

# Appendix -

## Test Data and Result for report

### GZCR240300025402

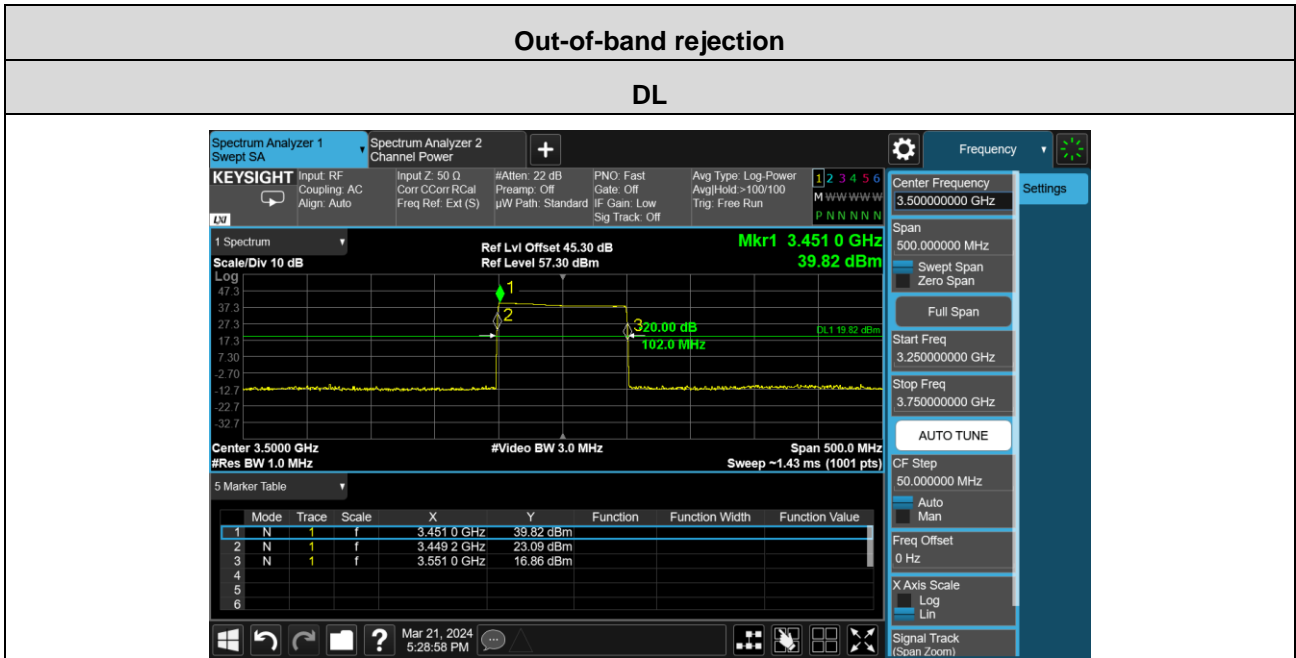


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Remark: Manufacture declared the product support 2X2 MIMO with identical PCB layout/component use/Tune up that make sure each antenna port with identical RF output, so the test only performed at one of the antenna port in this report.

**1 Out-of-band rejection**



The peak of the frequency response f0 is 3451.0MHz.

The frequency point f0 with the highest power level fall in the CMRS band, EUT is compiled the KDB 935210 D05 Signal Booster Measurements v01r04 Out-of-band rejection verification test requirement.



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**2 Input versus Output comparison**

Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
DL	4.1MHz AWGN	MCH	Pre-AGC	PASS
			3dB above AGC	PASS
	100MHz AWGN	MCH	Pre-AGC	PASS
			3dB above AGC	PASS
	GSM	MCH	Pre-AGC	PASS
			3dB above AGC	PASS

Remark:  
Compare the spectral plot of the input signal to the output signal affirm that they are similar (in passband and roll off characteristic features and relative spectral locations). The test result complies with the requirement.

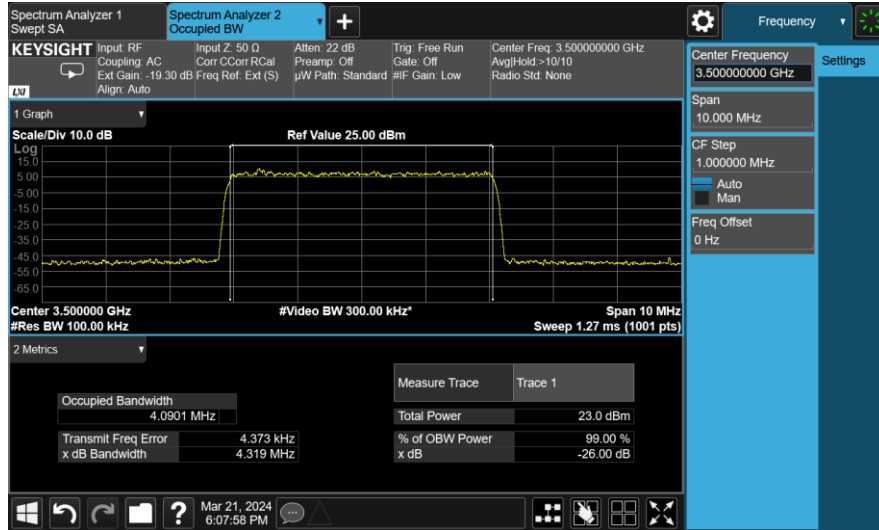


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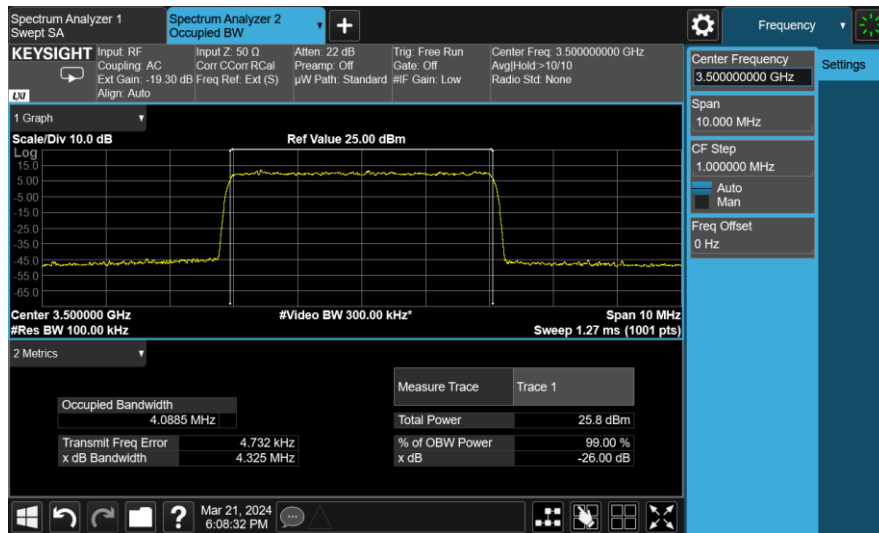
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99% OBW

DL\_4.1MHz AWGN\_MCH\_Input\_Pre-AGC



DL\_4.1MHz AWGN\_MCH\_Input\_3dB above AGC

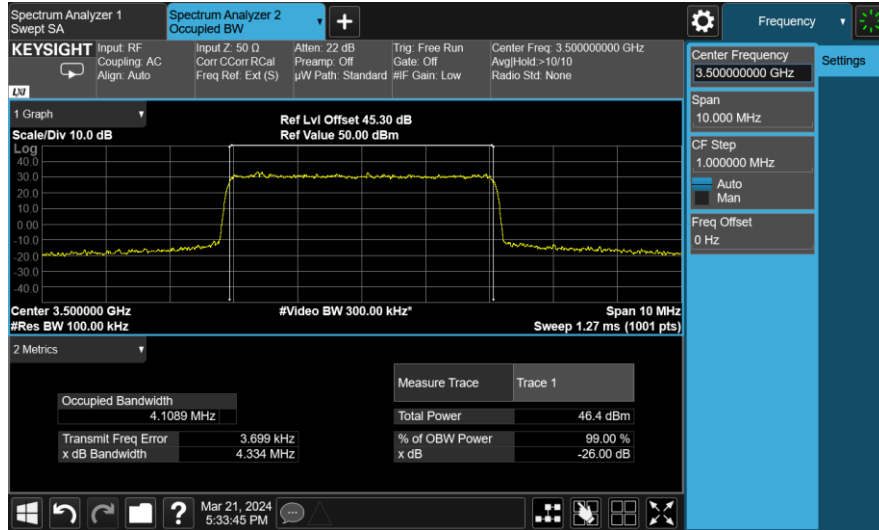


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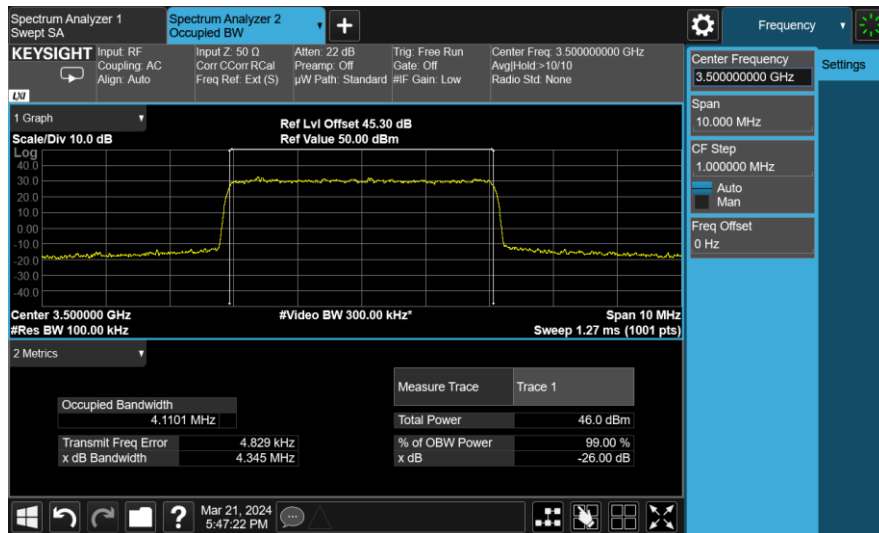
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99% OBW

