



Timco Engineering, Inc., an IIA Company  
849 NW State Road 45, Newberry, Florida 32669  
(352) 472-5500 / testing@timcoengr.com

**Timco Test Report # TR\_3827-20\_FCC\_DTS\_2**

Revision: 2

**Issue Date:** October 29, 2020

**Final Test Date:** October 21, 2020



# Test Report- FCC PART 15.247 / DTS

## Prepared For: TANDD CORPORATION

**Approved for Release By:**

**Signature:** Bruno Clavier

**Name & Title:** Bruno Clavier, General Manager

**Date of Signature**

(YYYY-MM-DD): 2020-10-29

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## 1 Applicant Information

**Applicant:** TANDD Corporation  
**Address:** 817-1-Shimadachi  
Matsumoto City, Nagano, Japan 390-0852

**Contact:** Akemo Oana  
**Telephone:** 81-263-40-0131  
**Email address:** oana@tandd.co.jp

### 1.1 Test Result Summary

The following test procedure and guidance were used for measuring Digital Transmission System (DTS); FCC KDB 558074 D01 DTS Measurement Guidance and ANSI C63.10-2013. Full test results are available in this report.

No additions to the test methods were needed. There were no deviations, or exclusions from the test methods. No test results are from external providers or from the customer. The test results relate only to the items tested. Timco does not offer opinions and interpretations, only a pass/fail statement.



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## The Following is for Test item FCC ID: SRD10100

| FCC Clauses   | Description of the requirements  | Result<br>(Pass, Fail or<br>N/A) |
|---|--|----------------------------------|
| <b>Applicable Clauses from Part 2 or KDB</b>                |  |                                  |
| KDB 558074 D01  | Duty Cycle   |                                  |
| KDB 558074 D01  | 99 % Bandwidth   | for reporting<br>only            |
| KDB 558074 D01  | Band-edge measurements   | Pass                             |
| <b>Applicable Clauses from Part 15.247</b>                  |  |                                  |
| 15.247 (a) (1)  | FHSS (i,ii,iii)  | N/A                              |
| 15.247 (a) (2)  | 6dB Bandwidth  | Pass                             |
| 15.247 (b) (1)  | FHSS conducted output power for 2.400-2483.5 MHz                               | N/A                              |
| 15.247 (b) (2)  | FHSS conducted output power for 902-928 MHz                                    | N/A                              |
| 15.247 (b) (3)  | DTS conducted output power   | Pass                             |
| 15.247 (b) (4)  | Conducted output power >6dBi   | Pass                             |
| 15.247 (c) (1)  | Ant Gain >6dBi Fixed PtP   |                                  |
| 15.247 (c) (2)  | Ant Gain >6dBi MIMO  |                                  |
| 15.247 (d)<br>/ 15.215 (b)                                  | Spurious Emissions (Out of Band)<br>Emissions in nonrestricted frequency bands | Pass                             |
| 15.247 (e)  | Power Spectral Density (PSD)   | Pass                             |
| 15.247 (f)  | Hybrid System requirements   |                                  |
| 15.247 (g)  | FHSS System requirements   | N/A                              |
| 15.247 (h)  | FHSS spectrum sensing  | N/A                              |
| <b>Applicable Clauses from Part 2 and Part 15 Subpart C</b> |  |                                  |
| 15.203  | Antenna requirements   |                                  |
| 15.205  | Restricted bands of operation  |                                  |
| 15.207  | AC Power Conducted Emissions   | N/A                              |
| 15.209  | Radiated Emissions   |                                  |
| 15.211  | Tunnel Radio Systems   | N/A                              |
| 15.212 (a)  | Single Modular Transmitter   |                                  |
| 15.212 (b)  | Limited Modular Transmitter  |                                  |
| 15.213  | Cable Locating Equipment   | N/A                              |



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## 2 Location of Testing

### Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA").  
Testing was performed at Timco's permanent laboratory located at 849 NW State Road 45,  
Newberry, Florida 32669

FCC test firm # 578780  
FCC Designation # US1070  
FCC site registration is under A2LA certificate # 0955.01  
ISED Canada test site registration # 2056A  
EU Notified Body # 1177  
For all designations see A2LA scope # 0955.01

#### 2.1 Testing was performed, reviewed by:

**Dates of Testing:** OCT 21, 2020

**Signature:** \_\_\_\_\_

Sr. EMC Engineer  
EMC-003838-NE



**Name & Title:** Tim Royer, EMC Engineer

**Date of Signature**

(YYYY-MM-DD): 2020-10-29



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## 3 Test Sample(s) (EUT/DUT)

The test sample was received: October 21, 2020

### 3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

#### Identification

|                   |                       |
|-------------------|-----------------------|
| FCC ID:           | SRD10100              |
| Brief Description | Data Logger Base Unit |
| Type of Modular   | NA                    |
| Model(s) #        | RTR500BW, RTR500BC    |
| Trade name        | TANDD                 |
| Firmware version  | NA                    |
| Software version  | NA                    |
| Serial Number     | NA                    |

#### Technical Characteristics

|                              |                         |
|------------------------------|-------------------------|
| Technology                   | BLE                     |
| Frequency Range              | 902-928                 |
| RF O/P Power (Max.)          | 7.2 dBm, 0.005248 Watts |
| Modulation                   | FSK                     |
| Bandwidth & Emission Class   | 552.55 kHz              |
| Number of Channels           | 21                      |
| Duty Cycle                   | 10%                     |
| Antenna Type                 | External                |
| Antenna Gain (for each ant.) | 2.15 dBi                |
| Antenna Connector            | N/A                     |
| Voltage Rating (AC or Batt.) | Batt                    |

#### Antenna Characteristics

| Frequency Range | Mode / BW | Ant Gain 1 | Ant Gain 2 |
|-----------------|-----------|------------|------------|
| 902-928         |           | 2.15 dBi   |            |



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### 3.2 Configuration of EUT

#### Test Modes

| Band    | Mode | BW (nominal) | Modulation | Number of Ant. |
|---------|------|--------------|------------|----------------|
| 902-928 | 1    |              | FSK        | 1              |

| DTS | Test Frequencies          | Number of Ant. |
|-----|---------------------------|----------------|
|     | 902.94, 915.6, 927.13 MHz | 1              |

#### Operating conditions during Testing:

No modifications of the device under test (including firmware, specific software settings, and input/output signal levels to the EUT).

#### Peripherals used during Testing:

No peripherals used.

### 3.3 Test Setup of EUT

Equipment, antenna, and cable arrangement. The setup of the equipment and cable or wire placement on the test site that produces the highest radiated and the highest ac power-line conducted emissions shall be shown clearly and described. Information on the orientation of portable equipment during testing shall be included. Drawings or photographs may be used for this purpose.

Test Setups are included in the test report.



## 4 Test methods & Applicable Regulatory Limits

### Test methods/Standards/Guidance:

Test procedures and guidance for measuring Digital Transmission System (DTS) are provided in the FCC KDB 558074 D01 DTS Measurement Guidance and in Clause 11 of ANSI C63.10-2013.

- 1) ANSI C63.10-2013;
- 2) FCC KDB 558074 D01

### Limits and Regulatory Limits:

- 1) FCC CFR 47 Part 15.247

## 5 Measurement Uncertainty

| Parameter                           | Uncertainty (dB) |
|-------------------------------------|------------------|
| Conducted Emissions                 | 1.42             |
| Radiated Emissions (30 – 200 MHz)   | 5.49             |
| Radiated Emissions (200 – 1000 MHz) | 5.79             |
| Radiated Emissions (1 GHz – 18 GHz) | 4.37             |

The uncertainties provided in this table represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of K=2.

## 6 Environmental Conditions

### Temperature & Humidity

Measurements performed at the test site did not exceed the following:

|                     |             |
|---------------------|-------------|
| TEMPERATURE         | 23 C +/- 5% |
| HUMIDITY            | 55% +/- 5%  |
| BAROMETRIC PRESSURE | 30.05 inHg  |

**Note:** Specific environmental conditions that are applicable to a specific test are available in the test result section.

## 7 List of Test Equipment and Test Facility

The test equipment used identified by type, manufacturer, serial number, or other identification and the date on which the next calibration or service check is due.



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Description of the firmware or software used to operate EUT for testing purposes.

A complete list of all test equipment used shall be included with the test report. The manufacturer's model and serial numbers, and date of last calibration, and calibration interval shall be included. Measurement cable loss, measuring instrument bandwidth and detector function, video bandwidth, if appropriate, and antenna factors shall also be included where applicable.

## List of Test Equipment

| Device  | Manufacturer    | Model                         | Serial Number                                | Cal/Char Date | Due Date   |
|---|-----------------|-------------------------------|--|---------------|------------|
| Antenna: Active Loop                          | ETS-Lindgren    | 6502                          | 62529  | 12/11/2017    | 12/11/2020 |
| Antenna: Biconical 1057                       | Eaton           | 94455-1                       | 1057   | 12/13/2017    | 12/13/2020 |
| Antenna: Log-Periodic 1122                    | Electro-Metrics | LPA-25                        | 1122   | 10/26/2017    | 10/26/2020 |
| CHAMBER                                       | Panashield      | 3M                            | N/A  | 3/15/2019     | 3/15/2021  |
| EMI Test Receiver R & S ESU 40 Chamber        | Rohde & Schwarz | ESU 40                        | 100320                                       | 08/28/18      | 08/28/2021 |
| Software: Field Strength Program              | Timco           | N/A                           | Version 4.10.7.0                             | N/A           | N/A        |
| Antenna: Double-Ridged Horn/ETS Horn 2        | ETS-Lindgren    | 3117                          | 41534  | 9/1/2017      | 9/1/2020   |
| Bore-sight Antenna Positioning Tower          | Sunol Sciences  | TLT2                          | N/A  | N/A           | N/A        |
| Coaxial Cable #103 - KMKM-0180-01 Aqua        | Micro-Coax      | UFB142A-0-0720-200200         | 225363-002 (#103)                            | 4/12/2019     | 4/12/2021  |
| Coaxial Cable - Chamber 3 cable set (Primary) | Micro-Coax      | Chamber 3 cable set (Primary) | KMKM-0244-01<br>KMKM-0670-00<br>KFKF-0198-01 | 4/12/2019     | 4/12/2021  |
| Band Reject Filter 2.4 GHz                    | Micro-Tronics   | BRM50702-02                   | 0  | 4/12/2019     | 4/12/2021  |
| Pre-amp                                       | RF-LAMBDA       | RLNA00M45GA                   | N/A  | 2/27/2019     | 2/27/2021  |
| Antenna: Double-Ridged Horn 18-40 GHz         | EMCO            | 3116                          | 9011-2145                                    | 12/8/2017     | 12/8/2020  |
| Attenuator SMA 30dB 5W DC-18G                 | Pasternack      | PE7013-30                     | #23  | 11/19/2017    | 11/19/2020 |
| Test Software                                 | Rohde & Schwarz | RSCommander                   | 18e  | 17-Jun-2019   | N/A        |



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## 8 Test Results

The results of the test are usually indicated in the form of tables, spectrum analyzer plots, charts, sample calculations, as appropriate for each test procedure.

