



## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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# TEST REPORT

**Application No.:** SZCR2212004132AT  
**Applicant:** Shenzhen RAKwireless Technology Co.,Ltd.  
**Address of Applicant:** Room 506, Building B, New Compark, Pingshan First Road, Taoyuan Street, Nanshan District, Shenzhen, China  
**Manufacturer:** Shenzhen RAKwireless Technology Co.,Ltd.  
**Address of Manufacturer:** Room 506, Building B, New Compark, Pingshan First Road, Taoyuan Street, Nanshan District, Shenzhen, China  
**Equipment Under Test (EUT):**  
**EUT Name:** All-in-One. 5G  
**Model No.:** M310  
**Trade Mark:** RAK, MNTD  
**FCC ID:** 2AF6B-M310  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2022-12-08  
**Date of Test:** 2023-03-14 to 2023-04-08  
**Date of Issue:** 2023-04-19

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

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

Kenx. Xu

Kenx Xu  
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch EMC Laboratory

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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2023-04-19 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |                              |  |  |
|--------------------------|--|------------------------------|--|--|
| Authorized for issue by: |  |                              |  |  |
|                          |  | Benson Wang                  |  |  |
|                          |  | Benson Wang/Project Engineer |  |  |
|                          |  | Eric Fu                      |  |  |
|                          |  | Eric Fu/Reviewer             |  |  |



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## 2 Test Summary

| Radio Spectrum Technical Requirement |                                  |        |                                                 |        |
|--------------------------------------|----------------------------------|--------|-------------------------------------------------|--------|
| Item                                 | Standard                         | Method | Requirement                                     | Result |
| Antenna Requirement                  | 47 CFR Part 15, Subpart C 15.247 | N/A    | 47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) | Pass   |

| Radio Spectrum Matter Part                            |                                  |                                      |                                           |        |
|-------------------------------------------------------|----------------------------------|--------------------------------------|-------------------------------------------|--------|
| Item                                                  | Standard                         | Method                               | Requirement                               | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz)   | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.2       | 47 CFR Part 15, Subpart C 15.207          | Pass   |
| Conducted Peak Output Power                           |                                  | ANSI C63.10 (2013) Section 11.9.1    | 47 CFR Part 15, Subpart C 15.247(b)(3)    | Pass   |
| 20dB Bandwidth                                        |                                  | ANSI C63.10 (2013) Section 7.8.7     | 47 CFR Part 15, Subpart C 15.247(a)(1)    | Pass   |
| Carrier Frequencies Separation                        |                                  | ANSI C63.10 (2013) Section 7.8.2     | 47 CFR Part 15, Subpart C 15.247a(1)      | Pass   |
| Hopping Channel Number                                |                                  | ANSI C63.10 (2013) Section 7.8.3     | 47 CFR Part 15, Subpart C 15.247a(1)(iii) | Pass   |
| Dwell Time                                            |                                  | ANSI C63.10 (2013) Section 7.8.4     | 47 CFR Part 15, Subpart C 15.247a(1)(iii) | Pass   |
| Minimum 6dB Bandwidth                                 |                                  | ANSI C63.10 (2013) Section 11.8.1    | 47 CFR Part 15, Subpart C 15.247a(2)      | Pass   |
| Power Spectrum Density                                |                                  | ANSI C63.10 (2013) Section 11.10.2   | 47 CFR Part 15, Subpart C 15.247(e)       | Pass   |
| Conducted Band Edges Measurement                      |                                  | ANSI C63.10 (2013) Section 11.13.3.2 | 47 CFR Part 15, Subpart C 15.247(d)       | Pass   |
| Conducted Spurious Emissions                          |                                  | ANSI C63.10 (2013) Section 11.11     | 47 CFR Part 15, Subpart C 15.247(d)       | Pass   |
| Radiated Emissions which fall in the restricted bands |                                  | ANSI C63.10 (2013) Section 6.10.5    | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Radiated Spurious Emissions Below 1GHz                |                                  | ANSI C63.10 (2013) Section 6.4,6.5   | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Radiated Spurious Emissions Above 1GHz                |                                  | ANSI C63.10 (2013) Section 6.6       | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |

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## 4 General Information

### 4.1 Details of E.U.T.

|                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Power supply:                                                                                                                                                                                                                                                                                                                                                                                | Powered by POE adapter:<br>Adapter model: RP026-5601080YE<br>Input: AC 100-240V 50/60Hz<br>Output: DC 56.0V 1.08A |
| Cable:                                                                                                                                                                                                                                                                                                                                                                                       | Lan cable x 2: 302cm unshielded                                                                                   |
| Technical Specification of Lora DTS                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                   |
| Operating Frequency:                                                                                                                                                                                                                                                                                                                                                                         | 904.6MHz (SF8)<br>923.3 - 927.5MHz (SF7 - SF12)                                                                   |
| Type of Modulation:                                                                                                                                                                                                                                                                                                                                                                          | LoRa                                                                                                              |
| Data Rate:                                                                                                                                                                                                                                                                                                                                                                                   | SF7 - SF12, SF8 ( 904.6MHz )                                                                                      |
| Channel Number:                                                                                                                                                                                                                                                                                                                                                                              | 9 Channels                                                                                                        |
| Channel Separation:                                                                                                                                                                                                                                                                                                                                                                          | 600KHz                                                                                                            |
| Occupied Bandwidth:                                                                                                                                                                                                                                                                                                                                                                          | 500KHz                                                                                                            |
| Technical Specification of Lora Hybrid                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                   |
| Operating Frequency:                                                                                                                                                                                                                                                                                                                                                                         | 903.9 - 905.3MHz                                                                                                  |
| Type of Modulation:                                                                                                                                                                                                                                                                                                                                                                          | LoRa                                                                                                              |
| Data Rate:                                                                                                                                                                                                                                                                                                                                                                                   | SF7 -SF9 - SF10                                                                                                   |
| Channel Number:                                                                                                                                                                                                                                                                                                                                                                              | 8 Channels (DSS & DTS)                                                                                            |
| Channel Separation:                                                                                                                                                                                                                                                                                                                                                                          | 200KHz                                                                                                            |
| Occupied Bandwidth:                                                                                                                                                                                                                                                                                                                                                                          | 125KHz                                                                                                            |
| Antenna Gain:                                                                                                                                                                                                                                                                                                                                                                                | Integral Antenna: 3dBi;<br>Fiberglass Antenna 1 (RAKARG14): 5.8dBi;<br>Fiberglass Antenna 2 (RAKARG19): 5.1dBi;   |
| <ol style="list-style-type: none"> <li>The EUT have a integral antenna and two different Fiberglass antennas. The Integral antenna and Fiberglass antenna cannot transmit simultaneously.</li> <li>The Fiberglass Antenna 1 and 2 have the same type and RF characteristics as equivalent antenna, so, only the Fiberglass Antenna 1(High antenna gain) was tested in the report.</li> </ol> |                                                                                                                   |

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## RF Channel and Frequency of Lora DTS

| RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| 1          | 904.6           | 3          | 923.9           | 5          | 925.1           | 7          | 926.3           |
| 2          | 923.3           | 4          | 924.5           | 6          | 925.7           | 8          | 926.9           |
| 9          | 927.5           |            |                 |            |                 |            |                 |

## RF Channel and Frequency of Lora Hybrid

| RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| 1          | 903.9           | 3          | 904.3           | 5          | 904.7           | 7          | 905.1           |
| 2          | 904.1           | 4          | 904.5           | 6          | 904.9           | 8          | 905.3           |

| DR  | 配置                                        | Indicative physical bit rate [bit/sec] |
|-----|-------------------------------------------|----------------------------------------|
| 0   | LoRa Modulation: SF10 / Bandwidth 125 kHz | 980                                    |
| 1   | LoRa Modulation: SF9 / Bandwidth 125 kHz  | 1760                                   |
| 2   | LoRa Modulation: SF8 / Bandwidth 125 kHz  | 3125                                   |
| 3   | LoRa Modulation: SF7 / Bandwidth 125 kHz  | 5470                                   |
| 4   | LoRa Modulation: SF8 / Bandwidth 500 kHz  | 12500                                  |
| 5~7 |                                           |                                        |
| 8   | LoRa Modulation: SF12 / Bandwidth 500 kHz | 980                                    |
| 9   | LoRa Modulation: SF11 / Bandwidth 500 kHz | 1760                                   |
| 10  | LoRa Modulation: SF10 / Bandwidth 500 kHz | 3900                                   |
| 11  | LoRa Modulation: SF9 / Bandwidth 500 kHz  | 7000                                   |
| 12  | LoRa Modulation: SF8 / Bandwidth 500 kHz  | 12500                                  |
| 13  | LoRa Modulation: SF7 / Bandwidth 500 kHz  | 21900                                  |

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### 4.2 Description of Support Units

| Description                                     | Manufacturer | Model No. | Serial No. |
|-------------------------------------------------|--------------|-----------|------------|
| --                                              | --           | --        | --         |
| The EUT has been tested as an independent unit. |              |           |            |

### 4.3 Measurement Uncertainty

| Test Item                                             | Measurement Uncertainty                                          |
|-------------------------------------------------------|------------------------------------------------------------------|
| Conducted Emissions at AC Power Line (150kHz-30MHz)   | $\pm 3.0\text{dB}$ (150kHz to 30MHz)                             |
| Conducted Peak Output Power                           | $\pm 0.75\text{dB}$                                              |
| 20dB Bandwidth                                        | $\pm 3\%$                                                        |
| Carrier Frequencies Separation                        | $\pm 7.25 \times 10^{-8}$                                        |
| Hopping Channel Number                                | $\pm 7.25 \times 10^{-8}$                                        |
| Dwell Time                                            | $\pm 0.37\%$                                                     |
| Minimum 6dB Bandwidth                                 | $\pm 3\%$                                                        |
| Power Spectrum Density                                | $\pm 2.84\text{dB}$                                              |
| Conducted Band Edges Measurement                      | $\pm 0.75\text{dB}$                                              |
| Conducted Spurious Emissions                          | $\pm 0.75\text{dB}$                                              |
| Radiated Emissions which fall in the restricted bands | $\pm 4.5\text{dB}$ (Below 1GHz); $\pm 4.8\text{dB}$ (Above 1GHz) |
| Radiated Spurious Emissions Below 1GHz                | $\pm 4.5\text{dB}$                                               |
| Radiated Spurious Emissions Above 1GHz                | $\pm 4.8\text{dB}$                                               |

#### Remark:

The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{CISPR/ETSI}}$  (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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### 4.4 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

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

#### • A2LA (Certificate No. 3816.01)

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#### • VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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## 5 Equipment List

| Conducted Emissions at AC Power Line (150kHz-30MHz) |                  |                  |               |                          |                          |
|-----------------------------------------------------|------------------|------------------|---------------|--------------------------|--------------------------|
| Equipment                                           | Manufacturer     | Model No.        | Inventory No. | Cal Date                 | Cal Due Date             |
| Shielding Room                                      | ZhongYu Electron | GB-88            | SEM001-06     | 2022-05-14               | 2025-05-13               |
| EMI Test Receiver                                   | Rohde&Schwarz    | ESCI             | SEM004-02     | 2022-03-21<br>2023-03-20 | 2023-03-20<br>2024-03-19 |
| Measurement Software                                | AUDIX            | e3 V8.2014-6-27a | N/A           | N/A                      | N/A                      |
| Coaxial Cable                                       | SGS              | N/A              | SEM024-01     | 2022-07-08               | 2023-07-07               |
| LISN                                                | Rohde&Schwarz    | ENV216           | SEM007-01     | 2022-09-20               | 2023-09-19               |
| LISN                                                | ETS-LINDGREN     | 3816/2           | SEM007-02     | 2022-03-21<br>2023-03-20 | 2023-03-20<br>2024-03-19 |

| RF conducted         |              |               |               |                          |                          |
|----------------------|--------------|---------------|---------------|--------------------------|--------------------------|
| Equipment            | Manufacturer | Model No.     | Inventory No. | Cal Date                 | Cal Due Date             |
| DC Power Supply      | Chroma       | 62012P-80-60  | SEM011-11     | 2022-10-20               | 2023-10-19               |
| MXA Signal Analyzer  | KEYSIGHT     | N9020A        | SEM004-19     | 2022-03-21<br>2023-03-20 | 2023-03-20<br>2024-03-19 |
| Measurement Software | TST PASS     | TST PASS V2.0 | N/A           | N/A                      | N/A                      |
| Coaxial Cable        | SGS          | N/A           | SEM031-01     | 2022-07-08               | 2023-07-07               |
| Attenuator           | Huber+Suhner | 6620_SMA-50-1 | SEM021-09     | 2022-03-21<br>2023-03-20 | 2023-03-20<br>2024-03-19 |

| Radiated Emissions Below 1GHz |                      |                 |               |                          |                          |
|-------------------------------|----------------------|-----------------|---------------|--------------------------|--------------------------|
| Equipment                     | Manufacturer         | Model No.       | Inventory No. | Cal Date                 | Cal Due Date             |
| Loop Antenna                  | ETS-Lindgren         | 6502            | SEM003-08     | 2021-11-30               | 2023-11-29               |
| 3m Semi-Anechoic Chamber      | ETS-LINDGREN         | N/A             | SEM001-01     | 2020-07-19               | 2023-07-18               |
| MXE EMI Receiver              | Agilent Technologies | N9038A          | SEM004-15     | 2022-10-20               | 2023-10-19               |
| BiConiLog Antenna             | ETS-LINDGREN         | 3142C           | SEM003-01     | 2021-09-17               | 2023-09-16               |
| Pre-Amplifier                 | Agilent Technologies | 8447D           | SEM005-01     | 2022-03-21<br>2023-03-20 | 2023-03-20<br>2024-03-19 |
| Measurement Software          | AUDIX                | e3 V8.2014-6-27 | N/A           | N/A                      | N/A                      |
| Coaxial Cable                 | SGS                  | N/A             | SEM025-01     | 2022-07-08               | 2023-07-07               |



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## Radiated Emissions Above 1GHz

| Equipment                  | Manufacturer    | Model No.       | Inventory No. | Cal Date                 | Cal Due Date             |
|----------------------------|-----------------|-----------------|---------------|--------------------------|--------------------------|
| 3m Semi-Anechoic Chamber   | AUDIX           | N/A             | SEM001-02     | 2022-04-02               | 2025-04-01               |
| Signal Analyzer            | Rohde & Schwarz | FSV40           | SEM008-04     | 2022-03-21<br>2023-03-20 | 2023-03-20<br>2024-03-19 |
| Horn Antenna               | Rohde&Schwarz   | HF907           | SEM003-07     | 2022-07-24               | 2024-07-23               |
| Microwave system amplifier | Agilent         | 83017A          | SEM005-25     | 2022-09-21               | 2023-09-20               |
| Measurement Software       | AUDIX           | e3 V8.2014-6-27 | N/A           | N/A                      | N/A                      |
| Coaxial Cable              | SGS             | N/A             | SEM026-01     | 2022-07-08               | 2023-07-07               |

## General used equipment

| Equipment                       | Manufacturer                              | Model No. | Inventory No. | Cal Date                 | Cal Due Date             |
|---------------------------------|-------------------------------------------|-----------|---------------|--------------------------|--------------------------|
| Humidity/ Temperature Indicator | Mingle                                    | N/A       | SEM002-08     | 2022-09-04               | 2023-09-03               |
| Humidity/ Temperature Indicator | Anymetre                                  | TH101B    | SEM002-09     | 2022-09-04               | 2023-09-03               |
| Barometer                       | Changchun Meteorological Industry Factory | DYM3      | SEM002-01     | 2022-03-21<br>2023-03-20 | 2023-03-20<br>2024-03-19 |



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

1. The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna of Integral Antenna gain is: 3dBi;
2. The antenna is N-type male connector what is connect to the R-SMA of EUT and no consideration of replacement. The best case gain of the antenna as the following:  
Fiberglass Antenna 1 (RAKARG14): 5.8dBi;  
Fiberglass Antenna 2 (RAKARG19): 5.1dBi;

Antenna location: Refer to external photos



## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

| Frequency of emission(MHz)                                             | Conducted limit(dBμV) |           |
|------------------------------------------------------------------------|-----------------------|-----------|
|                                                                        | Quasi-peak            | Average   |
| 0.15-0.5                                                               | 66 to 56*             | 56 to 46* |
| 0.5-5                                                                  | 56                    | 46        |
| 5-30                                                                   | 60                    | 50        |
| *Decreases with the logarithm of the frequency.                        |                       |           |
| Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz |                       |           |

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                          |
|-----------------------|-----------|----------------------------------------------------------------------|
| Final test            | 00        | DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.     |
| Pre-scan              | 01        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.     |
| Pre-scan              | 02        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.     |
| Pre-scan              | 03        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.     |
| Pre-scan              | 04        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.    |
| Pre-scan              | 05        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.    |
| Pre-scan              | 06        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.    |
| Pre-scan              | 07        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.  |
| Pre-scan              | 08        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.  |
| Pre-scan              | 09        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.  |
| Pre-scan              | 10        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.  |
| Pre-scan              | 11        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.  |
| Pre-scan              | 12        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.  |
| Pre-scan              | 13        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10. |



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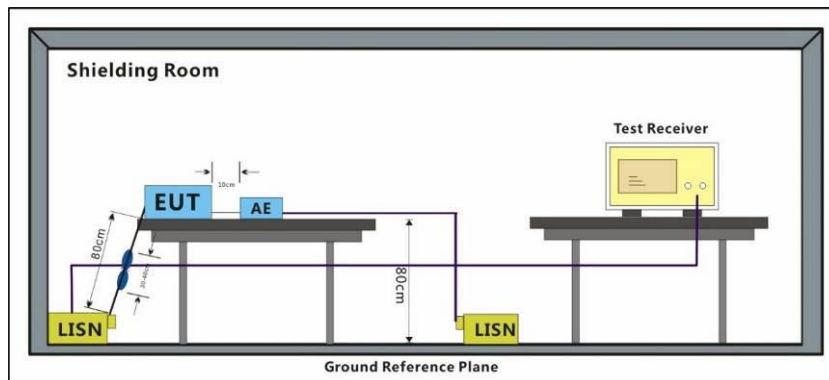
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|          |    |                                                                      |
|----------|----|----------------------------------------------------------------------|
| Pre-scan | 14 | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10. |
| Pre-scan | 15 | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10. |

### 7.1.3 Test Setup Diagram



### 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor

- 6) Pre-scan the EUT with integral antenna and Fiberglass antenna 1, the highest emissions could be found when testing, so only the Fiberglass antenna 1 had been displayed.

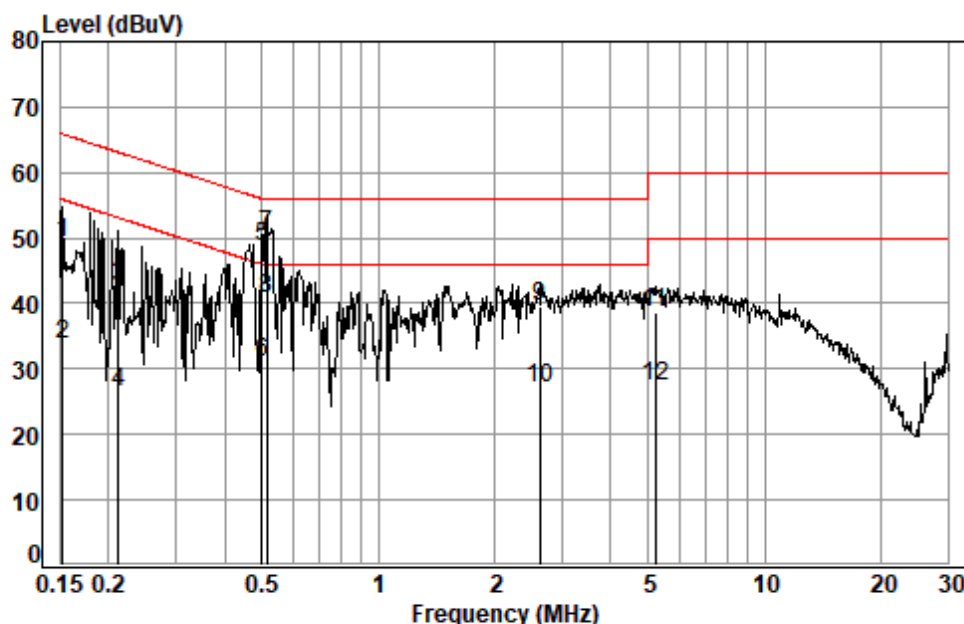
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Test Mode: 00; Line: Live line



Site : Shielding Room  
Condition: Line  
Job No. : 04132AT  
Test mode: 00

|     | Freq   | Cable Loss | LISN Factor | Read Level | Limit Line | Over Limit | Remark         |
|-----|--------|------------|-------------|------------|------------|------------|----------------|
|     | MHz    | dB         | dB          | dBuV       | dBuV       | dB         |                |
| 1   | 0.1524 | 0.03       | 9.63        | 39.64      | 49.30      | 65.87      | -16.57 QP      |
| 2   | 0.1524 | 0.03       | 9.63        | 24.03      | 33.69      | 55.87      | -22.18 Average |
| 3   | 0.2128 | 0.04       | 9.62        | 32.94      | 42.60      | 63.10      | -20.50 QP      |
| 4   | 0.2128 | 0.04       | 9.62        | 16.79      | 26.45      | 53.10      | -26.65 Average |
| 5   | 0.4994 | 0.05       | 9.62        | 38.86      | 48.53      | 56.01      | -7.48 QP       |
| 6   | 0.4994 | 0.05       | 9.62        | 21.31      | 30.98      | 46.01      | -15.03 Average |
| 7 * | 0.5155 | 0.06       | 9.62        | 40.69      | 50.37      | 56.00      | -5.63 QP       |
| 8 * | 0.5155 | 0.06       | 9.62        | 31.01      | 40.69      | 46.00      | -5.31 Average  |
| 9   | 2.6221 | 0.12       | 9.64        | 29.71      | 39.47      | 56.00      | -16.53 QP      |
| 10  | 2.6221 | 0.12       | 9.64        | 17.36      | 27.12      | 46.00      | -18.88 Average |
| 11  | 5.2213 | 0.15       | 9.68        | 28.88      | 38.71      | 60.00      | -21.29 QP      |
| 12  | 5.2213 | 0.15       | 9.68        | 17.59      | 27.42      | 50.00      | -22.58 Average |



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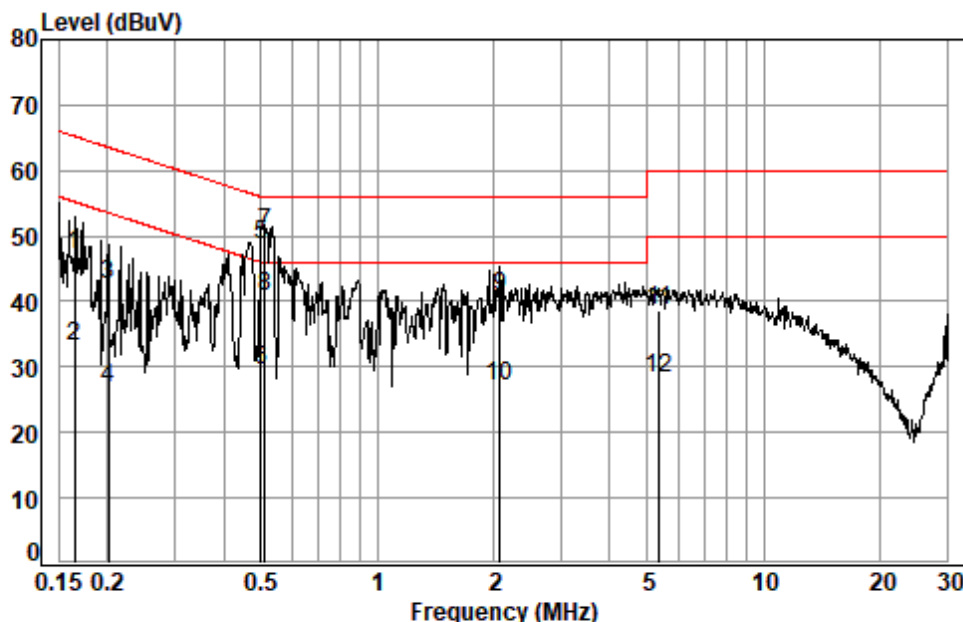
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Test Mode: 00; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 04132AT  
Test mode: 00

|     | Freq   | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark  |
|-----|--------|------------|-------------|------------|-------|------------|------------|---------|
|     | MHz    | dB         | dB          | dBuV       | dBuV  | dBuV       | dB         |         |
| 1   | 0.1650 | 0.03       | 9.62        | 37.35      | 47.00 | 65.21      | -18.21     | QP      |
| 2   | 0.1650 | 0.03       | 9.62        | 23.61      | 33.26 | 55.21      | -21.95     | Average |
| 3   | 0.2018 | 0.04       | 9.62        | 32.97      | 42.63 | 63.54      | -20.91     | QP      |
| 4   | 0.2018 | 0.04       | 9.62        | 17.14      | 26.80 | 53.54      | -26.74     | Average |
| 5   | 0.4994 | 0.05       | 9.62        | 38.86      | 48.53 | 56.01      | -7.48      | QP      |
| 6   | 0.4994 | 0.05       | 9.62        | 19.77      | 29.44 | 46.01      | -16.57     | Average |
| 7 * | 0.5128 | 0.06       | 9.62        | 40.77      | 50.45 | 56.00      | -5.55      | QP      |
| 8 * | 0.5128 | 0.06       | 9.62        | 31.12      | 40.80 | 46.00      | -5.20      | Average |
| 9   | 2.0768 | 0.11       | 9.64        | 31.08      | 40.83 | 56.00      | -15.17     | QP      |
| 10  | 2.0768 | 0.11       | 9.64        | 17.38      | 27.13 | 46.00      | -18.87     | Average |
| 11  | 5.3615 | 0.16       | 9.69        | 28.68      | 38.53 | 60.00      | -21.47     | QP      |
| 12  | 5.3615 | 0.16       | 9.69        | 18.31      | 28.16 | 50.00      | -21.84     | Average |



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## 7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

| Frequency range(MHz) | Output power of the intentional radiator(watt)         |
|----------------------|--------------------------------------------------------|
| 902-928              | 1 for $\geq 50$ hopping channels                       |
|                      | 0.25 for $25 \leq$ hopping channels $< 50$             |
|                      | 1 for digital modulation                               |
| 2400-2483.5          | 1 for $\geq 75$ non-overlapping hopping channels       |
|                      | 0.125 for all other frequency hopping systems          |
|                      | 1 for digital modulation                               |
| 5725-5850            | 1 for frequency hopping systems and digital modulation |

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C

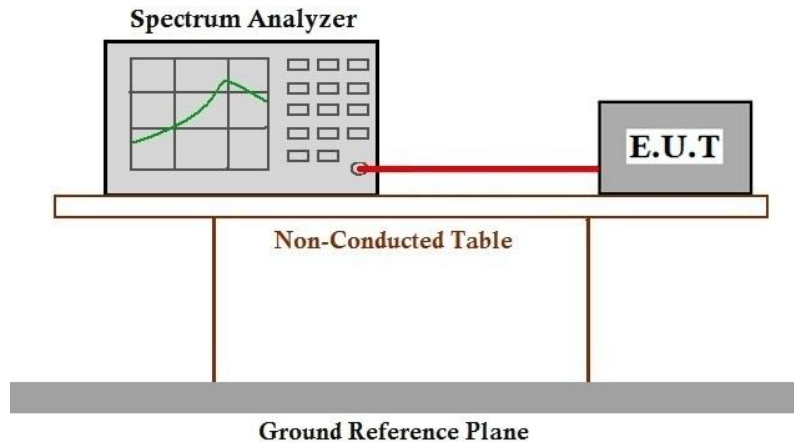
Humidity: 43.1 % RH

Atmospheric Pressure: 1015 mbar

### 7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                          |
|-----------------------|-----------|----------------------------------------------------------------------|
| Final test            | 00        | DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.     |
| Final test            | 01        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.     |
| Final test            | 02        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.     |
| Final test            | 03        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.     |
| Final test            | 04        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.    |
| Final test            | 05        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.    |
| Final test            | 06        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.    |
| Final test            | 07        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.  |
| Final test            | 08        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.  |
| Final test            | 09        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.  |
| Final test            | 10        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.  |
| Final test            | 11        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.  |
| Final test            | 12        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.  |
| Final test            | 13        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10. |
| Final test            | 14        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10. |
| Final test            | 15        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10. |

### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



### 7.3 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)  
 Test Method: ANSI C63.10 (2013) Section 7.8.7  
 Limit: <= 500kHz

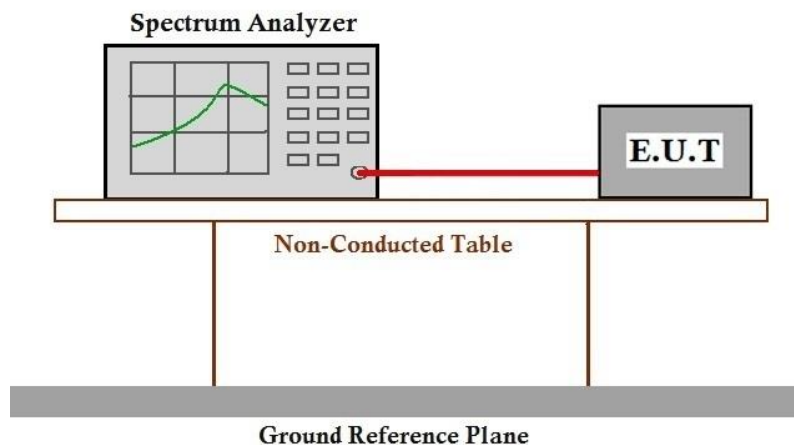
#### 7.3.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.0 °C Humidity: 43.1 % RH Atmospheric Pressure: 1015 mbar

#### 7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                          |
|-----------------------|-----------|----------------------------------------------------------------------|
| Final test            | 07        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.  |
| Final test            | 08        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.  |
| Final test            | 09        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.  |
| Final test            | 10        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.  |
| Final test            | 11        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.  |
| Final test            | 12        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.  |
| Final test            | 13        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10. |
| Final test            | 14        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10. |
| Final test            | 15        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10. |

#### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.4 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)

Test Method: ANSI C63.10 (2013) Section 7.8.2

Limit:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C

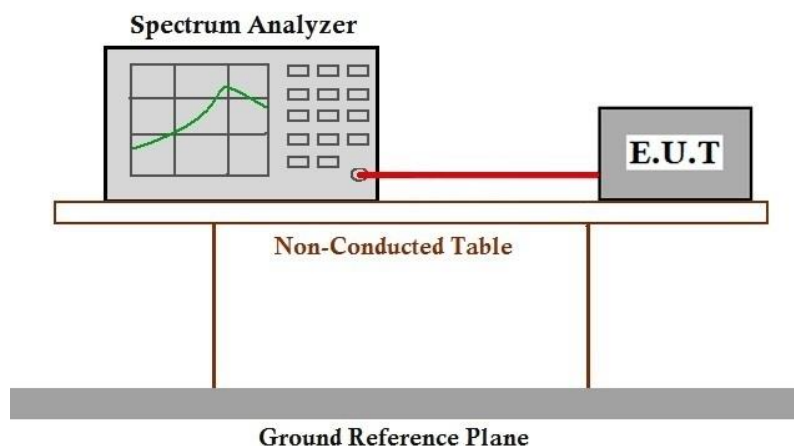
Humidity: 43.1 % RH

Atmospheric Pressure: 1015 mbar

#### 7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                    |
|-----------------------|-----------|------------------------------------------------|
| Final test            | 16        | FHSS Mode_Keep the EUT in FHSS mode with SF7.  |
| Final test            | 17        | FHSS Mode_Keep the EUT in FHSS mode with SF9.  |
| Final test            | 18        | FHSS Mode_Keep the EUT in FHSS mode with SF10. |

#### 7.4.3 Test Setup Diagram



#### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.5 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.3

Limit: N/A

#### 7.5.1 E.U.T. Operation

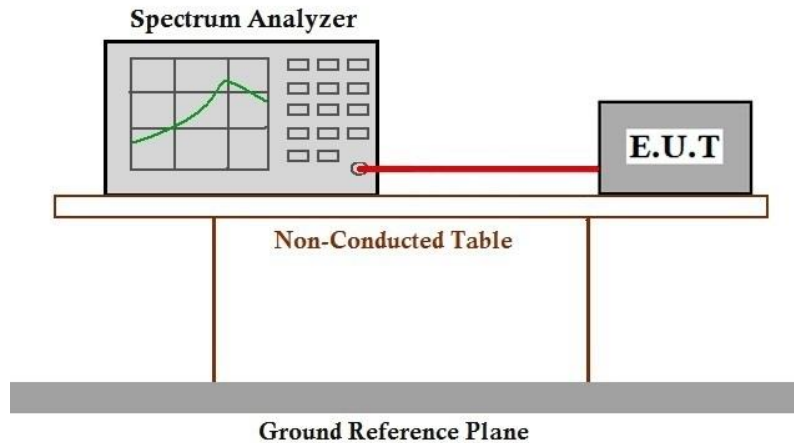
Operating Environment:

Temperature: 23.0 °C Humidity: 43.1 % RH Atmospheric Pressure: 1015 mbar

#### 7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                    |
|-----------------------|-----------|------------------------------------------------|
| Final test            | 16        | FHSS Mode_Keep the EUT in FHSS mode with SF7.  |
| Final test            | 17        | FHSS Mode_Keep the EUT in FHSS mode with SF9.  |
| Final test            | 18        | FHSS Mode_Keep the EUT in FHSS mode with SF10. |

#### 7.5.3 Test Setup Diagram



#### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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### 7.6 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

| Frequency(MHz) | Limit                                                                     |
|----------------|---------------------------------------------------------------------------|
| 902-928        | 0.4S within a 20S period(20dB bandwidth<250kHz)                           |
|                | 0.4S within a 10S period(20dB bandwidth≥250kHz)                           |
| 2400-2483.5    | 0.4S within a period of 0.4S multiplied by the number of hopping channels |
| 5725-5850      | 0.4S within a 30S period                                                  |

#### 7.6.1 E.U.T. Operation

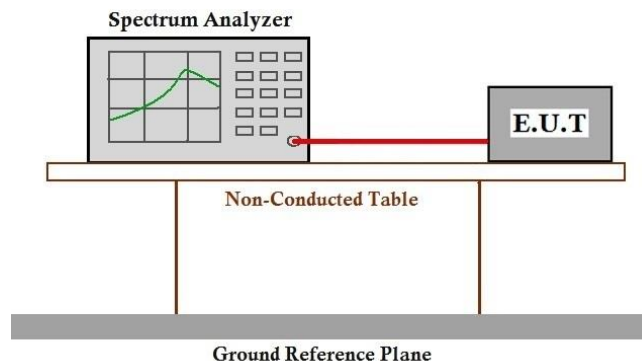
Operating Environment:

Temperature: 23.0 °C Humidity: 43.1 % RH Atmospheric Pressure: 1015 mbar

#### 7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                    |
|-----------------------|-----------|------------------------------------------------|
| Final test            | 16        | FHSS Mode_Keep the EUT in FHSS mode with SF7.  |
| Final test            | 17        | FHSS Mode_Keep the EUT in FHSS mode with SF9.  |
| Final test            | 18        | FHSS Mode_Keep the EUT in FHSS mode with SF10. |

#### 7.6.3 Test Setup Diagram



#### 7.6.4 Measurement Procedure and Data

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### 7.7 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

#### 7.7.1 E.U.T. Operation

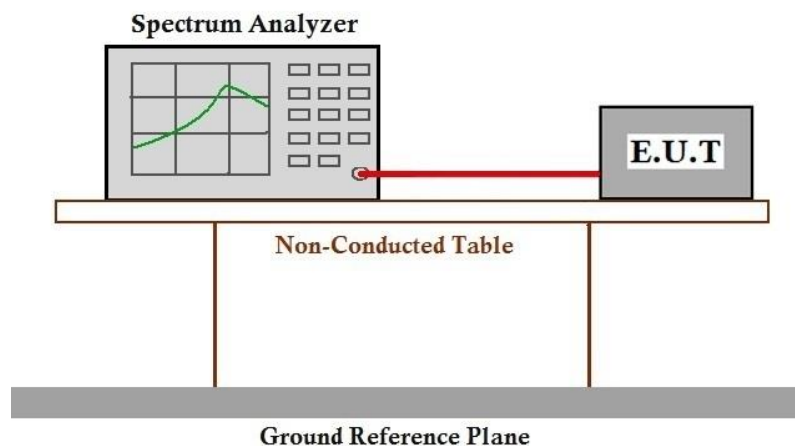
Operating Environment:

Temperature: 23.0 °C Humidity: 43.1 % RH Atmospheric Pressure: 1015 mbar

#### 7.7.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                       |
|--------------------------|--------------|-------------------------------------------------------------------|
| Final test               | 00           | DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.  |
| Final test               | 01           | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.  |
| Final test               | 02           | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.  |
| Final test               | 03           | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.  |
| Final test               | 04           | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12. |
| Final test               | 05           | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12. |
| Final test               | 06           | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12. |

#### 7.7.3 Test Setup Diagram



#### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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## 7.8 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C