DL\_4.1MHz AWGN\_MCH\_Output\_Pre-AGC



DL\_4.1MHz AWGN\_MCH\_Output\_3dB above AGC

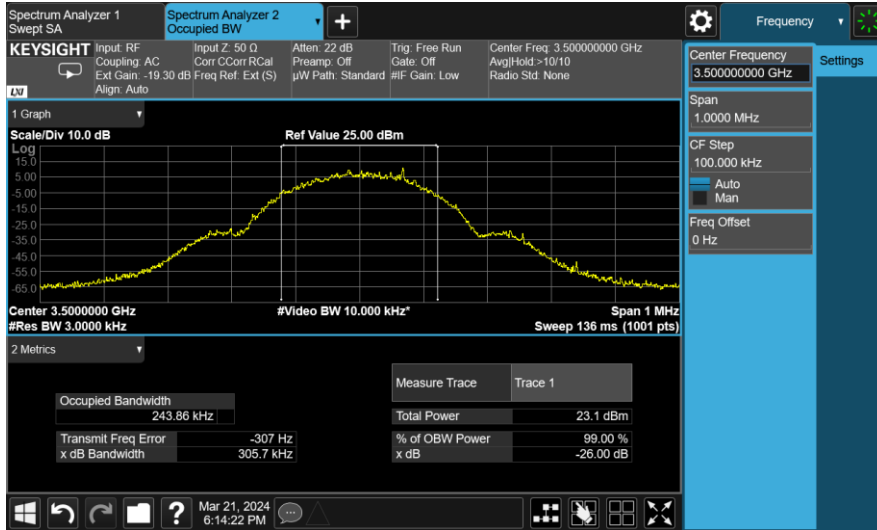


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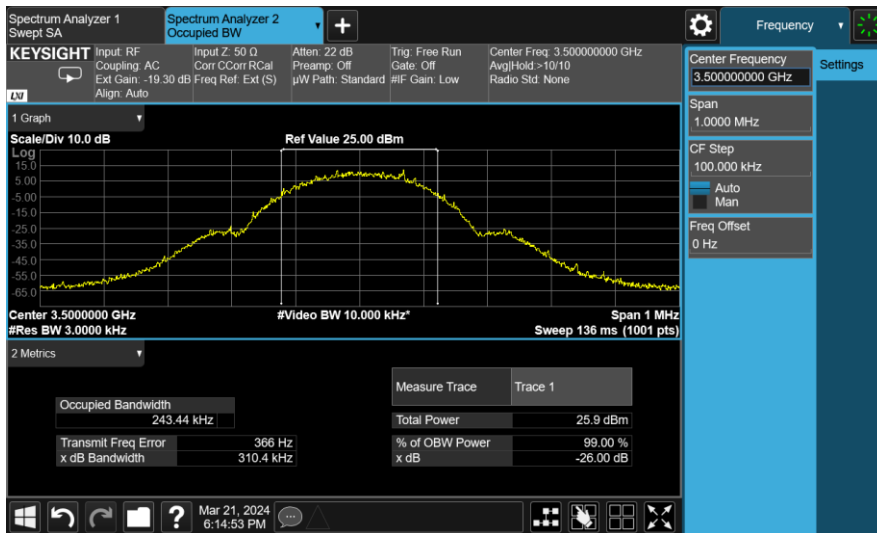
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### 99% OBW

#### DL\_GSM\_MCH\_Input\_Pre-AGC



#### DL\_GSM\_MCH\_Input\_3dB above AGC

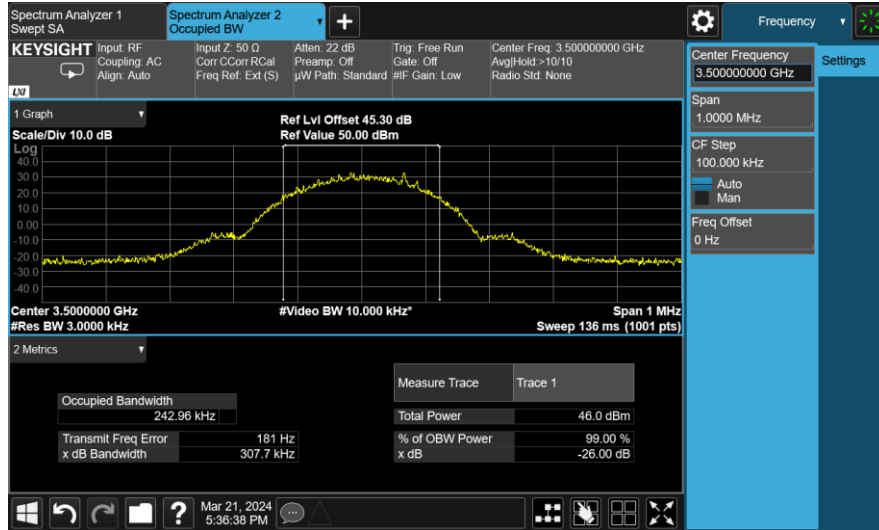


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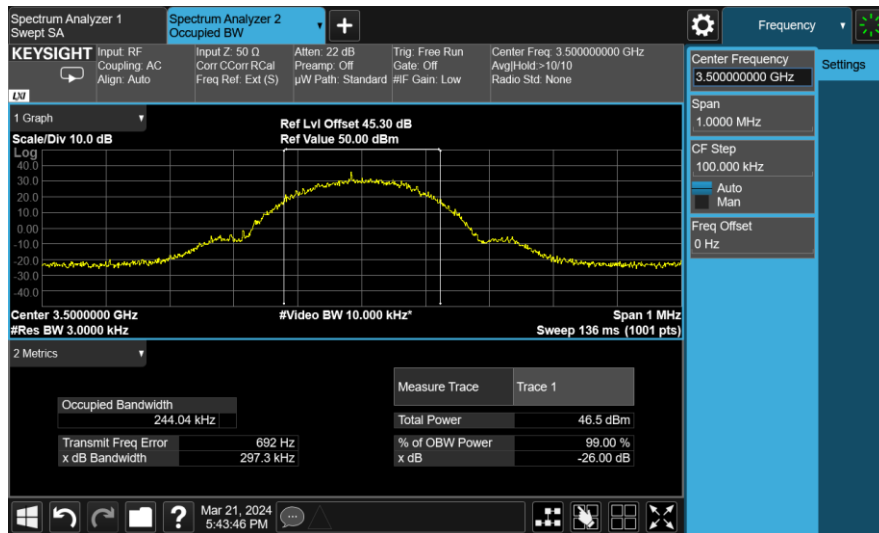
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### 99% OBW

