



## Appendix B

### RF Test Data for BT LE (Conducted Measurement)

Product Name: Mini pc

Test Model: ARB17M2

#### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 23.8° C    |
| Relative Humidity: | 52.1%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Paddi Chen |
| Supervised by:     | Nick Peng  |





## B.1 -6dB Bandwidth

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| 1M   | SISO    | 2402            | 1   | 0.662               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 0.704               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 0.685               | $\geq 0.5$ | Pass    |
| 2M   | SISO    | 2402            | 1   | 1.181               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 1.165               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 1.172               | $\geq 0.5$ | Pass    |



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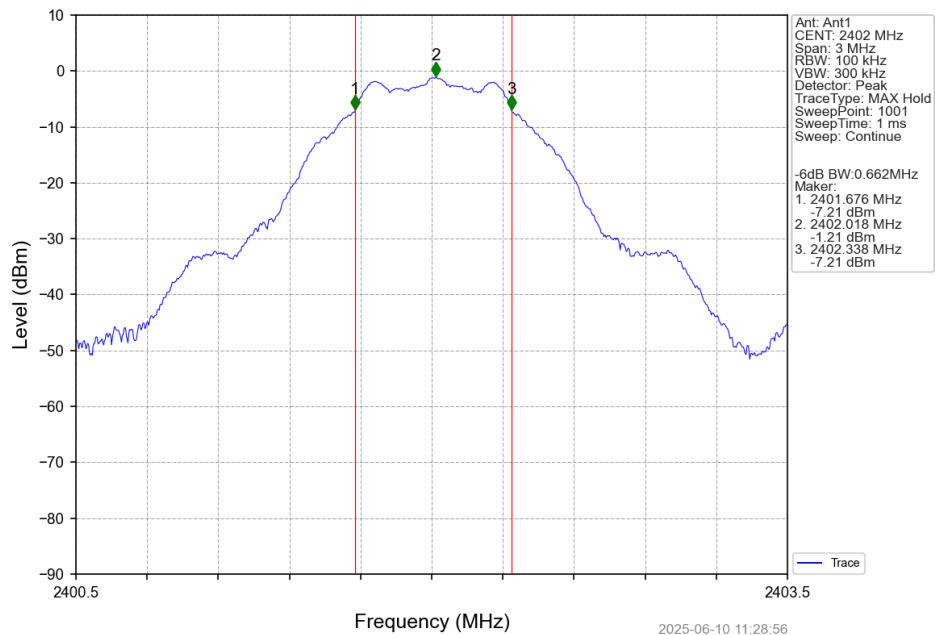
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

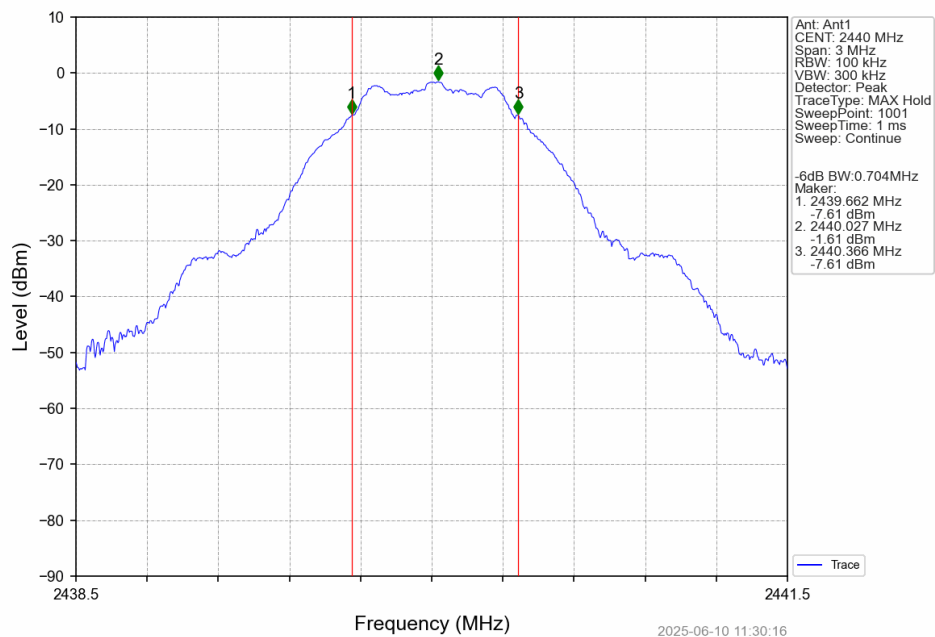
Scan code to check authenticity



## 1M LCH 2402MHz Ant1 NTV



## 1M MCH 2440MHz Ant1 NTV



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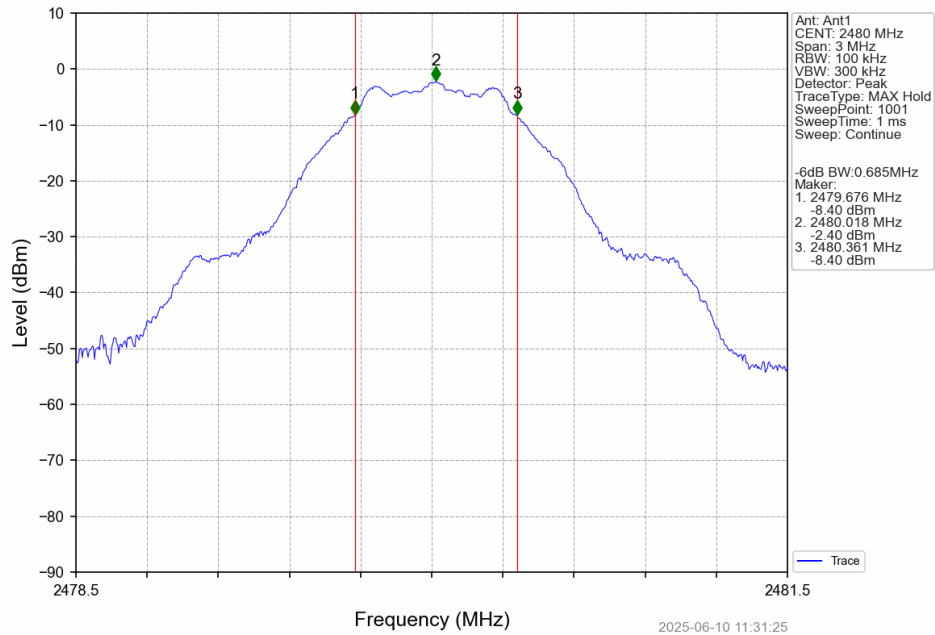
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

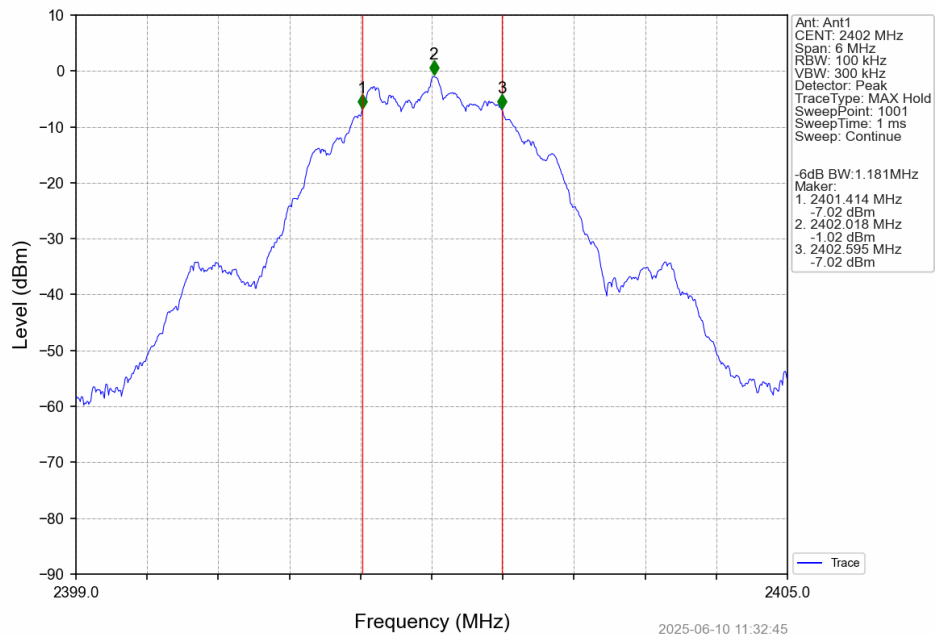
Scan code to check authenticity



## 1M HCH 2480MHz Ant1 NTN



## 2M LCH 2402MHz Ant1 NTN



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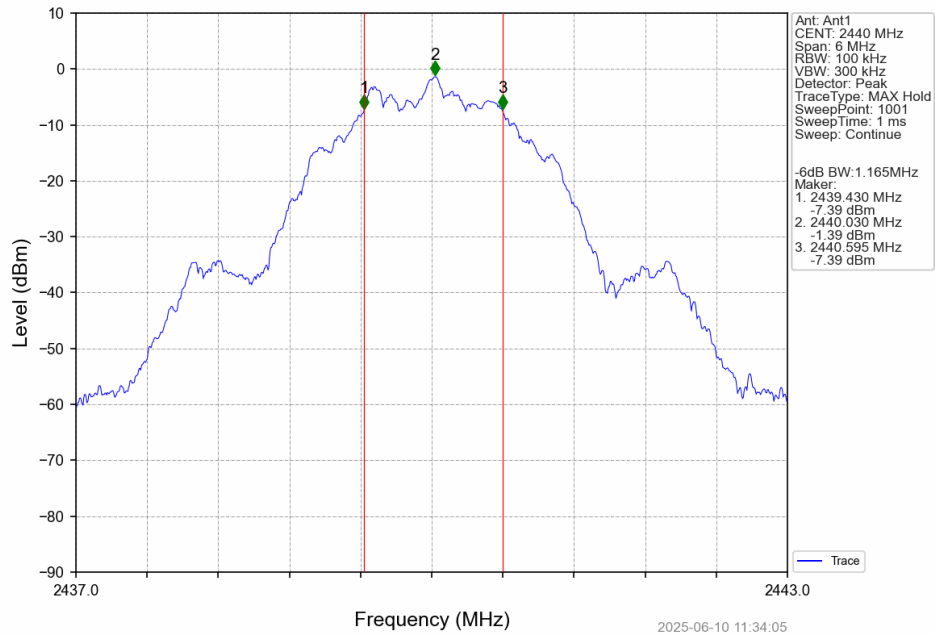
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

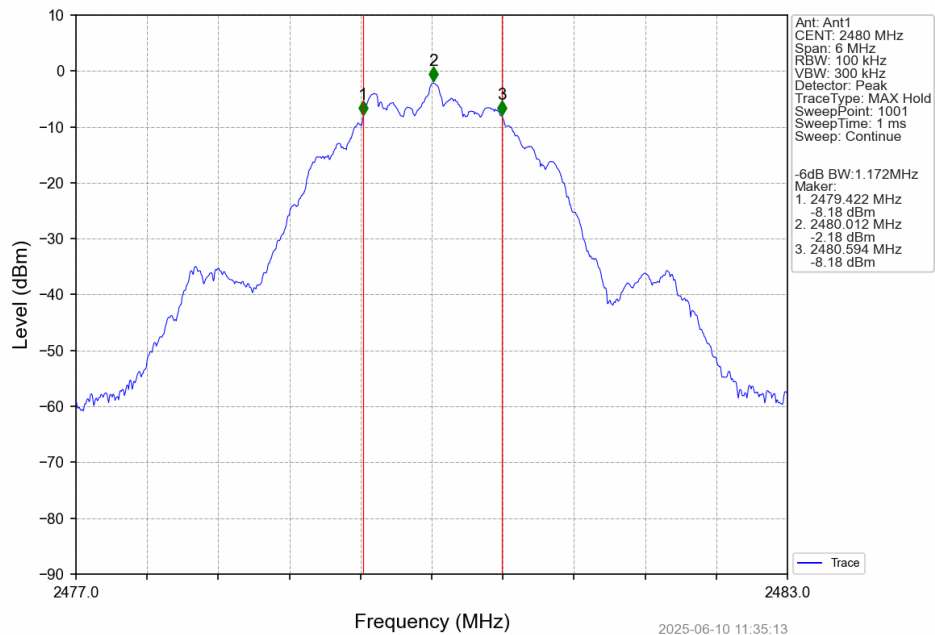
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## 2M MCH 2440MHz Ant1 NTN