A description and/or a block diagram of the test setup is usually provided.

The measurement results, along with the appropriate limits for comparison, may be presented in tabular or graphical form. In addition, any variation in the measurement environment may be reported if applicable (e.g., a significant change of temperature that could affect the cable loss and amplifier response).

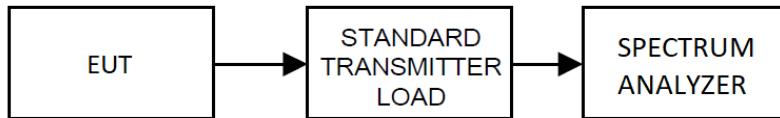
### Units of measurement

Unless noted otherwise in the referenced standard, the measurements of **ac power-line conducted emissions and conducted power output** will be reported in units of dB $\mu$ V. Unless noted otherwise in the referenced standard, the measurements of **radiated emissions** will be reported in units of decibels, referenced to one microvolt per meter (dB $\mu$ V/m) for electric fields, or to one ampere per meter (dBA/m) for magnetic fields, at the distance specified in the appropriate standards or requirements. The measurements of antenna-conducted power for receivers may be reported in units of dB $\mu$ V if the impedance of the measuring instrument is also reported. Otherwise, antenna-conducted power will be reported in units of decibels referenced to one milliwatt (dBm). All formulas for data conversions and conversion factors, if used, will be included in this measurement report.

## 8.1 99% Occupied Bandwidth

Requirement from FCC KDB 558074 D01 and test procedure from ANSI C63.10-2013 section 6.9.3

### Setup



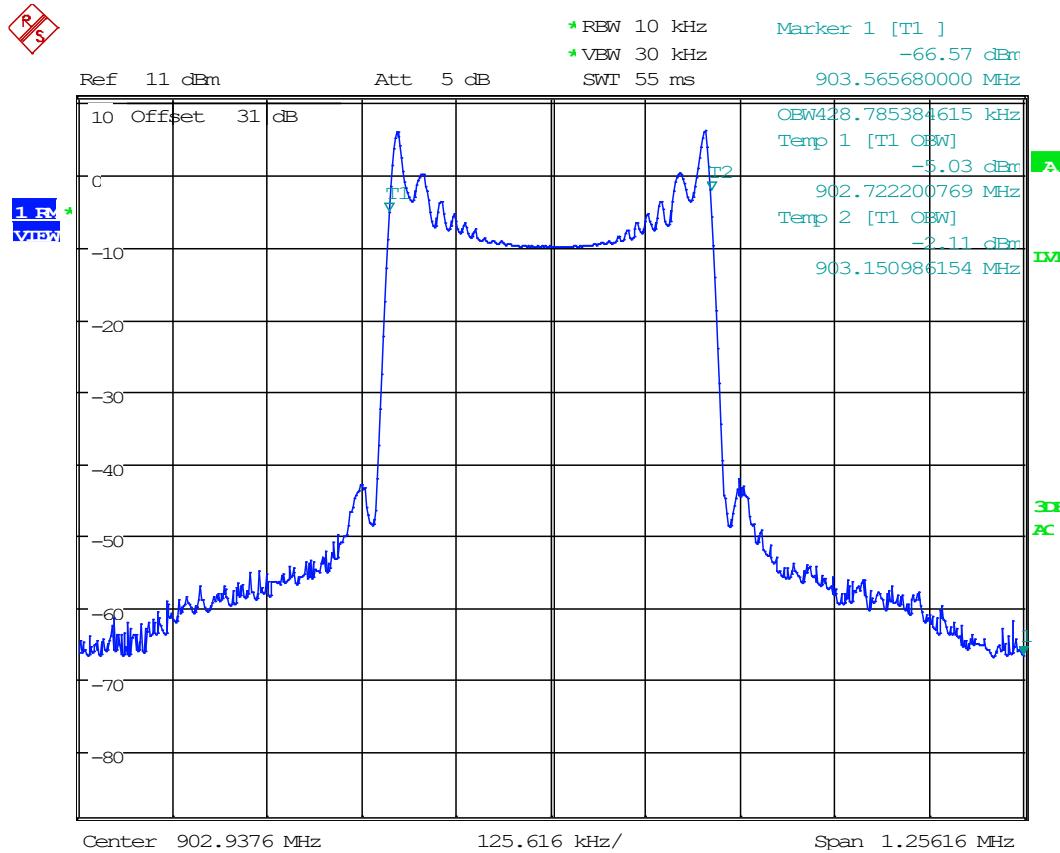
### 99% BW Test Results

| Tuned Frequency (MHz) | 99% BW (kHz) |
|-----------------------|--------------|
| 902.94                | 428.78       |
| 915.6                 | 427.32       |
| 927.13                | 426.77       |

## 99% Occupied Bandwidth Test Data / Spectrum Plots

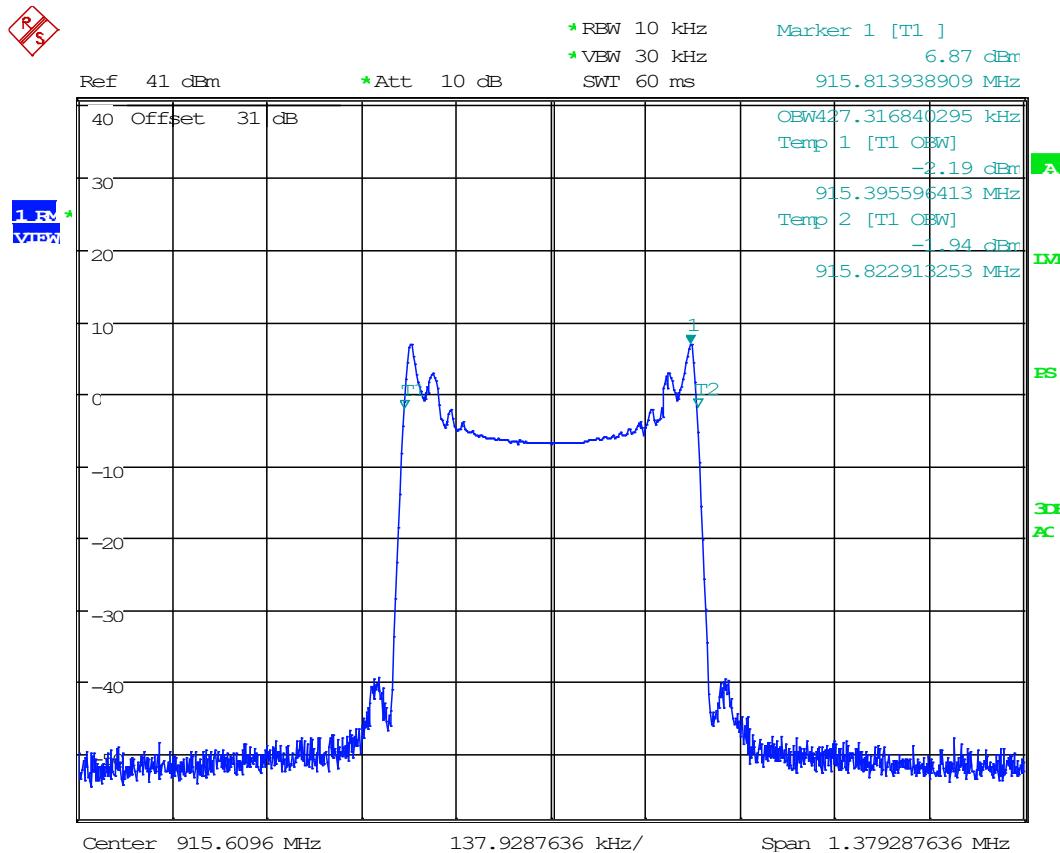
**99% BW**

**902.9376 MHz**



Date: 21.OCT.2020 12:52:09

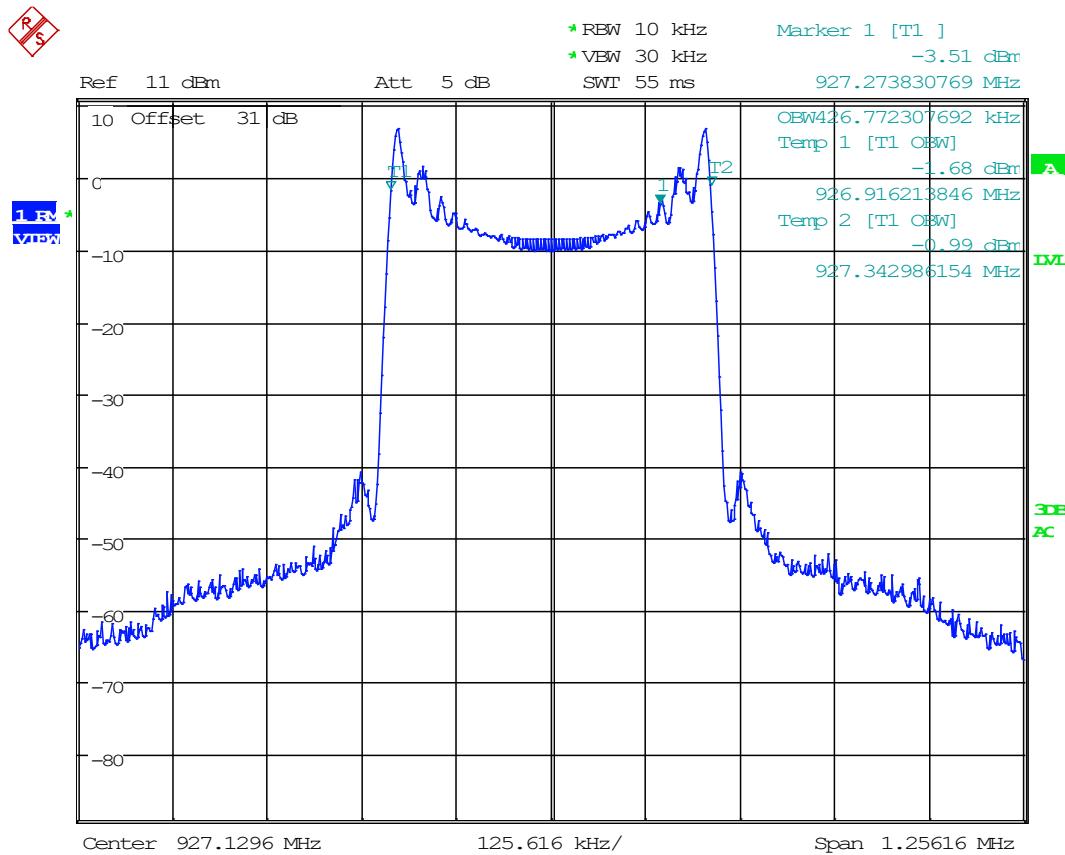
**99% BW**  
**915.6 MHz**



Date: 21.OCT.2020 12:43:22

## 99% BW

### LoRa at 927.13 MHz

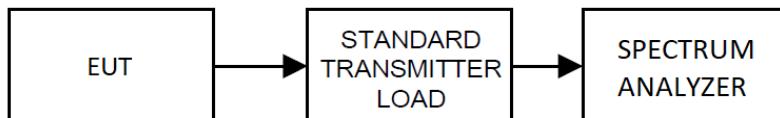


Date: 21.OCT.2020 12:51:29

## 8.2 6dB Bandwidth (DTS BW)

Limits from FCC Part 15.247 (a) (2) and test procedure from ANSI C63.10-2013 section 11.8

