

## **Annex A.2 Peak to Average Ratio**

# 1. WCDMA\_Band2

## 1.1. WCDMA Peak to Average Ratio\_Part22-24-27(NTNV)(Channel:9262)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1852.4	0.1	3	13	Pass

General Purpose RF Measurement 1 - V3.7.70 - Base V 3.7.172
GPRF

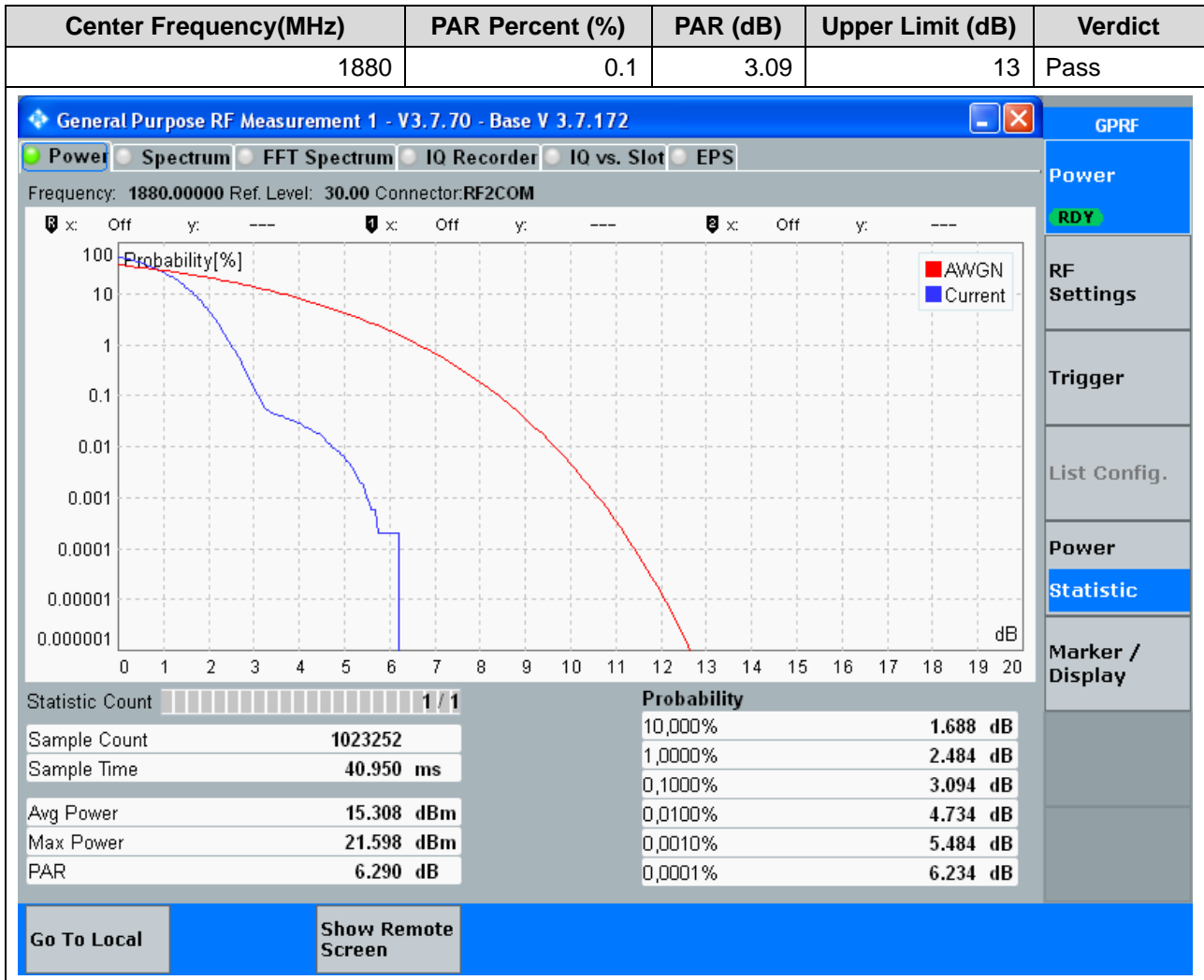
Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS

Frequency: 1852.40000 Ref. Level: 30.00 Connector:RF2COM

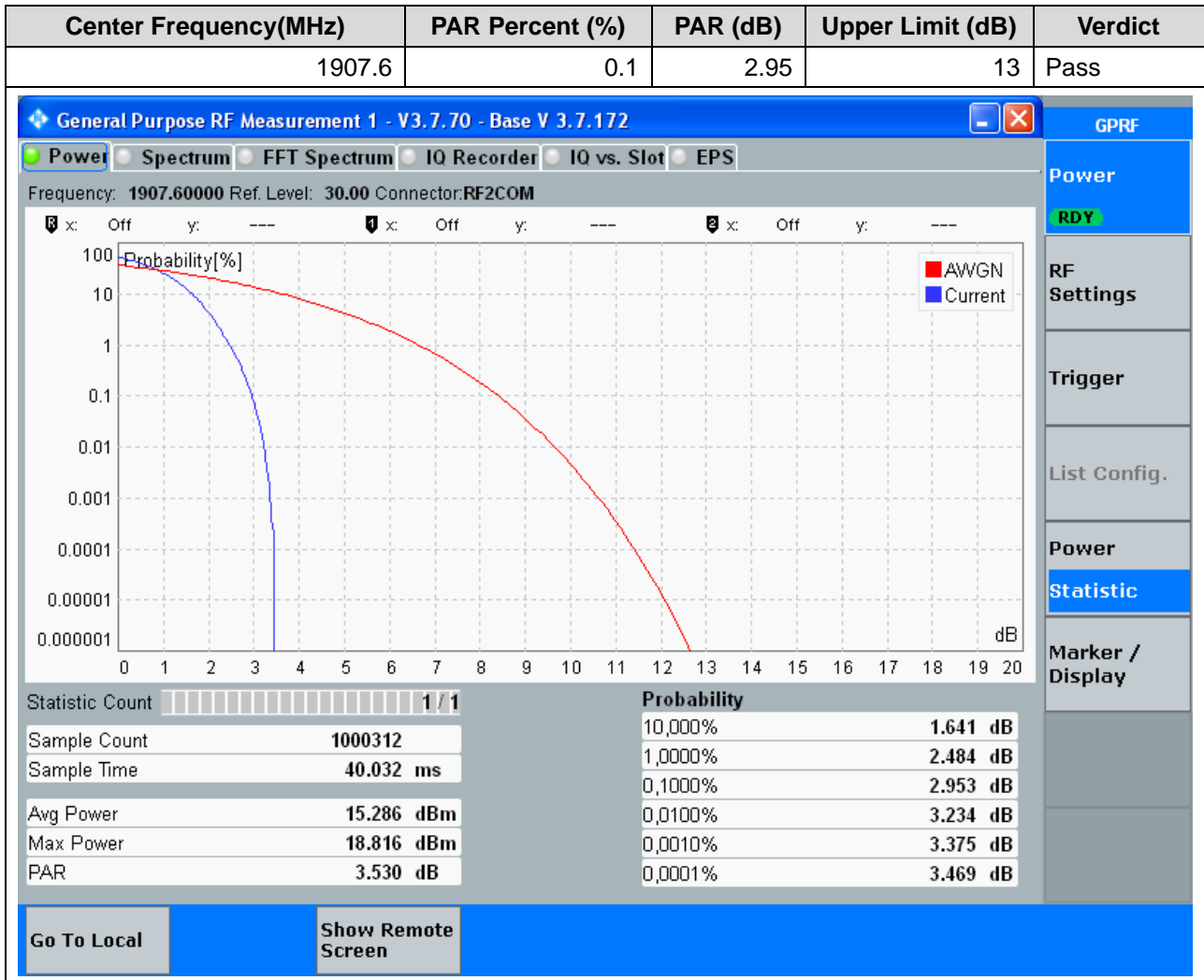
Statistic Count		Probability	
Sample Count	999512	10,000%	1.688 dB
Sample Time	40.000 ms	1,0000%	2.484 dB
Avg Power	15.277 dBm	0,1000%	3.000 dB
Max Power	18.817 dBm	0,0100%	3.469 dB
PAR	3.540 dB	0,0001%	3.516 dB

Go To Local
Show Remote Screen

## 1.2. WCDMA Peak to Average Ratio\_Part22-24-27(NTNV)(Channel:9400)

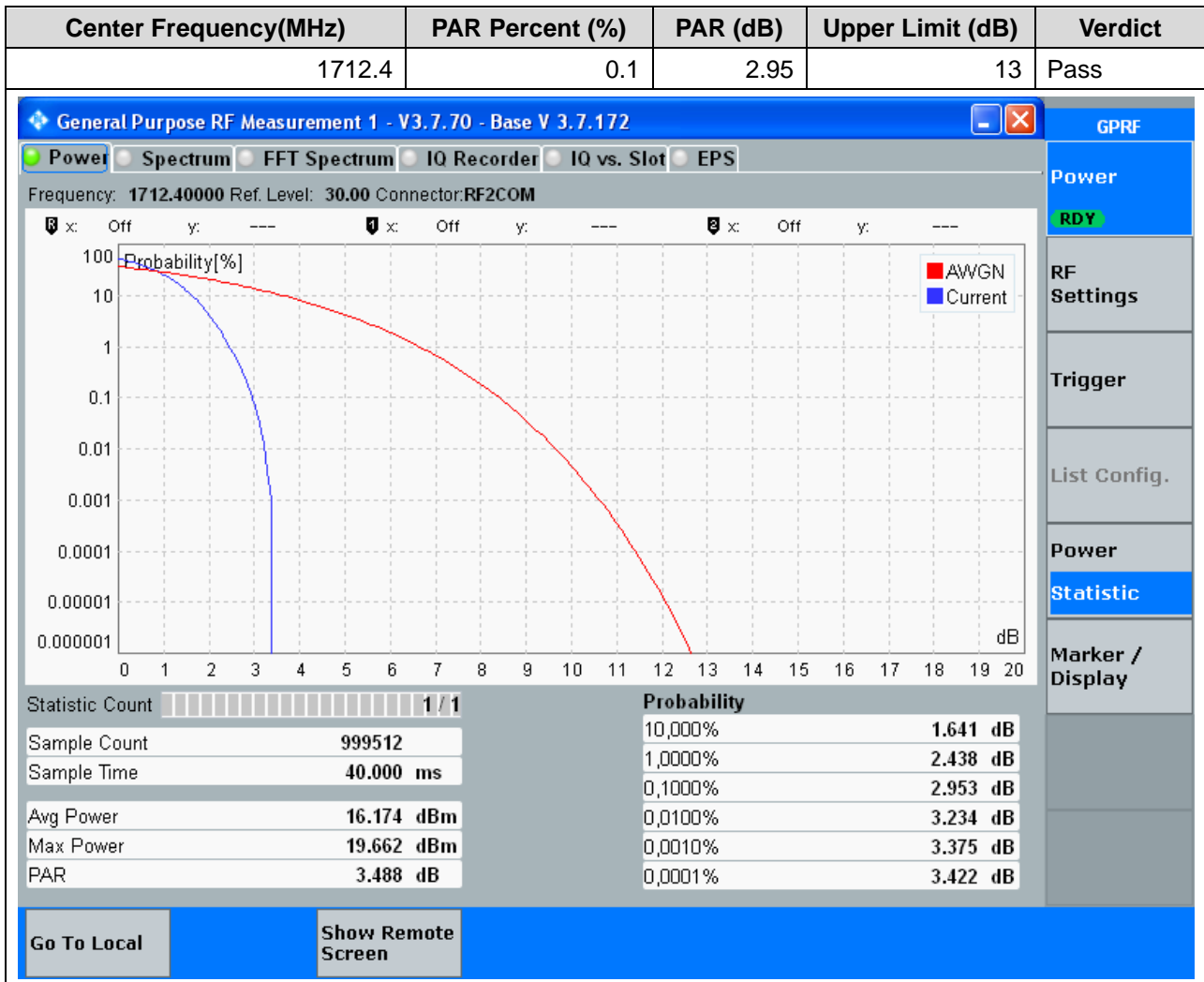


### 1.3. WCDMA Peak to Average Ratio\_Part22-24-27(NTNV)(Channel:9538)

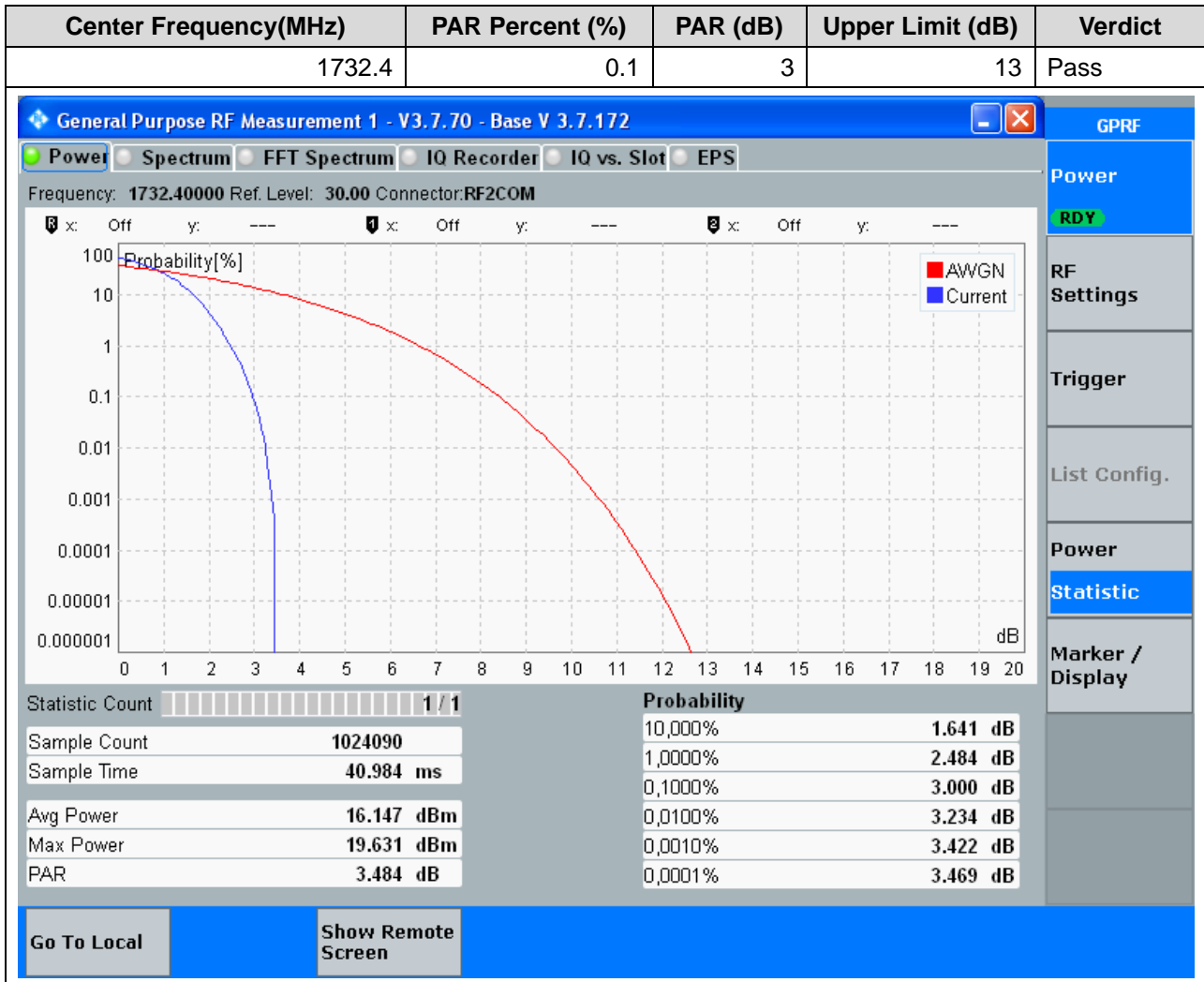


## 2. WCDMA\_Band4

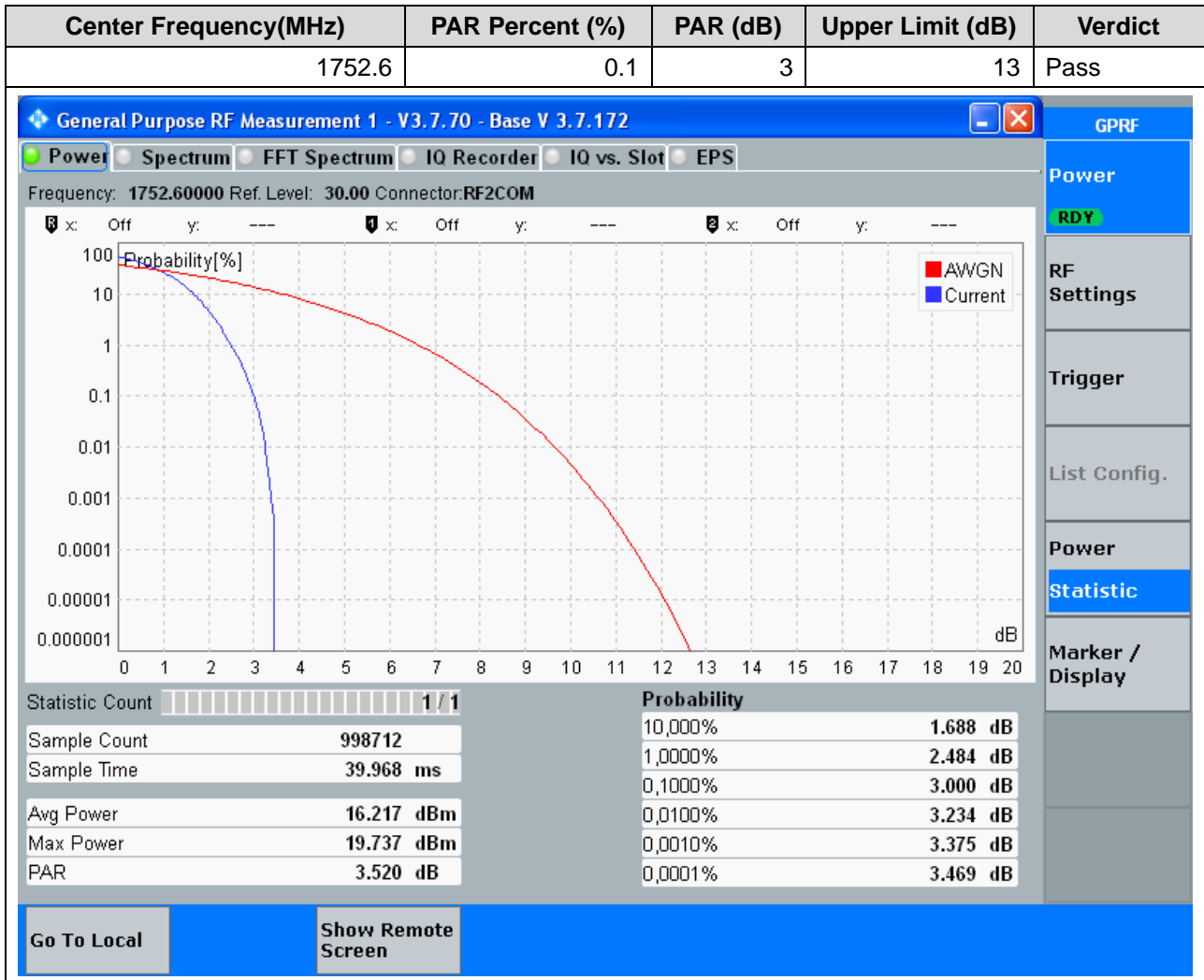
### 2.1. WCDMA Peak to Average Ratio\_Part22-24-27(NTNV)(Channel:1312)



