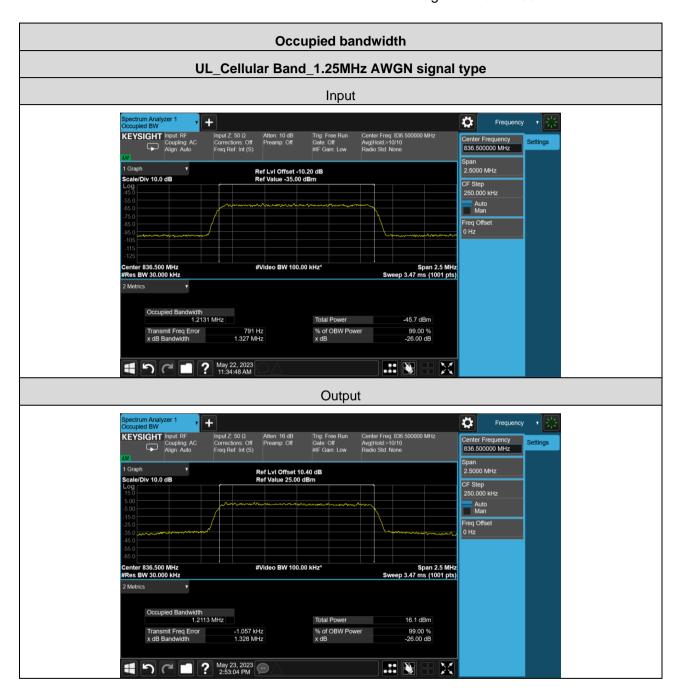


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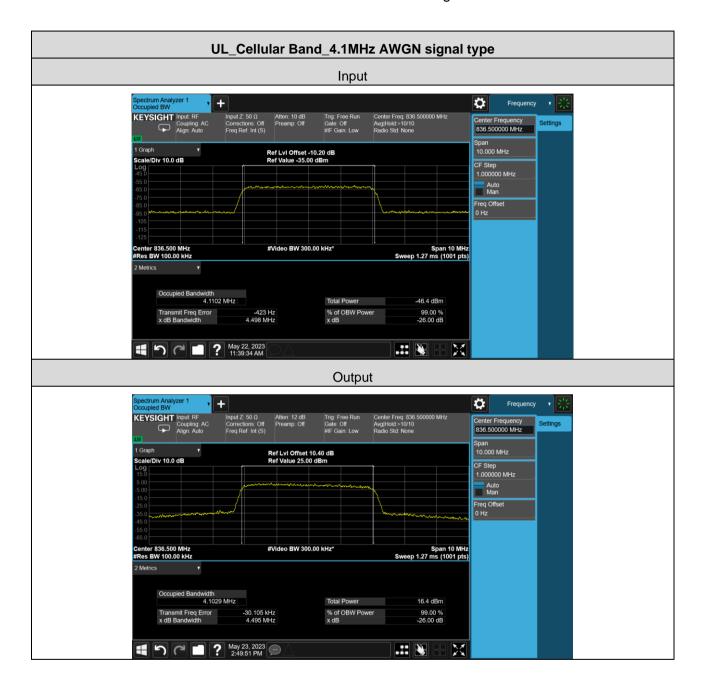


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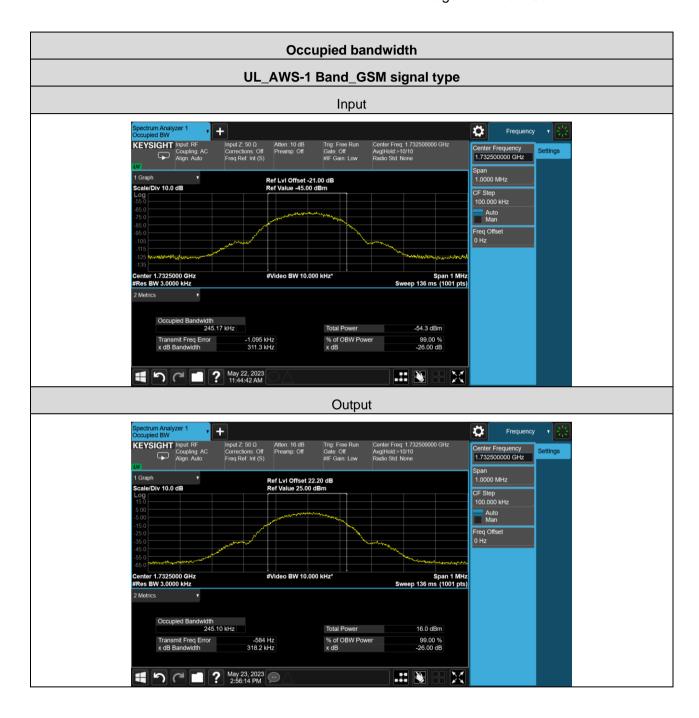


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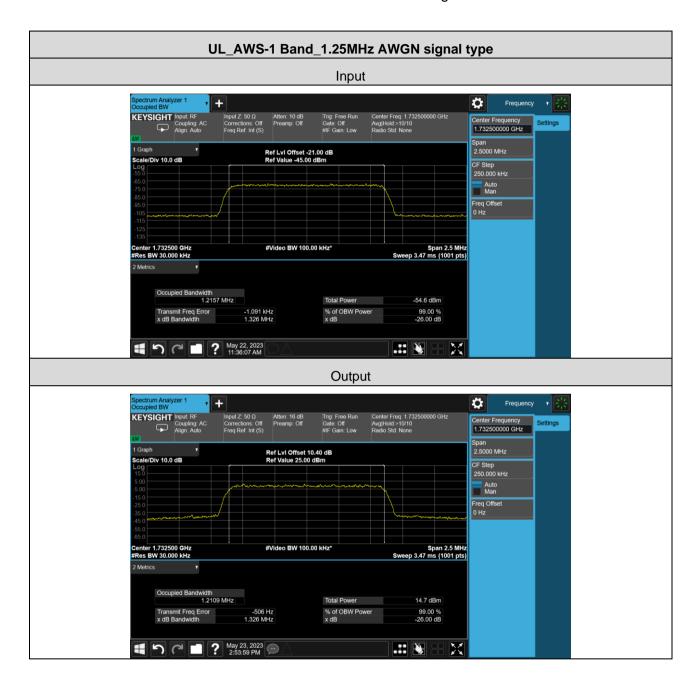


