



FCC TEST REPORT

FCC ID: SY4-A02039

On Behalf of

Shanghai Huace Navigation Technology Ltd.

Geodetic GNSS Receiver

Model No.: i93

Prepared for : Shanghai Huace Navigation Technology Ltd.
Address : 577 Songying Road, Qingpu District, 201706 Shanghai, China

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.
Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District,
 518103, Shenzhen, Guangdong, China

Report Number : A2303056-C01-R05
Date of Receipt : March 14, 2023
Date of Test : March 14, 2023-April 8, 2023
Date of Report : April 18, 2023
Version Number : V0

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TEST REPORT DECLARATION

Applicant : Shanghai Huace Navigation Technology Ltd.
Address : 577 Songying Road, Qingpu District, 201706 Shanghai, China
Manufacturer : Shanghai Huace Navigation Technology Ltd.
Address : 577 Songying Road, Qingpu District, 201706 Shanghai, China
EUT Description : Geodetic GNSS Receiver

(A) Model No. : i93

(B) Trademark :



Measurement Standard Used:

FCC CFR Title 47 Part 90, FCC CFR Title 47 Part 2,

ANSI TIA-603-E:2016

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 2, Part 90, RSS-119, RSS-Gen limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Lucas Pang
Project Engineer

A handwritten signature in black ink that reads 'Lucas Pang'.

Approved by (name + signature).....: Reak Yang
Project Manager

A handwritten signature in black ink that reads 'Reak Yang'.

Date of issue.....: April 18, 2023

Revision History

| Revision | Issue Date | Revisions | Revised By |
|----------|----------------|------------------------|------------|
| V0 | April 18, 2023 | Initial released Issue | Lucas Pang |

1. Summary Of Standards And Results

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

| Test Item | Test Requirement | Standards Paragraph | Result |
|--|---------------------------|---------------------|--------|
| Transmitter Power(Conducted) | FCC PART 90 | §90.205, | P |
| Occupied Bandwidth & Emission Mask | FCC PART 90 | §90.209, §90.210 | P |
| Spurious Emissions(conducted) | FCC PART 90 | §90.210, | P |
| Spurious Emissions(Radiated) | FCC PART 90 | §90.210, | P |
| Transient Frequency Behavior | FCC PART 90 | §90.214, | P |
| Frequency Stability | FCC PART 90 | §90.213, | P |
| Modulation Characteristics - Audio Frequency Response | FCC PART 2 FCC PART 90 | §2.1047(a), §90.207 | N/A |
| Modulation Characteristics - Modulation Limiting | FCC PART 2 FCC PART 90 | §2.1047(b), §90.207 | N/A |
| Adjacent channel power | FCC PART 90 | §90.221 | P |
| Note: 1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable. 4. The conclusion of this test report is judged by actual test data without considering measurement uncertainty. | | | |

2. General Information

2.1. Description of Device (EUT)

Description : Geodetic GNSS Receiver
Model Number : i93
DIFF. : N/A
Test Voltage : DC 5V from USB with DC 7.2V from Battery

UHF

Operation frequency : 410MHz-470MHz
Conducted Power : 0.5W(27dBm), 1W(30dBm), 2W(33dBm)
Channel spacing : 12.5KHz, 25KHz
Modulation type : 4-FSK
Antenna Type : Rod Antenna, Maximum Gain is 4.0dBi
Software version : 1.0.7
Hardware version : V1.0.1

Note: All Conducted Power have been tested, and recorded the worst case 2W(33dBm) results in this report.

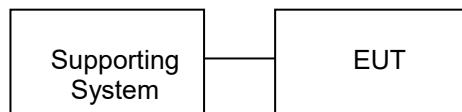
2.2. Accessories of Device (EUT)

Accessories : /
 Manufacturer : /
 Model : /
 Ratings : /

2.3. Tested Supporting System Details

| No. | Description | Manufacturer | Model | Serial Number | Certification or SDOC |
|-----|-------------|--------------|--------------|---------------|-----------------------|
| 1. | Notebook PC | Lenovo | ThinkPad E14 | N/A | N/A |

2.4. Block Diagram of connection between EUT and simulators



The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

2.5. Test Mode

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

| Test Mode | | |
|-----------|-------------------------------|--|
| Item | Description of operation mode | Note |
| 1 | 4-FSK+CS12.5KHz+TX | at maximum rated power for transmitter |
| 2 | 4-FSK+CS25KHz+TX | at maximum rated power for transmitter |

Note: The worst case modes for all test are the item 1 and item 3.

Description Operation Frequency

| 4-FSK | | |
|--------------|-----------------------|----------------|
| Test Channel | Channel spacing (KHz) | Frequency(MHz) |
| Low | 12.5 | 410.050 |
| | 25 | 410.050 |
| Mid | 12.5 | 440.000 |
| | 25 | 440.000 |
| High | 12.5 | 469.950 |
| | 25 | 469.950 |

2.6. Test Conditions

| Items | Required | Actual |
|--------------------|-----------|--------|
| Temperature range: | 15-35 °C | 24 °C |
| Humidity range: | 25-75% | 56% |
| Pressure range: | 86-106kPa | 980kPa |

2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd
 Building i, No.2, Lixin Road, Fuyong Street, Bao'an District,
 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
 Registration Number: 293631

July 15, 2019 Certificated by IC
 Registration Number: CN0085

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

| Item | Uncertainty |
|--|---|
| Uncertainty for Power point Conducted Emissions Test | 2.74dB |
| Uncertainty for Radiation Emission test in 3m chamber (below 30MHz) | 2.13 dB(Polarize: V) 2.57dB(Polarize: H) |
| Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz) | 3.77dB(Polarize: V) 3.80dB(Polarize: H) |
| Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz) | 4.16dB(Polarize: H) 4.13dB(Polarize: V) |
| Uncertainty for radio frequency | 5.4×10-8 |
| Uncertainty for conducted RF Power | 0.37dB |
| Uncertainty for temperature | 0.2°C |
| Uncertainty for humidity | 1% |
| Uncertainty for DC and low frequency voltages | 0.06% |

2.9. Test Equipment List

| Equipment | Manufacturer | Model No. | Firmware version | Serial No. | Last cal. | Cal. Due day |
|------------------------|---------------|----------------------|------------------|------------------------|------------|--------------|
| Test Receiver | ROHDE&SCHWARZ | ESCI | 4.42 SP1 | 101165 | 2022.08.22 | 2023.08.21 |
| Spectrum analyzer | ROHDE&SCHWARZ | FSV40-N | 2.3 | 102137 | 2022.08.22 | 2023.08.21 |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | / | 2106 | 2021.08.30 | 2023.08.29 |
| Filter | KANGMAI | ZLPF-LDC-100 0- 1959 | / | 1209002075 | 2022.08.22 | 2023.08.21 |
| Filter | WAINWRIGHT | WHKX2.80 /18G- 12SS | / | SN1 | 2022.08.22 | 2023.08.21 |
| RF Cable | Resenberger | Cable 4 | / | PE1 | 2022.08.22 | 2023.08.21 |
| CMU200 | ROHDE&SCHWARZ | CMU200 | V5.21 | 116785 | 2022.08.22 | 2023.08.21 |
| Signal Analyzer | Agilent | N9020A | A.14.16 | MY499100060 | 2022.08.22 | 2023.08.21 |
| vector Signal | Agilent | N5182A | / | MY49060042 | 2022.08.22 | 2023.08.21 |
| vector Signal | Agilent | E4438C | / | US44271917 | 2022.08.22 | 2023.08.21 |
| Amplifier | HP | HP8347A | / | 2834A00455 | 2022.08.22 | 2023.08.21 |
| Amplifier | Agilent | 8449B | / | 3008A02664 | 2022.08.22 | 2023.08.21 |
| Filter | SKET | HPF_1-18G-55 dB | / | N/A | 2022.08.22 | 2023.08.21 |
| Test Receiver | ROHDE&SCHWARZ | ESR | 2.28 SP1 | 1316.3003K03-102082-Wa | 2022.08.22 | 2023.08.21 |
| Bilog Antenna | SCHWARZBECK | VULB 9168 | / | 9168-627 | 2021.08.30 | 2023.08.29 |
| 9*6*6 anechoic | CHENYU | 9*6*6 | / | N/A | 2022.05.17 | 2025.05.16 |
| RF Cable | Resenberger | Cable 1 | / | RE1 | 2022.08.22 | 2023.08.21 |
| RF Cable | Resenberger | Cable 2 | / | RE2 | 2022.08.22 | 2023.08.21 |
| RF Cable | Resenberger | Cable 3 | / | CE1 | 2022.08.22 | 2023.08.21 |
| Power Sensor | DARE | RPR3006W | / | 15100041SNO 91 | 2022.08.22 | 2023.08.21 |
| Power Sensor | DARE | RPR3006W | / | 15100041SNO 92 | 2022.08.22 | 2023.08.21 |
| CMW500 | ROHDE&SCHWARZ | CMW500 | V 3.7.22 | 1201.0002K50-117239-sM | 2022.08.22 | 2023.08.21 |
| Loop Antenna | SCHWARZBECK | FMZB 1519B | / | 00128 | 2021.08.30 | 2023.08.29 |
| Temp. & Humid. Chamber | Weihuang | WHTH-1000-40-880 | / | 100631 | 2022.04.21 | 2023.04.20 |
| Adjustable attenuator | MWRFtest | N/A | / | N/A | N/A | N/A |
| 10dB Attenuator | Mini-Circuits | DC-6G | / | N/A | N/A | N/A |

| Software Information | | | |
|-----------------------------|---------------|--------------|-----------|
| Test Item | Software Name | Manufacturer | Version |
| RE | EZ-EMC | farad | Alpha-3A1 |
| CE | EZ-EMC | farad | Alpha-3A1 |
| RF-CE | MTS 8310 | MW | V2.0.0.0 |

