

Appendix -

Test Data and Result for report

GZCR230300022305

(EAWS band)

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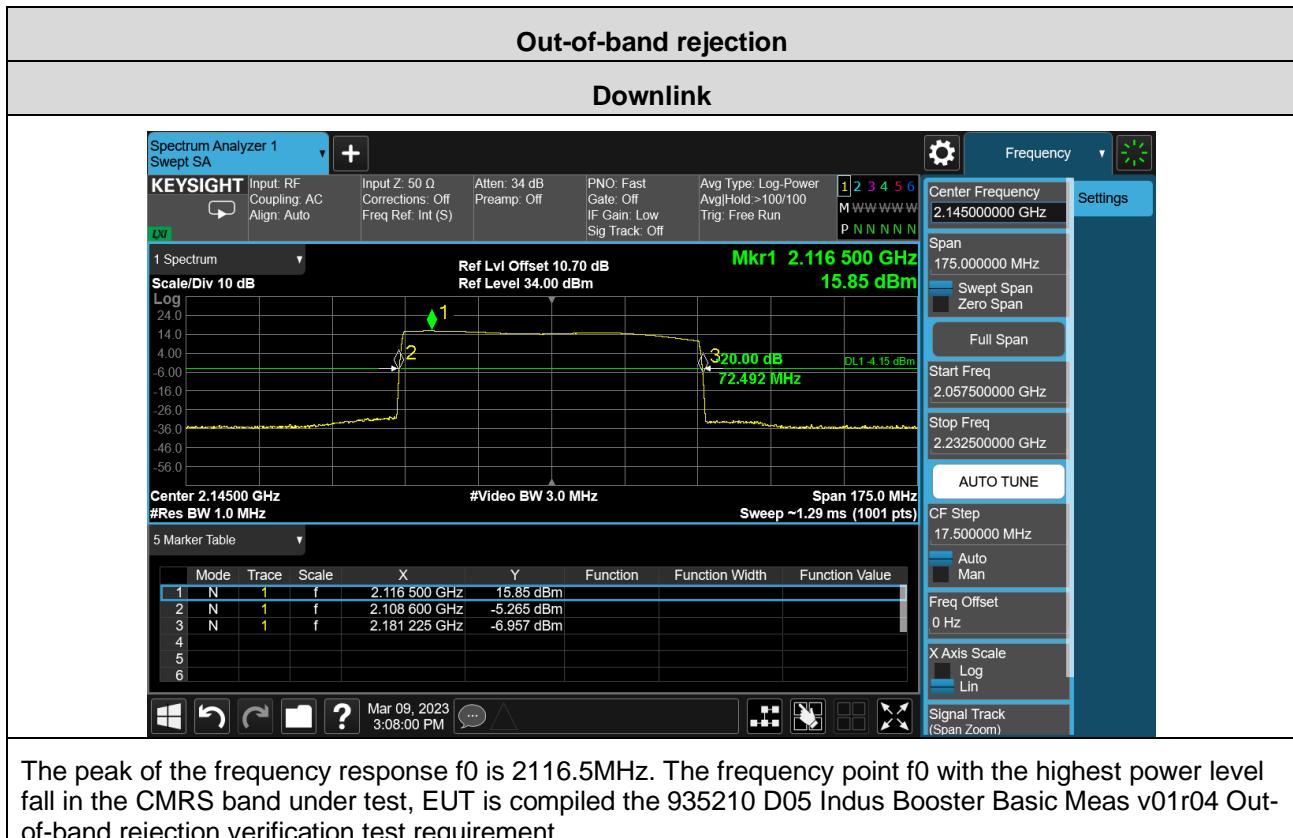
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1 Out-of-band rejection



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2 Input versus Output comparison

Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
Downlink	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 EAWS 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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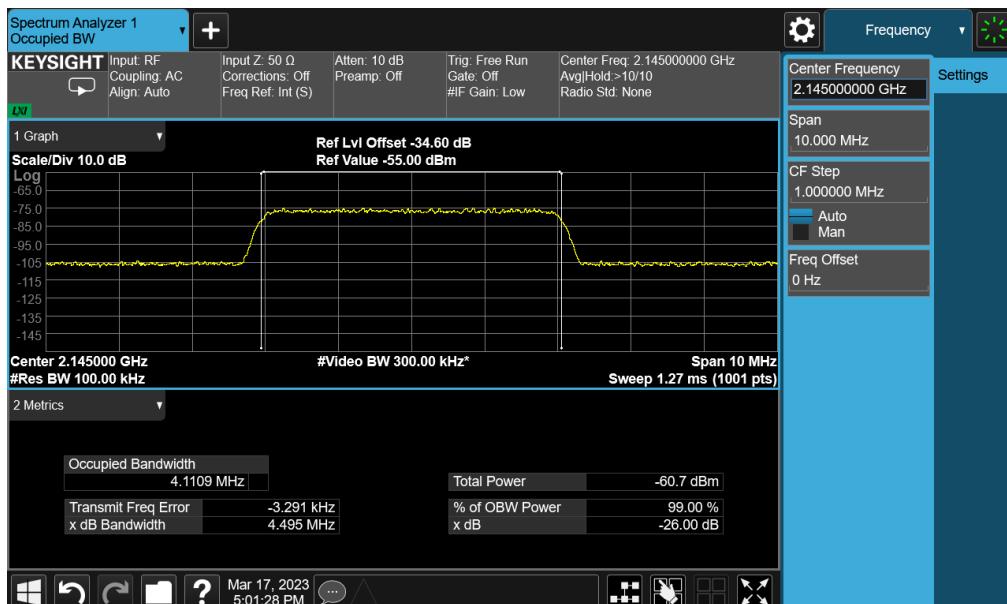
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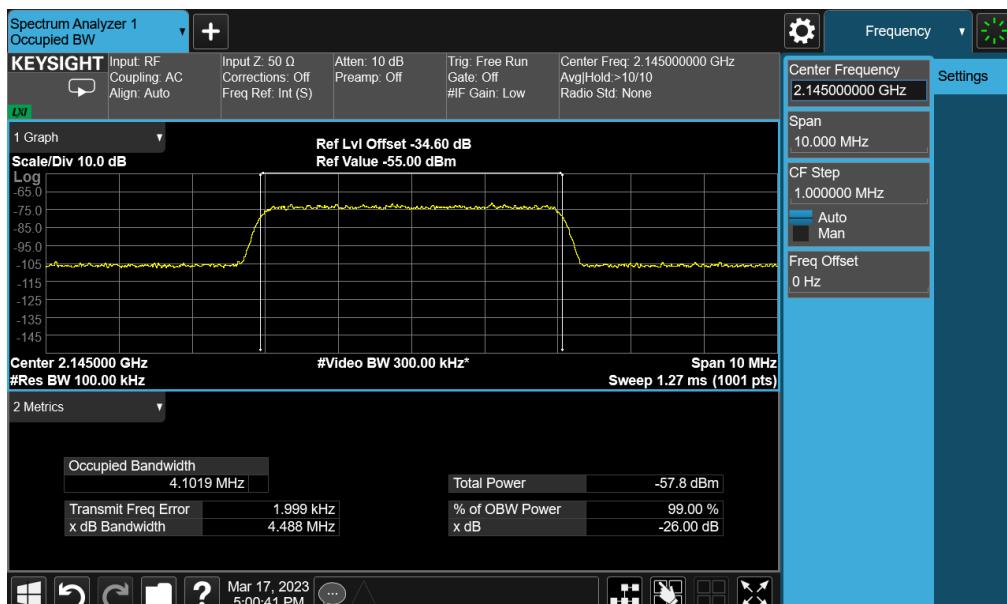
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99% OBW