#### DL\_GSM\_MCH\_Output\_Pre-AGC



#### DL\_GSM\_MCH\_Output\_3dB above AGC

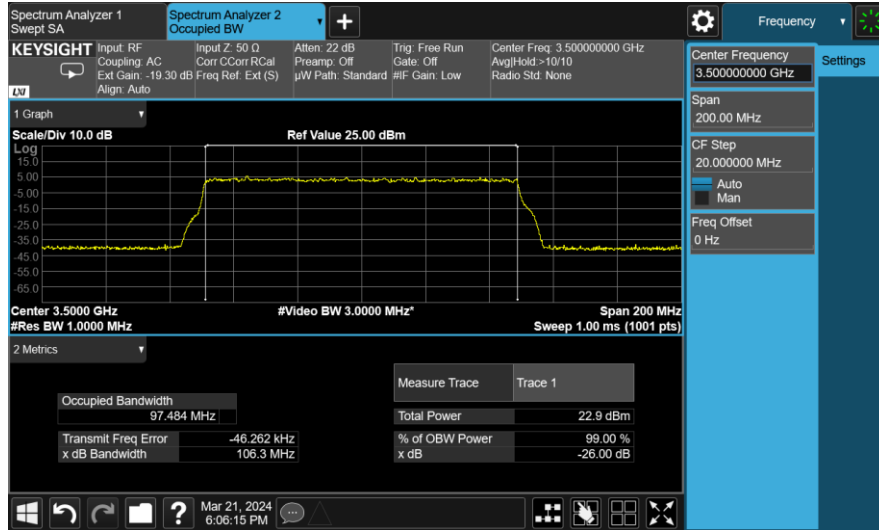


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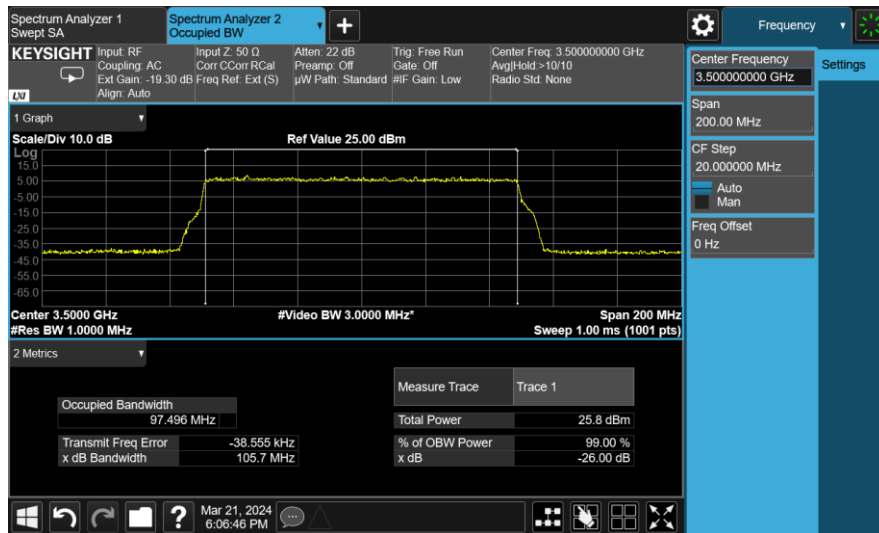
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### 99% OBW

#### DL\_100MHz AWGN\_MCH\_Input\_Pre-AGC



#### DL\_100MHz AWGN\_MCH\_Input\_3dB above AGC



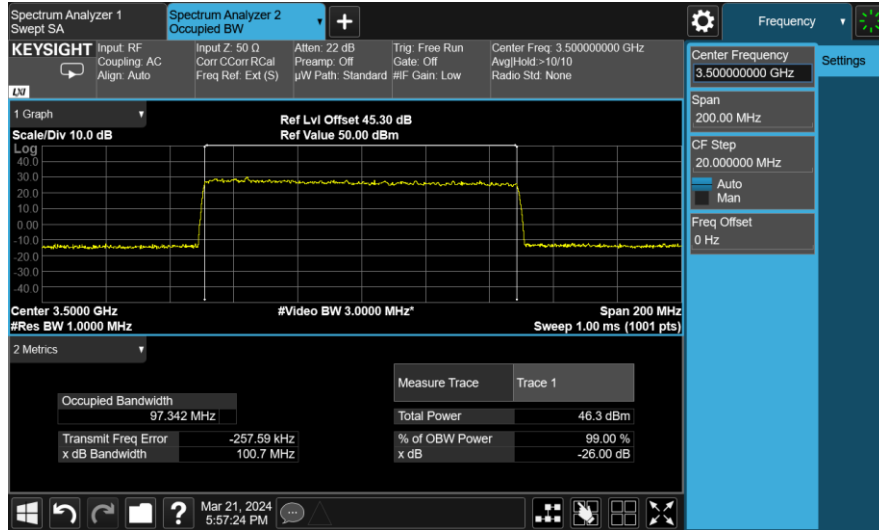
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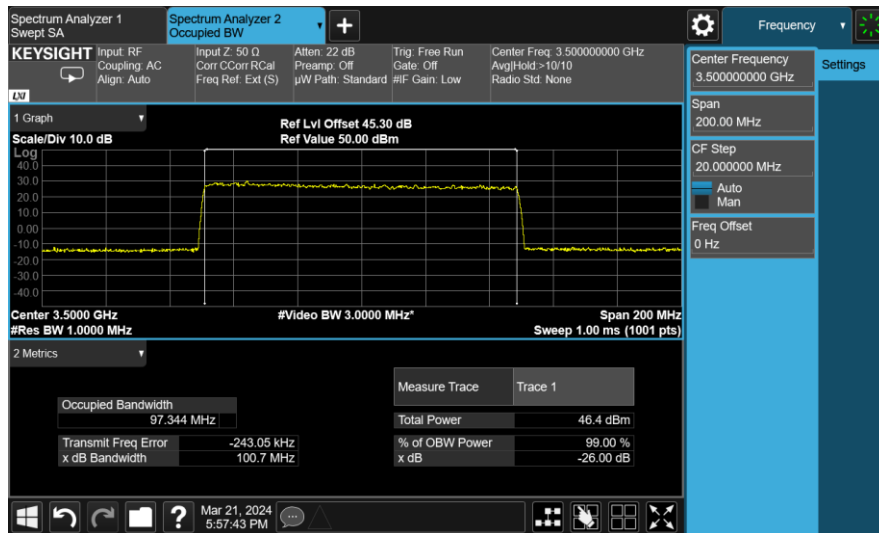


99% OBW

DL\_100MHz AWGN\_MCH\_Output\_Pre-AGC



DL\_100MHz AWGN\_MCH\_Output\_3dB above AGC



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**3 Output power and amplifier/booster gain**

Mean output power and gain									
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Input power (dBm)	Output Power (dBm)	SISO EIRP (W)	Total EIRP (W)	Gain (dB)	Verdict
DL	3451.0	4.1MHz AWGN	Pre-AGC	23.00	45.21	104.96	419.76	22.21	PASS
			3dB above AGC	26.00	45.29	106.91	427.57	/	PASS
		100MHz AWGN	Pre-AGC	23.00	45.59	114.56	458.15	22.59	PASS
			3dB above AGC	26.00	45.67	116.69	466.66	/	PASS
		GSM	Pre-AGC	23.00	45.17	104.00	415.92	22.17	PASS
			3dB above AGC	26.00	45.32	107.65	430.53	/	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 5dBi declared by the manufacturer, the directional gain =  $G_{ANT} + 10 \log(N_{ANT})$  dBi = 8dBi.

Mean output power							
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	SISO EIRP (W/MHz)	Total EIRP (W/MHz)	Verdict
DL	3451.0	4.1MHz AWGN	Pre-AGC	39.74	29.79	119.13	PASS
			3dB above AGC	39.69	29.45	117.77	PASS
		100MHz AWGN	Pre-AGC	27.54	1.80	7.18	PASS
			3dB above AGC	27.71	1.87	7.47	PASS
		GSM	Pre-AGC	45.17	104.00	415.93	PASS
			3dB above AGC	45.32	107.65	430.53	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 5dBi declared by the manufacturer, the directional gain =  $G_{ANT} + 10 \log(N_{ANT})$  dBi = 8dBi.
- The output power is limited to an EIRP of 1640W/MHz.



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Peak-to-average ratio (PAR)						
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	PAR (dB)	Limit (dB)	Verdict
DL	3451.0	4.1MHz AWGN	Pre-AGC	9.93	≤13	PASS
			3dB above AGC	9.97		PASS
		100MHz AWGN	Pre-AGC	8.80		PASS
			3dB above AGC	8.79		PASS

**Remark:**

GSM signals are not similar to a noise-like signal, the PAR of a GSM signal is very low and not displayed in this report.

