



EMC TEST REPORT

Applicant:	Corporativo Lanix S.A. de C.V.
Address:	Carretera Internacional Hermosillo-Nogales Km 8.5, Hermosillo Sonora, Mexico

Manufacturer or Supplier	Shenzhen Tinno Mobile Technology Corp.
Address	4/F., H-3 Building, OCT Eastern Industrial Park. NO.1 XiangShan East Road., Nan Shan District, Shenzhen, P.R.China.
Product	smartphone
Brand Name	LANIX
Model Name	Ilium L620
FCC ID	ZC4L620
Date of tests	Feb. 18, 2017 ~ Mar. 18, 2017

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

ANSI C63.4:2014

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

Issued by Harry Li Engineer / Mobile Department	Approved by Sam Tung Manager / Mobile Department	
Harry	mb	
Date: Mar. 21, 2017	Date: Mar. 21, 2017	

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FV170217W002	Original release	Mar. 21, 2017

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1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	smartphone			
BRAND NAME	LANIX			
MODEL NAME	Ilium L620			
	5.0Vdc (adapter or host equipment)			
NOMINAL VOLTAGE	3.8Vdc (Li-ion,			
BATTERY	Brand Name: LANIX Model Name: Ilium L620-BAT Power Rating: DC 3.8V, 2500mAh, Li-ion			
	WLAN	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
	Bluetooth	GFSK, π/4-DQPSK, 8DPSK		
MODULATION TYPE	GSM/EDGE	GMSK, 8PSK		
	WCDMA	BPSK/QPSK		
	LTE	QPSK/16QAM		
	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20) 2422 ~ 2452MHz for 11n(HT40)		
	Bluetooth	2402MHz ~ 2480MHz		
OPERATING FREQUENCY	GSM/EDGE	824.2MHz ~ 848.8MHz (FOR GSM 850) 1850.2MHz ~ 1909.8MHz (FOR PCS 1900)		
I KEQUENOT	WCDMA	1852.4MHz ~ 1907.6MHz (FOR WCDMA Band 2 826.4MHz ~ 846.6MHz (FOR WCDMA Band 5)		
	LTE	1850.7MHz ~ 1909.3MHz (FOR LTE Band2) 1710.7MHz ~ 1754.3MHz (FOR LTE Band4) 2502.5MHz ~ 2567.5MHz (FOR LTE Band7)		
HW VERSION	V1			
SW VERSION	Ilium L620_TELCEL_SW_01			
I/O PORTS	Refer to user's manual			
CABLE	USB cable: non-shielded, detachable, 1.0m Earphone cable: non-shielded, detachable, 1.0m			
ACCESSORY DEVICES NOTE:	Refer to note as below			

NOTE

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

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2. The EUT was powered by the following adapter:

ADAPTER	
BRAND:	Lanix
MODEL:	Ilium L620-C
INPUT:	AC 100-240V, 150mA
OUTPUT:	DC 5V, 1000mA

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

USB CABLE	j
BRAND:	LANIX
MODEL:	Ilium L620
SIGNAL LINE:	1.0 METER

EARPHONE		
BRAND:	LANIX	
MODEL:	Ilium L620	
SIGNAL LINE:	1.0 METER	

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

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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 Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets limits minimum passing margin is -8.33dB at 1.772000MHz. Meets Class B Limit Minimum passing margin is -3.23dB at 206.54MHz	
	Radiated Emission Test (Above 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -14.75dB at 3785MHz	

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	+/-2.70dB
De diete de serie siene	30MHz ~ 1GHz	+/-4.06dB
Radiated emissions	1GHz ~ 18GHz	+/-4.58dB



1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition		
	Radiated emission test		
1	GSM850 Idle+ Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx		
2	GSM1900 Idle+ Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx		
3	WCDMA850 Idle + Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx		
4	WCDMA1900 Idle + Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx + MPEG4		
5	LTE B2 Idle + Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx +FM RX		
6	LTE B4 Idle + Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx + Front camera on		
7	LTE B7 Idle + USB Link + Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx+ Back camera on		
	Conducted emission test		
1	GSM850 Idle+ Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx		
2	GSM1900 Idle+ Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx		
3	WCDMA850 Idle + Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx		
4	WCDMA1900 Idle + Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx + MPEG4		
5	LTE B2 Idle + Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx +FM RX		
6	LTE B4 Idle + Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx + Front camera on		
7	LTE B7 Idle + USB Link + Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx+ Back camera on		

NOTE:

- 1. For conducted emission test, test mode 6 was the worst case and only this mode was presented in this report.
- 2. For radiated emission test, test mode 7 was the worst case and only this mode was presented in this report.

