

Appendix -

Test Data and Result for report

GZCR230300022403

(Upper 700MHz band)

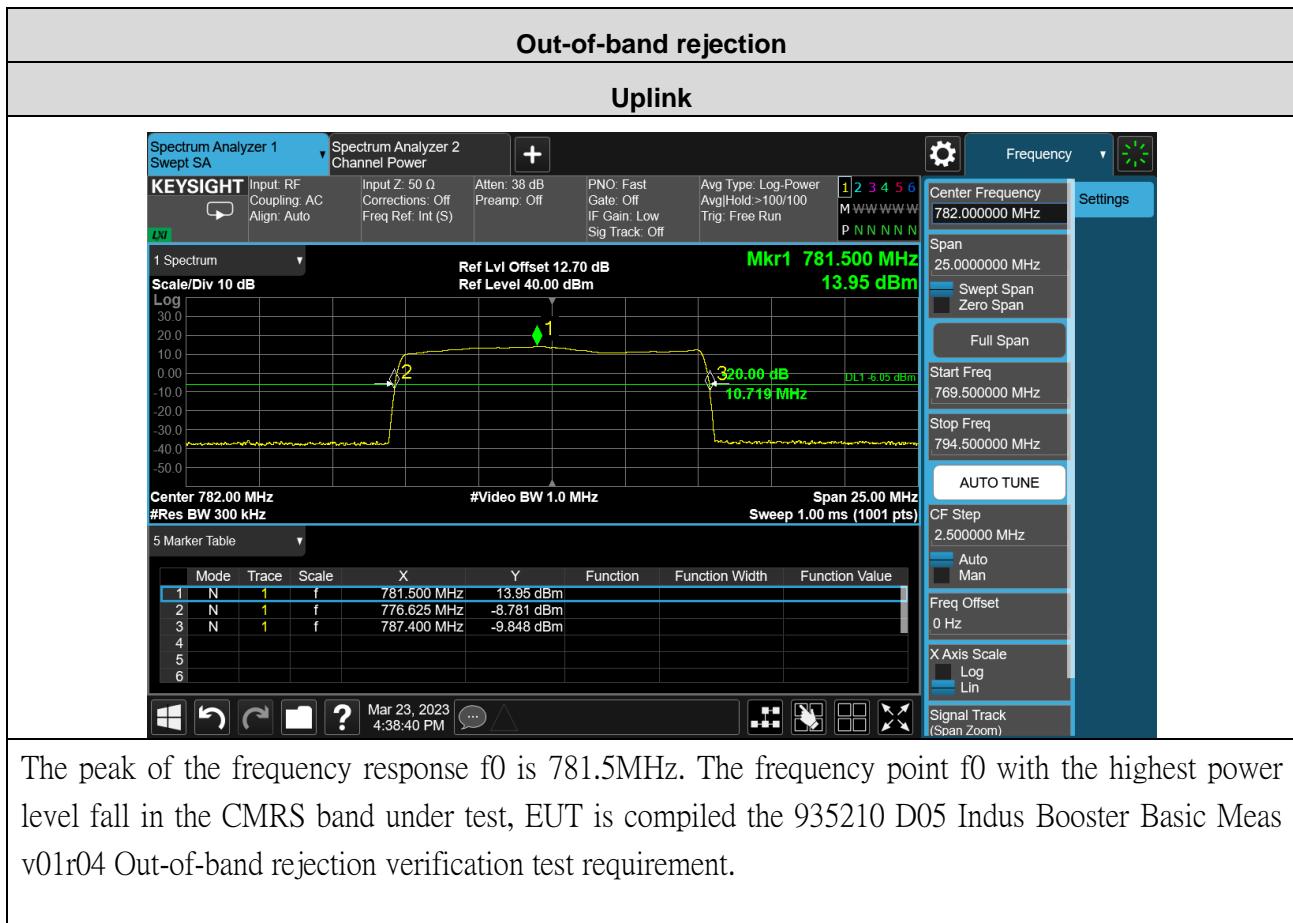
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1 Out-of-band rejection



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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

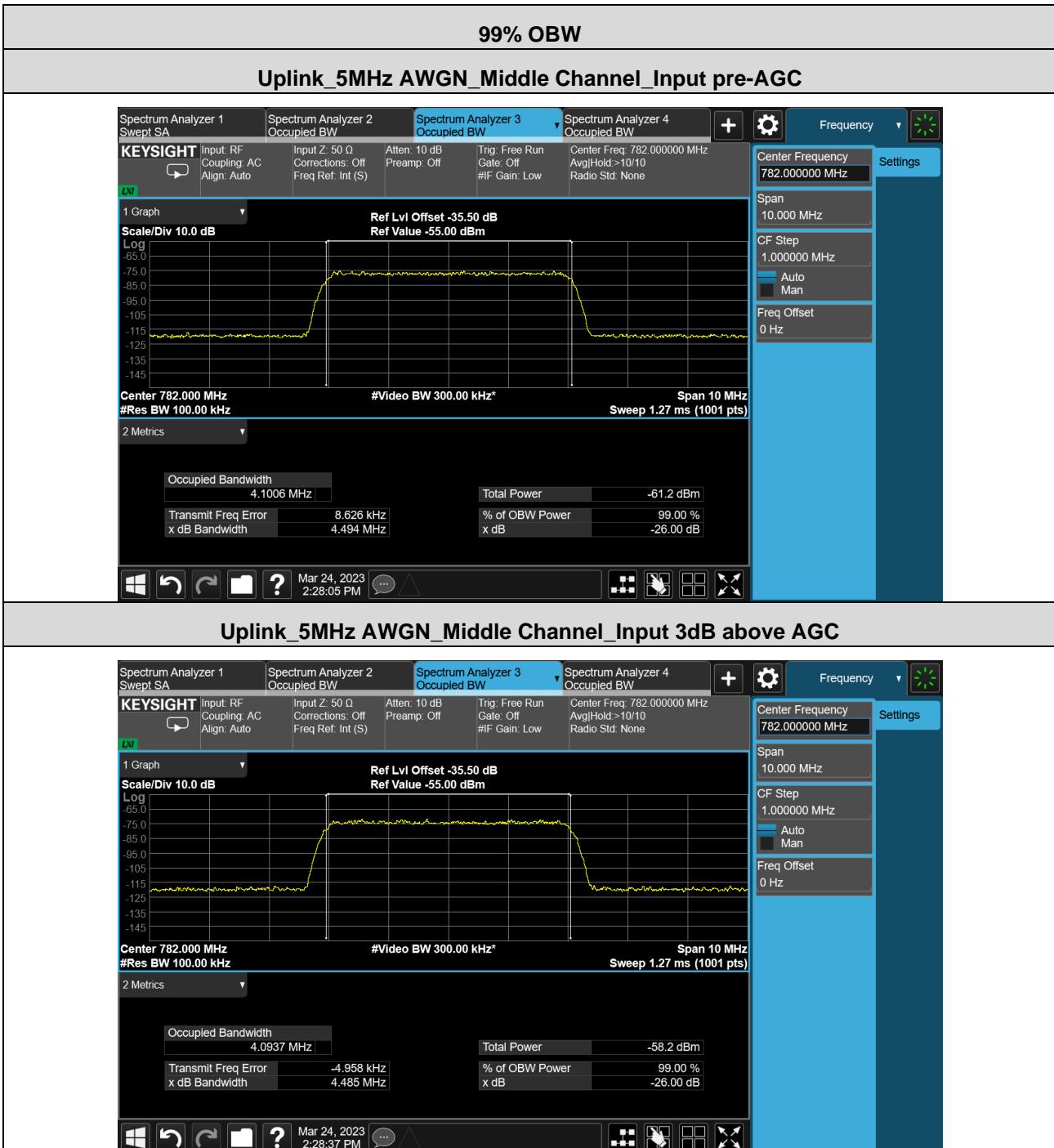
Remark:
*: The Upper 700MHz band supports maximum channel BW is 10MHz @ NR, so the output OBW was less than the input when 100MHz AWGN was as stimulus signal.

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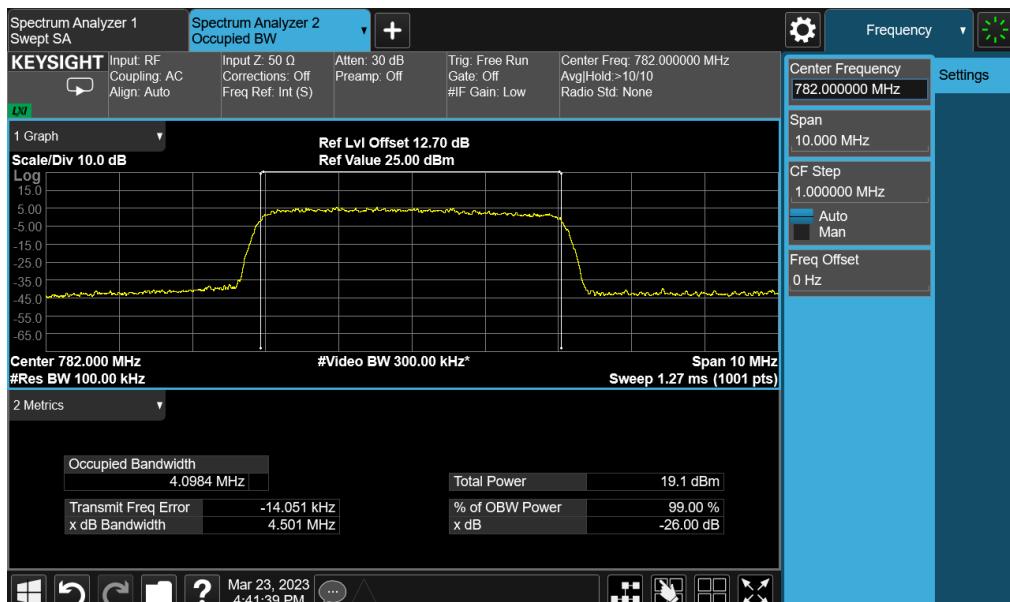
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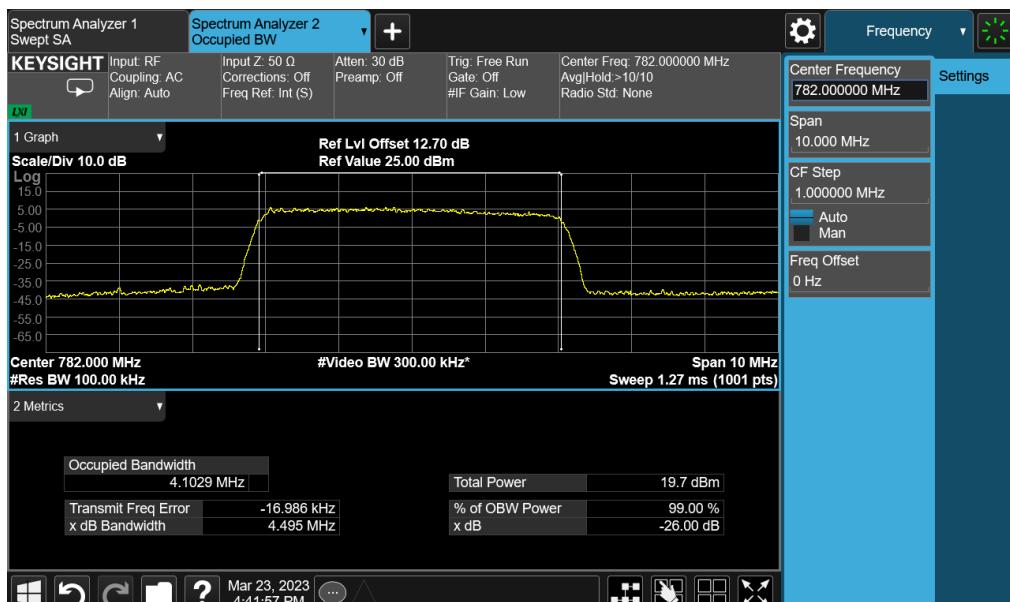
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99% OBW

