

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

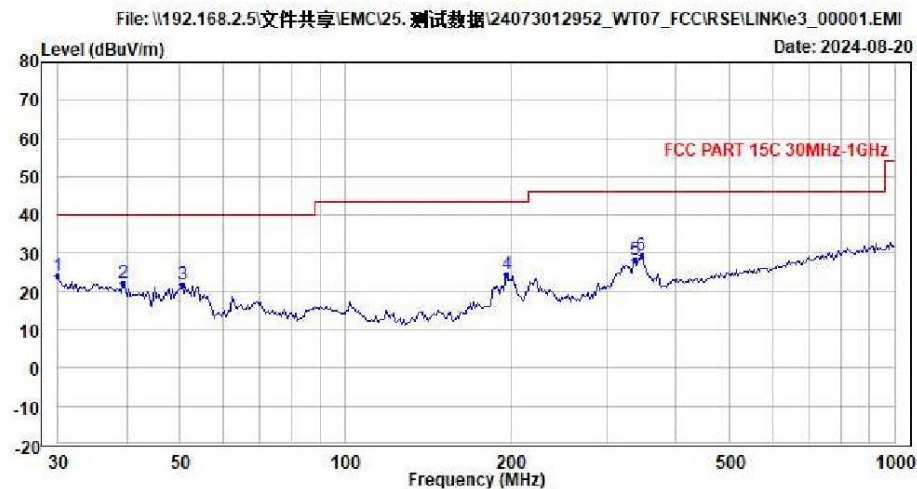
Note:

- 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.

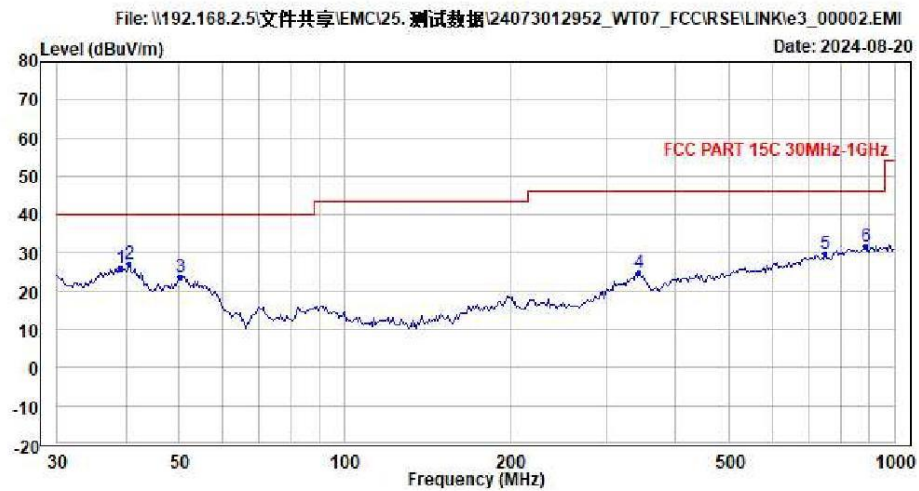


Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : BLE_LINK
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	PP	30.000	24.16	28.24	24.20	0.62	0.00	28.90	40.00	-15.84 Peak
2		39.459	22.23	30.62	19.64	0.87	0.00	28.90	40.00	-17.77 Peak
3		50.461	21.67	35.42	14.36	0.79	0.00	28.90	40.00	-18.33 Peak
4		197.251	24.41	35.62	16.37	1.42	0.00	29.00	43.50	-19.09 Peak
5		336.482	28.31	35.78	19.93	1.74	0.00	29.14	46.00	-17.69 Peak
6		346.074	29.27	36.21	20.44	1.77	0.00	29.15	46.00	-16.73 Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

