



EMC TEST REPORT



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Manufacturer or Supplier	Sonim Technologies (Shenzhen) Limited
Address	2nd Floor, No. 2 Building Phase B, Daqian Industrial park, Longchang Road, 67 District, Baoan, Shenzhen, P. R. China
Product	LTE phone
Brand Name	Sonim
Model Name	XP5700
FCC ID	WYPL23V013AA
Date of tests	May 25, 2016 ~ Jun. 20, 2016

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

- FCC Part 15, Subpart B, Class B
- ANSI C63.4:2014

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Issued by Amyee Qian Engineer / Mobile Department	Approved by William Chung Manager / Mobile Department
	
Date: Jun. 22, 2016	

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Test Report No.: FV160524W004

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FV160524W004	Original release	Jun. 22, 2016



1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	LTE phone	
MODEL NAME	XP5700	
TYPE NUMBER	L23V013AA	
NOMINAL VOLTAGE	5.0Vdc (adapter or host equipment) 3.7Vdc (Li-ion, battery)	
BATTERY	Brand Name: Sonim Model Name: BAT-03180-01S Power Rating: DC 3.7V, 3180mAh, Li-ion	
MODULATION TYPE	WLAN	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
	Bluetooth	GFSK, $\pi/4$ -DQPSK, 8DPSK
	CDMA	GMSK, 8PSK
	LTE	QPSK/16QAM
OPERATING FREQUENCY	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20) 5180 ~ 5240MHz, 5260 ~ 5320MHz 5500 ~ 5700MHz, 5745 ~ 5805MHz for 11a/ n(HT20)/ n(HT40)
	Bluetooth	2402MHz ~ 2480MHz
	CDMA	824.7MHz ~ 848.31MHz (FOR CDMA2000 BC0) 1851.25MHz ~ 1908.75MHz (FOR CDMA2000 BC1)
	LTE	1850MHz ~ 1910MHz (FOR LTE Band2) 1710MHz ~ 1755MHz (FOR LTE Band4) 777MHz ~ 787MHz (FOR LTE Band13)
HW Version	A	
SW Version	5A.0.0-00-5.1.1-15.17.0	
I/O PORTS	Refer to user's manual	
CABLE	USB cable: shielded, detachable, 1.1m Earphone Cable: Unshielded, Detachable, 1.2m	
ACCESSORY DEVICES	Refer to note as below	

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT was powered by the following adapter:

ADAPTER	
BRAND:	Sonim
MODEL:	S14C02
INPUT:	AC 100-240V, 200mA
OUTPUT:	DC 5V, 1200mA



3. The EUT matched the following USB cable and Earphone:

USB CABLE	
BRAND:	Sunway
MODEL:	N.A
SIGNAL LINE:	1.1 METER

EARPHONE	
BRAND:	Minami
MODEL:	ME-816B5-E
SIGNAL LINE:	1.2 METER

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



1.2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B			
Standard Section	Test Item	Result	Remark
FCC Part 15, Subpart B, Class B ANSI C63.4:2014	Conducted Test	PASS	Meets limits minimum passing margin is 12.33dB at 1.366000MHz.
	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -7.56dB at 148.34MHz
	Radiated Emission Test (Above 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -9.07dB at 5881MHz

1.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz ~ 30MHz	+/-2.66dB
Radiated emissions	30MHz ~ 1GHz	+/-4.06dB
	1GHz ~ 18GHz	+/-4.58dB



1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition
Radiated emission test	
1	CDMA2000 BC0 Idle +Adapter+ Earphone + USB cable + BT Idle + Wifi Idle(2.4G) + GPS Rx
2	CDMA2000 BC1 Idle +Adapter+ Earphone + USB cable + BT Idle + Wifi Idle(5G) + GPS Rx
3	LTE B2 Idle +Adapter+ Earphone + USB cable + BT Idle + Wifi Idle(2.4G) + GPS Rx +FM Rx
4	LTE B4 Idle +Adapter+ Earphone + USB cable + BT Idle + Wifi Idle(5G) + GPS Rx+ Back camera on
5	LTE B13 Idle +USB Link+ Earphone + USB cable + BT Idle + Wifi Idle(2.4G) + GPS Rx +Mpeg4
Conducted emission test	
1	CDMA2000 BC0 Idle +Adapter+ Earphone + USB cable + BT Idle + Wifi Idle(2.4G) + GPS Rx
2	CDMA2000 BC1 Idle +Adapter+ Earphone + USB cable + BT Idle + Wifi Idle(5G) + GPS Rx
3	LTE B2 Idle +Adapter+ Earphone + USB cable + BT Idle + Wifi Idle(2.4G) + GPS Rx +FM Rx
4	LTE B4 Idle +Adapter+ Earphone + USB cable + BT Idle + Wifi Idle(5G) + GPS Rx+ Back camera on
5	LTE B13 Idle +USB Link+ Earphone + USB cable + BT Idle + Wifi Idle(2.4G) + GPS Rx +Mpeg4

