

Appendix F: Test Data for E-UTRA Band 4

Product Name: Smartphone

Trade Mark: Win

Test Model: M5

Environmental Conditions

Temperature:	23.4° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	LIHUAN
Supervised by:	Tom.Liu

F.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.33	22.48	PASS
		1	3	23.16	22.41	PASS
		1	5	22.97	22.21	PASS
		3	0	23.00	22.06	PASS
		3	2	22.94	21.97	PASS
		3	3	22.82	21.86	PASS
		6	0	22.54	21.68	PASS
	MCH	1	0	23.33	22.18	PASS
		1	3	23.32	22.15	PASS
		1	5	23.35	21.84	PASS
		3	0	23.22	22.29	PASS
		3	2	23.21	22.27	PASS
		3	3	23.10	22.15	PASS
		6	0	22.02	21.21	PASS
	HCH	1	0	23.75	22.38	PASS
		1	3	23.92	22.56	PASS
		1	5	23.77	22.46	PASS
		3	0	23.50	22.62	PASS
		3	2	23.63	22.72	PASS
		3	3	23.63	22.64	PASS
		6	0	22.46	21.55	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.91	22.20	PASS
		1	7	22.67	22.01	PASS
		1	14	22.29	21.61	PASS
		8	0	22.52	21.83	PASS
		8	4	22.43	21.68	PASS
		8	7	22.28	21.48	PASS
		15	0	22.43	21.54	PASS
	MCH	1	0	23.24	22.62	PASS
		1	7	23.23	22.92	PASS
		1	14	23.12	23.05	PASS
		8	0	22.22	21.03	PASS
		8	4	22.20	21.01	PASS
		8	7	22.07	20.89	PASS
		15	0	22.07	21.08	PASS
	HCH	1	0	23.29	22.29	PASS
		1	7	23.72	22.87	PASS
		1	14	23.87	22.98	PASS
		8	0	22.32	21.17	PASS
		8	4	22.59	21.37	PASS
		8	7	22.45	21.39	PASS
		15	0	22.34	21.29	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.68	22.14	PASS
		1	12	22.27	21.79	PASS
		1	24	21.95	21.42	PASS
		12	0	22.39	21.64	PASS
		12	6	22.20	21.47	PASS
		12	13	21.96	21.24	PASS
		25	0	22.14	21.32	PASS
	MCH	1	0	23.11	22.39	PASS
		1	12	23.44	22.28	PASS
		1	24	23.10	22.16	PASS
		12	0	22.13	21.24	PASS
		12	6	22.14	21.27	PASS
		12	13	22.14	21.21	PASS
		25	0	22.13	21.11	PASS
	HCH	1	0	23.19	22.49	PASS
		1	12	24.06	23.05	PASS
		1	24	24.54	23.08	PASS
		12	0	22.35	21.45	PASS
		12	6	22.55	21.69	PASS
		12	13	22.62	21.76	PASS
		25	0	22.45	21.41	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.08	21.45	PASS
		1	24	22.29	21.65	PASS
		1	49	22.23	21.65	PASS
		25	0	22.03	21.14	PASS
		25	12	22.12	21.21	PASS
		25	25	22.13	21.26	PASS
		50	0	22.04	21.16	PASS
	MCH	1	0	22.59	22.00	PASS
		1	24	23.52	22.93	PASS
		1	49	22.92	22.89	PASS
		25	0	22.12	21.24	PASS
		25	12	22.17	21.22	PASS
		25	25	22.03	20.95	PASS
		50	0	22.06	21.10	PASS
	HCH	1	0	22.15	21.63	PASS
		1	24	23.26	22.80	PASS
		1	49	23.74	23.26	PASS
		25	0	22.31	21.20	PASS
		25	12	22.55	21.57	PASS
		25	25	22.56	21.72	PASS
		50	0	22.31	21.39	PASS

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	21.77	21.09	PASS
		1	37	22.48	21.87	PASS
		1	74	22.96	22.32	PASS
		37	0	21.78	20.91	PASS
		37	18	22.35	21.46	PASS
		37	38	22.94	22.04	PASS
		75	0	22.34	21.47	PASS
	MCH	1	0	22.70	22.11	PASS
		1	37	23.38	22.81	PASS
		1	74	23.31	22.01	PASS
		37	0	22.30	21.41	PASS
		37	18	22.20	21.32	PASS
		37	38	21.96	21.03	PASS
		75	0	22.13	21.26	PASS
	HCH	1	0	23.06	22.30	PASS
		1	37	22.73	22.16	PASS
		1	74	23.50	22.88	PASS
		37	0	22.06	21.04	PASS
		37	18	22.30	21.30	PASS
		37	38	22.53	21.61	PASS
		75	0	22.27	21.51	PASS

Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	21.32	20.52	PASS
		1	49	23.19	22.39	PASS
		1	99	22.06	21.22	PASS
		50	0	21.79	20.92	PASS
		50	25	22.86	22.01	PASS
		50	50	22.74	21.90	PASS
		100	0	22.47	21.59	PASS
	MCH	1	0	22.71	21.91	PASS
		1	49	23.40	22.49	PASS
		1	99	22.60	21.15	PASS
		50	0	22.43	21.45	PASS
		50	25	22.18	21.29	PASS
		50	50	21.95	21.03	PASS
		100	0	22.17	21.28	PASS
	HCH	1	0	23.02	21.62	PASS
		1	49	22.86	21.76	PASS
		1	99	23.21	22.45	PASS
		50	0	22.00	21.07	PASS
		50	25	22.09	21.09	PASS
		50	50	22.36	21.45	PASS
		100	0	22.24	21.27	PASS

F.2 Peak-to-Average Ratio

Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.27	<13	PASS
	MCH	5.26	<13	PASS
	HCH	5.17	<13	PASS
16QAM	LCH	6	<13	PASS
	MCH	6.08	<13	PASS
	HCH	5.97	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.28	<13	PASS
	MCH	5.28	<13	PASS
	HCH	5.21	<13	PASS
16QAM	LCH	6.19	<13	PASS
	MCH	6.13	<13	PASS
	HCH	6.13	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.54	<13	PASS
	MCH	5.27	<13	PASS
	HCH	5.23	<13	PASS
16QAM	LCH	6.15	<13	PASS
	MCH	6.08	<13	PASS
	HCH	6.02	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.62	<13	PASS
	MCH	5.25	<13	PASS
	HCH	5.27	<13	PASS
16QAM	LCH	6.25	<13	PASS
	MCH	6.02	<13	PASS
	HCH	6.04	<13	PASS

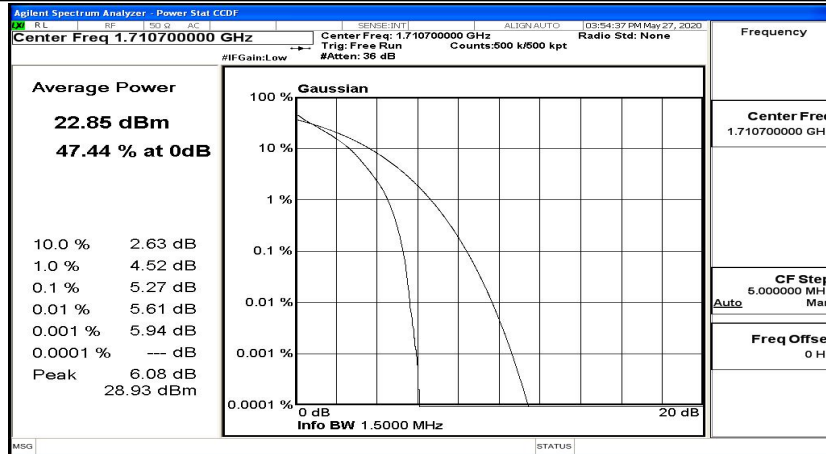
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.26	<13	PASS
	MCH	5	<13	PASS
	HCH	5.03	<13	PASS
16QAM	LCH	6.48	<13	PASS
	MCH	6.17	<13	PASS
	HCH	6.2	<13	PASS

