

# **TEST REPORT**

## No. I19D00121-EMC01

## **For**

Client: Shanghai Sunmi Technology Co.,Ltd.

**Production: Smart POS system** 

Model Name: T6900

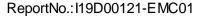
**Brand Name: SUNMI** 

FCC ID: 2AH25T6900

Hardware Version: B1691\_MAIN\_PCB

Software Version: V1.0.1

Issued date: 2019-08-26





## **NOTE**

- 1. The test results in this test report relate only to the devices specified in this report.
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## **Test Laboratory:**

East China Institute of Telecommunications

Add: 7-8F, G Area, No.668, Beijing East Road, Huangpu District, Shanghai, P. R. China

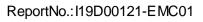
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Report Issued Date : Aug. 26, 2019

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E-Mail: welcome@ecit.org.cn





### **Revision Version**

Report Number	Revision	Date	Memo
I19D00121-EMC01	00	2019-08-26	Initial creation of test report

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## 1. Test Laboratory

## 1.1. Testing Location

Company Name:	ECIT Shanghai, East China Institute of Telecommunications		
Address:	7-8F, G Area, No. 668, Beijing East Road, Huangpu District,		
	Shanghai, P. R. China		
Postal Code:	200001		
Telephone:	(+86)-021-63843300		
Fax:	(+86)-021-63843301		
FCC registration No:	958356		

## 1.2. Testing Environment

Normal Temperature:	<b>15-35℃</b>
Relative Humidity:	30-60% RH
Supply Voltage	120V/60Hz

## 1.3. Project data

Project Leader:	Chen Minfei
Testing Start Date:	2019-08-02
Testing End Date:	2019-08-16

## 1.4. Signature

Lu Huifang

(Prepared this test report)

You Jinjun

(Reviewed this test report)

Zheng Zhongbin

(Approved this test report)



## 2. Client Information

## 2.1. Applicant Information

Company Name	Shanghai Sunmi Technology Co.,Ltd.	
Address	Room 605, Block 7, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai, China	
Telephone	86-18721763396	
Postcode	/	

### 2.2. Manufacturer Information

Company Name	Shanghai Sunmi Technology Co.,Ltd.		
Address	Room 605, Block 7, KIC Plaza, No.388 Song Hu Road, Yang Pu		
7 laai 866	District, Shanghai, China		
Telephone	86-18721763396		
Postcode	/		



## 3. Equipment under Test (EUT) and Ancillary Equipment (AE)

### 3.1. About EUT

Product Name	Smart POS system
Model name	T6900
GSM Frequency Band	GSM850/GSM900/GSM1800/GSM1900
UMTS Frequency Band	Band I /Band II /Band IV/Band V /BandVⅢ
LTE Frequency Band	LTE 1/2/3/4/5/7/17/28/38/41
Additional Communication Function	BT4.2;WiFi 802.11a,b,g,n;NFC;GPS;

## 3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
865150030742925/		B1691 MAIN PCB	V1.0.1	2019-07-23
N04	865150030742926	B 1091_WAIN_FCB	V 1.U. I	2019-07-23
NO1	869006040013739/	D1601 MAIN DCD	\/1.0.1	2019-07-23
N01	869006040014034	B1691_MAIN_PCB	V1.0.1	2019-07-23

<sup>\*</sup>EUT ID: is used to identify the test sample in the lab internally.

## 3.3. Internal Identification of AE used during the test

AE ID*	Description	Model	SN
CA04	Adapter	TPA-23A050200UU01	NA
UA03	USB Cable	USB2.0 A/M TO TYPE	NA
		C/M CABLE 1.5M	
		black	
BA04	Battery	T6900	B19069011894
AE1	LAN Cable	NA	NA
AE2	RS232 Cable	NA	NA
AE3	VGA Cable	NA	NA
AE4	Keyboard	KB212-B	CN-0Y88XT-65890-12I-005Q-A00
AE5	Mouse	MS111-P	CN-011D3V-71581-19J-1A64
AE6	Desktop PC	OptiPlex 790 DT	X8RP1 A01 APCC
AE7	Notebook PC	DELL Latitude E6510	NA
AE8	SanDisk	microSDHC UHS-I	NA
	Ultra32GB		

<sup>\*</sup>AE ID: is used to identify the test sample in the lab internally.