### Setup



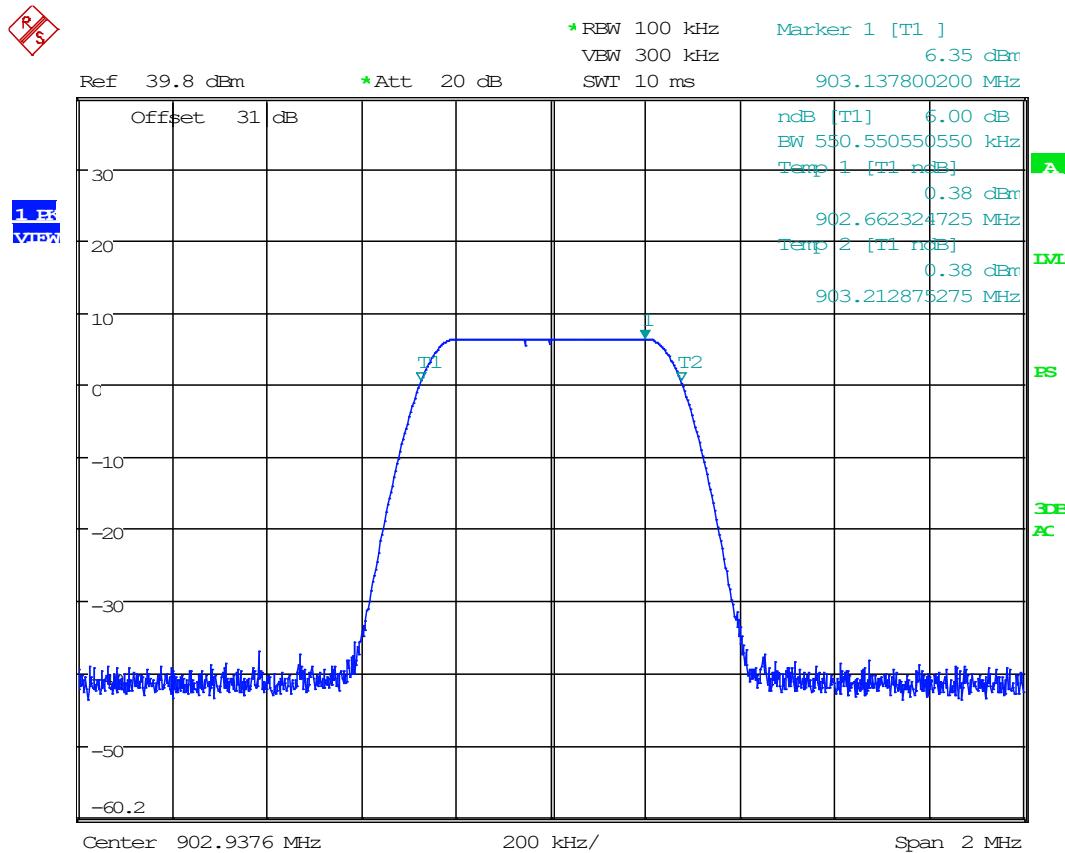
### 6dB BW Results

| Tuned Frequency (MHz) | 6dB Bandwidth (DTS BW) (kHz) |
|-----------------------|------------------------------|
| 902.94                | 550.55                       |
| 915.6                 | 550.55                       |
| 927.13                | 550.55                       |

## 6dB BW Test Data / Spectrum Plots

### 6dB Bandwidth (DTS BW)

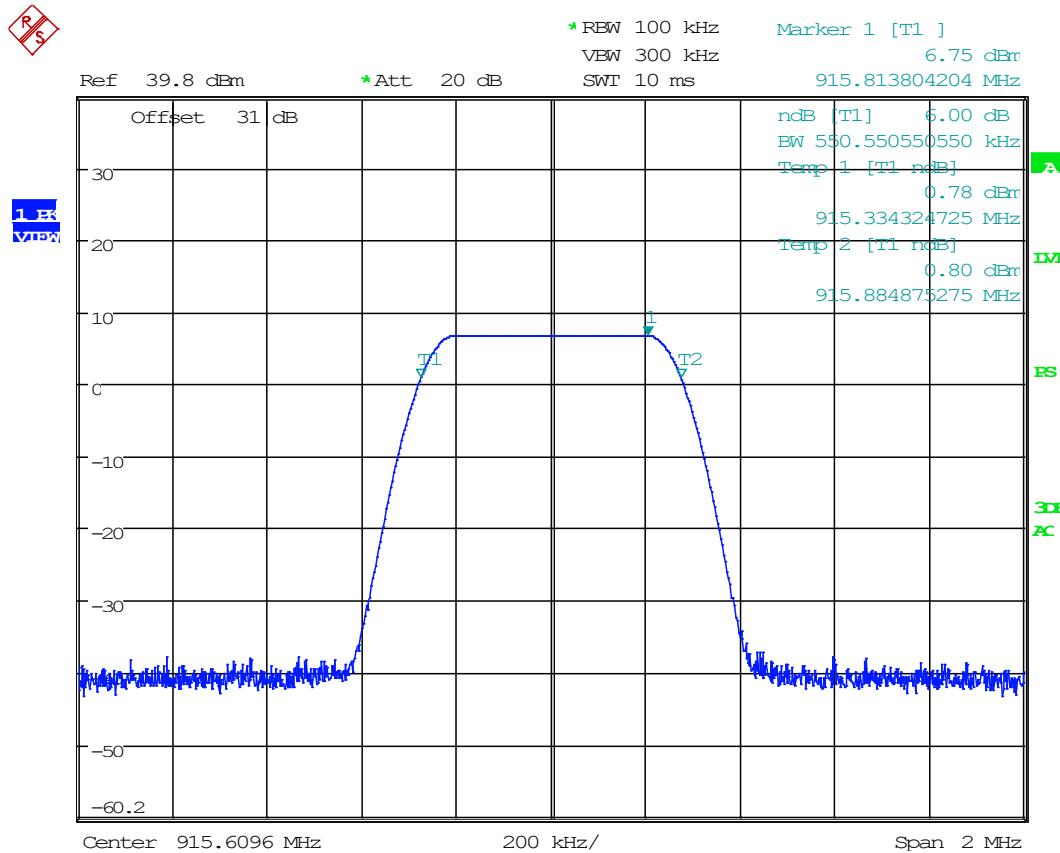
902.94 MHz



Date: 21.OCT.2020 12:52:59

## 6dB Bandwidth (DTS BW)

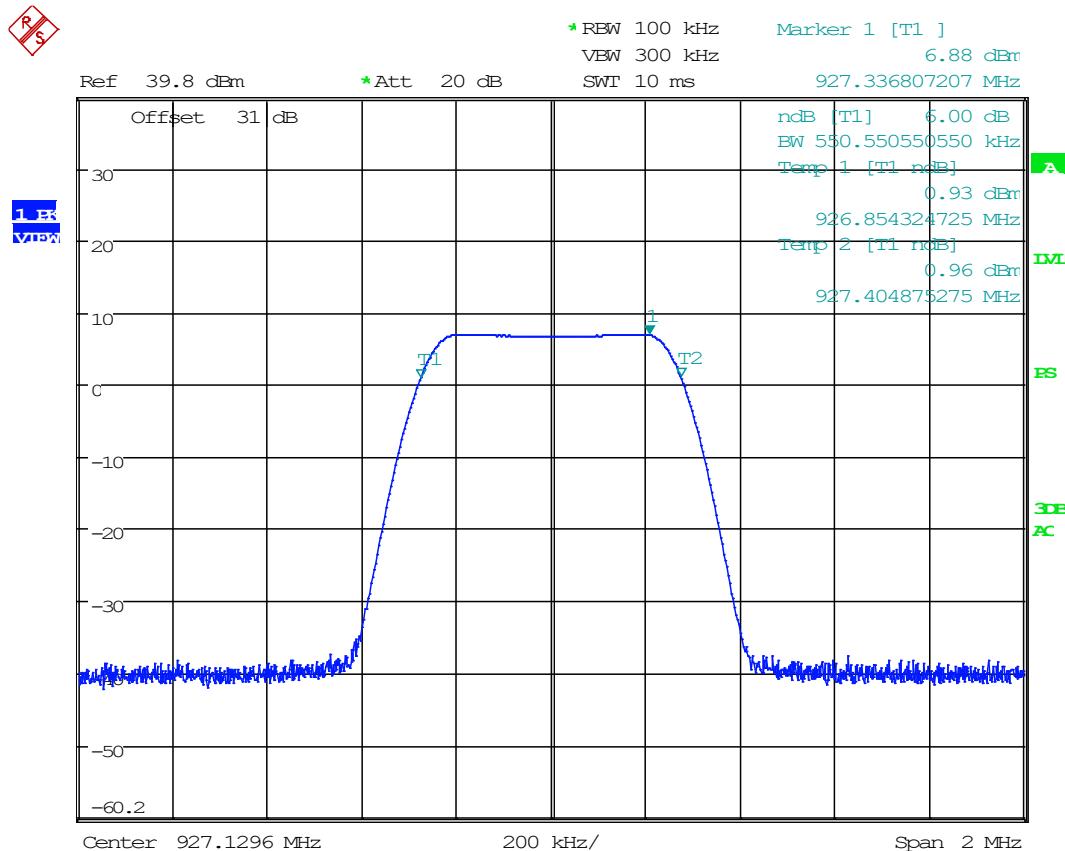
915.6 MHz



Date: 21.OCT.2020 12:53:31

## 6dB Bandwidth (DTS BW)

**927.13 MHz**

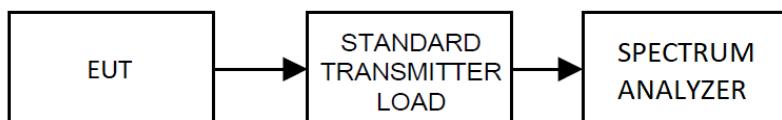


Date: 21.OCT.2020 12:55:01

## 8.3 DTS conducted output power

Limits from FCC Part 15.247 (b) (3) and test procedure from ANSI C63.10-2013 section 11.9