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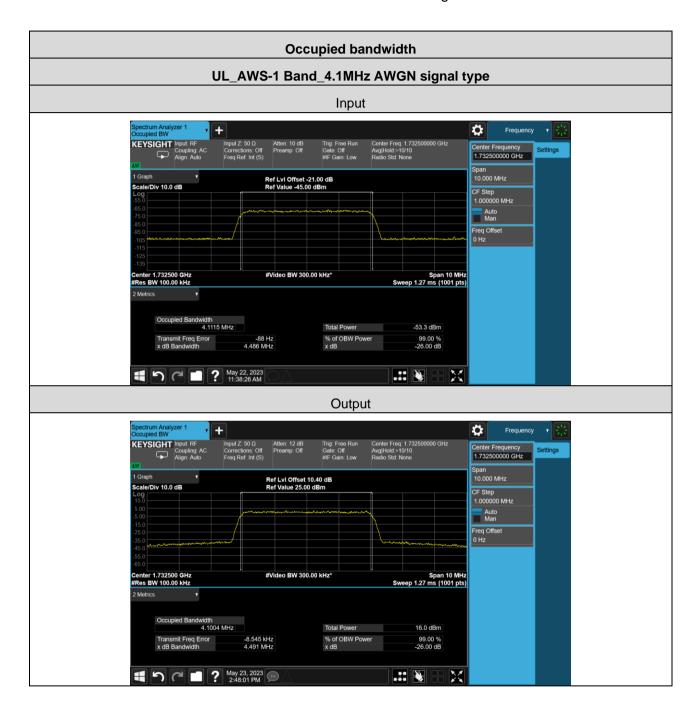
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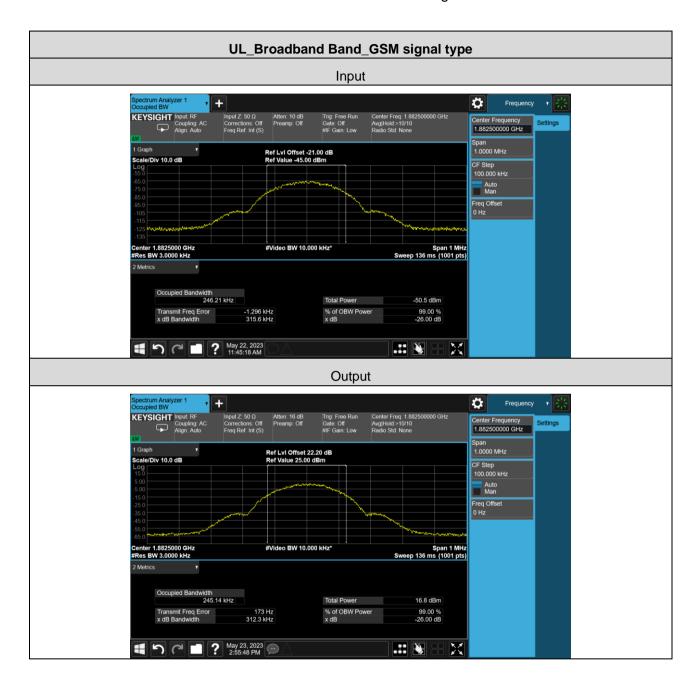
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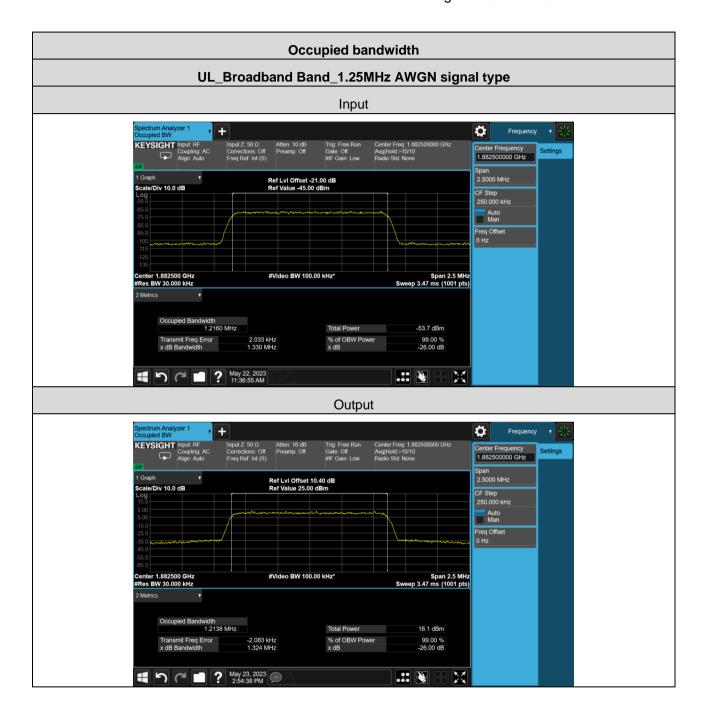
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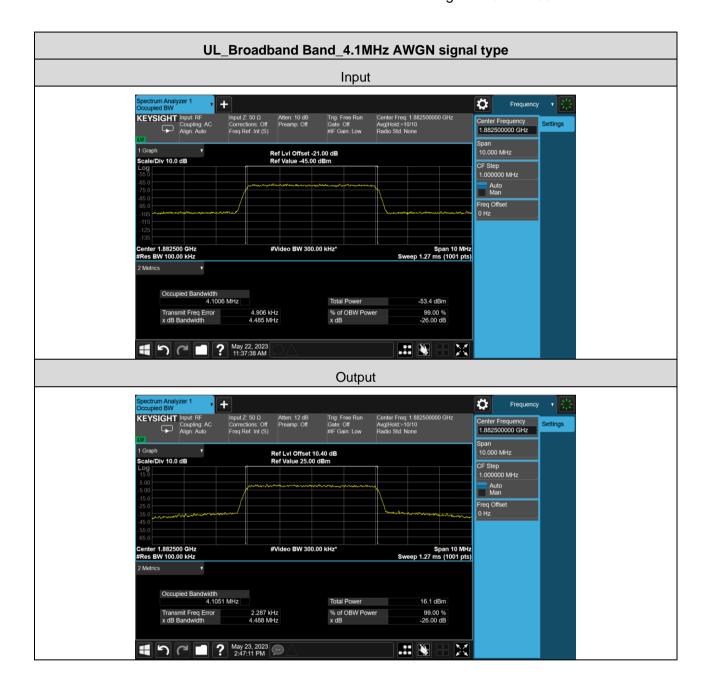
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### 11 Oscillation detection