## 2M HCH 2480MHz Ant1 NTN



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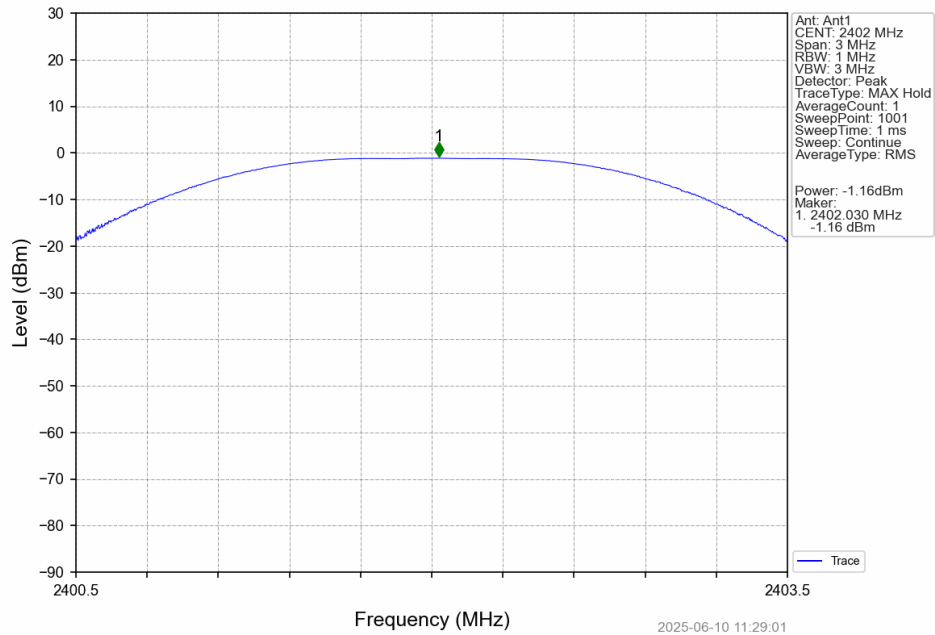
## B.2 Maximum Peak Conducted Output Power

| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|------|---------|-----------------|-------------------------------------------|-------|---------|
|      |         |                 | ANT1                                      | Limit |         |
| 1M   | SISO    | 2402            | -1.16                                     | <=30  | Pass    |
|      |         | 2440            | -1.54                                     | <=30  | Pass    |
|      |         | 2480            | -2.38                                     | <=30  | Pass    |
| 2M   | SISO    | 2402            | -1.07                                     | <=30  | Pass    |
|      |         | 2440            | -1.40                                     | <=30  | Pass    |
|      |         | 2480            | -2.22                                     | <=30  | Pass    |

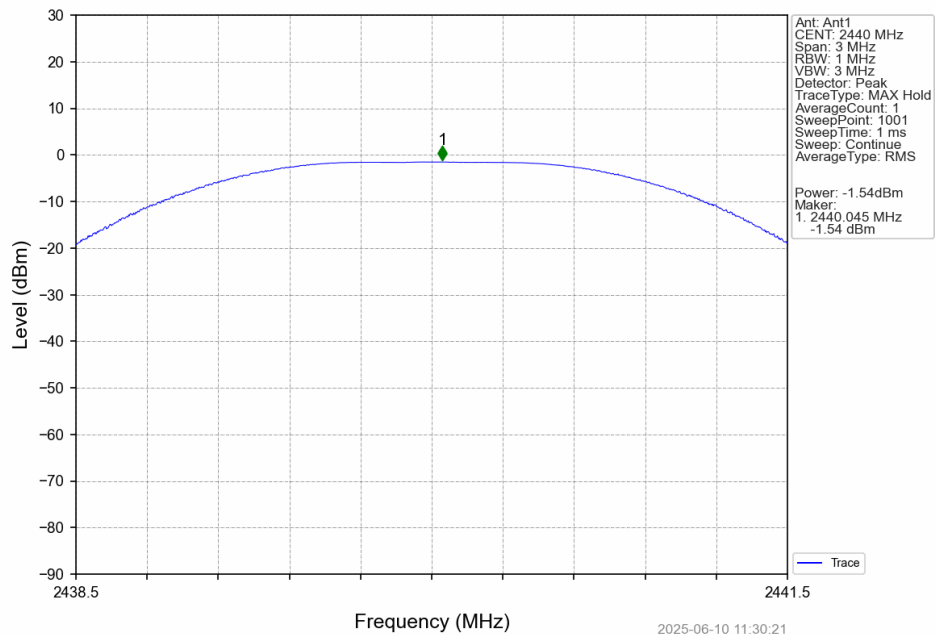




## 1M LCH 2402MHz Ant1 NTNV

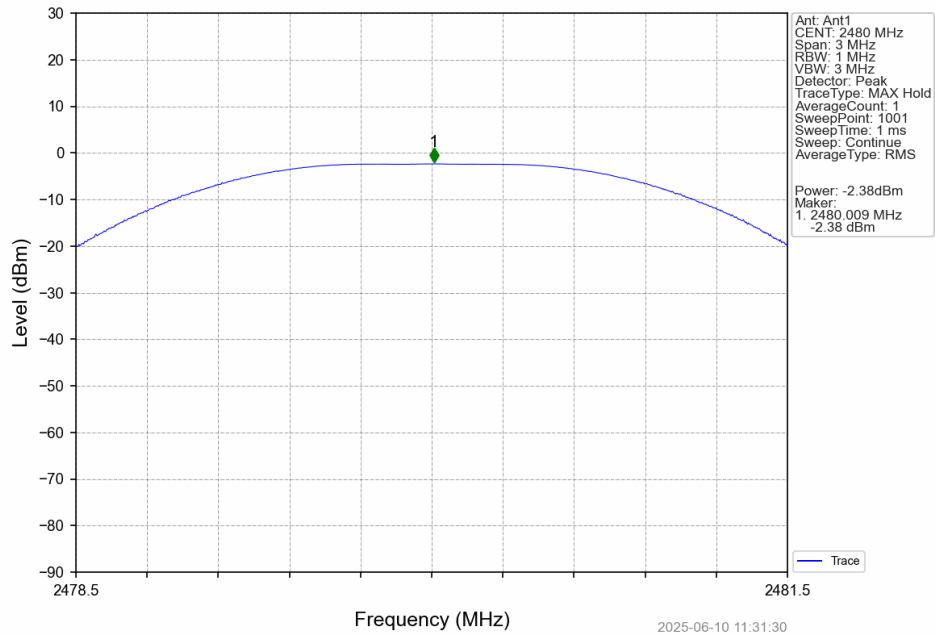


## 1M MCH 2440MHz Ant1 NTNV

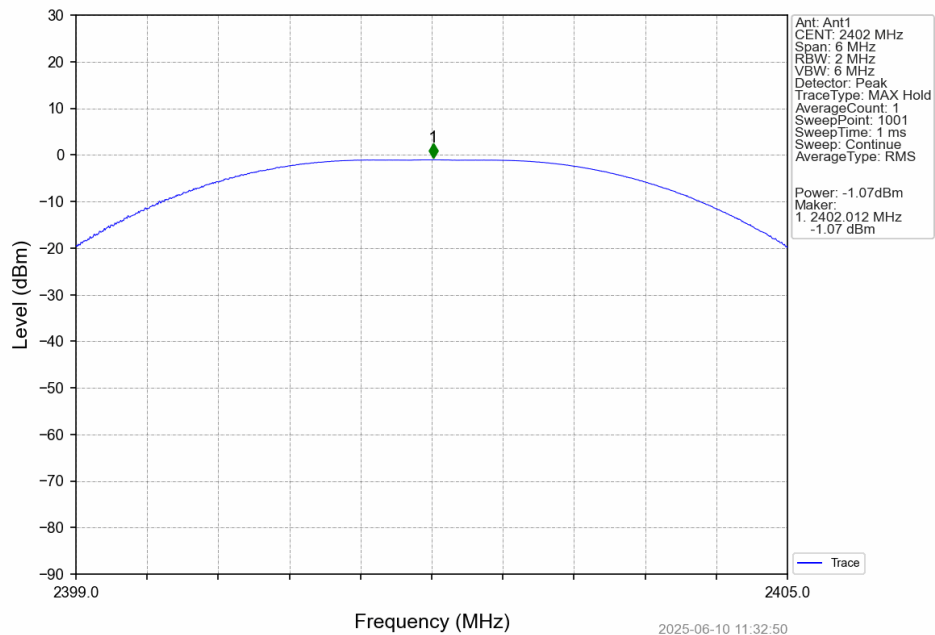




## 1M HCH 2480MHz Ant1 NTNV

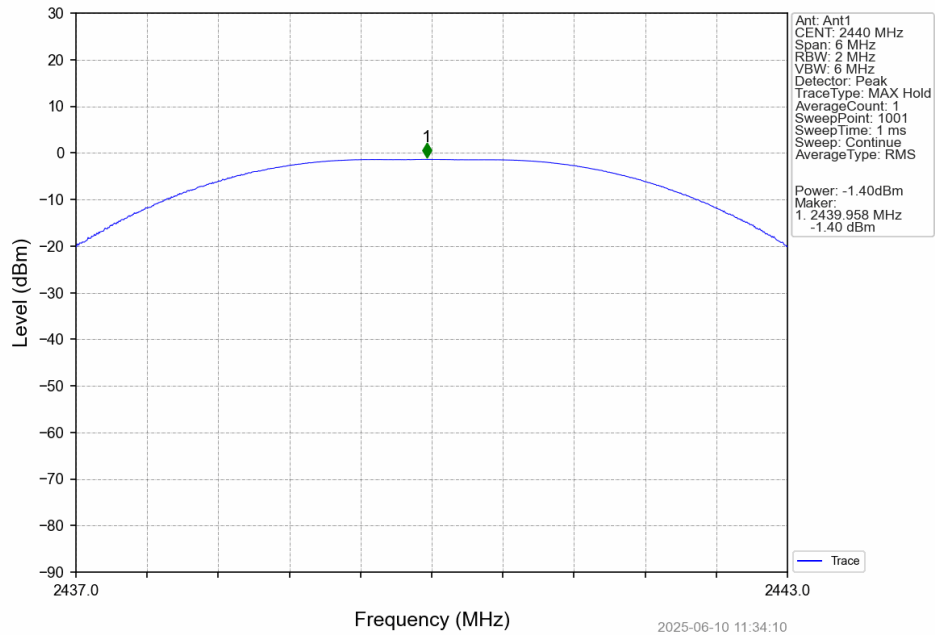


## 2M LCH 2402MHz Ant1 NTNV

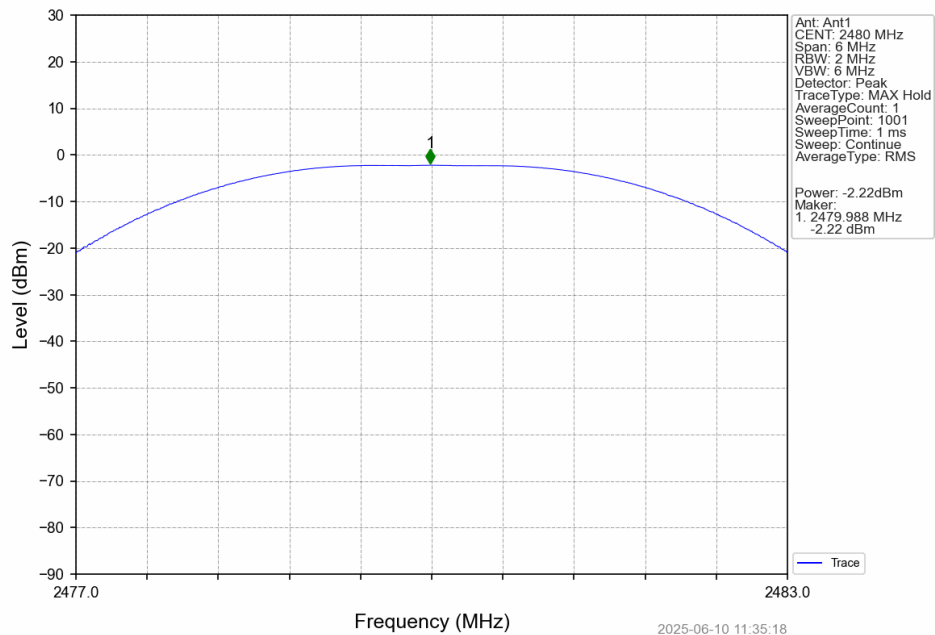




## 2M MCH 2440MHz Ant1 NTV



## 2M HCH 2480MHz Ant1 NTV





### B.3 Maximum Power Spectral Density Level

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       | Verdict |
|------|---------|-----------------|------------------------|-------|---------|
|      |         |                 | ANT1                   | Limit |         |
| 1M   | SISO    | 2402            | -17.35                 | <=8   | Pass    |
|      |         | 2440            | -17.46                 | <=8   | Pass    |
|      |         | 2480            | -18.07                 | <=8   | Pass    |
| 2M   | SISO    | 2402            | -19.05                 | <=8   | Pass    |
|      |         | 2440            | -19.34                 | <=8   | Pass    |
|      |         | 2480            | -20.20                 | <=8   | Pass    |



