Appendix D: Test Data for E-UTRA Band 4

Product Name: Smart phone Trade Mark: S SMOOTH **Test Model: SMOOTH 5.0**

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

D.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	
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict	
		1	0	23.00	22.75	PASS	
		1	3	23.02	22.81	PASS	
		1	5	23.01	22.73	PASS	
	LCH	3	0	23.06	21.89	PASS	
		3	2	23.12	21.94	PASS	
		3	3	23.19	21.97	PASS	
		6	0	22.17	20.98	PASS	
	мсн	1	0	21.38	20.66	PASS	
		1	3	21.46	20.69	PASS	
QPSK /		1	5	21.55	20.72	PASS	
16QAM		3	0	21.53	20.40	PASS	
IOQAW		3	2	21.45	20.40	PASS	
		3	3	21.58	20.49	PASS	
		6	0	20.51	19.69	PASS	
		1	0	22.90	22.44	PASS	
		1	3	22.72	22.41	PASS	
		1	5	22.76	22.40	PASS	
	HCH	3	0	22.60	21.58	PASS	
		3	2	22.56	21.59	PASS	
		3	3	22.58	21.34	PASS	
		6	0	21.63	20.57	PASS	

	Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)								
Madulatian	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/andiat			
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	23.00	23.02	PASS			
		1	7	23.11	23.05	PASS			
		1	14	23.04	22.89	PASS			
	LCH	8	0	22.13	21.14	PASS			
		8	4	22.13	21.10	PASS			
		8	7	22.15	21.12	PASS			
		15	0	22.06	21.15	PASS			
		1	0	21.38	21.30	PASS			
	мсн	1	7	21.44	21.22	PASS			
ODCK /		1	14	21.60	21.38	PASS			
QPSK / 16QAM		8	0	20.46	19.55	PASS			
TOQAIVI		8	4	20.51	19.59	PASS			
		8	7	20.56	19.63	PASS			
		15	0	20.45	19.59	PASS			
		1	0	22.76	22.60	PASS			
		1	7	22.69	22.53	PASS			
		1	14	22.55	22.30	PASS			
	нсн	8	0	21.86	21.04	PASS			
		8	4	21.68	20.98	PASS			
		8	7	21.63	21.12	PASS			
		15	0	21.76	20.95	PASS			

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)								
Madulatian	Chamal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Mandiat		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	23.28	22.78	PASS		
		1	12	23.18	22.69	PASS		
		1	24	23.05	22.64	PASS		
	LCH	12	0	22.09	21.19	PASS		
		12	6	22.06	21.24	PASS		
		12	13	21.97	21.14	PASS		
		25	0	22.10	21.23	PASS		
	мсн	1	0	21.28	20.94	PASS		
		1	12	21.36	21.05	PASS		
QPSK /		1	24	21.63	21.33	PASS		
16QAM		12	0	20.45	19.54	PASS		
IOQAW		12	6	20.44	19.57	PASS		
		12	13	20.57	19.67	PASS		
		25	0	20.45	19.69	PASS		
		1	0	23.09	21.64	PASS		
		1	12	22.92	21.51	PASS		
		1	24	22.64	21.23	PASS		
	нсн	12	0	22.06	21.15	PASS		
		12	6	21.87	20.94	PASS		
		12	13	21.71	20.71	PASS		
		25	0	21.89	21.10	PASS		

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)								
NA	01	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	23.23	23.10	PASS		
		1	24	22.91	22.93	PASS		
		1	49	22.36	22.29	PASS		
	LCH	25	0	22.09	21.00	PASS		
		25	12	22.01	20.84	PASS		
		25	25	21.61	20.52	PASS		
		50	0	21.91	20.93	PASS		
		1	0	21.30	20.85	PASS		
	мсн	1	24	21.53	21.01	PASS		
QPSK /		1	49	22.07	21.54	PASS		
16QAM		25	0	20.40	19.58	PASS		
IOQAIVI		25	12	20.55	19.61	PASS		
		25	25	20.70	19.77	PASS		
		50	0	20.57	19.65	PASS		
		1	0	23.21	22.19	PASS		
		1	24	23.18	22.21	PASS		
		1	49	22.79	21.74	PASS		
	нсн	25	0	22.13	20.95	PASS		
		25	12	22.12	20.85	PASS		
		25	25	21.89	20.81	PASS		
		50	0	22.02	20.96	PASS		

