



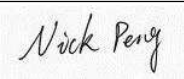
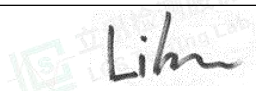
## Appendix C

### RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: LED PROJECTOR

Test Model: L003A

#### Environmental Conditions

|                    |                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------|
| Temperature:       | 23.8 ° C                                                                                        |
| Relative Humidity: | 52.1%                                                                                           |
| ATM Pressure:      | 100.0 kPa                                                                                       |
| Test Engineer:     | <br>Nick Peng |
| Supervised by:     | <br>Li Huan |





## C.1 -6dB Bandwidth

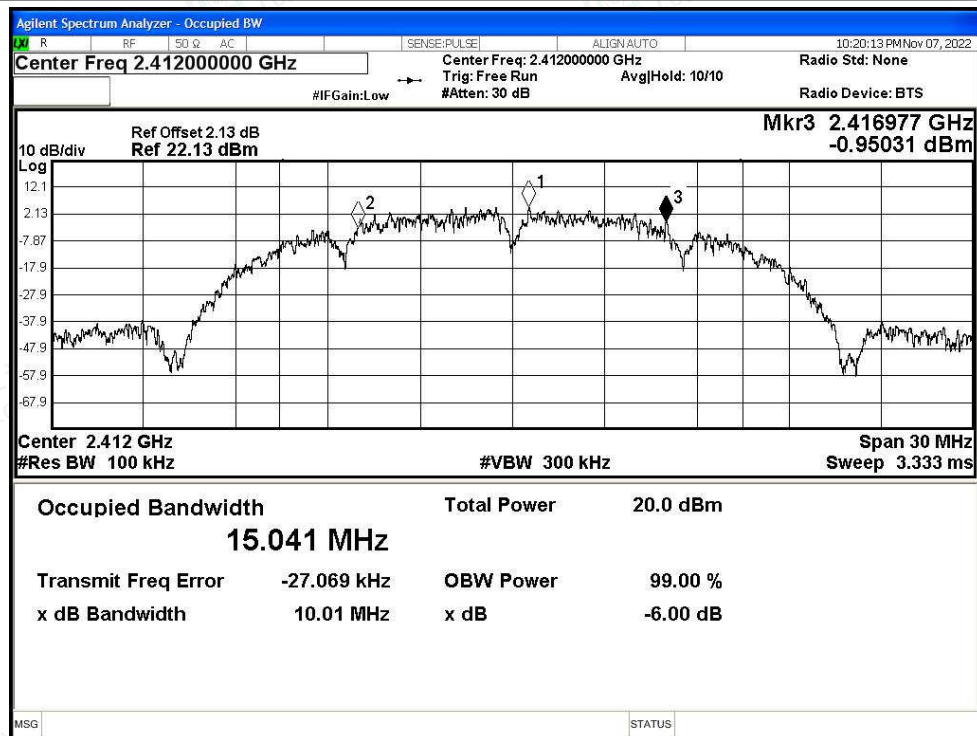
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 10.009                | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 9.936                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 9.849                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 16.491                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 16.478                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.398                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 17.628                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 17.778                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 17.721                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 36.44                 | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 36.394                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 36.431                | $\geq 0.5$                  | Pass    |



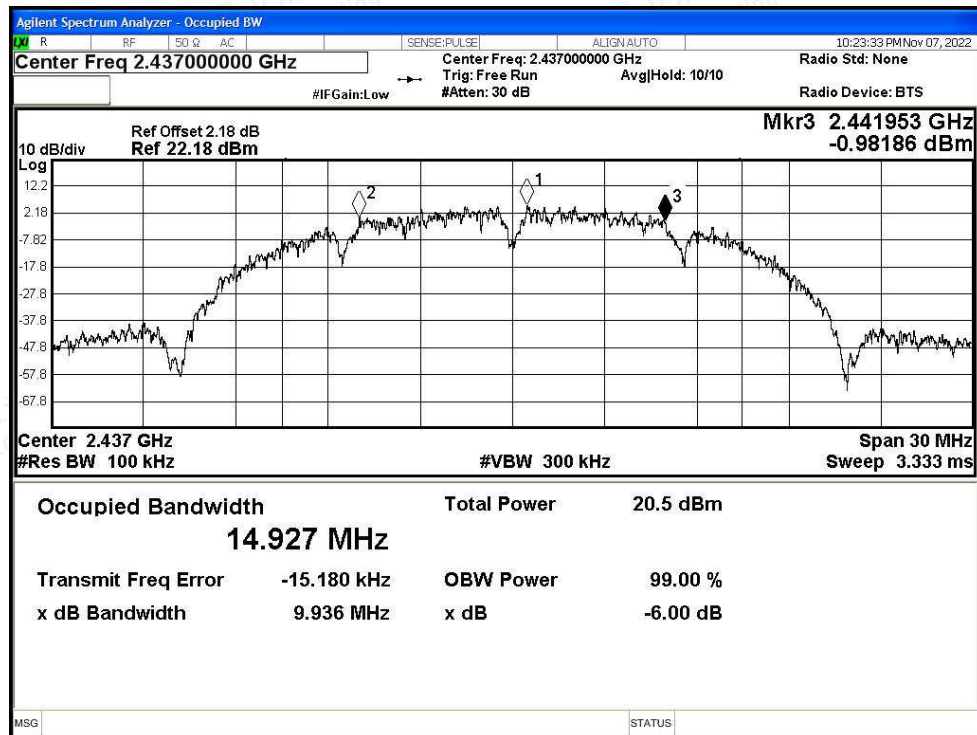


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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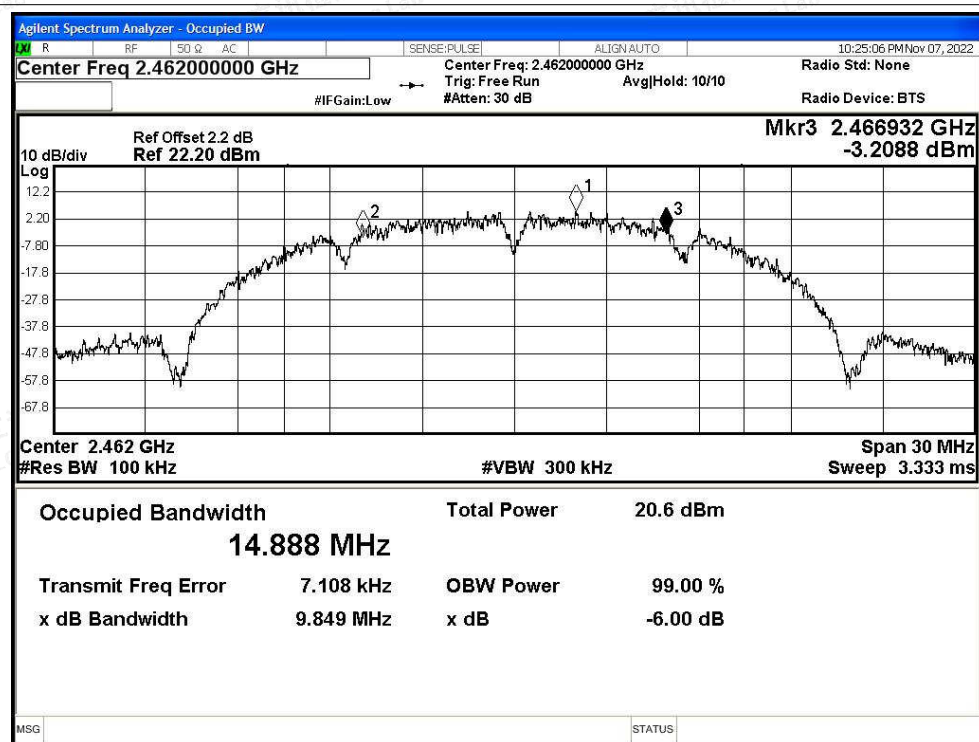
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

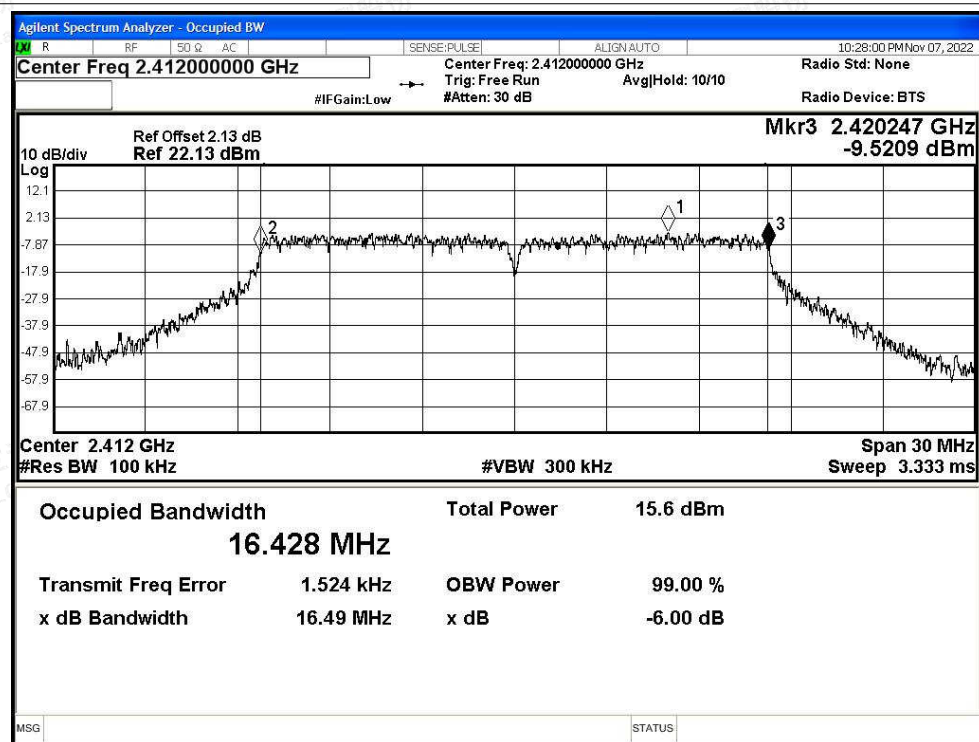
Scan code to check authenticity



## -6dB Bandwidth NVNT b 2462MHz Ant1



## -6dB Bandwidth NVNT g 2412MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

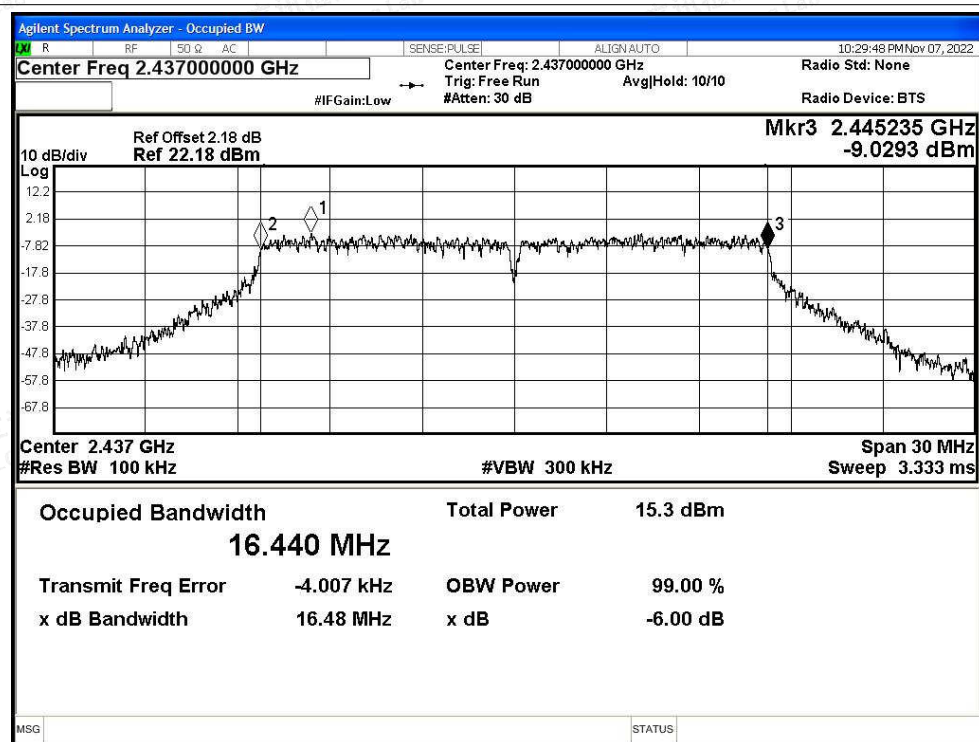
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

