

FCC RADIO TEST REPORT

FCC ID : PKRISGM3000B

Equipment : M3000B
Brand Name : Inseego
Model Name : M3000B
Marketing Name : M3000

Applicant : Inseego Corp.

9710 Scranton Road Suite 200, San Diego,, CA 92121

Manufacturer : Inseego Corp.

9710 Scranton Road Suite 200, San Diego,, CA 92121

Standard : FCC 47 CFR Part 2, 96

The product was received on Sep. 29, 2022 and testing was performed from Oct. 02, 2022 to Oct. 19, 2022. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International (USA) Inc., the test report shall not be reproduced except in full.

Approved by: Lance Tang

Lance langs

Sporton International (USA) Inc.

1175 Montague Expressway, Milpitas, CA 95035

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Report No. : FG211223001B

History of this test report

| Report No. | Version | Description | Issue Date |
|--------------|---------|-------------------------|---------------|
| FG211223001B | 01 | Initial issue of report | Oct. 06, 2022 |
| FG211223001B | 02 | Update SISO mode power | Oct. 20, 2022 |
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Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|------------------|--------------------|------------------------------------|-----------------------|--------|
| 3.2 | §2.1046 | Conducted Output Power | Reporting only | - |
| 3.3 | §96.41 | Effective Isotropic Radiated Power | Pass | - |
| 3.4 | §2.1049 §96.41 | Occupied Bandwidth | Reporting only | - |
| 3.5 | §2.1051 §96.41 | Conducted Band Edge Measurement | Pass | - |
| 3.6 | §2.1051 §96.41 | Conducted Spurious Emission | Pass | - |

Conformity Assessment Condition:

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

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1 General Description

1.1 Product Feature of Equipment Under Test

3G-WCDMA, 4G-LTE, 5G-FR1, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, and GNSS

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|--|--|--|--|--|--|--|--|--|--|
| Product Feature | | | | | | | | | |
| | WWAN: Internal Antenna | | | | | | | | |
| Antenna Type | WLAN <ant. 0="">: Internal Antenna</ant.> | | | | | | | | |
| " | <ant. 1="">: Internal Antenna</ant.> | | | | | | | | |
| | GPS / Glonass / BDS / Galileo : Internal Antenna | | | | | | | | |
| | 5G NR n48 | | | | | | | | |
| Antenna Gain | <ant. 4="">:</ant.> 1.5 dBi | | | | | | | | |
| | <ant. 6="">:</ant.> 3.8 dBi | | | | | | | | |

Remark: The EUT's information above was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

1.3 Testing Location

| Test Site | Sporton International (USA) Inc. |
|--------------------|--|
| Test Site Location | 1175 Montague Expressway, Milpitas, CA 95035 TEL: 408 9043300 |
| Took Cita No | Sporton Site No. |
| Test Site No. | TH01-CA |
| Test Engineer | Venkata Kondepudi |
| Temperature | 22~24°C |
| Relative Humidity | 48.7~52.2% |

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1.4 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

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- + ANSI C63.26-2015
- ANSI / TIA-603-E
- FCC 47 CFR Part 2, 96
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

| Tarthama | B1 | Bar | ndwid | th (M | Hz) | | | Modula | tion | | RB# | | | Test Channel | | |
|-----------------------------------|--|-----|-------|-------|-----|--------------|------|--------|-------|--------|----------|------|--------|-----------------|---|---|
| Test Items | Band | 10 | 20 | 30 | 40 | PI/2 BPSK | QPSK | 16QAM | 64QAM | 256QAM | 1 | Half | Full | L | М | Н |
| Max. Output Power | n48 | | | v | v | v | v | v | v | v | v | v | v | ٧ | ٧ | v |
| 26dB and 99% Bandwidth | n48 | | | v | v | v | ٧ | V | v | v | | | ٧ | | > | |
| Conducted Band Edge | n48 | | | v | v | v | v | v | v | v | ٧ | | v | v | ٧ | v |
| Conducted Spurious Emission | n48 | | | v | v | | v | | | | > | | | ٧ | > | v |
| E.I.R.P | n48 | | | v | v | v | v | v | v | v | | ı | Max. F | owe | • | |
| Remark | The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. This test report merely covers conducted test for bandwidths 30MHz and 40MHz, while the rest of the bandwidths supported and missing test items are covered by another report issued by Sporton International Inc, report No. FG1D2409G. | | | | | | | | | the | | | | | | |

2.2 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$

= 4.2 + 10 = 14.2 (dB)

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2.3 Frequency List of Low/Middle/High Channels

| | 5G NR n48 Channel and Frequency List | | | | | | | | | | | |
|----------|--------------------------------------|---------|---------|---------|--|--|--|--|--|--|--|--|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest | | | | | | | | |
| 40 | Channel | 638000 | 641666 | 645332 | | | | | | | | |
| 40 | Frequency | 3570 | 3624.99 | 3679.98 | | | | | | | | |
| 20 | Channel | 637668 | 641666 | 645666 | | | | | | | | |
| 30 | Frequency | 3565.02 | 3624.99 | 3684.99 | | | | | | | | |

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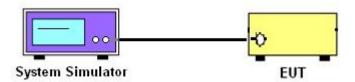
3 Conducted Test Items

3.1 Measuring Instruments

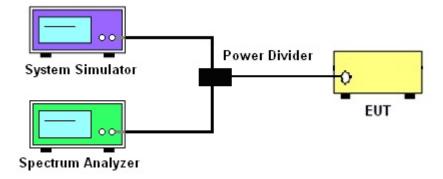
See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Occupied Bandwidth, Conducted Band Edge and Conducted Spurious Emission



3.1.4 Test Result of Conducted Test

Please refer to Appendix A.

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3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.2.2 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through the system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

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3.3 EIRP

3.3.1 Description of the EIRP Measurement

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for 5G NR n48.

The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

EIRP = PT + GT - LC, where

PT = transmitter output power in dBm

GT = gain of the transmitting antenna in dBi

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

| Device | Maximum EIRP | Maximum PSD | | |
|-----------------|--------------|-------------|--|--|
| Devide | (dBm/10 MHz) | (dBm/MHz) | | |
| End User Device | 23 | n/a | | |

Remark:

- 1. Total channel power is complied with EIRP limit 23dBm/10MHz.
- 2. The MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.

3.3.2 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

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3.4 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
 The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- 3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- 4. Set the detection mode to peak, and the trace mode to max hold.
- Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
 (this is the reference value)
- 6. Determine the "-26 dB down amplitude" as equal to (Reference Value X).
- 7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- 8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

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3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The band edges of low and high channels for the highest RF powers were measured.
- 3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- 4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
- 5. Set spectrum analyzer with RMS detector.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. For MIMO mode, add additional MIMO factor 10log(NTX=2) = 3.01dB into the spectrum analyzer offset.

For Adjacent Channel Leakage Ratio (ACLR) measurement,

- 1. The Adjacent Channel Leakage Ratio (ACLR) is the ratio of the average power in the assigned aggregated channel bandwidth to the average power over the equivalent adjacent channel bandwidth.
- 2. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
- 3. The measured ACLR ratio shall be at least 30 dB.

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3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
- 6. Set spectrum analyzer with RMS detector.
- 7. Taking the record of maximum spurious emission.
- 8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 9. The limit line is -40dBm/MHz.
- 10. For MIMO mode, add additional MIMO factor 10log(NTX=2) = 3.01dB into the spectrum analyzer offset.

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4 List of Measuring Equipment

| Instrument | Instrument Brand Name Model No. | | Serial No. | Characteristics Calibration Date | | Test Date | Due Date | Remark |
|--|---------------------------------|---------|------------|----------------------------------|---------------|---------------------------------|---------------|------------------------|
| Hygrometer | Testo | 608-H1 | 45141354 | N/A | Jul. 27, 2022 | Oct. 02, 2022~ Oct. 19, 2022 | Jul. 26, 2023 | Conducted (TH01-CA) |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 101545 | 10Hz-40GHz | May 31, 2022 | Oct. 02, 2022~ Oct. 19, 2022 | May 30, 2023 | Conducted (TH01-CA) |
| Radio Communication Test Station | Anritsu | MT8000A | 6262208375 | N/A | Jun. 08, 2022 | Oct. 02, 2022~ Oct. 19, 2022 | Jun. 07, 2023 | Conducted (TH01-CA) |

