

FCC Part 90& Part 22 Rules Test Report

Report No.: AGC01284180603FE10

FCC ID : PH3DJ-MD5
PRODUCT DESIGNATION : VHF/UHF DUAL BAND TRANSCEIVER
BRAND NAME : ALINCO
MODEL NAME : DJ-MD5, DJ-MD5T, DJ-MD5TGP
CLIENT : Alinco Incorporated, Electronics Division
DATE OF ISSUE : Sep. 05, 2018
STANDARD(S) : FCC Part 90 Rules
: FCC Part 22 Rules
REPORT VERSION : V 1.3

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|----------------------|
| V1.0 | / | Jul. 20, 2018 | Invalid | Initial Release |
| V1.1 | 1st | Aug. 13, 2018 | Invalid | Update the comments. |
| V1.2 | 2st | Aug. 29, 2018 | Invalid | Update the comments. |
| V1.3 | 3rd | Sep. 05, 2018 | Valid | Update the comments. |

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VERIFICATION OF COMPLIANCE

| | |
|-------------------------------|--|
| Applicant: | Alinco Incorporated, Electronics Division |
| | Yodoyabashi Dai-Bldg 13F, 4-4-9 Koraibashi, Chuo-Ku, Osaka 541-0043, Japan |
| Manufacturer: | Alinco Incorporated, Electronics Division |
| | Yodoyabashi Dai-Bldg 13F, 4-4-9 Koraibashi, Chuo-Ku, Osaka 541-0043, Japan |
| Product Designation: | VHF/UHF DUAL BAND TRANSCEIVER |
| Brand Name: | ALINCO |
| Test Model | DJ-MD5 |
| Series Model | DJ-MD5T, DJ-MD5TGP |
| Difference description | All the same except for the model name. |
| Date of Test: | Jul. 14, 2018 to Jul. 20, 2018 |

WE HEREBY CERTIFY THAT:

The above equipment was tested by Shenzhen Attestation of Global Compliance Science & Technology Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA-603-E (2016). The sample tested as described in this report is in compliance with the FCC Rules Part 90 and FCC Rules Part 22 requirements

The test results of this report relate only to the tested sample identified in this report.

Tested by



Steven Zhou(Zhou Pengyun) Jul. 20, 2018

Reviewed by



Bart Xie(Xie Xiaobin) Sep. 05, 2018

Approved by



 Forrest Lei(Lei Yonggang)
 Authorized Officer Sep. 05, 2018

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1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

The EUT is a **VHF/UHF DUAL BAND TRANSCEIVER** designed for voice/data communication. It is designed by way of utilizing the FM/4FSK modulation achieves the system operating.

A major technical description of EUT is described as following:

| | |
|---------------------------|--|
| Communication Type | Voice / Data |
| Hardware Version | V1.00 |
| Software Version | V2.02 |
| Modulation | FM/4FSK |
| Emission Type | 11K0F3E, 7K60FXD, 7K60FXW |
| Emission Bandwidth | Analog:10.17KHz(5W-12.5 KHz),10.17KHz(2.5W-12.5 KHz) ---VHF Analog:10.17KHz(1W-12.5 KHz),10.17KHz(0.2W-12.5 KHz) ---VHF Digital: 9.755KHz(5W-12.5 KHz),9.473 KHz(2.5W-12.5 KHz) ---VHF 10.01KHz(1W-12.5 KHz),9.515KHz(0.2W-12.5 KHz) ---VHF Analog:10.17KHz(5W-12.5 KHz),10.17KHz(2.5W-12.5 KHz) ---UHF Analog:10.17KHz(1W-12.5 KHz),10.17KHz(0.2W-12.5 KHz) ---UHF Digital:9.367KHz(5W), 9.653KHz(2.5W) ---UHF 9.572KHz(1W), 9.664KHz(0.2W) ---UHF |
| Peak Frequency Deviation | 1.98KHz |
| Audio Frequency Response | 11.41 dB |
| Maximum Transmitter Power | Analog:36.88 dBm(5W-12.5 KHz)(Radiated Power), 33.89dBm (2.5W-12.5 KHz) ---VHF(Radiated Power) Analog:29.89 dBm(1W-12.5 KHz)(Radiated Power), 22.91dBm (Conducted Power) (0.2W-12.5 KHz) ---VHF Digital: 36.89 dBm(5W) (Radiated Power), 33.89dBm (2.5W) (Conducted Power) ---VHF Digital: 29.89 dBm(1W) (Conducted Power), 22.89dBm (0.2W) (Radiated Power)---VHF Analog:36.89 dBm(5W-12.5 KHz) (Conducted Power), 33.89dBm (2.5W-12.5 KHz) (Conducted Power) ---UHF Analog:29.89 dBm(1W-12.5 KHz) (Radiated Power), 22.89dBm (0.2W-12.5 KHz) (Conducted Power)---UHF Digital: 36.88 dBm(5W) (Conducted Power), 33.89dBm (2.5W) (Radiated Power)---UHF Digital: 29.89 dBm(1W) (Radiated Power) , - 22.89dBm (0.2W) (Radiated Power) ---UHF |

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| | | |
|---------------------------------------|--|---|
| Output power Modification | UHF/VHF:5W/2.5W/1W/0.2W (It was fixed by the manufacturer, any individual can't arbitrarily change it.) | |
| Data Rate | 9600bps/12.5KHz(Channel Spacing) | |
| Antenna Designation | Detachable | |
| Antenna Gain | 2.15 dBi | |
| Power Supply | DC 7.4V, 1700mAh (by battery) | |
| Adapter Parameter | INPUT: AC 100V-240V , 50/60Hz , 0.25A OUTPUT: DC 12V , 0.5A | |
| Limiting Voltage | DC 6V-8.51V | |
| Operation Frequency Range and Channel | Frequency Range: 136 MHz to 174 MHz (VHF) 400 MHz to 480 MHz (UHF) Channel Separation: 12.5KHz (Analog), 12.5KHz(Digital) | |
| | Bottom Channel: 136.025MHz Middle Channel:151.85MHz Middle Channel:155.025MHz Middle Channel:161.61MHz (Top)High Channel: 173.975MHz | Bottom Channel: 400.025MHz Middle Channel: 453.225MHz Middle Channel: 454.025MHz (Top)High Channel: 479.975MHz |
| Frequency Tolerance | 1.142ppm | |

| Frequency Range (MHz) | Rated Transmit Power(W)(Conducted) | Transmit Mode/Emission Designator |
|-----------------------|------------------------------------|---|
| 400-480 | 1W/5W | 11K0F3E(Analog Voice;NB) |
| 400-480 | 1W/5W | 7K60FXD/7K60FXW(9600Data/Digital Voice NB) |

| Frequency Range (MHz) | Rated Transmit Power(W)(Conducted) | Transmit Mode/Emission Designator |
|-----------------------|------------------------------------|---|
| 136-174 | 5W/2.5W/1W/0.2W | 11K0F3E(Analog Voice;NB) |
| 136-174 | 5W/2.5W/1W/0.2W | 7K60FXD/7K60FXW(9600Data/Digital Voice NB) |

| Channel No. (6. 25KHz) | Channel No. (12.5KHz) | 12.5KHz Channel Spaced 400MHz Band Plan(MHz) |
|------------------------|-----------------------|--|
| 1 | 1-2 | 400.025 |
| 2 | | |
| 3 | 3-4 | 440.025 |
| 4 | | |
| 5 | 5-6 | 479.975 |
| 6 | | |

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| Channel No. (6.25KHz) | Channel No. (12.5KHz) | 12.5KHz Channel Spaced 136MHz Band Plan(MHz) |
|--------------------------|--------------------------|---|
| 1 | 1-2 | 136.025 |
| 2 | | |
| 3 | 3-4 | 155.025 |
| 4 | | |
| 5 | 5-6 | 173.975 |
| 6 | | |

FCC Rules and Regulations Part 2.202: Necessary Bandwidth and Emission Bandwidth

Voice –FM Analog (12.5KHz)

Calculation:

Max modulation (M) in kHz : 3.0

Max deviation(D) in kHz:2.5

Constant factor (K): 1(assumed)

$B_n = 2XM + 2XDK = 11.0$ KHz

Emission designator: 11K0F3E

9600 Digital Voice/data (12.5KHz)

Calculation:

Data rate in bps(R)=9600

Deviation Peak deviation of carrier(D)=2359.585

Constant factor (K): 1 (default)

$B_n = 3.86D + 1.27RK = 3.86(2359.585) + 0.27(9600)(1) = 11.7$ KHz

Emission designator: 11K0FXD

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1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for FCC ID: PH3DJ-MD5, filing to comply with Part 2, Part 22, and Part 90 of the Federal Communication Commission rules.

1.3 TEST METHODOLOGY

The radiated emission testing was performed according to the procedures of ANSI/TIA-603-E (2016).

1.4 TEST FACILITY

| | |
|--|--|
| Test Site | Attestation of Global Compliance (Shenzhen) Co., Ltd |
| Location | 1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012 |
| NVLAP LAB CODE | 600153-0 |
| Designation Number | CN5028 |
| FCC Test Firm Registration Number | 682566 |
| Description | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0 |

1.5 SPECIAL ACCESSORIES

Not available for this EUT intended for grant.

1.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT EXERCISE

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 GENERAL TECHNICAL REQUIREMENTS

For FCC Part 90& Part 22 requirements:

- (1). Section 90.205 & 22.565: RF Output Power
- (2). Section 90.207: Modulation Characteristic
- (3). Section 90.209 & 22.359: Occupied Bandwidth
- (4). Section 90.210 & 22.359: Emission Mask
- (5). Section 90.213 & 22.355: Frequency Tolerance
- (6). Section 90.214: Transient Frequency Behavior

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2.4 CONFIGURATION OF TESTED SYSTEM

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

| Item | Equipment | Model No. | Identifier | Note |
|------|-------------------------------|-----------|-------------------|------|
| 1 | VHF/UHF DUAL BAND TRANSCEIVER | DJ-MD5 | FCC ID: PH3DJ-MD5 | EUT |

3. SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|------------------|------------------------------|-----------|
| §90.205 & 22.565 | Maximum Transmitter Power | Compliant |
| §90.207 | Modulation Characteristic | Compliant |
| §90.209& 22.359 | Occupied Bandwidth | Compliant |
| §90.210& 22.359 | Emission Mask | Compliant |
| §90.213& 22.355 | Frequency Tolerance | Compliant |
| §90.214 | Transient Frequency Behavior | Compliant |

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LIST OF EQUIPMENTS USED

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|------------------------------|-----------------|-------------|--------------|---------------|---------------|
| TEST RECEIVER | R&S | ESCI | 10096 | Jun. 12, 2018 | Jun. 11, 2019 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Dec.08, 2017 | Dec.07, 2018 |
| Horn antenna | SCHWARZBECK | BBHA 9170 | #768 | Sep.20, 2017 | Sep.19, 2018 |
| preamplifier | ChengYi | EMC184045SE | 980508 | Sep.15, 2017 | Sep.14, 2018 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | May 18, 2017 | May 17, 2019 |
| Broadband Preamplifier | SCHWARZBECK | BBV 9718 | 9718-205 | Jun. 12, 2018 | Jun. 11, 2019 |
| HORN ANTENNA | EM | EM-AH-10180 | / | Mar.01, 2018 | Feb.29, 2020 |
| SIGNAL GENERATOR | AGILENT | E4421B | 122501288 | Jun. 12, 2018 | Jun. 11, 2019 |
| SIGNAL GENERATOR | R&S | SMT03 | A0304261 | Jun. 12, 2018 | Jun. 11, 2019 |
| ANTENNA | SCHWARZBECK | VULB9168 | VULB9168-494 | Mar.01, 2018 | Feb.29, 2019 |
| ANTENNA | SCHWARZBECK | VULB9168 | D69250 | Sep.28, 2017 | Sep.27, 2018 |
| Modulation Domain Analyzer | HP | 53310A | 3121A02467 | May. 17, 2017 | May. 18, 2019 |
| Small environmental tester | ESPEC | SH-242 | -- | Mar.02, 2018 | Mar. 01, 2019 |
| RF Communication Test Set | HP | 8920B | -- | Jun. 20, 2017 | Jun. 19, 2018 |
| Loop Antenna | A.H.Systems,Inc | SAS-562B | -- | Mar.01, 2018 | Feb.28, 2019 |

Note: 8920B can generate audio modulation frequency.

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4. DESCRIPTION OF TEST MODES

RF TEST MODES

The EUT (VHF/UHF DUAL BAND TRANSCEIVER) has been tested under normal operating condition. (The top channel, the middle channel and the bottom channel) are chosen for testing at each channel separation.

Analog:

| No. | TEST MODES | CHANNEL SEPARATION |
|-----|----------------|--------------------|
| 1 | Low Channel | 12.5 KHz |
| 2 | Middle Channel | 12.5 KHz |
| 3 | High Channel | 12.5 KHz |

Digital:

| No. | TEST MODES | CHANNEL SEPARATION |
|-----|----------------|--------------------|
| 1 | Low Channel | 12.5 KHz |
| 2 | Middle Channel | 12.5 KHz |
| 3 | High Channel | 12.5 KHz |

Note: Only the result of the worst case was recorded in the report.

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5. FREQUENCY TOLERANCE

5.1 PROVISIONS APPLICABLE

- According to FCC §2.1055, § 22.355 and §90.213, the frequency stability shall be measured with variation of ambient temperature from -30°C to $+50^{\circ}\text{C}$ centigrade.
- According to FCC Part 2 Section 2.1055(d)(2), for battery powered equipment, the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point, which is specified by the manufacturer.
- According to FCC Part 90 Section 90.213, the frequency tolerance must be maintained within 0.00025% for 12.5 KHz channel separation and 0.0001% for 6.25 KHz channel separation.

5.2 MEASUREMENT PROCEDURE

5.2.1 Frequency stability versus environmental temperature

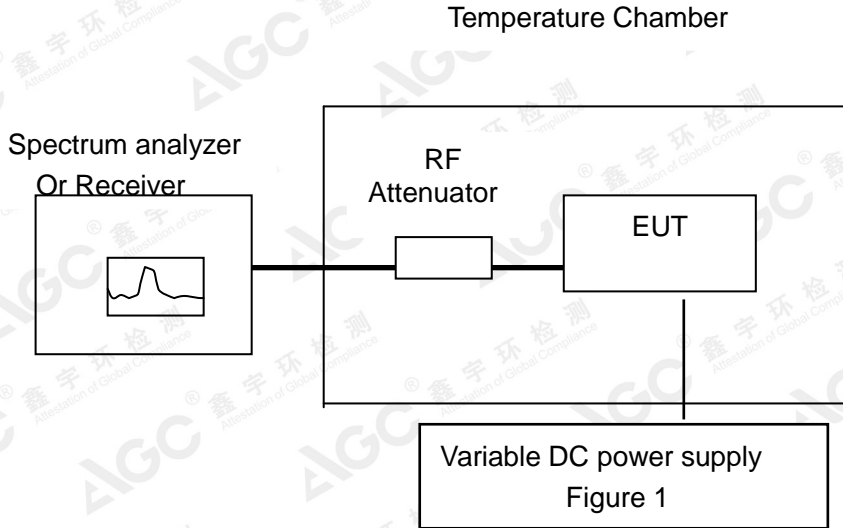
- Setup the configuration per figure 1 for frequencies measurement inside an environment chamber, Install new battery in the EUT.
- Turn on EUT and set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1KHz and Video Resolution Bandwidth to 1KHz and Frequency Span to 50KHz. Record this frequency as reference frequency.
- Set the temperature of chamber to 50°C . Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
- Repeat step 2 with a 10°C decreased per stage until the lowest temperature -30°C is measured, record all measured frequencies on each temperature step.

5.2.2 Frequency stability versus input voltage

- Setup the configuration per figure 1 for frequencies measured at temperature if it is within 15°C to 25°C . Otherwise, an environment chamber set for a temperature of 20°C shall be used. The EUT shall be powered by DC 7.4V.
- Set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1 KHz and Video Resolution Bandwidth to 1KHz. Record this frequency as reference frequency.
- Supply the EUT primary voltage at the operating end point which is specified by manufacturer and record the frequency.

