

EMC-ARF-05 Rev 1.1

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FCC ID: OJFDHRU-G2-6

# Appendix -

# Test Data and Result for report GZCR231100125302

(A)

(For copied data from original report GZCR210300001202)



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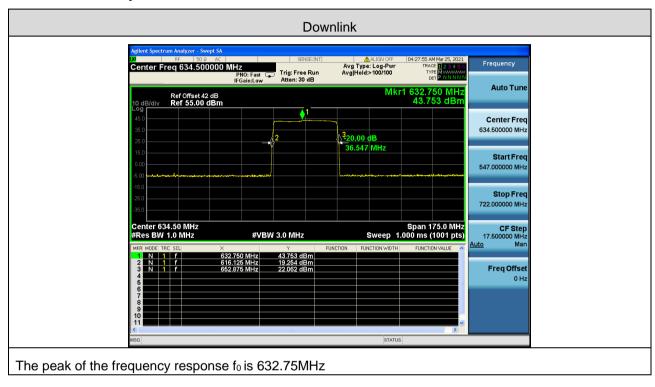
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#### 1 600MHz Service (only for downlink: 617-652MHz)

#### 1.1 Out-of-band rejection





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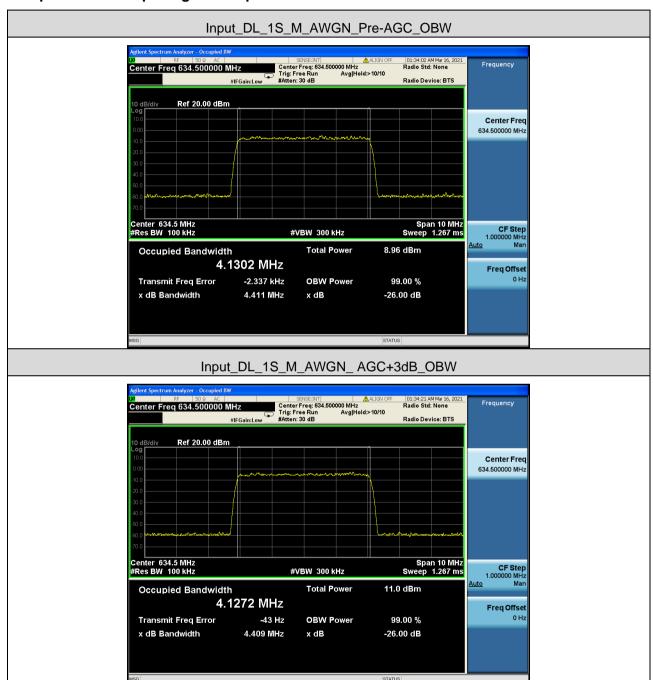
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#### 1.2 Input-versus-output signal comparison