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and EIRP

<SISO Mode>

| | | NR n48 M | aximum Avei | rage Powe | r [dBm] (G | T - LC = 1. | 5 dB) | | |
|----------|---------|-----------|-------------|-----------|------------|-------------|------------|---------|--|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | EIRP (dBm) | EIRP(W) | |
| 30 | 1 | 1 | | 13.40 | 21.30 | 15.16 | | | |
| 30 | 1 | 76 | | 13.20 | 21.28 | 15.02 | | | |
| 30 | 36 | 18 | PI/2 BPSK | 13.29 | 21.34 | 15.18 | | | |
| 30 | 1 | 0 | FIIZ BF3K | 13.33 | 20.78 | 15.17 | | | |
| 30 | 1 | 77 | | 13.22 | 20.75 | 15.10 | 22.85 | 0.1928 | |
| 30 | 75 | 0 | | 13.26 | 20.89 | 15.16 | | | |
| 30 | 1 | 1 | | 13.42 | 21.25 | 15.11 | | | |
| 30 | 1 | 76 | | 13.23 | 21.20 | 15.11 | | | |
| 30 | 36 | 18 | QPSK | 13.21 | 21.35 | 15.16 | | | |
| 30 | 1 | 0 | QFSK | 13.42 | 20.24 | 15.15 | | | |
| 30 | 1 | 77 | | 13.23 | 20.26 | 15.09 | | | |
| 30 | 75 | 0 | | 13.29 | 20.32 | 15.19 | | | |
| 30 | 1 | 1 | 16-QAM | 13.39 | 20.37 | 14.99 | | | |
| 30 | 1 | 1 | 64-QAM | 14.36 | 18.64 | 14.98 | 21.87 | 0.1538 | |
| 30 | 1 | 1 | 256-QAM | 14.09 | 16.47 | 15.02 | | , | |
| Limit | EIRF | < 23dBm/ | 10MHz | | Result | _ | Pa | iss | |

| | | NR n48 M | aximum Avei | rage Powe | r [dBm] (G | T - LC = 1. | 5 dB) | | |
|----------|---------|------------|-------------|-----------|------------|-------------|------------|---------|--|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | EIRP (dBm) | EIRP(W) | |
| 40 | 1 | 1 | | 13.34 | 21.24 | 14.30 | | | |
| 40 | 1 | 104 | | 13.35 | 21.36 | 14.30 | | | |
| 40 | 50 | 25 | PI/2 BPSK | 13.25 | 21.41 | 14.20 | | | |
| 40 | 1 | 0 | | 13.33 | 20.81 | 14.25 | | | |
| 40 | 1 | 105 | | 13.32 | 20.81 | 14.26 | 22.91 | 0.1954 | |
| 40 | 100 | 0 | | 13.31 | 20.86 | 14.21 | | | |
| 40 | 1 | 1 | | 13.36 | 21.29 | 15.16 | | | |
| 40 | 1 | 104 | | 13.38 | 21.33 | 14.28 | | | |
| 40 | 50 | 25 | QPSK | 13.31 | 21.36 | 14.23 | | | |
| 40 | 1 | 0 | QFSK | 13.38 | 20.33 | 14.31 | | | |
| 40 | 1 | 105 | | 13.35 | 20.35 | 15.18 | | | |
| 40 | 100 | 0 | | 13.26 | 20.40 | 15.12 | | | |
| 40 | 1 | 1 | 16-QAM | 13.38 | 20.25 | 14.28 | | | |
| 40 | 1 | 1 | 64-QAM | 14.44 | 18.79 | 14.03 | 21.75 | 0.1496 | |
| 40 | 1 | 1 | 256-QAM | 14.18 | 16.52 | 13.97 | | | |
| Limit | EIR | o < 23dBm/ | 10MHz | | Result | | Pa | ISS | |

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

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<MIMO Mode>

AND A LAN

| -1011101 | VINITALO TATORES | | | | | | | | | | | | | |
|----------|------------------|---------|---------|---------|---------|---------|---------|---------|----------|-----------|--------|---------|-------|--------|
| | | | Part | 96 NR n | 48 Maxi | mum A | erage F | ower [d | IBm], DO | 3 = 3.8 c | lBi | | | |
| BW | RB | RB | Mod | Α | ntenna | 4 | Α | ntenna | 6 | (| Combin | е | EIRP | EIRP |
| (MHz) | Size | Offset | IVIOU | Lowest | Middle | Highest | Lowest | Middle | Highest | Lowest | Middle | Highest | (dBm) | (W) |
| 30 | 1 | 1 | QPSK | 8.86 | 12.88 | 11.38 | 9.69 | 13.28 | 11.75 | 12.31 | 16.09 | 14.58 | | |
| 30 | 1 | 76 | | 9.13 | 13.09 | 11.31 | 9.53 | 13.27 | 11.72 | 12.34 | 16.19 | 14.53 | | |
| 30 | 39 | 19 | | 8.96 | 12.95 | 11.39 | 9.67 | 13.27 | 11.76 | 12.34 | 16.12 | 14.59 | 19.99 | 0.0998 |
| 30 | 1 | 0 | QPSK | 8.80 | 11.38 | 11.49 | 9.62 | 11.93 | 11.94 | 12.24 | 14.67 | 14.73 | 19.99 | 0.0996 |
| 30 | 1 | 77 | | 9.02 | 11.51 | 11.34 | 9.50 | 11.76 | 11.71 | 12.28 | 14.65 | 14.54 | | |
| 30 | 78 | 0 | | 8.99 | 11.45 | 11.43 | 9.69 | 11.76 | 11.75 | 12.36 | 14.62 | 14.60 | | |
| 30 | 1 | 1 | 16-QAM | 11.11 | 12.37 | 11.35 | 11.57 | 12.89 | 11.99 | 14.36 | 15.65 | 14.69 | | |
| 30 | 1 | 1 | 64-QAM | 10.70 | 10.72 | 11.52 | 11.79 | 11.46 | 11.57 | 14.29 | 14.12 | 14.56 | 19.45 | 0.0881 |
| 30 | 1 | 1 | 256-QAM | 10.96 | 7.82 | 11.50 | 11.58 | 8.22 | 11.91 | 14.29 | 11.03 | 14.72 | | |
| Limit | EIRP · | < 23dBn | n/10MHz | | Result | | | | | | | | | ass |

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| | Part96 NR n48 Maximum Average Power [dBm], DG = 3.8 dBi | | | | | | | | | | | | | |
|-------|---|---------|---------|--------|---------------------|---------|--------|---------|---------|--------|--------|---------|-------|--------|
| BW | RB | RB | Mod | A | Antenna 4 Antenna 6 | | | Combine | | | EIRP | EIRP | | |
| (MHz) | Size | Offset | | Lowest | Middle | Highest | Lowest | Middle | Highest | Lowest | Middle | Highest | (dBm) | (W) |
| 40 | 1 | 1 | QPSK | 10.00 | 13.00 | 9.36 | 10.76 | 13.15 | 9.72 | 13.41 | 16.09 | 12.55 | 20.07 | 0.1016 |
| 40 | 1 | 104 | | 10.35 | 13.24 | 9.34 | 10.77 | 13.27 | 9.65 | 13.58 | 16.27 | 12.51 | | |
| 40 | 53 | 26 | | 10.70 | 12.94 | 9.29 | 10.06 | 13.28 | 9.73 | 13.40 | 16.12 | 12.53 | | |
| 40 | 1 | 0 | | 10.70 | 11.47 | 9.45 | 9.92 | 11.66 | 9.74 | 13.34 | 14.58 | 12.61 | | |
| 40 | 1 | 105 | | 10.40 | 11.26 | 9.36 | 11.49 | 10.80 | 9.74 | 13.99 | 14.05 | 12.56 | | |
| 40 | 106 | 0 | | 10.71 | 11.47 | 9.33 | 10.09 | 11.80 | 9.76 | 13.42 | 14.65 | 12.56 | | |
| 40 | 1 | 1 | 16-QAM | 9.66 | 12.58 | 10.31 | 8.93 | 12.74 | 10.80 | 12.32 | 15.67 | 13.57 | | |
| 40 | 1 | 1 | 64-QAM | 9.70 | 10.76 | 10.14 | 10.60 | 11.20 | 10.70 | 13.18 | 14.00 | 13.44 | 19.47 | 0.0885 |
| 40 | 1 | 1 | 256-QAM | 10.02 | 7.80 | 10.46 | 10.69 | 8.25 | 10.72 | 13.38 | 11.04 | 13.60 | 1 | |
| Limit | EIRP | < 23dBn | n/10MHz | | Result | | | | | | | | Pa | ass |

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

FR1 n48

<SISO Mode>

<Ant. 4>

26dB Bandwidth

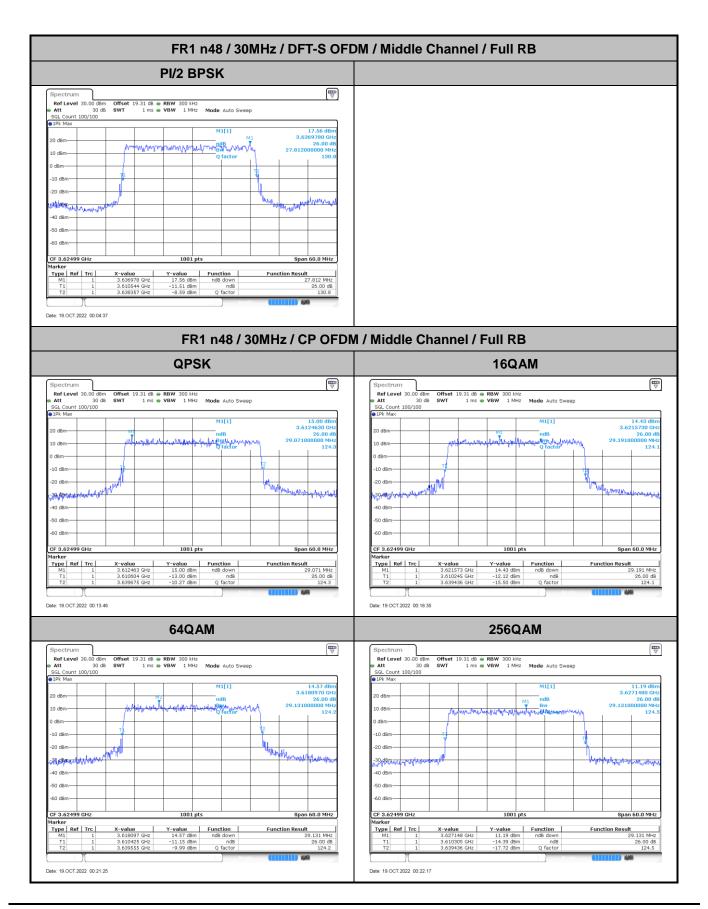
| Mode | FR1 n48 : 26dB BW(MHz) / DFT-S OFDM | | | | | | | | | | |
|-----------|-------------------------------------|-----------|--|--|--|--|--|--|--|--|--|
| BW | 30MHz | 40MHz | | | | | | | | | |
| Mod. | PI/2 BPSK | PI/2 BPSK | | | | | | | | | |
| Middle CH | 27.81 | 38.28 | | | | | | | | | |

