

**Applicant:** Shenzhen Anboqi Technology Co.,Ltd

**Case No. :** TH2401212-C05

**EUT:** Wifi Camera

**M/N:** ABQ-A28

**Standard:** FCC Part15 Subpart C, Section 15.247

**Test Power Supply:** NA

**Ambient Condition:** 20 °C, 36 %RH, 101.325 kPa

**Test Date:** 2024.01.23

**Test Engineer:** Blue

## Appendix A: DTS Bandwidth

### Test Result

| TestMode | Antenna | Channel | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 0.724           | 2401.632 | 2402.356 | 0.5        | PASS    |
|          |         | 2440    | 0.700           | 2439.648 | 2440.348 | 0.5        | PASS    |
|          |         | 2480    | 0.716           | 2479.628 | 2480.344 | 0.5        | PASS    |

## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



## BLE\_1M\_Ant1\_2480



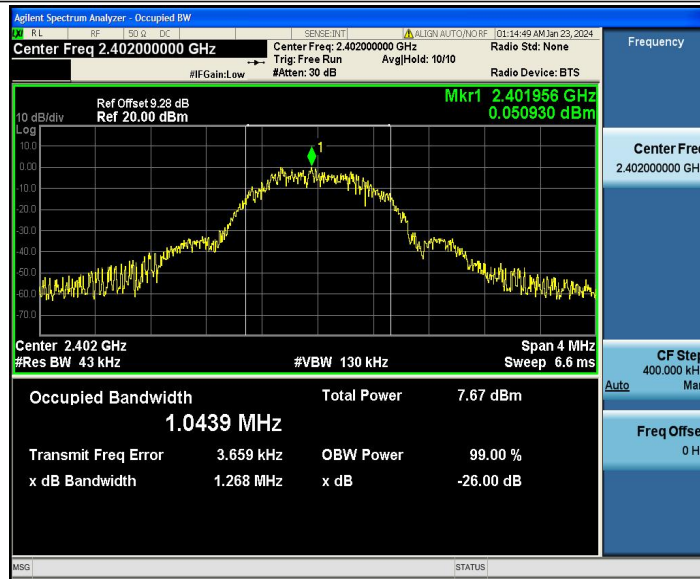
## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|-----------|-----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 1.0439    | 2401.4817 | 2402.5256 | ---        | ---     |
|          |         | 2440    | 1.0542    | 2439.4704 | 2440.5246 | ---        | ---     |
|          |         | 2480    | 1.0370    | 2479.4857 | 2480.5227 | ---        | ---     |

## Test Graphs

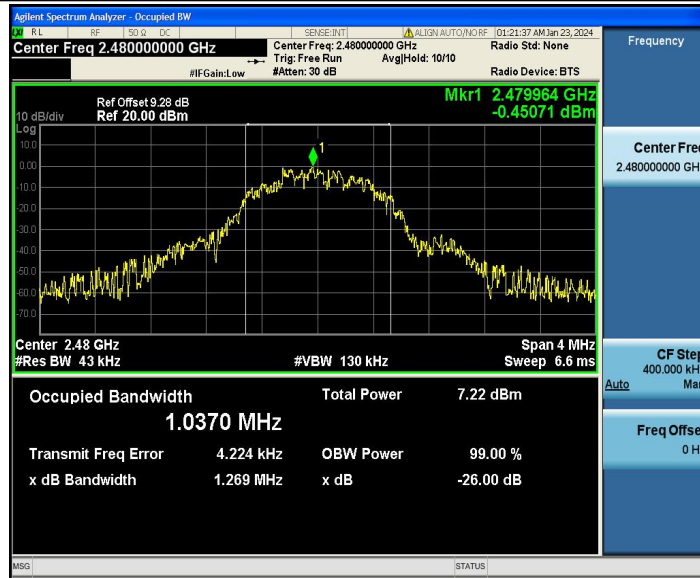
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



## BLE\_1M\_Ant1\_2480



## Appendix C: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Channel | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|---------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402    | 4.15                      | ≤30                  | PASS    |
|          |         | 2440    | 4.06                      | ≤30                  | PASS    |
|          |         | 2480    | 3.61                      | ≤30                  | PASS    |