### Setup



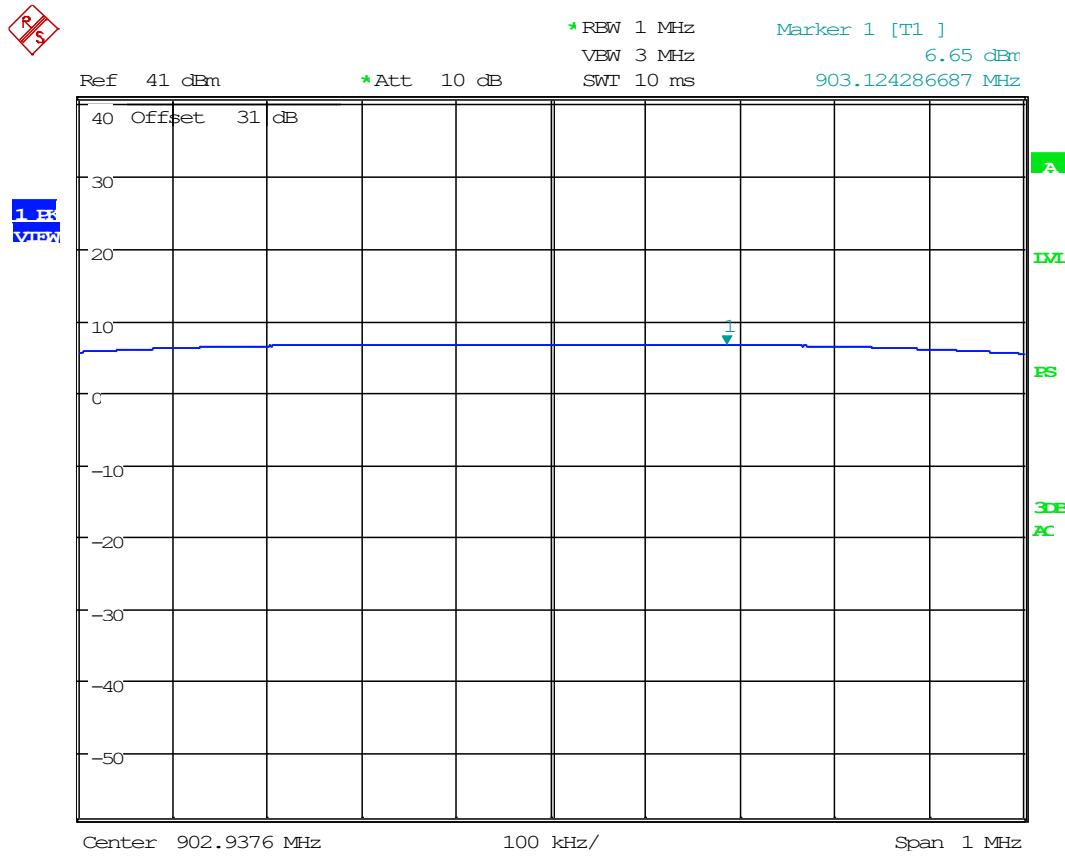
### Conducted Output Power Test Results

| Tuned Frequency (MHz) | Power Output (dBm) |
|-----------------------|--------------------|
| 902.94                | 6.65               |
| 915.6                 | 7.04               |
| 927.13                | 7.18               |

- MAXIMUM Conducted Output Power = 7.18 dBm

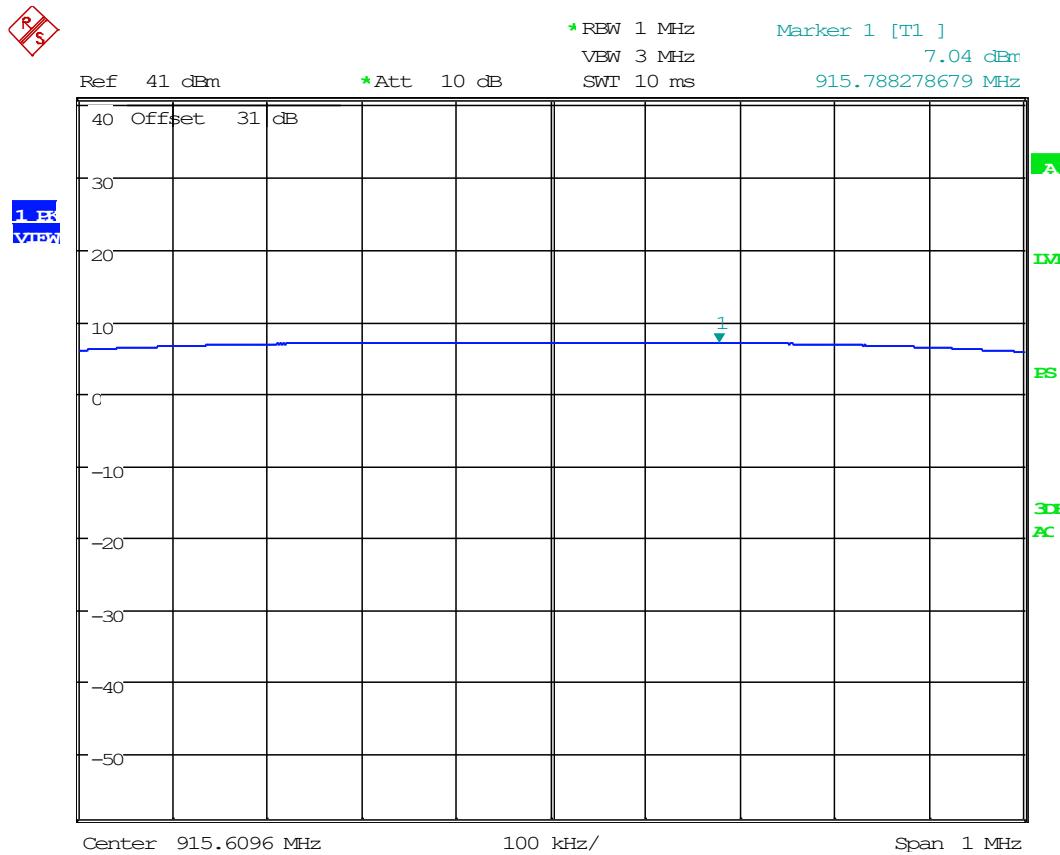
## Conducted Output Power Test Data / Spectrum Plots

### Conducted Output Power 902.94 MHz



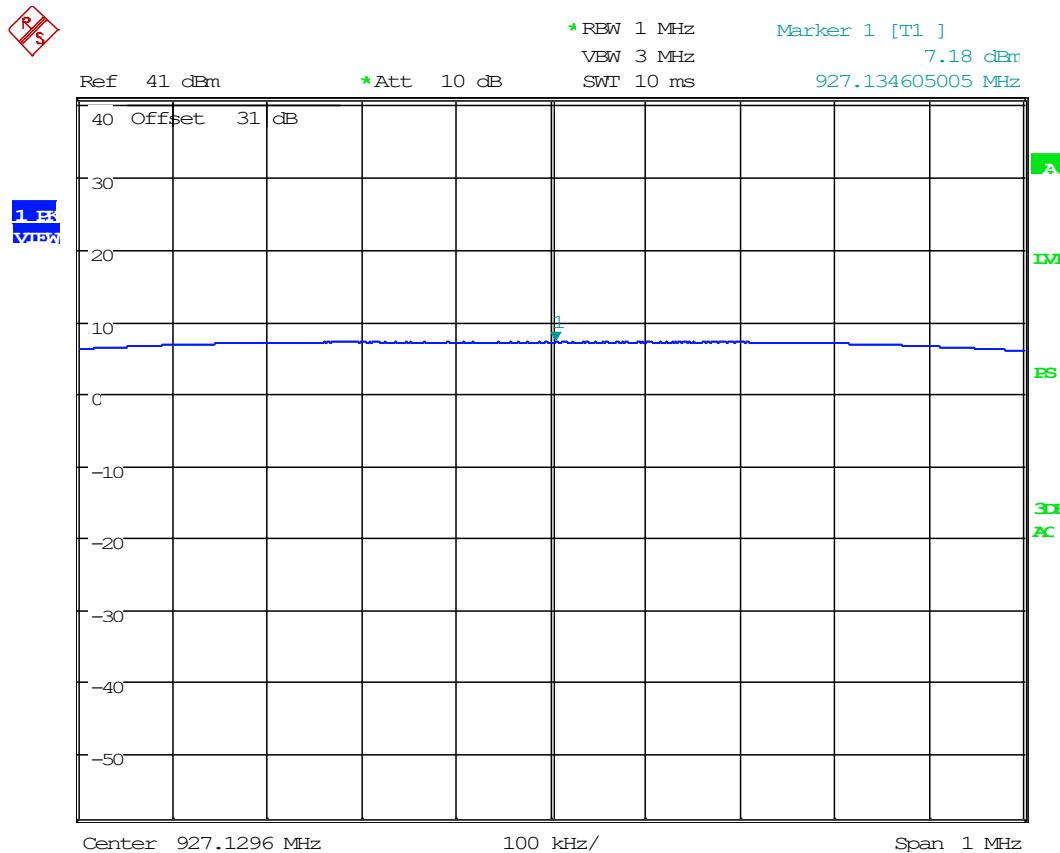
Date: 21.OCT.2020 12:41:30

## Conducted Output Power 915.6 MHz



Date: 21.OCT.2020 12:41:51

## Conducted Output Power 927.13 MHz

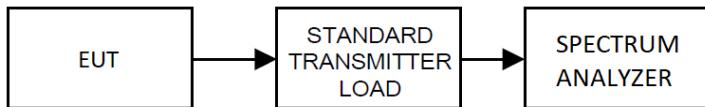


Date: 21.OCT.2020 12:40:57

## 8.4 Power Spectral Density (PSD)

Limits from FCC Part 15.247 (e) and test procedure from ANSI C63.10-2013 section 11.10