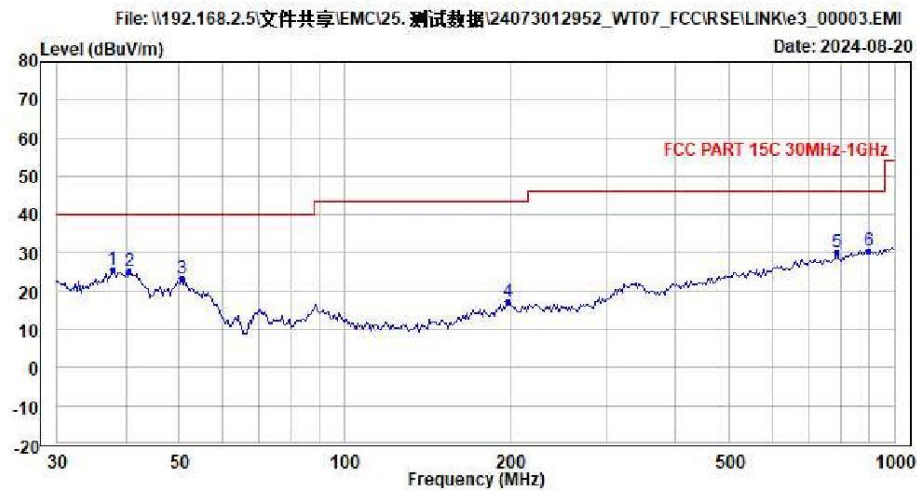


Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : BLE_LINK
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	39.182	26.14	34.26	19.92	0.86	0.00	28.90	40.00	-13.86	Peak
2 PP	40.584	27.16	36.27	18.92	0.87	0.00	28.90	40.00	-12.84	Peak
3	50.108	23.84	37.48	14.47	0.79	0.00	28.90	40.00	-16.16	Peak
4	343.651	24.84	31.93	20.29	1.76	0.00	29.14	46.00	-21.16	Peak
5	749.676	29.87	27.79	28.89	2.47	0.00	29.28	46.00	-16.13	Peak
6	887.398	31.88	27.30	30.90	2.75	0.00	29.07	46.00	-14.12	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

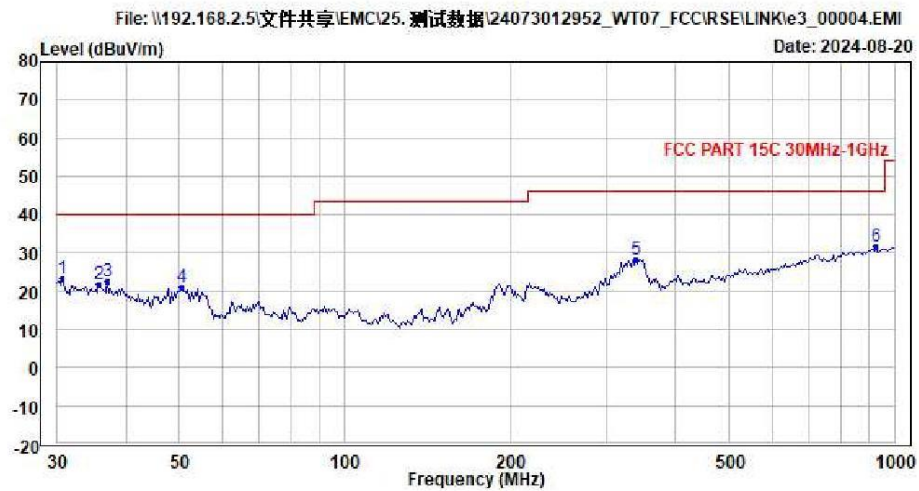


Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : 2LE_LINK
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1 PP	37.830	25.44	32.67	20.85	0.82	0.00	28.90	40.00	-14.56	Peak
2	40.584	25.16	34.27	18.92	0.87	0.00	28.90	40.00	-14.84	Peak
3	50.461	23.34	37.09	14.36	0.79	0.00	28.90	40.00	-16.66	Peak
4	198.642	17.10	28.25	16.43	1.42	0.00	29.00	43.50	-26.40	Peak
5	787.475	30.14	27.42	29.40	2.54	0.00	29.22	46.00	-15.86	Peak
6	899.958	30.75	26.02	31.00	2.78	0.00	29.05	46.00	-15.25	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.



Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : 2LE_LINK
Remark :

	Freq	Level	Read	Ant	Cable	Aux	Preamp	Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
			dBuV	dB/m	dB		dB	dBuV/m	dB	
1	30.639	23.24	28.51	22.99	0.64	0.00	28.90	40.00	-16.76	Peak
2	35.762	21.95	28.68	21.40	0.77	0.00	28.90	40.00	-18.05	Peak
3	37.041	22.53	29.54	21.09	0.80	0.00	28.90	40.00	-17.47	Peak
4	50.461	20.95	34.70	14.36	0.79	0.00	28.90	40.00	-19.05	Peak
5	338.855	28.29	35.70	19.98	1.75	0.00	29.14	46.00	-17.71	Peak
6 PP	925.613	31.71	26.84	30.99	2.89	0.00	29.01	46.00	-14.29	Peak

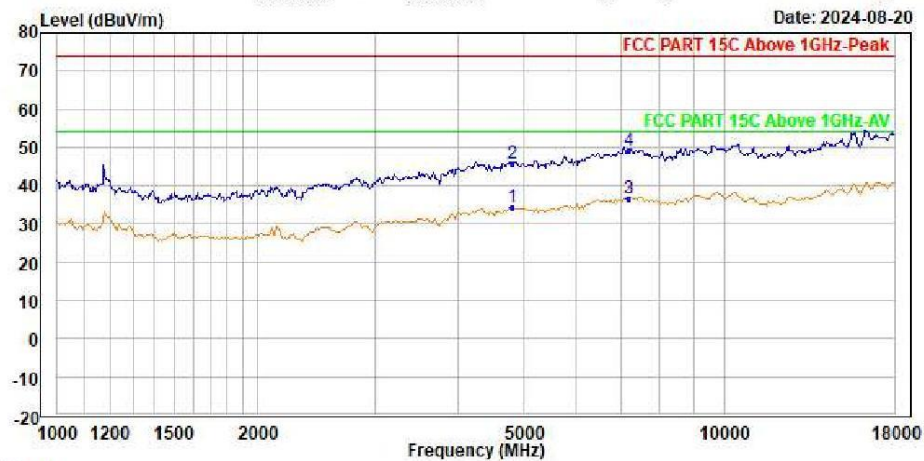
1GHz - 18GHz

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



Shenzhen UnionTrust Quality and Technology Co., Ltd.

