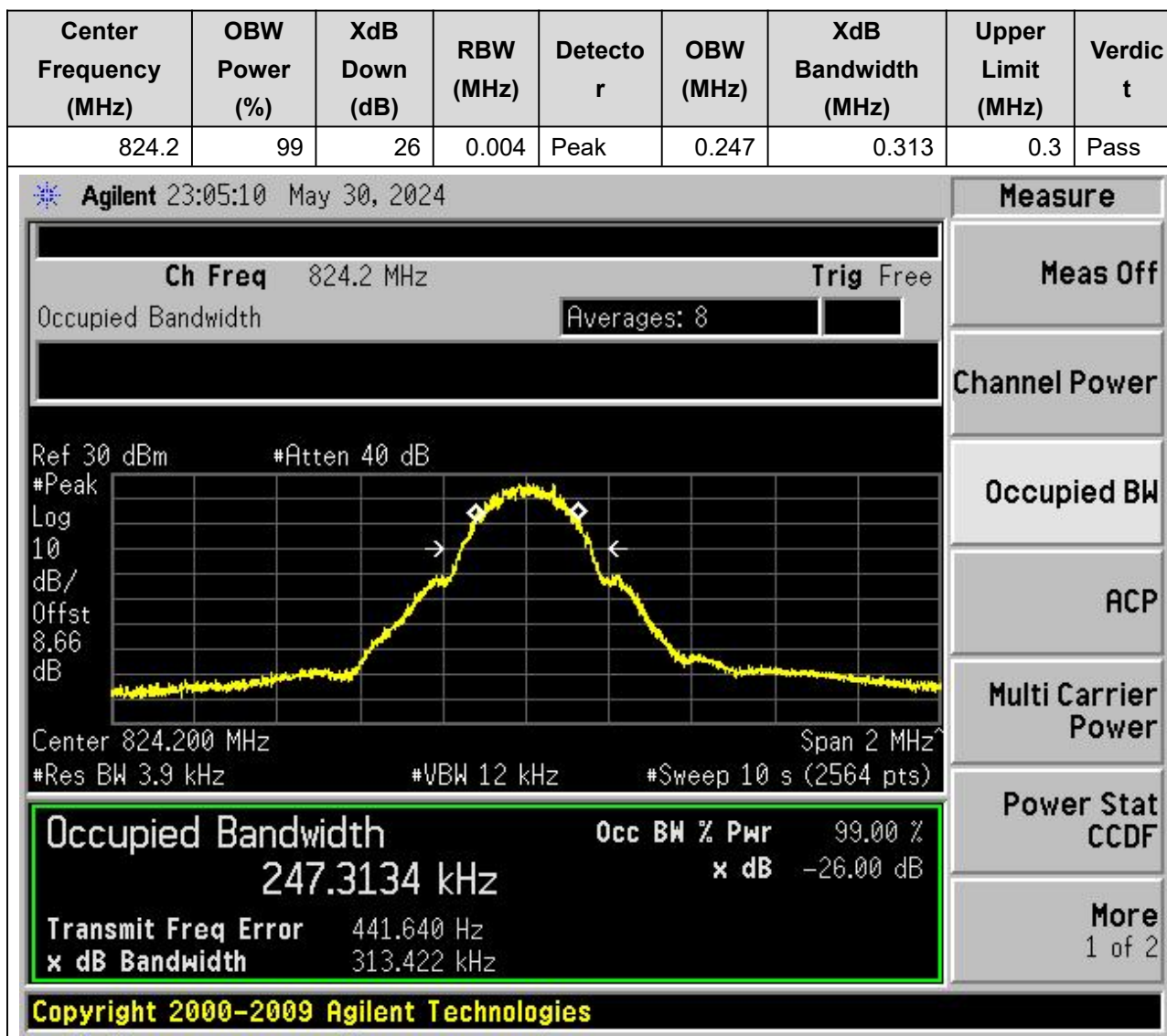


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## **Annex A.3 Occupied Bandwidth**

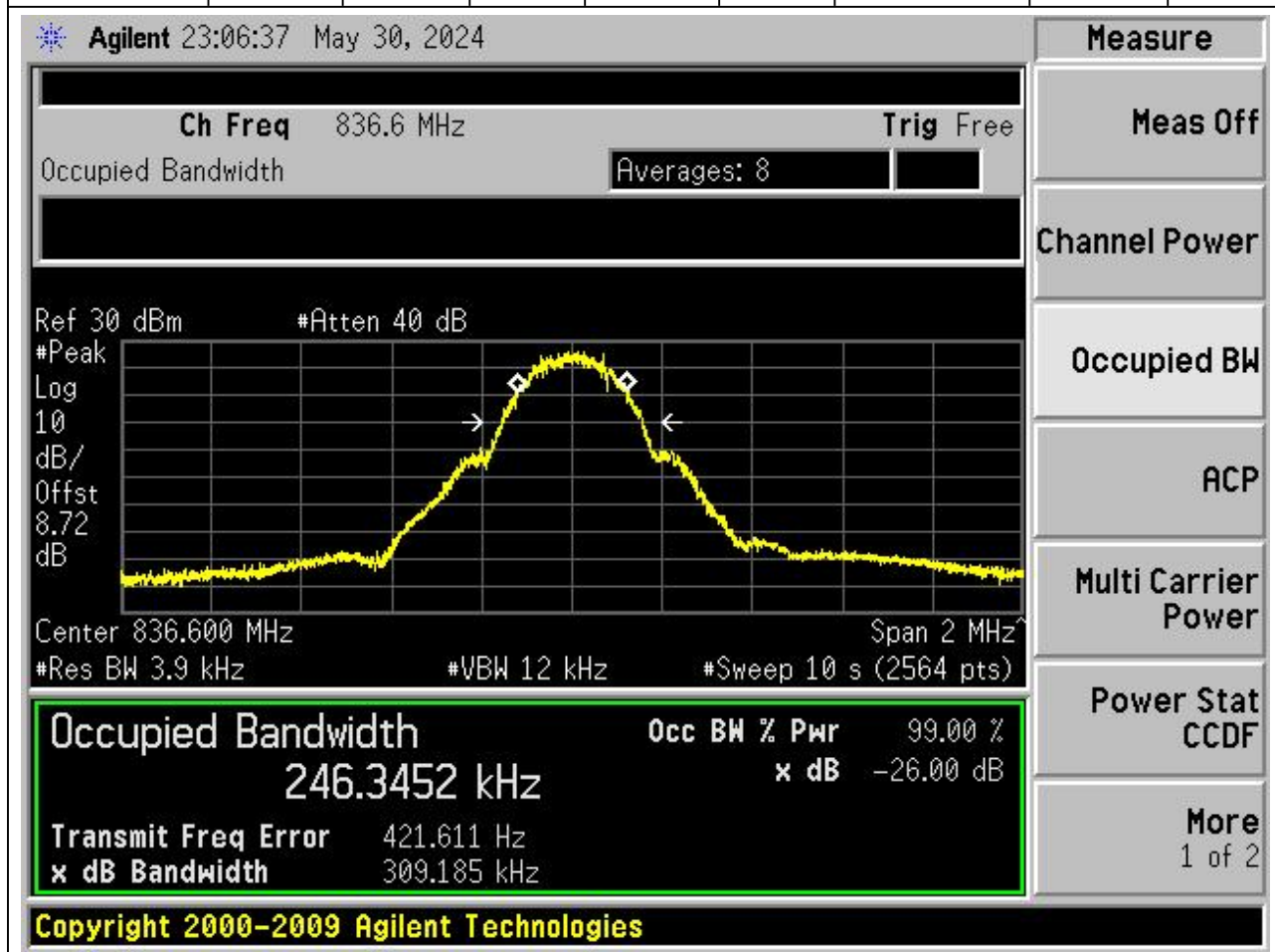
## 1. GSM\_GSM850

### 1.1 GSM Occupied Bandwidth\_Part22-24(NTNV)(Channel:128)



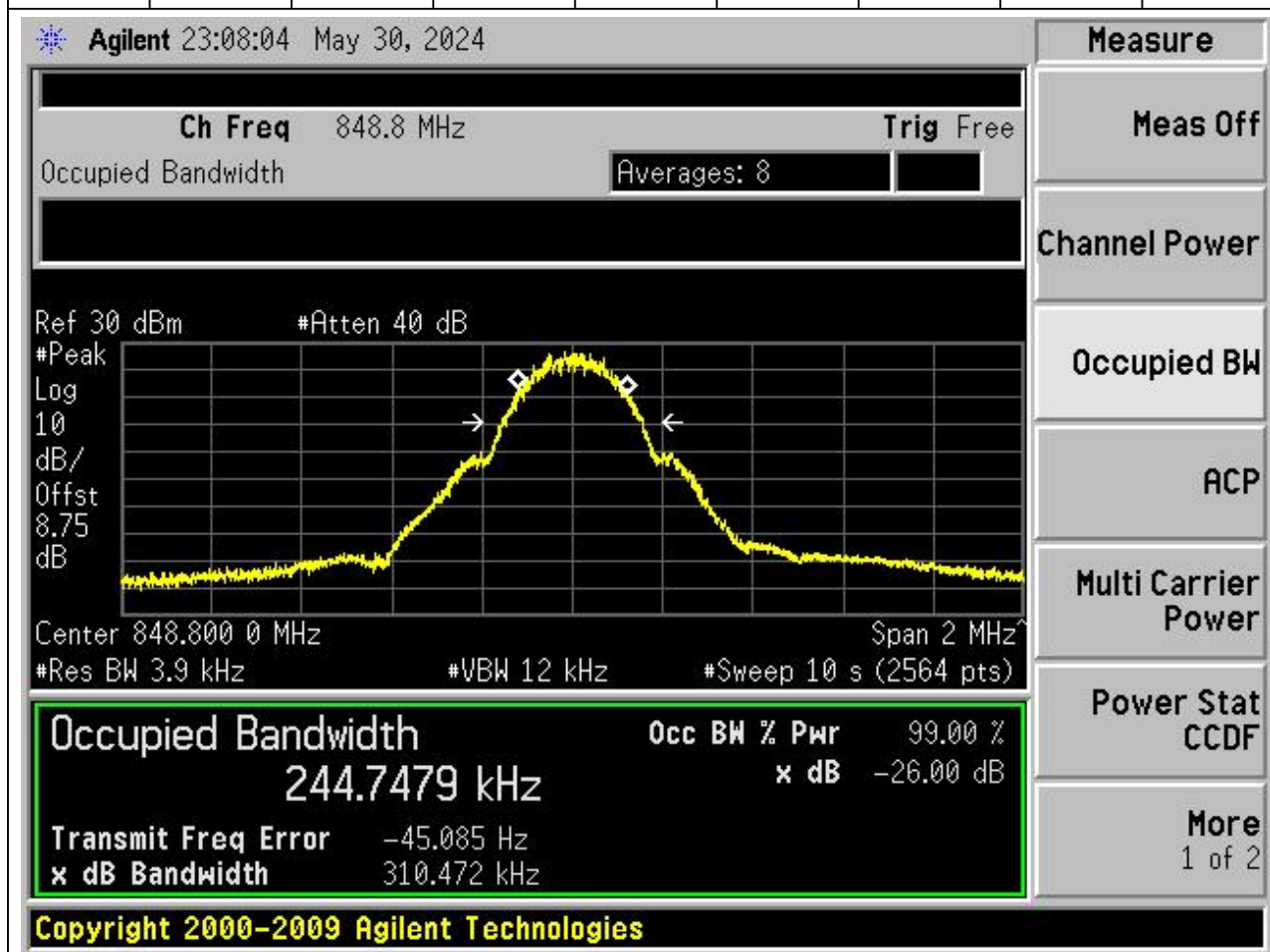
## 1.2 GSM Occupied Bandwidth\_Part22-24(NTNV)(Channel:190)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 836.6                  | 99            | 26            | 0.004     | Peak     | 0.246     | 0.309               | 0.3               | Pass    |



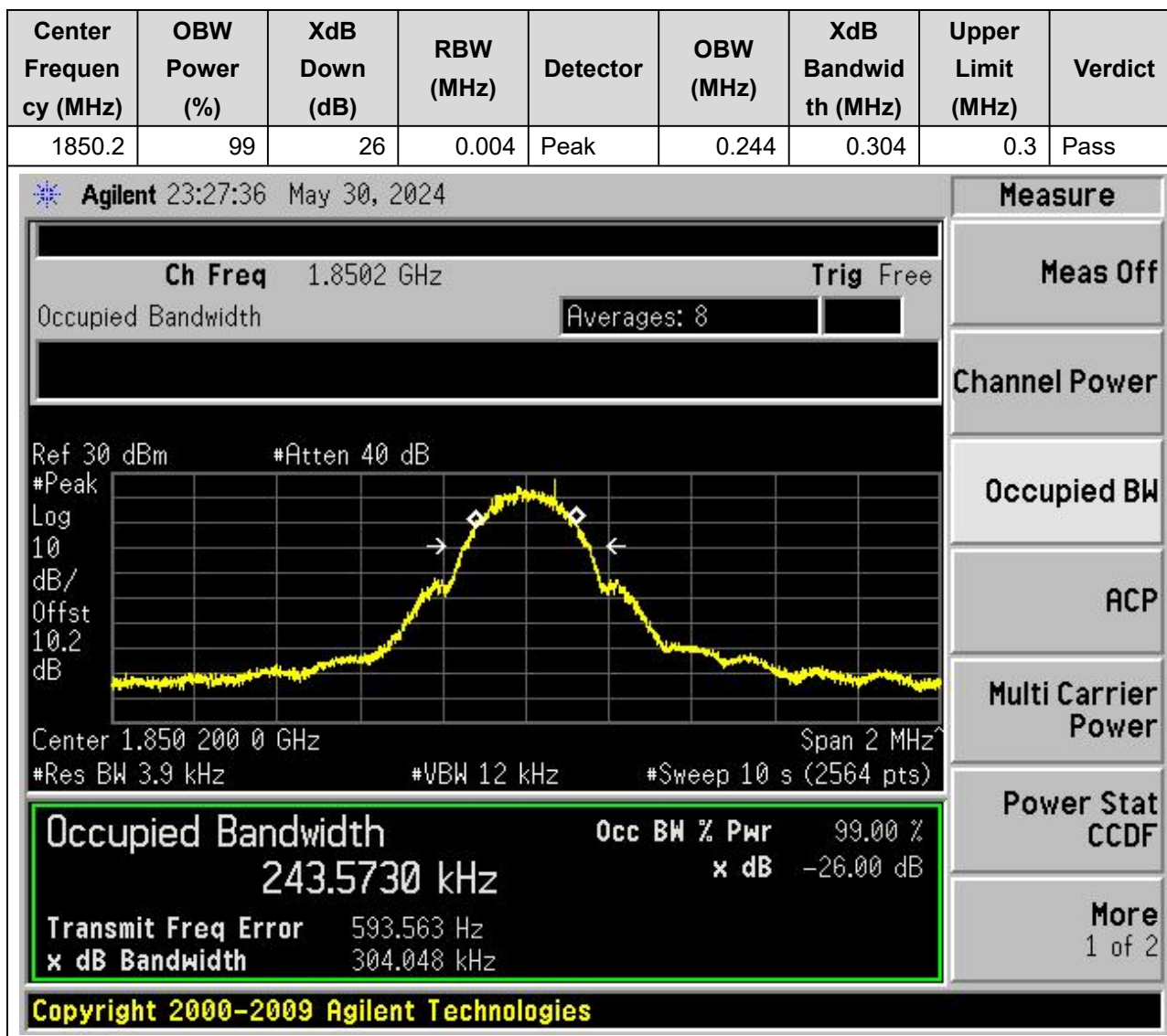
### 1.3 GSM Occupied Bandwidth\_Part22-24(NTNV)(Channel:251)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 848.8                  | 99            | 26            | 0.004     | Peak     | 0.245     | 0.31                | 0.3               | Pass    |



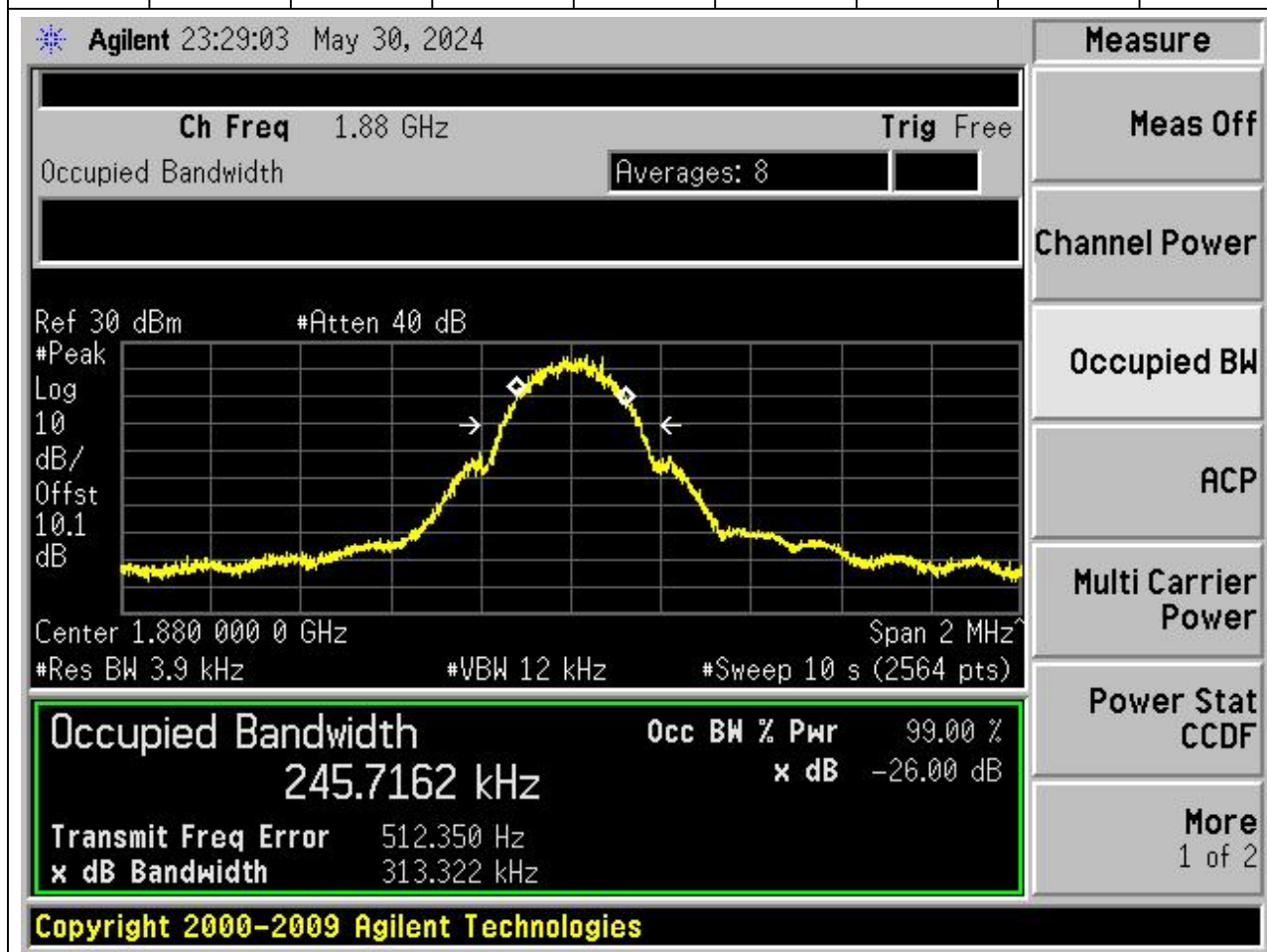
## 2. GSM\_PCS

### 2.1 GSM Occupied Bandwidth\_Part22-24(NTNV)(Channel:512)



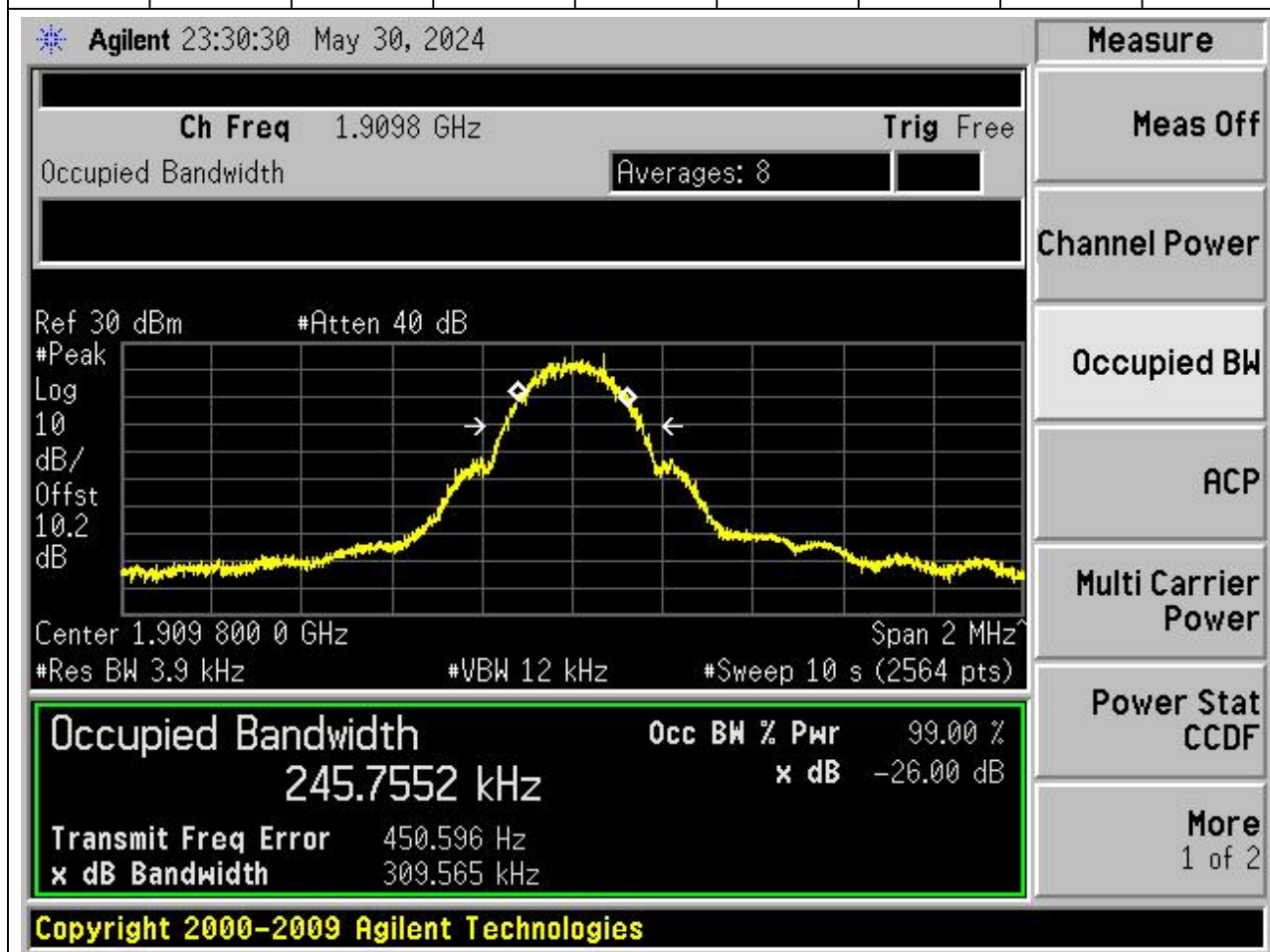
## 2.2 GSM Occupied Bandwidth\_Part22-24(NTNV)(Channel:661)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1880                   | 99            | 26            | 0.004     | Peak     | 0.246     | 0.313               | 0.3               | Pass    |



