

FCC REPORT

Applicant: SHANGHAI BAOLONG AUTOMOTIVE CORPORATION

Address of Applicant: 5500, Shenzhuan Rd., Songjiang District, Shanghai 201619, China

Manufacturer/Factory: SHANGHAI BAOLONG AUTOMOTIVE CORPORATION

Address of Manufacturer/Factory: 5500, Shenzhuan Rd., Songjiang District, Shanghai 201619, China

Equipment Under Test (EUT)

Product Name: TPMS-sensor

Model No.: TPM-D pro-N

FCC ID: Z9F-TPMDPRON

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.231

Date of sample receipt: October 09, 2018

Date of Test: October 10-29, 2018

Date of report issued: October 29, 2018

Test Result : PASS *

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

Authorized Signature:

Robinson Lo

Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

| Version No. | Date | Description |
|-------------|------------------|-------------|
| 01 | October 29, 2018 | Original |
| | | |
| | | |
| | | |
| | | |

Prepared By:

Bill. Yuan

Date:

October 29, 2018

Project Engineer

Check By:

Robinson

Date:

October 29, 2018

Reviewer

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4 Test Summary

| Test Item | Section in CFR 47 | Result |
|--|-------------------|--------|
| Antenna Requirement | 15.203 | Pass |
| Conduction Emission | 15.207 | N/A |
| Field strength of the Fundamental Signal | 15.231 (e) | Pass |
| Spurious Emissions | 15.231 (e)/15.209 | Pass |
| 20dB Bandwidth | 15.231 (c) | Pass |
| Dwell Time | 15.231 (e) | Pass |

Pass: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

| Test Item | Frequency Range | Measurement Uncertainty | Notes |
|---|-----------------|-------------------------|-------|
| Radiated Emission | 9kHz ~ 30MHz | $\pm 4.54\text{dB}$ | (1) |
| Radiated Emission | 30MHz ~ 1000MHz | $\pm 5.34\text{dB}$ | (1) |
| Radiated Emission | 1GHz ~ 26.5GHz | $\pm 5.34\text{dB}$ | (1) |
| AC Power Line Conducted Emission | 0.15MHz ~ 30MHz | $\pm 3.44\text{dB}$ | (1) |
| Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%. | | | |

5 General Information

5.1 General Description of EUT

| | |
|------------------------|-------------------------------|
| Product Name: | TPMS-sensor |
| Model No.: | TPM-D pro-N |
| Serial No.: | 5F01025E |
| Test sample(s) ID: | GTS201810000012-1 |
| Sample(s) Status: | Engineer sample |
| Hardware Version: | 12006856-PB-V03 |
| Software Version: | 1.1 |
| Operation Frequency: | 433.92MHz |
| Modulation technology: | FSK |
| Antenna Type: | PCB Antenna |
| Antenna gain: | -5.0dBi(declare by applicant) |
| Power supply: | Battery :DC 3.0V |

5.2 Test mode

| | |
|-------------------|------------------------------------|
| Transmitting mode | Keep the EUT in transmitting mode. |
|-------------------|------------------------------------|

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which only the worst case was shown in this test report and defined as follows:

| 433.92MHz | Axis | X | Y | Z |
|-----------|------------------------|-------|-------|-------|
| | Field Strength(dBuV/m) | 79.55 | 80.87 | 78.33 |

5.3 Description of Support Units

| Manufacturer | Description | Model | Serial Number |
|---|--|-------|--------------------|
| SHANGHAI BAOLONG AUTOMOTIVE CORPORATION | Tire pressure monitoring sensor activation tool | SGMW | GJ006-171221-00034 |

5.4 Test Facility

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

- **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383, January 08, 2018.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.
No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone,
Xixiang Road, Baoan District, Shenzhen, Guangdong, China
Tel: 0755-27798480
Fax: 0755-27798960

5.6 Other Information Requested by the Customer

None.