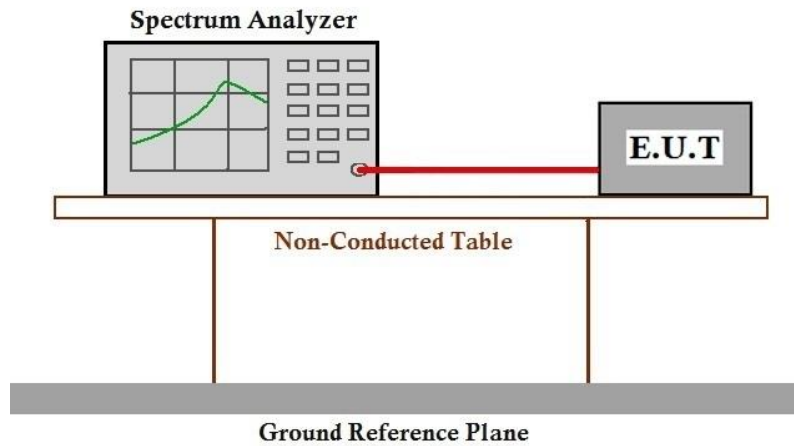
Humidity: 43.1 % RH

Atmospheric Pressure: 1015 mbar

### 7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                          |
|-----------------------|-----------|----------------------------------------------------------------------|
| Final test            | 00        | DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.     |
| Final test            | 01        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.     |
| Final test            | 02        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.     |
| Final test            | 03        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.     |
| Final test            | 04        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.    |
| Final test            | 05        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.    |
| Final test            | 06        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.    |
| Final test            | 07        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.  |
| Final test            | 08        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.  |
| Final test            | 09        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.  |
| Final test            | 10        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.  |
| Final test            | 11        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.  |
| Final test            | 12        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.  |
| Final test            | 13        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10. |
| Final test            | 14        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10. |
| Final test            | 15        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10. |

### 7.8.3 Test Setup Diagram



### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



## 7.9 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)  
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 7.9.1 E.U.T. Operation

Operating Environment:

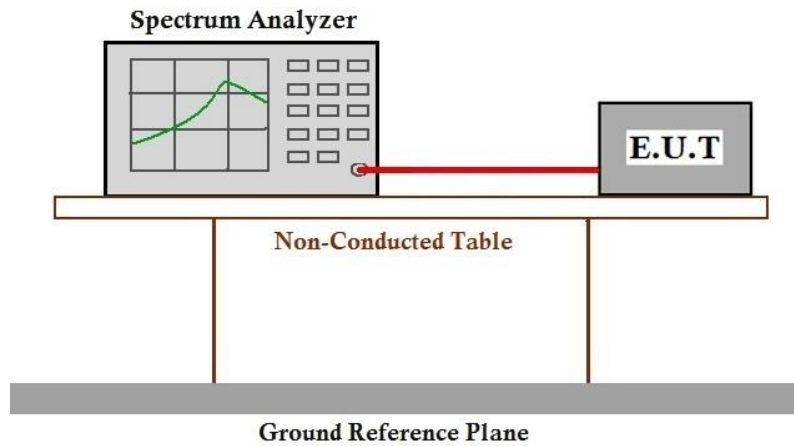
Temperature: 23.0 °C Humidity: 43.1 % RH Atmospheric Pressure: 1015 mbar

### 7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                          |
|-----------------------|-----------|----------------------------------------------------------------------|
| Final test            | 00        | DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.     |
| Final test            | 01        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.     |
| Final test            | 02        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.     |
| Final test            | 03        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.     |
| Final test            | 04        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.    |
| Final test            | 05        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.    |
| Final test            | 06        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.    |
| Final test            | 07        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.  |
| Final test            | 08        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.  |
| Final test            | 09        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.  |
| Final test            | 10        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.  |
| Final test            | 11        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.  |
| Final test            | 12        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.  |
| Final test            | 13        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10. |
| Final test            | 14        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10. |
| Final test            | 15        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10. |



### 7.9.3 Test Setup Diagram



### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



## 7.10 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C

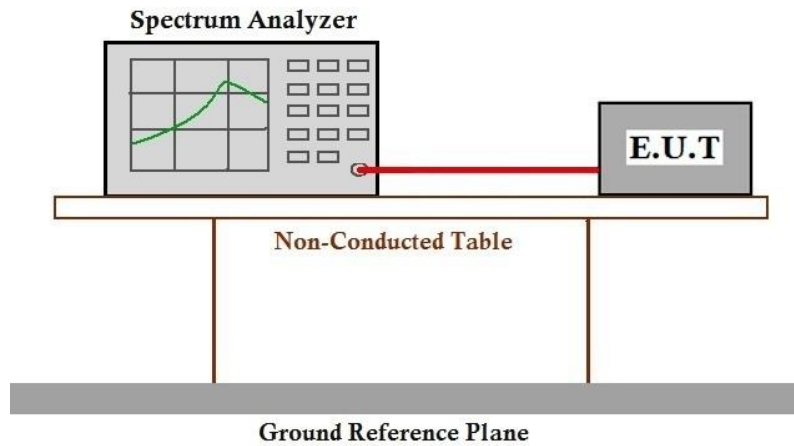
Humidity: 43.1 % RH

Atmospheric Pressure: 1015 mbar

### 7.10.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                          |
|-----------------------|-----------|----------------------------------------------------------------------|
| Final test            | 00        | DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.     |
| Final test            | 01        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.     |
| Final test            | 02        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.     |
| Final test            | 03        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.     |
| Final test            | 04        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.    |
| Final test            | 05        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.    |
| Final test            | 06        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.    |
| Final test            | 07        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.  |
| Final test            | 08        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.  |
| Final test            | 09        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.  |
| Final test            | 10        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.  |
| Final test            | 11        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.  |
| Final test            | 12        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.  |
| Final test            | 13        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10. |
| Final test            | 14        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10. |
| Final test            | 15        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10. |

### 7.10.3 Test Setup Diagram



### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.11 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209  
 Test Method: ANSI C63.10 (2013) Section 6.10.5  
 Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490    | 2400/F(kHz)                      | 300                          |
| 0.490-1.705    | 24000/F(kHz)                     | 30                           |
| 1.705-30.0     | 30                               | 30                           |
| 30-88          | 100                              | 3                            |
| 88-216         | 150                              | 3                            |
| 216-960        | 200                              | 3                            |
| Above 960      | 500                              | 3                            |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 7.11.1 E.U.T. Operation

Operating Environment:  
 Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1015 mbar

### 7.11.2 Test Mode Description

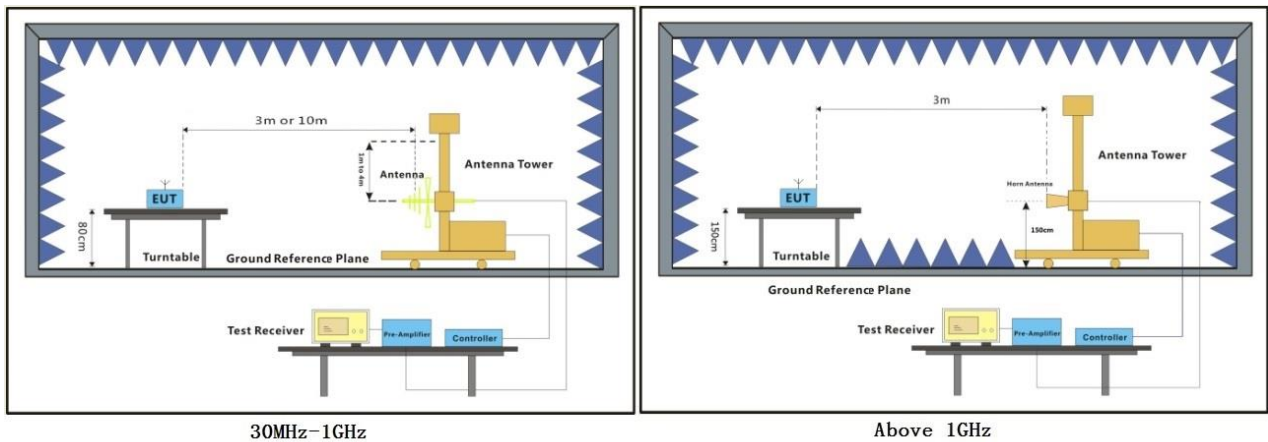
| Pre-scan / Final test | Mode Code | Description                                                         |
|-----------------------|-----------|---------------------------------------------------------------------|
| Final test            | 00        | DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.    |
| Final test            | 01        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.    |
| Pre-scan              | 02        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.    |
| Final test            | 03        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.    |
| Pre-scan              | 04        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.   |
| Pre-scan              | 05        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.   |
| Pre-scan              | 06        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.   |
| Final test            | 07        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7. |
| Pre-scan              | 08        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7. |
| Final test            | 09        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7. |



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|          |    |                                                                      |
|----------|----|----------------------------------------------------------------------|
| Pre-scan | 10 | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.  |
| Pre-scan | 11 | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.  |
| Pre-scan | 12 | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.  |
| Pre-scan | 13 | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10. |
| Pre-scan | 14 | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10. |
| Pre-scan | 15 | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10. |

### 7.11.3 Test Setup Diagram



## 7.11.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

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

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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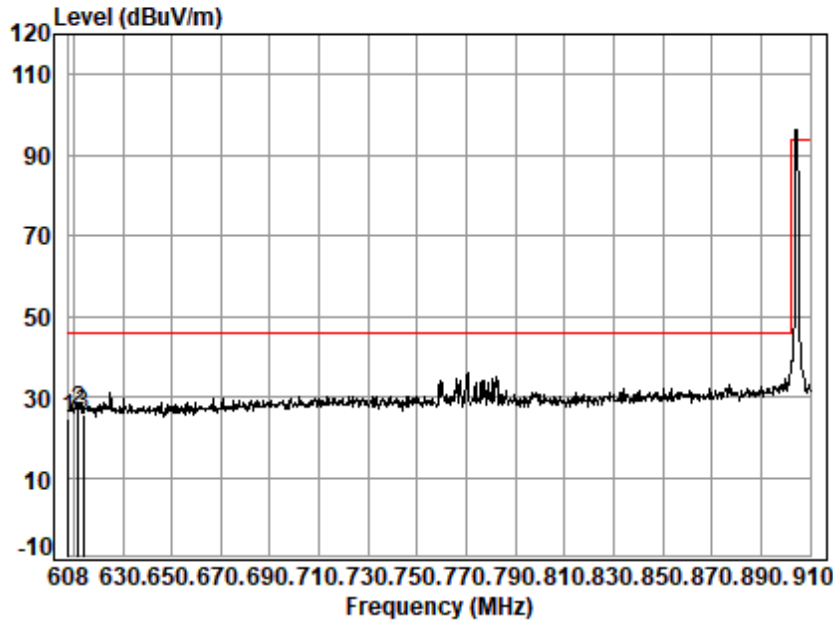
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Integral Antenna:

Test Mode: 00; Polarity: Horizontal



Test Site: 3M-chamber

HORIZONTAL

Job No.: 04132AT

Test mode: 00

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 608.00       | 24.60         | 46.00         | -21.40           |
| 2      | 611.93       | 26.47         | 46.00         | -19.53           |
| 3      | 614.04       | 25.78         | 46.00         | -20.22           |



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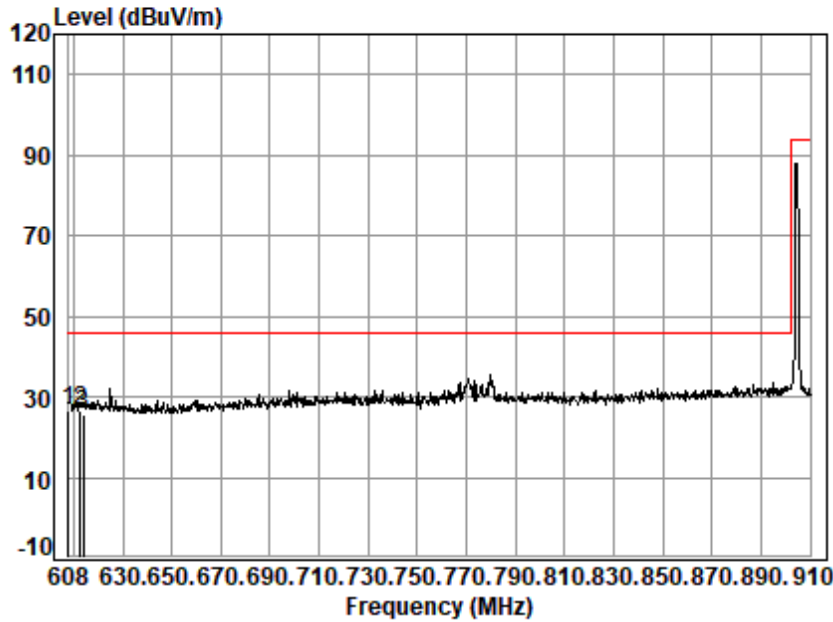
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Test Mode: 00; Polarity: Vertical



Test Site: 3M-chamber VERTICAL  
Job No.: 04132AT  
Test mode: 00

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 608.00       | 26.69         | 46.00         | -19.31           |
| 2      | 612.53       | 26.63         | 46.00         | -19.37           |
| 3      | 614.04       | 25.82         | 46.00         | -20.18           |



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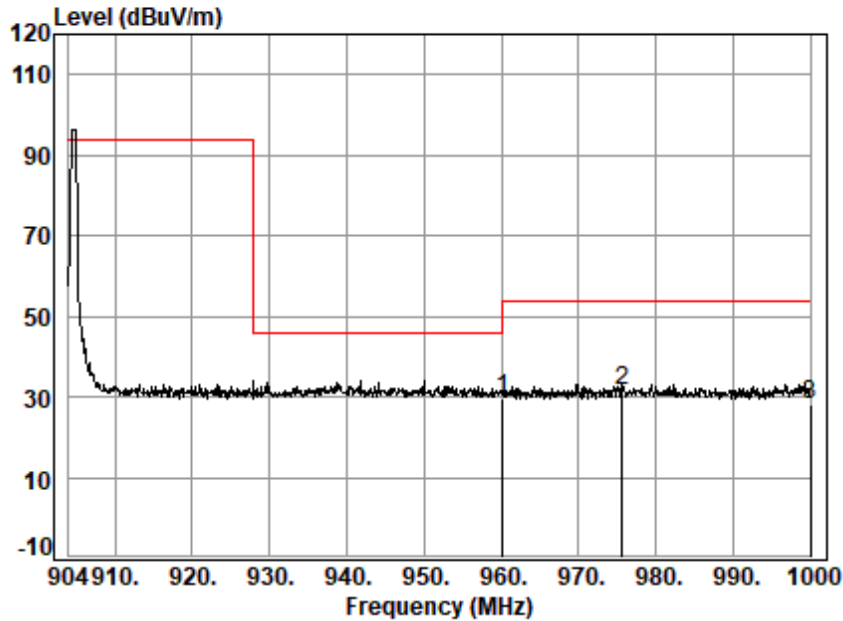
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Test Mode: 00; Polarity: Horizontal



Test Site: 3M-chamber HORIZONTAL

Job No.: 04132AT

Test mode: 00

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 960.16       | 29.54         | 54.00         | -24.46           |
| 2      | 975.62       | 31.28         | 54.00         | -22.72           |
| 3      | 1000.00      | 27.89         | 54.00         | -26.11           |



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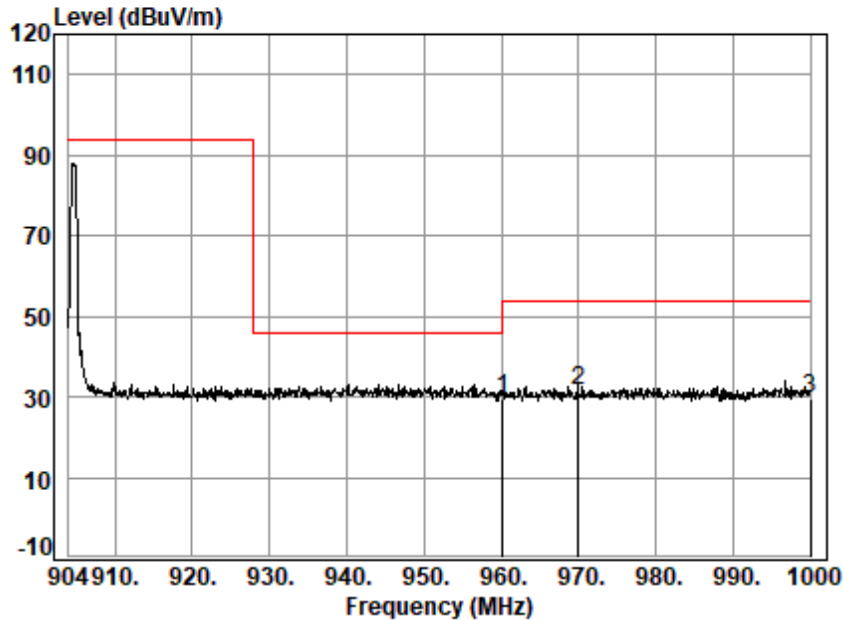
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Test Mode: 00; Polarity: Vertical



Test Site: 3M-chamber VERTICAL  
Job No.: 04132AT  
Test mode: 00

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 960.16       | 29.33         | 54.00         | -24.67           |
| 2      | 969.95       | 31.53         | 54.00         | -22.47           |
| 3      | 1000.00      | 29.73         | 54.00         | -24.27           |



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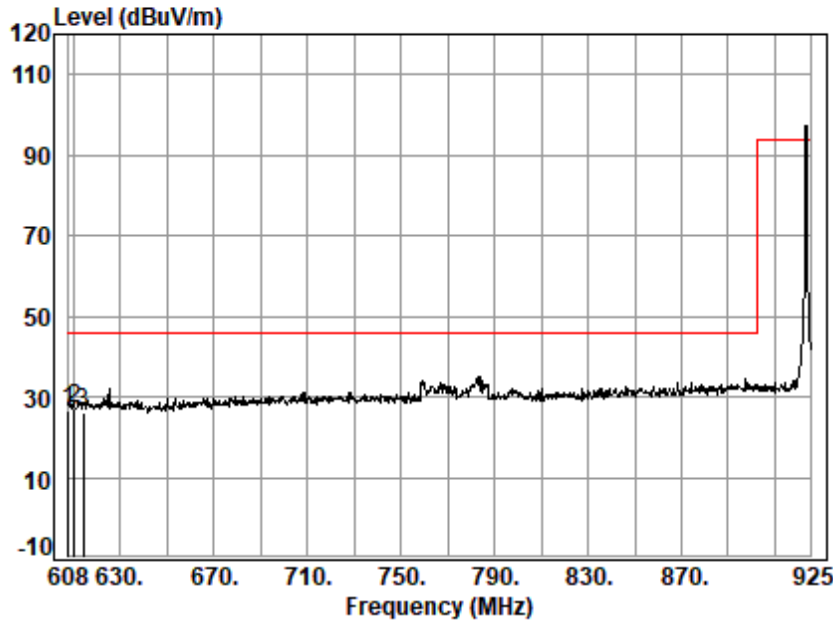
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Test Mode: 01; Polarity: Horizontal



Test Site: 3M-chamber HORIZONTAL  
Job No.: 04132AT  
Test mode: 01

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 608.00       | 26.61         | 46.00         | -19.39           |
| 2      | 610.22       | 26.91         | 46.00         | -19.09           |
| 3      | 614.02       | 26.27         | 46.00         | -19.73           |



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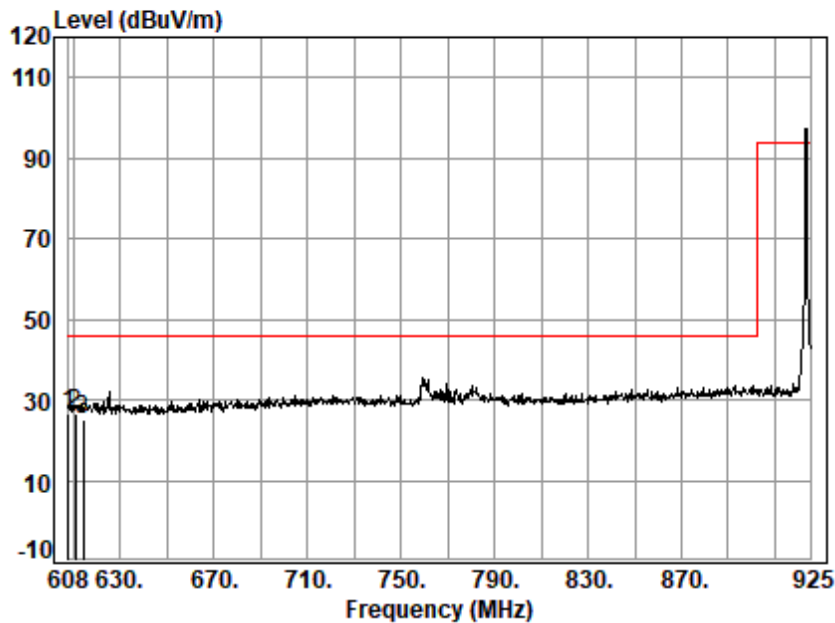
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Test Mode: 01; Polarity: Vertical



Test Site: 3M-chamber VERTICAL  
Job No.: 04132AT  
Test mode: 01

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 608.00       | 26.67         | 46.00         | -19.33           |
| 2      | 610.85       | 26.47         | 46.00         | -19.53           |
| 3      | 614.02       | 25.27         | 46.00         | -20.73           |



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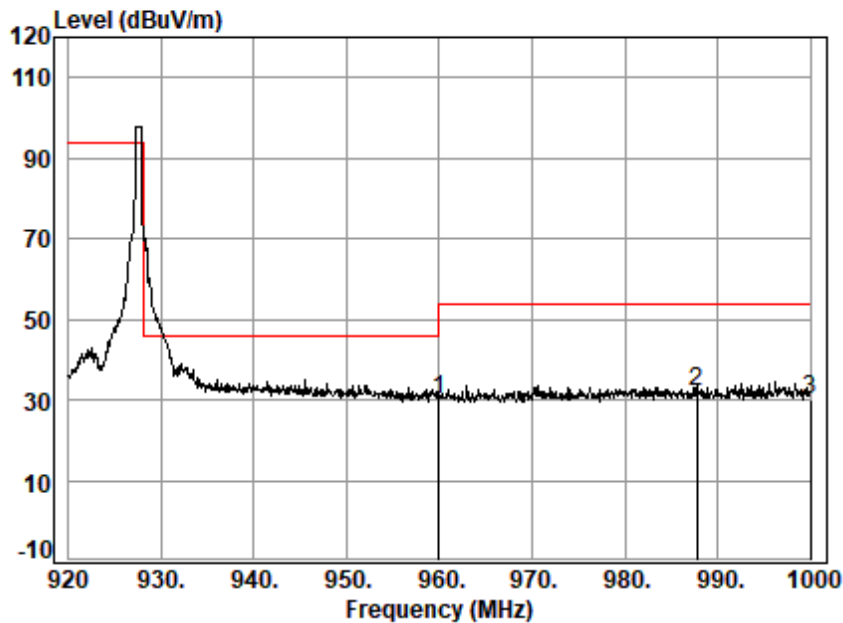
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Test Mode: 03; Polarity: Horizontal



Test Site: 3M-chamber HORIZONTAL  
Job No.: 04132AT  
Test mode: 03

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 960.00       | 29.84         | 46.00         | -16.16           |
| 2      | 987.76       | 32.04         | 54.00         | -21.96           |
| 3      | 1000.00      | 29.89         | 54.00         | -24.11           |



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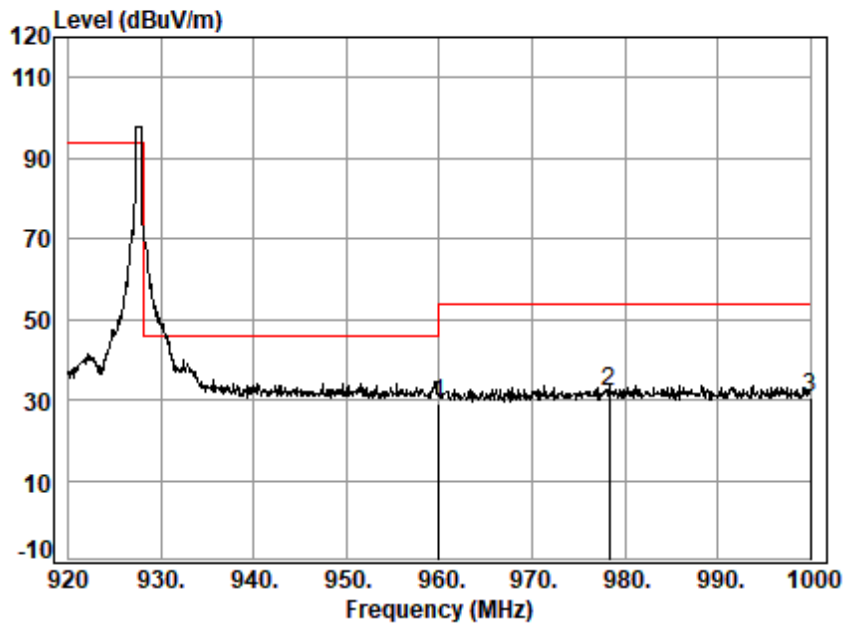
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Test Mode: 03; Polarity: Vertical



Test Site: 3M-chamber VERTICAL  
Job No.: 04132AT  
Test mode: 03

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 960.00       | 28.86         | 46.00         | -17.14           |
| 2      | 978.32       | 31.90         | 54.00         | -22.10           |
| 3      | 1000.00      | 30.58         | 54.00         | -23.42           |



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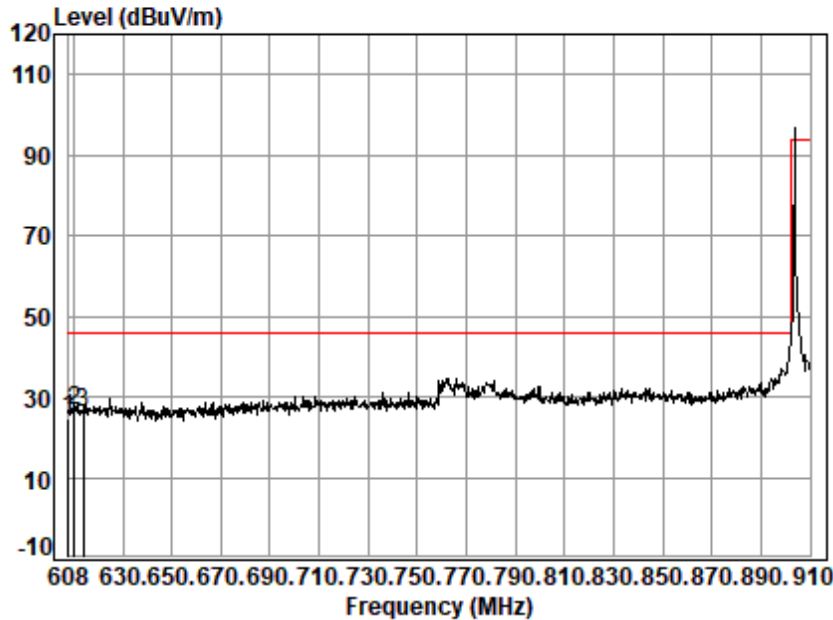
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Test Mode: 07; Polarity: Horizontal



Test Site: 3M-chamber HORIZONTAL  
Job No.: 04132AT  
Test mode: 07

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 608.00       | 24.65         | 46.00         | -21.35           |
| 2      | 610.11       | 26.73         | 46.00         | -19.27           |
| 3      | 614.04       | 26.07         | 46.00         | -19.93           |



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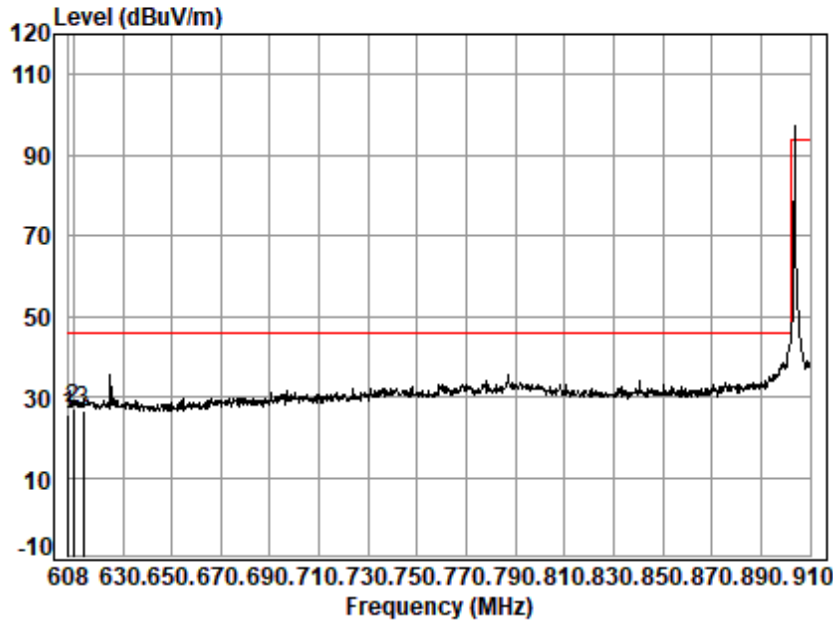
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

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Test Mode: 07; Polarity: Vertical



Test Site: 3M-chamber VERTICAL  
Job No.: 04132AT  
Test mode: 07

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 608.00       | 25.39         | 46.00         | -20.61           |
| 2      | 609.81       | 27.28         | 46.00         | -18.72           |
| 3      | 614.04       | 26.62         | 46.00         | -19.38           |



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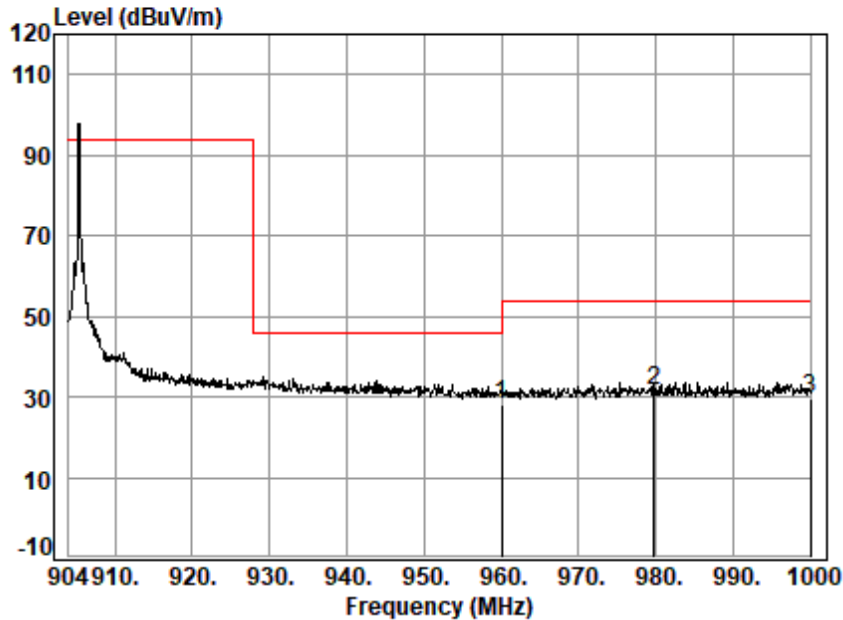
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Test Mode: 09; Polarity: Horizontal



Test Site: 3M-chamber

HORIZONTAL

Job No.: 04132AT

Test mode: 09

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 960.06       | 28.29         | 54.00         | -25.71           |
| 2      | 979.84       | 31.57         | 54.00         | -22.43           |
| 3      | 1000.00      | 29.38         | 54.00         | -24.62           |



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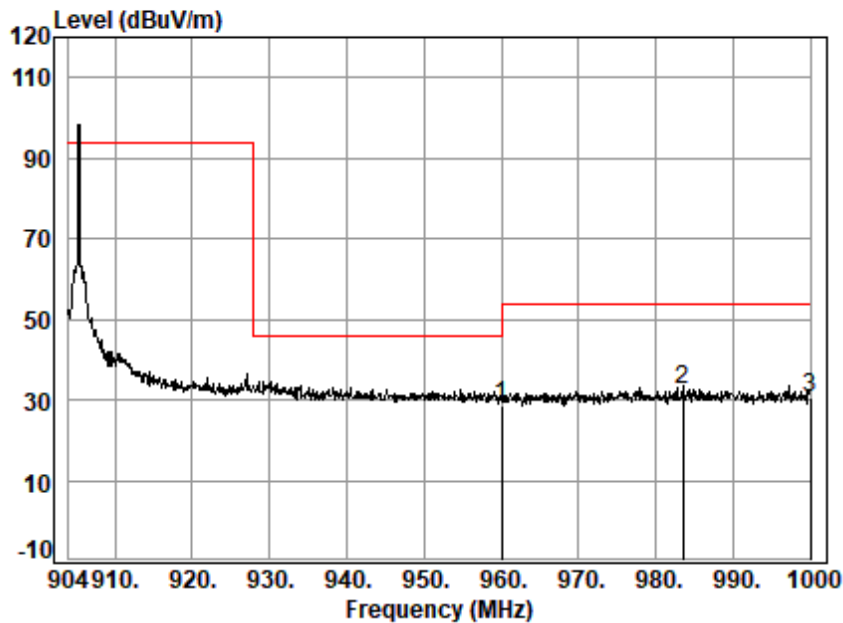
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Test Mode: 09; Polarity: Vertical



Test Site: 3M-chamber VERTICAL  
Job No.: 04132AT  
Test mode: 09

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 960.06       | 28.67         | 54.00         | -25.33           |
| 2      | 983.49       | 32.32         | 54.00         | -21.68           |
| 3      | 1000.00      | 30.54         | 54.00         | -23.46           |



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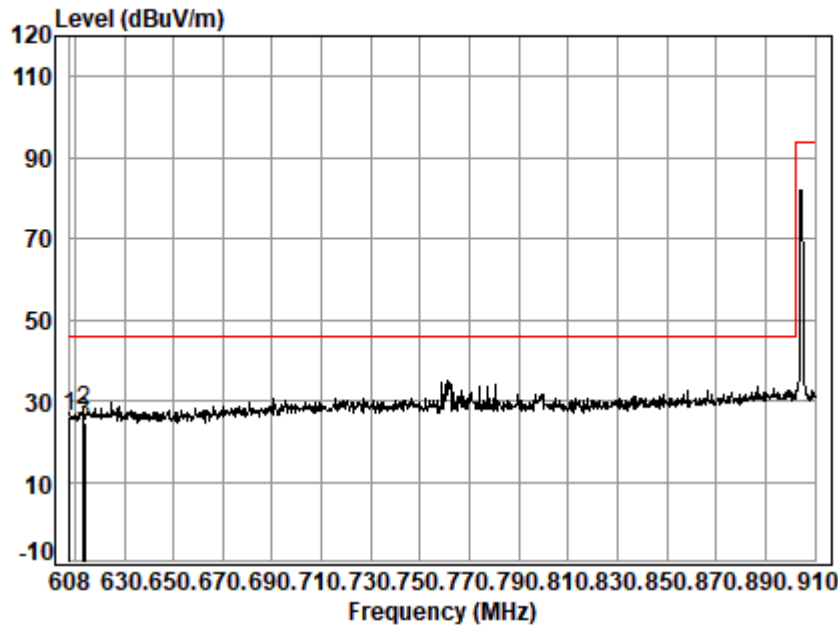
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Fiberglass Antenna 1

Test Mode: 00; Polarity: Horizontal



Test Site: 3M-chamber HORIZONTAL

Job No.: 04132AT

Test mode: 00

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 608.00       | 26.22         | 46.00         | -19.78           |
| 2      | 613.44       | 27.54         | 46.00         | -18.46           |
| 3      | 614.04       | 24.68         | 46.00         | -21.32           |



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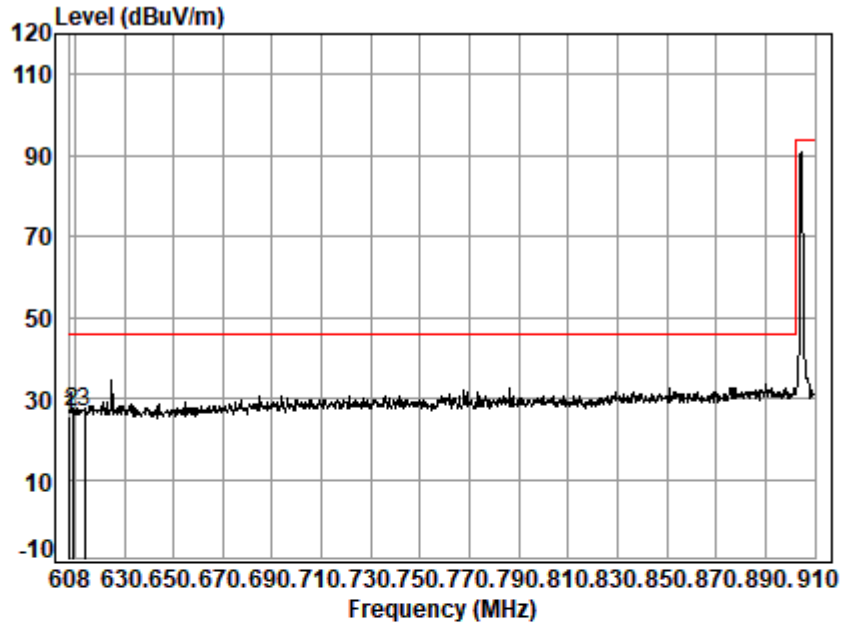
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Test Mode: 00; Polarity: Vertical



