



TEST REPORT

Report Number: C21T00125-EMC01-V00

Applicant	Shanghai Sunmi Technology Co.,Ltd.
Product Name	Wireless data POS System
Model Name	T5930
Brand Name	SUNMI
FCC ID	2AH25T 5930

Industrial Internet Innovation Center (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in FCC Part 15, Subpart B, ANSI C63.4-2014.

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李柳凯

Issue Date

2022-02-18

Industrial Internet Innovation Center (Shanghai) Co., Ltd.

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Test Laboratory:

Industrial Internet Innovation Center (Shanghai) Co., Ltd.

Add: Building 4, No. 766 Jingang Rd, Pudong, Shanghai, China

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Revision Version

Report Number	Revision	Date	Memo
C21T00125-EMC01-V00	00	2022-02-18	Initial creation of test report

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1. Test Laboratory

1.1. Testing Location

Primary Lab:

Company Name	Industrial Internet Innovation Center (Shanghai) Co., Ltd.
Address	Building 4, No. 766 Jingang Rd, Pudong, Shanghai, China
FCC Registration No.	958356
FCC Designation No.	CN1177

Subcontracting Lab #1:

Company Name	N/A
Address	N/A

1.2. Testing Environment

Normal Temperature	15°C~35°C
Relative Humidity	30%RH~60%RH
Supply Voltage	120V/60Hz

1.3. Project Information

Project Leader	Wang Wenwen
Testing Start Date	2021-10-25
Testing End Date	2022-02-17

2. Client Information

2.1. Applicant Information

Company Name	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Telephone	+86 18501703215

2.2. Manufacturer Information

Company Name	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Telephone	+86 18501703215

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

3.1. About EUT

Product Name	Wireless data POS System
Model name	T5930
Supported Radio Technology and Bands	GSM850/GSM900/GSM1800/GSM1900 WCDMA Band I /Band II /BandIV/Band V LTE 2/3/4/7/12/17/28 BT4.0 BLE WLAN 802.11b,g,n WLAN 802.11a,n GPS
Hardware Version	V3
Software Version	ZAP1522_769_DEV_dailybuild_20181205071714_userdebug_DCC

Note: Photographs of EUT are shown in ANNEX B of this test report.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of Receipt
N01 (Main Supply)	N/A	V3	ZAP1522_769_DEV_dailybuild_20181205071714_userdebug_DCC	2021/10/21
N08 (Secondary Supply)	N/A	V3	ZAP1522_769_DEV_dailybuild_20181205071714_userdebug_DCC	2022/01/12

*EUT ID: is internally used to identify the test sample in the lab.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Model	SN/Remark
CA01	Adapter	TPA-23A050200UU01	N/A
UA01	USB Cable	T05000189	N/A
UA08	USB Cable	T05000156	N/A
AE1	Notebook PC	DELL Latitude E6510	N/A
AE2	Desktop PC	OptiPlex 790 DT	X8RP1 A01 APCC
AE3	LAN Cable	N/A	N/A
AE4	VGA Cable	N/A	N/A
AE5	RS232 Cable	N/A	N/A
AE6	Keyboard	KB212-B	CN-0Y88XT-65890-12I-005Q-A00

AE7	Mouse	MS111-P	CN-011D3V-71581-19J-1A64
AE8	Monitor	Dell E1709Wc	N/A

*AE ID: is internally used to identify the test sample in the lab.

*The AE is 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	2020/10/1
ANSI C63.4	Method of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

5. Test Summary

5.1. Summary of Test Results

Items	Test List	Standard	Verdict
1	Radiated Emission	15.109(a)	Pass
2	AC Conducted Emission	15.107(a)	Pass

5.2. Statements

The T5930, manufactured by Shanghai Sunmi Technology Co.,Ltd. is a variant product for testing.

This project with two sets of configured sample N01 (Main Supply) and N08 (Secondary Supply) is a variant project based on the original report C21T00009-EMC01-V00, it changes the Power Amplifier based on the original report, the difference between N01 (Main Supply) and N08 (Secondary Supply) is battery. We separately tested the worst modes in the original report and recorded them in the report.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. only performed test cases which identified with Pass/Fail/Inc result in section 5.1.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. 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.

5.3. Decision of final test mode

The EUT was tested together with the above additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The test configuration modes are as the following:

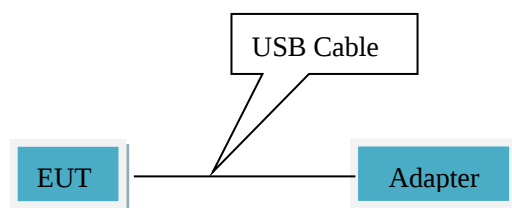
N01(Main Supply):

Test Item	Test setup and operating modes
Radiated emission	Mode 1: Adapter charging+ G850 receiver mode + Front Camera+ CA01+UA01 Mode 2: DATA LINK mode (PC to EUT) +UA01 Mode 3: DATA LINK mode (EUT to PC) +UA01 Mode 4: DATA LINK mode (PC to EUT) +UA08 Mode 5: DATA LINK mode (EUT to PC) +UA08
AC Conducted Emission	Mode 1: Adapter charging+ G850 receiver mode + Front Camera+ CA01+UA01 Mode 2: DATA LINK mode (PC to EUT) +UA01 Mode 3: DATA LINK mode (EUT to PC) +UA01 Mode 4: DATA LINK mode (PC to EUT) +UA08 Mode 5: DATA LINK mode (EUT to PC) +UA08
Remark: 1. All test modes are performed, only the worst cases test data are recorded in this report. 2. After laboratory verification, GSM850 is the worst mode among all receiving modes of 2G/3G/4G and is recorded in the report. 3. Data Link with PC means data application transferred mode between EUT and PC.	

