

# Appendix -

## Test Data and Result for report

**GZCR230300022404**

(Cellular band)

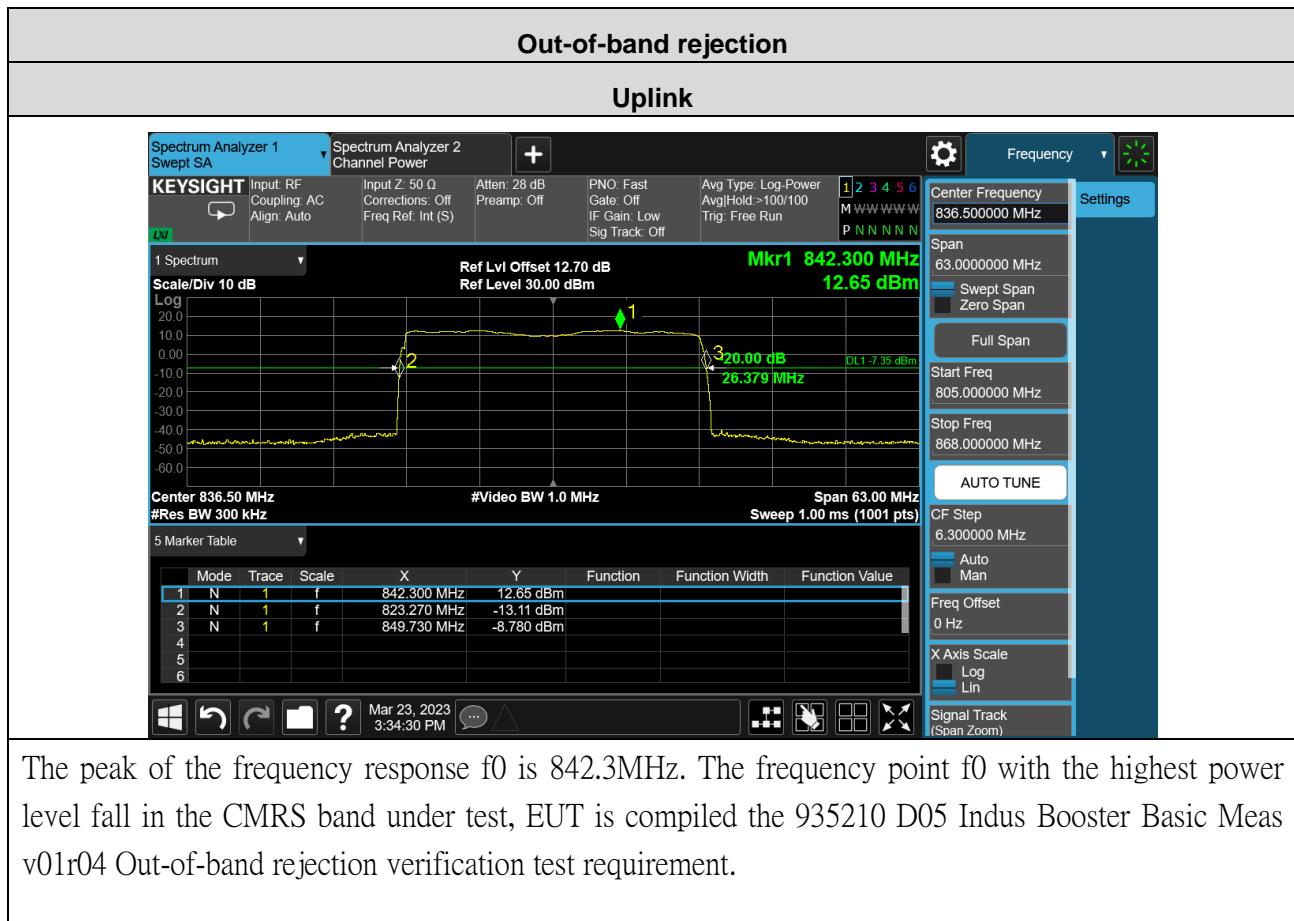
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## 1 Out-of-band rejection



The peak of the frequency response  $f_0$  is 842.3MHz. The frequency point  $f_0$  with the highest power level fall in the CMRS band under test, EUT is compiled the 935210 D05 Indus Booster Basic Meas 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
Uplink	5MHz AWGN	Middle Channel	Pre-AGC	PASS
			3dB above AGC	PASS
	100MHz AWGN	Middle Channel	Pre-AGC	PASS*
			3dB above AGC	PASS*
	GSM	Middle Channel	Pre-AGC	PASS
			3dB above AGC	PASS

Remark:

\*: The Cellular band supports maximum channel BW is 20MHz @ NR, so the output OBW was less than the input when 100MHz AWGN was as stimulus signal.

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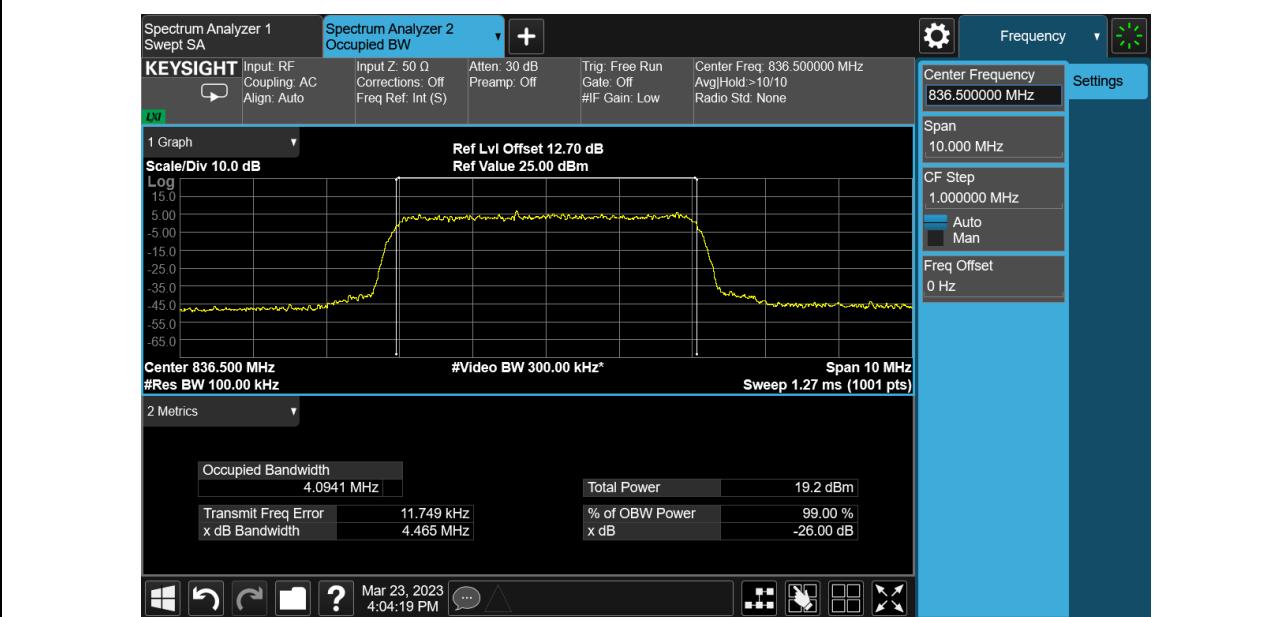
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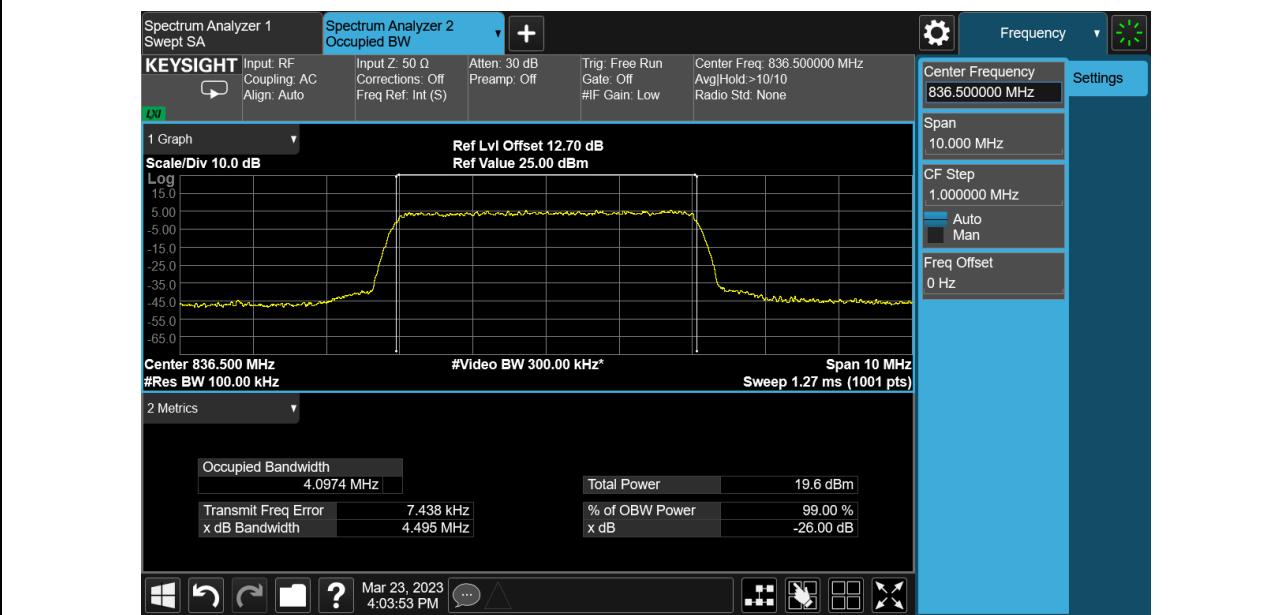
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99% OBW

