



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 1 of 29

TEST REPORT

Application No.: SUCR2505000434IT
Applicant: Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant: Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Manufacturer: Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer: Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
EUT Description: Wireless Data Terminal
Model No.: TF41A
Trade Mark: SUNMI
FCC ID: 2AH25M3WH
Standards: FCC 47 CFR Part 15, Subpart C 15.225
Date of Receipt: May 15, 2025
Date of Test: June 17, 2025 to June 20, 2025
Date of Issue: June 23, 2025

Test Result :	PASS *
----------------------	---------------

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone:(86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, RunSheng Road, Suzhou Industrial Park,
Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

t (86-512) 6229 2980
www.sgsgroup.com.cn



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408
Rev.: 01
Page: 2 of 29

Version

Revision Record			
Version	Description	Date	Remark
01	Original	June 23, 2025	/

Authorized for issue by:				
Tested By				
		Hayley Zhang / Project Manager		
Approved By				
		Cloud Peng/Technical Manager		



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 3 of 29

Contents

Version	2
1 Test Summary	4
2 General Information	5
2.1 Details of Client	5
2.2 Test Location	5
2.3 Test Facility	5
2.4 General Description of EUT	5
2.5 Test Environment	6
2.6 Description of Support Units	6
3 Equipment List	7
4 Measurement Uncertainty (95% confidence levels, k=2)	9
5 Test results and Measurement Data	10
5.1 Antenna Requirement	10
5.2 Worst-case configuration and mode	10
5.3 AC Power Line Conducted Emissions	11
5.4 20dB Spectrum Bandwidth & 99% Occupied Bandwidth	14
5.5 Frequency Stability	15
5.6 Field Strength of Fundamental Emissions	16
5.7 Radiated Spurious Emissions	18
6 Photographs - Setup Photos	20
7 Appendix	21



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 4 of 29

1 Test Summary

Test Item	FCC Rules No.	Test Method	Test Result	Result
Antenna Requirement	15.203	--	Clause 3.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 3.3	PASS
20dB Spectrum Bandwidth & 99% Occupied Bandwidth	15.215(c)	ANSI C63.10 2013 Section 6.9.3	Clause 3.4	PASS
Frequency Stability	15.225(e)	ANSI C63.10 2013 Section 6.8	Clause 3.5	PASS
Field Strength of Fundamental Emissions	15.225(a)(b)(c)	ANSI C63.10 2013 Section 6.4.7	Clause 3.6	PASS
Radiated Spurious Emissions	15.225(d)/15.209	ANSI C63.10 2013 Section 6.4/6.5	Clause 3.7	PASS



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 5 of 29

2 General Information

2.1 Details of Client

Applicant:	Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Manufacturer:	Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China

2.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	King-p Li

2.3 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

2.4 General Description of EUT

Hardware Version:	V1.3
Software Version:	T602AA_EVT_14.0_SUNMI_202503131820.00-00
Power Supply:	3.87V from battery
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	FPC Antenna
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408
Rev.: 01
Page: 6 of 29

2.5 Test Environment

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.87
Remark: The extreme Voltage and extreme Temperature are refer to the test data of Frequency Stability.		

2.6 Description of Support Units

The EUT has been tested as an independent unit.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 7 of 29

3 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	2022/11/09	2025/11/08
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2025/02/13	2026/02/12
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2025/01/20	2026/01/19
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-02	2025/05/07	2026/05/06
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2025/01/21	2026/01/20
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2025/01/15	2026/01/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2024/11/19	2025/11/18
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2024/11/19	2025/11/18
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2025/01/15	2026/01/14
Router	ASUS	GT-AXE11000(FCC ID MSQ-RTAXJF00)	SUWI-03-14-02	NCR	NCR
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2024/11/19	2025/11/18

CE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2025/01/15	2026/01/14
Temperature and humidity meter*	MingGao	TH101B	SUWI-01-01-06	2025/02/13	2026/02/12
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2025/05/08	2026/05/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2025/05/08	2026/05/07
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 8 of 29

9*6*6 Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2023/06/03	2026/06/02
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2025/02/13	2026/02/12
Signal Analyzer	ROHDE &SCHWARZ	FSW43	SUWI-01-02-04	2025/01/20	2026/01/19
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2024/11/21	2025/11/20
Test receiver	ROHDE &SCHWARZ	ESR7	SUWI-01-10-01	2025/01/15	2026/01/14
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2023/11/25	2025/11/24
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2025/05/07	2027/05/06
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2025/05/07	2027/05/06
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/06/03	2026/06/02
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2025/05/07	2027/05/06
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2025/01/16	2026/01/15
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2025/01/16	2026/01/15
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

Remark: NCR=No Calibration Requirement.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 9 of 29

4 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 1.0 \%$
2	Occupied Bandwidth	$\pm 1.0 \%$
3	Conduction Emission	$\pm 2.90\text{dB}$ (150kHz to 30MHz)
4	Radiated Emission	$\pm 3.13\text{dB}$ (9k -30MHz)
		$\pm 4.80\text{dB}$ (30M -1GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 10 of 29

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
The antenna of the EUT are permanently attached.	

5.2 Worst-case configuration and mode

The fundamental of the EUT was investigated under three orthogonal orientations X, Y, and Z. The X orientation was determined to be the worst-case orientation.
Although these tests were performed ther than open area test site, adequate comparison measurements were confirmed against 30m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site prduces results that correlate with the ones of tests made in an ope field based on KDB 414788.

