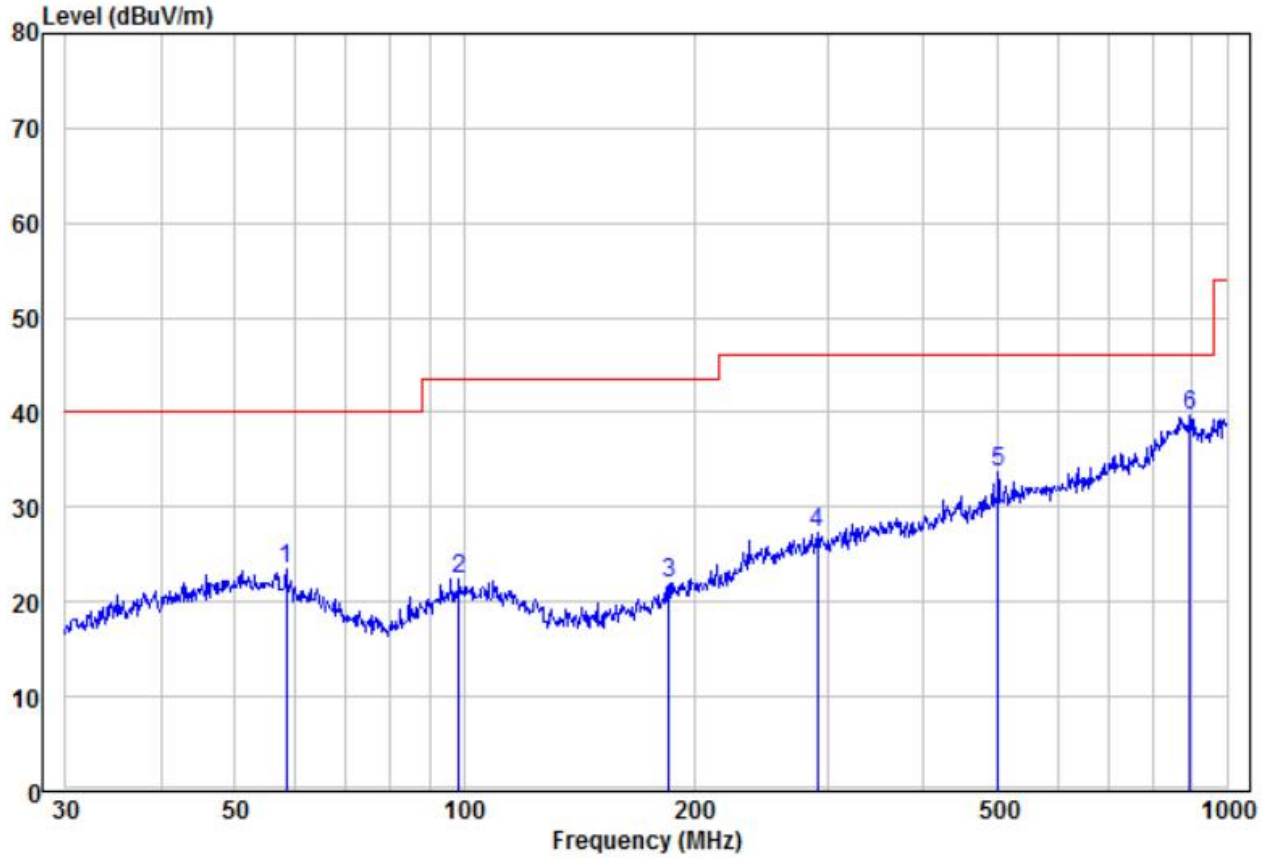
| Test mode: | Transmitting | Horizontal |
|---|---|---|