## Uplink\_5MHz AWGN\_Middle Channel\_Output pre-AGC



## Uplink\_5MHz AWGN\_Middle Channel\_Output 3dB above AGC



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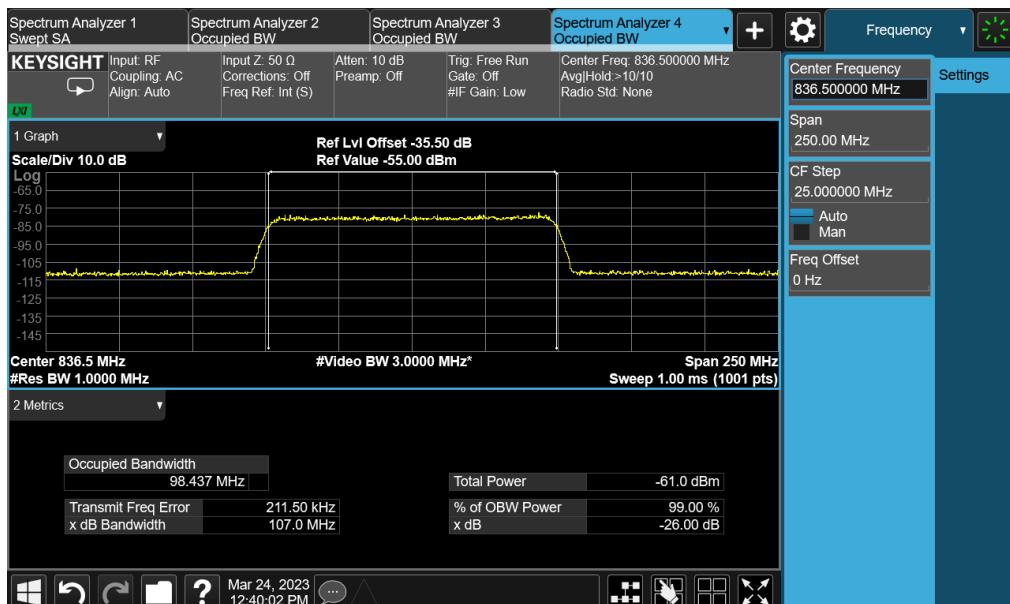
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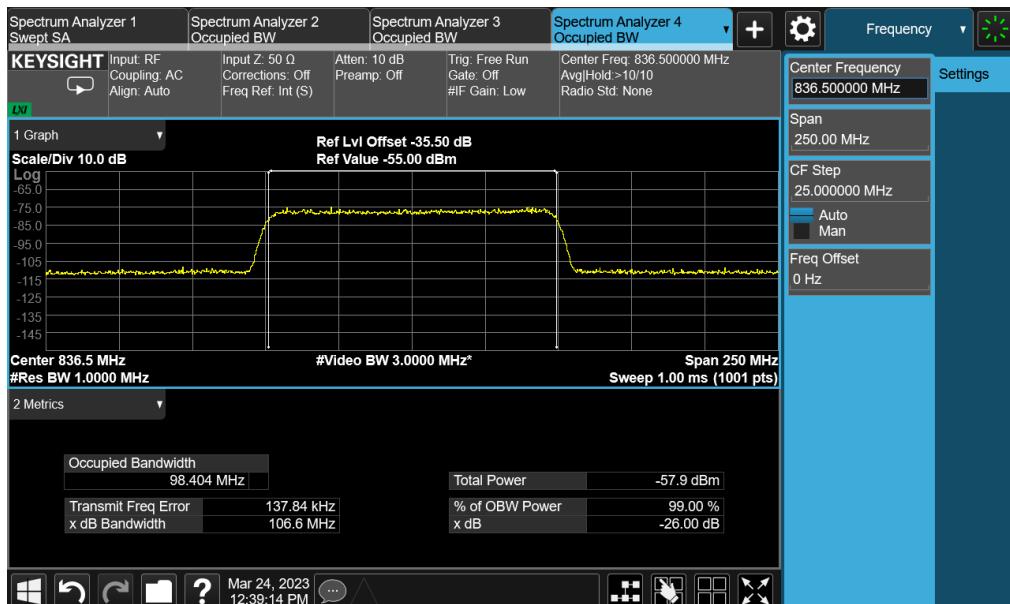
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## Uplink\_100MHz AWGN\_Middle Channel\_Input pre-AGC



## Uplink\_100MHz AWGN\_Middle Channel\_Input 3dB above AGC



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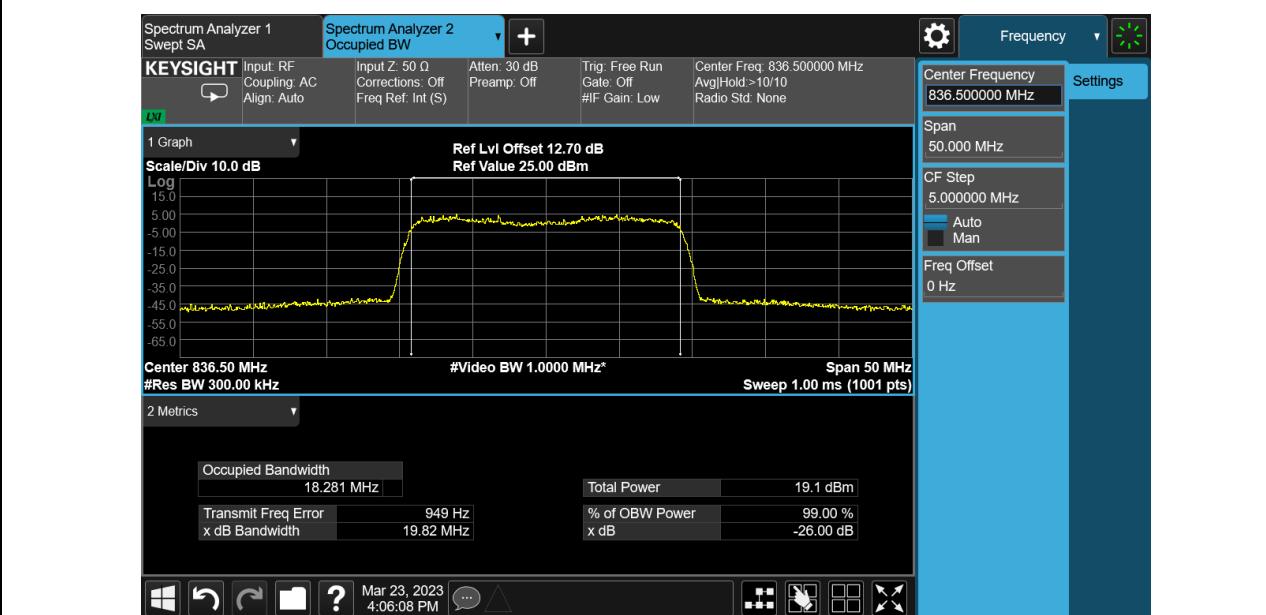
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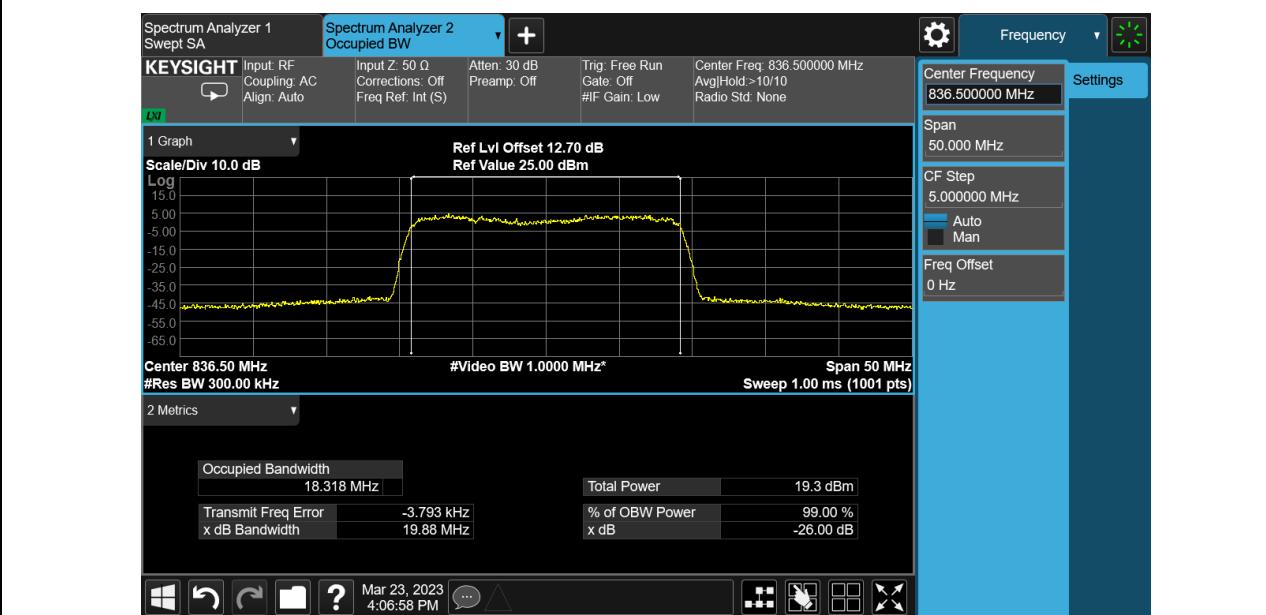
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## Uplink\_100MHz AWGN\_Middle Channel\_Output pre-AGC