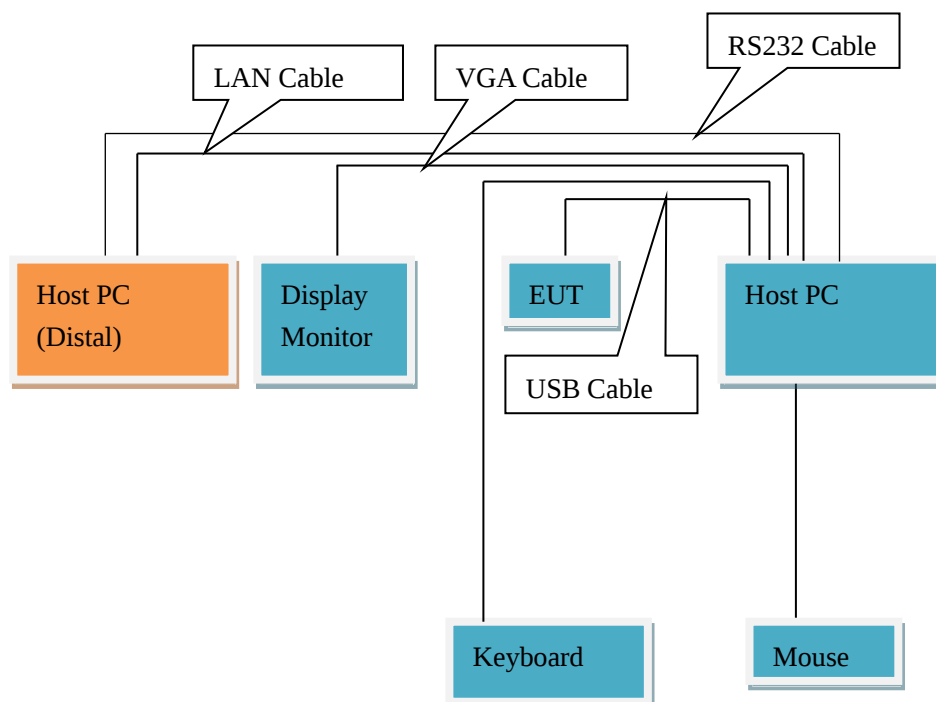
N08 (Secondary Supply):

Test Item	Test setup and operating modes
Radiated emission	Mode 3: DATA LINK mode (EUT to PC) +UA01
AC Conducted Emission	Mode 1: Adapter charging+ G850 receiver mode + Front Camera+ CA01+UA01
Remark: 1. All test modes are performed, only the worst cases test data are recorded in this report. 2. Data Link with PC means data application transferred mode between EUT and PC.	

5.4. EUT Connection Diagram of Test System



<Figure 1> Mode 1



<Figure 2> Mode 2-5

6. Measurement Results

6.1. Radiated Emission

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.
- 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

Table 1:

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

Table 2:

Frequency Range (MHz)	Peak (dB μ V/m)	Average (dB μ V/m)
Above 1000	74	54

Table 3:

Test conditions

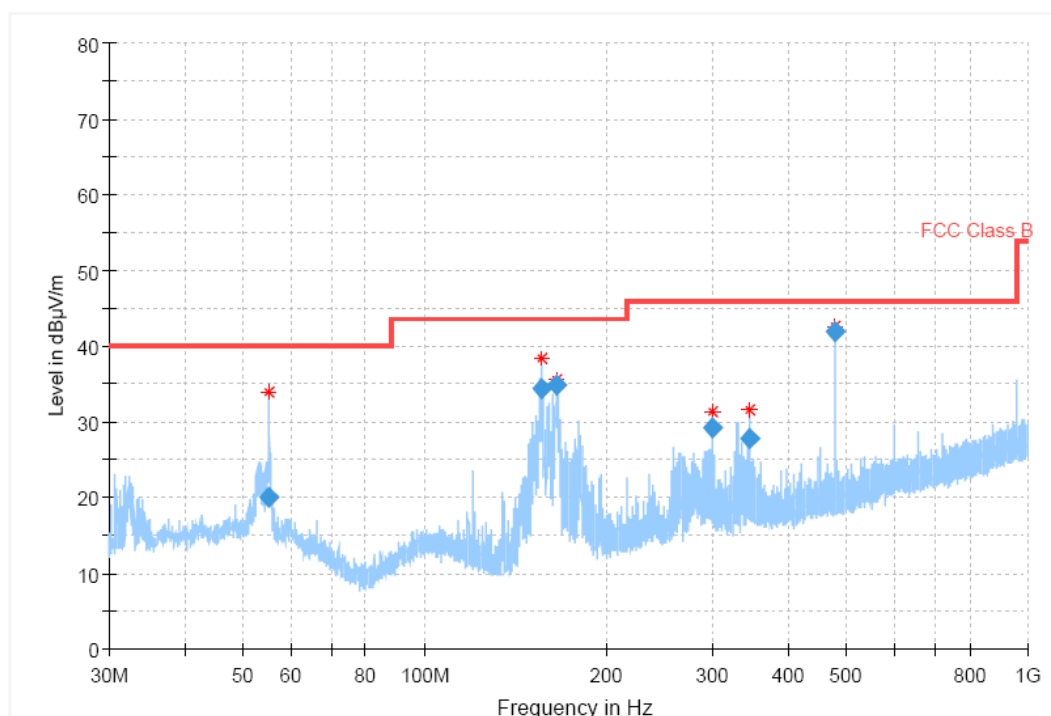
Frequency Range (MHz)	RBW/VBW	Sweep Time (s)
30-1000	120kHz/300kHz	Auto
1000-18000	1MHz/3MHz	Auto

