

TEST REPORT

Product : Intelligent Automotive Detection Tool
Trade mark : **SmartSafe**
Model/Type reference : iSmartTool 601Max,
iSmartTool 601,
iSmartTool 601BT,
iSmartTool 601TT
Serial Number : N/A
Report Number : EED32N80831504
FCC ID : 2AYANISMARTTOOL
Date of Issue : Oct. 25, 2021
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

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Prepared by:

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Oct. 25, 2021

Report Seal

David Wang

Check No.:2230060921

1 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | Oct. 25, 2021 | Original |
| | | |
| | | |

2 Test Summary

| Test Item | Test Requirement | Test method | Result |
|----------------------------------|---|------------------|--------|
| Antenna Requirement | 47 CFR Part 15 Subpart C Section 15.203 | ANSI C63.10:2013 | PASS |
| AC Power Line Conducted Emission | 47 CFR Part 15 Subpart C Section 15.207 | ANSI C63.10:2013 | PASS |
| Radiated Spurious Emissions | 47 CFR Part 15 Subpart C Section 15.209 | ANSI C63.10:2013 | PASS |
| 20dB Bandwidth | 47 CFR Part 15 Subpart C Section 2.1049 | ANSI C63.10:2013 | PASS |

Remark:

1. Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

2. Model No.: iSmartTool 601Max, iSmartTool 601, iSmartTool 601BT, iSmartTool 601TT

Only the model iSmartTool 601Max was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being software, and model name.

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4 General Information

4.1 Client Information

| | |
|--------------------------|--|
| Applicant: | SHENZHEN SMARTSAFE TECH CO., LTD. |
| Address of Applicant: | 3F, Building B, Qiao'an Technology Industrial Park, Guanlan, Longhua New District, Shenzhen, China |
| Manufacturer: | SHENZHEN SMARTSAFE TECH CO., LTD. |
| Address of Manufacturer: | 3F, Building B, Qiao'an Technology Industrial Park, Guanlan, Longhua New District, Shenzhen, China |
| Factory: | SHENZHEN SMARTSAFE TECH CO., LTD. |
| Address of Factory: | 3F, Building B, Qiao'an Technology Industrial Park, Guanlan, Longhua New District, Shenzhen, China |

4.2 General Description of EUT

| | | |
|-----------------------|--|---|
| Product Name: | Intelligent Automotive Detection Tool | |
| Model No.(EUT): | iSmartTool 601Max | |
| Add Model No.: | iSmartTool 601, iSmartTool 601BT, iSmartTool 601TT | |
| Trade Mark: |  | |
| Product Type: | <input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location | |
| Frequency Range: | 125kHz | |
| Modulation Type: | ASK | |
| Number of Channels: | 1 | |
| Antenna Type: | Internal antenna | |
| Antenna Gain: | 0dBi | |
| Power Supply: | AC Adapter | Model:C1902XZ/C1902XA/C1902XJ Input:100-240V~50/60Hz 0.5A Output:PD:5.0V,3.0A/9.0V,2.22A/12.0V,1.67A MAX:20.0W |
| | Rechargeable lithium ion battery | Model:KPL3878100-2S1P DC 7.6V,4500mAh,34.2Wh |
| Test voltage: | Rechargeable lithium ion battery DC 7.6V | |
| Sample Received Date: | Sep. 06, 2021 | |
| Sample tested Date: | Sep. 06, 2021 to Oct. 25, 2021 | |

4.3 Test Environment and Mode

| | |
|-------------------------------------|--|
| Operating Environment: | |
| Radiated Spurious Emissions: | |
| Temperature: | 22~25.0 °C |
| Humidity: | 50~55 % RH |
| Atmospheric Pressure: | 1010mbar |
| Conducted Emissions: | |
| Temperature: | 22~25.0 °C |
| Humidity: | 50~55 % RH |
| Atmospheric Pressure: | 1010mbar |
| RF Conducted: | |
| Temperature: | 22~25.0 °C |
| Humidity: | 50~55 % RH |
| Atmospheric Pressure: | 1010mbar |
| Test mode: | |
| Transmitting mode: | Keep the EUT in transmitting mode with modulation. |

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

| Description | Manufacturer | Model No. | Certification | Supplied by |
|-------------|---|-----------|---------------|-------------|
| Sensor | SHENZHEN SMARTSAFE TECH CO., LTD. | LTR-01 | CE&FCC | Client |

4.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.