Oscillation Restart Tests										
Path	Band	Detection Time (s)	Limit (s)	Oscillation Level (dBm)	Restart Time (s)	Limit (s)	Number of Restart	Limit	Verdict	
	700MHz	0.19		3.67	60.34		2	≤5	PASS	
	Cellular	0.23		7.26	60.97	≥60	2		PASS	
DL	AWS-1	0.12	≤1	15.16	61.39		2		PASS	
	Broadband PCS	0.26		16.77	62.70		2		PASS	
	Lower 700MHz	0.28		5.54	60.48		2	≤5	PASS	
	Upper 700MHz	0.21		6.27	62.72		2		PASS	
UL	Cellular	0.08	≤0.3	9.54	60.97	≥60	2		PASS	
	AWS-1	0.27		18.56	61.39		2		PASS	
	Broadband PCS	0.21		15.62	61.25		2		PASS	



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Oscillation Mitigation or Shutdown									
Path	Band	Isolation (dB)					Verdict		
		67.6	6.32	1.66	4.66		PASS		
		66.6	9.36	2.53	6.83		PASS		
		65.6	13.46	5.83	7.63		PASS		
		64.6	17.38	9.37	8.01		PASS		
		63.6					PASS		
	700MHz	62.6				≤12	PASS		
		61.6					PASS		
		60.6			PASS				
			59.6			PASS			
		58.6			PASS				
DI.		57.6			PASS				
DL		68.2	6.73	4.38	2.35		PASS		
		67.2	14.38	6.27	8.11		PASS		
		66.2	18.23	11.63	6.60		PASS		
		65.2					PASS		
		64.2					PASS		
	Cellular	63.2				≤12	PASS		
		62.2		(abutdaa)			PASS		
		61.2		(shutdown)			PASS		
		60.2					PASS		
		59.2					PASS		
		58.2					PASS		



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Oscillation Mitigation or Shutdown									
		Isolation	Oscillation Level				.,		
Path	Band	(dB)	Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)	Verdict		
		75.3	11.53	6.87	4.66		PASS		
		74.3	18.93	10.93	8.00		PASS		
		73.3	23.45	15.35	8.10		PASS		
		72.3			PASS				
		71.3					PASS		
	AWS-1	70.3				≤12	PASS		
		69.3	(shutdown)				PASS		
		68.3			PASS				
		67.3			PASS				
		66.3					PASS		
		65.3				PASS			
DL		74.5	15.28	10.36	4.92		PASS		
		73.5	19.38	14.38	5.00		PASS		
		72.5	23.75	11.34	12.41		PASS		
		71.5	26.38	17.37	9.01		PASS		
		70.5					PASS		
	Broadband PCS	69.5				≤12	PASS		
		68.5					PASS		
		67.5		(shutdown)			PASS		
		66.5					PASS		
		65.5					PASS		
		64.5					PASS		



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	Oscillation Mitigation or Shutdown									
		Isolation	(		Limit					
Path	Path Band	(dB)	Highest level (dBm)	Lowest level (dBm)	Difference (dB)	(dB)	Verdict			
		67.2	9.28	3.46	5.82		PASS			
		66.2	16.35	13.62	2.73		PASS			
		65.2					PASS			
		64.2			PASS					
		63.2					PASS			
	Lower 700MHz	62.2				≤12	PASS			
		61.2	(shutdown)				PASS			
			60.2					PASS		
		59.2					PASS			
		58.2					PASS			
		57.2			PASS					
UL		67.2	5.98	1.23	4.75		PASS			
		66.2	11.35	6.36	4.99		PASS			
		65.2	17.95	13.46	4.49		PASS			
		64.2	24.37	19.83	4.54		PASS			
		63.2					PASS			
	Upper 700MHz	62.2				≤12	PASS			
		61.2					PASS			
		60.2		(shutdown)			PASS			
		59.2					PASS			
		58.2					PASS			
		57.2					PASS			