5.3 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range(MHz)	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 Procedure:	<div>1) The mains terminal disturbance voltage test was conducted in a shielded room.</div> <div>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</div> <div>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</div> <div>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</div> <div>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</div>		
Test Setup:	<div><div>Shielding Room</div><div><div><div><div><div>AC Mains</div><div>LISN1</div></div><div><div>80cm</div><div>EUT</div><div>AE</div></div><div><div>80cm</div><div>LISN2</div><div>AC Mains</div></div><div><div>Test Receiver</div></div></div></div><div>Ground Reference Plane</div></div></div>		
Instruments Used:	Refer to section 3 for details.		
Test Results:	Pass		



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

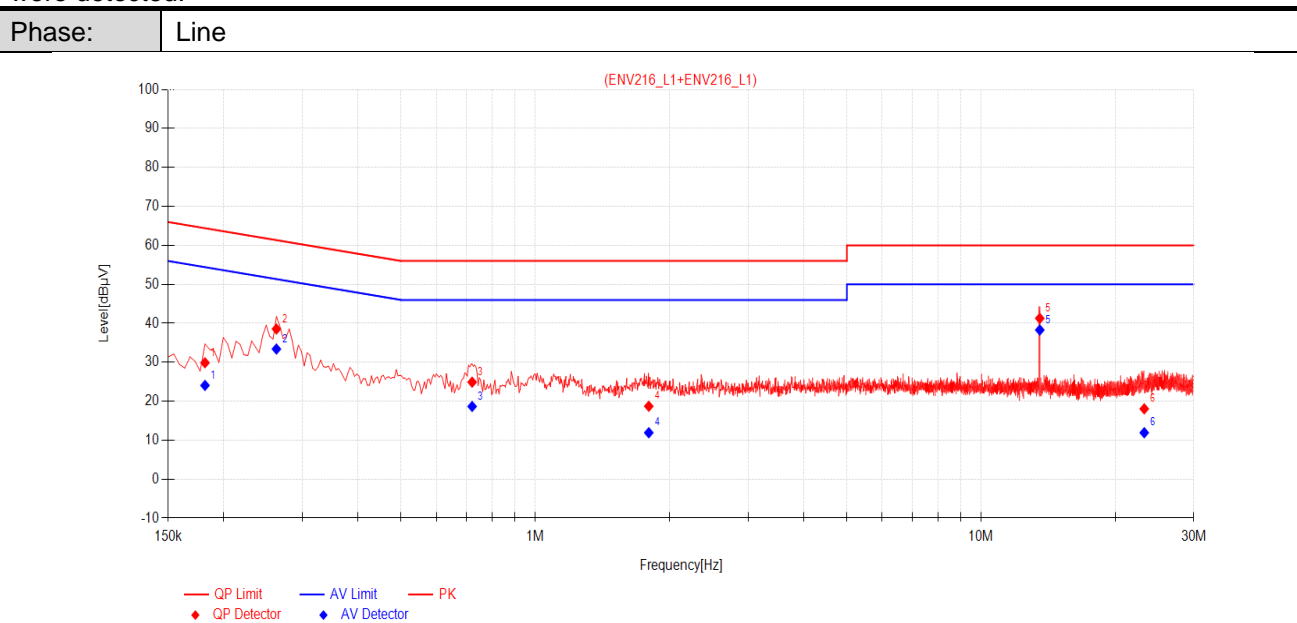
Rev.: 01

Page: 12 of 29

Measurement Data

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 emission were detected.



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1815	10.08	19.79	29.87	64.42	34.55	13.98	24.06	54.42	30.36	PASS
2	0.2625	10.07	28.47	38.54	61.35	22.81	23.33	33.40	51.35	17.95	PASS
3	0.7215	10.06	14.83	24.89	56.00	31.11	8.60	18.66	46.00	27.34	PASS
4	1.7970	9.85	8.86	18.71	56.00	37.29	2.07	11.92	46.00	34.08	PASS
5	13.5465	9.81	31.47	41.28	60.00	18.72	28.47	38.28	50.00	11.72	PASS
6	23.2395	9.66	8.39	18.05	60.00	41.95	2.26	11.92	50.00	38.08	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading [dBμV] + Factor (Lisn factor [dB] + cable loss [dB]).
3. Margin = Limit [dBμV] – Value [dBμV]

