

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	5.66	0.0037	5.70	0.00372	<0.125	Default	AWDTRDLAB 1.0.9.21
		DH3	5.67	0.0037	5.72	0.00373	<0.125	Default	
		DH5	5.70	0.0037	5.75	0.00376	<0.125	Default	
	2441	DH1	5.83	0.0038	5.87	0.00386	<0.125	Default	
		DH3	5.85	0.0038	5.88	0.00387	<0.125	Default	
		DH5	5.86	0.0039	5.90	0.00389	<0.125	Default	
	2480	DH1	5.97	0.0040	6.00	0.00398	<0.125	Default	
		DH3	5.99	0.0040	6.02	0.00400	<0.125	Default	
		DH5	6.01	0.0040	6.04	0.00402	<0.125	Default	
BT_π/4-DQPSK	2402	2DH1	5.68	0.0037	5.72	0.00373	<0.125	Default	
		2DH3	5.69	0.0037	8.05	0.00638	<0.125	Default	
		2DH5	5.72	0.0037	8.11	0.00647	<0.125	Default	
	2441	2DH1	5.85	0.0038	5.89	0.00388	<0.125	Default	
		2DH3	5.87	0.0039	8.25	0.00668	<0.125	Default	
		2DH5	5.90	0.0039	8.29	0.00675	<0.125	Default	
	2480	2DH1	6.00	0.0040	6.03	0.00401	<0.125	Default	
		2DH3	6.02	0.0040	8.37	0.00687	<0.125	Default	
		2DH5	6.05	0.0040	8.40	0.00692	<0.125	Default	
BT_8DPSK	2402	3DH1	5.70	0.0037	8.59	0.00723	<0.125	Default	
		3DH3	5.73	0.0037	8.62	0.00728	<0.125	Default	
		3DH5	5.74	0.0037	8.65	0.00733	<0.125	Default	
	2441	3DH1	5.89	0.0039	8.68	0.00738	<0.125	Default	
		3DH3	5.90	0.0039	8.71	0.00743	<0.125	Default	
		3DH5	5.93	0.0039	8.72	0.00745	<0.125	Default	
	2480	3DH1	6.01	0.0040	8.81	0.00760	<0.125	Default	
		3DH3	6.04	0.0040	8.83	0.00764	<0.125	Default	
		3DH5	6.06	0.0040	8.84	0.00766	<0.125	Default	

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	0.963	0.889
	2441	0.963	0.875
	2480	0.962	0.886
BT_8DPSK	2402	1.308	1.209
	2441	1.310	1.211
	2480	1.309	1.210

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	1.314	≥ 0.642
	2441	0.982	≥ 0.642
	2480	0.994	≥ 0.641
BT_8DPSK	2402	1.162	≥ 0.872
	2441	1.006	≥ 0.873
	2480	0.990	≥ 0.873

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)	1.700 ms
	Dwell Times on Cycle (1) * (2)	271.823 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)	0.440 ms
	Dwell Times on Cycle (1) * (2)	140.848 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)	1.700 ms
	Dwell Times on Cycle (1) * (2)	271.823 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