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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

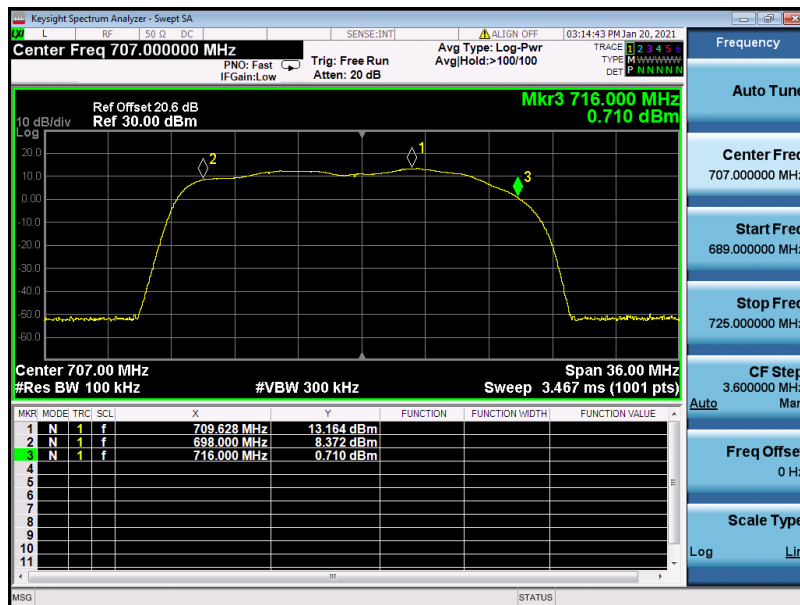


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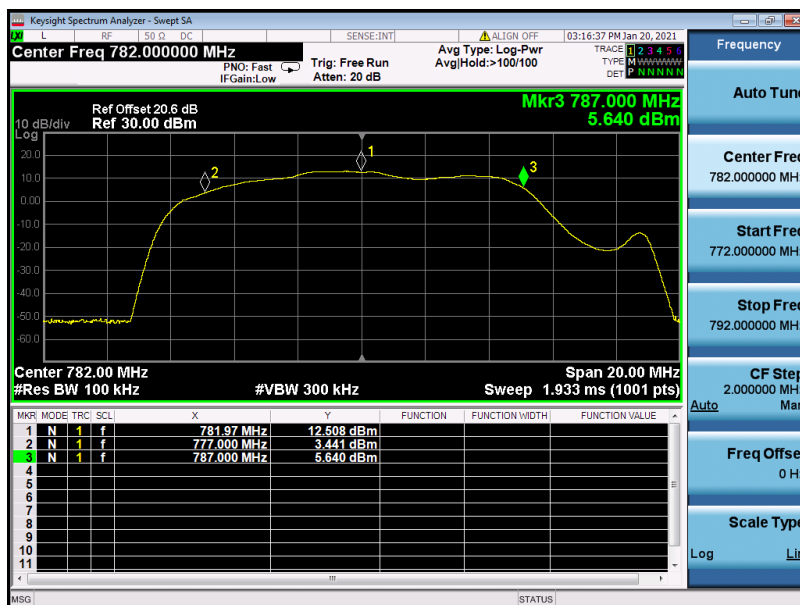
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### UPLINK

#### Lower 700MHz Band



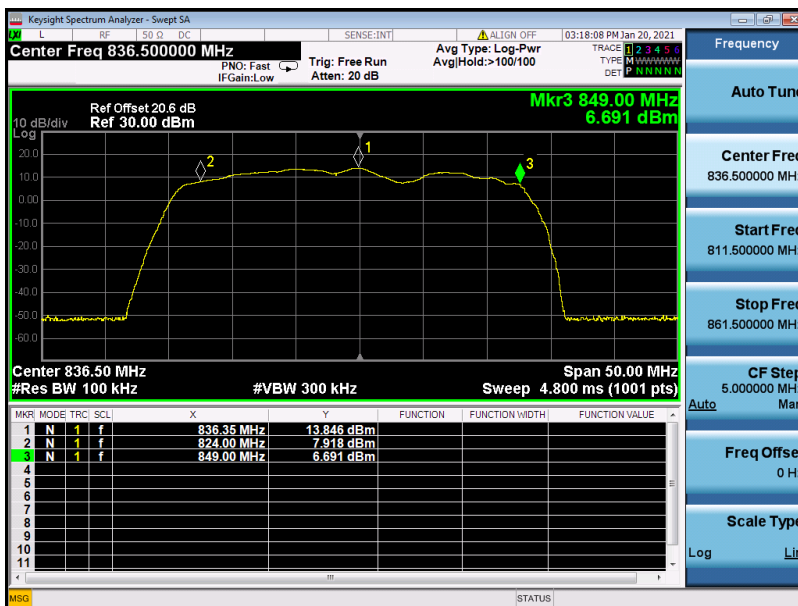
#### Upper 700MHz Band



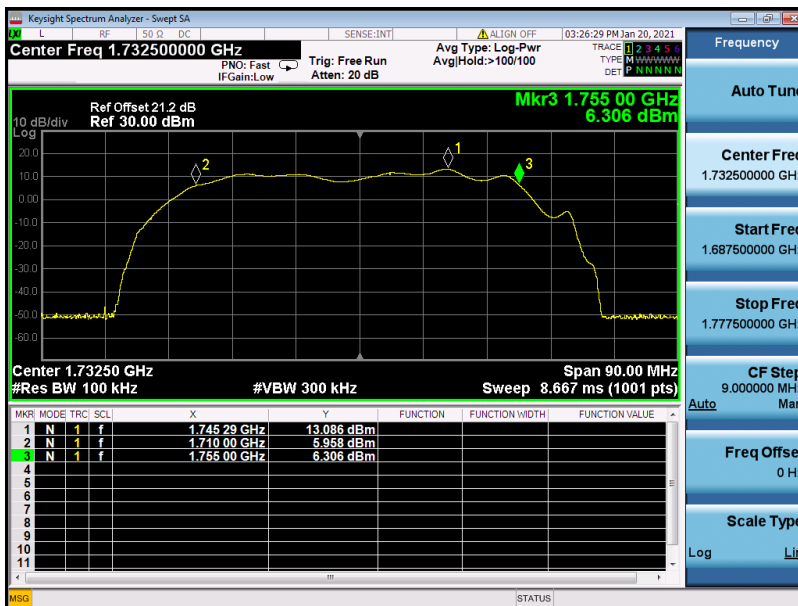
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### Cellular Band



### AWS-1 Band

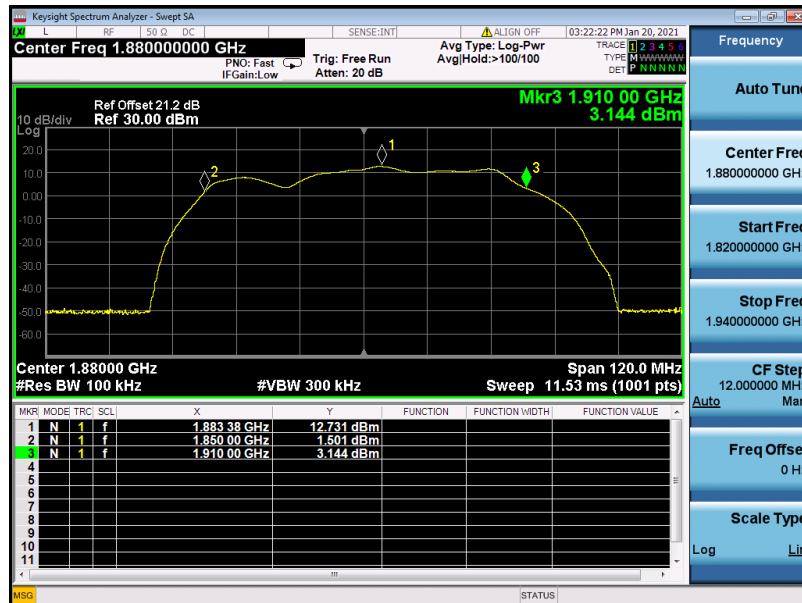


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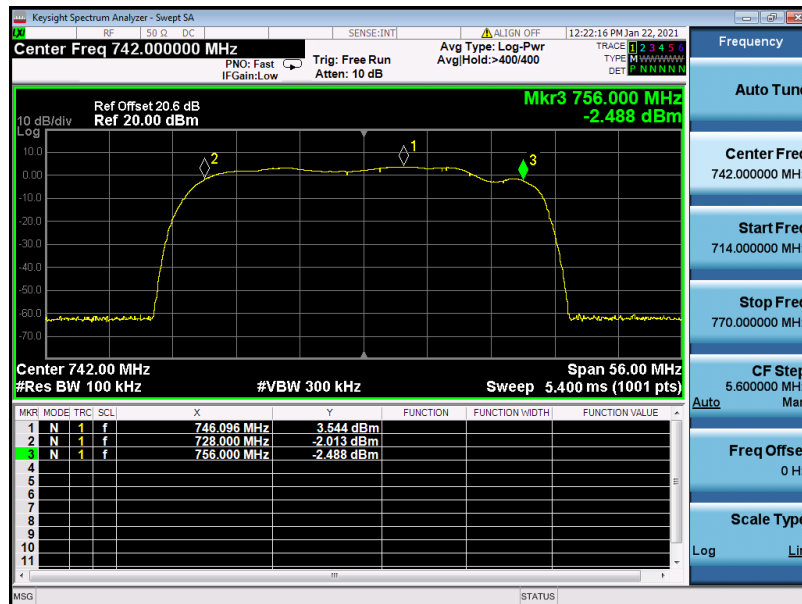


### Broadband PCS Band



### DOWNLINK

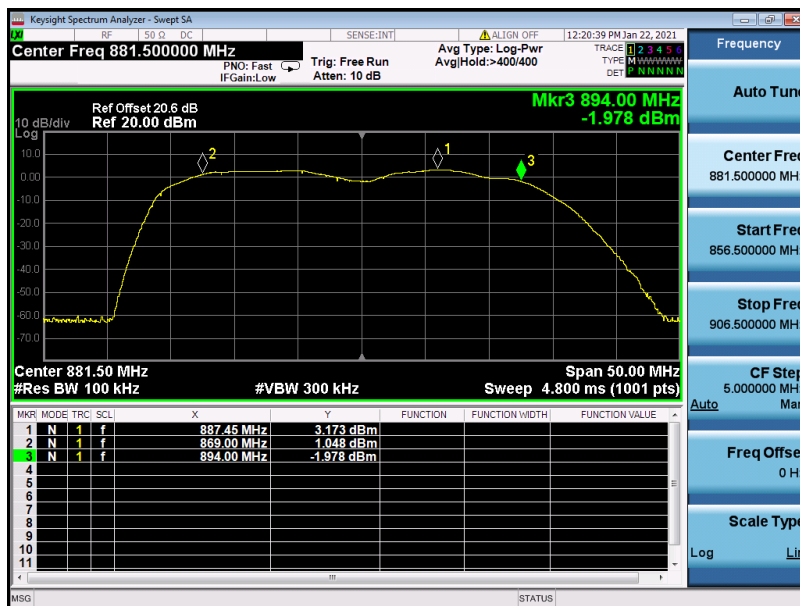
### 700MHz (Lower 700MHz + Upper 700MHz) Band



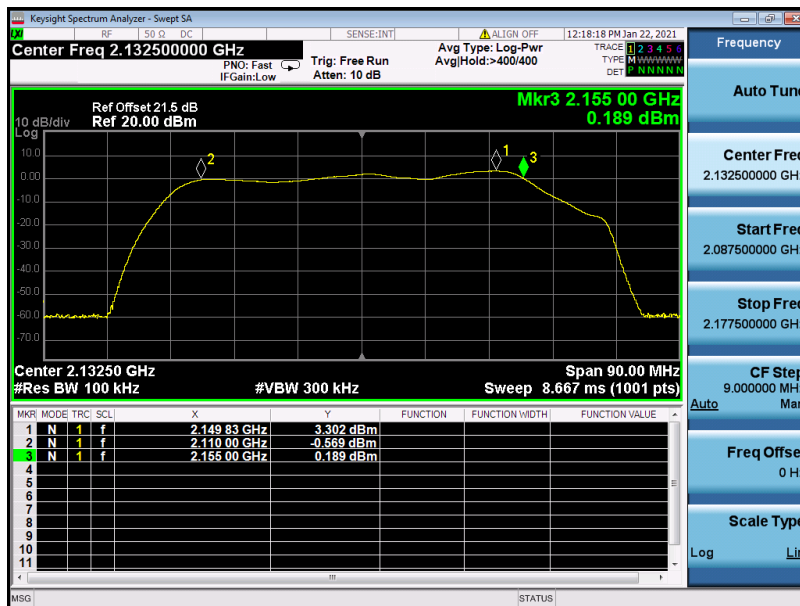
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### Cellular Band



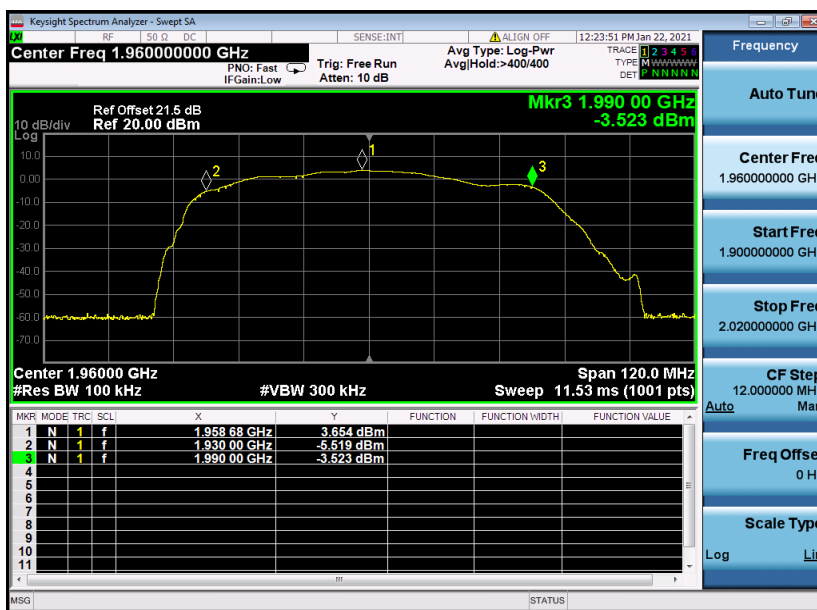
### AWS-1 Band



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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 <sup>1</sup> (dBm)	Conducted Output Power (dBm)	EIRP <sup>2</sup> (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 <sup>1</sup> (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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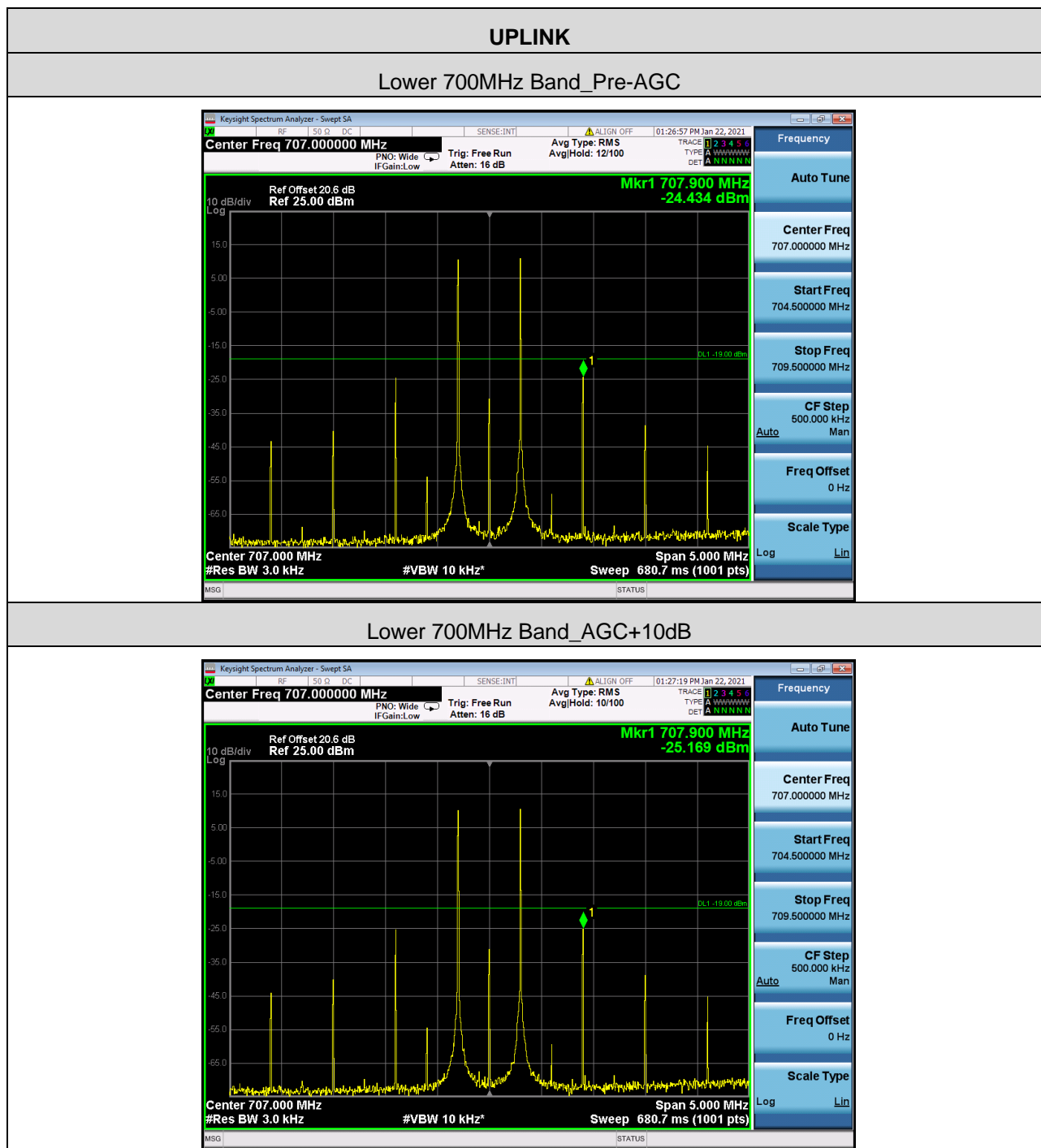
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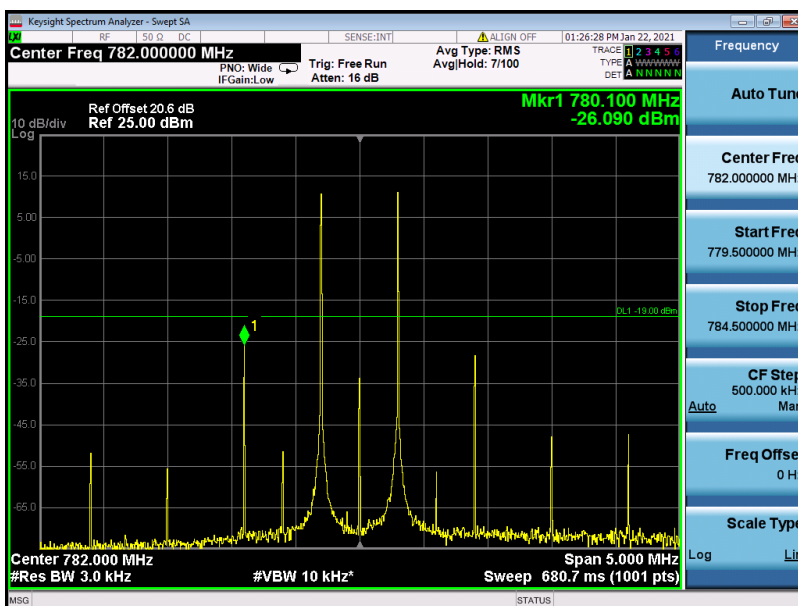
## 4 Intermodulation product