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<sup>\*</sup>The AE were provided by the lab.



## 4. Reference Documents

## 4.1 Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15, Subpart B	Radio frequency devices	2019/8/21
- Caspant D	Method of Measurement of Radio-Noise Emissions from	
ANSI C63.4	Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

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### 5. Test Results

### 5.1 Summary of Test Results

Items	Test List	Clause in FCC rules	Verdict
1	Radiated Emission	15.109(a)	Pass
2	AC Conducted Emission	15.107(a)	Pass

#### 5.2 Statements

The T6900, supporting GSMWCDMA/LTE.etc, manufactured by Shanghai Sunmi Technology Co.,Ltd. is a new product for testing. ECIT only performed test cases which identified with Pass/Fail/Inc result in section 5.1.

ECIT has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.

Note: This project has two sets of configured sample N04 (No fingerprint) and N01 (With the fingerprint), among which the N04 sample is the main test, and the N01 sample tests the worst mode of the N04 sample.



## 6. Test Equipment Utilized

## 6.1 Radiated Emission Equipment list

Item	Instrument Name	Туре	Serial Number	Manufacturer	Cal. Date	Cal. interval
1	Universal Radio Communication	CMU200	123126	R&S	2019-05-10	1 year
2	Universal Radio Communication	CMW500	CMW500 104178 R&S 2		2019-05-10	1 year
3	Test Receiver	ESU40	100307	R&S	2019-05-10	1 year
4	Trilog Antenna	VULB9163	VULB9163-5 15	Schwarzbeck	2017-02-25	3 years
5	Double Ridged Guide	ETS-3117	00135885	ETS	2017-01-11	3 years
6	EMI Test Software	EMC32 V9.15	NA	R&S	NA	NA
7	GPS Simulator	GSS 4200	1182	SPIRENT	2018-12-17	1 year

## 6.1 AC Conducted Emission Equipment list

Item	Instrument Name	Туре	Serial Number	Manufacturer	Cal. Date	Cal. interval
1	Universal Radio Communication	CMU200	123123	R&S	2019-05-10	1 year
2	Universal Radio Communication	CMW500	104178 R&S		2019-05-10	1 year
3	Test Receiver	ESCI	SCI 101235 R&S		2019-05-10	1 year
4	2-Line V-Network	ENV216	101380	R&S	2019-04-24	1 year
5	EMI Test Software	EMC32 V10.35.02	NA	R&S	NA	NA
6	GPS Simulator	GSS 4200	1182	SPIRENT	2018-12-17	1 year



## 7. System Configuration during Test

#### 7.1 Test Mode

### N04 Sample:

Test Item	Function Type					
	Mode 1: USB cable (Data Link with PC) <figure 1=""></figure>					
AC Conducted	Mode 2: Adapter charging <figure 2=""></figure>					
Emission	Mode 3: GPS mode <figure 2=""></figure>					
	Mode 4: GSM 850 receiver <figure 2=""></figure>					
	Mode 1: USB cable (Data Link with PC) <figure 1=""></figure>					
Radiated Emission	Mode 2: Adapter charging <figure 2=""></figure>					
Radiated Effilssion	Mode 3: GPS mode <figure 2=""></figure>					
	Mode 4: GSM 850 receiver <figure 2=""></figure>					

#### Remark:

- 1. All test modes are performed, only the worst cases test data are recorded in this report.
- 2. After laboratory verification, GSM850 receiver is the worst mode of receiving part.
- 3. Data Link with PC means data application transferred mode between EUT and PC.
- 4. EUT and GPS simulator (GSS4200) connection is established.
- 5. The worst case for conducted emission is mode 2. The worst case of radiated emission for 30MHz-1GHz is mode 2 and for 1GHz -18GHz is mode 2.

