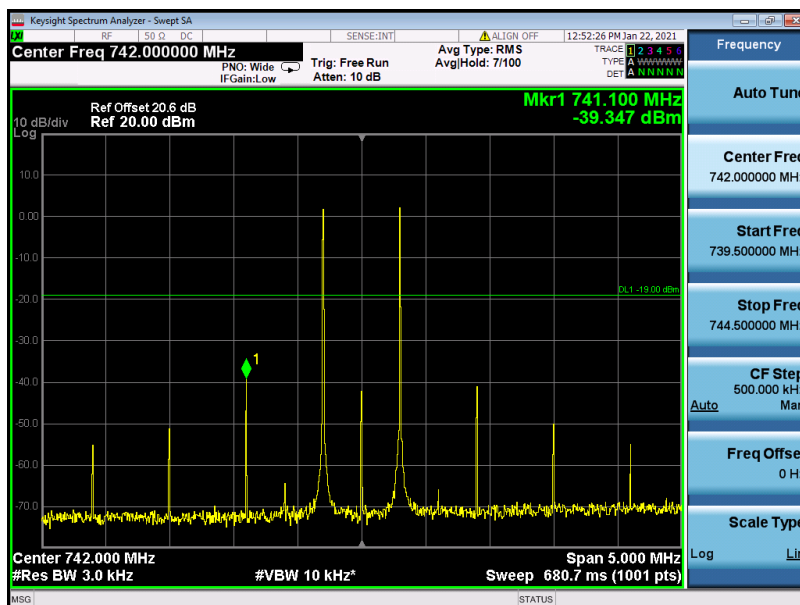
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DOWNLINK

700MHz (Lower 700MHz + Upper 700MHz) Band_Pre-AGC



700MHz (Lower 700MHz + Upper 700MHz) Band_AGC+10dB



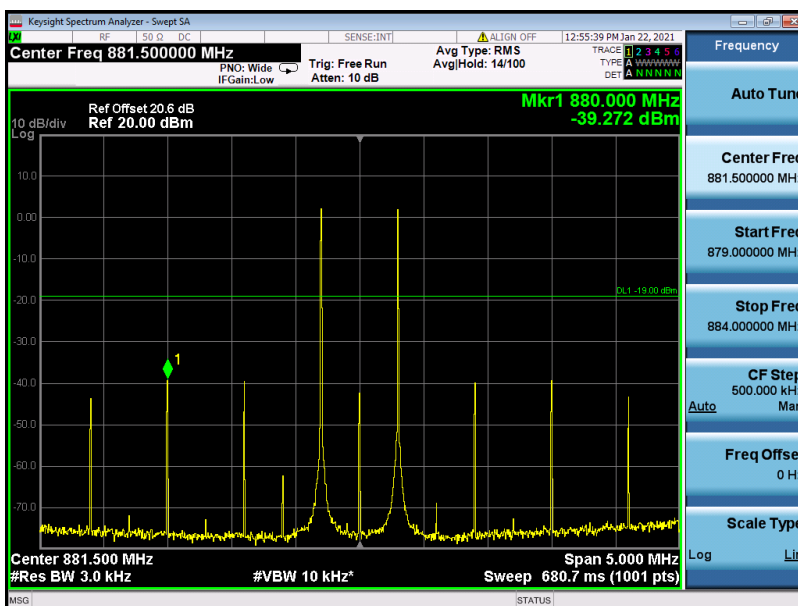
Remark: EUT amplifies Lower 700MHz downlink (728-746MHz) and upper 700MHz downlink (746-756MHz) together, so combined frequency was measured for intermodulation product in this report, the center frequency is 742MHz.



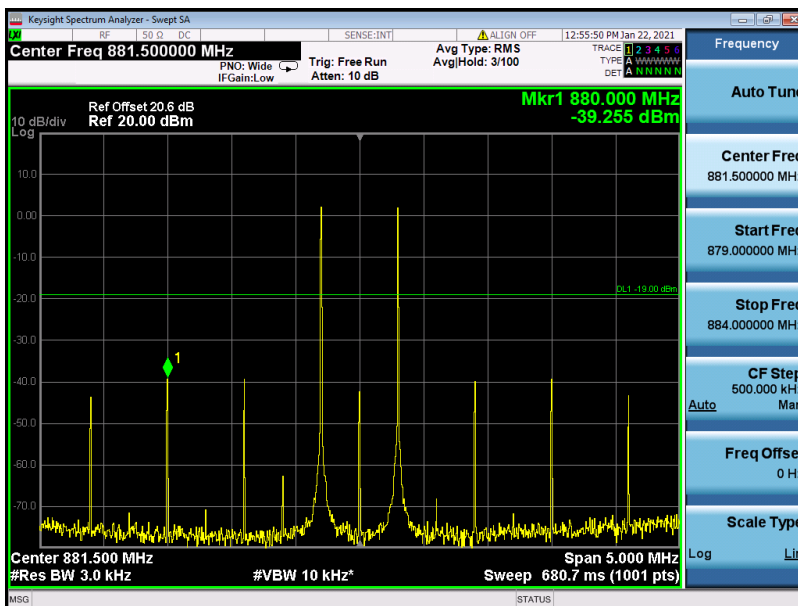
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Cellular Band_Pre-AGC



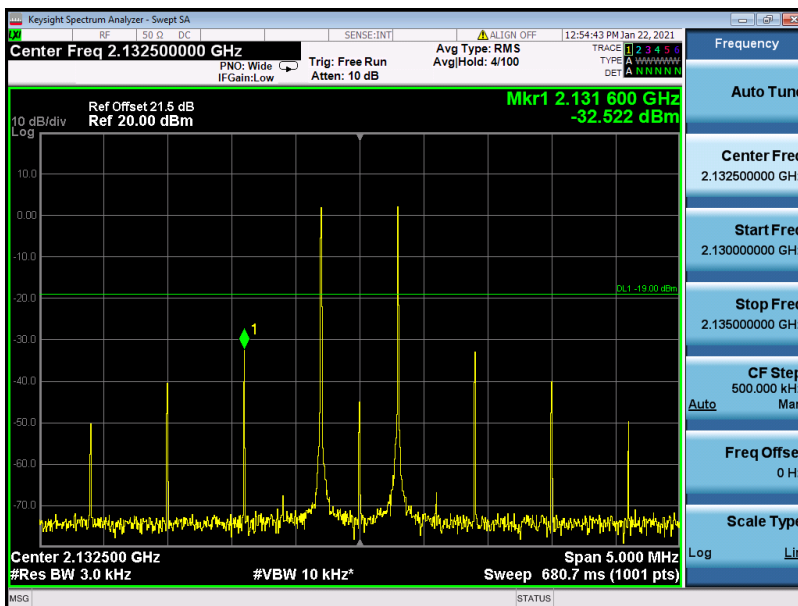
Cellular Band_AG+10dB



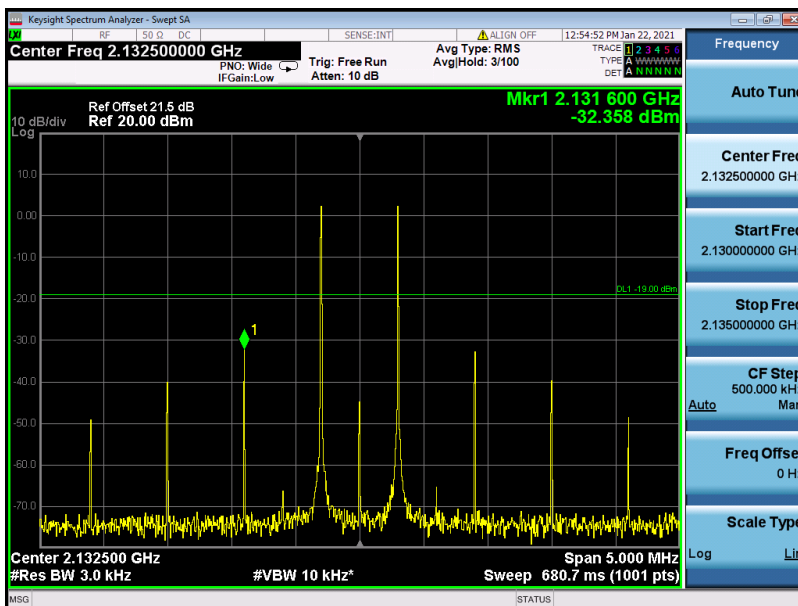
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AWS-1 Band_Pre-AGC



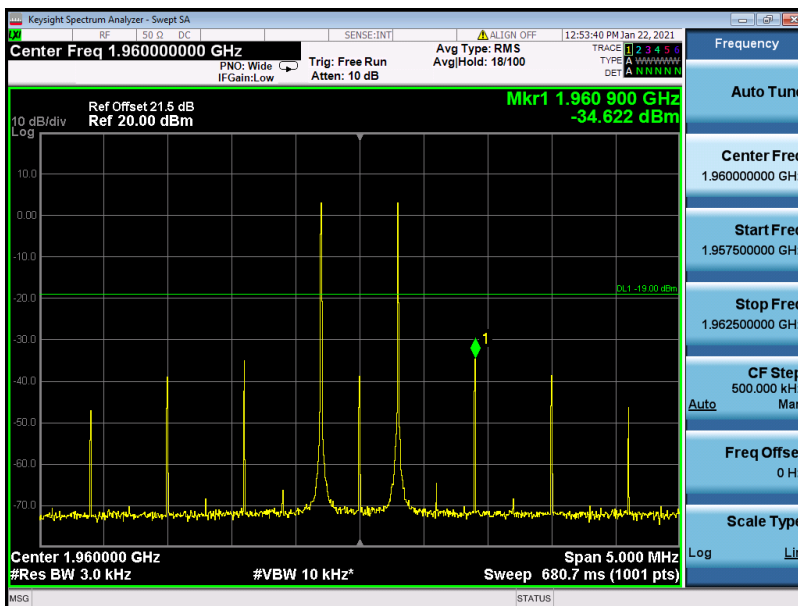
AWS-1 Band_AG+10dB



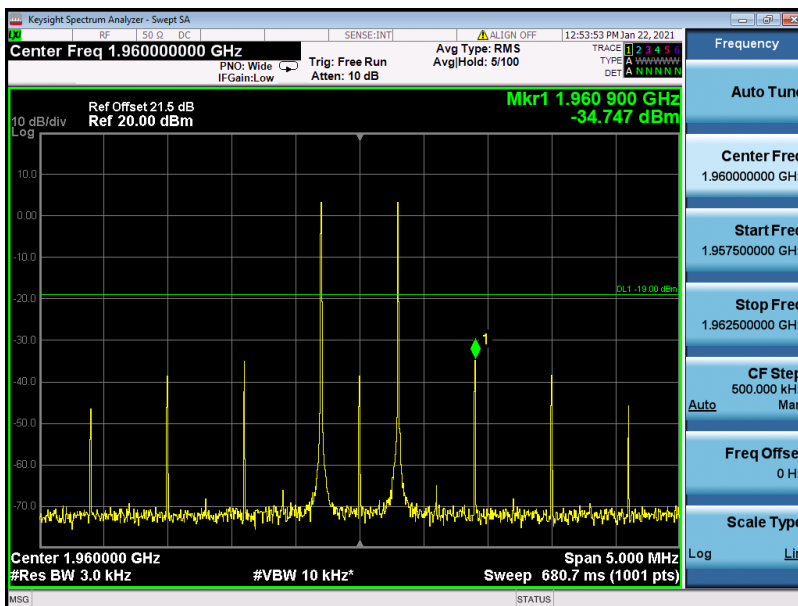
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Broadband PCS Band_Pre-AGC



Broadband PCS Band_AG+10dB



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5 Out-of-band emissions

Note:

1. 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.

According to the requirement of part 27.53(c), 27.53(g), 27.53(h), 22.917, 24.238, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

So,

Out-of-band emission limit = $\{P - [43 + 10 \log_{10} (P)]\} - 6\text{dB} = -19\text{dBm}$

2. EUT amplifies Lower 700MHz downlink (728-746MHz) and upper 700MHz downlink (746-756MHz) together, so combined frequency was measured for out-of-band emissions in this report.

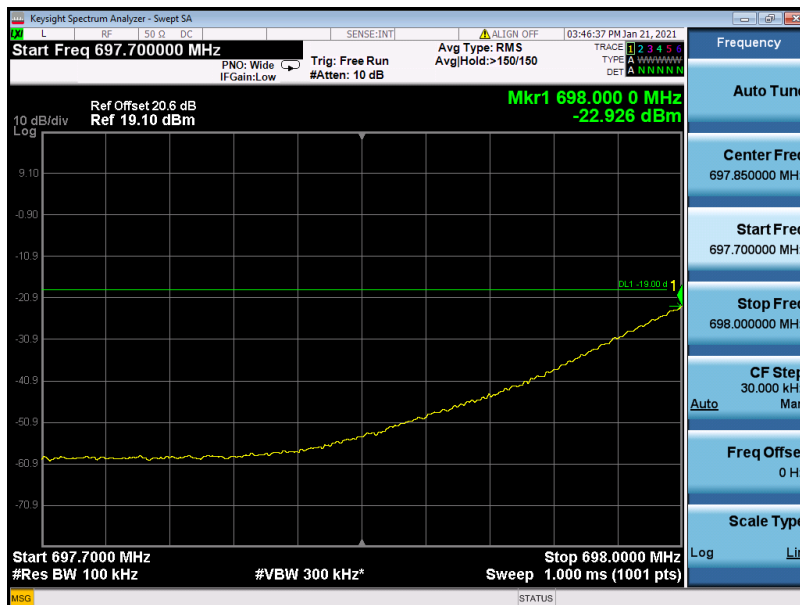


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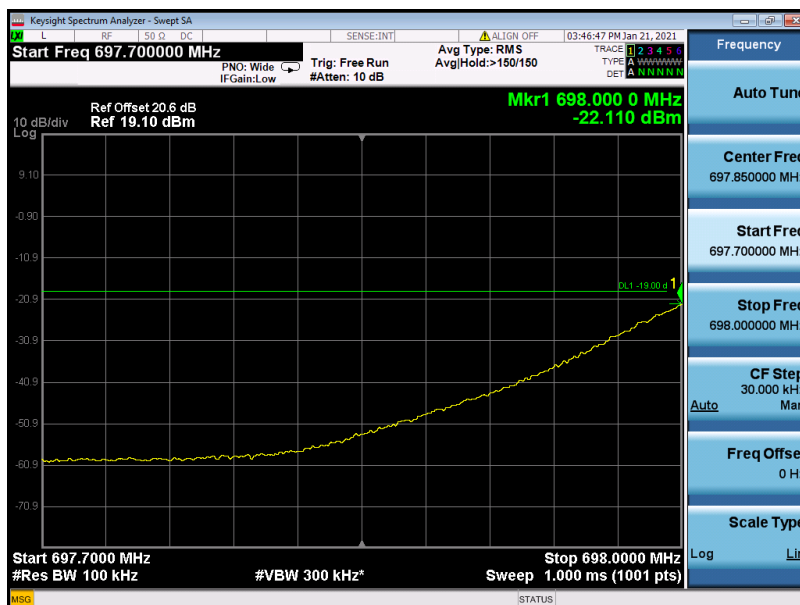
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UPLINK_GSM signal type