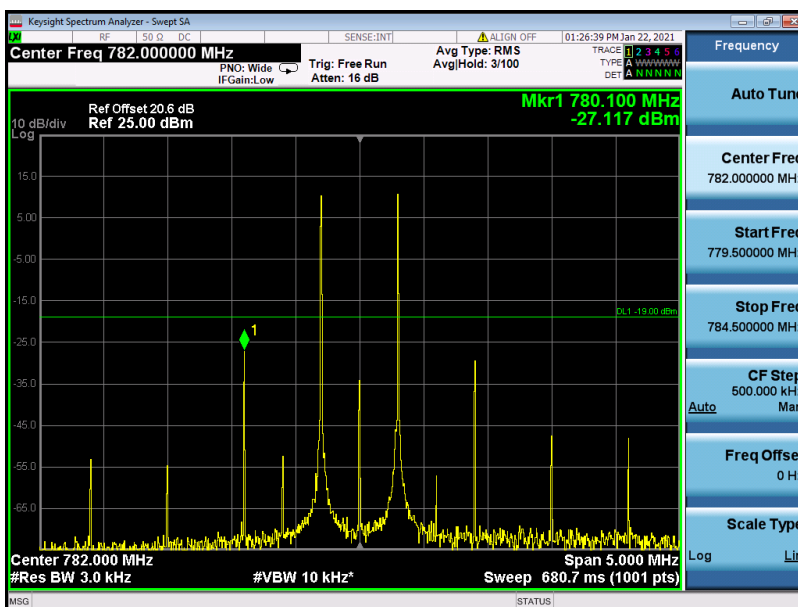
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### Upper 700MHz Band\_Pre-AGC



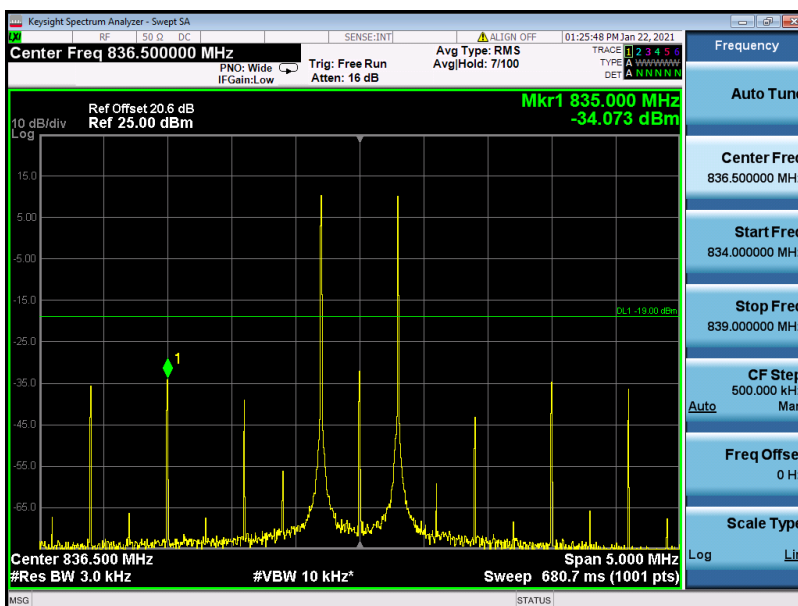
### Upper 700MHz Band\_AGC+10dB



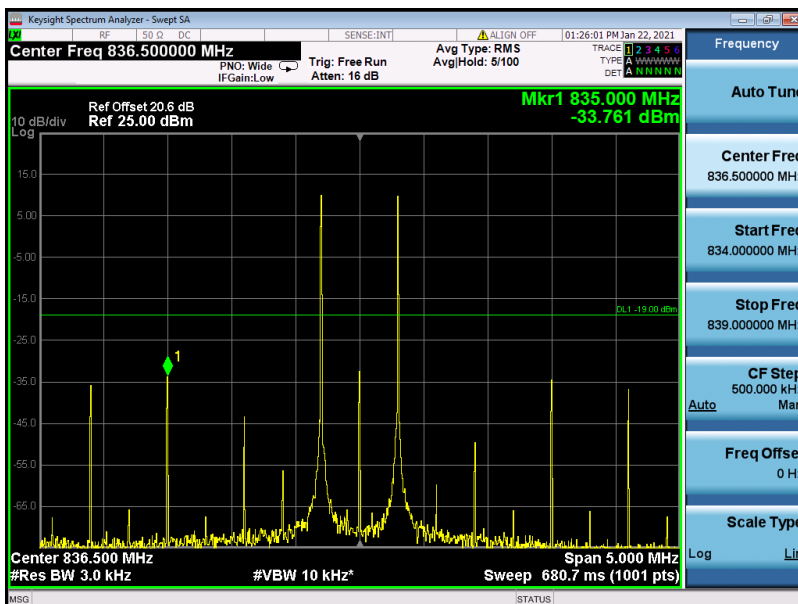
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### Cellular Band\_Pre-AGC



### Cellular Band\_AGC+10dB



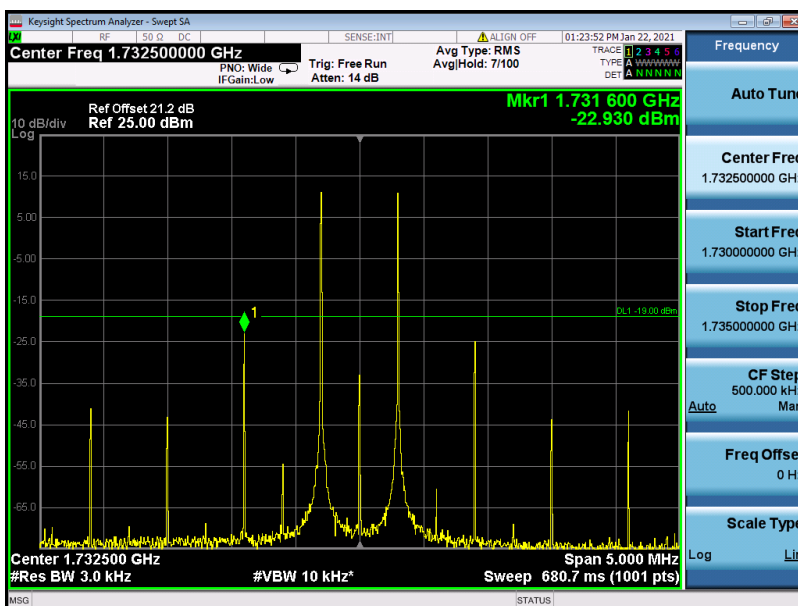
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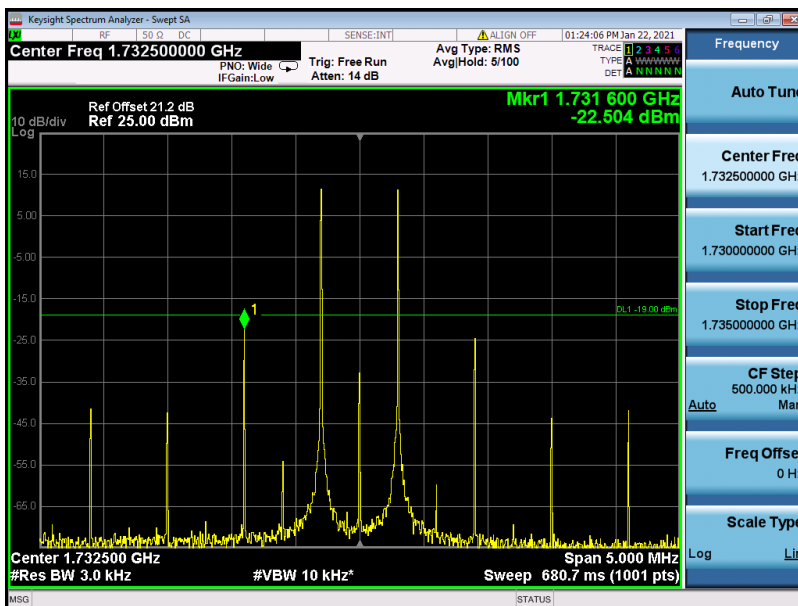
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### AWS-1 Band\_Pre-AGC



### AWS-1 Band\_AGC+10dB

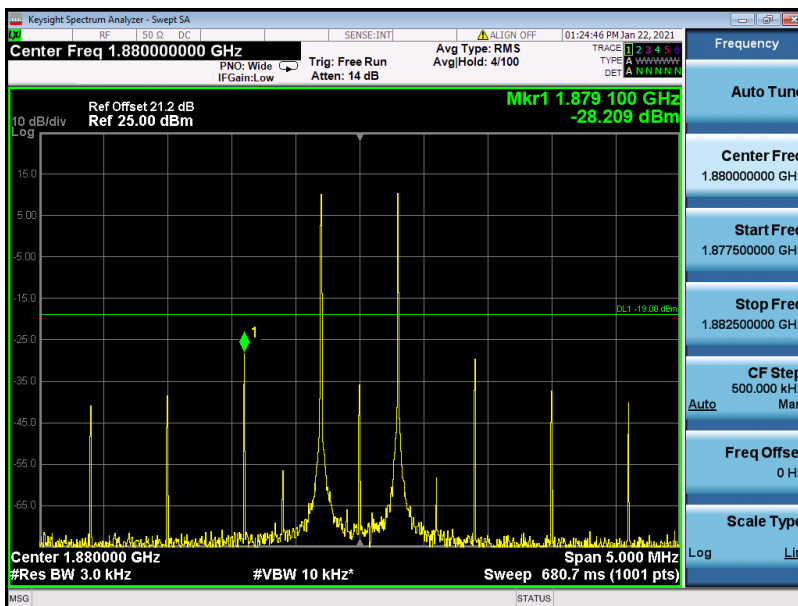


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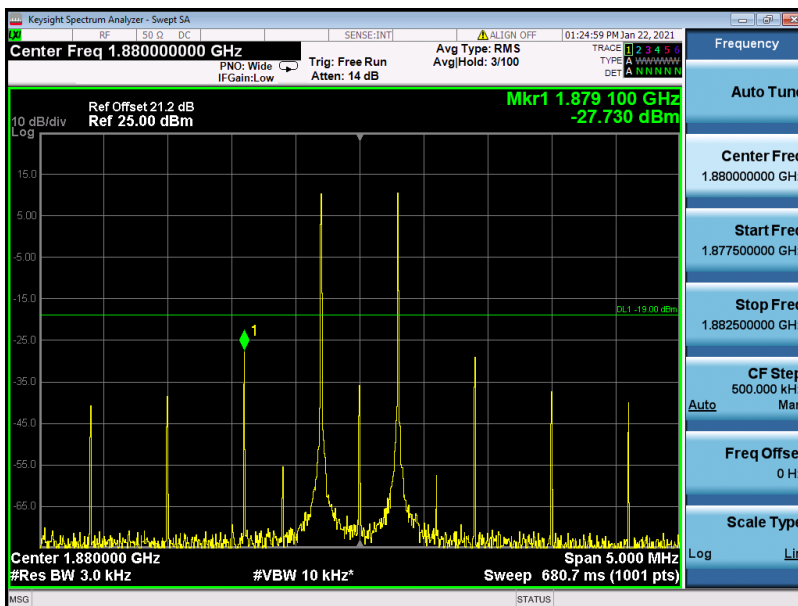
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### Broadband PCS Band\_Pre-AGC



### Broadband PCS Band\_AGC+10dB



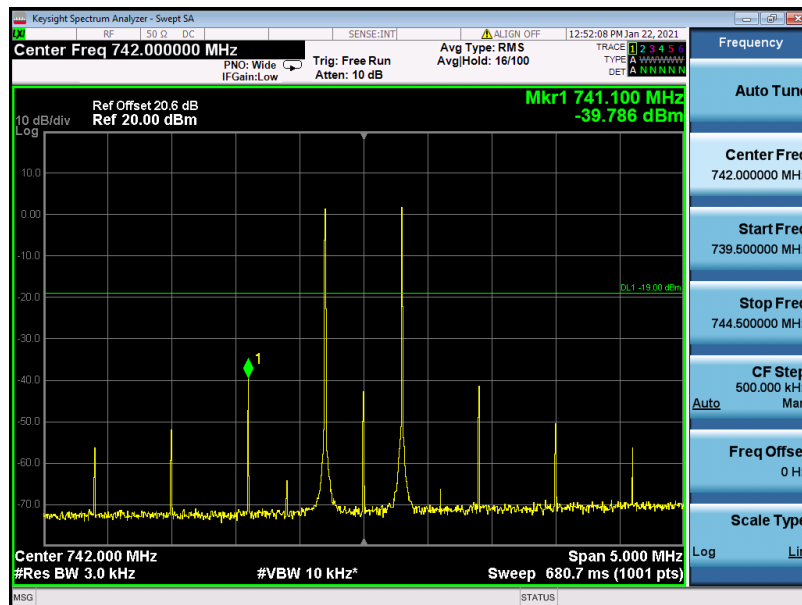
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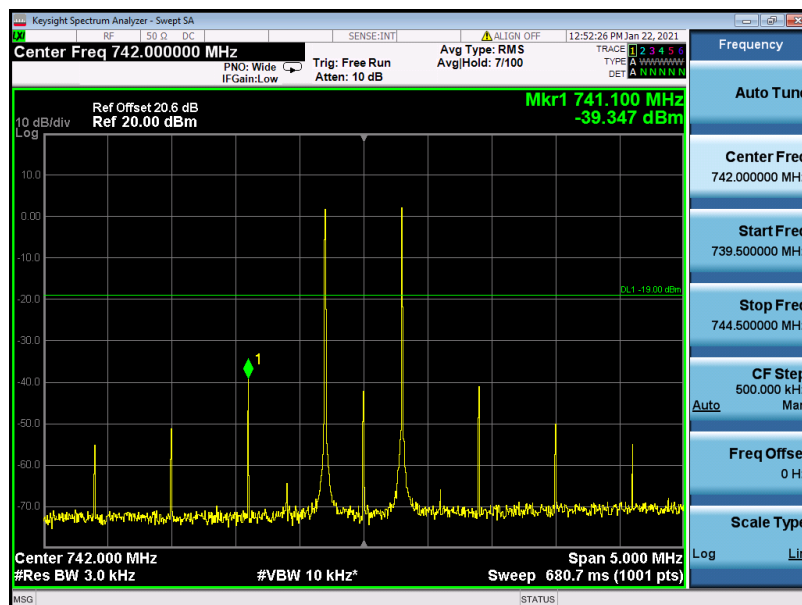
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### DOWNLINK

#### 700MHz (Lower 700MHz + Upper 700MHz) Band\_Pre-AGC



#### 700MHz (Lower 700MHz + Upper 700MHz) Band\_AGC+10dB



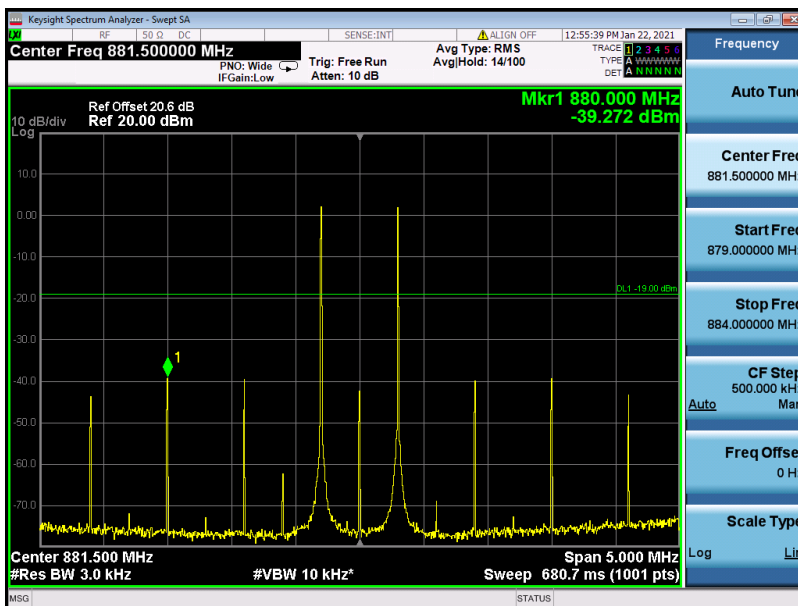
Remark: EUT amplifies Lower 700MHz downlink (728-746MHz) and upper 700MHz downlink (746-756MHz) together, so combined frequency was measured for intermodulation product in this report, the center frequency is 742MHz.



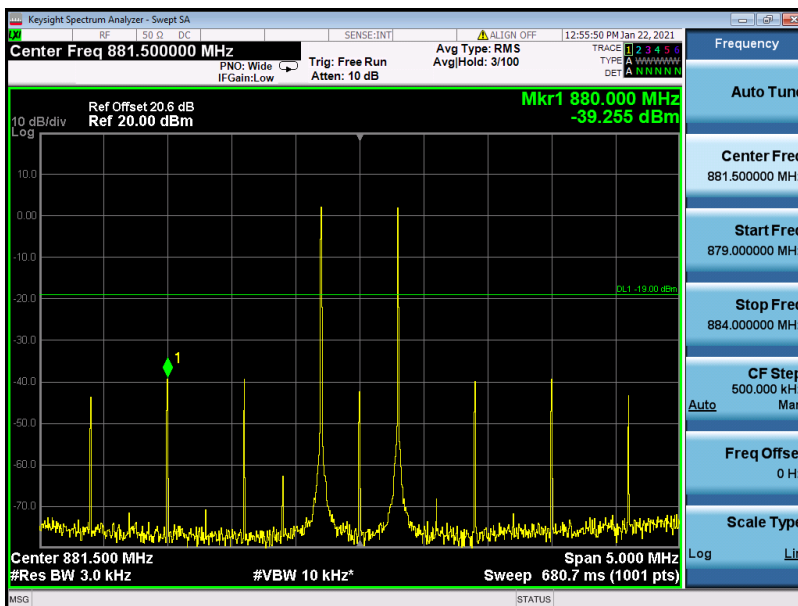
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### Cellular Band\_Pre-AGC



### Cellular Band\_AGC+10dB

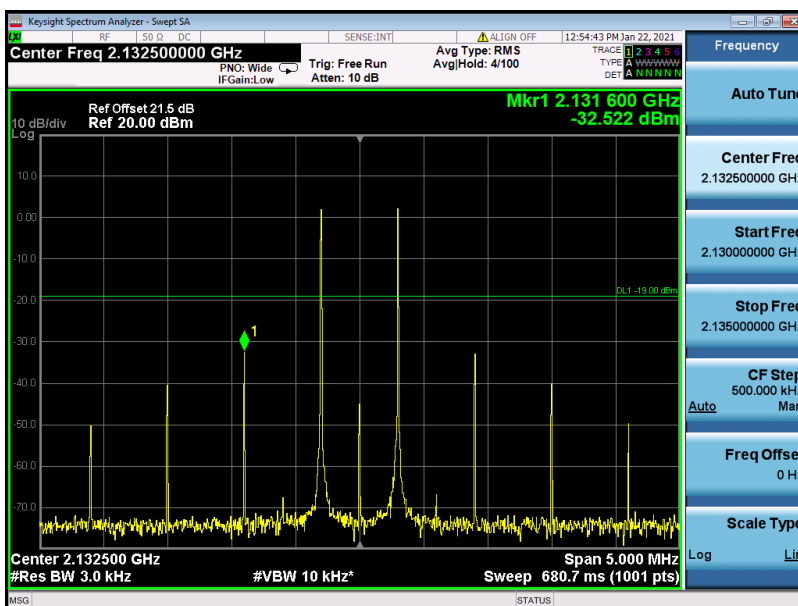


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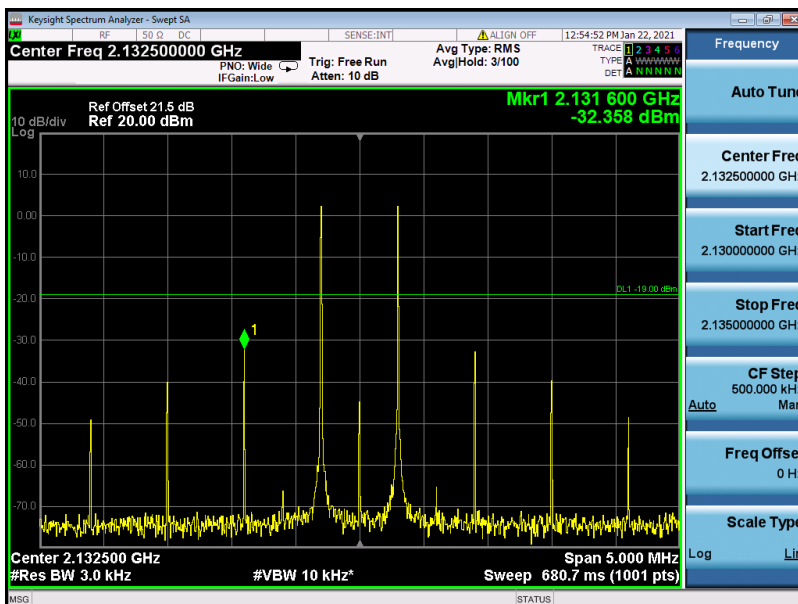
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### AWS-1 Band\_Pre-AGC