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5.3 TEST SETUP BLOCK DIAGRAM



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TEST RESULT
VHF-Analog:

 (1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V)-**5W-12.5KHz**

| Environment Temperature(°C) | Power Supply (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|---------------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 7.40 V | 0.972 | 0.653 | 1.045 | 5 |
| 40 | DC 7.40 V | 0.952 | 0.566 | 0.752 | |
| 30 | DC 7.40 V | 0.823 | 0.991 | 0.908 | |
| 20 | DC 7.40 V | 1.061 | 0.587 | 0.602 | |
| 10 | DC 7.40 V | 0.528 | 0.867 | 0.684 | |
| 0 | DC 7.40 V | 0.729 | 0.945 | 0.671 | |
| -10 | DC 7.40 V | 1.051 | 0.867 | 0.839 | |
| -20 | DC 7.40 V | 1.073 | 0.574 | 0.821 | |
| -30 | DC 7.40 V | 0.584 | 0.565 | 0.725 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 7.40 V | 0.752 | 0.689 | 5 |
| 40 | DC 7.40 V | 0.344 | 0.803 | |
| 30 | DC 7.40 V | 0.987 | 0.590 | |
| 20 | DC 7.40 V | 0.783 | 0.575 | |
| 10 | DC 7.40 V | 0.640 | 0.785 | |
| 0 | DC 7.40 V | 0.664 | 0.519 | |
| -10 | DC 7.40 V | 0.952 | 0.753 | |
| -20 | DC 7.40 V | 0.346 | 0.437 | |
| -30 | DC 7.40 V | 0.666 | 0.538 | |
| Result | Pass | | | |

 (2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) -**5W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.29 | 0.749 | 0.726 | 0.762 | 5 |
| 40 | DC 6.29 | 1.054 | 0.991 | 1.033 | |
| 30 | DC 6.29 | 0.649 | 0.934 | 0.586 | |
| 20 | DC 6.29 | 0.783 | 0.974 | 0.849 | |
| 10 | DC 6.29 | 1.084 | 0.703 | 0.854 | |
| 0 | DC 6.29 | 0.956 | 0.700 | 0.532 | |
| -10 | DC 6.29 | 0.648 | 0.726 | 0.656 | |
| -20 | DC 6.29 | 0.808 | 1.063 | 0.950 | |
| -30 | DC 6.29 | 0.753 | 0.569 | 1.022 | |
| Result | Pass | | | | |

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| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.29 | 0.418 | 0.927 | 5 |
| 40 | DC 6.29 | 0.417 | 0.388 | |
| 30 | DC 6.29 | 0.696 | 0.633 | |
| 20 | DC 6.29 | 0.718 | 0.666 | |
| 10 | DC 6.29 | 0.705 | 0.451 | |
| 0 | DC 6.29 | 0.767 | 0.919 | |
| -10 | DC 6.29 | 0.597 | 0.511 | |
| -20 | DC 6.29 | 0.420 | 0.396 | |
| -30 | DC 6.29 | 0.839 | 0.574 | |
| Result | | Pass | | |

 (3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) **-5W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 8.51 | 0.852 | 0.726 | 0.677 | 5 |
| 40 | DC 8.51 | 1.047 | 0.676 | 0.675 | |
| 30 | DC 8.51 | 0.687 | 0.765 | 0.692 | |
| 20 | DC 8.51 | 0.559 | 0.712 | 0.667 | |
| 10 | DC 8.51 | 0.557 | 0.757 | 0.922 | |
| 0 | DC 8.51 | 0.557 | 0.649 | 1.023 | |
| -10 | DC 8.51 | 0.581 | 0.557 | 1.045 | |
| -20 | DC 8.51 | 0.523 | 0.970 | 0.751 | |
| -30 | DC 8.51 | 0.963 | 0.581 | 0.512 | |
| Result | | Pass | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 8.51 | 0.616 | 0.477 | 5 |
| 40 | DC 8.51 | 0.381 | 0.517 | |
| 30 | DC 8.51 | 0.375 | 0.726 | |
| 20 | DC 8.51 | 0.497 | 0.540 | |
| 10 | DC 8.51 | 0.997 | 0.584 | |
| 0 | DC 8.51 | 0.949 | 0.545 | |
| -10 | DC 8.51 | 0.886 | 0.737 | |
| -20 | DC 8.51 | 0.413 | 0.503 | |
| -30 | DC 8.51 | 0.566 | 0.846 | |
| Result | | Pass | | |

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(4) Frequency stability versus input voltage (Battery endpoint is 6V) **-5W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.00 V | 0.657 | 1.035 | 0.895 | 5 |
| 40 | DC 6.00 V | 0.657 | 1.013 | 0.768 | |
| 30 | DC 6.00 V | 0.657 | 0.533 | 0.576 | |
| 20 | DC 6.00 V | 0.724 | 0.736 | 1.054 | |
| 10 | DC 6.00 V | 1.008 | 0.683 | 1.079 | |
| 0 | DC 6.00 V | 0.704 | 0.776 | 0.624 | |
| -10 | DC 6.00 V | 1.079 | 0.728 | 0.704 | |
| -20 | DC 6.00 V | 0.641 | 0.679 | 0.718 | |
| -30 | DC 6.00 V | 0.634 | 1.090 | 0.883 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.00 V | 0.907 | 0.640 | 5 |
| 40 | DC 6.00 V | 0.924 | 0.942 | |
| 30 | DC 6.00 V | 0.330 | 0.677 | |
| 20 | DC 6.00 V | 0.445 | 0.486 | |
| 10 | DC 6.00 V | 0.478 | 0.405 | |
| 0 | DC 6.00 V | 0.467 | 0.762 | |
| -10 | DC 6.00 V | 0.741 | 0.630 | |
| -20 | DC 6.00 V | 0.875 | 0.991 | |
| -30 | DC 6.00 V | 0.813 | 0.324 | |
| Result | Pass | | | |

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(1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V)-2.5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 7.40 V | 0.933 | 0.697 | 0.570 | 5 |
| 40 | DC 7.40 V | 0.701 | 0.513 | 0.960 | |
| 30 | DC 7.40 V | 0.878 | 0.897 | 1.021 | |
| 20 | DC 7.40 V | 0.879 | 1.008 | 0.822 | |
| 10 | DC 7.40 V | 1.043 | 0.912 | 0.537 | |
| 0 | DC 7.40 V | 0.542 | 1.073 | 0.891 | |
| -10 | DC 7.40 V | 0.597 | 0.790 | 0.979 | |
| -20 | DC 7.40 V | 0.547 | 0.928 | 0.611 | |
| -30 | DC 7.40 V | 1.086 | 0.959 | 0.943 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 7.40 V | 0.981 | 0.458 | 5 |
| 40 | DC 7.40 V | 0.315 | 0.321 | |
| 30 | DC 7.40 V | 0.919 | 0.566 | |
| 20 | DC 7.40 V | 0.398 | 0.306 | |
| 10 | DC 7.40 V | 0.641 | 0.574 | |
| 0 | DC 7.40 V | 0.470 | 0.827 | |
| -10 | DC 7.40 V | 0.383 | 0.315 | |
| -20 | DC 7.40 V | 0.672 | 0.910 | |
| -30 | DC 7.40 V | 0.429 | 0.371 | |
| Result | Pass | | | |

(2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) -2.5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.29 | 1.070 | 1.033 | 0.556 | 5 |
| 40 | DC 6.29 | 0.667 | 0.512 | 0.918 | |
| 30 | DC 6.29 | 0.847 | 0.713 | 0.957 | |
| 20 | DC 6.29 | 0.525 | 0.917 | 1.064 | |
| 10 | DC 6.29 | 1.036 | 0.623 | 0.979 | |
| 0 | DC 6.29 | 0.763 | 1.067 | 0.660 | |
| -10 | DC 6.29 | 0.523 | 0.701 | 0.708 | |
| -20 | DC 6.29 | 1.040 | 0.508 | 0.528 | |
| -30 | DC 6.29 | 0.997 | 0.611 | 0.683 | |
| Result | Pass | | | | |

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| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.29 | 0.717 | 0.885 | 5 |
| 40 | DC 6.29 | 0.946 | 0.355 | |
| 30 | DC 6.29 | 0.958 | 0.464 | |
| 20 | DC 6.29 | 0.526 | 0.349 | |
| 10 | DC 6.29 | 0.597 | 0.963 | |
| 0 | DC 6.29 | 0.329 | 0.578 | |
| -10 | DC 6.29 | 0.946 | 0.325 | |
| -20 | DC 6.29 | 0.358 | 0.575 | |
| -30 | DC 6.29 | 0.851 | 0.373 | |
| Result | | Pass | | |

(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) -2.5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 8.51 | 1.098 | 0.958 | 0.608 | 5 |
| 40 | DC 8.51 | 0.867 | 0.550 | 0.943 | |
| 30 | DC 8.51 | 0.988 | 0.511 | 0.734 | |
| 20 | DC 8.51 | 0.820 | 1.045 | 0.574 | |
| 10 | DC 8.51 | 0.895 | 0.948 | 1.082 | |
| 0 | DC 8.51 | 0.526 | 0.695 | 0.864 | |
| -10 | DC 8.51 | 0.956 | 1.028 | 0.695 | |
| -20 | DC 8.51 | 0.725 | 0.704 | 0.658 | |
| -30 | DC 8.51 | 0.772 | 0.754 | 0.722 | |
| Result | | Pass | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 8.51 | 1.016 | 0.861 | 5 |
| 40 | DC 8.51 | 0.920 | 0.764 | |
| 30 | DC 8.51 | 0.732 | 0.650 | |
| 20 | DC 8.51 | 0.955 | 0.595 | |
| 10 | DC 8.51 | 0.861 | 0.867 | |
| 0 | DC 8.51 | 0.531 | 0.588 | |
| -10 | DC 8.51 | 0.584 | 0.983 | |
| -20 | DC 8.51 | 0.917 | 0.612 | |
| -30 | DC 8.51 | 0.794 | 0.627 | |
| Result | | Pass | | |

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(4) Frequency stability versus input voltage (Battery endpoint is 6V) **-2.5W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.00 | 0.712 | 0.704 | 1.027 | 5 |
| 40 | DC 6.00 | 0.644 | 0.685 | 0.722 | |
| 30 | DC 6.00 | 0.518 | 0.798 | 0.596 | |
| 20 | DC 6.00 | 0.860 | 0.877 | 1.051 | |
| 10 | DC 6.00 | 0.716 | 0.733 | 0.817 | |
| 0 | DC 6.00 | 0.824 | 0.743 | 0.679 | |
| -10 | DC 6.00 | 1.077 | 0.746 | 0.712 | |
| -20 | DC 6.00 | 0.858 | 1.079 | 1.008 | |
| -30 | DC 6.00 | 1.025 | 0.624 | 1.014 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.00 V | 0.643 | 0.583 | 5 |
| 40 | DC 6.00 V | 0.655 | 0.894 | |
| 30 | DC 6.00 V | 1.060 | 0.545 | |
| 20 | DC 6.00 V | 0.591 | 1.100 | |
| 10 | DC 6.00 V | 0.952 | 0.878 | |
| 0 | DC 6.00 V | 0.950 | 0.625 | |
| -10 | DC 6.00 V | 0.549 | 0.583 | |
| -20 | DC 6.00 V | 0.945 | 0.987 | |
| -30 | DC 6.00 V | 0.861 | 0.835 | |
| Result | Pass | | | |

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(1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V)-1W-12.5KHz

| Environment Temperature(°C) | Power Supply (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|---------------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 7.40 V | 0.866 | 0.599 | 0.605 | 5 |
| 40 | DC 7.40 V | 0.723 | 0.894 | 0.678 | |
| 30 | DC 7.40 V | 0.700 | 0.649 | 0.992 | |
| 20 | DC 7.40 V | 1.032 | 0.543 | 0.505 | |
| 10 | DC 7.40 V | 0.805 | 0.620 | 0.791 | |
| 0 | DC 7.40 V | 0.834 | 1.048 | 0.568 | |
| -10 | DC 7.40 V | 0.740 | 0.660 | 0.947 | |
| -20 | DC 7.40 V | 0.610 | 0.929 | 0.812 | |
| -30 | DC 7.40 V | 0.968 | 0.789 | 0.850 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 7.40 V | 0.965 | 0.995 | 5 |
| 40 | DC 7.40 V | 0.840 | 0.883 | |
| 30 | DC 7.40 V | 0.815 | 0.743 | |
| 20 | DC 7.40 V | 0.575 | 0.726 | |
| 10 | DC 7.40 V | 0.801 | 0.940 | |
| 0 | DC 7.40 V | 0.705 | 1.025 | |
| -10 | DC 7.40 V | 0.541 | 0.692 | |
| -20 | DC 7.40 V | 0.926 | 0.810 | |
| -30 | DC 7.40 V | 0.764 | 0.820 | |
| Result | Pass | | | |

(2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) -1W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.29 | 1.054 | 0.895 | 0.750 | 5 |
| 40 | DC 6.29 | 0.612 | 1.062 | 1.091 | |
| 30 | DC 6.29 | 0.997 | 1.016 | 0.625 | |
| 20 | DC 6.29 | 0.698 | 1.020 | 0.657 | |
| 10 | DC 6.29 | 0.545 | 0.863 | 0.956 | |
| 0 | DC 6.29 | 0.825 | 0.749 | 1.002 | |
| -10 | DC 6.29 | 0.873 | 0.954 | 0.984 | |
| -20 | DC 6.29 | 1.024 | 1.047 | 0.892 | |
| -30 | DC 6.29 | 0.866 | 1.035 | 0.536 | |
| Result | Pass | | | | |

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| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.29 | 0.861 | 1.062 | 5 |
| 40 | DC 6.29 | 0.757 | 1.064 | |
| 30 | DC 6.29 | 0.700 | 0.773 | |
| 20 | DC 6.29 | 0.938 | 0.774 | |
| 10 | DC 6.29 | 0.587 | 0.810 | |
| 0 | DC 6.29 | 0.571 | 0.846 | |
| -10 | DC 6.29 | 1.068 | 0.938 | |
| -20 | DC 6.29 | 0.515 | 0.535 | |
| -30 | DC 6.29 | 0.667 | 0.517 | |
| Result | | Pass | | |

(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) -1W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 8.51 | 0.778 | 1.035 | 0.992 | 5 |
| 40 | DC 8.51 | 1.059 | 0.553 | 1.094 | |
| 30 | DC 8.51 | 0.824 | 0.626 | 0.543 | |
| 20 | DC 8.51 | 0.586 | 1.005 | 0.839 | |
| 10 | DC 8.51 | 0.999 | 1.000 | 1.046 | |
| 0 | DC 8.51 | 0.709 | 0.837 | 0.939 | |
| -10 | DC 8.51 | 1.045 | 0.810 | 0.762 | |
| -20 | DC 8.51 | 0.883 | 0.684 | 0.584 | |
| -30 | DC 8.51 | 0.938 | 0.542 | 0.888 | |
| Result | | Pass | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 8.51 | 0.659 | 0.657 | 5 |
| 40 | DC 8.51 | 1.063 | 0.588 | |
| 30 | DC 8.51 | 0.591 | 0.842 | |
| 20 | DC 8.51 | 0.557 | 0.761 | |
| 10 | DC 8.51 | 0.934 | 0.806 | |
| 0 | DC 8.51 | 0.967 | 1.064 | |
| -10 | DC 8.51 | 0.849 | 1.088 | |
| -20 | DC 8.51 | 1.041 | 0.620 | |
| -30 | DC 8.51 | 0.602 | 0.763 | |
| Result | | Pass | | |

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(4) Frequency stability versus input voltage (Battery endpoint is 6V) **-1W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.00 V | 0.718 | 0.923 | 0.615 | 5 |
| 40 | DC 6.00 V | 1.094 | 0.973 | 1.003 | |
| 30 | DC 6.00 V | 0.741 | 0.898 | 0.551 | |
| 20 | DC 6.00 V | 0.647 | 0.825 | 1.086 | |
| 10 | DC 6.00 V | 1.094 | 0.689 | 0.669 | |
| 0 | DC 6.00 V | 0.653 | 1.092 | 0.778 | |
| -10 | DC 6.00 V | 1.028 | 0.743 | 1.007 | |
| -20 | DC 6.00 V | 1.015 | 0.612 | 0.972 | |
| -30 | DC 6.00 V | 0.708 | 1.065 | 0.916 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.00 V | 0.730 | 0.715 | 5 |
| 40 | DC 6.00 V | 0.926 | 1.006 | |
| 30 | DC 6.00 V | 0.562 | 0.668 | |
| 20 | DC 6.00 V | 0.536 | 0.928 | |
| 10 | DC 6.00 V | 1.041 | 0.818 | |
| 0 | DC 6.00 V | 0.735 | 0.997 | |
| -10 | DC 6.00 V | 0.870 | 0.534 | |
| -20 | DC 6.00 V | 0.732 | 0.861 | |
| -30 | DC 6.00 V | 0.959 | 1.062 | |
| Result | Pass | | | |

 (1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V) **-0.2W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 7.40 | 0.949 | 0.650 | 0.879 | 5 |
| 40 | DC 7.40 | 1.011 | 1.069 | 0.982 | |
| 30 | DC 7.40 | 0.580 | 0.798 | 0.736 | |
| 20 | DC 7.40 | 0.631 | 0.858 | 0.877 | |
| 10 | DC 7.40 | 0.643 | 0.538 | 0.898 | |
| 0 | DC 7.40 | 0.761 | 0.549 | 0.567 | |
| -10 | DC 7.40 | 1.033 | 0.777 | 0.840 | |
| -20 | DC 7.40 | 0.652 | 1.006 | 0.522 | |
| -30 | DC 7.40 | 0.555 | 1.070 | 0.806 | |
| Result | Pass | | | | |

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| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 7.40 V | 0.735 | 1.057 | 5 |
| 40 | DC 7.40 V | 0.925 | 0.807 | |
| 30 | DC 7.40 V | 0.822 | 1.066 | |
| 20 | DC 7.40 V | 0.647 | 0.543 | |
| 10 | DC 7.40 V | 0.567 | 0.925 | |
| 0 | DC 7.40 V | 1.005 | 0.664 | |
| -10 | DC 7.40 V | 0.663 | 1.028 | |
| -20 | DC 7.40 V | 0.930 | 0.980 | |
| -30 | DC 7.40 V | 0.552 | 0.652 | |
| Result | Pass | | | |

 (2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) **-0.2W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.29 | 0.716 | 0.539 | 0.549 | 5 |
| 40 | DC 6.29 | 1.024 | 1.071 | 0.620 | |
| 30 | DC 6.29 | 0.813 | 0.993 | 0.563 | |
| 20 | DC 6.29 | 0.690 | 0.996 | 0.573 | |
| 10 | DC 6.29 | 0.917 | 1.072 | 1.071 | |
| 0 | DC 6.29 | 0.949 | 1.031 | 1.049 | |
| -10 | DC 6.29 | 1.088 | 1.074 | 0.836 | |
| -20 | DC 6.29 | 0.824 | 0.850 | 0.628 | |
| -30 | DC 6.29 | 1.029 | 1.098 | 0.582 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.29 | 0.673 | 0.716 | 5 |
| 40 | DC 6.29 | 0.997 | 0.549 | |
| 30 | DC 6.29 | 0.903 | 0.900 | |
| 20 | DC 6.29 | 0.706 | 0.639 | |
| 10 | DC 6.29 | 0.505 | 0.675 | |
| 0 | DC 6.29 | 0.767 | 0.607 | |
| -10 | DC 6.29 | 0.636 | 0.628 | |
| -20 | DC 6.29 | 1.075 | 0.918 | |
| -30 | DC 6.29 | 0.870 | 0.733 | |
| Result | Pass | | | |