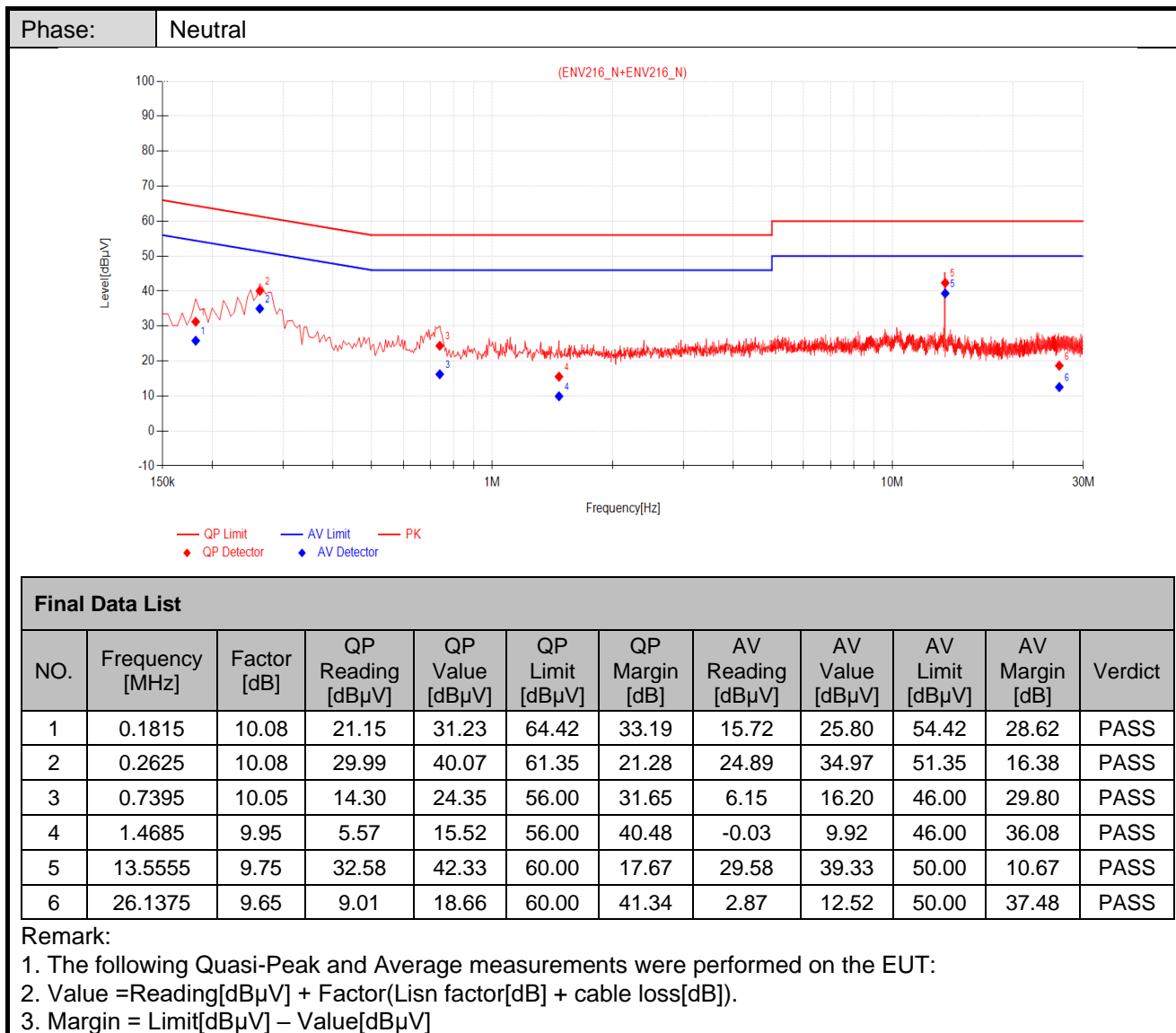


SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

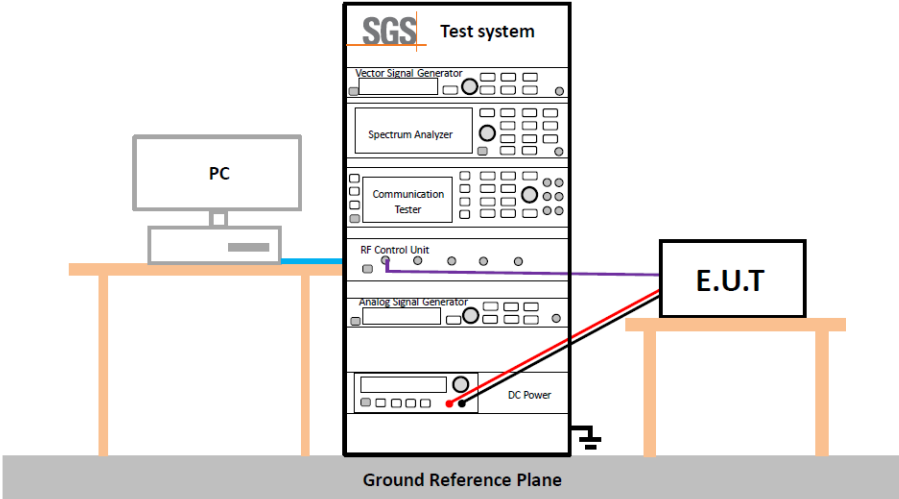
Report No.: SUCR250500043408

Rev.: 01

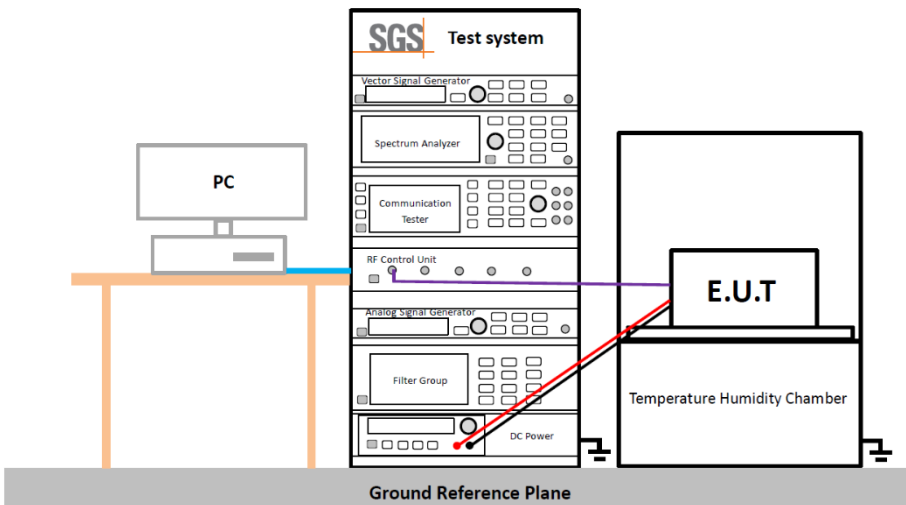
Page: 13 of 29



5.4 20dB Spectrum Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.215(c)
Test Method:	ANSI C63.10: 2013 Section 6.9.3
Test Setup:	
Instruments Used:	Refer to section 3 for details
Limit:	Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.
Test Results:	Pass
The detailed test data see: Appendix	

5.5 Frequency Stability

Test Requirement:	47 CFR Part 15C Section 15.225(e)
Test Method:	ANSI C63.10: 2013 Section 6.8
Test Setup:	
Instruments Used:	Refer to section 3 for details
Limit:	<p>The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) 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.</p> <p>While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.</p>
Test Results:	Pass
The detailed test data see: Appendix	

