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TEST REPORT

| Application No.: | KSCR2305000775AT |
|--------------------------|--|
| FCC ID: | SS3-RD241608RB |
| IC: | 11805A-RD241608RB |
| Applicant: | SZ DJI TECHNOLOGY CO., LTD. |
| Address of Applicant: | Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China. |
| Manufacturer: | SZ DJI TECHNOLOGY CO., LTD. |
| Address of Manufacturer: | Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China. |
| Factory: | DJI Baiwang Technology Company Ltd. |
| Address of Factory: | Room 101, Building 12, Baiwangxin Industrial Park, 1002 Songbai Road, Sunshine Community, Xili Street, Nanshan District, Shenzhen |
| Equipment Under Test (EU | Т): |
| EUT Name: | Rear Phased Array Radar |
| Model No.: | RD241608RB |
| Trade Mark: | DJI |
| Standard(s) : | 47 CFR Part 15, Subpart C 15.249 |
| | RSS-210 Issue 10 Amendment (April 2020) |
| | RSS-Gen Issue5 Amendment 2 (February 2021) |
| Date of Receipt: | 2023-05-06 |
| Date of Test: | 2023-05-08 to 2023-05-19 |
| Date of Issue: | 2023-05-26 |
| Test Result: | Pass* |

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

Enin fri

Eric Lin Laboratory Manager



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| | Revision Record | | | | | |
|---------|-----------------|------------|--------|--|--|--|
| Version | Description | Date | Remark | | | |
| 00 | Original | 2023-05-26 | / | | | |
| | | | | | | |
| | | | | | | |

| Authorized for issue by: | | | |
|--------------------------|---------------------------|---|--|
| | Paun Lin | | |
| | Pawn Liu/Project Engineer | - | |
| | Enie fri | | |
| | Eric Lin/Reviewer | - | |



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2 Test Summary

| Radio Spectrum Technical Requirement | | | | | |
|--------------------------------------|-------------------------------------|--------------------|--------|--------|--|
| Item | FCC Requirement | IC Requirement | Method | Result | |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.249 | RSS-Gen Clause 6.8 | N/A | Pass | |

N/A: Not applicable

| Radio Spectrum Matter Part | | | | |
|---|-------------------------------------|--|---------------------------------------|--------|
| Item | FCC Requirement | IC Requirement | Method | Result |
| 20dB Emission bandwidth | 47 CFR Part 15, Subpart C 15.249 | RSS-210 Issue 10 Amendment (April 2020) Annex B 10 | ANSI C63.10 (2013) Section 6.9 | Pass |
| Filed strength of fundamental | 47 CFR Part 15, Subpart C 15.249 | RSS-210 Issue 10 Amendment (April 2020) Annex B 10 | ANSI C63.10 (2013) Section 6.6 | Pass |
| Radiation Spurious Emission | 47 CFR Part 15, Subpart C 15.249 | RSS-210 Issue 10 Amendment (April 2020) Annex B 10 | ANSI C63.10 (2013) Section 6.6 | Pass |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.249 | RSS-210 Issue 10 Amendment (April 2020) Annex B 10 | ANSI C63.10 (2013) Section 6.10 | Pass |
| 99% Bandwidth | N/A | RSS-Gen Section 6.7 | RSS-Gen Section 6.7 | Pass |



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4 General Information

4.1 Details of E.U.T.

| Power supply: | DC 15V |
|----------------------------|--------------------------------------|
| Test voltage: | DC 15V |
| Operation Frequency Range: | 24.05GHz to 24.25GHz |
| Channel Number: | 1 |
| Modulation: | FMCW |
| Antenna type: | Linear Antenna |
| Antenna Gain: | 10dBi (Provided by the manufacturer) |
| SN: | 63LDL34001685L |
| Firmware Version: | V00.00.00.01 |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------|
| Notebook | LENOVO | K27 | EB24537645 |
| Receiver | DJI | / | / |

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 8.4 x 10 ⁻⁸ |
| 2 | Occupied Bandwidth | 3% |
| 3 | RF Radiated Power | 5.2dB (Below 1GHz) |
| 3 | RF Radiated Fower | 5.9dB (Above 1GHz) |
| | | 4.2dB (Below 30MHz) |
| 4 | Radiated Spurious Emission Test | 4.5dB (30MHz-1GHz) |
| 4 | | 5.1dB (1GHz-18GHz) |
| | | 5.4dB (Above 18GHz) |
| 5 | Temperature Test | 1°C |
| 6 | Humidity Test | 3% |
| 7 | Supply Voltages | 1.5% |
| 8 | Time | 3% |

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





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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China. Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

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).