Test Site: 3M-chamber VERTICAL  
Job No.: 04132AT  
Test mode: 00

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 608.00       | 25.45         | 46.00         | -20.55           |
| 2      | 609.21       | 26.64         | 46.00         | -19.36           |
| 3      | 614.04       | 26.37         | 46.00         | -19.63           |



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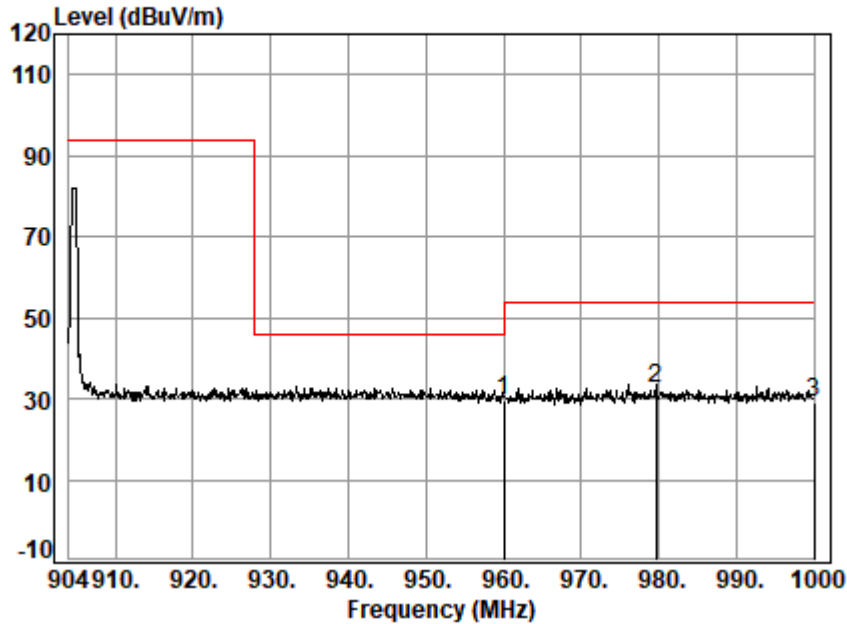
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Test Mode: 00; Polarity: Horizontal



Test Site: 3M-chamber HORIZONTAL  
Job No.: 04132AT  
Test mode: 00

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 960.06       | 29.68         | 54.00         | -24.32           |
| 2      | 979.65       | 32.70         | 54.00         | -21.30           |
| 3      | 1000.00      | 29.20         | 54.00         | -24.80           |



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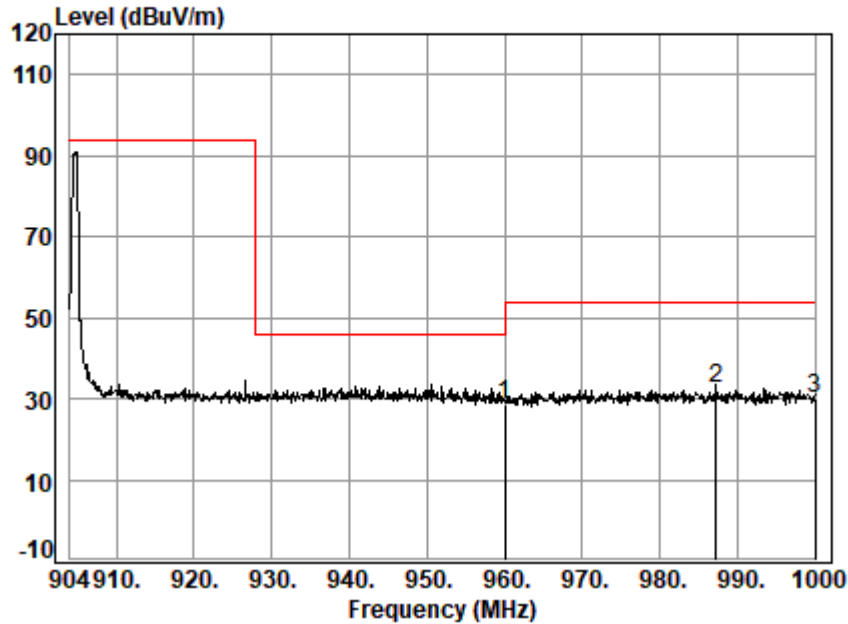
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Test Mode: 00; Polarity: Vertical



Test Site: 3M-chamber VERTICAL  
Job No.: 04132AT  
Test mode: 00

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 960.06       | 28.58         | 54.00         | -25.42           |
| 2      | 987.23       | 32.35         | 54.00         | -21.65           |
| 3      | 1000.00      | 30.28         | 54.00         | -23.72           |



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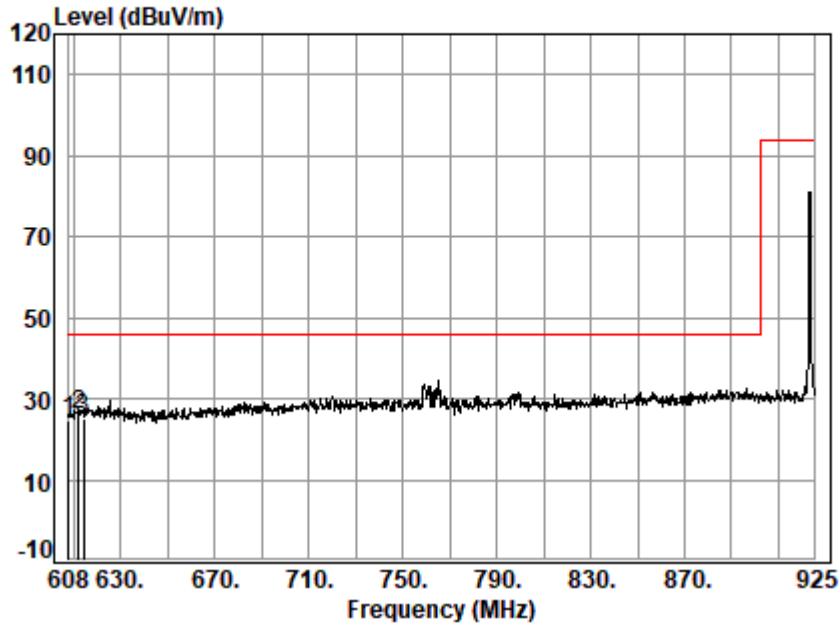
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Test Mode: 01; Polarity: Horizontal



Test Site: 3M-chamber HORIZONTAL  
Job No.: 04132AT  
Test mode: 01

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 608.00       | 24.49         | 46.00         | -21.51           |
| 2      | 612.12       | 26.30         | 46.00         | -19.70           |
| 3      | 614.02       | 25.13         | 46.00         | -20.87           |



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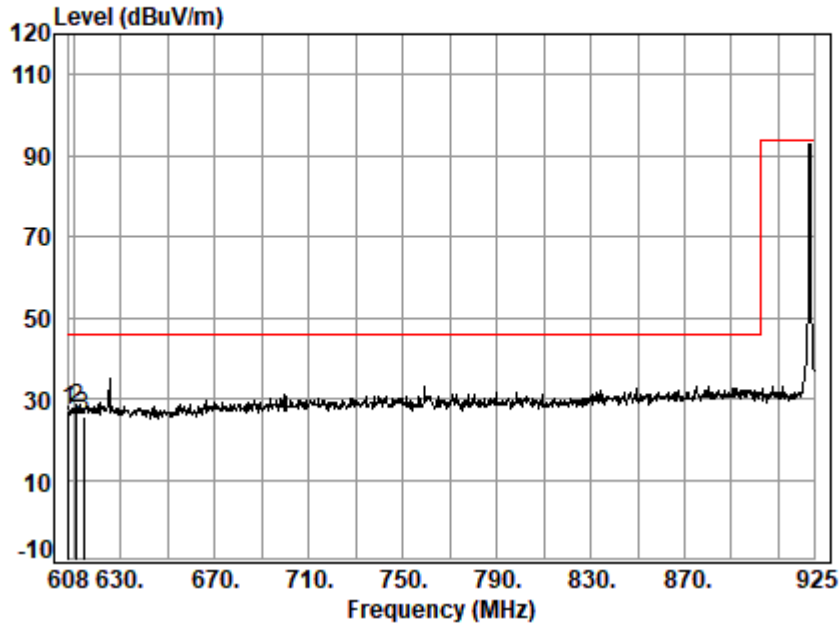
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Test Mode: 01; Polarity: Vertical



Test Site: 3M-chamber VERTICAL  
Job No.: 04132AT  
Test mode: 01

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 608.00       | 26.83         | 46.00         | -19.17           |
| 2      | 611.17       | 27.56         | 46.00         | -18.44           |
| 3      | 614.02       | 25.54         | 46.00         | -20.46           |



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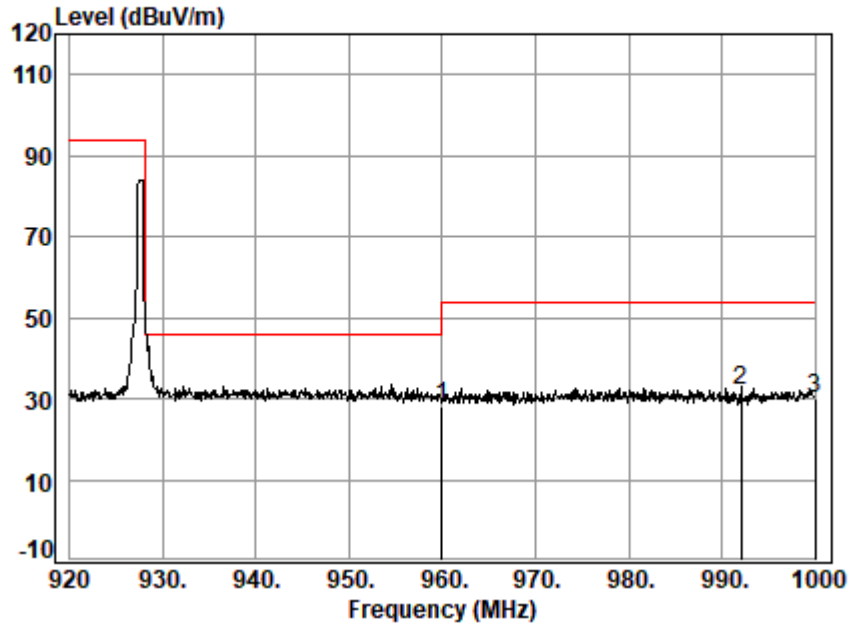
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Test Mode: 03; Polarity: Horizontal



Test Site: 3M-chamber HORIZONTAL  
Job No.: 04132AT  
Test mode: 03

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 960.00       | 28.11         | 46.00         | -17.89           |
| 2      | 992.08       | 31.77         | 54.00         | -22.23           |
| 3      | 1000.00      | 29.99         | 54.00         | -24.01           |



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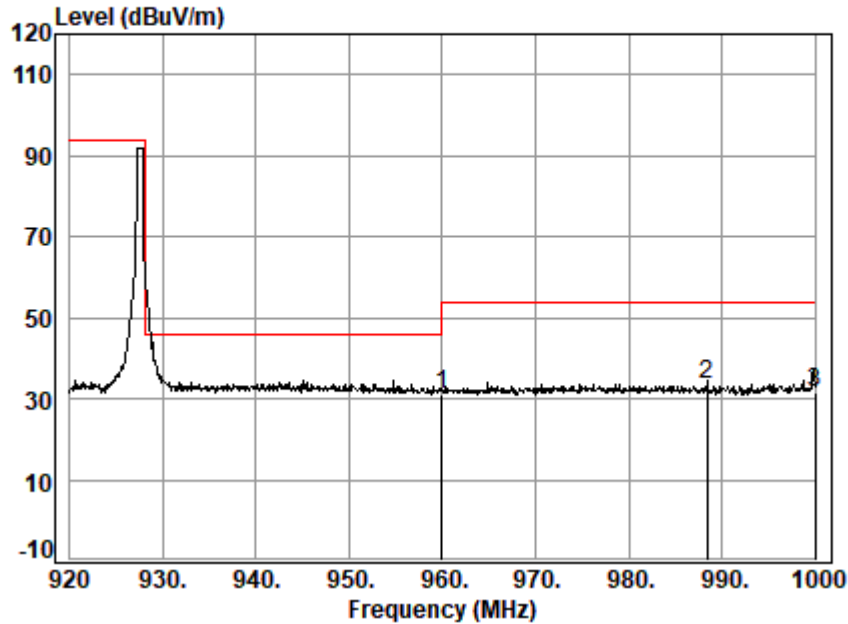
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 03; Polarity: Vertical



Test Site: 3M-chamber VERTICAL  
Job No.: 04132AT  
Test mode: 03

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 960.00       | 30.85         | 46.00         | -15.15           |
| 2      | 988.40       | 33.35         | 54.00         | -20.65           |
| 3      | 1000.00      | 31.38         | 54.00         | -22.62           |



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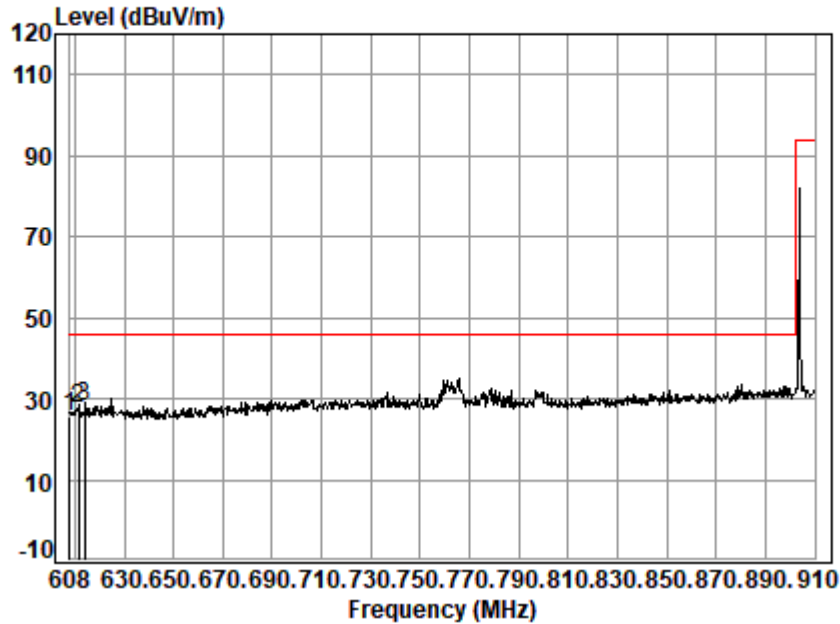
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Test Mode: 07; Polarity: Horizontal



Test Site: 3M-chamber HORIZONTAL  
Job No.: 04132AT  
Test mode: 07

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 608.00       | 25.44         | 46.00         | -20.56           |
| 2      | 611.62       | 27.38         | 46.00         | -18.62           |
| 3      | 614.04       | 27.95         | 46.00         | -18.05           |



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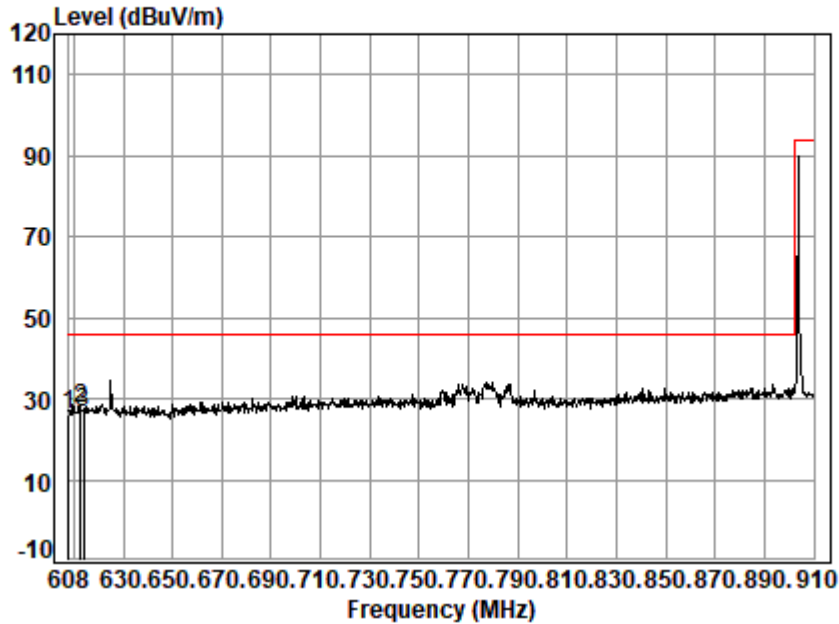
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Test Mode: 07; Polarity: Vertical



Test Site: 3M-chamber VERTICAL  
Job No.: 04132AT  
Test mode: 07

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 608.00       | 26.12         | 46.00         | -19.88           |
| 2      | 612.53       | 27.43         | 46.00         | -18.57           |
| 3      | 614.04       | 26.79         | 46.00         | -19.21           |



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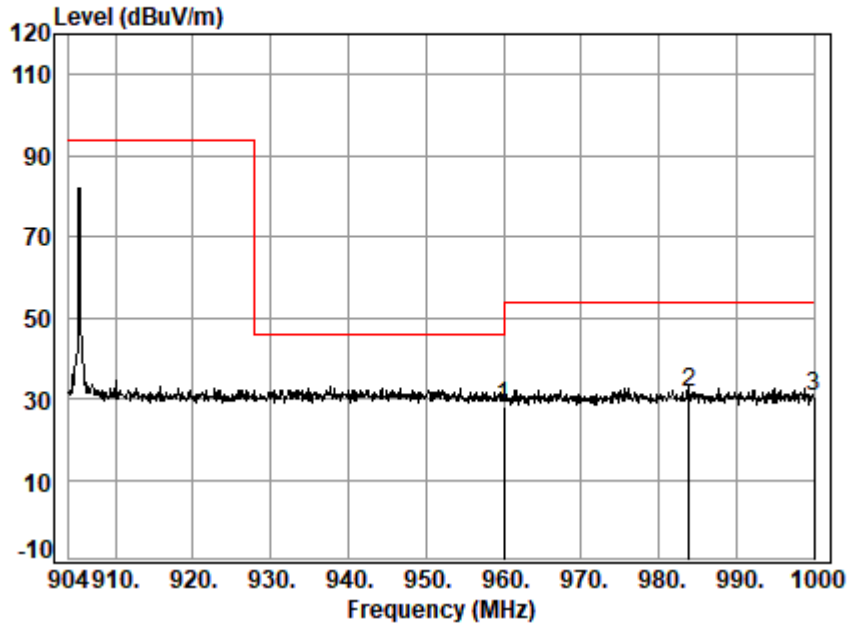
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Test Mode: 09; Polarity: Horizontal



Test Site: 3M-chamber HORIZONTAL  
Job No.: 04132AT  
Test mode: 09

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 960.06       | 28.30         | 54.00         | -25.70           |
| 2      | 983.97       | 31.77         | 54.00         | -22.23           |
| 3      | 1000.00      | 30.63         | 54.00         | -23.37           |



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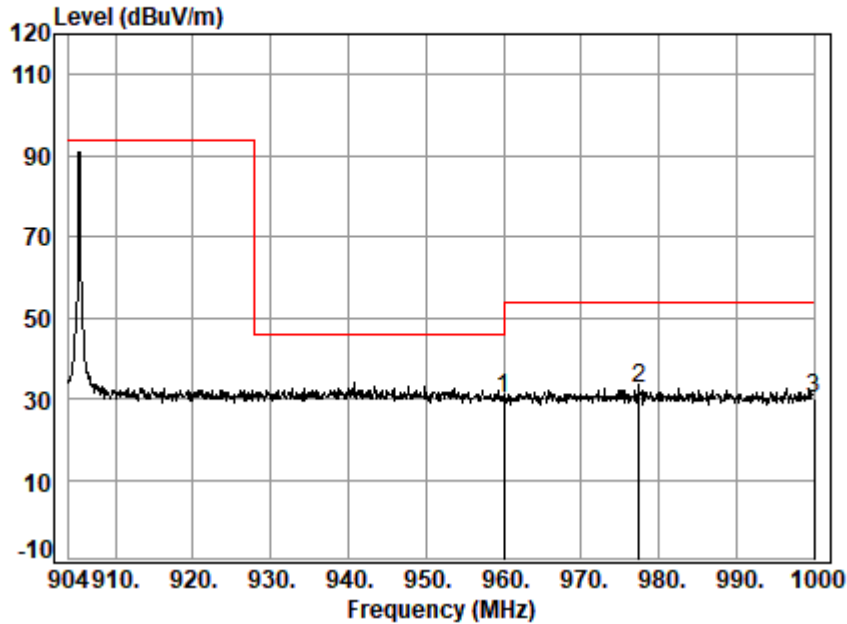
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Test Mode: 09; Polarity: Vertical



Test Site: 3M-chamber VERTICAL  
Job No.: 04132AT  
Test mode: 09

| Marker | Freq.<br>MHz | Level<br>dBuV | Limit<br>dBuV | Over Limit<br>dB |
|--------|--------------|---------------|---------------|------------------|
| 1      | 960.06       | 29.99         | 54.00         | -24.01           |
| 2      | 977.44       | 32.38         | 54.00         | -21.62           |
| 3      | 1000.00      | 30.11         | 54.00         | -23.89           |



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## 7.12 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490    | 2400/F(kHz)                      | 300                          |
| 0.490-1.705    | 24000/F(kHz)                     | 30                           |
| 1.705-30.0     | 30                               | 30                           |
| 30-88          | 100                              | 3                            |
| 88-216         | 150                              | 3                            |
| 216-960        | 200                              | 3                            |
| 960-1000       | 500                              | 3                            |

### 7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 47.6 % RH

Atmospheric Pressure: 1015 mbar

### 7.12.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                          |
|-----------------------|-----------|----------------------------------------------------------------------|
| Final test            | 00        | DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.     |
| Pre-scan              | 01        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.     |
| Pre-scan              | 02        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.     |
| Pre-scan              | 03        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.     |
| Pre-scan              | 04        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.    |
| Pre-scan              | 05        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.    |
| Pre-scan              | 06        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.    |
| Pre-scan              | 07        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.  |
| Pre-scan              | 08        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.  |
| Pre-scan              | 09        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.  |
| Pre-scan              | 10        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.  |
| Pre-scan              | 11        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.  |
| Pre-scan              | 12        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.  |
| Pre-scan              | 13        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10. |
| Pre-scan              | 14        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10. |



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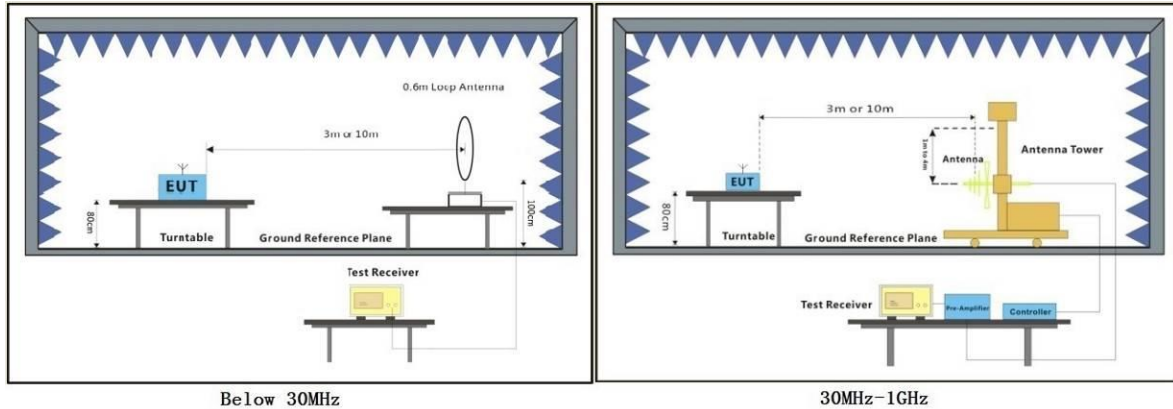
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|          |    |                                                                      |
|----------|----|----------------------------------------------------------------------|
| Pre-scan | 15 | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10. |
|----------|----|----------------------------------------------------------------------|

### 7.12.3 Test Setup Diagram



## 7.12.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- k) Pre-scan the EUT with integral antenna and Fiberglass antenna 1, the highest emissions could be found when testing, so only the Fiberglass antenna 1 had been displayed.

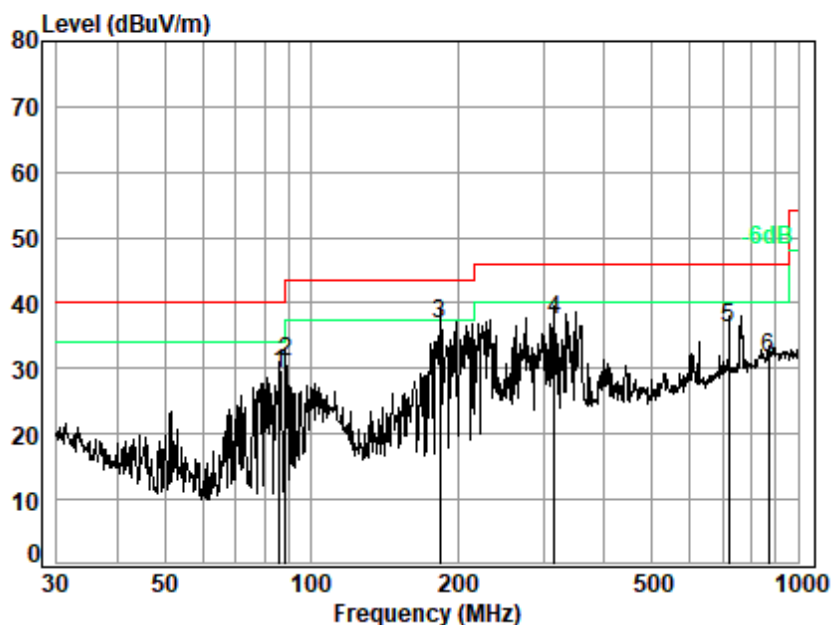
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Test Mode: 00; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 04132AT  
Test Mode: 00

|     |        | Ant    | Cable | Preamp | Read  | Limit  | Over   |           |
|-----|--------|--------|-------|--------|-------|--------|--------|-----------|
|     | Freq   | Factor | Loss  | Factor | Level | Level  | Line   | Remark    |
|     | MHz    | dB/m   | dB    | dB     | dBuV  | dBuV/m | dBuV/m | dB        |
| 1   | 86.20  | 11.43  | 1.06  | 27.05  | 43.61 | 29.05  | 40.00  | -10.95 QP |
| 2   | 88.65  | 11.75  | 1.08  | 27.04  | 45.13 | 30.92  | 43.50  | -12.58 QP |
| 3 q | 183.84 | 14.69  | 1.60  | 26.66  | 47.26 | 36.89  | 43.50  | -6.61 QP  |
| 4   | 315.48 | 18.79  | 2.18  | 26.25  | 42.73 | 37.45  | 46.00  | -8.55 QP  |
| 5   | 721.73 | 26.82  | 3.48  | 26.61  | 32.37 | 36.06  | 46.00  | -9.94 QP  |
| 6   | 869.13 | 27.97  | 3.92  | 26.02  | 25.73 | 31.60  | 46.00  | -14.40 QP |



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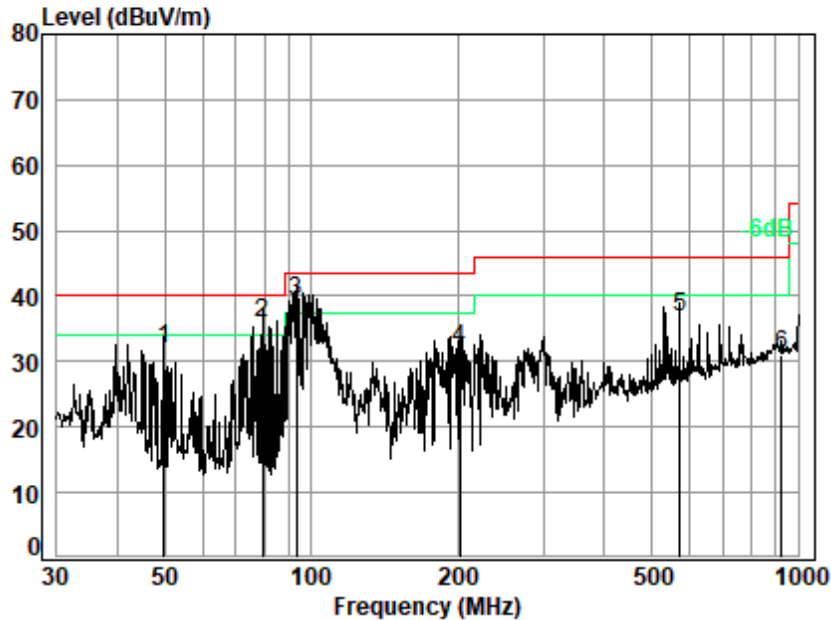
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Report No.: SZCR221200413202

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Test Mode: 00; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 04132AT  
Test Mode: 00

|     |        | Ant    | Cable | Preamp | Read  |        | Limit  | Over   |        |
|-----|--------|--------|-------|--------|-------|--------|--------|--------|--------|
|     | Freq   | Factor | Loss  | Factor | Level | Level  | Line   | Limit  | Remark |
|     | MHz    | dB/m   | dB    | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1   | 49.71  | 12.60  | 0.79  | 27.17  | 45.59 | 31.81  | 40.00  | -8.19  | QP     |
| 2 q | 79.52  | 10.66  | 1.01  | 27.07  | 51.29 | 35.89  | 40.00  | -4.11  | QP     |
| 3   | 93.11  | 12.49  | 1.11  | 27.02  | 52.67 | 39.25  | 43.50  | -4.25  | QP     |
| 4   | 202.10 | 14.57  | 1.70  | 26.59  | 42.21 | 31.89  | 43.50  | -11.61 | QP     |
| 5   | 570.61 | 23.86  | 3.03  | 27.01  | 36.95 | 36.83  | 46.00  | -9.17  | QP     |
| 6   | 925.76 | 28.43  | 4.09  | 25.80  | 24.34 | 31.06  | 46.00  | -14.94 | QP     |



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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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## 7.13 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| Above 1000     | 500                              | 3                            |

### 7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 20.8 °C Humidity: 69.1 % RH Atmospheric Pressure: 1015 mbar

### 7.13.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                          |
|-----------------------|-----------|----------------------------------------------------------------------|
| Final test            | 00        | DTS Mode_Keep the EUT in transmitting mode in 904.6MHz with SF8.     |
| Final test            | 01        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF7.     |
| Final test            | 02        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF7.     |
| Final test            | 03        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF7.     |
| Final test            | 04        | DTS Mode_Keep the EUT in transmitting mode in 923.3MHz with SF12.    |
| Final test            | 05        | DTS Mode_Keep the EUT in transmitting mode in 925.1MHz with SF12.    |
| Final test            | 06        | DTS Mode_Keep the EUT in transmitting mode in 927.5MHz with SF12.    |
| Final test            | 07        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF7.  |
| Final test            | 08        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF7.  |
| Final test            | 09        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF7.  |
| Final test            | 10        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF9.  |
| Final test            | 11        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF9.  |
| Final test            | 12        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF9.  |
| Final test            | 13        | Hybrid Mode_Keep the EUT in transmitting mode in 903.9MHz with SF10. |
| Final test            | 14        | Hybrid Mode_Keep the EUT in transmitting mode in 904.5MHz with SF10. |
| Final test            | 15        | Hybrid Mode_Keep the EUT in transmitting mode in 905.3MHz with SF10. |



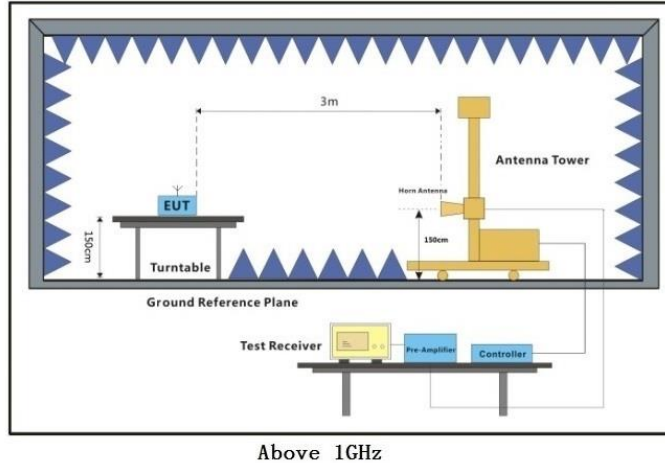
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### 7.13.3 Test Setup Diagram



## 7.13.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- k) Pre-scan the EUT with integral antenna and Fiberglass antenna 1, the highest emissions could be found when testing, so only the Fiberglass antenna 1 had been displayed.