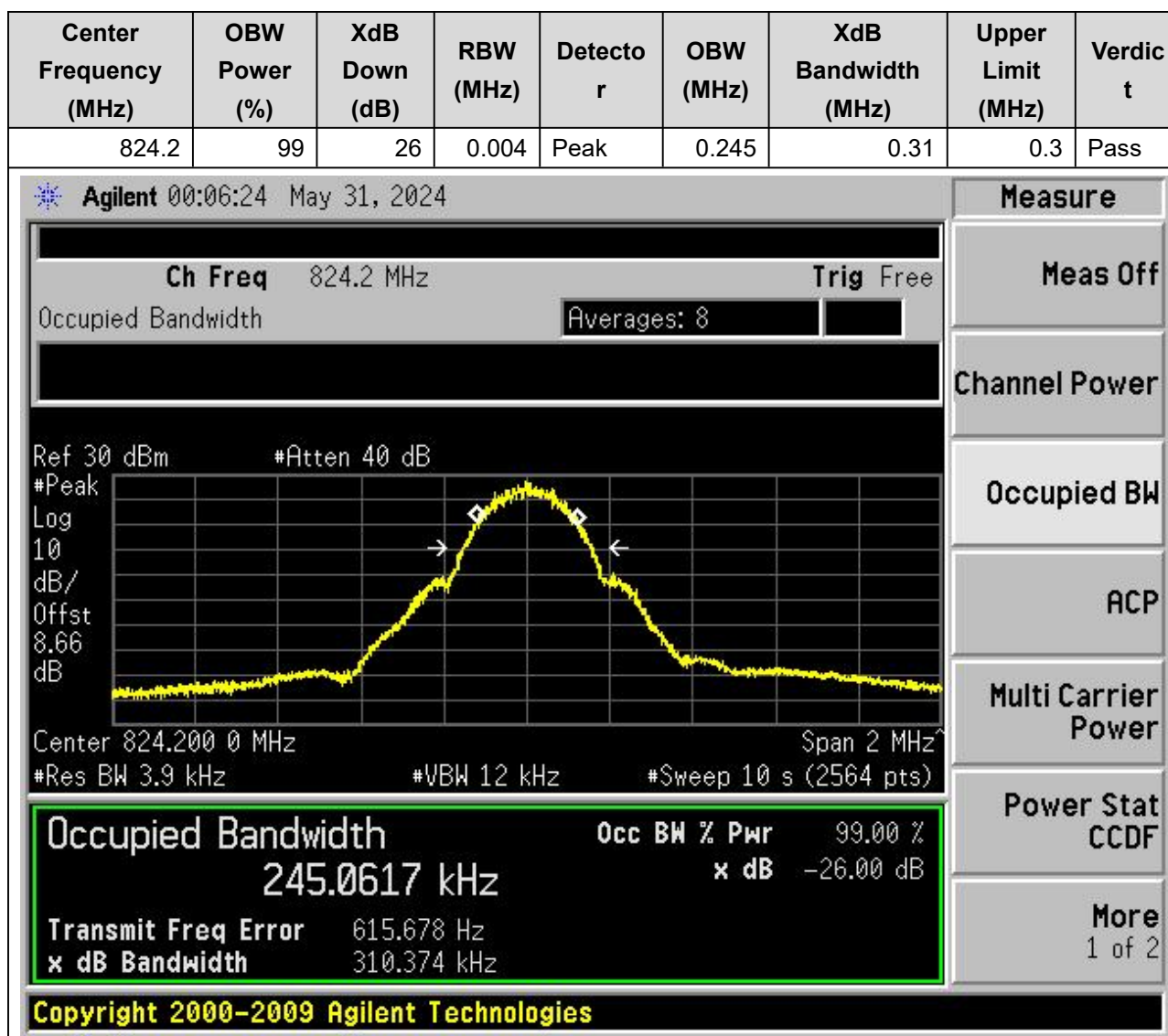
## 2.3 GSM Occupied Bandwidth\_Part22-24(NTNV)(Channel:810)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1909.8                 | 99            | 26            | 0.004     | Peak     | 0.246     | 0.31                | 0.3               | Pass    |



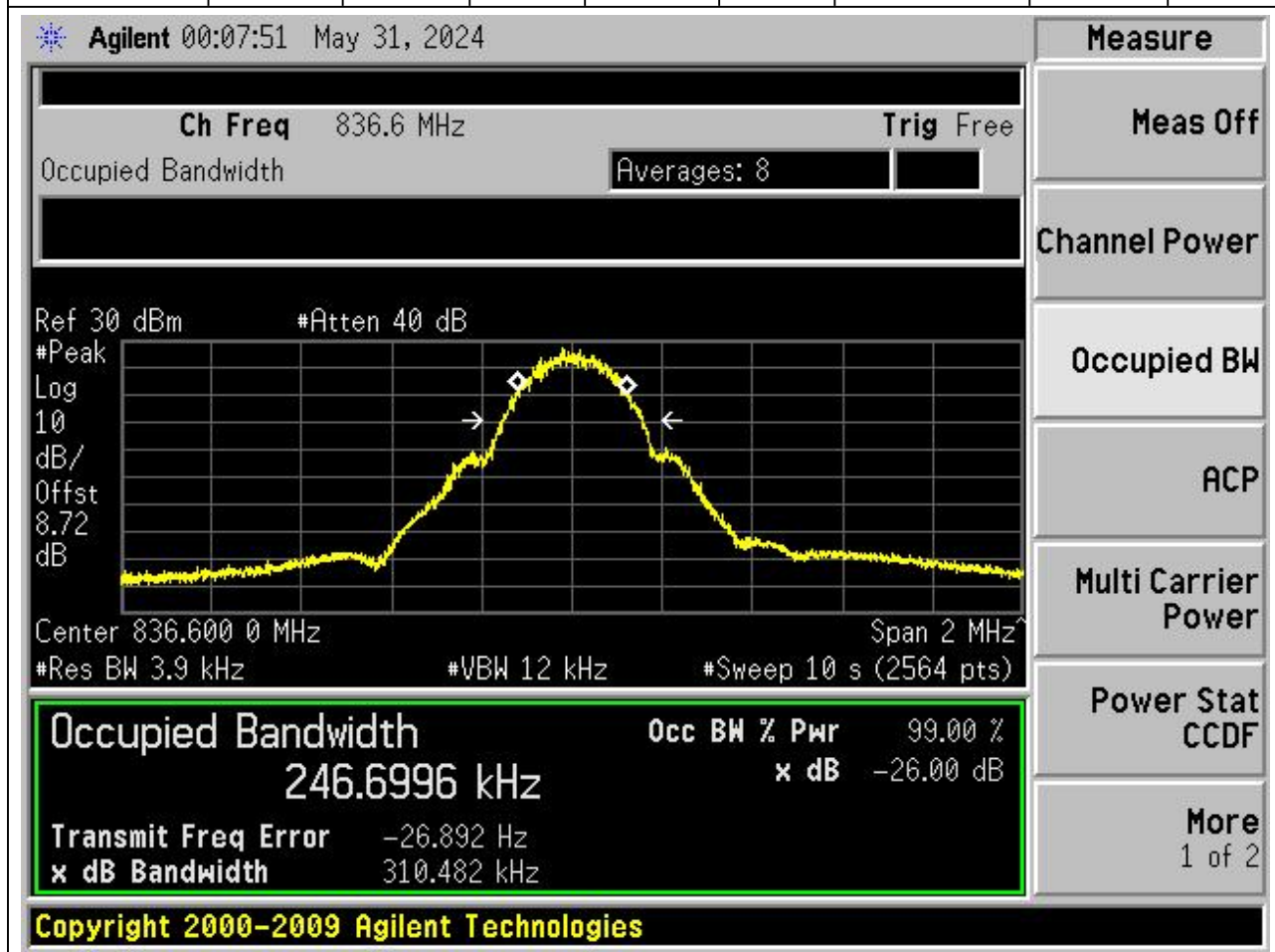
### 3. GPRS\_GSM850

#### 3.1 GPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:128)



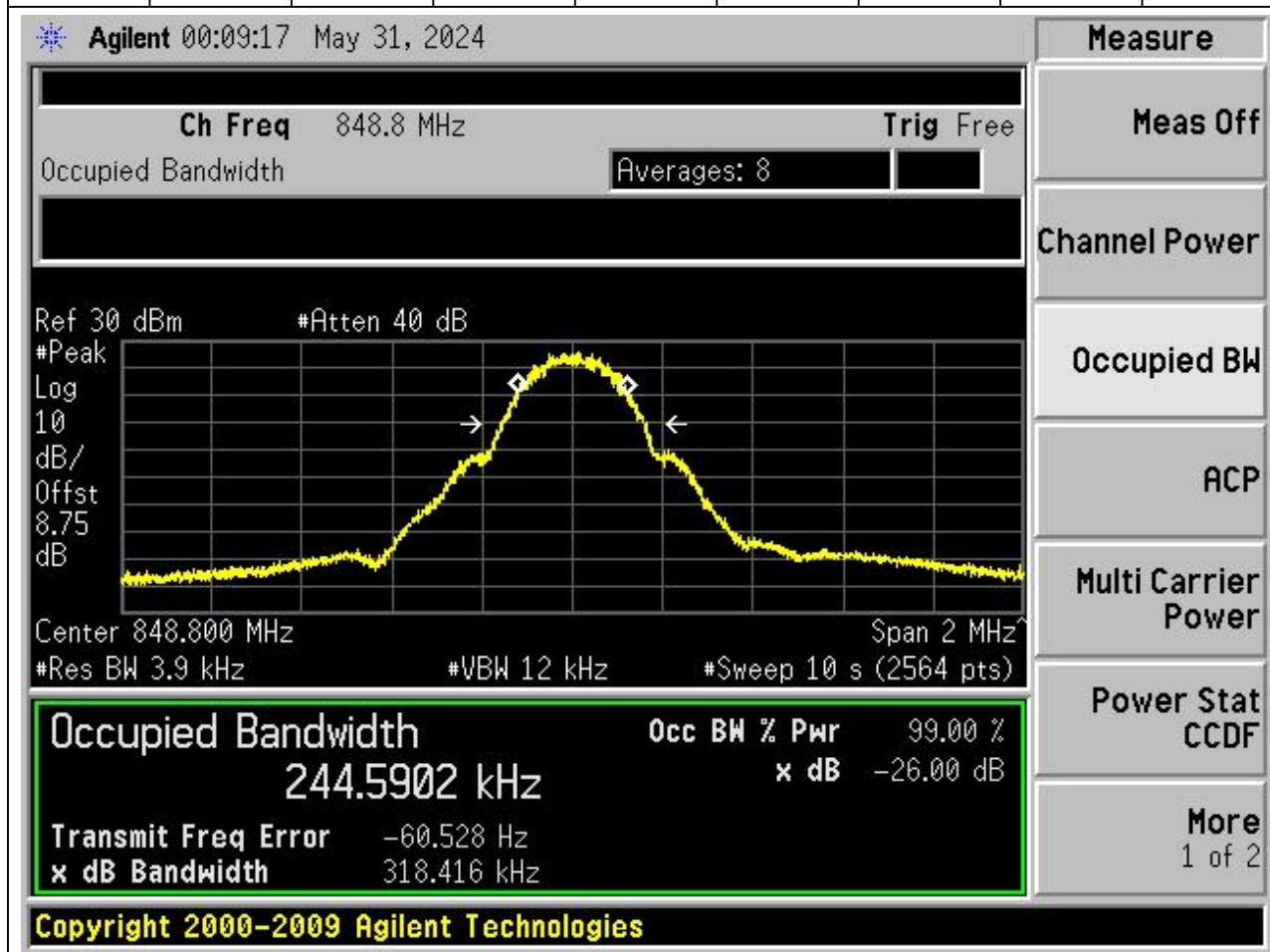
### 3.2 GPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:190)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 836.6                  | 99            | 26            | 0.004     | Peak     | 0.247     | 0.31                | 0.3               | Pass    |



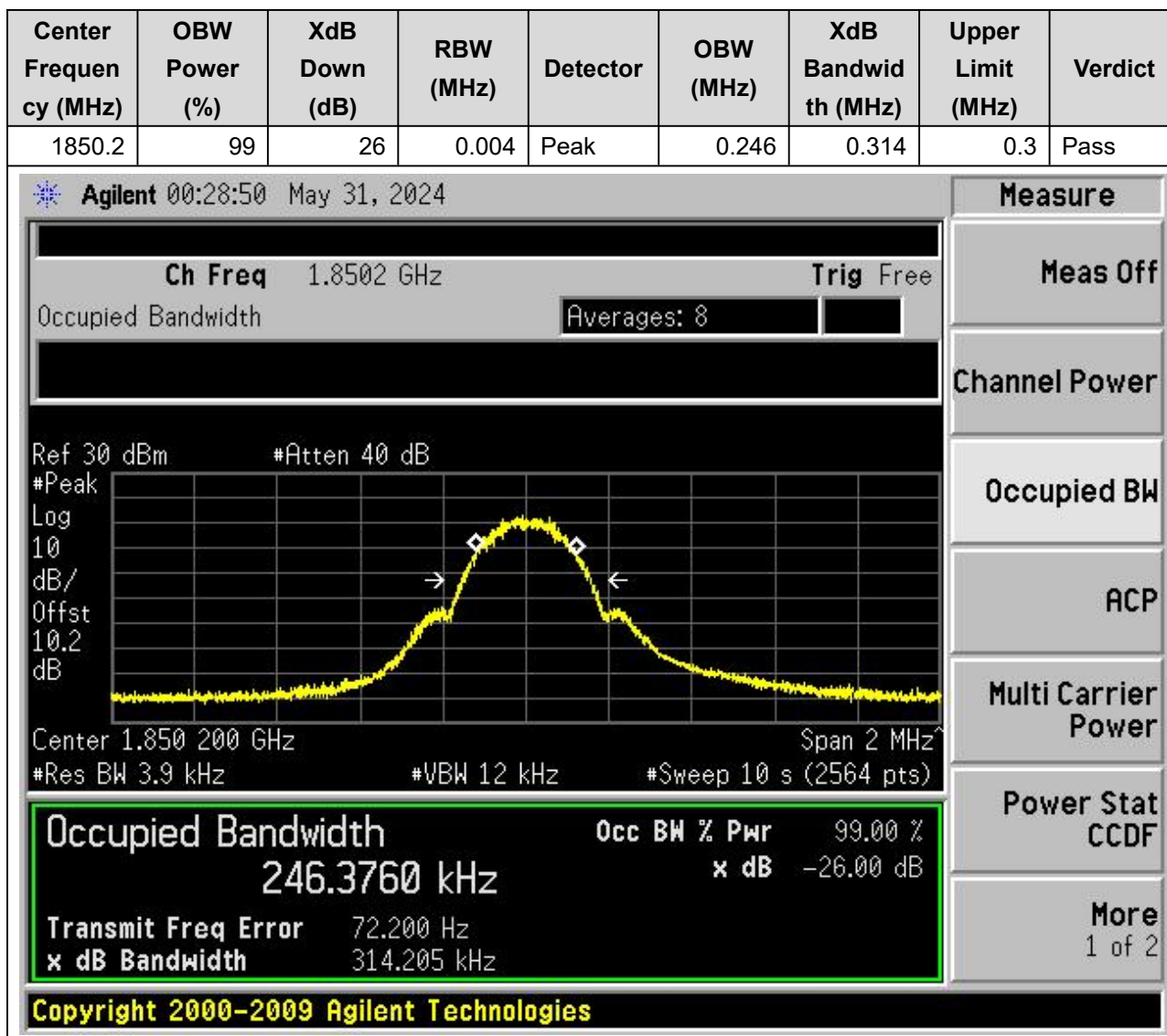
### 3.3 GPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:251)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 848.8                  | 99            | 26            | 0.004     | Peak     | 0.245     | 0.318               | 0.3               | Pass    |



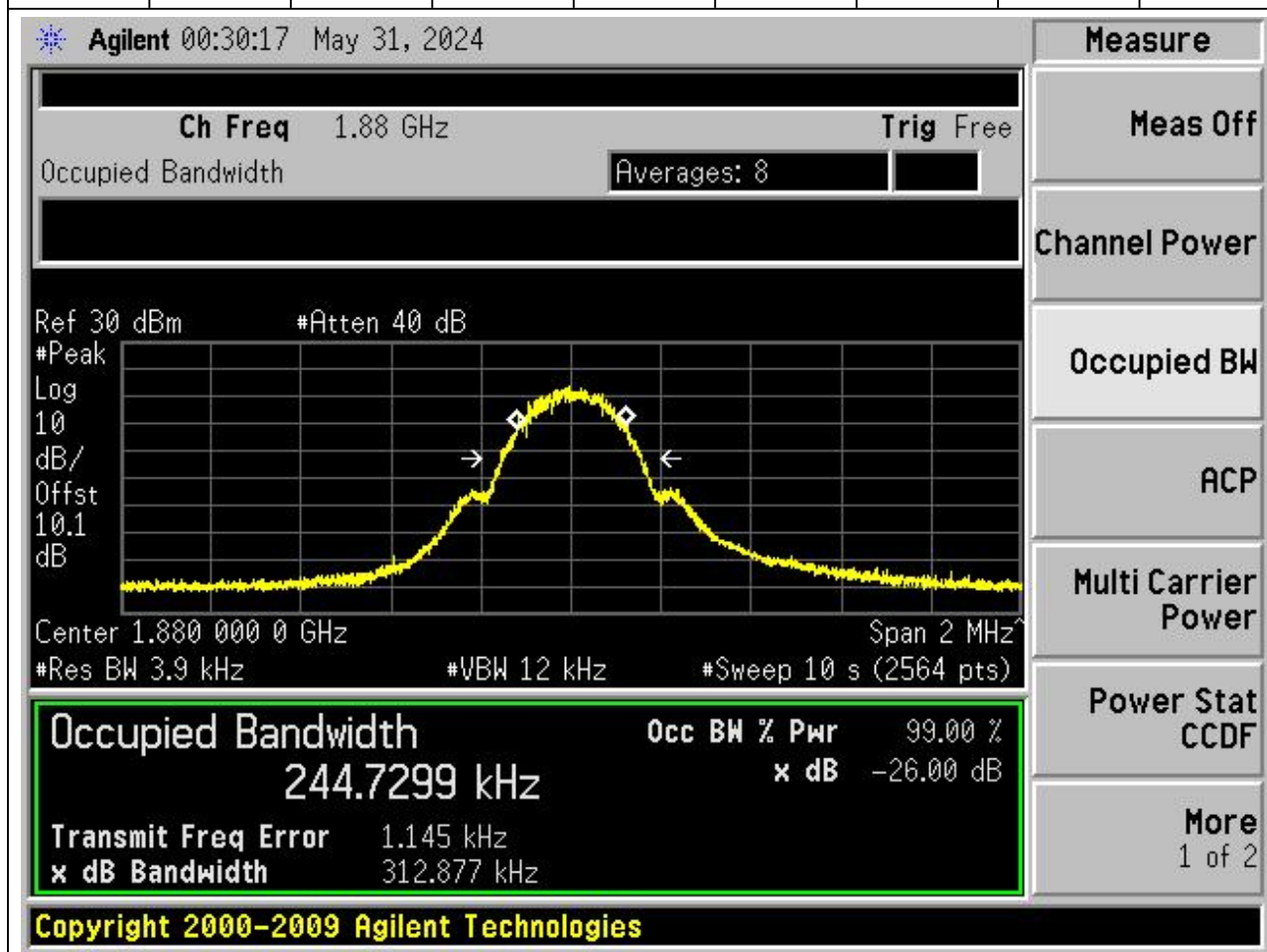
## 4. GPRS\_PCS

### 4.1 GPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:512)



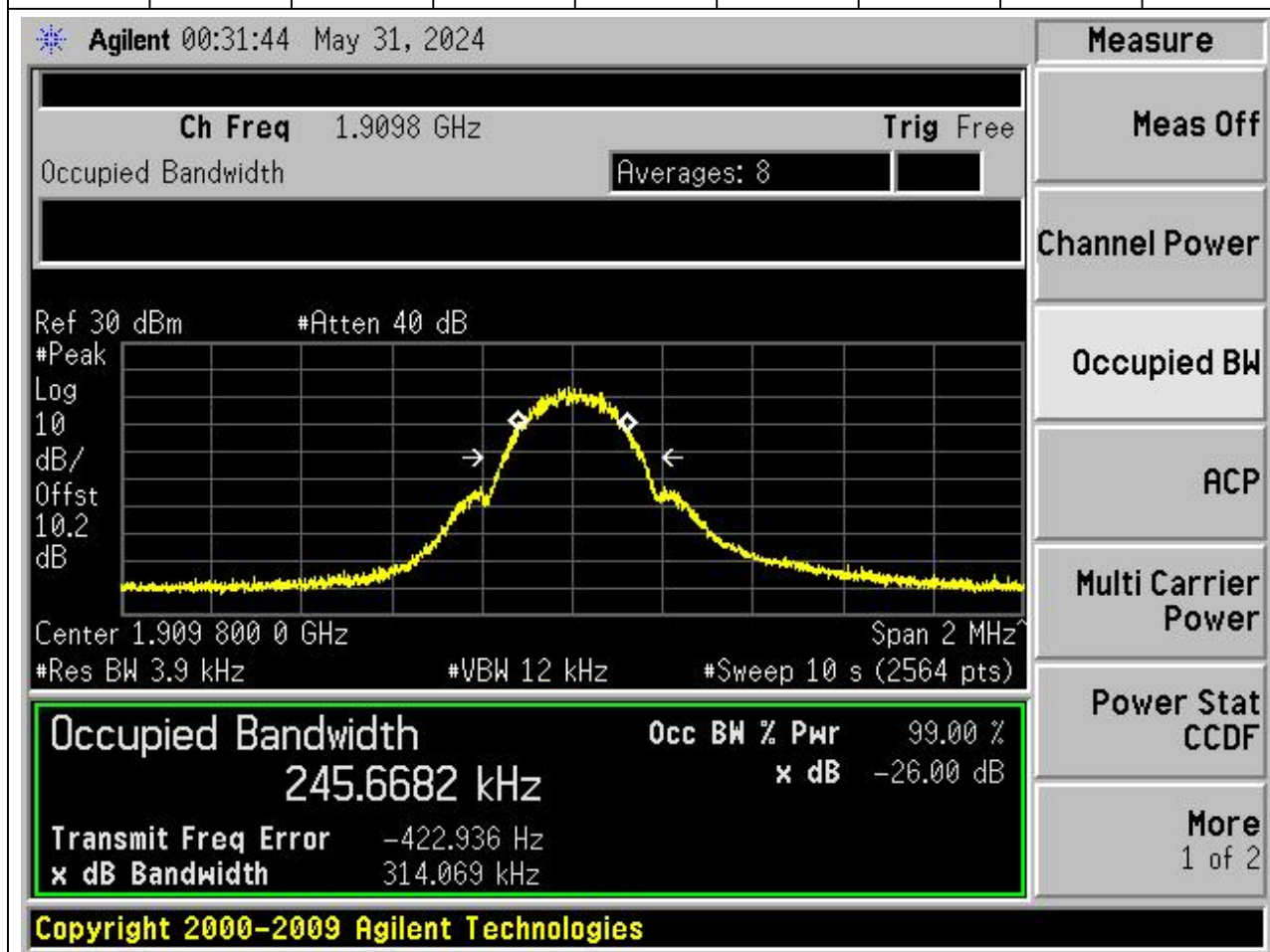
## 4.2 GPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:661)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1880                   | 99            | 26            | 0.004     | Peak     | 0.245     | 0.313               | 0.3               | Pass    |