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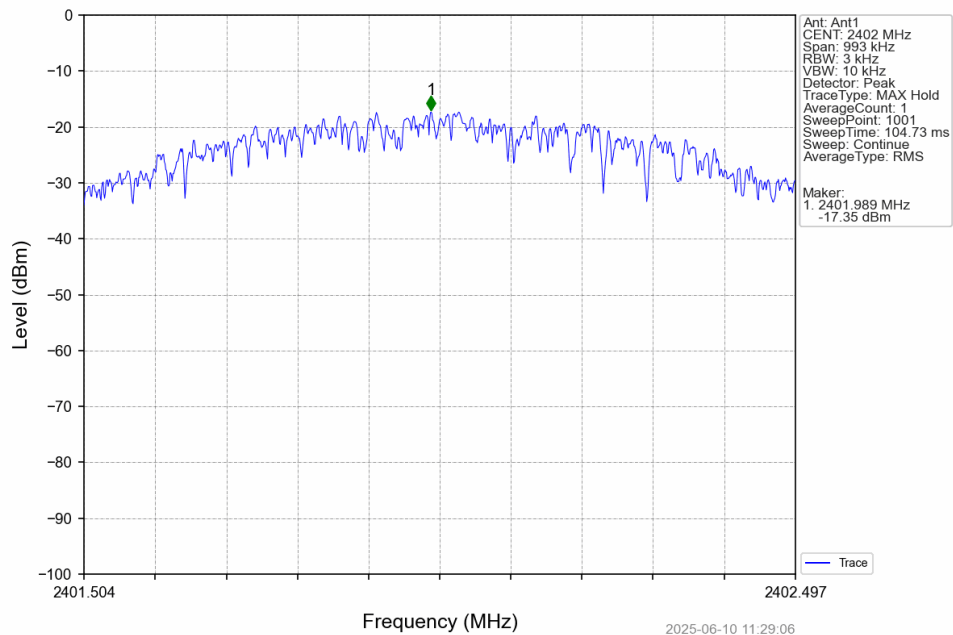
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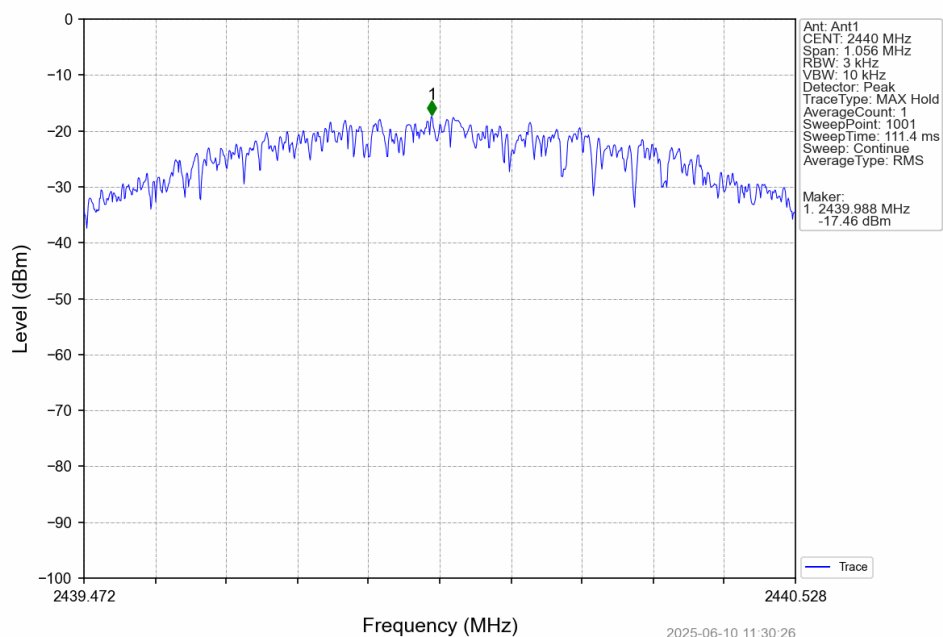
Scan code to check authenticity



## 1M LCH 2402MHz Ant1 NTNV

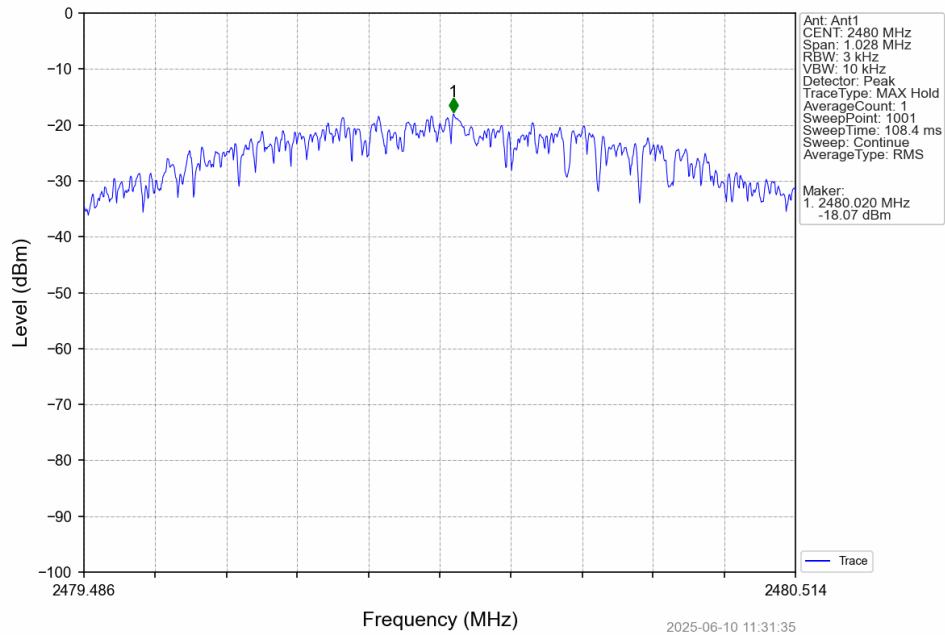


## 1M MCH 2440MHz Ant1 NTNV

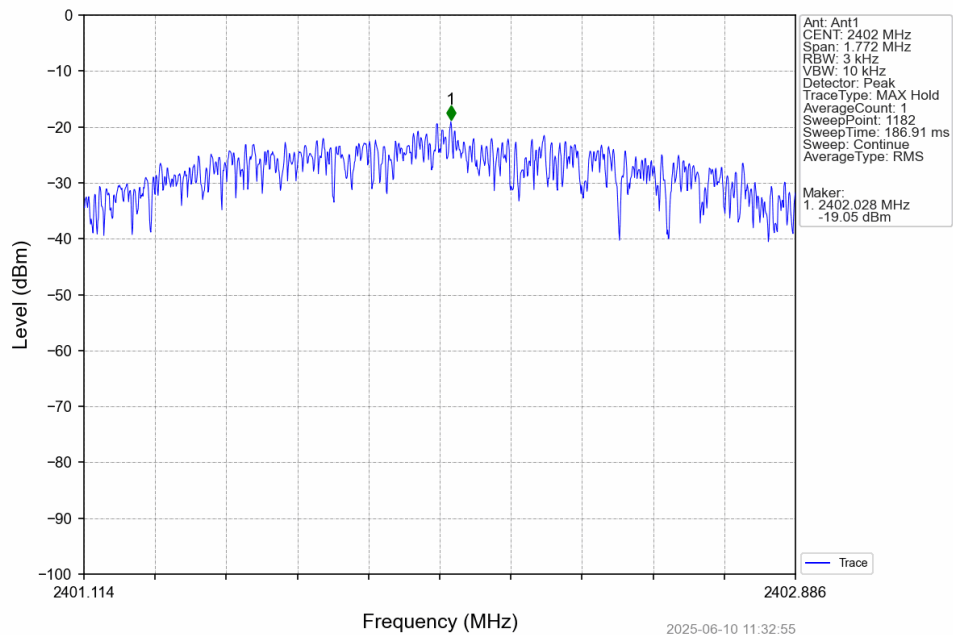




## 1M HCH 2480MHz Ant1 NTNV

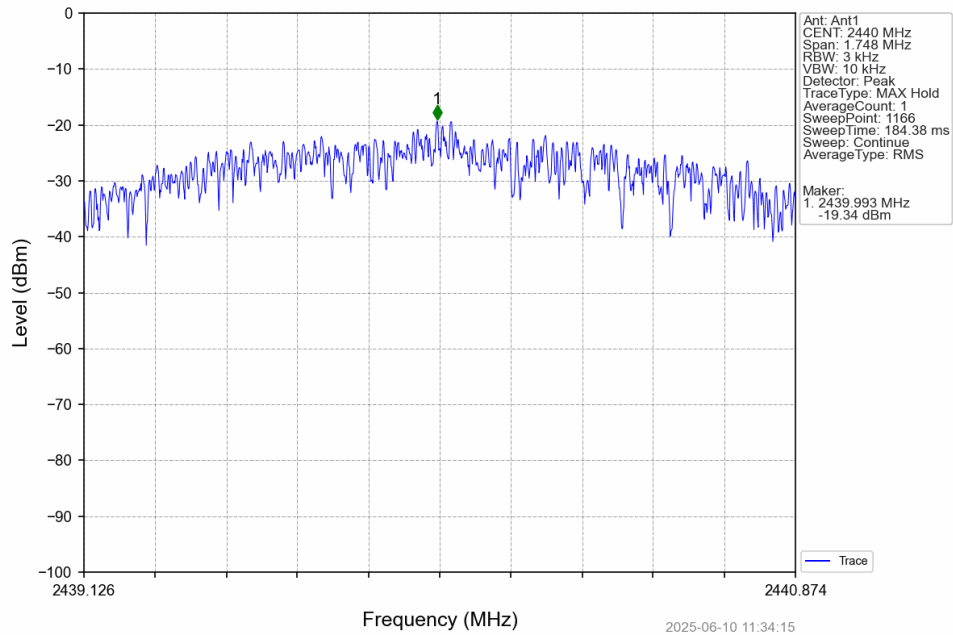


## 2M LCH 2402MHz Ant1 NTNV

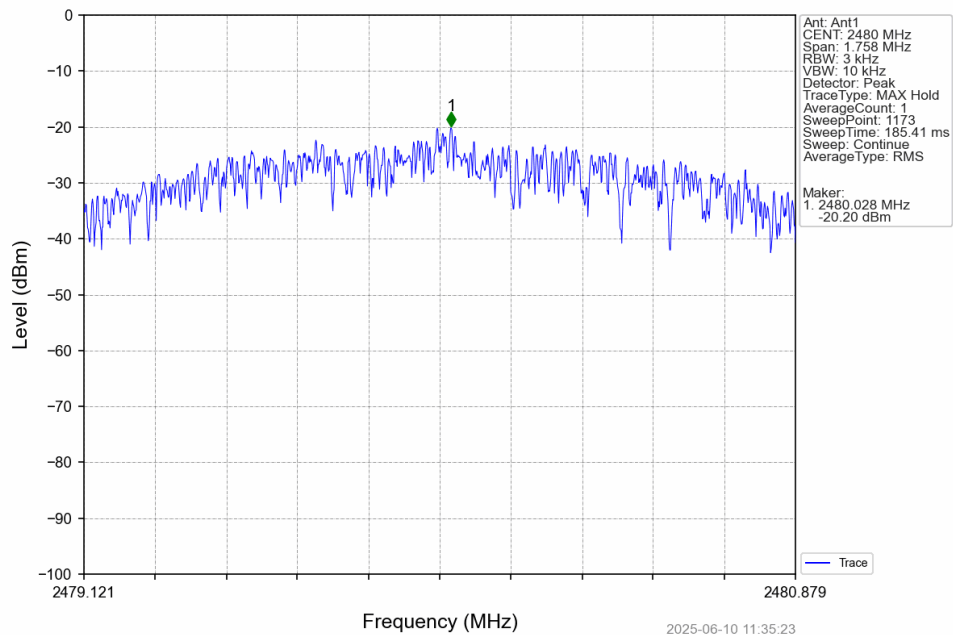




## 2M MCH 2440MHz Ant1 NTN



## 2M HCH 2480MHz Ant1 NTN





## B.4 Band Edge

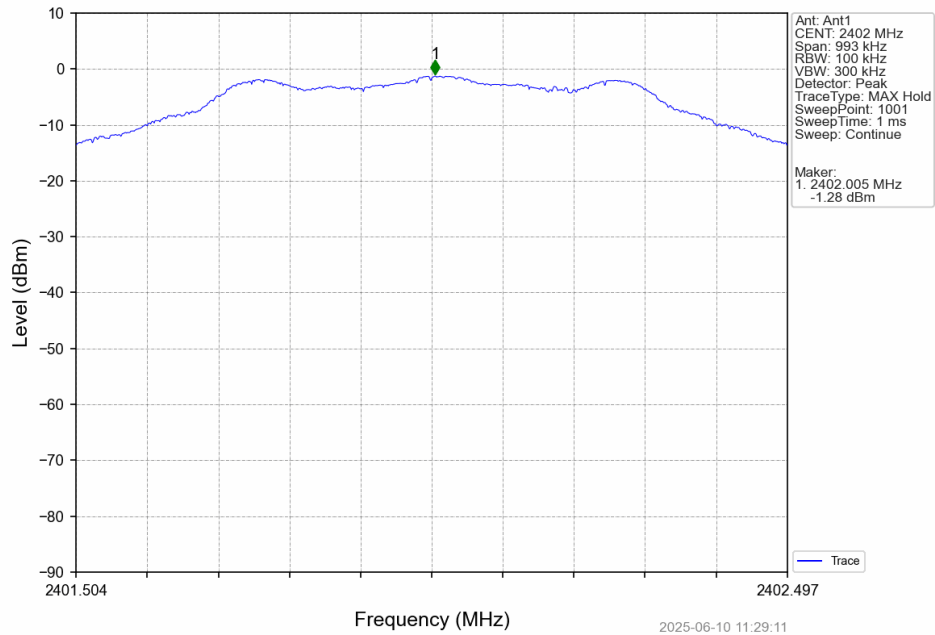
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M   | SISO    | 2402            | 1   | -1.28                    | -21.28      | Pass    |
|      |         | 2440            | 1   | -1.67                    | -21.67      | Pass    |
|      |         | 2480            | 1   | -2.47                    | -22.47      | Pass    |
| 2M   | SISO    | 2402            | 1   | -1.21                    | -21.21      | Pass    |
|      |         | 2440            | 1   | -1.57                    | -21.57      | Pass    |
|      |         | 2480            | 1   | -2.35                    | -22.35      | Pass    |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

