

TEST REPORT

Application No.: SHCR2209002071CO
FCC ID: 2ARTN-00009
IC: 24552-00009
Applicant: Honeywell (Beijing) Technology Solutions Labs Co. Ltd.
Address of Applicant: A1 Building, C&W Industry Zone, No. 14 Jiuxianqiao Road, Chaoyang District, Beijing 100015 China
Manufacturer: Honeywell (Beijing) Technology Solutions Labs Co. Ltd.
Address of Manufacturer: A1 Building, C&W Industry Zone, No. 14 Jiuxianqiao Road, Chaoyang District, Beijing 100015 China
Factory: Ademco De Juarez S. De R.L. De C.V. 5201
Address of Factory: Av. Rosa Ma.Y.Fuentes No. 7070 Parque industrial fuentes 32437 Juarez C.P. MEXICO

Equipment Under Test (EUT):

EUT Name: Indoor Air Quality Sensor
Model No.: TR50-5D-BW, TR50-5N-BW, TR50-3D-BW, TR50-3N-BW ♣
Remark ♣: Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark: Honeywell
Standard(s) : 47 CFR Part 15, Subpart C 15.247
 RSS-247 Issue 2, February 2017
 RSS-Gen Issue 5 April 2018 Amendment 2

Date of Receipt: 2022-09-20
Date of Test: 2022-09-25 to 2022-11-18
Date of Issue: 2022-11-18

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

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

Parlam Zhan

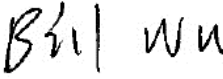
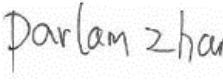
Parlam Zhan
Laboratory Manager



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| Revision Record | | | |
|-----------------|-------------|------------|--------|
| Version | Description | Date | Remark |
| 00 | Original | 2022-11-18 | / |
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| | | | |
|---------------------------------|--|--|--|
| Authorized for issue by: | | | |
| | |  | |
| | | <hr/> Bill Wu/Project Engineer | |
| | |  | |
| | | <hr/> Parlam Zhan/Reviewer | |



2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|---|----------------------------------|------------------------------------|---|---------------------|
| Item | Standard | Method | Requirement | Result |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.247 | N/A | 47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) | Pass |
| Radio Spectrum Matter Part | | | | |
| Item | Standard | Method | Requirement | Result |
| Conducted Peak Output Power | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.5 | 47 CFR Part 15, Subpart C 15.247(b)(2) | Pass |
| 20dB Bandwidth | | ANSI C63.10 (2013) Section 7.8.7 | 47 CFR Part 15, Subpart C 15.247(a)(1) | Pass |
| Carrier Frequencies Separation | | ANSI C63.10 (2013) Section 7.8.2 | 47 CFR Part 15, Subpart C 15.247a(1) | Pass |
| Hopping Channel Number | | ANSI C63.10 (2013) Section 7.8.3 | 47 CFR Part 15, Subpart C 15.247a(1)(i) | Pass |
| Dwell Time | | ANSI C63.10 (2013) Section 7.8.4 | 47 CFR Part 15, Subpart C 15.247a(1)(i) | Pass |
| Conducted Band Edges Measurement | | ANSI C63.10 (2013) Section 7.8.6 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |
| Conducted Spurious Emissions | | ANSI C63.10 (2013) Section 7.8.8 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |
| Radiated Emissions which fall in the restricted bands | | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Spurious Emissions Below 1GHz | | ANSI C63.10 (2013) Section 6.4,6.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Spurious Emissions Above 1GHz | | ANSI C63.10 (2013) Section 6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| 99% Bandwidth | | RSS-247 Issue 2, February 2017 | ANSI C63.10 Section 6.9.3 | RSS-Gen Section 6.7 |

Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model TR50-5D-BW was fully tested and TR50-5N-BW, TR50-3D-BW, TR50-3N-BW just test RSE since their differences were the model number, appearance and below table.

| | TR50-5D-BW | TR50-5N-BW | TR50-3D-BW | TR50-3N-BW |
|--------------------|------------|------------|------------|------------|
| PM Sensor | ✓ | ✓ | × | × |
| CO2 Sensor | ✓ | ✓ | ✓ | ✓ |
| TVOC Sensor | ✓ | ✓ | × | × |
| Humidity Sensor | ✓ | ✓ | ✓ | ✓ |
| Temperature Sensor | ✓ | ✓ | ✓ | ✓ |
| LED Display | ✓ | × | ✓ | × |



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4 General Information

4.1 Details of E.U.T.

| | |
|----------------------|--------------------------------------|
| Power supply: | DC 24V |
| Test Voltage: | DC 24V |
| Operation Frequency: | 902.5-927.5MHz |
| Modulation Type: | FSK |
| Number of Channels: | 51 |
| Channel Spacing: | 500KHz |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | 1.008 dBi (Provided by manufacturer) |
| S/N: | 2233TJS15D0H0055 |
| Firmware Version: | V 0.0.21.0 |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------|
| Laptop | LENOVO | L460 | - |

4.3 Power level setting using in test:

| Channel | Power setting |
|---------|---------------|
| 0 | Default |
| 25 | Default |
| 51 | Default |



4.4 Measurement Uncertainty & Decision Rule

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 8.4 x 10 ⁻⁸ |
| 2 | Timeout | 2s |
| 3 | Duty cycle | 0.4% |
| 4 | Occupied Bandwidth | 3% |
| 5 | RF conducted power | 0.6dB |
| 6 | RF power density | 2.9dB |
| 7 | Conducted Spurious emissions | 0.75dB |
| 8 | RF Radiated power | 5.2dB (Below 1GHz) |
| | | 5.9dB (Above 1GHz) |
| 9 | Radiated Spurious emission test | 4.2dB (Below 30MHz) |
| | | 4.5dB (30MHz-1GHz) |
| | | 5.1dB (1GHz-6GHz) |
| | | 5.4dB (6GHz-18GHz) |
| 10 | Temperature test | 1°C |
| 11 | Humidity test | 3% |
| 12 | Supply voltages | 1.5% |
| 13 | Time | 3% |

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).



4.6 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|---------------------------|--------------|-------------------------------|-----------------------|------------|--------------|
| RF Conducted Test | | | | | |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2021-12-20 | 2022-12-19 |
| Spectrum Analyzer | Keysight | N9020B | SHEM241-1 | 2021-12-20 | 2022-12-19 |
| Spectrum Analyzer | Agilent | N9020A | SHEM181-1 | 2022-08-02 | 2023-08-01 |
| Signal Generator | R&S | SMR20 | SHEM006-1 | 2022-08-02 | 2023-08-01 |
| Signal Generator | Agilent | N5182A | SHEM182-1 | 2022-08-02 | 2023-08-01 |
| Communication Tester | R&S | CMW270 | SHEM183-1 | 2022-07-25 | 2023-07-24 |
| Communication Tester | R&S | CMW500 | SHEM268-1 | 2022-07-25 | 2023-07-24 |
| Power Sensor | Keysight | U2021XA * 4 | SHEM184-1 | 2022-08-02 | 2023-08-01 |
| Splitter | Anritsu | MA1612A | SHEM185-1 | / | / |
| Coupler | e-meca | 803-S-1 | SHEM186-1 | / | / |
| High-low Temp Cabinet | Suzhou Zhihe | TL-40 | SHEM087-1 | 2022-11-08 | 2024-11-07 |
| AC Power Stabilizer | APC | KDF-31020T-V0-F0 | SHEM216-1 | 2021-12-20 | 2022-12-19 |
| DC Power Supply | MCH | MCH-303A | SHEM210-1 | 2021-12-20 | 2022-12-19 |
| Conducted test Cable | / | RF01~RF04 | / | 2021-12-20 | 2022-12-19 |
| Switcher | Tonscend | JS0806 | SHEM184-1 | 2022-08-02 | 2023-08-01 |
| Test software | Tonscend | JS Tonscend BT/WIFI System | Version: 2.6 | / | / |
| Coaxial Cable | TST | | SHEM263-1 | 2022-08-02 | 2023-08-01 |
| Test software | TST | TST PASS | Version: 2.0 | / | / |
| RF Radiated Test | | | | | |
| EMI test Receiver | R&S | ESU40 | SHEM051-1 | 2021-12-20 | 2022-12-19 |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2021-12-20 | 2022-12-19 |
| Communication Tester | R&S | CMW500 | SHEM268-1 | 2022-07-25 | 2023-07-24 |
| Loop Antenna (9kHz-30MHz) | Schwarzbeck | FMZB1519 | SHEM135-1 | 2021-12-20 | 2022-12-19 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM048-1 | 2021-09-11 | 2023-09-10 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM202-1 | 2021-05-07 | 2023-05-06 |
| Horn Antenna (1-18GHz) | Schwarzbeck | HF906 | SHEM009-1 | 2022/8/11 | 2024-08-10 |
| Horn Antenna (1-18GHz) | Schwarzbeck | BBHA9120D | SHEM050-1 | 2021-09-18 | 2023-09-17 |
| Horn Antenna (14-40GHz) | Schwarzbeck | BBHA 9170 | SHEM049-1 | 2021-09-18 | 2023-09-17 |
| Pre-Amplifier | HP | 8447D | SHEM236-1 | 2022-08-02 | 2023-08-01 |
| High-amplifier (14-40GHz) | Schwarzbeck | 10001 | SHEM049-2 | 2021-12-20 | 2022-12-19 |
| Band Filter | LORCH | 9BRX-875/X150 | SHEM156-1 | / | / |
| Band Filter | LORCH | 13BRX-1950/X500 | SHEM083-2 | / | / |
| Band Filter | LORCH | 5BRX-2400/X200 | SHEM155-1 | / | / |
| Band Filter | LORCH | 5BRX-5500/X1000 | SHEM157-2 | / | / |
| High pass Filter | Wainwright | WHK3.0/18G | SHEM157-1 | / | / |
| High pass Filter | Wainwright | WHKS1700 | SHEM157-3 | / | / |
| Semi/Fully Anechoic | ST | 11*6*6M | SHEM078-2 | 2020-05-25 | 2023-05-24 |
| RE test Cable | / | RE01, RE02, RE06 | / | 2022-01-07 | 2023-01-06 |
| Test software | ESE | E3 | Version: 6.111221a | / | / |



6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is PCB antenna and no consideration of replacement. The best case gain of the antenna is 1.008 dBi.

Antenna location: Refer to internal photo.



7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(2)
 Test Method: ANSI C63.10 (2013) Section 7.8.5
 Limit:

| Frequency range(MHz) | Output power of the intentional radiator(watt) |
|----------------------|--|
| 902-928 | 1 for ≥ 50 hopping channels |
| | 0.25 for $25 \leq$ hopping channels < 50 |
| | 1 for digital modulation |
| 2400-2483.5 | 1 for ≥ 75 non-overlapping hopping channels |
| | 0.125 for all other frequency hopping systems |
| | 1 for digital modulation |
| 5725-5850 | 1 for frequency hopping systems and digital modulation |

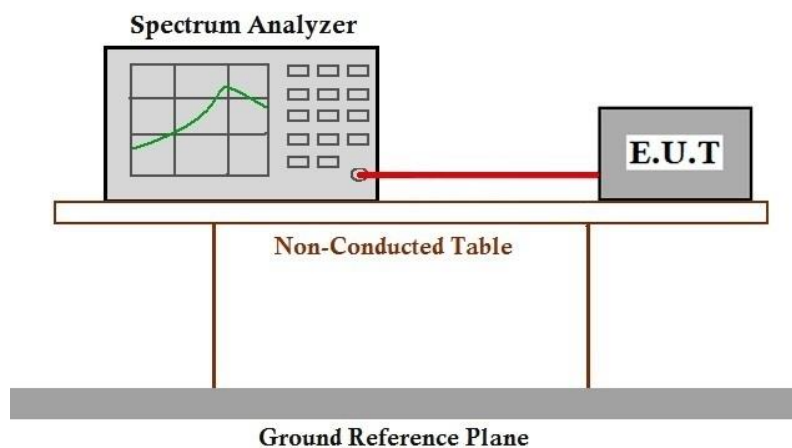
7.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.2 °C Humidity: 73.6 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation. |

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Test Data:

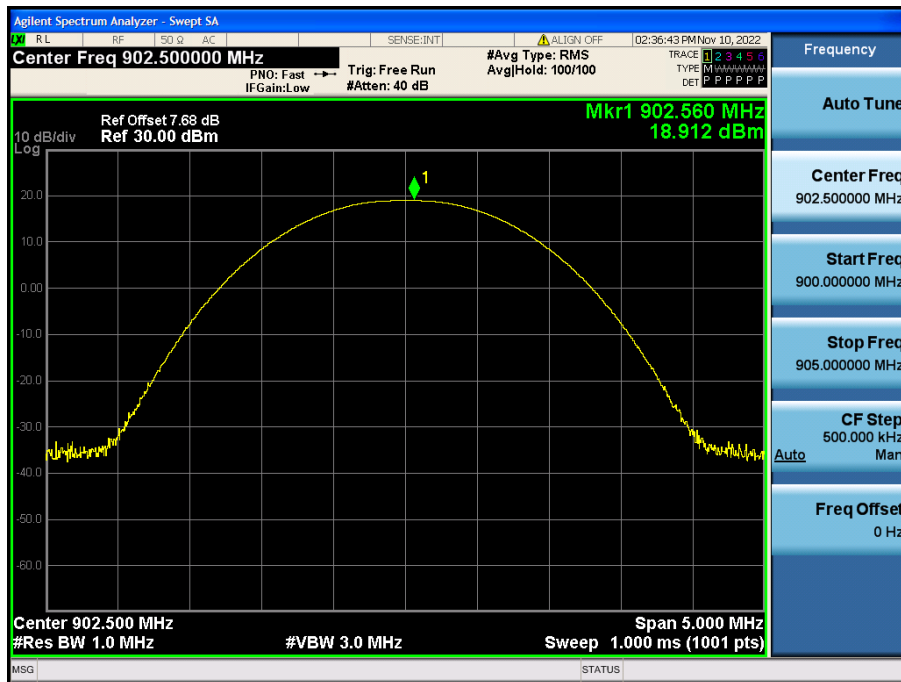
| Test Channel(MHz) | Reading Power (dBm) | Output Power (dBm) | Limit (dBm) | Result |
|-------------------|---------------------|--------------------|-------------|--------|
| 902.5 | 18.912 | 19.412 | 30 | Pass |
| 915.0 | 19.087 | 19.587 | | Pass |
| 927.5 | 19.035 | 19.535 | | Pass |

Remark: 1) Output Peak Power = Reading Peak Power + Cable loss

2) Cable loss=0.5dB

Test plot as follows:

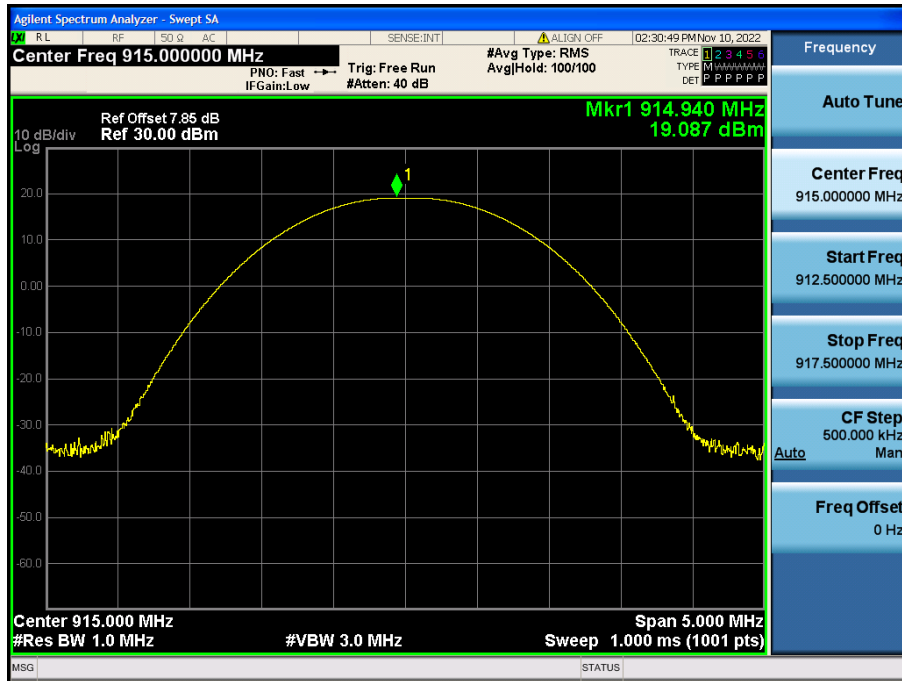
Test Channel: 902.5MHz



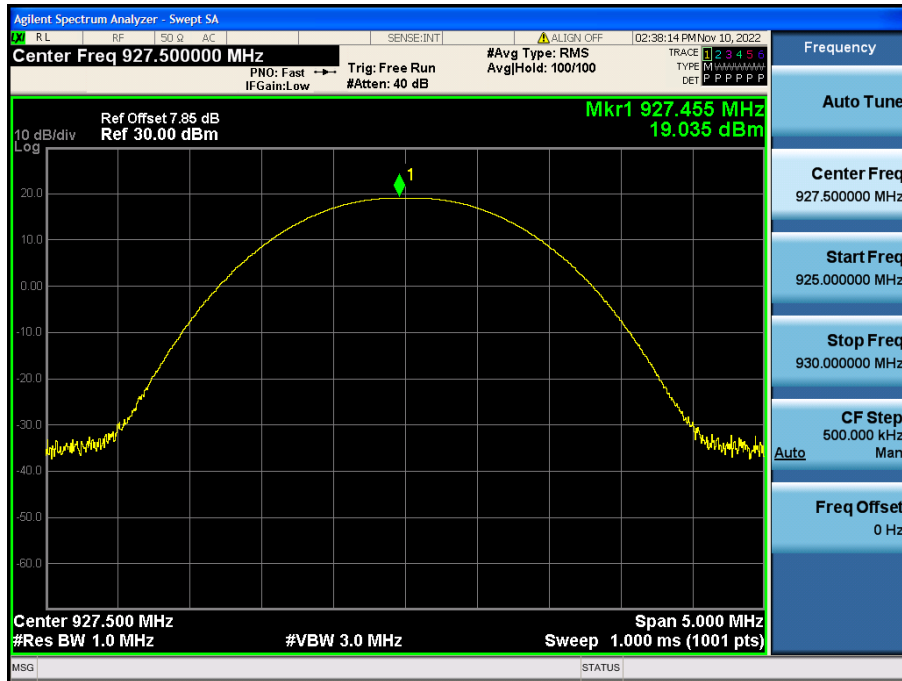
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Test Channel: 915.0MHz



Test Channel: 927.5MHz



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7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)

Test Method: ANSI C63.10 (2013) Section 7.8.7

Limit:

| 20 dB bandwidth of the hopping channel | Hopping frequencies | Average time of occupancy |
|--|------------------------------|--|
| less than 250 kHz | least 50 hopping frequencies | shall not be greater than 0.4 seconds within a 20 second period |
| 250 kHz to 500kHz | least 25 hopping frequencies | shall not be greater than 0.4 seconds within a 10 second period. |