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)								
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict		
Wodulation	Charmer	Size	Offset	QPSK	16QAM	Verdict		
		1	0	23.12	23.07	PASS		
		1	37	22.61	22.62	PASS		
		1	74	21.60	21.64	PASS		
	LCH	37	0	21.85	20.98	PASS		
		37	18	21.53	20.52	PASS		
		37	38	21.17	19.97	PASS		
		75	0	21.63	20.59	PASS		
	мсн	1	0	21.27	21.54	PASS		
		1	37	21.37	21.52	PASS		
QPSK /		1	74	22.31	22.51	PASS		
16QAM		37	0	20.34	19.42	PASS		
IOQAW		37	18	20.45	19.56	PASS		
		37	38	20.93	19.89	PASS		
		75	0	20.62	19.63	PASS		
		1	0	22.76	21.76	PASS		
		1	37	23.23	22.24	PASS		
		1	74	22.77	21.79	PASS		
	нсн	37	0	22.04	21.03	PASS		
		37	18	22.22	21.16	PASS		
		37	38	21.98	21.21	PASS		
		75	0	21.94	21.05	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)								
Madulatian	Chamal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vandiat			
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	23.26	22.58	PASS			
		1	49	22.33	21.80	PASS			
		1	99	21.41	20.81	PASS			
	LCH	50	0	21.73	20.84	PASS			
		50	25	21.24	20.24	PASS			
		50	50	20.57	19.69	PASS			
		100	0	21.32	20.19	PASS			
	MCH	1	0	21.83	20.73	PASS			
		1	49	21.72	20.58	PASS			
QPSK /		1	99	22.95	21.83	PASS			
16QAM		50	0	20.36	19.70	PASS			
TOQAM		50	25	20.58	19.63	PASS			
		50	50	21.02	20.08	PASS			
		100	0	20.77	19.80	PASS			
		1	0	21.86	21.08	PASS			
		1	49	23.09	22.33	PASS			
		1	99	22.73	21.73	PASS			
	HCH	50	0	21.51	20.66	PASS			
		50	25	22.12	21.09	PASS			
		50	50	22.09	21.13	PASS			
		100	0	21.69	20.85	PASS			

D.2 Peak-to-Average Ratio

Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict			
IVIOGUIATIOTI	Channel	[dB]	[dB]	Verdict			
	LCH	5.66	<13	PASS			
QPSK	MCH	5.02	<13	PASS			
	HCH	5.97	<13	PASS			
	LCH	6.58	<13	PASS			
16QAM	MCH	5.86	<13	PASS			
	HCH	6.93	<13	PASS			

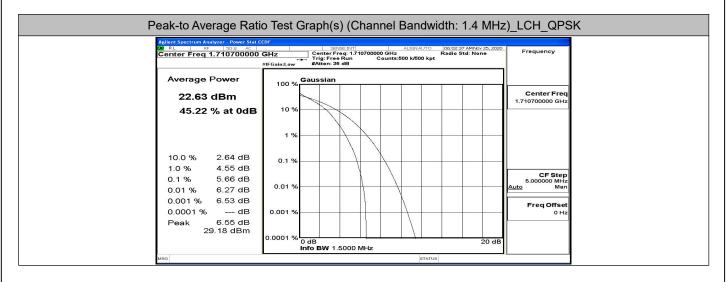
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
Modulation	Chaine	[dB]	[dB]	verdict			
	LCH	5.74	<13	PASS			
QPSK	MCH	5.27	<13	PASS			
	HCH	5.81	<13	PASS			
	LCH	6.62	<13	PASS			
16QAM	MCH	6.04	<13	PASS			
	HCH	6.67	<13	PASS			

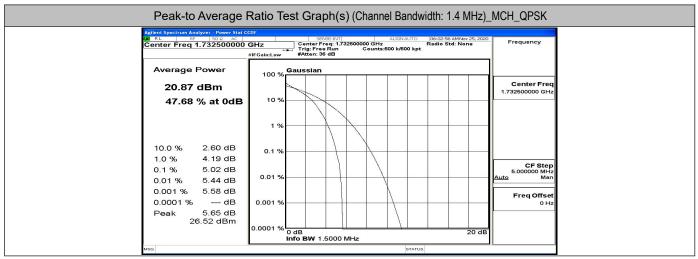
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict			
Modulation	Channel	[dB]	[dB]	Verdict			
	LCH	5.7	<13	PASS			
QPSK	MCH	5.17	<13	PASS			
	HCH	5.82	<13	PASS			
	LCH	6.46	<13	PASS			
16QAM	MCH	5.93	<13	PASS			
	HCH	6.54	<13	PASS			