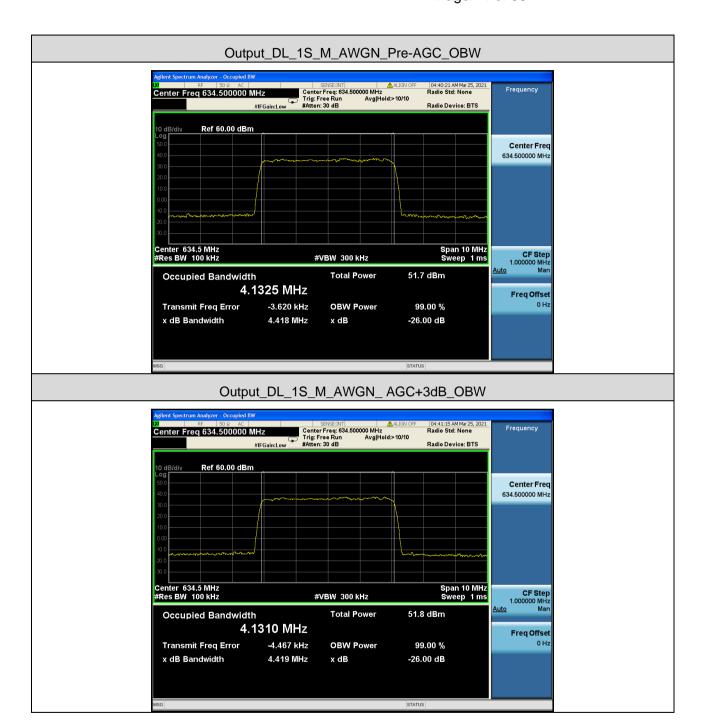
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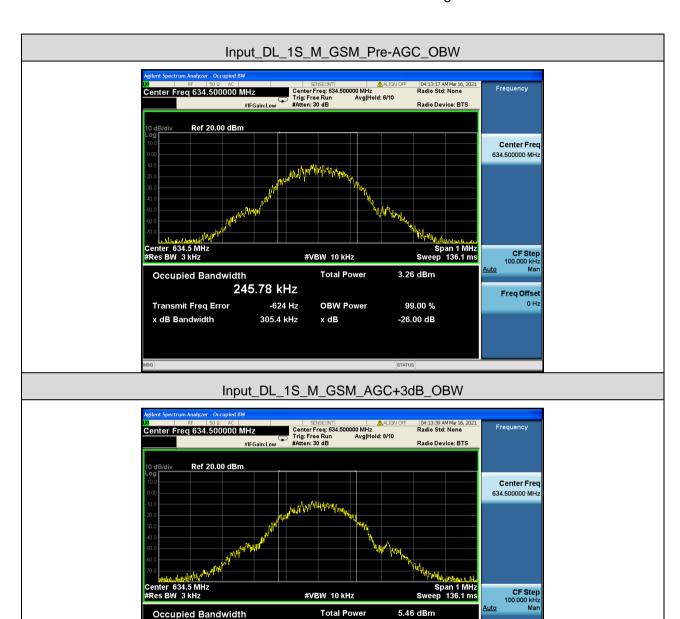
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244.09 kHz

-1.605 kHz

310.3 kHz

**OBW Power** 

x dB

99.00 %

-26.00 dB

Transmit Freq Error

x dB Bandwidth

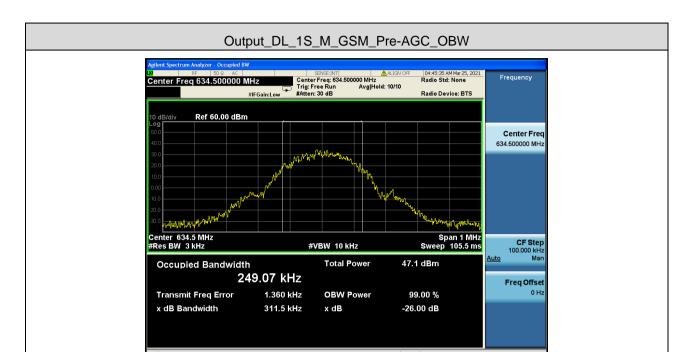
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Freq Offset

0 H



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



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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#### 1.3 Mean output power and amplifier/booster gain

Test Conf.	Test Freq. fo	Signal Level	Input Power (dBm)	Output Power (dBm)	Gain (dB)	Verdict
DL_1S_AWGN	632.75	Pre-AGC	-0.12	43.18	43.30	PASS
		AGC+3dB	2.88	43.03	/	PASS
		Pre-AGC	-0.20	43.09	43.29	PASS
DL_1S_GSM	632.75	AGC+3dB	2.80	43.15	/	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 ( $N_{ANT}$ ) dBi = 12.5dBi+10log (2) dBi= 15.5dBi.

ERP= EIRP-2.15dB,

The total maximum ERP for the EUT is (43.18dBm+43.18dBm) +15.5dBi-2.15dB=59.54dBm (899.50W) which don't exceed the required ERP limit (1000W/MHz).

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

Note:

The tested max conducted power for single antenna port is 43.18dBm, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB, the limit corresponds to an absolute limit of −13 dBm.

P=43.18dBm= 20.80W.

So the limit =

Here,

P(dBm)- [43 + 10 log (20.80W)] = -13dBm

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.