Uplink_5MHz AWGN_Middle Channel_Output pre-AGC



Uplink_5MHz AWGN_Middle Channel_Output 3dB above AGC



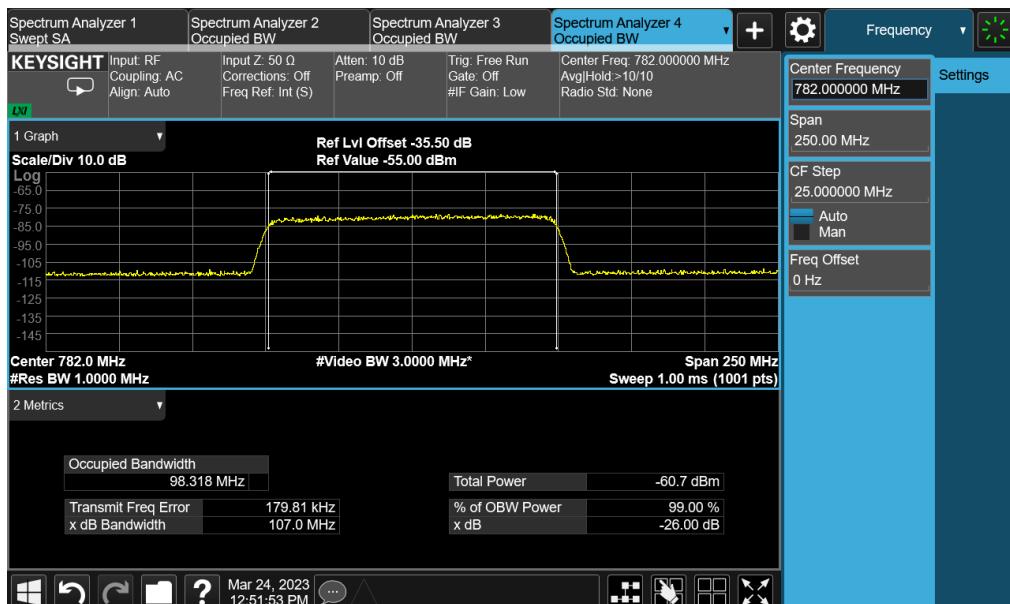
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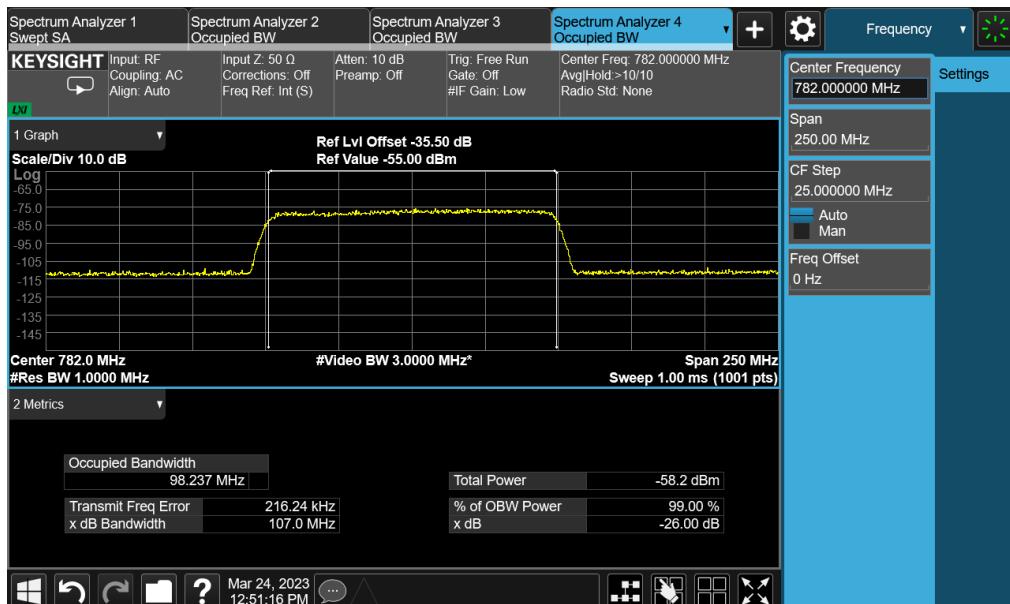
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Uplink_100MHz AWGN_Middle Channel_Input pre-AGC



Uplink_100MHz AWGN_Middle Channel_Input 3dB above AGC



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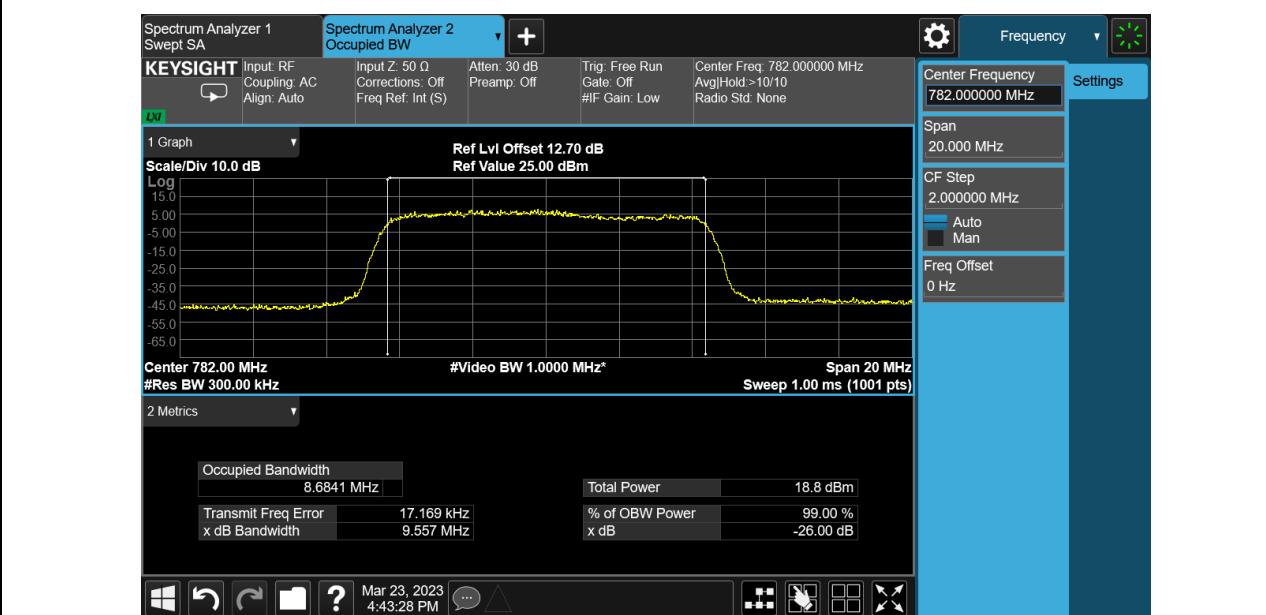
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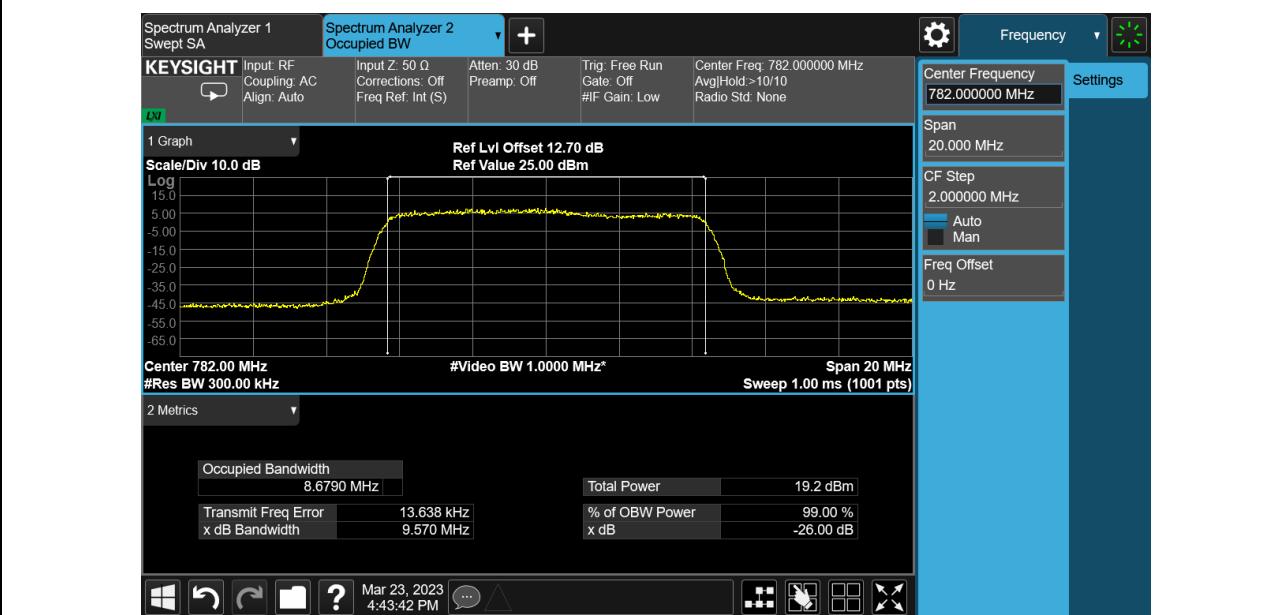
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Uplink_100MHz AWGN_Middle Channel_Output pre-AGC