4.5 Test Facility

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

• A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None





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5 Equipment List

| ltem | Equipment | Manufacturer | Model | Serial Number | Cal Date | Cal. Due Date |
|------|---|---------------|-------------------|---------------|------------|------------------|
| RF R | adiated Test | | | | | |
| 1 | Spectrum Analyzer | R&S | FSV40 | 101493 | 10/11/2022 | 10/10/2023 |
| 2 | Signal Generator | Agilent | E8257C | MY43321570 | 10/17/2022 | 10/16/2023 |
| 3 | Loop Antenna | Schwarzbeck | HXYZ9170 | 9170-108 | 02/20/2023 | 02/19/2024 |
| 4 | Bilog Antenna | TESEQ | CBL 6112D | 35403 | 06/21/2021 | 06/20/2023 |
| 5 | Bilog Antenna | SCHWARZBECK | VULB9160 | 9160-3342 | 04/13/2023 | 04/12/2024 |
| 6 | Horn-antenna(1-18GHz) | Schwarzbeck | BBHA9120D | 267 | 10/25/2022 | 10/24/2024 |
| 7 | Horn-antenna(1-18GHz) | ETS-LINDGREN | 3117 | 00143290 | 02/21/2023 | 02/20/2025 |
| 8 | Horn Antenna(18-40GHz) | Schwarzbeck | BBHA9170 | BBHA9170171 | 02/21/2023 | 02/20/2024 |
| 9 | Horn-antenna(40-60GHz) | REBES | SAZ-2410-19-S1 | 06299-01 | N/A | N/A |
| 10 | Horn-antenna(50-75GHz) | REBES | SAZ-2410-15-S1 | 01731-01 | N/A | N/A |
| 11 | Horn-antenna(75-110GHz) | REBES | SAZ-2410-10-S1 | 01773-09 | N/A | N/A |
| 12 | Horn-antenna(110-170GHz) | REBES | SAZ-2410-06-S1 | 01776-05 | N/A | N/A |
| 13 | Horn-antenna(140-220GHz) | REBES | SAZ-2410-05-S1 | 01759-04 | N/A | N/A |
| 14 | Horn-antenna(220-325GHz) | REBES | SAR-2309-03-S2 | 06300-01 | N/A | N/A |
| 15 | Extended waveguide(40-60GHz) | REBES | SWG-19025-FB | 06303-01 | N/A | N/A |
| 16 | Extended waveguide(50-75GHz) | REBES | SWG-15025-FB | 01525-09 | N/A | N/A |
| 17 | Extended waveguide(75-110GHz) | REBES | SWG-10025-FB | 01509-01 | N/A | N/A |
| 18 | Extended waveguide(110-170GHz) | REBES | SWG-06025-FB | 06302-01 | N/A | N/A |
| 19 | Extended waveguide(140-220GHz) | REBES | SWG-05025-FB | 06304-01 | N/A | N/A |
| 20 | Extended waveguide(220-325GHz) | REBES | SWG-03025-FB | 06301-01 | N/A | N/A |
| 21 | Harmonic mixer(110-170GHz) | REBES | STH-06SF-S1 | 06110-01 | N/A | N/A |
| 22 | Harmonic mixer(40-60GHz) | REBES | STH-19SF-S1 | 06937-01 | N/A | N/A |
| 23 | Waveguide Harmonic Mixer(50-75GHz) | KEYSIGHT | M1970V | MY51390966 | N/A | N/A |
| 24 | Waveguide Harmonic Mixer(50-75GHz) cable | Silverline | SLU18-SMSM-01.00M | 99612 | N/A | N/A |
| 25 | Waveguide Harmonic Mixer(75-110GHz) | KEYSIGHT | M1970W | MY51430883 | N/A | N/A |
| 26 | Waveguide Harmonic Mixer(75-110GHz) cable | Silverline | SLU18-SMSM-01.00M | 94202 | N/A | N/A |
| 27 | Pre-Amplifier(30MHz~18GHz) | LNA | / | / | 04/13/2023 | 04/12/2024 |
| 28 | Amplifier(18~40GHz) | COM-POWER | PAM-840A | 461332 | 10/17/2022 | 10/16/2023 |
| 29 | Low Pass Filter | MICRO-TRONICS | VLFX-950 | RV142900829 | N.C.R | N.C.R |
| 30 | High Pass Filter | Mini-Circuits | VHF-1200 | 15542 | N.C.R | N.C.R |
| 31 | RE test cable | / | RE01-RE04 | / | 04/13/2023 | 04/12/2024 |
| 32 | PXA Spectrum Analyzer | KEYSIGHT | N9010A | MY56480443 | 01/30/2023 | 01/29/2024 |
| 33 | Vector Signal Generator | R&S | SMW200A | 110074 | 10/11/2022 | 10/10/2023 |
| 34 | Software | Farad | EZ-EMC | CCS-03A1 | N/A | N/A |



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203; RSS-Gen Section 6.8

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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is Linear Antenna and no consideration of replacement.

Antenna location: Refer to EUT Photos.