#### N01 Sample:

Test Item	Function Type
AC Conducted Emission	Mode 2: Adapter charging <figure 2=""></figure>
Radiated Emission	Mode 2: Adapter charging <figure 2=""></figure>

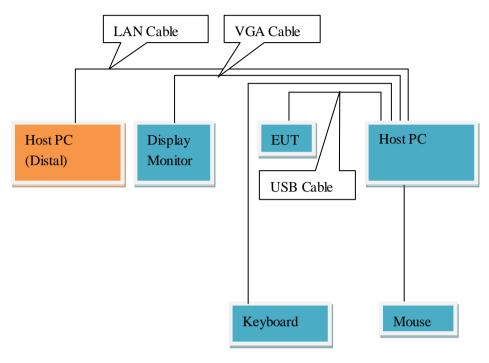
#### Remark:

- 1. All test modes are performed, only the worst cases test data are recorded in this report.
- 2. After laboratory verification, GSM850 receiver is the worst mode of receiving part.
- 3. Data Link with PC means data application transferred mode between EUT and PC.
- 4. EUT and GPS simulator (GSS4200) connection is established.
- 5. The worst case for conducted emission is mode 2. The worst case of radiated emission for 30MHz-1GHz is mode 2 and for 1GHz -18GHz is mode 2.

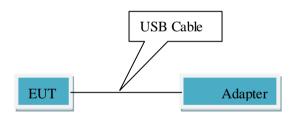
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## 7.2 Connection Diagram of Test System



<Figure 1> Mode 1



<Figure 2> Mode 2~4



### 8. Measurement Results

Only the worst test result was shown in this report.

#### 8.1 Radiated Emission 30MHz-18GHz

#### **Method of Measurement**

For 30MHz -1000MHz, the EUT was placed on the top of a rotating 0.8m table above the ground at a semi-anechoic chamber. The distance between the EUT and the received antenna was 3 meters. The table was rotated 360 degree and the received antenna mounted on a variable-height antenna tower was varied from 1m to 4m to find the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement. Tested in accordance with the procedures of ANSI C63.4-2014, section 8.3.

For 1000MHz-18000MHz, The maximal emission value was acquired by adjusting the antenna height, The table was rotated 360 degree to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement.

### Limits for Radiated Emission at a measuring distance of 3m

Frequency Range (MHz)	Quasi-Peak (dBuV/m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Frequency Range (MHz)	Peak (dBuV/m)	Average (dBuV/m)
Above 1000	74	54

#### **Test conditions**

Frequency Range (MHz)	RBW/VBW	Sweep Time (s)
30-1000	120kHz/300kHz	Auto
1000-18000	1MHz/3MHz	Auto

#### **Uncertainty Measurement**

The measurement uncertainty (30MHz-1000MHz) is 4.98 dB (k=2).

The measurement uncertainty (1000MHz-18000MHz) is 5.06 dB (k=2).

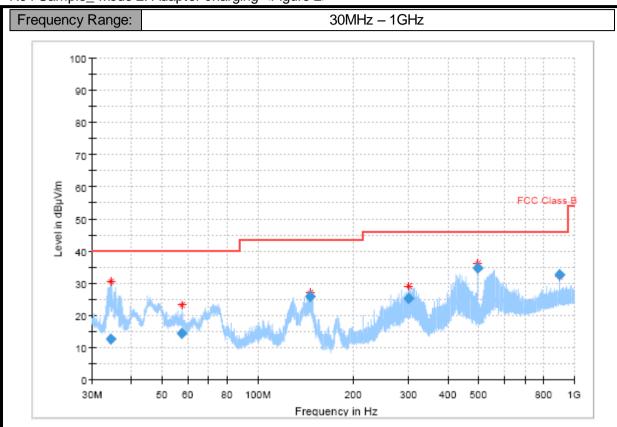
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#### **Test Results**

Sweep the whole frequency band through the range from 30MHz to the 5<sup>th</sup> harmonic of the carrier, the Emissions in the frequency band 18GHz-40GHz is more than 20dB below the limit are not report.