NOTE:

1. For conducted emission test, test mode 1 was the worst case and only this mode was presented in this report.
2. For radiated emission test, test mode 5 was the worst case and only this mode was presented in this report.



1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

FOR EMISSION TESTS

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Universal Radio Communication Tester	R&S	CMU200	123259	N/A
2	Wireless AP	ABOCOM	WR224GR	060500749P	D43064
3	Bluetooth Earphone	FAP00	H6080	12098	N/A
4	Notebook	DELL	E6420	9H12FS1	N/A
5	Mouse	DELL	M056UOA	01688082	N/A
6	Printer	HP	hp LaserJet 1300	CNSJF75989	N/A

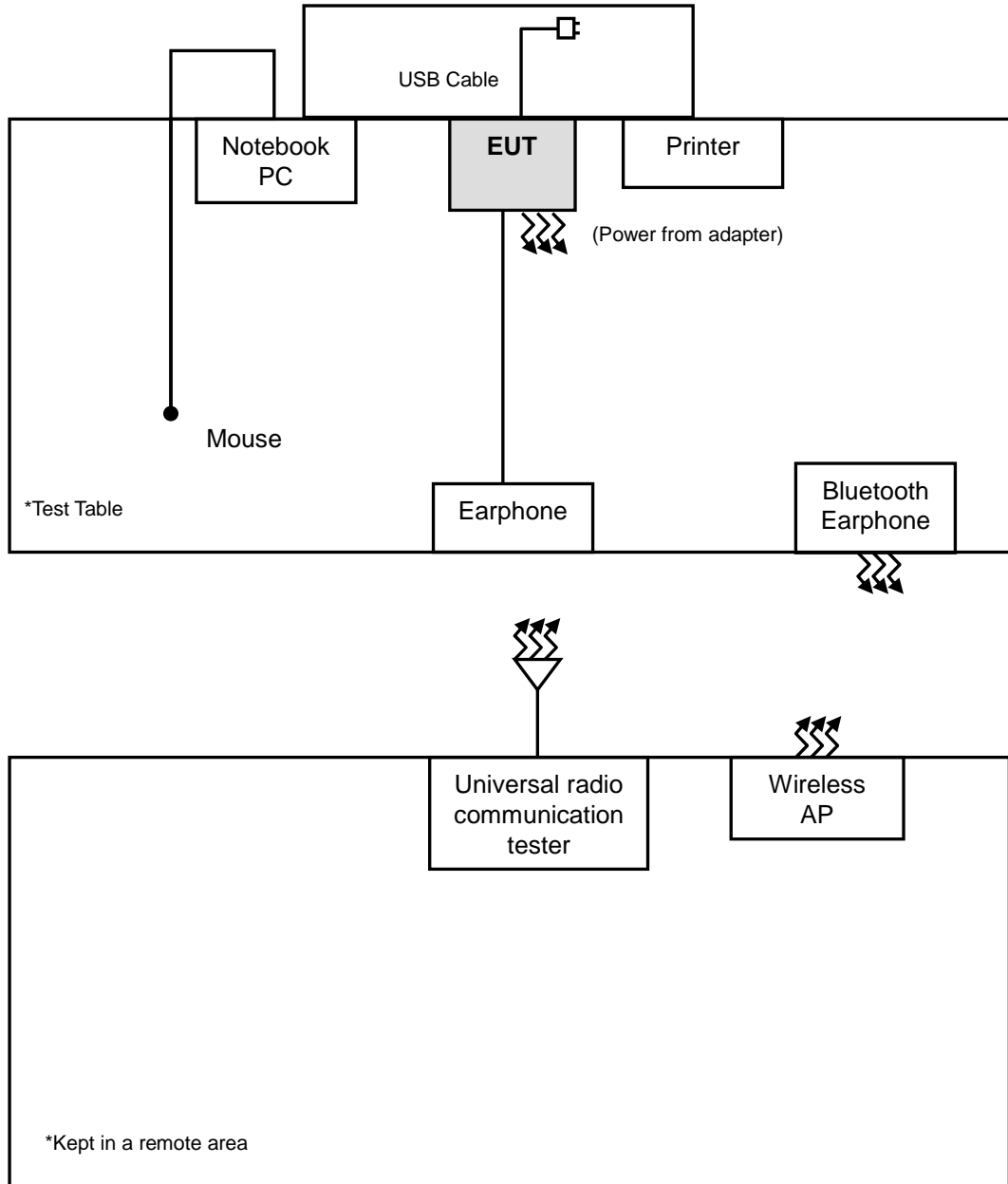
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	N/A
3	N/A
4	DC Line: Unshielded, Undetachable, 2.0m
5	USB Line: Unshielded, Undetachable 1.8m;
6	USB Line: Shielded, Detachable 1.5m;

