

Appendix A: Test Results

APPENDIX A: TEST RESULTS	1
APPENDIX A.1: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS, BLUETOOTH LE.....	2
30 MHz - 1GHz	2
1GHz - 18GHz	6
APPENDIX A.2: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS, BLUETOOTH LE	18
APPENDIX A.3: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS, 2.4GHz Wi-Fi	26
30 MHz - 1GHz	26
1GHz - 18GHz	28
APPENDIX A.4: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS, 2.4GHz Wi-Fi	52
APPENDIX A.5: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS.....	68

Appendix A.1: Test Results of Radiated Spurious Emissions, Bluetooth LE

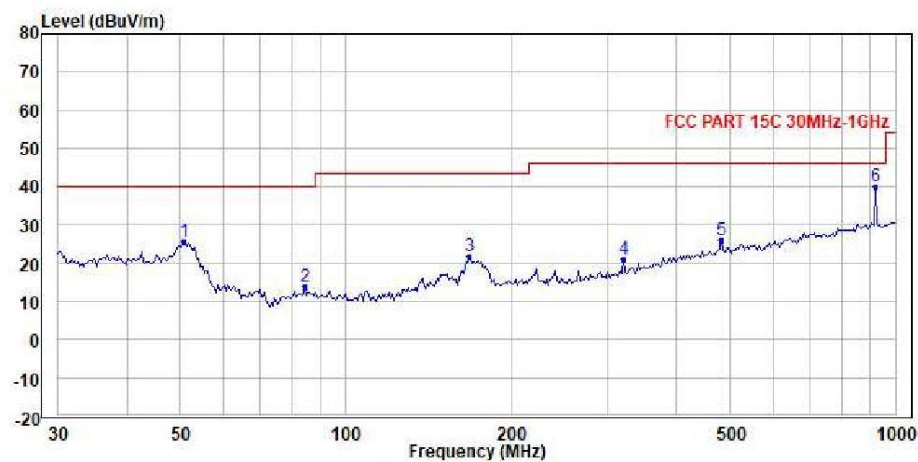
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz



Shenzhen UnionTrust Quality and Technology Co., Ltd.

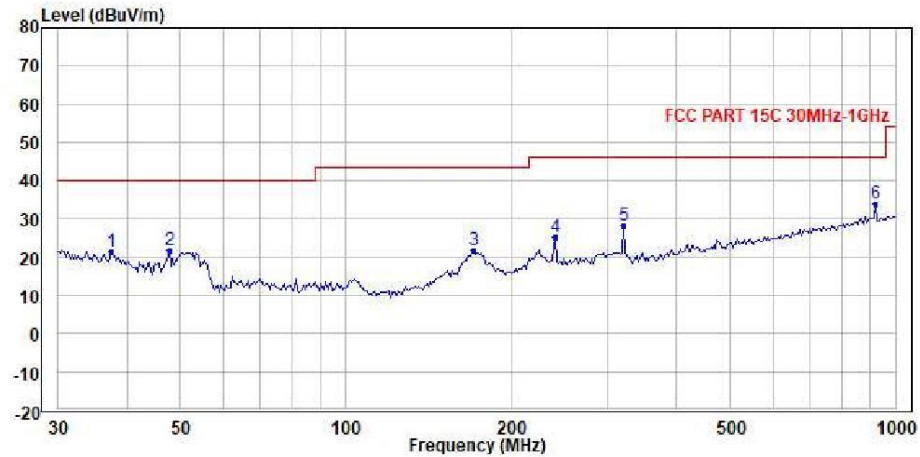


Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : BLE_LINK
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	50.817	25.70	39.56	14.25	0.00	0.79	28.90	40.00	-14.30	Peak
2	84.284	14.02	31.36	10.59	0.00	0.97	28.90	40.00	-25.98	Peak
3	167.814	21.67	33.89	15.44	0.00	1.31	28.97	43.50	-21.83	Peak
4	320.331	21.21	29.50	19.13	0.00	1.70	29.12	46.00	-24.79	Peak
5	481.511	26.13	29.19	24.23	0.00	2.03	29.32	46.00	-19.87	Peak
6 PP	919.132	39.96	35.02	31.10	0.00	2.86	29.02	46.00	-6.04	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