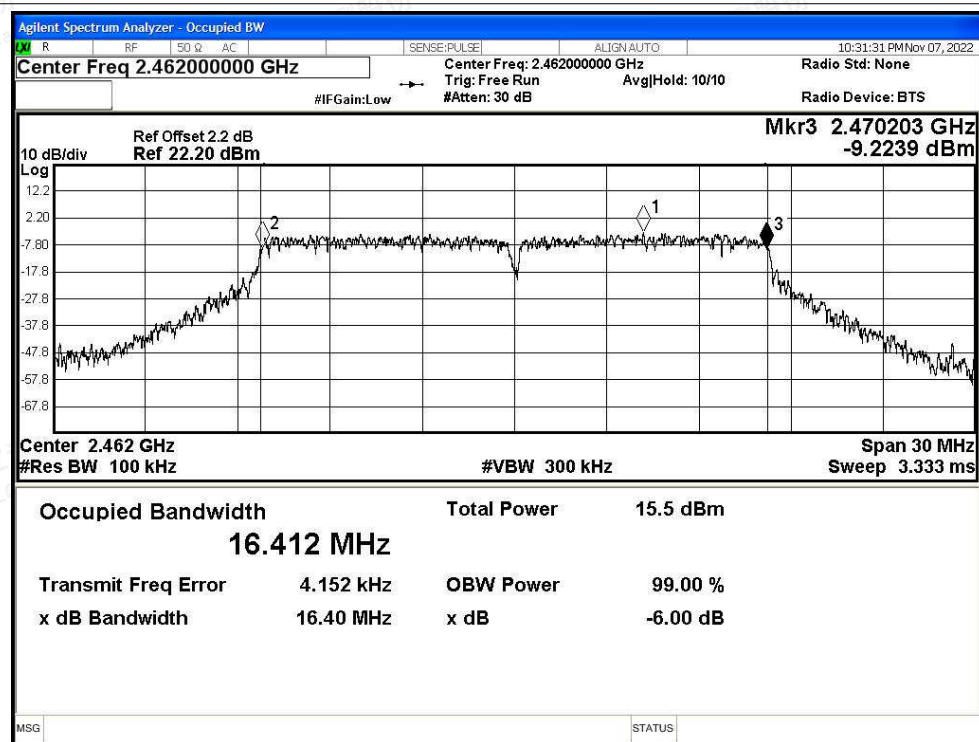
Scan code to check authenticity



-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

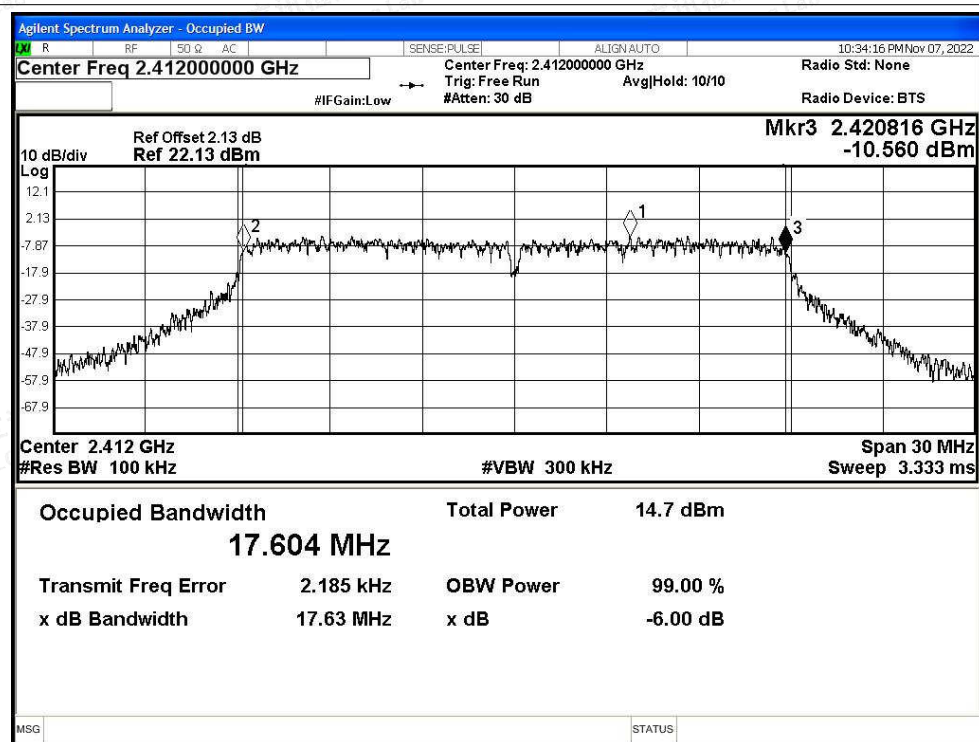
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

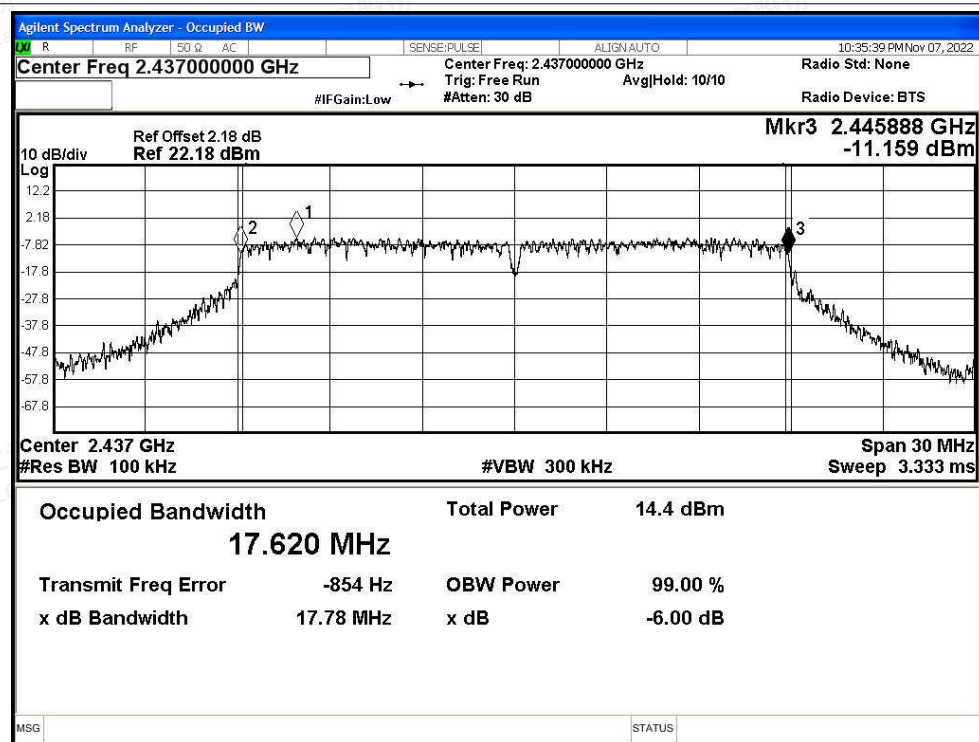
Scan code to check authenticity



## -6dB Bandwidth NVNT n20 2412MHz Ant1



## -6dB Bandwidth NVNT n20 2437MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

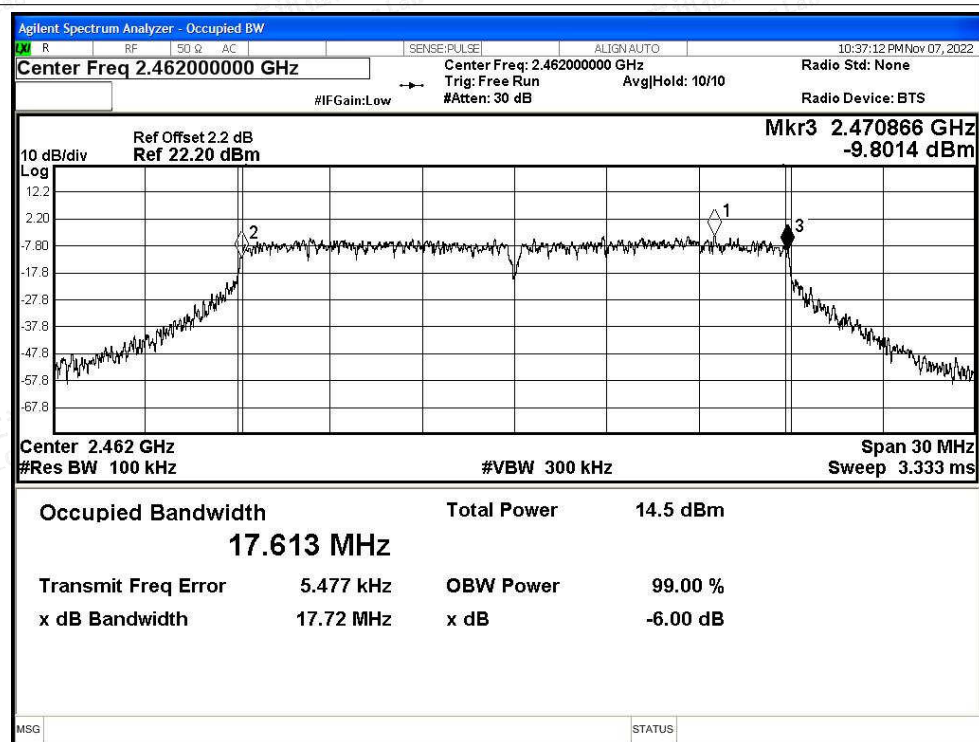
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

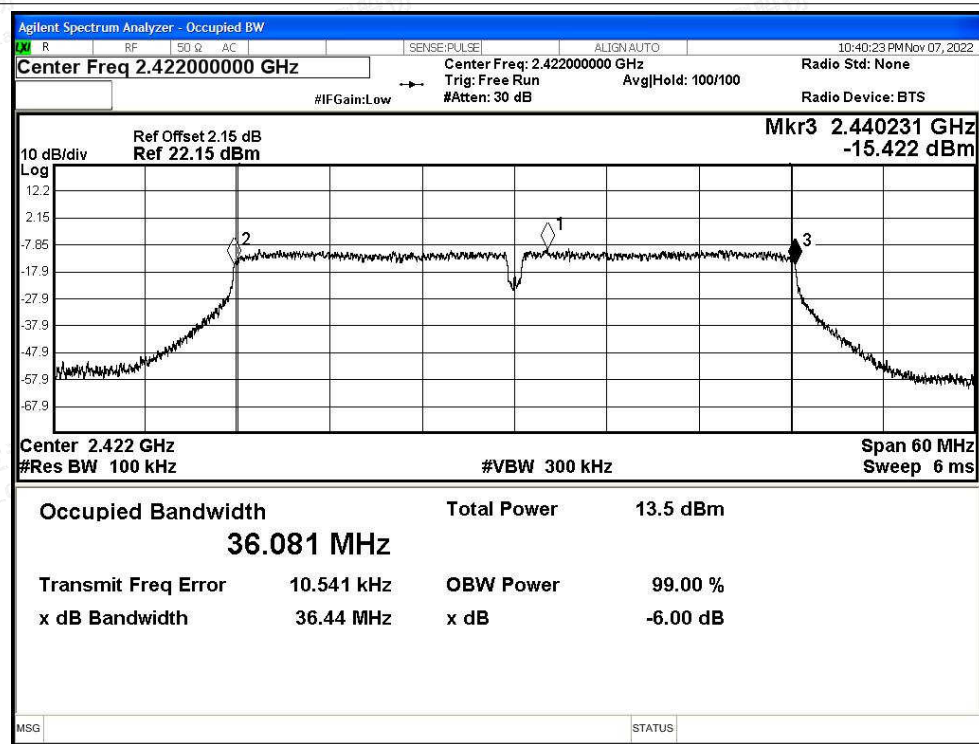
Scan code to check authenticity



## -6dB Bandwidth NVNT n20 2462MHz Ant1



## -6dB Bandwidth NVNT n40 2422MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

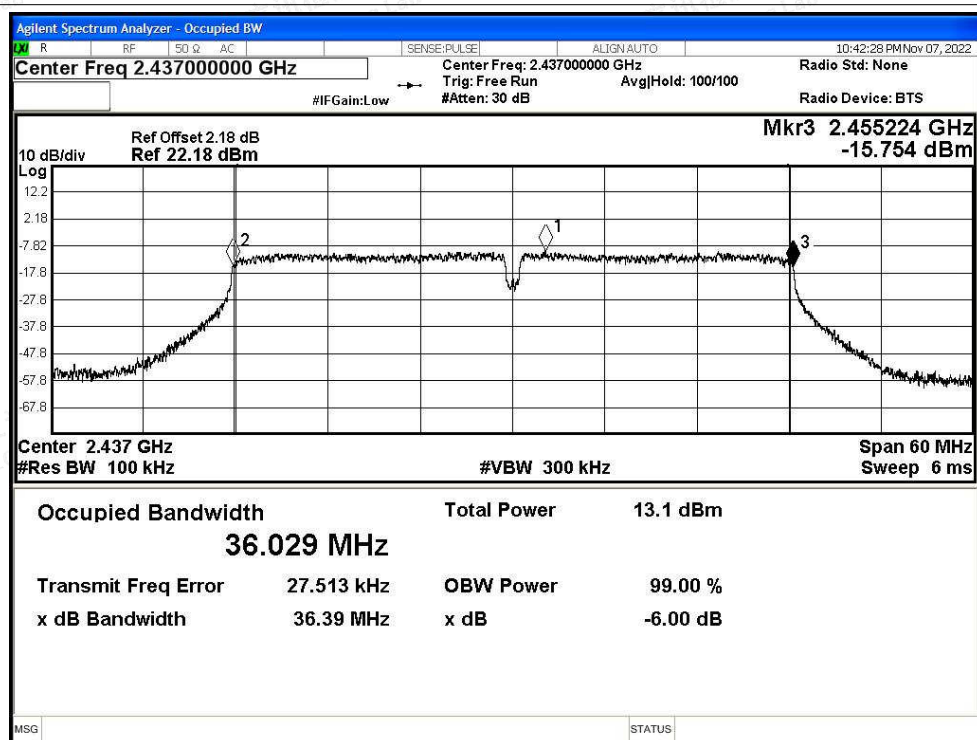
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

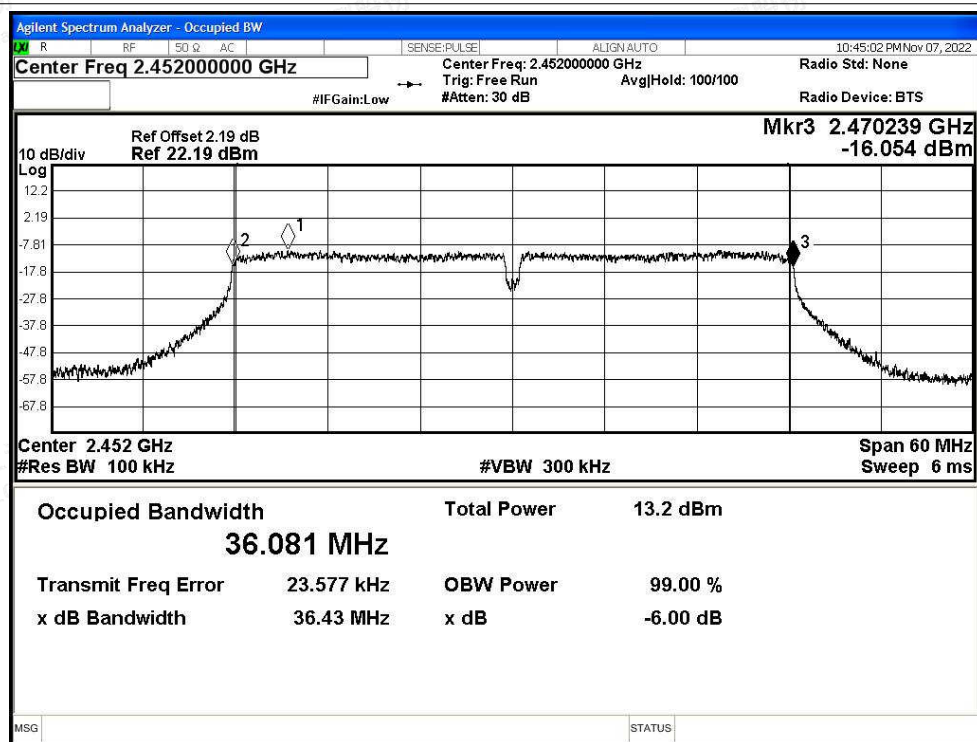
Scan code to check authenticity



## -6dB Bandwidth NVNT n40 2437MHz Ant1



## -6dB Bandwidth NVNT n40 2452MHz Ant1



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

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## C.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 16.68             | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 17.06             | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 17.08             | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 14.31             | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 14.33             | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 14.19             | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 13.86             | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 13.42             | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 12.58             | 30          | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 12.34             | 30          | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 12.04             | 30          | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 11.99             | 30          | Pass    |





