

TEST REPORT

Application No.: GZEM2101000263HS
Applicant: Guangdong Galanz Enterprises Co., Ltd.
Address of Applicant: 25 Ronggui Nan Road, Shunde, Foshan, Guangdong, China
Manufacturer: Guangdong Galanz Microwave Electrical Appliances Manufacturing Co., Ltd.
Address of Manufacturer: 3 Xingpu Avenue, Huangpu, Zhongshan, Guangdong, China.
Factory: 1) Guangdong Galanz Microwave Electrical Appliances Manufacturing Co., Ltd.
 2) Guangdong Galanz Microwave Oven and Electrical Appliances Manufacturing Co., Ltd.
Address of Factory: 1) 3 Xingpu Avenue, Huangpu, Zhongshan, Guangdong, China.
 2) 25 Ronggui Nan Road, Shunde, Foshan, Guangdong, China

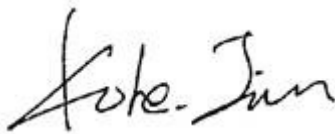
Equipment Under Test (EUT):
EUT Name: Microwave Oven
Model No.: P90D25AL-HP7, P90D25(X)-Y, WMC30309LB, WMC30309LS, YWMC30309LS, WMC30309LB**, WMC30309LS**, YWMC30309LS**
 P: with microwave function only
 90: denote the output power is 900W
 D25: denote different cavity in 25 liters.
 Variable (X) may be L, P, SL, SP, TL, TP, AL, AP, ASL, ASP, ATL, ATP, EL, EP, ESL, ESP, ETL, ETP, ML, MP, MSL, MSP, MTL, MTP, MYL.
 Variable (Y) may compose by one to five characters from A to Z and/or numbers from 0 to 9. It represents the differences of the appearance.
 ** may be letters or alphanumeric characters designating different model name

☐ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark: Galanz
Standard(s): 47 CFR Part 18
Date of Receipt: 2021-01-13
Date of Test: 2021-01-10 to 2021-01-24
Date of Issue: 2021-02-19

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

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


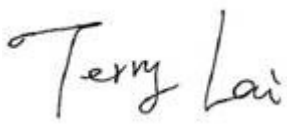


Kobe Jian
 EMC Laboratory Manager



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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2021-02-19 | | Original |
| | | | | |
| | | | | |
| | | | | |

| | | | |
|---------------------------------|---|--|--|
| Authorized for issue by: | | | |
| Tested By |  | | |
| | Damon_Guan /Project Engineer | | |
| Reviewed By |  | | |
| | Terry_Lai /Reviewer | | |



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2 Test Summary

| Emission Part | | | | |
|---|----------------|-------------------|------------------------------|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Emissions at Mains Terminals (150kHz-30MHz) | 47 CFR Part 18 | FCC OST/MP-5:1986 | 18.307 | Pass |
| Output Power Measurement | 47 CFR Part 18 | FCC OST/MP-5:1986 | FCC OST/MP-5:1986 Clause 4.3 | Pass |
| Operating Frequency Measurement | 47 CFR Part 18 | FCC OST/MP-5:1986 | 18.301 | Pass |
| Radiation Hazard Test | 47 CFR Part 18 | FCC OST/MP-5:1986 | 1 mW/cm ² | Pass |
| Radiated Emissions (30MHz-1GHz) | 47 CFR Part 18 | FCC OST/MP-5:1986 | 18.305 | Pass |
| Radiated Emissions (above 1GHz) | 47 CFR Part 18 | FCC OST/MP-5:1986 | 18.305 | Pass |
| Radiated Emissions (Magnetic field Strength) (9kHz-30MHz) | 47 CFR Part 18 | FCC OST/MP-5:1986 | 18.305 | Pass |

Declaration of EUT Family Grouping:

Models: P90D25AL-HP7, P90D25(X)-Y, WMC30309LB, WMC30309LS, YWMC30309LS, WMC30309LB**, WMC30309LS**, YWMC30309LS**

P: with microwave function only

90: denote the output power is 900W

D25: denote different cavity in 25 liters.

Variable (X) may be

L, P, SL, SP, TL, TP, AL, AP, ASL, ASP, ATL, ATP, EL, EP, ESL, ESP, ETL, ETP, ML, MP, MSL, MSP, MTL, MTP, MYL.

Variable (Y) may compose by one to five characters from A to Z and/or numbers from 0 to 9. It represents the differences of the appearance.

** may be letters or alphanumeric characters designating different model name

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the outer appearance and model name.

Therefore only one model P90D25AL-HP7 was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power Supply: AC 120V 60Hz
 Test Voltage: AC 120V 60Hz
 Cable: About 1.0m x 3 wires unscreened AC mains cable.

4.2 Description of Support Units

Load for microwave ovens for testing:

| |
|---|
| 1000mL of water in the beaker for power output and frequency measurement. |
| One of 700 and the other of 300mL of water for second and third harmonic radiation measurement. |
| 700mL of water for all other measurement |

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|--|--------------------------|
| 1 | Conducted Disturbance Voltage at Mains Terminals | 3.63dB (9kHz to 150kHz) |
| | | 3.22dB (150kHz to 30MHz) |
| 2 | Disturbance Power | 3.78dB |
| 3 | Radiated Emissions | 5.0dB (9kHz-30MHz) |
| | | 5.0dB (30MHz-1GHz) |
| | | 5.2dB (1GHz-6GHz) |
| | | 5.5dB (6GHz-25GHz) |

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.



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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 C-Tick mark as a result of our NVLAP accreditation.

● **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 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● **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, Jul 13, 2017.

● **Industry Canada (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-10449 and T-11179)**

The 10m Semi-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-10449 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 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

| Conducted Emissions at Mains Terminals (150kHz-30MHz) | | | | | |
|---|-------------------|----------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Shielding Room | ChangZhou ZhongYu | 8m x 3m x 3.8m | EMC0306 | N/A | N/A |
| Two-Line V-Network | Rohde & Schwarz | ENV216 | EMC0118 | 2021-01-08 | 2022-01-07 |
| LISN | Rohde & Schwarz | ENV216 | EMC2135 | 2020-09-25 | 2021-09-24 |
| EMI Test Receiver | Rohde & Schwarz | ESCS30 | EMC0506 | 2020-11-13 | 2021-11-12 |
| Coaxial Cable | HangTianXing | 2m | EMC0107 | 2020-09-09 | 2022-09-08 |
| Voltage Probe | SGS-EMC | N/A | EMC0106 | 2019-05-10 | 2021-05-09 |
| Conical Metal Housing | SGS-EMC | N/A | EMC0167 | 2020-04-19 | 2022-04-18 |
| Test Software E3c | Audix | Ver. 5.4.1221b | GZE100-62 | N/A | N/A |

| Radiation hazard test | | | | | |
|-----------------------------------|---------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Electric Field Probe(100kHz-3GHz) | WANDEL & GOLTERMANN | EMR-20 | EMC0907 | 2020-05-29 | 2021-05-28 |

| Radiated Emissions (30MHz-1GHz) | | | | | |
|-------------------------------------|-----------------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EMI Test Receiver | Rohde & Schwarz | ESIB26 | EMC0522 | 2021-01-08 | 2022-01-07 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | EMC0056 | 2021-01-03 | 2022-01-02 |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2019-06-28 | 2021-06-27 |
| Trilog Broadband Antenna 25MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | EMC2174 | 2018-09-06 | 2021-09-05 |
| Trilog Broadband Antenna 30MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 |
| Bi-log Type Antenna | Schaffner Chase | CBL6143 | EMC0519 | 2020-06-08 | 2023-06-07 |
| Horn Antenna 1GHz-18GHz | Rohde & Schwarz | HF906 | EMC0518 | 2018-09-02 | 2021-09-01 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-01-08 | 2022-01-07 |
| Amplifier | HP | 8447F | EMC2065 | 2020-05-26 | 2021-05-25 |
| Pre-Amplifier MH648A | ANRITSU CORP | MH648A | EMC2086 | 2020-11-13 | 2021-11-12 |
| Active Loop Antenna | ETS-Lindgren | 6502 | EMC2190 | 2019-12-27 | 2021-12-26 |
| High Pass Filter(915MHz) | FSY MICROWAVE | HM1465-9SS | EMC2079 | 2021-01-08 | 2022-01-07 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2021-01-08 | 2022-01-07 |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2019-10-20 | 2022-10-19 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-19 | 2023-12-18 |
| MXE EMI Receiver | Keysight | N9038A | EMC2139 | 2020-11-13 | 2021-11-12 |
| EXA Signal Analyzer | Keysight | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |



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| Radiated Emissions (above 1GHz) | | | | | |
|-------------------------------------|-----------------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EMI Test Receiver | Rohde & Schwarz | ESIB26 | EMC0522 | 2021-01-08 | 2022-01-07 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | EMC0056 | 2021-01-03 | 2022-01-02 |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2019-06-28 | 2021-06-27 |
| Trilog Broadband Antenna 25MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | EMC2174 | 2018-09-06 | 2021-09-05 |
| Bi-log Type Antenna | Schaffner Chase | CBL6143 | EMC0519 | 2020-06-08 | 2023-06-07 |
| Horn Antenna | SCHWARZBECKME SS-ELEKTRONIK | BBHA 9120D | EMC2016 | 2019-09-25 | 2022-09-24 |
| Horn Antenna 1GHz-18GHz | Rohde & Schwarz | HF906 | EMC0518 | 2018-09-02 | 2021-09-01 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-01-08 | 2022-01-07 |
| Amplifier | HP | 8447F | EMC2065 | 2020-05-26 | 2021-05-25 |
| Pre-Amplifier MH648A | ANRITSU CORP | MH648A | EMC2086 | 2020-11-13 | 2021-11-12 |
| Active Loop Antenna | EMCO | 6502 | EMC0523 | 2018-03-05 | 2021-03-04 |
| High Pass Filter(915MHz) | FSY MICROWAVE | HM1465-9SS | EMC2079 | 2021-01-08 | 2022-01-07 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2021-01-08 | 2022-01-07 |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2019-10-20 | 2022-10-19 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-19 | 2023-12-18 |
| MXE EMI Receiver | Keysight | N9038A | EMC2139 | 2020-11-13 | 2021-11-12 |
| EXA Signal Analyzer | Keysight | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 |
| Trilog Broadband Antenna 30MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |



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| Radiated Emissions (Magnetic field Strength) (9kHz-30MHz) | | | | | |
|--|-----------------------------|-----------------|---------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EMI Test Receiver | Rohde & Schwarz | ESIB26 | EMC0522 | 2021-01-08 | 2022-01-07 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | EMC0056 | 2021-01-03 | 2022-01-02 |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2019-06-28 | 2021-06-27 |
| Trilog Broadband Antenna 25MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | EMC2174 | 2018-09-06 | 2021-09-05 |
| Trilog Broadband Antenna 30MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 |
| Bi-log Type Antenna | Schaffner Chase | CBL6143 | EMC0519 | 2020-06-08 | 2023-06-07 |
| Horn Antenna 1GHz-18GHz | Rohde & Schwarz | HF906 | EMC0518 | 2018-09-02 | 2021-09-01 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-01-08 | 2022-01-07 |
| Amplifier | HP | 8447F | EMC2065 | 2020-05-26 | 2021-05-25 |
| Pre-Amplifier MH648A | ANRITSU CORP | MH648A | EMC2086 | 2020-11-13 | 2021-11-12 |
| Active Loop Antenna | ETS-Lindgren | 6502 | EMC2190 | 2019-12-27 | 2021-12-26 |
| High Pass Filter(915MHz) | FSY MICROWAVE | HM1465-9SS | EMC2079 | 2021-01-08 | 2022-01-07 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2021-01-08 | 2022-01-07 |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2019-10-20 | 2022-10-19 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-19 | 2023-12-18 |
| MXE EMI Receiver | Keysight | N9038A | EMC2139 | 2020-11-13 | 2021-11-12 |
| EXA Signal Analyzer | Keysight | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 |
| 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 | 2020-07-09 | 2021-07-08 |
| DMM | Fluke | 73 | EMC0007 | 2020-07-09 | 2021-07-08 |



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

| | |
|-------------------|--|
| Test Requirement: | 47 CFR Part 18 |
| Test Method: | FCC OST/MP-5:1986 |
| Frequency Range: | 150kHz to 30MHz |
| Limit: | |
| 0.15M-0.5MHz | 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average |
| 0.5M-5MHz | 56dB(μV) quasi-peak, 46dB(μV) average |
| 5M-30MHz | 60dB(μV) quasi-peak, 50dB(μV) average |
| Detector: | Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz |

6.1.1 E.U.T. Operation

Operating Environment:

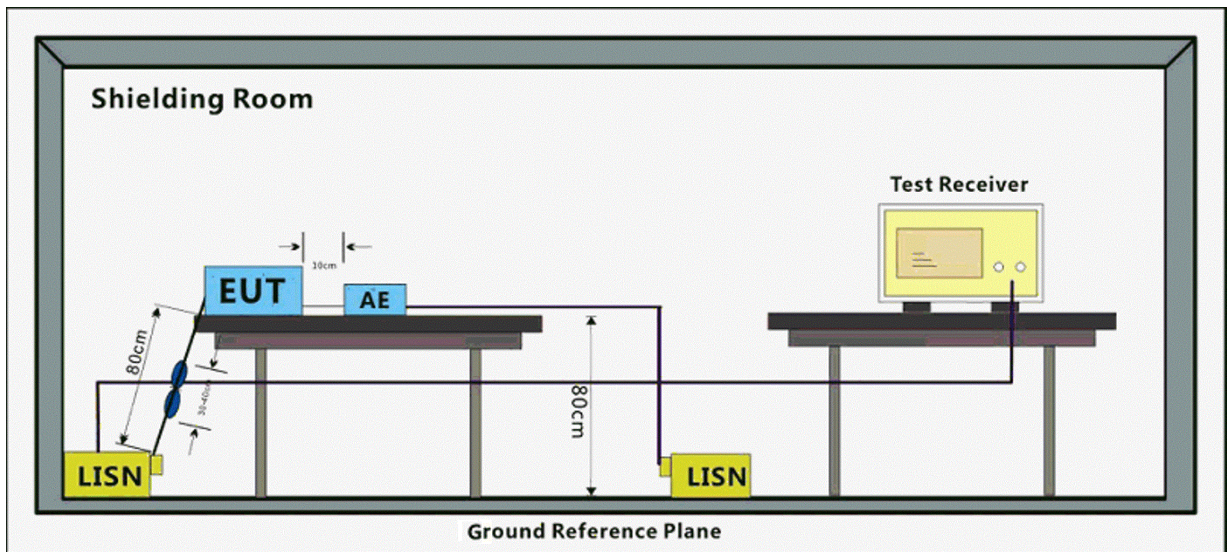
Temperature: 23 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:

- a: Test the EUT in microwave mode with maximum power.
- b: Test the EUT in microwave mode with middle power.
- c: Test the EUT in microwave mode with lowest power.

The worst case for final test: a: Test the EUT in microwave mode with maximum power.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

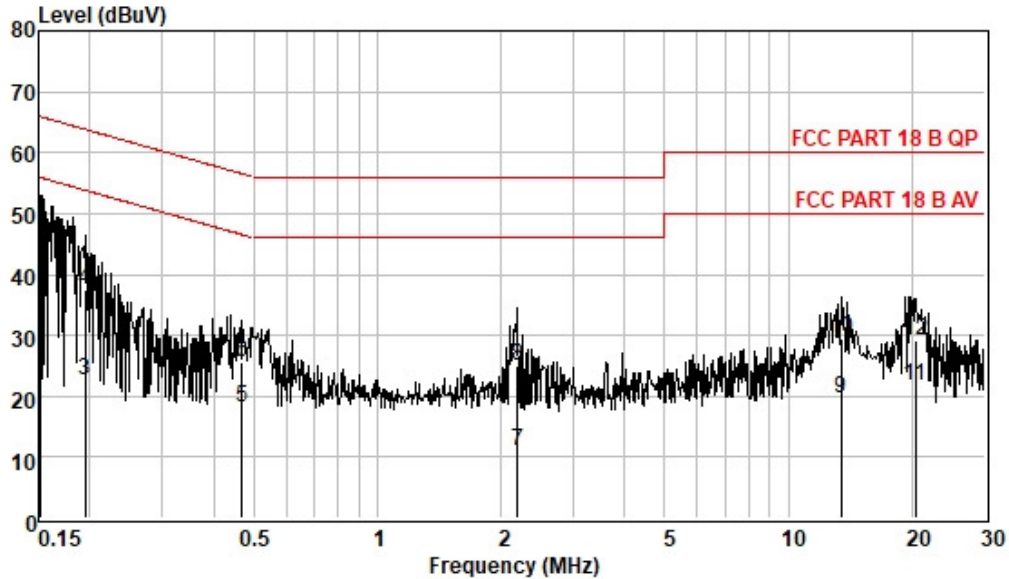
Measured Level = Read level + Cable Loss + LISN Factor



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Mode:a; Line:Live Line



Pol :LINE
Mode :
Model :

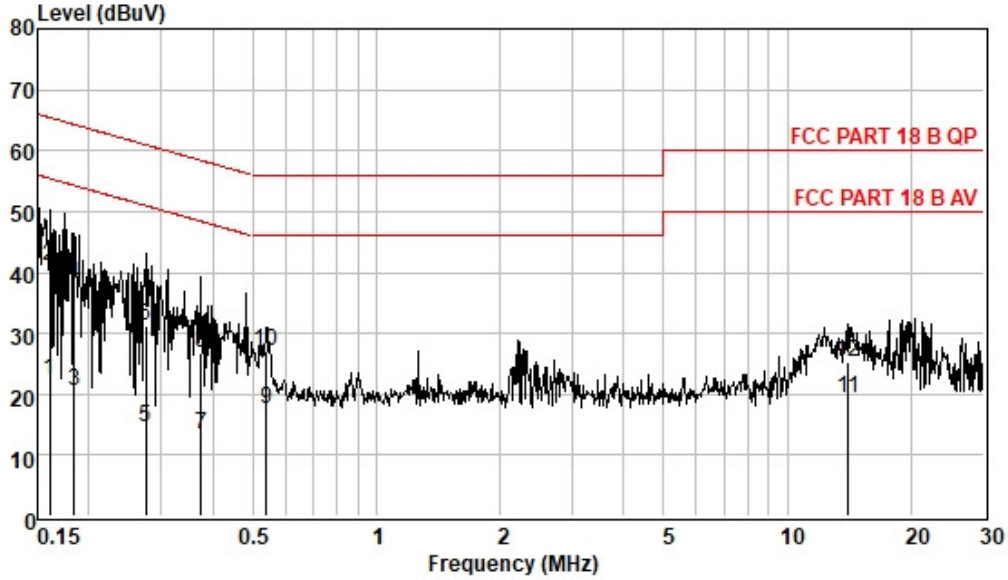
| Frequec MHz | Read Level dBuV | Cable Loss dB | LISN Factor dB | Measured Level dBuV | Limit Line dBuV | Over Limit dB | Remark |
|----------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 0.15 | 15.36 | 0.06 | 9.62 | 25.04 | 55.96 | -30.92 | Average |
| 0.15 | 35.59 | 0.06 | 9.62 | 45.27 | 65.96 | -20.69 | QP |
| 0.19 | 13.04 | 0.06 | 9.63 | 22.73 | 53.84 | -31.11 | Average |
| 0.19 | 27.78 | 0.06 | 9.63 | 37.47 | 63.84 | -26.37 | QP |
| 0.47 | 8.50 | 0.07 | 9.63 | 18.20 | 46.54 | -28.34 | Average |
| 0.47 | 15.89 | 0.07 | 9.63 | 25.59 | 56.54 | -30.95 | QP |
| 2.19 | 1.28 | 0.13 | 9.62 | 11.03 | 46.00 | -34.97 | Average |
| 2.19 | 15.32 | 0.13 | 9.62 | 25.07 | 56.00 | -30.93 | QP |
| 13.41 | 9.66 | 0.29 | 9.73 | 19.68 | 50.00 | -30.32 | Average |
| 13.41 | 19.36 | 0.29 | 9.73 | 29.38 | 60.00 | -30.62 | QP |
| 20.38 | 11.62 | 0.37 | 9.77 | 21.76 | 50.00 | -28.24 | Average |
| 20.38 | 19.12 | 0.37 | 9.77 | 29.26 | 60.00 | -30.74 | QP |



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Mode:a; Line:Neutral Line



Pol :NEUTRAL
 Mode :
 Model :

| Frequec MHz | Read Level dBuV | Cable Loss dB | LISN Factor dB | Measured Level dBuV | Limit Line dBuV | Over Limit dB | Remark |
|----------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 0.16 | 12.75 | 0.06 | 9.55 | 22.36 | 55.43 | -33.07 | Average |
| 0.16 | 31.58 | 0.06 | 9.55 | 41.19 | 65.43 | -24.24 | QP |
| 0.18 | 10.79 | 0.06 | 9.55 | 20.40 | 54.28 | -33.88 | Average |
| 0.18 | 28.46 | 0.06 | 9.55 | 38.07 | 64.28 | -26.21 | QP |
| 0.27 | 4.98 | 0.06 | 9.55 | 14.59 | 50.98 | -36.39 | Average |
| 0.27 | 21.73 | 0.06 | 9.55 | 31.34 | 60.98 | -29.64 | QP |
| 0.38 | 3.69 | 0.06 | 9.55 | 13.30 | 48.39 | -35.09 | Average |
| 0.38 | 17.30 | 0.06 | 9.55 | 26.91 | 58.39 | -31.48 | QP |
| 0.54 | 7.98 | 0.07 | 9.55 | 17.60 | 46.00 | -28.40 | Average |
| 0.54 | 17.34 | 0.07 | 9.55 | 26.96 | 56.00 | -29.04 | QP |
| 14.06 | 9.45 | 0.30 | 9.63 | 19.38 | 50.00 | -30.62 | Average |
| 14.06 | 15.21 | 0.30 | 9.63 | 25.14 | 60.00 | -34.86 | QP |



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6.1 Output Power Measurement

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986

6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.2 °C Humidity: 50.4 % RH Atmospheric Pressure: 1019 mbar
 Test mode a: Test the EUT in microwave mode with maximum power.

6.1.2 Measurement Data

| Mass of water (g) | Mass of the container (g) | Ambient temperature (°C) | Initial temperature (°C) | Final temperature (°C) | Heating time(s) | Power output (watts) |
|-------------------|---------------------------|--------------------------|--------------------------|------------------------|-----------------|----------------------|
| 1000 | 410 | 20.2 | 9.9 | 19.9 | 48 | 870.9 |

Formula :

$$P = \frac{4,187 \cdot m_w(T_2 - T_1) + 0,55 \cdot m_c(T_2 - T_0)}{t}$$

NOTE :

P is the microwave power output, in watts
 m_w is the mass of the water, in grams
 m_c is the mass of the container, in grams
 T₀ is the ambient temperature, in degrees Celsius
 T₁ is the initial temperature of the water, in degrees Celsius
 T₂ is the final temperature of the water, in degrees Celsius
 t is the heating time, in seconds, excluding the magnetron filament heating-up time.

6.1.3 Input Power Measurement

The EUT was set up according to the MP-5 for input power measurement, the input power and current was measured using a power analyzer. Water load in a beaker was located in the center of the oven and the microwave oven was set to maximum power.

Base on the measured input power it was found that the microwave oven can operating as the user manual's specifications.

| Input Voltage (V) | Input Current (A) | Power Factor | Measured input power (W) | Rated input power (W) |
|-------------------|-------------------|--------------|--------------------------|-----------------------|
| 120.02 | 11.94 | 0.931 | 1334 | 1350 |



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6.2 Radiation Hazard Test

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Test distance: Five centimeters from the oven surface

6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.2 °C Humidity: 51.3 % RH Atmospheric Pressure: 1021 mbar
 Test mode a: Test the EUT in microwave mode with maximum power.

6.2.2 Measurement Data

| Maximum measure level (mW/cm ²) | Limit (mW/cm ²) | Pass/Fail |
|--|--------------------------------|-----------|
| 0.094 | 1.00 | Pass |



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6.3 Operating Frequency

- Test Requirement: 47 CFR Part 18
- Test Method: FCC OST/MP-5:1986
- Frequency Range: 2400-2500 MHz
- Detector: Average for the final result for outside ISM band(2450MHz±50MHz)
- Outside band limit: (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
 (b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

| RF Power generated by equipment(watts) | Field strength Limit(uV/m) @300m |
|--|----------------------------------|
| Below 500 | 25 |
| 500 or more | 25*SQRT(power/500) |

Power =870.9 W according to clause 6.1.2

Limit=20lg(25*SQRT(power/500))+20lg(300/3)=70.37dBuV/m @ 3m distance.

