

# Global United Technology Services Co., Ltd.

Report No.: GTS201909000203F05

# **TEST REPORT**

Applicant: Autel Intelligent Tech. Corp., Ltd.

7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili, **Address of Applicant:** 

Nanshan, Shenzhen 518055, China

Manufacturer: Autel Intelligent Tech. Corp., Ltd.

Address of 7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili,

Nanshan, Shenzhen 518055, China Manufacturer: Autel Intelligent Technology Corp., Ltd. Factory 1:

Address of Factory 1: 6th Floor, Building 1, Yanxiang Zhigu, NO.11 Gaoxin West

Rd, Guangming New District, Shenzhen City, Guangdong

Province.China.

Factory 2: AUTEL VIETNAM COMPANY LIMITED

Address of Factory 2: 4th Floor, Factory#6, Land#CN1, An Duong Industrial Zone,

Hong Phong Township, An Duong County, Hai Phong, Viet

Nam

**Equipment Under Test (EUT)** 

**Product Name:** MaxiFlash VCMI

Model No.: MaxiFlash VCMI

Trade Mark: Autel

FCC ID: WQ8VCMI1911

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: September 25, 2019

Date of Test: September 25-29, 2019

September 29, 2019 Date of report issued:

Pass \* Test Result:

Authorized Signature:

Robinson Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver. Page 1 of 30

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Report No.: GTS201909000203F05

# 2 Version

Version No.	Date	Description
00	September 29, 2019	Original

Prepared By:	Trankly	Date:	September 29, 2019
	Project Engineer	_	
Check By:	Lobinsonla	Date:	September 29, 2019

Reviewer



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# 4 Test Summary

Test Item	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission	FCC Part15.107	ANSI C63.4	Class B	Pass
Radiated Emissions	FCC Part15.109	ANSI C63.4	Class B	Pass

#### Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. # Refer to FCC Part 15.33 (b)(1) conditional testing procedure:

The highest frequency generated or used in the EUT	Test frequency range of Radiated emission
<108MHz	30MHz ~ 1GHz
108MHz ~ 500MHz	30MHz ~ 2GHz
500MHz ~ 1GHz	30MHz ~ 5GHz
>1GHz	30MHz ~ 5th harmonic of the highest frequency or 40 GHz, whichever is lower.

The highest frequency of the internal sources of the EUT is more than 108MHz.



# **5** General Information

## 5.1 General Description of EUT

Product Name:	MaxiFlash VCMI
Model No.:	MaxiFlash VCMI
Serial No.:	123456789101112
Hardware Version:	V6
Software Version:	V1.00.10
Test sample(s) ID:	GTS201909000203-2
Sample(s) Status	Normal sample
Power Supply:	Adapter
	Model: A361-1203000DI
	Input: AC 100-240V, 50/60Hz, 1.5A
	Output: DC 12V, 3000mA
	Rechargeable battery: DC3.8V 3750mAh 14.25Wh

# 5.2 Test mode and Test voltage

Test mode:	
Oscilloscope mode	Keep the EUT in Oscilloscope mode.
Multimeter mode	Keep the EUT in Multimeter mode.
Signal generator mode	Keep the EUT in Signal generator mode.
OBD mode	Keep the EUT in OBD mode.
Test voltage:	
AC 120V/60Hz	

## 5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
Supplied by client	ECU (MED17.1.6)	N/A	N/A
AUTEL	DV1912	Maxisys_Ultra	N/A



#### 5.4 Deviation from Standards

None.

#### 5.5 Abnormalities from Standard Conditions

None.