### C.3 Maximum Power Spectral Density Level

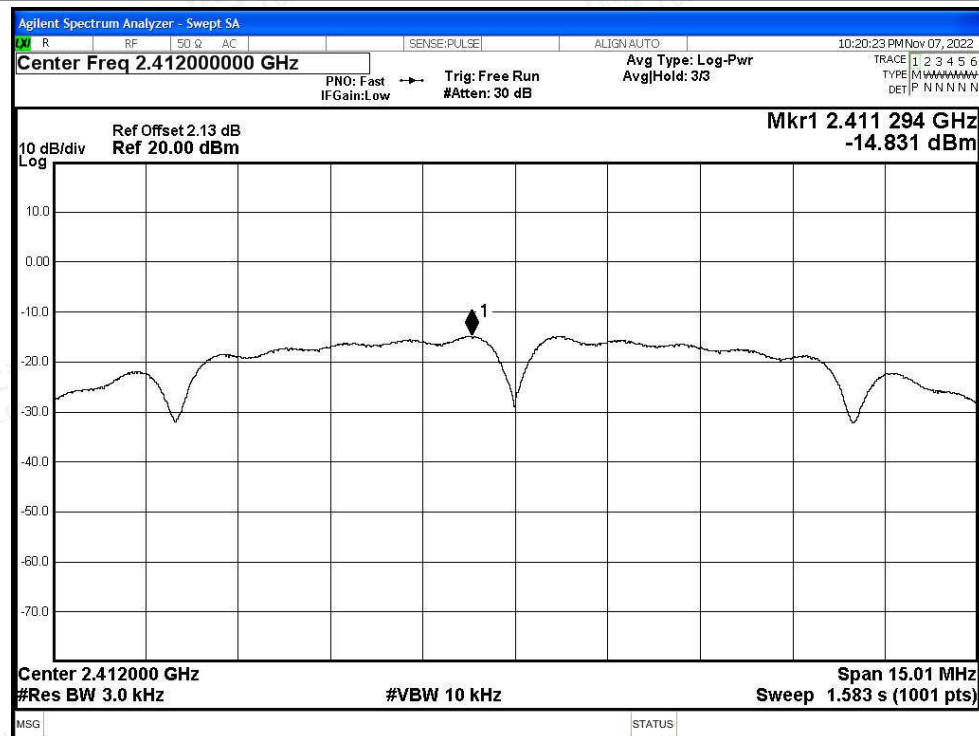
| Condition | Mode | Frequency (MHz) | Antenna | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|----------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -14.83               | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -14.44               | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -14.35               | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -17.3                | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -17.11               | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -16.71               | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -16.33               | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -17.31               | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -20.22               | 8                | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -21.42               | 8                | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -22.97               | 8                | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -23.38               | 8                | Pass    |