Uplink_100MHz AWGN_Middle Channel_Output 3dB above AGC



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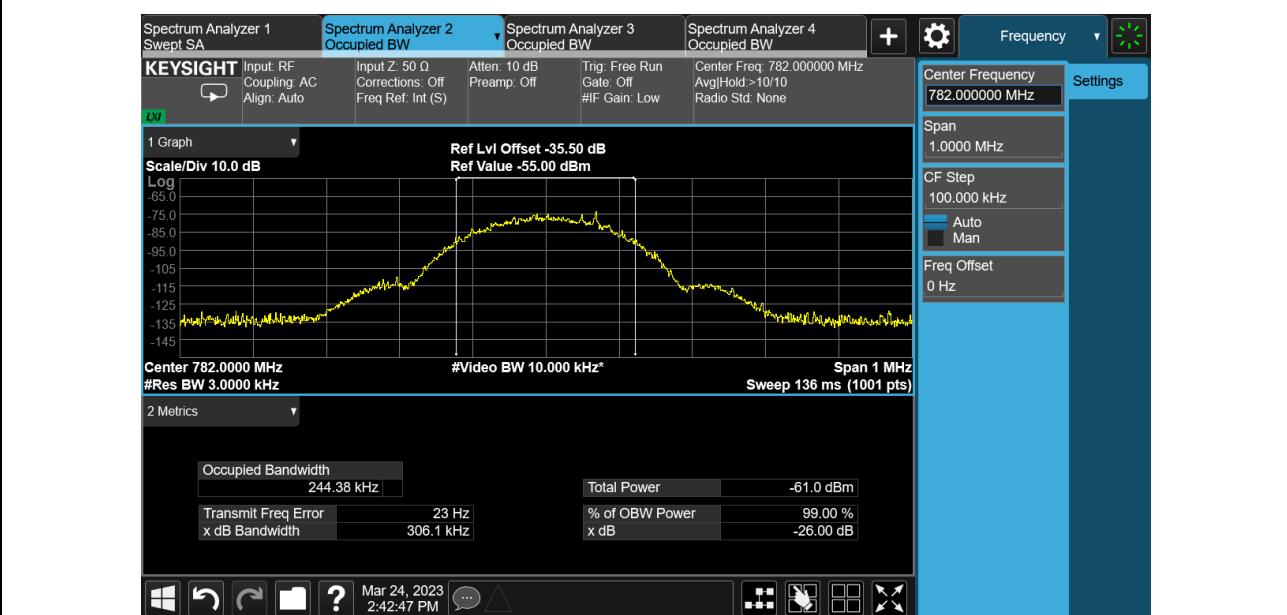
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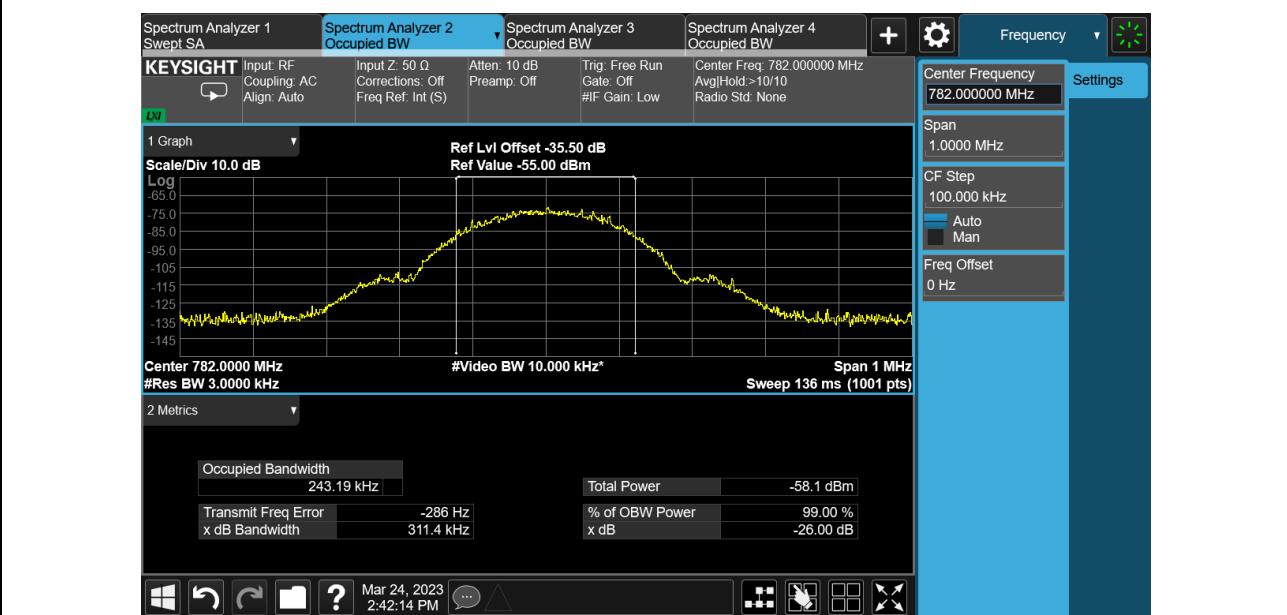
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Uplink_GSM_Middle Channel_Input pre-AGC



Uplink_GSM_Middle Channel_Input 3dB above AGC



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99% OBW

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)
Uplink	781.5	5MHz AWGN	Pre-AGC	-61.00	18.63	1.12	79.63
			3dB above AGC	-58.00	18.52	1.09	/
		100MHz AWGN	Pre-AGC	-61.00	14.73	0.45	74.73
			3dB above AGC	-58.00	14.83	0.47	/
		GSM	Pre-AGC	-61.00	19.87	1.49	80.87
			3dB above AGC	-58.00	19.35	1.32	/

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.

Mean output power						
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	ERP (W/MHz)	Verdict
Uplink	781.5	5MHz AWGN	Pre-AGC	12.54	0.27	PASS
			3dB above AGC	12.35	0.26	PASS
		100MHz AWGN	Pre-AGC	3.78	0.04	PASS
			3dB above AGC	4.18	0.04	PASS
		GSM	Pre-AGC	19.63	1.41	PASS
			3dB above AGC	19.46	1.35	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 antenna gain is 14dBi declared by the manufacturer.
3. The output power is limited to an ERP of 1000W/MHz.

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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	-38.05	≤-13	PASS	
				3dB above AGC	-38.81		PASS	
			Two signals input	Pre-AGC	-36.33		PASS	
				3dB above AGC	-35.60		PASS	
	upper edge		One signal input	Pre-AGC	-50.01		PASS	
				3dB above AGC	-49.91		PASS	
			Two signals input	Pre-AGC	-50.00		PASS	
				3dB above AGC	-50.35		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
 $\text{the limit} = 19\text{dBm} - [43 + 10 \log_{10} (0.08\text{W})] \text{ dB} = -13\text{dBm}$

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	-26.13	≤-13	PASS	
				3dB above AGC	-26.82		PASS	
			Two signals input	Pre-AGC	-25.78		PASS	
				3dB above AGC	-26.98		PASS	
	upper edge		One signal input	Pre-AGC	-23.68		PASS	
				3dB above AGC	-23.76		PASS	
			Two signals input	Pre-AGC	-24.34		PASS	
				3dB above AGC	-25.31		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	-40.89	≤-13	PASS	
				3dB above AGC	-40.32		PASS	
			Two signals input	Pre-AGC	-43.07		PASS	
				3dB above AGC	-42.47		PASS	
	upper edge		One signal input	Pre-AGC	-38.88		PASS	
				3dB above AGC	-38.42		PASS	
			Two signals input	Pre-AGC	-39.47		PASS	
				3dB above AGC	-39.75		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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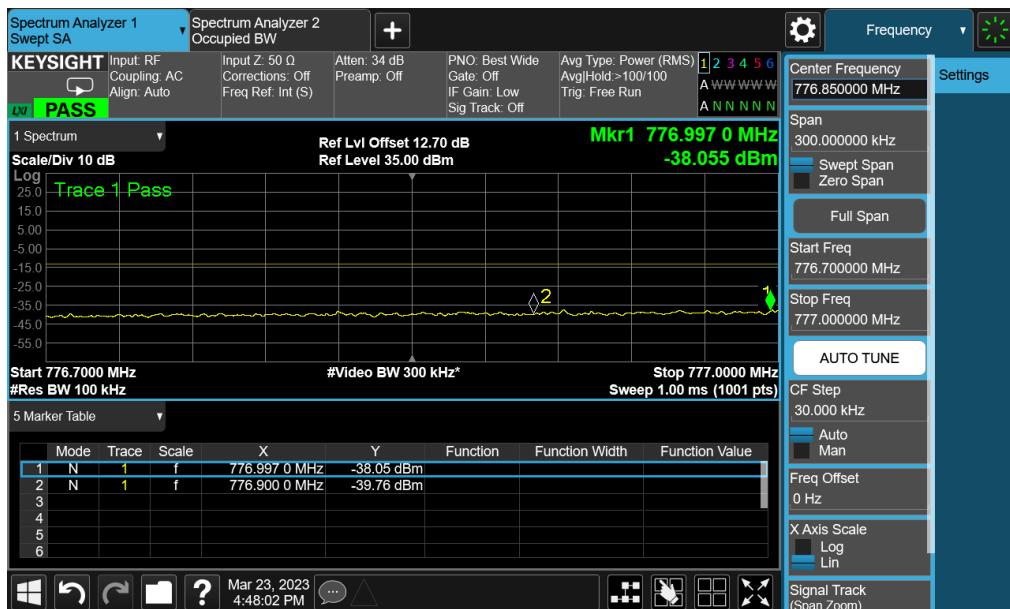
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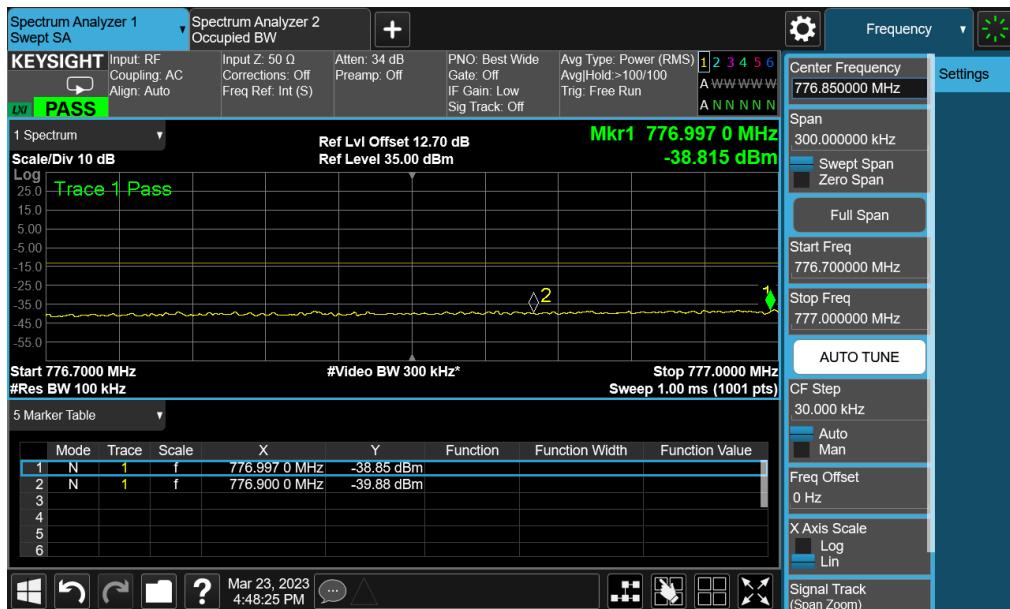
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Out-of-band/out-of-block emissions

