

TEST REPORT

Application No.:	GZCR2502000179HS
Applicant:	FKA Distributing Co., LLC
Address of Applicant:	3000 N. Pontiac Trail, Commerce Township, Michigan, 48390, United States
Manufacturer:	Shenzhen Yolanda Technology Co., Ltd
Address of Manufacturer:	Room 201, jinfulai Building, No.49-1, Dabao Road, Dalang Area, Xinan Street, Baoan, Shenzhen, China
Factory:	Shenzhen Yolanda Technology Co., Ltd
Address of Factory:	Guangyao industrial plant area - factory building C, No.18, No.4 Industrial Zone, Zhulongtian Road, Shuitian community, Shiyan street, Baoan, Shenzhen, China
Product Name:	Digital Scale
Model No.:	SCL-X100-BK, SCL-B100-BK, SCL-B150-BK, SCL-X100-WT, SCL-B100-WT, SCL-B150-WT, SCL-B100, SCL-B150, SCL-X100, SCL-B100BK-US ♣
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) :	47 CFR Part 15, Subpart C 15.249
Date of Receipt:	2025-02-06
Date of Test:	2025-02-13 to 2025-02-20
Date of Issue:	2025-03-12

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Ricky Liu
Manager

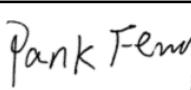


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Guangzhou Branch Testing & EEC Laboratory
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Revision Record			
Version	Report No.	Date	Remark
01	GZCR250200017902	2025-03-12	Original

Authorized for issue by:			
			
	<u>Pank Feng/Project Engineer</u>		
			
	<u>Vico Cui/Reviewer</u>		

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t (86-20) 82155555 sgs.china@sgs.com

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Restricted Band Around Fundamental Frequency		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass
Radiated Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
Radiated Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

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◆ Declaration of EUT Family Grouping:

Model No.: SCL-B150-BK, SCL-X100-BK, SCL-B100-BK, SCL-X100-WT, SCL-B100-WT, SCL-B150-WT, SCL-B100, SCL-B150, SCL-X100, SCL-B100BK-US

According to the declaration from the applicant, the difference are as below.

		
SCL-B150-BK, SCL-B150-WT, SCL-B150	SCL-X100-BK, SCL-X100-WT, SCL-X100	SCL-B100-BK, SCL-B100-WT, SCL-B100, SCL-B100BK-US
the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model name.	the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model name.	the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model name.
The 5.8GHz radar of all model are same.		

Therefore models M1: SCL-B100-BK was perform full test, M2: SCL-B150-BK and M3: SCL-X100-BK were performed Radiated Emissions Below 1GHz tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Battery operation:
	M1: SCL-B100-BK: DC 6V=DC 1.5V x 4 Size AAA batteries
	M2: SCL-B150-BK: DC 6V=DC 1.5V x 4 Size AAA batteries
	M3: SCL-X100-BK: DC 4.5V=DC 1.5V x 3 Size AAA batteries
Cables:	None
Test Voltage:	The same as power supply
Operation Frequency:	5725MHz to 5875MHz
Modulation Type:	GFSK
Antenna Type:	Patch Antenna
Antenna Gain:	2 dBi according to antenna specification
Antenna Number:	1

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Field Strength of the Fundamental Signal (15.249(a))	±4.88dB (1GHz-6GHz);±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz)
Restricted Band Around Fundamental Frequency	±4.88dB (1GHz-6GHz);±5.06dB (6GHz-18GHz)
Radiated Emissions Below 1GHz	±3.08dB (9kHz to 150kHz); ±3.19dB(150kHz to 30MHz); ±5.14dB (30MHz-1GHz) (3m); ±4.90dB (30MHz-1GHz) (10m)
Radiated Emissions Above 1GHz	±4.88dB (1GHz-6GHz);±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz)
20dB Bandwidth	± 0.274%

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cisp} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.

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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663
Tel: +86 20 82155555
No tests were sub-contracted.

4.5 Test Facility

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Field Strength of the Fundamental Signal (15.249(a))					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

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Radiated Emissions Below 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2022-10-16	2025-10-15
Coaxial cable	Mirco-COAX UTIFLEX	311A	EMC0540	2024-08-19	2026-08-18
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2024-12-04	2025-12-03
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-08	2026-04-07
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR7	EMC2220	2024-12-04	2025-12-03
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess-Elektronik	VULB 9168	EMC2174	2022-06-19	2025-06-18

Radiated Emissions Above 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2024-07-17	2025-07-16
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2024-08-19	2025-08-18
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

RF Conducted Test

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer (10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2024-12-03	2025-12-02
MI CABLE	SGS-EMC	0.8M	EMC2136	2023-11-02	2025-11-01

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t (86-20) 82155555 sgs.china@sgs.com

General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2024-06-13	2025-06-12



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SGS-CSTC Standards Technical Services Co., Ltd
Guangzhou Branch Testing Center EEC Laboratory
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

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, 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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2 dBi.

Antenna location: Refer to Internal photos



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7 Radio Spectrum Matter Test Results

7.1 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)

Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Limit:

Test Distance: 3m

Fundamental frequency (MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Remark: The frequencies above 1000MHz are based on average limits. However, 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.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

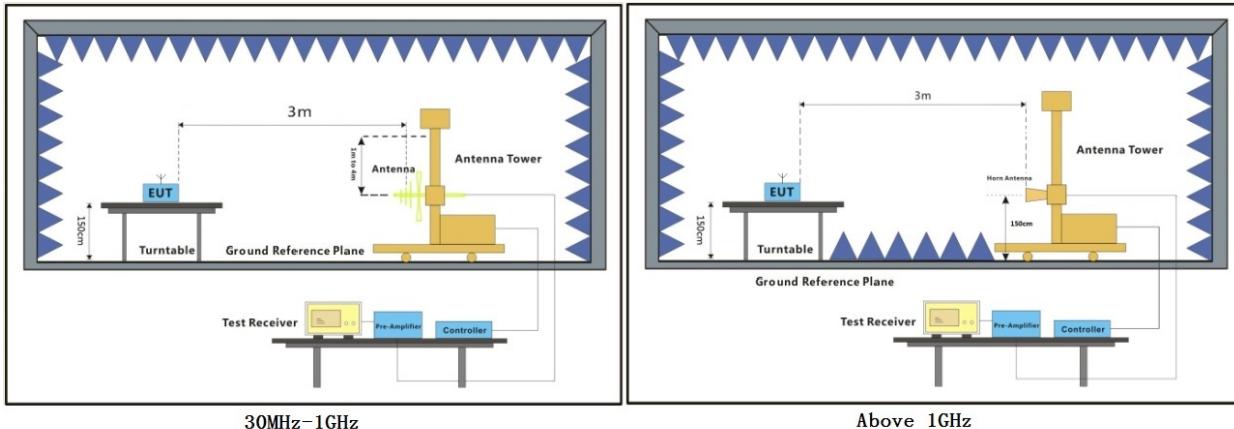
Pre-scan / Mode		Description
Final test Code		
Final test 00		TX mode_Keep the EUT in transmitting with modulation mode.

