

FCC Test Report FCC ID:2AEHF-WIND

Product: L1810

Trade Name: NOBUX

Model Number: WIND

Serial Model: N/A

Report No.: NTEK-2016NT08178323F1

Prepared for

NOBUX, LLC

8600 NW SOUTH RIVER DR #103 MIAMI, FLORIDA 33166

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China

Tel.: +86-0755-61156588 Fax.: +86-0755-61156599 Website: www.ntek.org.cn



TEST RESULT CERTIFICATION

Report No.: NTEK- 2016NT08178323F1

Applicant's name:	NOBUX, L	LC	
Address::	8600 NW	SOUTH RIVER DR #103 MIAMI, FLORIDA	33166
Manufacturer's Name:	Locopo Te	chnolgy Co.,Ltd	
Address:	Rm./Flat 1 Chai,Kong	501(056), 15/F,Spa Centre,53-55 Lockhart Kong.	Road,Wan
Product description			
Product name:	L1810		
Model and/or type reference :	WIND		
Standards:	FCC Part ANSI C63	15B: 01 Oct.2015 3.4:2014	
	complian	sted by NTEK, and the test results show ce with Part 15 of FCC Rules. And it is a	
This report shall not be reproduc	ced except	t in full, without the written approval of N	NTEK, this
•	ised by N7	ΓΕΚ, personnel only, and shall be noted	in the revision of
the document.			
Date of Test		17 Aug 2016 OF Con 2016	
Date (s) of performance of tests			
Date of Issue		05 Sep. 2016	
Test Result	:	Pass	
Testing Engine	eer :	Eileen Wu.	
		(Eileen Liu)	
Technical Man	ager :	Jason chen	
		(Jason Chen)	
Authorized Sig	natory:	Sam. Chen	
		(Sam Chen)	



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1. TEST SUMMARY

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Test procedures according to the technical standards:

EMC Emission							
Standard	Test Item	Limit	Judgment	Remark			
FCC Part15B: 01 Oct.2015 ANSI C63.4: 2014	Conducted Emission	Class B	PASS				
	Radiated Emission	Class B	PASS				

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.



1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	L1810				
Trade Name	NOBUX				
Model Name	WIND				
Serial Model	N/A				
Model Difference	N/A				
	The EUT is a L1810.				
	Connecting I/O port:	USB, DC in			
	Operation Frequency:	BT:2402~2480 MHz			
		GSM/GPRS:			
Product Description		824.2-848.8MHz/1850.2-1909.8MHz			
	Modulation Type:	BT(1Mbps): GFSK			
		BT EDR(2Mbps): π /4-DQPSK			
		BT EDR(3Mbps): 8-DPSK			
		GSM / DCS: GMSK			
Power Source	DC Voltage				
	AC/DC ADAPTOR				
Adapter	INPUT:AC 110V~240V 50/60Hz 150mA;				
	OUTPUT:DC 5V,500mA				
Battery	DC 4.2V, 600mAh				



2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Connect to PC
Mode 2	REC
Mode 3	ВТ
Mode 4	GSM
Mode 5	FM Mode

