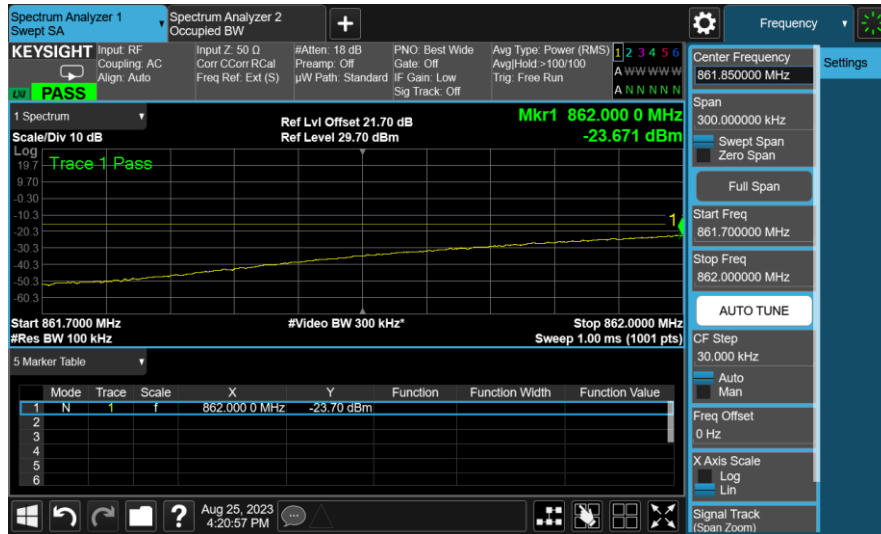
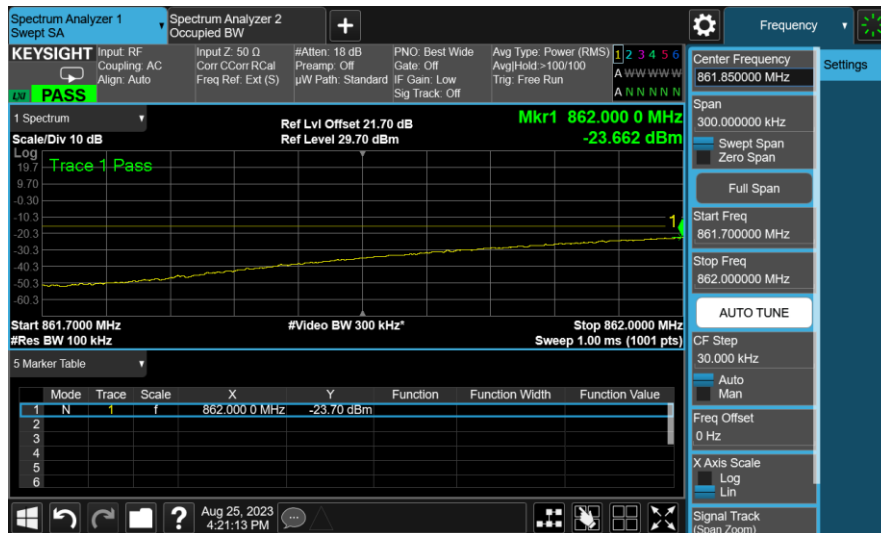


DL\_1S\_B\_AWGN\_Pre-AGC\_Out-of-band emission

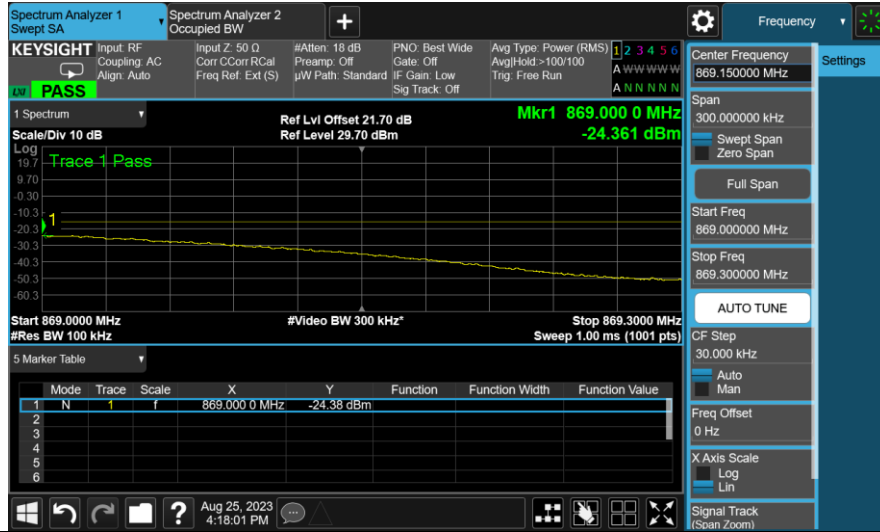


DL\_1S\_B\_AWGN\_AG+3\_Out-of-band emission

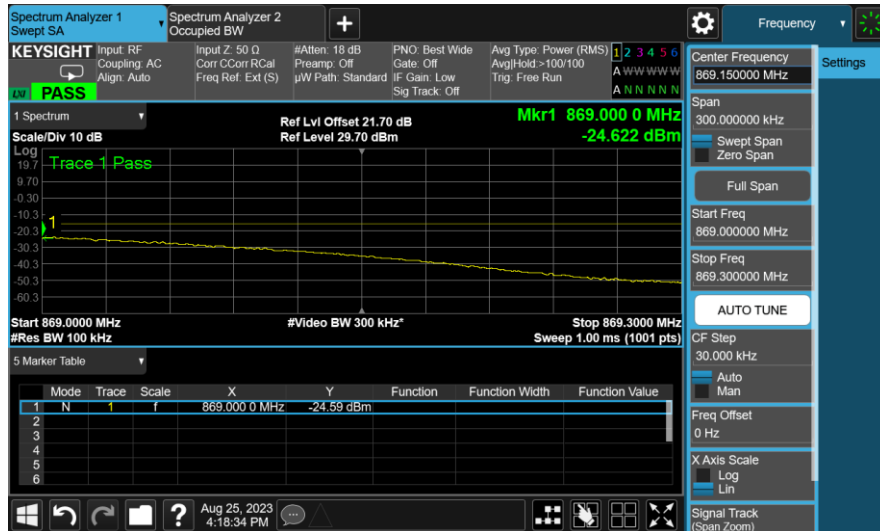


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DL\_1S\_T\_AWGN\_Pre-AGC\_Out-of-band emission



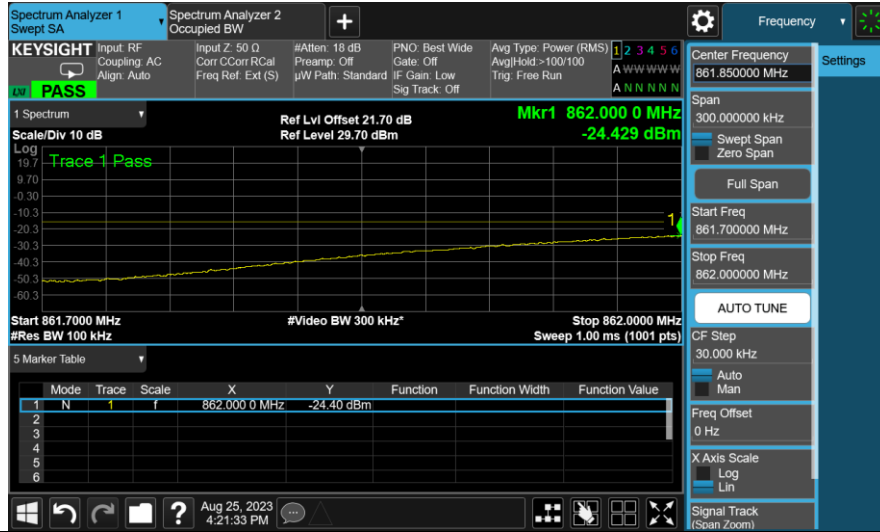
DL\_1S\_T\_AWGN\_AGC+3\_Out-of-band emission



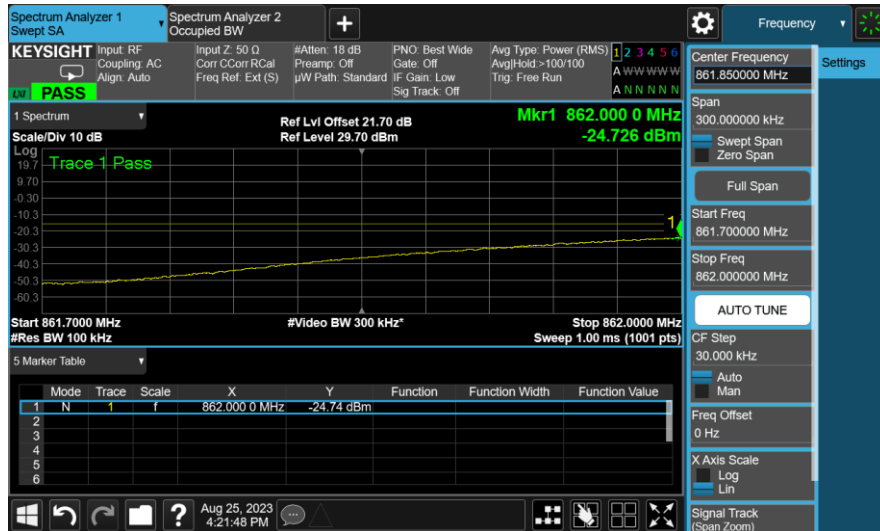
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DL\_2S\_B\_AWGN\_Pre-AGC\_Out-of-band emission