File: \\192.168.2.5\文件共享\EMC\25. 测试数据\24073012952_WT07_FCC\IRSE\BLE+2LE\IRSE\le3_00001.EMI



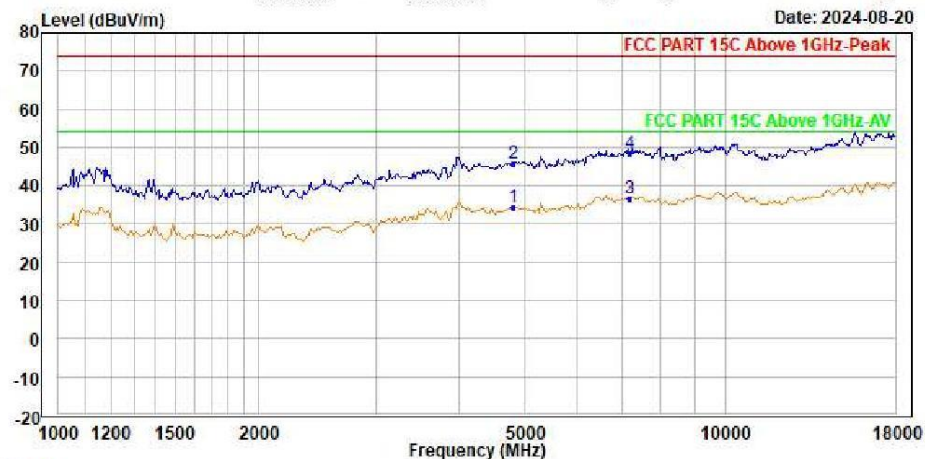
Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : BLE_2402
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4804.000	34.27	36.35	34.46	9.32	0.00	45.86	54.00	-19.73	Average
2	4804.000	45.81	47.89	34.46	9.32	0.00	45.86	74.00	-28.19	Peak
3 PP	7206.000	36.61	35.31	36.50	10.34	0.00	45.54	54.00	-17.39	Average
4 PK	7206.000	49.23	47.93	36.50	10.34	0.00	45.54	74.00	-24.77	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

File: \\192.168.2.5\文件共享\EMC\25. 测试数据\24073012952_WT07_FCC\IRSE\BLE+2LE\IRSE\le3_00003.EMI



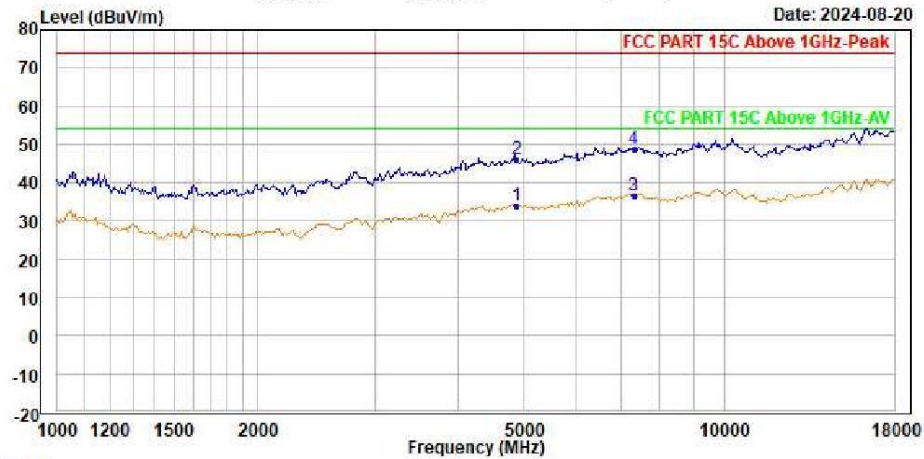
Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : BLE_2402
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4804.000	34.29	36.37	34.46	9.32	0.00	45.86	54.00	-19.71	Average
2	4804.000	45.75	47.83	34.46	9.32	0.00	45.86	74.00	-28.25	Peak
3	PP 7206.000	36.76	35.46	36.50	10.34	0.00	45.54	54.00	-17.24	Average
4	PK 7206.000	48.30	47.00	36.50	10.34	0.00	45.54	74.00	-25.70	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

File: \\192.168.2.5\文件共享\EMC\25. 测试数据\24073012952_WT07_FCC\IRSE\BLE+2LE\IRSE\le3_00005.EMI