4.8 Other Information Requested by the Customer

None.

4.9 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 7.9 x 10 ⁻⁸ |
| 2 | RF power, conducted | 0.46dB (30MHz-1GHz) |
| | | 0.55dB (1GHz-18GHz) |
| 3 | Radiated Spurious emission test | 3.3dB (9kHz-30MHz) |
| | | 4.3dB (30MHz-1GHz) |
| | | 4.5dB (1GHz-12.75GHz) |
| 4 | Conduction emission | 3.5dB (9kHz to 150kHz) |
| | | 3.1dB (150kHz to 30MHz) |
| 5 | Temperature test | 0.64°C |
| 6 | Humidity test | 3.8% |
| 7 | DC power voltages | 0.026% |

5 Equipment List

| RF test system | | | | | |
|-------------------|--------------|----------|---------------|------------------------|----------------------------|
| Equipment | Manufacturer | Mode No. | Serial Number | Cal. Date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Spectrum Analyzer | R&S | FSV40 | 101200 | 08-26-2021 | 08-25-2022 |

| 3M Semi/full-anechoic Chamber | | | | | |
|----------------------------------|------------------|----------------------------------|----------------|--------------------------|----------------------------|
| Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| 3M Chamber & Accessory Equipment | TDK | SAC-3 | --- | 05-24-2019 | 05-23-2022 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB9163 | 9163-618 | 05-16-2021 | 05-15-2022 |
| Loop Antenna | Schwarzbeck | FMZB 1519B | 1519B-076 | 04-15-2021 | 04-14-2024 |
| Receiver | R&S | ESCI7 | 100938-003 | 10-16-2020 10-15-2021 | 10-15-2021 10-14-2022 |
| Multi device Controller | matur | NCD/070/107 11112 | --- | --- | --- |
| Temperature/ Humidity Indicator | Shanghai qixiang | HM10 | 1804298 | 06-24-2021 | 06-23-2022 |
| Communication test set | Agilent | E5515C | GB4705053 4 | 03-01-2019 | 02-28-2022 |
| Cable line | Fulai(7M) | SF106 | 5219/6A | --- | --- |
| Cable line | Fulai(6M) | SF106 | 5220/6A | --- | --- |
| Cable line | Fulai(3M) | SF106 | 5216/6A | --- | --- |
| Cable line | Fulai(3M) | SF106 | 5217/6A | --- | --- |
| band rejection filter | Sinoscite | FL5CX01CA 08CL12- 0393-001 | --- | --- | --- |

| Conducted disturbance Test | | | | | |
|---------------------------------|--------------|-----------|---------------|------------------------|----------------------------|
| Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Receiver | R&S | ESCI | 100435 | 04-15-2021 | 04-14-2022 |
| Temperature/ Humidity Indicator | Defu | TH128 | / | --- | --- |
| LISN | R&S | ENV216 | 100098 | 03-04-2021 | 03-03-2022 |
| Barometer | changchun | DYM3 | 1188 | --- | --- |