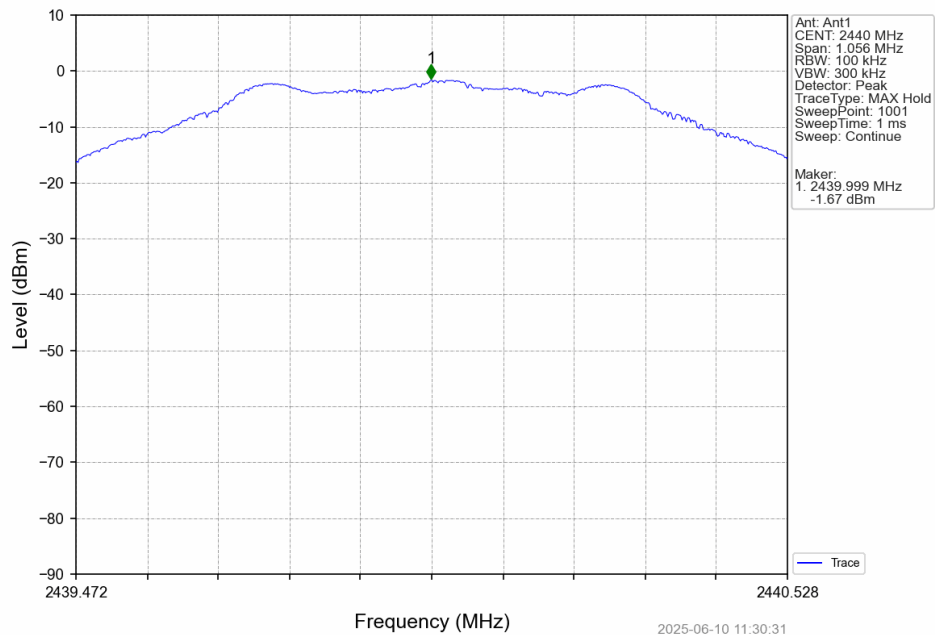




## 1M LCH 2402MHz Ant1 NTV



## 1M MCH 2440MHz Ant1 NTV



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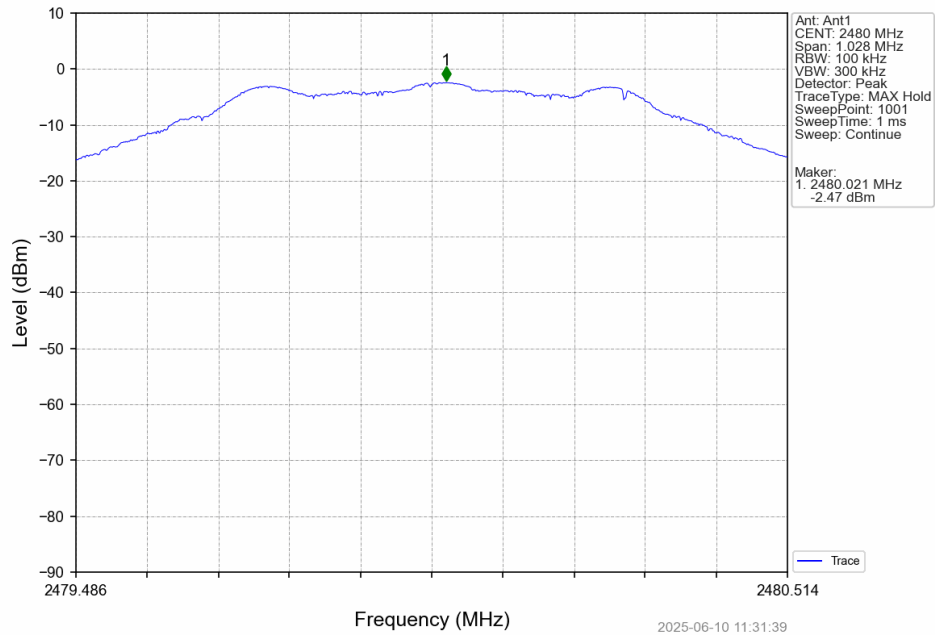
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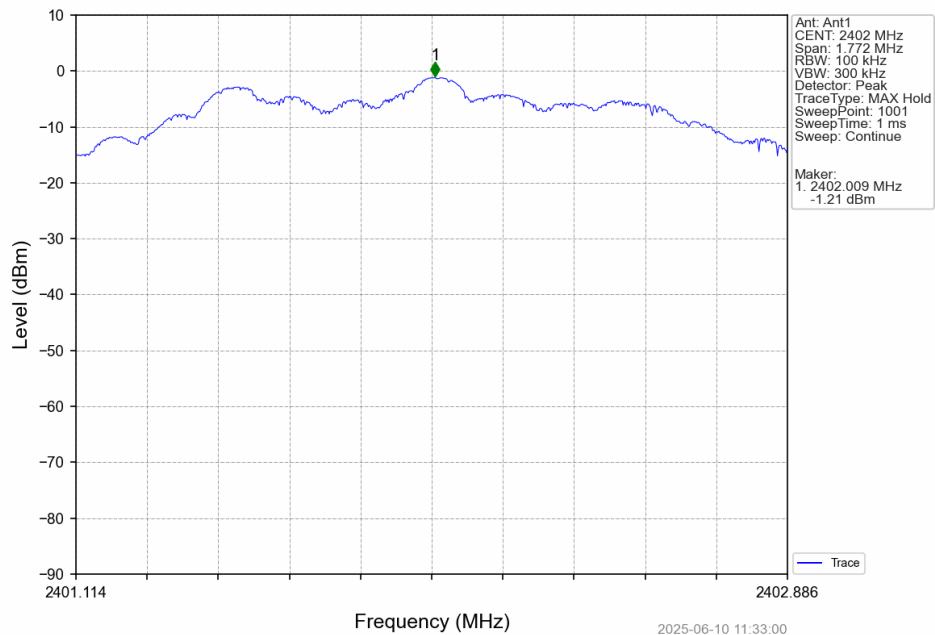
Scan code to check authenticity



## 1M HCH 2480MHz Ant1 NTNV



## 2M LCH 2402MHz Ant1 NTNV



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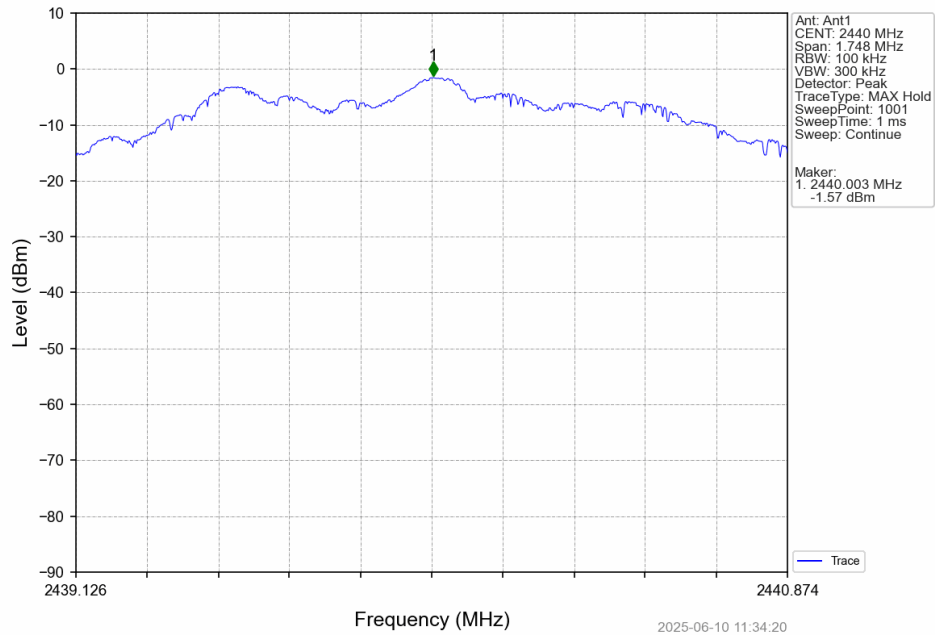
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

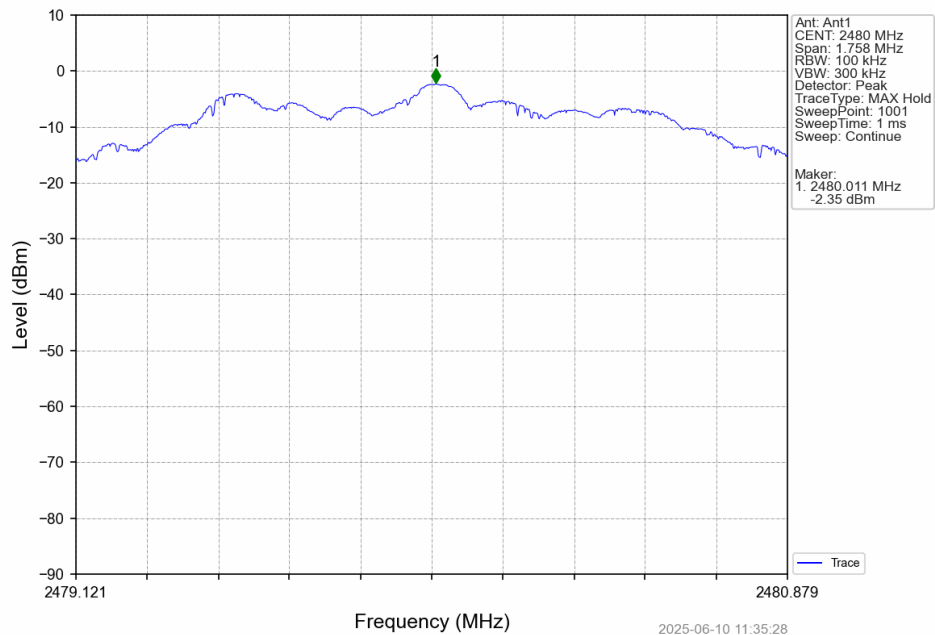
Scan code to check authenticity



## 2M MCH 2440MHz Ant1 NTNV



## 2M HCH 2480MHz Ant1 NTNV



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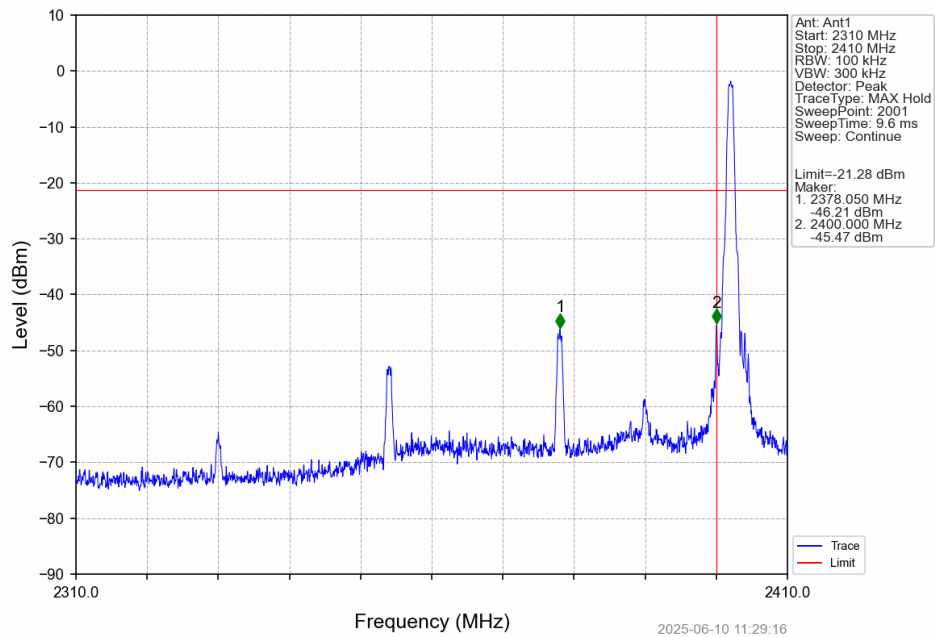
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