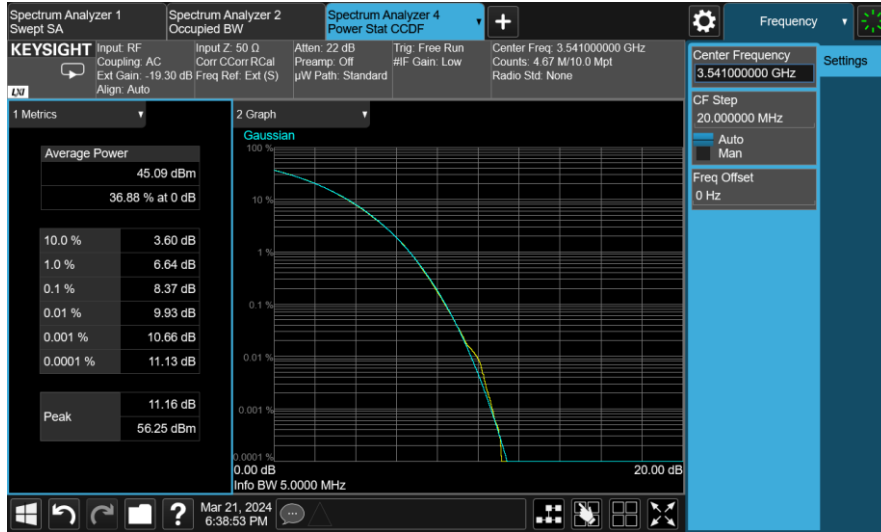


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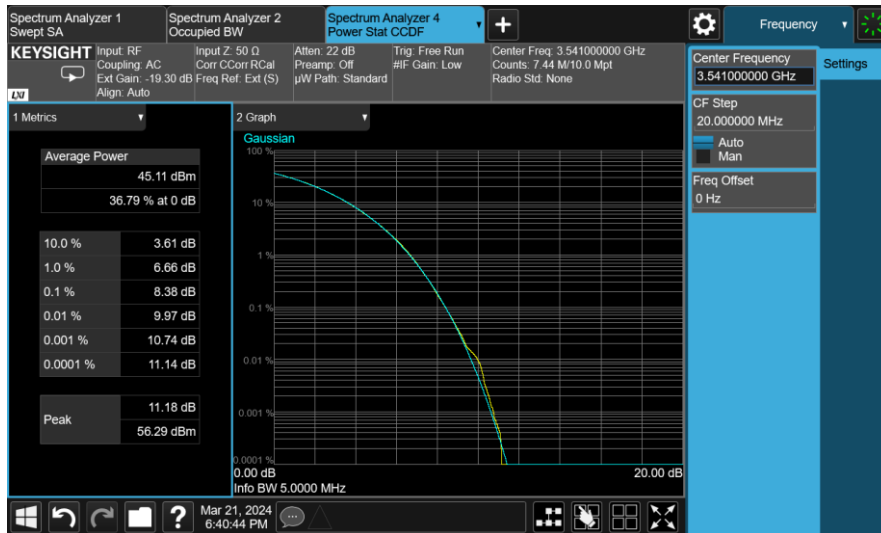
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Peak-to-average ratio (PAR)

DL\_4.1MHz AWGN\_Pre-AGC



DL\_4.1MHz AWGN\_3dB above AGC

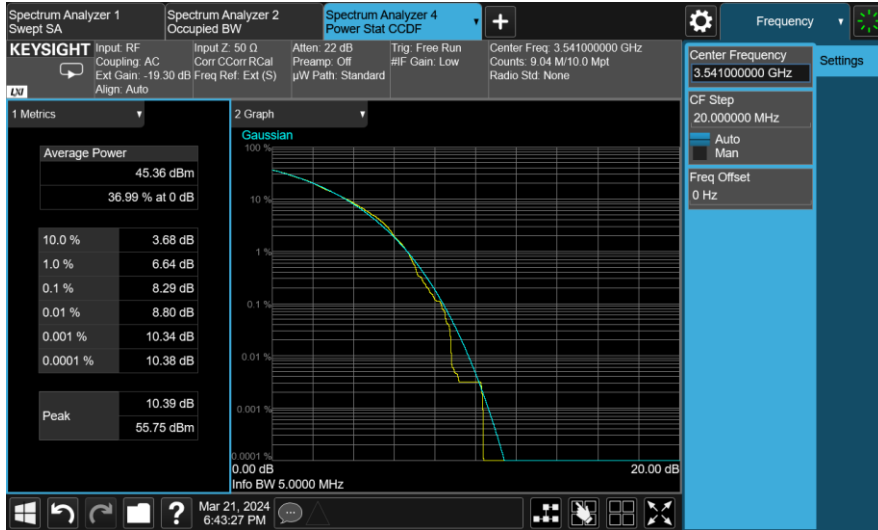


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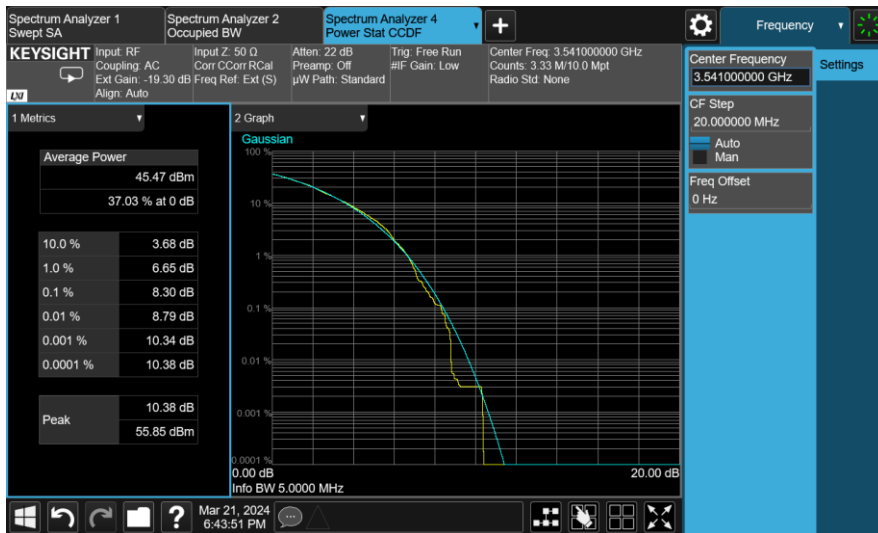
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Peak-to-average ratio (PAR)

DL\_100MHz AWGN\_Pre-AGC



DL\_100MHz AWGN\_3dB above AGC



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**4 Out-of-band/out-of-block(including intermodulation) emissions**

Out-of-band/out-of-block(including intermodulation) emissions								
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)		Limit (dBm/MHz)	Verdict
					/200kHz	/1MHz		
DL	LCH	4.1MHz AWGN	One signal input	Pre-AGC	-25.38	-18.39	≤-16	PASS
					/	-17.34		PASS
				3dB above AGC	-25.36	-18.37		PASS
					/	-17.21		PASS
			Two signals input	Pre-AGC	-28.11	-21.12		PASS
					/	-17.91		PASS
				3dB above AGC	-27.77	-20.78		PASS
					/	-17.90		PASS
	HCH		One signal input	Pre-AGC	-27.03	-20.04		PASS
					/	-17.01		PASS
				3dB above AGC	-27.20	-20.21		PASS
					/	-17.13		PASS
			Two signals input	Pre-AGC	-29.88	-22.89		PASS
					/	18.26		PASS
				3dB above AGC	-28.39	-21.40		PASS
					/	18.26		PASS

Remark:  
 1. The level in 1MHz RBW= the level in 200kHz RBW+ 10lg(1000/200).  
 2. For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by 10lg(2) =3dB, so the limit was calculated to show -16dBm/MHz in order to determine the test result conveniently.



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Out-of-band/out-of-block(including intermodulation) emissions							
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm/MHz)	Limit (dBm/MHz)	Verdict
DL	LCH	100MHz AWGN	One signal input	Pre-AGC	-17.51	≤-16	PASS
				3dB above AGC	-17.26		PASS
			Two signals input	Pre-AGC	-17.89		PASS
				3dB above AGC	-18.06		PASS
	HCH		One signal input	Pre-AGC	-16.25		PASS
				3dB above AGC	-16.56		PASS
			Two signals input	Pre-AGC	-18.43		PASS
				3dB above AGC	-18.45		PASS

**Remark:**

For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by  $10\lg(2) = 3\text{dB}$ , so the limit was calculated to show -16dBm/MHz in order to determine the test result conveniently.

Out-of-band/out-of-block(including intermodulation) emissions								
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)		Limit (dBm/MHz)	Verdict
					/10kHz	/1MHz		
DL	LCH	GSM	One signal input	Pre-AGC	-37.75	-17.75	≤-16	PASS
				3dB above AGC	-37.85	-17.85		PASS
			Two signals input	Pre-AGC	-37.17	-17.17		PASS
				3dB above AGC	-37.34	-17.34		PASS
	HCH		One signal input	Pre-AGC	-39.32	-19.32		PASS
				3dB above AGC	-39.48	-19.48		PASS
			Two signals input	Pre-AGC	-39.64	-19.64		PASS
				3dB above AGC	-39.69	-19.69		PASS

**Remark:**

- The level in 1MHz RBW= the level in 10kHz RBW+  $10\lg(1000/10)$ .
- For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by  $10\lg(2) = 3\text{dB}$ , so the limit was calculated to show -16dBm/MHz in order to determine the test result conveniently.



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Out-of-band/out-of-block(including intermodulation) emissions								
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)		Limit (dBm/MHz)	Verdict
					/100kHz	/1MHz		
DL	LCH	GSM	One signal input	Pre-AGC	-33.11	-23.11	≤-16	PASS
				3dB above AGC	-33.09	-23.09		PASS
			Two signals input	Pre-AGC	-31.50	-21.50		PASS
				3dB above AGC	-31.33	-21.33		PASS
	HCH		One signal input	Pre-AGC	-33.91	-23.91		PASS
				3dB above AGC	-33.94	-23.94		PASS
			Two signals input	Pre-AGC	-29.72	-19.72		PASS
				3dB above AGC	-29.74	-19.74		PASS

Remark:  
 1. The level in 1MHz RBW= the level in 100kHz RBW+ 10lg(1000/100).  
 2. For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by 10lg(2) =3dB, so the limit was calculated to show -16dBm/MHz in order to determine the test result conveniently.