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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- For below 1GHz, 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. 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.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

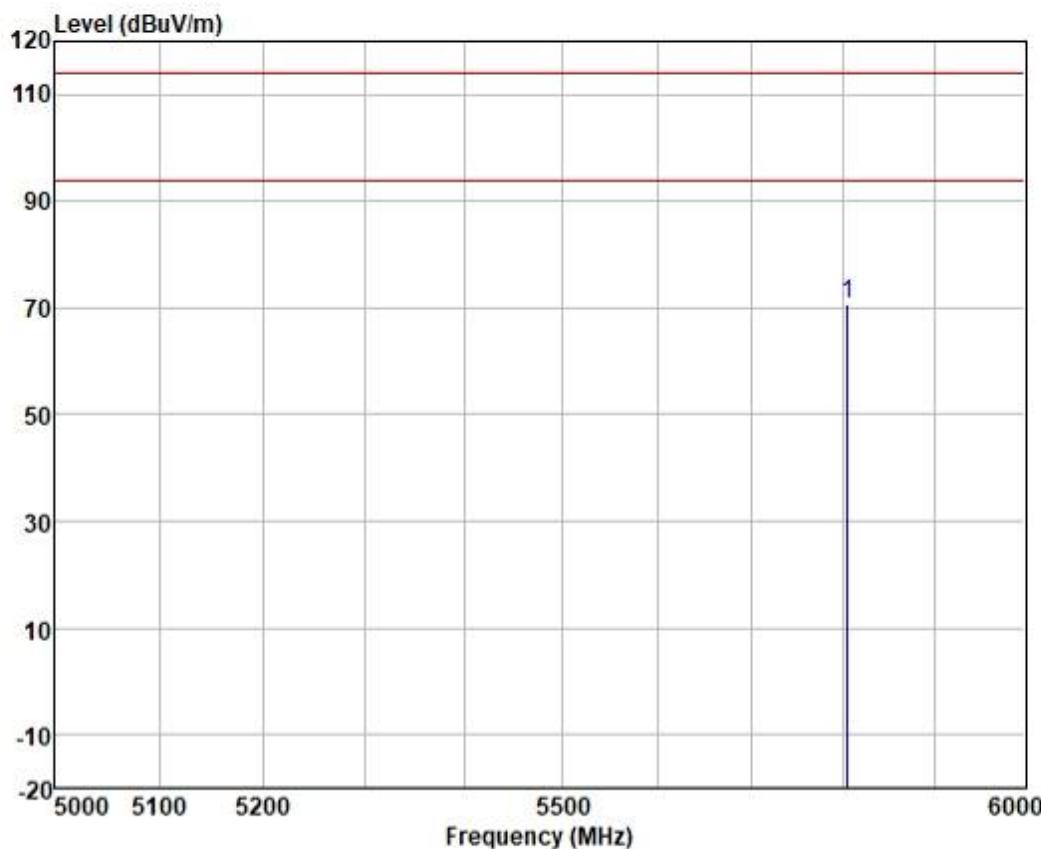
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Test Mode: 00; Polarity: Vertical



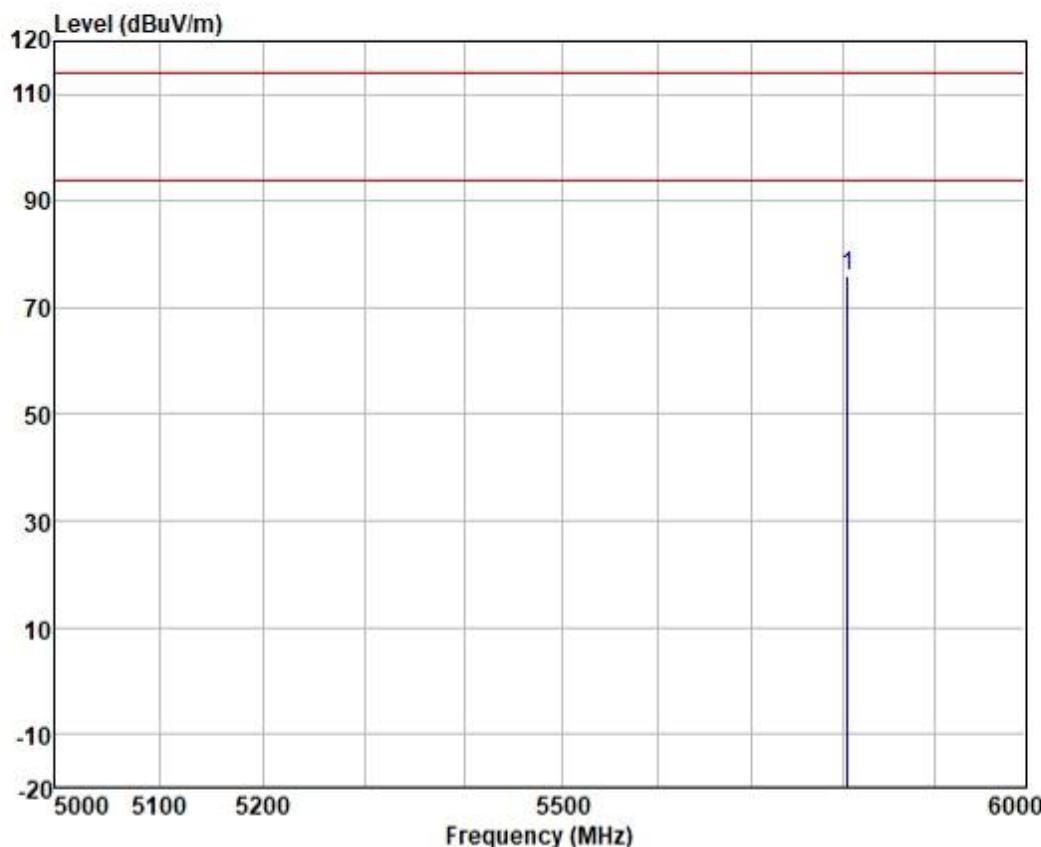
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1	5805.017	69.75	32.67	5.34	37.12	70.64	114.00	-43.36	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark	
	Freq	Level	Factor	Loss	Factor	Line		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 5805.017	74.89	32.67	5.34	37.12	75.78	114.00	-38.22	HORIZONTAL Peak



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7.2 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

7.2.1 E.U.T. Operation

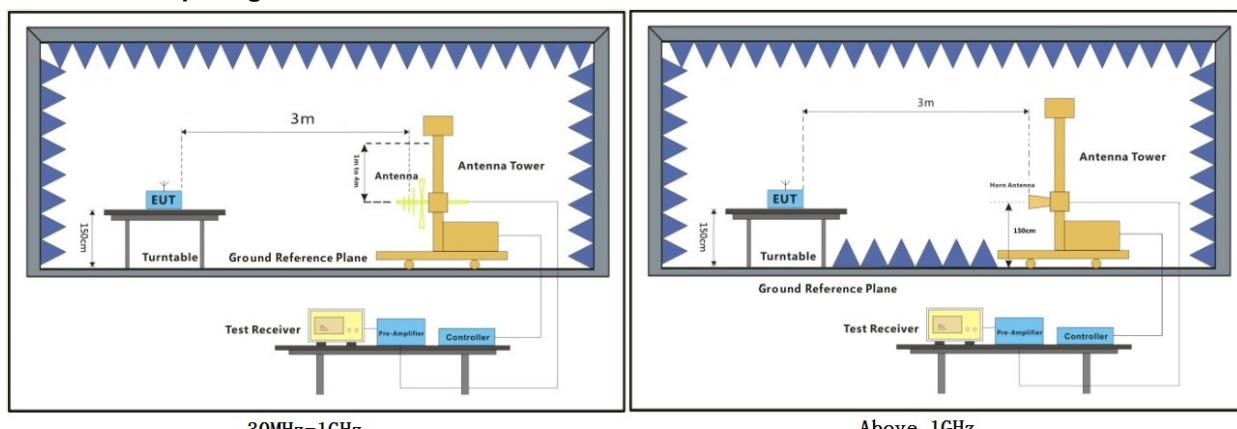
Operating Environment:

Temperature: 22.3 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode_Keep the EUT in transmitting with modulation mode.

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

- a. For below 1GHz, 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. 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.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

