

# Appendix -

## Test Data and Result for report

### GZCR230300024803 (A)

(For copied data)



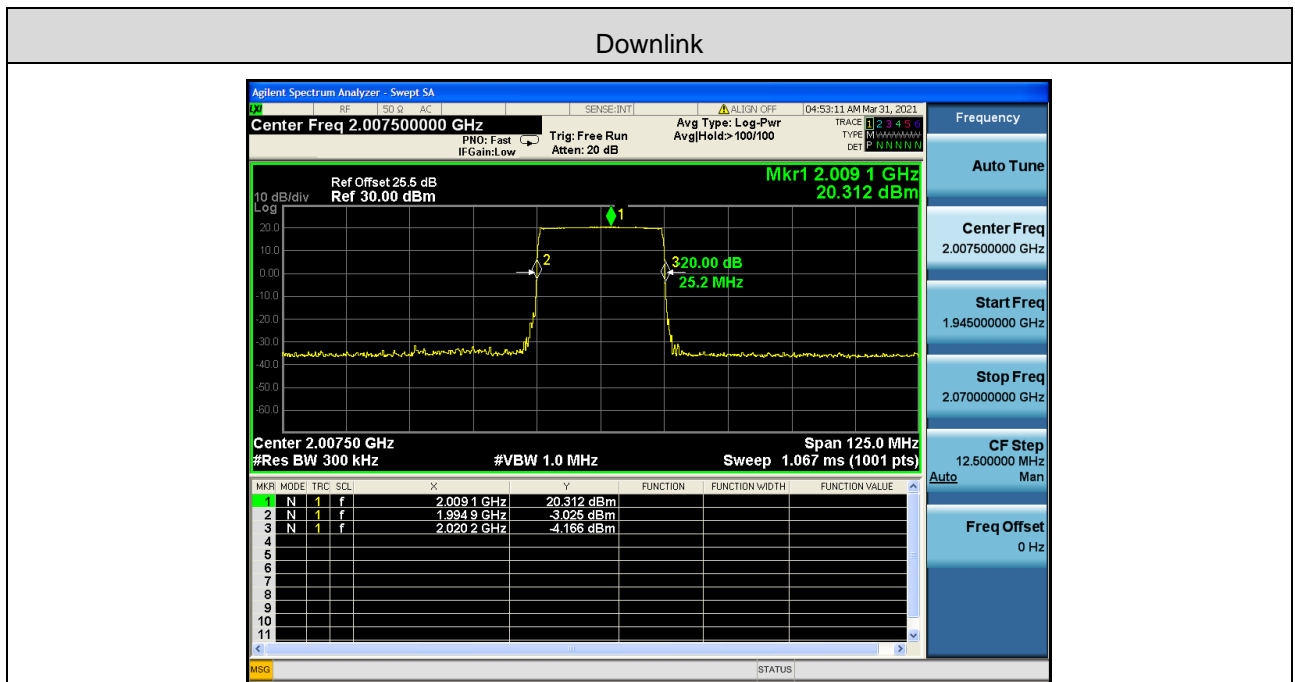
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### 1 AWS-2 & AWS-4 (only for downlink: 1995-2020MHz)

#### 1.1 AGC threshold level

Test Conf.	AGC Threshold level
DL_1S_M_AWGN	-0.20dBm
DL_1S_M_GSM	-0.25dBm

#### 1.2 Out-of-band rejection



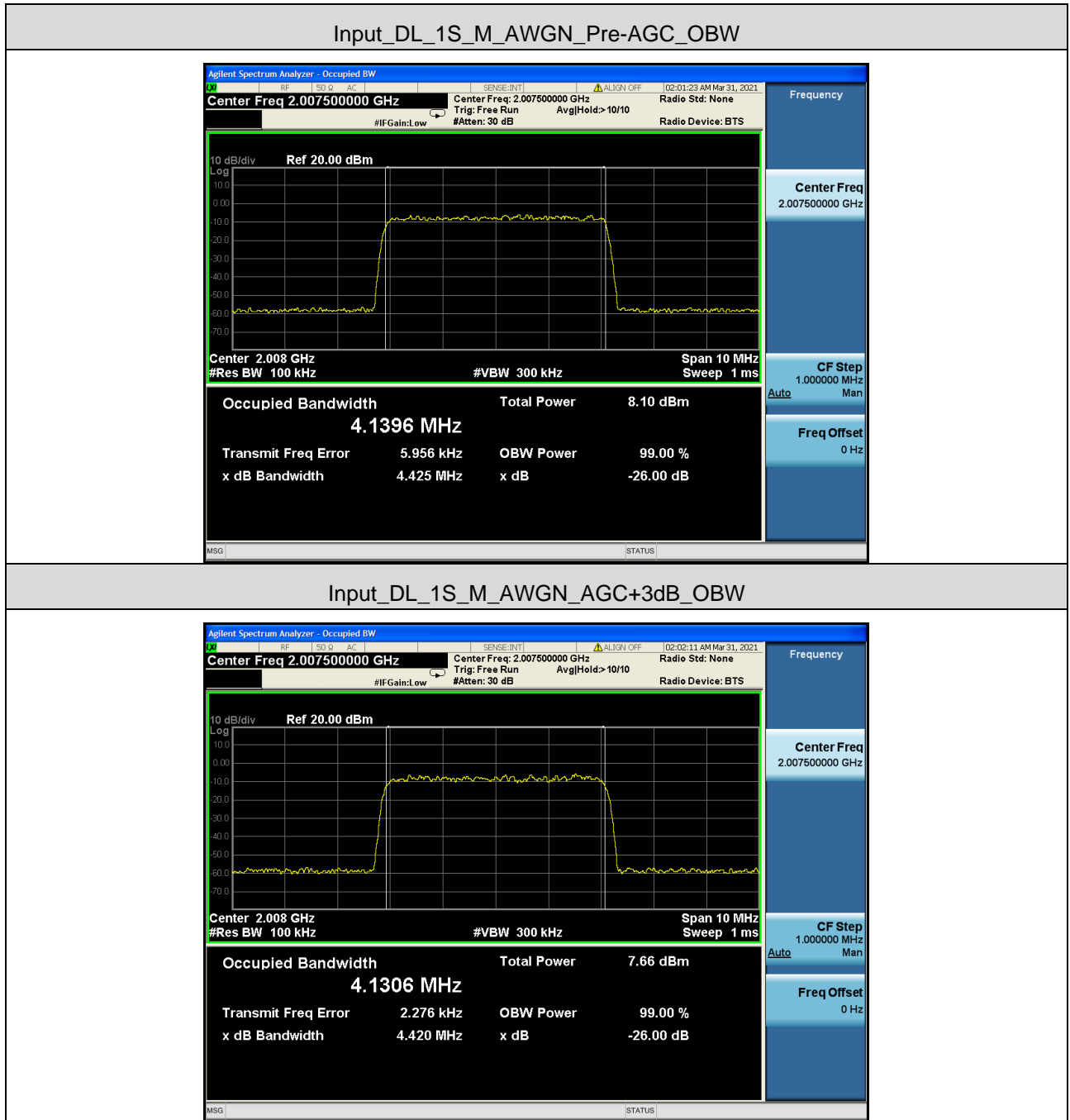
The peak of the frequency response  $f_0$  is 2009.1MHz



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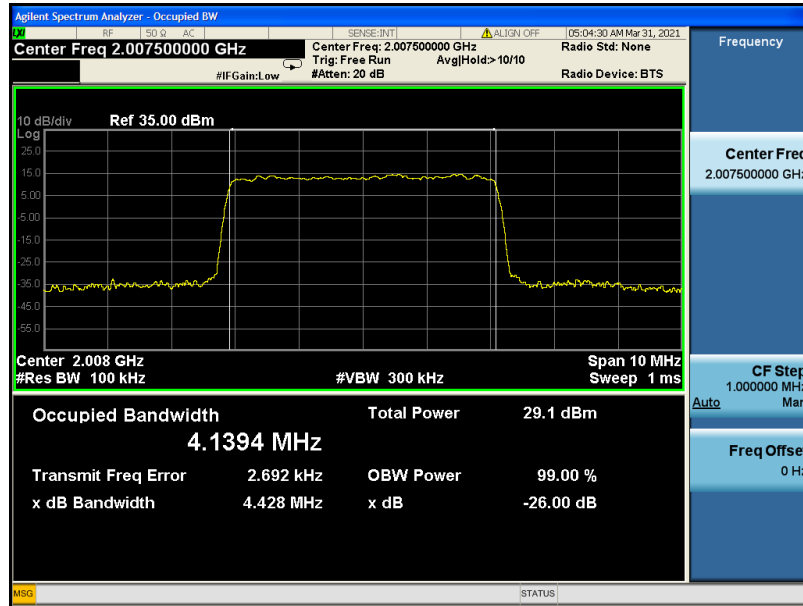
### 1.3 Input-versus-output signal comparison



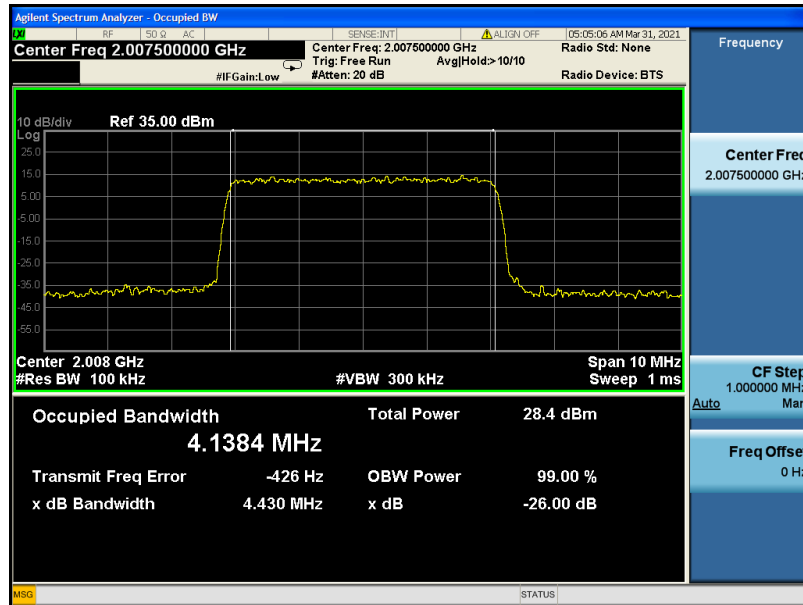
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Output\_DL\_1S\_M\_AWGN\_Pre-AGC\_OBW



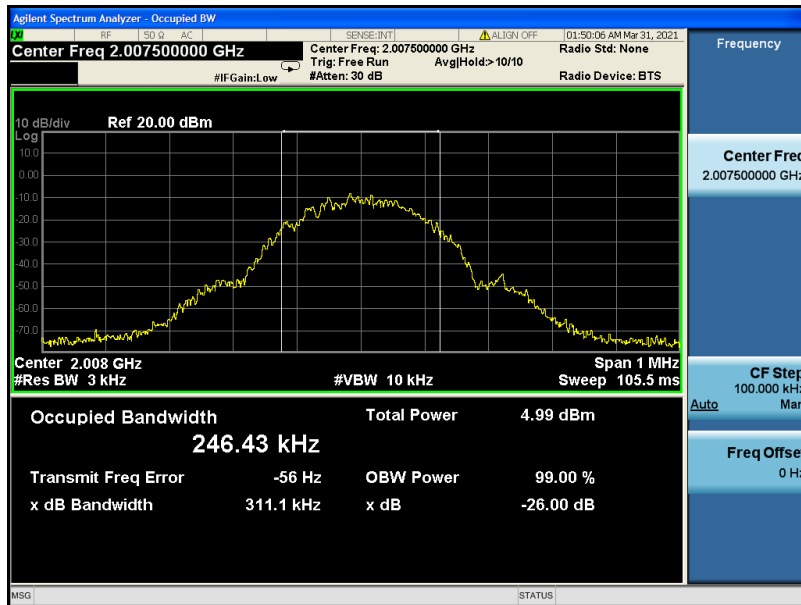
Output\_DL\_1S\_M\_AWGN\_AGC+3dB\_OBW



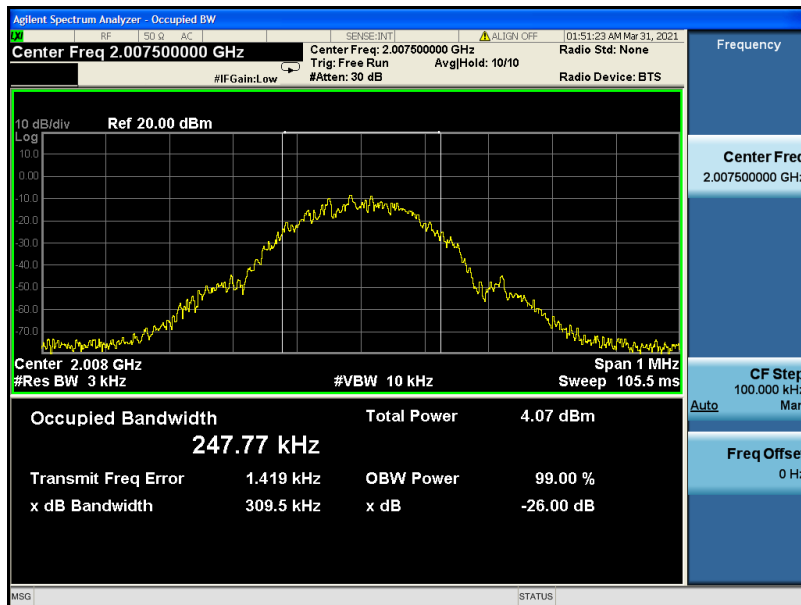
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### Input\_DL\_1S\_M\_GSM\_Pre-AGC\_OBW



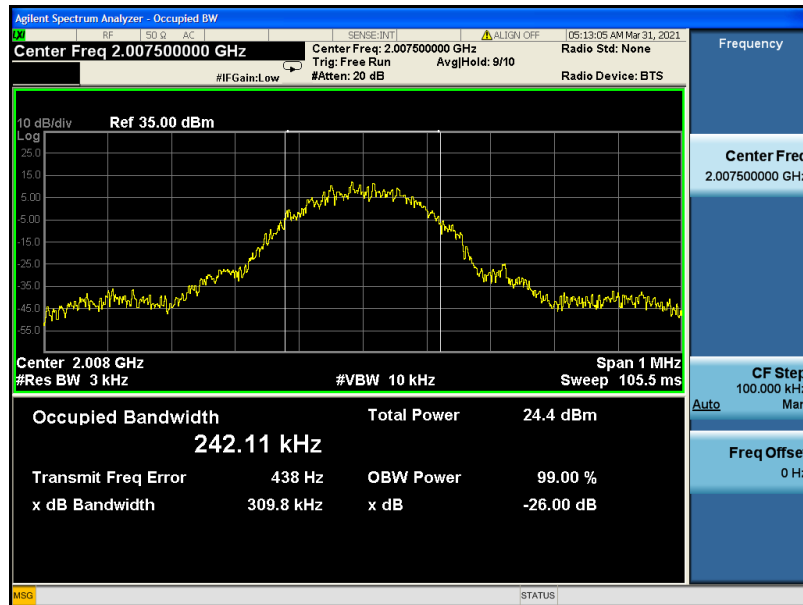
### Input\_DL\_1S\_M\_GSM\_AGC+3dB\_OBW



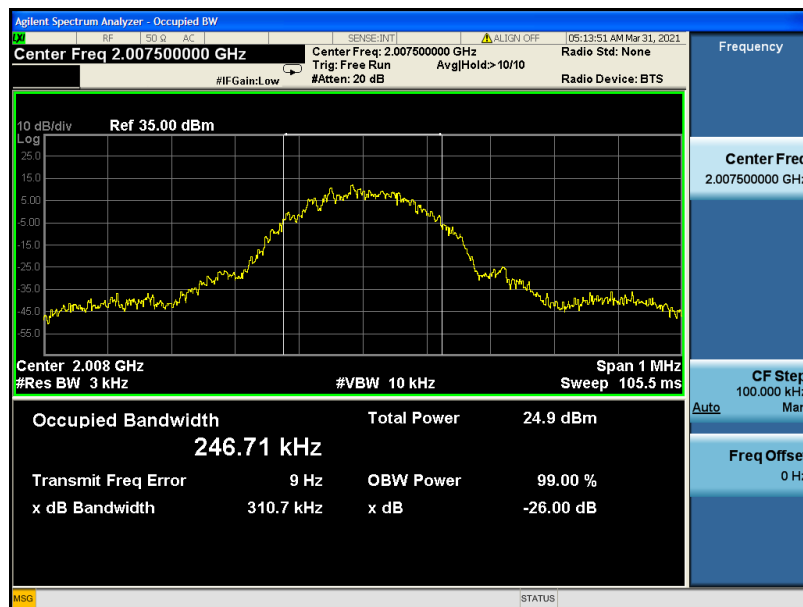
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Output\_DL\_1S\_M\_GSM\_Pre-AGC\_OBW



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



Remark:

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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1.4 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	2009.1	Pre-AGC	-0.30	20.10	20.40	PASS
		AGC+3dB	2.70	20.24	/	PASS
DL_1S_GSM	2009.1	Pre-AGC	-0.35	20.26	20.61	PASS
		AGC+3dB	2.65	20.18	/	PASS

Remark:

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

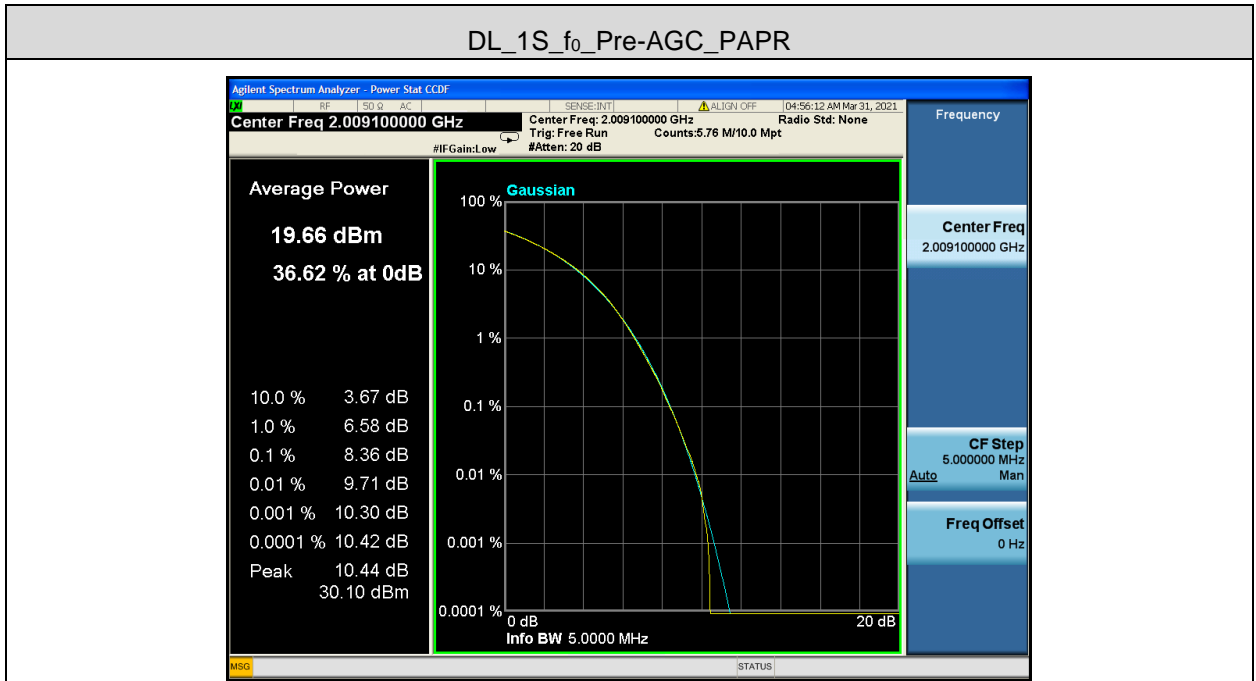
The total maximum EIRP for the EUT is (20.26dBm+20.26dBm) +15.5dBi=38.92dBm (7.80W) which don't exceed the required EIRP limit (1640W/MHz).

2. Based on discussion in docket No. DA 13-2409 (section 26 & 47) for operation in 2000-2020MHz in downlink, only 27.50(d)(1) and 27.50(d)(2) apply.



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Test Conf.	Test Freq. f <sub>0</sub> (MHz)	Signal Level	PAPR (dB)	Limit (dB)	Verdict
DL_1S_AWGN	2009.1	Pre-AGC	9.71	13	PASS



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

Note: The EUT support 2x2 MIMO, Per 662911 D01 Multiple Transmitter Output v02r01 clause (3)(a)(iii): Measure and add 10 log(NANT) dB, where NANT is the number of outputs to combine the emission measurements from multiple outputs prior to comparing to the emission limit.