Frequency	QuasiPeak	Limit	Margin	Meas.	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	Time	(kHz)	(cm)		(deg)	(dB)
				(ms)					
34.288293	12.60	40.00	27.40	1000.0	120.000	100.0	٧	231.0	-27.3
57.633408	14.41	40.00	25.59	1000.0	120.000	100.0	٧	296.0	-26.7
146.868592	26.00	43.50	17.50	1000.0	120.000	100.0	٧	-30.0	-30.6
299.868189	25.35	46.00	20.65	1000.0	120.000	100.0	Н	204.0	-25.7
493.991621	34.82	46.00	11.18	1000.0	120.000	180.0	Н	235.0	-21.9
900.004088	32.59	46.00	13.41	1000.0	120.000	100.0	Н	-3.0	-13.9

### Note:

1.Emission level(QP)=Raw value by receiver + Corr(Antenna factor + cable loss - preamplifier gain)

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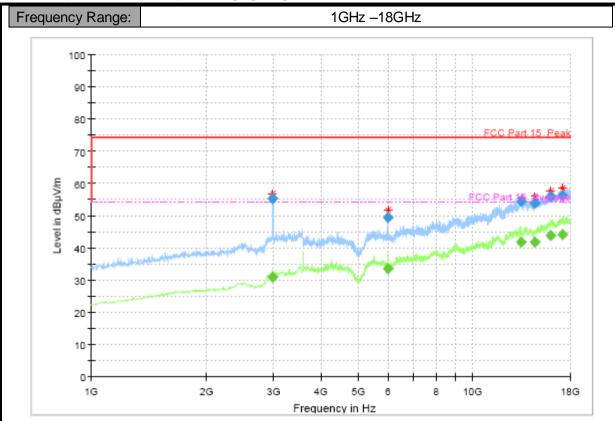
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- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3.Margin=limit value emission level.

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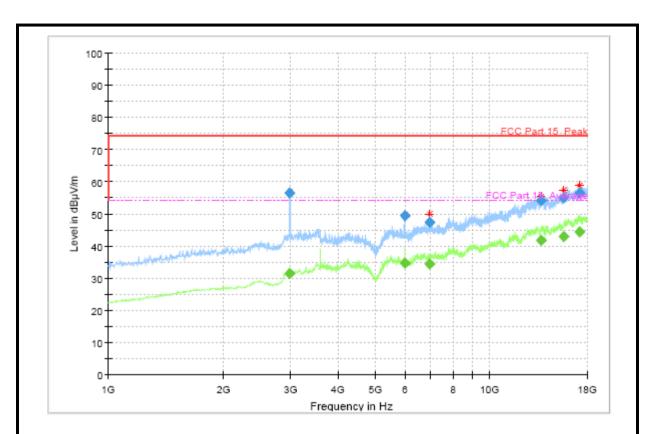