3. Test Results and Measurement Data

3.1. Transmitter Power (Conducted)

3.1.1. Test Specification

| | |
|--------------------------|---|
| Test Requirement: | Part 90.205, RSS-119(5.4) |
| Test Method: | FCC part 2.1046 |
| Limits: | Please refer section FCC Part 90.205 and , RSS-119(5.4) |
| Test Setup: |  <p>The diagram illustrates the test setup. A 'Power Meter' box is connected to an 'EUT' (Equipment Under Test) box via a line that passes through a rectangular box labeled 'ATT. 20dB'.</p> |
| Test Procedure: | <ol style="list-style-type: none">Connect the equipment as illustrated.Turn on the power meterRecord value |
| Test Result: | PASS |

3.1.2. Test Results

4-FSK mode (2W):

| Channel spacing (KHz) | Frequency (MHz) | Maximum Conducted Output Power(Peak) (dBm) | Maximum ERP (dBm) | Stated ERP Power (dBm) | Conducted Output Power Limit (dBm) | Result |
|-----------------------|-----------------|--|-------------------|------------------------|------------------------------------|--------|
| 12.5 | 410.050 | 32.781 | 34.631 | 35 | 33±1 | PASS |
| 25 | 410.050 | 32.793 | 34.643 | 35 | 33±1 | PASS |
| 12.5 | 440.000 | 32.921 | 34.771 | 35 | 33±1 | PASS |
| 25 | 440.000 | 32.885 | 34.735 | 35 | 33±1 | PASS |
| 12.5 | 469.950 | 32.863 | 34.713 | 35 | 33±1 | PASS |
| 25 | 469.950 | 32.912 | 34.762 | 35 | 33±1 | PASS |

4-FSK mode (1W):

| Channel spacing (KHz) | Frequency (MHz) | Maximum Conducted Output Power(Peak) (dBm) | Maximum ERP (dBm) | Stated ERP Power (dBm) | Conducted Output Power Limit (dBm) | Result |
|-----------------------|-----------------|--|-------------------|------------------------|------------------------------------|--------|
| 12.5 | 410.050 | 29.452 | 31.302 | 32 | 30±1 | PASS |
| 25 | 410.050 | 29.668 | 31.518 | 32 | 30±1 | PASS |
| 12.5 | 440.000 | 29.913 | 31.763 | 32 | 30±1 | PASS |
| 25 | 440.000 | 29.825 | 31.675 | 32 | 30±1 | PASS |
| 12.5 | 469.950 | 29.874 | 31.724 | 32 | 30±1 | PASS |
| 25 | 469.950 | 29.694 | 31.544 | 32 | 30±1 | PASS |

4-FSK mode (0.5W):

| Channel spacing (KHz) | Frequency (MHz) | Maximum Conducted Output Power(Peak) (dBm) | Maximum ERP (dBm) | Stated ERP Power (dBm) | Conducted Output Power Limit (dBm) | Result |
|-----------------------|-----------------|--|-------------------|------------------------|------------------------------------|--------|
| 12.5 | 410.050 | 26.812 | 28.662 | 29 | 27±1 | PASS |
| 25 | 410.050 | 26.746 | 28.596 | 29 | 27±1 | PASS |
| 12.5 | 440.000 | 26.569 | 28.419 | 29 | 27±1 | PASS |
| 25 | 440.000 | 26.817 | 28.667 | 29 | 27±1 | PASS |
| 12.5 | 469.950 | 26.822 | 28.672 | 29 | 27±1 | PASS |
| 25 | 469.950 | 26.691 | 28.541 | 29 | 27±1 | PASS |

Note: 1. $ERP = \text{Maximum Conducted Output Power(Peak)} + \text{Antenna Gain} - 2.15dB$

3.2. Occupied Bandwidth and Emission Mask

3.2.1. Test Specification

| | |
|--------------------------|--|
| Test Requirement: | FCC Part 90.209, FCC Part 90.210, RSS-119(5.5) |
| Test Setup: |  <p style="text-align: center;">Spectrum Analyzer EUT</p> |
| Test Procedure: | <p>The resolution bandwidth of the spectrum analyzer was set at 300 Hz and the spectrum was recorded in the Frequency band \pm 50KHz from the carrier frequency for Occupied Bandwidth, the resolution bandwidth of the spectrum analyzer was set at 100 Hz and the spectrum was recorded in the Frequency band \pm 100KHz from the carrier frequency for Emission Mask.</p> |
| Test Result: | PASS |

3.2.2. Test data

Occupied Bandwidth:

| 4-FSK 12.5KHz Channel Spacing: | | | | | |
|--------------------------------|-----------------|----------------------|------------------------------|------------------------------------|--------|
| Channel | Frequency (MHz) | 26dB Bandwidth (KHz) | 99% Occupied Bandwidth (KHz) | 99% Occupied Bandwidth Limit (KHz) | Result |
| Low | 410.050 | 10.13 | 7.082 | 11.25 | PASS |
| Mid | 440.000 | 9.273 | 7.987 | 11.25 | PASS |
| High | 469.950 | 9.792 | 7.152 | 11.25 | PASS |

| 4-FSK 25KHz Channel Spacing: | | | | | |
|------------------------------|-----------------|----------------------|------------------------------|------------------------------------|--------|
| Channel | Frequency (MHz) | 26dB Bandwidth (KHz) | 99% Occupied Bandwidth (KHz) | 99% Occupied Bandwidth Limit (KHz) | Result |
| Low | 410.050 | 14.76 | 10.471 | 20 | PASS |
| Mid | 440.000 | 14.78 | 10.305 | 20 | PASS |
| High | 469.950 | 14.79 | 10.177 | 20 | PASS |

Emission Mask:

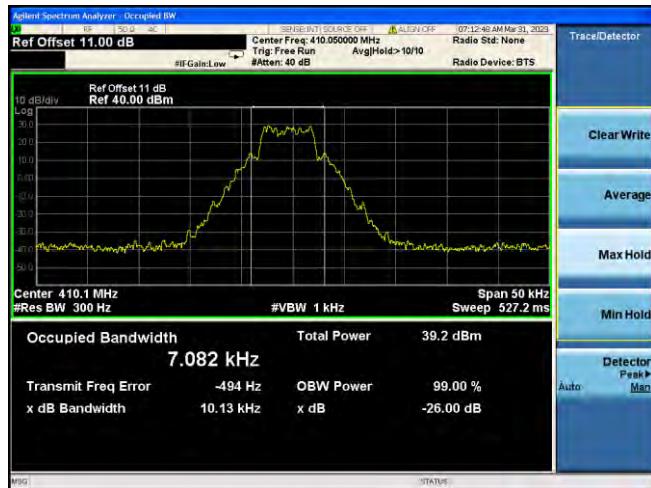
| 4-FSK 12.5KHz Channel Spacing: | | | | |
|--------------------------------|-----------------|-----------------|-------|--------|
| Channel | Frequency (MHz) | Applicable Mask | RBW | Result |
| Low | 410.050 | D | 100Hz | PASS |
| Mid | 440.000 | D | 100Hz | PASS |
| High | 469.950 | D | 100Hz | PASS |

| 4-FSK 25KHz Channel Spacing: | | | | |
|------------------------------|-----------------|-----------------|-------|--------|
| Channel | Frequency (MHz) | Applicable Mask | RBW | Result |
| Low | 410.050 | C | 100Hz | PASS |
| Mid | 440.000 | C | 100Hz | PASS |
| High | 469.950 | C | 100Hz | PASS |

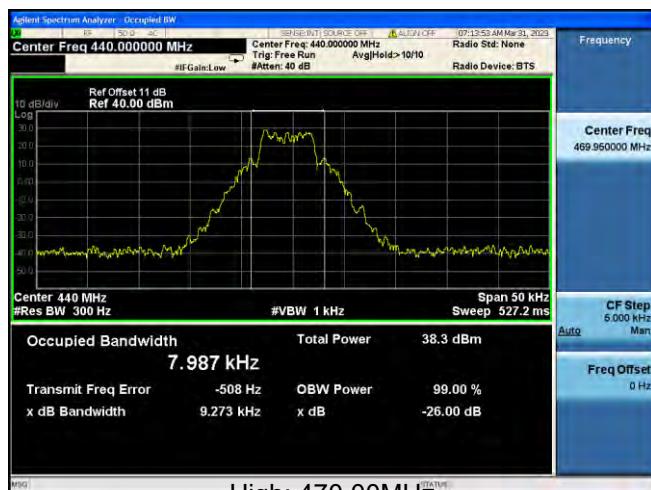
Test plots as follows:

4-FSK 12.5KHz Channel Spacing: Occupied Bandwidth

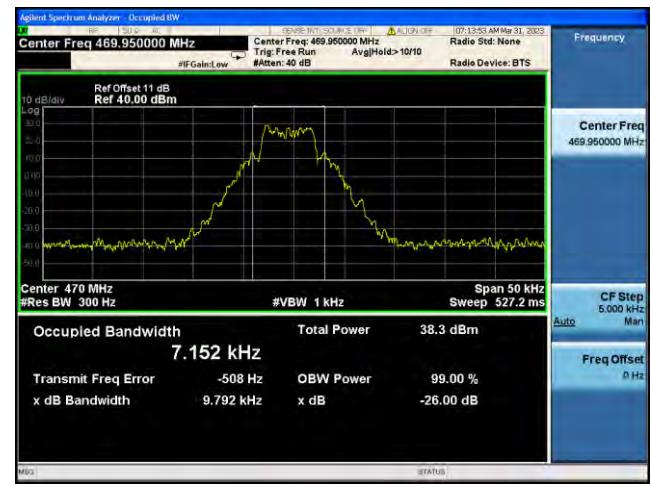
Low: 410.050MHz



Mid: 440.000MHz

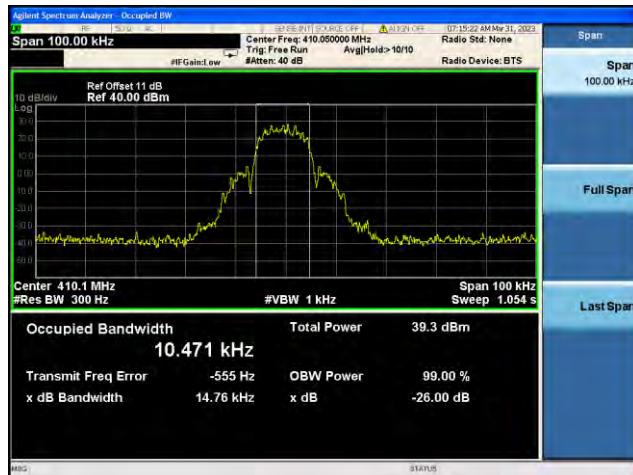


High: 470.000MHz

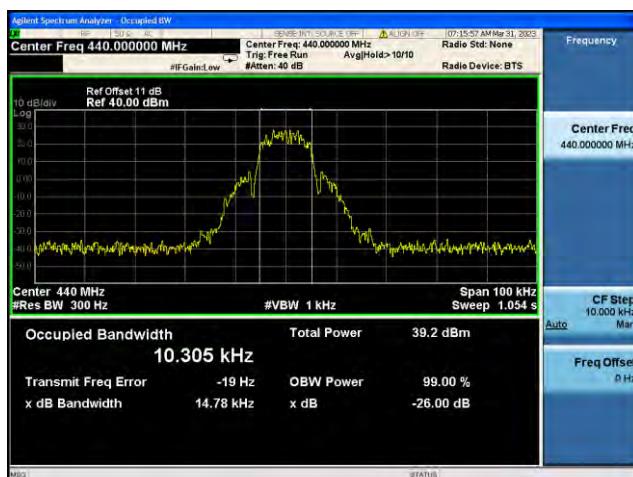


4-FSK 25KHz Channel Spacing: Occupied Bandwidth

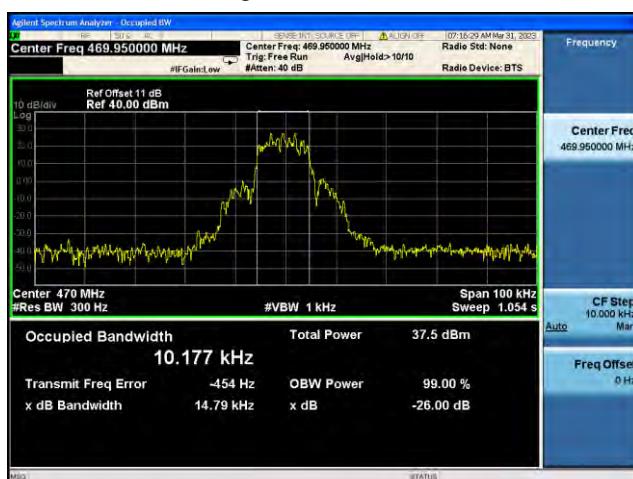
Low: 410.050MHz



Mid: 440.000MHz

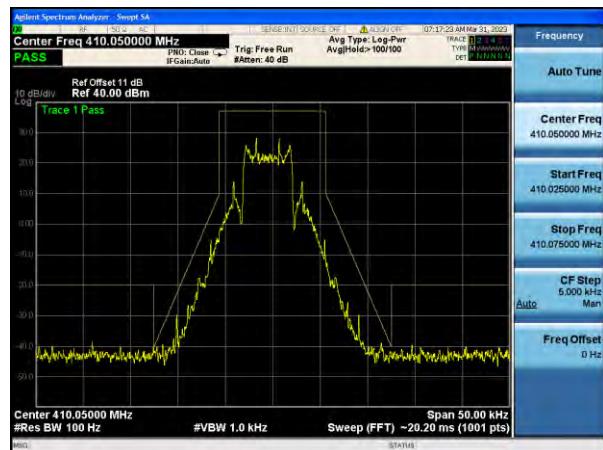


High: 469.850MHz

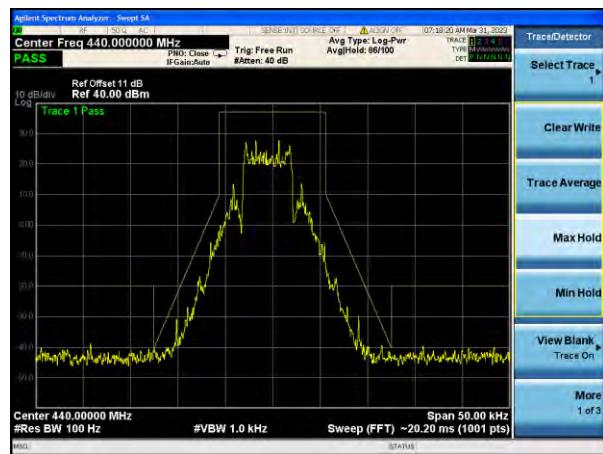


4-FSK 12.5KHz Channel Spacing: Emission Mask

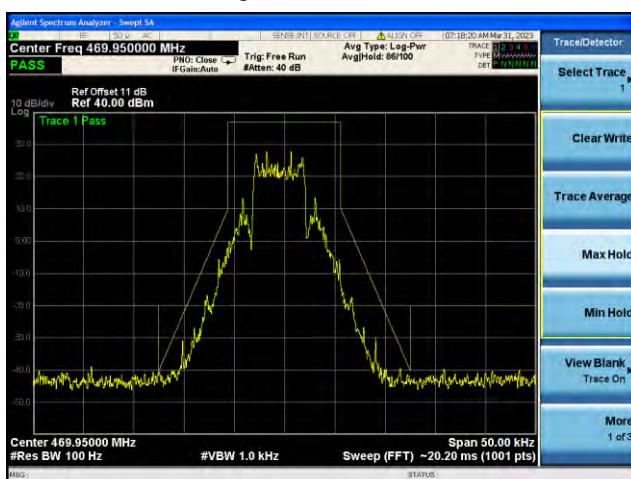
Low: 410.050MHz



Mid: 440.000MHz

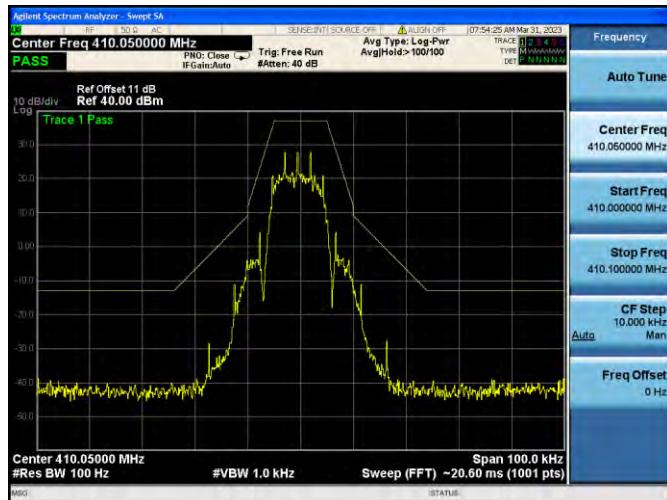


High: 469.950MHz

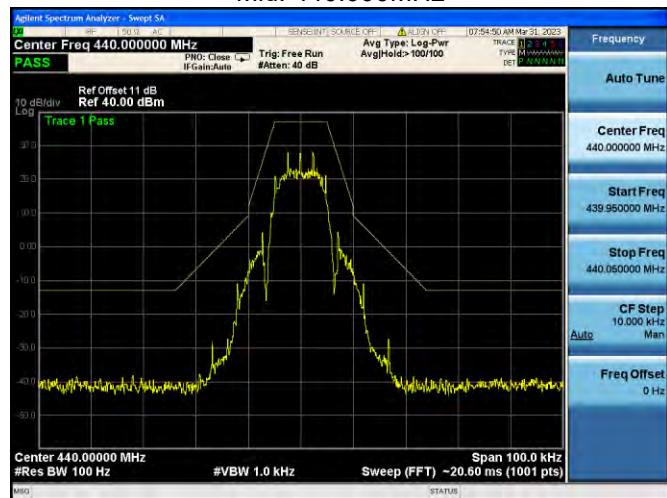


4-FSK 25KHz Channel Spacing: Emission Mask

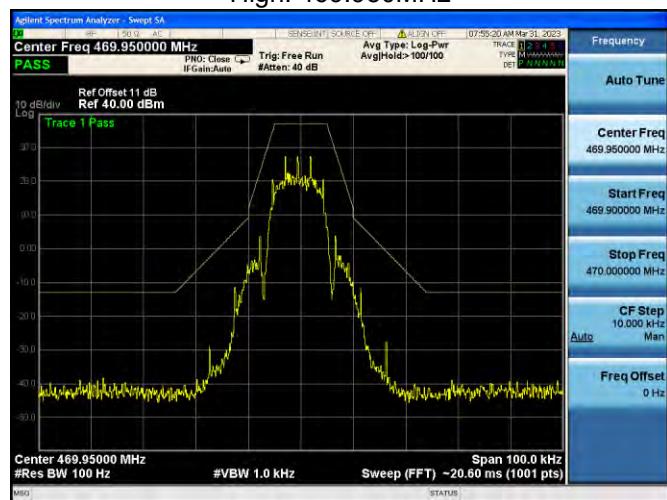
Low: 410.050MHz



Mid: 440.000MHz



High: 469.950MHz



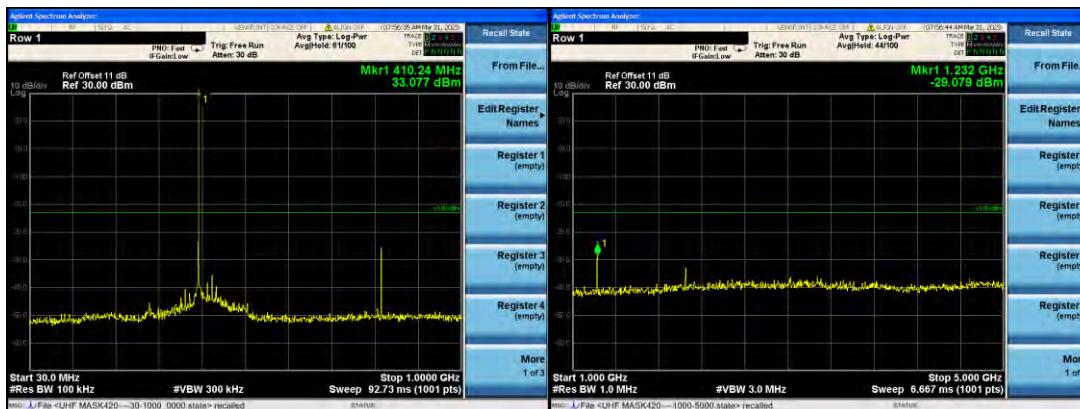
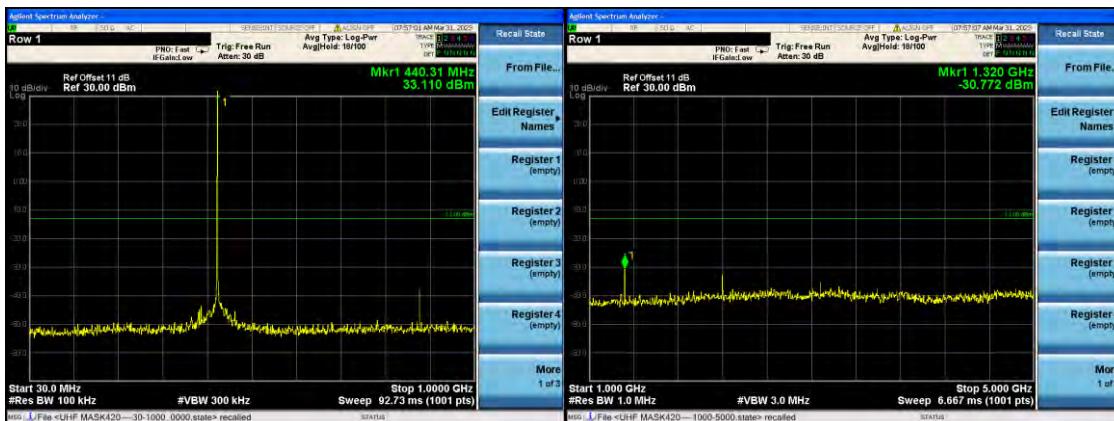
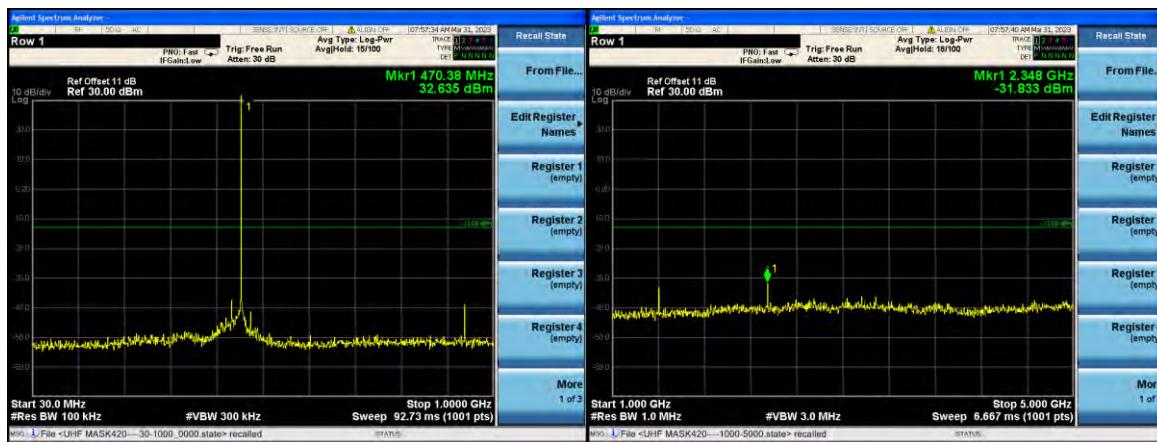
3.3. Spurious Emissions(conducted)

3.3.1. Test Specification

| | |
|--------------------------|---|
| Test Requirement: | FCC Part 90.210, RSS-119(5.8) |
| Test Setup: |  <p>Spectrum Analyzer EUT</p> |
| Test Limit: | <p>Modulation Type: 4-FSK</p> <p>FCC Part 22.359, 74.462, 80.211 and 90.210 and RSS Gen, RSS 119 Issue 12:</p> <p>For 6.25 bandwidth:</p> <p>On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 6.25 kHz at least:</p> $55 + 10 \log (P_{\text{watts}}) = 55 + 10 \log (1.0) = 55.00 \text{ dB}$ <p>Calculation: Limit (dBm) = $EL - 55 - 10 \log_{10} (TP)$</p> <p>Notes: EL is the emission level of the Output Power expressed in dBm,</p> <p>In this application, the EL is 30 dBm for High rated power.