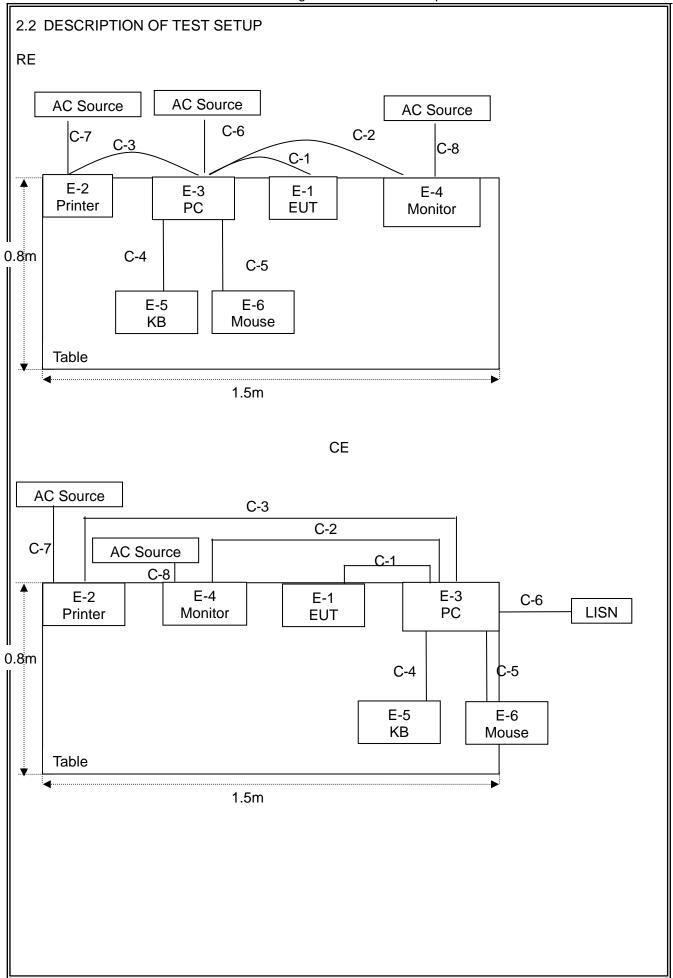
For Conducted Test				
Final Test Mode	Description			
Mode 1	Connect to PC			
Mode 2	REC			
Mode 3	BT			
Mode 4	GSM			
Mode 5	FM Mode			

For Radiated Test					
Final Test Mode	Description				
Mode 1	Connect to PC				
Mode 2	REC				
Mode 3	BT				
Mode 4	GSM				
Mode 5	FM Mode				

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case. Only the worst case mode is recorded in the report.











2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	L1810	NOBUX	WIND	N/A	EUT
E-2	Printer	Canon	L11121E	LBP2900	
E-3	Earphone	N/A	L662	N/A	Peripherals
E-4	Personal computer	DELL	FT4Y23X	34413561645	PC
E-5	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67e s	
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7	
E-7	Keyboard	DELL	SK-8185	OY526KUS	

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	unshielded	NO	1.2m	
C-2	VGA	unshielded	NO	1.0m	
C-3	USB Cable	unshielded	NO	1.2m	
C-4	USB Cable	unshielded	NO	1.0m	
C-5	USB Cable	unshielded	NO	1.0m	
C-6	Power Line	unshielded	NO	1.2m	
C-7	Power Line	unshielded	NO	1.2m	
C-8	Power Line	unshielded	NO	1.2m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".



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2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Item		Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment				calibration	until	n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2016.07.06	2017.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2016.07.06	2017.07.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.07	2017.06.06	1 year
10	Power Meter	R&S	NRVS	100696	2016.07.06	2017.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2016.07.06	2017.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2016.07.06	2017.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2016.07.06	2017.07.05	1 year

Conduction Test equipment

Item	Kind of	Manufactu	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment	rer			calibration	until	n period
1	Test Receiver	R&S	ESCI	101160	2016.06.06	2017.06.05	1 year
2	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.08	2017.06.07	1 year
7	Test Cable	N/A	C01	N/A	2016.06.08	2017.06.07	1 year
8	Test Cable	N/A	C02	N/A	2016.06.08	2017.06.07	1 year
9	Test Cable	N/A	C03	N/A	2016.06.08	2017.06.07	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
FREQUENCY (MHZ)	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

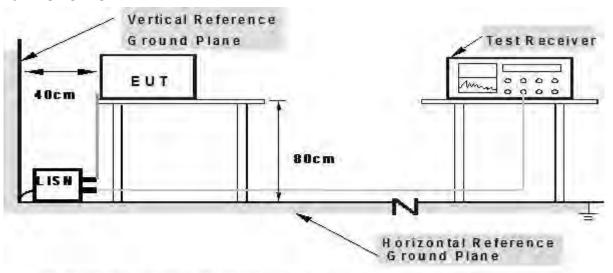
Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	



3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISM.