Downlink_5MHz AWGN_Middle Channel_Input pre-AGC



Downlink_5MHz AWGN_Middle Channel_Input 3dB above AGC



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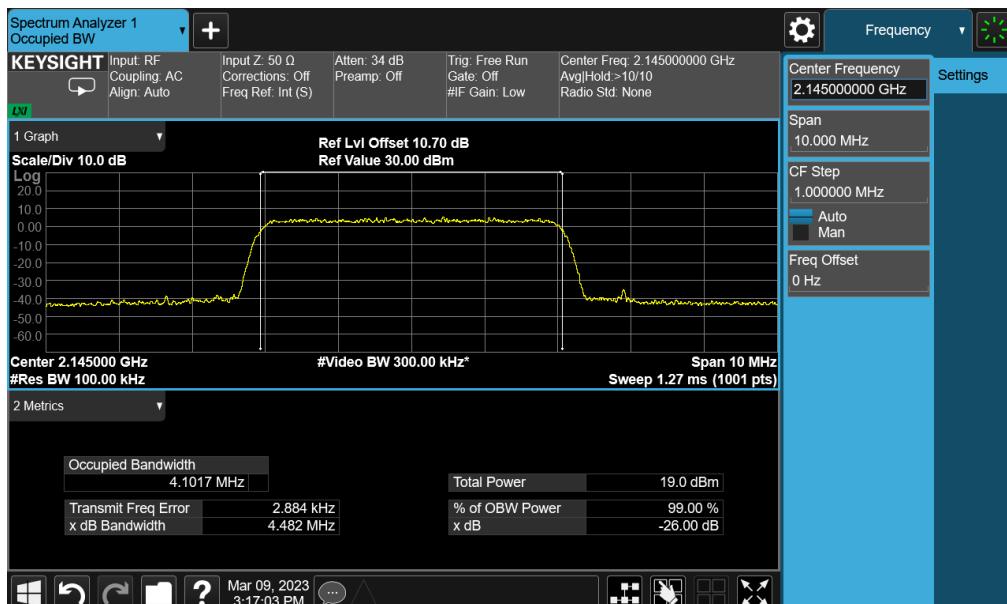
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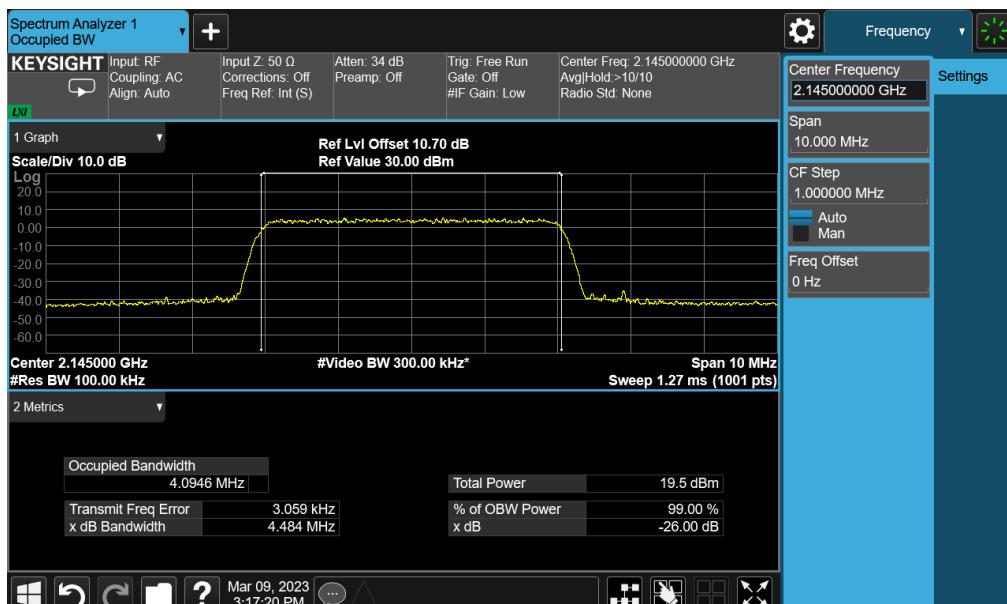
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99% OBW

Downlink_5MHz AWGN_Middle Channel_Output pre-AGC



Downlink_5MHz AWGN_Middle Channel_Output 3dB above AGC



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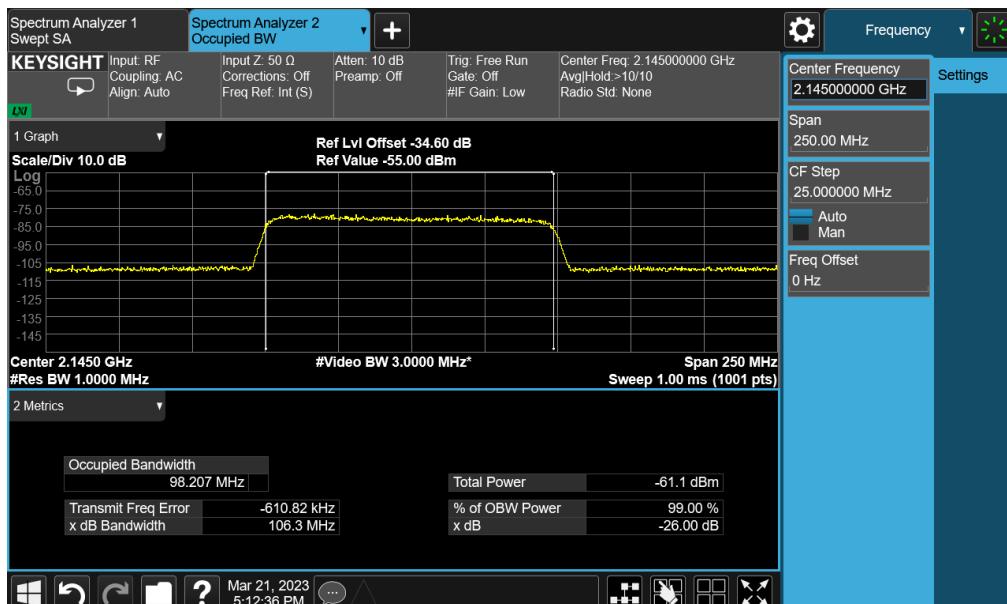
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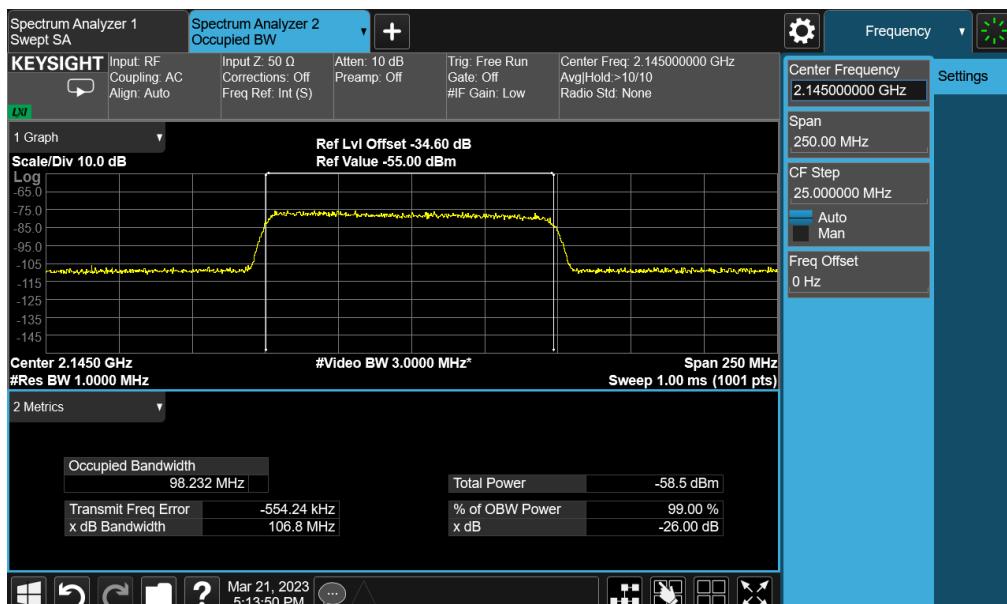
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Downlink_100MHz AWGN_Middle Channel_Input pre-AGC