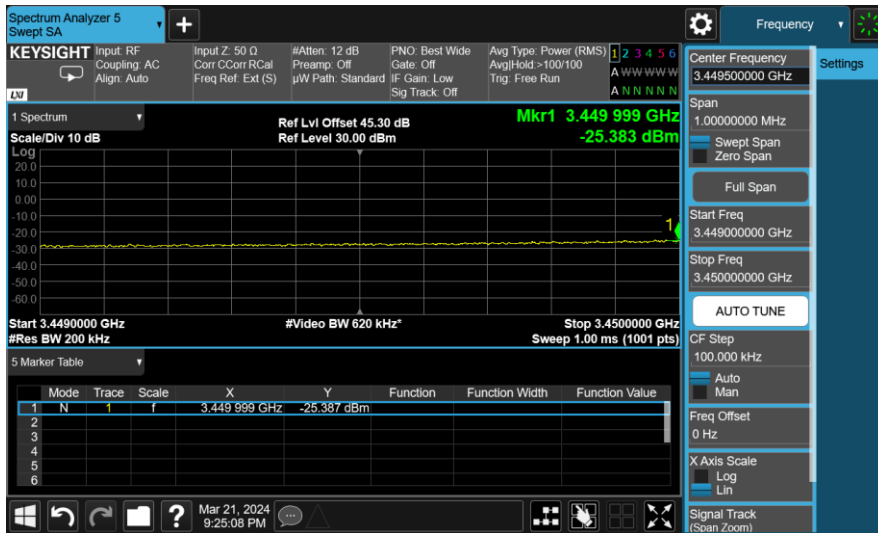
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Out-of-band/out-of-block emissions

DL\_4.1MHz AWGN\_LCH\_a single test signal\_Pre-AGC 1



DL\_4.1MHz AWGN\_LCH\_a single test signal\_Pre-AGC 2

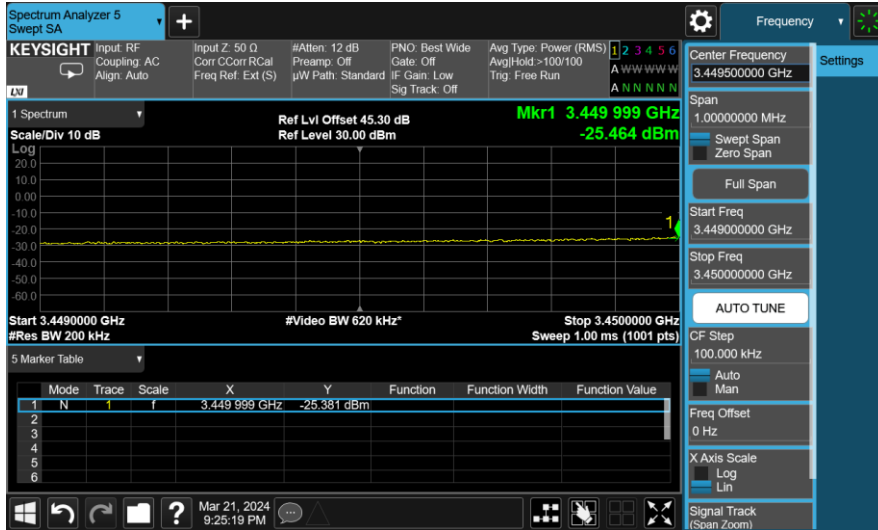


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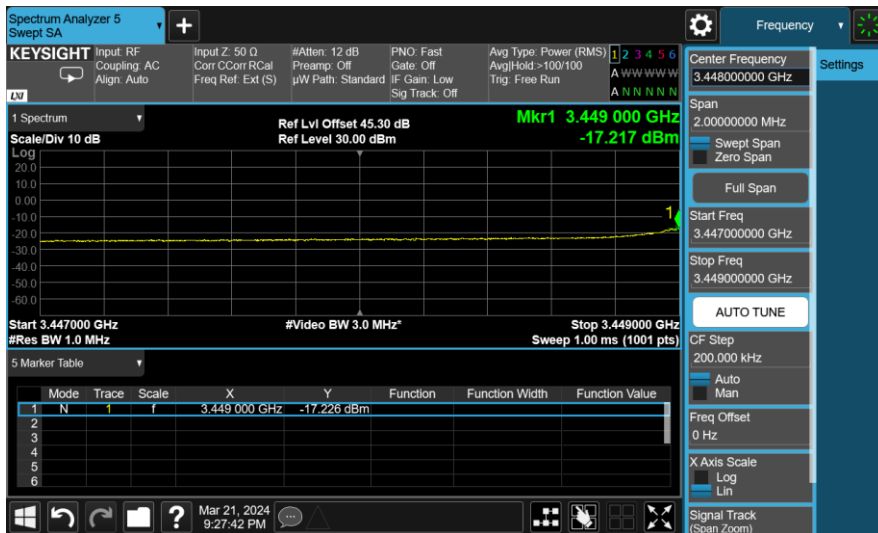
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Out-of-band/out-of-block emissions

DL\_4.1MHz AWGN\_LCH\_a single test signal\_3dB above AGC 1



DL\_4.1MHz AWGN\_LCH\_a single test signal\_3dB above AGC 2

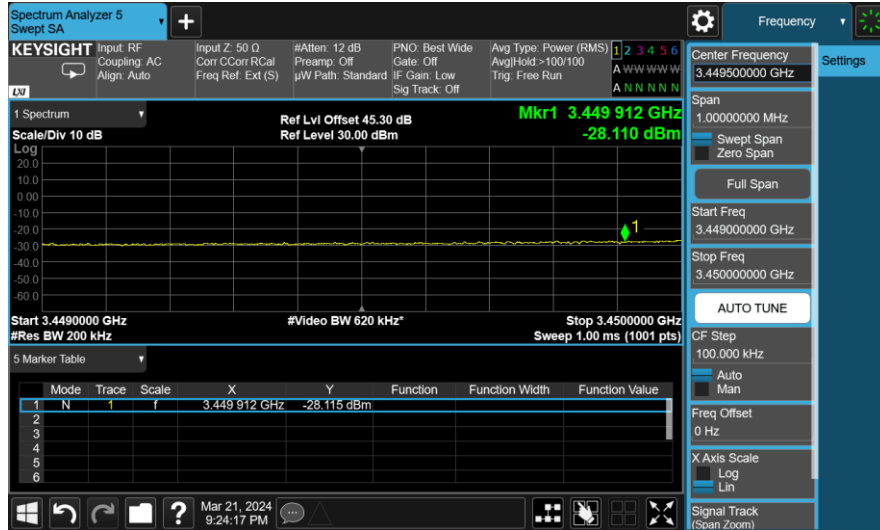


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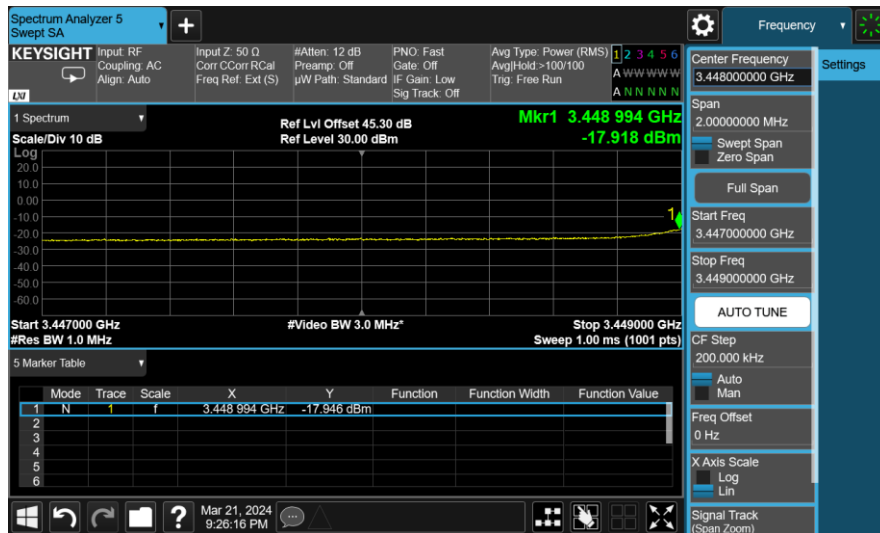
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Out-of-band/out-of-block emissions