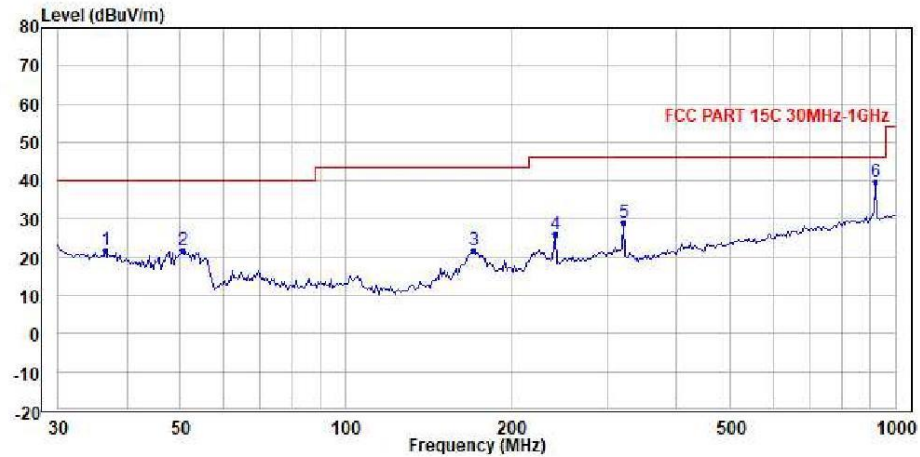


Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : BLE_LINK
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	37.565	21.55	28.70	20.93	0.00	0.82	28.90	40.00	-18.45	Peak
2	47.703	22.01	35.11	14.99	0.00	0.81	28.90	40.00	-17.99	Peak
3	171.389	21.85	33.60	15.90	0.00	1.32	28.97	43.50	-21.65	Peak
4	240.144	25.32	35.94	16.90	0.00	1.52	29.04	46.00	-20.68	Peak
5	320.331	28.34	36.63	19.13	0.00	1.70	29.12	46.00	-17.66	Peak
6 PP	919.132	33.93	28.99	31.10	0.00	2.86	29.02	46.00	-12.07	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

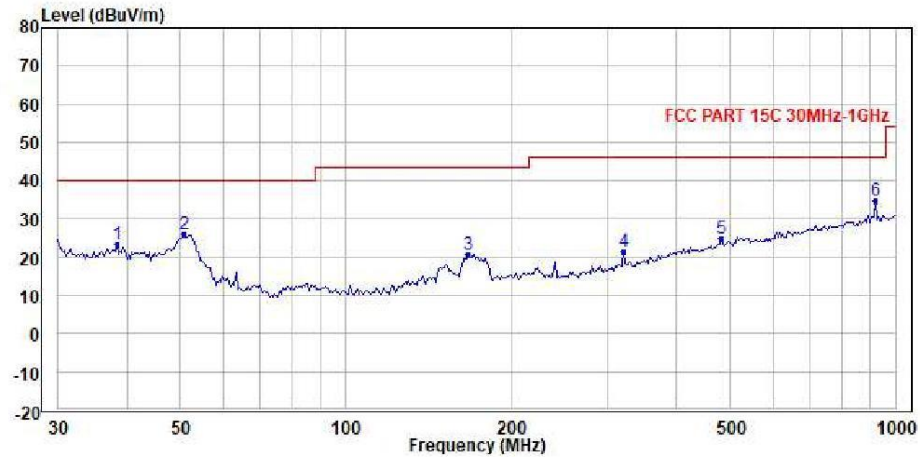


Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2LE_LINK
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	36.524	21.80	28.67	21.24	0.00	0.79	28.90	40.00	-18.20	Peak
2	50.461	22.00	35.75	14.36	0.00	0.79	28.90	40.00	-18.00	Peak
3	171.389	21.88	33.63	15.90	0.00	1.32	28.97	43.50	-21.62	Peak
4	240.144	25.82	36.44	16.90	0.00	1.52	29.04	46.00	-20.18	Peak
5	320.331	29.18	37.47	19.13	0.00	1.70	29.12	46.00	-16.82	Peak
6 PP	919.132	39.74	34.80	31.10	0.00	2.86	29.02	46.00	-6.26	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.



Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2LE_LINK
Remark :