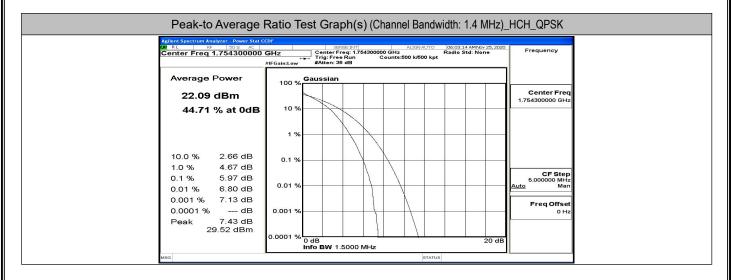
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
IVIOUUIALIOIT	Griannei	[dB]	[dB]	verdict			
	LCH	5.78	<13	PASS			
QPSK	MCH	5.34	<13	PASS			
	HCH	5.66	<13	PASS			
	LCH	6.48	<13	PASS			
16QAM	MCH	6.12	<13	PASS			
	НСН	6.48	<13	PASS			

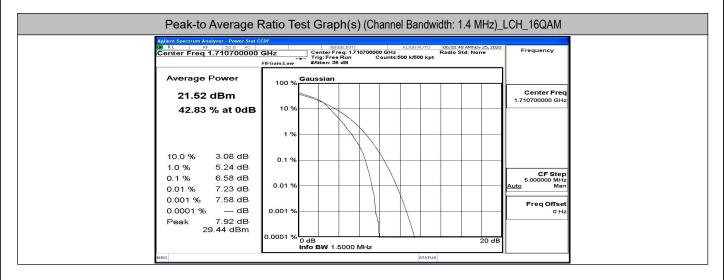
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordiet			
Wodulation	Channel	[dB]	[dB]	Verdict			
	LCH	4.95	<13	PASS			
QPSK	MCH	4.9	<13	PASS			
	HCH	4.86	<13	PASS			
	LCH	6.33	<13	PASS			
16QAM	MCH	6.19	<13	PASS			
	HCH	6.25	<13	PASS			

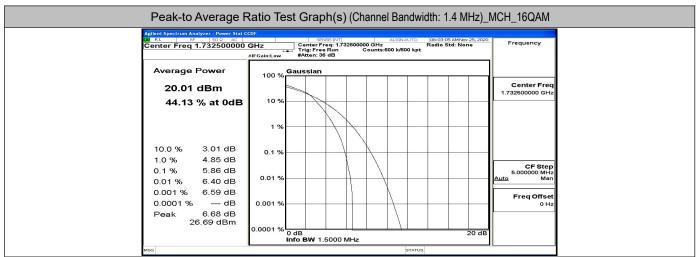
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
Modulation		[dB]	[dB]		
QPSK	LCH	5.8	<13	PASS	
	MCH	5.68	<13	PASS	
	HCH	5.72	<13	PASS	
16QAM	LCH	6.8	<13	PASS	
	MCH	6.6	<13	PASS	
	HCH	6.76	<13	PASS	