### **Final Result**

Frequency	MaxPeak	Average	Limit	Margin	Meas.	Band	Heigh	Р	Azim	Corr.
(MHz)	(dBuV/m)	(dBuV/m	(dBuV/m)	(dB)	Time	width	t	ol	uth	(dB)
2986.400000	55.21		74.00	18.79	100.0	1000.	100.0	٧	199.0	-1.2
2986.400000		30.93	54.00	23.07	100.0	1000.	100.0	٧	199.0	-1.2
5988.200000	49.50		74.00	24.50	100.0	1000.	100.0	٧	150.0	4.6
5988.200000		33.57	54.00	20.43	100.0	1000.	100.0	٧	150.0	4.6
13352.600000	54.54		74.00	19.46	100.0	1000.	100.0	٧	11.0	18.0
13352.600000		41.87	54.00	12.13	100.0	1000.	100.0	٧	11.0	18.0
14549.800000	53.81		74.00	20.19	100.0	1000.	100.0	٧	0.0	19.2
14549.800000		41.64	54.00	12.36	100.0	1000.	100.0	٧	0.0	19.2
16022.000000	55.92		74.00	18.08	100.0	1000.	200.0	٧	341.0	22.4
16022.000000		43.96	54.00	10.04	100.0	1000.	200.0	٧	341.0	22.4
17198.000000	56.21		74.00	17.79	100.0	1000.	100.0	٧	219.0	24.1
17198.000000		44.21	54.00	9.79	100.0	1000.	100.0	٧	219.0	24.1

- 1.Emission level(peak or average)=Raw value by receiver + Corr(Antenna factor+ cable loss preamplifier gain)
- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3.Margin=limit value emission level.



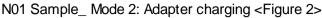


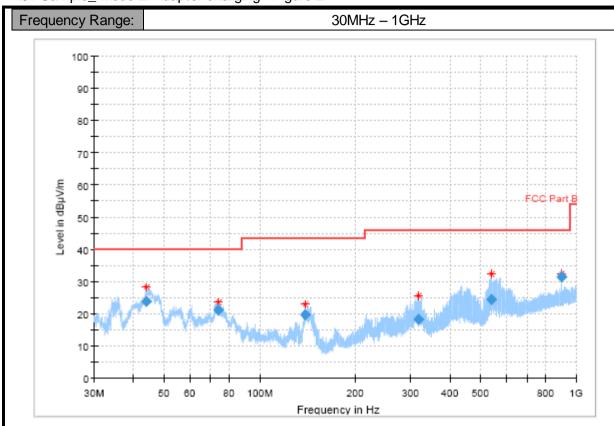
### **Final Result**

Frequency	MaxPeak	Average	Limit	Margin	Meas.	Bandwi	Heigh	Ро	Azimu	Corr.
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	Time	dth	t	1	th	(dB)
2991.600000	56.56		74.00	17.44	100.0	1000.00	200.0	Н	190.0	-1.3
2991.600000		31.43	54.00	22.57	100.0	1000.00	200.0	Н	190.0	-1.3
5999.000000	49.48		74.00	24.52	100.0	1000.00	200.0	Н	138.0	4.6
5999.000000		34.82	54.00	19.18	100.0	1000.00	200.0	Н	138.0	4.6
6969.800000	47.49		74.00	26.51	100.0	1000.00	100.0	Н	62.0	7.1
6969.800000		34.30	54.00	19.70	100.0	1000.00	100.0	Н	62.0	7.1
13589.800000		41.71	54.00	12.29	100.0	1000.00	200.0	Н	96.0	18.3
13589.800000	54.08		74.00	19.92	100.0	1000.00	200.0	Н	96.0	18.3
15599.000000	54.92		74.00	19.08	100.0	1000.00	100.0	Н	176.0	21.3
15599.000000		42.82	54.00	11.18	100.0	1000.00	100.0	Н	176.0	21.3
17160.600000		44.46	54.00	9.54	100.0	1000.00	200.0	Н	274.0	24.1
17160.600000	56.44		74.00	17.56	100.0	1000.00	200.0	Н	274.0	24.1

- 1.Emission level(peak or average)=Raw value by receiver + Corr(Antenna factor+ cable loss preamplifier gain)
- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3. Margin=limit value emission level.







