





# RF TEST REPORT

**Applicant** ID TECH

FCC ID WQJ-VP3320

Product VP3320/VP3320S

**Brand** ViVOpay

Model VP3320:

IDMR-PBT72, IDMR-PBT72W, IDMR-PBT72B

VP3320S:

IDMR-SBT72, IDMR-SBT72W, IDMR-SBT72B

Marketing ViVOpay

Report No. R1905A0247-R2

Issue Date August 8, 2019

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2018)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Performed by: Peng Tao

Approved by: Kai Xu

# TA Technology (Shanghai) Co., Ltd.

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# Summary of measurement results

Number	Test Case	Clause in FCC rules	Verdict			
1	20 dB bandwidth	2.1049	PASS			
2	Frequency Stability Tolerance	15.225(e)	PASS			
3	Radiated Emissions	15.225 (a) (b) (c) (d) and 15.209	PASS			
4	Conducted Emissions	15.207	PASS			
	Date of Testing: May 22, 2019 ~July 26, 2019					



## 1. Test Laboratory

## 1.1. Notes of the test report

This report shall not be reproduced in full or partial, without the written approval of **TA technology** (shanghai) co., Ltd. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above. This report must not be used by the client to claim product certification, approval, or endorsement by any government agencies.

## 1.2. Test facility

### FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

### IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

#### VCCI (recognition number is C-4595, T-2154, R-4113, G-10766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

#### A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.



## 1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.

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# 2. General Description of Equipment under Test

### **Client Information**

Applicant	ID TECH	
Applicant address 10721 Walker Street, Cypress, California 90630		
Manufacturer	ID TECH	
Manufacturer address	10721 Walker Street, Cypress, California 90630	

### **General information**

EUT Description					
Model:	VP3320:IDMR-PBT72, IDMR-PB VP3320S:IDMR-SBT72, IDMR-S	·			
SN:	1				
Hardware Version:	Rev.A				
Software Version:	v1.00				
Power Supply:	Battery/AC adapter				
Antenna Type:	Internal Antenna				
Antenna Connector	A permanently attached antenna meet with the standard FCC Part 15.203 requirement)				
Test Mode:	NFC-A	NFC-B			
Modulation Type:	ASK	ASK, BPSK			
Operating Frequency Range(s)	13.56MHz				
Operating temperature range:	0 ° C to 50° C				
Operating voltage range:	4.75V to 5 V				
State DC voltage:	5V				
Note: The information of the EU	Γ is declared by the manufacture	er.			



## 3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

#### **Test standards**

- FCC CFR47 Part 2 (2018)
- FCC CFR47 Part 15C (2018)
- · ANSI C63.10 (2013)



## 4. Test Configuration

### **Test Mode**

The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.



## 5. Test Case Results

## 5.1. 20dB Bandwidth

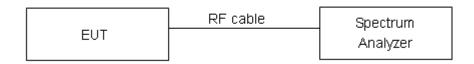
#### **Ambient condition**

Temperature	Temperature Relative humidity			
23°C ~25°C	45%~50%	101.5kPa		

#### **Method of Measurement**

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 10 kHz; VBW is set to 3 times thw RBW on spectrum analyzer.

## **Test Setup**



#### Limits

No specific occupied bandwidth requirements in part 2.1049.

## **Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U = 936 Hz.



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### **Test Results:**

## NFC-A

Carrier frequency	99% Bandwidth	20dB Bandwidth	Conclusion
(MHz)	(kHz)	(kHz)	
13.56MHz	23.097	26.81	PASS

## NFC-B

Carrier frequency	99% Bandwidth	20dB Bandwidth	Conclusion
(MHz)	(kHz)	(kHz)	
13.56MHz	23.178	26.93	PASS



## 5.2. Frequency Stability

#### **Ambient condition**

Temperature	Relative humidity
21°C ~25°C	40%~60%

#### **Method of Measurement**

1. Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from 0°C to +50°C in 10°C step size,