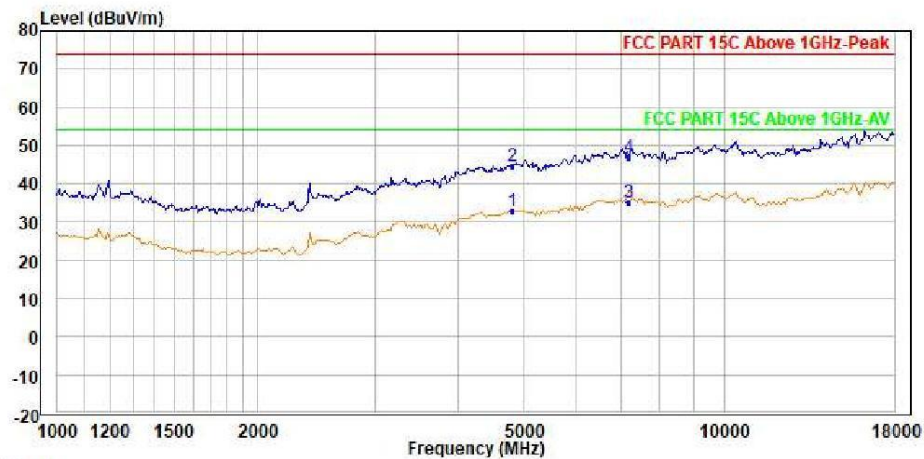
	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	38.365	23.53	31.05	20.54	0.00	0.84	28.90	40.00	-16.47	Peak
2	50.817	25.98	39.84	14.25	0.00	0.79	28.90	40.00	-14.02	Peak
3	166.639	20.77	33.35	15.09	0.00	1.30	28.97	43.50	-22.73	Peak
4	320.331	21.39	29.68	19.13	0.00	1.70	29.12	46.00	-24.61	Peak
5	481.511	24.96	28.02	24.23	0.00	2.03	29.32	46.00	-21.04	Peak
6 PP	919.132	34.60	29.66	31.10	0.00	2.86	29.02	46.00	-11.40	Peak

1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.



Shenzhen UnionTrust Quality and Technology Co., Ltd.

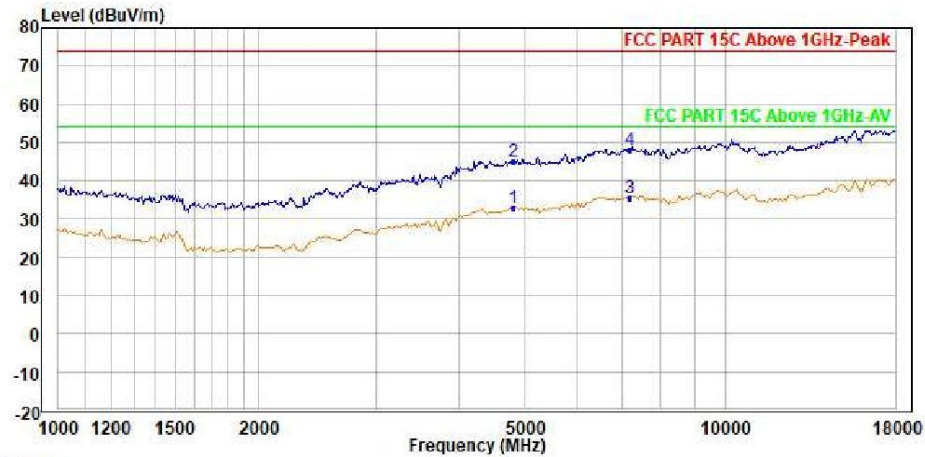


Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : BLE_2402
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4804.000	33.01	35.09	34.46	0.00	9.32	45.86	54.00	-20.99	Average
2	4804.000	44.73	46.81	34.46	0.00	9.32	45.86	74.00	-29.27	Peak
3 PP	7206.000	35.21	33.91	36.50	0.00	10.34	45.54	54.00	-18.79	Average
4 PK	7206.000	47.07	45.77	36.50	0.00	10.34	45.54	74.00	-26.93	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

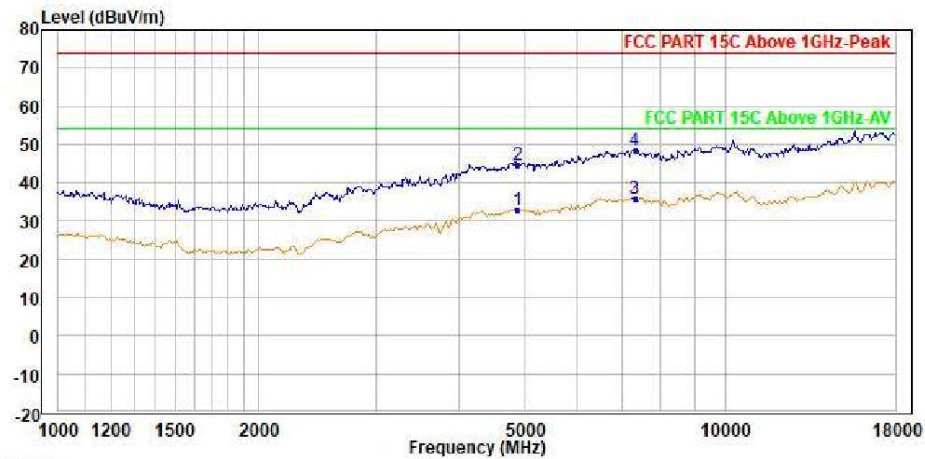


Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : BLE_2402
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4804.000	32.94	35.02	34.46	0.00	9.32	45.86	54.00	-21.06	Average
2	4804.000	45.15	47.23	34.46	0.00	9.32	45.86	74.00	-28.85	Peak
3	PP 7206.000	35.36	34.06	36.50	0.00	10.34	45.54	54.00	-18.64	Average
4	PK 7206.000	47.91	46.61	36.50	0.00	10.34	45.54	74.00	-26.09	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