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Items 3-4 acted as communication partners.



1.6 CONFIGURATION OF SYSTEM UNDER TEST





2 EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE: 1.The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

2.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCS30	100340	May 11,15	May 10,17
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 04,16	Mar. 03,17
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 05,16	Apr. 04,17
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jan. 08,16	Jan. 07,17
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A	N/A

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in Dongguan Shielded Room 553.



2.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

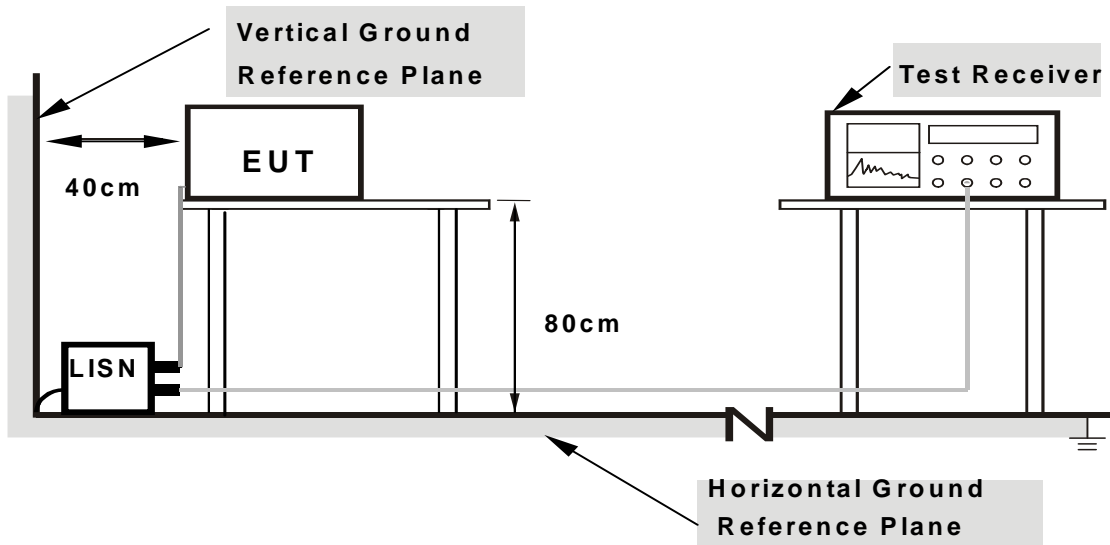
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

2.1.4 DEVIATION FROM TEST STANDARD

No deviation.



2.1.5 TEST SETUP



- Note:**
- 1.Support units were connected to second LISN.
 - 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

2.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.



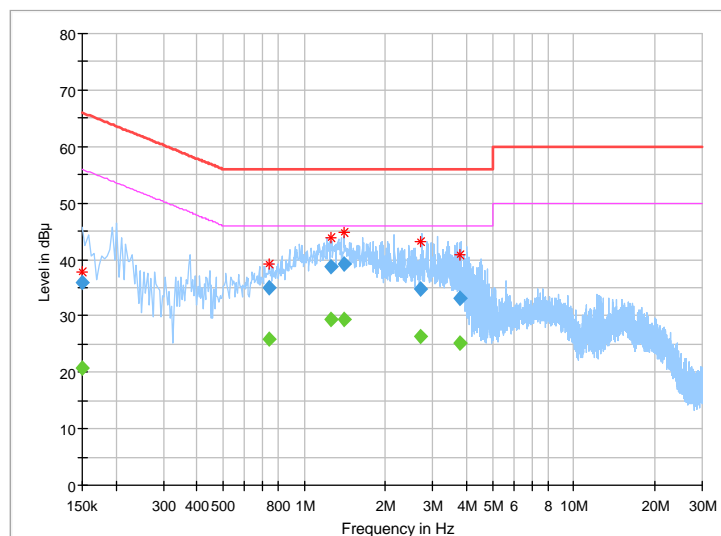
2.1.7 TEST RESULTS

TEST VOLTAGE	DC 5V From Adapter Input 230 Vac, 50 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	24deg. C, 55RH	TESTED BY	Eric

