



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

EMC-ARF-04 Rev 1.1

Page: 1 of 158

FCC ID: 2AYTR-LCPA

# Appendix -

## Test Data and Result for report

### GZCR230500048402



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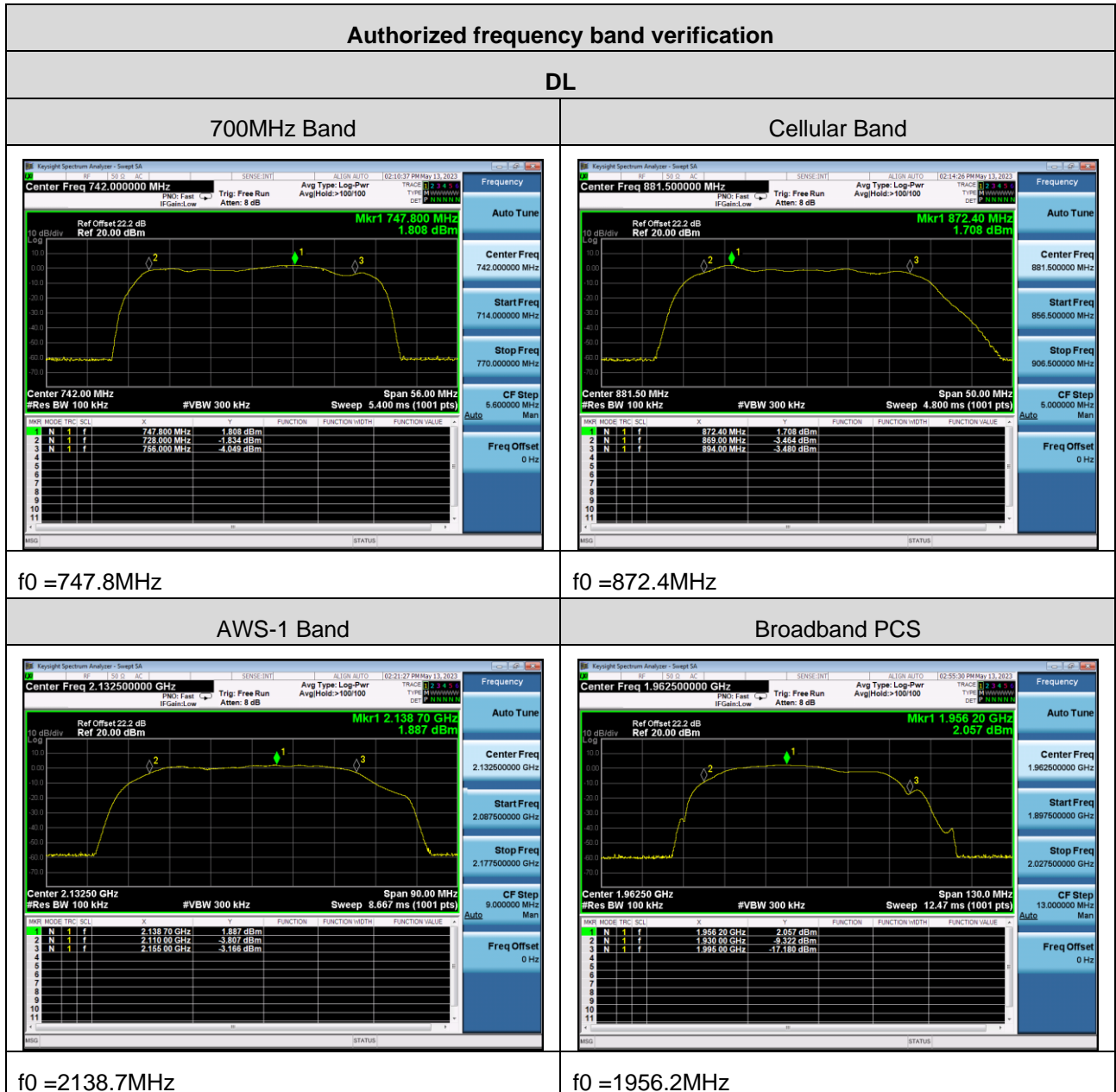
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### 1 Authorized frequency band verification



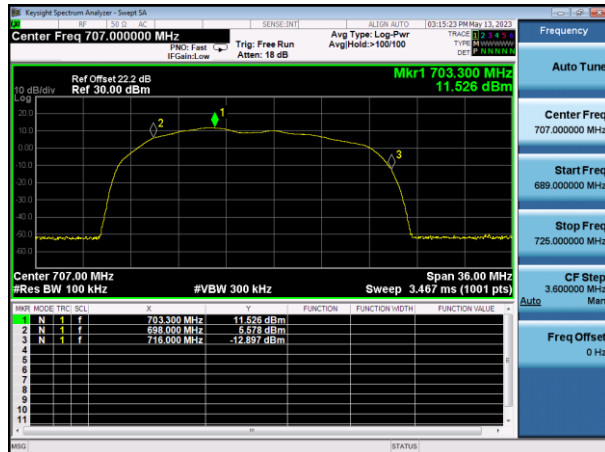
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### Authorized frequency band verification

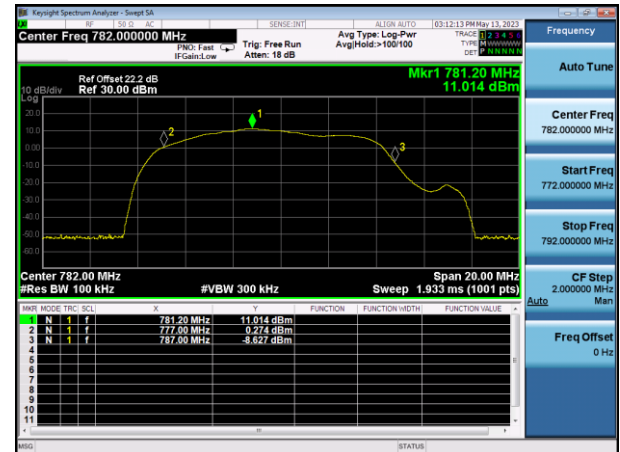
#### UL

##### Lower 700MHz Band



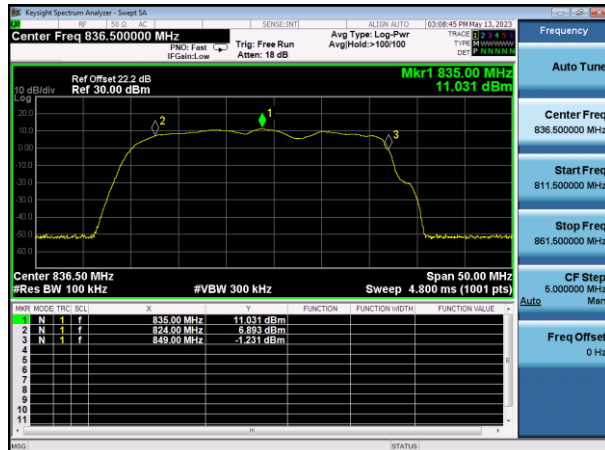
f0 = 703.3MHz

##### Upper 700MHz Band



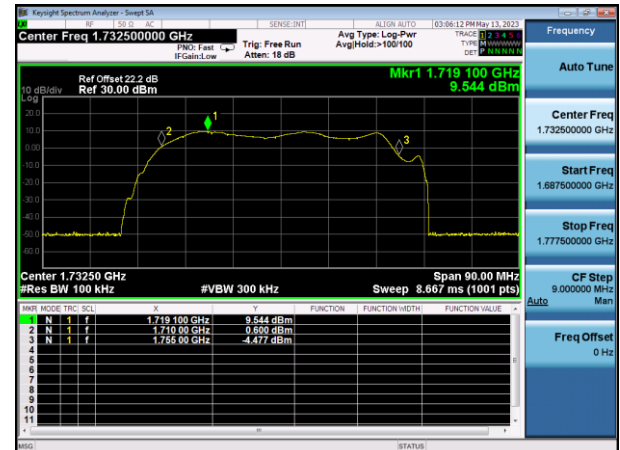
f0 = 781.2MHz

##### Cellular Band



f0 = 835.0MHz

##### AWS-1 Band



f0 = 1719.1MHz



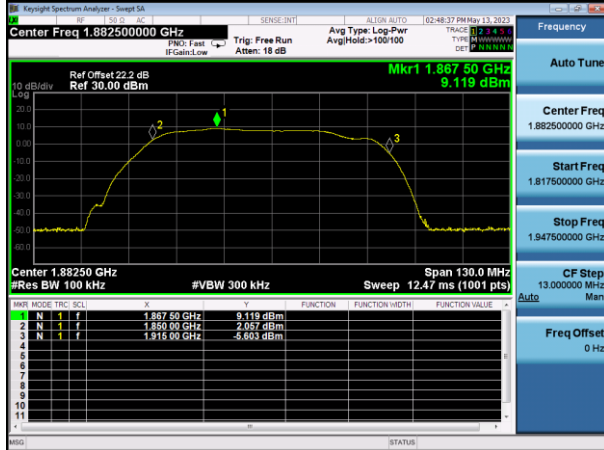
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Authorized frequency band verification	
UL	
Broad PCS Band	/
<div></div>	/
f0 =1867.5MHz	/
<p>Remark:</p> <p>The frequency point f0 with the highest power level fall in the CMRS band under test with reset the spectrum analyser span to 2 × the width 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.</p>	



