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Appendix -

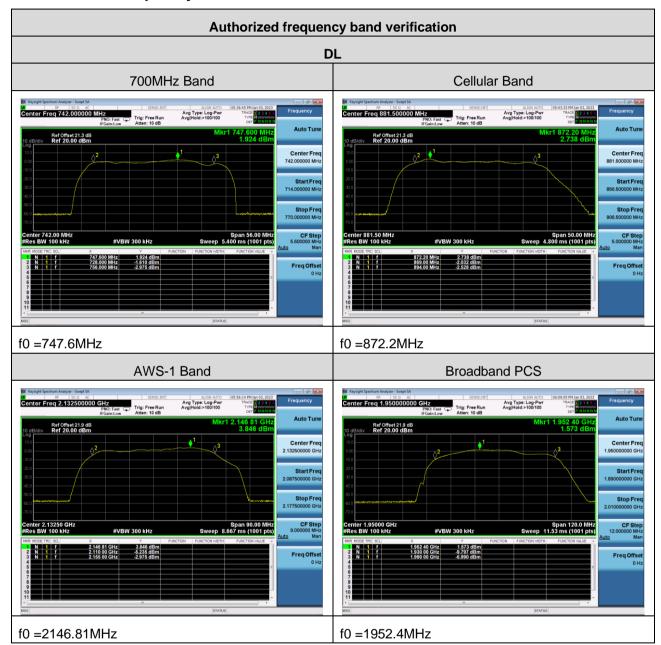
Test Data and Result for report GZCR221100149602





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1 Authorized frequency band verification





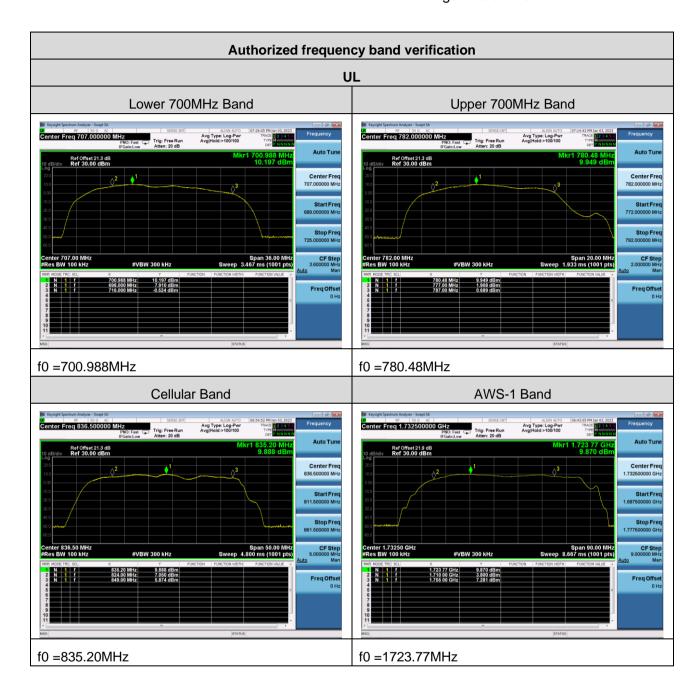
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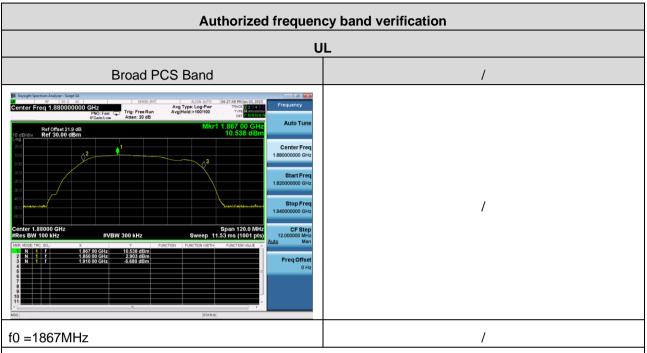


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Remark:

The frequency point f0 with the highest power level fall in the CMRS band under test with reset the spectrum analyser span to $2 \times$ the width of the CMRS band under test and adjust the tuned frequency of the signal generator to sweep $2 \times$ the width of the CMRS band using the sweep function. EUT is compiled the KDB 935210 D03 Signal Booster Measurements v04r04 Authorized frequency band verification test requirement.