Downlink_100MHz AWGN_Middle Channel_Input 3dB above AGC



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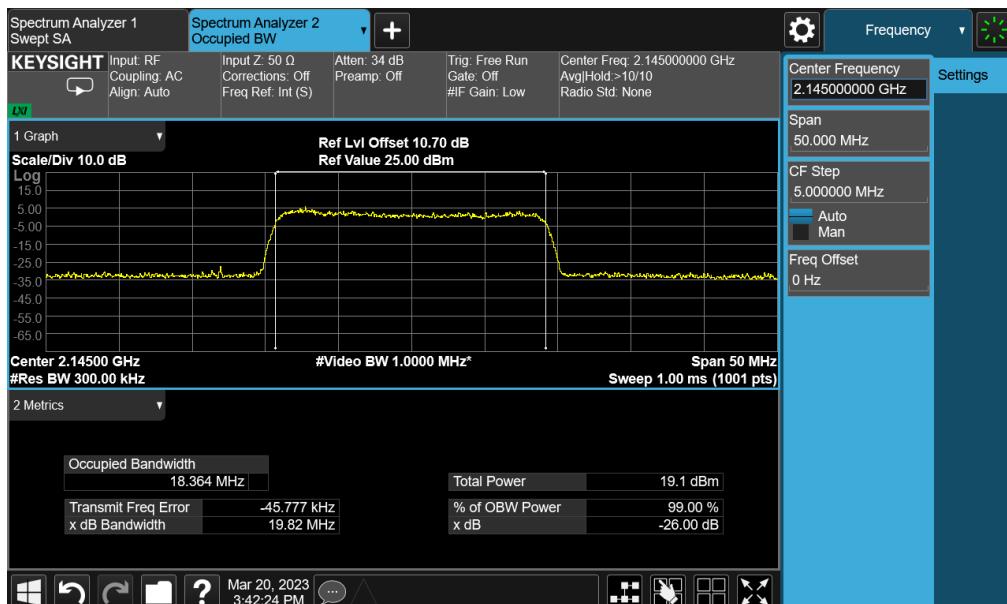
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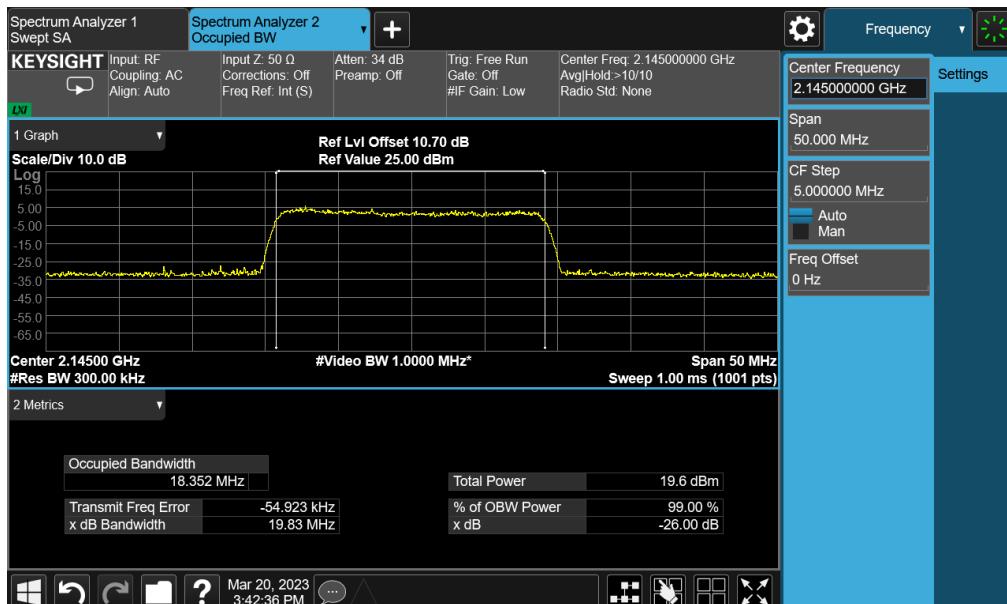
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99% OBW

Downlink_100MHz AWGN_Middle Channel_Output pre-AGC



Downlink_100MHz AWGN_Middle Channel_Output 3dB above AGC

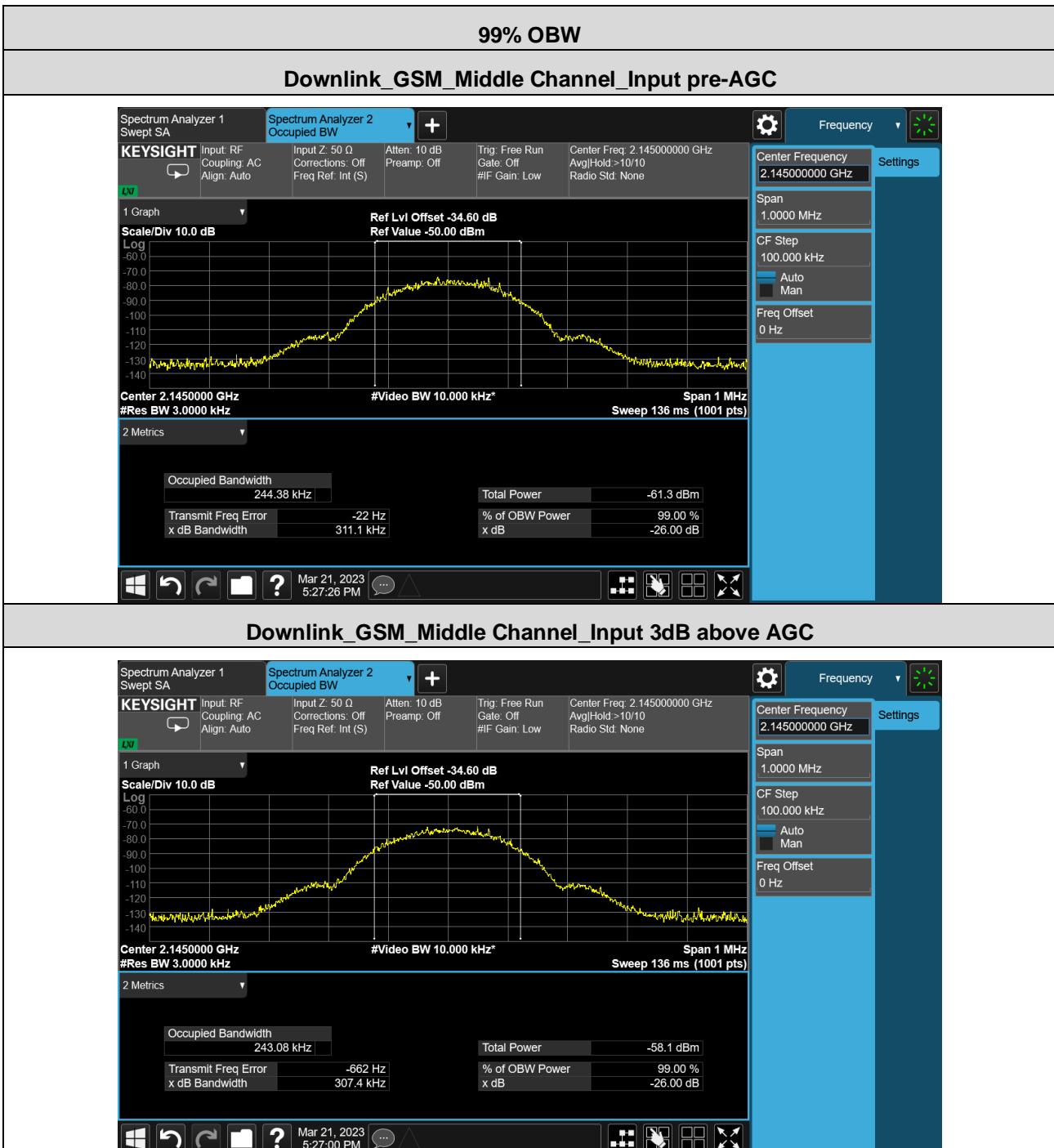


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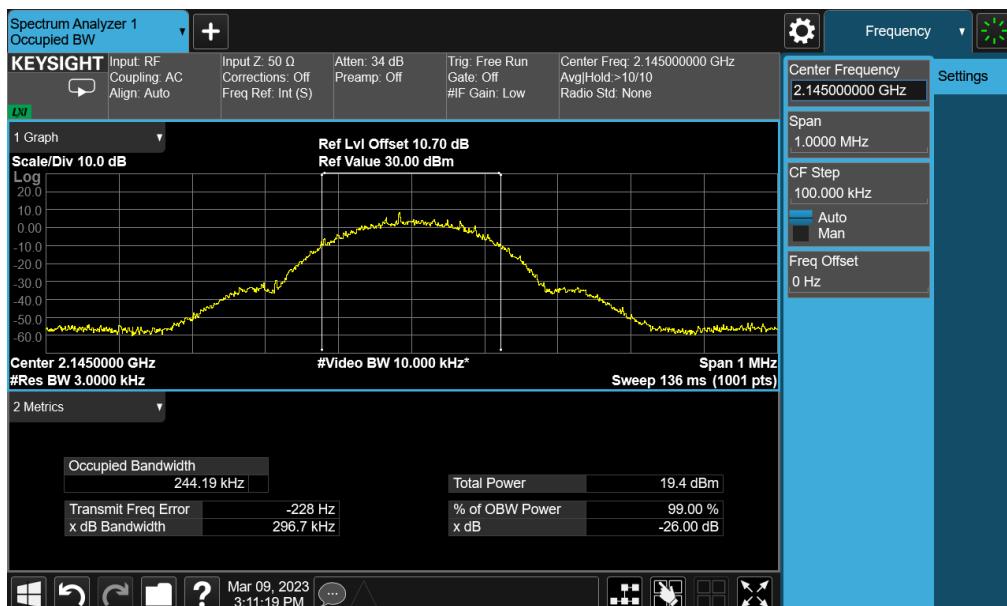
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99% OBW

Downlink_GSM_Middle Channel_Output pre-AGC



Downlink_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)	EIRP (W)	Gain (dB)
Downlink	2116.5	5MHz AWGN	Pre-AGC	-60.00	20.40	0.28	80.40
			3dB above AGC	-57.00	20.15	0.26	/
		100MHz AWGN	Pre-AGC	-60.00	17.81	0.16	77.81
			3dB above AGC	-57.00	16.96	0.13	/
		GSM	Pre-AGC	-60.00	20.80	0.31	80.80
			3dB above AGC	-57.00	20.45	0.28	/

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 4dBi declared by the manufacturer.