### 5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

### • IC —Registration No.: 9079A

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A

### • NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

#### 5.7 Test Location

Tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960



## 6 Test Instruments list

Rad	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 03 2015	July. 02 2020		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 26 2019	June. 25 2020		
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 26 2019	June. 25 2020		
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 26 2019	June. 25 2020		
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 26 2019	June. 25 2020		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
8	Coaxial Cable	GTS	N/A	GTS213	June. 26 2019	June. 25 2020		
9	Coaxial Cable	GTS	N/A	GTS211	June. 26 2019	June. 25 2020		
10	Coaxial cable	GTS	N/A	GTS210	June. 26 2019	June. 25 2020		
11	Coaxial Cable	GTS	N/A	GTS212	June. 26 2019	June. 25 2020		
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 26 2019	June. 25 2020		
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 26 2019	June. 25 2020		
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 26 2019	June. 25 2020		
15	Band filter	Amindeon	82346	GTS219	June. 26 2019	June. 25 2020		
16	Power Meter	Anritsu	ML2495A	GTS540	June. 26 2019	June. 25 2020		
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 26 2019	June. 25 2020		
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 26 2019	June. 25 2020		
19	Splitter	Agilent	11636B	GTS237	June. 26 2019	June. 25 2020		
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 26 2019	June. 25 2020		
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 20 2018	Oct. 19 2019		
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 20 2018	Oct. 19 2019		
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 20 2018	Oct. 19 2019		
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 26 2019	June. 25 2020		



Con	Conducted Emission							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 26 2019	June. 25 2020		
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 26 2019	June. 25 2020		
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 26 2019	June. 25 2020		
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
7	Thermo meter	KTJ	TA328	GTS233	June. 26 2019	June. 25 2020		
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 26 2019	June. 25 2020		
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 26 2019	June. 25 2020		

Gene	General used equipment:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 26 2019	June. 25 2020			
2	Barometer	ChangChun	DYM3	GTS255	June. 26 2019	June. 25 2020			



#### **Test Results and Measurement Data** 7

## 7.1 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109							
Test Method:	ANSI C63.4:2014							
Test Frequency Range:	30MHz to 6GHz							
Test site:	Measurement Dist	ance: 3m (	Semi-A	nechoic (	Chamber)			
Receiver setup:								
	Frequency Detector RBW VBW Value							
	30MHz-1GHz	Quasi-pe Peak	ak 1	120kHz	300kHz	Quasi-peak		
	Above 1GHz	Peak						
	710070 10112	Averag	е	1MHz	3MHz	Average		
Limit:	F	1.1	/ ID - \//	/ @0)		\/-1 -		
	Frequency			/m @3m)	-	Value		
	30MHz-88MHz 88MHz-216MH		40.00			lasi-peak lasi-peak		
	216MHz-960MH		46.00			lasi-peak		
	960MHz-1GHz		54.00			asi-peak		
	Above 1GHz		54.00	0		verage		
	Below 1GHz		74.00	0		Peak		
Test setup:	Above 1GHz							
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above							



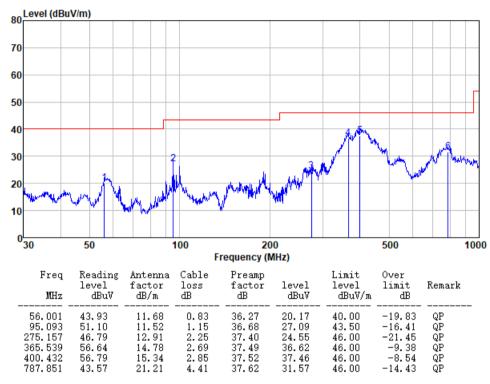
	the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied 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.
	4. 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.
	<ol><li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li></ol>
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1 012mbar
Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.2 for details ,and only show the worst mode
Test results:	Pass



#### **Measurement Data**

#### Below 1GHz

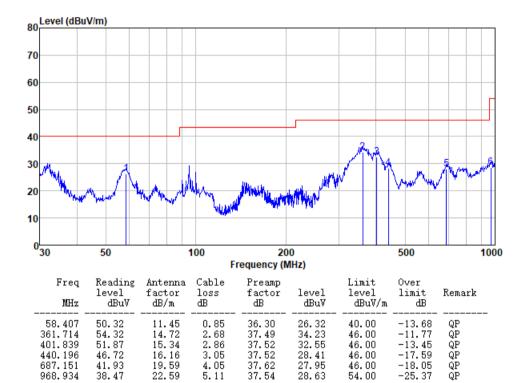
Т	est mode:	Multimeter	Antenna Polarity:	Horizontal	
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Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor



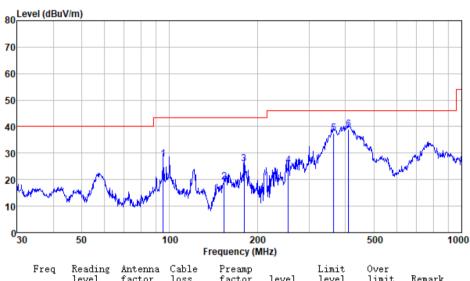
	Test mode:	Multimeter	Antenna Polarity:	Vertical
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Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor



Test mode: Oscilloscope Antenna Polarity: Horizontal



95.093 51.73 11.52 1.15 36.68 27.72 43.50 -15.78 QP 153.739 46.73 7.90 1.59 37.10 19.12 43.50 -24.38 QP 180.017 52.54 8.90 1.74 37.24 25.94 43.50 -17.56 QP 254.728 48.34 12.29 2.15 37.38 25.40 46.00 -20.60 QP	Freq MHz	level	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remarl	ζ
364.260 57.65 14.75 2.69 37.49 37.60 46.00 -8.40 QP	153.739 180.017 254.728	9 46.73 7 52.54 3 48.34	7.90 8.90 12.29	1.59 1.74 2.15	37.10 37.24 37.38	19.12 25.94 25.40	43.50 43.50 46.00	-24.38 -17.56 -20.60	QP QP QP	