</p> <p>High: Limit (dBm) = $30 - 55 - 10 \log (3.0) = -25 \text{ dBm}$</p> <p>For 12.5 bandwidth:</p> <p>On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 12.5 kHz at least:</p> $50 + 10 \log (P_{\text{watts}}) = 50 + 10 \log (1.0) = 50.00 \text{ dB}$ <p>Note: In general, the worst case attenuation requirement shown above was applied.</p> <p>Calculation: Limit (dBm) = $EL - 50 - 10 \log_{10} (TP)$</p> <p>Notes: EL is the emission level of the Output Power expressed in dBm,</p> <p>In this application, the EL is 30 dBm for High rated power.</p> <p>Limit (dBm) = $30.00 - 50 - 10 \log (1.0) = -20 \text{ dBm}$</p> <p>For 25 kHz bandwidth:</p> <p>On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 62.5 kHz at least:</p> $43 + 10 \log (P_{\text{watts}}) = 43 + 10 \log (1.0) = 43.00 \text{ dB}$ <p>Note: In general, the worst case attenuation requirement shown above was applied.</p> <p>Calculation: Limit (dBm) = $EL - 43 - 10 \log_{10} (TP)$</p> <p>In this application, the EL is 30 dBm for High rated power.</p> <p>Limit (dBm) = $30.00 - 43 - 10 \log (1.0) = -13 \text{ dBm}$</p> <p>Note: 1. In general, the worst case attenuation requirement shown above was applied.</p> <p>For emission inside from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of channel spacing, emission mask limit should be compliant.</p> <p>2. The measurement frequency range from 9 KHz to 5 GHz.</p> <p>3. *** means that the emission level is too low to be measured or at least 20 dB down than the limit.</p> <p>4. ERP for below 1GHz and EIRP above 1GHz.</p> |

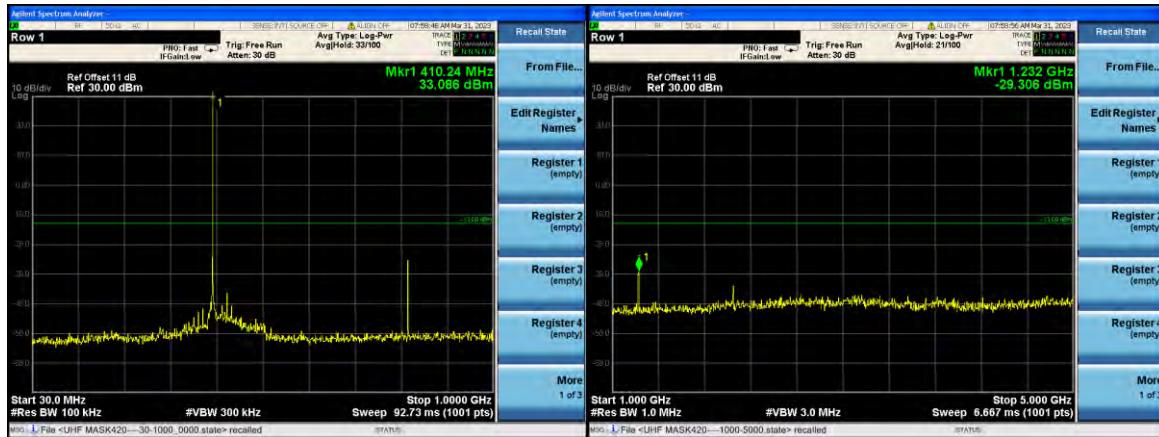
Test Result:**PASS****3.3.2. Test data**

Test plots as follows:

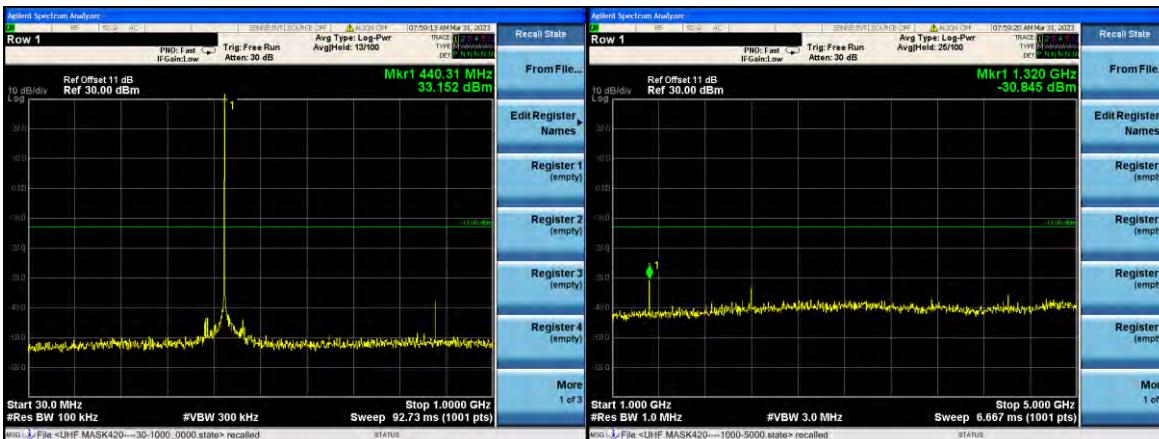
4-FSK 12.5KHz Channel Spacing:**Low: 410.050MHz****Mid: 440.000MHz****High: 469.950MHz**