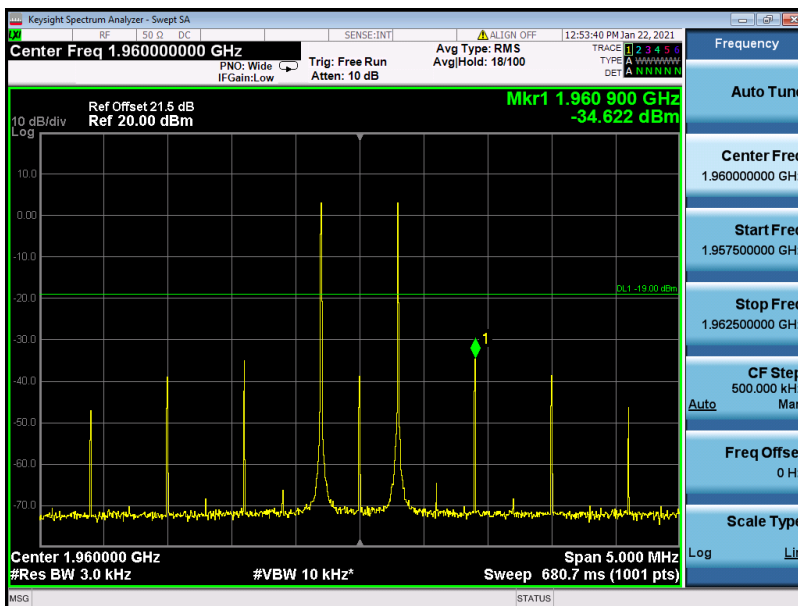
### AWS-1 Band\_AGC+10dB



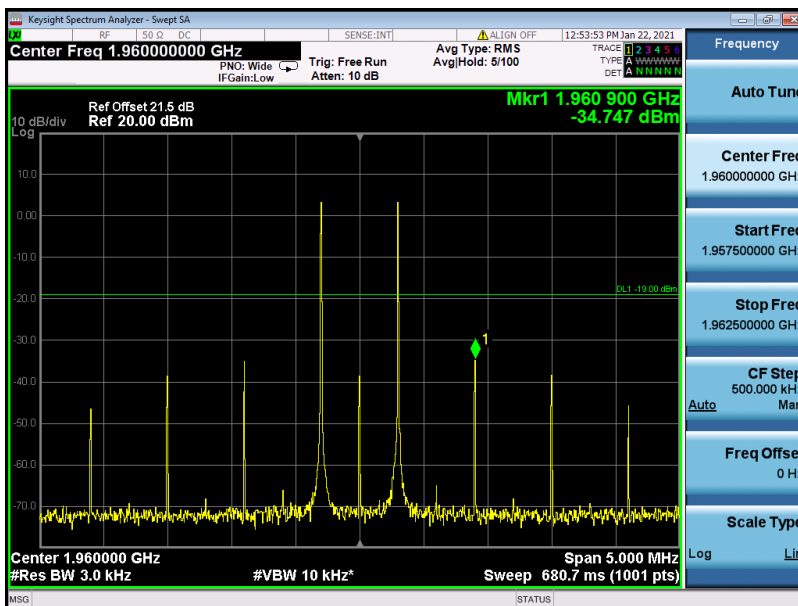
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### Broadband PCS Band\_Pre-AGC



### Broadband PCS Band\_AGC+10dB



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## 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 =  $\{P - [43 + 10 \log_{10} (P)]\} - 6\text{dB} = -19\text{dBm}$

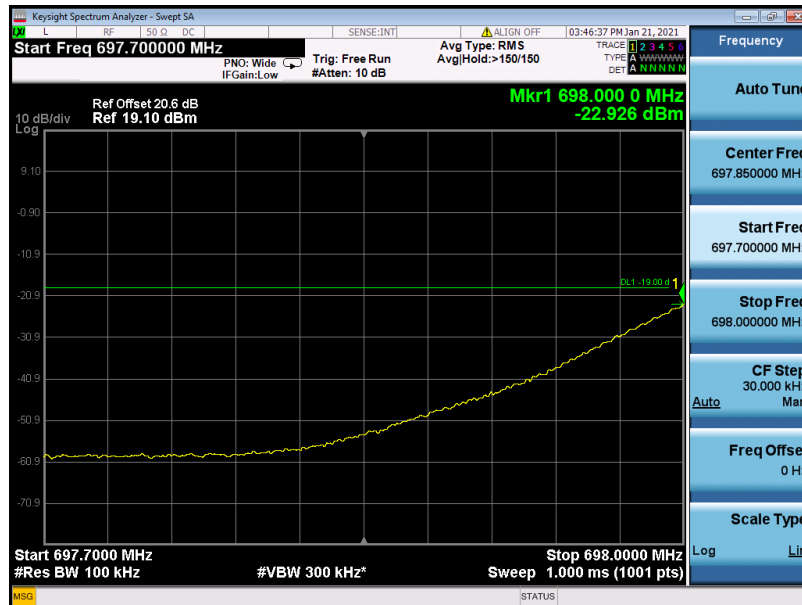
2. EUT amplifies Lower 700MHz downlink (728-746MHz) and upper 700MHz downlink (746-756MHz) together, so combined frequency was measured for out-of-band emissions in this report.



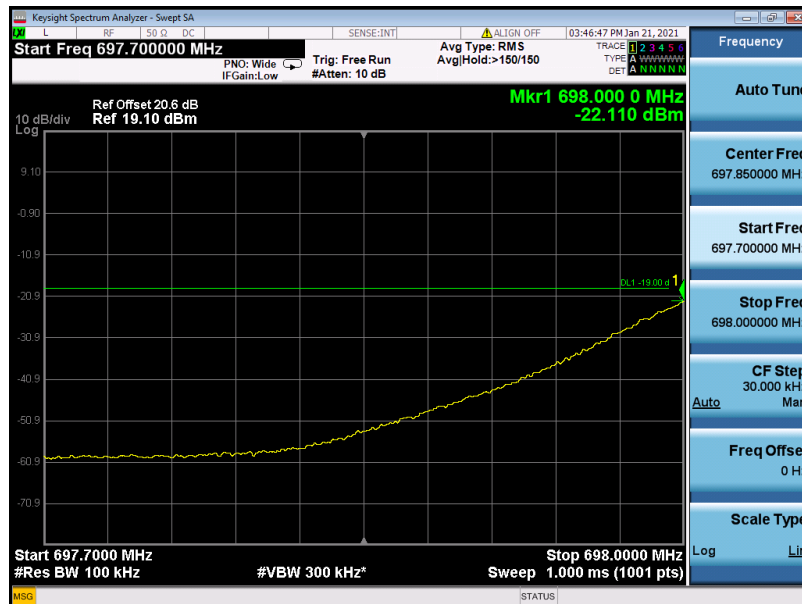
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### UPLINK\_GSM signal type

#### Lower 700MHz Band\_Lower band edge\_Pre-AGC



#### Lower 700MHz Band\_Lower band edge\_AGC+10dB

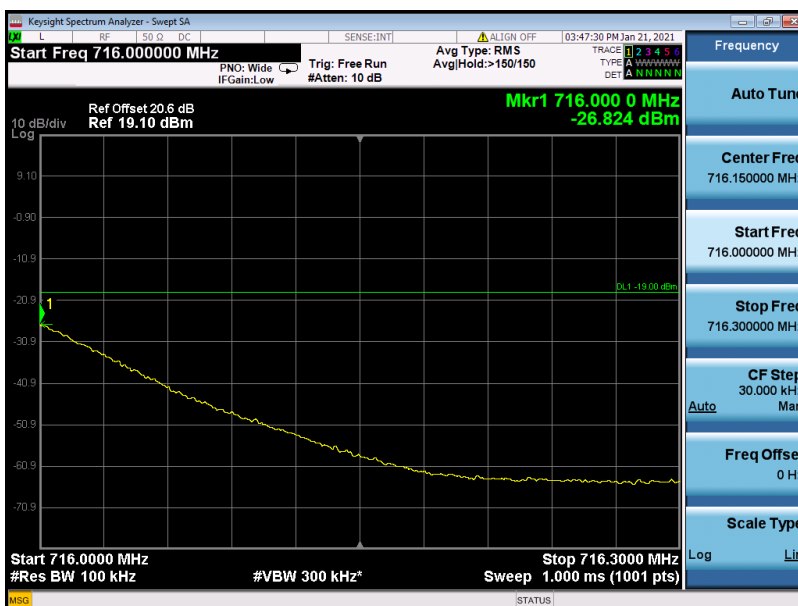


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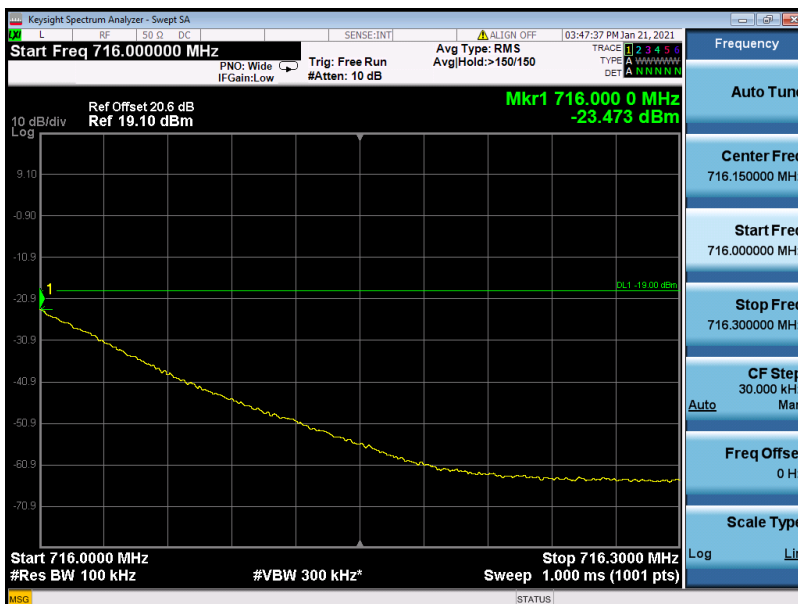
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### Lower 700MHz Band\_Upper band edge\_Pre-AGC



### Lower 700MHz Band\_Upper band edge\_AG+10dB

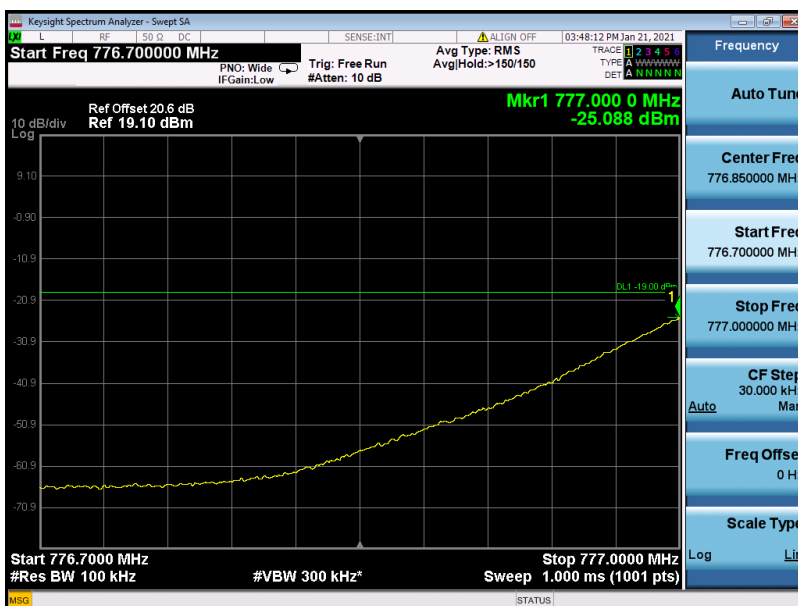


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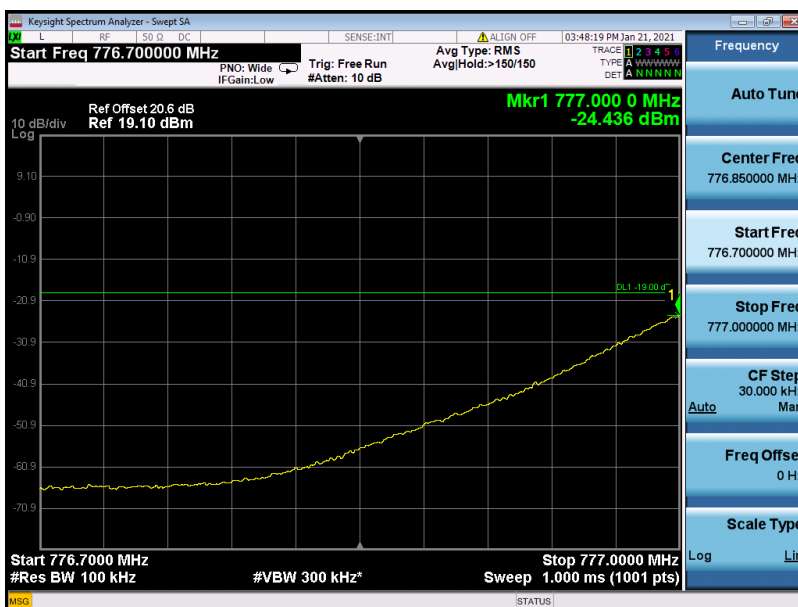
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### Upper 700MHz Band\_Lower band edge\_Pre-AGC



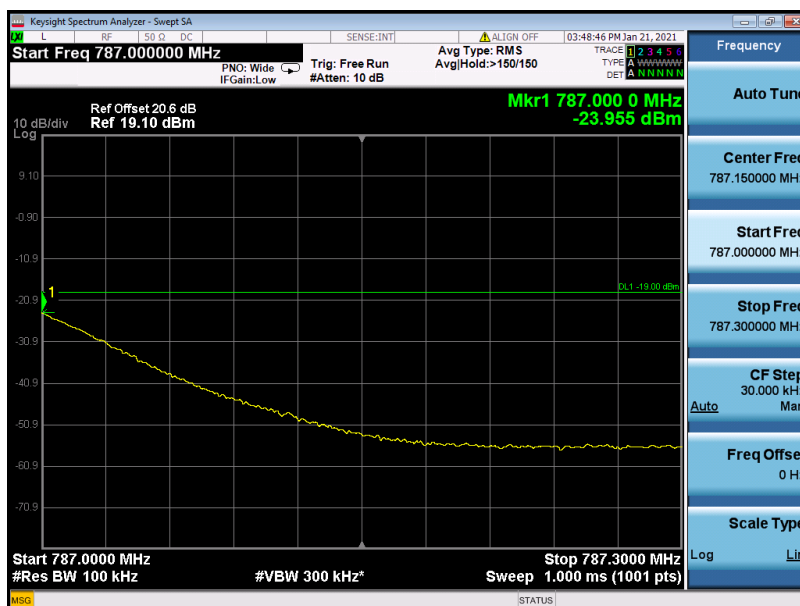
### Upper 700MHz Band\_Lower band edge\_AGC+10dB



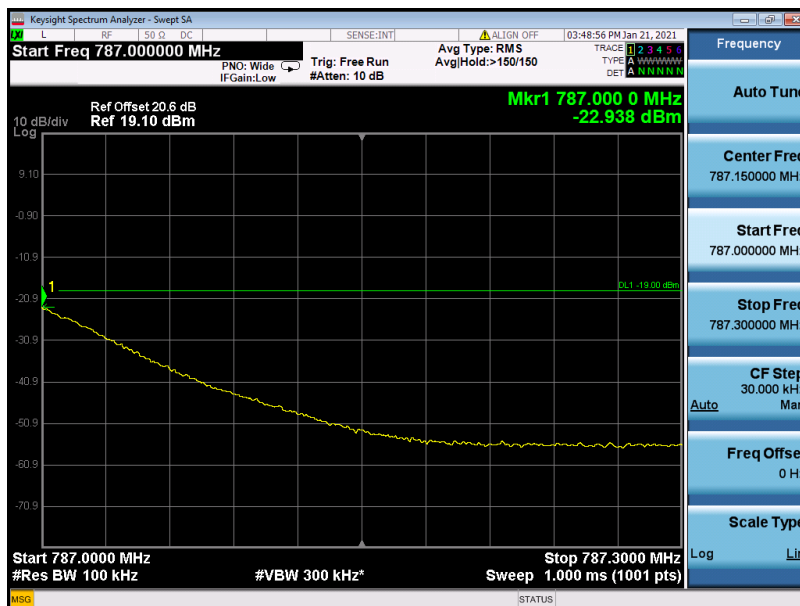
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### Upper 700MHz Band\_Upper band edge\_Pre-AGC



### Upper 700MHz Band\_Upper band edge\_AG+10dB

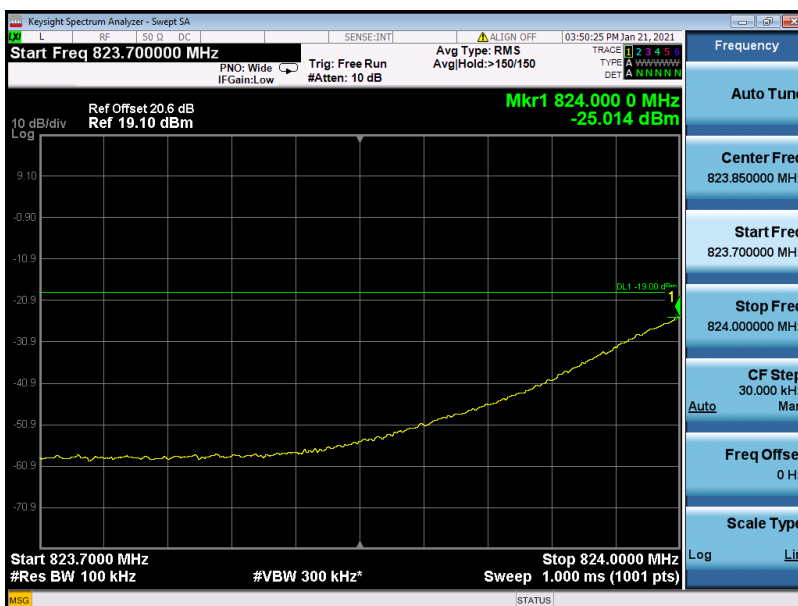


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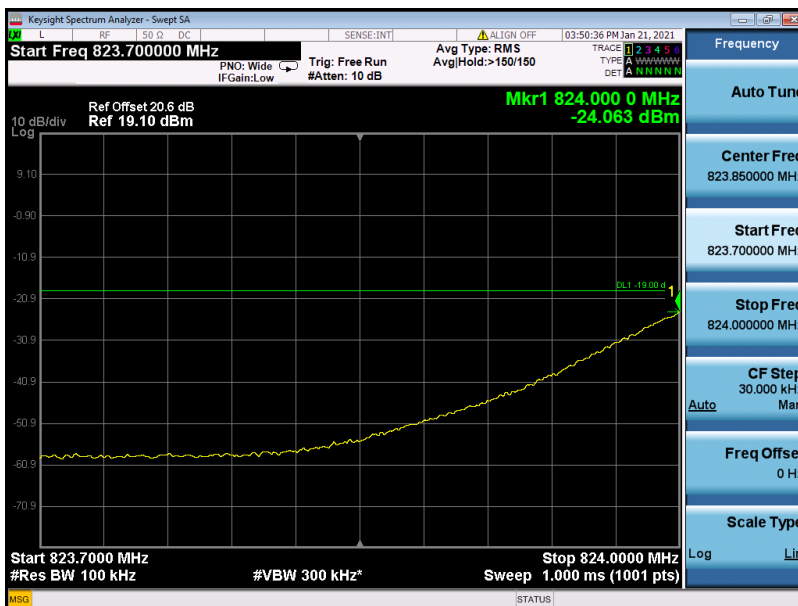
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### Cellular Band\_Lower band edge\_Pre-AGC