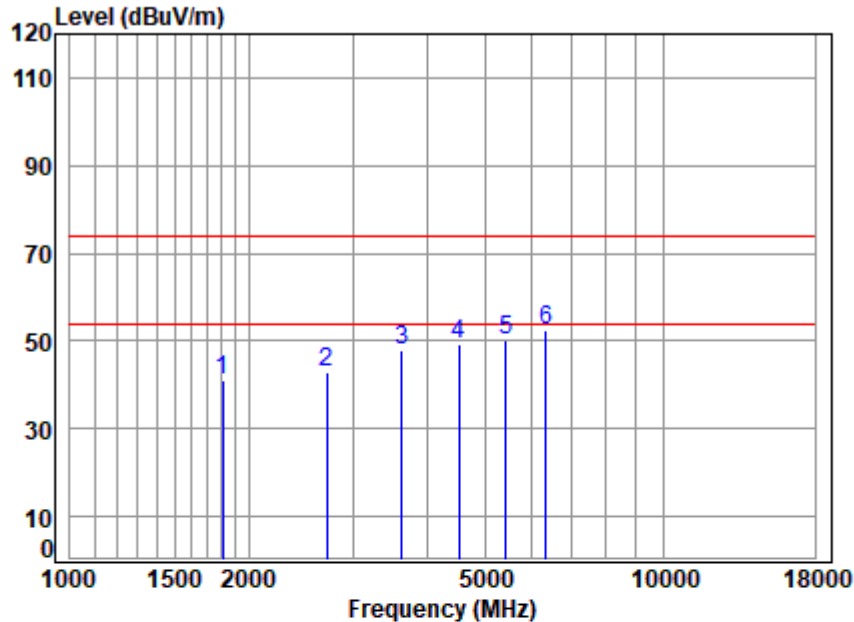
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 00; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04132AT  
Mode : 904.6M RSE TX

|      | Cable | Ant    | Preamp | Read  | Limit  | Over   |        |
|------|-------|--------|--------|-------|--------|--------|--------|
| Freq | Loss  | Factor | Factor | Level | Level  | Line   | Limit  |
| MHz  | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |
| 1    | 3.61  | 27.06  | 36.17  | 46.75 | 41.25  | 74.00  | -32.75 |
| 2    | 4.56  | 29.50  | 35.53  | 44.25 | 42.78  | 74.00  | -31.22 |
| 3    | 5.77  | 31.97  | 34.72  | 44.70 | 47.72  | 74.00  | -26.28 |
| 4    | 6.79  | 33.45  | 34.69  | 43.79 | 49.34  | 74.00  | -24.66 |
| 5    | 7.64  | 34.56  | 35.01  | 43.18 | 50.37  | 74.00  | -23.63 |
| 6    | 8.22  | 35.20  | 35.34  | 44.21 | 52.29  | 74.00  | -21.71 |



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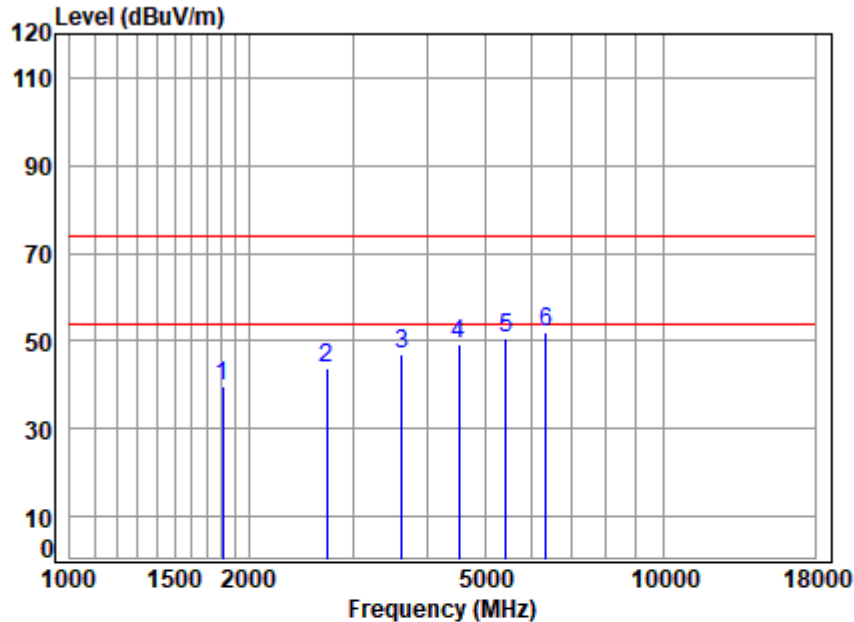
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 00; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04132AT  
Mode : 904.6M RSE TX

|   |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | 1809.200 | 3.61  | 27.06  | 36.17  | 45.31 | 39.81  | 74.00  | -34.19 Peak  |
| 2 | 2713.800 | 4.56  | 29.50  | 35.53  | 45.05 | 43.58  | 74.00  | -30.42 Peak  |
| 3 | 3618.400 | 5.77  | 31.97  | 34.72  | 44.07 | 47.09  | 74.00  | -26.91 Peak  |
| 4 | 4523.000 | 6.79  | 33.45  | 34.69  | 43.75 | 49.30  | 74.00  | -24.70 Peak  |
| 5 | 5427.600 | 7.64  | 34.56  | 35.01  | 43.67 | 50.86  | 74.00  | -23.14 Peak  |
| 6 | 6332.200 | 8.22  | 35.20  | 35.34  | 44.14 | 52.22  | 74.00  | -21.78 Peak  |



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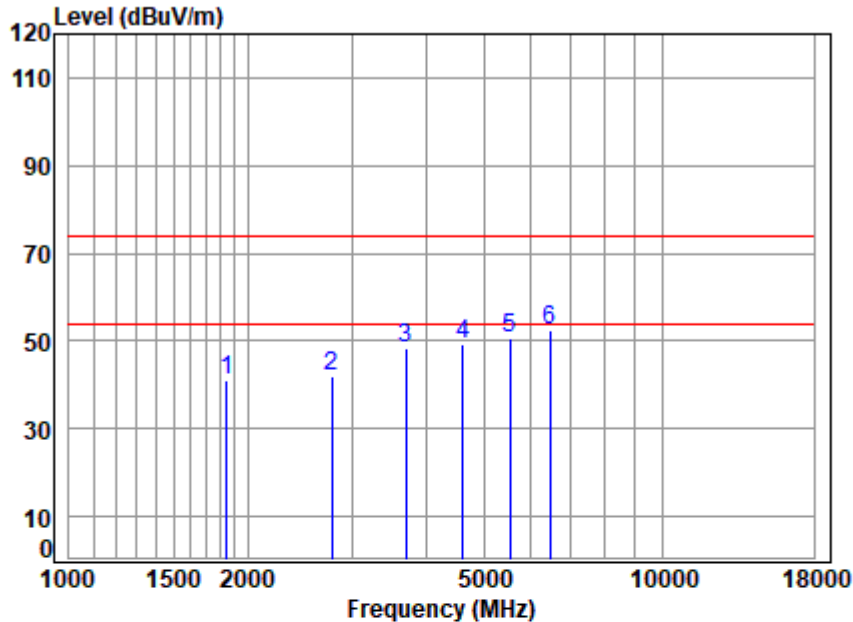
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 01; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04132AT  
Mode : 923.3M RSE TX

|      | Cable    | Ant    | Preamp | Read  | Limit  | Over   |                   |
|------|----------|--------|--------|-------|--------|--------|-------------------|
| Freq | Loss     | Factor | Factor | Level | Level  | Line   | Limit             |
| MHz  | dB       | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB                |
| 1    | 1846.600 | 3.65   | 27.28  | 36.09 | 46.16  | 41.00  | 74.00 -33.00 Peak |
| 2    | 2769.900 | 4.61   | 29.50  | 35.52 | 43.58  | 42.17  | 74.00 -31.83 Peak |
| 3    | 3693.200 | 5.87   | 32.27  | 34.64 | 45.01  | 48.51  | 74.00 -25.49 Peak |
| 4    | 4616.500 | 6.88   | 33.50  | 34.75 | 43.45  | 49.08  | 74.00 -24.92 Peak |
| 5    | 5539.800 | 7.74   | 34.60  | 35.01 | 43.46  | 50.79  | 74.00 -23.21 Peak |
| 6    | 6463.100 | 8.24   | 35.43  | 35.46 | 44.28  | 52.49  | 74.00 -21.51 Peak |



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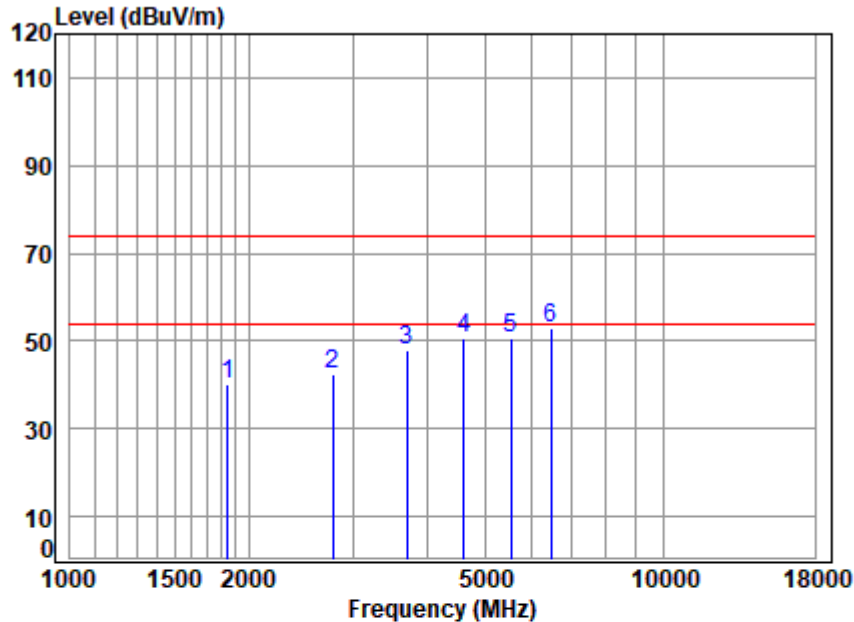
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

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Test Mode: 01; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 04132AT

Mode : 923.3M RSE TX

|      | Cable    | Ant    | Preamp | Read  | Limit  | Over   |       |             |
|------|----------|--------|--------|-------|--------|--------|-------|-------------|
| Freq | Loss     | Factor | Factor | Level | Level  | Line   | Limit | Remark      |
| MHz  | dB       | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB    |             |
| 1    | 1846.600 | 3.65   | 27.28  | 36.09 | 45.31  | 40.15  | 74.00 | -33.85 Peak |
| 2    | 2769.900 | 4.61   | 29.50  | 35.52 | 43.95  | 42.54  | 74.00 | -31.46 Peak |
| 3    | 3693.200 | 5.87   | 32.27  | 34.64 | 44.35  | 47.85  | 74.00 | -26.15 Peak |
| 4    | 4616.500 | 6.88   | 33.50  | 34.75 | 45.03  | 50.66  | 74.00 | -23.34 Peak |
| 5    | 5539.800 | 7.74   | 34.60  | 35.01 | 43.25  | 50.58  | 74.00 | -23.42 Peak |
| 6    | 6463.100 | 8.24   | 35.43  | 35.46 | 44.62  | 52.83  | 74.00 | -21.17 Peak |



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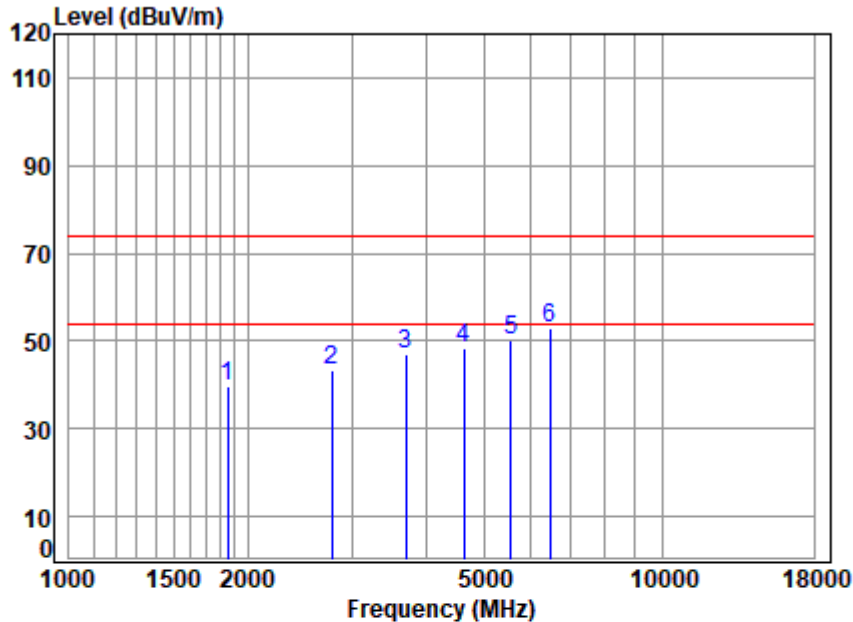
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 02; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04132AT  
Mode : 925.1M RSE TX

|   |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | 1850.200 | 3.66  | 27.30  | 36.08  | 44.74 | 39.62  | 74.00  | -34.38 Peak  |
| 2 | 2775.300 | 4.62  | 29.50  | 35.52  | 44.67 | 43.27  | 74.00  | -30.73 Peak  |
| 3 | 3700.400 | 5.88  | 32.30  | 34.63  | 43.37 | 46.92  | 74.00  | -27.08 Peak  |
| 4 | 4625.500 | 6.89  | 33.50  | 34.75  | 42.75 | 48.39  | 74.00  | -25.61 Peak  |
| 5 | 5550.600 | 7.75  | 34.60  | 35.01  | 42.94 | 50.28  | 74.00  | -23.72 Peak  |
| 6 | 6475.700 | 8.24  | 35.45  | 35.47  | 44.53 | 52.75  | 74.00  | -21.25 Peak  |



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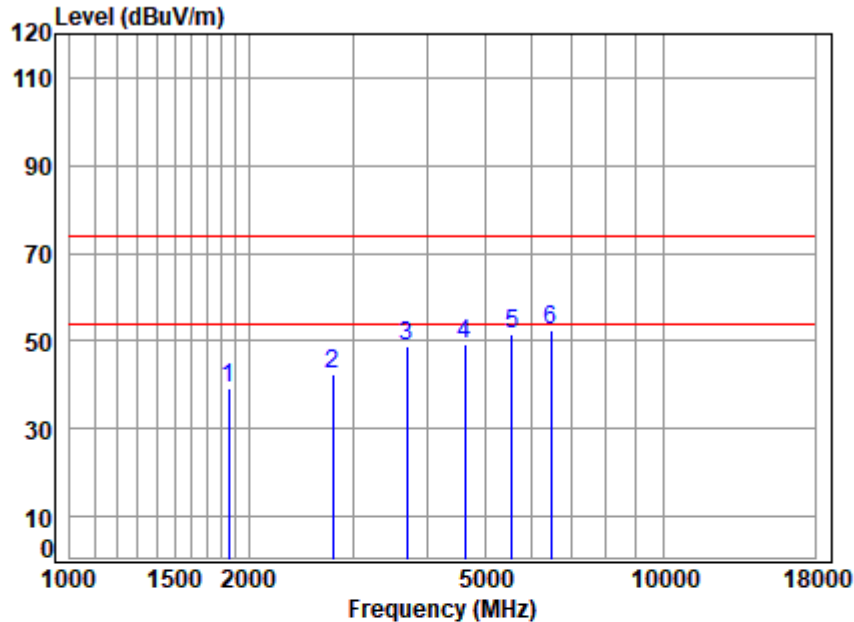
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 02; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04132AT  
Mode : 925.1M RSE TX

|   |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | 1850.200 | 3.66  | 27.30  | 36.08  | 44.44 | 39.32  | 74.00  | -34.68 Peak  |
| 2 | 2775.300 | 4.62  | 29.50  | 35.52  | 43.78 | 42.38  | 74.00  | -31.62 Peak  |
| 3 | 3700.400 | 5.88  | 32.30  | 34.63  | 45.06 | 48.61  | 74.00  | -25.39 Peak  |
| 4 | 4625.500 | 6.89  | 33.50  | 34.75  | 43.84 | 49.48  | 74.00  | -24.52 Peak  |
| 5 | 5550.600 | 7.75  | 34.60  | 35.01  | 44.18 | 51.52  | 74.00  | -22.48 Peak  |
| 6 | 6475.700 | 8.24  | 35.45  | 35.47  | 44.26 | 52.48  | 74.00  | -21.52 Peak  |



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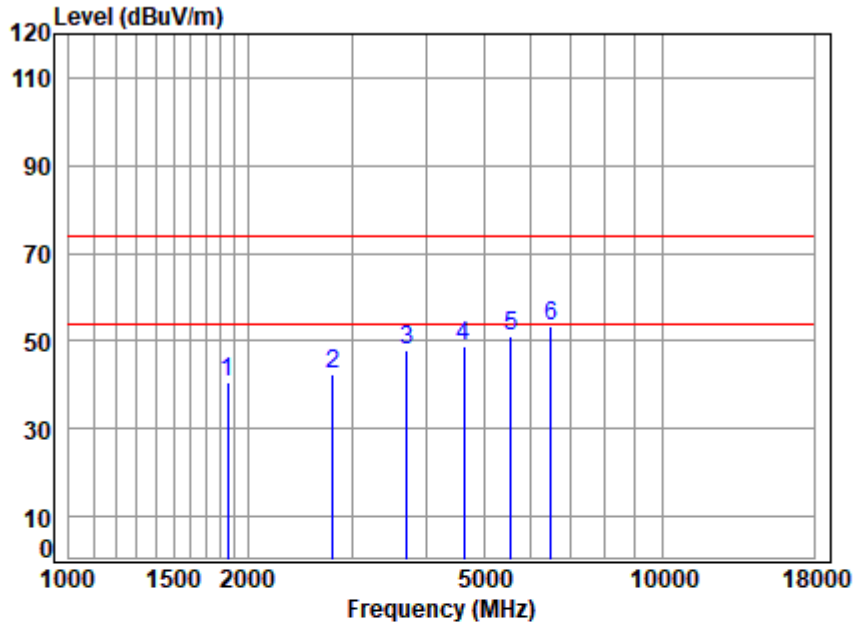
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 03; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04132AT  
Mode : 927.5M RSE TX

|      |          | Cable  | Ant    | Preamp | Read   | Limit  | Over  |             |
|------|----------|--------|--------|--------|--------|--------|-------|-------------|
| Freq | Loss     | Factor | Factor | Level  | Level  | Line   | Limit | Remark      |
| MHz  | dB       | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB    |             |
| 1    | 1855.000 | 3.66   | 27.31  | 36.07  | 45.56  | 40.46  | 74.00 | -33.54 Peak |
| 2    | 2782.500 | 4.62   | 29.50  | 35.51  | 44.05  | 42.66  | 74.00 | -31.34 Peak |
| 3    | 3710.000 | 5.90   | 32.34  | 34.62  | 44.17  | 47.79  | 74.00 | -26.21 Peak |
| 4    | 4637.500 | 6.90   | 33.50  | 34.76  | 43.37  | 49.01  | 74.00 | -24.99 Peak |
| 5    | 5565.000 | 7.77   | 34.57  | 35.02  | 43.90  | 51.22  | 74.00 | -22.78 Peak |
| 6    | 6492.500 | 8.24   | 35.49  | 35.49  | 45.12  | 53.36  | 74.00 | -20.64 Peak |



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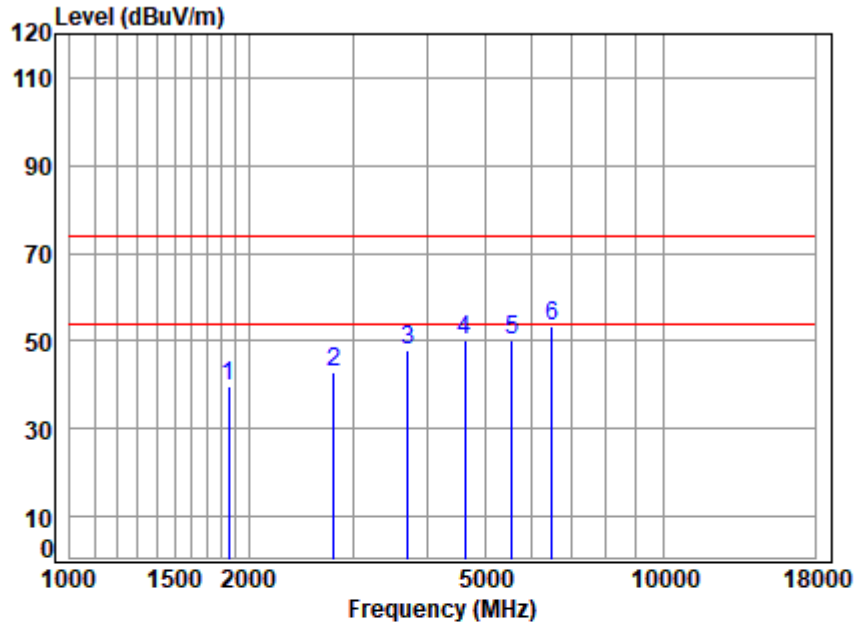
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 03; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04132AT  
Mode : 927.5M RSE TX

|   |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | 1855.000 | 3.66  | 27.31  | 36.07  | 44.66 | 39.56  | 74.00  | -34.44 Peak  |
| 2 | 2782.500 | 4.62  | 29.50  | 35.51  | 44.24 | 42.85  | 74.00  | -31.15 Peak  |
| 3 | 3710.000 | 5.90  | 32.34  | 34.62  | 44.27 | 47.89  | 74.00  | -26.11 Peak  |
| 4 | 4637.500 | 6.90  | 33.50  | 34.76  | 44.37 | 50.01  | 74.00  | -23.99 Peak  |
| 5 | 5565.000 | 7.77  | 34.57  | 35.02  | 43.05 | 50.37  | 74.00  | -23.63 Peak  |
| 6 | 6492.500 | 8.24  | 35.49  | 35.49  | 45.25 | 53.49  | 74.00  | -20.51 Peak  |



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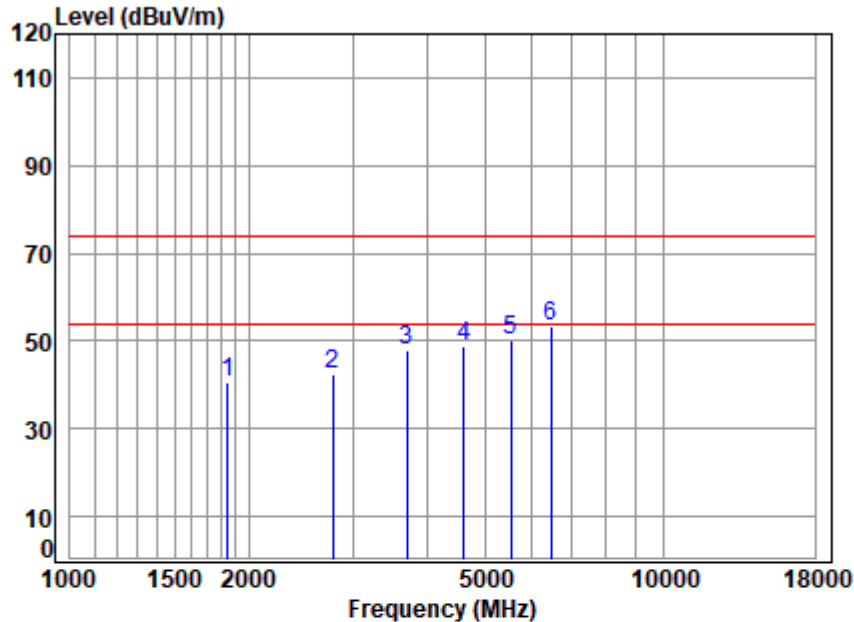
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 04; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04132AT  
Mode : 923.3M RSE TX

|   |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | 1846.600 | 3.65  | 27.28  | 36.09  | 45.77 | 40.61  | 74.00  | -33.39 Peak  |
| 2 | 2769.900 | 4.61  | 29.50  | 35.52  | 43.76 | 42.35  | 74.00  | -31.65 Peak  |
| 3 | 3693.200 | 5.87  | 32.27  | 34.64  | 44.36 | 47.86  | 74.00  | -26.14 Peak  |
| 4 | 4616.500 | 6.88  | 33.50  | 34.75  | 43.10 | 48.73  | 74.00  | -25.27 Peak  |
| 5 | 5539.800 | 7.74  | 34.60  | 35.01  | 42.68 | 50.01  | 74.00  | -23.99 Peak  |
| 6 | 6463.100 | 8.24  | 35.43  | 35.46  | 45.27 | 53.48  | 74.00  | -20.52 Peak  |



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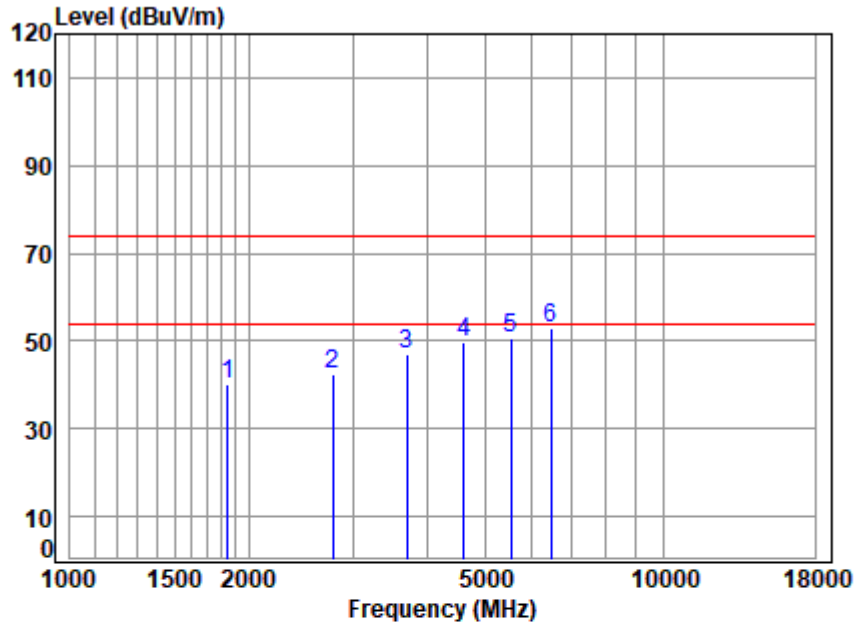
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 04; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 04132AT

Mode : 923.3M RSE TX

|   |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | 1846.600 | 3.65  | 27.28  | 36.09  | 45.51 | 40.35  | 74.00  | -33.65 Peak  |
| 2 | 2769.900 | 4.61  | 29.50  | 35.52  | 43.99 | 42.58  | 74.00  | -31.42 Peak  |
| 3 | 3693.200 | 5.87  | 32.27  | 34.64  | 43.54 | 47.04  | 74.00  | -26.96 Peak  |
| 4 | 4616.500 | 6.88  | 33.50  | 34.75  | 44.07 | 49.70  | 74.00  | -24.30 Peak  |
| 5 | 5539.800 | 7.74  | 34.60  | 35.01  | 43.31 | 50.64  | 74.00  | -23.36 Peak  |
| 6 | 6463.100 | 8.24  | 35.43  | 35.46  | 44.85 | 53.06  | 74.00  | -20.94 Peak  |



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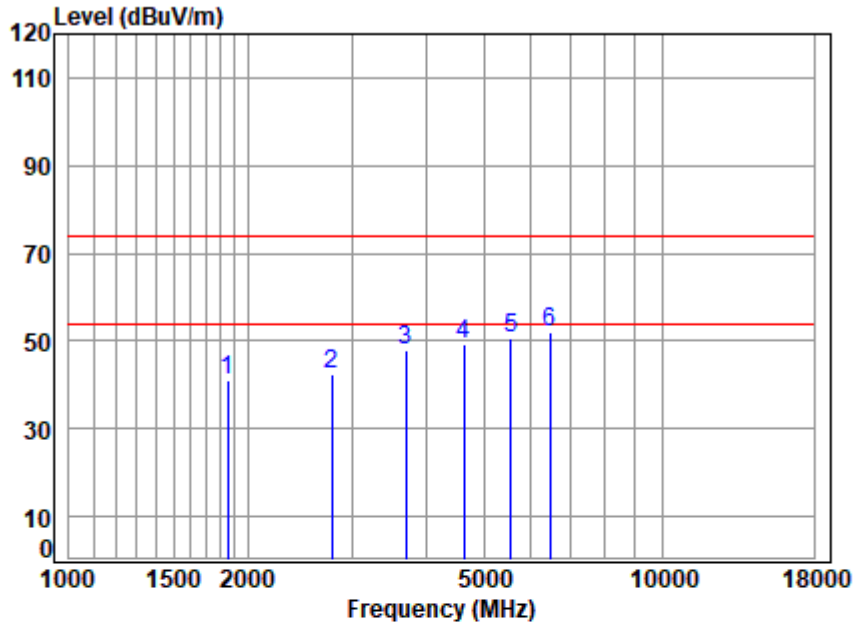
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 05; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04132AT  
Mode : 925.1M RSE TX

|            | Cable | Ant    | Preamp | Read  | Limit  | Over   |        |        |
|------------|-------|--------|--------|-------|--------|--------|--------|--------|
| Freq       | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
| MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 1850.200 | 3.66  | 27.30  | 36.08  | 46.05 | 40.93  | 74.00  | -33.07 | Peak   |
| 2 2775.300 | 4.62  | 29.50  | 35.52  | 43.73 | 42.33  | 74.00  | -31.67 | Peak   |
| 3 3700.400 | 5.88  | 32.30  | 34.63  | 44.31 | 47.86  | 74.00  | -26.14 | Peak   |
| 4 4625.500 | 6.89  | 33.50  | 34.75  | 43.84 | 49.48  | 74.00  | -24.52 | Peak   |
| 5 5550.600 | 7.75  | 34.60  | 35.01  | 43.26 | 50.60  | 74.00  | -23.40 | Peak   |
| 6 6475.700 | 8.24  | 35.45  | 35.47  | 43.96 | 52.18  | 74.00  | -21.82 | Peak   |



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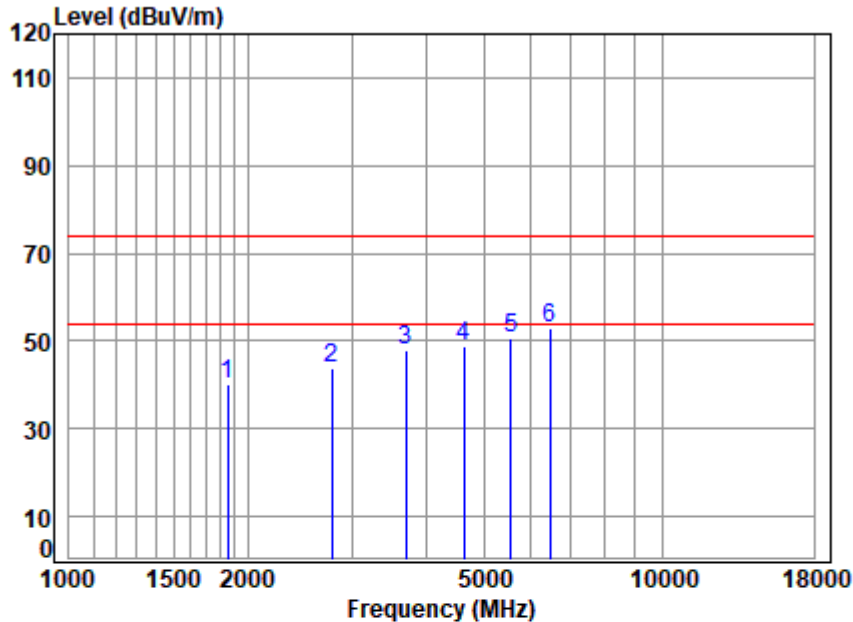
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 05; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 04132AT

Mode : 925.1M RSE TX

|      | Cable    | Ant    | Preamp | Read  | Limit  | Over   |                   |
|------|----------|--------|--------|-------|--------|--------|-------------------|
| Freq | Loss     | Factor | Factor | Level | Level  | Line   | Limit             |
| MHz  | dB       | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB                |
| 1    | 1850.200 | 3.66   | 27.30  | 36.08 | 45.49  | 40.37  | 74.00 -33.63 Peak |
| 2    | 2775.300 | 4.62   | 29.50  | 35.52 | 45.08  | 43.68  | 74.00 -30.32 Peak |
| 3    | 3700.400 | 5.88   | 32.30  | 34.63 | 44.30  | 47.85  | 74.00 -26.15 Peak |
| 4    | 4625.500 | 6.89   | 33.50  | 34.75 | 42.97  | 48.61  | 74.00 -25.39 Peak |
| 5    | 5550.600 | 7.75   | 34.60  | 35.01 | 43.25  | 50.59  | 74.00 -23.41 Peak |
| 6    | 6475.700 | 8.24   | 35.45  | 35.47 | 44.75  | 52.97  | 74.00 -21.03 Peak |



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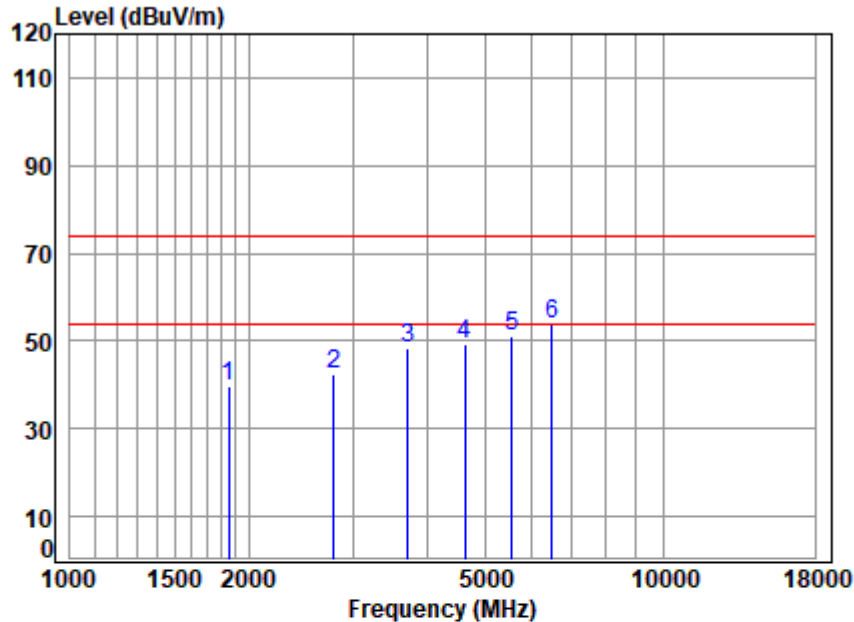
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 06; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04132AT  
Mode : 927.5M RSE TX

|   |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | 1855.000 | 3.66  | 27.31  | 36.07  | 44.97 | 39.87  | 74.00  | -34.13 Peak  |
| 2 | 2782.500 | 4.62  | 29.50  | 35.51  | 43.92 | 42.53  | 74.00  | -31.47 Peak  |
| 3 | 3710.000 | 5.90  | 32.34  | 34.62  | 44.60 | 48.22  | 74.00  | -25.78 Peak  |
| 4 | 4637.500 | 6.90  | 33.50  | 34.76  | 43.86 | 49.50  | 74.00  | -24.50 Peak  |
| 5 | 5565.000 | 7.77  | 34.57  | 35.02  | 43.85 | 51.17  | 74.00  | -22.83 Peak  |
| 6 | 6492.500 | 8.24  | 35.49  | 35.49  | 45.67 | 53.91  | 74.00  | -20.09 Peak  |



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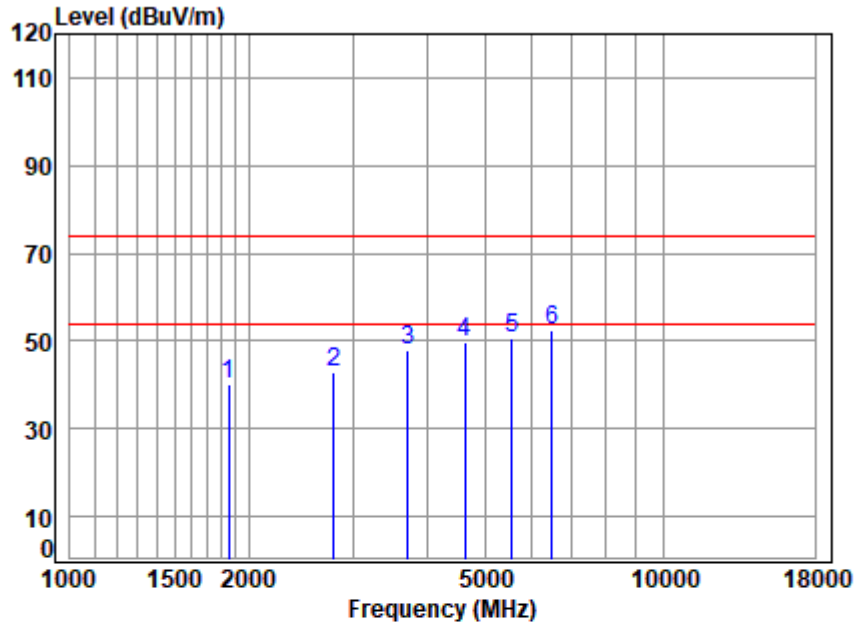
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 06; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 04132AT

Mode : 927.5M RSE TX

|   |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | 1855.000 | 3.66  | 27.31  | 36.07  | 45.30 | 40.20  | 74.00  | -33.80 Peak  |
| 2 | 2782.500 | 4.62  | 29.50  | 35.51  | 44.38 | 42.99  | 74.00  | -31.01 Peak  |
| 3 | 3710.000 | 5.90  | 32.34  | 34.62  | 44.06 | 47.68  | 74.00  | -26.32 Peak  |
| 4 | 4637.500 | 6.90  | 33.50  | 34.76  | 44.27 | 49.91  | 74.00  | -24.09 Peak  |
| 5 | 5565.000 | 7.77  | 34.57  | 35.02  | 43.41 | 50.73  | 74.00  | -23.27 Peak  |
| 6 | 6492.500 | 8.24  | 35.49  | 35.49  | 44.37 | 52.61  | 74.00  | -21.39 Peak  |



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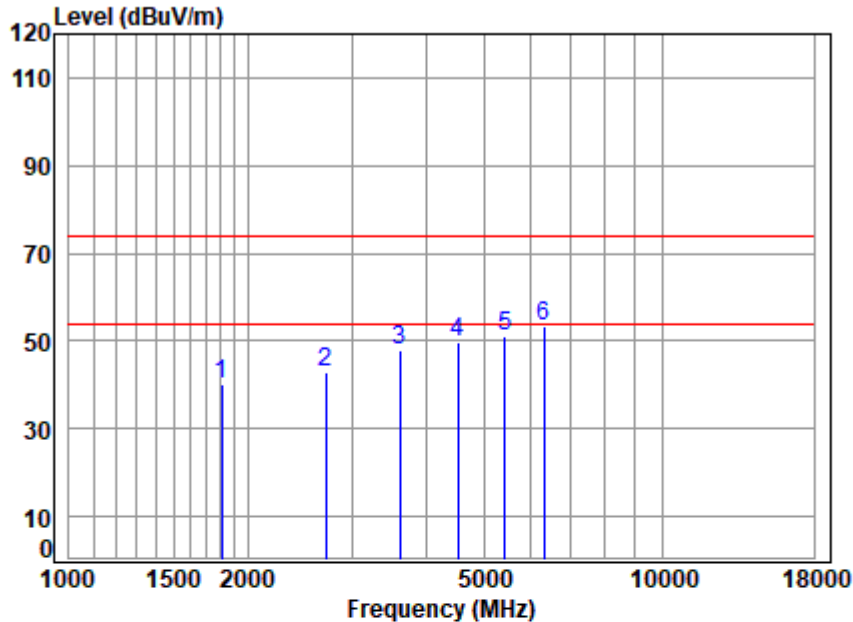
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 07; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04132AT  
Mode : 903.9M RSE TX

|      | Cable | Ant    | Preamp | Read  | Limit  | Over   |        |
|------|-------|--------|--------|-------|--------|--------|--------|
| Freq | Loss  | Factor | Factor | Level | Level  | Line   | Limit  |
| MHz  | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |
| 1    | 3.61  | 27.05  | 36.17  | 45.45 | 39.94  | 74.00  | -34.06 |
| 2    | 4.56  | 29.50  | 35.53  | 44.15 | 42.68  | 74.00  | -31.32 |
| 3    | 5.76  | 31.96  | 34.72  | 45.06 | 48.06  | 74.00  | -25.94 |
| 4    | 6.79  | 33.46  | 34.69  | 44.12 | 49.68  | 74.00  | -24.32 |
| 5    | 7.63  | 34.55  | 35.01  | 43.72 | 50.89  | 74.00  | -23.11 |
| 6    | 8.22  | 35.20  | 35.34  | 45.12 | 53.20  | 74.00  | -20.80 |