Mean output power						
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	EIRP (W/MHz)	Verdict
Downlink	2116.5	5MHz AWGN	Pre-AGC	14.62	0.073	PASS
			3dB above AGC	13.89	0.062	PASS
		100MHz AWGN	Pre-AGC	-2.63	0.014	PASS
			3dB above AGC	-2.95	0.013	PASS
		GSM	Pre-AGC	20.72	0.30	PASS
			3dB above AGC	20.67	0.30	PASS

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 4dBi declared by the manufacturer.
3. 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
Downlink	2116.5	5MHz AWGN	Pre-AGC	7.79	≤13	PASS
			3dB above AGC	7.63		PASS
		100MHz AWGN	Pre-AGC	8.01		PASS
			3dB above AGC	8.33		PASS
		GSM	Pre-AGC	0.15		PASS
			3dB above AGC	0.17		PASS

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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	
Downlink	lower edge	5MHz AWGN	One signal input	Pre-AGC	-26.25	≤-13	PASS	
				3dB above AGC	-26.03		PASS	
			Two signals input	Pre-AGC	-22.07		PASS	
				3dB above AGC	-26.03		PASS	
	upper edge		One signal input	Pre-AGC	-43.89		PASS	
				3dB above AGC	-43.63		PASS	
			Two signals input	Pre-AGC	-41.45		PASS	
				3dB above AGC	-40.23		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,
Rated power P = 19dBm = 0.08W, so
the limit = $19\text{dBm} - [43 + 10 \log_{10}(0.08\text{W})]$ dB = -13dBm

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	
Downlink	lower edge	100MHz AWGN	One signal input	Pre-AGC	-15.76	≤-13	PASS	
				3dB above AGC	-16.31		PASS	
			Two signals input	Pre-AGC	-15.43		PASS	
				3dB above AGC	-15.16		PASS	
	upper edge		One signal input	Pre-AGC	-19.62		PASS	
				3dB above AGC	-19.74		PASS	
			Two signals input	Pre-AGC	-19.00		PASS	
				3dB above AGC	-18.73		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,
Rated power P = 19dBm = 0.08W, so
the limit = $19\text{dBm} - [43 + 10 \log_{10}(0.08\text{W})]$ dB = -13dBm

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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	
Downlink	lower edge	GSM	One signal input	Pre-AGC	-34.95	≤-13	PASS	
				3dB above AGC	-34.37		PASS	
			Two signals input	Pre-AGC	-33.87		PASS	
				3dB above AGC	-34.16		PASS	
	upper edge		One signal input	Pre-AGC	-42.71		PASS	
				3dB above AGC	-43.02		PASS	
			Two signals input	Pre-AGC	-42.09		PASS	
				3dB above AGC	-42.27		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,
Rated power P = 19dBm = 0.08W, so
the limit = 19dBm - [43 + 10 log10 (0.08W)] dB = -13dBm

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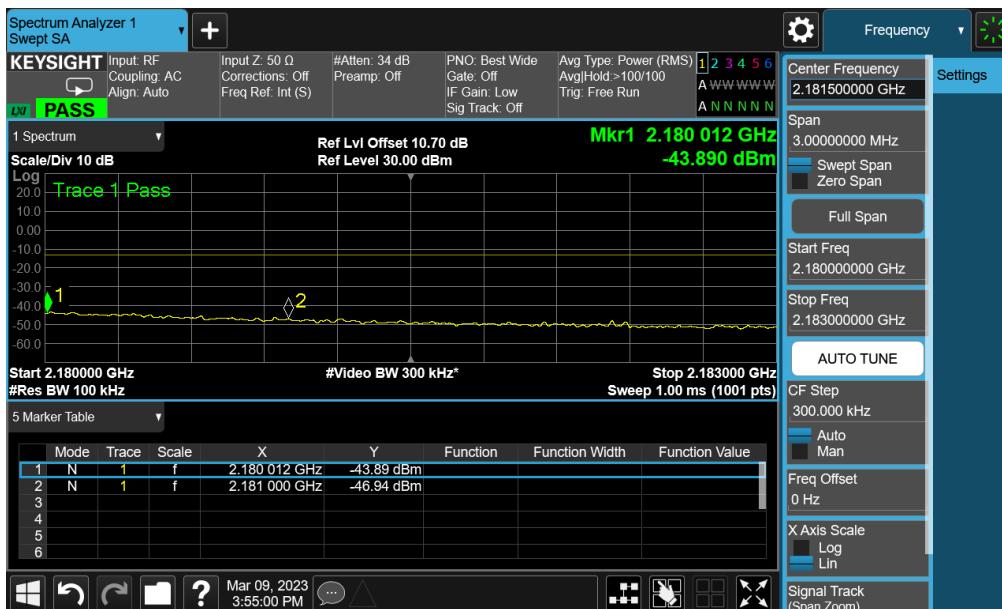
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Out-of-band/out-of-block emissions

Downlink_5MHz AWGN_One signal input_Pre-AGC_Upper edge



Downlink_5MHz AWGN_One signal input_3dB above AGC_Upper edge



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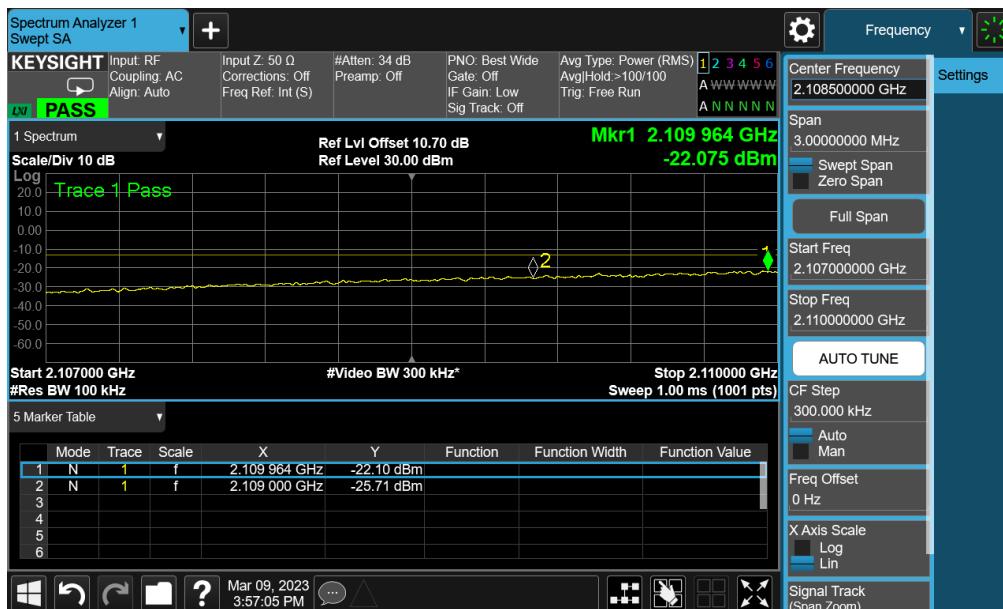
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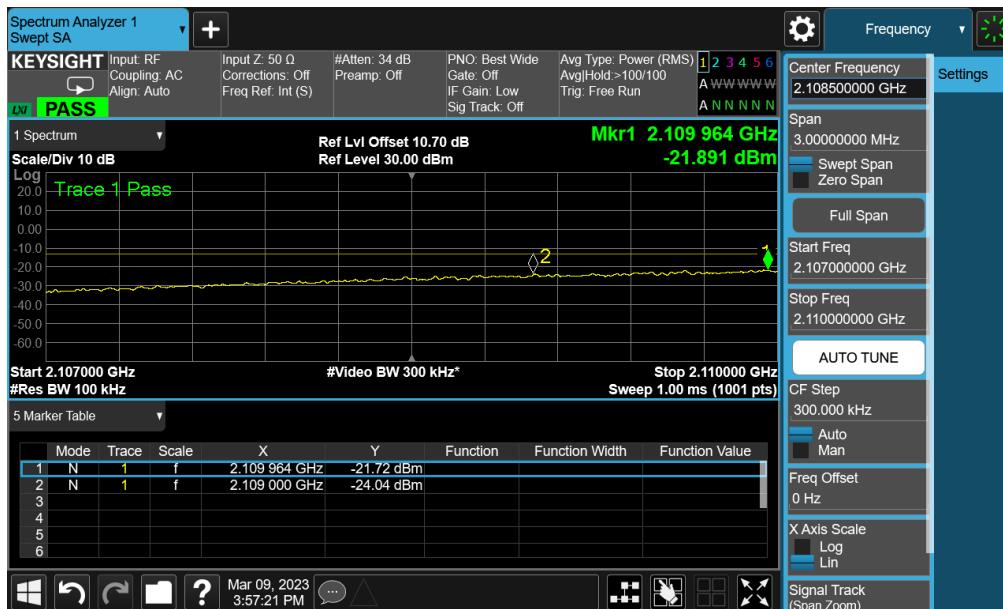
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Out-of-band/out-of-block emissions