DL\_4.1MHz AWGN\_LCH\_two adjacent test signals\_Pre-AGC 1



DL\_4.1MHz AWGN\_LCH\_two adjacent test signals\_Pre-AGC 2

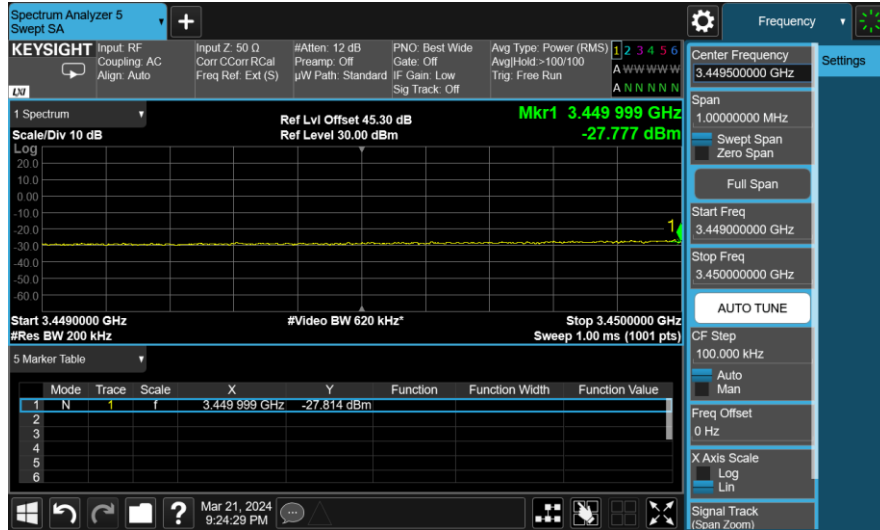


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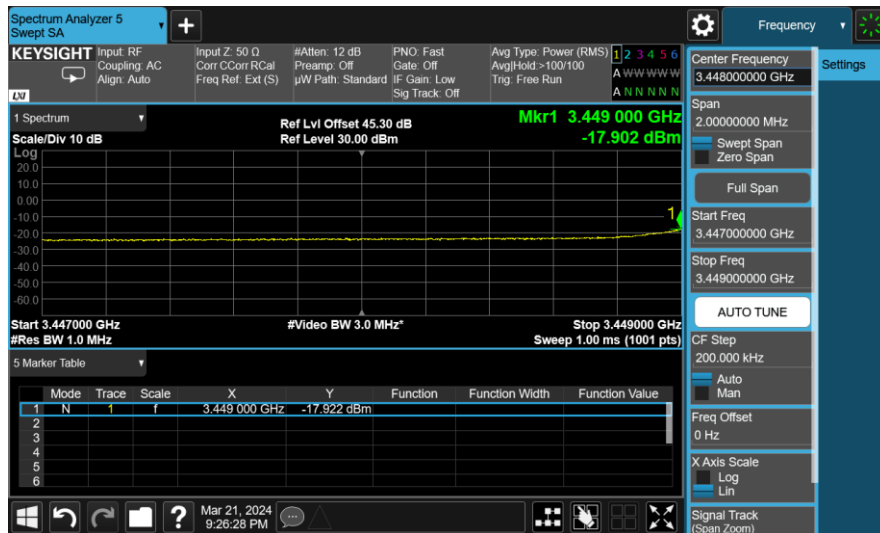
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Out-of-band/out-of-block emissions

DL\_4.1MHz AWGN\_LCH\_two adjacent test signals\_3dB above AGC 1



DL\_4.1MHz AWGN\_LCH\_two adjacent test signals\_3dB above AGC 2

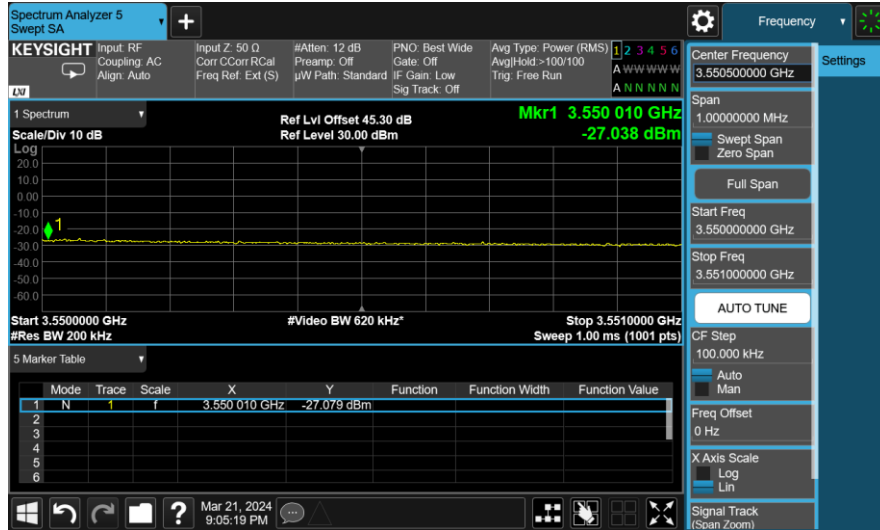


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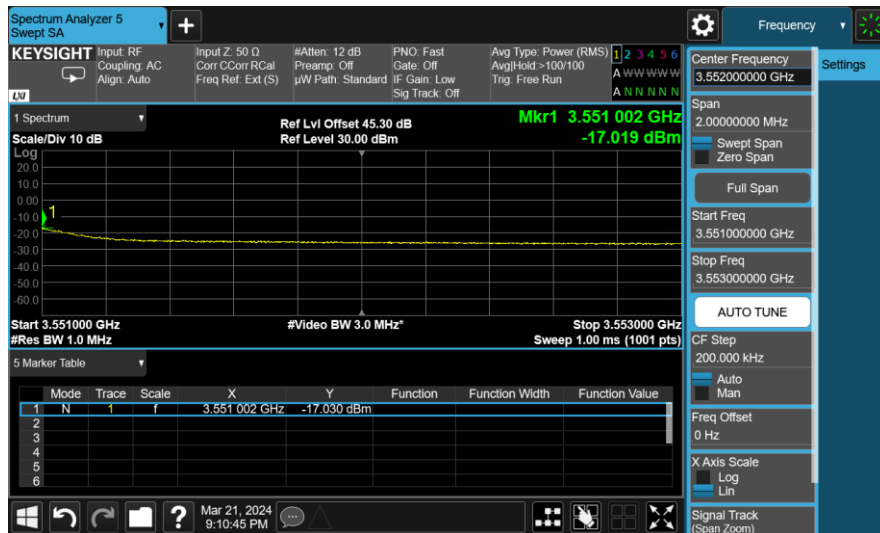
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Out-of-band/out-of-block emissions

DL\_4.1MHz AWGN\_HCH\_a single test signal\_Pre-AGC 1



DL\_4.1MHz AWGN\_HCH\_a single test signal\_Pre-AGC 2

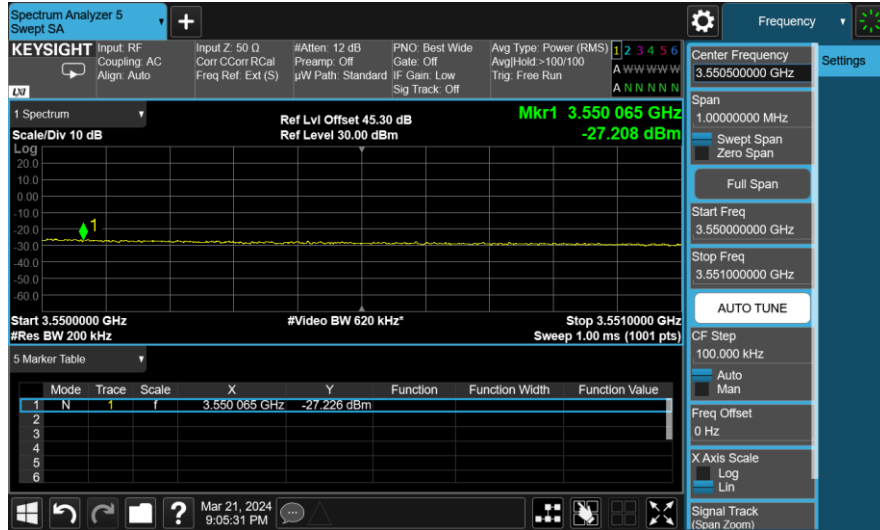


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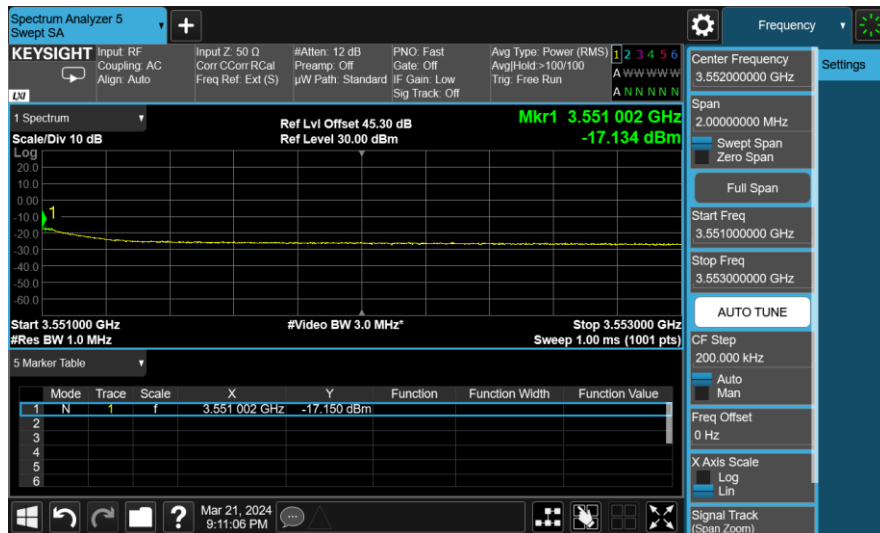
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Out-of-band/out-of-block emissions