Test Results

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

N01(Main Supply):

Mode 3: DATA LINK mode (EUT to PC) +UA01 (30M-1GHz)



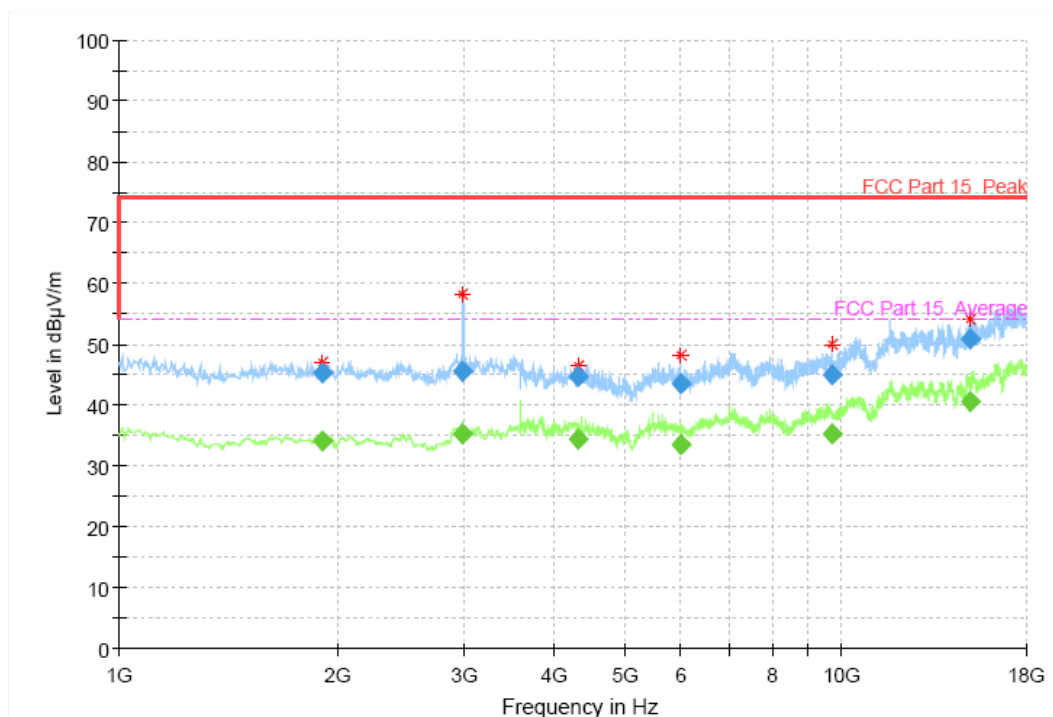
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
55.140000	19.89	40.00	20.11	1000.0	120.000	103.0	H	272.0	-12.2
156.602000	34.32	43.50	9.18	1000.0	120.000	100.0	H	299.0	-16.6
164.974667	34.86	43.50	8.64	1000.0	120.000	103.0	H	312.0	-16.0
299.078000	29.18	46.00	16.82	1000.0	120.000	109.0	V	169.0	-11.1
344.991333	27.73	46.00	18.27	1000.0	120.000	207.0	V	181.0	-9.7
479.983000	41.95	46.00	4.05	1000.0	120.000	100.0	V	289.0	-7.1

Note:

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.