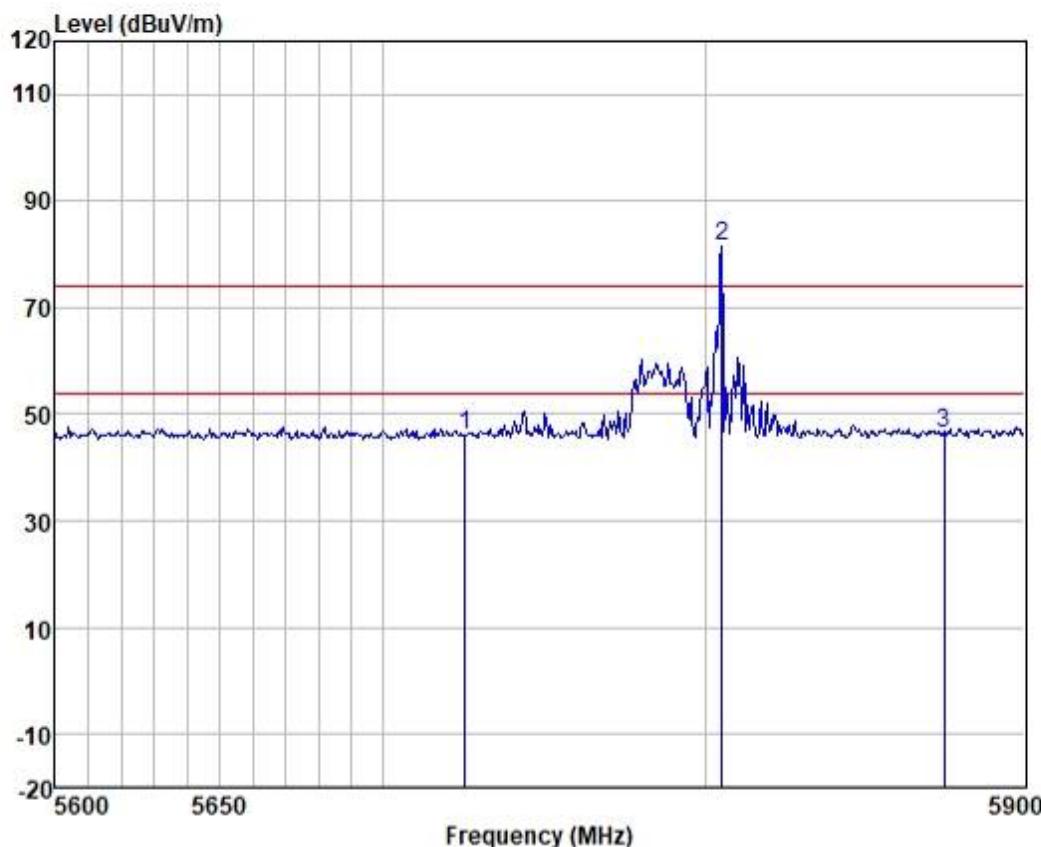


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Guangzhou Branch Testing Center EEC Laboratory
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t (86-20) 82155555 sgs.china@sgs.com

Test Mode: 00; Polarity: Vertical

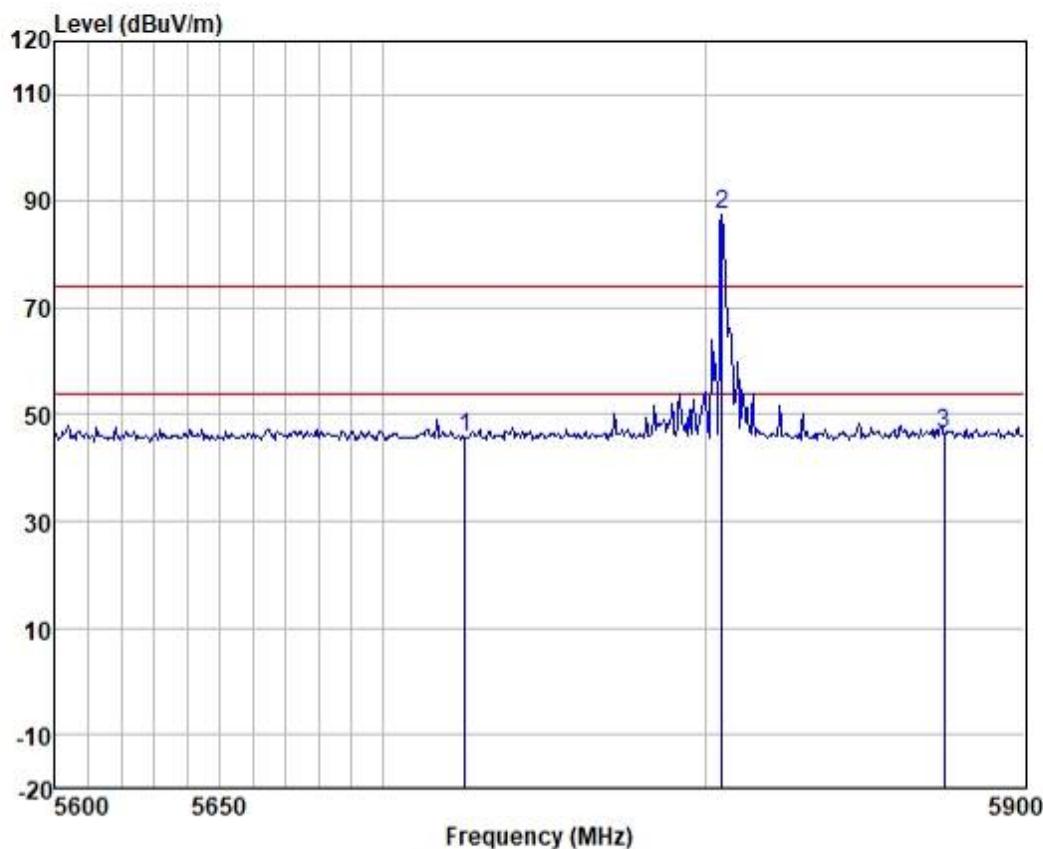


Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Antenna Factor	Loss	dB	dB	dBuV/m	dBuV/m	dB	
1	5725.000	45.40	32.65	5.29	37.13	46.21	74.00	-27.79	VERTICAL	peak
2	5805.017	80.53	32.67	5.34	37.12	81.42	74.00	7.42	VERTICAL	Peak
3	5875.000	45.55	32.68	5.39	37.11	46.51	74.00	-27.49	VERTICAL	peak

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Test Mode: 00; Polarity: Horizontal



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 5725.000	44.75	32.65	5.29	37.13	45.56	74.00	-28.44	HORIZONTAL	peak	
2 * 5805.017	86.64	32.67	5.34	37.12	87.53	74.00	13.53	HORIZONTAL	Peak	
3 5875.000	45.31	32.68	5.39	37.11	46.27	74.00	-27.73	HORIZONTAL	peak	



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7.3 Radiated Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Limit:

Test Distance: 10 m

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C

Humidity: 49.3 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

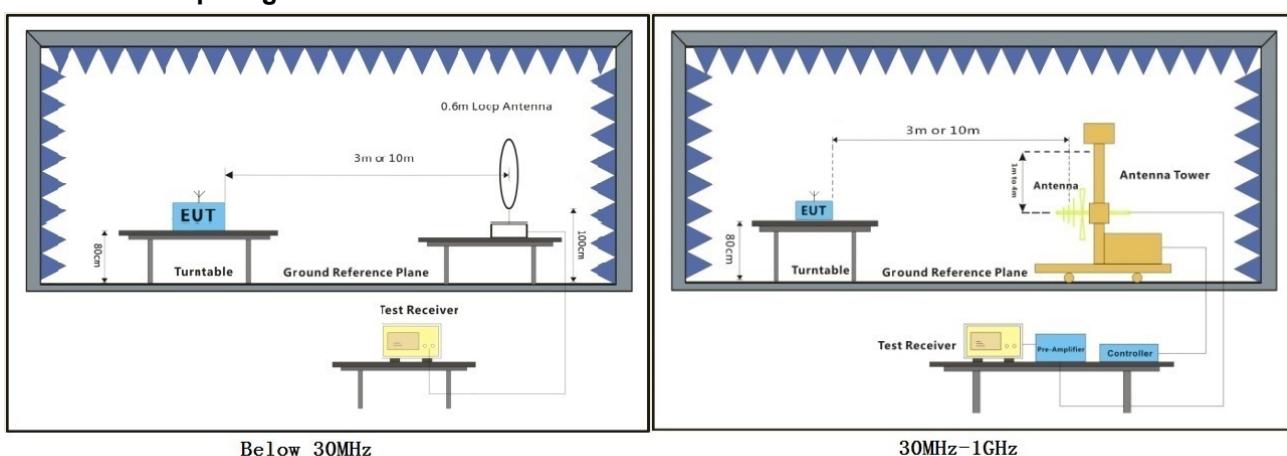
Pre-scan / Mode

Final test Code

Final test 00

Description

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

- a. For below 1GHz, 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.
- b. 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.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