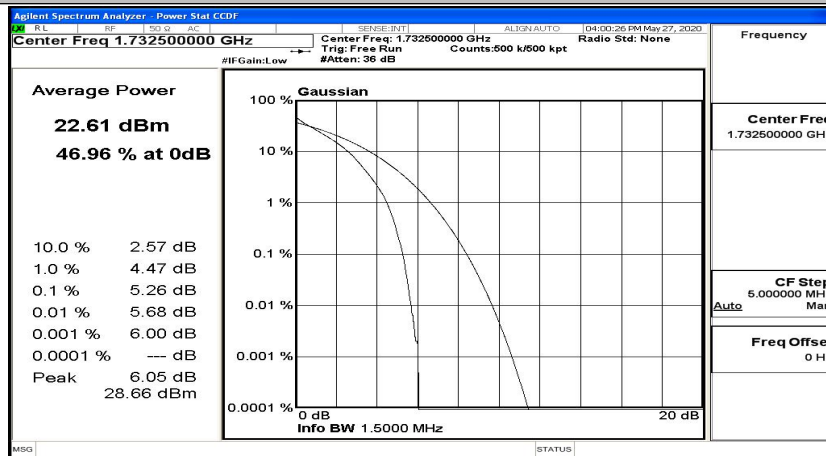
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.84	<13	PASS
	MCH	5.72	<13	PASS
	HCH	5.8	<13	PASS
16QAM	LCH	6.77	<13	PASS
	MCH	6.68	<13	PASS
	HCH	6.73	<13	PASS

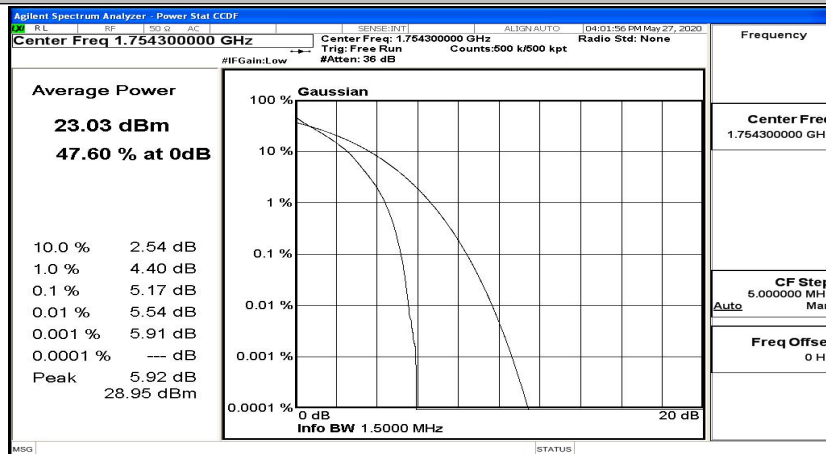
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



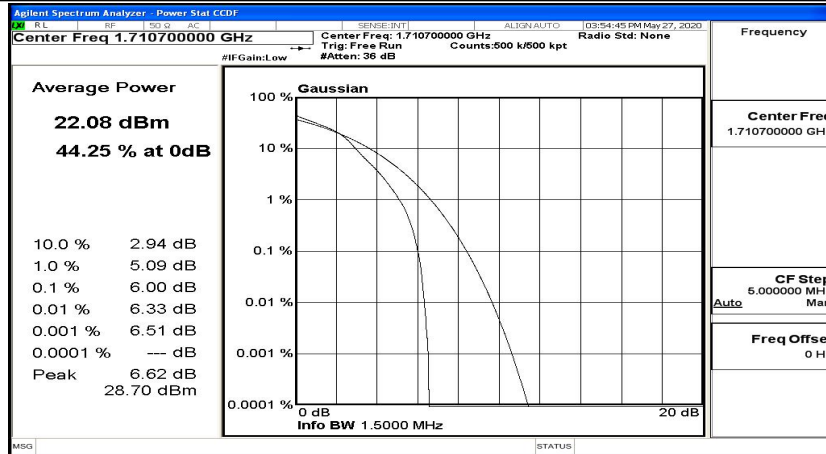
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



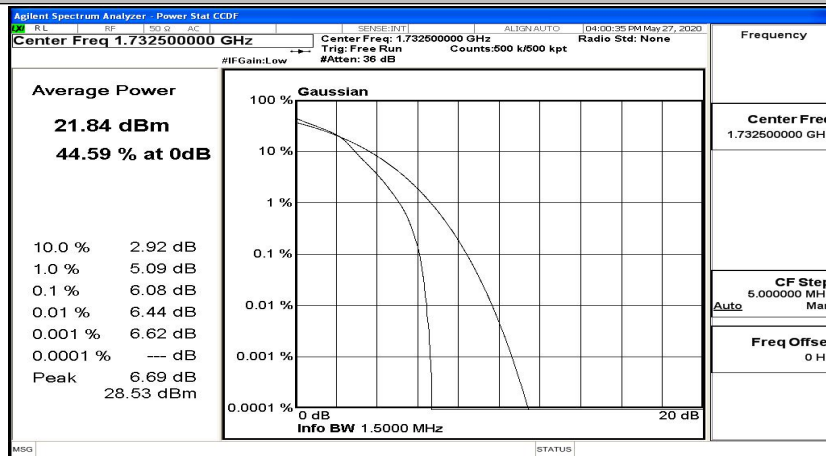
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