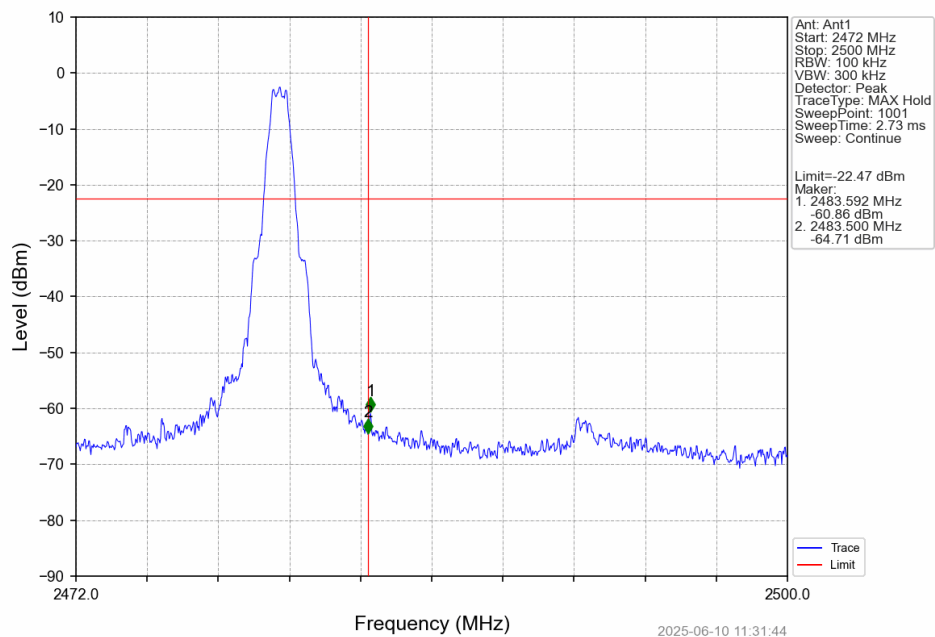
Scan code to check authenticity



## 1M LCH 2402MHz Ant1 NTNV



## 1M HCH 2480MHz Ant1 NTNV



## 2M LCH 2402MHz Ant1 NTNV

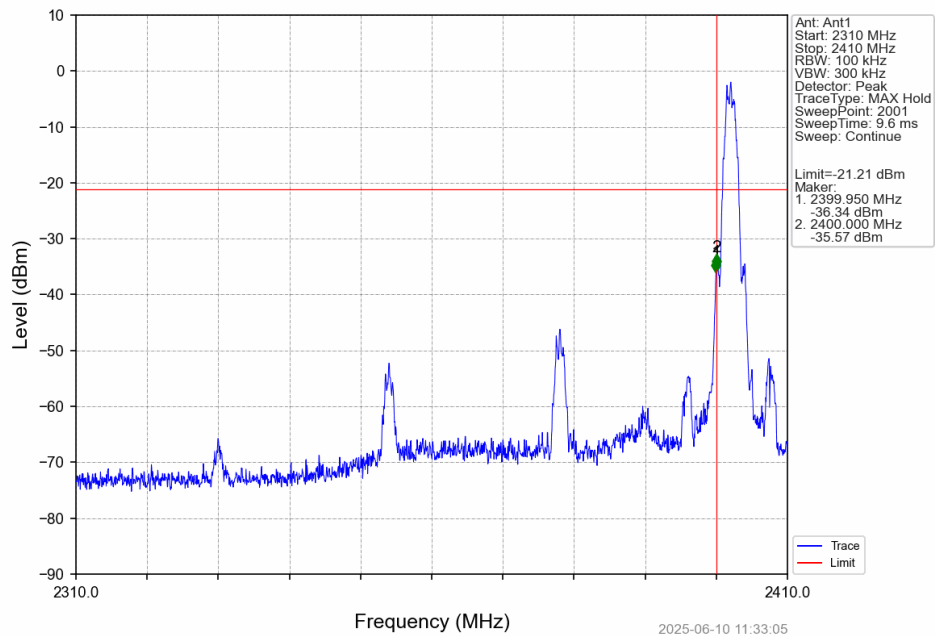


Shenzhen LCS Compliance Testing Laboratory Ltd.

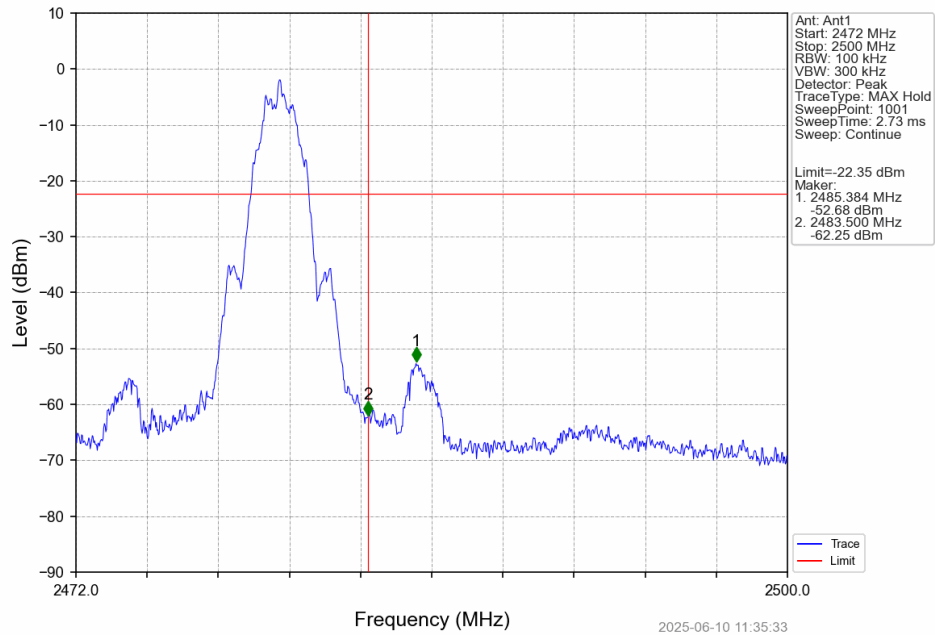
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## 2M\_HCH\_2480MHz\_Ant1\_NTNV





## B.5 Conducted RF Spurious Emission

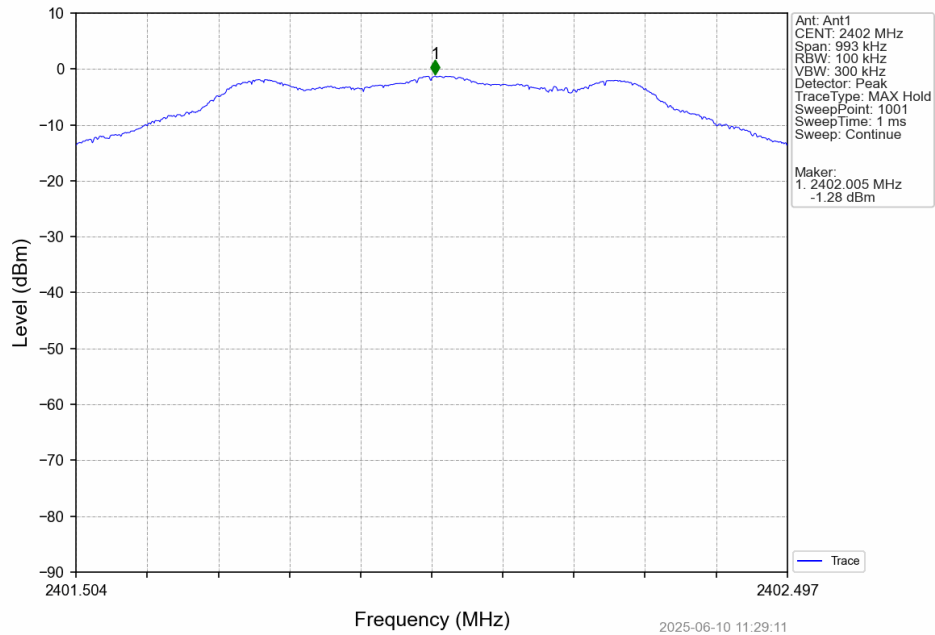
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------|---------|-----------------|-----|--------------------------|
| 1M   | SISO    | 2402            | 1   | -1.28                    |
|      |         | 2440            | 1   | -1.67                    |
|      |         | 2480            | 1   | -2.47                    |
| 2M   | SISO    | 2402            | 1   | -1.21                    |
|      |         | 2440            | 1   | -1.57                    |
|      |         | 2480            | 1   | -2.35                    |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

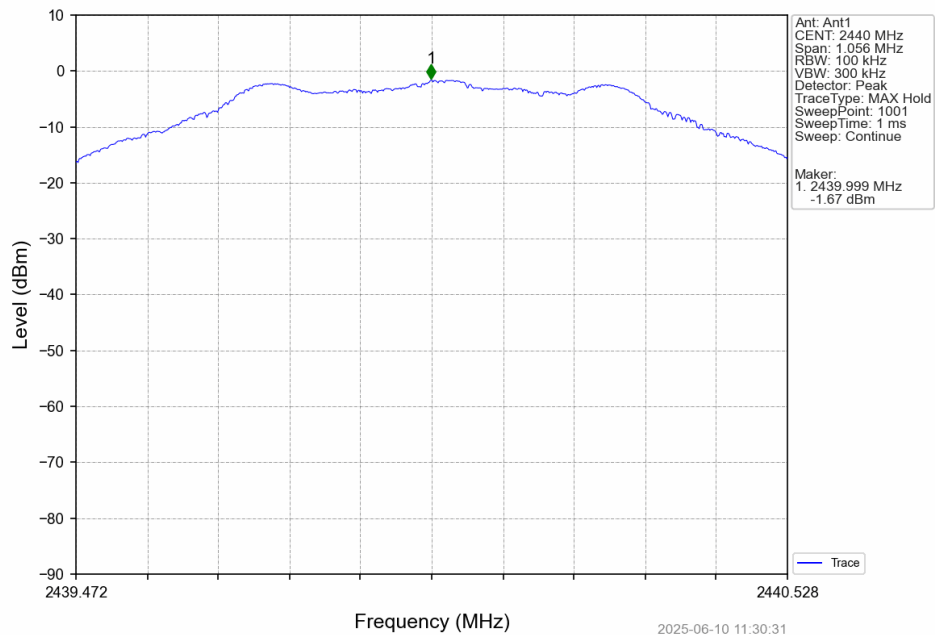




## 1M LCH 2402MHz Ant1 NTV



## 1M MCH 2440MHz Ant1 NTV



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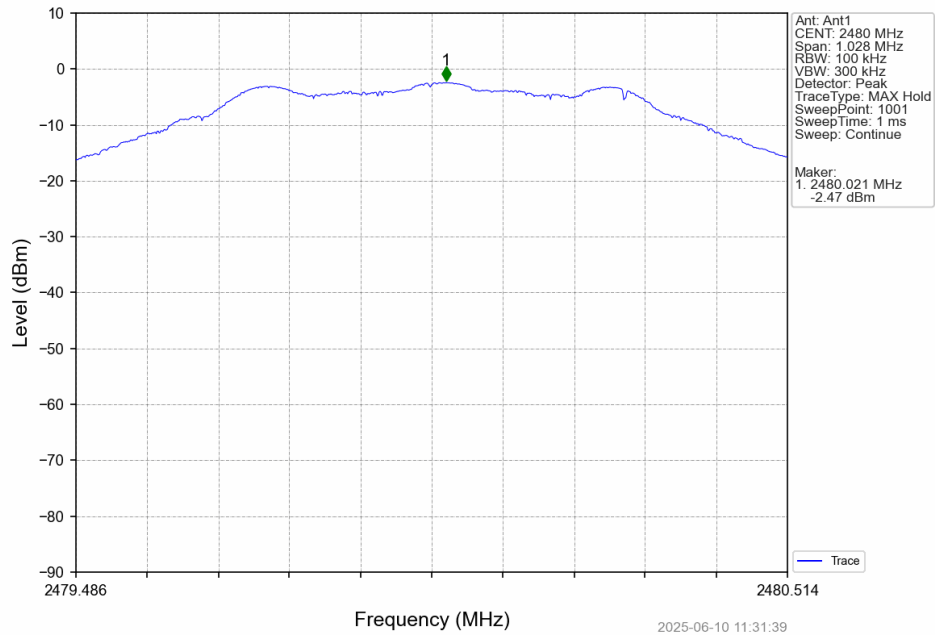
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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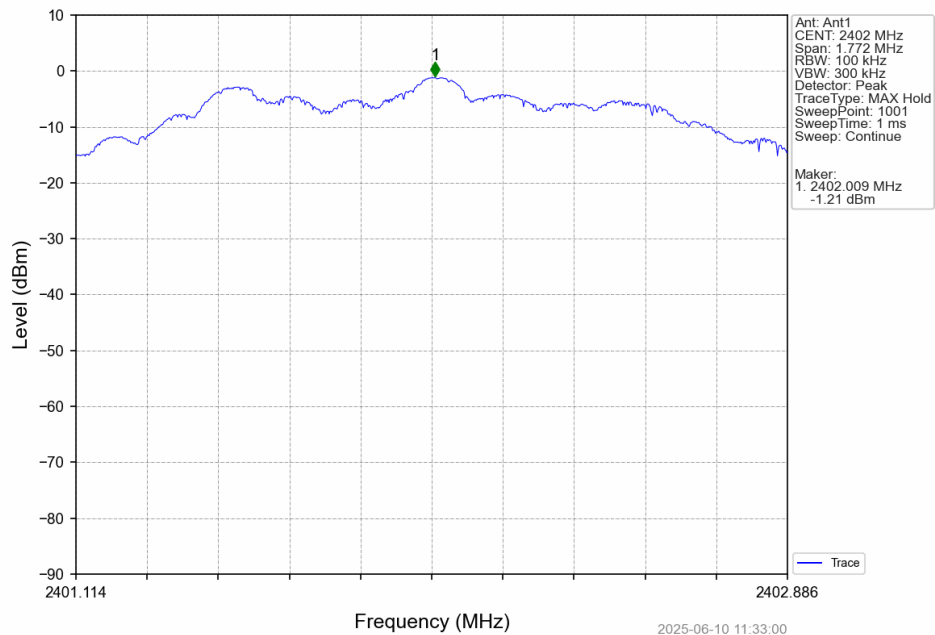
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## 1M HCH 2480MHz Ant1 NTNV