The spurious emissions 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 T AWGN Pre-AGC Out-of-band emission Avg Type: RMS Avg|Hold:>100/100 Frequency Start Freq 649.500000 MHz PNO: Wide Trig: Free Run IFGain:Low Atten: 10 dB 52.000 0 MHz -28.837 dBm Ref Offset 42 dB Ref 40.00 dBm Center Fred 650.900000 MH Start Fred 649.500000 MHz Stop Free **CF Step** 280.000 kHz Frea Offset Start 649.500 MHz #Res BW 100 kHz Stop 652.300 MHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz\* DL\_1S\_T\_AWGN\_AGC+3\_Out-of-band emission





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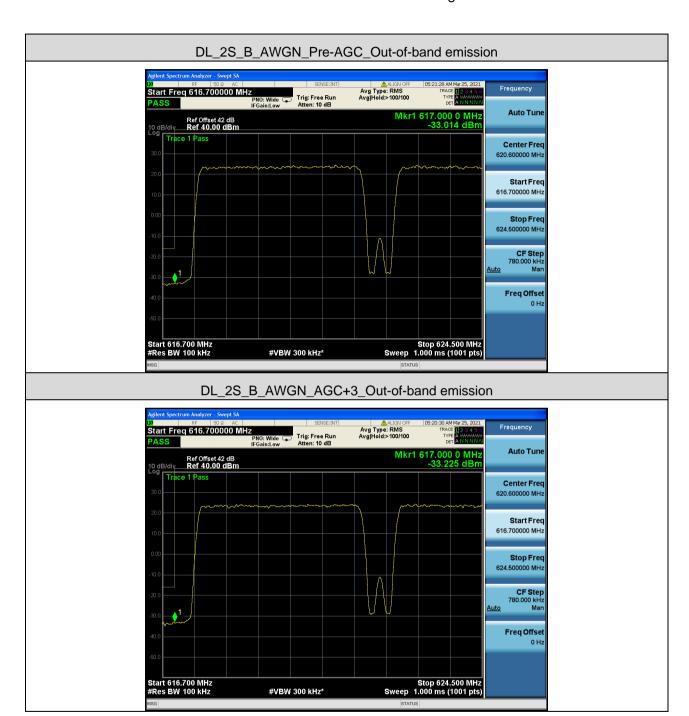
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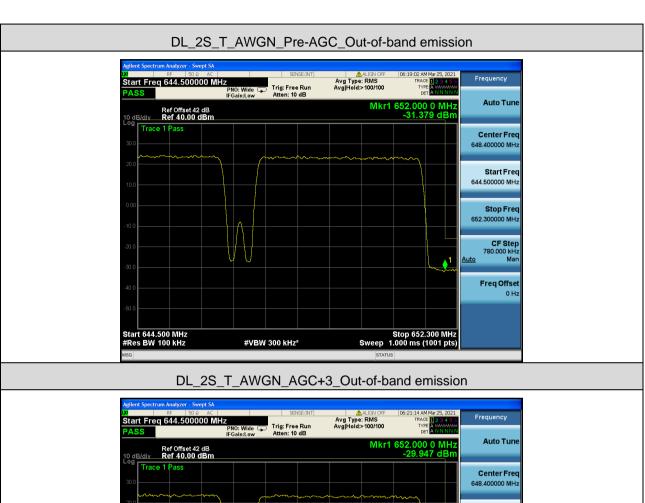