DL\_4.1MHz AWGN\_HCH\_a single test signal\_3dB above AGC 1



DL\_4.1MHz AWGN\_HCH\_a single test signal\_3dB above AGC 2

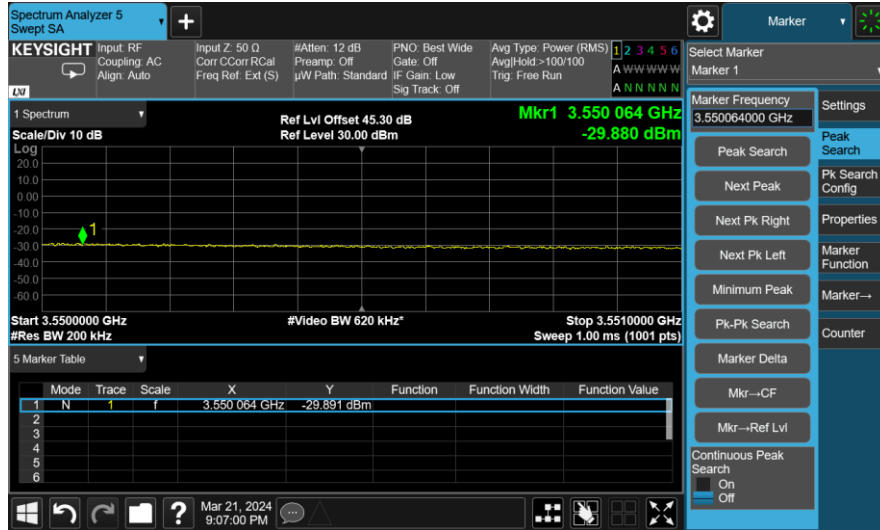


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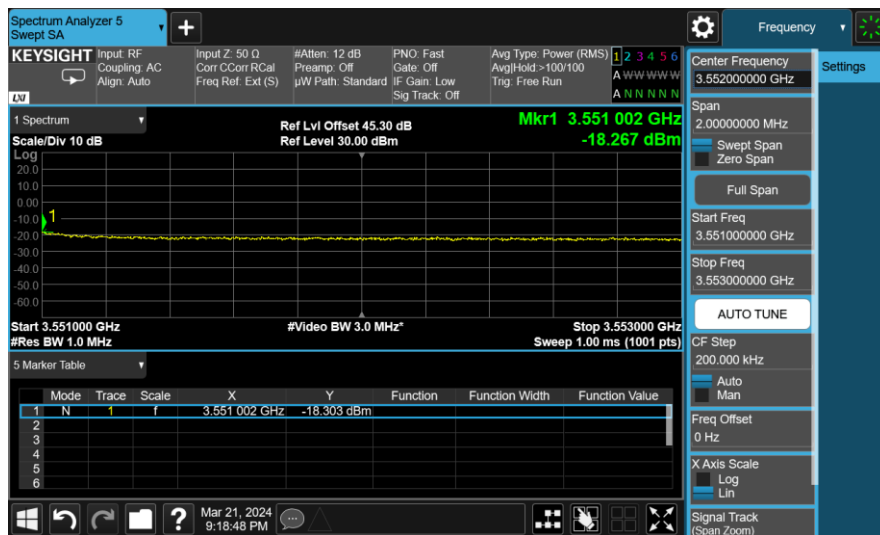
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Out-of-band/out-of-block emissions

DL\_4.1MHz AWGN\_HCH\_two adjacent test signals\_Pre-AGC 1



DL\_4.1MHz AWGN\_HCH\_two adjacent test signals\_Pre-AGC 2

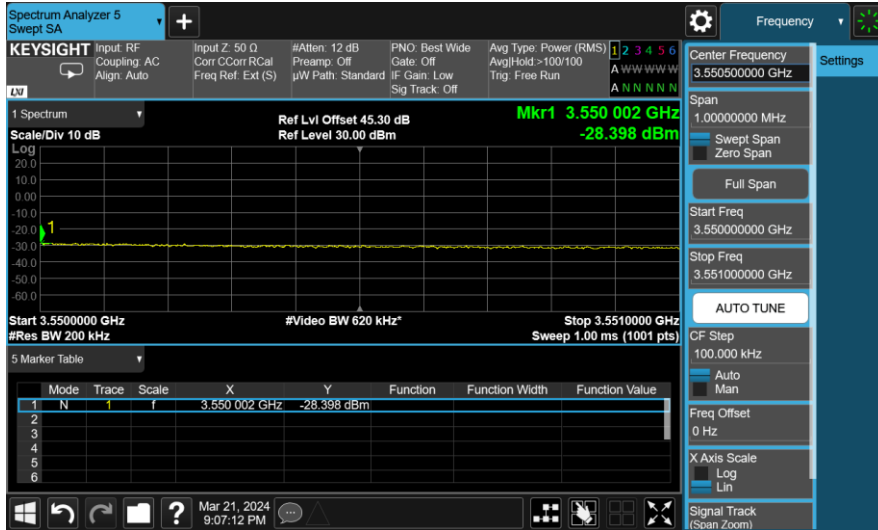


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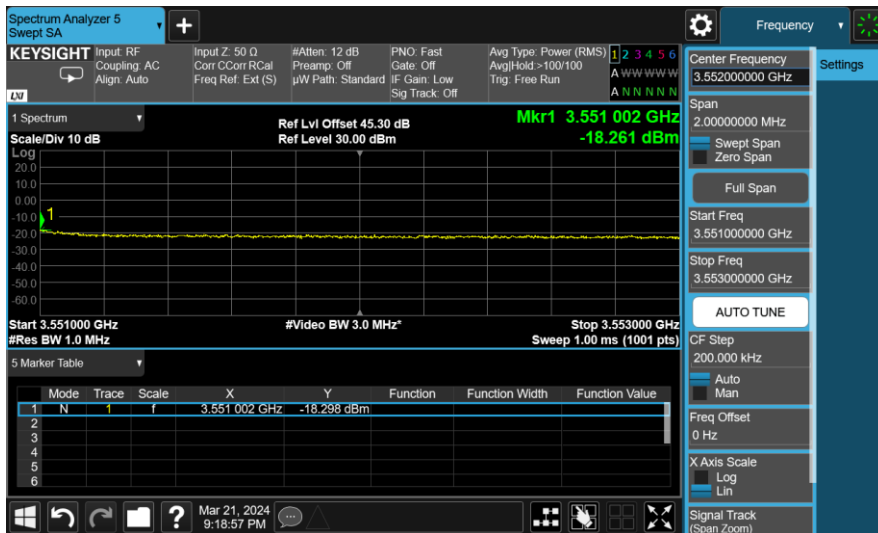
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Out-of-band/out-of-block emissions

DL\_4.1MHz AWGN\_HCH\_two adjacent test signals\_3dB above AGC 1



DL\_4.1MHz AWGN\_HCH\_two adjacent test signals\_3dB above AGC 2



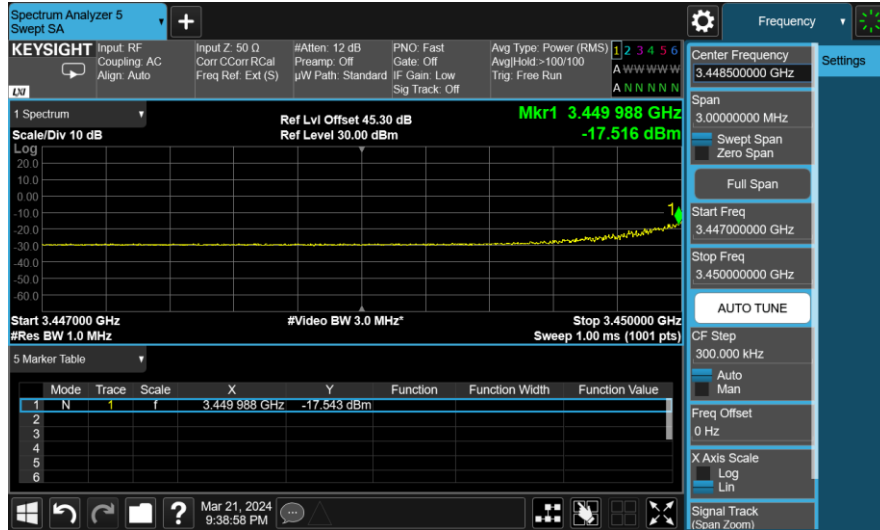
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Out-of-band/out-of-block emissions