### Setup



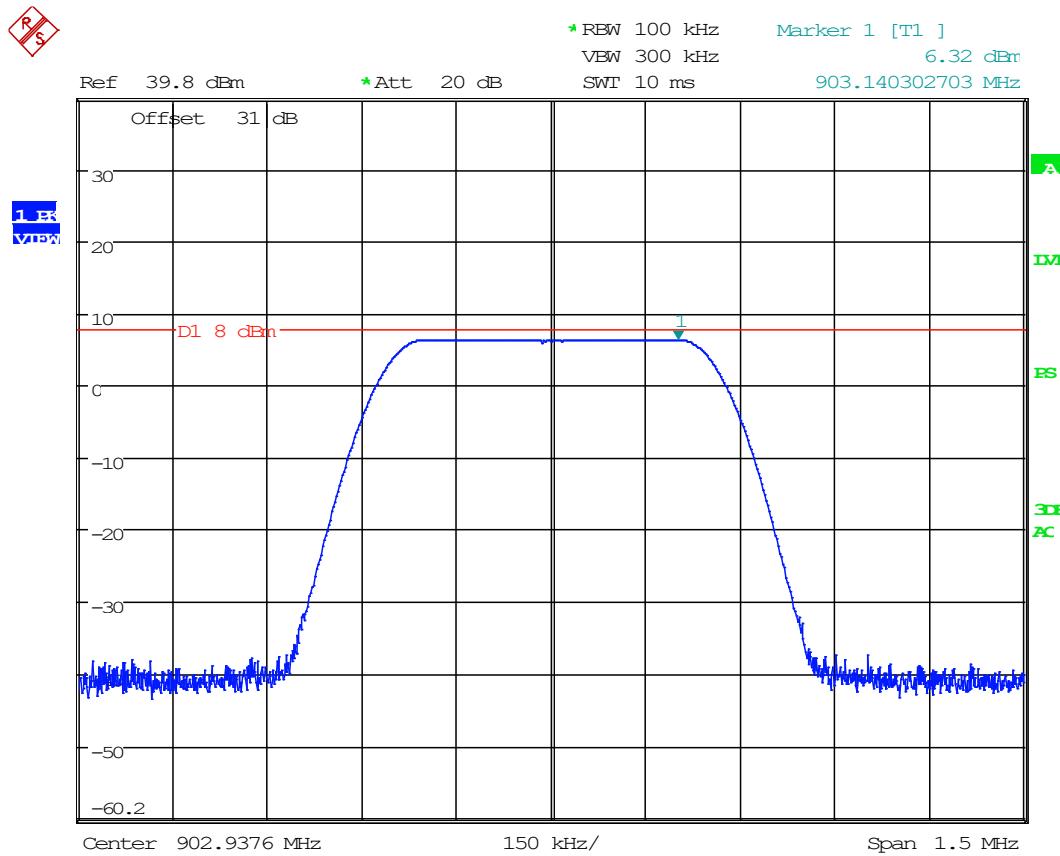
### PSD Test Results

| Tuned Frequency (MHz) | PSD Level (dBm) |
|-----------------------|-----------------|
| 902.94                | 6.32            |
| 915.6                 | 6.73            |
| 927.13                | 6.86            |

## Power Spectral Density (PSD) Test Data / Spectrum Plots

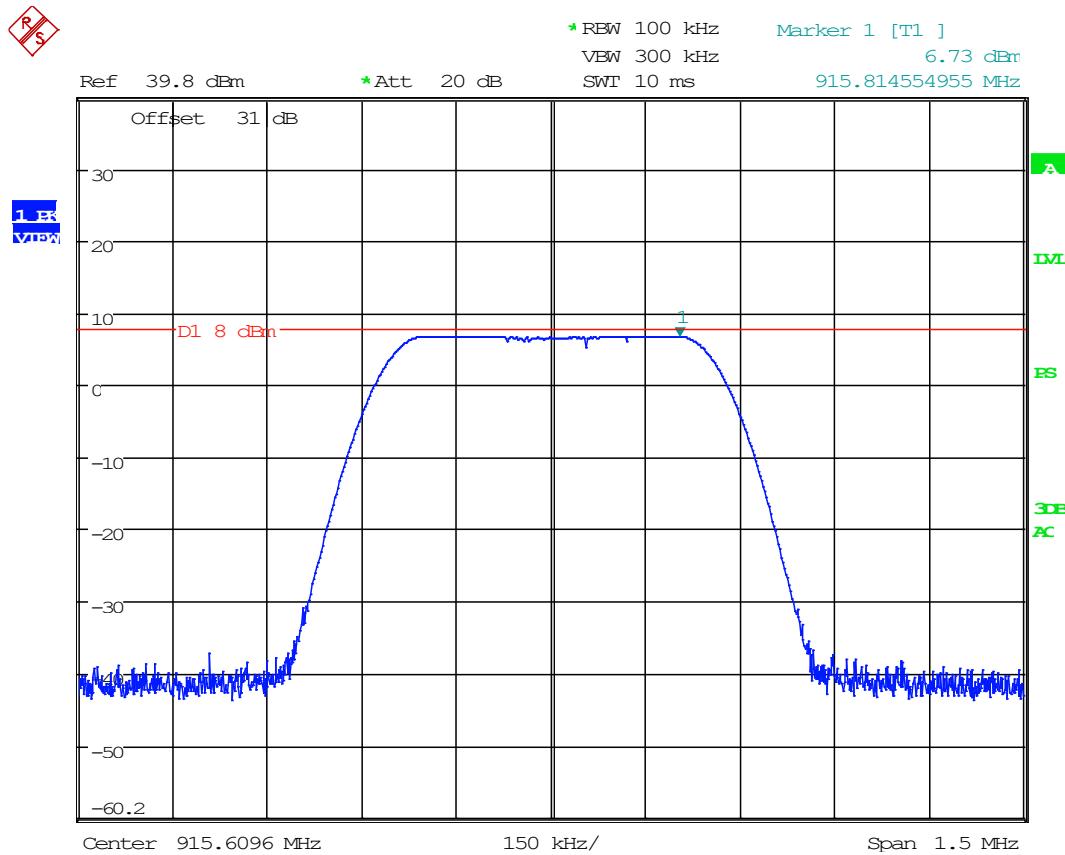
**PSD**

**902.94 MHz**



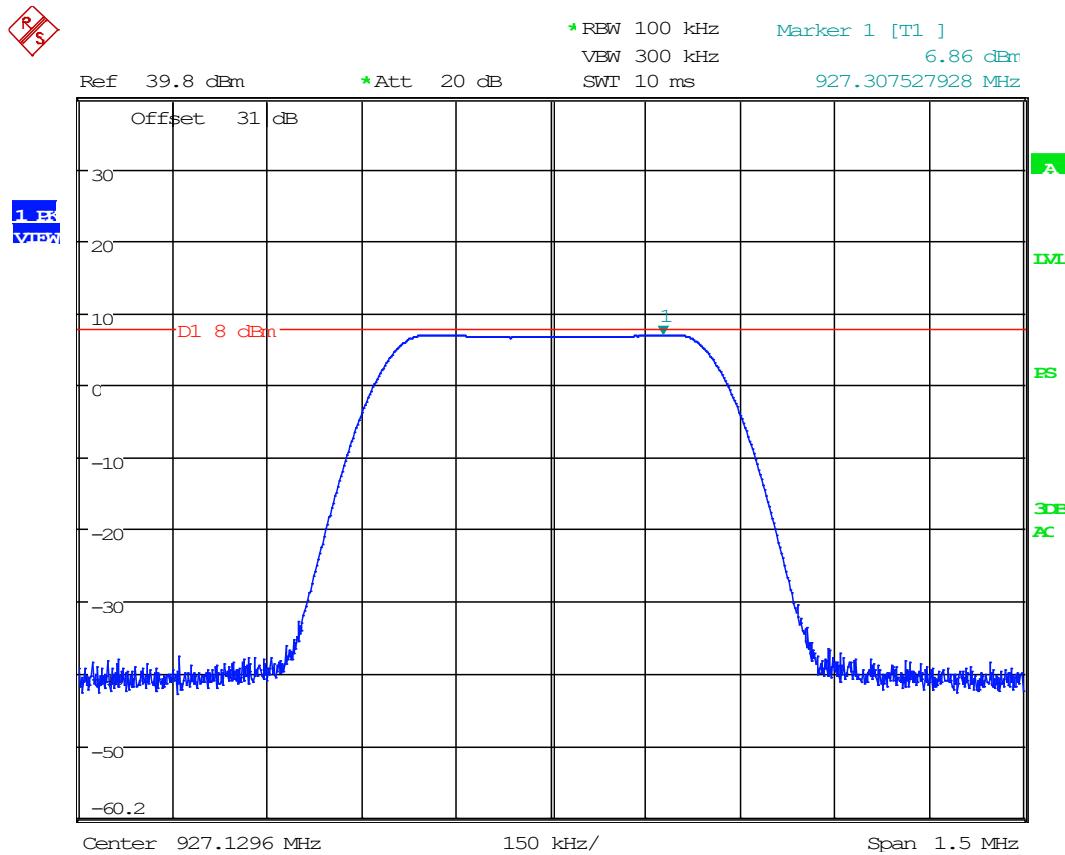
Date: 21.OCT.2020 12:57:21

## PSD 915.6 MHz



Date: 21.OCT.2020 12:57:01

**PSD**  
**927.13 MHz**



Date: 21.OCT.2020 12:56:41

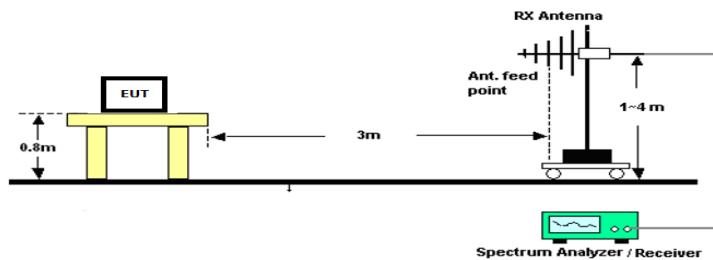
## 8.5 Spurious Emissions (Out of Band)

### Emissions in nonrestricted frequency bands

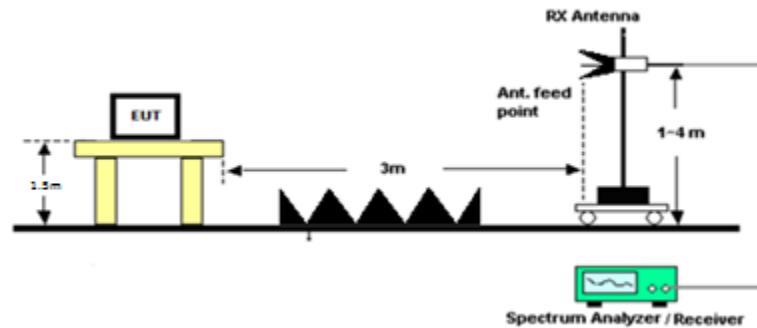
Limits from FCC Part 15.247 (d) and 15.215 (b) and test procedure from ANSI C63.10-2013 section 11.11