ISM band: ISM equipment may be operated on any frequency above 9 kHz.
 And the frequency band 2400-2500MHz is allocated for use by ISM equipment. (§18.301)

| ISM frequency | Tolerance |
|----------------|-----------------|
| 6.78MHz | ±15.0kHz |
| 13.56MHz | ±7.0kHz |
| 27.12MHz | ±163.0kHz |
| 40.68MHz | ±20.0kHz |
| 915MHz | ±13.0MHz |
| 2450MHz | ±50.0MHz |
| 5800MHz | ±75.0MHz |
| 24125MHz | ±125.0MHz |
| 61.25GHz | ±250.0MHz |
| 122.5GHz | ±500.0MHz |
| 245.00GHz | ±1.0GHz |

6.3.1 E.U.T. Operation

- Operating Environment:
 - Temperature: 22.2 °C Humidity: 51.4 % RH Atmospheric Pressure: 1022 mbar
- Pretest these modes to find the worst case:
 - a: Test the EUT in microwave mode with maximum power.
 - b: Test the EUT in microwave mode with middle power.
 - c: Test the EUT in microwave mode with lowest power.
- The worst case for final test:
 - a: Test the EUT in microwave mode with maximum power.



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6.3.2 Measurement Data

1)The variation of frequency with time

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature, the operating frequency was monitored until the water load was reduced to 20 percent of the original quantity.

Test record was found the worst situation is when the water load is reduced to 20 percent of the original quantity.

| ISM frequency(MHz) | Tolerance(MHz) | Measurement Data(MHz) |
|--------------------|----------------|-----------------------|
| 2450 | ±50 | 2474 |

2)The variation of frequency with line voltage.

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature. The EUT was started to warm by at least 10 minutes, the operating frequency was monitored as the rated voltage was varied from 80% to 125%.

Test record was found the worst situation is when the line voltage is 125% of rated AC voltage.

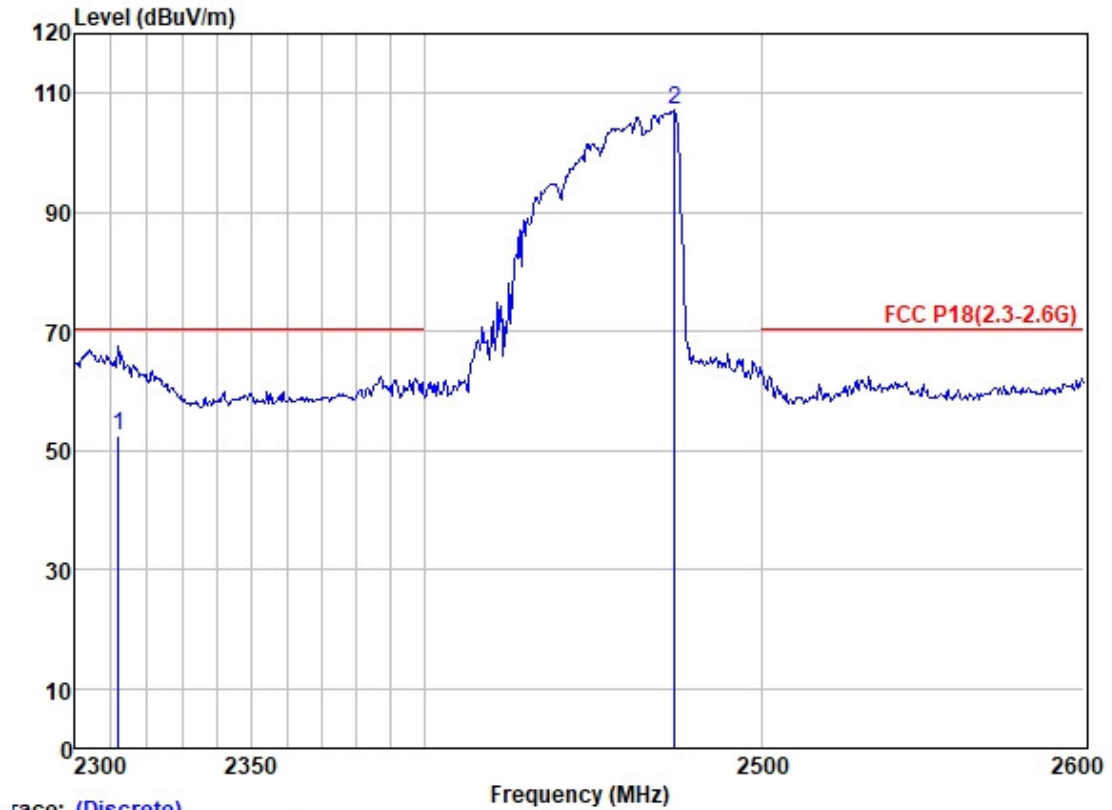
| ISM frequency(MHz) | Tolerance(MHz) | Measurement Data(MHz) |
|--------------------|----------------|-----------------------|
| 2450 | ±50 | 2473 |



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1)The variation of frequency with time



Trace: (Discrete)

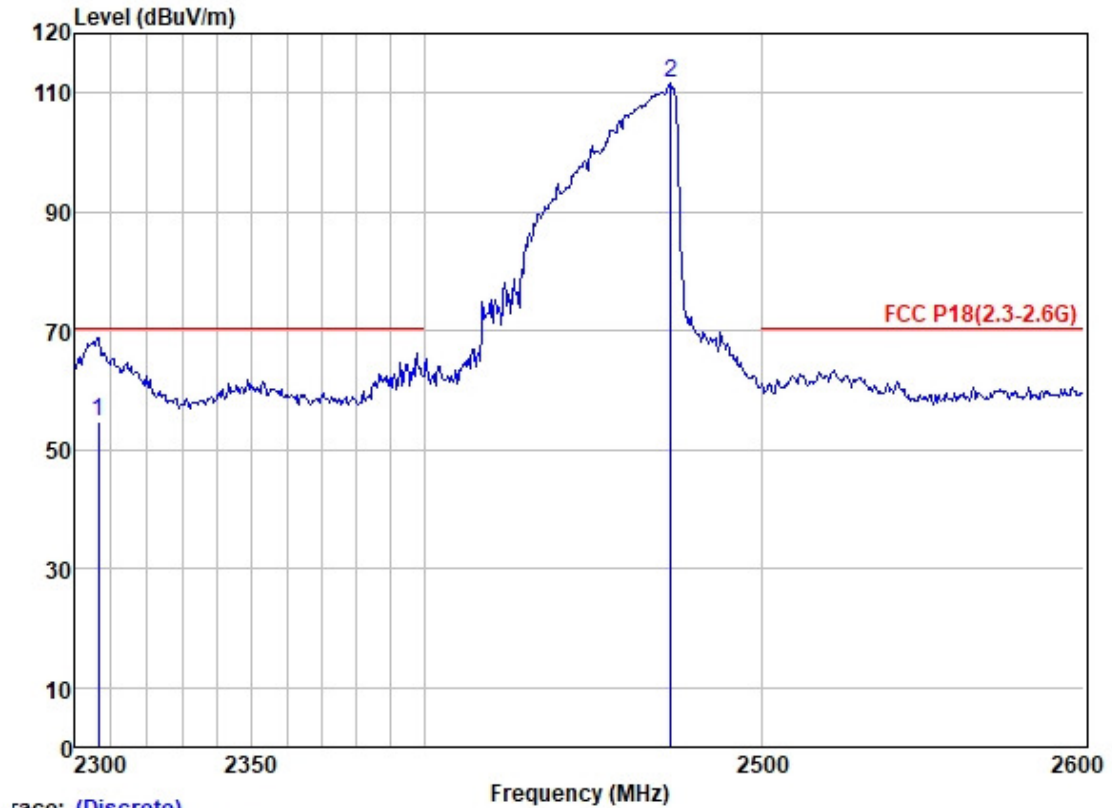
| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|------------|-----------|------------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2312.157 | 22.03 | 27.15 | 3.32 | 0.00 | 52.50 | 70.37 | -17.87 | VERTICAL Average |
| 2 | 2473.749 | 76.26 | 27.46 | 3.55 | 0.00 | 107.27 | ----- | ----- | VERTICAL Peak |



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2)The variation of frequency with line voltage



Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|------------|-----------|--------------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2306.495 | 24.21 | 27.13 | 3.31 | 0.00 | 54.65 | 70.37 | -15.72 | HORIZONTAL Average |
| 2 | 2472.536 | 80.51 | 27.46 | 3.55 | 0.00 | 111.52 | ----- | ----- | HORIZONTAL Peak |



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6.4 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Frequency Range: 30MHz to 1GHz
 Measurement Distance: 3m
 Detector: Peak for pre-scan, Average for the final result
 (100 kHz Resolution Bandwidth for 30MHz to 1,000MHz)
 Limit: (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
 (b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

| RF Power generated by equipment(watts) | Field strength Limit(uV/m) @300m |
|--|----------------------------------|
| Below 500 | 25 |
| 500 or more | 25*SQRT(power/500) |

Power =870.9 W according to clause 6.1.2

Limit=20lg(25*SQRT(power/500))+20lg(300/3)=70.37dBuV/m @ 3m distance.

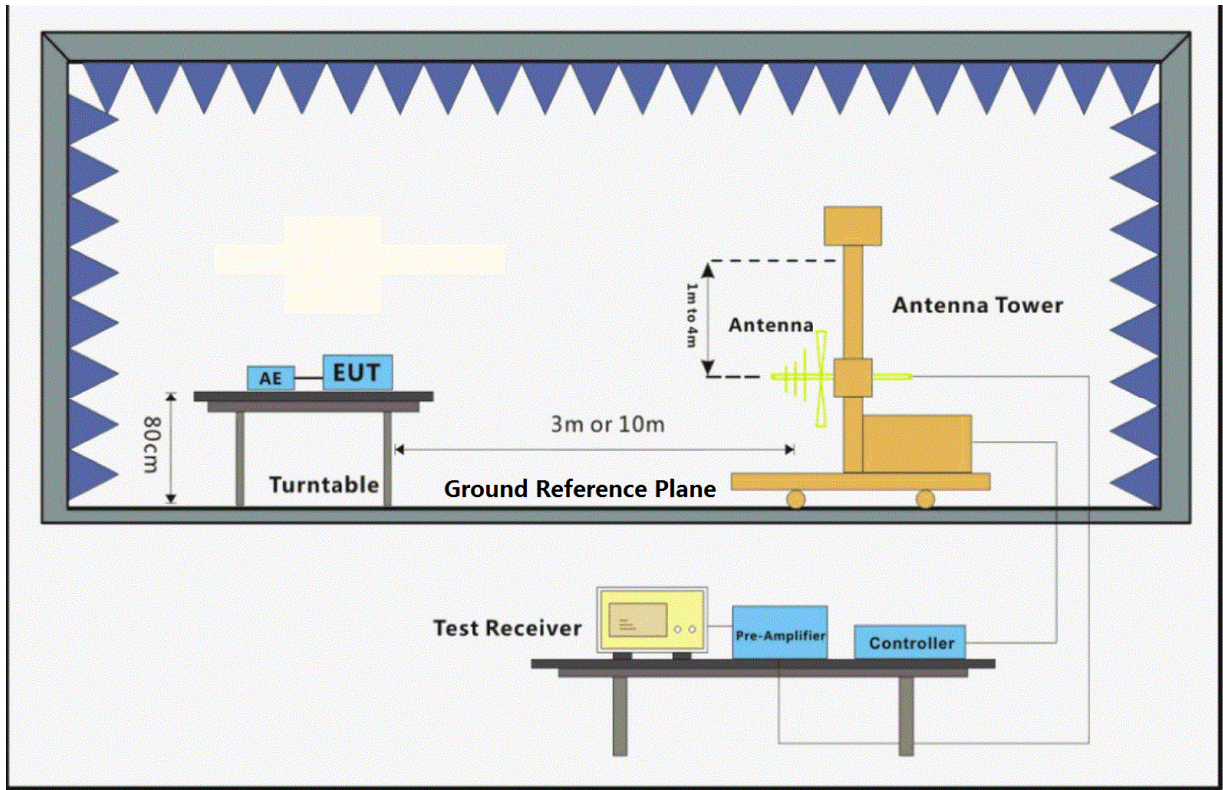
6.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar
 Pretest these modes to find the worst case:
 a: Test the EUT in microwave mode with maximum power.
 b: Test the EUT in microwave mode with middle power.
 c: Test the EUT in microwave mode with lowest power.
 The worst case for final test:
 a: Test the EUT in microwave mode with maximum power.