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Oscillation Mitigation or Shutdown									
Path	Band	Isolation (dB)					Verdict		
		68.8	12.36	5.28	7.08		PASS		
		67.8	18.93	13.26	5.67		PASS		
		66.8	26.00	19.43	6.57		PASS		
		65.8					PASS		
		64.8					PASS		
	Cellular	63.8				≤12	PASS		
		62.8					PASS		
			61.8	(shutdown)				PASS	
			60.8		PASS				
		59.8					PASS		
		58.8			PASS				
UL		75.8	14.34	9.45	4.89		PASS		
		74.8	23.74	18.88	4.86		PASS		
		73.8	28.93	22.36	6.57		PASS		
		72.8					PASS		
		71.8					PASS		
	AWS-1	70.8				≤12	PASS		
		69.8		(ab. (tda. ( ) )			PASS		
		68.8		(shutdown)			PASS		
		67.8					PASS		
		66.8				PASS			
		65.8					PASS		



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	Oscillation Mitigation or Shutdown									
Path Band	_	Isolation (dB)	(	Limit						
	Band		Highest level (dBm)	Lowest level (dBm)	Difference (dB)	(dB)	Verdict			
		76.4	11.35	6.46	4.89		PASS			
		75.4	16.83	11.26	5.57		PASS			
	Broadband PCS	74.4	21.46	17.64	3.82		PASS			
		73.4	27.48	19.03	8.45		PASS			
		72.4	(shutdown)				PASS			
UL		71.4				≤12	PASS			
		70.4					PASS			
		69.4					PASS			
		68.4					PASS			
		67.4					PASS			
		66.4	-				PASS			

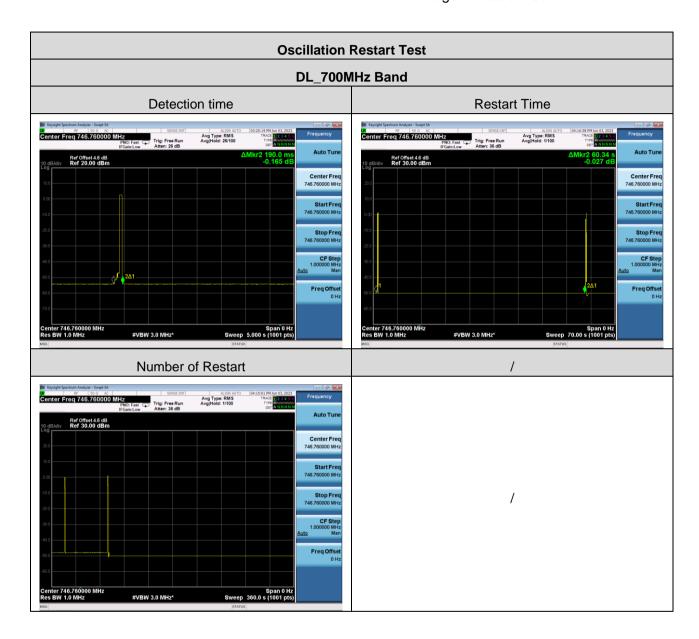


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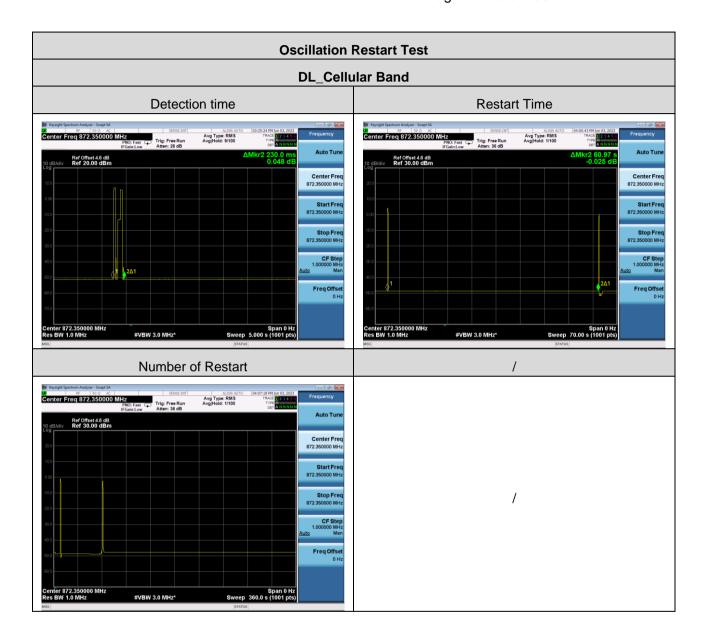


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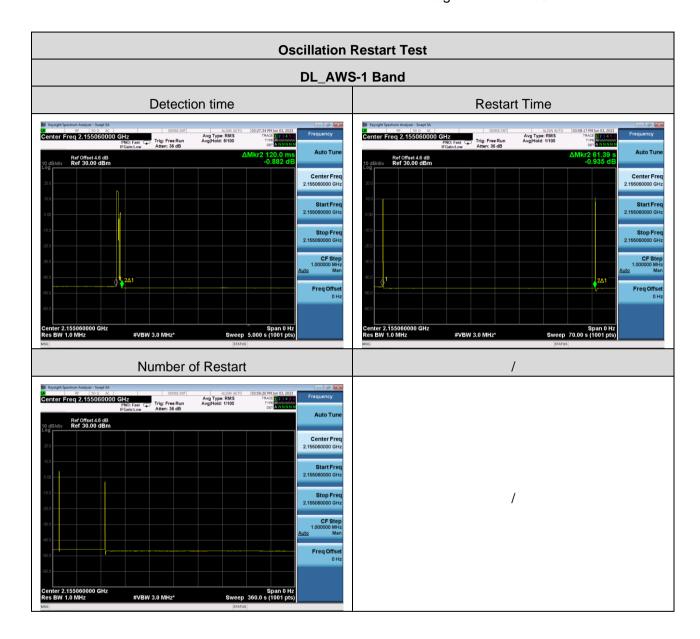