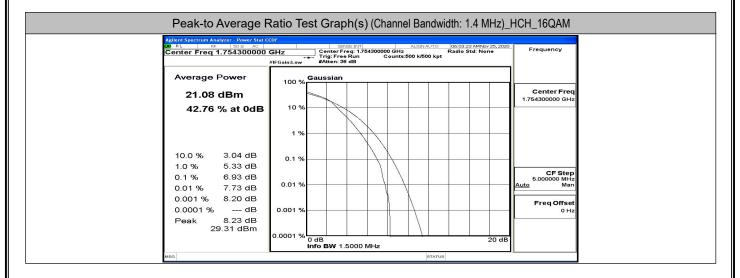


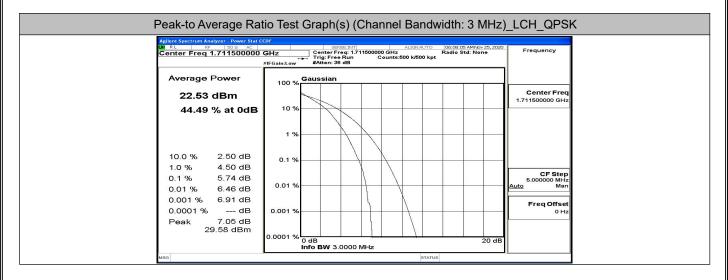


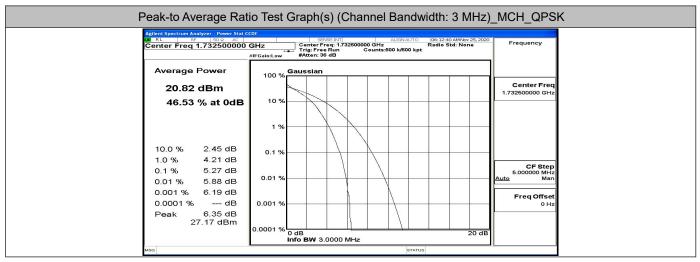


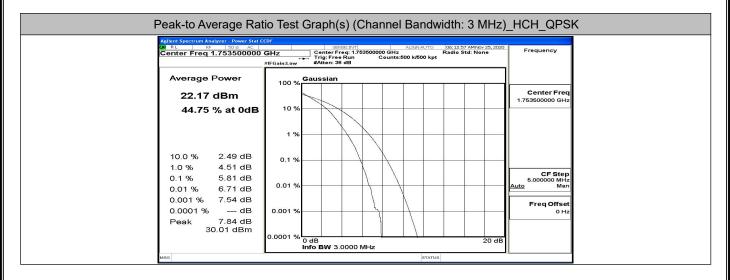


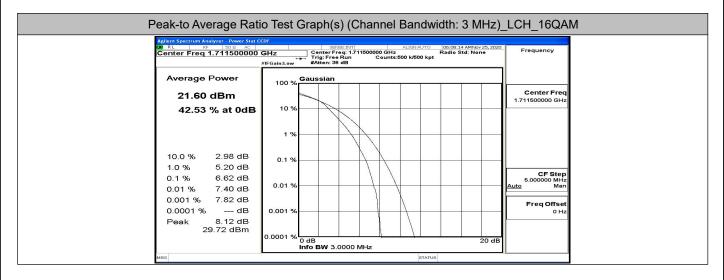


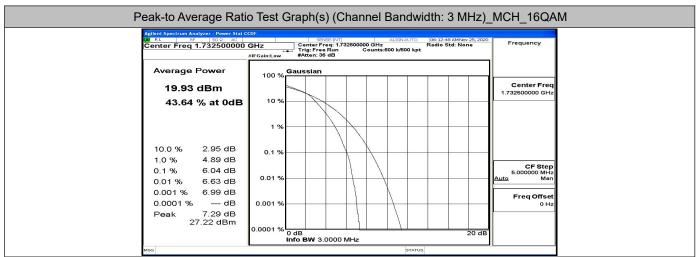