5.6 Field Strength of Fundamental Emissions

Test Requirement:	47 CFR Part 15C Section 15.225				
Test Method:	ANSI C63.10 :2013 Section 6.4.7				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Limit:	Frequency	Field Strength (μ V/m) at 30m	Field Strength (dB μ V/m) at 30m	Field Strength (dB μ V/m) at 10m	Field Strength (dB μ V/m) at 3m
	1.705~13.110 MHz	30	29.5	48.58	69.5
	13.110-13.410 MHz	106	40.5	59.58	80.5
	13.410-13.553 MHz	334	50.5	69.58	90.5
	13.553-13.567 MHz	15,848	84.0	103.08	124.0
	13.567-13.710 MHz	334	50.5	69.58	90.5
	13.710-14.010 MHz	106	40.5	59.58	80.5
	14.010~30.000 MHz	30	29.5	48.58	69.5

Test Setup:

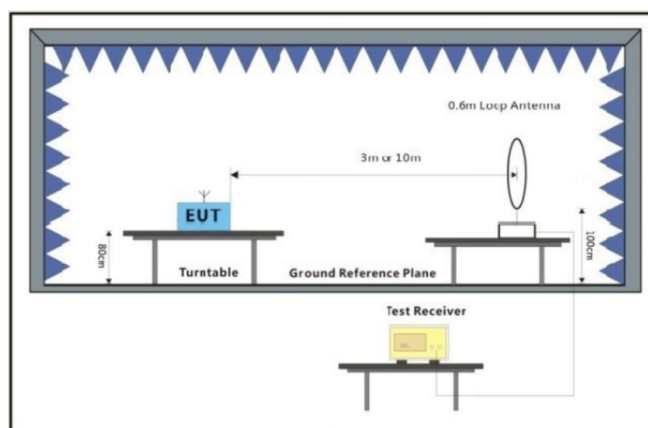


Figure 1. Below 30MHz

Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete. RBW set to 9kHz.
Exploratory Test	Transmitting with modulation.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 17 of 29

Mode:	Charge + Transmitting mode.
Final Test Mode:	Transmitting with modulation. Pretest the EUT at Charge + Transmitting mode.Only the worst case is recorded in the report.
Instruments Used:	Refer to section 3 for details
Test Results:	Pass
The detailed test data see: Appendix	

5.7 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.225				
Test Method:	ANSI C63.10 :2013 Section 6.4&6.5				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	Above 960MHz	500	54.0	Quasi-peak	3
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.					

Test Setup:

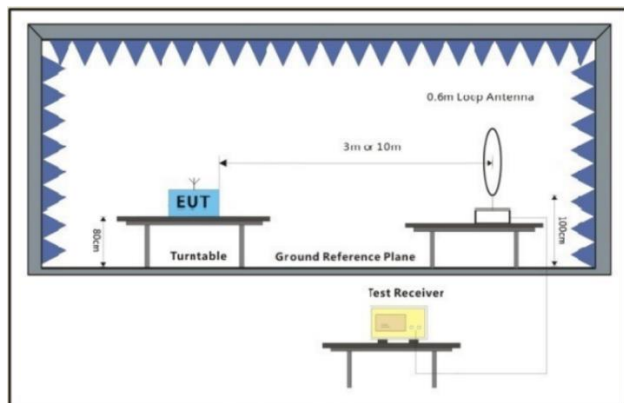


Figure 1. Below 30MHz

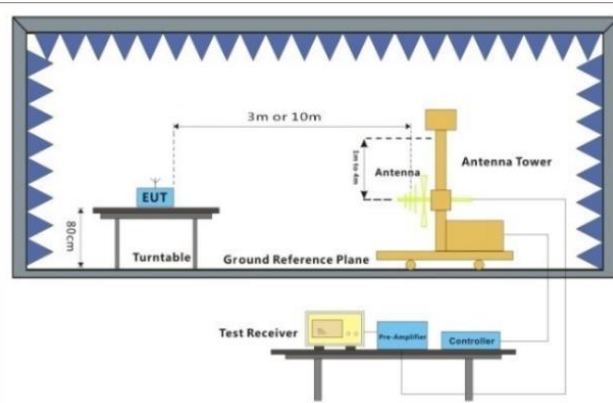


Figure 2. Above 30MHz

Test Procedure:

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- The radiation measurements are performed in X, Y, Z axis positioning for



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 19 of 29

	Transmitting mode, And found the X axis positioning which it is worse case. o. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with modulation. Pretest the EUT at Charge + Transmitting mode.Only the worst case is recorded in the report.
Instruments Used:	Refer to section 3 for details
Test Results:	Pass
The detailed test data see: Appendix	



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 20 of 29

6 Photographs - Setup Photos

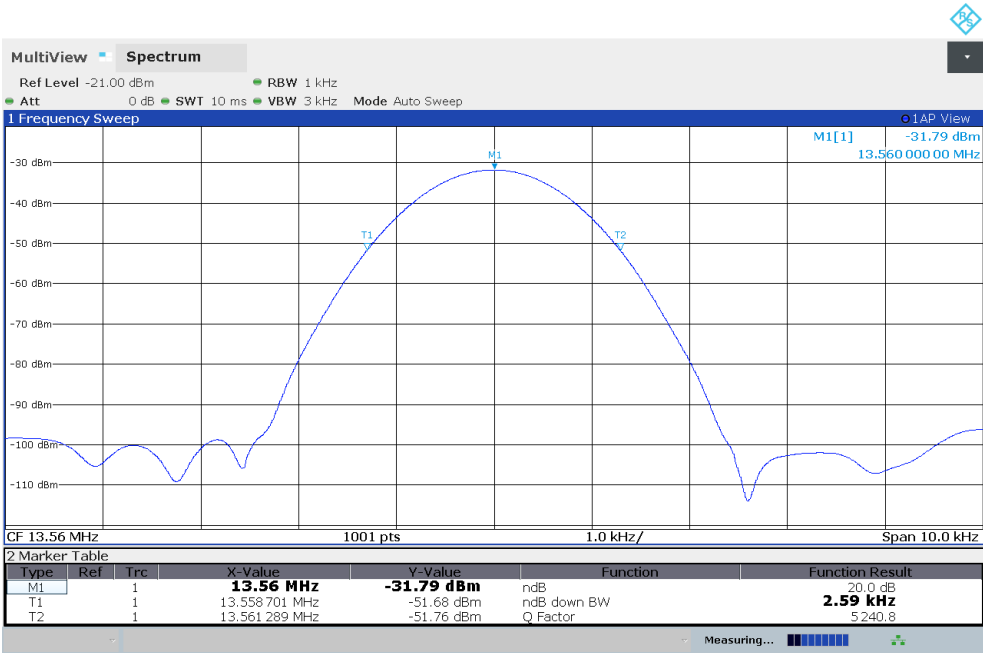
Refer to Appendix A.2 BT&WLAN&NFC Setup Photos.