| | Freq | Read Level | Factor | Level | Limit Line | Over Limit | Remark | Pol/Phase | APos | TPos |
|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | | cm | deg |
| 1 | 58.41 | 10.28 | 13.18 | 23.46 | 40.00 | -16.54 | Peak | HORIZONTAL | 100 | 3 |
| 2 | 98.49 | 9.73 | 12.74 | 22.47 | 43.50 | -21.03 | Peak | HORIZONTAL | 100 | 201 |
| 3 | 185.79 | 9.89 | 12.17 | 22.06 | 43.50 | -21.44 | Peak | HORIZONTAL | 100 | 166 |
| 4 | 290.02 | 9.77 | 17.49 | 27.26 | 46.00 | -18.74 | Peak | HORIZONTAL | 100 | 139 |
| 5 | 501.18 | 11.76 | 21.84 | 33.60 | 46.00 | -12.40 | Peak | HORIZONTAL | 100 | 95 |
| 6 pp | 893.86 | 9.95 | 29.71 | 39.66 | 46.00 | -6.34 | Peak | HORIZONTAL | 100 | 61 |

Remark:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Factor= Antenna Factor + Cable Factor – Preamplifier Factor,
Level = Read Level + Factor,
Over Limit=Level-Limit Line.

### 5.11.2 Transmitter Emission above 1GHz

| Worse case mode: | | GFSK(DH5) | | Test channel: | | Lowest | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Over | Detector Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | | H/V | (m) | (Degree) |
| 2390 | 55.45 | -9.2 | 46.25 | 54 | -7.75 | Peak | H | 1.5 | 325 |
| 2400 | 54.36 | -9.39 | 44.97 | 54 | -9.03 | Peak | H | 1.5 | 16 |
| 4804 | 53.22 | -4.33 | 48.89 | 54 | -5.11 | Peak | H | 1.5 | 179 |
| 7206 | 48.47 | 1.01 | 49.48 | 54 | -4.52 | Peak | H | 1.5 | 273 |
| 2390 | 55.40 | -9.2 | 46.20 | 54 | -7.80 | Peak | V | 1.5 | 96 |
| 2400 | 56.92 | -9.39 | 47.53 | 54 | -6.47 | Peak | V | 1.5 | 220 |
| 4804 | 54.90 | -4.33 | 50.57 | 54 | -3.43 | Peak | V | 1.5 | 184 |
| 7206 | 51.07 | 1.01 | 52.08 | 54 | -1.92 | Peak | V | 1.5 | 201 |

| Worse case mode: | | GFSK(DH5) | | Test channel: | | Middle | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Over | Detector Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | | H/V | (m) | (Degree) |
| 4882 | 50.65 | -4.11 | 46.54 | 54 | -7.46 | peak | H | 1.5 | 340 |
| 7323 | 48.85 | 1.51 | 50.36 | 54 | -3.64 | peak | H | 1.5 | 340 |
| 4882 | 51.35 | -4.11 | 47.24 | 54 | -6.76 | peak | V | 1.5 | 155 |
| 7323 | 50.26 | 1.51 | 51.77 | 54 | -2.23 | peak | V | 1.5 | 242 |

| Worse case mode: | | GFSK(DH5) | | Test channel: | | Highest | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Over | Detector Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | | H/V | (m) | (Degree) |
| 2483.5 | 55.54 | -9.29 | 46.25 | 54 | -7.75 | Peak | H | 1.5 | 189 |
| 4960 | 51.61 | -4.04 | 47.57 | 54 | -6.43 | Peak | H | 1.5 | 297 |
| 7440 | 49.01 | 1.57 | 50.58 | 54 | -3.42 | Peak | H | 1.5 | 201 |
| 2483.5 | 54.41 | -9.29 | 45.12 | 54 | -8.88 | Peak | V | 1.5 | 99 |
| 4960 | 48.56 | -4.04 | 44.52 | 54 | -9.48 | Peak | V | 1.5 | 196 |
| 7440 | 49.66 | 1.57 | 51.23 | 54 | -2.77 | Peak | V | 1.5 | 115 |