7.2.1 E.U.T. Operation

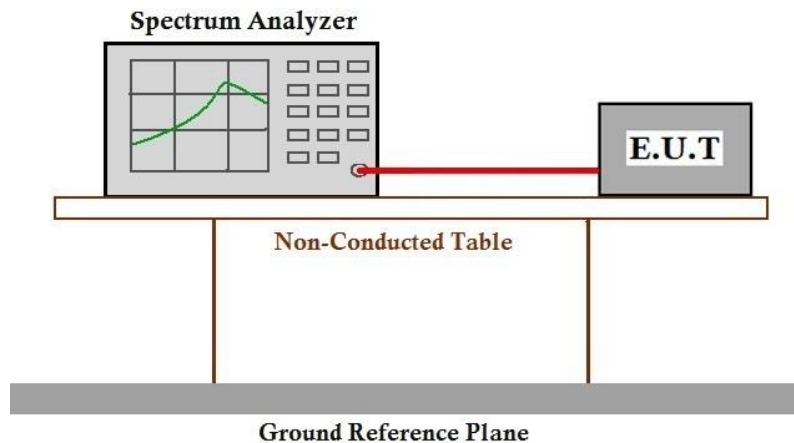
Operating Environment:

Temperature: 20.1 °C Humidity: 73.6 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation. |

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data



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| Test Mode | Test Frequency(MHz) | Bandwidth(KHz) |
|-------------|---------------------|----------------|
| Non-Hopping | 902.5 | 286 |
| | 915.0 | 280 |
| | 927.5 | 286 |

Test plot as follows:

Test Channel: 902.5MHz



Test Channel: 915.0MHz



Test Channel: 927.5MHz



7.3 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)

Test Method: ANSI C63.10 (2013) Section 7.8.2

Limit:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.3.1 E.U.T. Operation

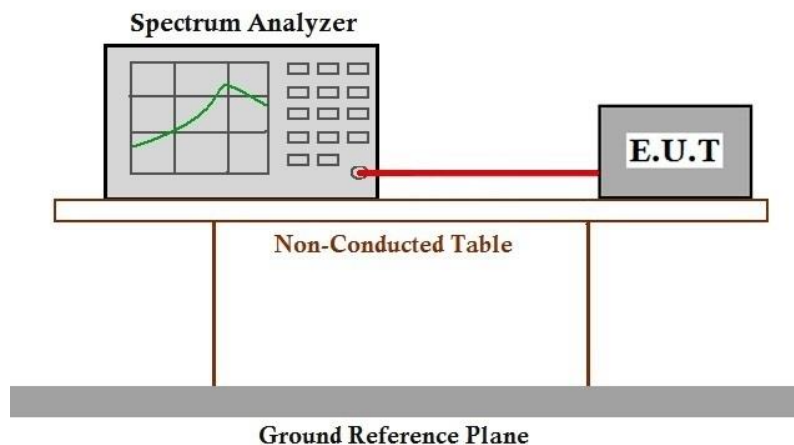
Operating Environment:

Temperature: 20.2 °C Humidity: 73.5 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 02 | TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation. |

7.3.3 Test Setup Diagram



| Test Channel | Carrier Frequencies Separated (KHz) | Limit (KHz) | Test Result |
|-----------------------------------|-------------------------------------|-------------|-------------|
| Middle Channels (Channel 25 & 26) | 501.0 | 186.67 | Pass |

Remark: 1. 20dB bandwidth reference Section 7.5



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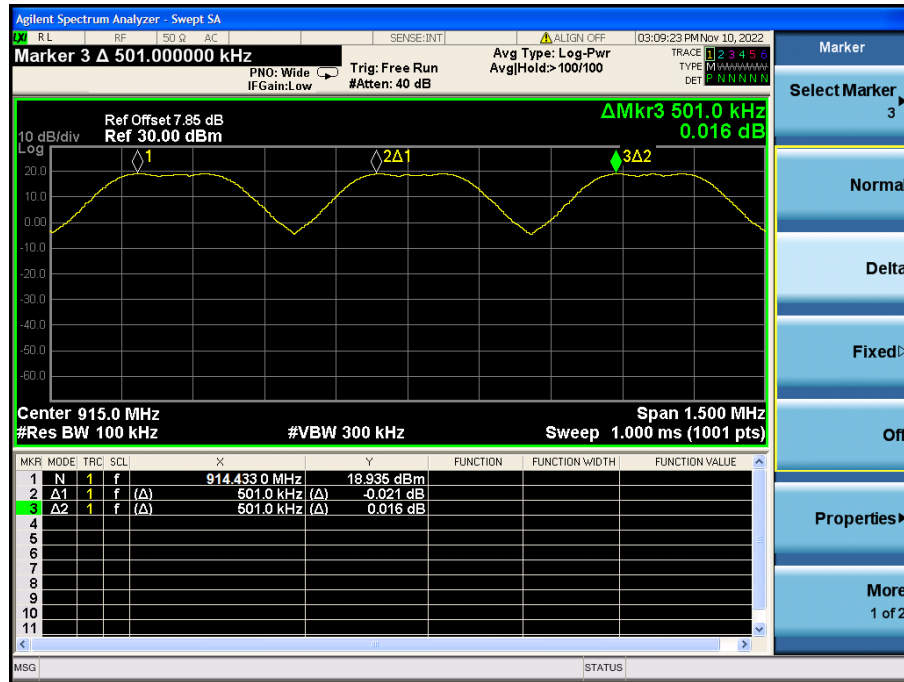
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7.4 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(i)
 Test Method: ANSI C63.10 (2013) Section 7.8.3
 Limit:

| Frequency range(MHz) | Number of hopping channels (minimum) |
|----------------------|--------------------------------------|
| 902-928 | 50 for 20dB bandwidth <250kHz |
| | 25 for 20dB bandwidth ≥250kHz |
| 2400-2483.5 | 15 |
| 5725-5850 | 75 |

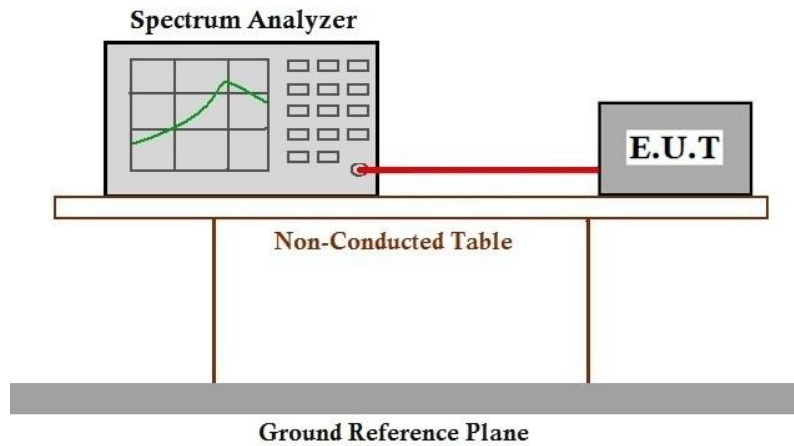
7.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.2 °C Humidity: 73.5 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 02 | TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation. |

7.4.3 Test Setup Diagram

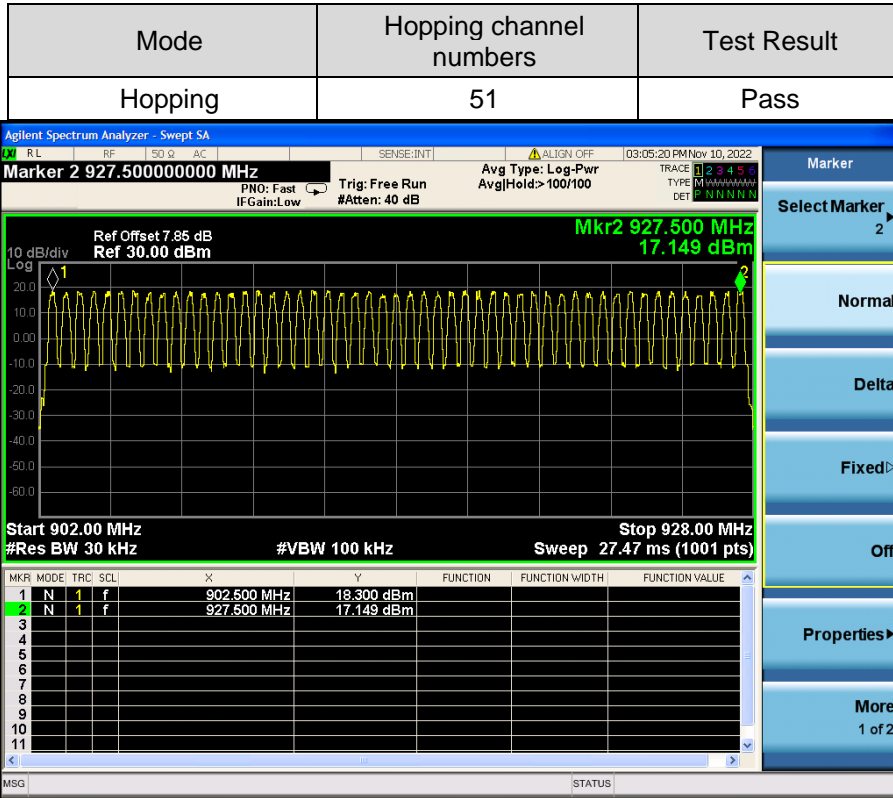


7.4.4 Measurement Procedure and Data



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7.5 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(i)
 Test Method: ANSI C63.10 (2013) Section 7.8.4
 Limit:

| Frequency(MHz) | Limit |
|----------------|---|
| 902-928 | 0.4S within a 20S period(20dB bandwidth<250kHz) |
| | 0.4S within a 10S period(20dB bandwidth≥250kHz) |
| 2400-2483.5 | 0.4S within a period of 0.4S multiplied by the number of hopping channels |
| 5725-5850 | 0.4S within a 30S period |

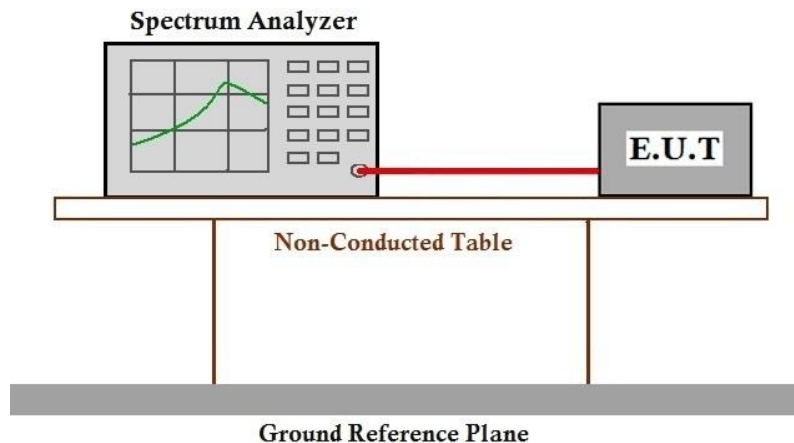
7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.2 °C Humidity: 73.5 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 02 | TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation. |

7.5.3 Test Setup Diagram



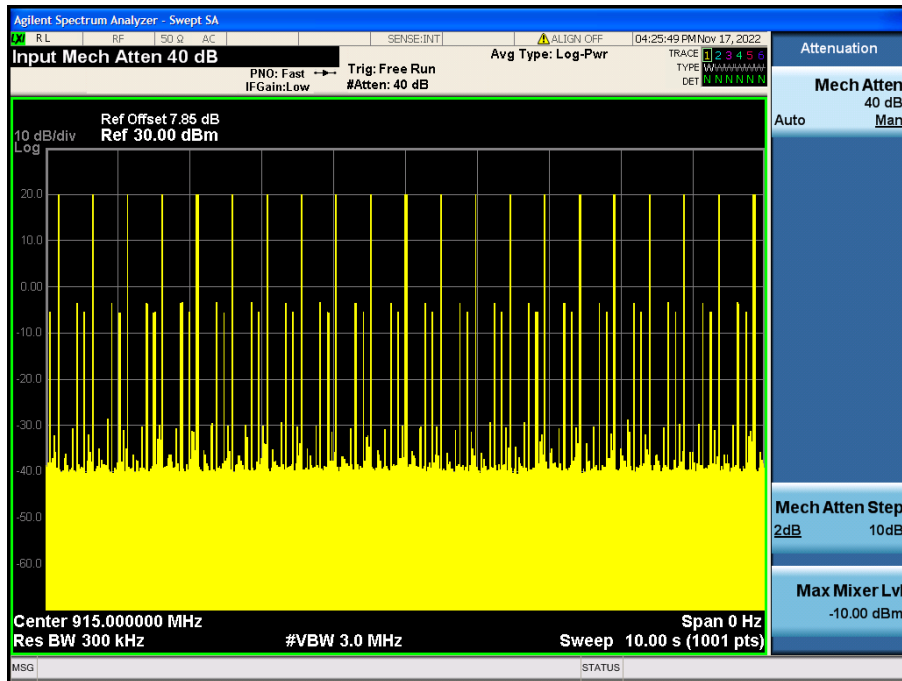
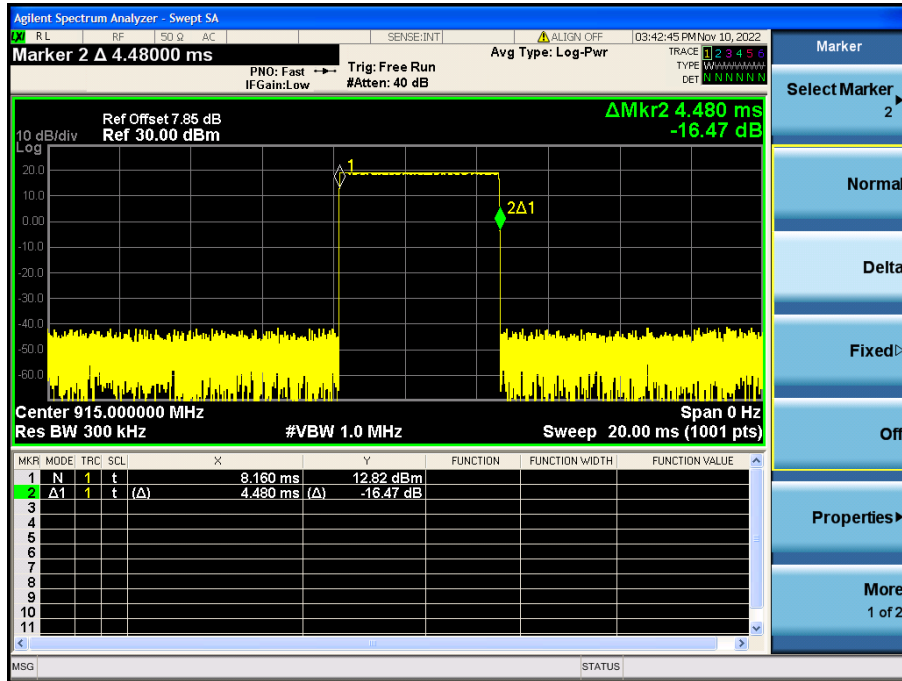
7.5.4 Measurement Procedure and Data



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| Test Mode | Test Frequency | Emission Width (ms) | Number of Hopping Channel in 10s | Average Occupancy Time (s) | Limit (s) | Test Result |
|-----------|----------------|---------------------|----------------------------------|----------------------------|-----------|-------------|
| Hopping | 915MHz | 4.48 | 21 | 0.094 | 0.4 | Pass |



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7.6 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 7.8.6

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.6.1 E.U.T. Operation

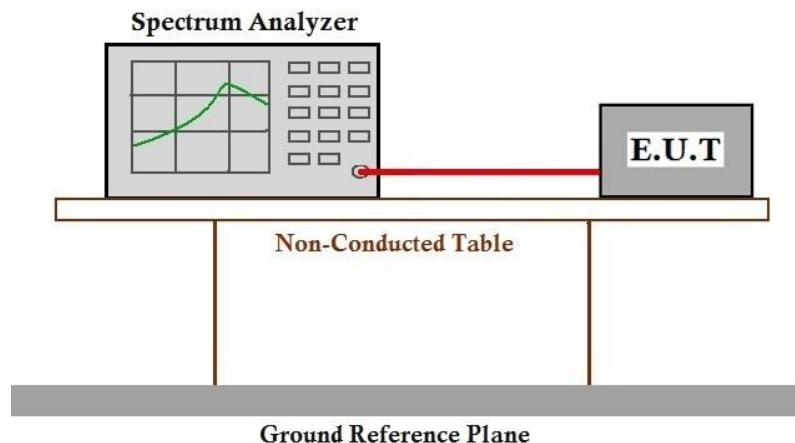
Operating Environment:

Temperature: 20.2 °C Humidity: 73.3 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 02 | TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation. |
| Final test | 03 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation. |

7.6.3 Test Setup Diagram



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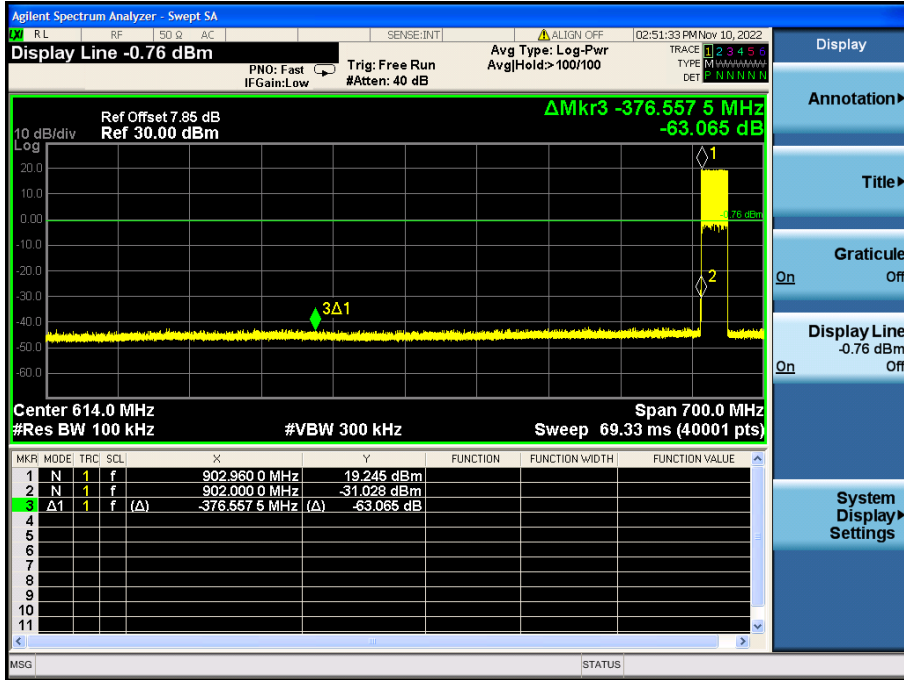
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7.6.4 Measurement Procedure and Data