Here, the factor 10 log (NANT) dB= 10 log (2) dB=3.01dB.

1. The tested max conducted power for single antenna port is 20.26dBm, 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 log10 (P) dB

Here,

$$P=20.26\text{dBm}= 0.1062\text{W}.$$

So the limit =

$$P(\text{dBm})- [43 + 10 \log (0.1062\text{W})] =-13\text{dBm}$$

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. Based on discussion in docket No. DA 13-2409 (section 26 & 47) for operation in 2000-2020MHz in downlink, only 27.53(h)(1) and 27.53(h)(3) apply.

3. Pretest performe at AWS-2 : 1995MHz to 2000MHz block ;

Pretest performe at AWS-4 : 2000MHz to 2020MHz block ;

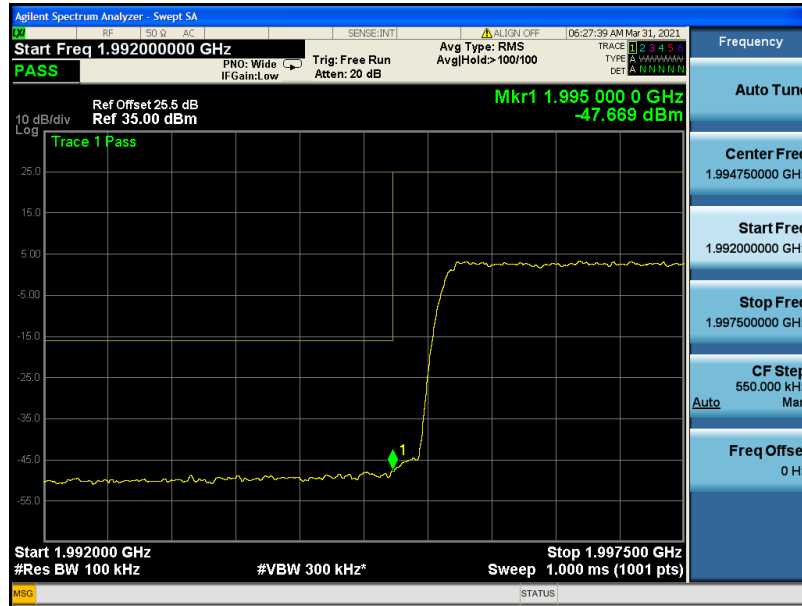
Pretest performe at combined AWS-4 and AWS-2 : 1995MHz to 2020MHz block ;

As the emission limit of above sub-block are identical, therefore, only the worst-case combined AWS-4 and AWS-2 block test plot was record in the report.

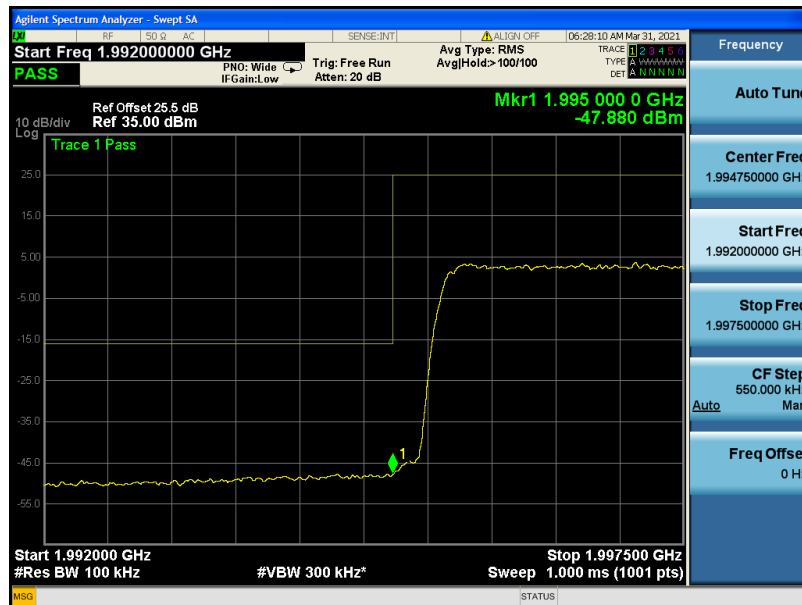


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### DL\_1S\_B\_AWGN\_Pre-AGC\_Out-of-band emission



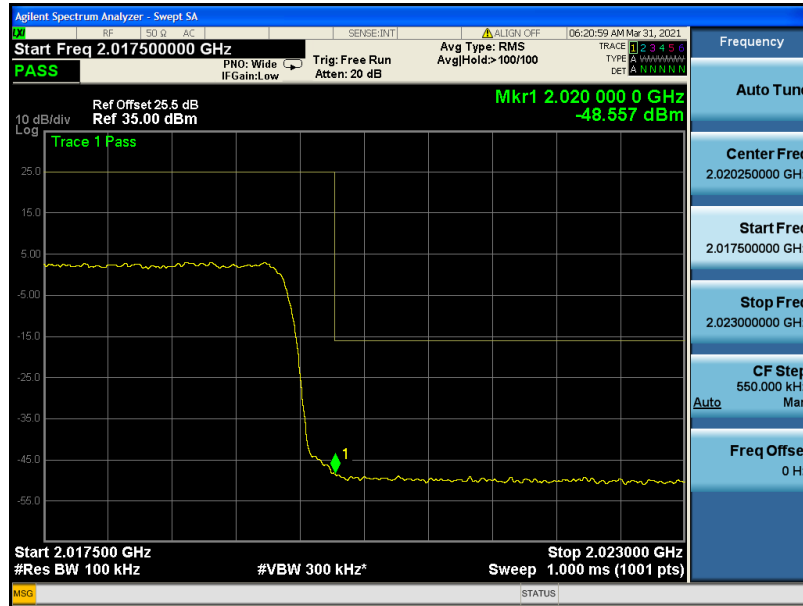
### DL\_1S\_B\_AWGN\_AGC+3\_Out-of-band emission



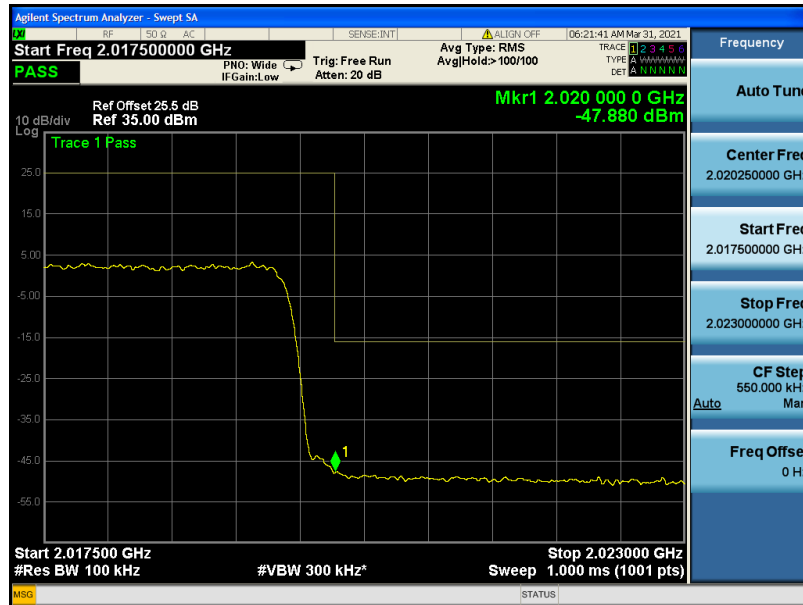
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### DL\_1S\_T\_AWGN\_Pre-AGC\_Out-of-band emission



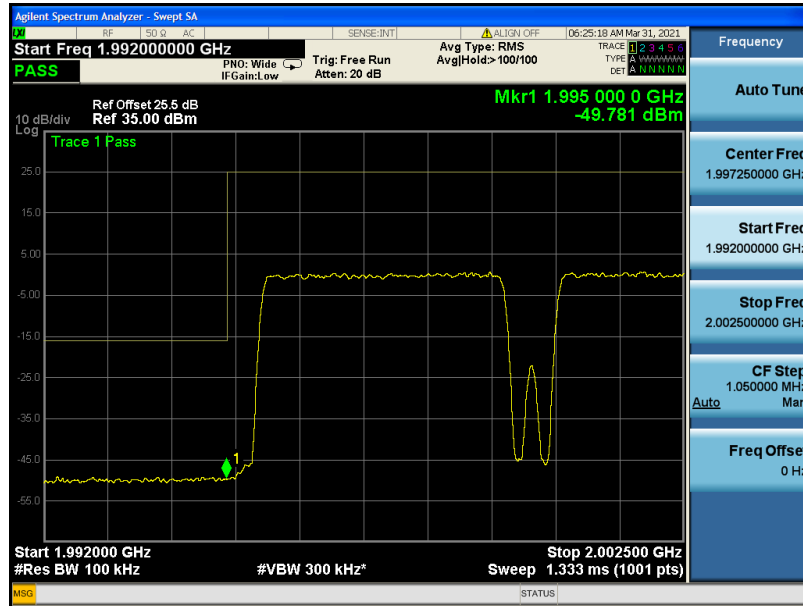
### DL\_1S\_T\_AWGN\_AGC+3\_Out-of-band emission



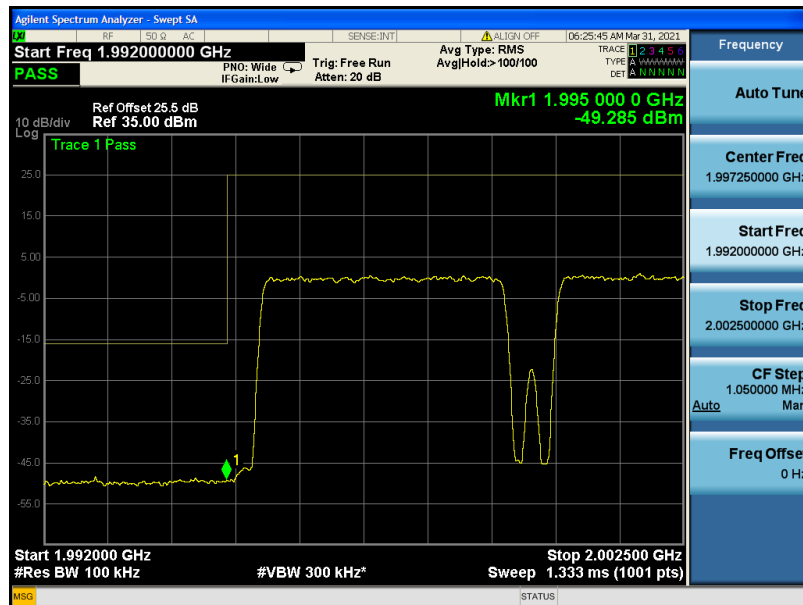
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### DL\_2S\_B\_AWGN\_Pre-AGC\_Out-of-band emission



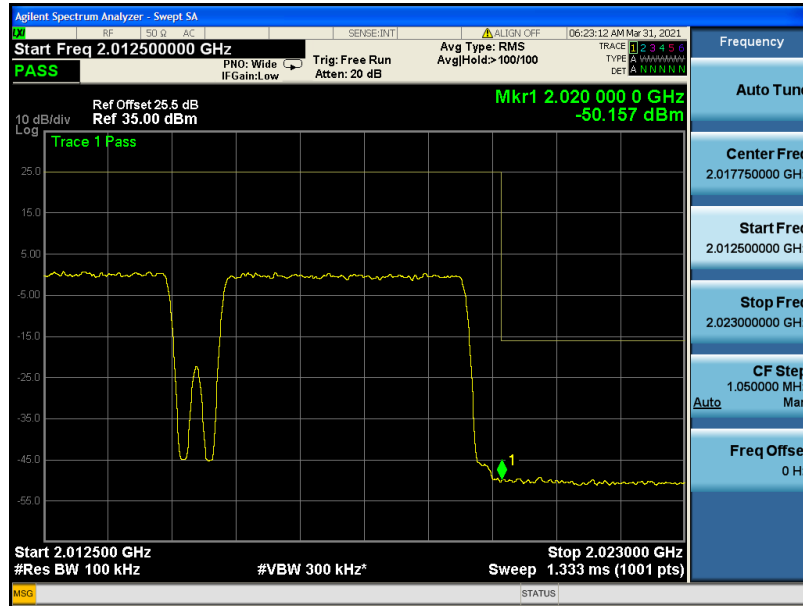
### DL\_2S\_B\_AWGN\_AGC+3\_Out-of-band emission



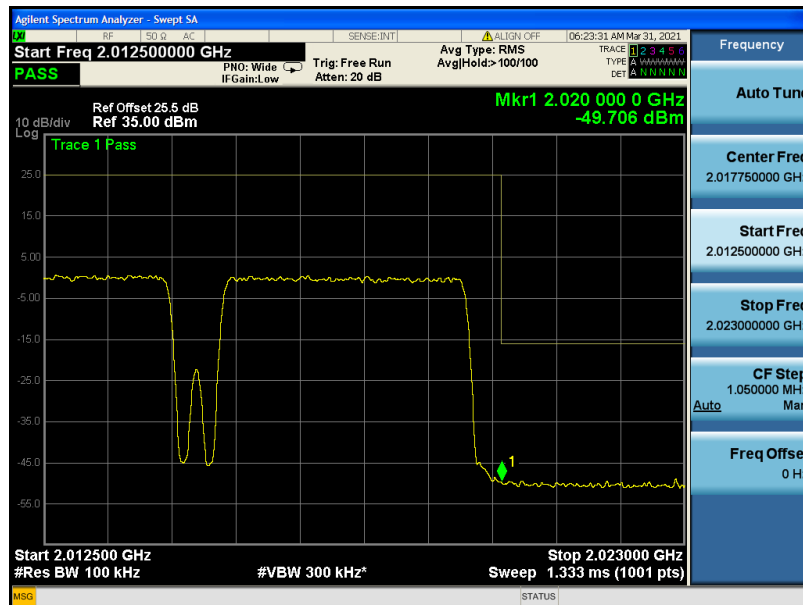
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### DL\_2S\_T\_AWGN\_Pre-AGC\_Out-of-band emission



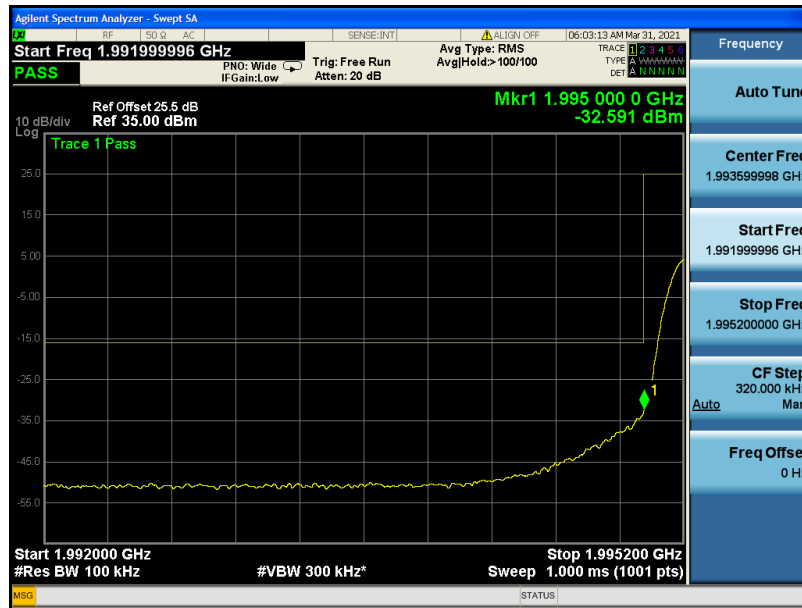
### DL\_2S\_T\_AWGN\_AGC+3\_Out-of-band emission



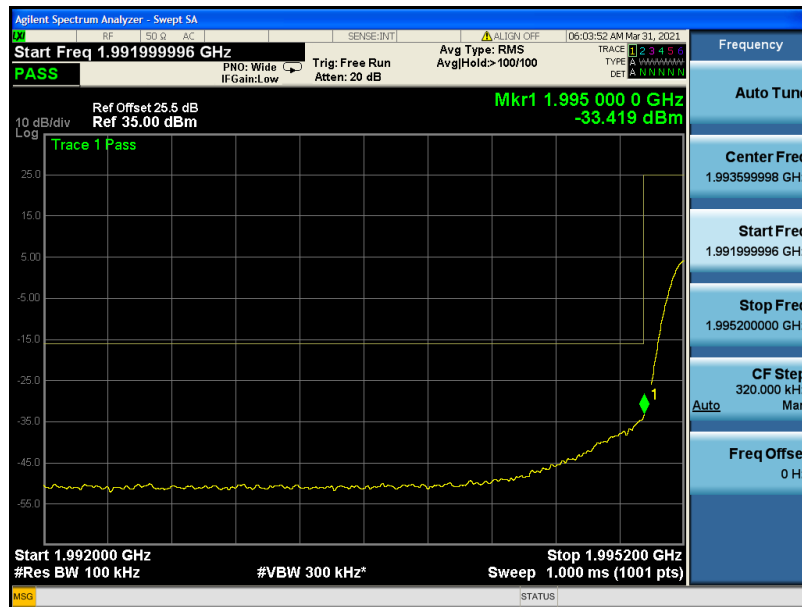
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### DL\_1S\_B\_GSM\_Pre-AGC\_Out-of-band emission



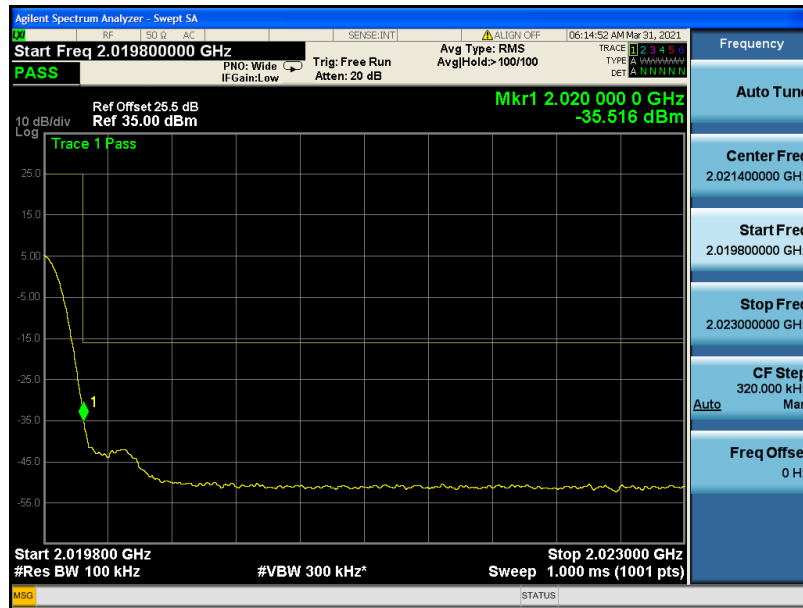
### DL\_1S\_B\_GSM\_AGC+3\_Out-of-band emission



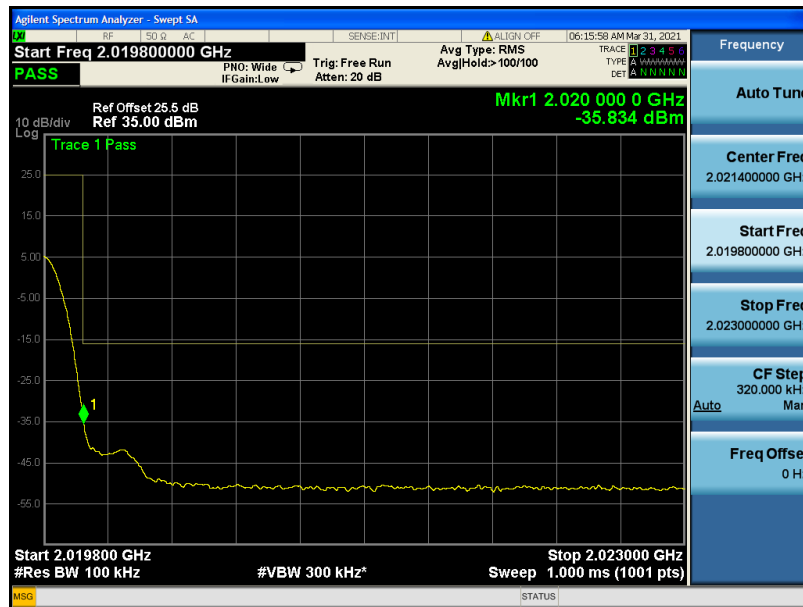
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### DL\_1S\_T\_GSM\_Pre-AGC\_Out-of-band emission