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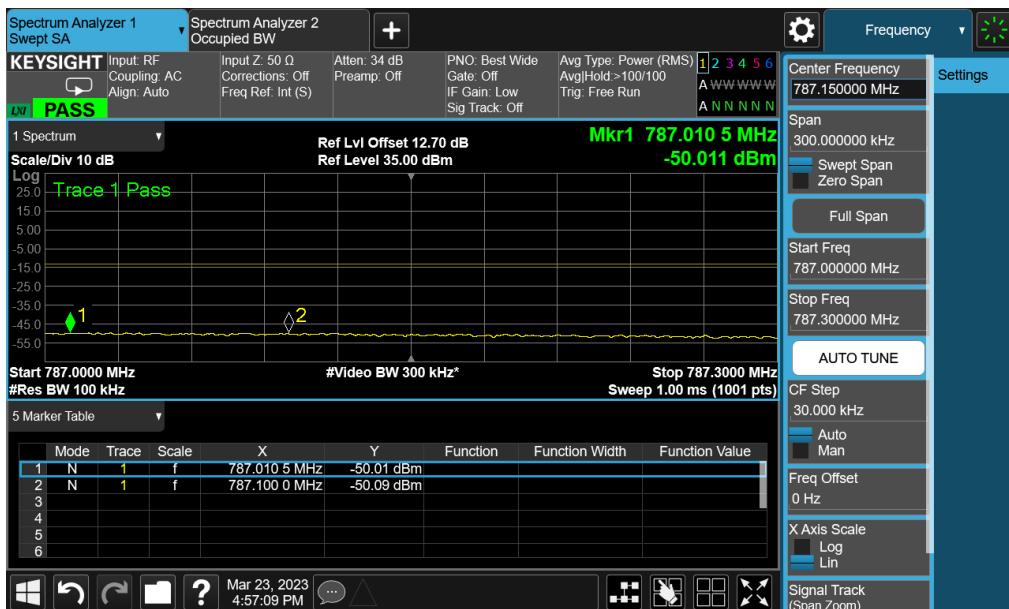
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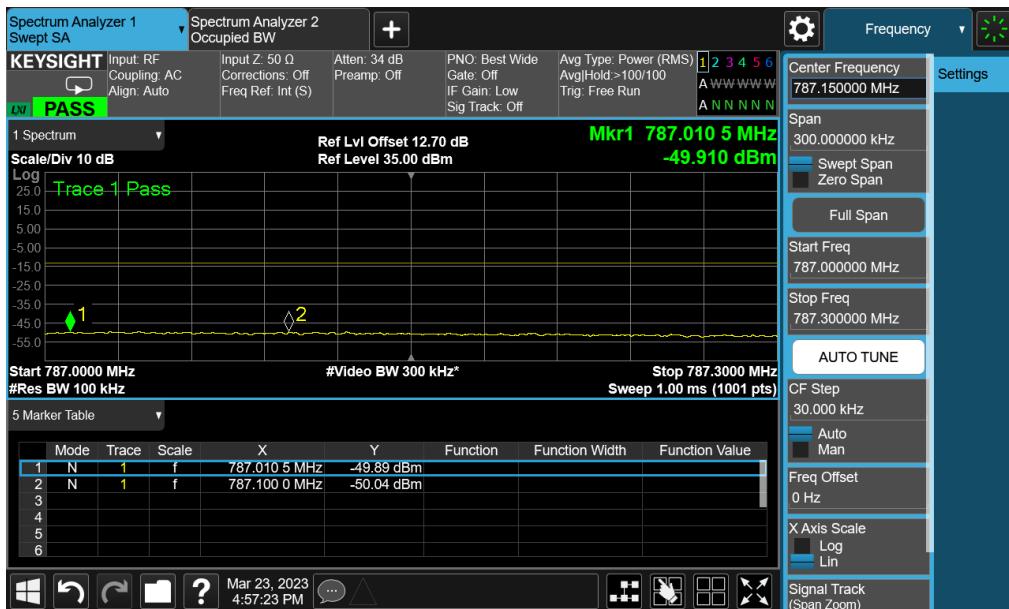
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Out-of-band/out-of-block emissions

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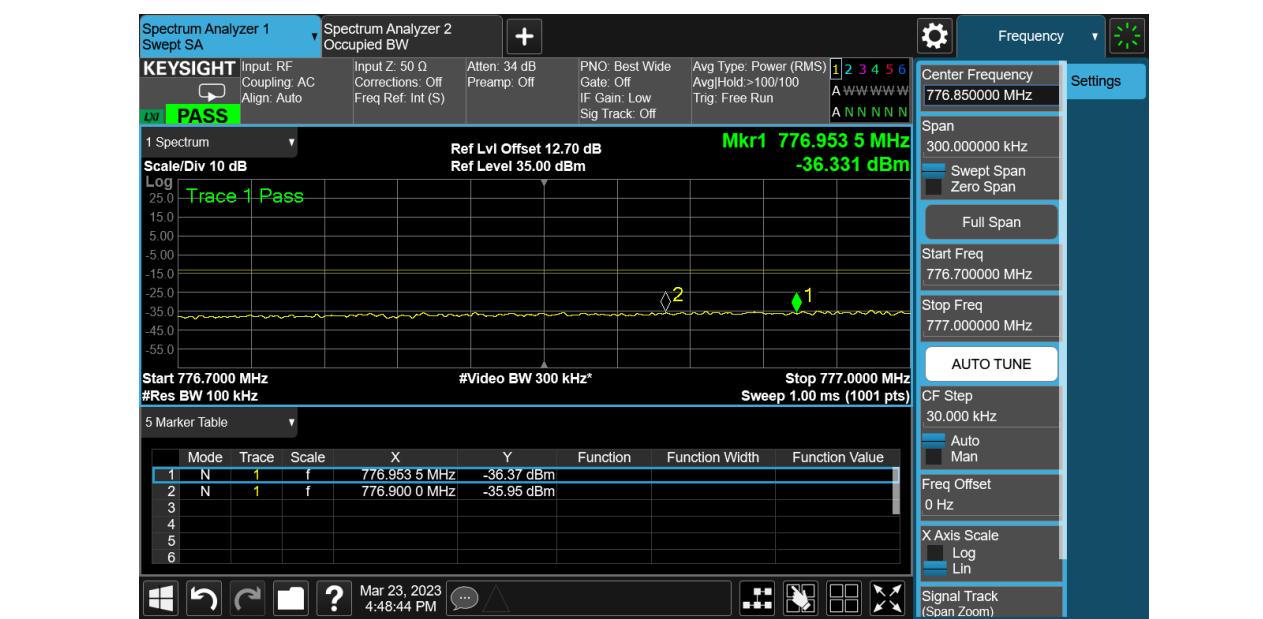
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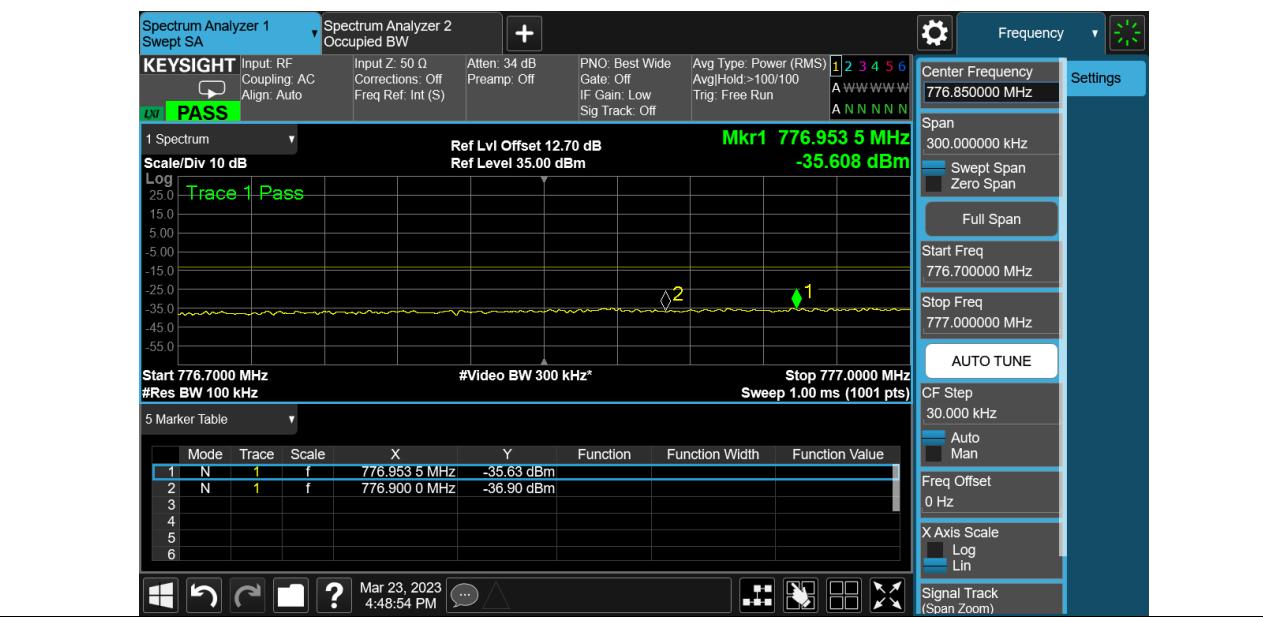
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Out-of-band/out-of-block emissions