2.Both of LISMs (AMM) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

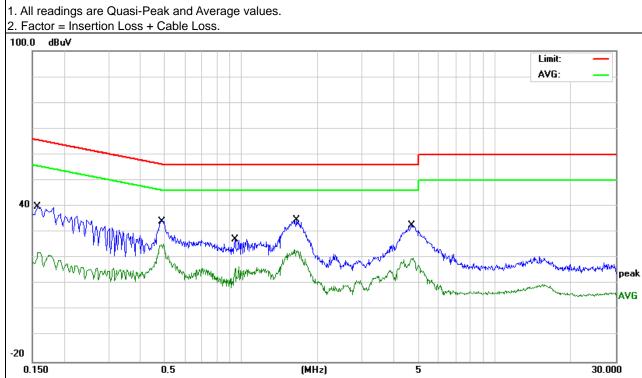
The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.



3.1.5 TEST RESULTS

EUT:	L1810	Model Name.:	WIND	
Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2016-8-17	
Test Mode:	Mode 1 Phase : L			
Test Voltage:	DC 5V From PC AC 120V/60Hz			

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.158	29.77	10.12	39.89	65.56	-25.67	QP
0.158	12.13	10.12	22.25	55.56	-33.31	AVG
0.4939	24.55	9.82	34.37	56.1	-21.73	QP
0.4939	15.57	9.82	25.39	46.1	-20.71	AVG
0.9458	17.4	9.86	27.26	56	-28.74	QP
0.9458	6.8	9.86	16.66	46	-29.34	AVG
1.6538	25.04	9.8	34.84	56	-21.16	QP
1.6538	13.54	9.8	23.34	46	-22.66	AVG
4.7057	22.79	9.82	32.61	56	-23.39	QP
4.7057	10.36	9.82	20.18	46	-25.82	AVG



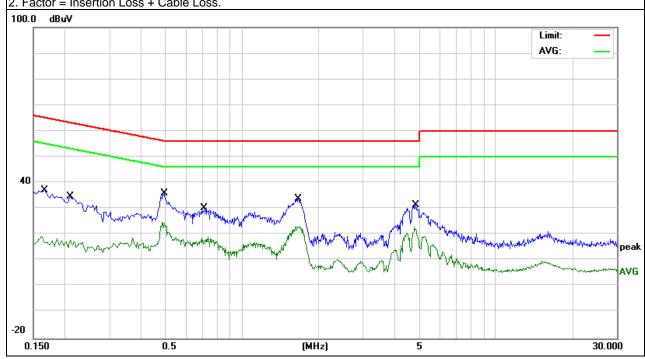


EUT:	L1810	Model Name. :	WIND	
Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2016-8-17	
Test Mode:	Mode 1 Phase : N			
Test Voltage:	DC 5V From PC AC 120V/60Hz			

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.166	26.96	10.06	37.02	65.15	-28.13	QP
0.166	9.32	10.06	19.38	55.15	-35.77	AVG
0.2099	24.58	10.03	34.61	63.21	-28.6	QP
0.2099	7.92	10.03	17.95	53.21	-35.26	AVG
0.4939	26	9.84	35.84	56.1	-20.26	QP
0.4939	15	9.84	24.84	46.1	-21.26	AVG
0.7098	20.41	9.82	30.23	56	-25.77	QP
0.7098	9.45	9.82	19.27	46	-26.73	AVG
1.6658	24.01	9.82	33.83	56	-22.17	QP
1.6658	13.54	9.82	23.36	46	-22.64	AVG
4.7738	21.6	9.8	31.4	56	-24.6	QP
4.7738	12.99	9.8	22.79	46	-23.21	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