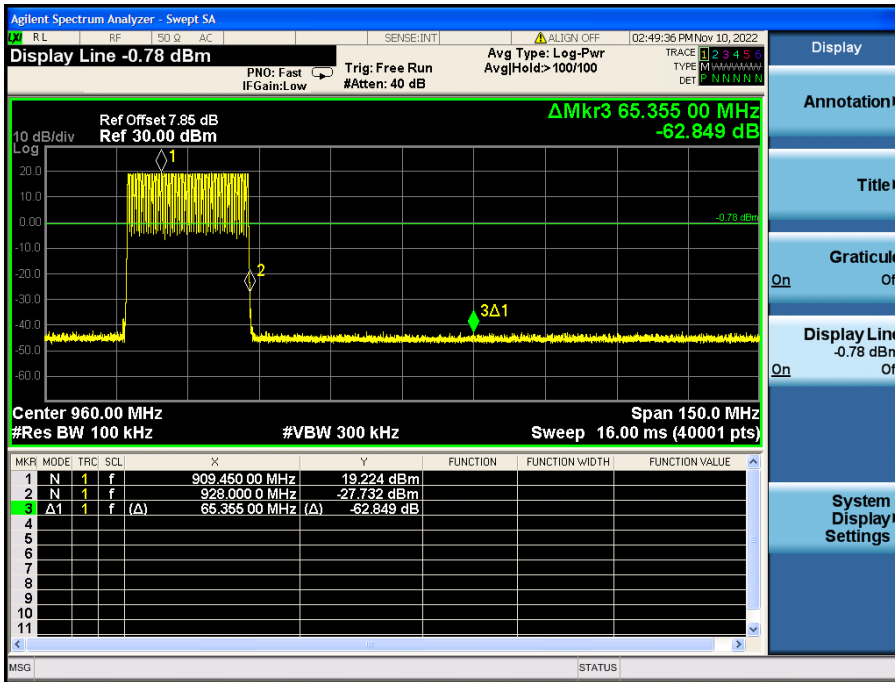
Test mode:Hopping



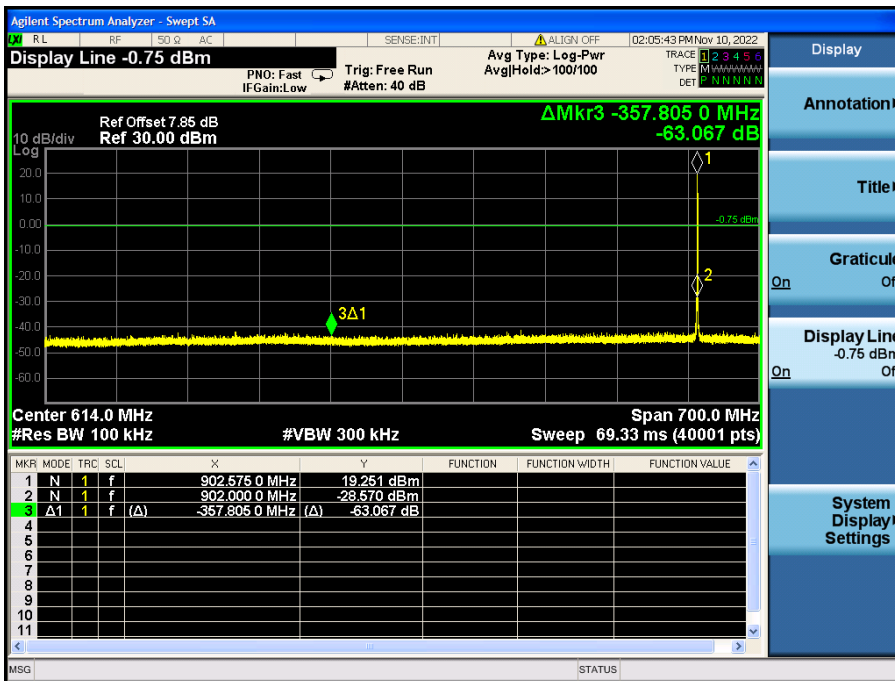
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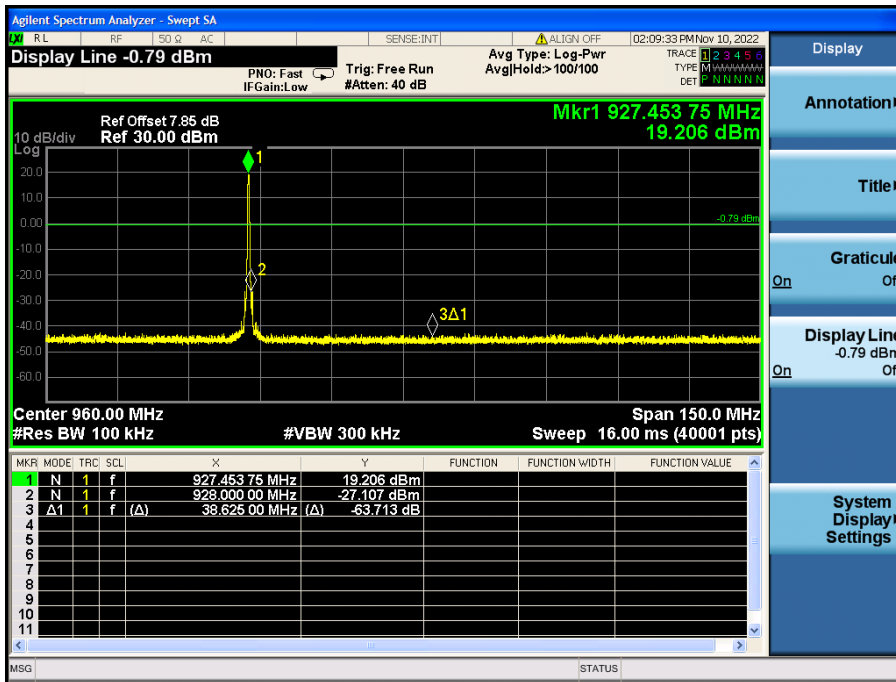
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Test mode:Non-Hopping Test Channel:902.5MHz



Test mode: Non-Hopping Test Channel: 927.5MHz



7.7 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 7.8.8

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C

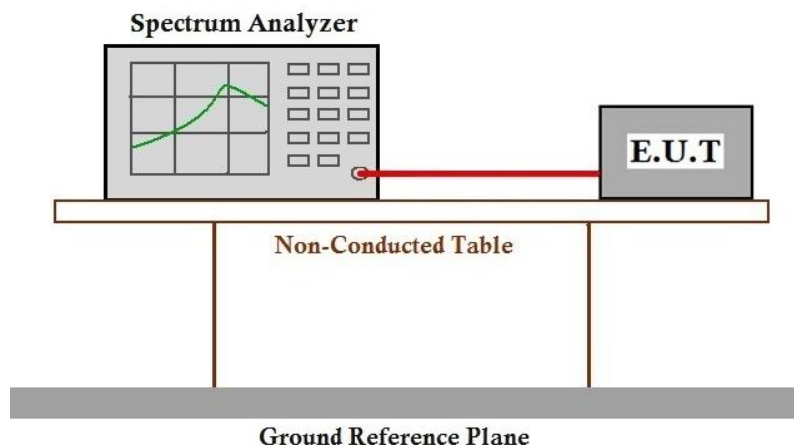
Humidity: 73.0 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation. |

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data



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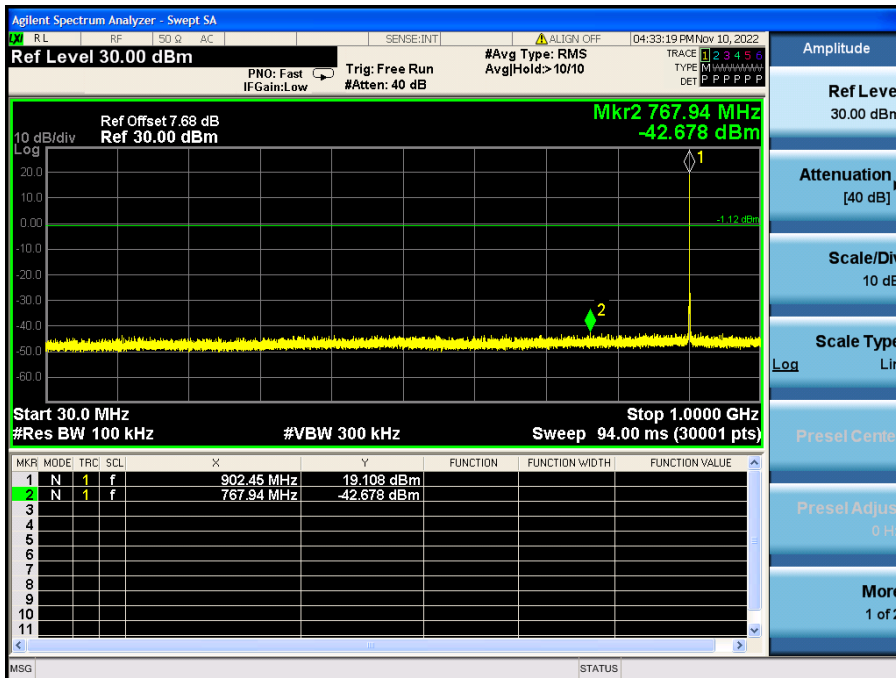
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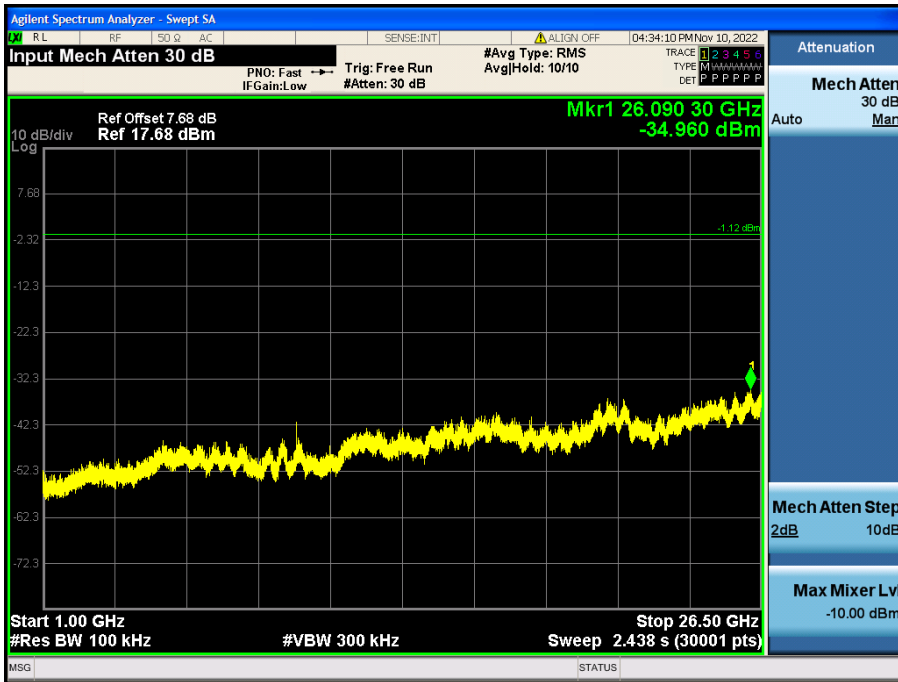
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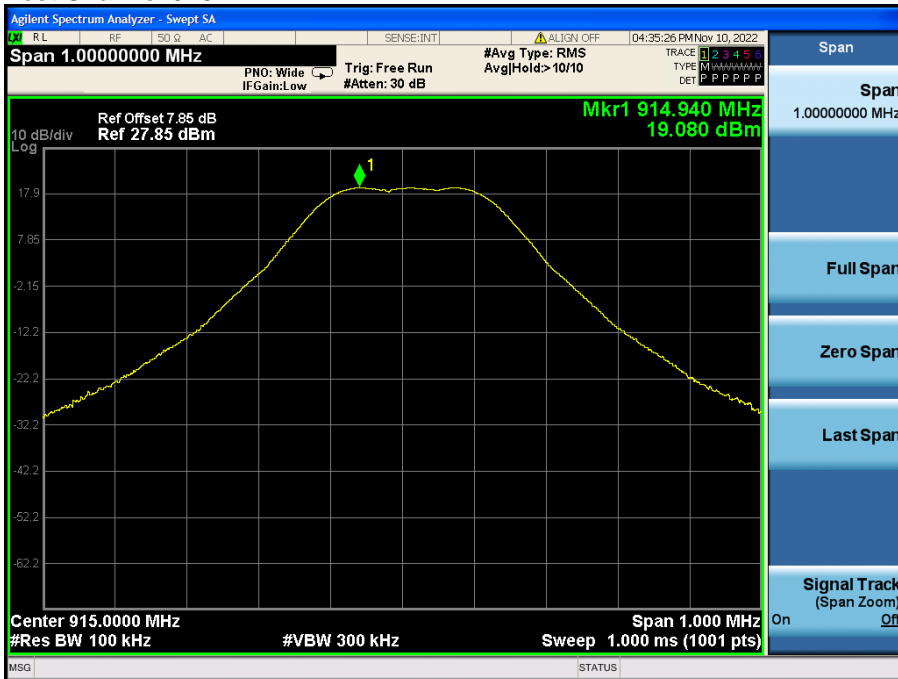
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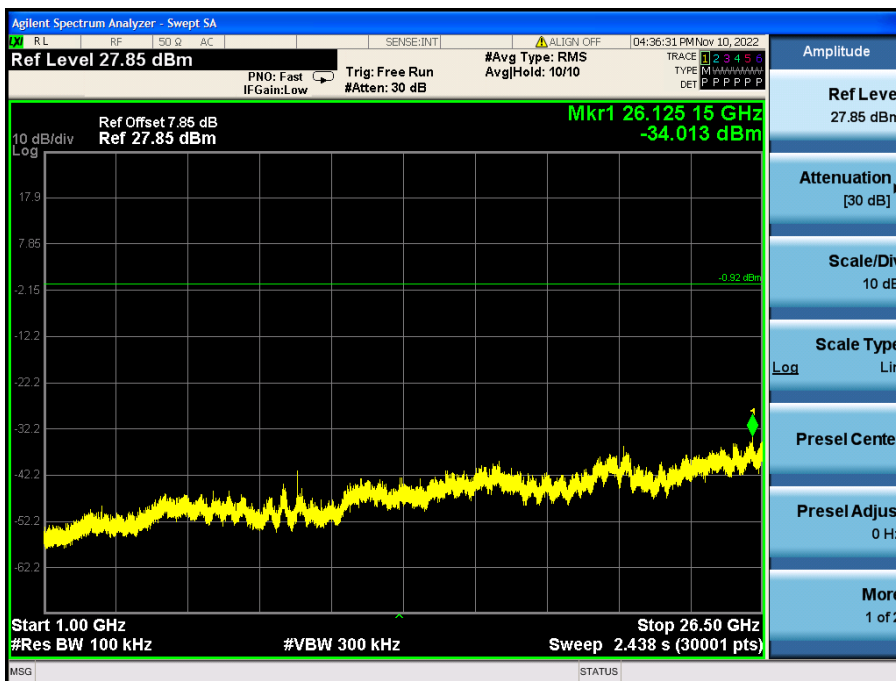
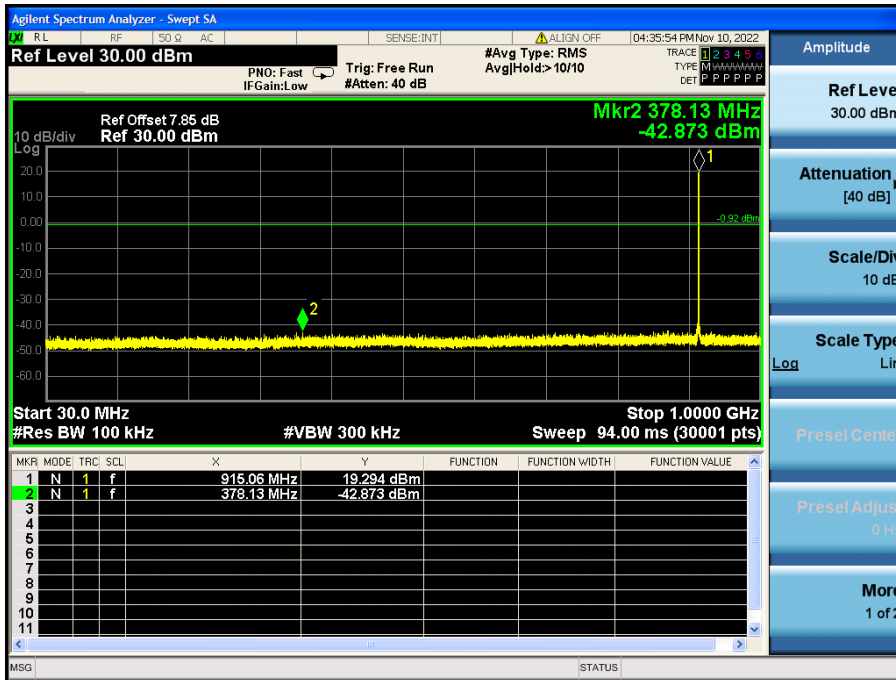
Test Channel:902.5MHz