### Cellular Band\_Lower band edge\_AGC+10dB

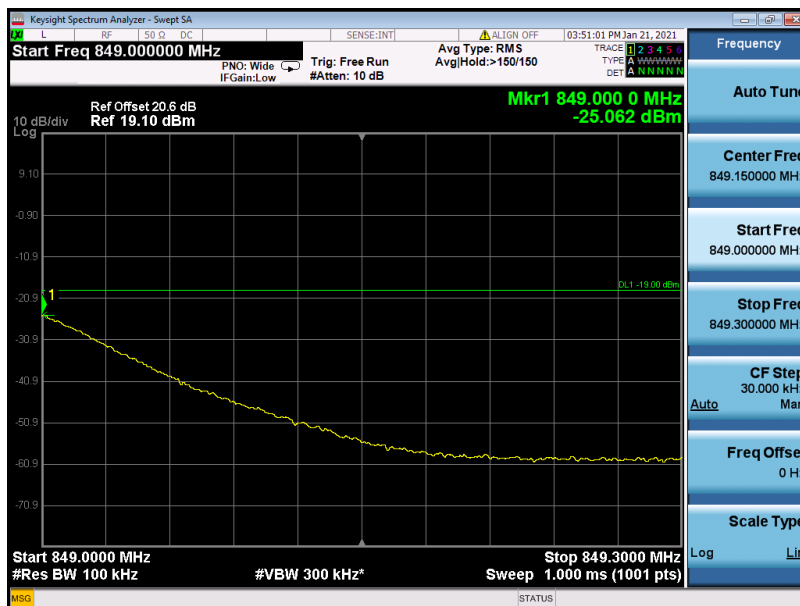


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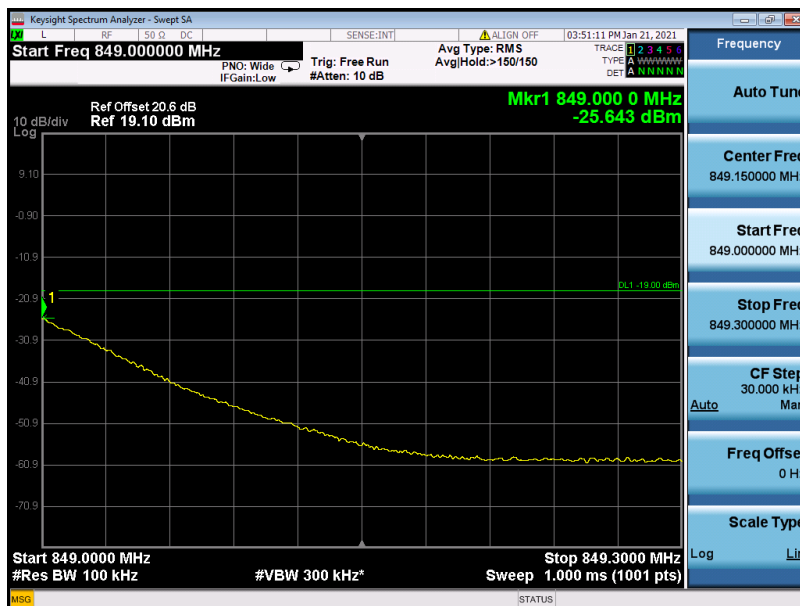
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### Cellular Band\_Upper band edge\_Pre-AGC



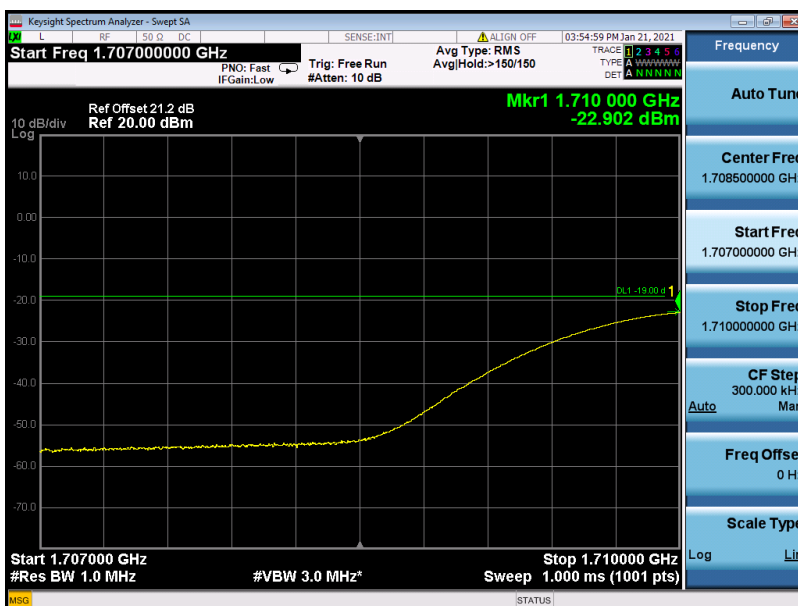
### Cellular Band\_Upper band edge\_AGC+10dB



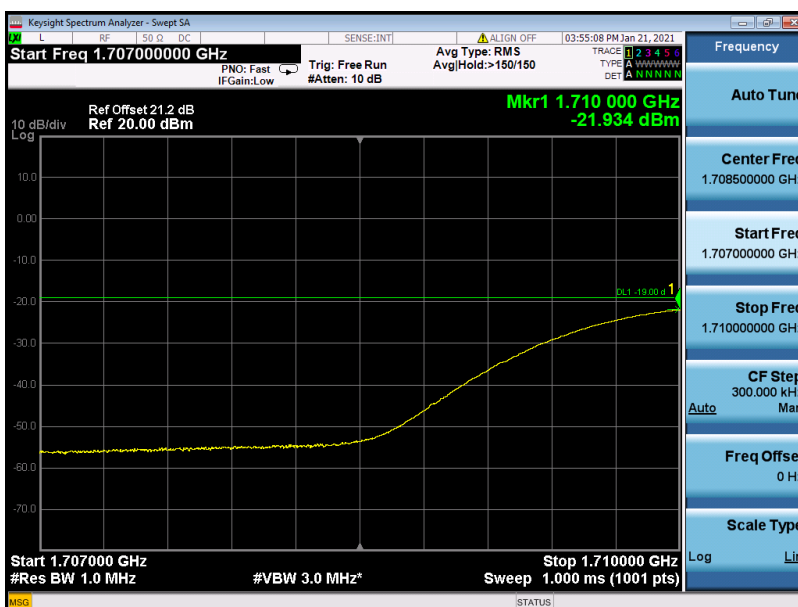
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### AWS-1 Band\_Lower band edge\_Pre-AGC



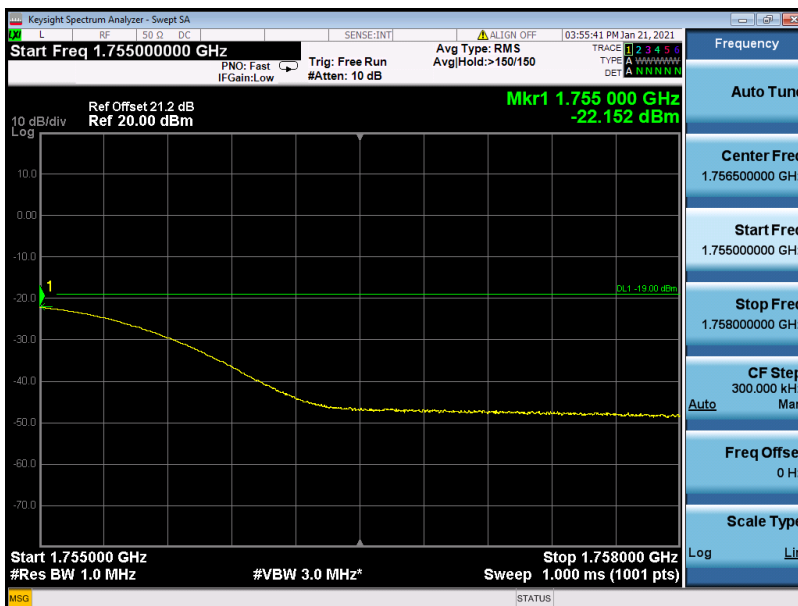
### AWS-1 Band\_Lower band edge\_AGC+10dB



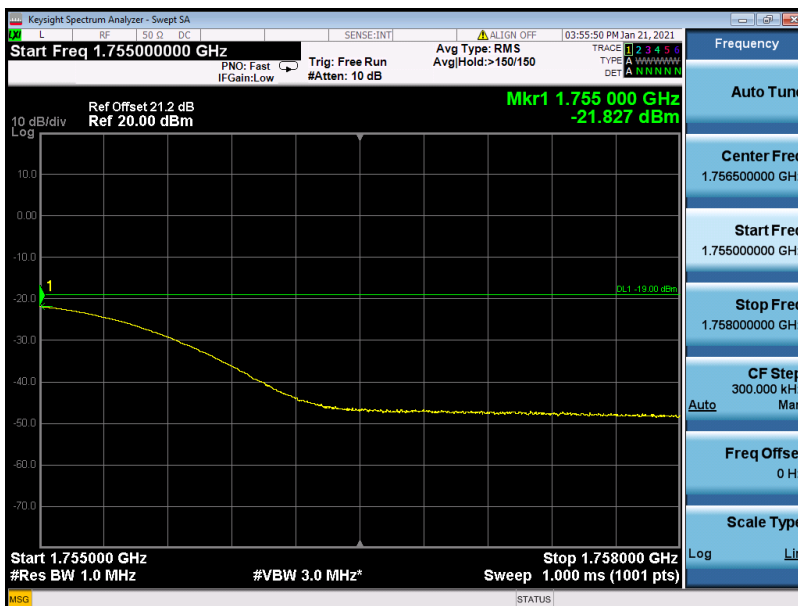
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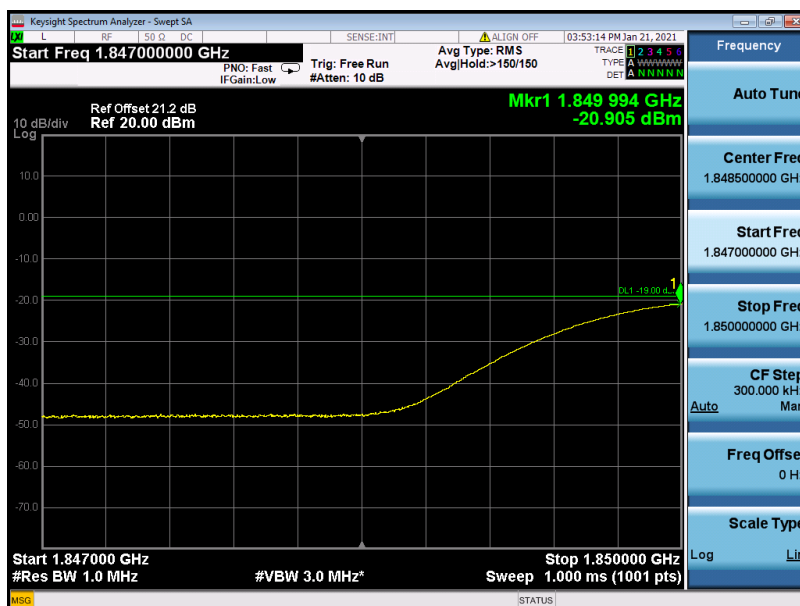
## AWS-1 Band\_Upper band edge\_Pre-AGC



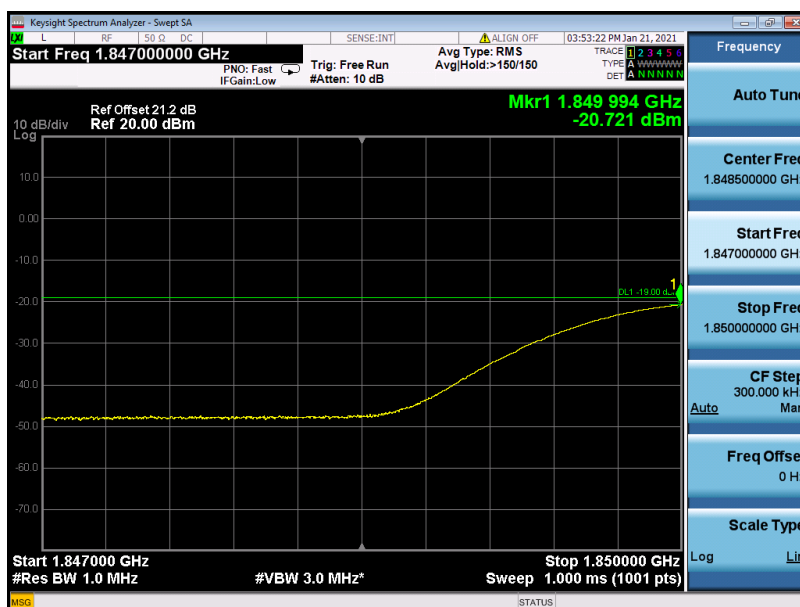
## AWS-1 Band\_Upper band edge\_AGC+10dB



## Broadband PCS Band\_Lower band edge\_Pre-AGC



## Broadband PCS Band\_Lower band edge\_AG+10dB



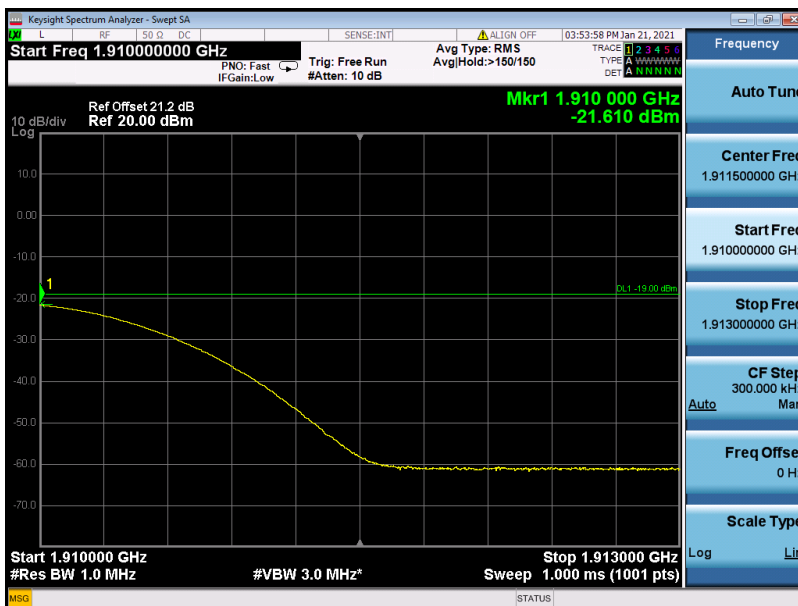
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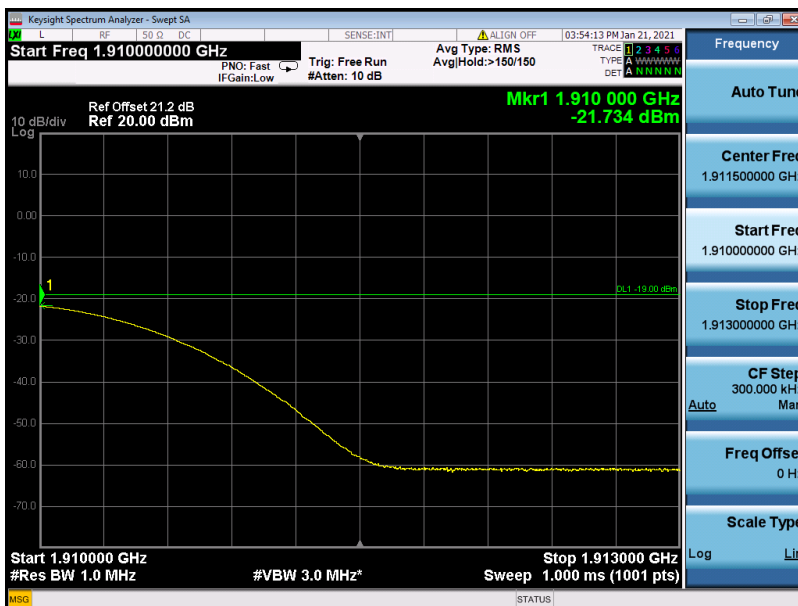
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### Broadband PCS Band\_Upper band edge\_Pre-AGC



### Broadband PCS Band\_Upper band edge\_AG+10dB



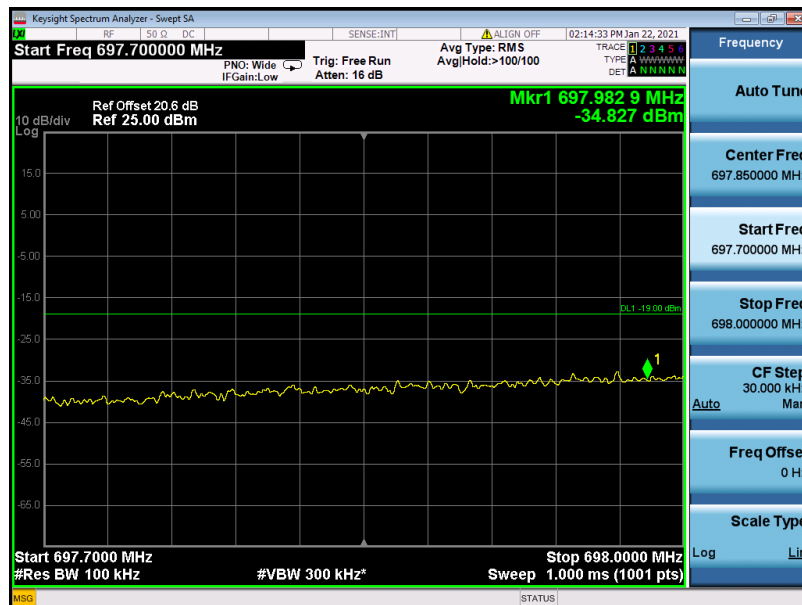
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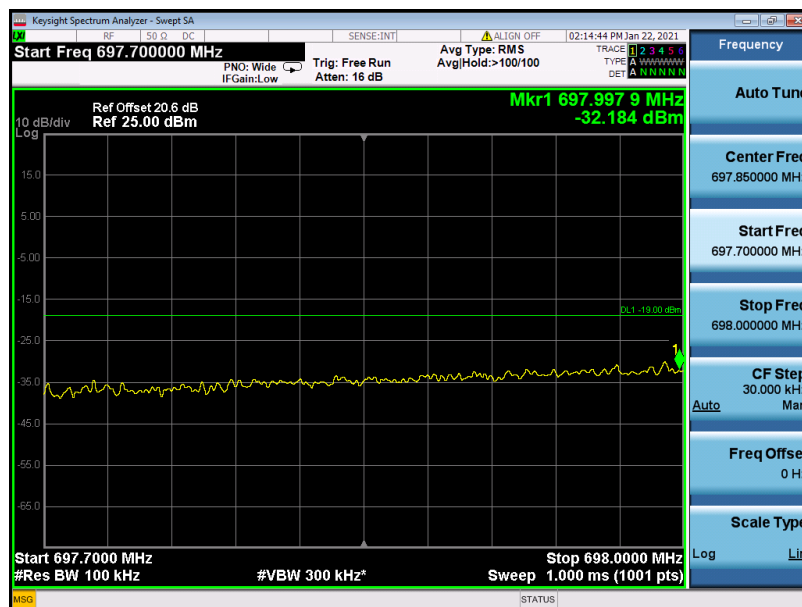
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### UPLINK\_1.25MHz AWGN signal type