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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	Wireless AP	ABOCOM	WR224GR	060500749P	D43064
2	Notebook	DELL	E6420	9H12FS1	N/A
3	Printer	HP	hp LaserJet 1300	CNSJF75989	N/A
4	Mouse	DELL	M056UOA	01688082	N/A

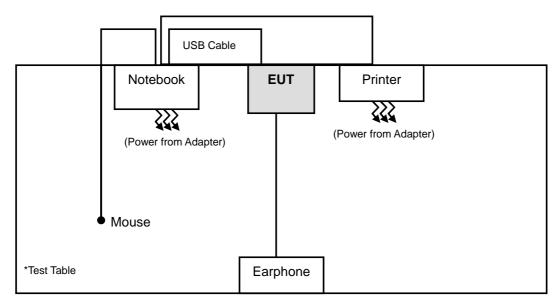
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS				
1	N/A				
2	DC Line: Unshielded, Undetachable, 2.0m				
3	USB Line: Shielded, Detachable 1.5m;				
4	USB Line: Unshielded, Undetachable 1.8m;				

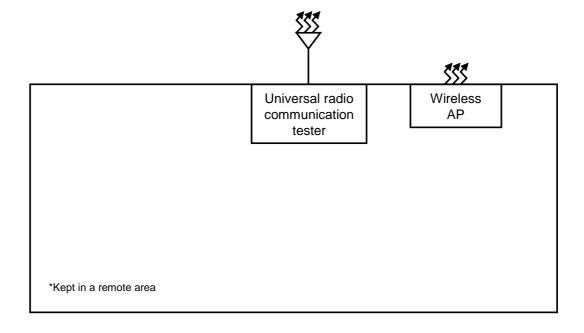
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1.6 CONFIGURATION OF SYSTEM UNDER TEST

Test configuration 1

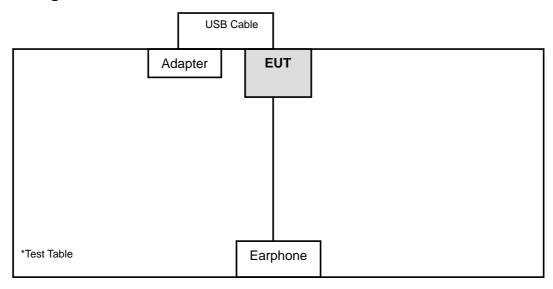


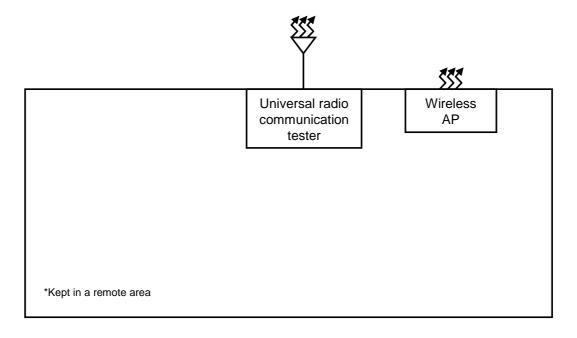


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Test configuration 2





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EMISSION TEST

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	ESR7	101494	Apr. 05,16	Apr. 04,17
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 03,17	Mar. 02,18
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 05,16	Apr. 04,17
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Nov. 25,16	Nov. 24,17
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.
 - 3. The FCC Site Registration No. is 502831.



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.

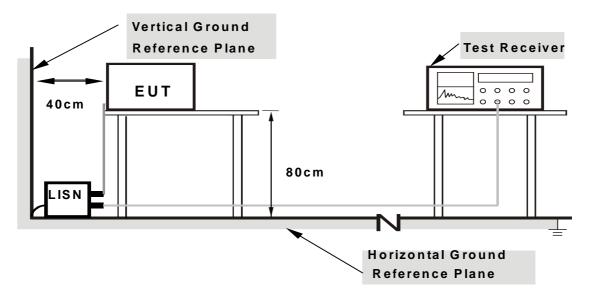
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