## 2.2. WCDMA Peak to Average Ratio\_Part22-24-27(NTNV)(Channel:1412)

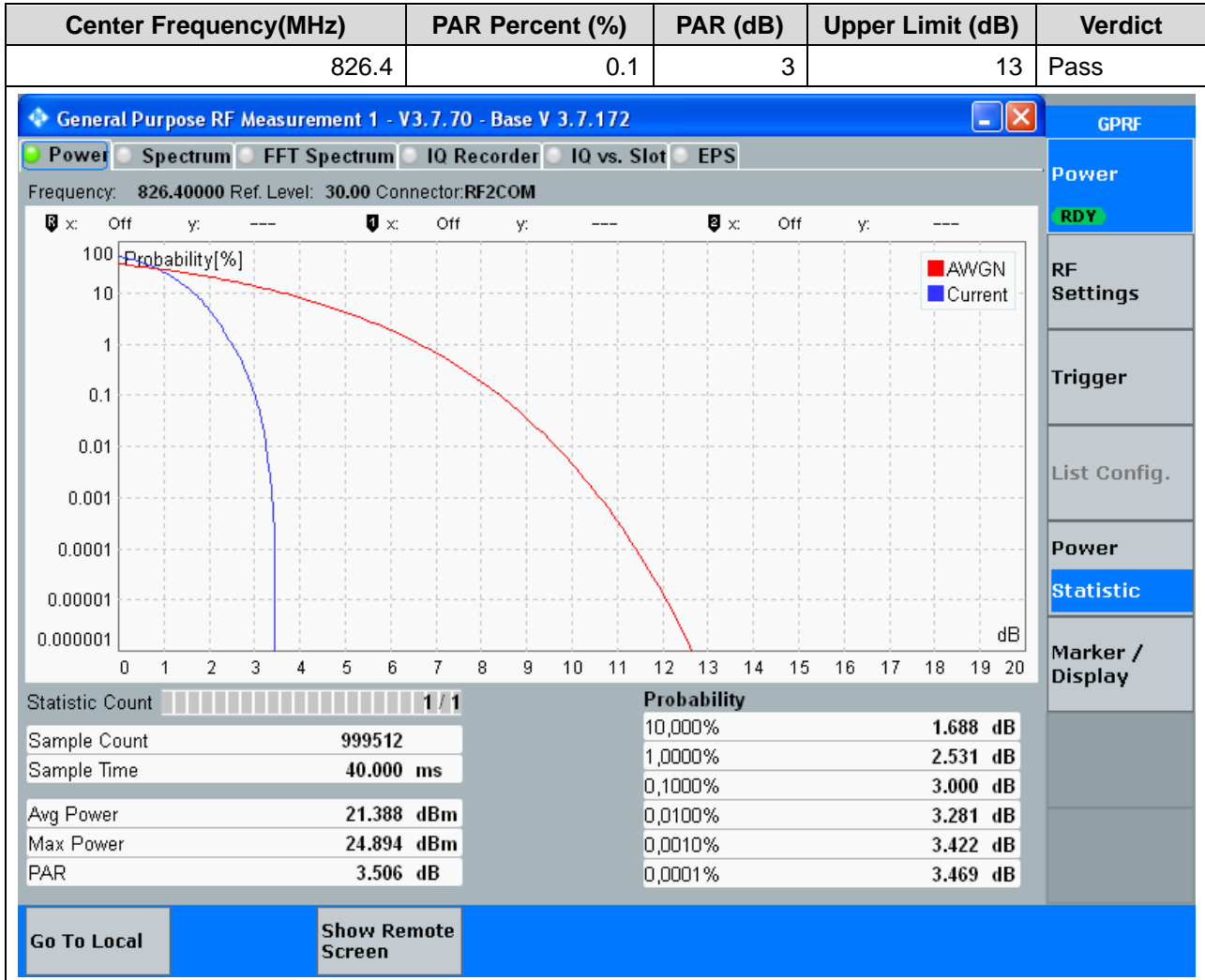


### 2.3. WCDMA Peak to Average Ratio\_Part22-24-27(NTNV)(Channel:1513)



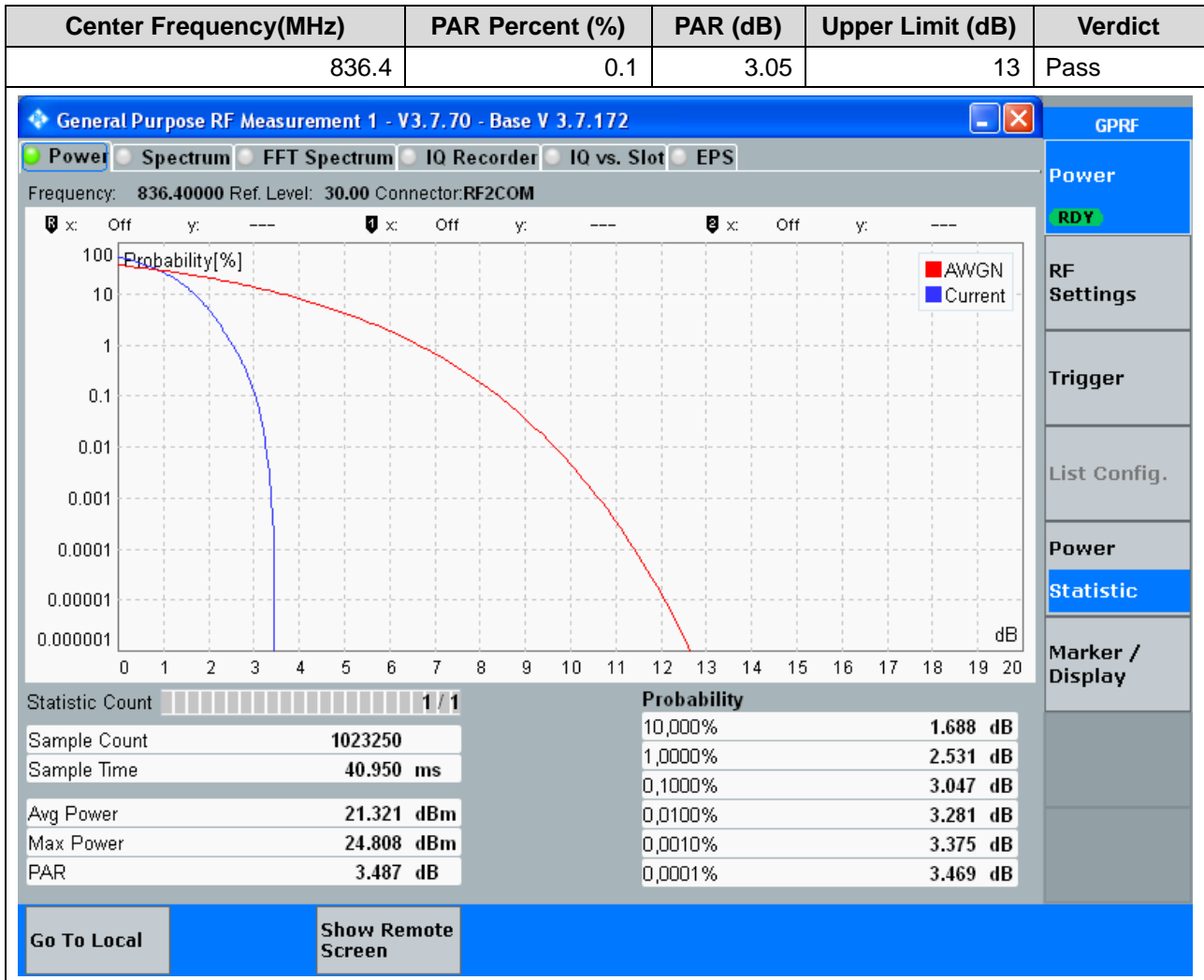
### 3. WCDMA\_Band5

#### 3.1. WCDMA Peak to Average Ratio\_Part22-24-27(NTNV)(Channel:4132)

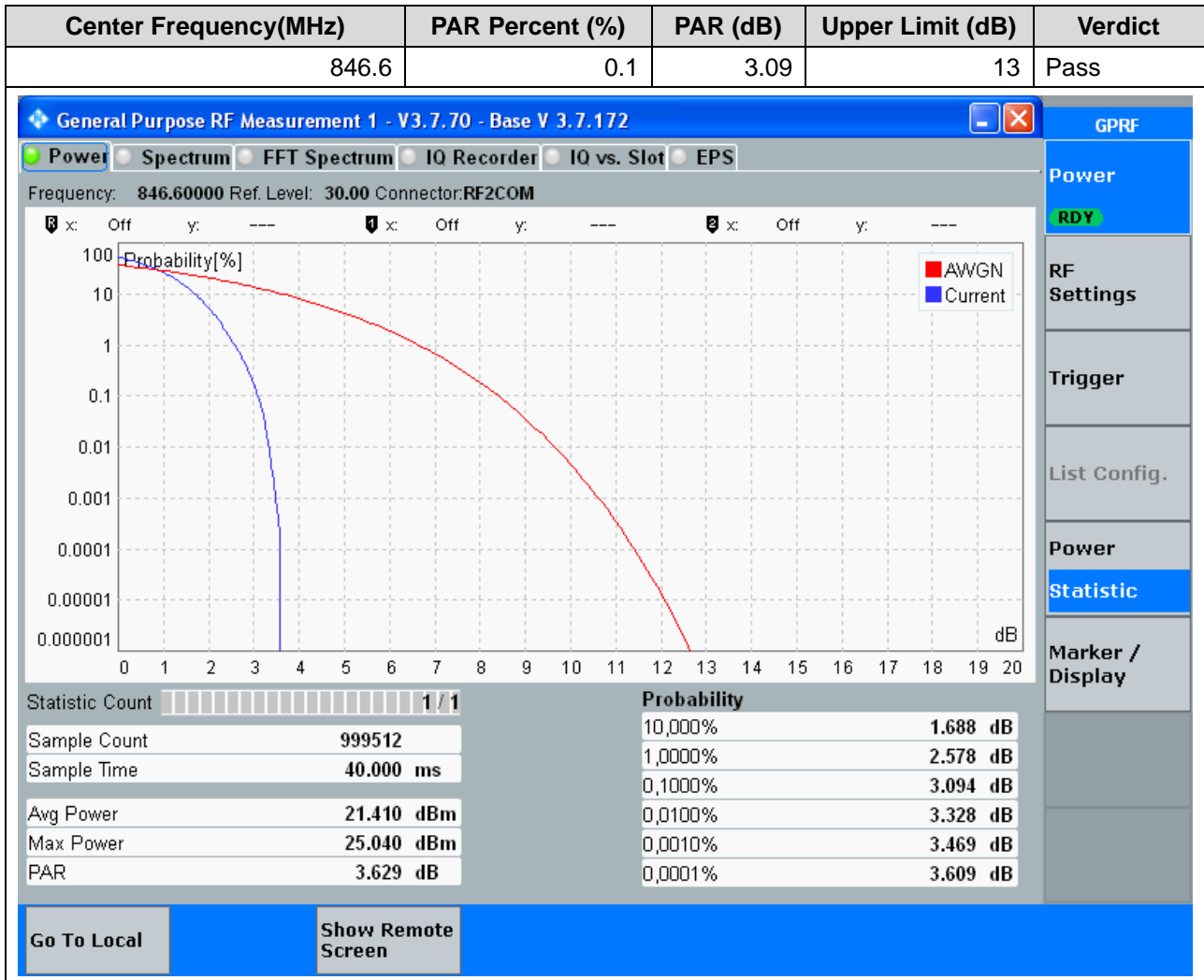




### 3.2. WCDMA Peak to Average Ratio\_Part22-24-27(NTNV)(Channel:4182)

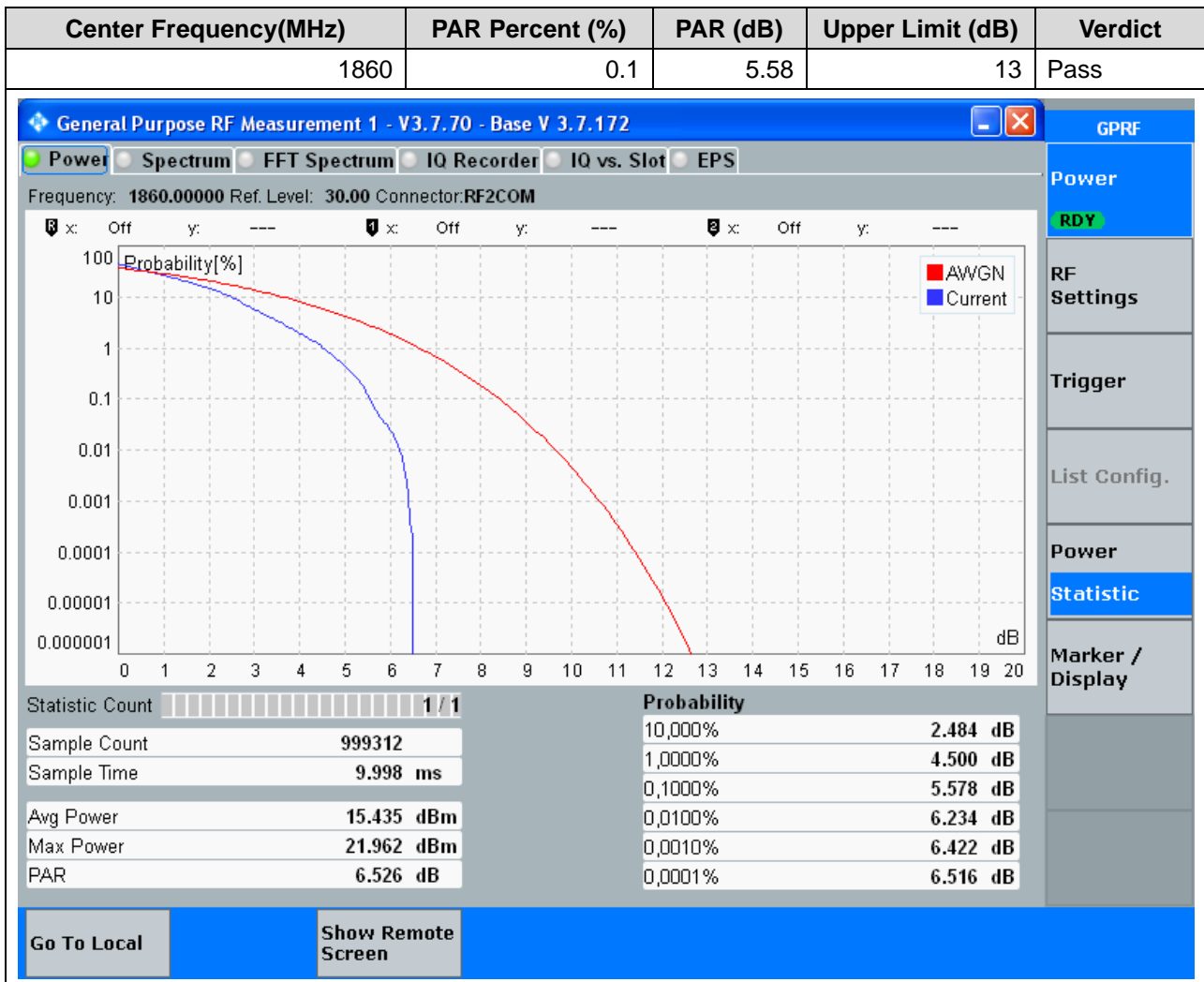


### 3.3. WCDMA Peak to Average Ratio\_Part22-24-27(NTNV)(Channel:4233)

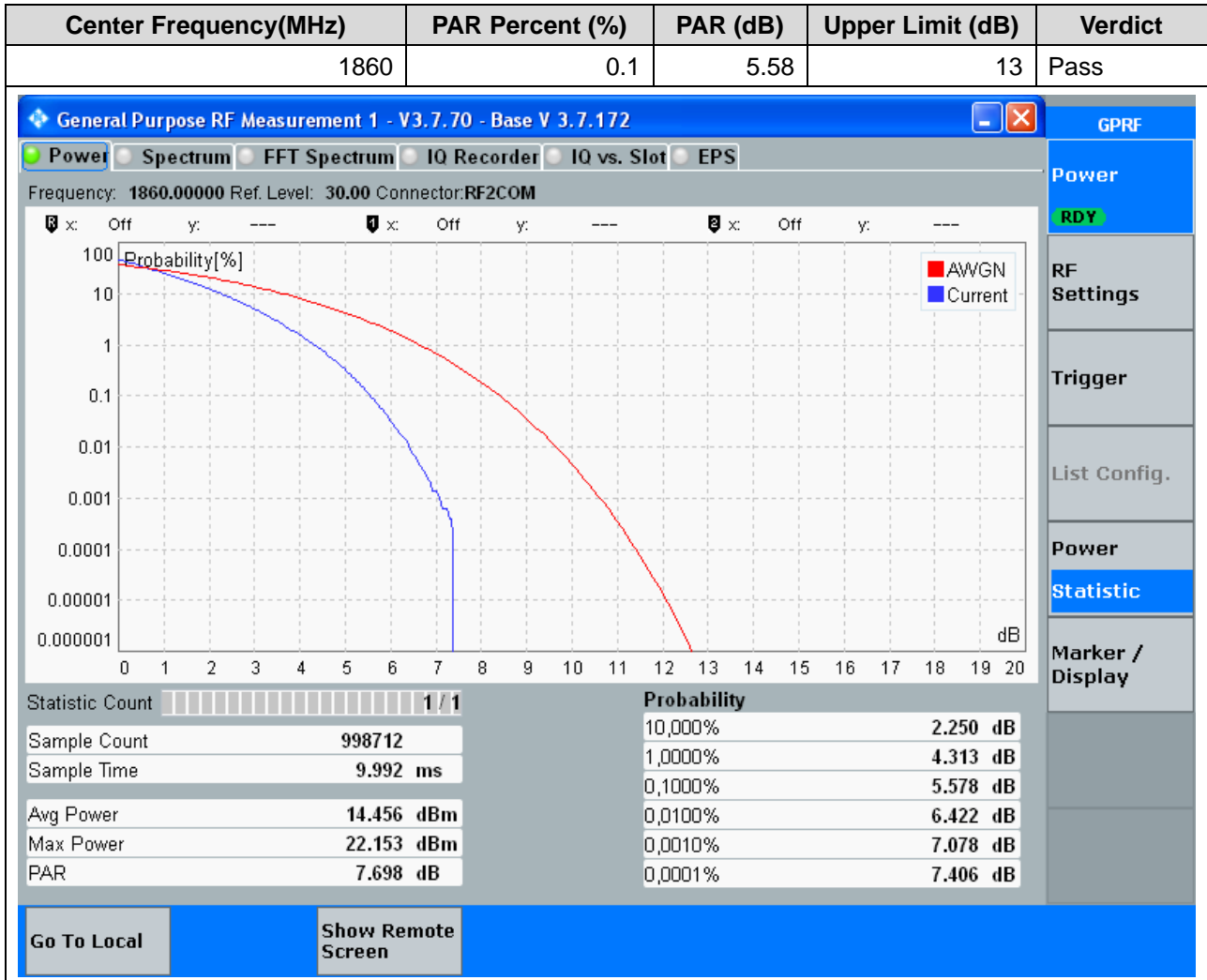


## 1. LTE\_Band2

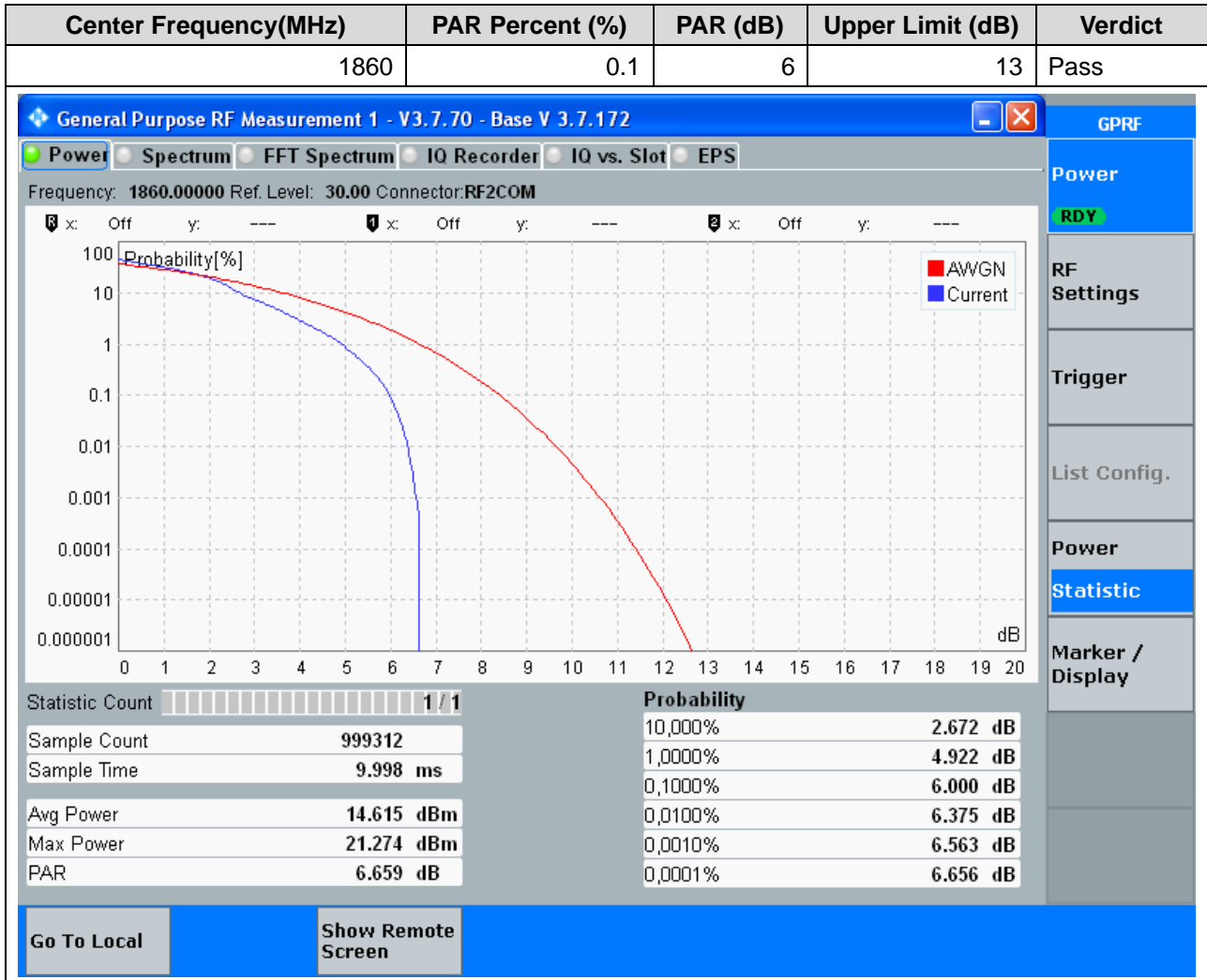
### 1.1. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:1, Channel:18700, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



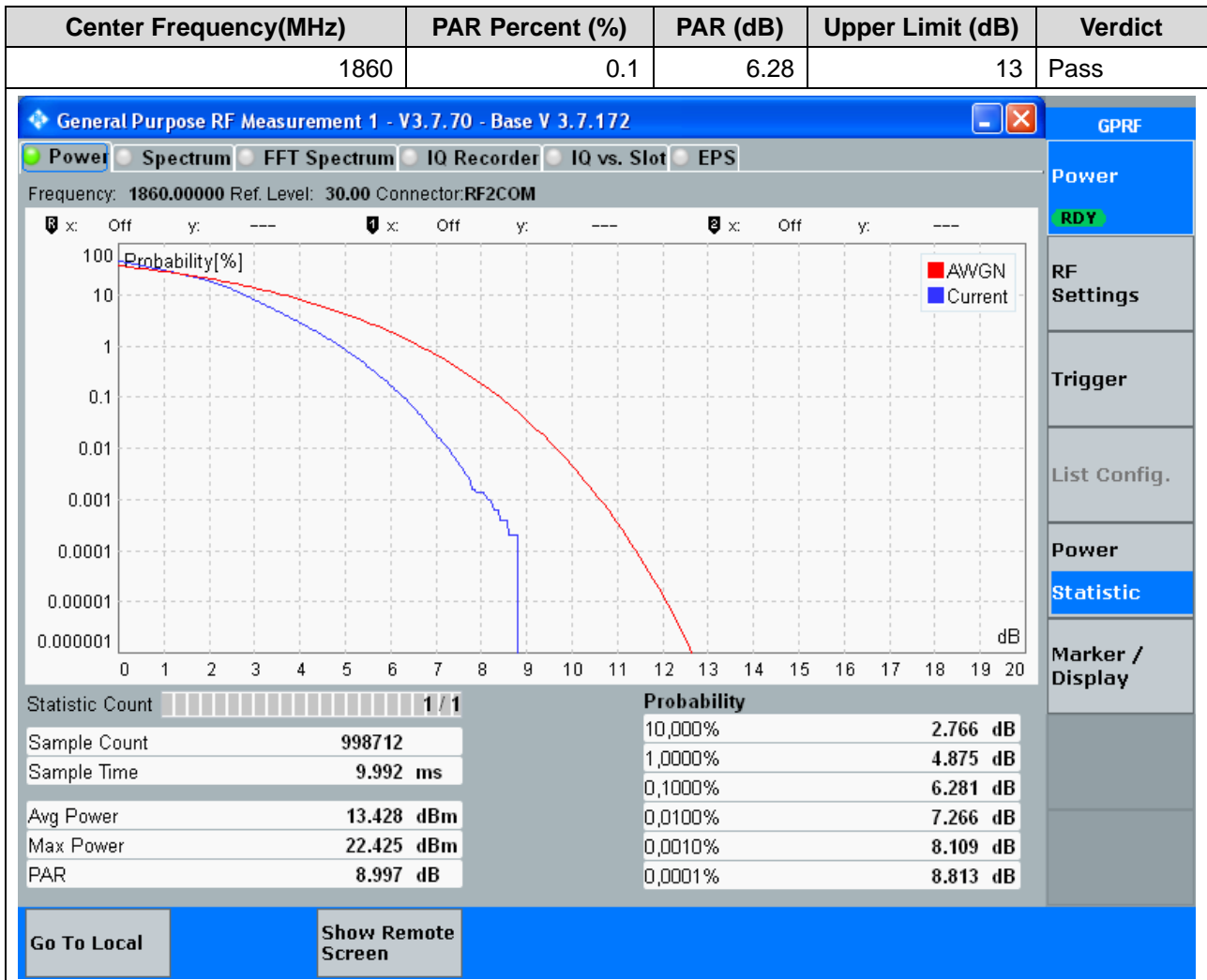
**1.2. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:2, Channel:18700, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



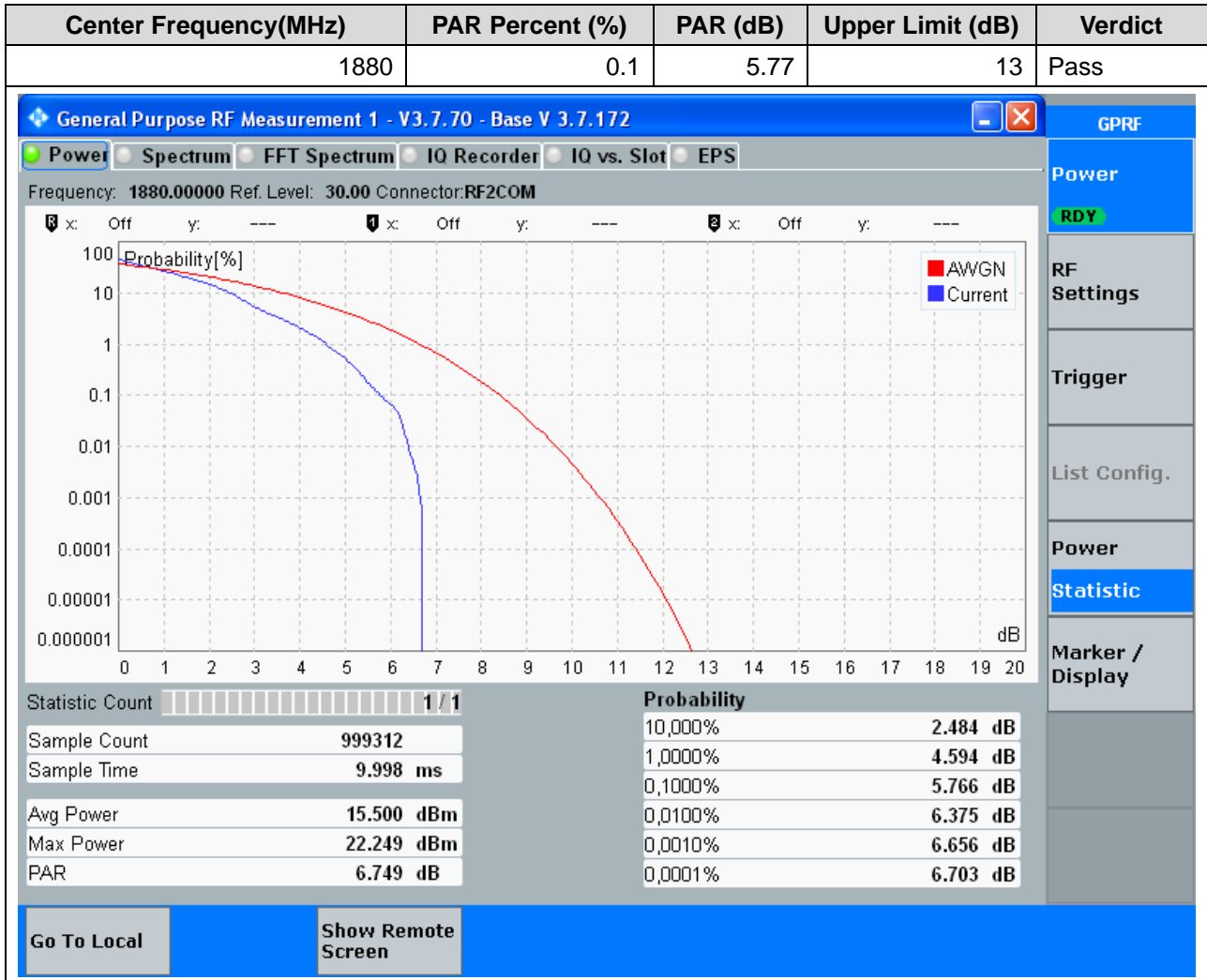
### 1.3. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:3, Channel:18700, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



### 1.4. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:4, Channel:18700, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



**1.5. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:5, Channel:18900, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)**



**1.6. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:6, Channel:18900, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

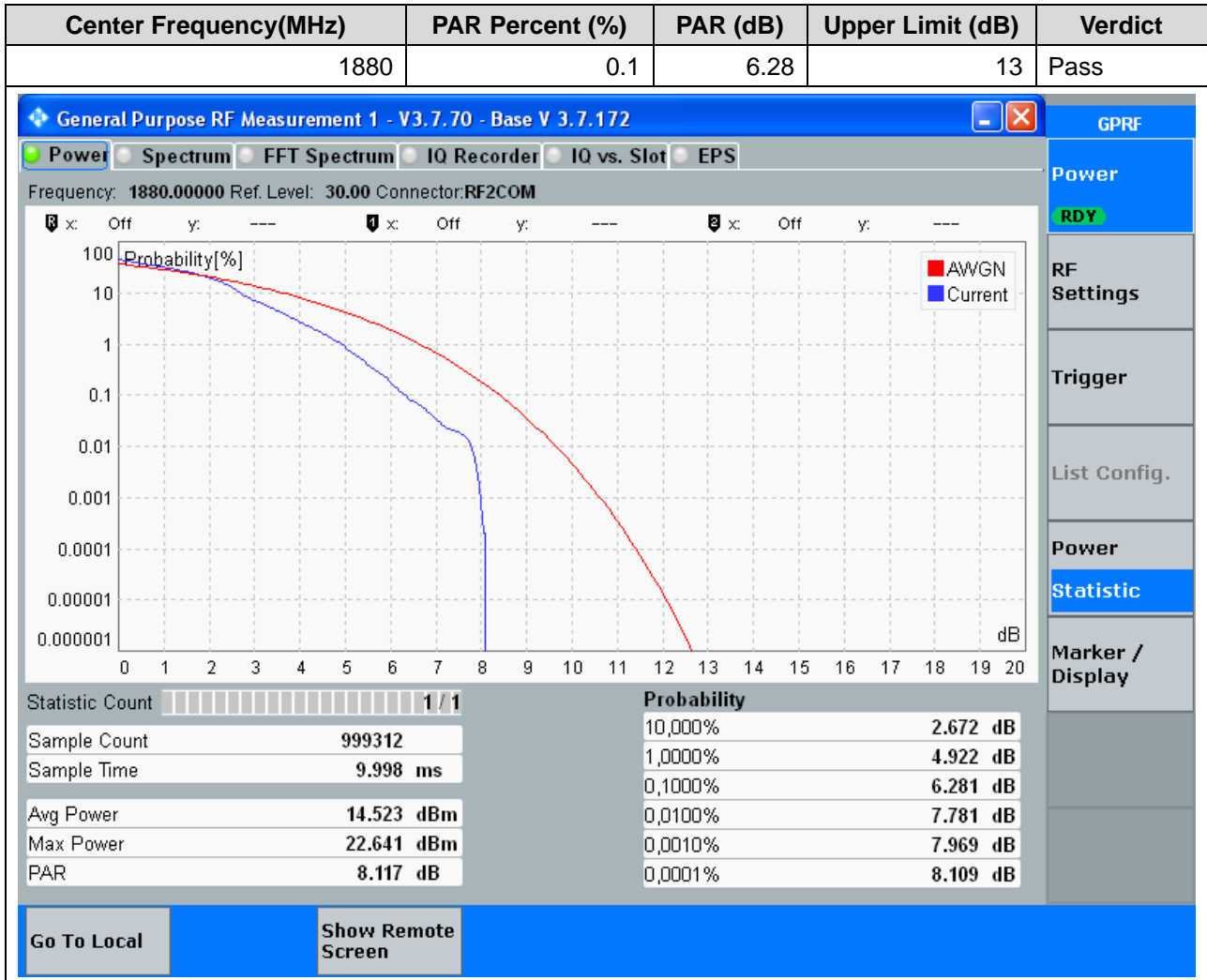
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	5.67	13	Pass

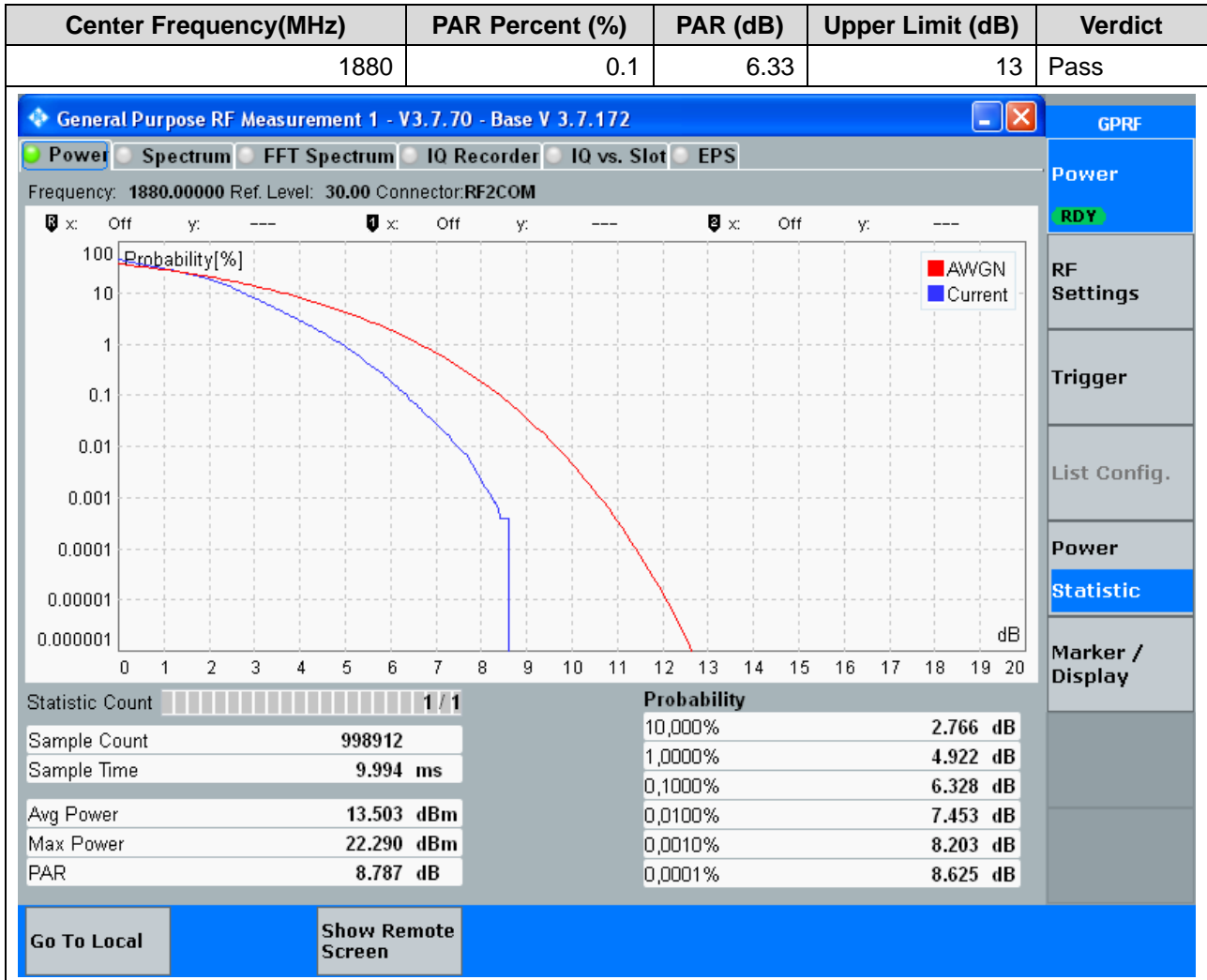
Statistic Count	Probability	Value
1 / 1	10,000%	2.250 dB
Sample Count	1,0000%	4.359 dB
Sample Time	0,1000%	5.672 dB
Avg Power	0,0100%	6.422 dB
Max Power	0,0010%	6.984 dB
PAR	0,0001%	7.406 dB



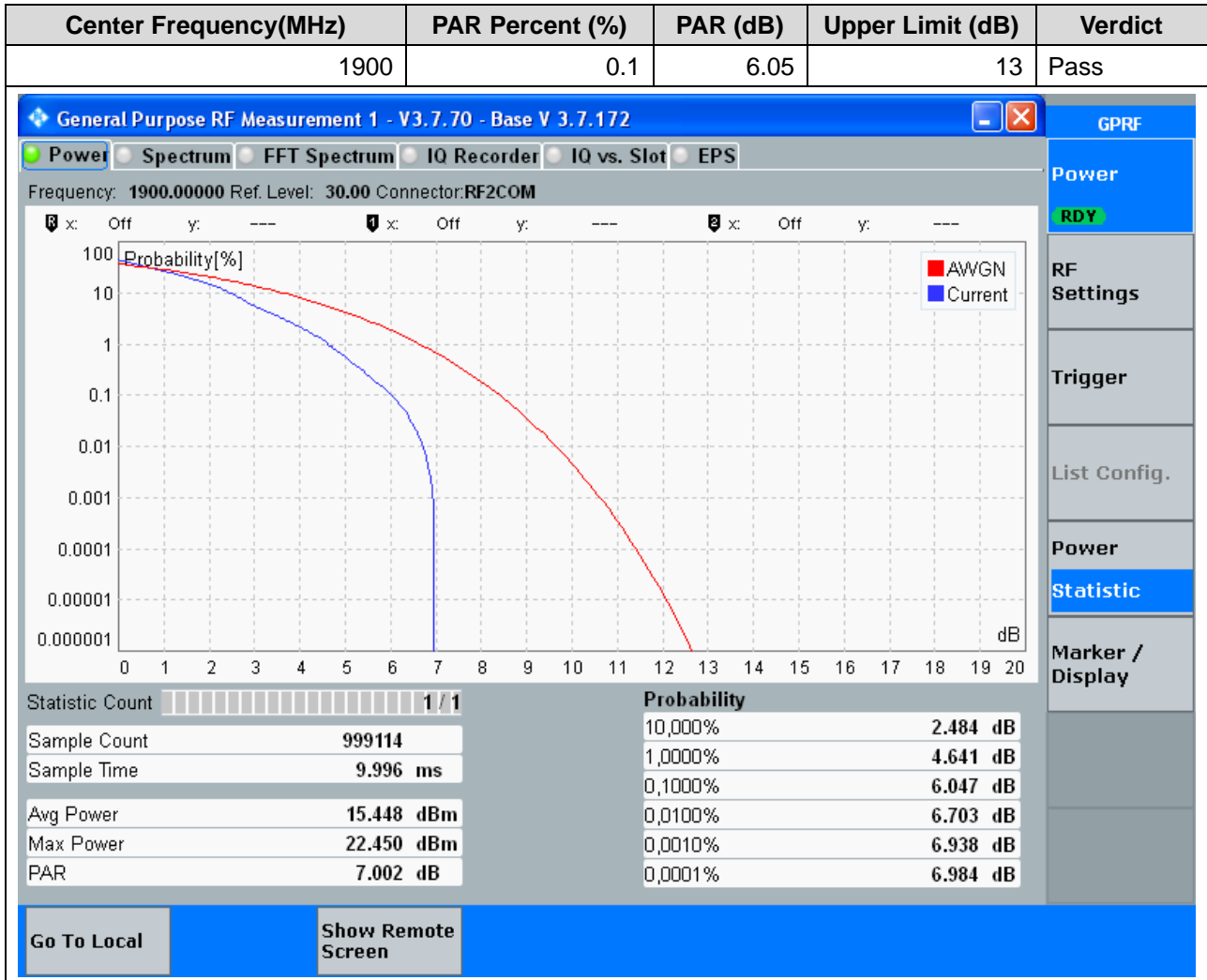
**1.7. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:7, Channel:18900, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)**



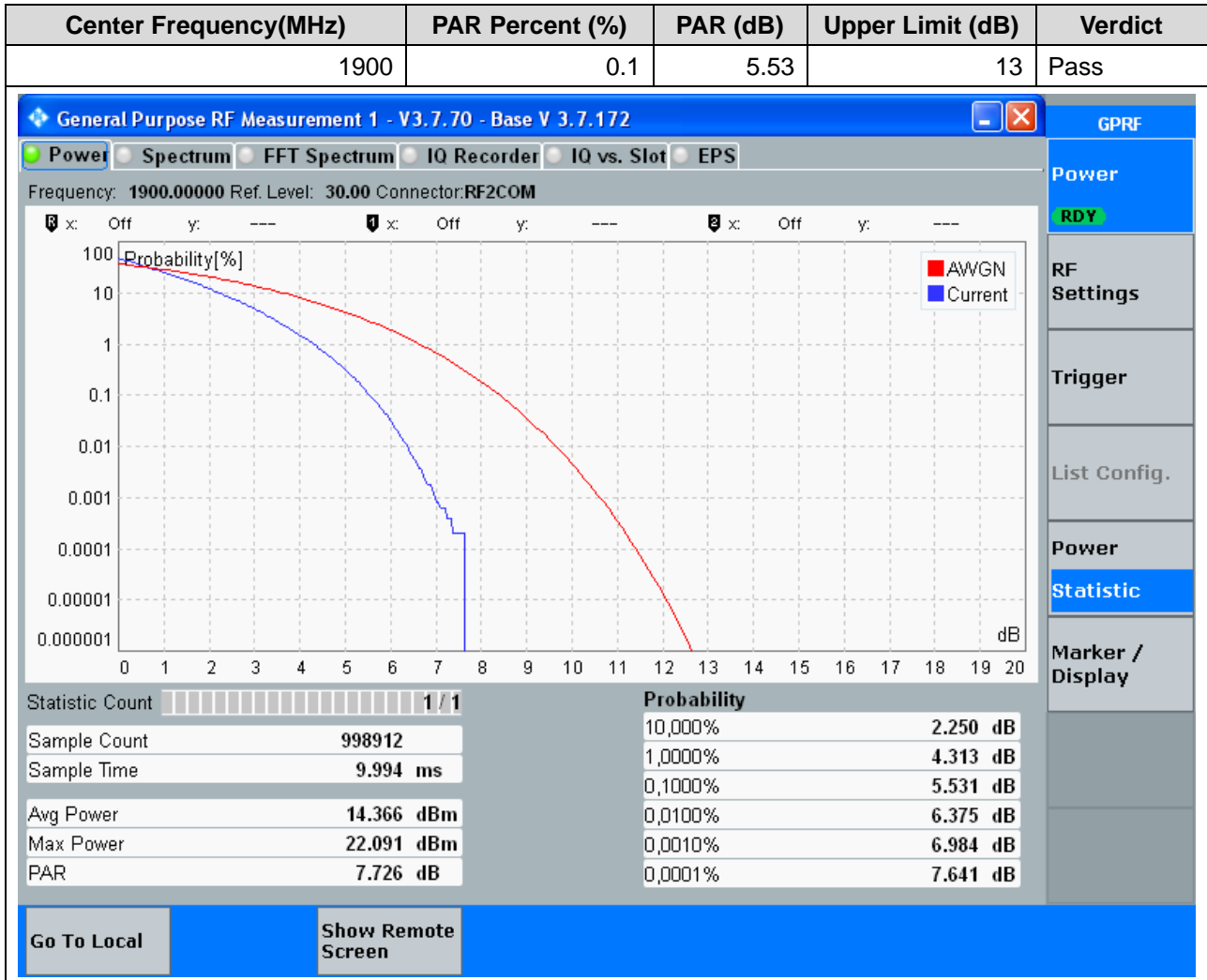
**1.8. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:8, Channel:18900, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



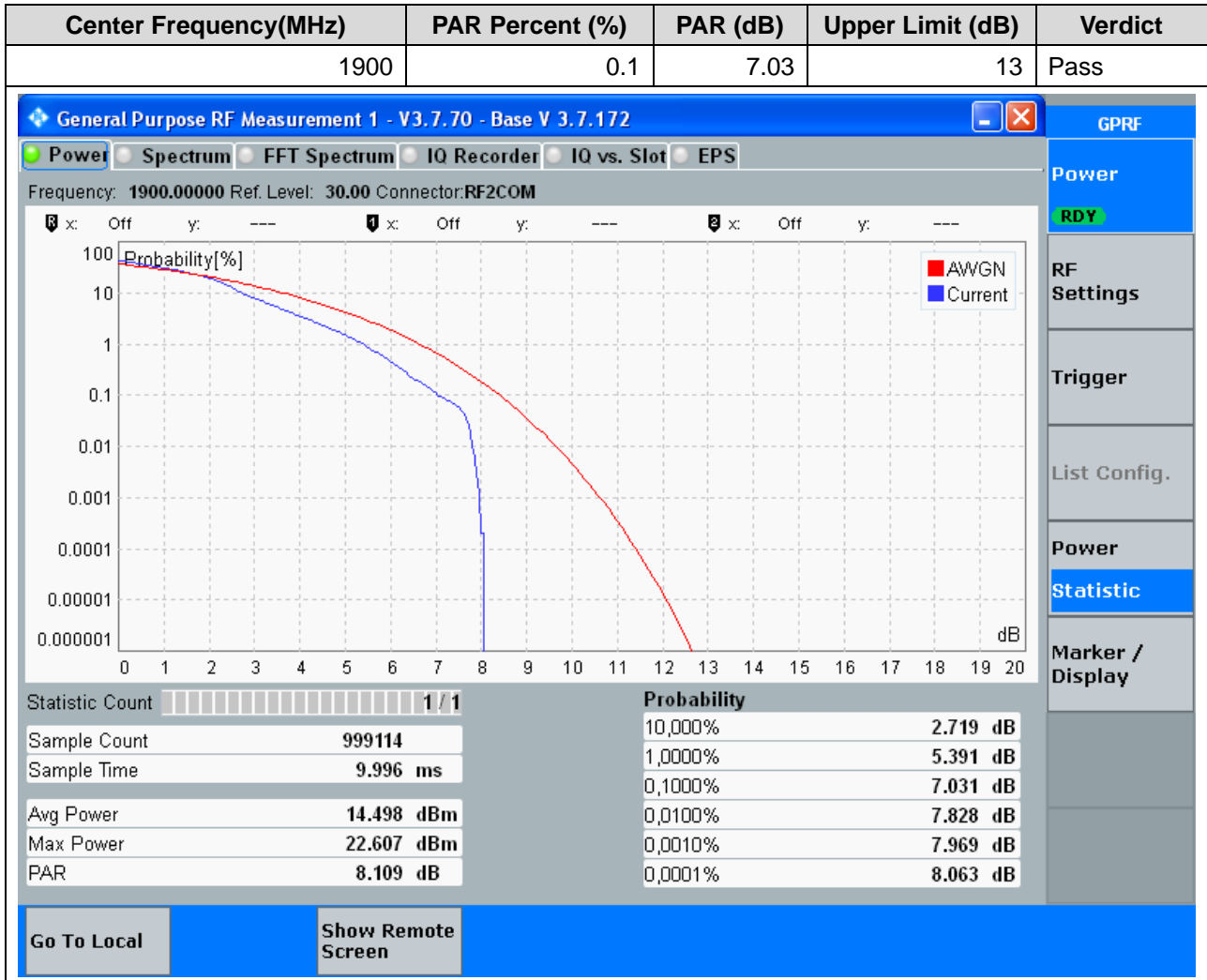
**1.9. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:9, Channel:19100, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)**



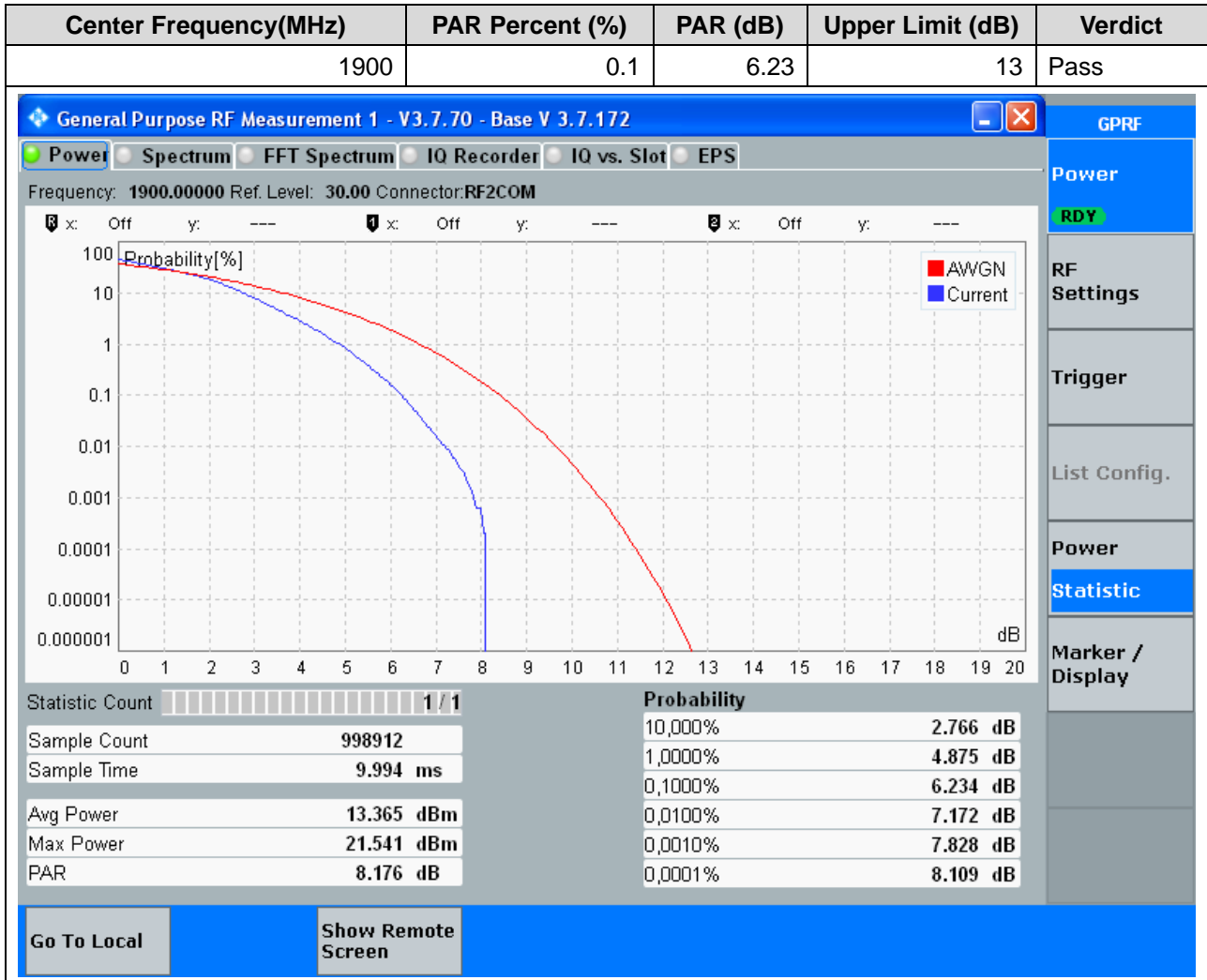
**1.10. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:10, Channel:19100, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