Lower 700MHz Band_Lower band edge_Pre-AGC



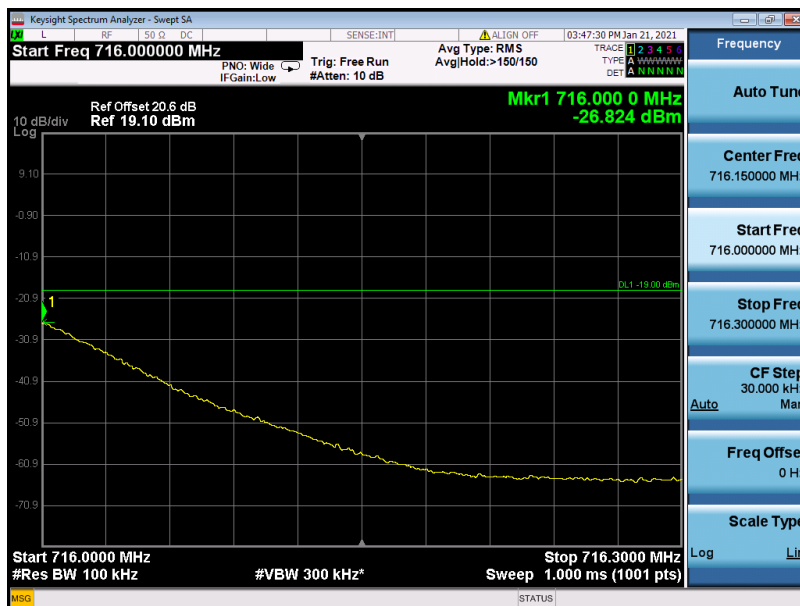
Lower 700MHz Band_Lower band edge_AG+10dB



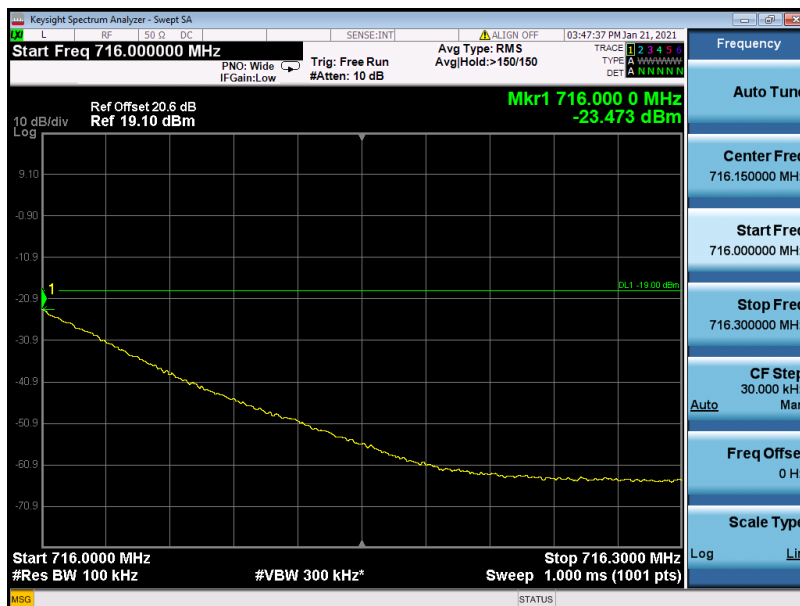
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Lower 700MHz Band_Upper band edge_Pre-AGC



Lower 700MHz Band_Upper band edge_AGC+10dB

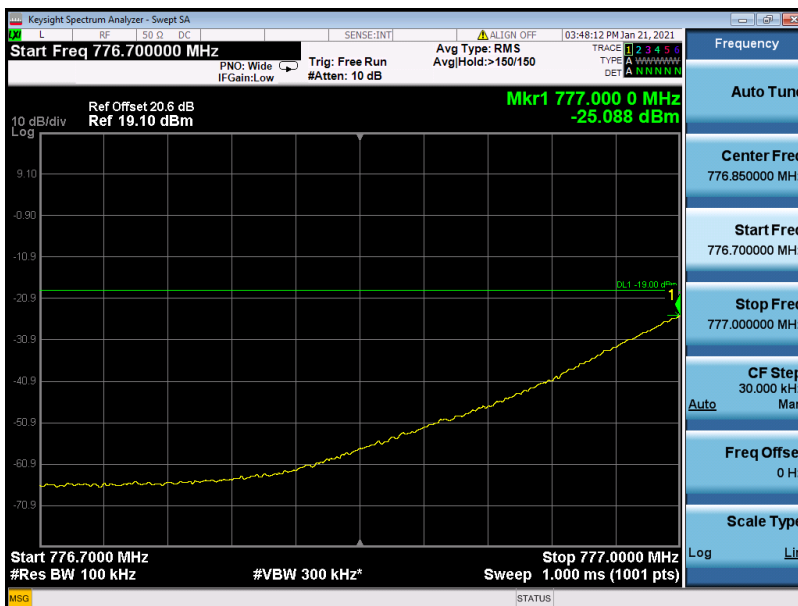


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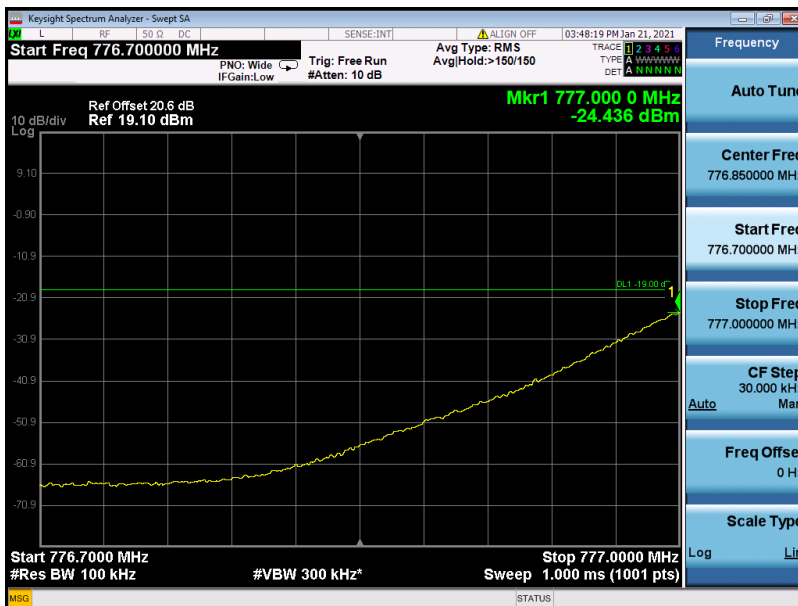
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Upper 700MHz Band_Lower band edge_Pre-AGC



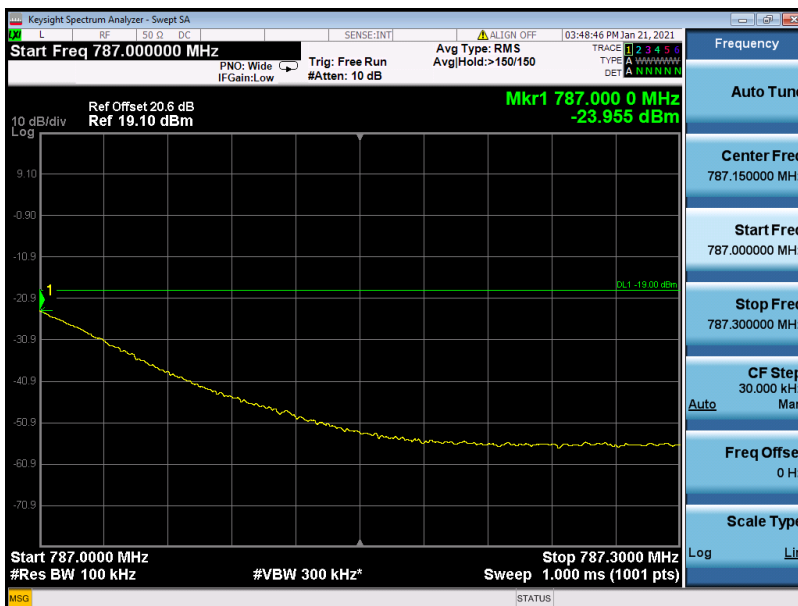
Upper 700MHz Band_Lower band edge_AGC+10dB



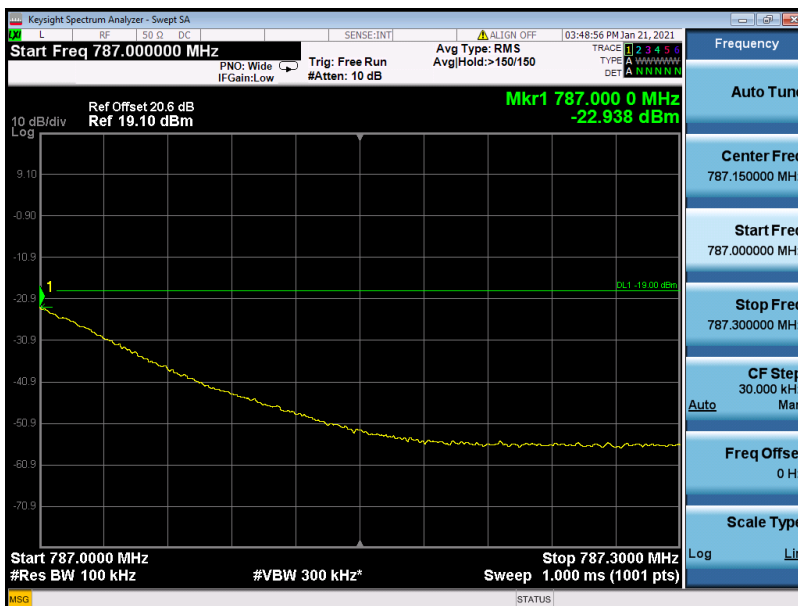
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Upper 700MHz Band_Upper band edge_Pre-AGC



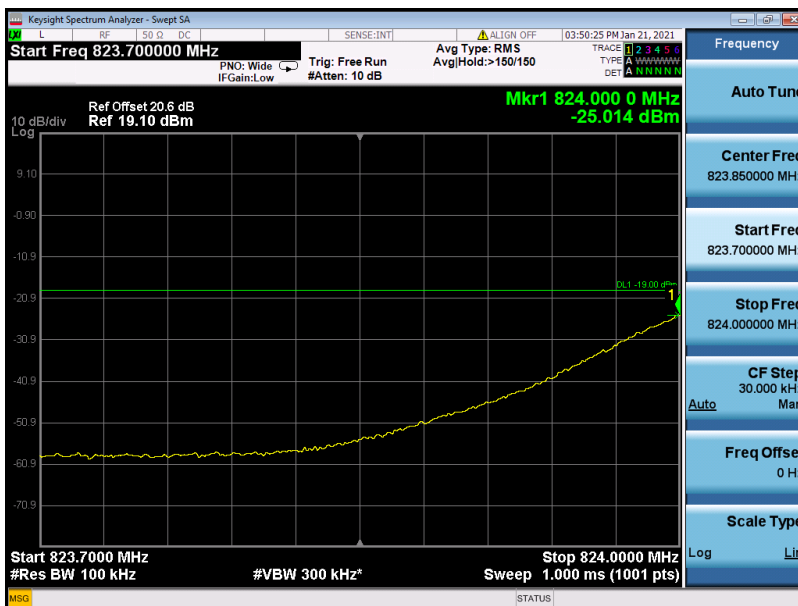
Upper 700MHz Band_Upper band edge_AG+10dB



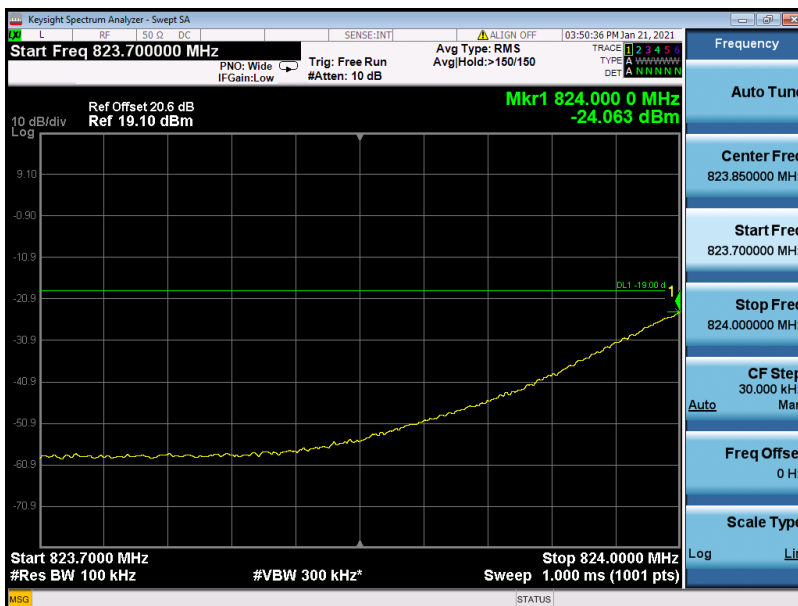
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Cellular Band_Lower band edge_Pre-AGC



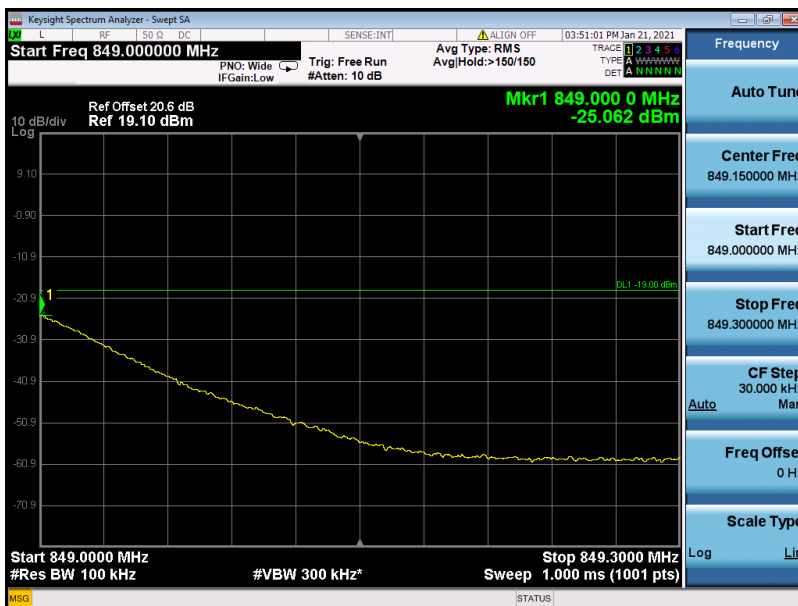
Cellular Band_Lower band edge_AGC+10dB



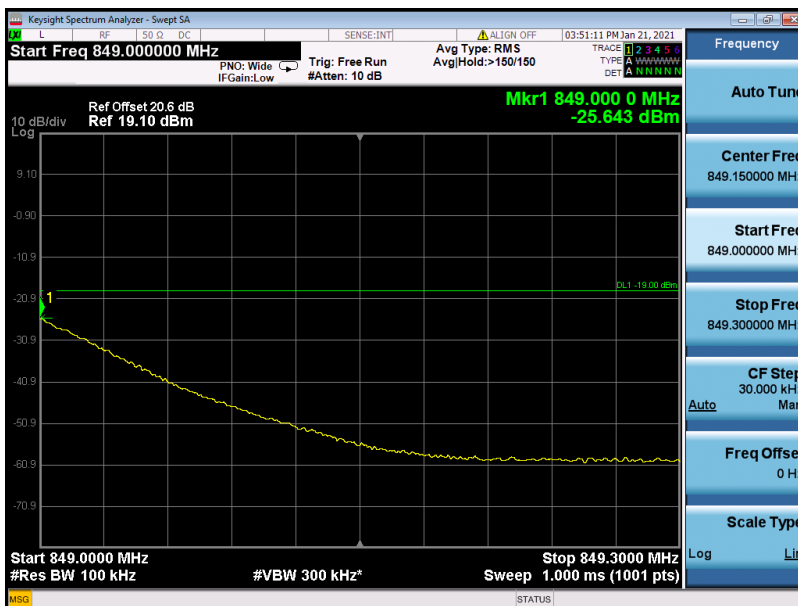
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Cellular Band_Upper band edge_Pre-AGC