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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
DL	700MHz	AWGN	Pre-AGC	-58.0	4.6	13.6	≤17	PASS
		GSM	Pre-AGC	-56.0	5.9	14.9		PASS
	Cellular	AWGN	Pre-AGC	-58.0	5.2	14.2		PASS
		GSM	Pre-AGC	-56.0	7.1	16.1		PASS
	AWS-1	AWGN	Pre-AGC	-65.0	5.3	14.3		PASS
		GSM	Pre-AGC	-63.0	6.6	15.6		PASS
	Broadband PCS	AWGN	Pre-AGC	-65.0	4.3	13.3		PASS
		GSM	Pre-AGC	-63.0	6.5	15.5		PASS
UL	Lower 700MHz	AWGN	Pre-AGC	-44.0	18.2	27.2	Lower:17 Upper:30	PASS
		GSM	Pre-AGC	-42.0	19.7	28.7		PASS
	Upper 700MHz	AWGN	Pre-AGC	-44.0	18.2	27.2		PASS
		GSM	Pre-AGC	-42.0	20.1	29.1		PASS
	Cellular	AWGN	Pre-AGC	-46.0	17.8	26.8		PASS
		GSM	Pre-AGC	-43.0	19.4	28.4		PASS
	AWS-1	AWGN	Pre-AGC	-53.0	17.3	26.3		PASS
		GSM	Pre-AGC	-51.0	19.8	28.8		PASS
	Broadband PCS	AWGN	Pre-AGC	-53.0	18.4	27.4		PASS
		GSM	Pre-AGC	-50.0	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 transmitter test input levels					
Path	Band	Signal Type	Input Power (dBm)	Conducted output power (dBm)	Verdict
DL	700MHz	AWGN	-29.0	4.1	PASS
		GSM	-28.0	5.3	PASS
	Cellular	AWGN	-29.0	4.8	PASS
		GSM	-26.0	6.6	PASS
	AWS-1	AWGN	-37.0	5.1	PASS
		GSM	-32.0	6.1	PASS
	Broadband PCS	AWGN	-34.0	4.0	PASS
		GSM	-35.0	5.9	PASS
UL	Lower 700MHz	AWGN	-16.0	17.8	PASS
		GSM	-13.0	19.2	PASS
	Upper 700MHz	AWGN	-15.0	17.7	PASS
		GSM	-14.0	19.9	PASS
	Cellular	AWGN	-16.0	17.1	PASS
		GSM	-14.0	19.0	PASS
	AWS-1	AWGN	-23.0	16.6	PASS
		GSM	-22.0	19.0	PASS
	Broadband PCS	AWGN	-24.0	17.9	PASS
		GSM	-21.0	19.6	PASS

## Remark:

1. For downlink, the EUT went into shutdown mode at the maximum input level (-20dBm) indicated in 5.5 of KDB 935210 D03. The test data presented on the table is at an input level 1dB less than that found to cause the shutdown, where the input power is much greater than 10dB above AGC.
2. For uplink, the EUT went into shutdown mode at the maximum input level (0dBm) indicated in 5.5 of KDB 935210 D03. The test data presented on the table is at an 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	-58.0	4.6	62.6	≤63.49	PASS
		GSM	Pre-AGC	-56.0	5.9	61.9		PASS
	Cellular	AWGN	Pre-AGC	-58.0	5.2	63.2	≤64.95	PASS
		GSM	Pre-AGC	-56.0	7.1	63.1		PASS
	AWS-1	AWGN	Pre-AGC	-65.0	5.3	70.3	≤71.27	PASS
		GSM	Pre-AGC	-63.0	6.6	69.6		PASS
	Broadband PCS	AWGN	Pre-AGC	-65.0	4.3	69.3	≤71.99	PASS
		GSM	Pre-AGC	-63.0	6.5	69.5		PASS
UL	Lower 700MHz	AWGN	Pre-AGC	-44.0	18.2	62.2	≤63.49	PASS
		GSM	Pre-AGC	-42.0	19.7	61.7		PASS
	Upper 700MHz	AWGN	Pre-AGC	-44.0	18.2	62.2	≤64.36	PASS
		GSM	Pre-AGC	-42.0	20.1	62.1		PASS
	Cellular	AWGN	Pre-AGC	-46.0	17.8	63.8	≤64.95	PASS
		GSM	Pre-AGC	-43.0	19.4	62.4		PASS
	AWS-1	AWGN	Pre-AGC	-53.0	17.3	70.3	≤71.27	PASS
		GSM	Pre-AGC	-51.0	19.8	70.8		PASS
	Broadband PCS	AWGN	Pre-AGC	-53.0	18.4	71.4	≤71.99	PASS
		GSM	Pre-AGC	-50.0	20.1	70.1		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	62.2	62.6	0.4	≤9	PASS
	GSM	61.7	61.9	0.2		PASS
Upper 700MHz	AWGN	64.2	62.6	1.6		PASS
	GSM	64.1	61.9	2.2		PASS
Cellular	AWGN	63.8	63.2	0.6		PASS
	GSM	62.4	63.1	0.7		PASS
AWS-1	AWGN	70.3	70.3	0		PASS
	GSM	70.8	69.6	1.2		PASS
Broadband PCS	AWGN	71.4	69.3	2.1		PASS
	GSM	70.1	69.5	0.6		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	-30.74	≤-19	PASS
			10dB above AGC	-30.29		PASS
	Cellular	two CW signals	Pre-AGC	-33.58	≤-19	PASS
			10dB above AGC	-33.53		PASS
	AWS-1	two CW signals	Pre-AGC	-31.51	≤-19	PASS
			10dB above AGC	-37.12		PASS
	Broadband PCS	two CW signals	Pre-AGC	-37.26	≤-19	PASS
			10dB above AGC	-37.05		PASS
UL	Lower 700MHz	two CW signals	Pre-AGC	-20.75	≤-19	PASS
			10dB above AGC	-22.09		PASS
	Upper 700MHz	two CW signals	Pre-AGC	-28.91	≤-19	PASS
			10dB above AGC	-28.96		PASS
	Cellular	two CW signals	Pre-AGC	-30.67	≤-19	PASS
			10dB above AGC	-30.68		PASS
	AWS-1	two CW signals	Pre-AGC	-26.35	≤-19	PASS
			10dB above AGC	-26.08		PASS
	Broadband PCS	two CW signals	Pre-AGC	-27.00	≤-19	PASS
			10dB above AGC	-27.50		PASS



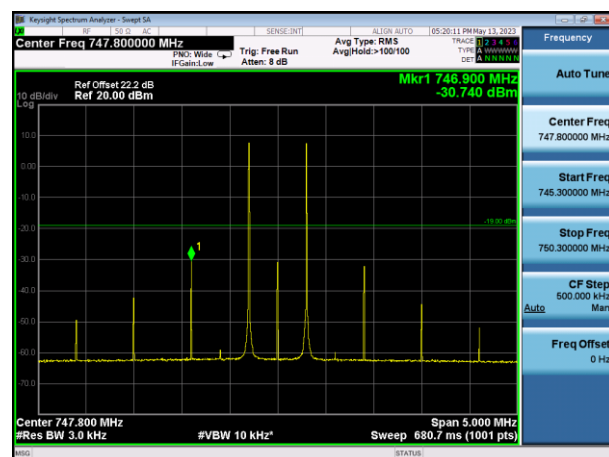
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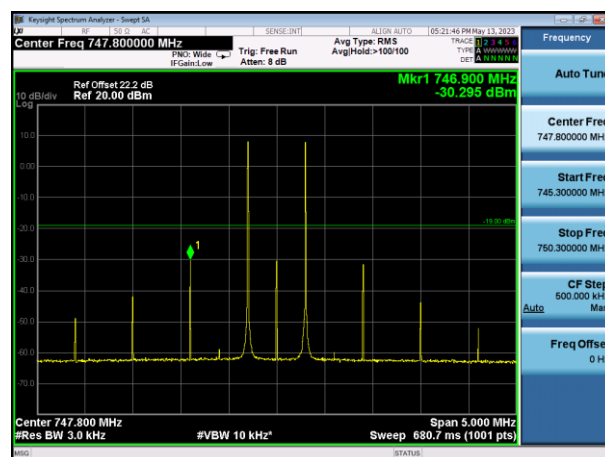
### Intermodulation product

#### DL

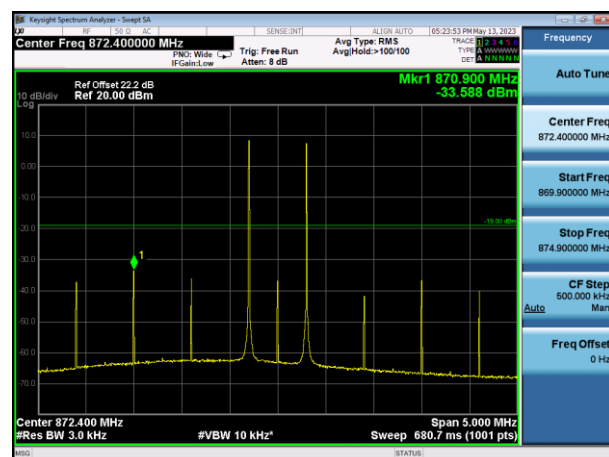
##### 700MHz Band\_Pre-AGC



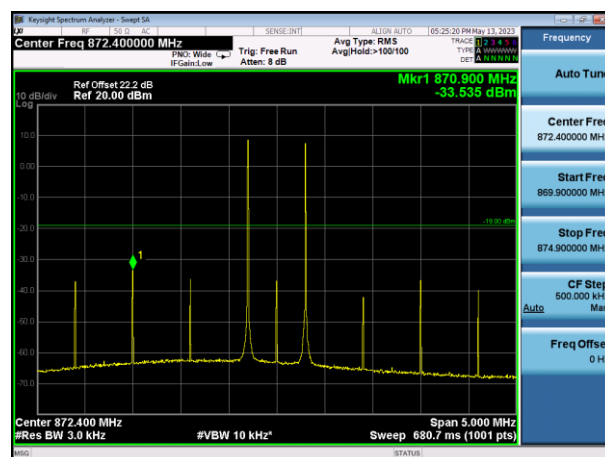
##### 700MHz Band\_10dB above AGC



##### Cellular Band\_Pre-AGC



##### Cellular Band\_10dB above AGC



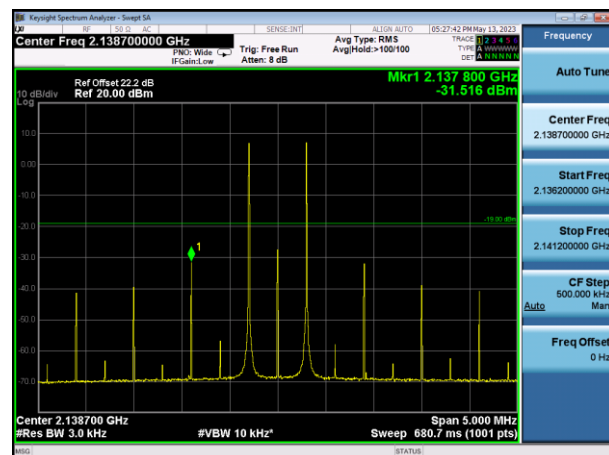
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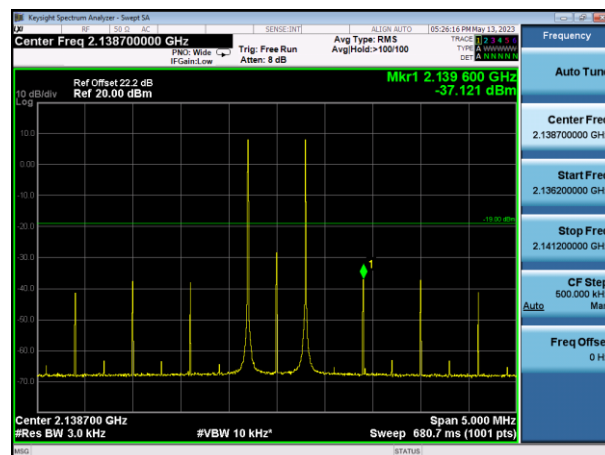
### Intermodulation product