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| Mode | | FR1 n48 : 26dB BW(MHz) / CP OFDM | | | | | | | | | | |
|-----------|-----------------|----------------------------------|-------|--------|--|--|--|--|--|--|--|--|
| BW | 30MHz | | 40MHz | | | | | | | | | |
| Mod. | Mod. QPSK 16QAM | | QPSK | 16QAM | | | | | | | | |
| Middle CH | 29.07 | 29.19 | 40.36 | 40.44 | | | | | | | | |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | | | | | | | | |
| Middle CH | 29.13 | 29.13 | 40.44 | 40.36 | | | | | | | | |

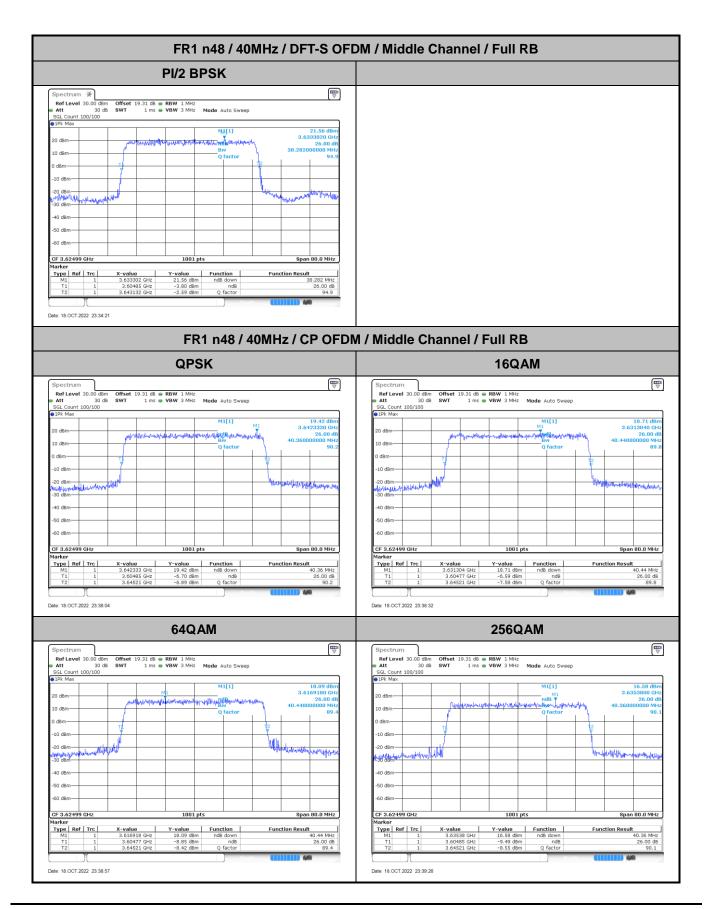
TEL: 408 9043300 Page Number: A2-1 of 72





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TEL: 408 9043300 Page Number: A2-3 of 72

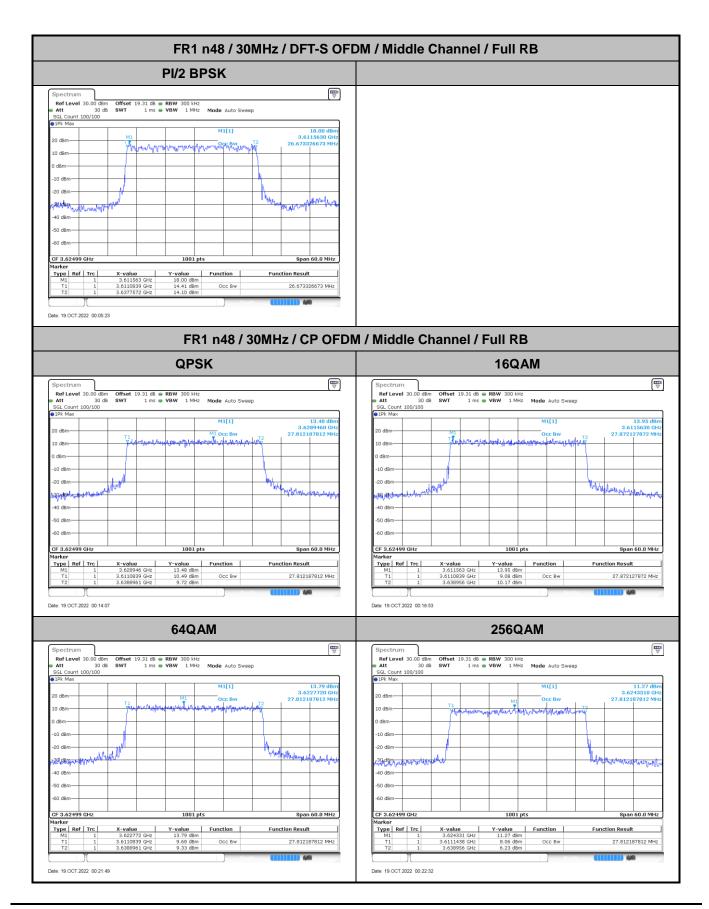
Occupied Bandwidth

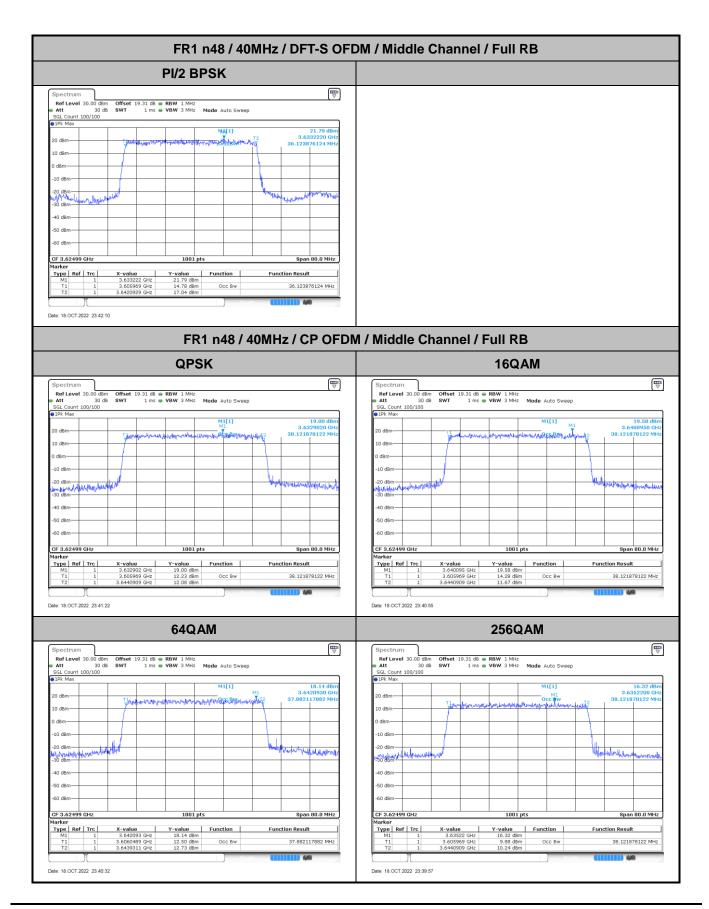
| Mode | FR1 n48 : OB BW(MHz) / DFT-S OFDM | | | | | | | | | | |
|-----------|-----------------------------------|-----------|--|--|--|--|--|--|--|--|--|
| BW | 30MHz | 40MHz | | | | | | | | | |
| Mod. | PI/2 BPSK | PI/2 BPSK | | | | | | | | | |
| Middle CH | 26.67 | 36.12 | | | | | | | | | |