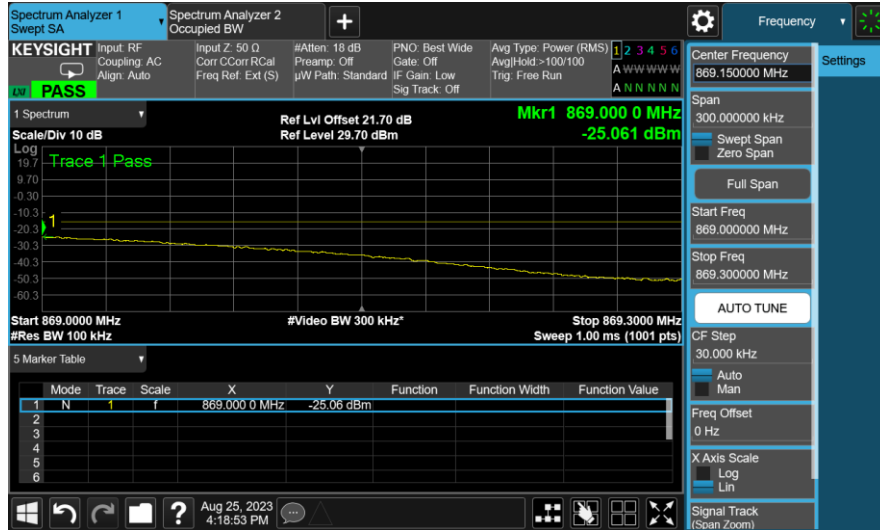
DL\_2S\_B\_AWGN\_AGC+3\_Out-of-band emission



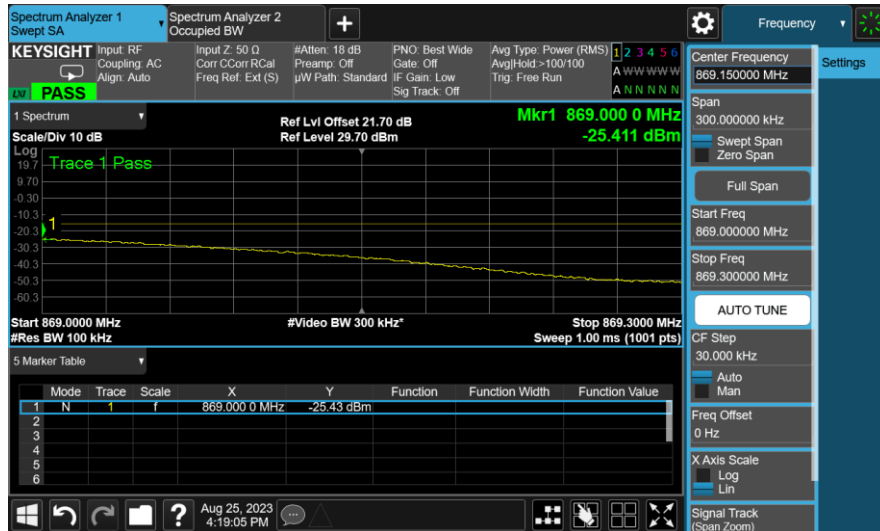
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DL\_2S\_T\_AWGN\_Pre-AGC\_Out-of-band emission



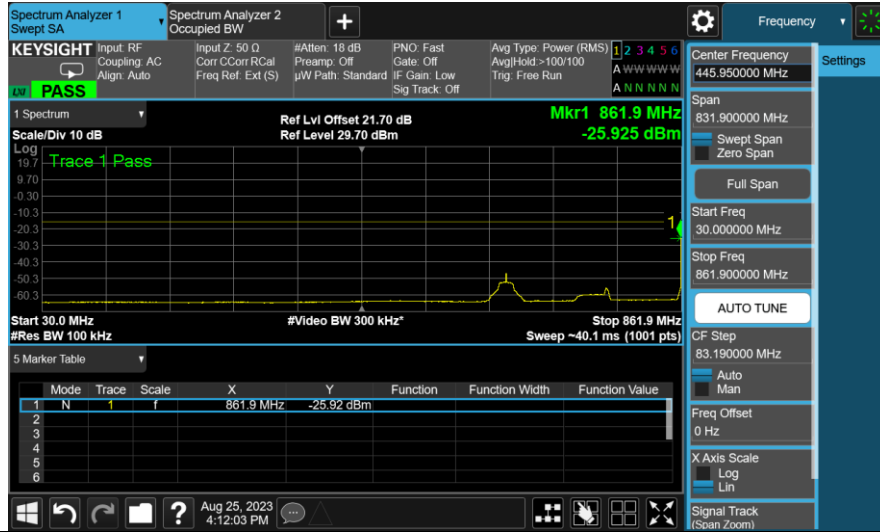
DL\_2S\_T\_AWGN\_AGC+3\_Out-of-band emission



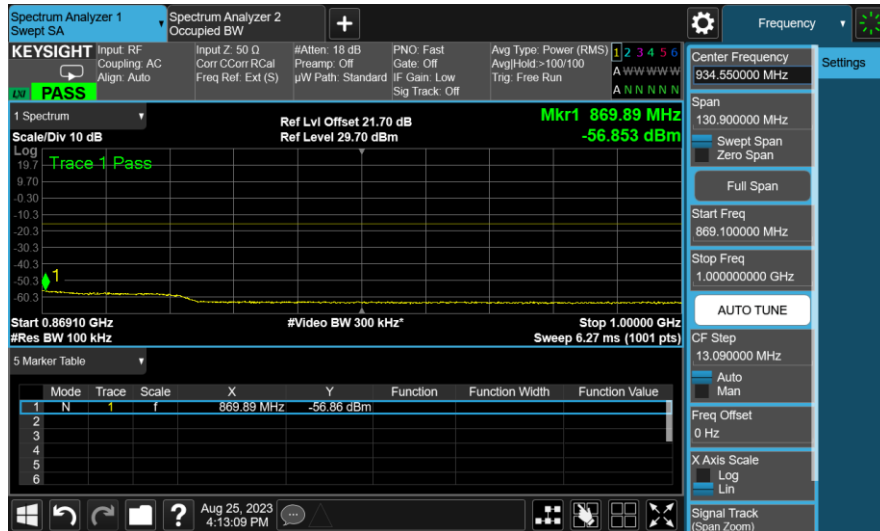
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DL\_1S\_B\_AWGN\_Pre-AGC\_Spurious emission 1



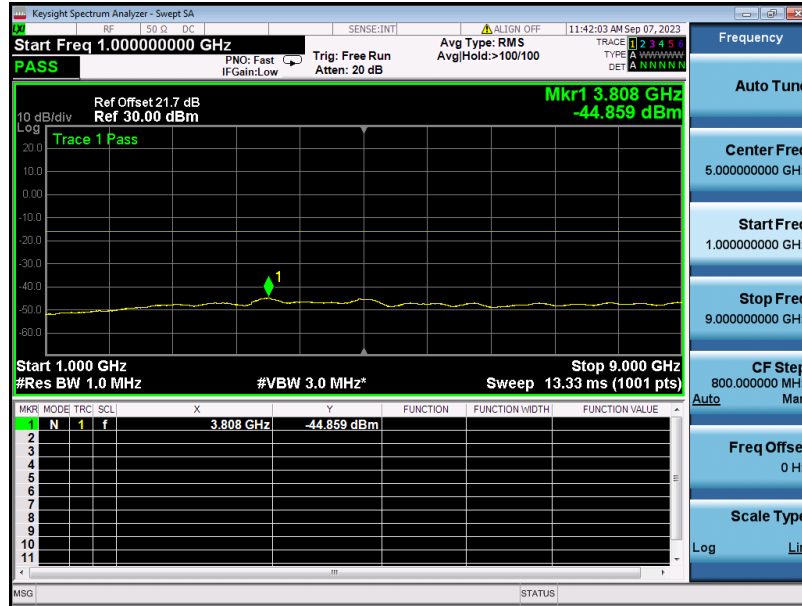
DL\_1S\_B\_AWGN\_Pre-AGC\_Spurious emission 2



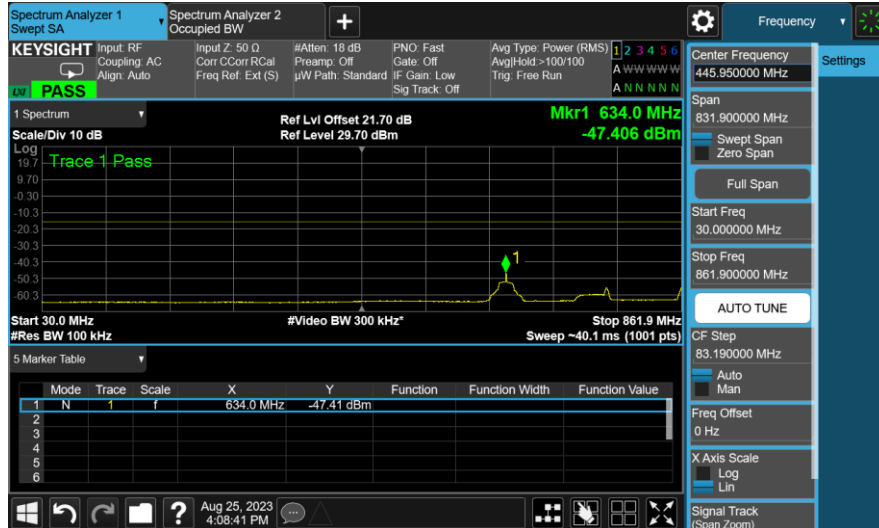
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DL\_1S\_B\_AWGN\_Pre-AGC\_Spurious emission 3

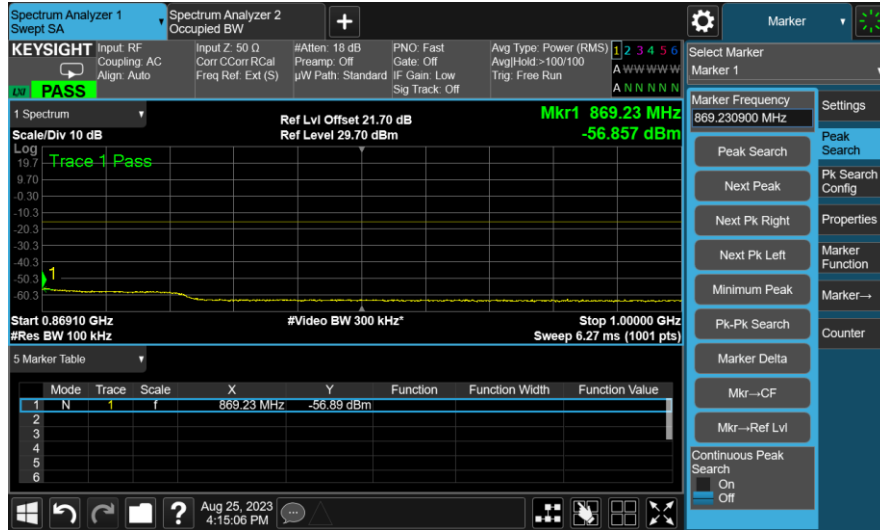


DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 1

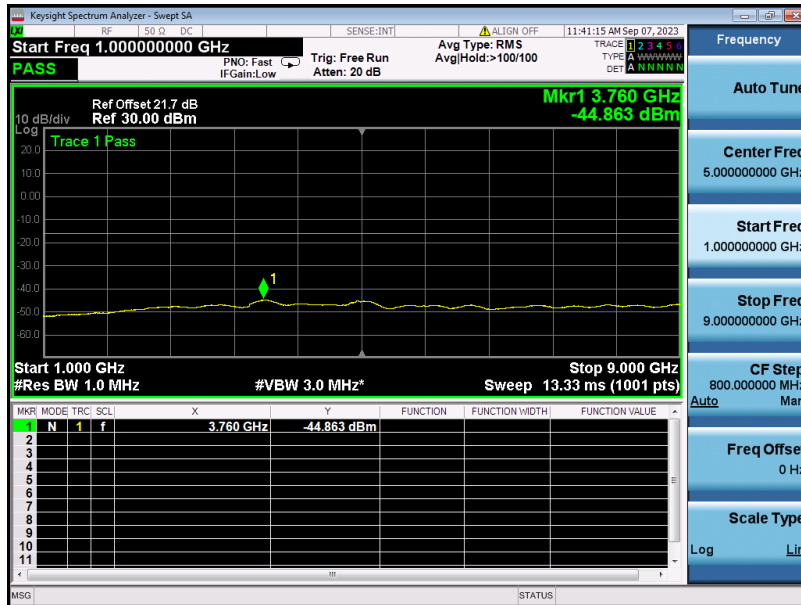


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### DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 2