#### Lower 700MHz Band\_Lower band edge\_Pre-AGC



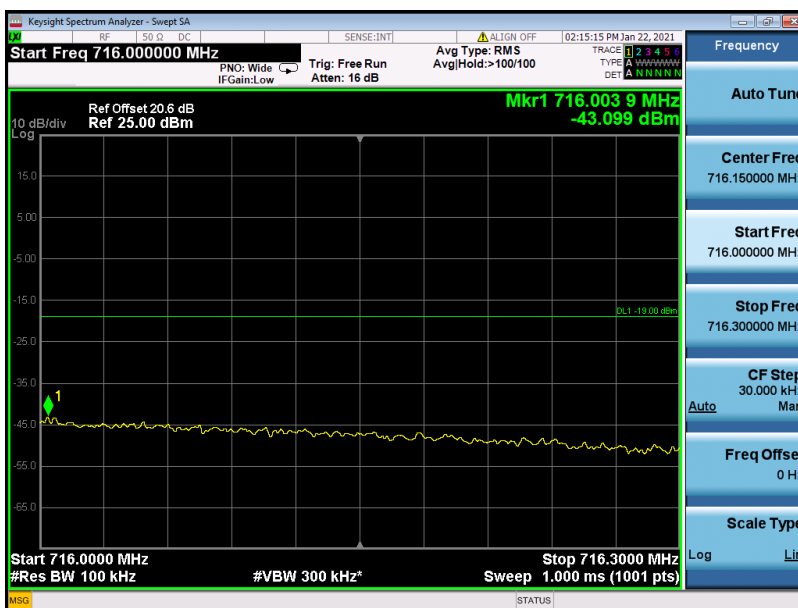
#### Lower 700MHz Band\_Lower band edge\_AGC+10dB



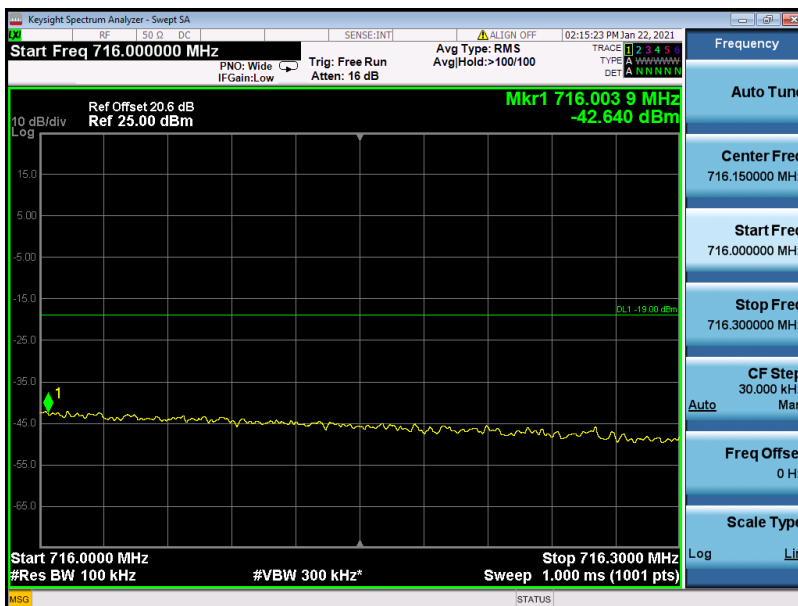
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### Lower 700MHz Band\_Upper band edge\_Pre-AGC



### Lower 700MHz Band\_Upper band edge\_AGC+10dB

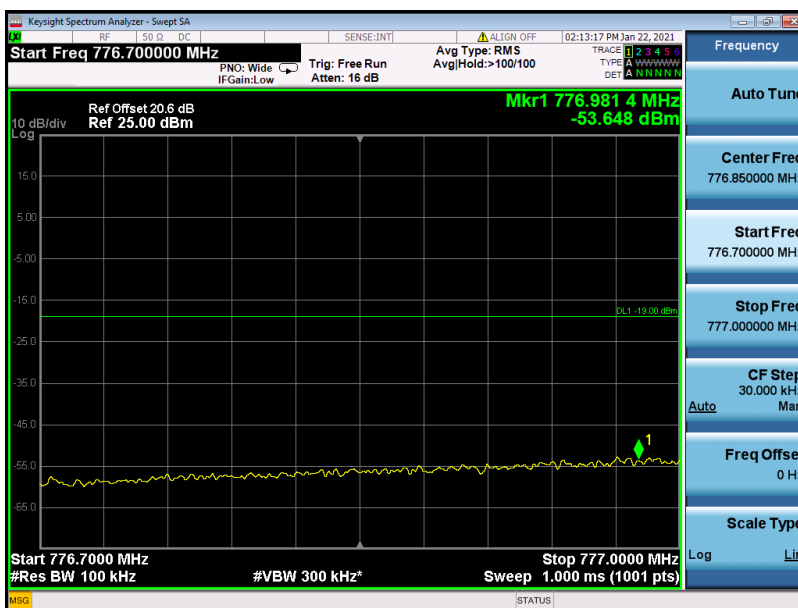


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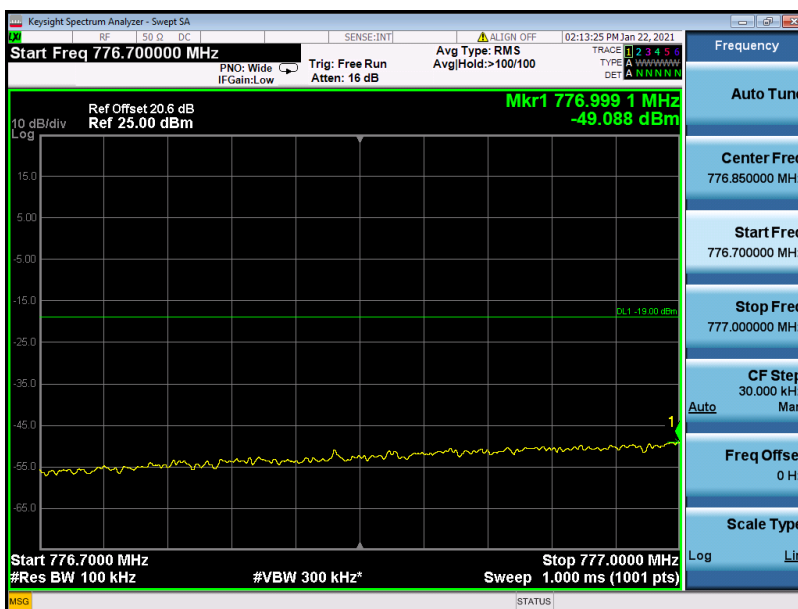
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### Upper 700MHz Band\_Lower band edge\_Pre-AGC



### Upper 700MHz Band\_Lower band edge\_AGC+10dB

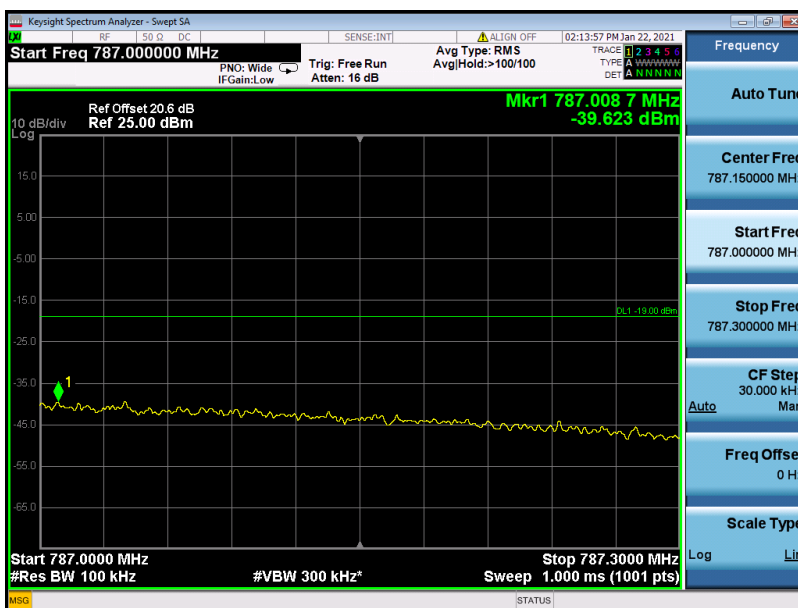


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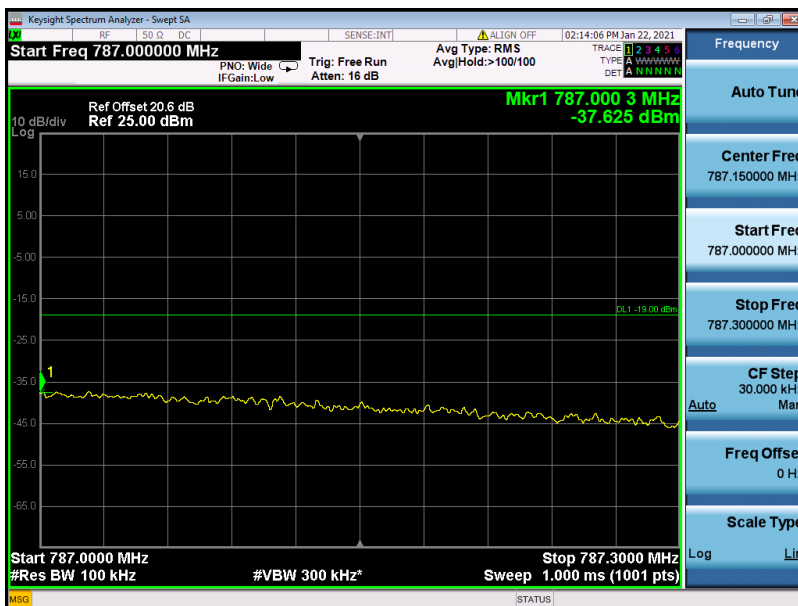
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### Upper 700MHz Band\_Upper band edge\_Pre-AGC



### Upper 700MHz Band\_Upper band edge\_AGC+10dB

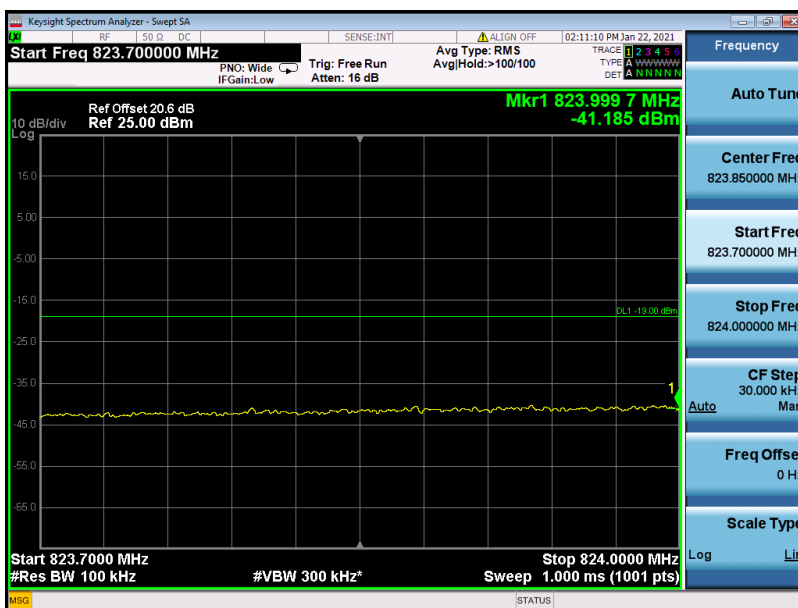


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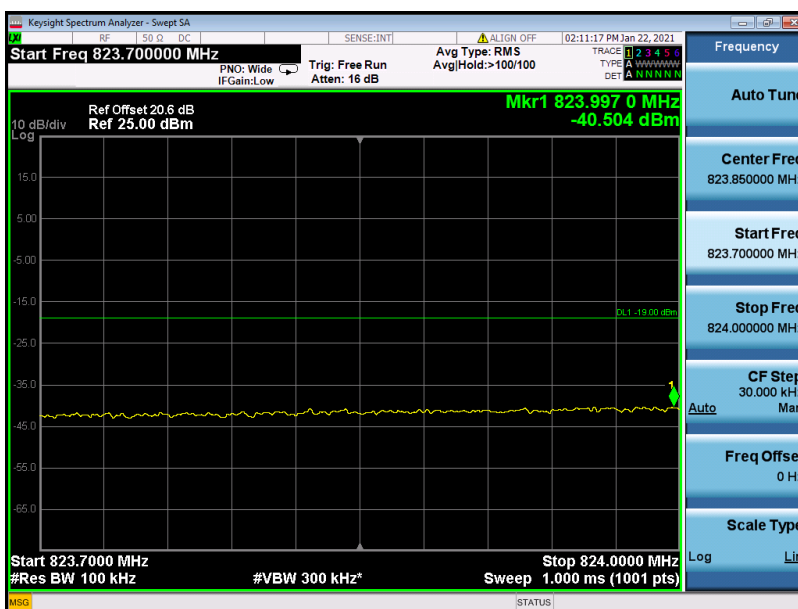
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### Cellular Band\_Lower band edge\_Pre-AGC



### Cellular Band\_Lower band edge\_AGC+10dB

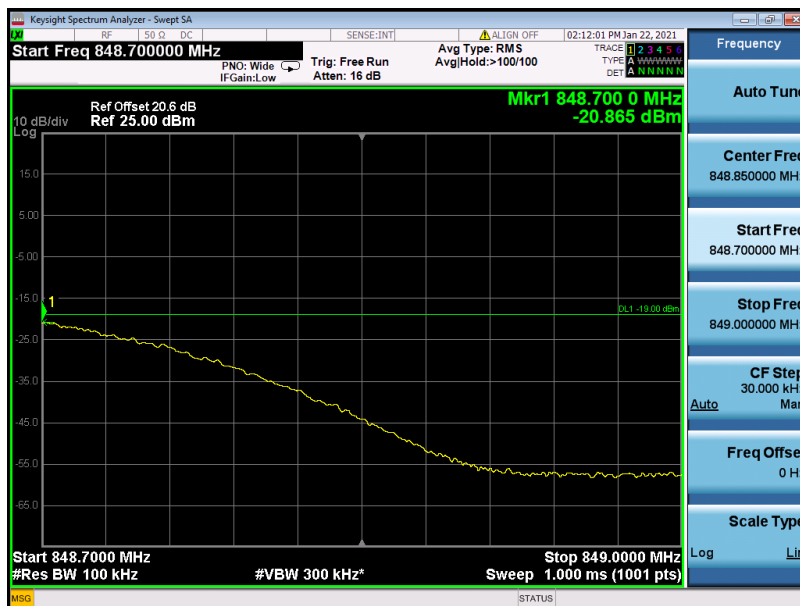


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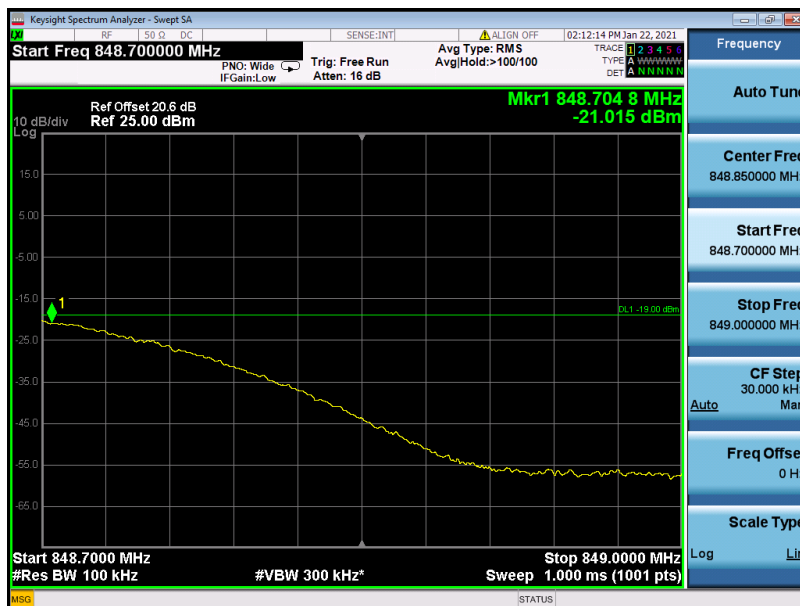
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### Cellular Band\_Upper band edge\_Pre-AGC



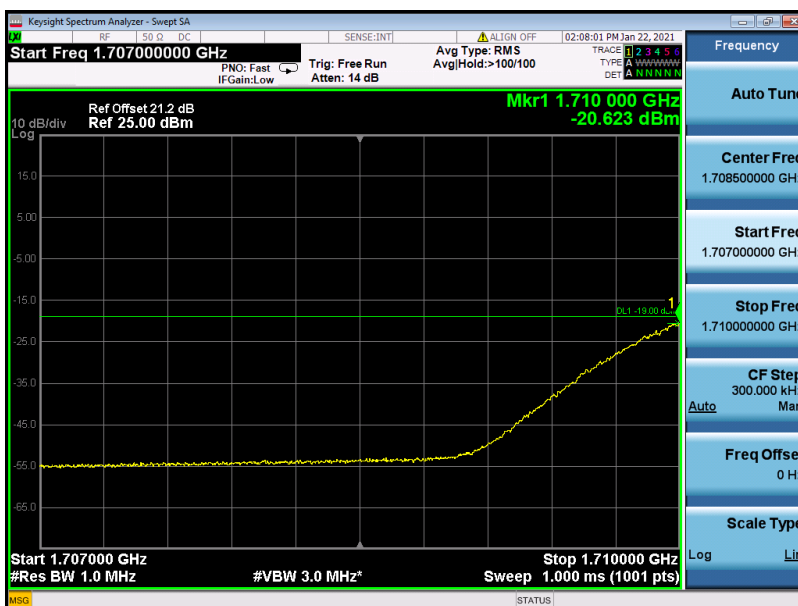
### Cellular Band\_Upper band edge\_AGC+10dB



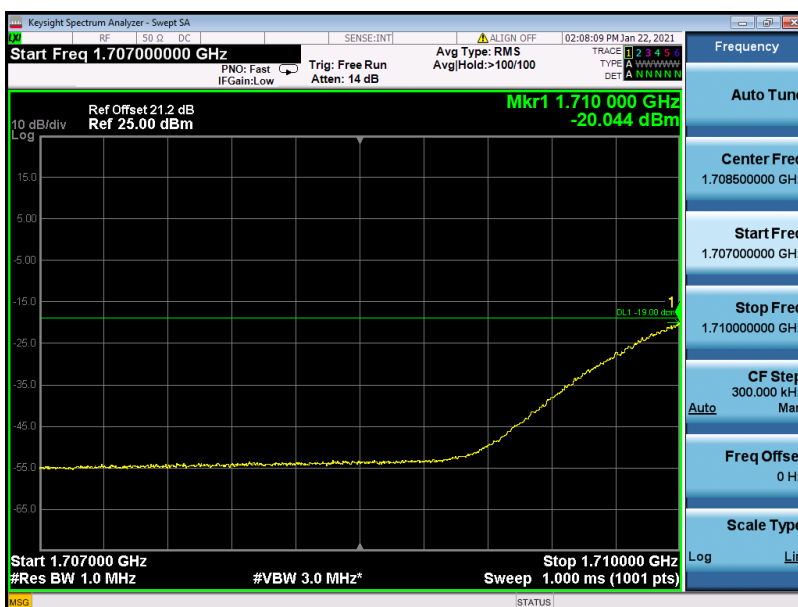
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### AWS-1 Band\_Lower band edge\_Pre-AGC



### AWS-1 Band\_Lower band edge\_AGC+10dB



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### AWS-1 Band\_Upper band edge\_Pre-AGC