#### Setup

##### Emissions 30 – 1000 MHz



##### Emissions above 1 GHz





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| Tuned Frequency (MHz) | Emission Frequency (MHz) | 15.205 Restricted Band | 15.247(d) Detector | Meter Reading (dB $\mu$ V) | Antenna Polarity | Coax Loss (dB) | Duty Cycle Correction (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dB $\mu$ V/m) | Limit | Margin (dB) |
|-----------------------|--------------------------|------------------------|--------------------|----------------------------|------------------|----------------|----------------------------|----------------------------------|--------------|-------------------------------|-------|-------------|
| 903.00                | 51.52                    |                        | PK                 | 25.82                      | V                | 0.83           | 0.00                       | 10.74                            | 3.00         | 37.40                         | 64.24 | 26.84       |
| 915.00                | 151.78                   |                        | PK                 | 26.12                      | H                | 1.41           | 0.00                       | 16.50                            | 3.00         | 44.03                         | 64.24 | 20.21       |
| 915.00                | 195.37                   |                        | PK                 | 26.58                      | V                | 1.61           | 0.00                       | 15.21                            | 3.00         | 43.40                         | 64.24 | 20.84       |
| 927.00                | 36.27                    |                        | PK                 | 25.71                      | H                | 0.67           | 0.00                       | 13.40                            | 3.00         | 39.78                         | 64.24 | 24.46       |
| 927.00                | 144.97                   |                        | PK                 | 26.15                      | V                | 1.37           | 0.00                       | 15.99                            | 3.00         | 43.51                         | 64.24 | 20.73       |
| 903.00                | 873.08                   |                        | PK                 | 26.77                      | H                | 3.53           | 0.00                       | 22.64                            | 3.00         | 52.93                         | 64.24 | 11.31       |
| 903.00                | 438.46                   |                        | PK                 | 26.49                      | V                | 2.40           | 0.00                       | 15.70                            | 3.00         | 44.59                         | 64.24 | 19.65       |
| 915.00                | 785.90                   |                        | PK                 | 27.30                      | H                | 3.31           | 0.00                       | 21.46                            | 3.00         | 52.06                         | 64.24 | 12.18       |
| 915.00                | 787.18                   |                        | PK                 | 26.56                      | V                | 3.31           | 0.00                       | 21.25                            | 3.00         | 51.12                         | 64.24 | 13.12       |
| 927.00                | 369.23                   |                        | PK                 | 26.38                      | V                | 2.21           | 0.00                       | 14.13                            | 3.00         | 42.72                         | 64.24 | 21.52       |

| Tuned Frequency (MHz) | Emission Frequency (MHz) | 15.205 Restricted Band | 15.205, 15.35, 15.247(d) Detector | Meter Reading (dB $\mu$ V) | Antenna Polarity | Coax Loss (dB) | Duty Cycle Correction (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dB $\mu$ V/m) | Limit | Margin (dB) |
|-----------------------|--------------------------|------------------------|-----------------------------------|----------------------------|------------------|----------------|----------------------------|----------------------------------|--------------|-------------------------------|-------|-------------|
| 902.94                | 1805.88                  |                        | PK                                | 22.32                      | H                | 4.90           | 0.00                       | 30.36                            | 3.00         | 57.58                         | 64.24 | 6.66        |
| 902.94                | 1805.88                  |                        | PK                                | 25.94                      | V                | 4.90           | 0.00                       | 30.36                            | 3.00         | 61.20                         | 64.24 | 3.04        |
| 902.94                | 1805.88                  |                        |                                   |                            | H                | 4.90           | 0.00                       | 30.36                            | 3.00         |                               | 64.24 |             |
| 902.94                | 1805.88                  |                        |                                   |                            | V                | 4.90           | 0.00                       | 30.36                            | 3.00         |                               | 64.24 |             |
| 902.94                | 6320.56                  |                        | PK                                | 6.54                       | H                | 8.64           | 0.00                       | 35.39                            | 3.00         | 50.57                         | 64.24 | 13.67       |
| 902.94                | 6320.56                  |                        | PK                                | 7.55                       | V                | 8.64           | 0.00                       | 35.39                            | 3.00         | 51.58                         | 64.24 | 12.66       |
| 902.94                | 6320.56                  |                        |                                   |                            | H                | 8.64           | 0.00                       | 35.39                            | 3.00         |                               | 64.24 |             |
| 902.94                | 6320.56                  |                        |                                   |                            | V                | 8.64           | 0.00                       | 35.39                            | 3.00         |                               | 64.24 |             |
| 902.94                | 7223.50                  |                        | PK                                | 2.68                       | H                | 9.53           | 0.00                       | 36.36                            | 3.00         | 48.57                         | 64.24 | 15.67       |
| 902.94                | 7223.50                  |                        | PK                                | 2.64                       | V                | 9.53           | 0.00                       | 36.36                            | 3.00         | 48.53                         | 64.24 | 15.71       |
| 902.94                | 7223.50                  |                        |                                   |                            | H                | 9.53           | 0.00                       | 36.36                            | 3.00         |                               | 64.24 |             |
| 902.94                | 7223.50                  |                        |                                   |                            | V                | 9.53           | 0.00                       | 36.36                            | 3.00         |                               | 64.24 |             |

| Tuned Frequency (MHz) | Emission Frequency (MHz) | 15.205 Restricted Band | 15.205, 15.35, 15.247(d) Detector | Meter Reading (dB $\mu$ V) | Antenna Polarity | Coax Loss (dB) | Duty Cycle Correction (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dB $\mu$ V/m) | Limit | Margin (dB) |
|-----------------------|--------------------------|------------------------|-----------------------------------|----------------------------|------------------|----------------|----------------------------|----------------------------------|--------------|-------------------------------|-------|-------------|
| 915.61                | 1831.22                  |                        | PK                                | 25.33                      | H                | 4.94           | 0.00                       | 30.66                            | 3.00         | 60.93                         | 64.24 | 3.31        |
| 915.61                | 1831.22                  |                        | PK                                | 24.29                      | V                | 4.94           | 0.00                       | 30.66                            | 3.00         | 59.89                         | 64.24 | 4.35        |
| 915.61                | 1831.22                  |                        |                                   |                            | H                | 4.94           | 0.00                       | 30.66                            | 3.00         |                               | 64.24 |             |
| 915.61                | 1831.22                  |                        |                                   |                            | V                | 4.94           | 0.00                       | 30.66                            | 3.00         |                               | 64.24 |             |
| 915.61                | 5493.66                  |                        | PK                                | 15.82                      | H                | 8.07           | 0.00                       | 34.47                            | 3.00         | 58.36                         | 64.24 | 5.88        |
| 915.61                | 5493.66                  |                        | PK                                | 13.90                      | V                | 8.07           | 0.00                       | 34.47                            | 3.00         | 56.44                         | 64.24 | 7.80        |
| 915.61                | 5493.66                  |                        |                                   |                            | H                | 8.07           | 0.00                       | 34.47                            | 3.00         |                               | 64.24 |             |
| 915.61                | 5493.66                  |                        |                                   |                            | V                | 8.07           | 0.00                       | 34.47                            | 3.00         |                               | 64.24 |             |
| 915.61                | 6409.27                  |                        | PK                                | 7.25                       | H                | 8.95           | 0.00                       | 35.47                            | 3.00         | 51.67                         | 64.24 | 12.57       |
| 915.61                | 6409.27                  |                        | PK                                | 8.49                       | V                | 8.95           | 0.00                       | 35.47                            | 3.00         | 52.91                         | 64.24 | 11.33       |
| 915.61                | 6409.27                  |                        |                                   |                            | H                | 8.95           | 0.00                       | 35.47                            | 3.00         |                               | 64.24 |             |
| 915.61                | 6409.27                  |                        |                                   |                            | V                | 8.95           | 0.00                       | 35.47                            | 3.00         |                               | 64.24 |             |

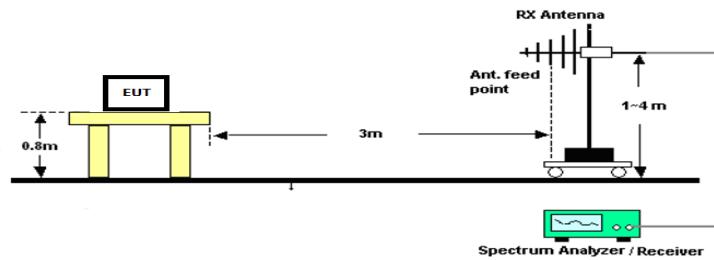
| Tuned Frequency (MHz) | Emission Frequency (MHz) | 15.205 Restricted Band | 15.205, 15.35, 15.247(d) Detector | Meter Reading (dB $\mu$ V) | Antenna Polarity | Coax Loss (dB) | Duty Cycle Correction (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dB $\mu$ V/m) | Limit | Margin (dB) |
|-----------------------|--------------------------|------------------------|-----------------------------------|----------------------------|------------------|----------------|----------------------------|----------------------------------|--------------|-------------------------------|-------|-------------|
| 927.13                | 1854.26                  |                        | PK                                | 21.88                      | H                | 4.98           | 0.00                       | 30.89                            | 3.00         | 57.76                         | 64.24 | 6.48        |
| 927.13                | 1854.26                  |                        | PK                                | 19.85                      | V                | 4.98           | 0.00                       | 30.89                            | 3.00         | 55.73                         | 64.24 | 8.51        |
| 927.13                | 1854.26                  |                        |                                   |                            | H                | 4.98           | 0.00                       | 30.89                            | 3.00         |                               | 64.24 |             |
| 927.13                | 1854.26                  |                        |                                   |                            | V                | 4.98           | 0.00                       | 30.89                            | 3.00         |                               | 64.24 |             |
| 927.13                | 5562.78                  |                        | PK                                | 6.50                       | H                | 8.06           | 0.00                       | 34.41                            | 3.00         | 48.97                         | 64.24 | 15.27       |
| 927.13                | 5562.78                  |                        | PK                                | 5.56                       | V                | 8.06           | 0.00                       | 34.41                            | 3.00         | 48.03                         | 64.24 | 16.21       |
| 927.13                | 5562.78                  |                        |                                   |                            | H                | 8.06           | 0.00                       | 34.41                            | 3.00         |                               | 64.24 |             |
| 927.13                | 5562.78                  |                        |                                   |                            | V                | 8.06           | 0.00                       | 34.41                            | 3.00         |                               | 64.24 |             |
| 927.13                | 6489.91                  |                        | PK                                | 4.05                       | H                | 9.07           | 0.00                       | 35.53                            | 3.00         | 48.65                         | 64.24 | 15.59       |
| 927.13                | 6489.91                  |                        | PK                                | 4.78                       | V                | 9.07           | 0.00                       | 35.53                            | 3.00         | 49.38                         | 64.24 | 14.86       |
| 927.13                | 6489.91                  |                        |                                   |                            | H                | 9.07           | 0.00                       | 35.53                            | 3.00         |                               | 64.24 |             |
| 927.13                | 6489.91                  |                        |                                   |                            | V                | 9.07           | 0.00                       | 35.53                            | 3.00         |                               | 64.24 |             |
| 927.13                | 9271.30                  |                        | PK                                | 2.32                       | H                | 10.86          | 0.00                       | 36.31                            | 3.00         | 49.49                         | 64.24 | 14.75       |
| 927.13                | 9271.30                  |                        | PK                                | 1.56                       | V                | 10.86          | 0.00                       | 36.31                            | 3.00         | 48.73                         | 64.24 | 15.51       |
| 927.13                | 9271.30                  |                        |                                   |                            | H                | 10.86          | 0.00                       | 36.31                            | 3.00         |                               | 64.24 |             |
| 927.13                | 9271.30                  |                        |                                   |                            | V                | 10.86          | 0.00                       | 36.31                            | 3.00         |                               | 64.24 |             |