## Uplink\_100MHz AWGN\_Middle Channel\_Output 3dB above AGC

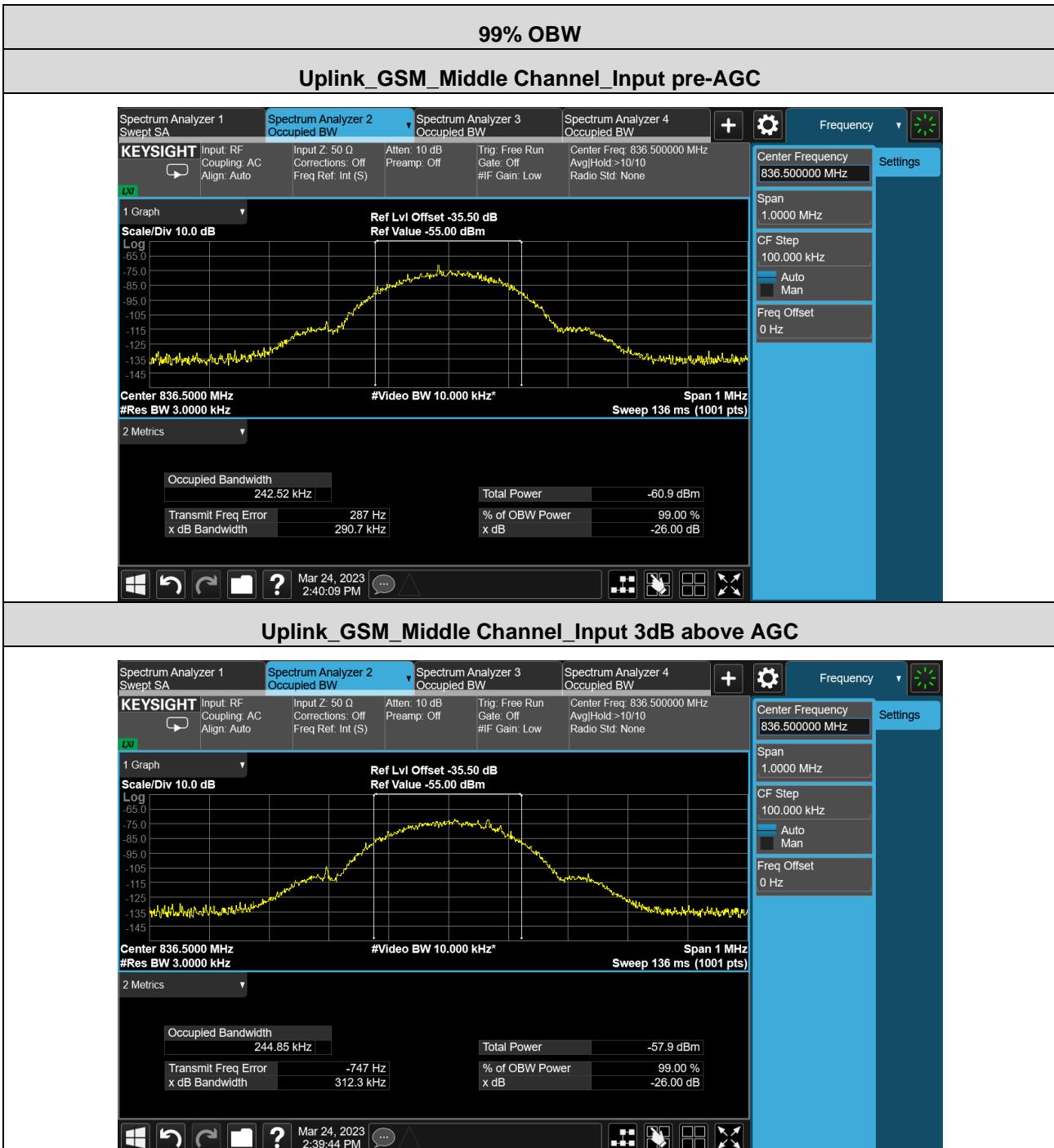


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## Uplink\_GSM\_Middle Channel\_Output pre-AGC



## Uplink\_GSM\_Middle Channel\_Output 3dB above AGC



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**3 Mean 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)	ERP (W)	Gain (dB)	Verdict
Uplink	842.3	5MHz AWGN	Pre-AGC	-60.00	20.36	1.663	80.36	PASS
			3dB above AGC	-57.00	19.83	1.472	/	PASS
		100MHz AWGN	Pre-AGC	-60.00	18.37	1.052	78.37	PASS
			3dB above AGC	-57.00	18.11	0.991	/	PASS
		GSM	Pre-AGC	-60.00	20.22	1.611	80.22	PASS
			3dB above AGC	-57.00	20.86	1.866	/	PASS

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. ERP= output power (dBm)+ antenna gain (dBi)- 2.15dB, the max antenna gain is 14dBi declared by the manufacturer.
3. The output power is limited to an ERP of 500W.

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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)	Verdict	
Uplink	lower edge	5MHz AWGN	One signal input	Pre-AGC	-35.52	≤-13	PASS	
				3dB above AGC	-36.06		PASS	
			Two signals input	Pre-AGC	-35.92		PASS	
				3dB above AGC	-35.33		PASS	
	upper edge		One signal input	Pre-AGC	-48.01		PASS	
				3dB above AGC	-48.30		PASS	
			Two signals input	Pre-AGC	-45.09		PASS	
				3dB above AGC	-45.53		PASS	

Remark:  
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,  
 $P = 19\text{dBm} = 0.08\text{W}$ , so  
 $\text{the limit} = 19\text{dBm} - [43 + 10 \log_{10} (0.08\text{W})] \text{ dB} = -13\text{dBm}$

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)	Verdict	
Uplink	lower edge	100MHz AWGN	One signal input	Pre-AGC	-47.65	≤-13	PASS	
				3dB above AGC	-47.78		PASS	
			Two signals input	Pre-AGC	-48.11		PASS	
				3dB above AGC	-48.26		PASS	
	upper edge		One signal input	Pre-AGC	-28.65		PASS	
				3dB above AGC	-28.58		PASS	
			Two signals input	Pre-AGC	-27.74		PASS	
				3dB above AGC	-27.22		PASS	

Remark:  
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,  
 $P = 19\text{dBm} = 0.08\text{W}$ , so  
 $\text{the limit} = 19\text{dBm} - [43 + 10 \log_{10} (0.08\text{W})] \text{ dB} = -13\text{dBm}$