**1.11. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:11, Channel:19100, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)**

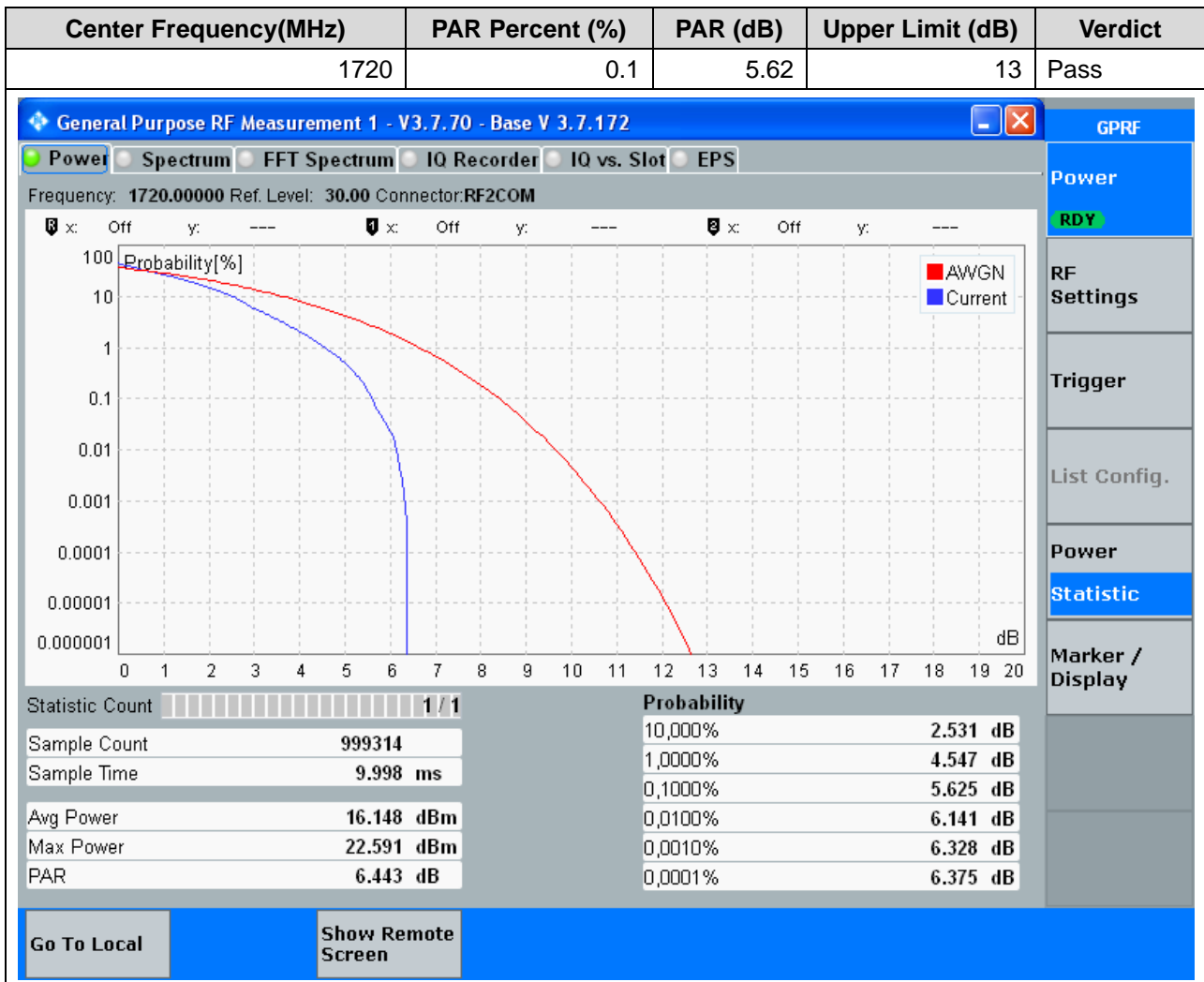


**1.12. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:12, Channel:19100, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

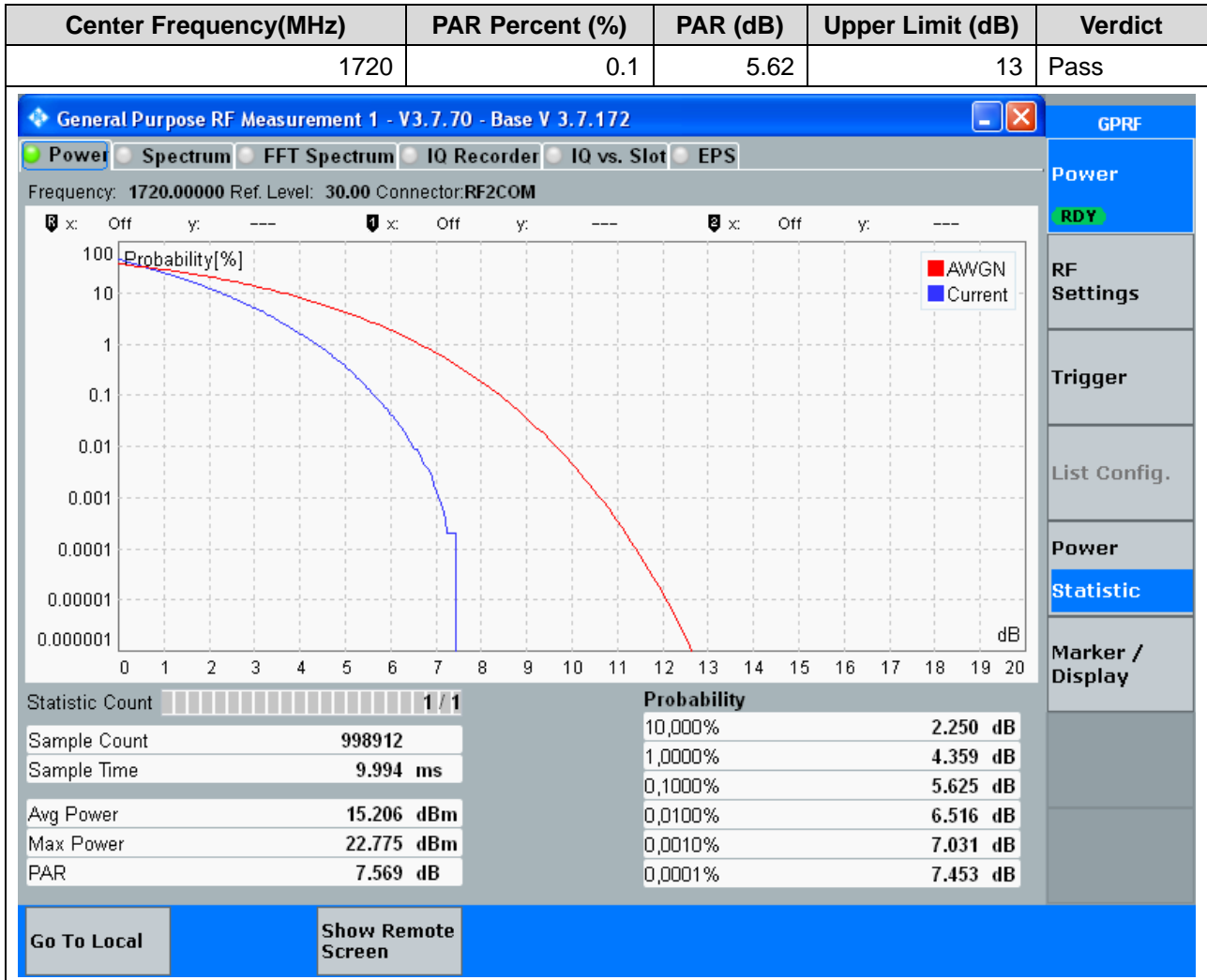


## 2. LTE\_Band4

### 2.1. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:1, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

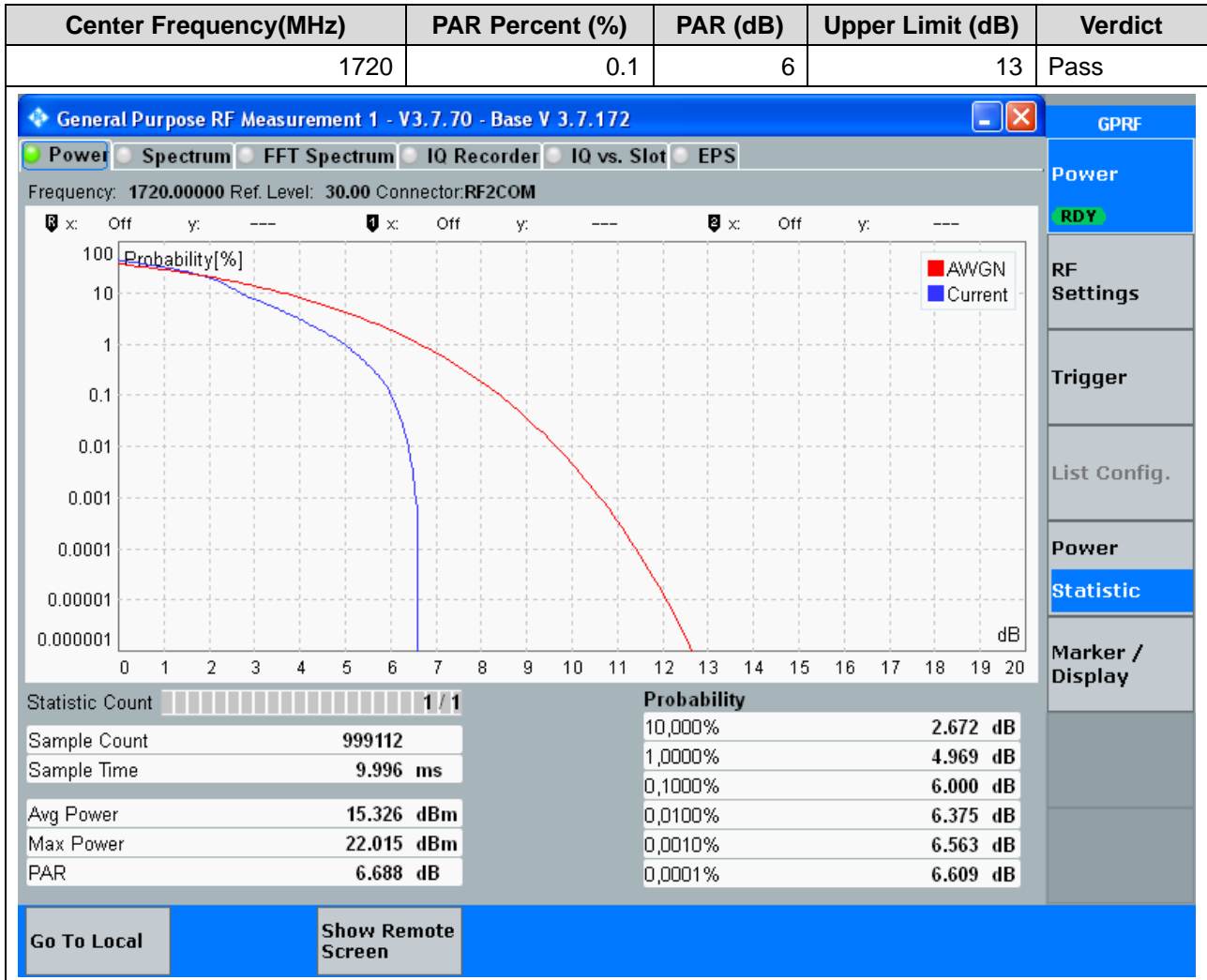


**2.2. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:2, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

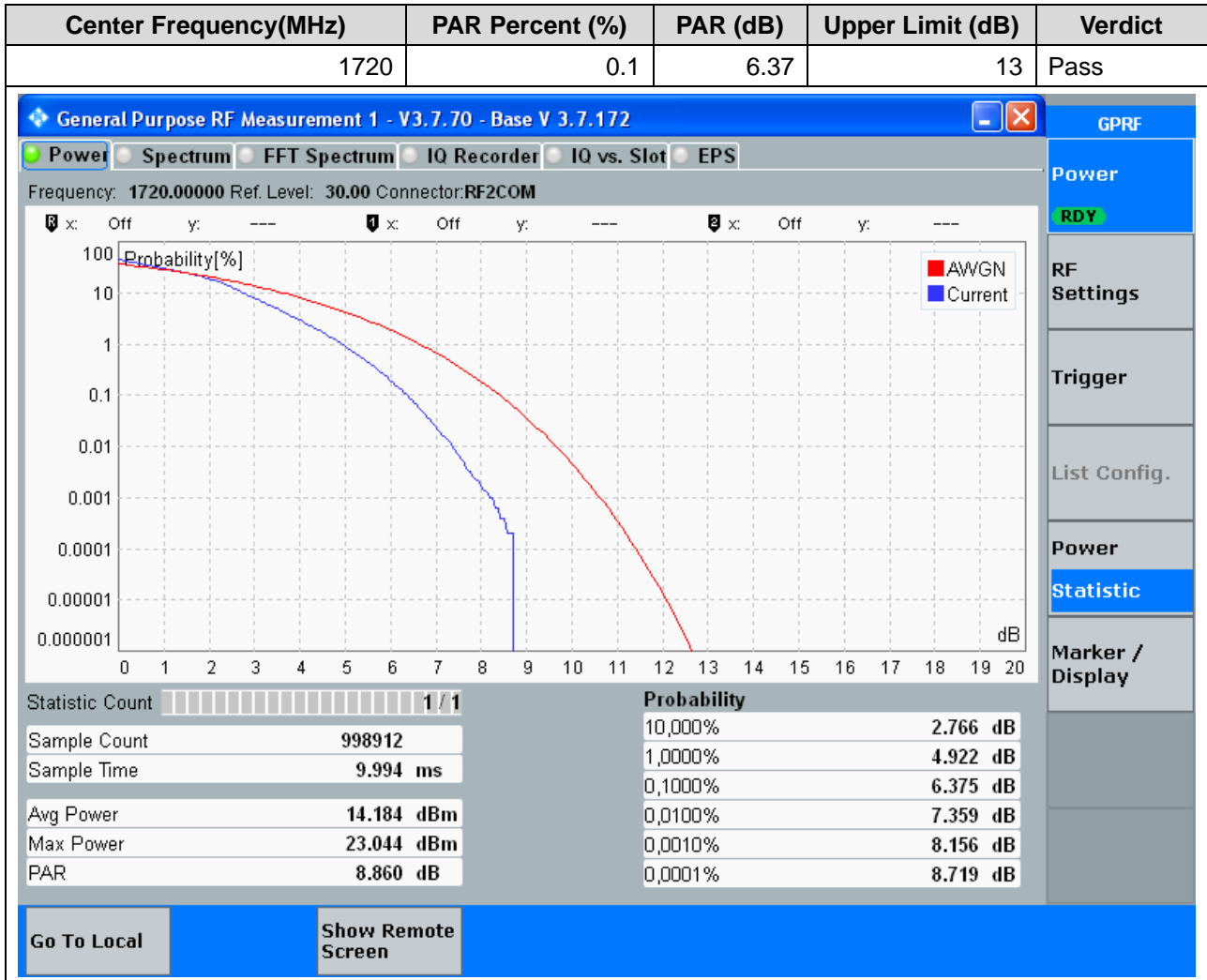




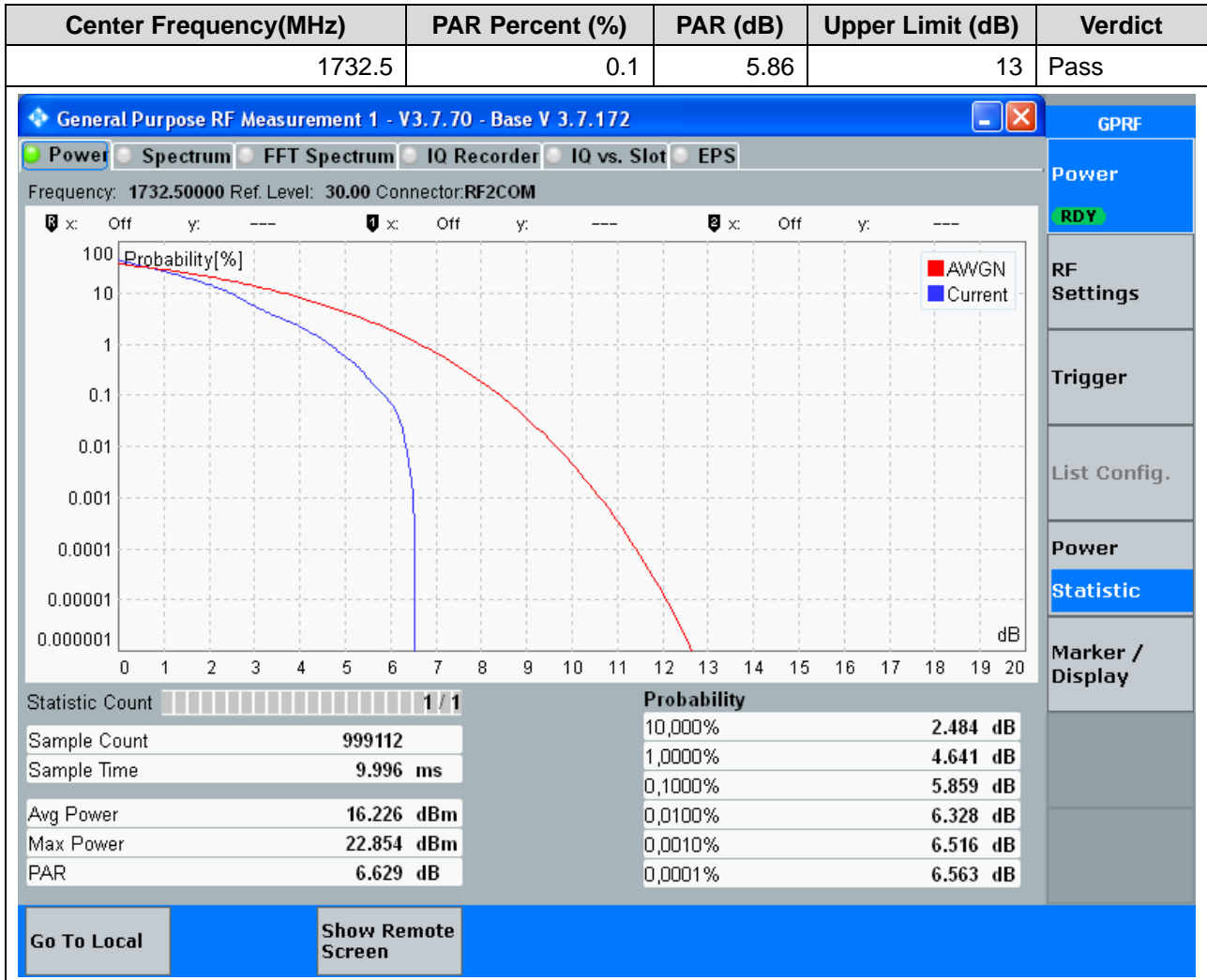
### 2.3. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:3, Channel:20050, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



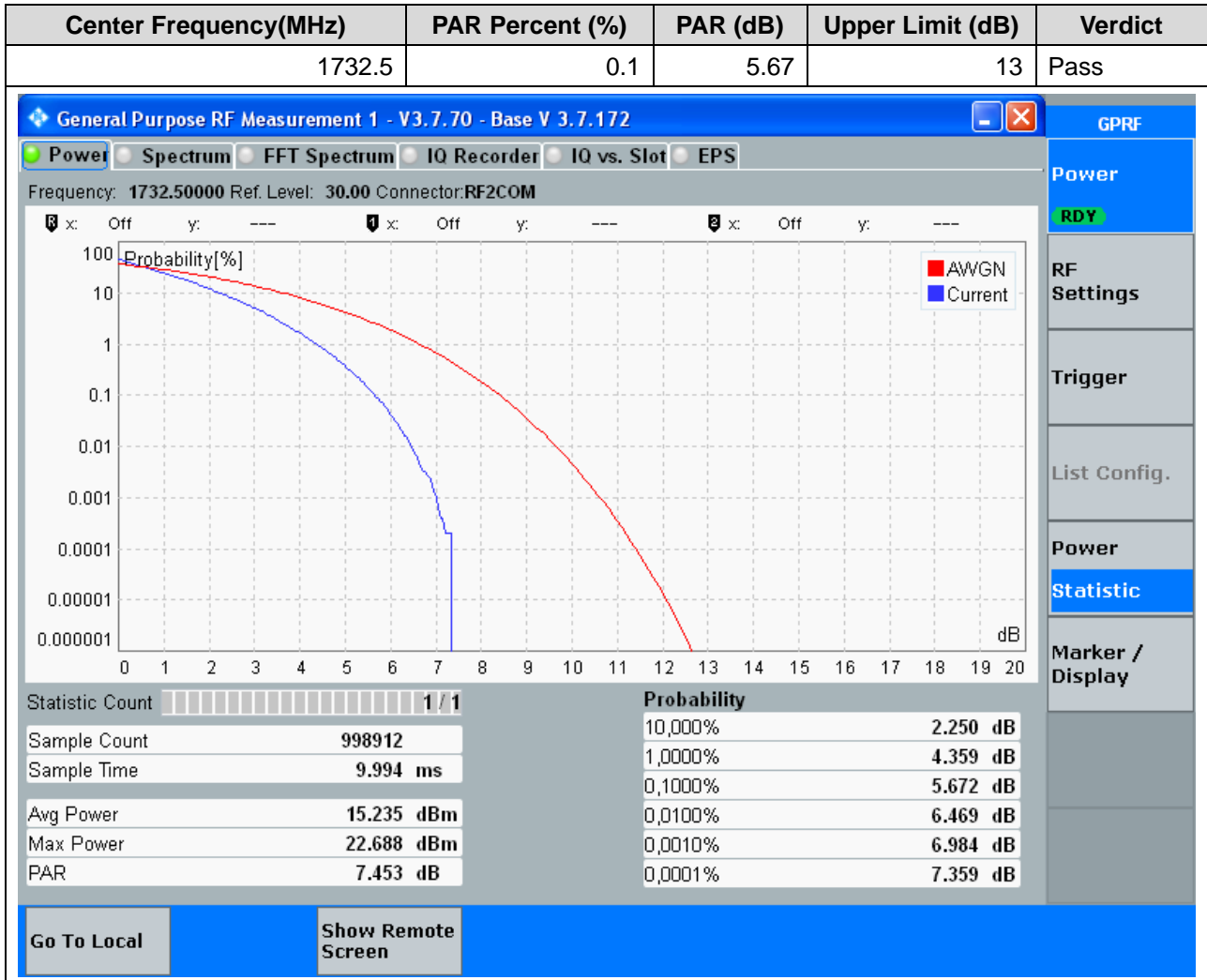
**2.4. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:4, Channel:20050, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



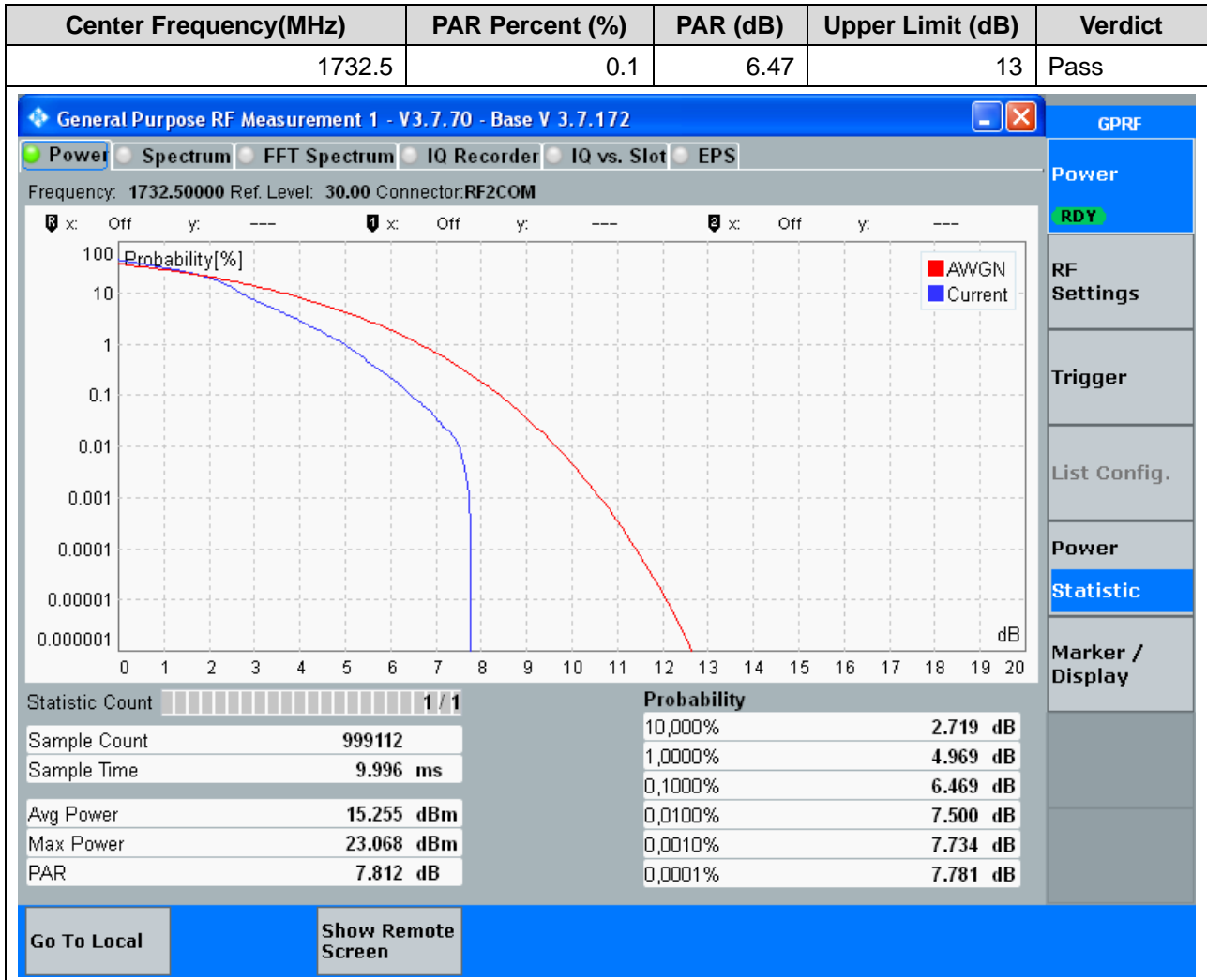
**2.5. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:5, Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)**



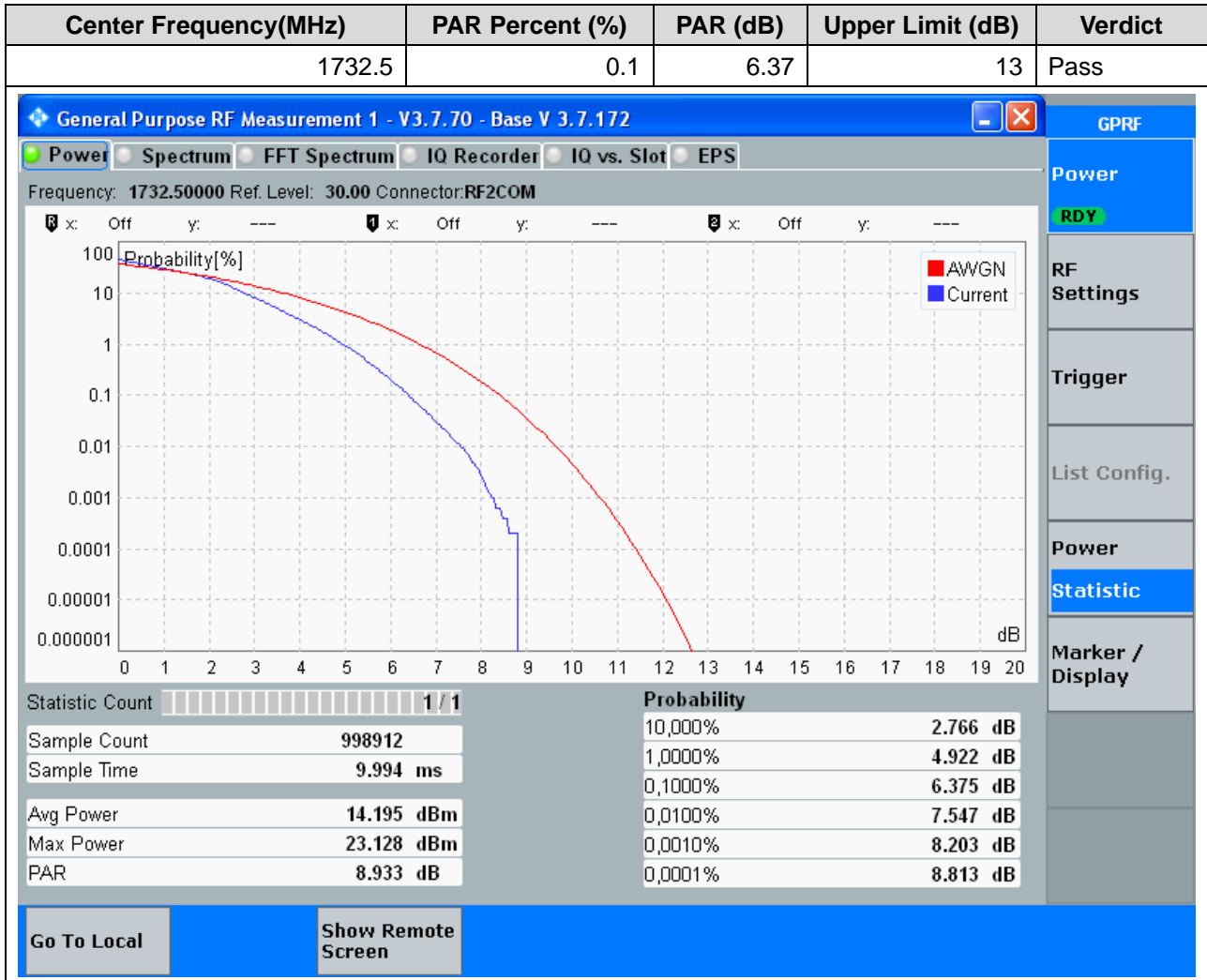
**2.6. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:6, Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



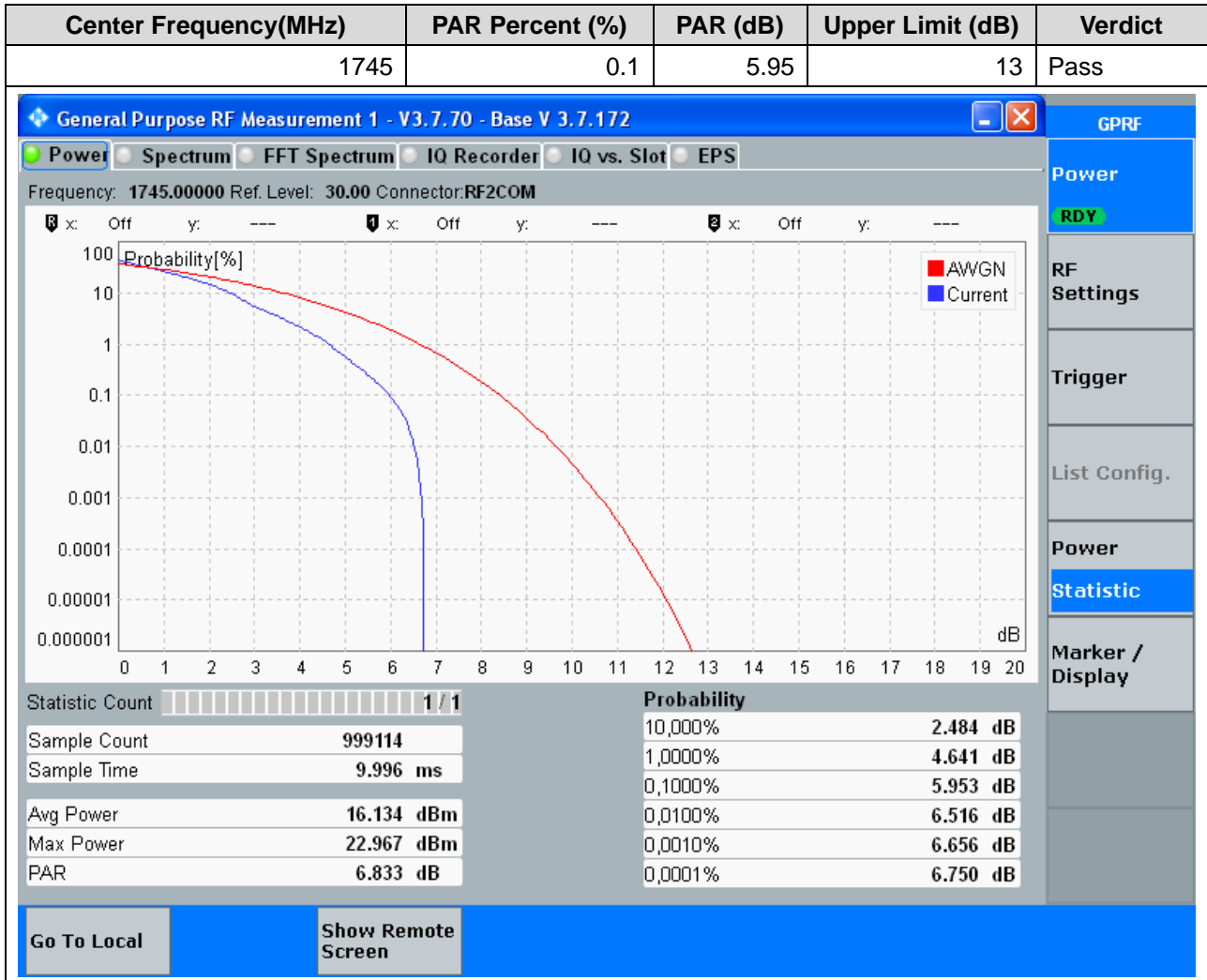
**2.7. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:7, Channel:20175, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)**



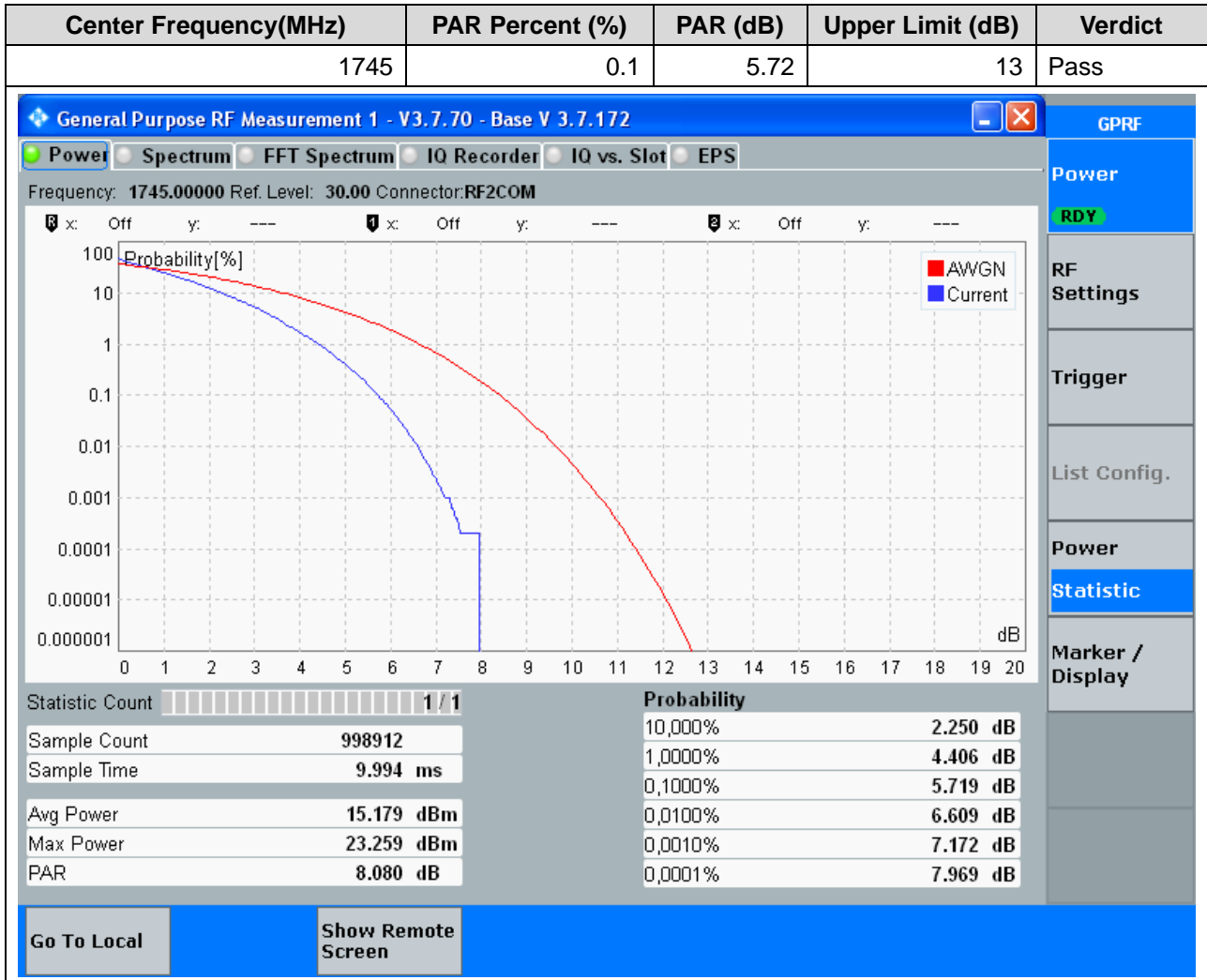
**2.8. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:8, Channel:20175, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