#### DL

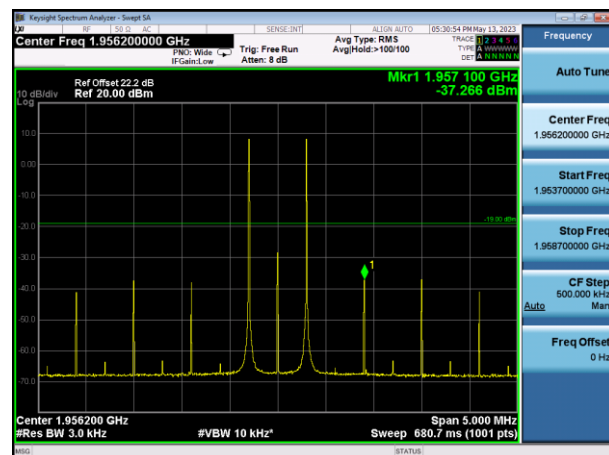
##### AWS-1\_Pre-AGC



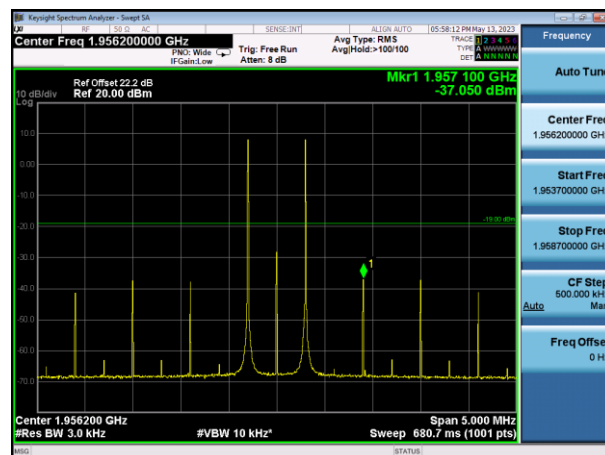
##### AWS-1\_10dB above AGC



##### Broadband PCS\_Pre-AGC



##### Broadband PCS\_10dB above AGC



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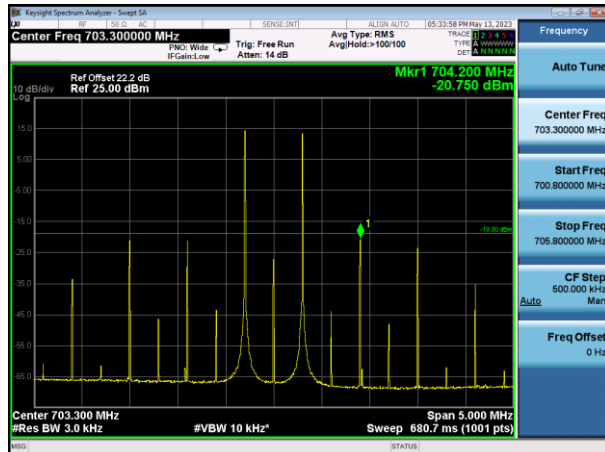
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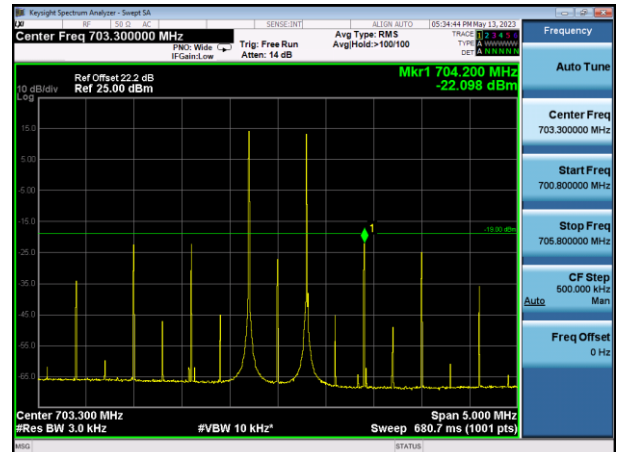
### Intermodulation product

#### UL

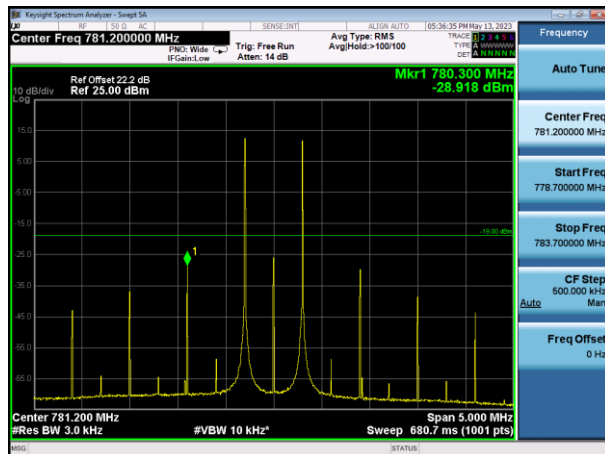
##### Lower 700MHz Band\_Pre-AGC



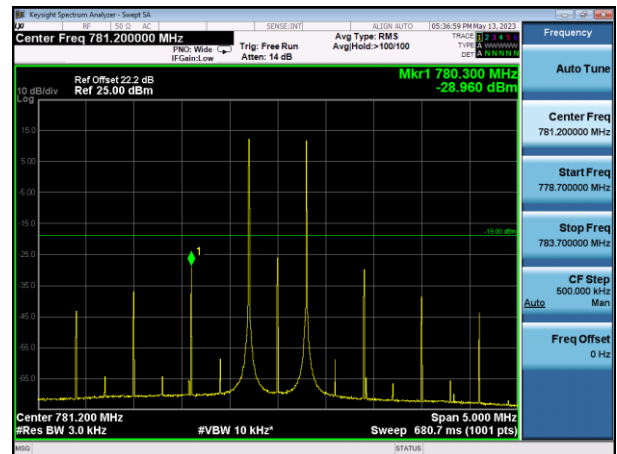
##### Lower 700MHz Band\_10dB above AGC



##### Upper 700MHz Band\_Pre-AGC



##### Upper 700MHz Band\_10dB above AGC



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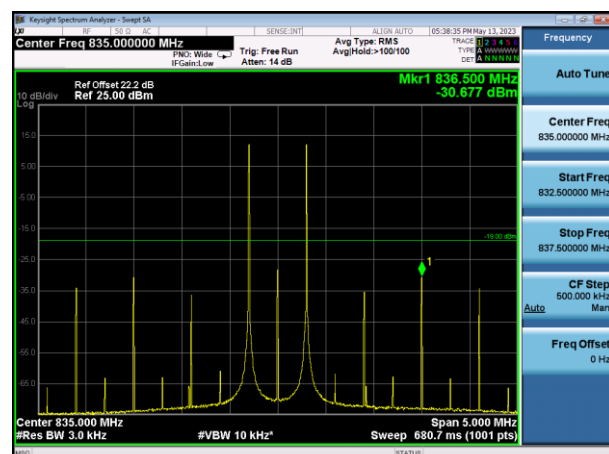
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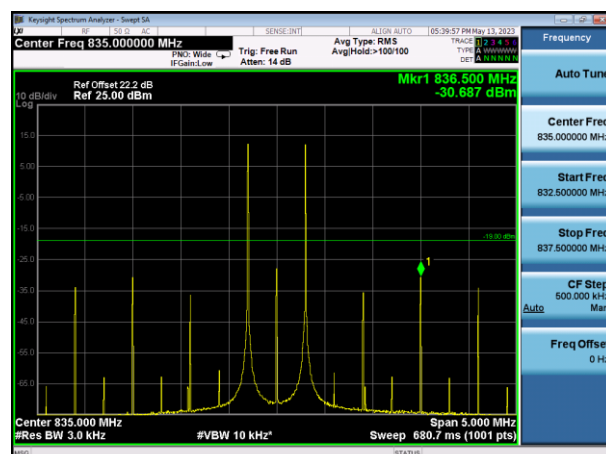
### Intermodulation product

