

Appendix -

Test Data and Result for report

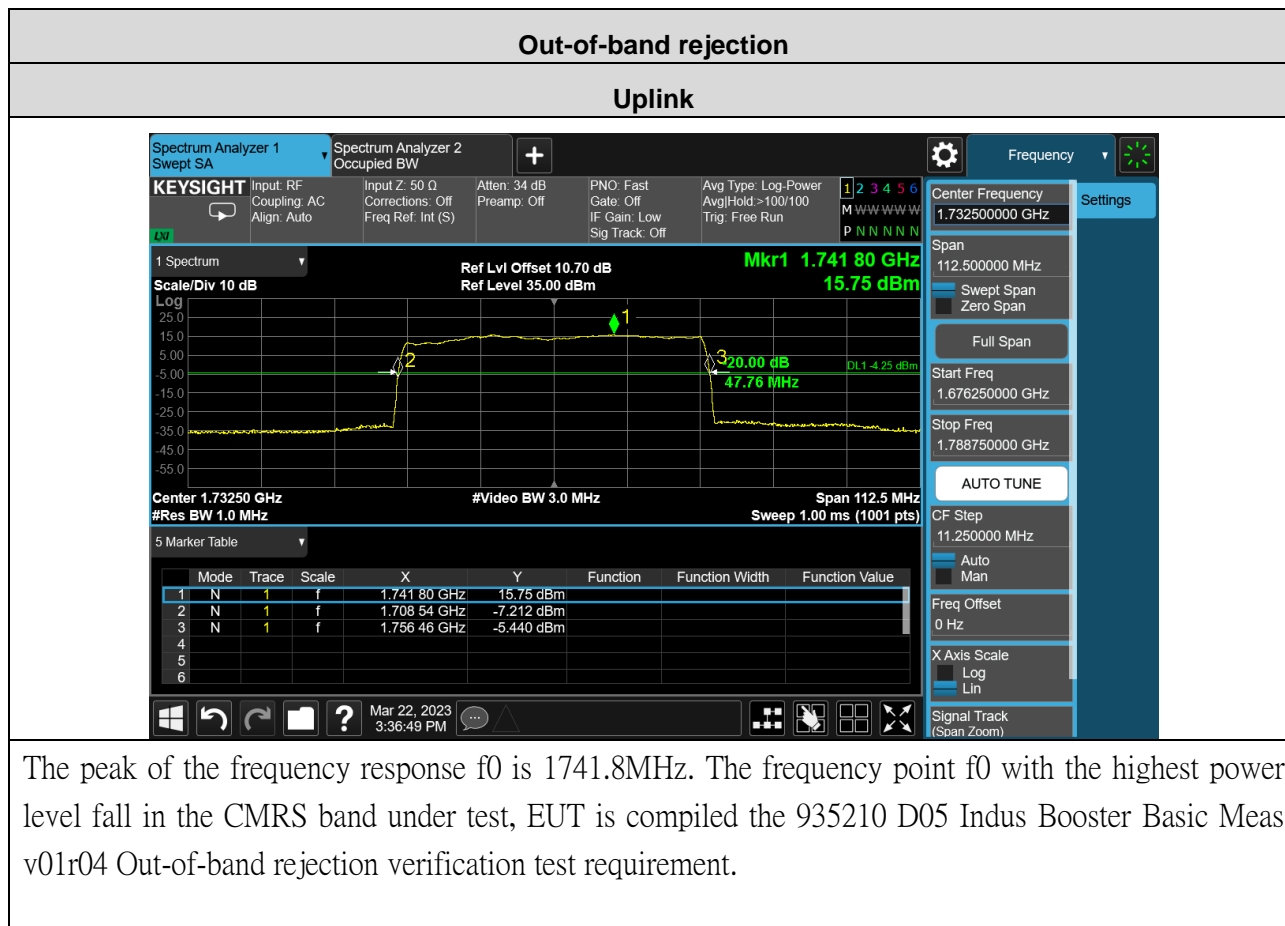
GZCR230300022405

(EAWS band)



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1 Out-of-band rejection



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 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.				

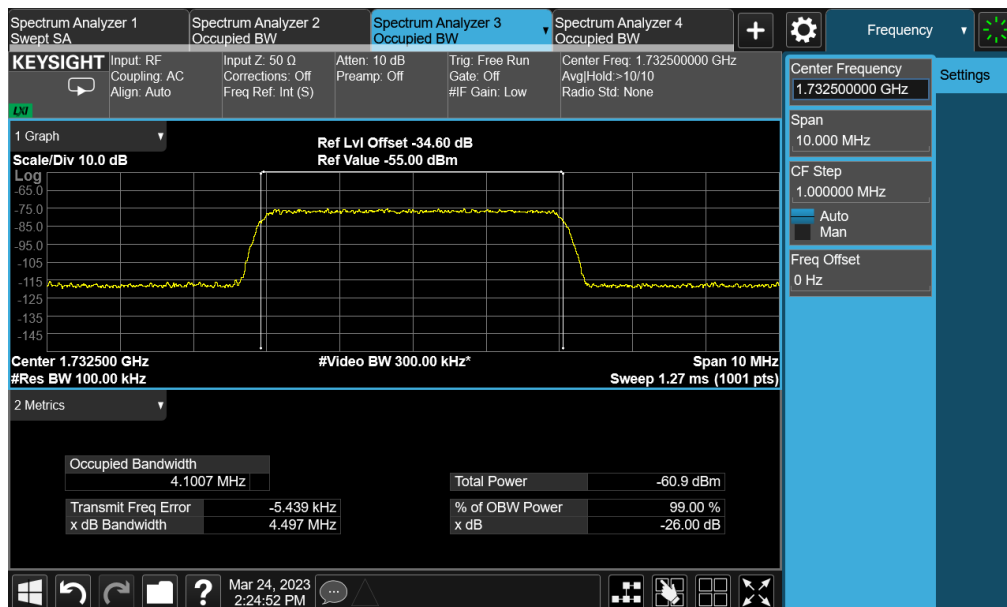


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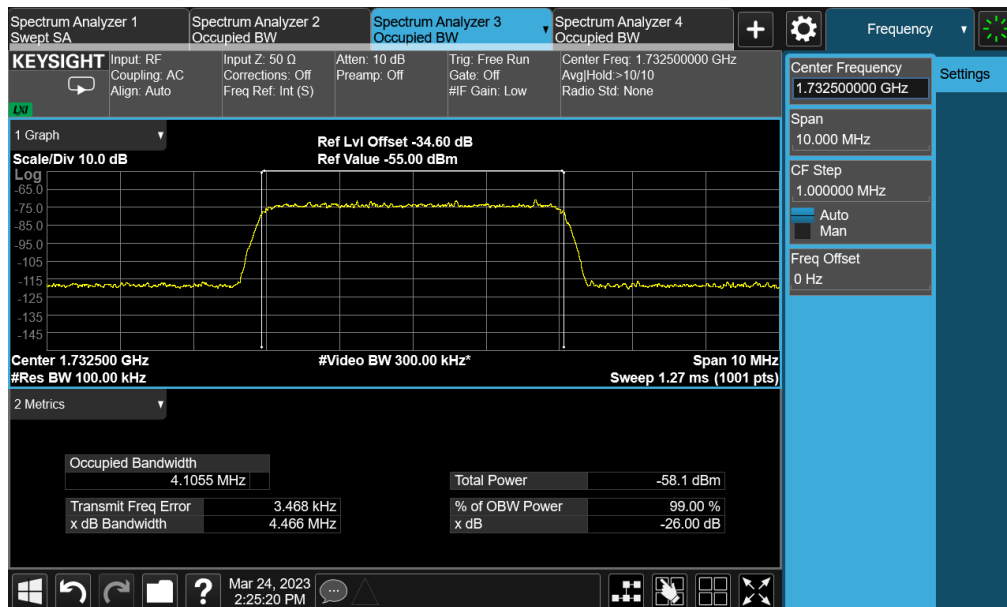
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99% OBW