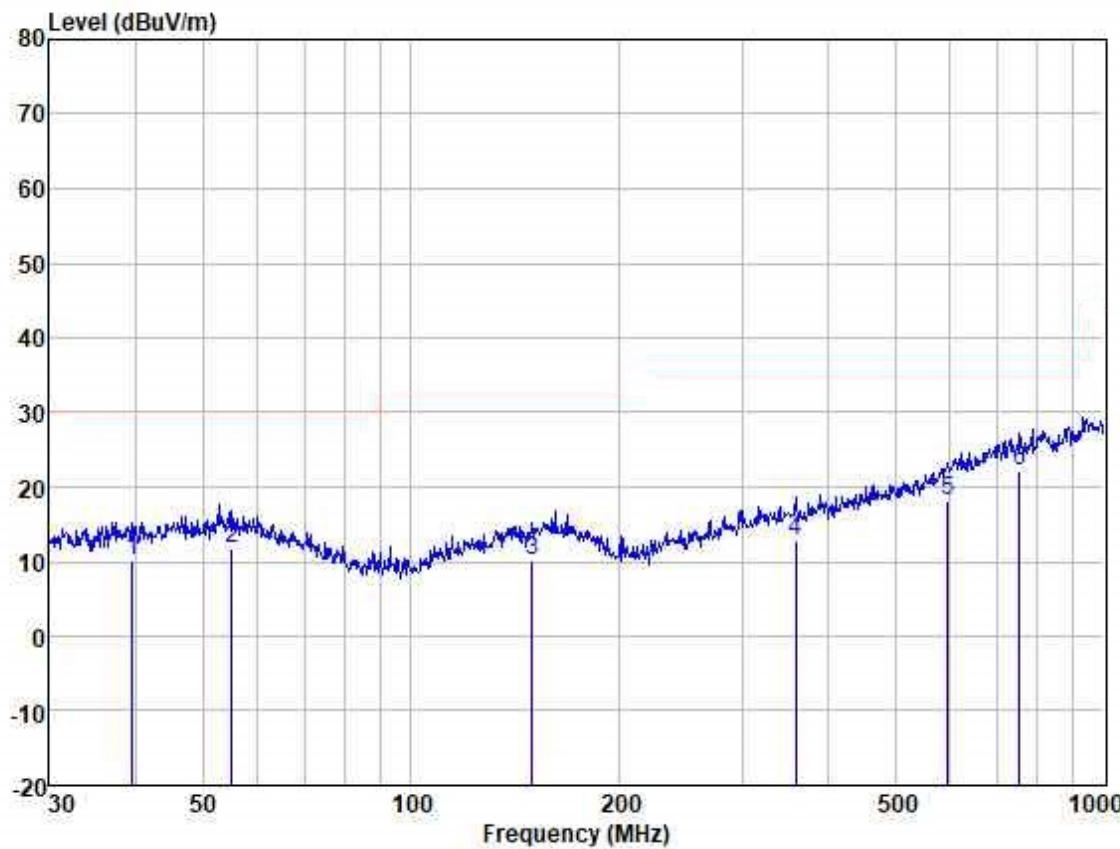
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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Test Mode: 00; Polarity: Horizontal



Site : SGS
Job :
Model : M1
Power :
Test Mode : TX

Freq	Read	Antena	Cable	Preamp	Measured	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Phase	
1	39.576	23.97	13.50	0.68	27.98	10.17	HORIZONTAL QP
2	55.027	25.19	13.81	0.76	27.95	11.81	HORIZONTAL QP
3	149.486	23.41	13.52	0.98	27.73	10.18	HORIZONTAL QP
4	359.186	23.70	14.62	1.78	27.40	12.70	HORIZONTAL QP
5	595.133	24.48	20.04	2.03	28.47	18.08	HORIZONTAL QP
6	755.387	26.04	21.98	2.45	28.31	22.16	HORIZONTAL QP



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Frequency (MHz)	Level @10m (dBuV/m)	Convert Factor (dB)*	Level @ 3m (dBuV/m)	Limit @3m (dBuV/m)	Over limit (dB)	Remark
39.576	10.17	10.46	20.63	40.00	-19.37	QP
55.027	11.81	10.46	22.27	40.00	-17.73	QP
149.486	10.18	10.46	20.64	43.52	-22.88	QP
359.186	12.70	10.46	23.16	46.02	-22.86	QP
595.133	18.08	10.46	28.54	46.02	-17.48	QP
755.387	22.16	10.46	32.62	46.02	-13.40	QP

*Remark:

Level (dBuV/m) @3m = Level (dBuV/m) @10m + Convert Factor (dB)

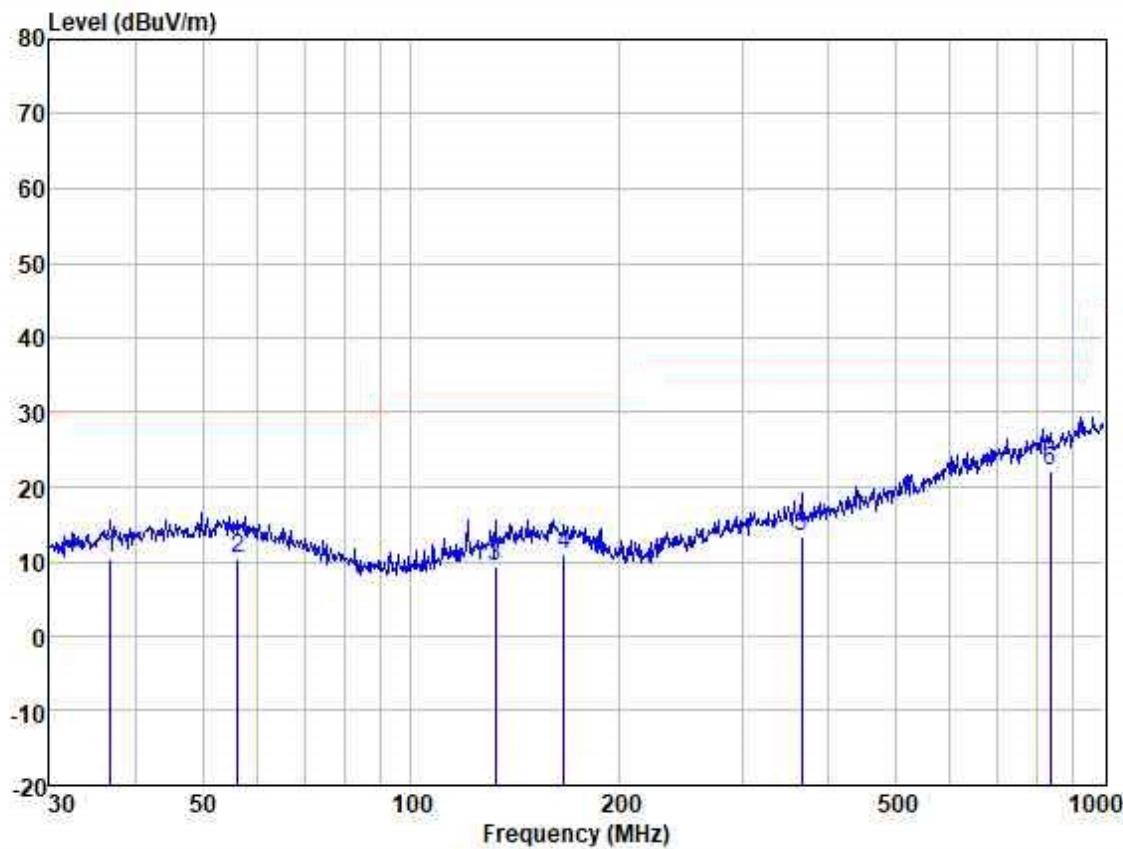
Convert Factor (dB) = $20 \cdot \log(\text{Measurement Distance}/\text{Specified Distance}) = 20 \cdot \log(10/3) = 10.46$ dB according to 15.31 (f) (1)



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Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model : M1
Power :
Test Mode : TX

Freq	Read	Antenna	Cable	Preamp	Measured	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Phase	
1	36.766	24.53	13.20	0.65	27.99	10.39	VERTICAL QP
2	56.197	23.78	13.74	0.77	27.94	10.35	VERTICAL QP
3	132.221	23.86	12.31	0.93	27.76	9.34	VERTICAL QP
4	166.068	24.10	13.41	1.04	27.69	10.86	VERTICAL QP
5	366.823	24.11	14.76	1.79	27.45	13.21	VERTICAL QP
6	839.182	24.92	22.86	2.58	28.25	22.11	VERTICAL QP