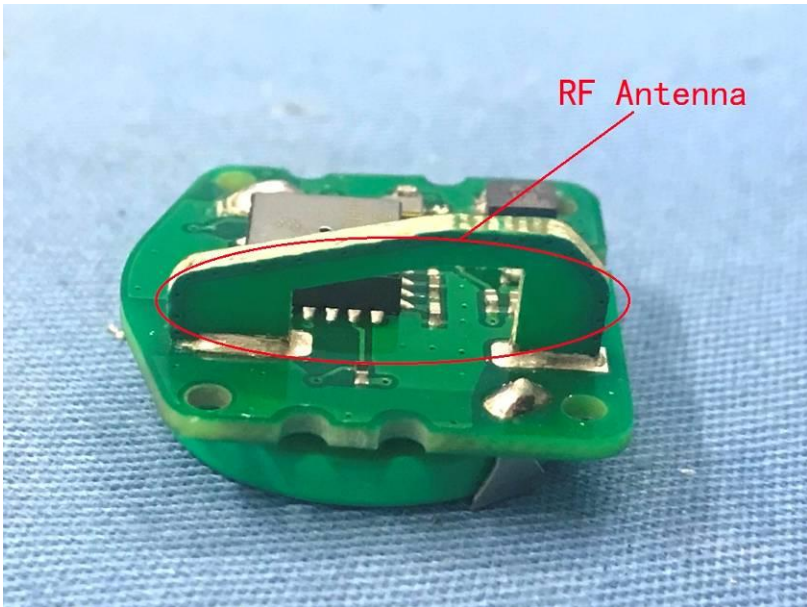
6 Test Instruments list

| Radiated Emission: | | | | | | |
|--------------------|-------------------------------------|--------------------------------|-----------------------------|---------------|------------------------|----------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | 3m Semi- Anechoic Chamber | ZhongYu Electron | 9.2(L)*6.2(W)* 6.4(H) | GTS250 | July. 03 2015 | July. 02 2020 |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A |
| 3 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | June. 27 2018 | June. 26 2019 |
| 4 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | June. 27 2018 | June. 26 2019 |
| 5 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | 9120D-829 | GTS208 | June. 27 2018 | June. 26 2019 |
| 6 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | June. 27 2018 | June. 26 2019 |
| 7 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 8 | Coaxial Cable | GTS | N/A | GTS213 | June. 27 2018 | June. 26 2019 |
| 9 | Coaxial Cable | GTS | N/A | GTS211 | June. 27 2018 | June. 26 2019 |
| 10 | Coaxial cable | GTS | N/A | GTS210 | June. 27 2018 | June. 26 2019 |
| 11 | Coaxial Cable | GTS | N/A | GTS212 | June. 27 2018 | June. 26 2019 |
| 12 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | June. 27 2018 | June. 26 2019 |
| 13 | Amplifier(2GHz-20GHz) | HP | 8349B | GTS206 | June. 27 2018 | June. 26 2019 |
| 14 | Amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | June. 27 2018 | June. 26 2019 |
| 15 | Band filter | Amindeon | 82346 | GTS219 | June. 27 2018 | June. 26 2019 |
| 16 | Power Meter | Anritsu | ML2495A | GTS540 | June. 27 2018 | June. 26 2019 |
| 17 | Power Sensor | Anritsu | MA2411B | GTS541 | June. 27 2018 | June. 26 2019 |
| 18 | Wideband Radio Communication Tester | Rohde & Schwarz | CMW500 | GTS588 | June. 27 2018 | June. 26 2019 |
| 19 | Splitter | Agilent | 11636B | GTS237 | June. 27 2018 | June. 26 2019 |
| 20 | Loop Antenna | ZHINAN | ZN30900A | GTS534 | June. 27 2018 | June. 26 2019 |
| 21 | Spectrum Analyzer | Agilent | E4440A | GTS533 | June. 27 2018 | June. 26 2019 |

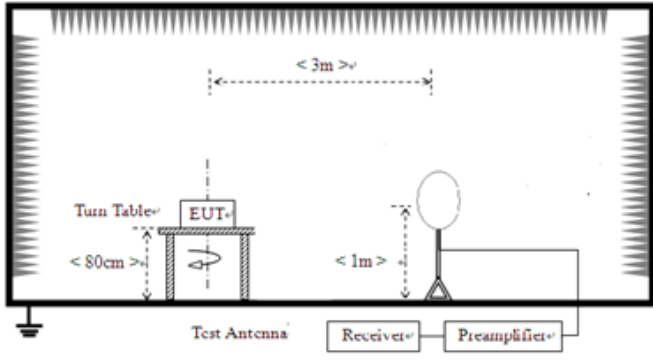
| General used equipment: | | | | | | |
|-------------------------|----------------|--------------|-----------|---------------|------------------------|----------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | Barometer | ChangChun | DYM3 | GTS257 | June 27 2018 | June 26 2019 |

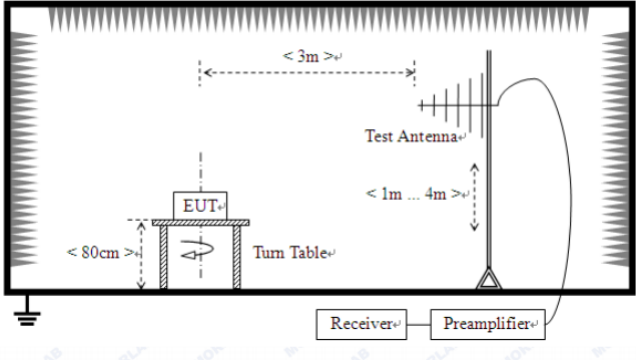
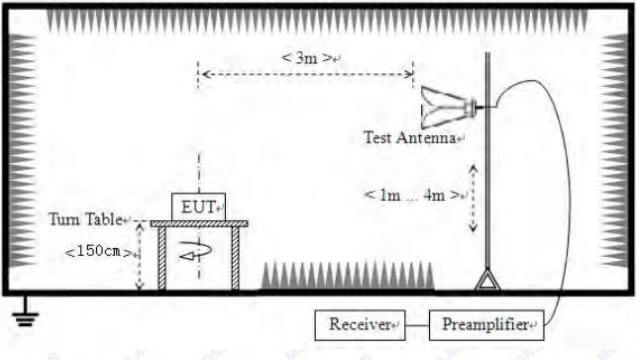
7 Test results and Measurement Data