#### UL

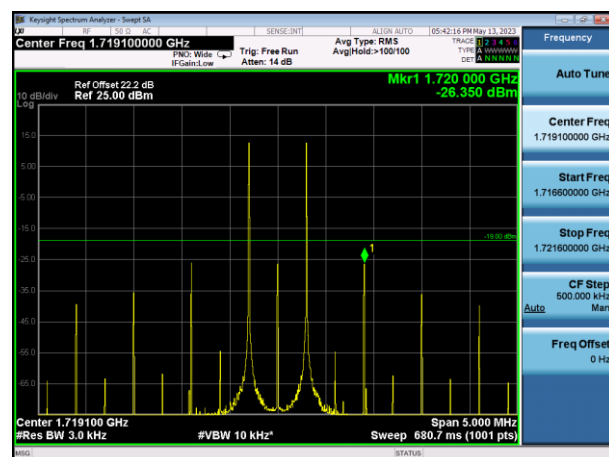
##### Cellular Band\_Pre-AGC



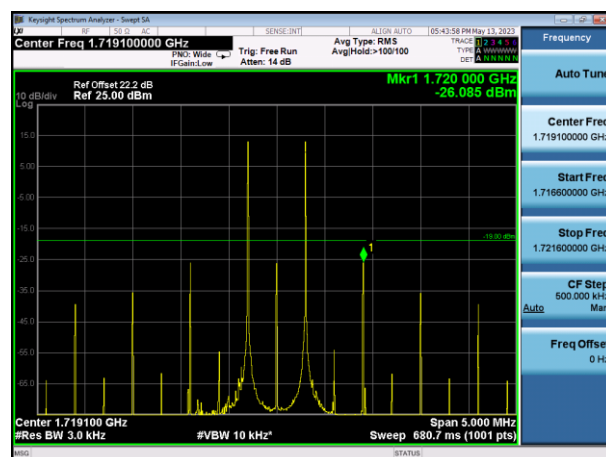
##### Cellular Band\_10dB above AGC



##### AWS-1 Band\_Pre-AGC



##### AWS-1 Band\_10dB above AGC



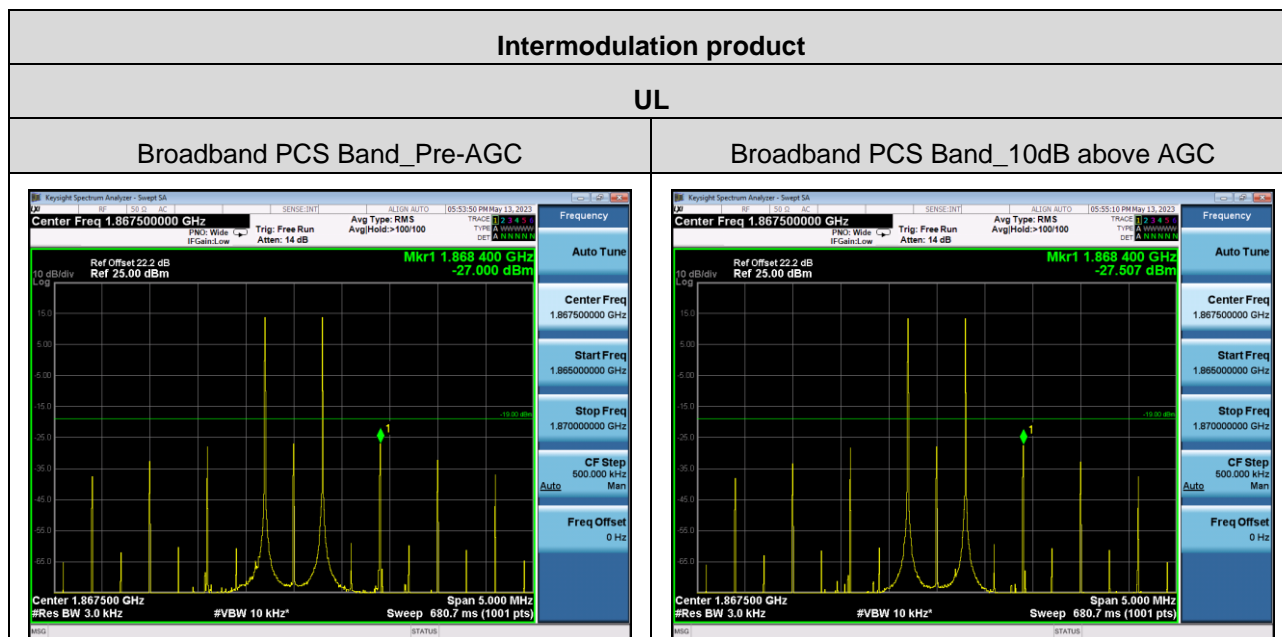
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## 5 Out-of-band emissions

Out-of-band emissions							
Path	Band	Input Signal			Worst Test Level (dBm)	Limit (dBm)	Verdict
DL	700MHz	GSM	Lower Edge	Pre-AGC	-23.74	≤-19	PASS
				10dB above AGC	-22.82		PASS
			Upper Edge	Pre-AGC	-23.17		PASS
				10dB above AGC	-23.34		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-39.48	≤-19	PASS
				10dB above AGC	-39.46		PASS
			Upper Edge	Pre-AGC	-46.37		PASS
				10dB above AGC	-45.77		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-53.23	≤-19	PASS
				10dB above AGC	-53.26		PASS
			Upper Edge	Pre-AGC	-47.23		PASS
				10dB above AGC	-47.06		PASS
	Cellular	GSM	Lower Edge	Pre-AGC	-24.44	≤-19	PASS
				10dB above AGC	-23.84		PASS
			Upper Edge	Pre-AGC	-22.63		PASS
				10dB above AGC	-23.54		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-43.55	≤-19	PASS
				10dB above AGC	-44.51		PASS
			Upper Edge	Pre-AGC	-34.27		PASS
				10dB above AGC	-35.21		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-47.85	≤-19	PASS
				10dB above AGC	-48.34		PASS
			Upper Edge	Pre-AGC	-39.51		PASS
				10dB above AGC	-39.09		PASS



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Out-of-band emissions						
Path	Band	Input Signal		Worst Test Level (dBm)	Limit (dBm)	Verdict
DL	AWS-1	GSM	Lower Edge	Pre-AGC	-31.54	PASS
				10dB above AGC	-31.90	PASS
			Upper Edge	Pre-AGC	-31.94	PASS
				10dB above AGC	-31.56	PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-21.87	PASS
				10dB above AGC	-21.53	PASS
			Upper Edge	Pre-AGC	-24.56	PASS
				10dB above AGC	-24.90	PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-24.03	PASS
				10dB above AGC	-23.84	PASS
			Upper Edge	Pre-AGC	-25.07	PASS
				10dB above AGC	-24.82	PASS
	Broadband PCS	GSM	Lower Edge	Pre-AGC	-34.11	PASS
				10dB above AGC	-33.81	PASS
			Upper Edge	Pre-AGC	-35.19	PASS
				10dB above AGC	-35.32	PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-24.83	PASS
				10dB above AGC	-24.00	PASS
			Upper Edge	Pre-AGC	-21.84	PASS
				10dB above AGC	-22.46	PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-25.45	PASS
				10dB above AGC	-24.64	PASS
			Upper Edge	Pre-AGC	-23.05	PASS
				10dB above AGC	-22.50	PASS



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Out-of-band emissions						
Path	Band	Input Signal		Worst Test Level (dBm)	Limit (dBm)	Verdict
UL	Lower 700MHz	GSM	Lower Edge	Pre-AGC	-23.17	PASS
				10dB above AGC	-22.65	PASS
			Upper Edge	Pre-AGC	-22.20	PASS
				10dB above AGC	-21.87	PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-27.33	PASS
				10dB above AGC	-26.96	PASS
			Upper Edge	Pre-AGC	-28.11	PASS
				10dB above AGC	-27.73	PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-26.98	PASS
				10dB above AGC	-26.67	PASS
			Upper Edge	Pre-AGC	-28.01	PASS
				10dB above AGC	-27.47	PASS
	Upper 700MHz	GSM	Lower Edge	Pre-AGC	-39.65	PASS
				10dB above AGC	-39.74	PASS
			Upper Edge	Pre-AGC	-24.00	PASS
				10dB above AGC	-24.44	PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-33.50	PASS
				10dB above AGC	-33.40	PASS
			Upper Edge	Pre-AGC	-37.72	PASS
				10dB above AGC	-38.10	PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-33.68	PASS
				10dB above AGC	-34.14	PASS
			Upper Edge	Pre-AGC	-37.27	PASS
				10dB above AGC	-37.40	PASS



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Out-of-band emissions							
Path	Band	Input Signal			Worst Test Level (dBm)	Limit (dBm)	Verdict
UL	Cellular	GSM	Lower Edge	Pre-AGC	-45.79	≤-19	PASS
				10dB above AGC	-46.00		PASS
			Upper Edge	Pre-AGC	-36.89		PASS
				10dB above AGC	-35.49		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-46.46	≤-19	PASS
				10dB above AGC	-46.17		PASS
			Upper Edge	Pre-AGC	-34.82		PASS
				10dB above AGC	-34.76		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-45.86	≤-19	PASS
				10dB above AGC	-46.41		PASS
			Upper Edge	Pre-AGC	-23.87		PASS
				10dB above AGC	-24.02		PASS
	AWS-1	GSM	Lower Edge	Pre-AGC	-32.76	≤-29 <sup>1</sup>	PASS
				10dB above AGC	-33.29		PASS
			Upper Edge	Pre-AGC	-32.19		PASS
				10dB above AGC	-32.48		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-23.09	≤-19	PASS
				10dB above AGC	-22.70		PASS
			Upper Edge	Pre-AGC	-23.00		PASS
				10dB above AGC	-22.46		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-24.99	≤-19	PASS
				10dB above AGC	-24.33		PASS
			Upper Edge	Pre-AGC	-23.35		PASS
				10dB above AGC	-23.99		PASS



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Out-of-band emissions						
Path	Band	Input Signal		Worst Test Level (dBm)	Limit (dBm)	Verdict
UL	Broadband PCS	GSM	Lower Edge	Pre-AGC	-34.00	PASS
				10dB above AGC	-33.63	PASS
			Upper Edge	Pre-AGC	-34.72	PASS
				10dB above AGC	-34.59	PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-25.86	PASS
				10dB above AGC	-26.14	PASS
			Upper Edge	Pre-AGC	-24.78	PASS
				10dB above AGC	-25.06	PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-29.94	PASS
				10dB above AGC	-29.65	PASS
			Upper Edge	Pre-AGC	-28.43	PASS
				10dB above AGC	-28.52	PASS

**Remark:**

<sup>1</sup> To improve measurement accuracy, sensitivity and efficiency, the measured RBW (= 100kHz) is different from the reference RBW (= 1MHz, stated in KDB 935210), the measured value shall be increased by  $10\lg(1000/100) = 10\text{dB}$ . The limit was calculated to show -29dBm to determine the test result conveniently.

