

FCC TEST REPORT

Report Number	: 68.76	60.11.303.	01	Date of Issu	ıe:	17 November 2011
Model	: DP-N	/ 112				
Product Type	: USB	eScope P	ro			
Applicant	: Neto	p Industria	l Company	Limited		
Address	: Dapu	ı Industrial	Zone, Gar	ngzi Village, C	Chan	gping Town,
	5235	71 Donggı	uan City, G	uangdong Pr	ovin	ce, P.R. China
Production Facility	: Netop Industrial Company Limited					
Address	: Dapu	ı Industrial	Zone, Gar	ngzi Village, C	Chan	gping Town,
	523571 Dongguan City, Guangdong Province, P.R. China					
Test Result	: Po	sitive	□ Negati	ve		
Total pages including Appendices	: 18					

Jiangsu TÜV Product Service Ltd. – Shenzhen Branch is a subcontractor to TÜV SÜD Product Service GmbH according to the principles outlined in ISO 17025.

Jiangsu TÜV Product Service Ltd. – Shenzhen Branch reports apply only to the specific samples tested under stated test conditions. Construction of the actual test samples has been documented. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. The manufacturer/importer is responsible to the Competent Authorities in Europe for any modifications made to the production units which result in non-compliance to the relevant regulations. Jiangsu TÜV Product Service Ltd. – Shenzhen Branch issued reports.

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Report Number: 68.760.11.303.01



1 Table of Contents

1	Table of Contents	2
2	Details about the Test Laboratory	3
3	Description of the Equipment Under Test	4
4	Summary of Test Standards	5
5	Summary of Test Results	6
6	General Remarks	7
7	Technical Requirements	8
8	System Measurement Uncertainty	18



2 Details about the Test Laboratory

Details about the Test Laboratory

Company name: Jiangsu TÜV Product Service Ltd. – Shenzhen Branch

6th Floor, H Hall,

Century Craftwork Culture Square,

No. 4001, Fuqiang Road, Futian District 518048,

Shenzhen, P.R.C.

Telephone: 86 755 8828 6998 Fax: 86 755 8828 5299

Company name: Waltek Services (Shenzhen) Co., Ltd.

1/F, Fukangtai Building, Baima Road,

Songgang, Baoan District Shenzhen, Guangdong

China

Telephone: 86 755 2755 3488 Fax: 86 755 2755 3868

Report Number: 68.760.11.303.01 Page 3 of 18



3 Description of the Equipment Under Test

Description of the Equipment Under Test

Product: USB eScope Pro

Model no.: DP-M12

Options and accessories: NIL

Rating: DC 5V, Less than 300mA

Description of the EUT: NIL

Auxiliary Equipment and Cable Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Personal Computer	Lenovo	T4900V	0100640332
LCD monitor	View Sonic	VA521	922050101551
Keyboard	Shuangfeiyan	KB-3	-
Mouse	JEEJA	M-01	-

Report Number: 68.760.11.303.01 Page 4 of 18



4 Summary of Test Standards

Test Standards		
FCC Part 15 Subpart B	PART 15 - RADIO FREQUENCY DEVICES	
Subpart B - Unintentional Radiators		



5 Summary of Test Results

Technical Requirements				
FCC Part 15 Subpart B				
Test Condition	Pages	7	est Resul	t
		Pass	Fail	N/A
15.107 Conducted Emission AC Power Port	8			
15.109 Spurious radiated emissions	12			



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: YIGDP-M12 filing to comply with Section 15.107, 15.109 of the FCC Part 15, Subpart B Rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

- - Performed
- ☐ Not Performed

The Equipment Under Test

- - Fulfills the general approval requirements.
- ☐ **Does not** fulfill the general approval requirements.

Sample Received Date: 12 October 2011

Testing Start Date: 15 October 2011

Testing End Date: 26 October 2011

- Jiangsu TÜV Product Service Ltd. - Shenzhen Branch -

Tested By 2011-11-17 Zero Zhou
Test Lab Engineer Date Name Signature

Prepared By 2011-11-17 Ken Li
Project Engineer Date Name Signature

Reviewed By 2011-11-17 Paul Yu Signature

Assit. EMC Manager Date Name Signature



7 Technical Requirement

7.1 Conducted Emission

Test Method

- 1 The EUT was placed on a table, which is 0.8m above ground plane
- 2 The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
- 3 Maximum procedure was performed to ensure EUT compliance
- 4 A EMI test receiver is used to test the emissions from both sides of AC line

Limit

Frequency	QP Limit	AV Limit
MHz	dΒμV	dΒμV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