Downlink_5MHz AWGN_Two signals input_Pre-AGC_Lower edge



Downlink_5MHz AWGN_Two signals input_3dB above AGC_Lower edge



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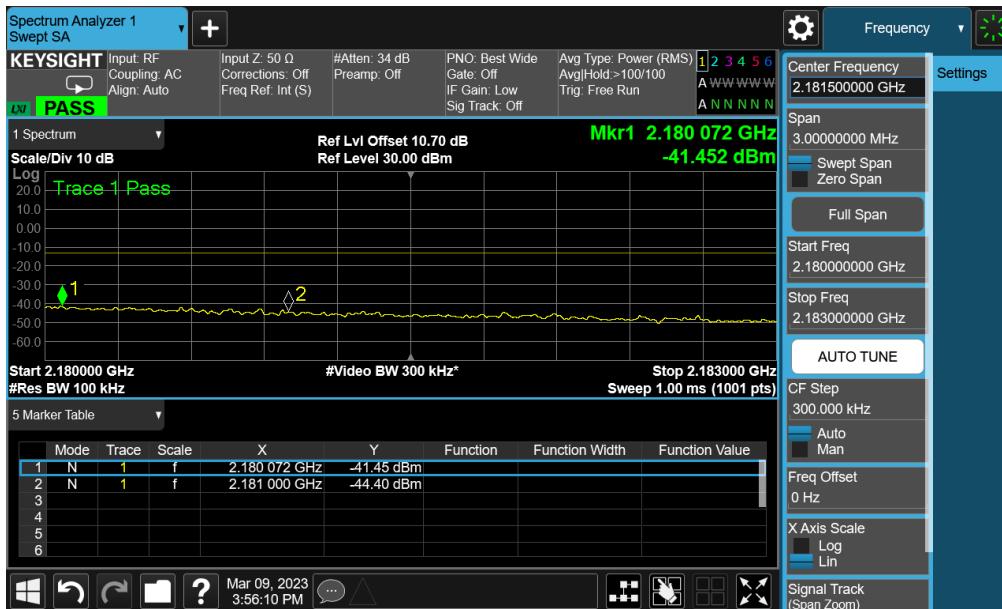
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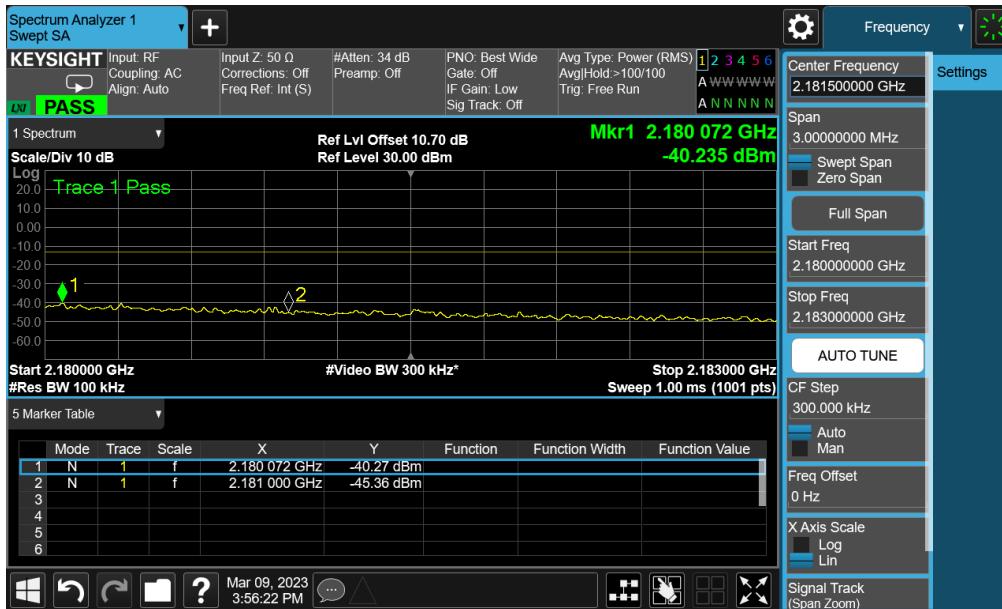
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Out-of-band/out-of-block emissions

Downlink_5MHz AWGN_Two signals input_Pre-AGC_Upper edge



Downlink_5MHz AWGN_Two signals input_3dB above AGC_Upper edge



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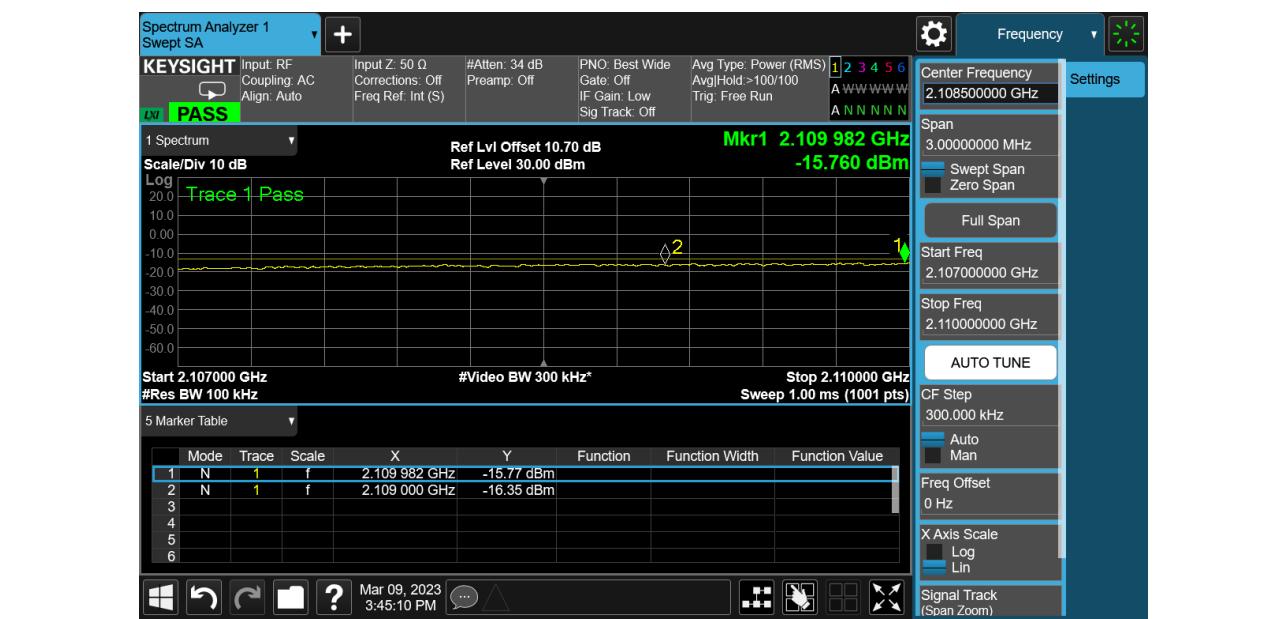
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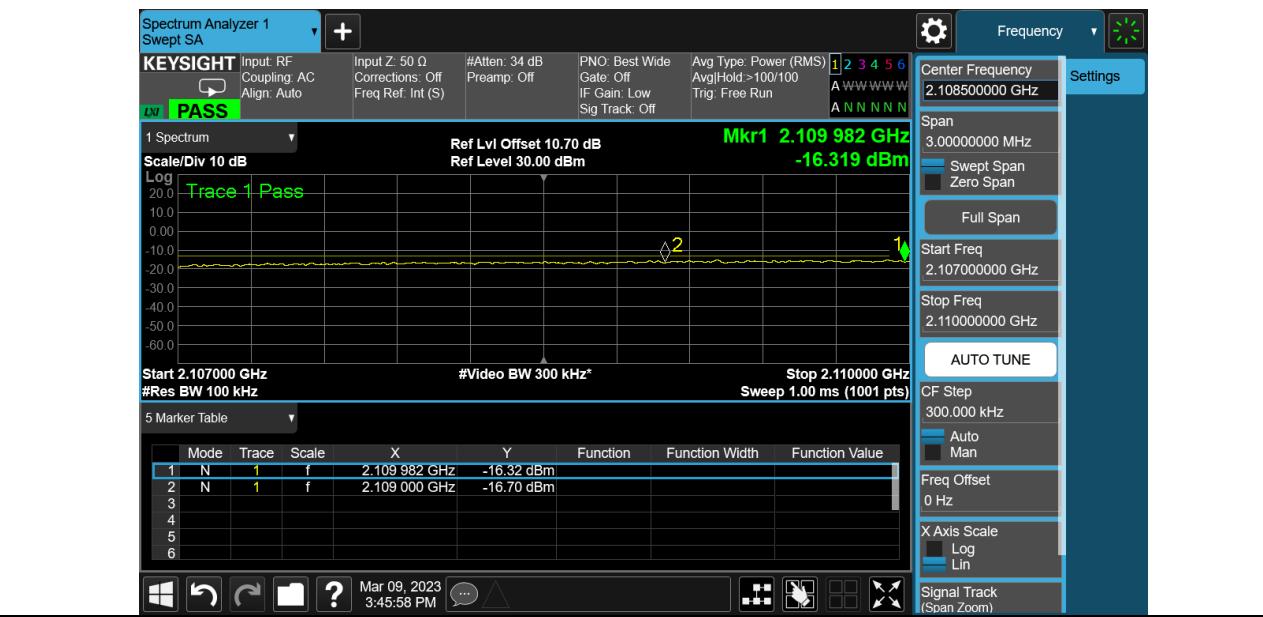
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Out-of-band/out-of-block emissions