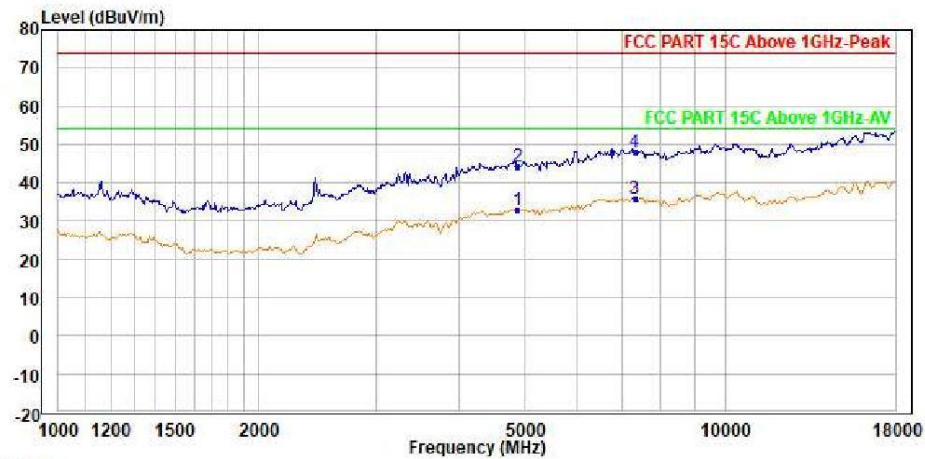


Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : BLE_2440
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4880.000	32.92	34.97	34.48	0.00	9.35	45.88	54.00	-21.08	Average
2	4880.000	44.52	46.57	34.48	0.00	9.35	45.88	74.00	-29.48	Peak
3 PP	7320.000	35.85	34.54	36.50	0.00	10.37	45.56	54.00	-18.15	Average
4 PK	7320.000	48.31	47.00	36.50	0.00	10.37	45.56	74.00	-25.69	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

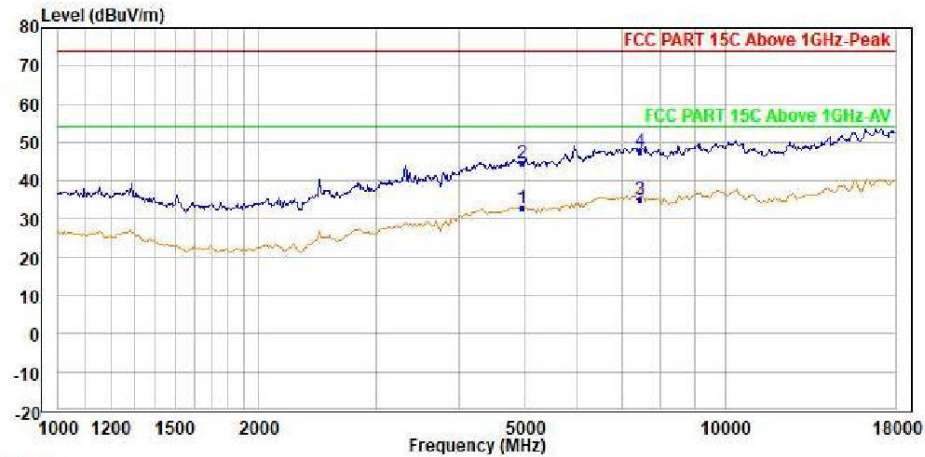


Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : BLE_2440
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4880.000	33.00	35.05	34.48	0.00	9.35	45.88	54.00	-21.00	Average
2	4880.000	44.29	46.34	34.48	0.00	9.35	45.88	74.00	-29.71	Peak
3 PP	7320.000	35.85	34.54	36.50	0.00	10.37	45.56	54.00	-18.15	Average
4 PK	7320.000	48.11	46.80	36.50	0.00	10.37	45.56	74.00	-25.89	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