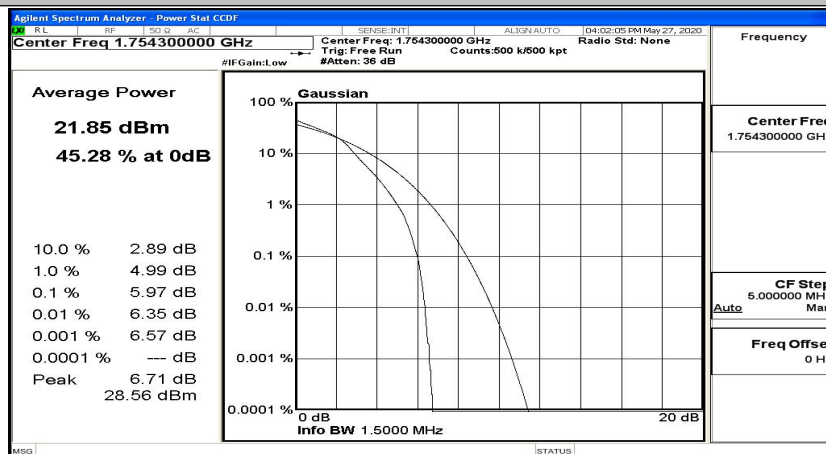
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



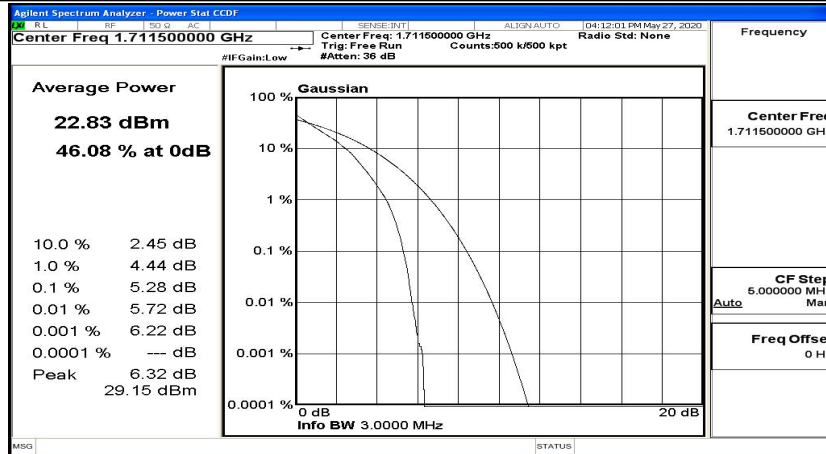
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



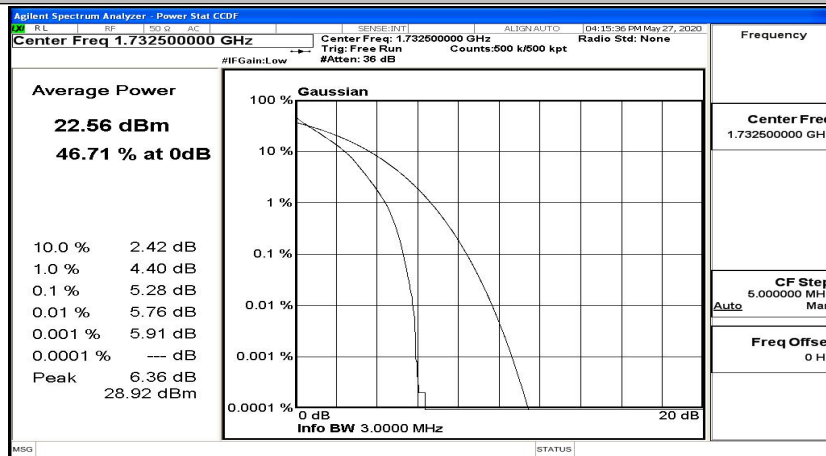
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