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Radio Spectrum Matter Test Results 7

7.1 20dB Bandwidth

Test Requirement

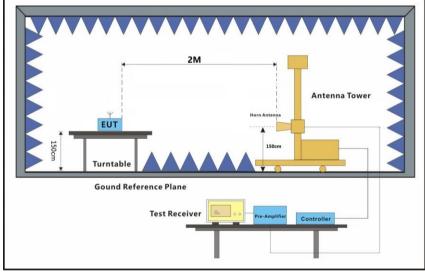
47 CFR Part 15, Subpart C 15.215& RSS-210 Issue 10 Amendment (April 2020) Annex B 10 ANSI C63.10 (2013) Section 6.9

Test Method: 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Atmospheric Pressure: 1002 mbar Humidity: 50 % RH Test Mode: a: TX mode _ Keep the EUT in continuously transmitting mode.

7.1.2 Test Setup Diagram



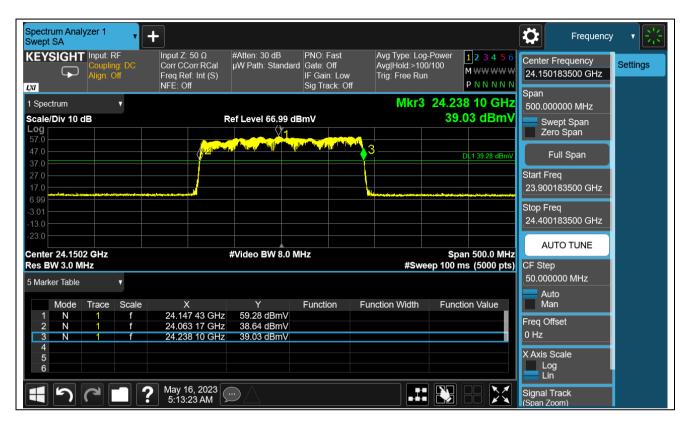
7.1.3 Measurement Procedure and Data

- 1) Place the EUT on the table and set it in the transmitting mode
- 2) SA set RBW=1%~5% OBW, VBW=3RBW and Detector=Peak
- Measure and record the result of 20dB bandwidth 3)





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| Low Frequency (GHz) | Limit (GHz) | High Frequency (GHz) | Limit (GHz) | 20db Bandwidth(MHz) | Result |
|------------------------|-------------|-------------------------|-------------|------------------------|--------|
| 24.06317 | 24.00 | 24.23810 | 24.25 | 174.93 | Pass |

Remark:

Center Frequency(GHz)= (High Frequency(GHz)+ Low Frequency(GHz))/2=24.151(GHz)

20db Bandwidth(MHz)= (High Frequency(GHz)- Low Frequency(GHz)*1000=174.93(MHz)



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7.2 99% Bandwidth

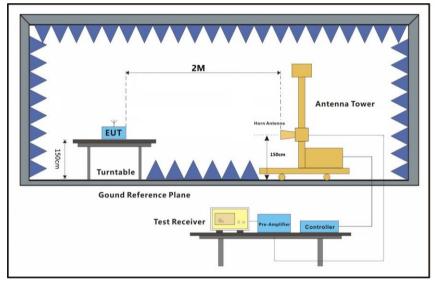
| Test Requirement | RSS-Gen Section 6.7 |
|------------------|---------------------|
| Test Method: | RSS-Gen Section 6.7 |

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1002 mbarTest Mode:a: TX mode _ Keep the EUT in continuously transmitting mode.

7.2.2 Test Setup Diagram

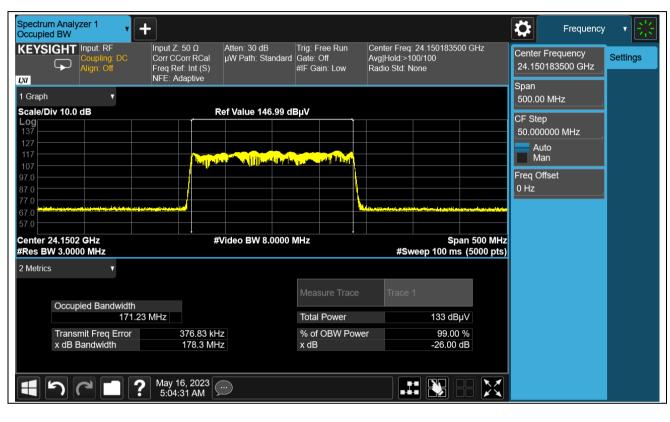


7.2.3 Measurement Procedure and Data





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| 99%OB(MHz) | Result |
|------------|--------|
| 171.23 | Pass |



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7.3 Filed Strength of Fundamental and Radiation Spurious Emission

| Test Requirement | 47 CFR Part 15, Subpart C 15.249(a); RSS-210 Issue 10 Amendment (April 2020) Annex B 10 |
|------------------|---|
| Test Method: | ANSI C63.10 (2013) Section 6.6 |
| Limit: | |

(1) The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

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

* Field strength limits are specified at a distance of 3 meters.

| Fundamental Limit Conversion | | | | | | | | |
|--|---|--------|--------|--|--|--|--|--|
| Average (mV/m) at 3M Average (dBuV/m) at 3M Average (dBuV/m) at 3M Peak (dBuV/m) at 2M 2M 2M | | | | | | | | |
| 250 | 107.9588 | 111.48 | 131.48 | | | | | |
| * (Limit = 107.9588 + 20LOG(3/ | * (Limit = 107.9588 + 20LOG(3/2) = 111.48 dBuV/m) | | | | | | | |

| Harmonic Limit Conversion | | | | | | |
|--|---------|-------|-------|--|--|--|
| Average (uV/m) at 3M Average (dBuV/m) at 3M Average (dBuV/m) at 2M 2M 2M | | | | | | |
| 2500 | 67.9588 | 71.48 | 91.48 | | | |

*(Limit=67.9588+20LOG(3/2)=71.48 dBuV/m)

(2) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits (follow the table), whichever is the lesser attenuation.