^{*}Decreasing linearly with logarithm of the frequency

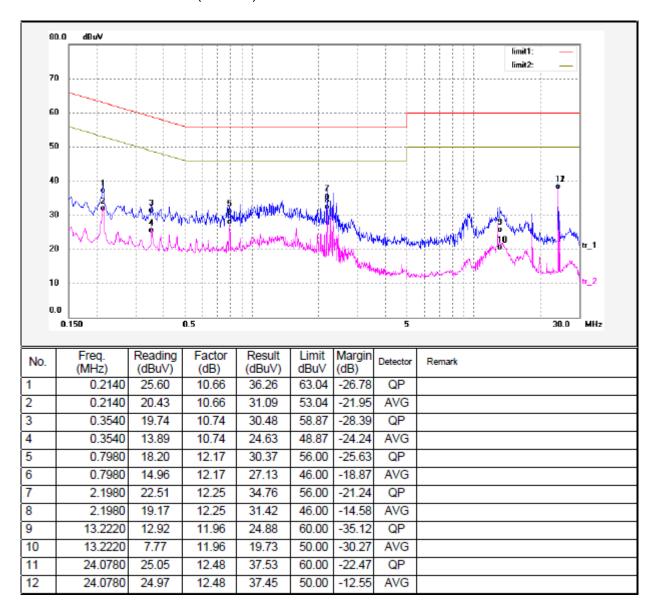


Conducted Emission

EUT: M/N: DP-M12
Op Cond: ON, Connect to PC

Test Spec: L

Comment: AC 120V/60Hz(For PC)



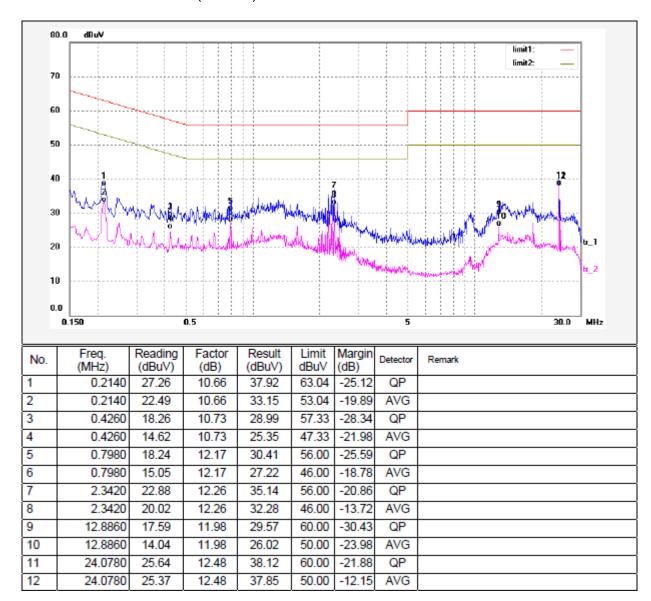


Conducted Emission

EUT: M/N: DP-M12
Op Cond: ON, Connect to PC

Test Spec: N

Comment: AC 120V/60Hz(For PC)





Test Equipment List

Conducted Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Test Receiver	ROHDE&SCHWARZ	ESPI	101155	2012-08-01
Two-Line V-Network	ROHDE&SCHWARZ	ENV216	100115	2012-08-01
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100205	2012-08-01
10m 50 Ohm Coaxial Cable	Schwarz Beck Mess-	AK 9514	-	N/A
with N-plug,individual	Elektrom			
length,usable up to				
3(5)GHz, Connectors				

Report Number: 68.760.11.303.01 Page 11 of 18



7.2 Radiated emissions

Test Method

- 1 The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2 The turntable shall be rotated for 360 degrees to determine the position of maximum emission level
- 3 EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4 Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5 Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

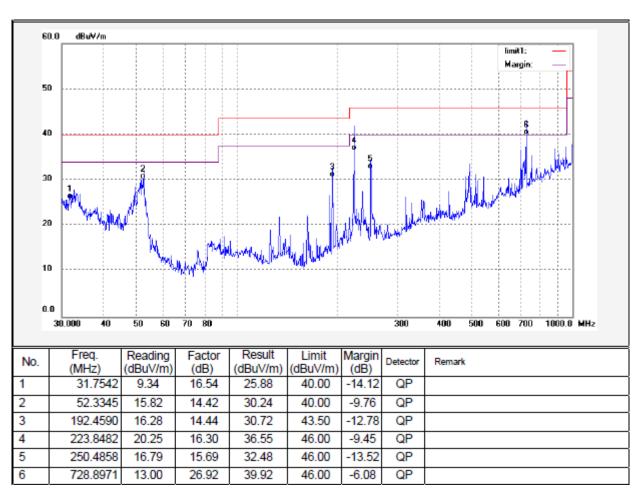
Limit

Frequency	Field Strength	Field Strength	Detector
MHz	uV/m	dBμV/m	
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