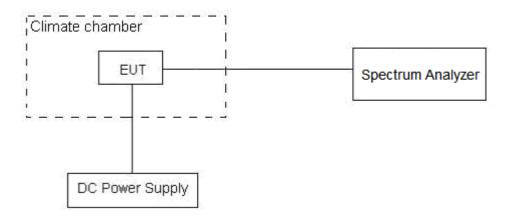
- (1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.
- (2) Measure the carrier frequency with the test equipment in a "call mode". These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.
- (3) Repeat the above measurements at 10°C increments from 0°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.
- 2. Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery-operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 4.75 V and 5 V, with a nominal voltage of 5 V.

#### **Test setup**





#### Limits

Rule Part 15.225 (e) The frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency over a temperature variation of −20 degrees to + 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

### **Measurement Uncertainty**

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor k = 3, U = 0.01ppm.



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## **Test Result**

## NFC-A

Test		Frequ	Tolerance (MHz)					
status		Totel affee (Will2)						
Status	1min	2min	5min	10min	1min	2min	5min	10min
0°C/5 V	13.559346	13.559339	13.559352	13.559345	0.000654	0.000661	0.000648	0.000655
5°C/5 V	13.559336	13.559332	13.559344	13.559336	0.000664	0.000668	0.000656	0.000664
10°C/5 V	13.559334	13.559327	13.559340	13.559333	0.000666	0.000673	0.000660	0.000667
15°C/ 5V	13.559327	13.559323	13.559337	13.559326	0.000673	0.000677	0.000663	0.000674
20°C/5 V	13.559321	13.559313	13.559332	13.559321	0.000679	0.000687	0.000668	0.000679
25°C/5 V	13.559313	13.559312	13.559329	13.559312	0.000687	0.000688	0.000671	0.000688
30°C/5 V	13.559309	13.559308	13.559319	13.559311	0.000691	0.000692	0.000681	0.000689
50°C/5 V	13.559304	13.559304	13.559317	13.559309	0.000696	0.000696	0.000683	0.000691
25°C/4.75 V	13.559303	13.559301	13.559315	13.559302	0.000697	0.000699	0.000685	0.000698
25°C/5.25 V	13.559296	13.559298	13.559311	13.559293	0.000704	0.000702	0.000689	0.000707

Test		Tolera	nce (%)		l impit (0/)	Conclusion	
status	1min	2min	5min	10min	Limit (%)	Conclusion	
0°C/5 V	0.004825	0.004873	0.004775	0.004828	0.01	PASS	
5°C/5 V	0.004895	0.004928	0.004841	0.004898	0.01	PASS	
10°C/5 V	0.004911	0.004965	0.004871	0.004918	0.01	PASS	
15°C/ 5V	0.004962	0.004994	0.004888	0.004971	0.01	PASS	
20°C/5 V	0.005005	0.005066	0.004926	0.005004	0.01	PASS	
25°C/5 V	0.005064	0.005075	0.004951	0.005074	0.01	PASS	
30°C/5 V	0.005096	0.005106	0.005024	0.005079	0.01	PASS	
50°C/5 V	0.005136	0.005133	0.005036	0.005092	0.01	PASS	
25°C/4.75 V	0.005137	0.005156	0.005051	0.005144	0.01	PASS	
25°C/5.25 V	0.005195	0.005180	0.005084	0.005211	0.01	PASS	