Below 30MHz

| Frequency | Field Strength (µA/m) | Magnetic field strength (H-Field) (μA/m) | Measurement Distance (metres) |
|---------------|-----------------------|---|----------------------------------|
| 9-490 kHz | 2,400/F (F in kHz) | 2,400/F (F in kHz) | 300 |
| 490-1,705 kHz | 24,000/F (F in kHz) | 24,000/F (F in kHz) | 30 |
| 1.705-30 MHz | 30 | N/A | 30 |

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| Frequency (MHz) | Field Strength microvolts/m at 3 metres (watts, e.i.r.p.) | | | | |
|-----------------|---|--------------|--|--|--|
| | Transmitters Receivers | | | | |
| 30-88 | 100 (3 nW) | 100 (3 nW) | | | |
| 88-216 | 150 (6.8 nW) | 150 (6.8 nW) | | | |
| 216-960 | 200 (12 nW) | 200 (12 nW) | | | |
| Above 960 | 500 (75 nW) | 500 (75 nW) | | | |

| Frequency | Field Strength microvolts/m at specific distance | | | | |
|-------------|--|-----------------|--|--|--|
| | Peak AVG | | | | |
| 18-40GHz | 77.48dBuV/m@2m | 57.48dBuV/m@2m | | | |
| Above 40GHz | 77.48dBuV/m @2m | 57.48dBuV/m @2m | | | |



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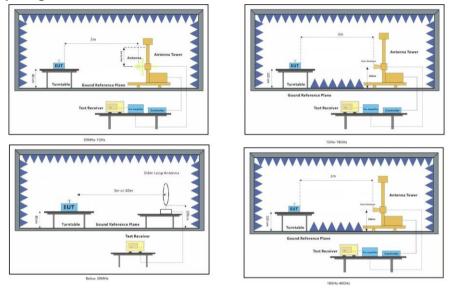
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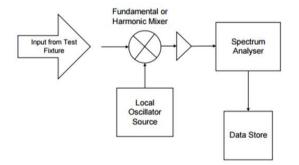
7.3.1 E.U.T. Operation

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1002 mbarTest Mode:a: TX mode _ Keep the EUT in continuously transmitting mode.

7.3.2 Test Setup Diagram





Above 40GHz





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7.3.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For 1-18GHz, 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. For 18-40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 2 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 2 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

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

Remark 2: 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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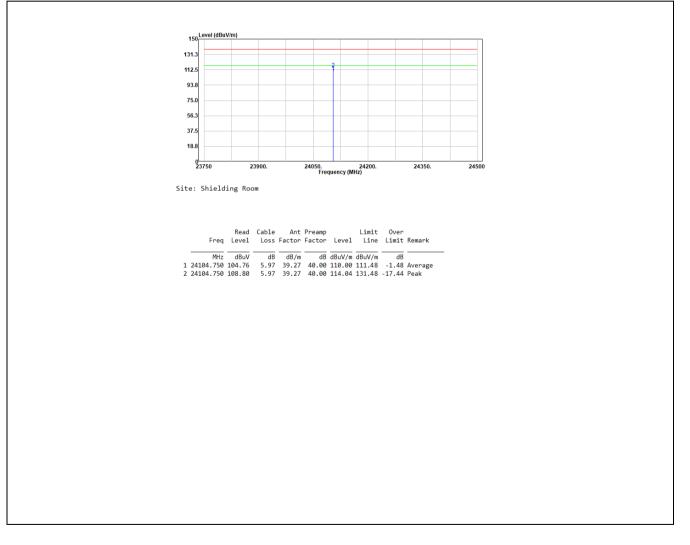


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Filed Strength of Fundamental

| Frequency (GHz) | Polarity | dBuV/m@2m | dBuV/m@3m | Limit(@2m) | Limit(@3m) | Result | Remark |
|--------------------|------------|-----------|-----------|------------|------------|--------|--------|
| 24.15 | Horizontal | 114.04 | 110.52 | 131.48 | 127.96 | Pass | Peak |
| 24.15 | Horizontal | 110.00 | 106.48 | 111.48 | 107.96 | Pass | AVG |
| 24.15 | Vertical | 113.33 | 109.81 | 131.48 | 127.96 | Pass | Peak |
| 24.15 | Vertical | 109.84 | 106.32 | 111.48 | 107.96 | Pass | AVG |