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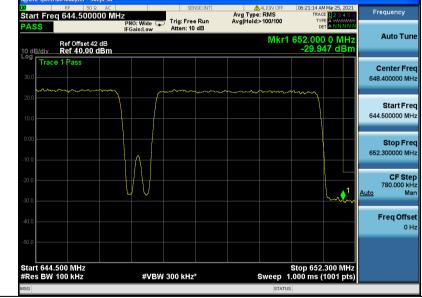
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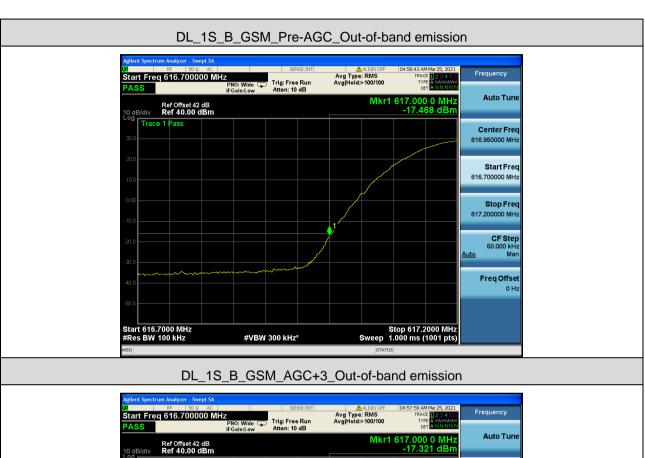
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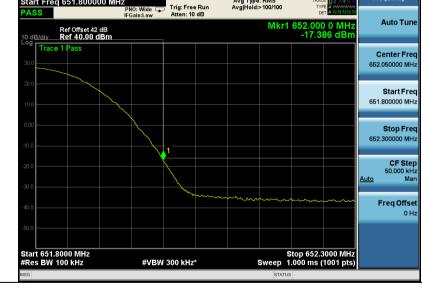
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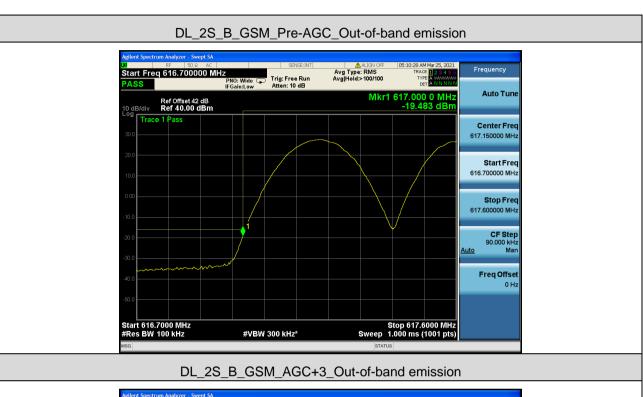
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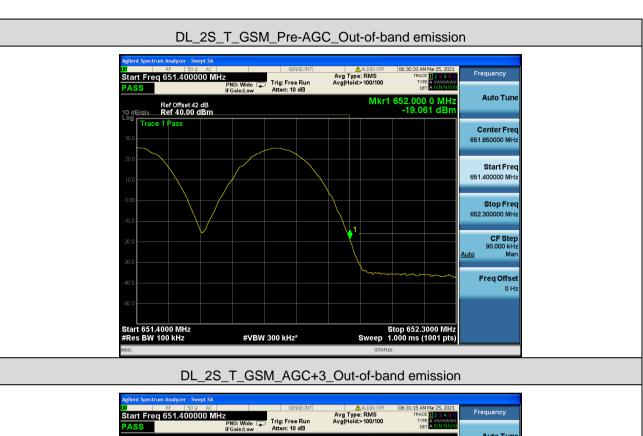
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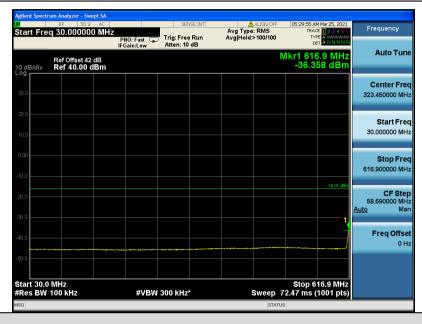
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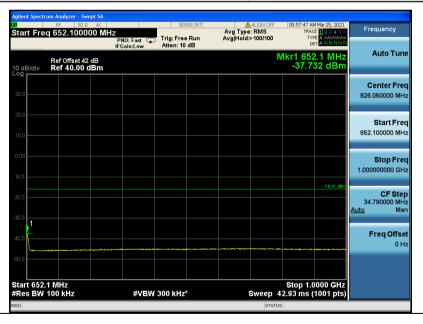