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	20.86	56.00	35.14	L	ON	9.6
0.150000	35.82	---	66.00	30.18	L	ON	9.6
0.744000	---	25.90	46.00	20.10	L	ON	9.7
0.744000	35.02	---	56.00	20.98	L	ON	9.7
1.264000	---	29.33	46.00	16.67	L	ON	9.7
1.264000	38.73	---	56.00	17.27	L	ON	9.7
1.412000	---	29.36	46.00	16.64	L	ON	9.7
1.412000	39.10	---	56.00	16.90	L	ON	9.7
2.708000	---	26.42	46.00	19.58	L	ON	9.7
2.708000	34.74	---	56.00	21.26	L	ON	9.7
3.780000	---	25.11	46.00	20.89	L	ON	9.7
3.780000	33.09	---	56.00	22.91	L	ON	9.7

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum





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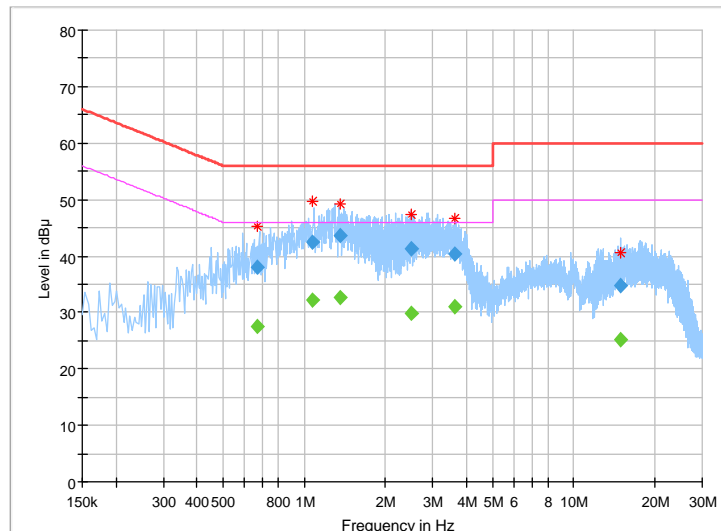
Test Report No.: FV160524W004

TEST VOLTAGE	DC 5V From Adapter Input 230 Vac, 50 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	24deg. C, 55RH	TESTED BY	Eric

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.672000	---	27.58	46.00	18.42	N	ON	10.0
0.672000	38.05	---	56.00	17.95	N	ON	10.0
1.076000	---	32.24	46.00	13.76	N	ON	9.9
1.076000	42.42	---	56.00	13.58	N	ON	9.9
1.366000	---	32.64	46.00	13.36	N	ON	9.9
1.366000	43.67	---	56.00	12.33	N	ON	9.9
2.496000	---	29.81	46.00	16.19	N	ON	9.8
2.496000	41.26	---	56.00	14.74	N	ON	9.8
3.600000	---	31.08	46.00	14.92	N	ON	9.8
3.600000	40.38	---	56.00	15.62	N	ON	9.8
14.992000	---	25.12	50.00	24.88	N	ON	9.9
14.992000	34.65	---	60.00	25.35	N	ON	9.9