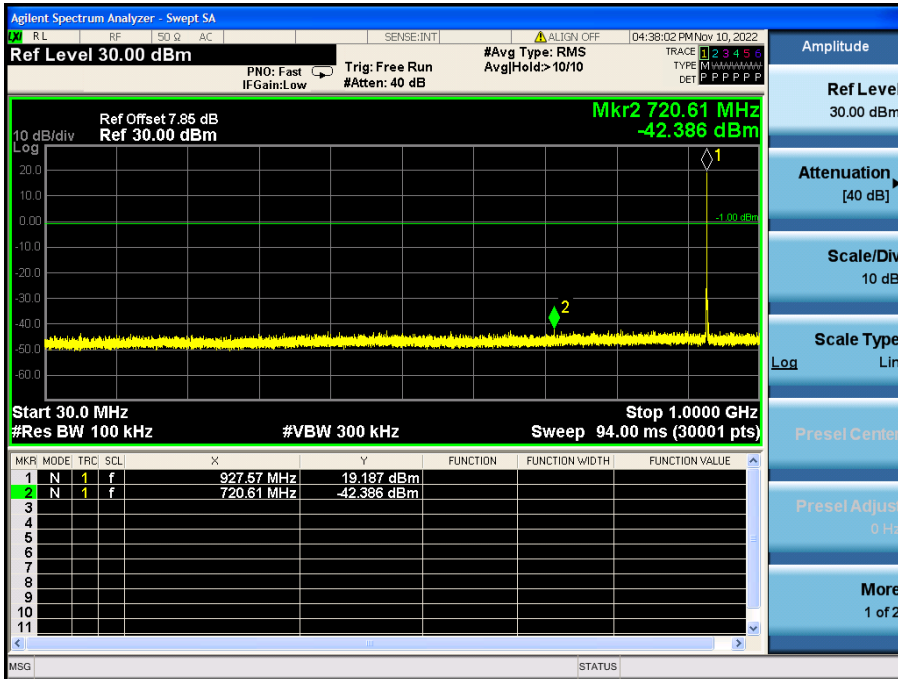


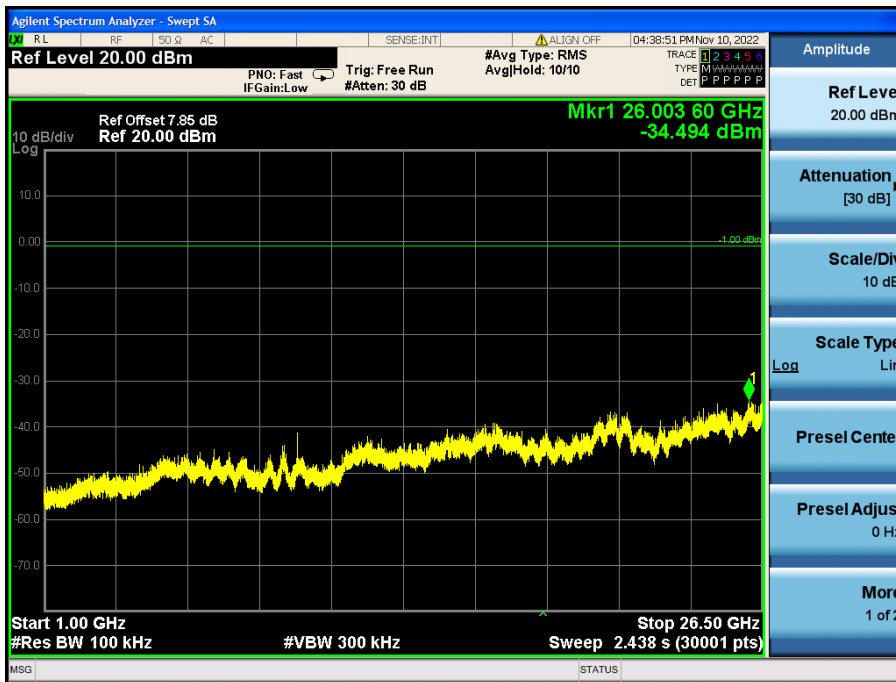
Test Channel:915MHz





Test Channel: 927.5MHz





7.8 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 73.1 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

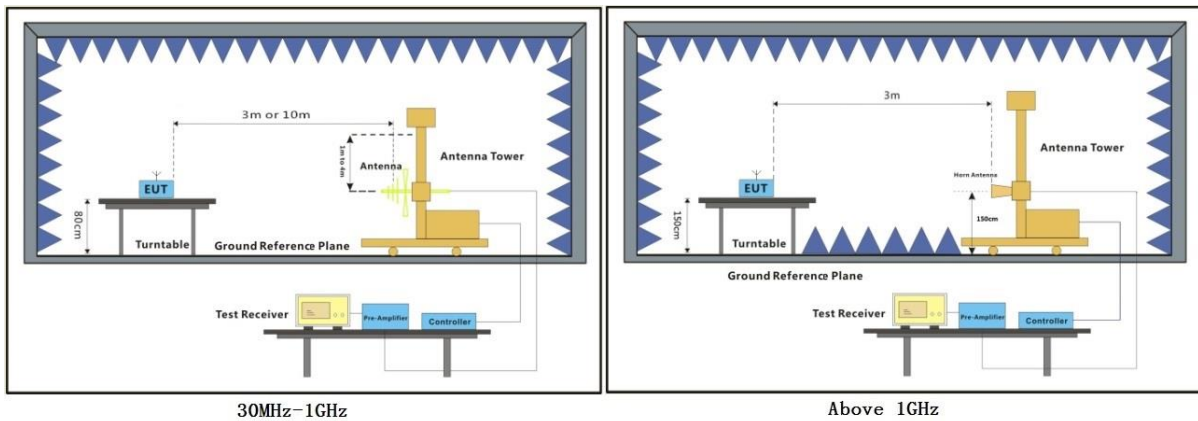
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 03 | TX_non-Hop mode_Keep the TR50-5D-BW in continuously transmitting mode with FSK modulation. |
| Pre-scan | 04 | TX_non-Hop mode_Keep the TR50-5N-BW in continuously transmitting mode with FSK modulation. |
| Pre-scan | 05 | TX_non-Hop mode_Keep the TR50-3D-BW in continuously transmitting mode with FSK modulation. |
| Pre-scan | 06 | TX_non-Hop mode_Keep the TR50-3N-BW in continuously transmitting mode with FSK modulation. |



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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

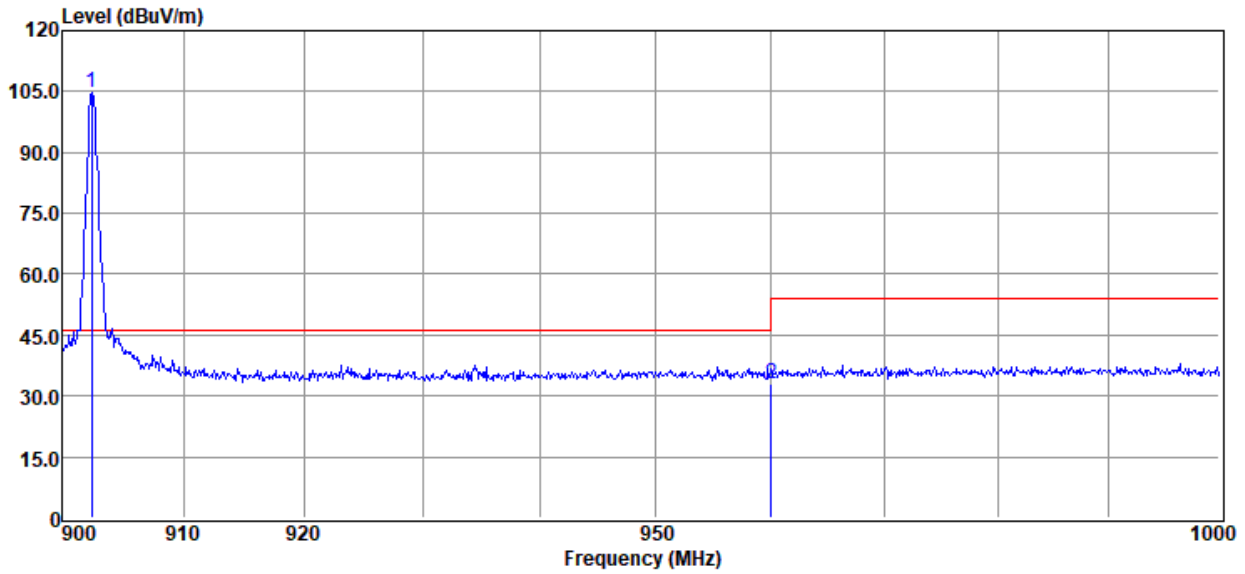
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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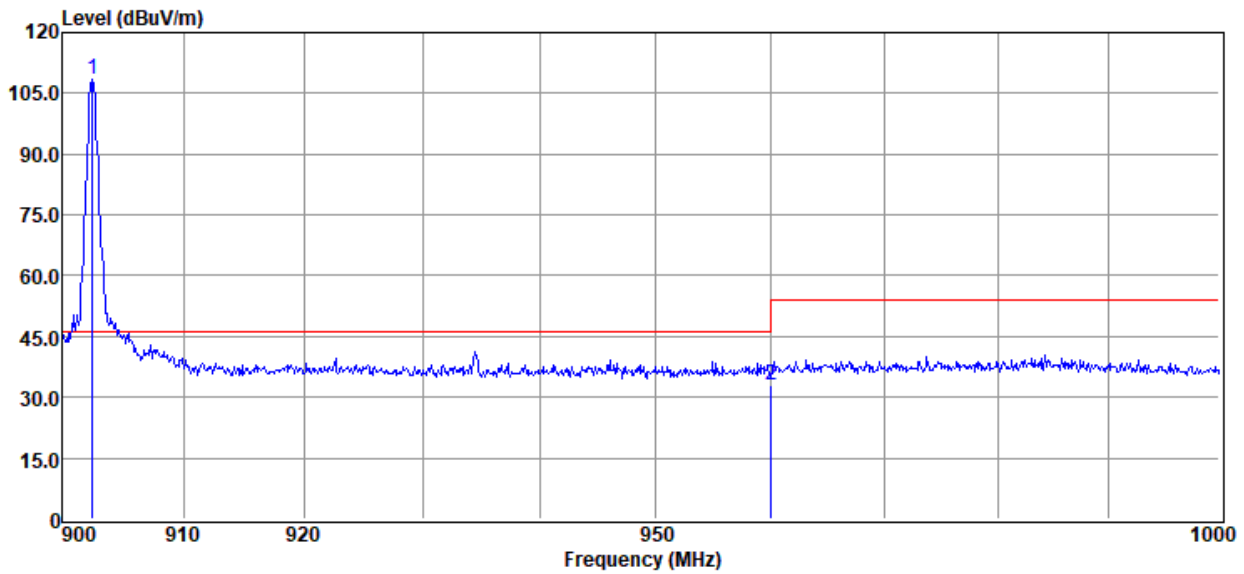
Test mode:03 Test Channel:902.5MHz



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Pream p Factor (dB) | Cabl e Loss (dB) | Result Level (dBμV/ m) | Limit Line (dBμV/ m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------------|---------------------|---------------------------|-------------------------|--------------------|----------|--------------|
| 1 | 902.374 | 102.77 | 23.94 | 27.47 | 5.34 | 104.58 | 46.00 | 58.58 | Peak | VERTICAL |
| 2 | 960.000 | 30.28 | 23.85 | 26.78 | 5.54 | 32.89 | 46.00 | -13.11 | QP | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor





| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Pream p Factor (dB) | Cabl e Loss (dB) | Result Level (dBμV/ m) | Limit Line (dBμV/ m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------------|---------------------|---------------------------|-------------------------|--------------------|----------|--------------|
| 1 | 902.469 | 106.55 | 23.94 | 27.47 | 5.34 | 108.36 | 46.00 | 62.36 | Peak | HORIZONTAL |
| 2 | 960.000 | 30.53 | 23.85 | 26.78 | 5.54 | 33.14 | 46.00 | -12.86 | QP | HORIZONTAL |

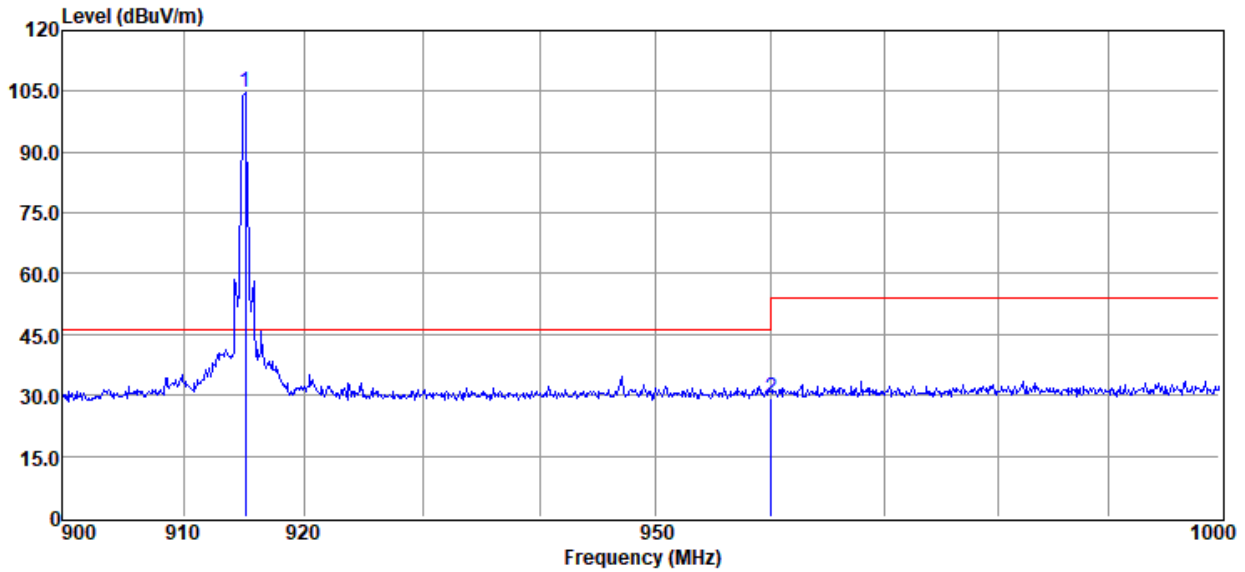
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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Test mode:03 Test Channel:915.0MHz



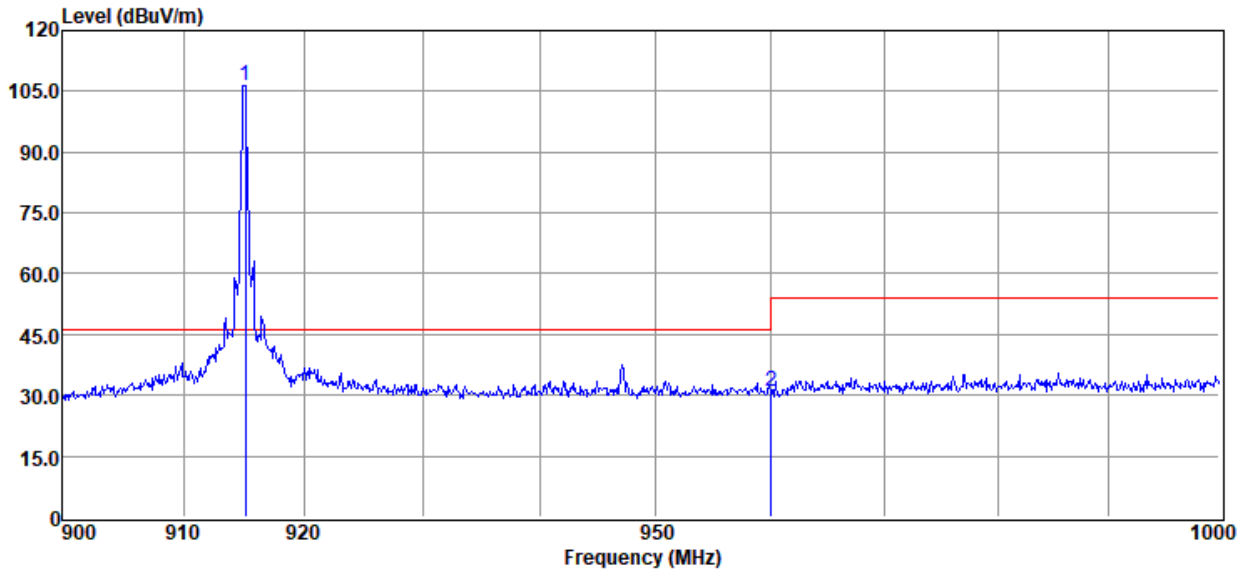
| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Pream p Factor (dB) | Cabl e Loss (dB) | Result Level (dBμV/ m) | Limit Line (dBμV/ m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------------|---------------------|---------------------------|-------------------------|--------------------|----------|--------------|
| 1 | 915.108 | 102.53 | 23.96 | 27.31 | 5.39 | 104.57 | 46.00 | 58.57 | Peak | VERTICAL |
| 2 | 960.000 | 26.54 | 23.85 | 26.78 | 5.54 | 29.15 | 46.00 | -16.85 | QP | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Pream p Factor (dB) | Cabl e Loss (dB) | Result Level (dBμV/ m) | Limit Line (dBμV/ m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------------|---------------------|---------------------------|-------------------------|--------------------|----------|--------------|
| 1 | 915.108 | 104.55 | 23.96 | 27.31 | 5.39 | 106.59 | 46.00 | 60.59 | Peak | HORIZONTAL |
| 2 | 960.000 | 28.47 | 23.85 | 26.78 | 5.54 | 31.08 | 46.00 | -14.92 | QP | HORIZONTAL |

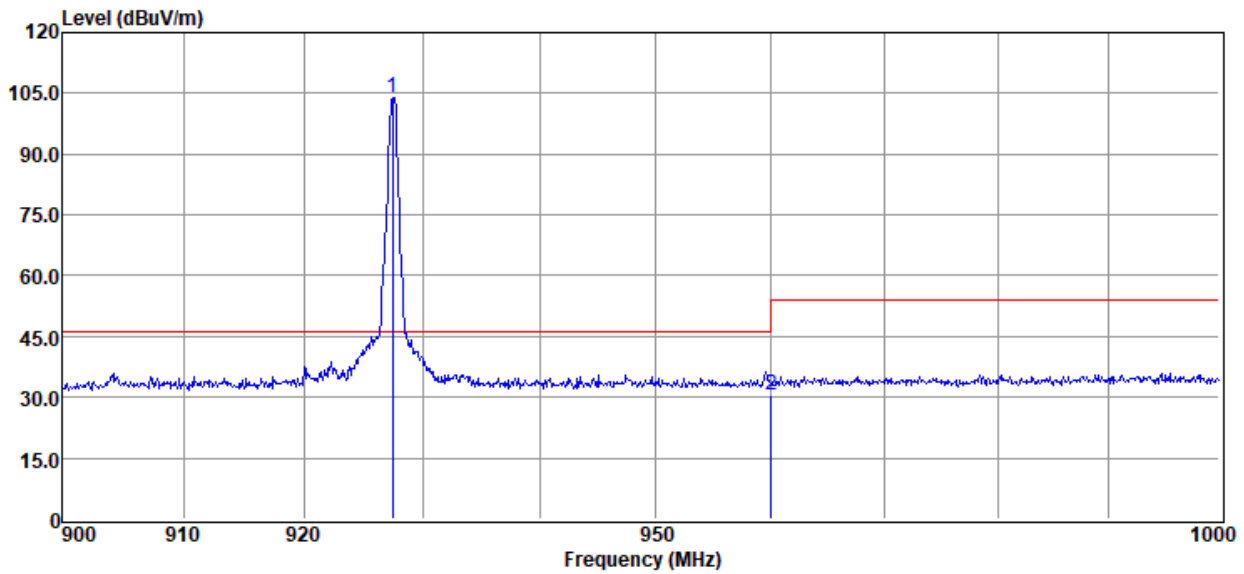
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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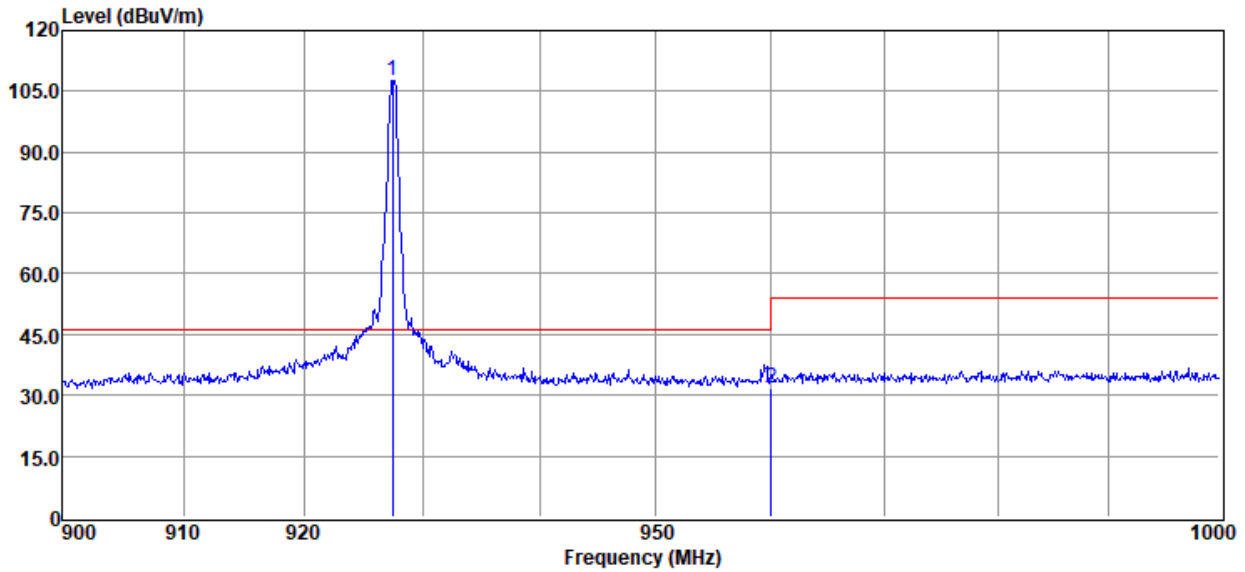
Test mode:03 Test Channel:927.5MHz