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Frequency (MHz)	Level @10m (dBuV/m)	Convert Factor (dB)*	Level @ 3m (dBuV/m)	Limit @3m (dBuV/m)	Over limit (dB)	Remark
36.766	10.39	10.46	20.85	40.00	-19.15	QP
56.197	10.35	10.46	20.81	40.00	-19.19	QP
132.221	9.34	10.46	19.80	43.52	-23.72	QP
166.068	10.86	10.46	21.32	43.52	-22.20	QP
366.823	13.21	10.46	23.67	46.02	-22.35	QP
839.182	22.11	10.46	32.57	46.02	-13.45	QP

*Remark:

Level (dBuV/m) @3m = Level (dBuV/m) @10m + Convert Factor (dB)

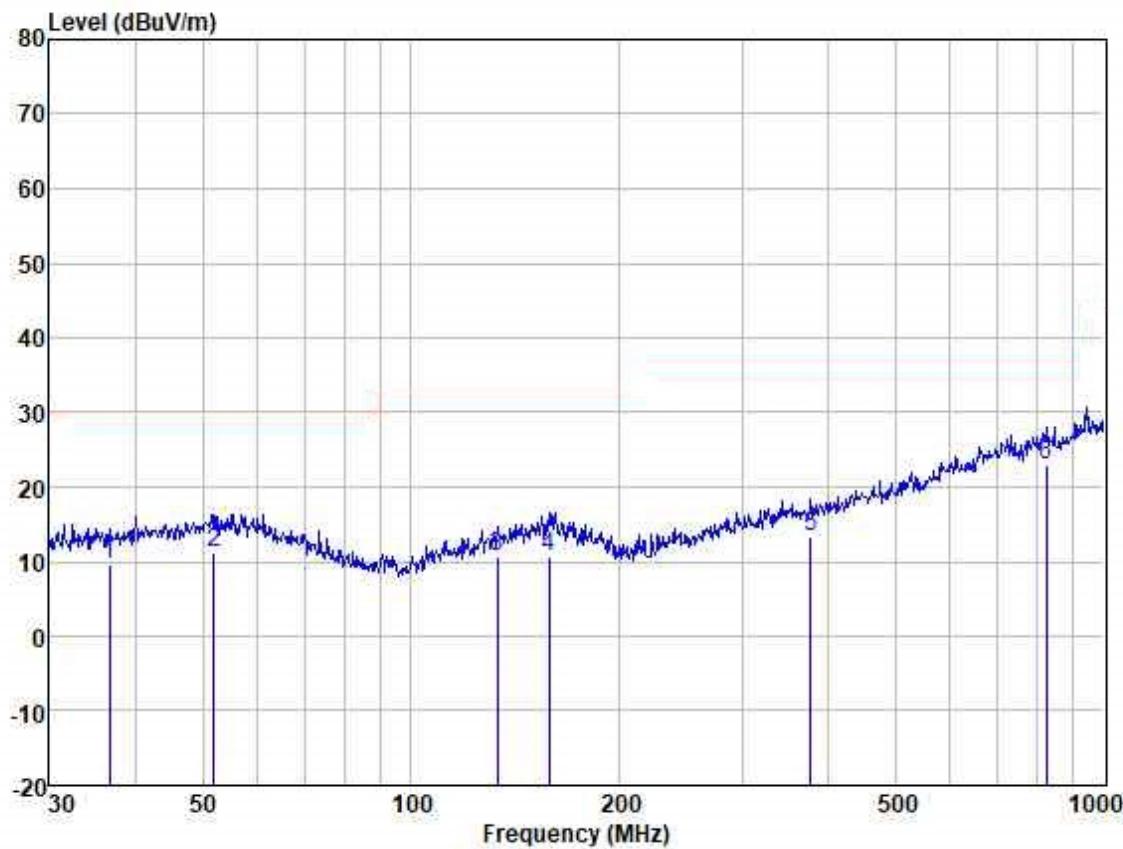
Convert Factor (dB) = $20 \log(\text{Measurement Distance}/\text{Specified Distance}) = 20 \log(10/3) = 10.46 \text{ dB}$ according to 15.31 (f) (1)



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Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model : M2
Power :
Test Mode : TX

Freq	Read	Antena	Cable	Preamp	Measured	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Phase	
1 36.637	23.67	13.20	0.65	27.99	9.53	HORIZONTAL	QP
2 51.843	24.52	13.93	0.75	27.95	11.25	HORIZONTAL	QP
3 133.151	25.14	12.41	0.93	27.76	10.72	HORIZONTAL	QP
4 158.112	23.70	13.64	1.01	27.71	10.64	HORIZONTAL	QP
5 377.259	23.98	15.05	1.80	27.52	13.31	HORIZONTAL	QP
6 827.493	25.39	23.25	2.57	28.26	22.95	HORIZONTAL	QP



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Frequency (MHz)	Level @10m (dBuV/m)	Convert Factor (dB)*	Level @ 3m (dBuV/m)	Limit @3m (dBuV/m)	Over limit (dB)	Remark
36.637	9.53	10.46	19.99	40.00	-20.01	QP
51.843	11.25	10.46	21.71	40.00	-18.29	QP
133.151	10.72	10.46	21.18	43.52	-22.34	QP
158.112	10.64	10.46	21.10	43.52	-22.42	QP
377.259	13.31	10.46	23.77	46.02	-22.25	QP
827.493	22.95	10.46	33.41	46.02	-12.61	QP

*Remark:

Level (dBuV/m) @3m = Level (dBuV/m) @10m + Convert Factor (dB)

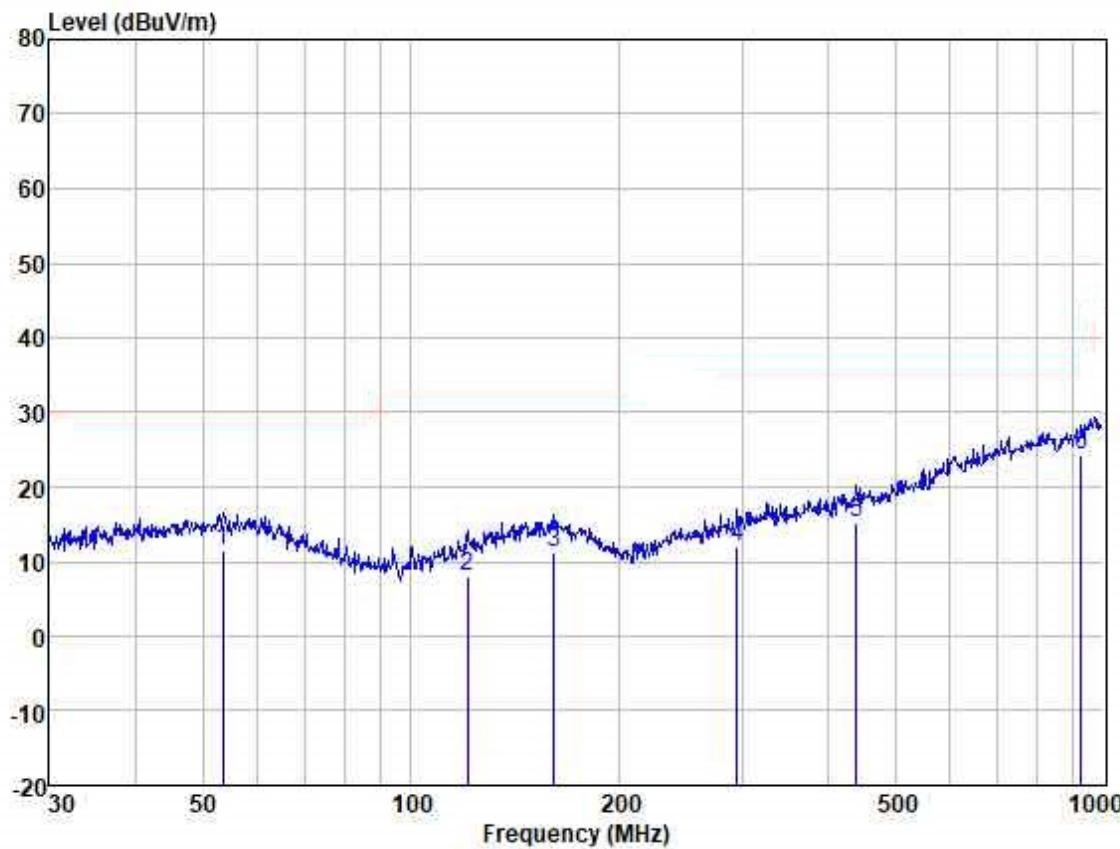
Convert Factor (dB) = $20 \times \log(\text{Measurement Distance}/\text{Specified Distance}) = 20 \times \log(10/3) = 10.46$ dB according to 15.31 (f) (1)