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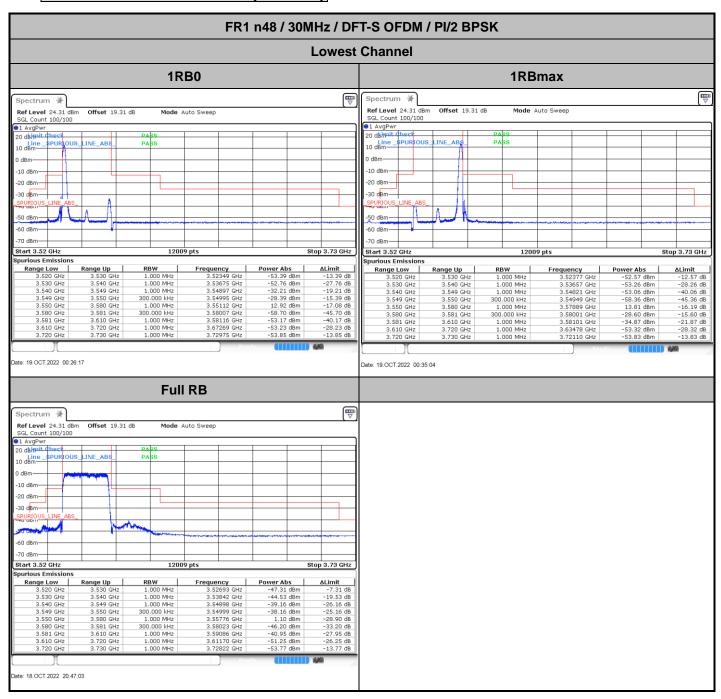
| Mode | | FR1 n48 : OB BW(MHz) / CP OFDM | | | | | | | | | | |
|-----------|-------|--------------------------------|-------|--------|--|--|--|--|--|--|--|--|
| BW | 301 | ИHz | 401 | ИHz | | | | | | | | |
| Mod. | QPSK | 16PSK | QPSK | 16QAM | | | | | | | | |
| Middle CH | 27.81 | 27.87 | 38.12 | 38.12 | | | | | | | | |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | | | | | | | | |
| Middle CH | 27.81 | 27.81 | 37.88 | 38.12 | | | | | | | | |

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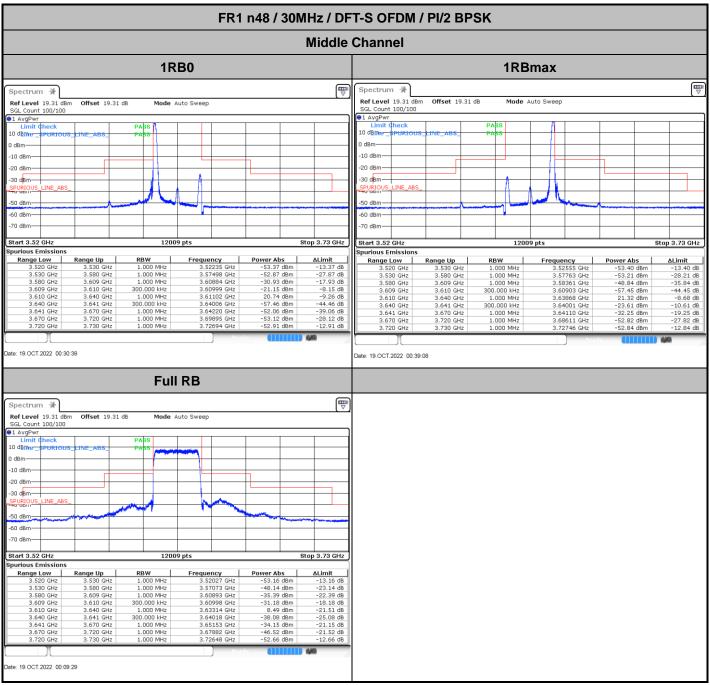




Unwanted Emission (MASK)



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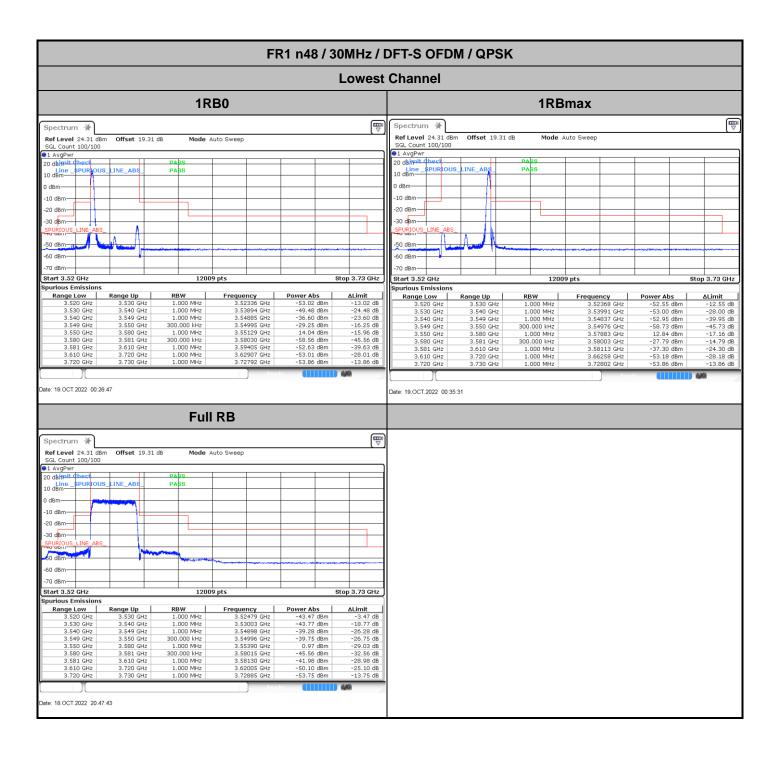
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FR1 n48 / 30MHz / DFT-S OFDM / PI/2 BPSK **Highest Channel 1RB0** 1RBmax W V Spectrum 💥 Spectrum 💥 Ref Level 19.31 dBm SGL Count 100/100 Mode Auto Sweep Ref Level 19.31 dBm Offset 19.31 dB Mode Auto Sweep SGL Count 100/100 1 AvgPwr 10 dBme 10 dBm dBm-0 dBm -10 dBm--10 dBm--20 dBm -20 dBm-30 dBm--30 dBm--50 dBm--50 dBm--60 dBm--60 dBm-70 dBm-70 dBm 12009 pts Start 3.52 GHz 12009 pts Stop 3.73 GHz Stop 3.73 GHz purious Emissions Frequency
3.52198 GHz
3.61346 GHz
3.66893 GHz
3.66996 GHz
3.70058 GHz
3.70058 GHz
3.70240 GHz
3.71384 GHz
3.72232 GHz Power Abs
-54.23 dBm
-53.13 dBm
-34.33 dBm
-25.91 dBm
14.81 dBm
-52.85 dBm
-52.87 dBm
-52.87 dBm Range Low
3.520 GHz
3.520 GHz
3.530 GHz
3.640 GHz
3.669 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.710 GHz
3.710 GHz ALimit
-14.21 dB
-28.33 dB
-38.29 dB
-45.15 dB
-14.71 dB
-14.00 dB
-21.79 dB
-26.81 dB
-12.97 dB Range Up

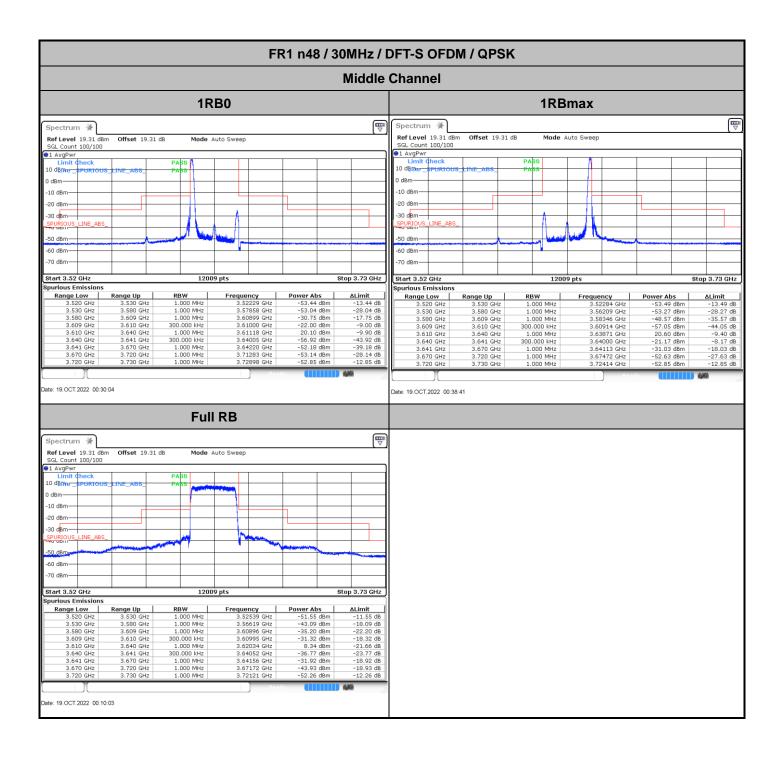
3.530 GHz
3.640 GHz
3.669 GHz
3.670 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.720 GHz
3.720 GHz
3.730 GHz Power Abs
-54.21 dBm
-53.33 dBm
-51.29 dBm
-58.15 dBm
15.29 dBm
-27.00 dBm
-34.79 dBm 3.52398 GHz 3.52398 GHz 3.63588 GHz 3.64340 GHz 3.66901 GHz 3.69880 GHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz Range Low 3.520 GHz ΔLimit Range Up 3.530 GHz -14.23 dB -28.13 dB -21.33 dB -12.91 dB -15.19 dB -45.49 dB -39.85 dB -27.81 dB -13.78 dB 3.530 GHz 3.640 GHz 3.669 GHz 3.670 GHz 3.700 GHz 3.701 GHz 3.710 GHz 3.720 GHz 3.730 GHz 1.000 MHz 300.000 kHz 1.000 MHz 300.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz 3.70002 GHz 3.70106 GHz 3.71078 GHz 3.72635 GHz -51.81 dBm -52.97 dBm ate: 19.OCT.2022 00:31:43 Date: 19.OCT.2022 00:39:45 **Full RB** Spectrum 💥 Ref Level 19.31 dBm SGL Count 100/100 Offset 19.31 dB Mode Auto Sweep ●1 AvgPwr Limit ¢l 10 dBmre dBm--10 dBm--20 dBm--30 dBm--50 dBm--60 dBm 70 dBm 12009 pts Start 3.52 GHz Stop 3.73 GHz Power Abs
-54.17 dBm
-50.86 dBm
-43.75 dBm
-36.84 dBm
3.10 dBm
-47.07 dBm
-43.85 dBm
-43.21 dBm
-47.28 dBm Range Low
3.520 GHz
3.530 GHz
3.640 GHz
3.669 GHz
3.670 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.710 GHz
3.710 GHz Range Up Frequency 3.52175 GHz
3.52175 GHz
3.62456 GHz
3.65488 GHz
3.66988 GHz
3.70011 GHz
3.70207 GHz
3.71433 GHz
3.72031 GHz