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

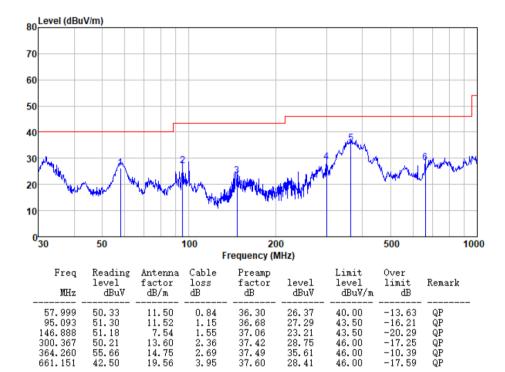


364.260 661.151

55.66 42.50

Report No.: GTS201907000127F04

Test mode: Oscilloscope Antenna Polarity: Vertical

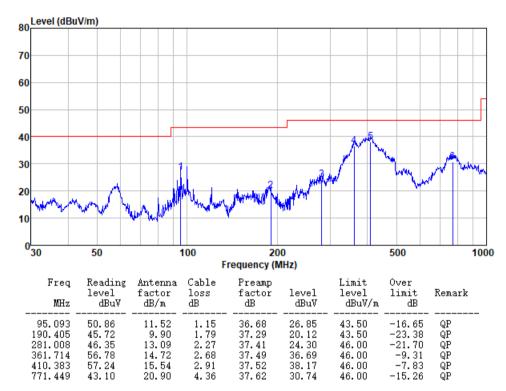


Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

35.61 28.41



Test mode: Signal generator Antenna Polarity: Horizontal



Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

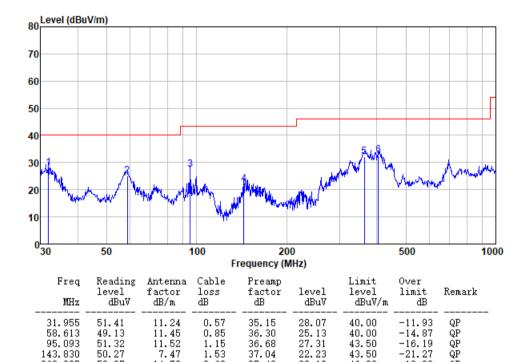


362.985 404.667 52.27 51.86 Report No.: GTS201907000127F04

QΡ

-13.82

Test mode: Signal generator Antenna Polarity: Vertical



Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

37.49

37.52

32.18

32.64

46.00

46.00

2.68 2.88

14.72

15.42



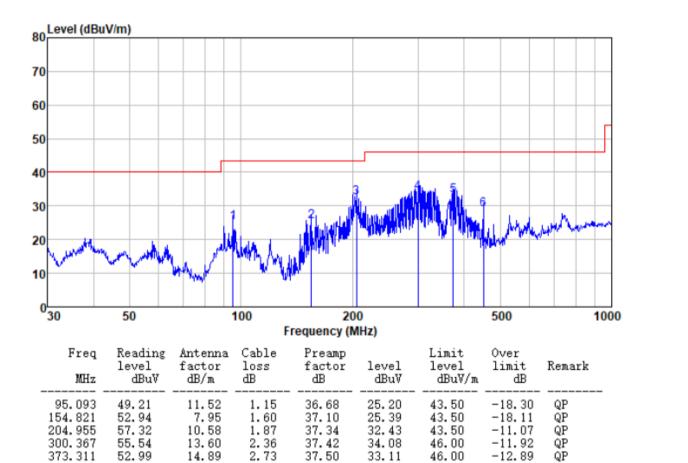
451.135

47.10

16.40

Report No.: GTS201907000127F04

Test mode:	OBD	Antenna Polarity:	Horizontal



Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

37.51

29.08

46.00

-16.92

3.09



295.147

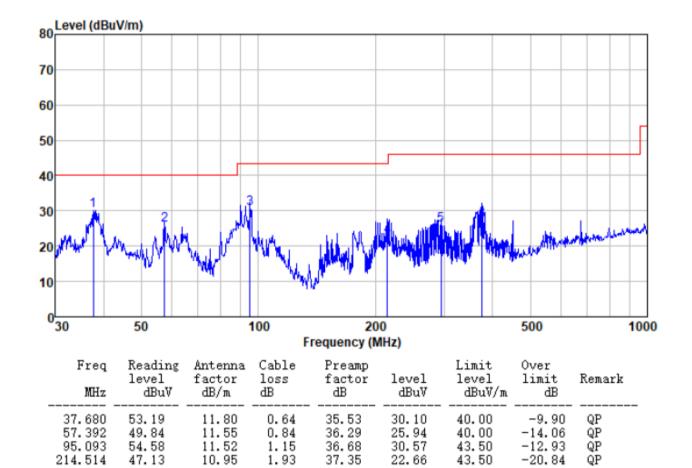
375.939

47.52

47.08

Report No.: GTS201907000127F04

Test mode:	OBD	Antenna Polarity:	Vertical
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Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

37.42

37.50

25.89

27.27

46.00

46.00

2.34

2.75

13.45

14.94

-20.11

-18.73

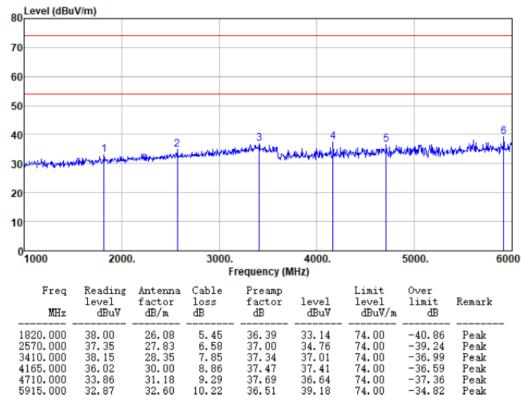
QΡ

QΡ



#### **Above 1GHz**

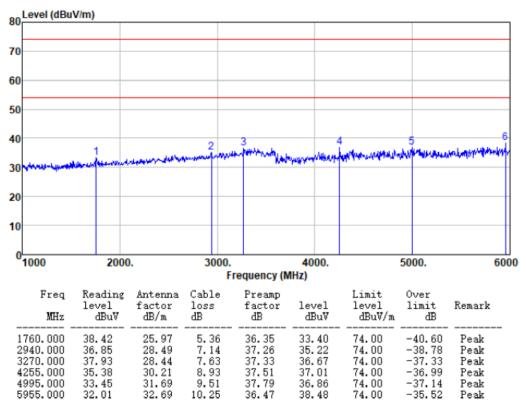
Test mode:	OBD	Antenna Polarity:	Horizontal
rest mode:	OBD	Antenna Polanty:	Horizontai



Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor



Test mode: OBD Antenna Polarity: Vertical
---



Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

#### Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



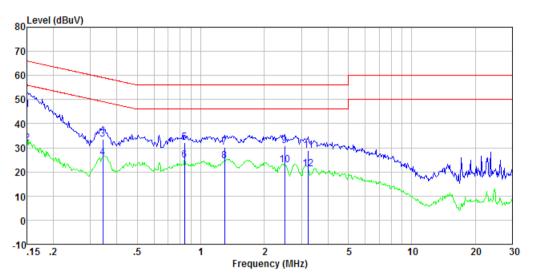
## 7.2 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107		
Test Method:	ANSI C63.4:2014		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Francisco de la (MIII-)	Limit (c	dBµV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5 0.5-30	56 60	46 50
Test setup:	Reference F		ÜÜ
Tost procedure	AUX Equipment  Test table/Insulation plane  Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Netwo		— AC power
Test procedure	<ol> <li>The E.U.T and simulators a line impedance stabiliza 50ohm/50uH coupling im</li> <li>The peripheral devices at through a LISN that provi with 50ohm termination. (test setup and photograp</li> <li>Both sides of A.C. line are interference. In order to fi positions of equipment ar changed according to AN measurement.</li> </ol>	ation network(L.I.S.N.) pedance for the measure also connected to the des a 500hm/50uH co (Please refers to the blans). The checked for maximum and the maximum emisted all of the interface of	. The provide a uring equipment. The main power supling impedance lock diagram of the m conducted sision, the relative sables must be
Test environment:	Temp.: 25 °C Humi	d.: 52% Pre	ss.: 1 012mbar
Test Instruments:	Refer to section 6 for details		•
Test mode:	Refer to section 5.2 for details	and only shows the w	vorst mode
Test results:	Pass		



#### **Measurement Data**

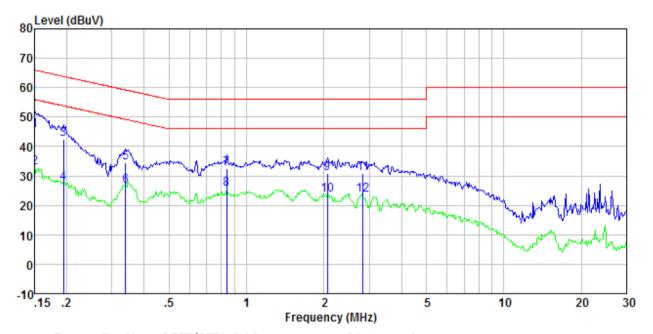
Test mode:   Multimeter   Phase Polarity:   Line
--



Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.15	45.41	0.40	0.07	45.88	66.00	-20.12	QP
0.15	31.28	0.40	0.07	31.75	56.00	-24.25	Average
0.34	33.15	0.38	0.10	33.63	59.13	-25.50	QP
0.34	25.23	0.38	0.10	25.71	49.13	-23.42	Average
0.84	31.65	0.23	0.14	32.02	56.00	-23.98	QP
0.84	24.57	0.23	0.14	24.94	46.00	-21.06	Average
1.30	29.84	0.20	0.16	30.20	56.00	-25.80	QP
1.30	24.14	0.20	0.16	24.50	46.00	-21.50	Average
2.50	30.48	0.20	0.18	30.86	56.00	-25.14	QP
2.50	22.41	0.20	0.18	22.79	46.00	-23.21	Äverage
3.24	28.55	0.20	0.19	28.94	56.00	-27.06	QP
3, 24	20, 83	0. 20	0.19	21. 22	46.00	-24.78	Average