## 2M LCH 2402MHz Ant1 NTNV



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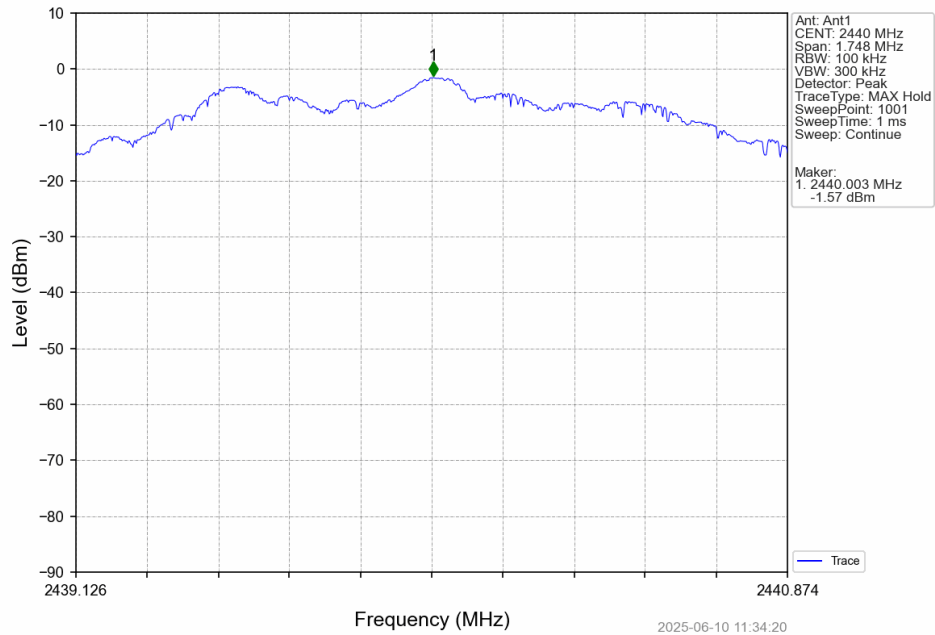
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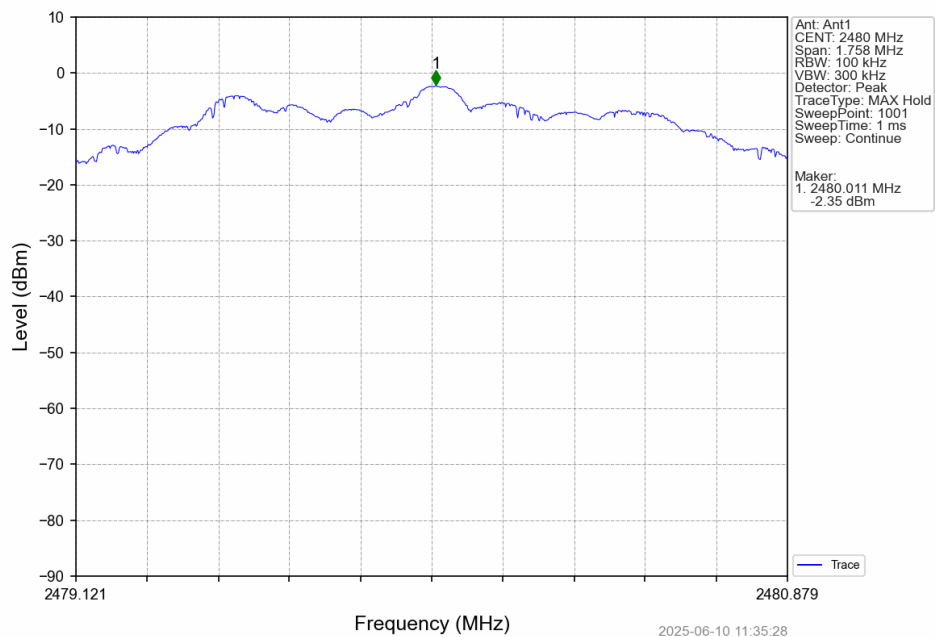
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## 2M MCH 2440MHz Ant1 NTN



## 2M HCH 2480MHz Ant1 NTN



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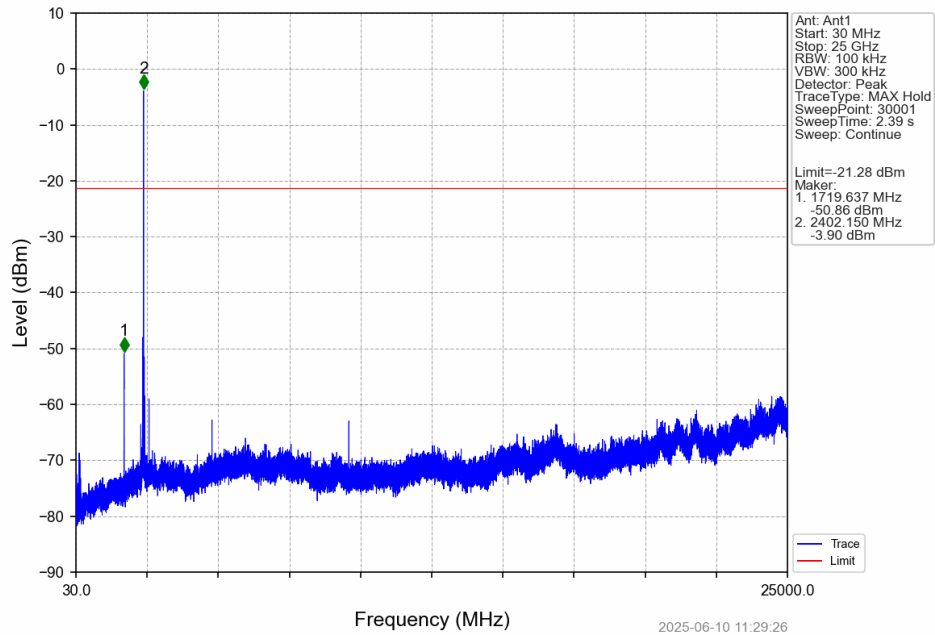
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

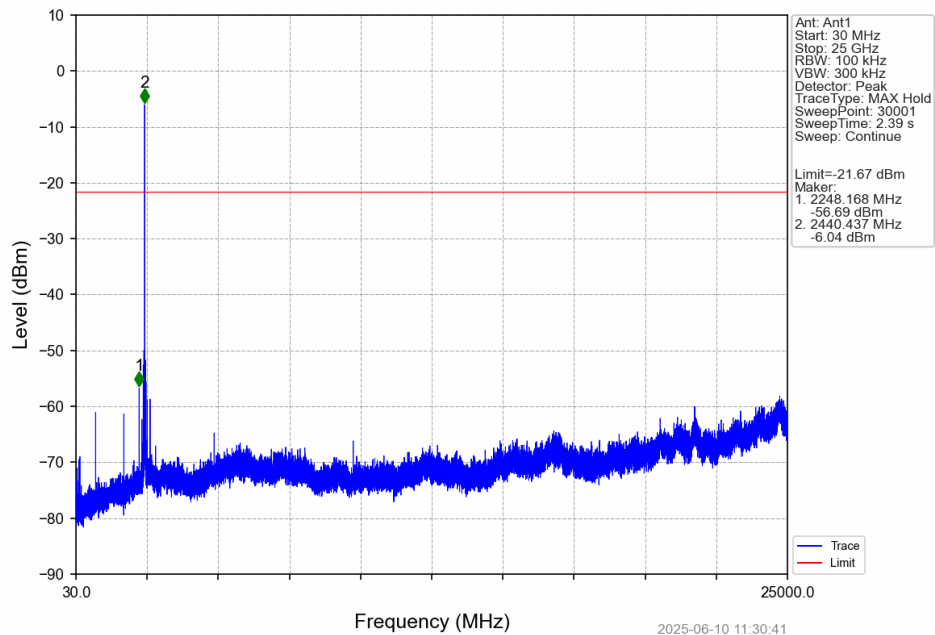
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## 1M LCH 2402MHz Ant1 NTNV



## 1M MCH 2440MHz Ant1 NTNV



## 1M HCH 2480MHz Ant1 NTNV

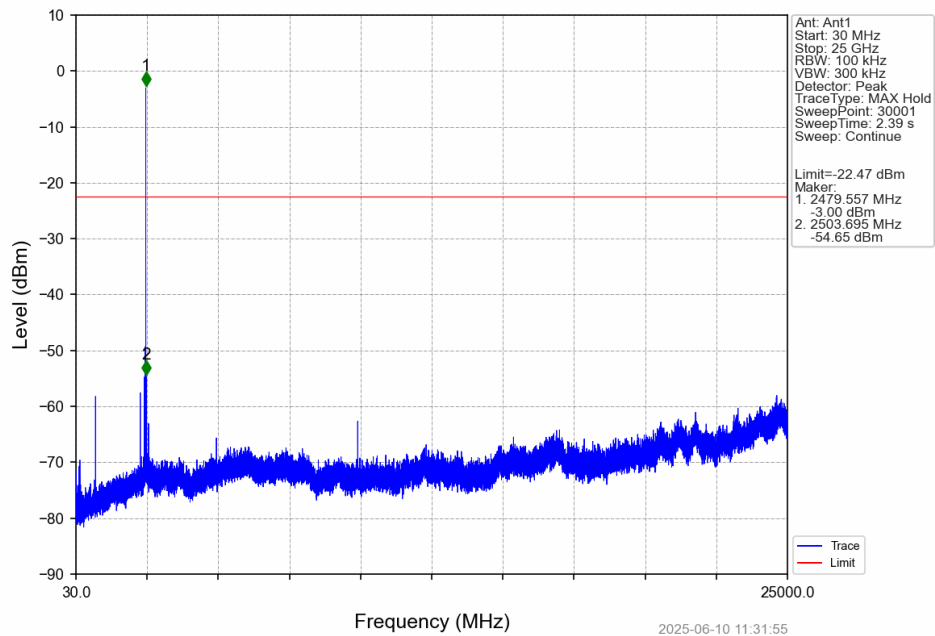


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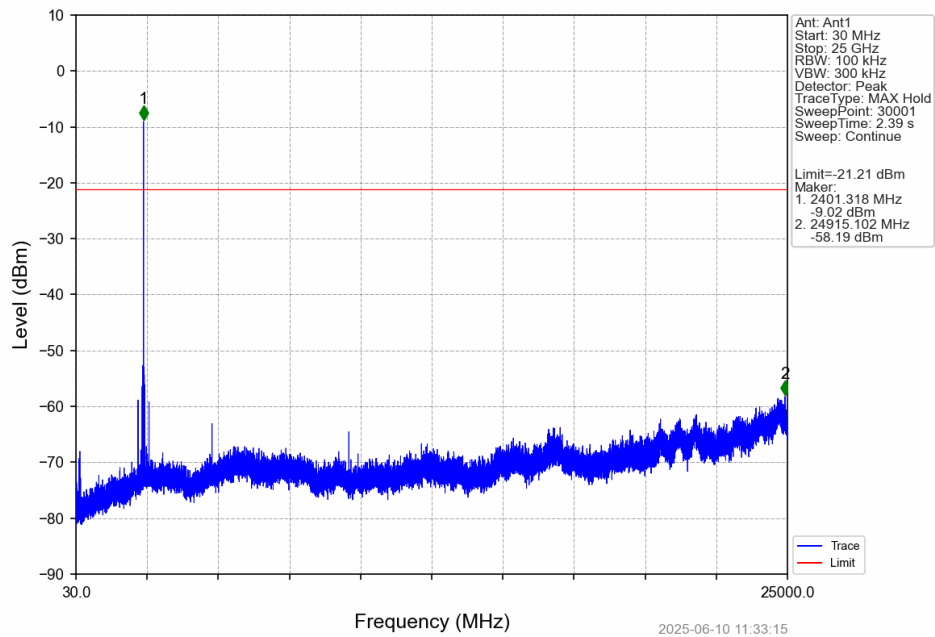
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2M\_LCH\_2402MHz\_Ant1\_NTNV