7.1 Antenna Requirement

| | |
|--|-----------------------------|
| Standard requirement: | FCC Part15 C 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: | |
| <p><i>The antenna is PCB antenna, the best case gain of the antenna is -5.0dBi</i></p>  | |

7.2 Radiated Emission Method

| | | | | | |
|---|--|---|--------|---|------------|
| Test Requirement: | FCC Part15 C Section 15.231 (e)& Section 15.209 | | | | |
| Test Method: | ANSI C63.10:2013 | | | | |
| Test Frequency Range: | 9kHz to 5000MHz | | | | |
| Test site: | Measurement Distance: 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value |
| | 9KHz-150KHz | Quasi-peak | 200Hz | 600Hz | Quasi-peak |
| | 150KHz-30MHz | Quasi-peak | 9KHz | 30KHz | Quasi-peak |
| | 30MHz-1GHz | Quasi-peak | 100KHz | 300KHz | Quasi-peak |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | | Peak | 1MHz | 10Hz | Average |
| Limit: (Field strength of the fundamental signal) | Frequency | Limit (dBuV/m @3m) | | Remark | |
| | 433.92MHz | 72.87 | | Average Value | |
| | | 92.87 | | Peak Value | |
| Limit: (Spurious Emissions) | Fundamental Frequency (MHz) | Field Strength of fundamental (microvolts/meter) | | Field Strength of Unwanted Emissions (microvolts/meter) | |
| | 40.66 - 40.70 | 1,000 | | 100 | |
| | 70 - 130 | 500 | | 50 | |
| | 130 - 174 | 500 to 1,500 ** | | 50 to 1,50 ** | |
| | 174 - 260 | 1,500 | | 1,50 | |
| | 260 - 470 | 1,500 to 5,000 ** | | 1,50 to 5,00 ** | |
| | Above 470 | 5,000 | | 5,00 | |
| | FREQUENCY (MHz) | Class B (dBuV/m) (at 3M) | | | |
| | | PEAK | | AVERAGE | |
| | Above 1000 | 74 | | 54 | |
| | Or The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level whichever limit permits a higher field strength. | | | | |
| Test setup: | Below 30MHz | | | | |
| |  | | | | |
| Test setup: | Below 1GHz | | | | |
| | | | | | |

| | |
|--------------------------|--|
| |  <p>Above 1GHz</p>  |
| <p>Test Procedure:</p> | <ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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. |
| <p>Test Instruments:</p> | <p>Refer to section 6.0 for details</p> |
| <p>Test mode:</p> | <p>Refer to section 5.2 for details</p> |
| <p>Test results:</p> | <p>Pass</p> |

Measurement data:**7.2.1 Field Strength of The Fundamental Signal****Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 433.92 | 85.63 | 17.53 | 3.02 | 29.43 | 76.75 | 92.87 | -16.12 | Horizontal |
| 433.92 | 89.75 | 17.53 | 3.02 | 29.43 | 80.87 | 92.87 | -12.00 | Vertical |

Average value:

| Frequency (MHz) | Peak Value (dBuV/m) | Duty cycle factor | Average value (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|---------------------|-------------------|------------------------|---------------------|-----------------|--------------|
| 433.92 | 76.75 | -13.66 | 63.09 | 72.87 | -9.78 | Horizontal |
| 433.92 | 80.87 | -13.66 | 67.21 | 72.87 | -5.66 | Vertical |

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *Average value = Peak value + Duty cycle factor*

7.2.2 Spurious Emissions

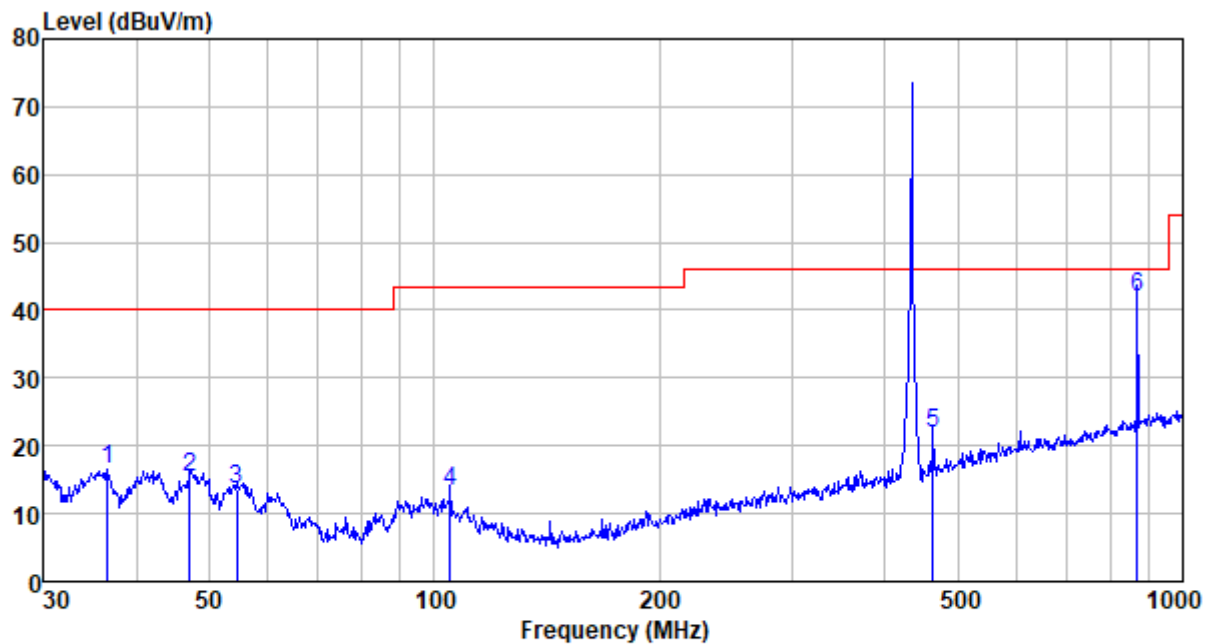
Measurement data:

9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

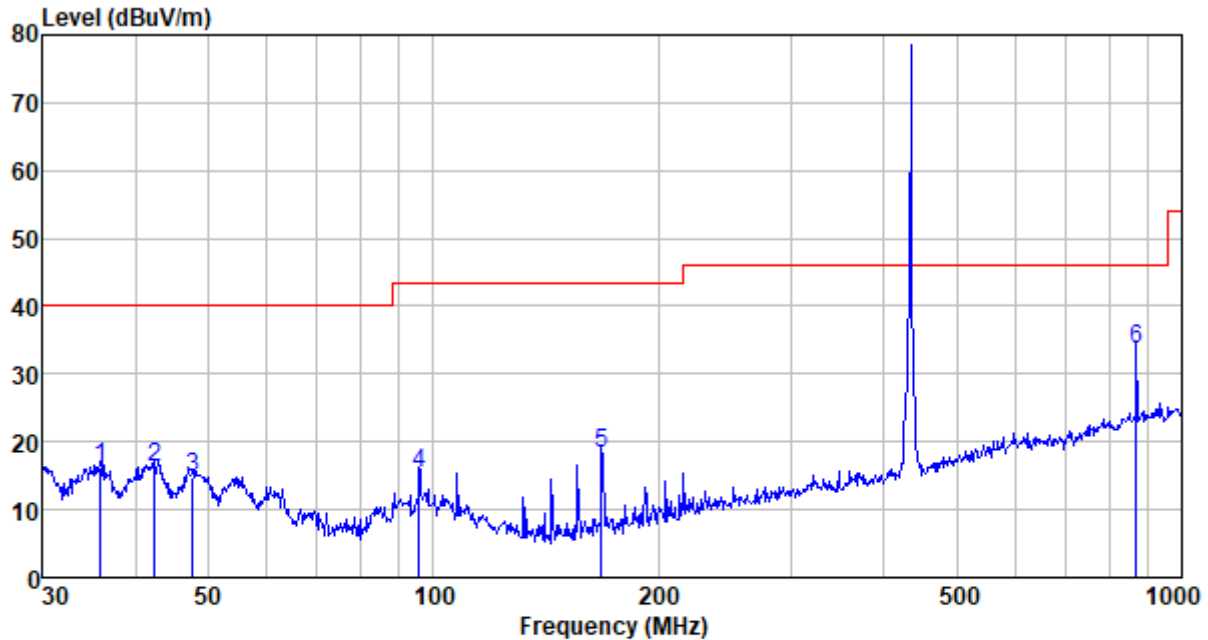
Below 1GHz:

| | | | |
|-------------------------|--------------------------|----------------------|-------------------|
| Mode: | Transmitting mode | Test by: | Bill |
| Temp./Hum.(%RH): | 26°C/56%RH | Polarization: | Horizontal |



| Freq MHz | Reading level dBuV | Antenna factor dB/m | Cable loss dB | Preamp factor dB | level dBuV | Limit level dBuV/m | Over limit dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|---------------|--------------------------|---------------------|--------|
| 36.637 | 39.86 | 11.61 | 0.63 | 35.46 | 16.64 | 40.00 | -23.36 | QP |
| 47.160 | 38.42 | 12.27 | 0.74 | 36.04 | 15.39 | 40.00 | -24.61 | QP |
| 54.452 | 37.32 | 11.85 | 0.81 | 36.25 | 13.73 | 40.00 | -26.27 | QP |
| 104.903 | 37.19 | 11.62 | 1.23 | 36.76 | 13.28 | 43.50 | -30.22 | QP |
| 463.970 | 39.56 | 16.65 | 3.15 | 37.51 | 21.85 | 46.00 | -24.15 | QP |
| 869.130 | 52.91 | 22.02 | 4.74 | 37.61 | 42.06 | 46.00 | -3.94 | QP |