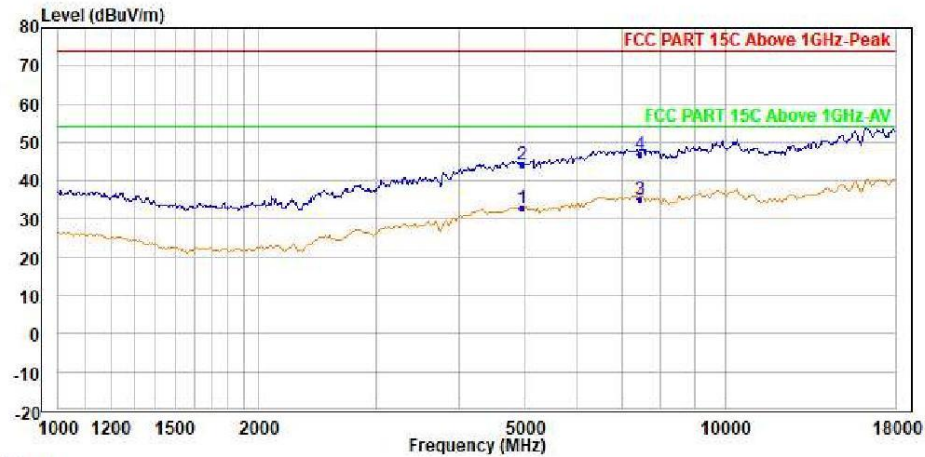


Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : BLE_2480
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4960.000	32.70	34.72	34.49	0.00	9.38	45.89	54.00	-21.30	Average
2	4960.000	44.77	46.79	34.49	0.00	9.38	45.89	74.00	-29.23	Peak
3 PP	7440.000	35.24	33.92	36.50	0.00	10.41	45.59	54.00	-18.76	Average
4 PK	7440.000	47.67	46.35	36.50	0.00	10.41	45.59	74.00	-26.33	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

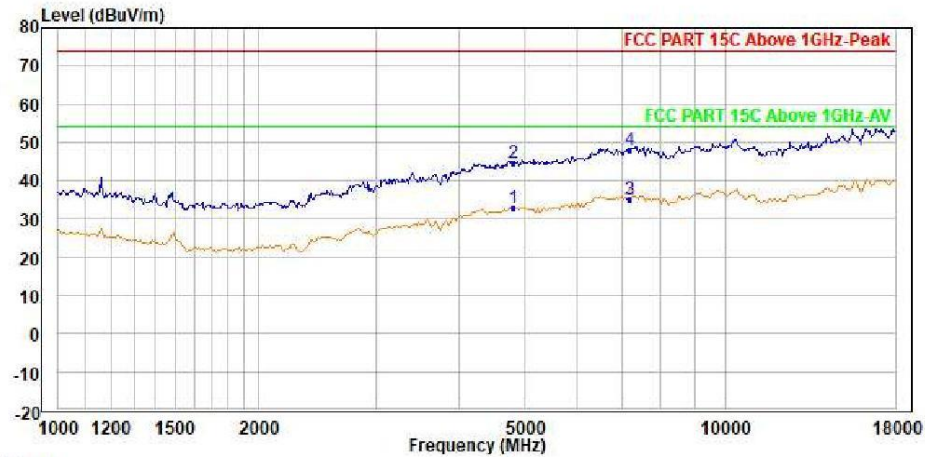


Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : BLE_2480
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4960.000	32.78	34.80	34.49	0.00	9.38	45.89	54.00	-21.22	Average
2	4960.000	44.41	46.43	34.49	0.00	9.38	45.89	74.00	-29.59	Peak
3 PP	7440.000	35.27	33.95	36.50	0.00	10.41	45.59	54.00	-18.73	Average
4 PK	7440.000	46.98	45.66	36.50	0.00	10.41	45.59	74.00	-27.02	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

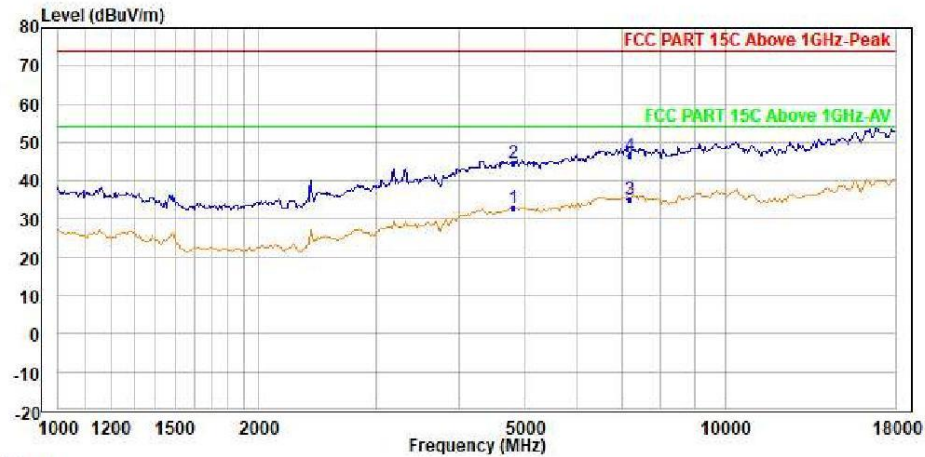


Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2LE_2402
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4804.000	32.99	35.07	34.46	0.00	9.32	45.86	54.00	-21.01	Average
2	4804.000	44.51	46.59	34.46	0.00	9.32	45.86	74.00	-29.49	Peak
3 PP	7206.000	35.27	33.97	36.50	0.00	10.34	45.54	54.00	-18.73	Average
4 PK	7206.000	48.04	46.74	36.50	0.00	10.34	45.54	74.00	-25.96	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