## 8.6 Restricted Bands of Operation

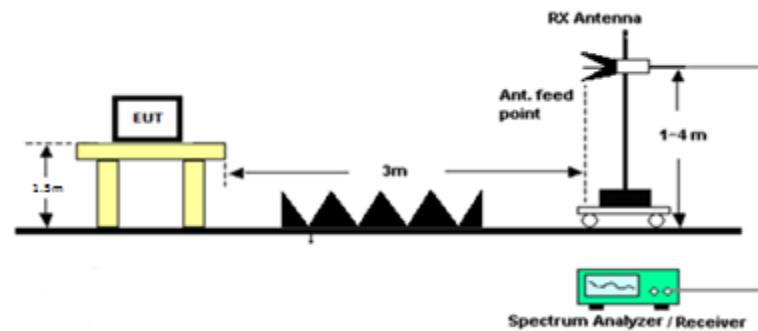
Limits from FCC Part 15.209

Setup

### Emissions 30 – 1000 MHz



### Emissions above 1 GHz





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## Plots

| Tuned Frequency (MHz) | Emission Frequency (MHz) | 15.205 Restricted Band | 15.247(d) Detector | Meter Reading (dB $\mu$ V) | Antenna Polarity | Coax Loss (dB) | Duty Cycle Correction (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dB $\mu$ V/m) | Limit | Margin (dB) |
|-----------------------|--------------------------|------------------------|--------------------|----------------------------|------------------|----------------|----------------------------|----------------------------------|--------------|-------------------------------|-------|-------------|
| 903.00                | 131.62                   | X                      | PK                 | 26.99                      | H                | 1.30           | 0.00                       | 13.42                            | 3.00         | 41.71                         | 73.98 | 32.27       |
| 927.00                | 241.03                   | X                      | PK                 | 26.99                      | H                | 1.78           | 0.00                       | 10.56                            | 3.00         | 39.33                         | 73.98 | 34.65       |

| Tuned Frequency (MHz) | Emission Frequency (MHz) | 15.205 Restricted Band | 15.205, 15.35, 15.247(d) Detector | Meter Reading (dB $\mu$ V) | Antenna Polarity | Coax Loss (dB) | Duty Cycle Correction (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dB $\mu$ V/m) | Limit | Margin (dB) |
|-----------------------|--------------------------|------------------------|-----------------------------------|----------------------------|------------------|----------------|----------------------------|----------------------------------|--------------|-------------------------------|-------|-------------|
| 902.94                | 2708.81                  | X                      | PK                                | 5.34                       | H                | 6.00           | 0.00                       | 32.49                            | 3.00         | 43.82                         | 73.98 | 30.16       |
| 902.94                | 2708.81                  | X                      | PK                                | 13.62                      | V                | 6.00           | 0.00                       | 32.49                            | 3.00         | 52.10                         | 73.98 | 21.88       |
| 902.94                | 2708.81                  | X                      | AVG                               | -8.50                      | H                | 6.00           | 0.00                       | 32.49                            | 3.00         | 29.98                         | 53.98 | 24.00       |
| 902.94                | 2708.81                  | X                      | AVG                               | -8.30                      | V                | 6.00           | 0.00                       | 32.49                            | 3.00         | 30.18                         | 53.98 | 23.80       |
| 902.94                | 3611.75                  | X                      | PK                                | 10.15                      | H                | 6.64           | 0.00                       | 33.13                            | 3.00         | 49.92                         | 73.98 | 24.06       |
| 902.94                | 3611.75                  | X                      | PK                                | 9.26                       | V                | 6.64           | 0.00                       | 33.13                            | 3.00         | 49.03                         | 73.98 | 24.95       |
| 902.94                | 3611.75                  | X                      | AVG                               | -1.10                      | H                | 6.64           | 0.00                       | 33.13                            | 3.00         | 38.67                         | 53.98 | 15.31       |
| 902.94                | 3611.75                  | X                      | AVG                               | -10.60                     | V                | 6.64           | 0.00                       | 33.13                            | 3.00         | 29.17                         | 53.98 | 24.81       |
| 902.94                | 4514.69                  | X                      | PK                                | 8.80                       | H                | 7.37           | 0.00                       | 33.92                            | 3.00         | 50.09                         | 73.98 | 23.89       |
| 902.94                | 4514.69                  | X                      | PK                                | 7.93                       | V                | 7.37           | 0.00                       | 33.92                            | 3.00         | 49.22                         | 73.98 | 24.76       |
| 902.94                | 4514.69                  | X                      | AVG                               | -13.70                     | H                | 7.37           | 0.00                       | 33.92                            | 3.00         | 27.59                         | 53.98 | 26.39       |
| 902.94                | 4514.69                  | X                      | AVG                               | -13.40                     | V                | 7.37           | 0.00                       | 33.92                            | 3.00         | 27.89                         | 53.98 | 26.09       |
| 902.94                | 5417.63                  | X                      | PK                                | 10.72                      | H                | 8.15           | 0.00                       | 34.40                            | 3.00         | 53.27                         | 73.98 | 20.71       |
| 902.94                | 5417.63                  | X                      | PK                                | 12.23                      | V                | 8.15           | 0.00                       | 34.40                            | 3.00         | 54.78                         | 73.98 | 19.20       |
| 902.94                | 5417.63                  | X                      | AVG                               | -13.70                     | H                | 8.15           | 0.00                       | 34.40                            | 3.00         | 28.85                         | 53.98 | 25.13       |
| 902.94                | 5417.63                  | X                      | AVG                               | -12.40                     | V                | 8.15           | 0.00                       | 34.40                            | 3.00         | 30.15                         | 53.98 | 23.83       |
| 902.94                | 8126.44                  | X                      | PK                                | -0.47                      | H                | 9.96           | 0.00                       | 35.80                            | 3.00         | 45.29                         | 73.98 | 28.69       |
| 902.94                | 8126.44                  | X                      | PK                                | 0.47                       | V                | 9.96           | 0.00                       | 35.80                            | 3.00         | 46.23                         | 73.98 | 27.75       |
| 902.94                | 8126.44                  | X                      | AVG                               | -20.80                     | H                | 9.96           | 0.00                       | 35.80                            | 3.00         | 24.96                         | 53.98 | 29.02       |
| 902.94                | 8126.44                  | X                      | AVG                               | -20.70                     | V                | 9.96           | 0.00                       | 35.80                            | 3.00         | 25.06                         | 53.98 | 28.92       |
| 902.94                | 9029.38                  | X                      | PK                                | 0.68                       | H                | 10.70          | 0.00                       | 36.13                            | 3.00         | 47.51                         | 73.98 | 26.47       |
| 902.94                | 9029.38                  | X                      | PK                                | 2.18                       | V                | 10.70          | 0.00                       | 36.13                            | 3.00         | 49.01                         | 73.98 | 24.97       |
| 902.94                | 9029.38                  | X                      | AVG                               | -20.00                     | H                | 10.70          | 0.00                       | 36.13                            | 3.00         | 26.83                         | 53.98 | 27.15       |
| 902.94                | 9029.38                  | X                      | AVG                               | -20.70                     | V                | 10.70          | 0.00                       | 36.13                            | 3.00         | 26.13                         | 53.98 | 27.85       |

| Tuned Frequency (MHz) | Emission Frequency (MHz) | 15.205 Restricted Band | 15.205, 15.35, 15.247(d) Detector | Meter Reading (dB $\mu$ V) | Antenna Polarity | Coax Loss (dB) | Duty Cycle Correction (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dB $\mu$ V/m) | Limit | Margin (dB) |
|-----------------------|--------------------------|------------------------|-----------------------------------|----------------------------|------------------|----------------|----------------------------|----------------------------------|--------------|-------------------------------|-------|-------------|
| 915.61                | 2746.83                  | X                      | PK                                | 11.79                      | H                | 6.09           | 0.00                       | 32.39                            | 3.00         | 50.27                         | 73.98 | 23.71       |
| 915.61                | 2746.83                  | X                      | PK                                | 15.07                      | V                | 6.09           | 0.00                       | 32.39                            | 3.00         | 53.55                         | 73.98 | 20.43       |
| 915.61                | 2746.83                  | X                      | AVG                               | -9.20                      | H                | 6.09           | 0.00                       | 32.39                            | 3.00         | 29.28                         | 53.98 | 24.70       |
| 915.61                | 2746.83                  | X                      | AVG                               | -8.10                      | V                | 6.09           | 0.00                       | 32.39                            | 3.00         | 30.38                         | 53.98 | 23.60       |
| 915.61                | 3662.44                  | X                      | PK                                | 9.43                       | H                | 6.62           | 0.00                       | 33.20                            | 3.00         | 49.25                         | 73.98 | 24.73       |
| 915.61                | 3662.44                  | X                      | PK                                | 9.74                       | V                | 6.62           | 0.00                       | 33.20                            | 3.00         | 49.56                         | 73.98 | 24.42       |
| 915.61                | 3662.44                  | X                      | AVG                               | -11.10                     | H                | 6.62           | 0.00                       | 33.20                            | 3.00         | 28.72                         | 53.98 | 25.26       |
| 915.61                | 3662.44                  | X                      | AVG                               | -11.70                     | V                | 6.62           | 0.00                       | 33.20                            | 3.00         | 28.12                         | 53.98 | 25.86       |
| 915.61                | 4578.05                  | X                      | PK                                | 8.32                       | H                | 7.53           | 0.00                       | 34.03                            | 3.00         | 49.88                         | 73.98 | 24.10       |
| 915.61                | 4578.05                  | X                      | PK                                | 7.08                       | V                | 7.53           | 0.00                       | 34.03                            | 3.00         | 48.64                         | 73.98 | 25.34       |
| 915.61                | 4578.05                  | X                      | AVG                               | -13.00                     | H                | 7.53           | 0.00                       | 34.03                            | 3.00         | 28.56                         | 53.98 | 25.42       |
| 915.61                | 4578.05                  | X                      | AVG                               | -13.70                     | V                | 7.53           | 0.00                       | 34.03                            | 3.00         | 27.86                         | 53.98 | 26.12       |
| 915.61                | 7324.88                  | X                      | PK                                | 0.85                       | H                | 9.59           | 0.00                       | 36.23                            | 3.00         | 46.67                         | 73.98 | 27.31       |
| 915.61                | 7324.88                  | X                      | PK                                | 6.53                       | V                | 9.59           | 0.00                       | 36.23                            | 3.00         | 52.35                         | 73.98 | 21.63       |
| 915.61                | 7324.88                  | X                      | AVG                               | 0.85                       | H                | 9.59           | 0.00                       | 36.23                            | 3.00         | 46.67                         | 53.98 | 7.31        |
| 915.61                | 7324.88                  | X                      | AVG                               | -19.50                     | V                | 9.59           | 0.00                       | 36.23                            | 3.00         | 26.32                         | 53.98 | 27.66       |
| 915.61                | 8240.49                  | X                      | PK                                | 3.95                       | H                | 10.02          | 0.00                       | 35.80                            | 3.00         | 49.77                         | 73.98 | 24.21       |
| 915.61                | 8240.49                  | X                      | PK                                | 1.28                       | V                | 10.02          | 0.00                       | 35.80                            | 3.00         | 47.10                         | 73.98 | 26.88       |
| 915.61                | 8240.49                  | X                      | AVG                               | 3.59                       | H                | 10.02          | 0.00                       | 35.80                            | 3.00         | 49.41                         | 53.98 | 4.57        |
| 915.61                | 8240.49                  | X                      | AVG                               | -20.30                     | V                | 10.02          | 0.00                       | 35.80                            | 3.00         | 25.52                         | 53.98 | 28.46       |
| 915.61                | 9156.10                  | X                      | PK                                | 0.99                       | H                | 10.84          | 0.00                       | 36.19                            | 3.00         | 48.02                         | 73.98 | 25.96       |
| 915.61                | 9156.10                  | X                      | PK                                | 0.36                       | V                | 10.84          | 0.00                       | 36.19                            | 3.00         | 47.39                         | 73.98 | 26.59       |
| 915.61                | 9156.10                  | X                      | AVG                               | 0.99                       | H                | 10.84          | 0.00                       | 36.19                            | 3.00         | 48.02                         | 53.98 | 5.96        |
| 915.61                | 9156.10                  | X                      | AVG                               | -20.60                     | V                | 10.84          | 0.00                       | 36.19                            | 3.00         | 26.43                         | 53.98 | 27.55       |