| | | | |
|-------------------------|--------------------------|----------------------|-----------------|
| Mode: | Transmitting mode | Test by: | Bill |
| Temp./Hum.(%RH): | 26°C/56%RH | Polarization: | Vertical |



| Freq MHz | Reading level dBuV | Antenna factor dB/m | Cable loss dB | Preamplifier factor dB | level dBuV | Limit level dBuV/m | Over limit dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------------|---------------|--------------------------|---------------------|--------|
| 35.875 | 39.51 | 11.49 | 0.62 | 35.41 | 16.21 | 40.00 | -23.79 | QP |
| 42.451 | 39.23 | 12.23 | 0.69 | 35.80 | 16.35 | 40.00 | -23.65 | QP |
| 47.659 | 37.89 | 12.28 | 0.75 | 36.07 | 14.85 | 40.00 | -25.15 | QP |
| 95.762 | 39.25 | 11.59 | 1.16 | 36.69 | 15.31 | 43.50 | -28.19 | QP |
| 167.824 | 45.39 | 8.46 | 1.67 | 37.18 | 18.34 | 43.50 | -25.16 | QP |
| 869.130 | 44.59 | 22.02 | 4.74 | 37.61 | 33.74 | 46.00 | -12.26 | QP |

Above 1G:

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 1735.68 | 54.51 | 25.05 | 4.82 | 34.00 | 50.38 | 72.87 | -22.49 | Vertical |
| 2169.60 | 41.37 | 27.74 | 5.15 | 34.27 | 39.99 | 72.87 | -32.88 | Vertical |
| 2603.52 | 40.13 | 27.82 | 5.58 | 33.78 | 39.75 | 72.87 | -33.12 | Vertical |
| 1735.68 | 52.44 | 25.05 | 4.82 | 34.00 | 48.31 | 72.87 | -24.56 | Horizontal |
| 2169.60 | 40.25 | 27.74 | 5.15 | 34.27 | 38.87 | 72.87 | -34.00 | Horizontal |
| 2603.52 | 40.77 | 27.82 | 5.58 | 33.78 | 40.39 | 72.87 | -32.48 | Horizontal |

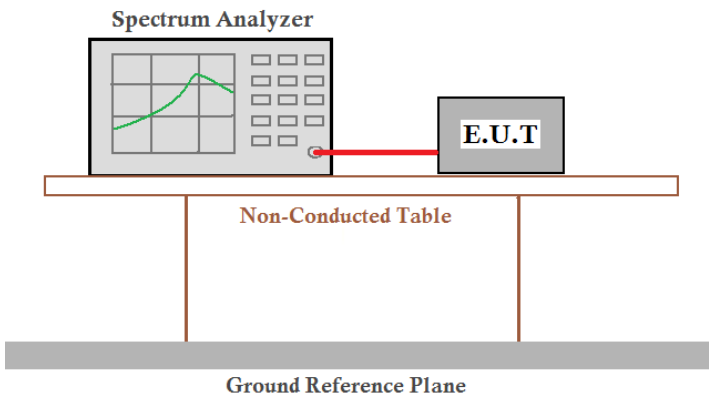
Average value:

| Frequency (MHz) | Level (dBuV/m) | Duty cycle factor | Average value (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|----------------|-------------------|------------------------|---------------------|-----------------|--------------|
| 1735.68 | 50.38 | -13.66 | 36.72 | 52.87 | -16.15 | Vertical |
| 2169.60 | 39.99 | -13.66 | 26.33 | 52.87 | -26.54 | Vertical |
| 2603.52 | 39.75 | -13.66 | 26.09 | 52.87 | -26.78 | Vertical |
| 1735.68 | 48.31 | -13.66 | 34.65 | 52.87 | -18.22 | Horizontal |
| 2169.60 | 38.87 | -13.66 | 25.21 | 52.87 | -27.66 | Horizontal |
| 2603.52 | 40.39 | -13.66 | 26.73 | 52.87 | -26.14 | Horizontal |

Remarks:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *Average value = Peak value + Duty cycle factor*

7.3 20dB Occupy Bandwidth

| | |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.231 (c) |
| 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 900MHz. 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: |  <p>The diagram illustrates the test setup. A Spectrum Analyzer, showing a frequency spectrum on its screen, is connected to an Equipment Under Test (E.U.T.) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a Non-Conducted Table. This table is supported by a Ground Reference Plane, which is represented by a thick grey bar at the bottom of the setup.</p> |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

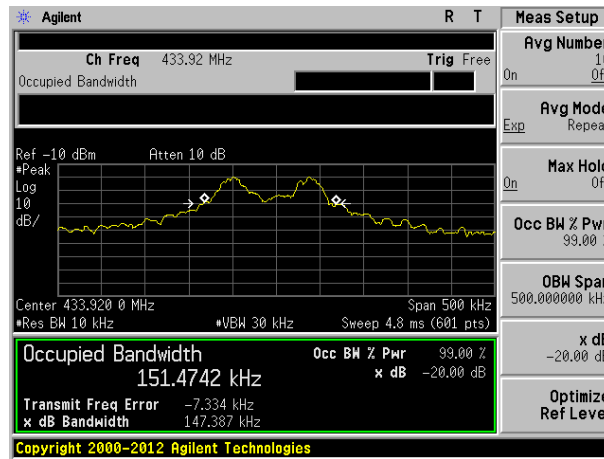
Measurement Data

| Test Frequency (MHz) | 20dB bandwidth (MHz) | Limit (MHz) | Result |
|----------------------|----------------------|-------------|--------|
| 433.92 | 0.147 | 1.085 | Pass |