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum





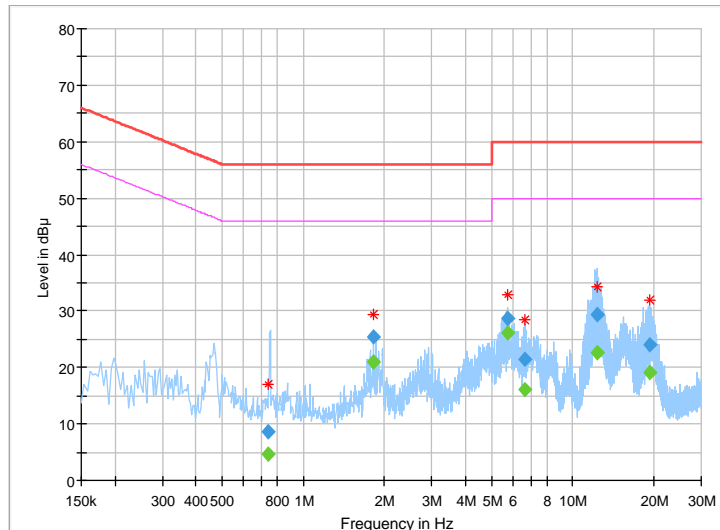
POWER LINE EMISSION DATA:

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.744000	---	4.75	46.00	41.25	L1	ON	9.7
0.744000	8.54	---	56.00	47.46	L1	ON	9.7
1.820000	---	20.90	46.00	25.10	L1	ON	9.7
1.820000	25.33	---	56.00	30.67	L1	ON	9.7
5.756000	---	26.03	50.00	23.97	L1	ON	9.8
5.756000	28.80	---	60.00	31.20	L1	ON	9.8
6.668000	---	16.08	50.00	33.92	L1	ON	9.8
6.668000	21.43	---	60.00	38.57	L1	ON	9.8
12.272000	---	22.68	50.00	27.32	L1	ON	9.9
12.272000	29.40	---	60.00	30.60	L1	ON	9.9
19.412000	---	19.17	50.00	30.83	L1	ON	9.9
19.412000	23.95	---	60.00	36.05	L1	ON	9.9

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum



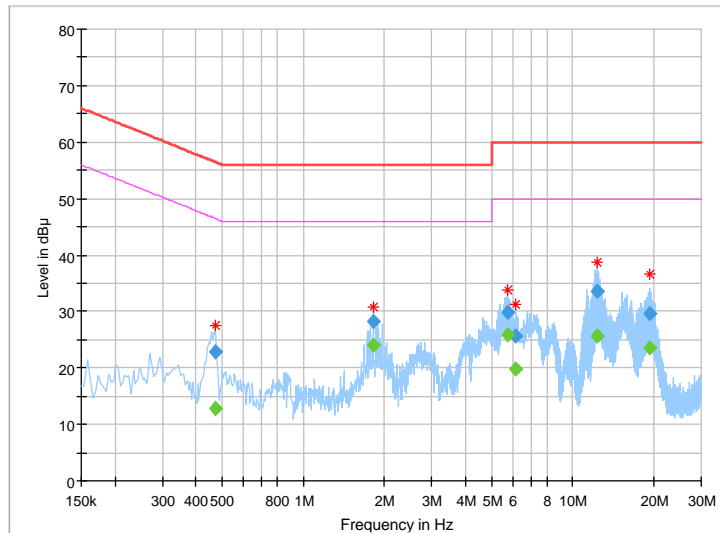


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.472000	---	12.94	46.48	33.54	N	ON	10.1
0.472000	22.79	---	56.48	33.69	N	ON	10.1
1.820000	---	24.06	46.00	21.94	N	ON	9.8
1.820000	28.16	---	56.00	27.84	N	ON	9.8
5.760000	---	25.88	50.00	24.12	N	ON	9.8
5.760000	29.96	---	60.00	30.04	N	ON	9.8
6.140000	---	19.72	50.00	30.28	N	ON	9.8
6.140000	25.56	---	60.00	34.44	N	ON	9.8
12.360000	---	25.67	50.00	24.33	N	ON	9.9
12.360000	33.64	---	60.00	26.36	N	ON	9.9
19.260000	---	23.64	50.00	26.36	N	ON	10.0
19.260000	29.64	---	60.00	30.36	N	ON	10.0

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum





2.2 RADIATED EMISSION MEASUREMENT

2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 10 meters (dBµV/m)				
Frequencies (MHz)	FCC 15B/ ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	39	29.5	40	30
88-216	43.5	33.1		
216-230	46.4	35.6		
230-960			47	37
960-1000	49.5	43.5	Not defined	Not defined
1000-3000	Avg: 49.5	Avg: 43.5		
3000+	Peak: 69.5	Peak: 63.5	Not defined	Not defined

Radiated Emissions Limits at 3 meters (dBµV/m)				
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	49.5	40	50.5	40.5
88-216	54	43.5		
216-230	56.9	46		
230-960			57.5	47.5
960-1000	60	54	Avg: 56 Peak: 76	Avg: 50 Peak: 70
1000-3000	Avg: 60	Avg: 54		
3000+	Peak: 80	Peak: 74	Avg: 60 Peak: 80	Avg: 54 Peak: 74

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
 4. QP detector shall be applied if not specified.