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6.4.2 Test Setup Diagram



6.4.3 Measurement Data

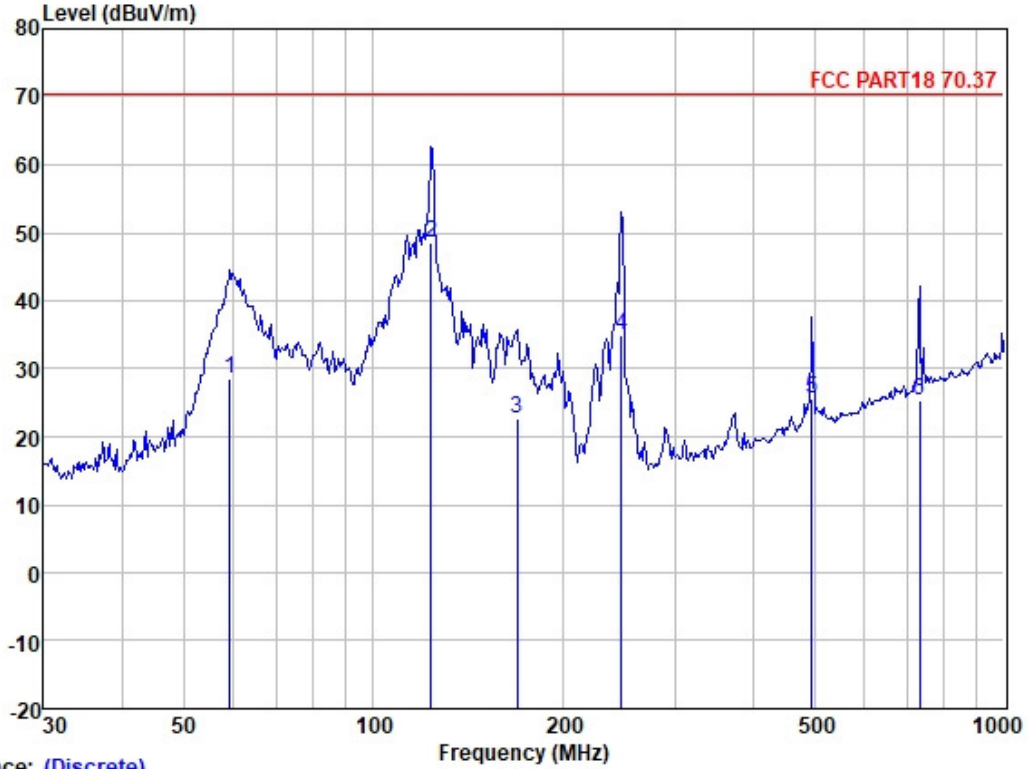
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

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



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Mode:a; Polarization:Horizontal



Trace: (Discrete)

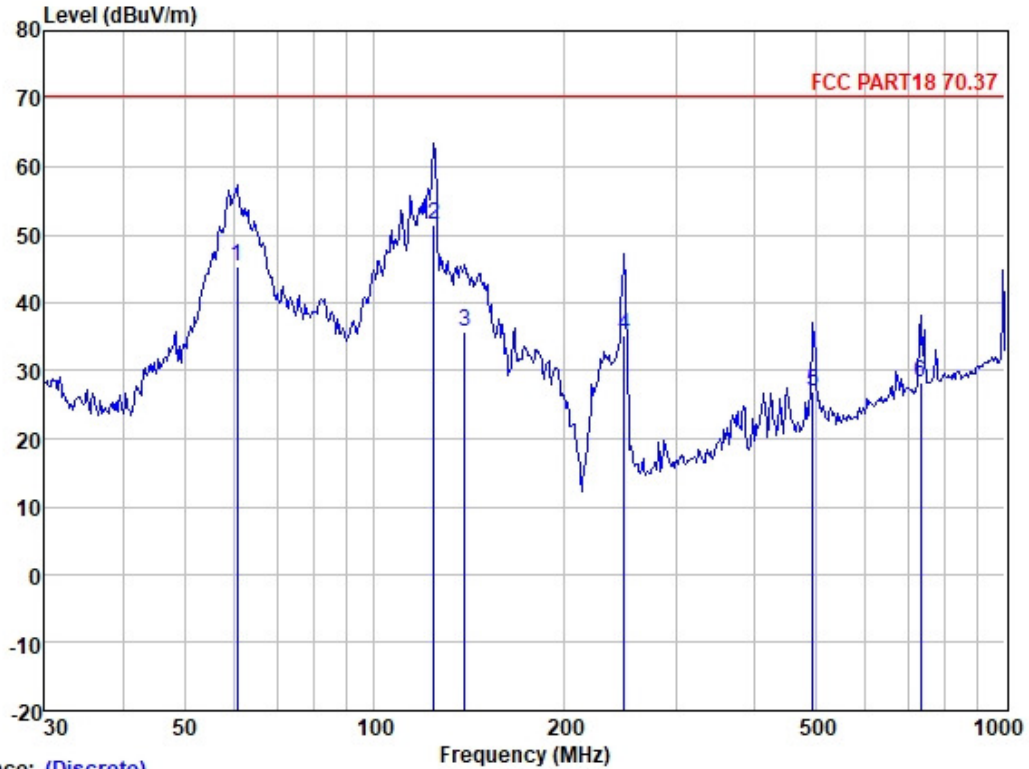
Site : SGS
 Condition: FCC PART18 70.37 3m HORIZONTAL
 Job :
 Model :
 Power :
 Test Mode:

| | 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 | 59.232 | 40.99 | 13.48 | 1.25 | 27.16 | 28.56 | 70.37 | -41.81 | HORIZONTAL Average |
| 2 | 123.266 | 62.38 | 11.30 | 1.90 | 27.02 | 48.56 | 70.37 | -21.81 | HORIZONTAL Average |
| 3 | 169.005 | 33.93 | 13.20 | 2.39 | 26.77 | 22.75 | 70.37 | -47.62 | HORIZONTAL Average |
| 4 | 246.815 | 46.68 | 12.03 | 2.90 | 26.63 | 34.98 | 70.37 | -35.39 | HORIZONTAL Average |
| 5 | 495.934 | 31.24 | 17.90 | 4.39 | 27.97 | 25.56 | 70.37 | -44.81 | HORIZONTAL Average |
| 6 | 734.491 | 25.57 | 21.90 | 5.89 | 28.12 | 25.24 | 70.37 | -45.13 | HORIZONTAL Average |



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Mode:a; Polarization:Vertical



Trace: (Discrete)

Site : SGS
 Condition: FCC PART18 70.37 3m VERTICAL
 Job :
 Model :
 Power :
 Test Mode:

| | 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 | 60.492 | 57.93 | 13.33 | 1.27 | 27.16 | 45.37 | 70.37 | -25.00 | VERTICAL Average |
| 2 | 124.133 | 65.20 | 11.40 | 1.90 | 27.02 | 51.48 | 70.37 | -18.89 | VERTICAL Average |
| 3 | 138.874 | 47.35 | 13.15 | 2.07 | 26.94 | 35.63 | 70.37 | -34.74 | VERTICAL Average |
| 4 | 248.552 | 46.85 | 12.07 | 2.90 | 26.62 | 35.20 | 70.37 | -35.17 | VERTICAL Average |
| 5 | 495.934 | 32.67 | 17.90 | 4.39 | 27.97 | 26.99 | 70.37 | -43.38 | VERTICAL Average |
| 6 | 734.491 | 28.58 | 21.90 | 5.89 | 28.12 | 28.25 | 70.37 | -42.12 | VERTICAL Average |



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6.5 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Frequency Range: Above 1GHz
 Measurement Distance: 3m
 Detector: Peak for pre-scan, Average for the final result
 Limit: (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
 (b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

| RF Power generated by equipment(watts) | Field strength Limit(uV/m) @300m |
|--|----------------------------------|
| Below 500 | 25 |
| 500 or more | 25*SQRT(power/500) |

Power =870.9 W according to clause 6.1.2

Limit=20lg(25*SQRT(power/500))+20lg(300/3)=**70.37dBuV/m @ 3m** distance.

6.5.1 E.U.T. Operation

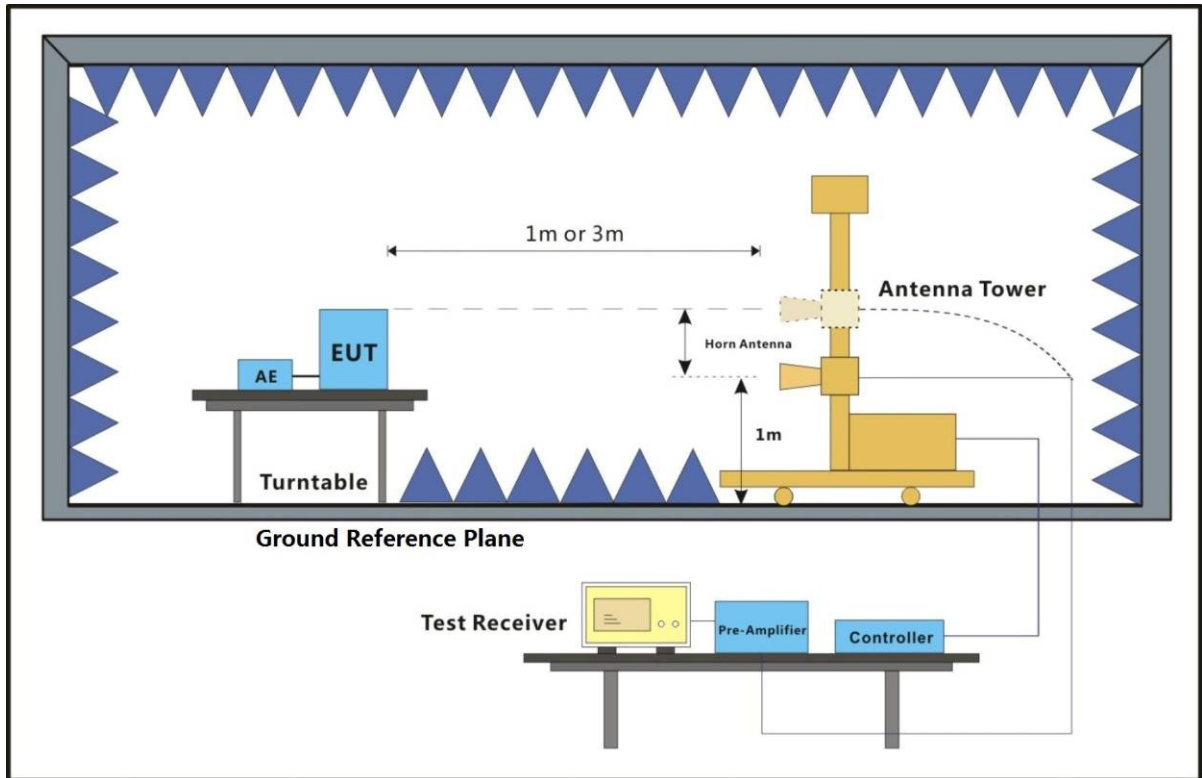
Operating Environment:
 Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar
 Pretest these modes to find the worst case:
 a: Test the EUT in microwave mode with maximum power.
 b: Test the EUT in microwave mode with middle power.
 c: Test the EUT in microwave mode with lowest power.
 The worst case for final test:
 a: Test the EUT in microwave mode with maximum power.



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 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

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

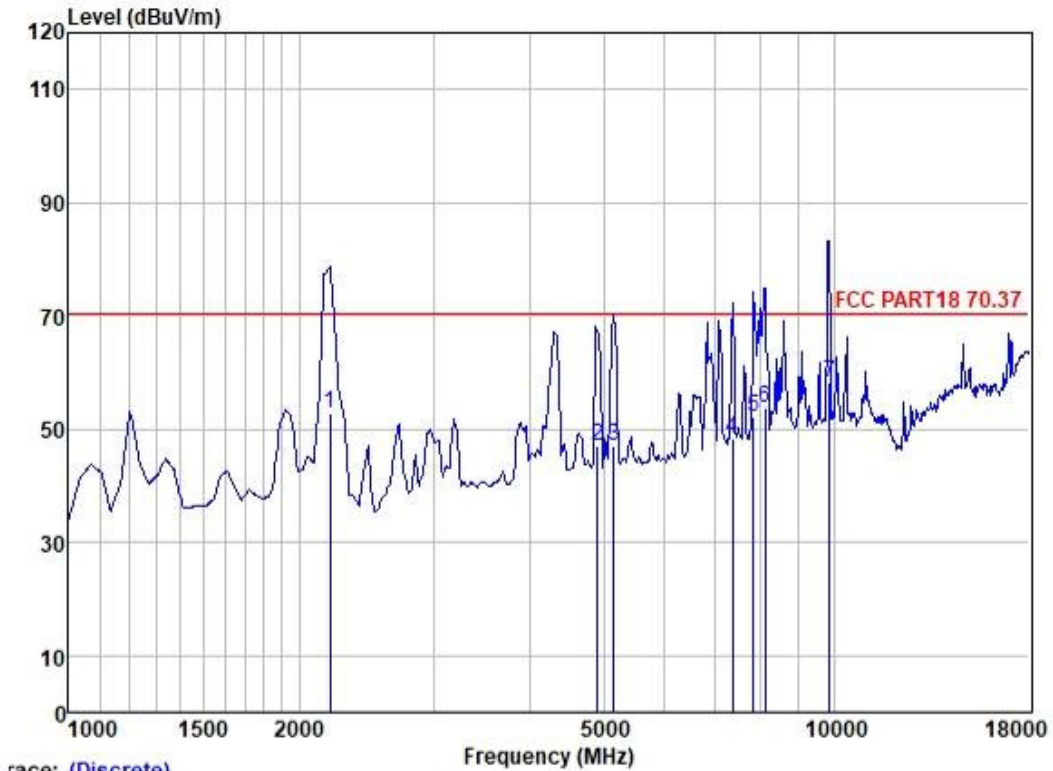
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

$$\text{Level} = \text{Read Level} + \text{Antenna Factor} + \text{Cable Loss} - \text{Preamp Factor}$$