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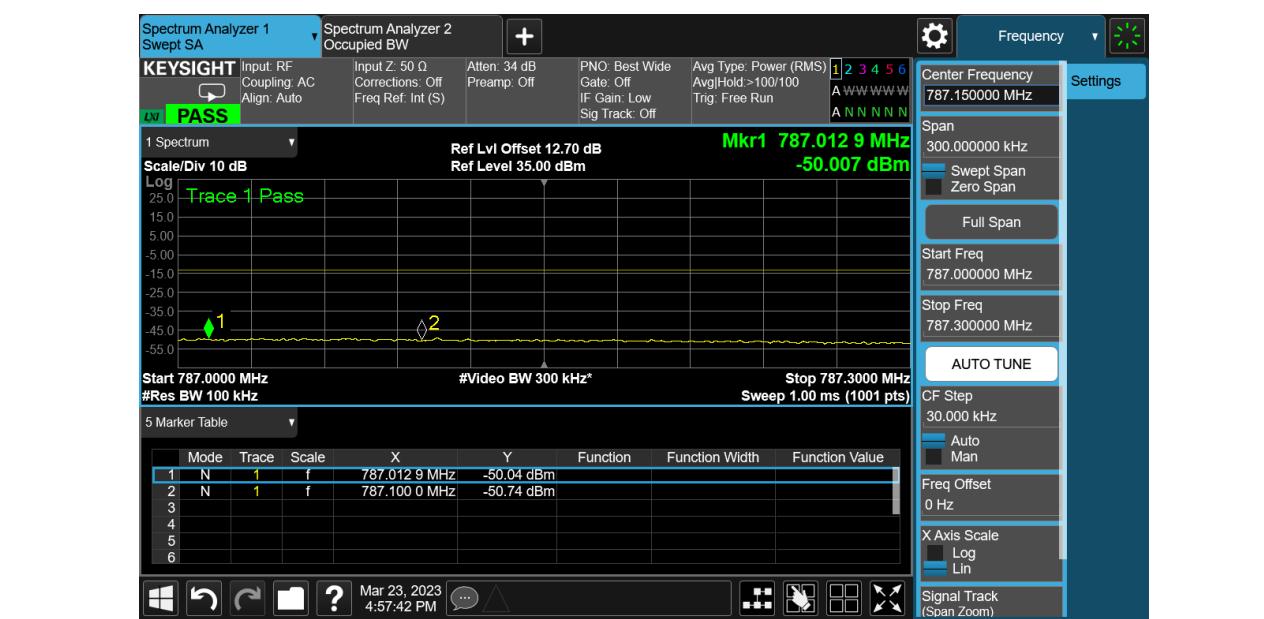
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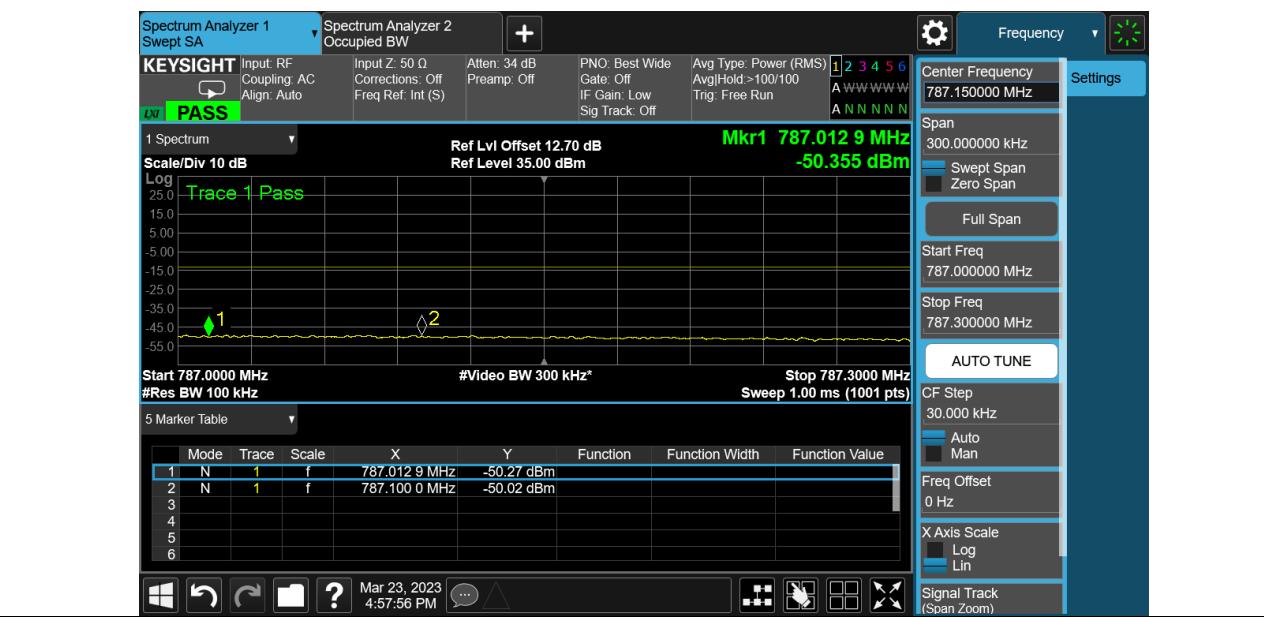
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Out-of-band/out-of-block emissions

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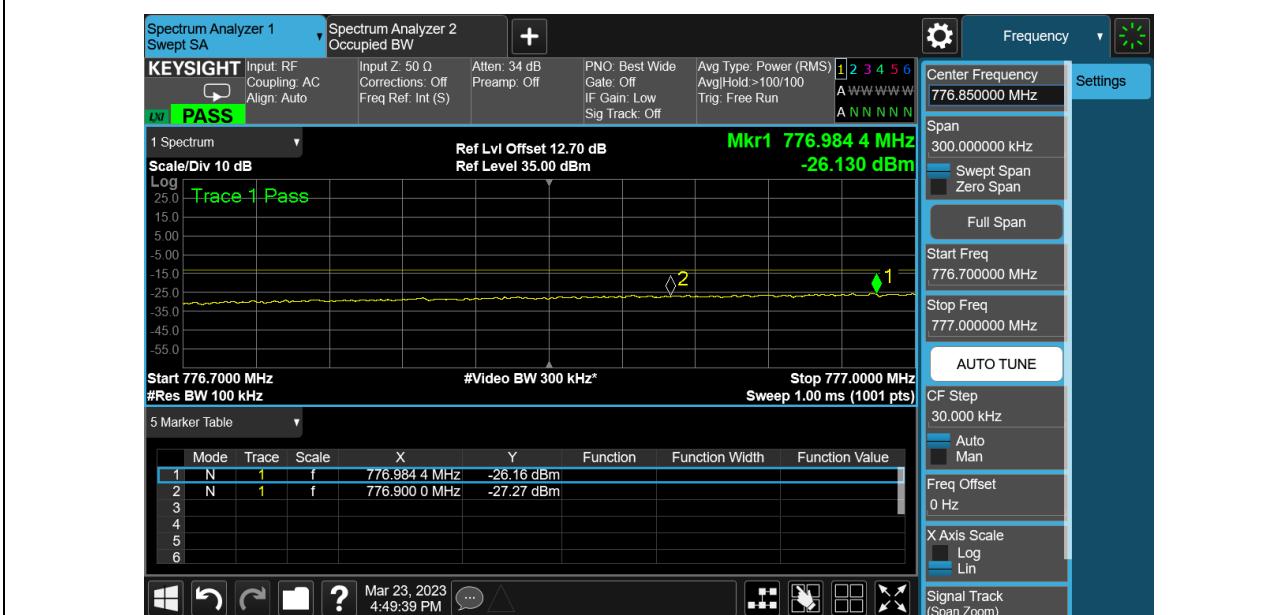
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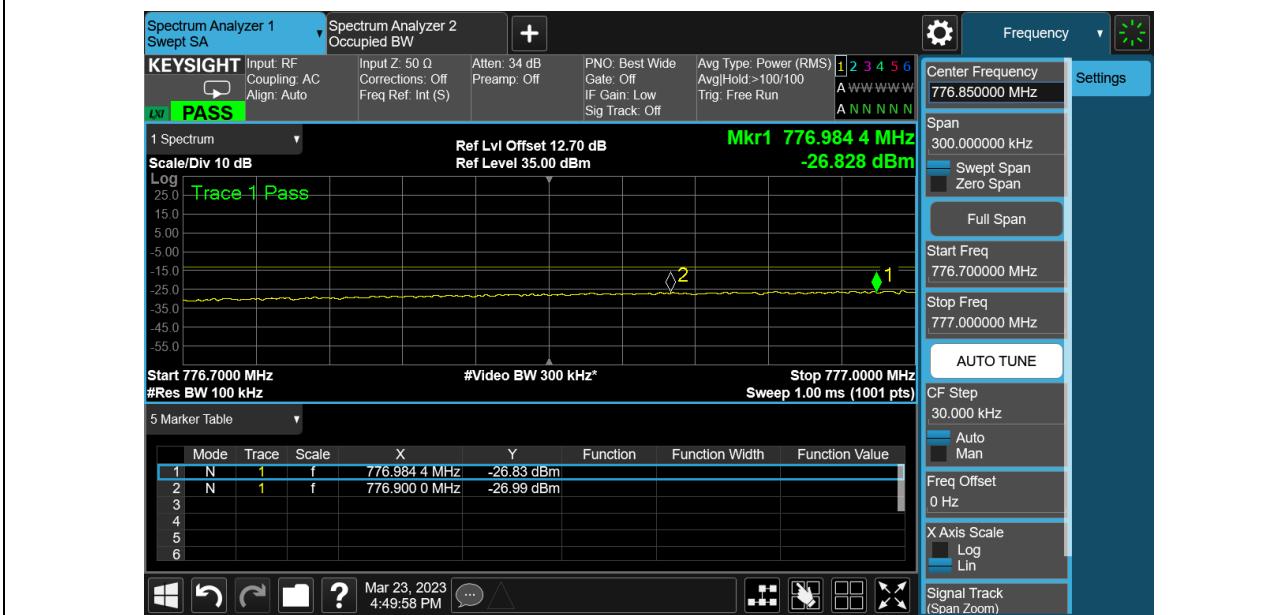
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Out-of-band/out-of-block emissions