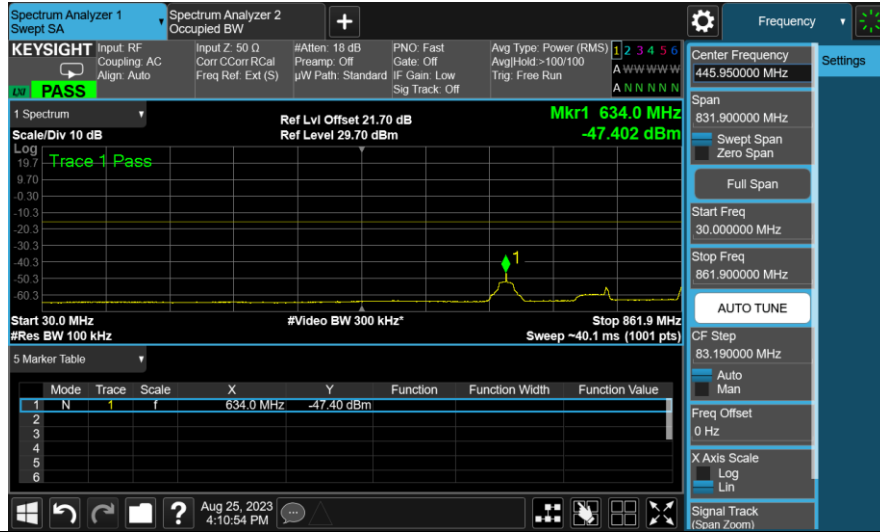


### DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 3

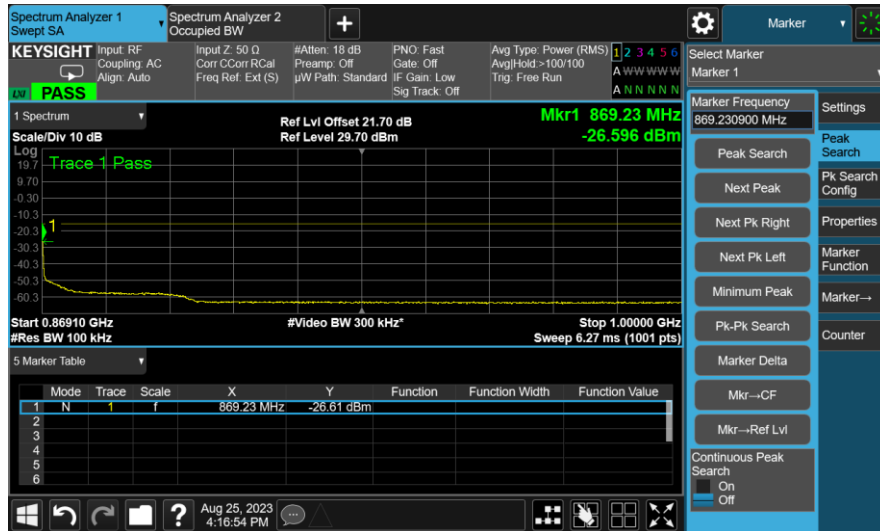


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DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 1



DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 2

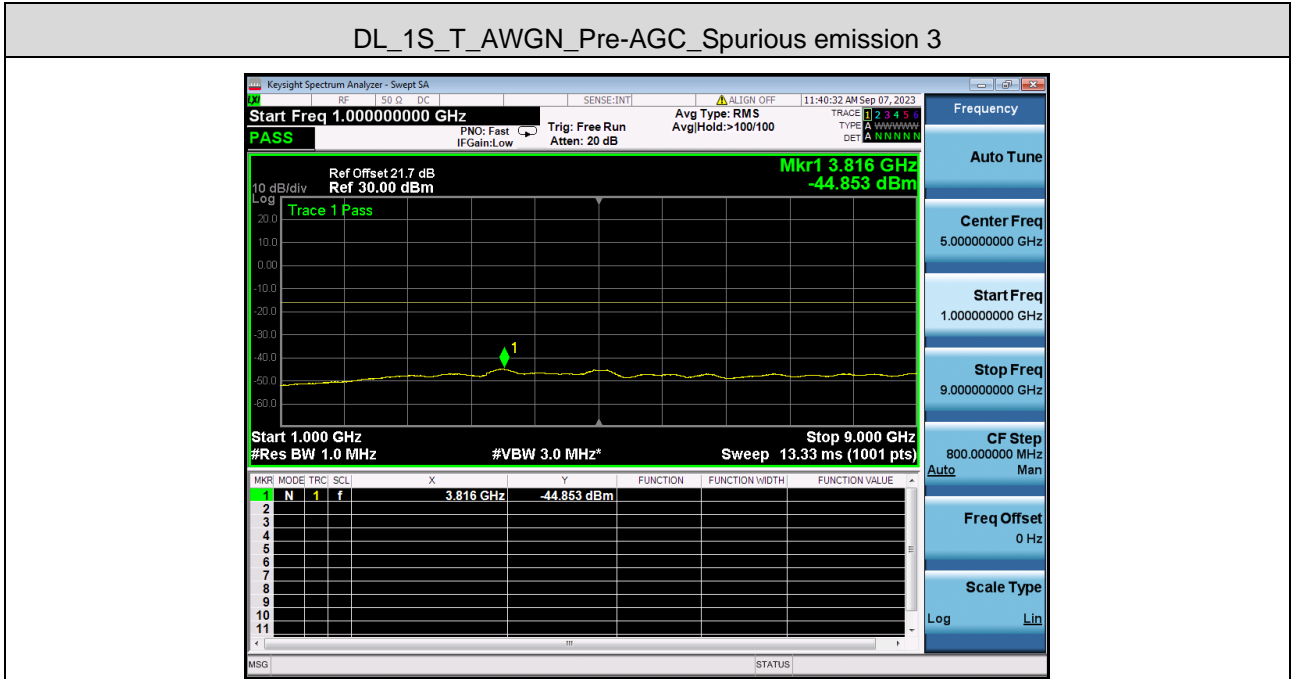


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### DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 3



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### 5.5 Frequency Stability

- Note:
1. At 10 °C intervals of temperatures between -30 °C and +50 °C at the manufacturer's rated supply voltage, here the rated supply voltage is DC 48V.
  2. At +20 °C temperature and ±15% supply voltage variations. If a product is specified to operate over a range of input voltage, then the -15% variation is applied to the lowermost voltage and the +15% is applied to the uppermost voltage.
  3. The frequency stabilities can be maintained within the authorized bands of operation and less than 1.5ppm. Meet the requirement.

Frequency stability vs temperature				
Temperature (°C)	Test Conf.	Frequency Error (Hz)	Tolerance (ppm)	Verdict
50	DL_1S_M_AWGN	102	0.12	PASS
40		129	0.15	PASS
30		125	0.14	PASS
20		131	0.15	PASS
10		128	0.15	PASS
0		110	0.13	PASS
-10		110	0.13	PASS
-20		102	0.12	PASS
-30		112	0.13	PASS

Frequency stability vs voltage				
Voltage (V)	Test Conf.	Frequency Error (Hz)	Tolerance (ppm)	Verdict
DC 40.8	DL_1S_M_AWGN	126	0.15	PASS
DC 48		129	0.15	PASS
DC 55.2		133	0.15	PASS



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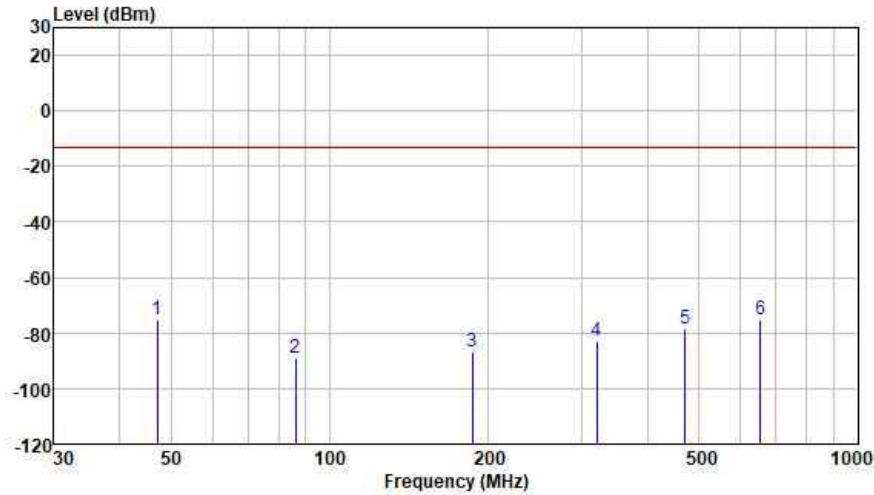
### 5.6 Radiated spurious emissions

- Note:
1. The tested max conducted power for single antenna port is 20.35dBm, the power of any emission must be reduced below the mean output power (P) by at least  $43 + 10 \log (P)$  dB  
Here,  $P=20.11\text{dBm}+20.11\text{dBm}= 0.2052\text{W}$ .  
the limit =  $P(\text{dBm}) - [43 + 10 \log (0.2052\text{W})] = -13\text{dBm}$
  2. The radiated test performed at bottom / middle / top channel, the data with more than 20db margin, therefore, only the worst-case middle channel test data was recorded in the report.
  3. The disturbance from 9kHz to 30MHz was very low and 20db below the limit, therefore, the data was not recorded in the report.



