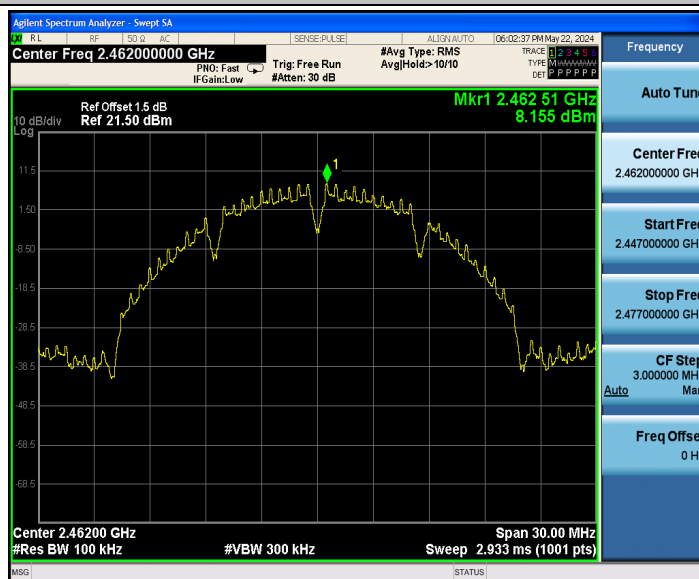
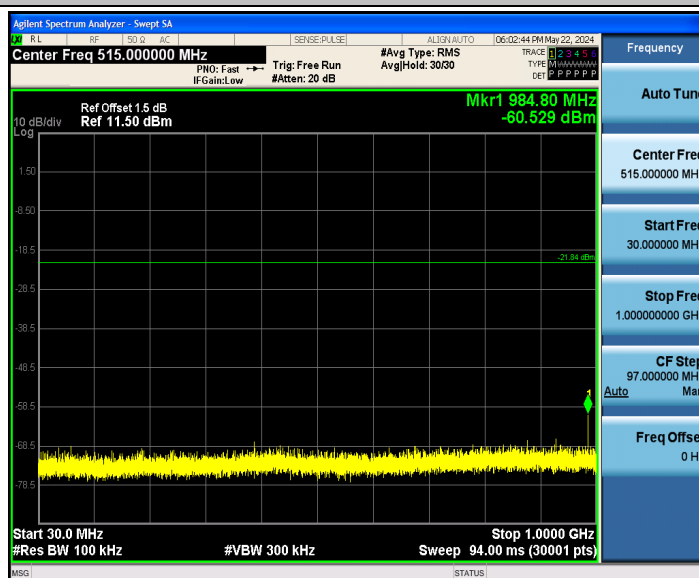




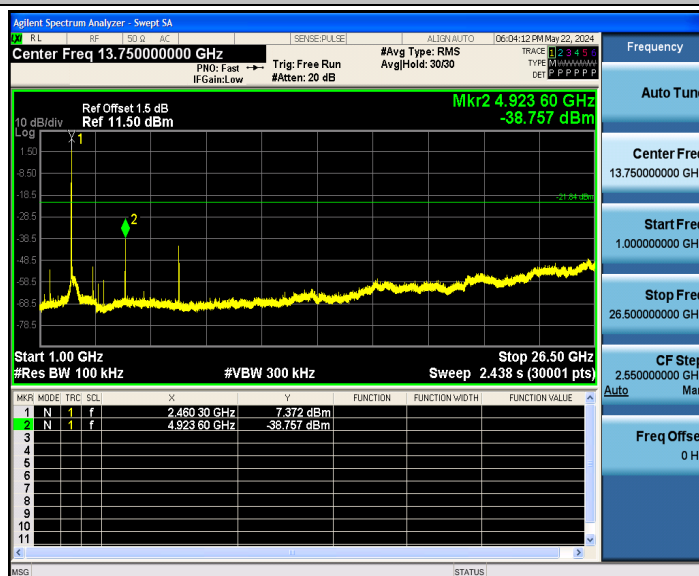
## 802.11b\_2462\_0~Reference



## 802.11b\_2462\_30~1000



## 802.11b\_2462\_1000~26500



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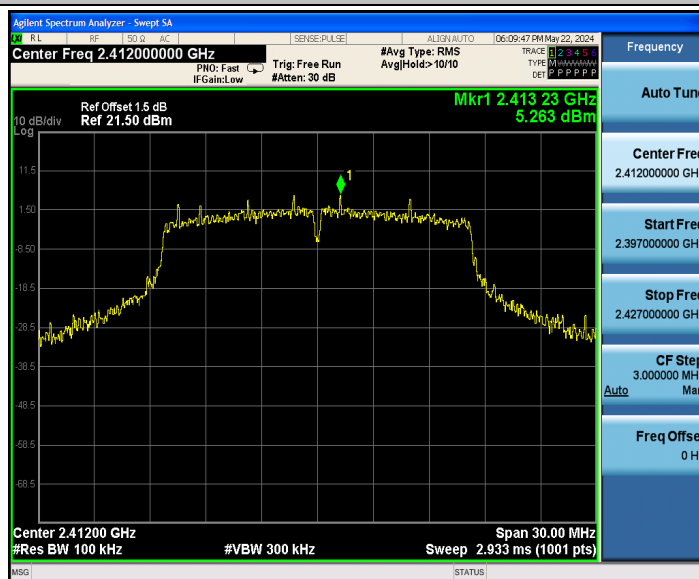
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



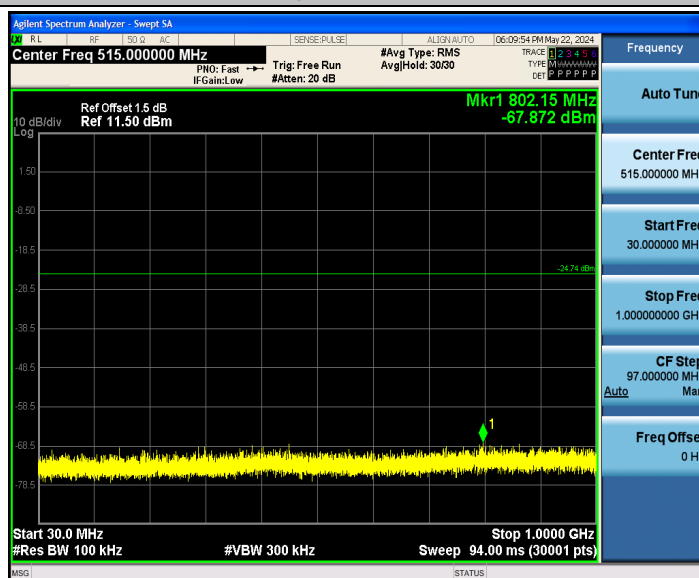
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: [yz.cnca.cn](http://yz.cnca.cn)



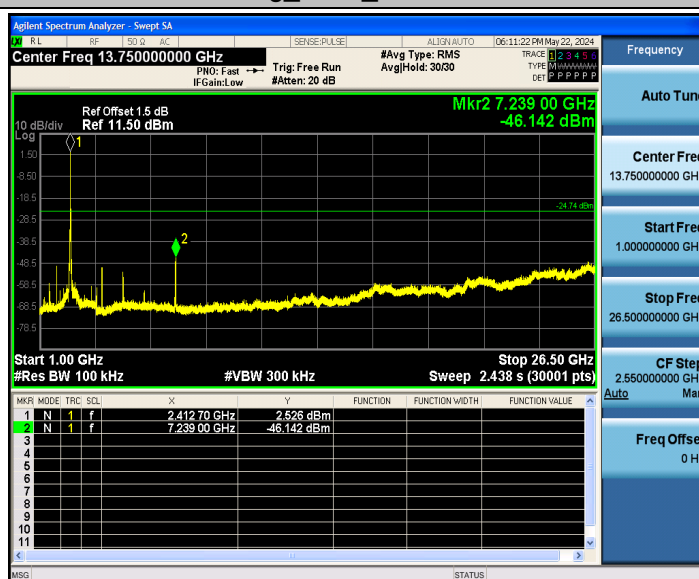
## 802.11g\_2412\_0~Reference



## 802.11g\_2412\_30~1000



## 802.11g\_2412\_1000~26500



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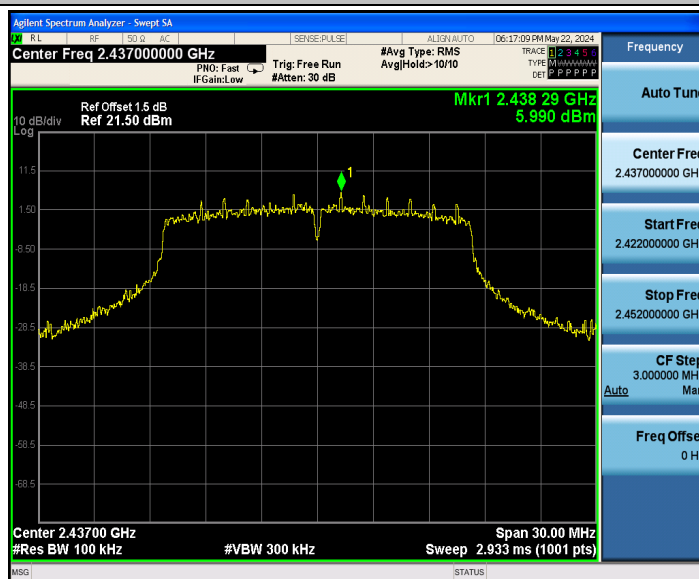
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China  
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



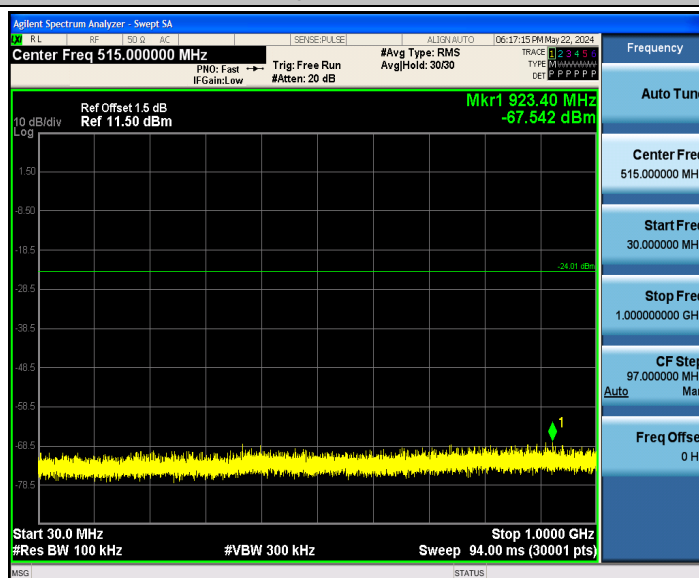
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: [yz.cnca.cn](http://yz.cnca.cn)



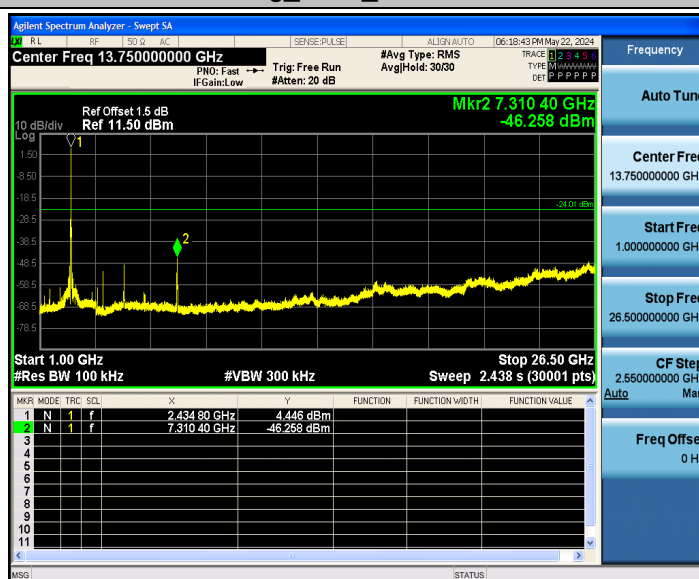
## 802.11g\_2437\_0~Reference



## 802.11g\_2437\_30~1000



## 802.11g\_2437\_1000~26500



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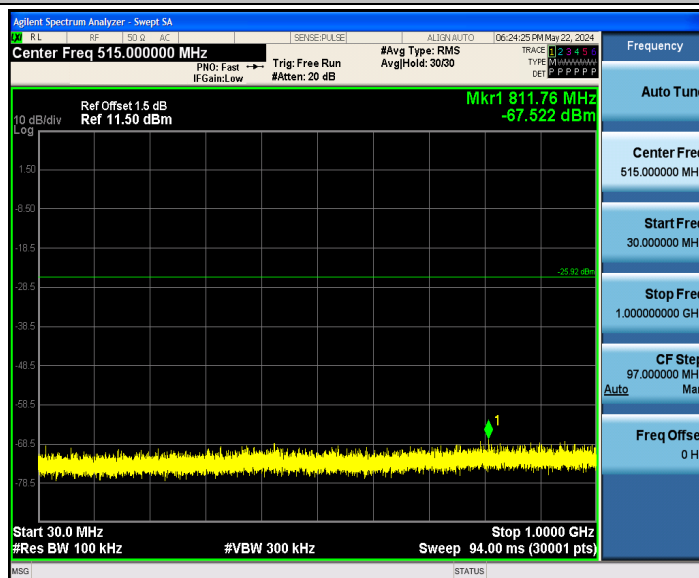
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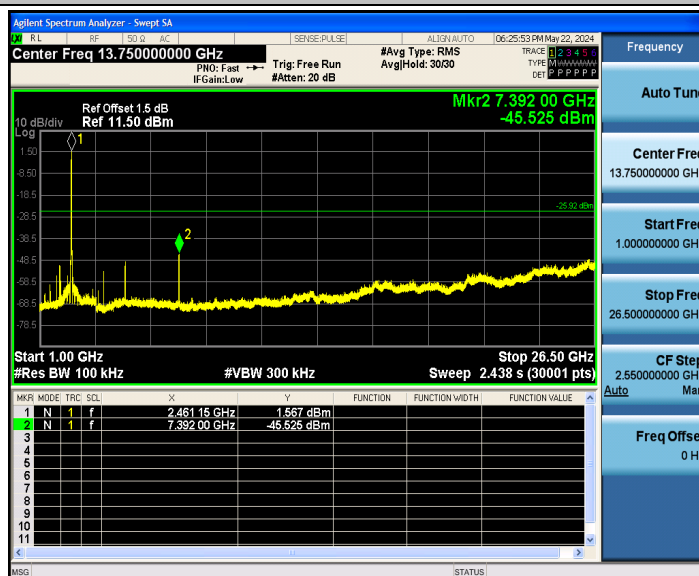
## 802.11g\_2462\_0~Reference



