



# FCC TEST REPORT

Applicant	3Dconnexion
Address	7, Boulevard du Jardin Exotique, 98000 Monaco

Manufacturer	Dconnexion	
Adress	, Boulevard du Jardin Exotique, 98000 Monaco	
Product	CadMouse Compact	
Brand Name	3Dconnexion	
Model	3DX-700081	
Additional Model & Model Difference	3DX-600068	
Date of tests	Jan. 02 to Feb. 23, 2020	

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

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

Tested by Evans He Project Engineer/ EMC Department	Approved by David Huang Supervisor / EMC Department
mars. He	David Huang
	Date: Feb. 24, 2020
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sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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# **Table of Contents**

RELE	ASE CONTROL RECORD	3
1 1.1	SUMMARY OF TEST RESULTS MEASUREMENT UNCERTAINTY	
2 2.1 2.2 2.3	GENERAL INFORMATION GENERAL DESCRIPTION OF EUT DESCRIPTION OF TEST MODES DESCRIPTION OF SUPPORT UNITS	6 7 7
3 3.1 3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 3.1.6 3.1.7 3.2 3.2.1 3.2.2 3.2.3	EMISSION TEST CONDUCTED EMISSION MEASUREMENT LIMITS OF CONDUCTED EMISSION MEASUREMENT TEST INSTRUMENTS TEST PROCEDURE DEVIATION FROM TEST STANDARD TEST SETUP EUT OPERATING CONDITIONS TEST RESULTS RADIATED EMISSION MEASUREMENT LIMITS OF RADIATED EMISSION MEASUREMENT TEST INSTRUMENTS TEST PROCEDURE	8 9 10 10 11 13 13 15
3.2.3 3.2.4 3.2.5	DEVIATION FROM TEST STANDARD TEST SETUP	17
3.2.5 3.2.6 3.2.7	EUT OPERATING CONDITIONS TEST RESULTS	18
4	PHOTOGRAPHS OF THE TEST CONFIGURATION	21
5	APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	22



# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS200102S006	Original release	Feb. 24, 2020



# 1 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	Conducted test	PASS	Meets limits minimum passing margin is -10.98 dB at 0.4464 MHz		
	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets limits minimum passing margin is -6.12 dB at 906.4824 MHz		
	Radiated Emission Test (Above 1GHz)	N/A			



# 1.1 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 emission test	0.15MHz ~ 30MHz	±2.7dB	
Dedicted emissions	30MHz ~ 1GHz	±3.74dB	
Radiated emissions	Above 1GHz	±4.66dB	



#### 2 **GENERAL INFORMATION**

#### 2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	CadMouse Compact	
MODEL NO.	3DX-700081	
ADDITIONAL MODEL	3DX-600068	
FCC ID 2AAHQ-CMC		
POWER SUPPLY	DC 5V From Host Unit	
CABLE SUPPLIED	Unshielded, Non-detachable 2m	
THE HIGHEST OPERATING	Delew 100ML	
FREQUENCY	Below 108MHz	

#### NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 200102S006) for detailed product photo.
- 4. Additional models are identical with the test model 3DX-700081 except trade name, model number, and packaging.



# 2.2 DESCRIPTION OF TEST MODES

The EUT were tested under the following modes, the final worst mode was marked in boldface and recorded in this report.

#### **Conducted Emission TEST:**

Description of Test Mode	Test Voltage	
Normal Working	DC 5V From Host Unit	

#### Radiated Emission TEST (Below 1GHz):

Description of Test Mode	Test Voltage	
Normal Working	DC 5V From Host Unit	

#### Radiated Emission TEST (Above1GHz):

Description of Test Mode	Test Voltage
-	-

### 2.3 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook	DELL	Laitude 5280	P27S001	N/A
I	computer	DELE	Laitude 5200	F 27 300 T	

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A



#### **3 EMISSION TEST**

#### 3.1 CONDUCTED EMISSION MEASUREMENT

#### 3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

	Class A	(dBuV)	Class B (dBuV)	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

**NOTES**: (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 0.50 MHz.
- (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.