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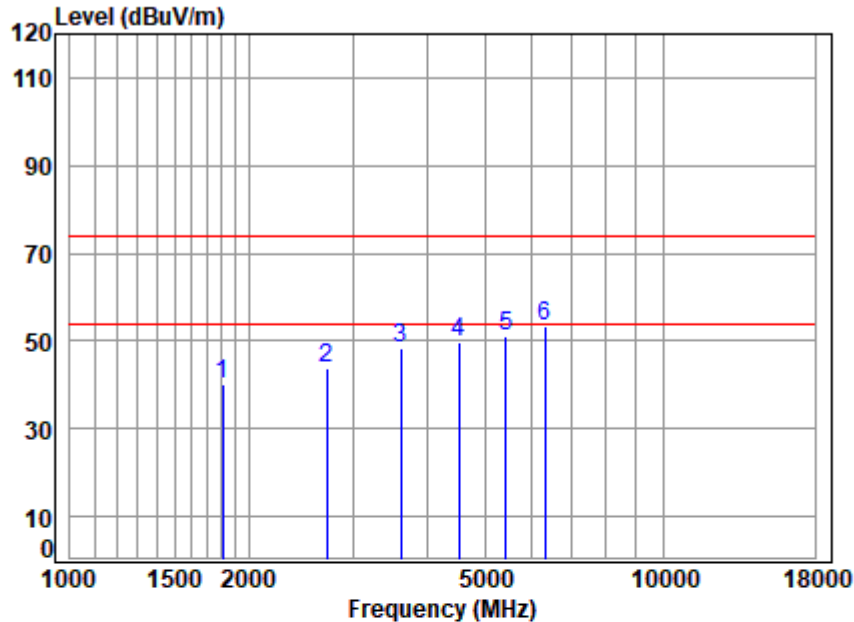
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 07; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 04132AT  
Mode : 903.9M RSE TX

|   |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | 1807.800 | 3.61  | 27.05  | 36.17  | 45.62 | 40.11  | 74.00  | -33.89 Peak  |
| 2 | 2711.700 | 4.56  | 29.50  | 35.53  | 45.41 | 43.94  | 74.00  | -30.06 Peak  |
| 3 | 3615.600 | 5.76  | 31.96  | 34.72  | 45.53 | 48.53  | 74.00  | -25.47 Peak  |
| 4 | 4519.500 | 6.79  | 33.46  | 34.69  | 44.34 | 49.90  | 74.00  | -24.10 Peak  |
| 5 | 5423.400 | 7.63  | 34.55  | 35.01  | 43.71 | 50.88  | 74.00  | -23.12 Peak  |
| 6 | 6327.300 | 8.22  | 35.20  | 35.34  | 45.14 | 53.22  | 74.00  | -20.78 Peak  |



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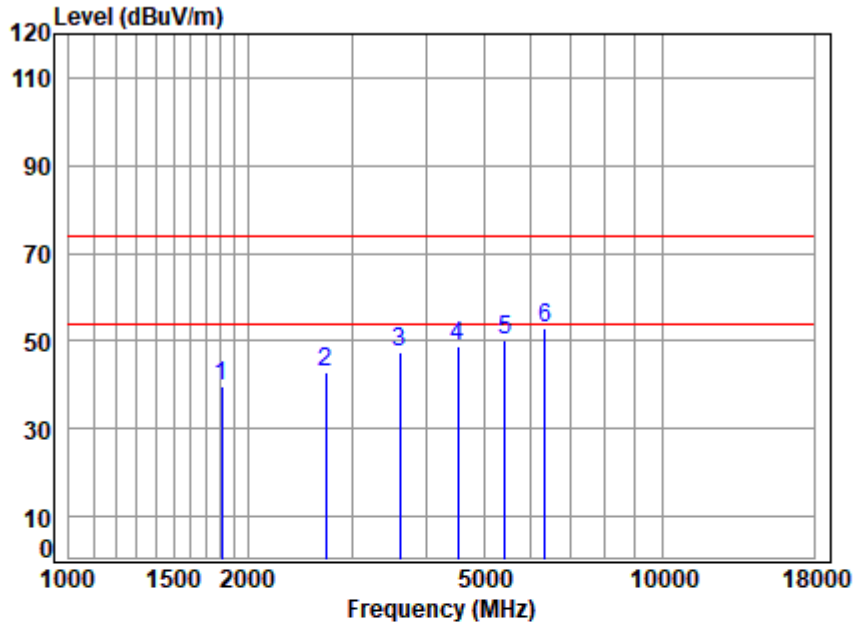
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 08; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04132AT  
Mode : 904.5M RSE TX

|      | Cable | Ant    | Preamp | Read  | Limit  | Over   |        |
|------|-------|--------|--------|-------|--------|--------|--------|
| Freq | Loss  | Factor | Factor | Level | Level  | Line   | Limit  |
| MHz  | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |
| 1    | 3.61  | 27.05  | 36.17  | 45.39 | 39.88  | 74.00  | -34.12 |
| 2    | 4.56  | 29.50  | 35.53  | 44.40 | 42.93  | 74.00  | -31.07 |
| 3    | 5.77  | 31.97  | 34.72  | 44.52 | 47.54  | 74.00  | -26.46 |
| 4    | 6.79  | 33.45  | 34.69  | 43.42 | 48.97  | 74.00  | -25.03 |
| 5    | 7.64  | 34.55  | 35.01  | 43.14 | 50.32  | 74.00  | -23.68 |
| 6    | 8.22  | 35.20  | 35.34  | 44.75 | 52.83  | 74.00  | -21.17 |



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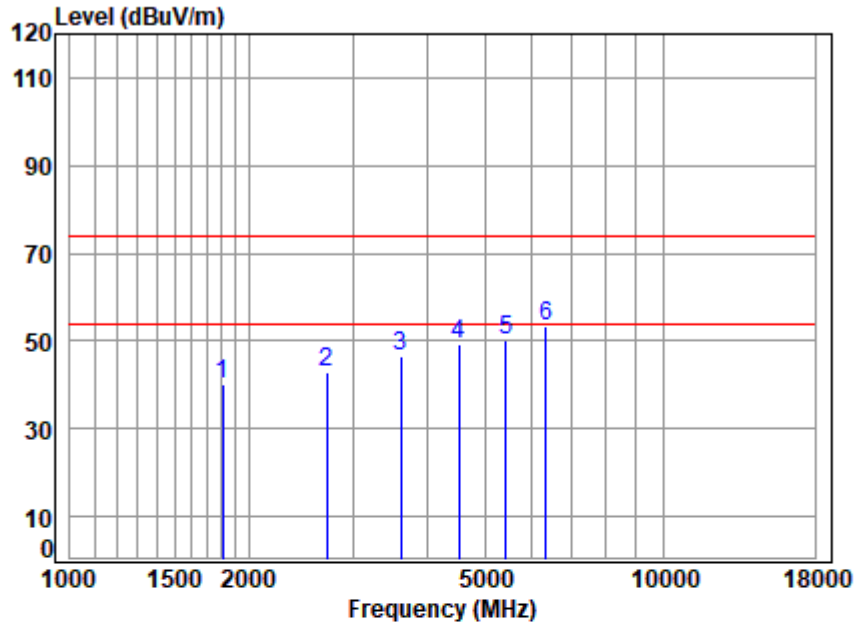
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 08; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 04132AT

Mode : 904.5M RSE TX

|      | Cable | Ant    | Preamp | Read  | Limit  | Over   |        |
|------|-------|--------|--------|-------|--------|--------|--------|
| Freq | Loss  | Factor | Factor | Level | Level  | Line   | Limit  |
| MHz  | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |
| 1    | 3.61  | 27.05  | 36.17  | 45.80 | 40.29  | 74.00  | -33.71 |
| 2    | 4.56  | 29.50  | 35.53  | 44.38 | 42.91  | 74.00  | -31.09 |
| 3    | 5.77  | 31.97  | 34.72  | 43.55 | 46.57  | 74.00  | -27.43 |
| 4    | 6.79  | 33.45  | 34.69  | 43.65 | 49.20  | 74.00  | -24.80 |
| 5    | 7.64  | 34.55  | 35.01  | 43.03 | 50.21  | 74.00  | -23.79 |
| 6    | 8.22  | 35.20  | 35.34  | 45.21 | 53.29  | 74.00  | -20.71 |



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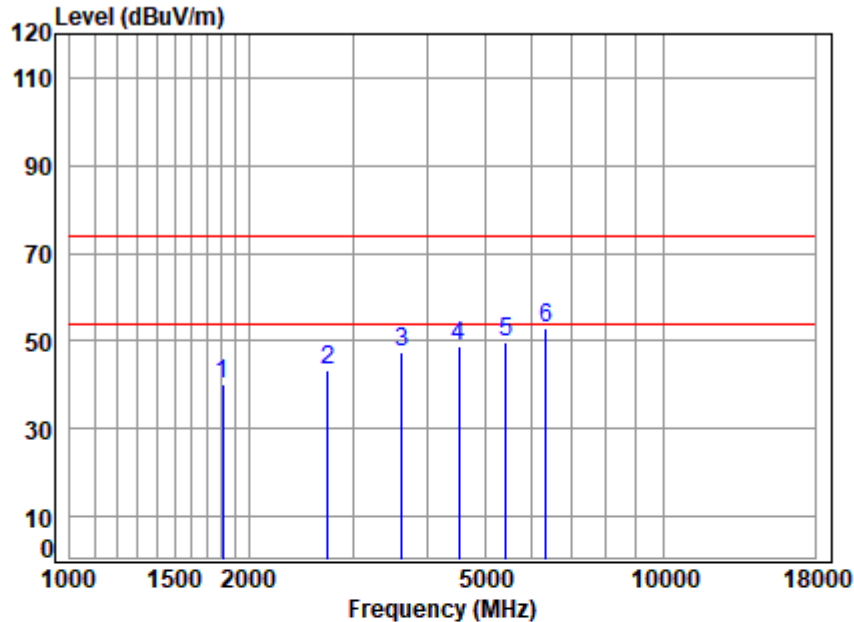
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 09; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04132AT

Mode : 905.3M RSE TX

|      | Cable | Ant    | Preamp | Read  | Limit  | Over   |        |
|------|-------|--------|--------|-------|--------|--------|--------|
| Freq | Loss  | Factor | Factor | Level | Level  | Line   | Limit  |
| MHz  | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |
| 1    | 3.61  | 27.06  | 36.16  | 45.53 | 40.04  | 74.00  | -33.96 |
| 2    | 4.56  | 29.50  | 35.53  | 44.86 | 43.39  | 74.00  | -30.61 |
| 3    | 5.77  | 31.99  | 34.72  | 44.44 | 47.48  | 74.00  | -26.52 |
| 4    | 6.80  | 33.45  | 34.69  | 43.45 | 49.01  | 74.00  | -24.99 |
| 5    | 7.64  | 34.56  | 35.01  | 42.61 | 49.80  | 74.00  | -24.20 |
| 6    | 8.22  | 35.20  | 35.35  | 44.94 | 53.01  | 74.00  | -20.99 |



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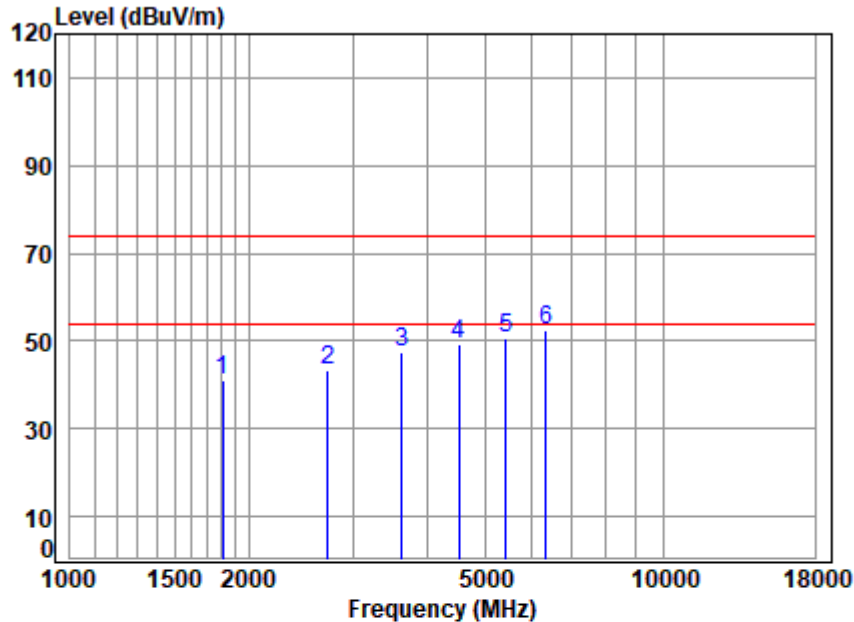
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 09; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 04132AT

Mode : 905.3M RSE TX

|            | Cable | Ant    | Preamp | Read  | Limit  | Over   |        |        |
|------------|-------|--------|--------|-------|--------|--------|--------|--------|
| Freq       | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
| MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 1810.600 | 3.61  | 27.06  | 36.16  | 46.60 | 41.11  | 74.00  | -32.89 | Peak   |
| 2 2715.900 | 4.56  | 29.50  | 35.53  | 44.80 | 43.33  | 74.00  | -30.67 | Peak   |
| 3 3621.200 | 5.77  | 31.99  | 34.72  | 44.36 | 47.40  | 74.00  | -26.60 | Peak   |
| 4 4526.500 | 6.80  | 33.45  | 34.69  | 43.54 | 49.10  | 74.00  | -24.90 | Peak   |
| 5 5431.800 | 7.64  | 34.56  | 35.01  | 43.40 | 50.59  | 74.00  | -23.41 | Peak   |
| 6 6337.100 | 8.22  | 35.20  | 35.35  | 44.59 | 52.66  | 74.00  | -21.34 | Peak   |



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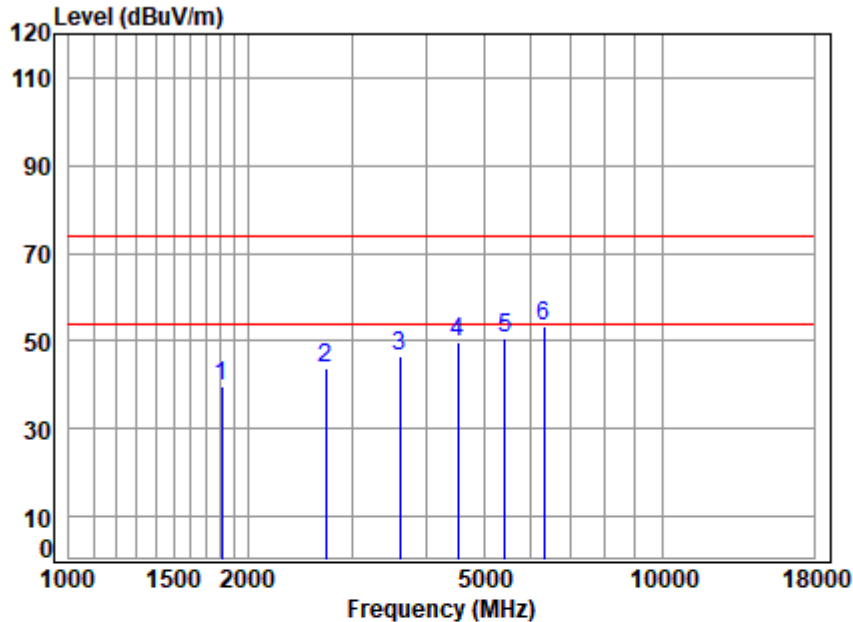
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 10; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04132AT  
Mode : 903.9M RSE TX

|   | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark |
|---|----------|------------|------------|---------------|------------|-------------|------------|--------|
|   | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m      | dB         |        |
| 1 | 1807.800 | 3.61       | 27.05      | 36.17         | 45.41      | 74.00       | -34.10     | Peak   |
| 2 | 2711.700 | 4.56       | 29.50      | 35.53         | 45.47      | 74.00       | -30.00     | Peak   |
| 3 | 3615.600 | 5.76       | 31.96      | 34.72         | 43.49      | 74.00       | -27.51     | Peak   |
| 4 | 4519.500 | 6.79       | 33.46      | 34.69         | 43.98      | 74.00       | -24.46     | Peak   |
| 5 | 5423.400 | 7.63       | 34.55      | 35.01         | 43.34      | 74.00       | -23.49     | Peak   |
| 6 | 6327.300 | 8.22       | 35.20      | 35.34         | 45.17      | 74.00       | -20.75     | Peak   |



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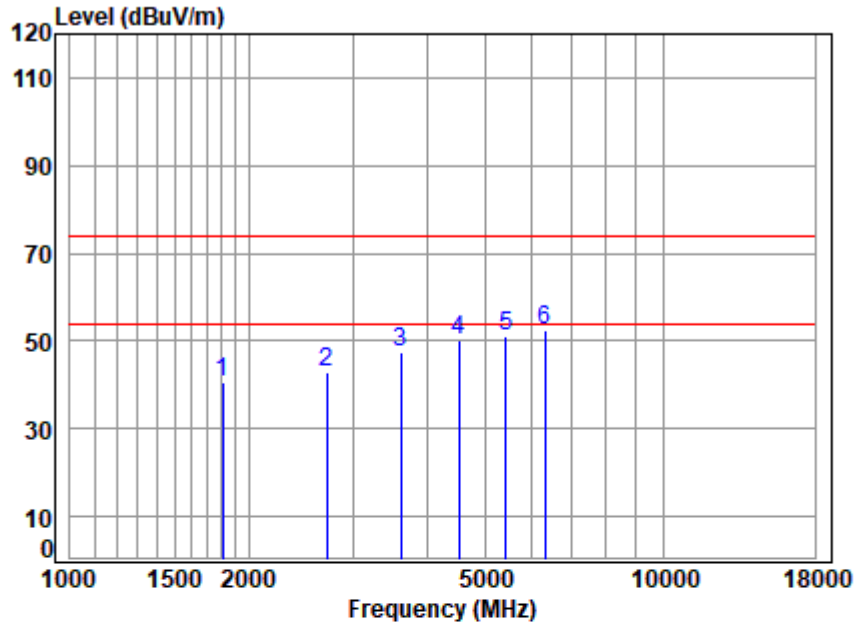
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 10; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 04132AT

Mode : 903.9M RSE TX

|      | Cable    | Ant    | Preamp | Read  | Limit  | Over   |                   |
|------|----------|--------|--------|-------|--------|--------|-------------------|
| Freq | Loss     | Factor | Factor | Level | Level  | Line   | Limit             |
| MHz  | dB       | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB                |
| 1    | 1807.800 | 3.61   | 27.05  | 36.17 | 46.15  | 40.64  | 74.00 -33.36 Peak |
| 2    | 2711.700 | 4.56   | 29.50  | 35.53 | 44.22  | 42.75  | 74.00 -31.25 Peak |
| 3    | 3615.600 | 5.76   | 31.96  | 34.72 | 44.43  | 47.43  | 74.00 -26.57 Peak |
| 4    | 4519.500 | 6.79   | 33.46  | 34.69 | 44.68  | 50.24  | 74.00 -23.76 Peak |
| 5    | 5423.400 | 7.63   | 34.55  | 35.01 | 43.76  | 50.93  | 74.00 -23.07 Peak |
| 6    | 6327.300 | 8.22   | 35.20  | 35.34 | 44.32  | 52.40  | 74.00 -21.60 Peak |



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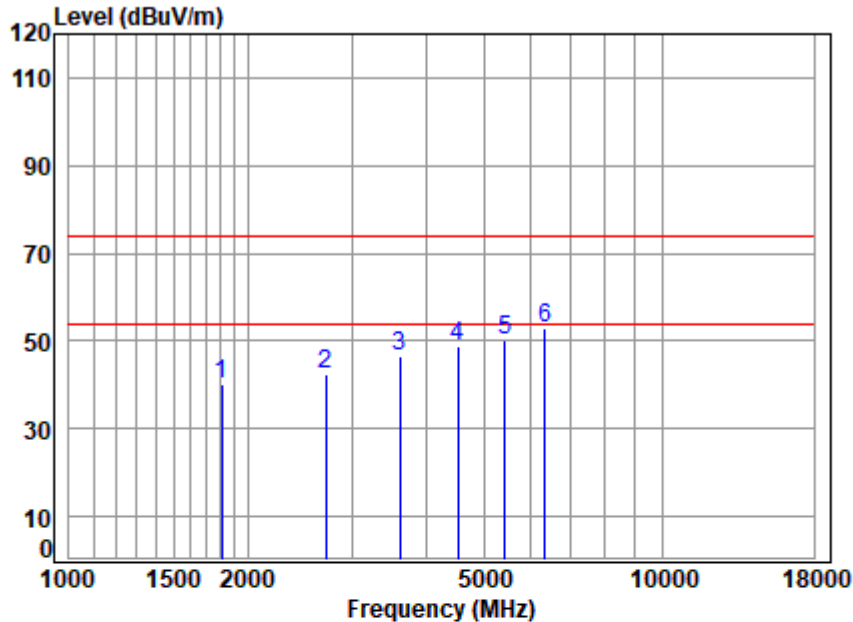
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 11; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 04132AT

Mode : 904.5M RSE TX

|      | Cable | Ant    | Preamp | Read  | Limit  | Over   |        |
|------|-------|--------|--------|-------|--------|--------|--------|
| Freq | Loss  | Factor | Factor | Level | Level  | Line   | Limit  |
| MHz  | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |
| 1    | 3.61  | 27.05  | 36.17  | 45.79 | 40.28  | 74.00  | -33.72 |
| 2    | 4.56  | 29.50  | 35.53  | 44.09 | 42.62  | 74.00  | -31.38 |
| 3    | 5.77  | 31.97  | 34.72  | 43.58 | 46.60  | 74.00  | -27.40 |
| 4    | 6.79  | 33.45  | 34.69  | 43.28 | 48.83  | 74.00  | -25.17 |
| 5    | 7.64  | 34.55  | 35.01  | 43.11 | 50.29  | 74.00  | -23.71 |
| 6    | 8.22  | 35.20  | 35.34  | 44.99 | 53.07  | 74.00  | -20.93 |



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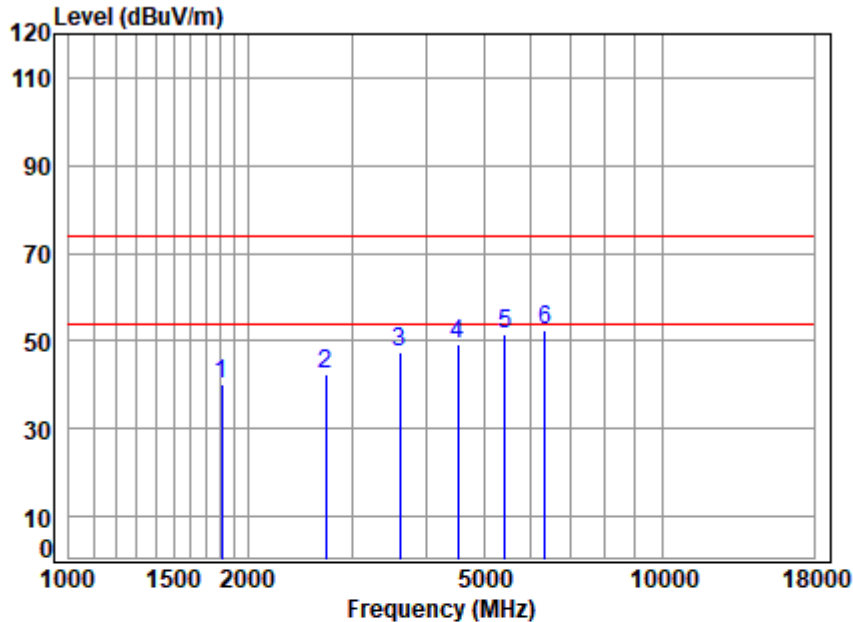
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 11; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 04132AT

Mode : 904.5M RSE TX

|      | Cable    | Ant    | Preamp | Read  | Limit  | Over   |       |             |
|------|----------|--------|--------|-------|--------|--------|-------|-------------|
| Freq | Loss     | Factor | Factor | Level | Level  | Line   | Limit | Remark      |
| MHz  | dB       | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB    |             |
| 1    | 1809.000 | 3.61   | 27.05  | 36.17 | 45.74  | 40.23  | 74.00 | -33.77 Peak |
| 2    | 2713.500 | 4.56   | 29.50  | 35.53 | 44.05  | 42.58  | 74.00 | -31.42 Peak |
| 3    | 3618.000 | 5.77   | 31.97  | 34.72 | 44.40  | 47.42  | 74.00 | -26.58 Peak |
| 4    | 4522.500 | 6.79   | 33.45  | 34.69 | 43.64  | 49.19  | 74.00 | -24.81 Peak |
| 5    | 5427.000 | 7.64   | 34.55  | 35.01 | 44.24  | 51.42  | 74.00 | -22.58 Peak |
| 6    | 6331.500 | 8.22   | 35.20  | 35.34 | 44.52  | 52.60  | 74.00 | -21.40 Peak |



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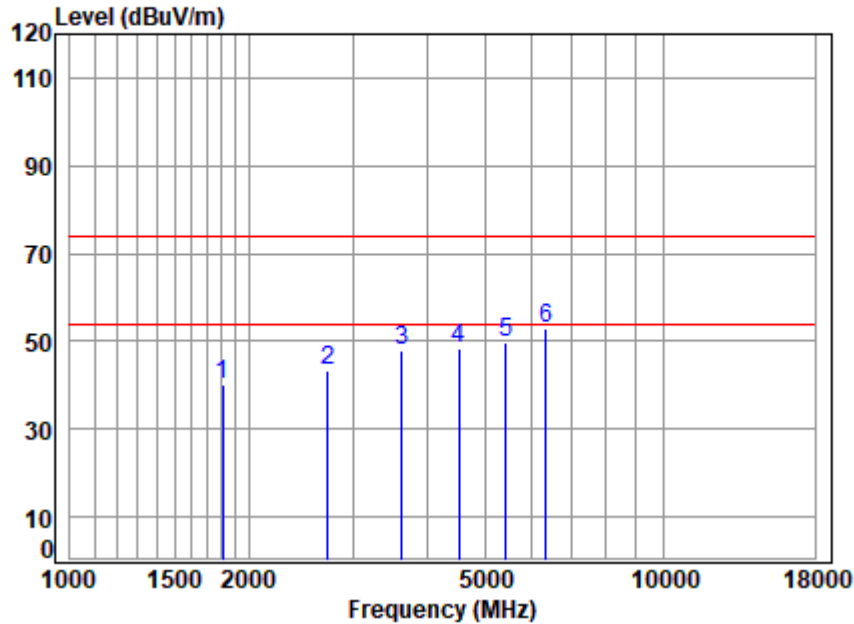
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 12; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04132AT  
Mode : 905.3M RSE TX

|   |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | 1810.600 | 3.61  | 27.06  | 36.16  | 45.67 | 40.18  | 74.00  | -33.82 Peak  |
| 2 | 2715.900 | 4.56  | 29.50  | 35.53  | 45.04 | 43.57  | 74.00  | -30.43 Peak  |
| 3 | 3621.200 | 5.77  | 31.99  | 34.72  | 45.06 | 48.10  | 74.00  | -25.90 Peak  |
| 4 | 4526.500 | 6.80  | 33.45  | 34.69  | 42.96 | 48.52  | 74.00  | -25.48 Peak  |
| 5 | 5431.800 | 7.64  | 34.56  | 35.01  | 42.64 | 49.83  | 74.00  | -24.17 Peak  |
| 6 | 6337.100 | 8.22  | 35.20  | 35.35  | 44.90 | 52.97  | 74.00  | -21.03 Peak  |



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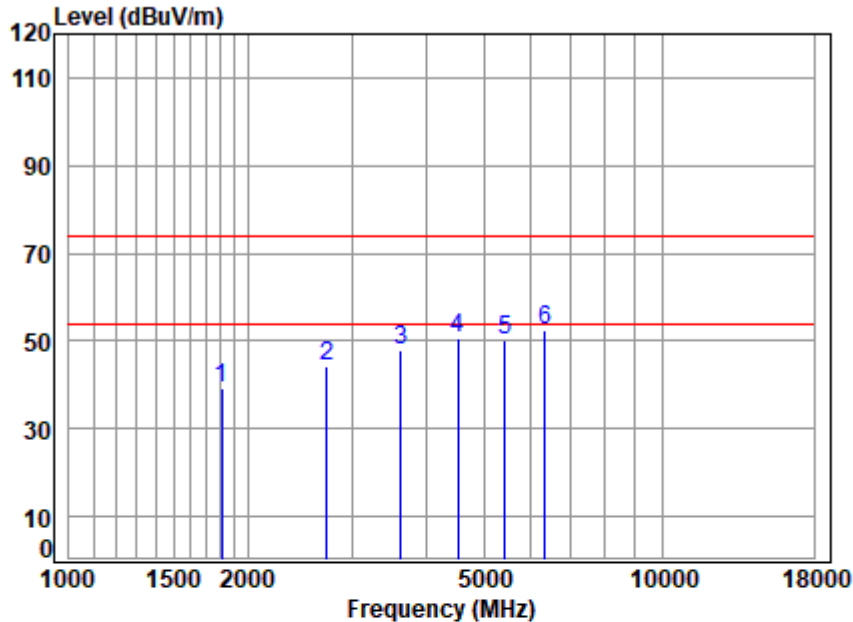
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 12; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 04132AT

Mode : 905.3M RSE TX

|   |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | 1810.600 | 3.61  | 27.06  | 36.16  | 44.95 | 39.46  | 74.00  | -34.54 Peak  |
| 2 | 2715.900 | 4.56  | 29.50  | 35.53  | 45.53 | 44.06  | 74.00  | -29.94 Peak  |
| 3 | 3621.200 | 5.77  | 31.99  | 34.72  | 44.92 | 47.96  | 74.00  | -26.04 Peak  |
| 4 | 4526.500 | 6.80  | 33.45  | 34.69  | 44.89 | 50.45  | 74.00  | -23.55 Peak  |
| 5 | 5431.800 | 7.64  | 34.56  | 35.01  | 43.13 | 50.32  | 74.00  | -23.68 Peak  |
| 6 | 6337.100 | 8.22  | 35.20  | 35.35  | 44.47 | 52.54  | 74.00  | -21.46 Peak  |



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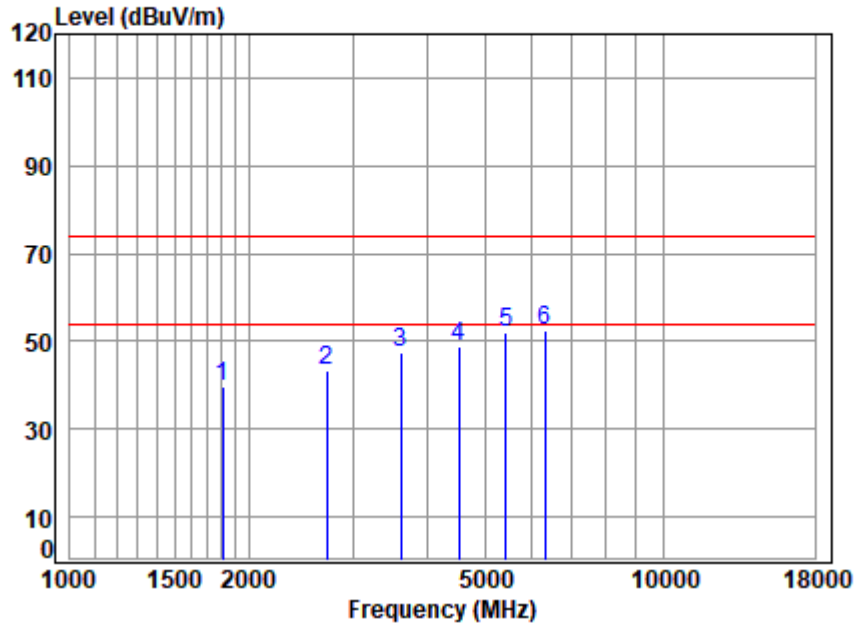
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 13; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04132AT  
Mode : 903.9M RSE TX

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
| Freq |          | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
| MHz  |          | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1    | 1807.800 | 3.61  | 27.05  | 36.17  | 45.20 | 39.69  | 74.00  | -34.31 Peak  |
| 2    | 2711.700 | 4.56  | 29.50  | 35.53  | 44.74 | 43.27  | 74.00  | -30.73 Peak  |
| 3    | 3615.600 | 5.76  | 31.96  | 34.72  | 44.42 | 47.42  | 74.00  | -26.58 Peak  |
| 4    | 4519.500 | 6.79  | 33.46  | 34.69  | 43.07 | 48.63  | 74.00  | -25.37 Peak  |
| 5    | 5423.400 | 7.63  | 34.55  | 35.01  | 44.81 | 51.98  | 74.00  | -22.02 Peak  |
| 6    | 6327.300 | 8.22  | 35.20  | 35.34  | 44.17 | 52.25  | 74.00  | -21.75 Peak  |



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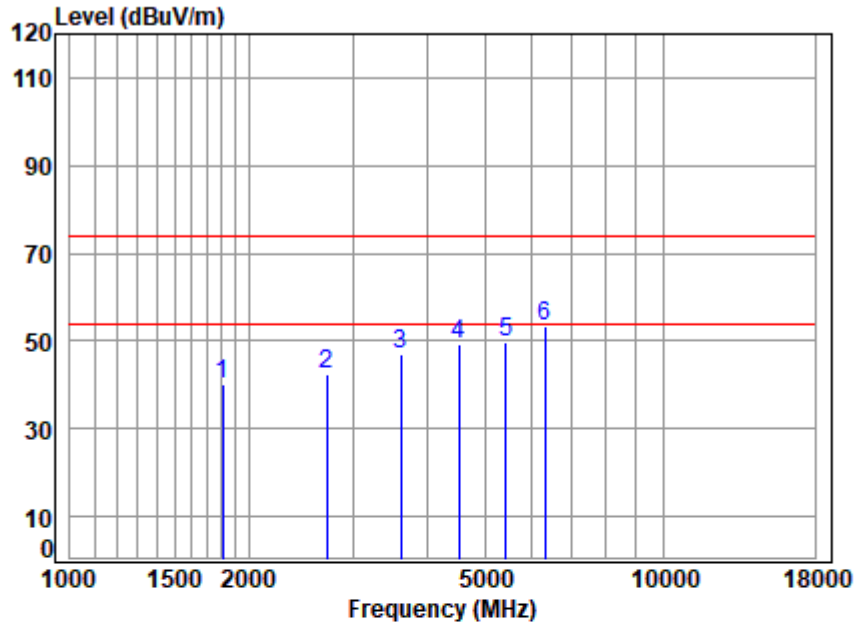
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221200413202

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Test Mode: 13; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 04132AT

Mode : 903.9M RSE TX

|   |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | 1807.800 | 3.61  | 27.05  | 36.17  | 45.63 | 40.12  | 74.00  | -33.88 Peak  |
| 2 | 2711.700 | 4.56  | 29.50  | 35.53  | 43.90 | 42.43  | 74.00  | -31.57 Peak  |
| 3 | 3615.600 | 5.76  | 31.96  | 34.72  | 44.21 | 47.21  | 74.00  | -26.79 Peak  |
| 4 | 4519.500 | 6.79  | 33.46  | 34.69  | 43.68 | 49.24  | 74.00  | -24.76 Peak  |
| 5 | 5423.400 | 7.63  | 34.55  | 35.01  | 42.46 | 49.63  | 74.00  | -24.37 Peak  |
| 6 | 6327.300 | 8.22  | 35.20  | 35.34  | 45.27 | 53.35  | 74.00  | -20.65 Peak  |



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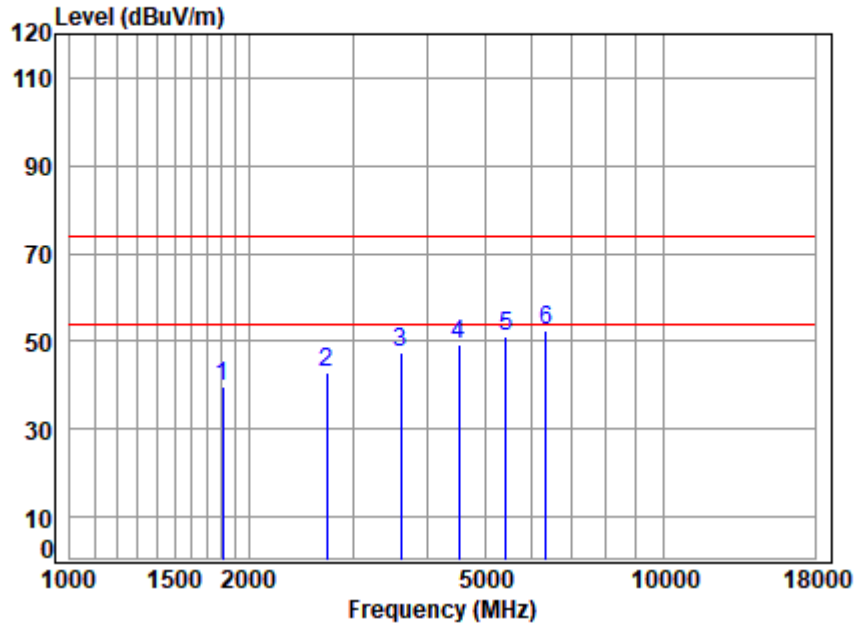
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Report No.: SZCR221200413202

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Test Mode: 14; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04132AT  
Mode : 904.5M RSE TX

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
| Freq |          | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
| MHz  |          | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1    | 1809.000 | 3.61  | 27.05  | 36.17  | 45.26 | 39.75  | 74.00  | -34.25 Peak  |
| 2    | 2713.500 | 4.56  | 29.50  | 35.53  | 44.51 | 43.04  | 74.00  | -30.96 Peak  |
| 3    | 3618.000 | 5.77  | 31.97  | 34.72  | 44.27 | 47.29  | 74.00  | -26.71 Peak  |
| 4    | 4522.500 | 6.79  | 33.45  | 34.69  | 43.56 | 49.11  | 74.00  | -24.89 Peak  |
| 5    | 5427.000 | 7.64  | 34.55  | 35.01  | 43.77 | 50.95  | 74.00  | -23.05 Peak  |
| 6    | 6331.500 | 8.22  | 35.20  | 35.34  | 44.38 | 52.46  | 74.00  | -21.54 Peak  |



