




TEST REPORT

Application No.: GZCR2108020916AT
Applicant: dormakaba Canada Inc.
Address of Applicant: 65 Struck Court, Cambridge, Ontario, N1R 8L2, Canada
Manufacturer: Shenzhen Winfor Canbo Technology Co., Ltd.
Address of Manufacturer: 7F, Building D, 7#, East Area, Shangxue Industrial Zone, Xuexiang community, Bantian street, Longgang district, Shenzhen City
Factory: Shenzhen Winfor Canbo Technology Co., Ltd.
Address of Factory: 7F, Building D, 7#, East Area, Shangxue Industrial Zone, Xuexiang community, Bantian street, Longgang district, Shenzhen City
Equipment Under Test (EUT):
EUT Name: Wireless Battery Powered Touchless Switch
Model No.: 912-WBT, 912N-WBT, 912-WBT-HC, 912N-WBT-HC, 912GL-WBT, 912GL-WBT-HC ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: 
Standard(s) : 47 CFR Part 15, Subpart C 15.249
Date of Receipt: 2021-09-17
Date of Test: 2021-09-17 to 2021-09-17
Date of Issue: 2021-09-18

| | |
|---------------------|--------------|
| Test Result: | Pass* |
|---------------------|--------------|

* In the configuration tested, the EUT complied with the standards specified above.



Kobe Jian

EMC Laboratory Manager



Unless otherwise agreed in writing, 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.aspx> 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.aspx>. 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 Co., Ltd. No.198 Kexhu Road, Solentech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.ssgsgroup.com.cn
Guangzhou Branch Testing Service EMC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2021-09-18 | | Original |
| | | | | |
| | | | | |

| | | | | |
|--------------------------|--|---|--|--|
| Authorized for issue by: | | | | |
| | |  | | |
| | | Curry Wu/Project Engineer | | |
| | |  | | |
| | | Ricky Liu/Reviewer | | |

2 Test Summary

| 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&6.6 | 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d) | Pass |
| Radiated Emissions (above 1GHz) | | ANSI C63.10 (2013) Section 6.4&6.5&6.6 | 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d) | 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.

Remark:

Model No.: 912-WBT, 912N-WBT, 912-WBT-HC, 912N-WBT-HC, 912GL-WBT, 912GL-WBT-HC

Only the model 912-WBT tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on appearance, color, Icon, power input, model number, shell material, dimensions and labeling.

This test report (Ref. No.: GZCR210802091601) is only valid with the original test report (Ref. No.: PTC20110403001E-FC01).

Compared with the original report, this report just reduced the transmitter power, channel frequency increased to 2465MHz by software without any hardware changes and added the information of factory.

Considering to the difference, Radiated Emissions(30MHz-1GHz), Field Strength of the Fundamental, Radiated Emissions(Above 1GHz) and Restricted Band Around Fundamental Frequency were performed on the sample in this report to find the items which can be influential to the result in the original test report, and shown the data in this report, other tests please refer to original report (Report No.: PTC20110403001E-FC01).



Unless otherwise agreed in writing, 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.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/terms-and-conditions/Terms-e-Documents.aspx>. 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 Co., Ltd.
Guangzhou Branch Testing Laboratory

No.198 Kezhu Road, Sciotech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

3 Contents

| | Page |
|--|-----------|
| 1 Cover Page | 1 |
| 2 Test Summary | 3 |
| 3 Contents | 4 |
| 4 General Information | 5 |
| 4.1 Details of E.U.T. | 5 |
| 4.2 Description of Support Units | 6 |
| 4.3 Measurement Uncertainty | 6 |
| 4.4 Test Location | 7 |
| 4.5 Test Facility | 7 |
| 4.6 Deviation from Standards | 8 |
| 4.7 Abnormalities from Standard Conditions | 8 |
| 5 Equipment List | 9 |
| 6 Radio Spectrum Matter Test Results | 11 |
| 6.1 Field Strength of the Fundamental Signal (15.249(a)) | 11 |
| 6.1.1 E.U.T. Operation | 11 |
| 6.1.2 Test Mode Description | 11 |
| 6.1.3 Test Setup Diagram | 11 |
| 6.1.4 Measurement Procedure and Data | 12 |
| 6.2 Restricted Band Around Fundamental Frequency | 19 |
| 6.2.1 E.U.T. Operation | 19 |
| 6.2.2 Test Mode Description | 19 |
| 6.2.3 Test Setup Diagram | 19 |
| 6.2.4 Measurement Procedure and Data | 20 |
| 6.3 Radiated Emissions (below 1GHz) | 25 |
| 6.3.1 E.U.T. Operation | 25 |
| 6.3.2 Test Mode Description | 25 |
| 6.3.3 Test Setup Diagram | 25 |
| 6.3.4 Measurement Procedure and Data | 26 |
| 6.4 Radiated Emissions (above 1GHz) | 29 |
| 6.4.1 E.U.T. Operation | 29 |
| 6.4.2 Test Mode Description | 29 |
| 6.4.3 Test Setup Diagram | 29 |
| 6.4.4 Measurement Procedure and Data | 30 |
| 7 Test Setup Photo | 37 |
| 8 EUT Constructional Details (EUT Photos) | 38 |



Unless otherwise agreed in writing, 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.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

4 General Information

4.1 Details of E.U.T.

Power supply: Powered by DC6V(4 * DC1.5V *AA*batteries)
Operation Frequency: 2412-2465MHz
Modulation Type: GFSK
Number of Channels: 54
Antenna Type: Integral Antenna
Antenna Gain: 0dBi

Channel List:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 01 | 2412 | 19 | 2430 | 37 | 2448 |
| 02 | 2413 | 20 | 2431 | 38 | 2449 |
| 03 | 2414 | 21 | 2432 | 39 | 2450 |
| 04 | 2415 | 22 | 2433 | 40 | 2451 |
| 05 | 2416 | 23 | 2434 | 41 | 2452 |
| 06 | 2417 | 24 | 2435 | 42 | 2453 |
| 07 | 2418 | 25 | 2436 | 43 | 2454 |
| 08 | 2419 | 26 | 2437 | 44 | 2455 |
| 09 | 2420 | 27 | 2438 | 45 | 2456 |
| 10 | 2421 | 28 | 2439 | 46 | 2457 |
| 11 | 2422 | 29 | 2440 | 47 | 2458 |
| 12 | 2423 | 30 | 2441 | 48 | 2459 |
| 13 | 2424 | 31 | 2442 | 49 | 2460 |
| 14 | 2425 | 32 | 2443 | 50 | 2461 |
| 15 | 2426 | 33 | 2444 | 51 | 2462 |
| 16 | 2427 | 34 | 2445 | 52 | 2463 |
| 17 | 2428 | 35 | 2446 | 53 | 2464 |
| 18 | 2429 | 36 | 2447 | 54 | 2465 |

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)) | $\pm 4.5\text{dB}$ (Below 1GHz); $\pm 4.8\text{dB}$ (Above 1GHz) |
| Restricted Band Around Fundamental Frequency | $\pm 4.5\text{dB}$ (Below 1GHz); $\pm 4.8\text{dB}$ (Above 1GHz) |
| Radiated Emissions (below 1GHz) | 5.06dB (30MHz-1GHz ; 3m) 4.46dB (30MHz-1GHz ; 10m) |
| Radiated Emissions (above 1GHz) | 5.08dB (1GHz-6GHz); 5.14dB (above 6GHz) |
| Remark: The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR 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. | |

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **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.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **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.



Unless otherwise agreed in writing, 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.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/terms-and-conditions/Terms-e-Documents.aspx>. 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

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



Unless otherwise agreed in writing, 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.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

5 Equipment List

| Field Strength of the Fundamental Signal (15.249(a)) | | | | | |
|--|--------------------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Chamber cable (Above 1GHz) | Scoflex | KMKM-8.0m | EMC0545 | 2020/9/9 | 2022-09-08 |
| Horn Antenna(1GHz-18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2019-09-25 | 2022-09-24 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-01-08 | 2022-01-07 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-20 | 2023-12-19 |
| EXA Signal Analyzer(10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| Signal Analyzer (20Hz-26.5GHz) | Rohde & Schwarz | FISQ 26 | EMC0069 | 2020/11/13 | 2021-11-12 |

| Restricted Band Around Fundamental Frequency | | | | | |
|--|--------------------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EMI Test Receiver(20Hz-26.5GHz) | Rohde & Schwarz | ESIB26 | EMC0522 | 2021-01-08 | 2022-01-07 |
| Chamber cable(Above 1GHz) | Scoflex | KMKM-8.0m | EMC0545 | 2020-09-09 | 2022-09-08 |
| Horn Antenna(1GHz-18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2019-09-25 | 2022-09-24 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-01-08 | 2022-01-07 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-20 | 2023-12-19 |
| EXA Signal Analyzer(10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |

| Radiated Emissions (below 1GHz) | | | | | |
|---|--------------------------------|-----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2020-09-09 | 2022-09-08 |
| Trilog Broadband Antenna(25MHz-1GHz)- Lab | SCHWARZBECK MESS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 |
| Amplifier(9kHz-1.3GHz) | HP | 8447F | EMC2065 | 2021-05-19 | 2022-05-18 |
| Active Loop Antenna- RED | ETS-Lindgren | 6502 | EMC2190 | 2019-12-27 | 2021-12-26 |



| | | | | | |
|-----------------------------|-----------------|---------------|-----------|------------|------------|
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2019-10-20 | 2022-10-19 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| EMI Test Receiver(1Hz-8GHz) | Rohde & Schwarz | ESW8 | EMC2220 | 2021-05-26 | 2022-05-25 |

Radiated Emissions (above 1GHz)

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|---------------------------------|--------------------------------|---------------|--------------|------------|--------------|
| Chamber cable(Above 1GHz) | Scoflex | KMKM-8.0m | EMC0545 | 2020-09-09 | 2022-09-08 |
| Horn Antenna(1GHz-18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2019-09-25 | 2022-09-24 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-01-08 | 2022-01-07 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2021-01-08 | 2022-01-07 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-20 | 2023-12-19 |
| MXE EMI Receiver(10Hz-8.4GHz) | Keysight | N9038A | EMC2139 | 2020-11-13 | 2021-11-12 |
| EXA Signal Analyzer(10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2021-09-16 | 2022-09-15 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |

General used equipment

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|-----------|--------------|----------|--------------|------------|--------------|
| DMM | Fluke | 73 | EMC0006 | 2021-07-05 | 2022-07-05 |
| DMM | Fluke | 73 | EMC0007 | 2021-07-05 | 2022-07-05 |



Unless otherwise agreed in writing, 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.aspx> 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.aspx>. 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