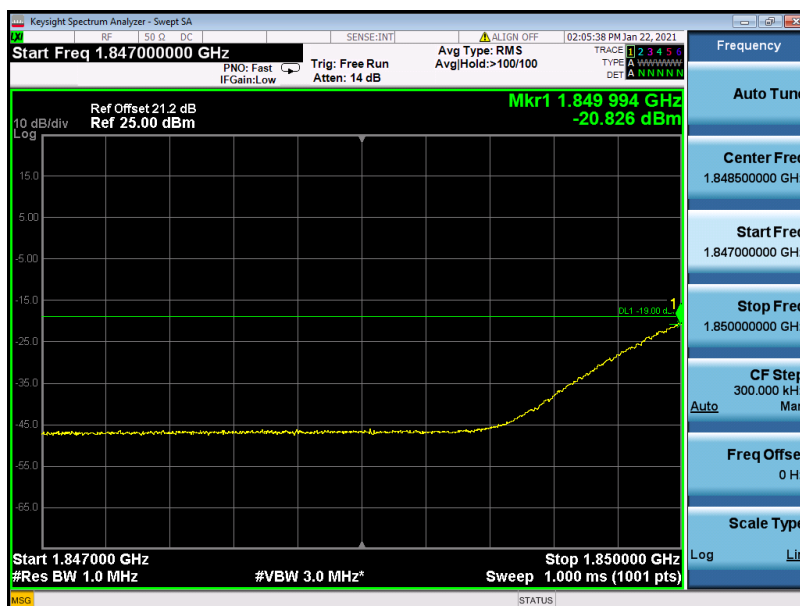
### AWS-1 Band\_Upper band edge\_AGC+10dB



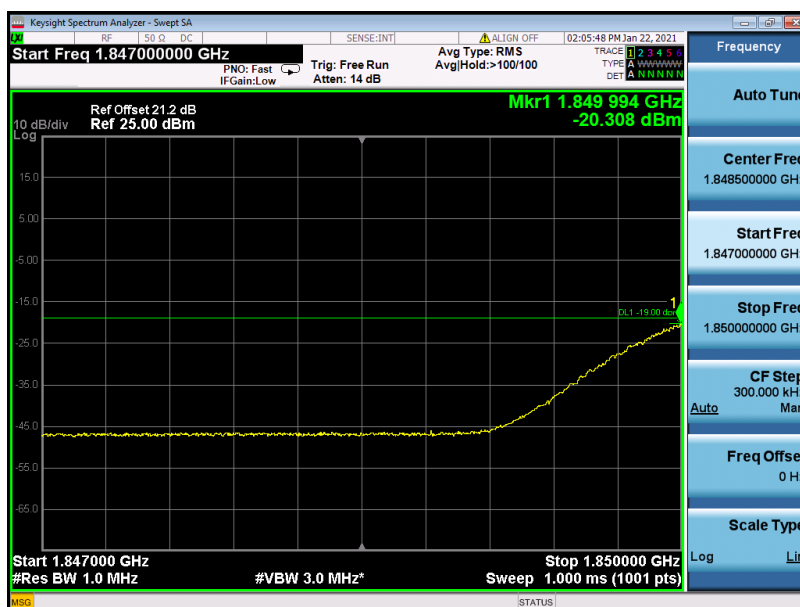
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### Broadband PCS Band\_Lower band edge\_Pre-AGC



### Broadband PCS Band\_Lower band edge\_AGC+10dB

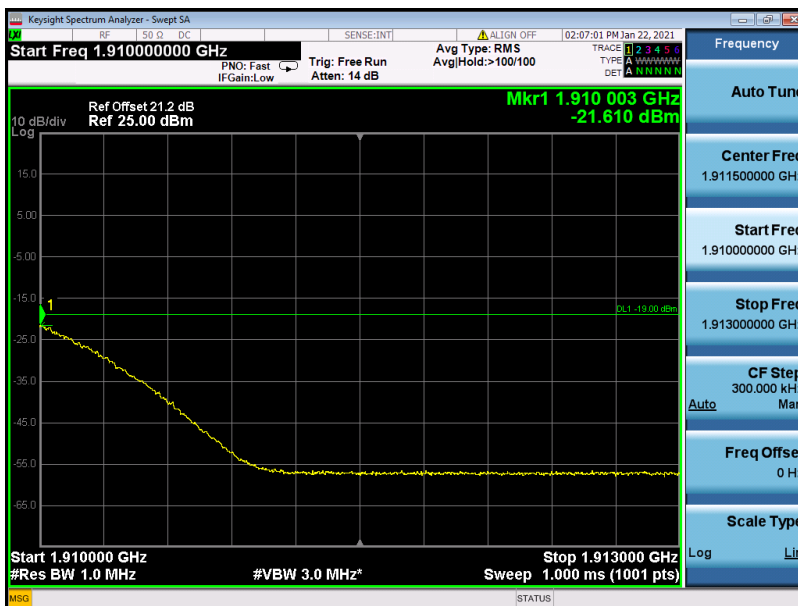


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### Broadband PCS Band\_Upper band edge\_Pre-AGC



### Broadband PCS Band\_Upper band edge\_AGC+10dB



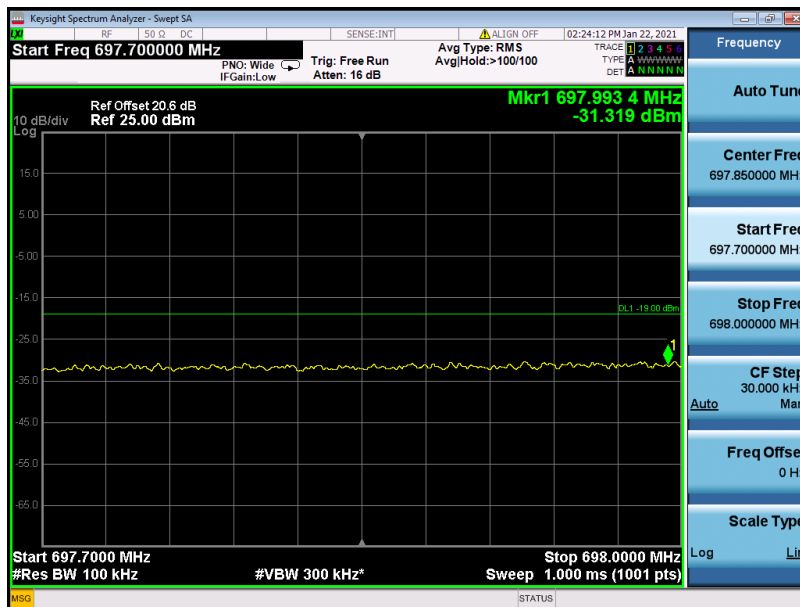
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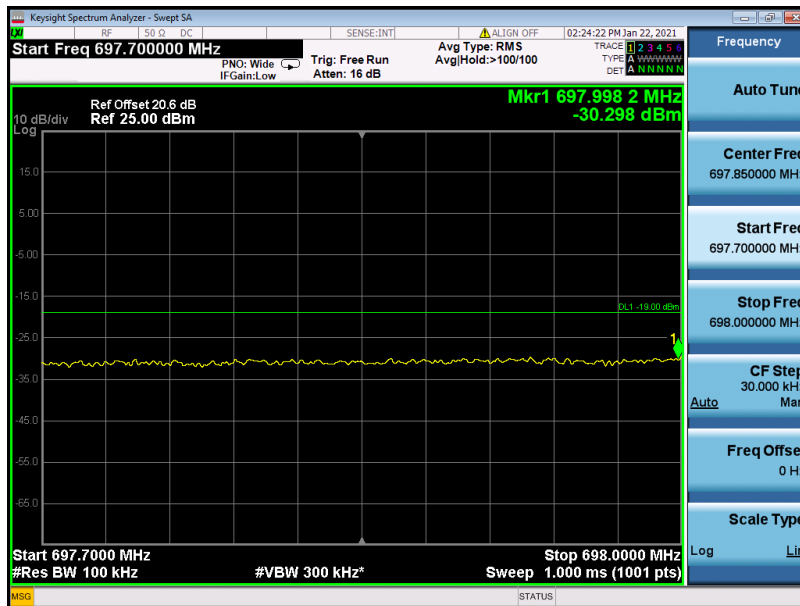
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### UPLINK\_4.1MHz AWGN signal type

#### Lower 700MHz Band\_Lower band edge\_Pre-AGC



#### Lower 700MHz Band\_Lower band edge\_AGC+10dB

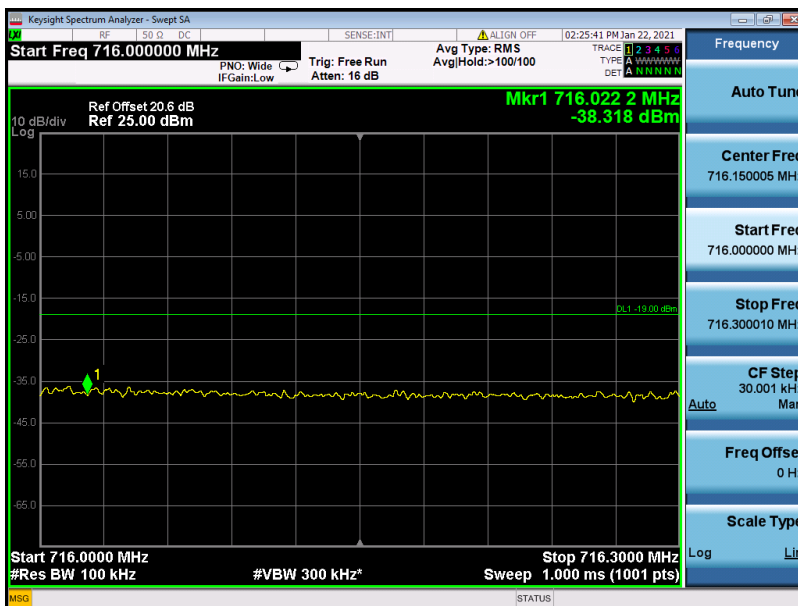


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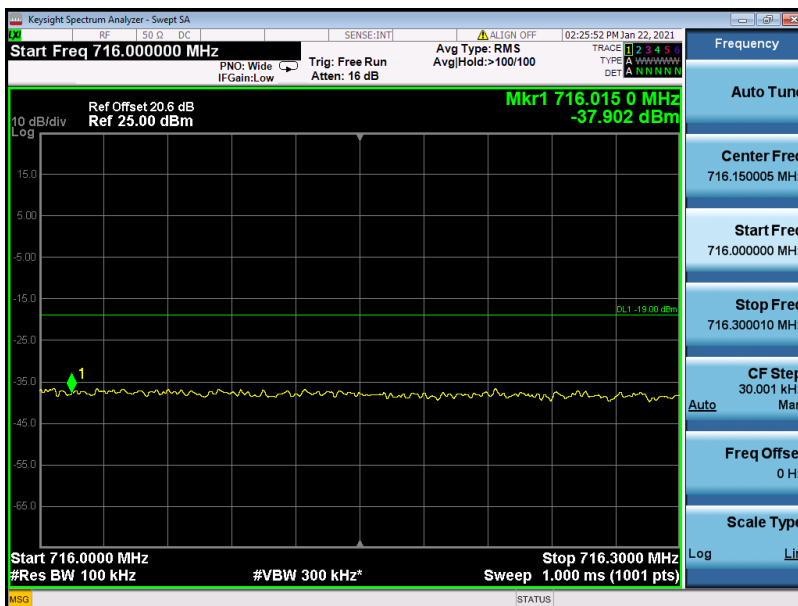
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### Lower 700MHz Band\_Upper band edge\_Pre-AGC



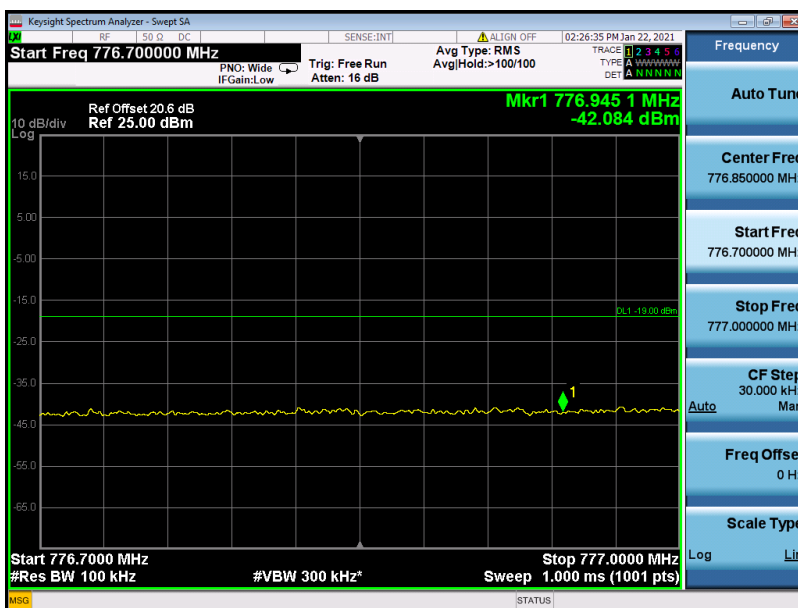
### Lower 700MHz Band\_Upper band edge\_AGC+10dB



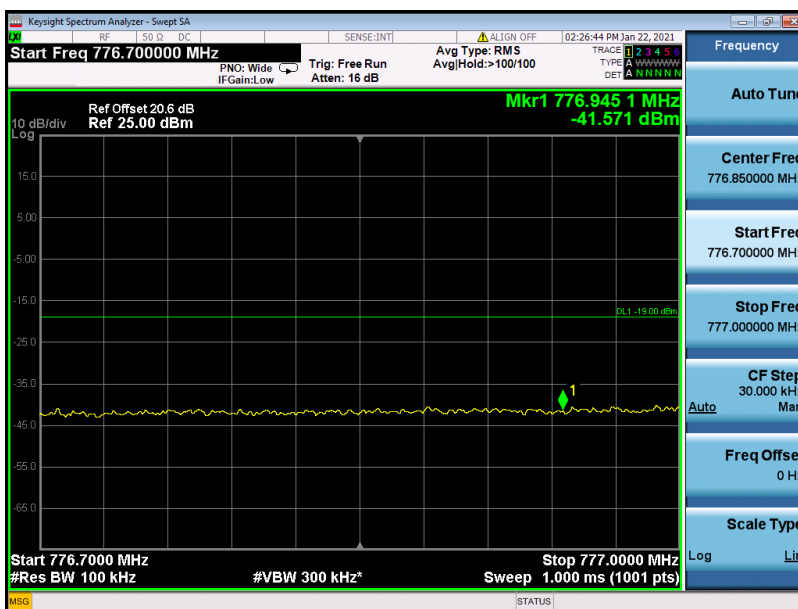
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### Upper 700MHz Band\_Lower band edge\_Pre-AGC



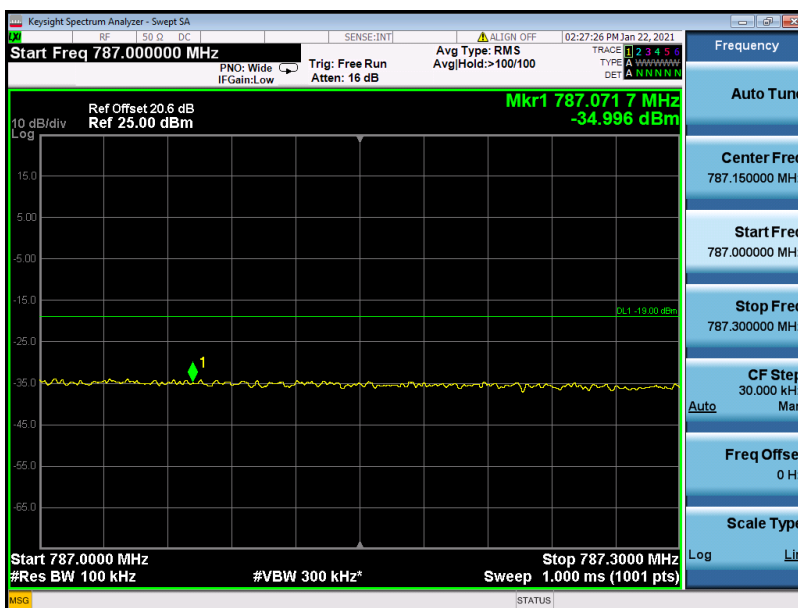
### Upper 700MHz Band\_Lower band edge\_AGC+10dB



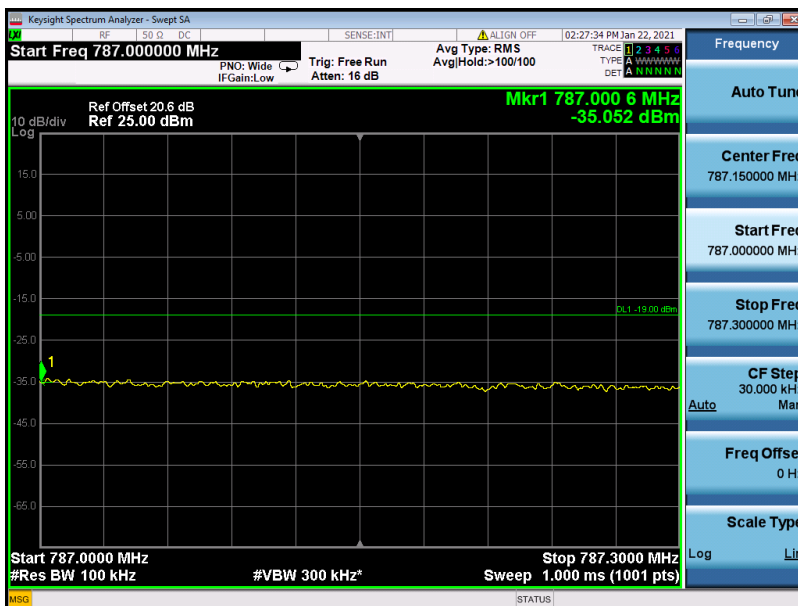
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### Upper 700MHz Band\_Upper band edge\_Pre-AGC



### Upper 700MHz Band\_Upper band edge\_AG+10dB

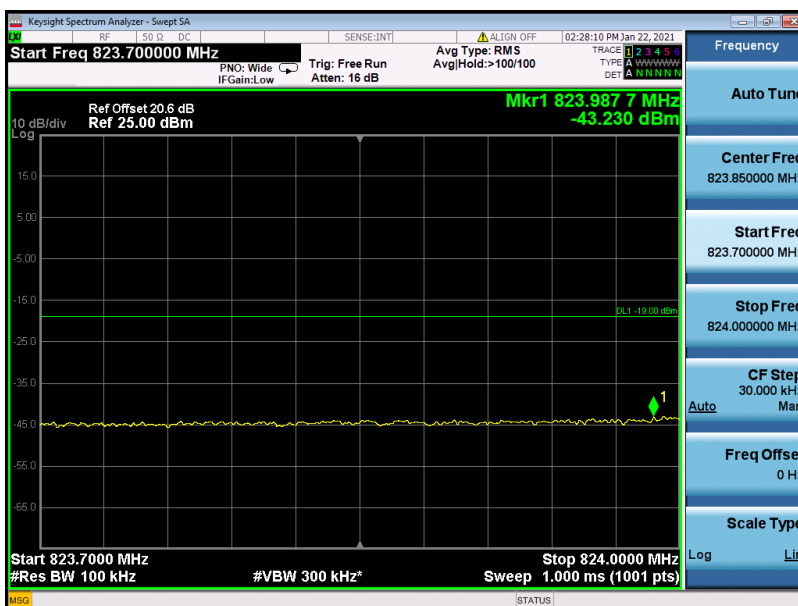


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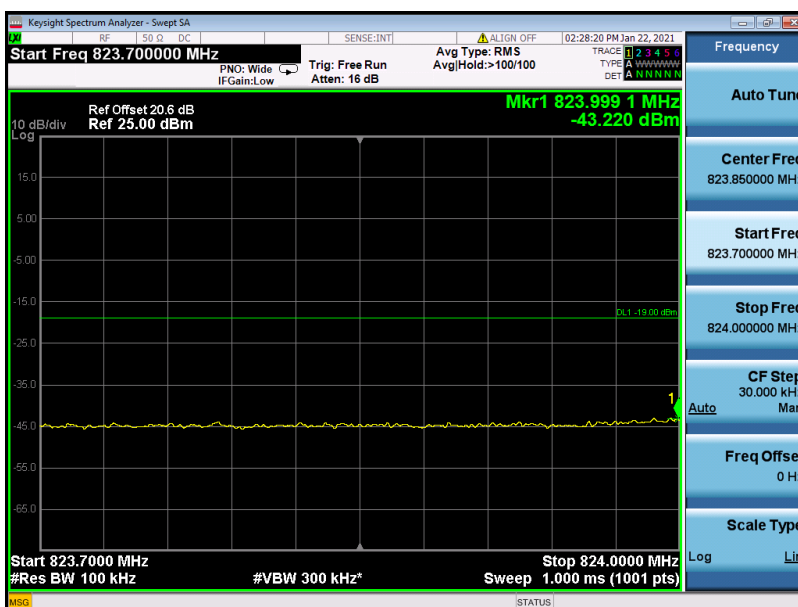
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### Cellular Band\_Lower band edge\_Pre-AGC