### 3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESL6	1300.5001K06-10 0262-eQ	Apr. 04, 19	Apr. 03, 20
Bilog Antenna	Sunol Sciences	JB6	A110712	Apr. 08, 19	Apr. 07, 20
Active Antenna	CMO-POWER	AL-130	121031	Mar. 27, 19	Mar. 26, 20
Signal Amplifier	HP	8447E	443008	Mar. 28, 19	Mar. 27, 20
3m Semi-anechoic Chamber	SAEMC	9m*6m*6m	N/A	Oct. 18,18	Oct. 17,21
Test Software	EZ-EMC	ICP-03A1	N/A	N/A	N/A

**NOTE:** 1. The test was performed at Shielded Room 843.

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



# 3.1.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2014 (section 7).

- 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 30 MHz was searched. Emission levels under (Limit 20dB) were not recorded.

#### NOTE:

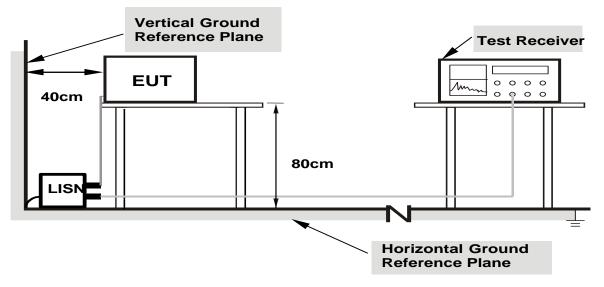
- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5.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

### **3.1.4 DEVIATION FROM TEST STANDARD**

No deviation.



# 3.1.5 TEST SETUP



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

### **3.1.6 EUT OPERATING CONDITIONS**

- a. Turned on the power of all equipment.
- b. EUT was operated according to the type description in manufacturer's specifications or the User's Manual.

#### Note: This product was powered by battery.

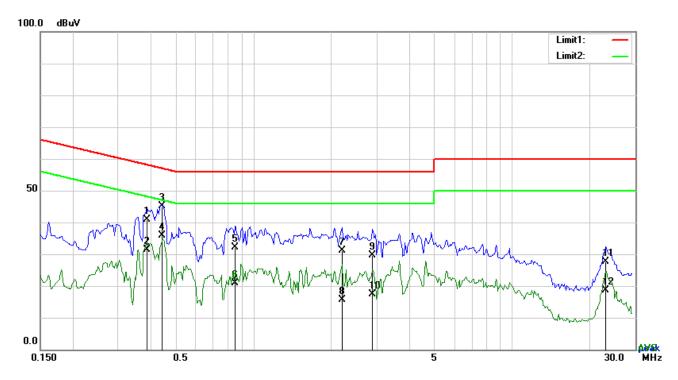


### 3.1.7 TEST RESULTS

TEST MODE	Normal Working	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V From Host Unit	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	24.3deg.C, 61% RH	TESTED BY	Huang Long

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.3879	30.72	QP	10.11	40.83	58.11	-17.28
2	L1	0.3879	21.36	AVG	10.11	31.47	48.11	-16.64
3	L1	0.4464	34.93	QP	10.10	45.03	56.94	-11.91
4	L1	0.4464	25.86	AVG	10.10	35.96	46.94	-10.98
5	L1	0.8520	21.92	QP	10.12	32.04	56.00	-23.96
6	L1	0.8520	10.82	AVG	10.12	20.94	46.00	-25.06
7	L1	2.2053	21.01	QP	10.15	31.16	56.00	-24.84
8	L1	2.2053	5.46	AVG	10.15	15.61	46.00	-30.39
9	L1	2.8917	19.42	QP	10.16	29.58	56.00	-26.42
10	L1	2.8917	7.17	AVG	10.16	17.33	46.00	-28.67
11	L1	23.1279	17.20	QP	10.48	27.68	60.00	-32.32
12	L1	23.1279	8.17	AVG	10.48	18.65	50.00	-31.35

REMARKS: The emission levels of other frequencies were very low against the limit.