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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)	Verdict	
Uplink	lower edge	GSM	One signal input	Pre-AGC	-40.38	≤-13	PASS	
				3dB above AGC	-40.01		PASS	
			Two signals input	Pre-AGC	-41.08		PASS	
				3dB above AGC	-41.17		PASS	
	upper edge		One signal input	Pre-AGC	-42.39		PASS	
				3dB above AGC	-42.12		PASS	
			Two signals input	Pre-AGC	-41.92		PASS	
				3dB above AGC	-42.35		PASS	

**Remark:**  
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,  
 $P = 19\text{dBm} = 0.08\text{W}$ , so  
the limit =  $19\text{dBm} - [43 + 10 \log_{10} (0.08\text{W})]$  dB = -13dBm

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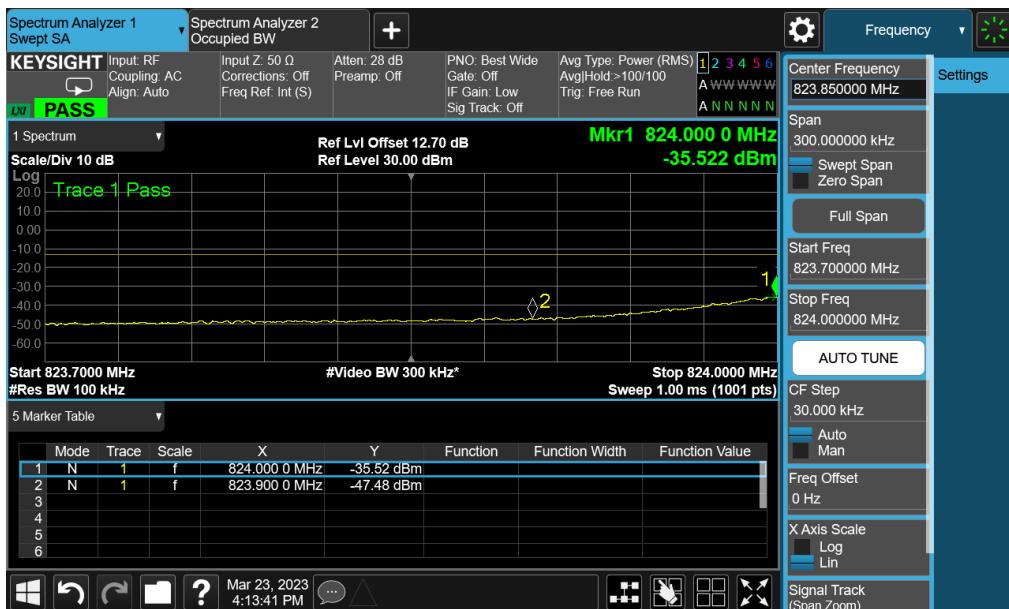
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## Out-of-band/out-of-block emissions

## Uplink\_5MHz AWGN\_One signal input\_Pre-AGC\_Lower edge



## Uplink\_5MHz AWGN\_One signal input\_3dB above AGC\_Lower edge



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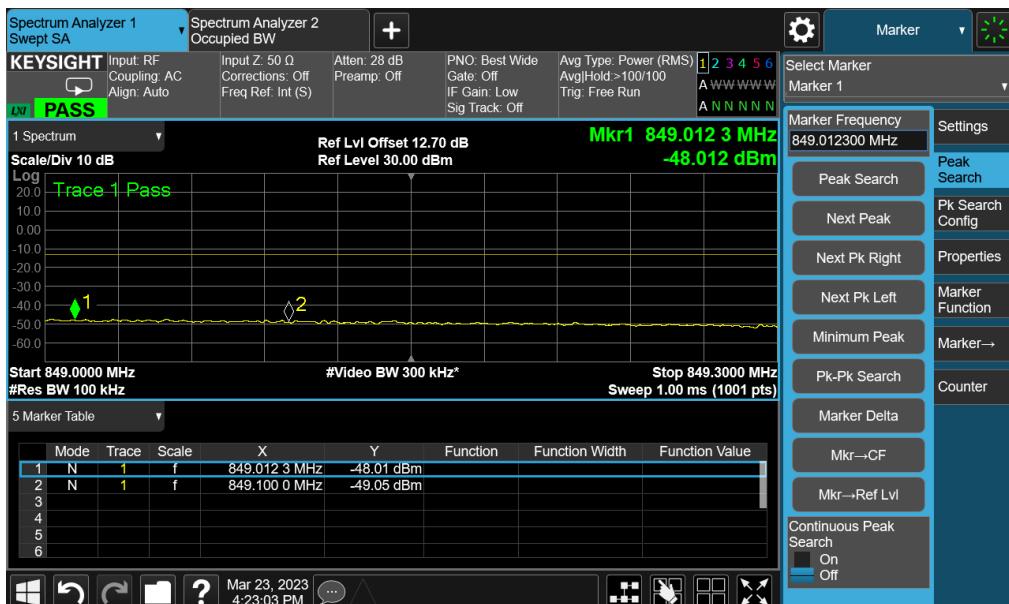
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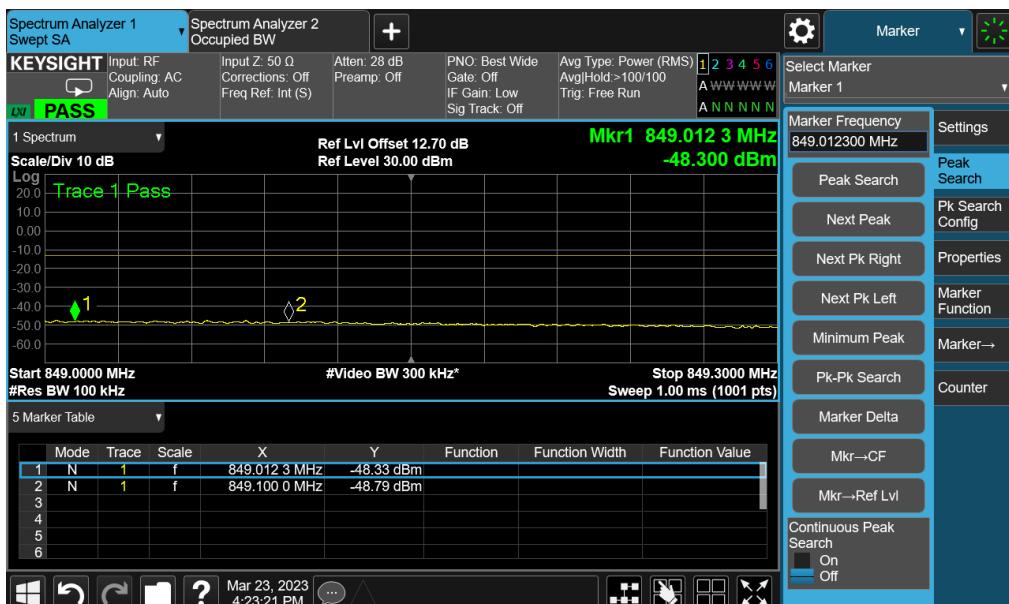
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## Out-of-band/out-of-block emissions