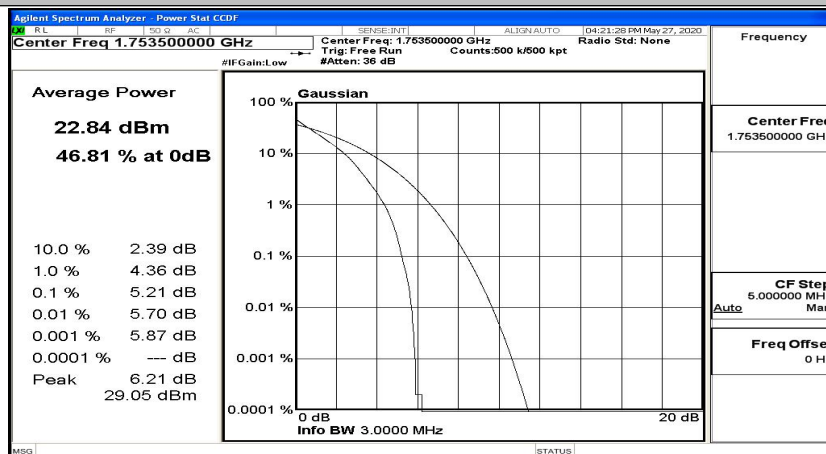
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



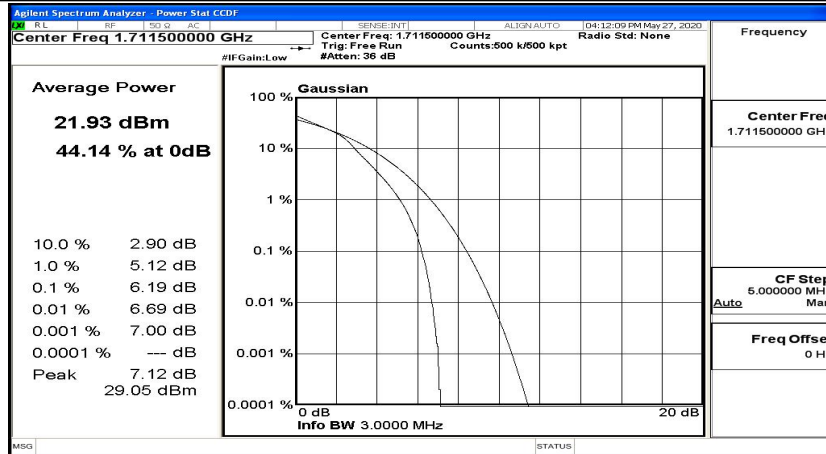
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



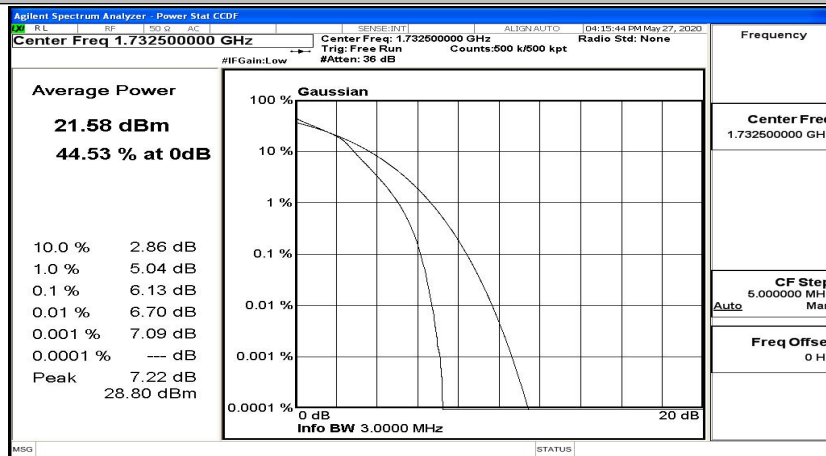
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