6 Radio Spectrum Matter Test Results

6.1 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

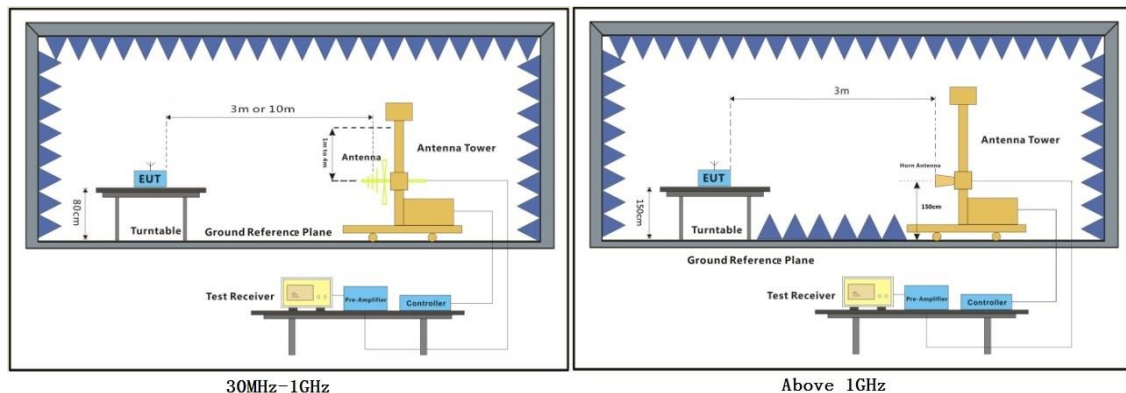
6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 24.3 °C Humidity: 50.3 % RH Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

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

6.1.3 Test Setup Diagram



6.1.4 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 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

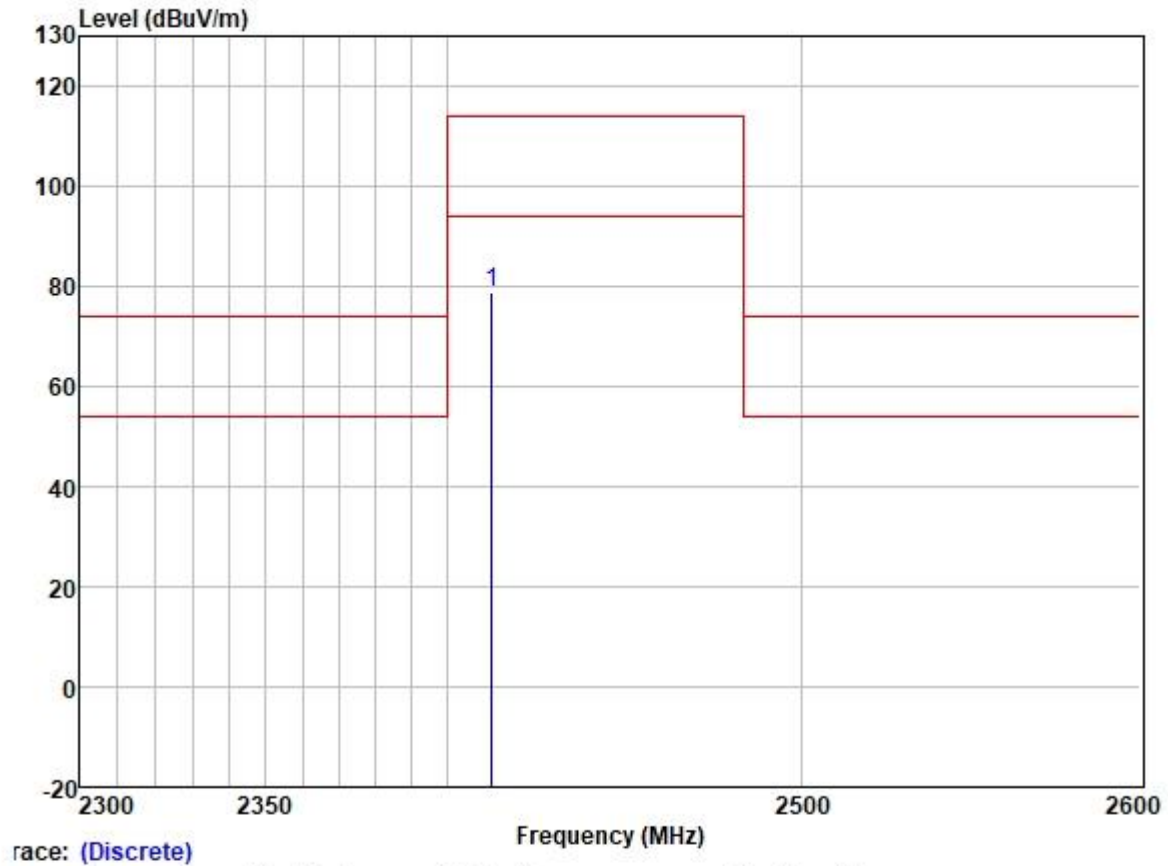
Remark 2: Antenna: 3 denotes the type of antenna for above 1000MHz.



Unless otherwise agreed in writing, 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.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.

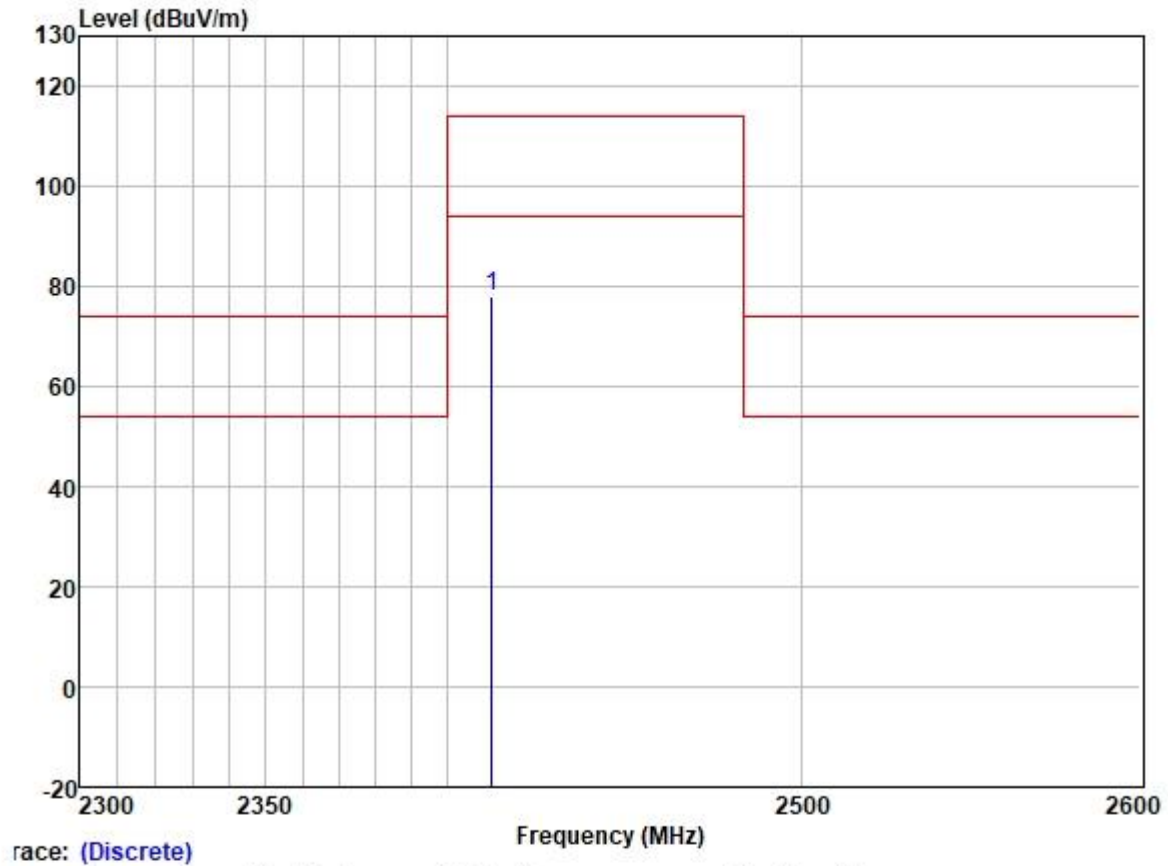
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



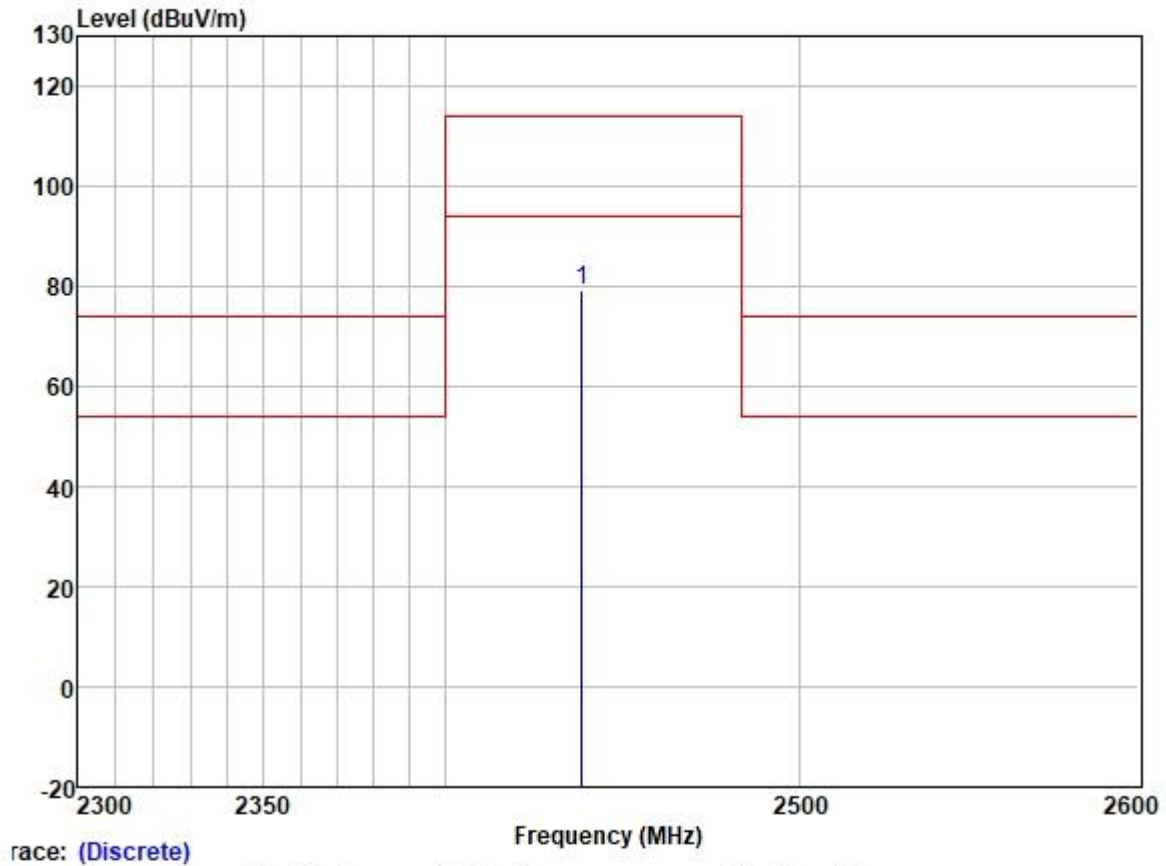
| | ReadAntenna | Cable | Preamp | | Limit | Over | | |
|------|-------------|--------|--------|--------|--------|--------|--------|------------------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | Remark |
| 1 | 2412.000 | 85.63 | 27.38 | 3.47 | 37.59 | 78.89 | 114.00 | -35.11 HORIZONTAL Peak |