## Uplink\_5MHz AWGN\_One signal input\_Pre-AGC\_Upper edge



## Uplink\_5MHz AWGN\_One signal input\_3dB above AGC\_Upper edge



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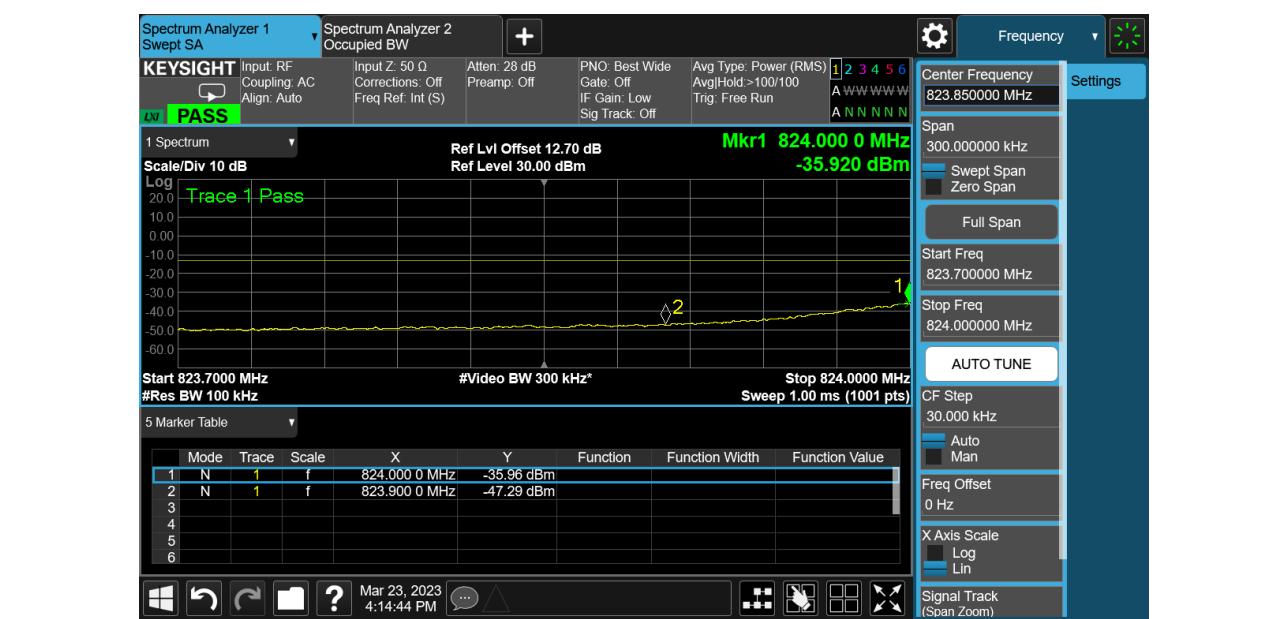
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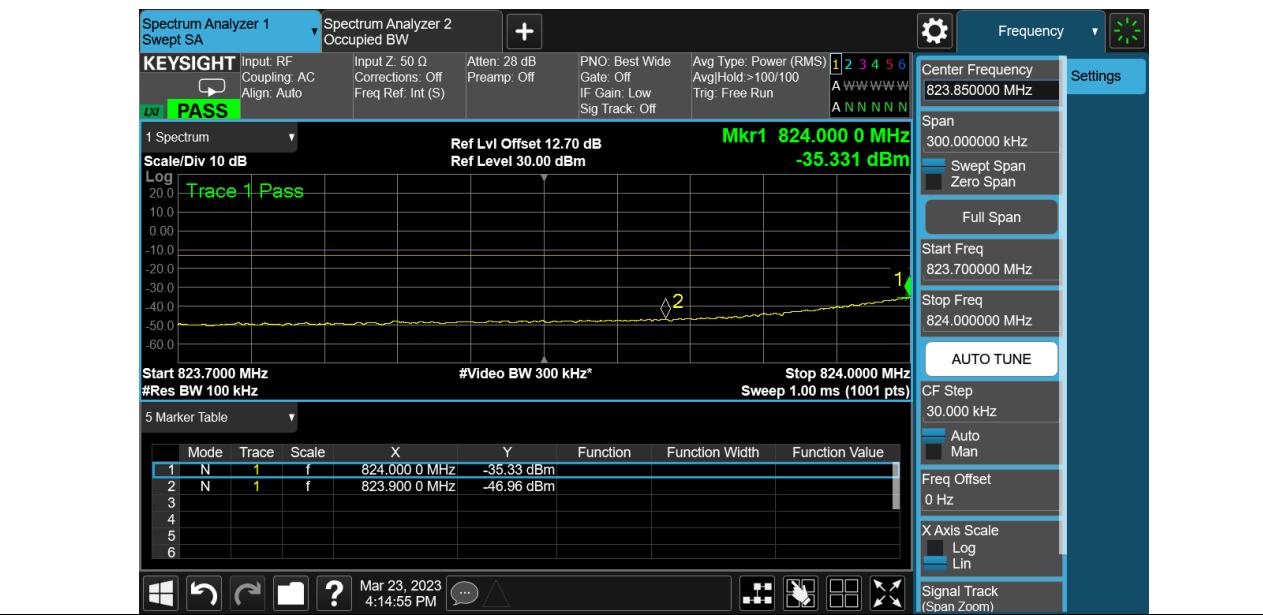
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## Out-of-band/out-of-block emissions

## Uplink\_5MHz AWGN\_Two signals input\_Pre-AGC\_Lower edge



## Uplink\_5MHz AWGN\_Two signals input\_3dB above AGC\_Lower edge



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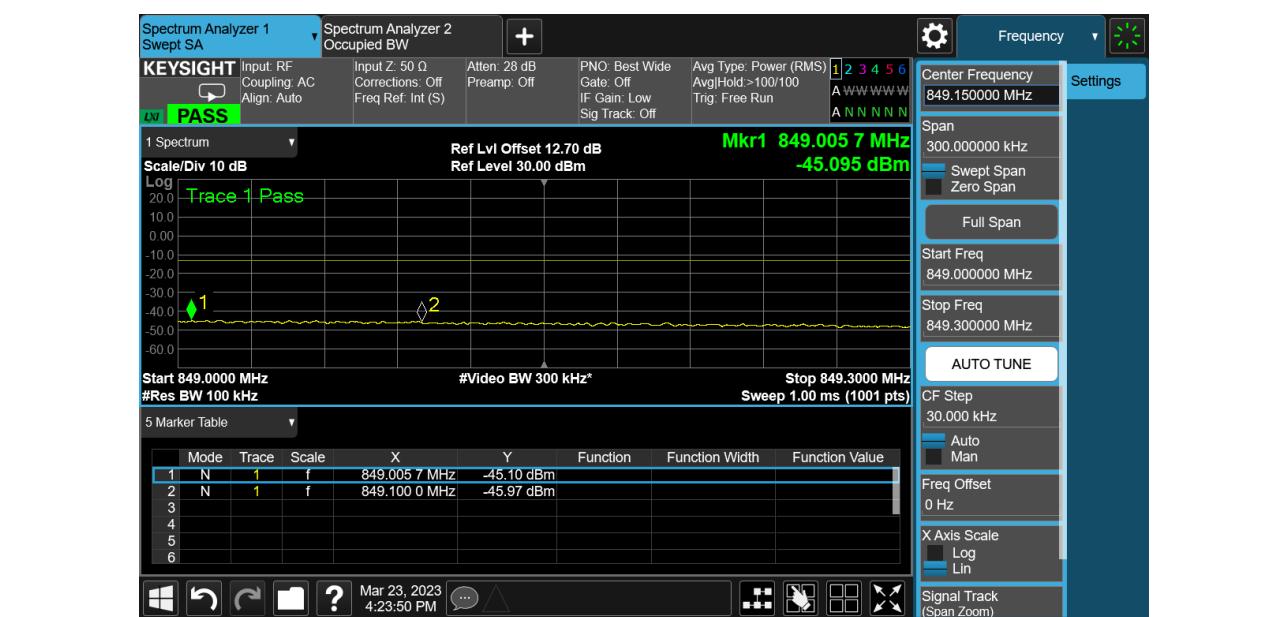
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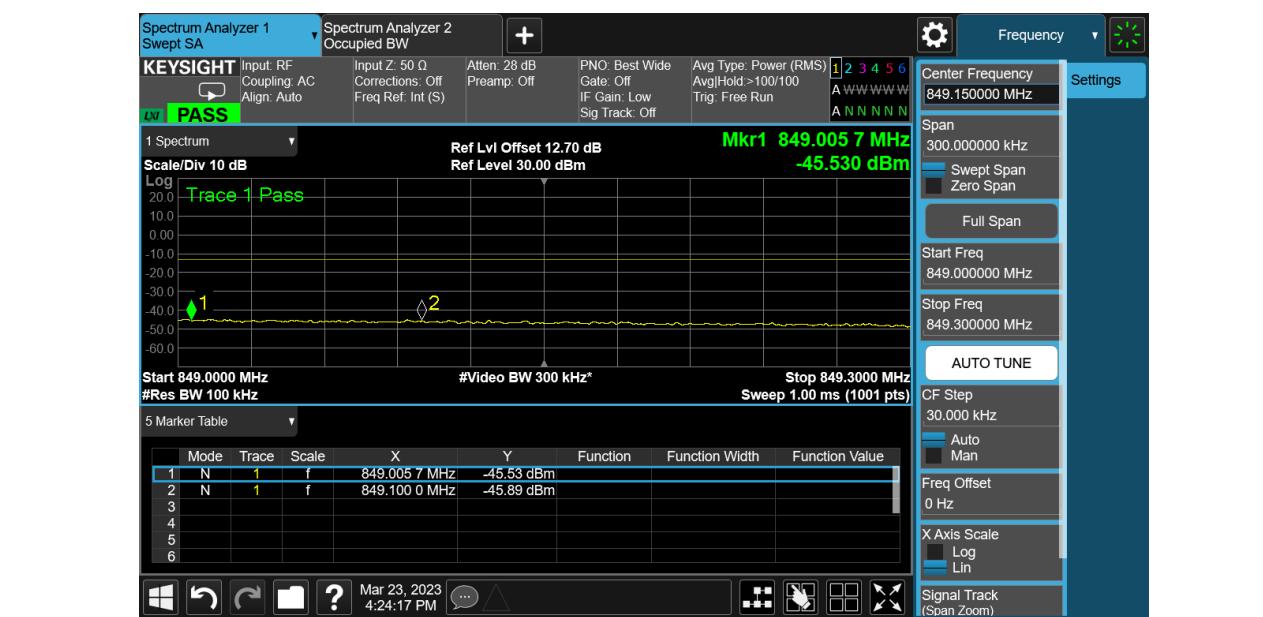
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## Out-of-band/out-of-block emissions