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(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) **-0.2W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 8.51 | 0.918 | 1.080 | 0.718 | 5 |
| 40 | DC 8.51 | 0.741 | 0.972 | 1.084 | |
| 30 | DC 8.51 | 0.850 | 0.757 | 0.590 | |
| 20 | DC 8.51 | 0.662 | 1.089 | 0.541 | |
| 10 | DC 8.51 | 0.674 | 0.819 | 0.691 | |
| 0 | DC 8.51 | 0.925 | 0.808 | 1.077 | |
| -10 | DC 8.51 | 0.864 | 0.521 | 0.610 | |
| -20 | DC 8.51 | 0.675 | 0.716 | 0.512 | |
| -30 | DC 8.51 | 0.513 | 0.561 | 0.608 | |
| Result | | Pass | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 8.51 | 0.516 | 0.766 | 5 |
| 40 | DC 8.51 | 0.583 | 0.700 | |
| 30 | DC 8.51 | 0.519 | 0.808 | |
| 20 | DC 8.51 | 0.628 | 0.784 | |
| 10 | DC 8.51 | 0.661 | 0.850 | |
| 0 | DC 8.51 | 0.703 | 0.645 | |
| -10 | DC 8.51 | 0.826 | 0.520 | |
| -20 | DC 8.51 | 0.721 | 1.065 | |
| -30 | DC 8.51 | 0.587 | 0.995 | |
| Result | | Pass | | |

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(4) Frequency stability versus input voltage (Battery endpoint is 6V) **-0.2W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.00 | 0.804 | 0.598 | 0.516 | 5 |
| 40 | DC 6.00 | 0.583 | 0.634 | 0.783 | |
| 30 | DC 6.00 | 0.611 | 0.865 | 0.794 | |
| 20 | DC 6.00 | 0.612 | 1.096 | 1.006 | |
| 10 | DC 6.00 | 0.635 | 0.727 | 0.694 | |
| 0 | DC 6.00 | 0.696 | 0.835 | 0.667 | |
| -10 | DC 6.00 | 0.717 | 0.955 | 0.831 | |
| -20 | DC 6.00 | 0.893 | 0.964 | 0.870 | |
| -30 | DC 6.00 | 0.618 | 0.975 | 0.834 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.00 V | 0.646 | 0.794 | 5 |
| 40 | DC 6.00 V | 0.608 | 1.094 | |
| 30 | DC 6.00 V | 0.861 | 1.074 | |
| 20 | DC 6.00 V | 0.899 | 0.954 | |
| 10 | DC 6.00 V | 0.806 | 1.006 | |
| 0 | DC 6.00 V | 0.683 | 0.646 | |
| -10 | DC 6.00 V | 0.606 | 0.791 | |
| -20 | DC 6.00 V | 0.965 | 0.876 | |
| -30 | DC 6.00 V | 0.653 | 0.644 | |
| Result | Pass | | | |

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Digital:

(1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V)-5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 7.40 | 0.872 | 0.776 | 1.083 | 5 |
| 40 | DC 7.40 | 0.523 | 0.794 | 1.056 | |
| 30 | DC 7.40 | 0.523 | 0.634 | 0.974 | |
| 20 | DC 7.40 | 0.535 | 0.999 | 0.763 | |
| 10 | DC 7.40 | 1.089 | 0.501 | 0.837 | |
| 0 | DC 7.40 | 0.934 | 0.576 | 0.989 | |
| -10 | DC 7.40 | 0.886 | 0.727 | 0.756 | |
| -20 | DC 7.40 | 0.928 | 0.964 | 0.760 | |
| -30 | DC 7.40 | 0.640 | 1.007 | 0.527 | |
| Result | | Pass | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 7.40 V | 0.700 | 0.790 | 5 |
| 40 | DC 7.40 V | 0.613 | 0.969 | |
| 30 | DC 7.40 V | 0.653 | 0.807 | |
| 20 | DC 7.40 V | 0.855 | 0.961 | |
| 10 | DC 7.40 V | 0.876 | 0.509 | |
| 0 | DC 7.40 V | 0.874 | 0.619 | |
| -10 | DC 7.40 V | 1.040 | 0.578 | |
| -20 | DC 7.40 V | 0.953 | 0.738 | |
| -30 | DC 7.40 V | 0.645 | 0.845 | |
| Result | | Pass | | |

(2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) -5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.29 | 0.758 | 1.033 | 0.528 | 5 |
| 40 | DC 6.29 | 0.792 | 0.817 | 0.801 | |
| 30 | DC 6.29 | 0.786 | 0.547 | 0.505 | |
| 20 | DC 6.29 | 0.723 | 1.046 | 0.612 | |
| 10 | DC 6.29 | 0.592 | 0.569 | 0.686 | |
| 0 | DC 6.29 | 0.813 | 0.774 | 0.521 | |
| -10 | DC 6.29 | 0.770 | 0.996 | 0.618 | |
| -20 | DC 6.29 | 0.723 | 1.078 | 0.888 | |
| -30 | DC 6.29 | 1.058 | 0.578 | 0.793 | |
| Result | | Pass | | | |

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| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.29 | 0.692 | 0.867 | 5 |
| 40 | DC 6.29 | 0.966 | 1.037 | |
| 30 | DC 6.29 | 0.588 | 0.746 | |
| 20 | DC 6.29 | 1.090 | 0.854 | |
| 10 | DC 6.29 | 0.718 | 0.573 | |
| 0 | DC 6.29 | 0.614 | 0.881 | |
| -10 | DC 6.29 | 0.746 | 0.988 | |
| -20 | DC 6.29 | 0.517 | 0.503 | |
| -30 | DC 6.29 | 1.022 | 0.728 | |
| Result | | Pass | | |

(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) **-5W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 8.51 | 1.010 | 0.906 | 0.870 | 5 |
| 40 | DC 8.51 | 0.946 | 0.837 | 0.699 | |
| 30 | DC 8.51 | 0.549 | 0.844 | 0.961 | |
| 20 | DC 8.51 | 1.062 | 1.003 | 0.501 | |
| 10 | DC 8.51 | 0.691 | 0.676 | 0.596 | |
| 0 | DC 8.51 | 0.615 | 0.559 | 0.853 | |
| -10 | DC 8.51 | 1.039 | 1.008 | 0.717 | |
| -20 | DC 8.51 | 0.704 | 0.759 | 0.585 | |
| -30 | DC 8.51 | 0.789 | 0.583 | 0.904 | |
| Result | | Pass | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 8.51 | 0.900 | 1.076 | 5 |
| 40 | DC 8.51 | 1.023 | 0.694 | |
| 30 | DC 8.51 | 1.008 | 0.822 | |
| 20 | DC 8.51 | 0.986 | 0.817 | |
| 10 | DC 8.51 | 0.692 | 0.810 | |
| 0 | DC 8.51 | 0.500 | 0.908 | |
| -10 | DC 8.51 | 0.820 | 0.601 | |
| -20 | DC 8.51 | 0.648 | 0.956 | |
| -30 | DC 8.51 | 1.089 | 0.971 | |
| Result | | Pass | | |

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(4) Frequency stability versus input voltage (Battery endpoint is 6V) **-5W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.00 | 0.558 | 0.724 | 0.990 | 5 |
| 40 | DC 6.00 | 0.711 | 0.980 | 0.845 | |
| 30 | DC 6.00 | 0.588 | 1.029 | 0.835 | |
| 20 | DC 6.00 | 0.992 | 0.913 | 0.833 | |
| 10 | DC 6.00 | 0.735 | 0.970 | 0.923 | |
| 0 | DC 6.00 | 1.048 | 0.997 | 0.880 | |
| -10 | DC 6.00 | 0.510 | 0.812 | 0.958 | |
| -20 | DC 6.00 | 0.758 | 0.546 | 0.839 | |
| -30 | DC 6.00 | 0.862 | 0.640 | 0.950 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.00 | 0.921 | 0.819 | 5 |
| 40 | DC 6.00 | 0.920 | 0.522 | |
| 30 | DC 6.00 | 1.081 | 0.817 | |
| 20 | DC 6.00 | 0.975 | 0.858 | |
| 10 | DC 6.00 | 0.730 | 0.505 | |
| 0 | DC 6.00 | 0.998 | 0.787 | |
| -10 | DC 6.00 | 0.924 | 0.617 | |
| -20 | DC 6.00 | 0.745 | 1.008 | |
| -30 | DC 6.00 | 1.013 | 0.928 | |
| Result | Pass | | | |

 (1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V) **-2.5W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 7.40 | 0.756 | 1.009 | 0.597 | 5 |
| 40 | DC 7.40 | 0.799 | 0.657 | 0.657 | |
| 30 | DC 7.40 | 0.700 | 0.518 | 0.950 | |
| 20 | DC 7.40 | 0.673 | 0.739 | 1.030 | |
| 10 | DC 7.40 | 0.662 | 0.551 | 0.913 | |
| 0 | DC 7.40 | 0.676 | 0.662 | 0.826 | |
| -10 | DC 7.40 | 0.816 | 0.619 | 0.870 | |
| -20 | DC 7.40 | 0.881 | 0.753 | 0.661 | |
| -30 | DC 7.40 | 0.945 | 1.098 | 0.869 | |
| Result | Pass | | | | |

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| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 7.40 V | 0.871 | 0.602 | 5 |
| 40 | DC 7.40 V | 0.975 | 1.067 | |
| 30 | DC 7.40 V | 0.659 | 0.908 | |
| 20 | DC 7.40 V | 1.081 | 0.977 | |
| 10 | DC 7.40 V | 1.001 | 0.683 | |
| 0 | DC 7.40 V | 0.518 | 0.707 | |
| -10 | DC 7.40 V | 0.891 | 0.745 | |
| -20 | DC 7.40 V | 0.810 | 1.092 | |
| -30 | DC 7.40 V | 0.732 | 0.946 | |
| Result | Pass | | | |

(2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) -2.5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.29 | 0.951 | 0.669 | 0.696 | 5 |
| 40 | DC 6.29 | 0.946 | 0.942 | 0.603 | |
| 30 | DC 6.29 | 0.705 | 0.536 | 0.767 | |
| 20 | DC 6.29 | 0.708 | 0.593 | 0.986 | |
| 10 | DC 6.29 | 0.912 | 0.605 | 1.021 | |
| 0 | DC 6.29 | 0.916 | 0.848 | 1.055 | |
| -10 | DC 6.29 | 0.880 | 0.925 | 0.685 | |
| -20 | DC 6.29 | 0.757 | 0.804 | 0.859 | |
| -30 | DC 6.29 | 0.545 | 0.689 | 0.772 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.29 | 0.661 | 0.693 | 5 |
| 40 | DC 6.29 | 1.012 | 0.524 | |
| 30 | DC 6.29 | 0.766 | 0.961 | |
| 20 | DC 6.29 | 0.673 | 0.656 | |
| 10 | DC 6.29 | 1.097 | 0.972 | |
| 0 | DC 6.29 | 0.772 | 0.742 | |
| -10 | DC 6.29 | 0.766 | 1.079 | |
| -20 | DC 6.29 | 0.874 | 0.665 | |
| -30 | DC 6.29 | 0.585 | 0.871 | |
| Result | Pass | | | |

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(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) **-2.5W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 8.51 | 1.003 | 0.943 | 0.582 | 5 |
| 40 | DC 8.51 | 1.029 | 0.928 | 0.722 | |
| 30 | DC 8.51 | 0.819 | 0.586 | 1.038 | |
| 20 | DC 8.51 | 0.547 | 0.963 | 1.026 | |
| 10 | DC 8.51 | 0.694 | 0.617 | 0.724 | |
| 0 | DC 8.51 | 0.701 | 0.865 | 0.787 | |
| -10 | DC 8.51 | 0.665 | 0.687 | 0.677 | |
| -20 | DC 8.51 | 0.942 | 1.075 | 1.001 | |
| -30 | DC 8.51 | 0.591 | 0.759 | 0.570 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 8.51 | 0.984 | 0.585 | 5 |
| 40 | DC 8.51 | 0.953 | 1.056 | |
| 30 | DC 8.51 | 0.877 | 0.943 | |
| 20 | DC 8.51 | 1.092 | 0.527 | |
| 10 | DC 8.51 | 0.516 | 0.916 | |
| 0 | DC 8.51 | 0.788 | 0.864 | |
| -10 | DC 8.51 | 0.628 | 0.636 | |
| -20 | DC 8.51 | 0.748 | 0.829 | |
| -30 | DC 8.51 | 0.877 | 0.544 | |
| Result | Pass | | | |

 (4) Frequency stability versus input voltage (Battery endpoint is 6V) **-2.5W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.00 | 0.741 | 0.864 | 0.539 | 5 |
| 40 | DC 6.00 | 0.598 | 0.918 | 0.511 | |
| 30 | DC 6.00 | 0.922 | 0.879 | 1.092 | |
| 20 | DC 6.00 | 0.966 | 0.920 | 0.827 | |
| 10 | DC 6.00 | 0.916 | 1.009 | 1.079 | |
| 0 | DC 6.00 | 1.025 | 0.664 | 1.013 | |
| -10 | DC 6.00 | 0.696 | 1.017 | 0.945 | |
| -20 | DC 6.00 | 0.810 | 0.811 | 1.069 | |
| -30 | DC 6.00 | 0.727 | 0.925 | 0.564 | |
| Result | Pass | | | | |

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| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.00 | 0.978 | 0.758 | 5 |
| 40 | DC 6.00 | 0.911 | 0.692 | |
| 30 | DC 6.00 | 0.974 | 0.933 | |
| 20 | DC 6.00 | 0.993 | 0.657 | |
| 10 | DC 6.00 | 0.830 | 0.928 | |
| 0 | DC 6.00 | 0.855 | 0.773 | |
| -10 | DC 6.00 | 0.926 | 0.963 | |
| -20 | DC 6.00 | 0.944 | 0.846 | |
| -30 | DC 6.00 | 0.567 | 0.600 | |
| Result | | Pass | | |

(1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V)-1W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 7.40 | 0.834 | 0.510 | 0.947 | 5 |
| 40 | DC 7.40 | 0.945 | 0.825 | 0.664 | |
| 30 | DC 7.40 | 0.760 | 1.038 | 1.000 | |
| 20 | DC 7.40 | 0.721 | 1.018 | 0.941 | |
| 10 | DC 7.40 | 1.079 | 0.853 | 0.958 | |
| 0 | DC 7.40 | 0.821 | 0.827 | 0.771 | |
| -10 | DC 7.40 | 0.571 | 0.897 | 1.012 | |
| -20 | DC 7.40 | 0.809 | 0.649 | 0.819 | |
| -30 | DC 7.40 | 0.979 | 0.842 | 0.505 | |
| Result | | Pass | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 7.40 V | 0.534 | 1.029 | 5 |
| 40 | DC 7.40 V | 0.654 | 0.544 | |
| 30 | DC 7.40 V | 0.716 | 0.671 | |
| 20 | DC 7.40 V | 1.039 | 0.790 | |
| 10 | DC 7.40 V | 0.921 | 0.880 | |
| 0 | DC 7.40 V | 1.073 | 1.091 | |
| -10 | DC 7.40 V | 0.926 | 1.020 | |
| -20 | DC 7.40 V | 0.921 | 0.627 | |
| -30 | DC 7.40 V | 0.769 | 0.536 | |
| Result | | Pass | | |

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(2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) -1W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.29 | 0.647 | 0.521 | 0.577 | 5 |
| 40 | DC 6.29 | 0.656 | 0.907 | 0.867 | |
| 30 | DC 6.29 | 0.626 | 0.932 | 0.766 | |
| 20 | DC 6.29 | 0.679 | 0.739 | 0.574 | |
| 10 | DC 6.29 | 0.629 | 0.506 | 0.756 | |
| 0 | DC 6.29 | 0.523 | 1.033 | 0.944 | |
| -10 | DC 6.29 | 0.947 | 0.831 | 1.031 | |
| -20 | DC 6.29 | 0.685 | 0.521 | 0.843 | |
| -30 | DC 6.29 | 0.775 | 0.520 | 0.841 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.29 | 0.533 | 0.624 | 5 |
| 40 | DC 6.29 | 0.698 | 0.965 | |
| 30 | DC 6.29 | 0.658 | 0.568 | |
| 20 | DC 6.29 | 0.836 | 0.712 | |
| 10 | DC 6.29 | 0.922 | 1.095 | |
| 0 | DC 6.29 | 0.820 | 0.685 | |
| -10 | DC 6.29 | 0.812 | 0.557 | |
| -20 | DC 6.29 | 0.529 | 0.739 | |
| -30 | DC 6.29 | 0.596 | 0.608 | |
| Result | Pass | | | |

(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) -1W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 8.51 | 0.782 | 0.730 | 0.727 | 5 |
| 40 | DC 8.51 | 0.915 | 0.577 | 0.866 | |
| 30 | DC 8.51 | 0.614 | 0.732 | 0.971 | |
| 20 | DC 8.51 | 0.943 | 0.523 | 0.552 | |
| 10 | DC 8.51 | 0.819 | 0.904 | 0.766 | |
| 0 | DC 8.51 | 0.740 | 0.832 | 0.783 | |
| -10 | DC 8.51 | 0.706 | 0.906 | 0.915 | |
| -20 | DC 8.51 | 0.681 | 0.771 | 0.760 | |
| -30 | DC 8.51 | 0.741 | 0.872 | 0.912 | |
| Result | Pass | | | | |