## Test Graphs Peak

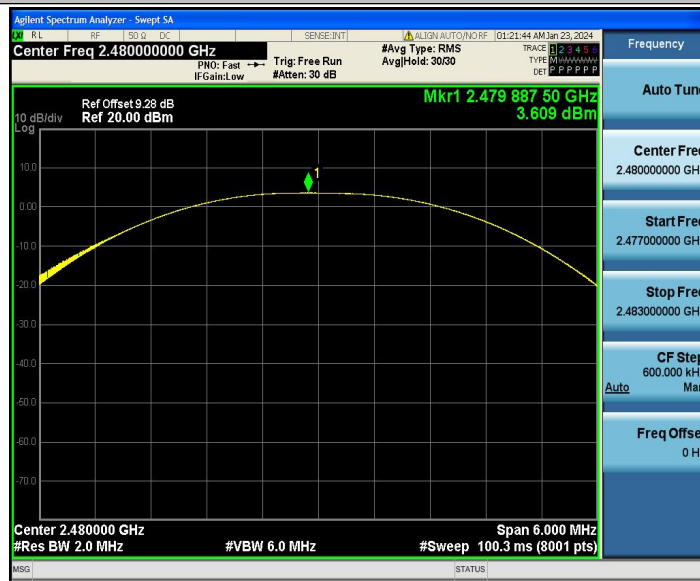
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



## BLE\_1M\_Ant1\_2480



## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402    | -11.27           | ≤8.00           | PASS    |
|          |         | 2440    | -12.24           | ≤8.00           | PASS    |
|          |         | 2480    | -11.42           | ≤8.00           | PASS    |

## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



## BLE\_1M\_Ant1\_2480



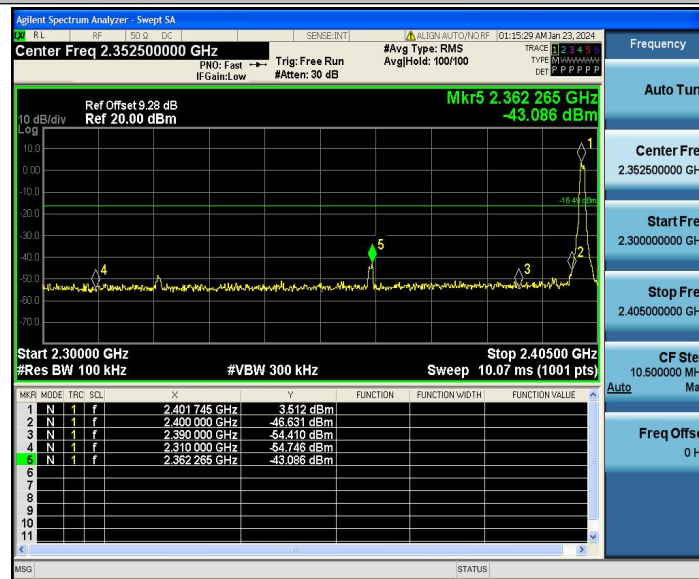
## Appendix E: Band edge measurements

### Test Result

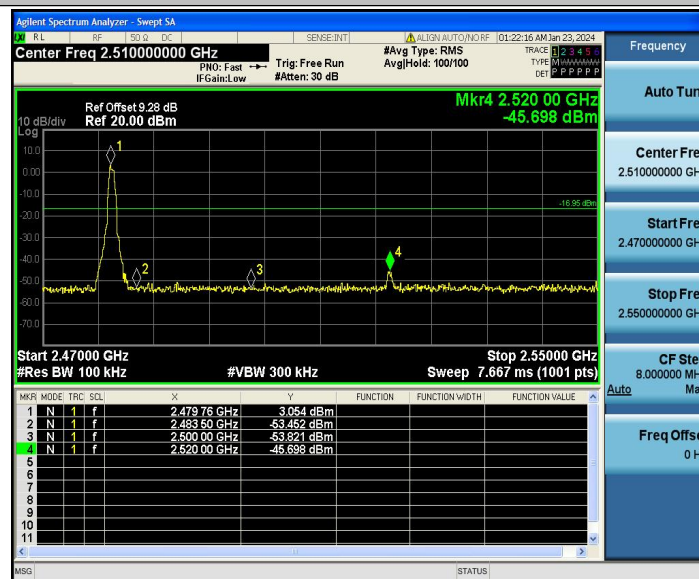
| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|----------|---------|--------|---------|---------------|-------------|---------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | 3.51          | -43.09      | $\leq -16.49$ | PASS    |
|          |         | High   | 2480    | 3.05          | -45.7       | $\leq -16.95$ | PASS    |