<sup>2</sup> 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 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 =  $\{P - [76 + 10 \log(P)]\} - 6\text{dB} = -52\text{dBm}$



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**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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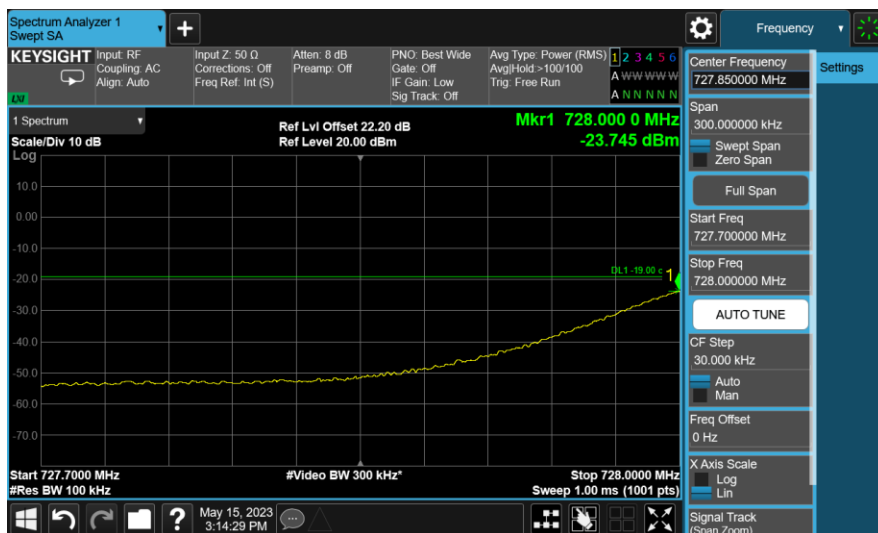
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### Out-of-band emissions

#### DL\_700MHz Band

#### GSM signal input\_Lower band edge\_Pre-AGC



#### GSM signal input\_Lower band edge\_10dB above AGC



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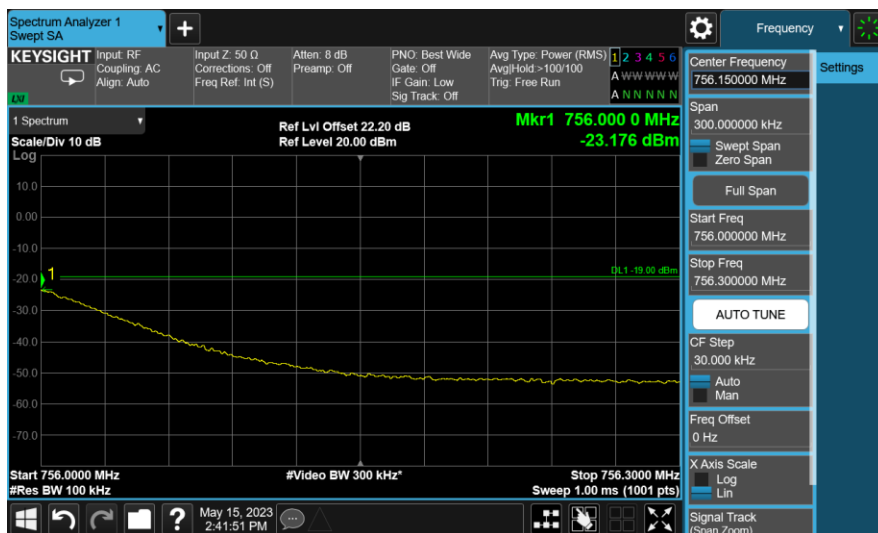
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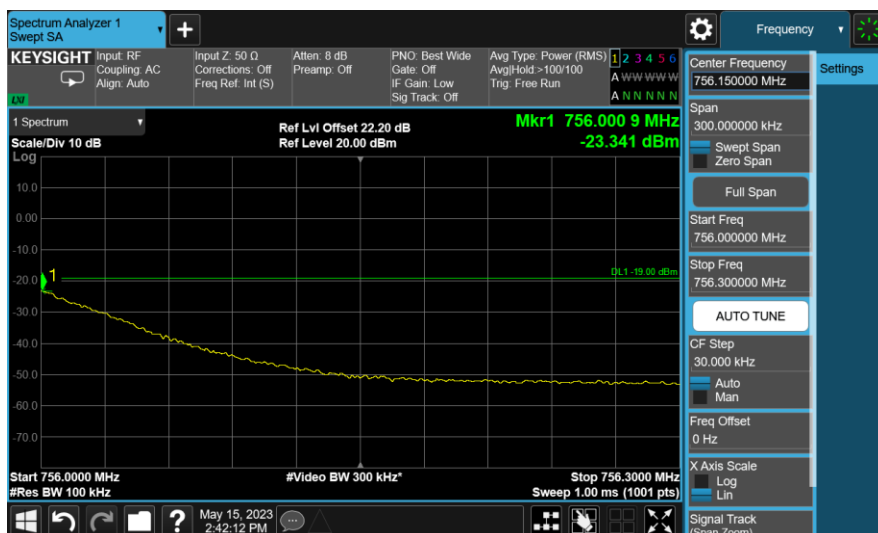
### Out-of-band emissions

#### DL\_700MHz Band

#### GSM signal input\_Upper band edge\_Pre-AGC



#### GSM signal input\_Upper band edge\_10dB above AGC



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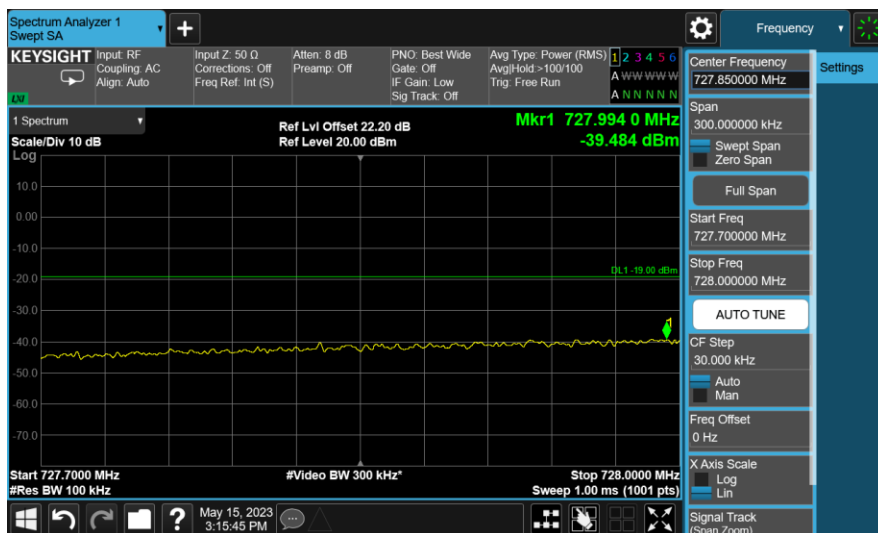
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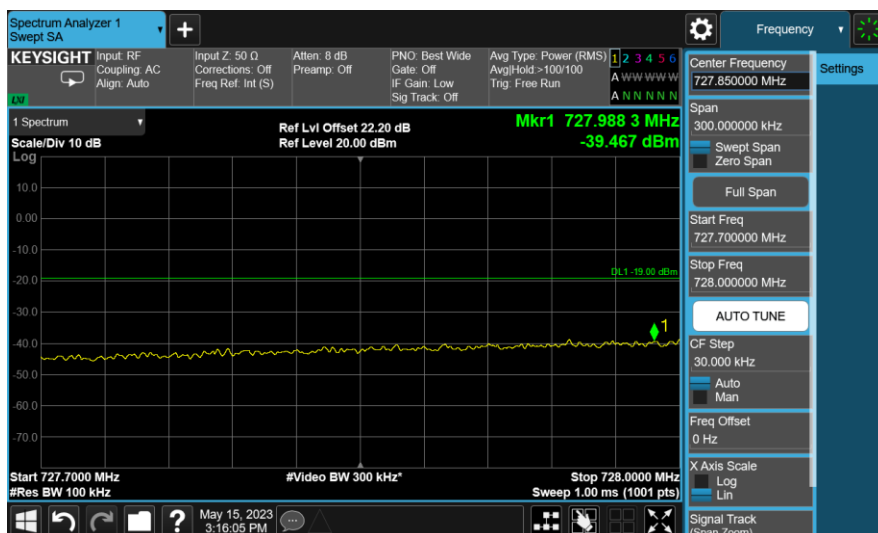
### Out-of-band emissions

#### DL\_700MHz Band

#### 1.25MHz AWGN signal input\_Lower band edge\_Pre-AGC



#### 1.25MHz AWGN signal input\_Lower band edge\_10dB above AGC



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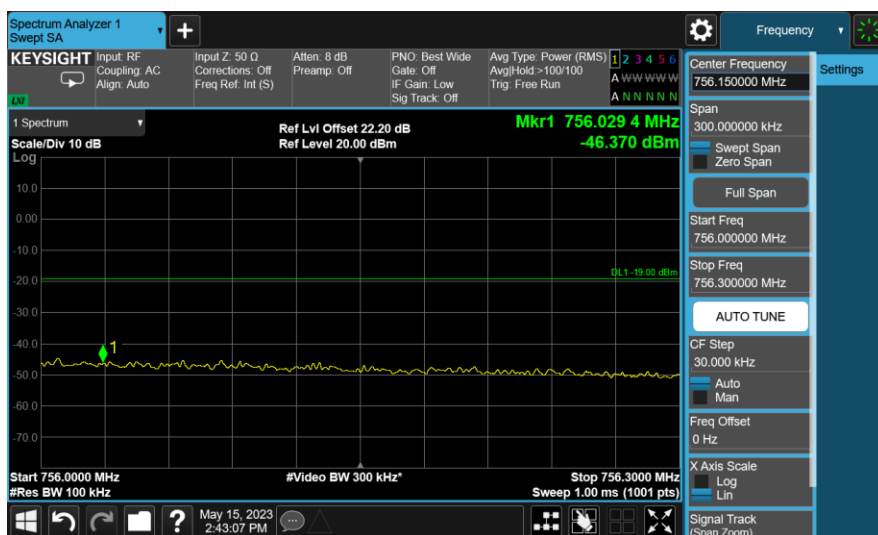
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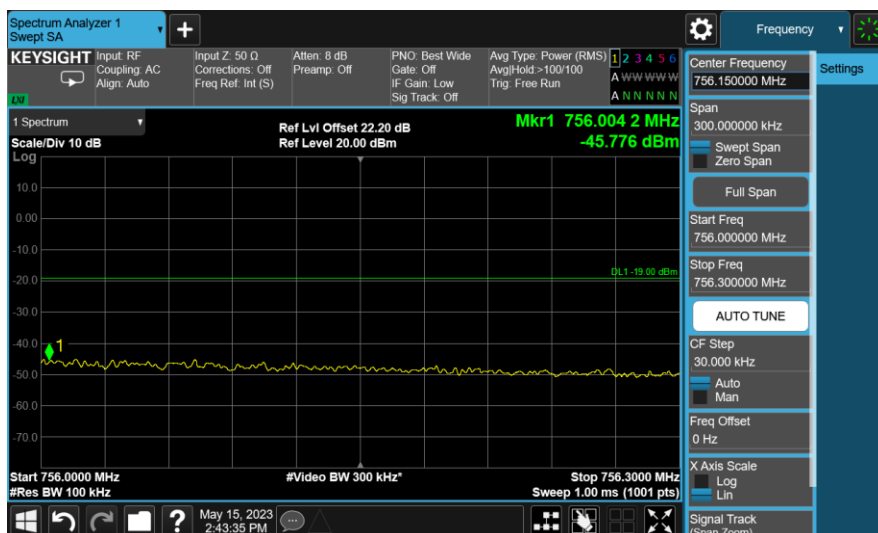
### Out-of-band emissions