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| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 8.51 | 0.991 | 0.922 | 5 |
| 40 | DC 8.51 | 0.921 | 0.749 | |
| 30 | DC 8.51 | 0.933 | 0.565 | |
| 20 | DC 8.51 | 0.988 | 0.962 | |
| 10 | DC 8.51 | 0.668 | 0.990 | |
| 0 | DC 8.51 | 0.862 | 0.831 | |
| -10 | DC 8.51 | 0.736 | 0.624 | |
| -20 | DC 8.51 | 0.894 | 0.581 | |
| -30 | DC 8.51 | 0.779 | 0.748 | |
| Result | Pass | | | |

(4) Frequency stability versus input voltage(Battery endpoint is 6V) -1W-12.5KHZ

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.00 | 0.730 | 0.555 | 0.883 | 5 |
| 40 | DC 6.00 | 0.962 | 1.066 | 0.663 | |
| 30 | DC 6.00 | 1.012 | 0.599 | 0.868 | |
| 20 | DC 6.00 | 0.541 | 0.999 | 0.538 | |
| 10 | DC 6.00 | 0.815 | 0.594 | 1.052 | |
| 0 | DC 6.00 | 1.062 | 0.826 | 0.667 | |
| -10 | DC 6.00 | 0.540 | 1.004 | 0.741 | |
| -20 | DC 6.00 | 0.844 | 0.960 | 0.824 | |
| -30 | DC 6.00 | 0.832 | 0.773 | 0.892 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.00 | 0.873 | 0.688 | 5 |
| 40 | DC 6.00 | 0.794 | 0.650 | |
| 30 | DC 6.00 | 0.886 | 0.920 | |
| 20 | DC 6.00 | 0.709 | 0.612 | |
| 10 | DC 6.00 | 1.098 | 0.927 | |
| 0 | DC 6.00 | 0.943 | 0.679 | |
| -10 | DC 6.00 | 0.901 | 0.992 | |
| -20 | DC 6.00 | 0.538 | 0.803 | |
| -30 | DC 6.00 | 0.586 | 1.053 | |
| Result | Pass | | | |

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(1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V) **-0.2W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 7.40 | 0.930 | 0.598 | 0.694 | 5 |
| 40 | DC 7.40 | 1.018 | 0.507 | 0.723 | |
| 30 | DC 7.40 | 0.715 | 0.675 | 0.948 | |
| 20 | DC 7.40 | 0.979 | 0.676 | 0.908 | |
| 10 | DC 7.40 | 0.775 | 0.787 | 0.755 | |
| 0 | DC 7.40 | 1.063 | 0.530 | 1.071 | |
| -10 | DC 7.40 | 0.699 | 1.016 | 0.671 | |
| -20 | DC 7.40 | 0.722 | 0.947 | 0.883 | |
| -30 | DC 7.40 | 0.665 | 0.989 | 0.796 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 7.40 V | 0.525 | 0.975 | 5 |
| 40 | DC 7.40 V | 1.042 | 0.723 | |
| 30 | DC 7.40 V | 0.625 | 1.006 | |
| 20 | DC 7.40 V | 0.512 | 0.592 | |
| 10 | DC 7.40 V | 1.038 | 0.831 | |
| 0 | DC 7.40 V | 0.866 | 0.822 | |
| -10 | DC 7.40 V | 0.965 | 0.978 | |
| -20 | DC 7.40 V | 0.593 | 0.670 | |
| -30 | DC 7.40 V | 0.736 | 0.740 | |
| Result | Pass | | | |

 (2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) **-0.2W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.29 | 0.582 | 0.890 | 0.939 | 5 |
| 40 | DC 6.29 | 0.611 | 0.708 | 0.942 | |
| 30 | DC 6.29 | 0.800 | 0.528 | 1.040 | |
| 20 | DC 6.29 | 0.881 | 1.072 | 0.893 | |
| 10 | DC 6.29 | 0.527 | 0.656 | 0.704 | |
| 0 | DC 6.29 | 0.596 | 0.503 | 0.957 | |
| -10 | DC 6.29 | 1.064 | 0.567 | 0.574 | |
| -20 | DC 6.29 | 0.923 | 0.975 | 0.615 | |
| -30 | DC 6.29 | 0.724 | 1.064 | 1.002 | |
| Result | Pass | | | | |

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| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.29 | 0.839 | 0.746 | 5 |
| 40 | DC 6.29 | 0.677 | 0.985 | |
| 30 | DC 6.29 | 0.538 | 0.918 | |
| 20 | DC 6.29 | 1.053 | 1.040 | |
| 10 | DC 6.29 | 1.054 | 1.015 | |
| 0 | DC 6.29 | 0.800 | 0.685 | |
| -10 | DC 6.29 | 1.100 | 0.989 | |
| -20 | DC 6.29 | 0.739 | 1.007 | |
| -30 | DC 6.29 | 0.721 | 0.921 | |
| Result | | Pass | | |

(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) -0.2W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 8.51 | 1.073 | 0.873 | 0.801 | 5 |
| 40 | DC 8.51 | 0.754 | 1.040 | 1.055 | |
| 30 | DC 8.51 | 0.901 | 0.893 | 0.527 | |
| 20 | DC 8.51 | 0.541 | 0.758 | 0.709 | |
| 10 | DC 8.51 | 0.642 | 0.524 | 0.566 | |
| 0 | DC 8.51 | 0.739 | 0.679 | 1.046 | |
| -10 | DC 8.51 | 0.716 | 0.729 | 1.069 | |
| -20 | DC 8.51 | 0.962 | 0.614 | 0.578 | |
| -30 | DC 8.51 | 0.649 | 0.716 | 1.053 | |
| Result | | Pass | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 8.51 | 0.576 | 0.792 | 5 |
| 40 | DC 8.51 | 0.508 | 0.688 | |
| 30 | DC 8.51 | 0.619 | 0.893 | |
| 20 | DC 8.51 | 0.865 | 0.842 | |
| 10 | DC 8.51 | 0.772 | 0.566 | |
| 0 | DC 8.51 | 0.999 | 0.910 | |
| -10 | DC 8.51 | 0.570 | 0.769 | |
| -20 | DC 8.51 | 0.965 | 0.793 | |
| -30 | DC 8.51 | 0.632 | 0.953 | |
| Result | | Pass | | |

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(4) Frequency stability versus input voltage (Battery endpoint is 6V) -0.2W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 136.025MHz | 155.025MHz | 173.975MHz | |
| 50 | DC 6.00 | 0.693 | 0.851 | 0.856 | 5 |
| 40 | DC 6.00 | 1.015 | 0.920 | 1.082 | |
| 30 | DC 6.00 | 0.868 | 0.636 | 0.922 | |
| 20 | DC 6.00 | 0.896 | 0.845 | 0.833 | |
| 10 | DC 6.00 | 0.800 | 0.993 | 1.046 | |
| 0 | DC 6.00 | 0.928 | 0.579 | 0.709 | |
| -10 | DC 6.00 | 0.560 | 1.012 | 0.612 | |
| -20 | DC 6.00 | 0.774 | 0.707 | 0.740 | |
| -30 | DC 6.00 | 0.527 | 0.900 | 0.738 | |
| Result | Pass | | | | |

| Environment Temperature(°C) | Power (V) | Reference Frequency | | Limit: ppm |
|--------------------------------|--------------|---------------------|-----------|---------------|
| | | 151.85MHz | 161.61MHz | |
| 50 | DC 6.00 | 0.886 | 0.723 | 5 |
| 40 | DC 6.00 | 0.885 | 0.748 | |
| 30 | DC 6.00 | 0.642 | 0.699 | |
| 20 | DC 6.00 | 0.544 | 1.084 | |
| 10 | DC 6.00 | 0.611 | 0.608 | |
| 0 | DC 6.00 | 1.008 | 0.889 | |
| -10 | DC 6.00 | 0.829 | 0.572 | |
| -20 | DC 6.00 | 0.631 | 0.514 | |
| -30 | DC 6.00 | 0.926 | 0.886 | |
| Result | Pass | | | |

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UHF:
Analog:
(1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V)-5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 7.40 | 0.748 | 1.091 | 0.590 | 2.5 |
| 40 | DC 7.40 | 0.579 | 0.738 | 0.932 | |
| 30 | DC 7.40 | 1.009 | 0.856 | 0.812 | |
| 20 | DC 7.40 | 1.038 | 1.044 | 0.597 | |
| 10 | DC 7.40 | 0.716 | 0.751 | 0.575 | |
| 0 | DC 7.40 | 1.037 | 0.667 | 0.501 | |
| -10 | DC 7.40 | 0.632 | 0.555 | 0.953 | |
| -20 | DC 7.40 | 0.736 | 0.578 | 0.907 | |
| -30 | DC 7.40 | 0.589 | 0.824 | 0.712 | |
| Result | | Pass | | | |

(2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) -5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.29 | 1.047 | 0.515 | 0.812 | 2.5 |
| 40 | DC 6.29 | 0.748 | 0.802 | 0.560 | |
| 30 | DC 6.29 | 0.750 | 0.564 | 0.566 | |
| 20 | DC 6.29 | 0.958 | 0.515 | 0.883 | |
| 10 | DC 6.29 | 0.954 | 0.858 | 0.642 | |
| 0 | DC 6.29 | 0.959 | 1.005 | 0.971 | |
| -10 | DC 6.29 | 0.614 | 0.795 | 0.884 | |
| -20 | DC 6.29 | 0.564 | 0.835 | 1.044 | |
| -30 | DC 6.29 | 0.562 | 0.848 | 0.509 | |
| Result | | Pass | | | |

(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) -5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 8.51 | 0.949 | 0.758 | 1.019 | 2.5 |
| 40 | DC 8.51 | 0.716 | 0.845 | 0.881 | |
| 30 | DC 8.51 | 0.773 | 1.018 | 0.690 | |
| 20 | DC 8.51 | 0.707 | 0.843 | 0.834 | |
| 10 | DC 8.51 | 0.917 | 0.766 | 0.818 | |
| 0 | DC 8.51 | 0.883 | 0.642 | 0.860 | |
| -10 | DC 8.51 | 0.809 | 0.739 | 0.838 | |
| -20 | DC 8.51 | 0.951 | 1.060 | 0.691 | |
| -30 | DC 8.51 | 0.800 | 0.776 | 0.702 | |
| Result | | Pass | | | |

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(4) Frequency stability versus input voltage (Battery endpoint is 6V) -5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.00 V | 0.711 | 1.021 | 0.668 | 2.5 |
| 40 | DC 6.00 V | 0.797 | 0.632 | 0.945 | |
| 30 | DC 6.00 V | 0.889 | 0.549 | 0.681 | |
| 20 | DC 6.00 V | 0.673 | 0.623 | 0.938 | |
| 10 | DC 6.00 V | 0.555 | 0.941 | 1.020 | |
| 0 | DC 6.00 V | 0.790 | 0.823 | 0.898 | |
| -10 | DC 6.00 V | 0.520 | 0.916 | 0.605 | |
| -20 | DC 6.00 V | 0.951 | 0.982 | 1.043 | |
| -30 | DC 6.00 V | 0.844 | 0.649 | 0.693 | |
| Result | Pass | | | | |

(1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V)-2.5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 7.40 | 0.809 | 0.736 | 0.809 | 2.5 |
| 40 | DC 7.40 | 0.765 | 0.778 | 0.966 | |
| 30 | DC 7.40 | 0.579 | 0.942 | 0.798 | |
| 20 | DC 7.40 | 0.767 | 1.010 | 0.902 | |
| 10 | DC 7.40 | 0.709 | 0.580 | 0.914 | |
| 0 | DC 7.40 | 0.547 | 0.602 | 0.746 | |
| -10 | DC 7.40 | 0.937 | 0.509 | 0.880 | |
| -20 | DC 7.40 | 0.906 | 0.963 | 0.787 | |
| -30 | DC 7.40 | 0.856 | 0.512 | 0.701 | |
| Result | Pass | | | | |

(2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) -2.5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.29 | 0.893 | 0.751 | 1.026 | 2.5 |
| 40 | DC 6.29 | 0.931 | 1.015 | 0.909 | |
| 30 | DC 6.29 | 0.657 | 0.588 | 0.782 | |
| 20 | DC 6.29 | 0.875 | 0.813 | 0.630 | |
| 10 | DC 6.29 | 0.892 | 0.806 | 1.045 | |
| 0 | DC 6.29 | 0.791 | 0.520 | 1.088 | |
| -10 | DC 6.29 | 0.625 | 0.995 | 0.686 | |
| -20 | DC 6.29 | 1.087 | 0.649 | 0.515 | |
| -30 | DC 6.29 | 1.100 | 1.047 | 1.033 | |
| Result | Pass | | | | |

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(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) **-2.5W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 8.51 | 0.822 | 0.996 | 0.525 | 2.5 |
| 40 | DC 8.51 | 1.077 | 0.811 | 0.770 | |
| 30 | DC 8.51 | 1.056 | 0.676 | 0.970 | |
| 20 | DC 8.51 | 0.754 | 1.017 | 0.795 | |
| 10 | DC 8.51 | 0.911 | 0.791 | 1.078 | |
| 0 | DC 8.51 | 0.661 | 0.967 | 0.908 | |
| -10 | DC 8.51 | 0.752 | 1.065 | 0.506 | |
| -20 | DC 8.51 | 0.963 | 0.620 | 0.586 | |
| -30 | DC 8.51 | 0.509 | 0.801 | 1.062 | |
| Result | | Pass | | | |

 (4) Frequency stability versus input voltage (Battery endpoint is 6V) **-2.5W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.00 V | 0.533 | 0.636 | 0.679 | 2.5 |
| 40 | DC 6.00 V | 0.758 | 0.840 | 0.859 | |
| 30 | DC 6.00 V | 0.720 | 0.993 | 0.896 | |
| 20 | DC 6.00 V | 0.698 | 0.559 | 0.985 | |
| 10 | DC 6.00 V | 0.703 | 1.030 | 0.968 | |
| 0 | DC 6.00 V | 0.927 | 0.875 | 0.716 | |
| -10 | DC 6.00 V | 0.836 | 0.784 | 0.803 | |
| -20 | DC 6.00 V | 0.851 | 0.688 | 0.835 | |
| -30 | DC 6.00 V | 0.624 | 0.695 | 1.033 | |
| Result | | Pass | | | |

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(1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V)-1W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 7.40 | 0.712 | 0.847 | 0.929 | 2.5 |
| 40 | DC 7.40 | 0.626 | 1.094 | 0.876 | |
| 30 | DC 7.40 | 0.694 | 1.086 | 0.555 | |
| 20 | DC 7.40 | 0.615 | 0.862 | 0.985 | |
| 10 | DC 7.40 | 0.507 | 0.504 | 0.991 | |
| 0 | DC 7.40 | 0.603 | 0.696 | 1.037 | |
| -10 | DC 7.40 | 0.907 | 0.887 | 0.510 | |
| -20 | DC 7.40 | 0.682 | 0.565 | 0.564 | |
| -30 | DC 7.40 | 0.822 | 0.903 | 0.597 | |
| Result | Pass | | | | |

(2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) -1W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.29 | 0.942 | 0.550 | 0.648 | 2.5 |
| 40 | DC 6.29 | 0.653 | 0.868 | 0.657 | |
| 30 | DC 6.29 | 0.987 | 0.570 | 0.940 | |
| 20 | DC 6.29 | 0.955 | 1.058 | 1.063 | |
| 10 | DC 6.29 | 0.832 | 0.780 | 1.002 | |
| 0 | DC 6.29 | 0.761 | 0.734 | 0.750 | |
| -10 | DC 6.29 | 0.663 | 0.834 | 0.803 | |
| -20 | DC 6.29 | 0.904 | 0.513 | 0.639 | |
| -30 | DC 6.29 | 0.785 | 0.621 | 0.552 | |
| Result | Pass | | | | |

(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) -1W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 8.51 | 1.042 | 0.681 | 0.502 | 2.5 |
| 40 | DC 8.51 | 0.919 | 0.792 | 0.580 | |
| 30 | DC 8.51 | 0.843 | 1.097 | 0.827 | |
| 20 | DC 8.51 | 0.744 | 0.746 | 0.754 | |
| 10 | DC 8.51 | 0.509 | 0.516 | 0.847 | |
| 0 | DC 8.51 | 0.609 | 0.537 | 0.629 | |
| -10 | DC 8.51 | 0.771 | 1.017 | 0.518 | |
| -20 | DC 8.51 | 0.892 | 0.686 | 0.509 | |
| -30 | DC 8.51 | 0.833 | 0.609 | 0.680 | |
| Result | Pass | | | | |

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(4) Frequency stability versus input voltage (Battery endpoint is 6V) -1W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.00 | 0.949 | 0.741 | 0.939 | 2.5 |
| 40 | DC 6.00 | 0.936 | 0.950 | 0.975 | |
| 30 | DC 6.00 | 0.591 | 0.590 | 0.798 | |
| 20 | DC 6.00 | 0.978 | 0.644 | 0.847 | |
| 10 | DC 6.00 | 0.618 | 0.543 | 0.930 | |
| 0 | DC 6.00 | 1.094 | 0.788 | 0.684 | |
| -10 | DC 6.00 | 0.724 | 1.093 | 1.045 | |
| -20 | DC 6.00 | 0.724 | 0.956 | 0.999 | |
| -30 | DC 6.00 | 1.068 | 0.976 | 0.644 | |
| Result | Pass | | | | |