Uplink_5MHz AWGN_Middle Channel_Input pre-AGC

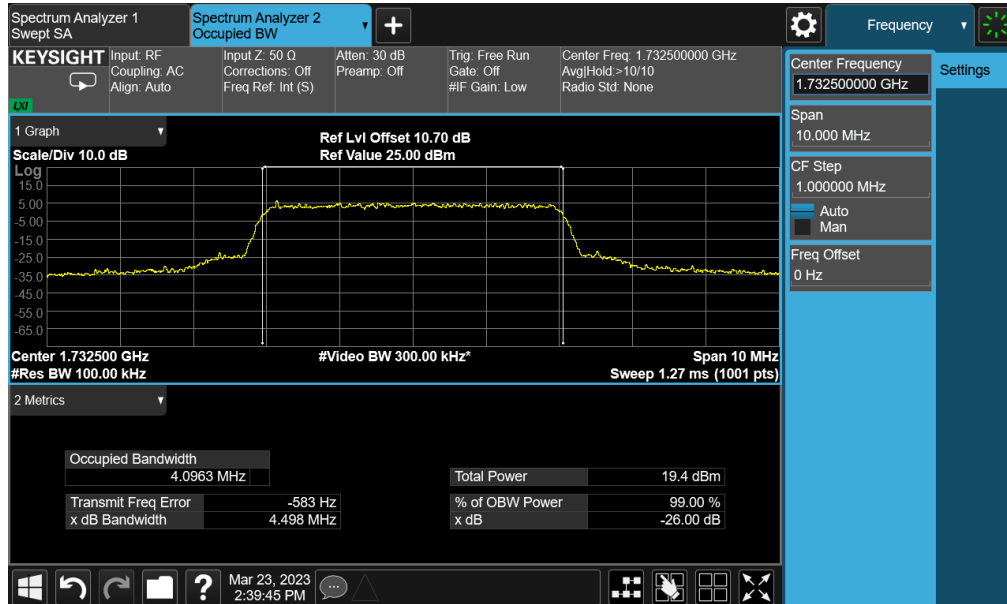


Uplink_5MHz AWGN_Middle Channel_Input 3dB above AGC

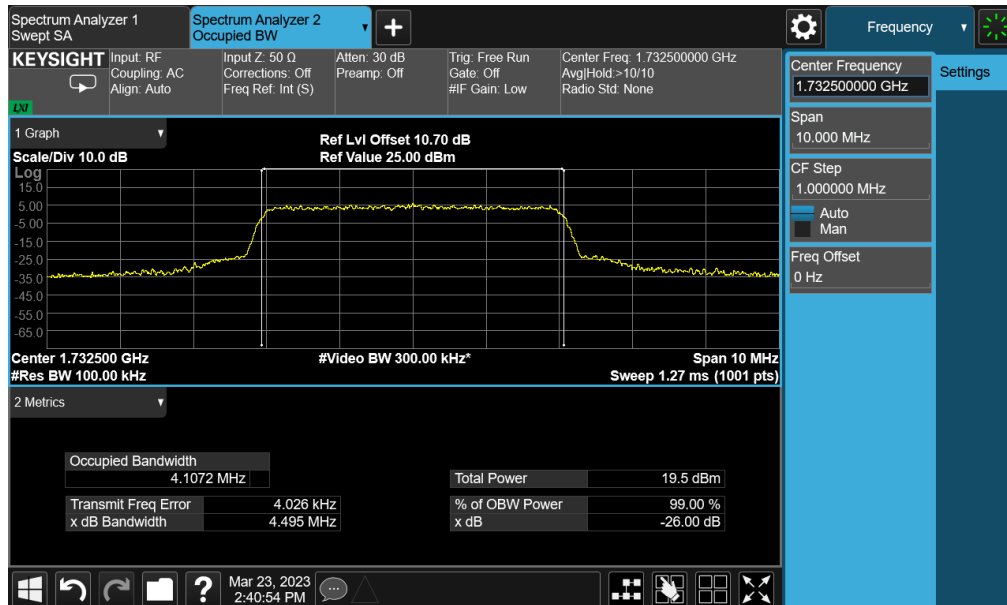


99% OBW

Uplink_5MHz AWGN_Middle Channel_Output pre-AGC

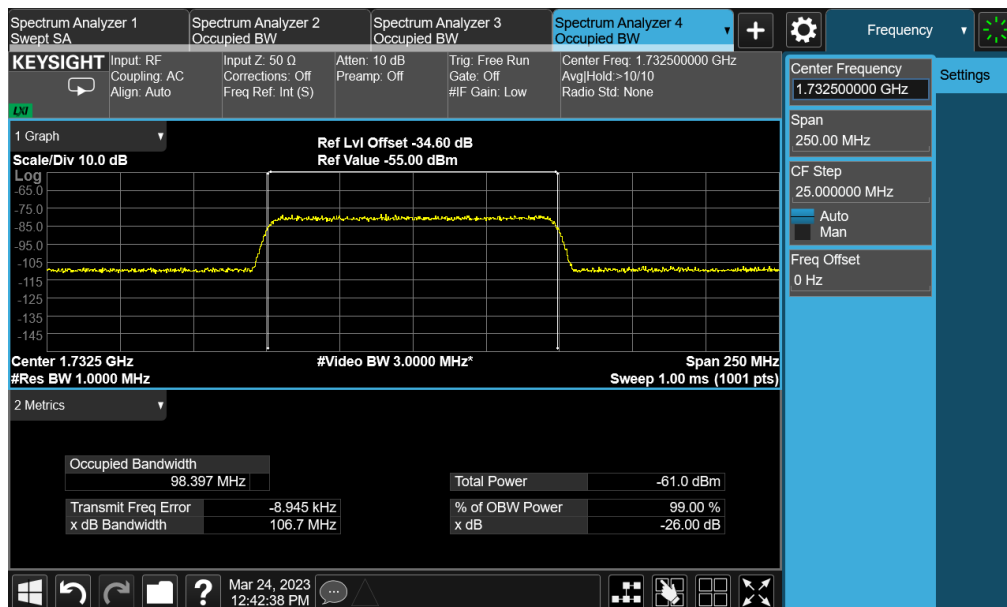


Uplink_5MHz AWGN_Middle Channel_Output 3dB above AGC

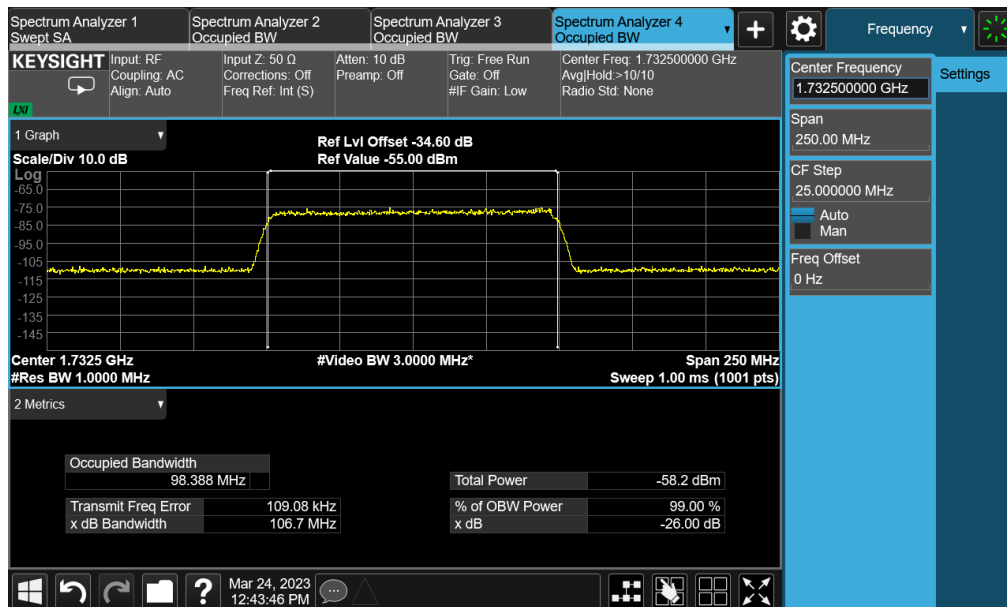


99% OBW

Uplink_100MHz AWGN_Middle Channel_Input pre-AGC



Uplink_100MHz AWGN_Middle Channel_Input 3dB above AGC

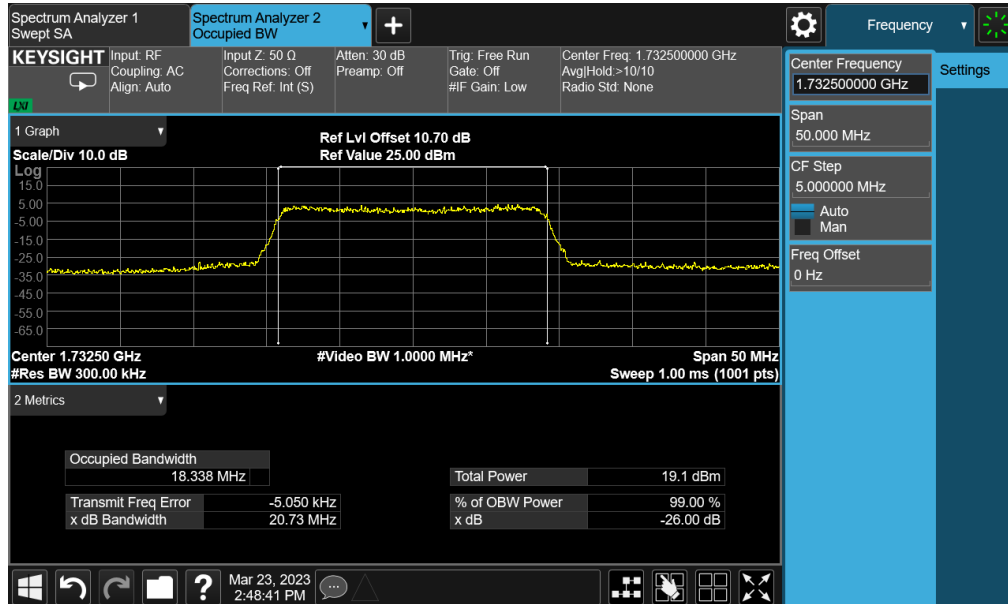


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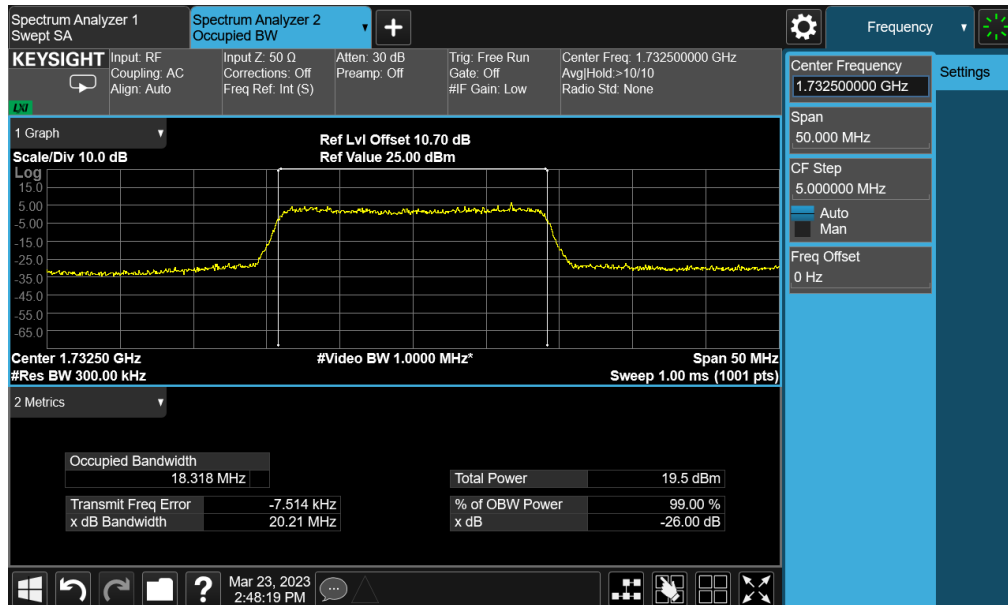
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99% OBW

