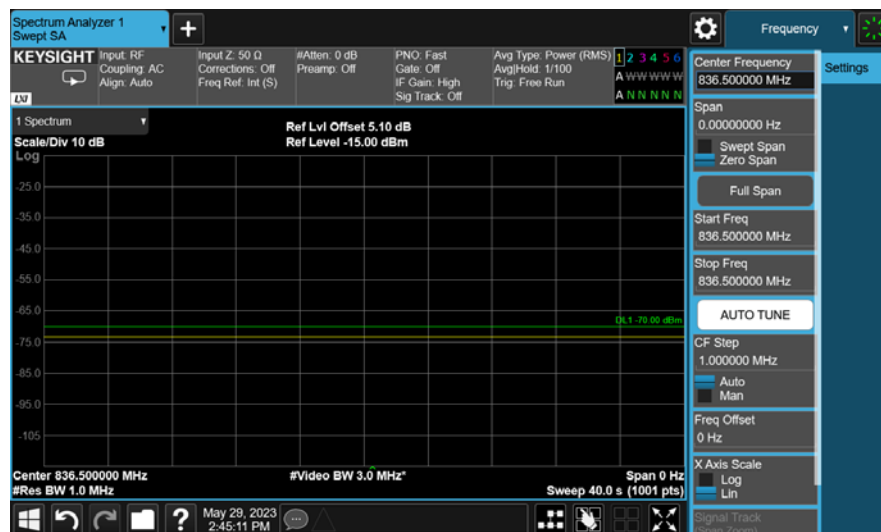
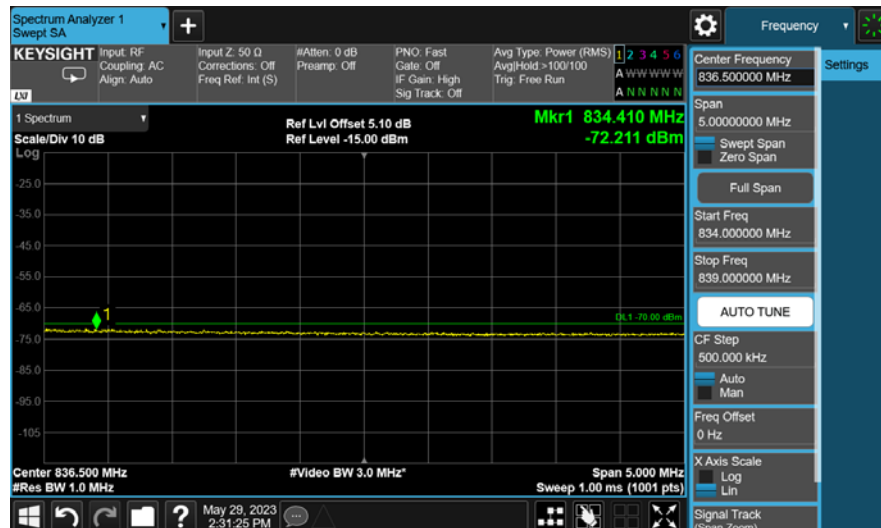


### Authorized CMRS Provider test

UL\_Cellular Band\_Non-authorized CMRS provider signal (MCC/MCN: 311123)



#### Remark:

1. The EUT is inactive for at least 30s when change provider code set.
2. The EUT is in compliance with 20.21(e)(9)(i)(I) the noise power limit -70dBm in power off mode.
3. The EUT is in compliance with the gain limit 23dB because the EUT operates in "Transmit Power OFF Mode" and loses its amplification ability.



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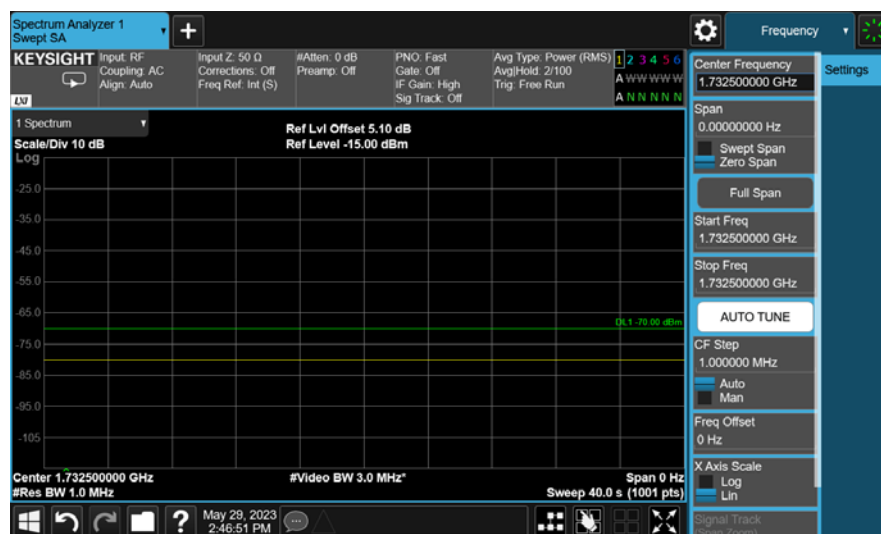
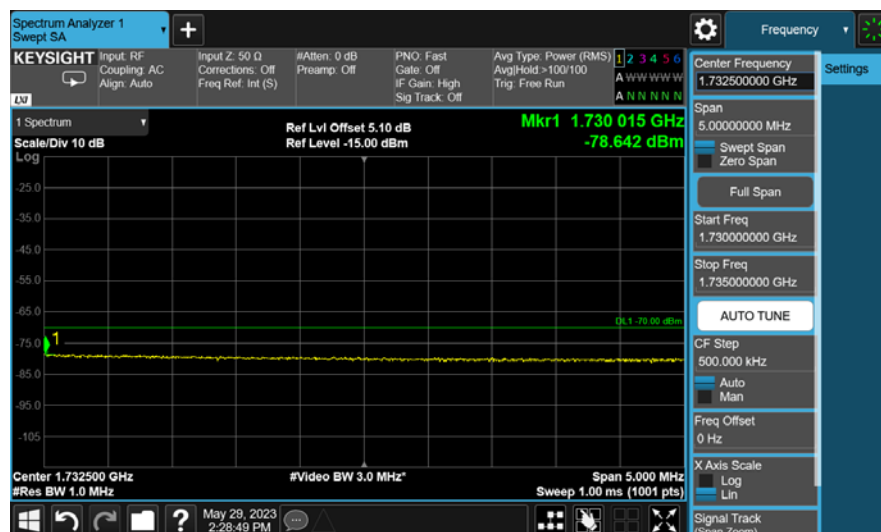
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### Authorized CMRS Provider test

UL\_AWS-1 Band\_Non-authorized CMRS provider signal (MCC/MCN: 310123)



#### Remark:

1. The EUT is inactive for at least 30s when change provider code set.
2. The EUT is in compliance with 20.21(e)(9)(i)(I) the noise power limit -70dBm in power off mode.
3. The EUT is in compliance with the gain limit 23dB because the EUT operates in "Transmit Power OFF Mode" and loses its amplification ability.

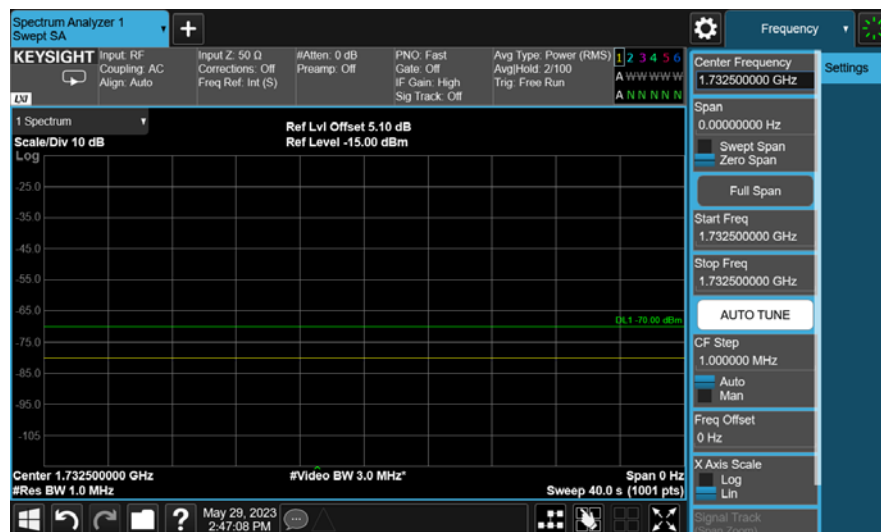
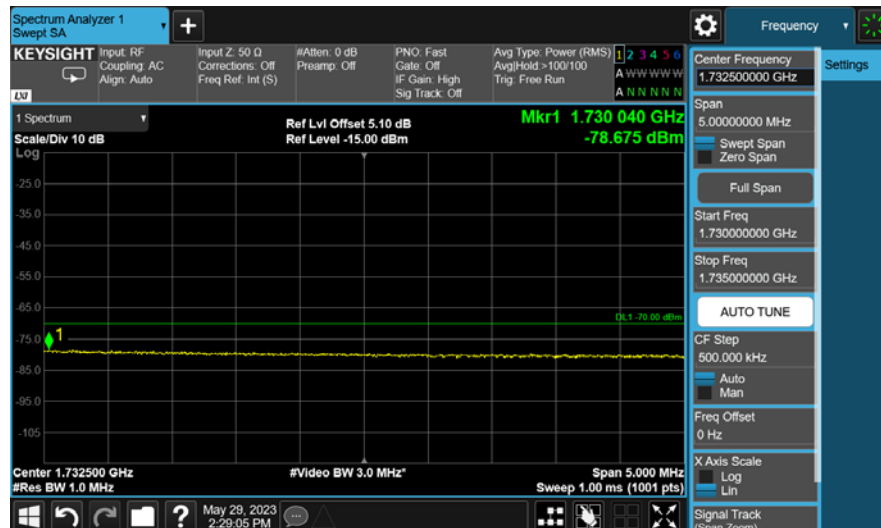


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### Authorized CMRS Provider test

UL\_AWS-1 Band\_Non-authorized CMRS provider signal (MCC/MCN: 311123)



#### Remark:

1. The EUT is inactive for at least 30s when change provider code set.
2. The EUT is in compliance with 20.21(e)(9)(i)(I) the noise power limit -70dBm in power off mode.
3. The EUT is in compliance with the gain limit 23dB because the EUT operates in "Transmit Power OFF Mode" and loses its amplification ability.