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Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model : M2
Power :
Test Mode : TX

Freq	Read	Antena	Cable	Preamp	Measured	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Phase	
1 53.505	24.84	13.90	0.76	27.95	11.55	VERTICAL	QP
2 120.699	23.56	11.32	0.90	27.77	8.01	VERTICAL	QP
3 160.909	24.18	13.63	1.03	27.70	11.14	VERTICAL	QP
4 295.147	24.24	13.30	1.68	27.21	12.01	VERTICAL	QP
5 440.196	24.79	16.79	1.85	28.29	15.14	VERTICAL	QP
6 929.008	25.73	23.61	2.67	27.83	24.18	VERTICAL	QP



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Frequency (MHz)	Level @10m (dBuV/m)	Convert Factor (dB)*	Level @ 3m (dBuV/m)	Limit @3m (dBuV/m)	Over limit (dB)	Remark
53.505	11.55	10.46	22.01	40.00	-17.99	QP
120.699	8.01	10.46	18.47	43.52	-25.05	QP
160.909	11.14	10.46	21.60	43.52	-21.92	QP
295.147	12.01	10.46	22.47	46.02	-23.55	QP
440.196	15.14	10.46	25.60	46.02	-20.42	QP
929.008	24.18	10.46	34.64	46.02	-11.38	QP

*Remark:

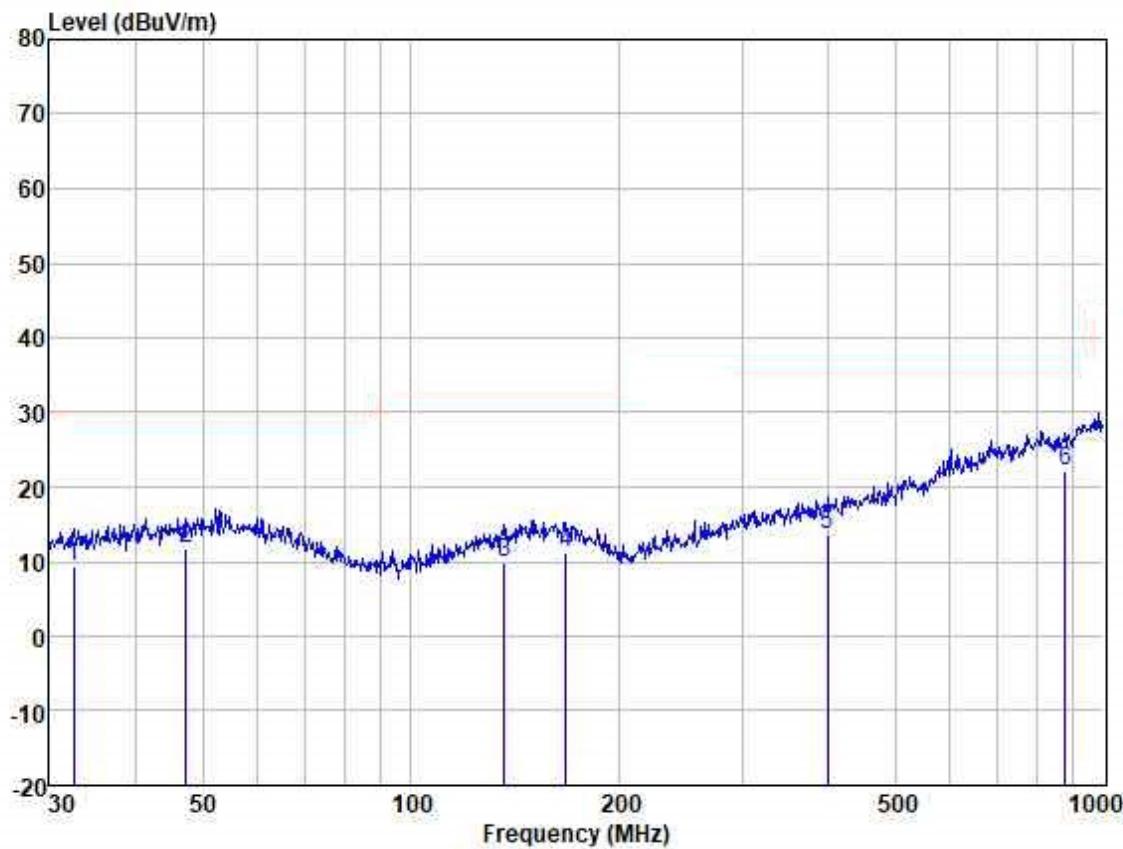
Level (dBuV/m) @3m = Level (dBuV/m) @10m + Convert Factor (dB)

Convert Factor (dB) = $20 \cdot \log(\text{Measurement Distance}/\text{Specified Distance}) = 20 \cdot \log(10/3) = 10.46 \text{ dB}$ according to 15.31 (f) (1)

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Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model : M3
Power :
Test Mode : TX

Freq	Read	Antena	Cable	Preamp	Measured	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Phase	
1 32.520	23.98	12.85	0.58	28.00	9.41	HORIZONTAL	QP
2 47.326	25.00	13.94	0.73	27.97	11.70	HORIZONTAL	QP
3 136.460	23.73	12.90	0.95	27.75	9.83	HORIZONTAL	QP
4 167.237	24.40	13.38	1.05	27.68	11.15	HORIZONTAL	QP
5 399.030	24.09	15.53	1.82	27.80	13.64	HORIZONTAL	QP
6 881.407	24.93	22.73	2.62	28.13	22.15	HORIZONTAL	QP



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Frequency (MHz)	Level @10m (dBuV/m)	Convert Factor (dB)*	Level @ 3m (dBuV/m)	Limit @3m (dBuV/m)	Over limit (dB)	Remark
32.520	9.41	10.46	19.87	40.00	-20.13	QP
47.326	11.70	10.46	22.16	40.00	-17.84	QP
136.460	9.83	10.46	20.29	43.52	-23.23	QP
167.237	11.15	10.46	21.61	43.52	-21.91	QP
399.030	13.64	10.46	24.10	46.02	-21.92	QP
881.407	22.15	10.46	32.61	46.02	-13.41	QP

*Remark:

Level (dBuV/m) @3m = Level (dBuV/m) @10m + Convert Factor (dB)

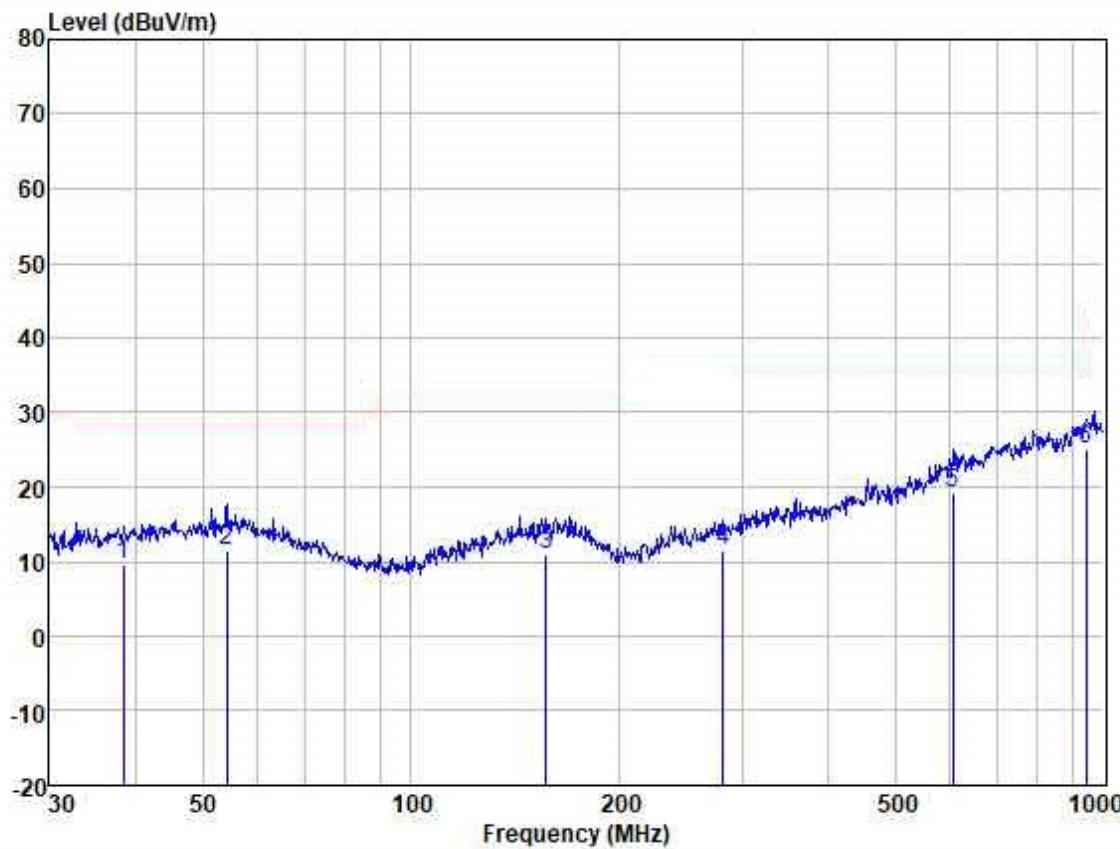
Convert Factor (dB) = $20 \cdot \log(\text{Measurement Distance}/\text{Specified Distance}) = 20 \cdot \log(10/3) = 10.46$ dB according to 15.31 (f) (1)