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## NFC-B

Toot		Frequ	Tolerance (MHz)					
Test		Tolerance (MHZ)						
status	1min	2min	5min	10min	1min	2min	5min	10min
0°C/5 V	13.559348	13.559336	13.559350	13.559352	0.000652	0.000664	0.000650	0.000648
5°C/5 V	13.559342	13.559327	13.559343	13.559345	0.000658	0.000673	0.000657	0.000655
10°C/5 V	13.559334	13.559325	13.559341	13.559335	0.000666	0.000675	0.000659	0.000665
15°C/ 5V	13.559325	13.559323	13.559340	13.559330	0.000675	0.000677	0.000660	0.000670
20°C/5 V	13.559318	13.559315	13.559335	13.559323	0.000682	0.000685	0.000665	0.000677
25°C/5 V	13.559318	13.559307	13.559327	13.559319	0.000682	0.000693	0.000673	0.000681
30°C/5 V	13.559312	13.559304	13.559319	13.559310	0.000688	0.000696	0.000681	0.000690
50°C/5 V	13.559309	13.559297	13.559316	13.559303	0.000691	0.000703	0.000684	0.000697
25°C/4.75 V	13.559301	13.559294	13.559314	13.559302	0.000699	0.000706	0.000686	0.000698
25°C/5.25 V	13.559291	13.559287	13.559310	13.559301	0.000709	0.000713	0.000690	0.000699

Test		Tolera	Limit(%)	Conclusion		
status	1min	2min	5min	10min		Conclusion
0°C/5 V	0.004812	0.004900	0.004794	0.004776	0.01	PASS
5°C/5 V	0.004853	0.004962	0.004848	0.004828	0.01	PASS
10°C/5 V	0.004913	0.004976	0.004858	0.004901	0.01	PASS
15°C/ 5V	0.004981	0.004992	0.004871	0.004940	0.01	PASS
20°C/5 V	0.005028	0.005054	0.004907	0.004990	0.01	PASS
25°C/5 V	0.005032	0.005111	0.004961	0.005024	0.01	PASS
30°C/5 V	0.005071	0.005133	0.005020	0.005086	0.01	PASS
50°C/5 V	0.005094	0.005185	0.005043	0.005143	0.01	PASS
25°C/4.75 V	0.005157	0.005205	0.005057	0.005145	0.01	PASS
25°C/5.25 V	0.005229	0.005259	0.005090	0.005156	0.01	PASS



#### 5.3. Radiates Emission

#### Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	102.5kPa

#### **Method of Measurement**

The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration. Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

#### **Out-of-band**

Below30MHz

RBW=9KHz, VBW=30KHz, detector=peak;

Above 30MHz,

RBW=100KHz, VBW=300KHz, Detector=peak

#### In-band

RBW=9KHz, VBW=30KHz, detector=peak;

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the loop antenna is vertical, the other antennas are vertical and horizontal.

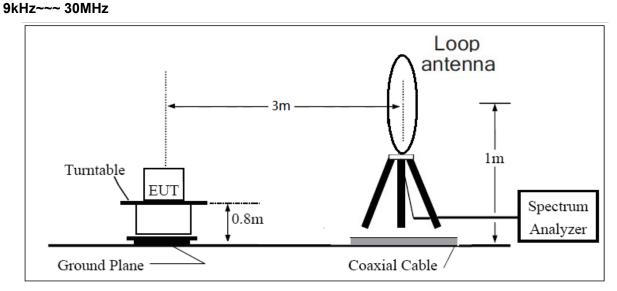
The test is in transmitting mode NFC-A and NFC-B, choose worst mode NFC-A in report.