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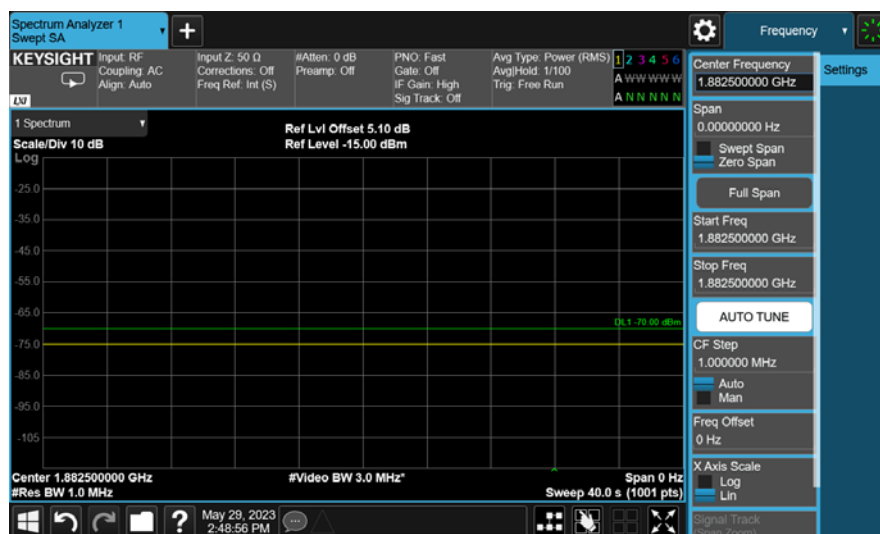
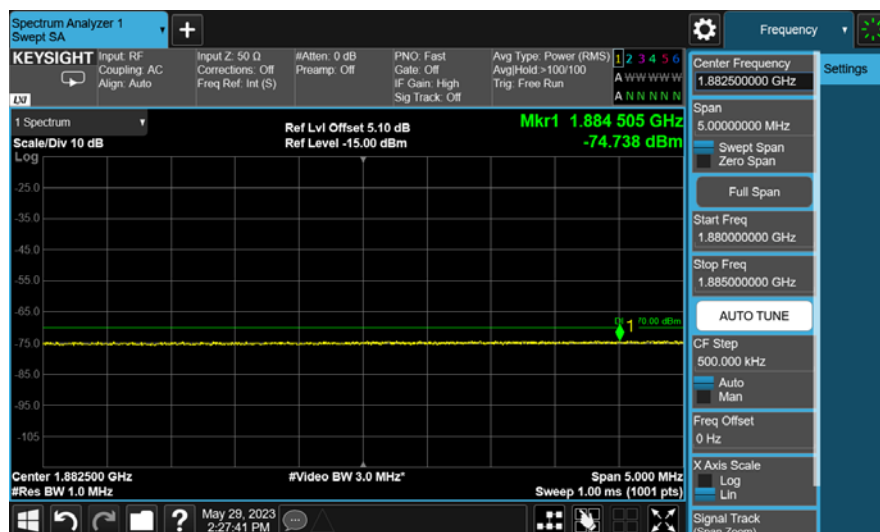
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### Authorized CMRS Provider test

UL\_Broadband PCS Band\_Non-authorized CMRS provider signal (MCC/MCN: 310123)



#### Remark:

1. The EUT is inactive for at least 30s when change provider code set.
2. The EUT is in compliance with 20.21(e)(9)(i)(I) the noise power limit -70dBm in power off mode.
3. The EUT is in compliance with the gain limit 23dB because the EUT operates in "Transmit Power OFF Mode" and loses its amplification ability.



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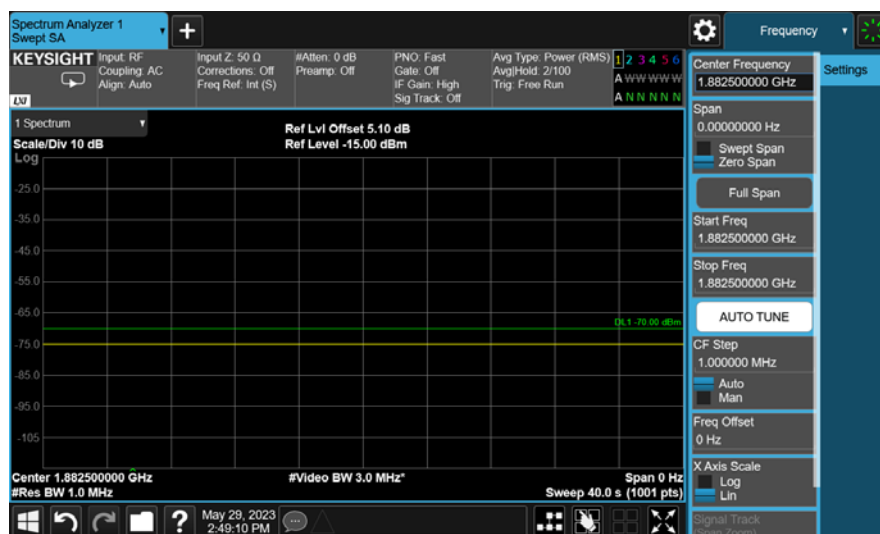
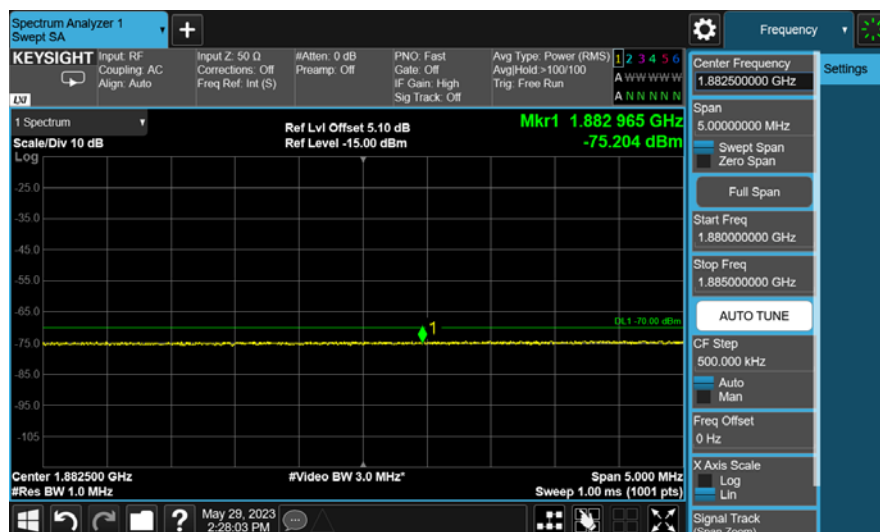
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### Authorized CMRS Provider test

UL\_Broadband PCS Band\_Non-authorized CMRS provider signal (MCC/MCN: 311123)



### Remark:

1. The EUT is inactive for at least 30s when change provider code set.
2. The EUT is in compliance with 20.21(e)(9)(i)(I) the noise power limit -70dBm in power off mode.
3. The EUT is in compliance with the gain limit 23dB because the EUT operates in "Transmit Power OFF Mode" and loses its amplification ability.



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## 3 Maximum power

Maximum Output Power							
Path	Band	Signal Type	Input Signal Level (dBm)	Conducted Output Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
DL	Lower 700MHz	AWGN	-75.6	4.71	8.71	≤10	PASS
		GSM	-74.8	5.48	9.48		PASS
	Upper 700MHz	AWGN	-75.7	4.76	8.76		PASS
		GSM	-75.0	5.49	9.49		PASS
	Cellular	AWGN	-75.7	4.51	8.51		PASS
		GSM	-74.8	5.46	9.46		PASS
	AWS-1-1	AWGN	-75.7	4.71	8.71		PASS
		GSM	-75.4	5.67	9.67		PASS
	Broadband PCS	AWGN	-76.4	4.55	8.55		PASS
		GSM	-75.3	5.66	9.66		PASS
UL	Lower 700MHz	AWGN	-62.1	18.81	28.81	Lower:17 Upper:30	PASS
		GSM	-61.7	19.42	29.42		PASS
	Upper 700MHz	AWGN	-62.3	18.59	28.59		PASS
		GSM	-61.4	19.24	29.24		PASS
	Cellular	AWGN	-61.8	18.46	28.46		PASS
		GSM	-61.1	19.12	29.12		PASS
	AWS-1-1	AWGN	-62.2	18.85	28.85		PASS
		GSM	-60.8	19.37	29.37		PASS
	Broadband PCS	AWGN	-62.4	18.17	28.17		PASS
		GSM	-61.8	19.23	29.23		PASS

### Remark:

1. The test frequency  $f_0$  was determined in Authorized frequency band verification test in this report.
2. The input signal level is pre-AGC (just below the AGC threshold).
3. ERIP = Conducted Output Power + Antenna Gain, according to the declaration from the manufacturer, the maximum donor antenna gain is 10dBi and the maximum service antenna gain is 4dBi.
4. The frequency  $f_0$  with the highest power level in each operational band used for test the max output power.



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Maximum transmitter test input levels					
Path	Band	Signal Type	Input Power (dBm)	Conducted output power (dBm)	Verdict
DL	Lower 700MHz	AWGN	-46.1	4.34	PASS
		GSM	-46.3	5.17	PASS
	Upper 700MHz	AWGN	-46.9	4.23	PASS
		GSM	-46.6	5.04	PASS
	Cellular	AWGN	-46.0	4.11	PASS
		GSM	-45.1	5.32	PASS
	AWS-1-1	AWGN	-44.8	4.45	PASS
		GSM	-47.0	5.34	PASS
	Broadband PCS	AWGN	-46.8	4.18	PASS
		GSM	-45.8	5.34	PASS
UL	Lower 700MHz	AWGN	-33.7	18.67	PASS
		GSM	-32.3	19.31	PASS
	Upper 700MHz	AWGN	-33.2	18.45	PASS
		GSM	-32.8	19.21	PASS
	Cellular	AWGN	-32.1	18.03	PASS
		GSM	-32.2	18.97	PASS
	AWS-1-1	AWGN	-33.5	18.45	PASS
		GSM	-32.1	19.21	PASS
	Broadband PCS	AWGN	-34.0	18.00	PASS
		GSM	-33.6	18.89	PASS
Remark: 1. For downlink, the EUT went into shutdown mode at the maximum input level (-20dBm) indicated in 5.5 of KDB 935210 D04. 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 D04. 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.					