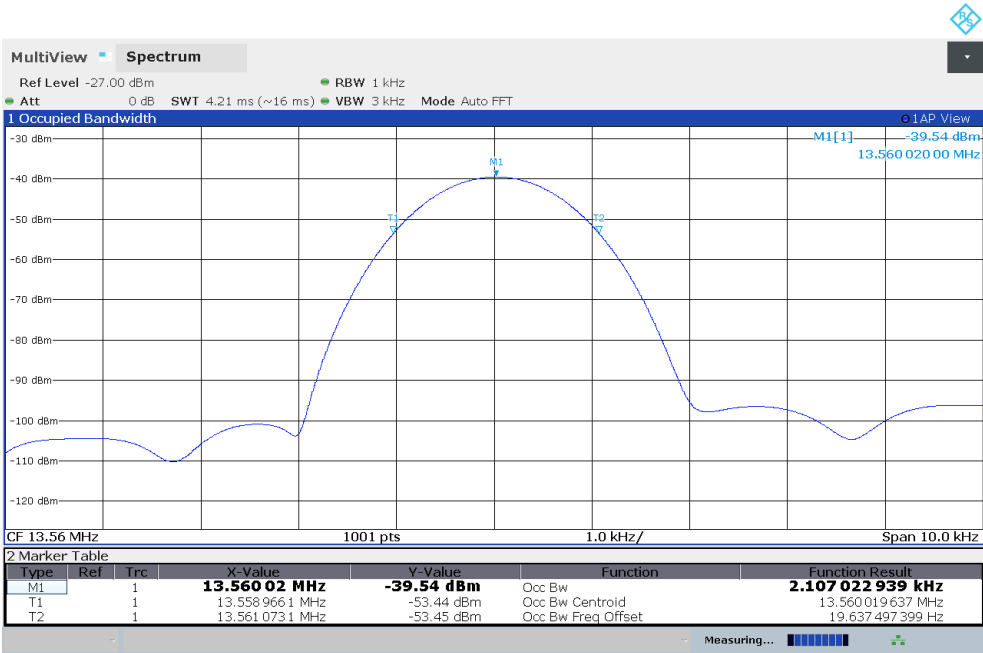
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408
Rev.: 01
Page: 21 of 29

7 Appendix
20dB Bandwidth



99% Occupied Bandwidth



Note:

Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 22 of 29

Frequency tolerance

Declared Frequency (MHz)		13.56MHz			
Startup					
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	3.85	13.55994	0.0001	±0.01	Pass
40		13.55996	0.0001		Pass
30		13.55997	0.0003		Pass
20		13.55995	0.0001		Pass
10		13.55991	0.0001		Pass
0		13.55993	0.0001		Pass
-10		13.55992	0.0003		Pass
-20		13.55994	0.0003		Pass
20		4.40	13.55991		0.0001
	3.60	13.55994	0.0001	Pass	

Declared Frequency (MHz)		13.56MHz			
2mins					
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	3.85	13.55994	0.0001	±0.01	Pass
40		13.55991	0.0001		Pass
30		13.55992	0.0001		Pass
20		13.55996	0.0003		Pass
10		13.55994	0.0002		Pass
0		13.55995	0.0002		Pass
-10		13.55996	0.0003		Pass
-20		13.55996	0.0003		Pass
20		4.40	13.55997		0.0003
	3.60	13.55991	0.0001	Pass	



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 23 of 29

Declared Frequency (MHz)		13.56MHz			
5mins					
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	3.85	13.55993	0.0001	±0.01	Pass
40		13.55991	0.0001		Pass
30		13.55995	0.0001		Pass
20		13.55996	0.0003		Pass
10		13.55994	0.0002		Pass
0		13.55996	0.0001		Pass
-10		13.55991	0.0002		Pass
-20		13.55997	0.0001		Pass
20		4.40	13.55993		0.0001
	3.60	13.55994	0.0003	Pass	

Declared Frequency (MHz)		13.56MHz			
10mins					
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	3.85	13.55995	0.0001	±0.01	Pass
40		13.55994	0.0001		Pass
30		13.55991	0.0001		Pass
20		13.55994	0.0003		Pass
10		13.55993	0.0003		Pass
0		13.55996	0.0001		Pass
-10		13.55992	0.0003		Pass
-20		13.55991	0.0002		Pass
20		4.40	13.55995		0.0001
	3.60	13.55993	0.0001	Pass	