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### DL\_1S\_M\_AWGN\_Horizontal\_30MHz~1GHz



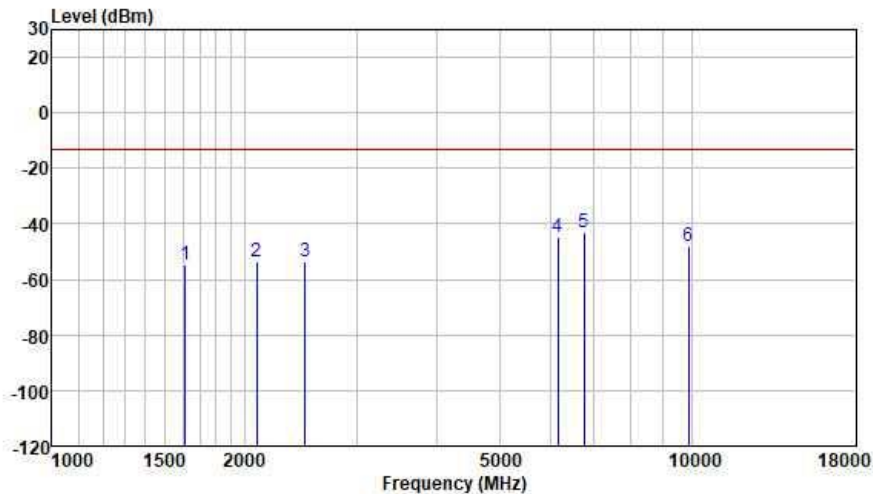
	Freq	Read Level	Correction Factor	Limit Level	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dB	
1	47.16	-71.96	-3.31	-13.00	-62.27	HORIZONTAL
2	86.20	-79.06	-9.91	-13.00	-75.97	HORIZONTAL
3	186.44	-80.46	-6.17	-13.00	-73.63	HORIZONTAL
4	319.94	-79.81	-3.10	-13.00	-69.91	HORIZONTAL
5	470.52	-78.98	0.33	-13.00	-65.65	HORIZONTAL
6	654.23	-78.99	3.83	-13.00	-62.16	HORIZONTAL



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### DL\_1S\_M\_AWGN\_Horizontal\_above 1GHz

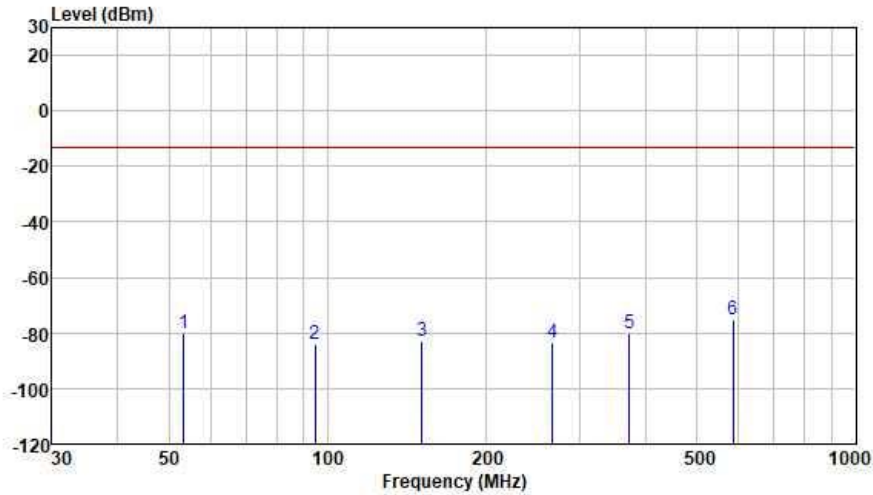


	Freq	Read Level	Correction Factor	Limit Level	Over Limit	Pol/Phase	
	MHz	dBm	dB	dBm	dB		
1	1615.75	-60.13	5.36	-54.77	-13.00	-41.77	HORIZONTAL
2	2089.75	-62.91	9.59	-53.32	-13.00	-40.32	HORIZONTAL
3	2485.48	-61.97	8.29	-53.68	-13.00	-40.68	HORIZONTAL
4	6177.63	-63.76	19.06	-44.70	-13.00	-31.70	HORIZONTAL
5	6776.27	-63.26	20.41	-42.85	-13.00	-29.85	HORIZONTAL
6	9866.79	-67.12	19.17	-47.95	-13.00	-34.95	HORIZONTAL



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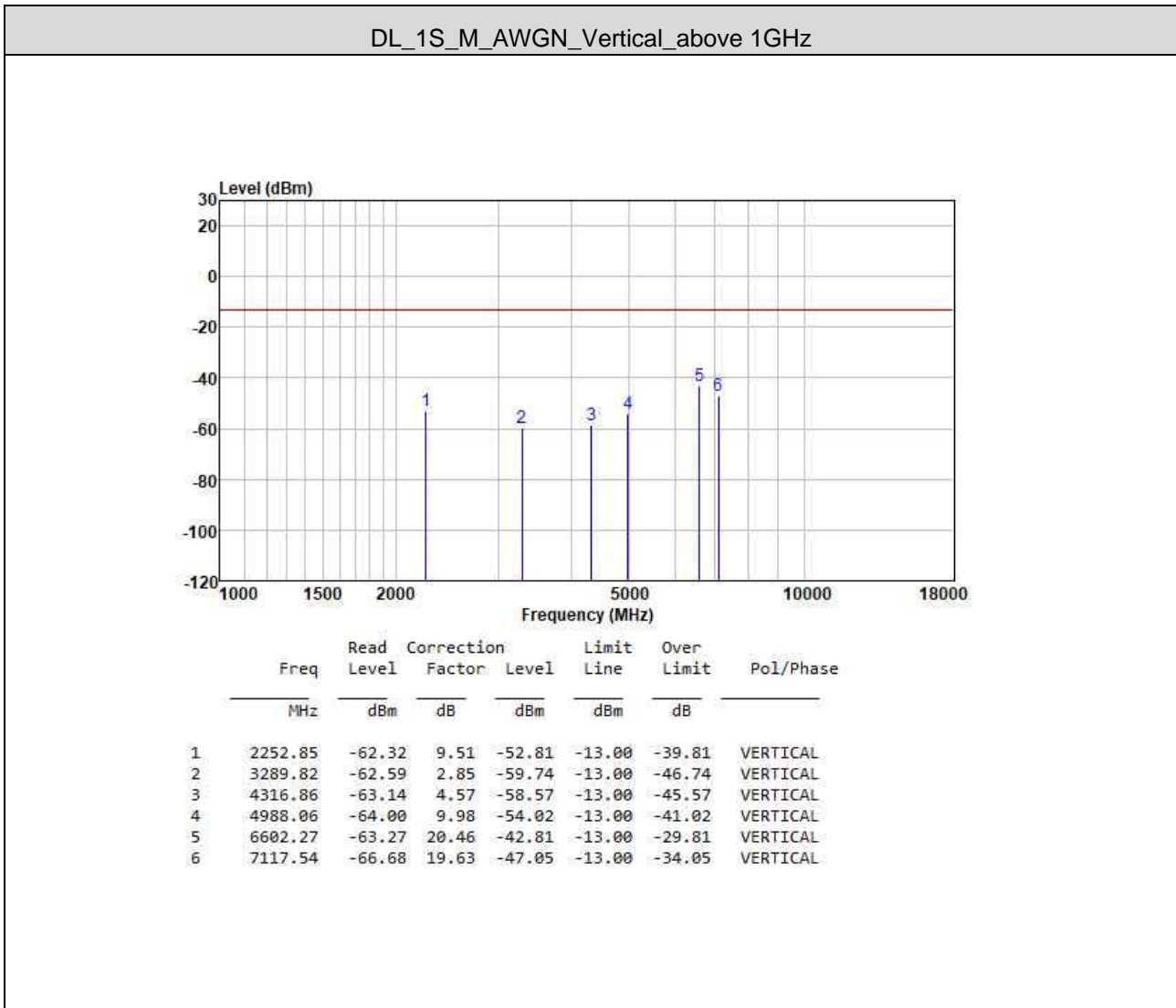
### DL\_1S\_M\_AWGN\_Vertical\_30MHz~1GHz



	Freq	Read Level	Correction Factor	Level	Limit	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	53.32	-74.36	-5.54	-79.90	-13.00	-66.90	VERTICAL
2	94.43	-78.21	-6.05	-84.26	-13.00	-71.26	VERTICAL
3	150.54	-79.09	-3.94	-83.03	-13.00	-70.03	VERTICAL
4	266.61	-79.62	-3.69	-83.31	-13.00	-70.31	VERTICAL
5	372.00	-79.01	-1.36	-80.37	-13.00	-67.37	VERTICAL
6	586.84	-78.81	3.41	-75.40	-13.00	-62.40	VERTICAL



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6 Cellular (824-849MHz paired with 869-894MHz)

6.1 AGC threshold level

Test Conf.	AGC Threshold level
DL_1S_M_AWGN	0.20dBm



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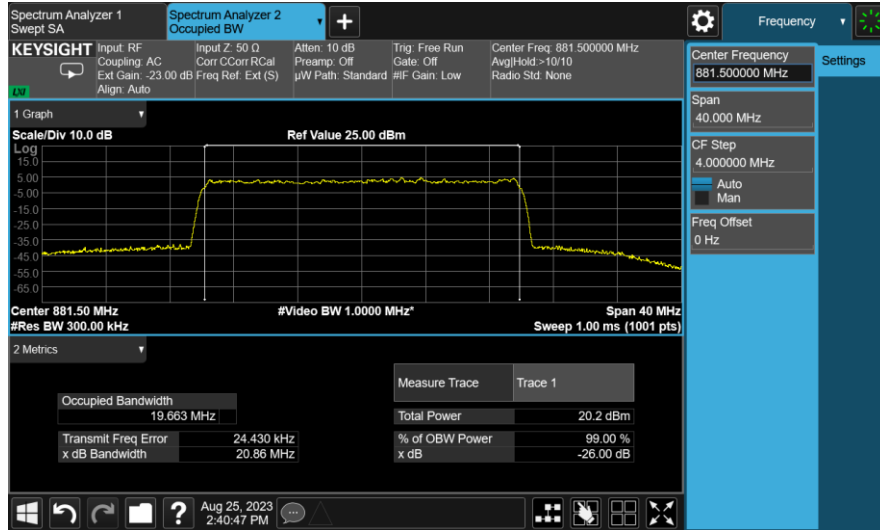
6.2 Input-versus-output signal comparison