## Uplink\_5MHz AWGN\_Two signals input\_Pre-AGC\_Upper edge



## Uplink\_5MHz AWGN\_Two signals input\_3dB above AGC\_Upper edge



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

## Uplink\_100MHz AWGN\_One signal input\_Pre-AGC\_Lower edge



## Uplink\_100MHz AWGN\_One signal input\_3dB above AGC\_Lower edge



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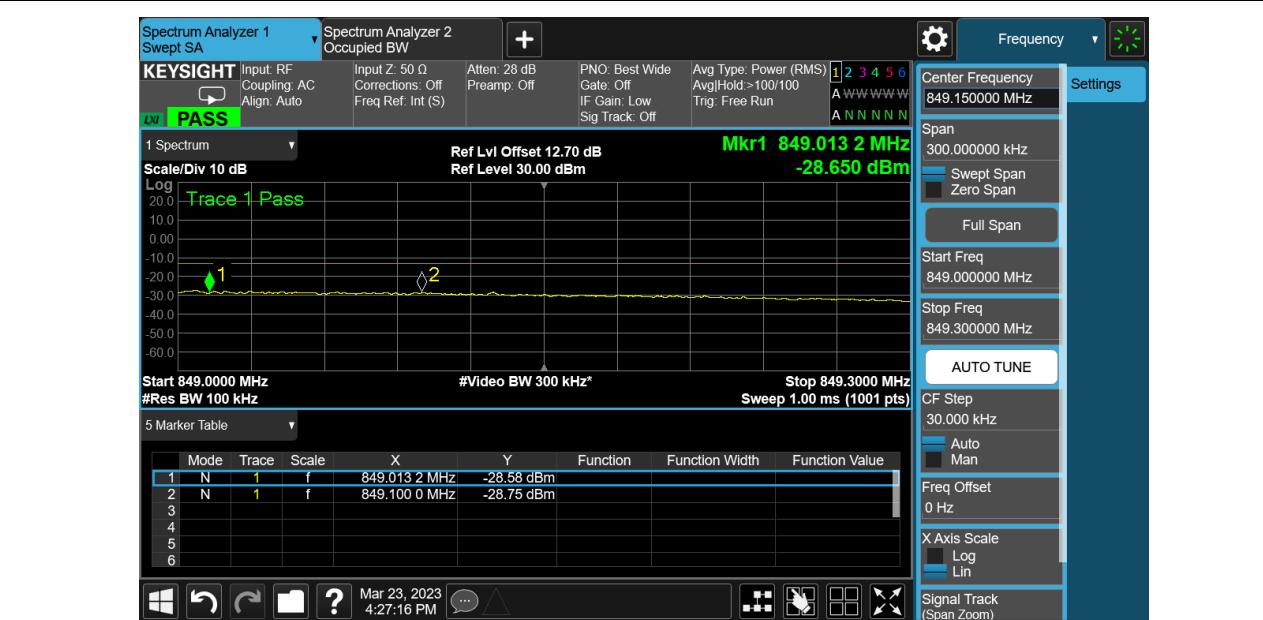
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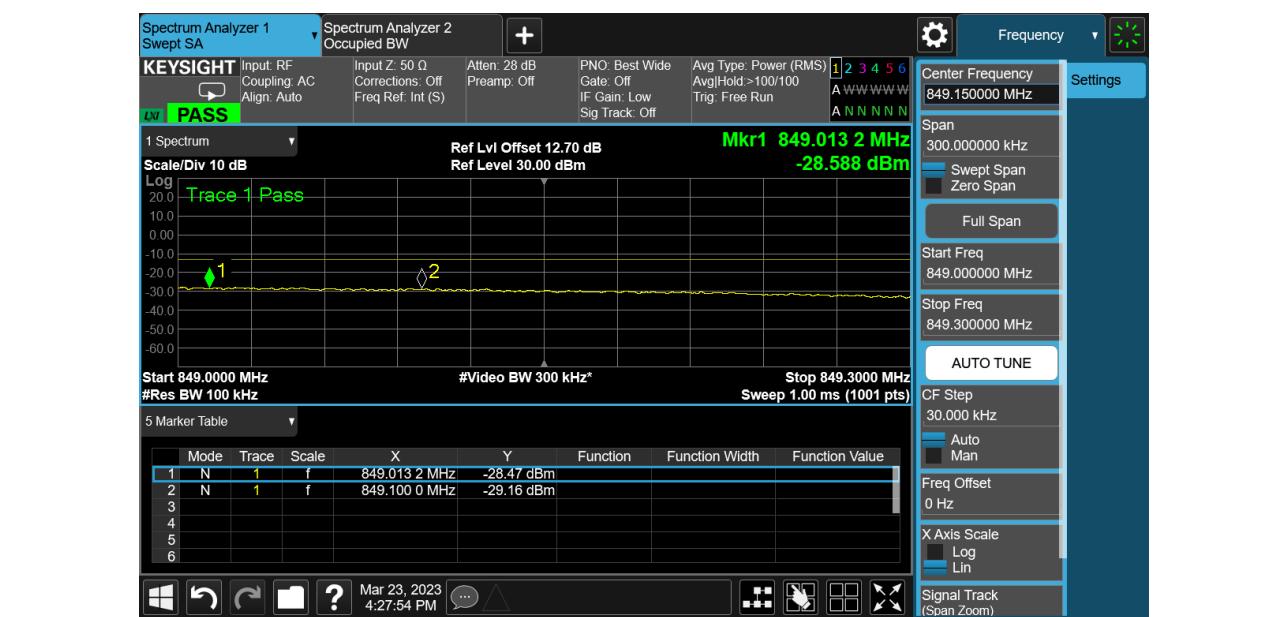
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## Out-of-band/out-of-block emissions