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

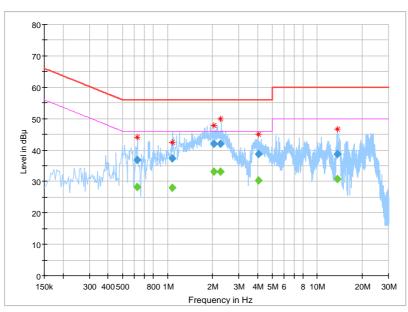
TEST VOLTAGE		Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	24deg. C, 55RH	TESTED BY	Alex Chen

Frequency (MHz)	QuasiPeak (dB¦ÌV)	CAverage (dB¦ÌV)	Limit (dB¦ÌV)	Margin (dB)	Line	Filter	Corr. (dB)
0.628000		28.20	46.00	-17.80	L1	ON	9.7
0.628000	36.75		56.00	-19.25	L1	ON	9.7
1.080000		27.96	46.00	-18.04	L1	ON	9.7
1.080000	37.42		56.00	-18.58	L1	ON	9.7
2.028000		33.19	46.00	-12.81	L1	ON	9.7
2.028000	41.94		56.00	-14.06	L1	ON	9.7
2.252000		33.05	46.00	-12.95	L1	ON	9.7
2.252000	41.92		56.00	-14.08	L1	ON	9.7
4.048000		30.27	46.00	-15.73	L1	ON	9.7
4.048000	38.74		56.00	-17.26	L1	ON	9.7
13.656000		30.68	50.00	-19.32	L1	ON	9.9
13.656000	38.75		60.00	-21.25	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.





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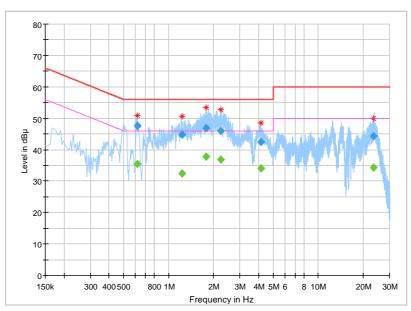
TEST VOLTAGE	DC 5V From Adapter Input 120 Vac, 60 Hz		Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	24deg. C, 55RH	TESTED BY	Alex Chen

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.616000		35.45	46.00	-10.55	N	ON	10.1
0.616000	47.61		56.00	-8.39	N	ON	10.1
1.224000		32.35	46.00	-13.65	N	ON	9.9
1.224000	44.88		56.00	-11.12	N	ON	9.9
1.772000		37.67	46.00	-8.33	N	ON	9.8
1.772000	46.99		56.00	-9.01	N	ON	9.8
2.244000		36.95	46.00	-9.05	N	ON	9.8
2.244000	45.96		56.00	-10.04	N	ON	9.8
4.156000		34.10	46.00	-11.90	N	ON	9.8
4.156000	42.52		56.00	-13.48	N	ON	9.8
23.548000		34.17	50.00	-15.83	N	ON	10.1
23.548000	44.23		60.00	-15.77	N	ON	10.1

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.





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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)	·		CISPR 22, Class A	CISPR 22, Class B				
30-88	39	29.5						
88-216	43.5	33.1	40	30				
216-230	46.4	35.6						
230-960	40.4	35.6	47	37				
960-1000	49.5	43.5	47	37				
1000-3000	Avg: 49.5	Avg: 43.5	Not defined	Not defined				
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	003, ICES-003, Class		CISPR 22, Class B				
30-88	49.5	40						
88-216	54	43.5	50.5	40.5				
216-230	56.9	46						
230-960	90.9	40	E7 E	17 E				
960-1000	60	54	57.5	47.5				
1000-3000			Avg: 56	Avg: 50				
	Avg: 60	Avg: 54	Peak: 76	Peak: 70				
3000+	Peak: 80	Peak: 74	Avg: 60	Avg: 54				
			Peak: 80	Peak: 74				



Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

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.

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2.2.2 Test Instruments

Frequency range below1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCI	100962	Mar. 03,17	Mar. 02,18
EMI Test Receiver	Rohde&Schwarz	ESCI	101418	Mar. 03,17	Mar. 02,18
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Nov. 13, 16	Nov. 12, 17
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-555	Nov. 20, 16	Nov. 19, 17
Signal Amplifier	Agilent	8447D	2944A10488	Jun. 25,16	Jun. 24, 17
Signal Amplifier	Agilent	8447D	2944A11174	Jun. 25,16	Jun. 24, 17
10m Semi-anechoic Chamber		21.4m*12.1m*8 .8m		Mar. 12,16	Mar. 11,18
Test Software	ADT	ADT_Radiated _V8.7.x	N/A	N/A	N/A