## 4 Maximum booster gain computation

Maximum Output Power							
Path	Band	Signal Type	Input Signal Level (dBm)	Conducted Output Power (dBm)	Gain (dB)	Limit (dB)	Verdict
DL	Lower 700MHz	AWGN	-75.6	4.71	80.31	≤100	PASS
		GSM	-74.8	5.48	80.28		PASS
	Upper 700MHz	AWGN	-75.7	4.76	80.46		PASS
		GSM	-75.0	5.49	80.49		PASS
	Cellular	AWGN	-75.7	4.51	80.21		PASS
		GSM	-74.8	5.46	80.26		PASS
	AWS-1-1	AWGN	-75.7	4.71	80.41		PASS
		GSM	-75.4	5.67	81.07		PASS
	Broadband PCS	AWGN	-76.4	4.55	80.95		PASS
		GSM	-75.3	5.66	80.96		PASS
UL	Lower 700MHz	AWGN	-62.1	18.81	80.91		PASS
		GSM	-61.7	19.42	81.12		PASS
	Upper 700MHz	AWGN	-62.3	18.59	80.89		PASS
		GSM	-61.4	19.24	80.64		PASS
	Cellular	AWGN	-61.8	18.46	80.26		PASS
		GSM	-61.1	19.12	80.22		PASS
	AWS-1-1	AWGN	-62.2	18.85	81.05		PASS
		GSM	-60.8	19.37	80.17		PASS
	Broadband PCS	AWGN	-62.4	18.17	80.57		PASS
		GSM	-61.8	19.23	81.03		PASS

### Remark:

1. The test frequency  $f_0$  was determined in Authorized frequency band verification test in this report.
2. The input signal level is pre-AGC (just below the AGC threshold).
3. The EUT has automatic gain adjustment based on isolation measurements between booster donor and server antennas, so the maximum gain shall not exceed 100dB.



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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	80.26	80.87	0.61	≤9	PASS
	GSM	80.28	81.11	0.83		PASS
Upper 700MHz	AWGN	80.49	80.84	0.35		PASS
	GSM	80.48	80.67	0.19		PASS
Cellular	AWGN	80.21	80.22	0.01		PASS
	GSM	80.23	80.21	0.02		PASS
AWS-1-1	AWGN	80.37	81.03	0.66		PASS
	GSM	81.04	80.19	0.85		PASS
Broadband PCS	AWGN	80.95	80.60	0.35		PASS
	GSM	80.96	80.98	0.02		PASS



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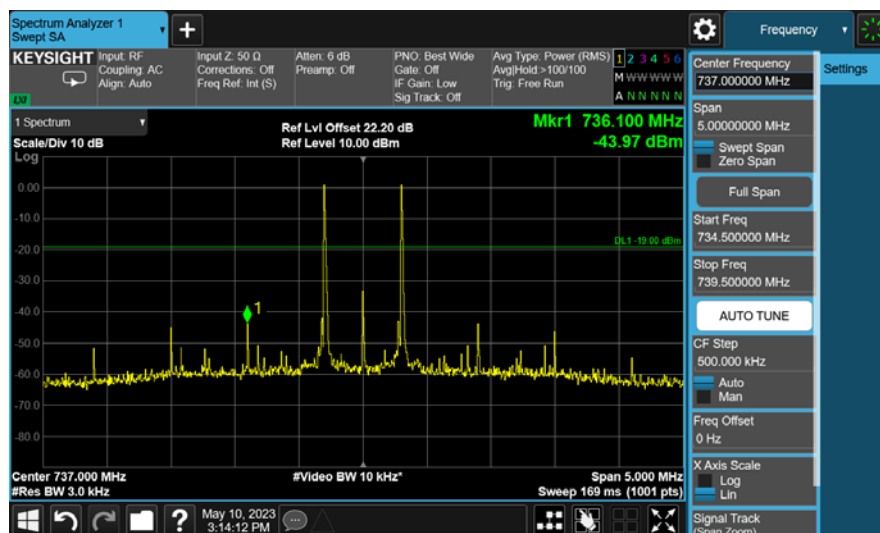
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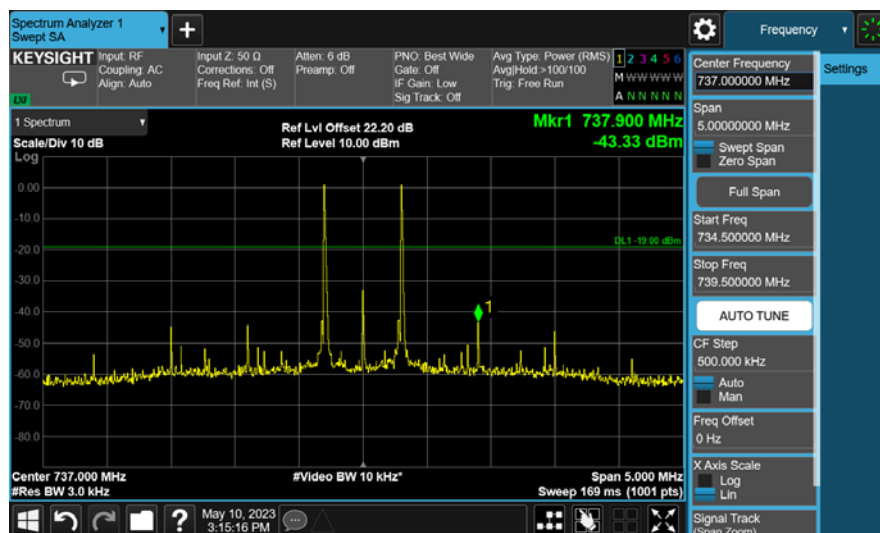
### 5 Intermodulation product

#### Intermodulation product

#### DL\_Lower 700MHz Band\_pre-AGC



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



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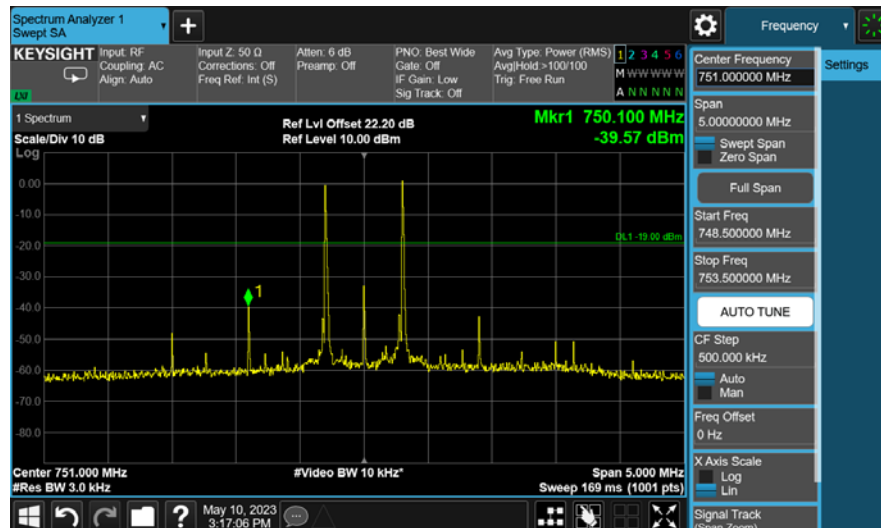
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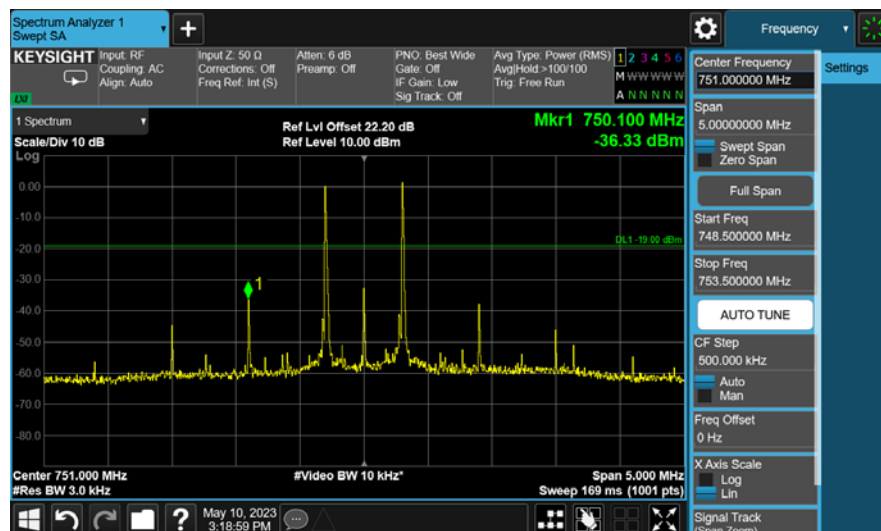
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### Intermodulation product