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



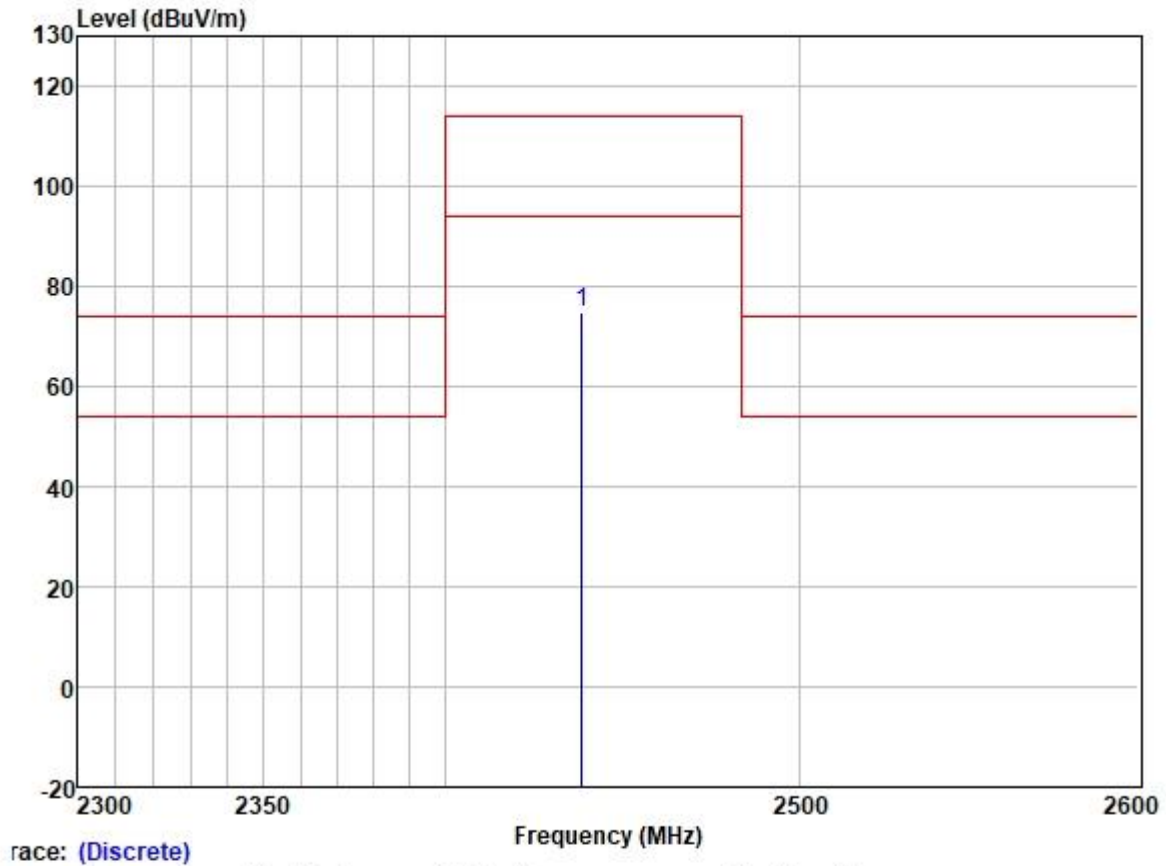
| | Freq | ReadAntenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
| | | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2412.000 | 84.69 | 27.38 | 3.47 | 37.59 | 77.95 | 114.00 | -36.05 | VERTICAL | Peak |

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



| | ReadAntenna | Cable | Preamp | | Limit | Over | | |
|------|-------------|--------|--------|--------|--------|--------|--------|------------------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | Remark |
| 1 | 2438.000 | 85.83 | 27.41 | 3.42 | 37.58 | 79.08 | 114.00 | -34.92 HORIZONTAL Peak |

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:middle



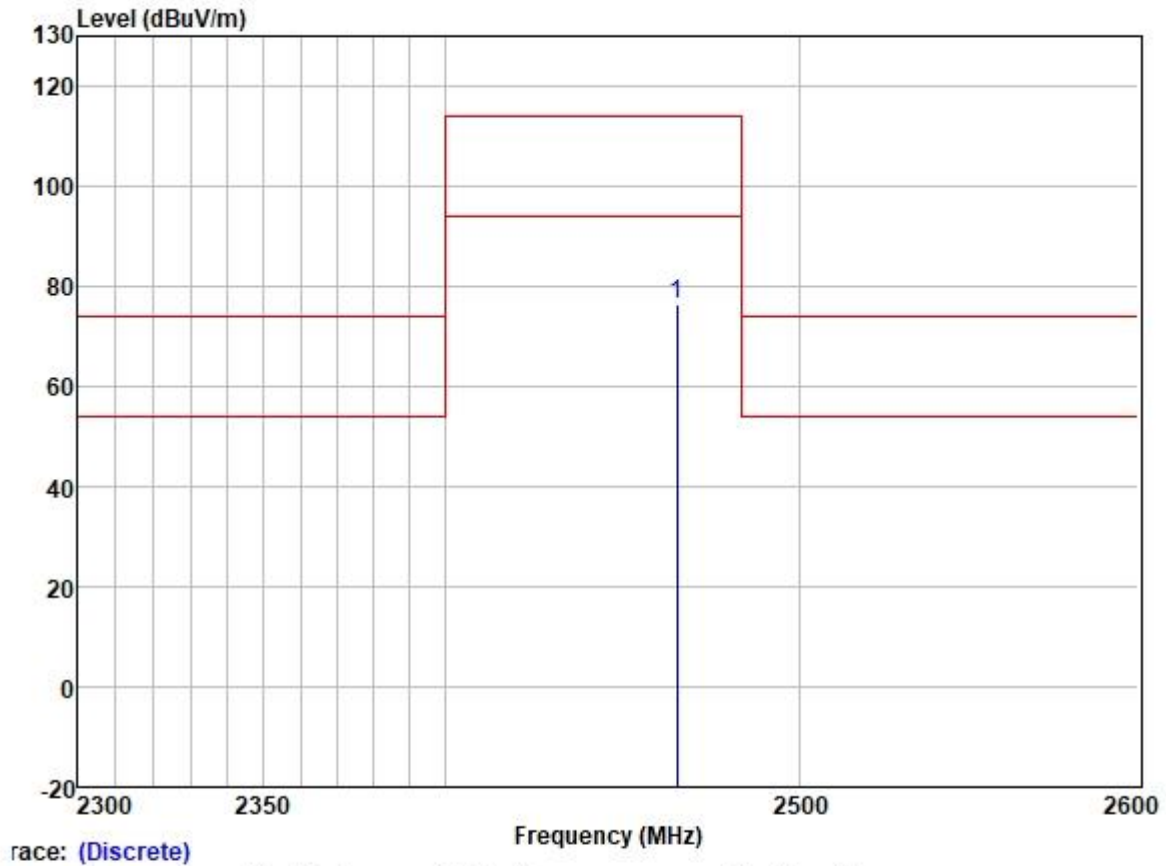
| | ReadAntenna | Cable | Preamp | | Limit | Over | | |
|------|-------------|--------|--------|--------|--------|--------|--------|-----------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | Remark |
| 1 | 2438.000 | 81.36 | 27.41 | 3.42 | 37.58 | 74.61 | 114.00 | -39.39 VERTICAL |



Unless otherwise agreed in writing, 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.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.

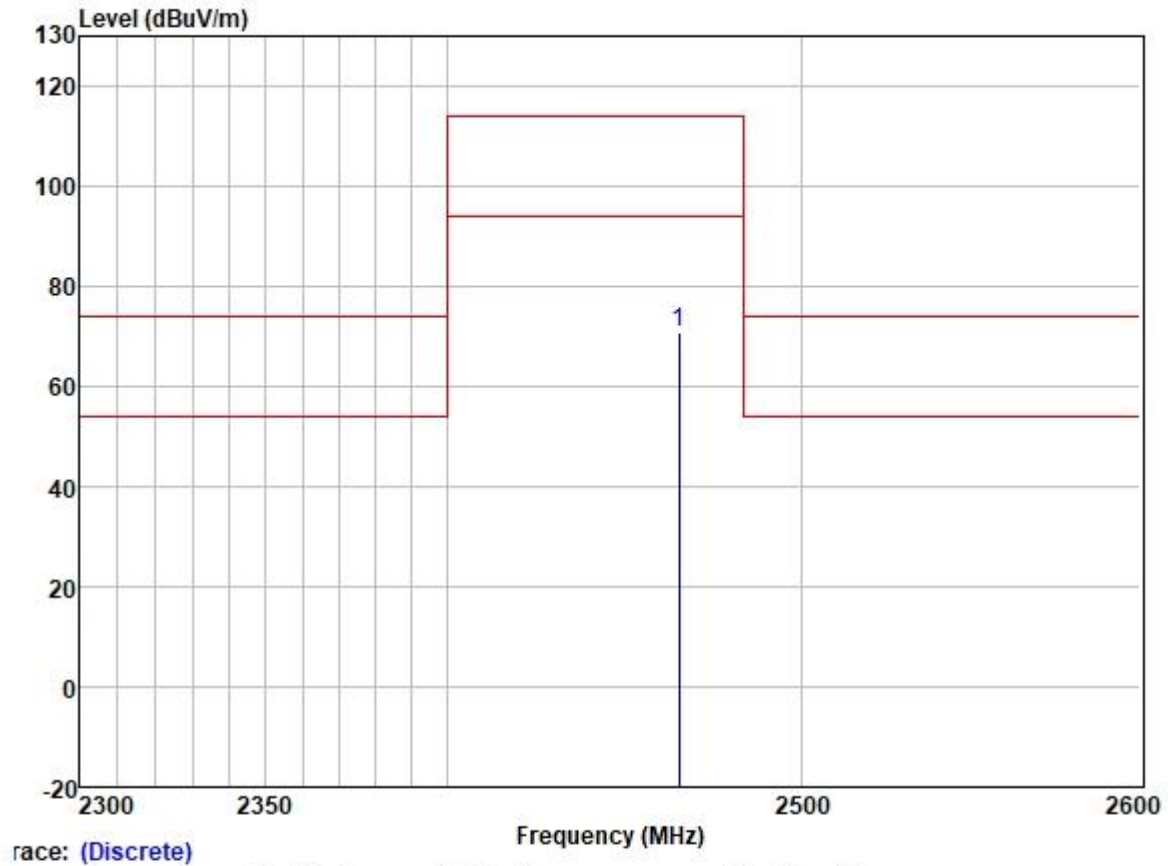
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



| | ReadAntenna | Cable | Preamp | | Limit | Over | | |
|------|-------------|--------|--------|--------|--------|--------|--------|------------------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | Remark |
| 1 | 2465.000 | 82.89 | 27.45 | 3.50 | 37.57 | 76.27 | 114.00 | -37.73 HORIZONTAL Peak |

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:High



| | Freq | ReadAntenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
| | | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2465.000 | 77.34 | 27.45 | 3.50 | 37.57 | 70.72 | 114.00 | -43.28 | VERTICAL | Peak |