## 802.11g\_2462\_30~1000



## 802.11g\_2462\_1000~26500



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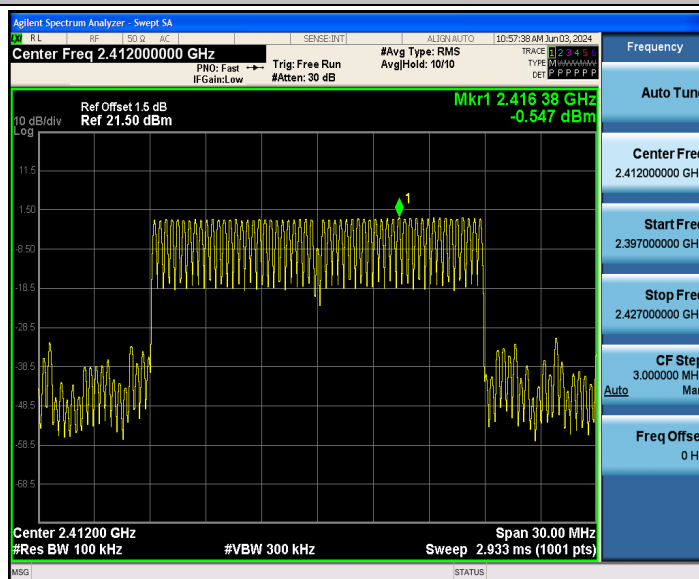
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China  
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



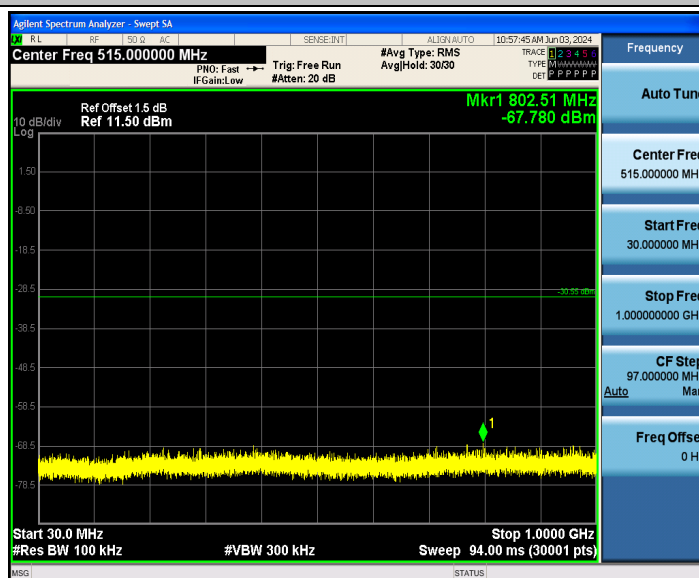
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: [yz.cnca.cn](http://yz.cnca.cn)



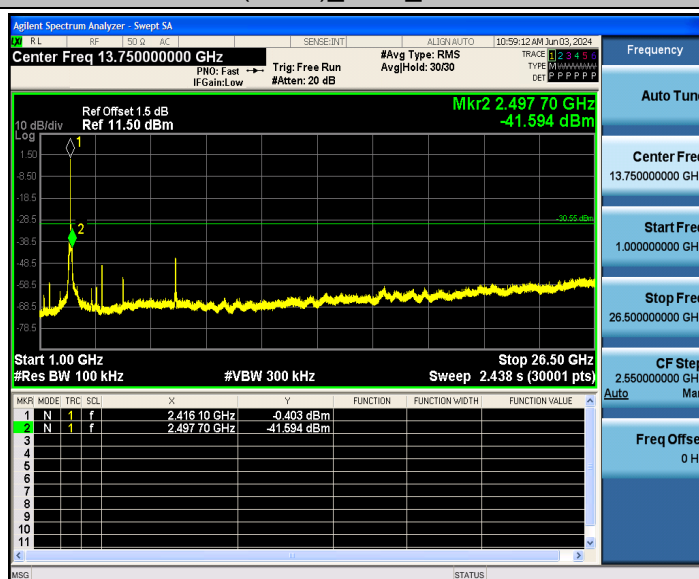
## 802.11n(HT20)\_2412\_0~Reference



## 802.11n(HT20)\_2412\_30~1000



## 802.11n(HT20)\_2412\_1000~26500



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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



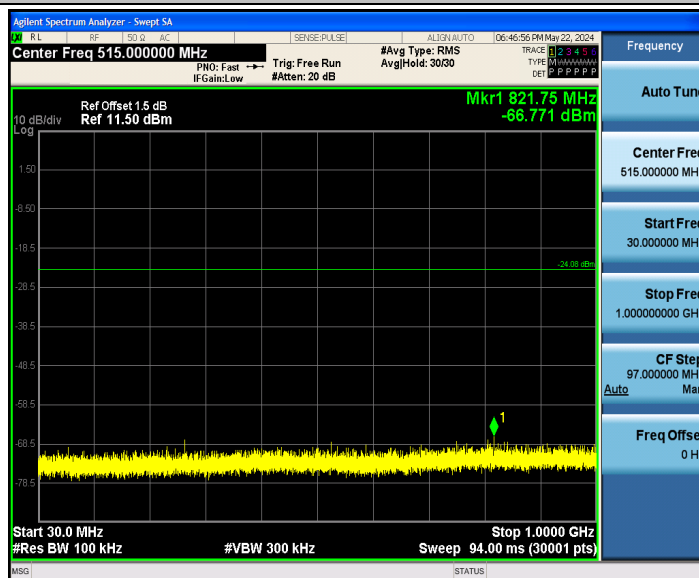
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: [yz.cnca.cn](http://yz.cnca.cn)



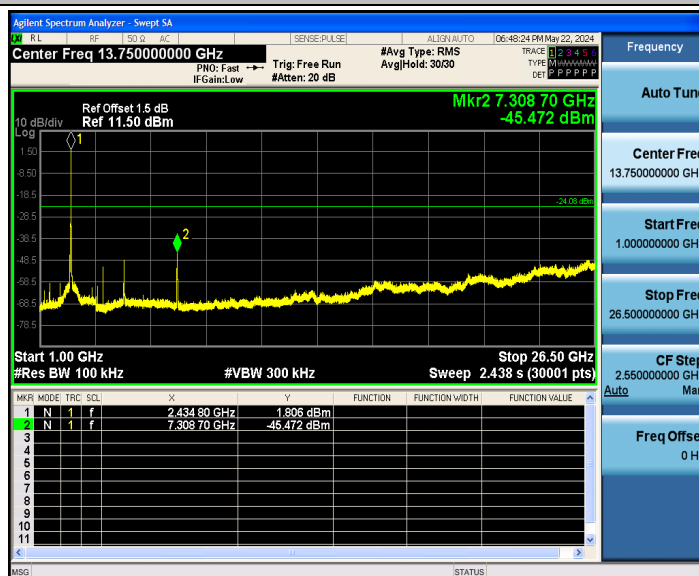
## 802.11n(HT20)\_2437\_0~Reference



## 802.11n(HT20)\_2437\_30~1000



## 802.11n(HT20)\_2437\_1000~26500



CTC Laboratories, Inc.

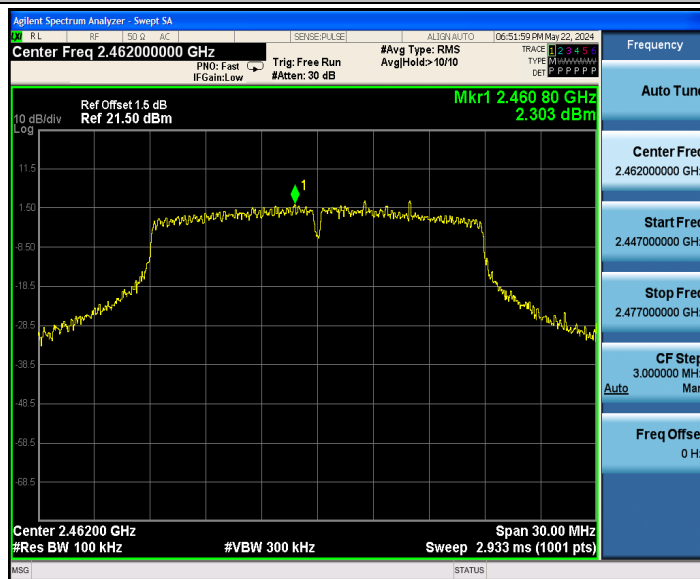
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



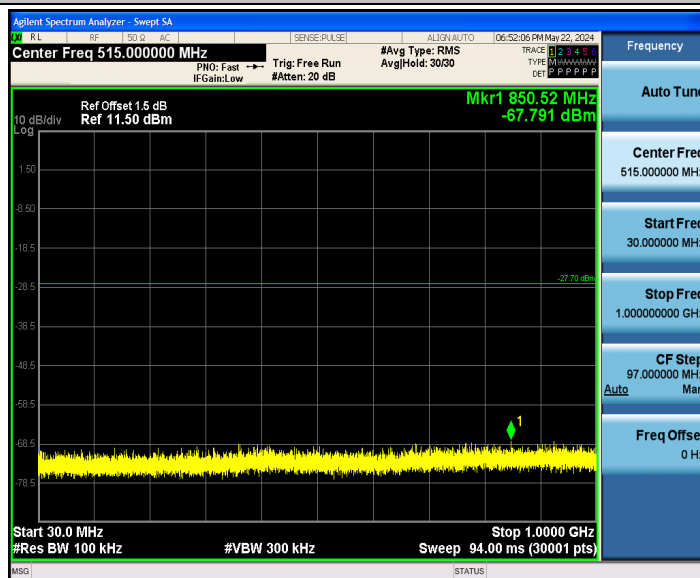
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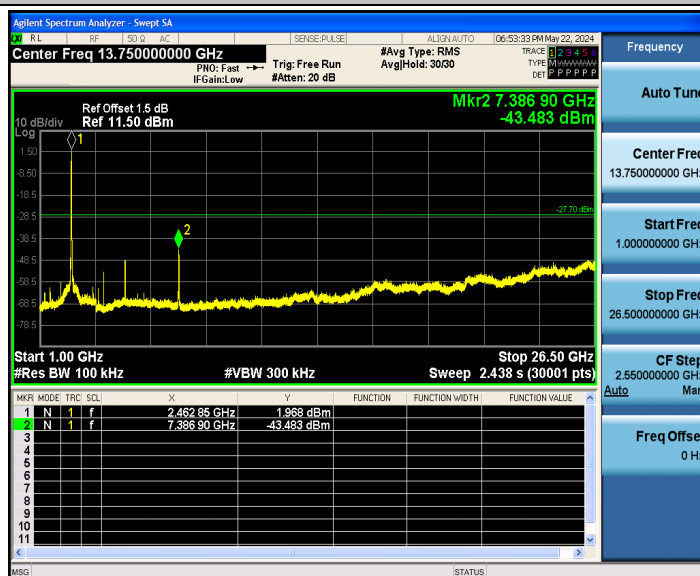
## 802.11n(HT20)\_2462\_0~Reference



## 802.11n(HT20)\_2462\_30~1000



## 802.11n(HT20)\_2462\_1000~26500



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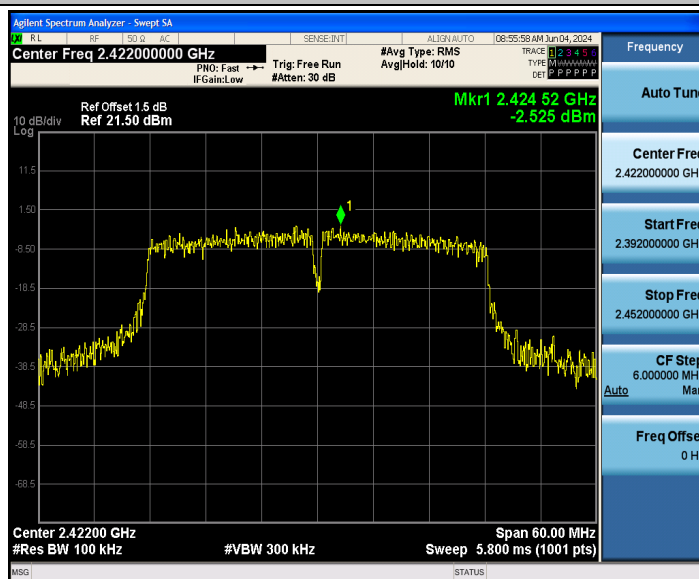
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