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Mode:a; Polarization:Horizontal



Trace: (Discrete)

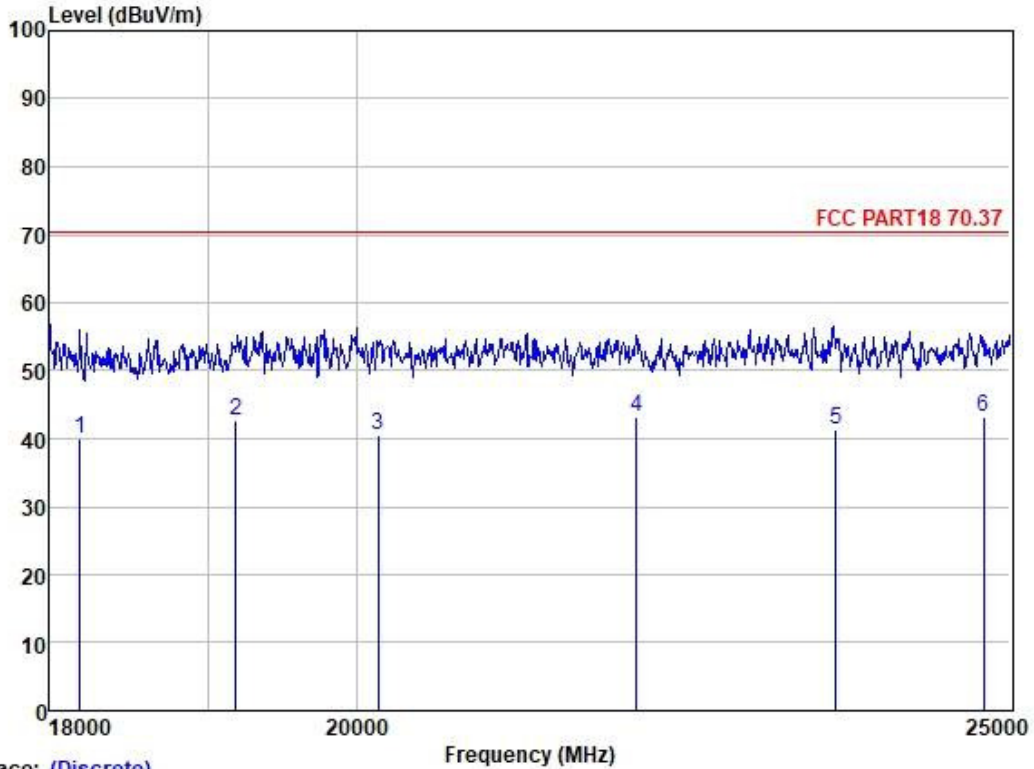
| | ReadAntenna | Cable | Preamp | Limit | Over | | | | | |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|------------|---------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | |
| 1 | 2194.998 | 60.58 | 26.59 | 3.20 | 37.65 | 52.72 | 70.37 | -17.65 | HORIZONTAL | Average |
| 2 | 4912.900 | 46.76 | 31.60 | 5.58 | 36.84 | 47.10 | 70.37 | -23.27 | HORIZONTAL | Average |
| 3 | 5149.197 | 46.67 | 31.72 | 5.62 | 36.86 | 47.15 | 70.37 | -23.22 | HORIZONTAL | Average |
| 4 | 7378.371 | 43.43 | 36.12 | 6.17 | 37.45 | 48.27 | 70.37 | -22.10 | HORIZONTAL | Average |
| 5 | 7852.524 | 46.89 | 36.79 | 6.17 | 37.57 | 52.28 | 70.37 | -18.09 | HORIZONTAL | Average |
| 6 | 8129.664 | 48.23 | 36.95 | 6.27 | 37.59 | 53.86 | 70.37 | -16.51 | HORIZONTAL | Average |
| 7 | 9866.789 | 50.13 | 38.60 | 6.98 | 37.41 | 58.30 | 70.37 | -12.07 | HORIZONTAL | Average |



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Mode:a; Polarization:Horizontal



Trace: (Discrete)

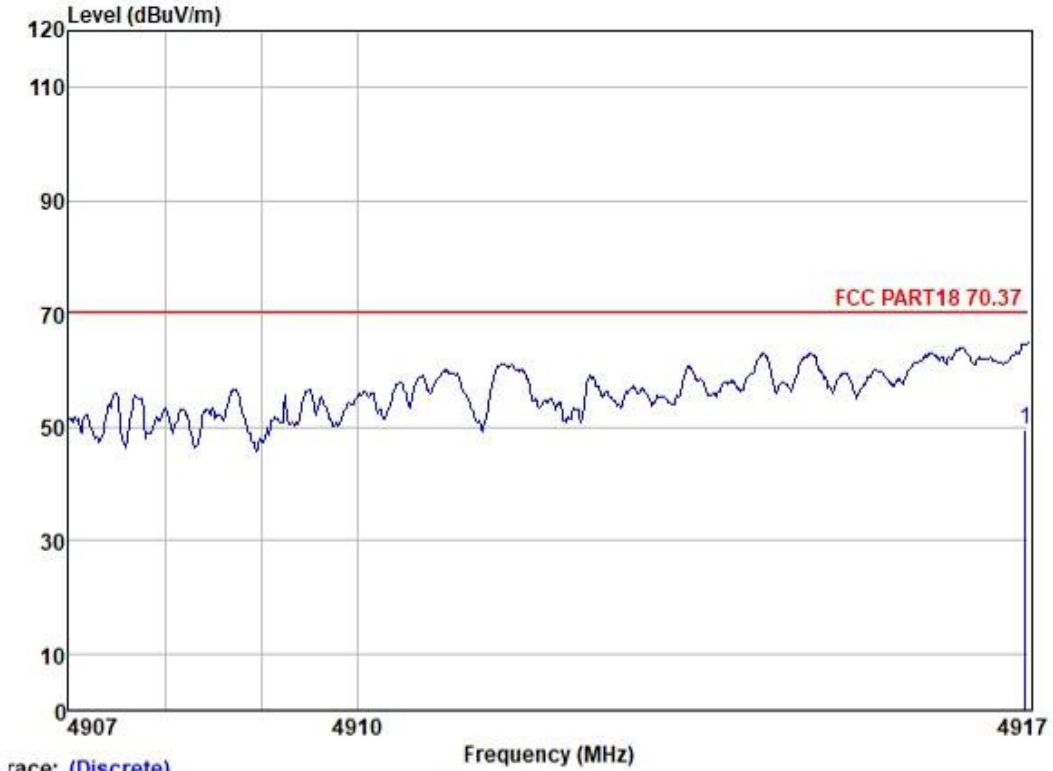
| | ReadAntenna | Cable | Preamp | Limit | Over | | | | |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|--------------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 18190.220 | 21.22 | 37.91 | 16.55 | 35.60 | 40.08 | 70.37 | -30.29 | HORIZONTAL Average |
| 2 | 19184.480 | 23.20 | 38.00 | 16.95 | 35.60 | 42.55 | 70.37 | -27.82 | HORIZONTAL Average |
| 3 | 20140.250 | 20.74 | 37.99 | 17.36 | 35.58 | 40.51 | 70.37 | -29.86 | HORIZONTAL Average |
| 4 | 22001.000 | 21.69 | 38.22 | 18.60 | 35.30 | 43.21 | 70.37 | -27.16 | HORIZONTAL Average |
| 5 | 23549.110 | 17.80 | 39.60 | 19.92 | 35.98 | 41.34 | 70.37 | -29.03 | HORIZONTAL Average |
| 6 | 24771.100 | 19.00 | 39.35 | 21.08 | 36.13 | 43.30 | 70.37 | -27.07 | HORIZONTAL Average |



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Mode:a; Polarization:Horizontal



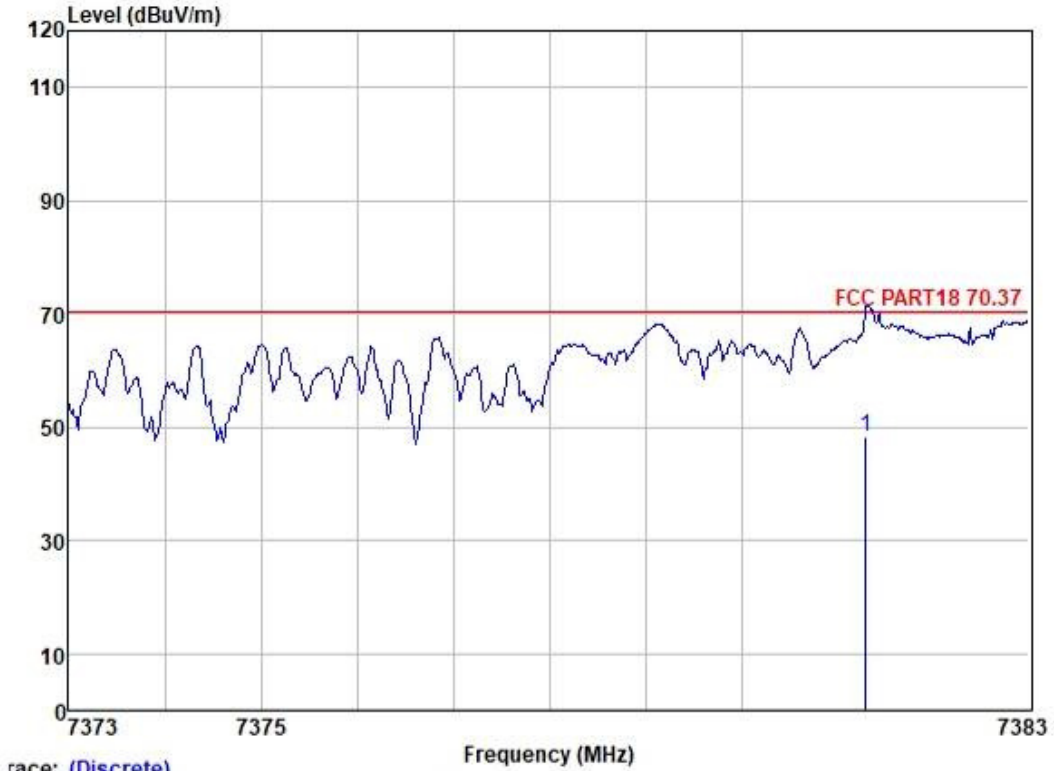
Trace: (Discrete)

| Trace | Freq | ReadAntenna Level | Cable Loss | Preamp Factor | Level | Limit | Over Limit | Pol/Phase | Remark |
|-------|----------|-------------------|------------|---------------|--------|--------|------------|-----------|--------------------|
| | MHz | dBuV | dB/m | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 4916.960 | 49.31 | 31.60 | 5.58 | 36.84 | 49.65 | 70.37 | -20.72 | HORIZONTAL Average |



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Mode:a; Polarization:Horizontal