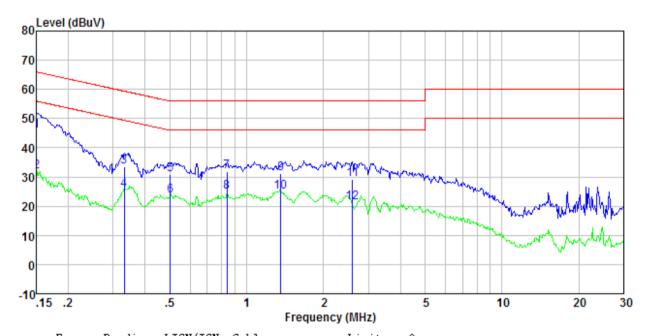
Test mode: Multimeter Phase Polarity: Neutral
---



Freq	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.15	45.12	0.40	0.07	45.59	66.00	-20.41	QP
0.15	32.51	0.40	0.07	32.98	56.00	-23.02	Average
0.19	41.87	0.40	0.11	42.38	63.84	-21.46	QP
0.19	27.09	0.40	0.11	27.60	53.84	-26.24	Average
0.34	34.15	0.38	0.10	34.63	59.22	-24.59	QP
0.34	25.99	0.38	0.10	26.47	49.22	-22.75	Äverage
0.84	32.26	0.23	0.14	32.63	56.00	-23.37	QP
0.84	25.26	0.23	0.14	25.63	46.00	-20.37	Äverage
2.07	30.56	0.20	0.18	30.94	56.00	-25.06	QP
2.07	23.17	0.20	0.18	23.55	46.00	-22.45	Äverage
2.84	30.60	0.20	0.19	30.99	56.00	-25.01	QP
2.84	23.14	0.20	0.19	23.53	46.00	-22.47	Äverage



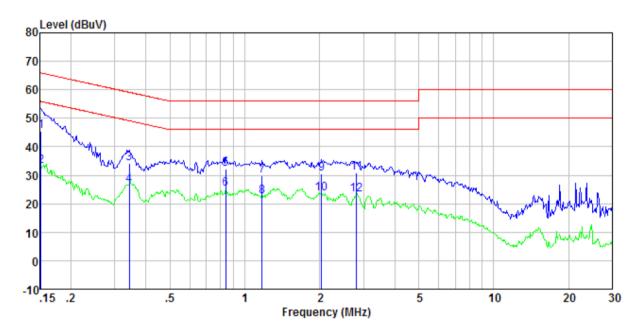
Test mode: Oscillosope Phase Polarity: Line
---



Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.15 0.15 0.33 0.33 0.50 0.50 0.84 1.36 1.36 2.59 2.59	45. 34 31. 26 33. 11 25. 21 30. 43 23. 23 31. 57 24. 47 30. 88 24. 66 28. 69 20. 68	0. 40 0. 40 0. 38 0. 38 0. 31 0. 23 0. 23 0. 20 0. 20 0. 20	0.07 0.07 0.10 0.10 0.11 0.11 0.14 0.14 0.16 0.16 0.18	45.81 31.73 33.59 25.69 30.85 23.65 31.94 24.84 31.24 25.02 29.07 21.06	66.00 56.00 59.40 49.40 56.00 46.00 56.00 46.00 56.00 46.00 46.00	-20. 19 -24. 27 -25. 81 -23. 71 -25. 15 -22. 35 -24. 06 -21. 16 -24. 76 -20. 98 -26. 93 -24. 94	QP Average
							•



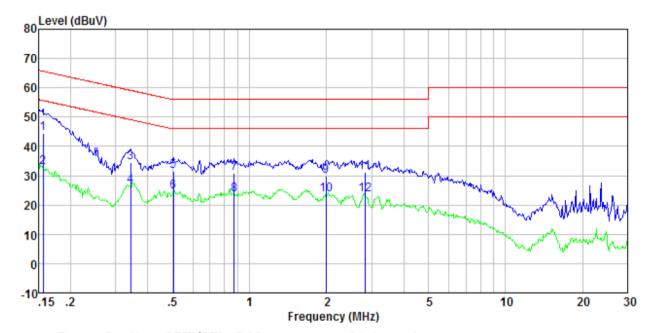
Test mode: Oscillosope Phase Polarity: Neutral
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Freq MHz	Keading level dBuV	factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0. 15 0. 15 0. 34 0. 34 0. 84 0. 84 1. 17 1. 17 2. 03 2. 03 2. 81 2. 81	45.08 32.68 33.72 25.93 31.72 24.92 29.40 22.19 30.19 23.21 30.36 22.87	0.40 0.40 0.38 0.38 0.23 0.20 0.20 0.20 0.20	0.07 0.07 0.10 0.10 0.14 0.14 0.16 0.16 0.18 0.18 0.19	45.55 33.15 34.20 26.41 32.09 25.29 29.76 22.55 30.57 23.59 30.75 23.26	65.91 55.91 59.13 49.13 56.00 46.00 56.00 46.00 56.00 46.00 46.00	-20.36 -22.76 -24.93 -22.72 -23.91 -20.71 -26.24 -23.45 -25.41 -25.25 -22.74	QP Average