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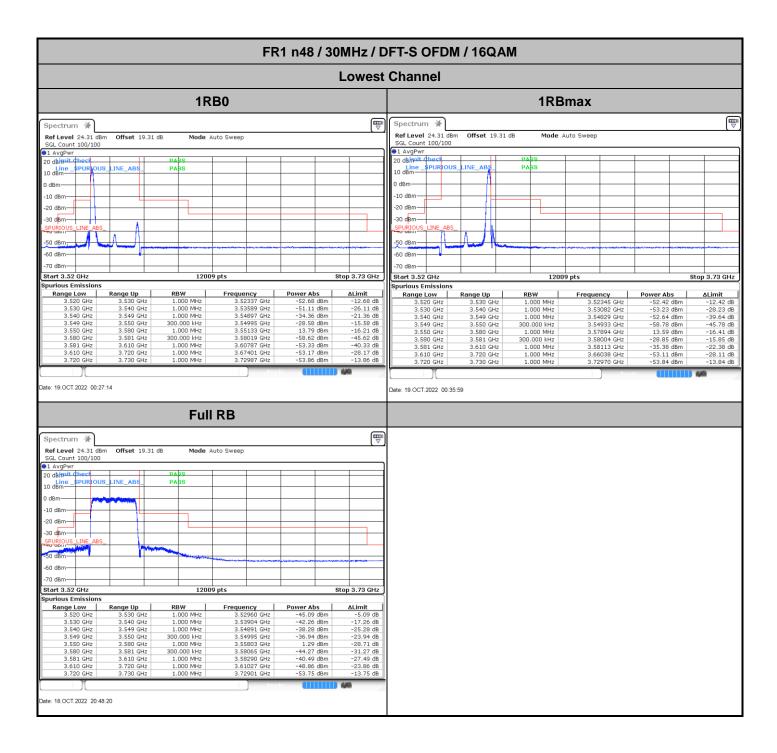
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FR1 n48 / 30MHz / DFT-S OFDM / QPSK **Highest Channel 1RB0** 1RBmax W V Spectrum 💥 Spectrum 💥 Ref Level 19.31 dBm SGL Count 100/100 Mode Auto Sweep Ref Level 19.31 dBm Offset 19.31 dB Mode Auto Sweep SGL Count 100/100 1 AvgPwr 10 dBme 10 dBm dBm-0 dBm -10 dBm--10 dBm--20 dBm -20 dBm-30 dBm--30 dBm--50 dBm--50 dBm--60 dBm -60 dBm-70 dBm-70 dBm 12009 pts Start 3.52 GHz 12009 pts Stop 3.73 GHz Stop 3.73 GHz purious Emissions 3.52717 GHz
3.63522 GHz
3.66896 GHz
3.66896 GHz
3.67115 GHz
3.70003 GHz
3.70003 GHz
3.71090 GHz
3.72707 GHz Power Abs
-54.20 dBm
-53.32 dBm
-33.66 dBm
-26.62 dBm
15.11 dBm
-57.89 dBm
-52.67 dBm
-52.83 dBm
-53.78 dBm Range Low
3.520 GHz
3.520 GHz
3.530 GHz
3.640 GHz
3.669 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.710 GHz
3.710 GHz Frequency
3.52114 GHz
3.61830 GHz
3.64355 GHZ
3.66964 GHz
3.69880 GHz
3.70004 GHz
3.70101 GHz
3.71243 GHZ Power Abs
-54.22 dBm
-53.20 dBm
-51.73 dBm
-58.10 dBm
15.55 dBm
-28.34 dBm
-31.99 dBm
-51.74 dBm
-52.83 dBm ALimit
-14.22 dB
-28.20 dB
-38.73 dB
-45.10 dB
-14.45 dB
-15.34 dB
-18.99 dB
-26.74 dB
-12.83 dB Range Up

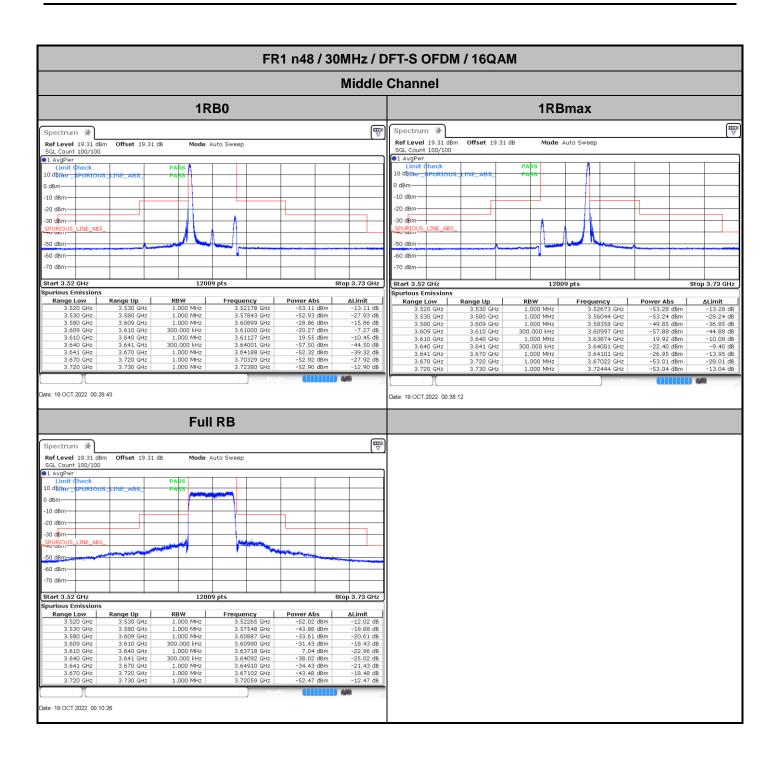
3.530 GHz
3.640 GHz
3.669 GHz
3.670 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.720 GHz
3.720 GHz
3.730 GHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz Range Low 3.520 GHz ∆Limit Range Up 3.530 GHz -14.20 dB -28.32 dB -20.66 dB -13.62 dB -14.89 dB -44.89 dB -39.67 dB -27.83 dB -13.78 dB 3.530 GHz 3.640 GHz 3.669 GHz 3.670 GHz 3.700 GHz 3.701 GHz 3.710 GHz 3.720 GHz 3.730 GHz 1.000 MHz 300.000 kHz 1.000 MHz 300.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz ate: 19.OCT.2022 00:32:08 Date: 19.OCT.2022 00:40:10 **Full RB** Spectrum 💥 Ref Level 19.31 dBm SGL Count 100/100 Offset 19.31 dB Mode Auto Sweep ●1 AvgPwr Limit ¢l PASS 10 dBmre dBm--10 dBm--20 dBm--30 dBm--50 dBm--60 dBm 70 dBm 12009 pts Start 3.52 GHz Stop 3.73 GHz Power Abs
-54.16 dBm
-47.85 dBm
-37.11 dBm
-36.46 dBm
2.71 dBm
-41.68 dBm
-44.16 dBm
-44.11 dBm
-45.65 dBm Range Low
3.520 GHz
3.530 GHz
3.640 GHz
3.669 GHz
3.670 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.710 GHz
3.710 GHz Range Up Frequency