EUT: M/N: DP-M12
Op Cond: ON, Connect to PC

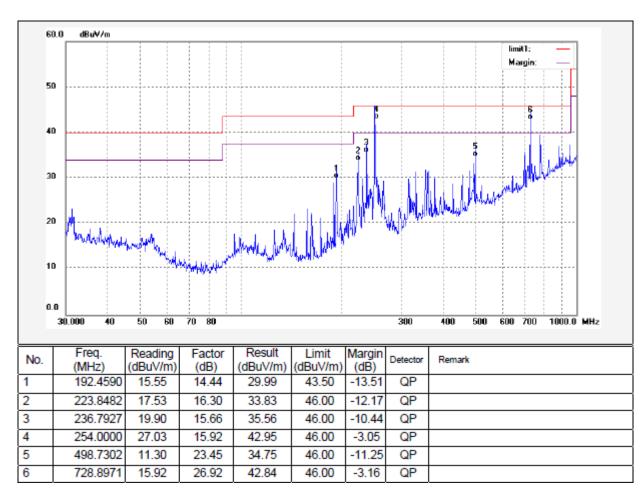
Test Spec: Horizontal Comment: DC 5V





EUT: M/N: DP-M12
Op Cond: ON, Connect to PC

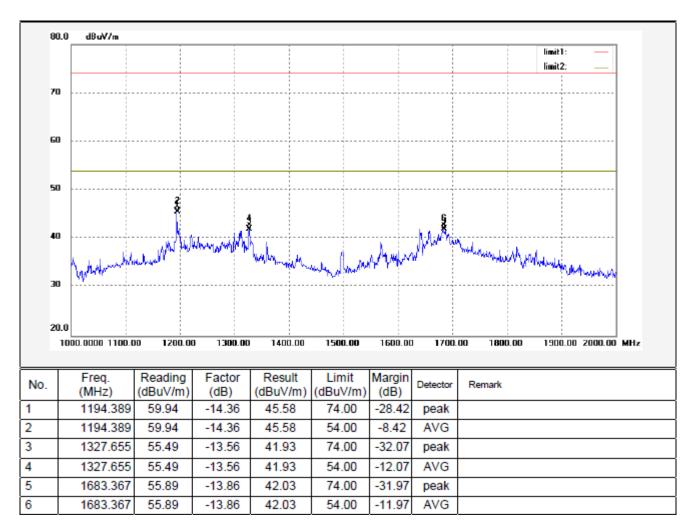
Test Spec: Vertical Comment: DC 5V





EUT: M/N: DP-M12
Op Cond: ON, Connect to PC

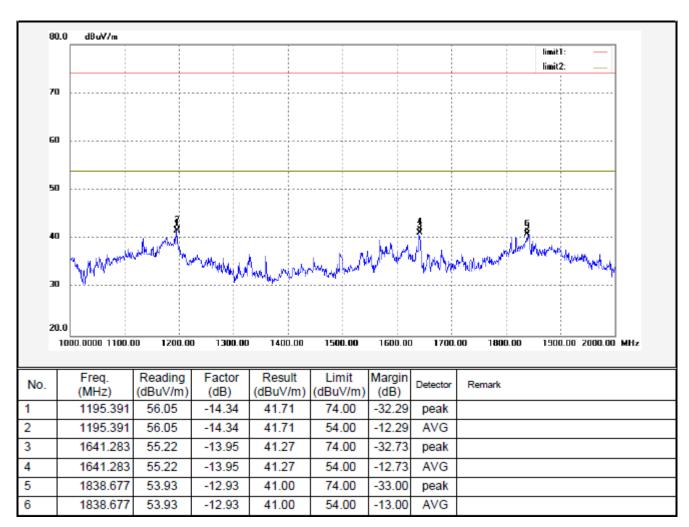
Test Spec: Horizontal Comment: DC 5V





EUT: M/N: DP-M12
Op Cond: ON, Connect to PC

Test Spec: Vertical Comment: DC 5V





Test Equipment List

Radiated Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMC Analyzer	Agilent	E7405A	MY45114943	2012-08-14
Trilog Broadband Antenne	Schwarz Beck Mess- Elektrom	VULB9163	336	2012-08-14
Broad-band Horn Antenna	Schwarz Beck Mess- Elektrom	BBHA 9120 D	667	2012-08-14
Broadband Preamplifier	Schwarz Beck Mess- Elektrom	BBV 9718	9718-148	2012-08-14
10m Coaxial Cable with N-male Connectors usable up to 18GHz,	Schwarz Beck Mess- Elektrom	AK 9515 H	-	N/A
10m 50 Ohm Coaxial Cable with N- plug,individual length,usable up to 3(5)GHz, Connectors	Schwarz Beck Mess- Elektrom	AK 9513	-	N/A
Positioning Controller	C&C LAB	CC-C-IF	MF7802108	N/A
Color Monitor	SUNSPO	SP-14C	-	N/A



8 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty

	Items	Extended Uncertainty
RE	Field strength (dBµV/m)	U=±5.03 (30MHz-1GHz)
RE	Field strength (dBµV/m)	U=±3.88 (1GHz-2GHz)
CE	Disturbance Voltage (dBµV)	U=±2.66dB