6.2 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

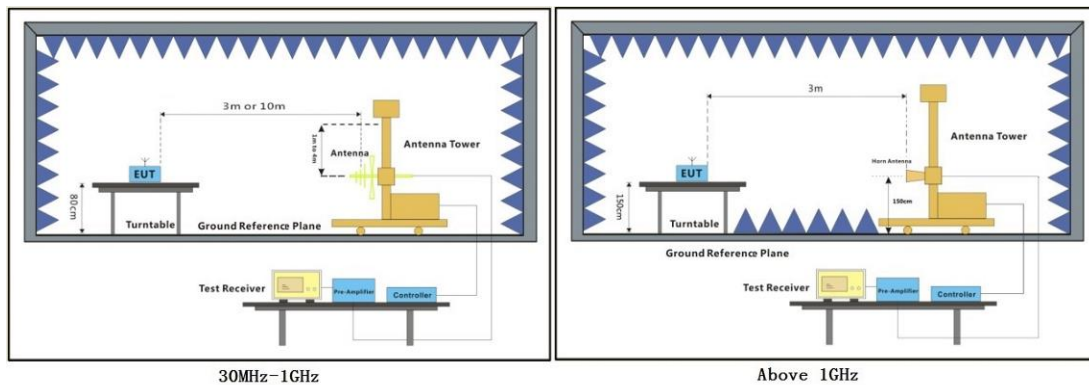
6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 24.4 °C Humidity: 50.2 % RH Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

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

6.2.3 Test Setup Diagram



6.2.4 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 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 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

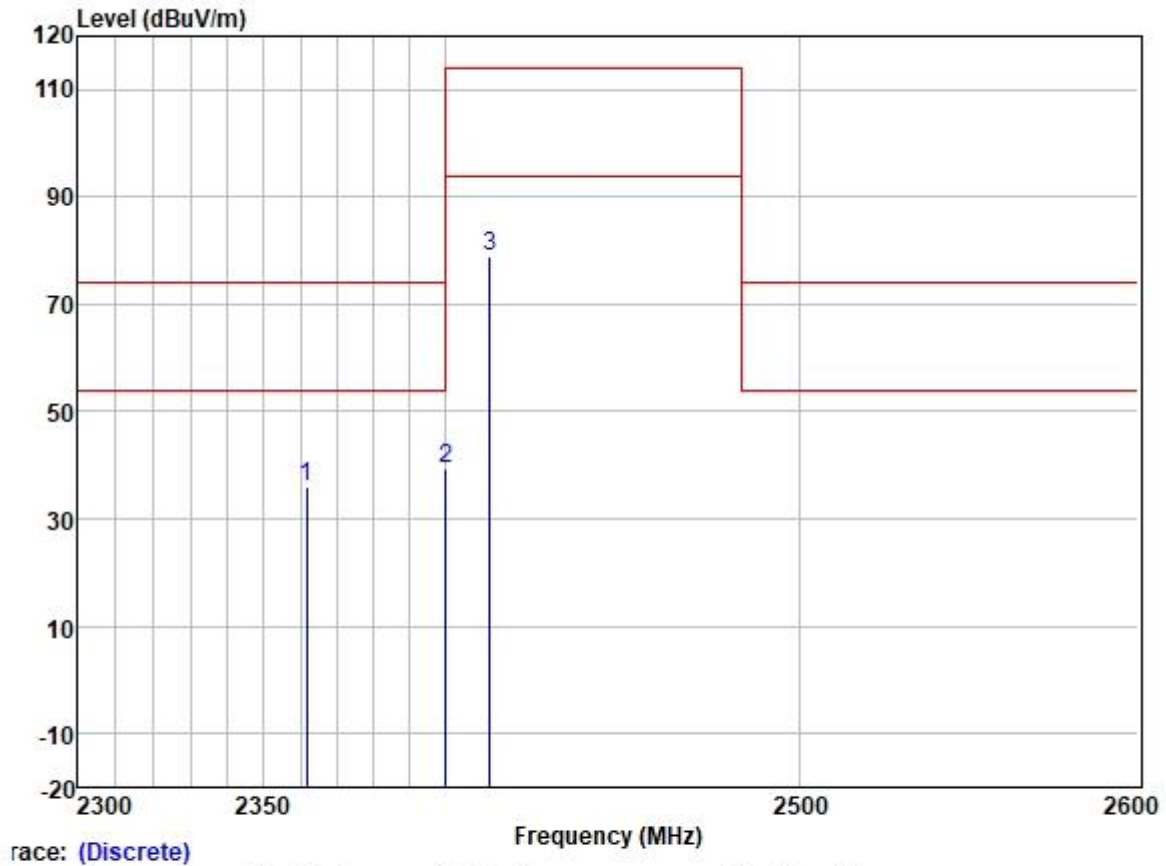
Remark 2: Antenna: 3 denotes the type of antenna for above 1000MHz.



Unless otherwise agreed in writing, 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.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.

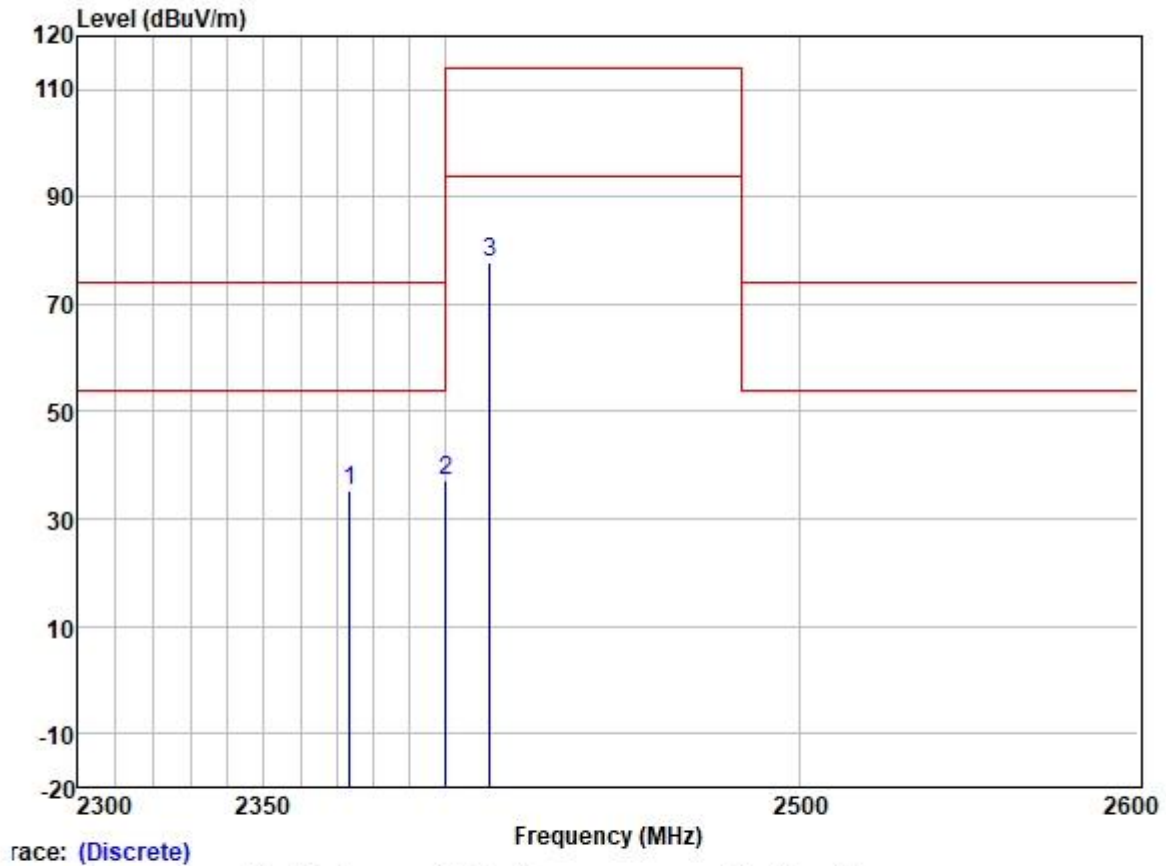
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



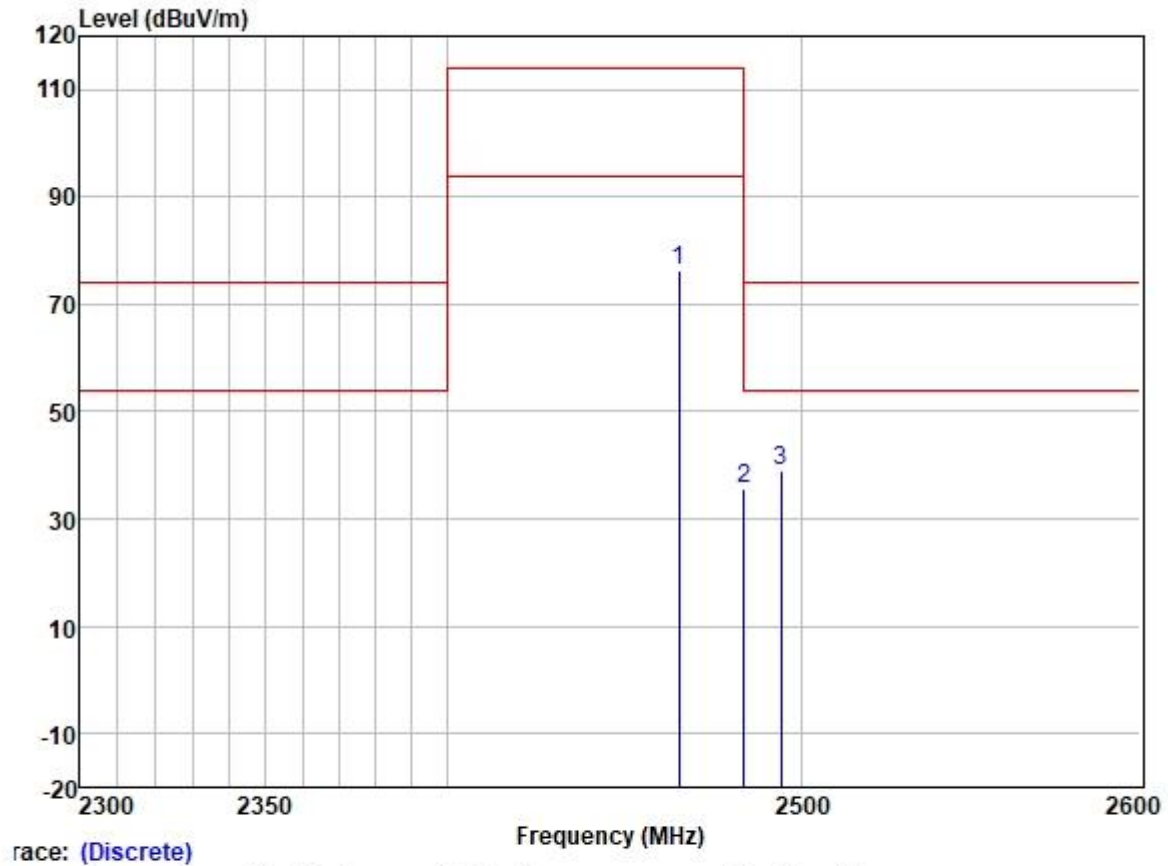
| | Freq | ReadAntenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
| | | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2361.502 | 43.08 | 27.27 | 3.42 | 37.61 | 36.16 | 74.00 | -37.84 | HORIZONTAL | Peak |
| 2 | 2400.000 | 45.94 | 27.35 | 3.50 | 37.59 | 39.20 | 74.00 | -34.80 | HORIZONTAL | Peak |
| 3 | 2412.000 | 85.63 | 27.38 | 3.47 | 37.59 | 78.89 | 114.00 | -35.11 | HORIZONTAL | Peak |