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#### DL 1S B AWGN Pre-AGC Spurious emission 1



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





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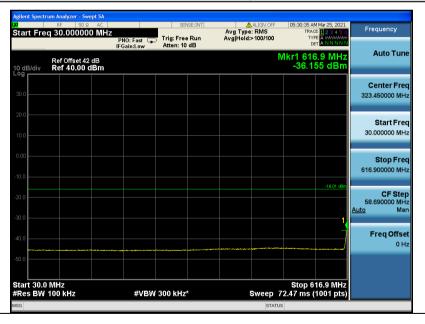


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#### DL\_1S\_M\_AWGN\_Pre-AGC\_Spurious emission 1





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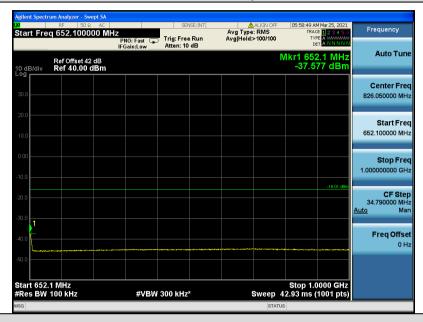
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#### DL 1S M AWGN Pre-AGC Spurious emission 2



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





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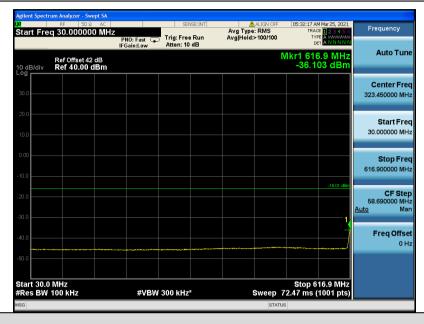
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#### DL\_1S\_T\_AWGN\_Pre-AGC\_Spurious emission 2





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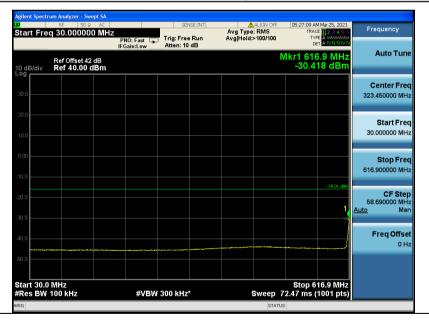


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#### DL\_1S\_B\_GSM\_Pre-AGC\_Spurious emission 1





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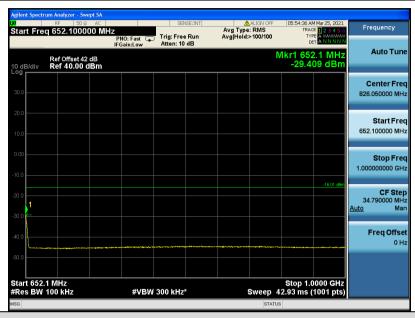
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#### DL\_1S\_B\_GSM\_Pre-AGC\_Spurious emission 3





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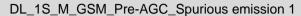
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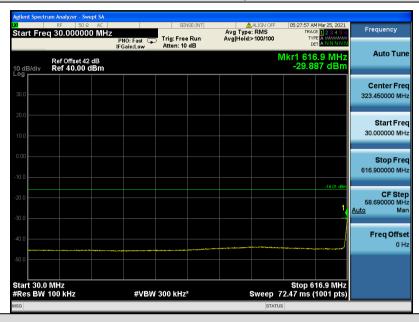
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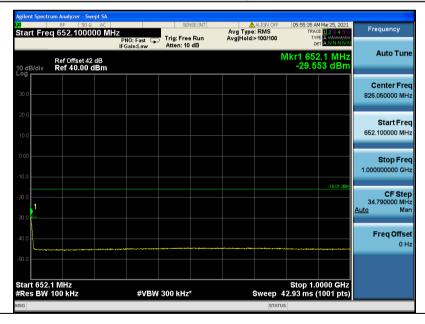