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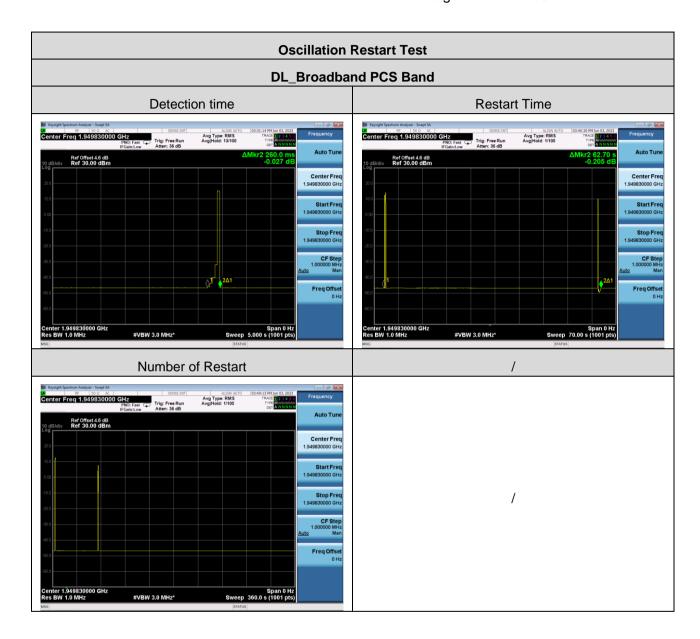


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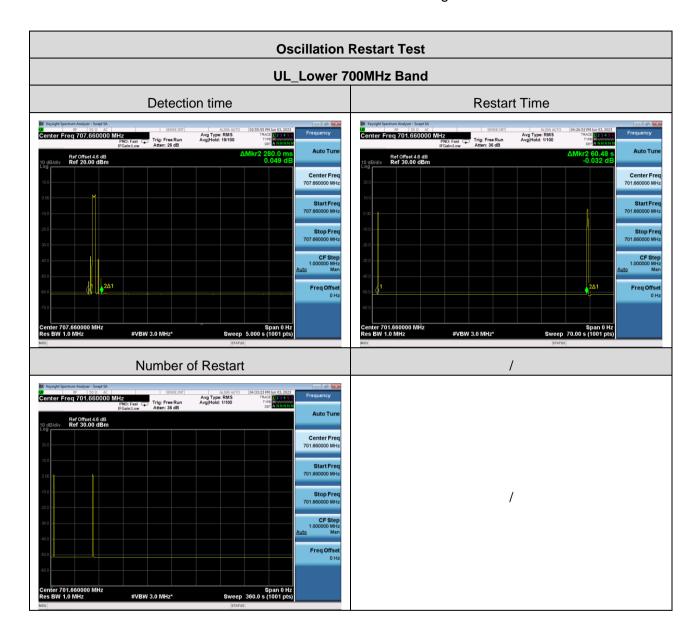


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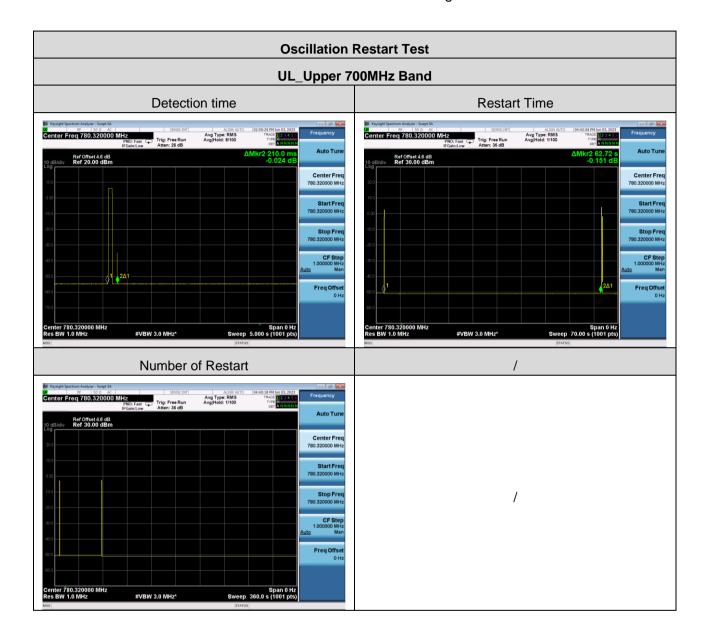


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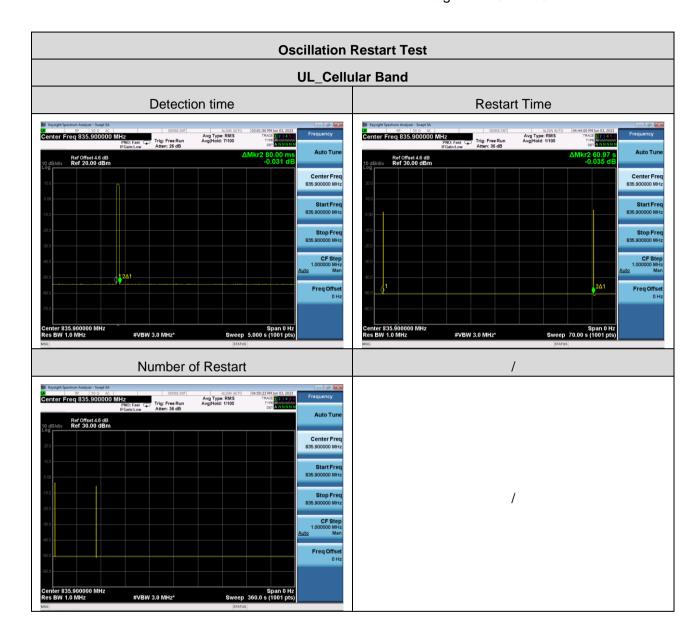