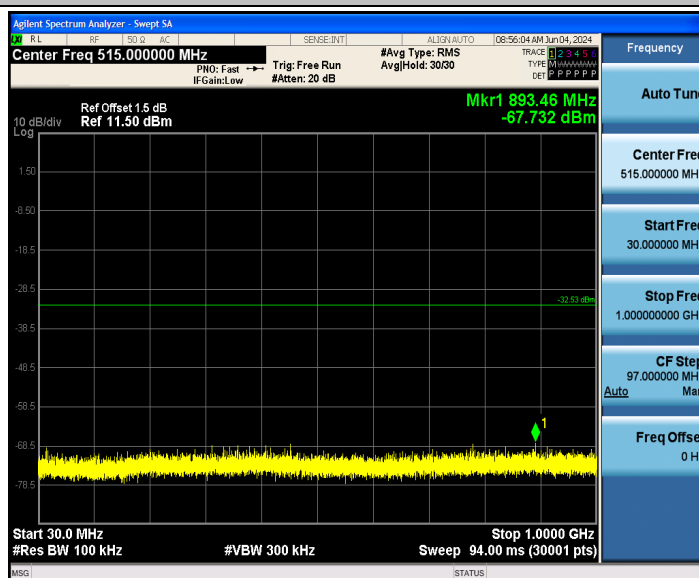
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: [yz.cnca.cn](http://yz.cnca.cn)



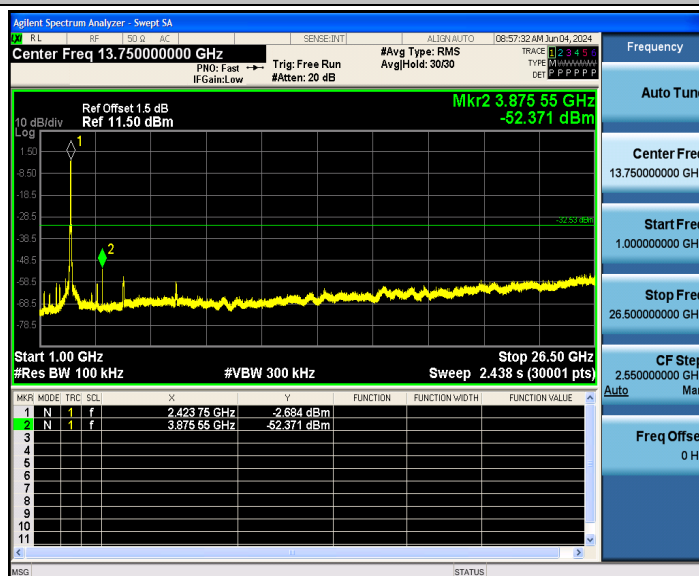
## 802.11n(HT40)\_2422\_0~Reference



## 802.11n(HT40)\_2422\_30~1000



## 802.11n(HT40)\_2422\_1000~26500



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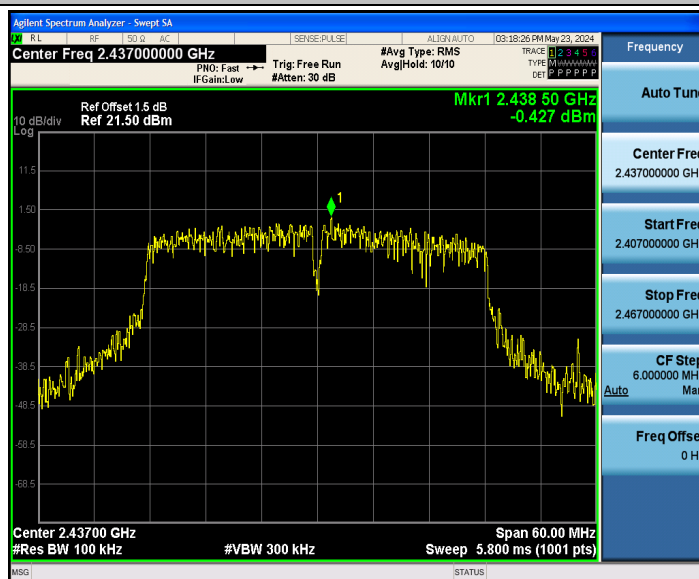
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



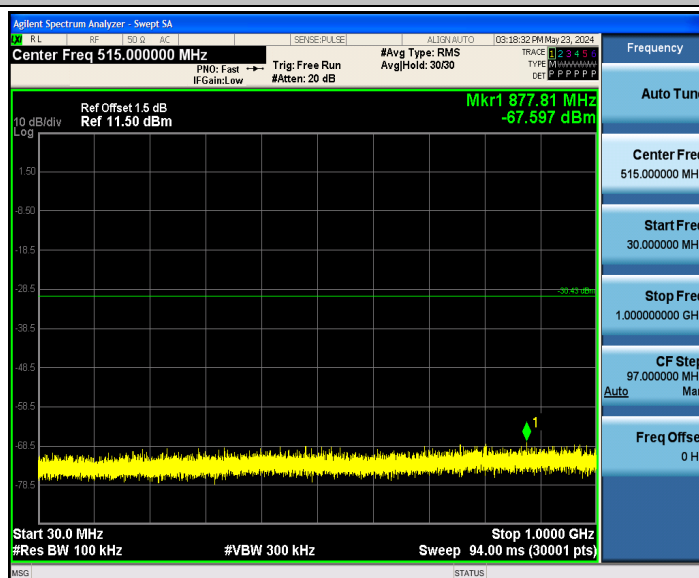
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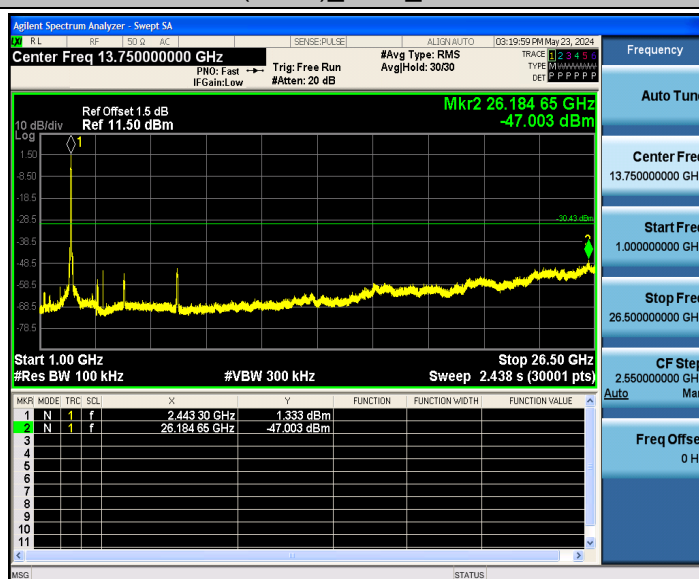
## 802.11n(HT40)\_2437\_0~Reference



## 802.11n(HT40)\_2437\_30~1000



## 802.11n(HT40)\_2437\_1000~26500



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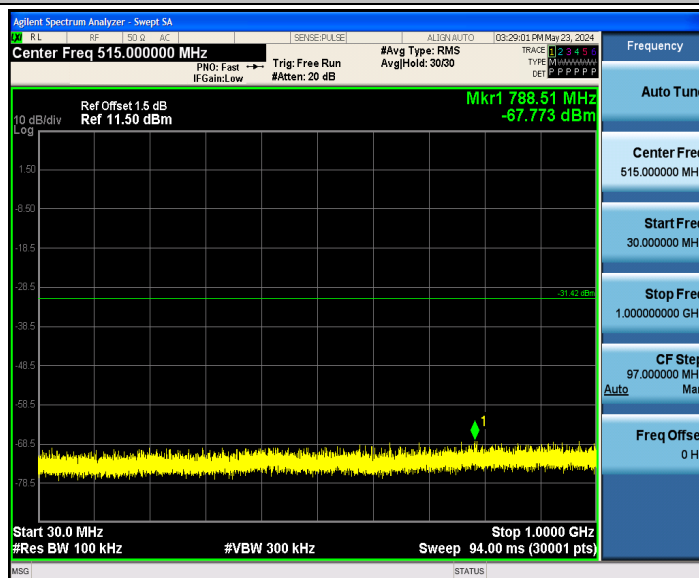
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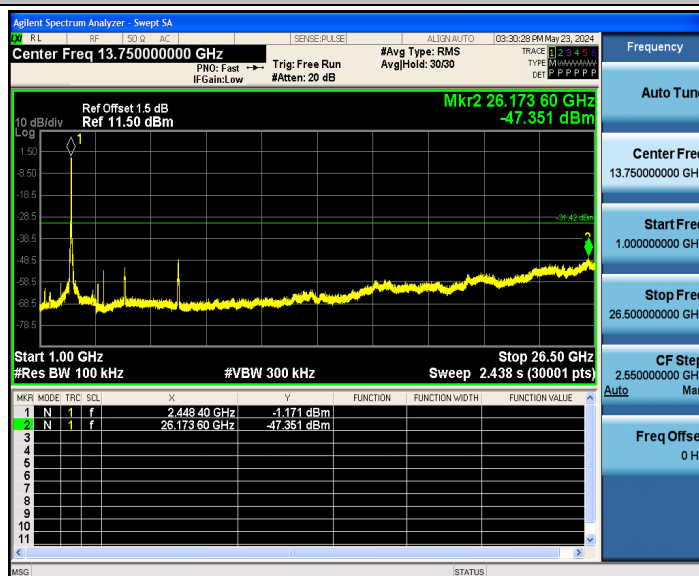
## 802.11n(HT40)\_2452\_0~Reference



## 802.11n(HT40)\_2452\_30~1000



## 802.11n(HT40)\_2452\_1000~26500



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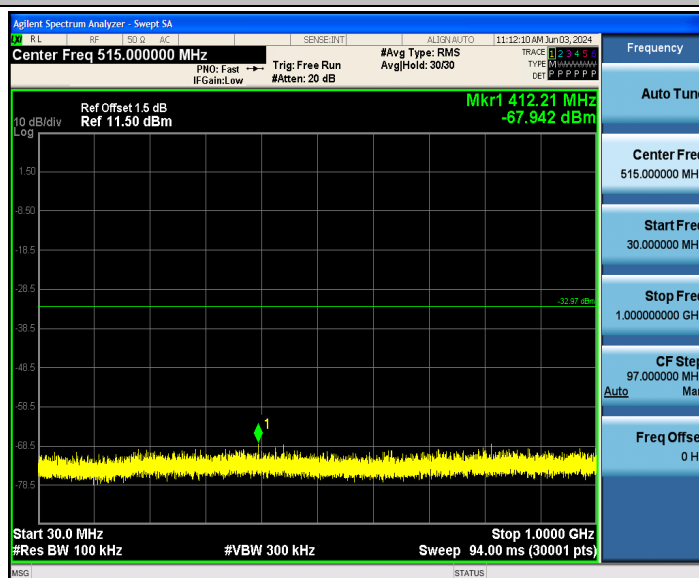
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: [yz.cnca.cn](http://yz.cnca.cn)



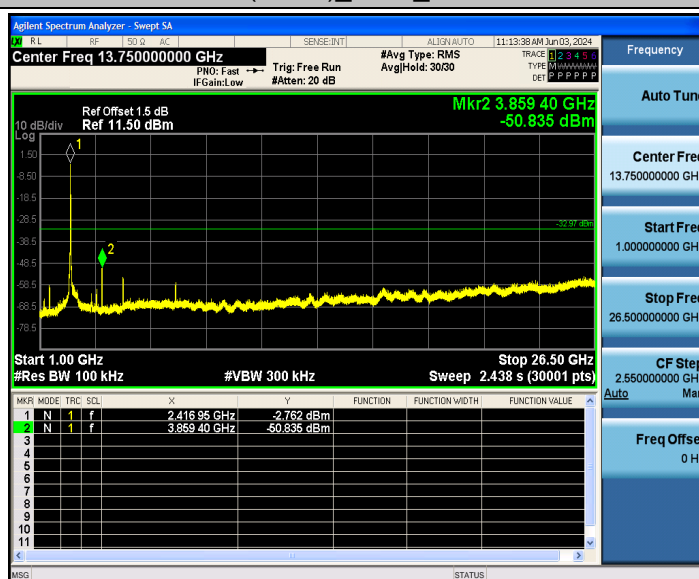
## 802.11ax(HE20)\_2412\_0~Reference



## 802.11ax(HE20)\_2412\_30~1000



## 802.11ax(HE20)\_2412\_1000~26500



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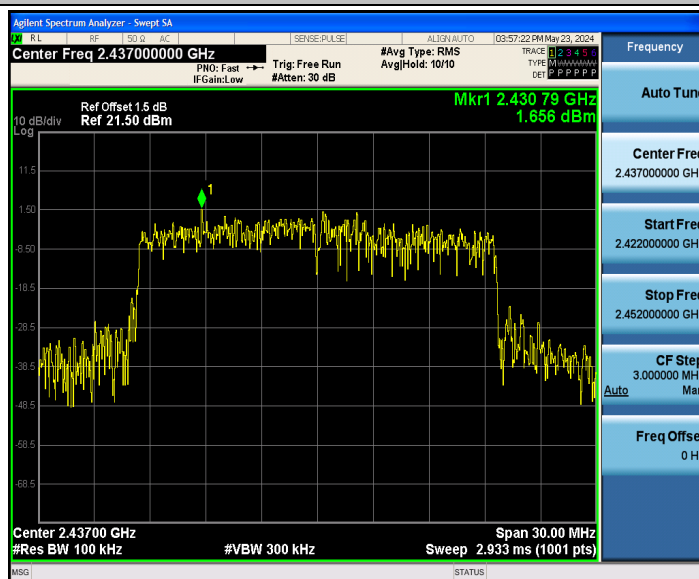
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