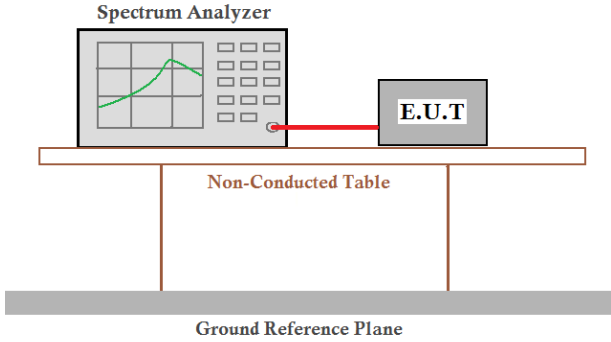
Note: Limit= Fundamental frequency \times 0.25%

433.92 \times 0.25%=1.085MHz

Test plot as follows:



7.4 Dwell Time

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.231 (e) |
| Test Method: | ANSI C63.10:2013 |
| Receiver setup: | RBW=100KHz, VBW=100KHz, span=0Hz, detector: Peak |
| Limit: | Not more than 1 seconds Silent period: at least 30 times the duration of the transmission or more than 10 seconds |
| Test setup: |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

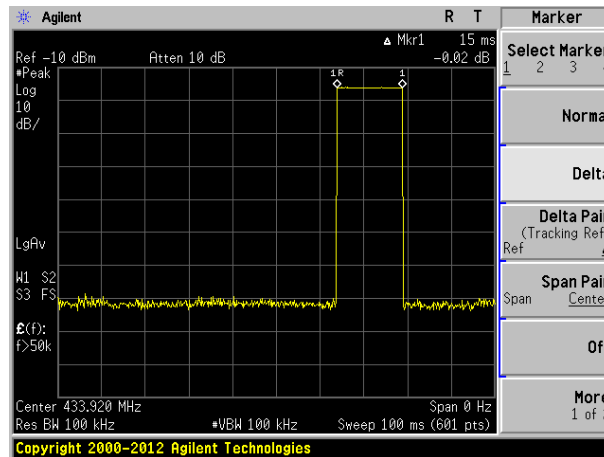
Measurement data:

| Frequency (MHz) | Duration of each TX (second) | Limit (second) | Result |
|-----------------|------------------------------|----------------|--------|
| 433.92 | 0.015 | <1.0 | Pass |

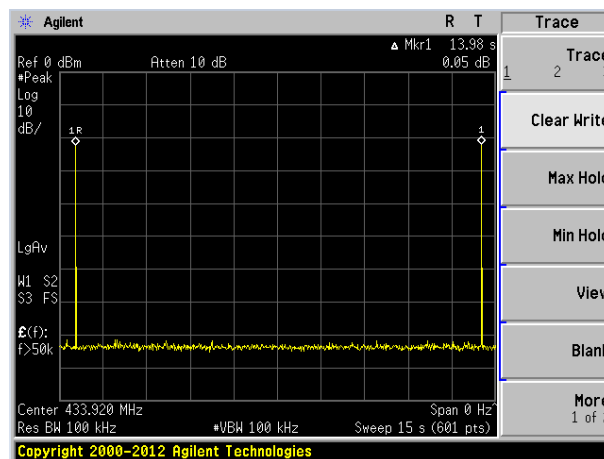
Silent period

| Frequency (MHz) | Duration of each TX (seconds): | Limit (seconds) | Result |
|-----------------|--------------------------------|--|--------|
| 433.92 | 13.98 | At least 30 times the duration of the transmission or more than 10 seconds | Pass |

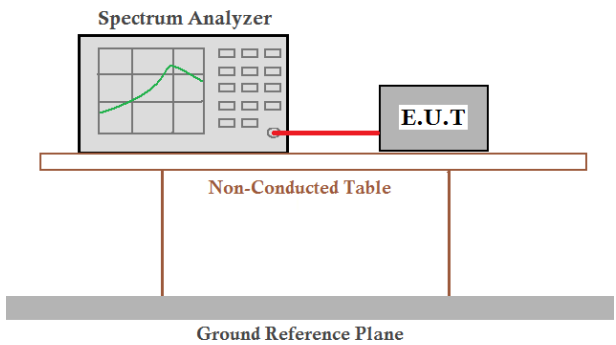
Test plot as follows:



Silent period



7.5 Duty Cycle

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.231 |
| Test Method: | ANSI C63.10:2013 |
| Receiver setup: | RBW=100KHz, VBW=100KHz, span=0Hz, detector: Peak |
| Limit: | No dedicated limit specified in the Rules. |
| Test Procedure: | <ol style="list-style-type: none"> 1. Place the EUT on the table and set it in transmitting mode. 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. 3. Set centre frequency of spectrum analyzer=operating frequency. 4. Set the spectrum analyzer as RBW=100kHz, VBW=100KHz, Span=0Hz, Adjust Sweep=100ms to obtain the “worst-case” pulse on time 5. Repeat above procedures until all frequency measured was complete. |
| Test setup: |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane, which is represented by a thick grey bar at the bottom.</p> |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

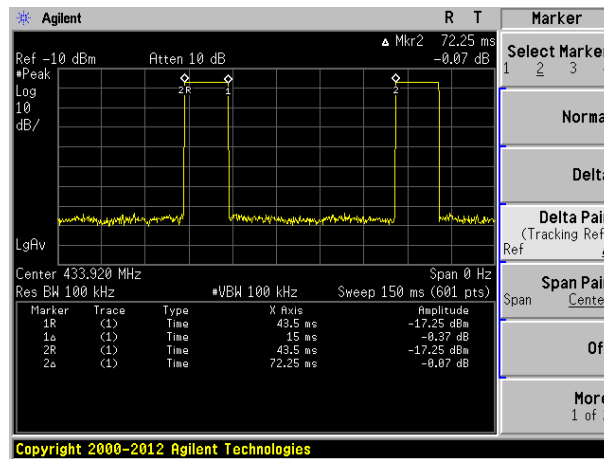
Measurement data:

Calculate Formula: $\text{Duty cycle factor} = 20 \log(\text{Duty cycle})$
 $\text{Duty cycle} = \text{on time} / 0.1 \text{ seconds or period, whichever is less}$

Test data:

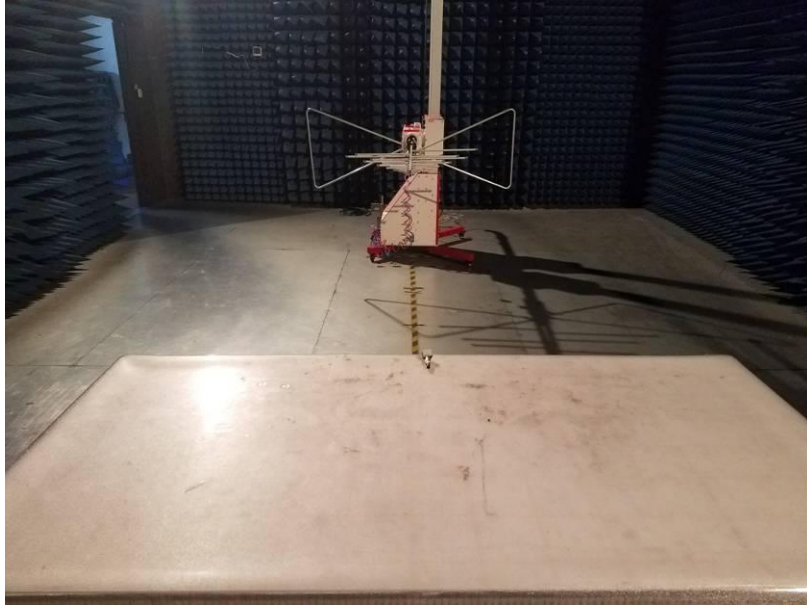
T on time = 15.00 (ms)
 T period = 72.25 (ms)
 $\text{Duty cycle} = 15.00 / 72.25 = 20.76\%$
 $\text{Duty cycle factor} = 20 \log(0.2076) = -13.66$

Test plot as follows:



8 Test Setup Photo

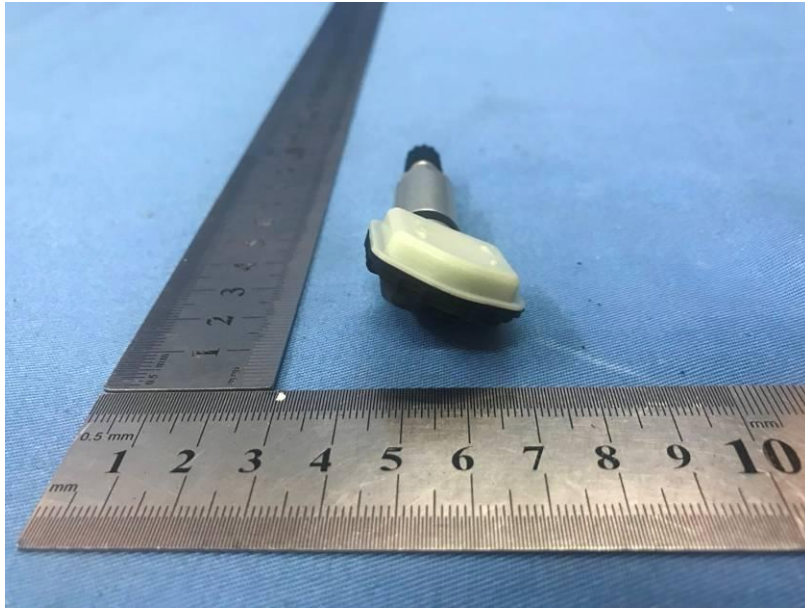
Radiated Emission



9 EUT Constructional Details

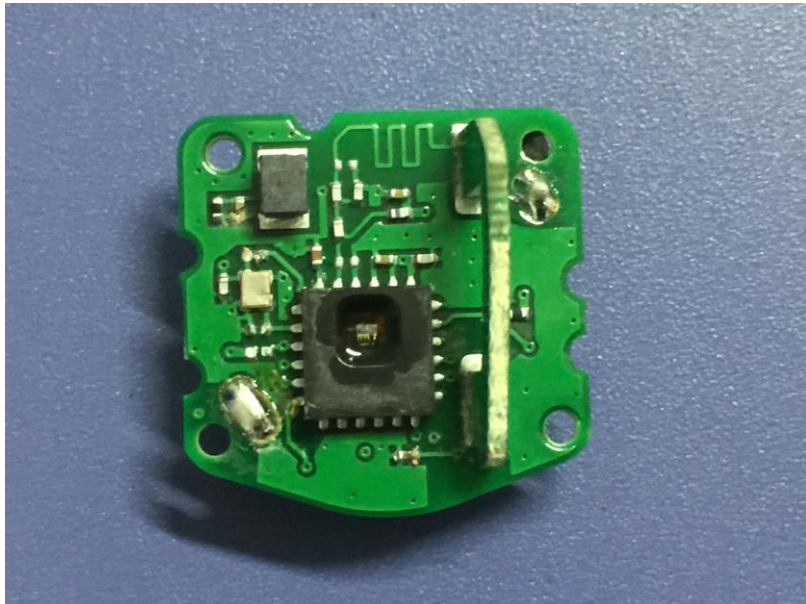
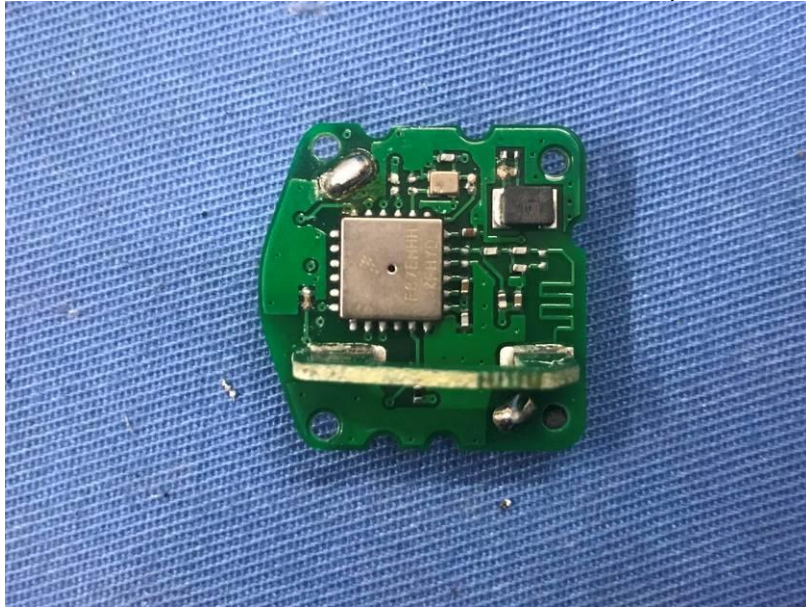


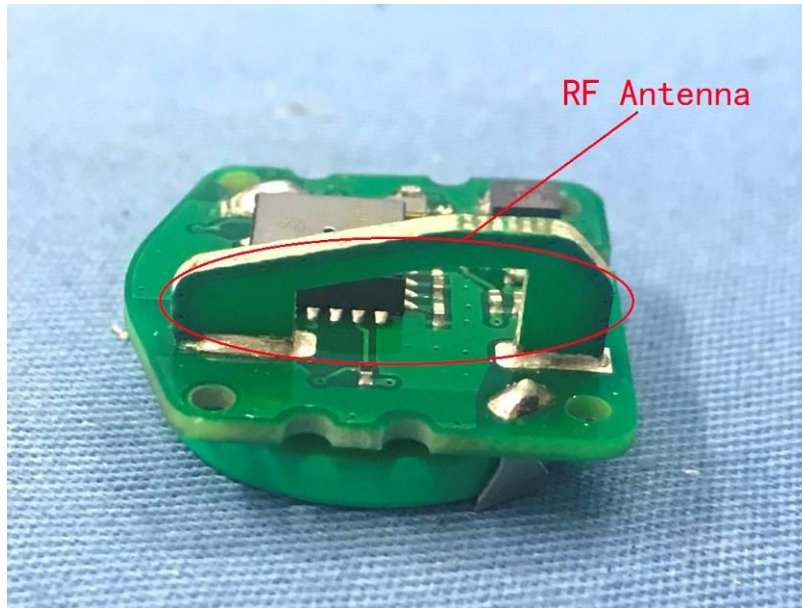












----- End -----