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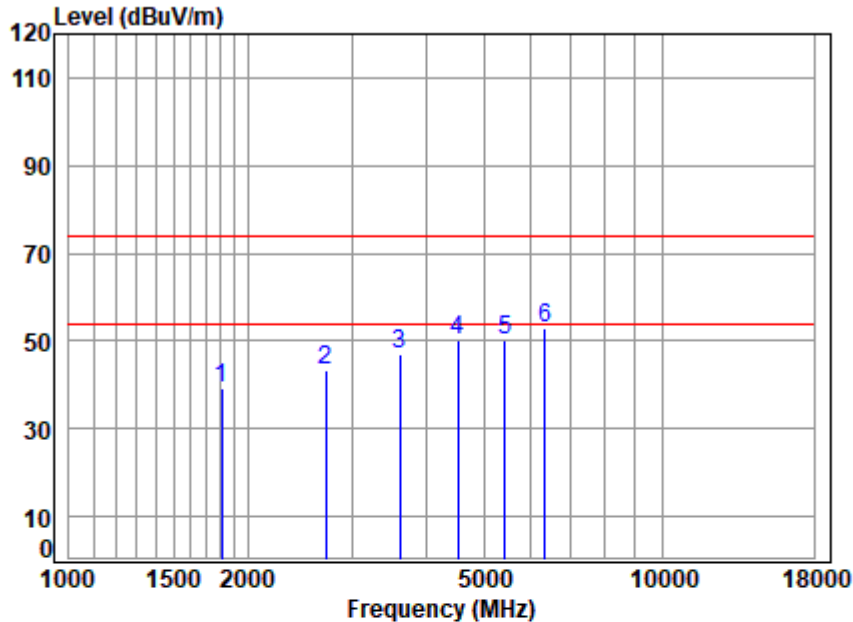
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

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Test Mode: 14; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 04132AT

Mode : 904.5M RSE TX

|      | Cable | Ant    | Preamp | Read  | Limit  | Over   |        |
|------|-------|--------|--------|-------|--------|--------|--------|
| Freq | Loss  | Factor | Factor | Level | Level  | Line   | Limit  |
| MHz  | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |
| 1    | 3.61  | 27.05  | 36.17  | 44.62 | 39.11  | 74.00  | -34.89 |
| 2    | 4.56  | 29.50  | 35.53  | 44.62 | 43.15  | 74.00  | -30.85 |
| 3    | 5.77  | 31.97  | 34.72  | 43.82 | 46.84  | 74.00  | -27.16 |
| 4    | 6.79  | 33.45  | 34.69  | 44.69 | 50.24  | 74.00  | -23.76 |
| 5    | 7.64  | 34.55  | 35.01  | 43.16 | 50.34  | 74.00  | -23.66 |
| 6    | 8.22  | 35.20  | 35.34  | 44.63 | 52.71  | 74.00  | -21.29 |



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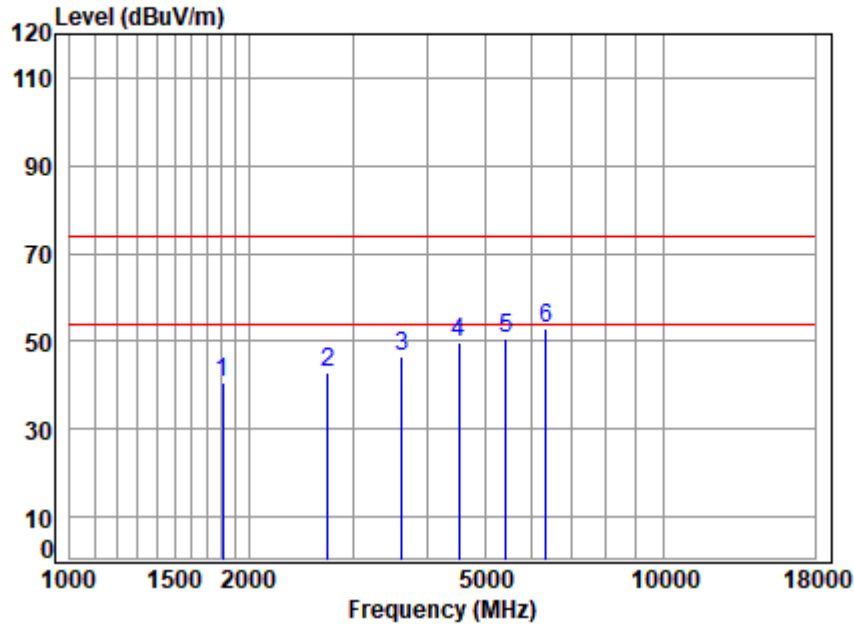
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Test Mode: 15; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 04132AT  
Mode : 905.3M RSE TX

|   |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|----------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | 1810.600 | 3.61  | 27.06  | 36.16  | 45.87 | 40.38  | 74.00  | -33.62 Peak  |
| 2 | 2715.900 | 4.56  | 29.50  | 35.53  | 44.44 | 42.97  | 74.00  | -31.03 Peak  |
| 3 | 3621.200 | 5.77  | 31.99  | 34.72  | 43.59 | 46.63  | 74.00  | -27.37 Peak  |
| 4 | 4526.500 | 6.80  | 33.45  | 34.69  | 44.27 | 49.83  | 74.00  | -24.17 Peak  |
| 5 | 5431.800 | 7.64  | 34.56  | 35.01  | 43.45 | 50.64  | 74.00  | -23.36 Peak  |
| 6 | 6337.100 | 8.22  | 35.20  | 35.35  | 44.81 | 52.88  | 74.00  | -21.12 Peak  |



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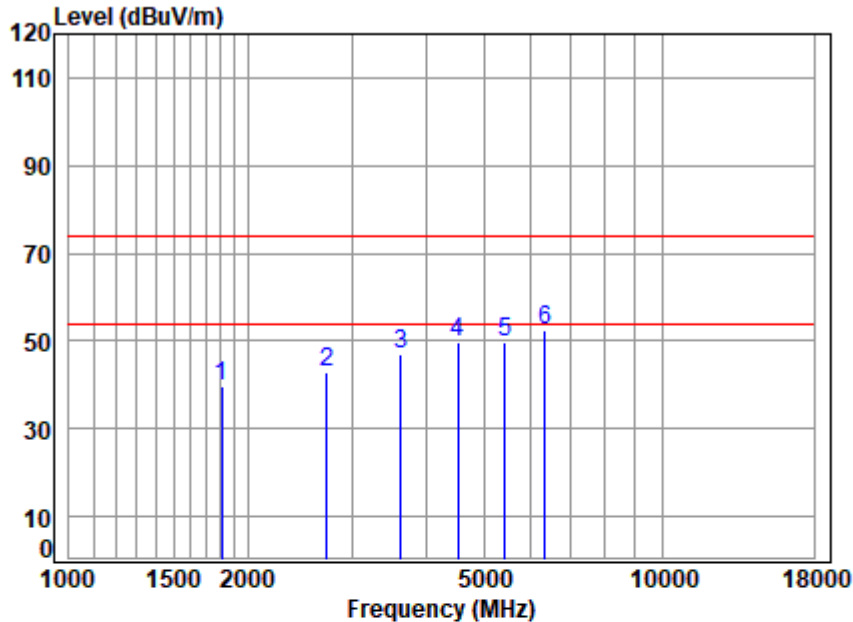
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Test Mode: 15; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 04132AT

Mode : 905.3M RSE TX

|      | Cable    | Ant    | Preamp | Read  | Limit  | Over   |                   |
|------|----------|--------|--------|-------|--------|--------|-------------------|
| Freq | Loss     | Factor | Factor | Level | Level  | Line   | Limit             |
| MHz  | dB       | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB                |
| 1    | 1810.600 | 3.61   | 27.06  | 36.16 | 45.08  | 39.59  | 74.00 -34.41 Peak |
| 2    | 2715.900 | 4.56   | 29.50  | 35.53 | 44.15  | 42.68  | 74.00 -31.32 Peak |
| 3    | 3621.200 | 5.77   | 31.99  | 34.72 | 44.09  | 47.13  | 74.00 -26.87 Peak |
| 4    | 4526.500 | 6.80   | 33.45  | 34.69 | 44.16  | 49.72  | 74.00 -24.28 Peak |
| 5    | 5431.800 | 7.64   | 34.56  | 35.01 | 42.71  | 49.90  | 74.00 -24.10 Peak |
| 6    | 6337.100 | 8.22   | 35.20  | 35.35 | 44.54  | 52.61  | 74.00 -21.39 Peak |



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2212004132AT

## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2212004132AT



## 10 Appendix

Lora\_Hybrid mode:

### 1. Bandwidth

#### 1.1 OBW

##### 1.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|------|---------|-----------------|-----|------------------------------|---------|
|      |         |                 |     | Result                       |         |
| DR3  | SISO    | 903.9           | 1   | 0.120                        | Pass    |
|      |         | 904.5           | 1   | 0.120                        | Pass    |
|      |         | 905.3           | 1   | 0.121                        | Pass    |
| DR1  | SISO    | 903.9           | 1   | 0.123                        | Pass    |
|      |         | 904.5           | 1   | 0.123                        | Pass    |
|      |         | 905.3           | 1   | 0.123                        | Pass    |
| DR0  | SISO    | 903.9           | 1   | 0.123                        | Pass    |
|      |         | 904.5           | 1   | 0.123                        | Pass    |
|      |         | 905.3           | 1   | 0.123                        | Pass    |



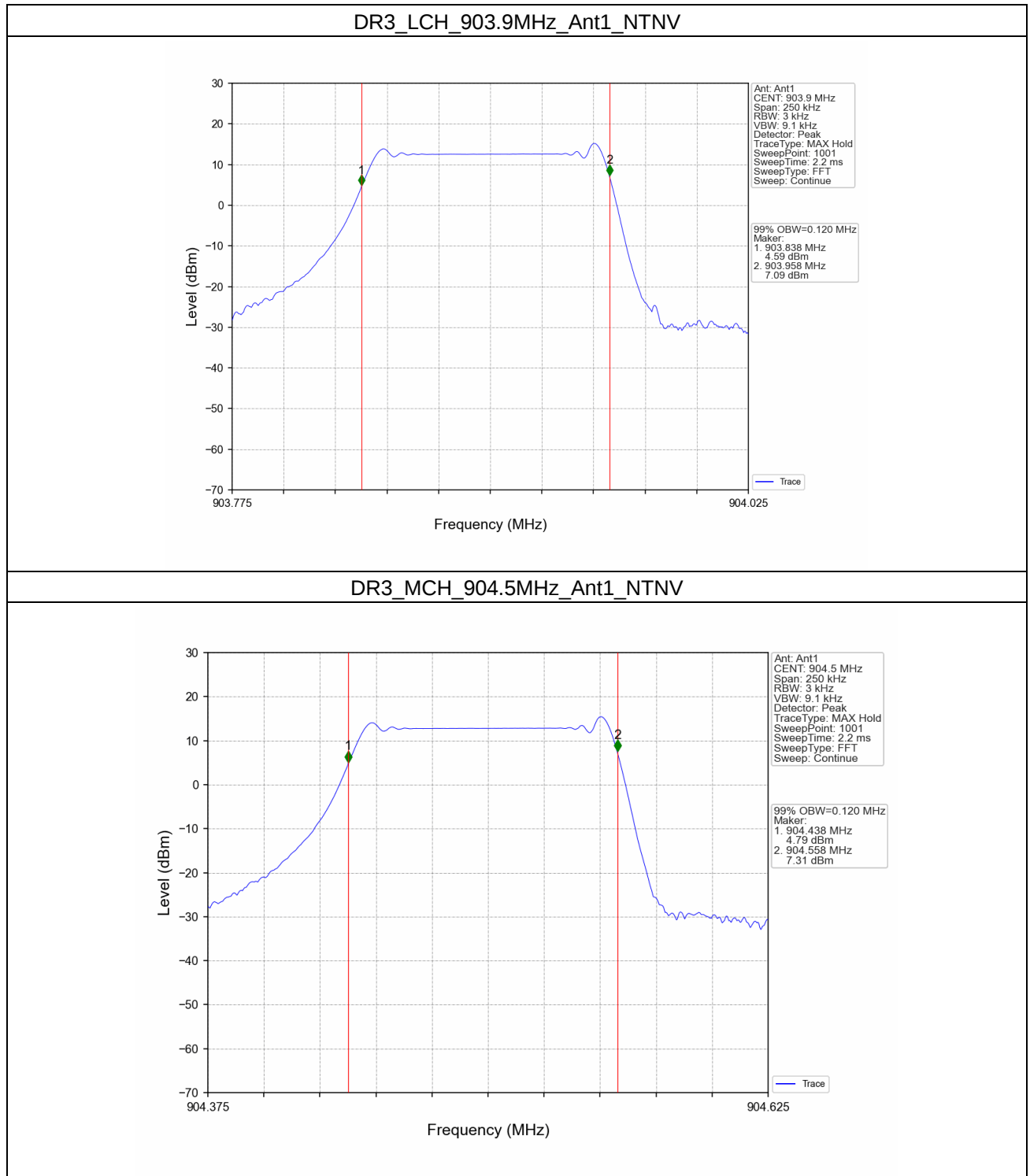
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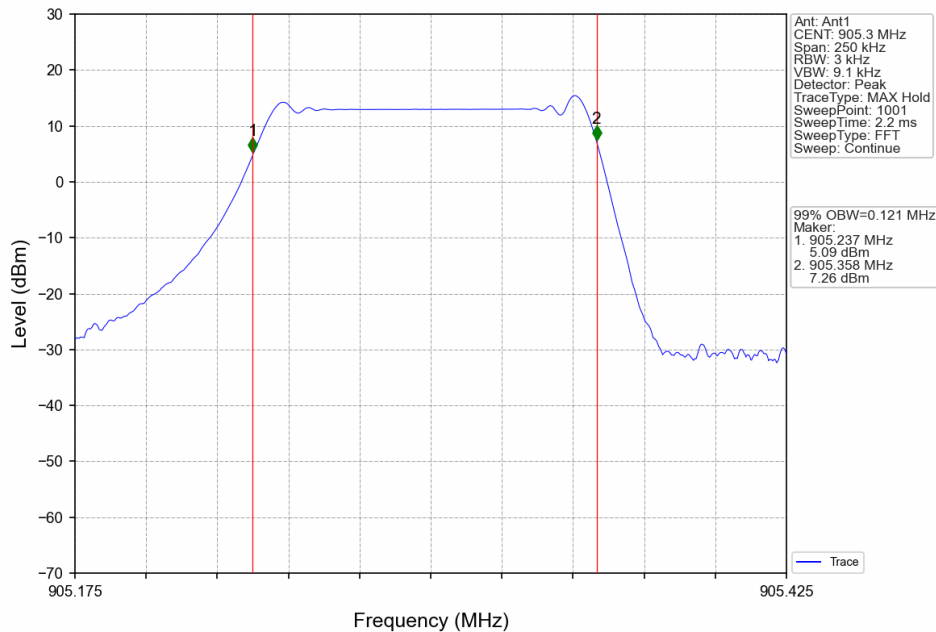
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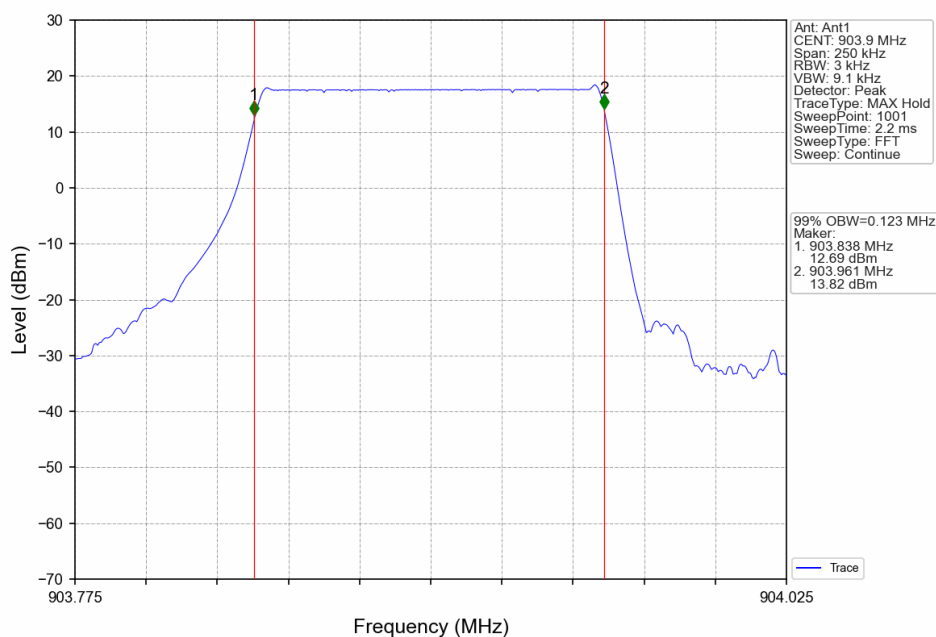
### 1.1.2 Test Graph



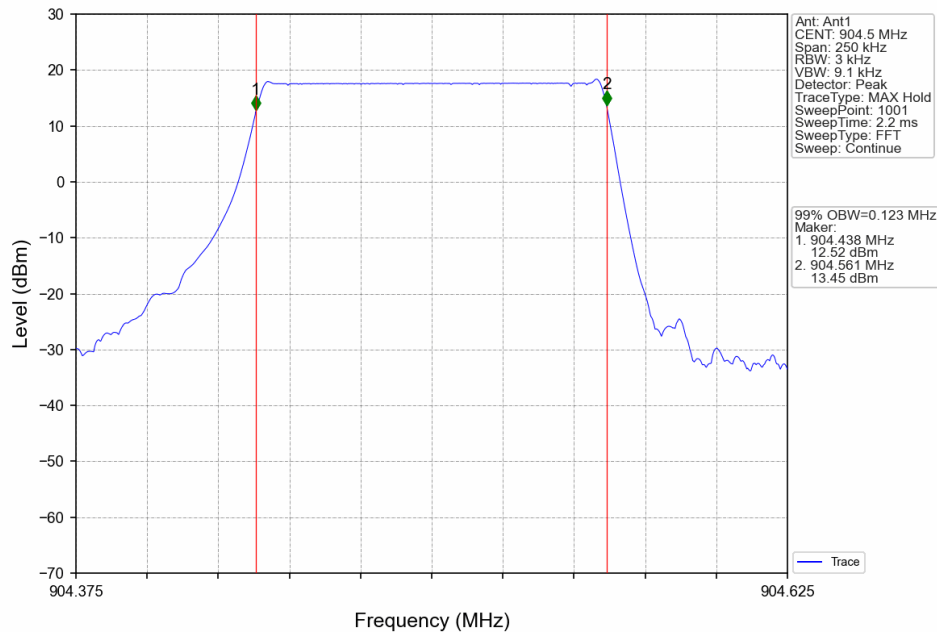
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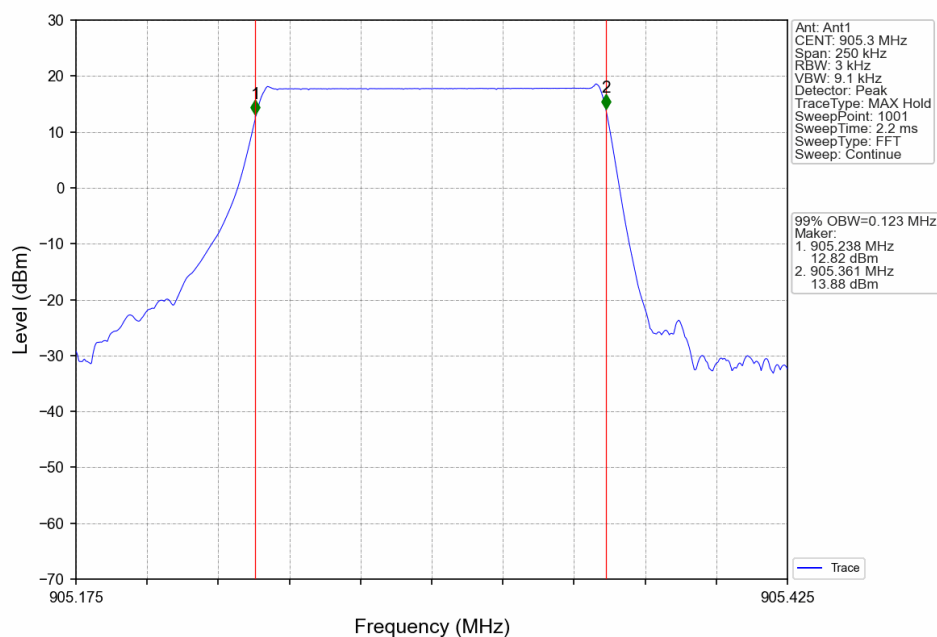
### DR1\_LCH\_903.9MHz\_Ant1\_NTNV



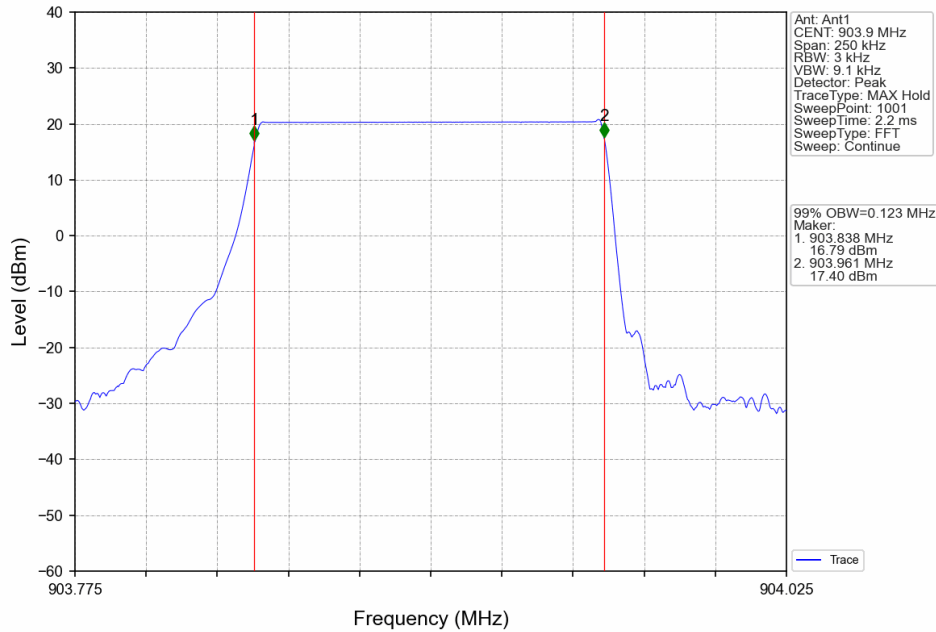
### DR1\_MCH\_904.5MHz\_Ant1\_NTNV



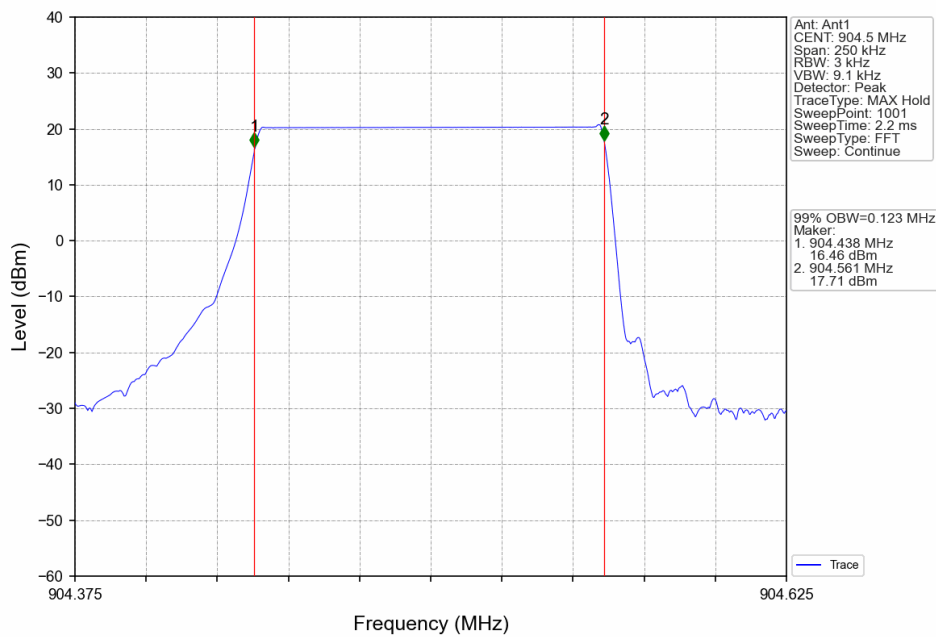
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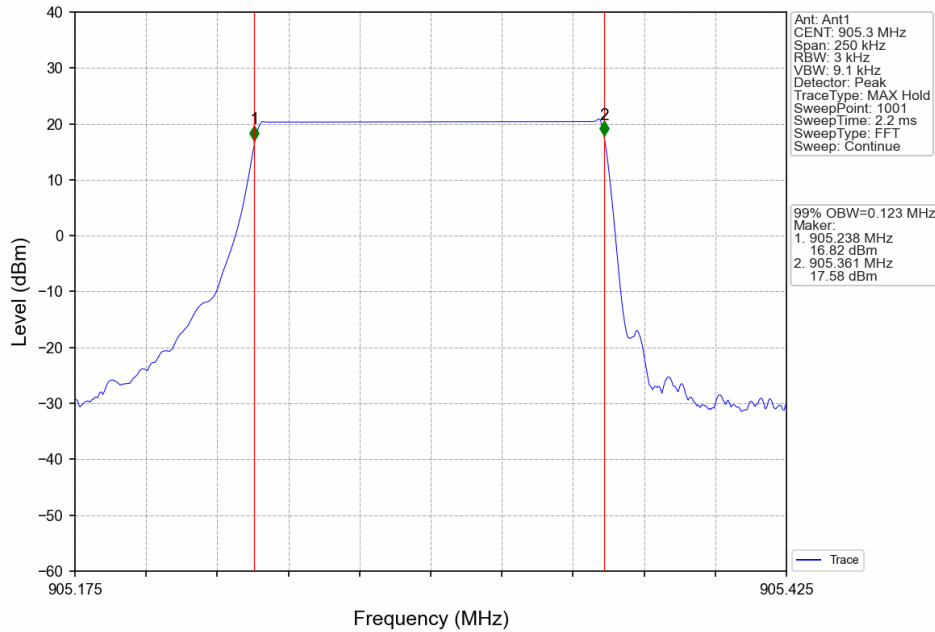
### DR0\_LCH\_903.9MHz\_Ant1\_NTNV



### DR0\_MCH\_904.5MHz\_Ant1\_NTNV



### DR0\_HCH\_905.3MHz\_Ant1\_NTNV



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## 1.2 20dB BW

### 1.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 20dB Bandwidth (MHz) | Verdict |
|------|---------|-----------------|-----|----------------------|---------|
|      |         |                 |     | Result               |         |
| DR3  | SISO    | 903.9           | 1   | 0.135                | Pass    |
|      |         | 904.5           | 1   | 0.134                | Pass    |
|      |         | 905.3           | 1   | 0.135                | Pass    |
| DR1  | SISO    | 903.9           | 1   | 0.135                | Pass    |
|      |         | 904.5           | 1   | 0.136                | Pass    |
|      |         | 905.3           | 1   | 0.135                | Pass    |
| DR0  | SISO    | 903.9           | 1   | 0.133                | Pass    |
|      |         | 904.5           | 1   | 0.133                | Pass    |
|      |         | 905.3           | 1   | 0.133                | Pass    |



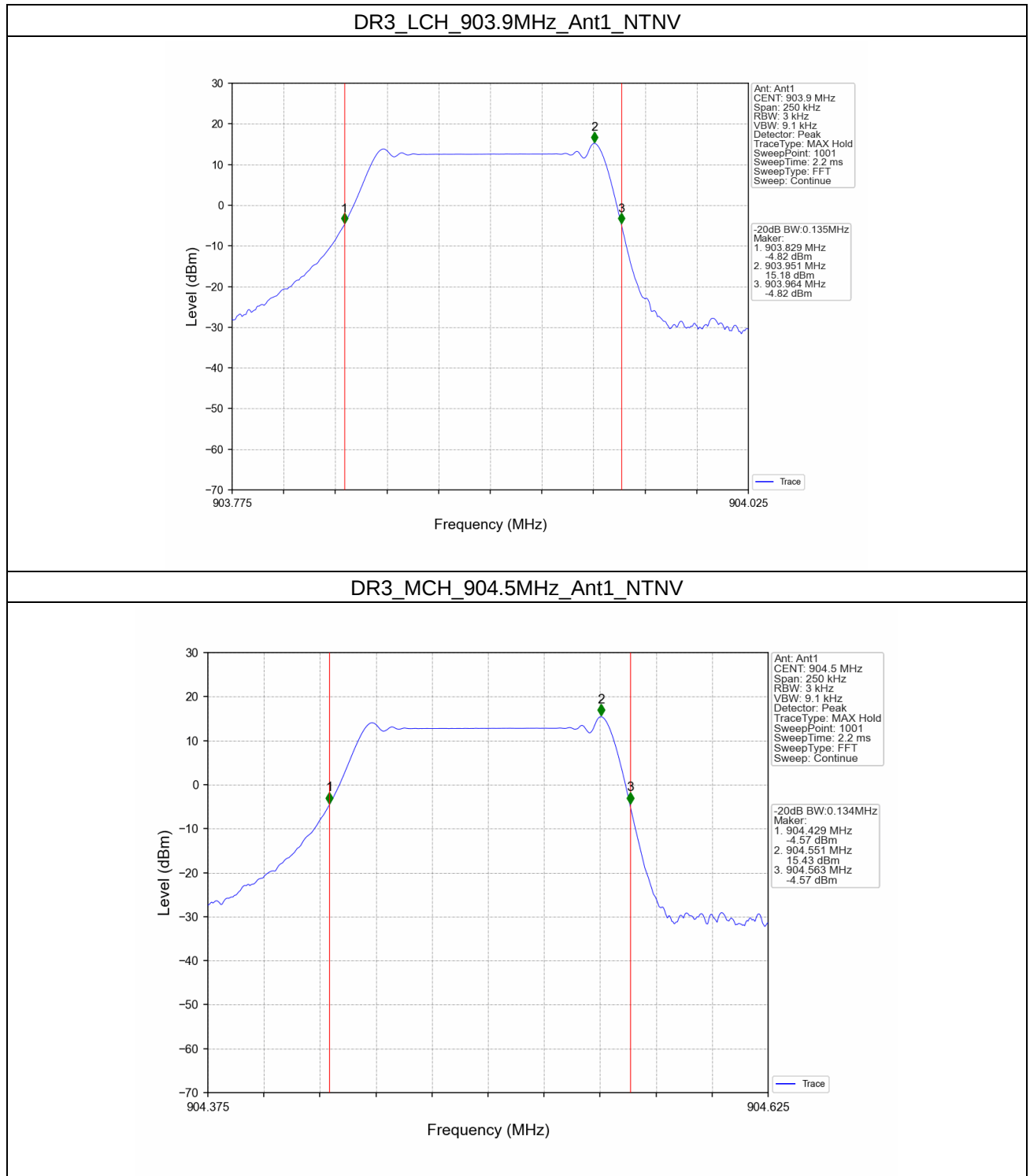
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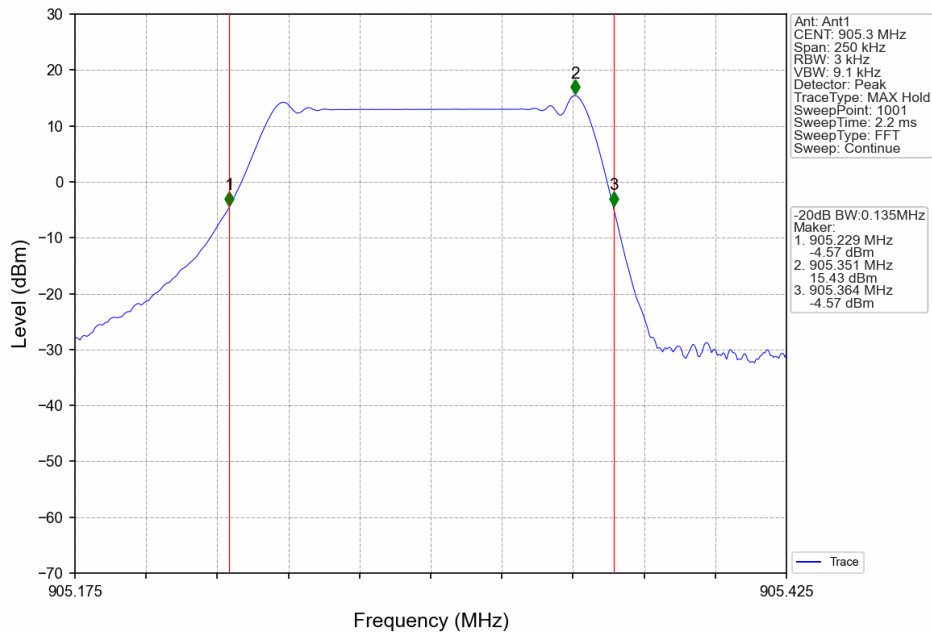
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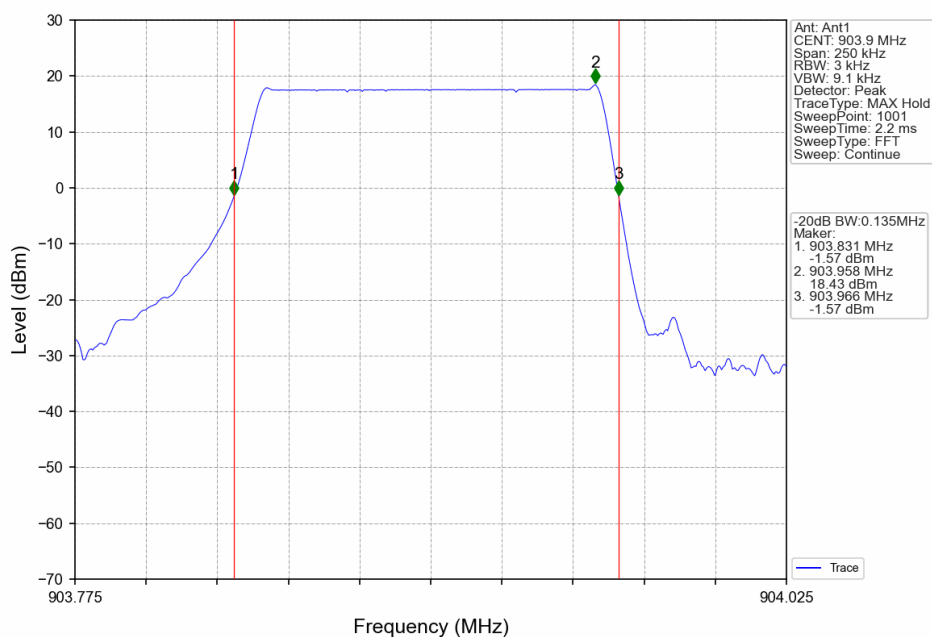
### 1.2.2 Test Graph



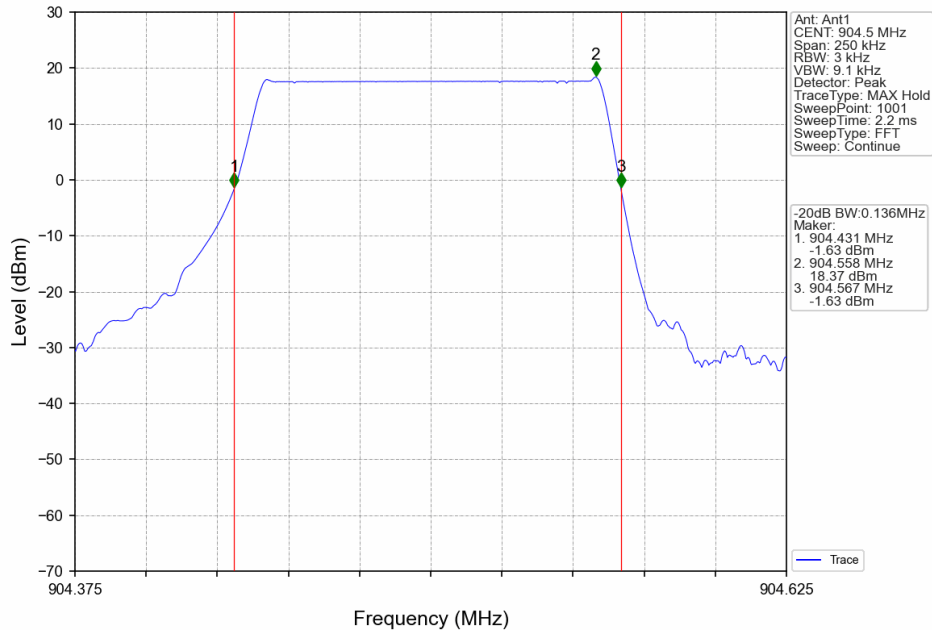
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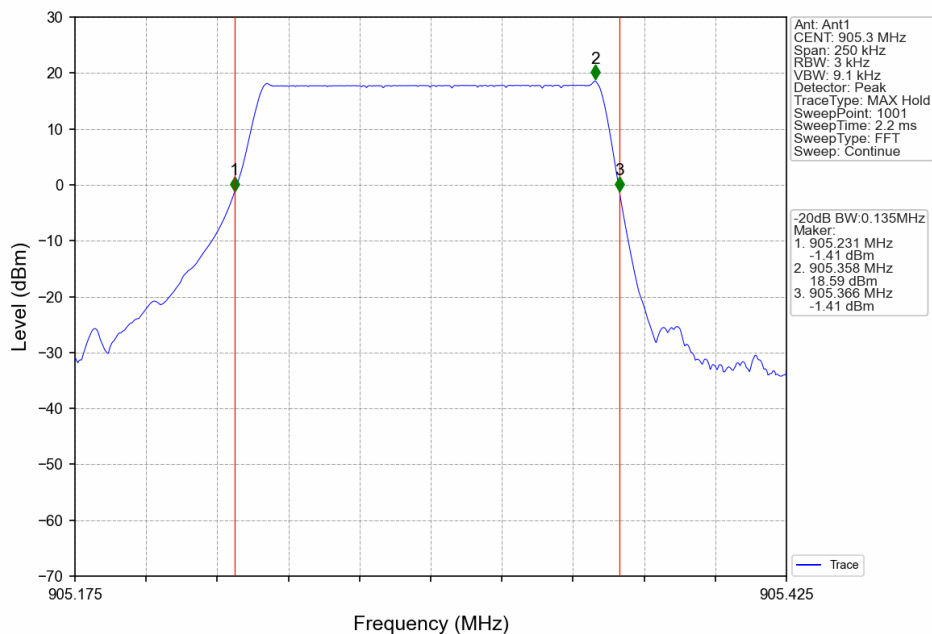
DR1\_LCH\_903.9MHz\_Ant1\_NTNV