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2 Maximum power

			Maximu	ım Output	Power			
Path	Band	Signal Type	Input Signal Level (dBm)		Conducted Output Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
	700MHz	AWGN	Pre-AGC	-58.5	4.1	13.1		PASS
	700101112	GSM	Pre-AGC	-56.0	6.7	15.7		PASS
	Cellular	AWGN	Pre-AGC	-58.0	5.8	14.8		PASS
	Celidial	GSM	Pre-AGC	-56.5	7.6	16.6		PASS
DL	AWS-1	AWGN	Pre-AGC	-66.0	4.9	13.9	≤17	PASS
	AVVS-1	GSM	Pre-AGC	-63.5	7.1	16.1		PASS
	Broadband PCS	AWGN	Pre-AGC	-65.0	5.5	14.5		PASS
		GSM	Pre-AGC	-63.5	7.3	16.3		PASS
	Lower 700MHz	AWGN	Pre-AGC	-44.5	18.1	27.1		PASS
		GSM	Pre-AGC	-42.5	20.4	29.4		PASS
	Upper	AWGN	Pre-AGC	-46.5	17.3	26.3		PASS
	700MHz	GSM	Pre-AGC	-44.0	19.6	28.6		PASS
	Cellular	AWGN	Pre-AGC	-46.5	17.2	26.2	Lower:17	PASS
UL	Celiulai	GSM	Pre-AGC	-43.5	20.1	29.1	Upper:30	PASS
	AWS-1	AWGN	Pre-AGC	-53.5	17.3	26.3		PASS
	7,000 1	GSM	Pre-AGC	-51.0	19.8	28.8		PASS
	Broadband	AWGN	Pre-AGC	-53.5	17.3	26.3		PASS
	PCS	GSM	Pre-AGC	-50.5	20.4	29.4		PASS

Remark:

- 1. The test frequency fo was determined in Authorized frequency band verification test in this report.
- 2. ERIP = Conducted Output Power + Antenna Gain Cable loss, according to the declaration from the manufacturer, the maximum antenna gain is 10dBi and the minimum cable loss is 1dB.



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	Maximum transmitter test input levels										
Path	Band	Signal Type	Input Power (dBm)	Conducted output power (dBm)	Verdict						
	700MHz	AWGN	-29.5	3.8	PASS						
	7 001VII 12	GSM	-28.5	6.1	PASS						
	Cellular	AWGN	-28.0	5.1	PASS						
	Celiulai	GSM	-27.5	7.0	PASS						
DL	AWS-1	AWGN	-38.0	4.3	PASS						
	AVV5-1	GSM	-34.5	6.6	PASS						
	Broadband PCS	AWGN	-36.5	5.4	PASS						
		GSM	-35.0	7.5	PASS						
	Lower 700MHz	AWGN	-15.5	17.5	PASS						
		GSM	-14.0	19.0	PASS						
	Upper	AWGN	-18.0	17.7	PASS						
	700MHz	GSM	-16.0	20.3	PASS						
	Cellular	AWGN	-19.0	16.6	PASS						
UL	Celiulai	GSM	-16.5	19.7	PASS						
	AWS-1	AWGN	-27.0	15.3	PASS						
	AVVO-1	GSM	-22.5	18.9	PASS						
	Broadband	AWGN	-26.5	16.6	PASS						
	PCS	GSM	-23.0	19.7	PASS						

Remark:

- 1. For downlink, the EUT went into shutdown mode at the maximum input level (-20dBm) indicated in 5.5 of KDB 935210 D03. The test data presented on the table is at an input level 1dB less than that found to cause the shutdown, where the input power is much greater than 10dB above AGC.
- 2. For uplink, the EUT went into shutdown mode at the maximum input level (0dBm) indicated in 5.5 of KDB 935210 D03. The test data presented on the table is at an input level 1dB less than that found to cause the shutdown, where the input power is much greater than 10dB above AGC.



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3 Maximum booster gain computation

			Max	imum Ga	in			
Path	Band	Signal Type	Input Signa (dBn		Conducted Output Power (dBm)	Gain (dB)	Limit (dB)	Verdict
	700MHz	AWGN	Pre-AGC	-58.5	4.1	62.6	100 10	PASS
	7 001011 12	GSM	Pre-AGC	-56.0	6.7	62.7	≤63.49	PASS
	Cellular	AWGN	Pre-AGC	-58.0	5.8	63.8		PASS
	Celidial	GSM	Pre-AGC	-56.5	7.6	64.1	≤64.95	PASS
DL	AWS-1	AWGN	Pre-AGC	-66.0	4.9	70.9	≤71.27	PASS
	AVVO-1	GSM	Pre-AGC	-63.5	7.1	70.6		PASS
	Broadband PCS	AWGN	Pre-AGC	-65.0	5.5	70.5	≤71.98	PASS
		GSM	Pre-AGC	-63.5	7.3	70.8		PASS
	Lower 700MHz	AWGN	Pre-AGC	-44.5	18.1	62.6	100 40	PASS
		GSM	Pre-AGC	-42.5	20.4	62.9	≤63.49	PASS
	Upper	AWGN	Pre-AGC	-46.5	17.3	63.8		PASS
	700MHz	GSM	Pre-AGC	-44.0	19.6	63.6	≤64.36	PASS
	Cellular	AWGN	Pre-AGC	-46.5	17.2	63.7		PASS
UL	Celiulai	GSM	Pre-AGC	-43.5	20.1	63.6	≤64.95	PASS
	AWS-1	AWGN	Pre-AGC	-53.5	17.3	70.8	174.07	PASS
	AVVO-1	GSM	Pre-AGC	-51.0	19.8	70.8	≤71.27	PASS
	Broadband	AWGN	Pre-AGC	-53.5	17.3	70.8		PASS
	PCS	GSM	Pre-AGC	-50.5	20.4	70.9	≤71.98	PASS



