

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	6.52	0.0045	7.56	0.00570	<0.125	8.00
		DH3	6.84	0.0048	7.62	0.00578	<0.125	8.00
		DH5	6.92	0.0049	7.63	0.00579	<0.125	8.00
	2441	DH1	6.62	0.0046	9.83	0.00962	<0.125	8.00
		DH3	6.89	0.0049	9.87	0.00971	<0.125	8.00
		DH5	6.96	0.0050	9.89	0.00975	<0.125	8.00
	2480	DH1	6.68	0.0047	10.23	0.01054	<0.125	8.00
		DH3	6.90	0.0049	10.25	0.01059	<0.125	8.00
		DH5	6.99	0.0050	10.32	0.01076	<0.125	8.00
BT_π/4-DQPSK	2402	2DH1	6.39	0.0044	7.38	0.00547	<0.125	8.00
		2DH3	6.63	0.0046	7.41	0.00551	<0.125	8.00
		2DH5	6.74	0.0047	7.42	0.00552	<0.125	8.00
	2441	2DH1	6.51	0.0045	9.75	0.00944	<0.125	8.00
		2DH3	6.77	0.0048	9.80	0.00955	<0.125	8.00
		2DH5	6.86	0.0048	9.87	0.00971	<0.125	8.00
	2480	2DH1	6.53	0.0045	10.11	0.01026	<0.125	8.00
		2DH3	6.82	0.0048	10.22	0.01052	<0.125	8.00
		2DH5	6.86	0.0048	10.28	0.01067	<0.125	8.00
BT_8DPSK	2402	3DH1	6.41	0.0044	7.48	0.00560	<0.125	8.00
		3DH3	6.70	0.0047	7.55	0.00569	<0.125	8.00
		3DH5	6.75	0.0047	7.57	0.00571	<0.125	8.00
	2441	3DH1	6.53	0.0045	9.77	0.00948	<0.125	8.00
		3DH3	6.88	0.0049	9.85	0.00966	<0.125	8.00
		3DH5	6.91	0.0049	9.90	0.00977	<0.125	8.00
	2480	3DH1	6.56	0.0045	10.18	0.01042	<0.125	8.00
		3DH3	6.85	0.0048	10.27	0.01064	<0.125	8.00
		3DH5	6.89	0.0049	10.32	0.01076	<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			
Test Mode	Frequency (MHz)	20 dB RF Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
BT_GFSK	2402	0.859	0.752
	2441	0.858	0.752
	2480	0.861	0.752
BT_8DPSK	2402	1.302	1.180
	2441	1.299	1.179
	2480	1.297	1.178

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	1.008	≥ 0.572
	2441	1.004	≥ 0.572
	2480	0.976	≥ 0.574
BT_8DPSK	2402	1.234	≥ 0.868
	2441	1.008	≥ 0.866
	2480	1.012	≥ 0.865

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)	0.420 ms
	Dwell Times on Cycle (1) * (2)	134.445 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)	2.940 ms
	Dwell Times on Cycle (1) * (2)	314.016 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)	0.420 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)	1.670 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)	2.940 ms
	Dwell Times on Cycle (1) * (2)	314.016 ms
	Limit (msec)	≤ 400