**2.9. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:9, Channel:20300, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)**

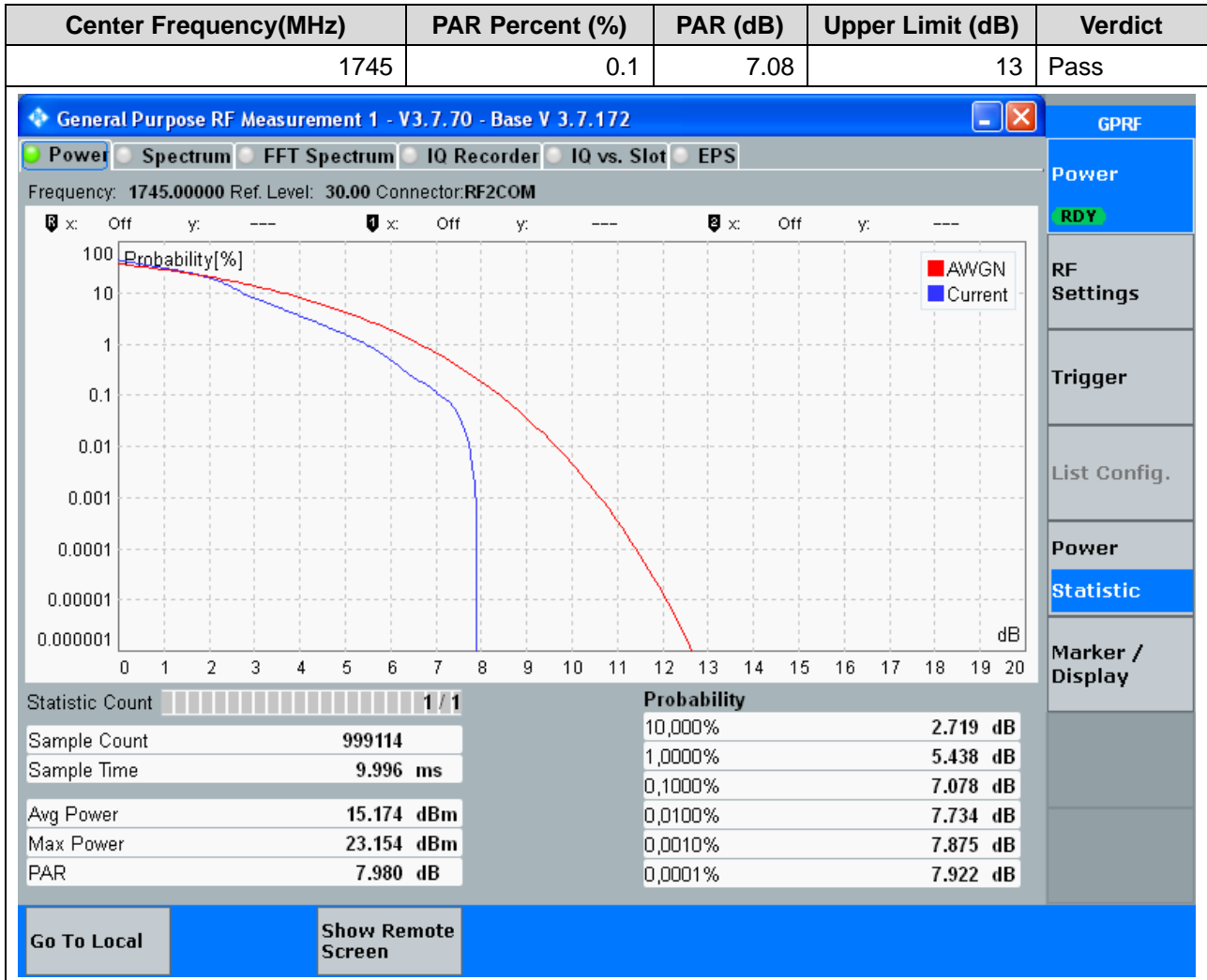


**2.10. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:10, Channel:20300, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

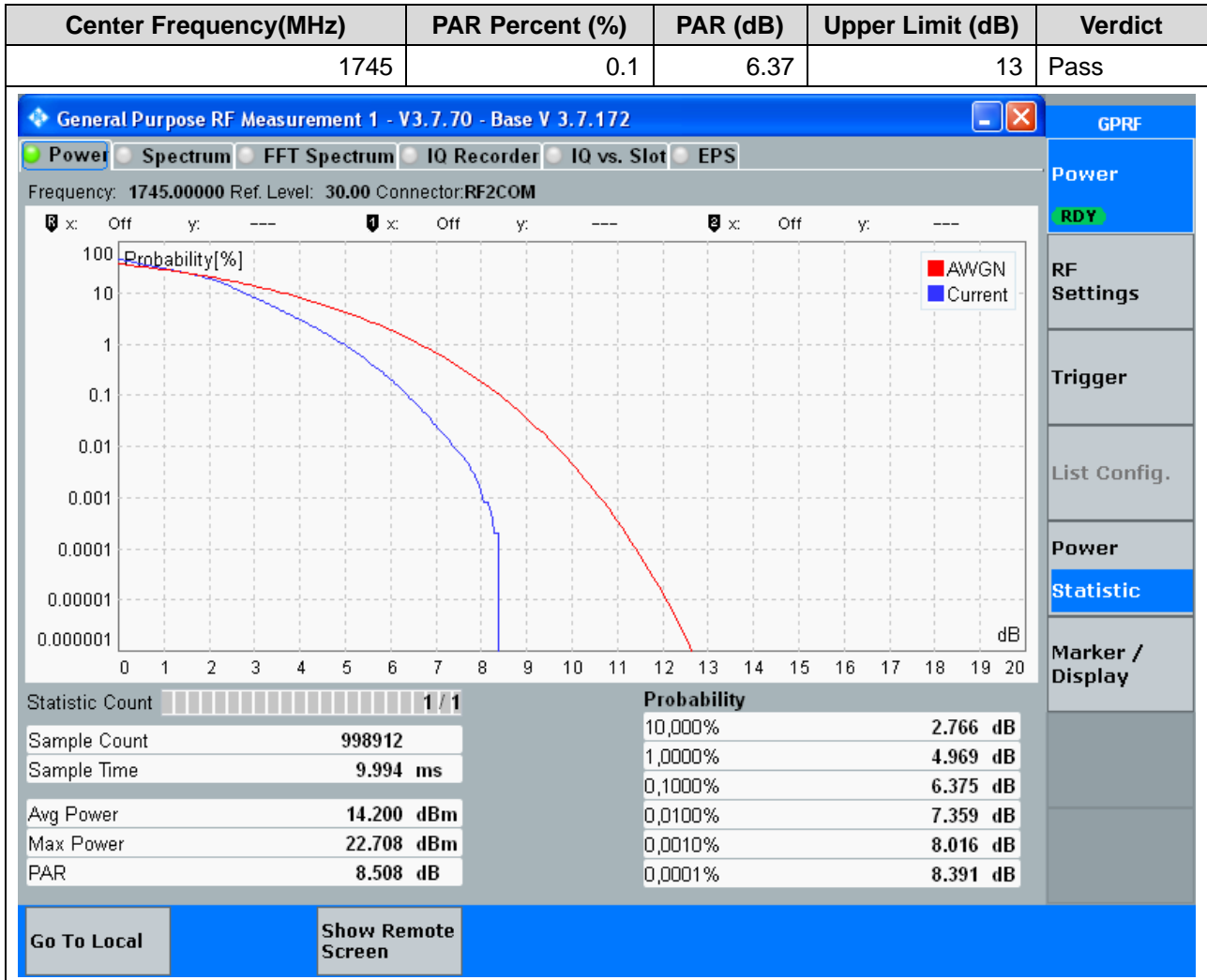




**2.11. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:11, Channel:20300, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)**

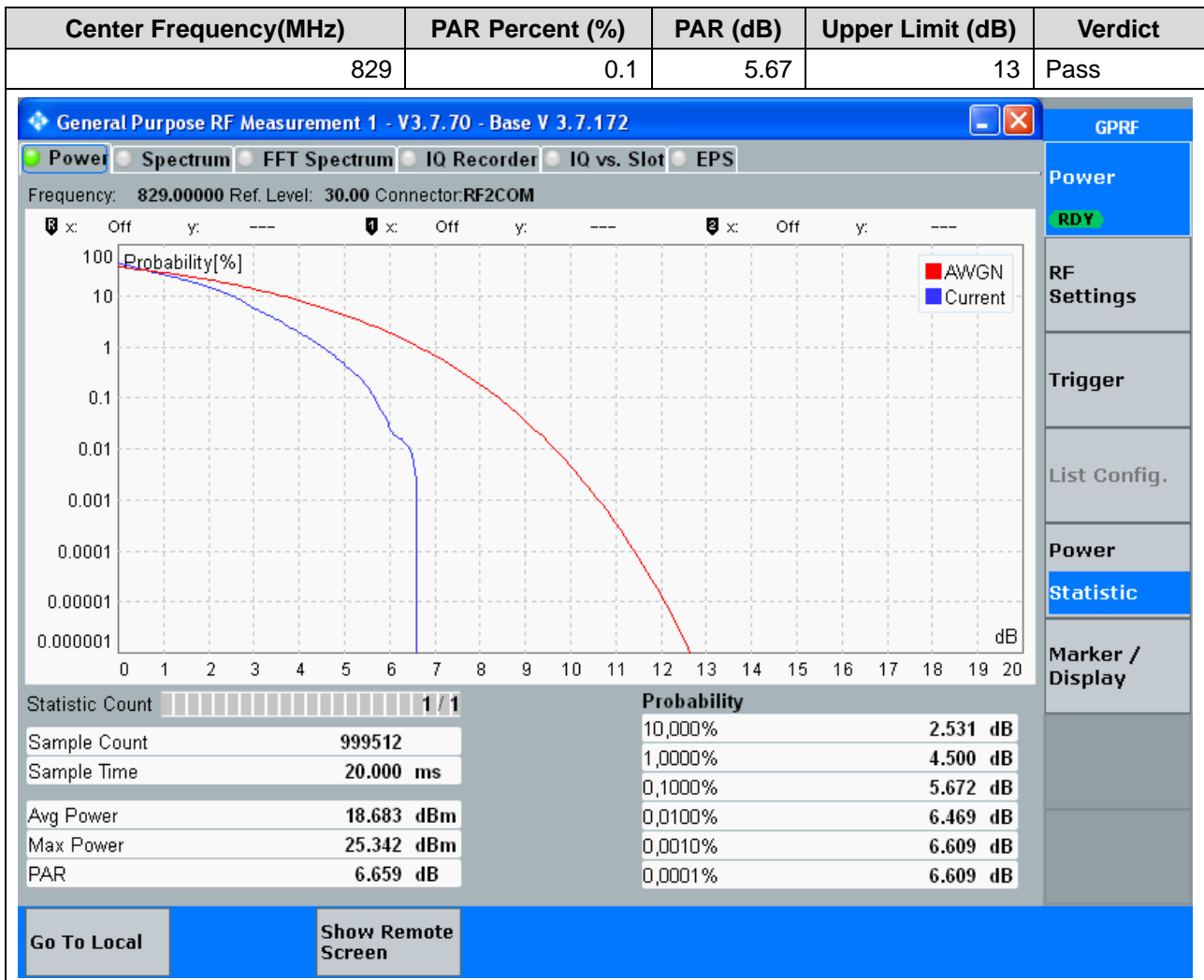


**2.12. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:12, Channel:20300, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

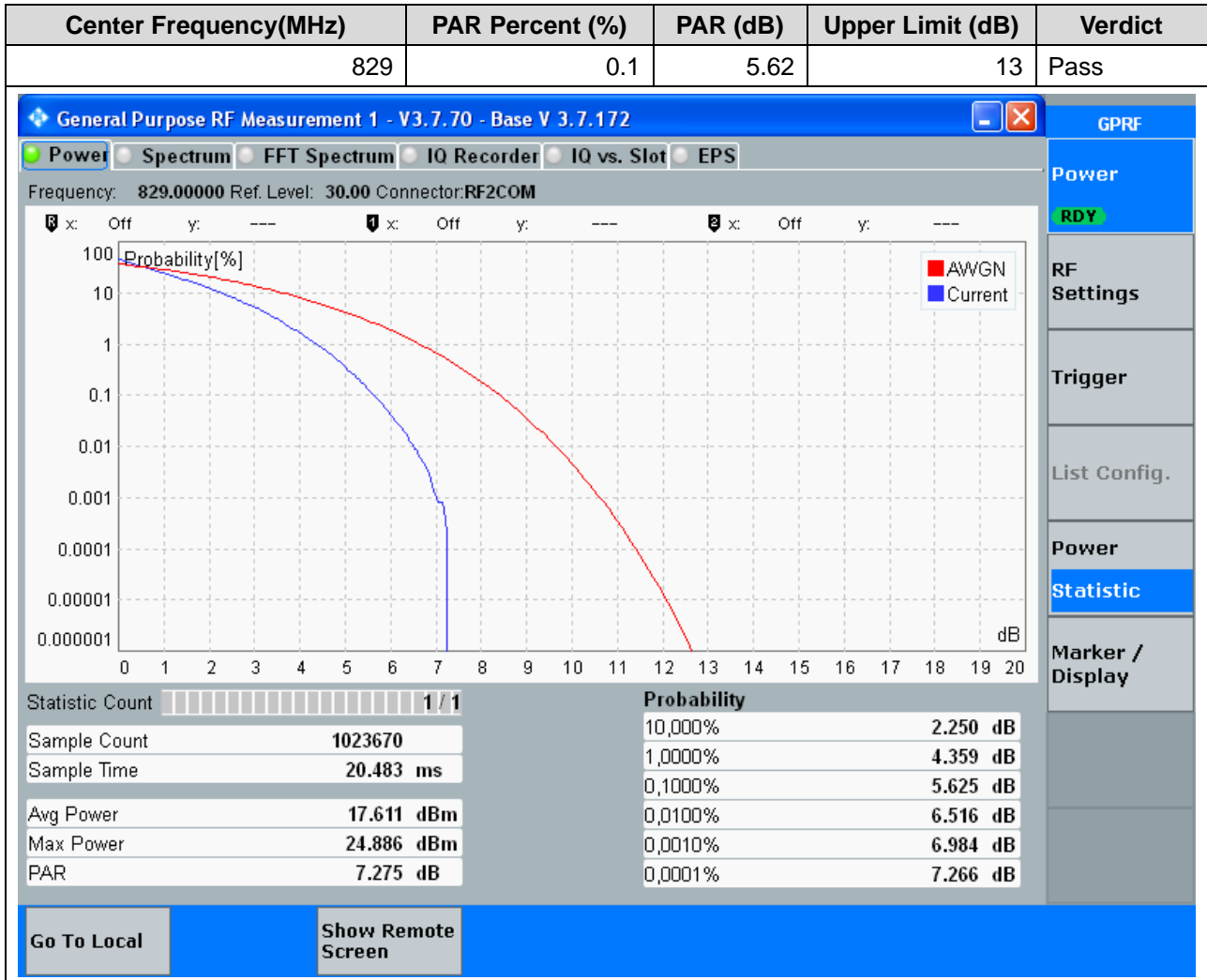


### 3. LTE\_Band5

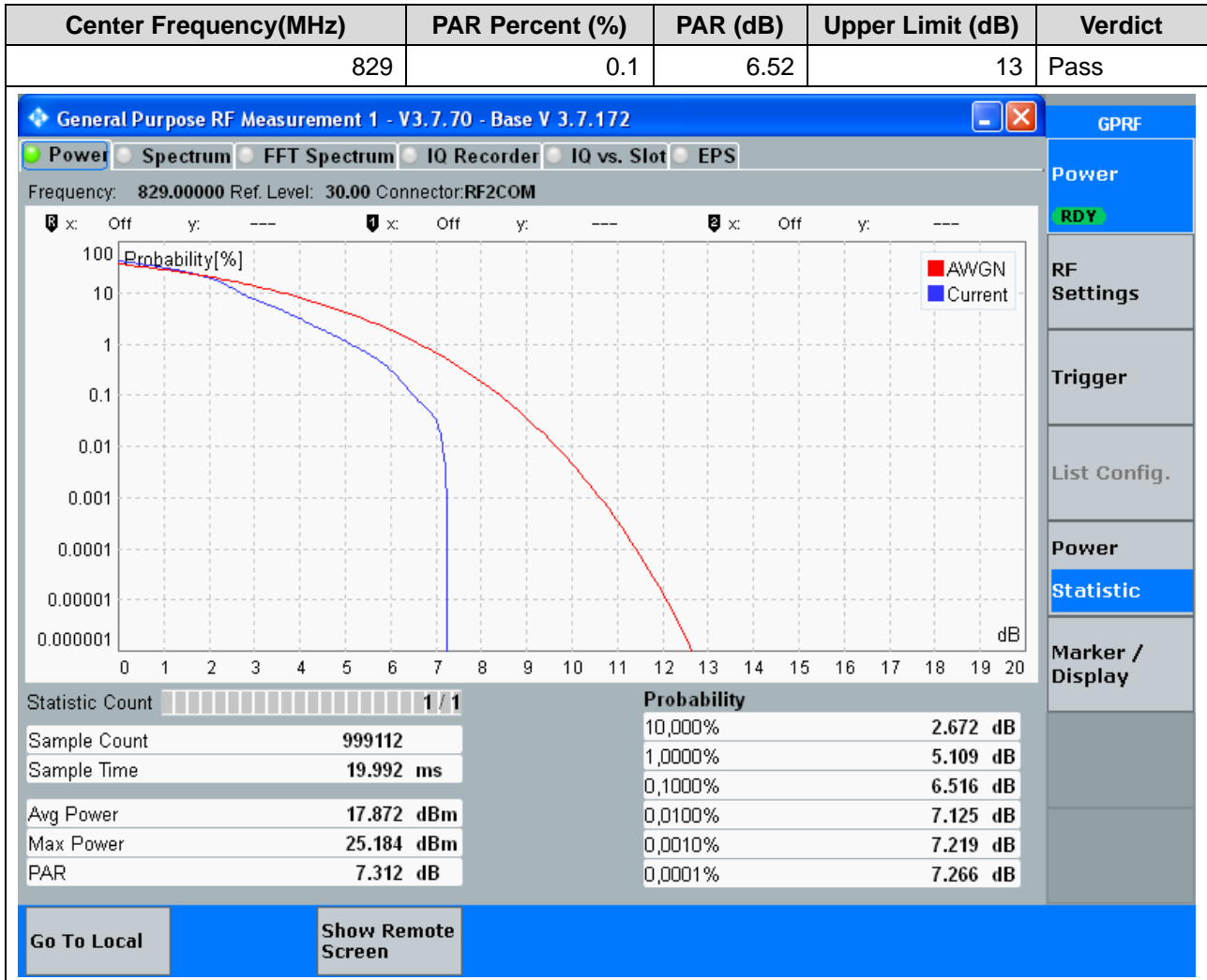
#### 3.1. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:1, Channel:20450, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)



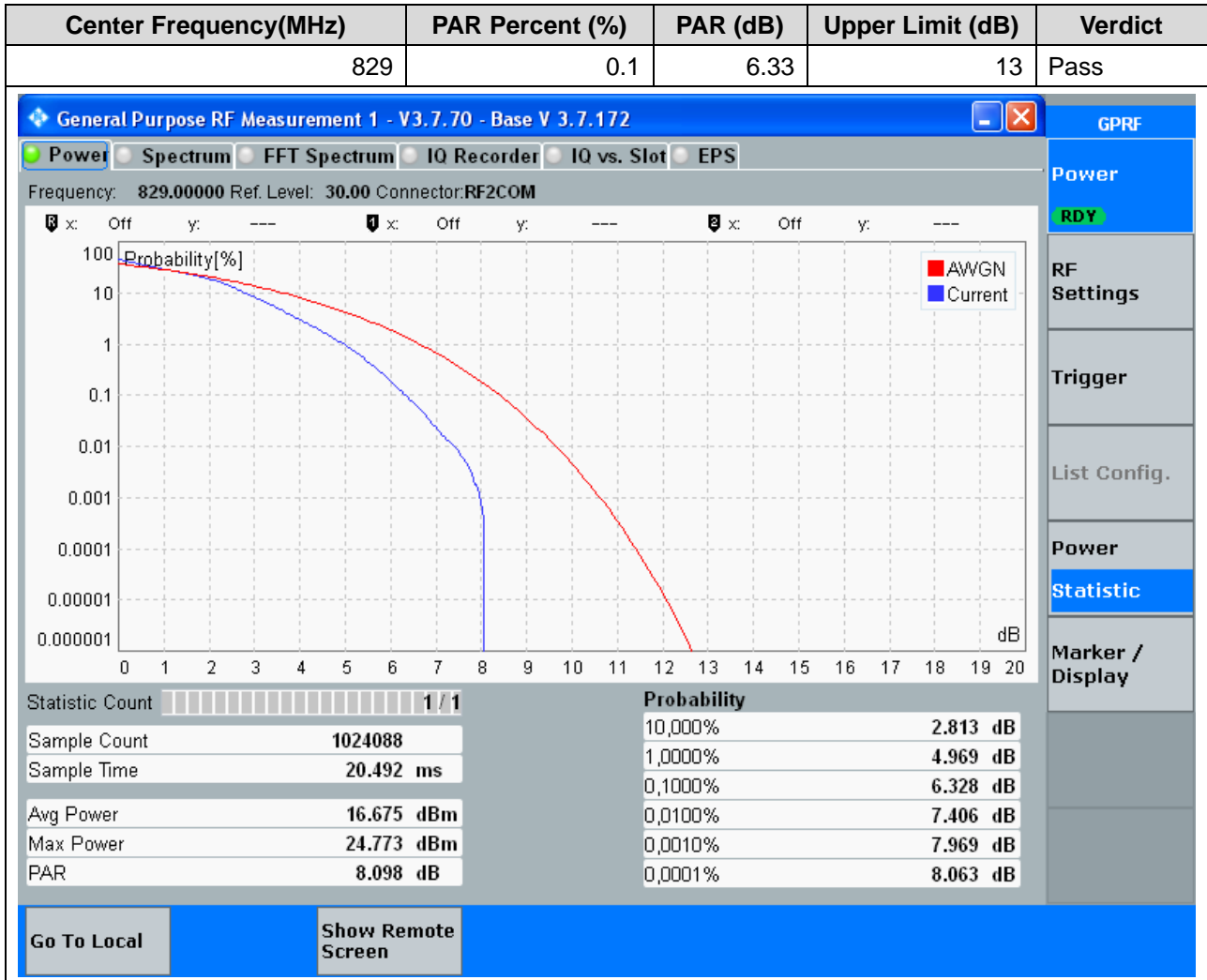
### 3.2. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:2, Channel:20450, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)



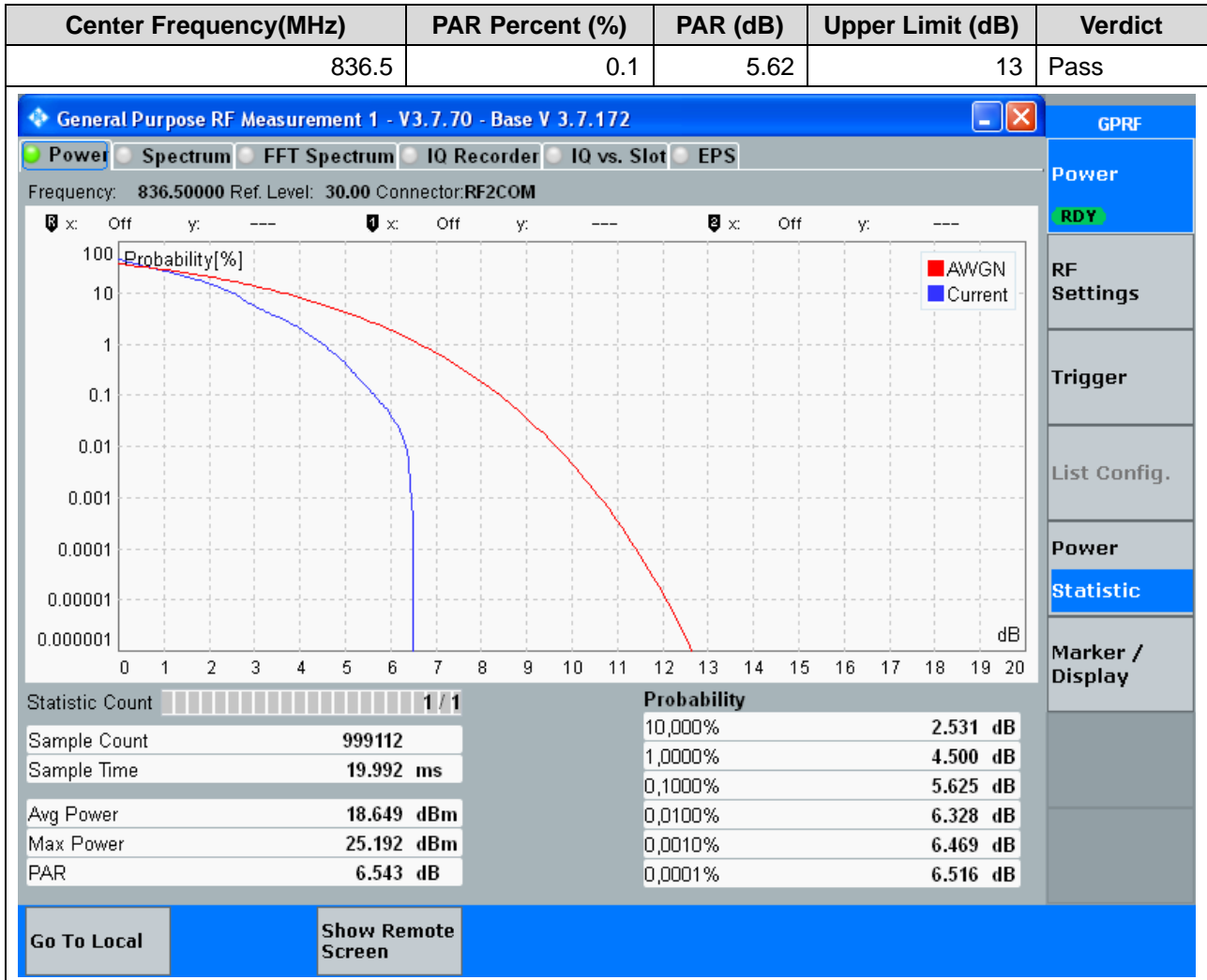
### 3.3. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:3, Channel:20450, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)



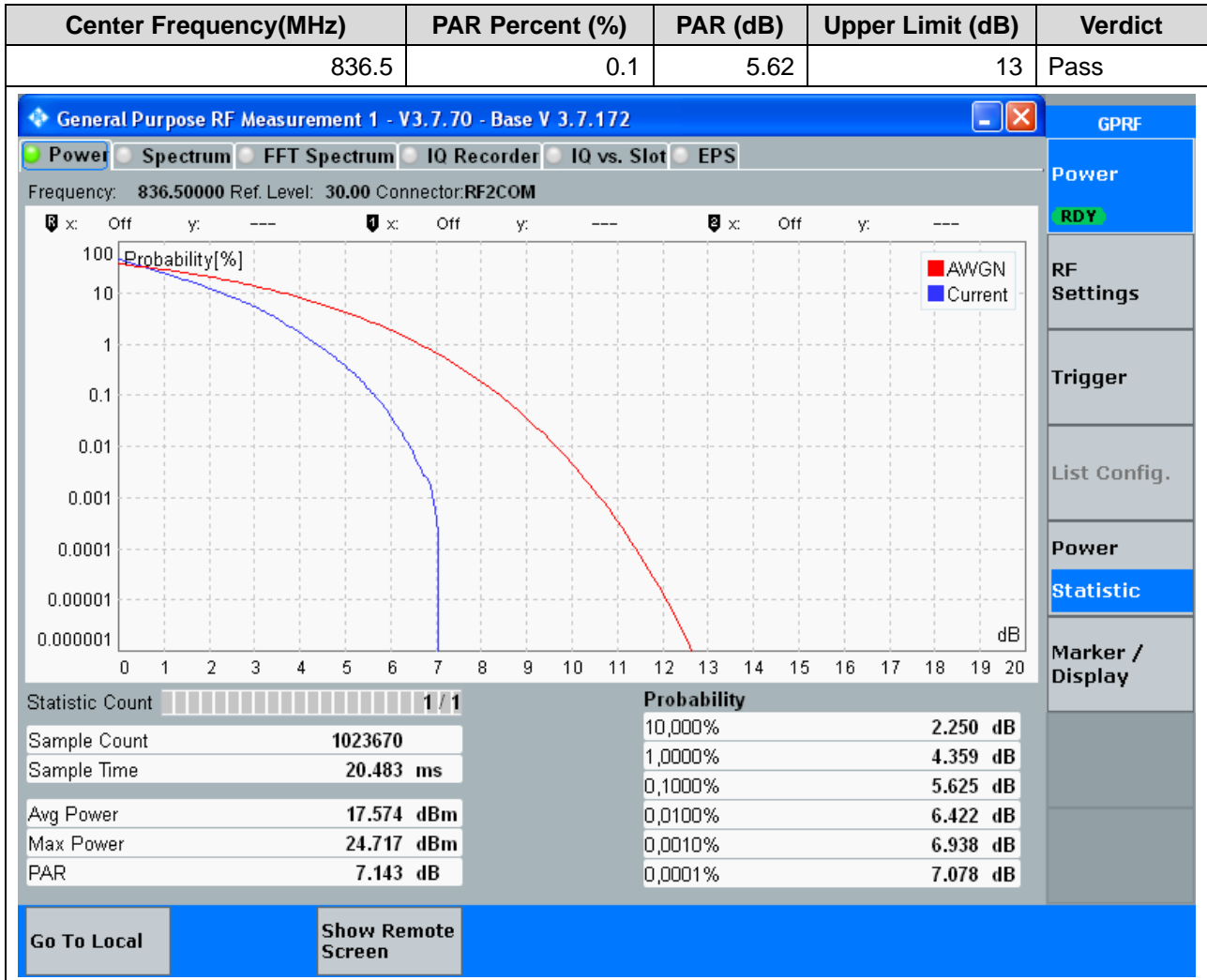
### 3.4. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:4, Channel:20450, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



### 3.5. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:5, Channel:20525, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

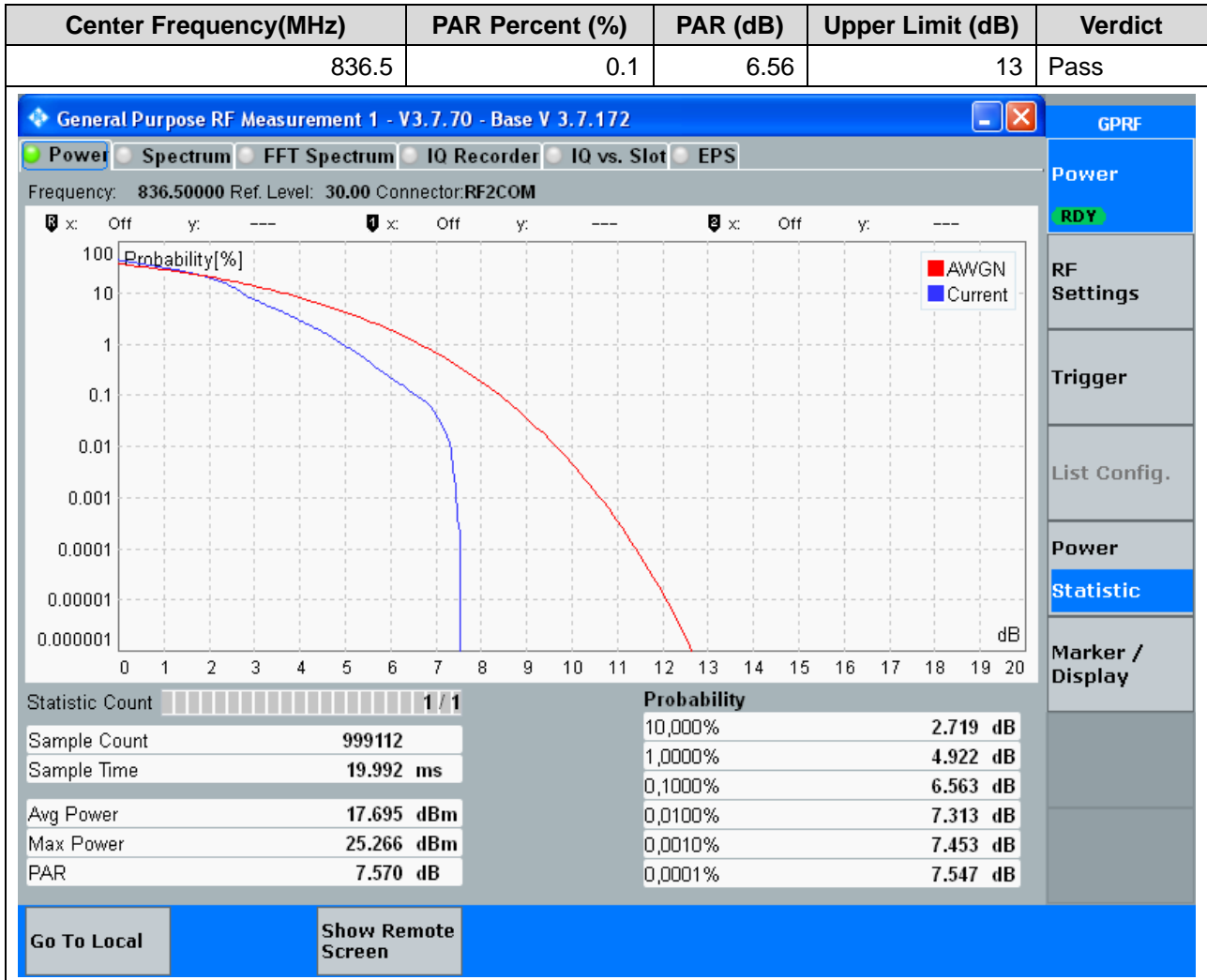


### 3.6. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:6, Channel:20525, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