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	Equivalent Uplink and Downlink Gain											
Band	Signal Type	Uplink Gain (dB)	Downlink Gain (dB)	UL vs DL Gain (dB)	Limit (dB)	Verdict						
Lower	AWGN	62.6	62.6	0.0		PASS						
700MHz	GSM	62.9	62.7	0.2		PASS						
Upper	AWGN	63.8	62.6	1.2		PASS						
700MHz	GSM	63.6	62.7	0.9	0.9							
Cellular	AWGN	63.7	63.8	0.1	10	PASS						
Celiulai	GSM	63.6	64.1	0.5	≤9	PASS						
AWS-1	AWGN	70.8	70.9	0.1		PASS						
AVV3-1	GSM	70.8	70.6	0.2		PASS						
Broadband	AWGN	70.8	70.5	0.3		PASS						
PCS	GSM	70.9	70.8	0.1		PASS						



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4 Intermodulation product

Intermodulation product										
Path	Band	In	put Signal	Worst Test Level (dBm)	Limit (dBm)	Verdict				
	7001411	two CW	Pre-AGC	-31.58		PASS				
	700MHz	signals	10dB above AGC	-31.25	≤-19	PASS				
		two CW	Pre-AGC	-35.20		PASS				
	Cellular	signals	10dB above AGC	-35.22	≤-19	PASS				
DL		two CW	Pre-AGC	-31.12		PASS				
	AWS-1	signals	10dB above AGC	-30.62	≤-19	PASS				
	Broadband PCS	two CW signals	Pre-AGC	-36.36		PASS				
			10dB above AGC	-36.47	≤-19	PASS				
	Lower 700MHz	Lower	two CW	Pre-AGC	-22.17		PASS			
		signals	10dB above AGC	-21.68	≤-19	PASS				
	Upper	two CW	Pre-AGC	-26.28		PASS				
	700MHz	signals	10dB above AGC	-24.95	≤-19	PASS				
	Cellular	two CW	Pre-AGC	-31.34		PASS				
UL	Celiulai	signals	10dB above AGC	-31.40	≤-19	PASS				
	AWS-1	two CW	Pre-AGC	Pre-AGC -24.53		PASS				
	AVVO-1	signals	10dB above AGC	-24.29	≤-19	PASS				
	Broadband	two CW	Pre-AGC	-31.66		PASS				
	PCS	signals	10dB above AGC	-31.61	≤-19	PASS				