#### DL\_700MHz Band

#### 1.25MHz AWGN signal input\_Upper band edge\_Pre-AGC



#### 1.25MHz AWGN signal input\_Upper band edge\_10dB above AGC



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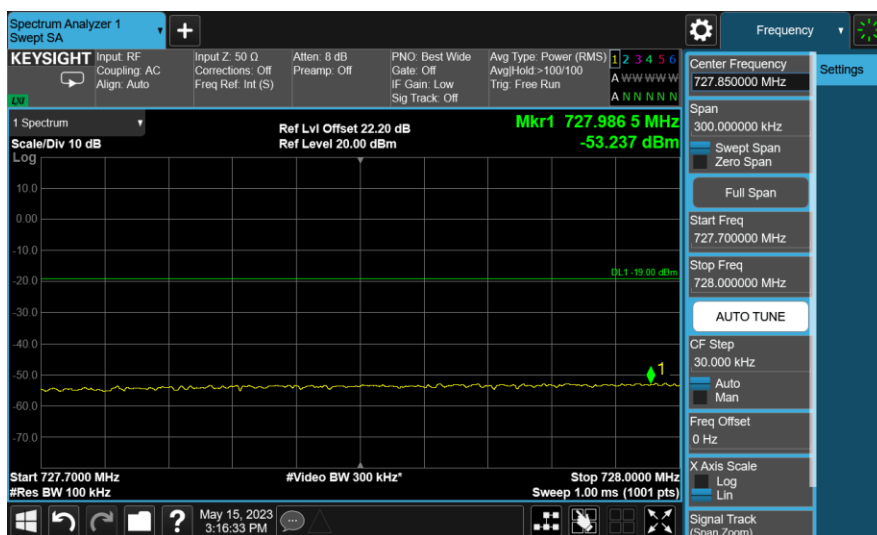
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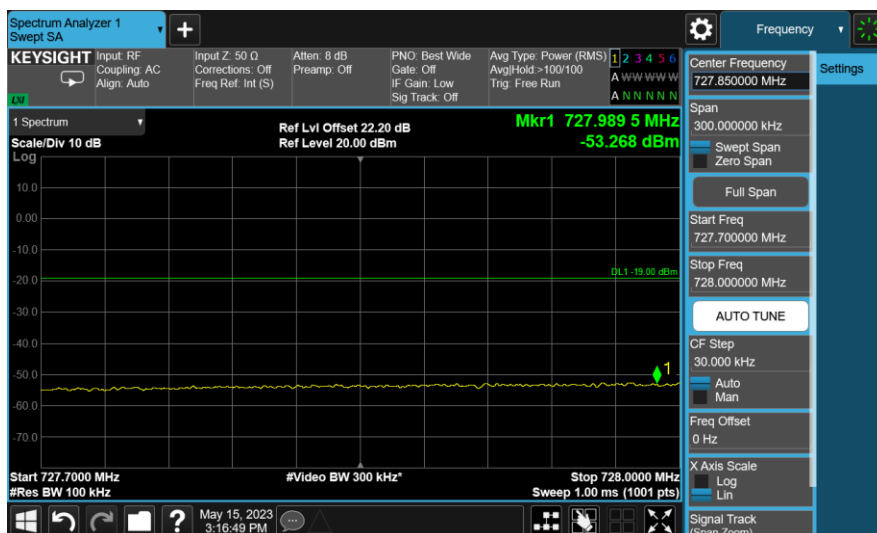
### Out-of-band emissions

#### DL\_700MHz Band

#### 4.1MHz AWGN signal input\_Lower band edge\_Pre-AGC



#### 4.1MHz AWGN signal input\_Lower band edge\_10dB above AGC



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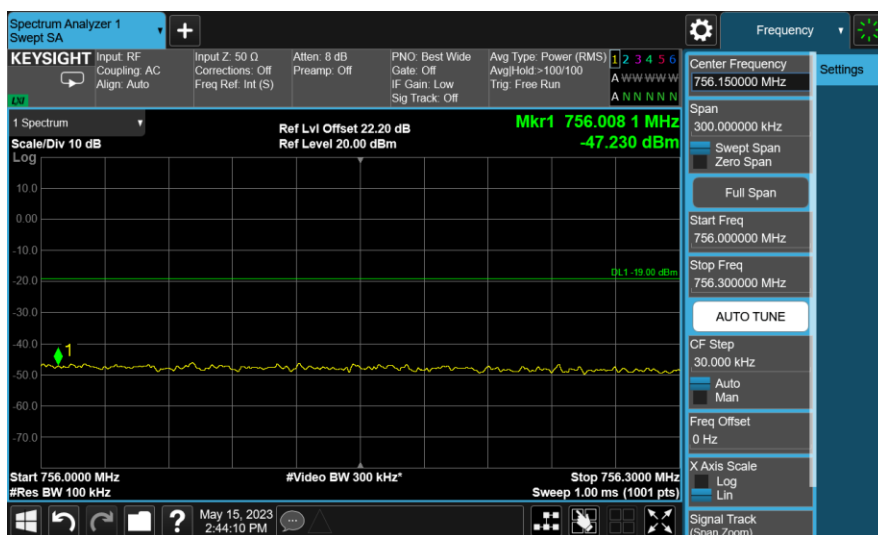
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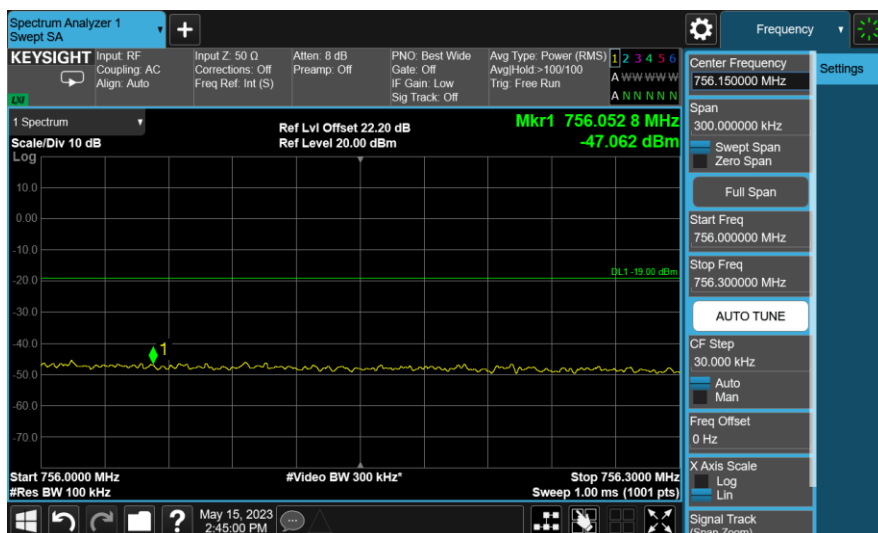
### Out-of-band emissions