4-FSK 25KHz Channel Spacing:

Low: 410.050MHz



Mid: 440.000MHz

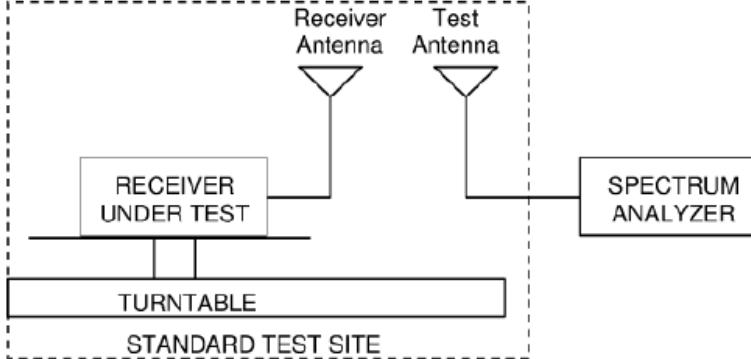


High: 469.950MHz



3.4. Radiated Spurious Emission

3.4.1. Test Specification

| Test Requirement: | FCC Part 90.210, RSS-119(5.8) | | | | | | | | | | | | | | | |
|------------------------------|---|-----------|-----|-----|--------------|-------|------|---------------|------|-------|------------|--------|--------|------------|------|------|
| Test Method: | ANSI C63.26 | | | | | | | | | | | | | | | |
| Measurement Distance: | 3 m | | | | | | | | | | | | | | | |
| Antenna Polarization: | Horizontal & Vertical | | | | | | | | | | | | | | | |
| Operation mode: | Refer to item 4.1 | | | | | | | | | | | | | | | |
| Receiver Setup: | <table border="1"> <thead> <tr> <th>Frequency</th> <th>RBW</th> <th>VBW</th> </tr> </thead> <tbody> <tr> <td>9kHz- 150kHz</td> <td>200Hz</td> <td>1kHz</td> </tr> <tr> <td>150kHz- 30MHz</td> <td>9kHz</td> <td>30kHz</td> </tr> <tr> <td>30MHz-1GHz</td> <td>100KHz</td> <td>300KHz</td> </tr> <tr> <td>Above 1GHz</td> <td>1MHz</td> <td>3MHz</td> </tr> </tbody> </table> | Frequency | RBW | VBW | 9kHz- 150kHz | 200Hz | 1kHz | 150kHz- 30MHz | 9kHz | 30kHz | 30MHz-1GHz | 100KHz | 300KHz | Above 1GHz | 1MHz | 3MHz |
| Frequency | RBW | VBW | | | | | | | | | | | | | | |
| 9kHz- 150kHz | 200Hz | 1kHz | | | | | | | | | | | | | | |
| 150kHz- 30MHz | 9kHz | 30kHz | | | | | | | | | | | | | | |
| 30MHz-1GHz | 100KHz | 300KHz | | | | | | | | | | | | | | |
| Above 1GHz | 1MHz | 3MHz | | | | | | | | | | | | | | |
| Limit: | <p>For equipment using 25 kHz channel spacing, on any frequency removed from the center of the authorized bandwidth by more than 250 percent of the authorized bandwidth: At least $43 + 10\log(P)$ dB.</p> <p>For equipment using 12.5 kHz channel spacing, on any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 12.5 kHz: At least $50 + 10 \log(P)$ dB or 70 dB, whichever is the lesser attenuation.</p> | | | | | | | | | | | | | | | |
| Test setup: |  | | | | | | | | | | | | | | | |
| Test Procedure: | <p>The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.</p> <p>The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.</p> <p>The frequency range up to teeth harmonic of the fundamental frequency was investigated.</p> <p>Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a</p> | | | | | | | | | | | | | | | |

| | |
|----------------------|---|
| | <p>non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution. Spurious emissions in dB =10, 1g (TXpwr in Watts/0.001)-the absolute level Spurious attenuation limit in dB =50+10 Log10 (power out in Watts) for EUT with a 12.5 kHz and 25KHz channel bandwidth.</p> |
| Test results: | PASS |

3.4.2. Test Data

4-FSK:

Test Mode: Low: 410.050MHz, Channel Spacing 12.5KHz

| Frequency (MHz) | Reading level (dBm) | Antenna Polarization | Cable loss (dB) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|---------------------|----------------------|-----------------|----------------|----------------------|-------------|-------------|
| 150.753 | -93.90 | V | 0.24 | 31.35 | -62.79 | -20 | -42.79 |
| 359.807 | -90.79 | V | 0.26 | 31.34 | -59.71 | -20 | -39.71 |
| 671.423 | -93.21 | V | 0.42 | 31.24 | -62.39 | -20 | -42.39 |
| 862.653 | -93.76 | V | 0.58 | 30.71 | -63.63 | -20 | -43.63 |
| 1263.815 | -78.84 | V | 1.23 | 26.38 | -53.69 | -20 | -33.69 |
| 3863.073 | -77.93 | V | 1.68 | 25.47 | -54.14 | -20 | -34.14 |
| 287.133 | -94.96 | H | 0.43 | 31.24 | -64.15 | -20 | -44.15 |
| 400.204 | -95.50 | H | 0.45 | 30.68 | -65.27 | -20 | -45.27 |
| 478.017 | -94.21 | H | 0.64 | 30.85 | -64.00 | -20 | -44.00 |
| 676.575 | -97.66 | H | 0.79 | 31.12 | -67.33 | -20 | -47.33 |
| 1369.176 | -82.52 | H | 1.29 | 26.12 | -57.69 | -20 | -37.69 |
| 3258.122 | -77.40 | H | 1.62 | 25.41 | -53.61 | -20 | -33.61 |

Test Mode: Mid: 440.000MHz, Channel Spacing 12.5KHz

| Frequency (MHz) | Reading level (dBm) | Antenna Polarization | Cable loss (dB) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|---------------------|----------------------|-----------------|----------------|----------------------|-------------|-------------|
| 157.911 | -93.89 | V | 0.24 | 31.35 | -62.78 | -20 | -42.78 |
| 362.588 | -90.21 | V | 0.26 | 31.34 | -59.13 | -20 | -39.13 |
| 669.972 | -92.94 | V | 0.42 | 31.24 | -62.12 | -20 | -42.12 |
| 862.586 | -93.40 | V | 0.58 | 30.71 | -63.27 | -20 | -43.27 |
| 1263.083 | -78.31 | V | 1.23 | 26.38 | -53.16 | -20 | -33.16 |
| 3857.439 | -78.16 | V | 1.68 | 25.47 | -54.37 | -20 | -34.37 |
| 292.620 | -95.06 | H | 0.43 | 31.24 | -64.25 | -20 | -44.25 |
| 397.340 | -95.71 | H | 0.45 | 30.68 | -65.48 | -20 | -45.48 |
| 477.536 | -94.73 | H | 0.64 | 30.85 | -64.52 | -20 | -44.52 |
| 682.949 | -97.25 | H | 0.79 | 31.12 | -66.92 | -20 | -46.92 |
| 1366.759 | -81.86 | H | 1.29 | 26.12 | -57.03 | -20 | -37.03 |
| 3262.627 | -77.77 | H | 1.62 | 25.41 | -53.98 | -20 | -33.98 |

Test Mode: High: 469.950MHz, Channel Spacing 12.5KHz

| Frequency (MHz) | Reading level (dBm) | Antenna Polarization | Cable loss (dB) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|---------------------|----------------------|-----------------|----------------|----------------------|-------------|-------------|
| 149.819 | -93.75 | V | 0.24 | 31.35 | -62.64 | -20 | -42.64 |
| 366.378 | -90.50 | V | 0.26 | 31.34 | -59.42 | -20 | -39.42 |
| 671.133 | -93.44 | V | 0.42 | 31.24 | -62.62 | -20 | -42.62 |
| 866.455 | -93.79 | V | 0.58 | 30.71 | -63.66 | -20 | -43.66 |
| 1259.762 | -78.51 | V | 1.23 | 26.38 | -53.36 | -20 | -33.36 |
| 3860.704 | -78.22 | V | 1.68 | 25.47 | -54.43 | -20 | -34.43 |
| 292.127 | -94.75 | H | 0.43 | 31.24 | -63.94 | -20 | -43.94 |
| 407.252 | -96.08 | H | 0.45 | 30.68 | -65.85 | -20 | -45.85 |
| 476.193 | -94.81 | H | 0.64 | 30.85 | -64.60 | -20 | -44.60 |
| 679.120 | -97.34 | H | 0.79 | 31.12 | -67.01 | -20 | -47.01 |
| 1371.936 | -82.52 | H | 1.29 | 26.12 | -57.69 | -20 | -37.69 |
| 3265.395 | -77.56 | H | 1.62 | 25.41 | -53.77 | -20 | -33.77 |