Frequency range above 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.	
Horn Antenna	ETS-Lindgren	3117	00085519	Dec. 30, 15	Dec. 29, 17	
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Mar. 11, 17	Mar. 10, 18	
Signal and						
Spectrum	Rohde&Schwarz	FSV40	101003	Apr. 05,16	Apr. 04, 17	
Analyzer						
Broadband	SCHWARZBECK	RR\/0718	266	Mar. 22,16	Mar. 21, 17	
Preamplifier	SCHWARZBLOR	DD V 97 10	200	IVIAI. 22, 10	IVIAI. 21, 17	
Pre-Amplifier						
(100MHz-26.5G	EMCI	EMC 012645	980077	May 04,16	May 03, 17	
Hz)						
Pre-Amplifier	EMCI	EMC 184045	980102	Nov. 04,16	Nov. 03, 17	
(18GHz-40GHz)	LIVIOI	LIVIO 104043	300102	140 v. 04, 10	1400. 00, 17	

NOTE: 1. The test was performed in 10m 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 502831.



2.2.3 Test Procedure

<Frequency Range below 1GHz>

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 10 meter 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 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 1 meter to 4 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.
- 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 1GHz.

NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier).
- 5. Margin value = Emission level Limit value.



<Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter fully-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters 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 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.
- 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 3MHz 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.

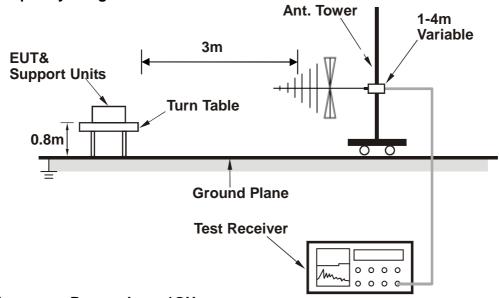
2.2.4 DEVIATION FROM TEST STANDARD

No deviation.

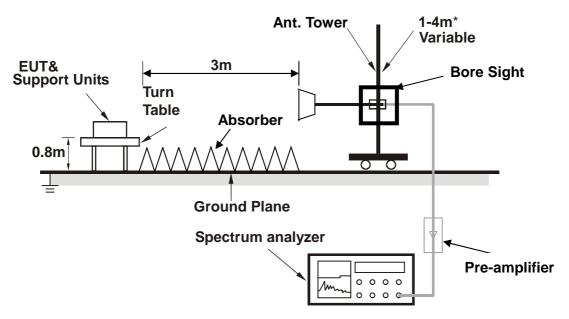


Test Setup 2.2.5

<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.

EUT OPERATING CONDITIONS

Same as item 2.1.6.

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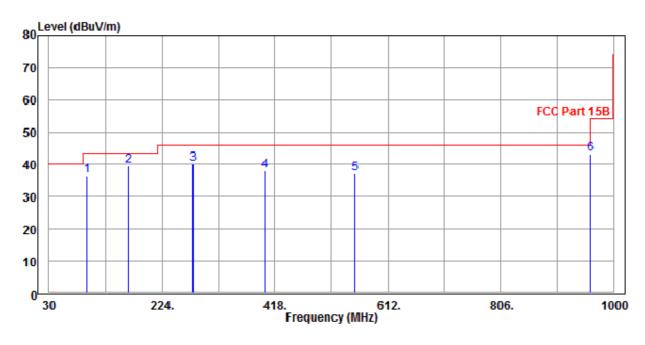


TEST RESULTS

	DC 5V From Adapter Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	24deg. C, 58 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Tony Zou		

	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	
94.99	36.61	64.68	43.50	-6.89	7.45	1.50	37.02	200	48	QP	
165.80	39.66	64.31	43.50	-3.84	10.11	1.97	36.73	200	60	QP	
277.35	40.05	61.23	46.00	-5.95	12.73	2.60	36.51	100	130	QP	
399.57	38.17	54.56	46.00	-7.83	17.18	3.15	36.72	200	125	QP	
555.74	36.98	50.87	46.00	-9.02	19.46	3.77	37.12	200	269	QP	
960.23	43.34	52.31	54.00	-10.66	23.42	5.08	37.47	200	90	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.