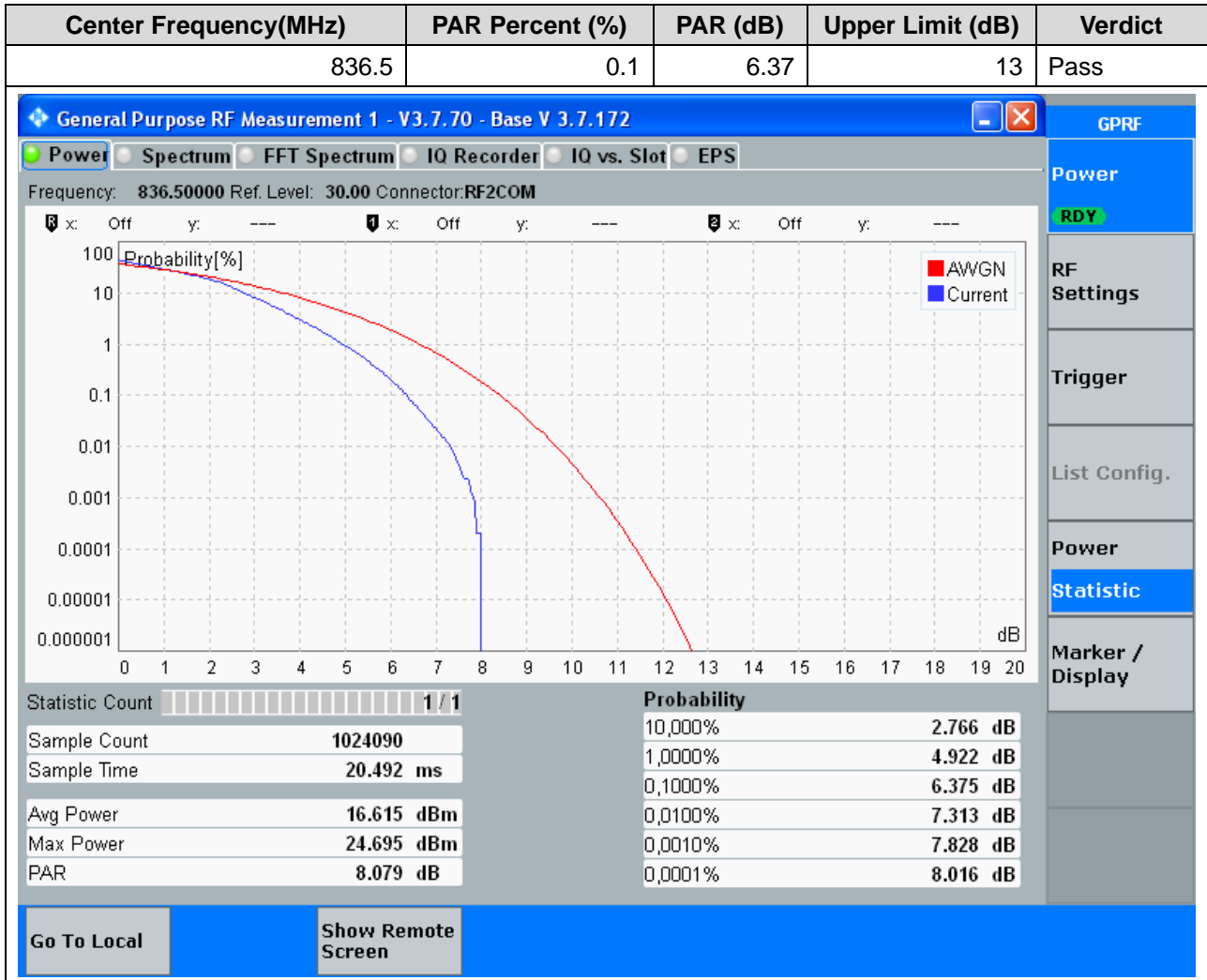




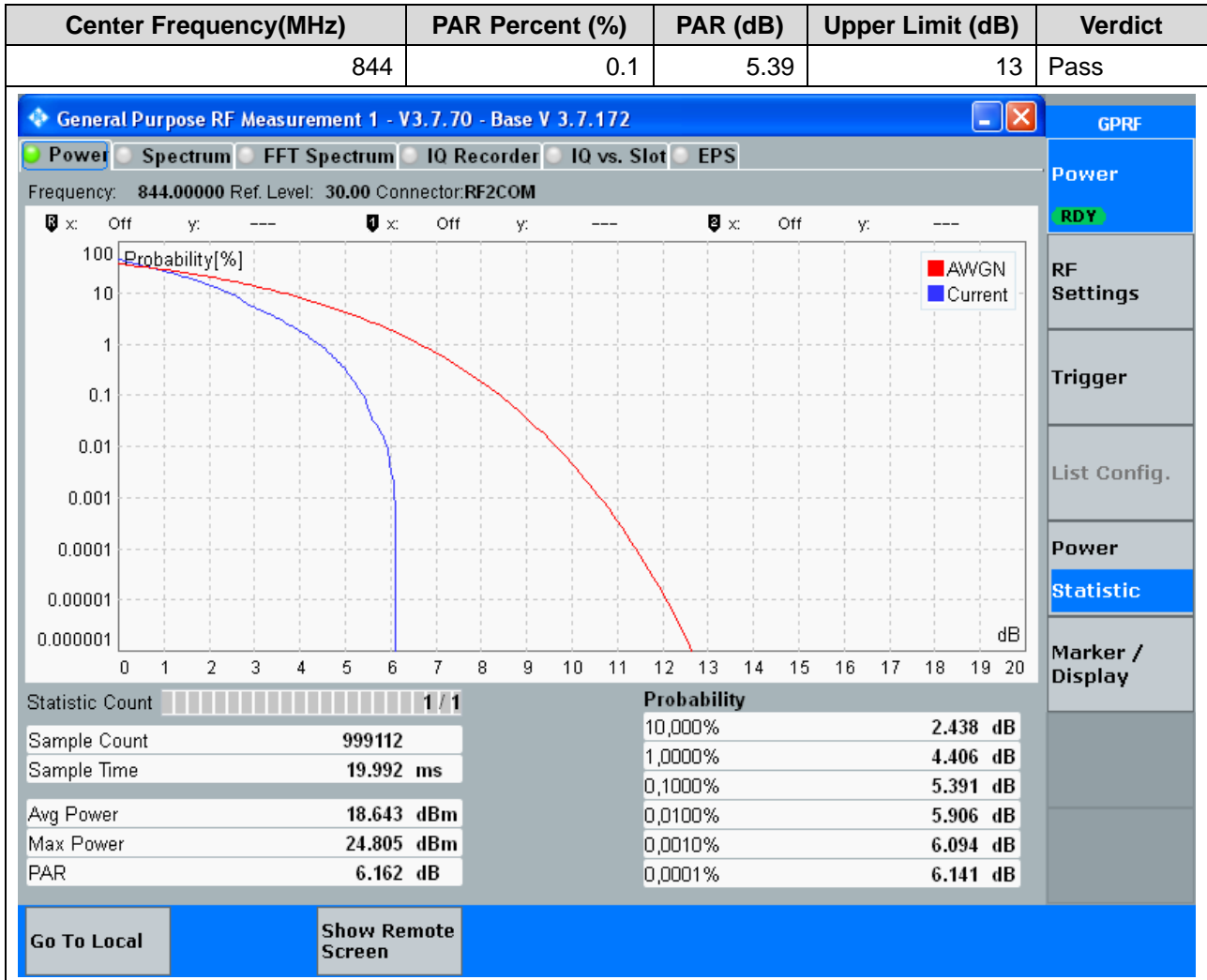
### 3.7. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:7, Channel:20525, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)



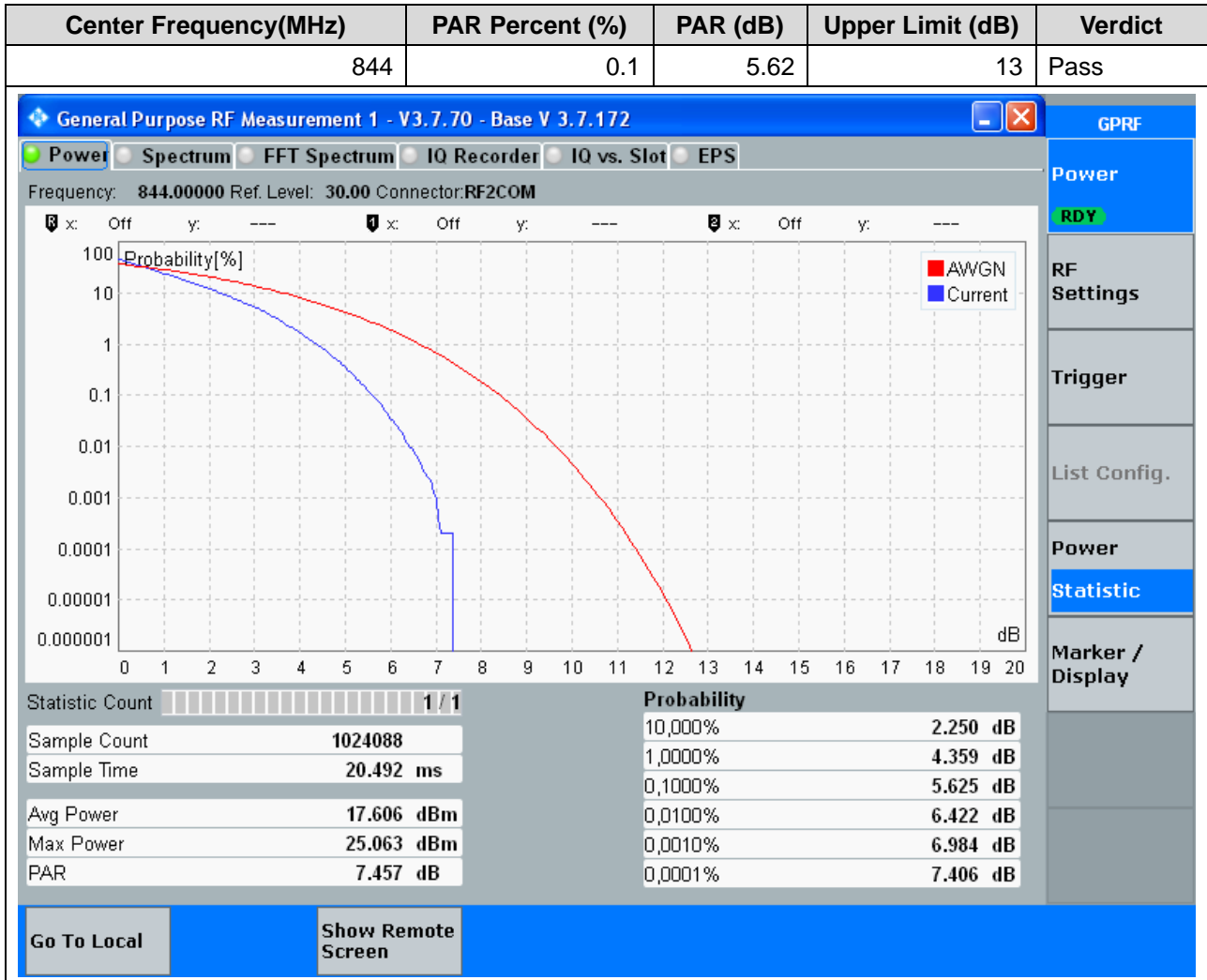
### 3.8. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:8, Channel:20525, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



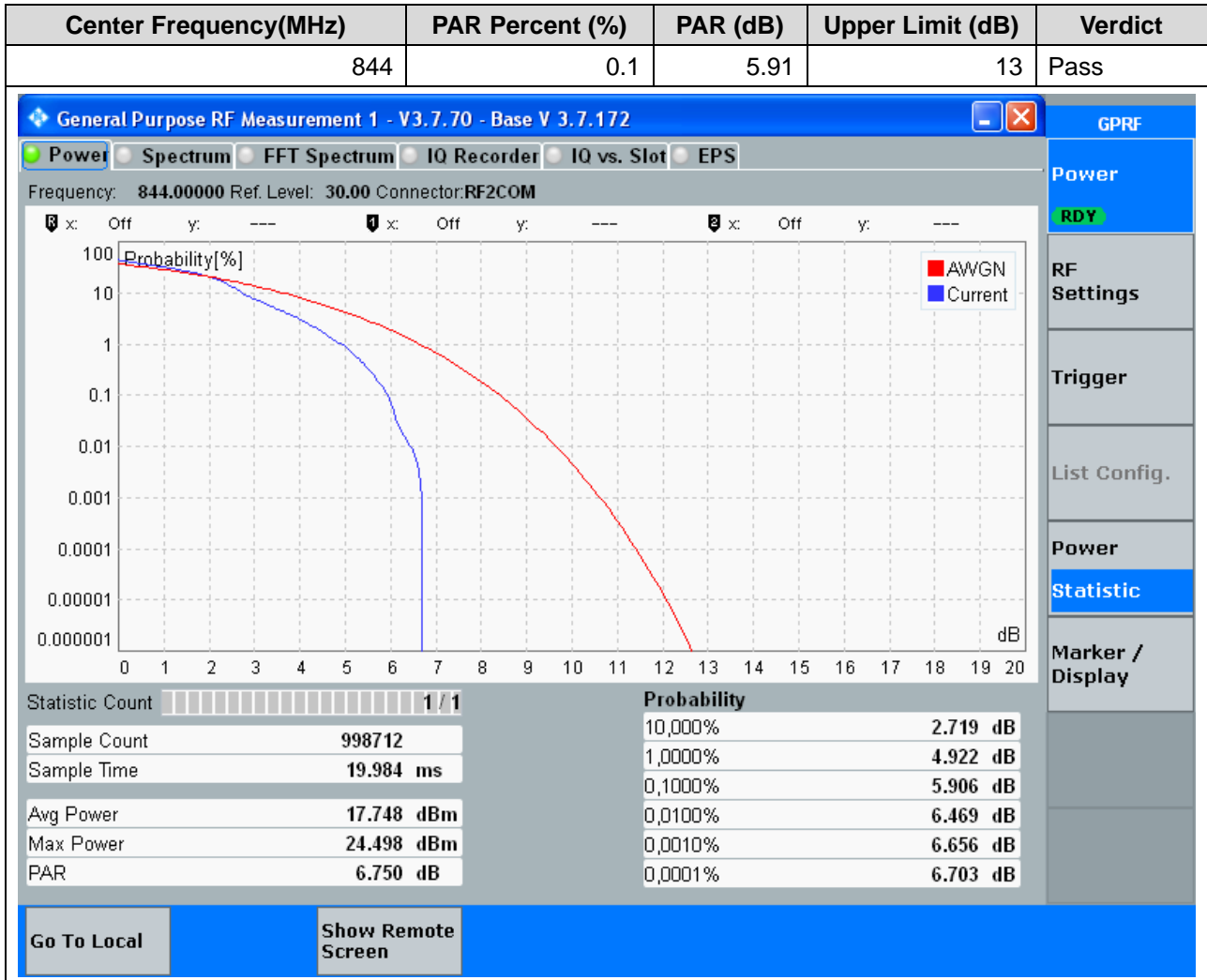
### 3.9. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:9, Channel:20600, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)



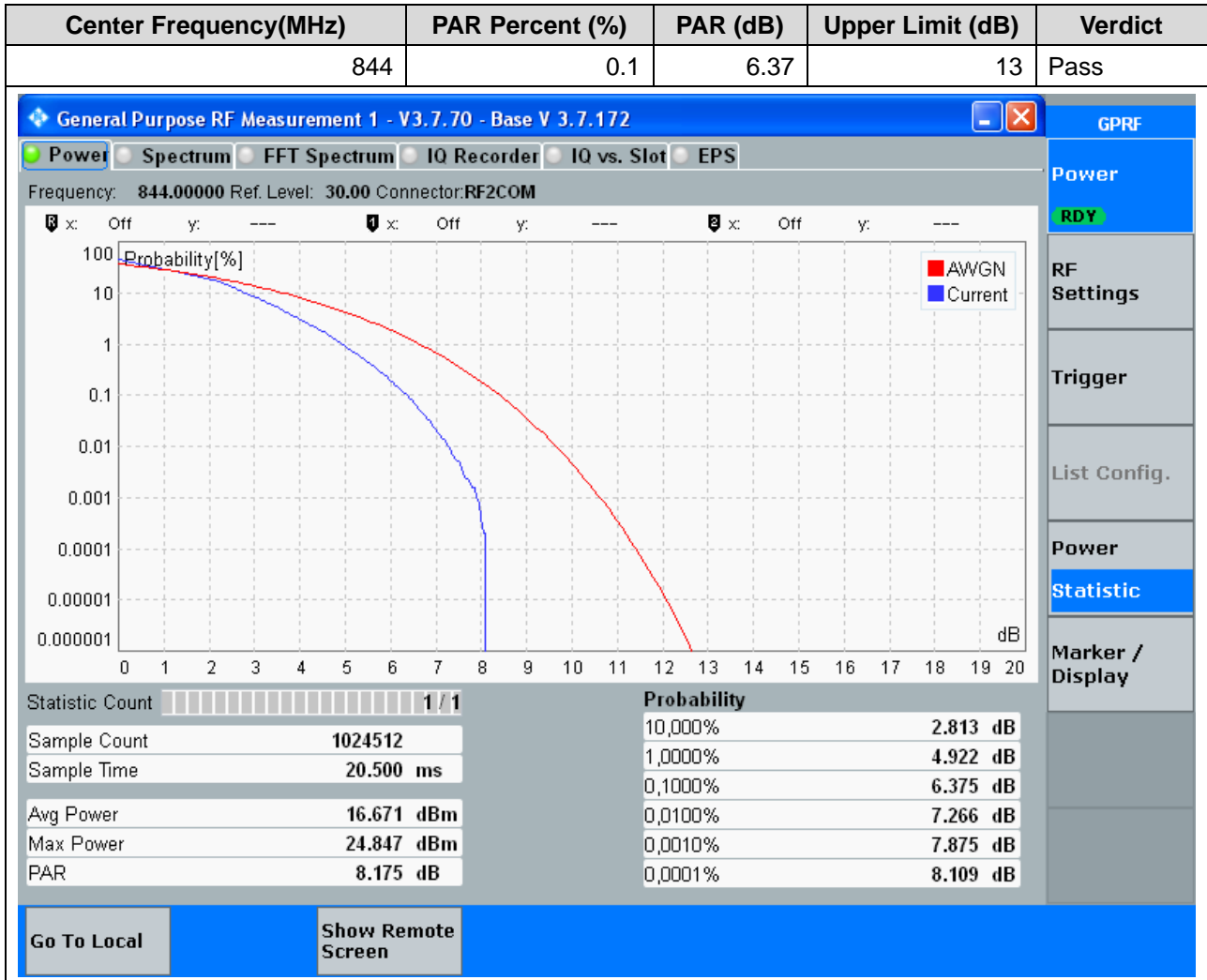
### 3.10. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:10, Channel:20600, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)



### 3.11. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:11, Channel:20600, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

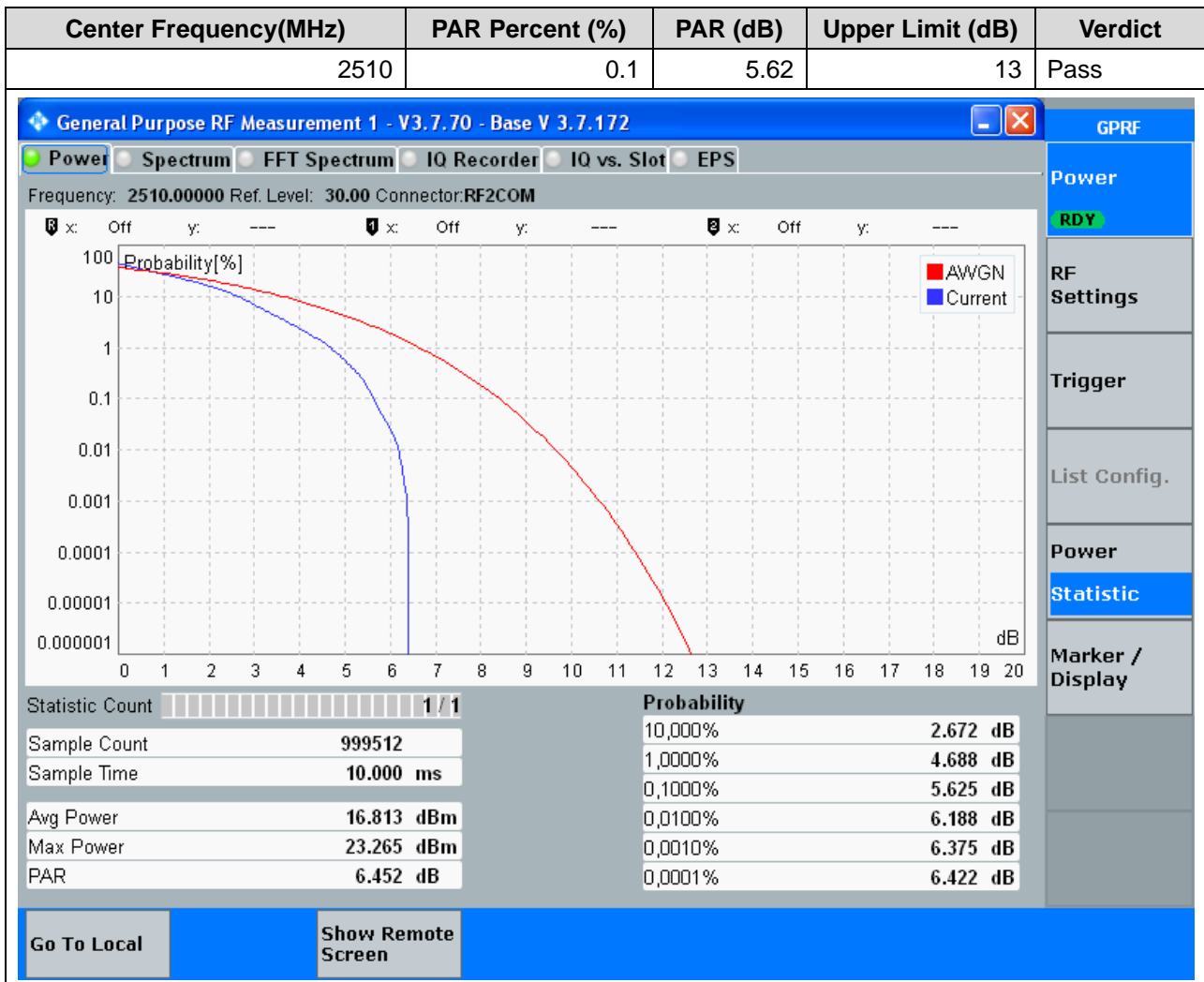


### 3.12. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:12, Channel:20600, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

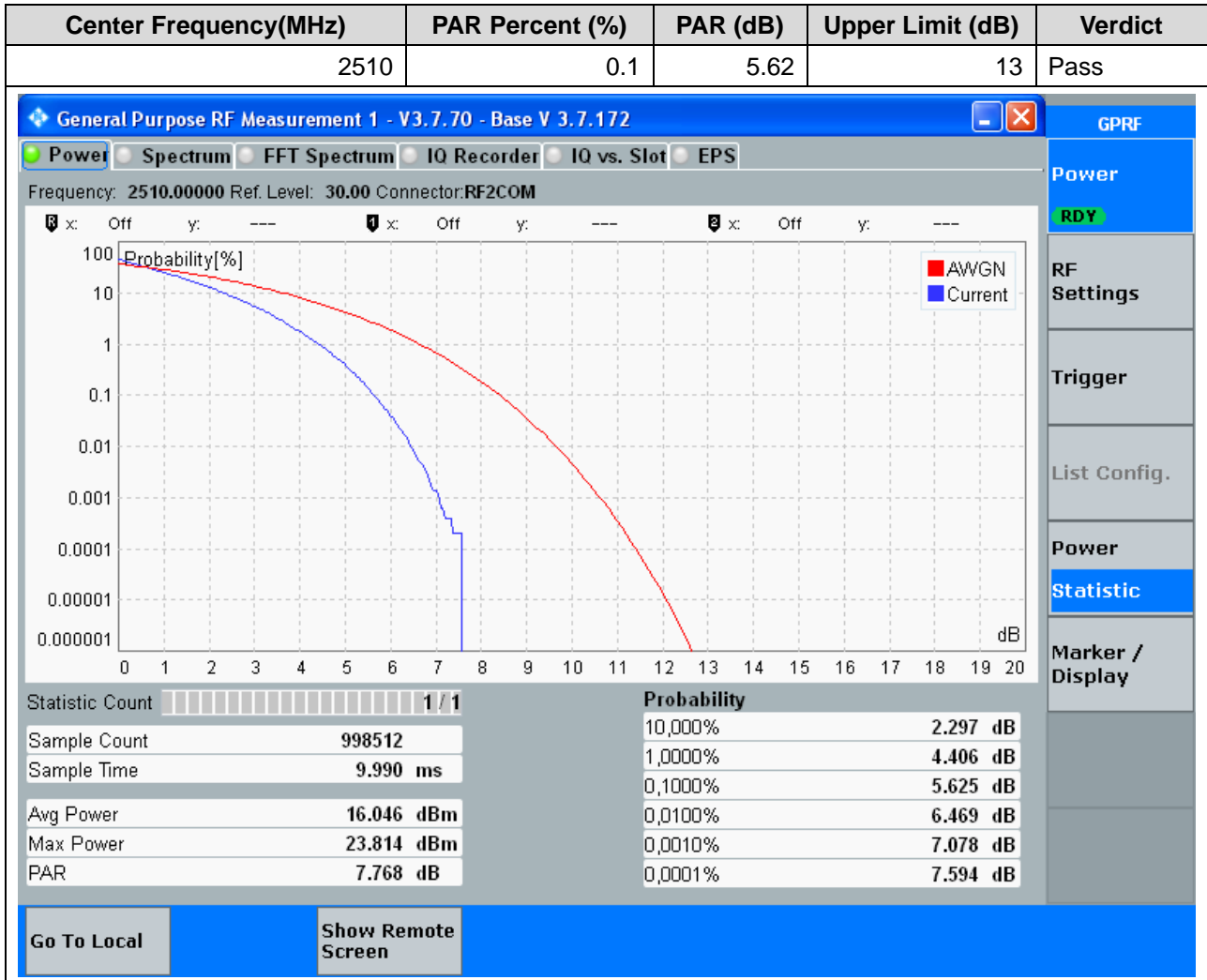


## 4. LTE\_Band7

### 4.1. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:1, Channel:20850, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

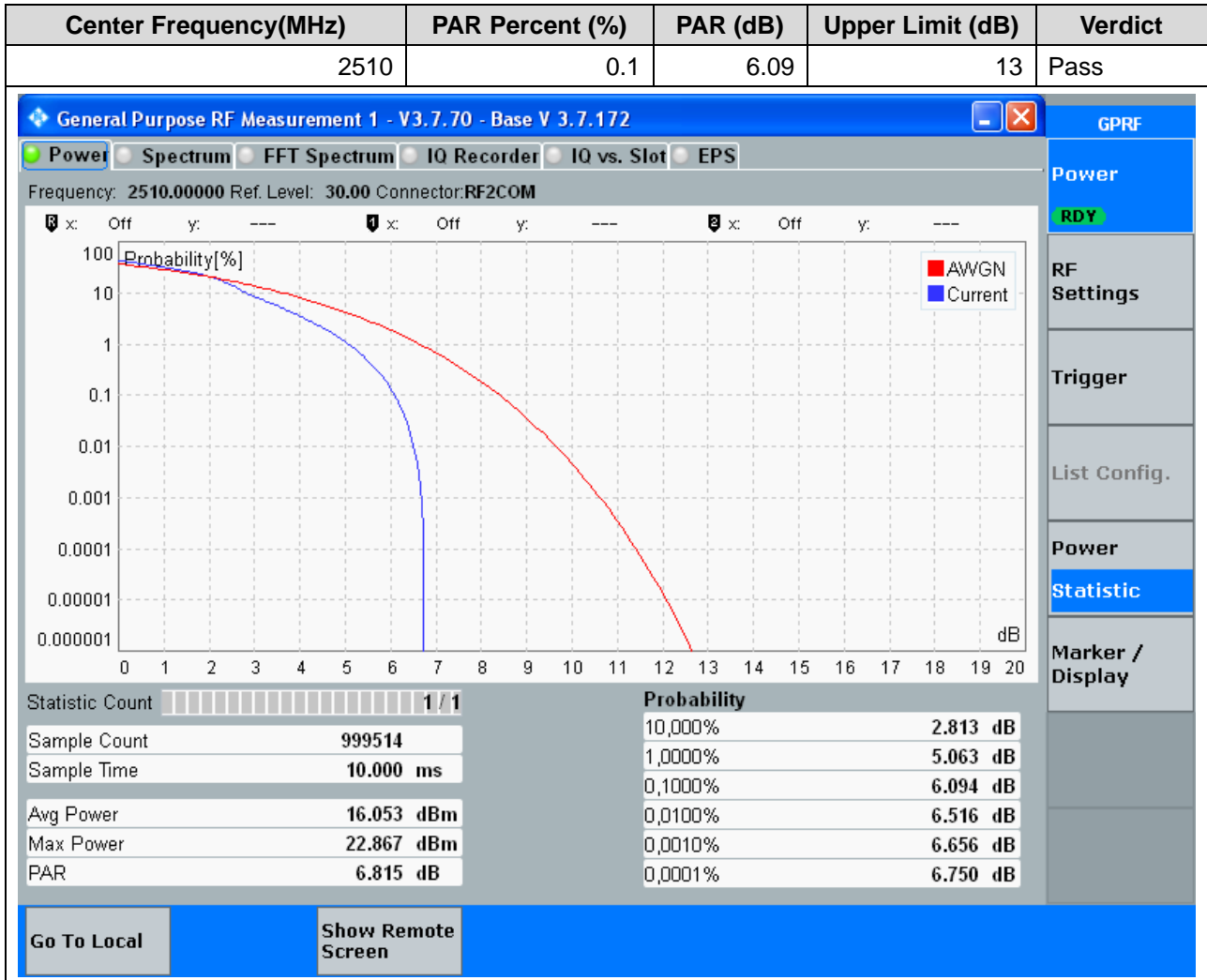


#### 4.2. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:2, Channel:20850, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

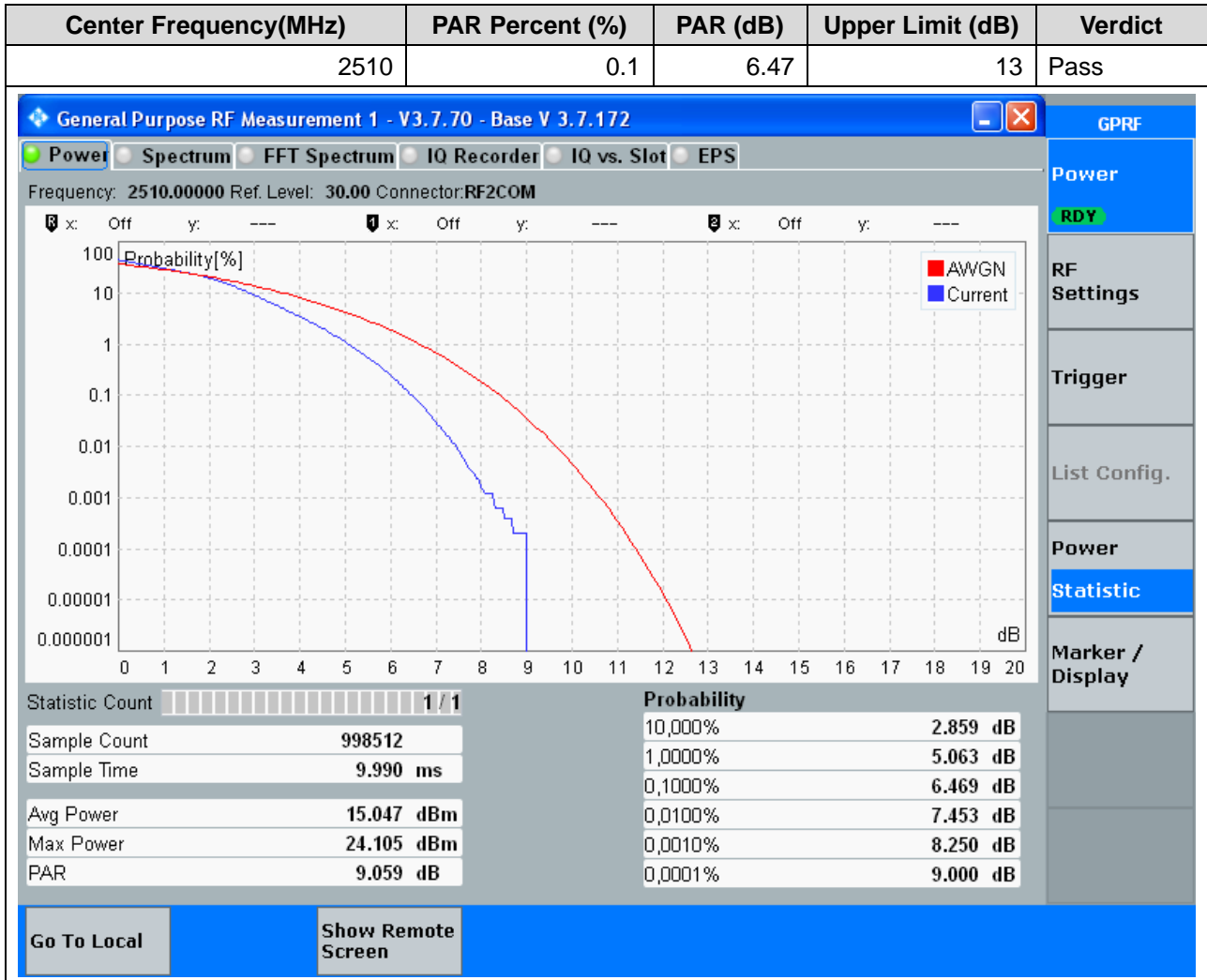




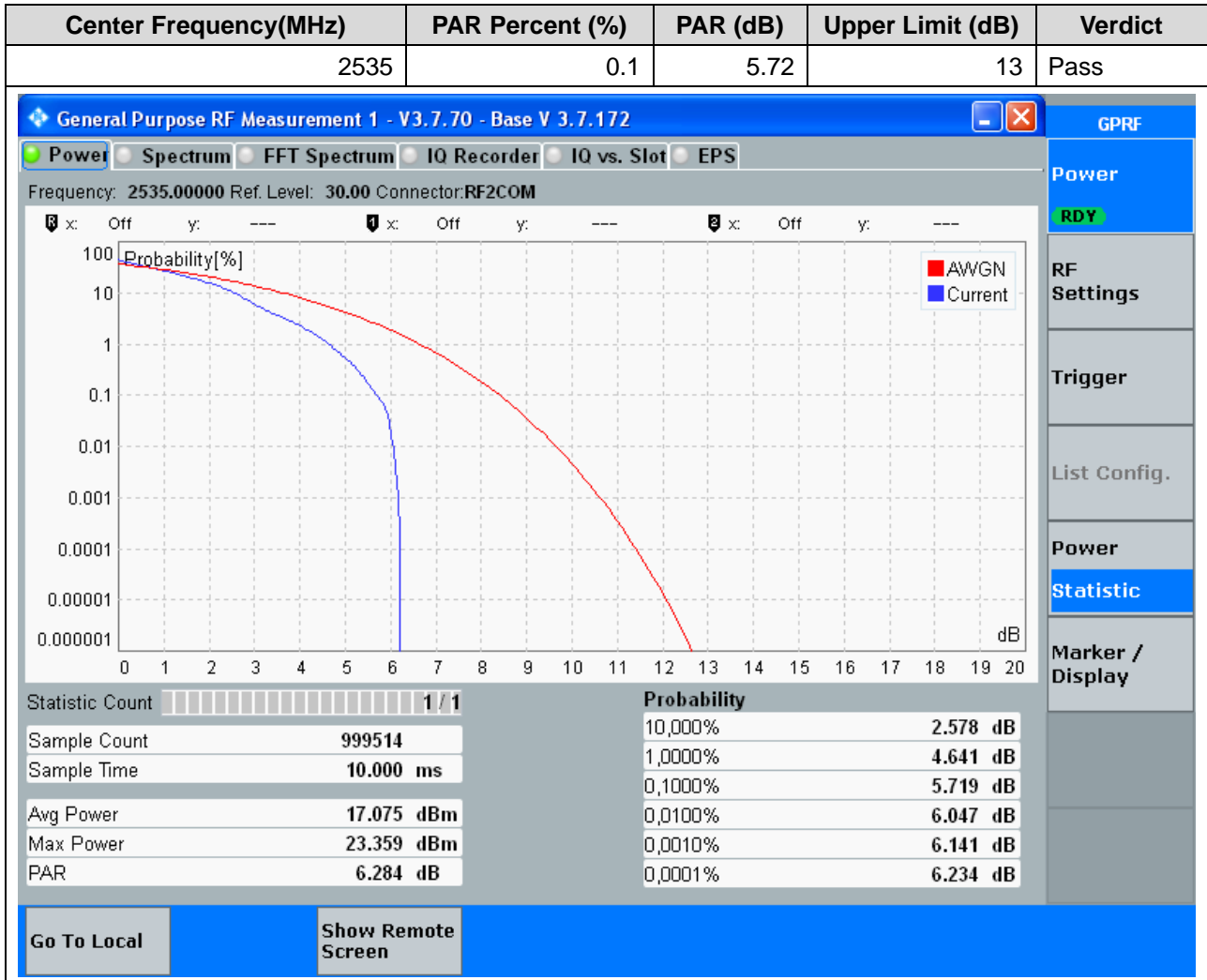
### 4.3. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:3, Channel:20850, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