Cellular Band_Upper band edge_AGC+10dB

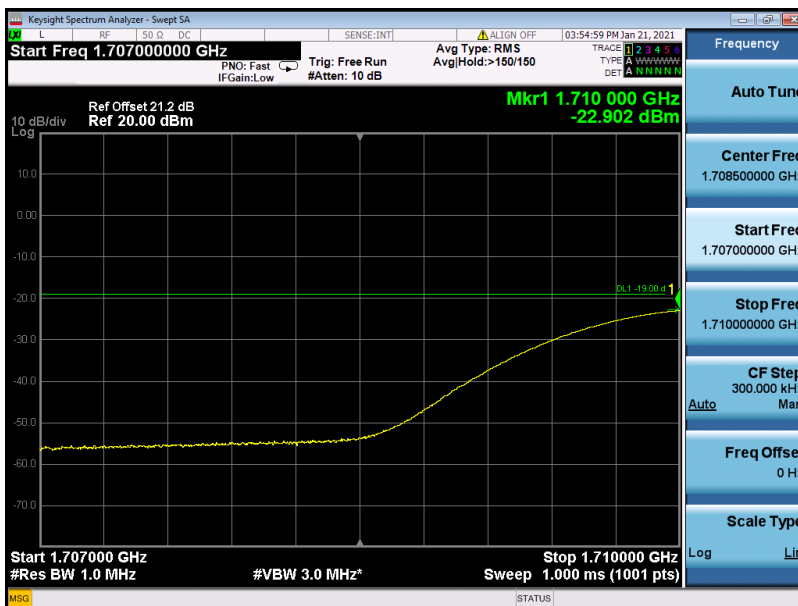


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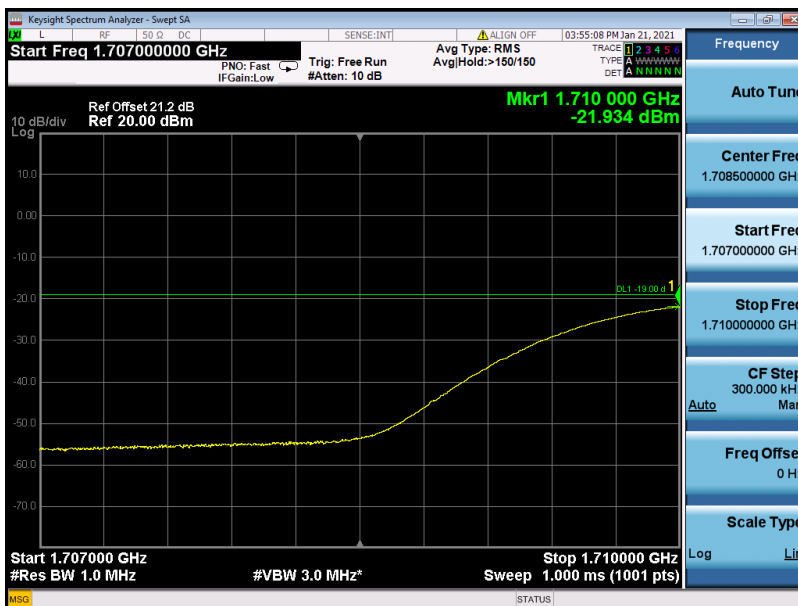
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AWS-1 Band_Lower band edge_Pre-AGC



AWS-1 Band_Lower band edge_AGC+10dB

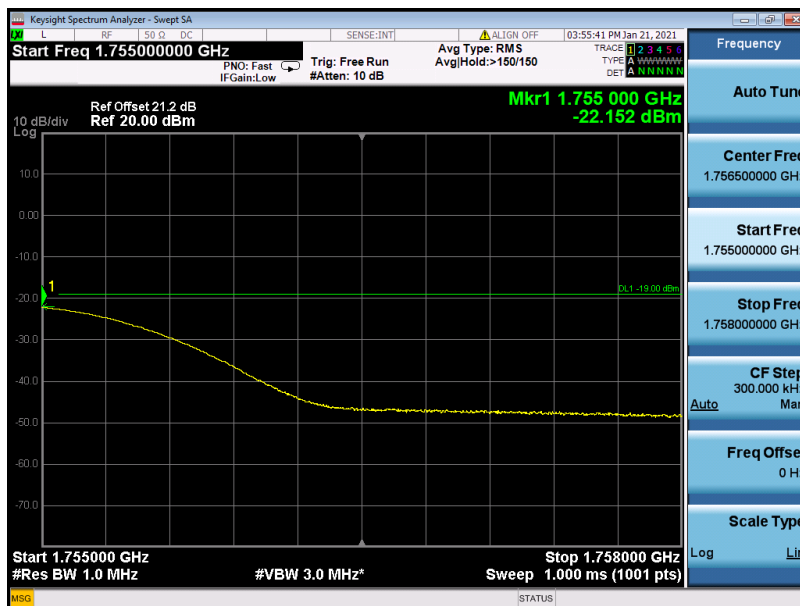


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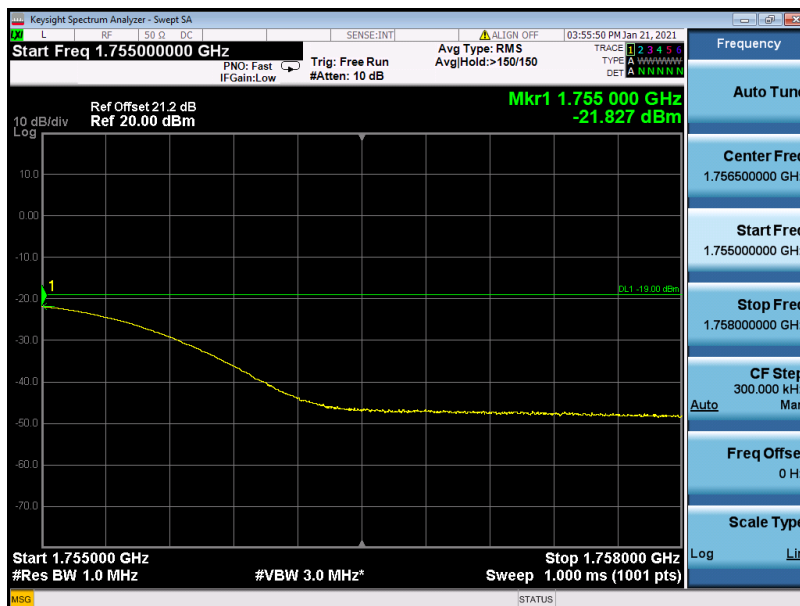
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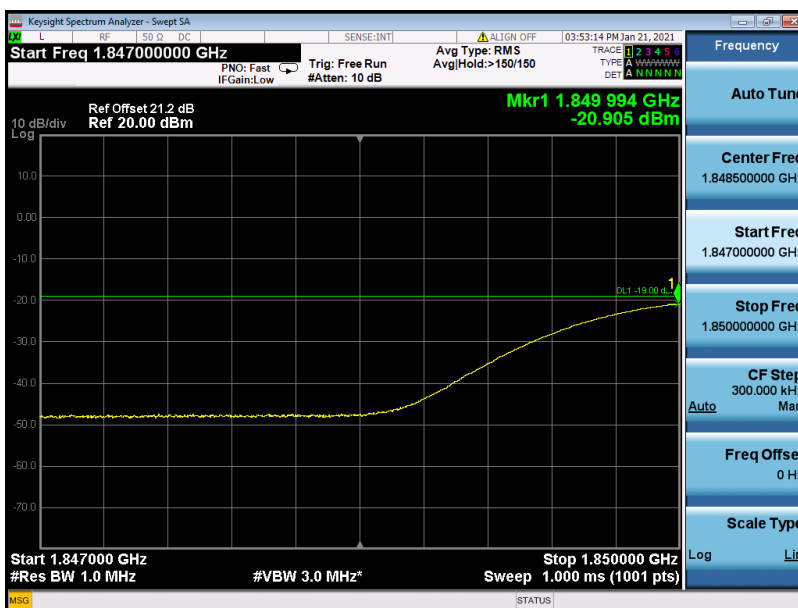
AWS-1 Band_Upper band edge_Pre-AGC



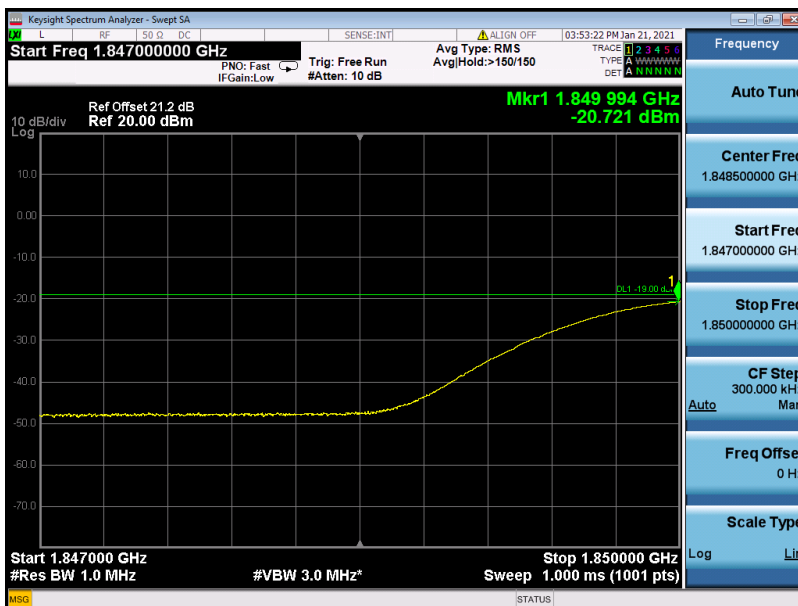
AWS-1 Band_Upper band edge_AGC+10dB



Broadband PCS Band_Lower band edge_Pre-AGC



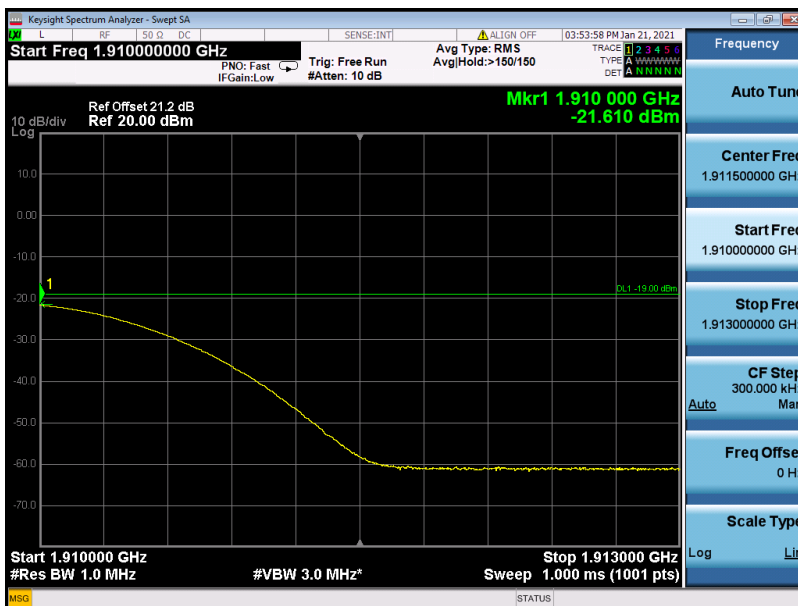
Broadband PCS Band_Lower band edge_AG+10dB



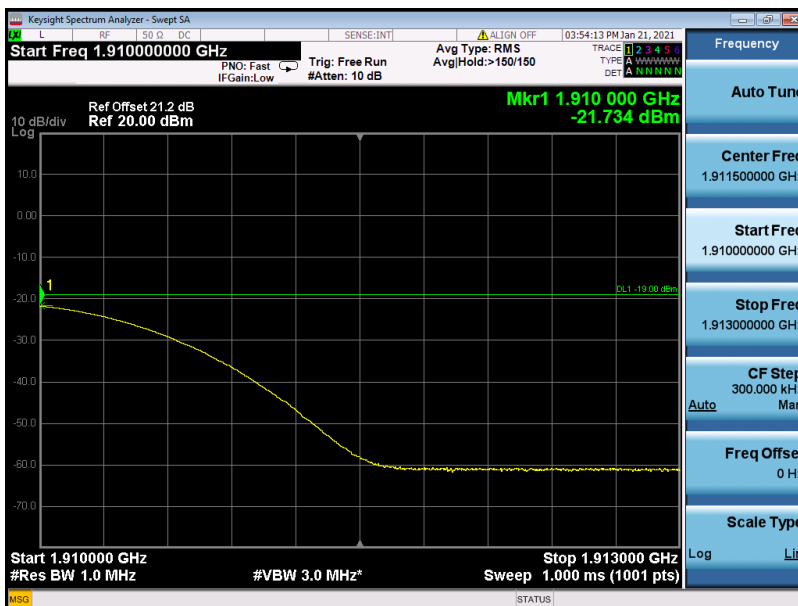
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Broadband PCS Band_Upper band edge_Pre-AGC



Broadband PCS Band_Upper band edge_AG+10dB



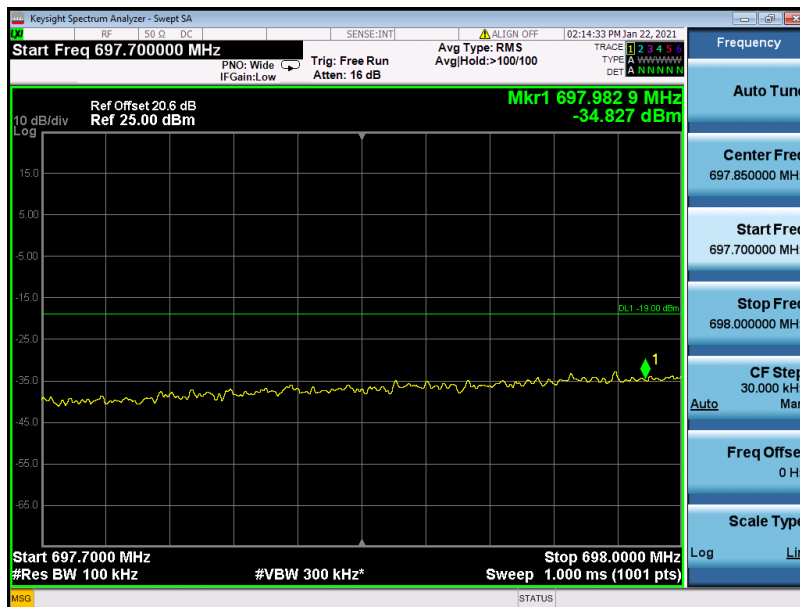
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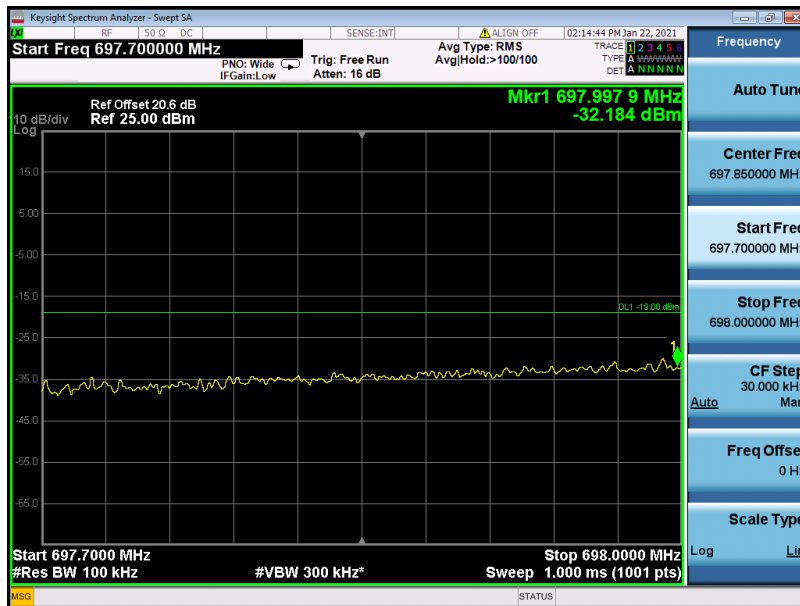
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UPLINK_1.25MHz AWGN signal type