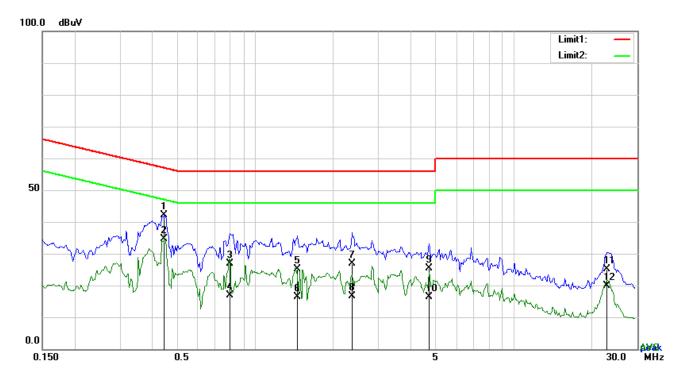
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TEST MODE	Normal Working 6DB BANDWIDTH		9 kHz
TEST VOLTAGE	DC 5V From Host Unit	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	24.3deg.C, 61% RH	TESTED BY	Huang Long

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	Ν	0.4464	32.02	QP	10.12	42.14	56.94	-14.80
2	Ν	0.4464	24.57	AVG	10.12	34.69	46.94	-12.25
3	Ν	0.7974	16.74	QP	10.14	26.88	56.00	-29.12
4	Ν	0.7974	6.83	AVG	10.14	16.97	46.00	-29.03
5	Ν	1.4565	14.90	QP	10.16	25.06	56.00	-30.94
6	Ν	1.4565	6.15	AVG	10.16	16.31	46.00	-29.69
7	Ν	2.3613	16.73	QP	10.17	26.90	56.00	-29.10
8	Ν	2.3613	6.45	AVG	10.17	16.62	46.00	-29.38
9	Ν	4.7043	15.25	QP	10.21	25.46	56.00	-30.54
10	Ν	4.7043	6.25	AVG	10.21	16.46	46.00	-29.54
11	Ν	22.9251	14.78	QP	10.43	25.21	60.00	-34.79
12	Ν	22.9251	9.50	AVG	10.43	19.93	50.00	-30.07

REMARKS: The emission levels of other frequencies were very low against the limit.



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### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 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	ES-003, ICES-003,		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	33.0	47	37				
960-1000	49.5	43.5	47	37				
1000-3000	Avg: 49.5	Avg: 43.5	Not defined	Not defined				
Above 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					
88-216	54	43.5	50.5	40.5			
216-230	56.9	46					
230-960	00.9	40		17 E			
960-1000	60	54	57.5	47.5			
1000-3000	Avg: 60	Avg: 54	Avg: 56 Peak: 76	Avg: 50 Peak: 70			
Above 3000	Peak: 80	Peak: 74	Avg: 60 Peak: 80	Avg: 54 Peak: 74			



### FREQUENCY RANGE OF RADIATED MEASUREMENT

### (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, 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) All emanation 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.



## **3.2.2 TEST INSTRUMENTS**

#### FREQUENCY RANGE BELOW 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESL6	1300.5001K06-1 00262-eQ	Apr. 04, 19	Apr. 03, 20
Bilog Antenna	Sunol Sciences	JB6	A110712	Apr. 08, 19	Apr. 07, 20
Active Antenna	CMO-POWER	AL-130	121031	Mar. 27, 19	Mar. 26, 20
Signal Amplifier	HP	8447E	443008	Mar. 28, 19	Mar. 27, 20
3m Semi-anechoic Chamber	SAEMC	9m*6m*6m	N/A	Oct. 18,18	Oct. 17,21
Test Software	EZ-EMC	ICP-03A1	N/A	N/A	N/A

NOTES: 1. The test was performed in 966 Chamber (a 3m Semi-anechoic chamber).