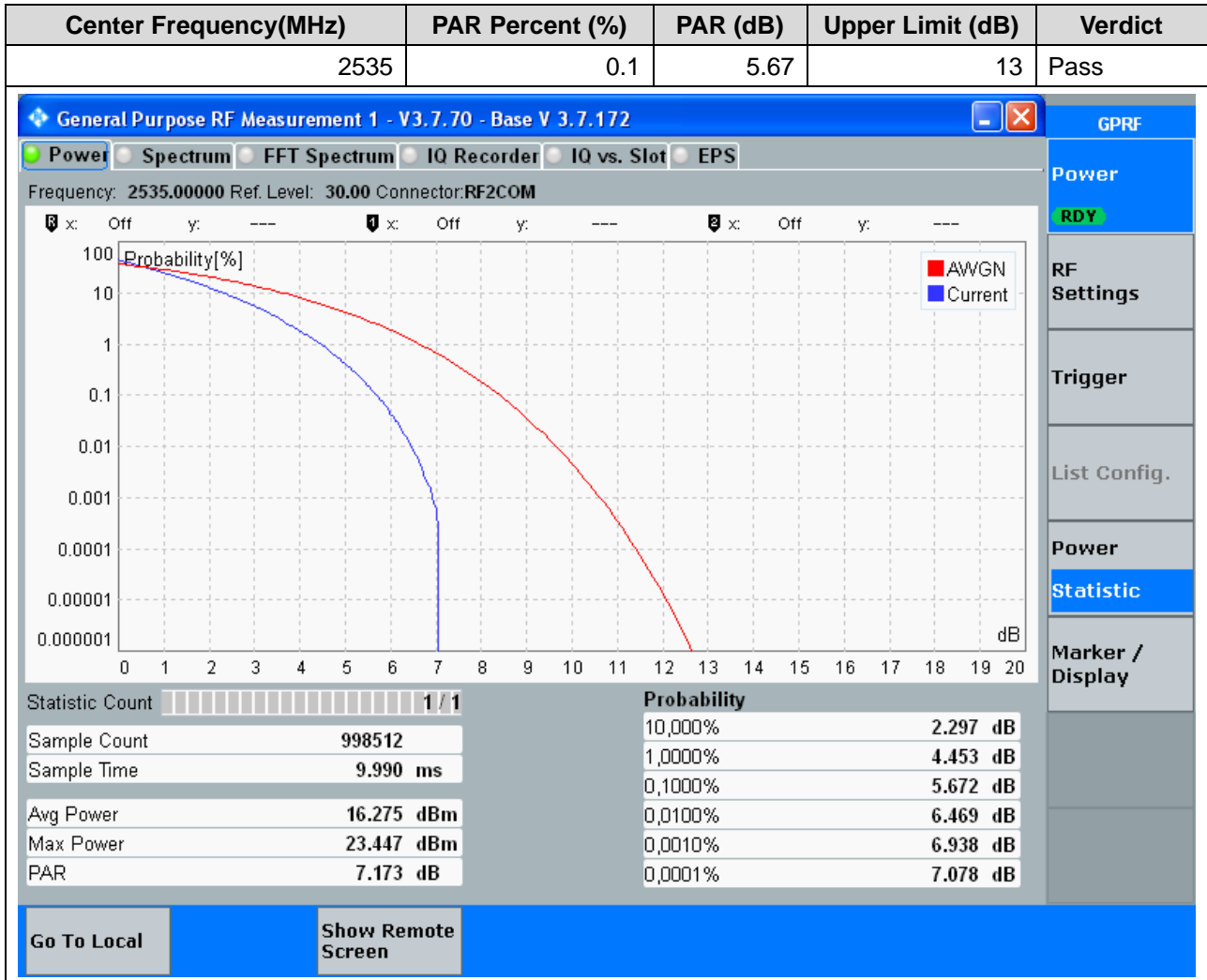
#### 4.4. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:4, Channel:20850, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



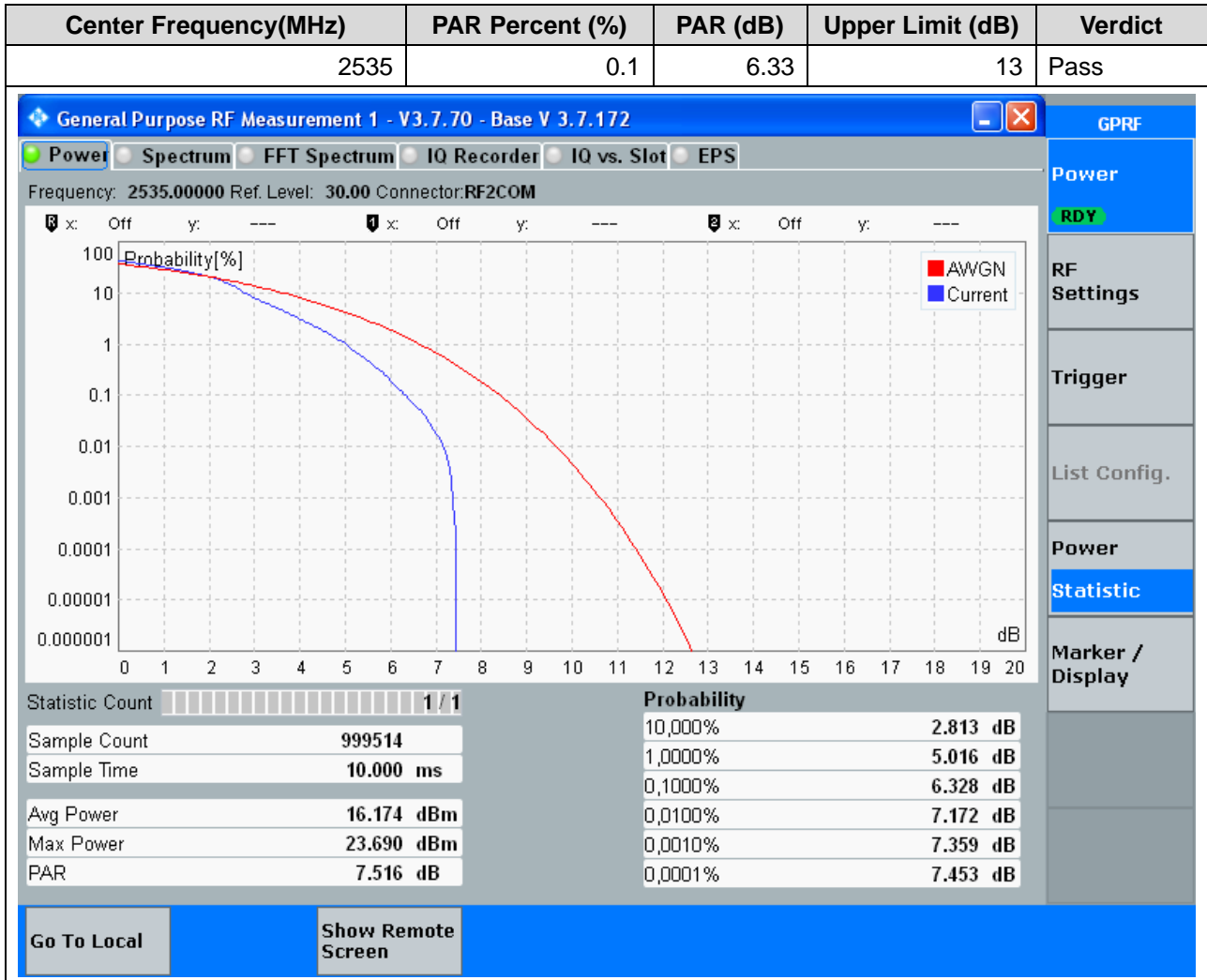
**4.5. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:5, Channel:21100, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)**



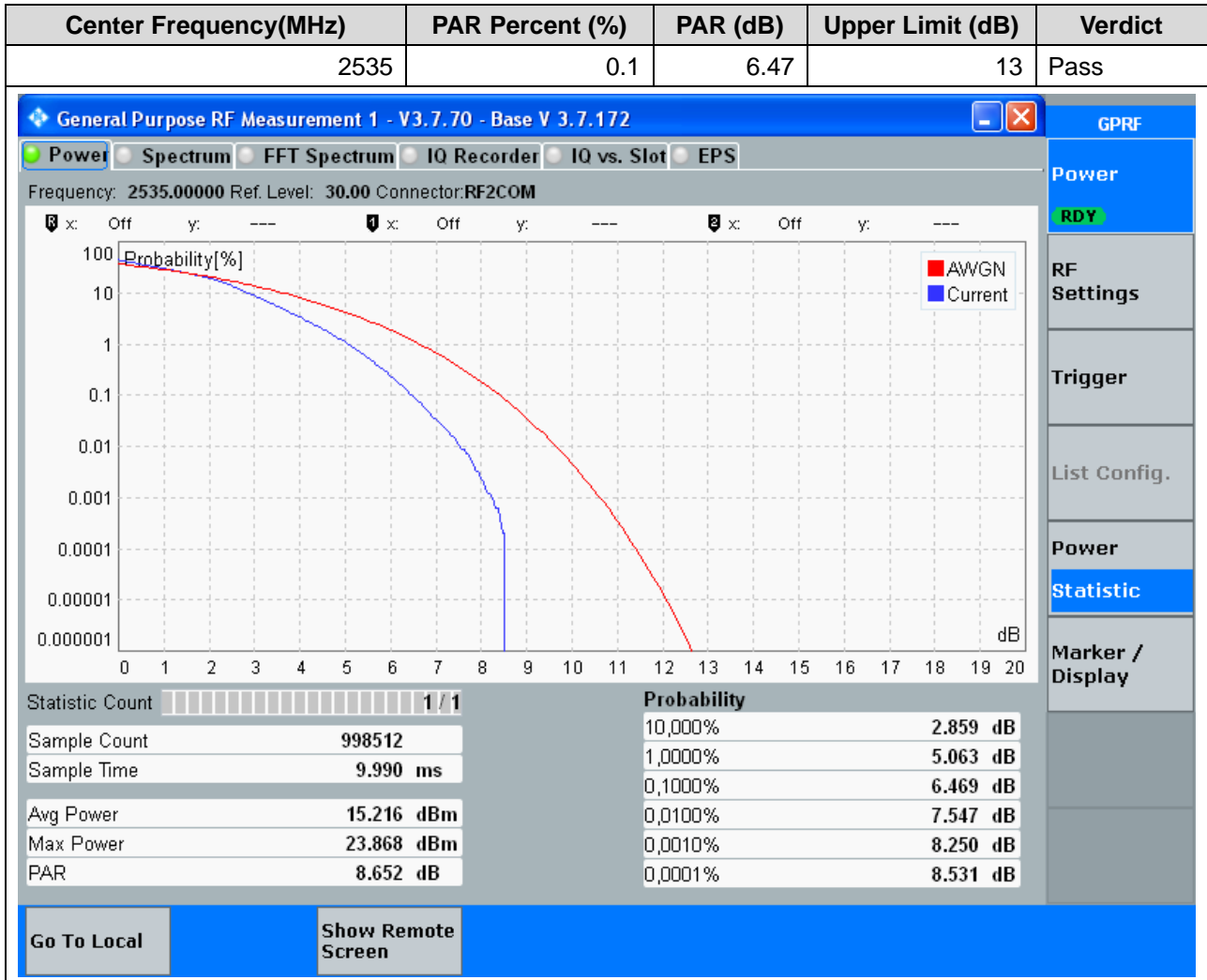
**4.6. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:6, Channel:21100, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



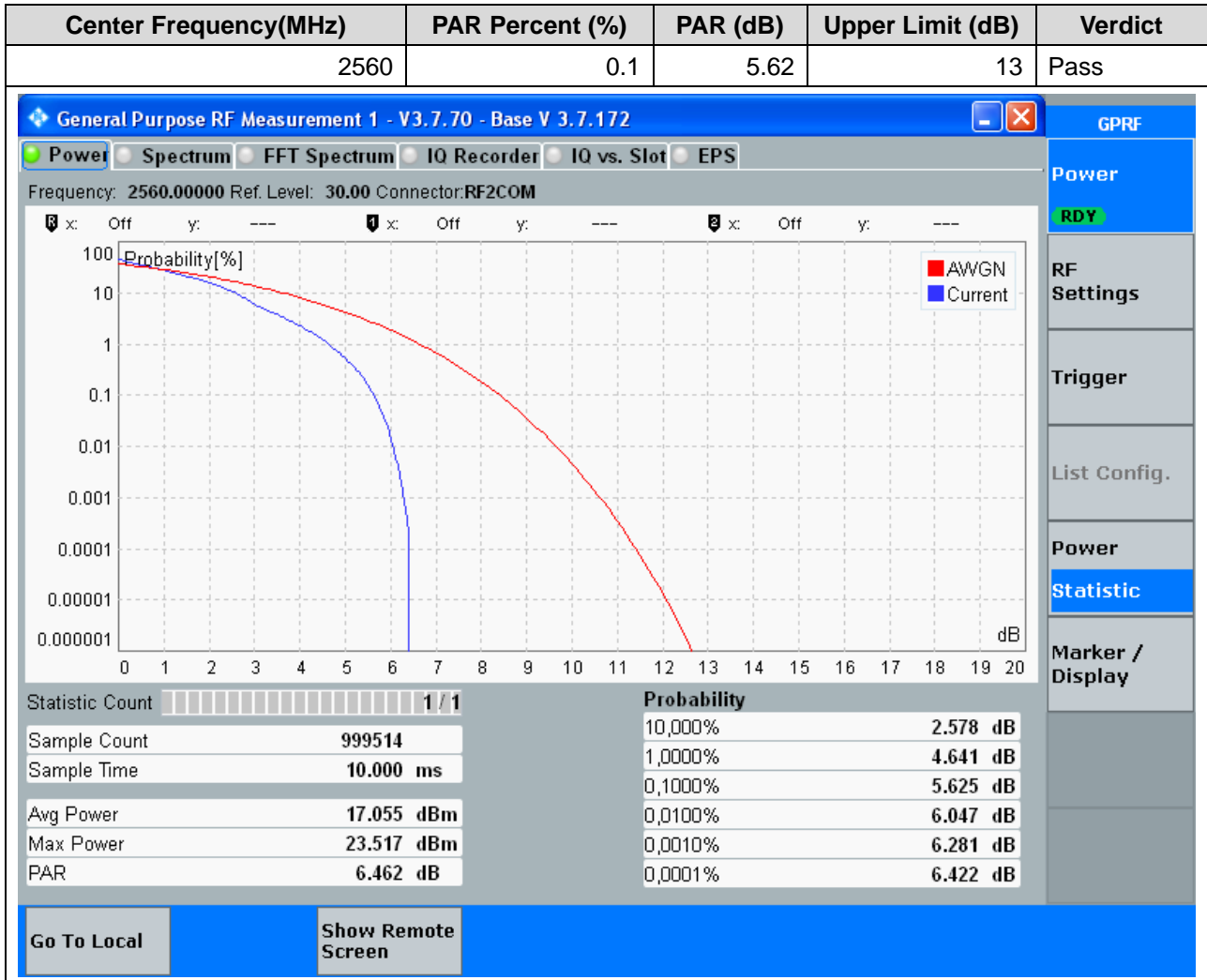
**4.7. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:7, Channel:21100, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)**



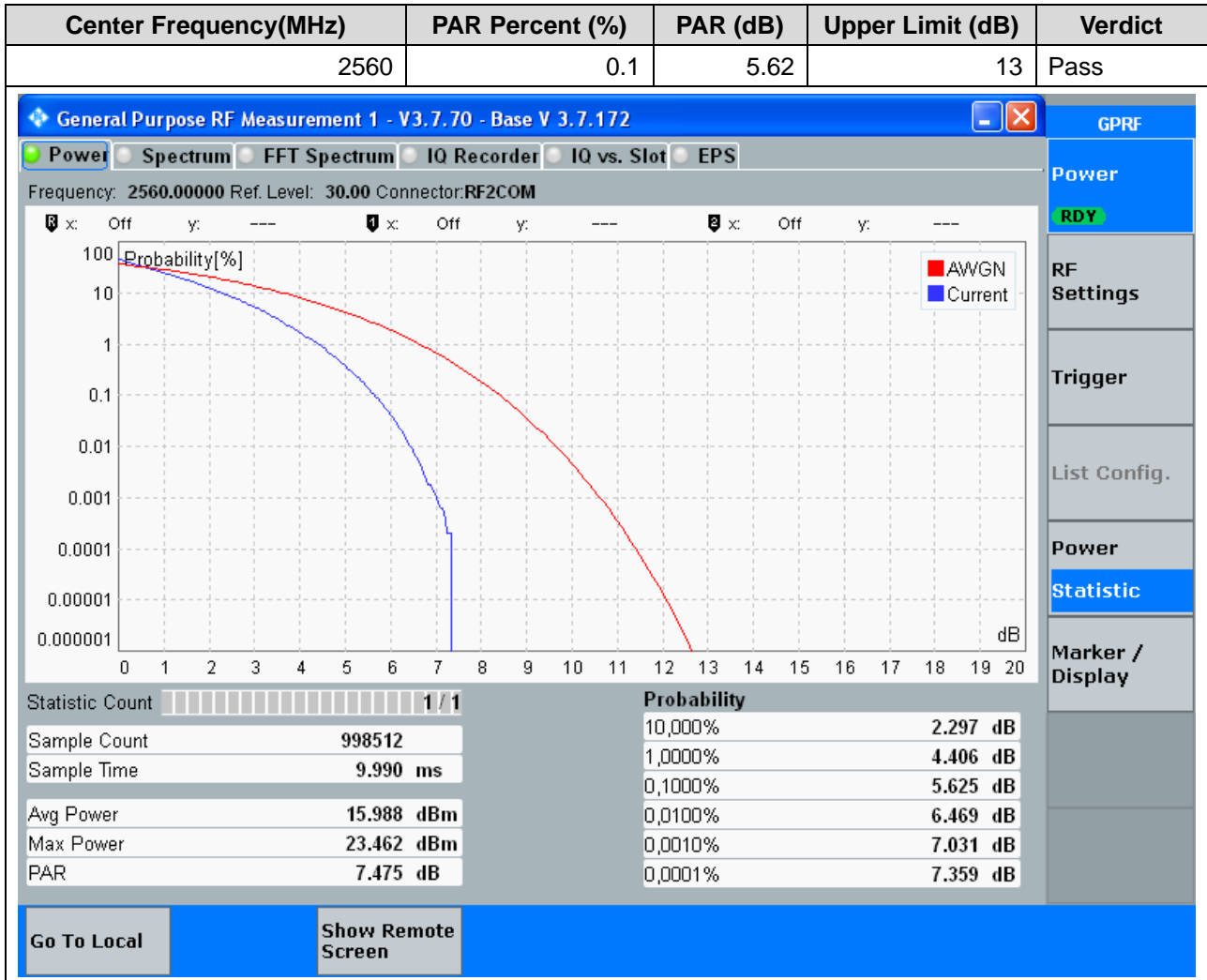
**4.8. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:8, Channel:21100, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



#### 4.9. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:9, Channel:21350, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

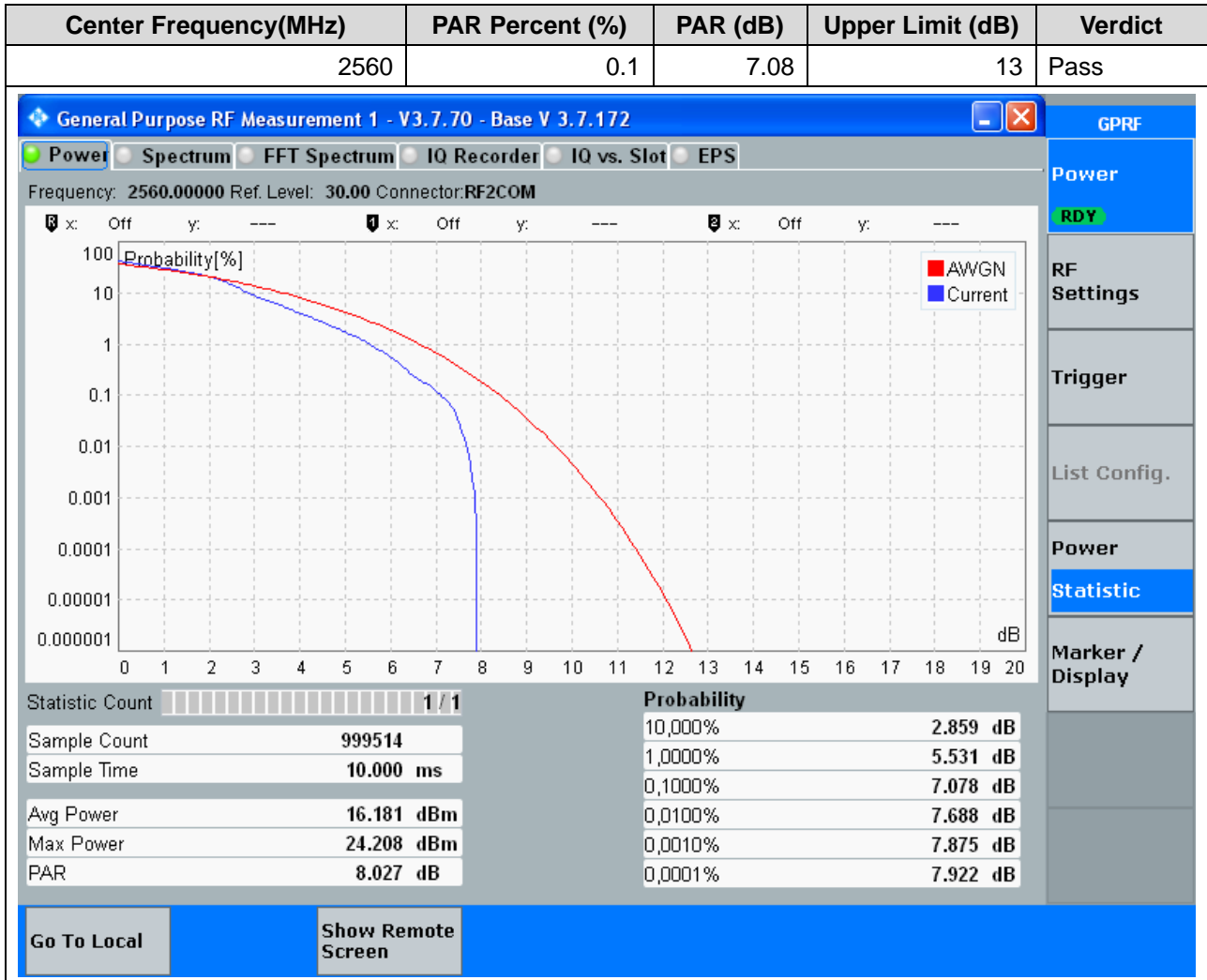


**4.10. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:10, Channel:21350, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

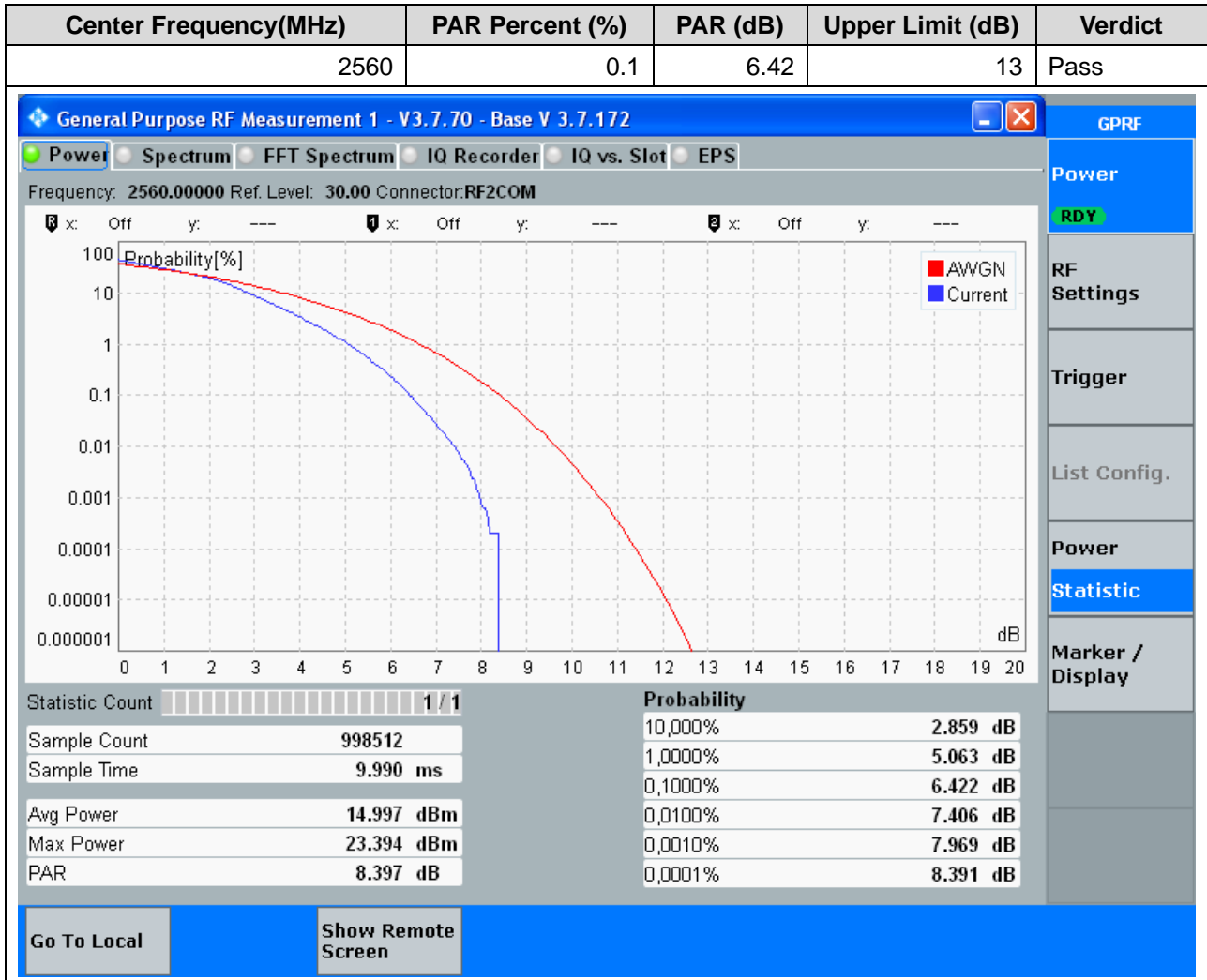




**4.11. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:11, Channel:21350, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)**

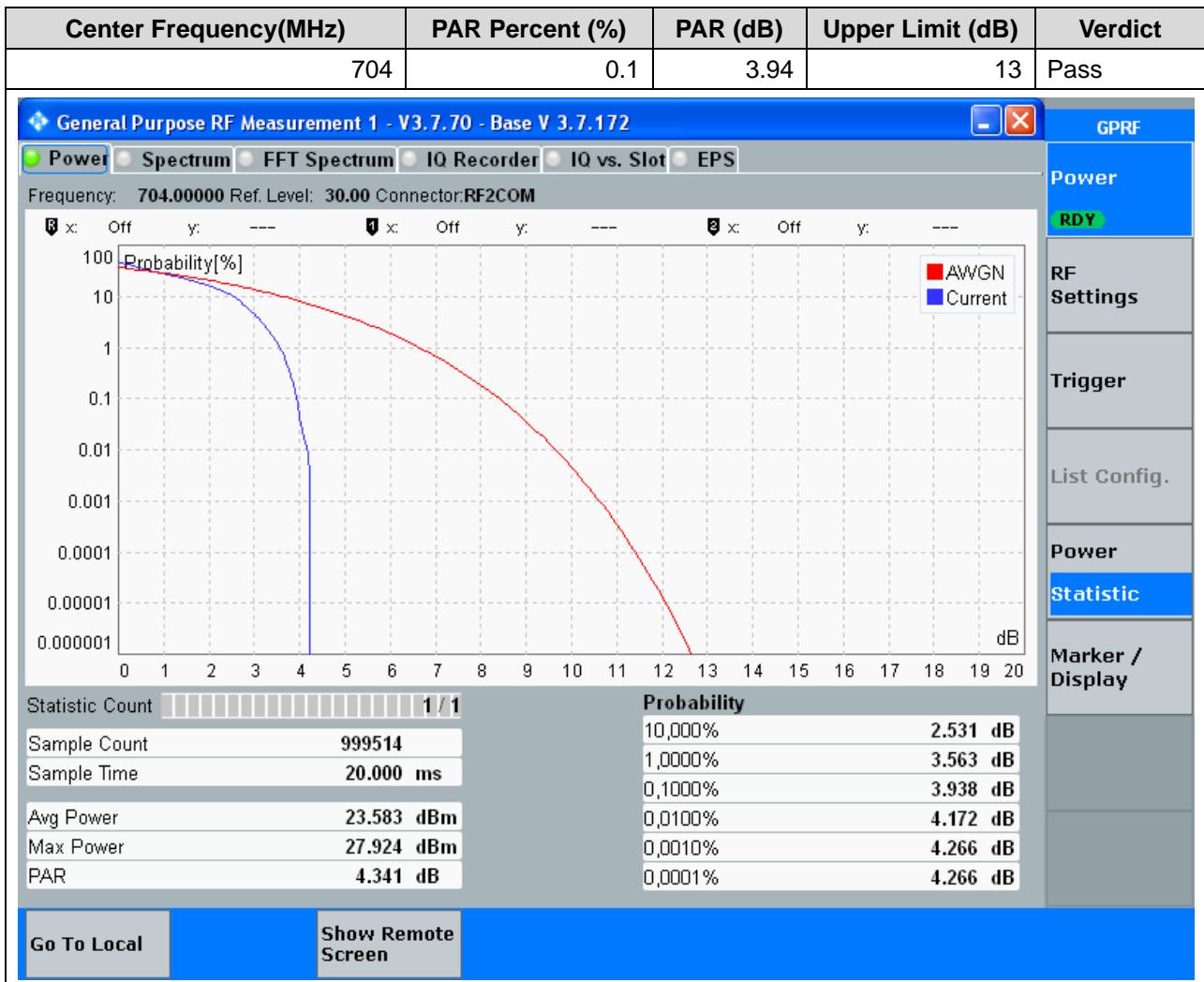


**4.12. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:12, Channel:21350, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

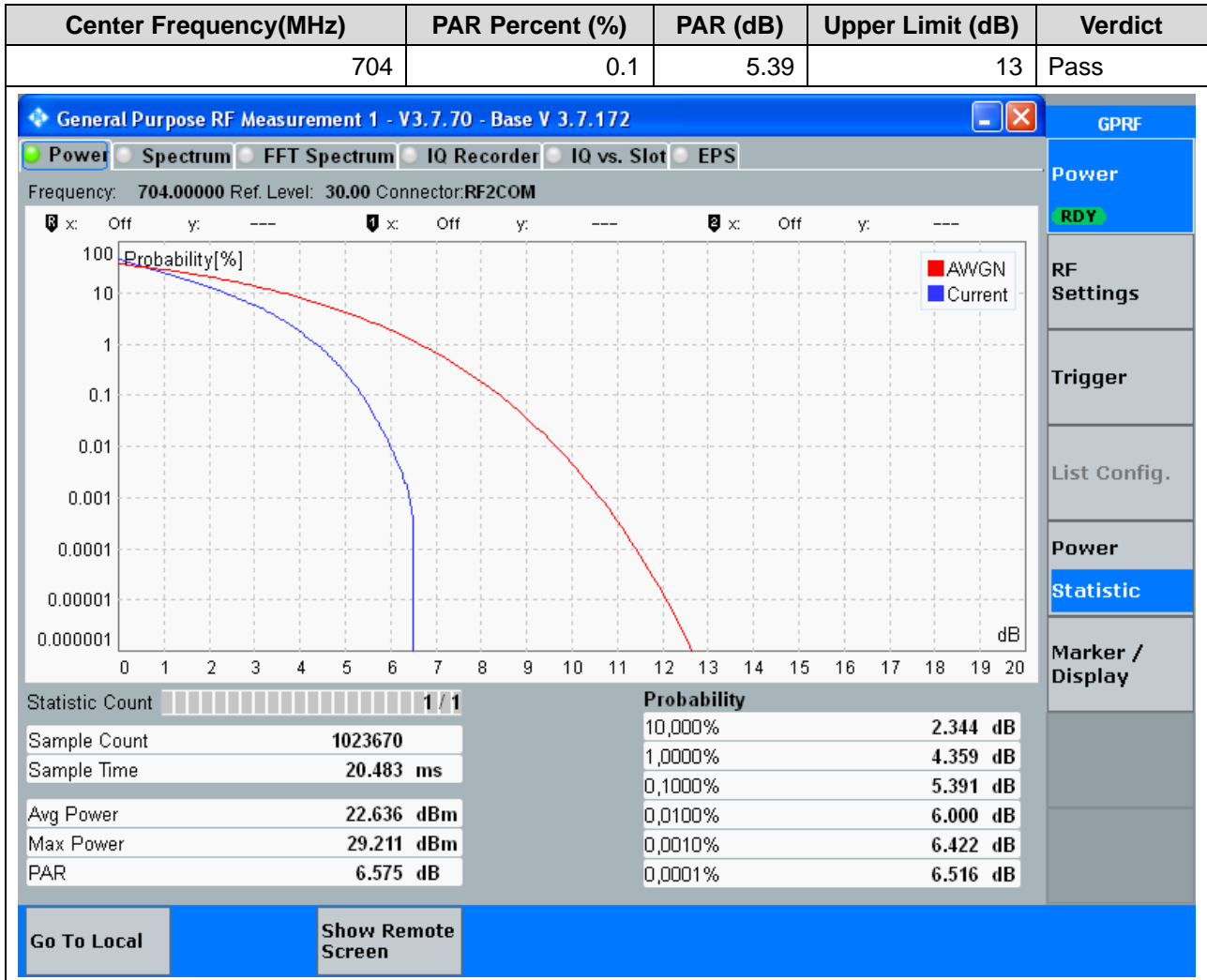


## 5. LTE\_Band12

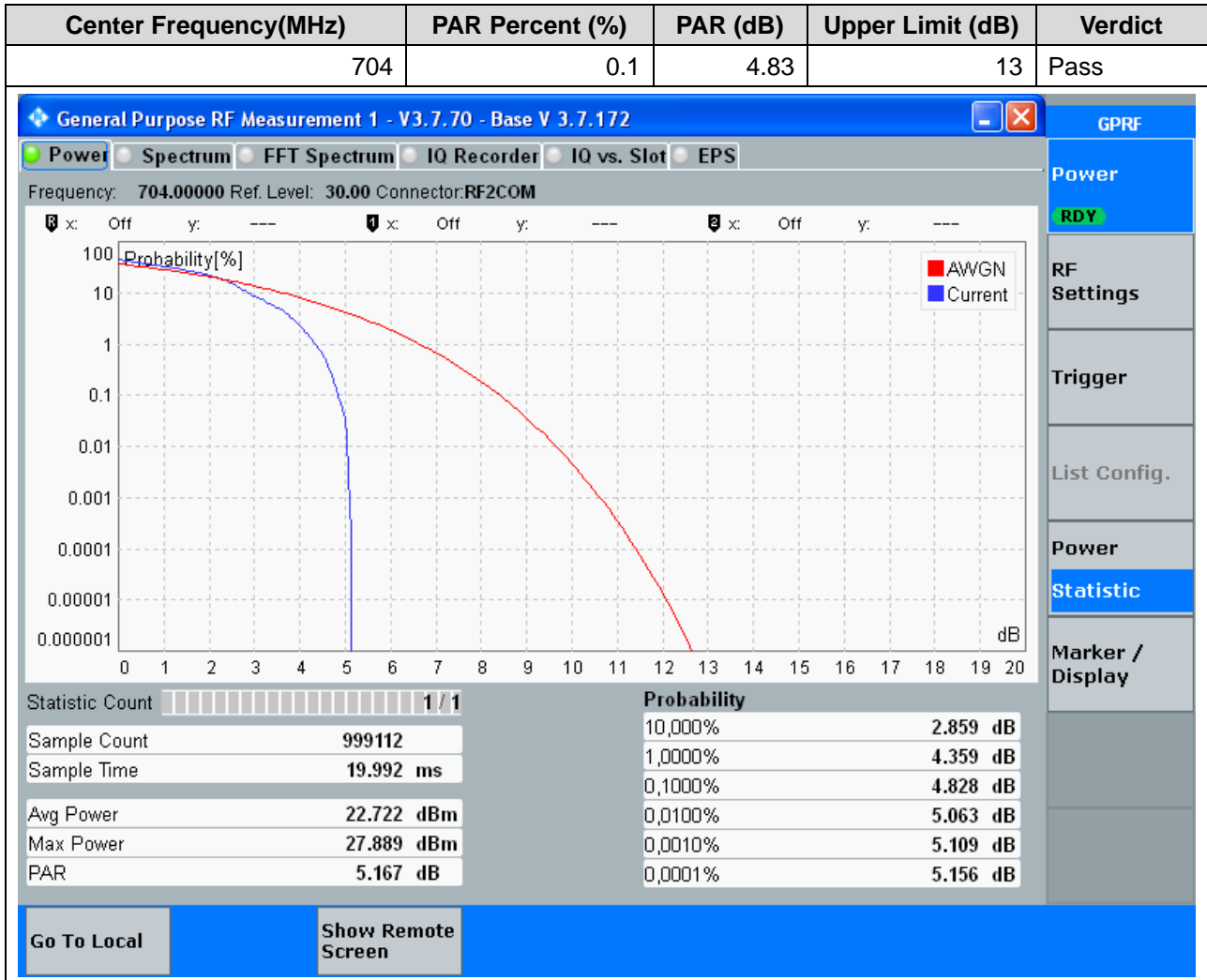
### 5.1. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:1, Channel:23060, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)