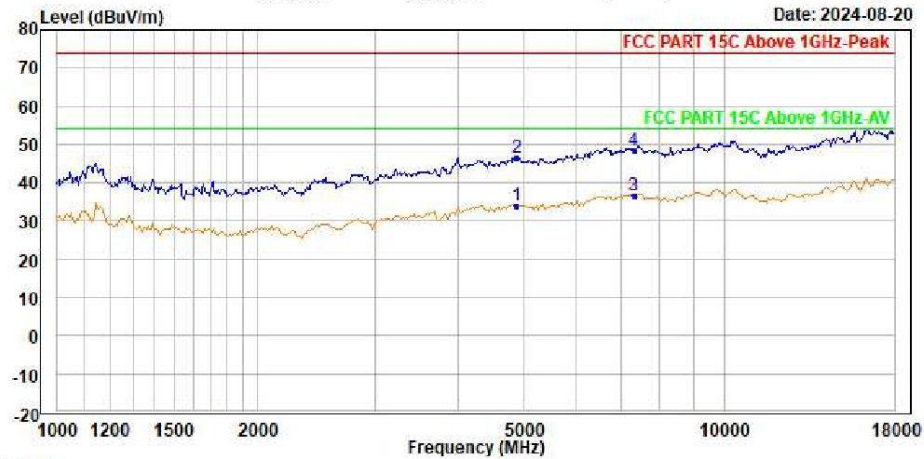
Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : BLE_2440
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4880.000	34.12	36.17	34.48	9.35	0.00	45.88	54.00	-19.88	Average
2	4880.000	46.01	48.06	34.48	9.35	0.00	45.88	74.00	-27.99	Peak
3 PP	7320.000	36.75	35.44	36.50	10.37	0.00	45.56	54.00	-17.25	Average
4 PK	7320.000	48.75	47.44	36.50	10.37	0.00	45.56	74.00	-25.25	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

File: \\192.168.2.5\文件共享\EMC\25. 测试数据\24073012952_WT07_FCC\IRSE\BLE+2LE\IRSE\le3_00007.EMI



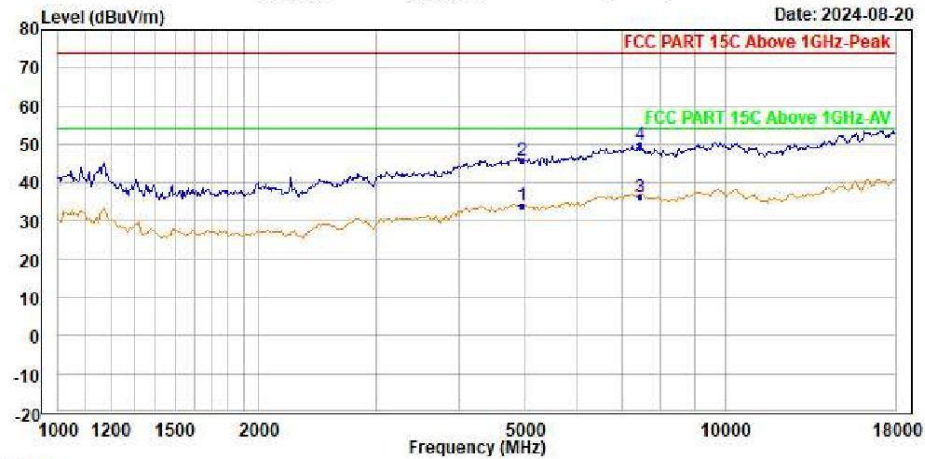
Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : BLE_2440
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4880.000	34.03	36.08	34.48	9.35	0.00	45.88	54.00	-19.97	Average
2	4880.000	46.58	48.63	34.48	9.35	0.00	45.88	74.00	-27.42	Peak
3 PP	7320.000	36.75	35.44	36.50	10.37	0.00	45.56	54.00	-17.25	Average
4 PK	7320.000	48.60	47.29	36.50	10.37	0.00	45.56	74.00	-25.40	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

File: \\192.168.2.5\文件共享\EMC\25. 测试数据\24073012952_WT07_FCC\IRSE\BLE+2LE\IRSE\le3_00009.EMI



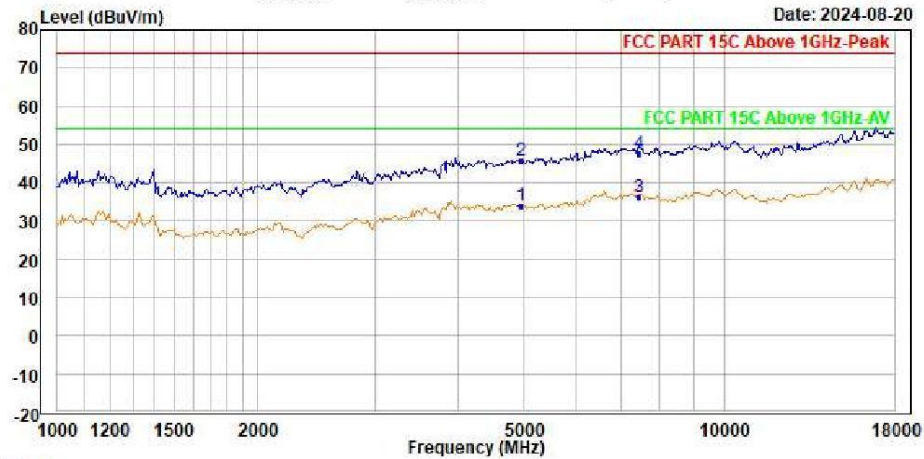
Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : BLE_2480
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4960.000	33.92	35.94	34.49	9.38	0.00	45.89	54.00	-20.08	Average
2	4960.000	45.95	47.97	34.49	9.38	0.00	45.89	74.00	-28.05	Peak
3 PP	7440.000	36.38	35.06	36.50	10.41	0.00	45.59	54.00	-17.62	Average
4 PK	7440.000	49.89	48.57	36.50	10.41	0.00	45.59	74.00	-24.11	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