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FR1 n48 / 30MHz / DFT-S OFDM / 16QAM **Highest Channel 1RB0** 1RBmax ₩ Spectrum 💥 Spectrum 💥 Ref Level 19.31 dBm SGL Count 100/100 Mode Auto Sweep Ref Level 19.31 dBm Offset 19.31 dB Mode Auto Sweep SGL Count 100/100 1 AvgPwr 10 dBme 10 dBm dBm-0 dBm -10 dBm--10 dBm--20 dBm -20 dBm-30 dBm--30 dBm--50 dBm--50 dBm--60 dBm--60 dBm-70 dBm-70 dBm 12009 pts Start 3.52 GHz 12009 pts Stop 3.73 GHz Stop 3.73 GHz purious Emissions 3.52815 GHz 3.63995 GHz 3.66896 GHz 3.66896 GHz 3.67118 GHz 3.70035 GHz 3.70302 GHz 3.71360 GHz 3.72767 GHz Power Abs
-54.18 dBm
-53.04 dBm
-31.80 dBm
-24.65 dBm
15.24 dBm
-58.04 dBm
-52.78 dBm
-52.97 dBm
-53.81 dBm ALimit
-14.18 dB
-28.04 dB
-18.80 dB
-11.65 dB
-14.76 dB
-45.04 dB
-39.78 dB
-27.97 dB
-13.81 dB Range Low
3.520 GHz
3.520 GHz
3.530 GHz
3.640 GHz
3.669 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.710 GHz
3.710 GHz Power Abs
-54.19 dBm
-53.18 dBm
-51.50 dBm
-58.40 dBm
16.06 dBm
-23.76 dBm
-31.42 dBm
-50.50 dBm
-52.12 dBm ALimit
-14.19 dB
-28.18 dB
-38.50 dB
-45.40 dB
-13.94 dB
-10.76 dB
-18.42 dB
-25.50 dB
-12.12 dB Range Up

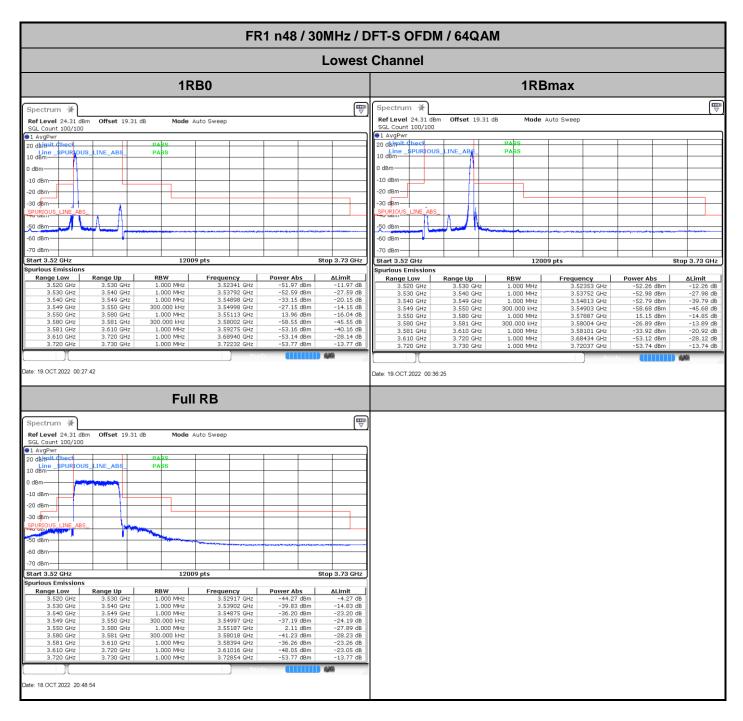
3.530 GHz
3.640 GHz
3.669 GHz
3.670 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.720 GHz
3.720 GHz
3.730 GHz 3.52396 GHz 3.52396 GHz 3.61676 GHz 3.64340 GHz 3.66945 GHz 3.70000 GHz 3.70105 GHz 3.70105 GHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz Range Low 3.520 GHz Range Up 3.530 GHz 3.530 GHz 3.640 GHz 3.669 GHz 3.670 GHz 3.700 GHz 3.701 GHz 3.710 GHz 3.720 GHz 3.730 GHz 1.000 MHz 300.000 kHz 1.000 MHz 300.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz 3.71099 GHz 3.72658 GHz ate: 19.OCT.2022 00:32:32 Date: 19.OCT.2022 00:40:35 **Full RB** Spectrum 💥 Ref Level 19.31 dBm SGL Count 100/100 Offset 19.31 dB Mode Auto Sweep ●1 AvgPwr Limit ¢l 10 dBmre dBm--10 dBm--20 dBm--30 dBm--50 dBm--60 dBm 70 dBm 12009 pts Start 3.52 GHz Stop 3.73 GHz Power Abs
-54.15 dBm
-47.13 dBm
-39.61 dBm
-35.60 dBm
2.99 dBm
-42.35 dBm
-38.04 dBm
-41.85 dBm
-45.89 dBm Range Low
3.520 GHz
3.530 GHz
3.640 GHz
3.669 GHz
3.670 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.710 GHz
3.710 GHz Range Up Frequency

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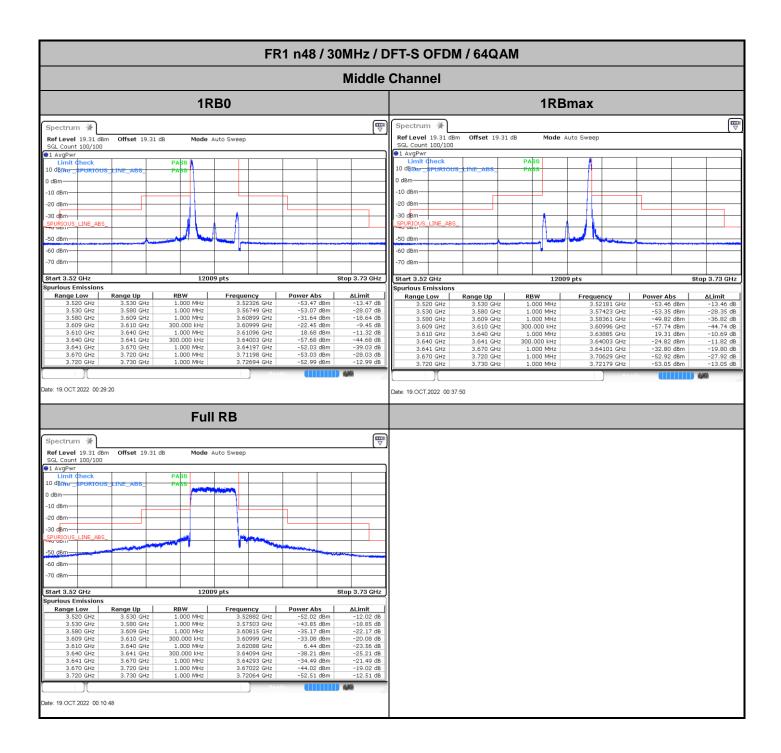
3.720 GHz 3.720 GHz 1.000 MHz 3.72047 GHz -45.69 db -5.69 db -5.69

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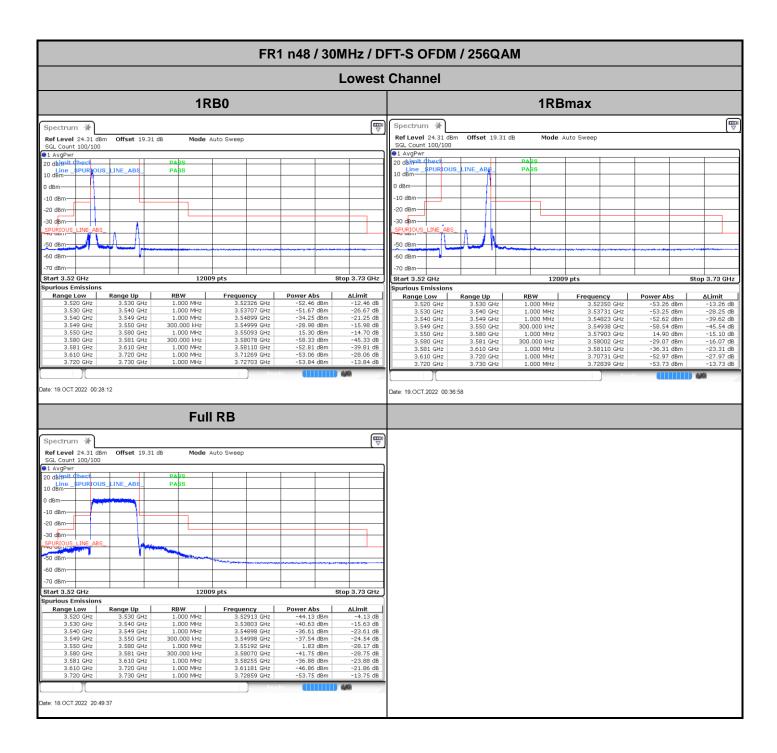
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FR1 n48 / 30MHz / DFT-S OFDM / 64QAM **Highest Channel 1RB0** 1RBmax ₩ Spectrum 💥 Spectrum 💥 Ref Level 19.31 dBm SGL Count 100/100 Mode Auto Sweep Ref Level 19.31 dBm Offset 19.31 dB Mode Auto Sweep SGL Count 100/100 1 AvgPwr 10 dBme 10 dBm dBm-0 dBm -10 dBm--10 dBm--20 dBm -20 dBm-30 dBm--30 dBm--50 dBm--50 dBm--60 dBm--60 dBm-70 dBm-70 dBm 12009 pts Start 3.52 GHz 12009 pts Stop 3.73 GHz Stop 3.73 GHz purious Emissions 7842 GHz 3.52802 GHz 3.57412 GHz 3.66875 GHz 3.66899 GHz 3.70025 GHz 3.70025 GHz 3.7013 GHz 3.71263 GHz 3.72733 GHz Power Abs
-54.17 dBm
-53.38 dBm
-35.11 dBm
-25.96 dBm
15.61 dBm
-58.10 dBm
-52.71 dBm
-52.92 dBm
-53.78 dBm Range Low
3.520 GHz
3.520 GHz
3.530 GHz
3.640 GHz
3.669 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.710 GHz
3.710 GHz ALimit
-14.21 dB
-28.31 dB
-39.06 dB
-45.33 dB
-14.73 dB
-14.49 dB
-20.94 dB
-26.91 dB
-12.86 dB Range Up