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Pream p Factor (dB) | Cabl e Loss (dB) | Result Level (dBμV/ m) | Limit Line (dBμV/ m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------------|---------------------|---------------------------|-------------------------|--------------------|----------|--------------|
| 1 | 927.435 | 101.84 | 23.89 | 27.09 | 5.43 | 104.07 | 46.00 | 58.07 | Peak | VERTICAL |
| 2 | 960.000 | 28.03 | 23.85 | 26.78 | 5.54 | 30.64 | 46.00 | -15.36 | QP | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor





| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Pream p Factor (dB) | Cabl e Loss (dB) | Result Level (dBUV/ m) | Limit Line (dBUV/ m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------------|---------------------|---------------------------|-------------------------|--------------------|----------|--------------|
| 1 | 927.435 | 105.43 | 23.89 | 27.09 | 5.43 | 107.66 | 46.00 | 61.66 | Peak | HORIZONTAL |
| 2 | 960.000 | 29.00 | 23.85 | 26.78 | 5.54 | 31.61 | 46.00 | -14.39 | QP | HORIZONTAL |

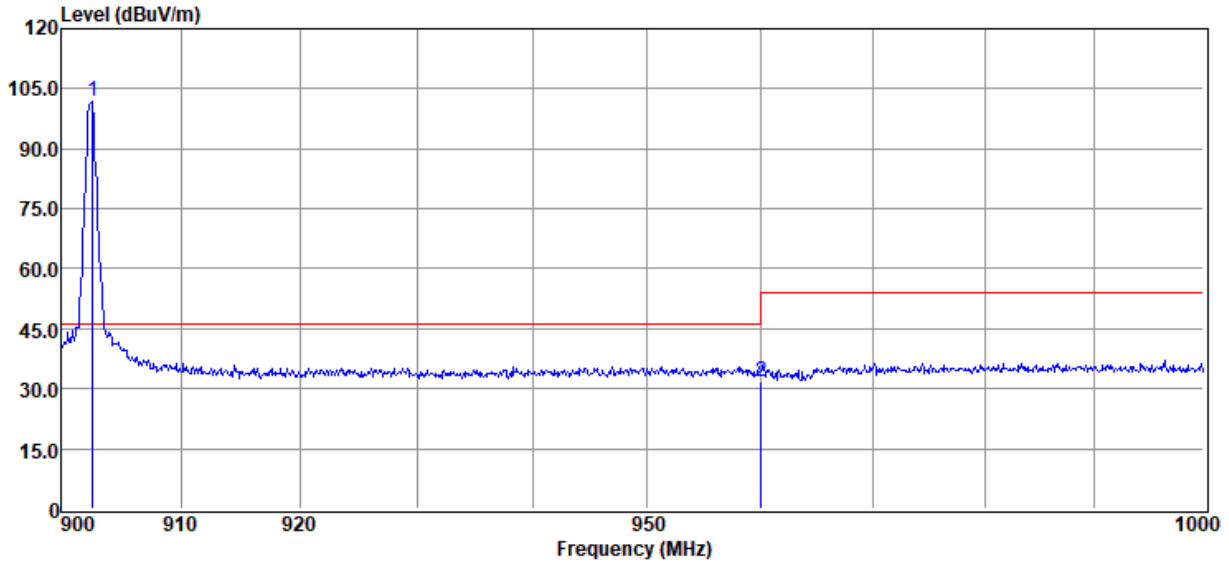
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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Test mode:04 Test Channel:902.5MHz



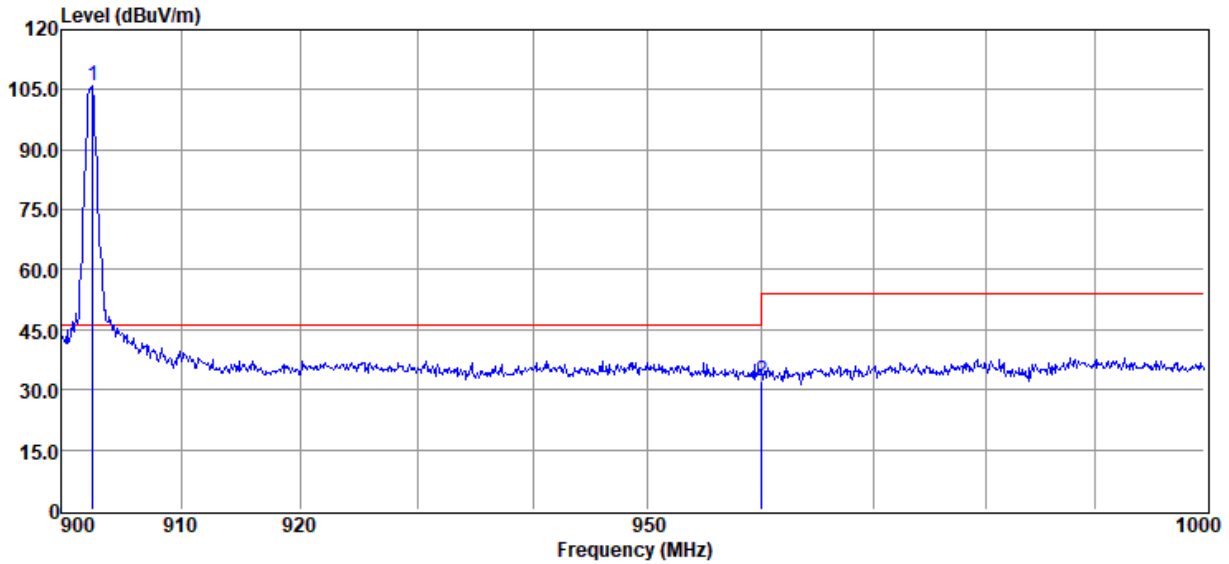
| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Pream p Factor (dB) | Cabl e Loss (dB) | Result Level (dBμV/ m) | Limit Line (dBμV/ m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------------|---------------------|---------------------------|-------------------------|--------------------|----------|--------------|
| 1 | 902.564 | 100.03 | 23.94 | 27.47 | 5.34 | 101.84 | 46.00 | 55.84 | Peak | VERTICAL |
| 2 | 960.000 | 29.28 | 23.85 | 26.78 | 5.54 | 31.89 | 46.00 | -14.11 | QP | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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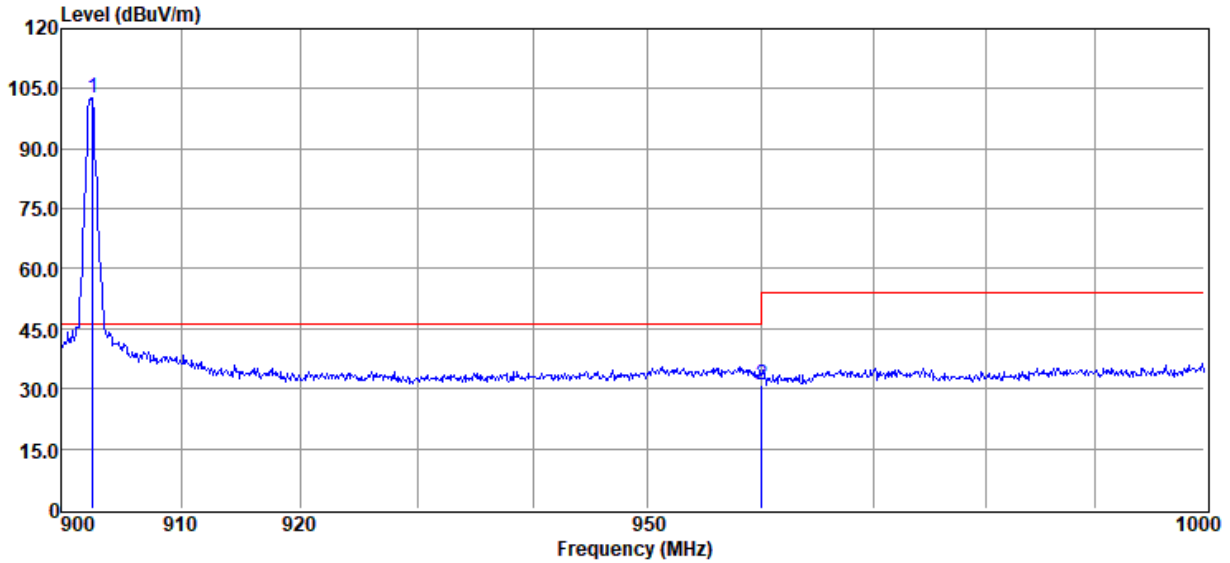


| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Pream p Factor (dB) | Cabl e Loss (dB) | Result Level (dBμV/ m) | Limit Line (dBμV/ m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|------------------------------|---------------------------|---------------------------------|-------------------------------|-----------------------|----------|--------------|
| 1 | 902.564 | 103.97 | 23.94 | 27.47 | 5.34 | 105.78 | 46.00 | 59.78 | Peak | HORIZONTAL |
| 2 | 960.000 | 29.53 | 23.85 | 26.78 | 5.54 | 32.14 | 46.00 | -13.86 | QP | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



Test mode:05 Test Channel:902.5MHz



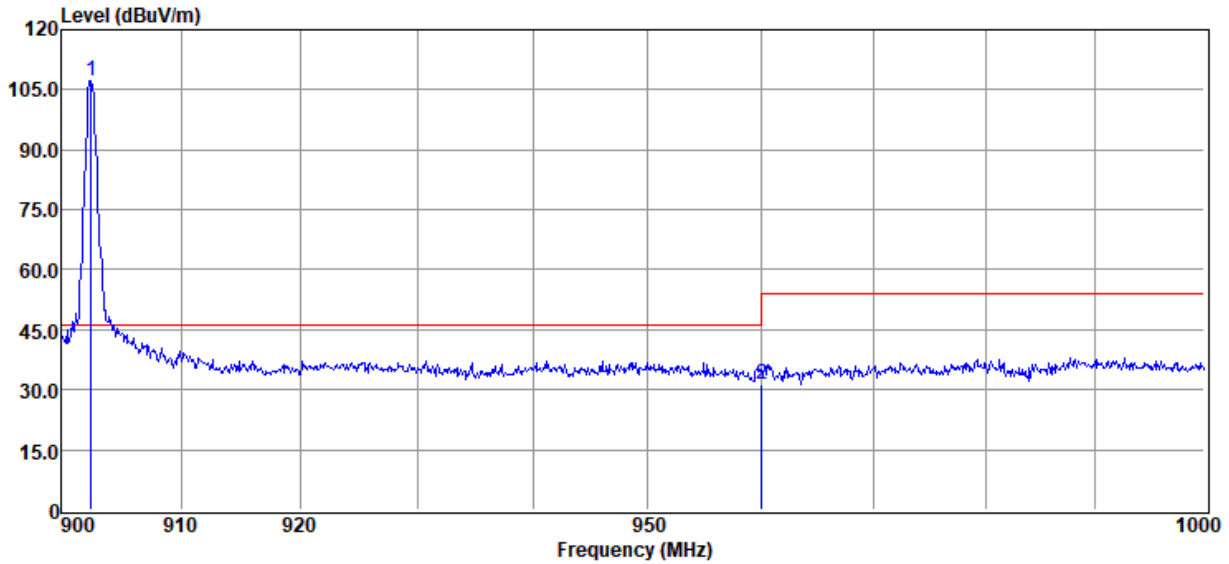
| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Pream p Factor (dB) | Cabl e Loss (dB) | Result Level (dBμV/ m) | Limit Line (dBμV/ m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------------|---------------------|---------------------------|-------------------------|--------------------|----------|--------------|
| 1 | 902.564 | 101.03 | 23.94 | 27.47 | 5.34 | 102.84 | 46.00 | 56.84 | Peak | VERTICAL |
| 2 | 960.000 | 28.28 | 23.85 | 26.78 | 5.54 | 30.89 | 46.00 | -15.11 | QP | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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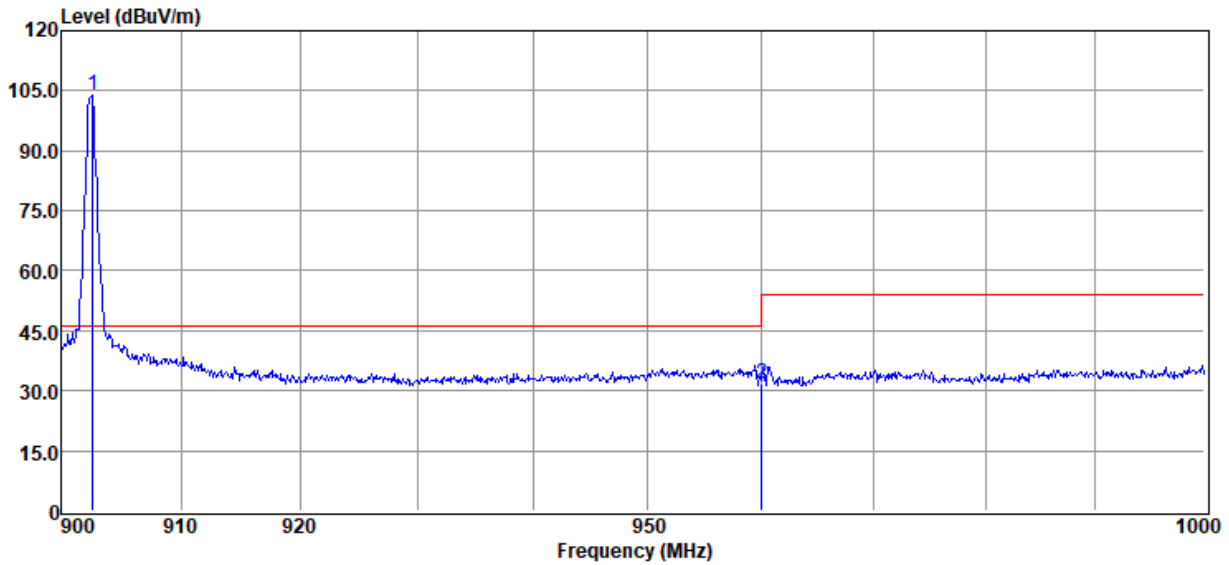


| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Pream p Factor (dB) | Cabl e Loss (dB) | Result Level (dBμV/ m) | Limit Line (dBμV/ m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|------------------------------|---------------------------|---------------------------------|-------------------------------|-----------------------|----------|--------------|
| 1 | 902.469 | 105.55 | 23.94 | 27.47 | 5.34 | 107.36 | 46.00 | 61.36 | Peak | HORIZONTAL |
| 2 | 960.000 | 28.53 | 23.85 | 26.78 | 5.54 | 31.14 | 46.00 | -14.86 | QP | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



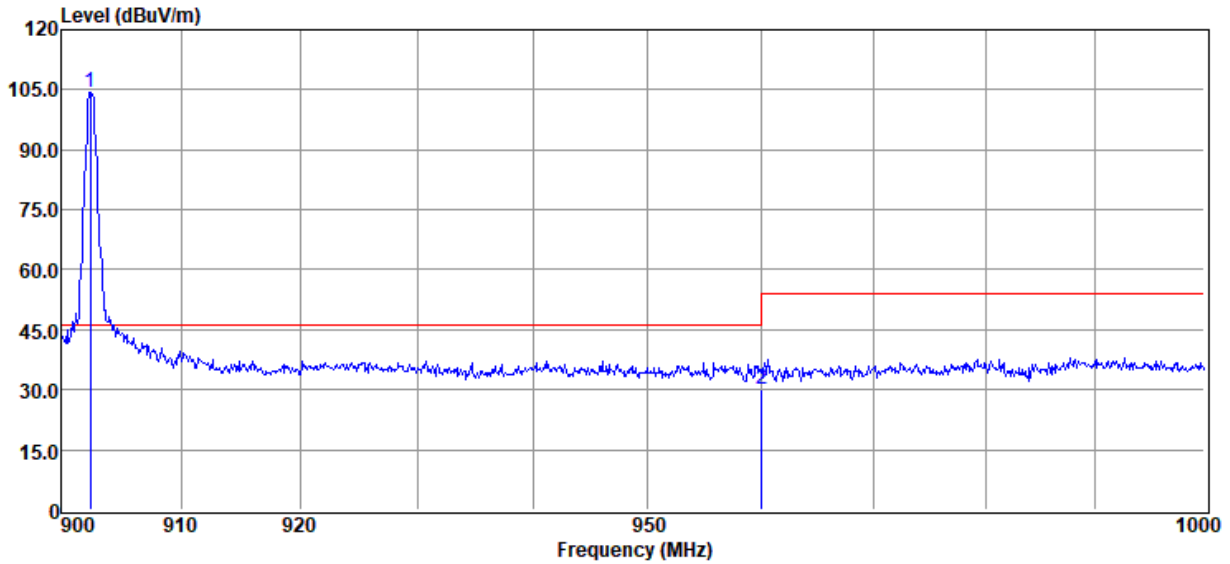
Test mode:06 Test Channel:902.5MHz



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Pream p Factor (dB) | Cabl e Loss (dB) | Result Level (dBμV/ m) | Limit Line (dBμV/ m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------------|---------------------|---------------------------|-------------------------|--------------------|----------|--------------|
| 1 | 902.564 | 102.03 | 23.94 | 27.47 | 5.34 | 103.84 | 46.00 | 57.84 | Peak | VERTICAL |
| 2 | 960.000 | 29.28 | 23.85 | 26.78 | 5.54 | 31.89 | 46.00 | -14.11 | QP | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor





| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Pream p Factor (dB) | Cabl e Loss (dB) | Result Level (dBμV/ m) | Limit Line (dBμV/ m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|------------------------------|---------------------------|---------------------------------|-------------------------------|-----------------------|----------|--------------|
| 1 | 902.374 | 102.53 | 23.94 | 27.47 | 5.34 | 104.34 | 46.00 | 58.34 | Peak | HORIZONTAL |
| 2 | 960.000 | 27.53 | 23.85 | 26.78 | 5.54 | 30.14 | 46.00 | -15.86 | QP | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