#### DL\_700MHz Band

#### 4.1MHz AWGN signal input\_Upper band edge\_Pre-AGC



#### 4.1MHz AWGN signal input\_Upper band edge\_10dB above AGC



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### Out-of-band emissions

#### DL\_Cellular Band

#### GSM signal input\_Lower band edge\_Pre-AGC



#### GSM signal input\_Lower band edge\_10dB above AGC



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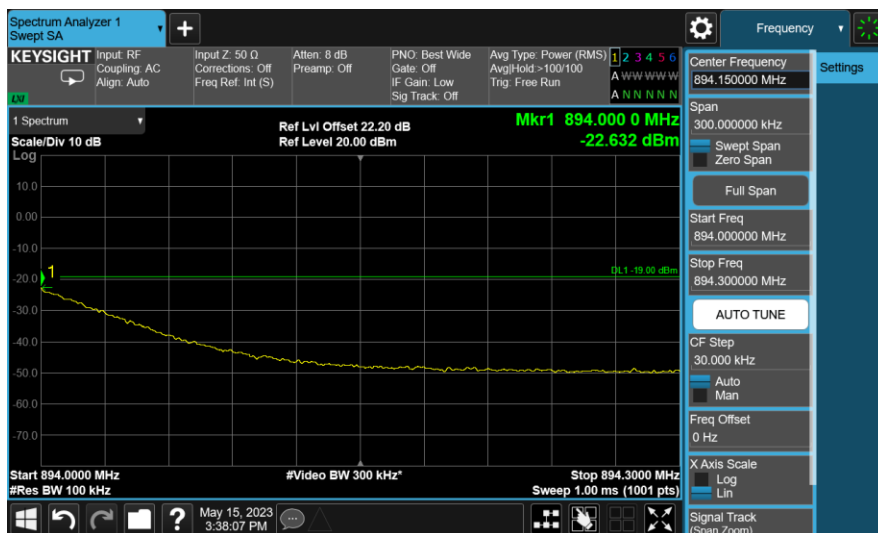
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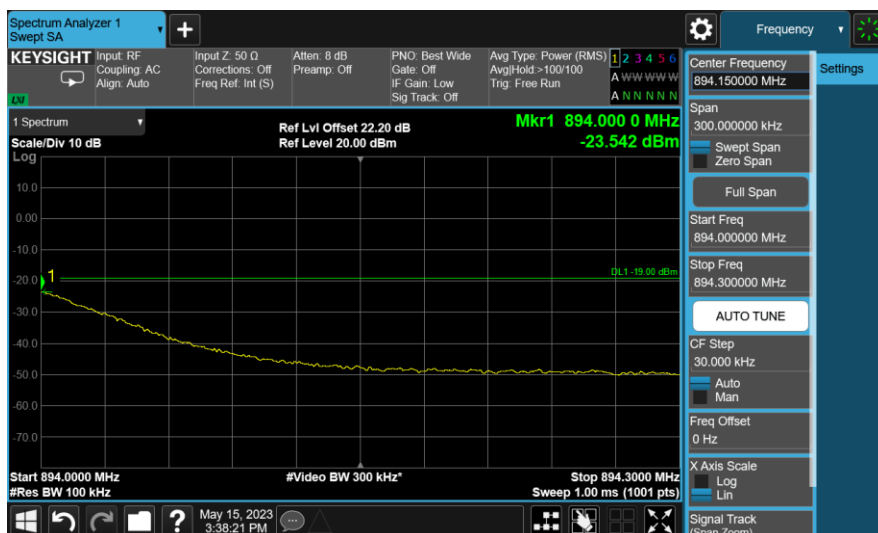
### Out-of-band emissions

#### DL\_Cellular Band

#### GSM signal input\_Upper band edge\_Pre-AGC



#### GSM signal input\_Upper band edge\_10dB above AGC



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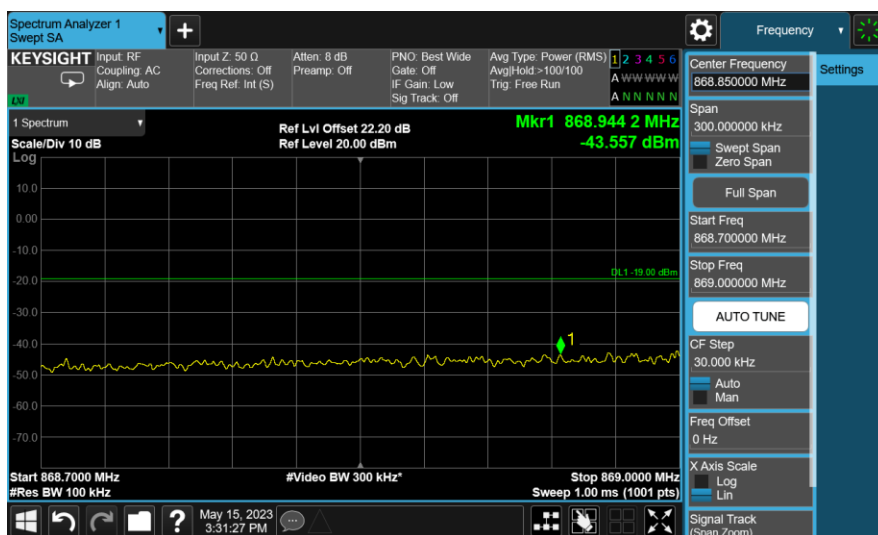
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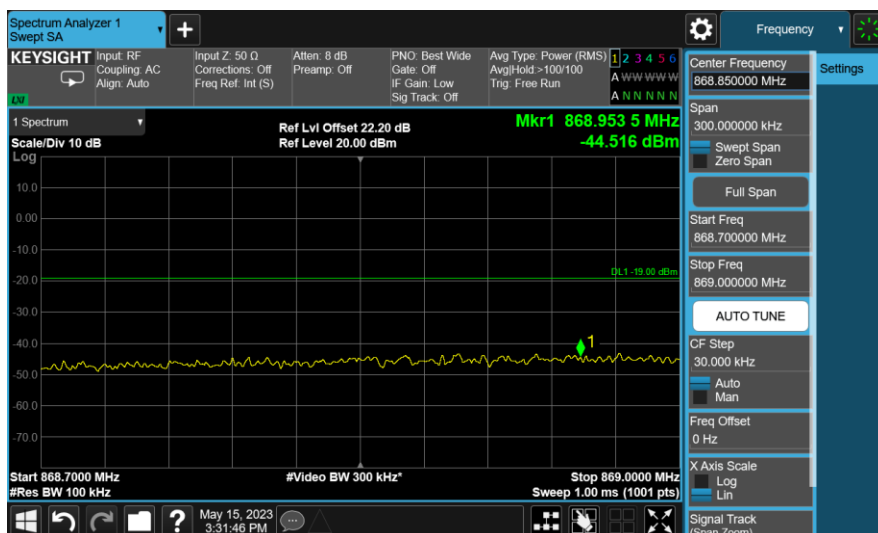
### Out-of-band emissions

#### DL\_Cellular Band

#### 1.25MHz AWGN signal input\_Lower band edge\_Pre-AGC



#### 1.25MHz AWGN signal input\_Lower band edge\_10dB above AGC



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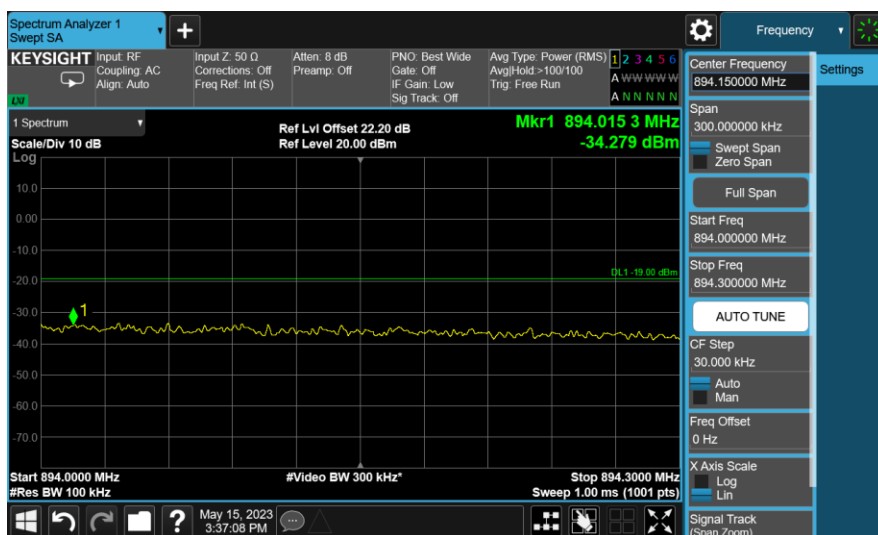
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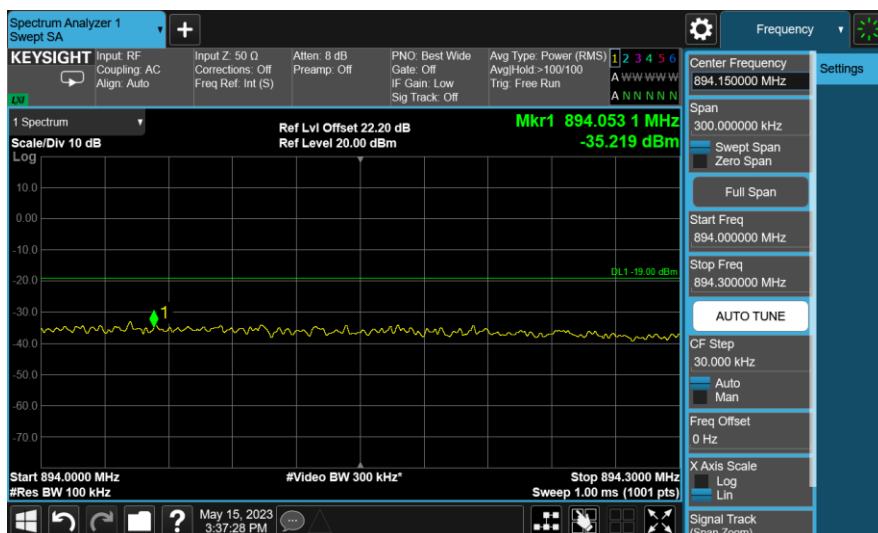
### Out-of-band emissions

