

Appendix A. Test Data Right

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			
BT_GFSK	2402	DH1	6.45	0.0044	6.81	0.00480	<0.125	0x00	AWBTRDLAB/1.0.3.1
		DH3	6.50	0.0045	6.82	0.00481	<0.125	0x00	
		DH5	6.57	0.0045	6.83	0.00482	<0.125	0x00	
	2441	DH1	6.14	0.0041	6.51	0.00448	<0.125	0x00	
		DH3	6.22	0.0042	6.51	0.00448	<0.125	0x00	
		DH5	6.26	0.0042	6.53	0.00450	<0.125	0x00	
	2480	DH1	6.40	0.0044	6.74	0.00472	<0.125	0x00	
		DH3	6.45	0.0044	6.75	0.00473	<0.125	0x00	
		DH5	6.50	0.0045	6.77	0.00475	<0.125	0x00	
BT_π/4-DQPSK	2402	2DH1	6.20	0.0042	7.70	0.00589	<0.125	0x00	
		2DH3	6.19	0.0042	7.69	0.00587	<0.125	0x00	
		2DH5	6.22	0.0042	7.71	0.00590	<0.125	0x00	
	2441	2DH1	5.86	0.0039	7.39	0.00548	<0.125	0x00	
		2DH3	5.88	0.0039	7.40	0.00550	<0.125	0x00	
		2DH5	5.91	0.0039	7.41	0.00551	<0.125	0x00	
	2480	2DH1	6.16	0.0041	7.66	0.00583	<0.125	0x00	
		2DH3	6.14	0.0041	7.65	0.00582	<0.125	0x00	
		2DH5	6.17	0.0041	7.67	0.00585	<0.125	0x00	
BT_8DPSK	2402	3DH1	6.23	0.0042	7.75	0.00596	<0.125	0x00	
		3DH3	6.24	0.0042	7.77	0.00598	<0.125	0x00	
		3DH5	6.28	0.0042	7.79	0.00601	<0.125	0x00	
	2441	3DH1	5.95	0.0039	7.43	0.00553	<0.125	0x00	
		3DH3	5.95	0.0039	7.44	0.00555	<0.125	0x00	
		3DH5	5.99	0.0040	7.48	0.00560	<0.125	0x00	
	2480	3DH1	6.19	0.0042	7.66	0.00583	<0.125	0x00	
		3DH3	6.20	0.0042	7.69	0.00587	<0.125	0x00	
		3DH5	6.23	0.0042	7.73	0.00593	<0.125	0x00	

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	0.9247	0.87069
	2441	0.9270	0.87034
	2480	0.9227	0.87458
BT_8DPSK	2402	1.266	1.2194
	2441	1.268	1.2208
	2480	1.266	1.2207

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	0.994	≥ 0.616
	2441	1.000	≥ 0.618
	2480	1.002	≥ 0.615
BT_8DPSK	2402	1.166	≥ 0.844
	2441	1.010	≥ 0.845
	2480	0.994	≥ 0.844

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)	0.491 ms
	Dwell Times on Cycle (1) * (2)	157.173 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)	1.754 ms
	Dwell Times on Cycle (1) * (2)	280.458 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)	2.999 ms
	Dwell Times on Cycle (1) * (2)	320.317 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)	0.504 ms
	Dwell Times on Cycle (1) * (2)	161.334 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)	1.784 ms
	Dwell Times on Cycle (1) * (2)	285.254 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)	3.014 ms
	Dwell Times on Cycle (1) * (2)	321.919 ms
	Limit (msec)	≤ 400

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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			
BT_GFSK	2402	DH1	7.40	0.0055	7.73	0.00593	<0.125	0x00	AWBTRDLAB/1.0.3.1
		DH3	7.44	0.0055	7.72	0.00592	<0.125	0x00	
		DH5	7.48	0.0056	7.75	0.00596	<0.125	0x00	
	2441	DH1	7.36	0.0054	7.68	0.00586	<0.125	0x00	
		DH3	7.41	0.0055	7.67	0.00585	<0.125	0x00	
		DH5	7.45	0.0056	7.71	0.00590	<0.125	0x00	
	2480	DH1	7.55	0.0057	7.79	0.00601	<0.125	0x00	
		DH3	7.60	0.0058	7.82	0.00605	<0.125	0x00	
		DH5	7.64	0.0058	7.86	0.00611	<0.125	0x00	
BT_π/4-DQPSK	2402	2DH1	7.17	0.0052	8.85	0.00767	<0.125	0x00	
		2DH3	7.19	0.0052	8.88	0.00773	<0.125	0x00	
		2DH5	7.22	0.0053	8.91	0.00778	<0.125	0x00	
	2441	2DH1	7.09	0.0051	8.76	0.00752	<0.125	0x00	
		2DH3	7.12	0.0052	8.80	0.00759	<0.125	0x00	
		2DH5	7.14	0.0052	8.83	0.00764	<0.125	0x00	
	2480	2DH1	7.19	0.0052	8.81	0.00760	<0.125	0x00	
		2DH3	7.27	0.0053	8.86	0.00769	<0.125	0x00	
		2DH5	7.28	0.0053	8.92	0.00780	<0.125	0x00	
BT_8DPSK	2402	3DH1	7.18	0.0052	8.91	0.00778	<0.125	0x00	
		3DH3	7.21	0.0053	8.92	0.00780	<0.125	0x00	
		3DH5	7.24	0.0053	8.95	0.00785	<0.125	0x00	
	2441	3DH1	7.12	0.0051	8.79	0.00757	<0.125	0x00	
		3DH3	7.17	0.0052	8.81	0.00760	<0.125	0x00	
		3DH5	7.18	0.0052	8.86	0.00769	<0.125	0x00	
	2480	3DH1	7.25	0.0053	8.98	0.00791	<0.125	0x00	
		3DH3	7.33	0.0054	9.01	0.00796	<0.125	0x00	
		3DH5	7.39	0.0055	9.03	0.00800	<0.125	0x00	

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	0.8681	0.87058
	2441	0.9269	0.87273
	2480	0.9270	0.87298
BT_8DPSK	2402	1.265	1.2066
	2441	1.267	1.2077
	2480	1.265	1.2076

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	0.998	≥ 0.579
	2441	0.996	≥ 0.618
	2480	0.994	≥ 0.618
BT_8DPSK	2402	1.000	≥ 0.843
	2441	0.998	≥ 0.845
	2480	0.994	≥ 0.844

Time of Occupancy (Dwell Time) Measurement		
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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)	0.486 ms
	Dwell Times on Cycle (1) * (2)	155.572 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)	1.764 ms
	Dwell Times on Cycle (1) * (2)	282.057 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)	$31.6 * 3.38 = 106.808 \text{ (times)}$
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	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)	3.015 ms
	Dwell Times on Cycle (1) * (2)	322.026 ms
	Limit (msec)	≤ 400