Lower 700MHz Band_Lower band edge_Pre-AGC



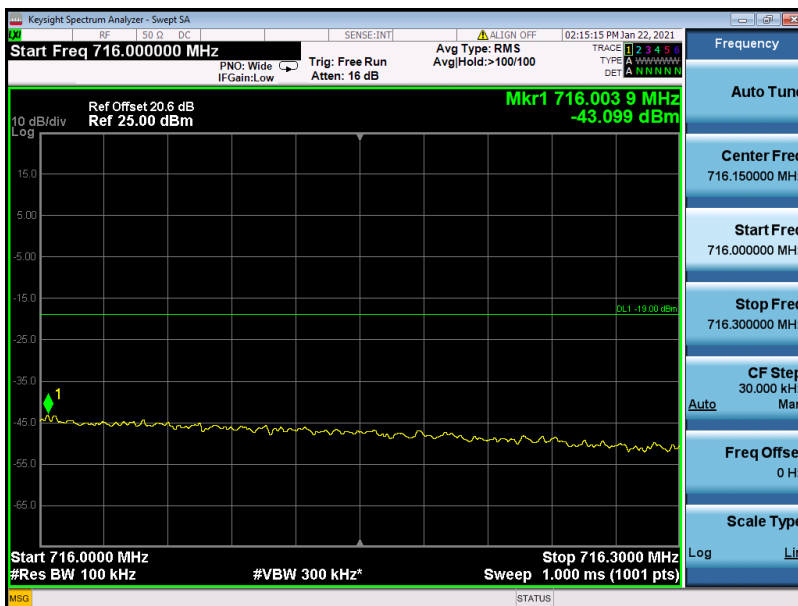
Lower 700MHz Band_Lower band edge_AG+10dB



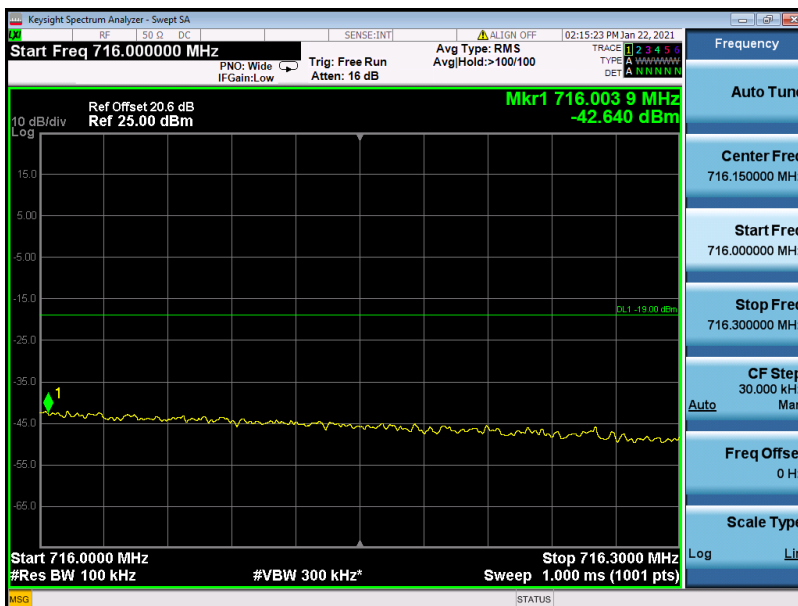
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Lower 700MHz Band_Upper band edge_Pre-AGC



Lower 700MHz Band_Upper band edge_AGC+10dB

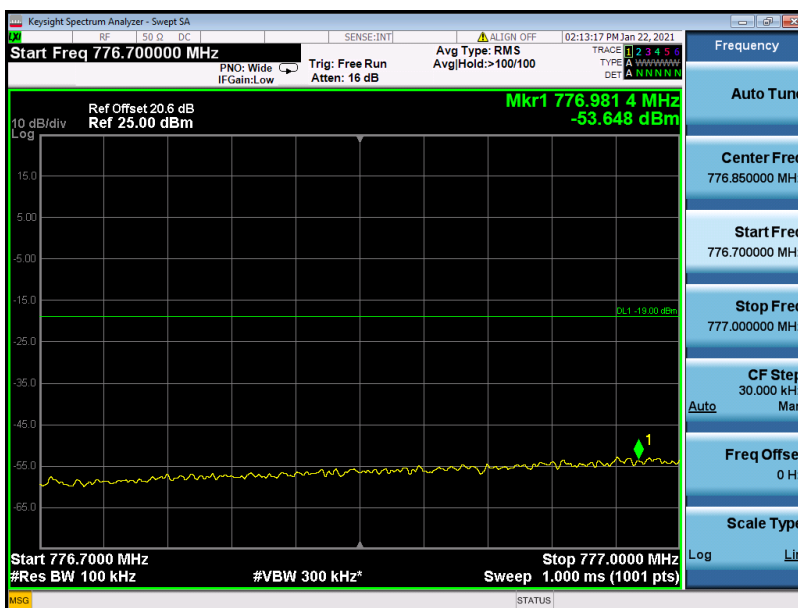


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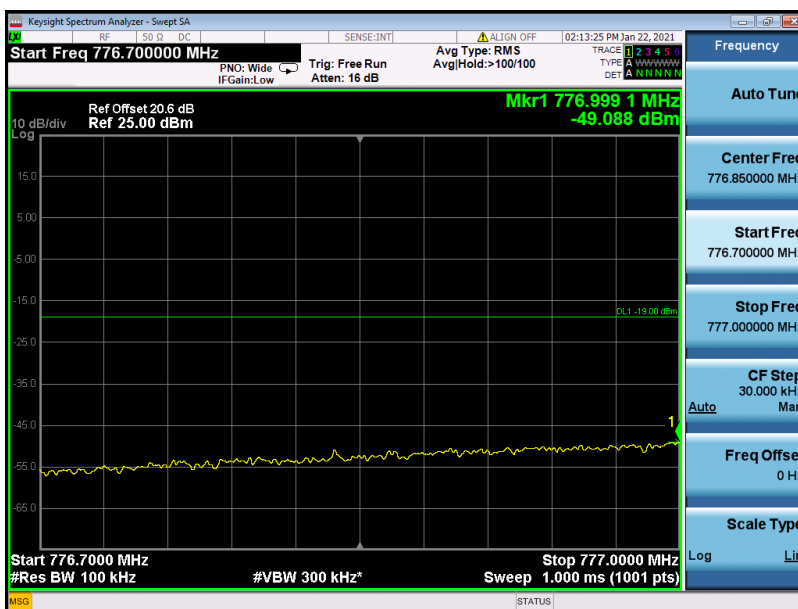
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Upper 700MHz Band_Lower band edge_Pre-AGC



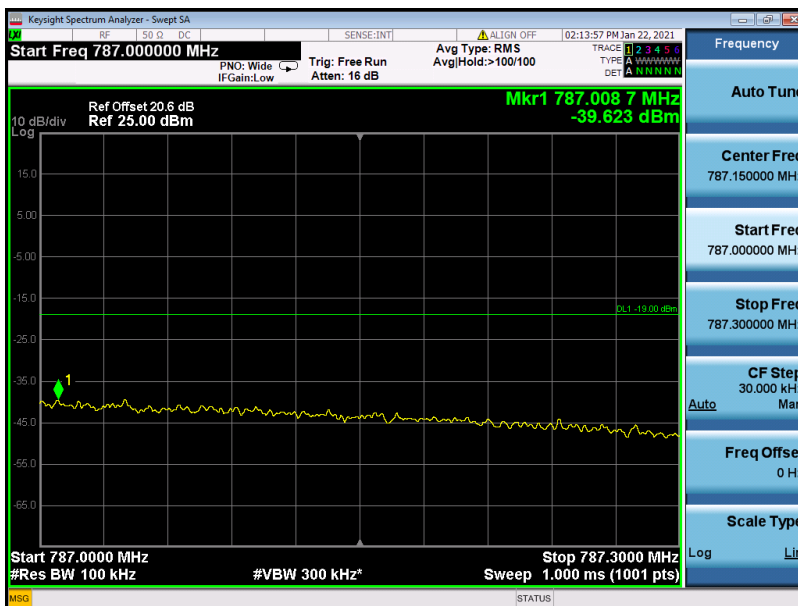
Upper 700MHz Band_Lower band edge_AG+10dB



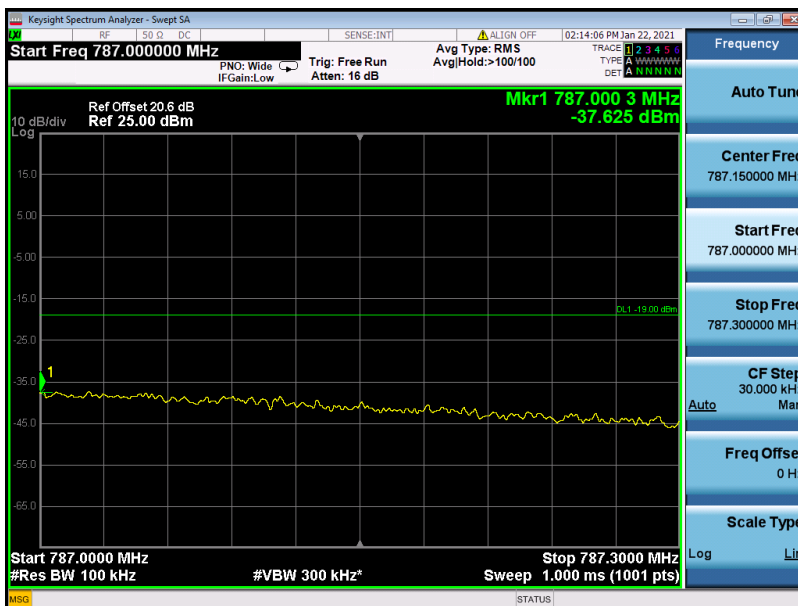
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Upper 700MHz Band_Upper band edge_Pre-AGC



Upper 700MHz Band_Upper band edge_AG+10dB

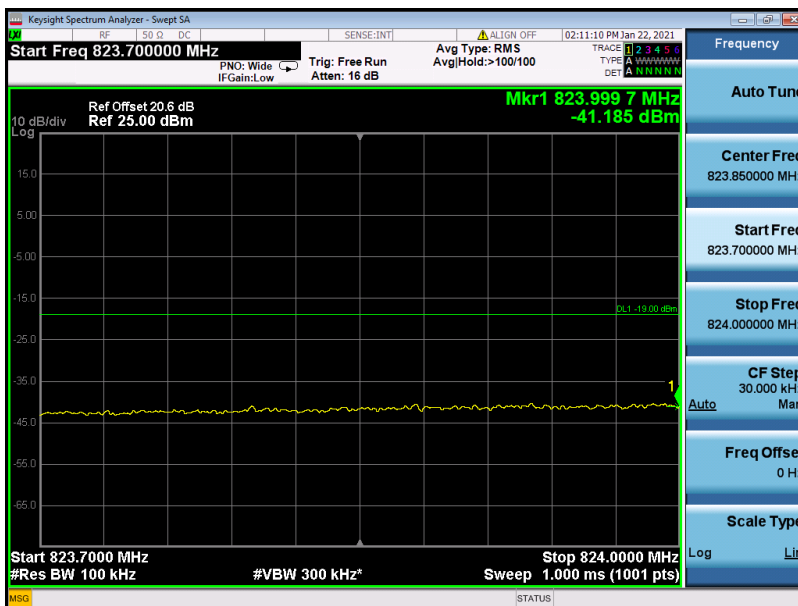


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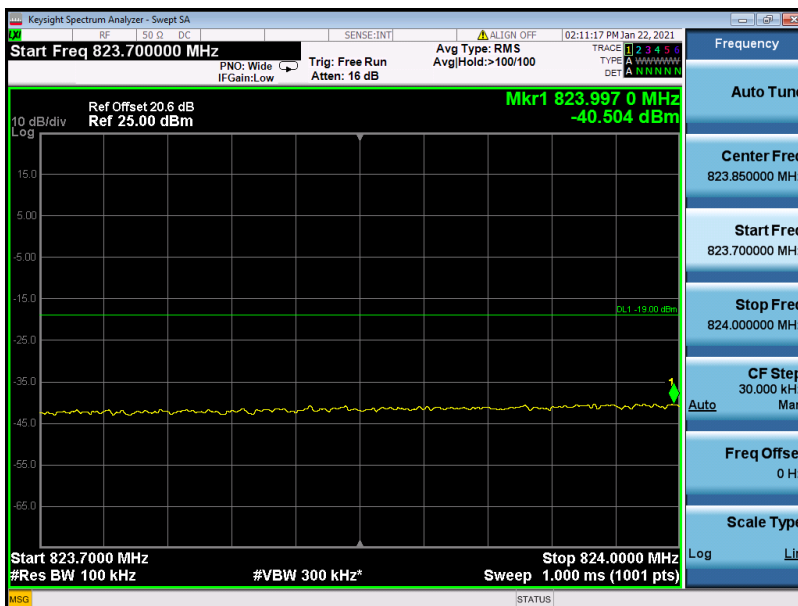
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Cellular Band_Lower band edge_Pre-AGC



Cellular Band_Lower band edge_AGC+10dB



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Cellular Band_Upper band edge_Pre-AGC