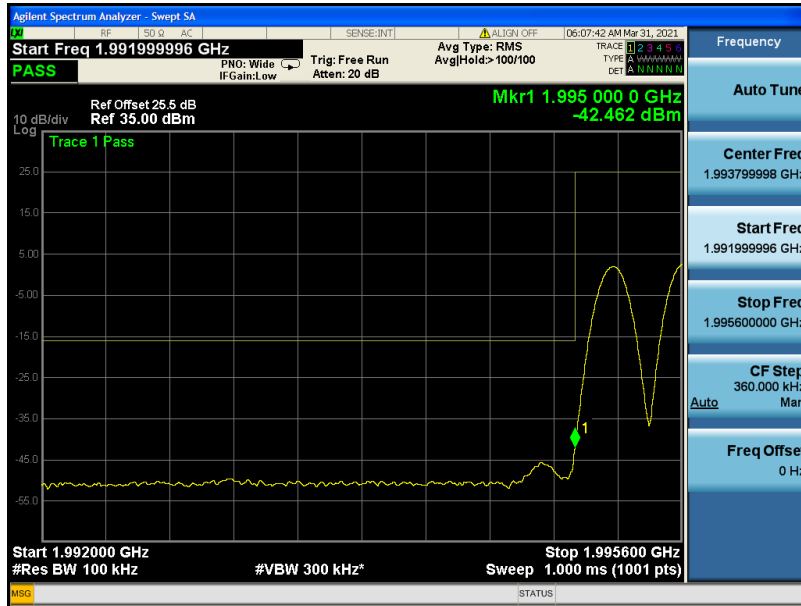
### DL\_1S\_T\_GSM\_AGC+3\_Out-of-band emission



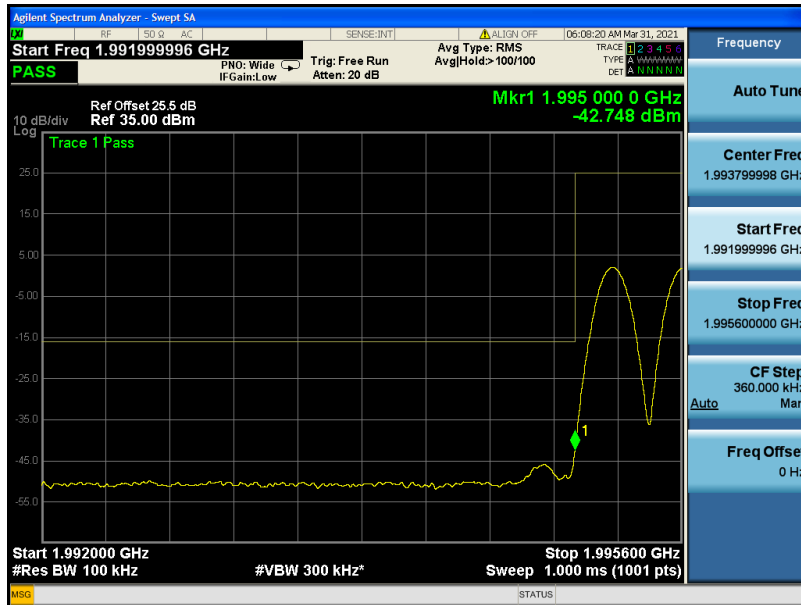
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DL\_2S\_B\_GSM\_Pre-AGC\_Out-of-band emission



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

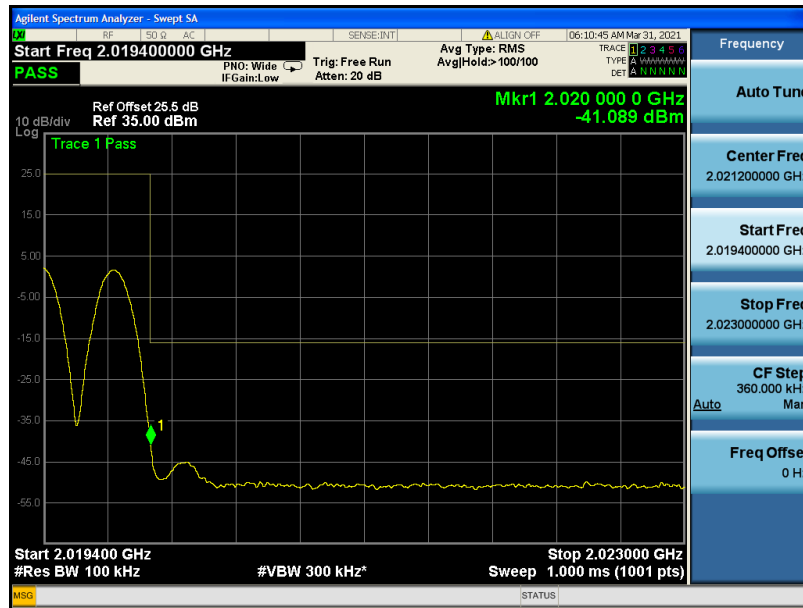


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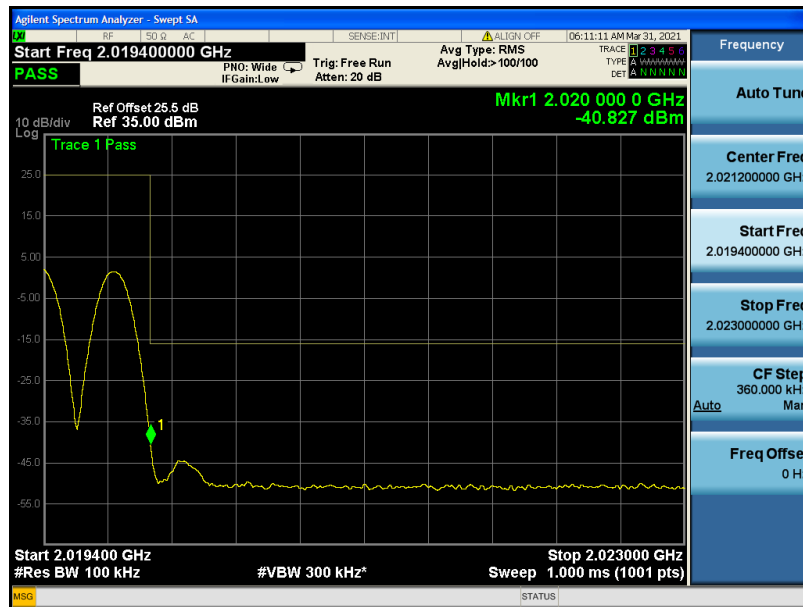
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### DL\_2S\_T\_GSM\_Pre-AGC\_Out-of-band emission



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



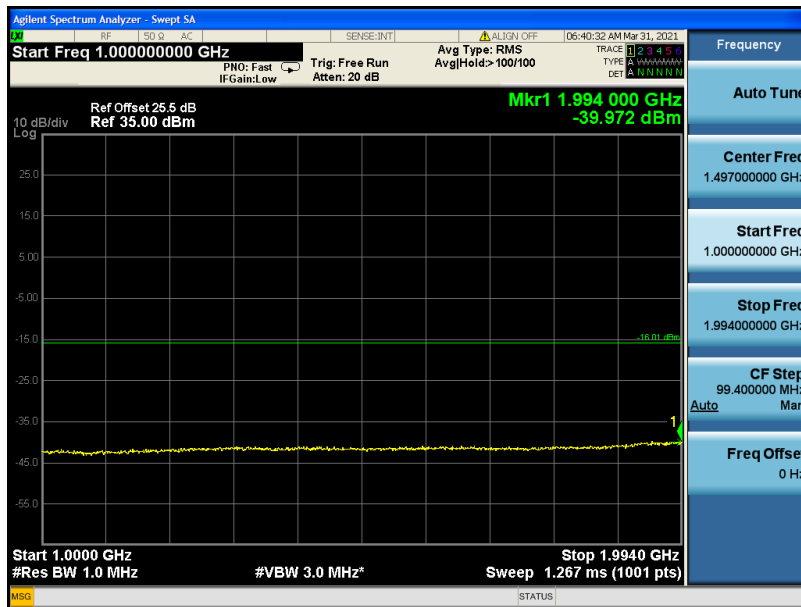
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DL\_1S\_B\_AWGN\_Pre-AGC\_Spurious emission 1



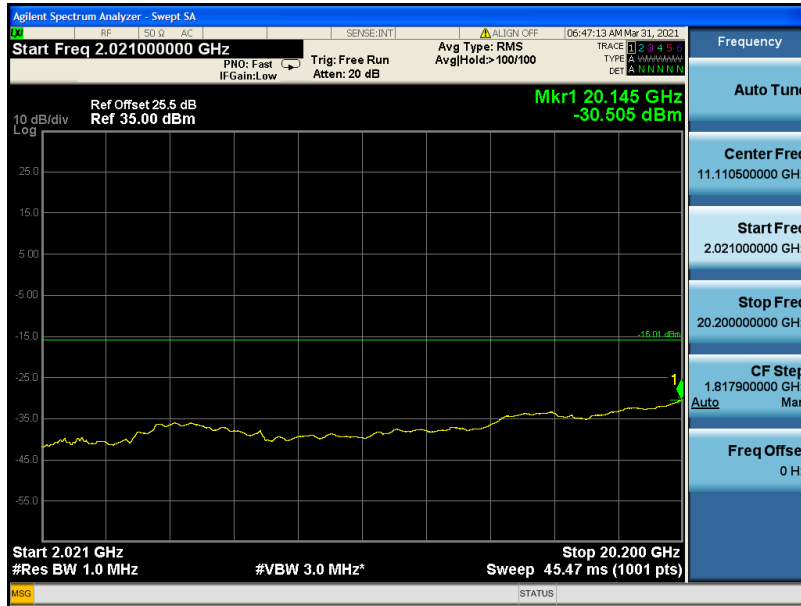
DL\_1S\_B\_AWGN\_Pre-AGC\_Spurious emission 2



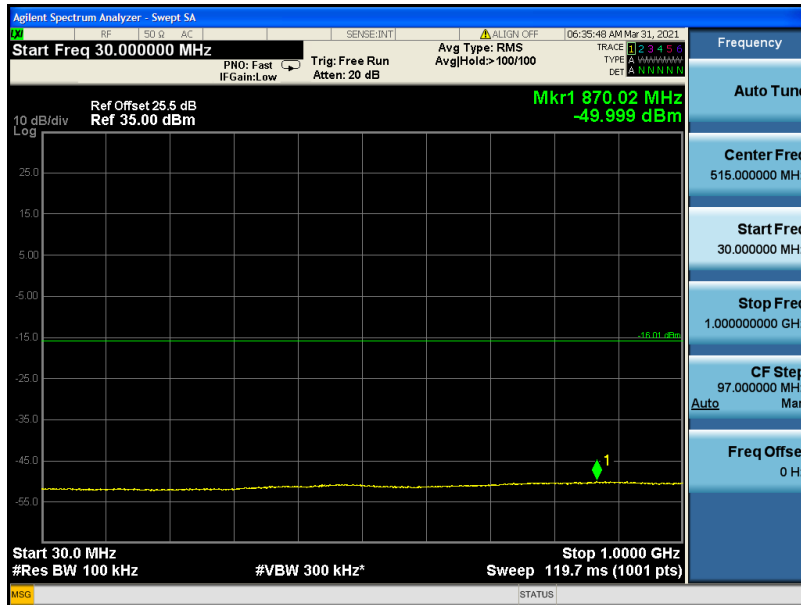
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DL\_1S\_B\_AWGN\_Pre-AGC\_Spurious emission 3



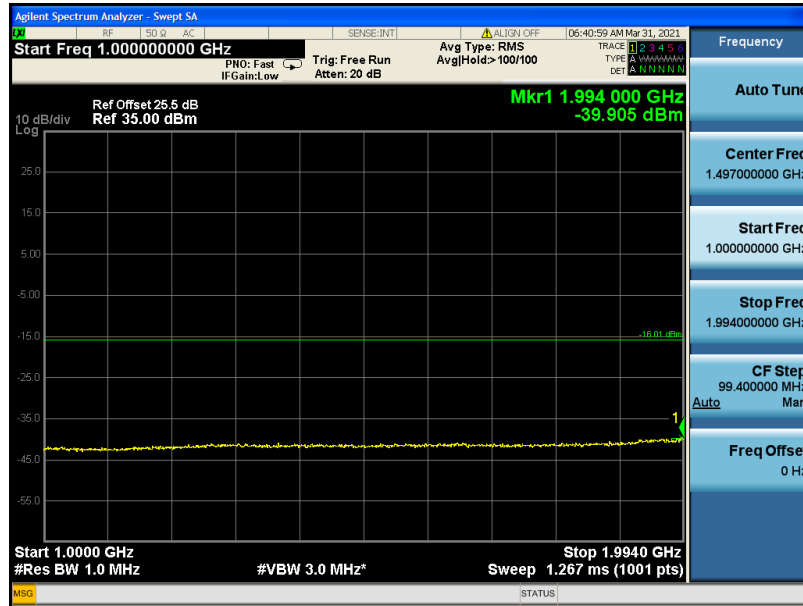
DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 1



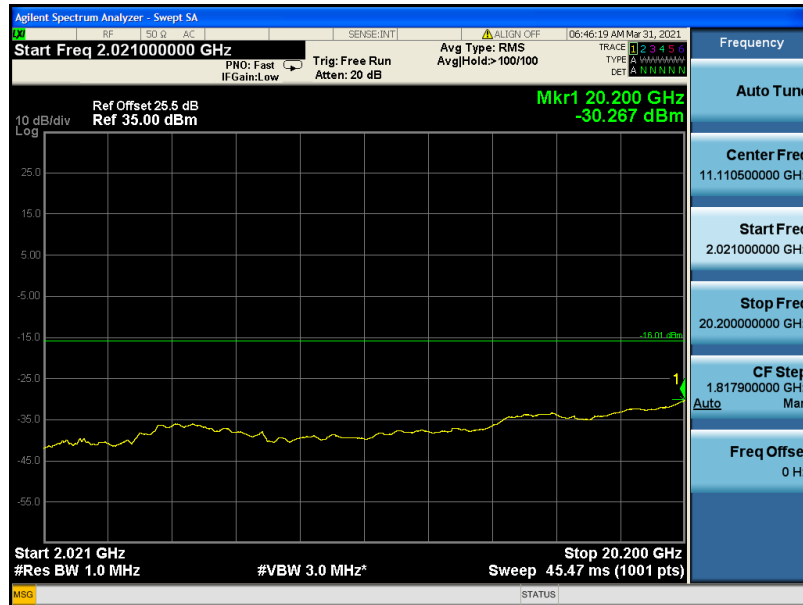
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### DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 2



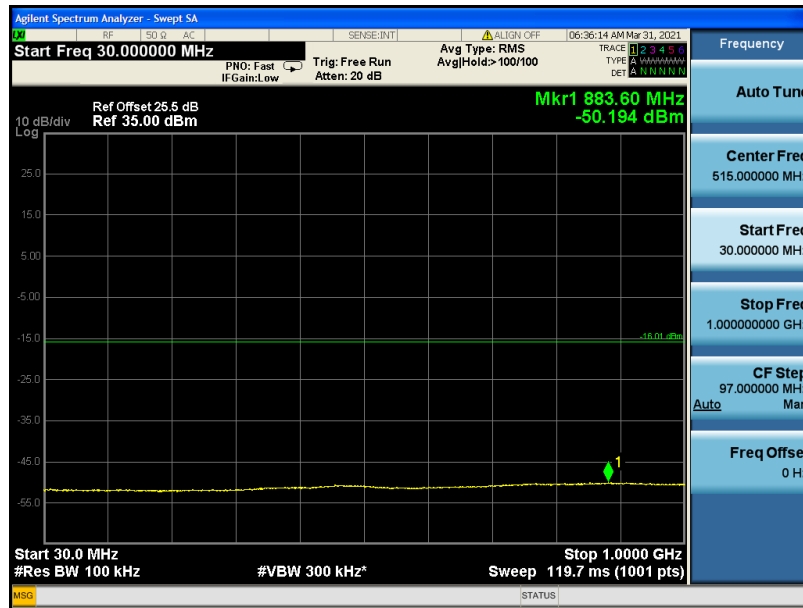
### DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 3



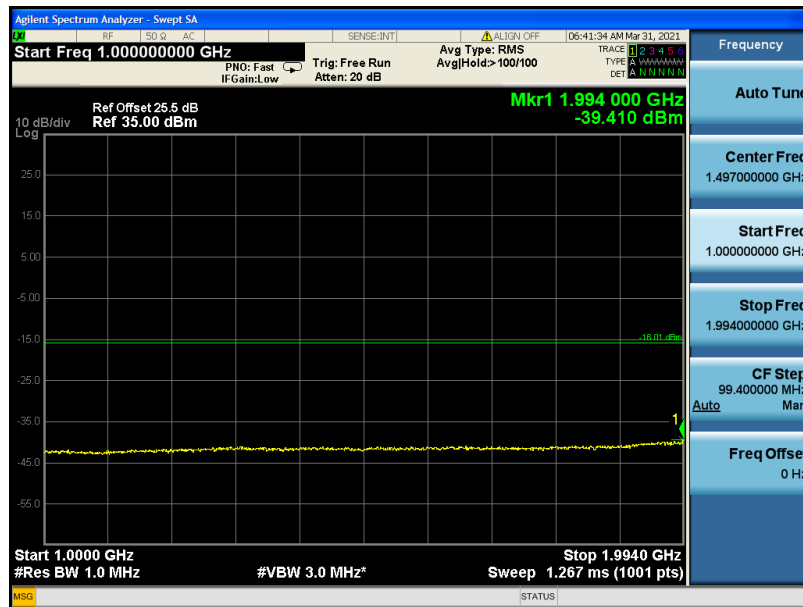
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DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 1



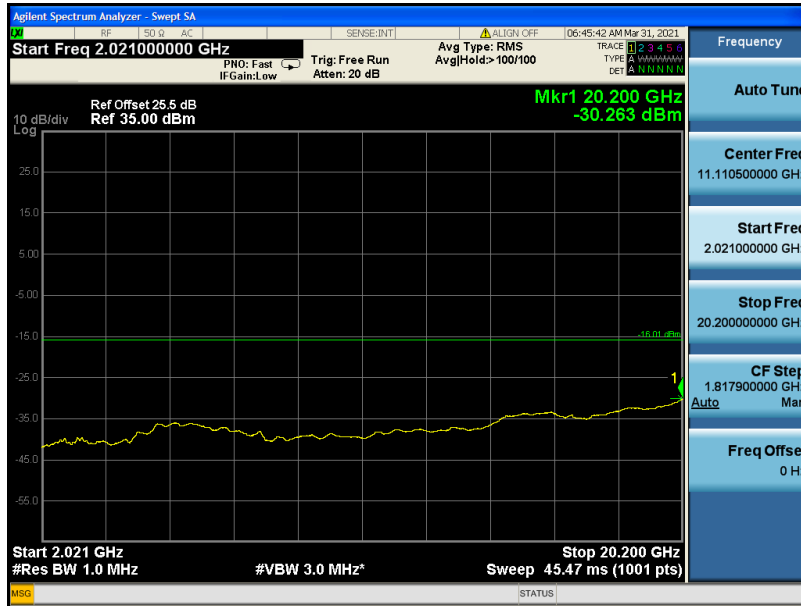
DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 2



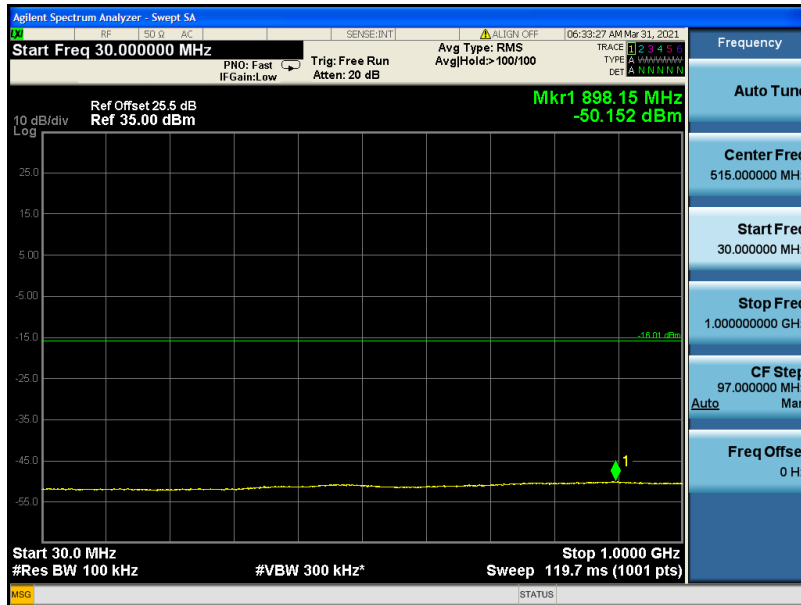
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DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 3