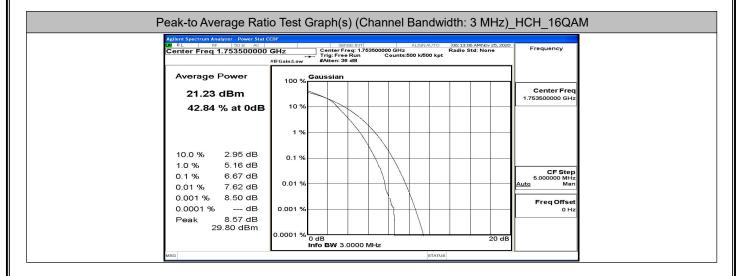


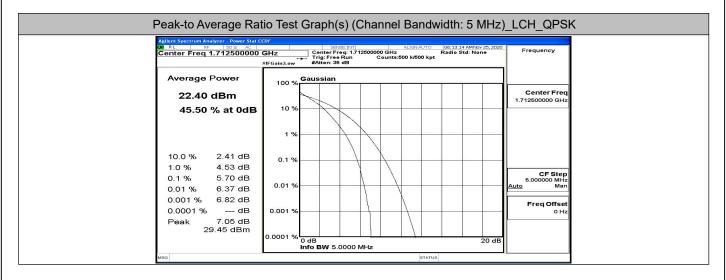


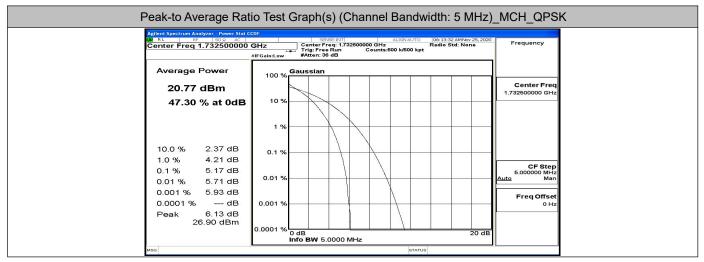


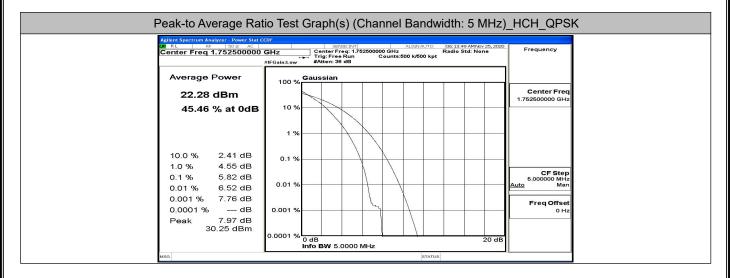


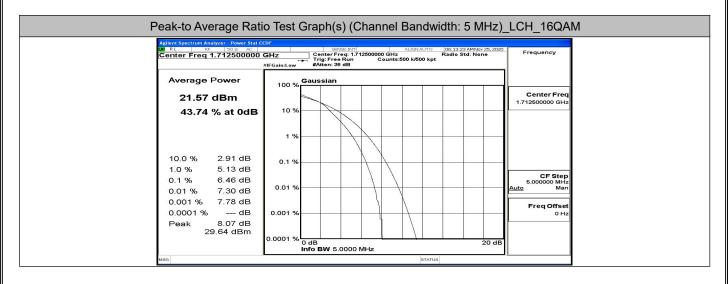


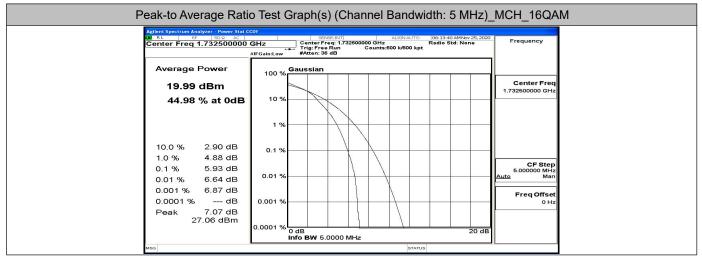


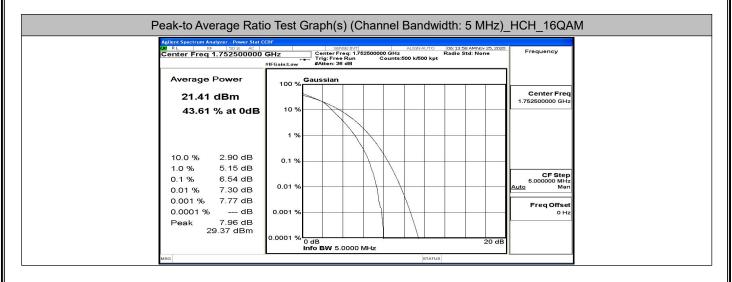