2. The calibration interval of the above test instruments is 12 months (Except 3m Semi-anechoic Chamber). And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3. The FCC Site Registration No. is 535293.

#### FREQUENCY RANGE ABOVE 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum	Agilent	E4446A	MY46180622	May. 8,19	May. 7,20
MXA signal analyzer	Agilent	N9020A	MY49100060	Mar. 28, 19	Mar. 27, 20
Horn Antenna	COM-POWER	HAH-118	71259	Mar. 22, 19	Mar. 21, 20
Horn Antenna	COM-POWER	HAH-118	71283	Mar. 20, 19	Mar. 19, 20
SHF-EHF Horn	Schwarzbeck	BBHA9170	BBHA9170147	Jun. 30, 19	Jun. 29, 20
SHF-EHF Horn	Schwarzbeck	BBHA9170	BBHA9170242	Jun. 30, 19	Jun. 29, 20
AMPLIFIER	EM Electornic Corporation	EM01G26G	60613	Mar. 28, 19	Mar. 27, 20
3m Semi-anechoic Chamber	SAEMC	9m*6m*6m	N/A	Oct. 18,18	Oct. 17,21
Test Software	EZ-EMC	ICP-03A1	N/A	N/A	N/A

NOTES: 1. The test was performed in 966 Chamber (a 3m Semi-anechoic chamber).

2. The calibration interval of the above test instruments is 12 months (Except 3m Semi-anechoic Chamber). And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3. The FCC Site Registration No. is 535293.



# 3.2.3 TEST PROCEDURE

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

#### <Frequency Range below 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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 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 for Average detection (AV) at frequency above 1GHz.

2. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.

3. Result level (dBuV/m)= Reading level(dBuV/m) + Correction Factor(dB/m)

4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier)

5. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Amplifier Gain(dB) (if the raw value contains the amplifier).

6. Margin value = Result 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 3 meter 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. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. 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 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 for Average detection (AV) at frequency above 1GHz.

2. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.

3. Result level (dBuV/m)= Reading level(dBuV/m) + Correction Factor(dB/m)

4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier)

5. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier).

6. Margin value = Result level – Limit value

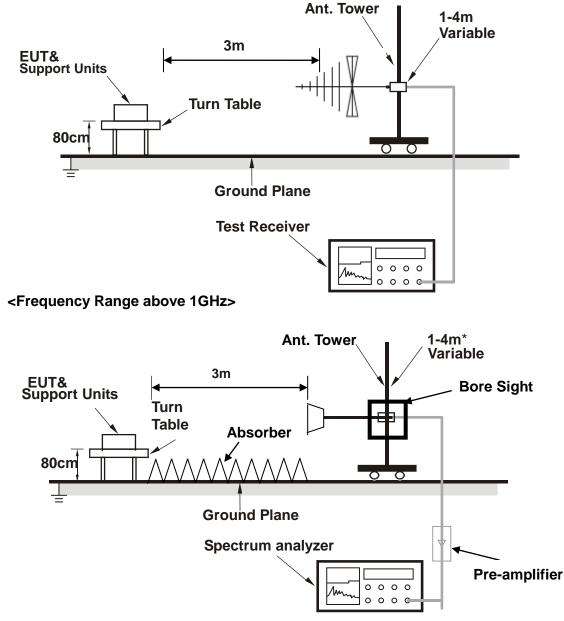
#### 3.2.4 DEVIATION FROM TEST STANDARD

No deviation.



# 3.2.5 TEST SETUP

<Frequency Range below 1GHz>



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

### 3.2.6 EUT OPERATING CONDITIONS

- a. Turn on the power supply of the EUT.
- b. EUT was operated according to the type description in

manufacturer's specifications or the User's Manual.