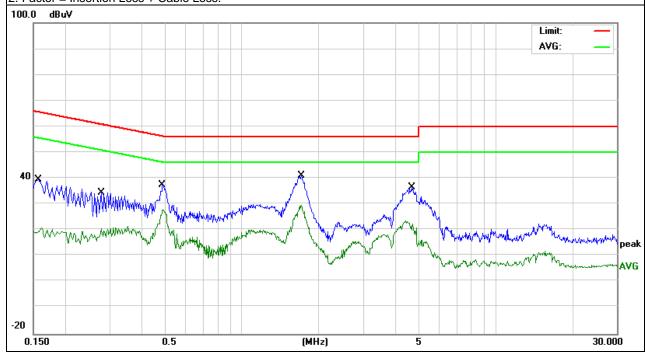


EUT:	L1810	Model Name. :	WIND	
Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2016-8-17	
Test Mode:	Mode 1 Phase : L			
Test Voltage:	DC 5V From PC AC 240V/60Hz			

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domorle
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.158	29.35	10.12	39.47	65.56	-26.09	QP
0.158	10.9	10.12	21.02	55.56	-34.54	AVG
0.2779	24.45	10.14	34.59	60.88	-26.29	QP
0.2779	10.41	10.14	20.55	50.88	-30.33	AVG
0.4859	27.55	9.84	37.39	56.24	-18.85	QP
0.4859	18.07	9.84	27.91	46.24	-18.33	AVG
1.7099	31.19	9.79	40.98	56	-15.02	QP
1.7099	19.83	9.79	29.62	46	-16.38	AVG
4.6658	26.7	9.82	36.52	56	-19.48	QP
4.6658	13.82	9.82	23.64	46	-22.36	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



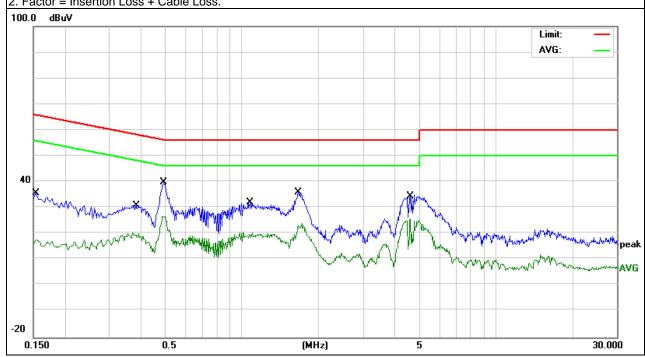


EUT:	L1810	Model Name. :	WIND	
Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2016-8-17	
Test Mode:	Mode 1 Phase : N			
Test Voltage:	est Voltage: DC 5V From PC AC 240V/60Hz			

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	25.5	10.08	35.58	65.78	-30.2	QP
0.1539	7.53	10.08	17.61	55.78	-38.17	AVG
0.382	20.89	10.06	30.95	58.23	-27.28	QP
0.382	10.24	10.06	20.3	48.23	-27.93	AVG
0.4899	30.05	9.85	39.9	56.17	-16.27	QP
0.4899	16.8	9.85	26.65	46.17	-19.52	AVG
1.074	22.14	9.88	32.02	56	-23.98	QP
1.074	10.66	9.88	20.54	46	-25.46	AVG
1.6699	26.11	9.82	35.93	56	-20.07	QP
1.6699	14.08	9.82	23.9	46	-22.1	AVG
4.6098	25.15	9.79	34.94	56	-21.06	QP
4.6098	15.99	9.79	25.78	46	-20.22	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)	
FREQUENCY (MHz)	dBuV/m	dBuV/m	
30 ~ 88	39.0	40.0	
88 ~ 216	43.5	43.5	
216 ~ 960	46.5	46.0	
Above 960	49.5	54.0	

Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

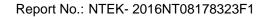
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height 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.
- 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.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited 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 can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report