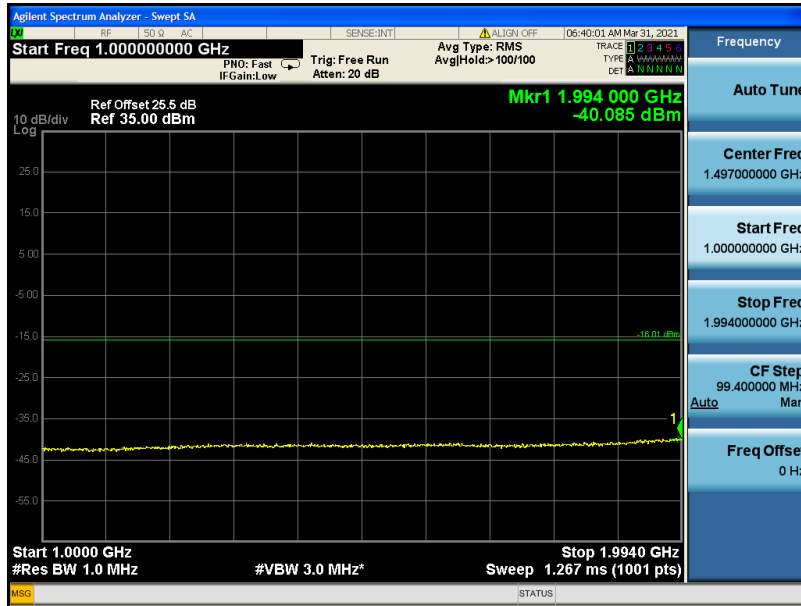
DL\_1S\_B\_GSM\_Pre-AGC\_Spurious emission 1



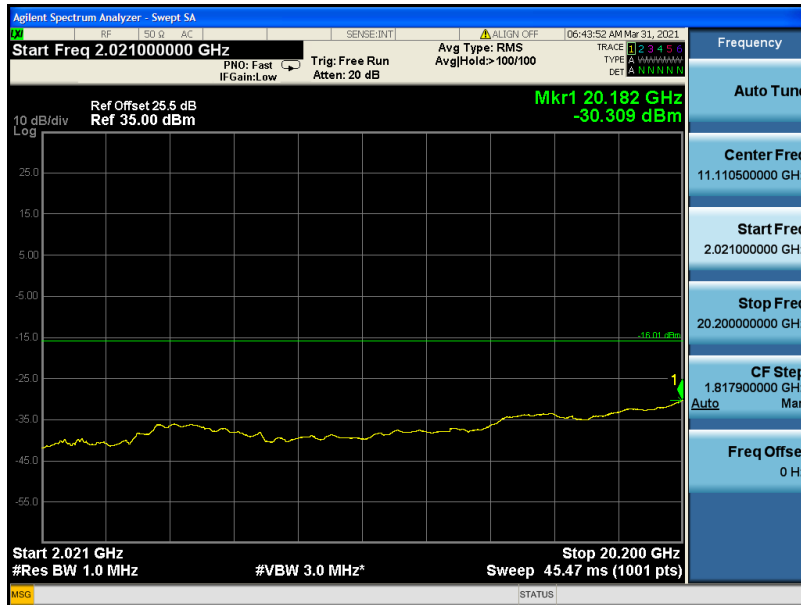
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DL\_1S\_B\_GSM\_Pre-AGC\_Spurious emission 2



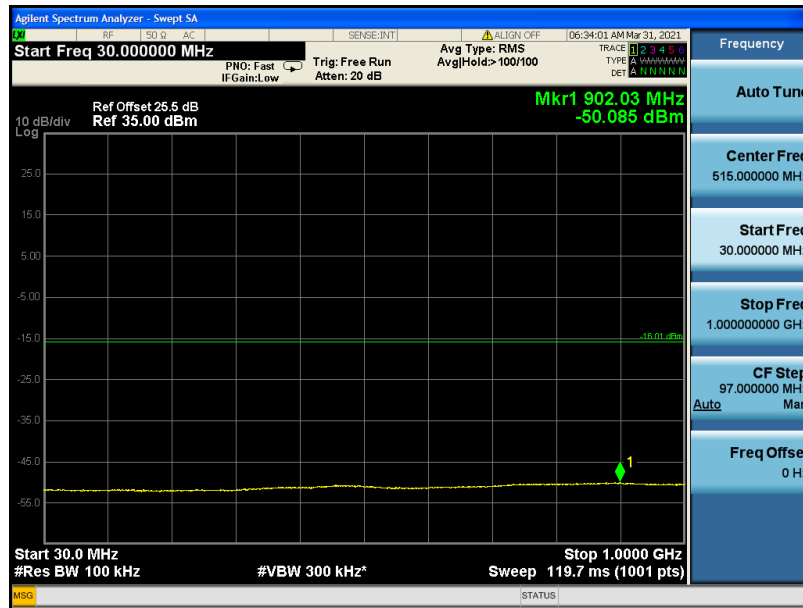
DL\_1S\_B\_GSM\_Pre-AGC\_Spurious emission 3



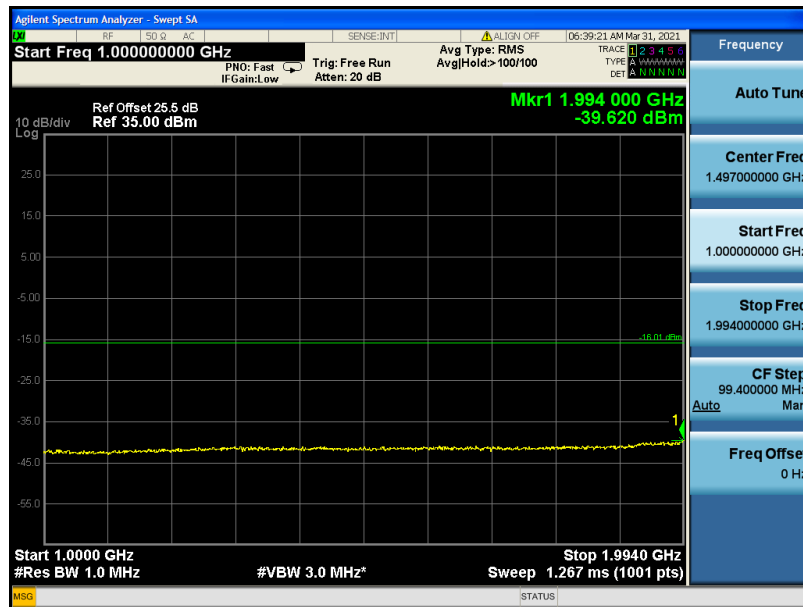
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### DL\_1S\_M\_GSM\_Pre-AGC\_Spurious emission 1



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

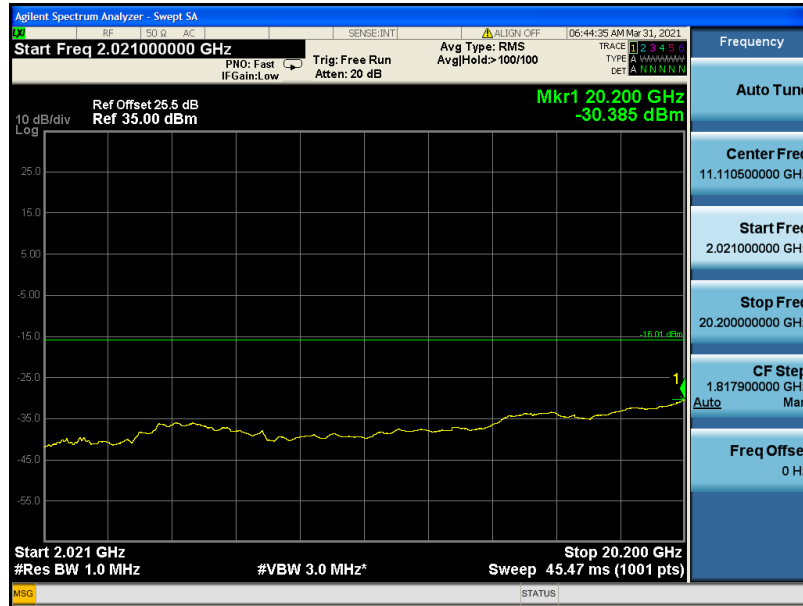


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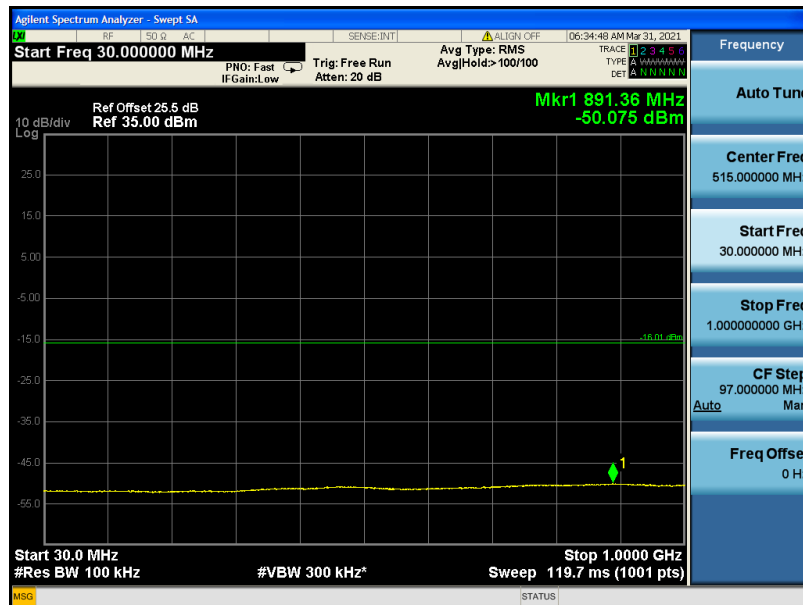
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### DL\_1S\_M\_GSM\_Pre-AGC\_Spurious emission 3



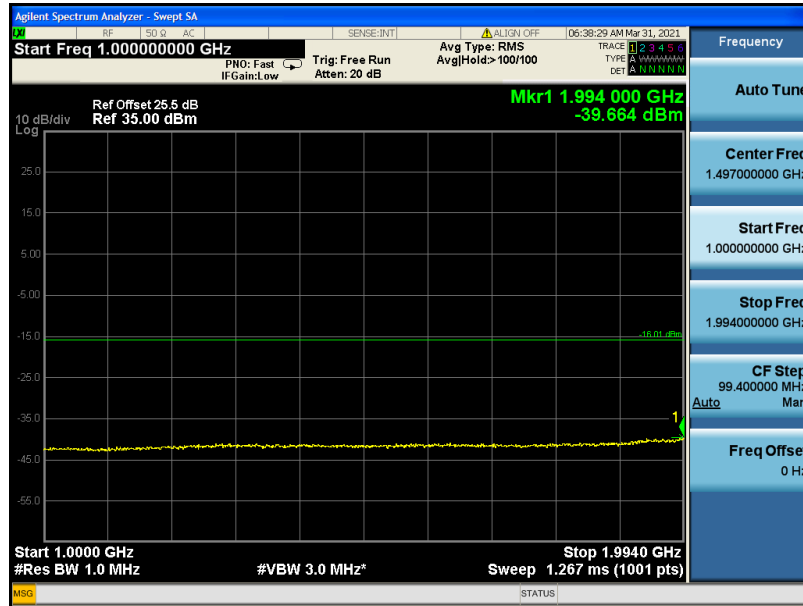
### DL\_1S\_T\_GSM\_Pre-AGC\_Spurious emission 1



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



DL\_1S\_T\_GSM\_Pre-AGC\_Spurious emission 3



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1.6 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.	Test data (MHz)	Tolerance (ppm)	Verdict
50	DL_1S_M_AWGN	2007.516276	-0.04	PASS
40		2007.516237	-0.06	PASS
30		2007.516398	0.02	PASS
20		2007.516354	Reference	PASS
10		2007.516163	-0.09	PASS
0		2007.516324	-0.01	PASS
-10		2007.516286	-0.03	PASS
-20		2007.516263	-0.05	PASS
-30		2007.516274	-0.04	PASS

Frequency stability vs voltage				
Voltage (V)	Test Conf.	Test data (MHz)	Tolerance (ppm)	Verdict
DC 40.8	DL_1S_M_AWGN	2007.516382	0.01	PASS
DC 48		2007.516354	Reference	PASS
DC 55.2		2007.516212	-0.07	PASS



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1.7 Radiated spurious emissions

Note: 1. The tested max conducted power for single antenna port is 20.26dBm, 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

Here,

$$P=20.26\text{dBm}= 0.1062\text{W}.$$

So the limit =

$$P(\text{dBm})- [43 + 10 \log(0.1062\text{W})] =-13\text{dBm}$$

2. Based on discussion in docket No. DA 13-2409 (section 26 & 47) for operation in 2000-2020MHz in downlink, only 27.53(h)(1) and 27.53(h)(3) apply.

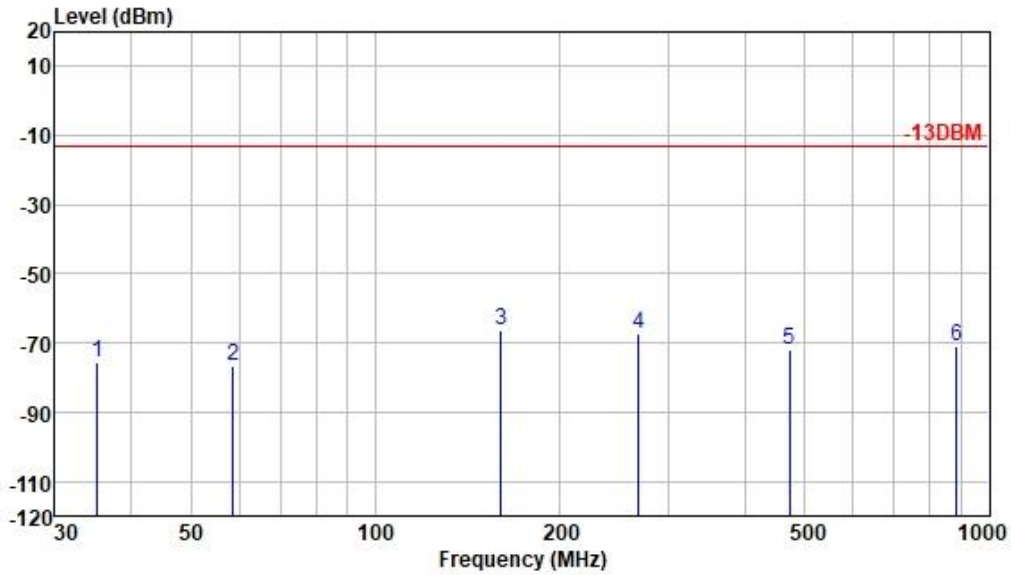
3. The radiated test performed at bottom / middle / top channel, the data with more than 20db margin, therefore, only the worst-case middle channel test data was recorded in the report.

4. The disturbance 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



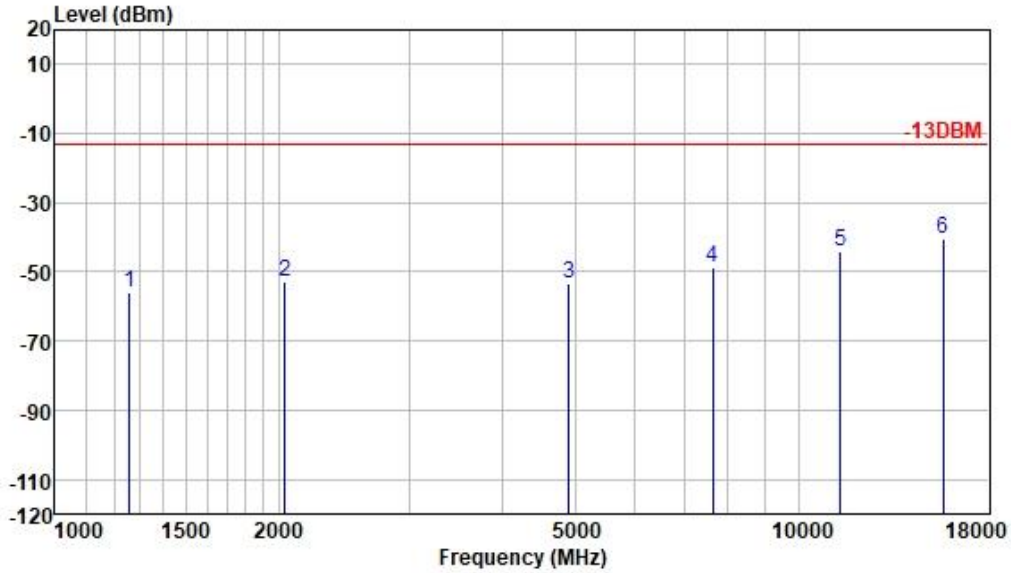
	Freq	Read Level	Correction Factor	Limit Level	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dB	
1	35.13	-78.35	2.85	-75.50	-12.99	HORIZONTAL
2	58.61	-74.24	-2.41	-76.65	-12.99	HORIZONTAL
3	160.35	-60.00	-6.44	-66.44	-12.99	HORIZONTAL
4	268.49	-63.97	-3.18	-67.15	-12.99	HORIZONTAL
5	472.18	-72.30	0.33	-71.97	-12.99	HORIZONTAL
6	884.50	-79.54	8.60	-70.94	-12.99	HORIZONTAL



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



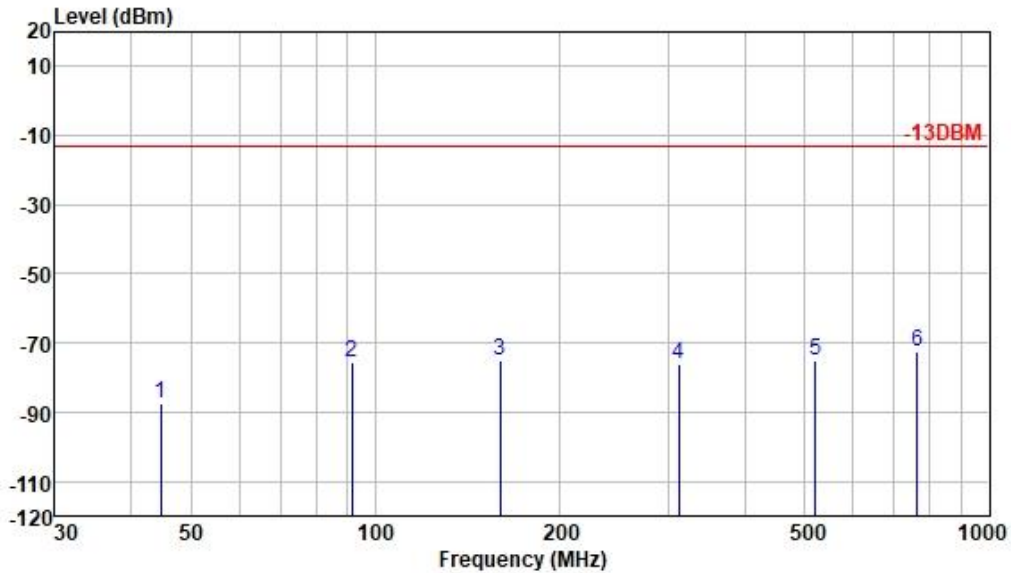
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1260.15	-60.19	4.01	-56.18	-12.99	-43.19	HORIZONTAL
2	2036.09	-62.55	9.79	-52.76	-12.99	-39.77	HORIZONTAL
3	4902.30	-62.95	9.76	-53.19	-12.99	-40.20	HORIZONTAL
4	7650.89	-63.66	15.12	-48.54	-12.99	-35.55	HORIZONTAL
5	11368.00	-66.10	21.79	-44.31	-12.99	-31.32	HORIZONTAL
6	15622.99	-62.11	21.88	-40.23	-12.99	-27.24	HORIZONTAL