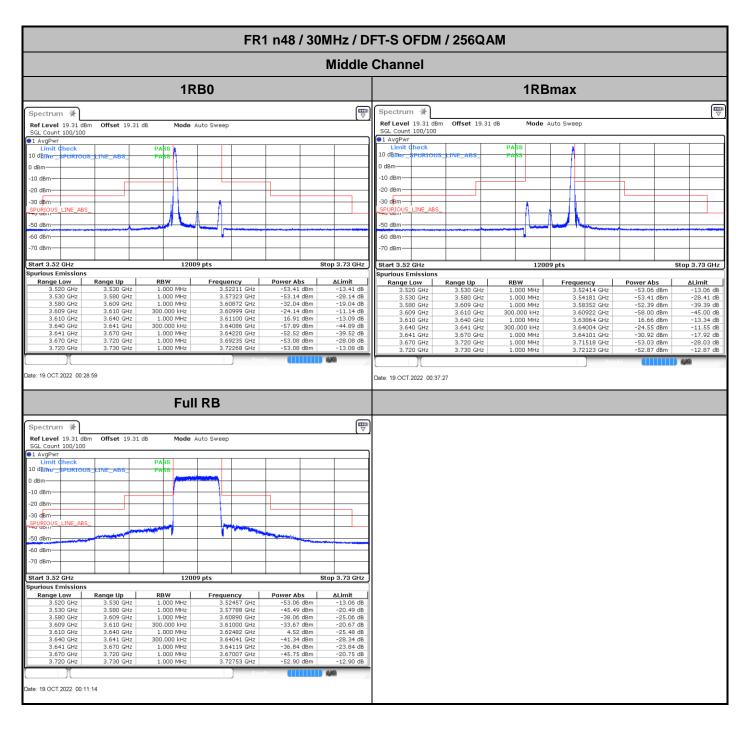
3.530 GHz
3.640 GHz
3.669 GHz
3.670 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.720 GHz
3.720 GHz
3.730 GHz Frequency
3.52491 GHz
3.52491 GHz
3.54852 GHz
3.64378 GHz
3.66994 GHz
3.69871 GHz
3.70003 GHz
3.70113 GHz
3.71093 GHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz Range Low 3.520 GHz ΔLimit Range Up 3.530 GHz Power Abs -54.21 dBm -14.17 dB -28.38 dB -22.11 dB -12.96 dB -14.39 dB -45.10 dB -39.71 dB -27.92 dB -13.78 dB 3.530 GHz 3.640 GHz 3.669 GHz 3.670 GHz 3.700 GHz 3.701 GHz 3.710 GHz 3.720 GHz 3.730 GHz -54.21 dBm -53.31 dBm -52.06 dBm -58.33 dBm 15.27 dBm -27.49 dBm -33.94 dBm 1.000 MHz 300.000 kHz 1.000 MHz 300.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz 3.71093 GHz 3.72652 GHz -51.91 dBm -52.86 dBm ate: 19.OCT.2022 00:33:08 Date: 19.OCT.2022 00:40:59 **Full RB** Spectrum 💥 Ref Level 19.31 dBm SGL Count 100/100 Offset 19.31 dB Mode Auto Sweep ●1 AvgPwr Limit ¢l 10 dBmre dBm--10 dBm--20 dBm--30 dBm--50 dBm--60 dBm 70 dBm 12009 pts Start 3.52 GHz Stop 3.73 GHz Power Abs
-54.16 dBm
-47.42 dBm
-40.25 dBm
-39.49 dBm
3.17 dBm
-44.82 dBm
-40.83 dBm
-42.49 dBm
-45.12 dBm Range Low
3.520 GHz
3.530 GHz
3.640 GHz
3.669 GHz
3.670 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.710 GHz
3.710 GHz Range Up Frequency

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ite: 18.OCT.2022 20:52:04

FR1 n48 / 30MHz / DFT-S OFDM / 256QAM **Highest Channel 1RB0** 1RBmax ₩ Spectrum 💥 Spectrum 💥 Ref Level 19.31 dBm SGL Count 100/100 Mode Auto Sweep Ref Level 19.31 dBm Offset 19.31 dB Mode Auto Sweep SGL Count 100/100 1 AvgPwr 10 dBme 10 dBm dBm-0 dBm -10 dBm--10 dBm--20 dBm -20 dBm-30 dBm--30 dBm--50 dBm--50 dBm--60 dBm--60 dBm-70 dBm-70 dBm 12009 pts Start 3.52 GHz 12009 pts Stop 3.73 GHz Stop 3.73 GHz purious Emissions 3.52469 GHz 3.58973 GHz 3.66890 GHz 3.66999 GHz 3.67111 GHz 3.70093 GHz 3.70093 GHz 3.71093 GHz 3.72712 GHz Power Abs
-54.20 dBm
-53.21 dBm
-32.96 dBm
-26.12 dBm
15.98 dBm
-58.39 dBm
-52.62 dBm
-53.03 dBm
-53.77 dBm Range Low
3.520 GHz
3.520 GHz
3.530 GHz
3.640 GHz
3.669 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.710 GHz
3.710 GHz ALimit
-14.21 dB
-28.16 dB
-39.78 dB
-45.24 dB
-14.36 dB
-16.79 dB
-20.89 dB
-26.79 dB Range Up

3.530 GHz
3.640 GHz
3.669 GHz
3.670 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.720 GHz
3.720 GHz
3.730 GHz 3.52431 GHz
3.52431 GHz
3.59423 GHz
3.66844 GHz
3.66999 GHz
3.69877 GHz
3.70001 GHz
3.70103 GHz Power Abs
-54.21 dBm
-53.16 dBm
-52.78 dBm
-58.24 dBm
15.64 dBm
-29.79 dBm
-33.89 dBm 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz Range Low 3.520 GHz ∆Limit Range Up 3.530 GHz -14.20 dB -28.21 dB -19.96 dB -13.12 dB -14.02 dB -45.39 dB -39.62 dB -28.03 dB -13.77 dB 3.530 GHz 3.640 GHz 3.669 GHz 3.670 GHz 3.700 GHz 3.701 GHz 3.710 GHz 3.720 GHz 3.730 GHz 1.000 MHz 300.000 kHz 1.000 MHz 300.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz -51.79 dBm -53.28 dBm ate: 19.OCT.2022 00:34:03 Date: 19.OCT.2022 00:42:01 **Full RB** Spectrum 💥 Ref Level 19.31 dBm SGL Count 100/100 Offset 19.31 dB Mode Auto Sweep ●1 AvgPwr Limit ¢l 10 dBmre dBm--10 dBm--20 dBm--30 dBm--50 dBm--60 dBm 70 dBm 12009 pts Start 3.52 GHz Stop 3.73 GHz Power Abs
-54.10 dBm
-47.74 dBm
-39.54 dBm
-38.38 dBm
2.67 dBm
-44.84 dBm
-40.75 dBm
-42.03 dBm
-43.95 dBm Range Low
3.520 GHz
3.530 GHz
3.640 GHz
3.669 GHz
3.670 GHz
3.700 GHz
3.701 GHz
3.710 GHz
3.710 GHz
3.710 GHz Range Up Frequency

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te: 18.OCT.2022 20:32:03

FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK **Lowest Channel 1RB0** 1RBmax ₩ Spectrum 💥 Spectrum 💥 Ref Level 19.31 dBm SGL Count 100/100 Mode Auto Sweep Ref Level 19.31 dBm Offset 19.31 dB Mode Auto Sweep SGL Count 100/100 ●1 AvgPwi 10 dBme 10 dBm dBmdBm -10 dBm--10 dBm-20 dBm -20 dBm-30 dBm -30 dBm--50 dBm--60 dBm-70 dBm Start 3.52 GHz 12009 pts Stop 3.73 GHz 12009 pts Stop 3.73 GHz purious Emissions Range Low

3.520 GHz

3.520 GHz

3.530 GHz

3.540 GHz

3.549 GHz

3.550 GHz

3.590 GHz

3.591 GHz

3.591 GHz

3.630 GHz Frequency
3.5227 GHz
3.53959 GHz
3.54998 GHz
3.54997 GHz
3.55098 GHz
3.55098 GHz
3.59043 GHz
3.70719 GHz
3.70719 GHz
3.72970 GHz Power Abs
-58.81 dBm
-56.59 dBm
-31.44 dBm
-23.42 dBm
13.41 dBm
-61.94 dBm
-58.80 dBm
-58.81 dBm
-59.54 dBm Range Low
3.520 GHz
3.520 GHz
3.520 GHz
3.540 GHz
3.549 GHz
3.550 GHz
3.590 GHz
3.590 GHz
3.591 GHz
3.630 GHz
3.720 GHz Range Up