## Uplink\_100MHz AWGN\_One signal input\_Pre-AGC\_Upper edge



## Uplink\_100MHz AWGN\_One signal input\_3dB above AGC\_Upper edge



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

## Uplink\_100MHz AWGN\_Two signals input\_Pre-AGC\_Lower edge



## Uplink\_100MHz AWGN\_Two signals input\_3dB above AGC\_Lower edge



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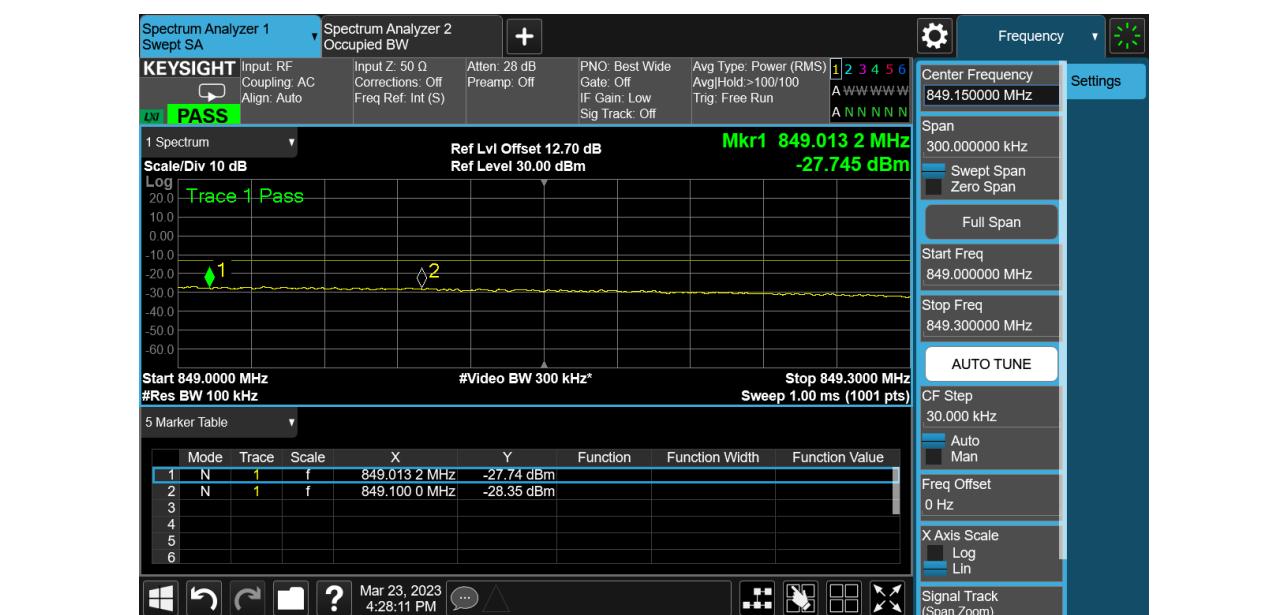
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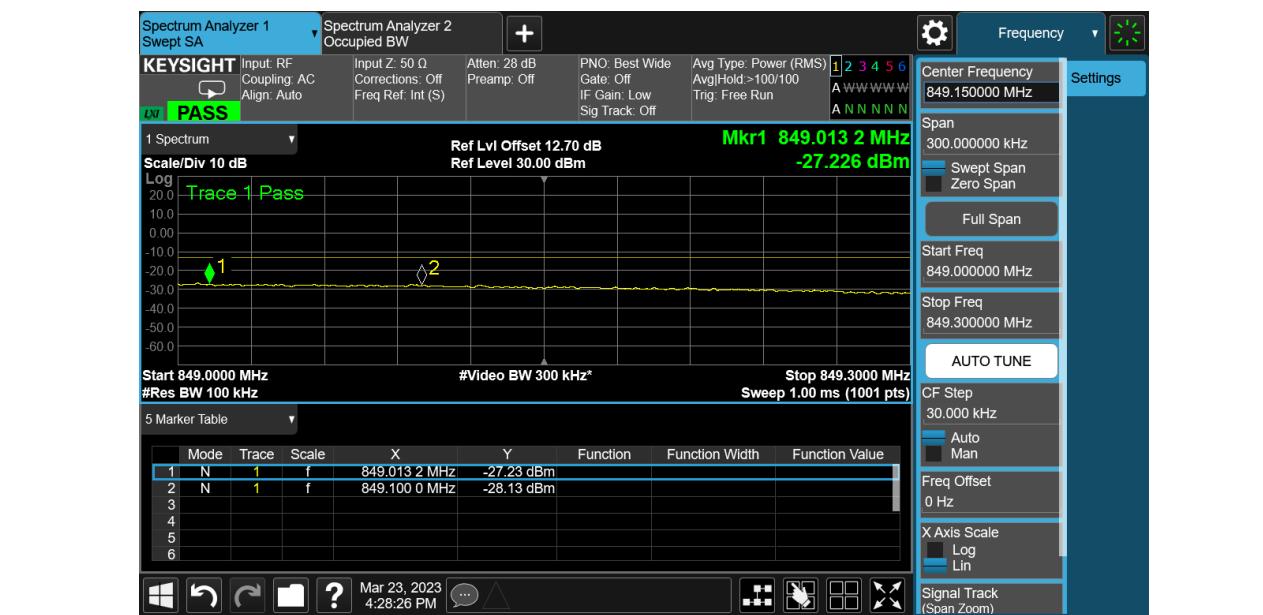
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## Out-of-band/out-of-block emissions

## Uplink\_100MHz AWGN\_Two signals input\_Pre-AGC\_Upper edge



## Uplink\_100MHz AWGN\_Two signals input\_3dB above AGC\_Upper edge



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

## Uplink\_GSM\_One signal input\_Pre-AGC\_Lower edge



## Uplink\_GSM\_One signal input\_3dB above AGC\_Lower edge



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

## Uplink\_GSM\_One signal input\_Pre-AGC\_Upper edge



## Uplink\_GSM\_One signal input\_3dB above AGC\_Upper edge



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

## Uplink\_GSM\_Two signals input\_Pre-AGC\_Lower edge



## Uplink\_GSM\_Two signals input\_3dB above AGC\_Lower edge



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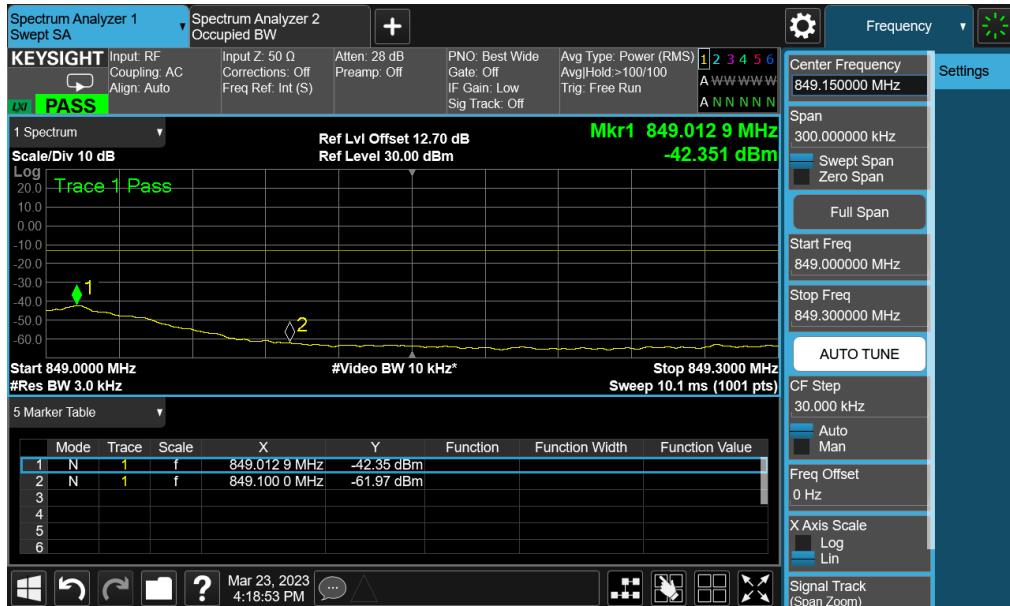
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## Out-of-band/out-of-block emissions

## Uplink\_GSM\_Two signals input\_Pre-AGC\_Upper edge



## Uplink\_GSM\_Two signals input\_3dB above AGC\_Upper edge



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## 5 Conducted Spurious emissions

Conducted spurious emissions							
Test Path	Test Channel	Test Signal	Signal Level	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
Uplink	High Channel	5MHz AWGN	Pre-AGC	0.009-823.9	-41.54	≤-13	PASS
				849.1-1000	-39.71	≤-13	PASS
				1000-9000	-35.57	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-823.9	-37.69	≤-13	PASS
				849.1-1000	-30.73	≤-13	PASS
				1000-9000	-39.26	≤-13	PASS
		GSM	Pre-AGC	0.009-823.9	-40.66	≤-13	PASS
				849.1-1000	-33.31	≤-13	PASS
				1000-9000	-31.20	≤-13	PASS
	Middle Channel	5MHz AWGN	Pre-AGC	0.009-823.9	-33.78	≤-13	PASS
				849.1-1000	-43.01	≤-13	PASS
				1000-9000	-35.12	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-823.9	-39.65	≤-13	PASS
				849.1-1000	-42.67	≤-13	PASS
				1000-9000	-42.24	≤-13	PASS
		GSM	Pre-AGC	0.009-823.9	-34.20	≤-13	PASS
				849.1-1000	-29.35	≤-13	PASS
				1000-9000	-45.68	≤-13	PASS
	Low Channel	5MHz AWGN	Pre-AGC	0.009-823.9	-37.31	≤-13	PASS
				849.1-1000	-38.04	≤-13	PASS
				1000-9000	-41.82	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-823.9	-31.44	≤-13	PASS
				849.1-1000	-32.42	≤-13	PASS
				1000-9000	-35.85	≤-13	PASS
		GSM	Pre-AGC	0.009-823.9	-34.91	≤-13	PASS
				849.1-1000	-43.60	≤-13	PASS
				1000-9000	-41.24	≤-13	PASS

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## Remark:

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,

$$P = 19\text{dBm} = 0.08\text{W}, \text{ so}$$

$$\text{the limit} = 19\text{dBm} - [43 + 10 \log_{10} (0.08\text{W})] \text{ dB} = -13\text{dBm}$$