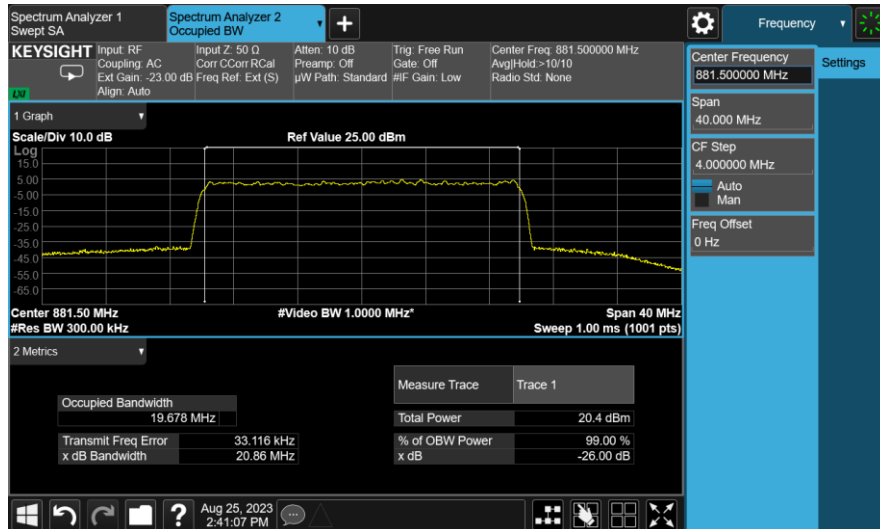
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Output\_DL\_1S\_M\_AWGN\_Pre-AGC\_OBW



Output\_DL\_1S\_M\_AWGN\_AGC+3dB\_OBW



Remark:

1. The band supports maximum channel BW is 20MHz for NR, so the output signal OBW was less than the input when 100MHz AWGN as input signal.
2. 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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6.3 Mean output power and amplifier/booster gain

Test Conf.	Test Freq. f <sub>0</sub> (MHz)	Signal Level	Input Power (dBm)	Output Power (dBm)	Gain (dB)	Verdict
DL_1S_AWGN	886.71	Pre-AGC	0.20	20.13	19.93	PASS
		AGC+3dB	3.20	20.05	/	PASS

Remark:

According to the declaration from the applicant, the single antenna gain should not exceed 12.5dBi, the Directional gain = G(ANT) + 10 log (NANT) dBi = 12.5dBi+10log (2) dBi= 15.5dBi.

ERP= EIRP-2.15dB,

The total maximum ERP for the EUT is (20.13dBm+20.13dBm) +15.5dBi-2.15dB=36.49dBm (4.457W) which don't exceed the required ERP limit (500W).



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6.4 Out-of-band/out-of-block (including intermodulation) emissions and spurious emissions

Note: 1. The tested max conducted power for single antenna port is 20.13dBm, the power of any emission must be reduced below the mean output power (P) by at least 43 + 10log (P) dB  
Here,

$$P=20.13\text{dBm}= 0.1030\text{W}.$$

So the limit =

$$P(\text{dBm})- [43 + 10 \log (0.1030\text{W})] =-13\text{dBm}$$

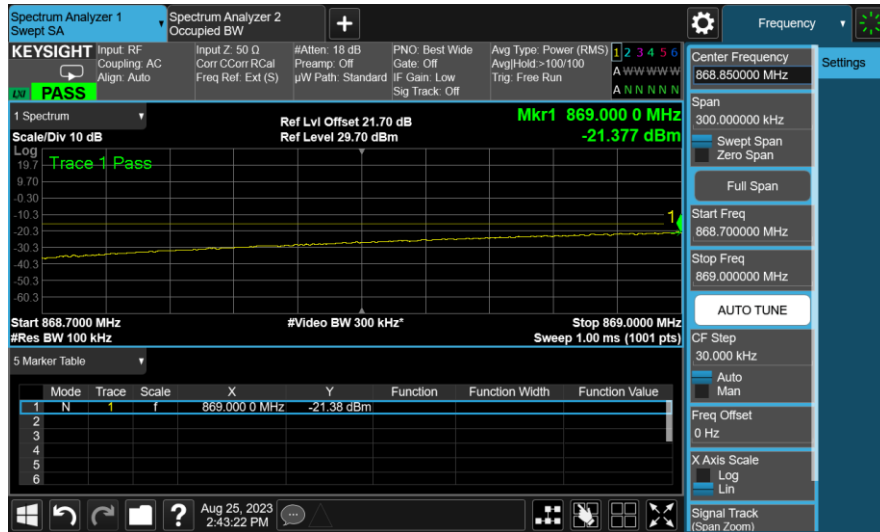
The EUT supports 2x2 MIMO and the emissions were measured at one of output port, so the limit line was set to -16.01dBm in following test plots in order to determine the test result conveniently.

2. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.

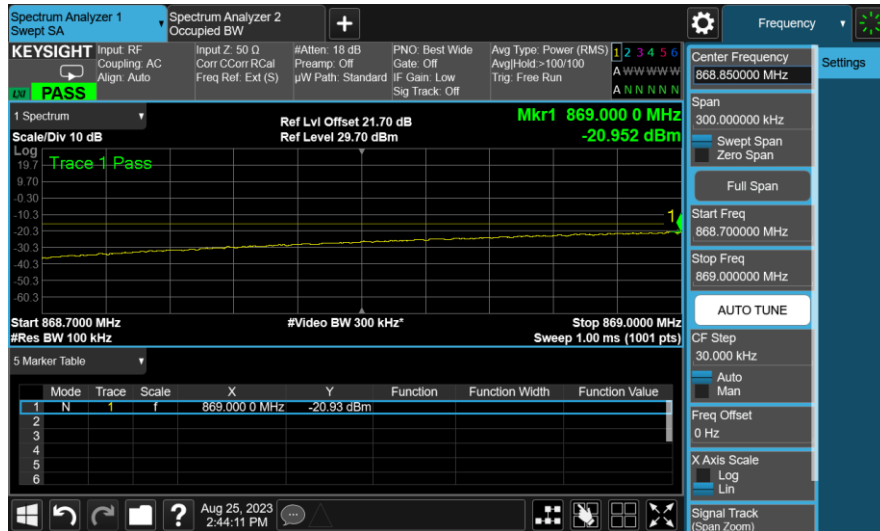


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DL\_1S\_B\_AWGN\_Pre-AGC\_Out-of-band emission



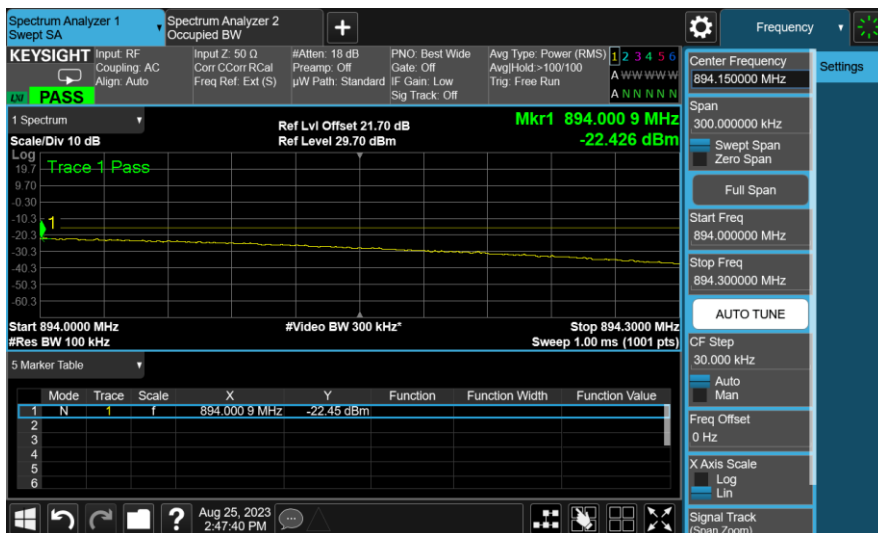
DL\_1S\_B\_AWGN\_AGC+3\_Out-of-band emission



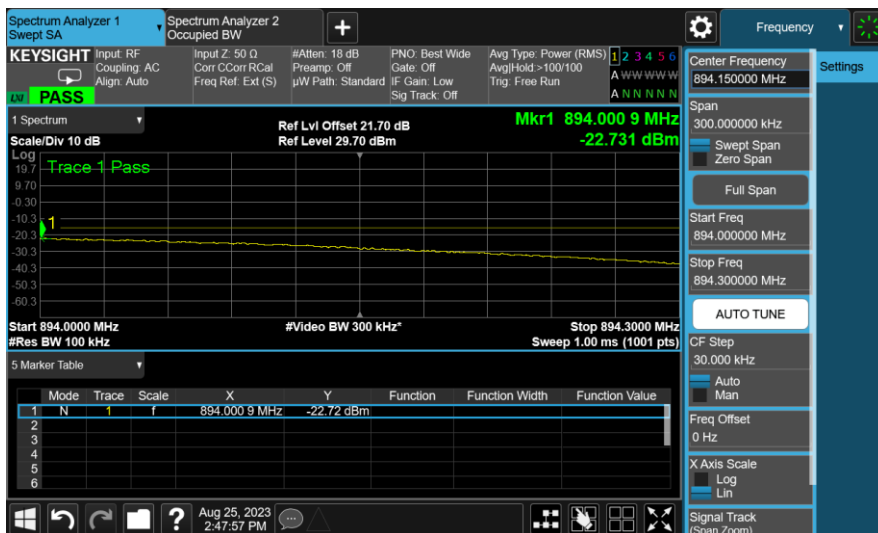
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DL\_1S\_T\_AWGN\_Pre-AGC\_Out-of-band emission