Uplink_100MHz AWGN_Middle Channel_Output pre-AGC

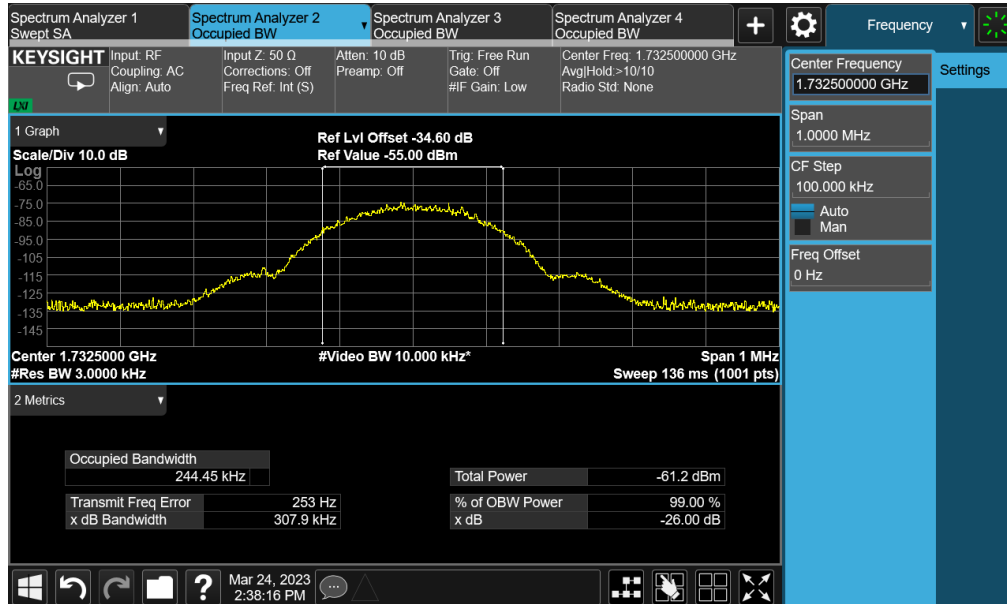


Uplink_100MHz AWGN_Middle Channel_Output 3dB above AGC

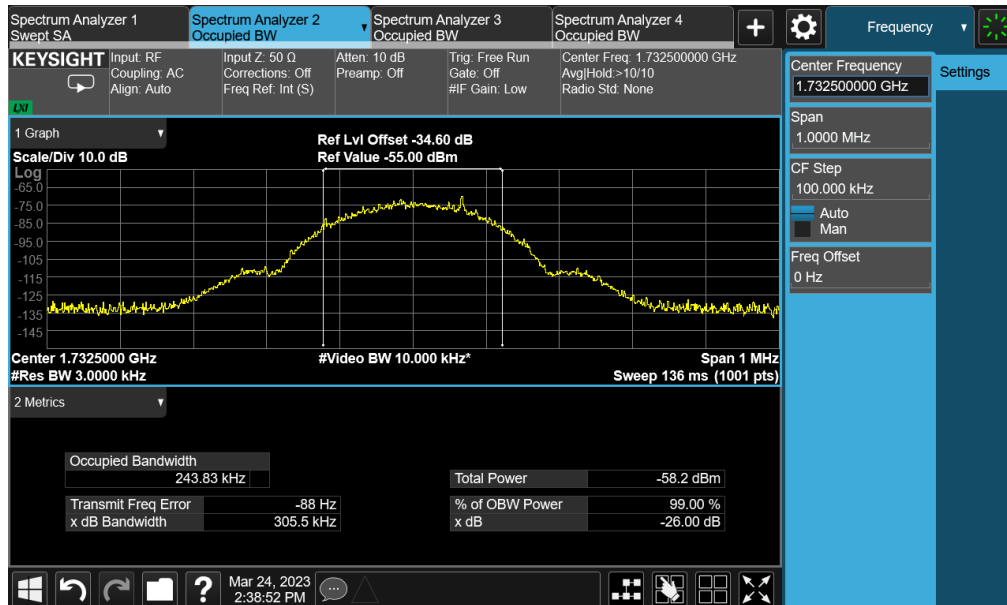


99% OBW

Uplink_GSM_Middle Channel_Input pre-AGC

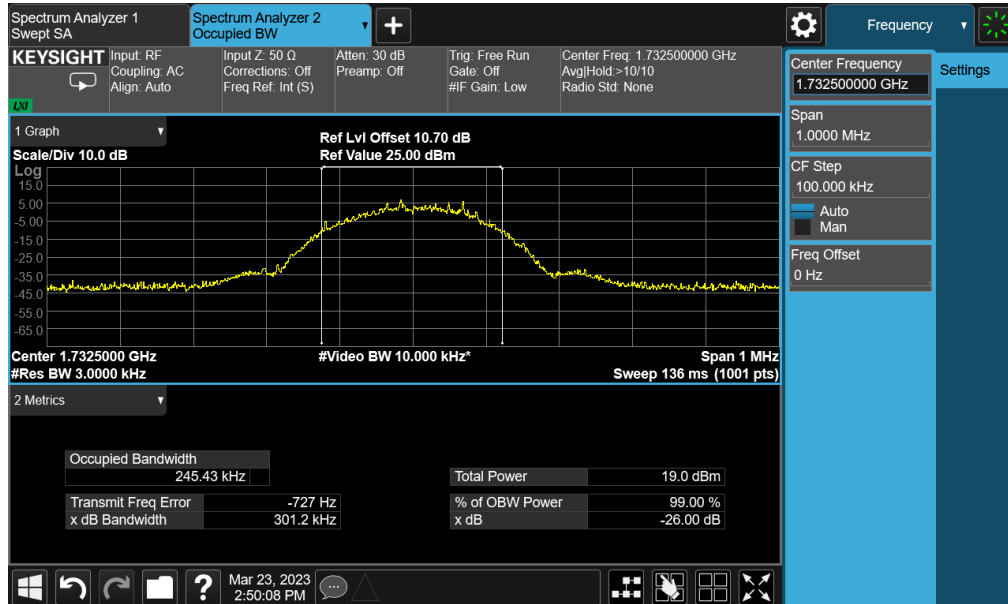


Uplink_GSM_Middle Channel_Input 3dB above AGC

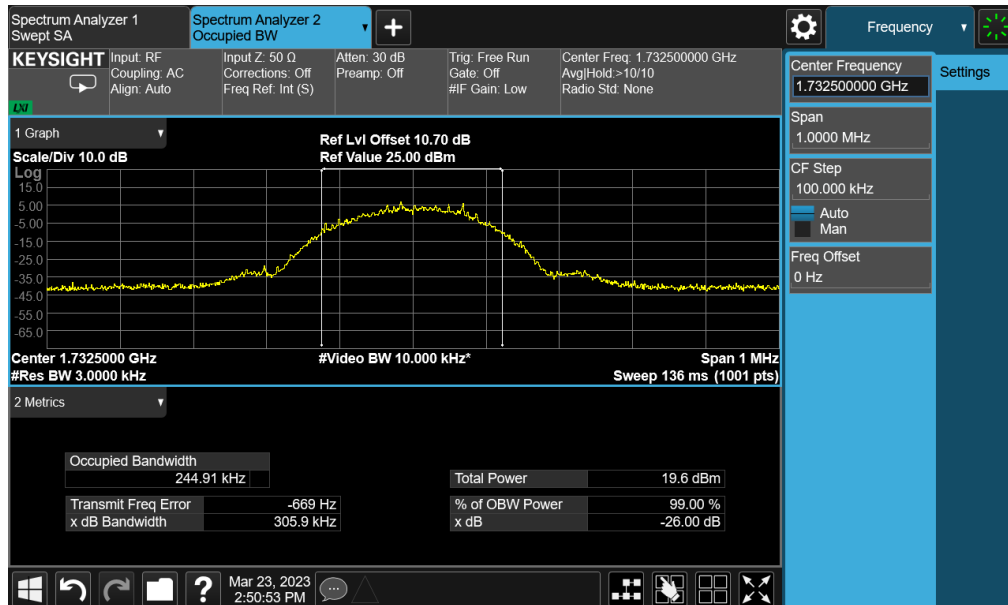


99% OBW

Uplink_GSM_Middle Channel_Output pre-AGC



Uplink_GSM_Middle Channel_Output 3dB above AGC



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)
Uplink	1741.8	5MHz AWGN	Pre-AGC	-60.00	20.14	2.59	80.14
			3dB above AGC	-57.00	20.32	2.70	/
		100MHz AWGN	Pre-AGC	-60.00	18.01	1.59	18.01
			3dB above AGC	-57.00	17.77	1.50	/
		GSM	Pre-AGC	-60.00	20.08	2.56	80.08
			3dB above AGC	-57.00	20.85	3.05	/

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), 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)	EIRP (W/MHz)	Verdict
Uplink	1741.8	5MHz AWGN	Pre-AGC	15.21	0.83	PASS
			3dB above AGC	15.10	0.81	PASS
		100MHz AWGN	Pre-AGC	-1.63	0.02	PASS
			3dB above AGC	-1.28	0.02	PASS
		GSM	Pre-AGC	21.00	3.16	PASS
			3dB above AGC	20.83	3.04	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the max antenna gain is 14dBi declared by the manufacturer.
- 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
Uplink	1741.8	5MHz AWGN	Pre-AGC	8.23	≤13	PASS
			3dB above AGC	8.73		PASS
		100MHz AWGN	Pre-AGC	7.36		PASS
			3dB above AGC	7.73		PASS
		GSM	Pre-AGC	0.20		PASS
			3dB above AGC	0.21		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
Uplink	lower edge	5MHz AWGN	One signal input	Pre-AGC	-35.83	≤-13	PASS
				3dB above AGC	-35.53		PASS
			Two signals input	Pre-AGC	-35.56		PASS
				3dB above AGC	-35.81		PASS
	upper edge		One signal input	Pre-AGC	-30.46		PASS
				3dB above AGC	-30.38		PASS
			Two signals input	Pre-AGC	-29.53		PASS
				3dB above AGC	-29.57		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 + 10log10 (P) dB, P = 19dBm = 0.08W, so the limit = 19dBm – [43 + 10 log10 (0.08W)] 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
Uplink	lower edge	100MHz AWGN	One signal input	Pre-AGC	-28.46	≤-13	PASS
				3dB above AGC	-28.89		PASS
			Two signals input	Pre-AGC	-27.72		PASS
				3dB above AGC	-27.42		PASS
	upper edge		One signal input	Pre-AGC	-27.73		PASS
				3dB above AGC	-25.64		PASS
			Two signals input	Pre-AGC	-26.65		PASS
				3dB above AGC	-26.38		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 + 10log10 (P) dB, P = 19dBm = 0.08W, so the limit = 19dBm – [43 + 10 log10 (0.08W)] dB = -13dBm							

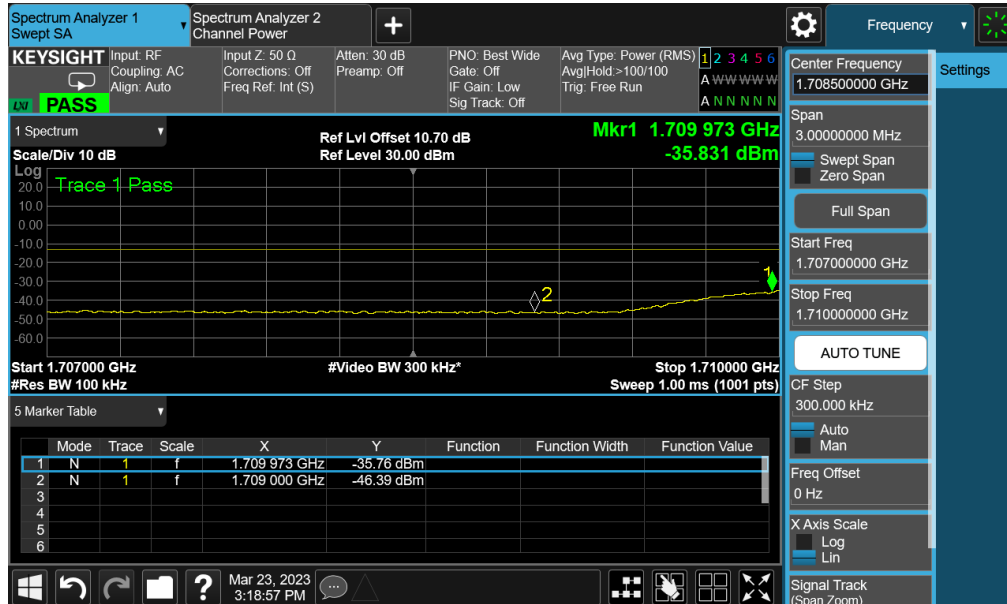


Out-of-band/out-of-block(including intermodulation) emissions							
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict
Uplink	lower edge	GSM	One signal input	Pre-AGC	-48.16	≤-13	PASS
				3dB above AGC	-47.62		PASS
			Two signals input	Pre-AGC	-47.82		PASS
				3dB above AGC	-47.88		PASS
	upper edge		One signal input	Pre-AGC	-31.52		PASS
				3dB above AGC	-31.36		PASS
			Two signals input	Pre-AGC	-27.70		PASS
				3dB above AGC	-27.35		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 + 10log10 (P) dB, P = 19dBm = 0.08W, so the limit = 19dBm – [43 + 10 log10 (0.08W)] dB = -13dBm							