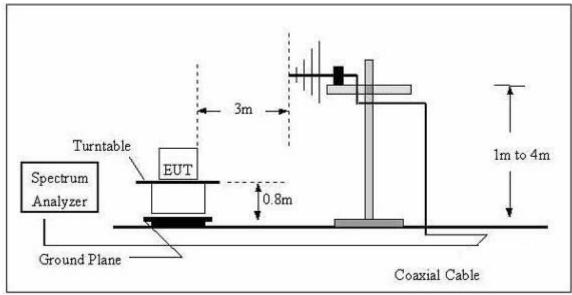


During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

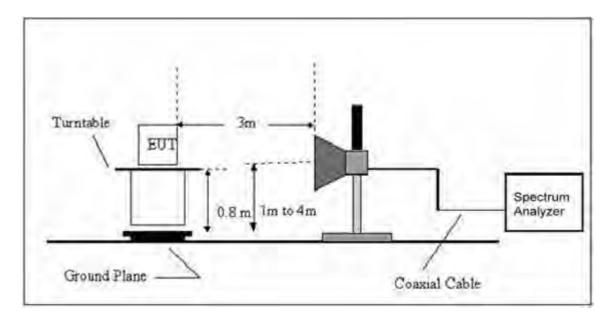
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth	
30 to 1000 QP		120 kHz	300 kHz	
	Peak	1 MHz	1 MHz	
Above 1000	Avg	1 MHz	10 Hz	

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz





3.2.4 TEST RESULTS

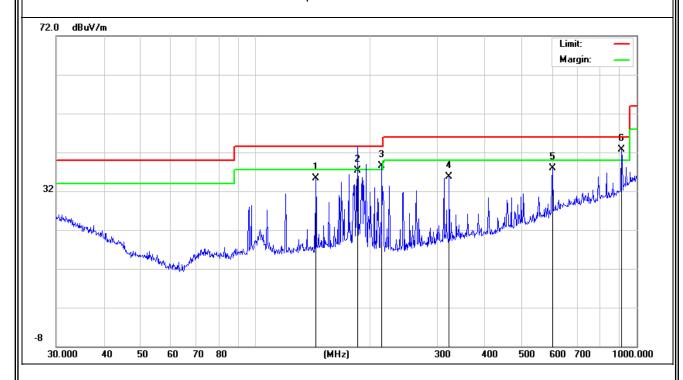
TEST RESULTS (30~1000 MHz)

EUT:	L1810	Model Name:	WIND		
Temperature:	24 ℃	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2016-8-17		
Test Mode:	Mode 1 Polarization : Horizontal				
Test Power: DC 5V From PC AC 120V/60Hz					

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m) (dB)		rtomant	
Н	143.8291	22.9	12.32	35.22	43.5	-8.28	QP	
Н	185.1379	24.33	13.07	37.4	43.5	-6.1	QP	
Н	214.5141	26.1	12.31	38.41	43.5	-5.09	QP	
Н	322.1886	21.09	14.58	35.67	46	-10.33	QP	
Н	601.4265	17.15	20.68	37.83	46	-8.17	QP	
Н	912.862	16.73	26	42.73	46	-3.27	QP	

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





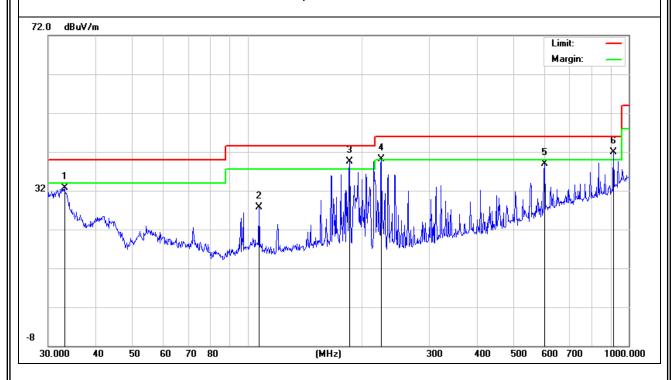


EUT:	L1810	Model Name :	WIND		
Temperature:	24 °C	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2016-8-17		
Test Mode:	Mode 1 Polarization : Vertical				
Test Power:	DC 5V From PC AC 120V/60Hz				