Mode 3: DATA LINK mode (EUT to PC) +UA01 (1GHz-18GHz)

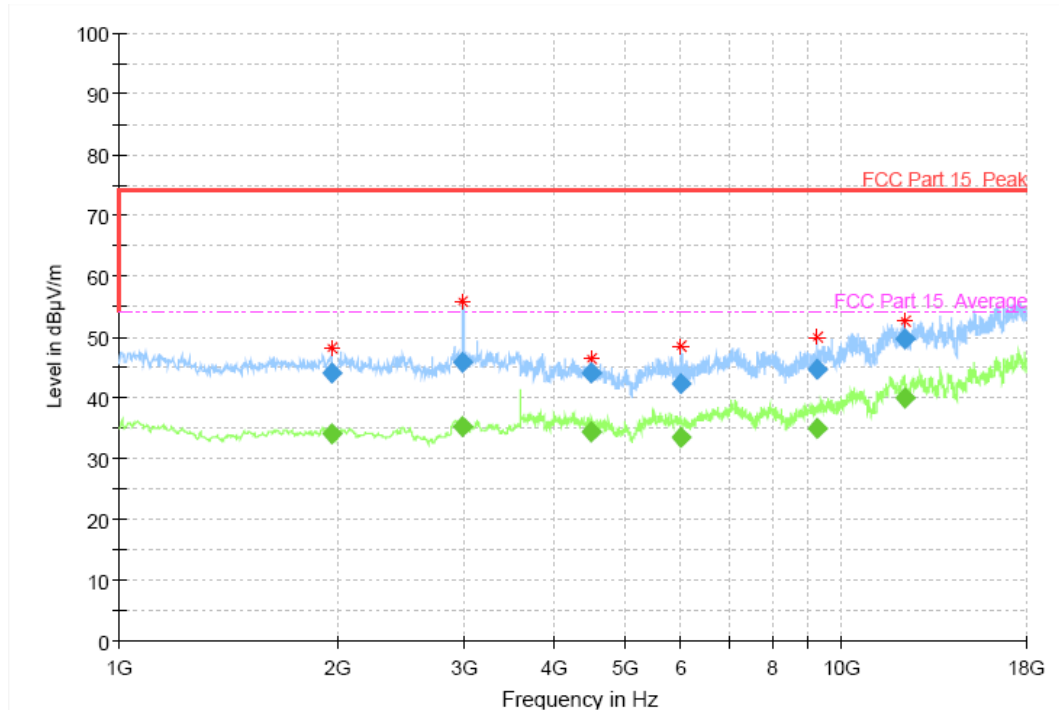


Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1914.600000	---	34.26	54.00	19.74	1.0	1000.000	200.0	H	0.0	2.9
1914.600000	45.35	---	74.00	28.65	1.0	1000.000	200.0	H	0.0	2.9
2985.000000	45.65	---	74.00	28.35	1.0	1000.000	200.0	H	91.0	1.8
2985.000000	---	35.30	54.00	18.70	1.0	1000.000	200.0	H	91.0	1.8
4324.800000	---	34.45	54.00	19.55	1.0	1000.000	100.0	H	70.0	1.2
4324.800000	44.63	---	74.00	29.37	1.0	1000.000	100.0	H	70.0	1.2
5993.800000	43.53	---	74.00	30.47	1.0	1000.000	100.0	H	113.0	1.8
5993.800000	---	33.53	54.00	20.47	1.0	1000.000	100.0	H	113.0	1.8
9693.800000	---	35.29	54.00	18.71	1.0	1000.000	200.0	H	33.0	5.6
9693.800000	45.11	---	74.00	28.89	1.0	1000.000	200.0	H	33.0	5.6
15103.000000	---	40.68	54.00	13.32	1.0	1000.000	200.0	H	232.0	13.6
15103.000000	50.98	---	74.00	23.02	1.0	1000.000	200.0	H	232.0	2.9

Note:

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 1

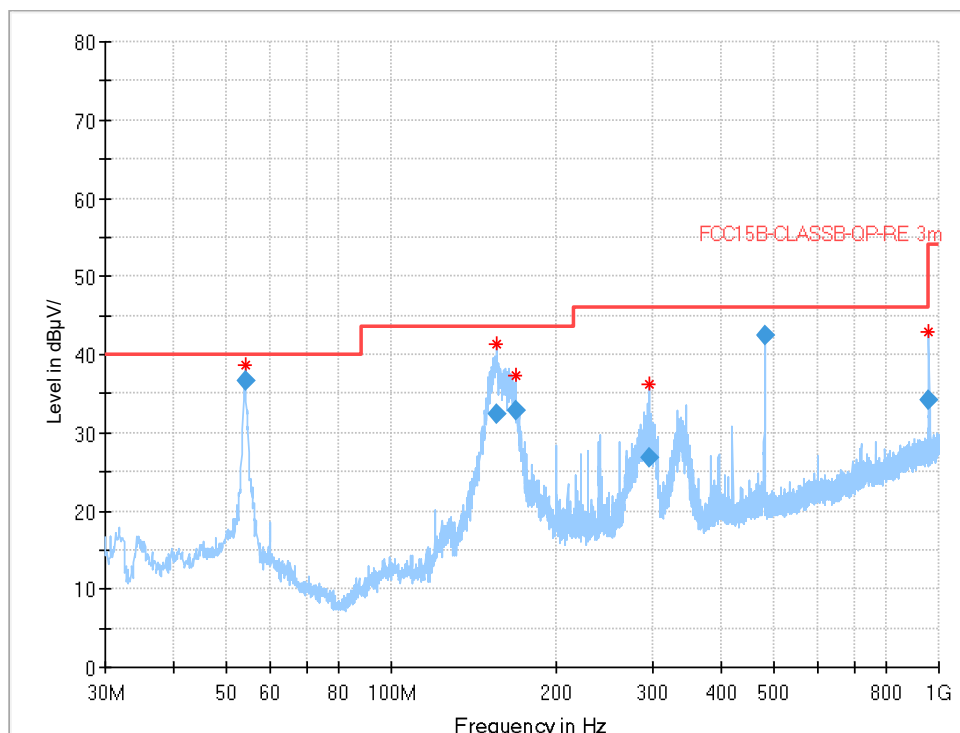
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1968.000000	44.22	---	74.00	29.78	1.0	1000.000	100.0	V	4.0	3.0
1968.000000	---	34.21	54.00	19.79	1.0	1000.000	100.0	V	4.0	3.0
2989.600000	---	35.39	54.00	18.61	1.0	1000.000	200.0	V	110.0	1.9
2989.600000	45.79	---	74.00	28.21	1.0	1000.000	200.0	V	110.0	1.9
4512.800000	---	34.28	54.00	19.72	1.0	1000.000	100.0	V	0.0	1.3
4512.800000	44.23	---	74.00	29.77	1.0	1000.000	100.0	V	0.0	1.3
5997.200000	42.41	---	74.00	31.59	1.0	1000.000	200.0	V	96.0	1.8
5997.200000	---	33.63	54.00	20.37	1.0	1000.000	200.0	V	96.0	1.8
9265.800000	44.59	---	74.00	29.41	1.0	1000.000	100.0	V	286.0	5.1
9265.800000	---	35.12	54.00	18.88	1.0	1000.000	100.0	V	286.0	5.1
12216.000000	49.79	---	74.00	24.21	1.0	1000.000	100.0	V	210.0	10.7
12216.000000	---	40.11	54.00	13.89	1.0	1000.000	100.0	V	210.0	3.0

Note:

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.

N08(Secondary Supply):

Mode 3: DATA LINK mode (EUT to PC) +UA01 (30M-1GHz)



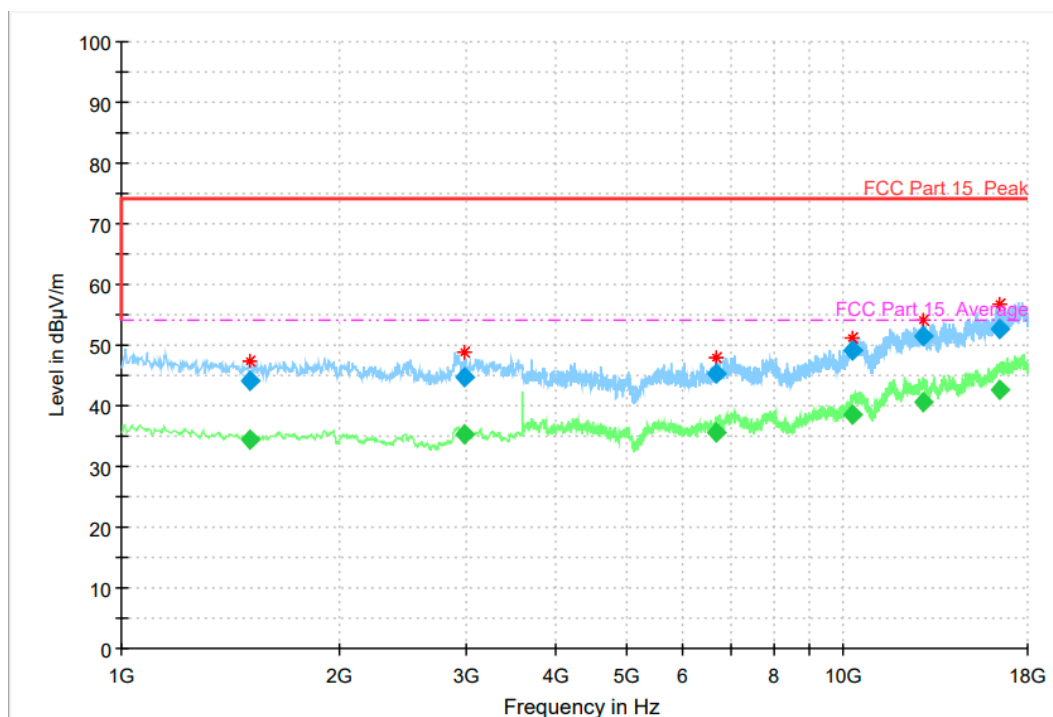
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
54.021680	36.75	40.00	3.25	1000.0	120.000	100.0	V	254.0	-12.1
155.805680	32.34	43.50	11.16	1000.0	120.000	100.0	V	0.0	-16.0
168.793120	32.91	43.50	10.59	1000.0	120.000	200.0	H	21.0	-15.4
295.644160	26.71	46.00	19.29	1000.0	120.000	100.0	H	335.0	-10.3
479.968600	42.44	46.00	3.56	1000.0	120.000	200.0	H	159.0	-5.7
959.983680	34.13	46.00	11.87	1000.0	120.000	100.0	H	265.0	2.2

Note:

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.