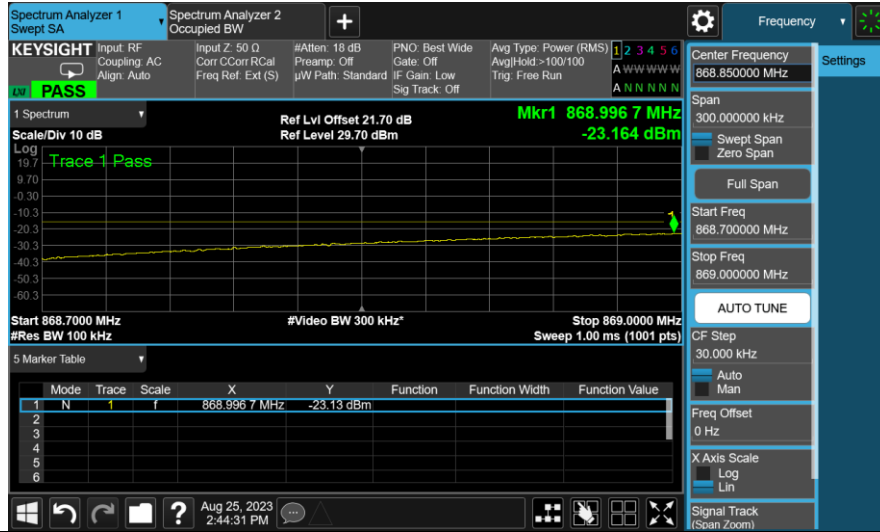


DL\_1S\_T\_AWGN\_AGC+3\_Out-of-band emission

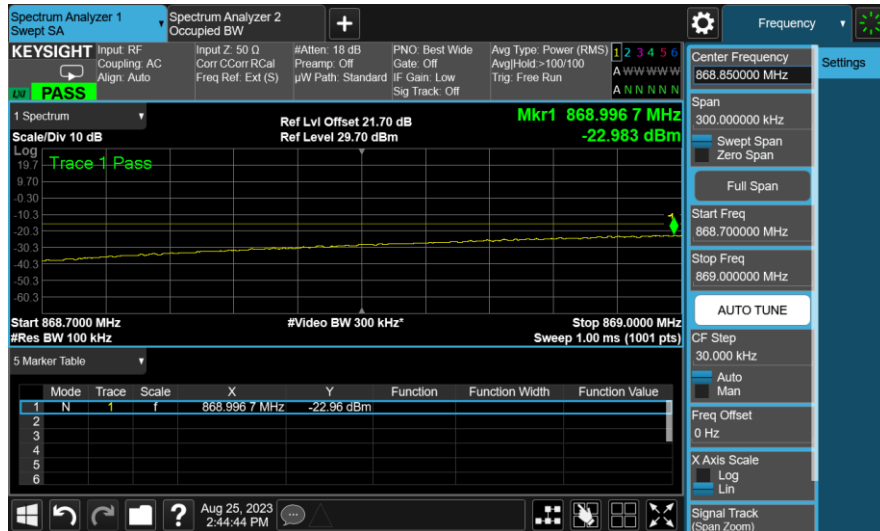


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DL\_2S\_B\_AWGN\_Pre-AGC\_Out-of-band emission



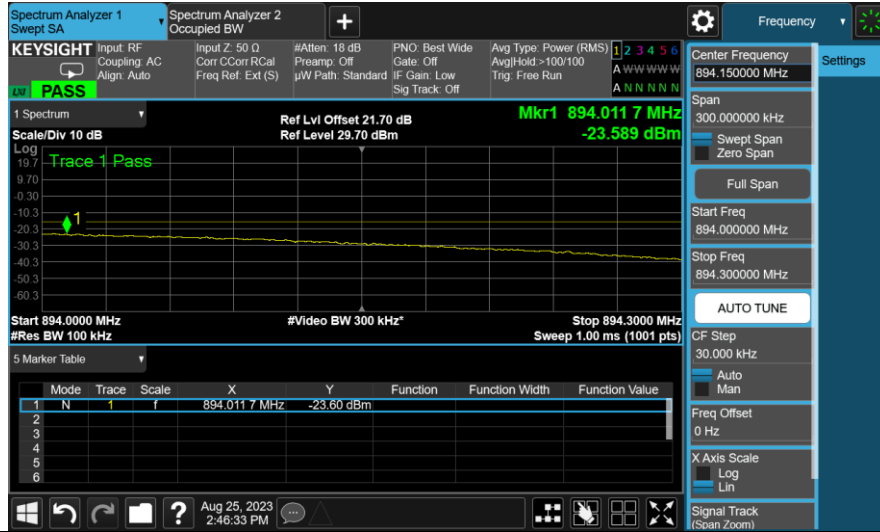
DL\_2S\_B\_AWGN\_AGC+3\_Out-of-band emission



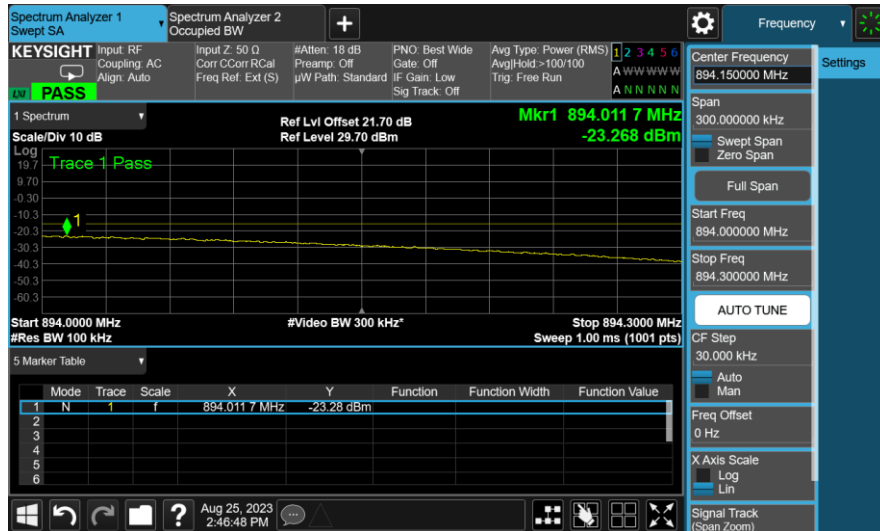
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DL\_2S\_T\_AWGN\_AGC+3\_Out-of-band emission

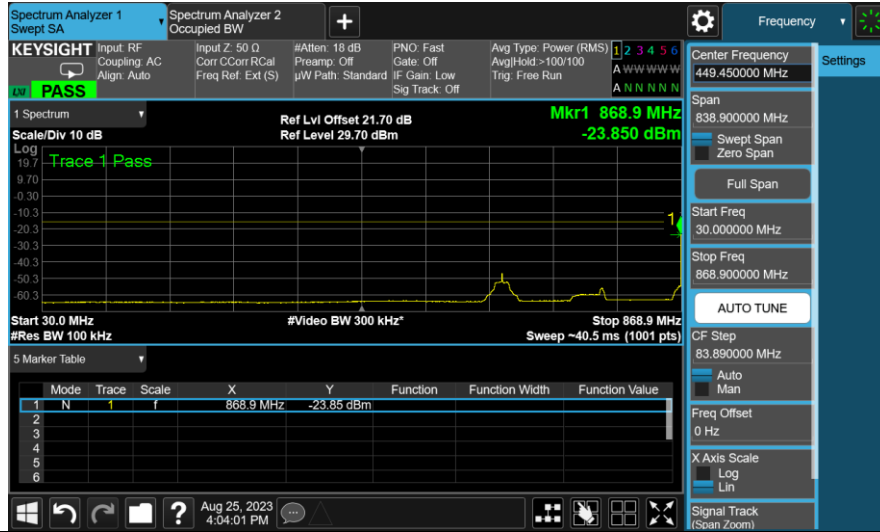


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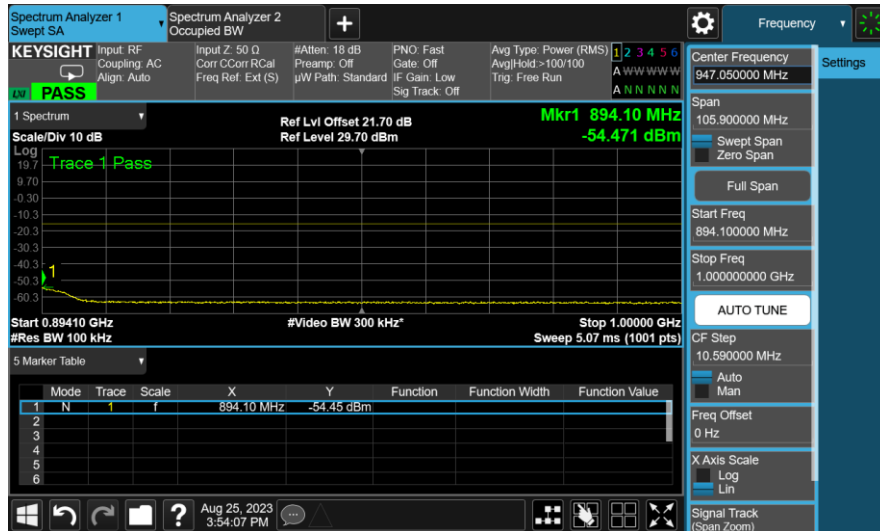
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DL\_1S\_B\_AWGN\_Pre-AGC\_Spurious emission 1



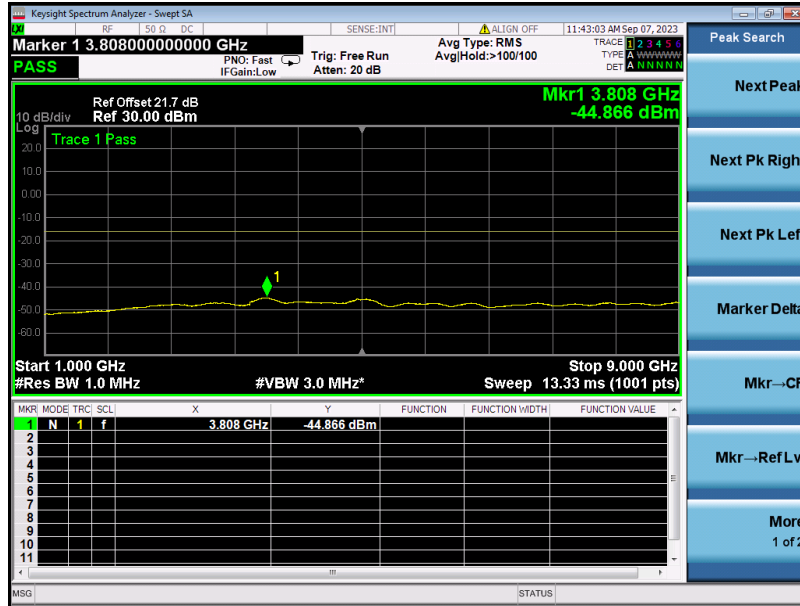
DL\_1S\_B\_AWGN\_Pre-AGC\_Spurious emission 2