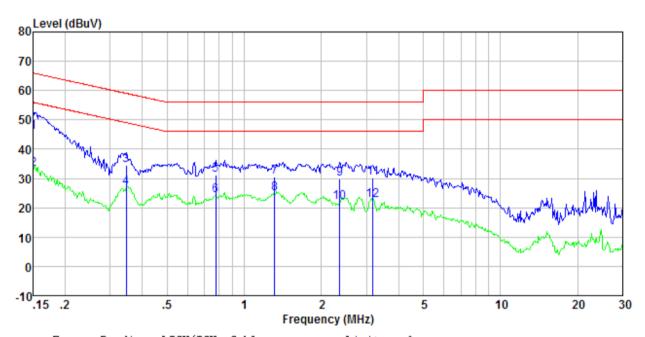
Test mode:	Signal generator	Phase Polarity:	Line
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Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.16	44.05	0.40	0.08	44.53	65.65	-21.12	QP
0.16 0.34	32.52 33.88	0.40 0.38	0.08 0.10	33.00 34.36	55.65 59.13	-22.65 -24.77	Average QP
0.34	26.02	0.38	0.10	26.50	49.13	-22.63	Äverage
0.50	31.15	0.31	0.11	31.57	56.00	-24.43	QP
0.50	24.17	0.31	0.11	24.59	46.00	-21.41	Average
0.87	30.36	0.22	0.14	30.72	56.00	-25.28	QP
0.87	23.13	0.22	0.14	23.49	46.00	-22.51	Average
1.99	29.43	0.20	0.18	29.81	56.00	-26.19	QP
1.99	23.01	0.20	0.18	23.39	46.00	-22.61	Average
2.82	30.69	0.20	0.19	31.08	56.00	-24.92	QP
2.82	23.15	0.20	0.19	23.54	46.00	-22.46	Average