#### DL\_Upper 700MHz Band\_pre-AGC



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



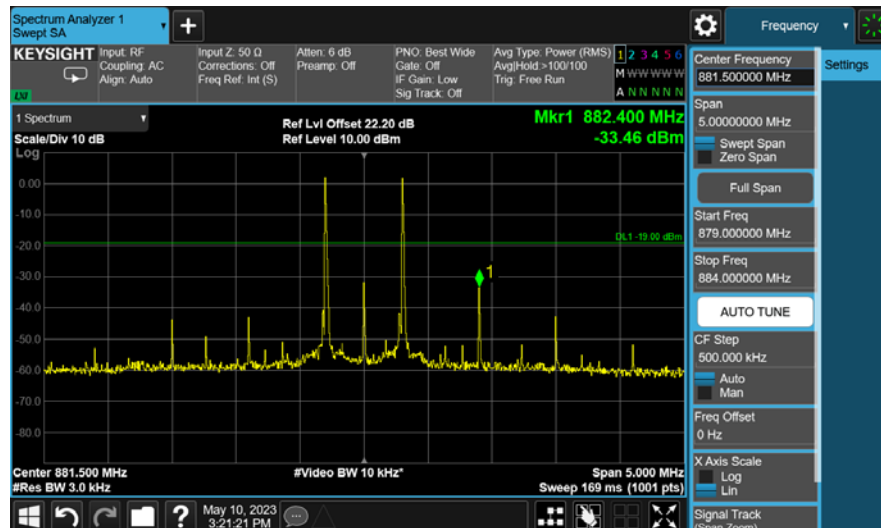
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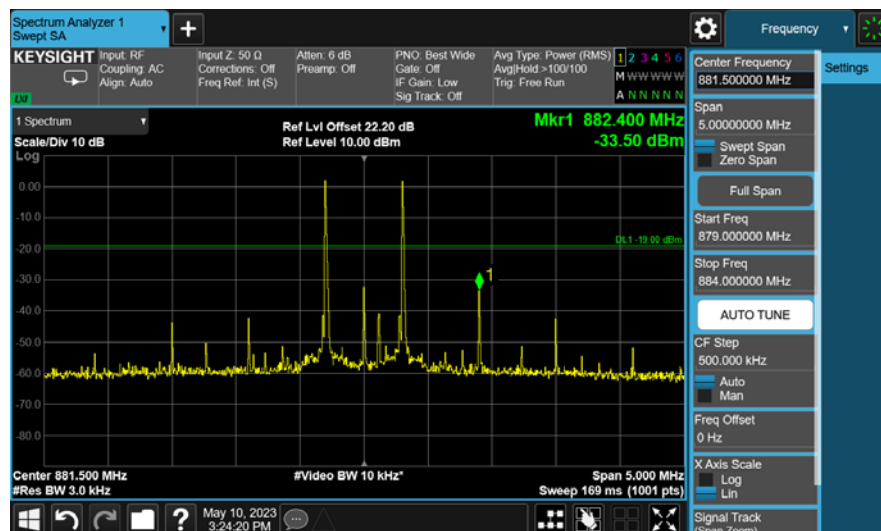


### Intermodulation product

#### DL\_Cellular Band\_pre-AGC



#### DL\_Cellular Band\_10dB above AGC

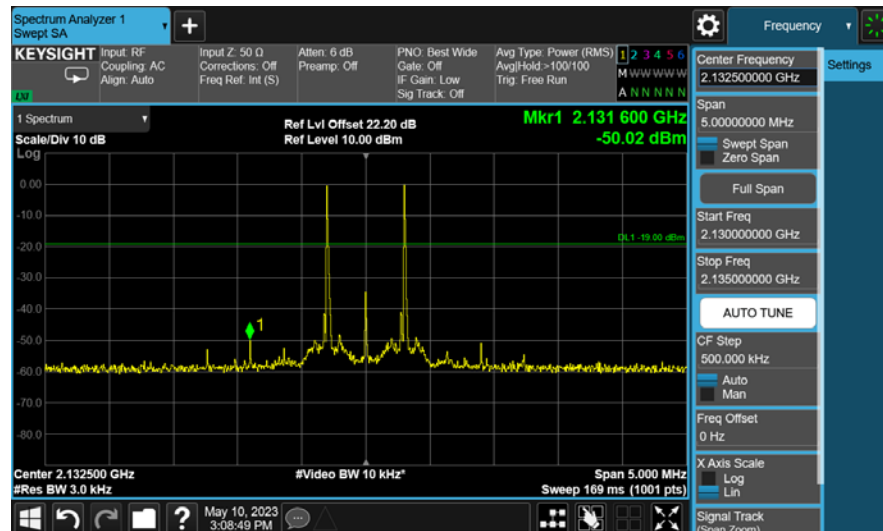


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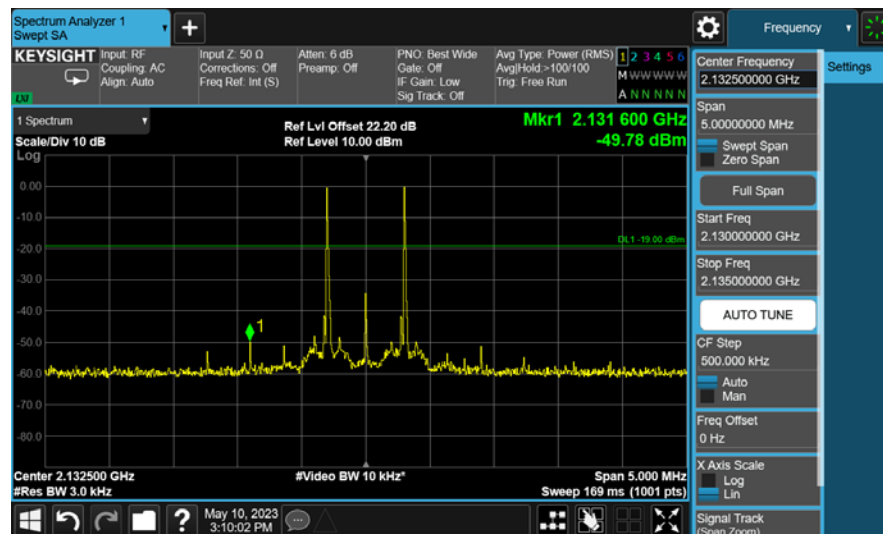
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### Intermodulation product

#### DL\_AWS-1 Band\_pre-AGC



#### DL\_AWS-1 Band\_10dB above AGC

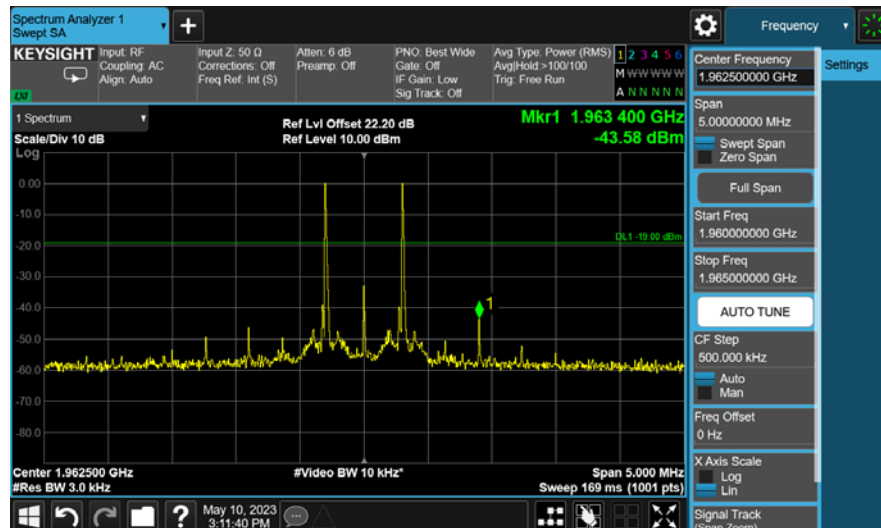


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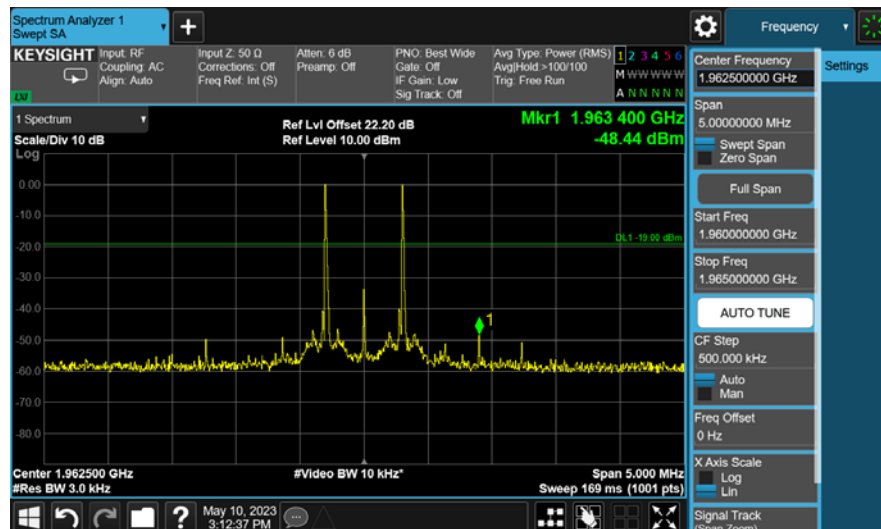
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### Intermodulation product

#### DL\_Broadband PCS Band\_pre-AGC



#### DL\_Broadband PCS Band\_10dB above AGC

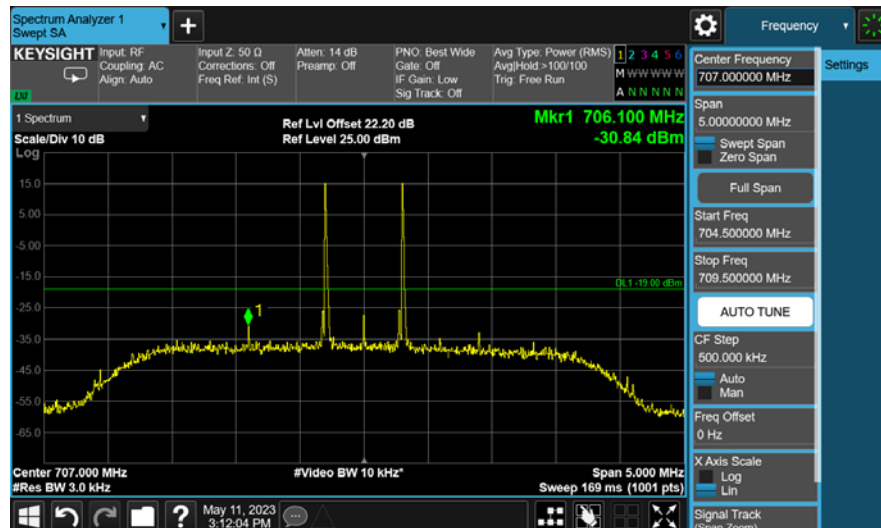


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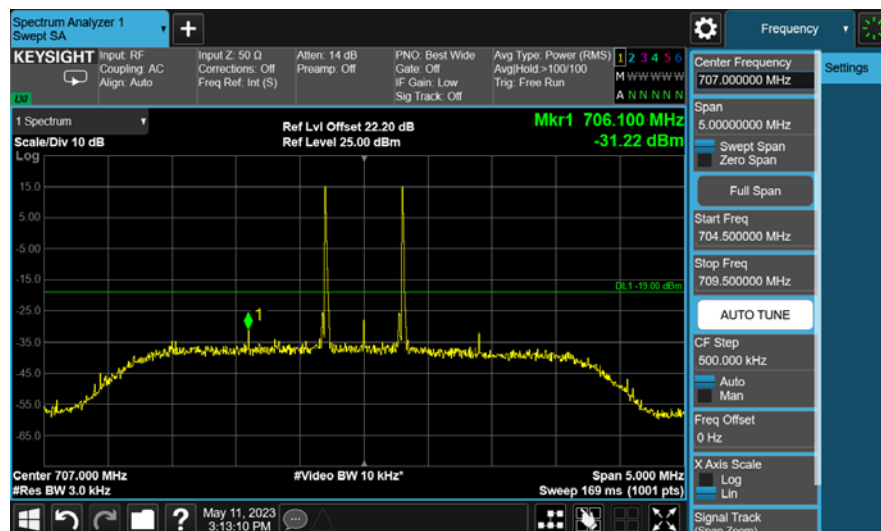
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### Intermodulation product