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

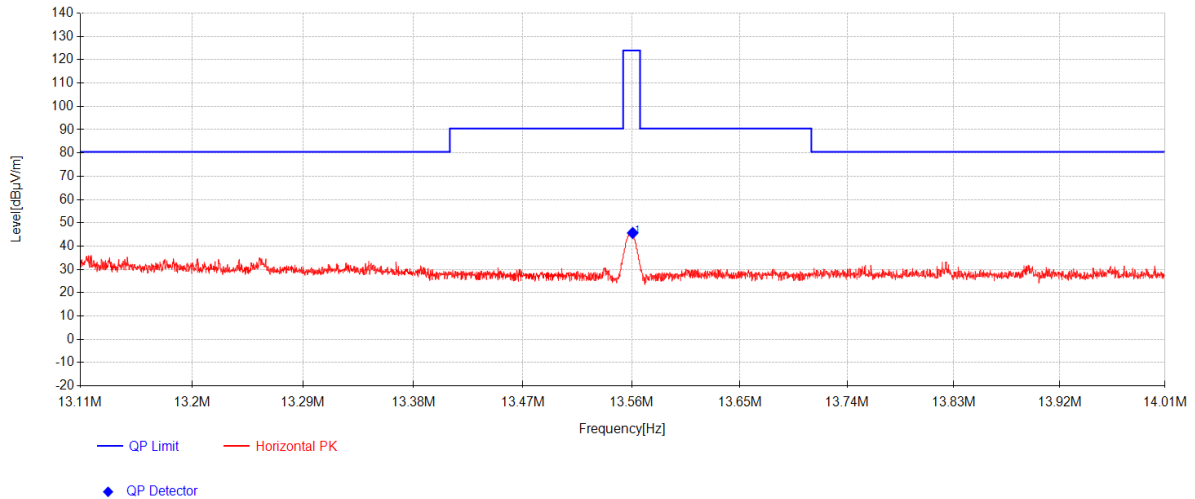
Rev.: 01

Page: 24 of 29

Field Strength of Fundamental Emissions

NFC_Emission Mask

Polarization: Horizontal



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13.5609	25.18	19.80	0.69	45.67	124.00	78.33	100	179	Coaxial

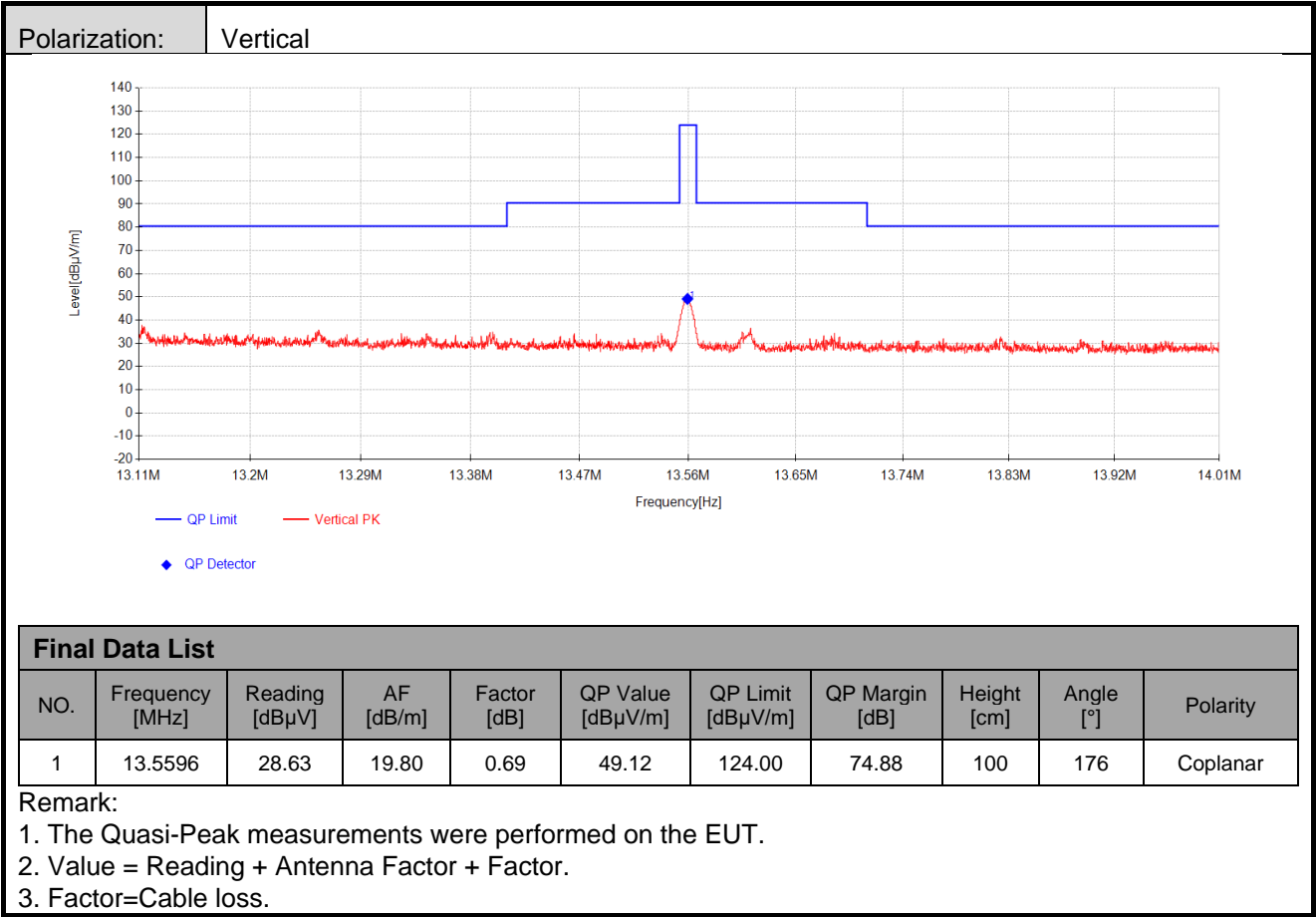
Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Antenna Factor + Factor.
3. Factor=Cable loss.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408
Rev.: 01
Page: 25 of 29