Test Mode: Low: 410.050MHz, Channel Spacing 25KHz

| Frequency (MHz) | Reading level (dBm) | Antenna Polarization | Cable loss (dB) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|---------------------|----------------------|-----------------|----------------|----------------------|-------------|-------------|
| 146.884 | -94.42 | V | 0.24 | 31.35 | -63.31 | -20 | -43.31 |
| 361.661 | -90.45 | V | 0.26 | 31.34 | -59.37 | -20 | -39.37 |
| 672.403 | -93.43 | V | 0.42 | 31.24 | -62.61 | -20 | -42.61 |
| 869.253 | -93.74 | V | 0.58 | 30.71 | -63.61 | -20 | -43.61 |
| 1260.906 | -78.75 | V | 1.23 | 26.38 | -53.60 | -20 | -33.60 |
| 3859.099 | -78.46 | V | 1.68 | 25.47 | -54.67 | -20 | -34.67 |
| 289.522 | -95.03 | H | 0.43 | 31.24 | -64.22 | -20 | -44.22 |
| 400.914 | -95.70 | H | 0.45 | 30.68 | -65.47 | -20 | -45.47 |
| 476.804 | -94.43 | H | 0.64 | 30.85 | -64.22 | -20 | -44.22 |
| 681.363 | -97.37 | H | 0.79 | 31.12 | -67.04 | -20 | -47.04 |
| 1370.675 | -81.97 | H | 1.29 | 26.12 | -57.14 | -20 | -37.14 |
| 3261.429 | -77.93 | H | 1.62 | 25.41 | -54.14 | -20 | -34.14 |

Test Mode; Mid: 440.000MHz, Channel Spacing 25KHz

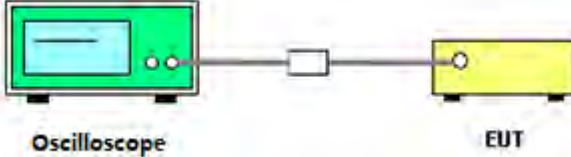
| Frequency (MHz) | Reading level (dBm) | Antenna Polarization | Cable loss (dB) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|---------------------|----------------------|-----------------|----------------|----------------------|-------------|-------------|
| 157.631 | -94.40 | V | 0.24 | 31.35 | -63.29 | -20 | -43.29 |
| 364.164 | -90.79 | V | 0.26 | 31.34 | -59.71 | -20 | -39.71 |
| 672.658 | -92.84 | V | 0.42 | 31.24 | -62.02 | -20 | -42.02 |
| 857.656 | -93.85 | V | 0.58 | 30.71 | -63.72 | -20 | -43.72 |
| 1261.789 | -78.26 | V | 1.23 | 26.38 | -53.11 | -20 | -33.11 |
| 3860.792 | -78.54 | V | 1.68 | 25.47 | -54.75 | -20 | -34.75 |
| 286.101 | -95.19 | H | 0.43 | 31.24 | -64.38 | -20 | -44.38 |
| 404.305 | -95.64 | H | 0.45 | 30.68 | -65.41 | -20 | -45.41 |
| 472.706 | -94.65 | H | 0.64 | 30.85 | -64.44 | -20 | -44.44 |
| 684.044 | -97.44 | H | 0.79 | 31.12 | -67.11 | -20 | -47.11 |
| 1372.293 | -82.31 | H | 1.29 | 26.12 | -57.48 | -20 | -37.48 |
| 3261.991 | -77.44 | H | 1.62 | 25.41 | -53.65 | -20 | -33.65 |

Test Mode: High: 469.950MHz, Channel Spacing 25KHz

| Frequency (MHz) | Reading level (dBm) | Antenna Polarization | Cable loss (dB) | Ant.Gain (dBi) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|---------------------|----------------------|-----------------|----------------|----------------------|-------------|-------------|
| 150.444 | -94.03 | V | 0.24 | 31.35 | -62.92 | -20 | -42.92 |
| 360.103 | -90.36 | V | 0.26 | 31.34 | -59.28 | -20 | -39.28 |
| 671.514 | -93.08 | V | 0.42 | 31.24 | -62.26 | -20 | -42.26 |
| 863.778 | -93.56 | V | 0.58 | 30.71 | -63.43 | -20 | -43.43 |
| 1256.913 | -78.54 | V | 1.23 | 26.38 | -53.39 | -20 | -33.39 |
| 3854.891 | -78.55 | V | 1.68 | 25.47 | -54.76 | -20 | -34.76 |
| 288.493 | -95.34 | H | 0.43 | 31.24 | -64.53 | -20 | -44.53 |
| 398.954 | -95.53 | H | 0.45 | 30.68 | -65.30 | -20 | -45.30 |
| 474.968 | -94.81 | H | 0.64 | 30.85 | -64.60 | -20 | -44.60 |
| 681.111 | -97.37 | H | 0.79 | 31.12 | -67.04 | -20 | -47.04 |
| 1372.828 | -82.53 | H | 1.29 | 26.12 | -57.70 | -20 | -37.70 |
| 3265.247 | -77.96 | H | 1.62 | 25.41 | -54.17 | -20 | -34.17 |

3.5. Transient Frequency Behavior

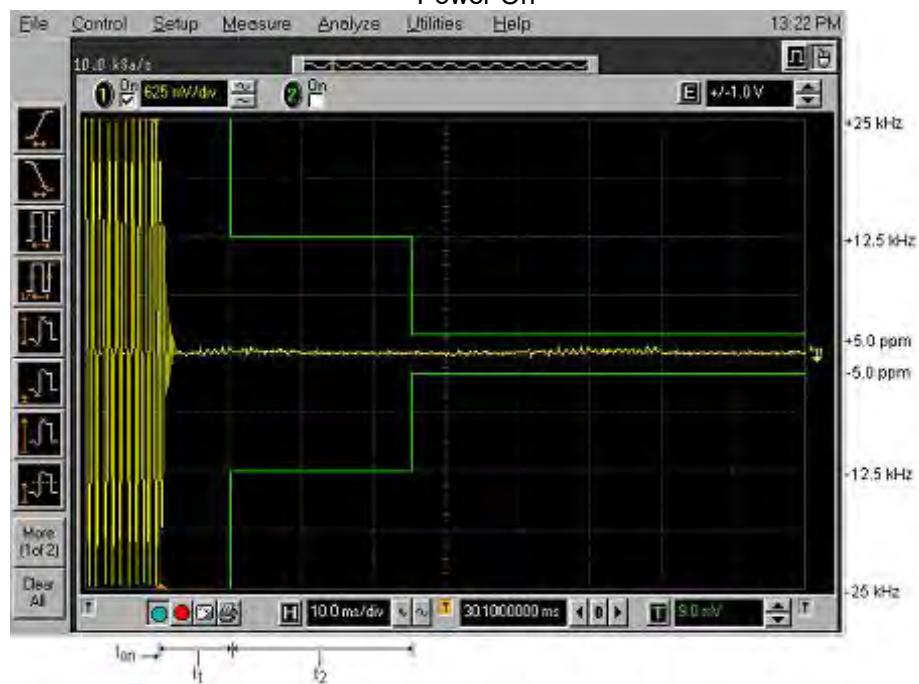
3.5.1. Test Specification

| Test Requirement: | FCC Part 90.214, RSS-119(5.9) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|------------------------------------|-------------------------------|---------------|--|-------------------------|-----------------------------|------------------------------------|-------------------------------|--|---------------|---------------|----|-------|----------|---|----|-------|------------|----|----|-------|----------|---|----|------|-------|------------|---|----|-------|------------|----|----|-------|------------|---|----|------|-------|------------|---|----|-------|-------------|----|----|-------|------------|---|----|
| Test Setup: |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Limit | <table border="1"> <thead> <tr> <th rowspan="2">Channel Bandwidth (kHz)</th> <th rowspan="2">Time Intervals (Notes 1, 2)</th> <th rowspan="2">Maximum Frequency Difference (kHz)</th> <th colspan="2">Transient Duration Limit (ms)</th> </tr> <tr> <th>138.1-174 MHz</th> <th>406.1-512 MHz</th> </tr> </thead> <tbody> <tr> <td rowspan="3">25</td> <td>t_1</td> <td>± 25</td> <td>5</td> <td>10</td> </tr> <tr> <td>t_2</td> <td>± 12.5</td> <td>20</td> <td>25</td> </tr> <tr> <td>t_3</td> <td>± 25</td> <td>5</td> <td>10</td> </tr> <tr> <td rowspan="3">12.5</td> <td>t_1</td> <td>± 12.5</td> <td>5</td> <td>10</td> </tr> <tr> <td>t_2</td> <td>± 6.25</td> <td>20</td> <td>25</td> </tr> <tr> <td>t_3</td> <td>± 12.5</td> <td>5</td> <td>10</td> </tr> <tr> <td rowspan="3">6.25</td> <td>t_1</td> <td>± 6.25</td> <td>5</td> <td>10</td> </tr> <tr> <td>t_2</td> <td>± 3.125</td> <td>20</td> <td>25</td> </tr> <tr> <td>t_3</td> <td>± 6.25</td> <td>5</td> <td>10</td> </tr> </tbody> </table> | | | | | Channel Bandwidth (kHz) | Time Intervals (Notes 1, 2) | Maximum Frequency Difference (kHz) | Transient Duration Limit (ms) | | 138.1-174 MHz | 406.1-512 MHz | 25 | t_1 | ± 25 | 5 | 10 | t_2 | ± 12.5 | 20 | 25 | t_3 | ± 25 | 5 | 10 | 12.5 | t_1 | ± 12.5 | 5 | 10 | t_2 | ± 6.25 | 20 | 25 | t_3 | ± 12.5 | 5 | 10 | 6.25 | t_1 | ± 6.25 | 5 | 10 | t_2 | ± 3.125 | 20 | 25 | t_3 | ± 6.25 | 5 | 10 |
| Channel Bandwidth (kHz) | Time Intervals (Notes 1, 2) | Maximum Frequency Difference (kHz) | Transient Duration Limit (ms) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 138.1-174 MHz | 406.1-512 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | t_1 | ± 25 | 5 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | t_2 | ± 12.5 | 20 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | t_3 | ± 25 | 5 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12.5 | t_1 | ± 12.5 | 5 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | t_2 | ± 6.25 | 20 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | t_3 | ± 12.5 | 5 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.25 | t_1 | ± 6.25 | 5 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | t_2 | ± 3.125 | 20 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | t_3 | ± 6.25 | 5 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Procedure: | <p>The EUT was set in the climate chamber and connected to an external DC power supply and AC power supply. The RF output was directly connected to Oscilloscope. The coupling loss of the additional cables was recorded and taken in account for all the measurements. The result was recorded.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Result: | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

3.5.2. Test data

Test Plots for channel spacing 25KHz, EUT power setting: Maximum.