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| Tuned Frequency (MHz) | Emission Frequency (MHz) | 15.205 Restricted Band | 15.205, 15.35, 15.247(d) Detector | Meter Reading (dB $\mu$ V) | Antenna Polarity | Coax Loss (dB) | Duty Cycle Correction (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dB $\mu$ V/m) | Limit | Margin (dB) |
|-----------------------|--------------------------|------------------------|-----------------------------------|----------------------------|------------------|----------------|----------------------------|----------------------------------|--------------|-------------------------------|-------|-------------|
| 927.13                | 2781.39                  | X                      | PK                                | 10.39                      | H                | 6.15           | 0.00                       | 32.46                            | 3.00         | 49.00                         | 73.98 | 24.98       |
| 927.13                | 2781.39                  | X                      | PK                                | 11.56                      | V                | 6.15           | 0.00                       | 32.46                            | 3.00         | 50.17                         | 73.98 | 23.81       |
| 927.13                | 2781.39                  | X                      | AVG                               |                            | H                | 6.15           | 0.00                       | 32.46                            | 3.00         | 38.61                         | 53.98 | 15.37       |
| 927.13                | 2781.39                  | X                      | AVG                               |                            | V                | 6.15           | 0.00                       | 32.46                            | 3.00         | 38.61                         | 53.98 | 15.37       |
| 927.13                | 3708.52                  | X                      | PK                                | 9.22                       | H                | 6.57           | 0.00                       | 33.18                            | 3.00         | 48.97                         | 73.98 | 25.01       |
| 927.13                | 3708.52                  | X                      | PK                                | 11.14                      | V                | 6.57           | 0.00                       | 33.18                            | 3.00         | 50.89                         | 73.98 | 23.09       |
| 927.13                | 3708.52                  | X                      | AVG                               |                            | H                | 6.57           | 0.00                       | 33.18                            | 3.00         | 39.75                         | 53.98 | 14.23       |
| 927.13                | 3708.52                  | X                      | AVG                               |                            | V                | 6.57           | 0.00                       | 33.18                            | 3.00         | 39.75                         | 53.98 | 14.23       |
| 927.13                | 4635.65                  | X                      | PK                                | 8.23                       | H                | 7.52           | 0.00                       | 33.95                            | 3.00         | 49.69                         | 73.98 | 24.29       |
| 927.13                | 4635.65                  | X                      | PK                                | 8.78                       | V                | 7.52           | 0.00                       | 33.95                            | 3.00         | 50.24                         | 73.98 | 23.74       |
| 927.13                | 4635.65                  | X                      | AVG                               |                            | H                | 7.52           | 0.00                       | 33.95                            | 3.00         | 41.46                         | 53.98 | 12.52       |
| 927.13                | 4635.65                  | X                      | AVG                               |                            | V                | 7.52           | 0.00                       | 33.95                            | 3.00         | 41.46                         | 53.98 | 12.52       |
| 927.13                | 7417.04                  | X                      | PK                                | 2.08                       | H                | 9.52           | 0.00                       | 36.04                            | 3.00         | 47.64                         | 73.98 | 26.34       |
| 927.13                | 7417.04                  | X                      | PK                                | 1.60                       | V                | 9.52           | 0.00                       | 36.04                            | 3.00         | 47.16                         | 73.98 | 26.82       |
| 927.13                | 7417.04                  | X                      | AVG                               |                            | H                | 9.52           | 0.00                       | 36.04                            | 3.00         | 45.56                         | 53.98 | 8.42        |
| 927.13                | 7417.04                  | X                      | AVG                               |                            | V                | 9.52           | 0.00                       | 36.04                            | 3.00         | 45.56                         | 53.98 | 8.42        |
| 927.13                | 8344.17                  | X                      | PK                                | -0.67                      | H                | 10.15          | 0.00                       | 35.90                            | 3.00         | 45.38                         | 73.98 | 28.60       |
| 927.13                | 8344.17                  | X                      | PK                                | 0.08                       | V                | 10.15          | 0.00                       | 35.90                            | 3.00         | 46.13                         | 73.98 | 27.85       |
| 927.13                | 8344.17                  | X                      | AVG                               |                            | H                | 10.15          | 0.00                       | 35.90                            | 3.00         | 46.05                         | 53.98 | 7.93        |
| 927.13                | 8344.17                  | X                      | AVG                               |                            | V                | 10.15          | 0.00                       | 35.90                            | 3.00         | 46.05                         | 53.98 | 7.93        |



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## 8.7 Band-edge measurements

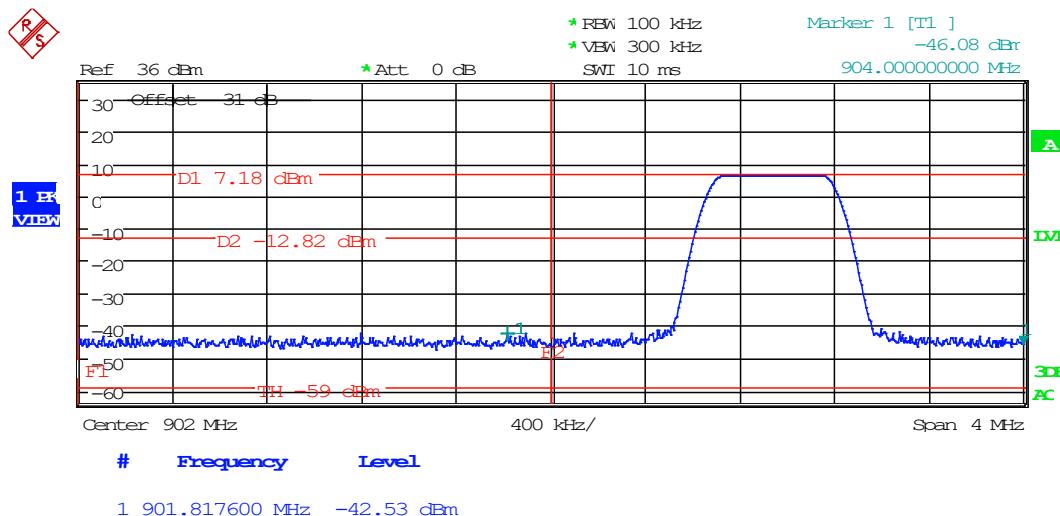
Requirement from FCC KDB 558074 D01 and test procedure from ANSI C63.10-2013 section 11.13

### General

Emissions within a restricted band and within 2 MHz of an authorized band edge may be measured using either the marker-delta method or the integration method, which is described in 11.13.3, provided that the DTS bandwidth (or EBW) edge falls within 2 MHz of the band edge. Otherwise, all unwanted emissions measurements shall be performed using the standard methods.

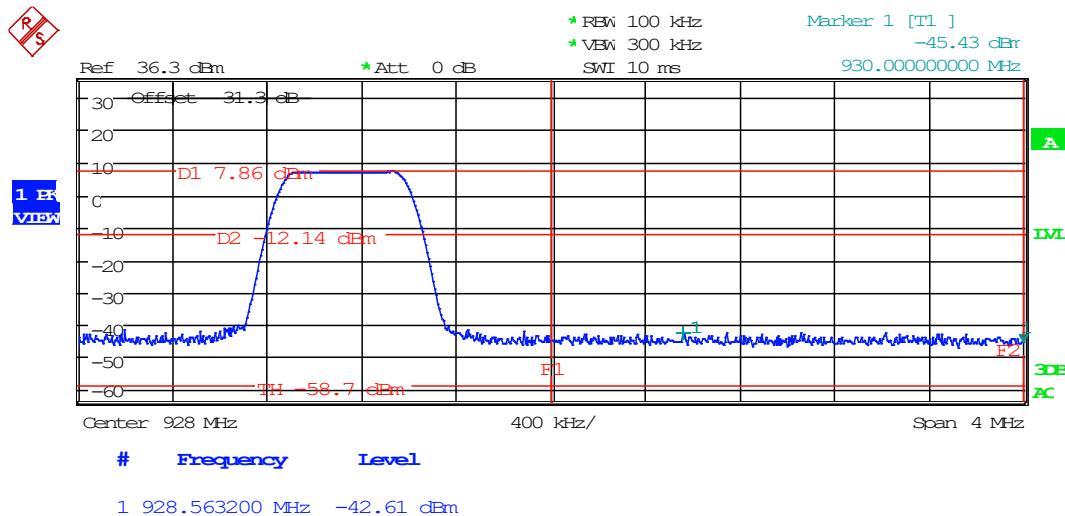
### Band-edge Test Data / Spectrum Plots

## Lower Band-edge spectrum plot



Date: 21.OCT.2020 13:03:59

## Upper Band-edge spectrum plot



Date: 21.OCT.2020 13:04:55



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## 9 ANNEX-A - Photographs of the EUT

Photographs of the EUT and any manufacturer supplied accessories to be used with the EUT Are in a separate supplementary ANNEX-A document.

## 10 ANNEX-B – Test Setup Photographs

Test setup photographs are located in a separate supplementary ANNEX-B document.

## 11 History of Test Report Changes

| Test Report #        | Revision # | Description         | Date of Issue     |
|----------------------|------------|---------------------|-------------------|
| TR_3846-20_FCC_DTS_1 | 1          | Initial release     | OCTOBER 29, 2020  |
|                      | 2          | Revised 28, 30 & 31 | November 17, 2020 |
|                      |            |                     |                   |
|                      |            |                     |                   |



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**END of Test Report**

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