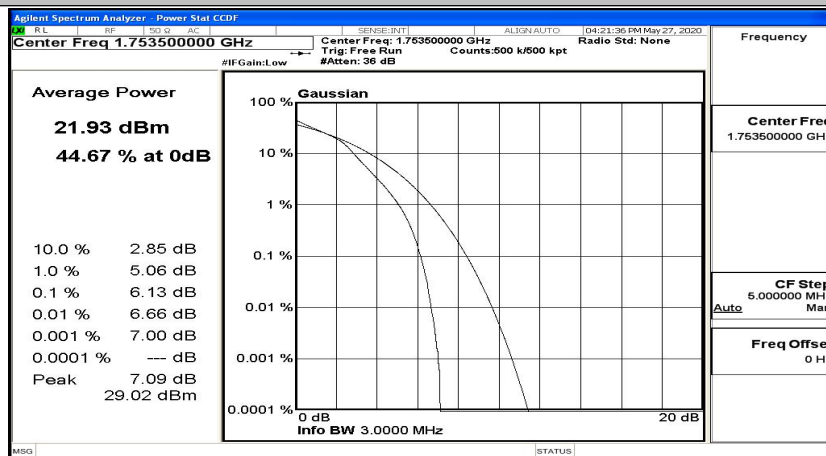
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



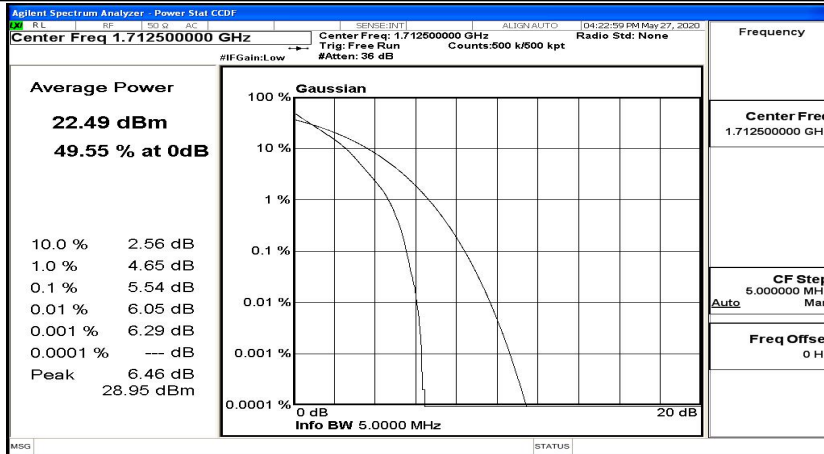
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



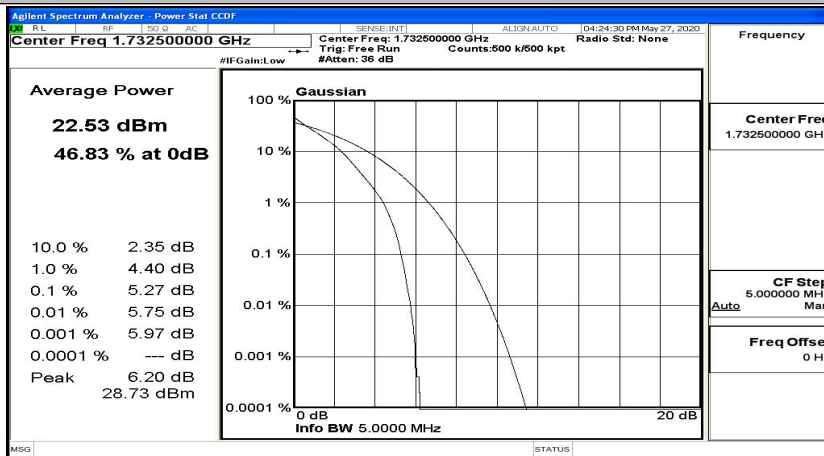
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



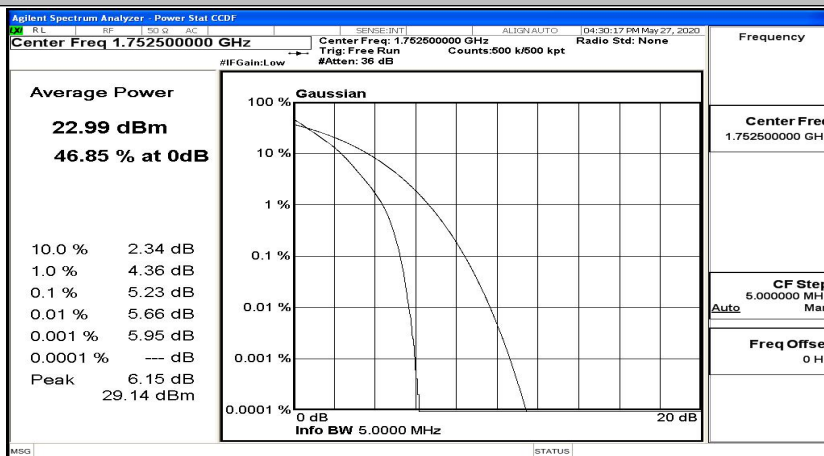
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