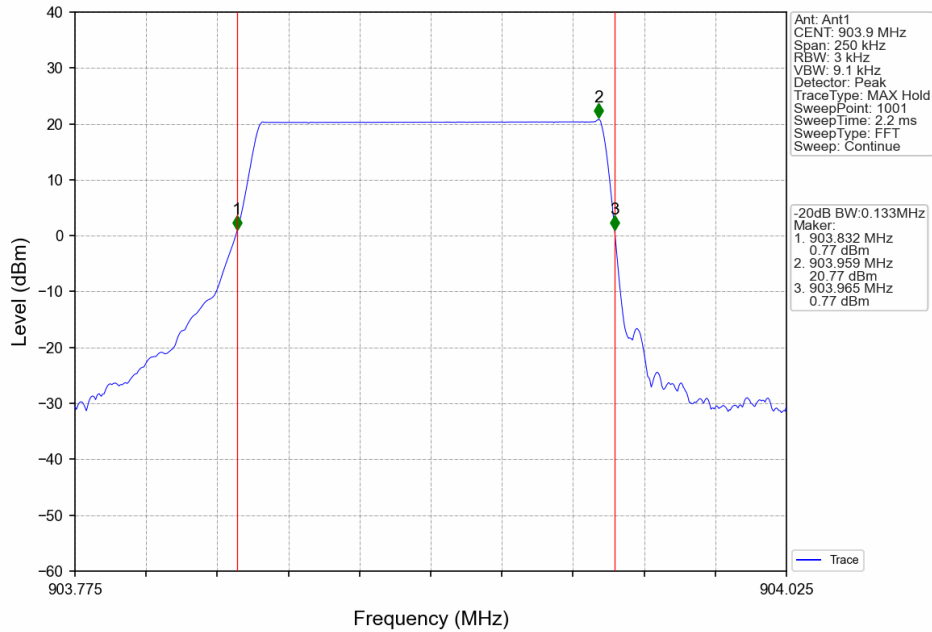
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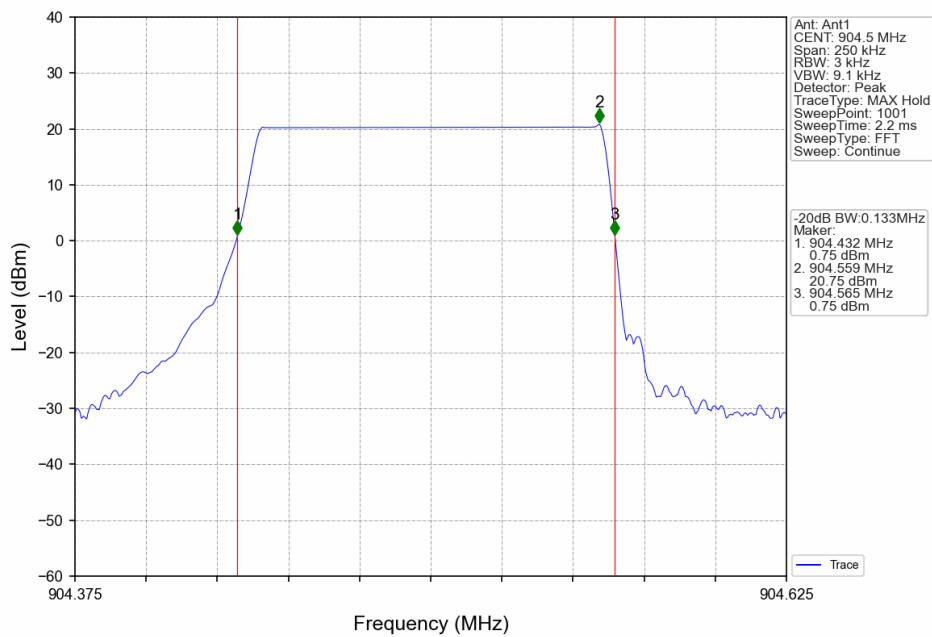
### DR1\_HCH\_905.3MHz\_Ant1\_NTNV



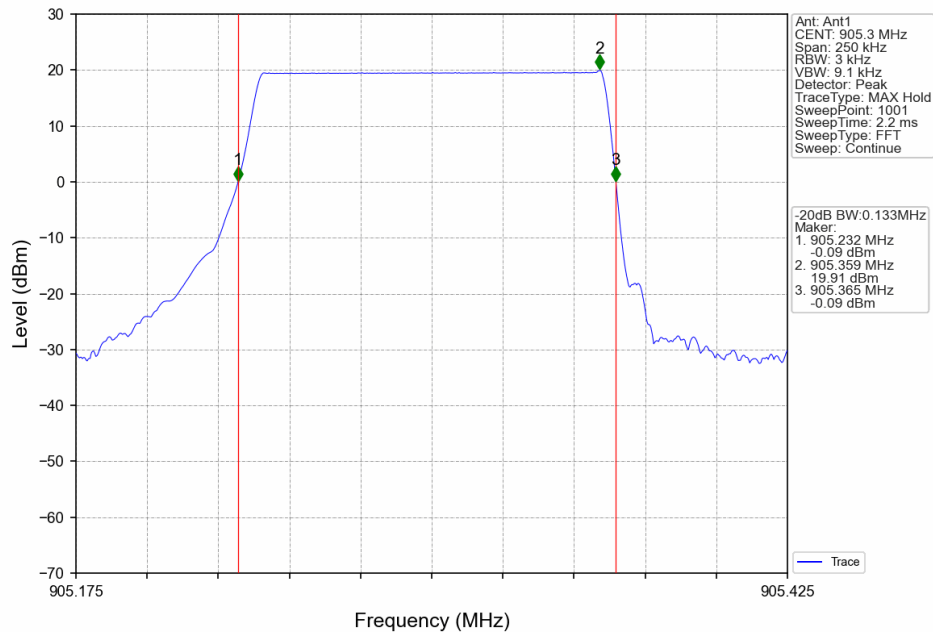
### DR0\_LCH\_903.9MHz\_Ant1\_NTNV



### DR0\_MCH\_904.5MHz\_Ant1\_NTNV



### DR0\_HCH\_905.3MHz\_Ant1\_NTNV



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## 2. Maximum Conducted Output Power

### 2.1 Power

#### 2.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       | Verdict |
|------|---------|-----------------|----------------------------------------------|-------|---------|
|      |         |                 | ANT1                                         | Limit |         |
| DR3  | SISO    | 903.9           | 20.24                                        | <=30  | Pass    |
|      |         | 904.5           | 20.28                                        | <=30  | Pass    |
|      |         | 905.3           | 20.41                                        | <=30  | Pass    |
| DR1  | SISO    | 903.9           | 20.19                                        | <=30  | Pass    |
|      |         | 904.5           | 20.24                                        | <=30  | Pass    |
|      |         | 905.3           | 20.35                                        | <=30  | Pass    |
| DR0  | SISO    | 903.9           | 20.13                                        | <=30  | Pass    |
|      |         | 904.5           | 20.21                                        | <=30  | Pass    |
|      |         | 905.3           | 20.35                                        | <=30  | Pass    |



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## 3. Carrier Frequency Separation

### 3.1 Ant1

#### 3.1.1 Test Result

| Ant1 |         |                 |                          |                      |              |         |
|------|---------|-----------------|--------------------------|----------------------|--------------|---------|
| Mode | TX Type | Frequency (MHz) | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| DR3  | SISO    | HOPP            | 0.200                    | 0.135                | $\geq 0.135$ | Pass    |
| DR1  | SISO    | HOPP            | 0.200                    | 0.136                | $\geq 0.136$ | Pass    |
| DR0  | SISO    | HOPP            | 0.200                    | 0.133                | $\geq 0.133$ | Pass    |



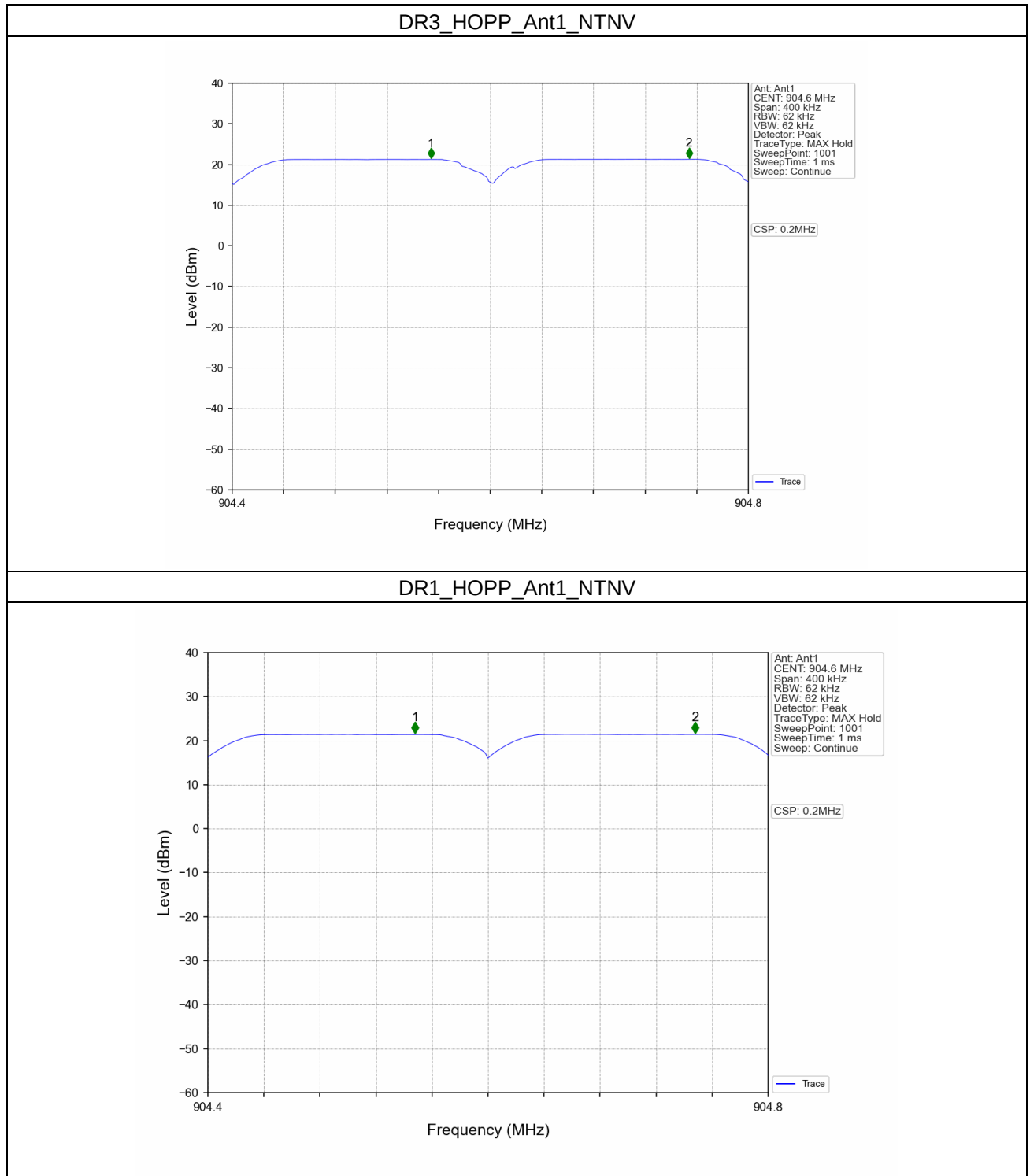
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### 3.1.2 Test Graph



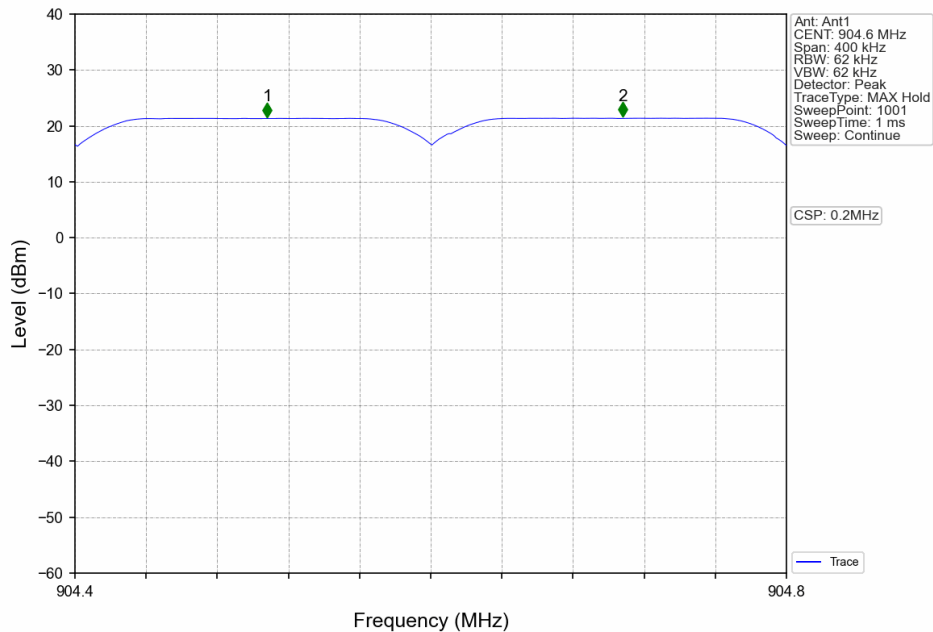
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### DR0\_HOPP\_Ant1\_NTNV



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## 4. Number of Hopping Frequencies

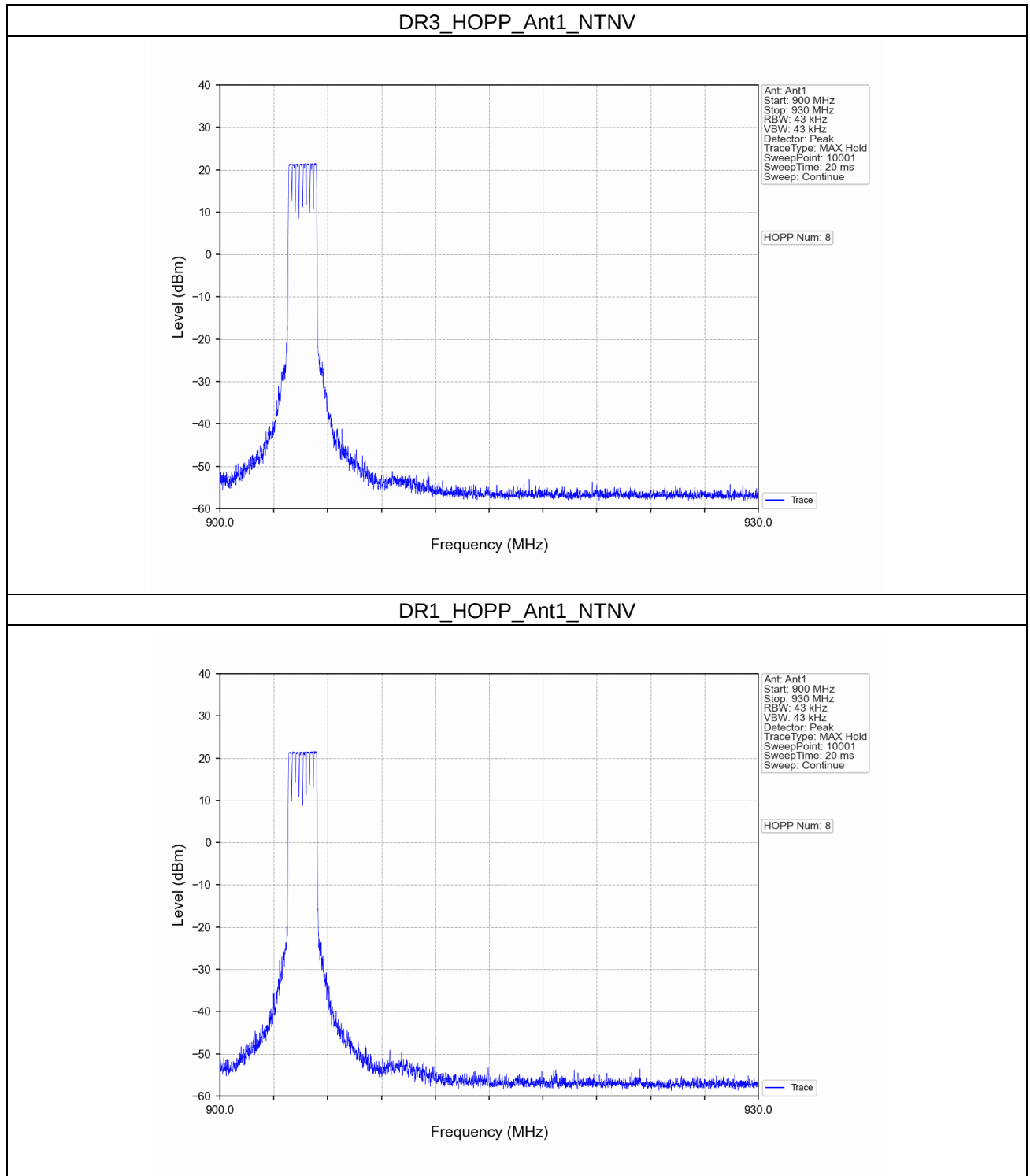
### 4.1 HoppNum

#### 4.1.1 Test Result

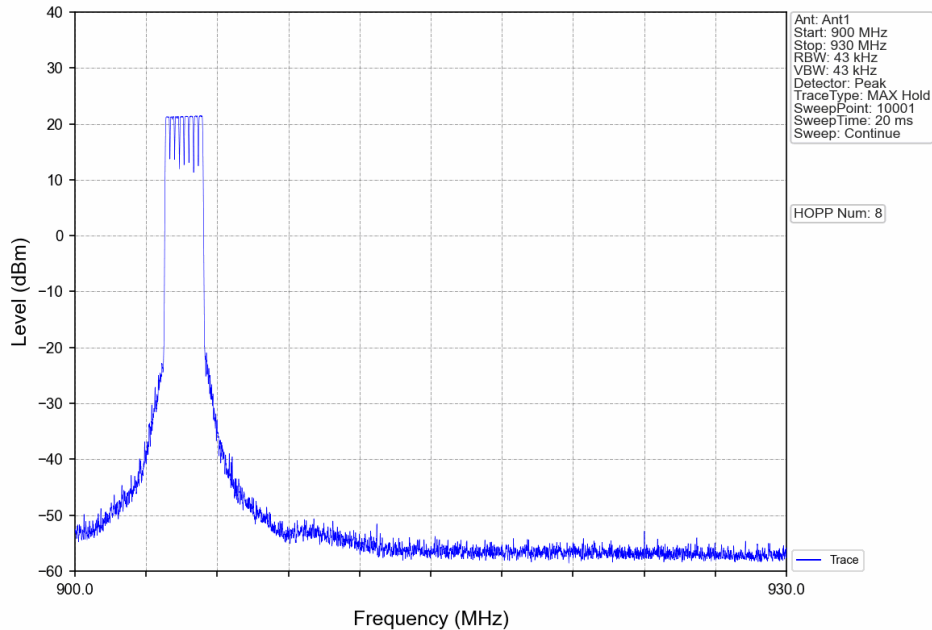
| Mode | TX Type | Frequency (MHz) | Num of Hopping Frequencies | Verdict |
|------|---------|-----------------|----------------------------|---------|
|      |         |                 | ANT1                       |         |
| DR3  | SISO    | HOPP            | 8                          | Pass    |
| DR1  | SISO    | HOPP            | 8                          | Pass    |
| DR0  | SISO    | HOPP            | 8                          | Pass    |



### 4.1.2 Test Graph



### DR0\_HOPP\_Ant1\_NTNV



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## 5. Time of Occupancy (Dwell Time)

### 5.1 Ant1

#### 5.1.1 Test Result

| Ant1 |         |                 |                               |                        |                                    |                 |            |         |
|------|---------|-----------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode | TX Type | Frequency (MHz) | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| DR3  | SISO    | HOPP            | 36.347                        | 20.000                 | 1                                  | 36.347          | <=400      | Pass    |
| DR1  | SISO    | HOPP            | 124.211                       | 20.000                 | 1                                  | 124.211         | <=400      | Pass    |
| DR0  | SISO    | HOPP            | 253.244                       | 20.000                 | 1                                  | 253.244         | <=400      | Pass    |

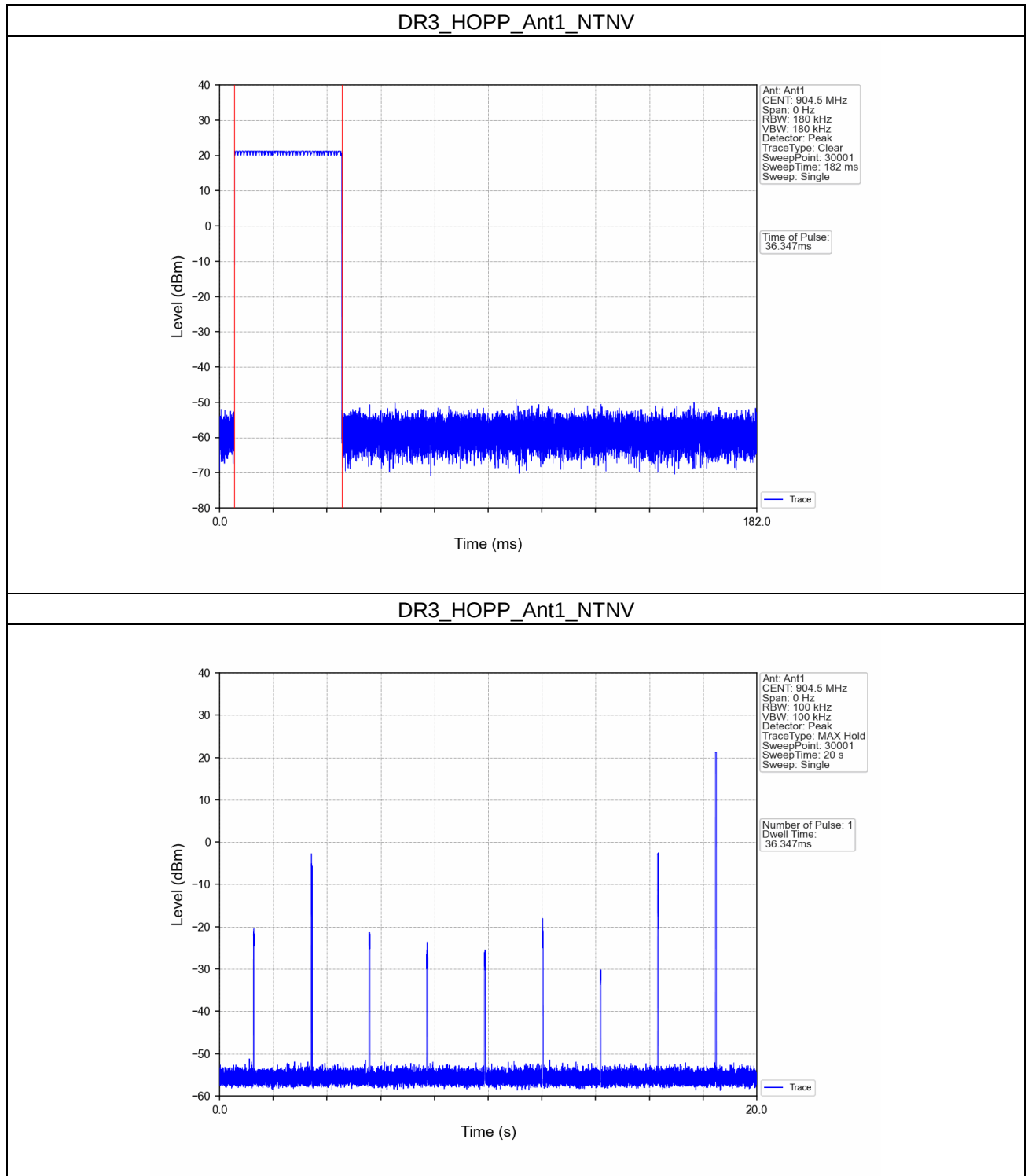


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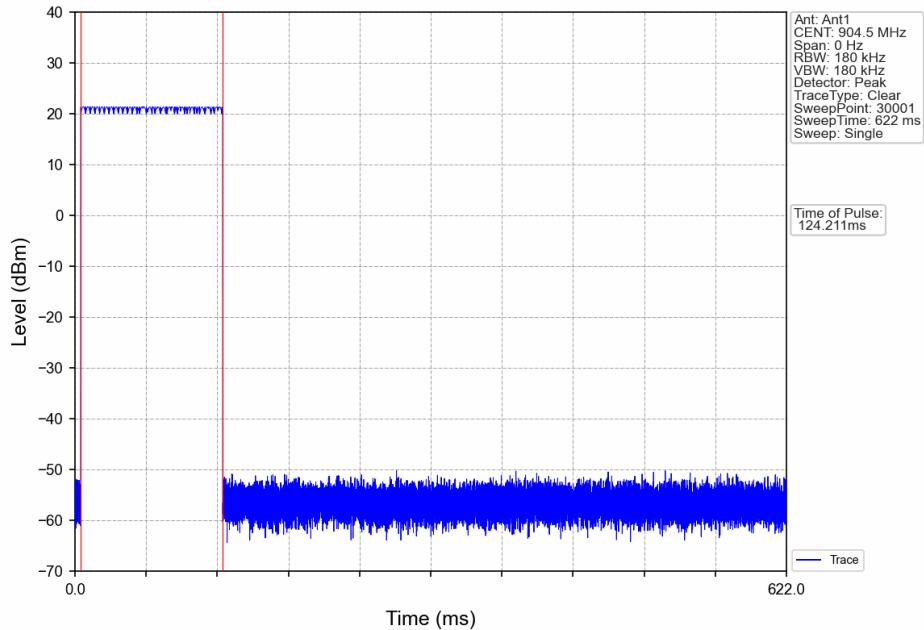
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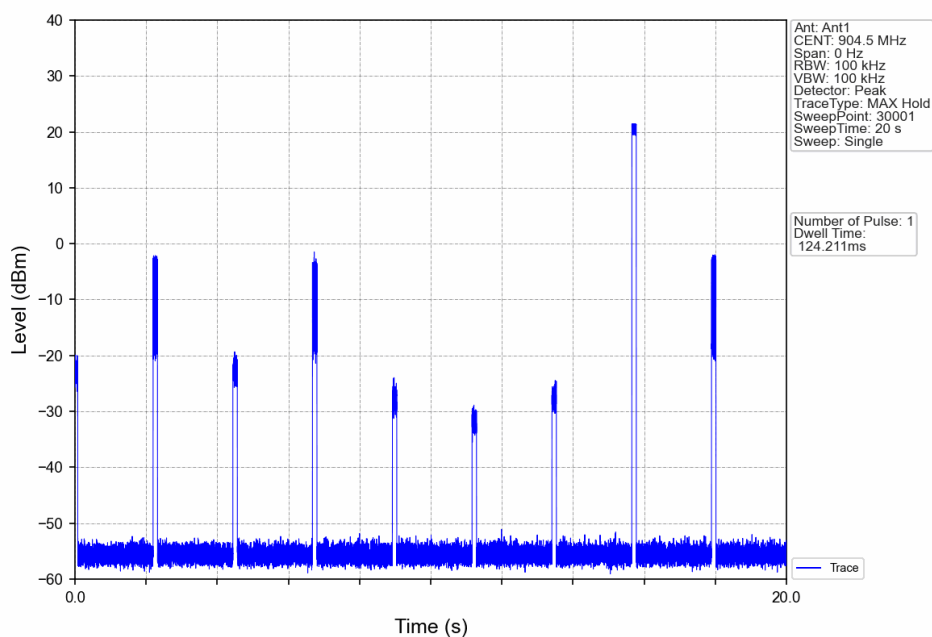
### 5.1.2 Test Graph



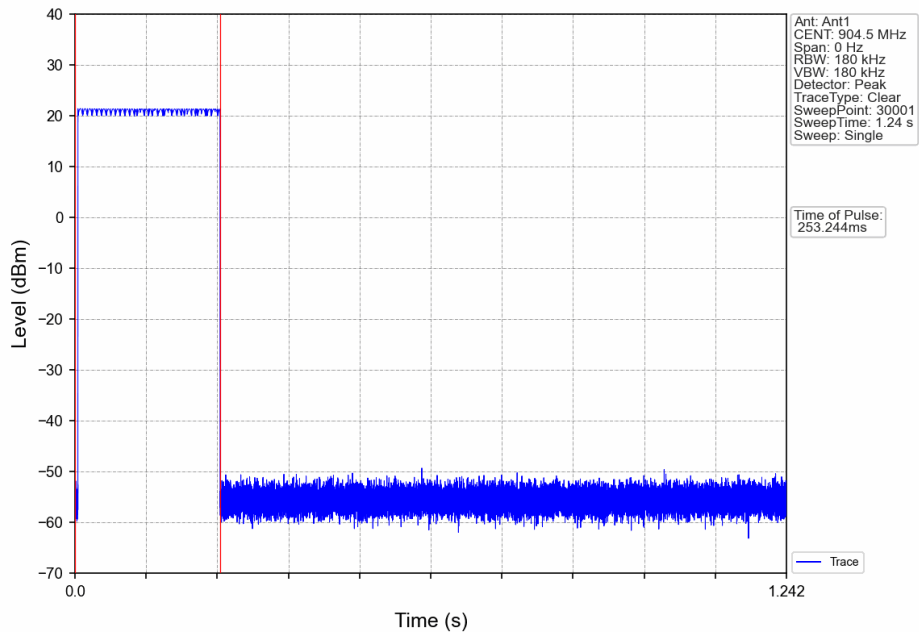
### DR1\_HOPP\_Ant1\_NTNV



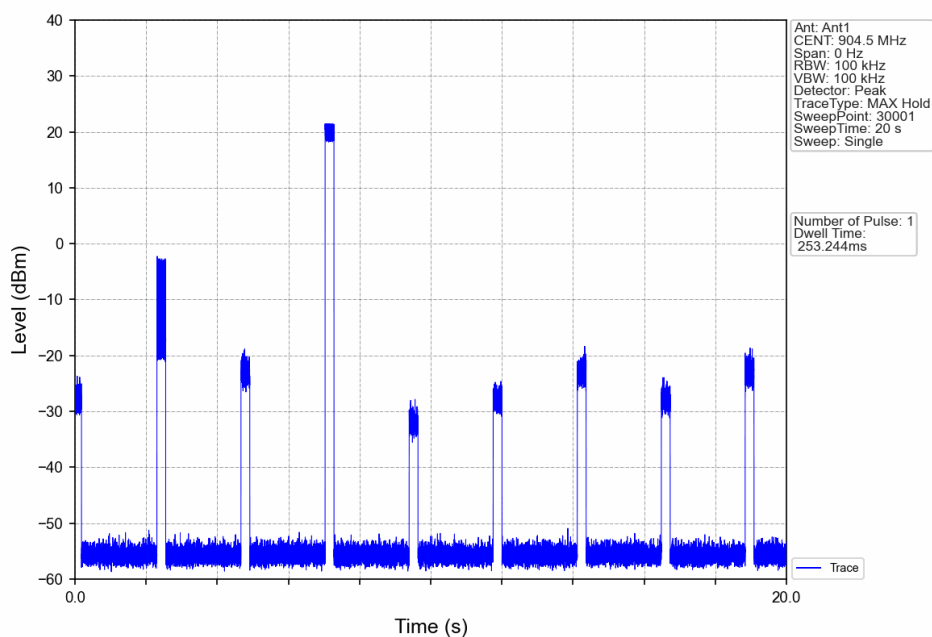
### DR1\_HOPP\_Ant1\_NTNV



### DR0\_HOPP\_Ant1\_NTNV



### DR0\_HOPP\_Ant1\_NTNV



## 6. Unwanted Emissions In Non-restricted Frequency Bands

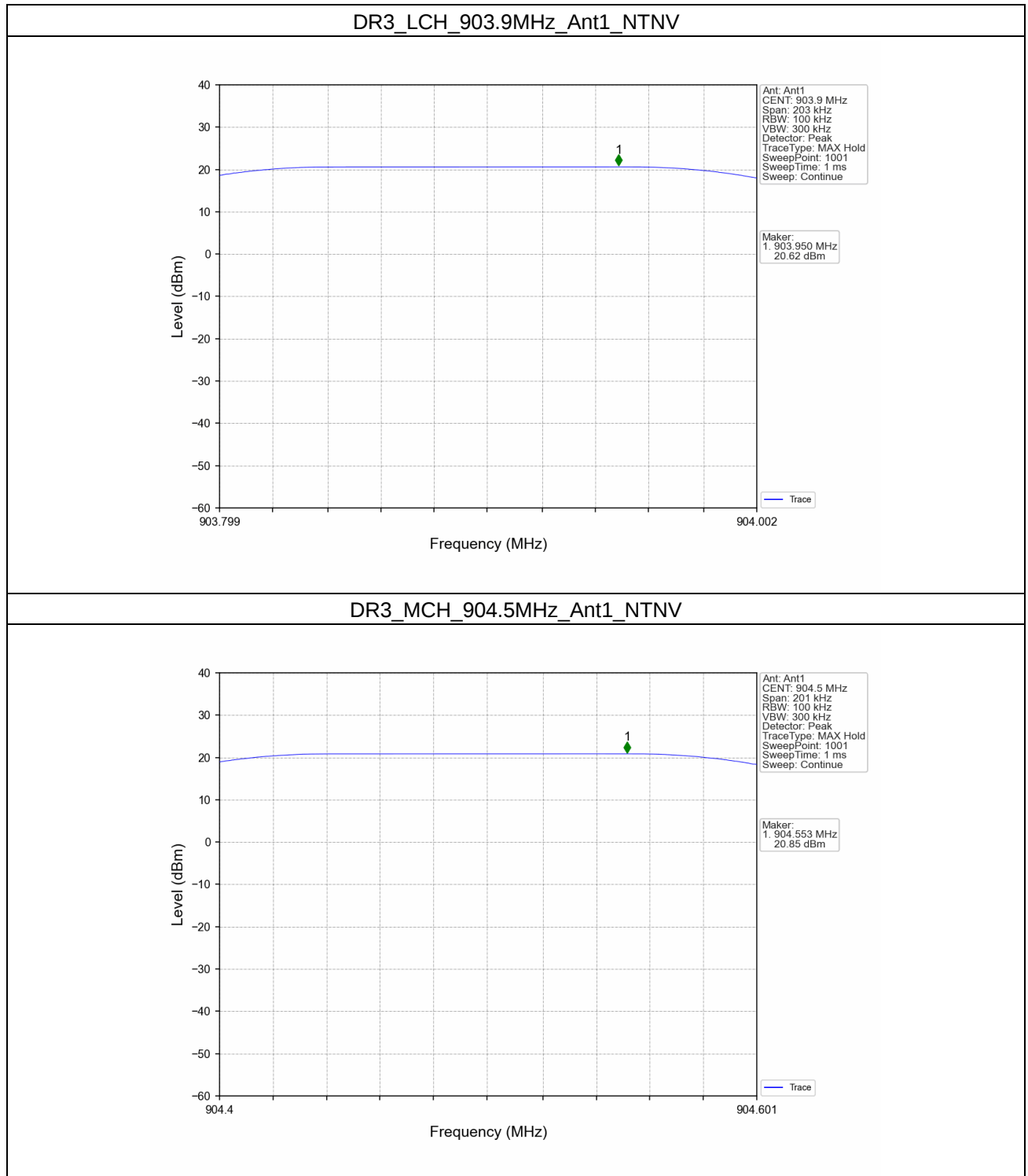
### 6.1 Ref

#### 6.1.1 Test Result

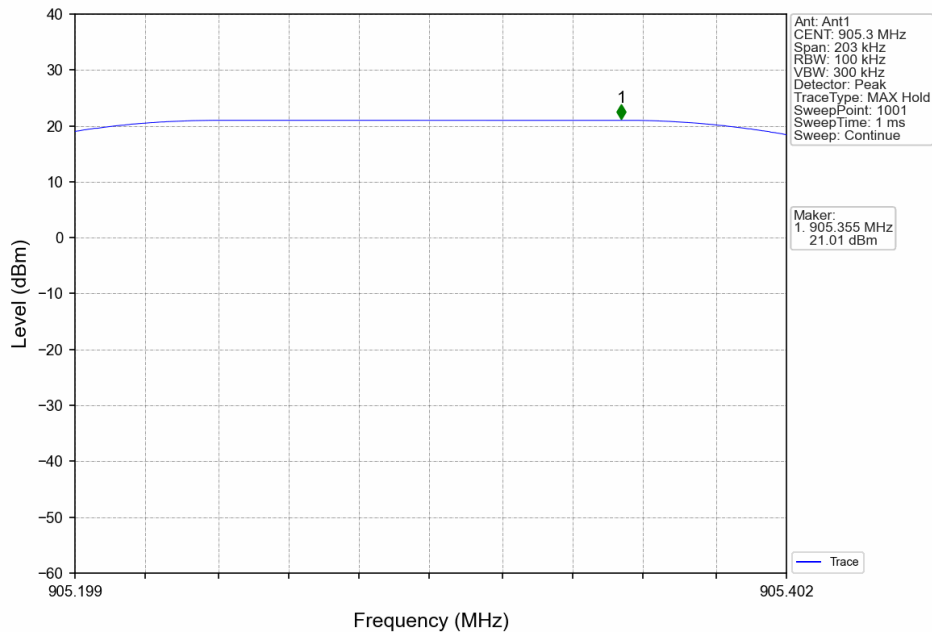
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------|---------|-----------------|-----|--------------------------|
| DR3  | SISO    | 903.9           | 1   | 20.62                    |
|      |         | 904.5           | 1   | 20.85                    |
|      |         | 905.3           | 1   | 21.01                    |
| DR1  | SISO    | 903.9           | 1   | 20.15                    |
|      |         | 904.5           | 1   | 20.23                    |
|      |         | 905.3           | 1   | 20.38                    |
| DR0  | SISO    | 903.9           | 1   | 21.23                    |
|      |         | 904.5           | 1   | 21.20                    |
|      |         | 905.3           | 1   | 20.37                    |