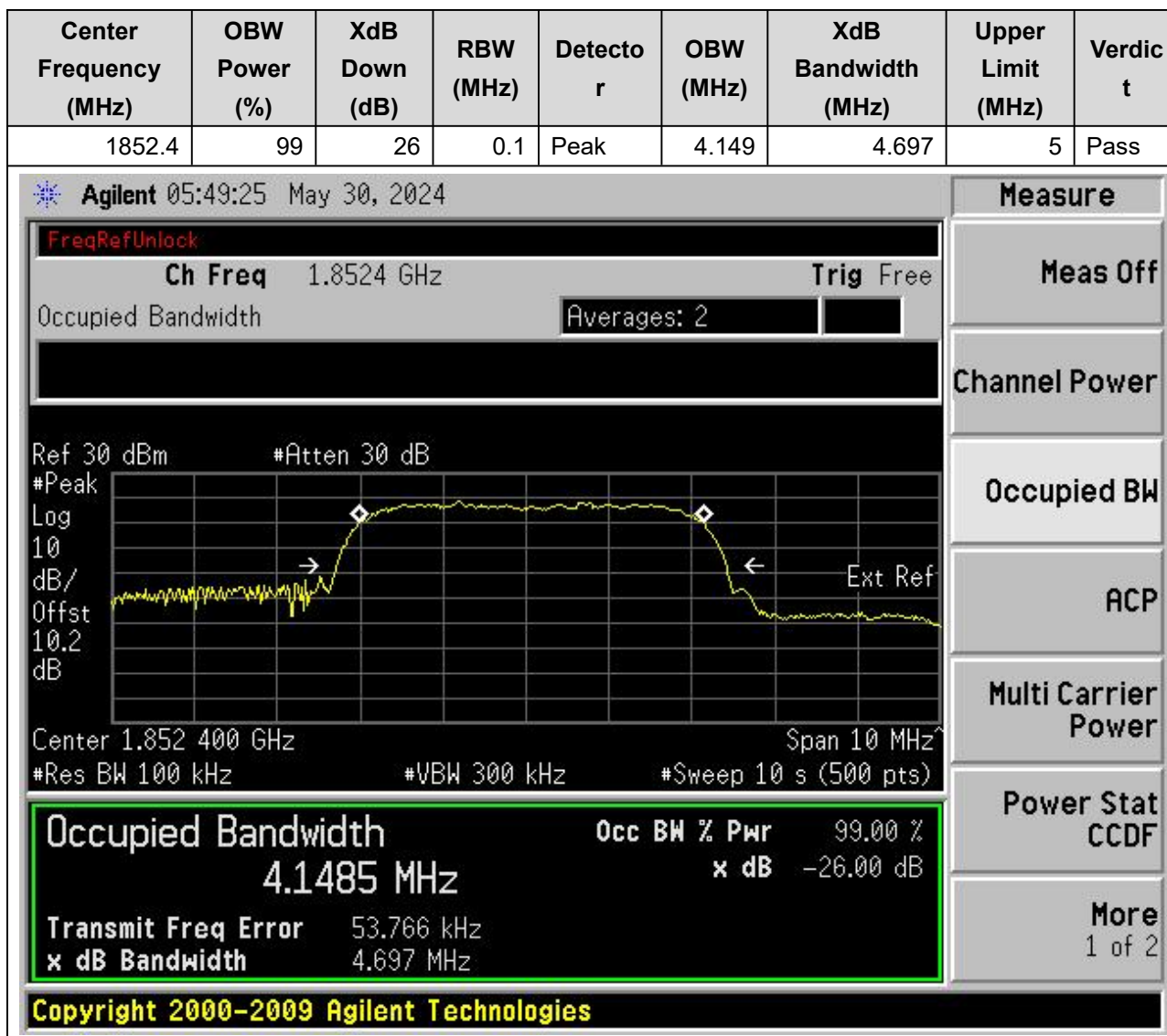
### 4.3 GPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:810)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1909.8                 | 99            | 26            | 0.004     | Peak     | 0.246     | 0.314               | 0.3               | Pass    |



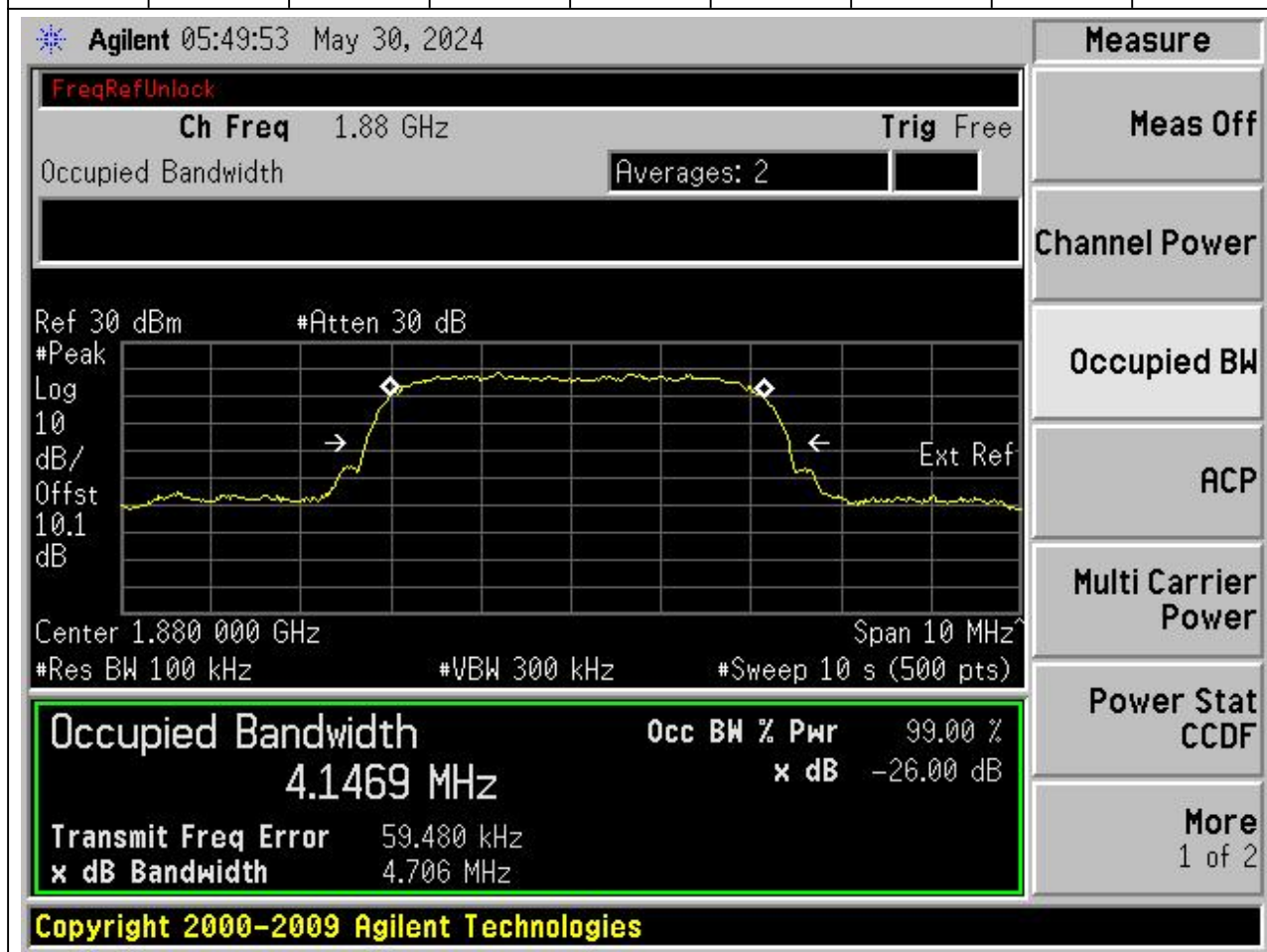
## 5. WCDMA\_Band2

### 5.1 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:9262)



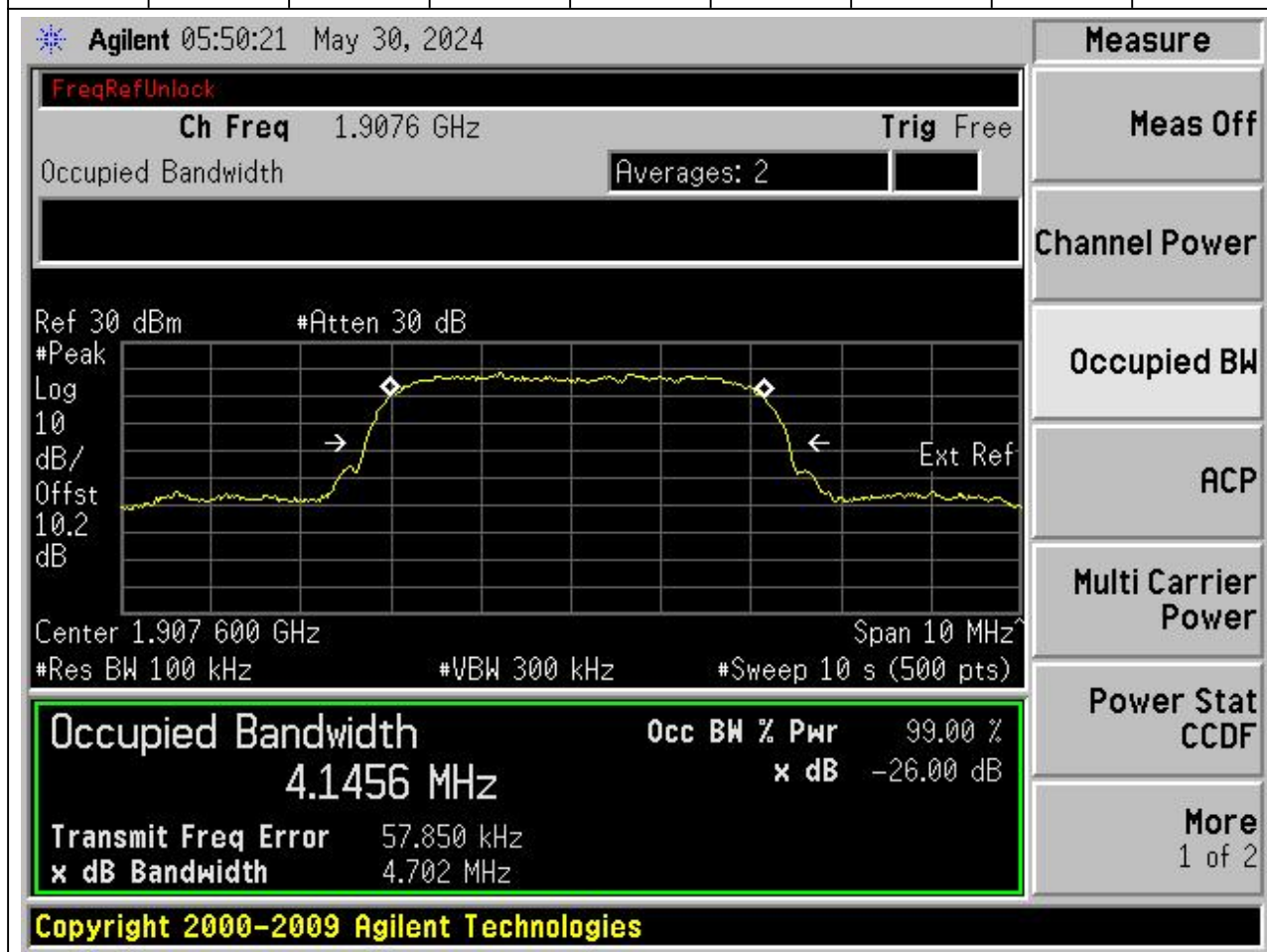
## 5.2 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:9400)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1880                   | 99            | 26            | 0.1       | Peak     | 4.147     | 4.706               | 5                 | Pass    |



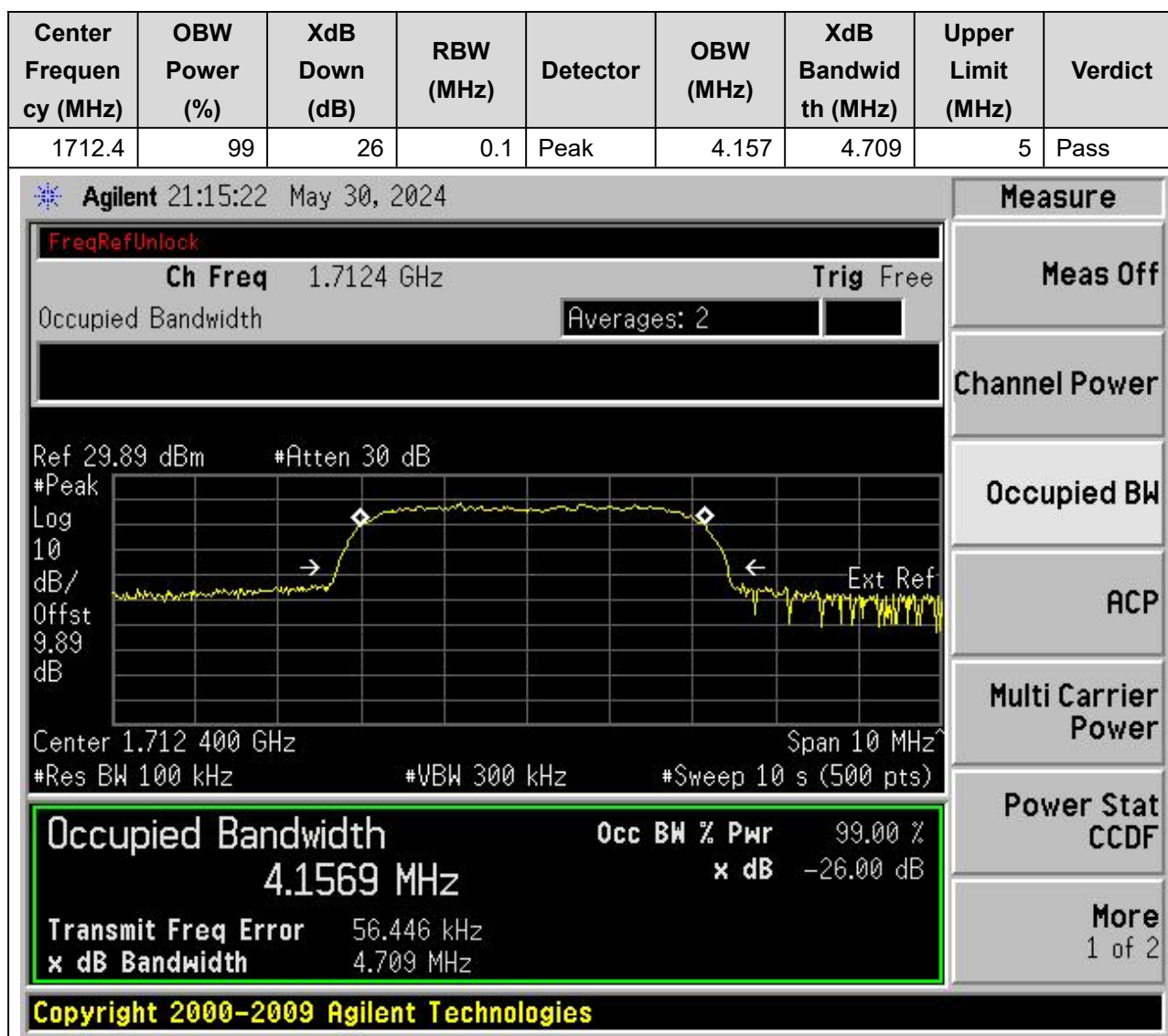
### 5.3 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:9538)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1907.6                 | 99            | 26            | 0.1       | Peak     | 4.146     | 4.702               | 5                 | Pass    |