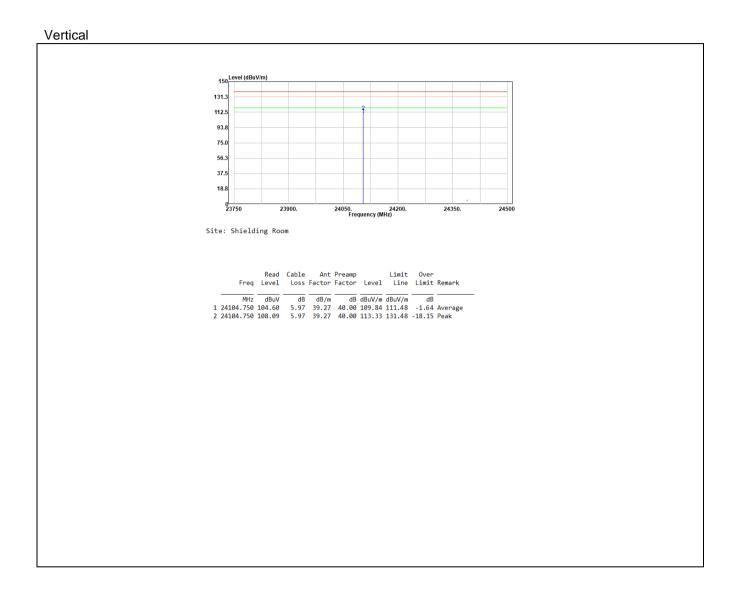
Horizontal







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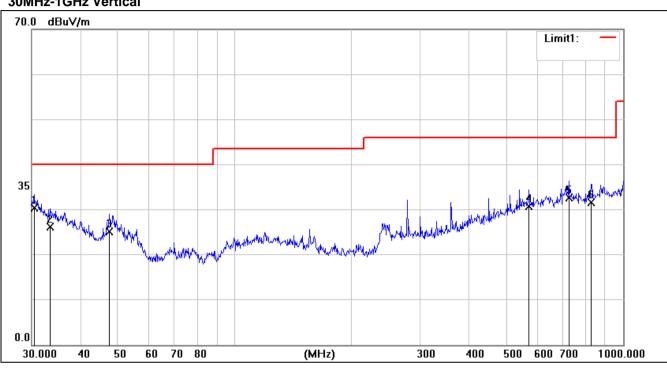


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Radiation Spurious Emission 30MHz-1GHz Vertical

| No. | Frequency | Reading | Correct | Result | Limit | Margin | Height | Degree | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (deg.) | |
| 1 | 30.4238 | 5.15 | 25.27 | 30.42 | 40.00 | -9.58 | 101 | 0 | QP |
| 2 | 33.4449 | 1.19 | 25.02 | 26.21 | 40.00 | -13.79 | 100 | 86 | QP |
| 3 | 47.4918 | 6.27 | 18.76 | 25.03 | 40.00 | -14.97 | 200 | 234 | QP |
| 4 | 572.6144 | 3.60 | 27.14 | 30.74 | 46.00 | -15.26 | 100 | 344 | QP |
| 5 | 724.2611 | 4.70 | 27.92 | 32.62 | 46.00 | -13.38 | 200 | 92 | QP |
| 6 | 827.4934 | 3.21 | 28.34 | 31.55 | 46.00 | -14.45 | 100 | 164 | QP |

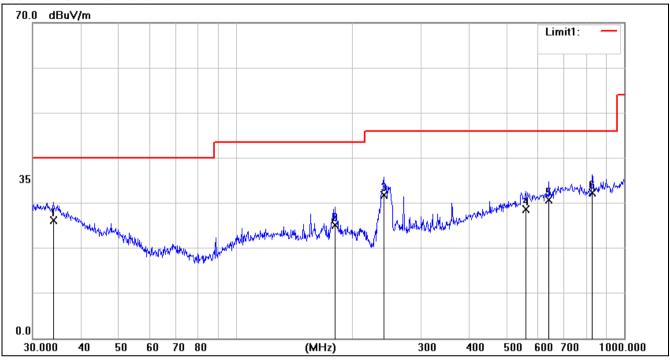


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30MHz-1GHz Horizontal

| No. | Frequency | Reading | Correct | Result | Limit | Margin | Height | Degree | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (deg.) | |
| 1 | 33.9174 | 1.29 | 24.96 | 26.25 | 40.00 | -13.75 | 200 | 289 | QP |
| 2 | 180.0165 | 8.41 | 16.66 | 25.07 | 43.50 | -18.43 | 100 | 220 | QP |
| 3 | 240.8304 | 12.94 | 18.81 | 31.75 | 46.00 | -14.25 | 100 | 324 | QP |
| 4 | 558.7302 | 1.33 | 27.35 | 28.68 | 46.00 | -17.32 | 100 | 64 | QP |
| 5 | 640.6110 | 2.93 | 27.85 | 30.78 | 46.00 | -15.22 | 100 | 272 | QP |
| 6 | 827.4934 | 3.96 | 28.34 | 32.30 | 46.00 | -13.70 | 100 | 294 | QP |