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Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model : M3
Power :
Test Mode : TX

Freq	Read	Antenna	Cable	Preamp	Measured	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Phase	
1 38.346	23.51	13.40	0.67	27.99	9.59	VERTICAL	QP
2 54.071	24.87	13.86	0.76	27.95	11.54	VERTICAL	QP
3 156.458	23.94	13.61	1.01	27.71	10.85	VERTICAL	QP
4 281.995	24.02	12.98	1.64	27.22	11.42	VERTICAL	QP
5 605.659	25.44	20.17	2.06	28.46	19.21	VERTICAL	QP
6 945.440	26.12	24.12	2.68	27.78	25.14	VERTICAL	QP

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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EEC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

Frequency (MHz)	Level @10m (dBuV/m)	Convert Factor (dB)*	Level @ 3m (dBuV/m)	Limit @3m (dBuV/m)	Over limit (dB)	Remark
38.346	9.59	10.46	20.05	40.00	-19.95	QP
54.071	11.54	10.46	22.00	40.00	-18.00	QP
156.458	10.85	10.46	21.31	43.52	-22.21	QP
281.995	11.42	10.46	21.88	46.02	-24.14	QP
605.659	19.21	10.46	29.67	46.02	-16.35	QP
945.440	25.14	10.46	35.60	46.02	-10.42	QP

***Remark:**

Level (dBuV/m) @3m = Level (dBuV/m) @10m + Convert Factor (dB)

Convert Factor (dB) = $20 \log(\text{Measurement Distance}/\text{Specified Distance}) = 20 \log(10/3) = 10.46 \text{ dB}$ according to 15.31 (f) (1)

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7.4 Radiated Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Above 1000	500	3

7.4.1 E.U.T. Operation

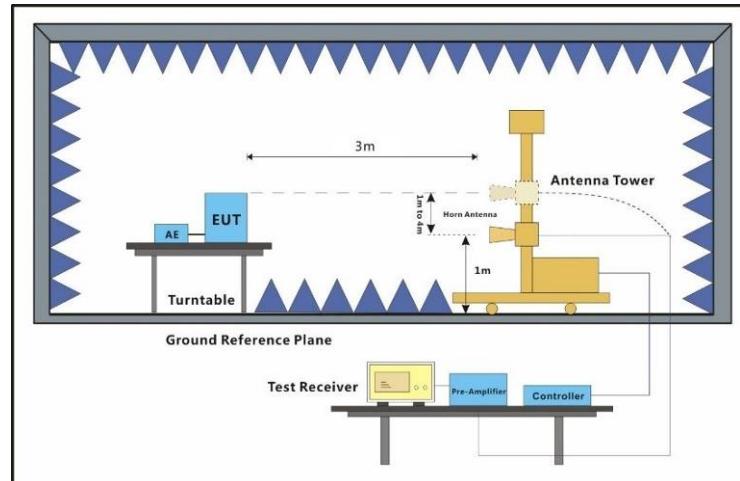
Operating Environment:

Temperature: 22.3 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Mode	Final test Code	Description
	Final test 00	TX mode_Keep the EUT in transmitting with modulation mode.

7.4.3 Test Setup Diagram



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No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663

中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn

t (86-20) 82155555 sgs.china@sgs.com

7.4.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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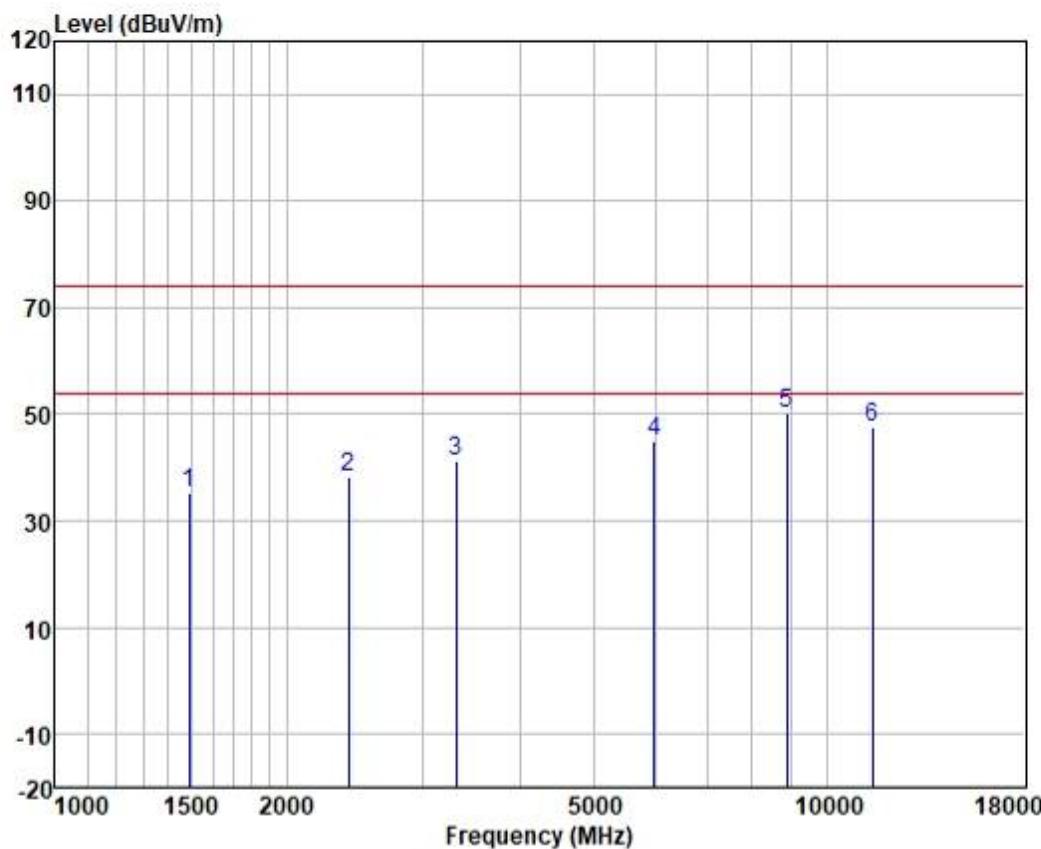


SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EEC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

Test Mode: 00; Polarity: Vertical



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Line Pol/Phase	Remark
	Freq	Level Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 1490.142	46.54	24.42	2.70	38.33	35.33	74.00	-38.67	VERTICAL	Peak	
2 2400.753	44.92	27.71	3.45	37.77	38.31	74.00	-35.69	VERTICAL	Peak	
3 3308.894	45.96	28.93	4.01	37.57	41.33	74.00	-32.67	VERTICAL	Peak	
4 5984.305	44.04	32.70	5.43	37.10	45.07	74.00	-28.93	VERTICAL	Peak	
5 8891.725	43.37	37.41	6.55	37.16	50.17	74.00	-23.83	VERTICAL	Peak	
6 11467.000	36.79	40.26	7.62	36.93	47.74	74.00	-26.26	VERTICAL	Peak	