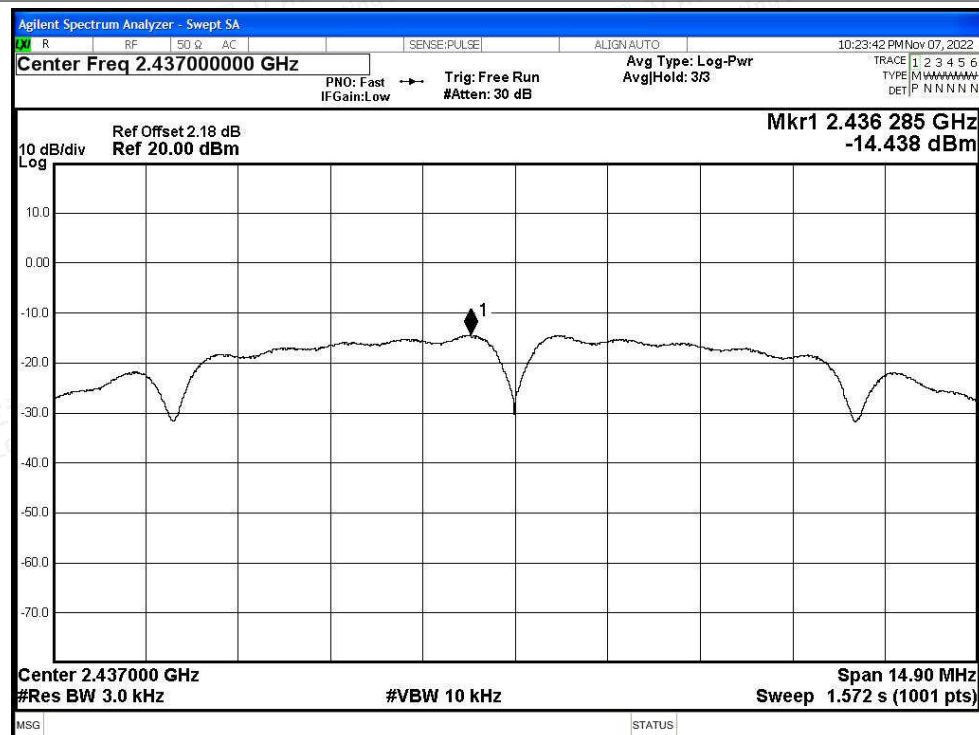


## Test Graphs

## PSD NVNT b 2412MHz Ant1

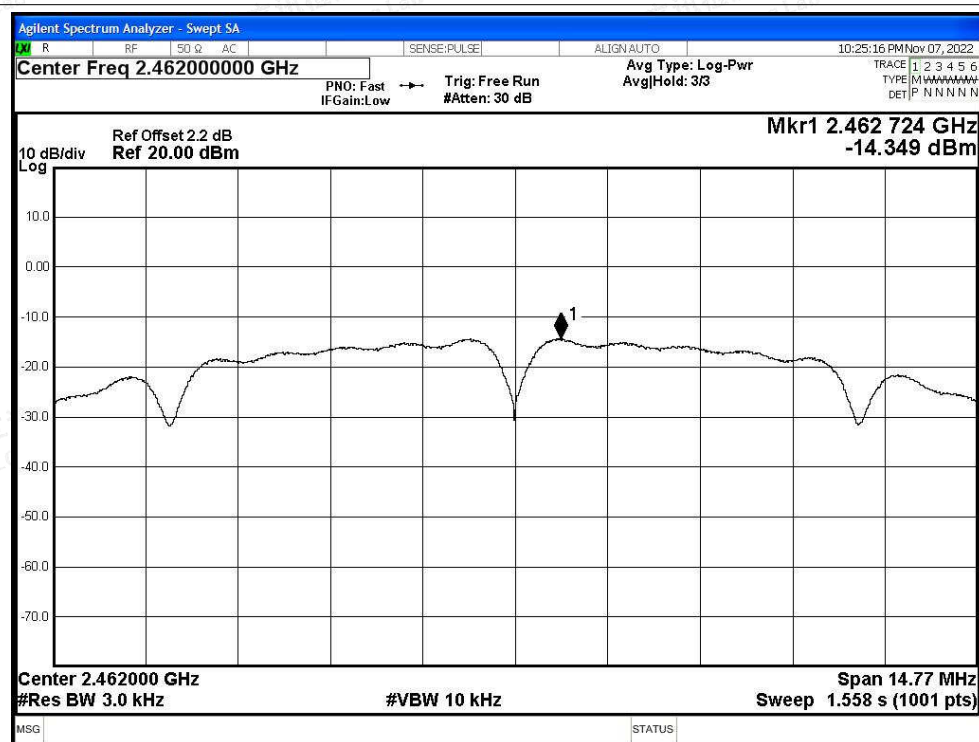


## PSD NVNT b 2437MHz Ant1

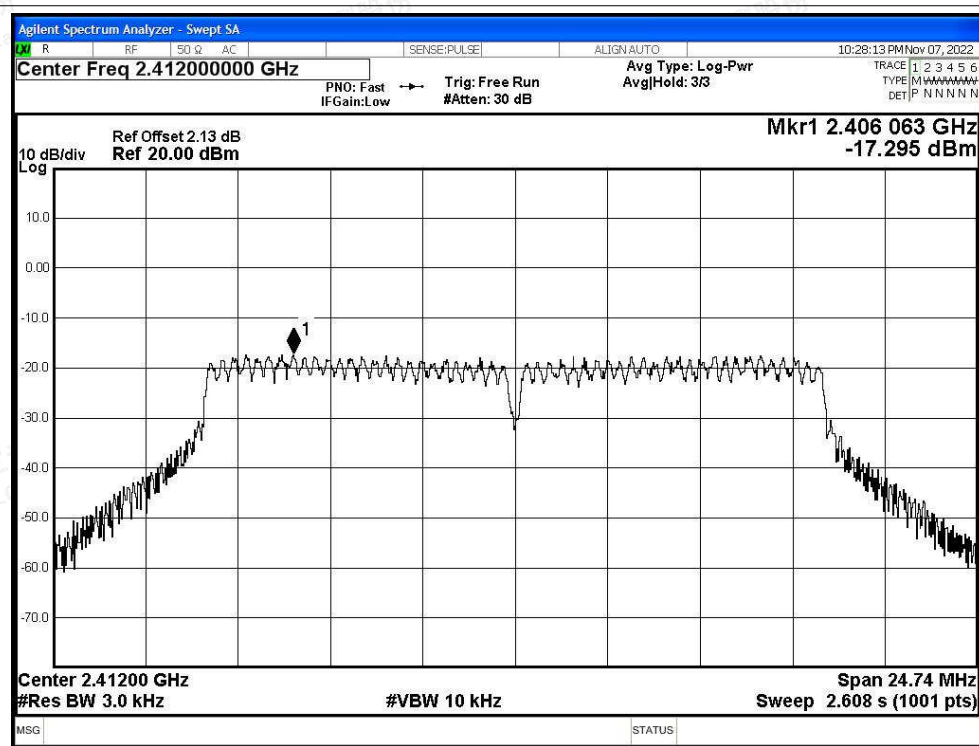




PSD NVNT b 2462MHz Ant1

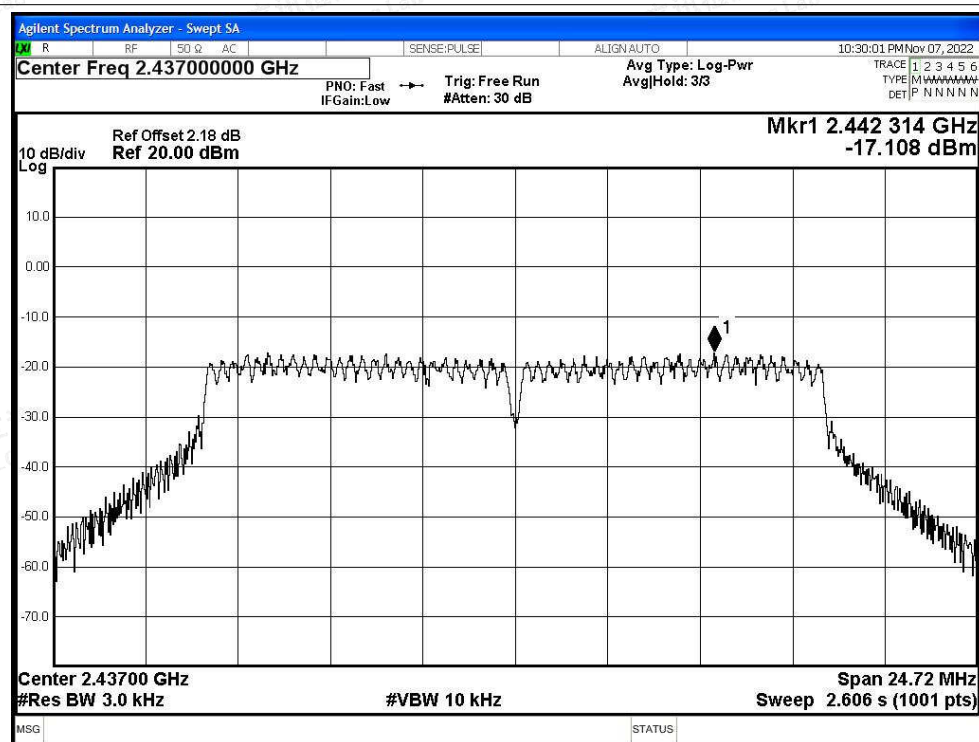


PSD NVNT g 2412MHz Ant1

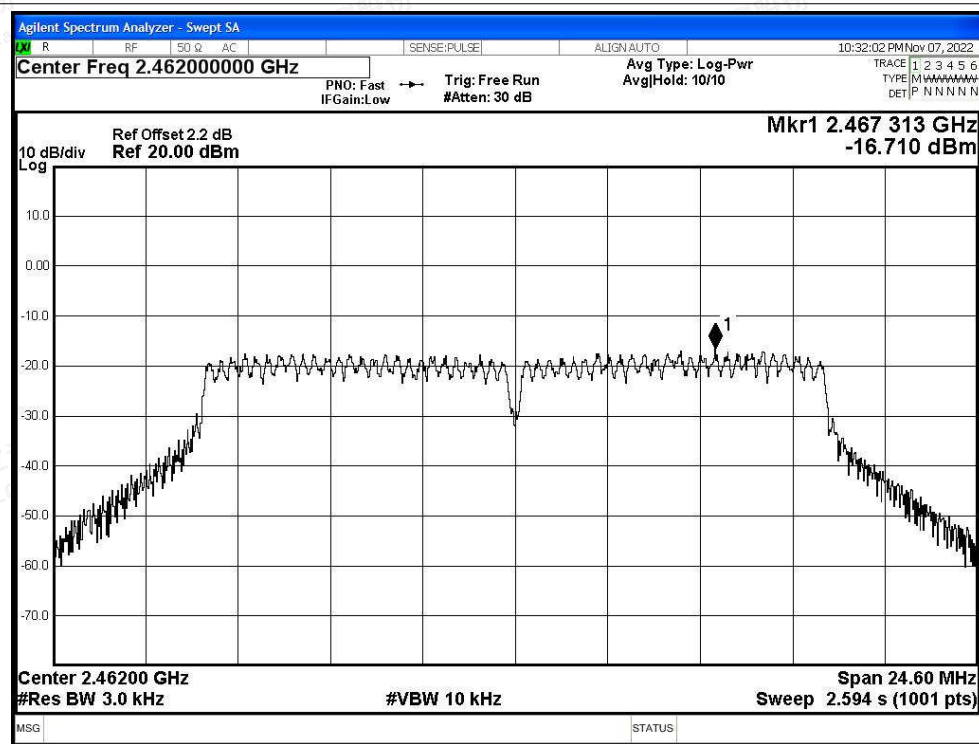


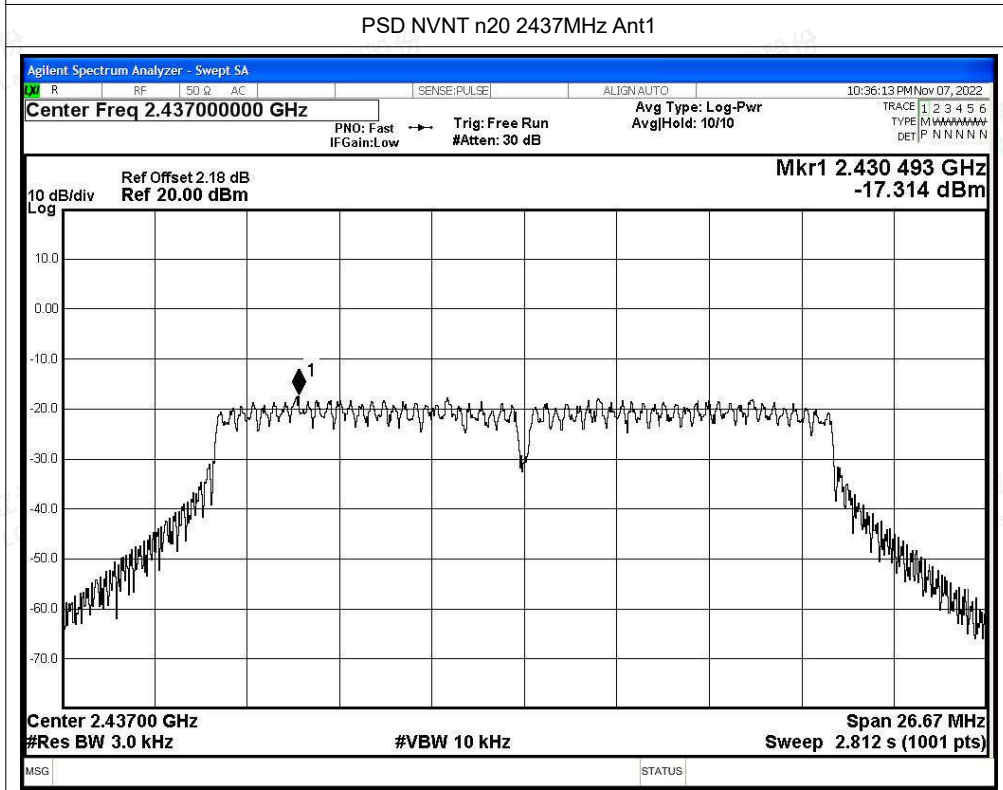
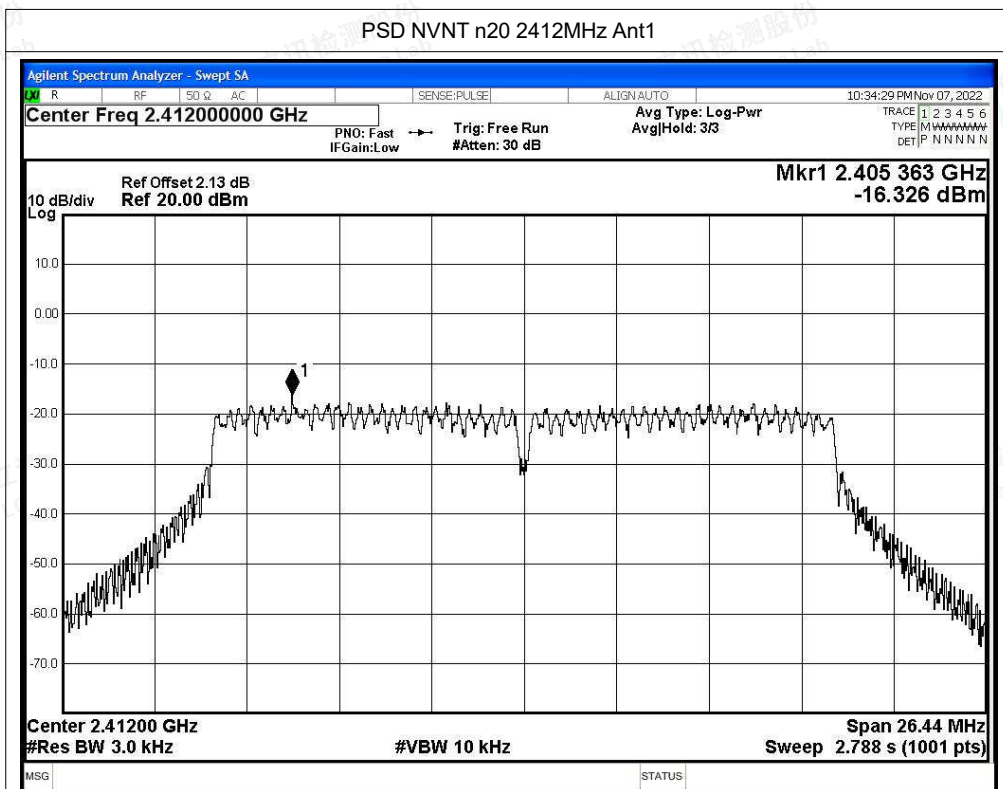


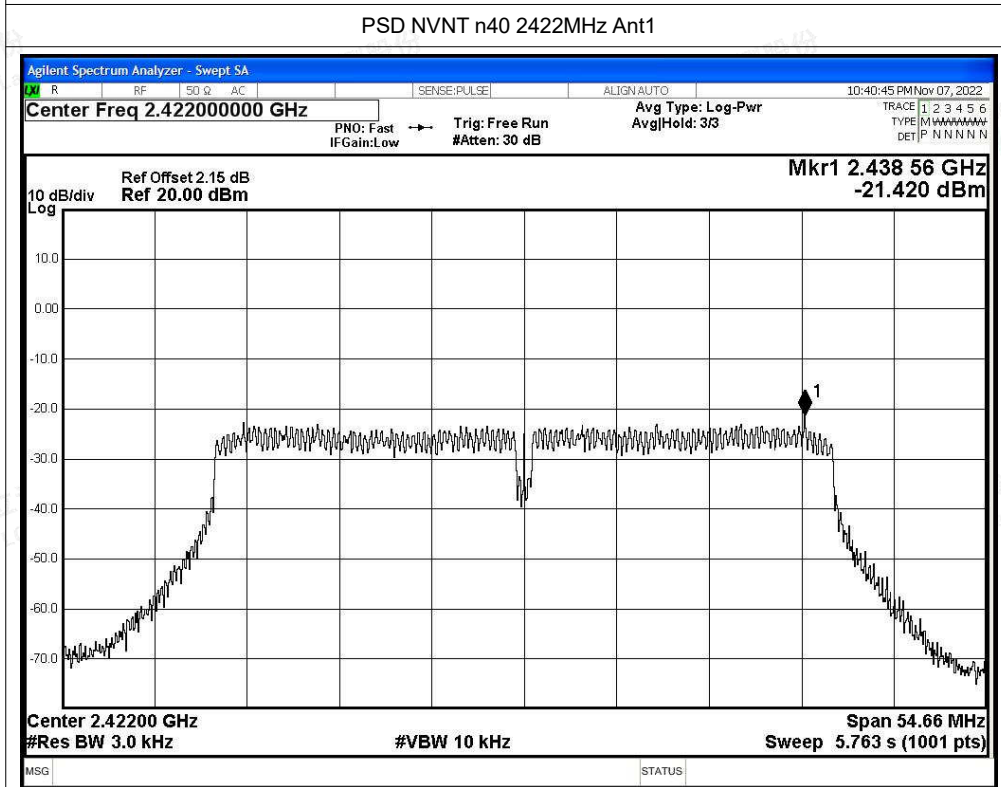
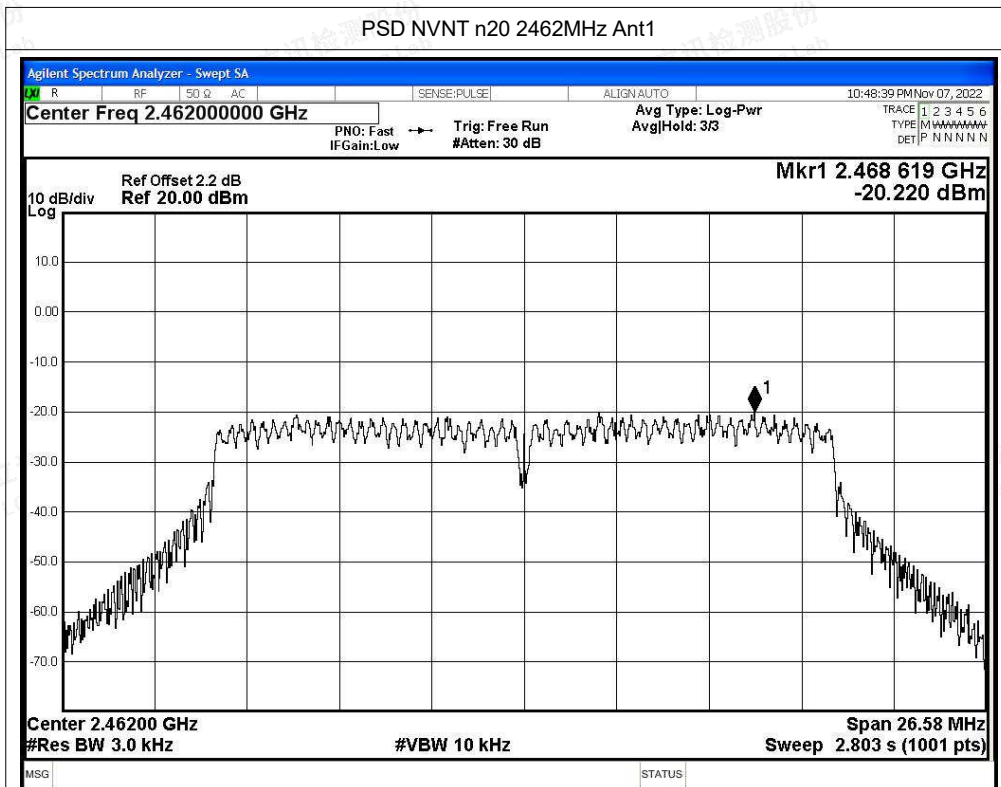
PSD NVNT g 2437MHz Ant1

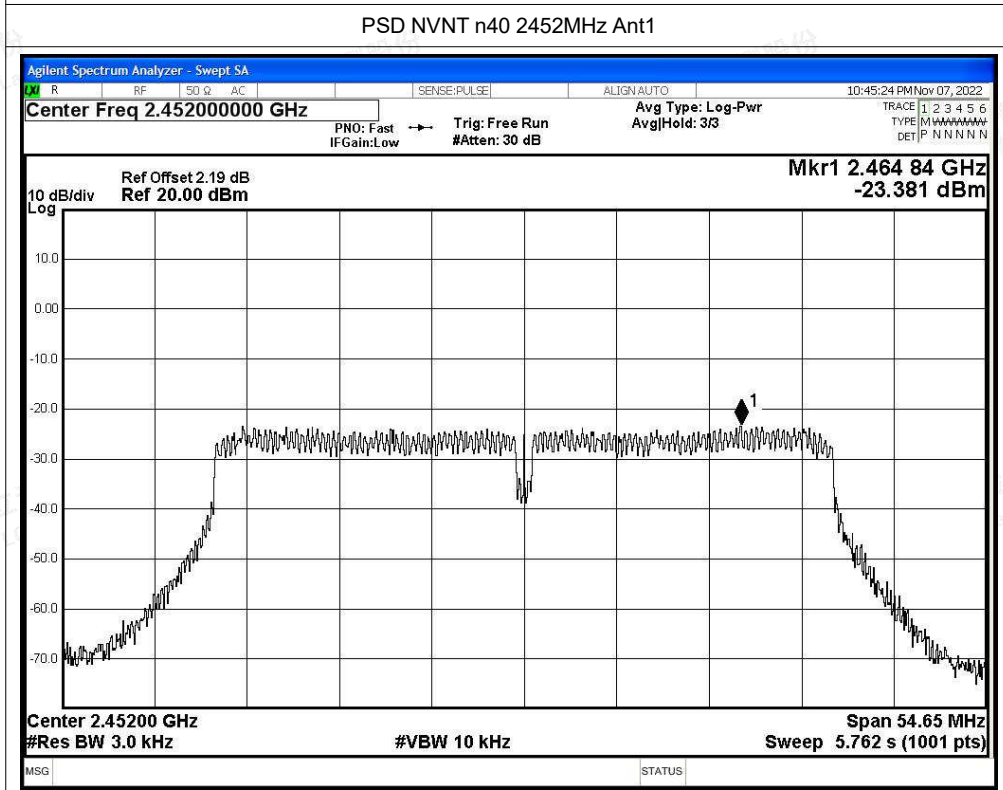
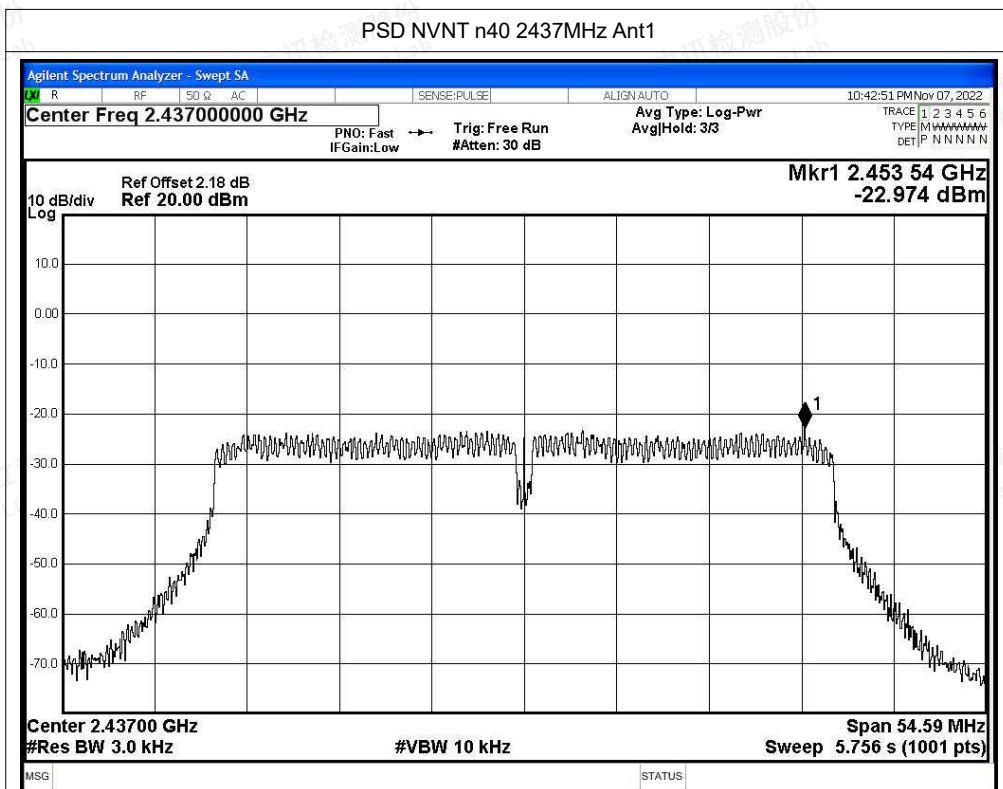