2M\_MCH\_2440MHz\_Ant1\_NTNV

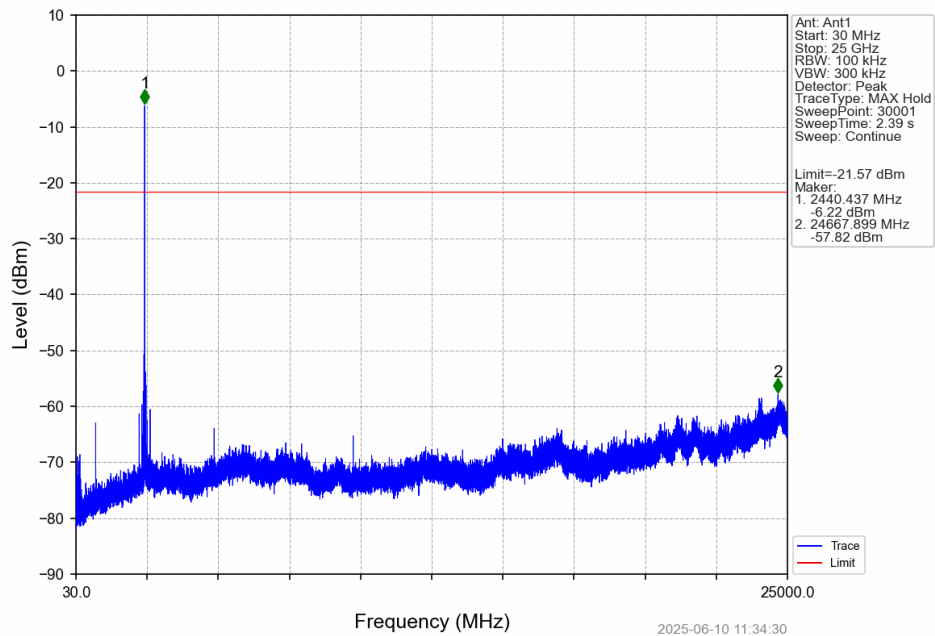


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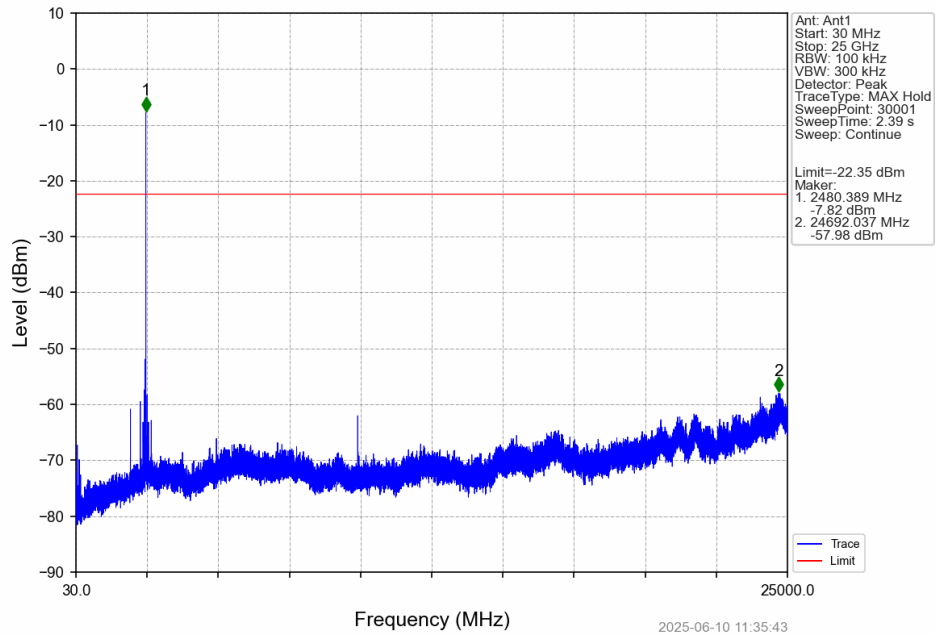
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2M\_HCH\_2480MHz\_Ant1\_NTNV



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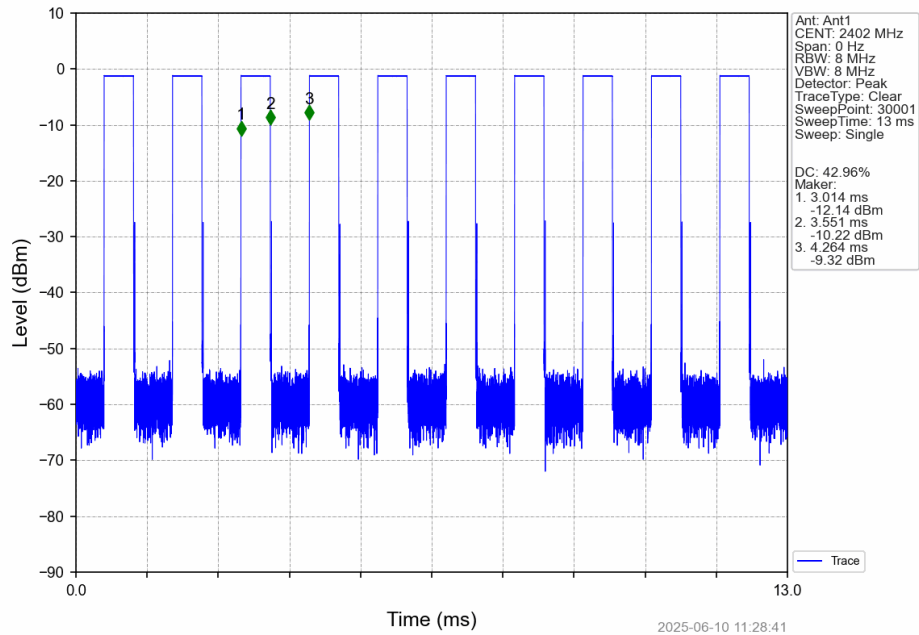
## B.6 Duty Cycle

| Ant1 |         |                 |           |             |                |                                   |                       |
|------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 1M   | SISO    | 2402            | 0.537     | 1.250       | 42.96          | 3.67                              | 0.03                  |
|      |         | 2440            | 0.537     | 1.250       | 42.96          | 3.67                              | 0.03                  |
|      |         | 2480            | 0.537     | 1.250       | 42.96          | 3.67                              | 0.03                  |
| 2M   | SISO    | 2402            | 0.280     | 1.249       | 22.42          | 6.49                              | 0.03                  |
|      |         | 2440            | 0.281     | 1.250       | 22.48          | 6.48                              | 0.03                  |
|      |         | 2480            | 0.280     | 1.250       | 22.40          | 6.50                              | 0.03                  |

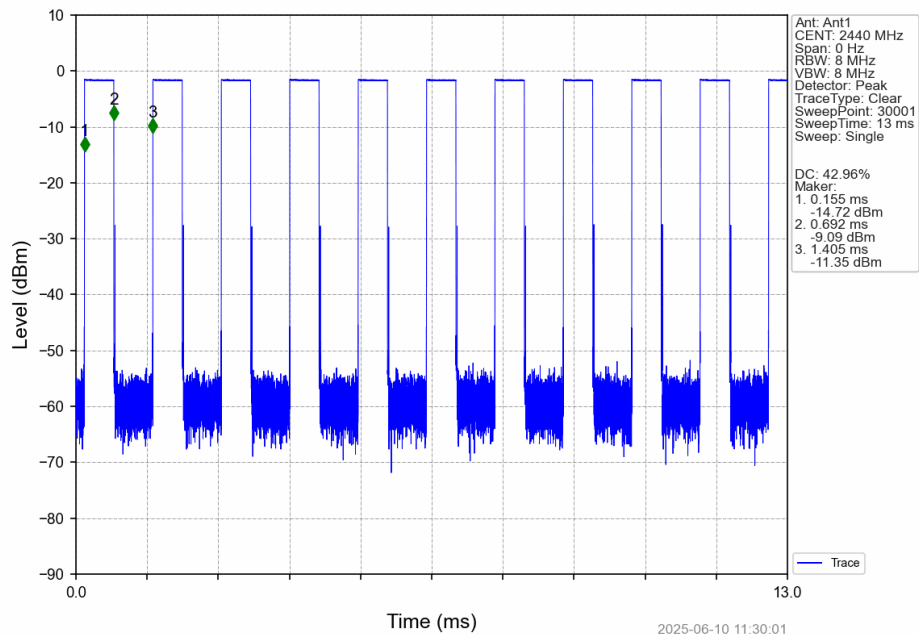




## 1M LCH 2402MHz Ant1 NTV



## 1M MCH 2440MHz Ant1 NTV



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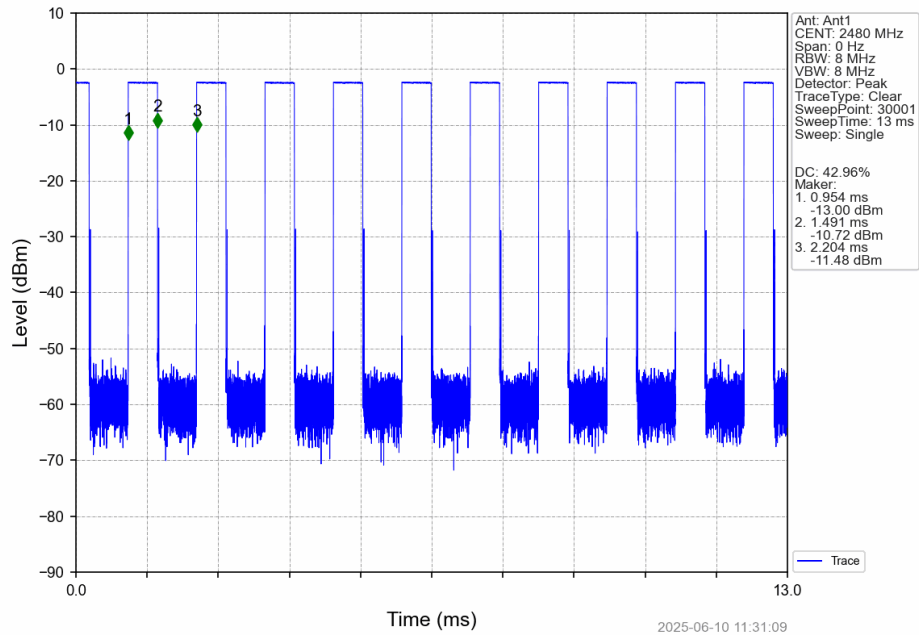
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

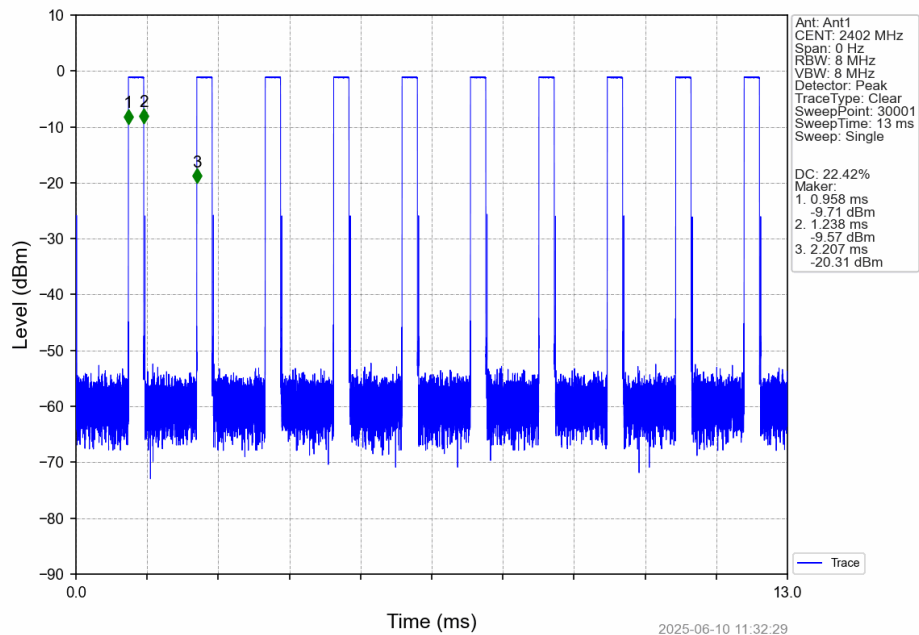
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## 1M HCH 2480MHz Ant1 NTN