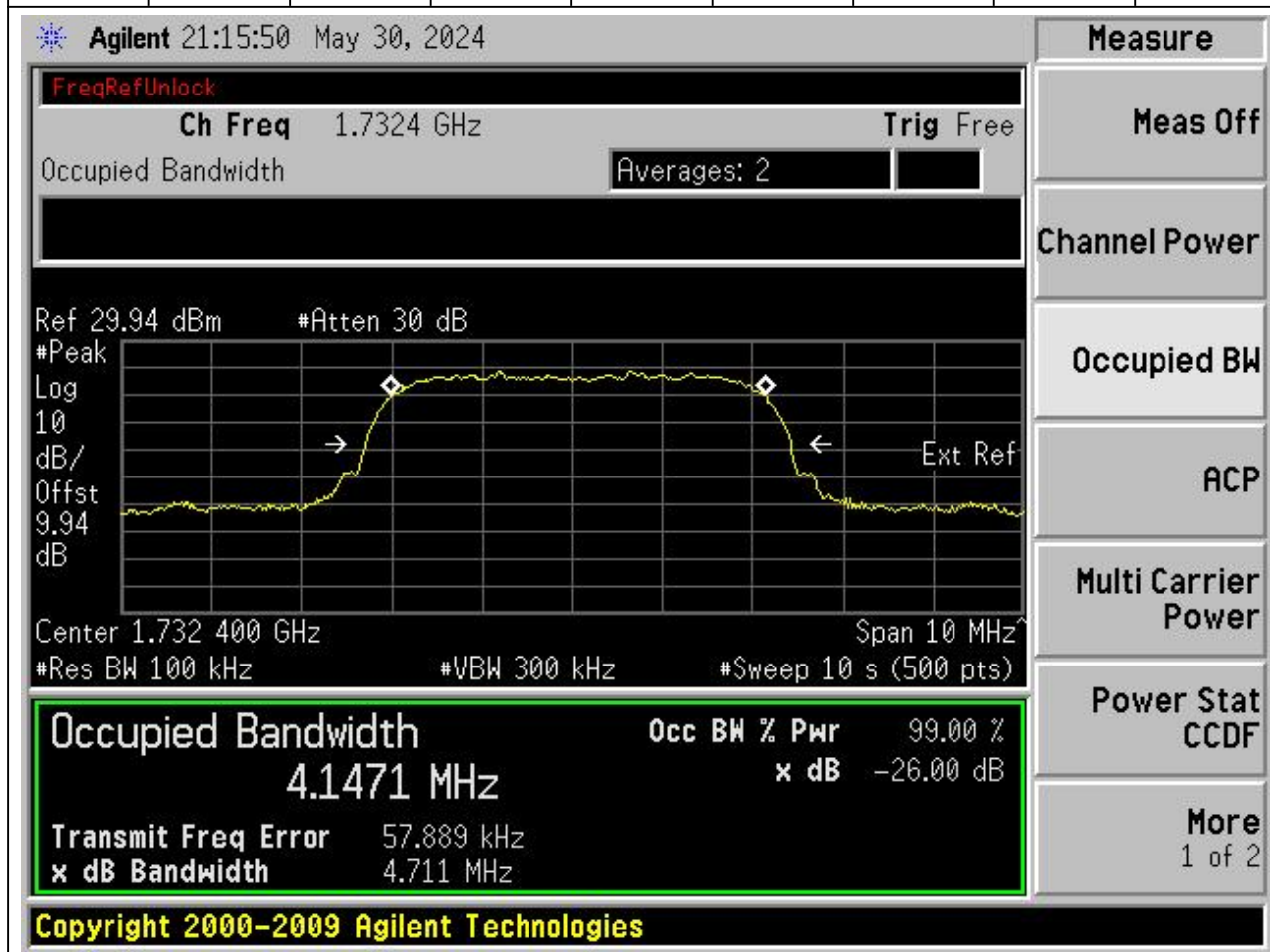
## 6. WCDMA\_Band4

### 6.1 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:1312)



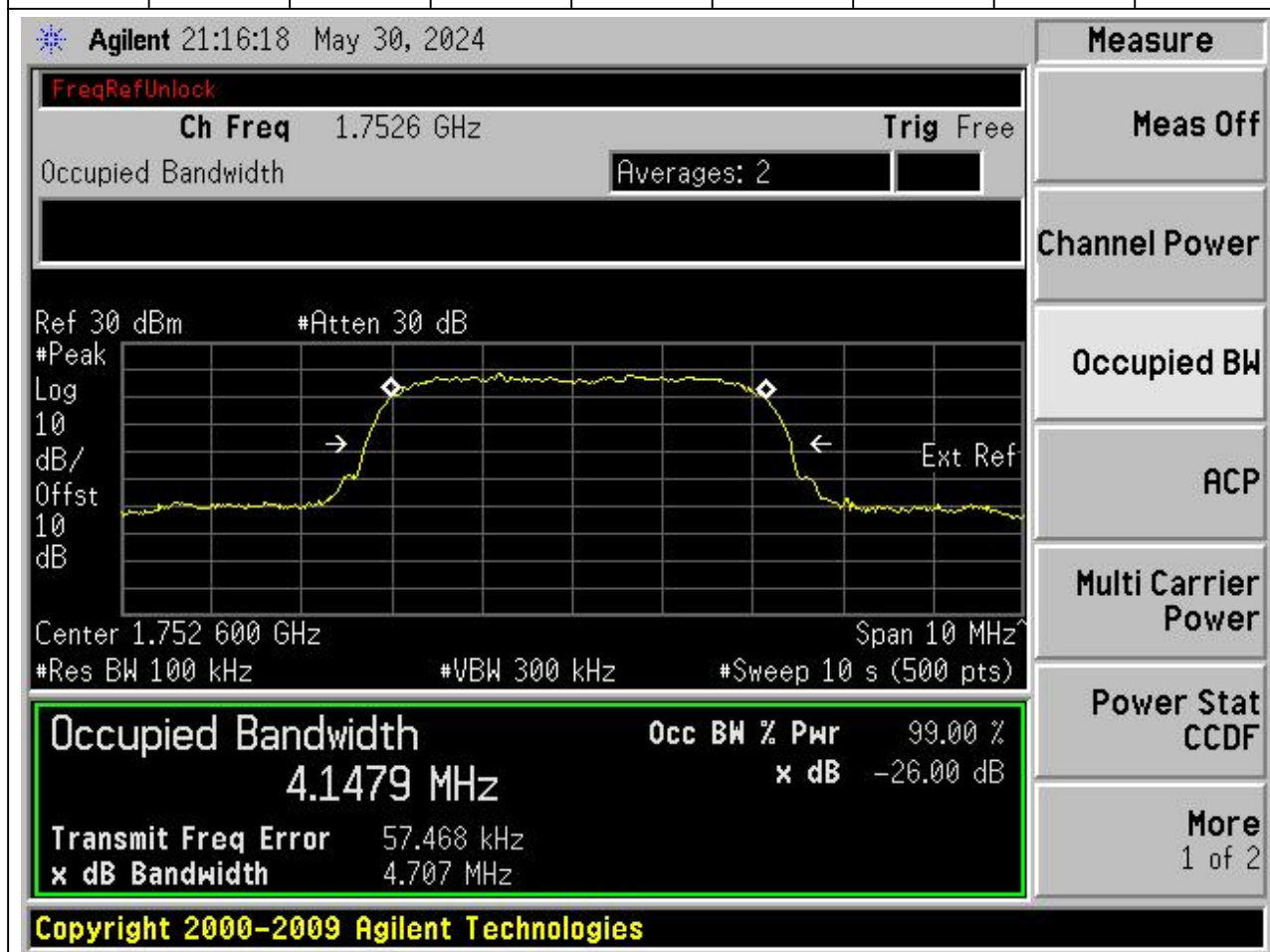
## 6.2 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:1412)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1732.4                 | 99            | 26            | 0.1       | Peak     | 4.147     | 4.711               | 5                 | Pass    |



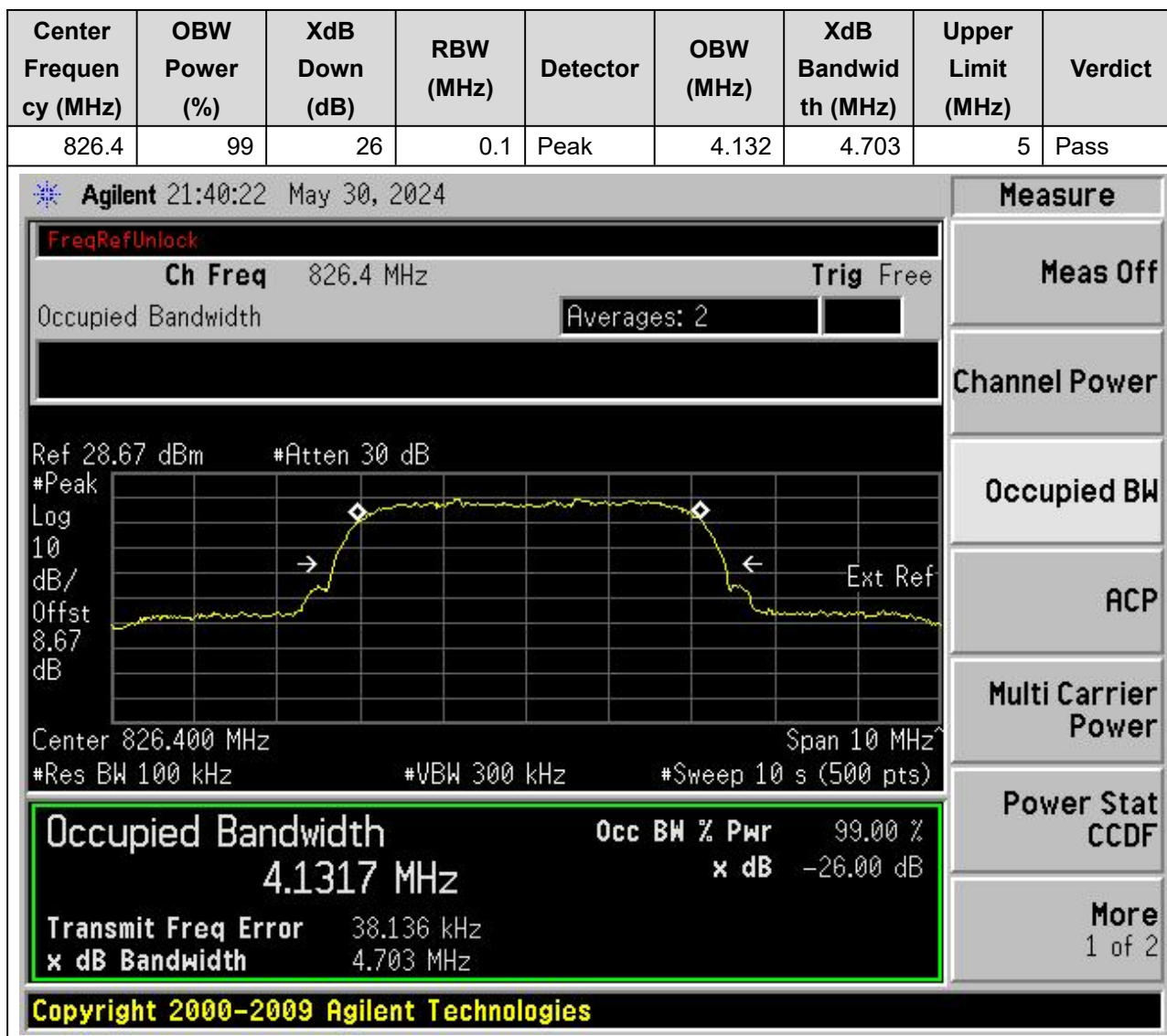
### 6.3 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:1513)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1752.6                 | 99            | 26            | 0.1       | Peak     | 4.148     | 4.707               | 5                 | Pass    |



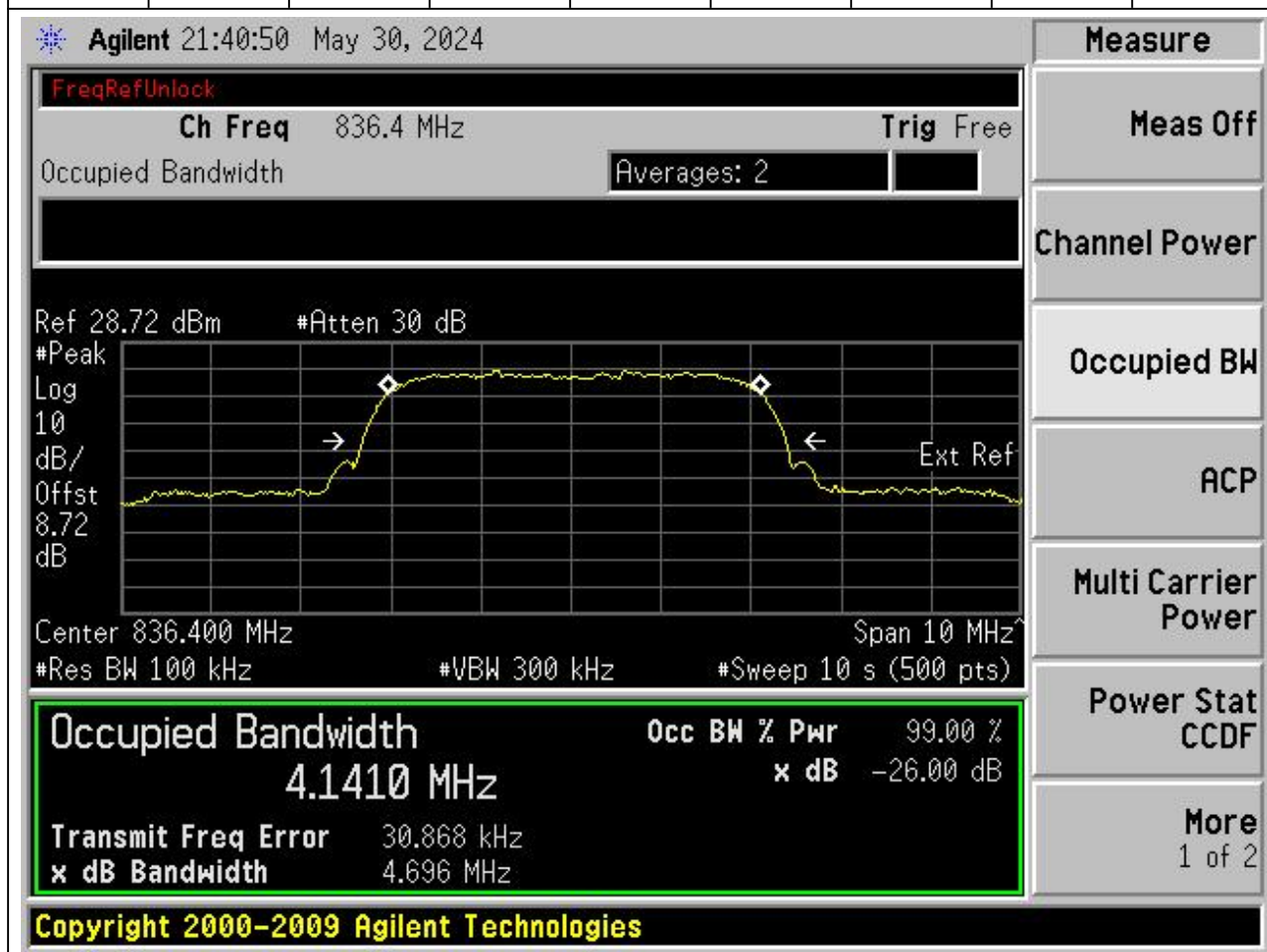
## 7. WCDMA\_Band5

### 7.1 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:4132)



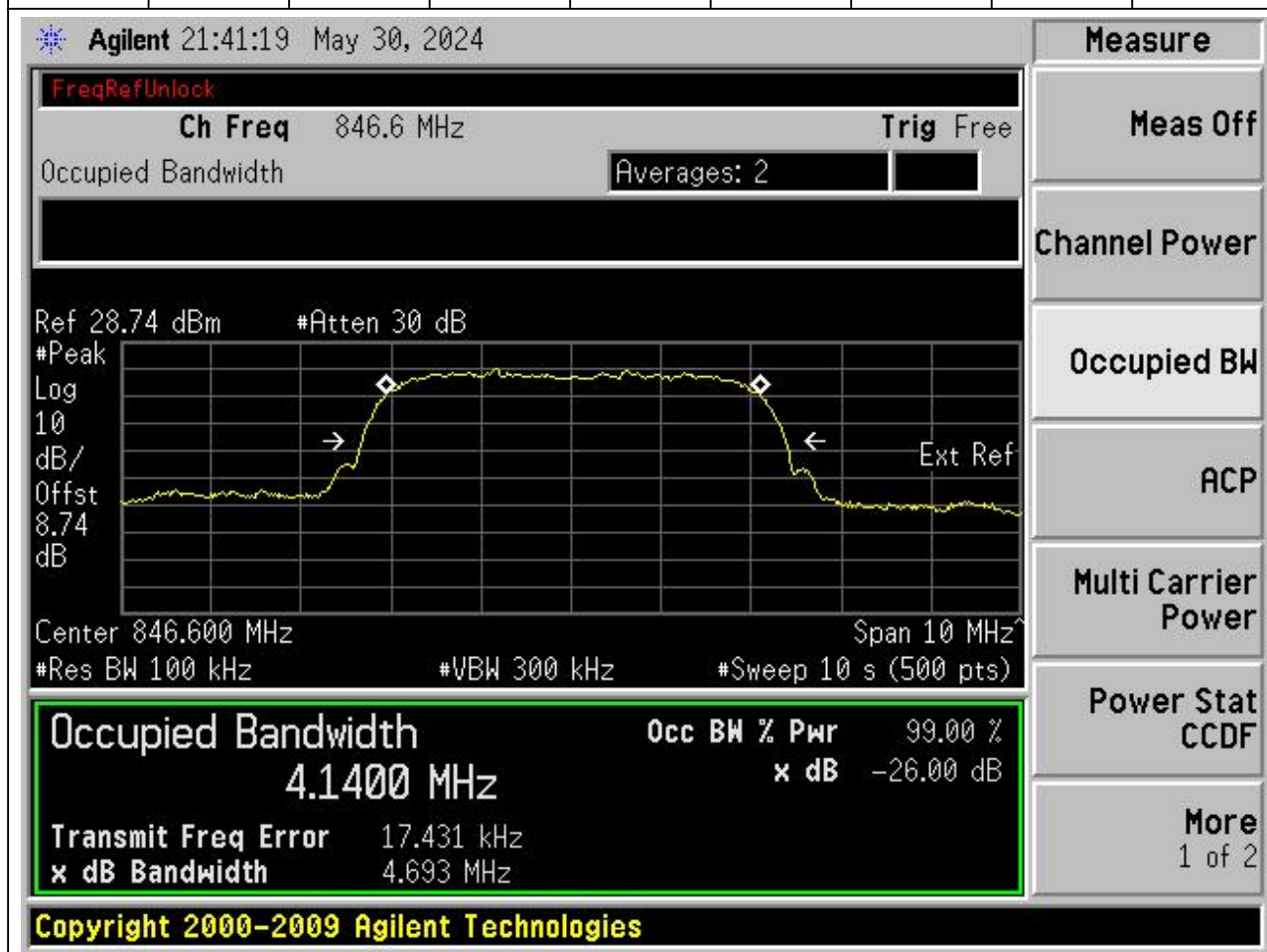
## 7.2 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:4182)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 836.4                  | 99            | 26            | 0.1       | Peak     | 4.141     | 4.696               | 5                 | Pass    |



### 7.3 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:4233)

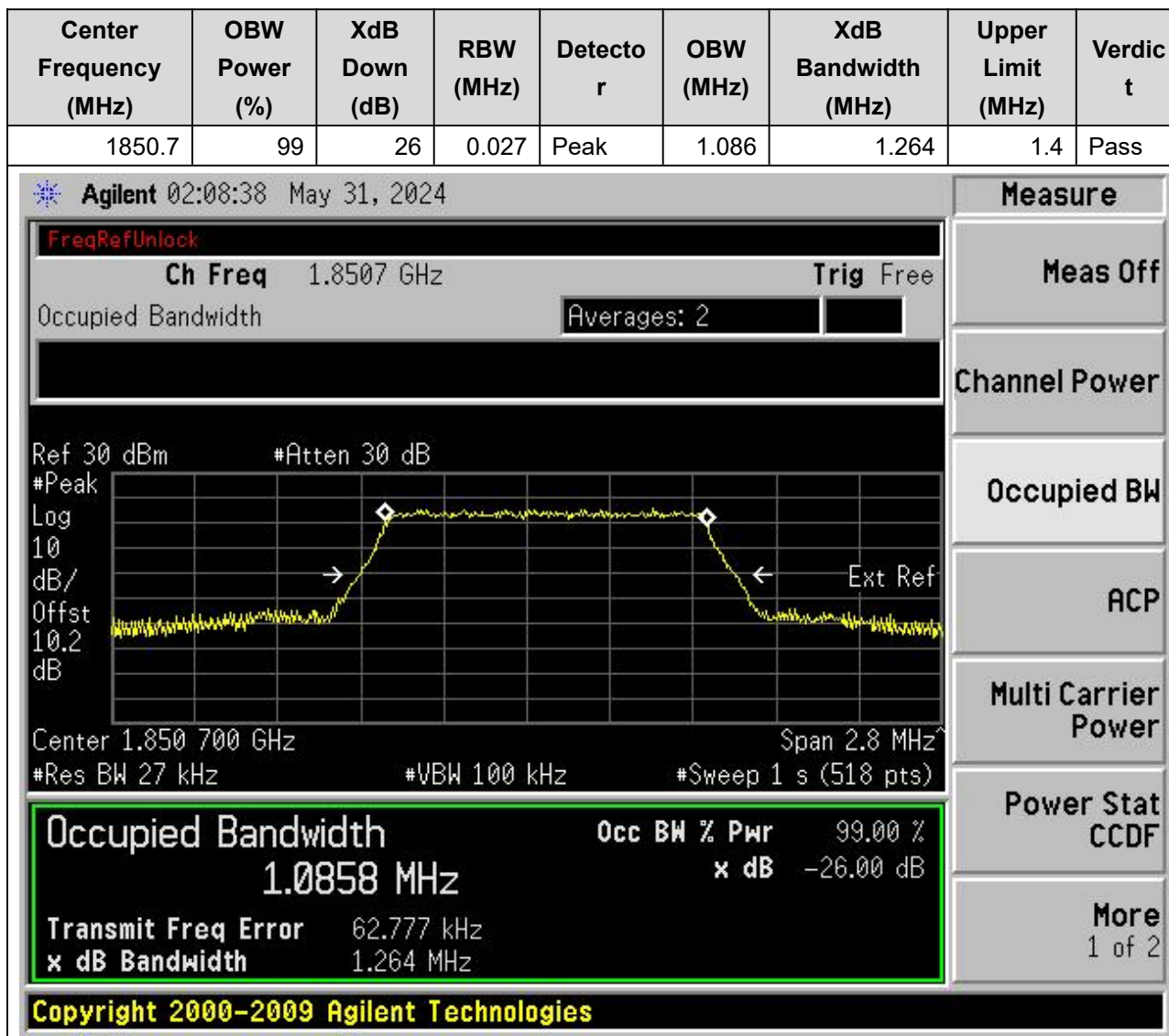
| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 846.6                  | 99            | 26            | 0.1       | Peak     | 4.14      | 4.693               | 5                 | Pass    |