(1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V)-0.2W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 7.40 | 0.853 | 0.641 | 0.895 | 2.5 |
| 40 | DC 7.40 | 0.805 | 0.761 | 0.908 | |
| 30 | DC 7.40 | 0.763 | 0.876 | 0.930 | |
| 20 | DC 7.40 | 0.663 | 1.035 | 0.799 | |
| 10 | DC 7.40 | 1.023 | 0.825 | 1.013 | |
| 0 | DC 7.40 | 1.077 | 0.696 | 0.938 | |
| -10 | DC 7.40 | 0.835 | 0.652 | 0.631 | |
| -20 | DC 7.40 | 0.775 | 0.732 | 1.034 | |
| -30 | DC 7.40 | 0.537 | 0.535 | 1.033 | |
| Result | Pass | | | | |

(2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) -0.2W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.29 | 0.906 | 0.513 | 0.548 | 2.5 |
| 40 | DC 6.29 | 0.577 | 0.837 | 0.723 | |
| 30 | DC 6.29 | 0.941 | 1.050 | 0.538 | |
| 20 | DC 6.29 | 0.654 | 0.791 | 0.575 | |
| 10 | DC 6.29 | 1.010 | 0.691 | 0.551 | |
| 0 | DC 6.29 | 0.869 | 0.856 | 0.618 | |
| -10 | DC 6.29 | 0.518 | 0.872 | 0.819 | |
| -20 | DC 6.29 | 0.801 | 0.659 | 1.080 | |
| -30 | DC 6.29 | 0.503 | 1.025 | 0.869 | |
| Result | Pass | | | | |

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(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) -0.2W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 8.51 | 0.774 | 0.785 | 0.853 | 2.5 |
| 40 | DC 8.51 | 0.797 | 0.617 | 1.000 | |
| 30 | DC 8.51 | 1.028 | 1.098 | 0.575 | |
| 20 | DC 8.51 | 0.626 | 1.090 | 1.033 | |
| 10 | DC 8.51 | 0.640 | 0.850 | 0.877 | |
| 0 | DC 8.51 | 0.991 | 1.042 | 0.524 | |
| -10 | DC 8.51 | 0.657 | 0.682 | 0.889 | |
| -20 | DC 8.51 | 0.730 | 1.094 | 0.657 | |
| -30 | DC 8.51 | 0.839 | 1.070 | 0.941 | |
| Result | | Pass | | | |

(4) Frequency stability versus input voltage (Battery endpoint is 6V) -0.2W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.00 | 0.965 | 1.086 | 0.699 | 2.5 |
| 40 | DC 6.00 | 0.621 | 0.536 | 0.892 | |
| 30 | DC 6.00 | 0.876 | 0.774 | 0.604 | |
| 20 | DC 6.00 | 1.090 | 0.530 | 0.787 | |
| 10 | DC 6.00 | 1.035 | 0.640 | 0.924 | |
| 0 | DC 6.00 | 1.094 | 0.919 | 0.930 | |
| -10 | DC 6.00 | 1.008 | 0.807 | 0.837 | |
| -20 | DC 6.00 | 0.847 | 0.521 | 0.509 | |
| -30 | DC 6.00 | 0.559 | 1.099 | 0.850 | |
| Result | | Pass | | | |

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Digital:

 (1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V) **-5W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 7.40 | 0.809 | 0.508 | 0.501 | 2.5 |
| 40 | DC 7.40 | 0.673 | 0.697 | 0.801 | |
| 30 | DC 7.40 | 0.843 | 0.882 | 0.869 | |
| 20 | DC 7.40 | 0.965 | 0.927 | 0.866 | |
| 10 | DC 7.40 | 0.501 | 0.932 | 0.957 | |
| 0 | DC 7.40 | 0.917 | 0.775 | 0.807 | |
| -10 | DC 7.40 | 0.510 | 0.686 | 0.661 | |
| -20 | DC 7.40 | 0.838 | 0.938 | 0.773 | |
| -30 | DC 7.40 | 0.958 | 0.581 | 0.701 | |
| Result | | Pass | | | |

 (2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) **-5W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.29 | 0.793 | 0.673 | 0.812 | 2.5 |
| 40 | DC 6.29 | 1.066 | 0.753 | 0.680 | |
| 30 | DC 6.29 | 0.618 | 0.807 | 0.761 | |
| 20 | DC 6.29 | 0.698 | 0.599 | 0.768 | |
| 10 | DC 6.29 | 0.871 | 0.877 | 1.076 | |
| 0 | DC 6.29 | 0.837 | 0.656 | 0.526 | |
| -10 | DC 6.29 | 0.940 | 0.538 | 0.799 | |
| -20 | DC 6.29 | 0.919 | 0.510 | 0.680 | |
| -30 | DC 6.29 | 0.624 | 0.651 | 0.634 | |
| Result | | Pass | | | |

 (3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) **-5W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 8.51 | 0.892 | 0.896 | 0.963 | 2.5 |
| 40 | DC 8.51 | 0.930 | 0.822 | 0.830 | |
| 30 | DC 8.51 | 0.791 | 0.866 | 0.536 | |
| 20 | DC 8.51 | 0.573 | 0.583 | 1.061 | |
| 10 | DC 8.51 | 0.840 | 0.789 | 0.777 | |
| 0 | DC 8.51 | 0.627 | 0.891 | 0.619 | |
| -10 | DC 8.51 | 0.549 | 0.714 | 0.802 | |
| -20 | DC 8.51 | 0.675 | 0.543 | 0.992 | |
| -30 | DC 8.51 | 0.927 | 0.623 | 0.991 | |
| Result | | Pass | | | |

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(4) Frequency stability versus input voltage (Battery endpoint is 6V) -5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.00 | 0.584 | 0.915 | 0.795 | 2.5 |
| 40 | DC 6.00 | 0.588 | 0.747 | 0.542 | |
| 30 | DC 6.00 | 0.897 | 0.545 | 0.814 | |
| 20 | DC 6.00 | 0.998 | 0.797 | 0.685 | |
| 10 | DC 6.00 | 0.642 | 1.012 | 0.683 | |
| 0 | DC 6.00 | 0.940 | 0.728 | 0.544 | |
| -10 | DC 6.00 | 0.963 | 0.884 | 0.534 | |
| -20 | DC 6.00 | 0.606 | 0.945 | 1.068 | |
| -30 | DC 6.00 | 0.608 | 1.042 | 1.054 | |
| Result | Pass | | | | |

(1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V)-2.5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 7.40 | 0.956 | 1.050 | 0.998 | 2.5 |
| 40 | DC 7.40 | 0.836 | 0.528 | 0.977 | |
| 30 | DC 7.40 | 0.538 | 1.031 | 0.699 | |
| 20 | DC 7.40 | 0.709 | 1.063 | 0.555 | |
| 10 | DC 7.40 | 0.617 | 0.794 | 0.940 | |
| 0 | DC 7.40 | 1.009 | 0.907 | 0.724 | |
| -10 | DC 7.40 | 0.699 | 0.924 | 0.990 | |
| -20 | DC 7.40 | 0.847 | 0.528 | 1.028 | |
| -30 | DC 7.40 | 0.635 | 0.638 | 0.503 | |
| Result | Pass | | | | |

(2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) -2.5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.29 | 0.503 | 0.752 | 1.053 | 2.5 |
| 40 | DC 6.29 | 0.531 | 1.018 | 0.911 | |
| 30 | DC 6.29 | 0.878 | 0.892 | 0.707 | |
| 20 | DC 6.29 | 0.732 | 0.554 | 1.051 | |
| 10 | DC 6.29 | 0.658 | 0.891 | 0.885 | |
| 0 | DC 6.29 | 0.729 | 0.525 | 0.908 | |
| -10 | DC 6.29 | 0.680 | 0.751 | 0.614 | |
| -20 | DC 6.29 | 0.880 | 0.843 | 0.819 | |
| -30 | DC 6.29 | 0.502 | 0.939 | 0.860 | |
| Result | Pass | | | | |

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(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) -2.5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 8.51 | 1.100 | 0.820 | 0.887 | 2.5 |
| 40 | DC 8.51 | 0.534 | 0.638 | 0.682 | |
| 30 | DC 8.51 | 0.905 | 0.771 | 0.928 | |
| 20 | DC 8.51 | 0.956 | 1.009 | 1.019 | |
| 10 | DC 8.51 | 0.983 | 0.828 | 0.851 | |
| 0 | DC 8.51 | 0.921 | 0.589 | 1.091 | |
| -10 | DC 8.51 | 0.666 | 0.976 | 0.941 | |
| -20 | DC 8.51 | 1.064 | 0.674 | 0.661 | |
| -30 | DC 8.51 | 0.936 | 0.679 | 1.033 | |
| Result | Pass | | | | |

(4) Frequency stability versus input voltage(Battery endpoint is 6V) -2.5W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.00 | 0.628 | 0.683 | 0.549 | 2.5 |
| 40 | DC 6.00 | 0.836 | 0.781 | 0.791 | |
| 30 | DC 6.00 | 1.084 | 0.533 | 0.679 | |
| 20 | DC 6.00 | 0.543 | 0.786 | 0.855 | |
| 10 | DC 6.00 | 0.726 | 0.893 | 0.704 | |
| 0 | DC 6.00 | 0.706 | 0.824 | 0.510 | |
| -10 | DC 6.00 | 1.054 | 0.855 | 0.865 | |
| -20 | DC 6.00 | 0.770 | 0.836 | 0.640 | |
| -30 | DC 6.00 | 0.968 | 0.918 | 1.051 | |
| Result | Pass | | | | |

(1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V)-1W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 7.40 | 0.810 | 0.681 | 0.749 | 2.5 |
| 40 | DC 7.40 | 0.899 | 0.630 | 0.846 | |
| 30 | DC 7.40 | 0.537 | 0.668 | 0.926 | |
| 20 | DC 7.40 | 0.932 | 0.782 | 0.843 | |
| 10 | DC 7.40 | 0.944 | 0.502 | 0.568 | |
| 0 | DC 7.40 | 0.934 | 0.896 | 0.766 | |
| -10 | DC 7.40 | 0.837 | 0.589 | 0.650 | |
| -20 | DC 7.40 | 0.539 | 0.518 | 0.727 | |
| -30 | DC 7.40 | 0.670 | 0.877 | 0.825 | |
| Result | Pass | | | | |

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(2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) -1W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.29 | 0.513 | 1.088 | 1.000 | 2.5 |
| 40 | DC 6.29 | 0.976 | 0.529 | 0.587 | |
| 30 | DC 6.29 | 0.844 | 0.813 | 0.724 | |
| 20 | DC 6.29 | 0.851 | 0.514 | 0.791 | |
| 10 | DC 6.29 | 0.903 | 0.639 | 1.040 | |
| 0 | DC 6.29 | 0.715 | 0.654 | 0.570 | |
| -10 | DC 6.29 | 1.083 | 1.049 | 0.858 | |
| -20 | DC 6.29 | 0.548 | 0.913 | 0.795 | |
| -30 | DC 6.29 | 0.931 | 0.550 | 1.044 | |
| Result | Pass | | | | |

(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) -1W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 8.51 | 0.658 | 1.096 | 0.610 | 2.5 |
| 40 | DC 8.51 | 0.715 | 0.801 | 0.585 | |
| 30 | DC 8.51 | 0.560 | 0.968 | 0.919 | |
| 20 | DC 8.51 | 0.530 | 0.900 | 0.825 | |
| 10 | DC 8.51 | 0.532 | 0.549 | 0.860 | |
| 0 | DC 8.51 | 0.559 | 0.700 | 0.776 | |
| -10 | DC 8.51 | 0.793 | 0.983 | 0.533 | |
| -20 | DC 8.51 | 1.010 | 0.721 | 1.007 | |
| -30 | DC 8.51 | 1.027 | 0.737 | 0.595 | |
| Result | Pass | | | | |

(4) Frequency stability versus input voltage (Battery endpoint is 6V) -1W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.00 | 0.979 | 0.922 | 0.757 | 2.5 |
| 40 | DC 6.00 | 0.677 | 0.507 | 1.008 | |
| 30 | DC 6.00 | 1.057 | 1.017 | 0.907 | |
| 20 | DC 6.00 | 1.005 | 1.096 | 0.849 | |
| 10 | DC 6.00 | 1.006 | 0.882 | 0.829 | |
| 0 | DC 6.00 | 0.663 | 0.886 | 0.824 | |
| -10 | DC 6.00 | 0.716 | 0.915 | 0.935 | |
| -20 | DC 6.00 | 0.979 | 0.511 | 1.085 | |
| -30 | DC 6.00 | 0.759 | 0.758 | 0.792 | |
| Result | Pass | | | | |

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(1) Frequency stability versus input voltage (Supply nominal voltage is 7.40V)-0.2W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 7.40 | 0.625 | 0.585 | 0.999 | 2.5 |
| 40 | DC 7.40 | 0.817 | 1.074 | 1.010 | |
| 30 | DC 7.40 | 0.729 | 0.861 | 0.659 | |
| 20 | DC 7.40 | 0.592 | 1.072 | 0.865 | |
| 10 | DC 7.40 | 0.553 | 1.048 | 0.734 | |
| 0 | DC 7.40 | 0.967 | 0.737 | 0.542 | |
| -10 | DC 7.40 | 0.823 | 0.883 | 0.905 | |
| -20 | DC 7.40 | 0.968 | 0.536 | 0.533 | |
| -30 | DC 7.40 | 1.081 | 0.858 | 0.540 | |
| Result | | Pass | | | |

(2) Frequency stability versus input voltage (Battery limiting voltage is 6.29V) -0.2W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.29 | 0.581 | 0.963 | 0.738 | 2.5 |
| 40 | DC 6.29 | 0.501 | 1.082 | 1.093 | |
| 30 | DC 6.29 | 1.064 | 0.730 | 0.501 | |
| 20 | DC 6.29 | 0.979 | 0.796 | 0.935 | |
| 10 | DC 6.29 | 0.814 | 1.002 | 0.947 | |
| 0 | DC 6.29 | 0.716 | 1.049 | 0.680 | |
| -10 | DC 6.29 | 0.626 | 0.527 | 0.636 | |
| -20 | DC 6.29 | 0.910 | 0.647 | 0.674 | |
| -30 | DC 6.29 | 1.000 | 0.515 | 0.568 | |
| Result | | Pass | | | |

(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 8.51V) -0.2W-12.5KHz

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 8.51 | 1.048 | 0.963 | 0.664 | 2.5 |
| 40 | DC 8.51 | 0.677 | 0.600 | 0.509 | |
| 30 | DC 8.51 | 0.795 | 1.053 | 1.045 | |
| 20 | DC 8.51 | 0.663 | 1.088 | 1.066 | |
| 10 | DC 8.51 | 0.614 | 0.619 | 0.540 | |
| 0 | DC 8.51 | 0.684 | 0.911 | 1.053 | |
| -10 | DC 8.51 | 0.959 | 0.678 | 0.540 | |
| -20 | DC 8.51 | 0.889 | 1.084 | 0.926 | |
| -30 | DC 8.51 | 0.671 | 1.025 | 0.919 | |
| Result | | Pass | | | |

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(4) Frequency stability versus input voltage (Battery endpoint is 6V) **-0.2W-12.5KHz**

| Environment Temperature(°C) | Power (V) | Reference Frequency | | | Limit: ppm |
|--------------------------------|--------------|---------------------|------------|------------|---------------|
| | | 400.025MHz | 454.025MHz | 479.975MHz | |
| 50 | DC 6.00 | 0.516 | 0.720 | 0.588 | 2.5 |
| 40 | DC 6.00 | 0.649 | 1.060 | 0.549 | |
| 30 | DC 6.00 | 1.021 | 0.997 | 1.048 | |
| 20 | DC 6.00 | 0.826 | 0.706 | 0.689 | |
| 10 | DC 6.00 | 0.749 | 0.983 | 0.704 | |
| 0 | DC 6.00 | 1.000 | 0.873 | 0.530 | |
| -10 | DC 6.00 | 0.922 | 0.617 | 1.011 | |
| -20 | DC 6.00 | 0.845 | 0.847 | 0.610 | |
| -30 | DC 6.00 | 0.641 | 0.519 | 0.964 | |
| Result | Pass | | | | |

Note: The unit in frequency stability result is ppm.

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6. EMISSION BANDWIDTH

6.1 PROVISIONS APPLICABLE

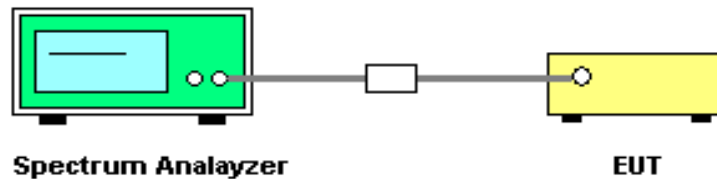
FCC Part 90 & FCC Part 22:

The authorized bandwidth shall be 11.25 KHz for 12.5 KHz channel separation and 6 KHz for 6.25 KHz channel separation.

6.2 MEASUREMENT PROCEDURE

- 1). The EUT was placed on a turn table which is 0.8m above ground plane.
- 2). The EUT was modulated by 2.5 KHz Sine wave audio signal, The level of the audio signal employed is 16 dB greater than that necessary to produce 50% of rated system deviation. Rated system deviation is 2.5 kHz (12.5 kHz channel spacing).
- 3). Set SPA Center Frequency = fundamental frequency, RBW=100Hz.VBW= 300 Hz, Span =50 KHz.
- 4). Set SPA Max hold. Mark peak, -26 dB.