Downlink_100MHz AWGN_One signal input_Pre-AGC_Lower edge



Downlink_100MHz AWGN_One signal input_3dB above AGC_Lower edge



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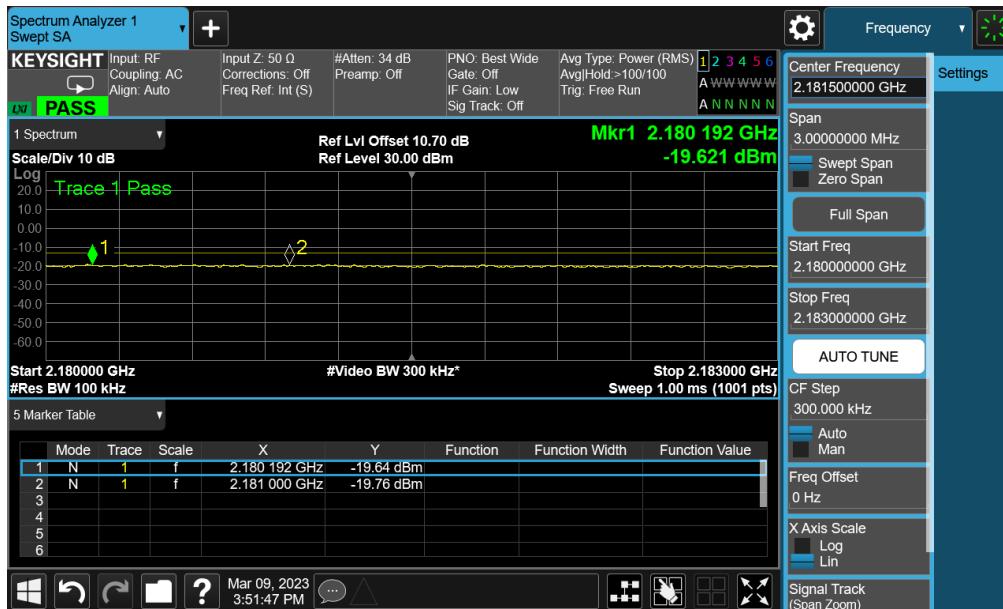
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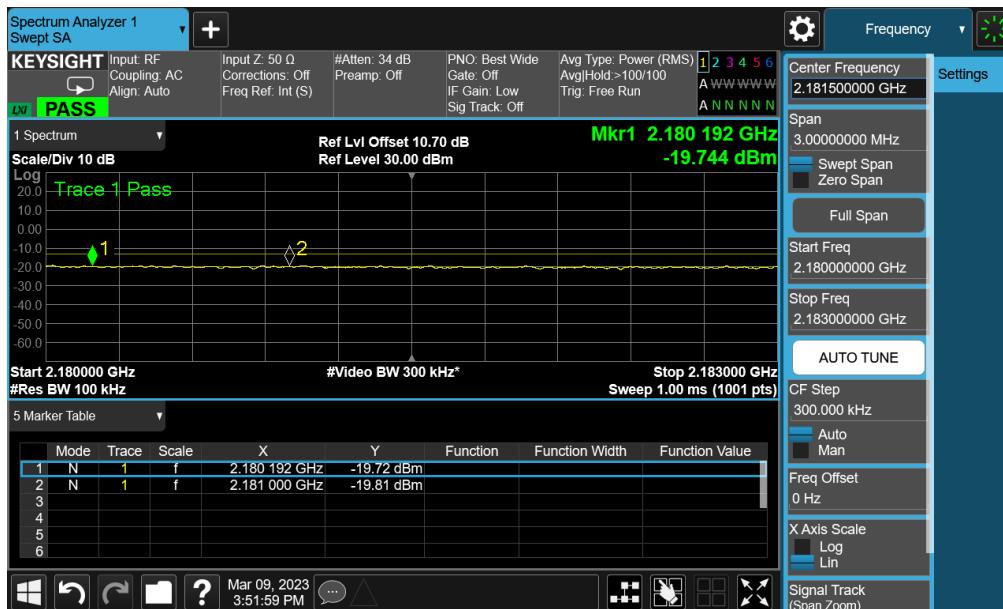
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Out-of-band/out-of-block emissions

Downlink_100MHz AWGN_One signal input_Pre-AGC_Upper edge



Downlink_100MHz AWGN_One signal input_3dB above AGC_Upper edge



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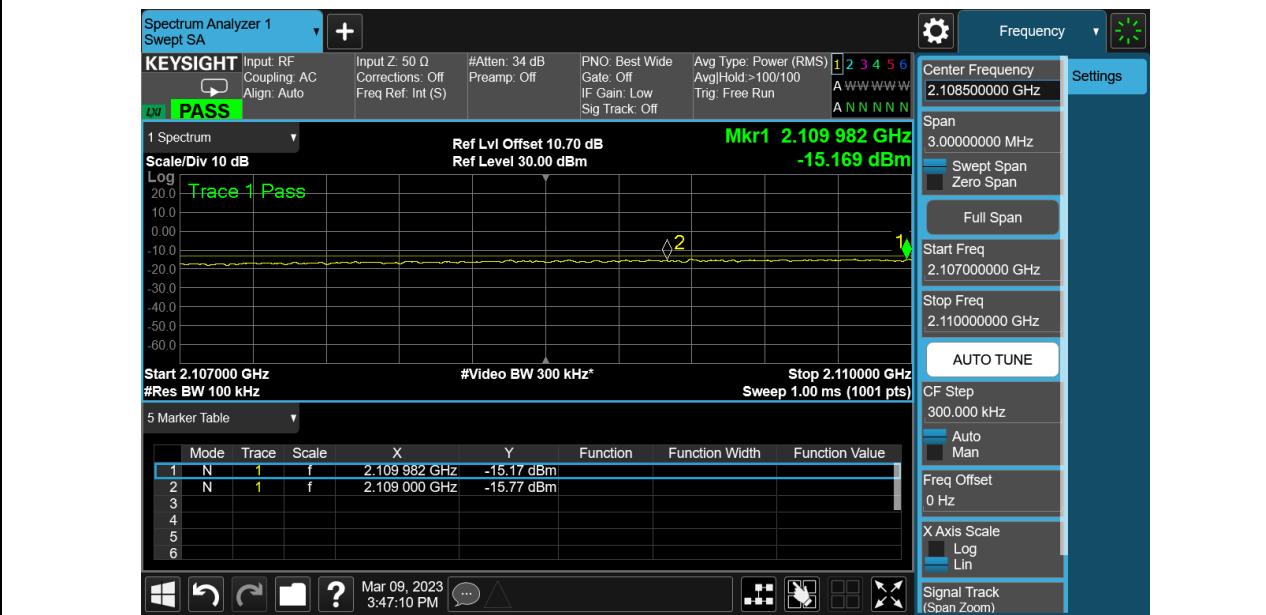
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Out-of-band/out-of-block emissions