#### DL\_Cellular Band

#### 1.25MHz AWGN signal input\_Upper band edge\_Pre-AGC



#### 1.25MHz AWGN signal input\_Upper band edge\_10dB above AGC



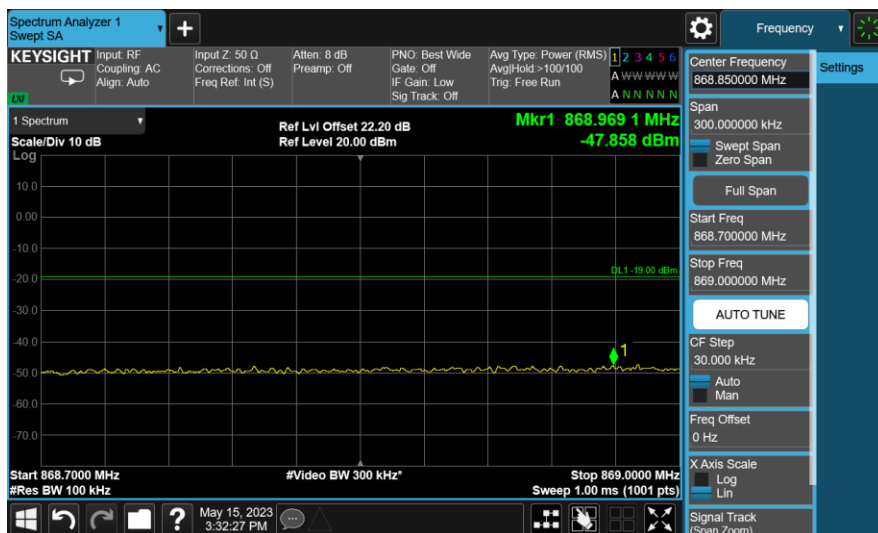
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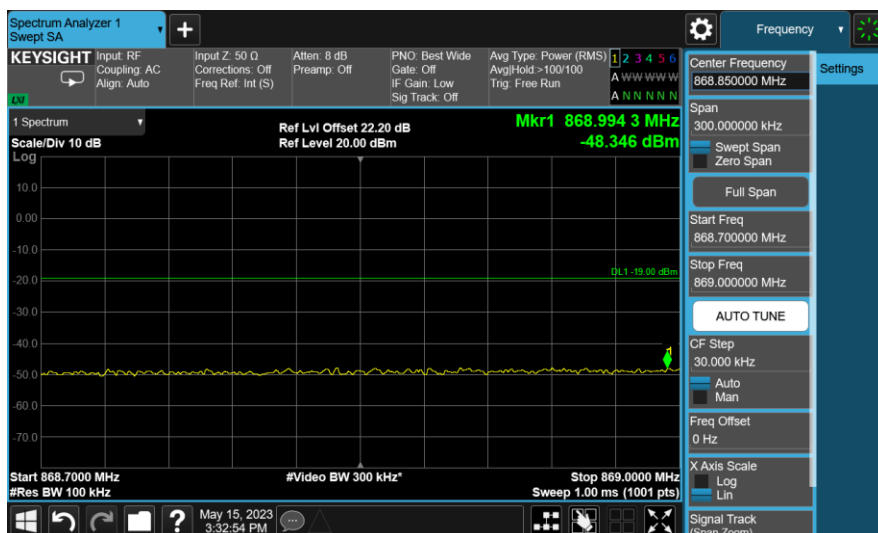
### Out-of-band emissions

#### DL\_Cellular 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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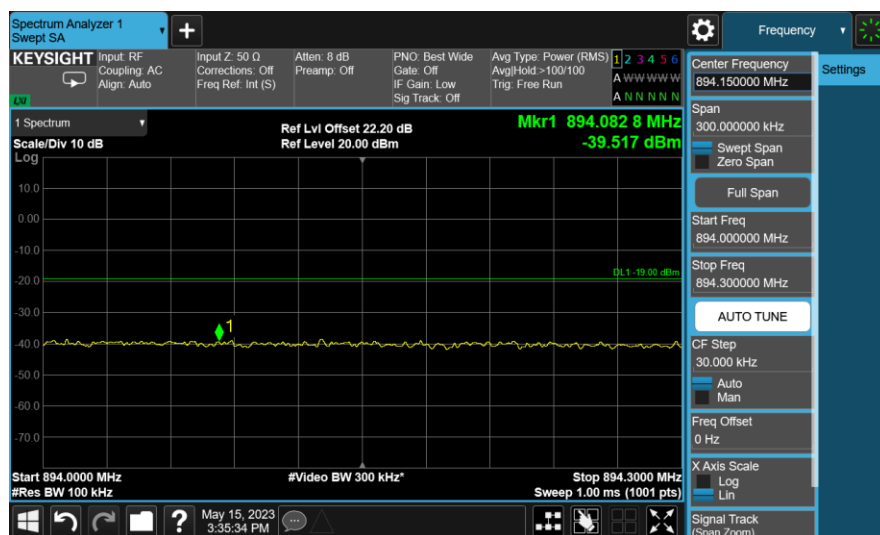
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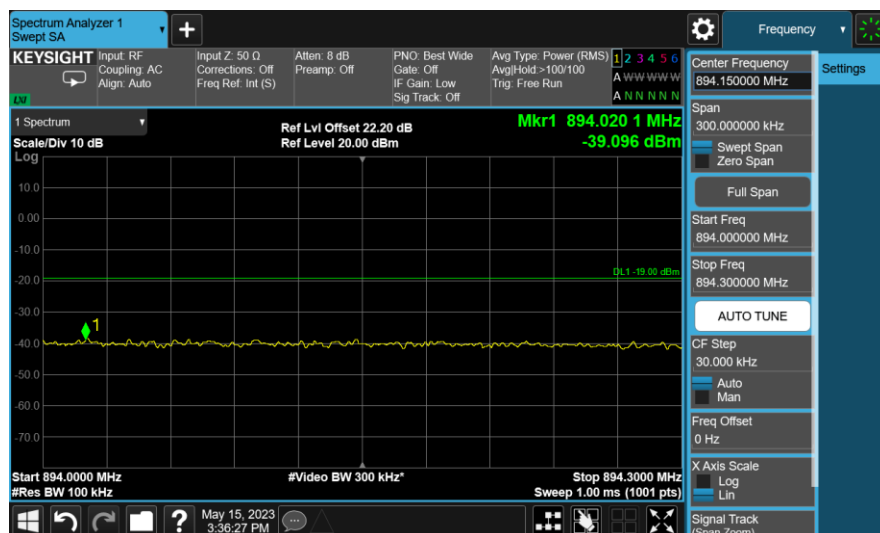
### Out-of-band emissions

#### DL\_Cellular Band

#### 4.1MHz AWGN signal input\_Upper band edge\_Pre-AGC



#### 4.1MHz AWGN signal input\_Upper band edge\_10dB above AGC



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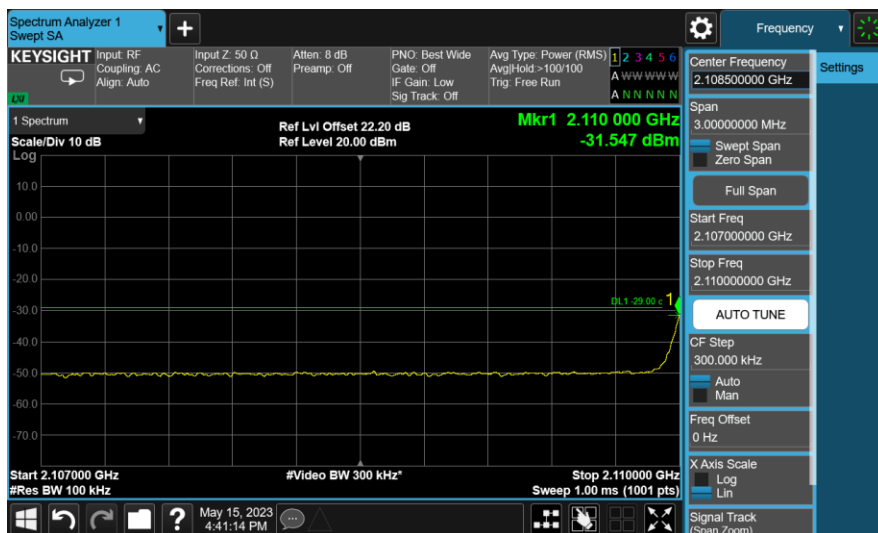
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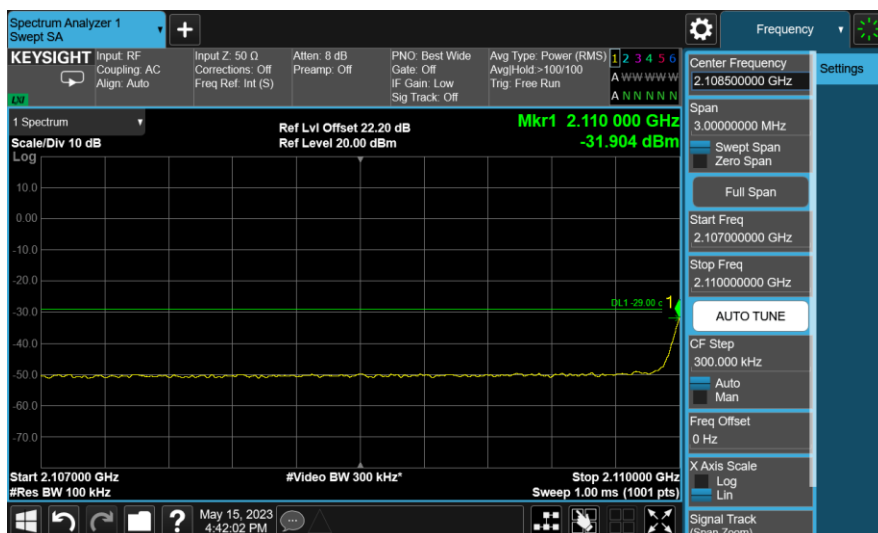
### Out-of-band emissions

#### DL\_AWS-1 Band

#### GSM signal input\_Lower band edge\_Pre-AGC



#### GSM signal input\_Lower band edge\_10dB above AGC



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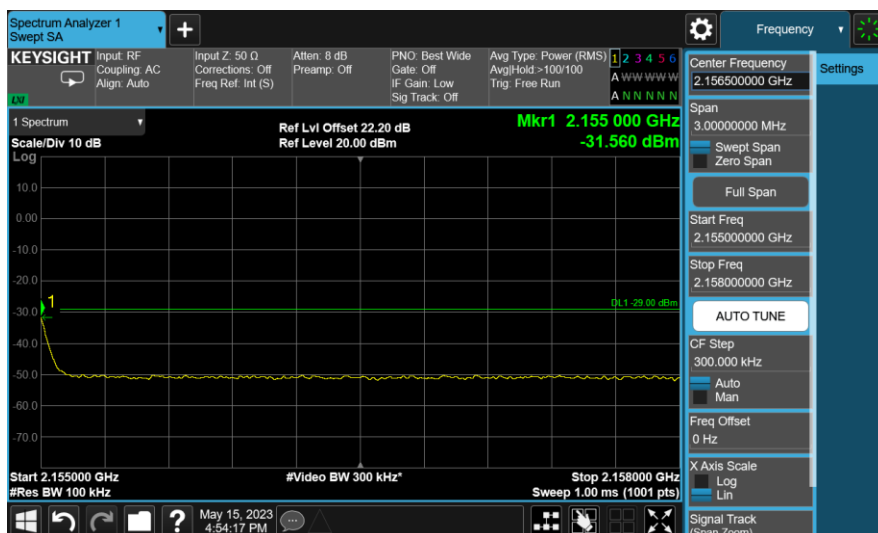
### Out-of-band emissions

#### DL\_AWS-1 Band

#### GSM signal input\_Upper band edge\_Pre-AGC



#### GSM signal input\_Upper band edge\_10dB above AGC



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