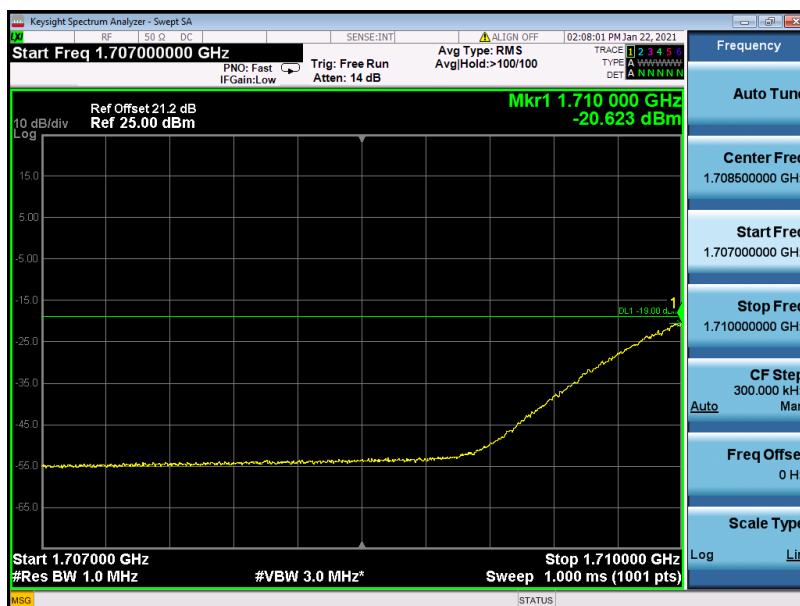
Cellular Band_Upper band edge_AGC+10dB



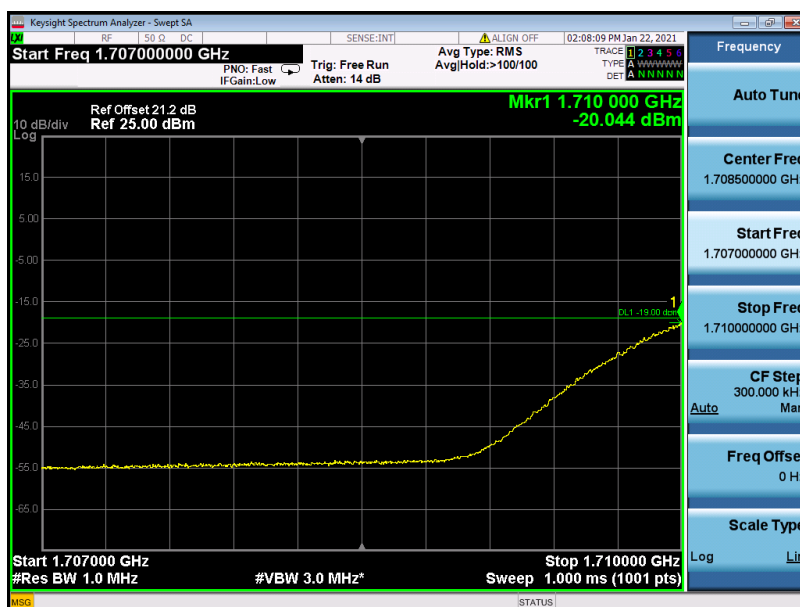
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AWS-1 Band_Lower band edge_Pre-AGC



AWS-1 Band_Lower band edge_AGC+10dB

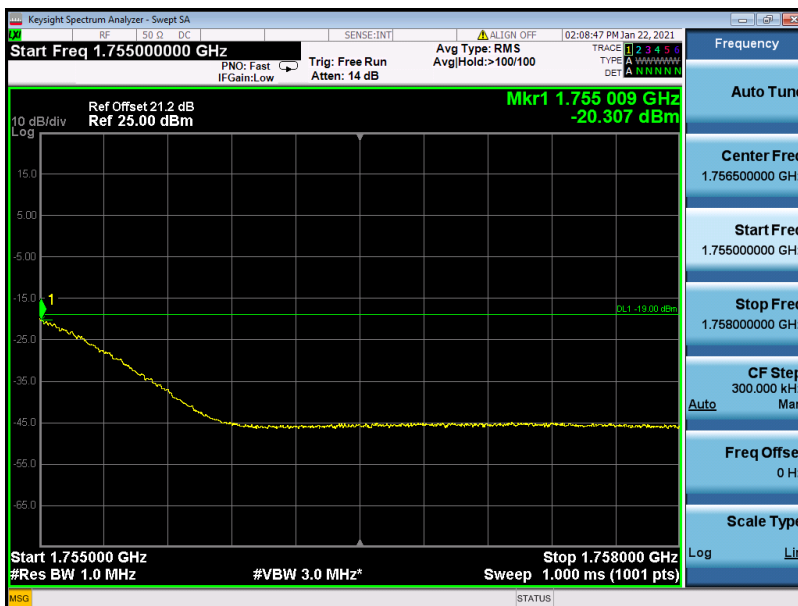


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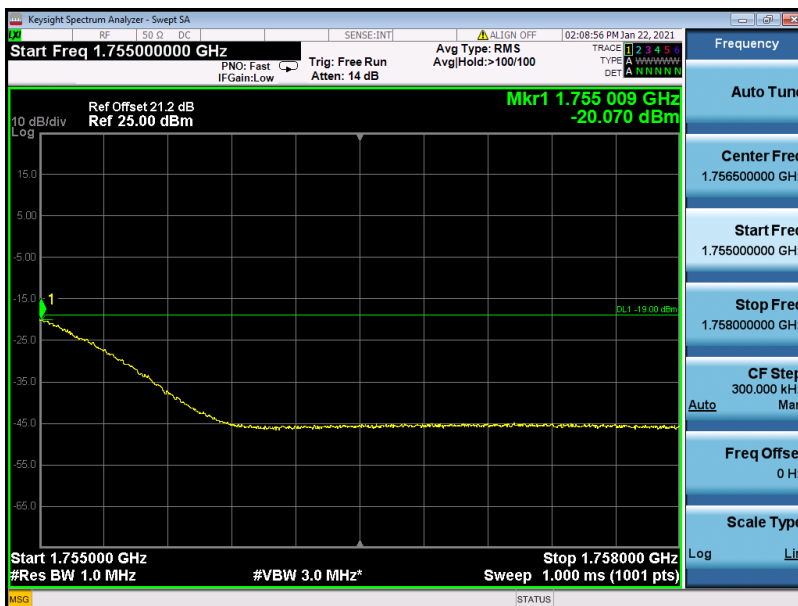
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AWS-1 Band_Upper band edge_Pre-AGC



AWS-1 Band_Upper band edge_AGC+10dB

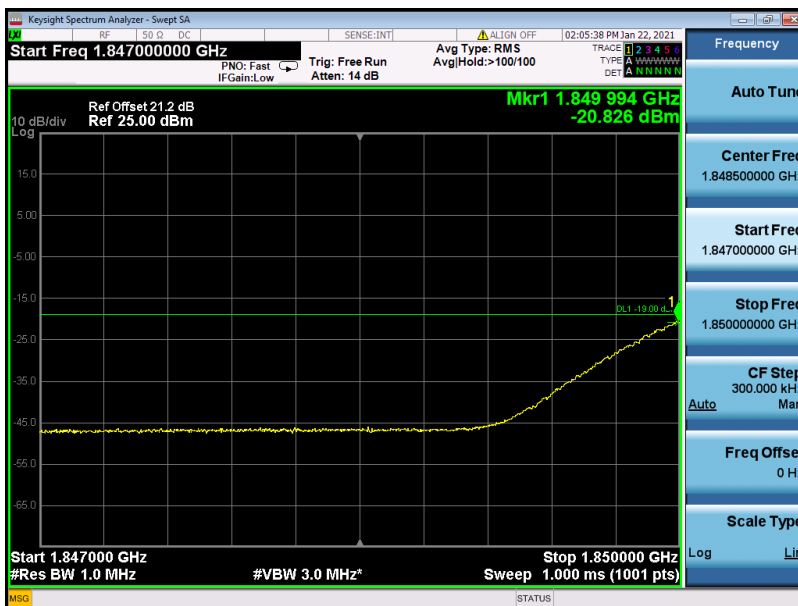


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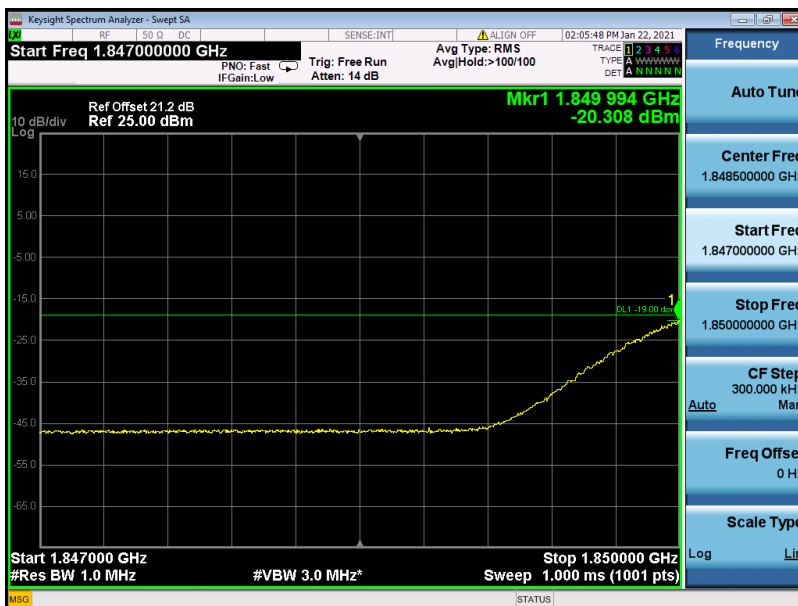
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Broadband PCS Band_Lower band edge_Pre-AGC



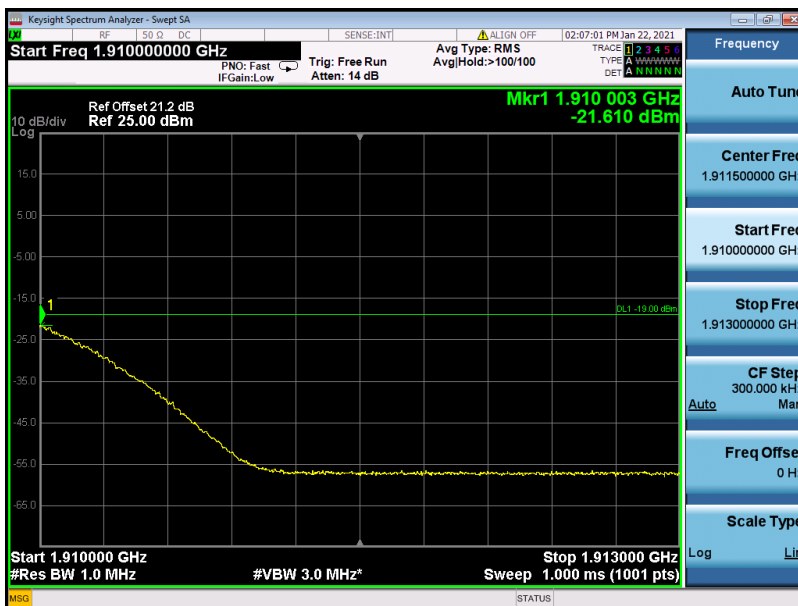
Broadband PCS Band_Lower band edge_AG+10dB



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Broadband PCS Band_Upper band edge_Pre-AGC



Broadband PCS Band_Upper band edge_AG+10dB

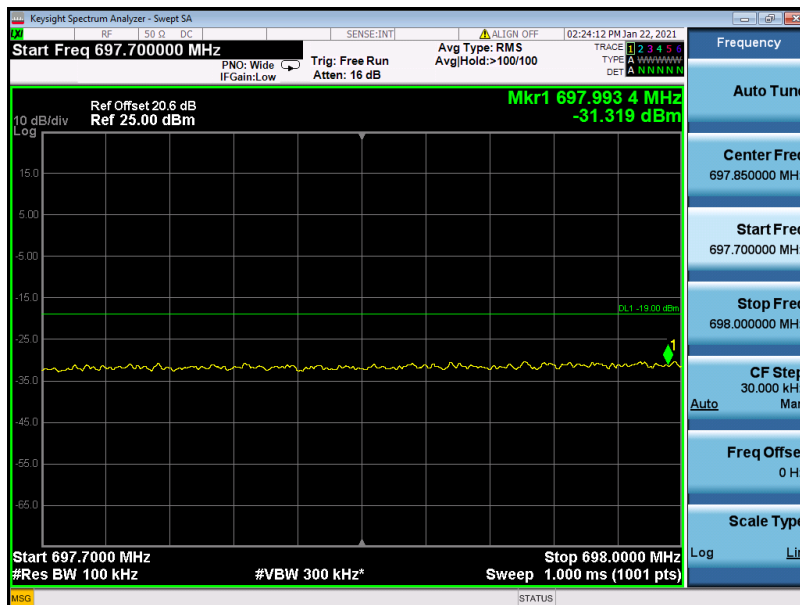


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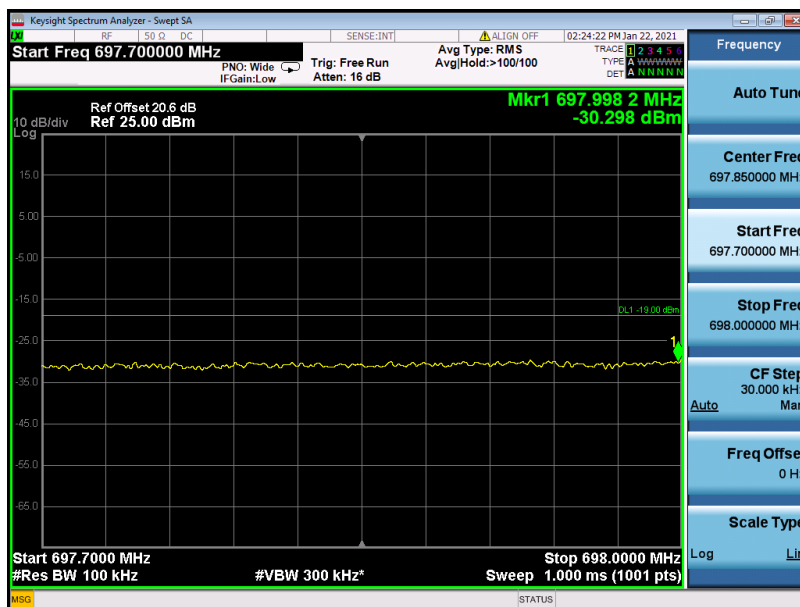
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UPLINK_4.1MHz AWGN signal type

Lower 700MHz Band_Lower band edge_Pre-AGC



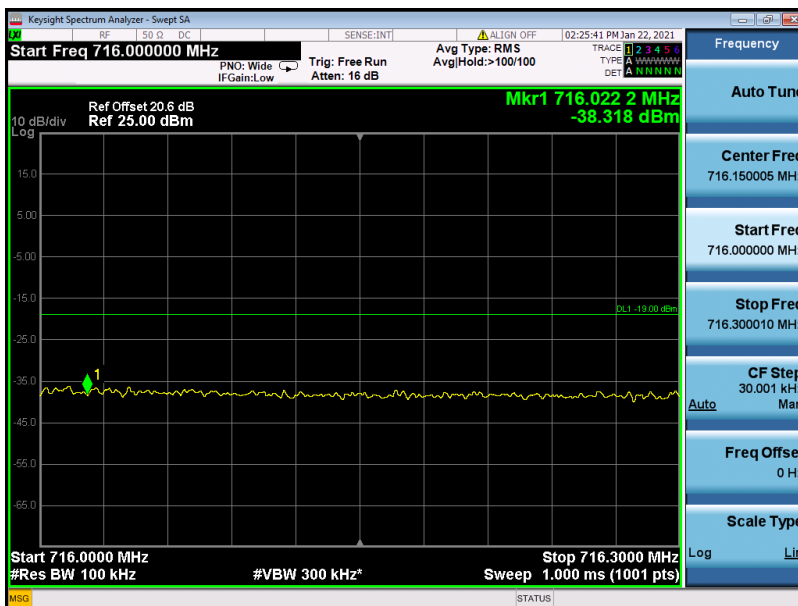
Lower 700MHz Band_Lower band edge_AG+10dB