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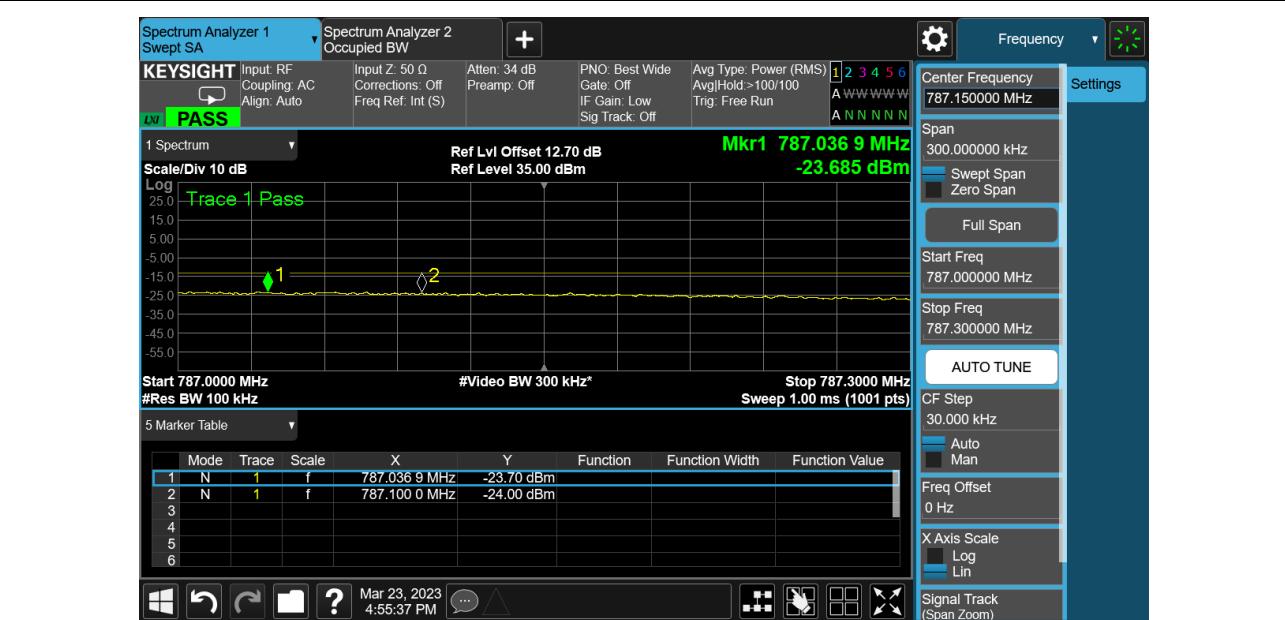
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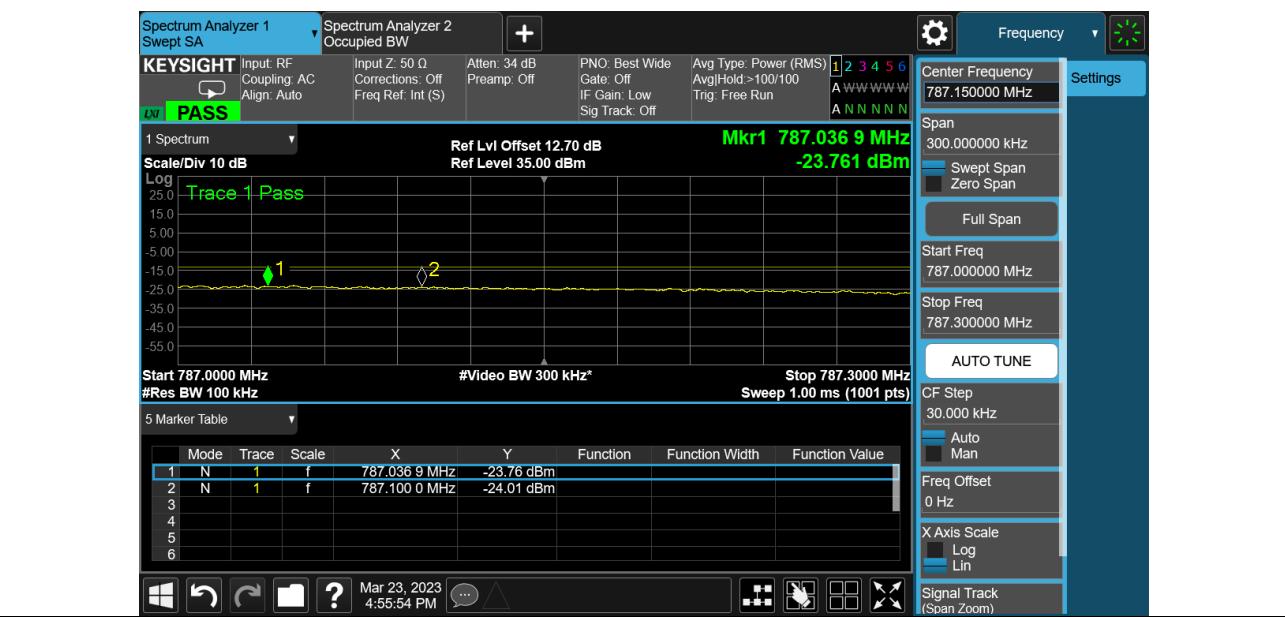
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Out-of-band/out-of-block emissions

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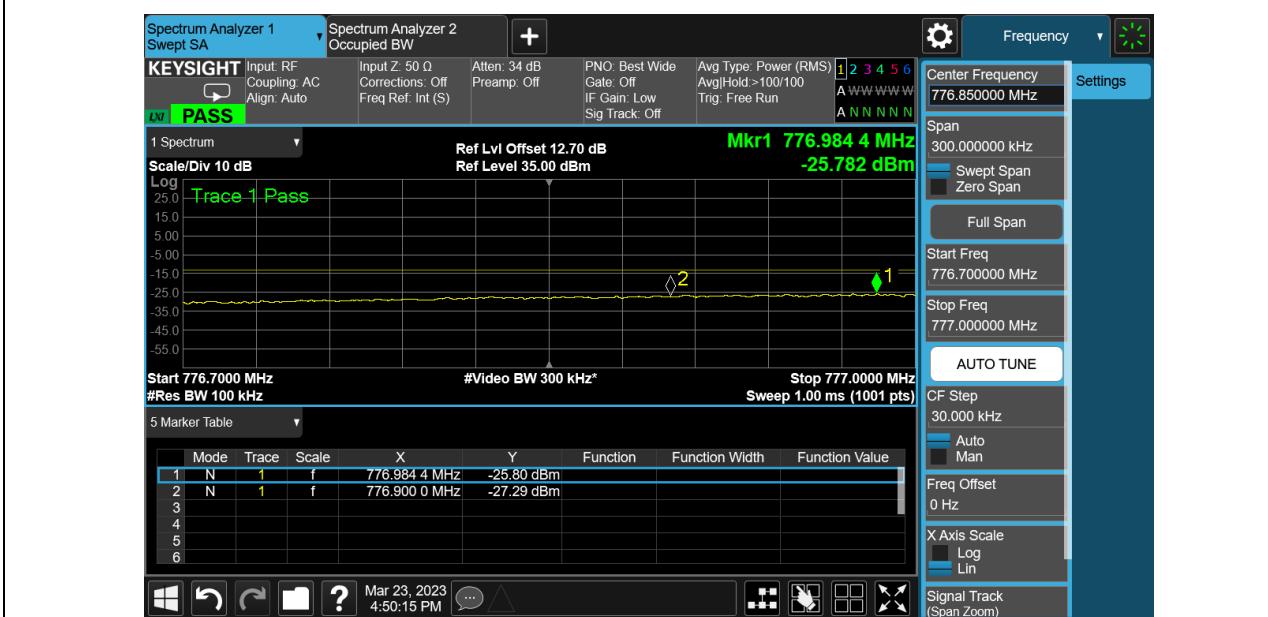
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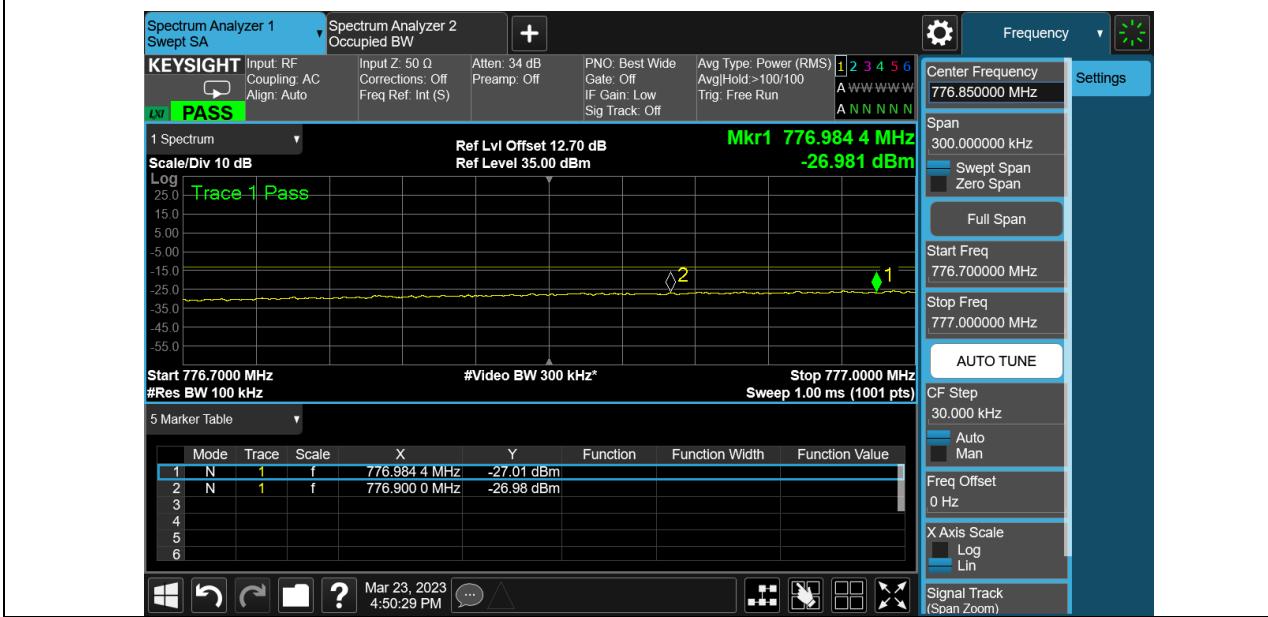
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Out-of-band/out-of-block emissions