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#### DL\_1S\_M\_GSM\_Pre-AGC\_Spurious emission 2





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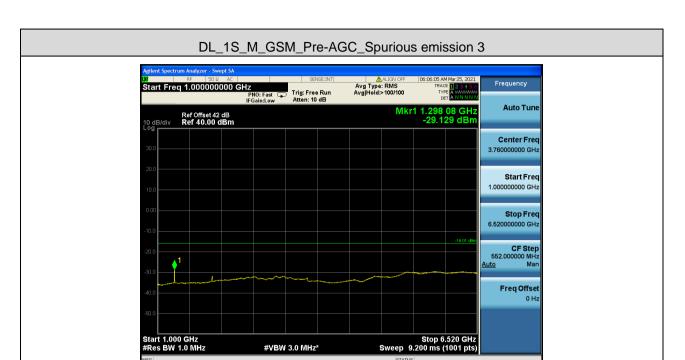
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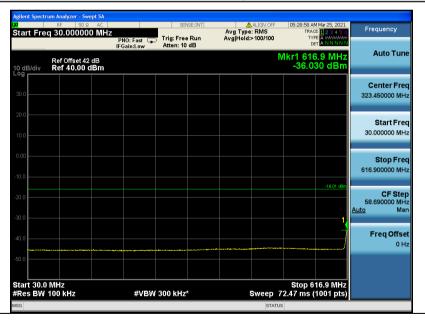
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#### DL\_1S\_T\_GSM\_Pre-AGC\_Spurious emission 1





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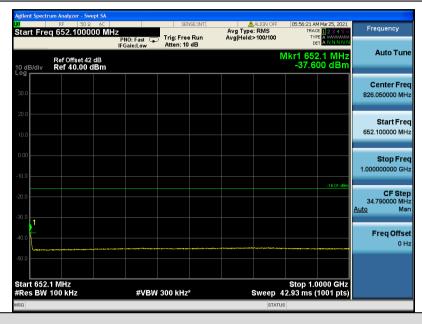
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#### DL\_1S\_T\_GSM\_Pre-AGC\_Spurious emission 3





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#### 1.5 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 AC 110V.
- 2. At  $\pm$ 20 °C temperature and  $\pm$ 15% supply voltage variations. If a product is specified to operate over a range of input voltage, then the  $\pm$ 15% variation is applied to the lowermost voltage and the  $\pm$ 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		634.505423	-0.33	PASS			
40		634.505752	0.19	PASS			
30		634.505548	-0.13	PASS			
20		634.505632	Reference	PASS			
10	DL_1S_M_AWGN	634.505212	-0.67	PASS			
0		634.505534	-0.15	PASS			
-10		634.505423	-0.33	PASS			
-20		634.505423	-0.33	PASS			
-30		634.505753	0.19	PASS			

Frequency stability vs voltage								
Voltage (V)	Test Conf.	Test data (MHz)	Tolerance (ppm)	Verdict				
AC 93.5		634.505553	-0.12	PASS				
AC 110	DL_1S_M_AWGN	634.505632	Reference	PASS				
AC 126.5		634.505674	0.07	PASS				



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#### 1.6 Radiated spurious emissions

Note:

1. The tested max conducted power for single antenna port is 43.18dBm, the 2x2 MIMO total power is 43.18dBm+43.18dBm= 41.59W.

The any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB.

Here,

P=41.59W,

So the limit =

P(dBm)- [43 + 10 log (41.59W)] = -13dBm

- 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 20 Level (dBm) 10 13DBM -10 -30 -50 -70 5 -90 -110 -120<sub>30</sub> 100 200 500 1000 Frequency (MHz) Read Correction Limit 0ver Pol/Phase Freq Level Factor Level Line Limit MHZ dBm dB dBm dBm dB 31.51 -81.44 3.38 -78.06 -12.99 -65.07 HORIZONTAL 2 52.21 -78.48 -1.46 -79.94 -12.99 -66.95 HORIZONTAL -68.33 -7.82 -76.15 -12.99 -63.16 3 139.85 HORTZONTAL 248.55 -63.24 -5.56 -68.80 -12.99 -55.81 HORIZONTAL -76.92 -0.12 -77.04 -12.99 -64.05 420.58 HORIZONTAL 614.21 -79.50 3.24 -76.26 -12.99 -63.27 HORIZONTAL