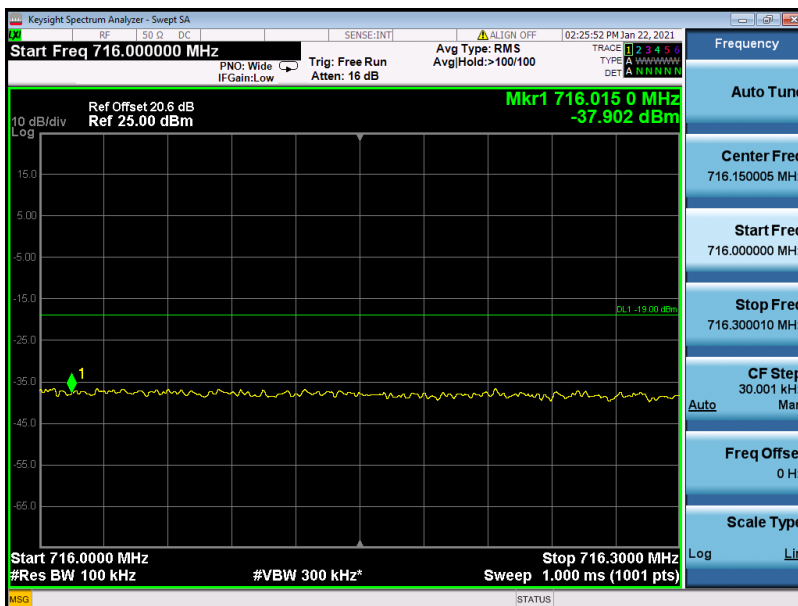
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Lower 700MHz Band_Upper band edge_Pre-AGC



Lower 700MHz Band_Upper band edge_AGC+10dB

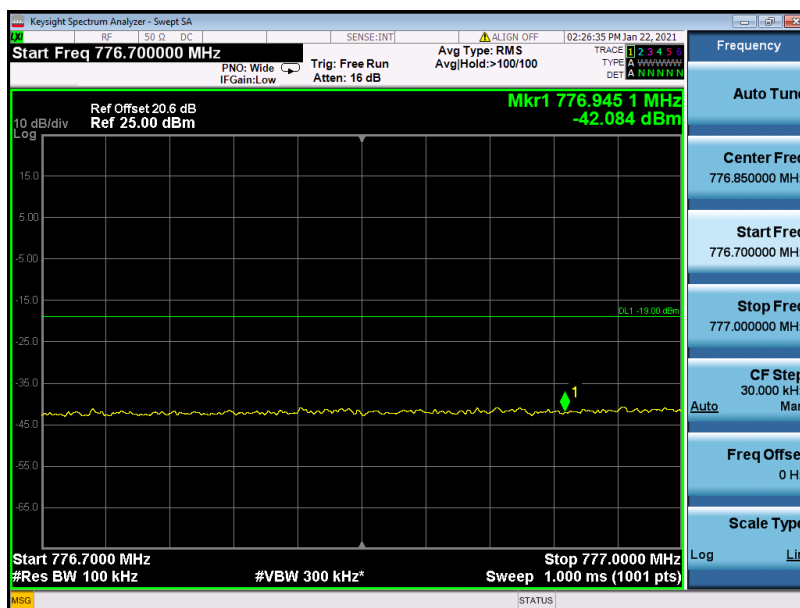


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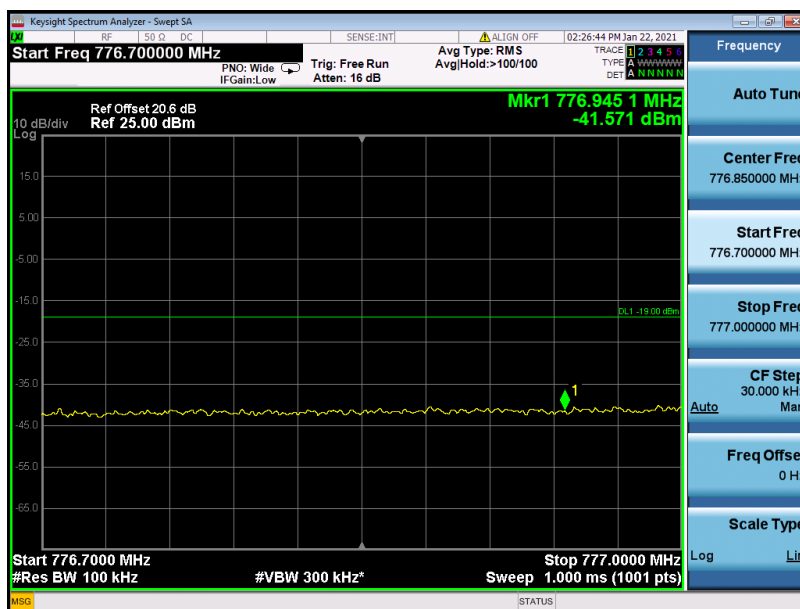
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Upper 700MHz Band_Lower band edge_Pre-AGC



Upper 700MHz Band_Lower band edge_AGC+10dB

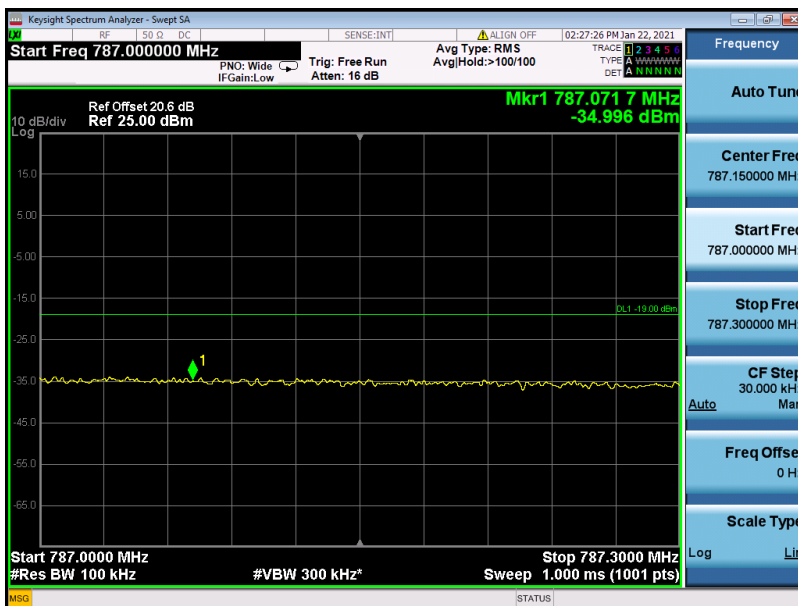


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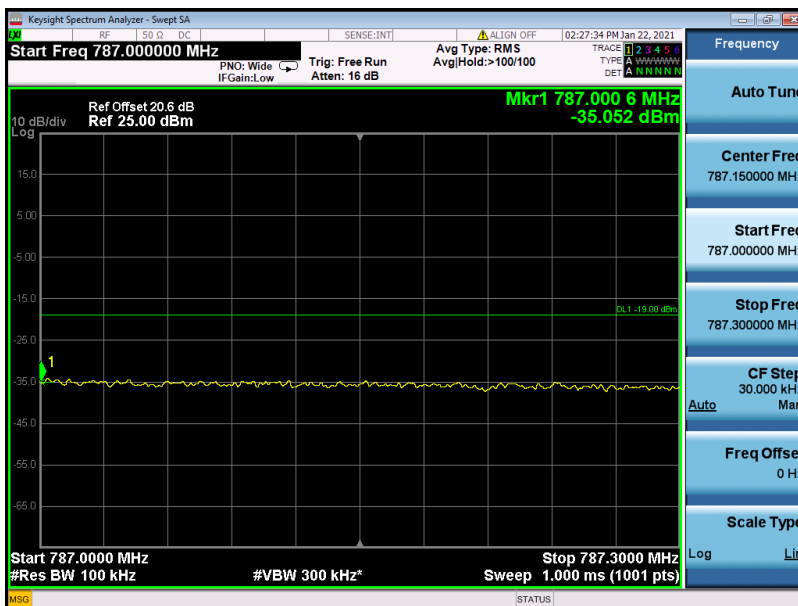
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Upper 700MHz Band_Upper band edge_Pre-AGC



Upper 700MHz Band_Upper band edge_AG+10dB

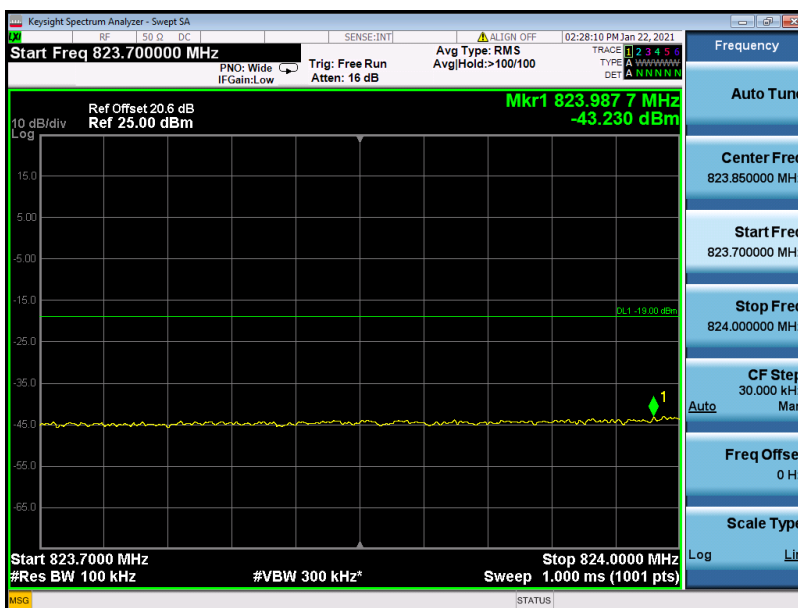


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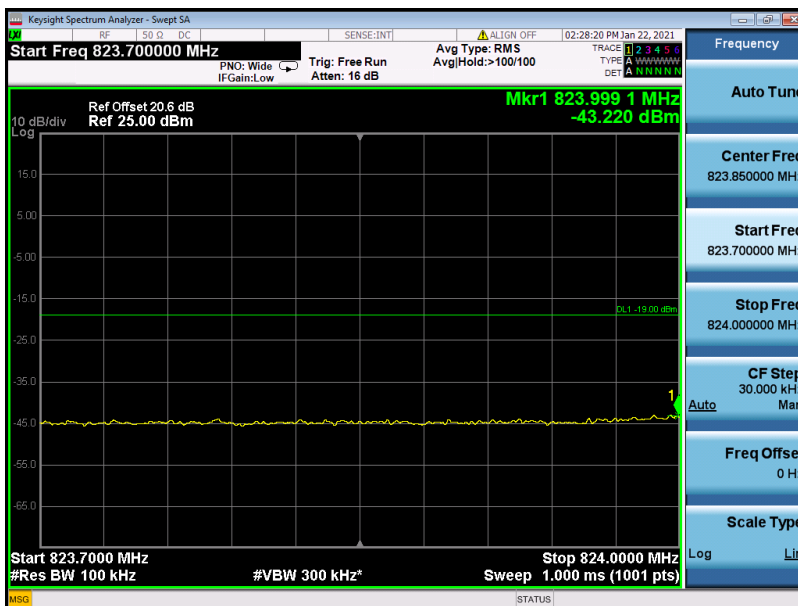
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Cellular Band_Lower band edge_Pre-AGC



Cellular Band_Lower band edge_AGC+10dB

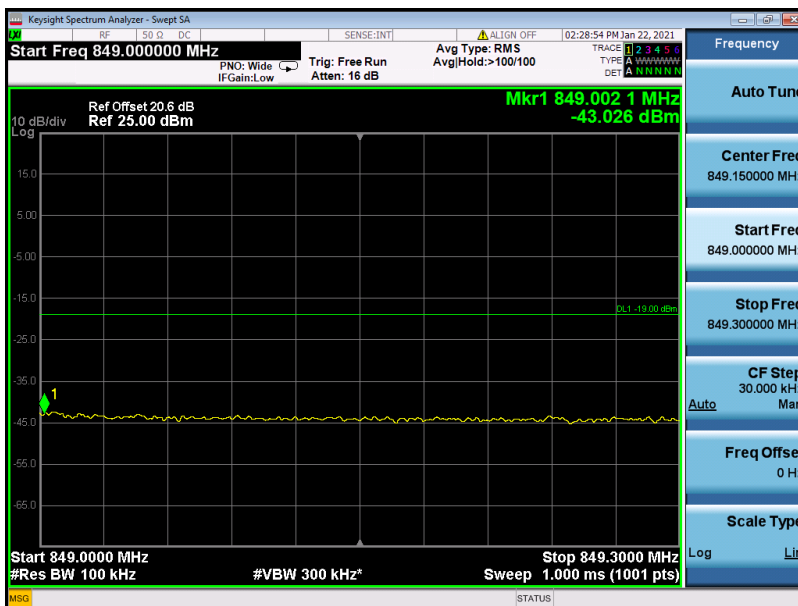


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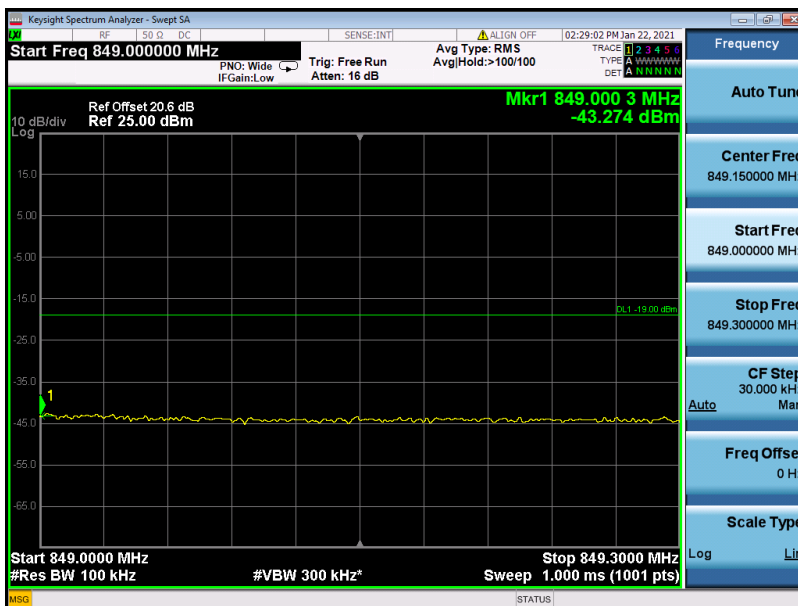
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Cellular Band_Upper band edge_Pre-AGC



Cellular Band_Upper band edge_AGC+10dB

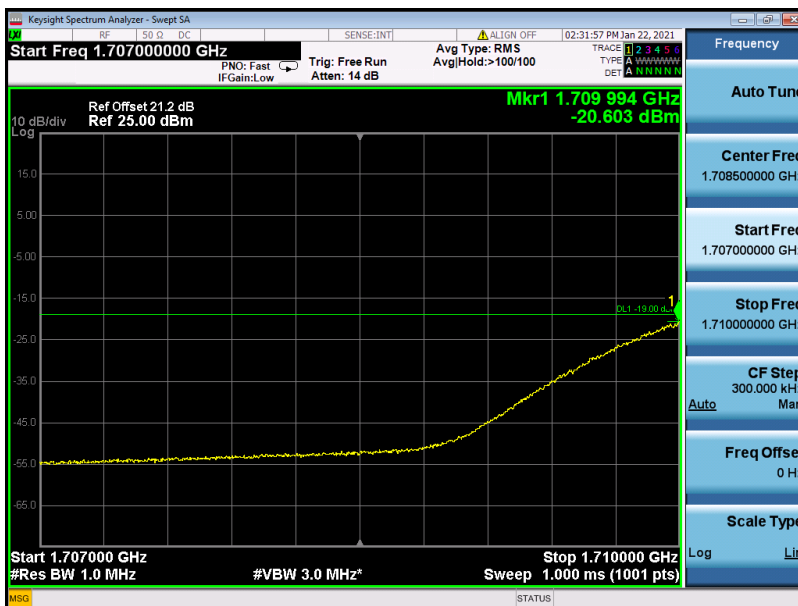


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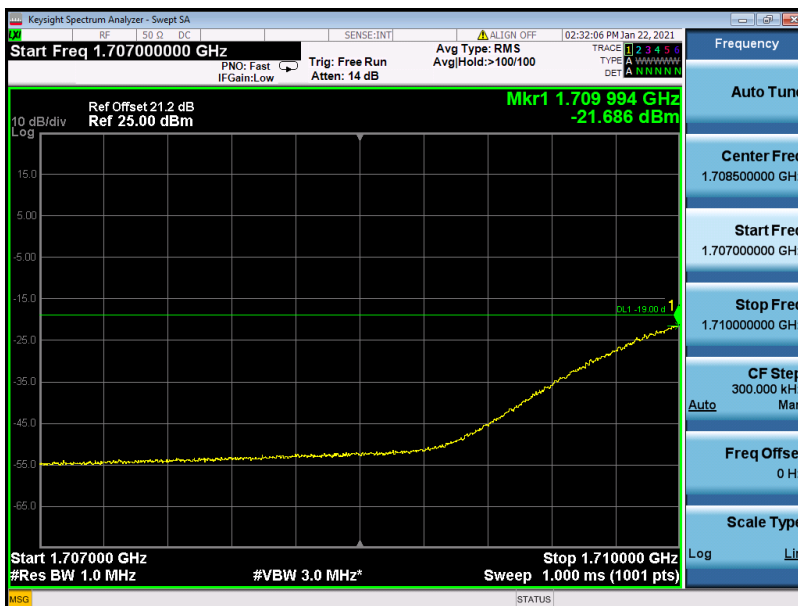
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AWS-1 Band_Lower band edge_Pre-AGC