6 Test results and Measurement Data

6.1 Antenna Requirement

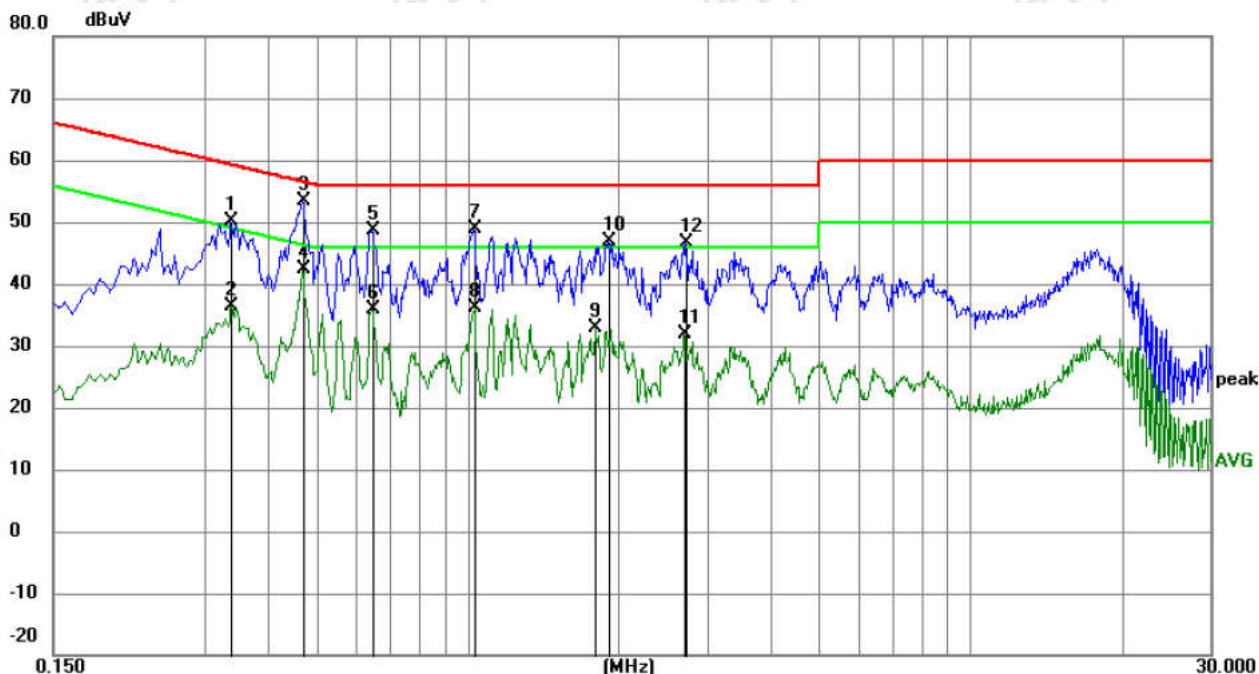
| | |
|---|--------------------------------|
| Standard requirement: | 47 CFR Part 15C Section 15.203 |
| 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently 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: | Please see Internal photos |
| The antenna is Internal antenna. The best case gain of the antenna is 0dBi. | |

6.2 AC Power Line Conducted Emissions

| | | | |
|--|---|--------------|-----------|
| Test Requirement: | 47 CFR Part 15C Section 15.207 | | |
| Test Method: | ANSI C63.10: 2013 | | |
| Test Frequency Range: | 150kHz to 30MHz | | |
| Receiver setup: | RBW=9 kHz, VBW=30 kHz, Sweep time=auto | | |
| Limit: | Frequency range (MHz) | Limit (dBuV) | |
| | | 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. | | | |
| Test Setup: | | | |
| Test Procedure: | <ol style="list-style-type: none"> 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 $50\Omega/50\mu\text{H} + 5\Omega$ 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: 2013 on conducted measurement. | | |
| Test Mode: | All modes were tested, only the worst case was recorded in the report. | | |
| Test Voltage: | AC 120V/60Hz | | |
| Test Results: | Pass | | |

Measurement Data

Live line:

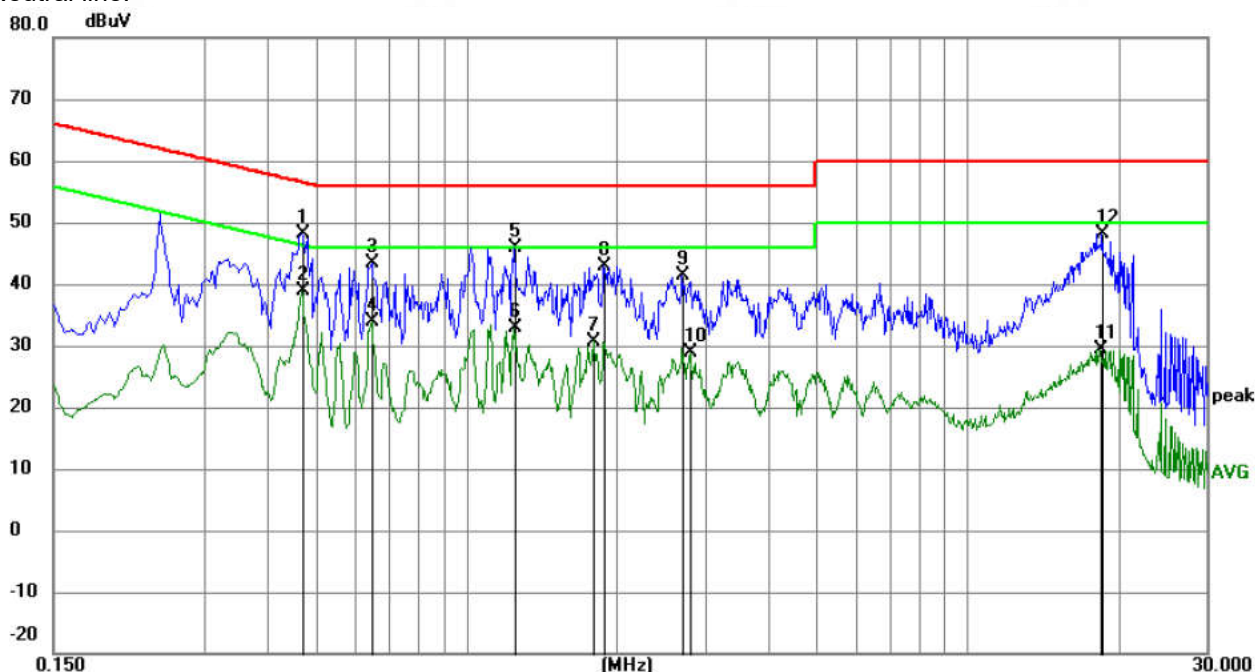


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | | 0.3390 | 40.03 | 10.03 | 50.06 | 59.23 | -9.17 | peak | |
| 2 | | 0.3390 | 26.31 | 10.03 | 36.34 | 49.23 | -12.89 | AVG | |
| 3 | * | 0.4695 | 43.40 | 9.96 | 53.36 | 56.52 | -3.16 | peak | |
| 4 | | 0.4695 | 32.49 | 9.96 | 42.45 | 46.52 | -4.07 | AVG | |
| 5 | | 0.6450 | 38.60 | 9.98 | 48.58 | 56.00 | -7.42 | peak | |
| 6 | | 0.6450 | 25.83 | 9.98 | 35.81 | 46.00 | -10.19 | AVG | |
| 7 | | 1.0275 | 39.16 | 9.83 | 48.99 | 56.00 | -7.01 | peak | |
| 8 | | 1.0320 | 26.33 | 9.83 | 36.16 | 46.00 | -9.84 | AVG | |
| 9 | | 1.7970 | 23.01 | 9.80 | 32.81 | 46.00 | -13.19 | AVG | |
| 10 | | 1.9050 | 36.99 | 9.79 | 46.78 | 56.00 | -9.22 | peak | |
| 11 | | 2.6970 | 22.06 | 9.79 | 31.85 | 46.00 | -14.15 | AVG | |
| 12 | | 2.7105 | 36.76 | 9.79 | 46.55 | 56.00 | -9.45 | peak | |