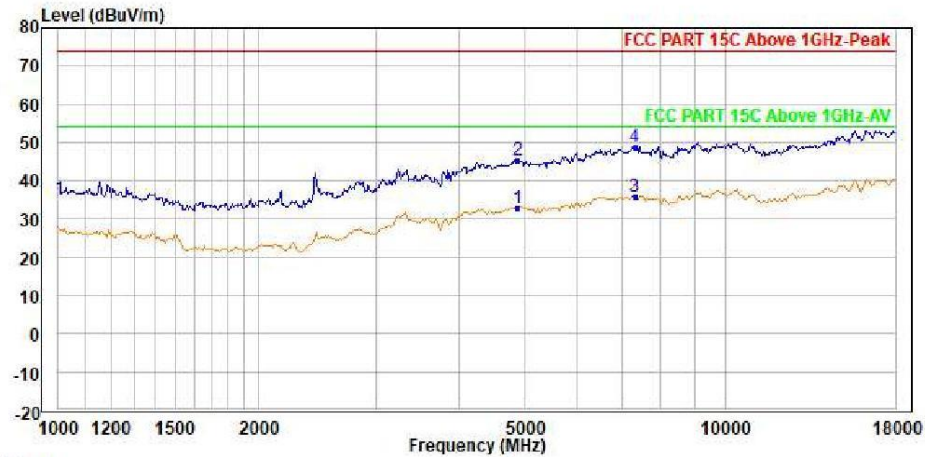


Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2LE_2402
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4804.000	32.89	34.97	34.46	0.00	9.32	45.86	54.00	-21.11	Average
2	4804.000	44.72	46.80	34.46	0.00	9.32	45.86	74.00	-29.28	Peak
3	PP 7206.000	35.16	33.86	36.50	0.00	10.34	45.54	54.00	-18.84	Average
4	PK 7206.000	46.59	45.29	36.50	0.00	10.34	45.54	74.00	-27.41	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

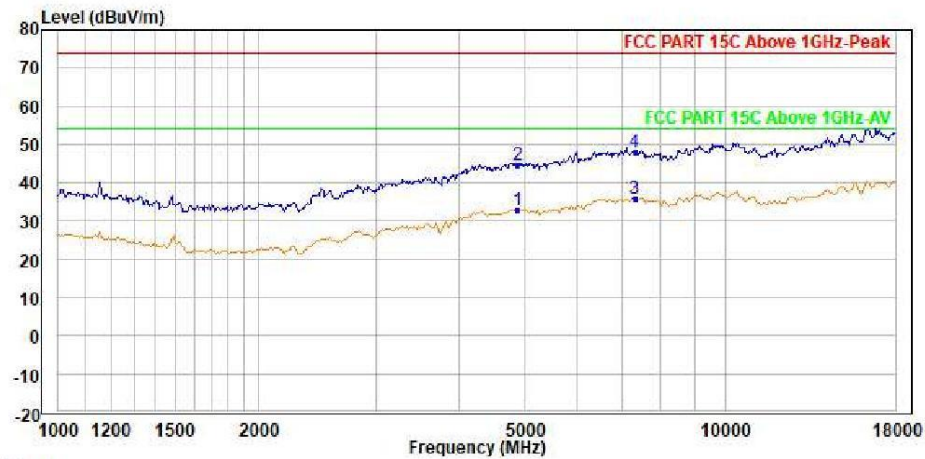


Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2LE_2440
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4880.000	32.94	34.99	34.48	0.00	9.35	45.88	54.00	-21.06	Average
2	4880.000	45.43	47.48	34.48	0.00	9.35	45.88	74.00	-28.57	Peak
3 PP	7320.000	35.74	34.43	36.50	0.00	10.37	45.56	54.00	-18.26	Average
4 PK	7320.000	48.78	47.47	36.50	0.00	10.37	45.56	74.00	-25.22	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

