

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	Test Software Version
			dBm	W	dBm	W	W		
BT_GFSK	2402	DH1	4.12	0.0026	4.38	0.00274	<0.125	8.00	QRCT / 4.0.209.0
		DH3	4.00	0.0025	4.52	0.00283	<0.125	8.00	
		DH5	4.16	0.0026	4.56	0.00286	<0.125	8.00	
	2441	DH1	3.89	0.0024	4.32	0.00270	<0.125	8.00	
		DH3	3.87	0.0024	4.32	0.00270	<0.125	8.00	
		DH5	3.83	0.0024	4.24	0.00265	<0.125	8.00	
	2480	DH1	7.30	0.0054	8.24	0.00667	<0.125	9.00	
		DH3	7.40	0.0055	8.24	0.00667	<0.125	9.00	
		DH5	7.41	0.0055	8.26	0.00670	<0.125	9.00	
BT_π/4-DQPSK	2402	2DH1	6.12	0.0041	8.18	0.00658	<0.125	9.00	QRCT / 4.0.209.0
		2DH3	6.13	0.0041	8.10	0.00646	<0.125	9.00	
		2DH5	6.06	0.0040	8.13	0.00650	<0.125	9.00	
	2441	2DH1	5.80	0.0038	7.76	0.00597	<0.125	9.00	
		2DH3	5.91	0.0039	7.95	0.00624	<0.125	9.00	
		2DH5	5.88	0.0039	7.85	0.00610	<0.125	9.00	
	2480	2DH1	5.09	0.0032	7.57	0.00571	<0.125	9.00	
		2DH3	5.03	0.0032	7.68	0.00586	<0.125	9.00	
		2DH5	5.11	0.0032	7.70	0.00589	<0.125	9.00	
BT_8DPSK	2402	3DH1	6.20	0.0042	8.59	0.00723	<0.125	9.00	QRCT / 4.0.209.0
		3DH3	6.21	0.0042	8.57	0.00719	<0.125	9.00	
		3DH5	6.28	0.0042	8.58	0.00721	<0.125	9.00	
	2441	3DH1	5.86	0.0039	8.41	0.00693	<0.125	9.00	
		3DH3	5.75	0.0038	8.42	0.00695	<0.125	9.00	
		3DH5	5.91	0.0039	8.44	0.00698	<0.125	9.00	
	2480	3DH1	6.27	0.0042	8.69	0.00740	<0.125	9.00	
		3DH3	6.24	0.0042	8.68	0.00738	<0.125	9.00	
		3DH5	6.36	0.0043	8.61	0.00726	<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			
Test Mode	Frequency (MHz)	20 dB RF Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
BT_GFSK	2402	0.935	0.828
	2441	0.936	0.829
	2480	0.936	0.831
BT_8DPSK	2402	1.304	1.197
	2441	1.303	1.190
	2480	1.301	1.199

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	0.996	≥ 0.623
	2441	0.994	≥ 0.624
	2480	1.008	≥ 0.624
BT_8DPSK	2402	0.996	≥ 0.869
	2441	0.982	≥ 0.869
	2480	1.308	≥ 0.868

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)	0.388 ms
	Dwell Times on Cycle (1) * (2)	124.202 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)	1.655 ms
	Dwell Times on Cycle (1) * (2)	264.628 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)	2.910 ms
Dwell Times on Cycle (1) * (2)	310.811 ms	
Limit (msec)	≤ 400	

Time of Occupancy (Dwell Time) Measurement		
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)	0.394 ms
	Dwell Times on Cycle (1) * (2)	126.123 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)	1.650 ms
	Dwell Times on Cycle (1) * (2)	263.828 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)	2.910 ms
Dwell Times on Cycle (1) * (2)	310.811 ms	
Limit (msec)	≤ 400	