Mode 3: DATA LINK mode (EUT to PC) +UA01 (1GHz-18GHz)

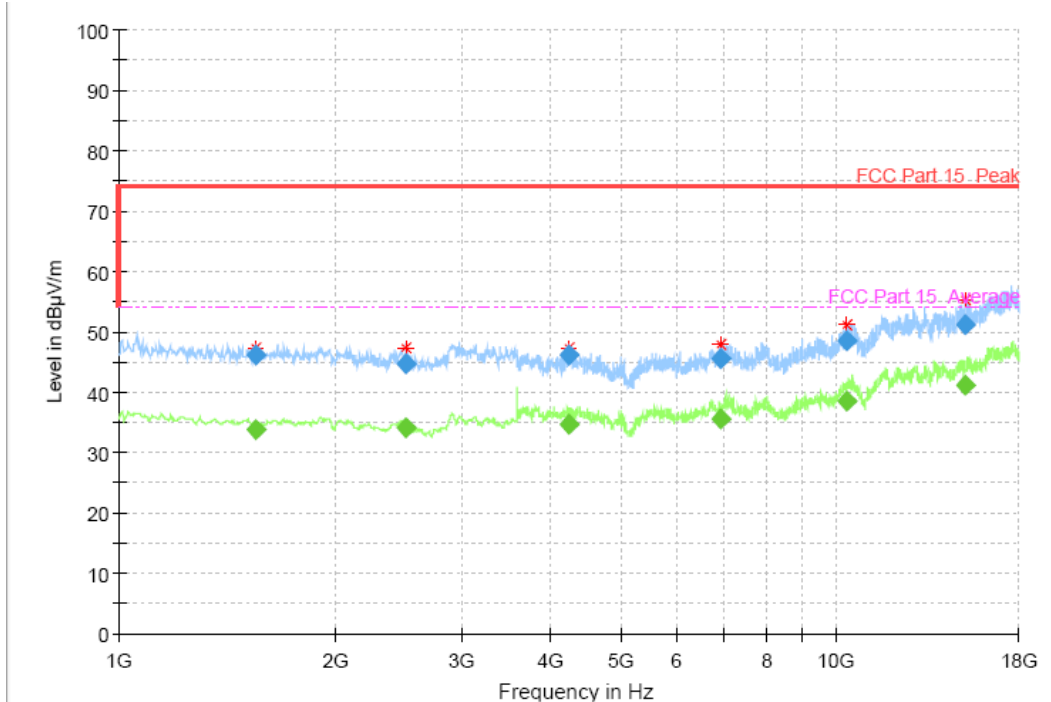


Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1510.600000	---	34.54	54.00	19.46	1.0	1000.000	100.0	H	175.0	2.1
1510.600000	44.13	---	74.00	29.87	1.0	1000.000	100.0	H	175.0	2.1
2992.200000	44.69	---	74.00	29.31	1.0	1000.000	100.0	H	35.0	1.8
2992.200000	---	35.23	54.00	18.77	1.0	1000.000	100.0	H	35.0	1.8
6670.200000	---	35.57	54.00	18.43	1.0	1000.000	100.0	H	93.0	3.8
6670.200000	45.39	---	74.00	28.61	1.0	1000.000	100.0	H	93.0	3.8
10291.400000	---	38.47	54.00	15.53	1.0	1000.000	100.0	H	151.0	7.6
10291.400000	49.14	---	74.00	24.86	1.0	1000.000	100.0	H	151.0	7.6
12865.000000	51.39	---	74.00	22.61	1.0	1000.000	100.0	H	349.0	11.2
12865.000000	---	40.59	54.00	13.41	1.0	1000.000	100.0	H	349.0	11.2
16508.200000	---	42.54	54.00	11.46	1.0	1000.000	100.0	H	69.0	16.8
16508.200000	52.53	---	74.00	21.47	1.0	1000.000	100.0	H	69.0	16.8

Note:

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 1

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1551.200000	46.16	---	74.00	27.84	1.0	1000.000	100.0	V	228.0	1.3
1551.200000	---	33.92	54.00	20.08	1.0	1000.000	100.0	V	228.0	1.3
2520.800000	44.61	---	74.00	29.39	1.0	1000.000	100.0	V	348.0	1.6
2520.800000	---	34.21	54.00	19.79	1.0	1000.000	100.0	V	348.0	1.6
4237.600000	46.10	---	74.00	27.90	1.0	1000.000	100.0	V	0.0	1.3
4237.600000	---	34.58	54.00	19.42	1.0	1000.000	100.0	V	0.0	1.3
6889.400000	---	35.50	54.00	18.50	1.0	1000.000	100.0	V	305.0	4.0
6889.400000	45.61	---	74.00	28.39	1.0	1000.000	100.0	V	305.0	4.0
10366.000000	---	38.61	54.00	15.39	1.0	1000.000	100.0	V	28.0	7.8
10366.000000	48.54	---	74.00	25.46	1.0	1000.000	100.0	V	28.0	7.8
15188.400000	51.23	---	74.00	22.77	1.0	1000.000	100.0	V	322.0	13.9
15188.400000	---	41.29	54.00	12.71	1.0	1000.000	100.0	V	322.0	13.9

Note:

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.