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | | 0.4695 | 38.23 | 9.96 | 48.19 | 56.52 | -8.33 | peak | |
| 2 | * | 0.4695 | 29.02 | 9.96 | 38.98 | 46.52 | -7.54 | AVG | |
| 3 | | 0.6495 | 33.48 | 9.98 | 43.46 | 56.00 | -12.54 | peak | |
| 4 | | 0.6495 | 23.81 | 9.98 | 33.79 | 46.00 | -12.21 | AVG | |
| 5 | | 1.2435 | 36.09 | 9.82 | 45.91 | 56.00 | -10.09 | peak | |
| 6 | | 1.2435 | 23.09 | 9.82 | 32.91 | 46.00 | -13.09 | AVG | |
| 7 | | 1.7970 | 20.95 | 9.80 | 30.75 | 46.00 | -15.25 | AVG | |
| 8 | | 1.8870 | 33.14 | 9.79 | 42.93 | 56.00 | -13.07 | peak | |
| 9 | | 2.7015 | 31.65 | 9.79 | 41.44 | 56.00 | -14.56 | peak | |
| 10 | | 2.7960 | 19.14 | 9.79 | 28.93 | 46.00 | -17.07 | AVG | |
| 11 | | 18.3750 | 19.51 | 9.96 | 29.47 | 50.00 | -20.53 | AVG | |
| 12 | | 18.6180 | 38.28 | 9.96 | 48.24 | 60.00 | -11.76 | peak | |

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

6.3 Radiated Spurious Emissions

Test Requirement: 47 CFR Part 15C Section 15.231(b) and 15.209

Test Method: ANSI C63.10 2013

Test Site: Measurement Distance: 3m (Semi-Anechoic Chamber)

Receiver Setup:

| Frequency | Detector | RBW | VBW | Remark |
|-------------------|------------|--------|--------|------------|
| 0.009MHz-0.090MHz | Peak | 10kHz | 30kHz | Peak |
| 0.009MHz-0.090MHz | Average | 10kHz | 30kHz | Average |
| 0.090MHz-0.110MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| 0.110MHz-0.490MHz | Peak | 10kHz | 30kHz | Peak |
| 0.110MHz-0.490MHz | Average | 10kHz | 30kHz | Average |
| 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| 30MHz-1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Peak | 1MHz | 10Hz | Average |

Test Setup:

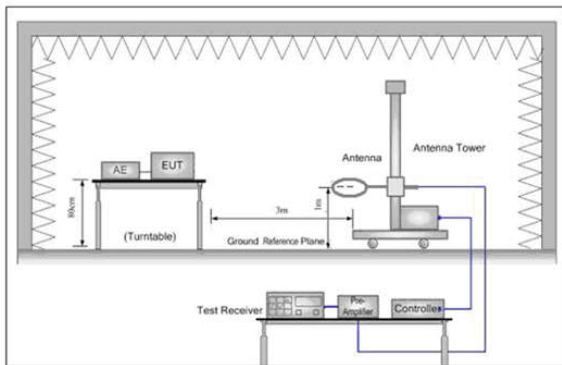


Figure 1. Below 30MHz

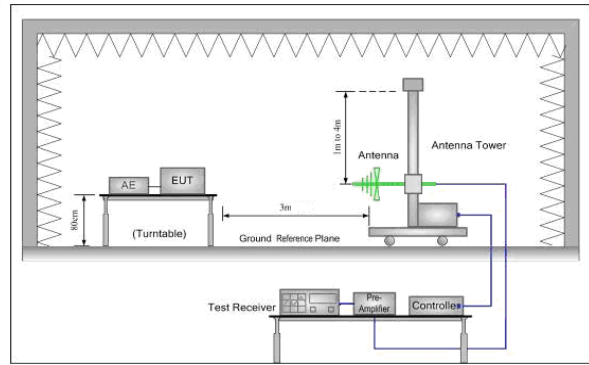


Figure 2. 30MHz to 1GHz

Test Procedure: **Below 1GHz test procedure as below:**

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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 rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.