File: \\192.168.2.5\文件共享\EMC\25. 测试数据\24073012952_WT07_FCC\IRSE\BLE+2LE\IRSE\le3_00011.EMI



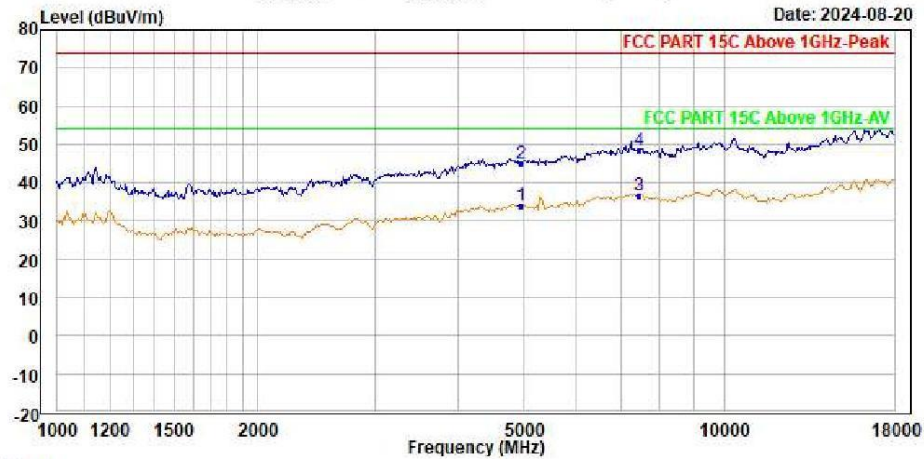
Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : BLE_2480
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4960.000	34.17	36.19	34.49	9.38	0.00	45.89	54.00	-19.83	Average
2	4960.000	45.65	47.67	34.49	9.38	0.00	45.89	74.00	-28.35	Peak
3 PP	7440.000	36.44	35.12	36.50	10.41	0.00	45.59	54.00	-17.56	Average
4 PK	7440.000	47.73	46.41	36.50	10.41	0.00	45.59	74.00	-26.27	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

File: \\192.168.2.5\文件共享\EMC\25. 测试数据\24073012952_WT07_FCC\IRSE\BLE+2LE\IRSE\le3_00013.EMI



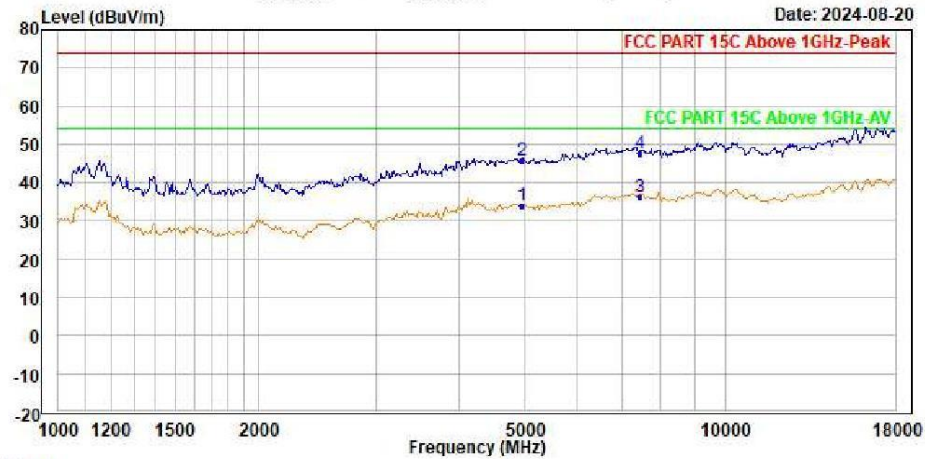
Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : 2LE_2480
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4960.000	33.96	35.98	34.49	9.38	0.00	45.89	54.00	-20.04	Average
2	4960.000	45.15	47.17	34.49	9.38	0.00	45.89	74.00	-28.85	Peak
3 PP	7440.000	36.49	35.17	36.50	10.41	0.00	45.59	54.00	-17.51	Average
4 PK	7440.000	48.43	47.11	36.50	10.41	0.00	45.59	74.00	-25.57	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