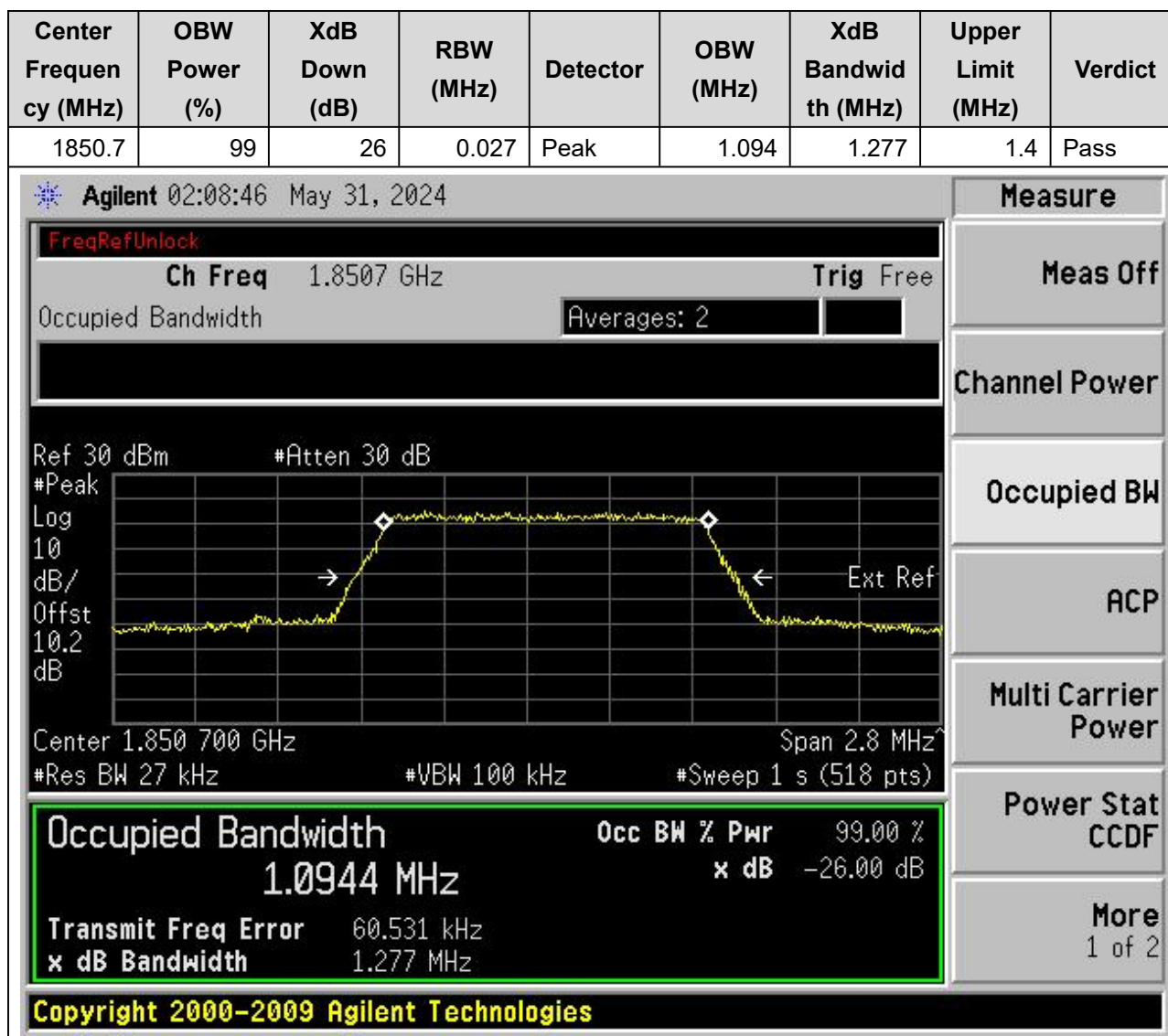


## 8. LTE\_Band2

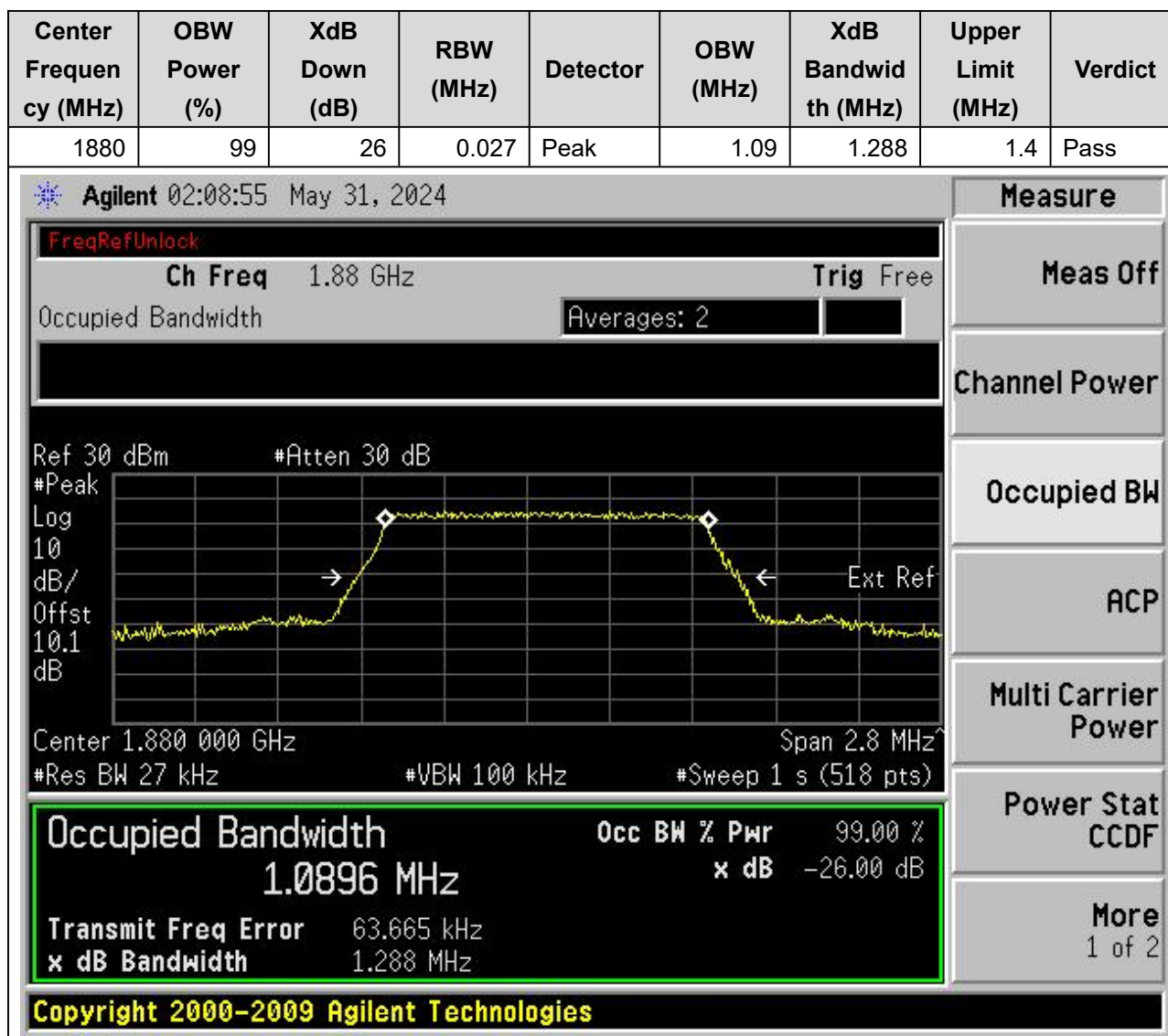
### 8.1 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:1, Channel:18607, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



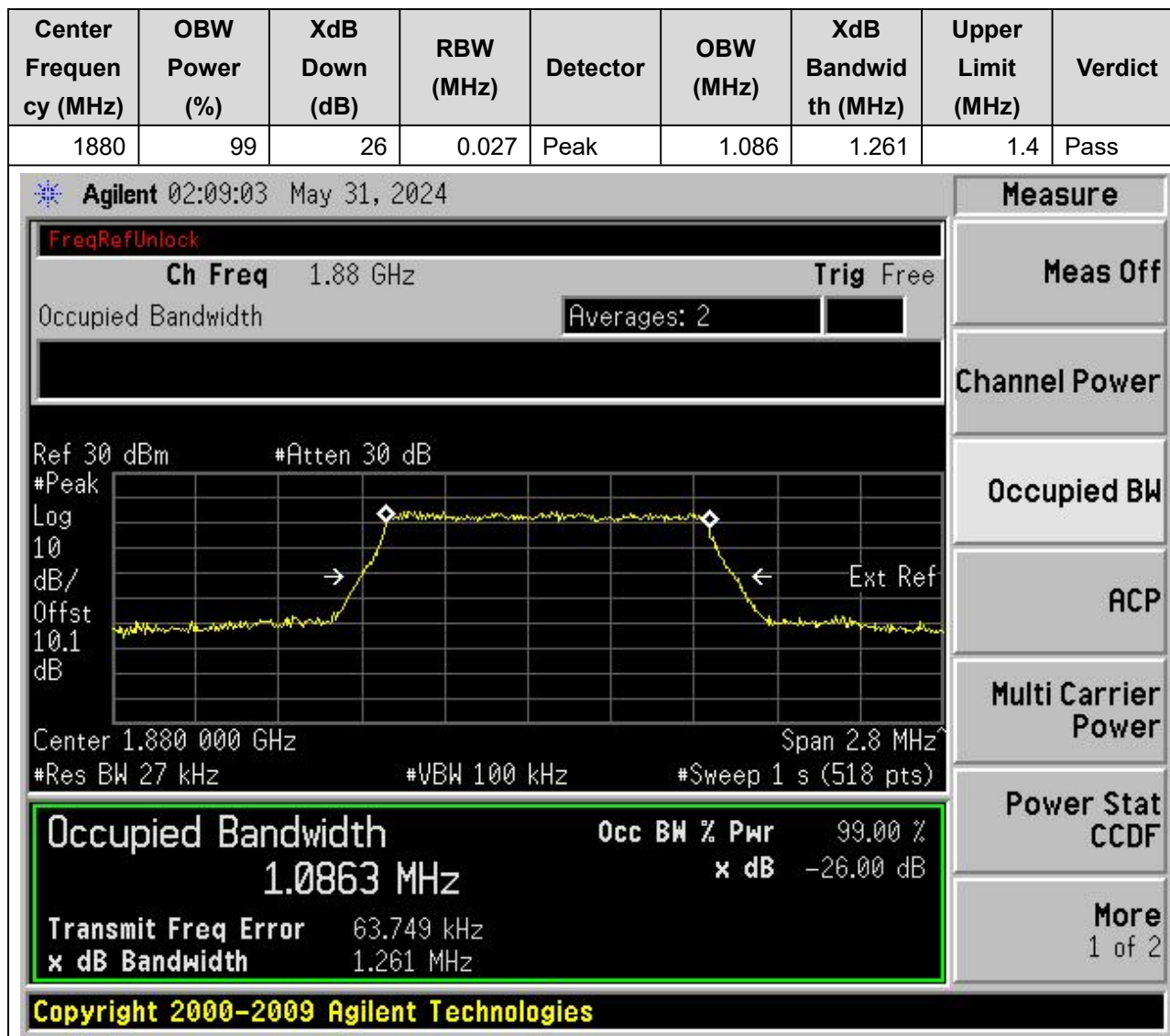
## 8.2 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:2, Channel:18607, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)



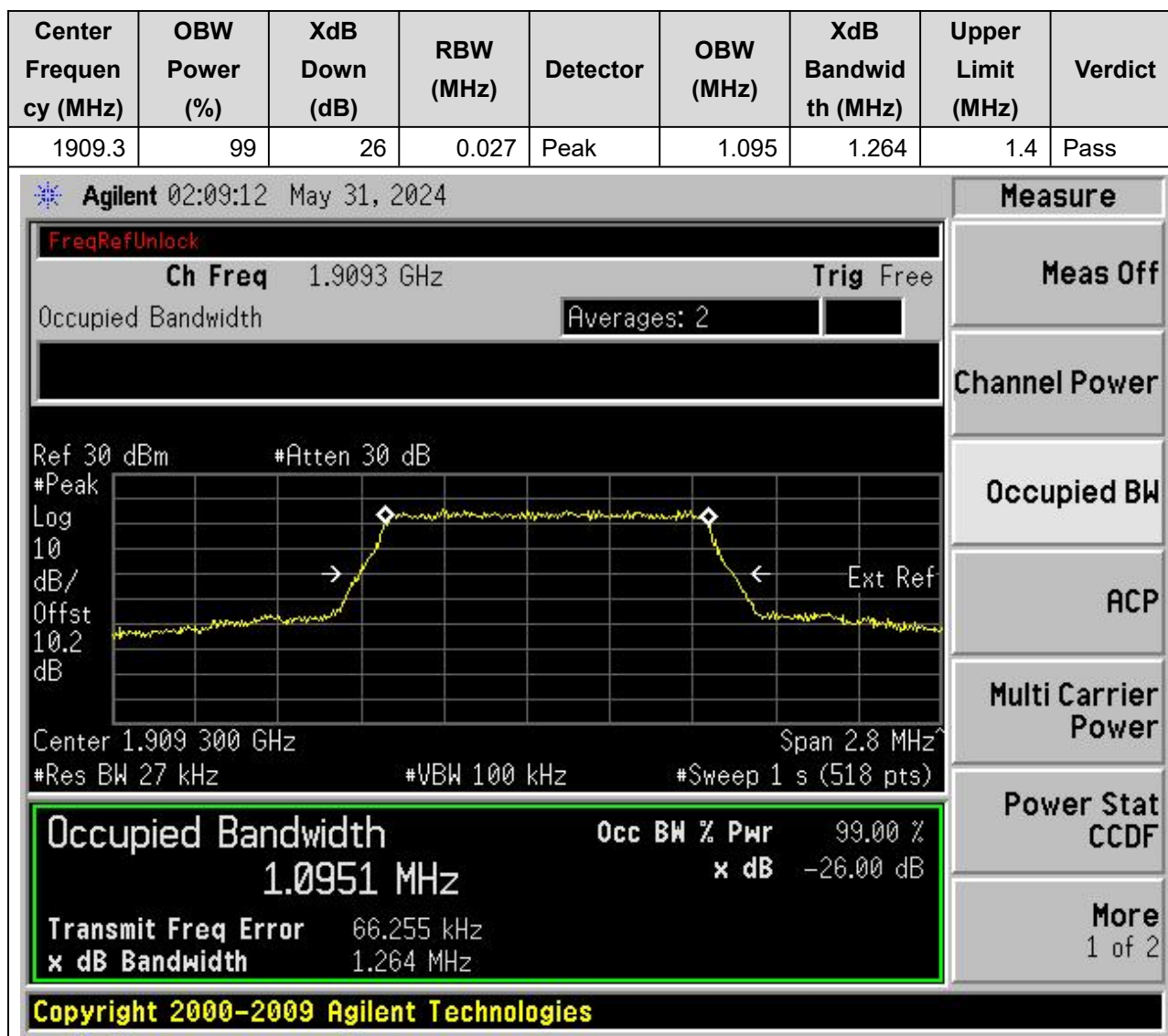
### 8.3 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:3, Channel:18900, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



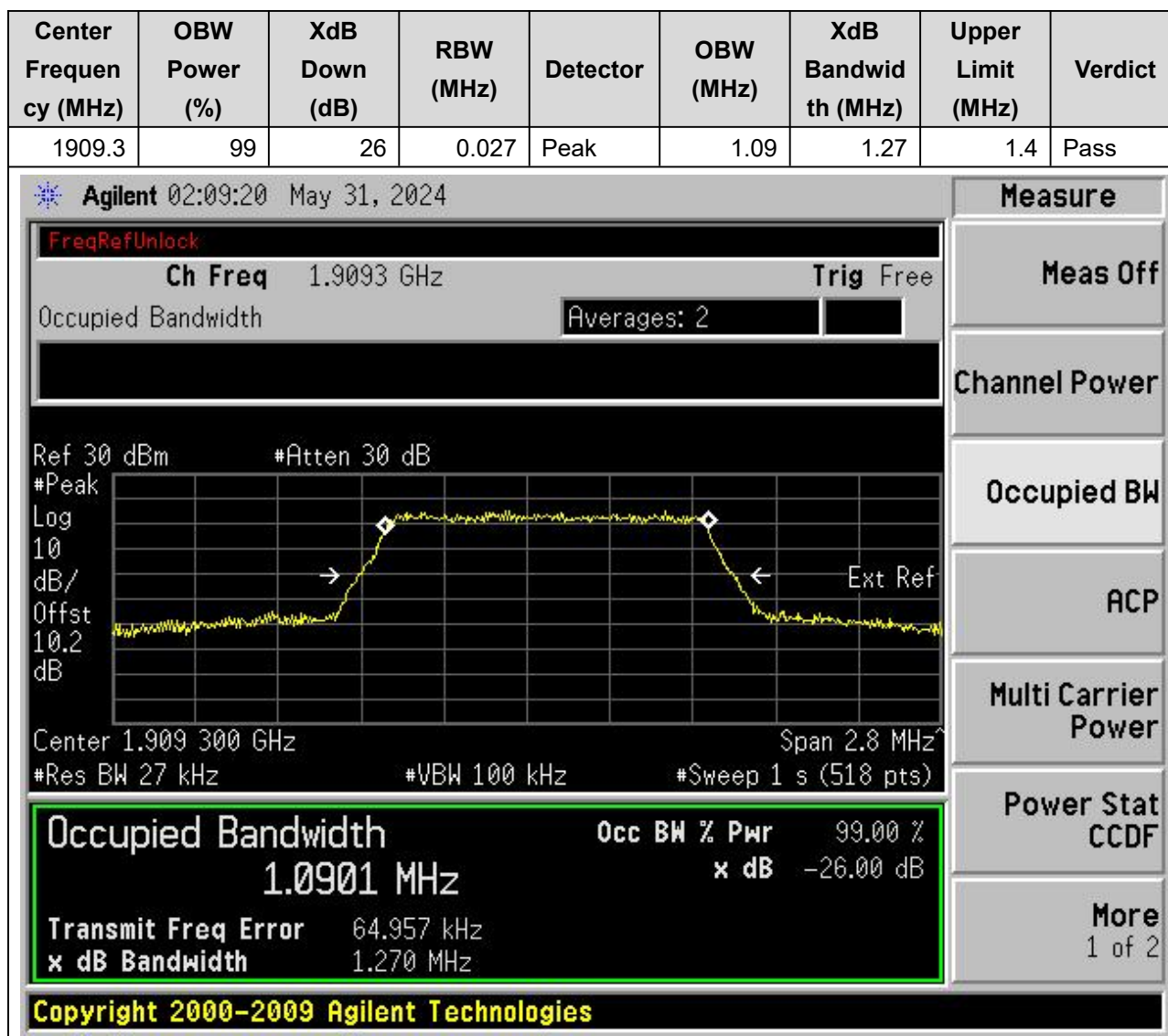
#### 8.4 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:4, Channel:18900, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)



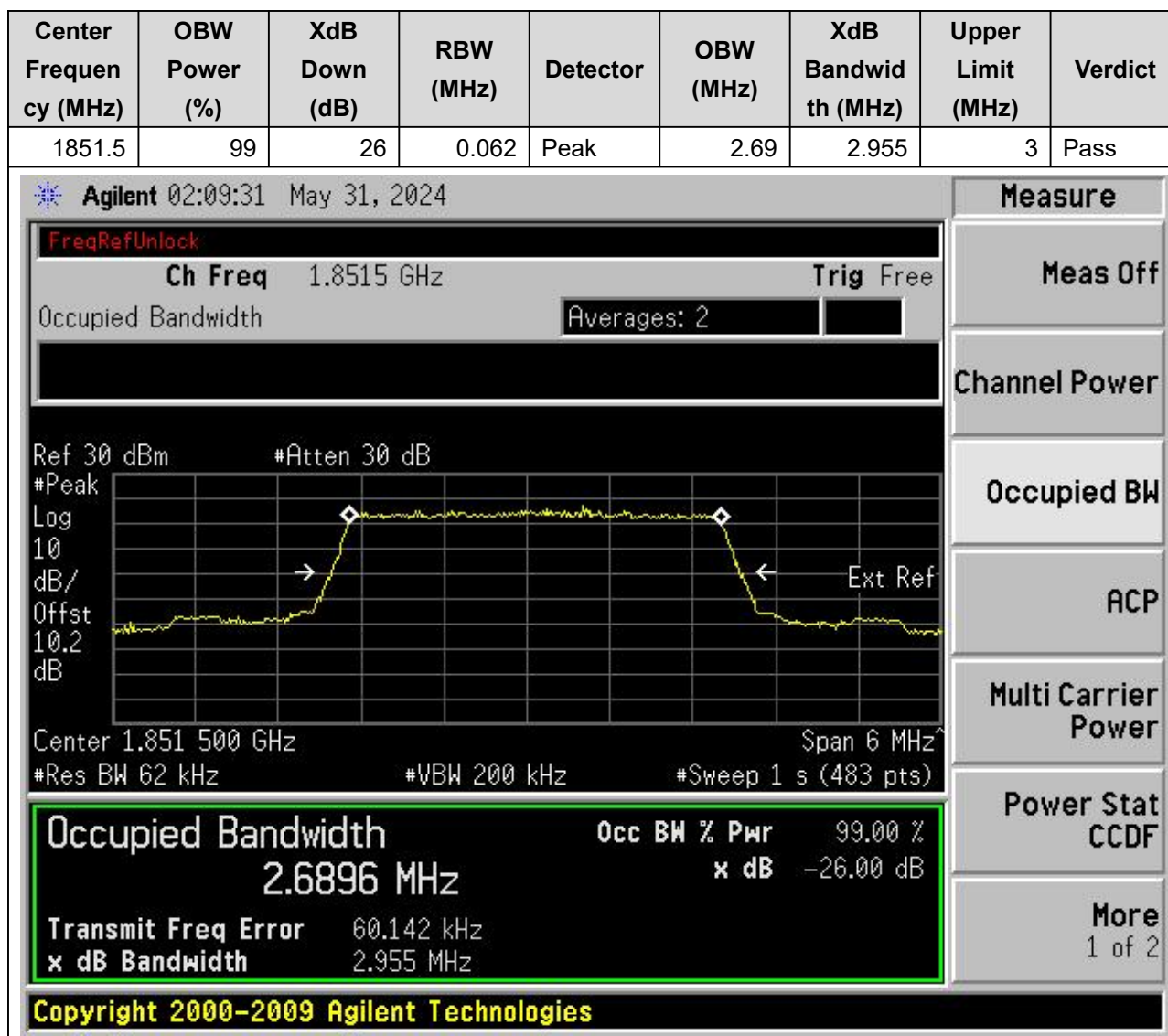
# 8.5 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:5, Channel:19193, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



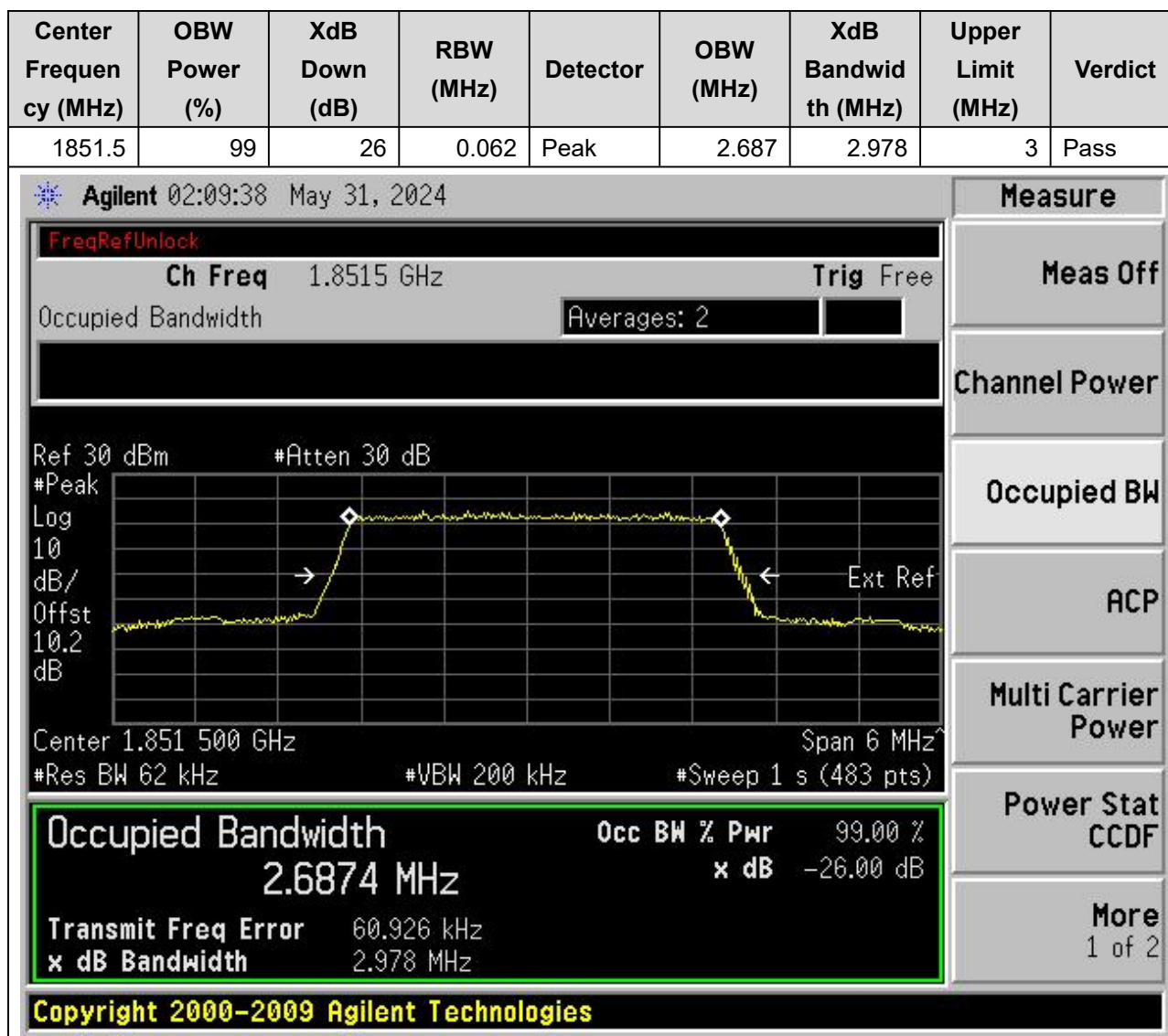
# 8.6 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:6, Channel:19193, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)