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



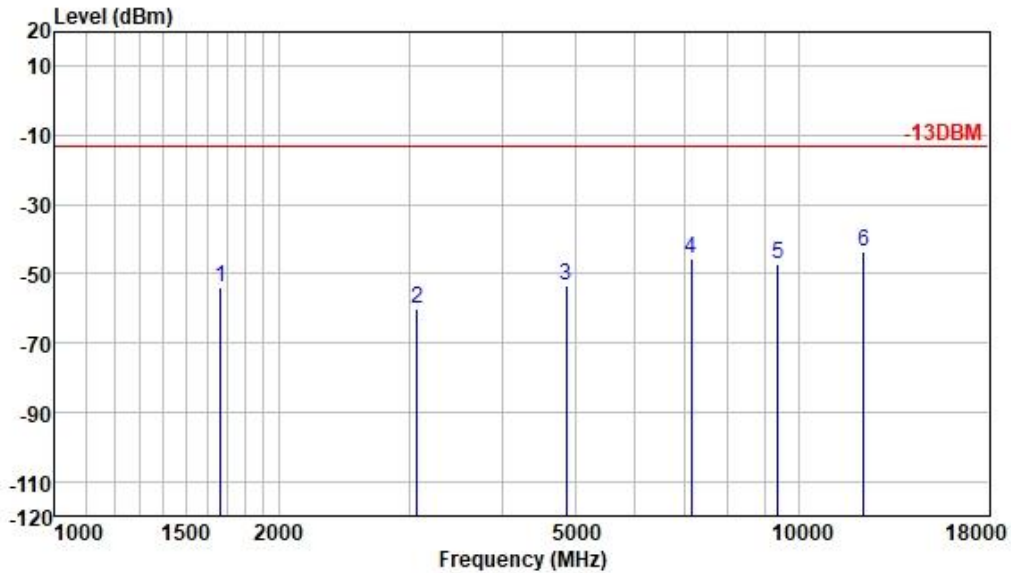
	Freq	Read Level	Correction Factor	Limit Level	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dB	
1	44.59	-75.02	-12.53	-87.55	-12.99	VERTICAL
2	91.49	-68.96	-6.87	-75.83	-12.99	VERTICAL
3	159.78	-71.14	-3.94	-75.08	-12.99	VERTICAL
4	312.18	-73.37	-2.61	-75.98	-12.99	VERTICAL
5	520.89	-76.19	1.12	-75.07	-12.99	VERTICAL
6	763.38	-78.98	6.73	-72.25	-12.99	VERTICAL



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



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1667.95	-59.27	5.39	-53.88	-12.99	-40.89	VERTICAL
2	3069.35	-62.86	2.83	-60.03	-12.99	-47.04	VERTICAL
3	4859.98	-62.49	9.30	-53.19	-12.99	-40.20	VERTICAL
4	7158.81	-65.01	19.35	-45.66	-12.99	-32.67	VERTICAL
5	9366.58	-64.60	17.32	-47.28	-12.99	-34.29	VERTICAL
6	12219.85	-66.06	22.43	-43.63	-12.99	-30.64	VERTICAL



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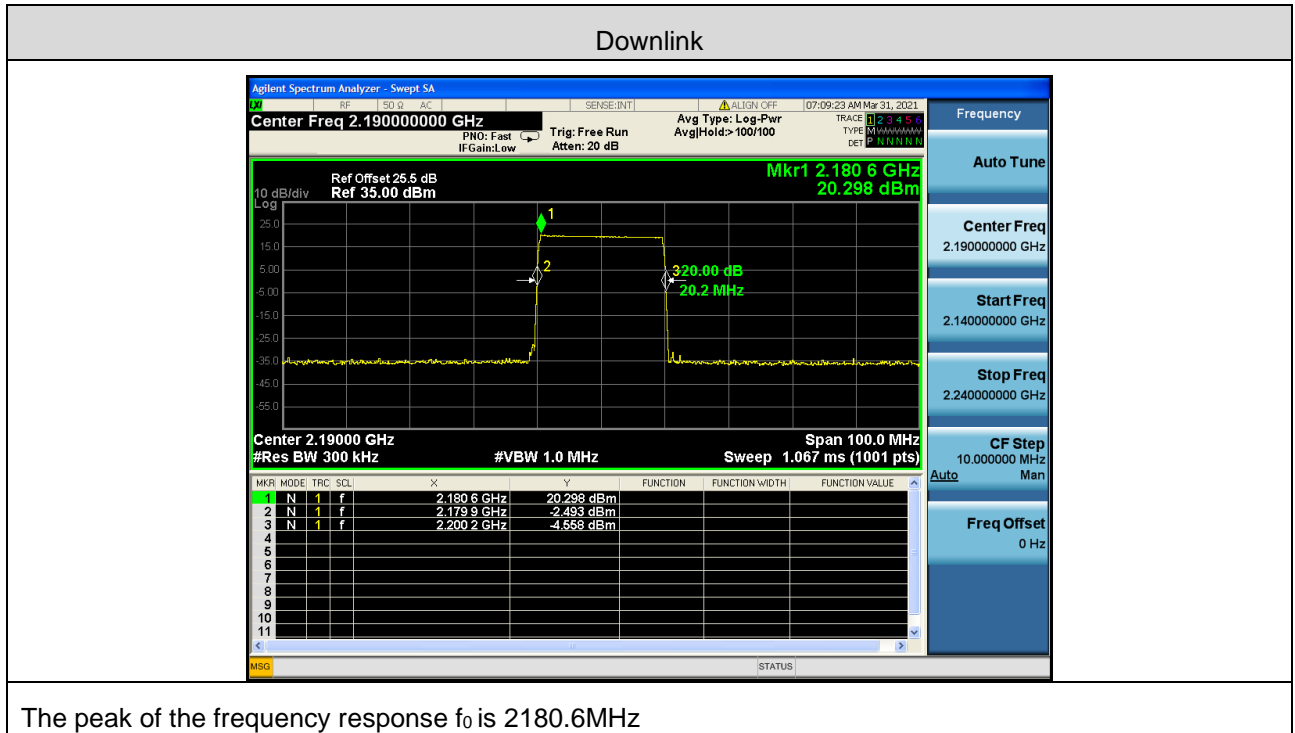


### 2 AWS-4 (only for downlink: 2180-2200MHz)

#### 2.1 AGC threshold level

Test Conf.	AGC Threshold level
DL_1S_M_AWGN	0.00dBm
DL_1S_M_GSM	0.20dBm

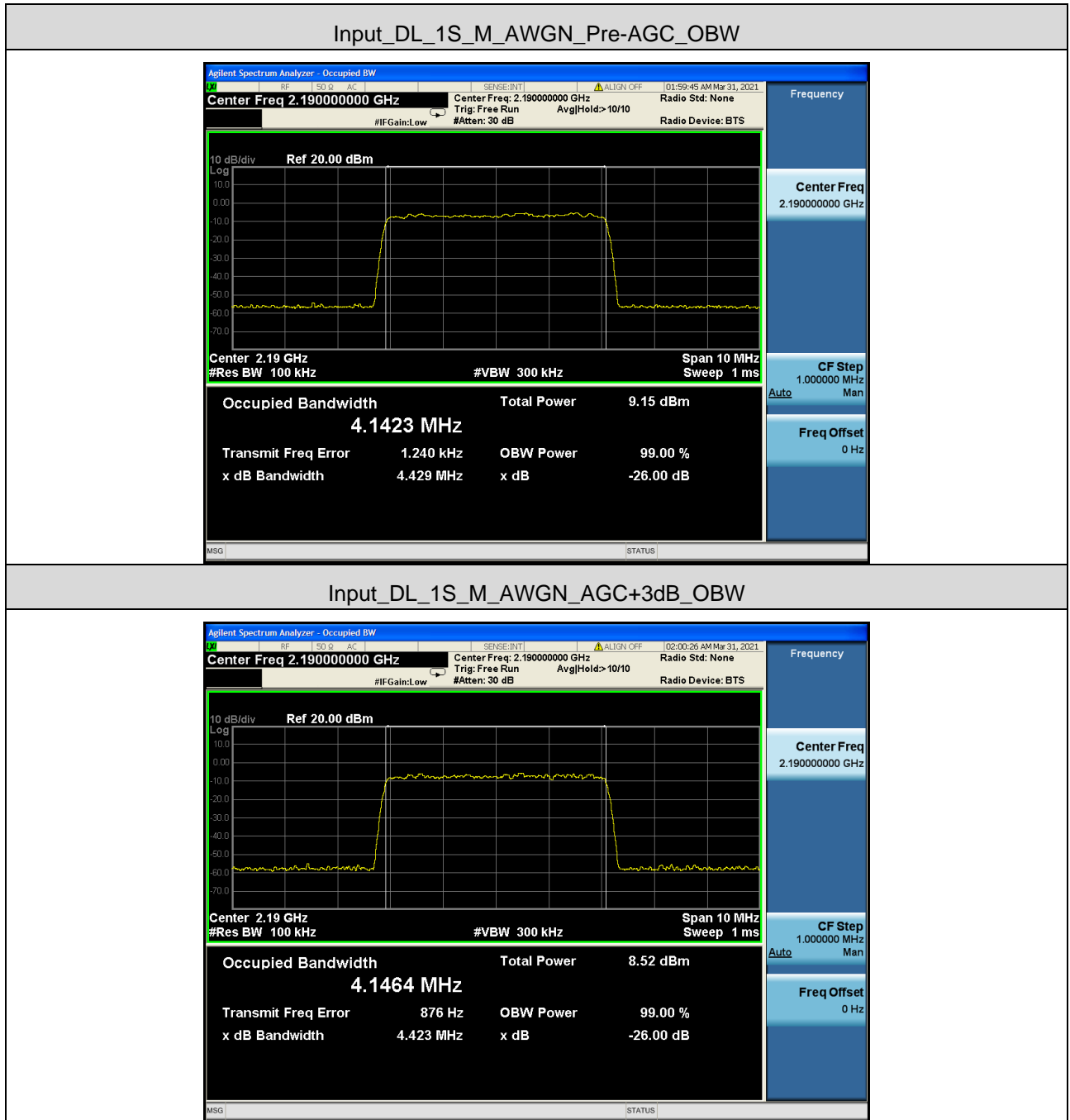
#### 2.2 Out-of-band rejection



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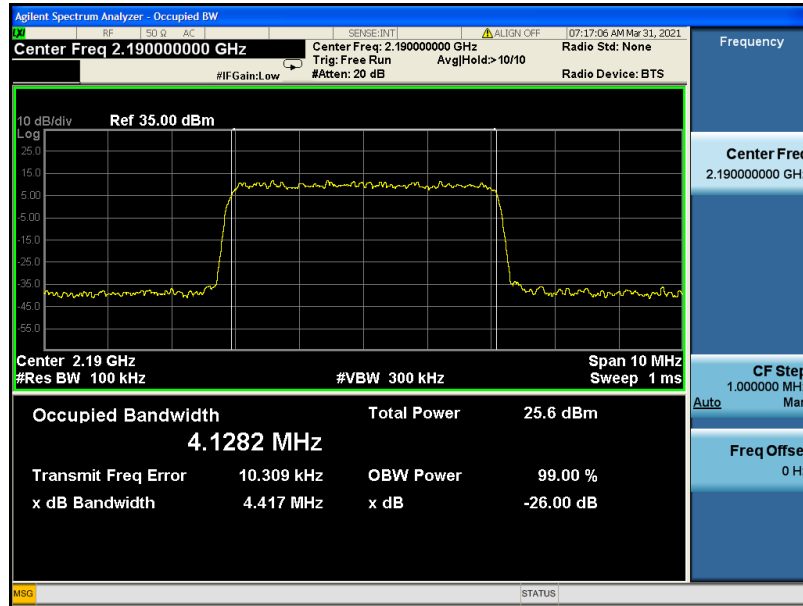
### 2.3 Input-versus-output signal comparison



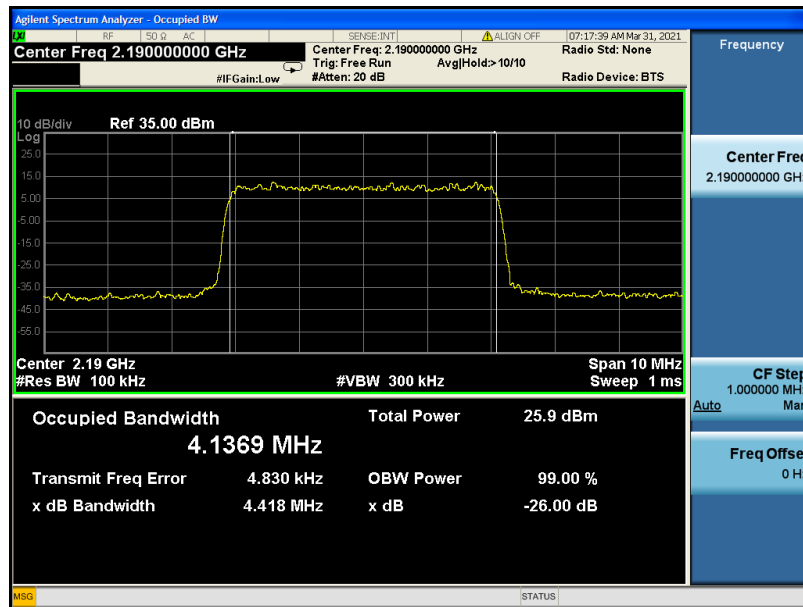
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Output\_DL\_1S\_M\_AWGN\_Pre-AGC\_OBW



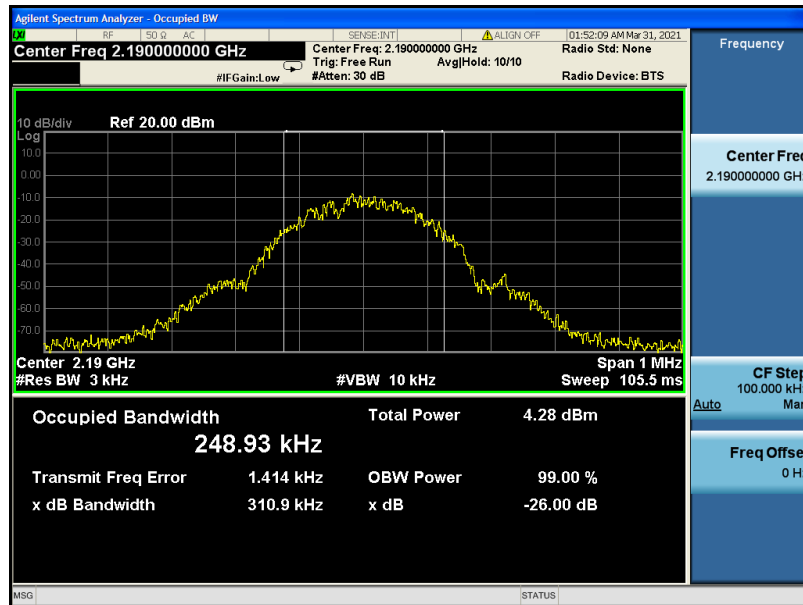
Output\_DL\_1S\_M\_AWGN\_AGC+3dB\_OBW



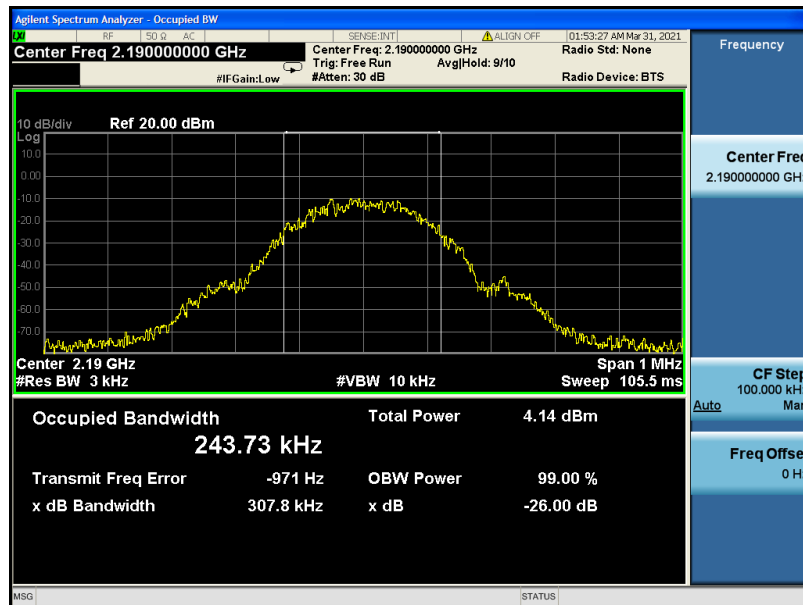
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### Input\_DL\_1S\_M\_GSM\_Pre-AGC\_OBW



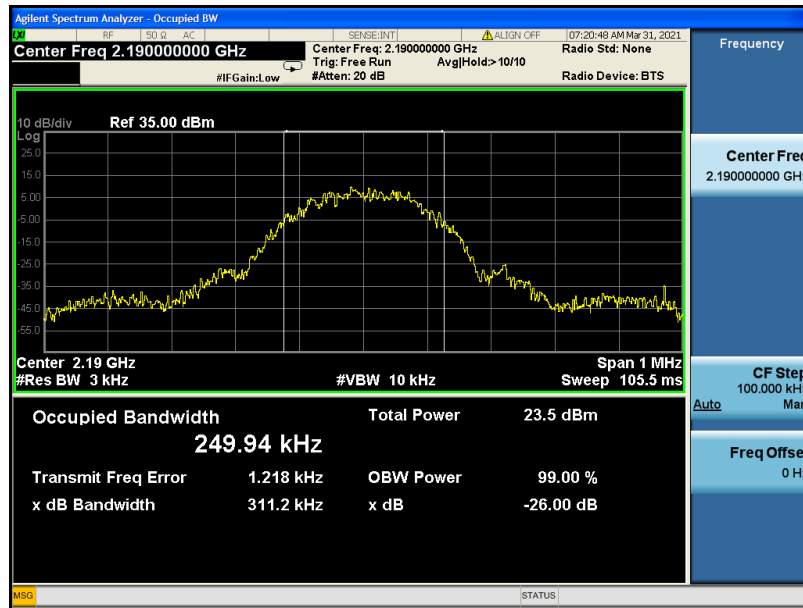
### Input\_DL\_1S\_M\_GSM\_AGC+3dB\_OBW



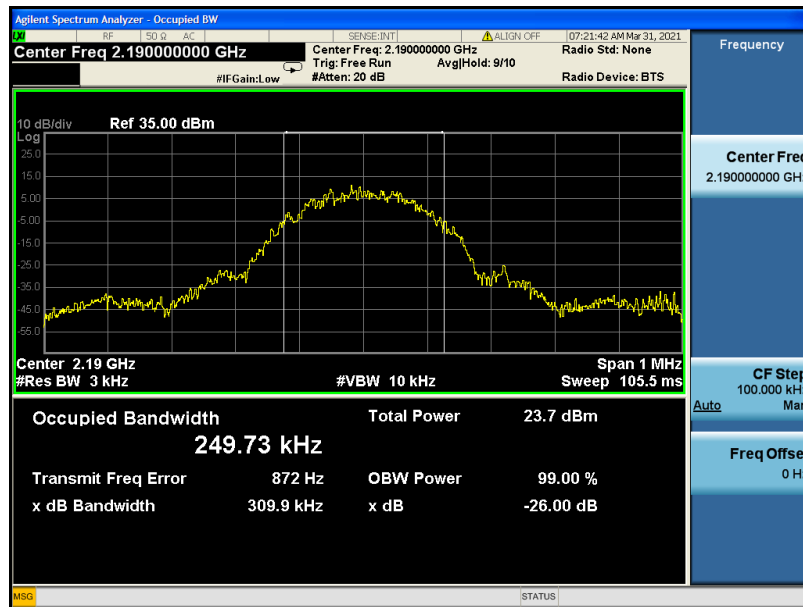
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Output\_DL\_1S\_M\_GSM\_Pre-AGC\_OBW



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



Remark:

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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2.4 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	2180.6	Pre-AGC	-0.10	20.34	20.44	PASS
		AGC+3dB	2.90	20.15	/	PASS
DL_1S_GSM	2180.6	Pre-AGC	-0.30	20.31	20.61	PASS
		AGC+3dB	2.70	20.26	/	PASS

Remark:

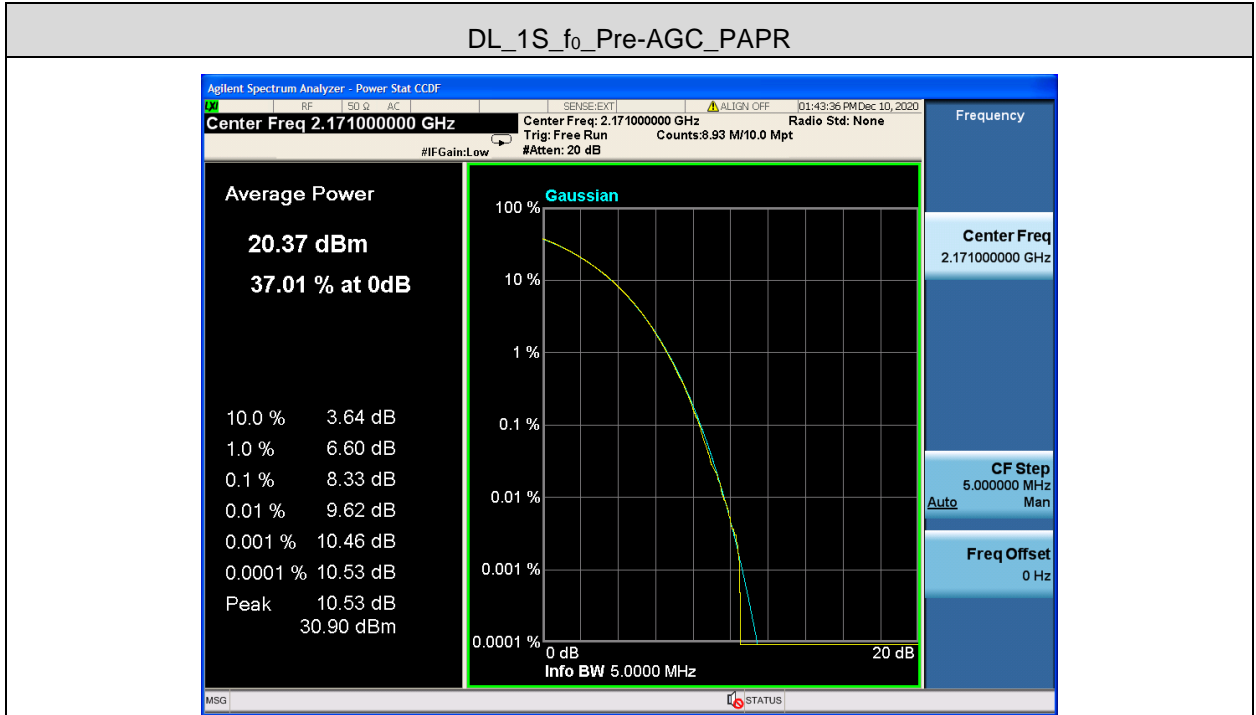
According to the declaration from the applicant, the antenna gain should not exceed 12.5dBi, the Directional gain = G(ANT) + 10 log (NANT) dBi = 12.5dBi+10log (2) dBi= 15.5dBi.