File: \\192.168.2.5\文件共享\EMC\25. 测试数据\24073012952_WT07_FCC\IRSE\BLE+2LE\IRSE\le3_00015.EMI



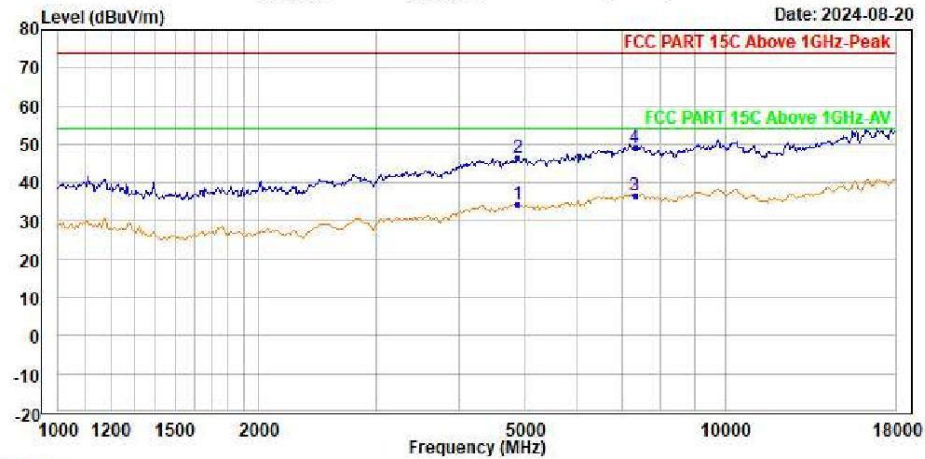
Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : 2LE_2480
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4960.000	34.10	36.12	34.49	9.38	0.00	45.89	54.00	-19.90	Average
2	4960.000	45.72	47.74	34.49	9.38	0.00	45.89	74.00	-28.28	Peak
3 PP	7440.000	36.38	35.06	36.50	10.41	0.00	45.59	54.00	-17.62	Average
4 PK	7440.000	47.81	46.49	36.50	10.41	0.00	45.59	74.00	-26.19	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

File: \\192.168.2.5\文件共享\EMC\25. 测试数据\24073012952_WT07_FCC\IRSE\BLE+2LE\IRSE\le3_00017.EMI



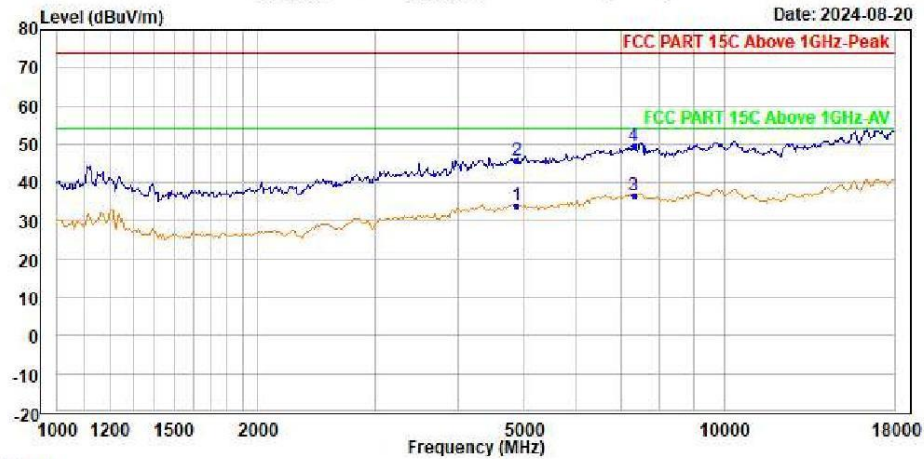
Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : 2LE_2440
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4880.000	34.19	36.24	34.48	9.35	0.00	45.88	54.00	-19.81	Average
2	4880.000	46.58	48.63	34.48	9.35	0.00	45.88	74.00	-27.42	Peak
3 PP	7320.000	36.75	35.44	36.50	10.37	0.00	45.56	54.00	-17.25	Average
4 PK	7320.000	49.31	48.00	36.50	10.37	0.00	45.56	74.00	-24.69	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

File: \\192.168.2.5\文件共享\EMC\25. 测试数据\24073012952_WT07_FCC\IRSE\BLE+2LE\IRSE\le3_00019.EMI