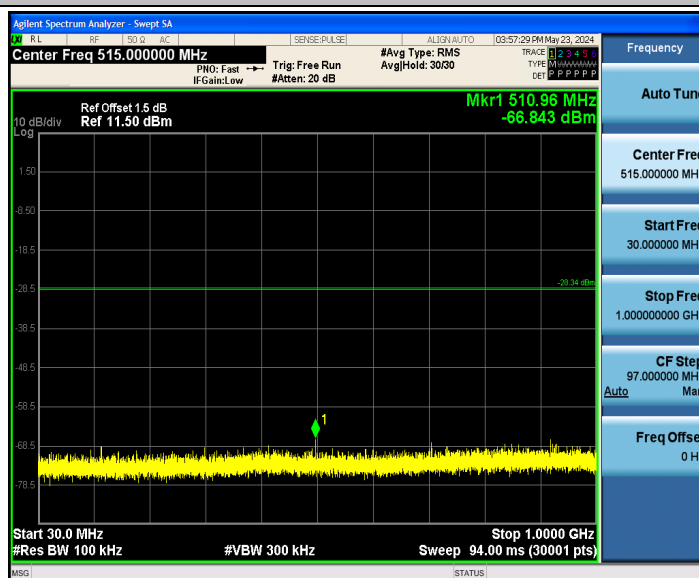
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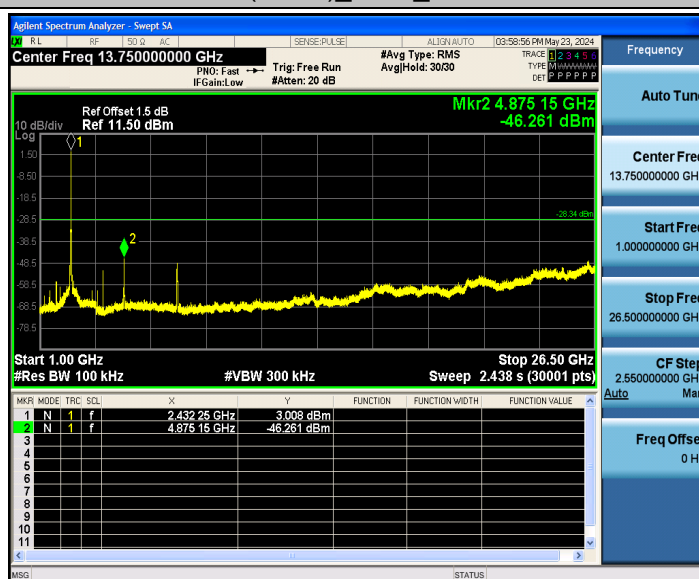
## 802.11ax(HE20)\_2437\_0~Reference



## 802.11ax(HE20)\_2437\_30~1000



## 802.11ax(HE20)\_2437\_1000~26500



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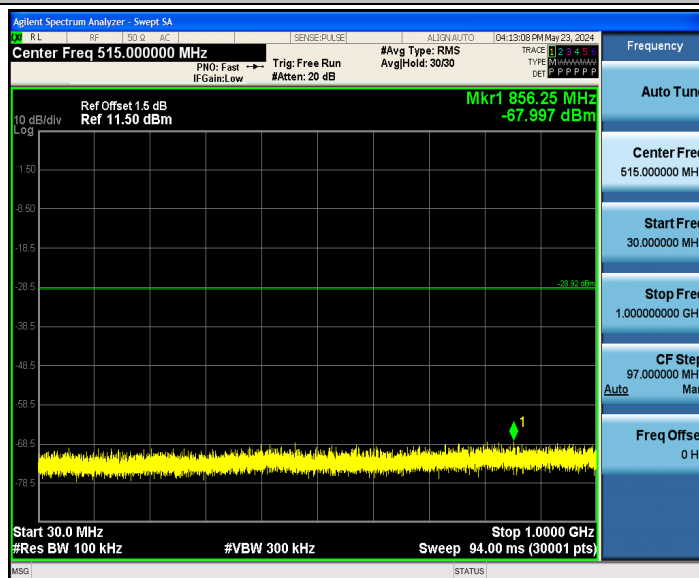
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: [yz.cnca.cn](http://yz.cnca.cn)



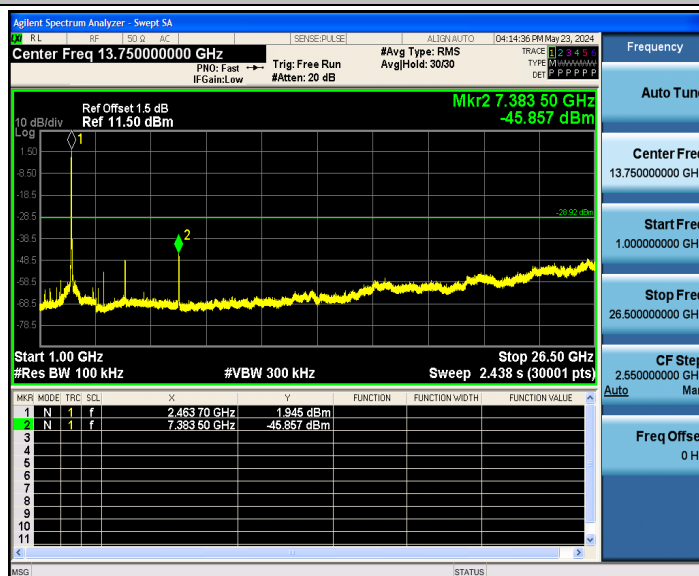
## 802.11ax(HE20)\_2462\_0~Reference



## 802.11ax(HE20)\_2462\_30~1000



## 802.11ax(HE20)\_2462\_1000~26500



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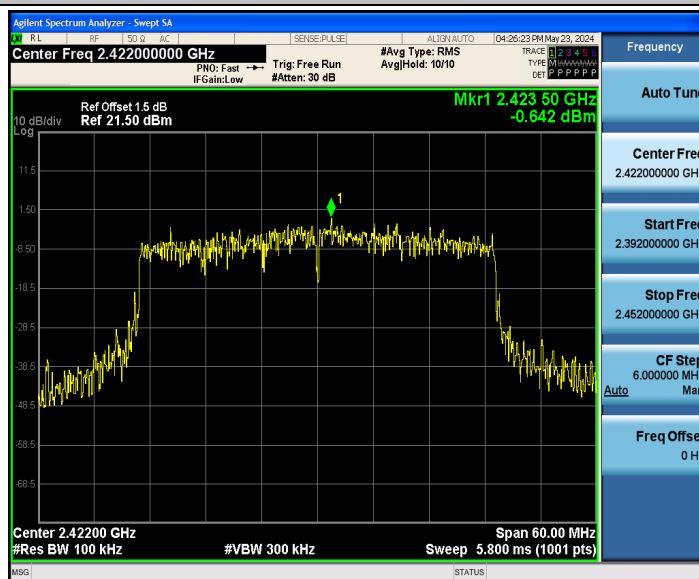
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



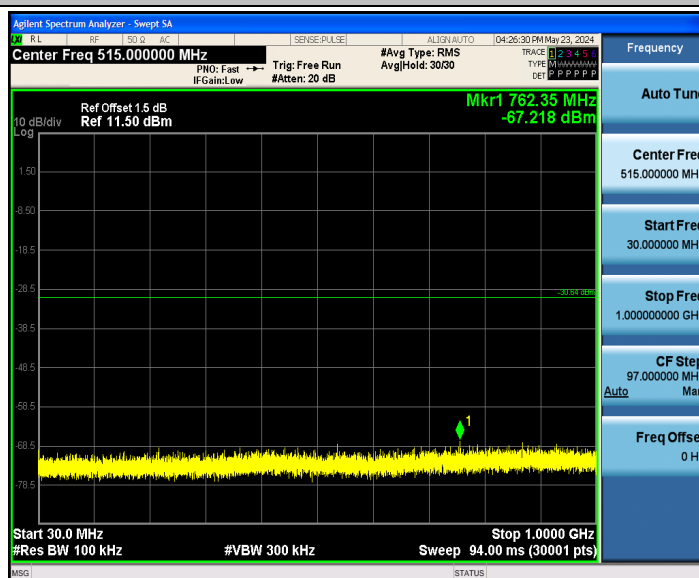
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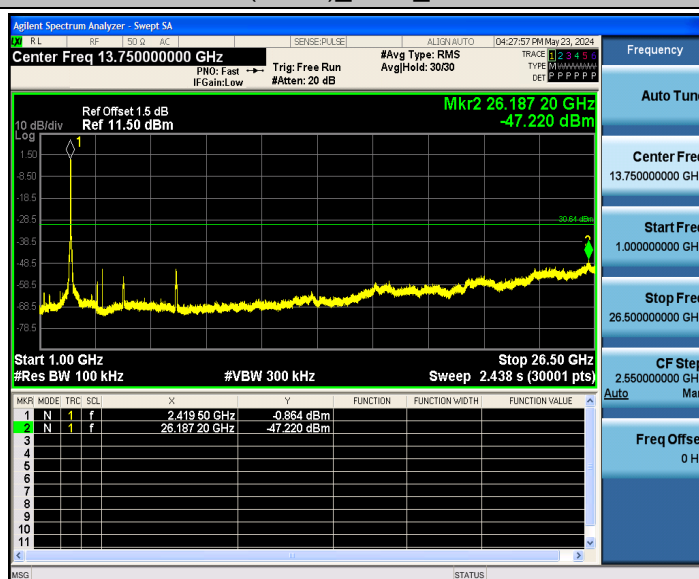
## 802.11ax(HE40)\_2422\_0~Reference



## 802.11ax(HE40)\_2422\_30~1000



## 802.11ax(HE40)\_2422\_1000~26500



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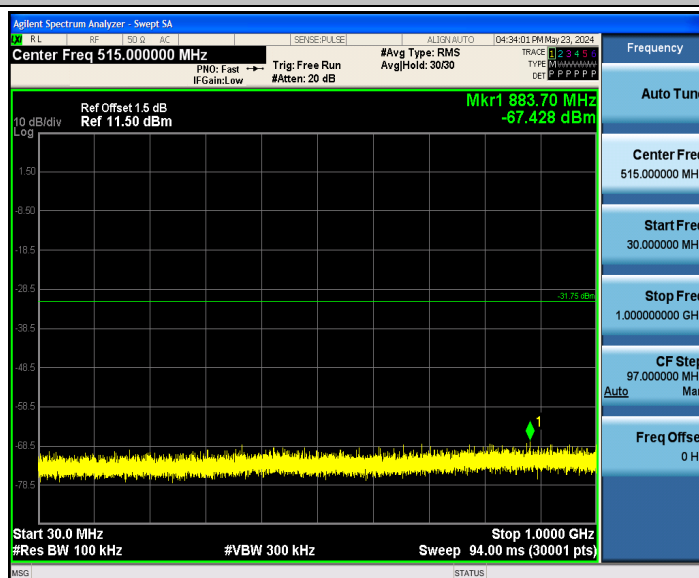
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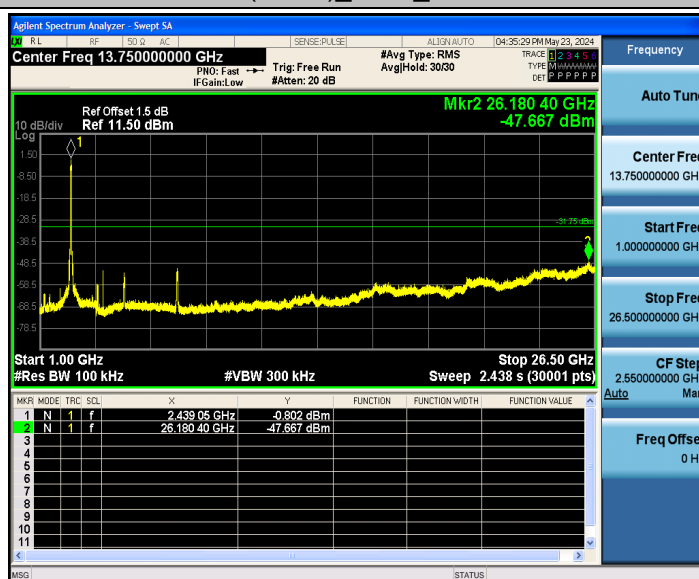
## 802.11ax(HE40)\_2437\_0~Reference



