

Appendix A: Test Data

Duty cycle						
Mode	Frequency (MHz)	On time (ms)	On+off time (ms)	Duty cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11ah (1M)	903.5	3.480	3.810	91.339	0.393	0.287
802.11ah (2M)	905	1.605	1.959	81.930	0.866	0.623
802.11ah (4M)	906	0.905	1.270	71.260	1.472	1.105
802.11ah (8M)	908	0.576	0.945	60.952	2.150	1.736

Mode	CH	Freq. (MHz)	RF power setting in Test SW				Test SW Version
			Ant-0	Ant-1	Ant-2	Ant-3	
802.11ah (1M)	3	903.5	0.00	-	-	-	mm_rf_tester.exe
802.11ah (1M)	27	915.5	0.00	-	-	-	
802.11ah (1M)	49	926.5	0.00	-	-	-	
802.11ah (2M)	6	905	0.00	-	-	-	
802.11ah (2M)	26	915	0.00	-	-	-	
802.11ah (2M)	46	925	0.00	-	-	-	
802.11ah (4M)	8	906	0.00	-	-	-	
802.11ah (4M)	24	914	0.00	-	-	-	
802.11ah (4M)	40	922	0.00	-	-	-	
802.11ah (8M)	12	908	0.00	-	-	-	
802.11ah (8M)	28	916	0.00	-	-	-	

Mode	CH	Freq. (MHz)	Avg Conducted Power (dBm)					Conducted Power Limit (dBm)				
			Ant-0	Ant-1	Ant-2	Ant-3	SUM	Ant-0	Ant-1	Ant-2	Ant-3	SUM
802.11ah (1M)	3	903.5	21.24	-	-	-	-	30.00	-	-	-	-
802.11ah (1M)	27	915.5	20.97	-	-	-	-	30.00	-	-	-	-
802.11ah (1M)	49	926.5	20.58	-	-	-	-	30.00	-	-	-	-
802.11ah (2M)	6	905	21.03	-	-	-	-	30.00	-	-	-	-
802.11ah (2M)	26	915	20.72	-	-	-	-	30.00	-	-	-	-
802.11ah (2M)	46	925	20.33	-	-	-	-	30.00	-	-	-	-
802.11ah (4M)	8	906	20.83	-	-	-	-	30.00	-	-	-	-
802.11ah (4M)	24	914	20.57	-	-	-	-	30.00	-	-	-	-
802.11ah (4M)	40	922	20.31	-	-	-	-	30.00	-	-	-	-
802.11ah (8M)	12	908	20.67	-	-	-	-	30.00	-	-	-	-
802.11ah (8M)	28	916	20.42	-	-	-	-	30.00	-	-	-	-

6 dB Bandwidth						
Mode	Freq. (MHz)	6 dB Bandwidth (kHz)				6 dB Bandwidth Min.Limit (kHz)
		Ant-0	Ant-1	Ant-2	Ant-3	
802.11ah (1M)	903.5	803	-	-	-	≥ 500
802.11ah (1M)	915.5	809	-	-	-	≥ 500
802.11ah (1M)	926.5	799	-	-	-	≥ 500
802.11ah (2M)	905	1737	-	-	-	≥ 500
802.11ah (2M)	915	1720	-	-	-	≥ 500
802.11ah (2M)	925	1748	-	-	-	≥ 500
802.11ah (4M)	906	3579	-	-	-	≥ 500
802.11ah (4M)	914	3605	-	-	-	≥ 500
802.11ah (4M)	922	3612	-	-	-	≥ 500
802.11ah (8M)	908	7516	-	-	-	≥ 500
802.11ah (8M)	916	7575	-	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11ah (1M)	903.5	1.187	-	-	-
802.11ah (1M)	915.5	1.168	-	-	-
802.11ah (1M)	926.5	1.177	-	-	-
802.11ah (2M)	905	2.186	-	-	-
802.11ah (2M)	915	2.138	-	-	-
802.11ah (2M)	925	2.098	-	-	-
802.11ah (4M)	906	3.936	-	-	-
802.11ah (4M)	914	3.906	-	-	-
802.11ah (4M)	922	3.888	-	-	-
802.11ah (8M)	908	7.731	-	-	-
802.11ah (8M)	916	7.713	-	-	-

Maximum Power Spectral Density Measurement					
Mode	Freq. (MHz)	Measurement (dBm/ 3 kHz)	Duty Factor (dB)	Calculated (dBm/ 3 kHz)	Max.Limit (dBm/ 3 kHz)
		Ant-0	Ant-0	Ant-0	Ant-0
802.11ah (1M)	903.5	2.37	0.39	2.77	8.00
802.11ah (1M)	915.5	2.01	0.39	2.41	8.00
802.11ah (1M)	926.5	1.38	0.39	1.78	8.00
802.11ah (2M)	905	-2.22	0.87	-1.35	8.00
802.11ah (2M)	915	-2.44	0.87	-1.57	8.00
802.11ah (2M)	925	-2.92	0.87	-2.06	8.00
802.11ah (4M)	906	-5.82	1.47	-4.35	8.00
802.11ah (4M)	914	-5.79	1.47	-4.32	8.00
802.11ah (4M)	922	-6.58	1.47	-5.10	8.00
802.11ah (8M)	908	-9.54	2.15	-7.39	8.00
802.11ah (8M)	916	-9.90	2.15	-7.75	8.00