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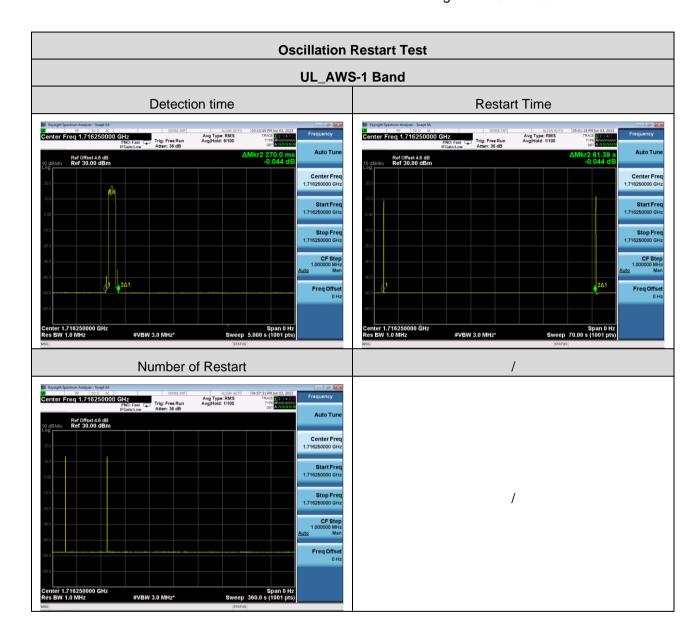


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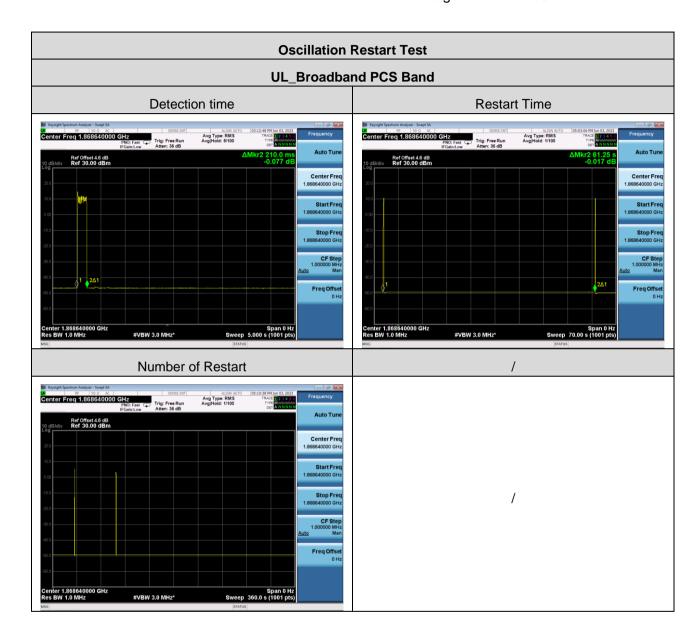


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### 12 Radiated spurious emissions

#### Radiated spurious emissions UL Lower 700MHz Band 30MHz~1GHz 200 Frequency (MHz) 200 Frequency (MHz) race: (Discrete) race: (Discrete) Read Correction Limit Read Correction Limit Factor Level Pol/Phase Freq Level Factor Level Line Limit Pol/Phase dBm dB dB dBm dB MHz dBm dBm MHz dBm -80.44 -78.40 -79.35 -78.90 -78.24 -78.81 77.321 -80.33 186.441 -79.55 337.216 -78.41 -9.30 -6.17 -1.94 -89.63 -85.72 -80.35 -19.00 -70.63 HORIZONTAL 102.719 -5.02 -83.42 -6.67 -86.02 -19.00 -19.00 -64.42 VERTICAL -19.00 -19.00 -66.72 -61.35 HORIZONTAL 239.147 -67.02 VERTICAL -79.74 -76.22 -19.00 -19.00 -60.74 -57.22 549.020 2.02 VERTICAL 470.523 -78.58 0.33 3.69 -78.25 -19.00 -59.25 HORIZONTAL 649 611 -77 98 -19.00 -55.29 HORTZONTAL 793.396 7.28 -71.53 -19.00 -52.53 VERTICAL



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#### Radiated spurious emissions UL Lower 700MHz Band Above 1GHz 10 Level (dBm) -120 1000 -120 1000 18000 2000 10000 1500 2000 5000 Frequency (MHz) 10000 18000 Frequency (MHz) race: (Discrete) race: (Discrete) Read Correction Limit Read Correction Limit Level Level Limit Pol/Phase Level Factor Level Line Pol/Phase dB dBm dBm dB MHz dBm dB dBm dBm MHz dB dBm -37.49 -35.27 -54.27 -49.84 1682.477 HORIZONTAL 1751.955 5.70 -54.57 VERTICAL -60.48 6.21 -19.00 -60.27 -19.00 -35.57 9.53 4.05 12.68 -30.84 -38.63 -59.81 -59.81 9.56 5.07 4.78 -50.25 -54.74 -57.73 -31.25 -35.74 2279.044 -59.37 -19.00 HORTZONTAL 2279.044 -19.00 VERTICAL 2694.998 4379.699 -51.51 5194.041 -64.19 -19.00 -32.51 HORIZONTAL -62.51 -19.00 -38.73 VERTICAL -63.14 20.25 -42.89 -19.00 -23.89 HORTZONTAL 6018.999 -63.77 19.55 -44.22 -19.00 -25.22 VERTICAL



