

Appendix A. Test Data

Maximum Conducted Output Power Measurement								
Mode	Frequency (MHz)	Packet Type	Average Power		Peak Power		Power Limit	RF Power setting in Test Software
			dBm	W	dBm	W	W	
BT_GFSK	2402	DH1	8.46	0.0070	9.25	0.00841	<0.125	6.00
		DH3	8.79	0.0076	9.22	0.00836	<0.125	6.00
		DH5	8.81	0.0076	9.28	0.00847	<0.125	6.00
	2441	DH1	7.81	0.0060	8.58	0.00721	<0.125	6.00
		DH3	8.13	0.0065	8.60	0.00724	<0.125	6.00
		DH5	8.20	0.0066	8.65	0.00733	<0.125	6.00
	2480	DH1	7.92	0.0062	8.73	0.00746	<0.125	6.00
		DH3	8.26	0.0067	8.75	0.00750	<0.125	6.00
		DH5	8.30	0.0068	8.81	0.00760	<0.125	6.00
BT_π/4-DQPSK	2402	2DH1	8.73	0.0075	11.49	0.01409	<0.125	8.00
		2DH3	8.65	0.0073	11.56	0.01432	<0.125	8.00
		2DH5	8.83	0.0076	11.66	0.01466	<0.125	8.00
	2441	2DH1	8.12	0.0065	10.78	0.01197	<0.125	8.00
		2DH3	7.86	0.0061	10.93	0.01239	<0.125	8.00
		2DH5	8.23	0.0067	11.06	0.01276	<0.125	8.00
	2480	2DH1	8.12	0.0065	10.95	0.01245	<0.125	8.00
		2DH3	8.07	0.0064	11.01	0.01262	<0.125	8.00
		2DH5	8.25	0.0067	11.18	0.01312	<0.125	8.00
BT_8DPSK	2402	3DH1	8.88	0.0077	11.66	0.01466	<0.125	8.00
		3DH3	8.86	0.0077	11.76	0.01500	<0.125	8.00
		3DH5	9.03	0.0080	11.84	0.01528	<0.125	8.00
	2441	3DH1	8.32	0.0068	10.94	0.01242	<0.125	8.00
		3DH3	7.97	0.0063	10.97	0.01250	<0.125	8.00
		3DH5	8.37	0.0069	11.08	0.01282	<0.125	8.00
	2480	3DH1	8.29	0.0067	11.14	0.01300	<0.125	8.00
		3DH3	8.32	0.0068	11.25	0.01334	<0.125	8.00
		3DH5	8.48	0.0070	11.34	0.01361	<0.125	8.00

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

20 dB Emission Bandwidth and 99 % Occupied Bandwidth Measurement			
Mode	Frequency (MHz)	20 dB RF Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
BT_GFSK	2402	0.856	0.750
	2441	0.857	0.750
	2480	0.857	0.751
BT_8DPSK	2402	1.252	1.144
	2441	1.253	1.143
	2480	1.253	1.145

Carrier Frequency Separation Measurement			
Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	1.006	≥ 0.571
	2441	0.984	≥ 0.572
	2480	0.996	≥ 0.572
BT_8DPSK	2402	1.004	≥ 0.835
	2441	1.000	≥ 0.835
	2480	1.006	≥ 0.836

Time of Occupancy (Dwell Time) Measurement		
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)	0.410 ms
	Dwell Times on Cycle (1) * (2)	131.244 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)	1.660 ms
	Dwell Times on Cycle (1) * (2)	265.427 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)	2.920 ms
	Dwell Times on Cycle (1) * (2)	311.879 ms
	Limit (msec)	≤ 400

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)	0.420 ms
	Dwell Times on Cycle (1) * (2)	134.445 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)	1.660 ms
	Dwell Times on Cycle (1) * (2)	265.427 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)	2.920 ms
	Dwell Times on Cycle (1) * (2)	311.879 ms
	Limit (msec)	≤ 400