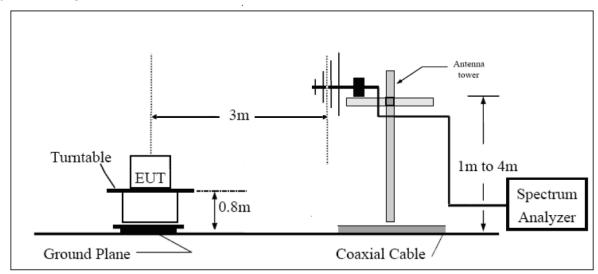


Test setup

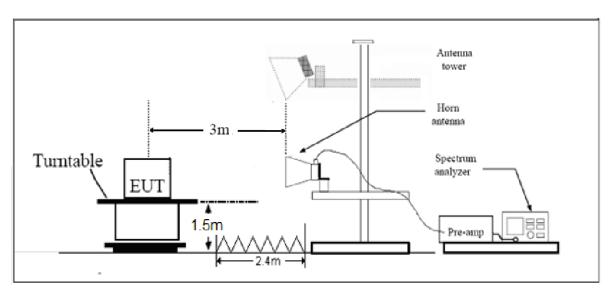
#### OL-11- 20M11-



## 30MHz~~~ 1GHz



### **Above 1GHz**



Note: Area side:2.4mX3.6m

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#### Limits

Clause 15.225(a) the field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

Clause 15.225(b) within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

Clause 15.225(c) within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

Clause 15.225(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Ţ.		
Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009-0.490	2400/F(kHz)	128.519dBuV/m -93.8dBuV/m
0.490-1.705	24000/F(kHz)	73.8dBuV/m -62.969dBuV/m
1.705–30.0	30	69.5 dBuV/m
30-88	100	40 dBuV/m
88-216	150	43.5 dBuV/m
216-960	200	46 dBuV/m
Above960	500	54 dBuV/m

When using other measurement distance, according to the standard C63.10, If that point is closer to the EUT than  $\lambda/2\pi$  and the limit distance is greater than  $\lambda/2\pi$ , the data was extrapolated to the specified measurement distance of 30m using extrapolation factor as specified in

§6.4.4.2. Extrapolation Factor = 40log(d near filed/ d measure )+20log(d limit / d near filed)

\*\*Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

§15.209 (d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

#### **Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.02 dB
200MHz-1GHz	3.28 dB
Above 1GHz	3.70 dB

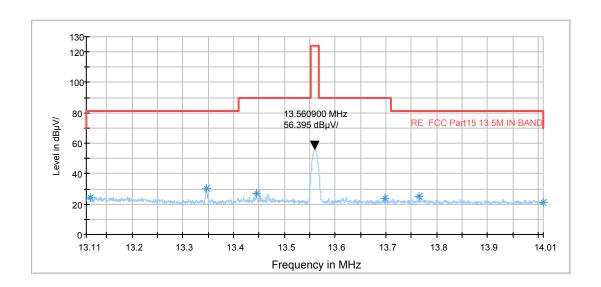
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### **Test result**

NFC-A was selected as the worst condition. The test data of the worst-case condition was recorded in this report.

#### In-band

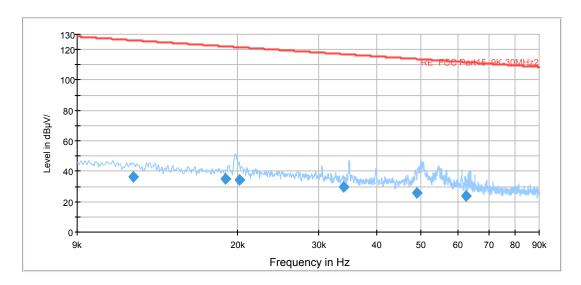


Radiates Emission from 13.11MHz to 14.01MHz

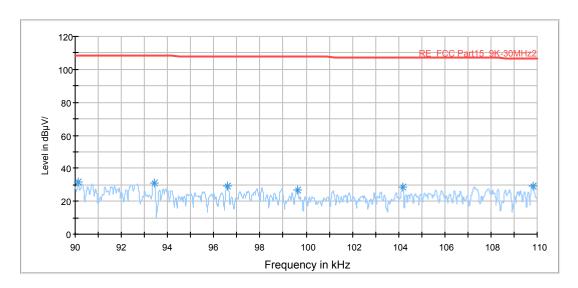
Note: This graph displays the maximum values of horizontal and vertical by software

### **Out-of-band**

The following graphs display the maximum values of horizontal and vertical by software. For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