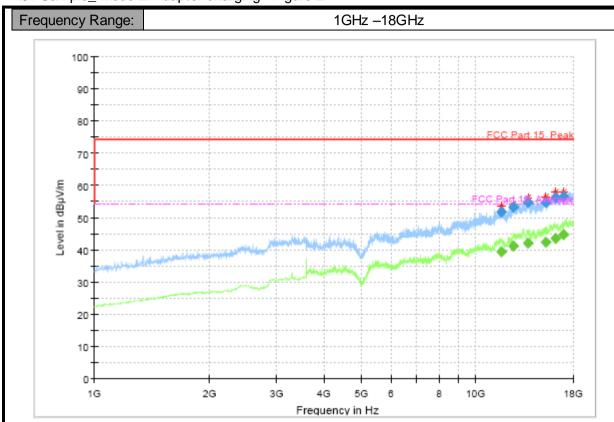
Frequency	QuasiPeak	Limit	Margin	Meas.	Bandw idth	Height	Pol	Azimuth	Corr.
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	Time	(kHz)	(cm)		(deg)	(dB)
				(ms)					
43.897044	23.93	40.00	16.07	1000.0	120.000	99.0	٧	313.0	-25.7
74.231284	21.03	40.00	18.97	1000.0	120.000	99.0	٧	328.0	-30.7
139.416704	19.68	43.50	23.82	1000.0	120.000	99.0	Н	212.0	-31.1
316.846464	18.33	46.00	27.67	1000.0	120.000	99.0	٧	87.0	-25.1
538.486380	24.55	46.00	21.45	1000.0	120.000	99.0	٧	71.0	-20.9
900.007852	31.34	46.00	14.66	1000.0	120.000	201.0	٧	49.0	-14.3

- 1.Emission level(QP)=Raw value by receiver + Corr(Antenna factor + cable loss preamplifier gain)
- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3.Margin=limit value emission level.

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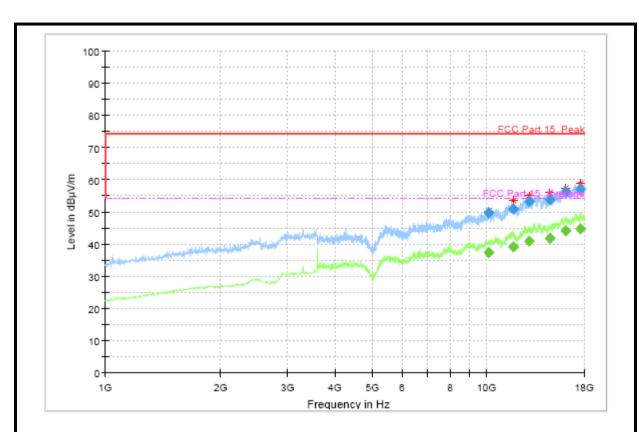


### **Final Result**

Frequency	MaxPeak	Average	Lim it	Margin	Meas.	Band	Heigh	Р	Azim	Corr.
(MHz)	(dBuV/m)	(dBuV/m	(dBuV/m)	(dB)	Time	width	t	ol	uth	(dB)
11632.400000		39.50	54.00	14.50	100.0	1000.	200.0	٧	328.0	15.2
11632.400000	51.82		74.00	22.18	100.0	1000.	200.0	٧	328.0	15.2
12495.600000	53.38		74.00	20.62	100.0	1000.	200.0	٧	359.0	16.5
12495.600000		41.22	54.00	12.78	100.0	1000.	200.0	٧	359.0	16.5
13671.800000	54.82	-	74.00	19.18	100.0	1000.	100.0	٧	0.0	18.7
13671.800000		42.02	54.00	11.98	100.0	1000.	100.0	٧	0.0	18.7
15284.000000		42.49	54.00	11.51	100.0	1000.	200.0	٧	245.0	20.7
15284.000000	54.56	ł	74.00	19.44	100.0	1000.	200.0	>	245.0	20.7
16150.000000	56.03	ł	74.00	17.97	100.0	1000.	200.0	٧	296.0	22.4
16150.000000		43.66	54.00	10.34	100.0	1000.	200.0	٧	296.0	22.4
16965.800000	56.39		74.00	17.61	100.0	1000.	200.0	٧	172.0	23.6
16965.800000		44.62	54.00	9.38	100.0	1000.	200.0	٧	172.0	23.6

- 1.Emission level(peak or average)=Raw value by receiver + Corr(Antenna factor+ cable loss preamplifier gain)
- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3.Margin=limit value emission level.