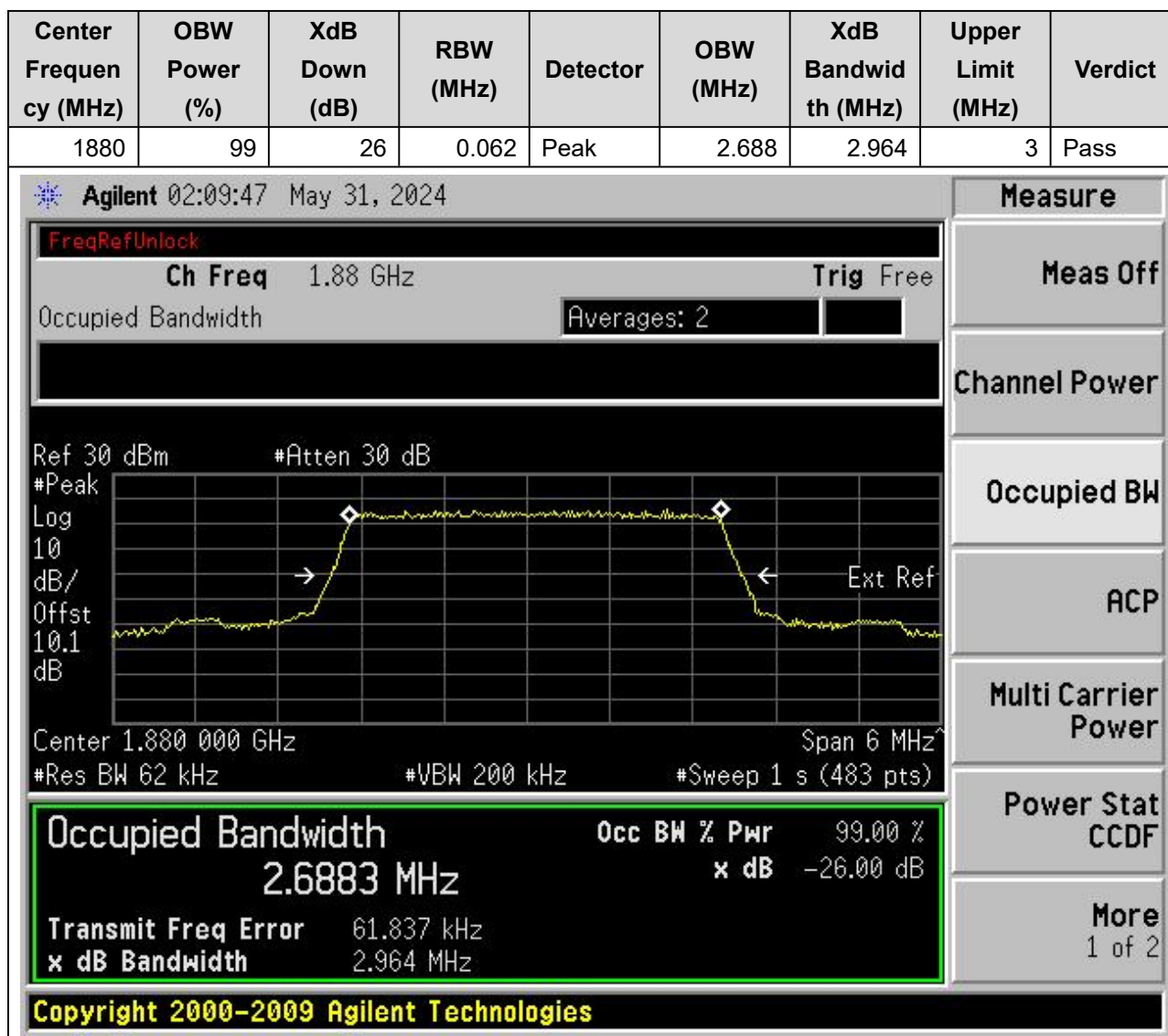
# 8.7 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:7, Channel:18615, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)



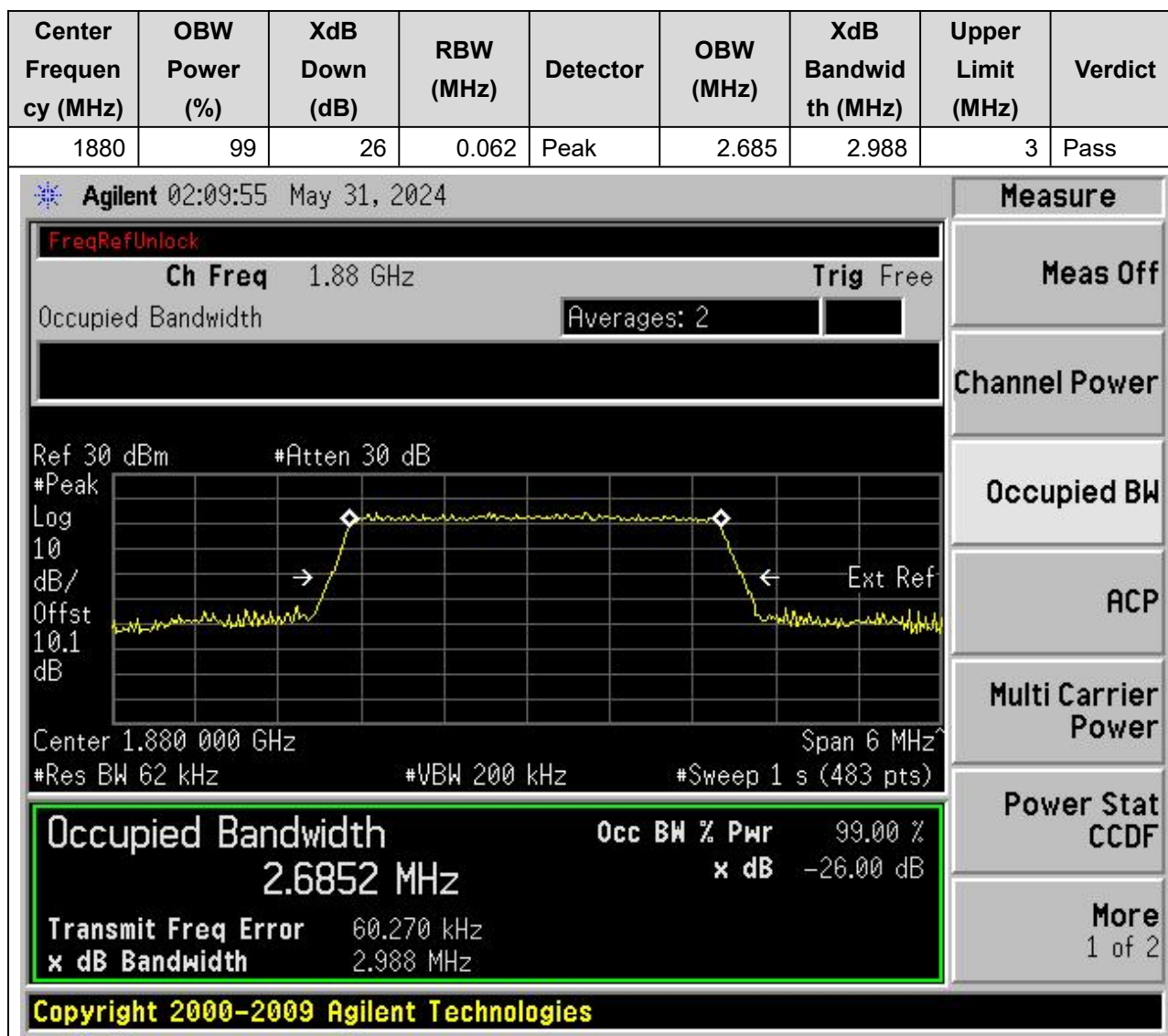
# 8.8 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:8, Channel:18615, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)



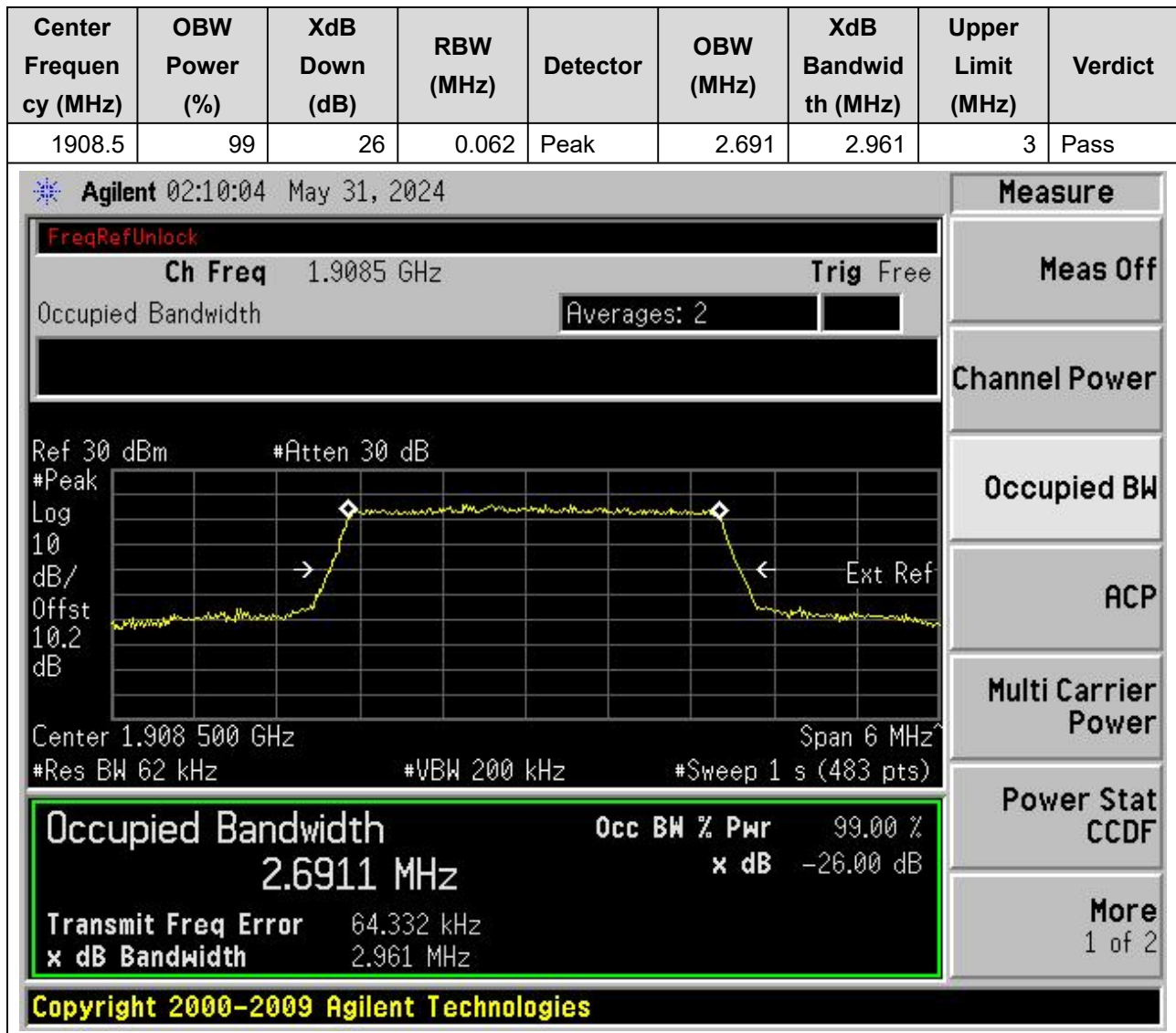
## 8.9 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:9, Channel:18900, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)



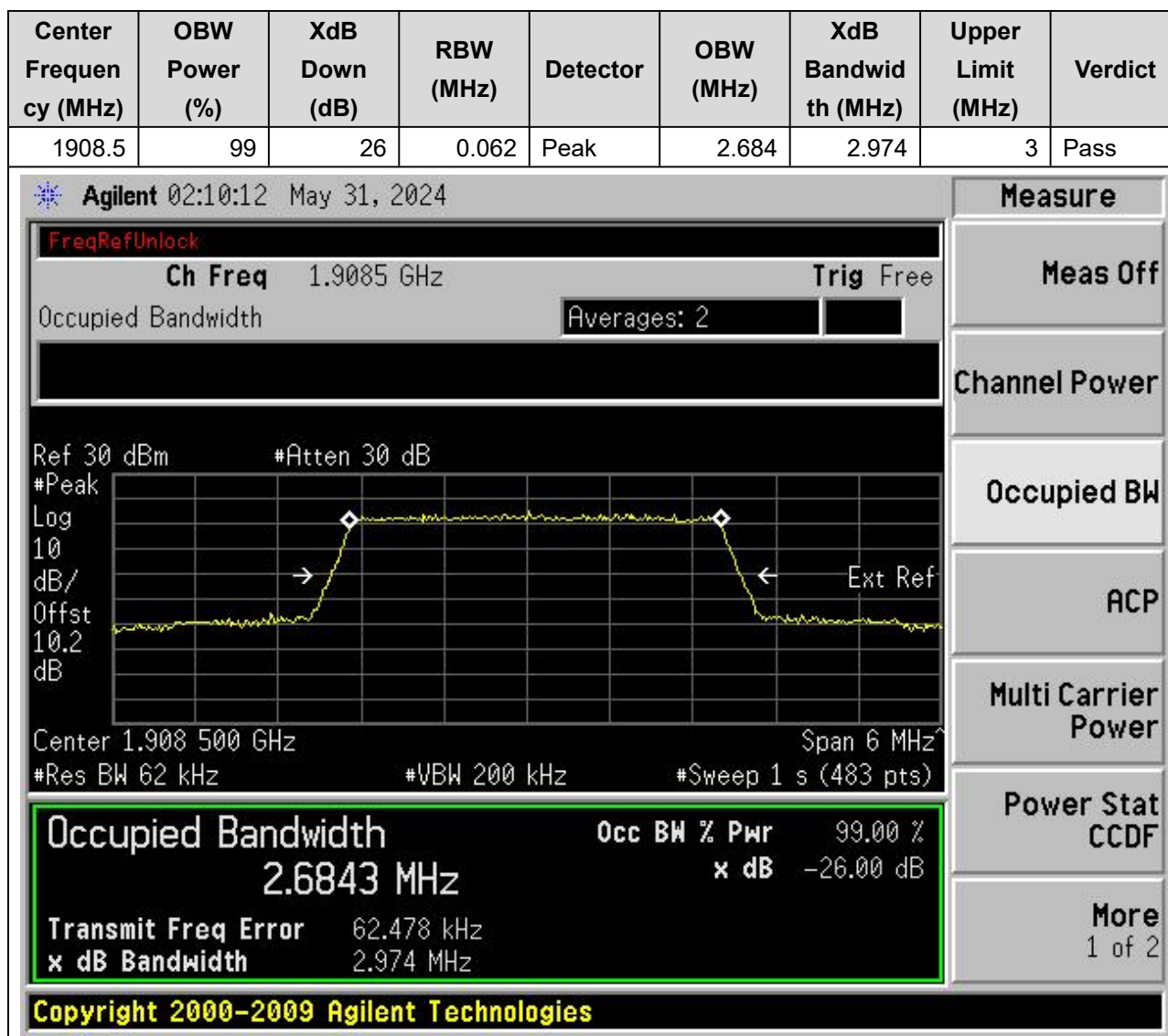
# 8.10 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:10, Channel:18900, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)



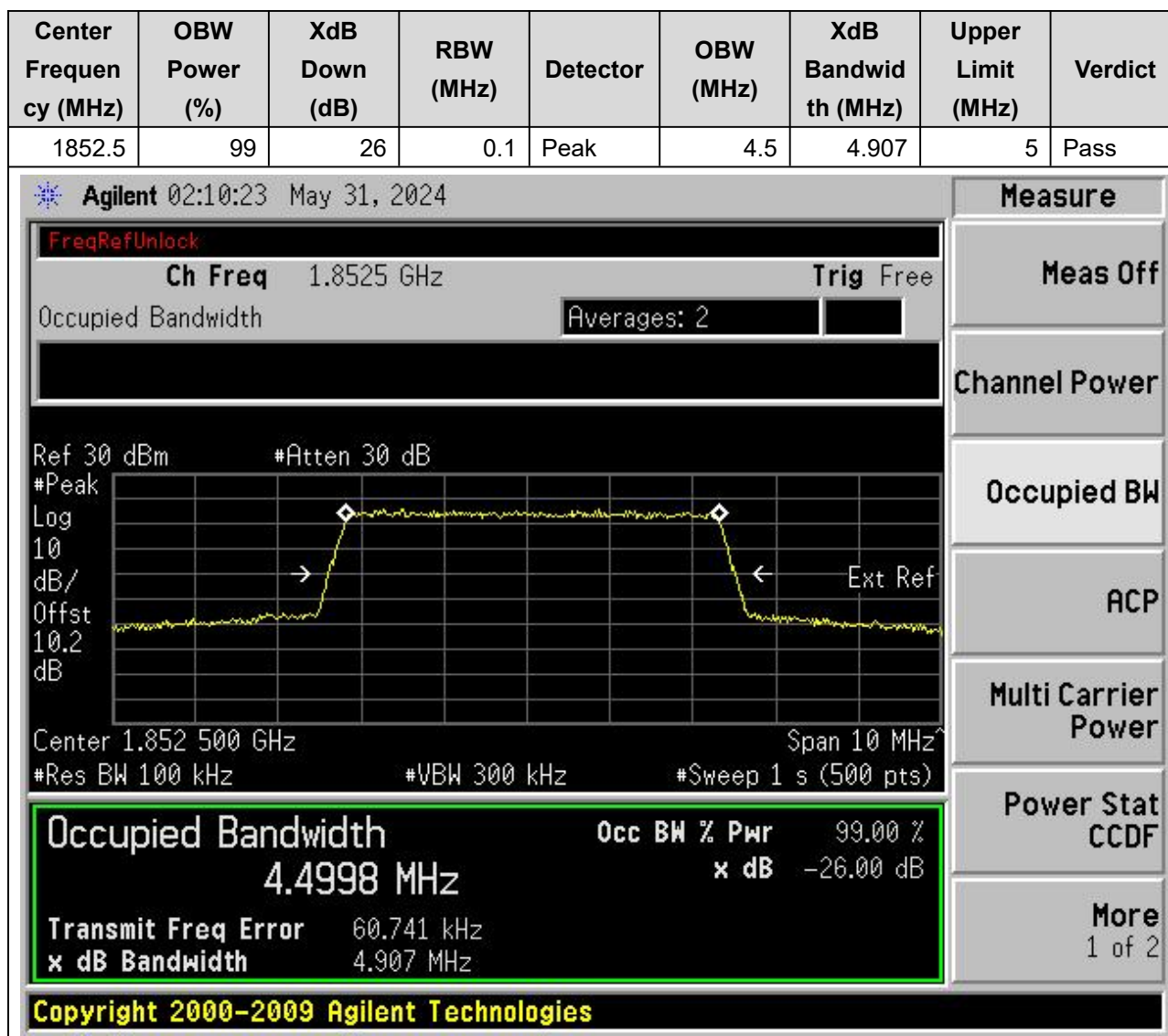
### 8.11 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:11, Channel:19185, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)