7.9 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 73.3 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

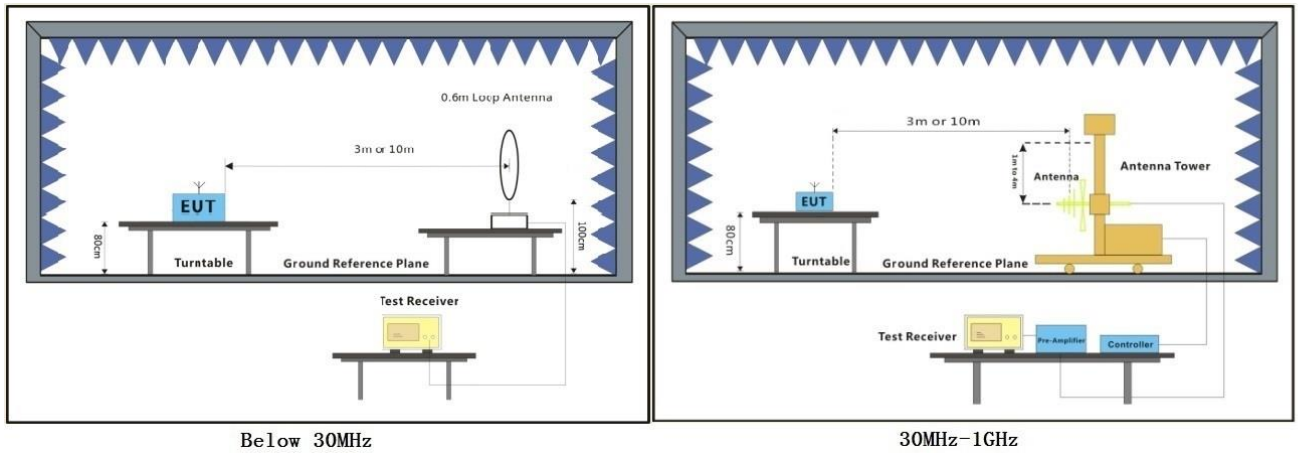
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 03 | TX_non-Hop mode_Keep the TR50-5D-BW in continuously transmitting mode with FSK modulation. |
| Pre-scan | 04 | TX_non-Hop mode_Keep the TR50-5N-BW in continuously transmitting mode with FSK modulation. |
| Pre-scan | 05 | TX_non-Hop mode_Keep the TR50-3D-BW in continuously transmitting mode with FSK modulation. |
| Pre-scan | 06 | TX_non-Hop mode_Keep the TR50-3N-BW in continuously transmitting mode with FSK modulation. |



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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

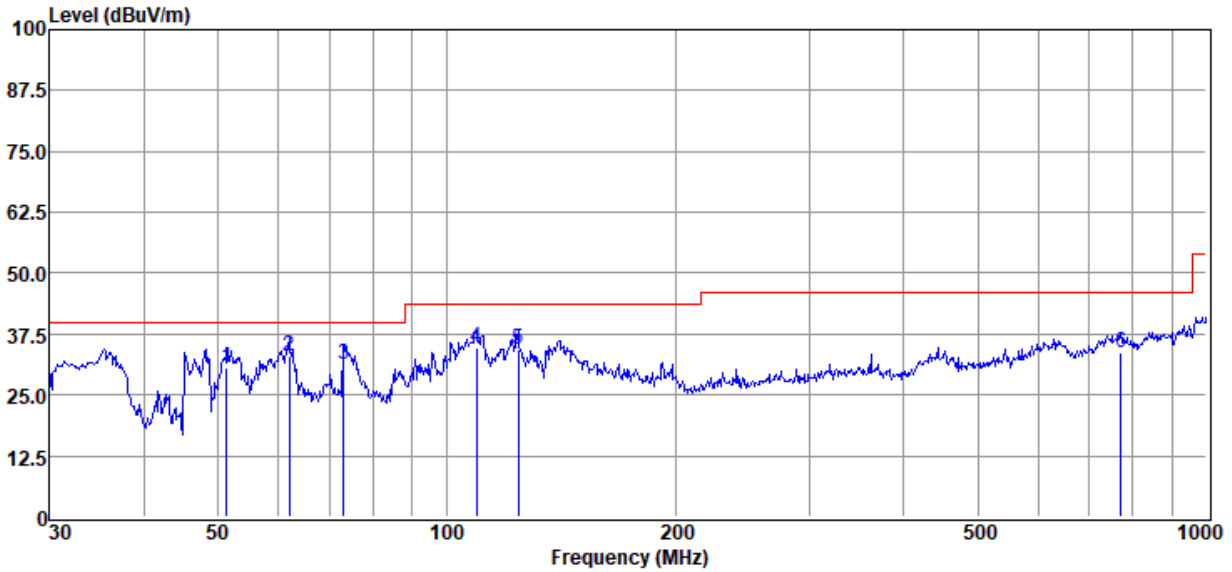
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

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



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| Item (Mark) | Freq. (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Pream p Factor (dB) | Cabl e Loss (dB) | Result Level (dBuV/ m) | Limit Line (dBuV/ m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|------------------------------|---------------------------|---------------------------------|-------------------------------|-----------------------|----------|--------------|
| 1 | 51.301 | 41.71 | 13.81 | 26.20 | 1.25 | 30.57 | 40.00 | -9.43 | QP | VERTICAL |
| 2 | 61.995 | 44.95 | 12.99 | 26.19 | 1.31 | 33.06 | 40.00 | -6.94 | QP | VERTICAL |
| 3 | 73.103 | 44.67 | 11.14 | 26.10 | 1.47 | 31.18 | 40.00 | -8.82 | QP | VERTICAL |
| 4 | 109.412 | 49.71 | 10.24 | 27.10 | 1.79 | 34.64 | 43.50 | -8.86 | QP | VERTICAL |
| 5 | 124.133 | 47.85 | 11.55 | 27.10 | 1.99 | 34.29 | 43.50 | -9.21 | QP | VERTICAL |
| 6 | 771.449 | 33.78 | 22.42 | 27.50 | 4.86 | 33.56 | 46.00 | -12.44 | QP | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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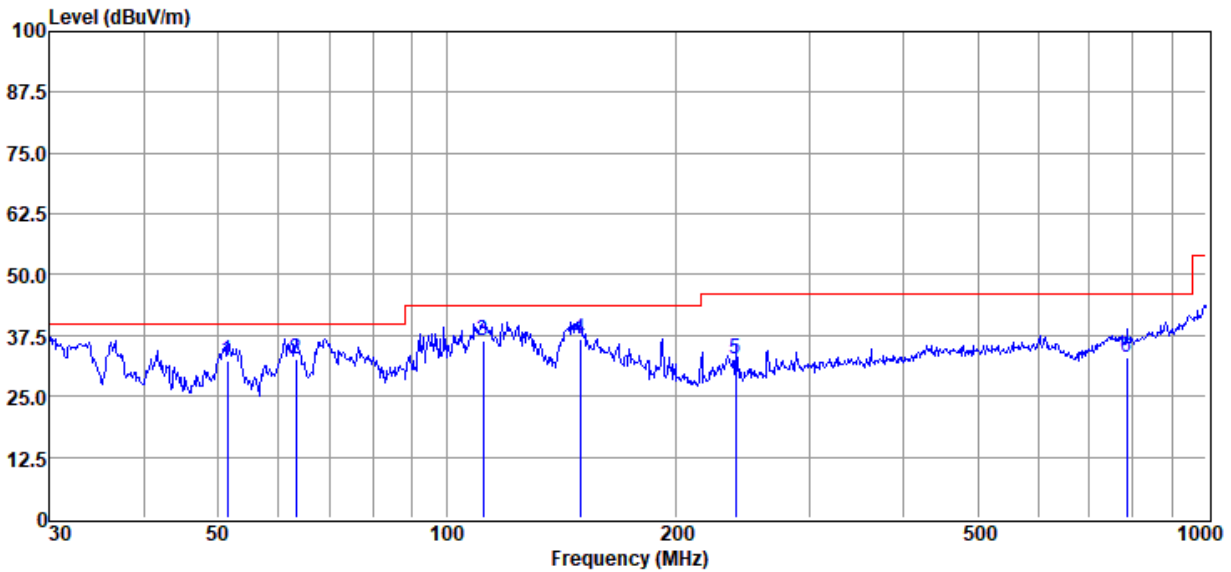
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| Item (Mark) | Freq. (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Pream p Factor (dB) | Cabl e Loss (dB) | Result Level (dBuV/ m) | Limit Line (dBuV/ m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|------------------------------|---------------------------|---------------------------------|-------------------------------|-----------------------|----------|--------------|
| 1 | 51.481 | 43.44 | 13.81 | 26.20 | 1.25 | 32.30 | 40.00 | -7.70 | QP | HORIZONTAL |
| 2 | 63.313 | 44.50 | 12.83 | 26.17 | 1.36 | 32.52 | 40.00 | -7.48 | QP | HORIZONTAL |
| 3 | 111.738 | 51.28 | 10.48 | 27.10 | 1.83 | 36.49 | 43.50 | -7.01 | QP | HORIZONTAL |
| 4 | 150.011 | 48.47 | 13.12 | 27.10 | 2.11 | 36.60 | 43.50 | -6.90 | QP | HORIZONTAL |
| 5 | 239.987 | 45.23 | 11.55 | 26.88 | 2.66 | 32.56 | 46.00 | -13.44 | QP | HORIZONTAL |
| 6 | 785.093 | 33.31 | 22.39 | 27.73 | 4.87 | 32.84 | 46.00 | -13.16 | QP | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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7.10 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

Limit:

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

7.10.1 E.U.T. Operation

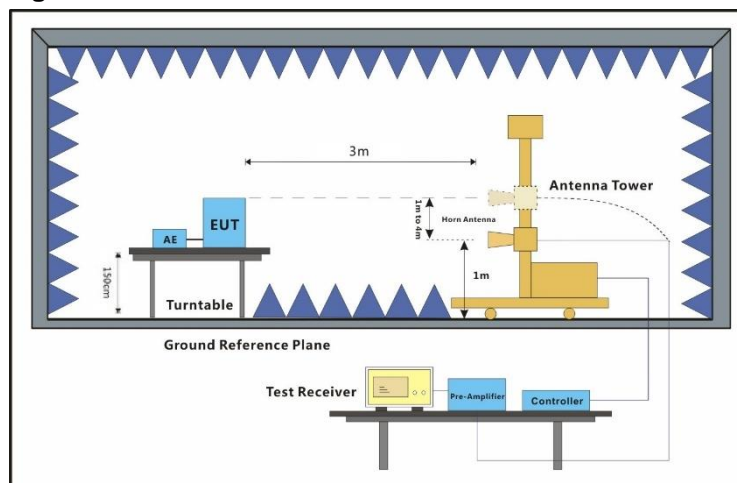
Operating Environment:

Temperature: 20.2 °C Humidity: 73.4 % RH Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 03 | TX_non-Hop mode_Keep the TR50-5D-BW in continuously transmitting mode with FSK modulation. |
| Pre-scan | 04 | TX_non-Hop mode_Keep the TR50-5N-BW in continuously transmitting mode with FSK modulation. |
| Pre-scan | 05 | TX_non-Hop mode_Keep the TR50-3D-BW in continuously transmitting mode with FSK modulation. |
| Pre-scan | 06 | TX_non-Hop mode_Keep the TR50-3N-BW in continuously transmitting mode with FSK modulation. |

7.10.3 Test Setup Diagram



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7.10.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

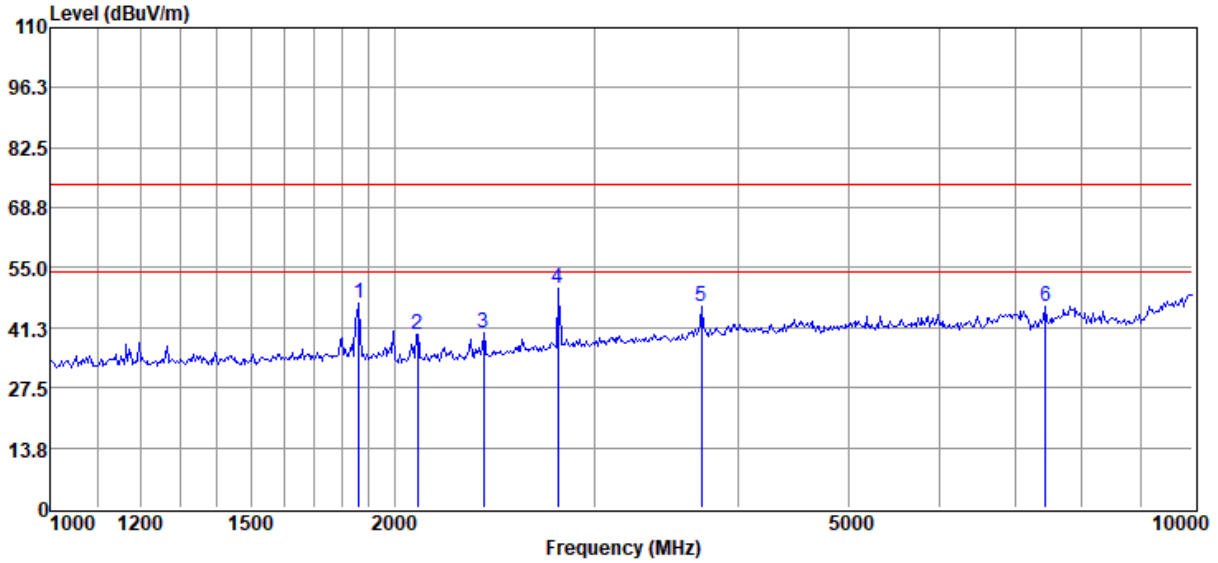
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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Test mode:03 Test Channel:902.5MHz



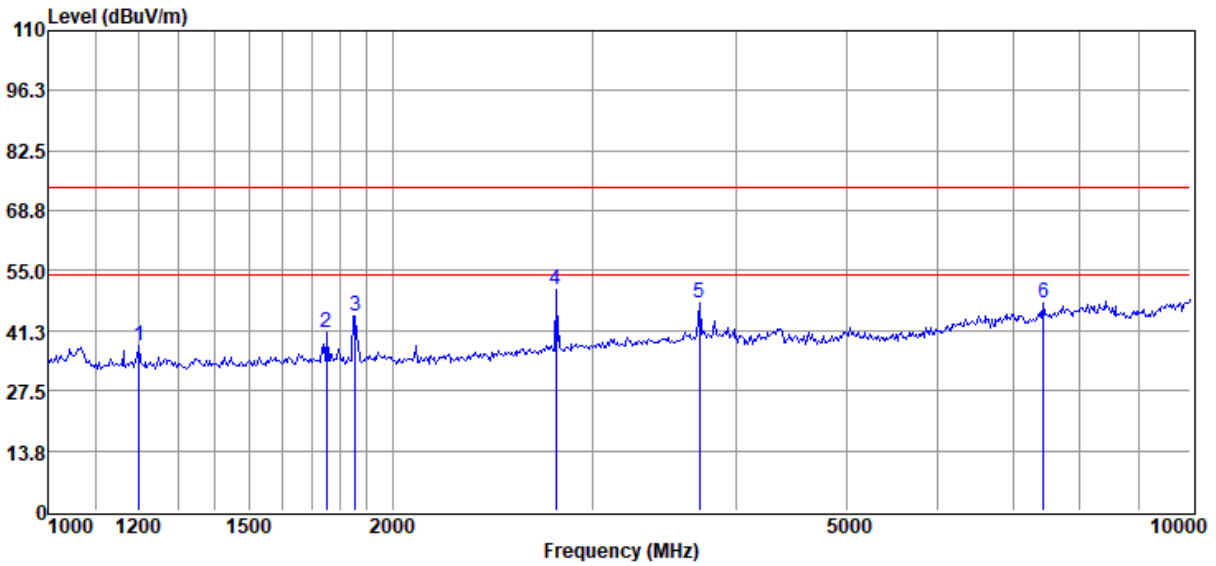
| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|---------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 1861.588 | 54.72 | 25.62 | 41.30 | 7.82 | 46.86 | 74.00 | -27.14 | Peak | VERTICAL |
| 2 | 2095.800 | 46.61 | 26.17 | 41.58 | 8.50 | 39.70 | 74.00 | -34.30 | Peak | VERTICAL |
| 3 | 2393.824 | 45.76 | 27.25 | 42.38 | 9.34 | 39.97 | 74.00 | -34.03 | Peak | VERTICAL |
| 4 | 2782.060 | 54.18 | 28.19 | 42.40 | 10.29 | 50.26 | 74.00 | -23.74 | Peak | VERTICAL |
| 5 | 3714.443 | 46.68 | 29.09 | 42.40 | 12.57 | 45.94 | 74.00 | -28.06 | Peak | VERTICAL |
| 6 | 7432.914 | 36.06 | 36.94 | 42.79 | 15.86 | 46.07 | 74.00 | -27.93 | Peak | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor
 2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit



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| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|---------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 1199.726 | 48.42 | 24.44 | 41.15 | 6.19 | 37.90 | 74.00 | -36.10 | Peak | HORIZONTAL |
| 2 | 1751.955 | 48.94 | 25.48 | 41.29 | 7.81 | 40.94 | 74.00 | -33.06 | Peak | HORIZONTAL |
| 3 | 1856.215 | 52.39 | 25.62 | 41.30 | 7.85 | 44.56 | 74.00 | -29.44 | Peak | HORIZONTAL |
| 4 | 2782.060 | 54.40 | 28.19 | 42.40 | 10.29 | 50.48 | 74.00 | -23.52 | Peak | HORIZONTAL |
| 5 | 3714.443 | 48.41 | 29.09 | 42.40 | 12.57 | 47.67 | 74.00 | -26.33 | Peak | HORIZONTAL |
| 6 | 7432.914 | 37.43 | 36.94 | 42.79 | 15.86 | 47.44 | 74.00 | -26.56 | Peak | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor
 2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit



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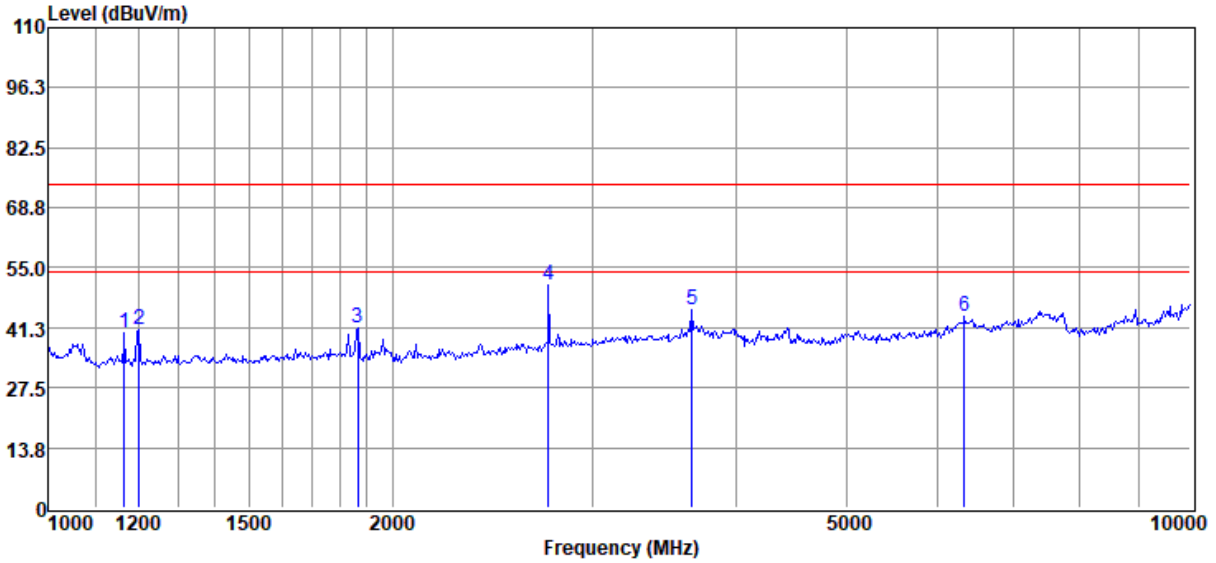
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Test mode:03 Test Channel:915.0MHz



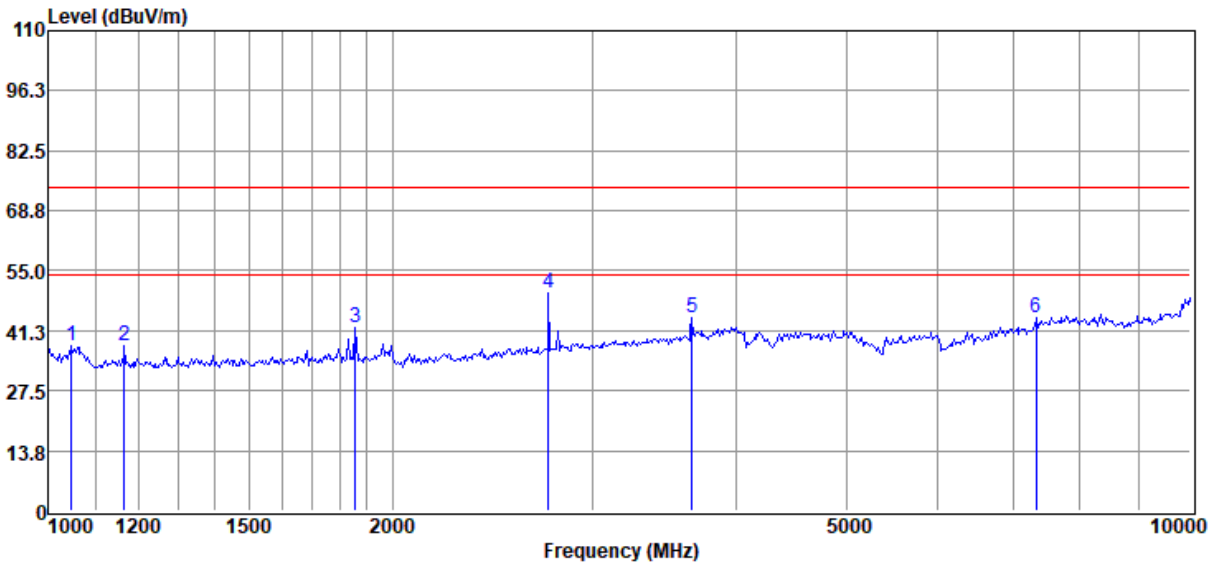
| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|-------------|------------|-------------------|-----------------------|---------------|---------------|-----------------------|---------------------|-----------------|----------|--------------|
| 1 | 1165.546 | 50.71 | 24.35 | 41.14 | 6.16 | 40.08 | 74.00 | -33.92 | Peak | VERTICAL |
| 2 | 1199.726 | 51.21 | 24.44 | 41.15 | 6.19 | 40.69 | 74.00 | -33.31 | Peak | VERTICAL |
| 3 | 1866.977 | 49.10 | 25.63 | 41.30 | 7.82 | 41.25 | 74.00 | -32.75 | Peak | VERTICAL |
| 4 | 2742.143 | 55.18 | 28.11 | 42.40 | 10.09 | 50.98 | 74.00 | -23.02 | Peak | VERTICAL |
| 5 | 3661.149 | 46.87 | 28.97 | 42.40 | 11.91 | 45.35 | 74.00 | -28.65 | Peak | VERTICAL |
| 6 | 6340.436 | 37.17 | 34.02 | 42.57 | 15.21 | 43.83 | 74.00 | -30.17 | Peak | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor
 2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit



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| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|---------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 1047.332 | 48.97 | 24.04 | 41.11 | 5.83 | 37.73 | 74.00 | -36.27 | Peak | HORIZONTAL |
| 2 | 1165.546 | 48.45 | 24.35 | 41.14 | 6.16 | 37.82 | 74.00 | -36.18 | Peak | HORIZONTAL |
| 3 | 1856.215 | 49.95 | 25.62 | 41.30 | 7.85 | 42.12 | 74.00 | -31.88 | Peak | HORIZONTAL |
| 4 | 2742.143 | 54.16 | 28.11 | 42.40 | 10.09 | 49.96 | 74.00 | -24.04 | Peak | HORIZONTAL |
| 5 | 3661.149 | 45.73 | 28.97 | 42.40 | 11.91 | 44.21 | 74.00 | -29.79 | Peak | HORIZONTAL |
| 6 | 7326.267 | 34.70 | 36.67 | 42.77 | 15.79 | 44.39 | 74.00 | -29.61 | Peak | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor
 2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit



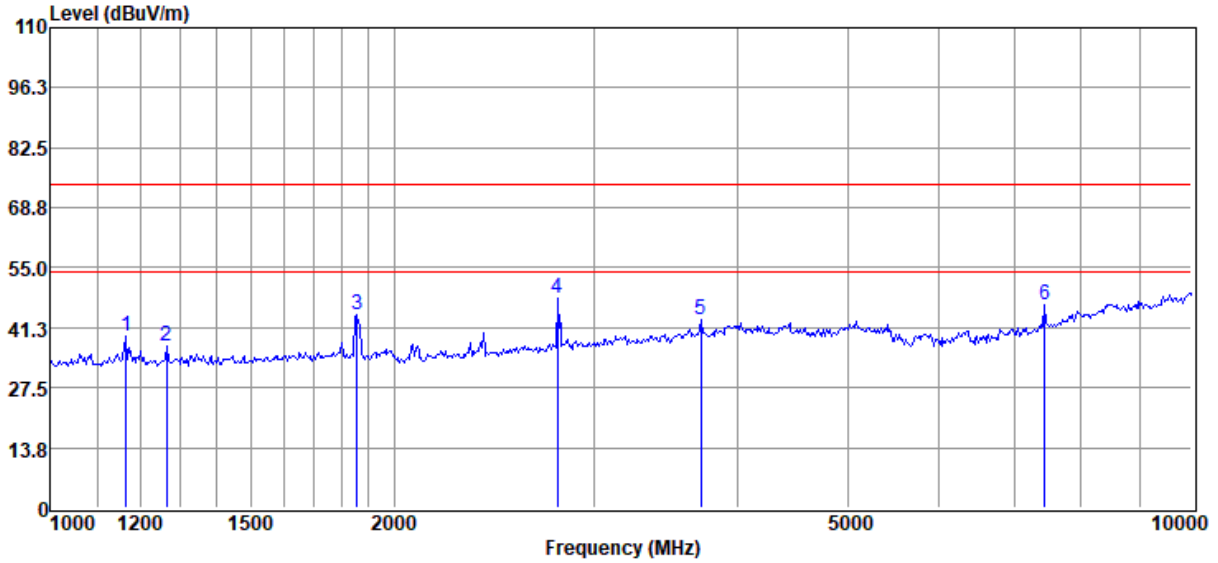
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Test mode:03 Test Channel:927.5MHz



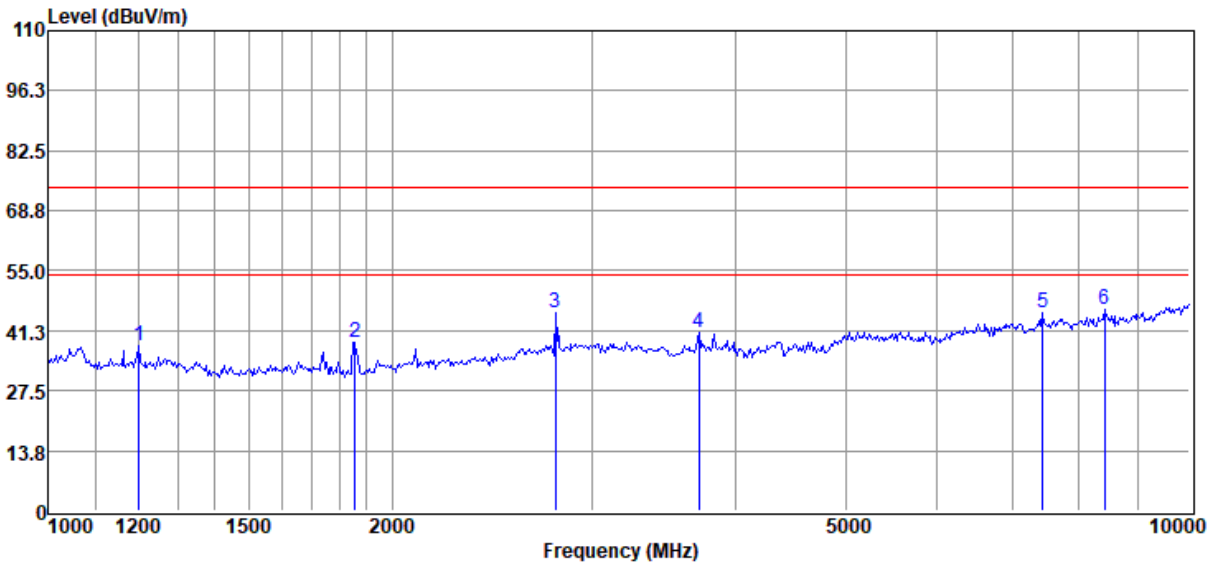
| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|-------------|------------|-------------------|-----------------------|---------------|---------------|-----------------------|---------------------|-----------------|----------|--------------|
| 1 | 1165.546 | 49.78 | 24.35 | 41.14 | 6.16 | 39.15 | 74.00 | -34.85 | Peak | VERTICAL |
| 2 | 1263.796 | 47.27 | 24.59 | 41.16 | 6.36 | 37.06 | 74.00 | -36.94 | Peak | VERTICAL |
| 3 | 1856.215 | 52.01 | 25.62 | 41.30 | 7.85 | 44.18 | 74.00 | -29.82 | Peak | VERTICAL |
| 4 | 2782.060 | 51.90 | 28.19 | 42.40 | 10.29 | 47.98 | 74.00 | -26.02 | Peak | VERTICAL |
| 5 | 3714.443 | 43.88 | 29.09 | 42.40 | 12.57 | 43.14 | 74.00 | -30.86 | Peak | VERTICAL |
| 6 | 7432.914 | 36.38 | 36.94 | 42.79 | 15.86 | 46.39 | 74.00 | -27.61 | Peak | VERTICAL |

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor
 2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit



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| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|-------------|------------|-------------------|-----------------------|---------------|---------------|-----------------------|---------------------|-----------------|----------|--------------|
| 1 | 1199.726 | 48.38 | 24.48 | 41.15 | 6.19 | 37.90 | 74.00 | -36.10 | Peak | HORIZONTAL |
| 2 | 1856.215 | 46.29 | 25.72 | 41.30 | 7.85 | 38.56 | 74.00 | -35.44 | Peak | HORIZONTAL |
| 3 | 2782.060 | 49.23 | 28.36 | 42.40 | 10.29 | 45.48 | 74.00 | -28.52 | Peak | HORIZONTAL |
| 4 | 3714.443 | 40.43 | 30.07 | 42.40 | 12.57 | 40.67 | 74.00 | -33.33 | Peak | HORIZONTAL |
| 5 | 7432.914 | 36.79 | 35.58 | 42.79 | 15.86 | 45.44 | 74.00 | -28.56 | Peak | HORIZONTAL |
| 6 | 8416.584 | 35.71 | 36.57 | 42.11 | 15.84 | 46.01 | 74.00 | -27.99 | Peak | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor
 2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

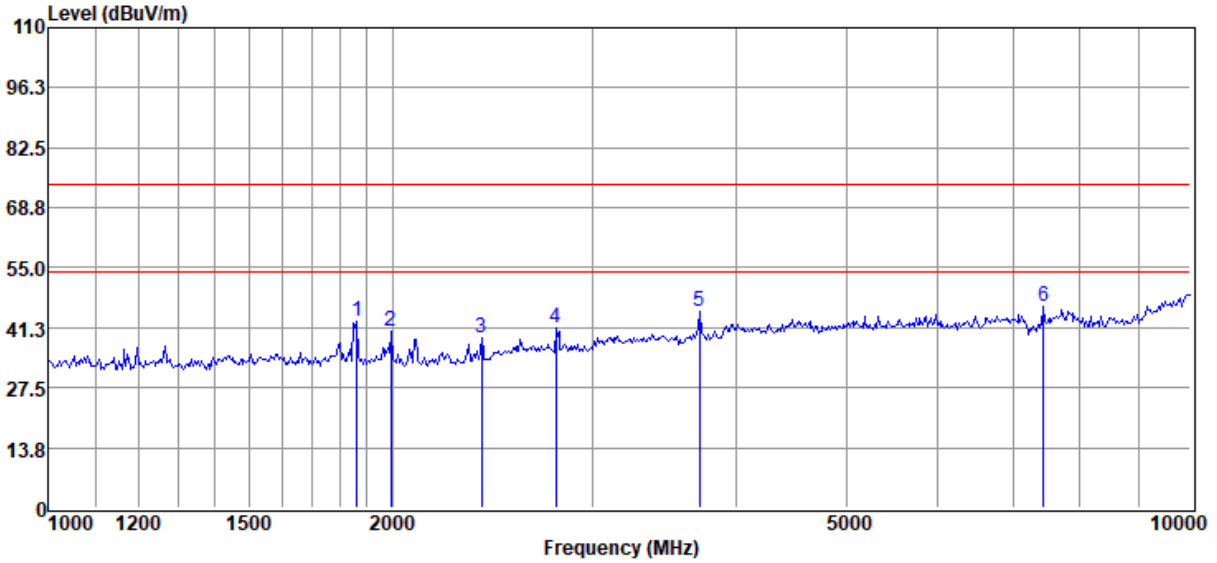


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Test mode:04 Test Channel:902.5MHz



| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|-------------|------------|-------------------|-----------------------|---------------|---------------|-----------------------|---------------------|-----------------|----------|--------------|
| 1 | 1861.588 | 50.60 | 25.74 | 41.30 | 7.82 | 42.86 | 74.00 | -31.14 | Peak | VERTICAL |
| 2 | 1995.309 | 47.79 | 25.88 | 41.30 | 8.24 | 40.61 | 74.00 | -33.39 | Peak | VERTICAL |
| 3 | 2393.824 | 45.18 | 26.83 | 42.38 | 9.34 | 38.97 | 74.00 | -35.03 | Peak | VERTICAL |
| 4 | 2782.060 | 45.01 | 28.36 | 42.40 | 10.29 | 41.26 | 74.00 | -32.74 | Peak | VERTICAL |
| 5 | 3714.443 | 44.70 | 30.07 | 42.40 | 12.57 | 44.94 | 74.00 | -29.06 | Peak | VERTICAL |
| 6 | 7432.914 | 37.42 | 35.58 | 42.79 | 15.86 | 46.07 | 74.00 | -27.93 | Peak | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor
 2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

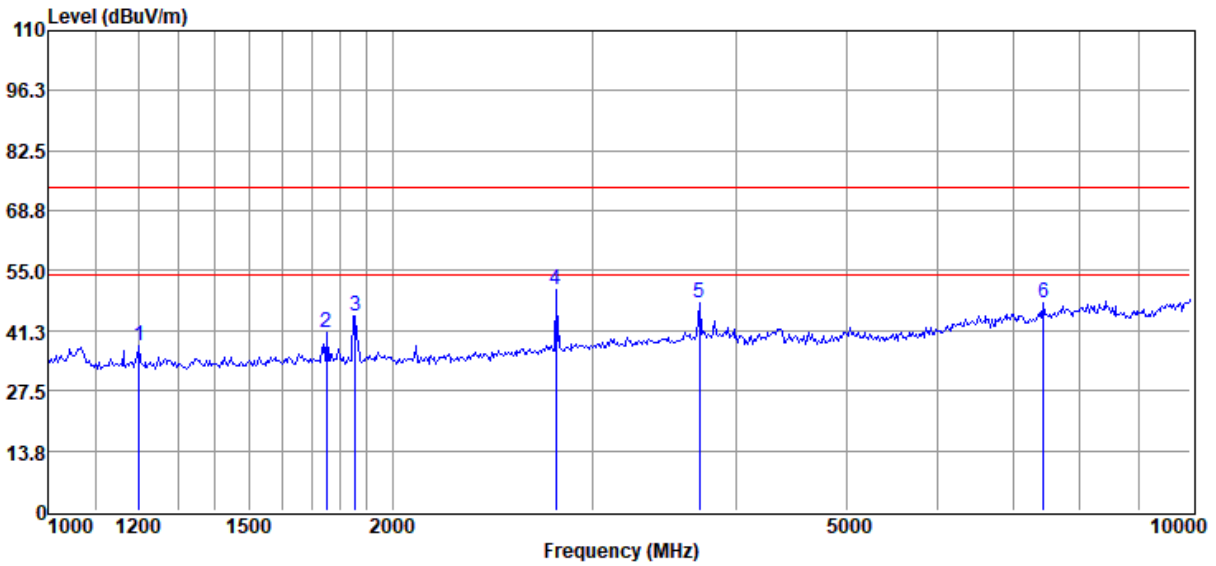


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| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|---------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 1199.726 | 48.42 | 24.44 | 41.15 | 6.19 | 37.90 | 74.00 | -36.10 | Peak | HORIZONTAL |
| 2 | 1751.955 | 48.94 | 25.48 | 41.29 | 7.81 | 40.94 | 74.00 | -33.06 | Peak | HORIZONTAL |
| 3 | 1856.215 | 52.39 | 25.62 | 41.30 | 7.85 | 44.56 | 74.00 | -29.44 | Peak | HORIZONTAL |
| 4 | 2782.060 | 54.40 | 28.19 | 42.40 | 10.29 | 50.48 | 74.00 | -23.52 | Peak | HORIZONTAL |
| 5 | 3714.443 | 48.41 | 29.09 | 42.40 | 12.57 | 47.67 | 74.00 | -26.33 | Peak | HORIZONTAL |
| 6 | 7432.914 | 37.43 | 36.94 | 42.79 | 15.86 | 47.44 | 74.00 | -26.56 | Peak | HORIZONTAL |