## Test Graphs

BLE\_1M\_Ant1\_Low\_2402



BLE\_1M\_Ant1\_High\_2480



## Appendix F: Conducted Spurious Emission

### Test Result

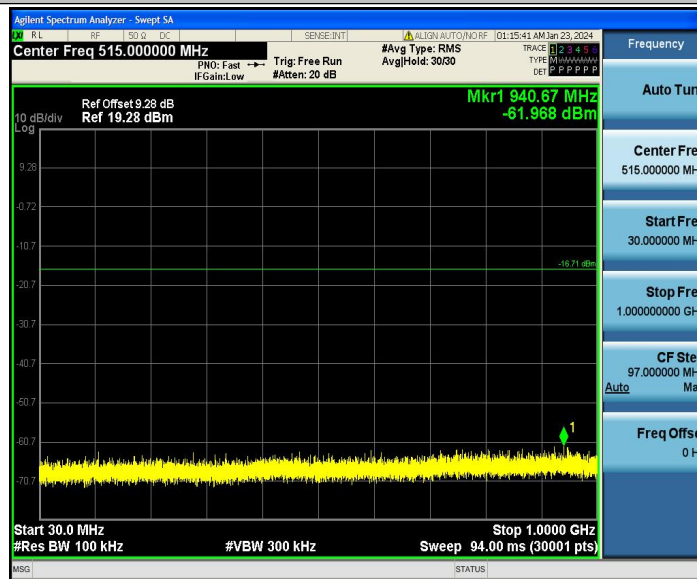
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|----------|---------|---------|--------------------|-------------------|-------------|---------------|---------|
| BLE_1M   | Ant1    | 2402    | Reference          | 3.29              | 3.29        | ---           | PASS    |
|          |         |         | 30~1000            | 3.29              | -61.97      | $\leq -16.71$ | PASS    |
|          |         |         | 1000~26500         | 3.29              | -42.06      | $\leq -16.71$ | PASS    |
|          |         | 2440    | Reference          | 2.60              | 2.60        | ---           | PASS    |
|          |         |         | 30~1000            | 2.60              | -62         | $\leq -17.4$  | PASS    |
|          |         |         | 1000~26500         | 2.60              | -44.56      | $\leq -17.4$  | PASS    |
|          |         | 2480    | Reference          | 1.84              | 1.84        | ---           | PASS    |
|          |         |         | 30~1000            | 1.84              | -62.03      | $\leq -18.16$ | PASS    |
|          |         |         | 1000~26500         | 1.84              | -46.24      | $\leq -18.16$ | PASS    |

## Test Graphs

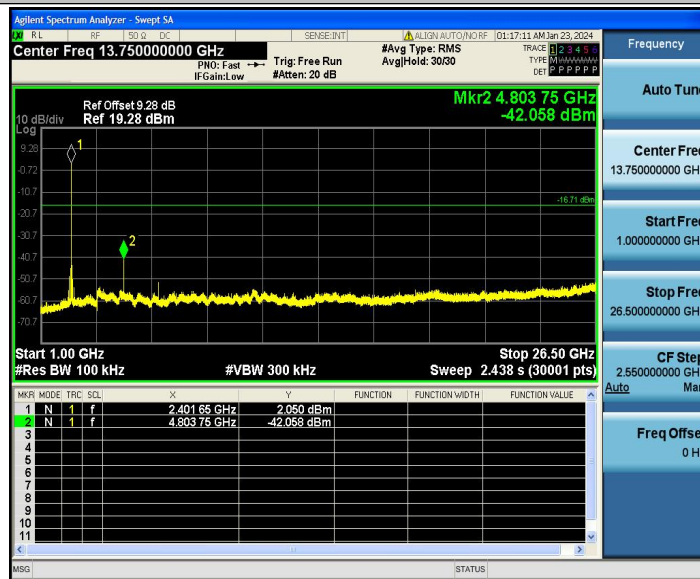
BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