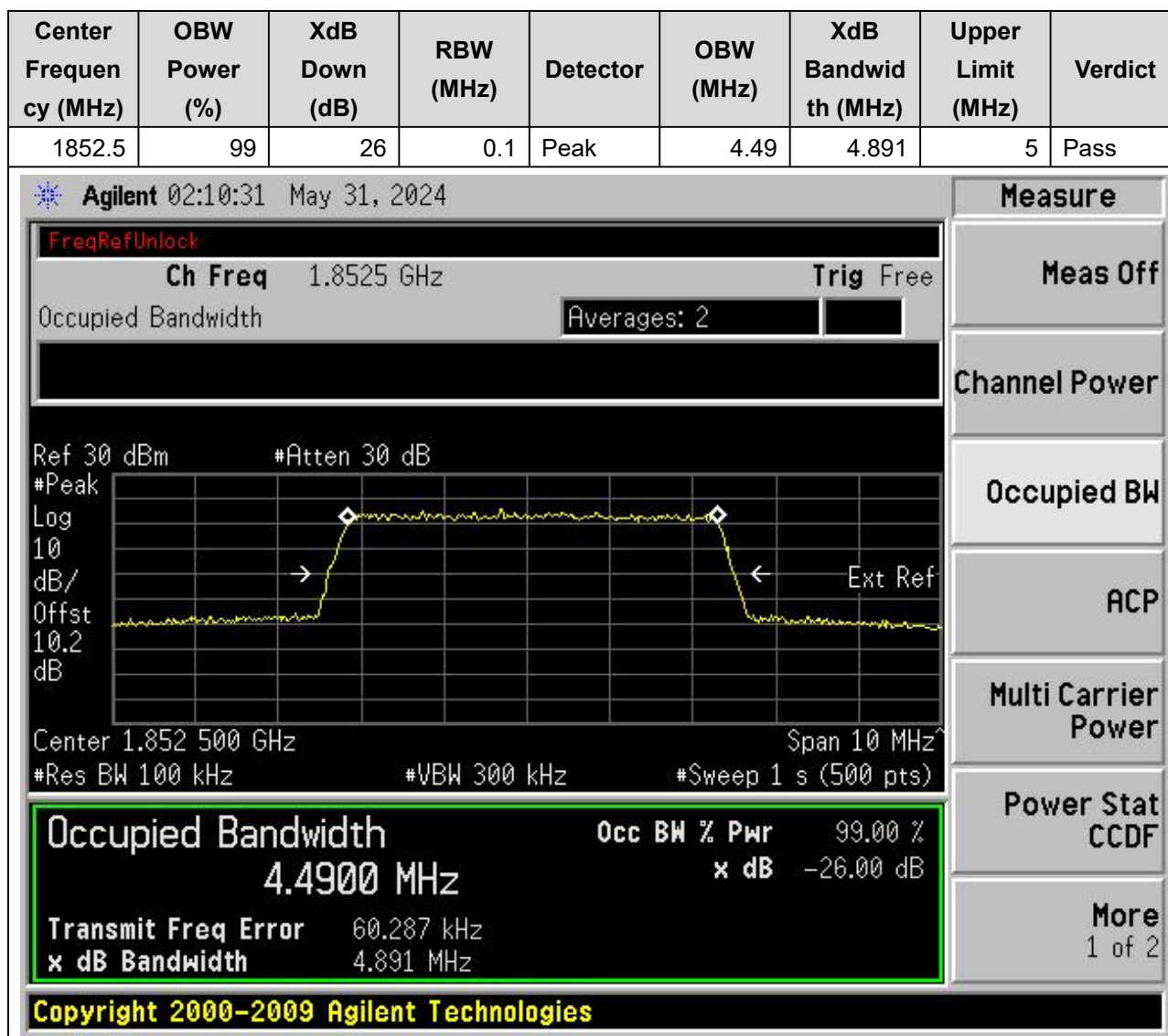
## 8.12 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:12, Channel:19185, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)



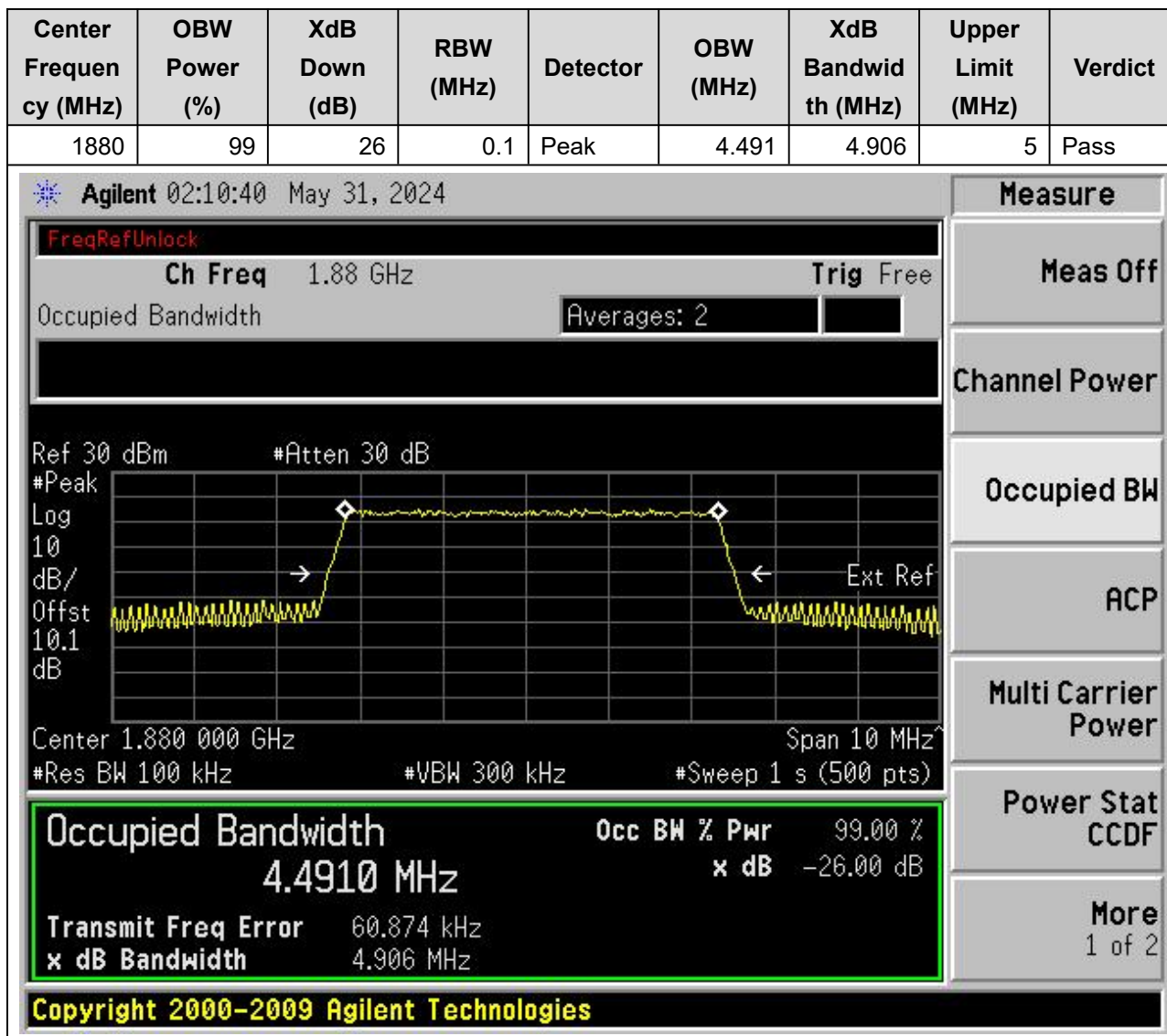
### 8.13 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:13, Channel:18625, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)



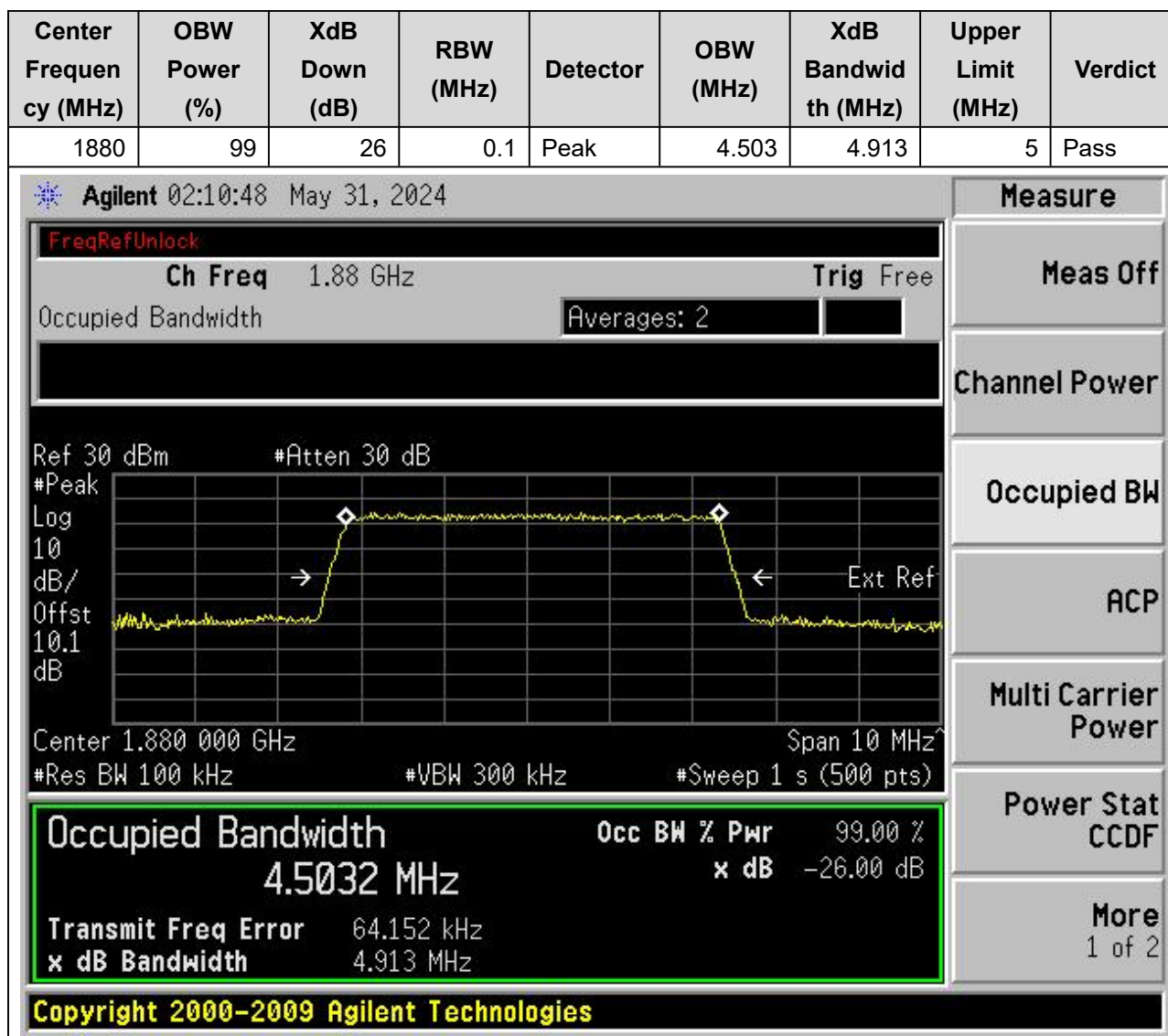
# 8.14 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:14, Channel:18625, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)



# 8.15 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:15, Channel:18900, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)

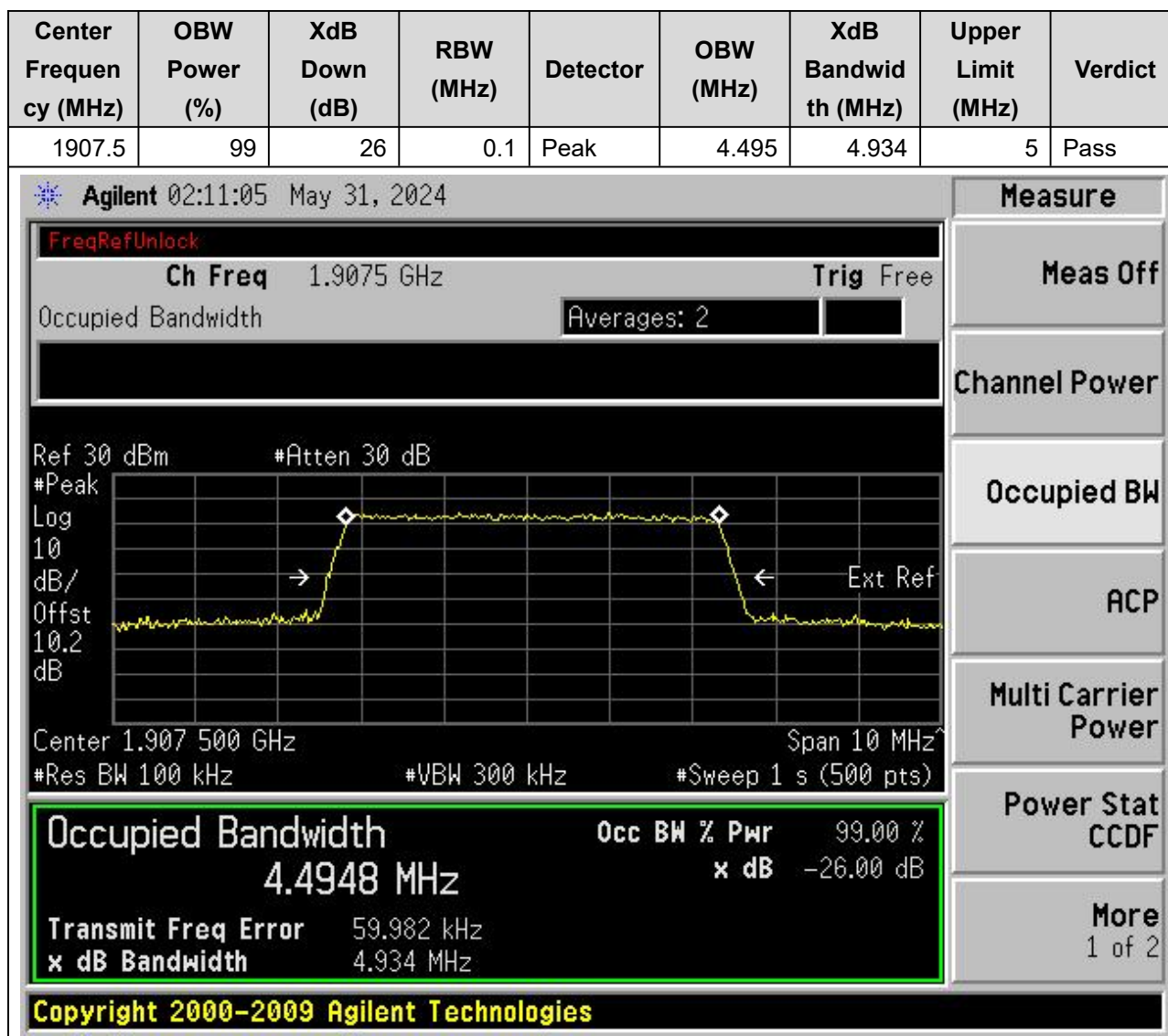


# 8.16 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:16, Channel:18900, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)

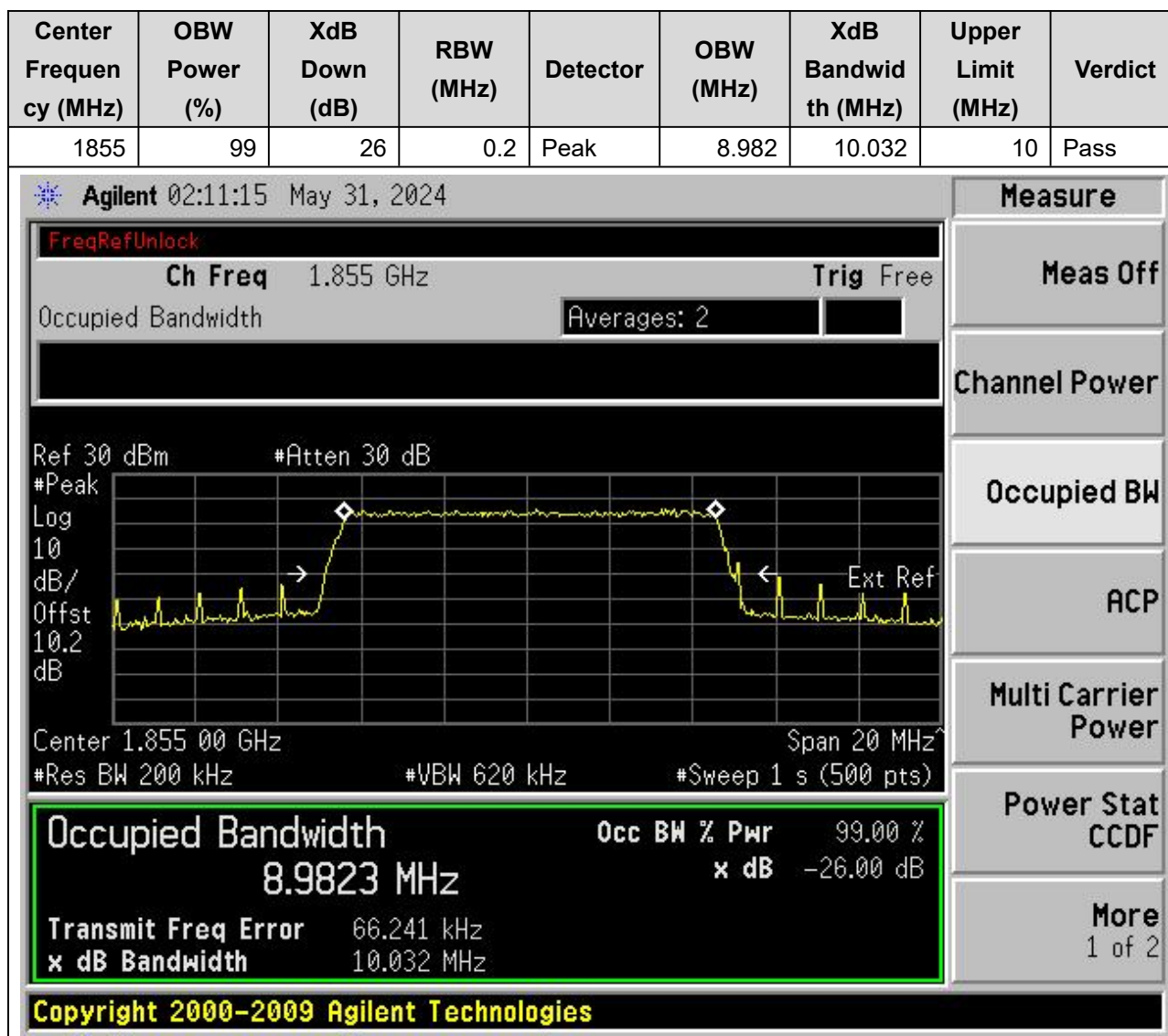




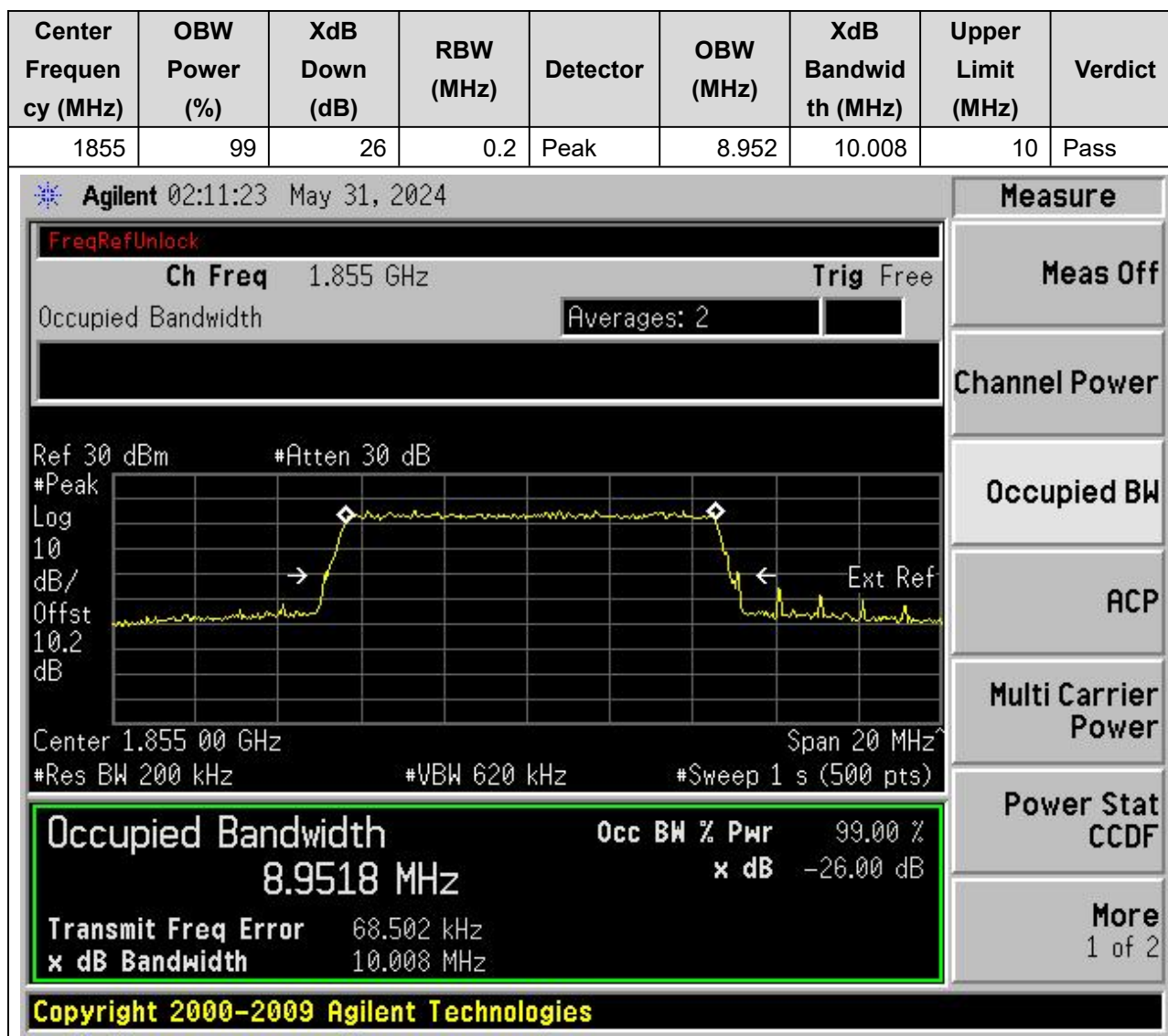
# 8.18 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:18, Channel:19175, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)