6.2. 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 AC 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

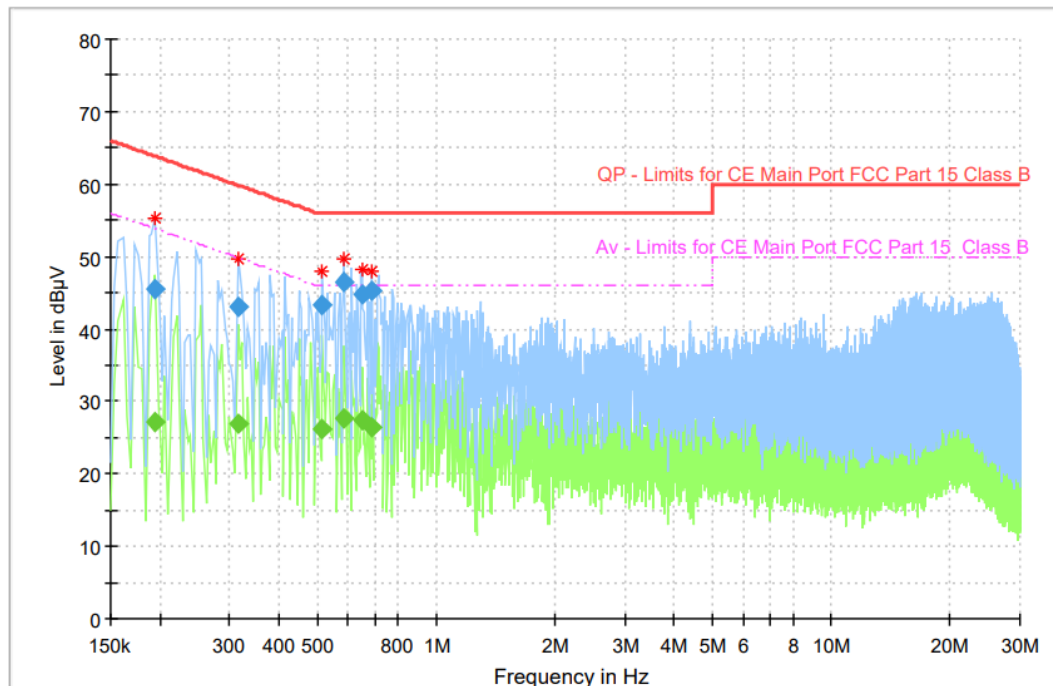
Test Condition in Charging Mode

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

Test Results

N01(Main Supply):

Mode 1: Adapter charging+ G850 receiver mode + Front Camera+ CA01+UA01



Final Result 1

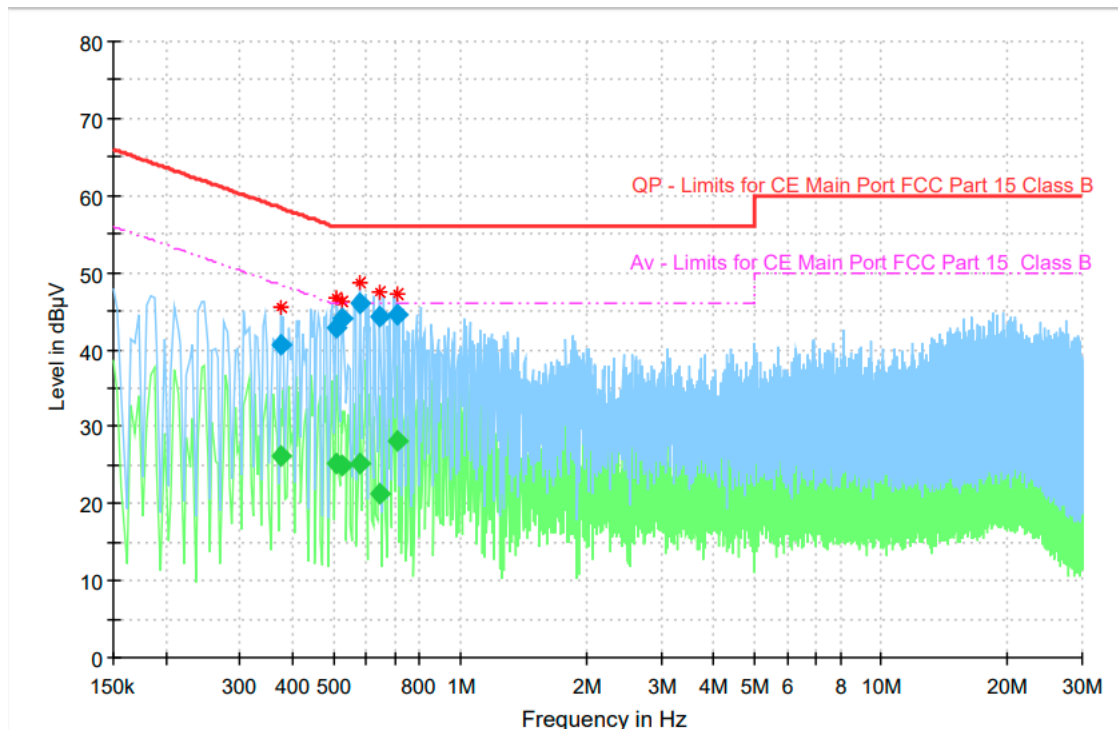
Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.194775	45.56	---	63.83	18.27	15000.0	9.000	N	ON	9.6
0.194775	---	27.12	53.83	26.71	15000.0	9.000	N	ON	9.6
0.314175	42.96	---	59.86	16.90	15000.0	9.000	N	ON	9.6
0.314175	---	26.93	49.86	22.93	15000.0	9.000	N	ON	9.6
0.515663	---	26.20	46.00	19.80	15000.0	9.000	N	ON	9.6
0.515663	43.42	---	56.00	12.59	15000.0	9.000	N	ON	9.6
0.586556	---	27.61	46.00	18.39	15000.0	9.000	L1	ON	9.6
0.586556	46.53	---	56.00	9.47	15000.0	9.000	L1	ON	9.6
0.649988	---	27.40	46.00	18.60	15000.0	9.000	N	ON	9.6
0.649988	44.84	---	56.00	11.16	15000.0	9.000	N	ON	9.6
0.687300	---	26.48	46.00	19.52	15000.0	9.000	L1	ON	9.6
0.687300	45.31	---	56.00	10.69	15000.0	9.000	L1	ON	9.6