The total maximum EIRP for the EUT is (20.34dBm+20.34dBm) +15.5dBi=38.92dBm (7.80W) which don't exceed the required EIRP limit (1640W/MHz)



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Test Conf.	Test Freq. f <sub>0</sub> (MHz)	Signal Level	PAPR (dB)	Limit (dB)	Verdict
DL_1S_AWGN	2180.6	Pre-AGC	8.3	13	PASS



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

Note: The tested max conducted power for single antenna port is 20.34dBm, 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

Here,

$$P=20.34\text{dBm}= 0.1081\text{W}.$$

So the limit =

$$P(\text{dBm})- [43 + 10 \log(0.1081\text{W})] =-13\text{dBm}$$

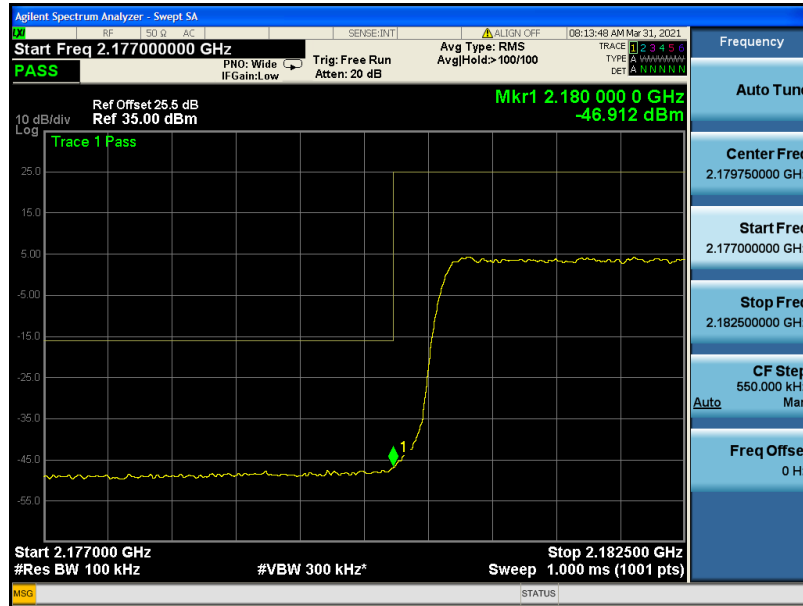
The EUT supports 2x2 MIMO and the emissions were measured at one of output port, so the limit line was set to -16.01dBm in following test plots in order to determine the test result conveniently.



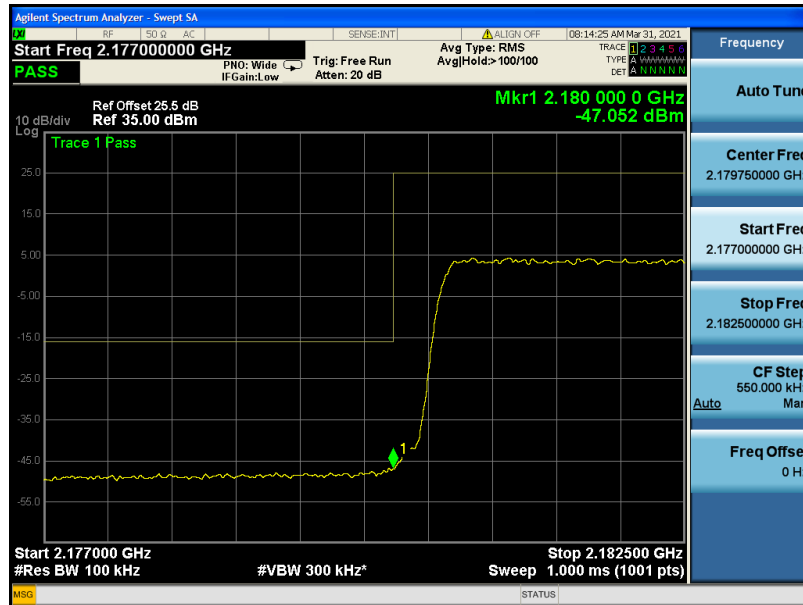
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### DL\_1S\_B\_AWGN\_Pre-AGC\_Out-of-band emission



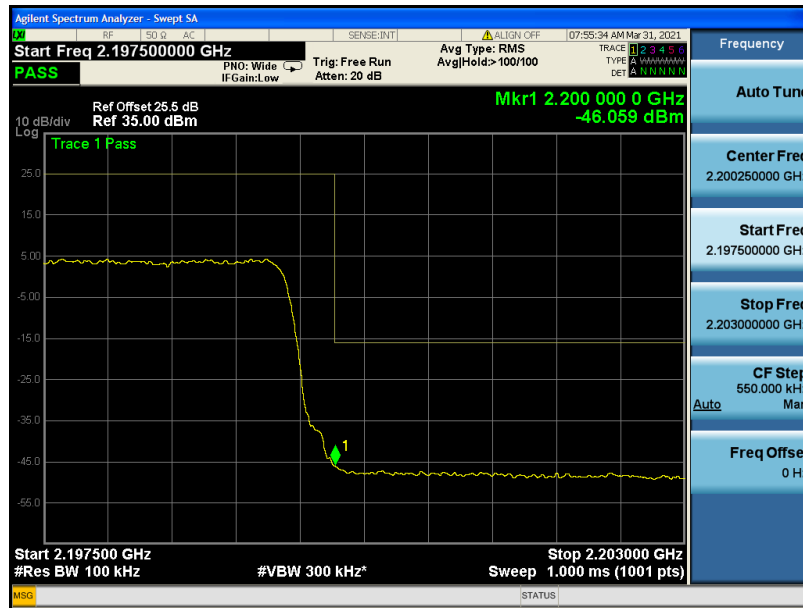
### DL\_1S\_B\_AWGN\_AGC+3\_Out-of-band emission



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



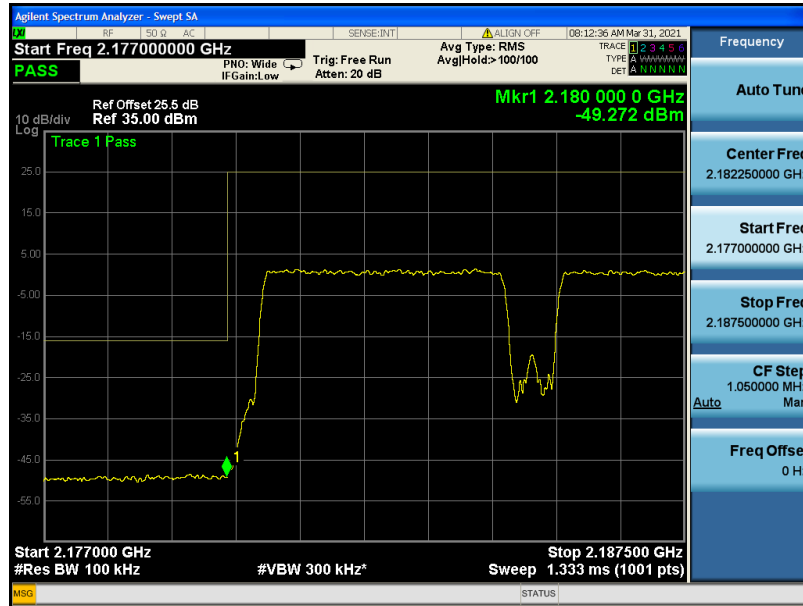
### DL\_1S\_T\_AWGN\_AGC+3\_Out-of-band emission



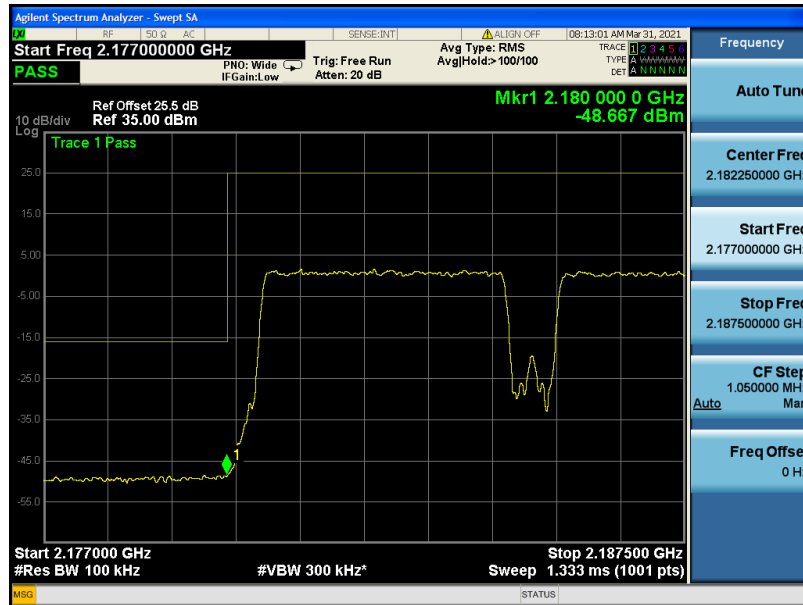
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### DL\_2S\_B\_AWGN\_Pre-AGC\_Out-of-band emission



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



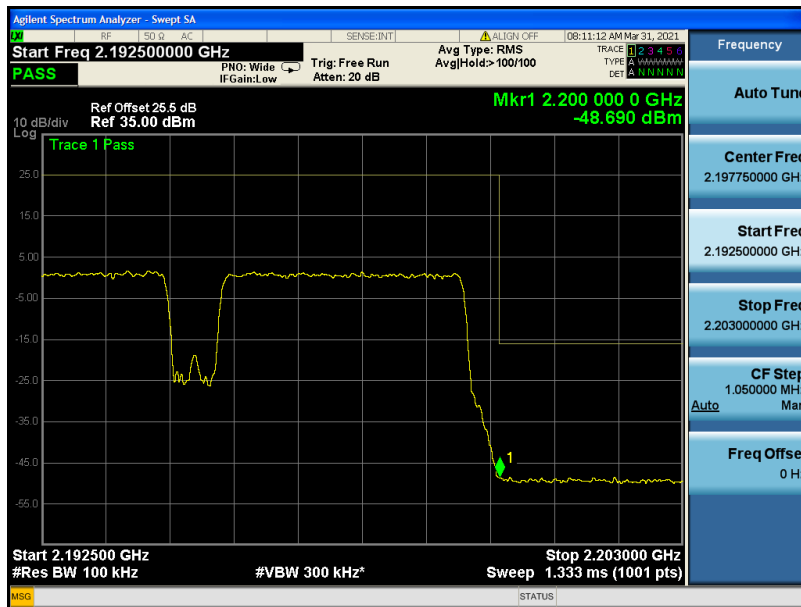
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DL\_2S\_T\_AWGN\_Pre-AGC\_Out-of-band emission



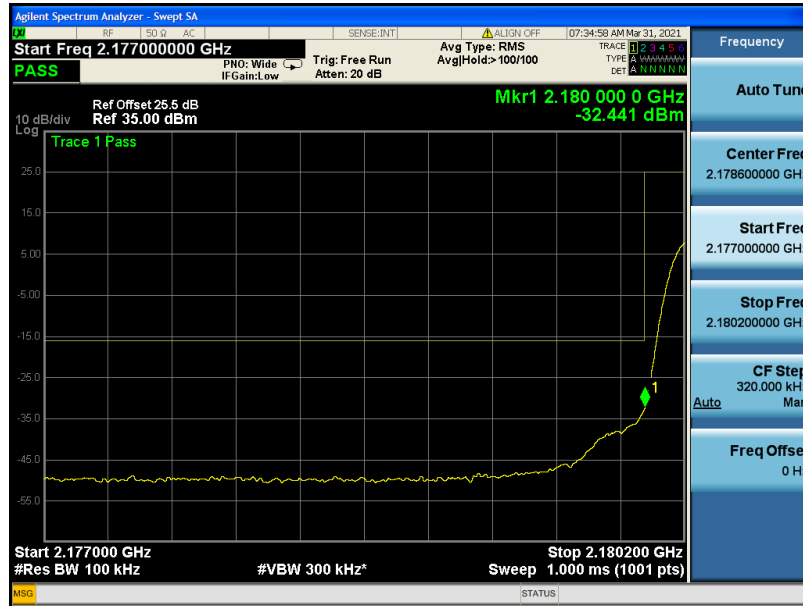
DL\_2S\_T\_AWGN\_AGC+3\_Out-of-band emission



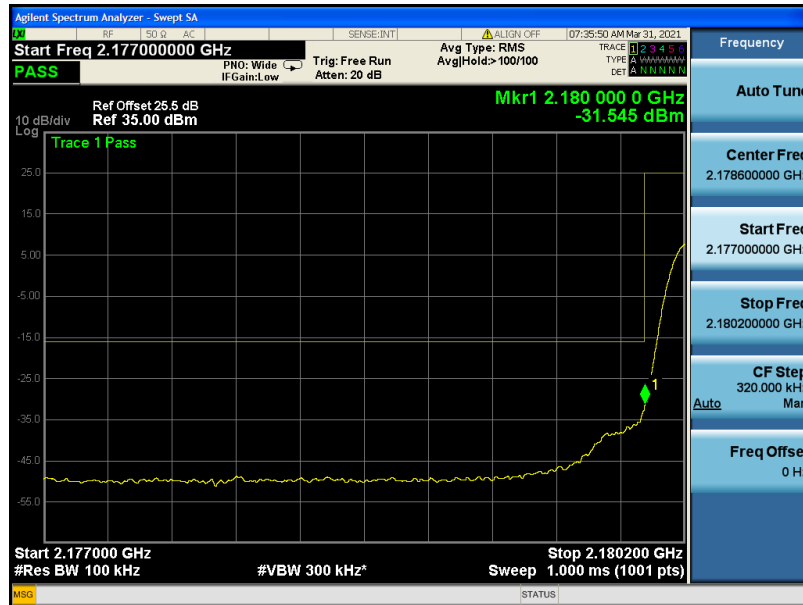
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### DL\_1S\_B\_GSM\_Pre-AGC\_Out-of-band emission



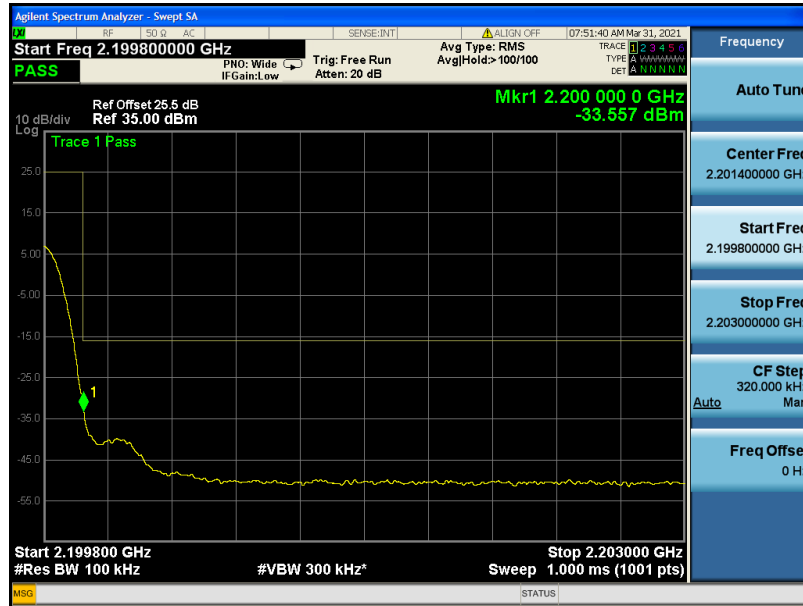
### DL\_1S\_B\_GSM\_AGC+3\_Out-of-band emission



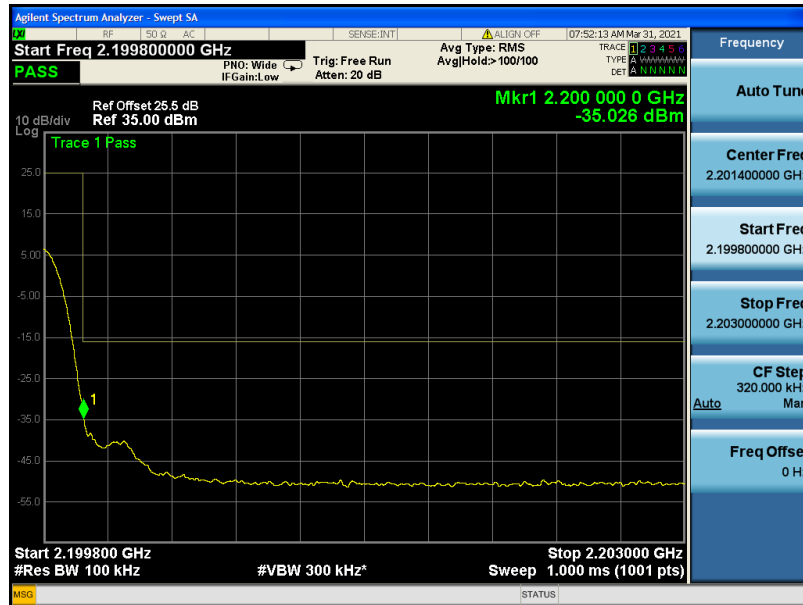
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### DL\_1S\_T\_GSM\_Pre-AGC\_Out-of-band emission



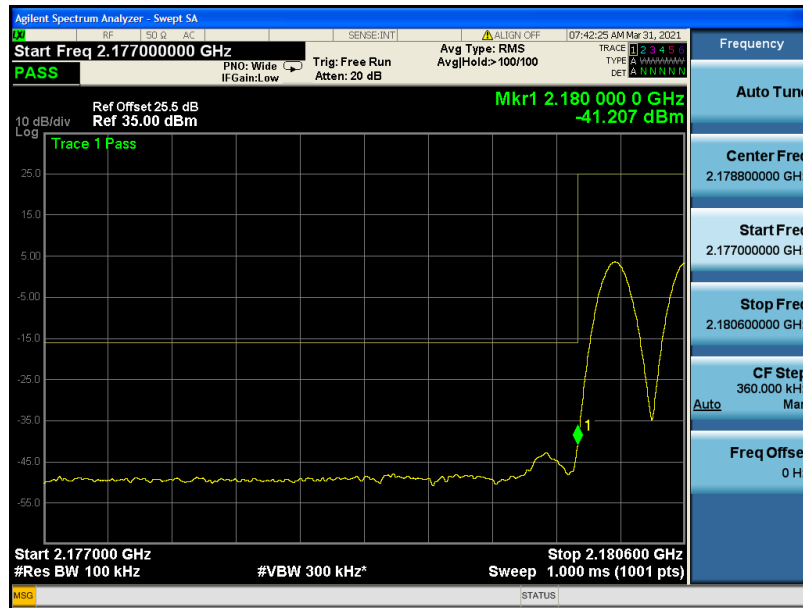
### DL\_1S\_T\_GSM\_AGC+3\_Out-of-band emission