### Cellular Band\_Lower band edge\_AGC+10dB



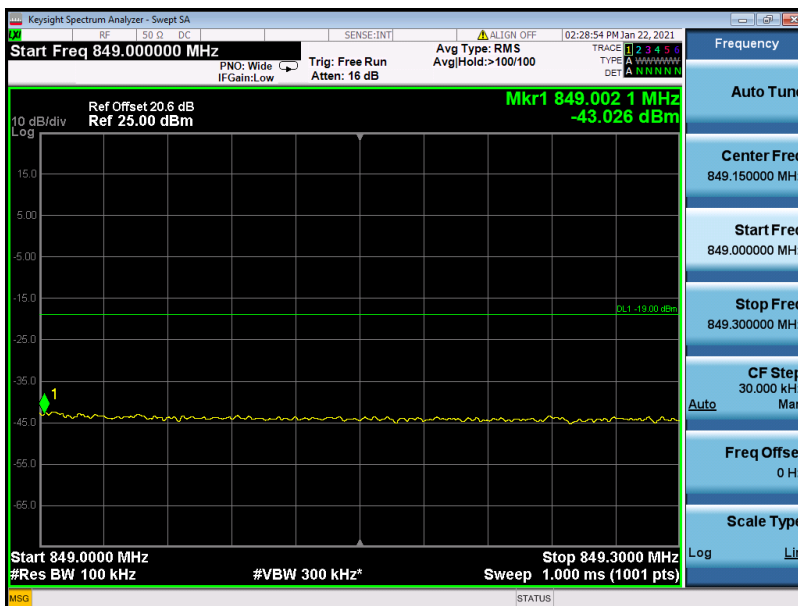
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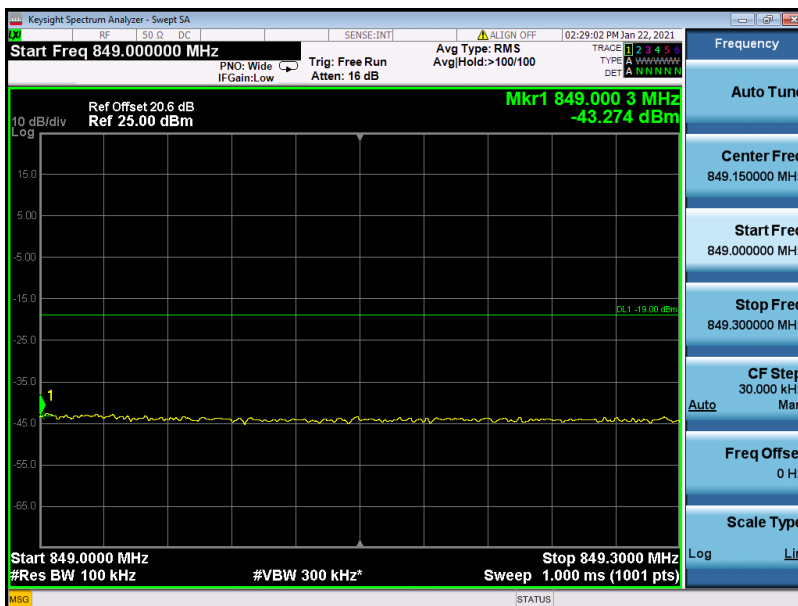
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### Cellular Band\_Upper band edge\_Pre-AGC



### Cellular Band\_Upper band edge\_AGC+10dB

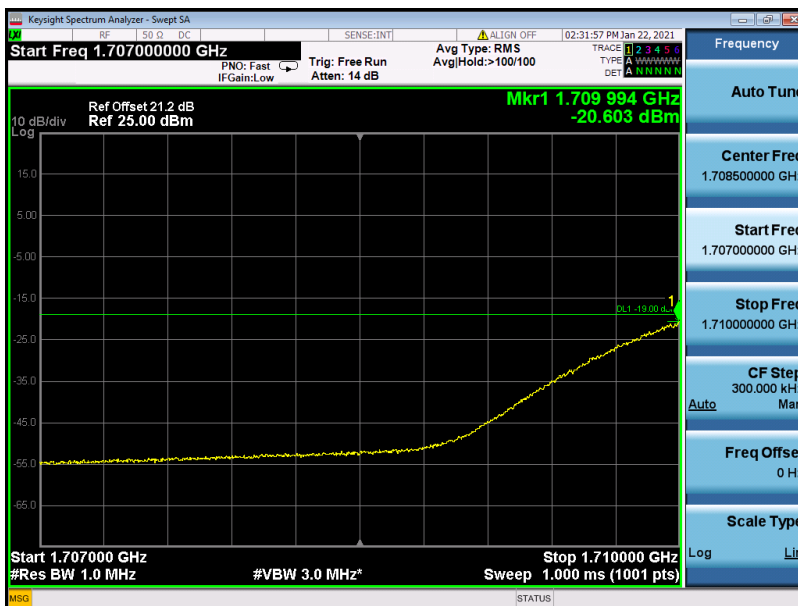


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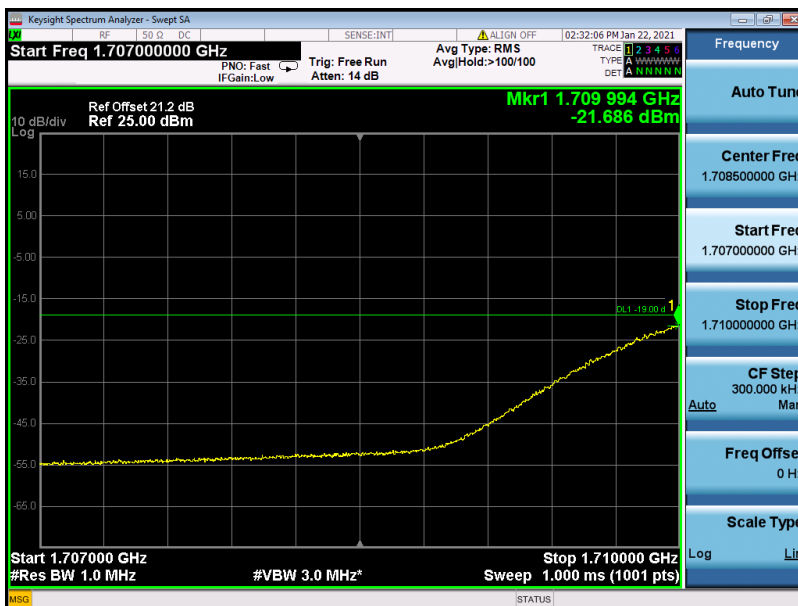
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### AWS-1 Band\_Lower band edge\_Pre-AGC



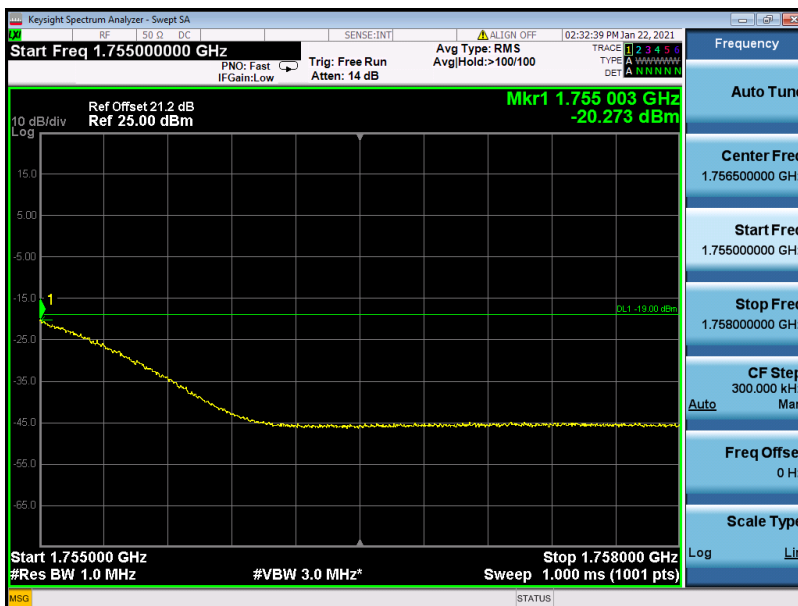
### AWS-1 Band\_Lower band edge\_AGC+10dB



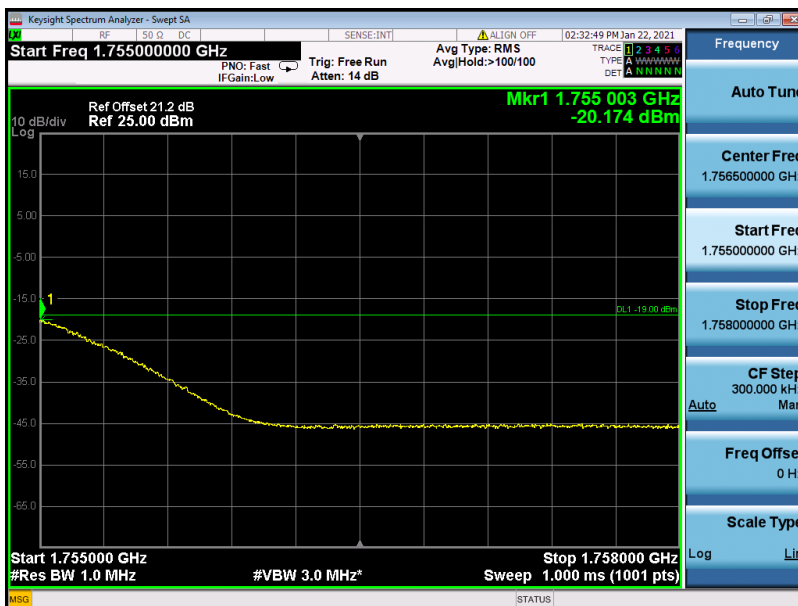
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### AWS-1 Band\_Upper band edge\_Pre-AGC



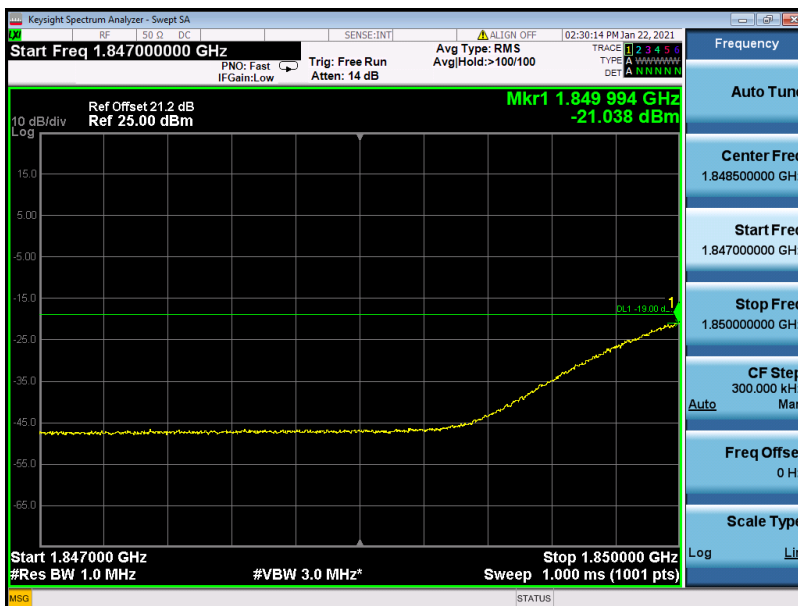
### AWS-1 Band\_Upper band edge\_AGC+10dB



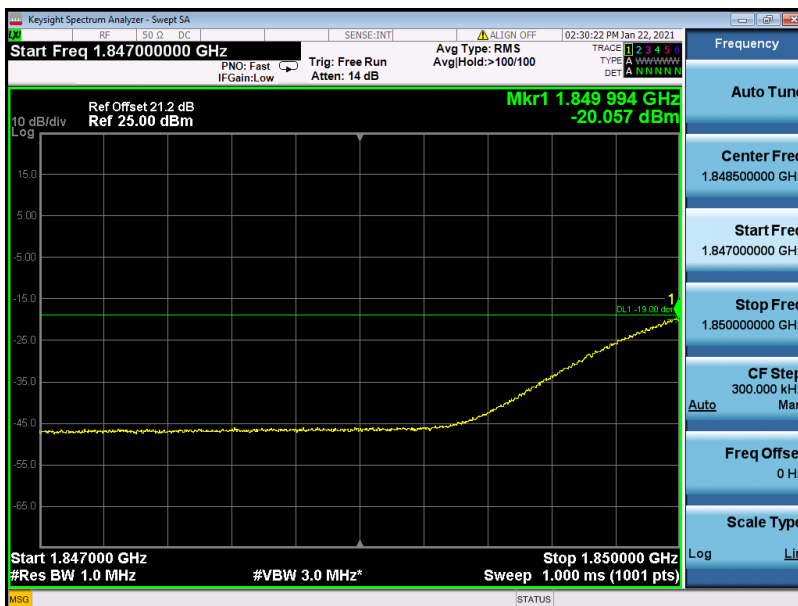
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### Broadband PCS Band\_Lower band edge\_Pre-AGC

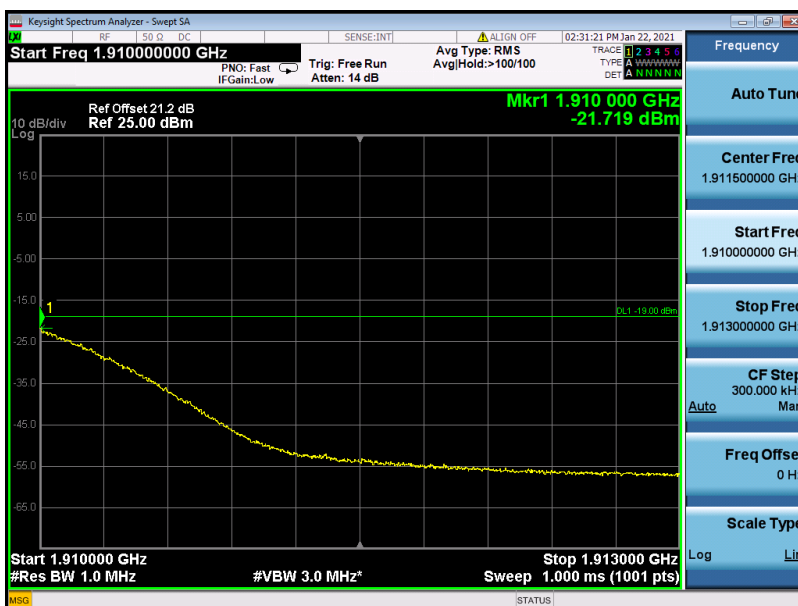


### Broadband PCS Band\_Lower band edge\_AG+10dB

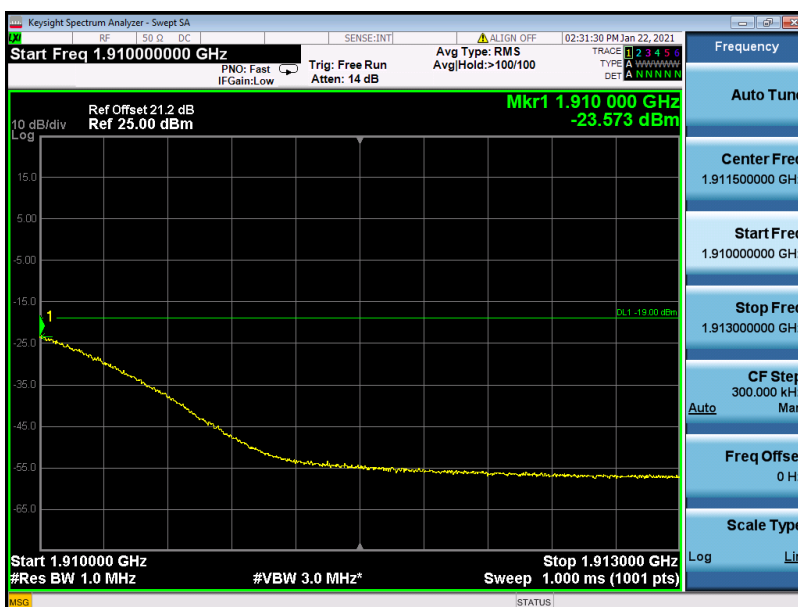




### Broadband PCS Band\_Upper band edge\_Pre-AGC



### Broadband PCS Band\_Upper band edge\_AGC+10dB

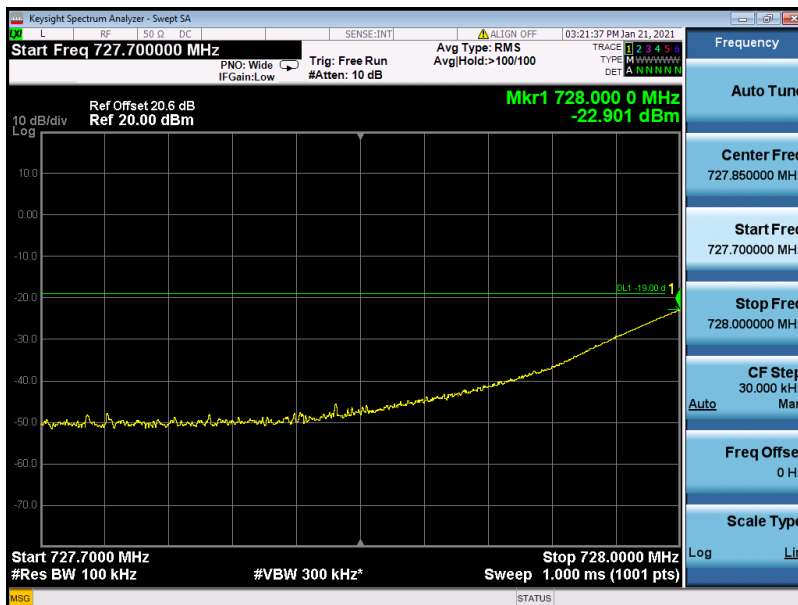


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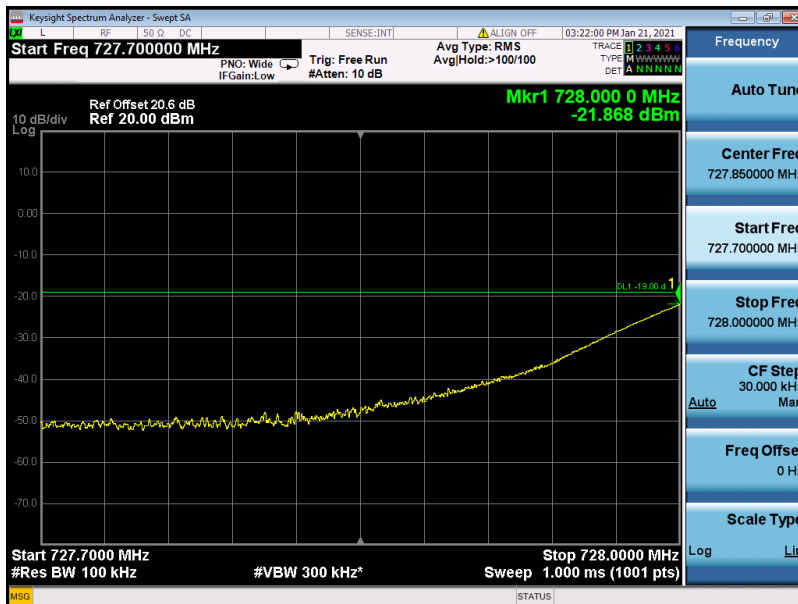
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### DOWNLINK\_GSM signal type