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.

N08 (Secondary Supply):

Mode 1: Adapter charging+ G850 receiver mode + Front Camera+ CA01+UA01



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.373875	---	26.12	48.41	22.29	15000.0	9.000	N	ON	9.6
0.373875	40.59	---	58.41	17.82	15000.0	9.000	N	ON	9.6
0.508200	42.89	---	56.00	13.11	15000.0	9.000	L1	ON	9.6
0.508200	---	25.31	46.00	20.69	15000.0	9.000	L1	ON	9.6
0.523125	---	24.94	46.00	21.06	15000.0	9.000	L1	ON	9.6
0.523125	44.13	---	56.00	11.87	15000.0	9.000	L1	ON	9.6
0.579094	---	25.12	46.00	20.88	15000.0	9.000	N	ON	9.6
0.579094	45.89	---	56.00	10.11	15000.0	9.000	N	ON	9.6
0.642525	44.38	---	56.00	11.62	15000.0	9.000	L1	ON	9.6
0.642525	---	21.18	46.00	24.82	15000.0	9.000	L1	ON	9.6
0.705956	---	28.19	46.00	17.81	15000.0	9.000	N	ON	9.6
0.705956	44.43	---	56.00	11.57	15000.0	9.000	N	ON	9.6

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.

7. Test Equipment List

7.1. Radiated Emission Equipment list

Item	Equipment Name	Type	Serial Number	Manufacturer	Cal. Date	Cal. interval
1	Test Receiver	ESU40	100307	R&S	2021-03-03	1 year
2	Universal Radio Communication Tester	CMU200	123102	R&S	2021-05-10	1 year
3	Universal Radio Communication Tester	CMW500	104178	R&S	2021-05-10	1 year
4	Trilog Antenna	VULB9163	VULB9163-515	Schwarzbeck	2021-02-03	2 years
5	Double Ridged Guide Antenna	ETS-3117	00135890	ETS	2020-02-28	2 years
6	EMI Test Software	EMC32 V9.15	N/A	R&S	N/A	N/A
7	Signal Generator	SMBV100A	257984	R&S	2021-03-03	1 year

7.2. AC Conducted Emission Equipment list

Item	Equipment Name	Type	Serial Number	Manufacturer	Cal. Date	Cal. interval
1	Test Receiver	ESCI	101235	R&S	2021-05-10	1 year
2	Universal Radio Communication Tester	CMU200	123102	R&S	2021-05-10	1 year
3	Universal Radio Communication Tester	CMW500	104178	R&S	2021-05-10	1 year
4	2-Line V-Network	ENV216	101380	R&S	2021-03-20	1 year
5	EMI Test Software	EMC32 V10.35.02	N/A	R&S	N/A	N/A
6	Signal Generator	SMBV100A	257984	R&S	2021-03-03	1 year

Annex A: Measurement Uncertain

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Case	Uncertainty
Radiated Emission 30MHz-1000MHz	4.96 dB
Radiated Emission 1000MHz-18000MHz	5.18 dB
AC Conducted Emission	3.66 dB

Annex B: Accreditation Certificate



Accredited Laboratory

A2LA has accredited

INDUSTRIAL INTERNET INNOVATION CENTER (SHANGHAI) CO., LTD.

Shanghai, People's Republic of China

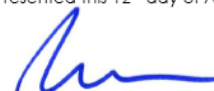
for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 12th day of April 2021.



Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3682.01
Valid to February 28, 2023

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

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