| Frequency | Field strength (microvolt/meter) | Limit (dB μ V/m) | Remark | Measurement distance (m) |
|-------------------|----------------------------------|----------------------|------------|--------------------------|
| 0.009MHz-0.490MHz | 2400/F(kHz) | - | - | 300 |
| 0.490MHz-1.705MHz | 24000/F(kHz) | - | - | 30 |
| 1.705MHz-30MHz | 30 | - | - | 30 |
| 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 |
| 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 |
| 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 |
| 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 |
| Above 1GHz | 500 | 54.0 | Average | 3 |

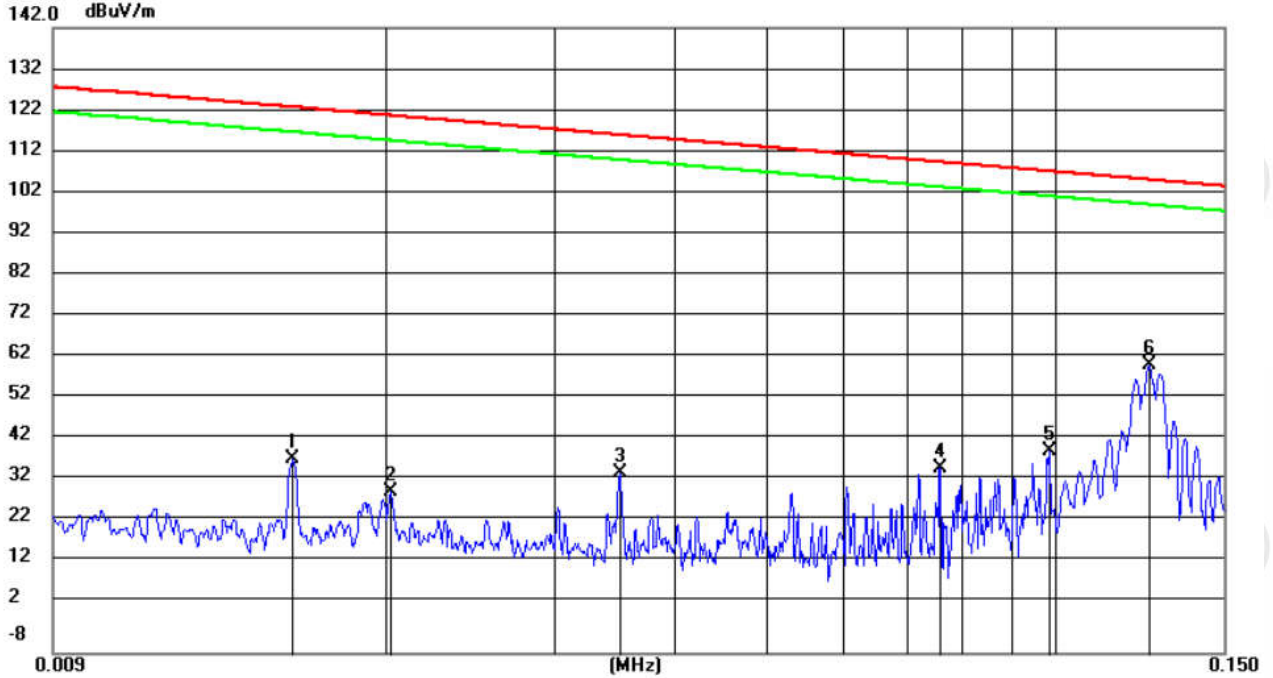
Limit:
(Spurious Emissions)

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Mode: Transmitting mode

Test Results: Pass

9kHz~150kHz:



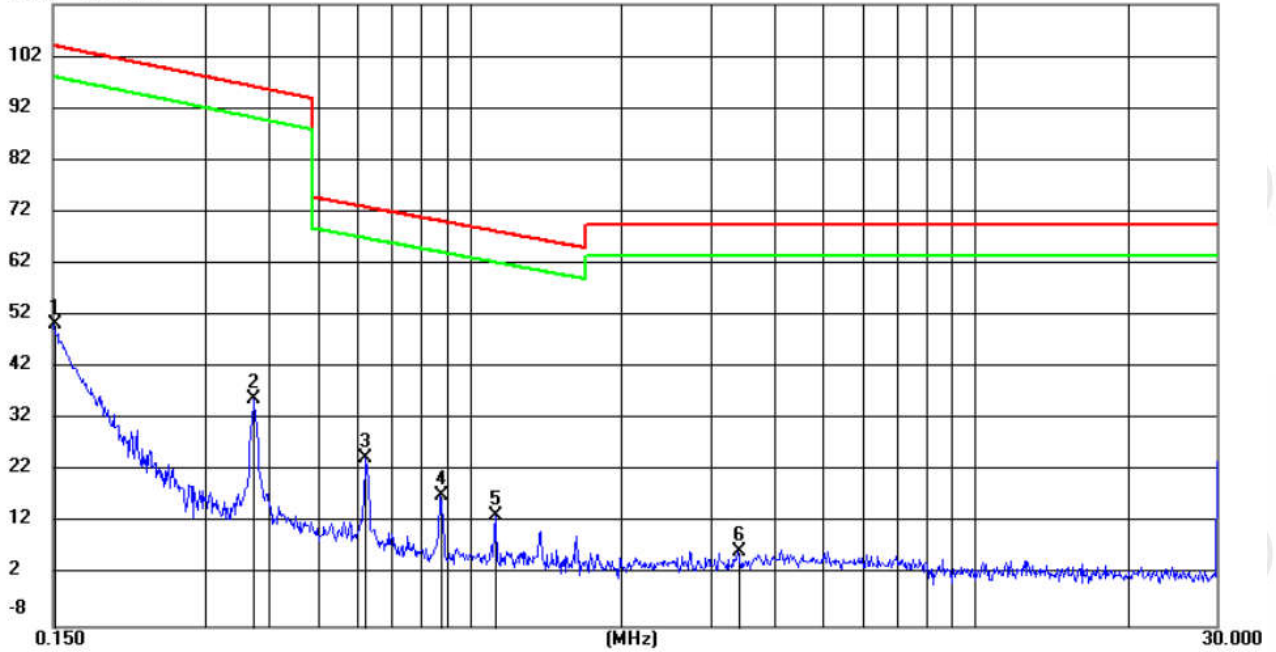
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Antenna Height cm | Table Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|-------------------------|-----------------|---------|
| 1 | | 0.0160 | 17.37 | 21.17 | 38.54 | 122.96 | -84.42 | peak | | | |
| 2 | | 0.0202 | 9.99 | 20.93 | 30.92 | 120.99 | -90.07 | peak | | | |
| 3 | | 0.0351 | 14.76 | 20.37 | 35.13 | 116.33 | -81.20 | peak | | | |
| 4 | | 0.0759 | 15.93 | 20.35 | 36.28 | 109.83 | -73.55 | peak | | | |
| 5 | | 0.0986 | 20.19 | 20.40 | 40.59 | 107.62 | -67.03 | peak | | | |
| 6 | * | 0.1253 | 40.86 | 20.37 | 61.23 | 105.60 | -44.37 | peak | | | |

Remark:

- 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.
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading - Correct Factor
Correct Factor = Pre-amplifier Factor - Antenna Factor - Cable Factor
- The highest frequency is 125kHz of the EUT, so upper frequency of measurement range is 30MHz.

150kHz~30MHz:

112.0 dBuV/m



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Margin dB | Antenna Height cm | Table Degree degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|-------------------------|---------------------------|---------|
| 1 | | 0.1508 | 30.16 | 20.33 | 50.49 | 104.03 | -53.54 | | | peak |
| 2 | | 0.3751 | 15.45 | 20.40 | 35.85 | 96.12 | -60.27 | | | peak |
| 3 | * | 0.6238 | 3.88 | 20.55 | 24.43 | 72.90 | -48.47 | | | peak |
| 4 | | 0.8757 | -3.19 | 20.45 | 17.26 | 70.22 | -52.96 | | | peak |
| 5 | | 1.1233 | -6.99 | 20.41 | 13.42 | 68.26 | -54.84 | | | peak |
| 6 | | 3.3994 | -14.13 | 20.54 | 6.41 | 69.54 | -63.13 | | | peak |

Remark:

1.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.