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#### Radiated spurious emissions UL Upper 700MHz Band 30MHz~1GHz -100 -12030 -120<sub>30</sub> Frequency (MHz) race: (Discrete) race: (Discrete) Read Correction Limit Read Correction Limit Freq Level Factor Level Pol/Phase Pol/Phase Factor Level Limit Freq Level Line dBm dB dBm dB dBm MHz 50.586 -19.00 VERTICAL 47.826 -78.19 -19.00 -59.19 HORTZONTAL -5.66 -3.94 -2.23 -64.82 -67.56 HORIZONTAL HORIZONTAL -74.14 -79.34 -9.68 -7.22 96 436 -74 99 -79.66 -19.00 -60 66 VERTICAL -80.19 -78.88 VERTICAL VERTICAL 224.519 -86.56 -19.00 340.782 -81.11 -19.00 -62.11 366.823 -79.65 -1.28 -80.93 -19.00 -61.93 HORTZONTAL -56.59 -55.29 HORIZONTAL HORIZONTAL 588.905 -78.22 3.52 -74.70 -19.00 -55.70 VERTICAL -74.29 -19.00





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#### Radiated spurious emissions UL Upper 700MHz Band Above 1GHz 10 Level (dBm) -120<mark>1000</mark> -120 1000 1500 10000 5000 Frequency (MHz) Frequency (MHz) race: (Discrete) race: (Discrete) Read Correction Level Factor Level Over Limit Read Correction Limit Freq Pol/Phase Level Line Factor Level Pol/Phase dBm dB dBm MHz dBm dBm dB 1702.042 -61.62 -55.22 -19.00 -36.22 HORIZONTAL 2726.337 4482.150 -60.44 -63.98 4.28 5.64 -19.00 -19.00 -37.16 -39.34 HORTZONTAL -60.53 -63.32 -63.39 2312.219 9.62 -50.91 -19.00 -31.91 VERTICAL -19.00 -19.00 -58.46 -53.47 -43.86 3598.203 4.86 9.92 -39.46 -34.47 VERTICAL 5746.982 -63.33 13.66 -49.67 -19.00 -30.67 HORIZONTAL 6679.040 -62.69 20.25 -42.44 -19.00 -23.44 HORTZONTAL -63.99 -19.00 -24.86 6526.373 20.13 VERTICAL 6717.762 -62.01 20.83 -41.18 VERTICAL



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### Radiated spurious emissions UL Upper 700MHz Band 1559-1610MHz -80 -100 -100 Over Limit Pol/Phase Pol/Phase dBm dB dBm dBm dB dBm dBm dB dBm dB MHz 1566.55 1572.41 1581.90 1587.20 1599.15 1606.84 -70.46 -68.84 -70.60 -69.61 -69.46 -70.16 5.07 -65.39 -40.00 5.12 -63.72 -40.00 5.17 -65.43 -40.00 5.19 -64.42 -40.00 5.22 -64.24 -40.00 5.28 -64.88 -40.00 -68.45 -69.93 -71.04 -70.81 -70.98 -70.34 5.31 -63.14 -40.00 5.21 -64.72 -40.00 5.04 -66.00 -40.00 4.89 -65.92 -40.00 4.85 -66.13 -40.00 4.85 -65.49 -40.00 -25.39 -23.72 -25.43 -24.42 -24.24 -24.88 -23.14 -24.72 -26.00 -25.92 -26.13 -25.49 1572.71 HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL



## SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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#### Radiated spurious emissions UL Cellular Band 30MHz~1GHz 10 Level (dBm) -100 -120<sub>30</sub> -120<sub>30</sub> 100 Frequency (MHz) race: (Discrete) race: (Discrete) Read Correction Limit Read Correction Limit Level Line Limit Pol/Phase Factor Level Limit Pol/Phase Frea Level Line dB dBm dB dBm dBm MHz MHz 50.409 -86.89 -19.00 -67.89 VERTICAL -83.74 105.642 -74.37 -9.37 -19.00 -64.74 HORIZONTAL -72.93 -79.87 -6.76 -3.94 -79.69 -83.81 -78.65 -79.56 -77.82 -6.98 -1.70 0.41 -66.63 -62.26 227.691 -85.63 -19.00 HORTZONTAL 166.068 -19.00 -64.81 VERTICAL -81.26 -77.41 -19.00 -19.00 248.552 -80.22 -6.05 -86.27 -19.00 -67.27 VERTICAL -58.41 HORIZONTAL VERTICAL VERTICAL 739.661 -78.28 -73.71 -19.00 -54.71 HORTZONTAL 1.70 -76.36 -19.00



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#### Radiated spurious emissions UL Cellular Band Above 1GHz 10 Level (dBm) -120 1000 -120 1000 1500 2000 5000 Frequency (MHz) 10000 18000 1500 2000 5000 Frequency (MHz) 10000 18000 race: (Discrete) race: (Discrete) Read Correction Limit Read Correction Limit Level Factor Level Line Limit Pol/Phase Level Line Limit Pol/Phase dBm dBm dB dB dBm MHz dBm dB dBm dBm dB MHz 5.41 5.19 19.18 20.19 2633.397 -55.12 HORIZONTAL -51.72 -60.53 -19.00 -36.12 2114.052 -60.84 9.12 -19.00 -32.72 VERTICAL -51.72 -57.43 -59.48 -51.04 4456.315 -63.11 6001.626 -64.25 6855.063 -63.94 -57.92 -45.07 -43.75 4.57 -19.00 -38.92 HORTZONTAL 2855.380 -62.00 -19.00 -38.43 VERTICAL -26.07 -24.75 -19.00 HORIZONTAL 5330.928 -64.25 13.21 -19.00 -32.04 VERTICAL 10698.510 -68.78 23.84 -44.94 -19.00 -25.94 HORTZONTAL -61.82 20.72 -41.10 -19.00 -22.10 VERTICAL