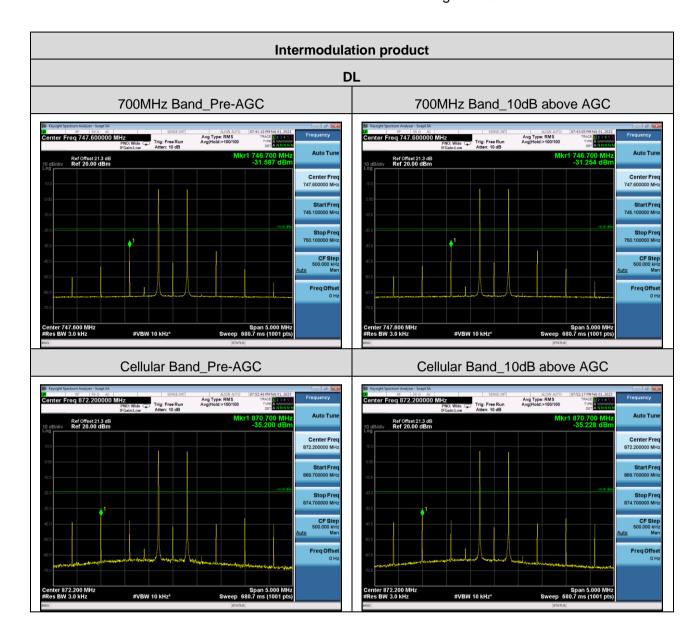


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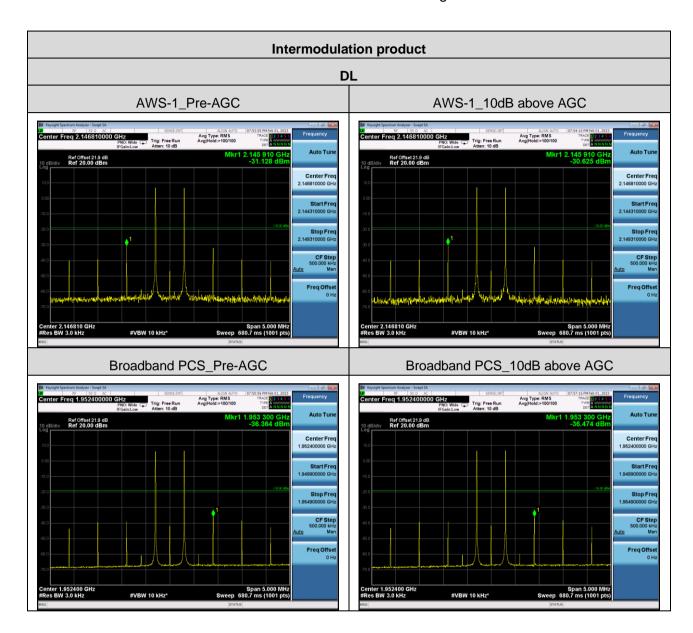


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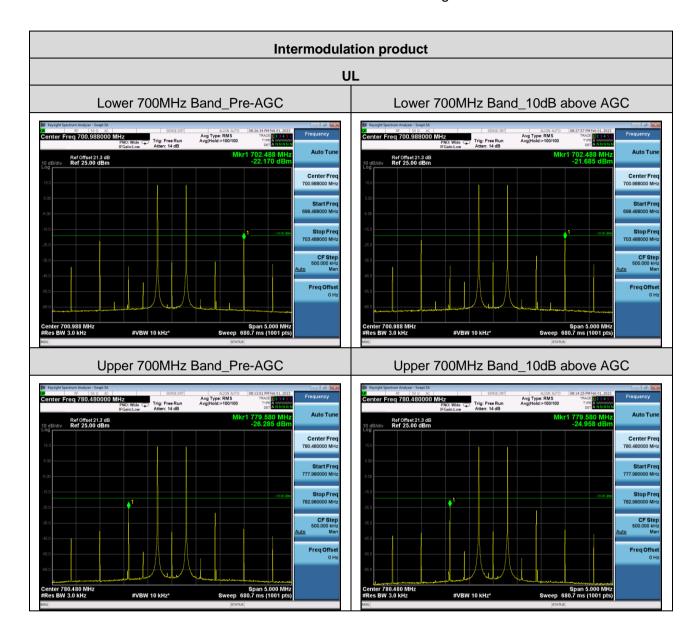
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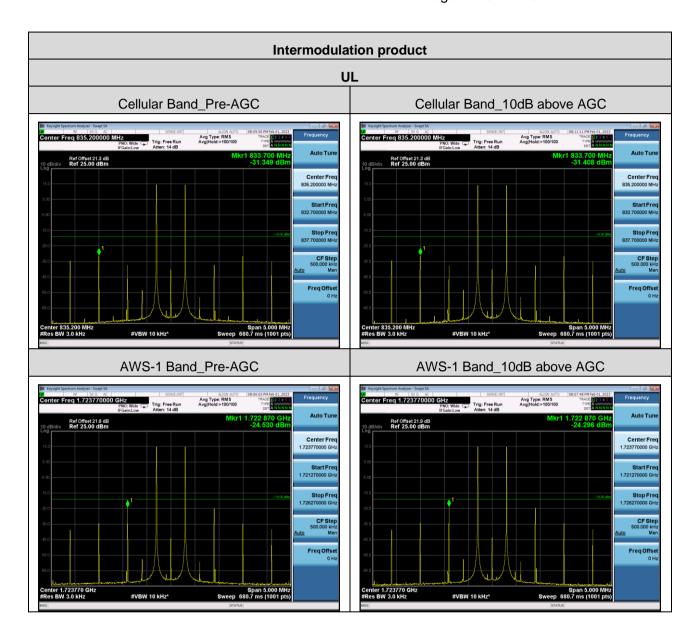
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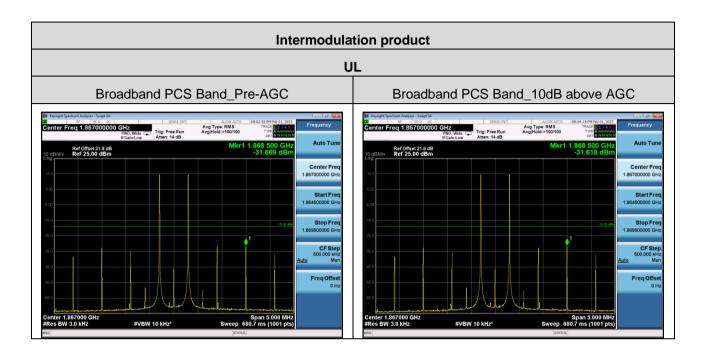
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5 Out-of-band emissions