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

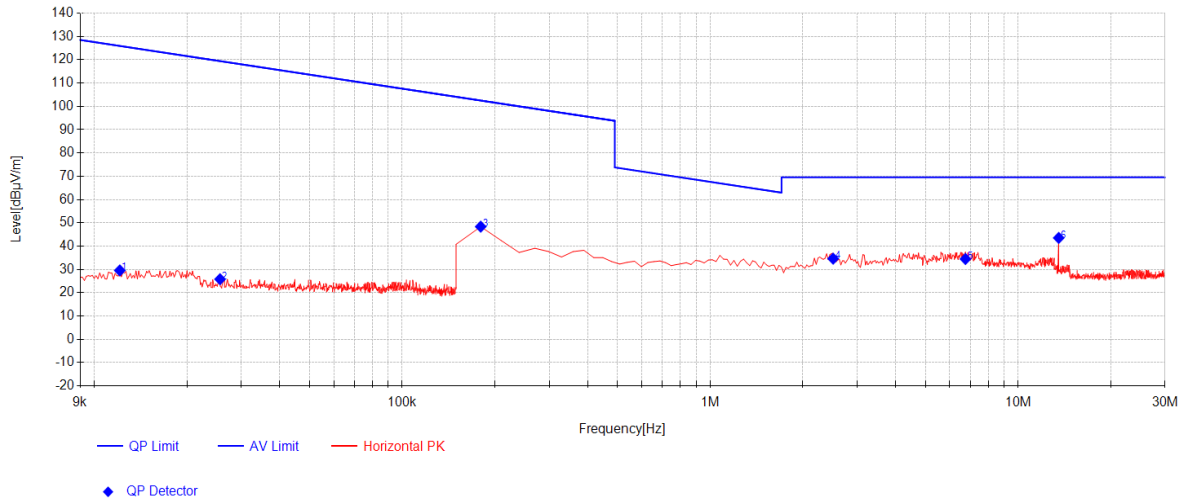
Rev.: 01

Page: 26 of 29

Radiated Spurious Emissions

NFC_RSE below 30M

Polarization: Horizontal



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
4	2.5082	14.32	19.82	0.48	34.62	69.54	34.92	100	359	Coaxial
5	6.7468	13.85	20.06	0.56	34.47	69.54	35.07	100	107	Coaxial
6	13.5526	23.05	19.80	0.69	43.54	69.54	26.00	100	360	Coaxial
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.0121	9.16	19.98	0.43	29.57	125.94	96.37	100	167	Coaxial
2	0.0256	5.32	20.07	0.43	25.82	119.43	93.61	100	0	Coaxial
3	0.1798	27.65	20.29	0.43	48.37	102.51	54.14	100	273	Coaxial

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Antenna Factor + Factor.
3. Factor=Cable loss.



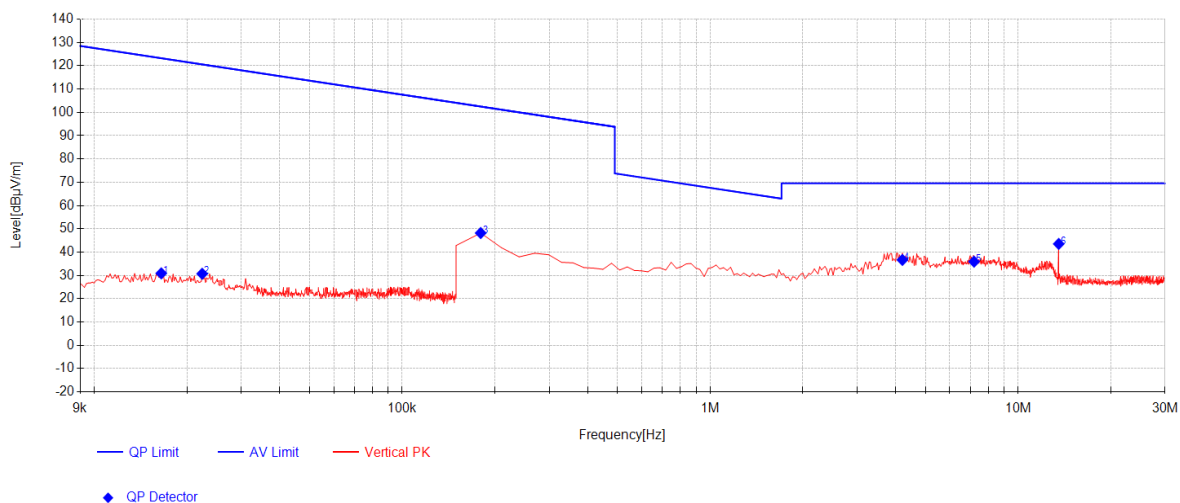
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 27 of 29

Polarization: Vertical



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
4	4.2096	16.35	19.80	0.51	36.66	69.54	32.88	100	319	Coplanar
5	7.1946	15.24	20.10	0.57	35.91	69.54	33.63	100	348	Coplanar
6	13.5526	23.05	19.80	0.69	43.54	69.54	26.00	100	360	Coplanar
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.0165	10.46	20.01	0.43	30.90	123.25	92.35	100	209	Coplanar
2	0.0224	10.22	20.05	0.43	30.70	120.59	89.89	100	209	Coplanar
3	0.1798	27.48	20.29	0.43	48.20	102.51	54.31	100	254	Coplanar

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Antenna Factor + Factor.
3. Factor=Cable loss.