Downlink_100MHz AWGN_Two signals input_Pre-AGC_Lower edge



Downlink_100MHz AWGN_Two signals input_3dB above AGC_Lower edge



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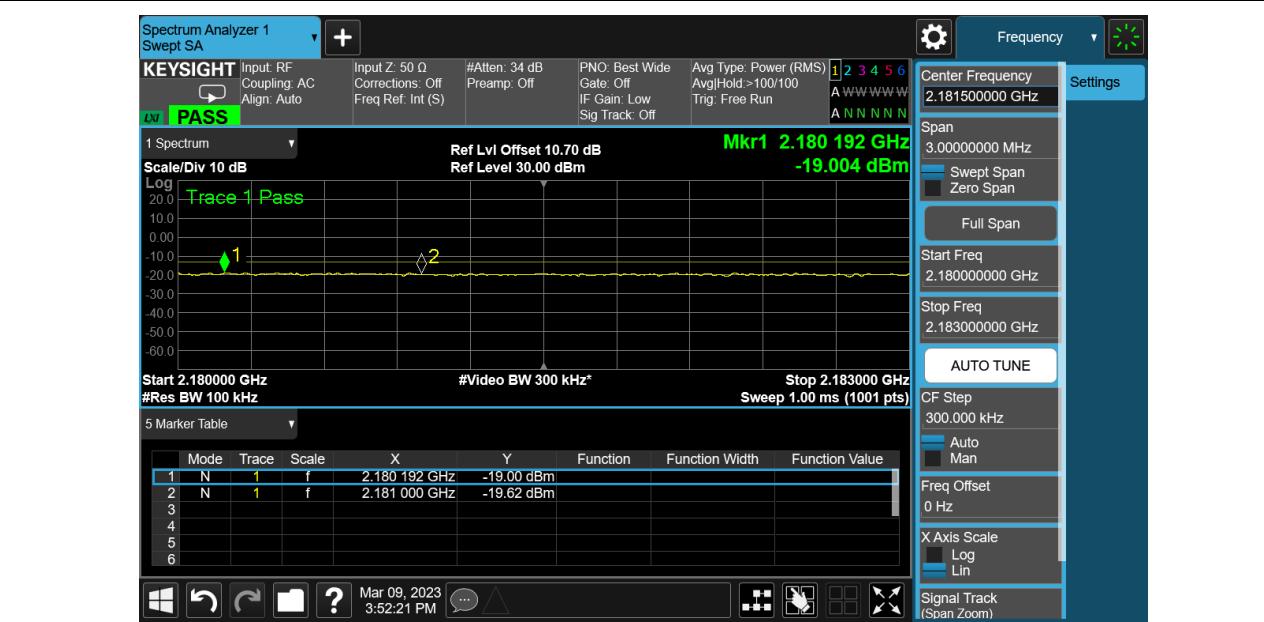
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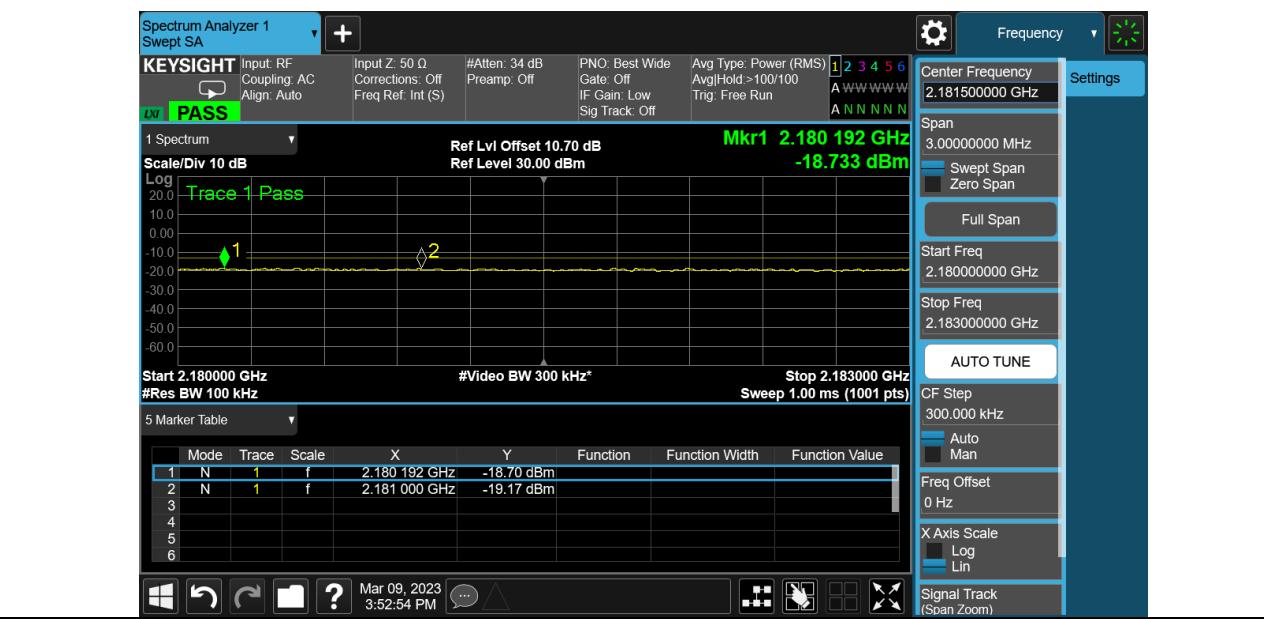
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Out-of-band/out-of-block emissions

Downlink_100MHz AWGN_Two signals input_Pre-AGC_Upper edge



Downlink_100MHz AWGN_Two signals input_3dB above AGC_Upper edge



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

Downlink_GSM_One signal input_Pre-AGC_Lower edge



Downlink_GSM_One signal input_3dB above AGC_Lower edge



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

Downlink_GSM_One signal input_Pre-AGC_Upper edge



Downlink_GSM_One signal input_3dB above AGC_Upper edge



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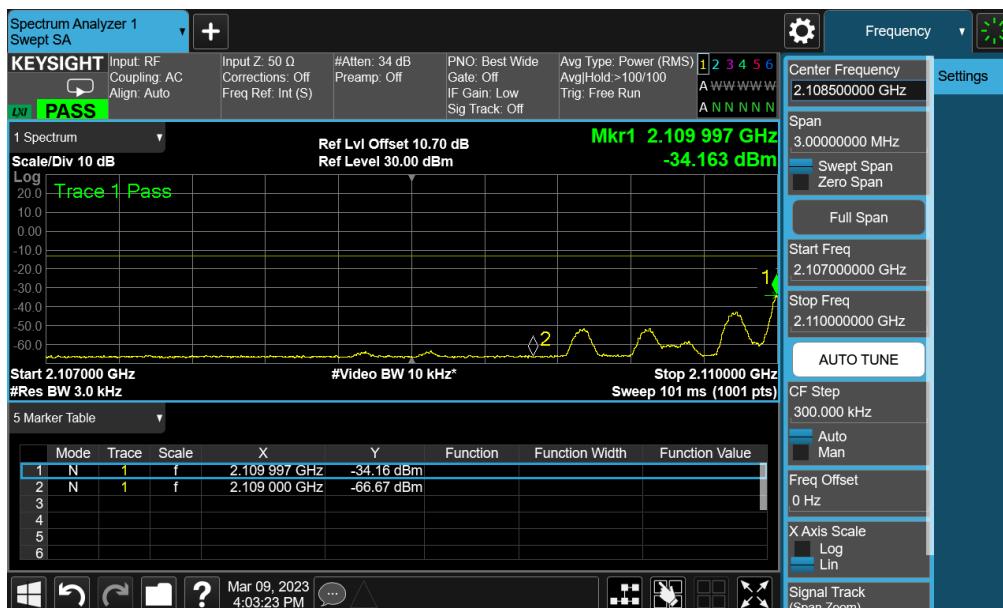
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Out-of-band/out-of-block emissions

Downlink_GSM_Two signals input_Pre-AGC_Lower edge



Downlink_GSM_Two signals input_3dB above AGC_Lower edge



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

Downlink_GSM_Two signals input_Pre-AGC_Upper edge



Downlink_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
Downlink	High Channel	5MHz AWGN	Pre-AGC	0.009-1000	-44.32	≤-13	PASS
				1000-2109	-30.23	≤-13	PASS
				2181-22000	-40.53	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-1000	-45.73	≤-13	PASS
				1000-2109	-33.26	≤-13	PASS
				2181-22000	-41.12	≤-13	PASS
	Middle Channel	GSM	Pre-AGC	0.009-1000	-41.32	≤-13	PASS
				1000-2109	-29.89	≤-13	PASS
				2181-22000	-45.74	≤-13	PASS
		5MHz AWGN	Pre-AGC	0.009-1000	-39.84	≤-13	PASS
				1000-2109	-27.48	≤-13	PASS
				2181-22000	-41.23	≤-13	PASS
	Low Channel	100MHz AWGN	Pre-AGC	0.009-1000	-40.02	≤-13	PASS
				1000-2109	-30.26	≤-13	PASS
				2181-22000	-43.28	≤-13	PASS
		GSM	Pre-AGC	0.009-1000	-41.23	≤-13	PASS
				1000-2109	-30.02	≤-13	PASS
				2181-22000	-43.74	≤-13	PASS
		5MHz AWGN	Pre-AGC	0.009-1000	-40.26	≤-13	PASS
				1000-2109	-31.23	≤-13	PASS
				2181-22000	-43.24	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-1000	-41.24	≤-13	PASS
				1000-2109	-28.38	≤-13	PASS
				2181-22000	-43.29	≤-13	PASS
		GSM	Pre-AGC	0.009-1000	-39.86	≤-13	PASS
				1000-2109	-27.94	≤-13	PASS
				2181-22000	-42.36	≤-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 DC)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Downlink	2145	+50	48	23	0.0107	PASS
		+40	48	27	0.0126	PASS
		+30	48	35	0.0163	PASS
		+20	48	18	0.0084	PASS
		+10	48	21	0.0098	PASS
		0	48	32	0.0149	PASS
		-10	48	27	0.0126	PASS
		-20	48	14	0.0065	PASS
		-30	48	-17	-0.0079	PASS