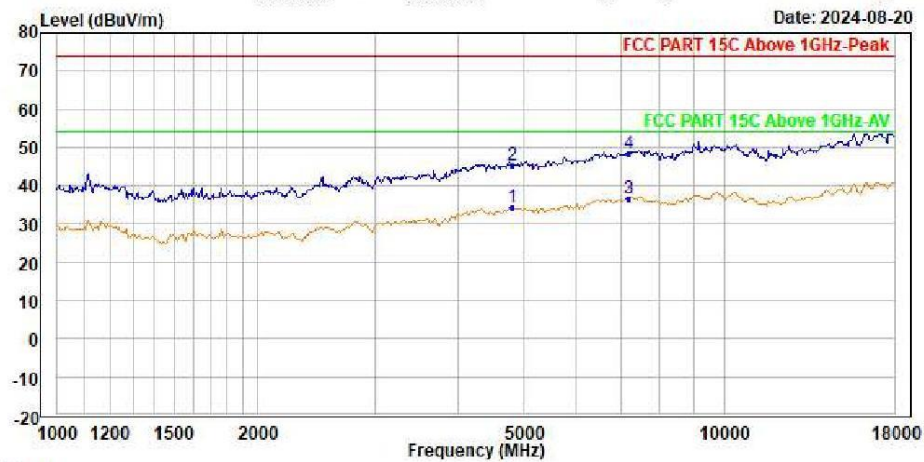
Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : 2LE_2440
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4880.000	34.10	36.15	34.48	9.35	0.00	45.88	54.00	-19.90	Average
2	4880.000	45.97	48.02	34.48	9.35	0.00	45.88	74.00	-28.03	Peak
3 PP	7320.000	36.68	35.37	36.50	10.37	0.00	45.56	54.00	-17.32	Average
4 PK	7320.000	49.47	48.16	36.50	10.37	0.00	45.56	74.00	-24.53	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

File: \\192.168.2.5\文件共享\EMC\25. 测试数据\24073012952_WT07_FCC\IRSE\BLE+2LE\IRSE\le3_00021.EMI



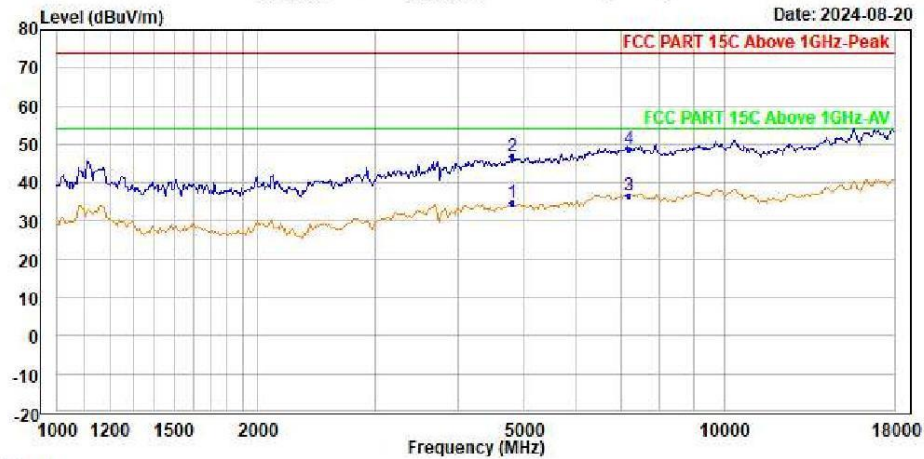
Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : 2LE_2402
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4804.000	34.20	36.28	34.46	9.32	0.00	45.86	54.00	-19.80	Average
2	4804.000	45.38	47.46	34.46	9.32	0.00	45.86	74.00	-28.62	Peak
3 PP	7206.000	36.64	35.34	36.50	10.34	0.00	45.54	54.00	-17.36	Average
4 PK	7206.000	48.41	47.11	36.50	10.34	0.00	45.54	74.00	-25.59	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

File: \\192.168.2.5\文件共享\EMC\25. 测试数据\24073012952_WT07_FCC\IRSE\BLE+2LE\IRSE\le3_00023.EMI



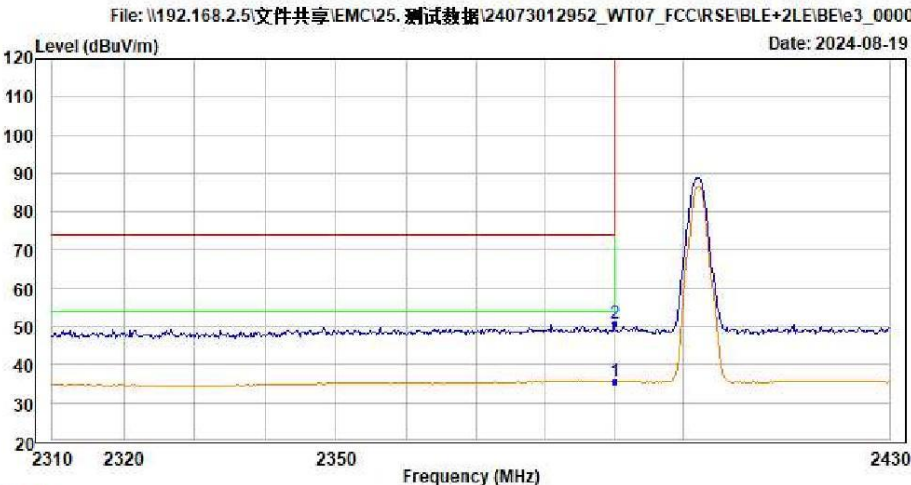
Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : 2LE_2402
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4804.000	34.57	36.65	34.46	9.32	0.00	45.86	54.00	-19.43	Average
2	4804.000	46.82	48.90	34.46	9.32	0.00	45.86	74.00	-27.18	Peak
3	PP 7206.000	36.61	35.31	36.50	10.34	0.00	45.54	54.00	-17.39	Average
4	PK 7206.000	48.82	47.52	36.50	10.34	0.00	45.54	74.00	-25.18	Peak

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



Shenzhen UnionTrust Quality and Technology Co., Ltd.