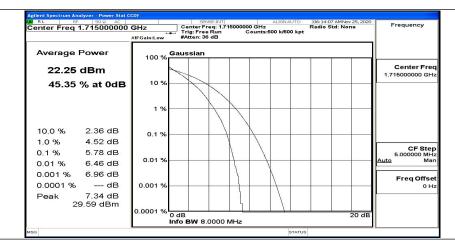


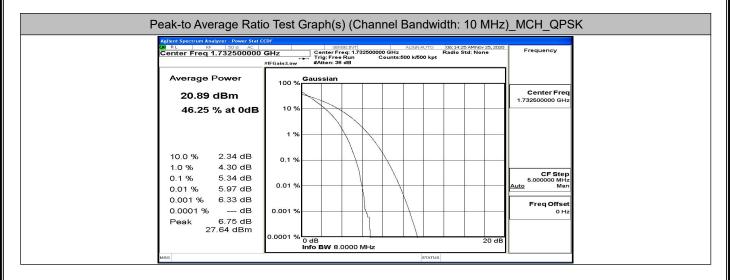


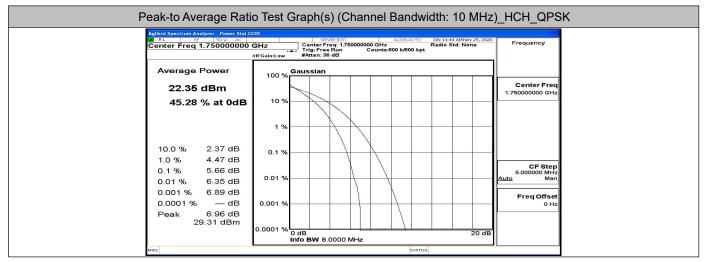


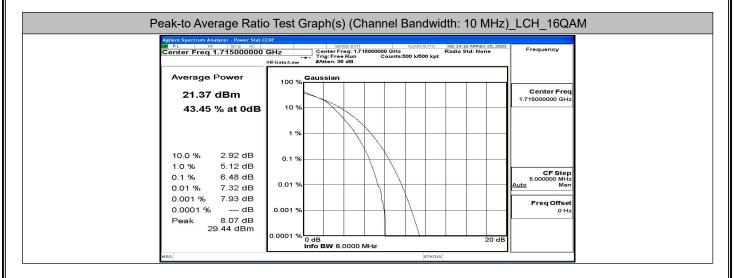


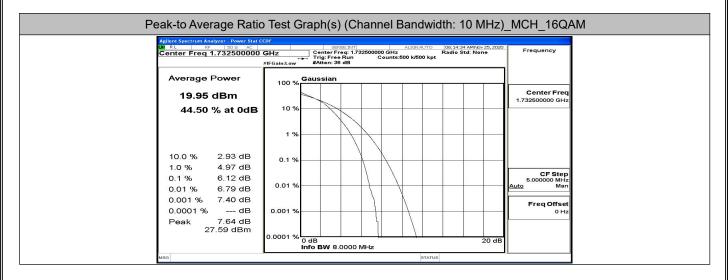
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