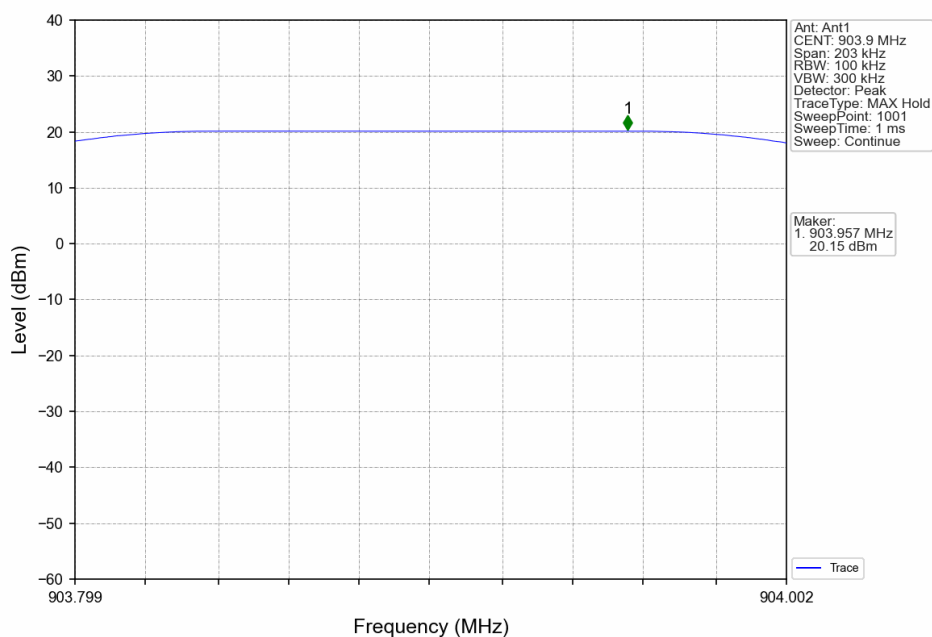
### 6.1.2 Test Graph



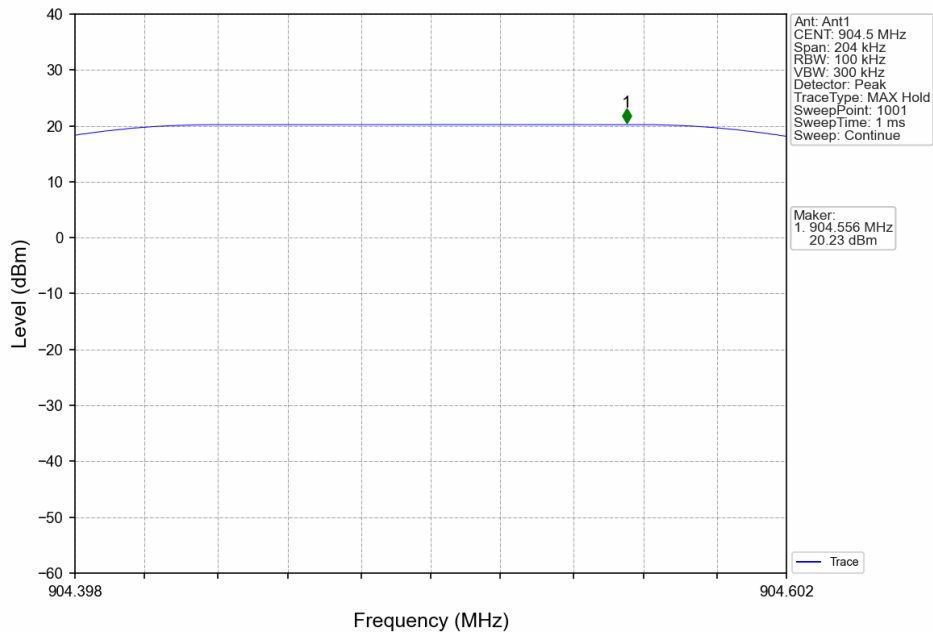
### DR3\_HCH\_905.3MHz\_Ant1\_NTNV



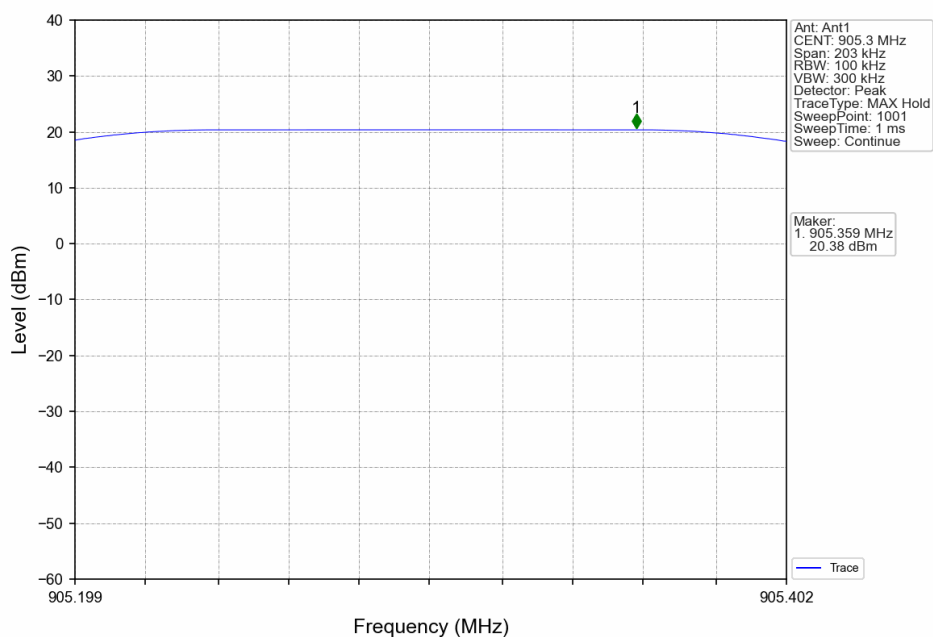
### DR1\_LCH\_903.9MHz\_Ant1\_NTNV



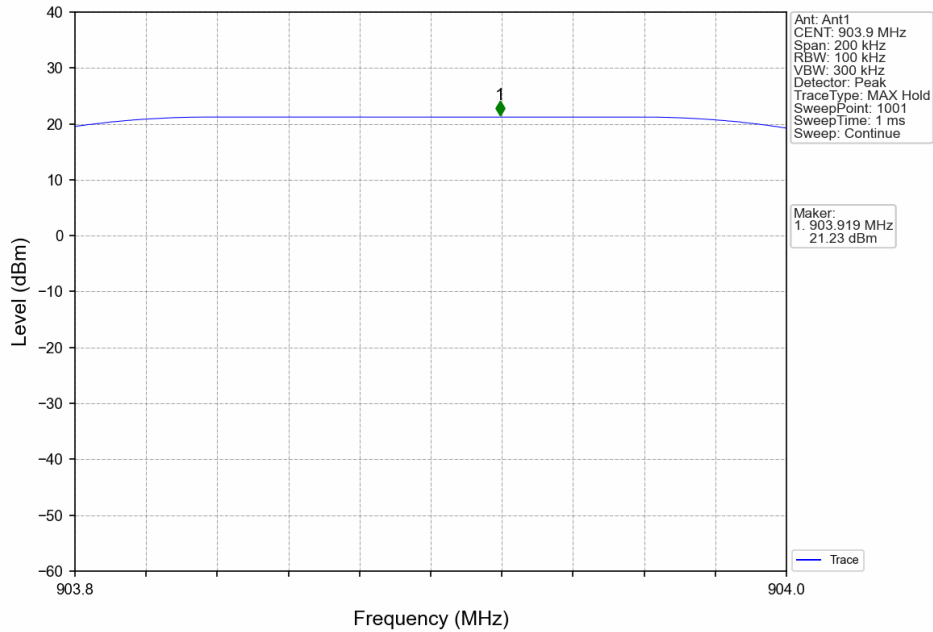
### DR1\_MCH\_904.5MHz\_Ant1\_NTNV



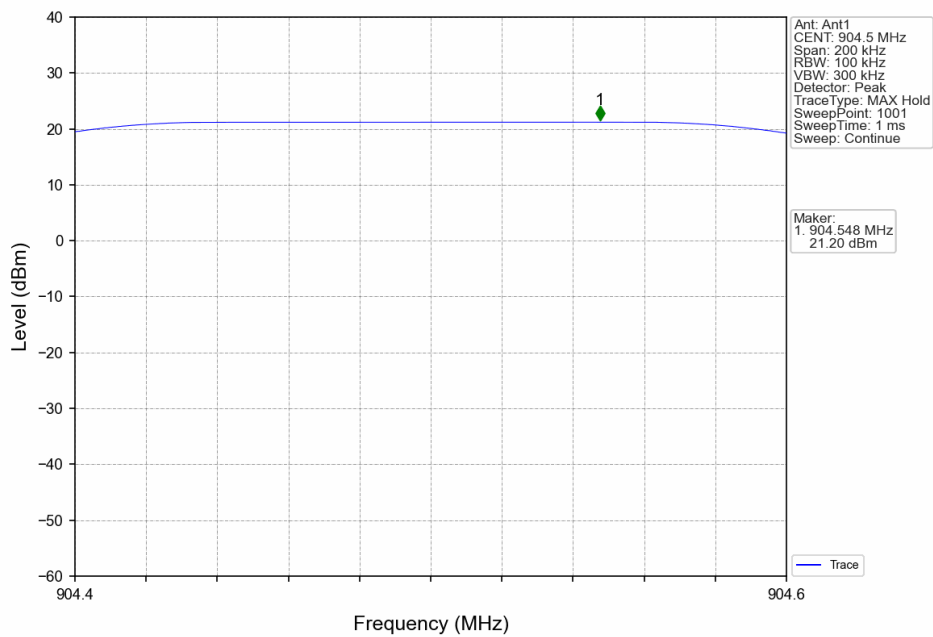
### DR1\_HCH\_905.3MHz\_Ant1\_NTNV



### DR0\_LCH\_903.9MHz\_Ant1\_NTNV



### DR0\_MCH\_904.5MHz\_Ant1\_NTNV

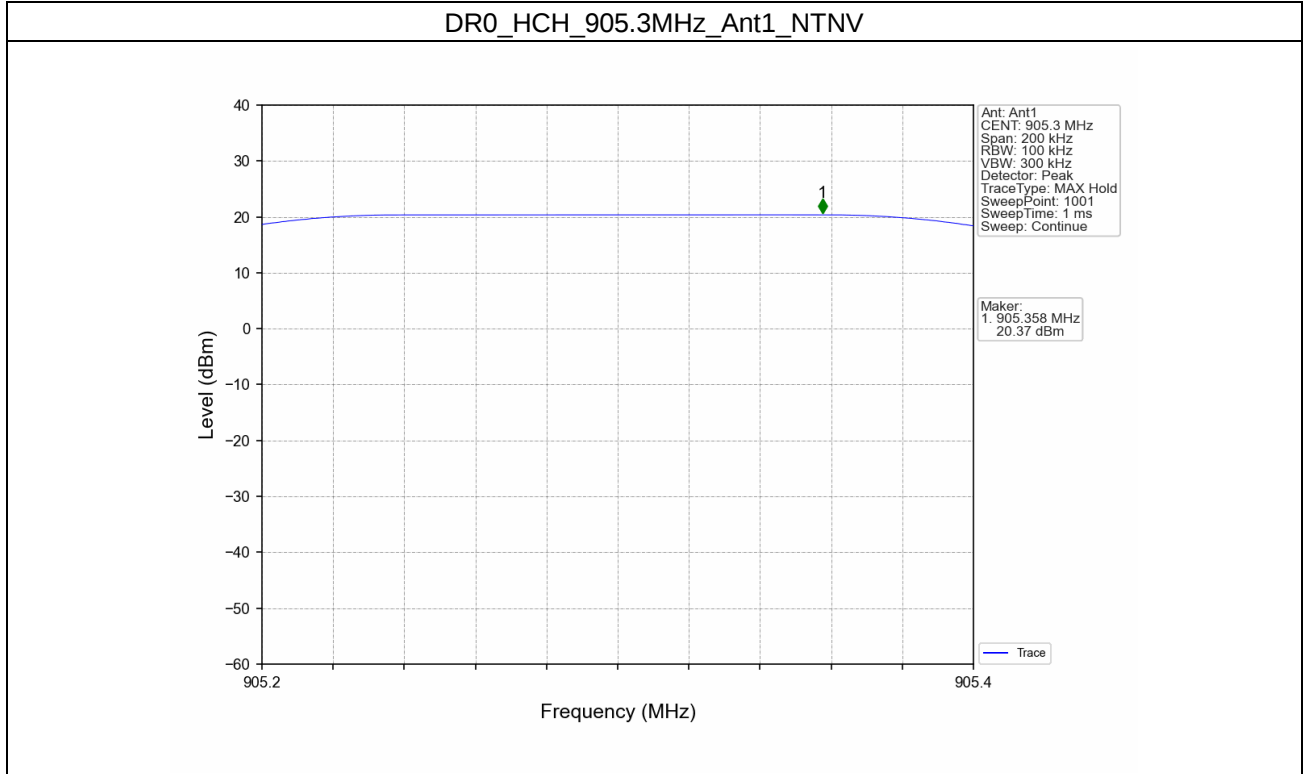


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## 6.2 CSE

### 6.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|---------|-----------------|-----|--------------------------|-------------|---------|
| DR3  | SISO    | 903.9           | 1   | 21.01                    | 1.01        | Pass    |
|      |         | 904.5           | 1   | 21.01                    | 1.01        | Pass    |
|      |         | 905.3           | 1   | 21.01                    | 1.01        | Pass    |
|      |         | HOPP            | 1   | 21.01                    | 1.01        | Pass    |
| DR1  | SISO    | 903.9           | 1   | 20.38                    | 0.38        | Pass    |
|      |         | 904.5           | 1   | 20.38                    | 0.38        | Pass    |
|      |         | 905.3           | 1   | 20.38                    | 0.38        | Pass    |
|      |         | HOPP            | 1   | 20.38                    | 0.38        | Pass    |
| DR0  | SISO    | 903.9           | 1   | 21.23                    | 1.23        | Pass    |
|      |         | 904.5           | 1   | 21.23                    | 1.23        | Pass    |
|      |         | 905.3           | 1   | 21.23                    | 1.23        | Pass    |
|      |         | HOPP            | 1   | 21.23                    | 1.23        | Pass    |



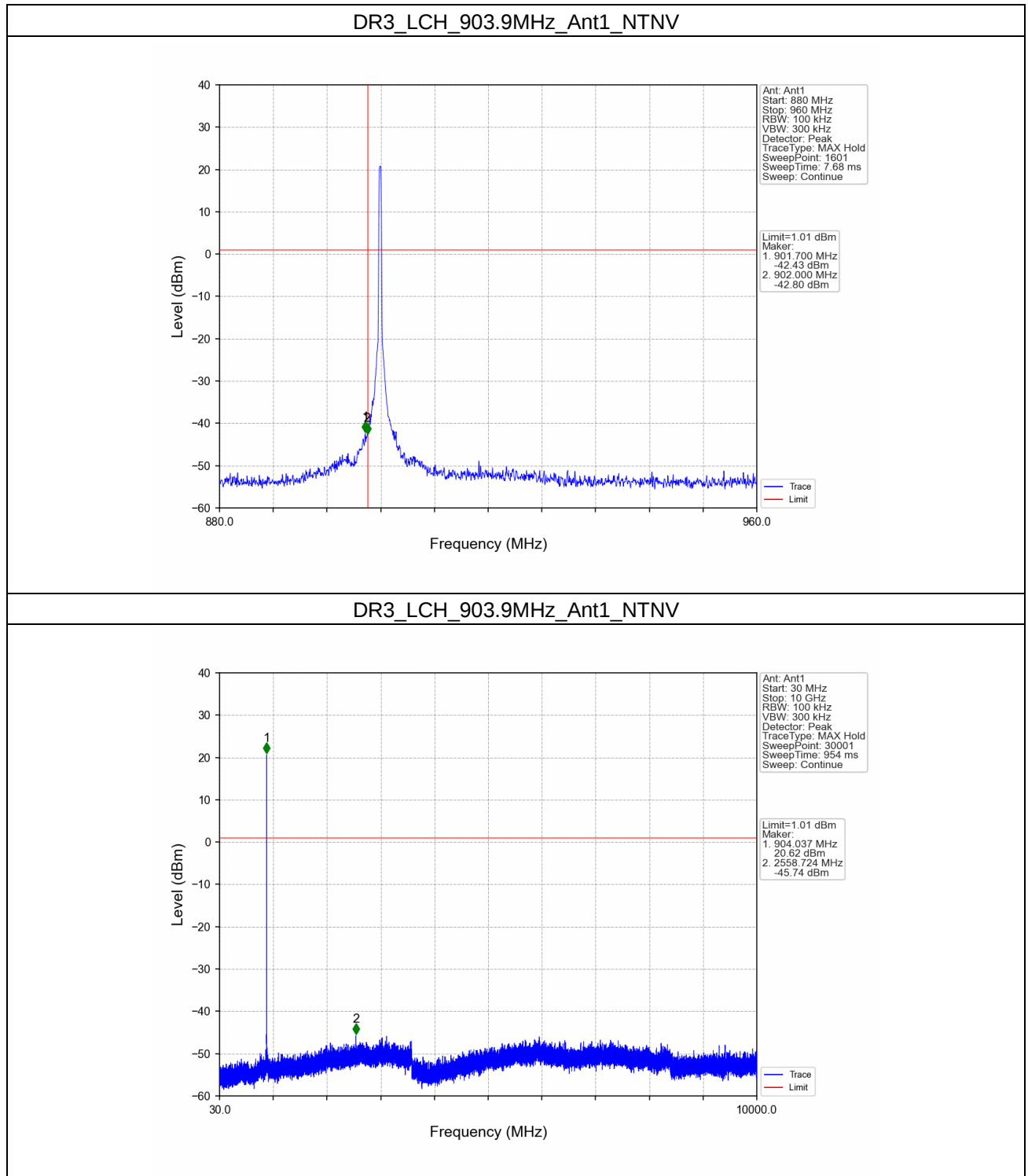
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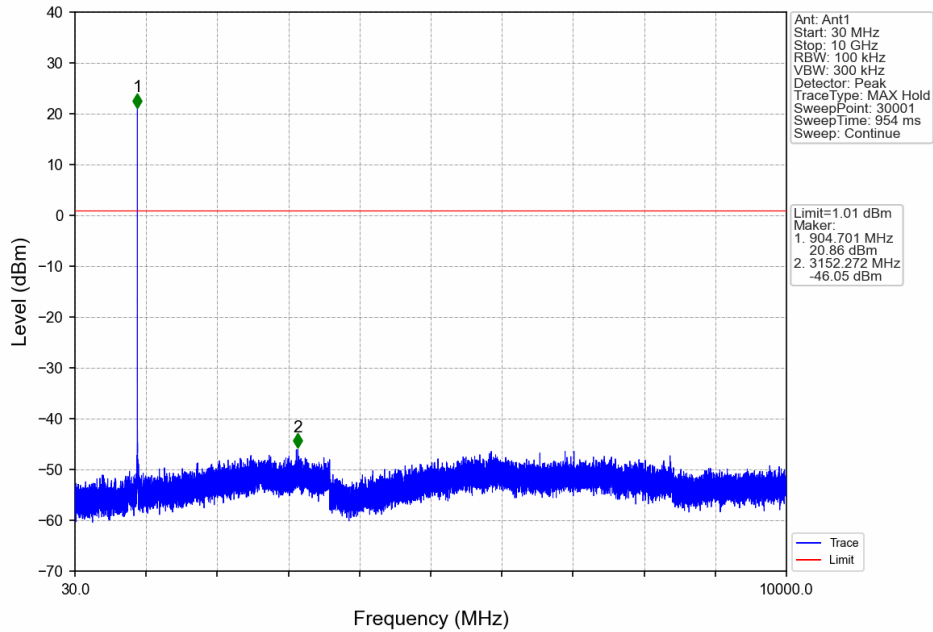
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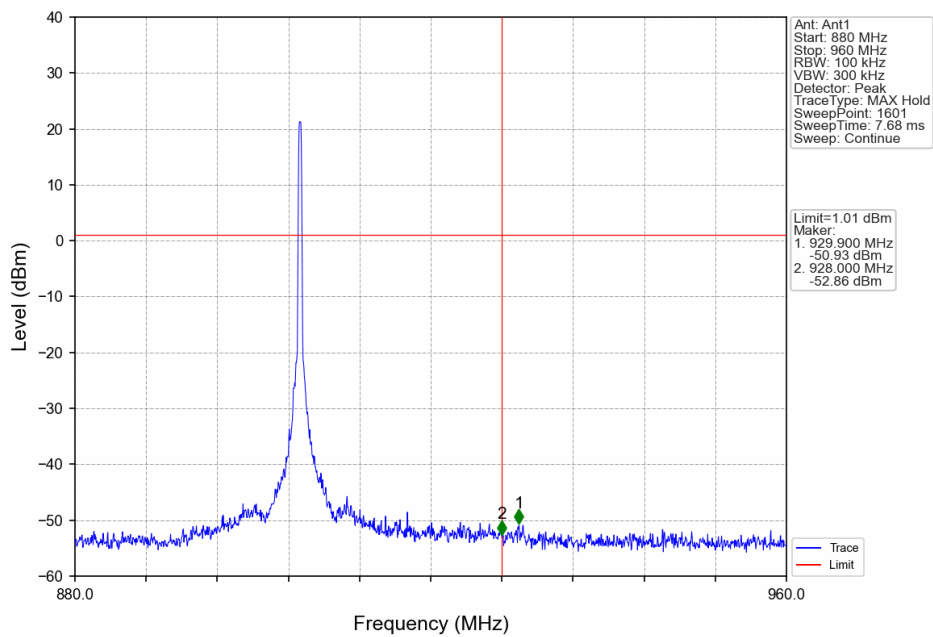
### 6.2.2 Test Graph



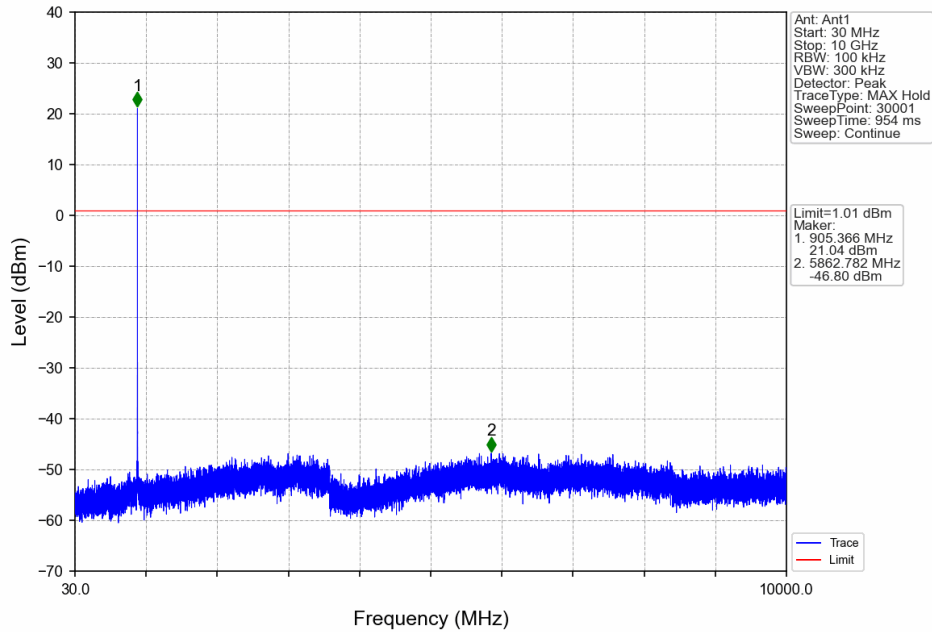
### DR3\_MCH\_904.5MHz\_Ant1\_NTNV



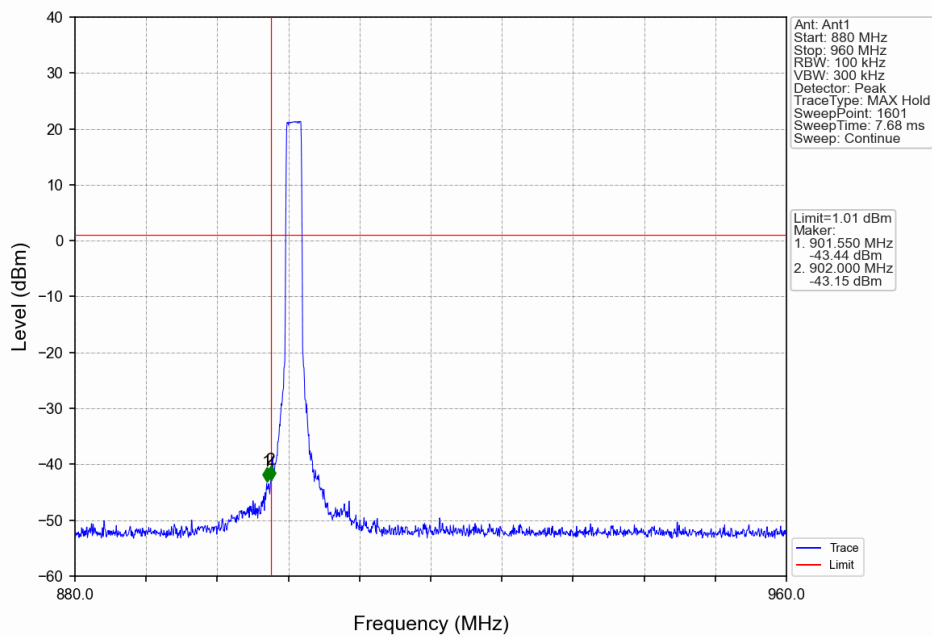
### DR3\_HCH\_905.3MHz\_Ant1\_NTNV



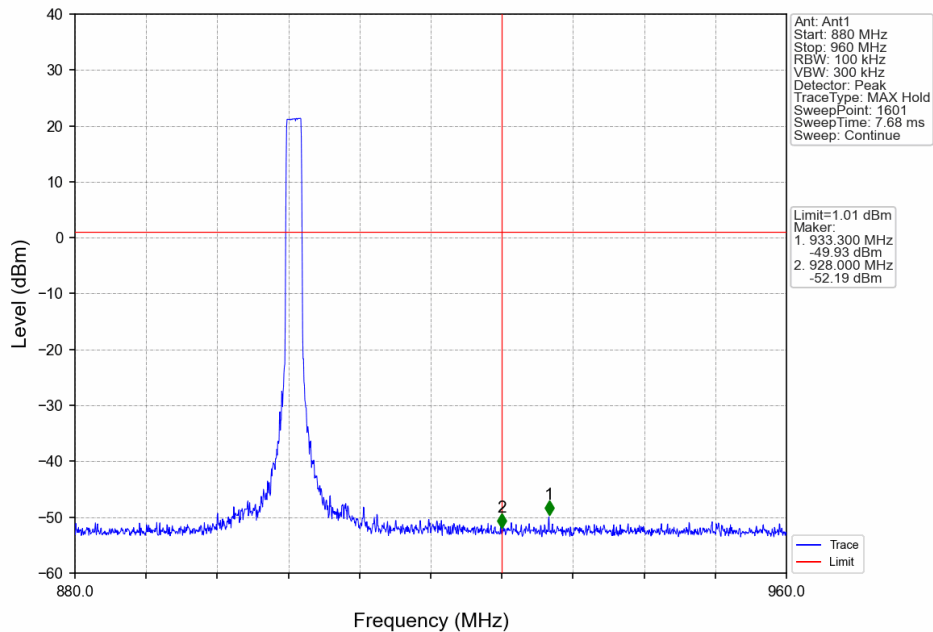
### DR3\_HCH\_905.3MHz\_Ant1\_NTNV



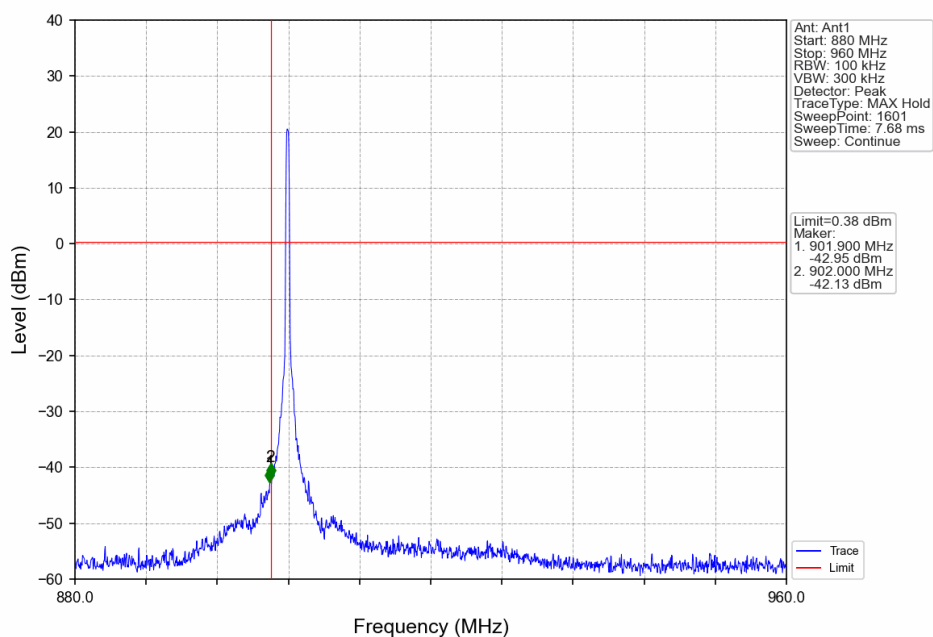
### DR3\_HOPP\_Ant1\_NTNV



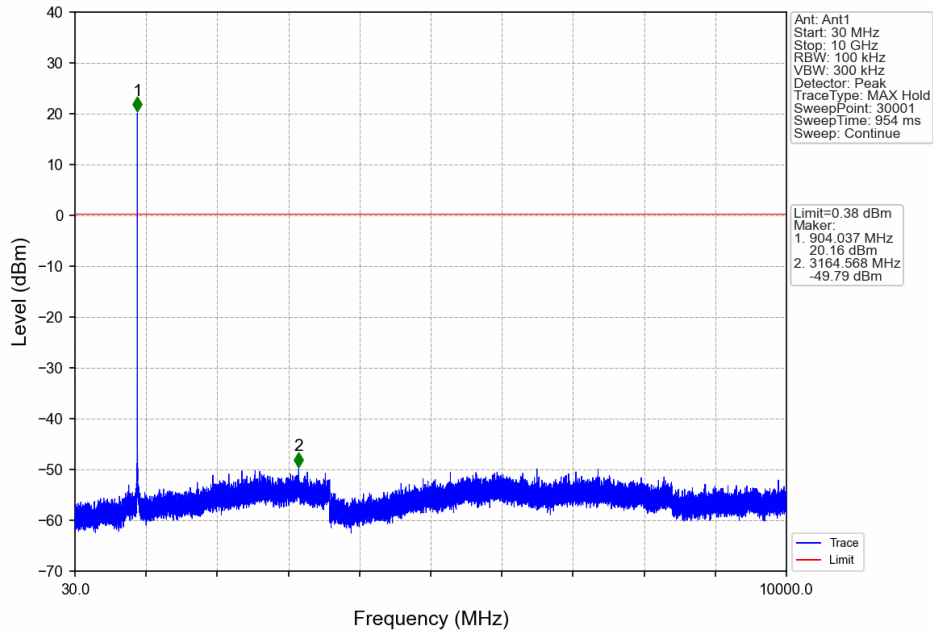
### DR3\_HOPP\_Ant1\_NTNV



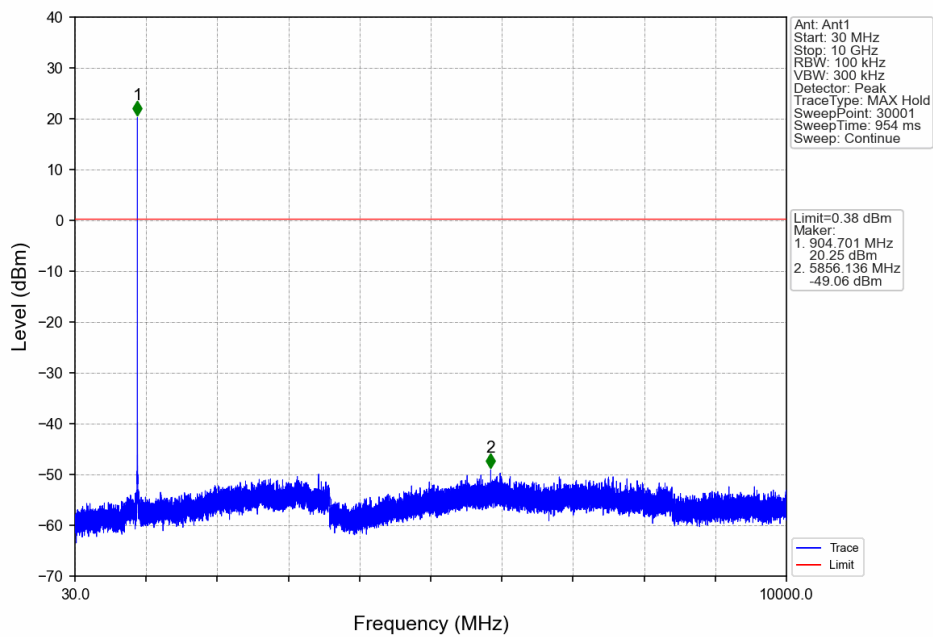
### DR1\_LCH\_903.9MHz\_Ant1\_NTNV



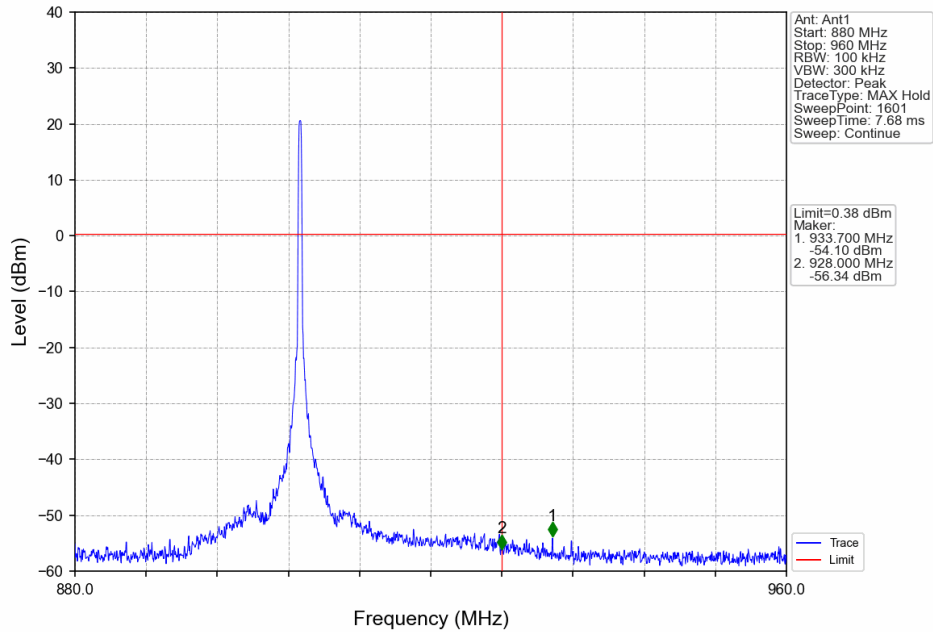
### DR1\_LCH\_903.9MHz\_Ant1\_NTNV



### DR1\_MCH\_904.5MHz\_Ant1\_NTNV



DR1\_HCH\_905.3MHz\_Ant1\_NTNV



DR1\_HCH\_905.3MHz\_Ant1\_NTNV