6.3 TEST SETUP BLOCK DIAGRAM



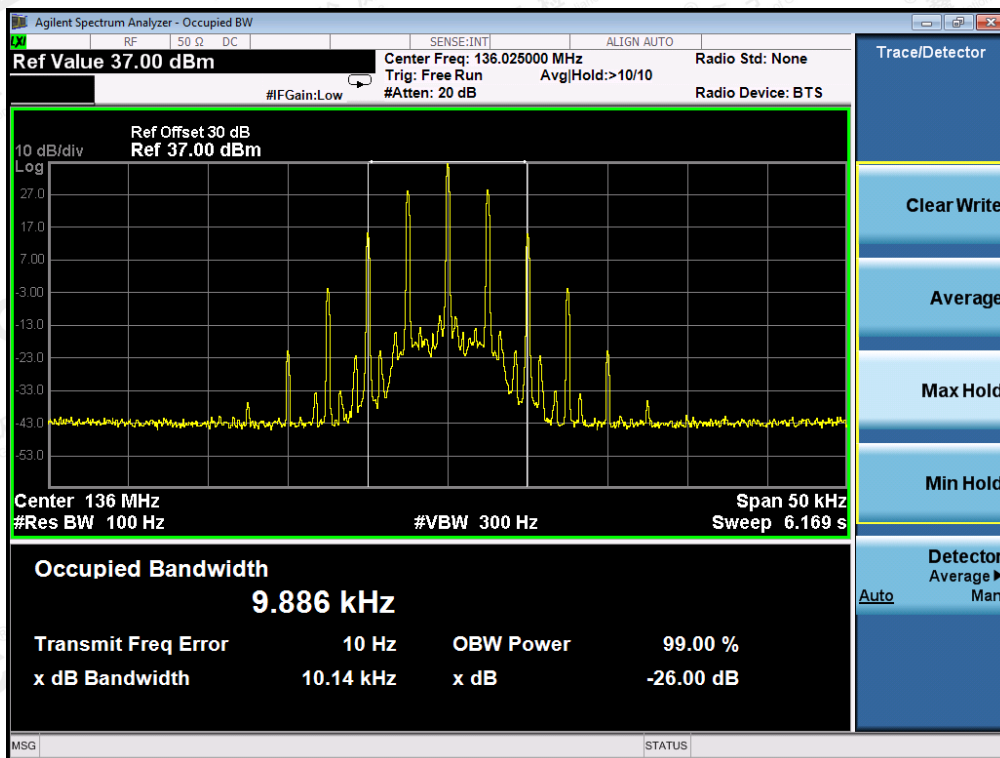
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6.4 MEASUREMENT RESULT

VHF:
Analog:

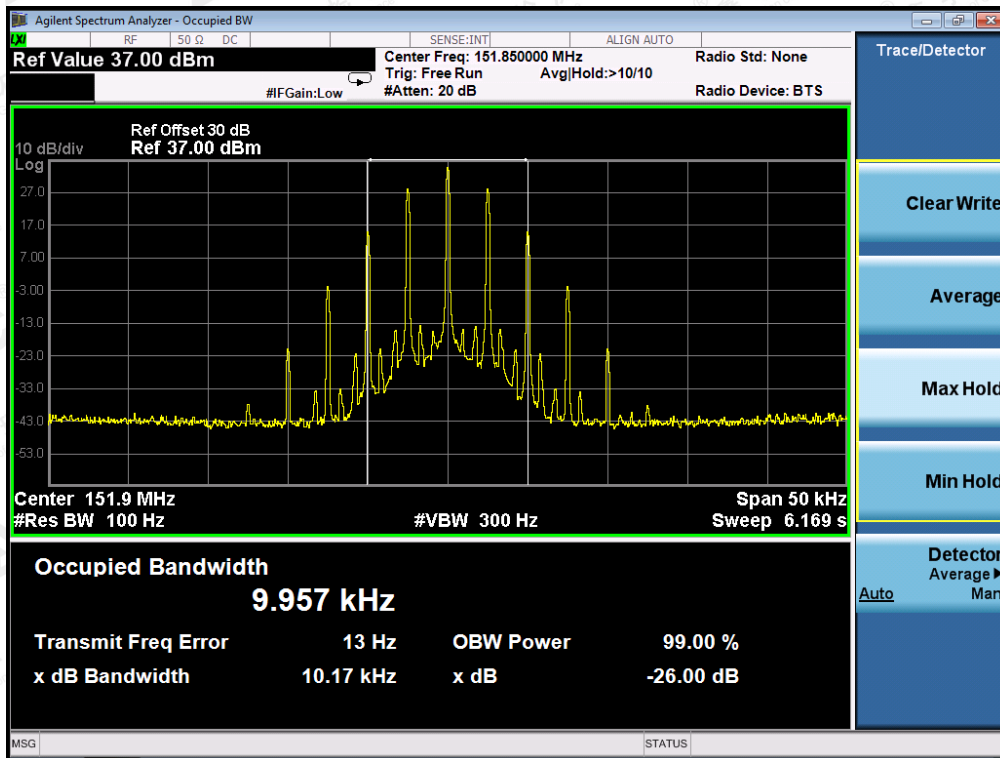
| 26 dB Bandwidth Measurement Result | | | |
|------------------------------------|-----------------------------|-----------|--------|
| Operating Frequency | 12.5 KHz Channel Separation | | |
| | Test Data | Limits | Result |
| 136.025MHz | 10.14KHz | 11.25 KHz | Pass |
| 151.850MHz | 10.17KHz | 11.25 KHz | Pass |
| 161.61MHz | 10.14KHz | 11.25 KHz | Pass |
| 173.975MHz | 9.02KHz | 11.25 KHz | Pass |

Occupied bandwidth of Bottom Channel (Maximum)-5W

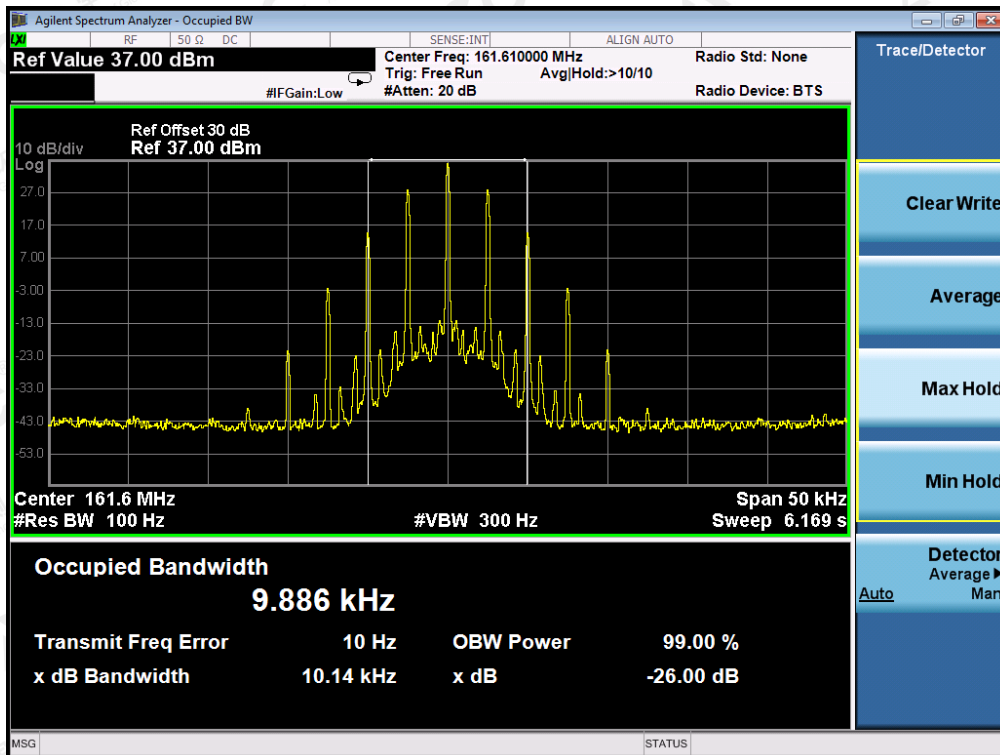


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Occupied bandwidth of Middle Channel (151.850 MHz)-5W

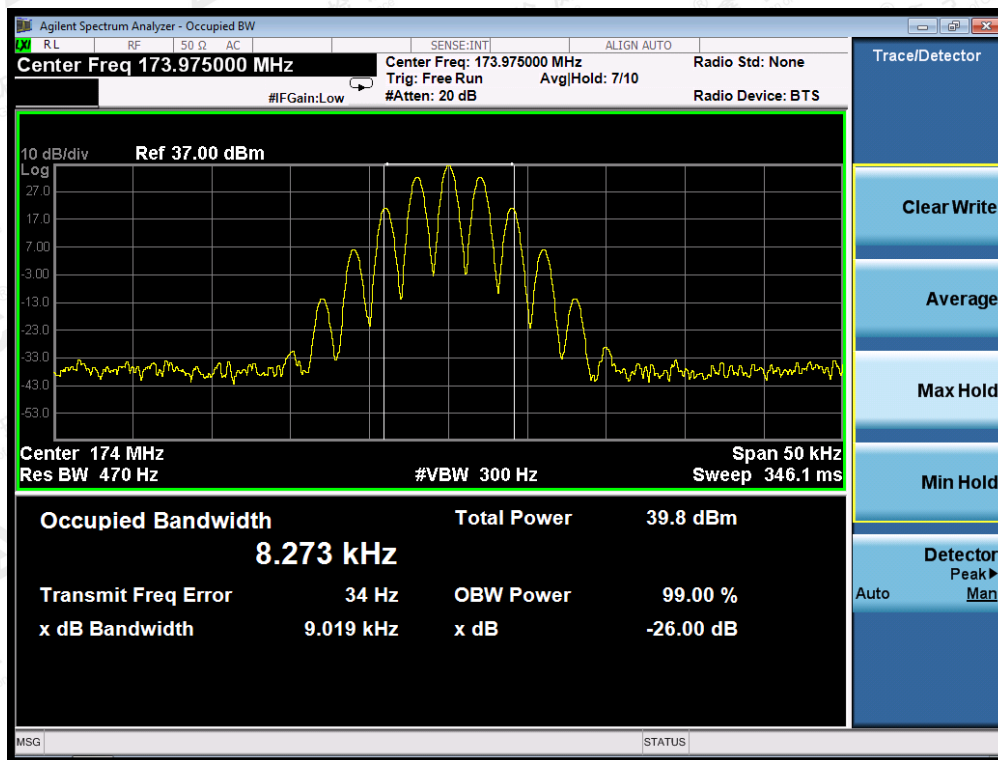


Occupied bandwidth of Middle Channel (161.610 MHz)-5W



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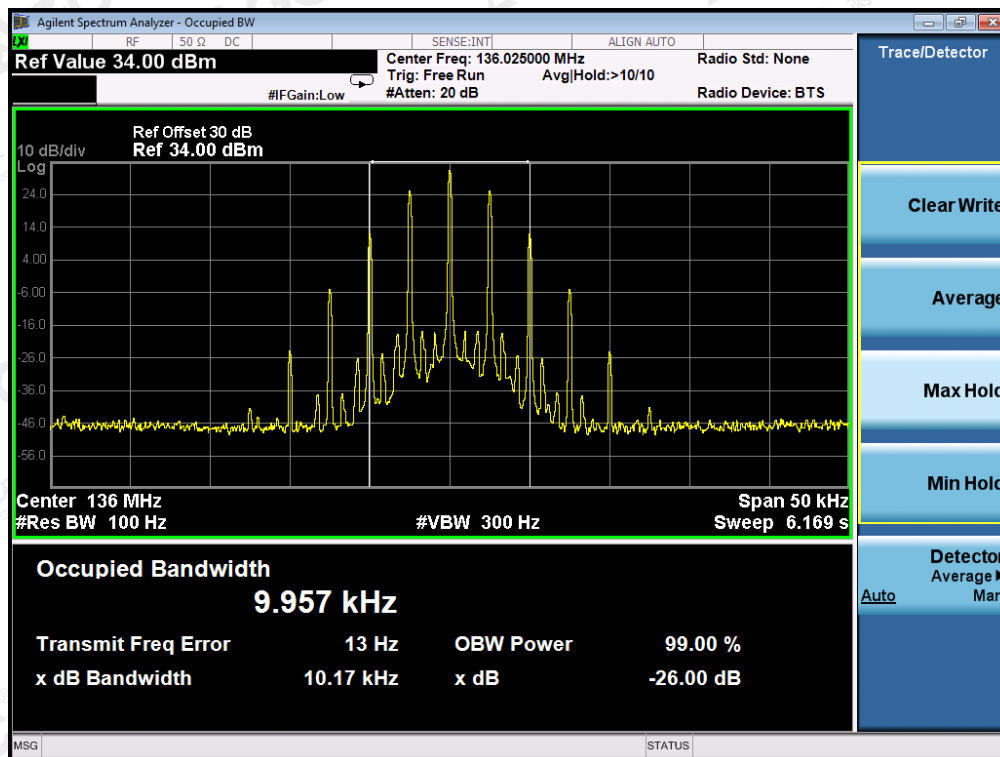
Occupied bandwidth of High Channel (Maximum)-5W



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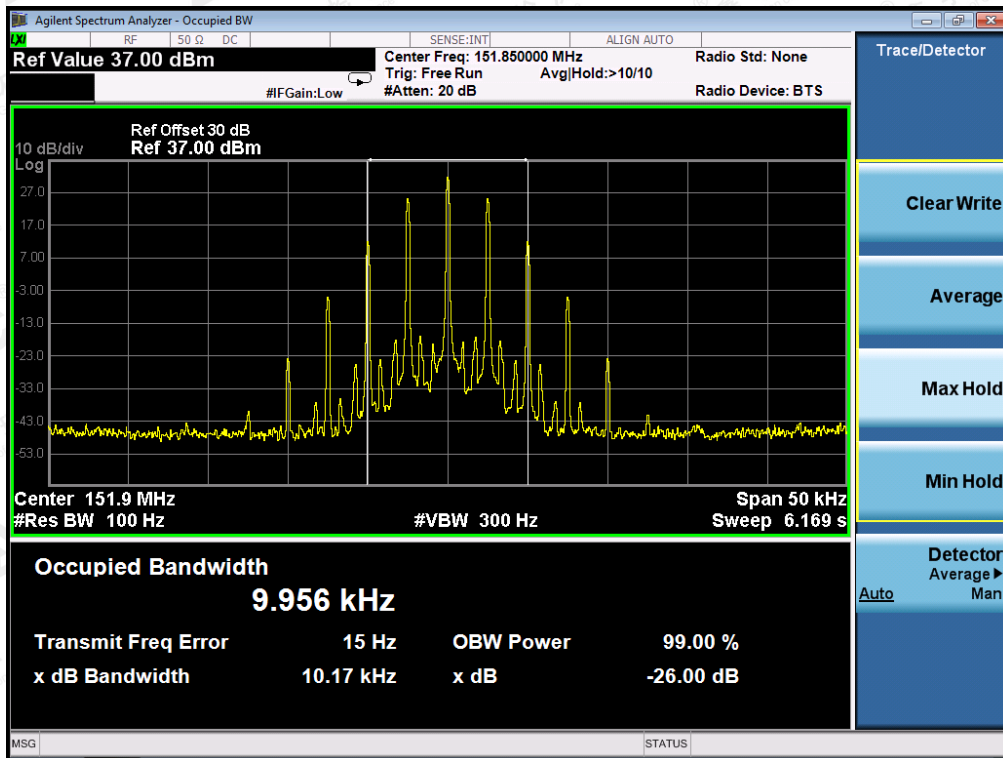
| 26 dB Bandwidth Measurement Result | | | |
|------------------------------------|-----------------------------|-----------|--------|
| Operating Frequency | 12.5 KHz Channel Separation | | |
| | Test Data | Limits | Result |
| 136.025MHz | 10.17KHz | 11.25 KHz | Pass |
| 151.850MHz | 10.17KHz | 11.25 KHz | Pass |
| 161.61MHz | 10.17KHz | 11.25 KHz | Pass |
| 173.975MHz | 9.02KHz | 11.25 KHz | Pass |

Occupied bandwidth of Bottom Channel (Maximum)-2.5W

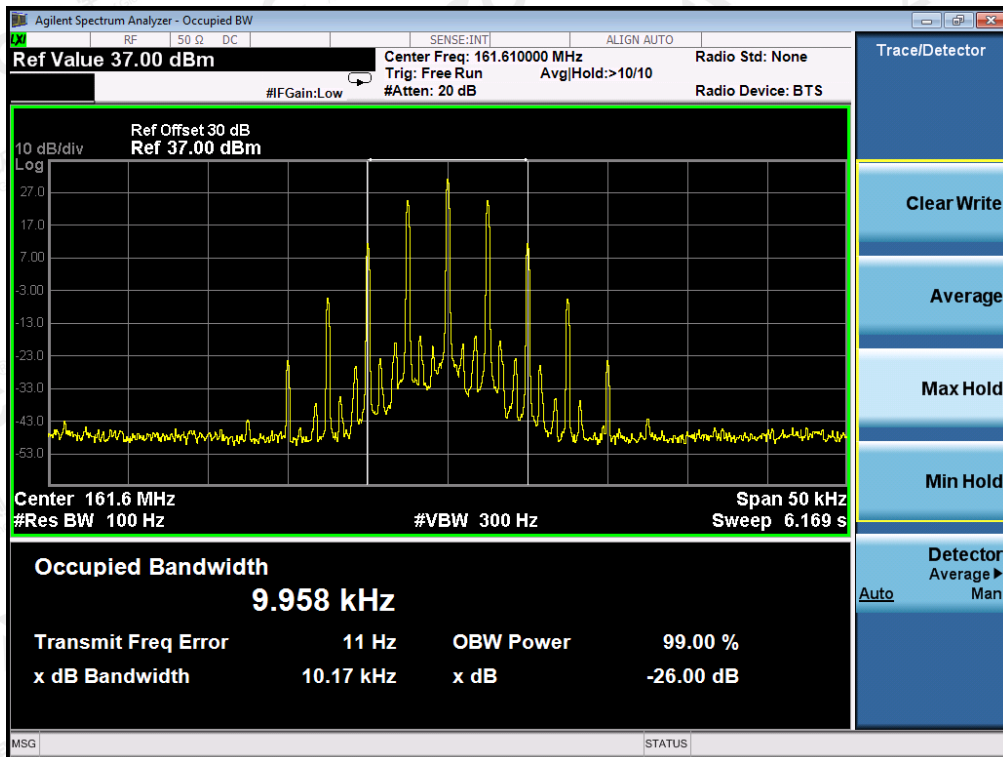


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Occupied bandwidth of Middle Channel (151.850 MHz)-2.5W