PSD NVNT g 2462MHz Ant1











## C.4 Band Edge

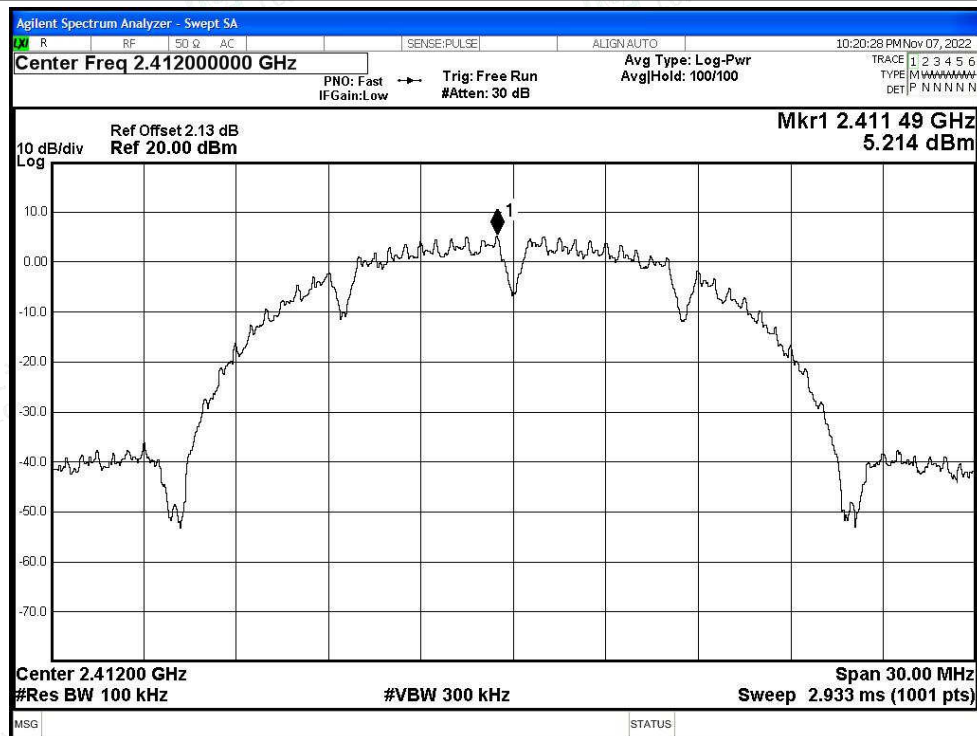
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -42.92          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -61.18          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -38.87          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -51.51          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -36.22          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -51.98          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -34.25          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -45             | -20         | Pass    |



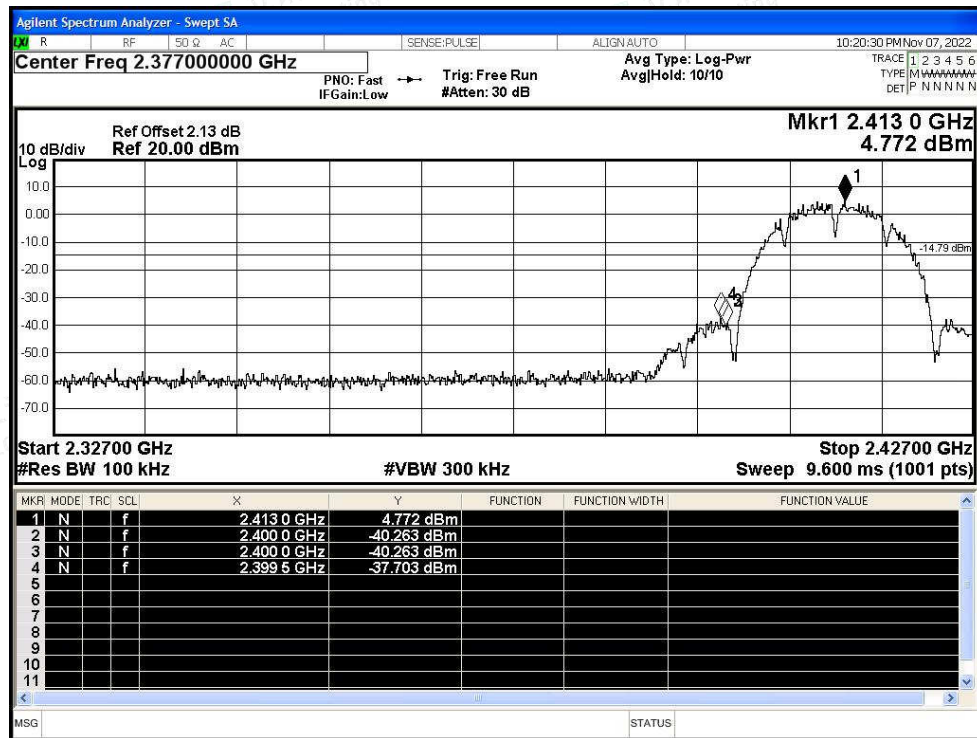


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref



## Band Edge NVNT b 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

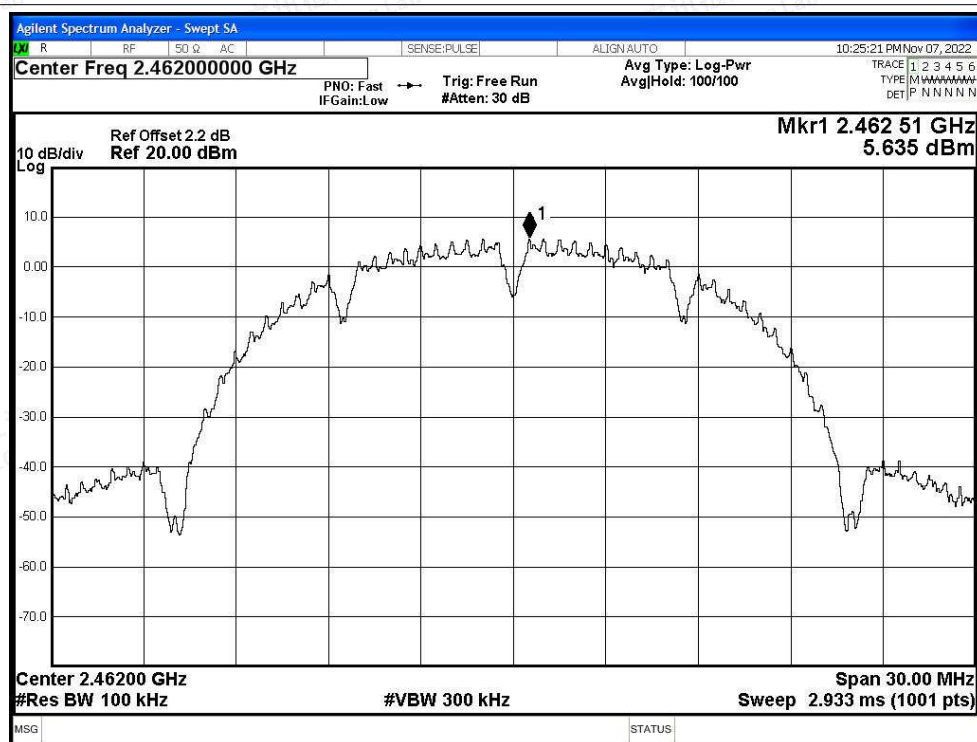
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

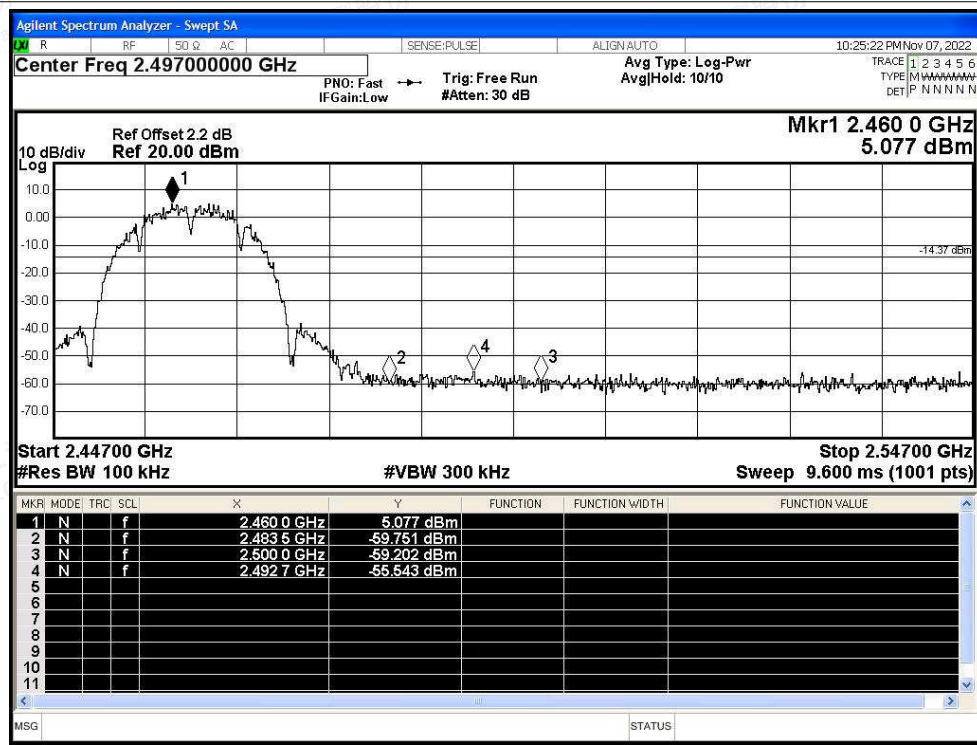
Scan code to check authenticity



## Band Edge NVNT b 2462MHz Ant1 Ref



## Band Edge NVNT b 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

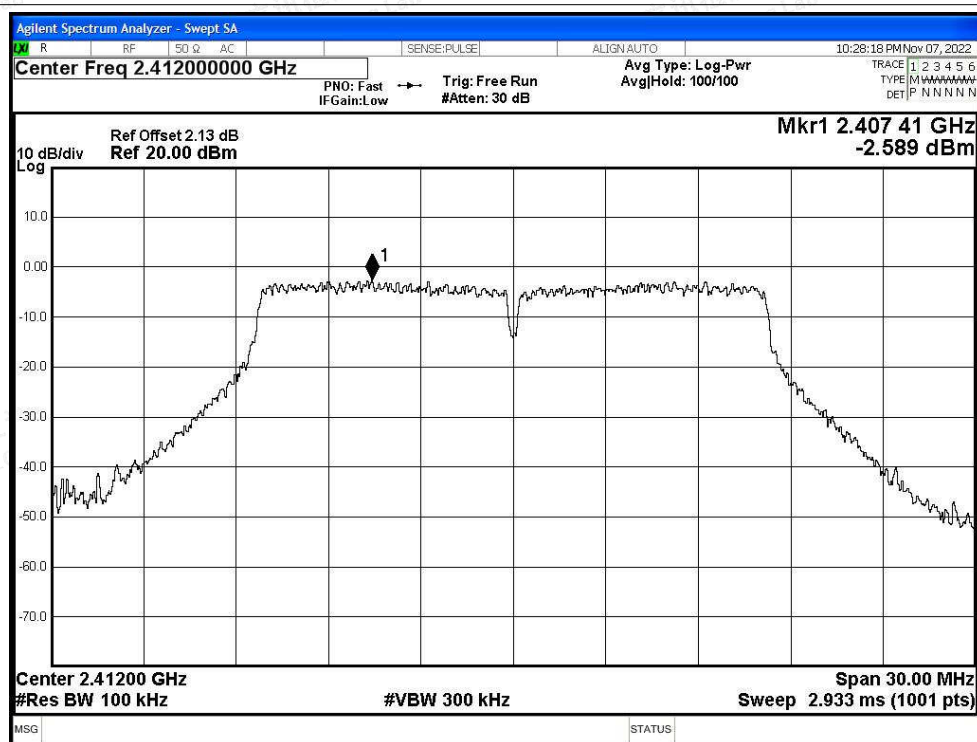
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