#### UL\_Lower 700MHz Band\_pre-AGC



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



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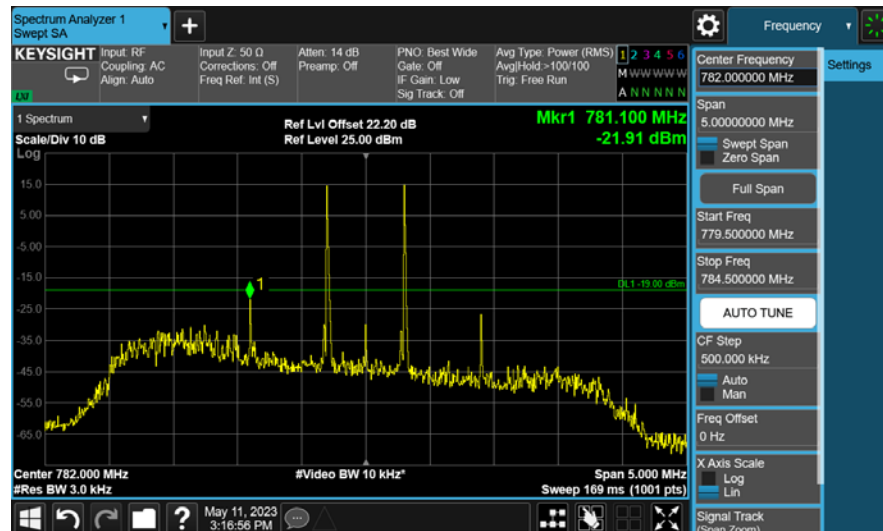
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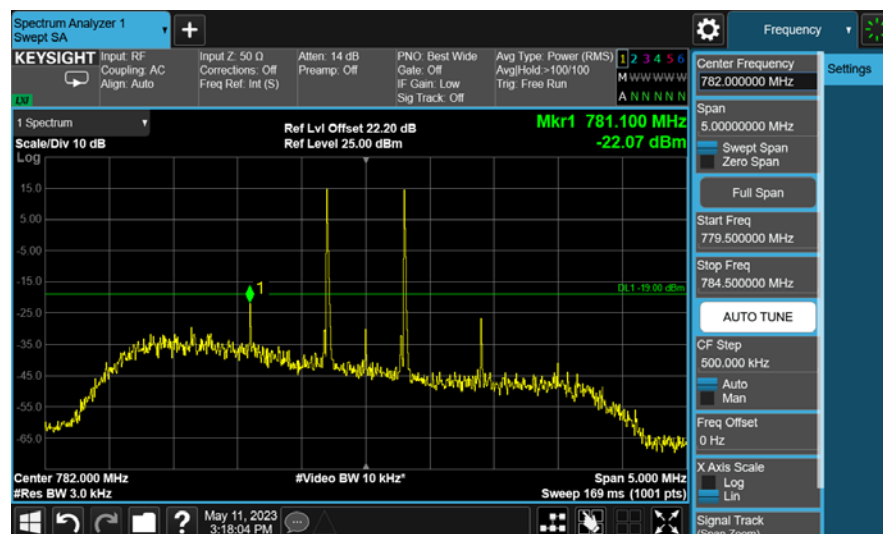


### Intermodulation product

#### UL\_Upper 700MHz Band\_pre-AGC



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



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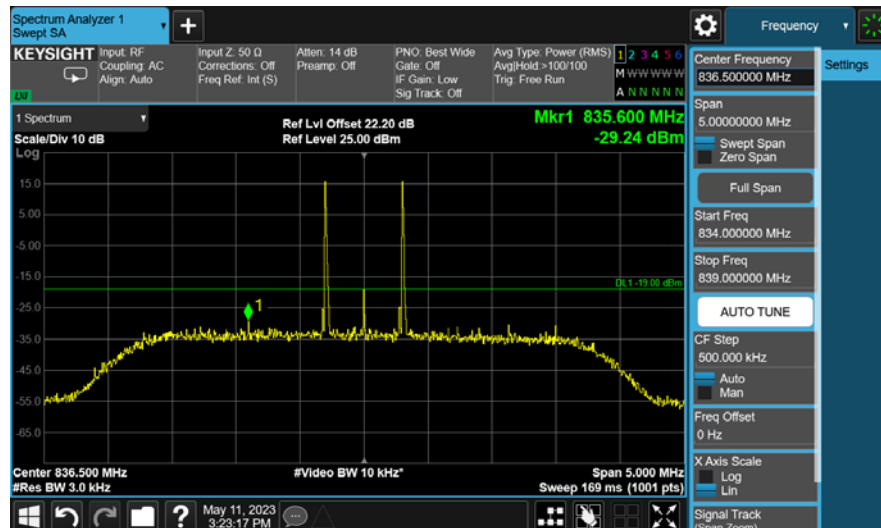
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### Intermodulation product

#### UL\_Cellular Band\_pre-AGC



#### UL\_Cellular Band\_10dB above AGC

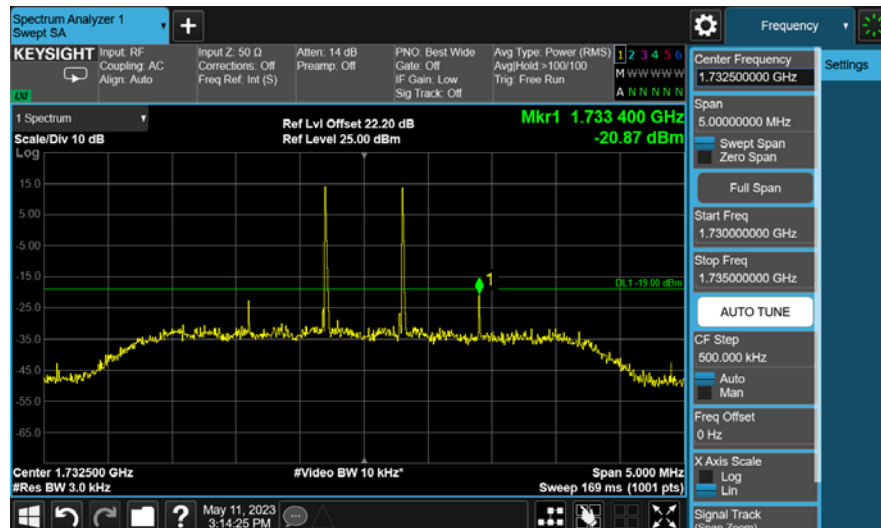


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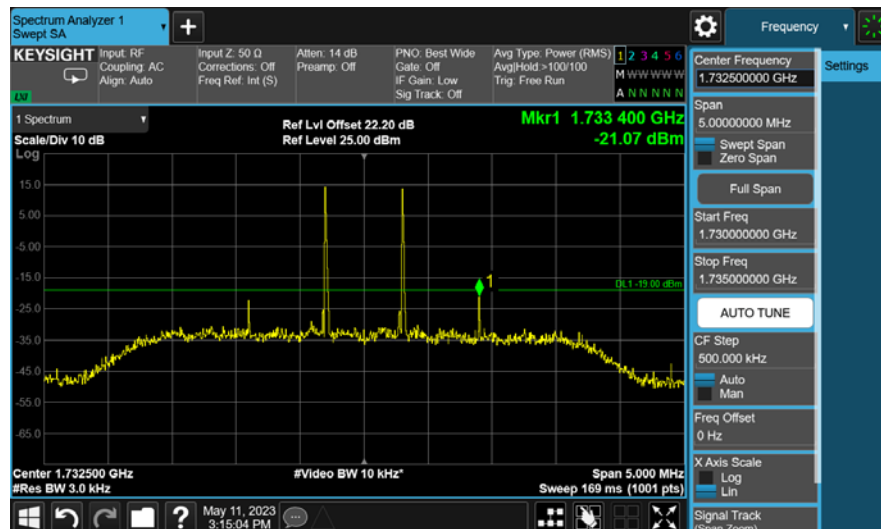
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### Intermodulation product

#### UL\_AWS-1 Band\_pre-AGC



#### UL\_AWS-1 Band\_10dB above AGC

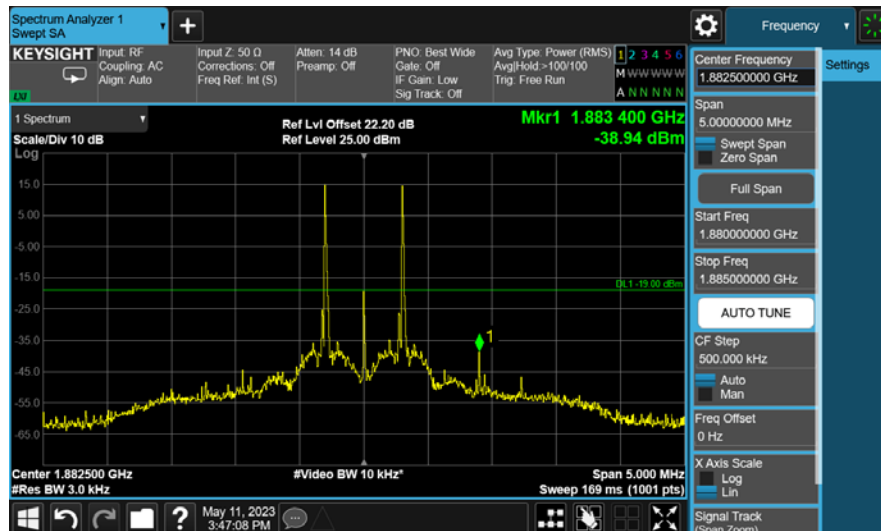


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### Intermodulation product

#### UL\_Broadband PCS Band\_pre-AGC



#### UL\_Broadband PCS Band\_10dB above AGC



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## 6 Out-of-band emissions

### 20.21(e)(9)(i)(F) Out of Band Emission Limits:

Booster out of band emissions (OOBE) shall meet the FCC's mobile emission limits for the supported bands of operation. Compliance to OOBE limits will utilize high peak-to-average CMRS signal types.