DL\_100MHz AWGN\_LCH\_a single test signal\_Pre-AGC



DL\_100MHz AWGN\_LCH\_a single test signal\_3dB above AGC

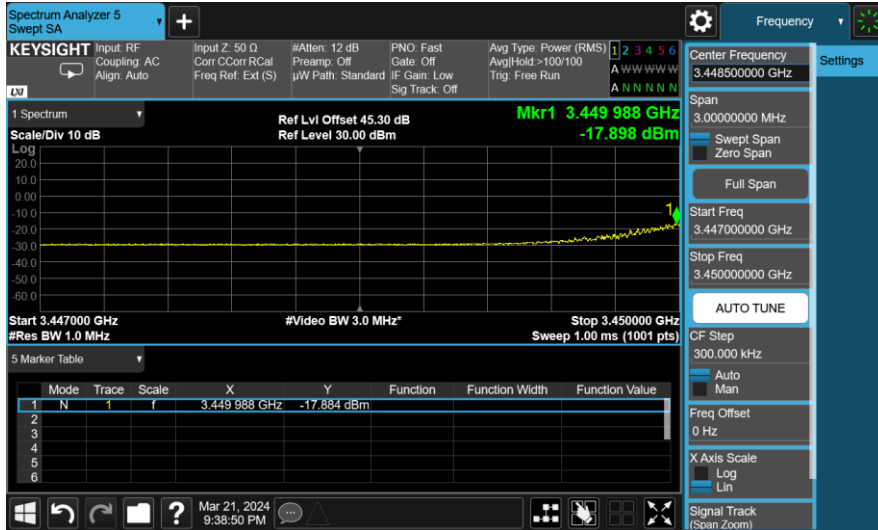


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Out-of-band/out-of-block emissions

DL\_100MHz AWGN\_LCH\_two adjacent test signals\_Pre-AGC



DL\_100MHz AWGN\_LCH\_two adjacent test signals\_3dB above AGC

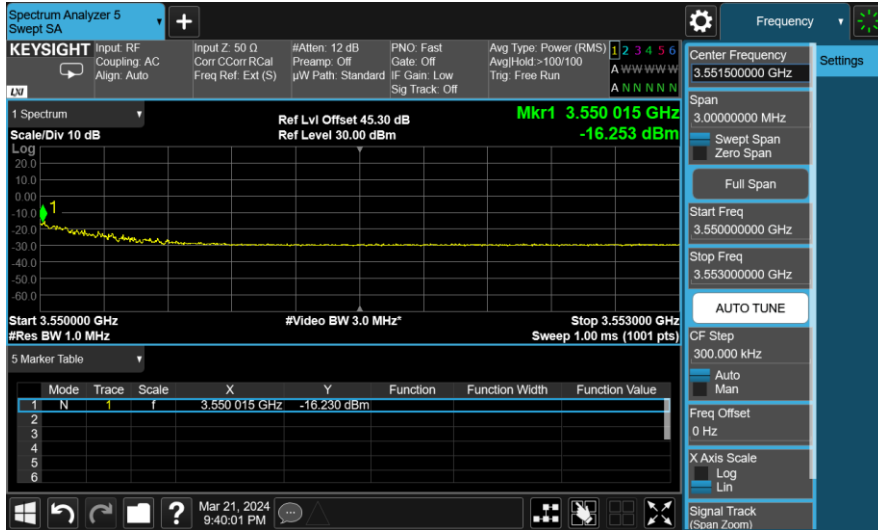


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Out-of-band/out-of-block emissions

DL\_100MHz AWGN\_HCH\_a single test signal\_Pre-AGC



DL\_100MHz AWGN\_HCH\_a single test signal\_3dB above AGC

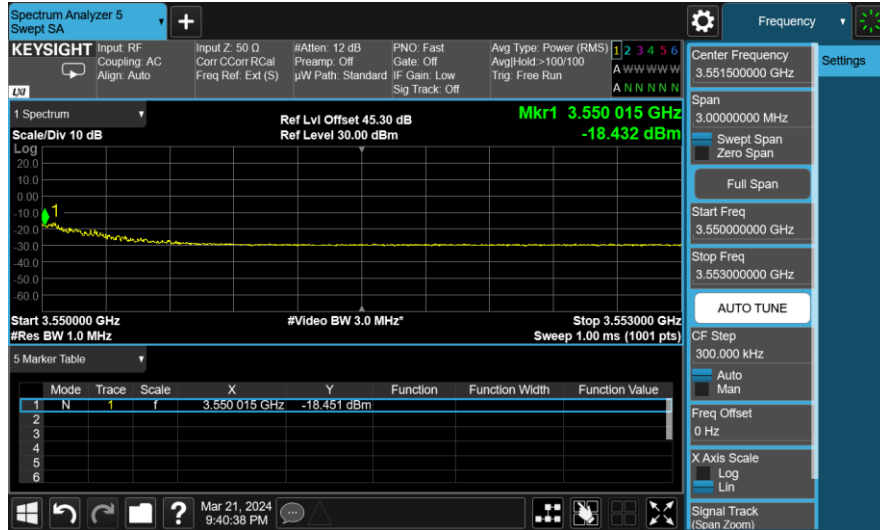


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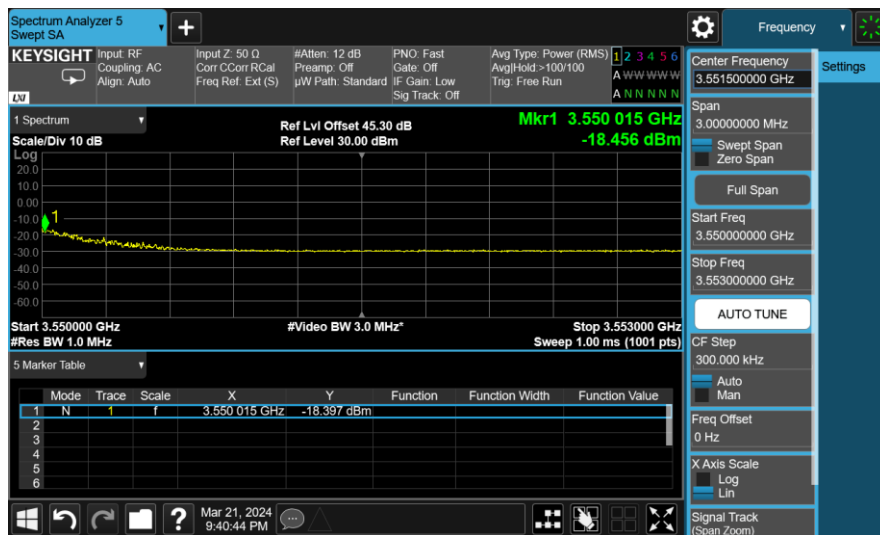
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Out-of-band/out-of-block emissions

DL\_100MHz AWGN\_HCH\_two adjacent test signals\_Pre-AGC



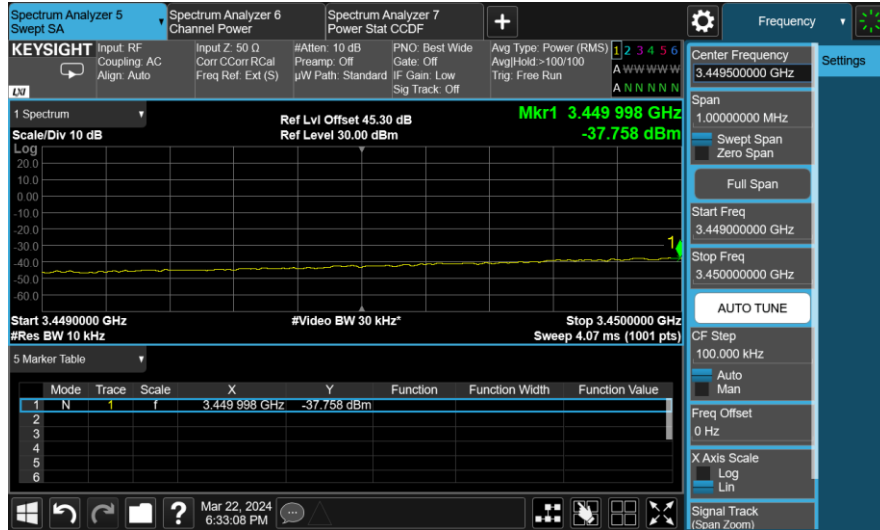
DL\_100MHz AWGN\_HCH\_two adjacent test signals\_3dB above AGC



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Out-of-band/out-of-block emissions

DL\_GSM\_LCH\_a single test signal\_Pre-AGC 1



DL\_GSM\_LCH\_a single test signal\_Pre-AGC 2



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