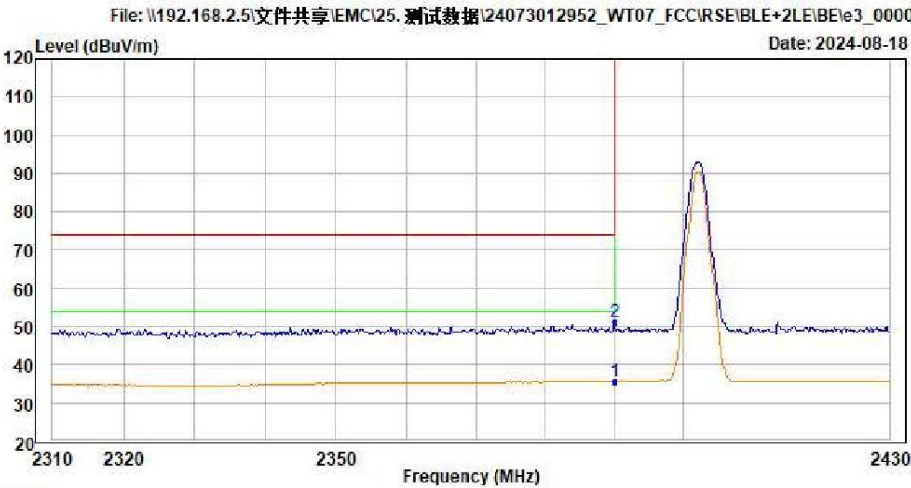


Trace: 1
 Condition : 3m Horizontal
 Temp.(C)/Hum.(%) : 25.8(C)/56.4(%)
 Press : 100.4kpa
 Product : ThermoMaven G2
 Model No. : WT07
 Power Rating : AC 120V/60Hz
 Test Engineer : Fire
 Test Mode : BLE_2402
 Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	PP 2390.000	35.65	34.15	31.55	7.35	10.00	47.40	54.00	-18.35	Average
2	PK 2390.000	50.74	49.24	31.55	7.35	10.00	47.40	74.00	-23.26	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.



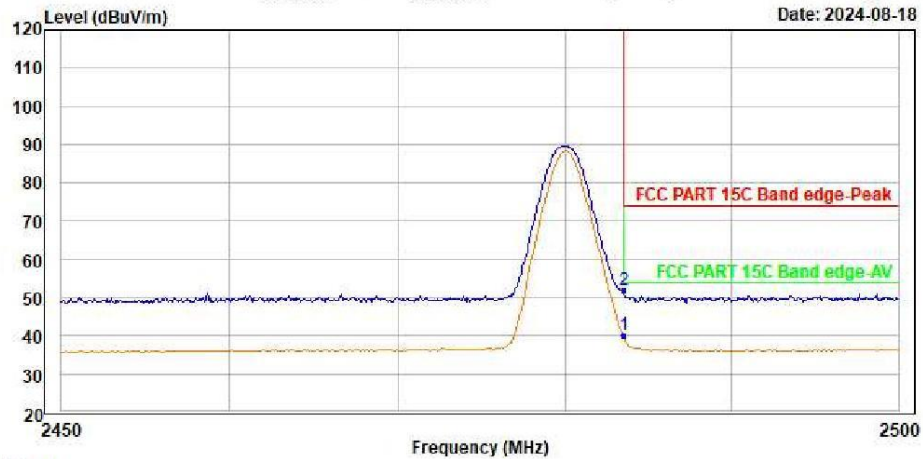
Trace: 1
 Condition : 3m Vertical
 Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
 Press : 100.4kpa
 Product : ThermoMaven G2
 Model No. : WT07
 Power Rating : AC 120V/60Hz
 Test Engineer : Fire
 Test Mode : BLE_2402
 Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	PP 2390.000	35.65	34.15	31.55	7.35	10.00	47.40	54.00	-18.35	Average
2	PK 2390.000	51.18	49.68	31.55	7.35	10.00	47.40	74.00	-22.82	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.

File: \\192.168.2.5\文件共享\EMC\25. 测试数据\24073012952_WT07_FCC\IRSE\BLE+2LE\BLE3_00005.EMI



Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.8(C)/56.4(%)
Press : 100.4kpa
Product : ThermoMaven G2
Model No. : WT07
Power Rating : AC 120V/60Hz
Test Engineer : Fire
Test Mode : BLE_2480
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	PP 2483.500	39.97	38.22	31.68	7.47	10.00	47.40	54.00	-14.03	Average
2	PK 2483.500	51.83	50.08	31.68	7.47	10.00	47.40	74.00	-22.17	Peak