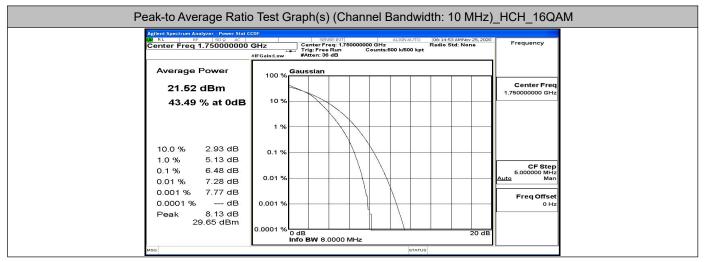


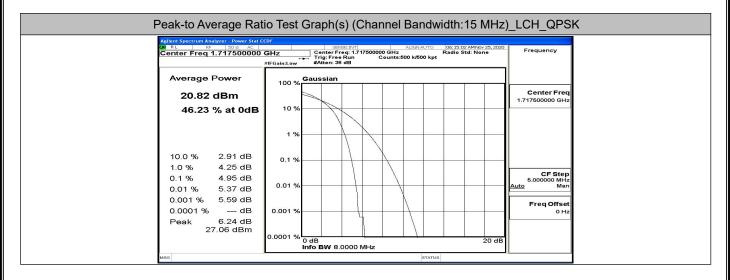


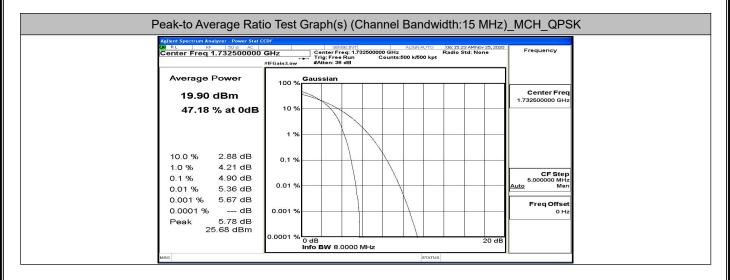


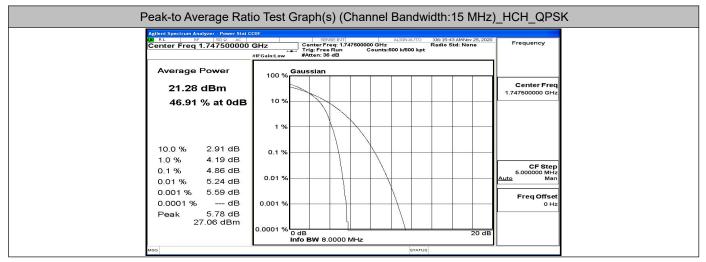


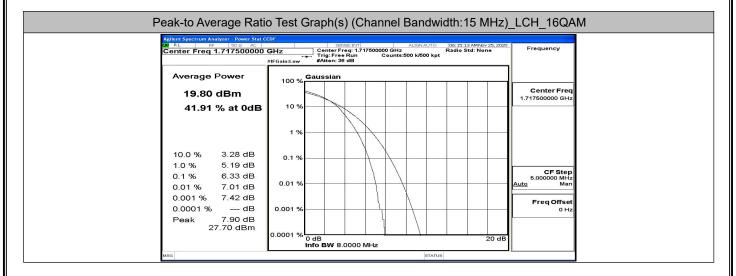


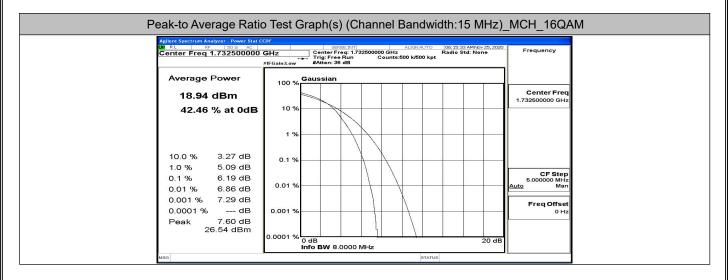


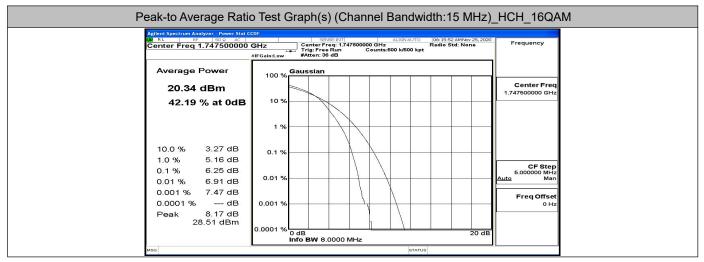


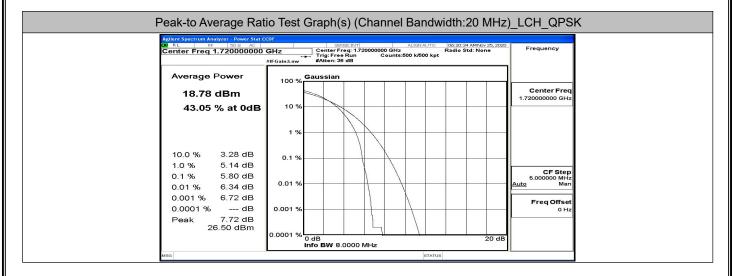


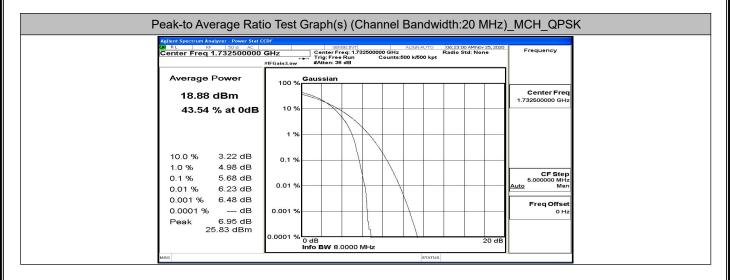


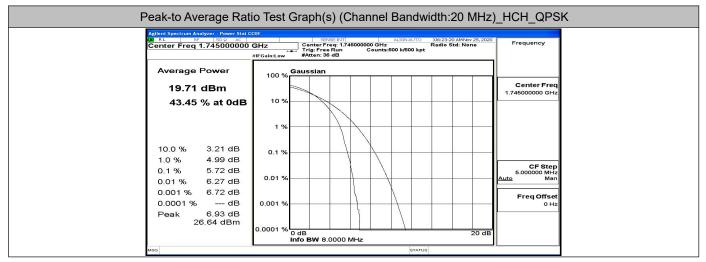


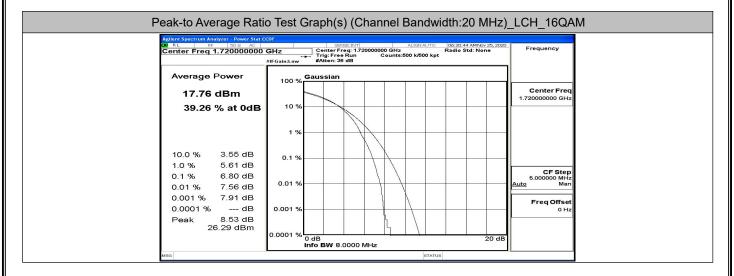


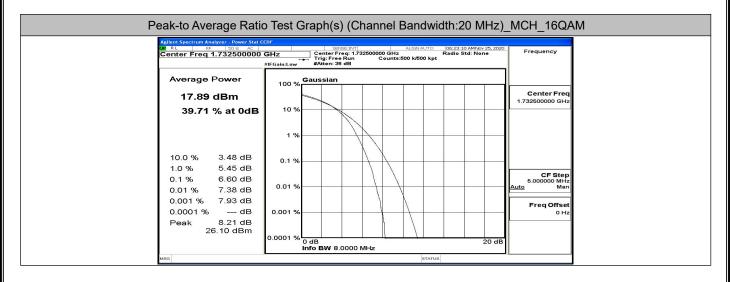


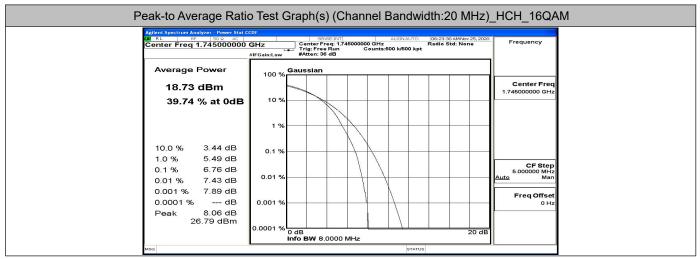












D.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)					
Madulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	1.0731	1.206	PASS	
	MCH	1.0796	1.218	PASS	
	HCH	1.0798	1.229	PASS	
16QAM	LCH	1.0781	1.214	PASS	
	MCH	1.0783	1.219	PASS	
	HCH	1.0808	1.234	PASS	

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
iviodulation		(MHz)	(MHz)		
QPSK	LCH	5.9471	6.000	PASS	
	MCH	2.6819	2.937	PASS	