2.2.2 TEST INSTRUMENTS

For frequency below 1G

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Apr. 05,16	Apr. 04,17
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 16, 15	Jul. 15, 16
Amplifier	Burgeon	BPA-530	100220	Apr. 05,16	Apr. 04,17
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Mar. 12,16	Mar. 11,18
Test software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A

For frequency above 1G

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	ETS-Lindgren	3117	00062558	May 30,14	May 29,17
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Mar. 12,16	Mar. 11,17
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Apr. 05,16	Apr. 04,17
Pre-Amplifier	HP	8449B	3008A00409	Apr. 25,15	Apr. 24,17
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 11,15	Nov. 10,16
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A

- NOTE:**
1. The test was performed in 966m Chamber (a 3m Semi-anechoic chamber).
 2. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 3. The FCC Site Registration No. is 494399.



2.2.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters (below 1GHz) and 3 meters (above 1GHz) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. The bore sight should be used during the test above 1GHz.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test receiver/spectrum was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth of test receiver/spectrum analyzer is 1Hz for Average detection (AV) at frequency above 1GHz.
3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
4. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
6. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier).
7. Margin value = Emission level – Limit value.

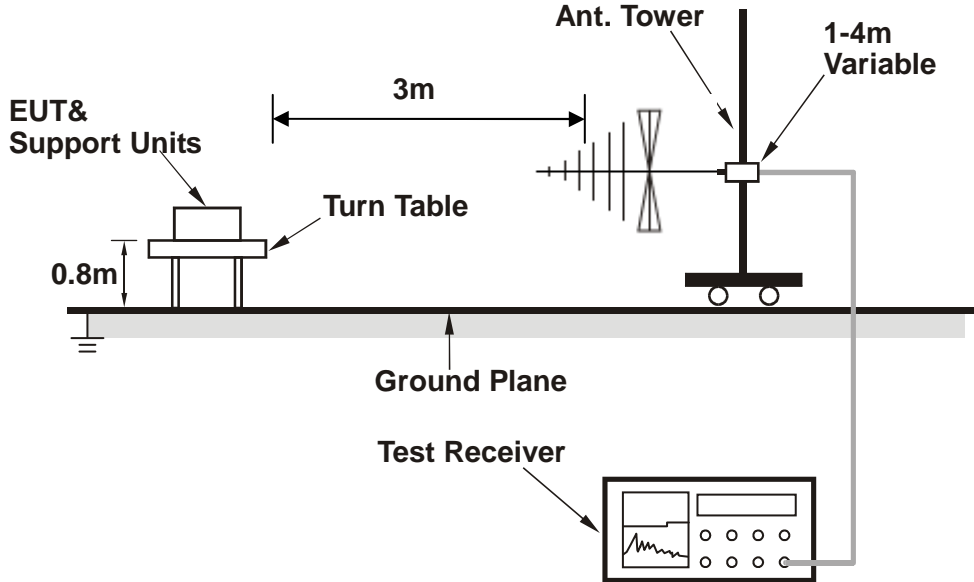
2.2.4 DEVIATION FROM TEST STANDARD

No deviation.