Power On



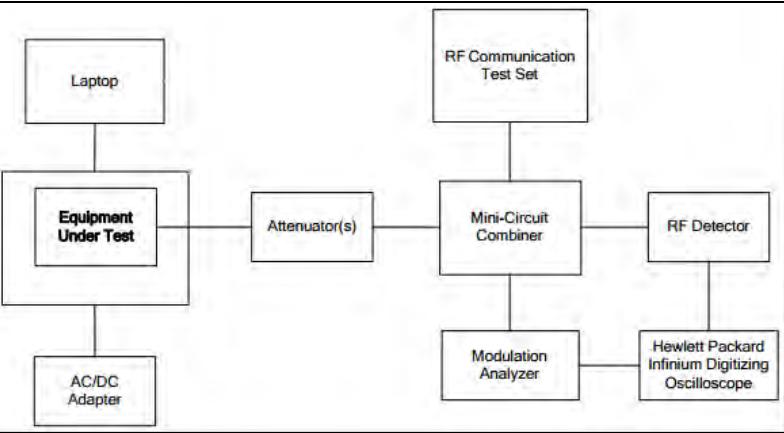
Power Off



Remark: Only list the worst data for channel spacing 25KHz, modulation 4-FSK.

3.6. Behavior Frequency Stability

3.6.1. Test Specification

| | |
|--------------------------|---|
| Test Requirement: | FCC Part 90.213, RSS-119(5.3) |
| Test Method: | ANSI C63.26, RSS-Gen |
| Test Setup: |  <pre> graph TD Laptop[Laptop] --- EUT[Equipment Under Test] EUT --- ACDC[AC/DC Adapter] EUT --- Attenuator[Attenuator(s)] Attenuator --- MiniCircuit[Mini-Circuit Combiner] MiniCircuit --- RFDetector[RF Detector] RFDetector --- ModulationAnalyzer[Modulation Analyzer] ModulationAnalyzer --- Oscilloscope[Hewlett Packard Infinium Digitizing Oscilloscope] RFCommunication[RF Communication Test Set] --- MiniCircuit </pre> |
| Test Procedure: | <p>Method of Measurement: After temperature stabilization (approx. 20 min for each stage), the frequency for the lower, the middle and the highest frequency range was recorded. For Frequency stability Vs. Voltage the EUT was connected to a DC power supply or AC power supply and the voltage was adjusted in the required ranges.</p> |
| Test Result: | PASS |

3.6.2. Test data

| Conclusion: PASS | | | |
|--|-------------|----------------------|-----------------------|
| Mode | Voltage (V) | Frequency error (Hz) | frequency error (ppm) |
| Middle Channel 12.5KHz Channel Spacing | 3.6 | 12 | 0.0010 |
| | 3.5 | 16 | 0.0189 |
| | 3.4 | 16 | 0.0185 |
| | 3.3 | 14 | 0.0163 |
| | 3.2 | 9 | 0.0108 |
| | 3.1 | 11 | 0.0128 |
| Limit | 2.5ppm | | |
| Middle Channel 25KHz Channel Spacing | 3.6 | 18 | 0.0014 |
| | 3.5 | 14 | 0.0163 |
| | 3.4 | 10 | 0.0114 |
| | 3.3 | 17 | 0.0202 |
| | 3.2 | 9 | 0.0109 |
| | 3.1 | 18 | 0.0210 |
| Limit | 5ppm | | |

| Mode | Temperature (°C) | Frequency error (Hz) | frequency error (ppm) |
|--|---------------------|-------------------------|--------------------------|
| Middle Channel 12.5KHz Channel Spacing | -20 | 15 | 0.0012 |
| | -10 | 19 | 0.0229 |
| | 0 | 14 | 0.0164 |
| | 10 | 13 | 0.0158 |
| | 20 | 11 | 0.0136 |
| | 30 | 17 | 0.0198 |
| | 40 | 16 | 0.0194 |
| | 50 | 13 | 0.0152 |
| Limit | | 2.5ppm | |
| Middle Channel 25KHz Channel Spacing | -20 | 17 | 0.0013 |
| | -10 | 14 | 0.0169 |
| | 0 | 10 | 0.0122 |
| | 10 | 12 | 0.0148 |
| | 20 | 12 | 0.0139 |
| | 30 | 11 | 0.0130 |
| | 40 | 17 | 0.0204 |
| | 50 | 17 | 0.0199 |
| Limit | | 5ppm | |

3.7. Modulation Characteristic

| | |
|--------------------------|--|
| Test Requirement: | FCC Part 90.207 |
| Test Result: | According to FCC § 2.1047(d), Part 22, 74, 90 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented. |