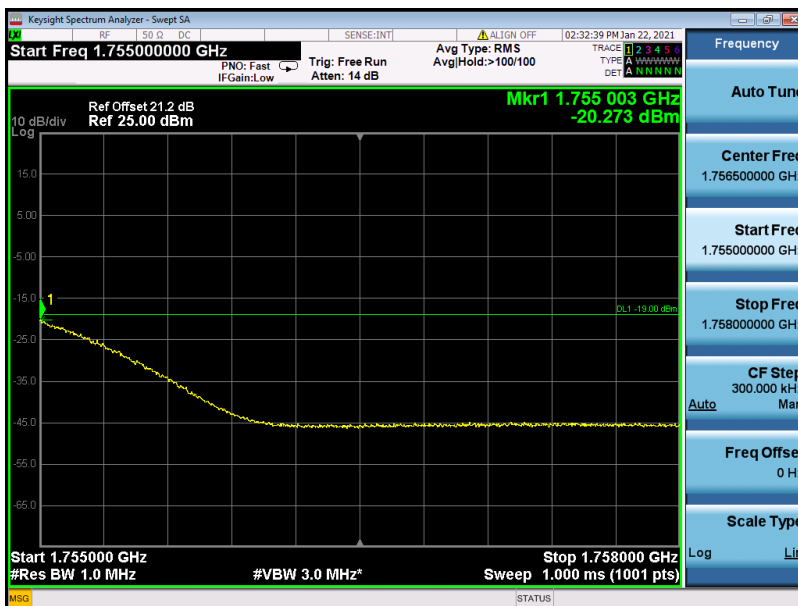
AWS-1 Band_Lower band edge_AGC+10dB



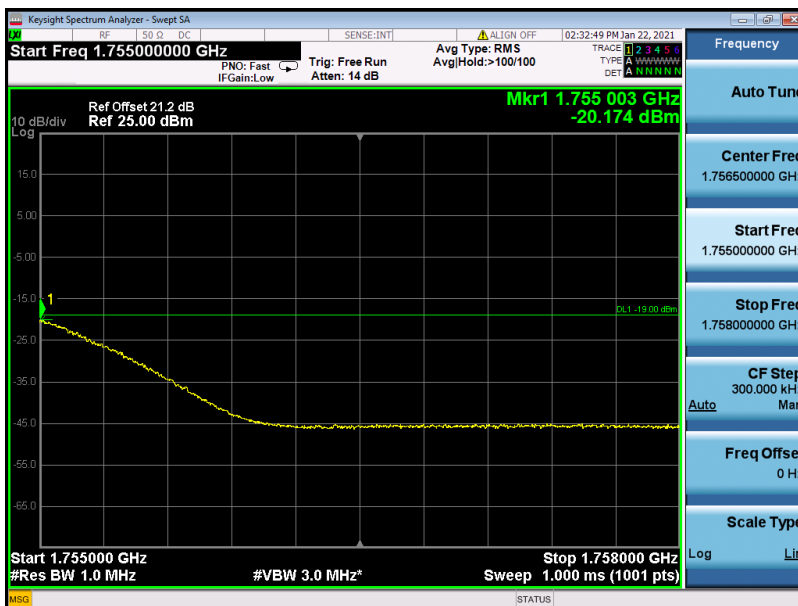
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AWS-1 Band_Upper band edge_Pre-AGC



AWS-1 Band_Upper band edge_AGC+10dB

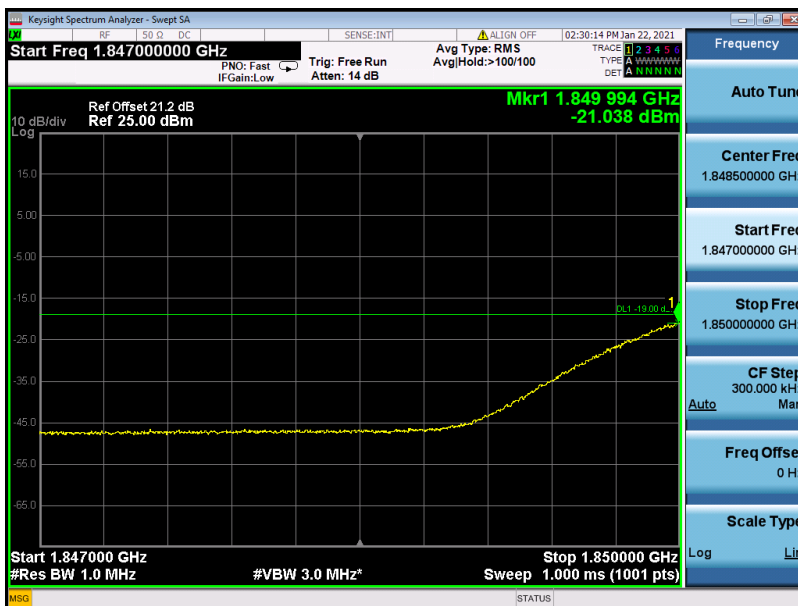


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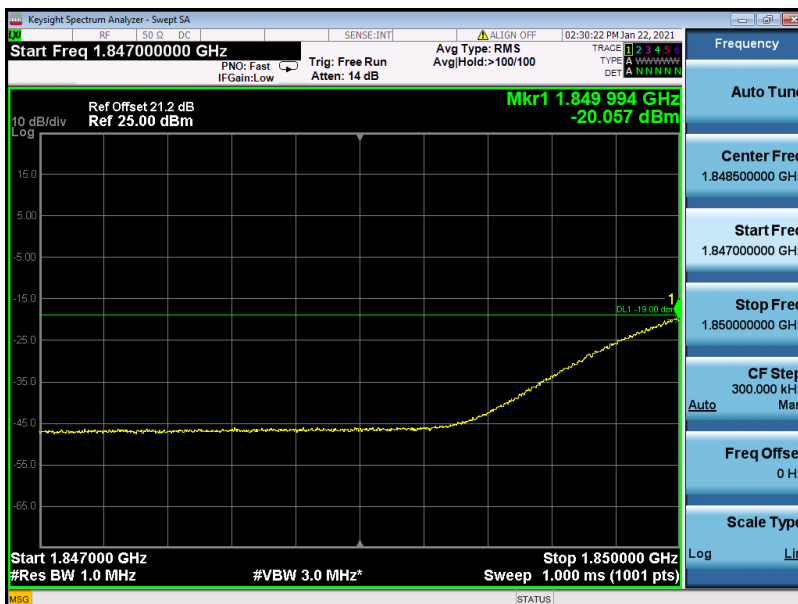
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Broadband PCS Band_Lower band edge_Pre-AGC



Broadband PCS Band_Lower band edge_AG+10dB



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Broadband PCS Band_Upper band edge_Pre-AGC



Broadband PCS Band_Upper band edge_AG+10dB



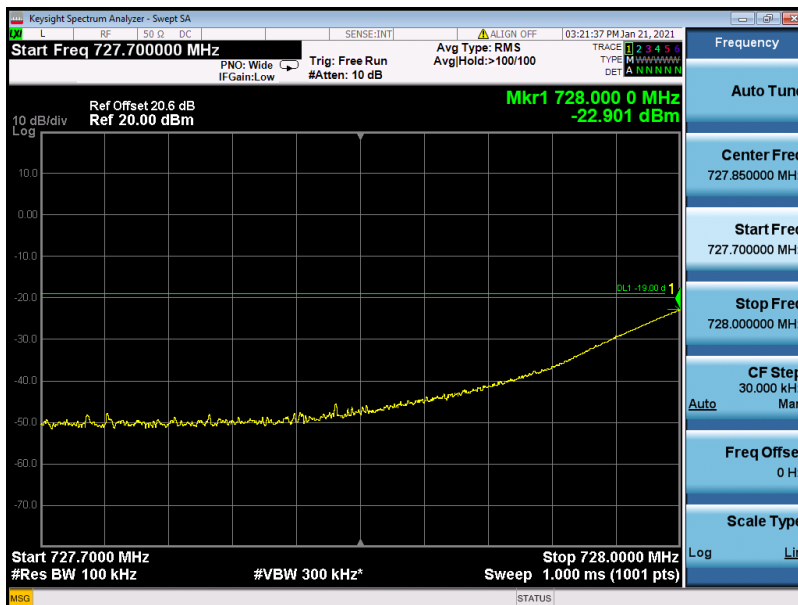
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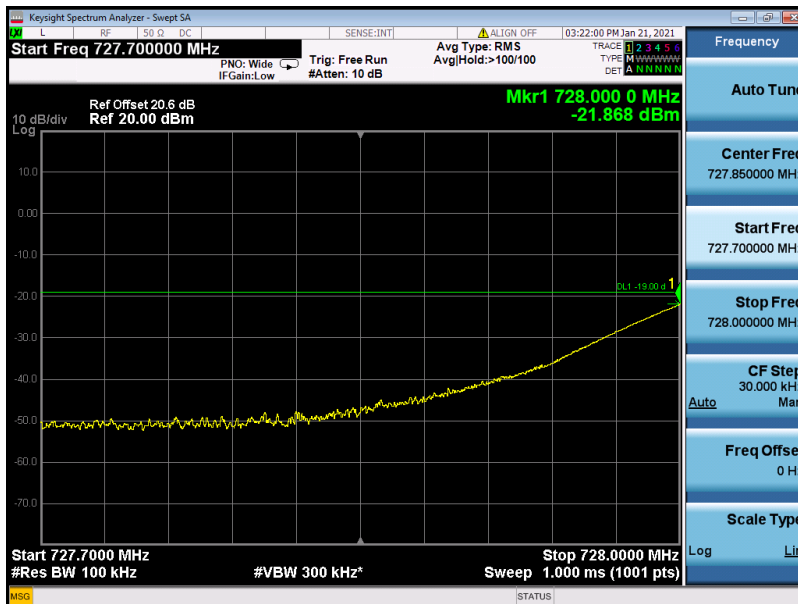
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DOWNLINK_GSM signal type

700MHz (Lower 700MHz + Upper 700MHz) Band_Lower band edge_Pre-AGC



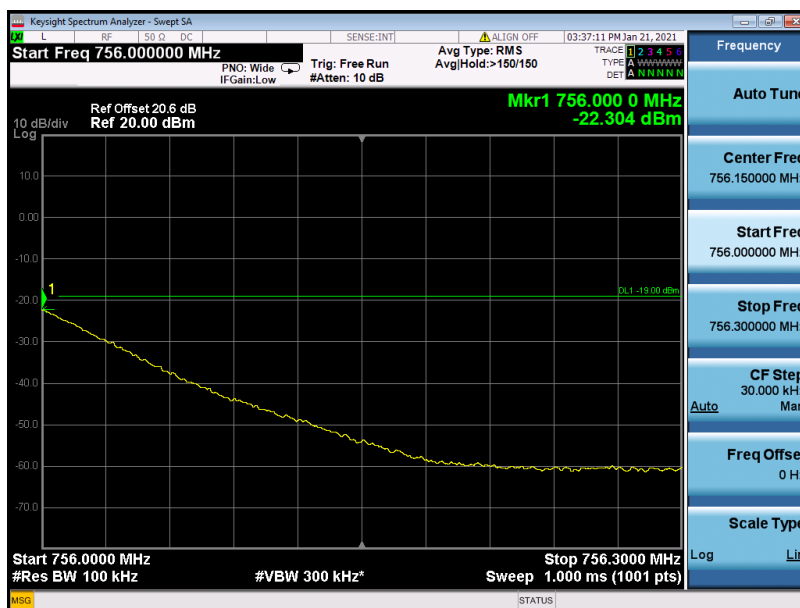
700MHz (Lower 700MHz + Upper 700MHz) Band_Lower band edge_AGC+10dB



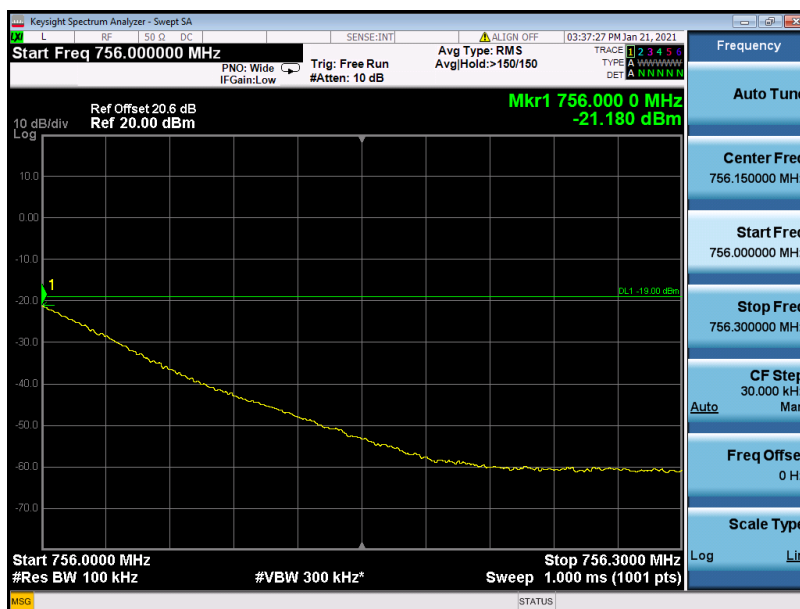
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700MHz (Lower 700MHz + Upper 700MHz) Band_Upper band edge_Pre-AGC