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### DL\_1S\_B\_AWGN\_Pre-AGC\_Spurious emission 3

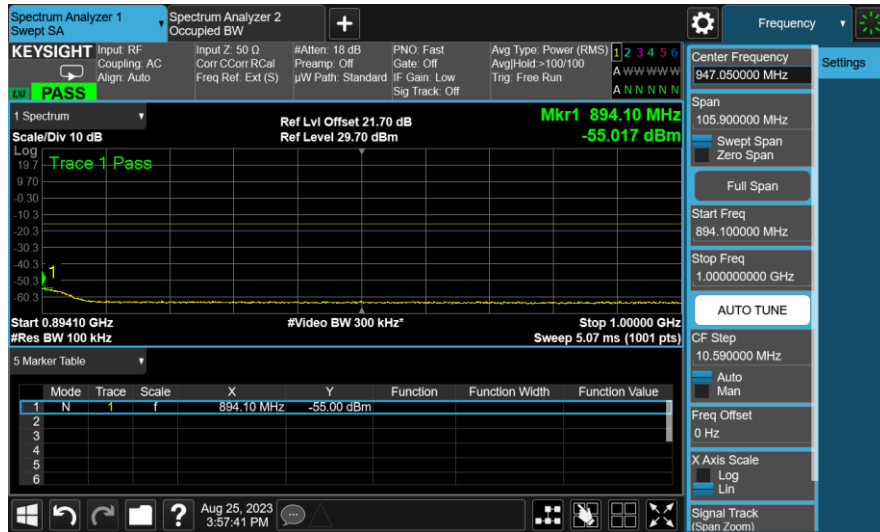


### DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 1

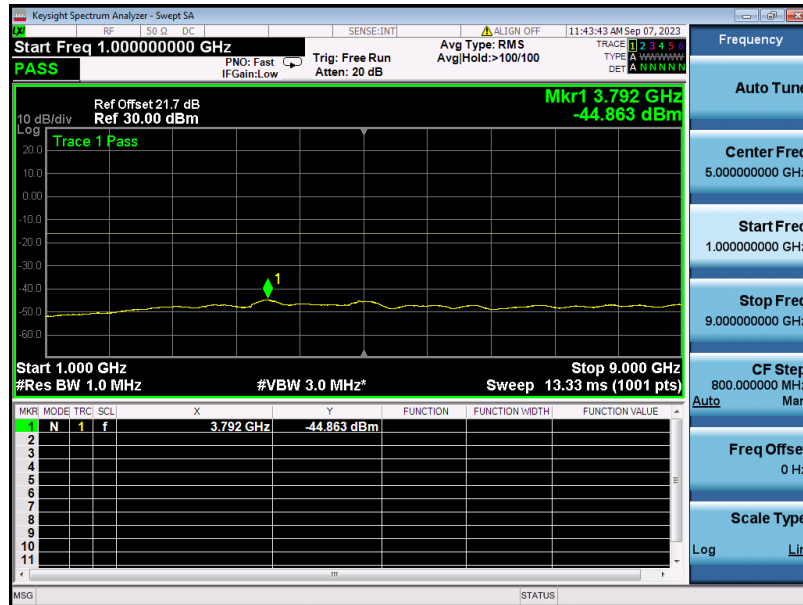


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### DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 2



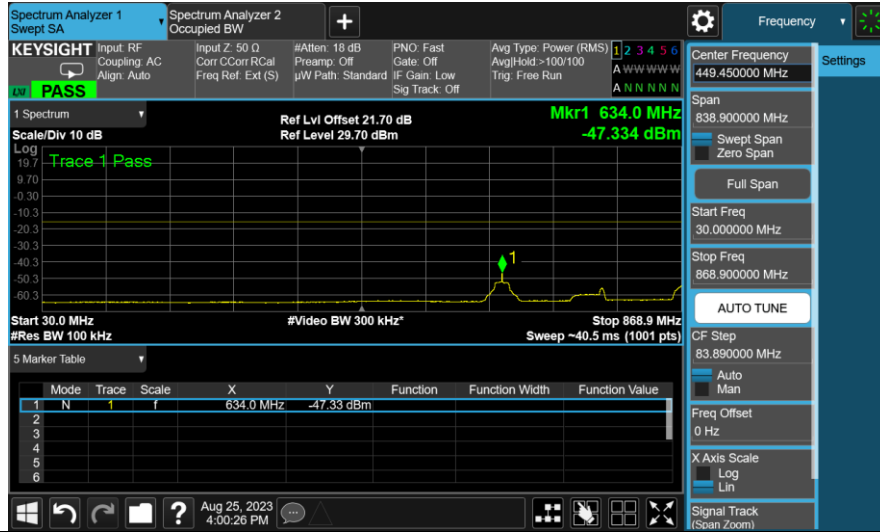
### DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 3



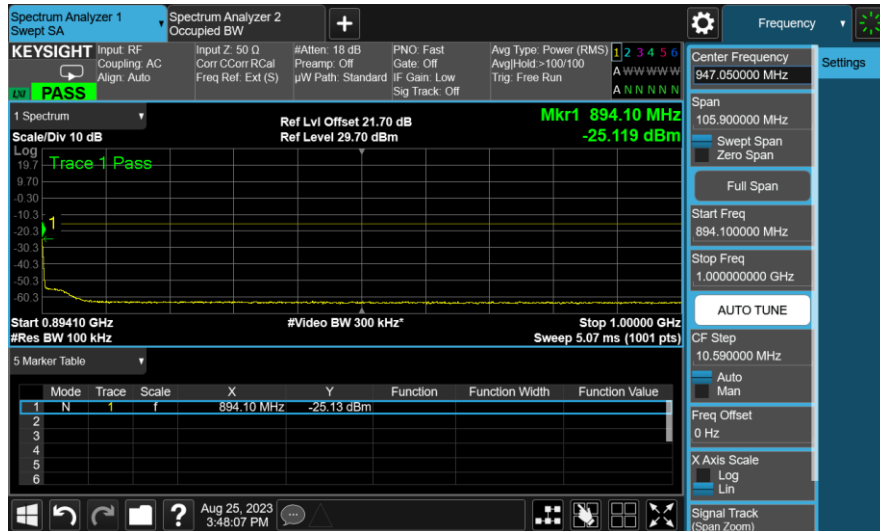
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DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 1



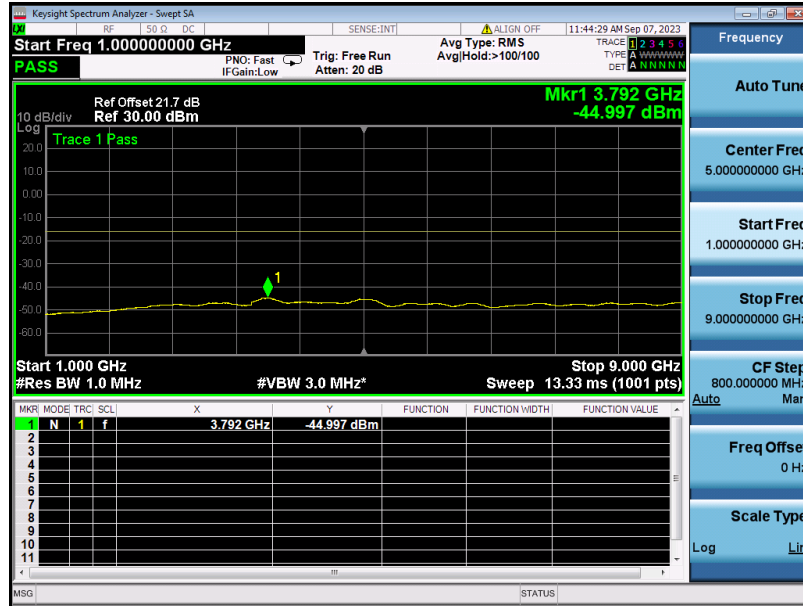
DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 2



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### DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 3



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### 6.5 Frequency Stability

- Note:
1. At 10 °C intervals of temperatures between -30 °C and +50 °C at the manufacturer's rated supply voltage, here the rated supply voltage is DC 48V.
  2. At +20 °C temperature and ±15% supply voltage variations. If a product is specified to operate over a range of input voltage, then the -15% variation is applied to the lowermost voltage and the +15% is applied to the uppermost voltage.
  3. The frequency stabilities can be maintained within the authorized bands of operation. Meet the requirement.
  4. Frequency stability has been tested using an AWGN test signal and a GSM-TDMA test signal, only the worst-case was recorded in this report.