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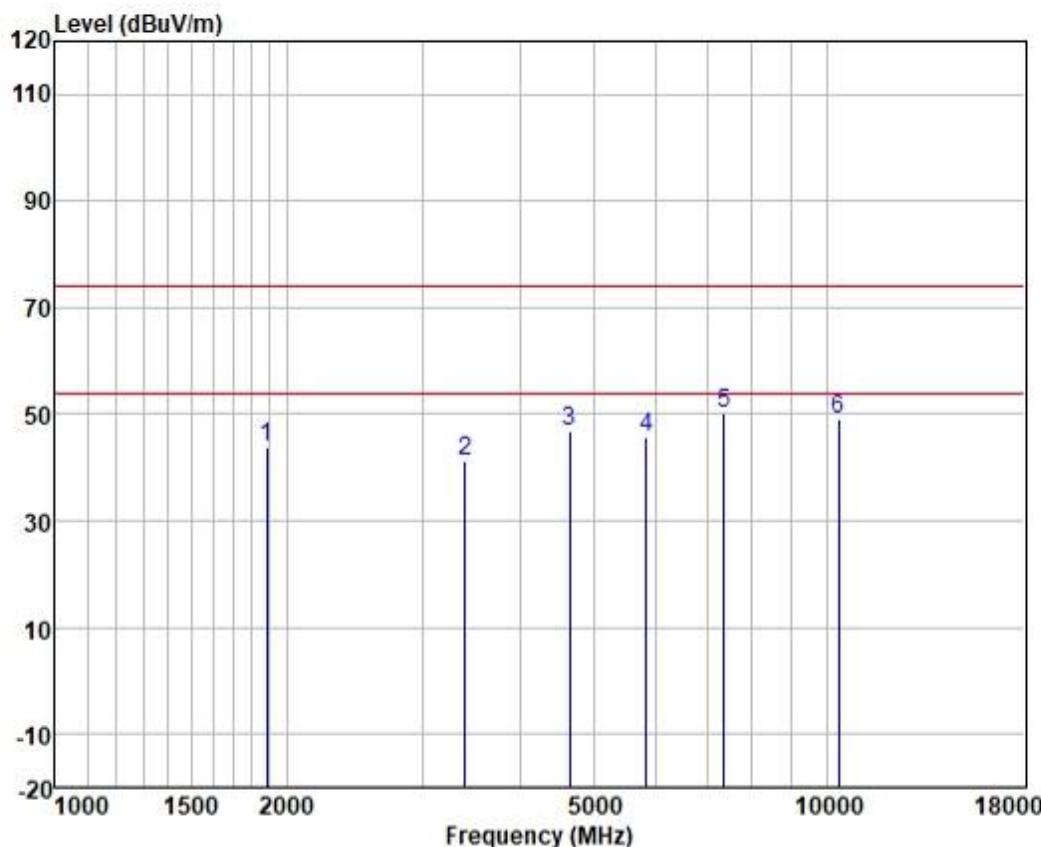
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Test Mode: 00; Polarity: Horizontal



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Freq	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 1883.236	52.55	26.15	3.07	37.87	43.90	74.00	-30.10	HORIZONTAL Peak
2 3396.098	45.71	28.99	4.06	37.56	41.20	74.00	-32.80	HORIZONTAL Peak
3 4640.339	45.54	34.17	4.69	37.42	46.98	74.00	-27.02	HORIZONTAL Peak
4 5847.517	44.72	32.68	5.37	37.11	45.66	74.00	-28.34	HORIZONTAL Peak
5 7368.741	45.07	36.18	6.00	37.18	50.07	74.00	-23.93	HORIZONTAL Peak
6 10363.710	39.41	39.64	7.25	37.08	49.22	74.00	-24.78	HORIZONTAL Peak

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7.5 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215

Test Method: ANSI C63.10 (2013) Section 6.9

7.5.1 E.U.T. Operation

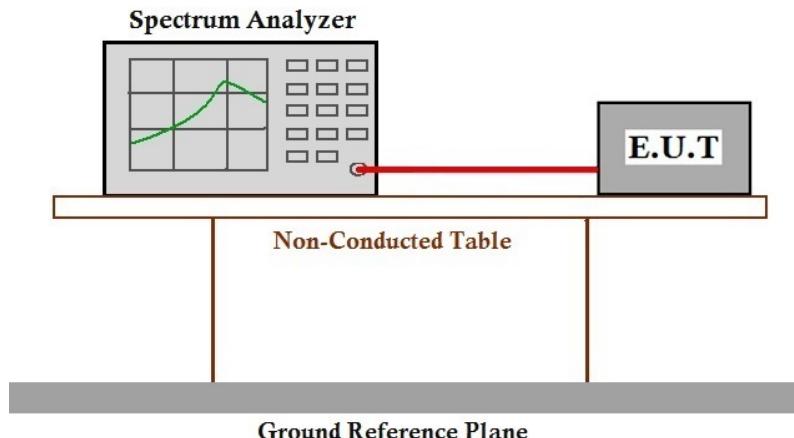
Operating Environment:

Temperature: 21.8 °C Humidity: 56.8 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode_Keep the EUT in transmitting with modulation mode.

7.5.3 Test Setup Diagram



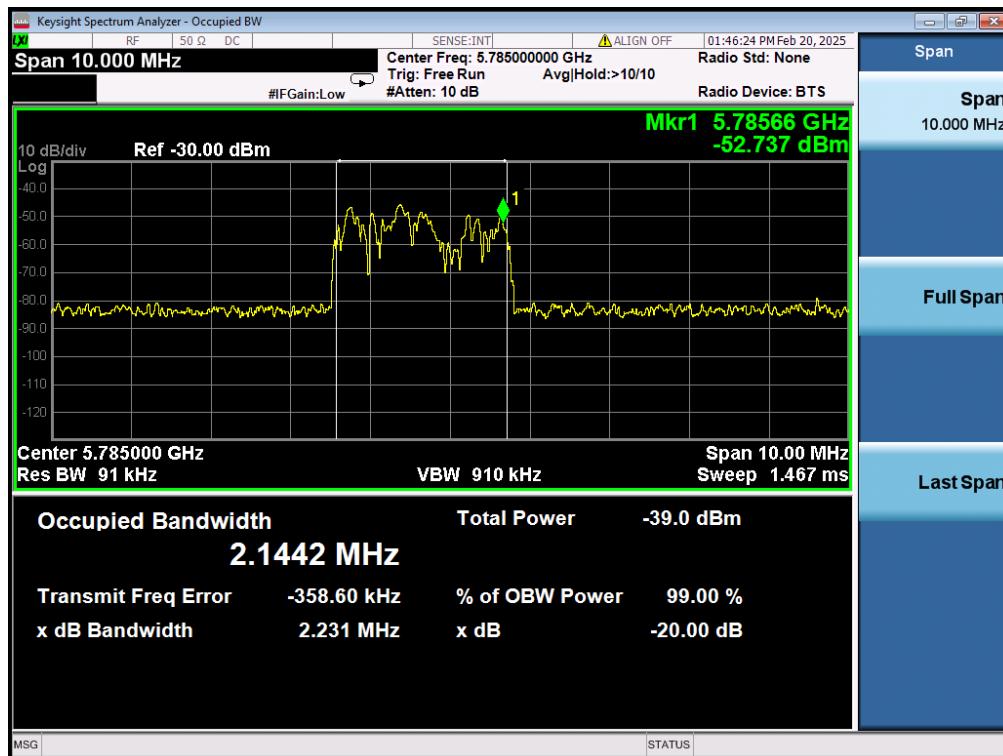
7.5.4 Measurement Procedure and Data



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Test mode: 00



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8 Test Setup Photo

Refer to Test Setup Photo for GZCR250200017902



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SGS-CSI Standards Technical Services Co., Ltd
No.198, Kezhi Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
t (86-20) 82155555 www.sgsgroup.com.cn

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2502000179HS

- End of the Report -



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