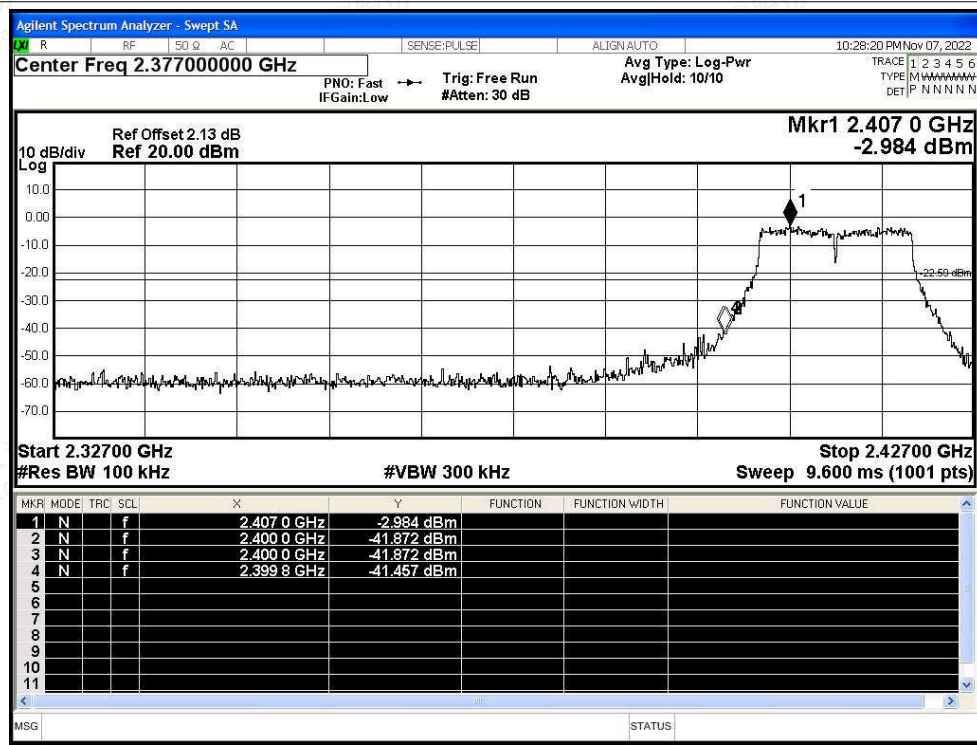
Scan code to check authenticity



## Band Edge NVNT g 2412MHz Ant1 Ref

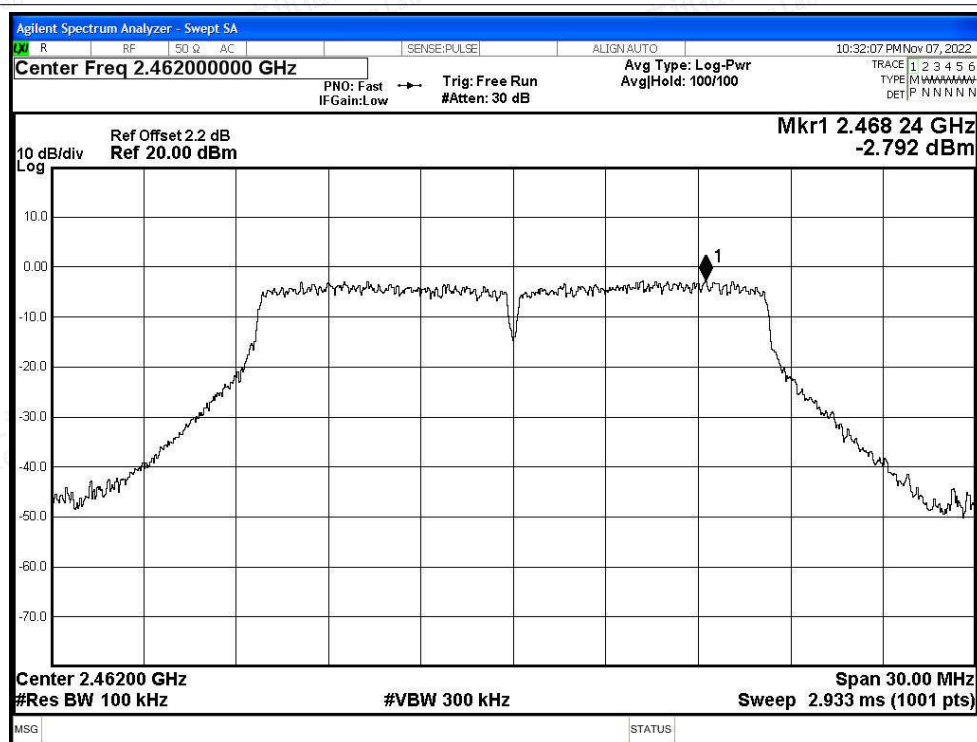


## Band Edge NVNT g 2412MHz Ant1 Emission

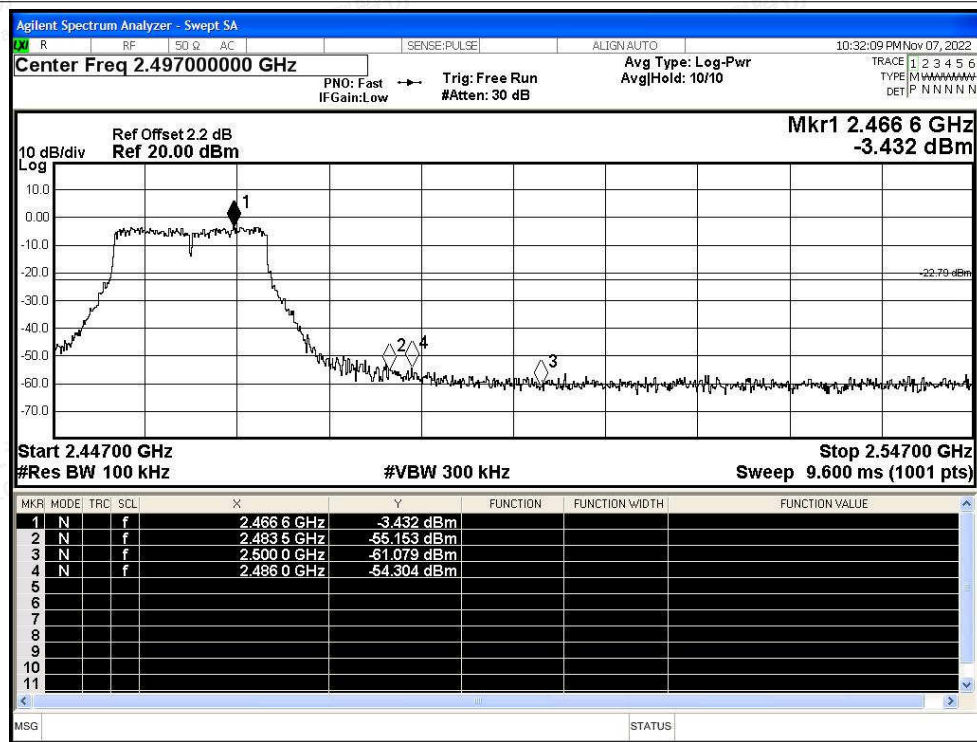




## Band Edge NVNT g 2462MHz Ant1 Ref

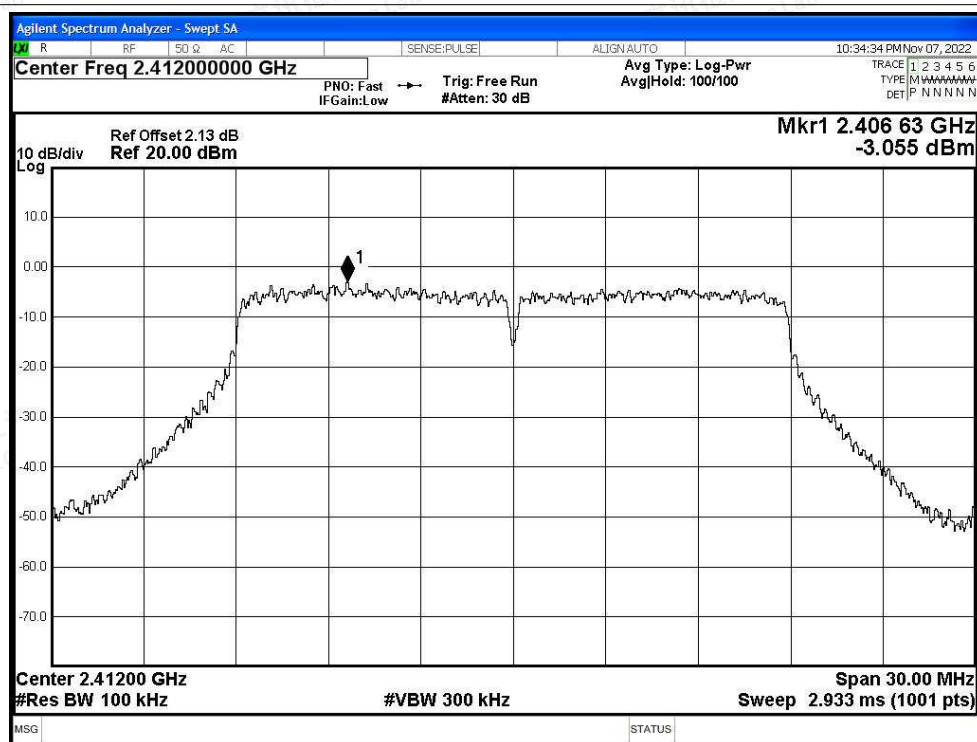


## Band Edge NVNT g 2462MHz Ant1 Emission

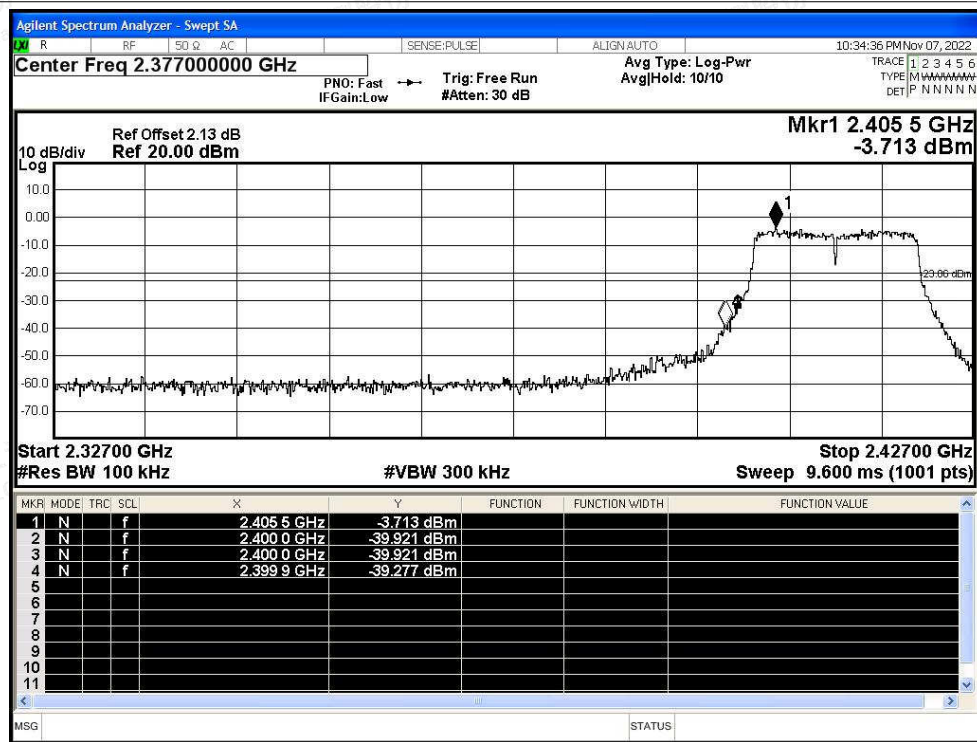




## Band Edge NVNT n20 2412MHz Ant1 Ref



## Band Edge NVNT n20 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

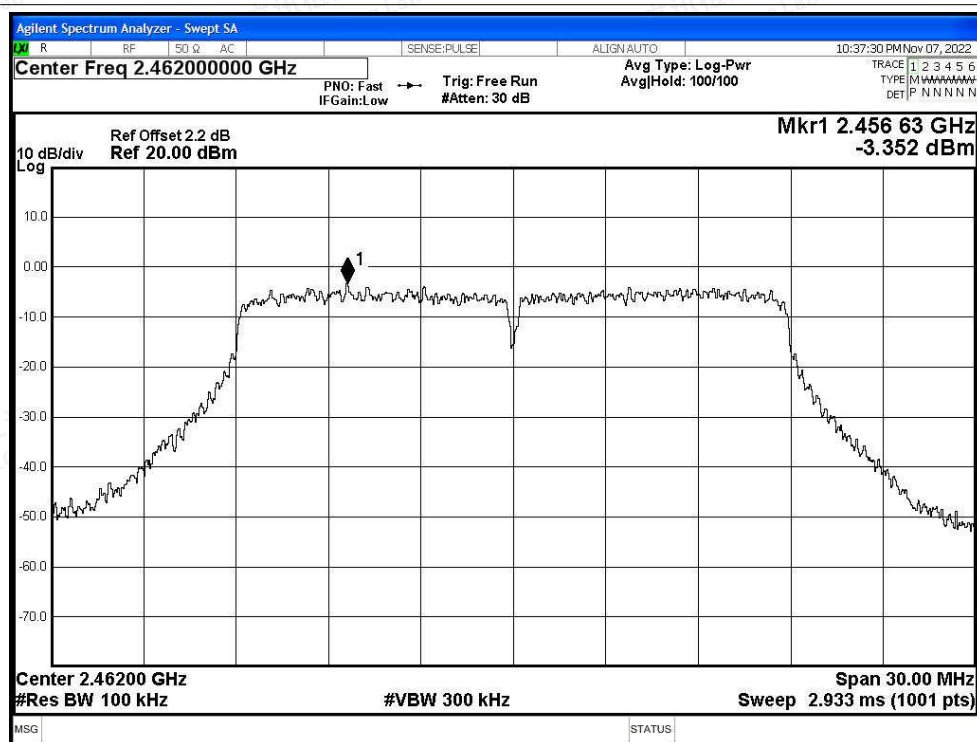
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