### 22.917 for Emission limitations for cellular equipment.

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.

The limit =  $\{P - [43 + 10 \log(P)]\}$  dBm = -13dBm.

### 24.238 for Emission limitations for Broadband PCS equipment.

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.

The limit =  $\{P - [43 + 10 \log(P)]\}$  dBm = -13dBm.

### 27.53(c) emission limitations for upper 700MHz

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.

The limit =  $\{P - [43 + 10 \log(P)]\}$  dBm = -13dBm.

(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.

The limit =  $\{P - [43 + 10 \log(P)]\}$  dBm = -13dBm.

### 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.

The limit =  $\{P - [43 + 10 \log(P)]\}$  dBm = -13dBm.

### 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  $43 + 10 \log(P)$  dB.

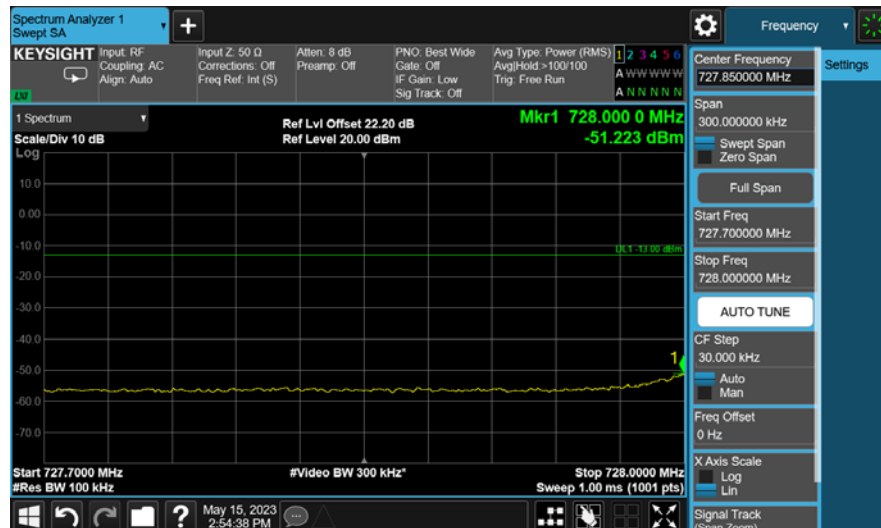
The limit =  $\{P - [43 + 10 \log(P)]\}$  dBm = -13dBm.

For AWS-1 and Broadband PCS band, to improve measurement accuracy, sensitivity and efficiency, the measured RBW (= 100kHz) is different from the reference RBW (= 1MHz, stated in KDB 935210 D04) @ GSM signal input, the measured value shall be increased by  $10 \lg(1000/100) = 10$ dB. The limit was calculated to show -23dBm to determine the test result conveniently

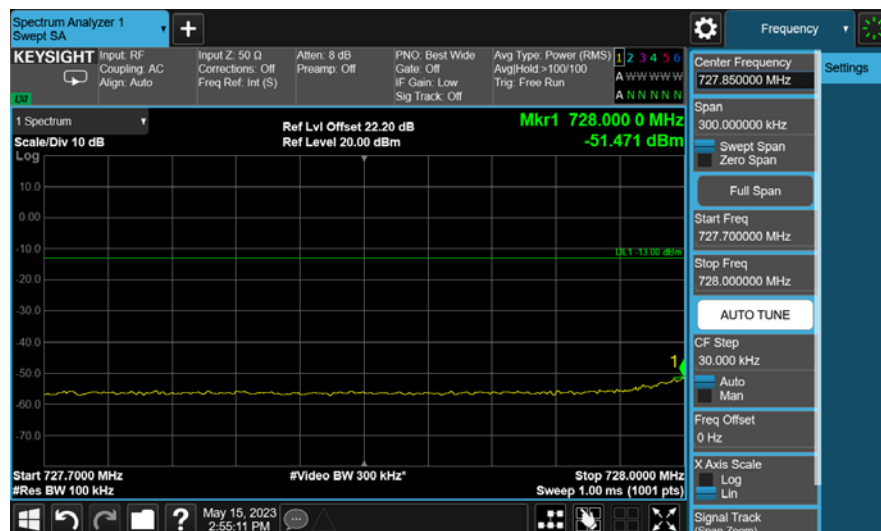


### Out-of-band emissions

#### DL\_Lower 700MHz Band\_GSM input\_Lower band edge\_pre-AGC



#### DL\_Lower 700MHz Band\_GSM input\_Lower band edge\_10dB above AGC



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### Out-of-band emissions

#### DL\_Lower 700MHz Band\_GSM input\_Upper band edge\_pre-AGC



#### DL\_Lower 700MHz Band\_GSM input\_Upper band edge\_10dB above AGC



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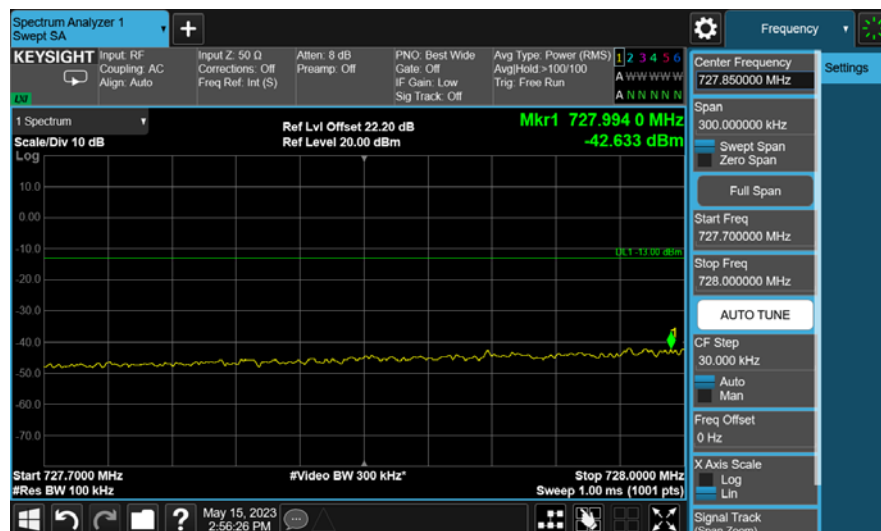
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### Out-of-band emissions

DL\_Lower 700MHz Band\_1.25MHz AWGN input\_Lower band edge\_pre-AGC



DL\_Lower 700MHz Band\_1.25MHz AWGN input\_Lower band edge\_10dB above AGC



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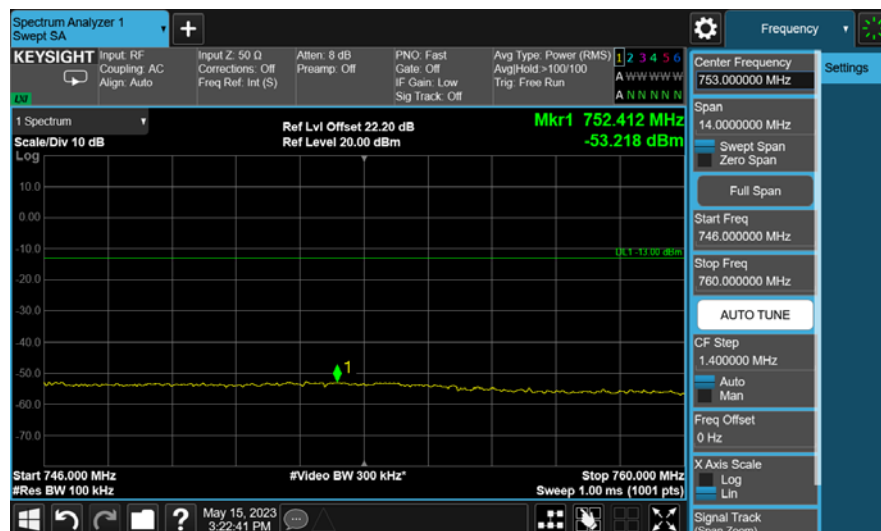