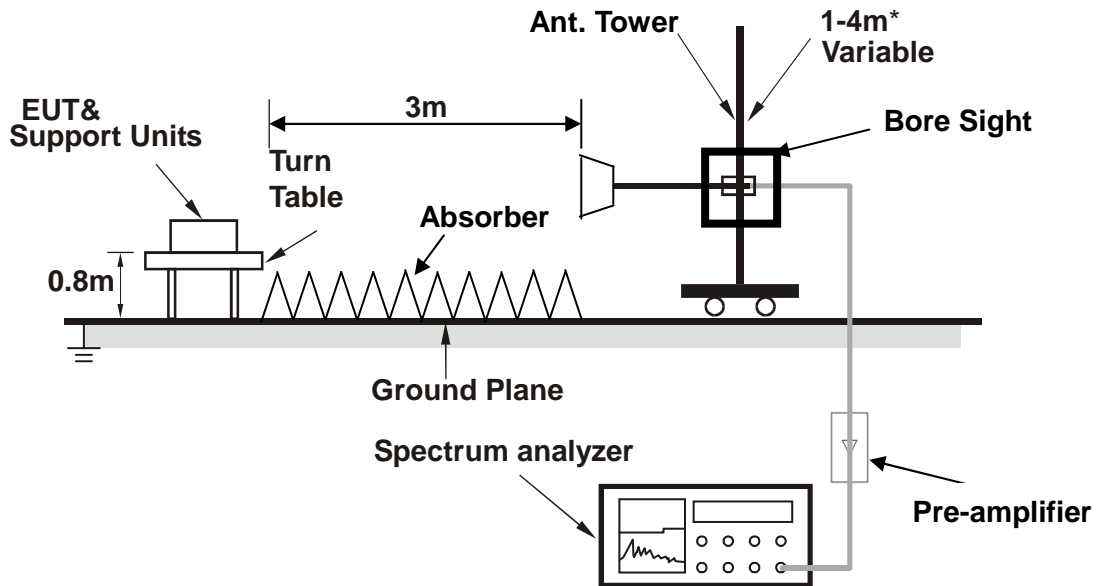


2.2.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



* : depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

2.2.6 EUT OPERATING CONDITIONS

Same as item 2.1.6.

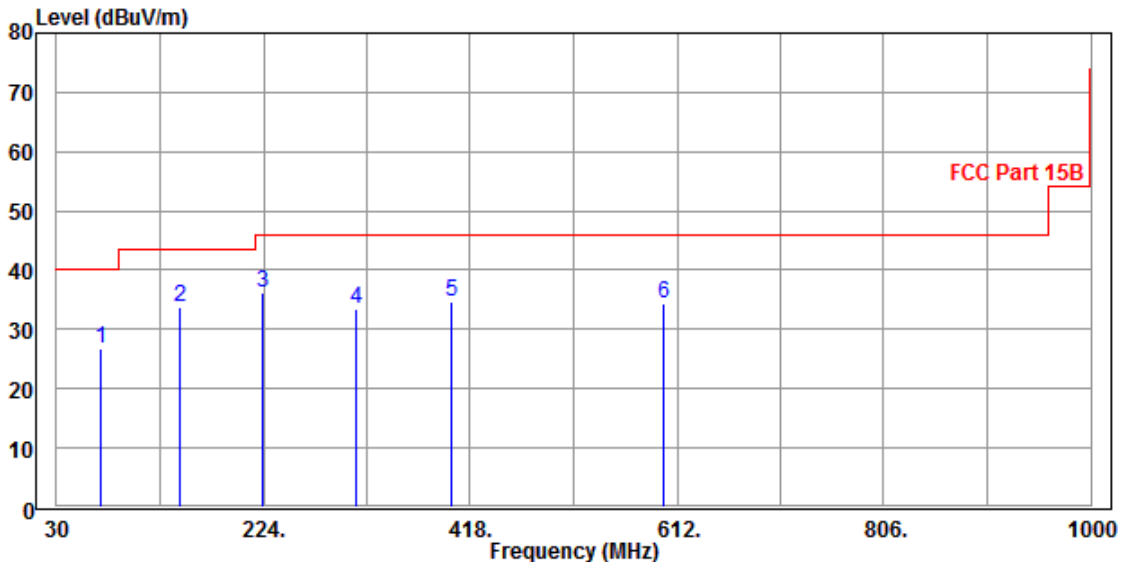


2.2.7 TEST RESULTS

TEST VOLTAGE	DC 5V From Adapter Input 120Vac, 50 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	26deg. C, 61 %RH	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Alex Chen		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
71.71	26.73	55.82	40.00	-13.27	6.85	1.30	37.24	200	72	QP
146.4	33.62	59.80	43.50	-9.88	8.77	1.86	36.81	200	90	QP
223.03	36.28	59.35	46.00	-9.72	11.16	2.30	36.53	200	148	QP
310.33	33.54	53.87	46.00	-12.46	13.43	2.76	36.52	200	196	QP
399.57	34.72	51.11	46.00	-11.28	17.18	3.15	36.72	200	240	QP
599.39	34.47	47.42	46.00	-11.53	20.29	4.01	37.25	200	272	QP

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4. Only emissions significantly above equipment noise floor are reported.