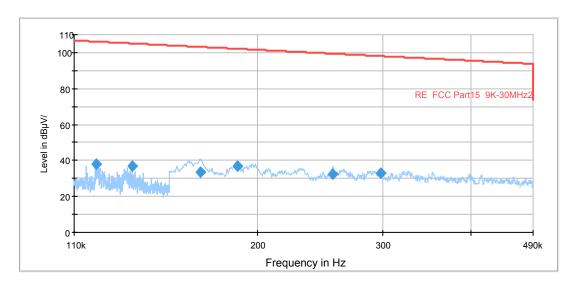


Radiates Emission from 9kHz to 90kHz

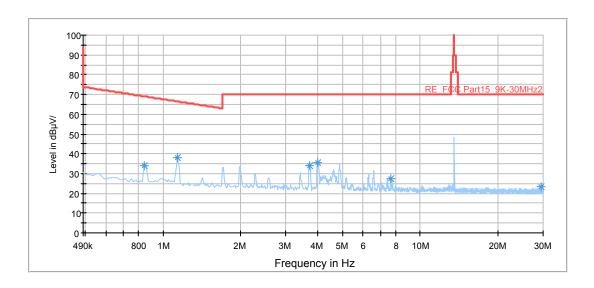


Radiates Emission from 90kHz to 110kHz

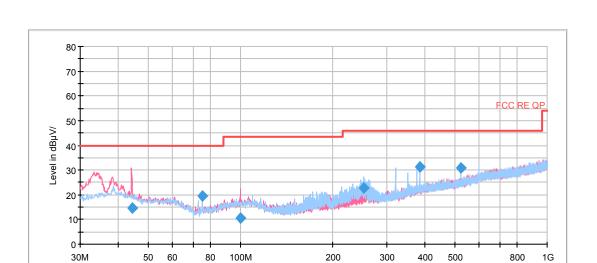
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Radiates Emission from 110kHz to 490kHz



Radiates Emission from 490kHz to 30MHz



Radiates Emission from 30MHz to 1GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Frequency in Hz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
44.226250	14.8	100.0	V	0.0	15.6	25.2	40.0
74.983750	19.7	225.0	Н	210.0	10.1	20.3	40.0
99.841250	10.7	100.0	V	111.0	13.4	32.8	43.5
251.766250	22.7	100.0	Н	100.0	14.0	23.3	46.0
383.968750	31.2	100.0	Н	168.0	18.9	14.8	46.0
524.982500	31.0	189.0	Н	76.0	21.6	15.0	46.0

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#### 5.4. Conducted Emission

#### **Ambient condition**

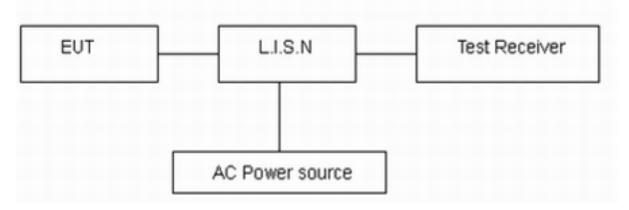
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

#### **Methods of Measurement**

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10-2013. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.

The test is in transmitting mode.

#### **Test Setup**



Note: AC Power source is used to change the voltage 110V/60Hz.

#### Limits

§15.207 (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency	Conducted L	_imits(dBμV)
(MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56 <sup>*</sup>	56 to 46 <sup>*</sup>
0.5 - 5	56	46

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5 - 30	60	50		
* Decreases with the logarithm of the frequency.				

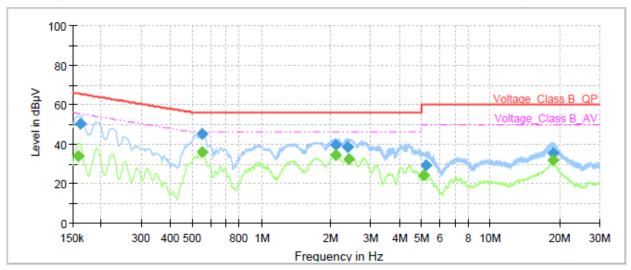
## **Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96, U = 2.69 dB.



### **Test Results:**

Following plots, Blue trace uses the peak detection and Green trace uses the average detection.