			Out-of-l	oand emissions			
Path	Band		Input S		Worst Test Level (dBm)	Limit (dBm)	Verdict
			Lower	Pre-AGC	-29.98		PASS
		GSM	Edge	10dB above AGC	-30.62	≤-19	PASS
		GSIVI	Upper	Pre-AGC	-30.53	≥-19	PASS
			Edge	10dB above AGC	-30.68		PASS
			Lower	Pre-AGC	-38.74		PASS
		1.25MHz	Edge	10dB above AGC	-38.69	≤-19	PASS
	700MHz	AWGN	Upper	Pre-AGC	-42.44	2-19	PASS
			Edge	10dB above AGC	-42.68		PASS
		4.1MHz AWGN		Lower Pre-AGC -38.48	-38.48	- ≤-19	PASS
			Edge	10dB above AGC	-38.02		PASS
			Upper Edge	Pre-AGC	-43.04		PASS
				10dB above AGC	-42.05		PASS
DL			Lower	Pre-AGC	-29.06	≤-19	PASS
		GSM	Edge	10dB above AGC	-29.25		PASS
		GSIVI	Upper	Pre-AGC	-30.05		PASS
			Edge	10dB above AGC	-29.61		PASS
			Lower	Pre-AGC	-35.48		PASS
		1.25MHz	Edge	10dB above AGC	-34.25	< 10	PASS
	Cellular	AWGN	Upper	Pre-AGC	-40.20	≤-19	PASS
			Edge	10dB above AGC	-39.80		PASS
			Lower	Pre-AGC	-37.30	- ≤-19	PASS
		4.1MHz	Edge	10dB above AGC	-36.35		PASS
		AWGN	Upper	Pre-AGC	-39.98		PASS
			Edge	10dB above AGC	-39.54		PASS



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	Out-of-band emissions									
Path	Band		Input	t Signal	Worst Test Level (dBm)	Limit (dBm)	Verdict			
			Lower	Pre-AGC	-32.34		PASS			
		GSM	Edge	10dB above AGC	-32.75	≤-29 ¹	PASS			
		GSIVI	Upper	Pre-AGC	-33.44	3-29	PASS			
			Edge	10dB above AGC	-33.26		PASS			
			Lower	Pre-AGC	-24.61		PASS			
		1.25MHz	Edge	10dB above AGC	-25.42	≤-19	PASS			
	AWS-1	AWGN	Upper	Pre-AGC	-24.41	3-19	PASS			
			Edge	10dB above AGC	-24.81		PASS			
		4.1MHz AWGN		Lower	Pre-AGC	-21.60		PASS		
			Edge	10dB above AGC	-22.14	≤-19	PASS			
			Upper Edge	Pre-AGC	-21.24		PASS			
				10dB above AGC	-20.57		PASS			
DL		0014	Lower	Pre-AGC	-32.75	- ≤-29 ¹	PASS			
			Edge	10dB above AGC	-32.88		PASS			
		GSM	Upper	Pre-AGC	-33.34		PASS			
			Edge	10dB above AGC	-33.32		PASS			
			Lower	Pre-AGC	-26.93		PASS			
	Broadband	1.25MHz	Edge	10dB above AGC	-27.15	≤-19	PASS			
	PCS	AWGN	Upper	Pre-AGC	-24.67	≥-19	PASS			
			Edge	10dB above AGC	-24.13		PASS			
			Lower	Pre-AGC	-24.83	- ≤-19	PASS			
		4.1MHz	Edge	10dB above AGC	-24.44		PASS			
		AWGN	Upper	Pre-AGC	-22.83		PASS			
			Edge	10dB above AGC	-23.54		PASS			



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	Out-of-band emissions									
Path	Band		Input	t Signal	Worst Test Level (dBm)	Limit (dBm)	Verdict			
			Lower	Pre-AGC	-26.46	- ≤-19	PASS			
		GSM	Edge	10dB above AGC	-26.71		PASS			
		GSIVI	Upper	Pre-AGC	-27.17	2-19	PASS			
			Edge	10dB above AGC	-26.76		PASS			
			Lower	Pre-AGC	-28.33		PASS			
	Lower	1.25MHz	Edge	10dB above AGC	-27.96	≤-19	PASS			
	700MHz	AWGN	Upper	Pre-AGC	-26.32	≥-19	PASS			
			Edge	10dB above AGC	-27.28		PASS			
		4.1MHz AWGN			Lower	Pre-AGC	-24.03		PASS	
			Edge	10dB above AGC	-24.39	<u>≤</u> -19	PASS			
			Upper Edge	Pre-AGC	-30.71		PASS			
				10dB above AGC	-30.10		PASS			
UL		0014	Lower	Pre-AGC	-32.00	- ≤-19	PASS			
			Edge	10dB above AGC	-31.84		PASS			
		GSM	Upper	Pre-AGC	-32.01		PASS			
			Edge	10dB above AGC	-32.40		PASS			
			Lower	Pre-AGC	-46.35		PASS			
	Upper	1.25MHz	Edge	10dB above AGC	-47.20	≤-19	PASS			
	700MHz	AWGN	Upper	Pre-AGC	-24.97	≥-19	PASS			
			Edge	10dB above AGC	-24.42		PASS			
		4.1MHz	Lower	Pre-AGC	-39.70	- ≤-19	PASS			
			Edge	10dB above AGC	-39.95		PASS			
		AWGN	Upper	Pre-AGC	-42.56		PASS			
			Edge		10dB above AGC		-42.36	PASS		