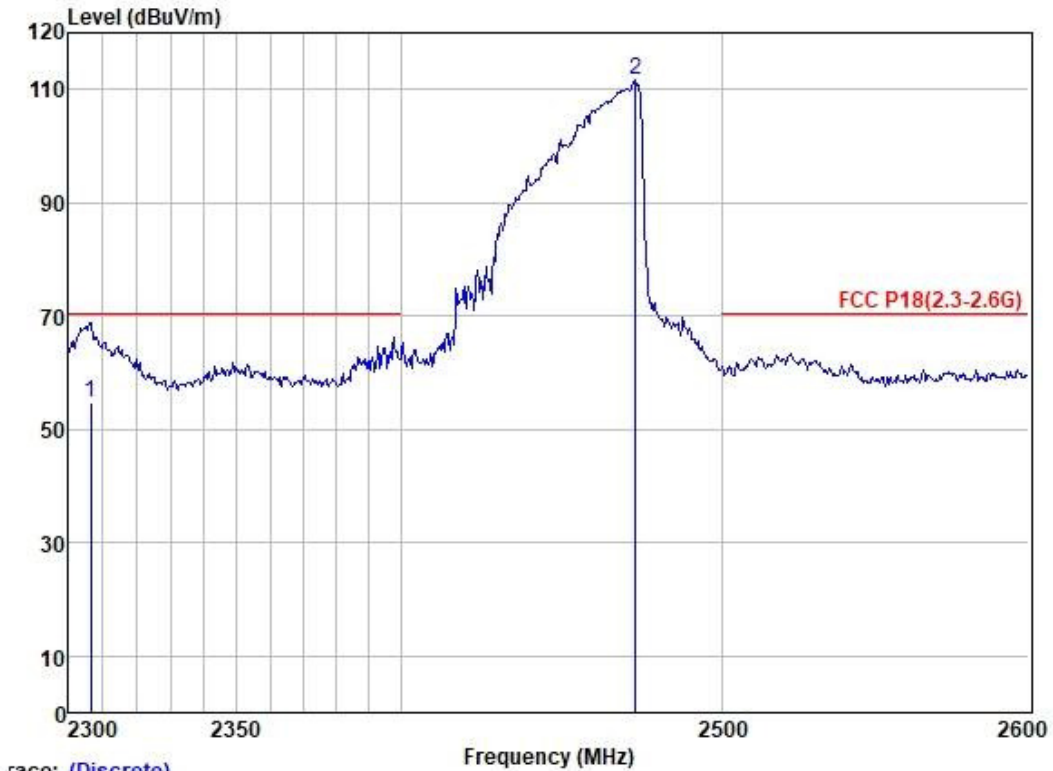


| Trace: (Discrete) | | | | | | | | | |
|-------------------|----------|--------|-------|--------|--------|--------|-------|-----------|--------------------|
| ReadAntenna | Cable | Preamp | Limit | Over | | | | | |
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 7381.299 | 43.47 | 36.17 | 6.19 | 37.45 | 48.38 | 70.37 | -21.99 | HORIZONTAL Average |



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Mode:a; Polarization:Horizontal



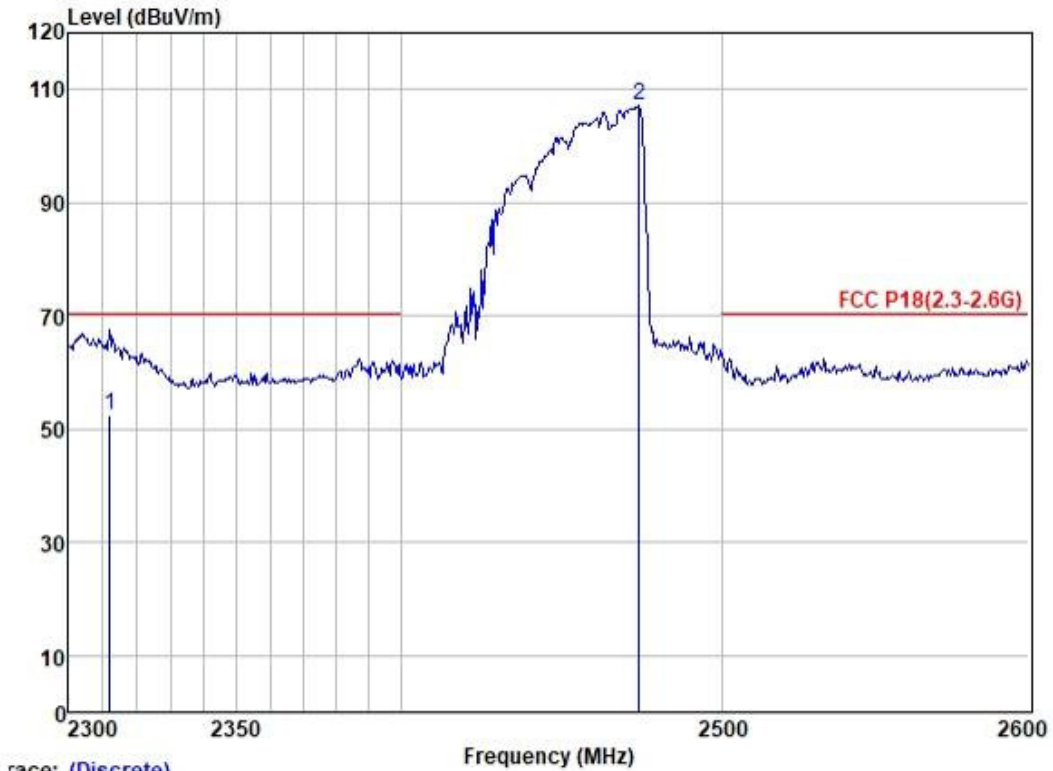
| Trace: (Discrete) | ReadAntenna | Cable | Preamp | Limit | Over | | | | |
|-------------------|-------------|--------|--------|--------|--------|--------|-------|-----------|--------------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2306.495 | 24.21 | 27.13 | 3.31 | 0.00 | 54.65 | 70.37 | -15.72 | HORIZONTAL Average |
| 2 | 2472.536 | 80.51 | 27.46 | 3.55 | 0.00 | 111.52 | ----- | ----- | HORIZONTAL Peak |



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Mode:a; Polarization:Vertical

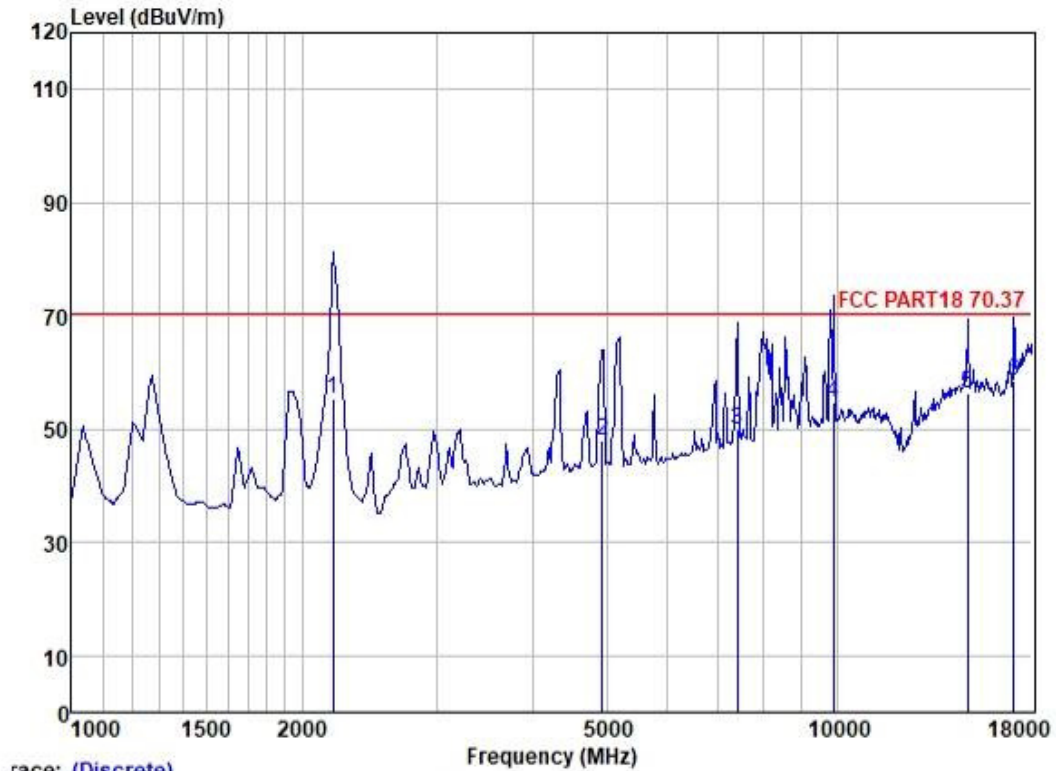


| race: (Discrete) | | | | | | | | | |
|------------------|-------------|--------|--------|--------|--------|--------|-------|-----------|------------------|
| Freq | ReadAntenna | Cable | Preamp | Limit | Over | | | | |
| MHz | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2312.157 | 22.03 | 27.15 | 3.32 | 0.00 | 52.50 | 70.37 | -17.87 | VERTICAL Average |
| 2 | 2473.749 | 76.26 | 27.46 | 3.55 | 0.00 | 107.27 | ----- | ----- | VERTICAL Peak |



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Mode:a; Polarization:Vertical



Trace: (Discrete)

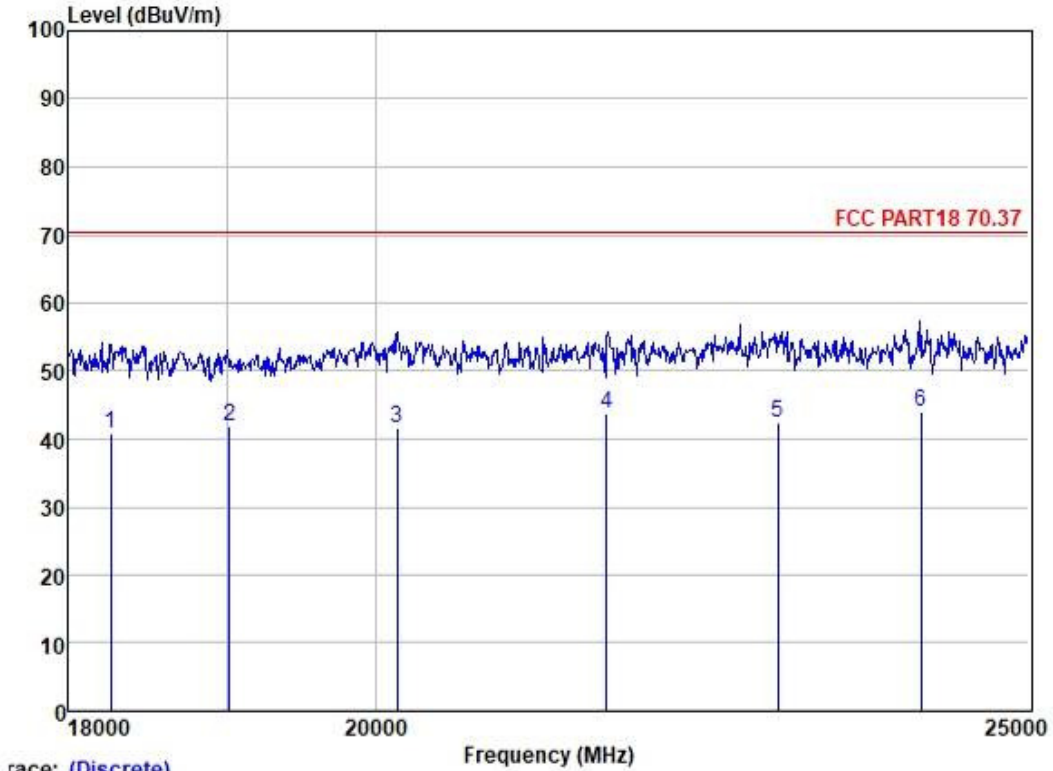
| | ReadAntenna | Cable | Preamp | Limit | Over | | | | |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|------------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2194.998 | 63.15 | 26.59 | 3.20 | 37.65 | 55.29 | 70.37 | -15.08 | VERTICAL Average |
| 2 | 4940.700 | 47.73 | 31.64 | 5.62 | 36.84 | 48.15 | 70.37 | -22.22 | VERTICAL Average |
| 3 | 7414.657 | 44.99 | 36.22 | 6.20 | 37.47 | 49.94 | 70.37 | -20.43 | VERTICAL Average |
| 4 | 9895.349 | 46.43 | 38.63 | 6.97 | 37.41 | 54.62 | 70.37 | -15.75 | VERTICAL Average |
| 5 | 14830.960 | 42.22 | 40.88 | 8.53 | 35.33 | 56.30 | 70.37 | -14.07 | VERTICAL Average |
| 6 | 17038.150 | 42.47 | 42.05 | 9.51 | 35.34 | 58.69 | 70.37 | -11.68 | VERTICAL Average |



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Mode:a; Polarization:Vertical