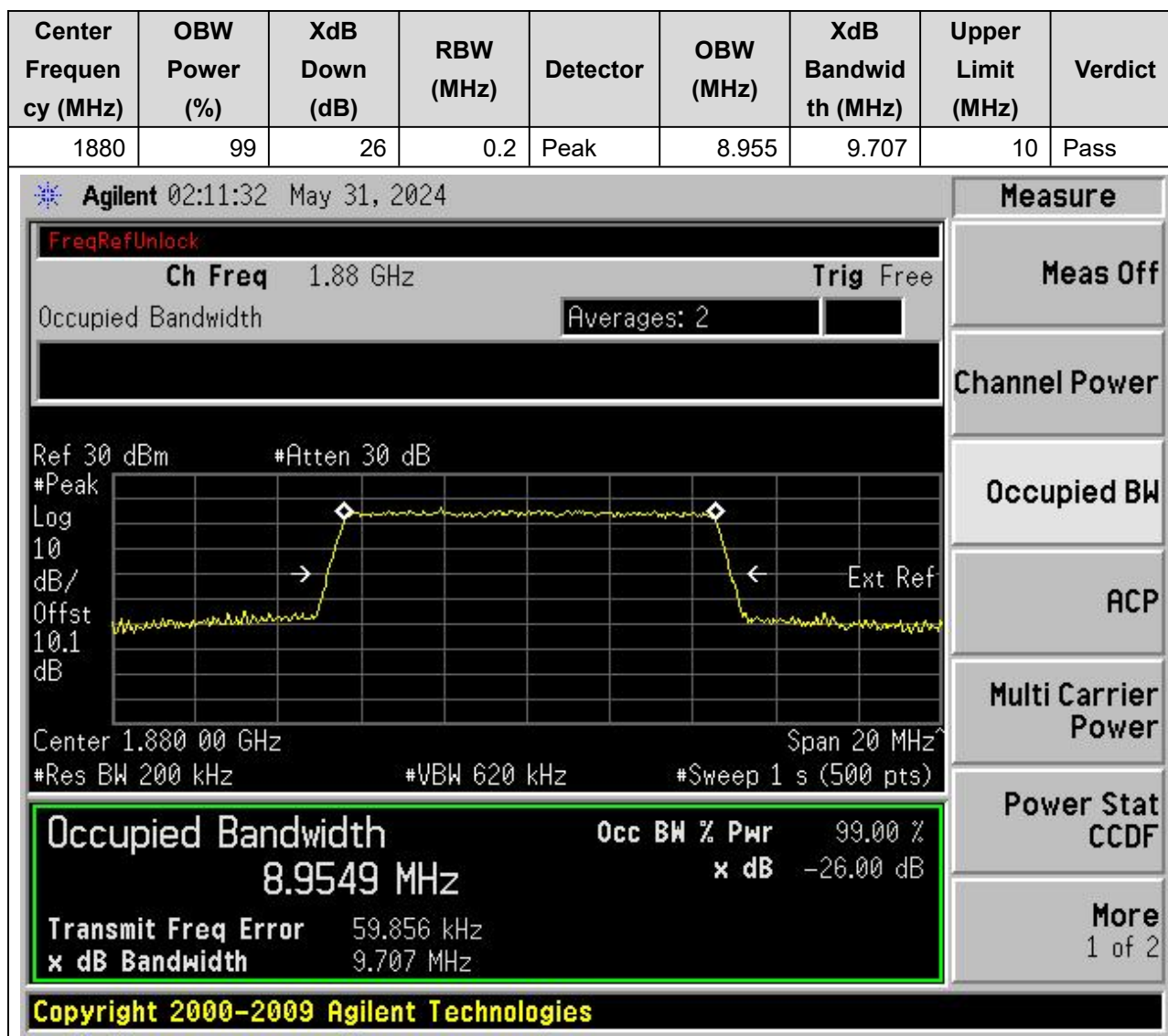
# 8.19 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:19, Channel:18650, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)



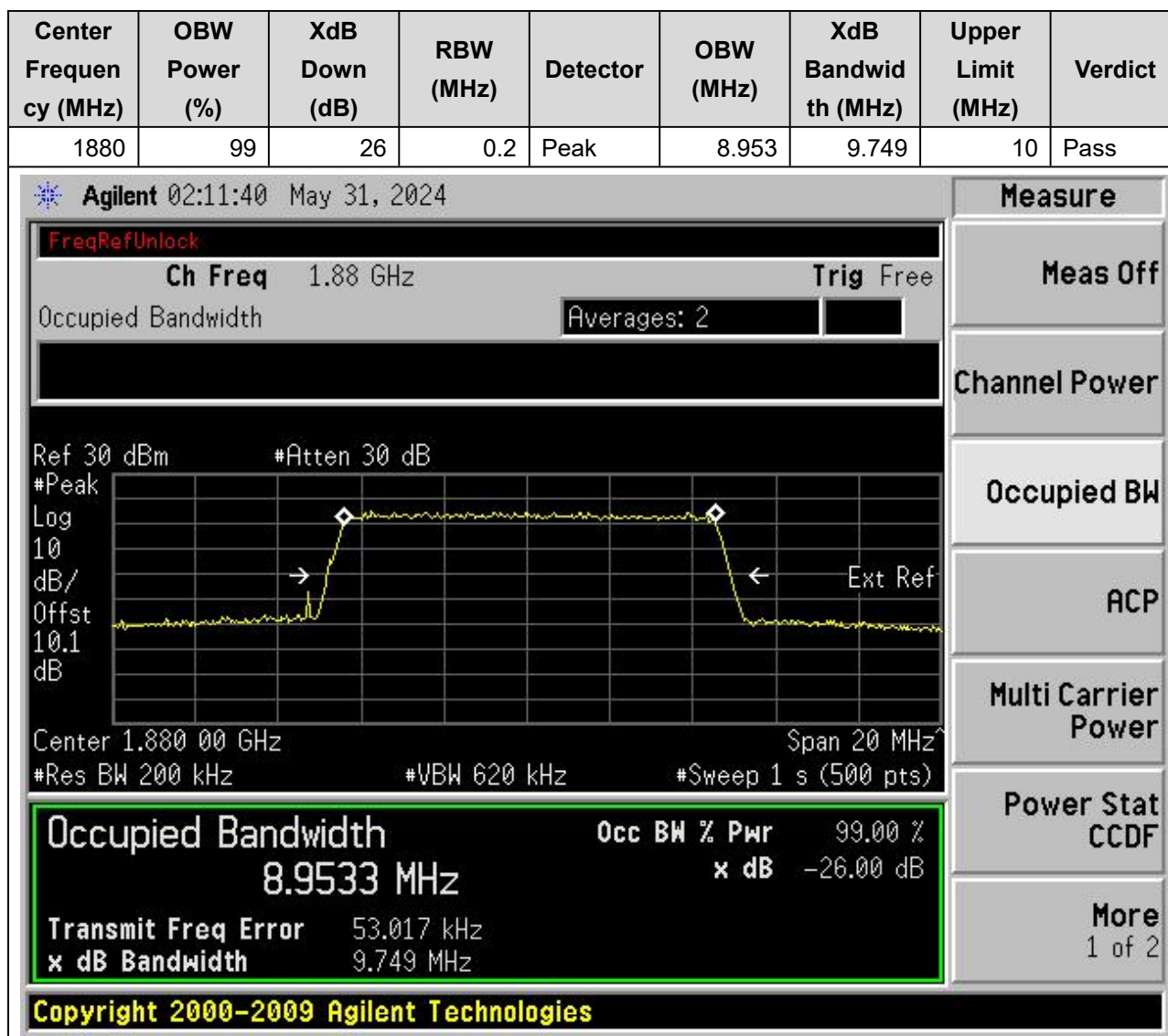
## 8.20 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:20, Channel:18650, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



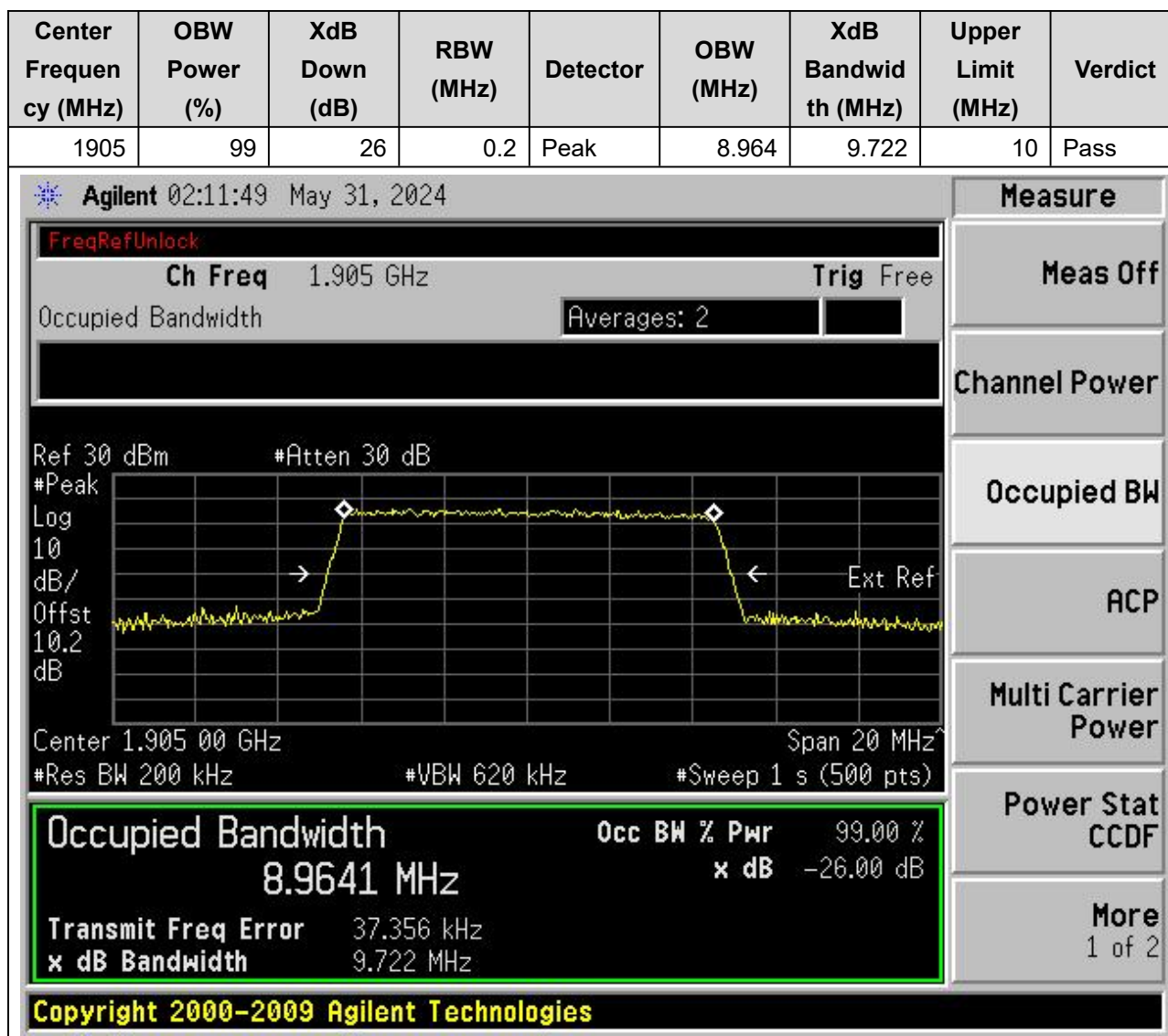
## 8.21 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:21, Channel:18900, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)



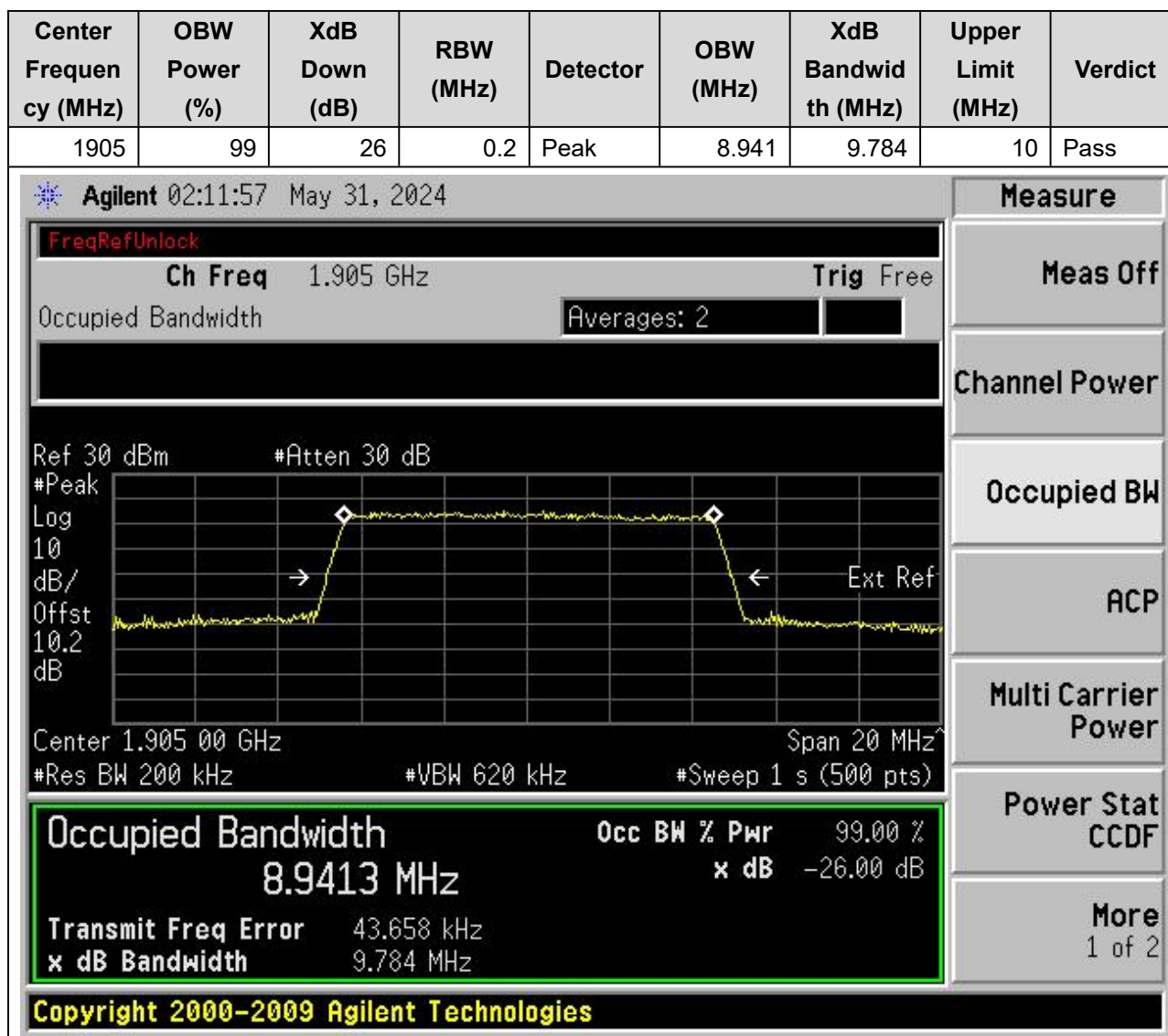
## 8.22 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:22, Channel:18900, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



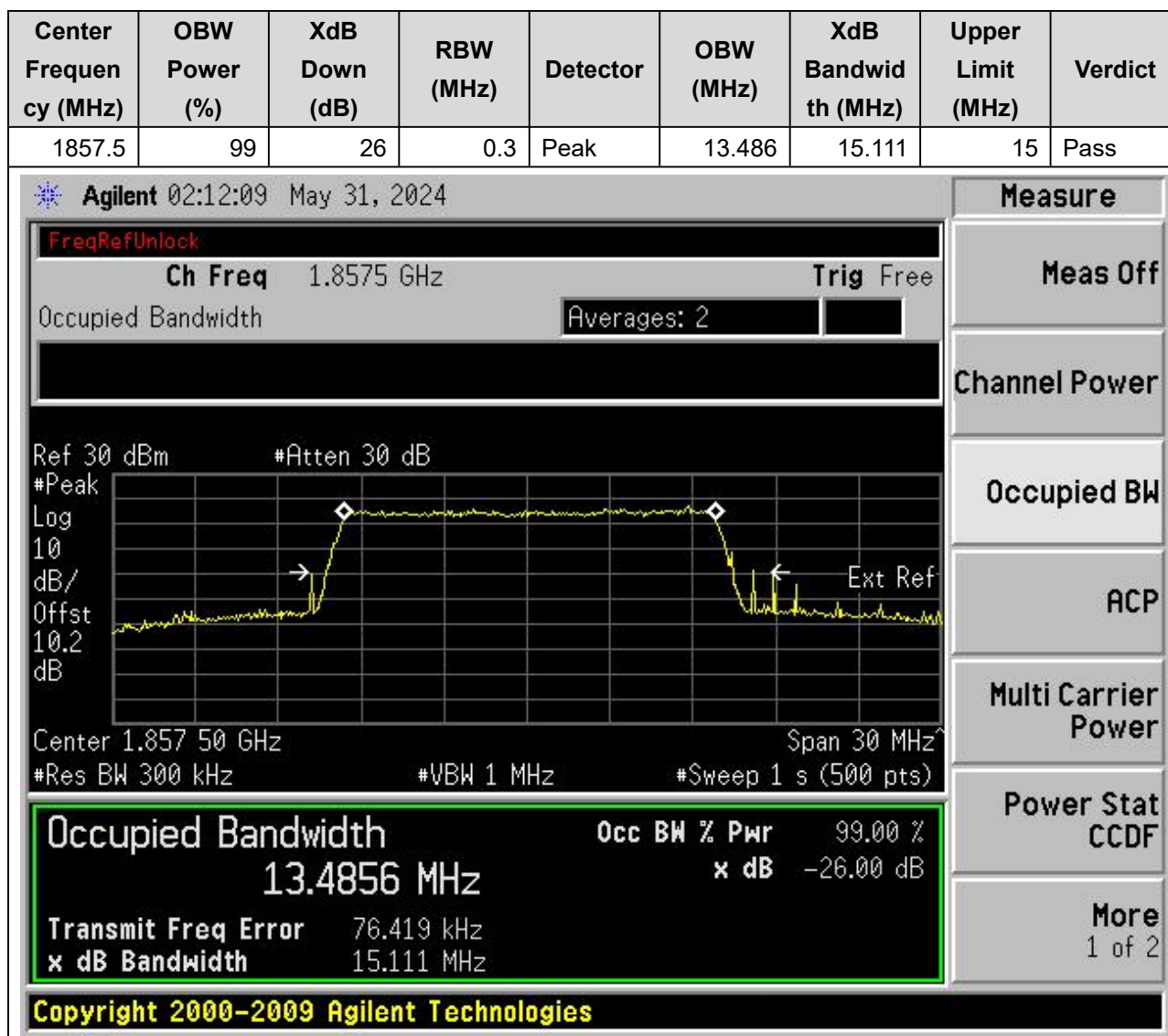
## 8.23 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:23, Channel:19150, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)



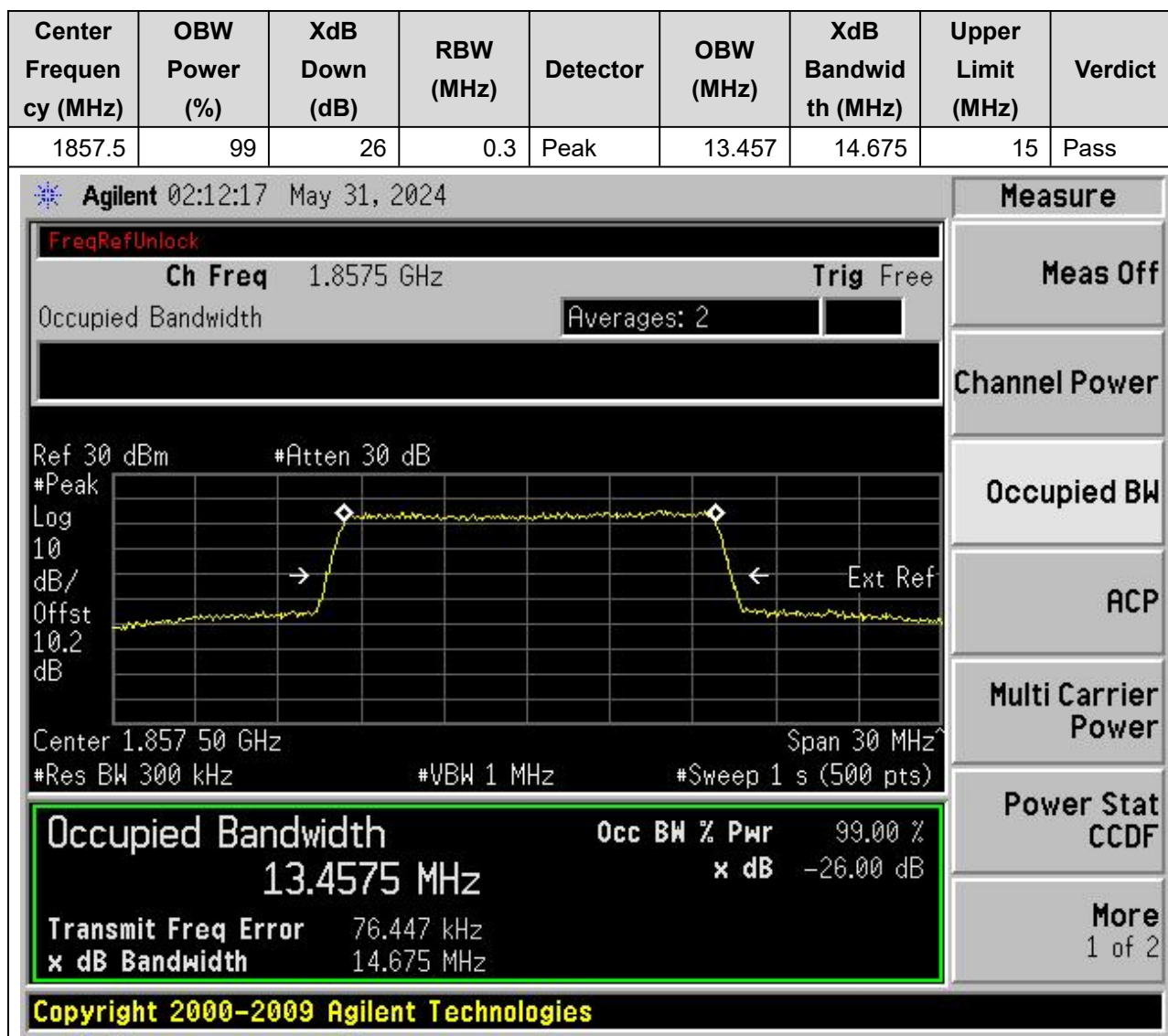
## 8.24 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:24, Channel:19150, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



## 8.25 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:25, Channel:18675, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)



## 8.26 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:26, Channel:18675, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)



## 8.27 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:27, Channel:18900, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)