700MHz (Lower 700MHz + Upper 700MHz) Band\_Lower band edge\_Pre-AGC



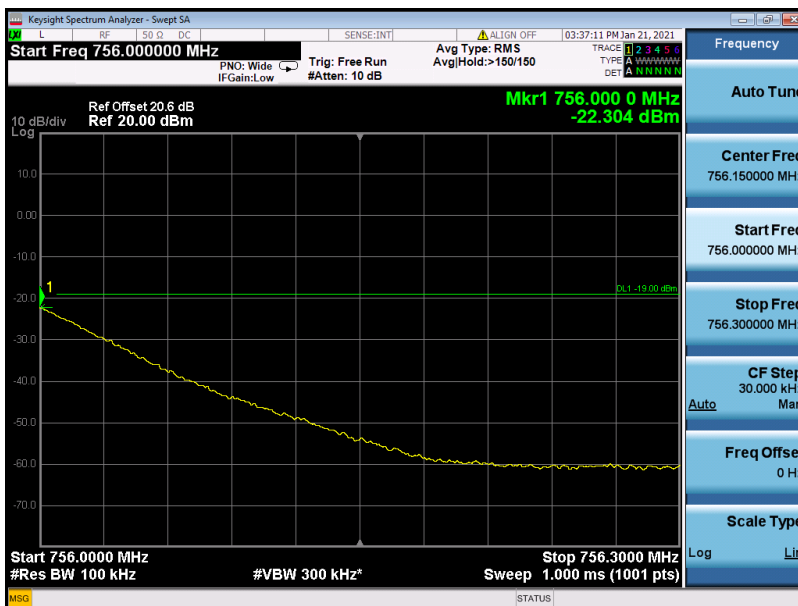
700MHz (Lower 700MHz + Upper 700MHz) Band\_Lower band edge\_AGC+10dB



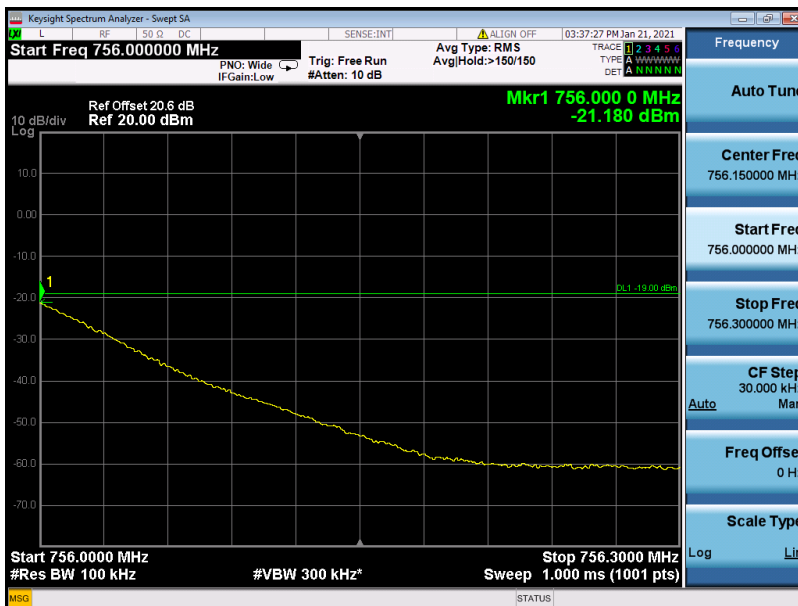
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### 700MHz (Lower 700MHz + Upper 700MHz) Band\_Upper band edge\_Pre-AGC



### 700MHz (Lower 700MHz + Upper 700MHz) Band\_Upper band edge\_AG+10dB

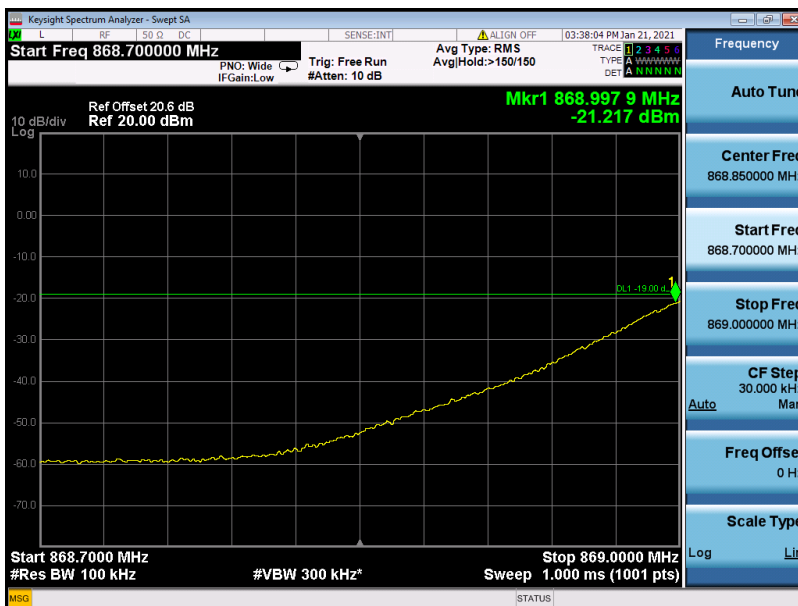


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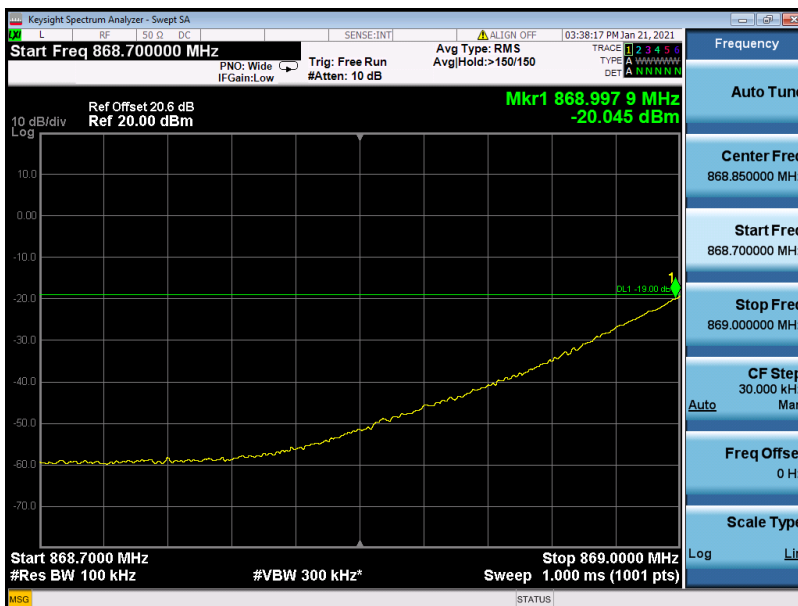
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### Cellular Band\_Lower band edge\_Pre-AGC



### Cellular Band\_Lower band edge\_AGC+10dB

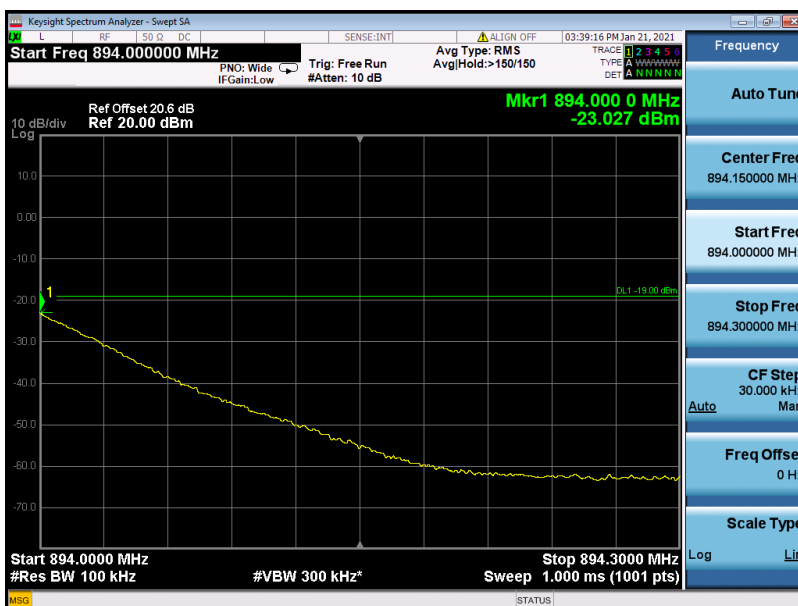


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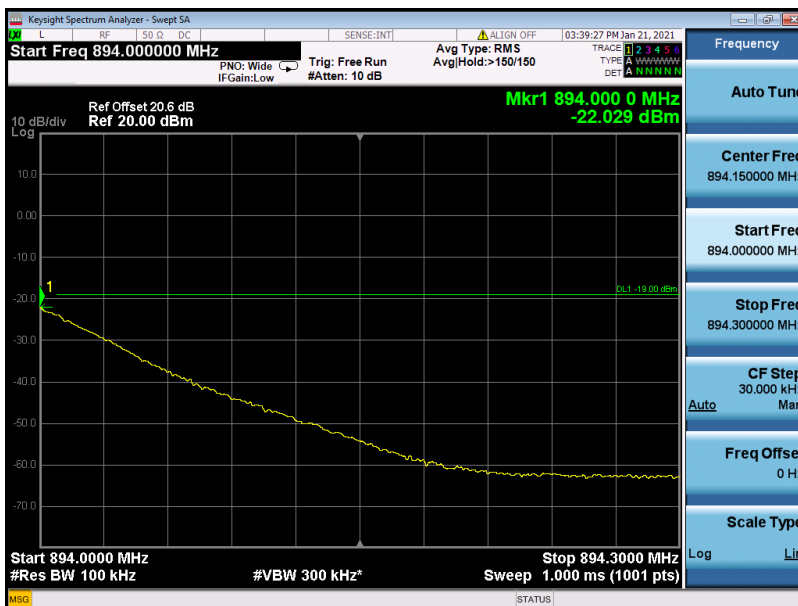
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### Cellular Band\_Upper band edge\_Pre-AGC



### Cellular Band\_Upper band edge\_AGC+10dB

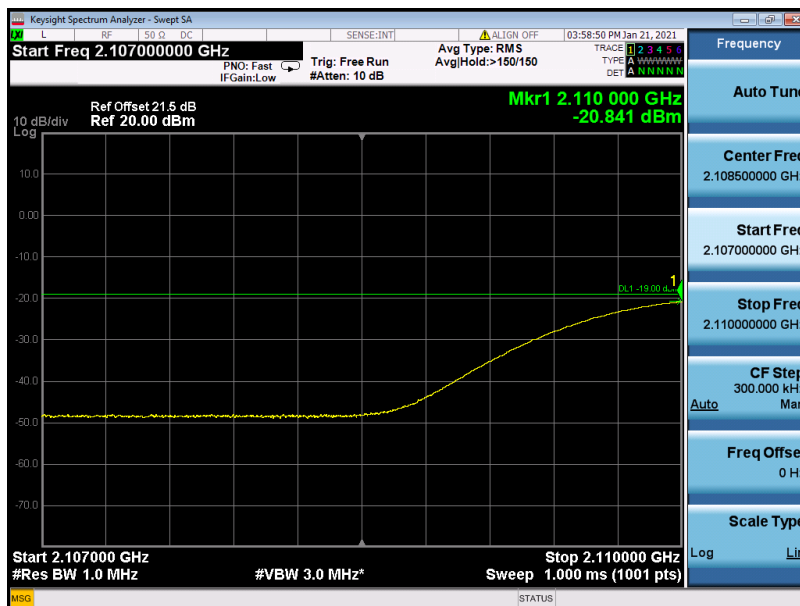


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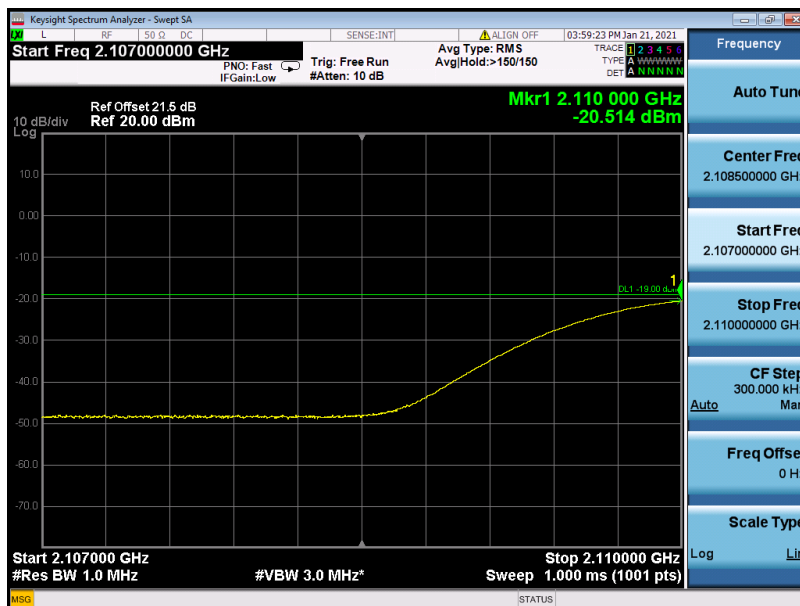
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## AWS-1 Band\_Lower band edge\_Pre-AGC



## AWS-1 Band\_Lower band edge\_AGC+10dB

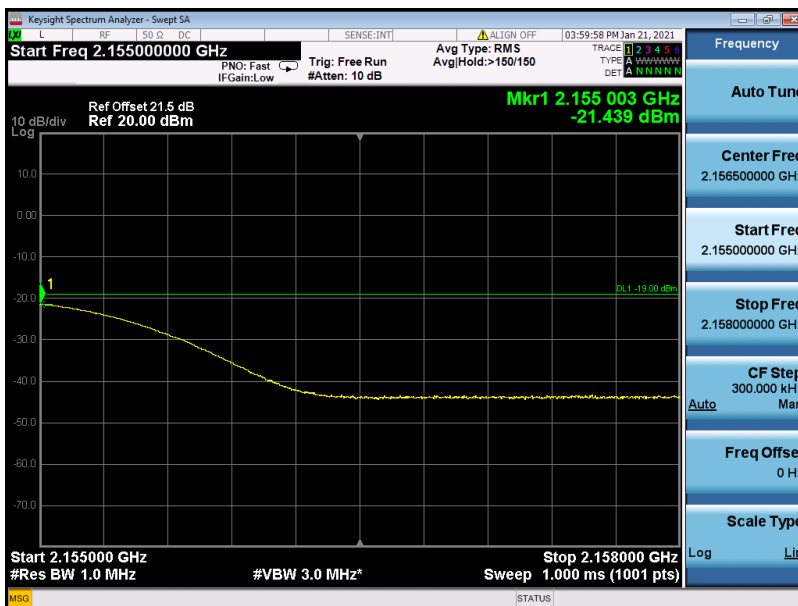


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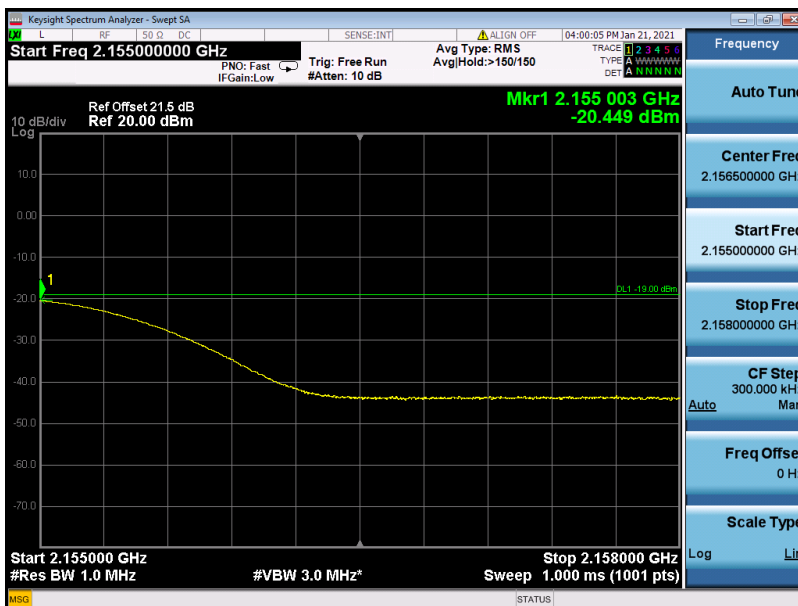
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### AWS-1 Band\_Upper band edge\_Pre-AGC



### AWS-1 Band\_Upper band edge\_AGC+10dB

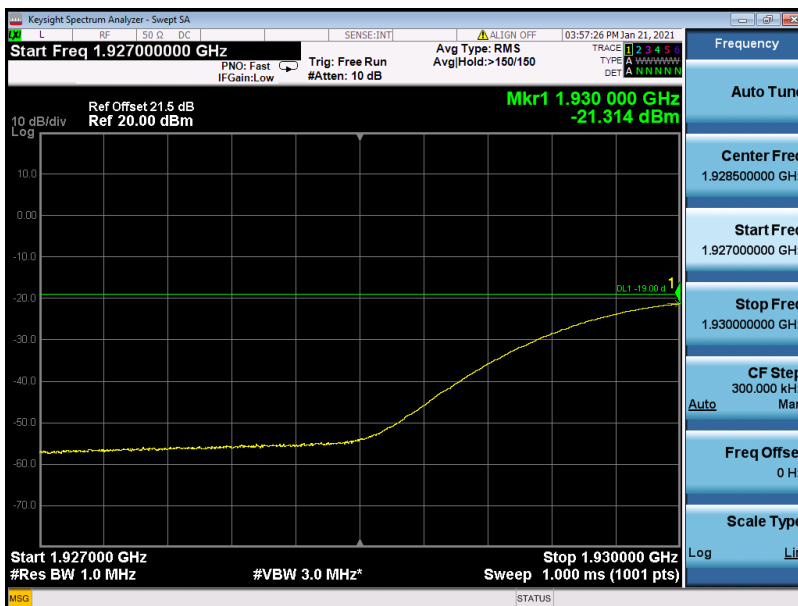


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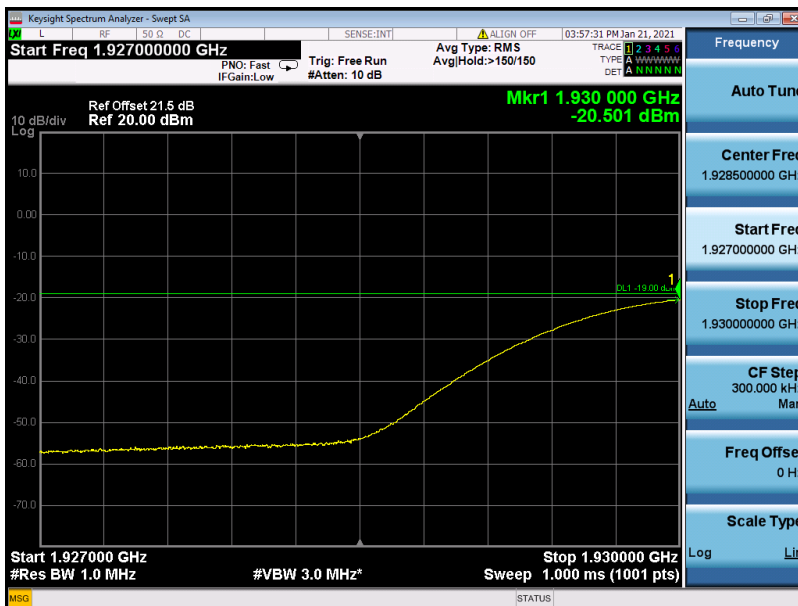
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### Broadband PCS Band\_Lower band edge\_Pre-AGC



### Broadband PCS Band\_Lower band edge\_AGC+10dB



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