### **Final Result**

Frequency	MaxPeak	Average	Limit	Margin	Meas.	Bandwi	Heigh	Ро	Azimu	Corr.
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	Time	dth	t	1	th	(dB)
10121.400000	49.63		74.00	24.37	100.0	1000.00	100.0	Н	10121.	11.7
10121.400000		37.43	54.00	16.57	100.0	1000.00	100.0	Н	10121.	11.7
11736.400000	51.01		74.00	22.99	100.0	1000.00	200.0	Н	11736.	15.1
11736.400000		39.16	54.00	14.84	100.0	1000.00	200.0	Н	11736.	15.1
12883.200000	53.32		74.00	20.68	100.0	1000.00	100.0	Н	12883.	17.5
12883.200000		40.99	54.00	13.01	100.0	1000.00	100.0	Н	12883.	17.5
14633.800000	53.89		74.00	20.11	100.0	1000.00	200.0	Н	14633.	19.6
14633.800000		41.70	54.00	12.30	100.0	1000.00	200.0	Н	14633.	19.6
16037.200000	56.14		74.00	17.86	100.0	1000.00	200.0	Н	16037.	22.5
16037.200000		44.11	54.00	9.89	100.0	1000.00	200.0	Н	16037.	22.5
17534.800000	57.02		74.00	16.98	100.0	1000.00	100.0	Н	17534.	24.6
17534.800000		44.72	54.00	9.28	100.0	1000.00	100.0	Н	17534.	24.6

- 1.Emission level(peak or average)=Raw value by receiver + Corr(Antenna factor+ cable loss preamplifier gain)
- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3. Margin=limit value emission level.



#### 8.2 AC Conducted Emission

#### **Method of Measurement**

For equipment 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 with the band 150 kHz to 30MHz shall not exceed the limits. Both lines of the power mains connected to the EUT were checked for maximum conducted interference. Tested in accordance with the procedures of ANSI C63.4-2014, section 7.3

#### **Limit of Conducted Emission**

Frequency Range (MHz)	Conducted Limit (dBuV)						
	Quasi-peak	Average					
0.15-0.5	66 to 56*	56 to 46*					
0.5-5	56	46					
5-30	60	50					
*Decreases with the logarithm of the frequency							

### **Test Condition in Charging Mode**

Voltage (V)	Frequency (Hz)	RBW	Sweep Time (s)
120	60	9 kHz	Auto

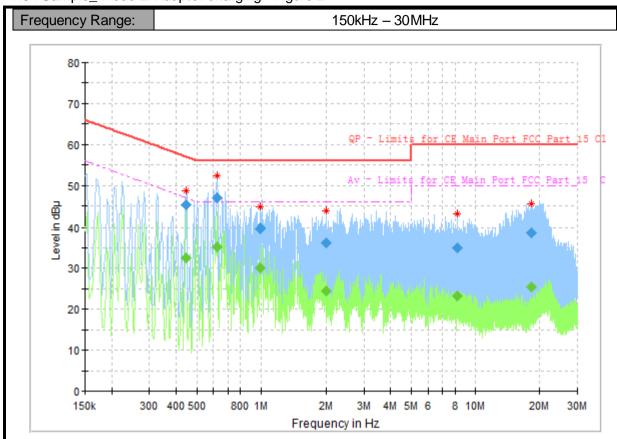
### **Uncertainty Measurement**

The measurement uncertainty is 3.66dB (k=2).