## 802.11ax(HE40)\_2437\_30~1000



## 802.11ax(HE40)\_2437\_1000~26500



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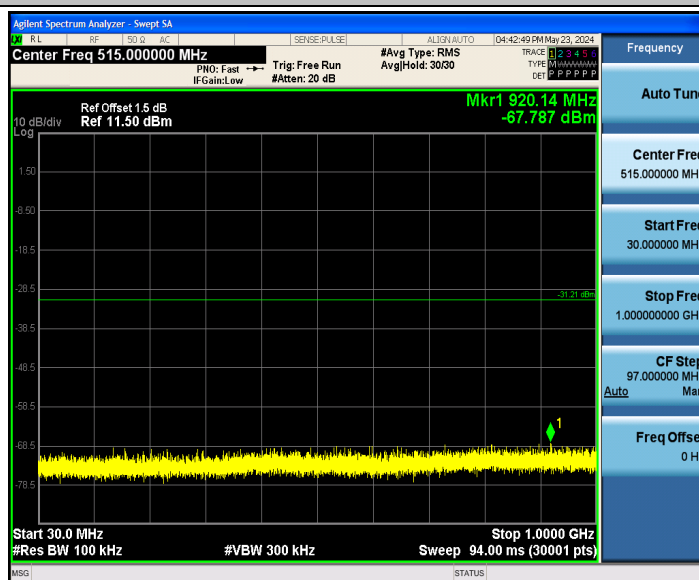
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: [yz.cnca.cn](http://yz.cnca.cn)



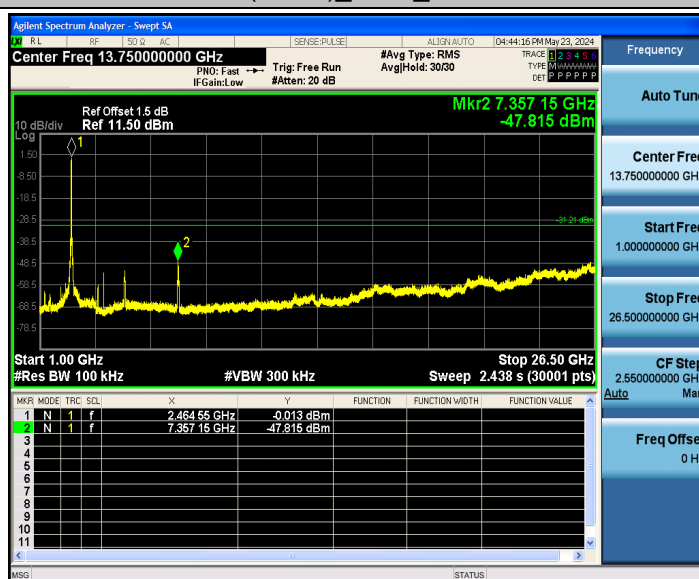
## 802.11ax(HE40)\_2452\_0~Reference



## 802.11ax(HE40)\_2452\_30~1000



## 802.11ax(HE40)\_2452\_1000~26500



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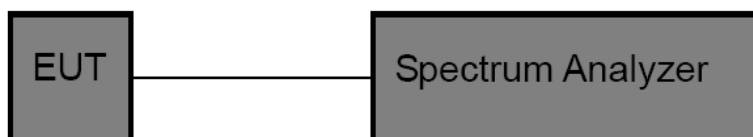
### 3.5. DTS Bandwidth

#### Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2)/ RSS-247 5.2 a:

| Test Item     | Limit                             | Frequency Range(MHz) |
|---------------|-----------------------------------|----------------------|
| DTS Bandwidth | $\geq 500$ KHz<br>(6dB bandwidth) | 2400~2483.5          |

#### Test Configuration



#### Test Procedure

5. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
6. DTS Spectrum Setting:
  - (1) Set RBW = 100 kHz.
  - (2) Set the video bandwidth (VBW)  $\geq 3$  RBW.
  - (3) Detector = Peak.
  - (4) Trace mode = Max hold.
  - (5) Sweep = Auto couple.OCB Spectrum Setting:
  - (1) Set RBW = 1% ~ 5% occupied bandwidth.
  - (2) Set the video bandwidth (VBW)  $\geq 3$  RBW.
  - (3) Detector = Peak.
  - (4) Trace mode = Max hold.
  - (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

#### Test Mode

Please refer to the clause 2.4.

**Test Results**

| Test Mode      | Test Frequency [MHz] | DTS BW [MHz] | Limit [MHz] | Verdict |
|----------------|----------------------|--------------|-------------|---------|
| 802.11b        | 2412                 | 9.080        | $\geq 0.5$  | PASS    |
|                | 2437                 | 10.040       | $\geq 0.5$  | PASS    |
|                | 2462                 | 10.040       | $\geq 0.5$  | PASS    |
| 802.11g        | 2412                 | 16.320       | $\geq 0.5$  | PASS    |
|                | 2437                 | 16.280       | $\geq 0.5$  | PASS    |
|                | 2462                 | 13.160       | $\geq 0.5$  | PASS    |
| 802.11n(HT20)  | 2412                 | 17.600       | $\geq 0.5$  | PASS    |
|                | 2437                 | 17.520       | $\geq 0.5$  | PASS    |
|                | 2462                 | 17.320       | $\geq 0.5$  | PASS    |
| 802.11n(HT40)  | 2422                 | 32.080       | $\geq 0.5$  | PASS    |
|                | 2437                 | 35.920       | $\geq 0.5$  | PASS    |
|                | 2452                 | 36.320       | $\geq 0.5$  | PASS    |
| 802.11ax(HE20) | 2412                 | 18.120       | $\geq 0.5$  | PASS    |
|                | 2437                 | 12.880       | $\geq 0.5$  | PASS    |
|                | 2462                 | 18.800       | $\geq 0.5$  | PASS    |
| 802.11ax(HE40) | 2422                 | 37.280       | $\geq 0.5$  | PASS    |
|                | 2437                 | 36.080       | $\geq 0.5$  | PASS    |
|                | 2452                 | 37.360       | $\geq 0.5$  | PASS    |



## 802.11b\_2412



## 802.11b\_2437



## 802.11b\_2462



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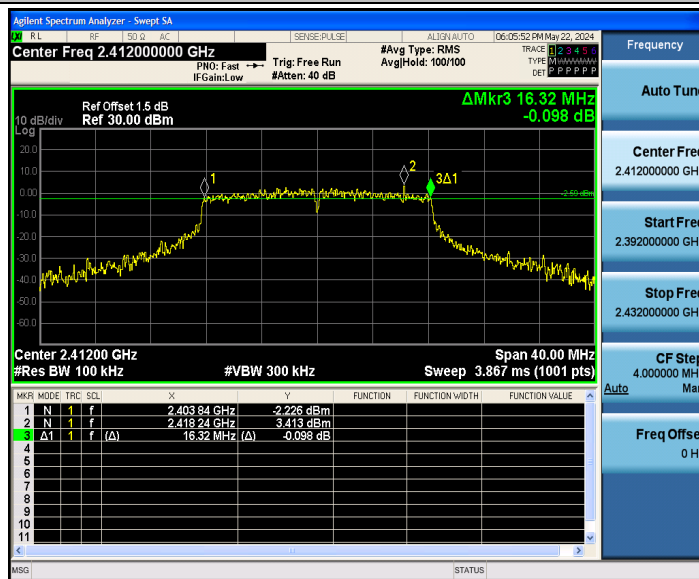
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China  
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



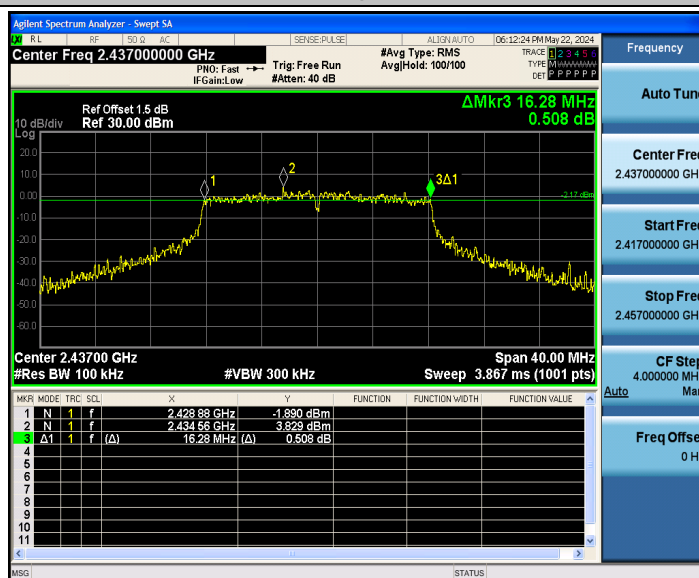
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: [yz.cnca.cn](http://yz.cnca.cn)



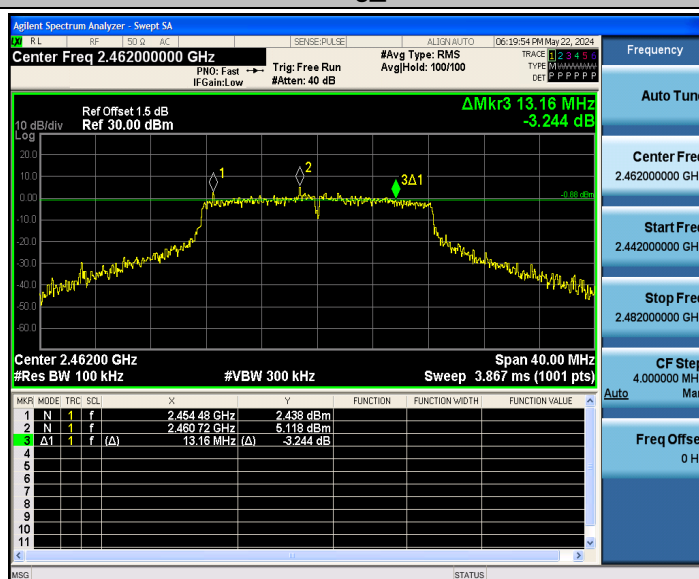
## 802.11g\_2412



## 802.11g\_2437



## 802.11g\_2462



CTC Laboratories, Inc.

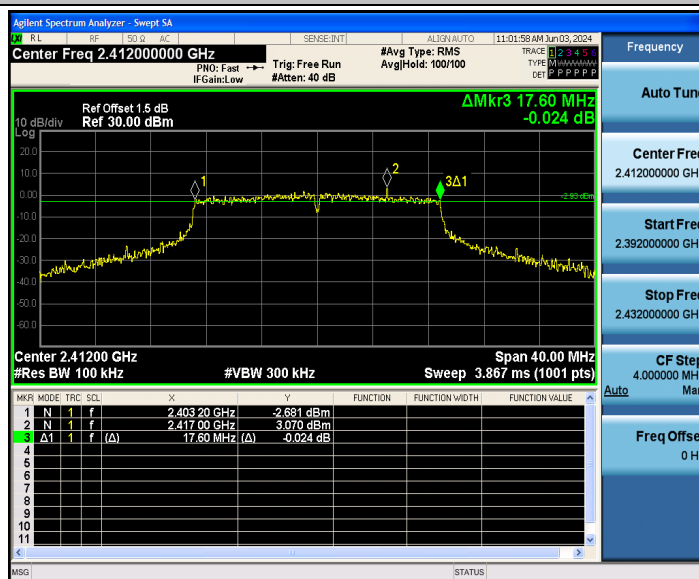
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



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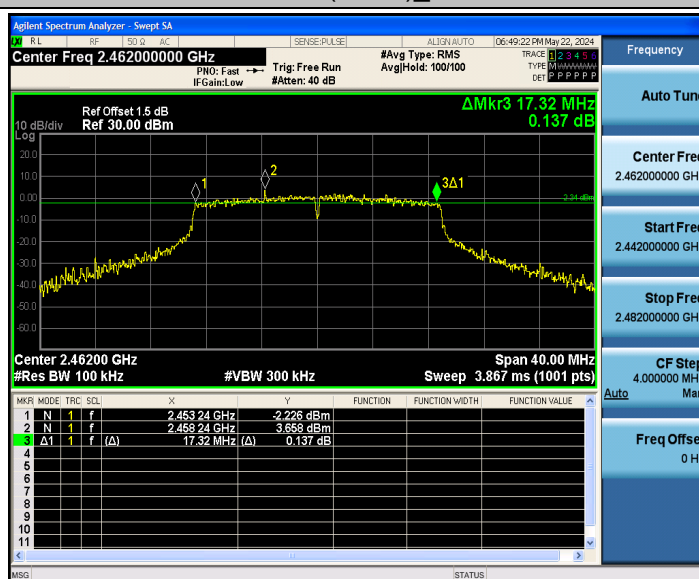
## 802.11n(HT20)\_2412



## 802.11n(HT20)\_2437



## 802.11n(HT20)\_2462



CTC Laboratories, Inc.