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV) (dB)		(dBuV/m)	(dBuV/m)	(dB)	Roman	
V	33.095	13.92	18.81	32.73	40	-7.27	QP	
V	107.1337	16.39	11.32	27.71	43.5	-15.79	QP	
V	185.1379	26.45	13.07	39.52	43.5	-3.98	QP	
V	224.5193	27.89	12.17	40.06	46	-5.94	QP	
V	601.4265	18.17	20.68	38.85	46	-7.15	QP	
V	912.8618	15.84	26	41.84	46	-4.16	QP	

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





3.2.5 TEST RESULTS(1000~25000MHz)

All the modulation modes have been tested, and the worst result was report as below:

Polar (H/V)	Frequen cy	Read Level	Cable loss	Antenn a Factor	Pream p Factor	Emissio n Level	Limits	Margi n	Remar k
	(MHz)	(dBµ V)	(dB)	dB/m	(dB)	(dBµ V/m)	(dBµ V/m)	(dB)	K
V	1933.57	60.57	-9.27	51.3	74	-22.7	74	-96.7	Pk
V	1933.57	47.38	-9.27	38.11	54	-15.89	54	-69.9	AV
V	2114.79	55.78	-6.98	48.8	74	-25.2	74	-99.2	Pk
V	2114.79	42	-6.98	35.02	54	-18.98	54	-73	AV
V	2480.41	56.24	-7.54	48.7	74	-25.3	74	-99.3	Pk
V	2480.41	37.98	-7.54	30.44	54	-23.56	54	-77.6	AV
Н	1315.4	57.35	-10.8	46.6	74	-27.4	74	-101	Pk
Н	1315.4	41	-10.8	30.25	54	-23.75	54	-77.8	AV

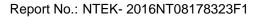
Remark:

Emission Level = Read Level+Antenna Factor + Cable Loss - Amplifier.

Margin= Emission Level-Limits

Note:

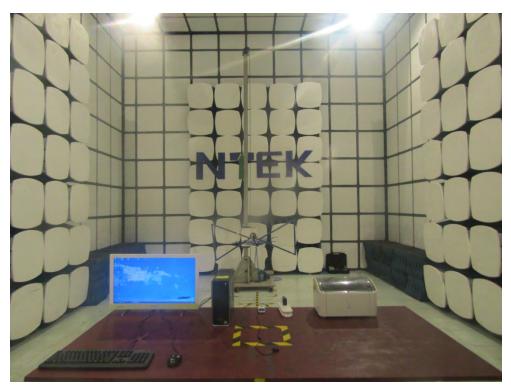
- 1. Measuring frequencies from 1 GHz to 13GHz.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode of the emission shown in Actual FS column.
 - 3. The frequency that above 3GHz is mainly from the environment noise

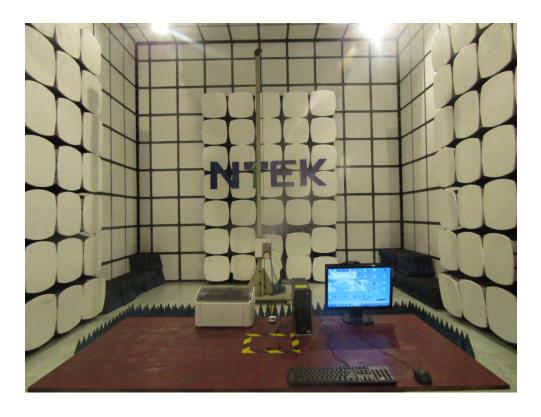




4. EUT TEST PHOTO









Conducted Measurement Photos

