

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		
BT_GFSK	2402	DH1	8.99	0.00793	9.31	0.00853	<0.125	9.00
		DH3	9.08	0.00809	9.37	0.00865	<0.125	9.00
		DH5	9.16	0.00824	9.45	0.00881	<0.125	9.00
	2441	DH1	9.66	0.00925	10.01	0.01002	<0.125	9.00
		DH3	9.73	0.00940	10.05	0.01012	<0.125	9.00
		DH5	9.81	0.00957	10.07	0.01016	<0.125	9.00
	2480	DH1	9.29	0.00849	9.55	0.00902	<0.125	9.00
		DH3	9.35	0.00861	9.60	0.00912	<0.125	9.00
		DH5	9.43	0.00877	9.67	0.00927	<0.125	9.00
BT_π/4-DQPSK	2402	2DH1	6.25	0.00422	8.92	0.00780	<0.125	9.00
		2DH3	6.37	0.00434	8.96	0.00787	<0.125	9.00
		2DH5	6.50	0.00447	9.00	0.00794	<0.125	9.00
	2441	2DH1	7.13	0.00516	9.81	0.00957	<0.125	9.00
		2DH3	7.26	0.00532	9.85	0.00966	<0.125	9.00
		2DH5	7.36	0.00545	9.88	0.00973	<0.125	9.00
	2480	2DH1	6.75	0.00473	9.38	0.00867	<0.125	9.00
		2DH3	6.87	0.00486	9.45	0.00881	<0.125	9.00
		2DH5	7.03	0.00505	9.50	0.00891	<0.125	9.00
BT_8DPSK	2402	3DH1	6.28	0.00425	9.01	0.00796	<0.125	9.00
		3DH3	6.41	0.00438	9.03	0.00800	<0.125	9.00
		3DH5	6.54	0.00451	9.07	0.00807	<0.125	9.00
	2441	3DH1	7.15	0.00519	9.88	0.00973	<0.125	9.00
		3DH3	7.29	0.00536	9.91	0.00979	<0.125	9.00
		3DH5	7.43	0.00553	9.95	0.00989	<0.125	9.00
	2480	3DH1	6.78	0.00476	9.44	0.00879	<0.125	9.00
		3DH3	6.90	0.00490	9.48	0.00887	<0.125	9.00
		3DH5	7.07	0.00509	9.53	0.00897	<0.125	9.00

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	0.943	0.861
	2441	0.942	0.865
	2480	0.943	0.863
BT_8DPSK	2402	1.298	1.180
	2441	1.300	1.183
	2480	1.299	1.183

Carrier Frequency Separation Measurement			
Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	0.992	≥ 0.629
	2441	0.992	≥ 0.628
	2480	0.996	≥ 0.629
BT_8DPSK	2402	0.982	≥ 0.865
	2441	1.000	≥ 0.867
	2480	0.998	≥ 0.866

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)	0.4165 ms
	Dwell Times on Cycle (1) * (2)	133.325 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)	1.692 ms
	Dwell Times on Cycle (1) * (2)	270.544 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)	2.979 ms
	Dwell Times on Cycle (1) * (2)	318.181 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)	0.4224 ms
	Dwell Times on Cycle (1) * (2)	135.214 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)	1.681 ms
	Dwell Times on Cycle (1) * (2)	268.785 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)	2.945 ms
	Dwell Times on Cycle (1) * (2)	314.550 ms
	Limit (msec)	≤ 400