

Appendix A. Test Data

Maximum Conducted Output Power Measurement								
Test Mode	Frequency (MHz)	Packet Type	Average Power		Peak Power		Power Limit	RF Power setting in Test Software
			dBm	W	dBm	W		
BT_GFSK	2402	DH1	15.31	0.0340	15.76	0.03767	<0.125	11
		DH3	15.37	0.0344	15.73	0.03741	<0.125	11
		DH5	15.38	0.0345	15.81	0.03811	<0.125	11
	2441	DH1	16.95	0.0495	17.46	0.05572	<0.125	11
		DH3	16.96	0.0496	17.29	0.05358	<0.125	11
		DH5	16.98	0.0499	17.50	0.05623	<0.125	11
	2480	DH1	15.45	0.0351	15.86	0.03855	<0.125	11
		DH3	15.44	0.0350	15.78	0.03784	<0.125	11
		DH5	15.53	0.0357	15.90	0.03890	<0.125	11
BT_π/4-DQPSK	2402	2DH1	12.53	0.0179	15.22	0.03327	<0.125	11
		2DH3	12.62	0.0183	15.23	0.03334	<0.125	11
		2DH5	12.66	0.0184	15.25	0.03350	<0.125	11
	2441	2DH1	14.31	0.0270	16.91	0.04909	<0.125	11
		2DH3	14.30	0.0269	16.91	0.04909	<0.125	11
		2DH5	14.37	0.0273	16.96	0.04966	<0.125	11
	2480	2DH1	12.88	0.0194	15.50	0.03548	<0.125	11
		2DH3	12.80	0.0191	15.41	0.03475	<0.125	11
		2DH5	12.89	0.0194	15.51	0.03556	<0.125	11
BT_8DPSK	2402	3DH1	12.55	0.0180	15.64	0.03664	<0.125	11
		3DH3	12.53	0.0179	15.62	0.03648	<0.125	11
		3DH5	12.69	0.0186	15.68	0.03698	<0.125	11
	2441	3DH1	14.32	0.0271	17.38	0.05470	<0.125	11
		3DH3	14.32	0.0270	17.38	0.05470	<0.125	11
		3DH5	14.39	0.0275	17.39	0.05483	<0.125	11
	2480	3DH1	12.73	0.0188	15.81	0.03811	<0.125	11
		3DH3	12.74	0.0188	15.83	0.03828	<0.125	11
		3DH5	12.78	0.0190	15.84	0.03837	<0.125	11

Note: The relevant measured result has the offset with cable loss already.

20 dB Emission Bandwidth and 99 % Occupied Bandwidth Measurement			
Test Mode	Frequency (MHz)	20 dB RF Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
BT_GFSK	2402	0.9399	0.82862
	2441	0.9398	0.82903
	2480	0.9401	0.82928
BT_8DPSK	2402	1.299	1.1787
	2441	1.299	1.1799
	2480	1.299	1.1799

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	1.000	≥ 0.627
	2441	1.148	≥ 0.627
	2480	1.002	≥ 0.627
BT_8DPSK	2402	1.018	≥ 0.866
	2441	1.006	≥ 0.866
	2480	1.026	≥ 0.866

Time of Occupancy (Dwell Time) Measurement		
Test Mode	Average Time of Occupancy (Dwell Time) Measurement	
	DH1	
BT_GFSK	Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$800/79CH = 10.13 \text{ (times/sec)}$
	Each Channel Dwell Times on Cycle(1)	$31.6 * 10.13 = 320.108 \text{ (times)}$
	Each Channel Dwell Times (2)	0.400 ms
	Dwell Times on Cycle (1) * (2)	128.043 ms
	Limit (msec)	≤ 400
	DH3	
	Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$400/79CH = 5.06 \text{ (times/sec)}$
	Each Channel Dwell Times on Cycle(1)	$31.6 * 5.06 = 159.896 \text{ (times)}$
	Each Channel Dwell Times (2)	1.657 ms
	Dwell Times on Cycle (1) * (2)	264.948 ms
	Limit (msec)	≤ 400
	DH5	
	Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$266.7/79CH = 3.38 \text{ (times/sec)}$
	Each Channel Dwell Times on Cycle(1)	$31.6 * 3.38 = 106.808 \text{ (times)}$
	Each Channel Dwell Times (2)	2.925 ms
	Dwell Times on Cycle (1) * (2)	312.413 ms
	Limit (msec)	≤ 400

Test Mode	Average Time of Occupancy (Dwell Time) Measurement	
	3DH1	
BT_8DPSK	Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$800/79CH = 10.13 \text{ (times/sec)}$
	Each Channel Dwell Times on Cycle(1)	$31.6 * 10.13 = 320.108 \text{ (times)}$
	Each Channel Dwell Times (2)	0.405 ms
	Dwell Times on Cycle (1) * (2)	129.644 ms
	Limit (msec)	≤ 400
	3DH3	
	Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$400/79CH = 5.06 \text{ (times/sec)}$
	Each Channel Dwell Times on Cycle(1)	$31.6 * 5.06 = 159.896 \text{ (times)}$
	Each Channel Dwell Times (2)	1.670 ms
	Dwell Times on Cycle (1) * (2)	267.026 ms
	Limit (msec)	≤ 400
	3DH5	
	Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$266.7/79CH = 3.38 \text{ (times/sec)}$
	Each Channel Dwell Times on Cycle(1)	$31.6 * 3.38 = 106.808 \text{ (times)}$
	Each Channel Dwell Times (2)	2.925 ms
	Dwell Times on Cycle (1) * (2)	312.413 ms
	Limit (msec)	≤ 400