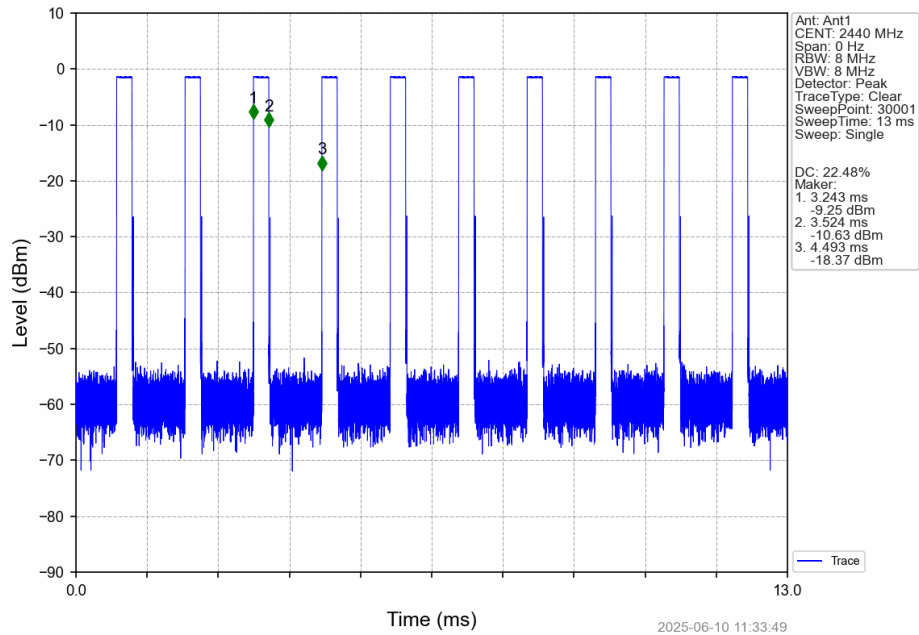


## 2M LCH 2402MHz Ant1 NTN

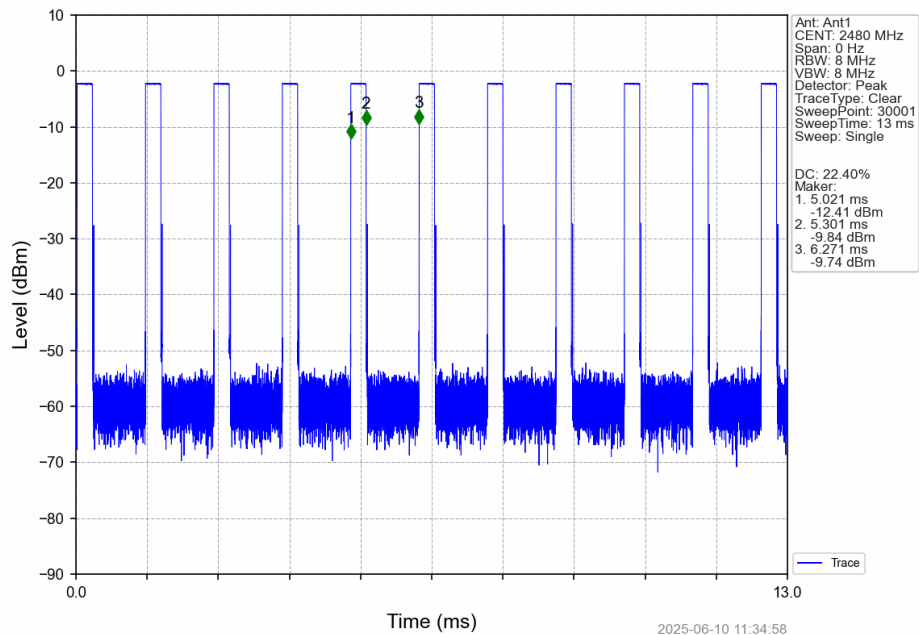




## 2M MCH 2440MHz Ant1 NTN



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Shenzhen LCS Compliance Testing Laboratory Ltd.

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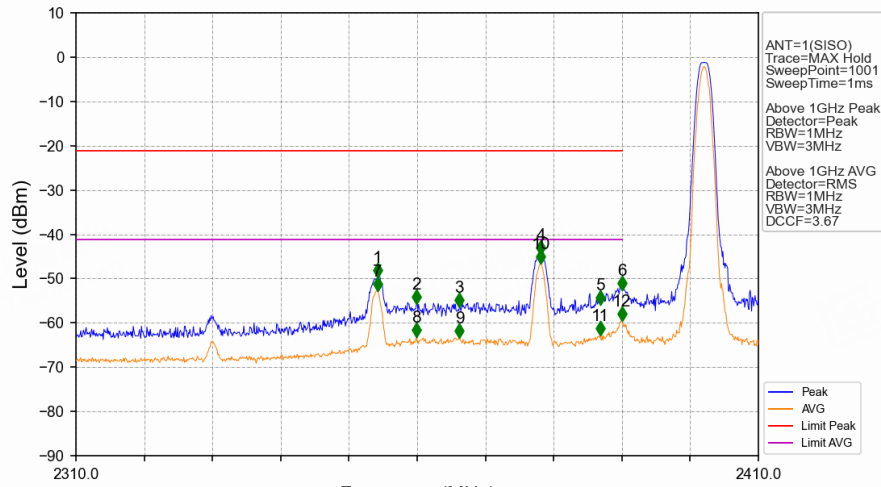
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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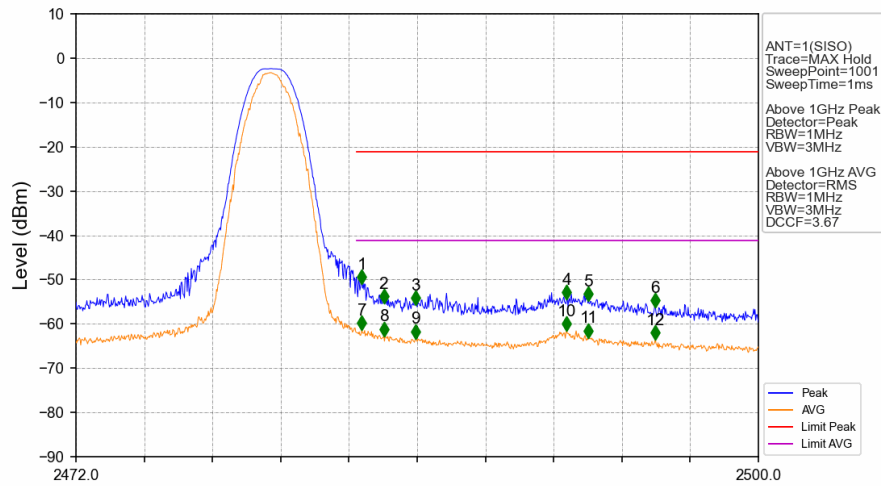
## B.7 Restrict Band

1M\_LCH\_2402MHz\_Ant1\_NTNV



| Frequency (MHz) |                 |             |             |             |        |        |    |                 |             |             |             |
|-----------------|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|
| No              | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1               | 2354.200        | -49.61      | -21.20      | 28.41       | Pass   | Peak   | 7  | 2354.200        | -52.78      | -41.20      | 11.58       |
| 2               | 2359.900        | -55.70      | -21.20      | 34.50       | Pass   | Peak   | 8  | 2359.900        | -63.22      | -41.20      | 22.02       |
| 3               | 2366.200        | -56.48      | -21.20      | 35.28       | Pass   | Peak   | 9  | 2366.200        | -63.28      | -41.20      | 22.08       |
| 4               | 2378.100        | -44.62      | -21.20      | 23.42       | Pass   | Peak   | 10 | 2378.100        | -46.67      | -41.20      | 5.47        |
| 5               | 2386.800        | -55.91      | -21.20      | 34.71       | Pass   | Peak   | 11 | 2386.800        | -62.87      | -41.20      | 21.67       |
| 6               | 2390.000        | -52.58      | -21.20      | 31.38       | Pass   | Peak   | 12 | 2390.000        | -59.47      | -41.20      | 18.27       |

1M\_HCH\_2480MHz\_Ant1\_NTNV



| Frequency (MHz) |                 |             |             |             |        |        |    |                 |             |             |             |
|-----------------|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|
| No              | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1               | 2483.732        | -51.05      | -21.20      | 29.85       | Pass   | Peak   | 7  | 2483.732        | -61.33      | -41.20      | 20.13       |
| 2               | 2484.628        | -55.27      | -21.20      | 34.07       | Pass   | Peak   | 8  | 2484.628        | -62.71      | -41.20      | 21.51       |
| 3               | 2485.944        | -55.67      | -21.20      | 34.47       | Pass   | Peak   | 9  | 2485.944        | -63.26      | -41.20      | 22.06       |
| 4               | 2492.132        | -54.46      | -21.20      | 33.26       | Pass   | Peak   | 10 | 2492.132        | -61.55      | -41.20      | 20.35       |
| 5               | 2493.028        | -54.87      | -21.20      | 33.67       | Pass   | Peak   | 11 | 2493.028        | -63.08      | -41.20      | 21.88       |
| 6               | 2495.772        | -56.29      | -21.20      | 35.09       | Pass   | Peak   | 12 | 2495.772        | -63.48      | -41.20      | 22.28       |

2M\_LCH\_2402MHz\_Ant1\_NTNV

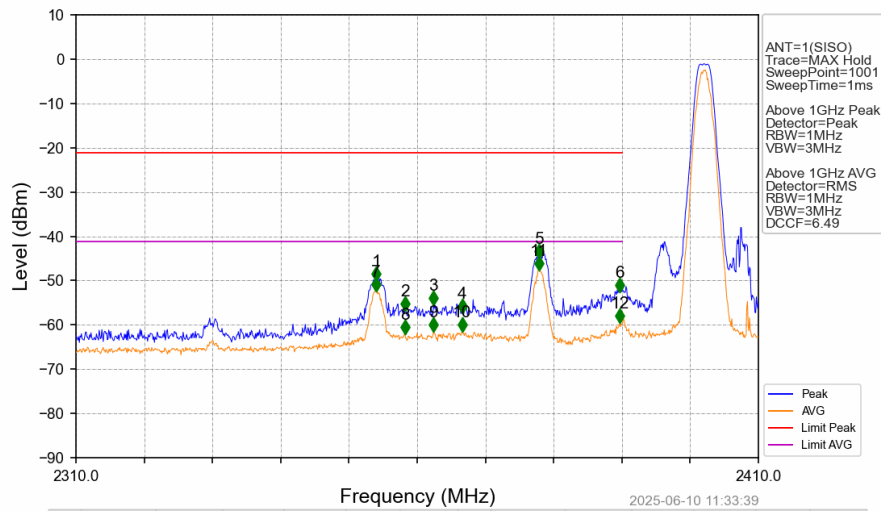


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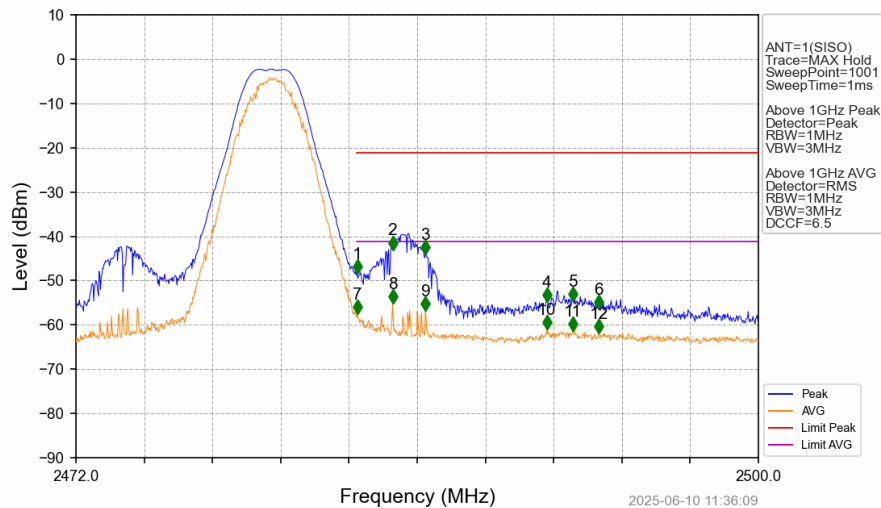
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| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 2354.000        | -50.09      | -21.20      | 28.89       | Pass   | Peak   | 7  | 2354.000        | -52.36      | -41.20      | 11.16       | Pass   | AVG    |
| 2  | 2358.200        | -56.77      | -21.20      | 35.57       | Pass   | Peak   | 8  | 2358.200        | -61.99      | -41.20      | 20.79       | Pass   | AVG    |
| 3  | 2362.400        | -55.57      | -21.20      | 34.37       | Pass   | Peak   | 9  | 2362.400        | -61.53      | -41.20      | 20.33       | Pass   | AVG    |
| 4  | 2366.600        | -57.38      | -21.20      | 36.18       | Pass   | Peak   | 10 | 2366.600        | -61.47      | -41.20      | 20.27       | Pass   | AVG    |
| 5  | 2377.800        | -44.92      | -21.20      | 23.72       | Pass   | Peak   | 11 | 2377.800        | -47.69      | -41.20      | 6.49        | Pass   | AVG    |
| 6  | 2389.700        | -52.53      | -21.20      | 31.33       | Pass   | Peak   | 12 | 2389.700        | -59.60      | -41.20      | 18.40       | Pass   | AVG    |

## 2M\_HCH\_2480MHz\_Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 2483.536        | -48.40      | -21.20      | 27.20       | Pass   | Peak   | 7  | 2483.536        | -57.58      | -41.20      | 16.38       | Pass   | AVG    |
| 2  | 2484.992        | -43.04      | -21.20      | 21.84       | Pass   | Peak   | 8  | 2484.992        | -55.10      | -41.20      | 13.90       | Pass   | AVG    |
| 3  | 2486.336        | -44.07      | -21.20      | 22.87       | Pass   | Peak   | 9  | 2486.336        | -56.73      | -41.20      | 15.53       | Pass   | AVG    |
| 4  | 2491.320        | -54.80      | -21.20      | 33.60       | Pass   | Peak   | 10 | 2491.320        | -61.04      | -41.20      | 19.84       | Pass   | AVG    |
| 5  | 2492.384        | -54.57      | -21.20      | 33.37       | Pass   | Peak   | 11 | 2492.384        | -61.35      | -41.20      | 20.15       | Pass   | AVG    |
| 6  | 2493.448        | -56.35      | -21.20      | 35.15       | Pass   | Peak   | 12 | 2493.448        | -61.93      | -41.20      | 20.73       | Pass   | AVG    |



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