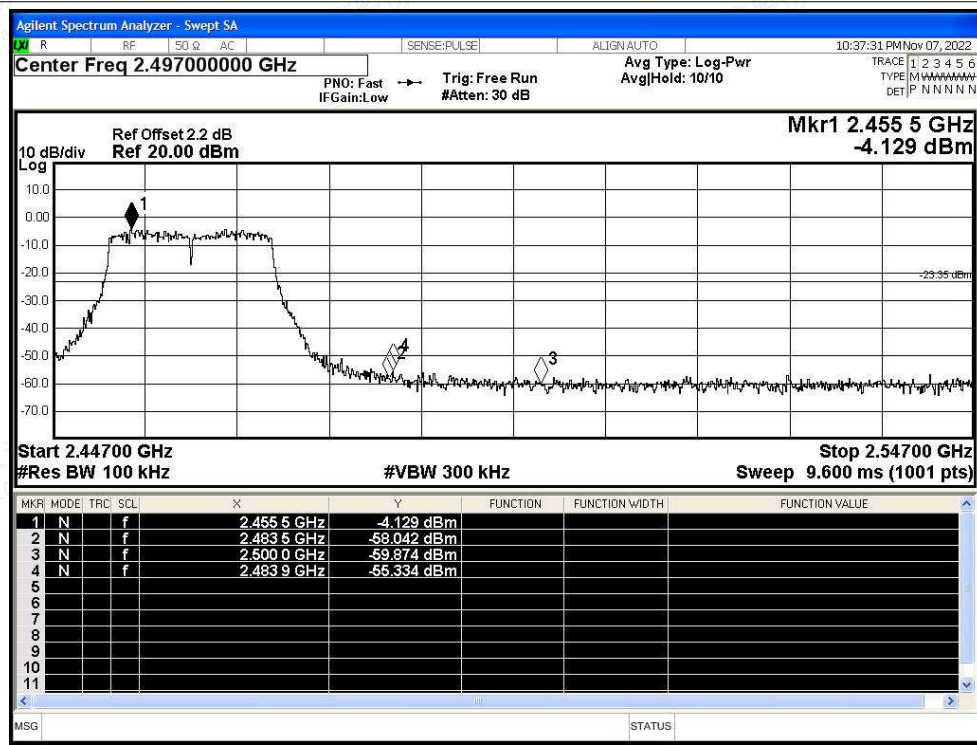
Scan code to check authenticity



## Band Edge NVNT n20 2462MHz Ant1 Ref



## Band Edge NVNT n20 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

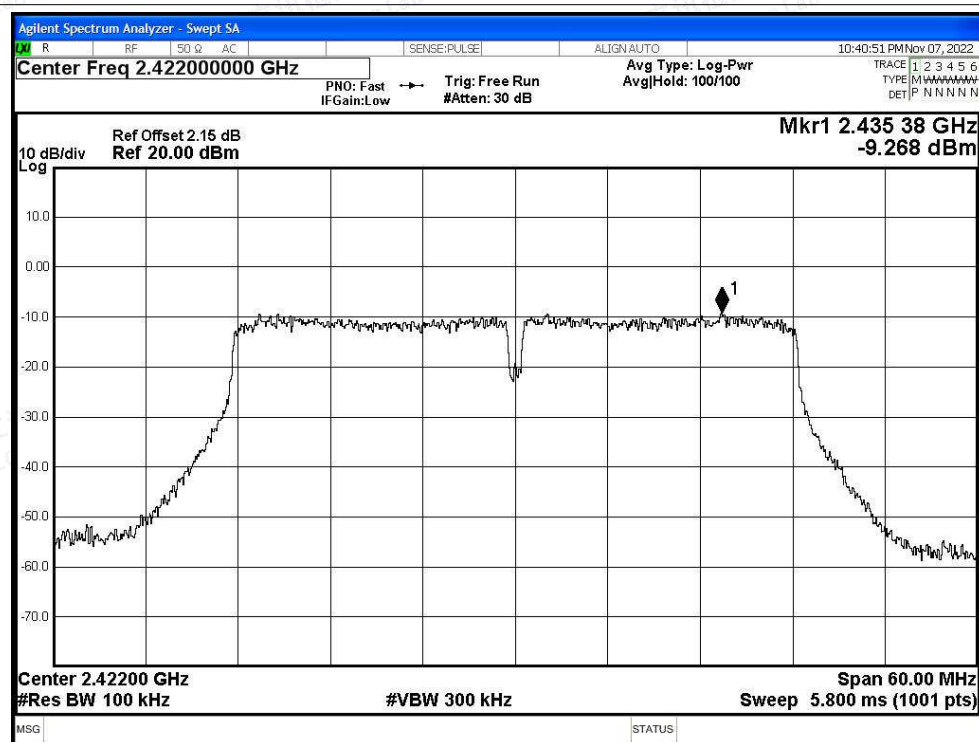
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

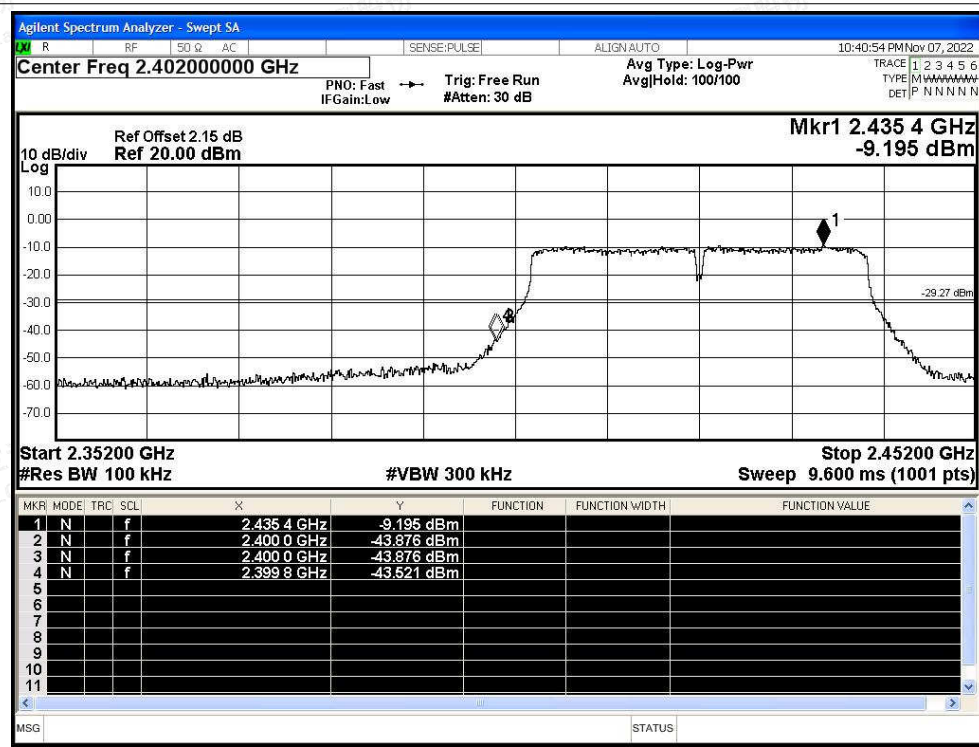
Scan code to check authenticity



## Band Edge NVNT n40 2422MHz Ant1 Ref

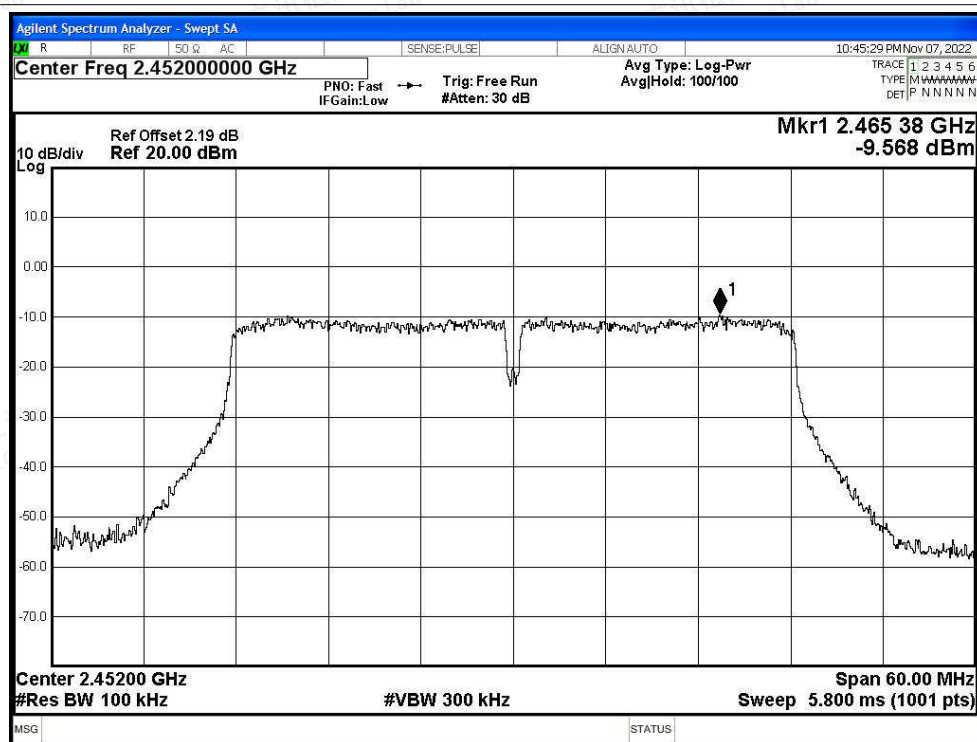


## Band Edge NVNT n40 2422MHz Ant1 Emission

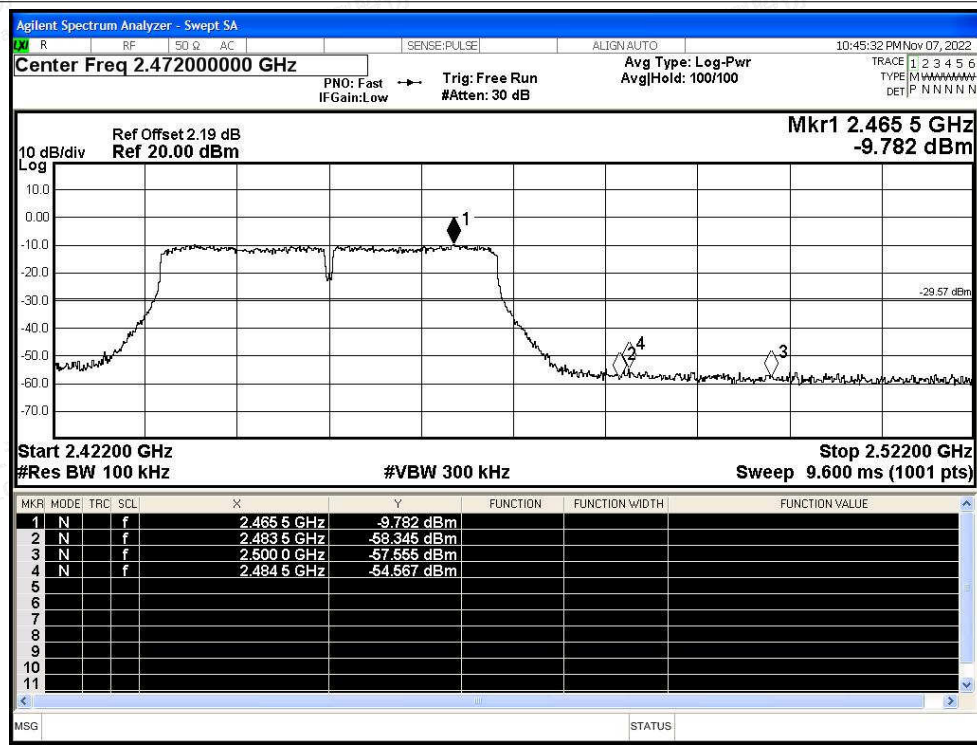




## Band Edge NVNT n40 2452MHz Ant1 Ref



## Band Edge NVNT n40 2452MHz Ant1 Emission





## C.5 Conducted RF Spurious Emission

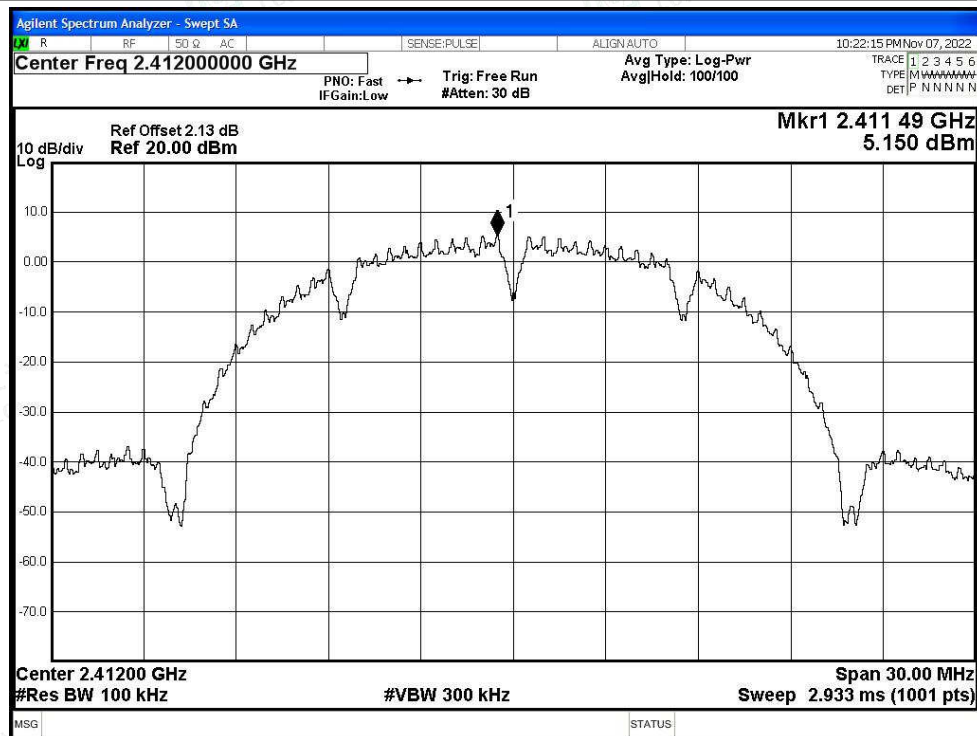
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -46.96          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -50.73          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -50.54          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -43.18          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -42.92          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -42.67          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -43.13          | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -44.55          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -42.59          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -36.33          | -20         | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -35.08          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -35.73          | -20         | Pass    |