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	Out-of-band emissions									
Path	Band		Inpu	t Signal	Worst Test Level (dBm)	Limit (dBm)	Verdict			
			Lower	Pre-AGC	-30.03		PASS			
		GSM	Edge	10dB above AGC	-29.57	- 10	PASS			
		GSIVI	Upper	Pre-AGC	-30.65	≤-19	PASS			
			Edge	10dB above AGC	-29.87		PASS			
			Lower	Pre-AGC	-29.82		PASS			
		1.25MHz	Edge	10dB above AGC	-31.09	≤-19	PASS			
	Cellular	AWGN	Upper	Pre-AGC	-27.59	2-19	PASS			
			Edge	10dB above AGC	-28.18		PASS			
			Lower	Pre-AGC	-41.23		PASS			
		4.1MHz AWGN	Edge	10dB above AGC	-40.89	≤ -19	PASS			
			Upper Edge	Pre-AGC	-40.11		PASS			
				10dB above AGC	-39.96		PASS			
UL			Lower	Pre-AGC	-32.67	- ≤-29 ¹	PASS			
		GSM	Edge	10dB above AGC	-32.32		PASS			
		GSIVI	Upper	Pre-AGC	-33.10		PASS			
			Edge	10dB above AGC	-32.32		PASS			
			Lower	Pre-AGC	-20.96		PASS			
		1.25MHz	Edge	10dB above AGC	-20.04	<i>-</i> 10	PASS			
	AWS-1	AWGN	Upper	Pre-AGC	-21.12	≤-19	PASS			
			Edge	10dB above AGC	-20.62		PASS			
			Lower	Pre-AGC	-23.06	≤-19	PASS			
		4.1MHz	Edge	10dB above AGC	-22.69		PASS			
		AWGN	Upper	Pre-AGC	-20.98		PASS			
			Edge	10dB above AGC	-20.43		PASS			



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	Out-of-band emissions									
Path	Band		Inpu	t Signal	Worst Test Level (dBm)	Limit (dBm)	Verdict			
			Lower	Pre-AGC	-32.50		PASS			
	GSM	Edge	10dB above AGC	-32.28	≤-29 ¹	PASS				
	GSIVI	Upper	Pre-AGC	-34.31	≥-29	PASS				
		Edge	10dB above AGC	-33.82		PASS				
		nd 1.25MHz AWGN	Lower Edge	Pre-AGC	-23.42		PASS			
	Broadband			1.25MHz	1.25MHz	1.25MHz	Edge	ge 10dB above AGC	-22.72	≤-19
UL	PCS		Upper	Pre-AGC	-22.08	- ≤-19	PASS			
			Edge	10dB above AGC	-22.57		PASS			
			Lower	Pre-AGC	-20.99		PASS			
		4.1MHz AWGN	Edge	10dB above AGC	-21.58		PASS			
			Upper	Pre-AGC	-22.20		PASS			
			Edge	10dB above AGC	-21.58		PASS			

Remark:

² 20.21(e)(8)(i)(E) Out of Band Emission Limits:

Booster out of band emissions (OOBE) shall be at least 6 dB below the FCC's mobile emission limits for the supported bands of operation.

27.53(c)

For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the 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, in accordance with the following:

- 1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB.
- So, the limit = $\{P [43 + 10 \log (P)]\} 6dB = -19dBm$
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB.
- So, the limit = $\{P [43 + 10 \log (P)]\} 6dB = -19dBm$
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.
- So, the limit = $\{P [76 + 10 \log (P)]\} 6dB = -52dBm$



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¹ To improve measurement accuracy, sensitivity and efficiency, the measured RBW (= 100kHz) is different From the reference RBW (= 1MHz, stated in KDB 935210), the measured value shall be increased by 10lg(1000/100)= 10dB. The limit was calculated to show -29dBm to determine the test result conveniently.



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27.53(g)

For operations in the 600 MHz band and the 698-746 MHz band, 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.