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| 100.0 | dBuV/m | | | | | | | | | | | | | | | | | | _ |
|-------|-----------------|------|------|--------|-----|------|------|------|------|-----|-----|-------|-----|-------|------|-------|--------------|-------|--------|
| | | | | | | | | | | | | | | | | | Limi Limi | | - |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 4 |
| _ | | | | | | | | | | | | | | | | | | | _ |
| 50- | | | | 1 X | | | | | | | ž | | | | | | 3 X | | 4 |
| + | | | | | | | | | | | | | | | | | | | - |
| ŀ | | | | _ | | | | | | | | | | | | | + | | - |
| ŀ | | | | _ | | | | | | | | | | | | | | | - |
| 0.0 | | | | | | | | | | | | | | | | | | | - |
| |) 10.0002700 |).00 | 4400 |).00 | 610 | 0.00 | 7800 | 0.00 | 9500 | .00 | 112 | 00.00 | 129 | 00.00 | 1460 |)0.00 | | 18000 | .00MHz |

1-18GHz Vertical

| No. | Frequency | Reading | Reading Correct | | Limit | Margin | Remark |
|-----|-----------|---------|-----------------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 4983.000 | 59.25 | -10.68 | 48.57 | 74.00 | -25.43 | peak |
| 2 | 11035.000 | 48.10 | 1.92 | 50.02 | 74.00 | -23.98 | peak |
| 3 | 16034.000 | 47.76 | 3.43 | 51.19 | 74.00 | -22.81 | peak |



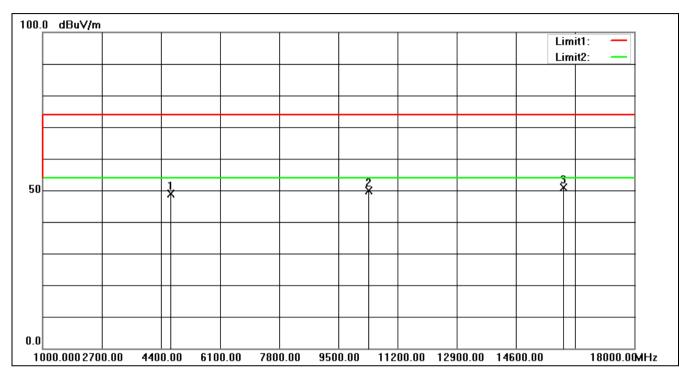
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1-18GHz Horizontal



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 4683.000 | 60.65 | -11.70 | 48.95 | 74.00 | -25.05 | peak |
| 2 | 10364.000 | 48.57 | 1.26 | 49.83 | 74.00 | -24.17 | peak |
| 3 | 15967.000 | 47.52 | 3.27 | 50.79 | 74.00 | -23.21 | peak |



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120.0 dBuV/m Limit1: Limit2: 60 ł ž t 0.0 18000.00@0200.00 40000.00MHz 22400.00 24600.00 26800.00 29000.00 31200.00 33400.00 35600.00

18-40GHz Vertical

| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 21638.000 | 40.03 | 12.76 | 52.79 | 77.48 | -24.69 | peak |
| 2 | 29736.000 | 41.45 | 13.19 | 54.64 | 77.48 | -22.84 | peak |
| 3 | 36412.000 | 35.51 | 21.32 | 56.83 | 77.48 | -20.65 | peak |



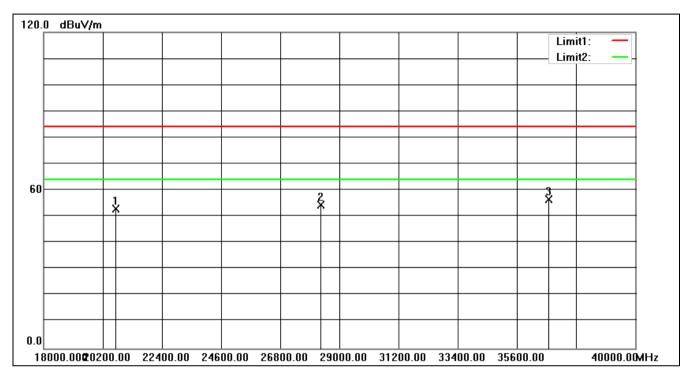
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18-40GHz Horizontal



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 20694.000 | 40.29 | 12.62 | 52.91 | 77.48 | -24.57 | peak |
| 2 | 28316.000 | 41.35 | 12.96 | 54.31 | 77.48 | -23.17 | peak |
| 3 | 36792.000 | 33.21 | 23.28 | 56.49 | 77.48 | -20.99 | peak |



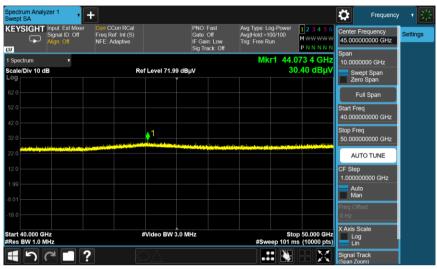
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40-50GHz Vertical