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**6 Frequency Stability**

Frequency stability vs temperature						
Test Path	Test Frequency (MHz)	Temperature (°C)	Voltage (V AC)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Uplink	836.5	+50	110	26	0.0311	PASS
		+40	110	32	0.0383	PASS
		+30	110	17	0.0203	PASS
		+20	110	19	0.0227	PASS
		+10	110	22	0.0263	PASS
		0	110	31	0.0371	PASS
		-10	110	38	0.0454	PASS
		-20	110	32	0.0383	PASS
		-30	110	19	0.0227	PASS

Frequency stability vs voltage						
Test path	Test Frequency (MHz)	Voltage (V AC)	Temperature (°C)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Uplink	836.5	93.5	20	31	0.0371	PASS
		126.5	20	28	0.0335	PASS

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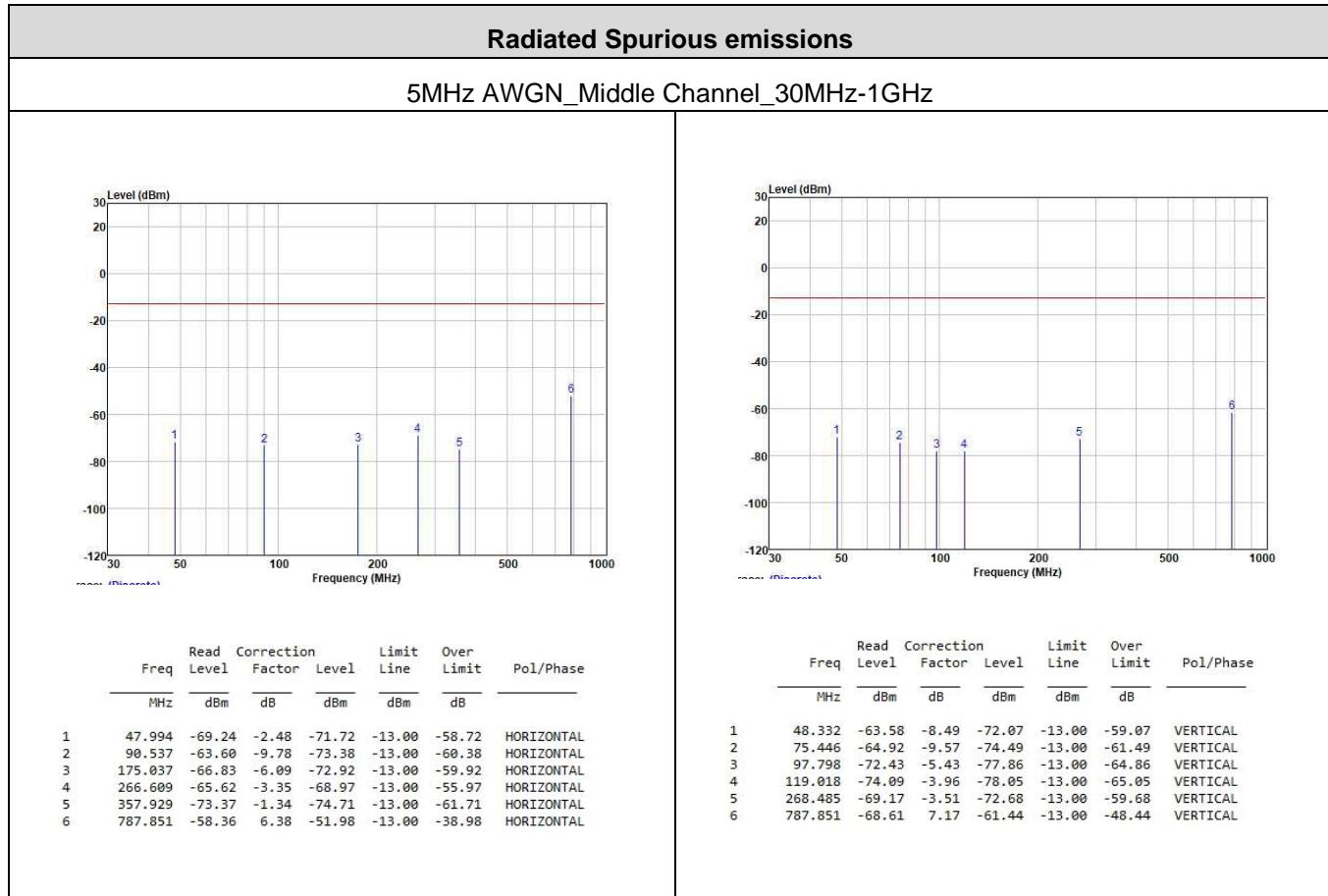
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## 7 Radiated Spurious emissions

All modes (Lowest/Middle/Highest Channels, 5MHz AWGN input signal/100MHz AWGN input signal / GSM input signal) have been tested and only the worst test result was recorded in this report.

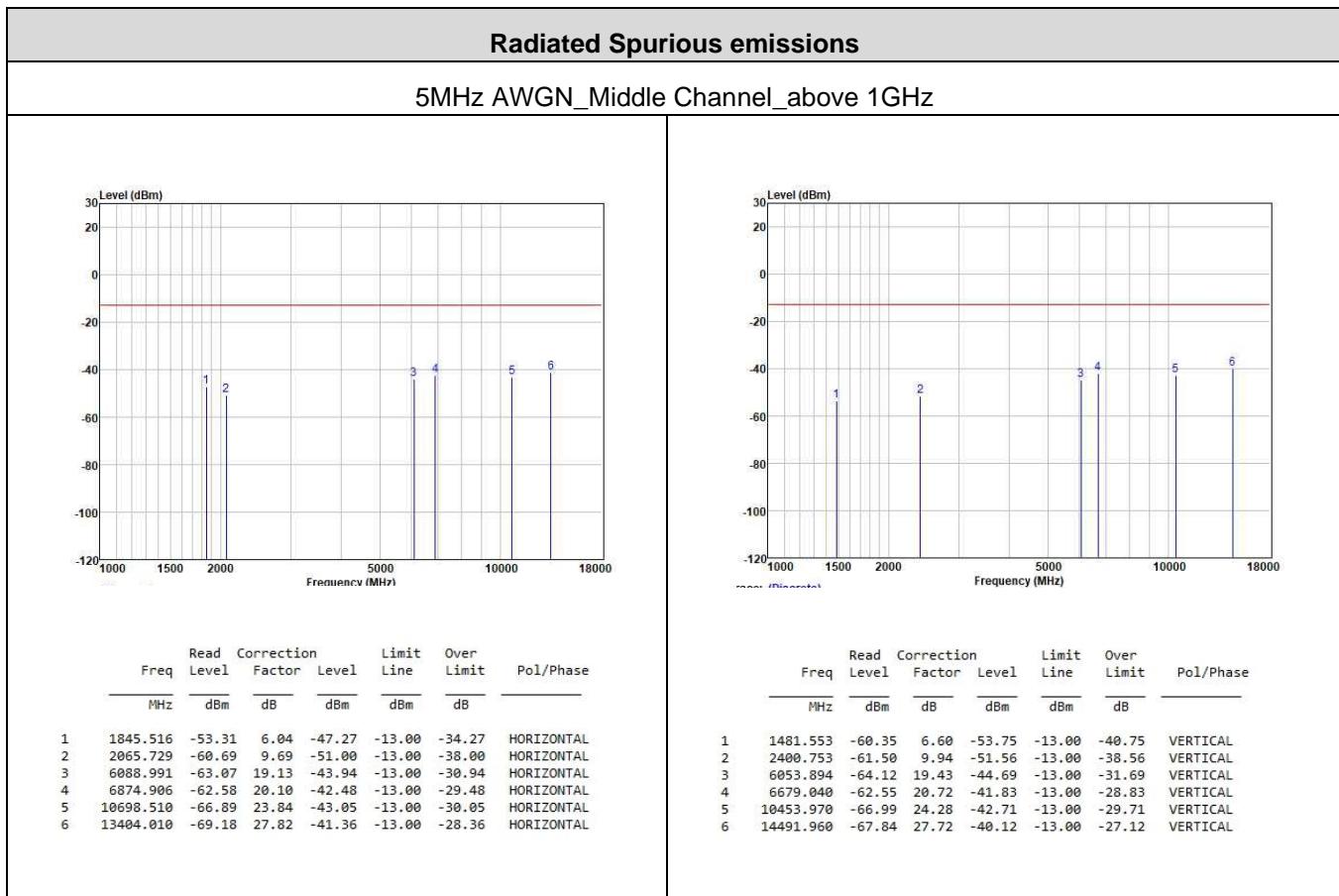


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--End of Appendix--

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