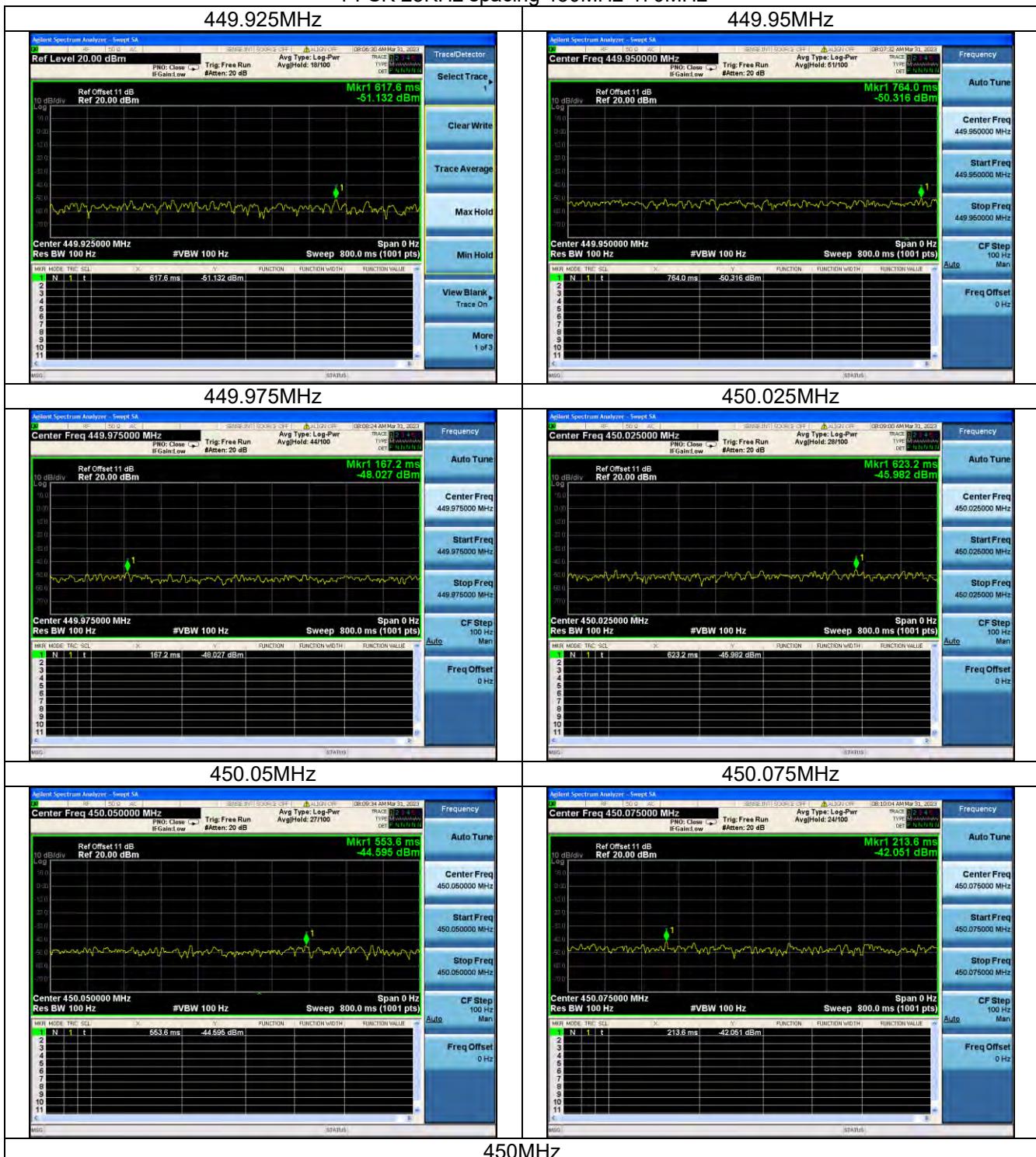
3.8. Adjacent channel power

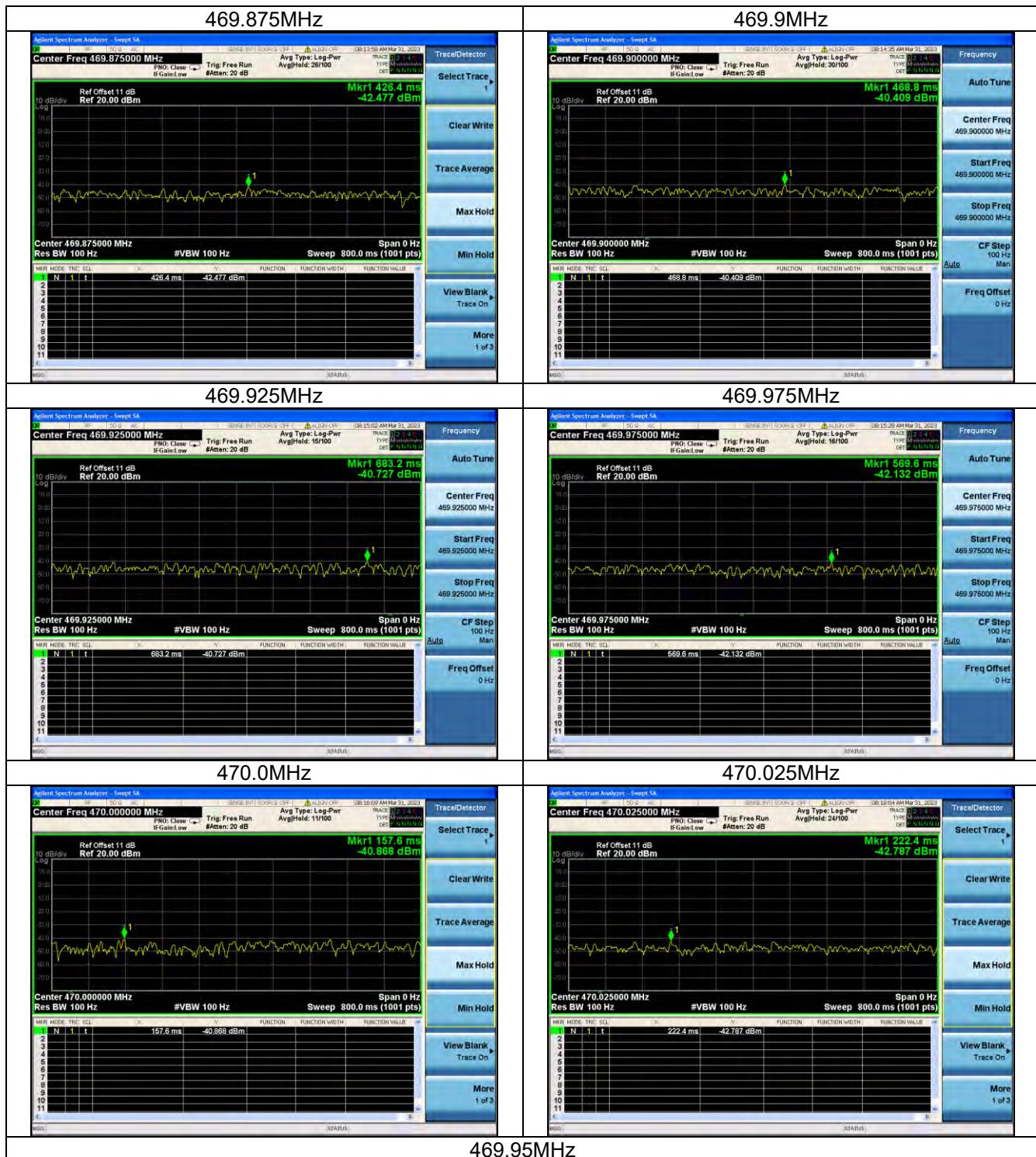
| Test Requirement: | FCC Part 90.221 | | | | | | | | | | | | | | |
|--------------------------|--|--|--|------------------|---|--|--------------|---------|---------|--------------|---------|---------|--------------|---------|---------|
| Test Setup: |  <p>Spectrum Analyzer EUT</p> | | | | | | | | | | | | | | |
| Test Limit: | <p>Maximum adjacent power levels for frequencies in the 450–470 MHz band, no need compliance with below -36dBm:</p> <table border="1"> <thead> <tr> <th>Frequency offset</th> <th>Maximum ACP (dBc) for devices 1 watt and less</th> <th>Maximum ACP (dBc) for devices above 1 watt</th> </tr> </thead> <tbody> <tr> <td>25 kHz</td> <td>-55 dBc</td> <td>-60 dBc</td> </tr> <tr> <td>50 kHz</td> <td>-70 dBc</td> <td>-70 dBc</td> </tr> <tr> <td>75 kHz</td> <td>-70 dBc</td> <td>-70 dBc</td> </tr> </tbody> </table> | | | Frequency offset | Maximum ACP (dBc) for devices 1 watt and less | Maximum ACP (dBc) for devices above 1 watt | 25 kHz | -55 dBc | -60 dBc | 50 kHz | -70 dBc | -70 dBc | 75 kHz | -70 dBc | -70 dBc |
| Frequency offset | Maximum ACP (dBc) for devices 1 watt and less | Maximum ACP (dBc) for devices above 1 watt | | | | | | | | | | | | | |
| 25 kHz | -55 dBc | -60 dBc | | | | | | | | | | | | | |
| 50 kHz | -70 dBc | -70 dBc | | | | | | | | | | | | | |
| 75 kHz | -70 dBc | -70 dBc | | | | | | | | | | | | | |
| Test method: | <p>The resolution bandwidth of the spectrum analyzer was set at 100 Hz and the spectrum was recorded in the Frequency band 0Kz from the wanted frequency</p> | | | | | | | | | | | | | | |
| Test result: | Pass. | | | | | | | | | | | | | | |

4-FSK 25KHz spacing 450MHz-470MHz

| Carrier frequency (MHz) | Test Frequency (MHz) | Test Value (dBm) | Limit (dBm) | Result |
|-------------------------|----------------------|------------------|-------------|--------|
| 450.000 | 449.925 | -51.132 | 30-70=-40 | PASS |
| | 449.95 | -50.316 | 30-70=-40 | PASS |
| | 449.975 | -48.027 | 30-55=-25 | PASS |
| | 450.025 | -45.982 | 30-55=-25 | PASS |
| | 450.05 | -44.595 | 30-70=-40 | PASS |
| | 450.075 | -42.051 | 30-70=-40 | PASS |
| 469.950 | 469.875 | -42.477 | 30-70=-40 | PASS |
| | 469.900 | -40.409 | 30-70=-40 | PASS |
| | 469.925 | -40.727 | 30-55=-25 | PASS |
| | 469.975 | -42.132 | 30-55=-25 | PASS |
| | 470.000 | -40.868 | 30-70=-40 | PASS |
| | 470.025 | -42.787 | 30-70=-40 | PASS |

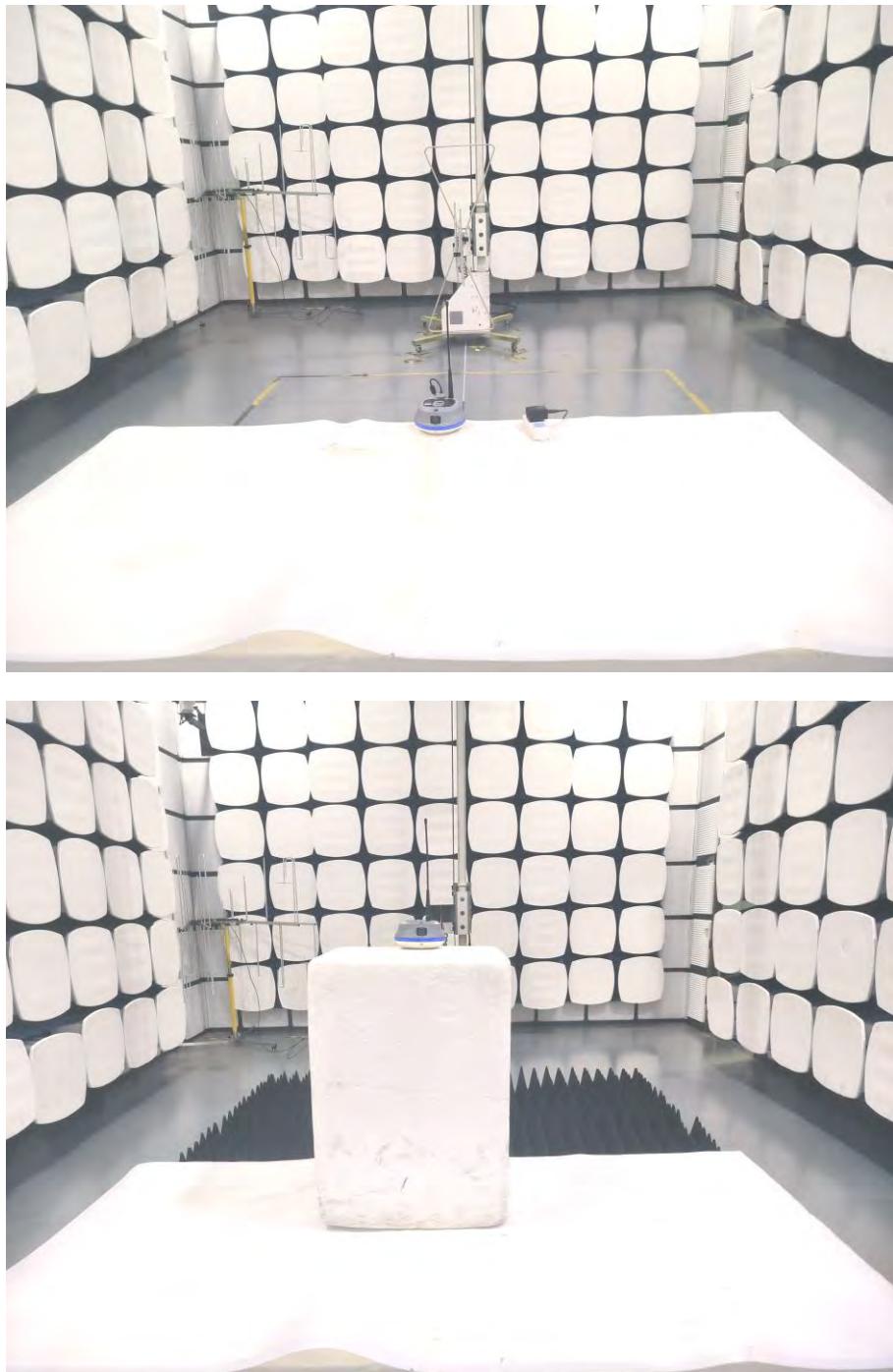
4-FSK 25KHz spacing 450MHz-470MHz





4. Test Setup Photo

4.1. Photos of Radiated emission



5. EUT Photo

Please refer to the report A2303056-C01-R01.

----- END OF REPORT-----