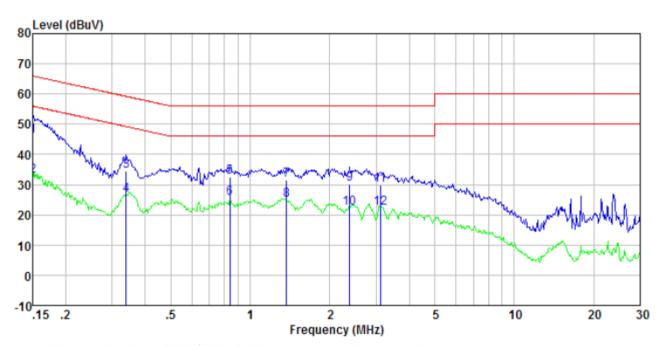


Test mode:	Signal generator	Phase Polarity:	Neutral



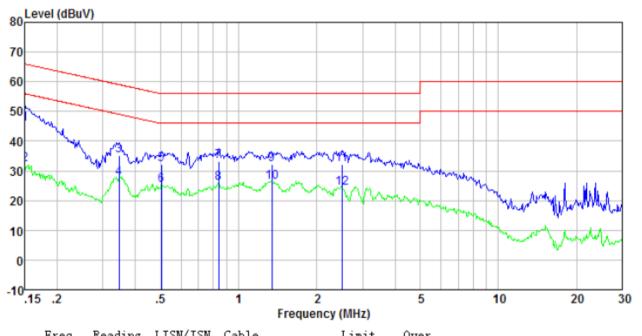
Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.15	45.48	0.40	0.07	45.95	66.00	-20.05	QР
0.15	32.57	0.40	0.07	33.04	56.00	-22.96	Average
0.35	33.93	0.38	0.10	34.41	59.05	-24.64	QP
0.35	26.52	0.38	0.10	27.00	49.05	-22.05	Average
0.78	30.88	0.24	0.14	31.26	56.00	-24.74	QP
0.78	23.70	0.24	0.14	24.08	46.00	-21.92	Average
1.32	30.31	0.20	0.16	30.67	56.00	-25.33	QP
1.32	24.67	0.20	0.16	25.03	46.00	-20.97	Äverage
2.36	29.55	0.20	0.18	29.93	56.00	-26.07	QP
2.36	21.49	0.20	0.18	21.87	46.00	-24.13	Äverage
3.17	29.91	0.20	0.19	30.30	56.00	-25.70	QP
3.17	22.32	0.20	0.19	22.71	46.00	-23.29	Average
J. 11	22.JZ	0.20	0.19	<<. II	40.00	23.28	vacrage





Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.15	45.70	0.40	0.07	46.17	66.00	-19.83	QP
0.15	32.50	0.40	0.07	32.97	56.00	-23.03	Average
0.34	34.07	0.38	0.10	34.55	59.22	-24.67	QP
0.34	25.96	0.38	0.10	26.44	49.22	-22.78	Average
0.84	32.08	0.23	0.14	32.45	56.00	-23.55	QP
0.84	25.05	0.23	0.14	25.42	46.00	-20.58	Average
1.37	31.24	0.20	0.16	31.60	56.00	-24.40	QP
1.37	24.61	0.20	0.16	24.97	46.00	-21.03	Average
2.38	29.78	0.20	0.18	30.16	56.00	-25.84	QP
2.38	21.89	0.20	0.18	22.27	46.00	-23.73	Average
3.11	29.54	0.20	0.19	29.93	56.00	-26.07	QP
3.11	21.77	0.20	0.19	22.16	46.00	-23.84	Average





0.35 34.55 0.38 0.10 35.03 59.05 -24.02 QP 0.35 26.97 0.38 0.10 27.45 49.05 -21.60 Average 0.50 31.75 0.31 0.11 32.17 56.00 -23.83 QP 0.50 24.64 0.31 0.11 25.06 46.00 -20.94 Average 0.84 32.73 0.23 0.14 33.10 56.00 -22.90 QP 0.84 25.66 0.23 0.14 26.03 46.00 -19.97 Average 1.34 31.77 0.20 0.16 32.13 56.00 -23.87 QP 1.34 25.87 0.20 0.16 26.23 46.00 -19.77 Average 2.50 31.74 0.20 0.18 32.12 56.00 -23.88 QP	Freq MHz	Keading level dBuV	factor dB/m	loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
	0.15 0.35 0.35 0.50 0.50 0.84 0.84 1.34 1.34	31. 75 34. 55 26. 97 31. 75 24. 64 32. 73 25. 66 31. 77 25. 87 31. 74	0. 40 0. 38 0. 38 0. 31 0. 31 0. 23 0. 23 0. 20 0. 20 0. 20	0.07 0.10 0.10 0.11 0.11 0.14 0.14 0.16 0.16	32. 22 35. 03 27. 45 32. 17 25. 06 33. 10 26. 03 32. 13 26. 23 32. 12	56.00 59.05 49.05 56.00 46.00 56.00 46.00 56.00 46.00 56.00	-23.78 -24.02 -21.60 -23.83 -20.94 -22.90 -19.97 -23.87 -19.77 -23.88	Average QP Average QP Average QP Average QP Average QP Average

#### Notes:

- An initial pre-scan was performed on the live and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak 2. emission.
- Final Level =Receiver Read level + LISN Factor + Cable Loss 3.



# 8 Test Setup Photo

Reference to the appendix I for details.

# 9 EUT Constructional Details

Reference to the <b>appendix II</b> for details.	
	End