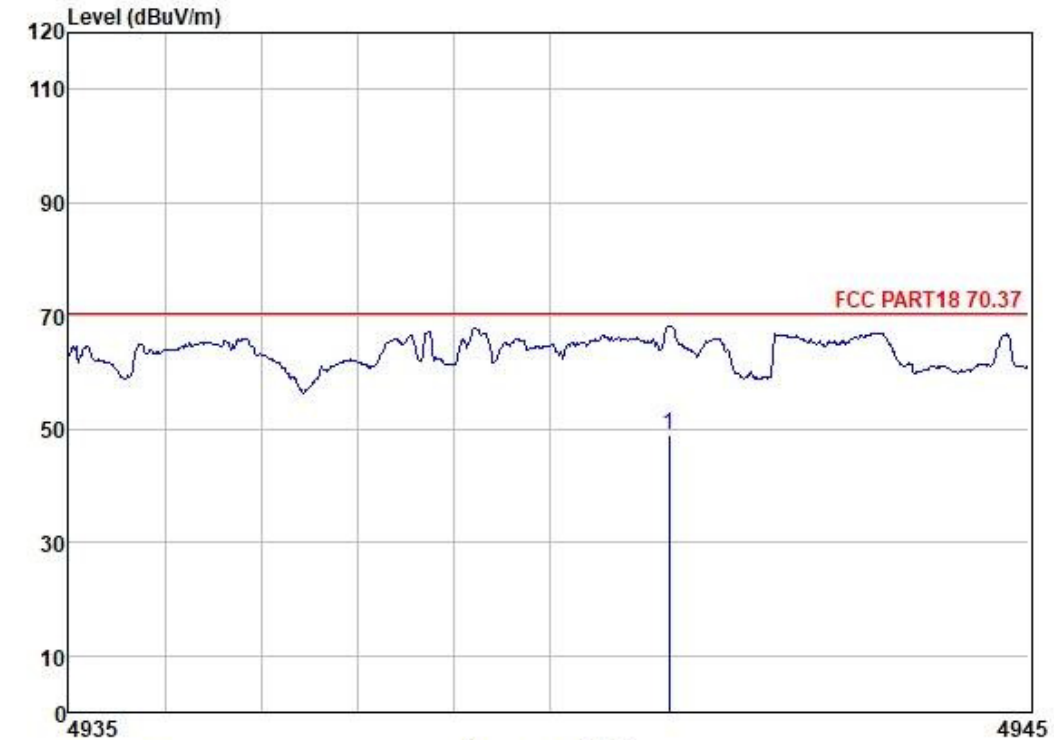
Trace: (Discrete)

| | ReadAntenna | Cable | Preamp | Limit | Over | | | Remark | | |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|----------|---------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | |
| 1 | 18262.060 | 21.98 | 37.92 | 16.57 | 35.60 | 40.87 | 70.37 | -29.50 | VERTICAL | Average |
| 2 | 19015.070 | 22.50 | 38.00 | 16.90 | 35.60 | 41.80 | 70.37 | -28.57 | VERTICAL | Average |
| 3 | 20140.250 | 21.94 | 37.99 | 17.36 | 35.58 | 41.71 | 70.37 | -28.66 | VERTICAL | Average |
| 4 | 21635.470 | 22.41 | 38.12 | 18.43 | 35.34 | 43.62 | 70.37 | -26.75 | VERTICAL | Average |
| 5 | 22938.290 | 19.35 | 39.54 | 19.18 | 35.70 | 42.37 | 70.37 | -28.00 | VERTICAL | Average |
| 6 | 24088.990 | 20.21 | 39.58 | 20.45 | 36.11 | 44.13 | 70.37 | -26.24 | VERTICAL | Average |



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Mode:a; Polarization:Vertical



| Trace: (Discrete) | Frequency (MHz) | | | | | | | | | |
|-------------------|-------------------|--------------------|------------|---------------|--------|------------|------------|-----------|----------|---------|
| Freq | ReadAntenna Level | ReadAntenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | |
| 1 | 4941.248 | 48.62 | 31.64 | 5.62 | 36.84 | 49.04 | 70.37 | -21.33 | VERTICAL | Average |

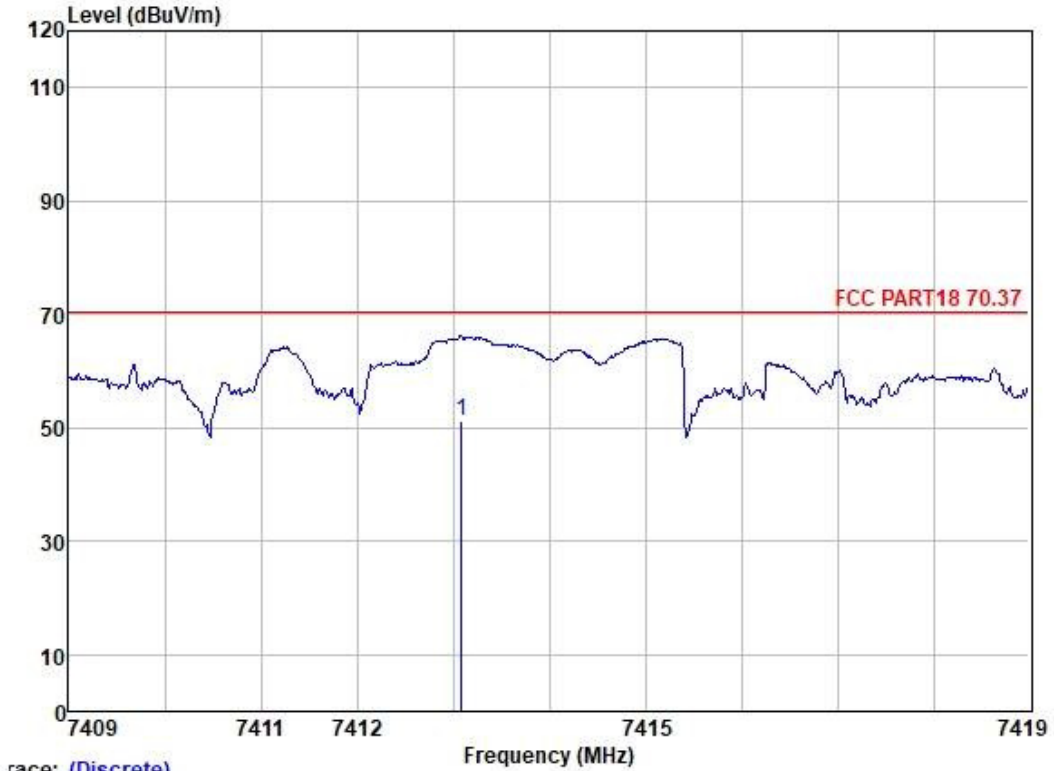


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 Guangzhou Branch Testing Center EEC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Mode:a; Polarization:Vertical



Trace: (Discrete)

| Trace | Freq | ReadAntenna Level | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|-------|----------|-------------------|------------|---------------|--------|------------|------------|-----------|------------------|
| | MHz | dBuV | dB/m | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 7413.088 | 46.19 | 36.22 | 6.20 | 37.47 | 51.14 | 70.37 | -19.23 | VERTICAL Average |



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 Guangzhou Branch Testing Center EEC 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

6.6 Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Frequency Range: 9kHz to 30MHz
 Measurement Distance: 10m
 Detector: Peak for pre-scan, Average for the final result
 (200Hz Resolution Bandwidth for 9kHz to 150kHz;
 9kHz Resolution Bandwidth for 150kHz to 30MHz)
 Limit: (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
 (b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

| RF Power generated by equipment(watts) | Field strength Limit(uV/m) @300m |
|--|----------------------------------|
| Below 500 | 25 |
| 500 or more | 25*SQRT(power/500) |

Power =870.9 W according to clause 6.1.2

Limit=20lg(25*SQRT(power/500))+20lg(300/10)=**59.91dBuV/m @ 10m** distance.

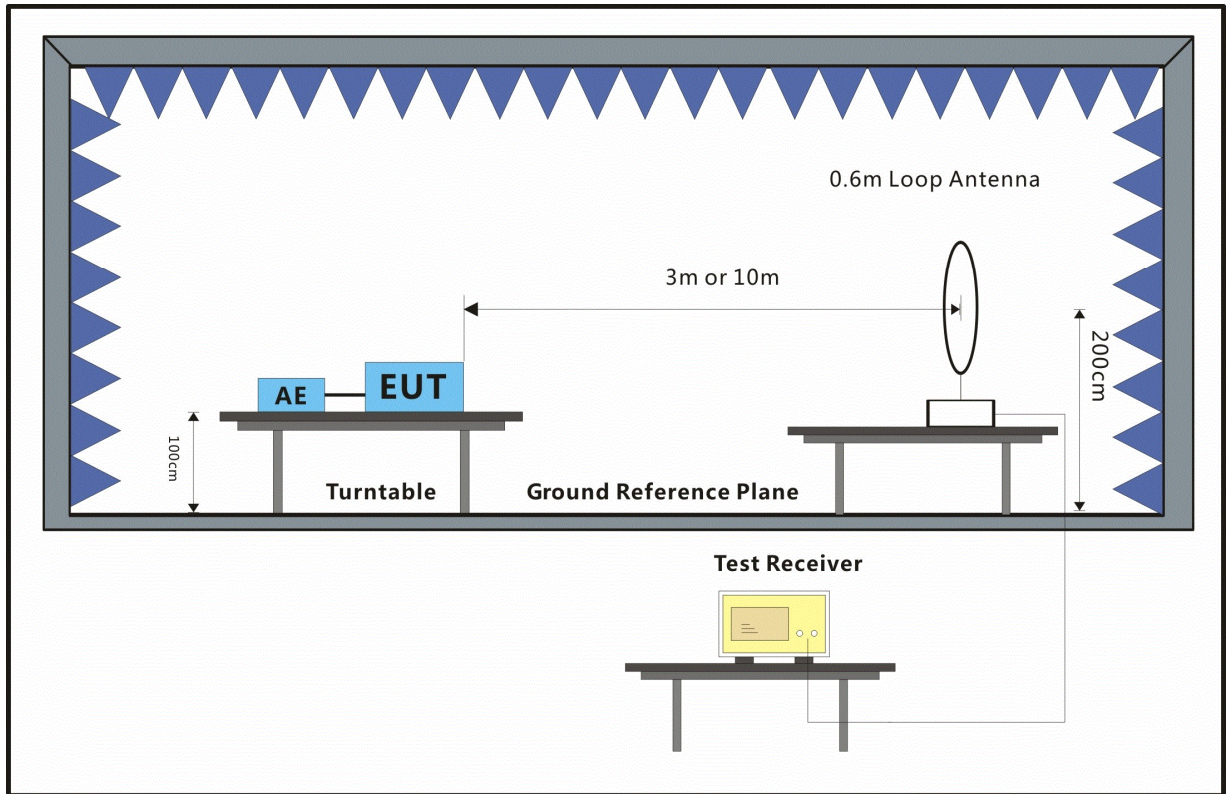
6.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar
 Pretest these modes to find the worst case:
 a: Test the EUT in microwave mode with maximum power.
 b: Test the EUT in microwave mode with middle power.
 c: Test the EUT in microwave mode with lowest power.
 The worst case for final test:
 a: Test the EUT in microwave mode with maximum power.



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6.6.2 Test Setup Diagram



6.6.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by loop antenna with 2 orthogonal polarities.

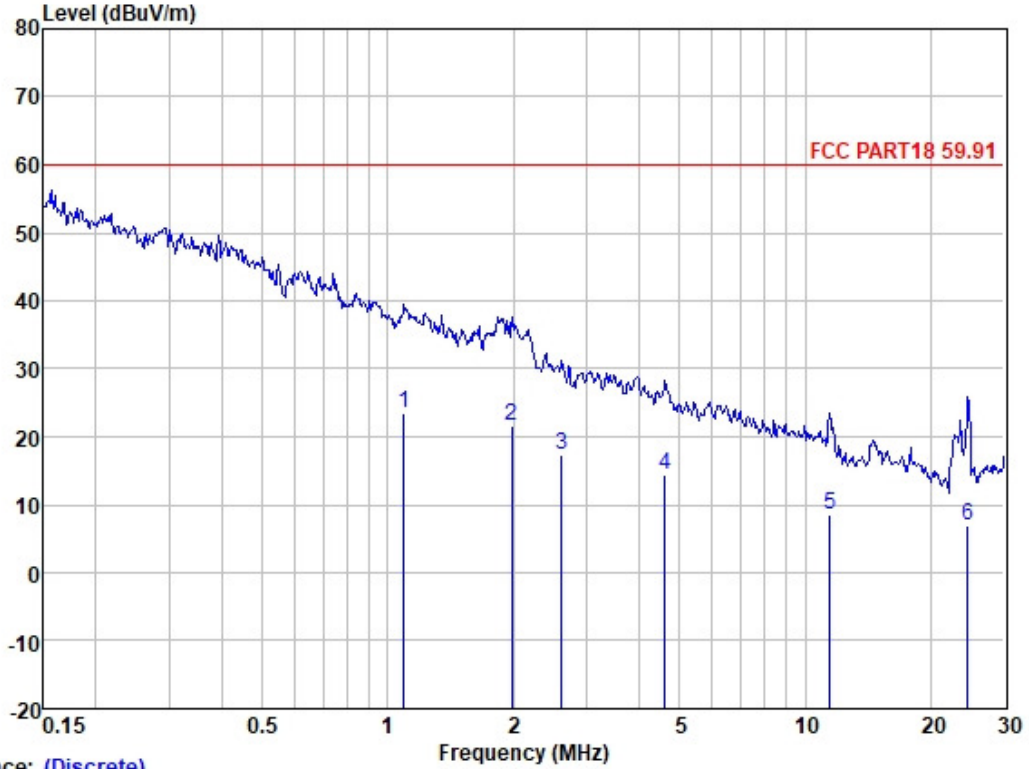
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