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#### DL 1S M AWGN Horizontal above 1GHz 20 Level (dBm) 10 13DBM -10 -30 6 -50 3 -70 -90 -110 -120 1000 1500 2000 5000 10000 18000 Frequency (MHz) Read Correction Limit 0ver Freq Level Factor Level Line Limit Pol/Phase MHZ dBm dB dBm dBm dB 1358.50 -60.37 4.33 -56.04 -12.99 -43.05 HORIZONTAL 2 2265.91 -58.74 9.49 -49.25 -12.99 -36.26 HORIZONTAL 3.84 -59.37 3 3536.34 -63.21 -12.99 -46.38 HORTZONTAL -64.23 11.40 -52.83 -12.99 -39.84 HORIZONTAL 5031.50 -63.62 13.43 -50.19 -12.99 -37.20 8248.01 HORIZONTAL 11467.00 -65.83 21.68 -44.15 -12.99 -31.16 HORIZONTAL



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t (86-20) 82155555 t (86-20) 82155555



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#### DL 1S M AWGN Vertical 30MHz~1GHz 20 Level (dBm) 10 13DBM -10 -30 -50 -70 -90 -110 -120<sub>30</sub> 50 100 200 500 1000 Frequency (MHz) Read Correction Limit 0ver Pol/Phase Freq Level Factor Level Line Limit MHZ dBm dB dBm dBm dB 57.59 -69.82 -2.85 -72.67 -12.99 -59.68 VERTICAL 2 102.72 -68.42 -5.02 -73.44 -12.99 -60.45 VERTICAL -78.06 -3.94 -82.00 -12.99 -69.01 3 166.07 VERTICAL 4 268.49 -70.41 -3.51 -73.92 -12.99 -60.93 VERTICAL 1.55 -72.10 -12.99 -59.11 454.31 -73.65 VERTICAL 804.60 -80.94 7.46 -73.48 -12.99 -60.49 VERTICAL



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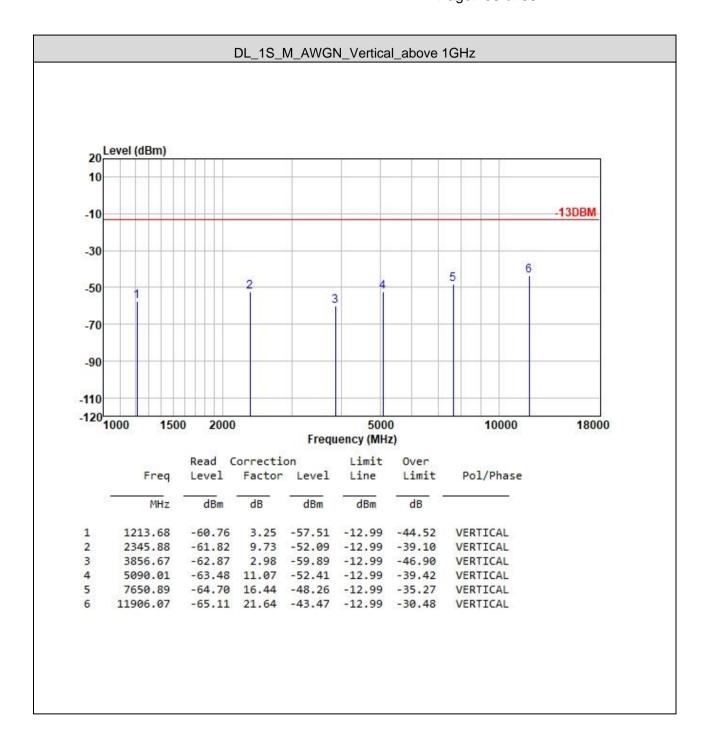
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#### -- End of Appendix--



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t (86-20) 82155555 t (86-20) 82155555