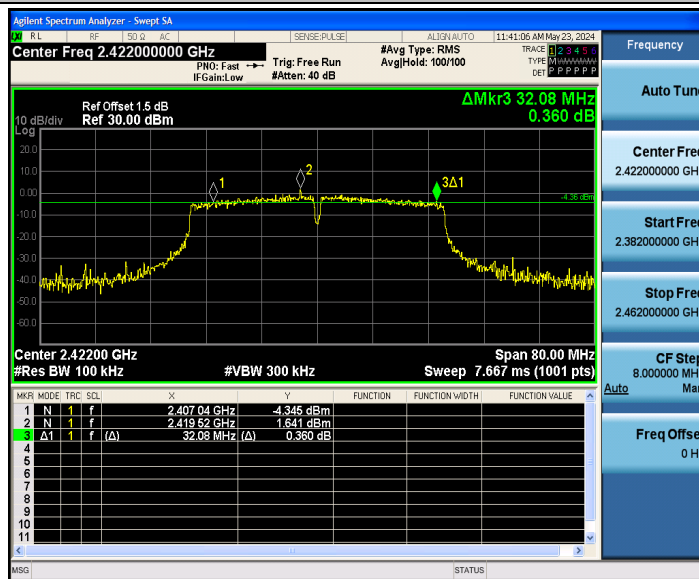
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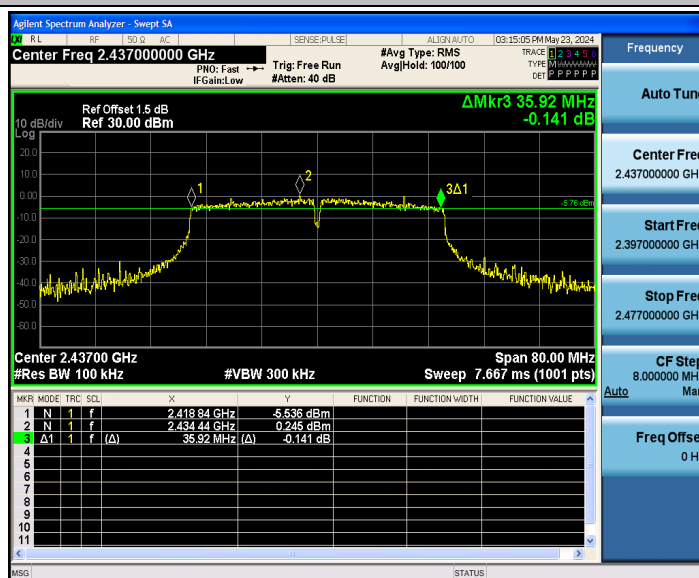
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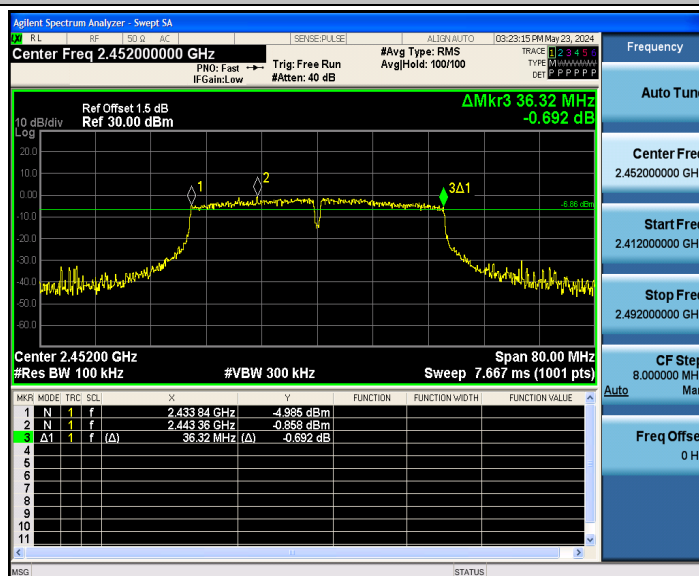
## 802.11n(HT40)\_2422



## 802.11n(HT40)\_2437



## 802.11n(HT40)\_2452



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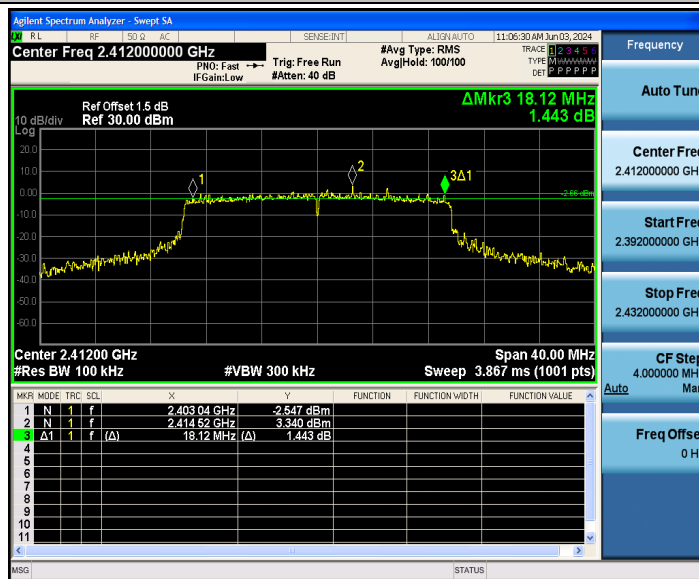
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



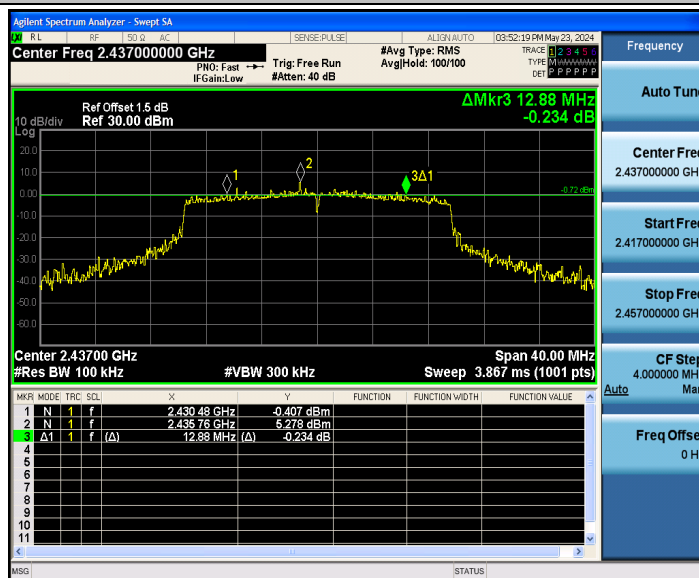
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: [yz.cnca.cn](http://yz.cnca.cn)



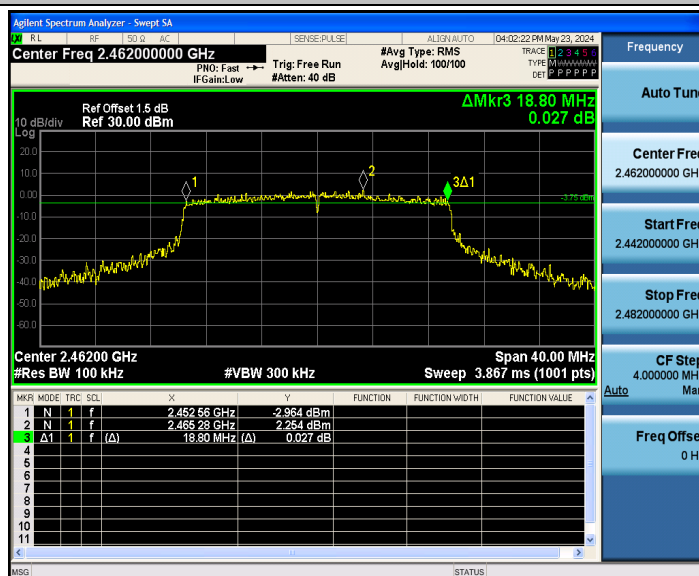
## 802.11ax(HE20)\_2412



## 802.11ax(HE20)\_2437

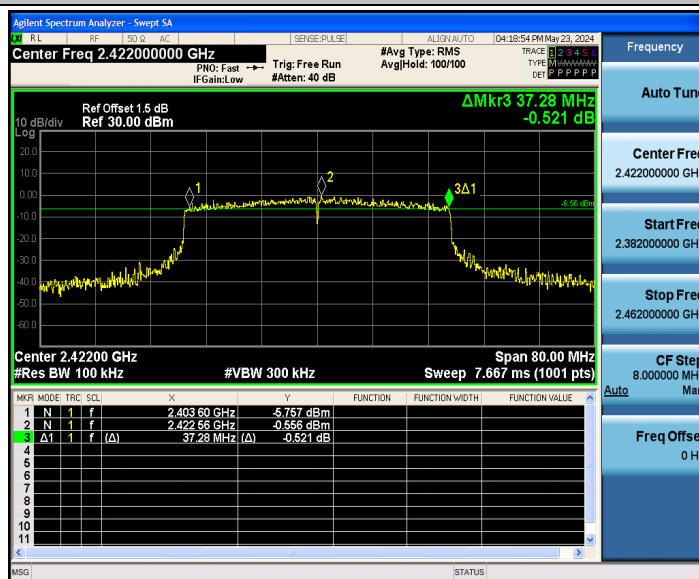


## 802.11ax(HE20)\_2462

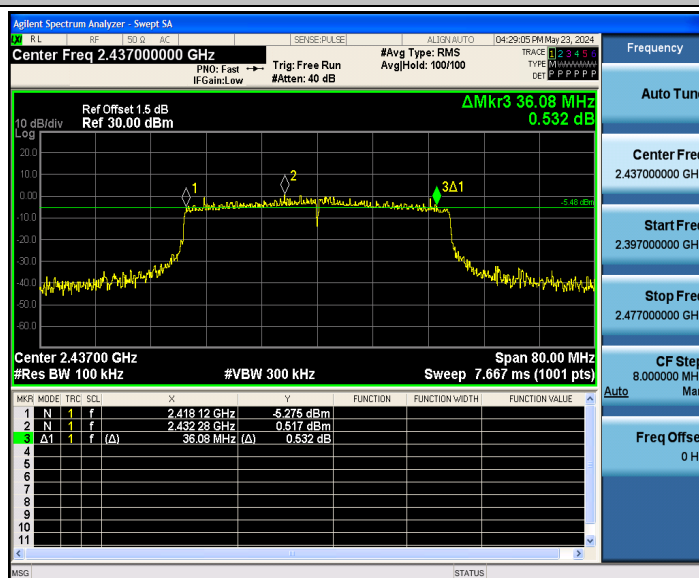




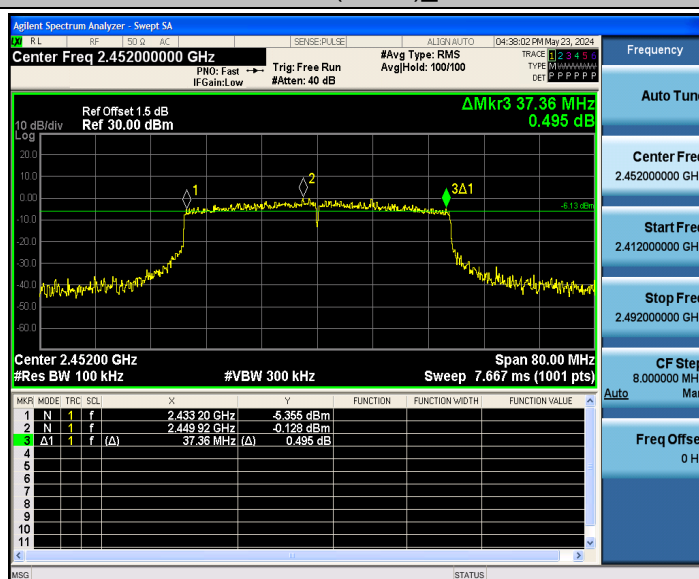
## 802.11ax(HE40)\_2422



## 802.11ax(HE40)\_2437



## 802.11ax(HE40)\_2452



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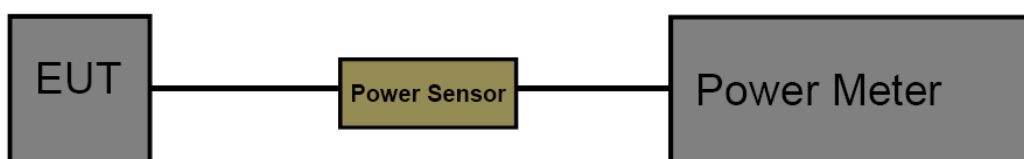
### 3.6. Maximum Conducted Output Power

#### Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)/ RSS-247 5.4:

| Section                 | Test Item                      | Limit           | Frequency Range(MHz) |
|-------------------------|--------------------------------|-----------------|----------------------|
| CFR 47 FCC 15.247(b)(3) | Maximum conducted output power | 1 Watt or 30dBm | 2400~2483.5          |
| ISED RSS-247 5.4 d      | EIRP                           | 4 Watt or 36dBm | 2400~2483.5          |

#### Test Configuration



#### Test Procedure

1. The maximum conducted output power may be measured using a broadband RF power meter.
2. Power measurements were performed only when the EUT was transmitting at its AVG power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
4. Record the measurement data.

#### Test Mode

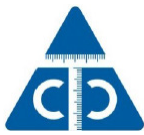
Please refer to the clause 2.4.