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### 3.2.7 TEST RESULTS

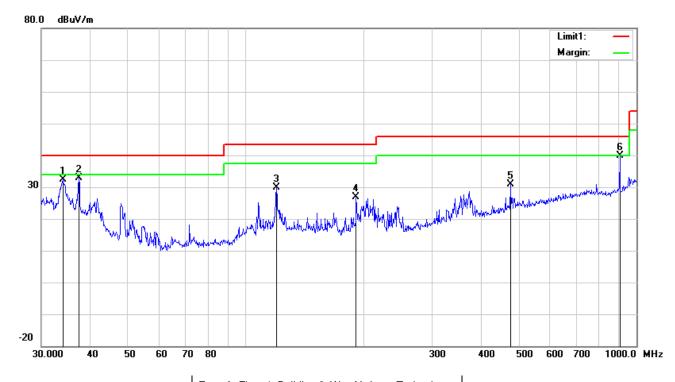
TEST MODE	Normal Working	FREQUENCY RANGE	30-1000MHz		
TEST VOLTAGE	DC 5V From Host Unit	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz		
ENVIRONMENTAL CONDITIONS	23.8deg. C, 54% RH	TESTED BY: Huang Long			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m									
No.	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	34.0365	35.71	18.29	22.26	0.73	32.47	40.00	-7.53	100	325
2	37.4165	38.51	15.79	22.26	0.77	32.81	40.00	-7.19	100	147
3	119.8556	37.15	13.87	22.36	1.16	29.82	43.50	-13.68	100	342
4	191.7450	36.01	11.65	22.33	1.54	26.87	43.50	-16.63	100	220
5	475.4991	33.33	17.21	21.86	2.28	30.96	46.00	-15.04	100	85
6	906.4824	35.14	22.53	20.87	3.08	39.88	46.00	-6.12	100	355

**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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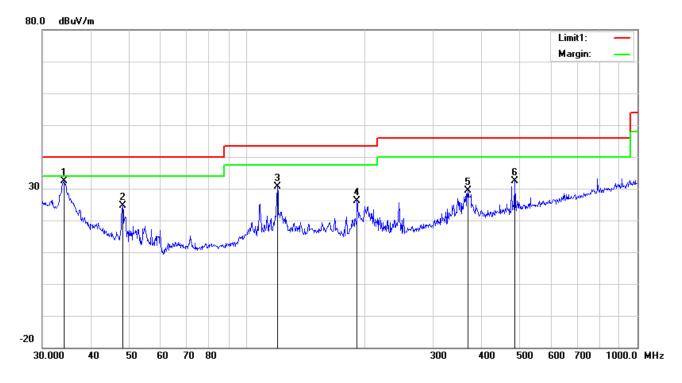


TEST MODE	Normal Working	FREQUENCY RANGE	30-1000MHz		
TEST VOLTAGE	DC 5V From Host Unit	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz		
ENVIRONMENTAL CONDITIONS	23.8deg. C, 54% RH	TESTED BY: Huang Long			

ANTENNA POLARITY & TEST DISTANCE: VERTICAL at 3 m										
No.	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	34.1561	35.59	18.20	22.26	0.74	32.27	40.00	-7.73	100	231
2	48.1626	36.96	9.21	22.35	0.78	24.60	40.00	-15.40	100	47
3	119.8556	37.99	13.87	22.36	1.16	30.66	43.50	-12.84	100	236
4	191.7450	35.16	11.65	22.33	1.54	26.02	43.50	-17.48	100	52
5	368.1116	34.40	15.03	22.10	2.03	29.36	46.00	-16.64	100	105
6	485.6093	34.47	17.41	21.84	2.34	32.38	46.00	-13.62	100	348

# **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.



Bureau Veritas (Shenzhen) Consumer Products Services Co., Ltd. Zone A, Floor 1, Building 2, Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Shenzhen Guangdong, 518108, China.



## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

Zone A, Floor 1, Building 2, Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Shenzhen Guangdong, 518108, China.



### 5 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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