Frequency stability vs voltage						
Test path	Test Frequency (MHz)	Voltage (V DC)	Temperature (°C)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Downlink	2145	40.8	20	24	0.0112	PASS
		55.2	20	31	0.0145	PASS

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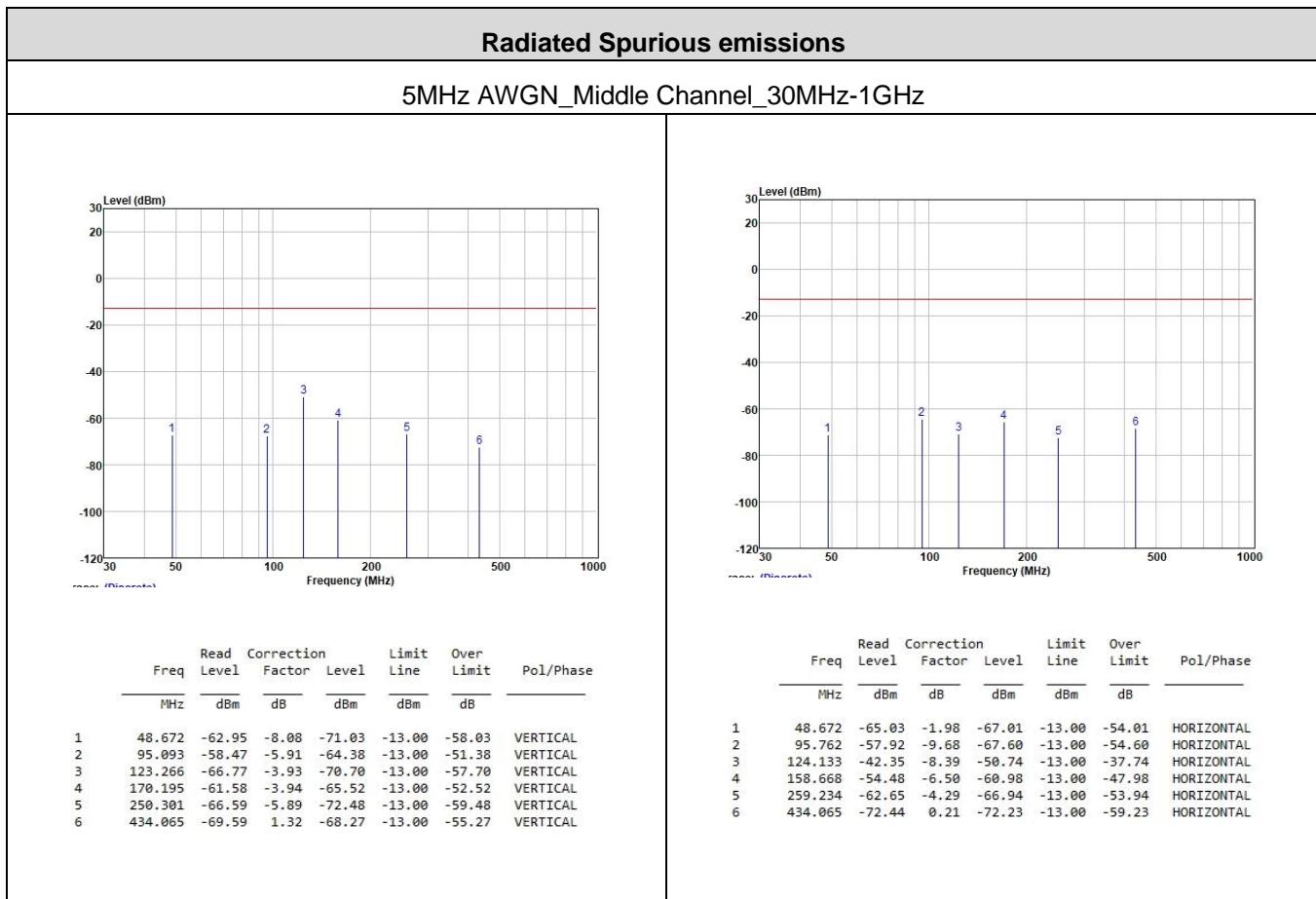
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7 Radiated Spurious emissions

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.

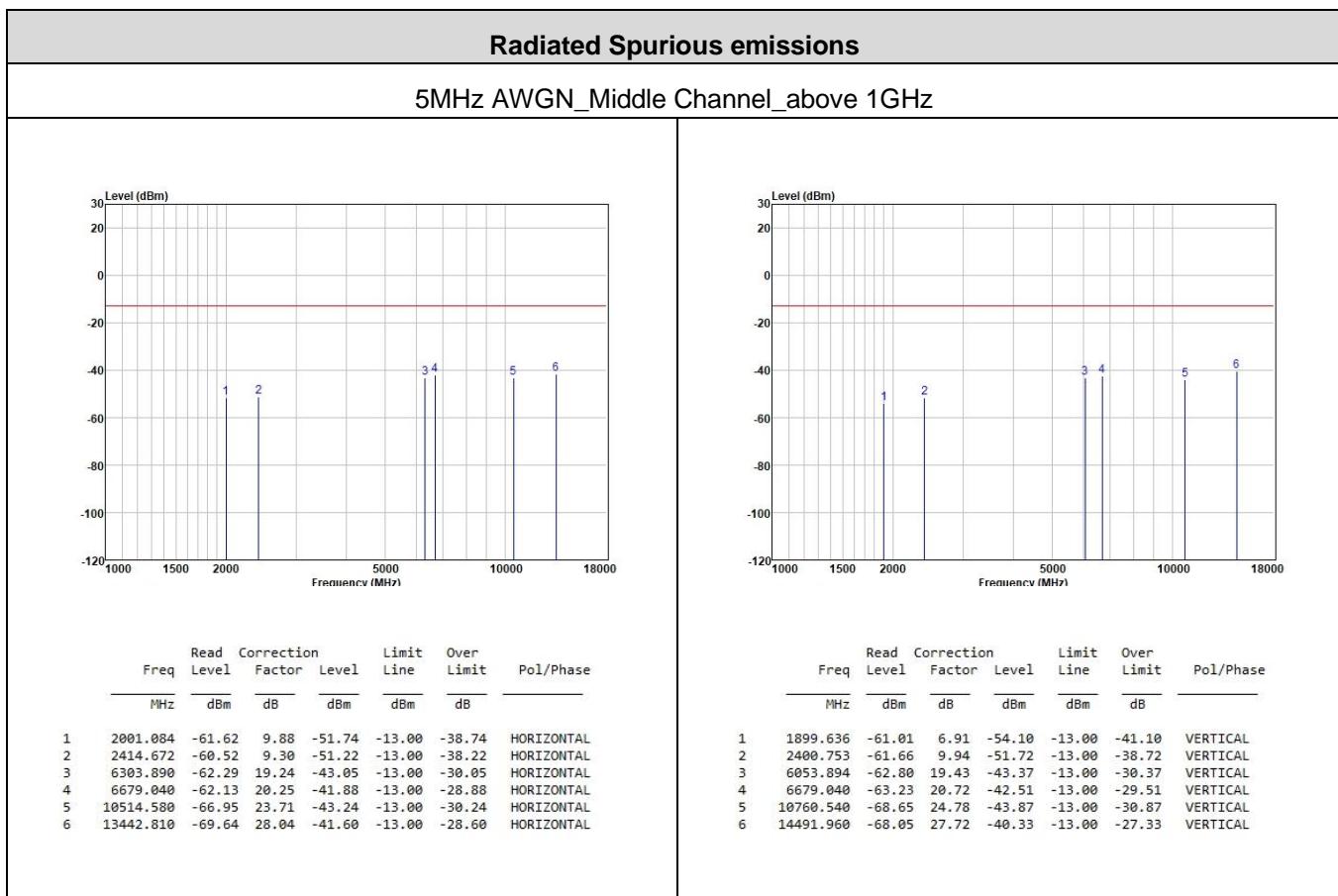


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--End of Appendix--

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