| Worse case mode: | | π /4DQPSK (2DH5) | | Test channel: | | Lowest | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Over | Detector Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | | H/V | (m) | (Degree) |
| 2390 | 54.77 | -9.2 | 45.57 | 74 | -28.43 | Peak | H | 1.5 | 46 |
| 2400 | 54.71 | -9.39 | 45.32 | 74 | -28.68 | Peak | H | 1.5 | 144 |
| 4804 | 53.76 | -4.33 | 49.43 | 74 | -24.57 | Peak | H | 1.5 | 236 |
| 7206 | 50.10 | 1.01 | 51.11 | 74 | -22.89 | Peak | H | 1.5 | 338 |
| 2390 | 55.47 | -9.2 | 46.27 | 74 | -27.73 | Peak | V | 1.5 | 210 |
| 2400 | 54.27 | -9.39 | 44.88 | 74 | -29.12 | Peak | V | 1.5 | 216 |
| 4804 | 53.60 | -4.33 | 49.27 | 74 | -24.73 | Peak | V | 1.5 | 240 |
| 7206 | 51.22 | 1.01 | 52.23 | 74 | -21.77 | Peak | V | 1.5 | 63 |

| Worse case mode: | | π /4DQPSK (2DH5) | | Test channel: | | Middle | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Over | Detector Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | | H/V | (m) | (Degree) |
| 4882 | 52.13 | -4.11 | 48.02 | 74 | -25.98 | peak | H | 1.5 | 165 |
| 7323 | 50.96 | 1.51 | 52.47 | 74 | -21.53 | peak | H | 1.5 | 320 |
| 4882 | 52.42 | -4.11 | 48.31 | 74 | -25.69 | peak | V | 1.5 | 123 |
| 7323 | 49.24 | 1.51 | 50.75 | 74 | -23.25 | peak | V | 1.5 | 64 |

| Worse case mode: | | π /4DQPSK (2DH5) | | Test channel: | | Highest | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Over | Detector Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | | H/V | (m) | (Degree) |
| 2483.5 | 54.34 | -9.29 | 45.05 | 74 | -28.95 | Peak | H | 1.5 | 192 |
| 4960 | 52.62 | -4.04 | 48.58 | 74 | -25.42 | Peak | H | 1.5 | 213 |
| 7440 | 49.88 | 1.57 | 51.45 | 74 | -22.55 | Peak | H | 1.5 | 137 |
| 2483.5 | 53.71 | -9.29 | 44.42 | 74 | -29.58 | Peak | V | 1.5 | 63 |
| 4960 | 51.24 | -4.04 | 47.20 | 74 | -26.80 | Peak | V | 1.5 | 311 |
| 7440 | 49.61 | 1.57 | 51.18 | 74 | -22.82 | Peak | V | 1.5 | 322 |

| Worse case mode: | | 8DPSK (3DH5) | | Test channel: | | Lowest | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Over | Detector Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | | H/V | (m) | (Degree) |
| 2390 | 53.41 | -9.2 | 44.21 | 74 | -29.79 | Peak | H | 1.5 | 44 |
| 2400 | 54.99 | -9.39 | 45.60 | 74 | -28.40 | Peak | H | 1.5 | 27 |
| 4804 | 52.94 | -4.33 | 48.61 | 74 | -25.39 | Peak | H | 1.5 | 88 |
| 7206 | 51.17 | 1.01 | 52.18 | 74 | -21.82 | Peak | H | 1.5 | 169 |
| 2390 | 55.65 | -9.2 | 46.45 | 74 | -27.55 | Peak | V | 1.5 | 306 |
| 2400 | 56.40 | -9.39 | 47.01 | 74 | -26.99 | Peak | V | 1.5 | 121 |
| 4804 | 53.58 | -4.33 | 49.25 | 74 | -24.75 | Peak | V | 1.5 | 36 |
| 7206 | 50.60 | 1.01 | 51.61 | 74 | -22.39 | Peak | V | 1.5 | 209 |

| Worse case mode: | | 8DPSK (3DH5) | | Test channel: | | Middle | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Over | Detector Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | | H/V | (m) | (Degree) |
| 4882 | 52.07 | -4.11 | 47.96 | 74 | -26.04 | peak | H | 1.5 | 349 |
| 7323 | 50.43 | 1.51 | 51.94 | 74 | -22.06 | peak | H | 1.5 | 169 |
| 4882 | 51.85 | -4.11 | 47.74 | 74 | -26.26 | peak | V | 1.5 | 312 |
| 7323 | 50.12 | 1.51 | 51.63 | 74 | -22.37 | peak | V | 1.5 | 31 |