### Out-of-band emissions

DL\_Lower 700MHz Band\_1.25MHz AWGN input\_Upper band edge\_pre-AGC



DL\_Lower 700MHz Band\_1.25MHz AWGN input\_Upper band edge\_10dB above AGC

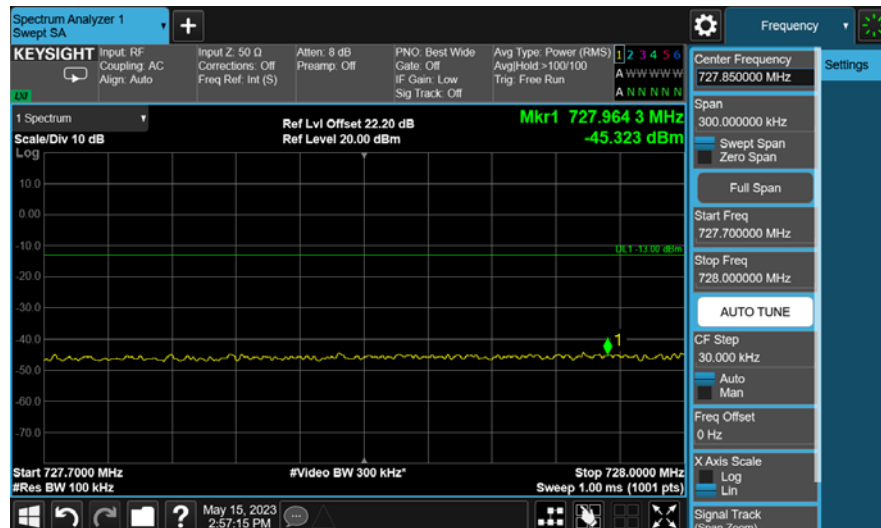


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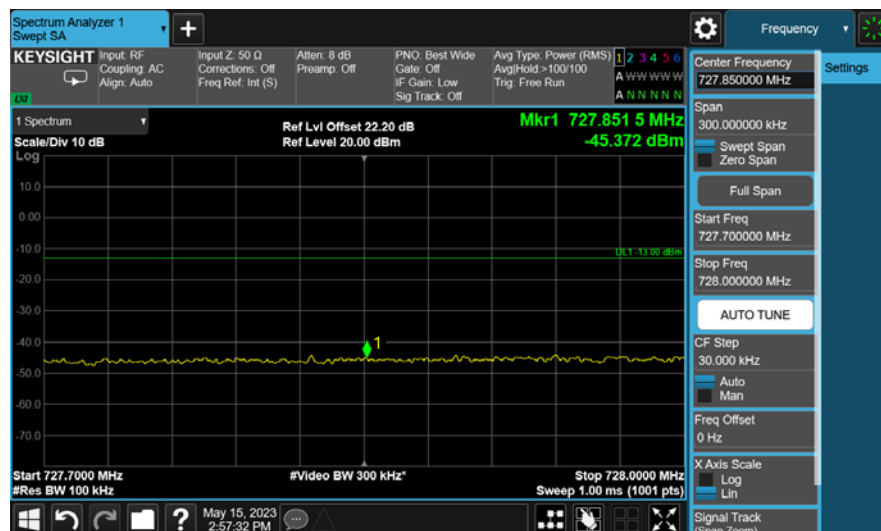
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### Out-of-band emissions

DL\_Lower 700MHz Band\_4.1MHz AWGN input\_Lower band edge\_pre-AGC



DL\_Lower 700MHz Band\_4.1MHz AWGN input\_Lower band edge\_10dB above AGC

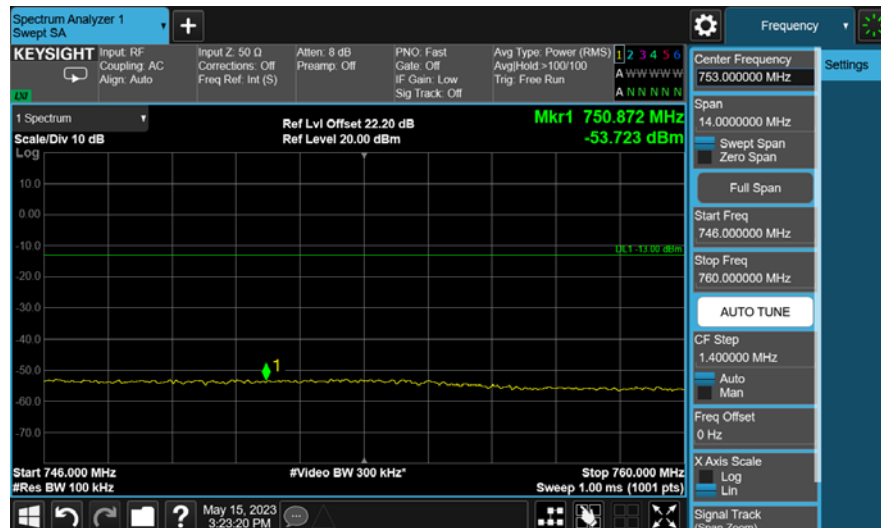


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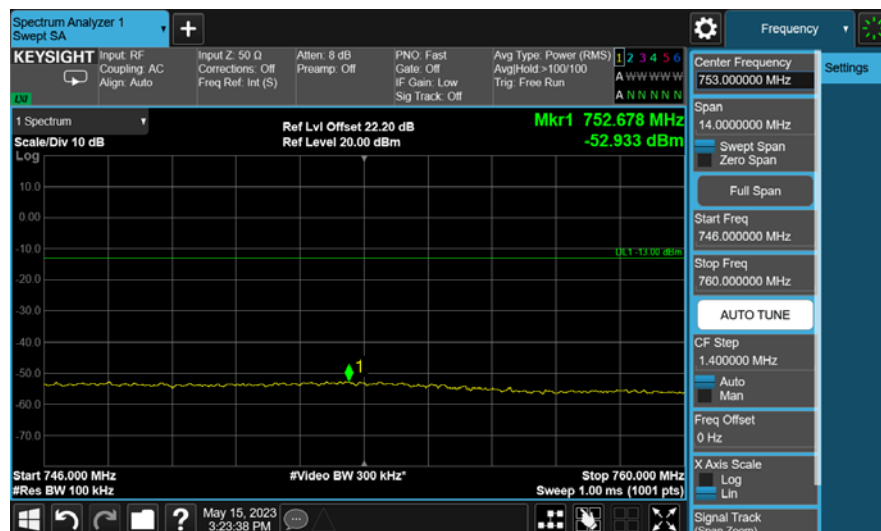
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### Out-of-band emissions

DL\_Lower 700MHz Band\_4.1MHz AWGN input\_Upper band edge\_pre-AGC



DL\_Lower 700MHz Band\_4.1MHz AWGN input\_Upper band edge\_10dB above AGC

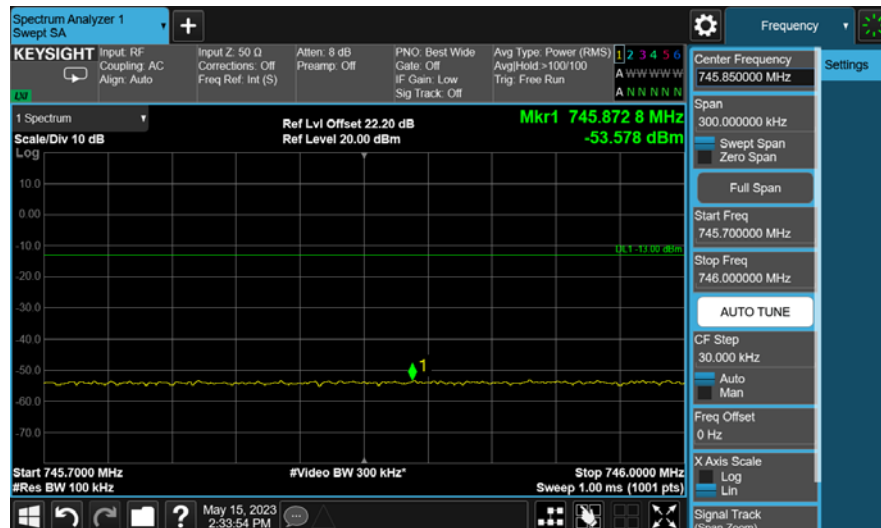


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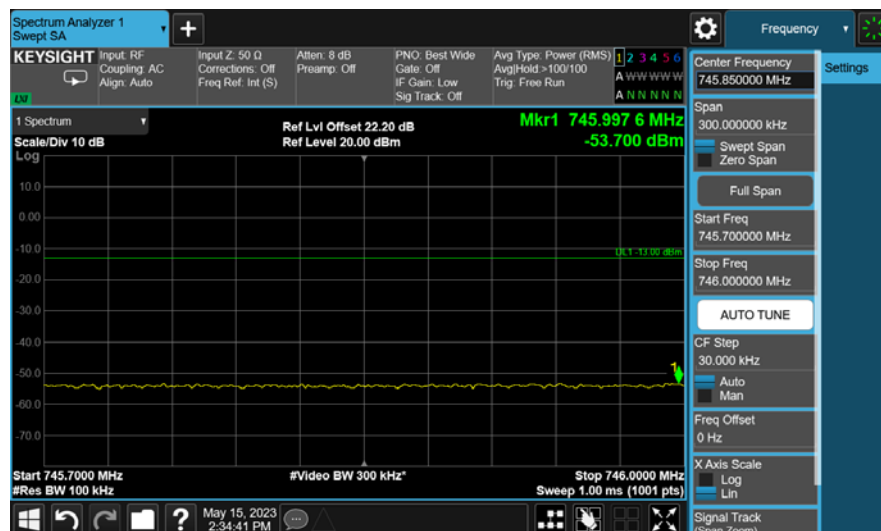
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### Out-of-band emissions