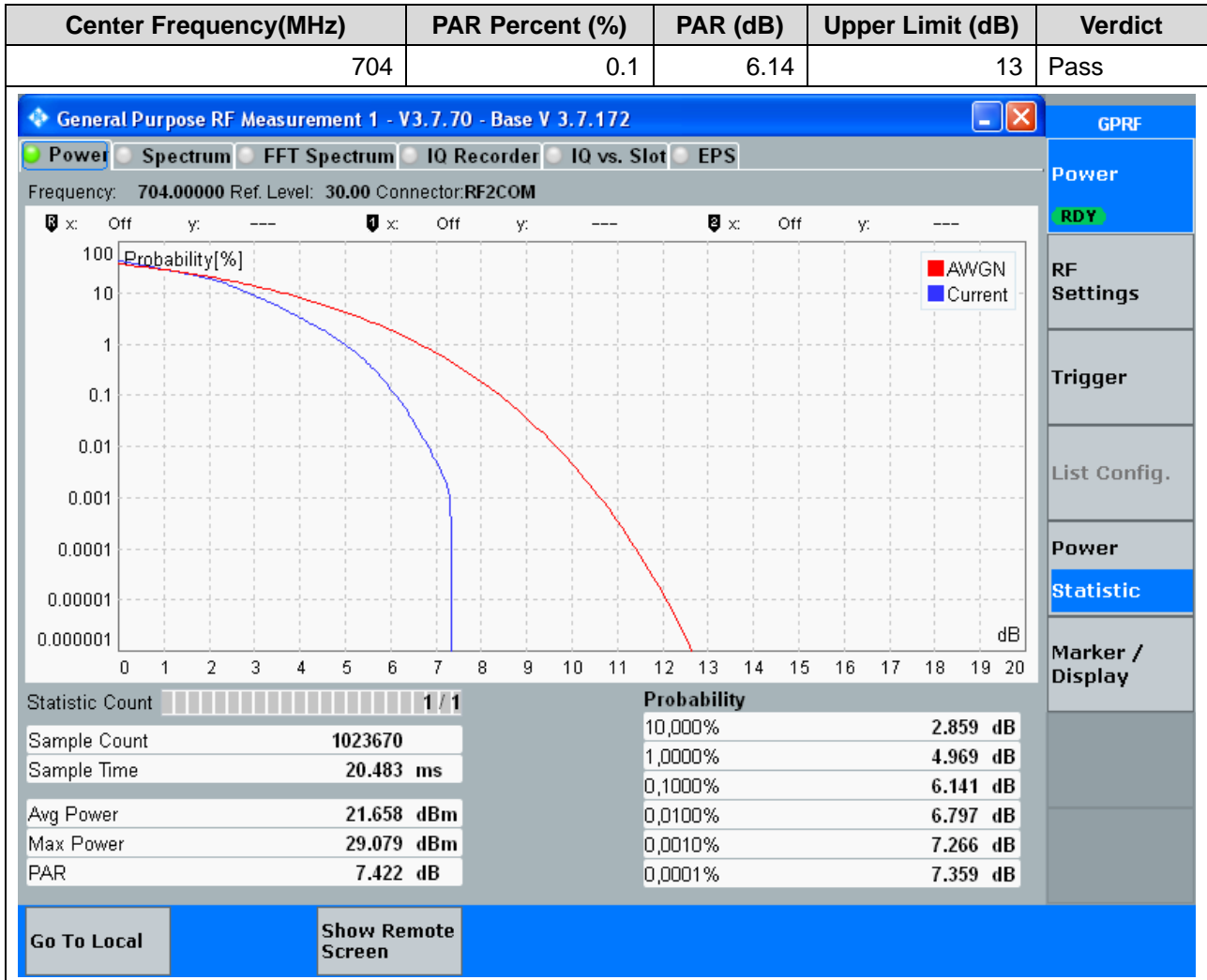
**5.2. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:2, Channel:23060, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



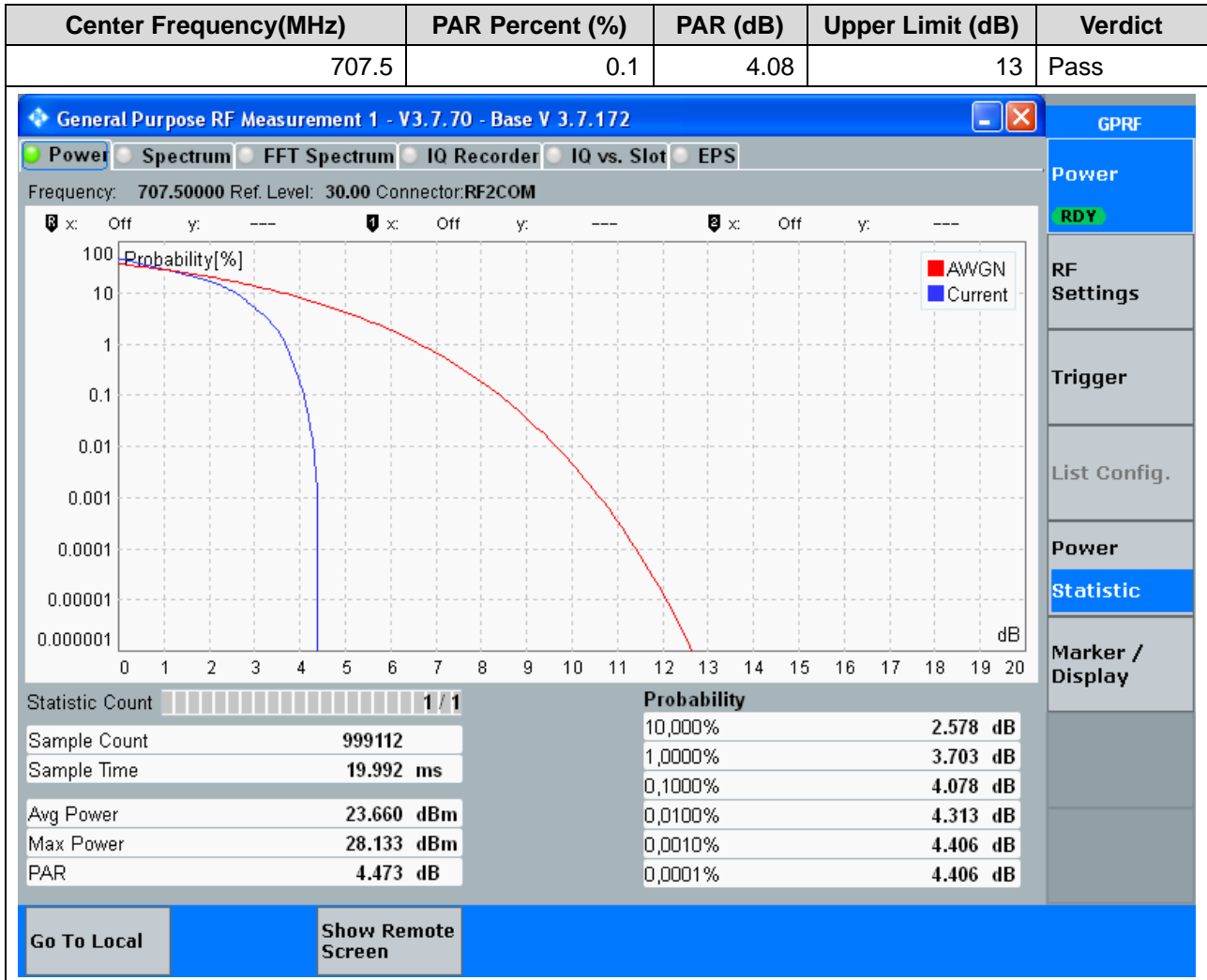
### 5.3. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:3, Channel:23060, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)



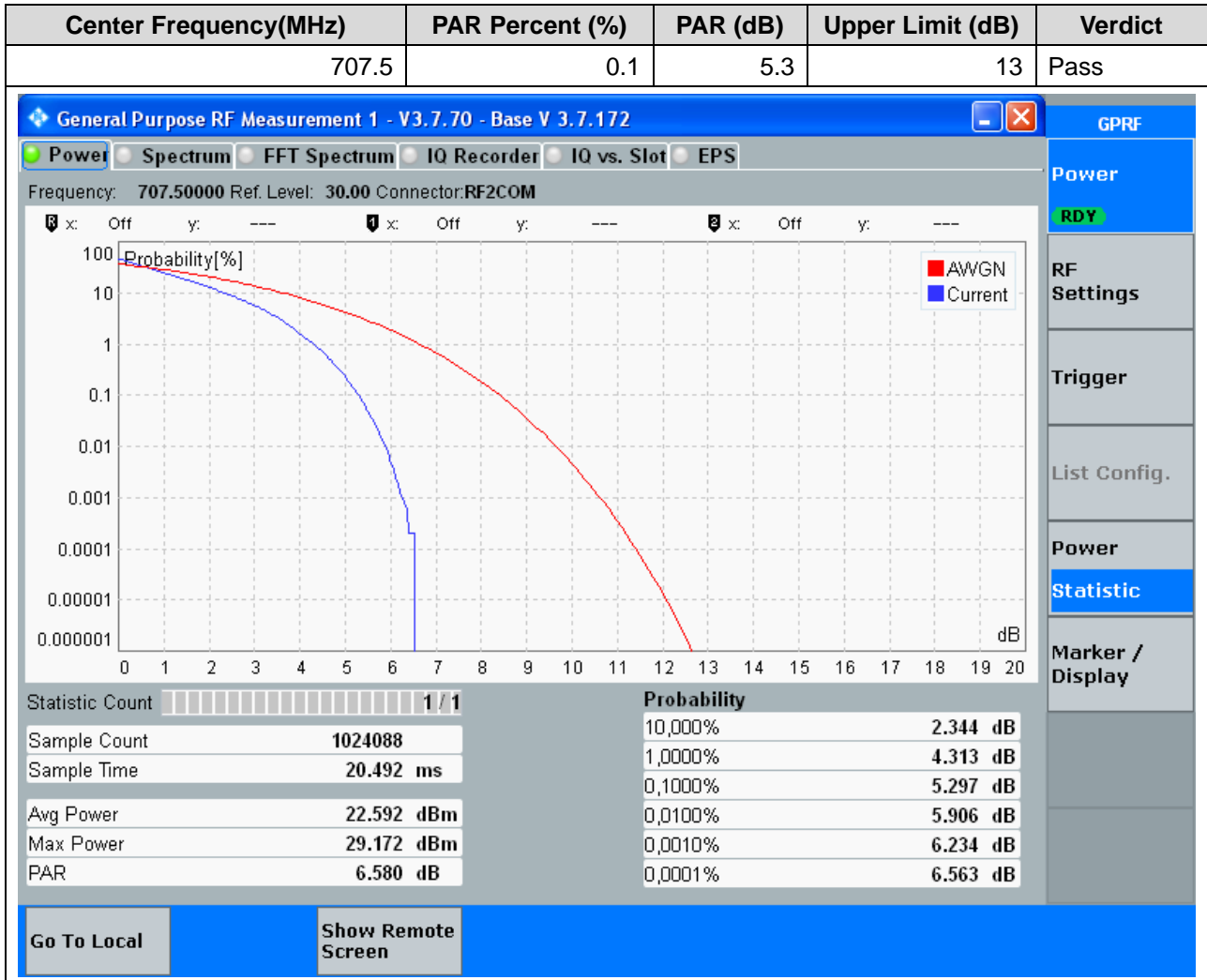
**5.4. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:4, Channel:23060, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



**5.5. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:5, Channel:23095, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)**

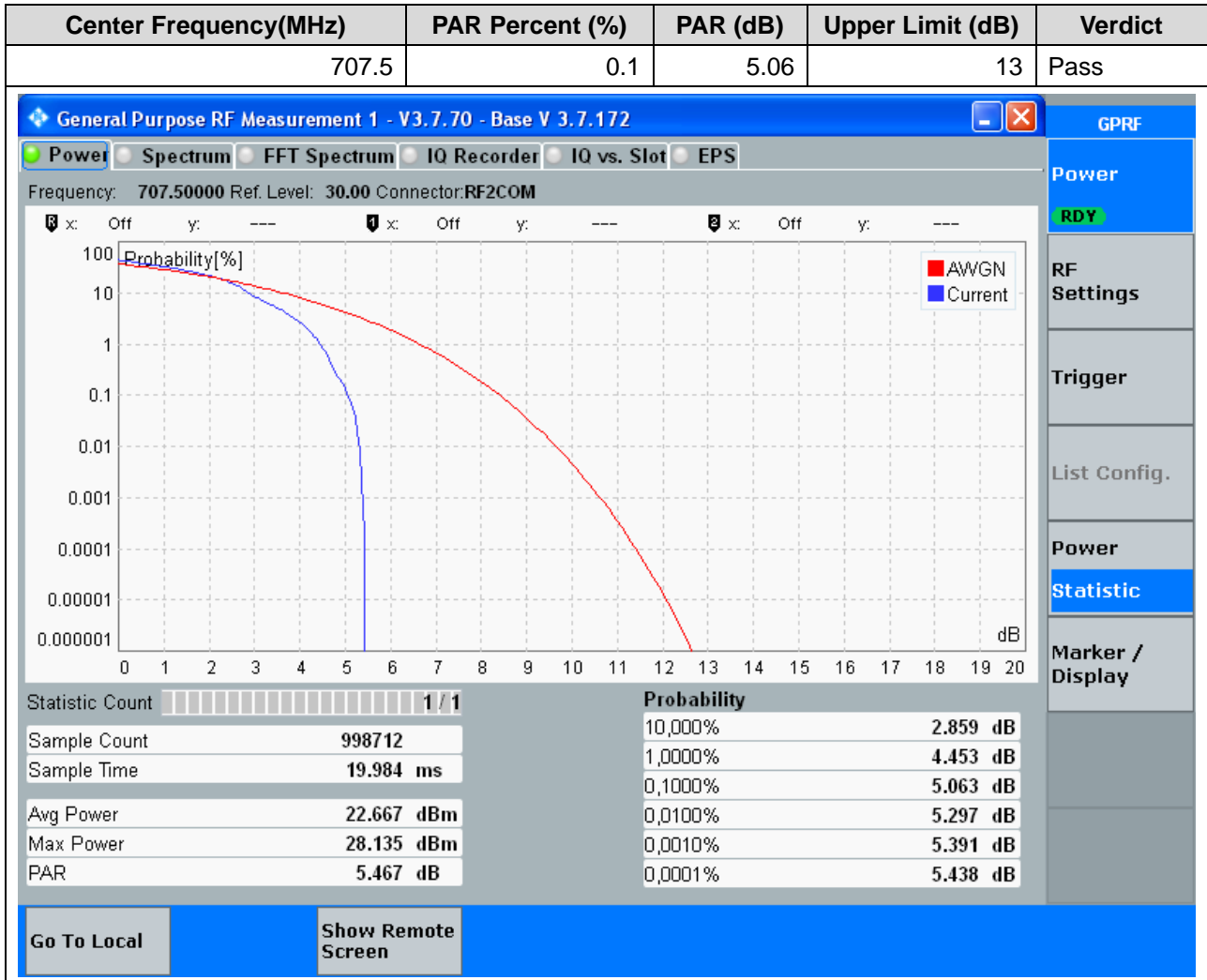


**5.6. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:6, Channel:23095, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

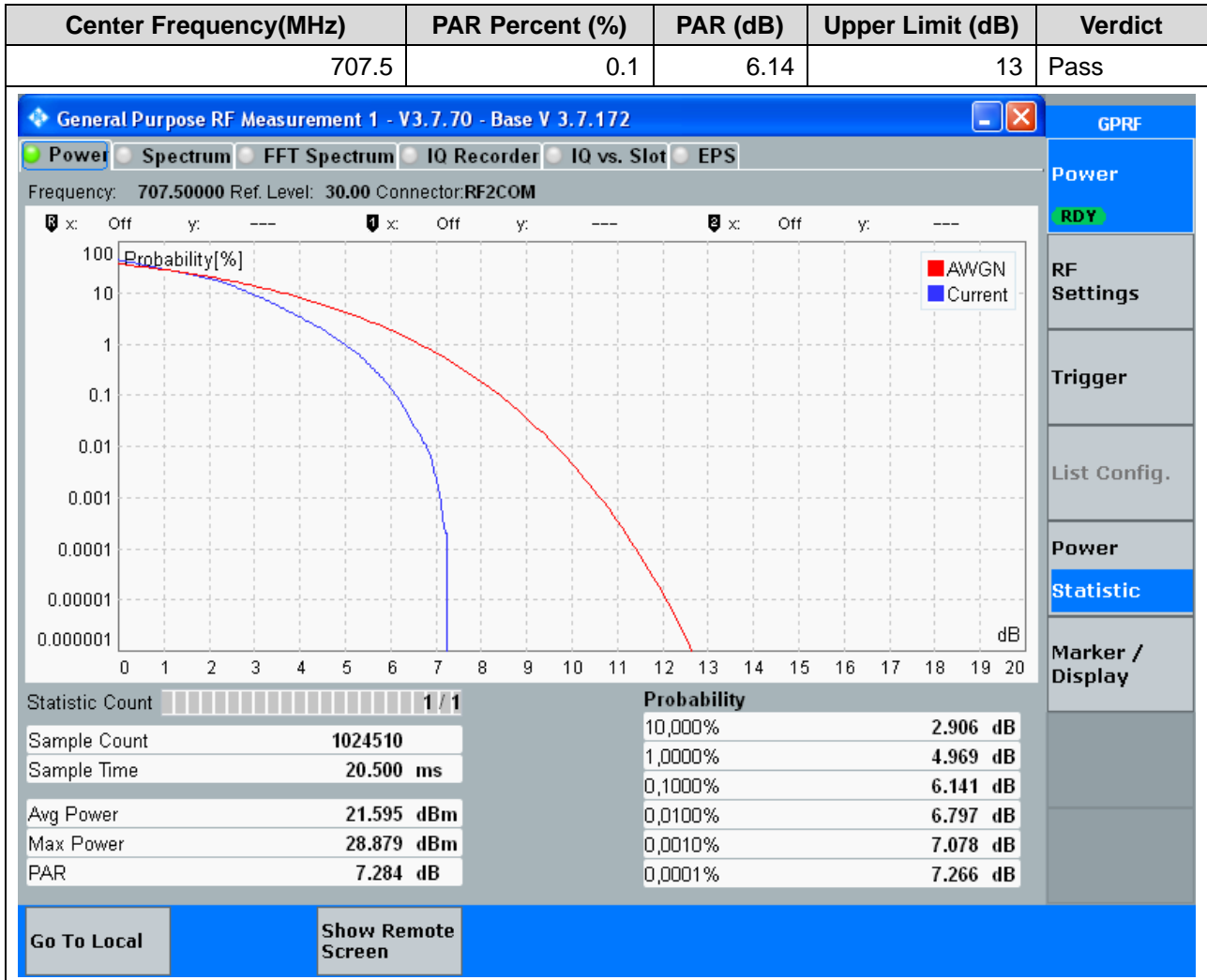




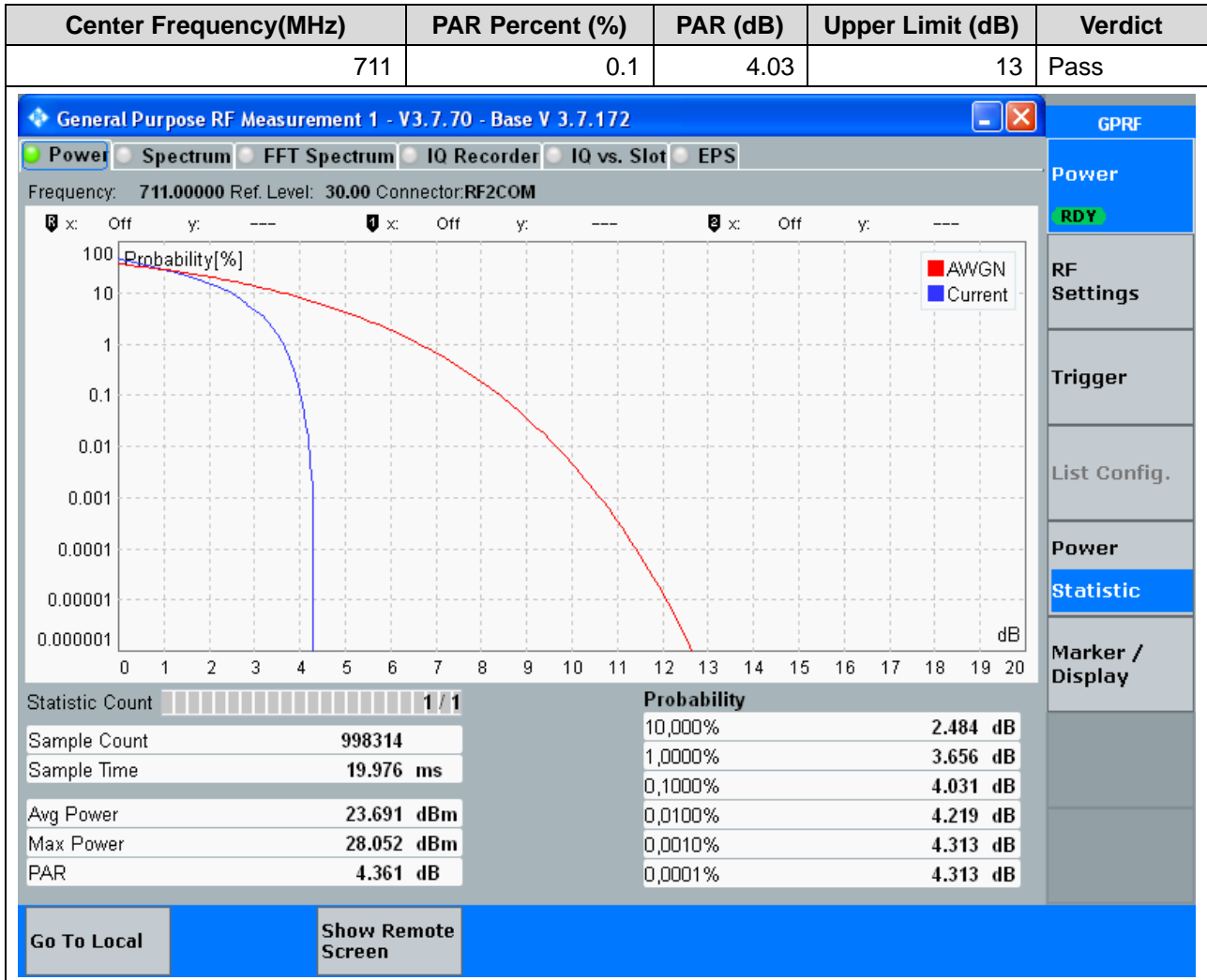
**5.7. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:7, Channel:23095, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)**



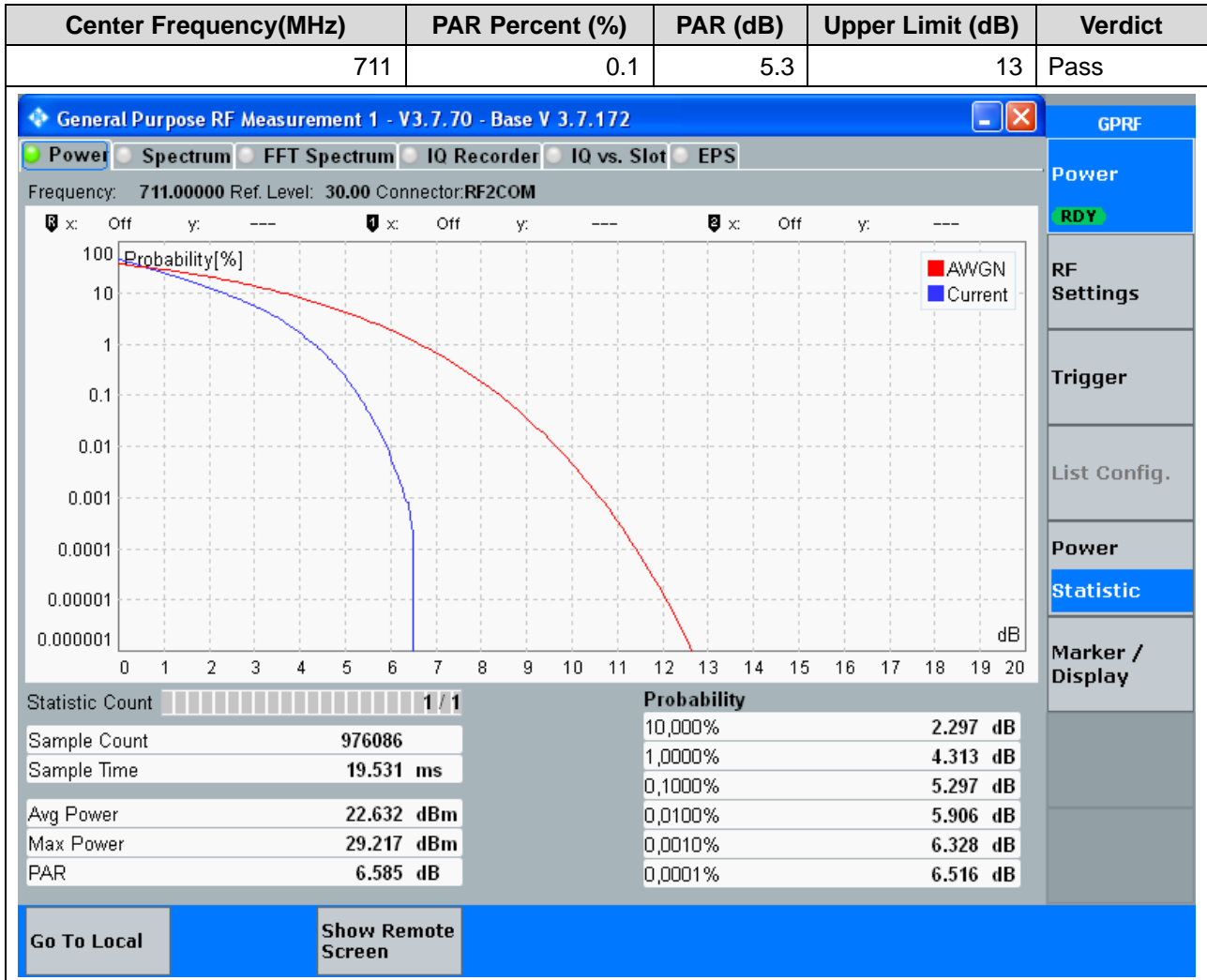
**5.8. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:8, Channel:23095, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



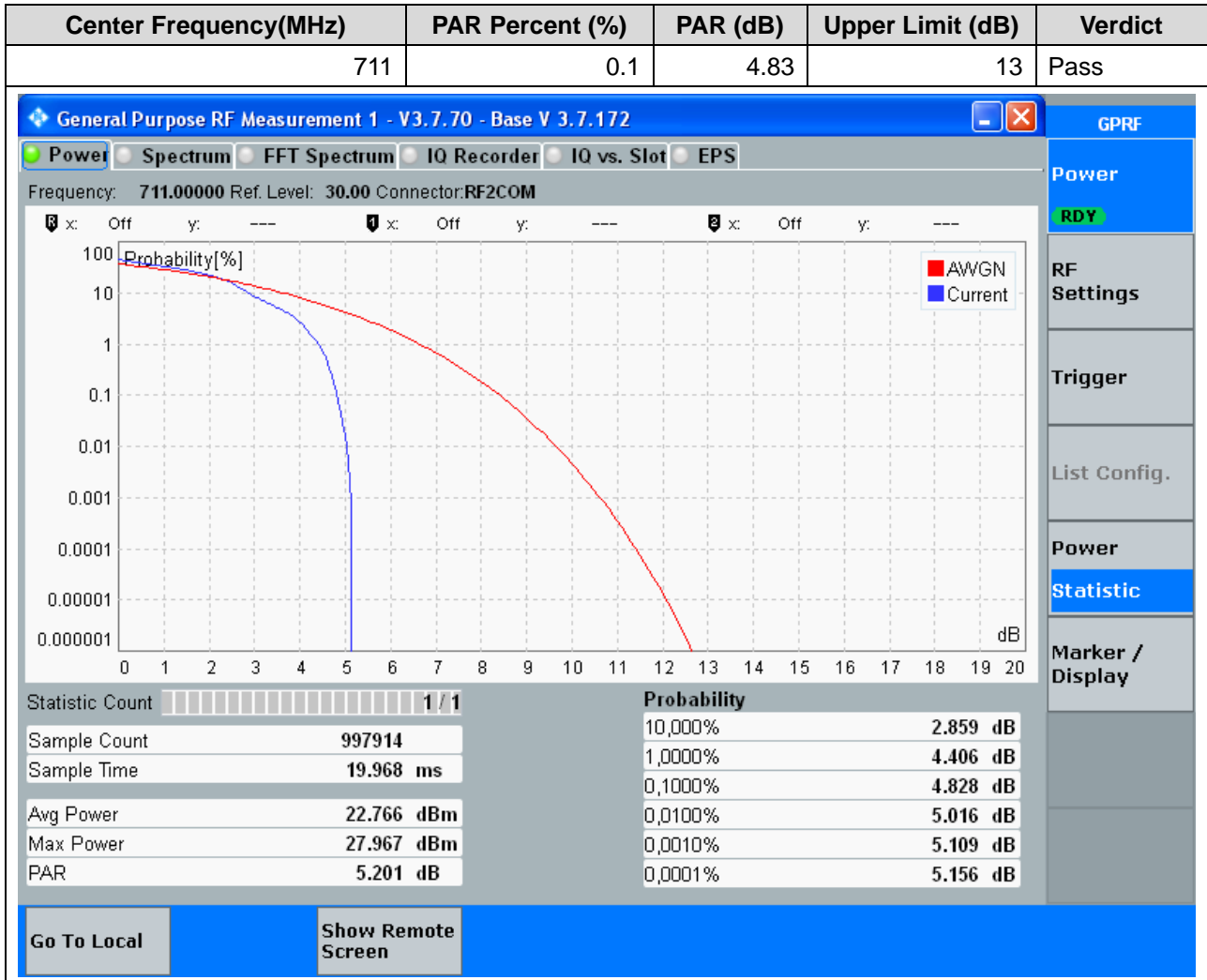
**5.9. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:9, Channel:23130, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)**



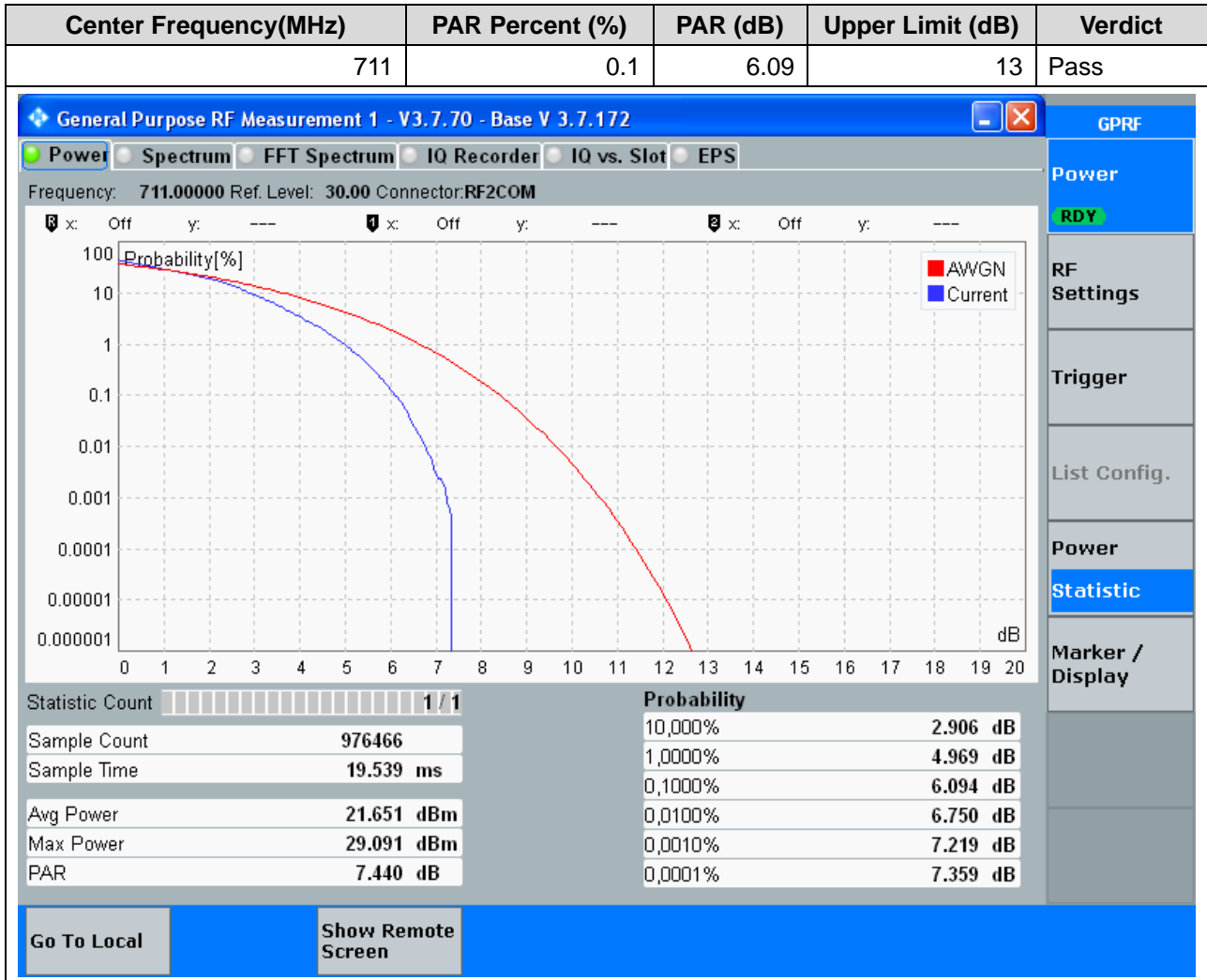
**5.10. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:10, Channel:23130, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



**5.11. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:11, Channel:23130, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)**