700MHz (Lower 700MHz + Upper 700MHz) Band_Upper band edge_AG+10dB

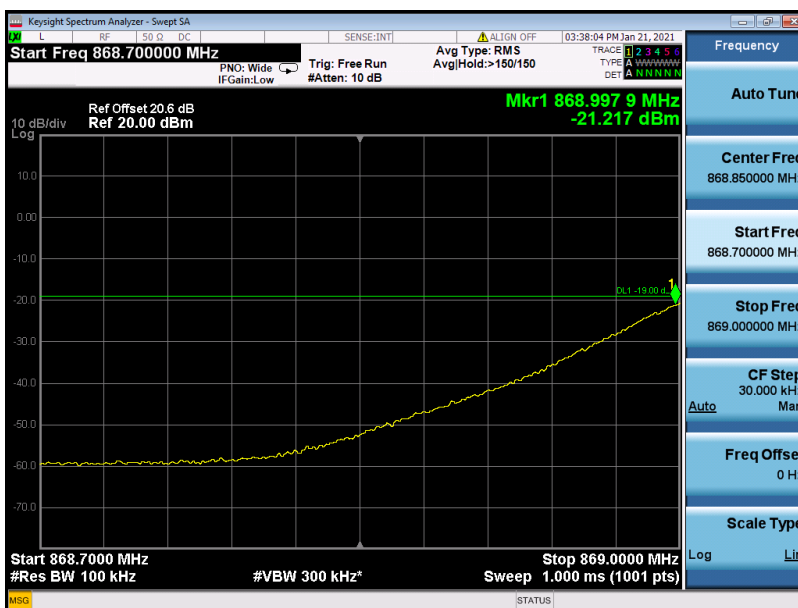


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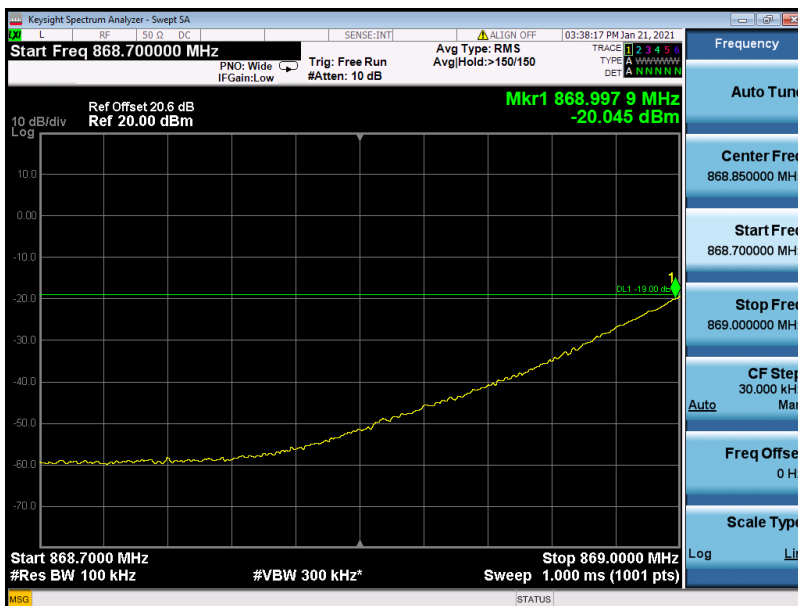
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Cellular Band_Lower band edge_Pre-AGC



Cellular Band_Lower band edge_AGC+10dB

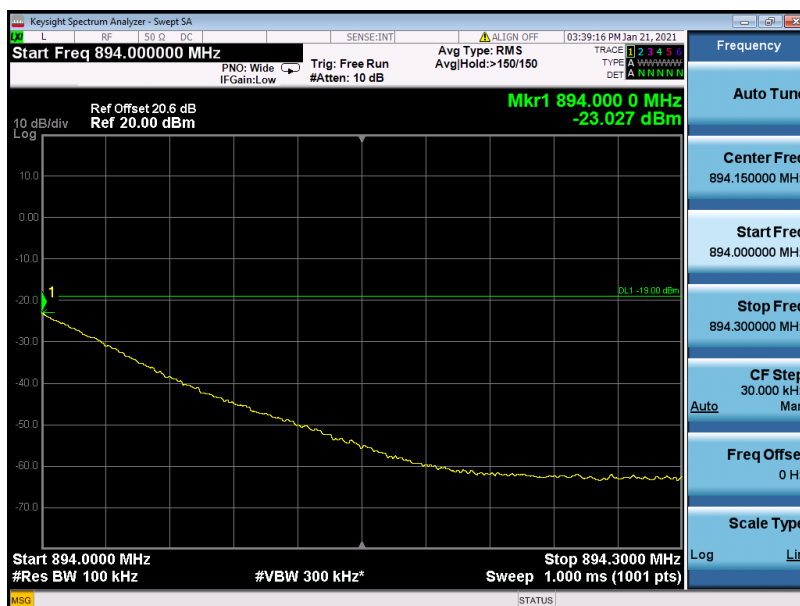


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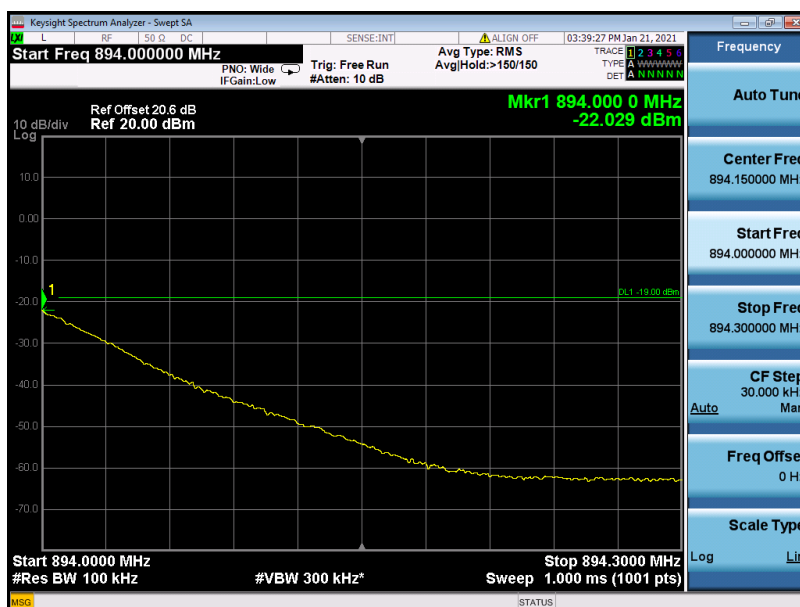
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Cellular Band_Upper band edge_Pre-AGC



Cellular Band_Upper band edge_AGC+10dB

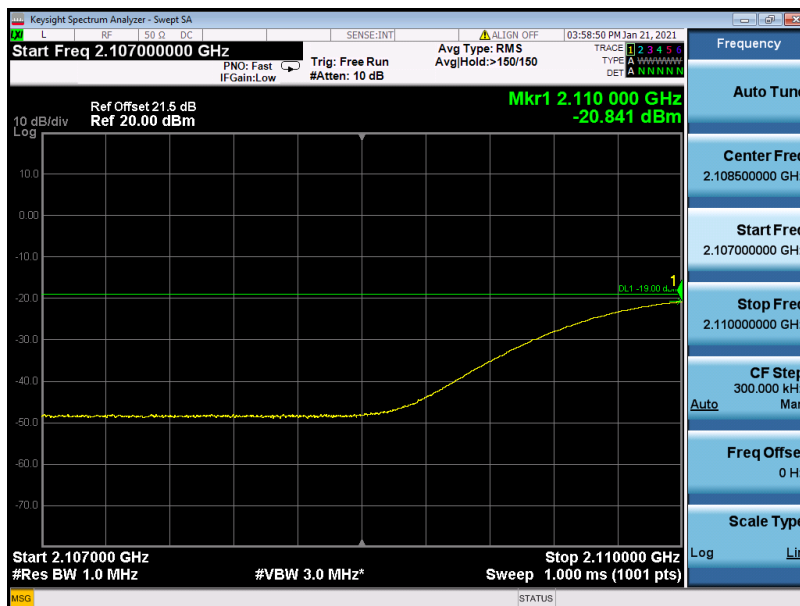


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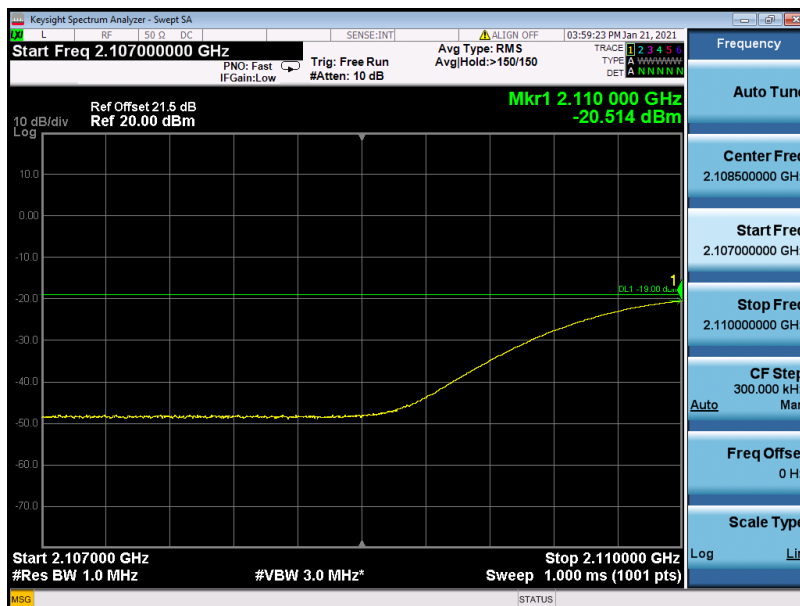
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AWS-1 Band_Lower band edge_Pre-AGC



AWS-1 Band_Lower band edge_AGC+10dB

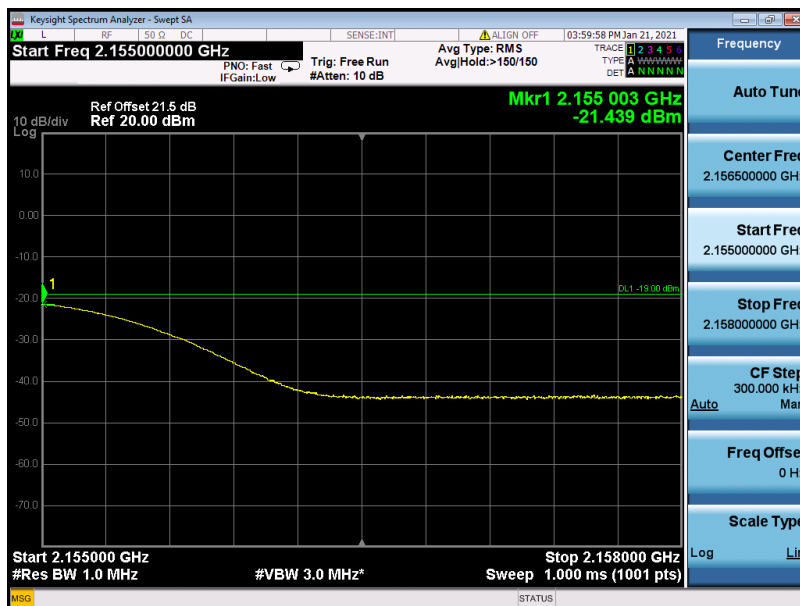


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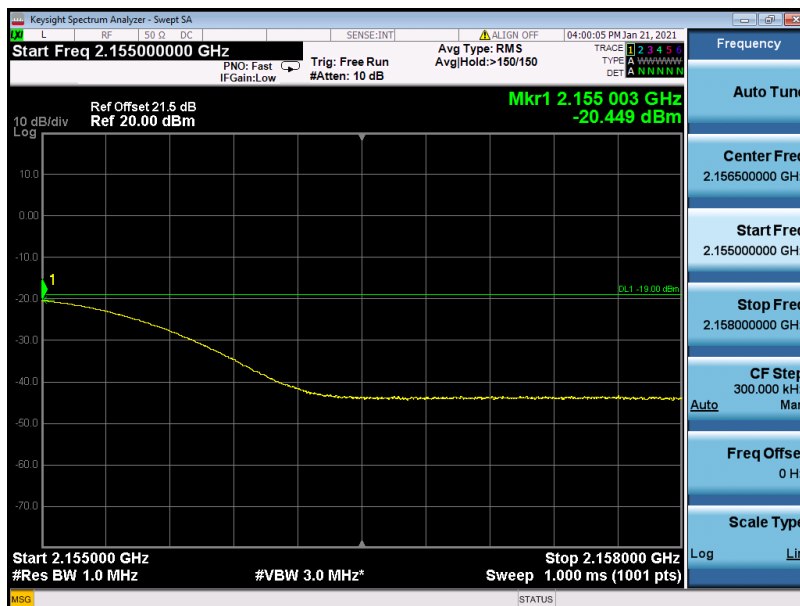
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AWS-1 Band_Upper band edge_Pre-AGC



AWS-1 Band_Upper band edge_AGC+10dB

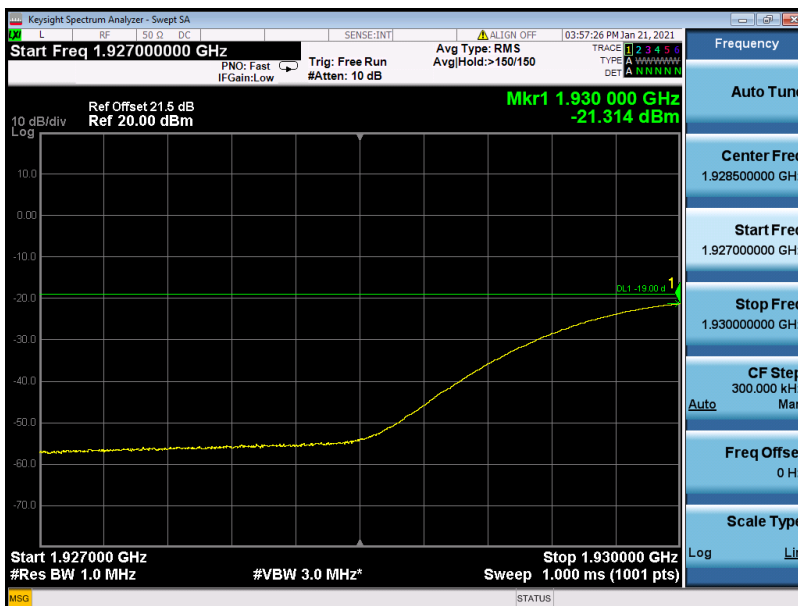


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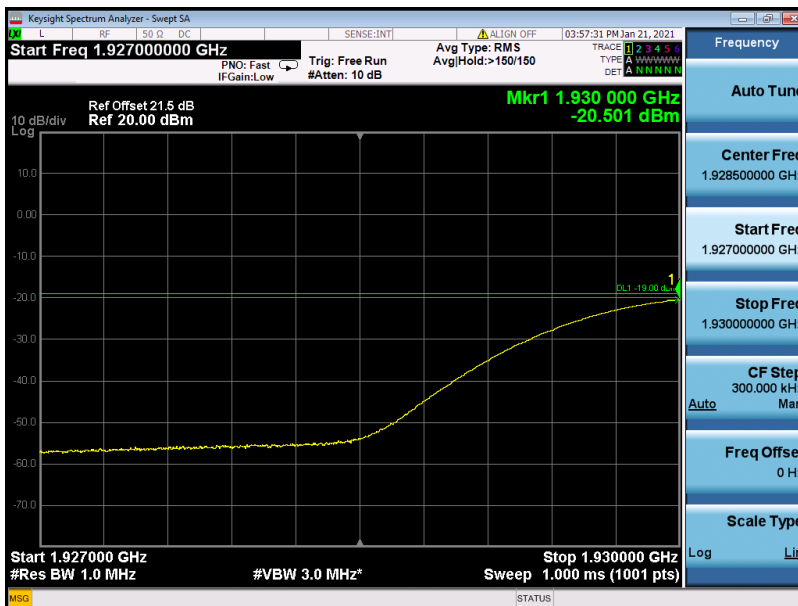
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Broadband PCS Band_Lower band edge_Pre-AGC



Broadband PCS Band_Lower band edge_AG+10dB



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