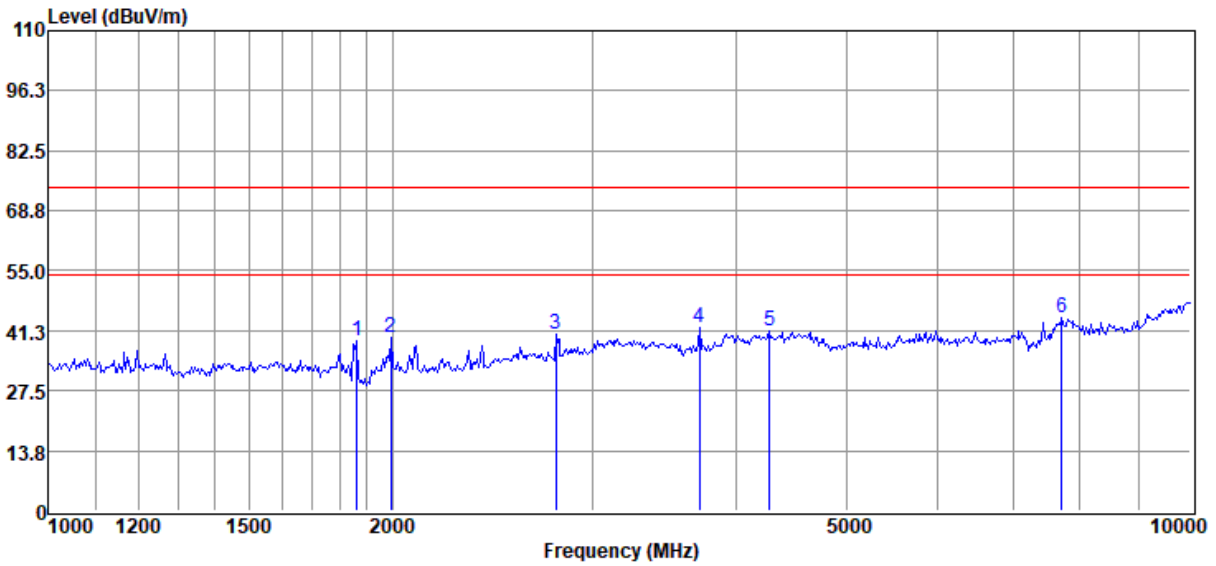
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor
 2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit



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Test mode:05 Test Channel:902.5MHz



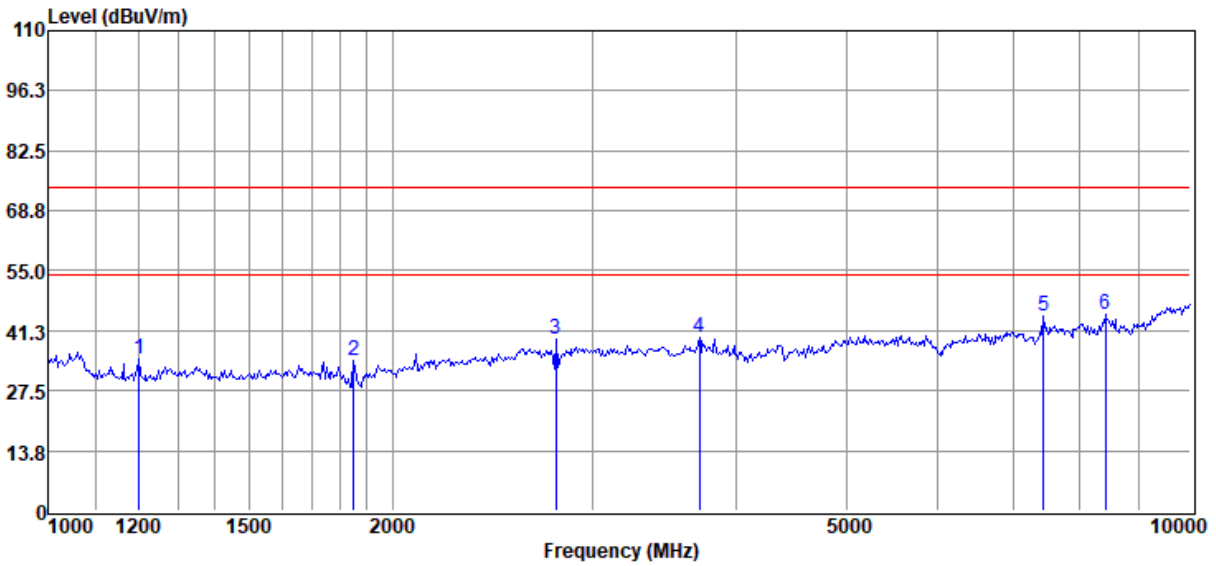
| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|---------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 1861.588 | 46.60 | 25.74 | 41.30 | 7.82 | 38.86 | 74.00 | -35.14 | Peak | VERTICAL |
| 2 | 1995.309 | 46.79 | 25.88 | 41.30 | 8.24 | 39.61 | 74.00 | -34.39 | Peak | VERTICAL |
| 3 | 2782.060 | 44.01 | 28.36 | 42.40 | 10.29 | 40.26 | 74.00 | -33.74 | Peak | VERTICAL |
| 4 | 3714.443 | 41.70 | 30.07 | 42.40 | 12.57 | 41.94 | 74.00 | -32.06 | Peak | VERTICAL |
| 5 | 4279.589 | 39.59 | 30.83 | 42.40 | 13.10 | 41.12 | 74.00 | -32.88 | Peak | VERTICAL |
| 6 | 7717.518 | 35.01 | 36.05 | 42.80 | 15.93 | 44.19 | 74.00 | -29.81 | Peak | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor
 2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit



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| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|---------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 1199.726 | 45.38 | 24.48 | 41.15 | 6.19 | 34.90 | 74.00 | -39.10 | Peak | HORIZONTAL |
| 2 | 1850.858 | 42.27 | 25.72 | 41.30 | 7.85 | 34.54 | 74.00 | -39.46 | Peak | HORIZONTAL |
| 3 | 2782.060 | 43.23 | 28.36 | 42.40 | 10.29 | 39.48 | 74.00 | -34.52 | Peak | HORIZONTAL |
| 4 | 3714.443 | 39.43 | 30.07 | 42.40 | 12.57 | 39.67 | 74.00 | -34.33 | Peak | HORIZONTAL |
| 5 | 7432.914 | 35.79 | 35.58 | 42.79 | 15.86 | 44.44 | 74.00 | -29.56 | Peak | HORIZONTAL |
| 6 | 8416.584 | 34.71 | 36.57 | 42.11 | 15.84 | 45.01 | 74.00 | -28.99 | Peak | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor
 2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit



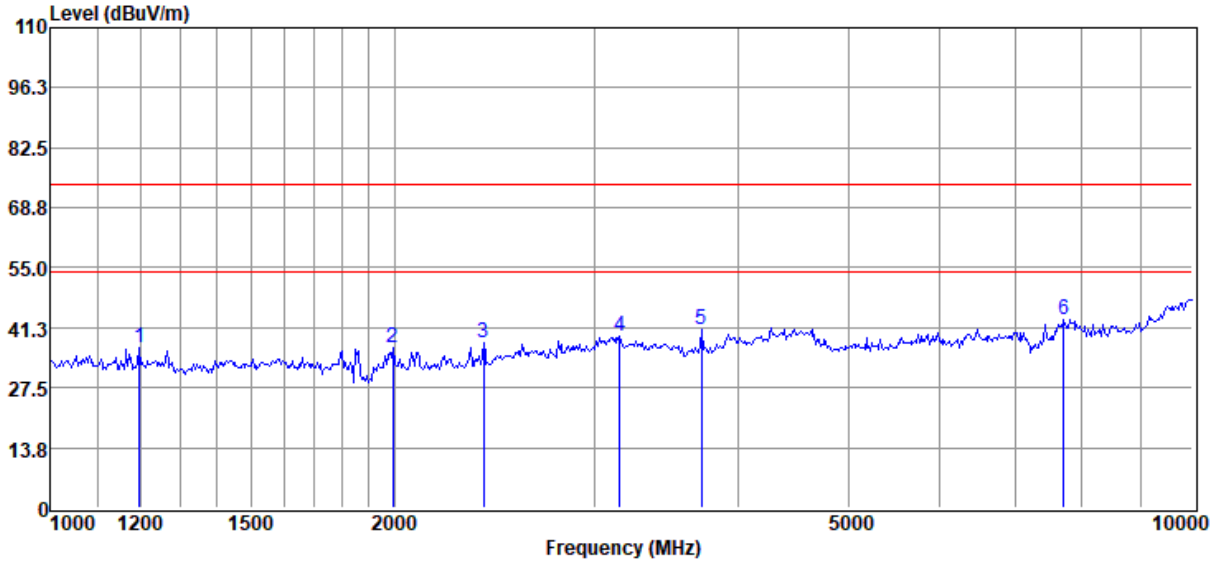
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Test mode:06 Test Channel:902.5MHz



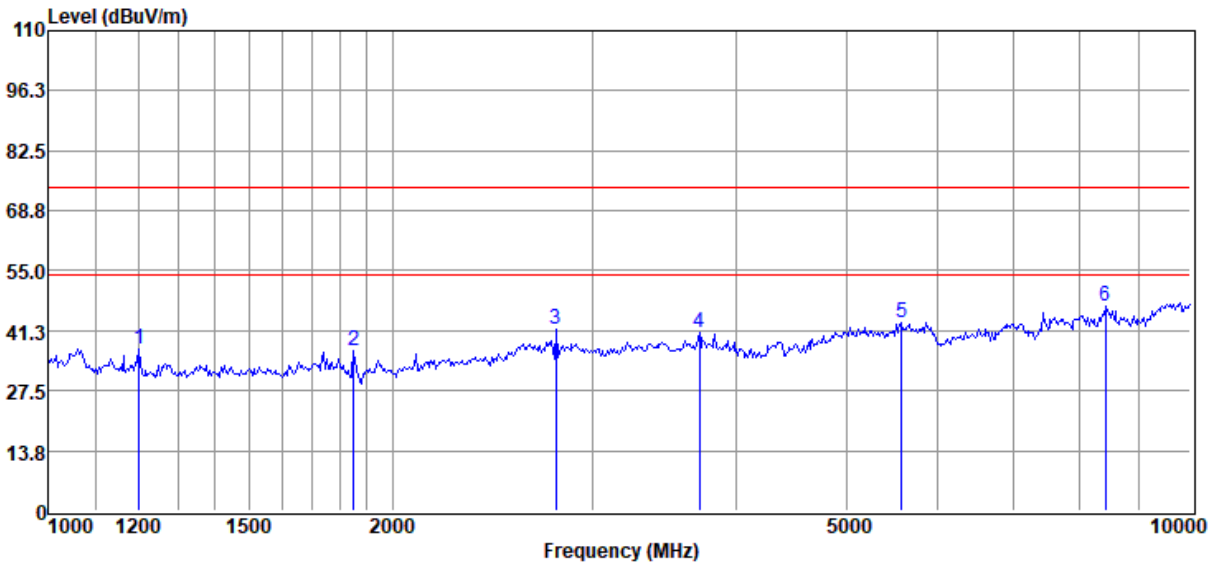
| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|---------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 1196.264 | 47.25 | 24.48 | 41.14 | 6.19 | 36.78 | 74.00 | -37.22 | Peak | VERTICAL |
| 2 | 1995.309 | 43.79 | 25.88 | 41.30 | 8.24 | 36.61 | 74.00 | -37.39 | Peak | VERTICAL |
| 3 | 2393.824 | 44.18 | 26.83 | 42.38 | 9.34 | 37.97 | 74.00 | -36.03 | Peak | VERTICAL |
| 4 | 3150.237 | 41.99 | 28.91 | 42.40 | 10.82 | 39.32 | 74.00 | -34.68 | Peak | VERTICAL |
| 5 | 3714.443 | 40.70 | 30.07 | 42.40 | 12.57 | 40.94 | 74.00 | -33.06 | Peak | VERTICAL |
| 6 | 7717.518 | 34.01 | 36.05 | 42.80 | 15.93 | 43.19 | 74.00 | -30.81 | Peak | VERTICAL |

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor
 2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit



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| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|---------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 1199.726 | 47.38 | 24.48 | 41.15 | 6.19 | 36.90 | 74.00 | -37.10 | Peak | HORIZONTAL |
| 2 | 1850.858 | 44.27 | 25.72 | 41.30 | 7.85 | 36.54 | 74.00 | -37.46 | Peak | HORIZONTAL |
| 3 | 2782.060 | 45.23 | 28.36 | 42.40 | 10.29 | 41.48 | 74.00 | -32.52 | Peak | HORIZONTAL |
| 4 | 3714.443 | 40.43 | 30.07 | 42.40 | 12.57 | 40.67 | 74.00 | -33.33 | Peak | HORIZONTAL |
| 5 | 5583.251 | 37.63 | 33.19 | 42.50 | 14.66 | 42.98 | 74.00 | -31.02 | Peak | HORIZONTAL |
| 6 | 8416.584 | 36.71 | 36.57 | 42.11 | 15.84 | 47.01 | 74.00 | -26.99 | Peak | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor
 2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit



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7.11 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
Test Method: ANSI C63.10 Section 6.9.3

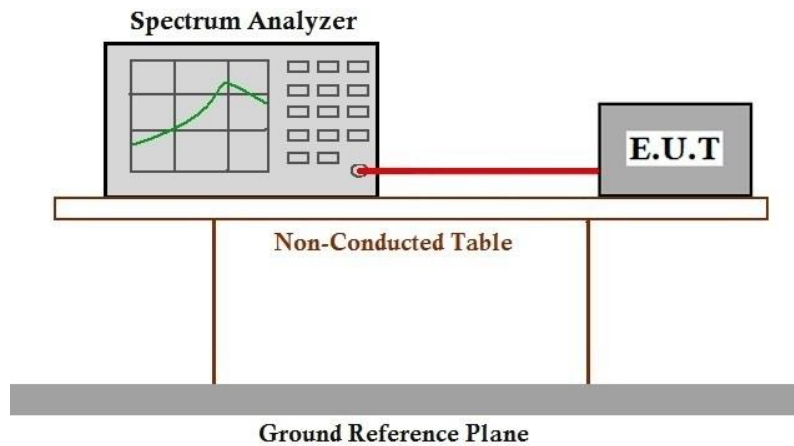
7.11.1 E.U.T. Operation

Operating Environment:
Temperature: 20.3 °C Humidity: 73.5 % RH Atmospheric Pressure: 1010 mbar

7.11.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation. |

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

| Test Mode | Test Frequency(MHz) | Bandwidth(KHz) |
|-------------|---------------------|----------------|
| Non-Hopping | 902.5 | 269.37 |
| | 915.0 | 264.76 |
| | 927.5 | 269.88 |

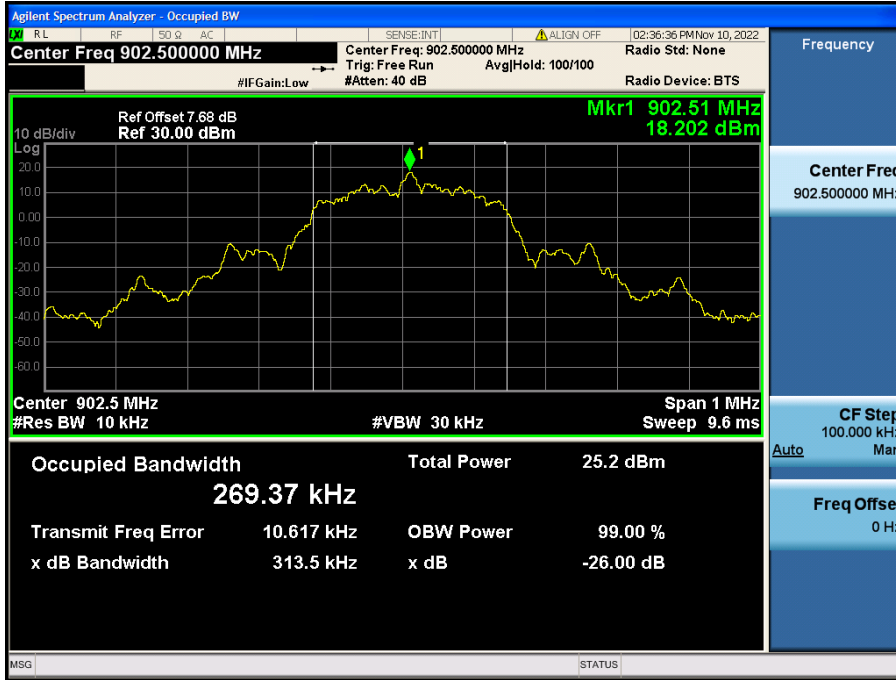


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Test Channel:902.5MHz



Test Channel:915MHz



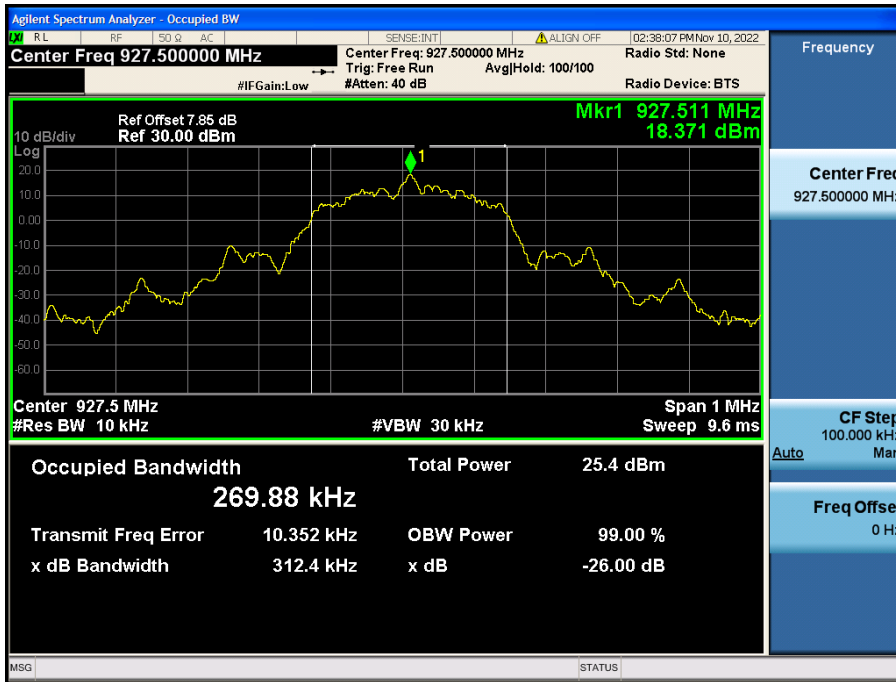
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Test Channel: 927.5MHz



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2209002071CO

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2209002071CO

-- End of the Report --