40-50GHz Horizontal

| Spectrum Swept SA | Analyzer 1 | F | | | | | 🛟 Frequ | uency v 🚉 |
|-----------------------|--|---|----------------------|--|--|---------------------------------|--|-----------|
| KEYSI | GHT Input: Ext Mixer Signal ID: Off Align: Off | Corr CCorr RCal Freq Ref: Int (S) NFE: Adaptive | Gate IF Ga | : Fast : Off in: Low irack: Off | Avg Type: Log-Power Avg[Hold:>100/100 Trig: Free Run | 123456 MWWWWW PNNNNN | Center Frequency 45.000000000 G Span | Settings |
| 1 Spectru Scale/Di | | Re | Ref Level 71.99 dBµV | | Mkr1 44.031 4 GHz 30.54 dBµV | | | |
| Log | | | | | | | Swept Span Zero Span | |
| 62.0 52.0 | | | | | | | Full Span Start Freg | |
| 42.0 | | | | | | | Start Freq 40.000000000 G | Hz |
| 32.0 | | | 1 | | | | Stop Freq 50.000000000 G | Hz |
| 22.0 | | | | iall ship ha dah | | | AUTO TUNE | |
| 12.0 | | | | | | | CF Step 1.000000000 GH | |
| 1.99 | | | | | | | Auto Man | |
| -8.01 | | | | | | | Freq Offset | |
| -18.0 | | | | | | | 0 Hz X Axis Scale | |
| Start 40. #Res BW | 000 GHz / 1.0 MHz | | #Video BW 3.0 MHz | | Sto #Sweep 101 m | op 50.000 GHz ns (10000 pts) | Log | |
| | っ (| | | | | | Signal Track (Span Zoom) | |
| requency | Distanc | e Pe | ak Value | A | V Limit | Polar | ization | Result |
| (GHz) | (M) | (0 | dBuv/m) | (d | Buv/m) | | | |
| 44.0734 | 2 | | 30.40 | ę | 57.48 | | V | PASS |
| 44.0314 | 2 | | 30.54 | Ę | 57.48 | | Н | PASS |



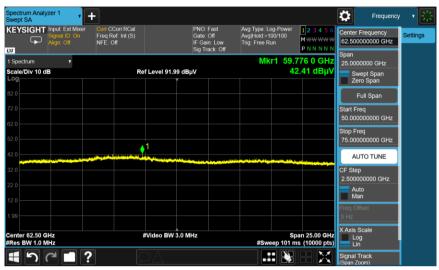
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50-75GHz Vertical



50-75GHz Horizontal

| Spectrum Swept SA | Analyzer 1 | · | | | | | Frequ | uency V |
|--|-----------------|--|-------------------|---|--|----------------------------------|---|---------|
| | Signal ID: On | Corr CCorr RCal Freq Ref: Int (S) NFE: Off | | | Avg Type: Log-Power Avg Hold:>100/100 Trig: Free Run | 123456 MWWWWW PNNNNN | Center Frequency 62.500000000 G Span | |
| 1 Spectru Scale/Di Log | | Ref Lo | evel 91.99 dBµV | | | .235 9 GHz 42.00 dBµV | 25.0000000 GHz Swept Span Zero Span | |
| 82 0 72 0 52 0 42 0 32 0 22 0 | | 1 | | | | | Full Span Start Freq 50.000000000 G Stop Freq 75.00000000 G AUTO TUNE CF Step 2.500000000 GH | Hz |
| 12 0 1 99 Center 6 #Res BW | 1.0 MHz | #Vio | leo BW 3.0 MHz | | #Sweep 101 | Span 25.00 GHz ms (10000 pts) | Auto Man Freq Offset 0 Hz X Axis Scale Log Lin | |
| | つ (~ - ? | D, | Δ | | | | Signal Track (Span Zoom) | |
| Frequency (GHz) | Distance (M) | | k Value 8uv/m) | | V Limit Buv/m) | Polar | ization | Result |
| 59.7760 | 2 | 4 | 2.41 | Į | 57.48 | | V | PASS |
| 59.2359 | 2 | 4 | 2.00 | Ę | 57.48 | | Н | PASS |