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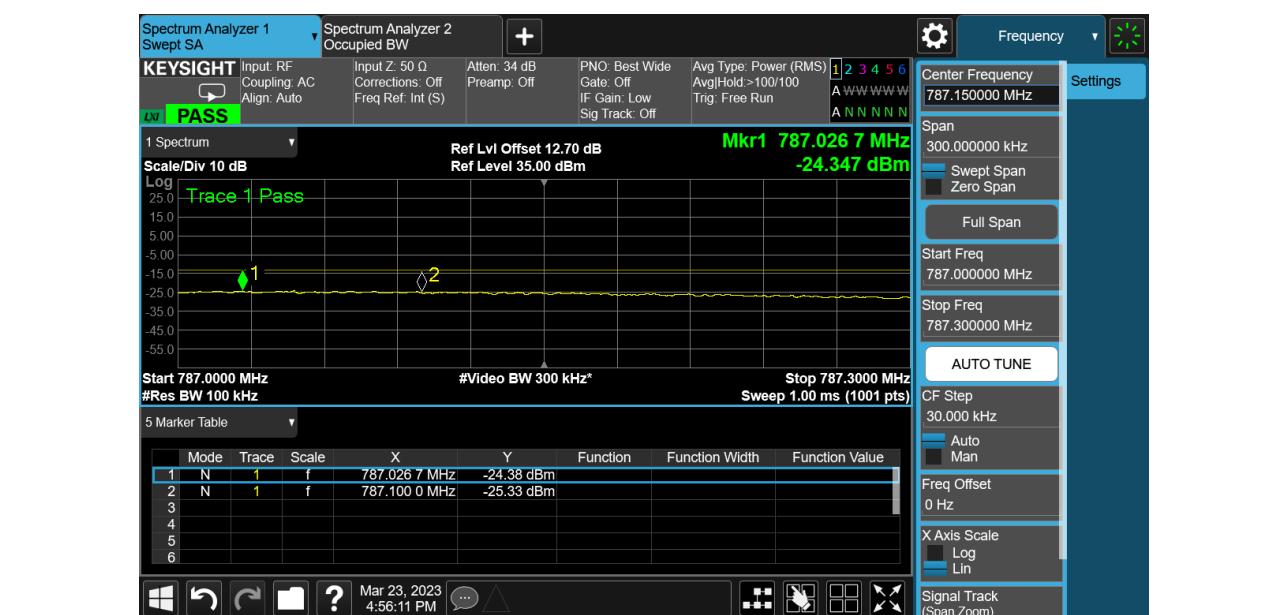
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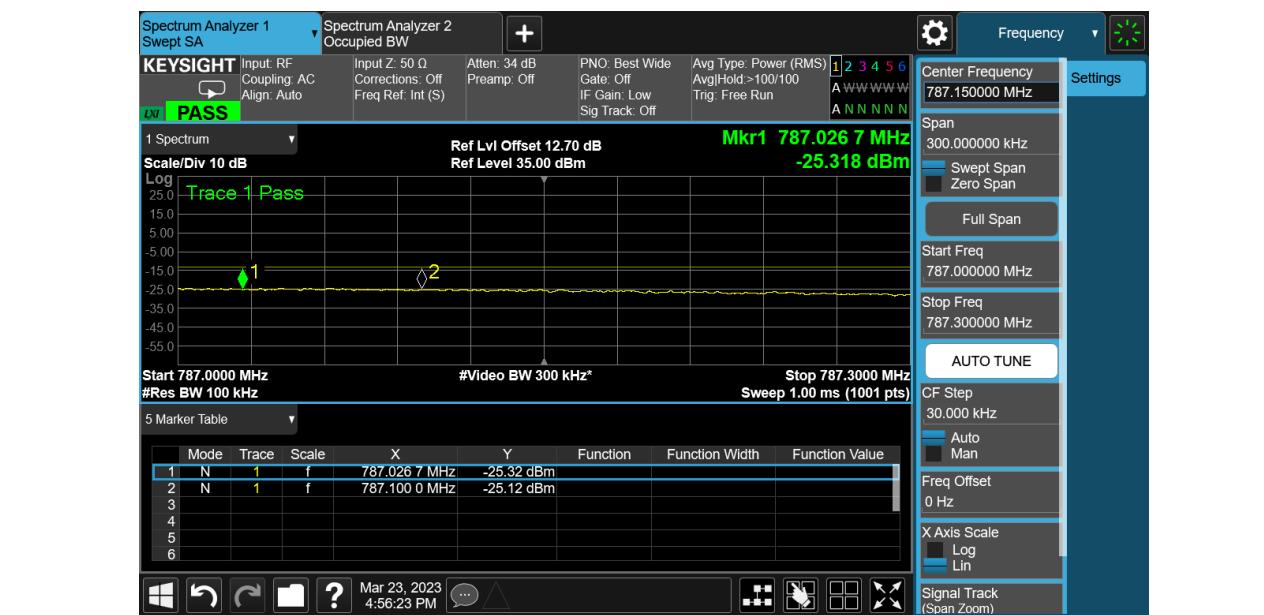
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Out-of-band/out-of-block emissions

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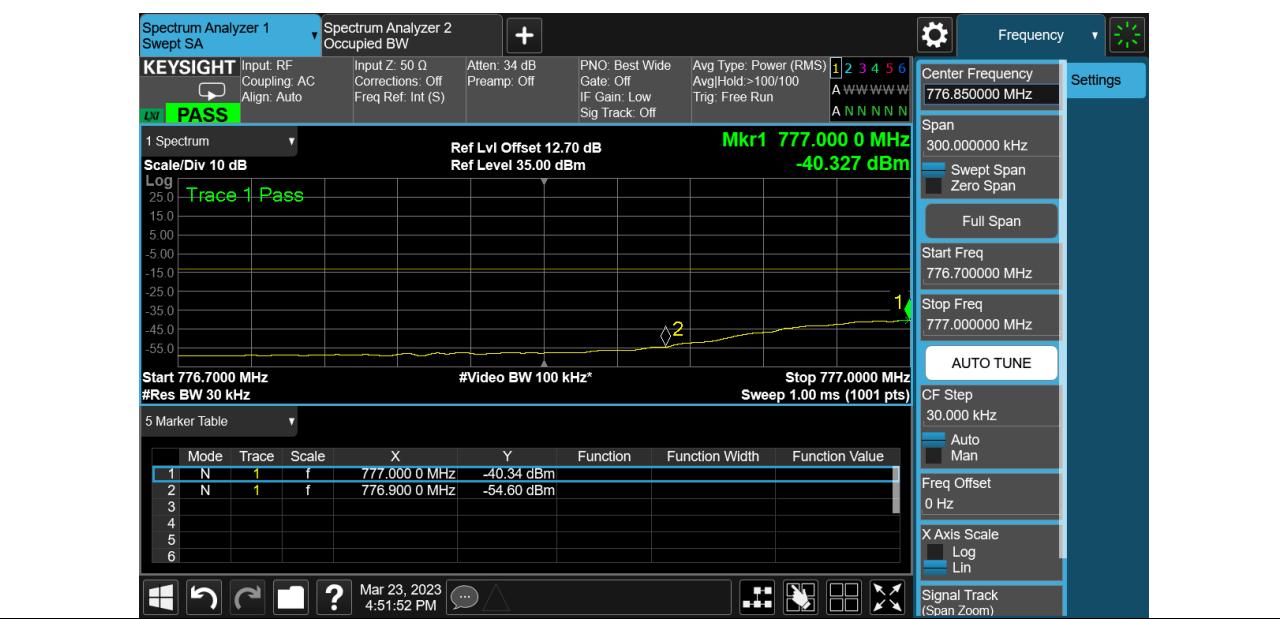
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Out-of-band/out-of-block emissions

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Uplink_GSM_One signal input_3dB above AGC_Lower edge



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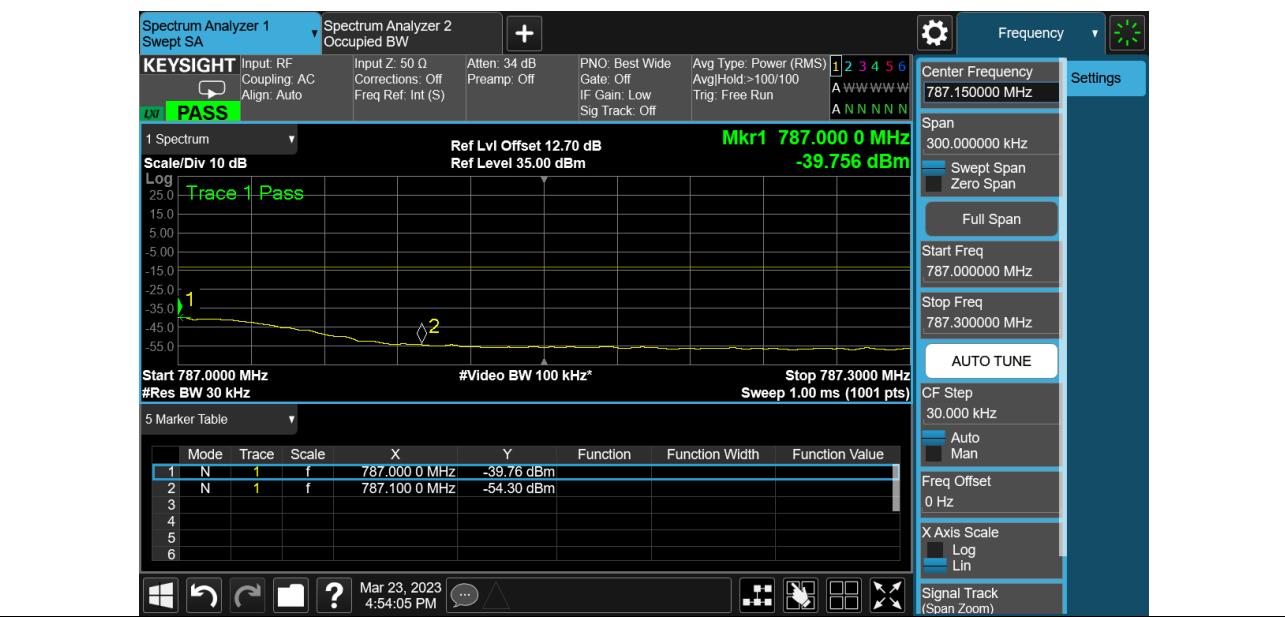
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Out-of-band/out-of-block emissions