| Worse case mode: | | 8DPSK (3DH5) | | Test channel: | | Highest | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Over | Detector Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz) | (dBμV) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | | H/V | (m) | (Degree) |
| 2483.5 | 55.11 | -9.29 | 45.82 | 74 | -28.18 | Peak | H | 1.5 | 178 |
| 4960 | 50.77 | -4.04 | 46.73 | 74 | -27.27 | Peak | H | 1.5 | 72 |
| 7440 | 49.19 | 1.57 | 50.76 | 74 | -23.24 | Peak | H | 1.5 | 17 |
| 2483.5 | 55.04 | -9.29 | 45.75 | 74 | -28.25 | Peak | V | 1.5 | 173 |
| 4960 | 50.75 | -4.04 | 46.71 | 74 | -27.29 | Peak | V | 1.5 | 160 |
| 7440 | 48.89 | 1.57 | 50.46 | 74 | -23.54 | Peak | V | 1.5 | 356 |

Remark:

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

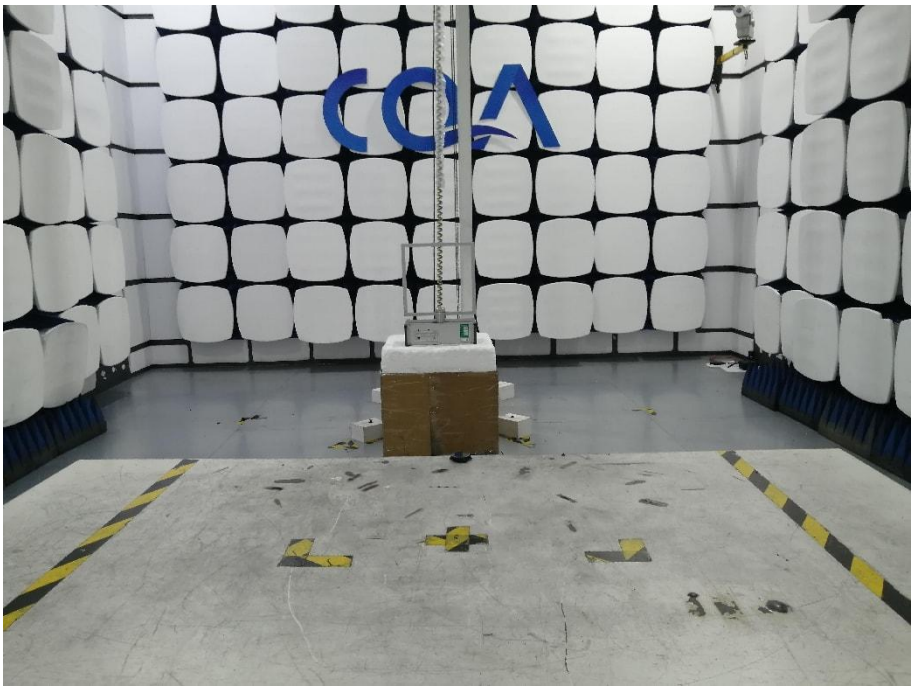
   Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. 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. So, only the peak measurements were shown in the report.