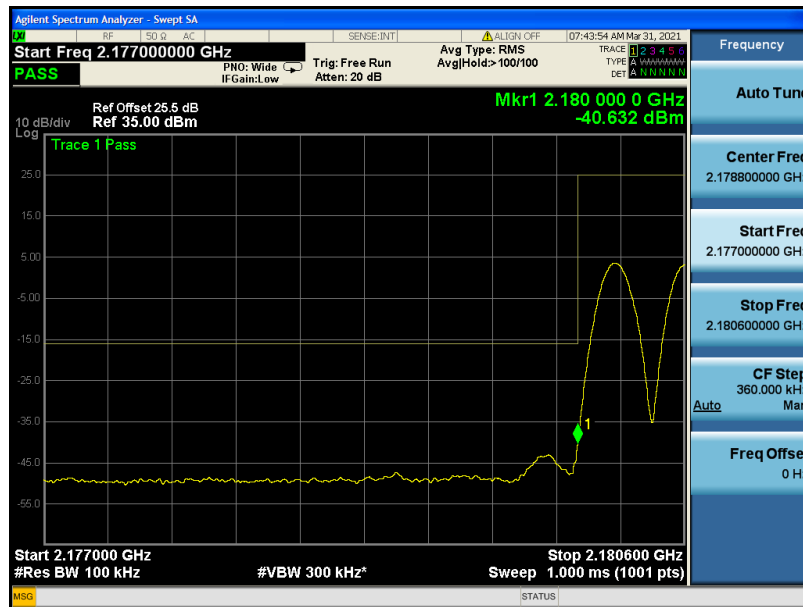
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### DL\_2S\_B\_GSM\_Pre-AGC\_Out-of-band emission



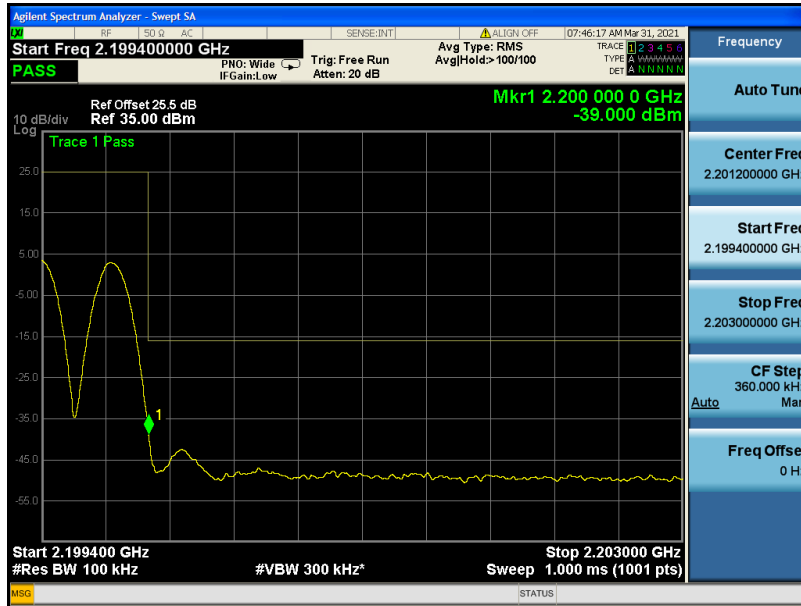
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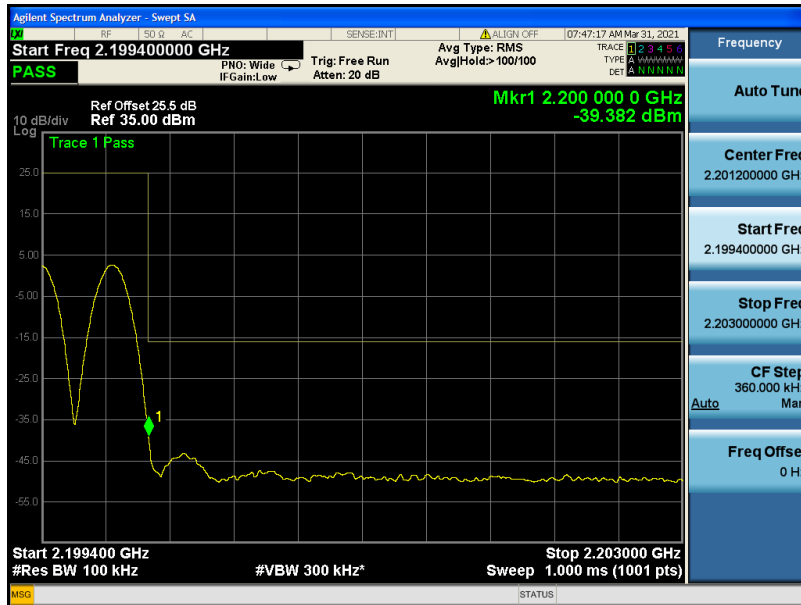
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### DL\_2S\_T\_GSM\_Pre-AGC\_Out-of-band emission



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

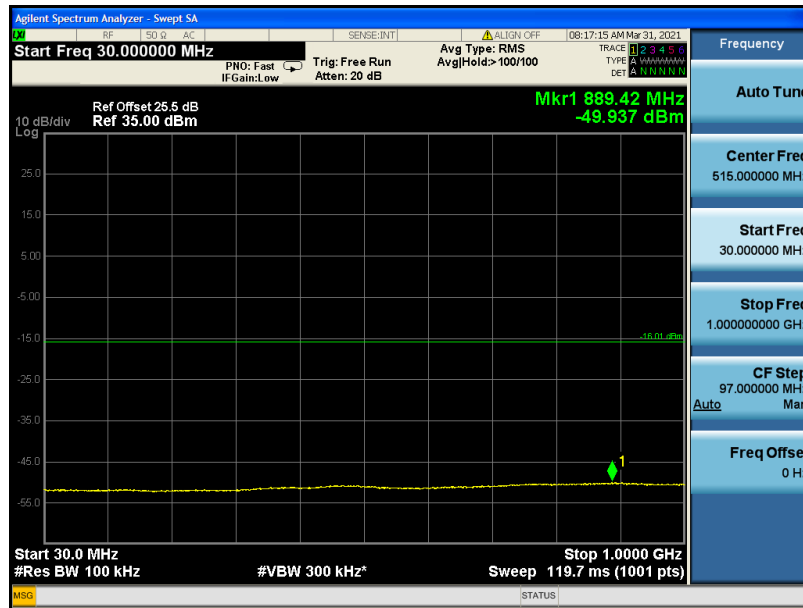


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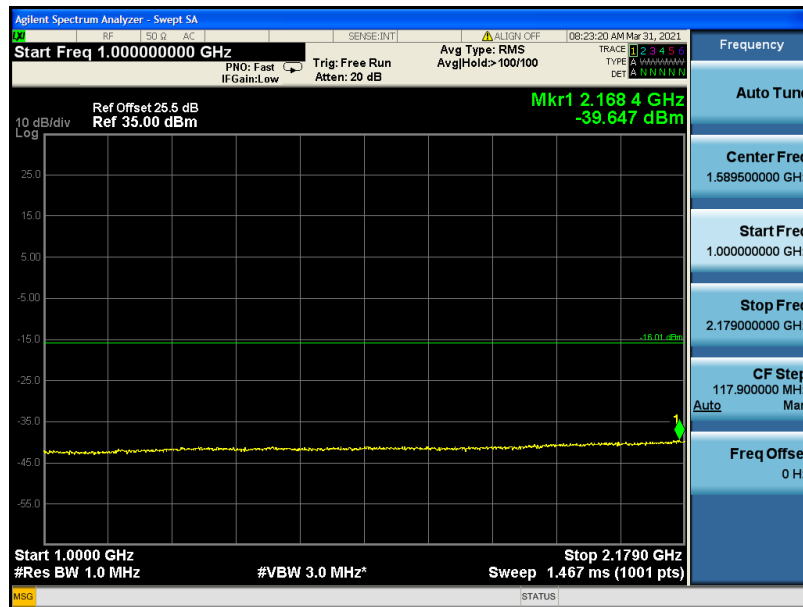
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### DL\_1S\_B\_AWGN\_Pre-AGC\_Spurious emission 1



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



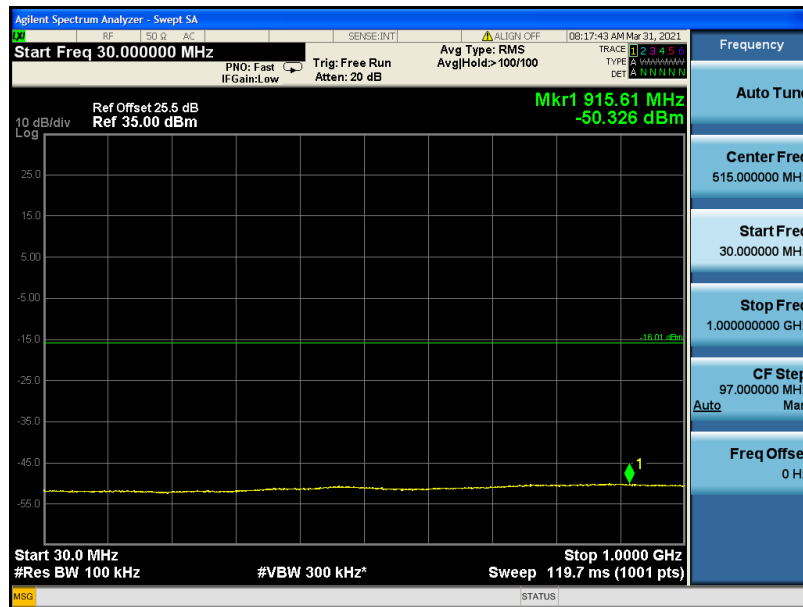
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DL\_1S\_B\_AWGN\_Pre-AGC\_Spurious emission 3



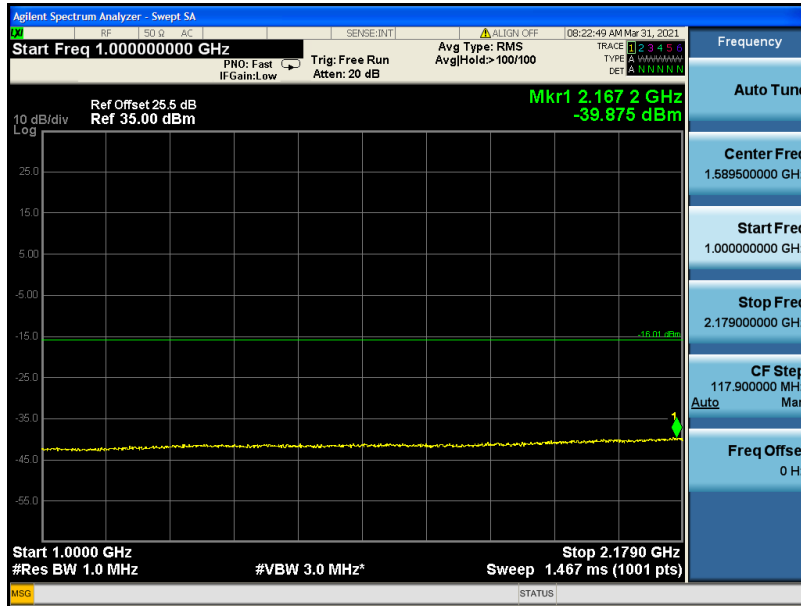
DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 1



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



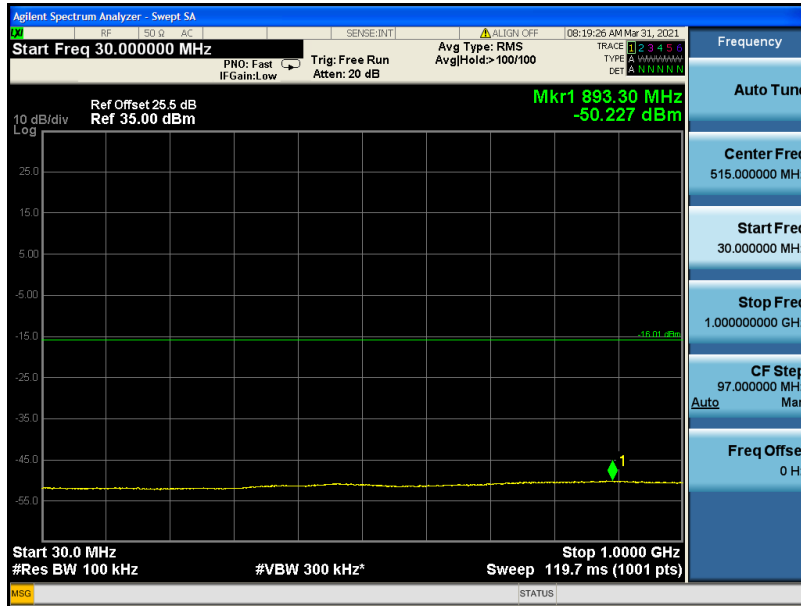
DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 3



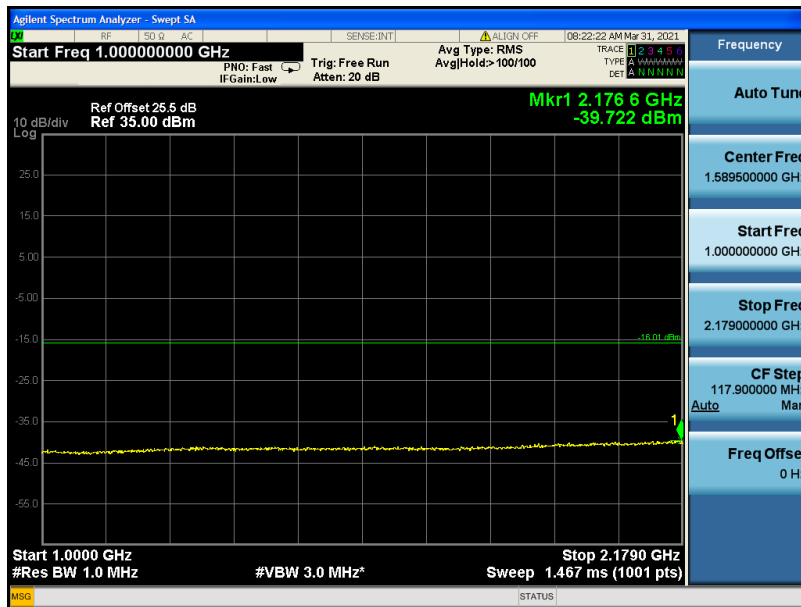
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### DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 1



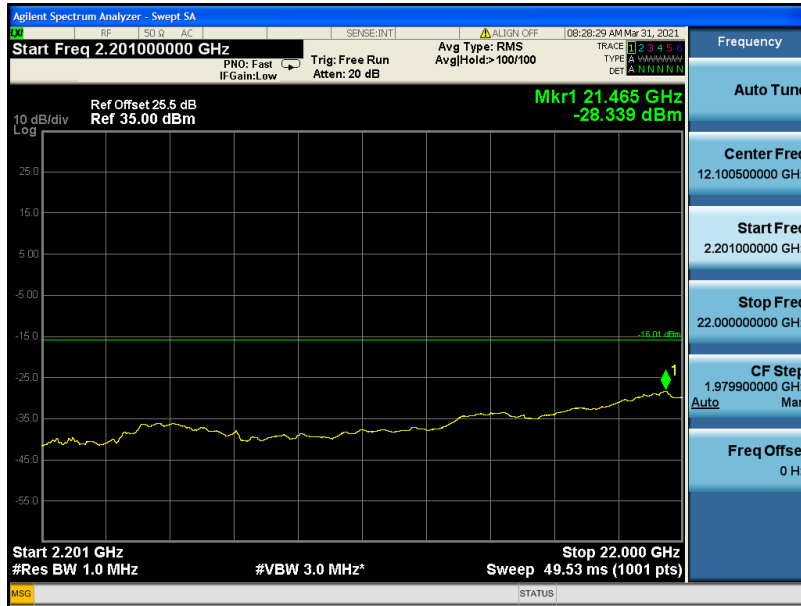
### DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 2



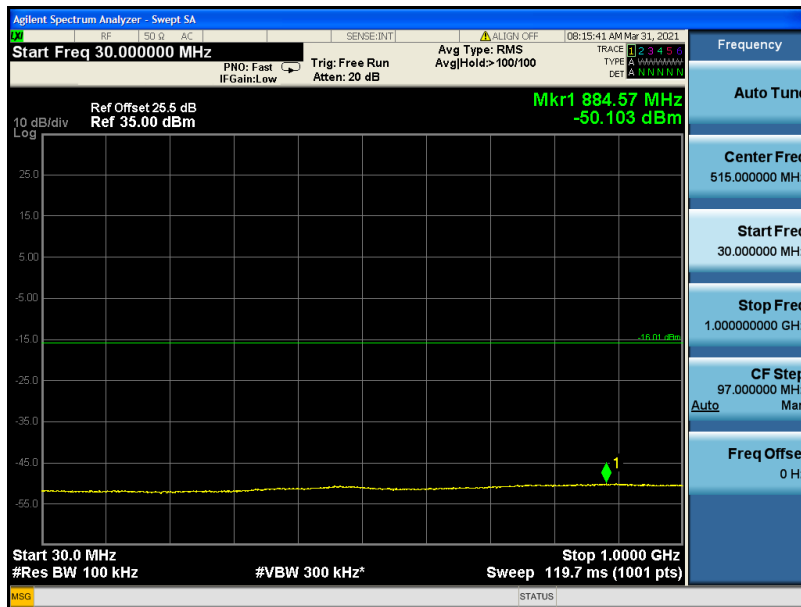
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DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 3



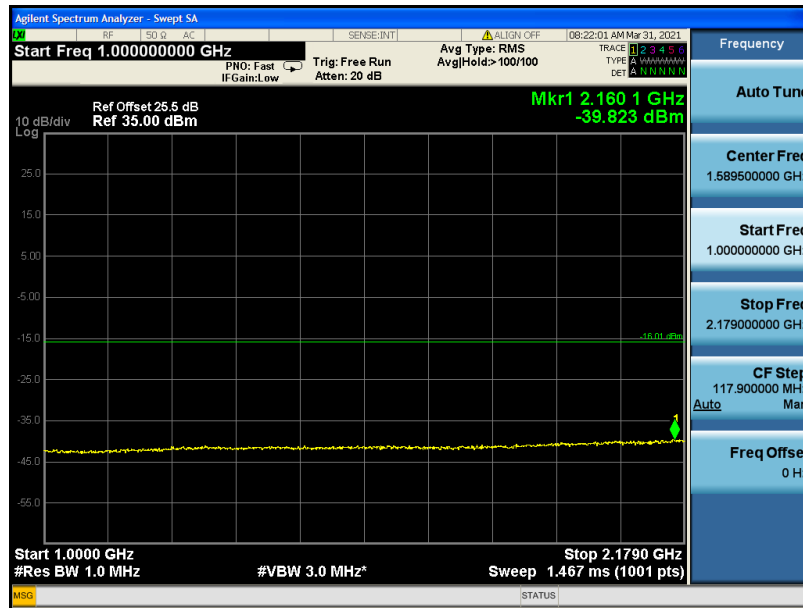
DL\_1S\_B\_GSM\_Pre-AGC\_Spurious emission 1



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### DL\_1S\_B\_GSM\_Pre-AGC\_Spurious emission 2



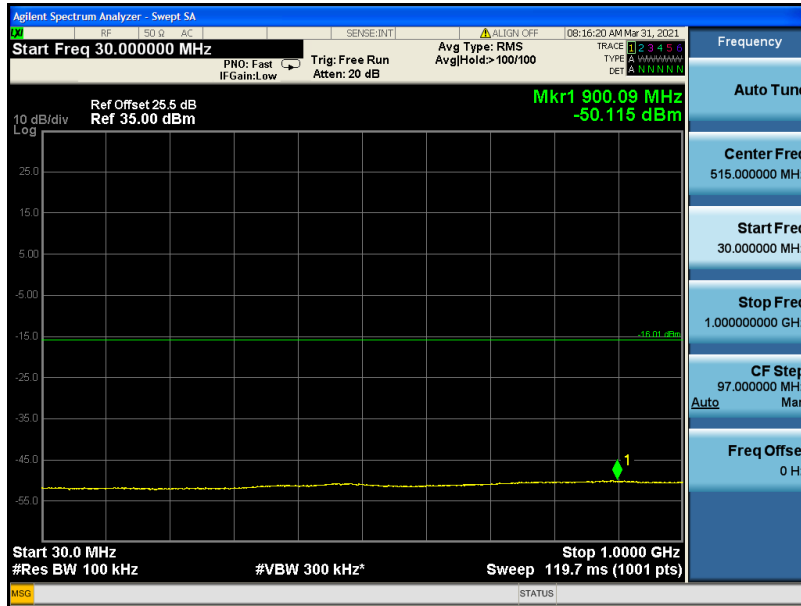
### DL\_1S\_B\_GSM\_Pre-AGC\_Spurious emission 3