3.530 GHz

3.540 GHz

3.549 GHz

3.550 GHz

3.590 GHz

3.630 GHz

3.720 GHz

3.730 GHz Range Up

3.530 GHz

3.540 GHz

3.549 GHz

3.550 GHz

3.590 GHz

3.591 GHz

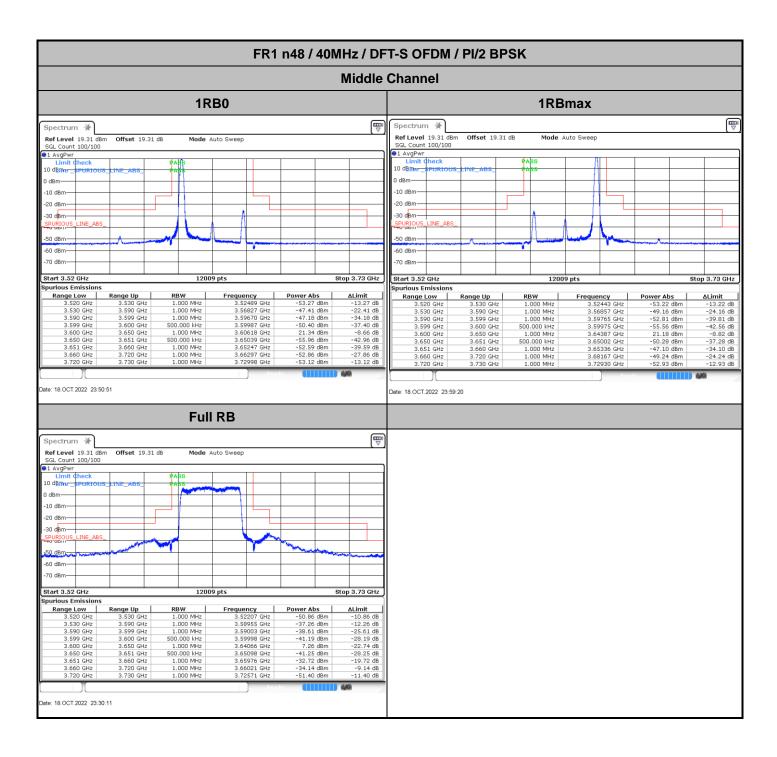
3.630 GHz

3.720 GHz

3.730 GHz 3.52611 GHz
3.52611 GHz
3.53256 GHz
3.54251 GHz
3.54953 GHz
3.58891 GHz
3.59003 GHz
3.59118 GHz Power Abs
-54.18 dBm
-53.29 dBm
-53.30 dBm
-56.50 dBm
13.24 dBm 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz ∆Limit ALimit
-14.18 dB
-28.29 dB
-40.30 dB
-43.50 dB
-16.76 dB
-13.08 dB
-23.88 dB
-28.27 dB
-13.82 dB ΔLImit
-18.81 dB
-31.59 dB
-18.44 dB
-10.42 dB
-16.59 dB
-48.94 dB
-45.80 dB
-33.81 dB
-19.54 dB 1.000 MHz 500.000 kHz 1.000 MHz 500.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz -26.08 dBm -36.88 dBm -53.27 dBm -53.82 dBm ate: 18.OCT.2022 23:44:20 Date: 18.OCT.2022 23:54:48 **Full RB** Spectrum 💥 Ref Level 19.31 dBm Offset 19.31 dB Mode Auto Sweep Count 100/100 1 AvgPwr 10 dBmre dBm--10 dBm--20 dBm-30 dBm-12009 pts Start 3.52 GHz Stop 3.73 GHz Power Abs
-48.56 dBm
-46.45 dBm
-43.57 dBm
-36.40 dBm
-0.54 dBm
-45.15 dBm
-42.85 dBm
-54.67 dBm
-59.25 dBm Durious Emissio Range Low 3.520 GHz 3.530 GHz 3.540 GHz 3.549 GHz 3.550 GHz 3.590 GHz 3.630 GHz 3.720 GHz Range Up ∆Limit Frequency

Report No.: FG211223001B

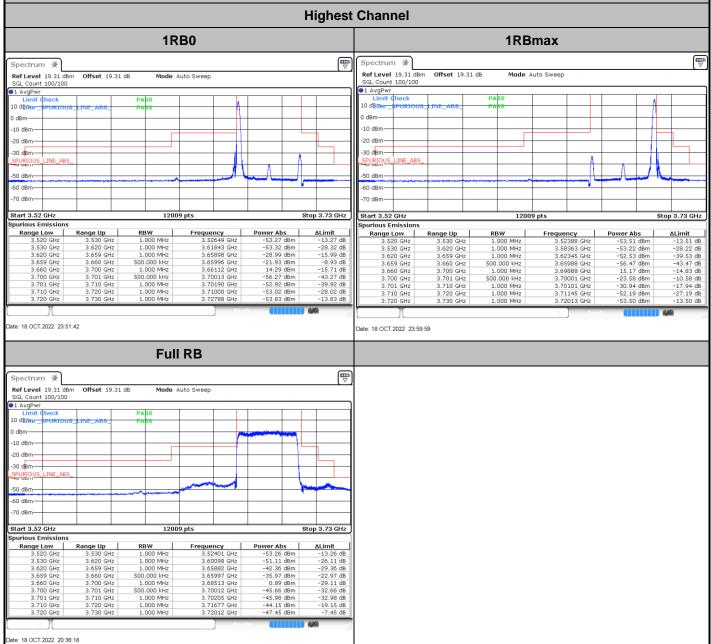
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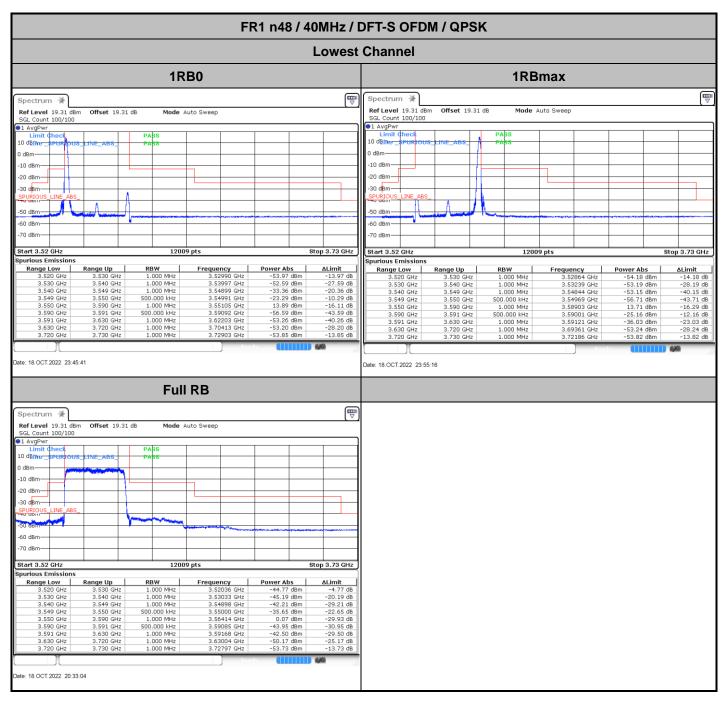
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FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

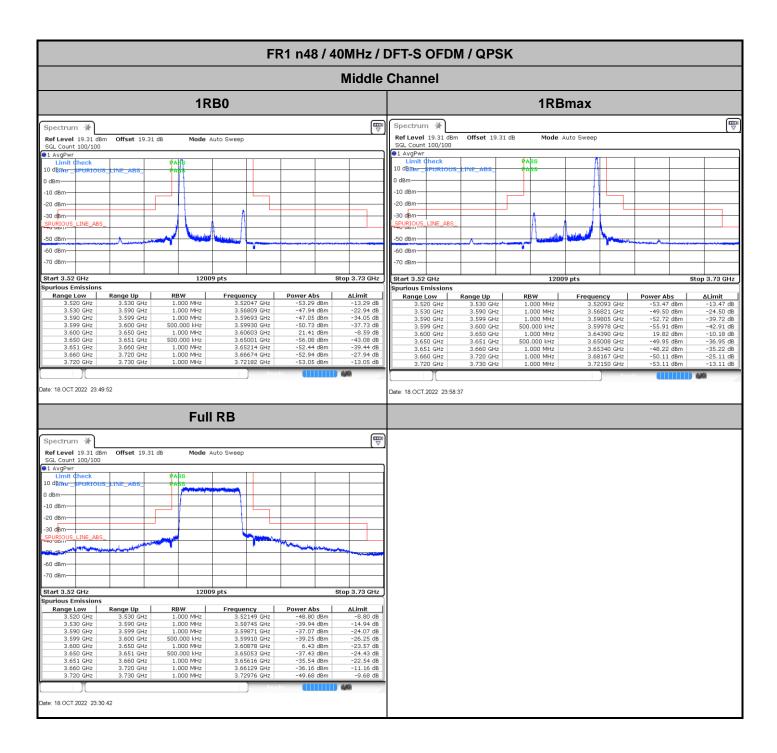
Highest Channel



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