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#### Radiated spurious emissions UL AWS-1 Band 30MHz~1GHz 10 Level (dBm) -100 -12030 -12030 100 50 100 200 Frequency (MHz) Frequency (MHz) race: (Discrete) race: (Discrete) Read Correction Freq Level Factor Level Over Limit Read Correction Level Factor I Limit Pol/Phase Freq Factor Level Line Pol/Phase Line dBm dB dB dB dBm MHz dBm 62.651 VERTICAL 65.343 -84.00 -19.00 -65.00 HORIZONTAL -4.26 -4.36 -2.94 86.503 171.393 -75.86 -78.85 -9.90 -6.16 -85.76 -85.01 -19.00 -19.00 -66.76 -66.01 HORTZONTAL 112 524 -79 42 -83 68 -19.00 -64 68 VERTICAL -80.57 -79.31 -19.00 -19.00 -65.93 -63.25 276.124 -82.25 VERTICAL 360.448 -79.62 -1.33 -80.95 -19.00 -61.95 HORIZONTAL 566.622 -79.06 1.82 -19.00 -58.24 HORTZONTAL 373.311 -78.72 -1.29 -80.01 -19.00 -61.01 VERTICAL





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## SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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#### Radiated spurious emissions UL AWS-1 Band Above 1GHz 10 Level (dBm) -120 1000 -120 1000 18000 1500 2000 5000 Frequency (MHz) 10000 1500 2000 5000 Frequency (MHz) 10000 18000 race: (Discrete) race: (Discrete) Read Correction Limit Read Correction Limit Level Line Limit Pol/Phase Level Factor Level Line Pol/Phase dBm dB dBm dBm dB dBm dB dBm MHz dB dBm MHz 2694.998 -59.70 -63.27 -55.17 -59.78 9.56 VERTICAL 4.53 -19.00 -36.17 HORIZONTAL 2279.044 -50.22 -19.00 -31.22 2.82 3.79 13.44 -39.37 -39.30 3577.463 4.23 -59.04 -19.00 -40.04 HORTZONTAL 3280.326 -61.19 -58.37 -19.00 VERTICAL -51.08 -44.88 -58.30 -50.54 6001.626 -64.06 19.18 -19.00 -25.88 HORIZONTAL 5408.529 -63.98 -19.00 -31.54 VERTICAL 6914.763 -63.35 19.89 -43.46 -19.00 -24.46 HORTZONTAL 6414.167 -63.20 19.53 -43.67 -19.00 -24.67 VERTICAL



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#### Radiated spurious emissions UL Broadband PCS Band 30MHz~1GHz -80 -100 -120<sub>30</sub> -12030 100 Frequency (MHz) race: (Discrete) race: (Discrete) Read Correction Limit Read Correction Limit Level Level Limit Pol/Phase Level Line Limit Pol/Phase dBm dB dB MHz dB dBm dBm dBm dB dBm dBm MHz -6.17 -67.15 -76.40 VERTICAL 68.872 -79.98 -86.15 -19.00 HORIZONTAL 87.725 -8.59 -3.93 -84.99 -19.00 -65.99 -81.43 -78.52 -78.41 -7.70 -4.83 0.23 -70.13 -64.35 -59.18 -80.97 -19.00 -19.00 -65.90 -66.61 141.826 -89.13 -19.00 HORTZONTAL 141.330 -84.90 VERTICAL -83.35 -78.18 -19.00 -19.00 -79.15 -78.24 -85.61 -79.02 VERTICAL VERTICAL HORIZONTAL 382.588 -0.78 -19.00 -60.02 1.28 -76.24 -19.00 -57.24 HORTZONTAL 2.40 -74.95 -19.00 -55.95 VERTICAL



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#### Radiated spurious emissions UL Broadband PCS Band Above 1GHz -120 1000 -120 18000 10000 Frequency (MHz) race: (Discrete) race: (Discrete) Read Correction Limit Pol/Phase Limit Level Limit Pol/Phase Level Factor Line Frea Level Factor Level Line dB 1382,262 -55.65 -36.65 HORIZONTAL 1447.688 -60.52 -55.01 -19.00 -36.01 VERTICAL -60.51 -62.15 9.31 -51.20 -59.91 -19.00 -19.00 -32.20 -40.91 HORIZONTAL HORIZONTAL 2400.753 3337.710 9.94 -52.38 -59.15 3186.869 -62.14 -19.00 -40.15 VERTICAL 5046.062 -63.63 11.50 -52.13 -19.00 -33.13 HORIZONTAL 5680.921 -64.41 15.39 -49.02 -19.00 -30.02 VERTICAL 6018.999 -64.01 19.17 -19.00 HORIZONTAL 20.11

### Remark:

- 1. Pre-test was performed at uplink and downlink path, the test result always keeps more than 20dB margin, The spurious emissions 9kHz to 30MHz were very low and not displayed in this report. Therefore, only show the worst-case data in this report.
- 2. Refer to clause 5 of this Appendix for more details about spurious emissions limit.

-- End of Appendix--



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