So, the limit = $\{P - [43 + 10 \log (P)]\} - 6dB = -19dBm$

27.53(h)

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.

So, the limit = $\{P - [43 + 10 \log (P)]\} - 6dB = -19dBm$

22.917

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

So, the limit = $\{P - [43 + 10 \log (P)]\} - 6dB = -19dBm$

24.238

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

So, the limit = $\{P - [43 + 10 \log (P)]\} - 6dB = -19dBm$



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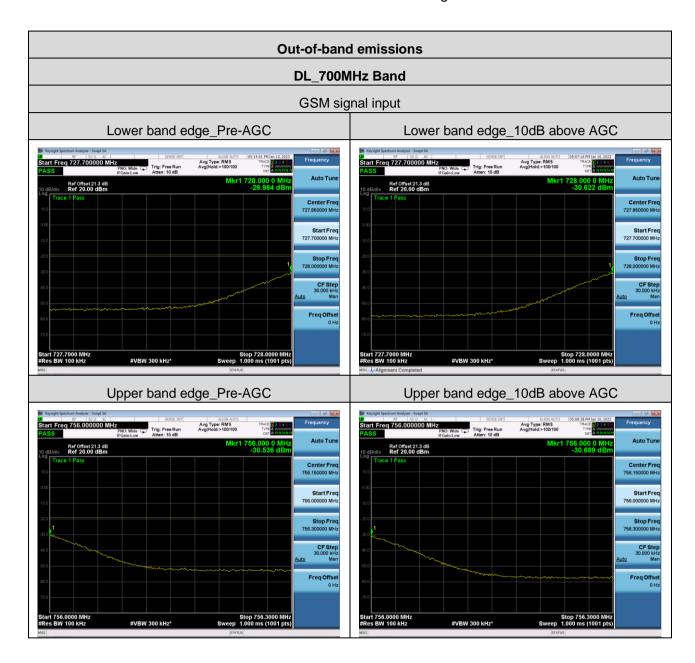
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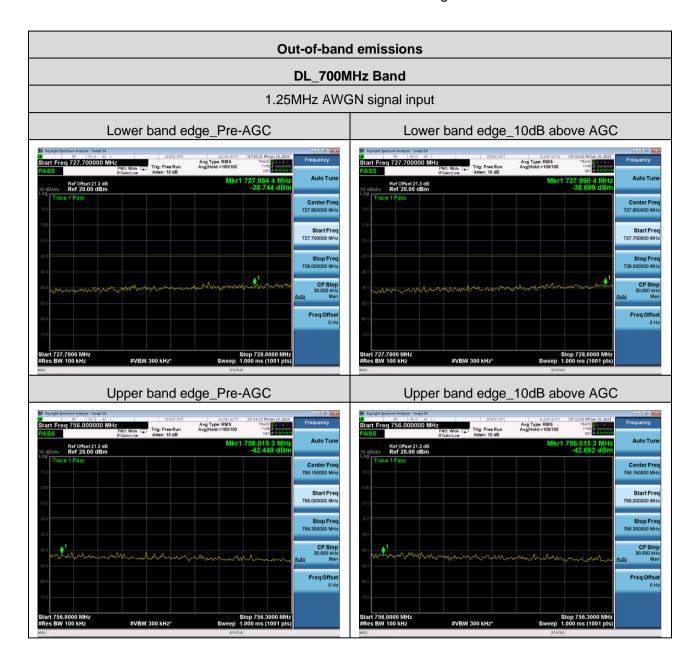


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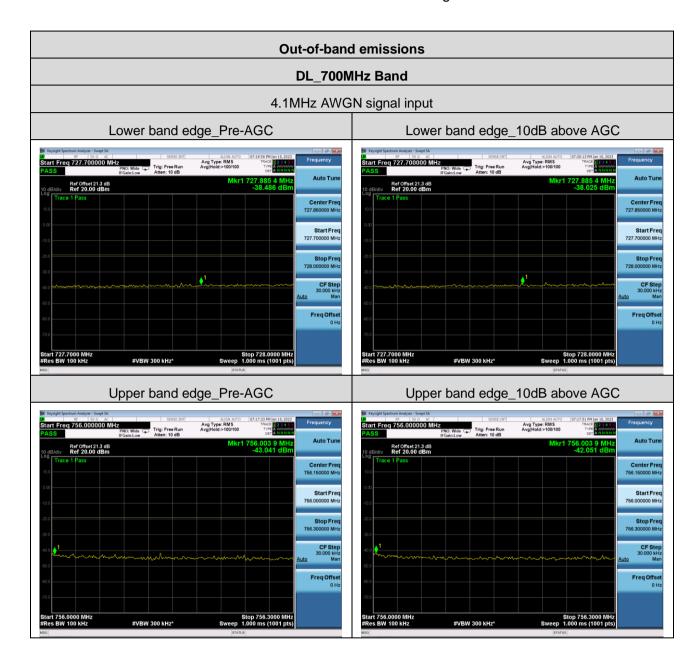