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 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

Mode:a; Polarization:Horizontal



Trace: (Discrete)

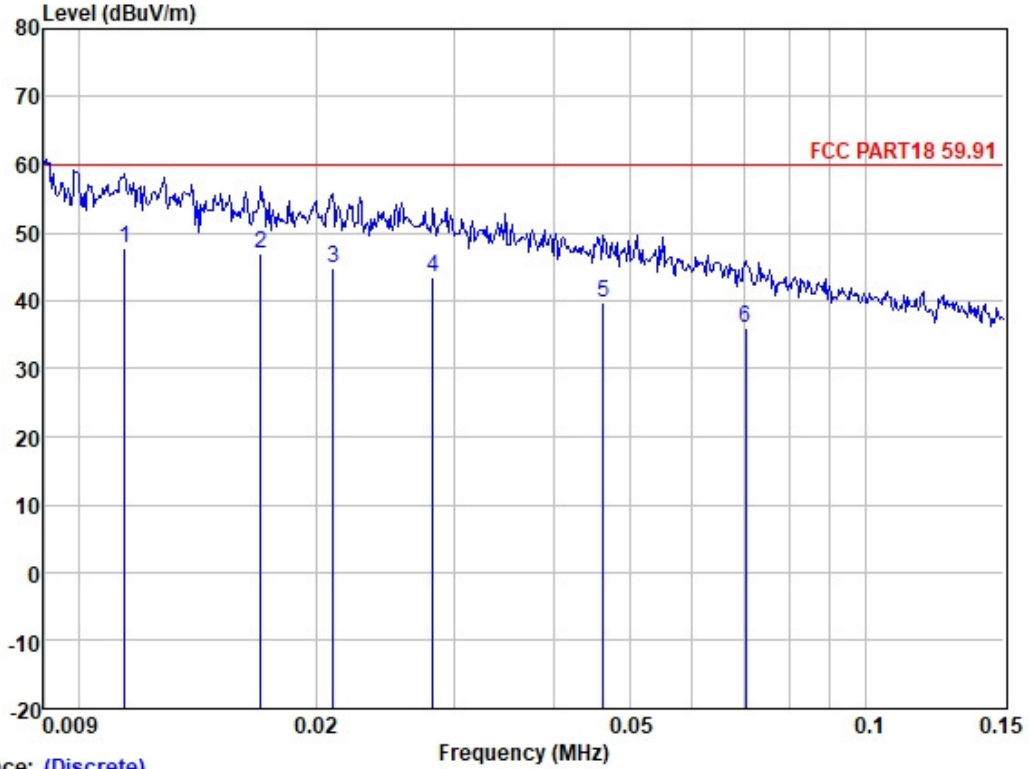
Site : SGS
 Condition: FCC PART18 59.91 10m HORIZONTAL
 Job :
 Model :
 Power :
 Test Mode:

| | 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 | 1.094 | 42.26 | 10.44 | 0.14 | 29.41 | 23.43 | 59.91 | -36.48 | HORIZONTAL Average |
| 2 | 1.980 | 39.68 | 11.00 | 0.20 | 29.38 | 21.50 | 59.91 | -38.41 | HORIZONTAL Average |
| 3 | 2.608 | 35.39 | 10.91 | 0.29 | 29.37 | 17.22 | 59.91 | -42.69 | HORIZONTAL Average |
| 4 | 4.622 | 32.83 | 10.52 | 0.35 | 29.33 | 14.37 | 59.91 | -45.54 | HORIZONTAL Average |
| 5 | 11.438 | 27.56 | 9.76 | 0.54 | 29.28 | 8.58 | 59.91 | -51.33 | HORIZONTAL Average |
| 6 | 24.529 | 26.75 | 8.31 | 0.92 | 29.15 | 6.83 | 59.91 | -53.08 | HORIZONTAL Average |



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Mode:a; Polarization:Horizontal



Trace: (Discrete)

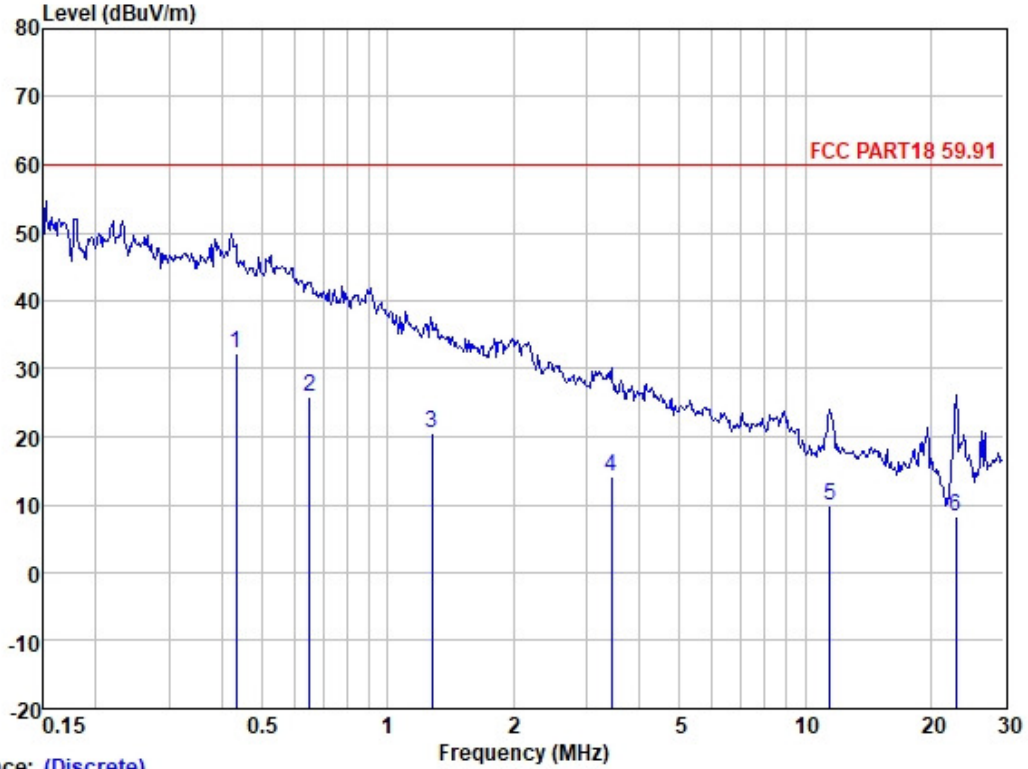
Site : SGS
 Condition: FCC PART18 59.91 10m HORIZONTAL
 Job :
 Model :
 Power :
 Test Mode:

| | 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 | 60.28 | 15.50 | 0.05 | 28.20 | 47.63 | 59.91 | -12.28 | HORIZONTAL | Average |
| 2 | 61.69 | 13.41 | 0.05 | 28.31 | 46.84 | 59.91 | -13.07 | HORIZONTAL | Average |
| 3 | 60.17 | 12.97 | 0.05 | 28.41 | 44.78 | 59.91 | -15.13 | HORIZONTAL | Average |
| 4 | 59.50 | 12.71 | 0.05 | 28.67 | 43.59 | 59.91 | -16.32 | HORIZONTAL | Average |
| 5 | 56.90 | 11.94 | 0.05 | 29.25 | 39.64 | 59.91 | -20.27 | HORIZONTAL | Average |
| 6 | 54.12 | 11.15 | 0.05 | 29.39 | 35.93 | 59.91 | -23.98 | HORIZONTAL | Average |



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Mode:a; Polarization:Vertical



Trace: (Discrete)

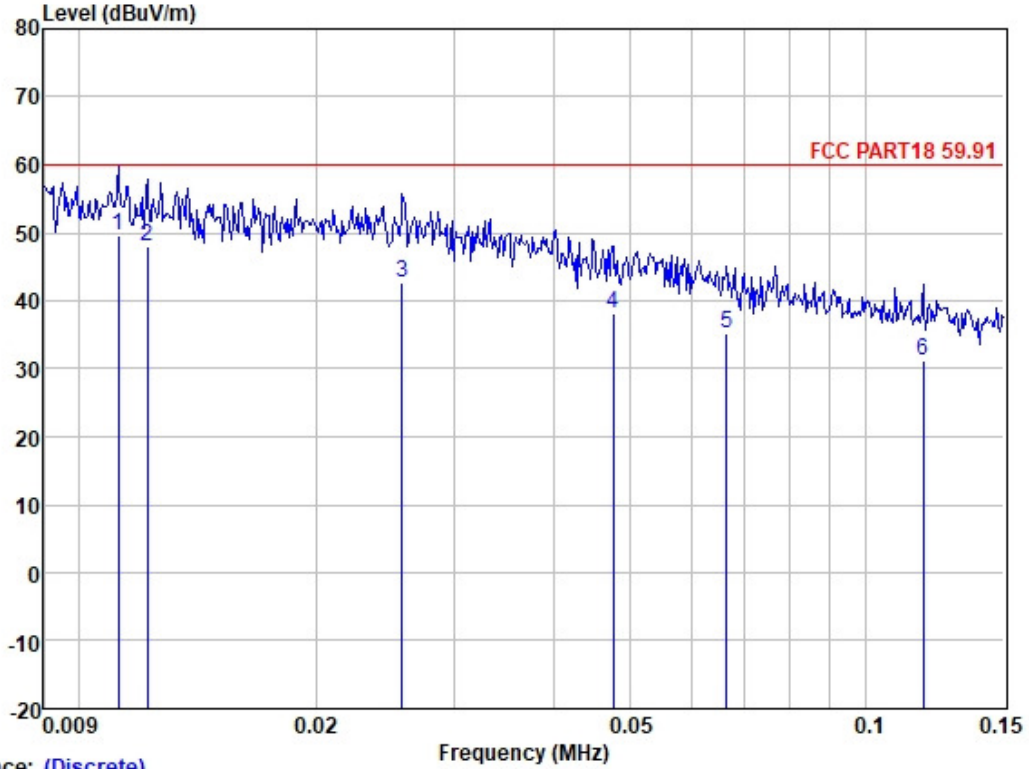
Site : SGS
 Condition: FCC PART18 59.91 10m VERTICAL
 Job :
 Model :
 Power :
 Test Mode:

| | 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 | 0.433 | 50.93 | 10.71 | 0.07 | 29.42 | 32.29 | 59.91 | -27.62 | VERTICAL | Average |
| 2 | 0.651 | 44.44 | 10.61 | 0.11 | 29.42 | 25.74 | 59.91 | -34.17 | VERTICAL | Average |
| 3 | 1.276 | 39.32 | 10.55 | 0.15 | 29.40 | 20.62 | 59.91 | -39.29 | VERTICAL | Average |
| 4 | 3.436 | 32.60 | 10.65 | 0.32 | 29.35 | 14.22 | 59.91 | -45.69 | VERTICAL | Average |
| 5 | 11.438 | 28.94 | 9.76 | 0.54 | 29.28 | 9.96 | 59.91 | -49.95 | VERTICAL | Average |
| 6 | 23.018 | 28.21 | 8.34 | 0.86 | 29.17 | 8.24 | 59.91 | -51.67 | VERTICAL | Average |



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Mode:a; Polarization:Vertical



Trace: (Discrete)

Site : SGS
 Condition: FCC PART18 59.91 10m VERTICAL
 Job :
 Model :
 Power :
 Test Mode:

| | 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 | 0.011 | 62.32 | 15.54 | 0.05 | 28.19 | 49.72 | 59.91 | -10.19 | VERTICAL Average |
| 2 | 0.012 | 60.85 | 15.29 | 0.05 | 28.21 | 47.98 | 59.91 | -11.93 | VERTICAL Average |
| 3 | 0.026 | 58.29 | 12.82 | 0.05 | 28.56 | 42.60 | 59.91 | -17.31 | VERTICAL Average |
| 4 | 0.048 | 55.31 | 11.92 | 0.05 | 29.27 | 38.01 | 59.91 | -21.90 | VERTICAL Average |
| 5 | 0.067 | 53.03 | 11.39 | 0.05 | 29.38 | 35.09 | 59.91 | -24.82 | VERTICAL Average |
| 6 | 0.118 | 50.24 | 10.46 | 0.05 | 29.47 | 31.28 | 59.91 | -28.63 | VERTICAL Average |

--End of Report--



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