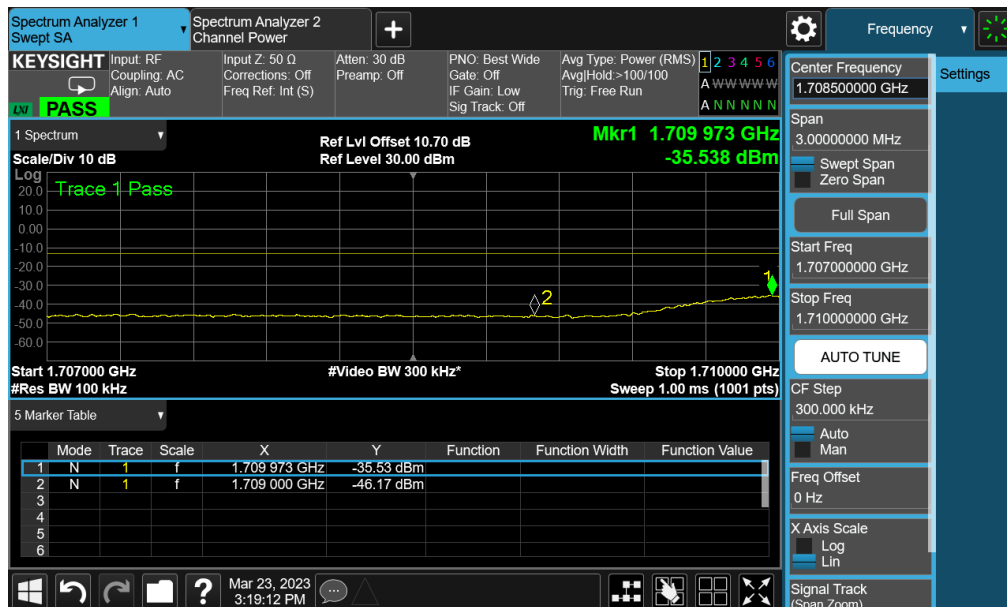


Out-of-band/out-of-block emissions

Uplink_5MHz AWGN_One signal input_Pre-AGC_Lower edge



Uplink_5MHz AWGN_One signal input_3dB above AGC_Lower edge

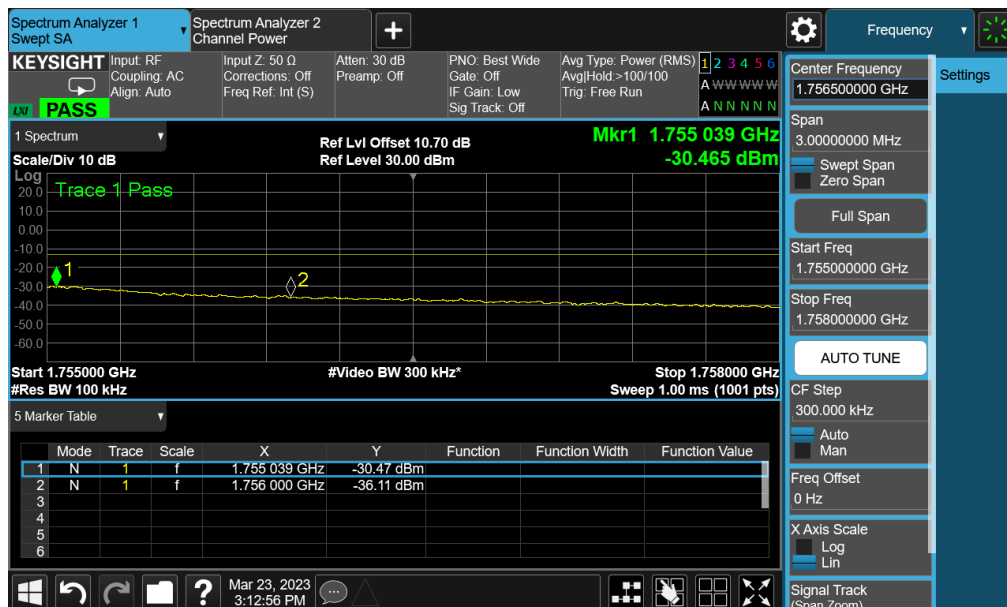


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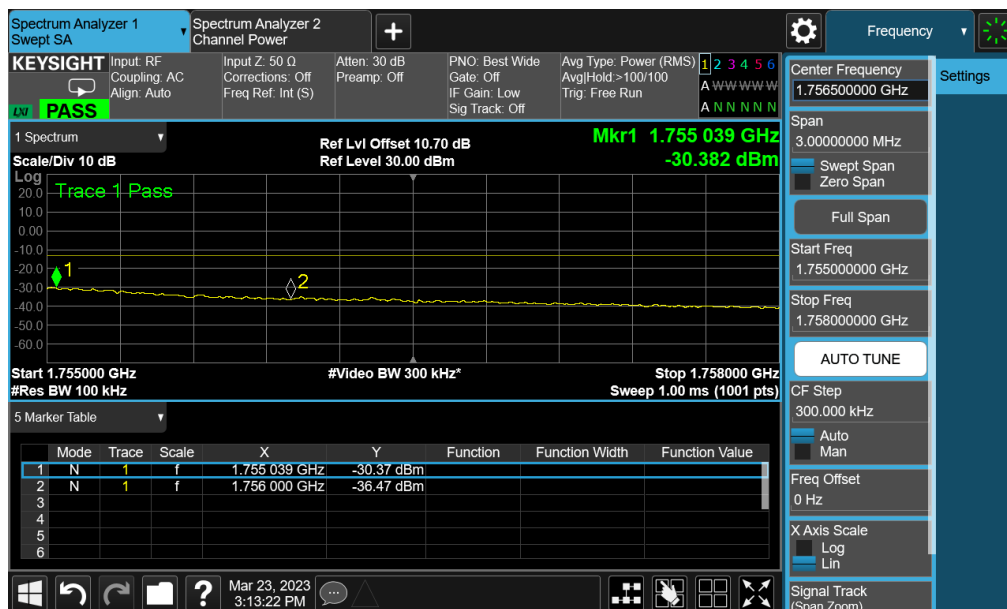
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Out-of-band/out-of-block emissions

Uplink_5MHz AWGN_One signal input_Pre-AGC_Upper edge



Uplink_5MHz AWGN_One signal input_3dB above AGC_Upper edge

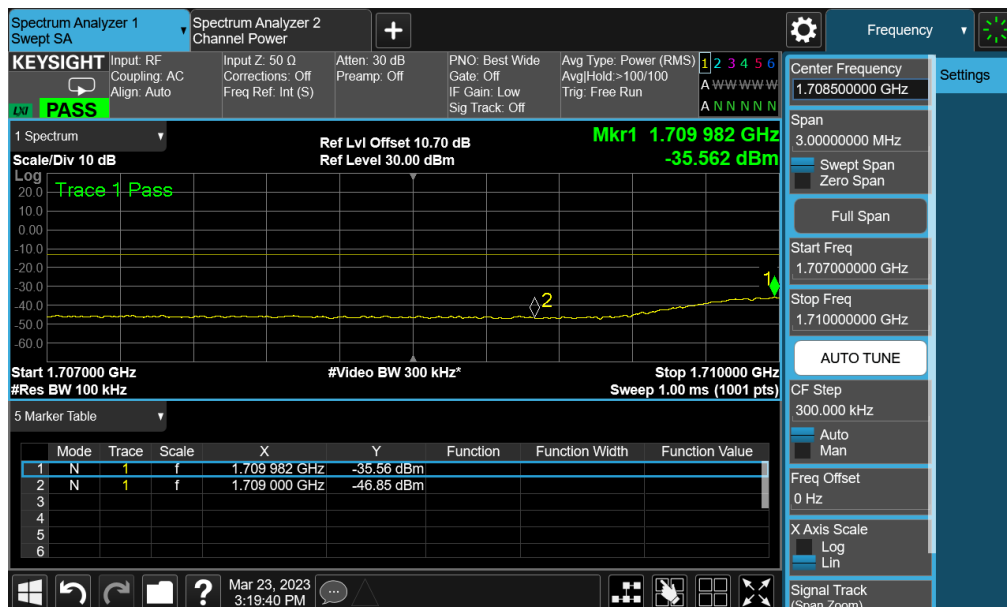


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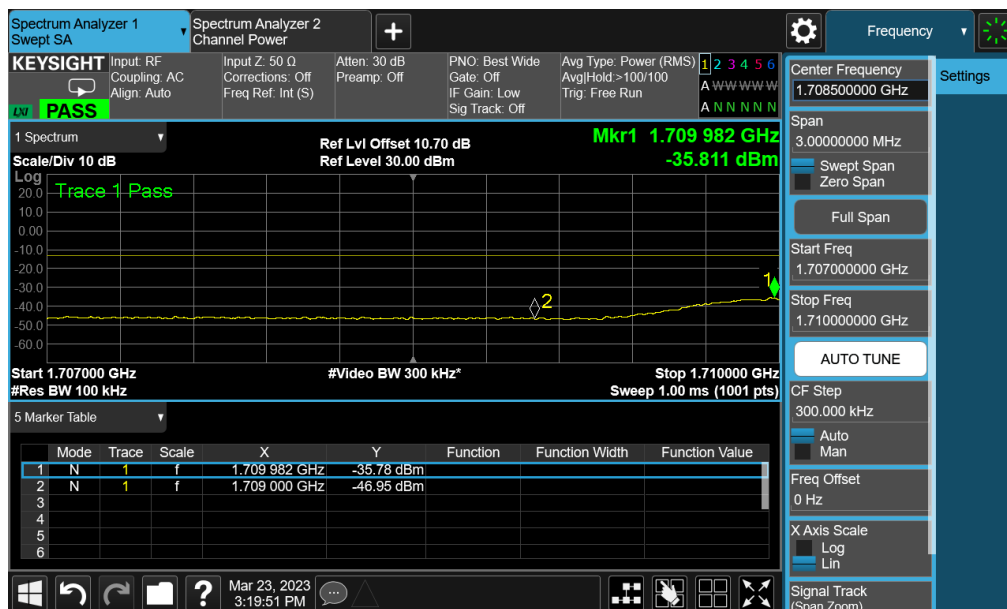
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Out-of-band/out-of-block emissions