Frequency stability vs temperature				
Temperature (°C)	Test Conf.	Frequency Error (Hz)	Tolerance (ppm)	Verdict
50	DL_1S_M_AWGN	131	0.15	PASS
40		112	0.13	PASS
30		126	0.14	PASS
20		138	0.16	PASS
10		102	0.12	PASS
0		122	0.14	PASS
-10		144	0.16	PASS
-20		144	0.16	PASS
-30		107	0.12	PASS

Frequency stability vs voltage				
Voltage (V)	Test Conf.	Frequency Error (Hz)	Tolerance (ppm)	Verdict
DC 40.8	DL_1S_M_AWGN	135	0.15	PASS
DC 48		130	0.15	PASS
DC 55.2		128	0.15	PASS



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## 6.6 Radiated spurious emissions

Note: 1. The tested max conducted power for single antenna port is 20.13dBm, the 2x2 MIMO total power is 20.13dBm+20.13dBm= 0.2061W, the power of any emission must be reduced below the mean output power (P) by at least 43 + 10log (P) dB

Here,

$$P=20.13\text{dBm}+20.13\text{dBm}= 0.2061\text{W}.$$

So the limit =

$$P(\text{dBm})- [43 + 10 \log (0.2061\text{W})] =-13\text{dBm}$$

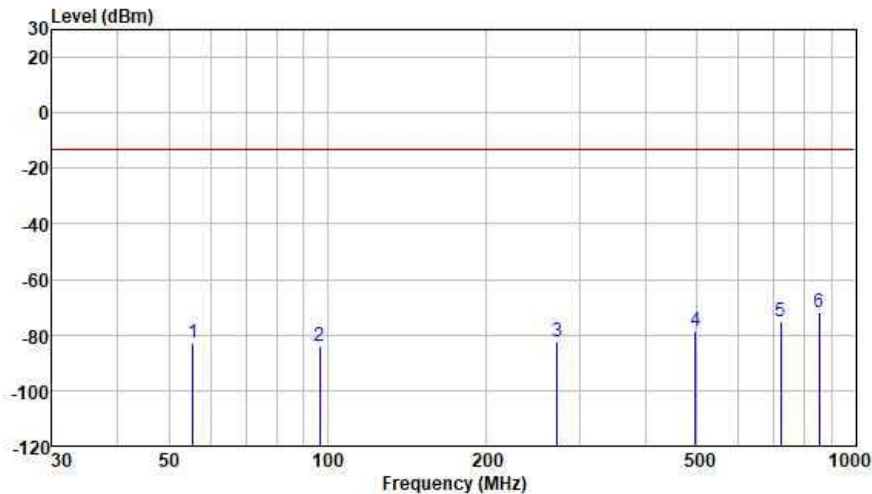
2. The radiated test performed at bottom / middle / top channel, the data with more than 20db margin, therefore, only the worst-case middle channel test data was recorded in the report.

3. The disturbance from 9kHz to 30MHz was very low and 20db below the limit, therefore, the data was not recorded in the report.



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### DL\_1S\_M\_AWGN\_Horizontal\_30MHz~1GHz



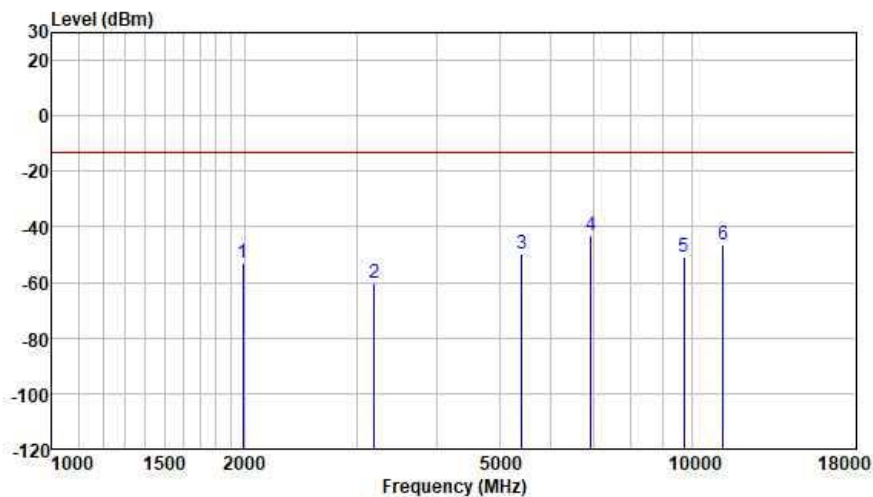
	Freq	Read Level	Correction Factor	Limit Level	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dB	
1	55.41	-81.02	-2.02	-83.04	-70.04	HORIZONTAL
2	96.44	-74.41	-9.67	-84.08	-71.08	HORIZONTAL
3	272.28	-79.55	-2.88	-82.43	-69.43	HORIZONTAL
4	497.68	-78.83	0.38	-78.45	-65.45	HORIZONTAL
5	721.73	-78.65	3.65	-75.00	-62.00	HORIZONTAL
6	854.02	-79.07	7.28	-71.79	-58.79	HORIZONTAL



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### DL\_1S\_M\_AWGN\_Horizontal\_above 1GHz



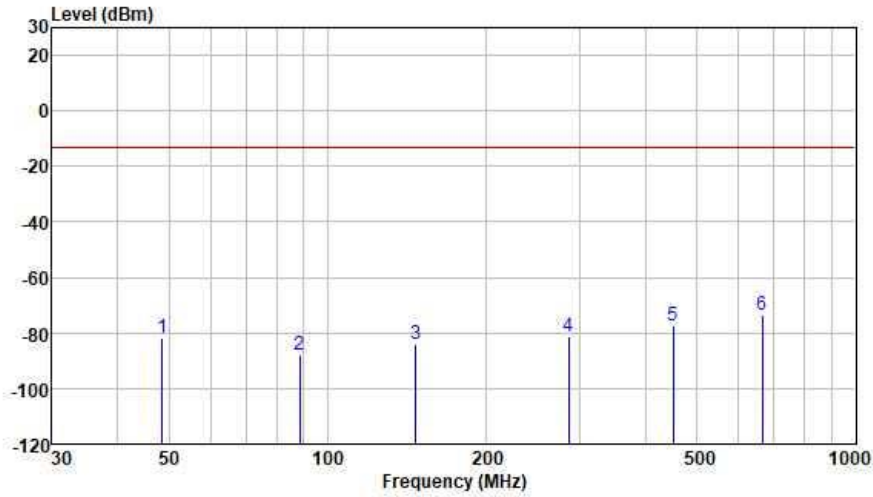
	Freq	Read Level	Correction Factor	Limit Level	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dB	
1	1989.55	-62.36	9.58	-52.78	-13.00	HORIZONTAL
2	3186.87	-62.38	2.24	-60.14	-13.00	HORIZONTAL
3	5424.18	-63.40	13.46	-49.94	-13.00	HORIZONTAL
4	6954.85	-62.93	19.66	-43.27	-13.00	HORIZONTAL
5	9697.15	-69.03	18.16	-50.87	-13.00	HORIZONTAL
6	11172.56	-69.25	22.71	-46.54	-13.00	HORIZONTAL



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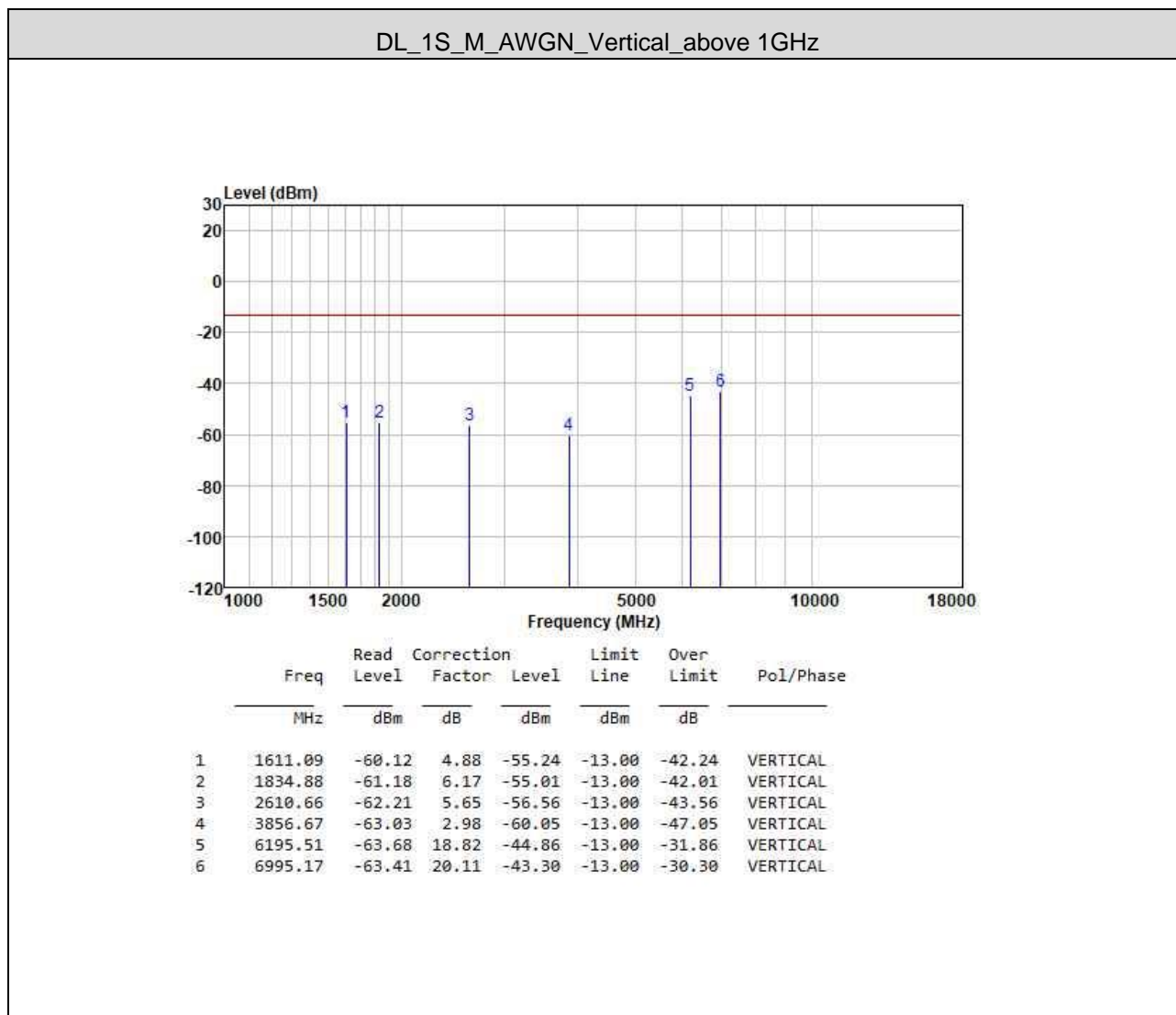
### DL\_1S\_M\_AWGN\_Vertical\_30MHz~1GHz



	Freq	Read Level	Correction Factor	Limit Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	48.50	-73.51	-8.28	-81.79	-13.00	-68.79	VERTICAL
2	88.34	-79.47	-8.35	-87.82	-13.00	-74.82	VERTICAL
3	146.89	-79.92	-3.93	-83.85	-13.00	-70.85	VERTICAL
4	285.98	-78.30	-2.70	-81.00	-13.00	-68.00	VERTICAL
5	451.14	-78.82	1.50	-77.32	-13.00	-64.32	VERTICAL
6	665.80	-78.09	4.84	-73.25	-13.00	-60.25	VERTICAL



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--End of Appendix--



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