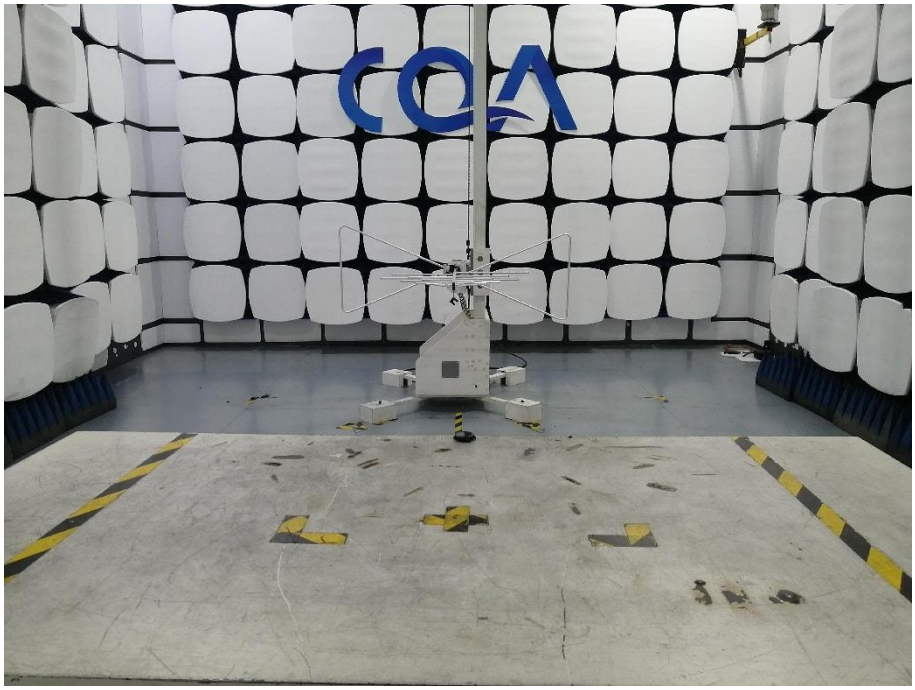
# 6 Photographs - EUT Test Setup

## 6.1 Radiated Emission

9KHz~30MHz:



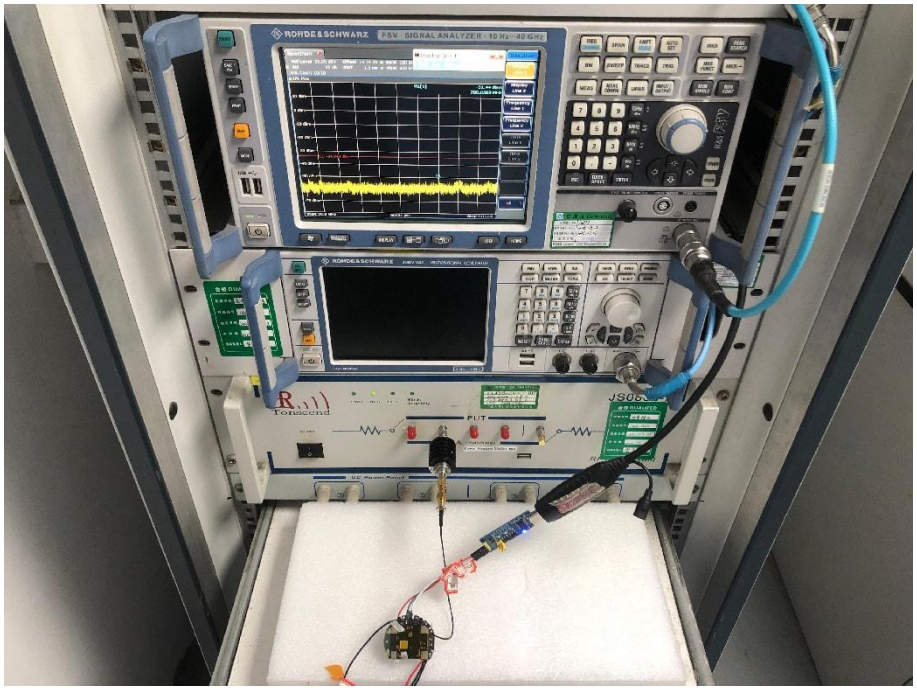
30MHz~1GHz:



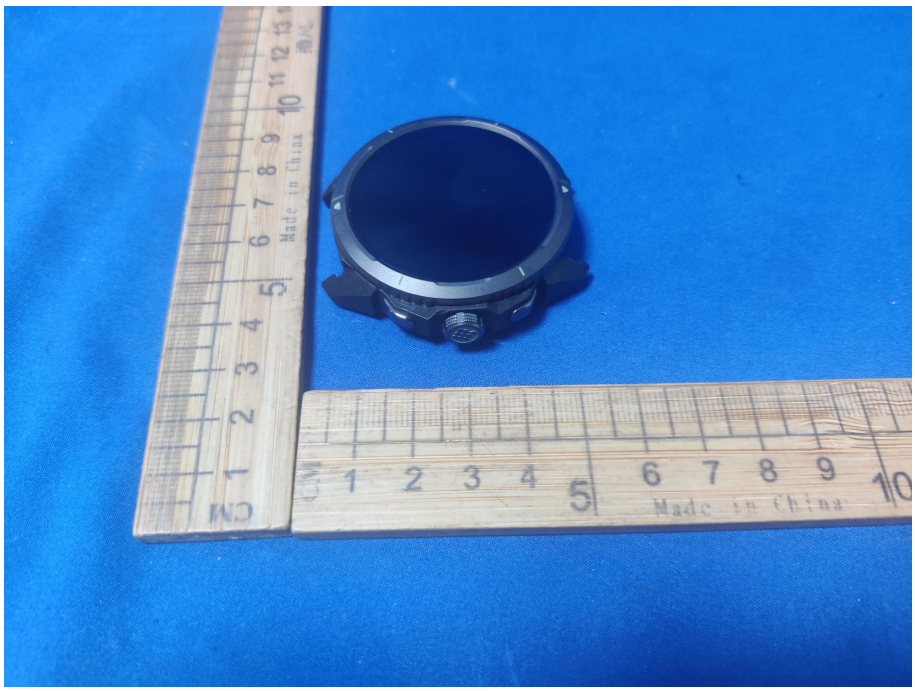
Above 1GHz:

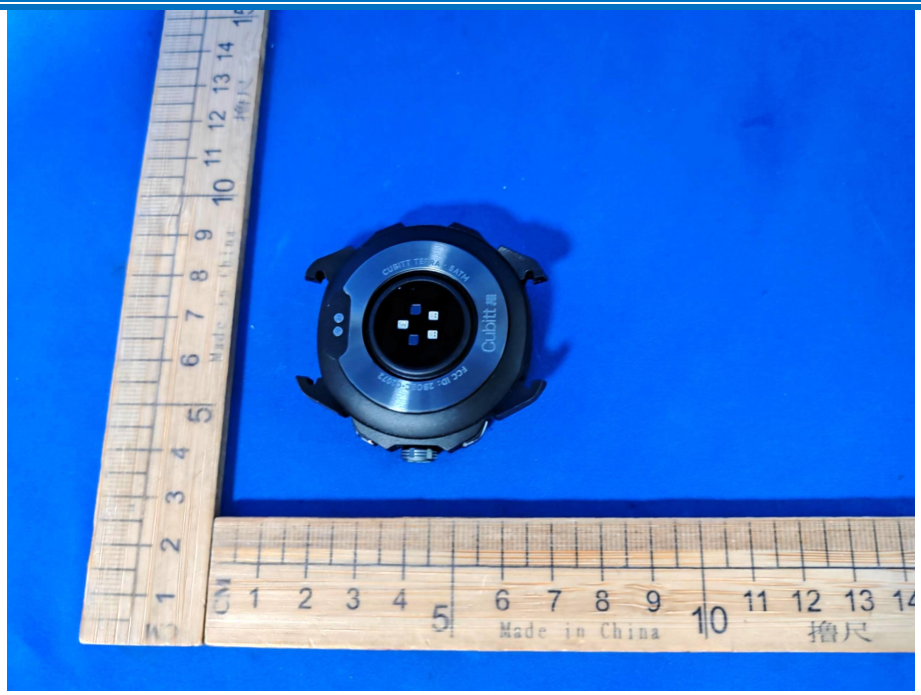
## 6.2 Conducted Emission

## 6.3 RF Conducted measurement



# 7 Photographs - EUT Constructional Details




Made in China
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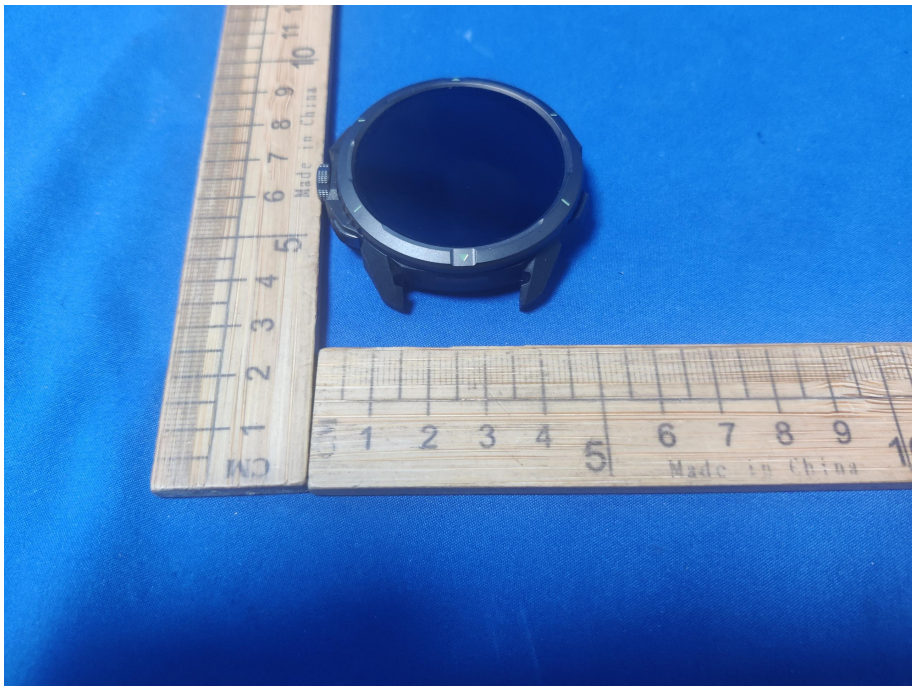