Uplink_5MHz AWGN_Two signals input_Pre-AGC_Lower edge



Uplink_5MHz AWGN_Two signals input_3dB above AGC_Lower edge

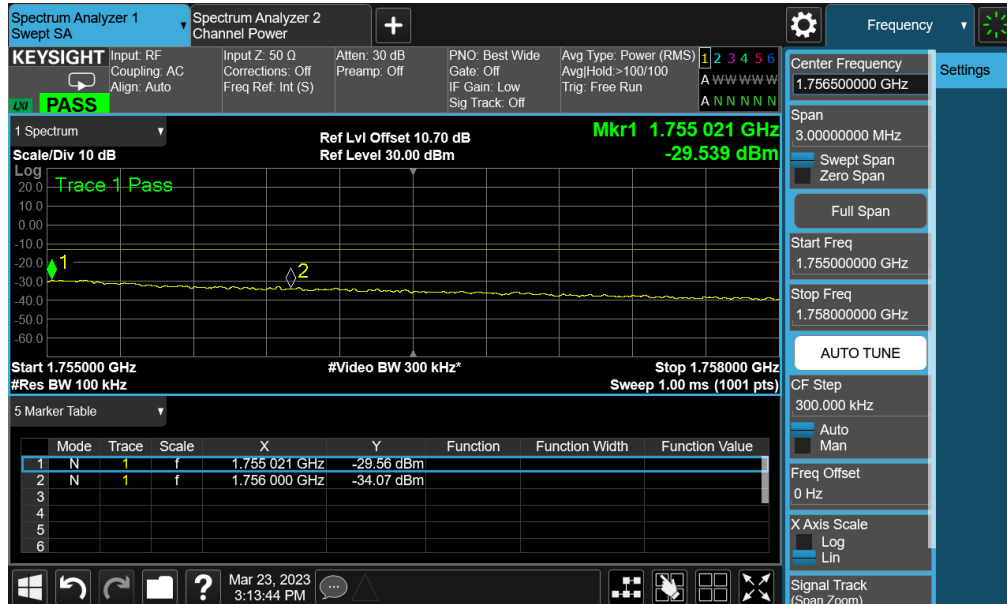


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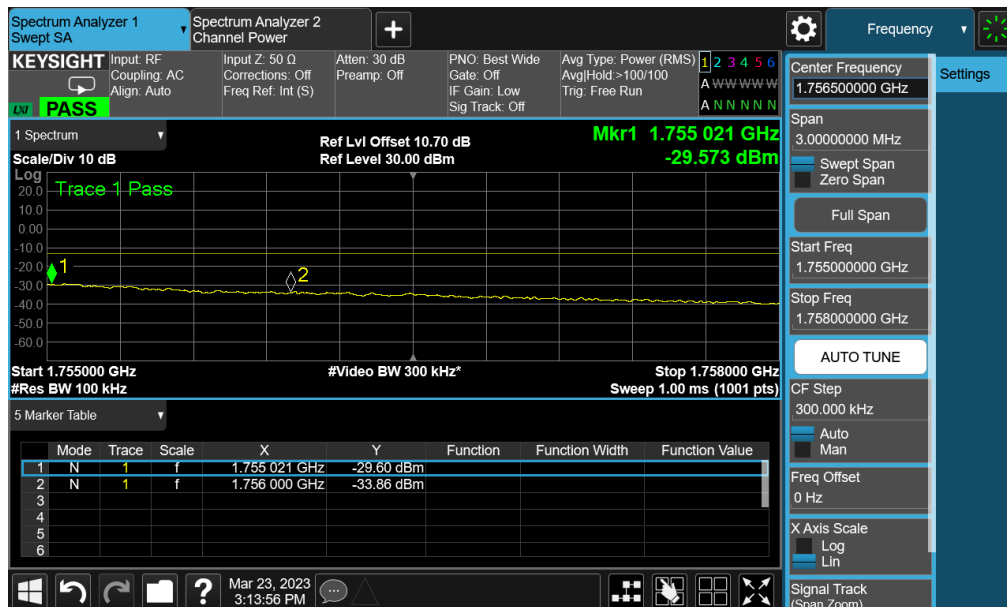
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Out-of-band/out-of-block emissions

Uplink_5MHz AWGN_Two signals input_Pre-AGC_Upper edge



Uplink_5MHz AWGN_Two signals input_3dB above AGC_Upper edge

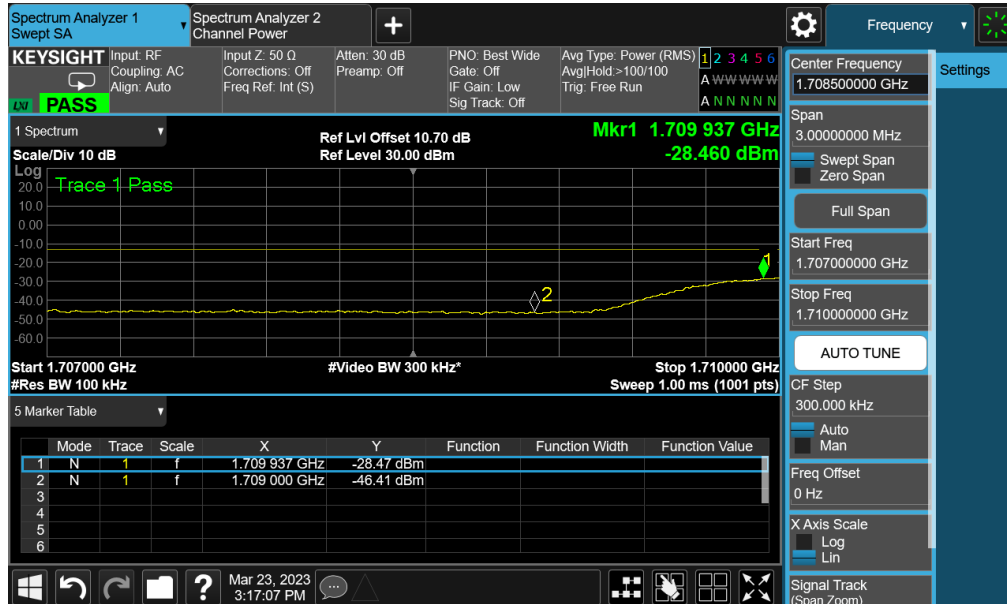


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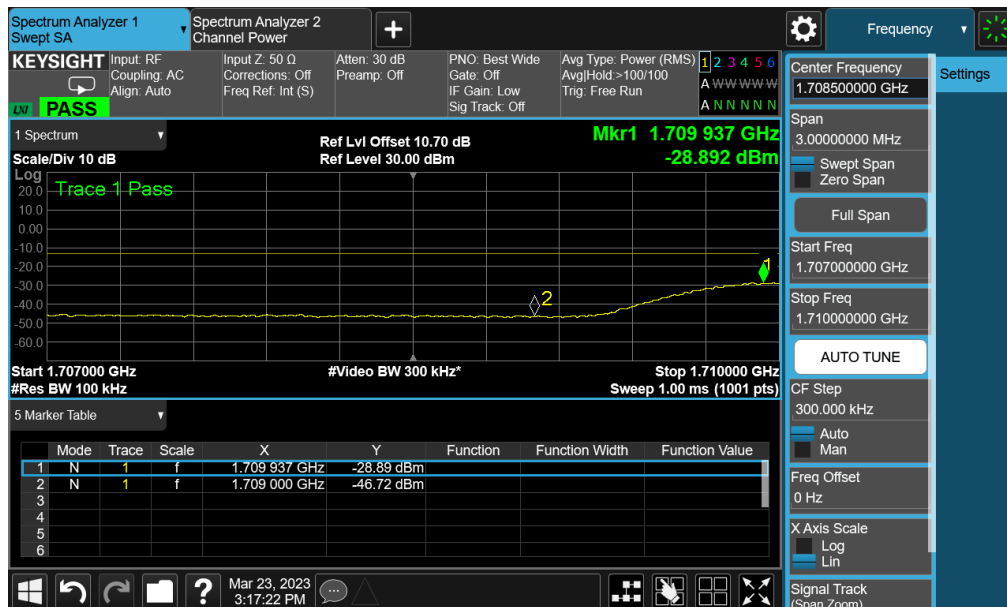
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Out-of-band/out-of-block emissions