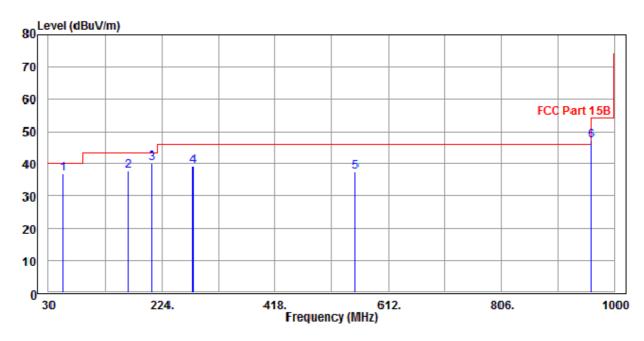
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LIEST VOLTAGE	DC 5V From Adapter Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	24deg. C, 58 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Tony Zou		

	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	
54.25	36.76	66.53	40.00	-3.24	6.46	1.12	37.35	100	55	QP	
165.80	37.71	62.36	43.50	-5.79	10.11	1.97	36.73	100	180	QP	
206.54	40.27	64.20	43.50	-3.23	10.40	2.21	36.54	100	148	QP	
276.38	39.16	60.36	46.00	-6.84	12.72	2.59	36.51	100	80	QP	
555.74	37.48	51.37	46.00	-8.52	19.46	3.77	37.12	100	256	QP	
960.23	47.17	56.14	54.00	-6.83	23.42	5.08	37.47	100	196	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.



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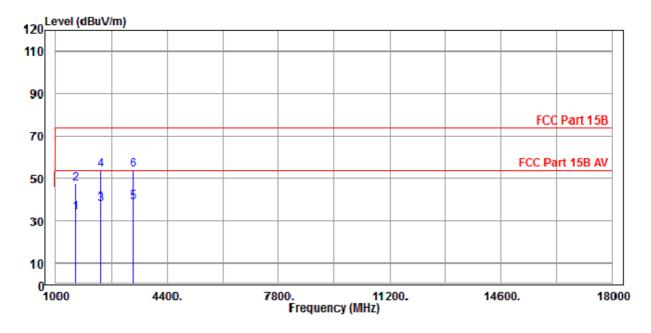


LIEST VOLTAGE	DC 5V From Adapter Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	20deg. C, 58 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Tony Zou		

	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	
1600	33.62	46.09	54.00	-20.38	29.34	6.55	48.36	100	42	Average	
1600	48.97	61.44	74.00	-25.03	29.34	6.55	48.36	100	42	Peak	
2565	38.74	46.11	54.00	-15.26	32.47	8.46	48.30	100	124	Average	
2565	53.24	60.61	74.00	-20.76	32.47	8.46	48.30	100	124	Peak	
3785	39.25	43.85	54.00	-14.75	33.46	10.44	48.50	100	250	Average	
3785	52.87	57.47	74.00	-21.13	33.46	10.44	48.50	100	250	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 18GHz.
- 4. Only emissions significantly above equipment noise floor are reported.



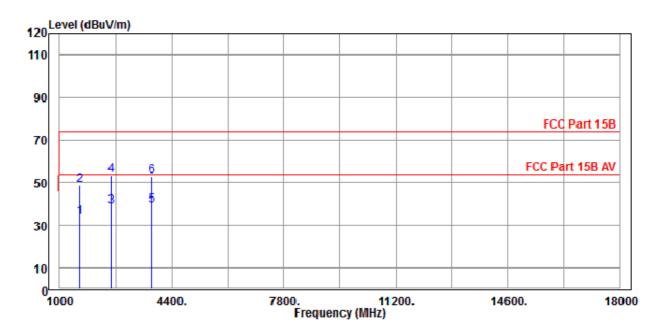
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LIEST VOLTAGE	DC 5V From Adapter Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	20deg. C, 58 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Tony Zou		

	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
1600	33.56	46.03	54.00	-20.44	29.34	6.55	48.36	100	36	Average
1600	47.25	59.72	74.00	-26.75	29.34	6.55	48.36	100	36	Peak
2380	37.96	45.86	54.00	-16.04	32.28	8.13	48.31	100	145	Average
2380	53.63	61.53	74.00	-20.37	32.28	8.13	48.31	100	145	Peak
3360	38.79	44.47	54.00	-15.21	32.97	9.74	48.39	100	210	Average
3360	53.68	59.36	74.00	-20.32	32.97	9.74	48.39	100	210	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 18GHz.
 - 4. Only emissions significantly above equipment noise floor are reported.



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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.

---END---

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