#### **Test Results**







Frequency	QuasiPeak	Average	Lim it	Margin	Meas.	Bandwidth	Line	Filter	Corr.
(MHz)	(dBµV)	(dBµ V)	(dBµ V)	(dB)	Time	(kHz)			(dB)
0.444769		32.44	46.97	14.53	15000.	9.000	L1	ON	9.8
0.444769	45.20		56.97	11.78	15000.	9.000	L1	ON	9.8
0.620138		35.13	46.00	10.87	15000.	9.000	L1	ON	9.8
0.620138	46.96		56.00	9.04	15000.	9.000	L1	ON	9.8
0.993263		30.11	46.00	15.89	15000.	9.000	L1	ON	9.9
0.993263	39.67		56.00	16.33	15000.	9.000	L1	ON	9.9
1.993238		24.35	46.00	21.65	15000.	9.000	N	ON	10.0
1.993238	36.13		56.00	19.87	15000.	9.000	N	ON	10.0
8.179650		23.32	50.00	26.68	15000.	9.000	N	ON	10.7
8.179650	34.87		60.00	25.13	15000.	9.000	N	ON	10.7
18.164475		25.38	50.00	24.62	15000.	9.000	N	ON	13.6
18.164475	38.69		60.00	21.31	15000.	9.000	N	ON	13.6

#### Note:

1.Emission level(quasi-peak or Average peak)=Raw value by receiver + Corr(Insertion loss+ cable loss)

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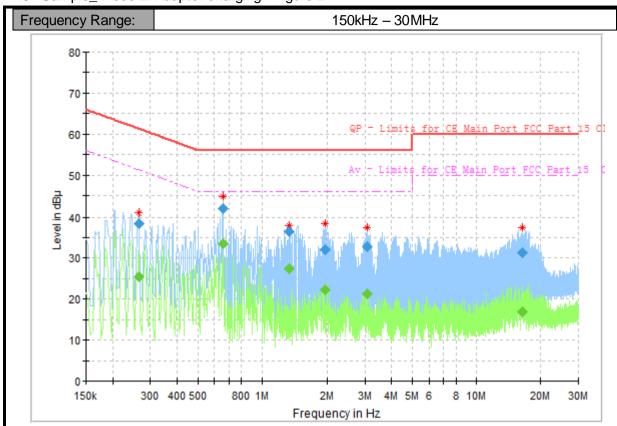
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- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3.Margin=limit value emission level.
- 4.L1 and N line is all have been tested, the result of them is synthesized in the above data diagram.







Frequency	QuasiPeak	Average	Limit	Margin	Meas.	Bandw idth	Line	Filter	Corr.
(MHz)	(dBµV)	(dBµ V)	(dBµV)	(dB)	Time	(kHz)			(dB)
0.265669		25.50	51.25	25.75	15000.	9.000	L1	ON	9.8
0.265669	38.52		61.25	22.73	15000.	9.000	L1	ON	9.8
0.657450		33.45	46.00	12.55	15000.	9.000	L1	ON	9.8
0.657450	41.95		56.00	14.05	15000.	9.000	L1	ON	9.8
1.347731		27.47	46.00	18.53	15000.	9.000	L1	ON	9.9
1.347731	36.37		56.00	19.63	15000.	9.000	L1	ON	9.9
1.963388		22.32	46.00	23.68	15000.	9.000	L1	ON	10.0
1.963388	32.01		56.00	23.99	15000.	9.000	L1	ON	10.0
3.090225		21.25	46.00	24.75	15000.	9.000	L1	ON	10.1
3.090225	32.69		56.00	23.31	15000.	9.000	L1	ON	10.1
16.373475		16.86	50.00	33.14	15000.	9.000	N	ON	13.1
16.373475	31.26		60.00	28.74	15000.	9.000	N	ON	13.1

#### Note:

- 1.Emission level(quasi-peak or Average peak)=Raw value by receiver + Corr(Insertion loss+ cable loss)
- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3. Margin=limit value emission level.
- 4.L1 and N line is all have been tested, the result of them is synthesized in the above data diagram.

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