#### Test Result



| Test Mode      | Test Frequency [MHz] | Result Avg [dBm] | Limit [dBm] | Verdict |
|----------------|----------------------|------------------|-------------|---------|
| 802.11b        | 2412                 | 16.13            | <=30        | PASS    |
|                | 2437                 | 16.44            | <=30        | PASS    |
|                | 2462                 | 16.82            | <=30        | PASS    |
| 802.11g        | 2412                 | 14.66            | <=30        | PASS    |
|                | 2437                 | 15.75            | <=30        | PASS    |
|                | 2462                 | 15.85            | <=30        | PASS    |
| 802.11n(HT20)  | 2412                 | 15.84            | <=30        | PASS    |
|                | 2437                 | 16.01            | <=30        | PASS    |
|                | 2462                 | 15.80            | <=30        | PASS    |
| 802.11n(HT40)  | 2422                 | 15.79            | <=30        | PASS    |
|                | 2437                 | 15.79            | <=30        | PASS    |
|                | 2452                 | 15.69            | <=30        | PASS    |
| 802.11ax(HE20) | 2412                 | 15.81            | <=30        | PASS    |
|                | 2437                 | 16.38            | <=30        | PASS    |
|                | 2462                 | 16.01            | <=30        | PASS    |
| 802.11ax(HE40) | 2422                 | 15.74            | <=30        | PASS    |
|                | 2437                 | 15.89            | <=30        | PASS    |
|                | 2452                 | 15.72            | <=30        | PASS    |

Note: Test results increased RF cable loss by 1.5dB and Duty Cycle Factor.



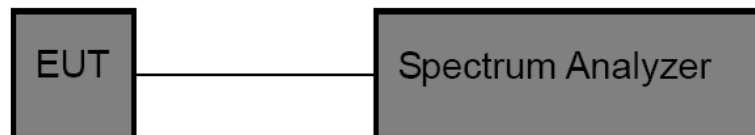
### 3.7. Power Spectral Density

#### Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)/ RSS-247 5.2 b:

| Test Item              | Limit              | Frequency Range(MHz) |
|------------------------|--------------------|----------------------|
| Power Spectral Density | 8dBm(in any 3 kHz) | 2400~2483.5          |

#### Test Configuration



#### Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:  
Set analyzer center frequency to DTS channel center frequency.  
Set the span to 1.5 times the DTS bandwidth.  
Set the RBW to: 3 kHz  
Set the VBW to: 10 kHz  
Detector: PK  
Sweep time: Auto  
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

#### Test Mode

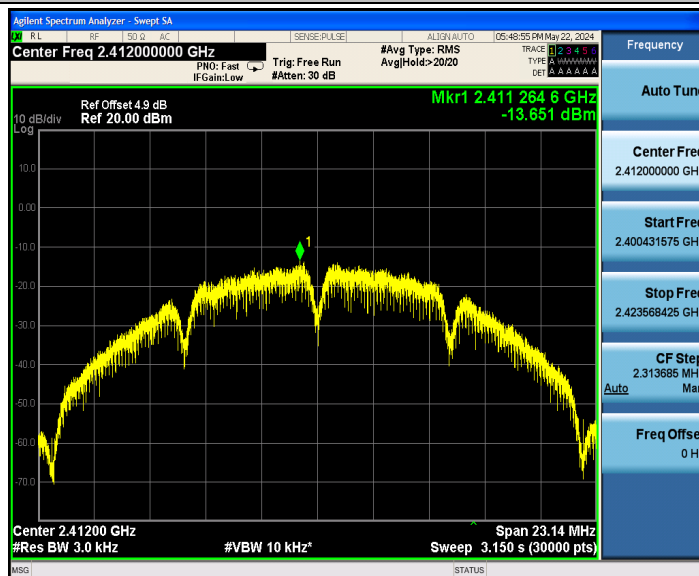
Please refer to the clause 2.4.

**Test Result**

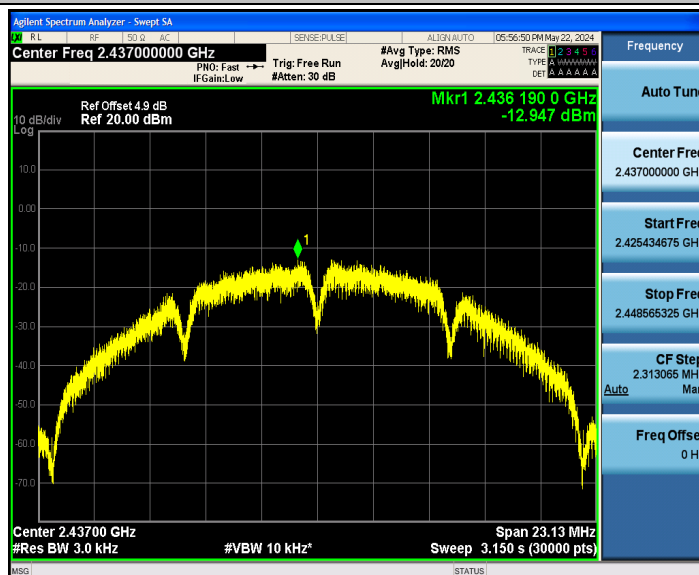
| Test Mode      | Test Frequency [MHz] | Result [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|----------------|----------------------|-------------------|------------------|---------|
| 802.11b        | 2412                 | -13.44            | <=8              | PASS    |
|                | 2437                 | -12.95            | <=8              | PASS    |
|                | 2462                 | -12.67            | <=8              | PASS    |
| 802.11g        | 2412                 | -13.85            | <=8              | PASS    |
|                | 2437                 | -13.20            | <=8              | PASS    |
|                | 2462                 | -13.20            | <=8              | PASS    |
| 802.11n(HT20)  | 2412                 | -16.30            | <=8              | PASS    |
|                | 2437                 | -13.94            | <=8              | PASS    |
|                | 2462                 | -14.99            | <=8              | PASS    |
| 802.11n(HT40)  | 2422                 | -18.22            | <=8              | PASS    |
|                | 2437                 | -17.16            | <=8              | PASS    |
|                | 2452                 | -18.18            | <=8              | PASS    |
| 802.11ax(HE20) | 2412                 | -15.40            | <=8              | PASS    |
|                | 2437                 | -15.61            | <=8              | PASS    |
|                | 2462                 | -15.00            | <=8              | PASS    |
| 802.11ax(HE40) | 2422                 | -18.26            | <=8              | PASS    |
|                | 2437                 | -19.73            | <=8              | PASS    |
|                | 2452                 | -19.22            | <=8              | PASS    |



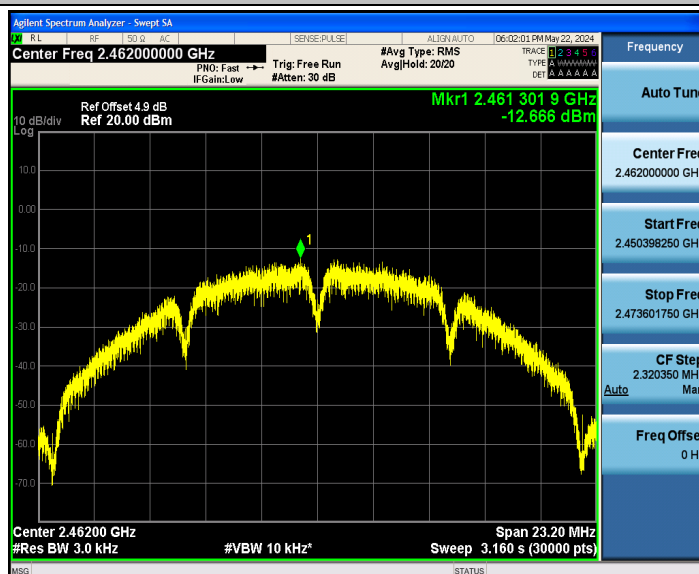
## 802.11b\_2412



## 802.11b\_2437



## 802.11b\_2462



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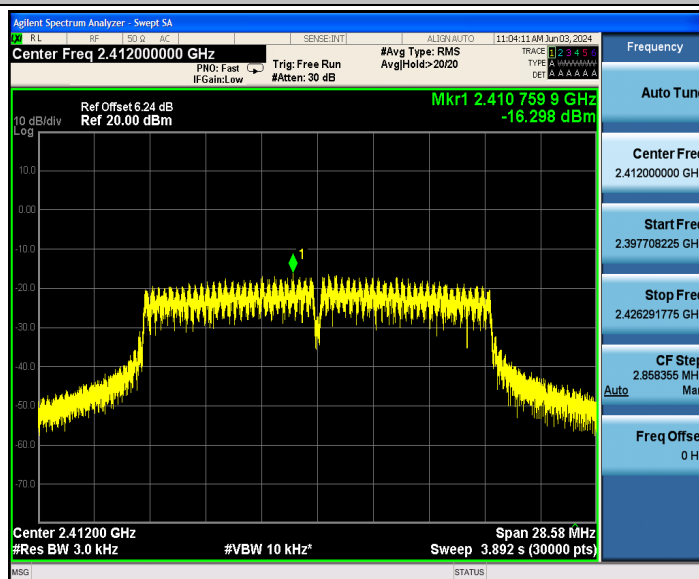
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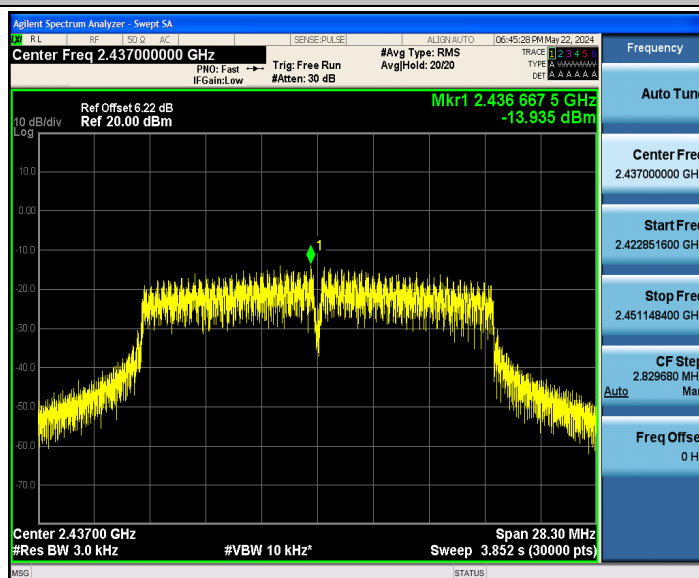




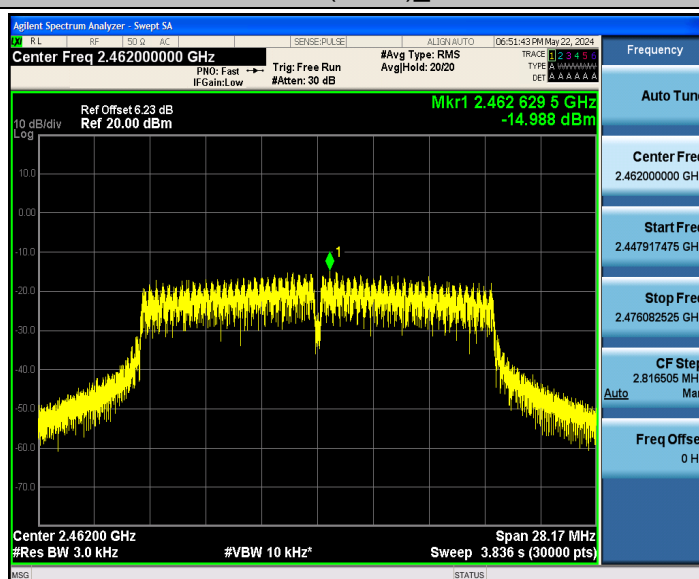
## 802.11n(HT20)\_2412



## 802.11n(HT20)\_2437



## 802.11n(HT20)\_2462



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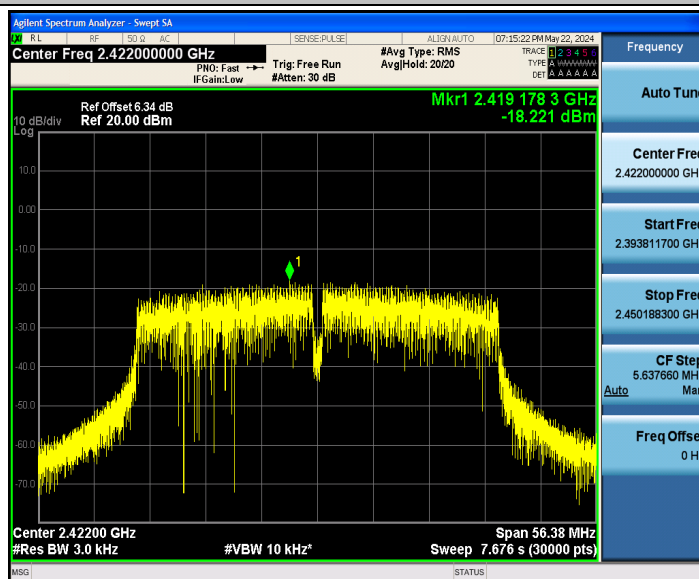
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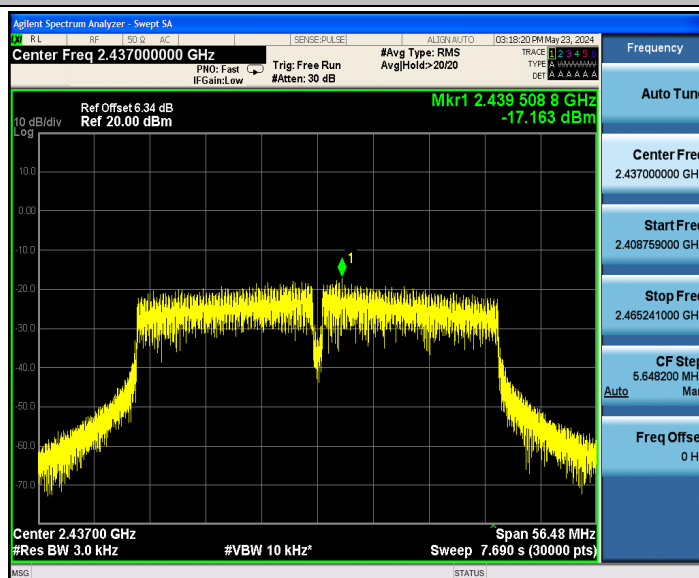
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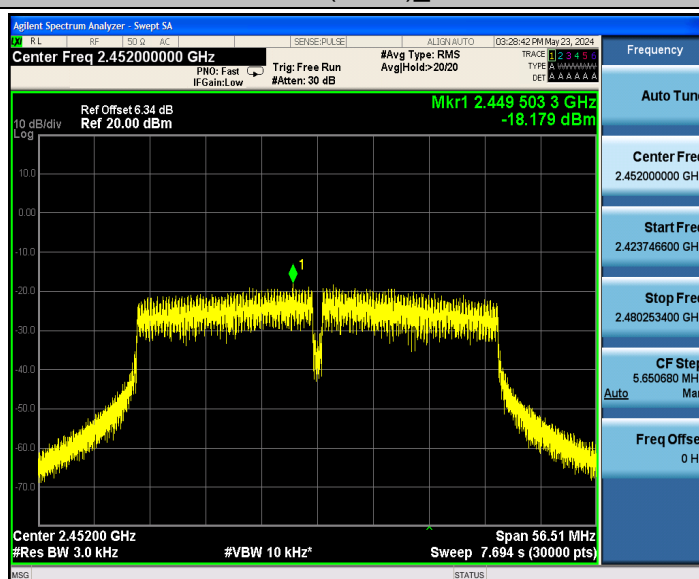
## 802.11n(HT40)\_2422