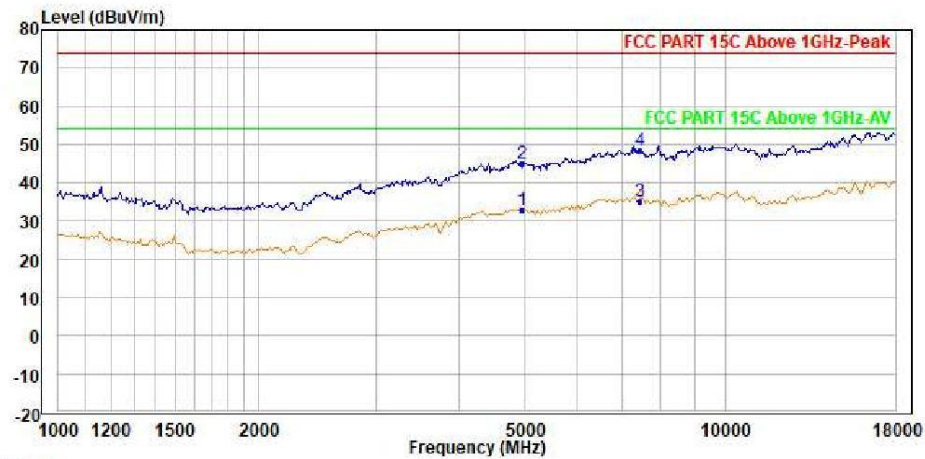


Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2LE_2440
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4880.000	33.02	35.07	34.48	0.00	9.35	45.88	54.00	-20.98	Average
2	4880.000	44.51	46.56	34.48	0.00	9.35	45.88	74.00	-29.49	Peak
3 PP	7320.000	35.79	34.48	36.50	0.00	10.37	45.56	54.00	-18.21	Average
4 PK	7320.000	48.08	46.77	36.50	0.00	10.37	45.56	74.00	-25.92	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

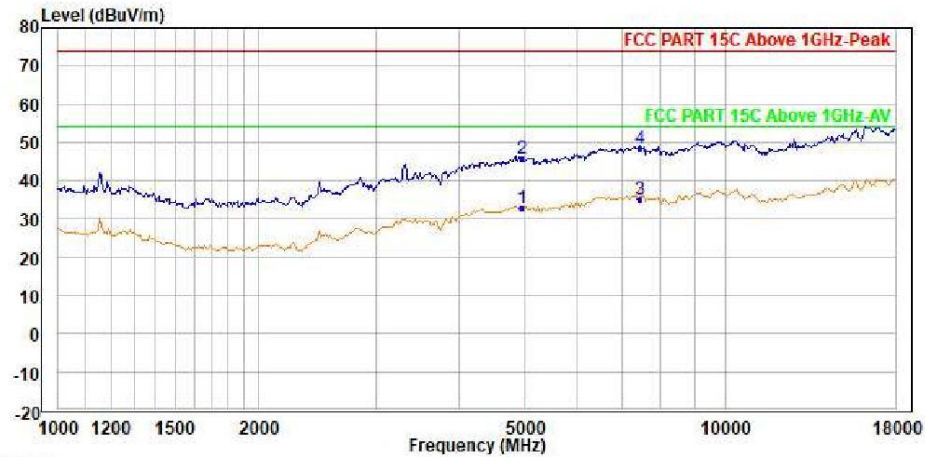


Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2LE_2480
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4960.000	32.81	34.83	34.49	0.00	9.38	45.89	54.00	-21.19	Average
2	4960.000	45.06	47.08	34.49	0.00	9.38	45.89	74.00	-28.94	Peak
3	PP 7440.000	35.27	33.95	36.50	0.00	10.41	45.59	54.00	-18.73	Average
4	PK 7440.000	48.58	47.26	36.50	0.00	10.41	45.59	74.00	-25.42	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.



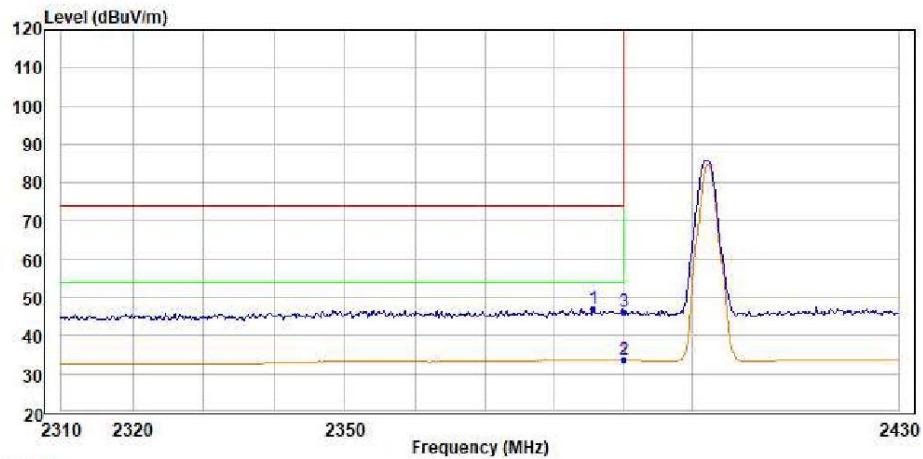
Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2LE_2480
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4960.000	32.91	34.93	34.49	0.00	9.38	45.89	54.00	-21.09	Average
2	4960.000	45.67	47.69	34.49	0.00	9.38	45.89	74.00	-28.33	Peak
3 PP	7440.000	35.30	33.98	36.50	0.00	10.41	45.59	54.00	-18.70	Average
4 PK	7440.000	48.49	47.17	36.50	0.00	10.41	45.59	74.00	-25.51	Peak