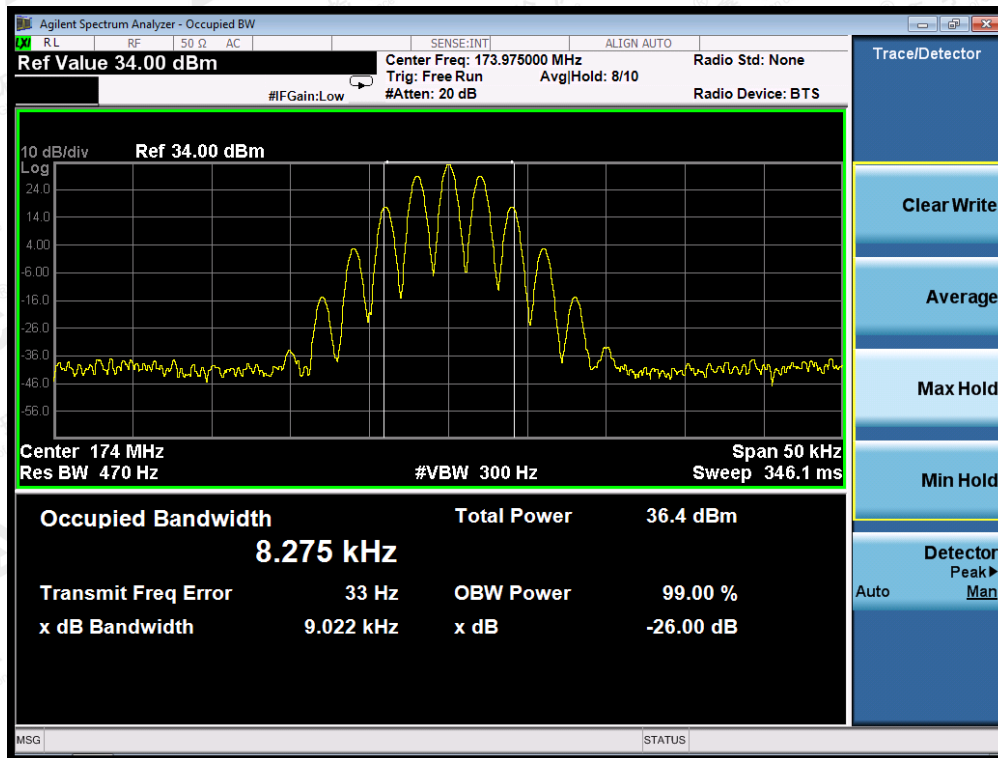


Occupied bandwidth of Middle Channel (161.610 MHz)-2.5W



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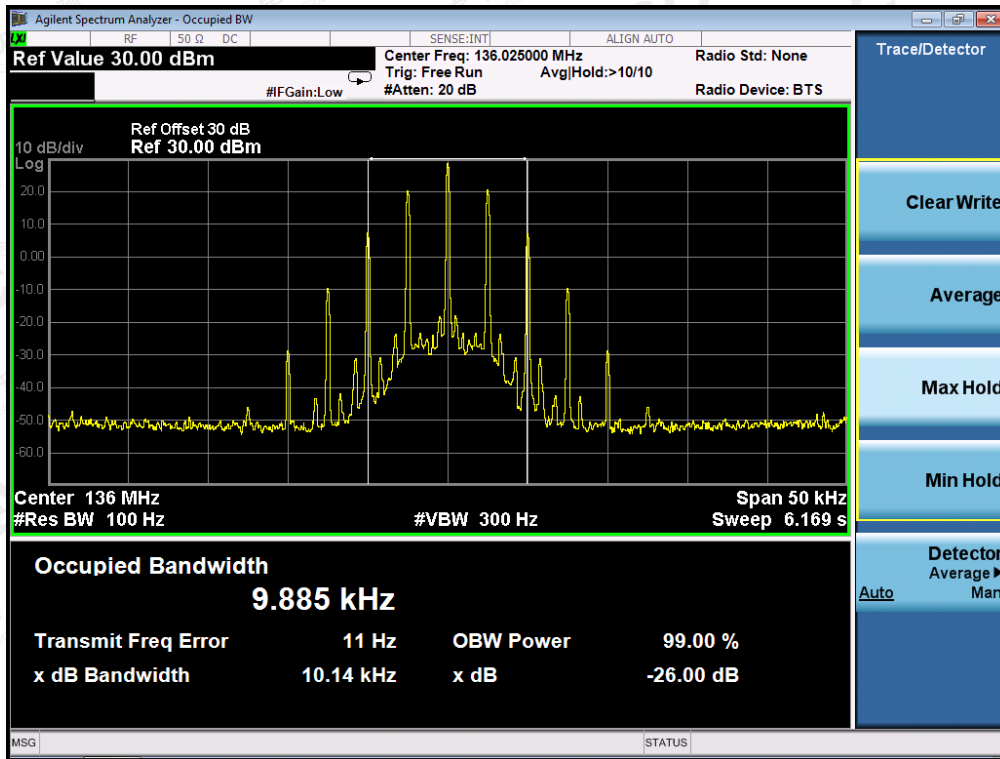
Occupied bandwidth of High Channel (173.975 MHz)-2.5W



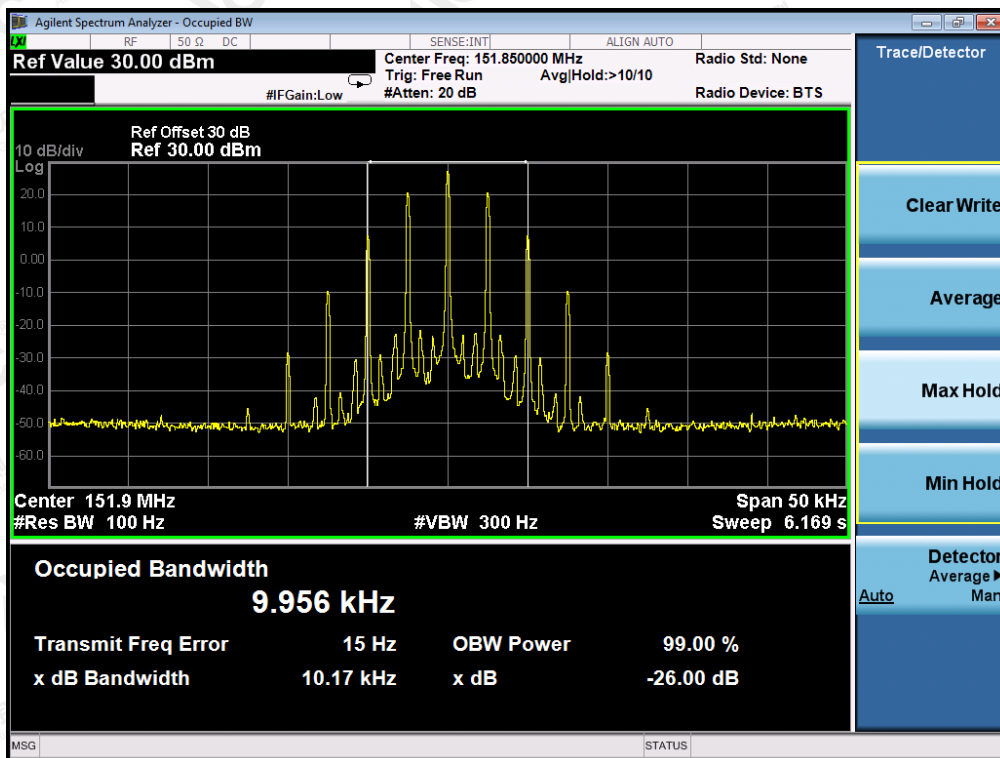
| 26 dB Bandwidth Measurement Result | | | |
|------------------------------------|-----------------------------|-----------|--------|
| Operating Frequency | 12.5 KHz Channel Separation | | |
| | Test Data | Limits | Result |
| 136.025MHz | 10.14KHz | 11.25 KHz | Pass |
| 151.850MHz | 10.17KHz | 11.25 KHz | Pass |
| 161.61MHz | 10.17KHz | 11.25 KHz | Pass |
| 179.975MHz | 9.02KHz | 11.25 KHz | Pass |

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Occupied bandwidth of Bottom Channel (Maximum)-1W

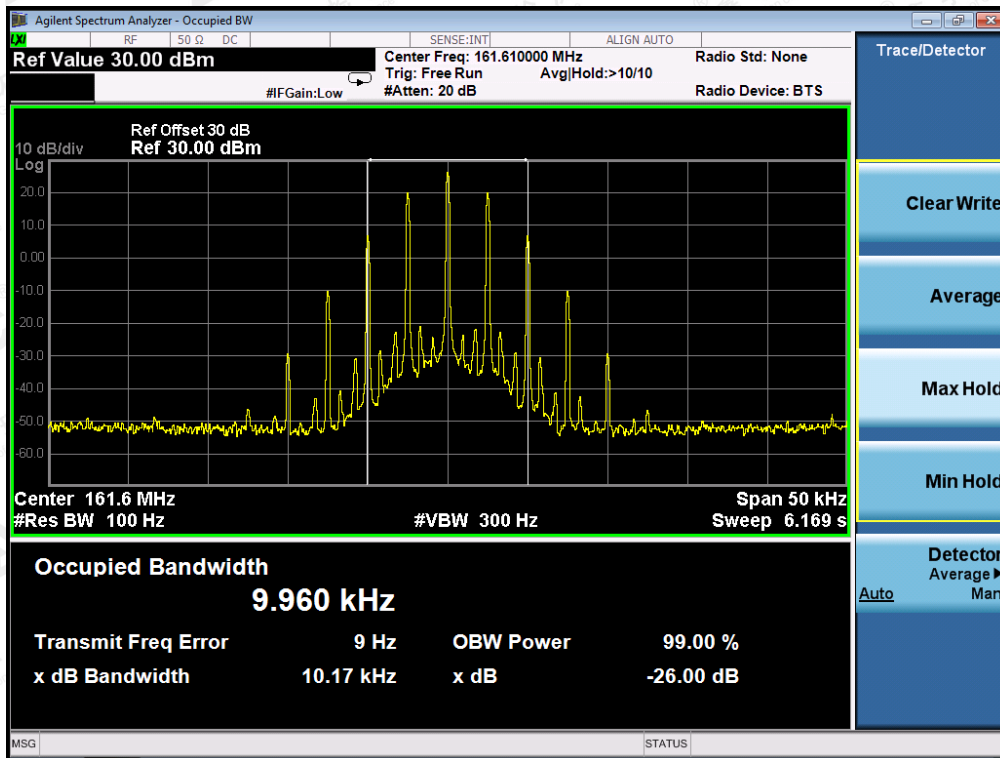


Occupied bandwidth of Middle Channel (151.850 MHz)-1W

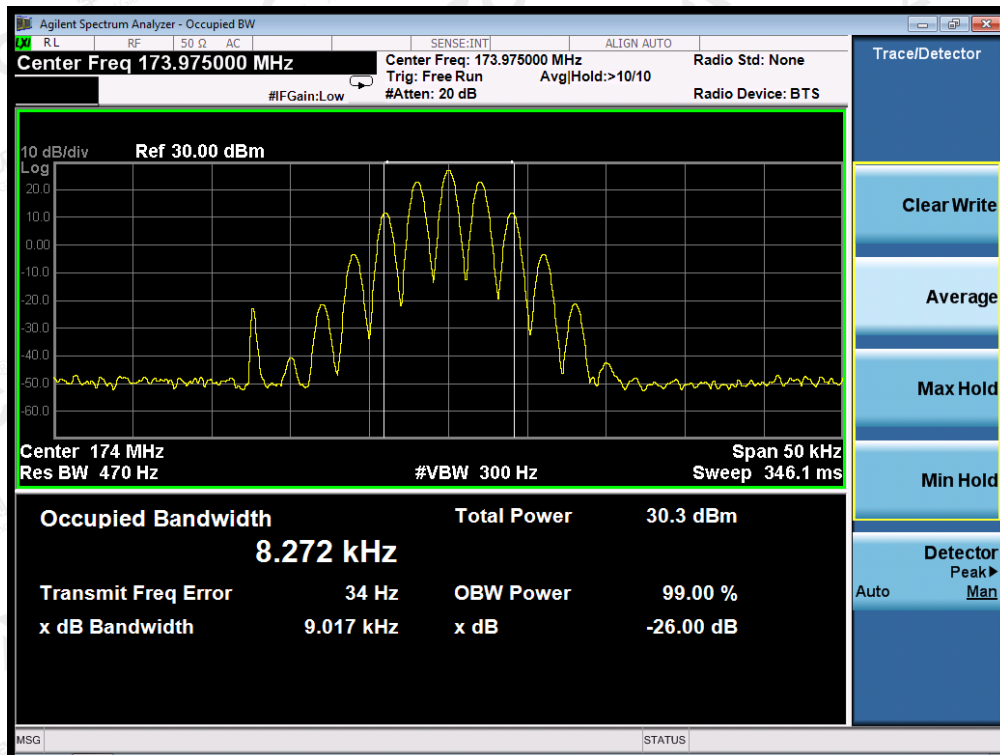


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Occupied bandwidth of Middle Channel (161.610 MHz)-1W



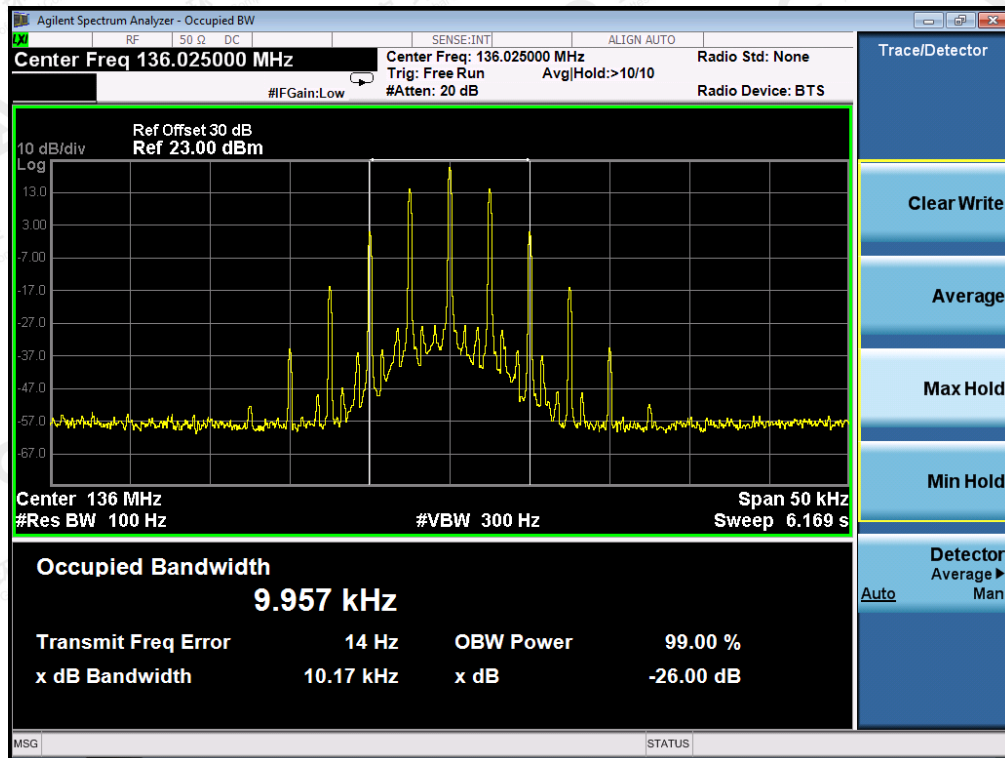
Occupied bandwidth of High Channel (Maximum)-1W