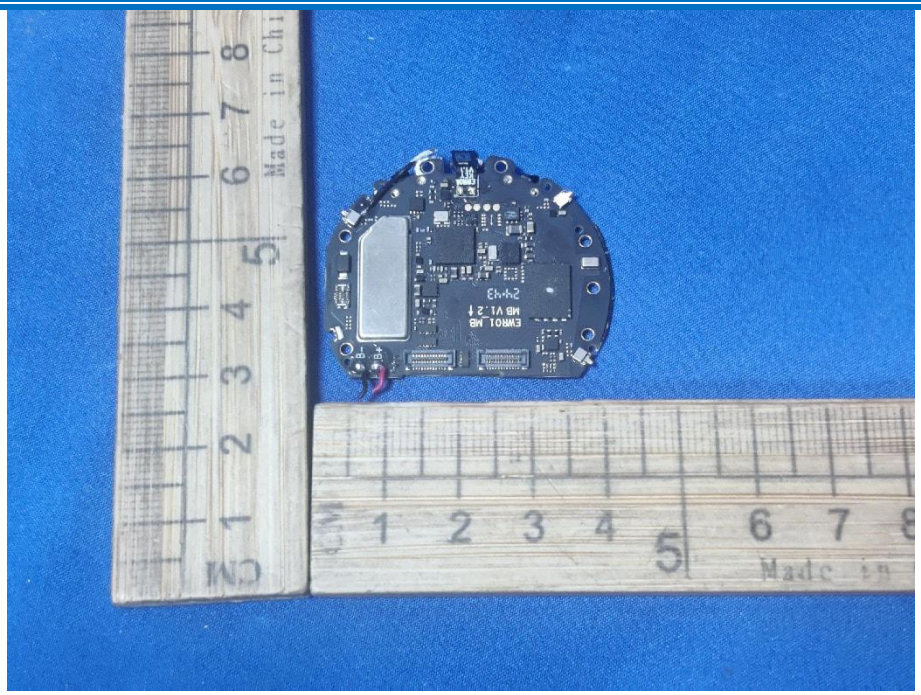
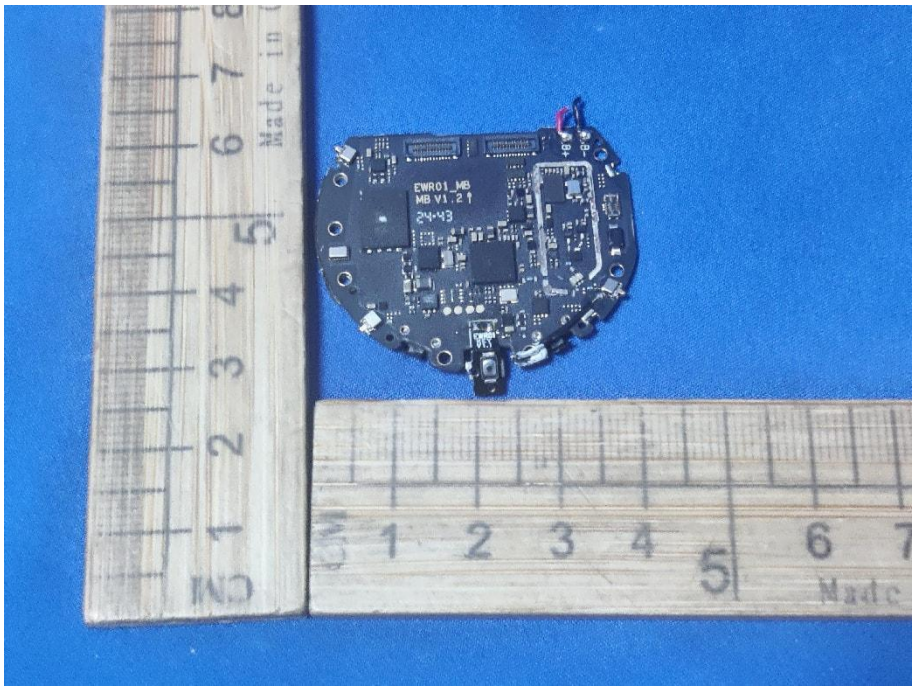
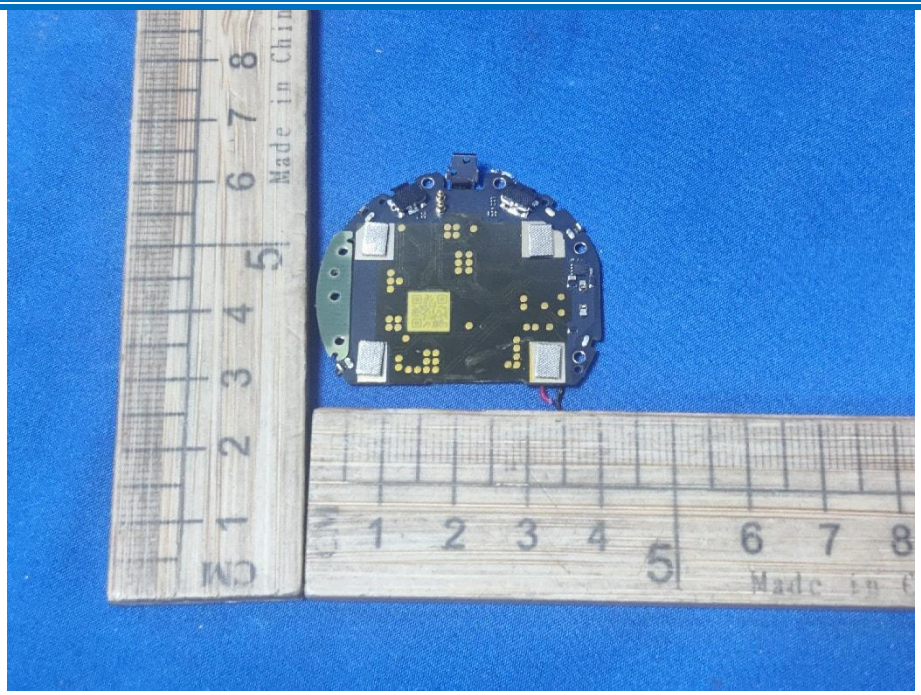
Made in China

Made in China


Made in China




EWR01_MB
MB V1.2 1
24-43



*** END OF REPORT ***