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75-110GHz Vertical



75-110GHz Horizontal

| Swept S/ | | • | | | | | | Ç | Frequency | · 👬 |
|------------------------------|---|--|----------------------|-------------------------|---|-----------------|-------------------------------|-----------------------------------|-----------------------|----------|
| KEYSI | GHT Input: Ext Mixer Signal ID: On Align: Off | Corr CCorr RCal Freq Ref: Int (S) NFE: Off | | | Avg Type: Lo Avg Hold:>10 Trig: Free Ru | 0/100 | 123456 MWWWWW PNNNNN | | equency 0000 GHz | Settings |
| 1 Spectru Scale/Di Log | | Ref Le | vel 101.99 dBµV | | Mk | | .332 GHz .68 dBµV | Span 35.00000 Swep Zeros | t Span | |
| 92.0 | | | | | | | | Full Start Freq | Span | |
| 72.0 62.0 | | | | | | | | Stop Freq | 0000 GHz 00000 GHz | |
| 52.0 42.0 | | Name of the state of the second s | -Million Association | م ەنىن ئەلىس | a di sa | •1 ⊷,≉i,siss | ***** | AUTC CF Step 3.500000 | 0 TUNE | |
| 32.0 | | | | | | | | Auto Man Freq Offse 0 Hz | et | |
| Center 9 #Res BV | 2.50 GHz V 1.0 MHz | #Vid | eo BW 3.0 MHz | | #Swe | | an 35.00 GHz s (10000 pts) | X Axis Sca Log Lin | ile | |
| | า 🦳 🗌 ? | | Δ | | | | | Signal Tra (Span Zoon | ck 1) | |
| equency (GHz) | Distance (M) | | k Value uv/m) | | V Limi Buv/m | - | Polar | izatic | n | Result |
| 04.406 | 2 | 4 | 3.72 | ļ | 57.48 | | | V | | PASS |
| 03.332 | 2 | 4 | 3.68 | į | 57.48 | | | Н | | PASS |



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7.4 Radiated Emissions which fall in the restricted bands

Test Requirement

47 CFR Part 15, Subpart C 15.205 & 15.209; RSS-210 Issue 10 Amendment (April 2020) Annex B 10 ANSI C63.10 (2013) Section 6.10.5

Test Method: 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.

Remark: For measurement distance 2m, the filed strength doesn't exceed 57.48 dBuV/m



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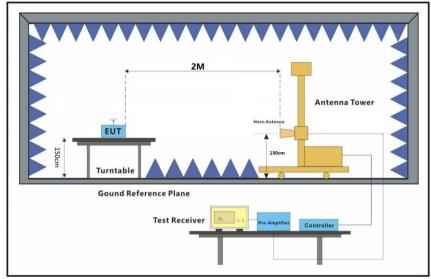
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7.4.1 E.U.T. Operation

Operating Environment:

| Temperature: | 22 °C | Humidity: | 50 % RH | Atmospheric Pressure: | 1002 | mbar |
|--------------|-----------|---------------|-----------------|---------------------------|------|------|
| Test Mode: | a: TX moo | de _ Keep the | e EUT in contin | uously transmitting mode. | | |

7.4.2 Test Setup Diagram





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7.4.3 Measurement Procedure and Data

- 1) The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 2 meter fullyanechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) 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.
- 3) 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.
- 4) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 5) 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.
- 6) 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.
- 7) 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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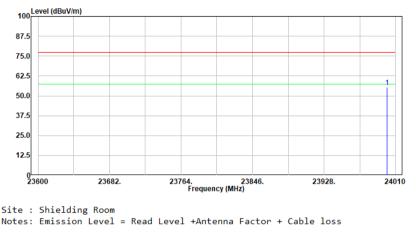
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Polarization:Horizontal; Modulation: FMCW; (Left)

1



| Freq | | Ant Factor | Level | Limit Line | | Remark | |
|------|------|---------------|--------|---------------|----|--------|---|
| MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | - |

| 11112 | ubuv | ub/m | ubuv/iii | ubuv/m | ub |
|-----------|-------|-------|----------|--------|-------------|
| 24000.000 | 30.80 | 39.23 | 55.38 | 77.48 | -22.10 Peak |



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Polarization:Vertical; Modulation: FMCW;(Left)



MHz dBuV dB/m dBuV/m dBuV/m dB 1 24000.000 31.11 39.23 55.69 77.48 -21.79 Peak



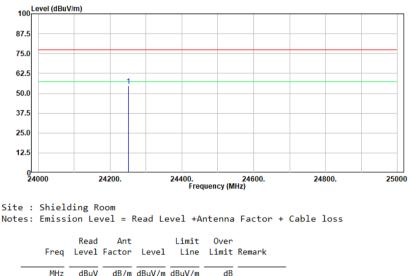
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Polarization:Horizontal; Modulation: FMCW; (Right)



 MHz
 dBuV
 dB/m
 dBuV/m
 dBuV/m
 dB

 1
 24250.000
 30.50
 39.33
 54.84
 77.48
 -22.64
 Peak



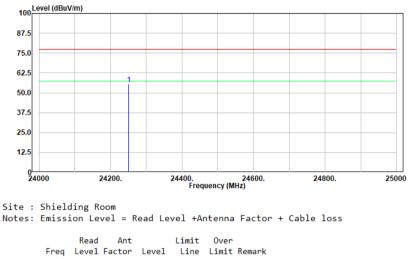
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Polarization:Vertical; Modulation: FMCW;(Right)



| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | |
|---|-----------|-------|-------|--------|--------|--------|------|--|
| 1 | 24250.000 | 31.25 | 39.33 | 55.59 | 77.48 | -21.89 | Peak | |



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2305000775AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2305000775AT

- End of the Report -



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