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

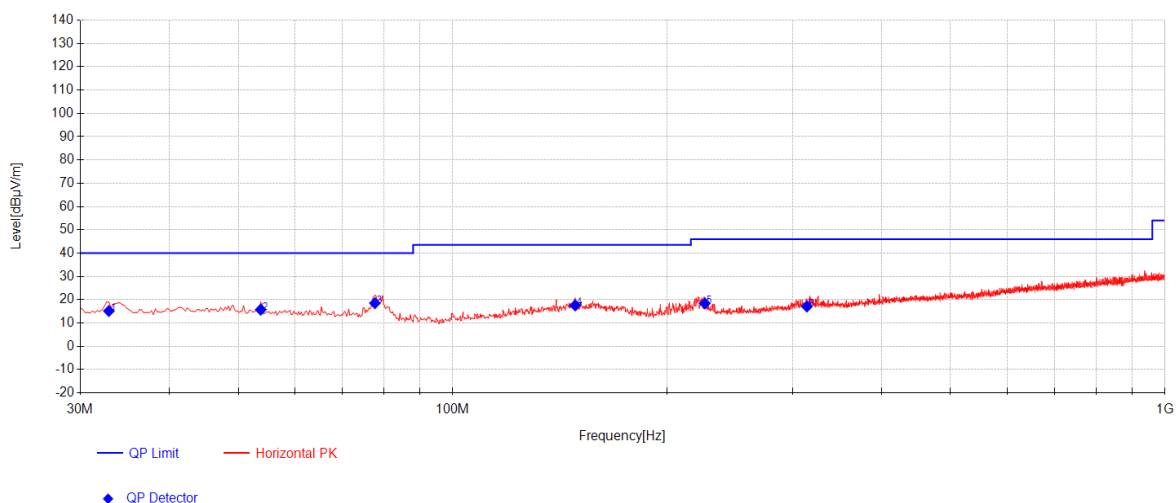
Report No.: SUCR250500043408

Rev.: 01

Page: 28 of 29

NFC_RSE Above 30M

Polarization: Horizontal



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.91	31.06	18.10	-33.98	15.18	40.00	24.82	196	307	Horizontal
2	53.765	31.26	18.12	-33.64	15.74	40.00	24.26	254	339	Horizontal
3	77.7725	36.57	15.32	-33.36	18.53	40.00	21.47	184	22	Horizontal
4	148.5825	31.43	18.86	-32.70	17.59	43.50	25.91	175	296	Horizontal
5	225.94	34.26	16.26	-32.11	18.40	46.00	27.60	263	0	Horizontal
6	314.21	30.06	18.58	-31.55	17.10	46.00	28.90	224	270	Horizontal

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Final Value Level = Reading + Antenna Factor + Factor.
3. Factor=Cable loss – Preamplifier Factor.

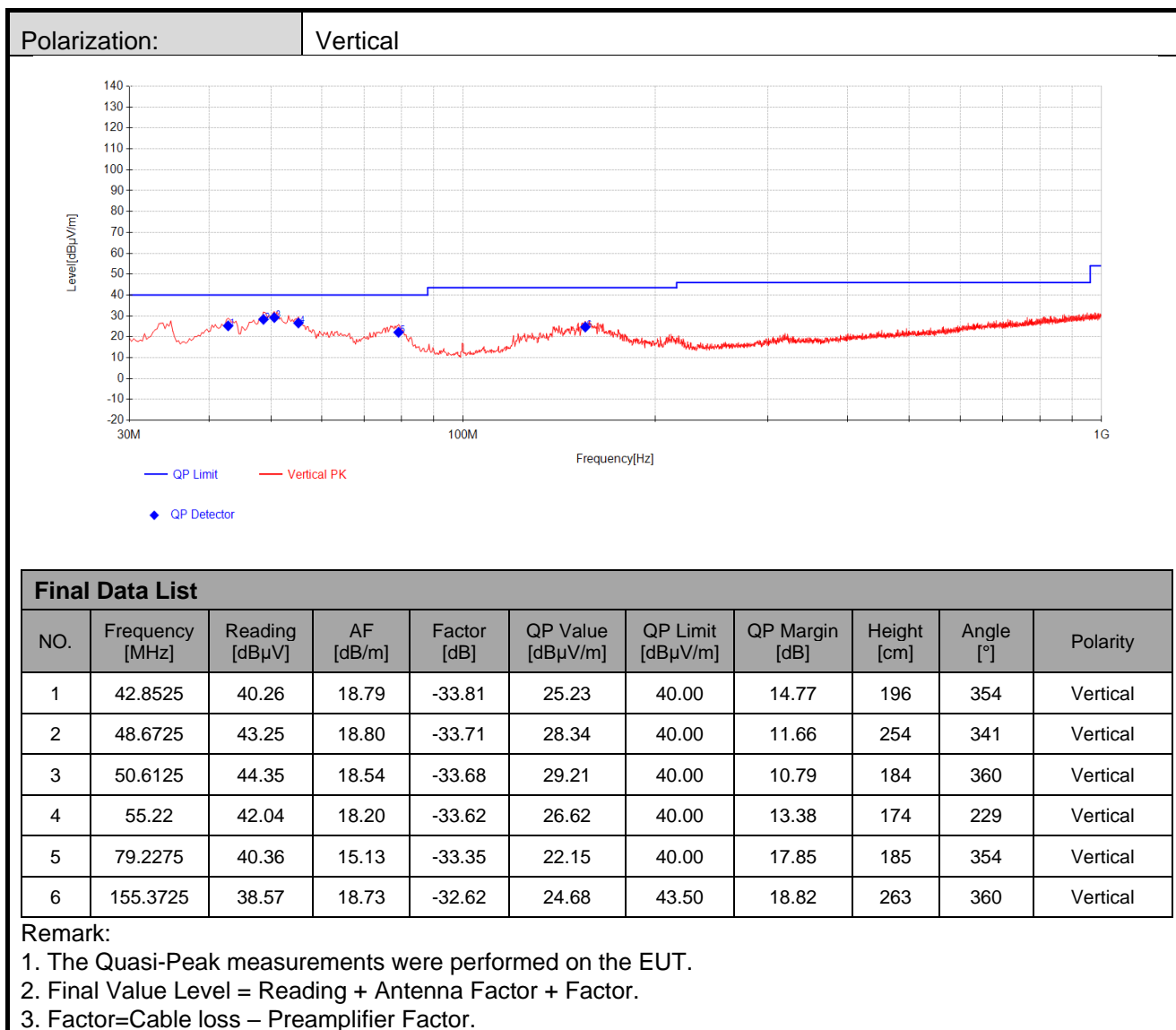


SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500043408

Rev.: 01

Page: 29 of 29



---End of Report---