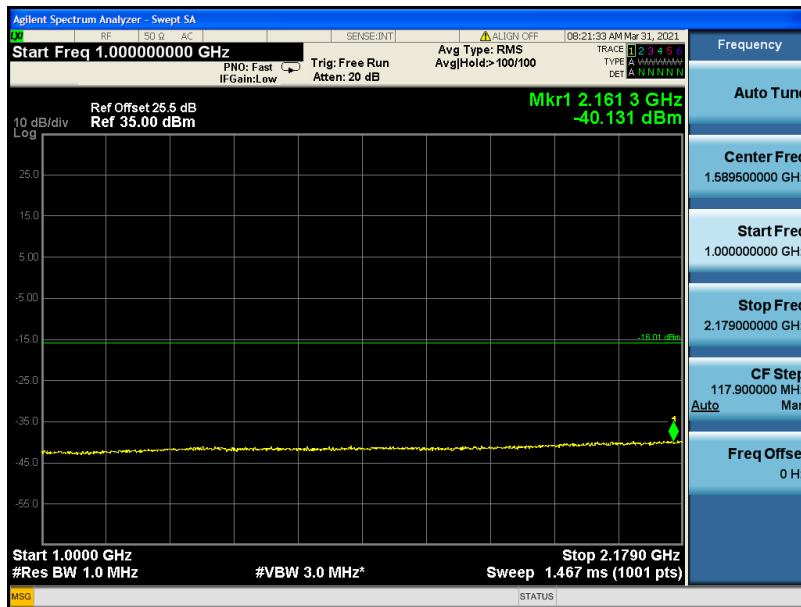
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### DL\_1S\_M\_GSM\_Pre-AGC\_Spurious emission 1



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



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



### DL\_1S\_T\_GSM\_Pre-AGC\_Spurious emission 1

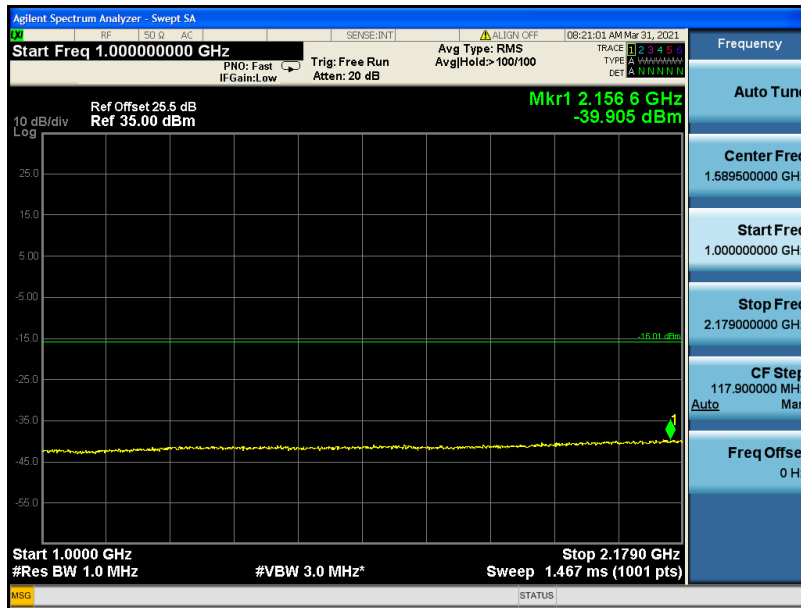


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DL\_1S\_T\_GSM\_Pre-AGC\_Spurious emission 2



DL\_1S\_T\_GSM\_Pre-AGC\_Spurious emission 3



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**2.6 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.	Test data (MHz)	Tolerance (ppm)	Verdict
50	DL_1S_M_AWGN	2155.512386	-0.02	PASS
40		2155.512492	0.03	PASS
30		2155.512352	-0.04	PASS
20		2155.512432	Reference	PASS
10		2155.512346	-0.04	PASS
0		2155.512374	-0.03	PASS
-10		2155.512396	-0.02	PASS
-20		2155.512411	-0.01	PASS
-30		2155.512480	0.02	PASS

Frequency stability vs voltage				
Voltage (V)	Test Conf.	Test data (MHz)	Tolerance (ppm)	Verdict
DC 40.8	DL_1S_M_AWGN	2155.512398	-0.02	PASS
DC 48		2155.512432	Reference	PASS
DC 55.2		2155.512410	-0.01	PASS



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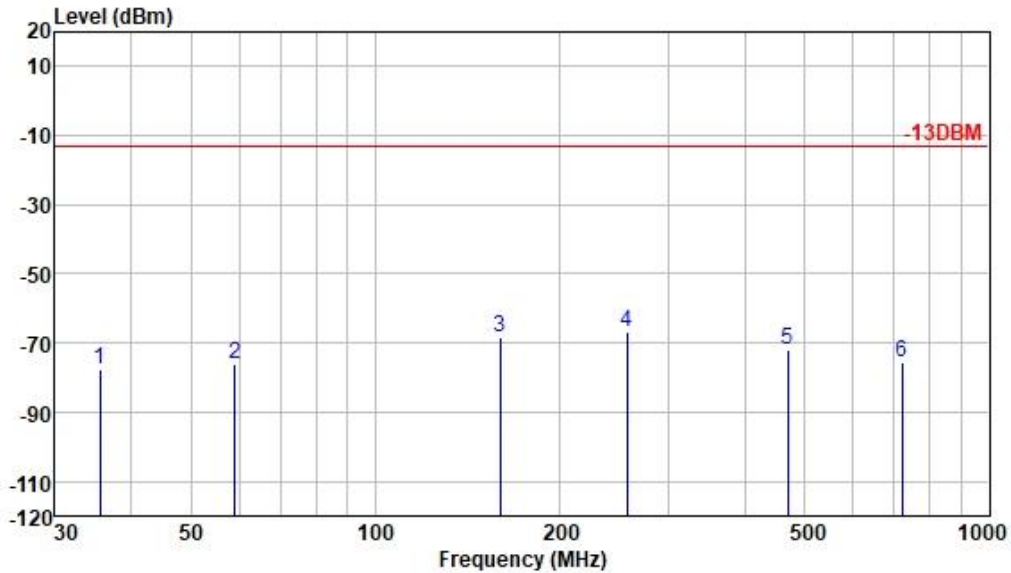
2.7 Radiated spurious emissions

Note: 1. The tested max conducted power for single antenna port is 20.36dBm. the 2x2 MIMO total power is 20.36dBm+20.36dBm= 0.2173W.  
 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 log10 (P) dB  
 Here,  
 P=0.2173W,  
 So the limit =  
 P(dBm)- [43 + 10 log (0.2173W)] =-13dBm  
 For these AWS-4 operations in the 2180-2200 MHz band, the power of any emissions on all frequencies between 2200 and 2290 MHz shall not exceed an EIRP of -100.6 dBW/4 kHz,  
 -100.6 dBW/4 kHz = -70.6 dBm/4 kHz = -46.6 dBm/1 MHz  
 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 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



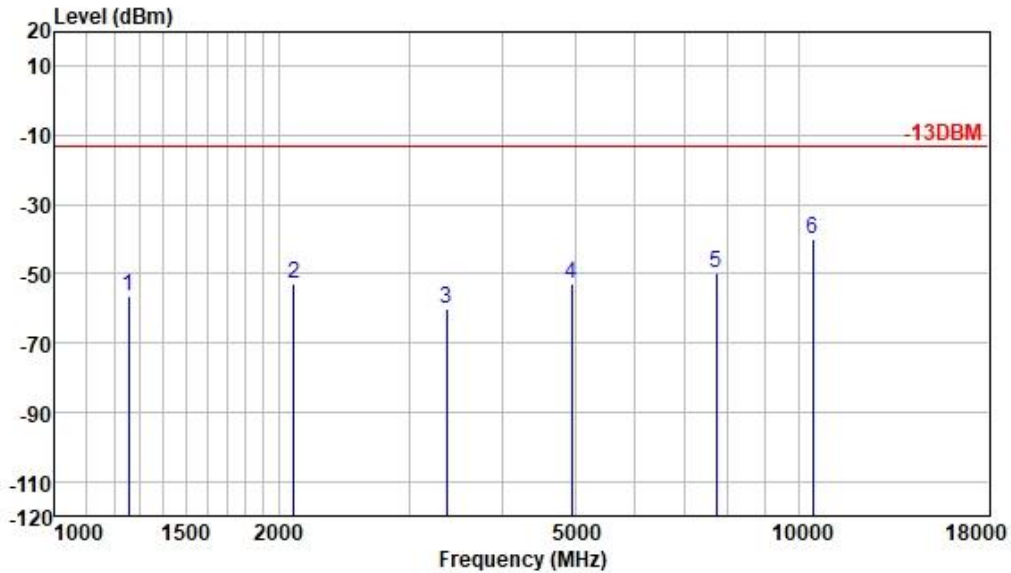
	Freq	Read Level	Correction Factor	Limit Level	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dB	
1	35.50	-80.54	2.80	-77.74	-12.99	HORIZONTAL
2	59.03	-73.55	-2.45	-76.00	-12.99	HORIZONTAL
3	159.78	-61.72	-6.46	-68.18	-12.99	HORIZONTAL
4	256.52	-62.01	-4.71	-66.72	-12.99	HORIZONTAL
5	468.88	-72.26	0.32	-71.94	-12.99	HORIZONTAL
6	721.73	-79.08	3.65	-75.43	-12.99	HORIZONTAL



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



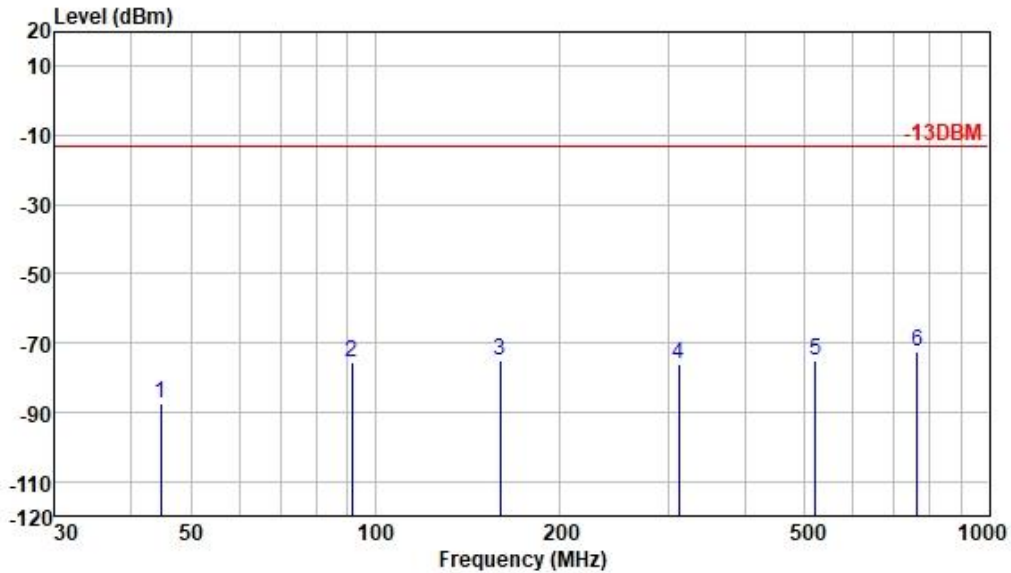
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1256.51	-60.24	3.99	-56.25	-12.99	-43.26	HORIZONTAL
2	2095.80	-62.21	9.56	-52.65	-12.99	-39.66	HORIZONTAL
3	3357.06	-62.31	2.21	-60.10	-12.99	-47.11	HORIZONTAL
4	4944.99	-63.24	10.49	-52.75	-12.99	-39.76	HORIZONTAL
5	7739.86	-64.40	14.57	-49.83	-12.99	-36.84	HORIZONTAL
6	10423.80	-63.08	23.11	-39.97	-12.99	-26.98	HORIZONTAL



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



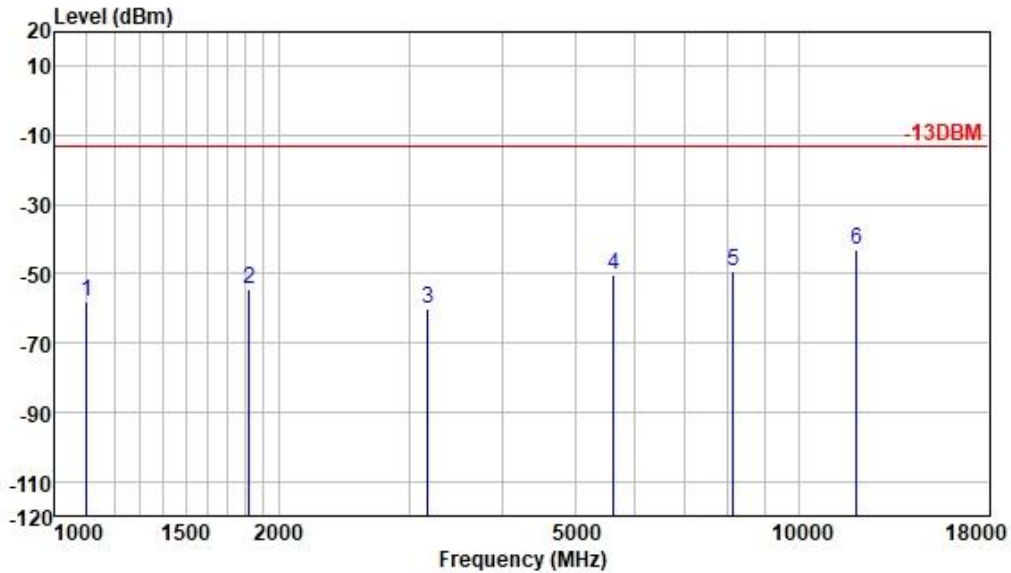
	Freq	Read Level	Correction Factor	Limit Level	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dB	
1	44.59	-75.02	-12.53	-87.55	-12.99	VERTICAL
2	91.49	-68.96	-6.87	-75.83	-12.99	VERTICAL
3	159.78	-71.14	-3.94	-75.08	-12.99	VERTICAL
4	312.18	-73.37	-2.61	-75.98	-12.99	VERTICAL
5	520.89	-76.19	1.12	-75.07	-12.99	VERTICAL
6	763.38	-78.98	6.73	-72.25	-12.99	VERTICAL



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



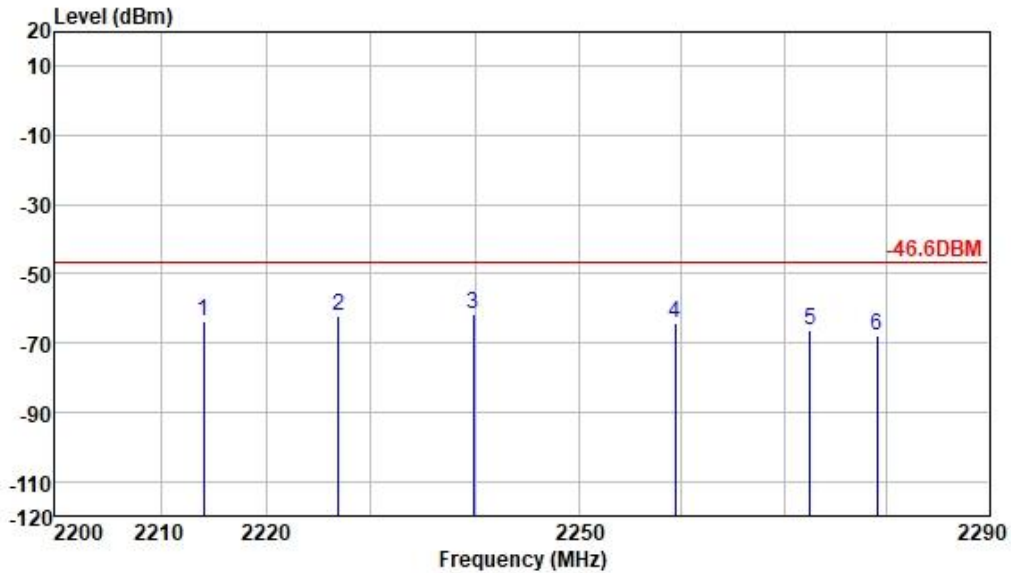
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1103.26	-62.57	4.70	-57.87	-12.99	-44.88	VERTICAL
2	1824.30	-60.56	6.03	-54.53	-12.99	-41.54	VERTICAL
3	3168.50	-62.57	2.64	-59.93	-12.99	-46.94	VERTICAL
4	5631.88	-64.98	14.47	-50.51	-12.99	-37.52	VERTICAL
5	8153.20	-64.62	15.21	-49.41	-12.99	-36.42	VERTICAL
6	11940.54	-64.84	21.71	-43.13	-12.99	-30.14	VERTICAL



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DL\_1S\_M\_AWGN\_Horizontal\_2200-2290MHz



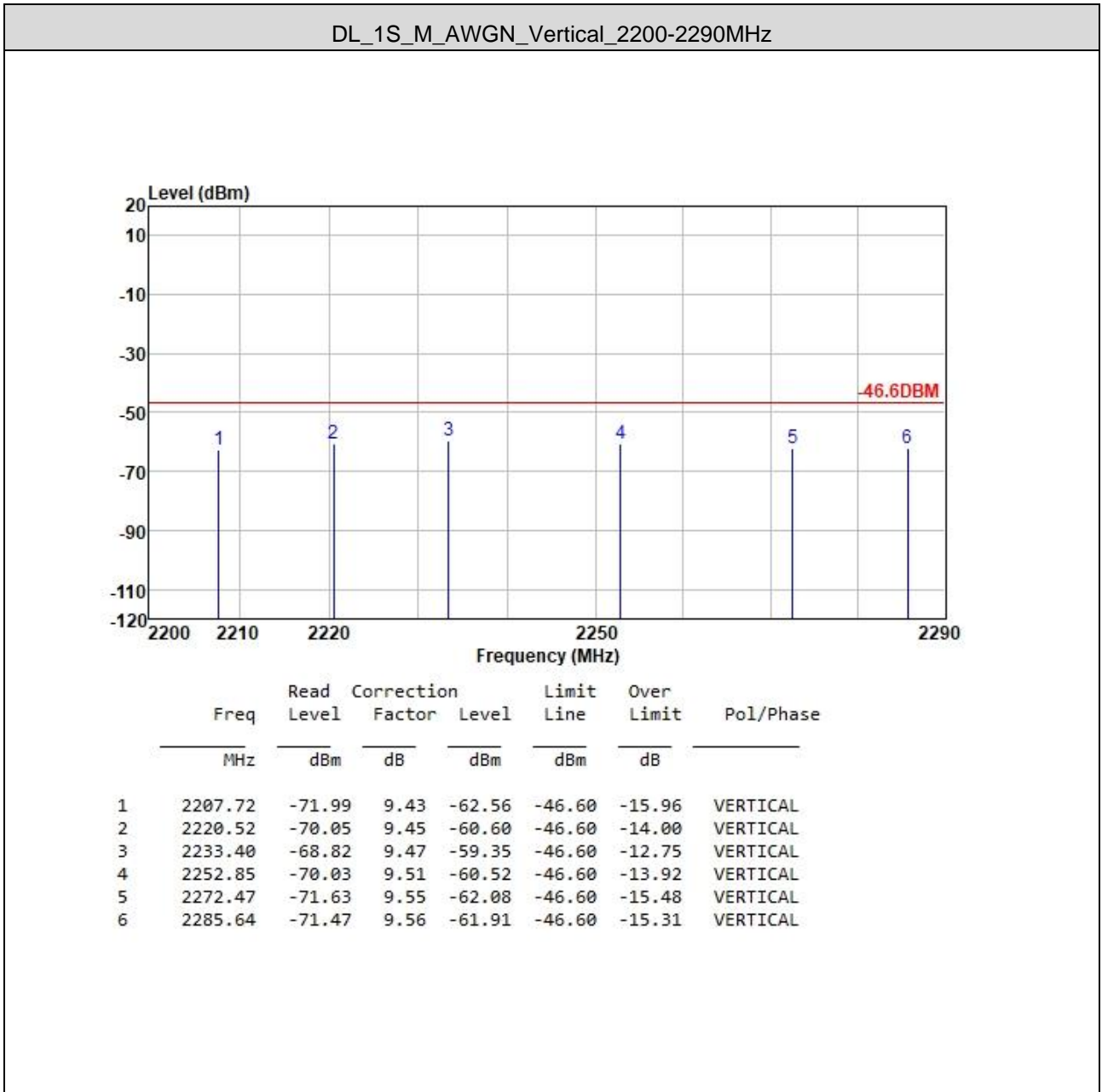
	Freq	Read Level	Correction Factor	Level	Limit	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	2214.11	-72.72	9.27	-63.45	-46.60	-16.85	HORIZONTAL
2	2226.95	-71.21	9.32	-61.89	-46.60	-15.29	HORIZONTAL
3	2239.86	-71.01	9.38	-61.63	-46.60	-15.03	HORIZONTAL
4	2259.37	-73.71	9.47	-64.24	-46.60	-17.64	HORIZONTAL
5	2272.47	-75.80	9.51	-66.29	-46.60	-19.69	HORIZONTAL
6	2279.04	-77.35	9.53	-67.82	-46.60	-21.22	HORIZONTAL



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--End of Appendix--



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