	HCH	2.6847	2.953	PASS	
16QAM	LCH	2.6849	2.962	PASS	
	MCH	2.6780	2.933	PASS	
	нсн	2.6857	2.924	PASS	

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	4.4706	4.823	PASS	
	MCH	4.4612	4.827	PASS	
	HCH	4.4714	4.795	PASS	
16QAM	LCH	4.4684	4.819	PASS	
	MCH	4.4750	4.784	PASS	
	HCH	4.4679	4.833	PASS	

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
iviodulation		(MHz)	(MHz)		
QPSK	LCH	8.9306	9.595	PASS	
	MCH	8.9351	9.539	PASS	
	HCH	8.9333	9.527	PASS	
16QAM	LCH	8.9249	9.490	PASS	
	MCH	8.9232	9.596	PASS	
	HCH	8.9185	9.496	PASS	

EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
iviodulation		(MHz)	(MHz)	
QPSK	LCH	13.396	14.02	PASS
	MCH	13.376	14.15	PASS
	HCH	13.380	14.16	PASS
16QAM	LCH	13.385	14.02	PASS
	MCH	13.379	14.02	PASS
	HCH	13.367	14.12	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
		(MHz)	(MHz)		
QPSK	LCH	17.832	18.62	PASS	
	MCH	17.848	18.72	PASS	
	HCH	17.866	18.75	PASS	
16QAM	LCH	17.903	18.77	PASS	
	MCH	17.827	18.76	PASS	
	HCH	17.861	18.66	PASS	