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



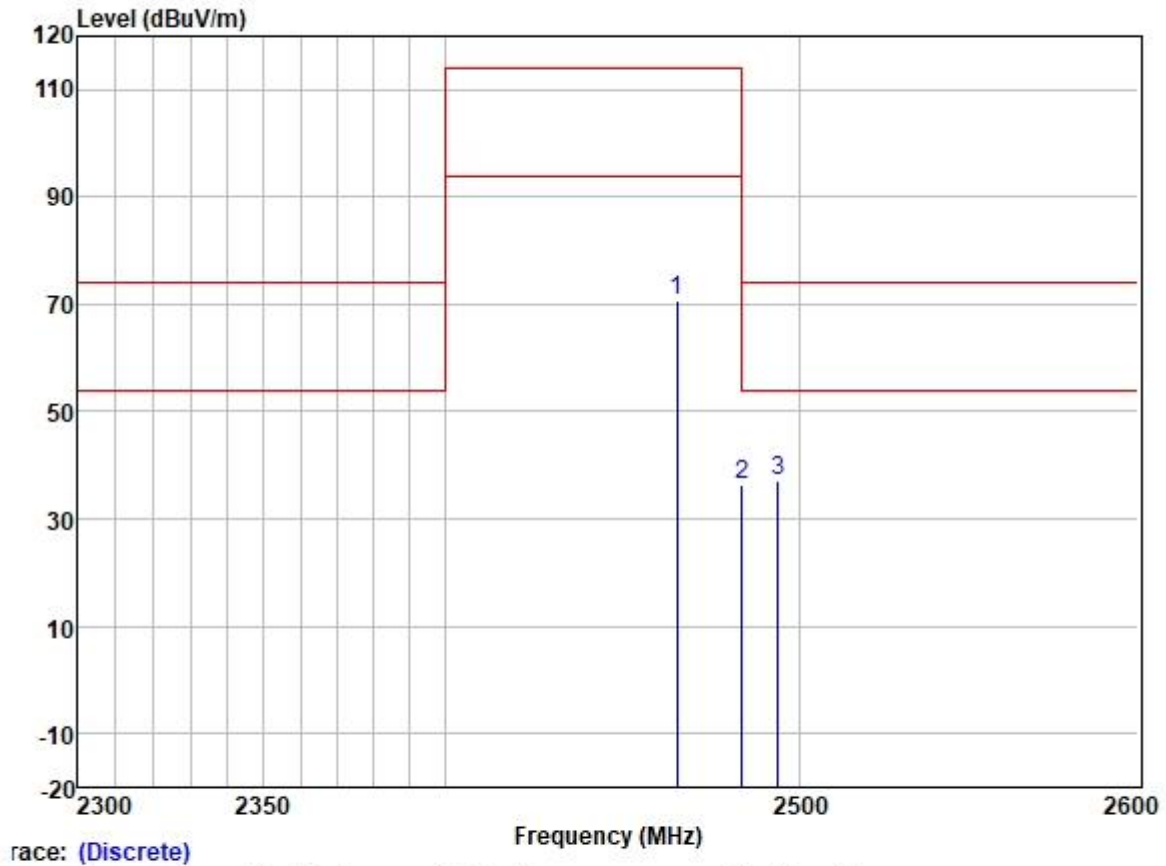
| | Freq | ReadAntenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
| | | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2373.397 | 41.95 | 27.30 | 3.45 | 37.60 | 35.10 | 74.00 | -38.90 | VERTICAL | Peak |
| 2 | 2400.000 | 44.01 | 27.35 | 3.50 | 37.59 | 37.27 | 74.00 | -36.73 | VERTICAL | Peak |
| 3 | 2412.000 | 84.69 | 27.38 | 3.47 | 37.59 | 77.95 | 114.00 | -36.05 | VERTICAL | Peak |

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



| | ReadAntenna | Cable | Preamp | | Limit | Over | | | |
|------|-------------|--------|--------|--------|--------|--------|--------|-----------|-----------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2465.000 | 82.89 | 27.45 | 3.50 | 37.57 | 76.27 | 114.00 | -37.73 | HORIZONTAL Peak |
| 2 | 2483.500 | 42.26 | 27.48 | 3.53 | 37.57 | 35.70 | 74.00 | -38.30 | HORIZONTAL Peak |
| 3 | 2494.160 | 45.46 | 27.49 | 3.47 | 37.56 | 38.86 | 74.00 | -35.14 | HORIZONTAL Peak |

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Trace: (Discrete)

| | Freq | ReadAntenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
| | | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2465.000 | 77.34 | 27.45 | 3.50 | 37.57 | 70.72 | 114.00 | -43.28 | VERTICAL | Peak |
| 2 | 2483.500 | 42.99 | 27.48 | 3.53 | 37.57 | 36.43 | 74.00 | -37.57 | VERTICAL | Peak |
| 3 | 2493.798 | 43.57 | 27.49 | 3.47 | 37.56 | 36.97 | 74.00 | -37.03 | VERTICAL | Peak |

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) 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. So, only the above measurement data were shown in the report

6.3 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&6.6

Limit:

| Frequency(MHz) | Field strength (microvolts/meter) | Limit (dBuV/m) | Detector | Measurement Distance (meters) |
|----------------|--------------------------------------|-------------------|----------|----------------------------------|
| 0.009-0.490 | 2400/F(kHz) | - | - | 300 |
| 0.490-1.705 | 24000/F(kHz) | - | - | 30 |
| 1.705-30 | 30 | - | - | 30 |
| 30-88 | 100 | 40.0 | QP | 3 |
| 88-216 | 150 | 43.5 | QP | 3 |
| 216-960 | 200 | 46.0 | QP | 3 |
| 960-1000 | 500 | 54.0 | QP | 3 |
| Above 1000 | 500 | 54.0 | AV | 3 |

6.3.1 E.U.T. Operation

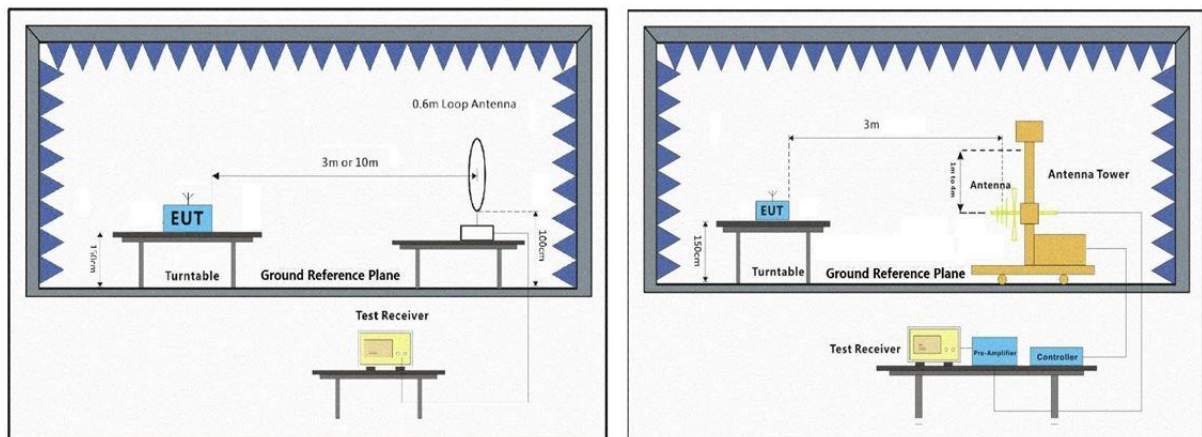
Operating Environment:

Temperature: 24.2 °C Humidity: 50.3 % RH Atmospheric Pressure: 1010 mbar

6.3.2 Test Mode Description

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

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

- a. 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. 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 peak, quasi-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.

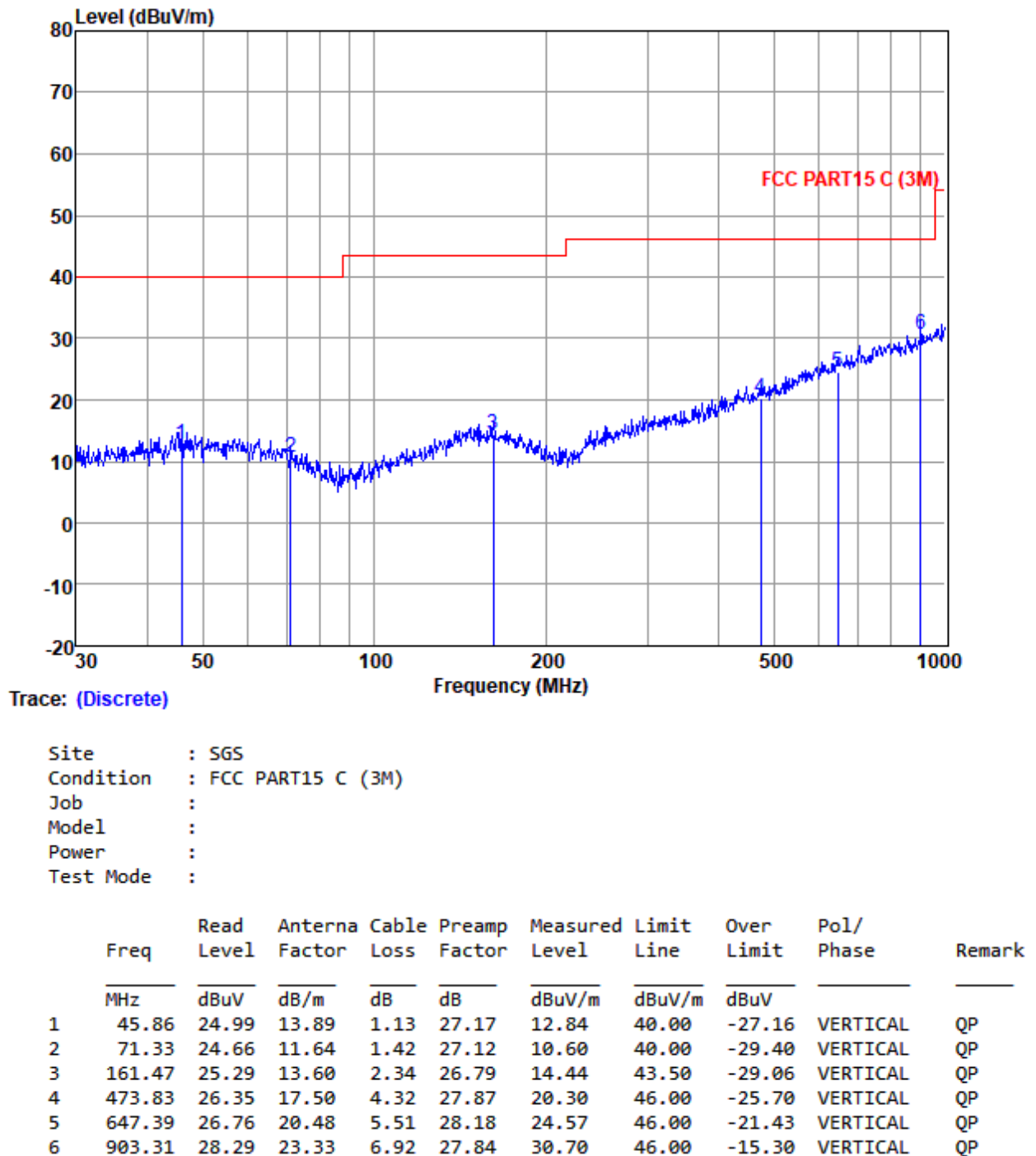
Remark:

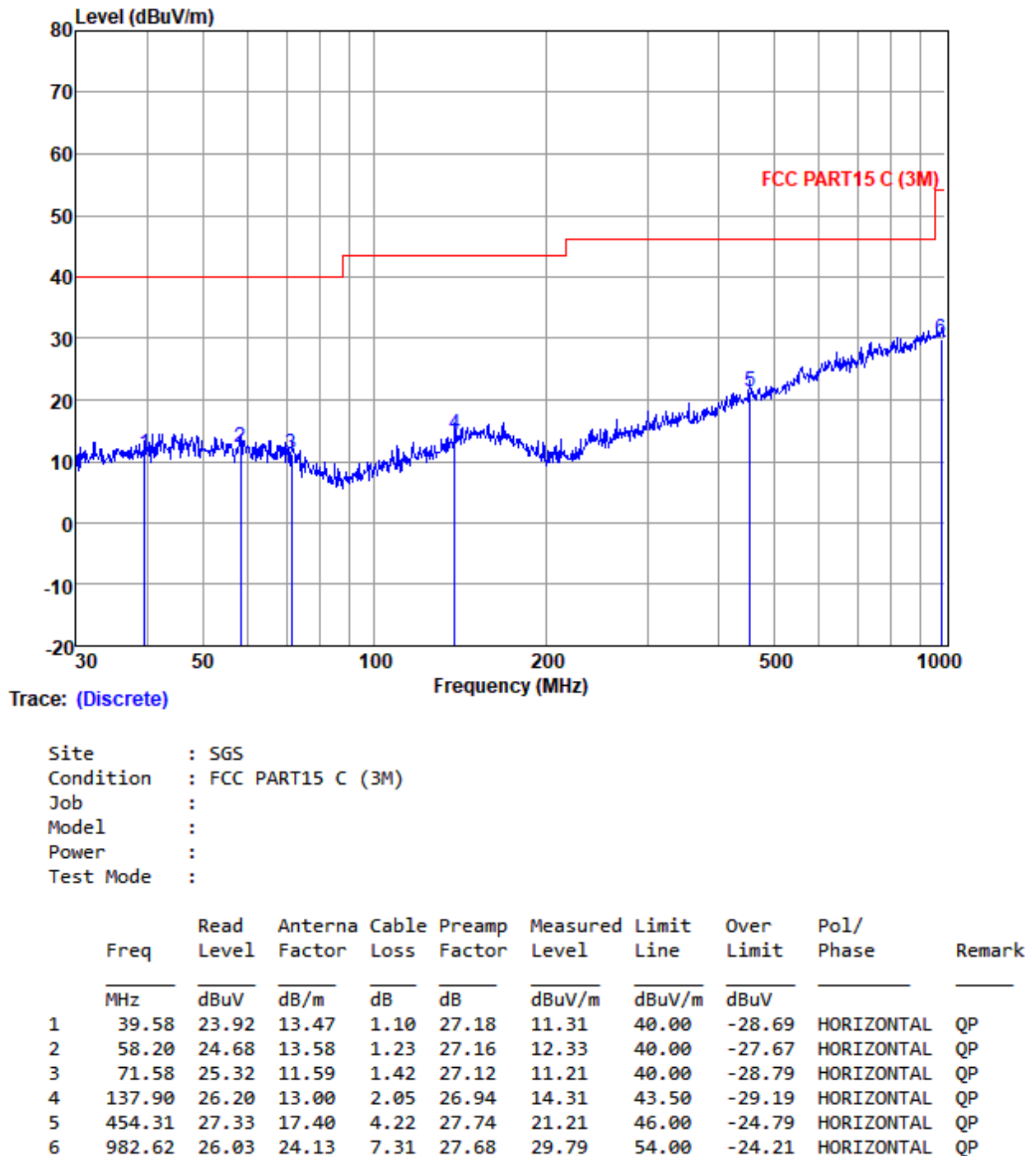
1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

3) Scan from 9kHz to 1 GHz, 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.





6.4 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 6.4&6.5&6.6

Limit:

| Frequency(MHz) | Field strength (microvolts/meter) | Limit (dBuV/m) | Detector | Measurement Distance (meters) |
|----------------|--------------------------------------|-------------------|----------|----------------------------------|
| 0.009-0.490 | 2400/F(kHz) | - | - | 300 |
| 0.490-1.705 | 24000/F(kHz) | - | - | 30 |
| 1.705-30 | 30 | - | - | 30 |
| 30-88 | 100 | 40.0 | QP | 3 |
| 88-216 | 150 | 43.5 | QP | 3 |
| 216-960 | 200 | 46.0 | QP | 3 |
| 960-1000 | 500 | 54.0 | QP | 3 |
| Above 1000 | 500 | 54.0 | AV | 3 |

6.4.1 E.U.T. Operation

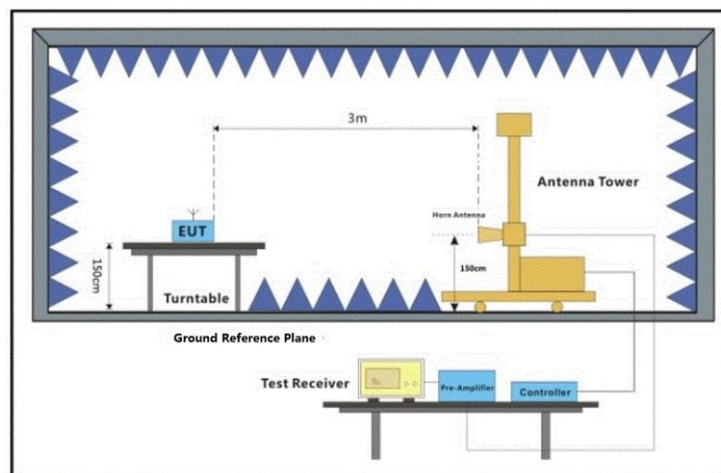
Operating Environment:

Temperature: 24.3 °C Humidity: 50.3 % RH Atmospheric Pressure: 1010 mbar

6.4.2 Test Mode Description

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

6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

- a. 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 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 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, quasi-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) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

2) Scan from 1GHz to 25GHz, 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.

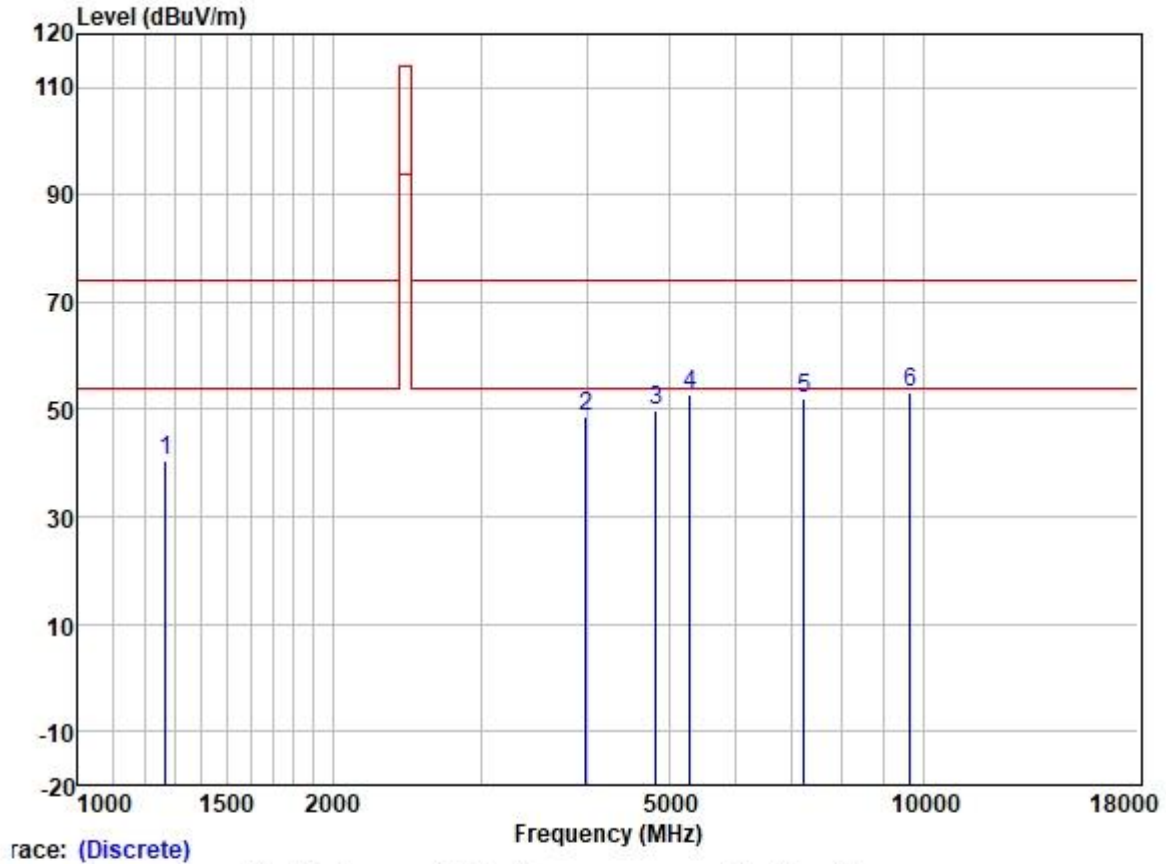
3) The field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



Unless otherwise agreed in writing, 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.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.

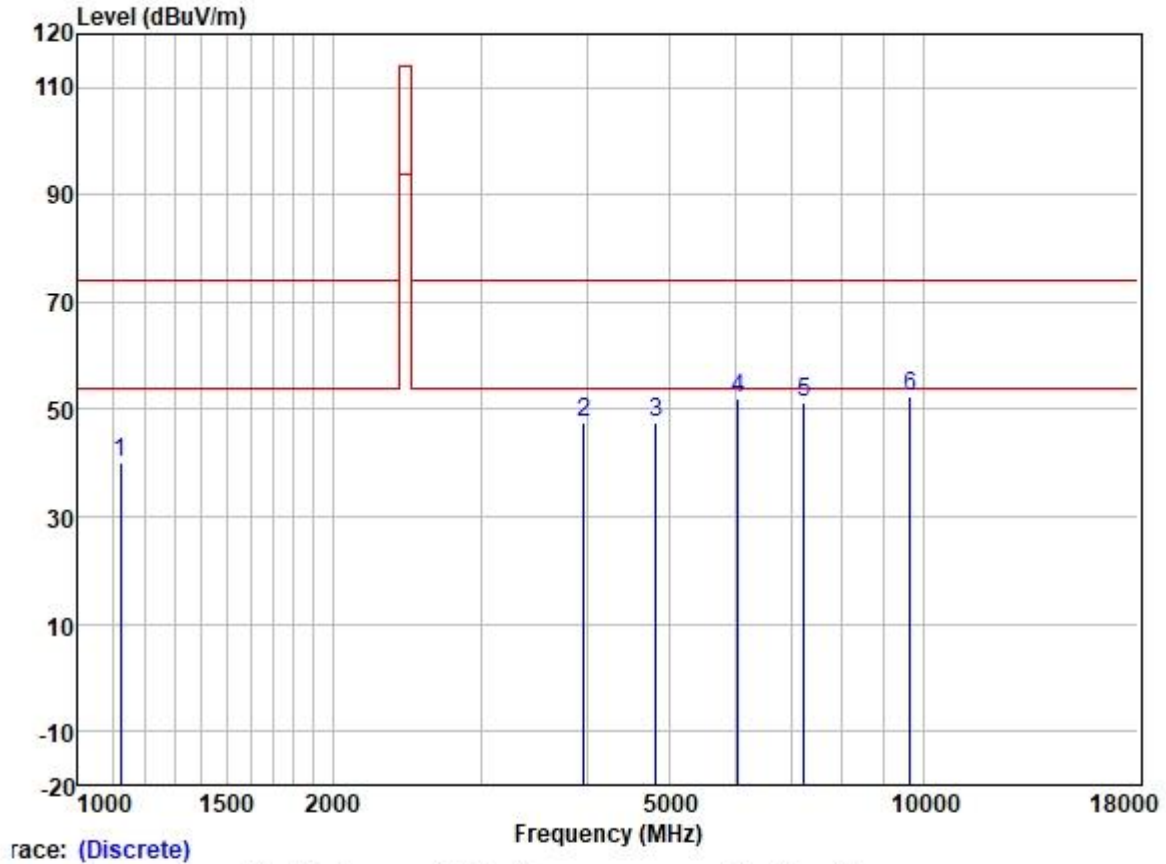
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