Appendix A.2: Test Results of Radiated Emissions in Restricted Bands, Bluetooth LE



Shenzhen UnionTrust Quality and Technology Co., Ltd.

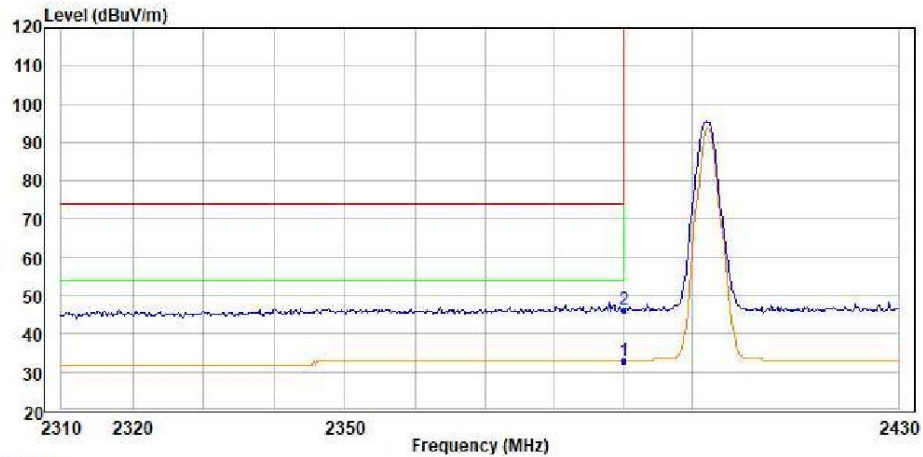


Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%) : 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : BLE_2402
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	PK 2385.631	47.08	45.59	31.54	10.00	7.35	47.40	74.00	-26.92	Peak
2	PP 2390.000	33.60	32.10	31.55	10.00	7.35	47.40	54.00	-20.40	Average
3	2390.000	46.24	44.74	31.55	10.00	7.35	47.40	74.00	-27.76	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

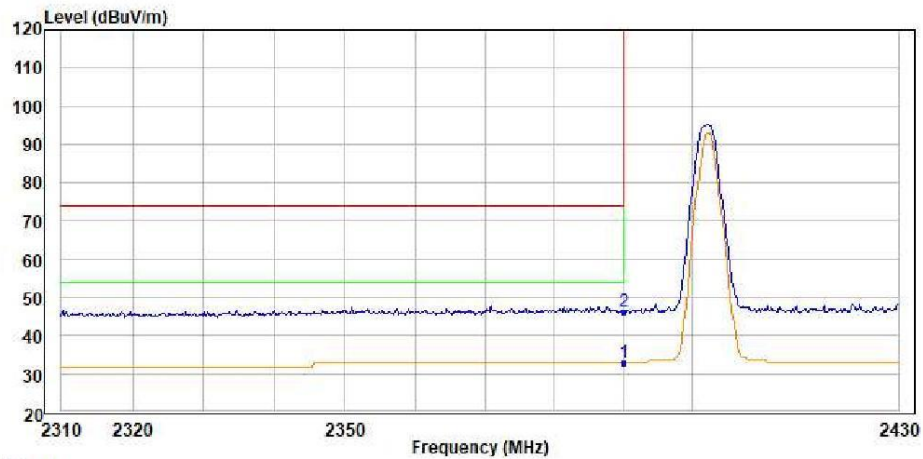


Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : BLE_2402
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1 PP	2390.000	32.93	31.43	31.55	10.00	7.35	47.40	54.00	-21.07	Average
2 PK	2390.000	46.29	44.79	31.55	10.00	7.35	47.40	74.00	-27.71	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.



Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.2(C)/59.8(%)
Press : 99.7kpa
Product : ThermoMaven G4
Model No. : WT09
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2LE_2402
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	PP 2390.000	32.93	31.43	31.55	10.00	7.35	47.40	54.00	-21.07	Average
2	PK 2390.000	46.17	44.67	31.55	10.00	7.35	47.40	74.00	-27.83	Peak