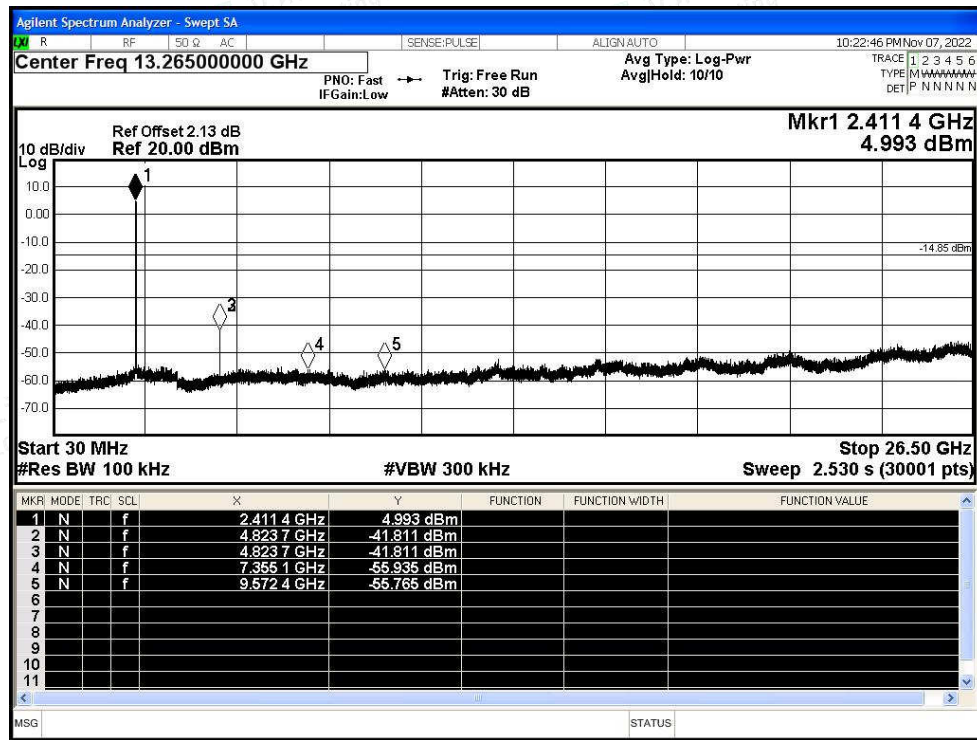


## Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

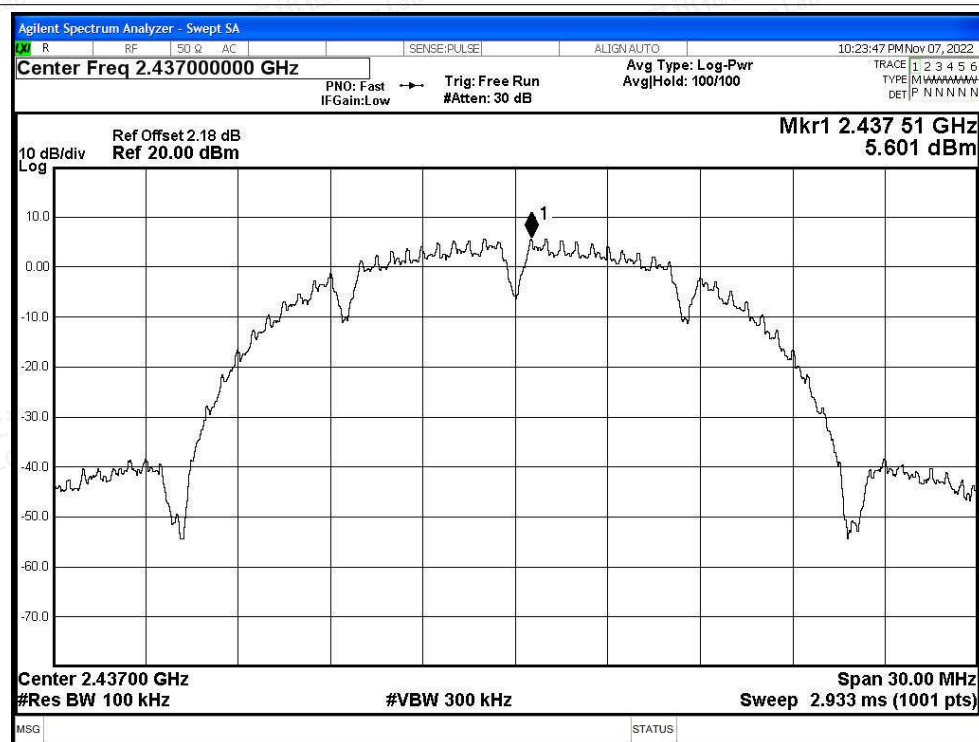
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

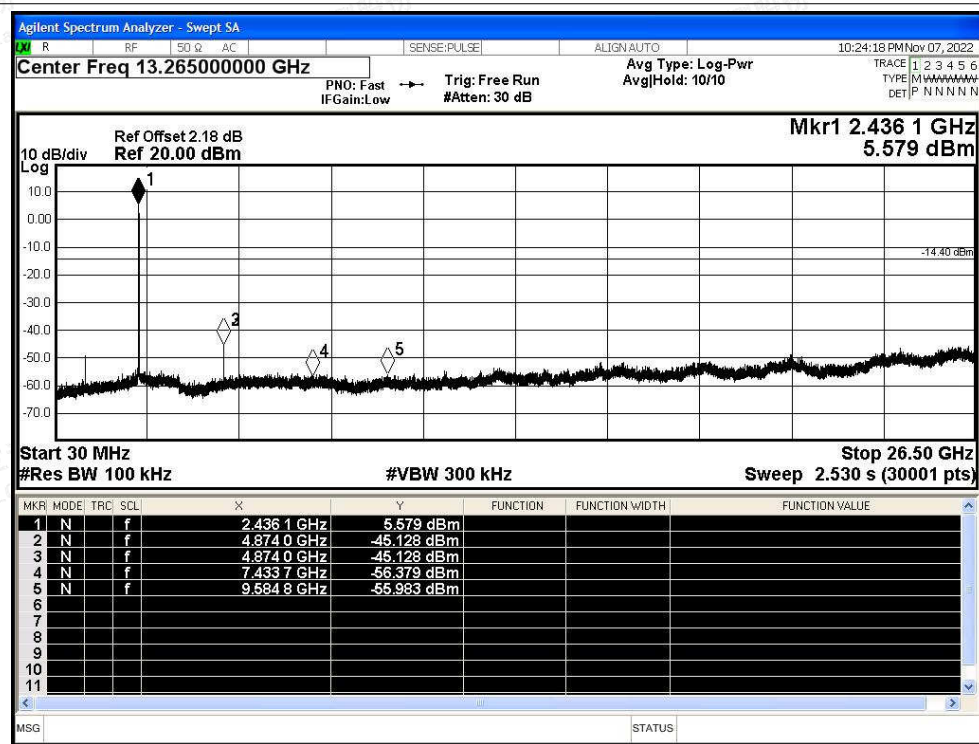
Scan code to check authenticity



## Tx. Spurious NVNT b 2437MHz Ant1 Ref

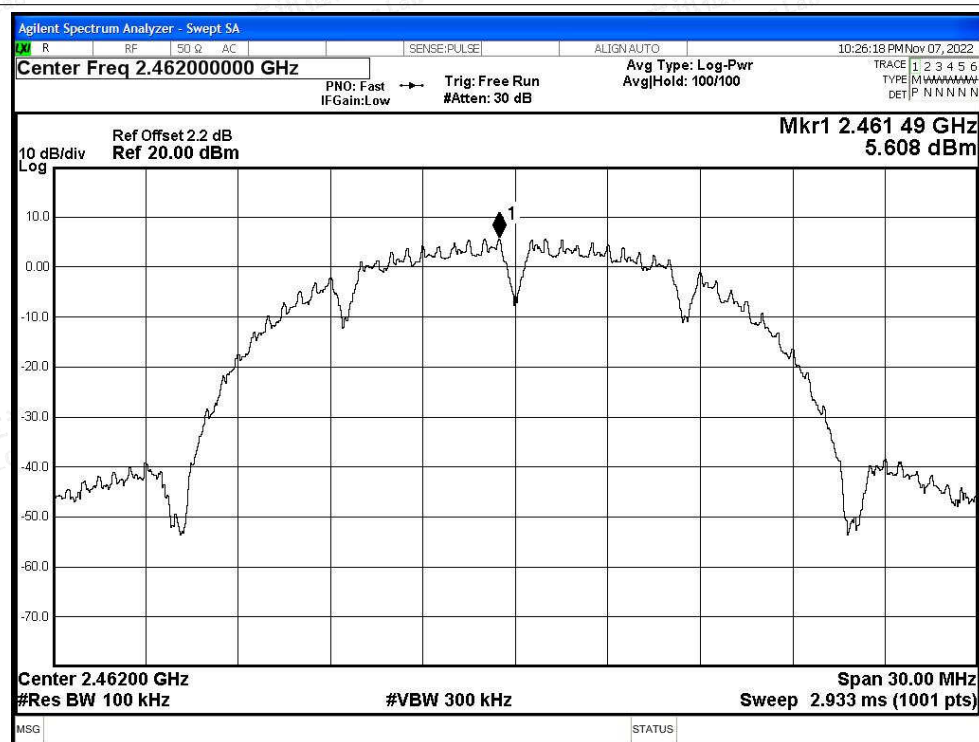


## Tx. Spurious NVNT b 2437MHz Ant1 Emission

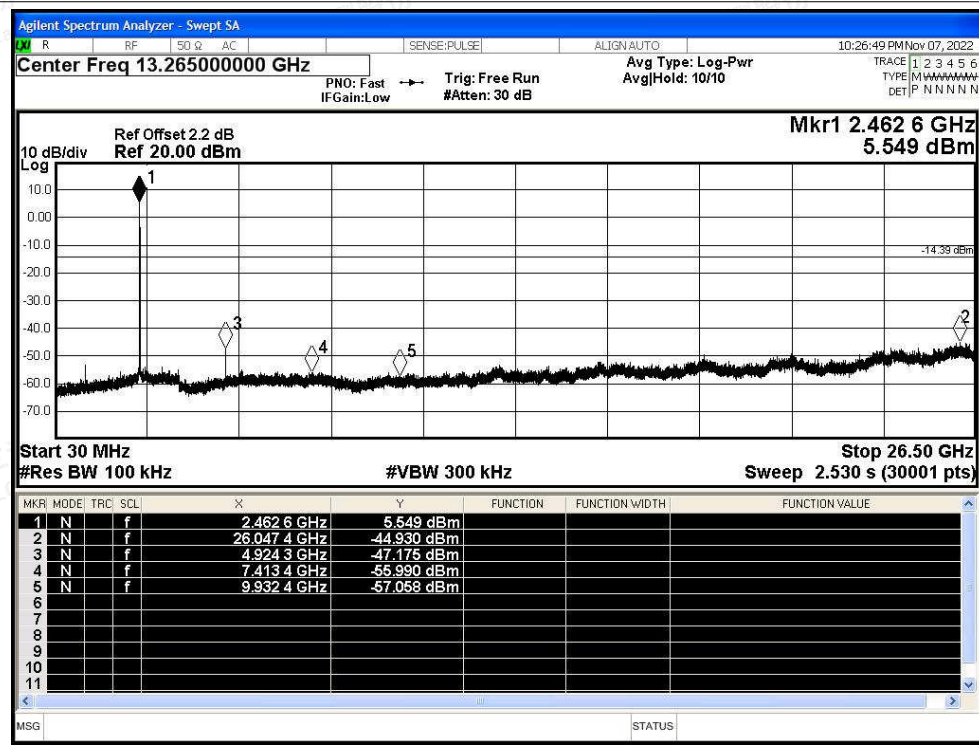




## Tx. Spurious NVNT b 2462MHz Ant1 Ref



## Tx. Spurious NVNT b 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

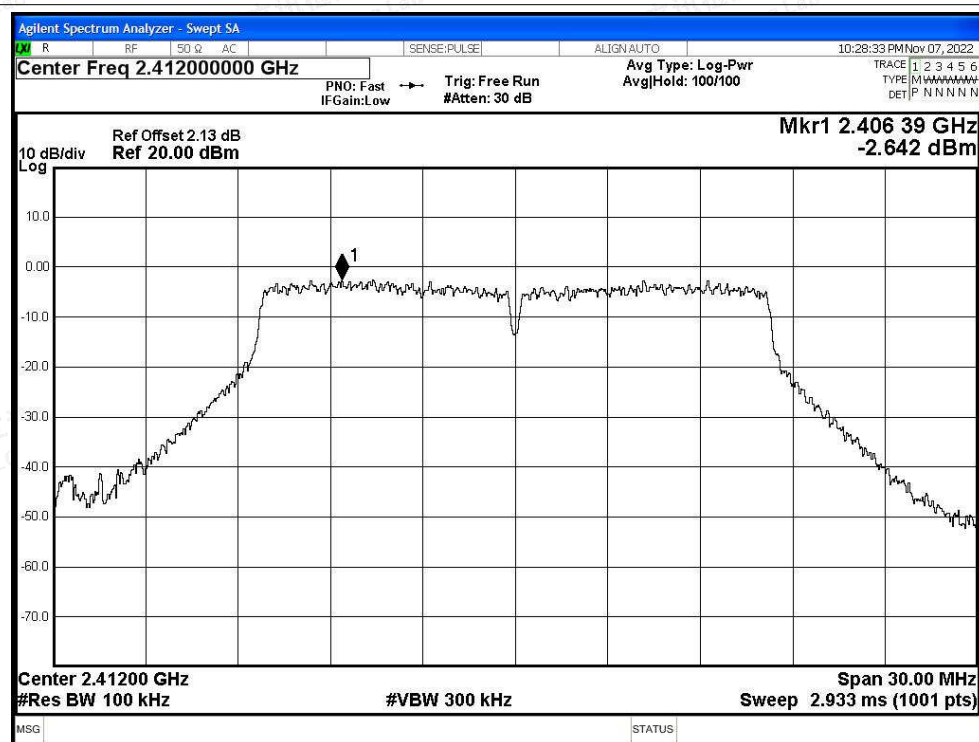
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

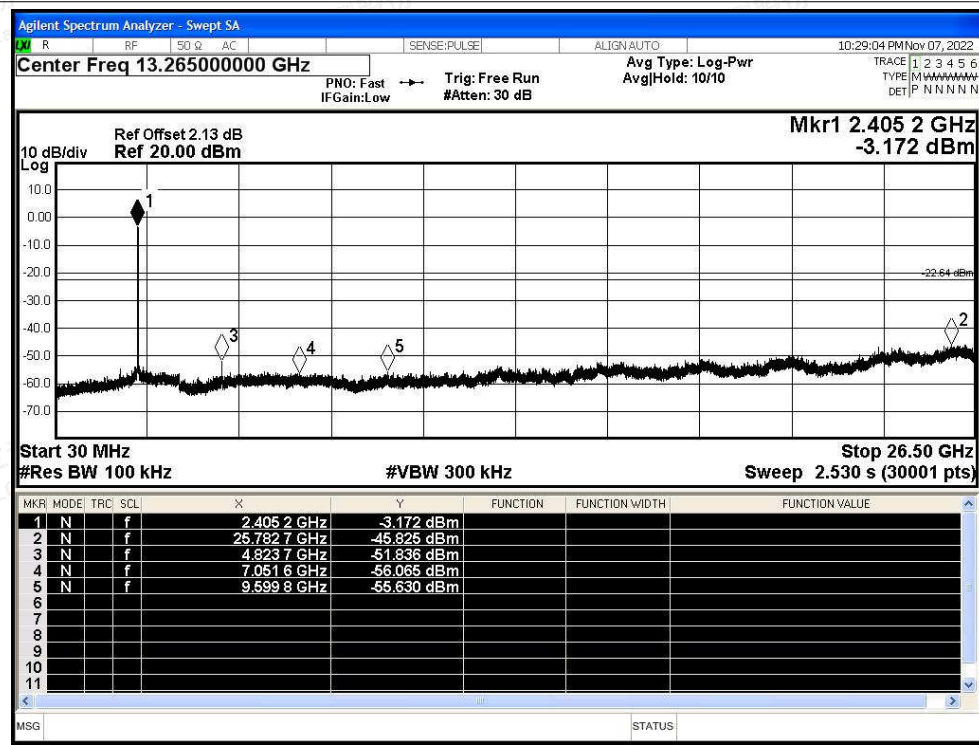
Scan code to check authenticity



## Tx. Spurious NVNT g 2412MHz Ant1 Ref



## Tx. Spurious NVNT g 2412MHz Ant1 Emission



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