Uplink_100MHz AWGN_One signal input_Pre-AGC_Lower edge



Uplink_100MHz AWGN_One signal input_3dB above AGC_Lower edge

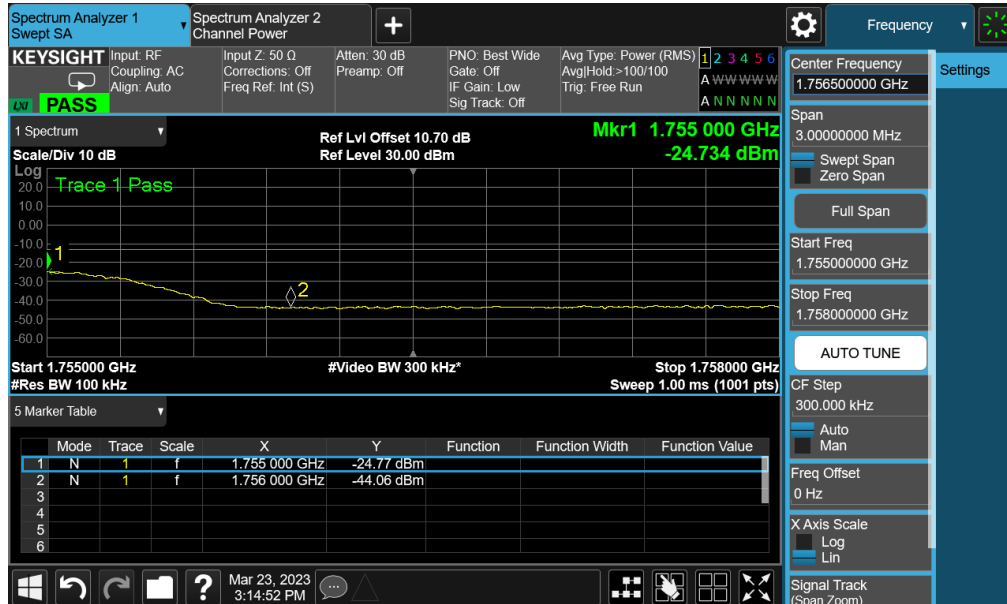


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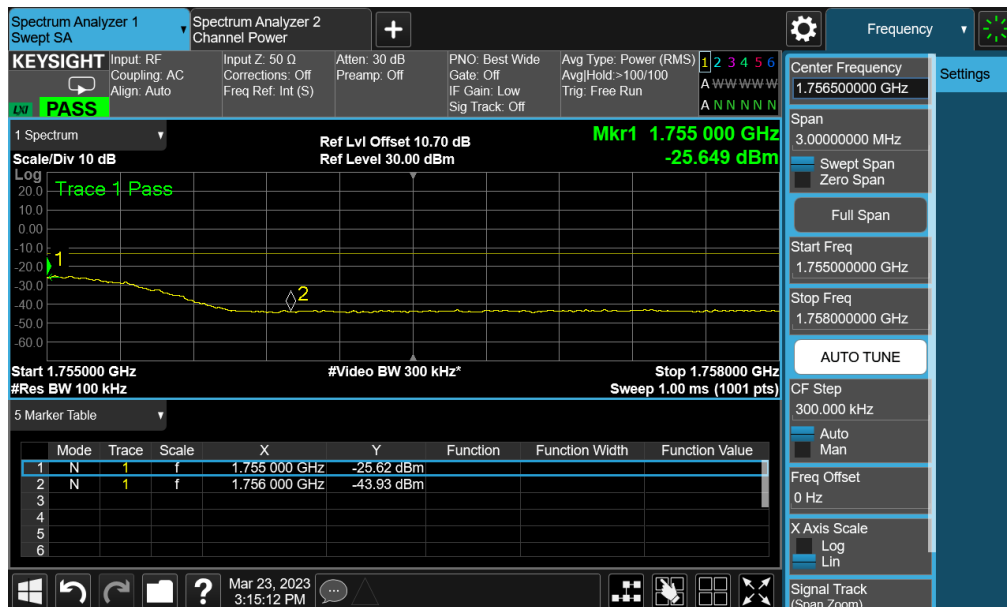
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Out-of-band/out-of-block emissions

Uplink_100MHz AWGN_One signal input_Pre-AGC_Upper edge

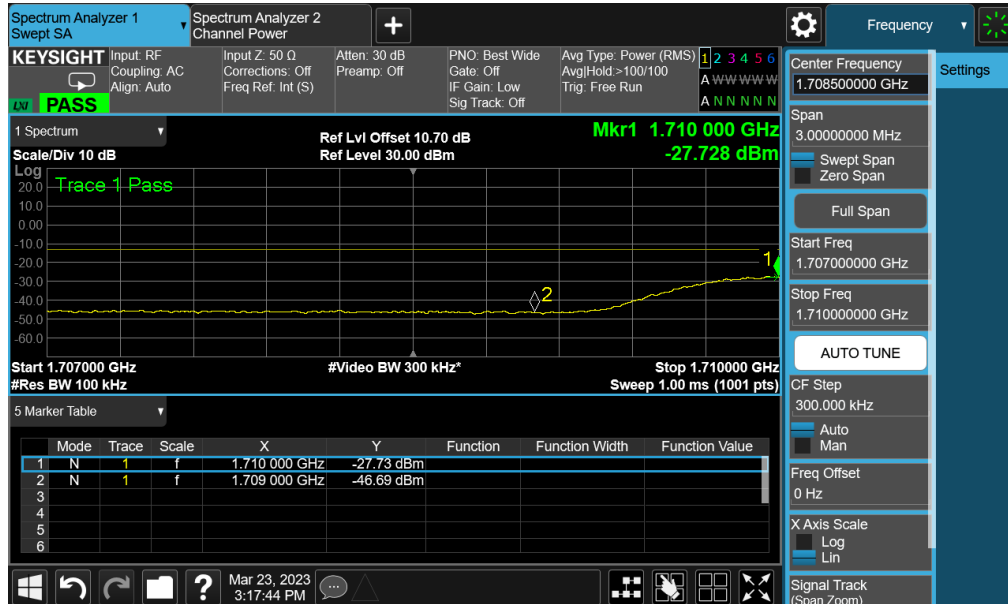


Uplink_100MHz AWGN_One signal input_3dB above AGC_Upper edge

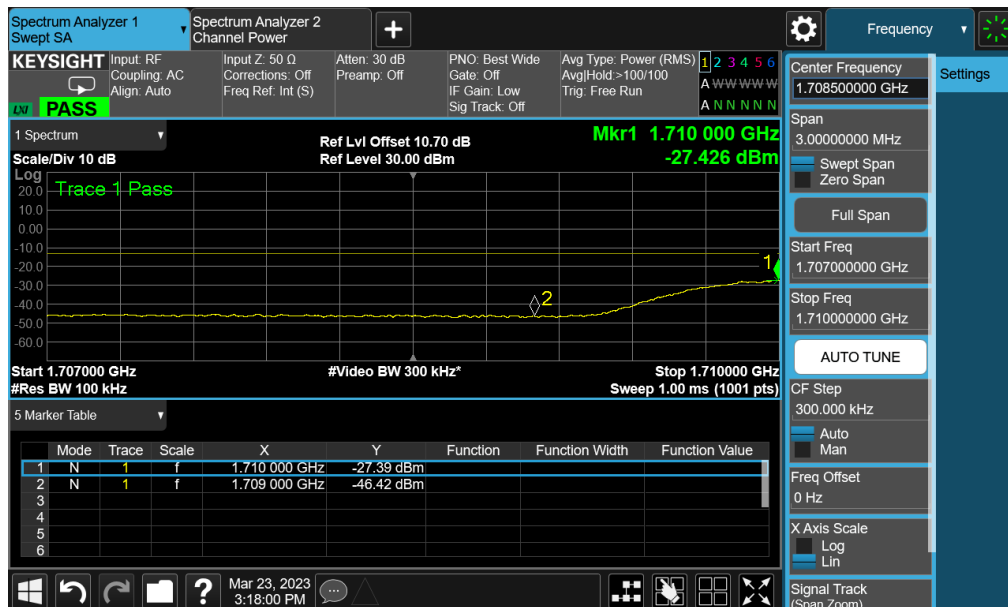


Out-of-band/out-of-block emissions

Uplink_100MHz AWGN_Two signals input_Pre-AGC_Lower edge

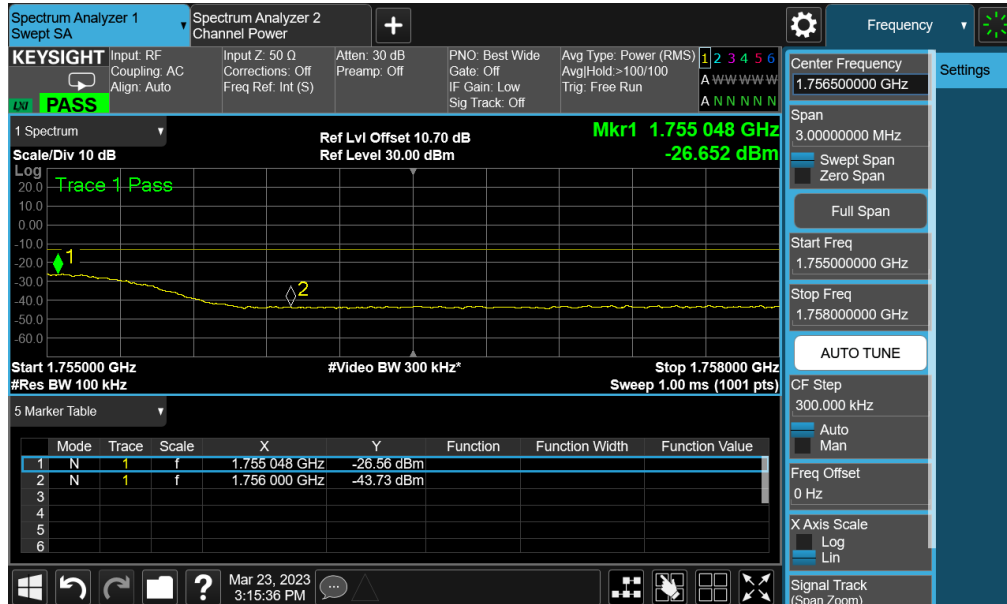


Uplink_100MHz AWGN_Two signals input_3dB above AGC_Lower edge

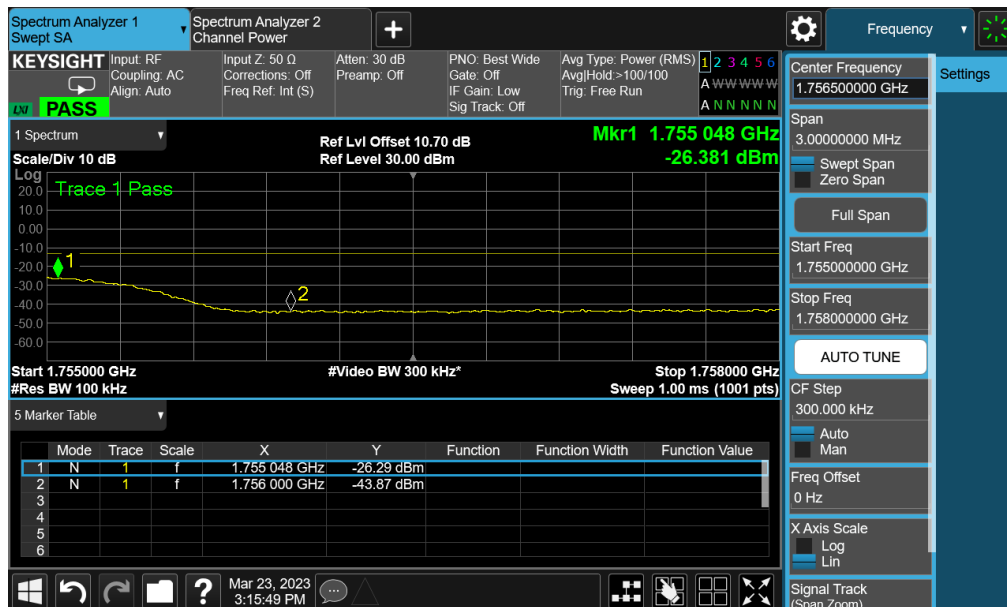


Out-of-band/out-of-block emissions

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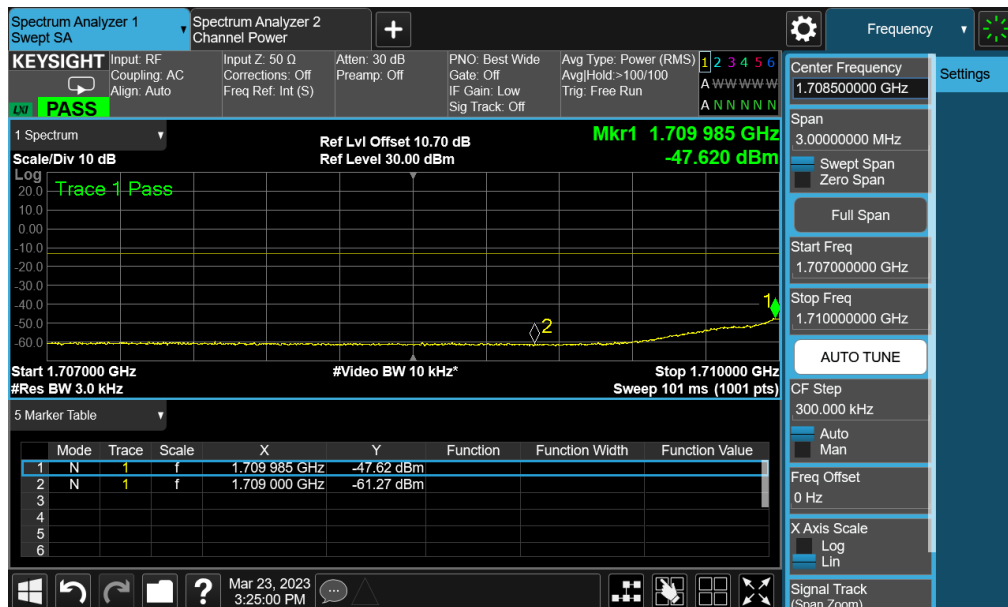
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Out-of-band/out-of-block emissions