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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	0.009-776.9	-32.96	≤-13	PASS
				787.1-1000	-29.52	≤-13	PASS
				1000-8000	-33.88	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-776.9	-43.76	≤-13	PASS
				787.1-1000	-44.87	≤-13	PASS
				1000-8000	-35.46	≤-13	PASS
	Middle Channel	GSM	Pre-AGC	0.009-776.9	-39.56	≤-13	PASS
				787.1-1000	-45.36	≤-13	PASS
				1000-8000	-41.17	≤-13	PASS
		5MHz AWGN	Pre-AGC	0.009-776.9	-30.08	≤-13	PASS
				787.1-1000	-29.89	≤-13	PASS
				1000-8000	-33.10	≤-13	PASS
	Low Channel	100MHz AWGN	Pre-AGC	0.009-776.9	-34.35	≤-13	PASS
				787.1-1000	-45.50	≤-13	PASS
				1000-8000	-37.32	≤-13	PASS
		GSM	Pre-AGC	0.009-776.9	-45.35	≤-13	PASS
				787.1-1000	-38.16	≤-13	PASS
				1000-8000	-41.25	≤-13	PASS
		5MHz AWGN	Pre-AGC	0.009-776.9	-29.34	≤-13	PASS
				787.1-1000	-37.18	≤-13	PASS
				1000-8000	-40.61	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-776.9	-41.04	≤-13	PASS
				787.1-1000	-41.71	≤-13	PASS
				1000-8000	-38.03	≤-13	PASS
		GSM	Pre-AGC	0.009-776.9	-37.57	≤-13	PASS
				787.1-1000	-31.37	≤-13	PASS
				1000-8000	-44.74	≤-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,

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

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

Conducted spurious emissions						
Test Path	Test Channel	Test Signal	Signal Level	Frequency range (MHz)	Worst conducted test level (dBm)	Verdict
Uplink	High Channel	5MHz AWGN	Pre-AGC	1559-1610	-56.21	PASS
		100MHz AWGN	Pre-AGC	1559-1610	-55.84	PASS
		GSM	Pre-AGC	1559-1610	-56.03	PASS
	Middle Channel	5MHz AWGN	Pre-AGC	1559-1610	-56.28	PASS
		100MHz AWGN	Pre-AGC	1559-1610	-56.37	PASS
		GSM	Pre-AGC	1559-1610	-55.86	PASS
	Low Channel	5MHz AWGN	Pre-AGC	1559-1610	-55.36	PASS
		100MHz AWGN	Pre-AGC	1559-1610	-56.11	PASS
		GSM	Pre-AGC	1559-1610	-55.84	PASS

Remark:

1. EIRP= conducted test level (dBW)+ antenna gain (dBi), the antenna gain is 14dBi declared by the manufacturer.

2. The EIRP of worst spurious emissions @ 1559-1610MHz is $-55.36\text{dBm} + 14\text{dBi} = -41.36\text{dBm} = -71.36\text{dBW}$, which doesn't exceed -70dBW limit.

3. No discrete emissions of less than 700Hz bandwidth were detected.

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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	782	+50	110	21	0.0269	PASS
		+40	110	32	0.0409	PASS
		+30	110	26	0.0332	PASS
		+20	110	21	0.0269	PASS
		+10	110	30	0.0384	PASS
		0	110	23	0.0294	PASS
		-10	110	18	0.0230	PASS
		-20	110	13	0.0166	PASS
		-30	110	24	0.0307	PASS

Frequency stability vs voltage						
Test path	Test Frequency (MHz)	Voltage (V AC)	Temperature (°C)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Uplink	782	93.5	20	32	0.0409	PASS
		126.5	20	24	0.0307	PASS

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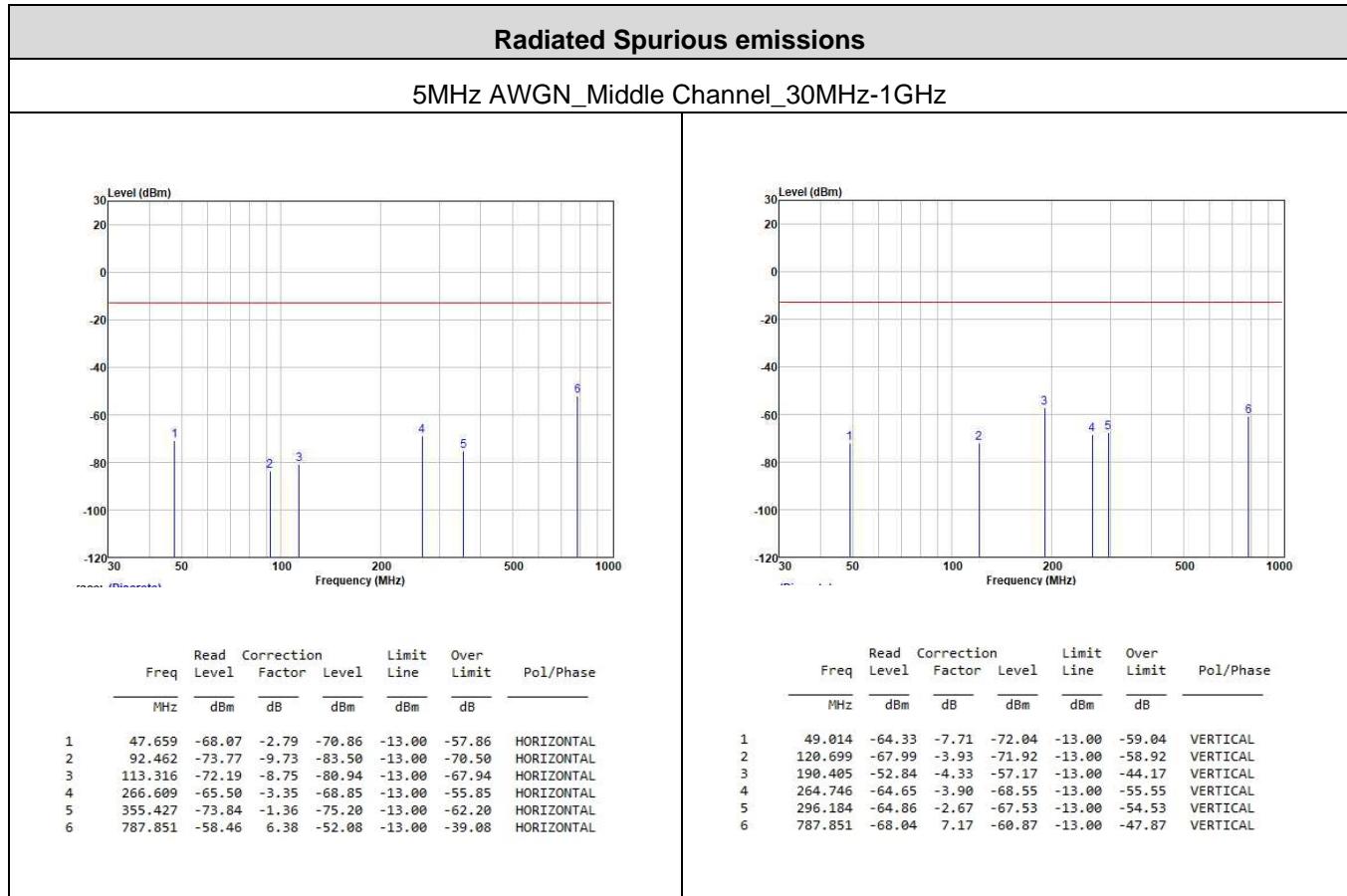
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7 Radiated Spurious emissions

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.

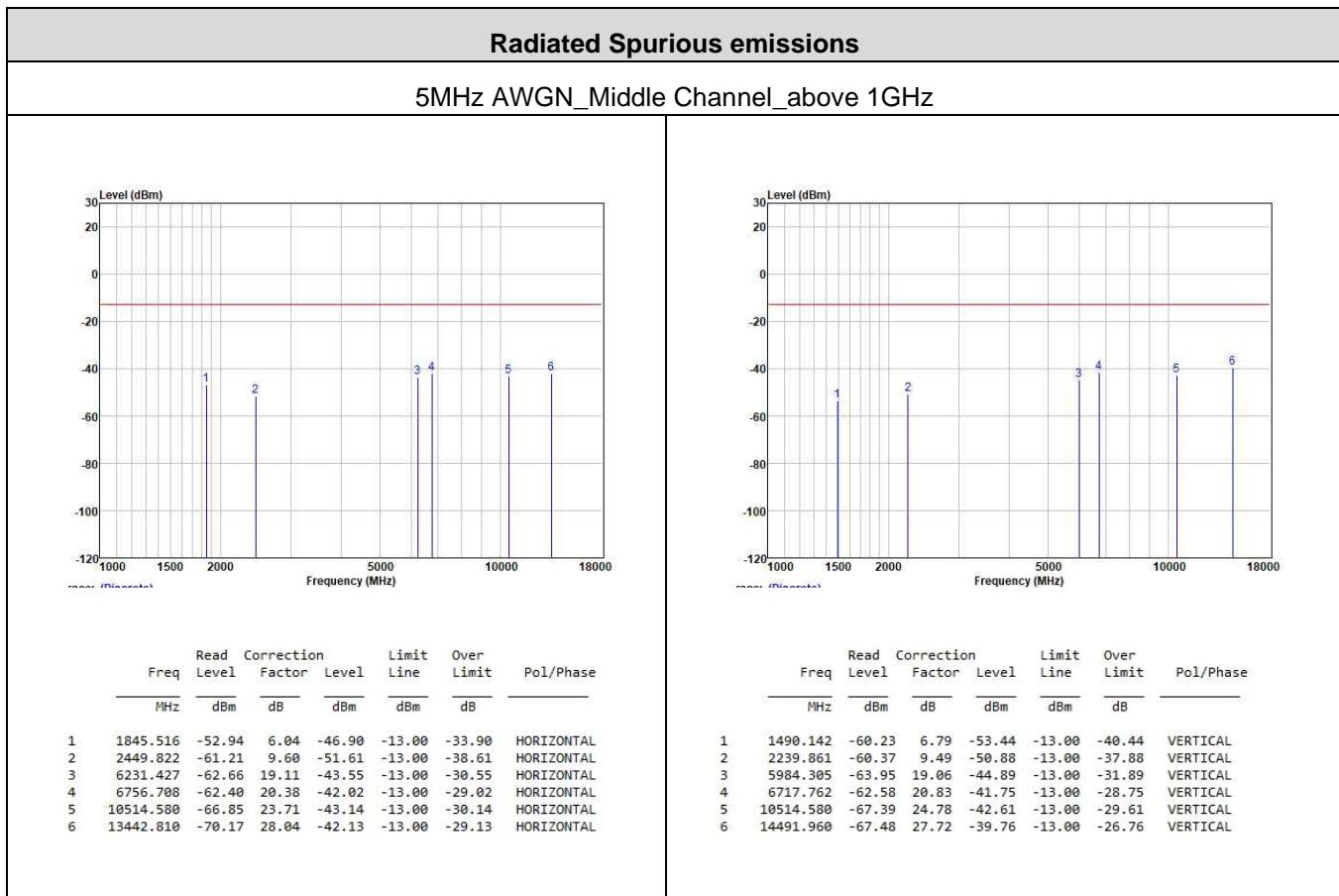


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--End of Appendix--

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