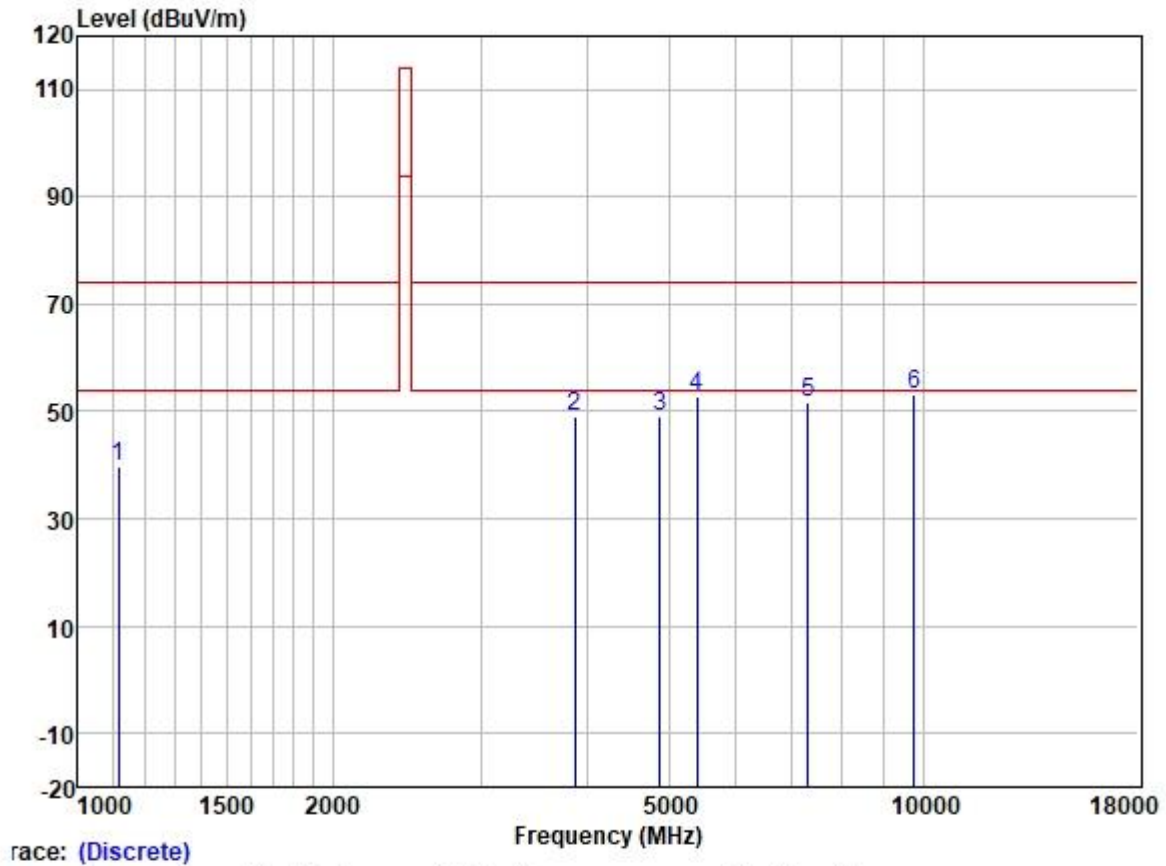
| | Freq | ReadAntenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
| | | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1269.856 | 51.13 | 25.11 | 2.46 | 38.33 | 40.37 | 74.00 | -33.63 | HORIZONTAL | Peak |
| 2 | 3990.537 | 50.97 | 29.79 | 4.60 | 36.80 | 48.56 | 74.00 | -25.44 | HORIZONTAL | Peak |
| 3 | 4824.000 | 49.89 | 31.45 | 5.42 | 36.83 | 49.93 | 74.00 | -24.07 | HORIZONTAL | Peak |
| 4 | 5300.318 | 51.86 | 31.76 | 6.10 | 36.87 | 52.85 | 74.00 | -21.15 | HORIZONTAL | Peak |
| 5 | 7236.000 | 47.74 | 35.70 | 6.03 | 37.39 | 52.08 | 74.00 | -21.92 | HORIZONTAL | Peak |
| 6 | 9648.000 | 45.13 | 38.40 | 7.06 | 37.42 | 53.17 | 74.00 | -20.83 | HORIZONTAL | Peak |

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



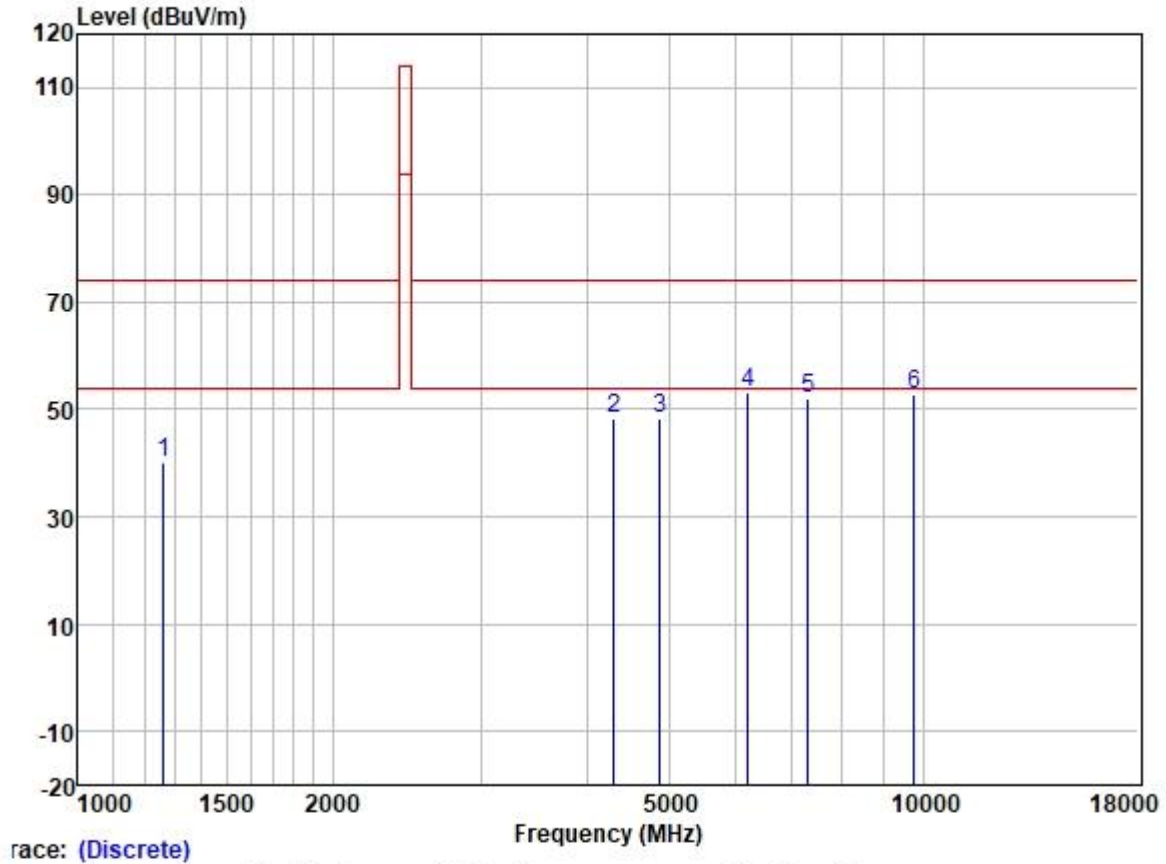
| | Freq | ReadAntenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
| | | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1123.699 | 52.07 | 24.42 | 2.22 | 38.43 | 40.28 | 74.00 | -33.72 | VERTICAL | Peak |
| 2 | 3968.149 | 50.16 | 29.77 | 4.60 | 36.81 | 47.72 | 74.00 | -26.28 | VERTICAL | Peak |
| 3 | 4824.000 | 47.65 | 31.45 | 5.42 | 36.83 | 47.69 | 74.00 | -26.31 | VERTICAL | Peak |
| 4 | 6040.807 | 50.34 | 32.48 | 6.18 | 36.91 | 52.09 | 74.00 | -21.91 | VERTICAL | Peak |
| 5 | 7236.000 | 46.82 | 35.70 | 6.03 | 37.39 | 51.16 | 74.00 | -22.84 | VERTICAL | Peak |
| 6 | 9648.000 | 44.38 | 38.40 | 7.06 | 37.42 | 52.42 | 74.00 | -21.58 | VERTICAL | Peak |