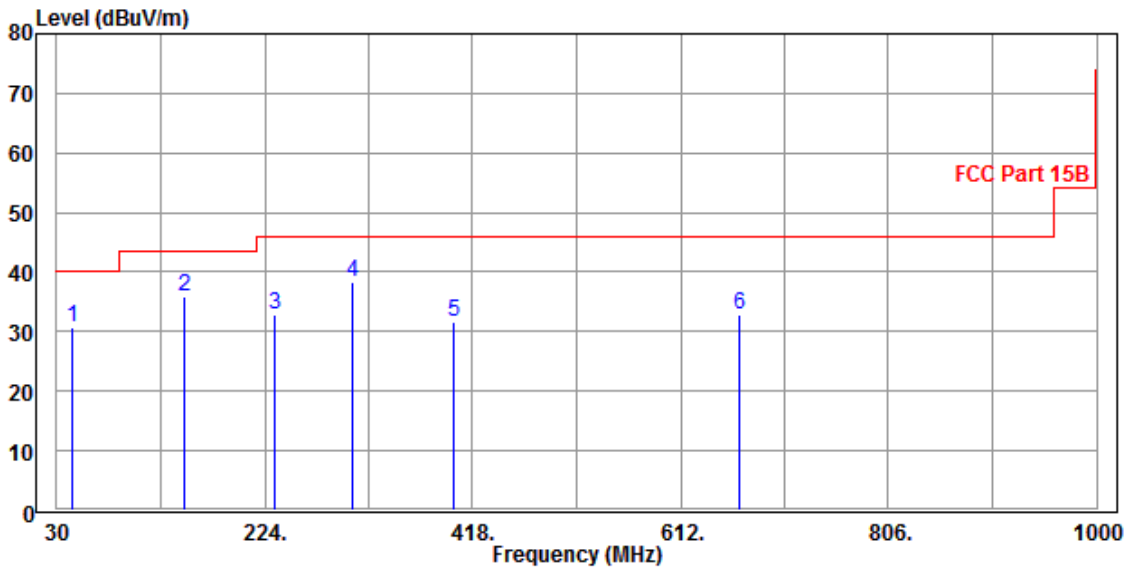




TEST VOLTAGE	DC 5V From Adapter Input 120 Vac, 50 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	26deg. C, 61 %RH	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Alex Chen		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
43.58	30.68	58.26	40.00	-9.32	8.88	0.99	37.45	100	56	QP
148.34	35.94	61.87	43.50	-7.56	9.00	1.87	36.80	100	360	QP
232.73	32.75	55.32	46.00	-13.25	11.61	2.35	36.53	100	128	QP
305.48	38.31	58.85	46.00	-7.69	13.23	2.74	36.51	100	36	QP
399.57	31.67	48.06	46.00	-14.33	17.18	3.15	36.72	100	256	QP
666.32	32.88	43.85	46.00	-13.12	22.16	4.19	37.32	100	240	QP

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4. Only emissions significantly above equipment noise floor are reported.





TEST VOLTAGE	DC 5V From Adapter Input 120 Vac, 50 Hz	FREQUENCY RANGE	1-6 GHz
ENVIRONMENTAL CONDITIONS	26deg. C, 61 %RH	DETECTOR FUNCTION & BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Alex Chen		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
1952	31.53	40.95	54.00	-22.47	31.59	7.34	48.35	101	186	Average
1952	46.49	55.91	74.00	-27.51	31.59	7.34	48.35	101	186	Peak
3125	34.51	40.53	54.00	-19.49	32.93	9.40	48.35	101	224	Average
3125	47.05	53.07	74.00	-26.95	32.93	9.40	48.35	101	224	Peak
5335	40.81	40.94	54.00	-13.19	34.70	14.24	49.07	101	306	Average
5335	53.20	53.33	74.00	-20.80	34.70	14.24	49.07	101	306	Peak

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
1918	31.34	41.05	54.00	-22.66	31.38	7.26	48.35	101	125	Average
1918	49.18	58.89	74.00	-24.82	31.38	7.26	48.35	101	125	Peak
3550	35.34	40.65	54.00	-18.66	33.08	10.04	48.43	101	78	Average
3550	48.00	53.31	74.00	-26.00	33.08	10.04	48.43	101	78	Peak
5881	44.93	41.54	54.00	-9.07	35.36	17.19	49.16	101	258	Average
5881	56.20	52.81	74.00	-17.80	35.36	17.19	49.16	101	258	Peak

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 1GHz to 6GHz.
 4. Only emissions significantly above equipment noise floor are reported.



Test Report No.: FV160524W004

3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

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