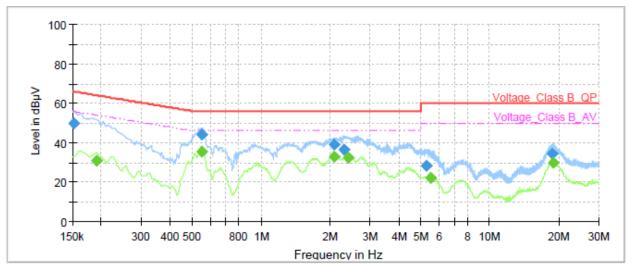


Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.16		33.72	55.52	21.80	1000.0	9.000	L1	ON	19.12
0.16	50.03		65.40	15.37	1000.0	9.000	L1	ON	19.13
0.55	44.89		56.00	11.11	1000.0	9.000	L1	ON	19.25
0.55		36.09	46.00	9.91	1000.0	9.000	L1	ON	19.25
2.10		34.37	46.00	11.63	1000.0	9.000	L1	ON	19.09
2.11	39.27		56.00	16.73	1000.0	9.000	L1	ON	19.08
2.37	38.42		56.00	17.58	1000.0	9.000	L1	ON	19.03
2.41		32.35	46.00	13.65	1000.0	9.000	L1	ON	19.03
5.14		24.05	50.00	25.95	1000.0	9.000	L1	ON	19.09
5.21	29.31		60.00	30.69	1000.0	9.000	L1	ON	19.09
18.69	35.39		60.00	24.61	1000.0	9.000	L1	ON	19.58
18.70		31.57	50.00	18.43	1000.0	9.000	L1	ON	19.58

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz





Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	49.55		65.88	16.33	1000.0	9.000	N	ON	19.07
0.19		30.74	54.02	23.28	1000.0	9.000	N	ON	19.18
0.55		35.20	46.00	10.80	1000.0	9.000	N	ON	19.25
0.55	44.11		56.00	11.89	1000.0	9.000	N	ON	19.25
2.08		32.88	46.00	13.12	1000.0	9.000	N	ON	19.10
2.09	38.99		56.00	17.01	1000.0	9.000	N	ON	19.09
2.31	36.19		56.00	19.81	1000.0	9.000	N	ON	19.04
2.41		32.53	46.00	13.47	1000.0	9.000	N	ON	19.03
5.31	28.27		60.00	31.73	1000.0	9.000	N	ON	19.09
5.50		22.02	50.00	27.98	1000.0	9.000	N	ON	19.10
18.77	34.39		60.00	25.61	1000.0	9.000	N	ON	19.43
18.89		29.67	50.00	20.33	1000.0	9.000	N	ON	19.44

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz



## 6. Main Test Instruments

Name	Manufacturer	Туре	Serial Number	Calibration Date	Expiration Time
Spectrum Analyzer	R&S	FSV30	100815	2018-12-16	2019-12-15
EMI Test Receiver	R&S	ESCI	100948	2019-05-19	2020-05-18
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2017-09-26	2019-09-25
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-201	2017-11-18	2019-11-17
EMI Test Receiver	R&S	ESR	101667	2019-05-19	2020-05-18
LISN	R&S	ENV216	101171	2016-12-16	2019-12-15
Spectrum Analyzer	Agilent	N9020A	MY52330084	2019-05-19	2020-05-18
TEMPERATURE CHAMBER	WEISS	VT4002	582261194500 10	2018-12-16	2019-12-15
RF Cable	Agilent	SMA 15cm	0001	2019-06-14	2019-09-13
Software	R&S	EMC32	9.26.0	1	1

\*\*\*\*\*END OF REPORT \*\*\*\*\*



# **ANNEX A: EUT Appearance and Test Setup**

## A.1 EUT Appearance







Picture 1 EUT and Accessory



## A.2 Test Setup



9kHz - 30MHz



30M Hz-1GHz

**Picture 2 Radiated Emission Test Setup** 





**Picture 3 Conducted Emission Test Setup**