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



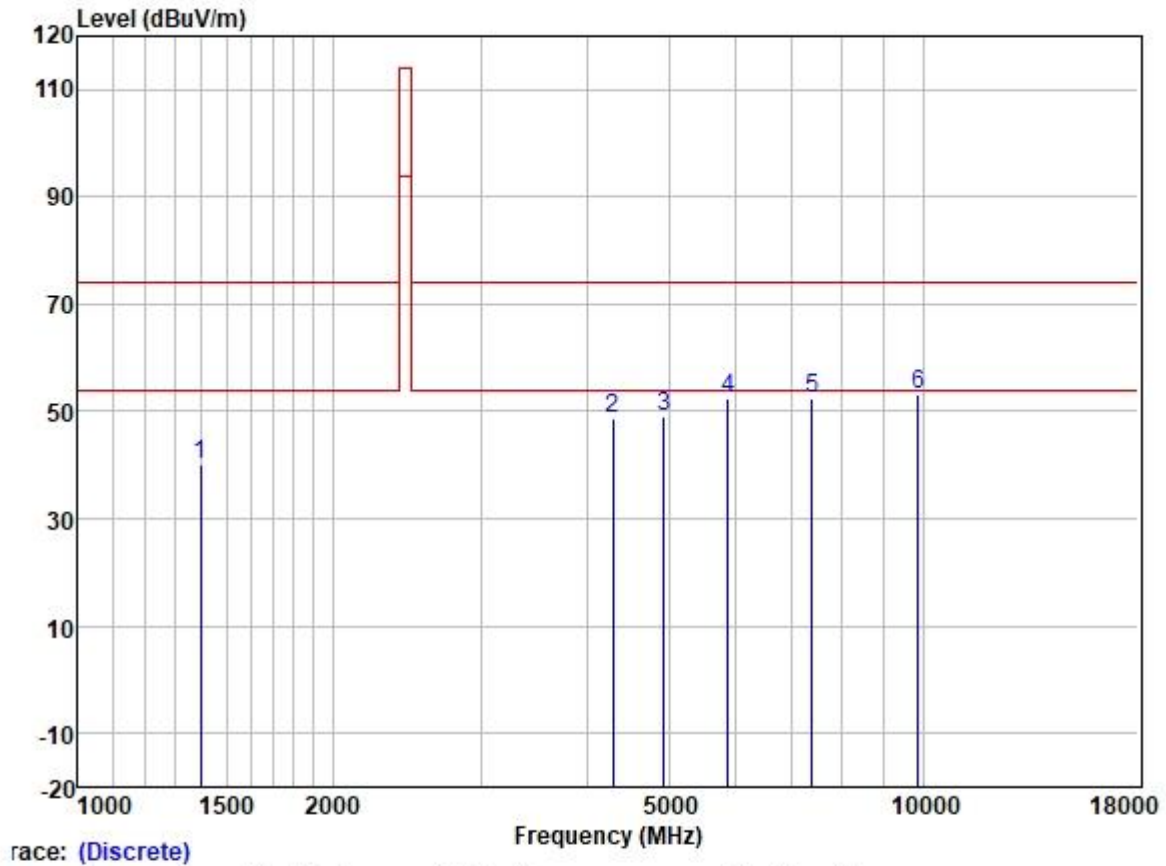
| | ReadAntenna | Cable | Preamp | Limit | Over | | | | |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|-----------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1117.609 | 51.57 | 24.40 | 2.25 | 38.43 | 39.79 | 74.00 | -34.21 | HORIZONTAL Peak |
| 2 | 3875.561 | 51.59 | 29.66 | 4.60 | 36.83 | 49.02 | 74.00 | -24.98 | HORIZONTAL Peak |
| 3 | 4876.000 | 48.99 | 31.54 | 5.50 | 36.84 | 49.19 | 74.00 | -24.81 | HORIZONTAL Peak |
| 4 | 5396.037 | 51.83 | 31.78 | 6.00 | 36.88 | 52.73 | 74.00 | -21.27 | HORIZONTAL Peak |
| 5 | 7314.000 | 47.06 | 35.93 | 6.11 | 37.43 | 51.67 | 74.00 | -22.33 | HORIZONTAL Peak |
| 6 | 9752.000 | 44.96 | 38.50 | 7.02 | 37.41 | 53.07 | 74.00 | -20.93 | HORIZONTAL Peak |

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:middle



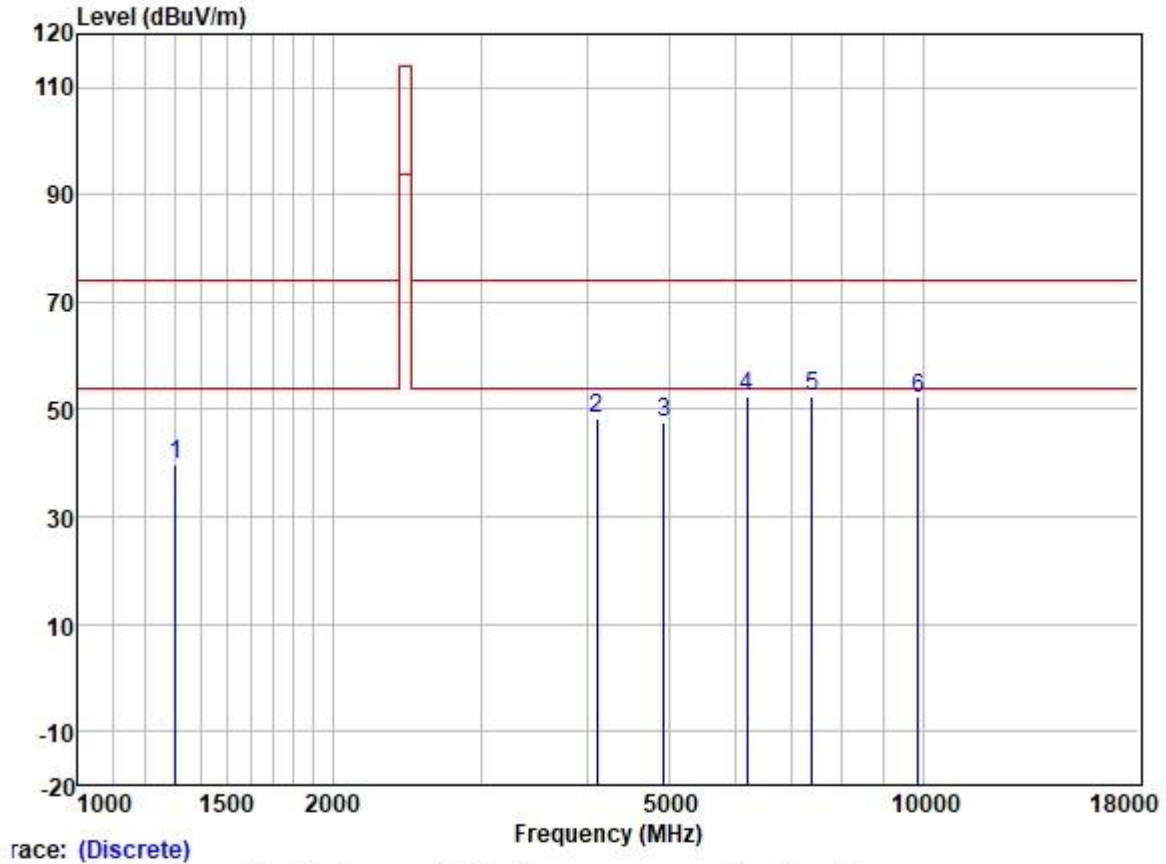
| | Freq | ReadAntenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
| | MHz | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1261.228 | 51.03 | 25.07 | 2.40 | 38.35 | 40.15 | 74.00 | -33.85 | VERTICAL | Peak |
| 2 | 4306.915 | 49.96 | 30.48 | 4.65 | 36.81 | 48.28 | 74.00 | -25.72 | VERTICAL | Peak |
| 3 | 4876.000 | 47.99 | 31.54 | 5.50 | 36.84 | 48.19 | 74.00 | -25.81 | VERTICAL | Peak |
| 4 | 6214.814 | 50.92 | 33.03 | 6.06 | 36.94 | 53.07 | 74.00 | -20.93 | VERTICAL | Peak |
| 5 | 7314.000 | 47.32 | 35.93 | 6.11 | 37.43 | 51.93 | 74.00 | -22.07 | VERTICAL | Peak |
| 6 | 9752.000 | 44.84 | 38.50 | 7.02 | 37.41 | 52.95 | 74.00 | -21.05 | VERTICAL | Peak |

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



| | Freq | ReadAntenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
| | MHz | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1396.165 | 50.46 | 25.38 | 2.60 | 38.22 | 40.22 | 74.00 | -33.78 | HORIZONTAL | Peak |
| 2 | 4292.229 | 50.26 | 30.45 | 4.64 | 36.81 | 48.54 | 74.00 | -25.46 | HORIZONTAL | Peak |
| 3 | 4930.000 | 48.82 | 31.62 | 5.60 | 36.84 | 49.20 | 74.00 | -24.80 | HORIZONTAL | Peak |
| 4 | 5883.739 | 51.07 | 32.29 | 5.93 | 36.90 | 52.39 | 74.00 | -21.61 | HORIZONTAL | Peak |
| 5 | 7395.000 | 47.46 | 36.17 | 6.19 | 37.46 | 52.36 | 74.00 | -21.64 | HORIZONTAL | Peak |
| 6 | 9860.000 | 45.18 | 38.60 | 6.98 | 37.41 | 53.35 | 74.00 | -20.65 | HORIZONTAL | Peak |

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:High



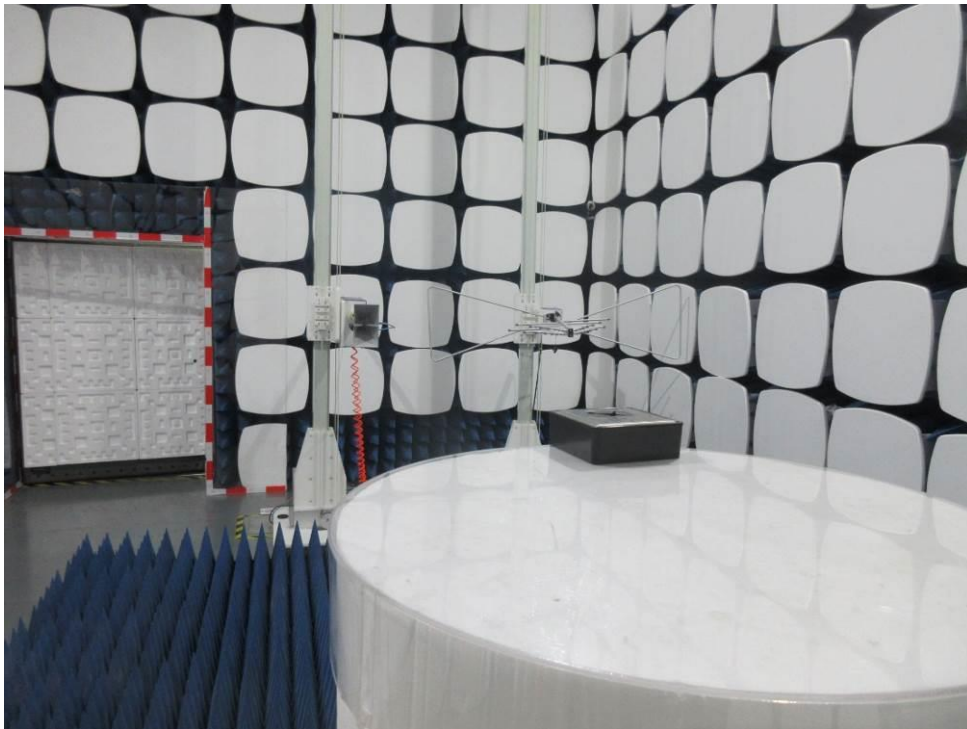
| | Freq | ReadAntenna | Cable | Preamp | | Limit | Over | | | |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
| | MHz | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1303.096 | 50.32 | 25.21 | 2.60 | 38.31 | 39.82 | 74.00 | -34.18 | VERTICAL | Peak |
| 2 | 4109.822 | 50.68 | 29.96 | 4.60 | 36.80 | 48.44 | 74.00 | -25.56 | VERTICAL | Peak |
| 3 | 4930.000 | 47.23 | 31.62 | 5.60 | 36.84 | 47.61 | 74.00 | -26.39 | VERTICAL | Peak |
| 4 | 6187.373 | 50.43 | 32.96 | 6.07 | 36.93 | 52.53 | 74.00 | -21.47 | VERTICAL | Peak |
| 5 | 7395.000 | 47.34 | 36.17 | 6.19 | 37.46 | 52.24 | 74.00 | -21.76 | VERTICAL | Peak |
| 6 | 9860.000 | 44.07 | 38.60 | 6.98 | 37.41 | 52.24 | 74.00 | -21.76 | VERTICAL | Peak |

7 Test Setup Photo

Radiated Emissions (below 1GHz)



Radiated Emissions (above 1GHz)



8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2108020916AT

- End of the Report -