

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	6.55	0.0045	7.12	0.00515	<0.125	8.00
		DH3	6.53	0.0045	7.11	0.00514	<0.125	8.00
		DH5	6.57	0.0045	7.14	0.00518	<0.125	8.00
	2441	DH1	6.51	0.0045	6.96	0.00497	<0.125	8.00
		DH3	6.54	0.0045	7.03	0.00505	<0.125	8.00
		DH5	6.55	0.0045	7.06	0.00508	<0.125	8.00
	2480	DH1	6.52	0.0045	6.98	0.00499	<0.125	8.00
		DH3	6.51	0.0045	7.01	0.00502	<0.125	8.00
		DH5	6.54	0.0045	7.05	0.00507	<0.125	8.00
BT_π/4-DQPSK	2402	2DH1	6.55	0.0045	9.41	0.00873	<0.125	8.00
		2DH3	6.56	0.0045	9.45	0.00881	<0.125	8.00
		2DH5	6.58	0.0046	9.47	0.00885	<0.125	8.00
	2441	2DH1	6.52	0.0045	9.56	0.00904	<0.125	8.00
		2DH3	6.60	0.0046	9.58	0.00908	<0.125	8.00
		2DH5	6.62	0.0046	9.57	0.00906	<0.125	8.00
	2480	2DH1	6.50	0.0045	9.42	0.00875	<0.125	8.00
		2DH3	6.56	0.0045	9.48	0.00887	<0.125	8.00
		2DH5	6.61	0.0046	9.53	0.00897	<0.125	8.00
BT_8DPSK	2402	3DH1	6.57	0.0045	9.75	0.00944	<0.125	8.00
		3DH3	6.59	0.0046	9.78	0.00951	<0.125	8.00
		3DH5	6.61	0.0046	9.83	0.00962	<0.125	8.00
	2441	3DH1	6.62	0.0046	9.82	0.00959	<0.125	8.00
		3DH3	6.64	0.0046	9.84	0.00964	<0.125	8.00
		3DH5	6.65	0.0046	9.90	0.00977	<0.125	8.00
	2480	3DH1	6.60	0.0046	9.80	0.00955	<0.125	8.00
		3DH3	6.61	0.0046	9.86	0.00968	<0.125	8.00
		3DH5	6.66	0.0046	9.92	0.00982	<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	0.751
	2441	0.857	0.751
	2480	0.858	0.752
BT_8DPSK	2402	1.297	1.178
	2441	1.297	1.178
	2480	1.298	1.178

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	1.016	≥ 0.573
	2441	1.008	≥ 0.571
	2480	1.002	≥ 0.572
BT_8DPSK	2402	0.976	≥ 0.865
	2441	1.258	≥ 0.865
	2480	1.318	≥ 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)	0.390 ms
	Dwell Times on Cycle (1) * (2)	124.842 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)	1.650 ms
	Dwell Times on Cycle (1) * (2)	263.828 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)	2.901 ms
	Dwell Times on Cycle (1) * (2)	309.850 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)	0.400 ms
	Dwell Times on Cycle (1) * (2)	128.043 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)	1.654 ms
	Dwell Times on Cycle (1) * (2)	264.468 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)	2.907 ms
	Dwell Times on Cycle (1) * (2)	310.491 ms
	Limit (msec)	≤ 400