Uplink_GSM_One signal input_Pre-AGC_Lower edge

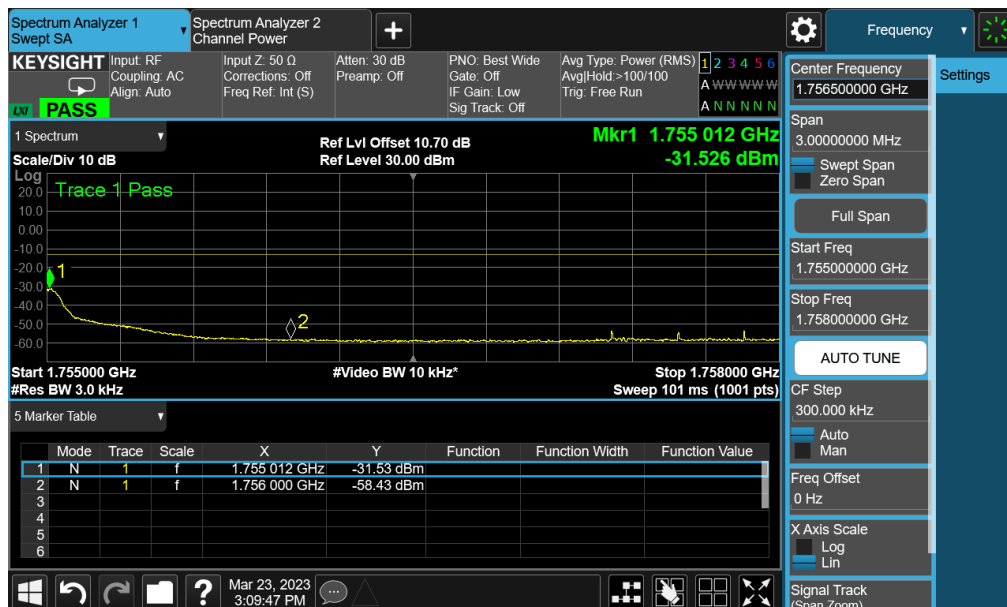


Uplink_GSM_One signal input_3dB above AGC_Lower edge

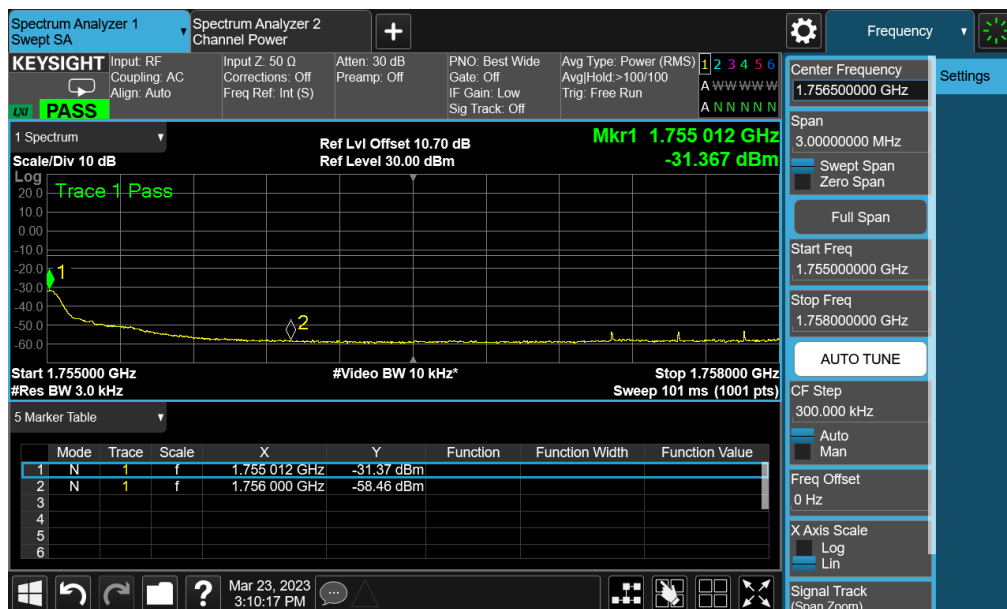


Out-of-band/out-of-block emissions

Uplink_GSM_One signal input_Pre-AGC_Upper edge

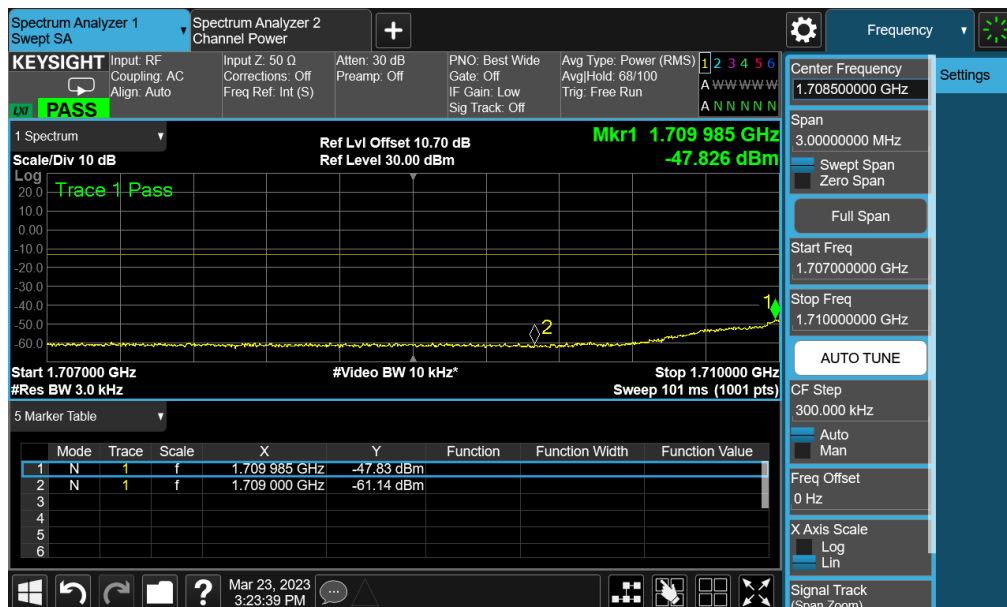


Uplink_GSM_One signal input_3dB above AGC_Upper edge

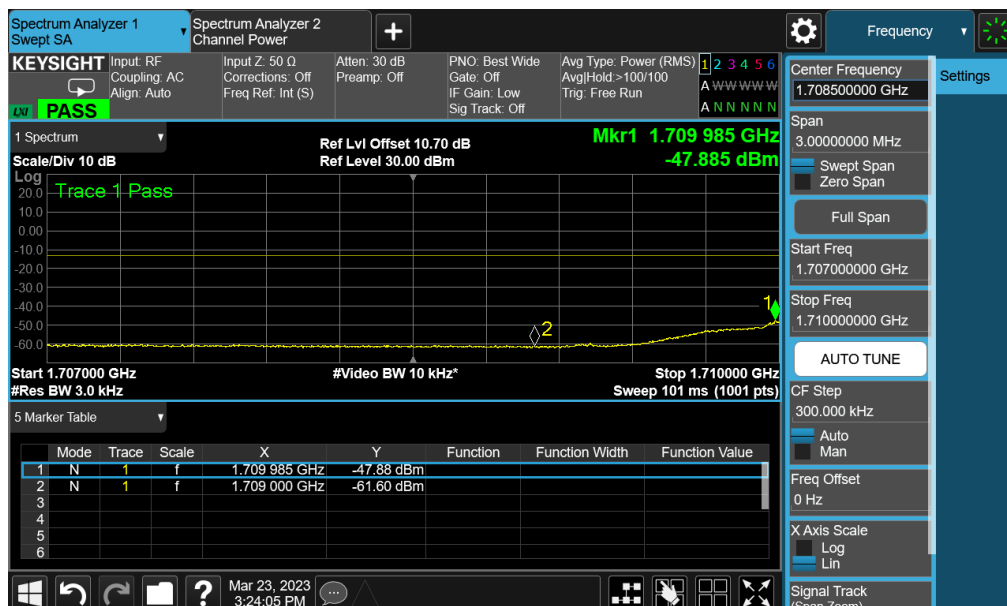


Out-of-band/out-of-block emissions

Uplink_GSM_Two signals input_Pre-AGC_Lower edge

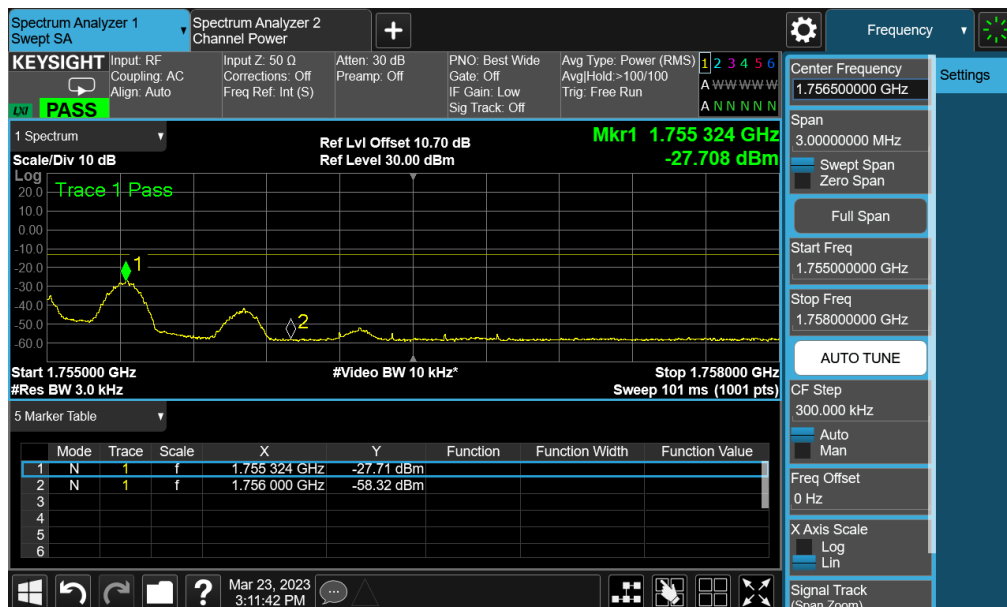


Uplink_GSM_Two signals input_3dB above AGC_Lower edge

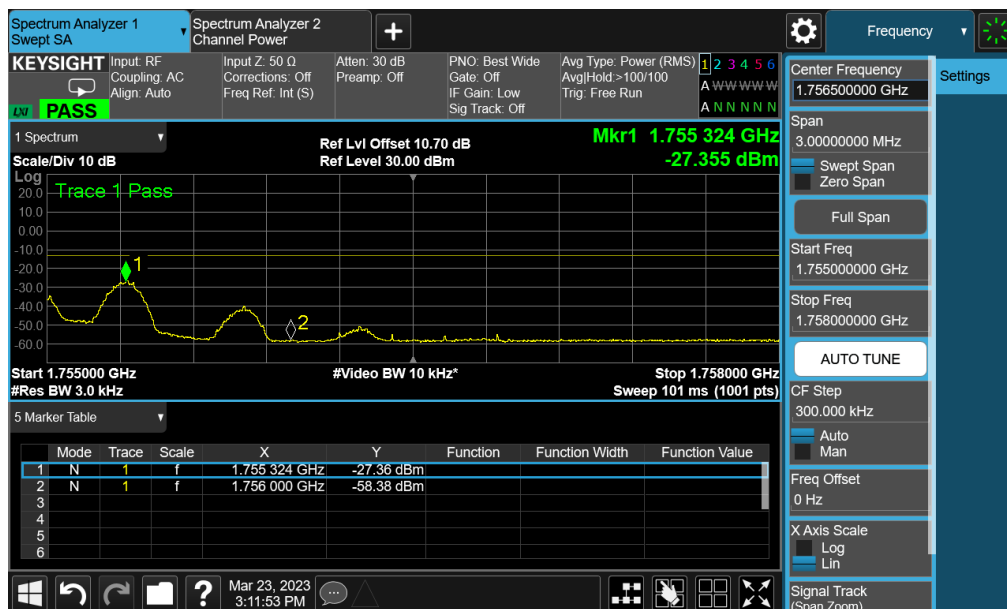


Out-of-band/out-of-block emissions

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	0.009-1000	-30.21	≤-13	PASS
				1000-1709	-29.95	≤-13	PASS
				1756-18000	-30.04	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-1000	-33.18	≤-13	PASS
				1000-1709	-43.99	≤-13	PASS
				1756-18000	-42.84	≤-13	PASS
		GSM	Pre-AGC	0.009-1000	-37.60	≤-13	PASS
				1000-1709	-38.67	≤-13	PASS
				1756-18000	-31.86	≤-13	PASS
	Middle Channel	5MHz AWGN	Pre-AGC	0.009-1000	-33.13	≤-13	PASS
				1000-1709	-30.49	≤-13	PASS
				1756-18000	-39.58	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-1000	-41.49	≤-13	PASS
				1000-1709	-32.15	≤-13	PASS
				1756-18000	-42.01	≤-13	PASS
		GSM	Pre-AGC	0.009-1000	-39.54	≤-13	PASS
				1000-1709	-42.82	≤-13	PASS
				1756-18000	-31.60	≤-13	PASS
	Low Channel	5MHz AWGN	Pre-AGC	0.009-1000	-36.56	≤-13	PASS
				1000-1709	-43.37	≤-13	PASS
				1756-18000	-30.92	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-1000	-29.85	≤-13	PASS
				1000-1709	-36.22	≤-13	PASS
				1756-18000	-37.22	≤-13	PASS
		GSM	Pre-AGC	0.009-1000	-29.41	≤-13	PASS
				1000-1709	-30.52	≤-13	PASS
				1756-18000	-44.34	≤-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,

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

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



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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	1732.5	+50	110	31	0.0179	PASS
		+40	110	25	0.0144	PASS
		+30	110	33	0.0190	PASS
		+20	110	28	0.0162	PASS
		+10	110	19	0.0110	PASS
		0	110	15	0.0087	PASS
		-10	110	22	0.0127	PASS
		-20	110	30	0.0173	PASS
		-30	110	26	0.0150	PASS

Frequency stability vs voltage						
Test path	Test Frequency (MHz)	Voltage (V AC)	Temperature (°C)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Uplink	1732.5	93.5	20	24	0.0139	PASS