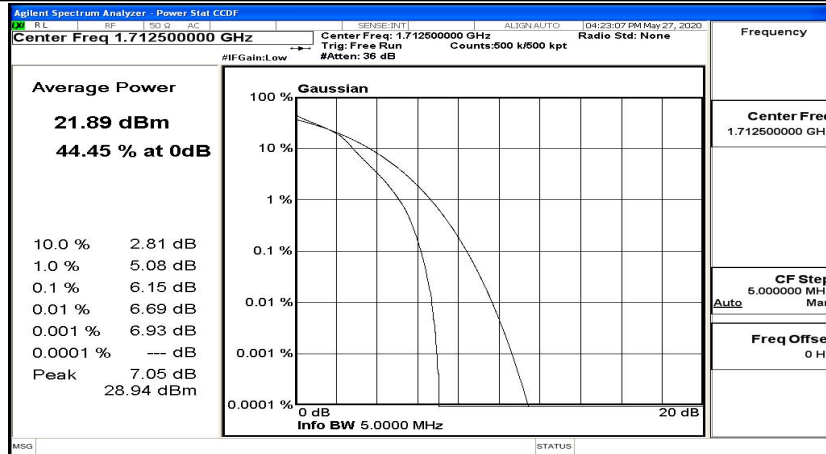
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



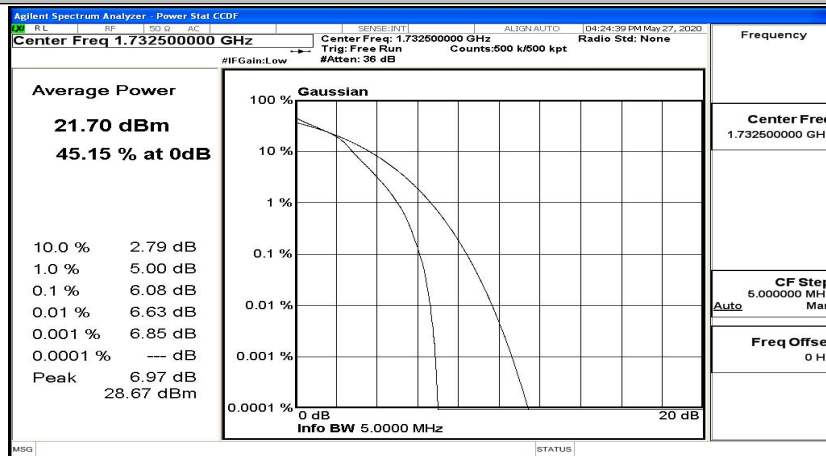
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



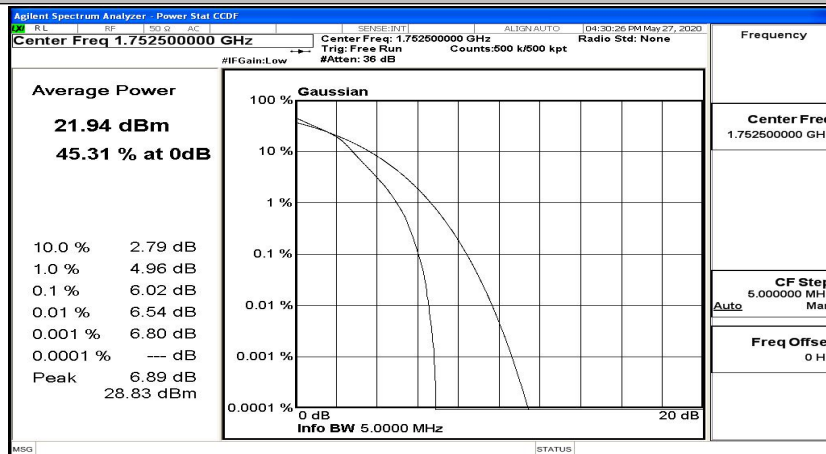
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