#### DL\_Upper 700MHz Band\_GSM input\_Lower band edge\_pre-AGC



#### DL\_Upper 700MHz Band\_GSM input\_Lower band edge\_10dB above AGC



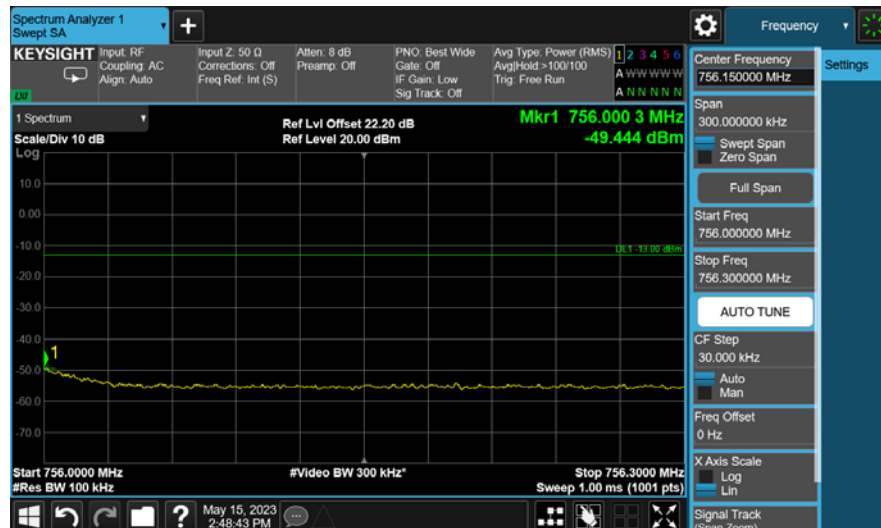
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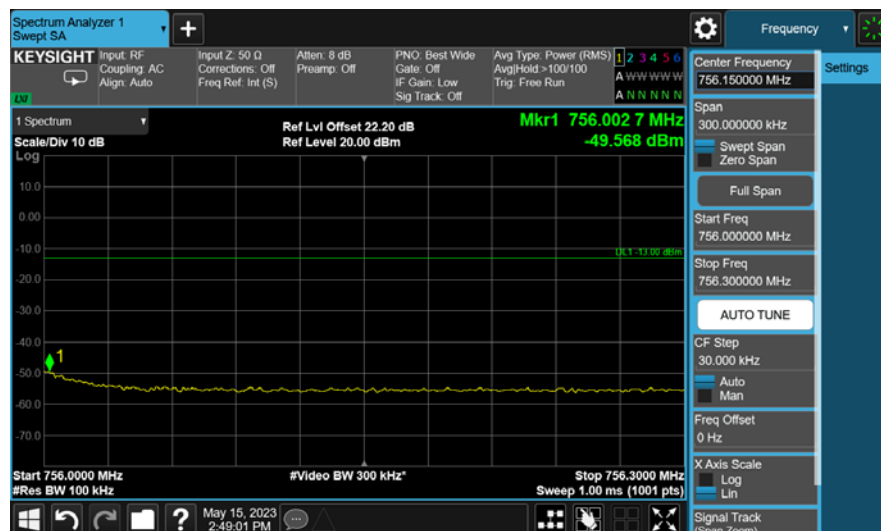


### Out-of-band emissions

#### DL\_Upper 700MHz Band\_GSM input\_Upper band edge\_pre-AGC



#### DL\_Upper 700MHz Band\_GSM input\_Upper band edge\_10dB above AGC

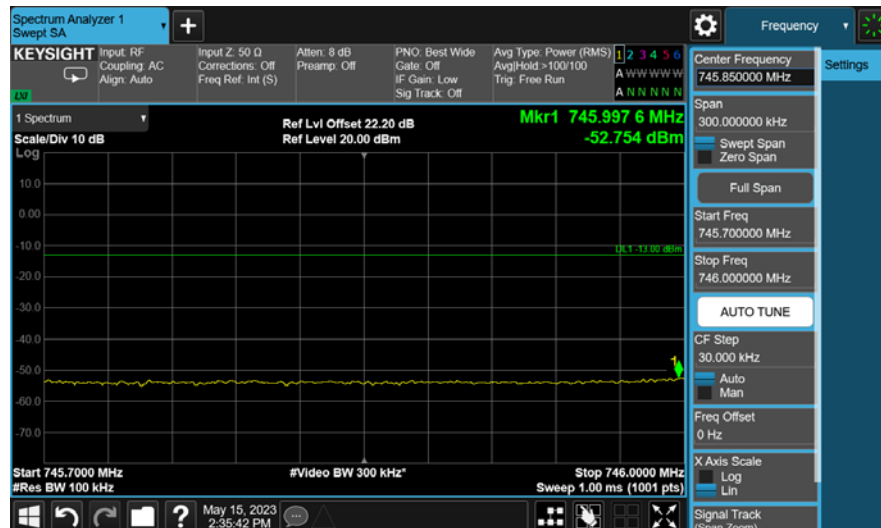


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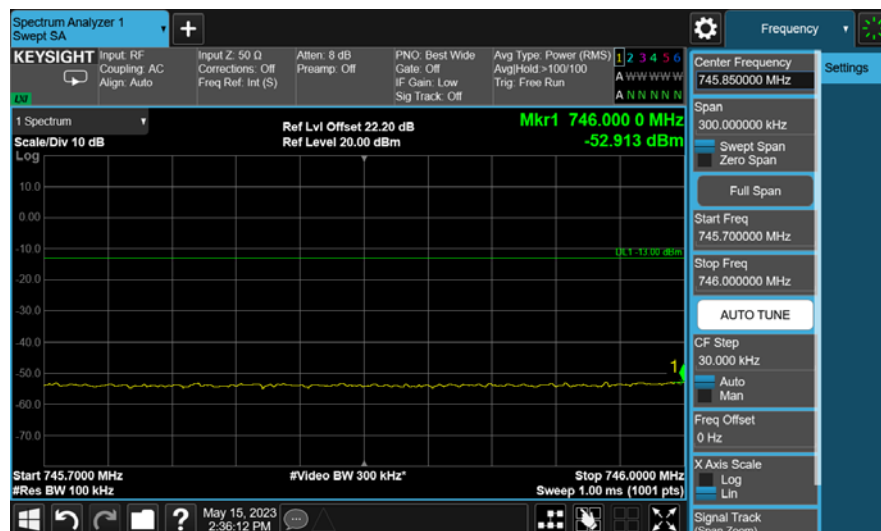
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### Out-of-band emissions

DL\_Upper 700MHz Band\_1.25MHz AWGN input\_Lower band edge\_pre-AGC



DL\_Upper 700MHz Band\_1.25MHz AWGN input\_Lower band edge\_10dB above AGC

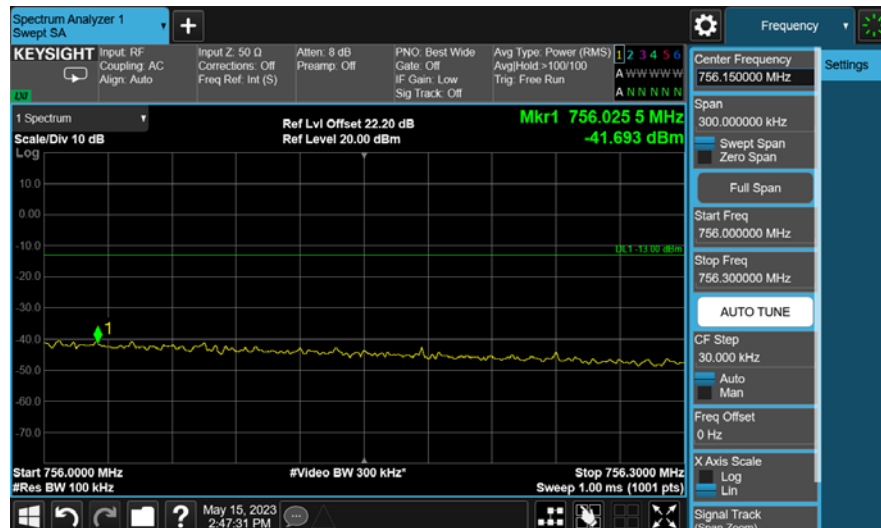


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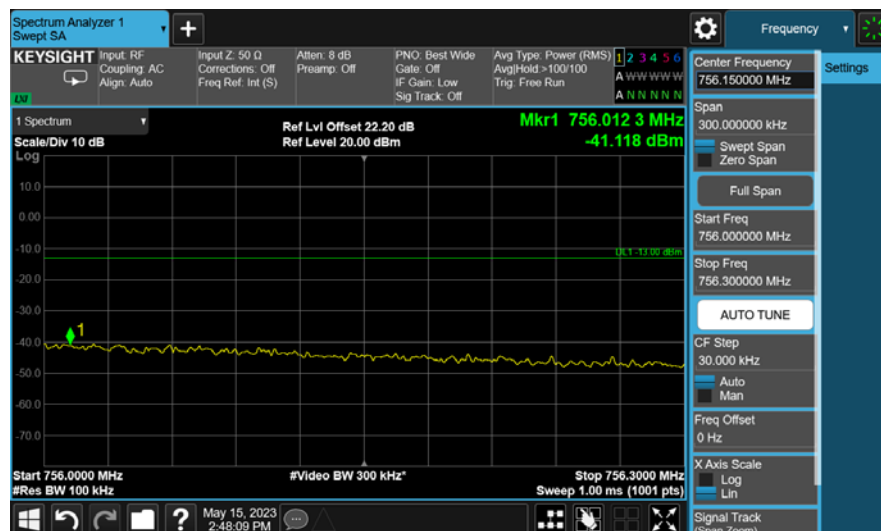
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### Out-of-band emissions

DL\_Upper 700MHz Band\_1.25MHz AWGN input\_Upper band edge\_pre-AGC



DL\_Upper 700MHz Band\_1.25MHz AWGN input\_Upper band edge\_10dB above AGC



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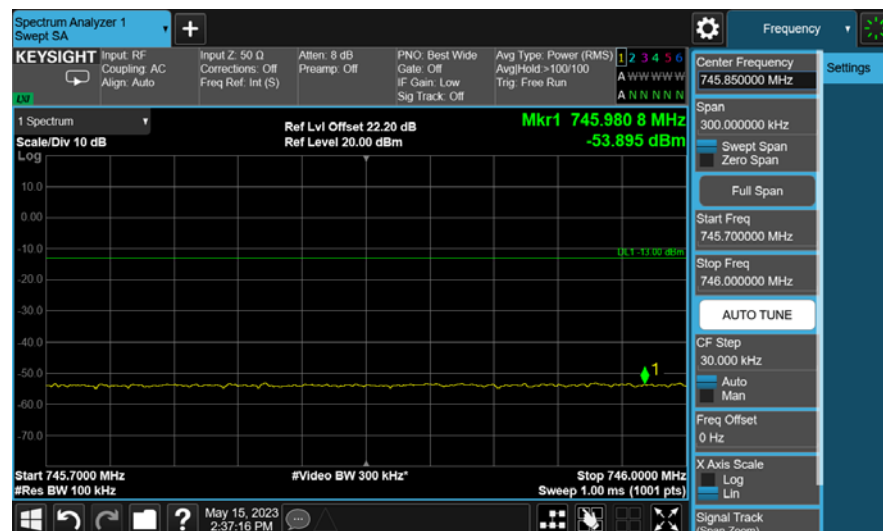
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### Out-of-band emissions

DL\_Upper 700MHz Band\_4.1MHz AWGN input\_Lower band edge\_pre-AGC



DL\_Upper 700MHz Band\_4.1MHz AWGN input\_Lower band edge\_10dB above AGC



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