## 802.11n(HT40)\_2437



## 802.11n(HT40)\_2452



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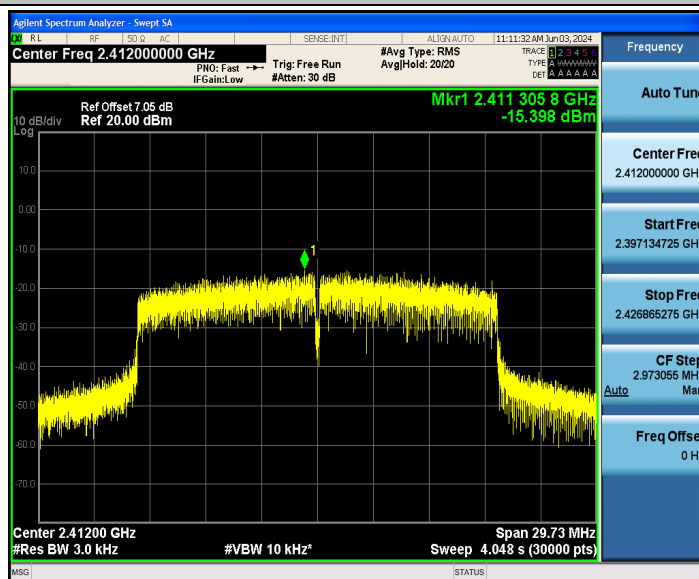
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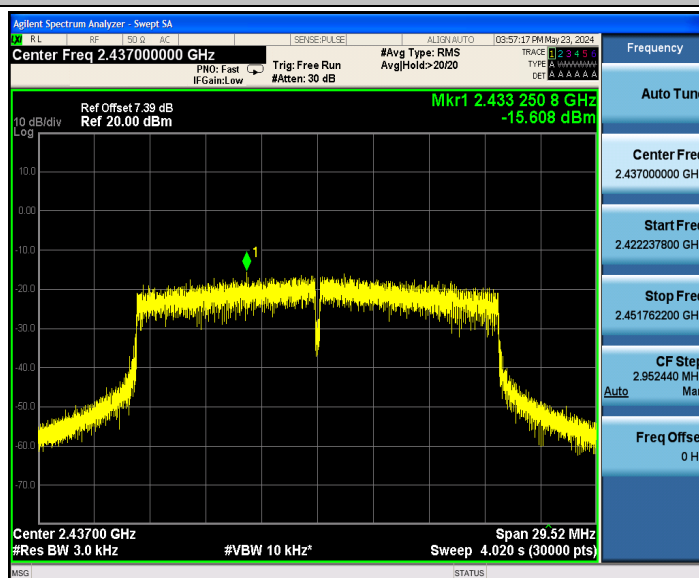
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: [yz.cnca.cn](http://yz.cnca.cn)



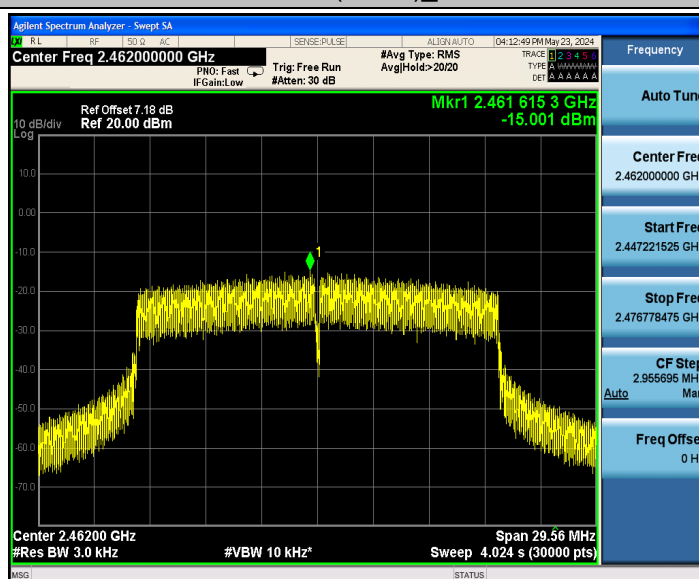
## 802.11ax(HE20)\_2412



## 802.11ax(HE20)\_2437



## 802.11ax(HE20)\_2462



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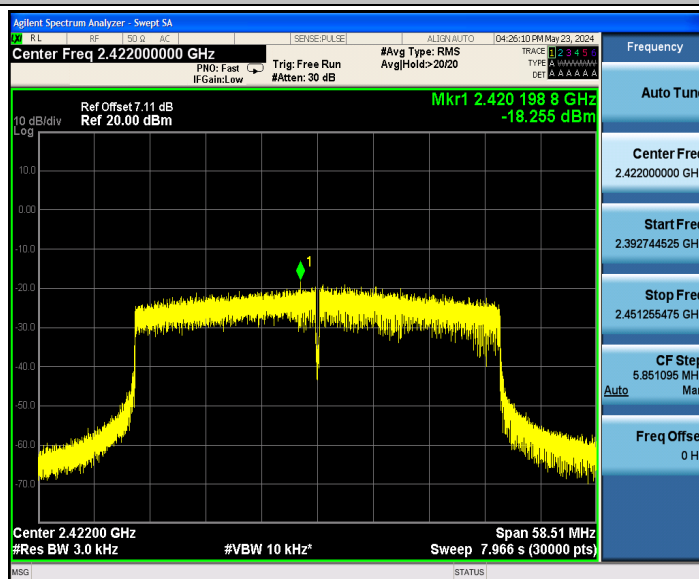
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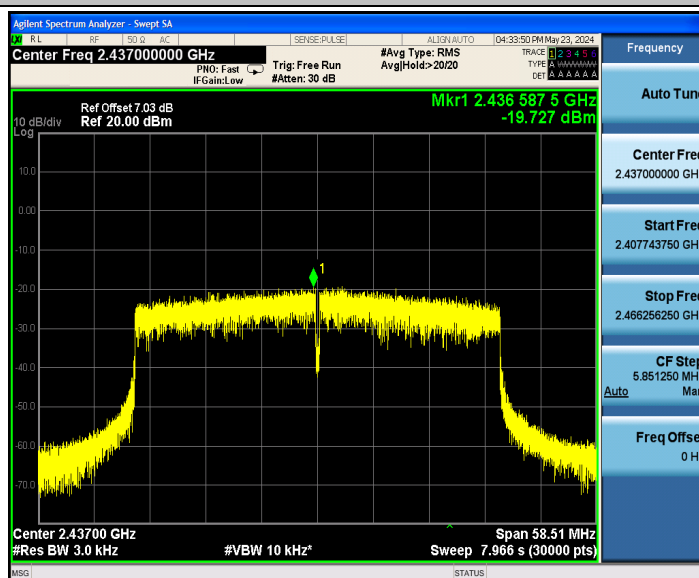
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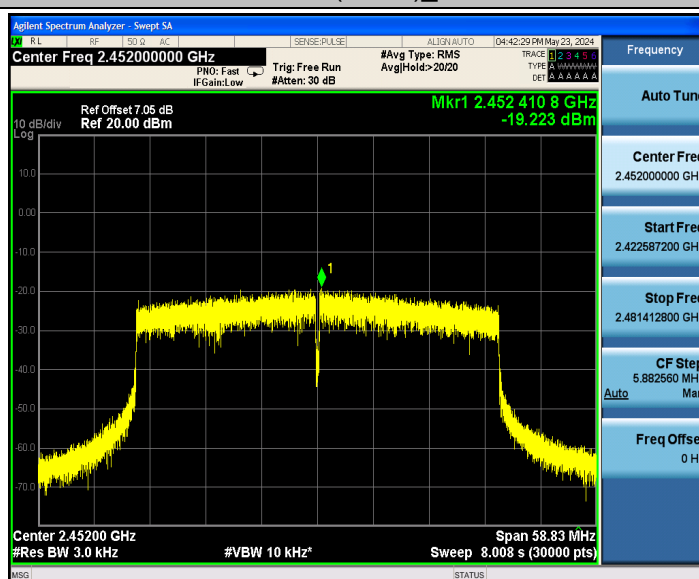
## 802.11ax(HE40)\_2422



## 802.11ax(HE40)\_2437



## 802.11ax(HE40)\_2452



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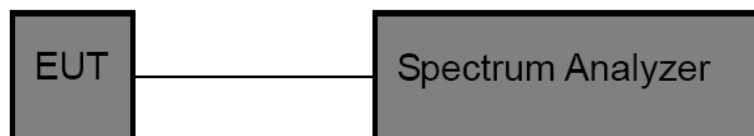
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### 3.8. Duty Cycle

#### Limit

None, for report purposes only.

#### Test Configuration



#### Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:  
Set analyzer center frequency to DTS channel center frequency.  
Set the span to 0Hz  
Set the RBW to 8MHz  
Set the VBW to 8MHz  
Detector: peak  
Sweep time: auto  
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

#### Test Mode

Please refer to the clause 2.4.

**Test Result**

| Test Mode      | Test Frequency [MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Duty Cycle Factor | 1/T Minimum VBW (kHz) | Final setting For VBW (kHz) |
|----------------|----------------------|----------------------------|--------------------------|----------------|-------------------|-----------------------|-----------------------------|
| 802.11b        | 2412                 | 8.42                       | 18.44                    | 45.66          | 3.40              | 0.119                 | 1                           |
|                | 2437                 | 8.42                       | 18.44                    | 45.66          | 3.40              | 0.119                 | 1                           |
|                | 2462                 | 8.42                       | 18.44                    | 45.66          | 3.40              | 0.119                 | 1                           |
| 802.11g        | 2412                 | 1.40                       | 11.43                    | 12.25          | 9.12              | 0.714                 | 1                           |
|                | 2437                 | 1.40                       | 11.43                    | 12.25          | 9.12              | 0.714                 | 1                           |
|                | 2462                 | 1.40                       | 11.42                    | 12.26          | 9.12              | 0.714                 | 1                           |
| 802.11n(HT20)  | 2412                 | 5.07                       | 15.11                    | 33.55          | 4.74              | 0.197                 | 1                           |
|                | 2437                 | 5.09                       | 15.11                    | 33.69          | 4.72              | 0.196                 | 1                           |
|                | 2462                 | 5.09                       | 15.12                    | 33.66          | 4.73              | 0.196                 | 1                           |
| 802.11n(HT40)  | 2422                 | 4.90                       | 16.84                    | 29.10          | 5.36              | 0.204                 | 1                           |
|                | 2437                 | 4.90                       | 14.93                    | 32.82          | 4.84              | 0.204                 | 1                           |
|                | 2452                 | 4.90                       | 14.93                    | 32.82          | 4.84              | 0.204                 | 1                           |
| 802.11ax(HE20) | 2412                 | 3.87                       | 13.90                    | 27.84          | 5.55              | 0.258                 | 2                           |
|                | 2437                 | 3.87                       | 15.03                    | 25.75          | 5.89              | 0.258                 | 2                           |
|                | 2462                 | 3.87                       | 14.31                    | 27.04          | 5.68              | 0.258                 | 2                           |
| 802.11ax(HE40) | 2422                 | 3.88                       | 14.11                    | 27.50          | 5.61              | 0.258                 | 2                           |
|                | 2437                 | 3.89                       | 13.91                    | 27.97          | 5.53              | 0.257                 | 2                           |
|                | 2452                 | 3.87                       | 13.90                    | 27.84          | 5.55              | 0.258                 | 2                           |

Note: Duty Cycle Factor =  $10 \cdot \log_{10}(1/\text{Duty Cycle})$