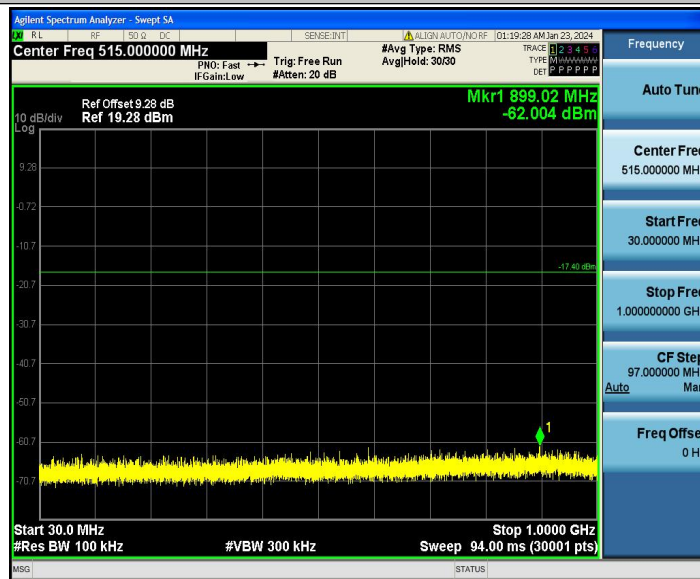
## BLE\_1M\_Ant1\_2402\_1000~26500



## BLE\_1M\_Ant1\_2440\_0~Reference



## BLE\_1M\_Ant1\_2440\_30~1000



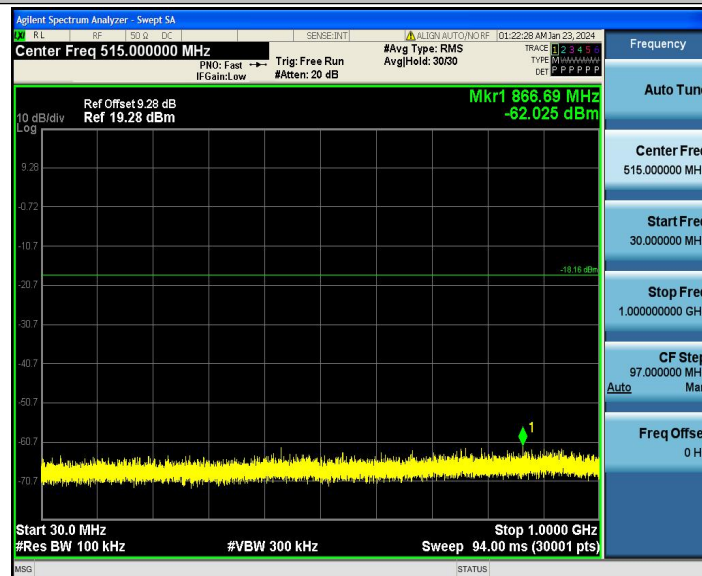
## BLE\_1M\_Ant1\_2440\_1000~26500



## BLE\_1M\_Ant1\_2480\_0~Reference



## BLE\_1M\_Ant1\_2480\_30~1000





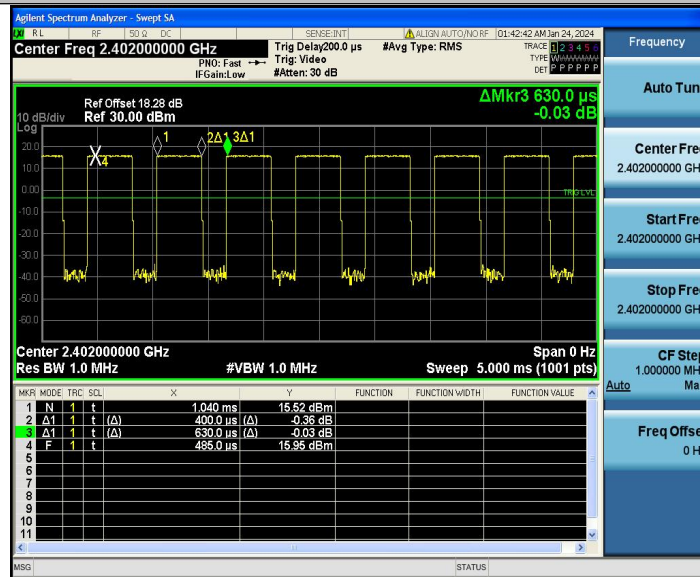
## Appendix G: Duty Cycle

### Test Result

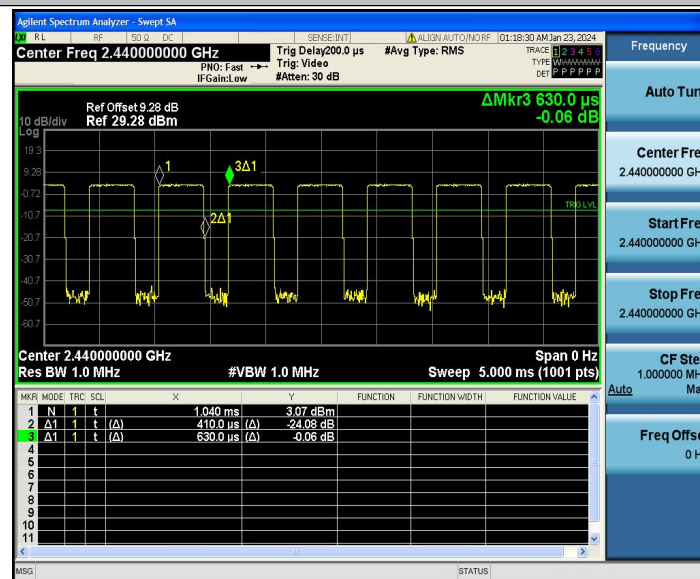
| TestMode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X      | DC<br>[%] | xFactor | Limit | Verdict |
|----------|---------|---------|-----------------|----------------|--------|-----------|---------|-------|---------|
| BLE_1M   | Ant1    | 2402    | 0.40            | 0.63           | 0.6349 | 63.49     | 1.97    | ---   | ---     |
|          |         | 2440    | 0.41            | 0.63           | 0.6508 | 65.08     | 1.87    | ---   | ---     |
|          |         | 2480    | 0.41            | 0.63           | 0.6508 | 65.08     | 1.87    | ---   | ---     |

## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



## BLE\_1M\_Ant1\_2480

