Appendix A-RF Output Power and Amplifier Gain

Test Data:

TDD LTE Band 48											
Mode	Operation Band	Frequency F_0 (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Ant 1 Conducted Power (dBm)	Ant 1 Conducted Power (dBm/ 10MHz)	Max E.I.R.P (dBm)	Max E.I.R.P (dBm/ 10MHz)	Max E.I.R.P Limit (dBm/ 10MHz)	Gain (dB)
SISO Mode											
Downlink	3550MHz ~3700MHz	3598.375 MHz	AWGN	Pre-AGC	0	13.30	13.42	16.30	16.42	23	13.30
				3dB Above AGC	3	13.39	13.44	16.39	16.44	23	/
		3598.375 MHz	GSM	Pre-AGC	0	13.77	13.84	16.77	16.84	23	13.77
				3dB Above AGC	3	13.93	13.97	16.93	16.97	23	/
Remark: Max EIRP of the EUT is 16.97dBm/10MHz which is less than the EIRP limit of which is 23dBm/10MHz. The EUT supports SISO working mode. Each antenna can be used as SISO working port. We only present the worst result, the test data of ant 1 port. This EUT supports 4*4 MIMO. For MIMO mode the output signals are considered completely uncorrelated, so the antenna gain is 3dBi.											

Mode	Opera -tion Band	Frequ ency F_0 (MHz)	Sig nal Typ e	Signal Level (dBm)	Inp ut Po wer (dB m)	Con ducted Power (dBm)				Conducted Power (dBm/10MHz)				Total Cond ucted Powe r (dBm)	Max E.I.R. P (dBm)	Max E.I.R. P (dBm / 10M Hz)	Max E.I. R.P Limit (dB m/ 10M Hz)	G ai n (d Bi)
						Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4					
Down -link	3550 ~3700 MHz	3598. 375 MHz	AW GN	Pre-AGC	0	13.30	13.48	13.29	13.12	13.37	13.54	13.31	13.42	19.32	22.32	22.43	23	/
				3dB Above AGC	3	13.39	13.42	13.39	13.37	13.43	13.46	13.42	13.42	19.41	22.41	22.45	23	/
		3598. 375 MHz	GS M	Pre-AGC	0	13.77	13.73	13.82	13.76	13.83	13.78	13.86	13.83	19.79	22.79	22.85	23	/
				3dB Above AGC	3	13.93	13.95	13.99	13.85	13.95	13.98	13.99	13.89	19.95	22.95	22.97	23	/
Remark: Max EIRP of the EUT is 22.97dBm/10MHz which is less than the EIRP limit of which is 23dBm/10MHz. The EUT supports SISO working mode. Each antenna can be used as SISO working port. We only present the worst result, the test data of ant 1 port. This EUT supports 4*4 MIMO. For MIMO mode the output signals are considered completely uncorrelated, so the antenna gain is 3dBi.																		

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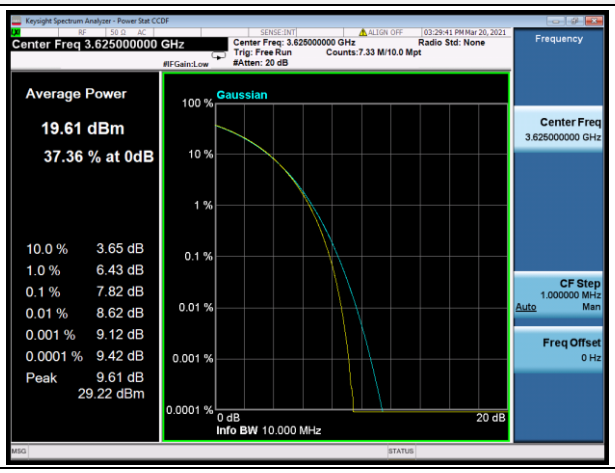
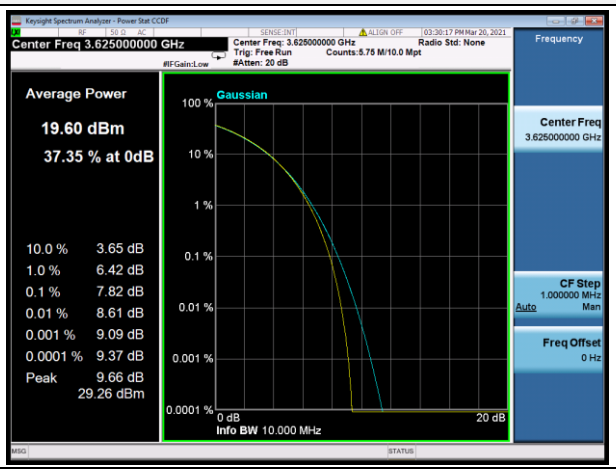
Mode	Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	PAPR (dB)	Limit (dB)
TDD LTE Band 48							
Downlink	3550MHz ~3700MHz	3625.0MHz	AWGN	Pre-AGC	0	7.82	13.0
				3dB Above AGC	3	7.82	13.0
		3625.0MHz	GSM	Pre-AGC	0	0.10	13.0
				3dB Above AGC	3	0.09	13.0

FDD LTE Band 48 _ AWGN

Pre-AGC

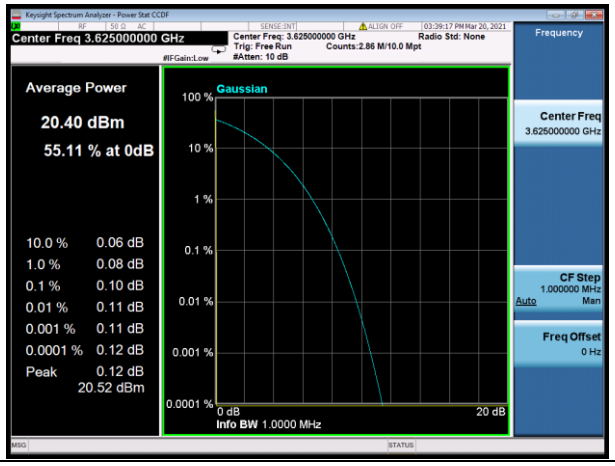


3dB Above AGC

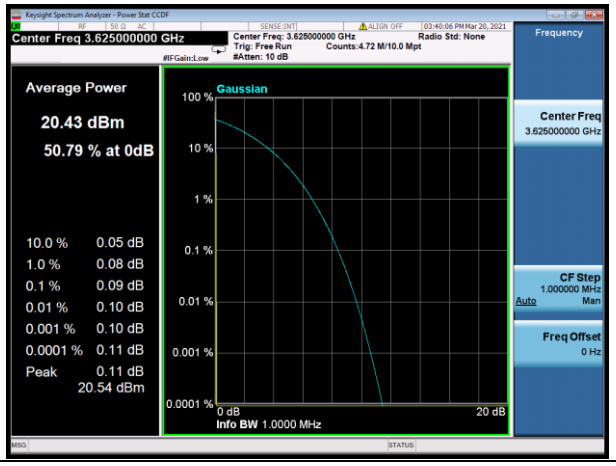


FDD LTE Band 48 _ GSM

Pre-AGC



3dB Above AGC



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