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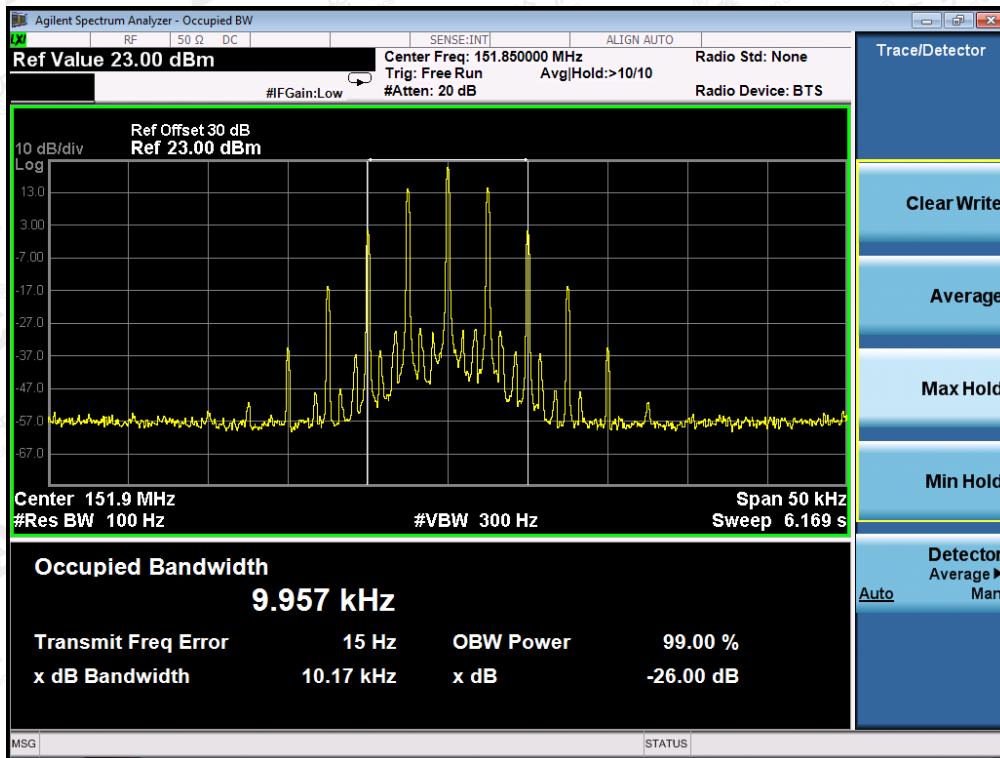
| 26 dB Bandwidth Measurement Result | | | |
|------------------------------------|-----------------------------|-----------|--------|
| Operating Frequency | 12.5 KHz Channel Separation | | |
| | Test Data | Limits | Result |
| 136.025MHz | 10.17KHz | 11.25 KHz | Pass |
| 151.850MHz | 10.17KHz | 11.25 KHz | Pass |
| 161.61MHz | 10.17KHz | 11.25 KHz | Pass |
| 173.975MHz | 9.02KHz | 11.25 KHz | Pass |

Occupied bandwidth of Bottom Channel (Maximum)-0.2W

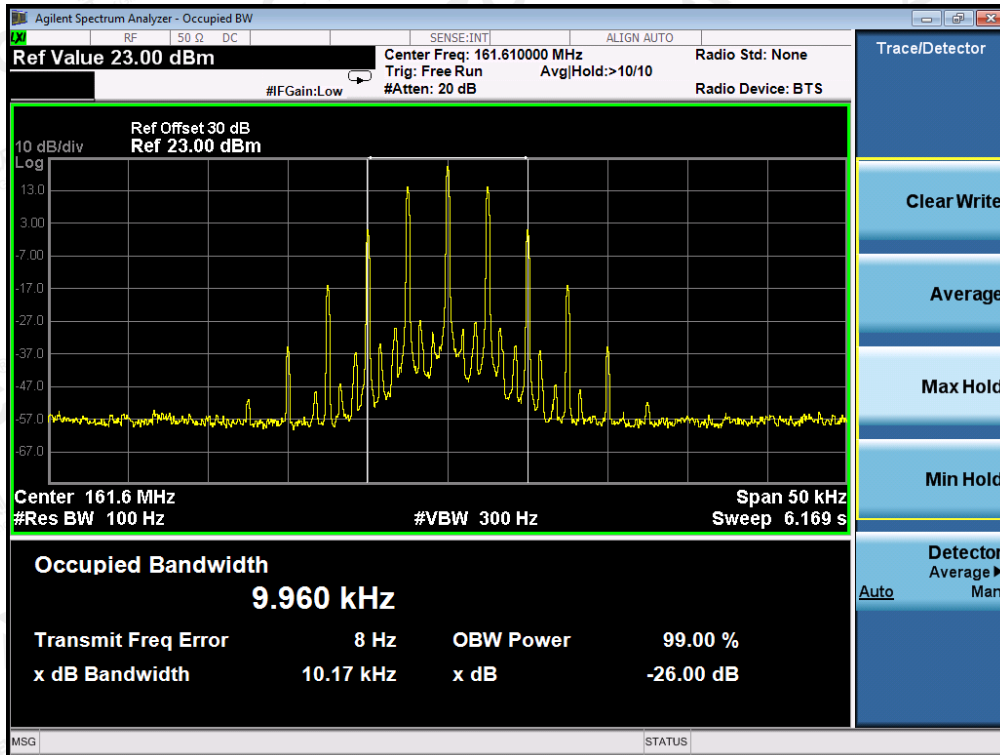


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Occupied bandwidth of Middle Channel (151.850 MHz)-0.2W

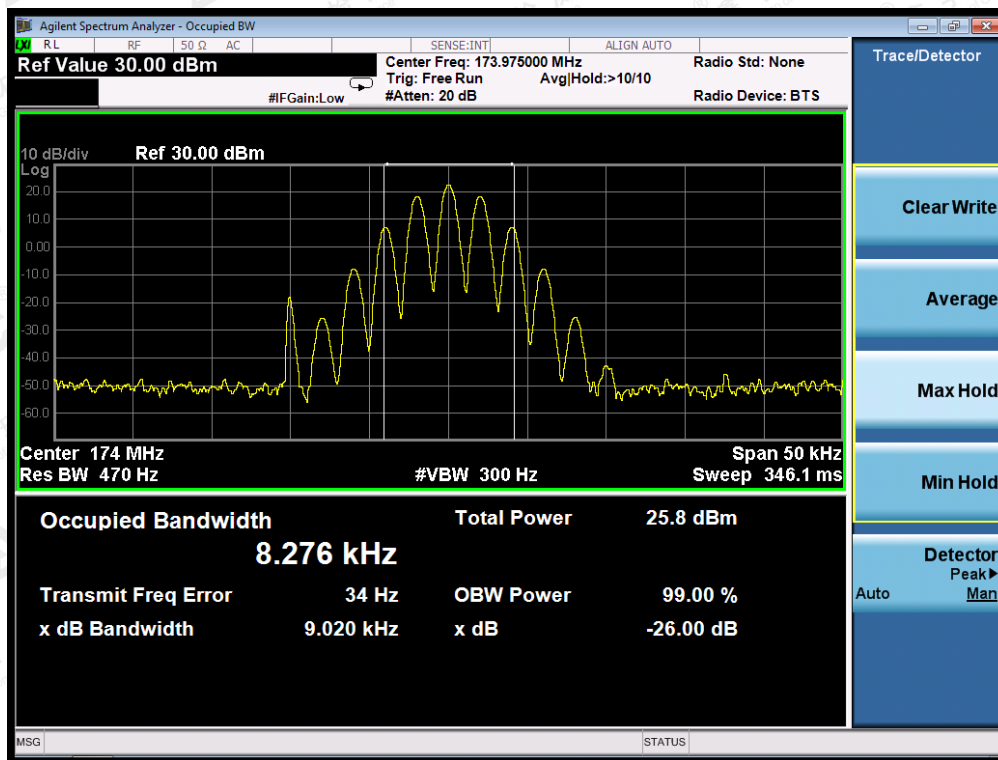


Occupied bandwidth of Middle Channel (161.610 MHz)-0.2W



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Occupied bandwidth of High Channel (Maximum)-0.2W

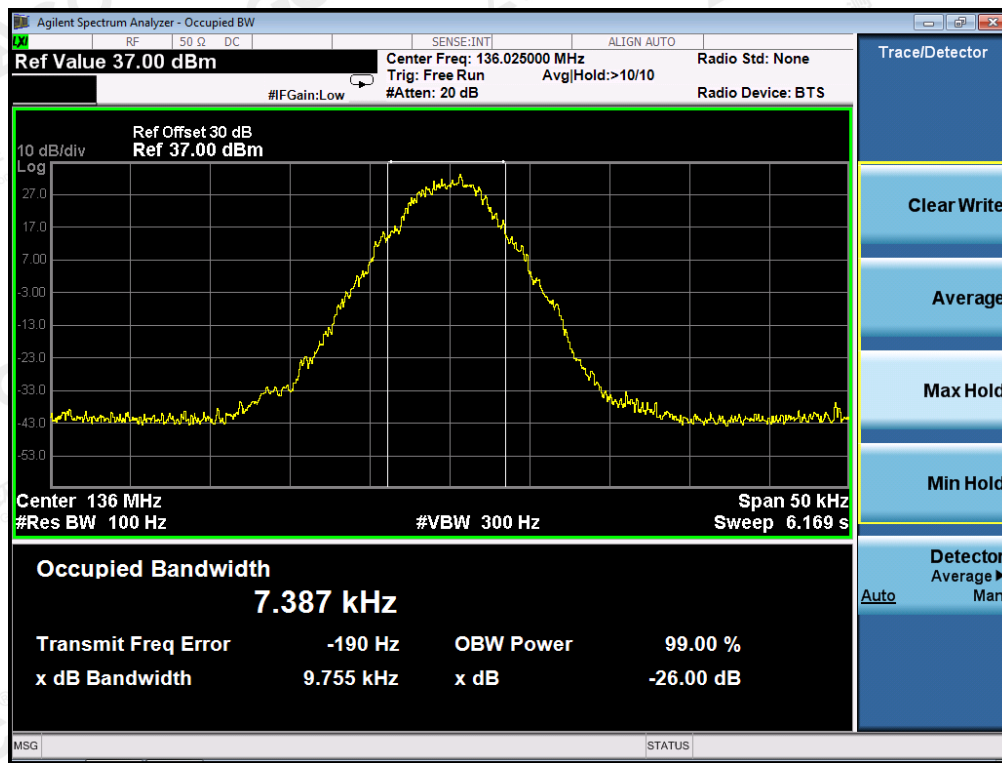


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Digital:
TEST RESULTS

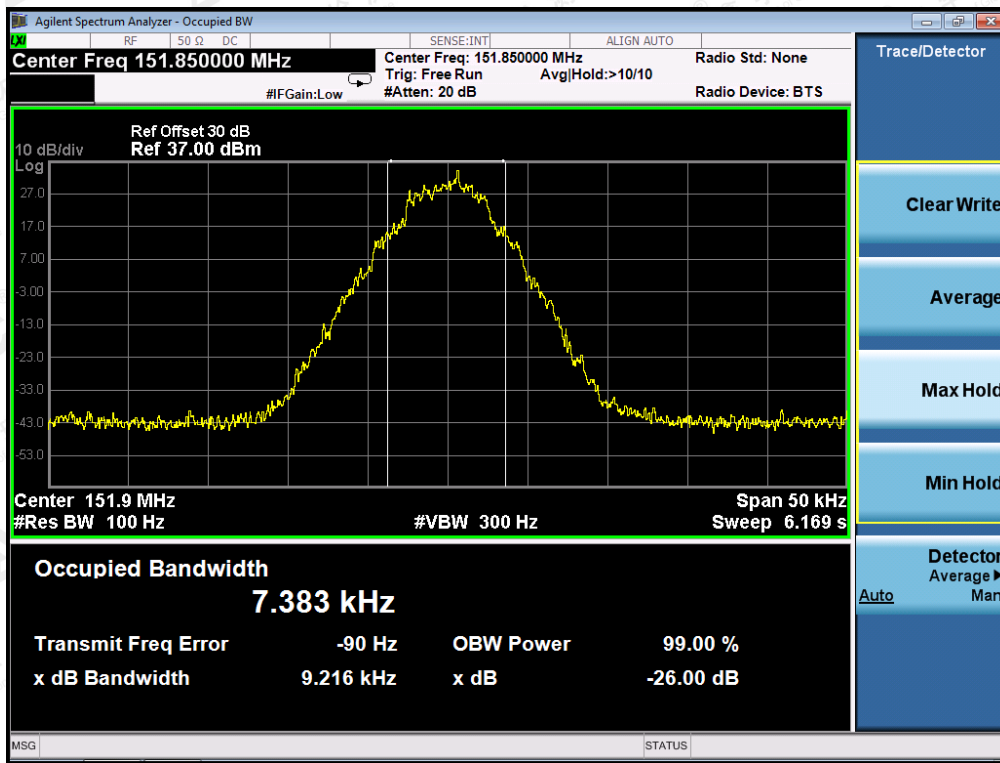
| 26 DB BANDWIDTH MEASUREMENT RESULT | | | |
|------------------------------------|-----------------------------|-----------|--------|
| Operating Frequency | 12.5 KHz Channel Separation | | |
| | Test Data | Limits | Result |
| 136.025MHz | 9.755KHz | 11.25 KHz | Pass |
| 151.850MHz | 9.216KHz | 11.25 KHz | Pass |
| 161.61MHz | 9.300KHz | 11.25 KHz | Pass |
| 173.975MHz | 9.497KHz | 11.25 KHz | Pass |

Occupied bandwidth of Bottom Channel (Maximum)-5W

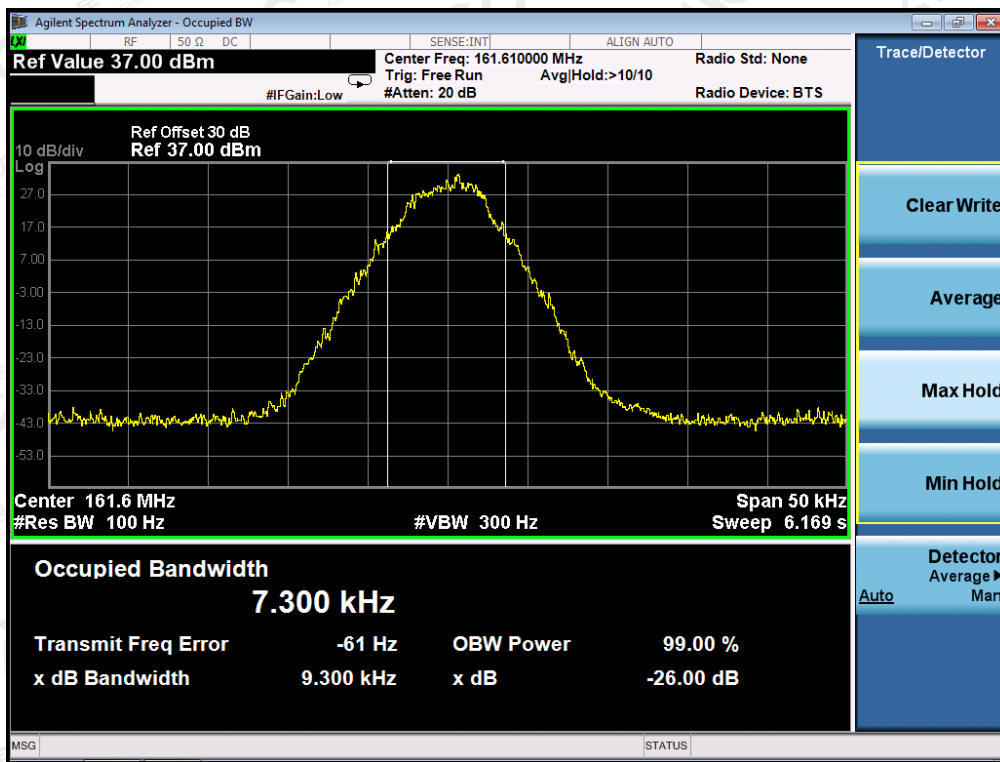


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Occupied bandwidth of Middle Channel (151.850 MHz)-5W

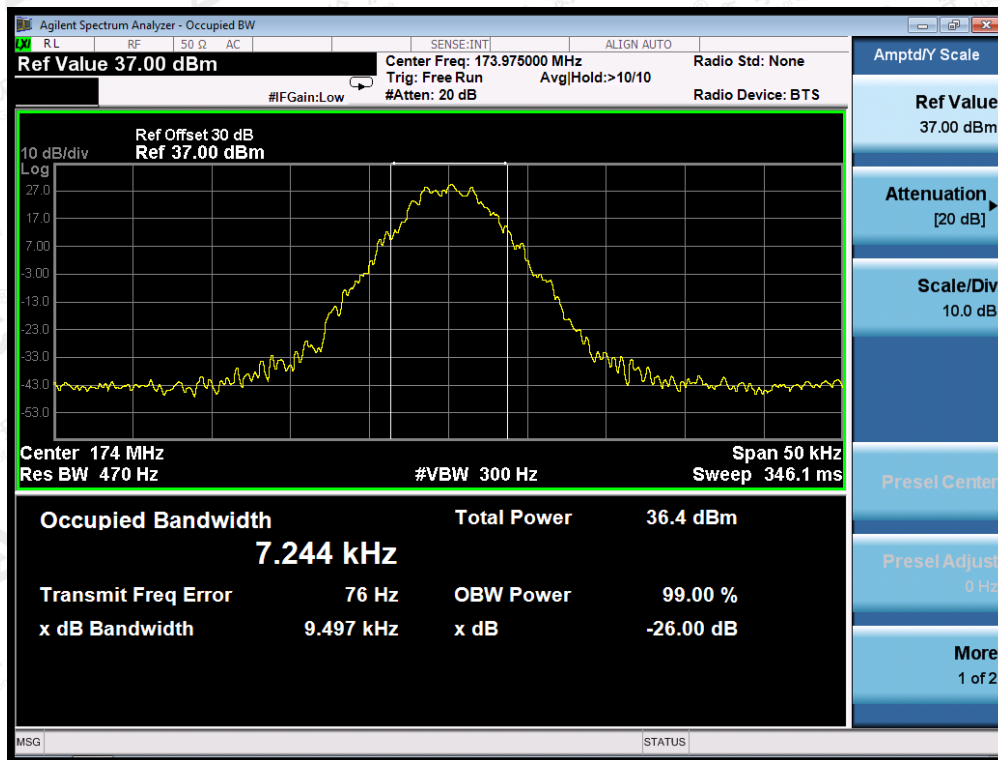


Occupied bandwidth of Middle Channel (161.610 MHz)-5W



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Occupied bandwidth of High Channel (Maximum)-5W



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