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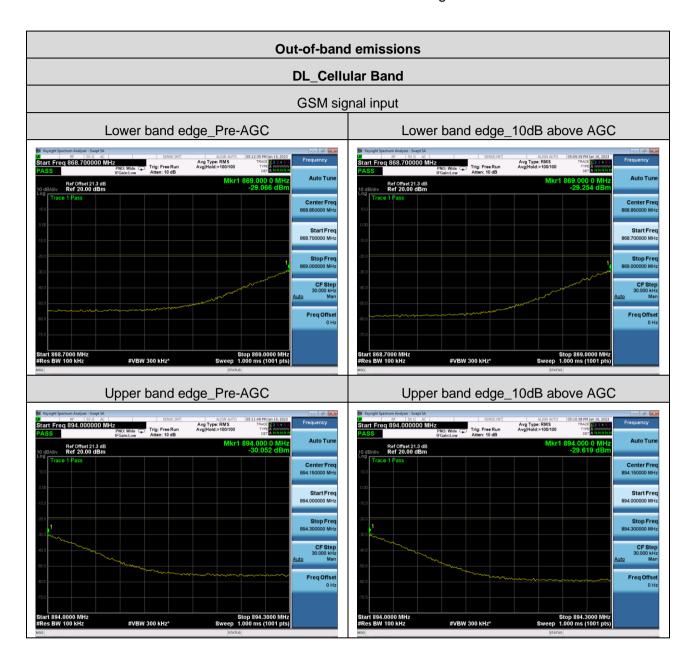


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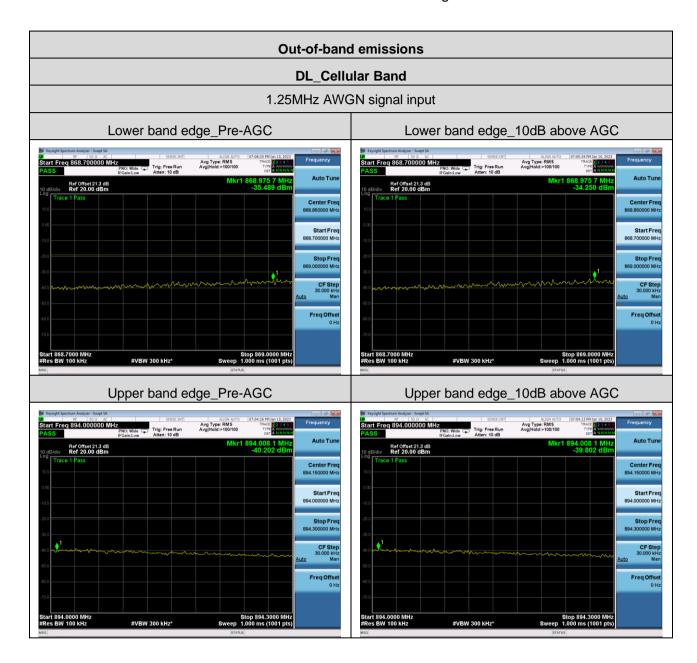


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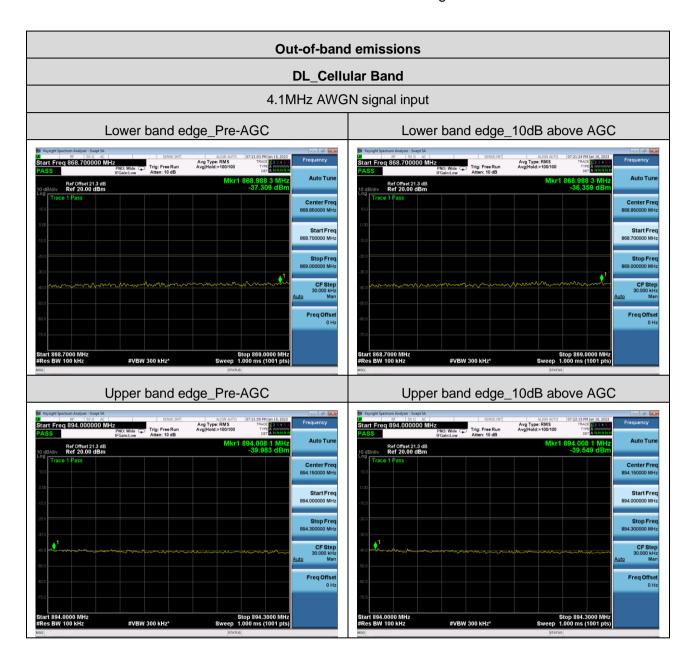


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