2.The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor- Antenna Factor-Cable Factor

3.The highest frequency is 125kHz of the EUT, so upper frequency of measurement range is 30MHz.

6.4 20dB Bandwidth

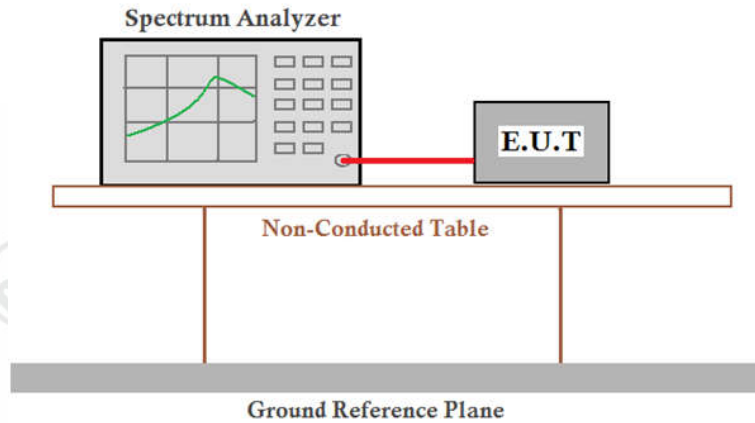
Test Requirement: 47 CFR Part 15C Section 2.1049

Test Method: ANSI C63.10 2013

Limit:

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Test Setup:



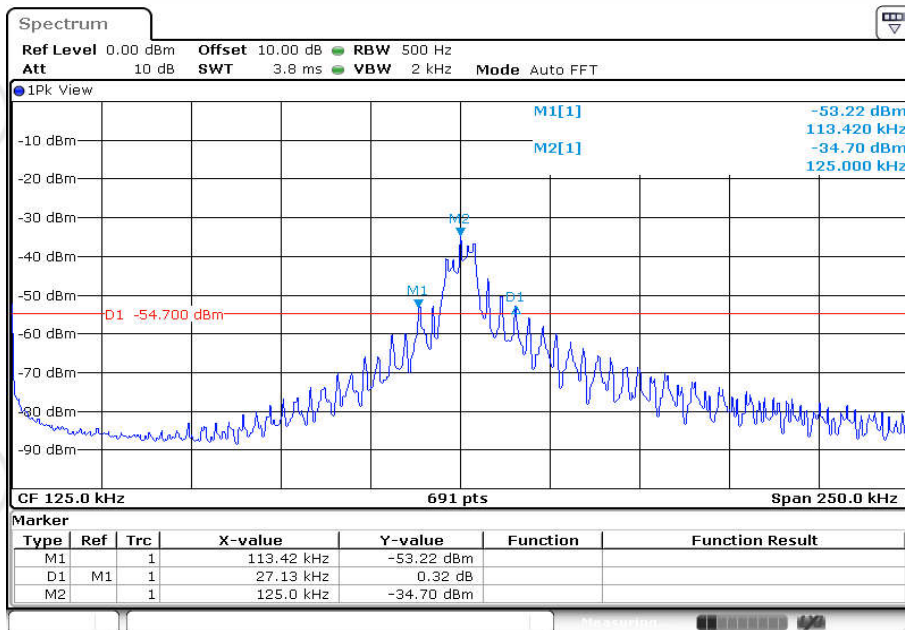
Test Mode: Transmitting mode

Test Results: Pass

Measurement Data

| 20dB bandwidth (kHz) | Results |
|----------------------|---------|
| 27.13 | Pass |

Test plot as follows:



Date: 23 OCT 2021 09:31:26