		126.5	20	17	0.0098	PASS



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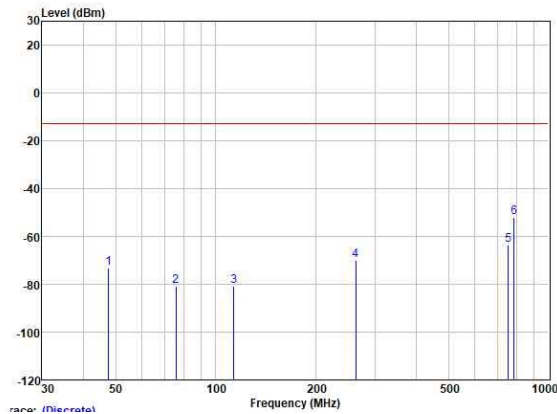
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7 Radiated Spurious emissions

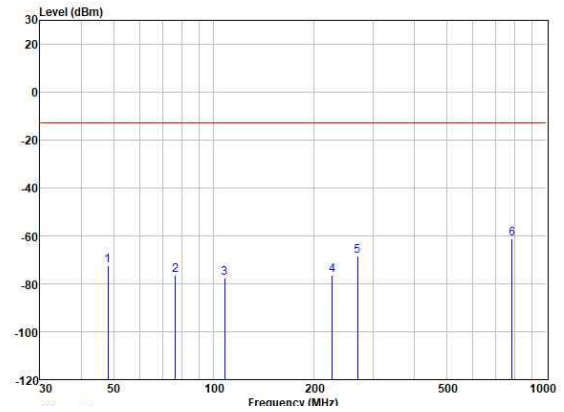
All modes (Lowest/Middle/Highest Channels, 5MHz AWGN input signal/100MHz AWGN input signal / GSM input signal) have been tested and only the worst test result was recorded in this report.

Radiated Spurious emissions

5MHz AWGN_Middle Channel_30MHz-1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	47.659	-70.24	-2.79	-73.03	-13.00	-60.03	HORIZONTAL
2	75.977	-71.92	-8.79	-80.71	-13.00	-67.71	HORIZONTAL
3	113.316	-72.19	-8.75	-80.94	-13.00	-67.94	HORIZONTAL
4	262.896	-66.09	-3.75	-69.84	-13.00	-56.84	HORIZONTAL
5	755.387	-68.93	5.38	-63.55	-13.00	-50.55	HORIZONTAL
6	787.851	-58.53	6.38	-52.15	-13.00	-39.15	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	47.994	-63.47	-8.96	-72.43	-13.00	-59.43	VERTICAL
2	76.512	-66.75	-9.82	-76.57	-13.00	-63.57	VERTICAL
3	107.888	-72.91	-4.69	-77.60	-13.00	-64.60	VERTICAL
4	226.894	-70.19	-6.18	-76.37	-13.00	-63.37	VERTICAL
5	270.375	-64.96	-3.35	-68.31	-13.00	-55.31	VERTICAL
6	787.851	-68.21	7.17	-61.04	-13.00	-48.04	VERTICAL

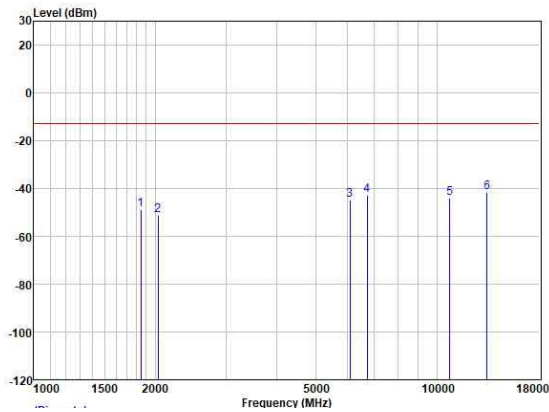


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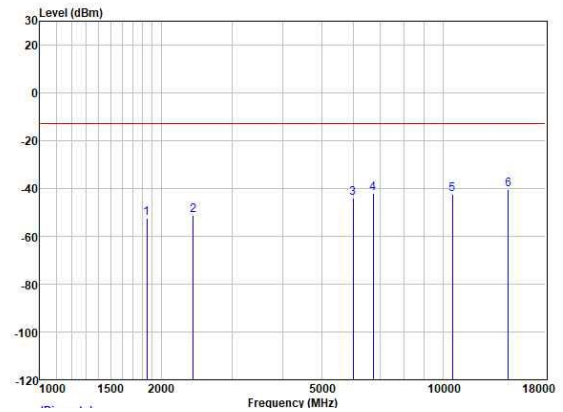
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Radiated Spurious emissions

5MHz AWGN_Middle Channel_above 1GHz



	Freq	Read	Correction	Level	Limit	Over	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1845.516	-54.85	6.04	-48.81	-13.00	-35.81	HORIZONTAL
2	2036.090	-61.00	9.79	-51.21	-13.00	-38.21	HORIZONTAL
3	6088.991	-64.10	19.13	-44.97	-13.00	-31.97	HORIZONTAL
4	6717.762	-63.30	20.32	-42.98	-13.00	-29.98	HORIZONTAL
5	10760.540	-67.90	23.90	-44.00	-13.00	-31.00	HORIZONTAL
6	13326.750	-69.08	27.32	-41.76	-13.00	-28.76	HORIZONTAL



	Freq	Read	Correction	Level	Limit	Over	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1845.516	-58.54	6.34	-52.20	-13.00	-39.20	VERTICAL
2	2400.753	-61.02	9.94	-51.08	-13.00	-38.08	VERTICAL
3	5984.305	-63.04	19.06	-43.98	-13.00	-30.98	VERTICAL
4	6717.762	-62.73	20.83	-41.90	-13.00	-28.90	VERTICAL
5	10575.540	-67.18	24.78	-42.40	-13.00	-29.40	VERTICAL
6	14533.910	-67.71	27.40	-40.31	-13.00	-27.31	VERTICAL

--End of Appendix--