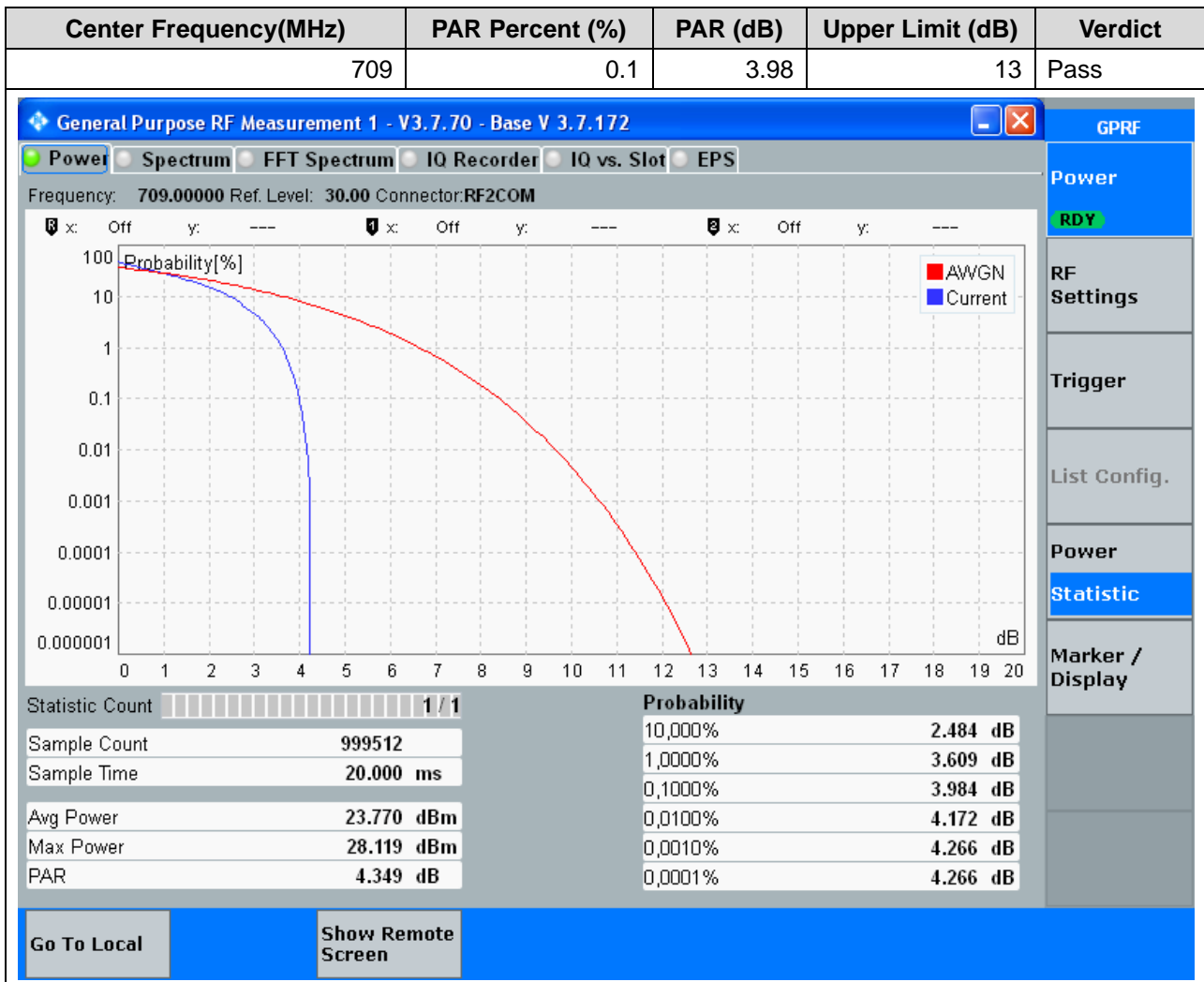


**5.12. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:12, Channel:23130, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

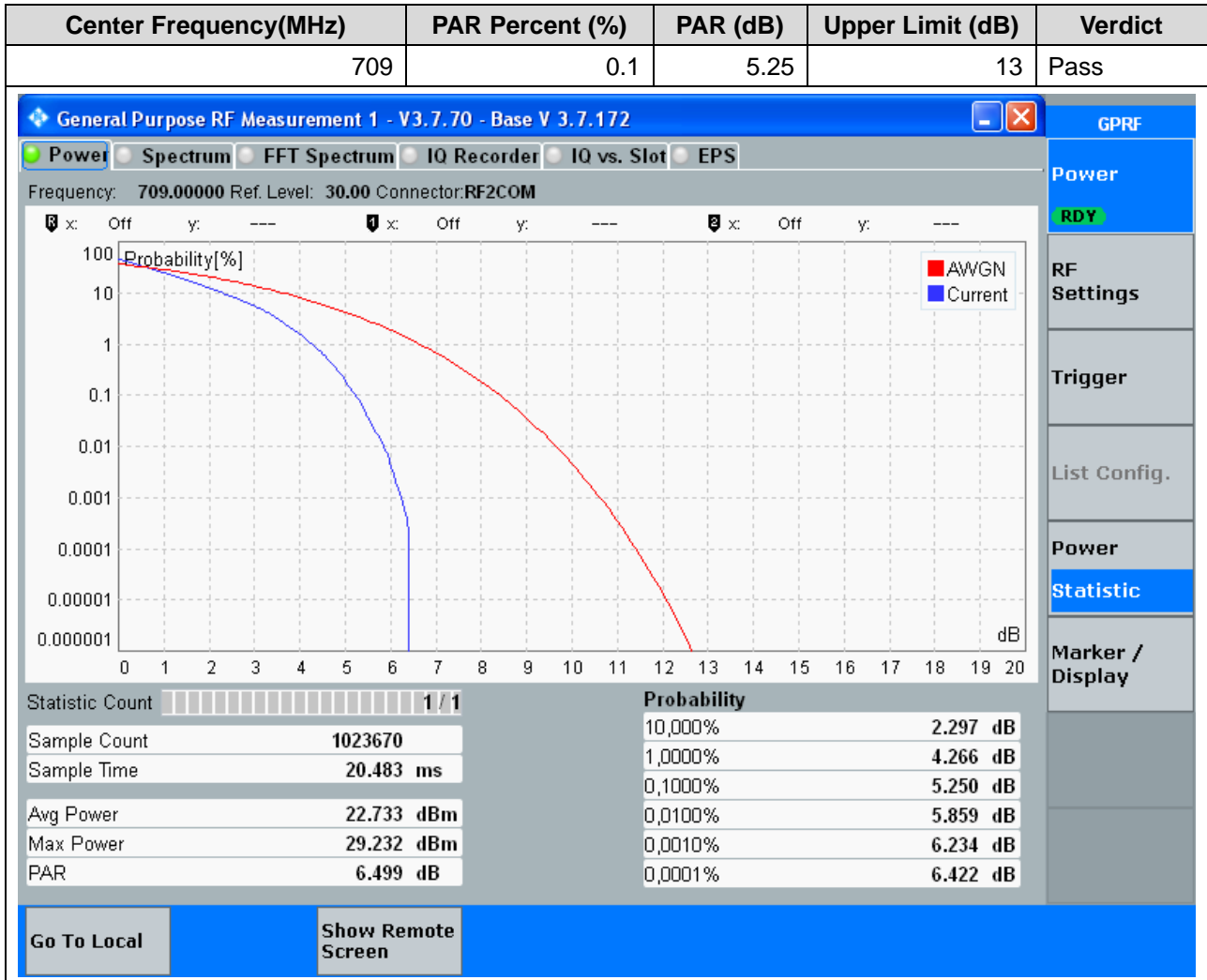


## 6. LTE\_Band17

### 6.1. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:1, Channel:23780, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

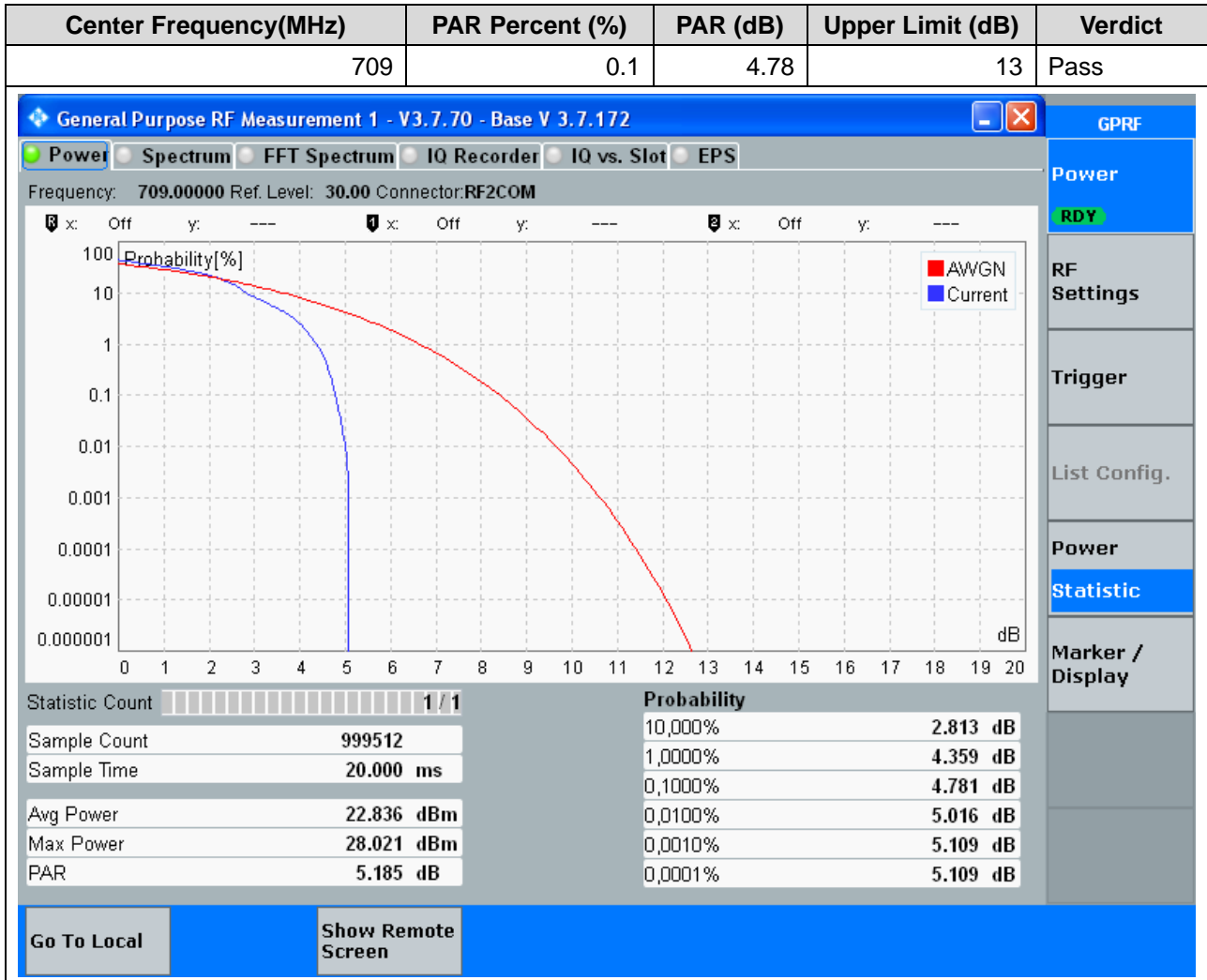


**6.2. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:2, Channel:23780, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

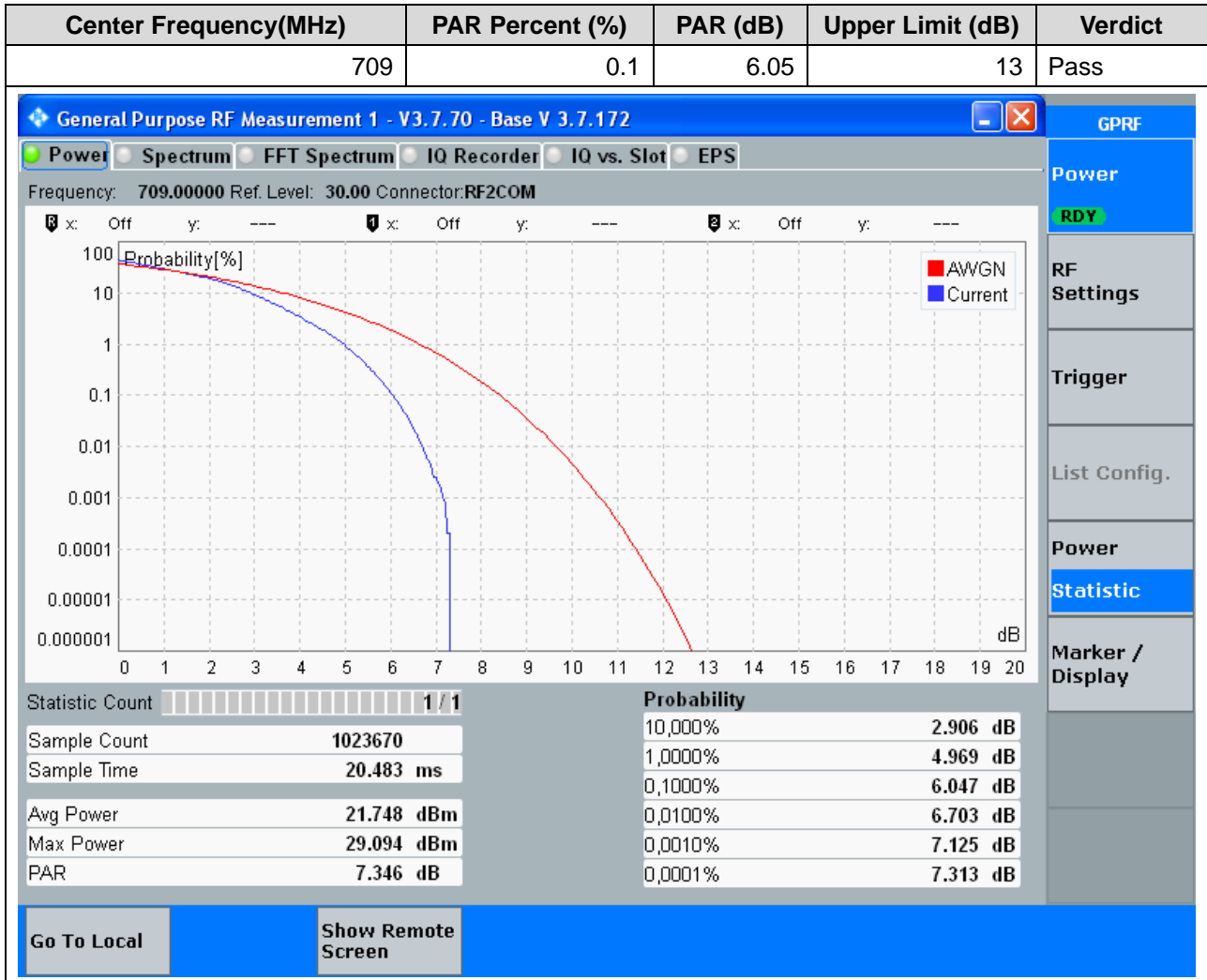




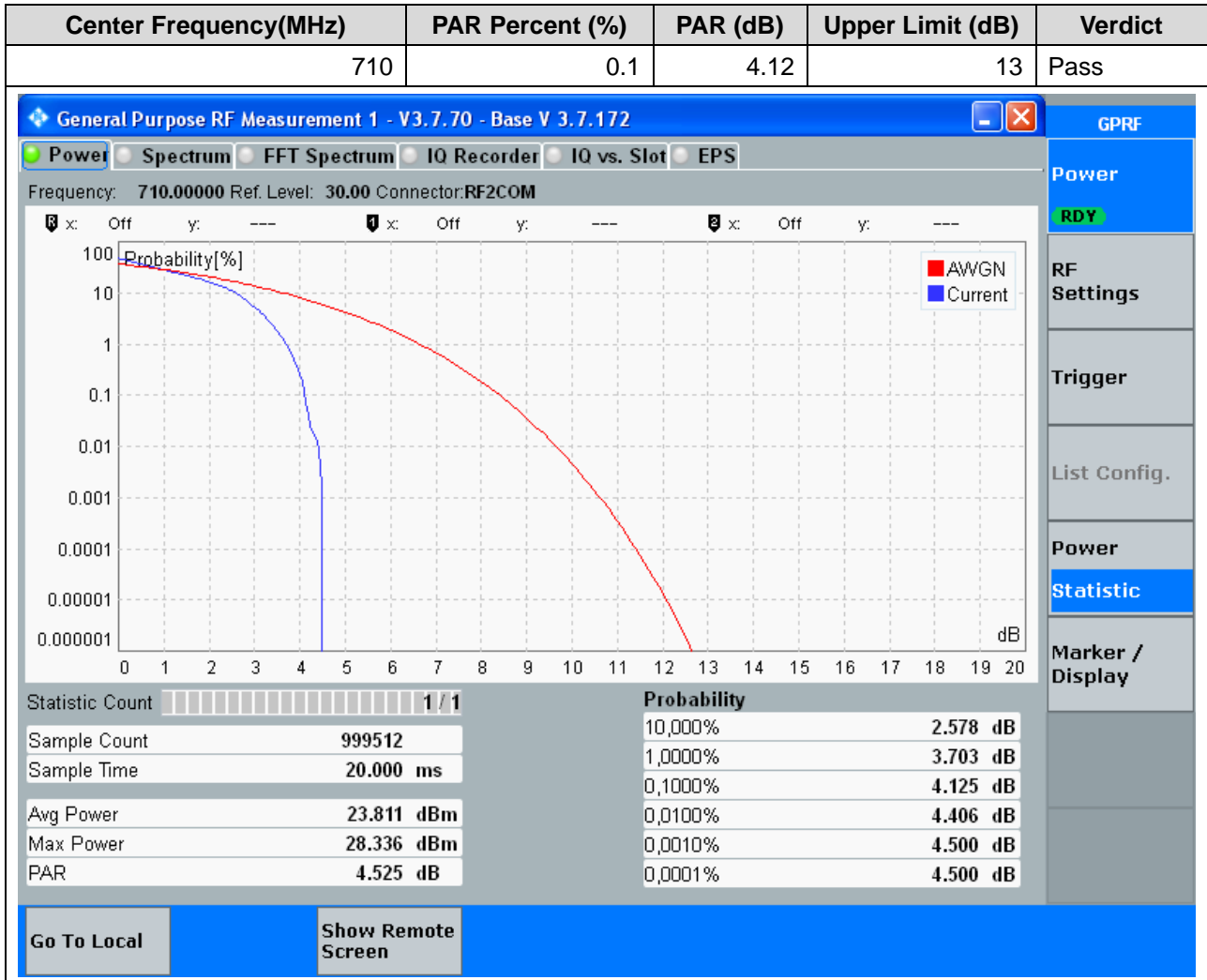
### 6.3. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:3, Channel:23780, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)



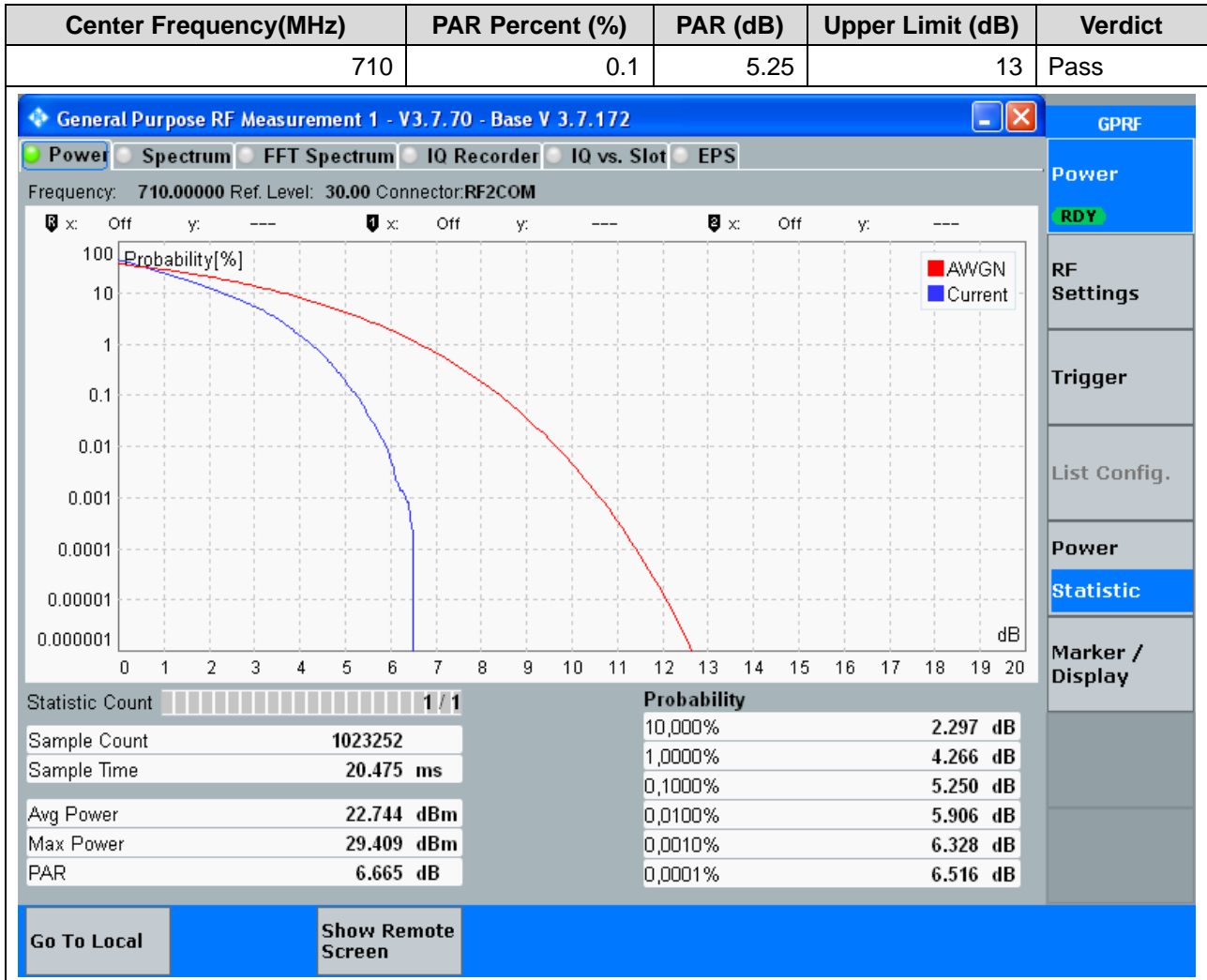
**6.4. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:4, Channel:23780, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



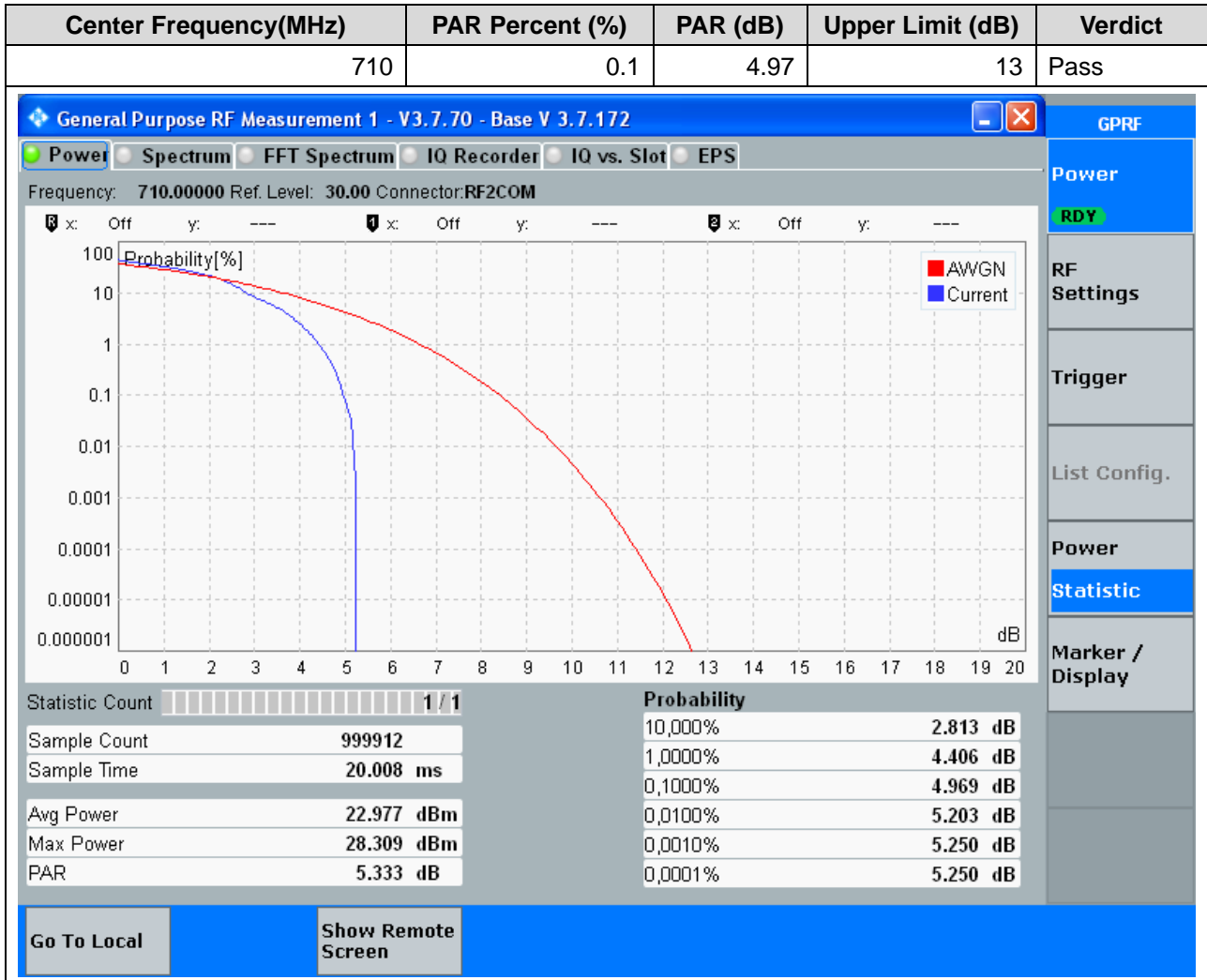
**6.5. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:5, Channel:23790, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)**



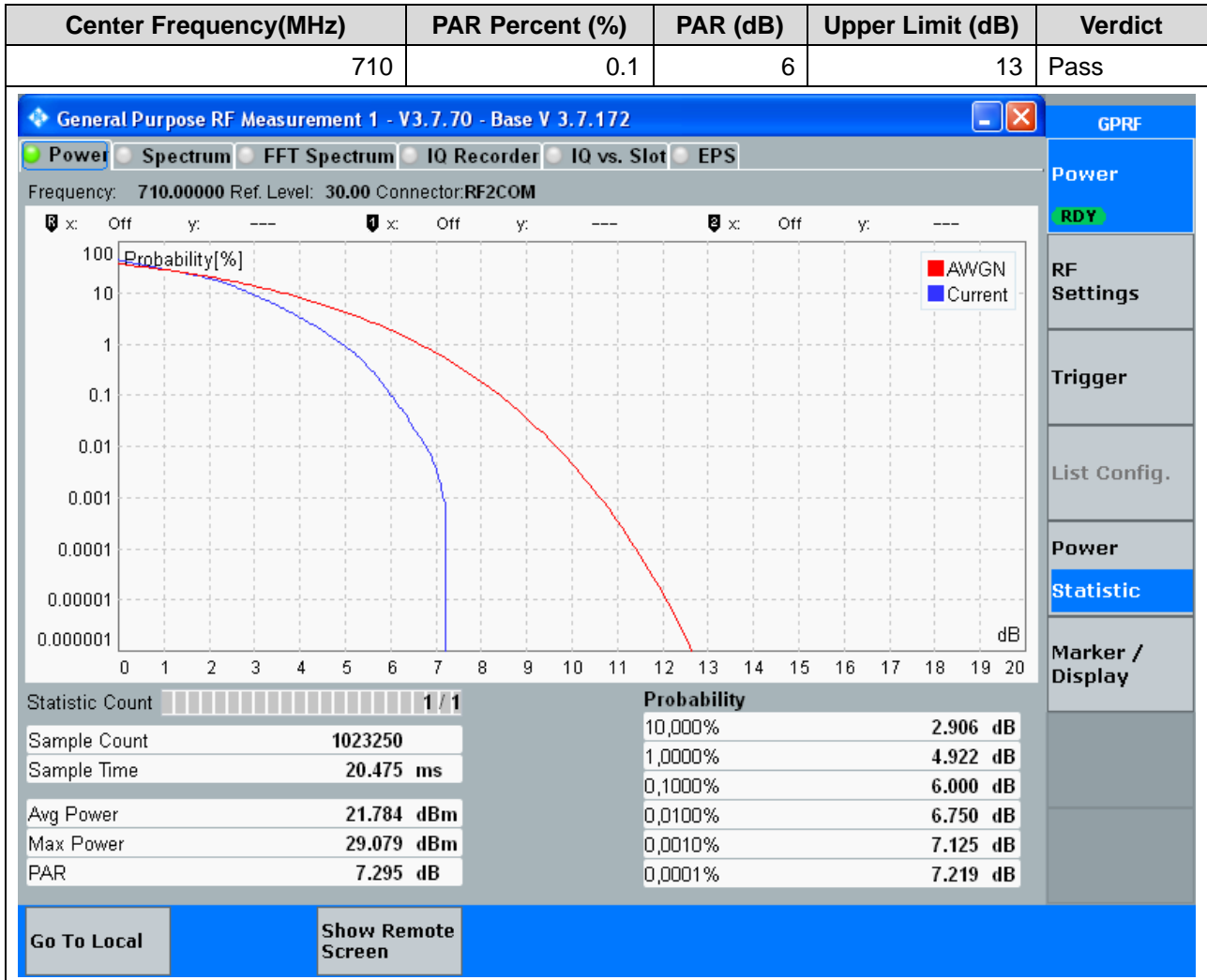
**6.6. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:6, Channel:23790, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



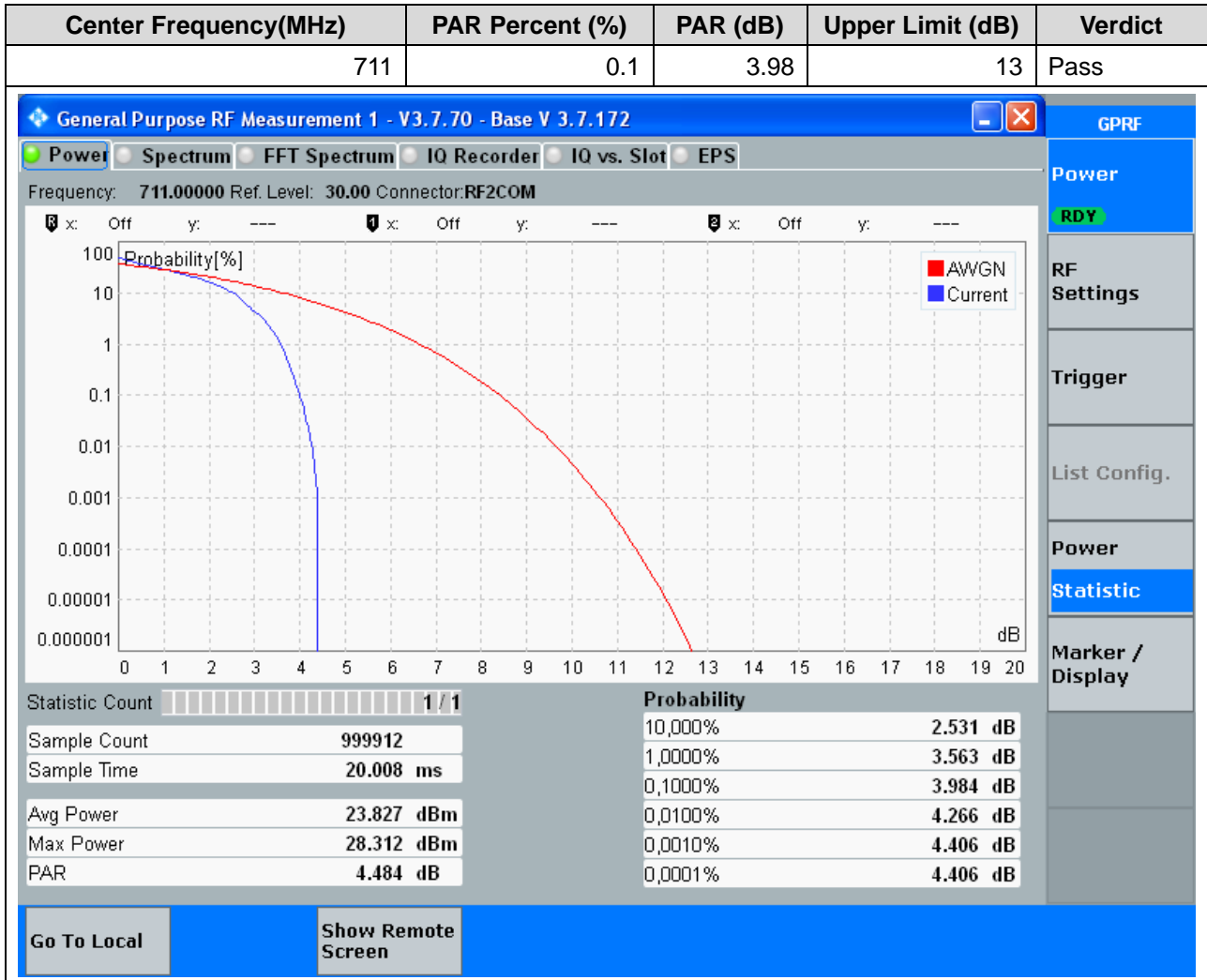
**6.7. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:7, Channel:23790, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)**



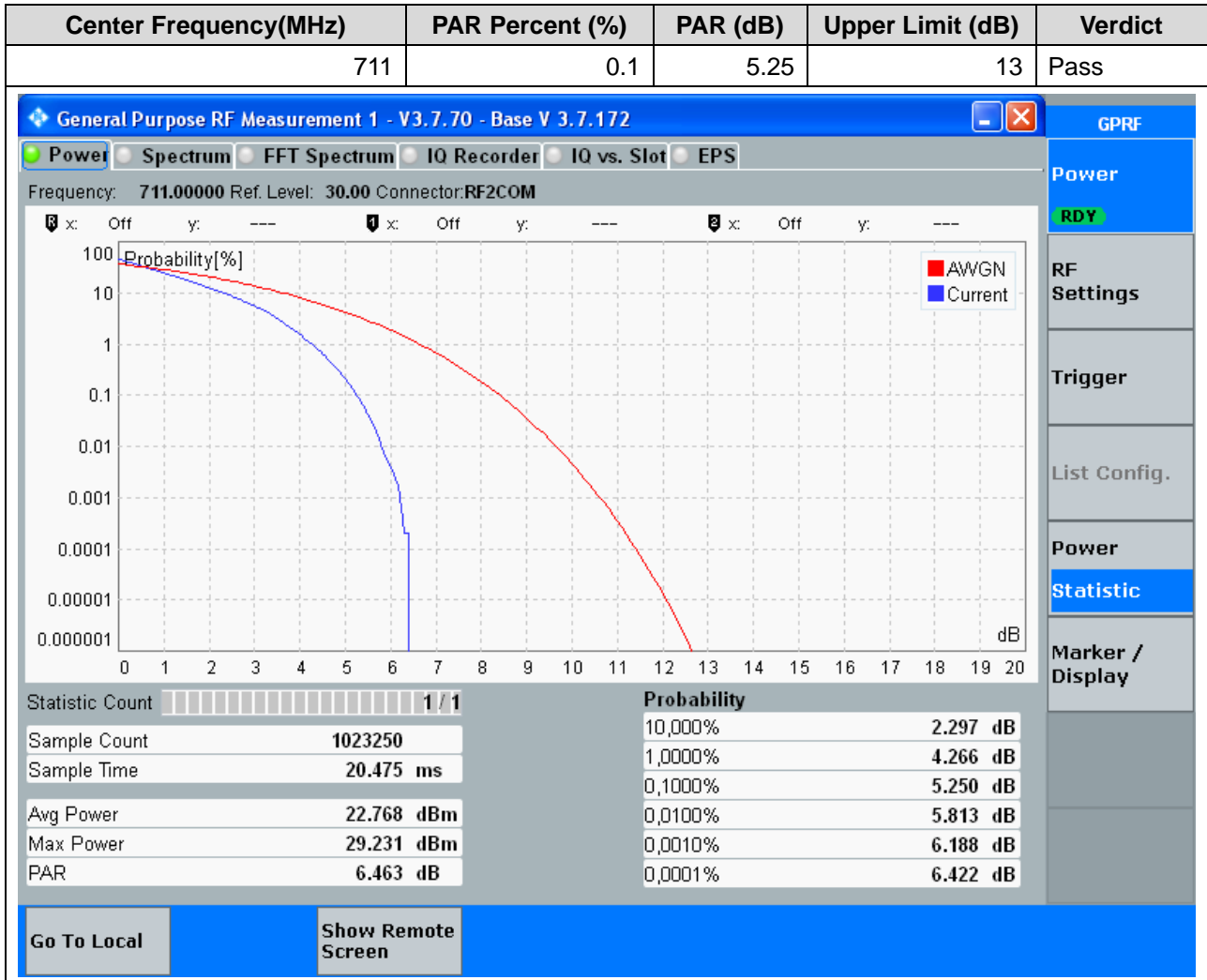
**6.8. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:8, Channel:23790, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



**6.9. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:9, Channel:23800, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)**

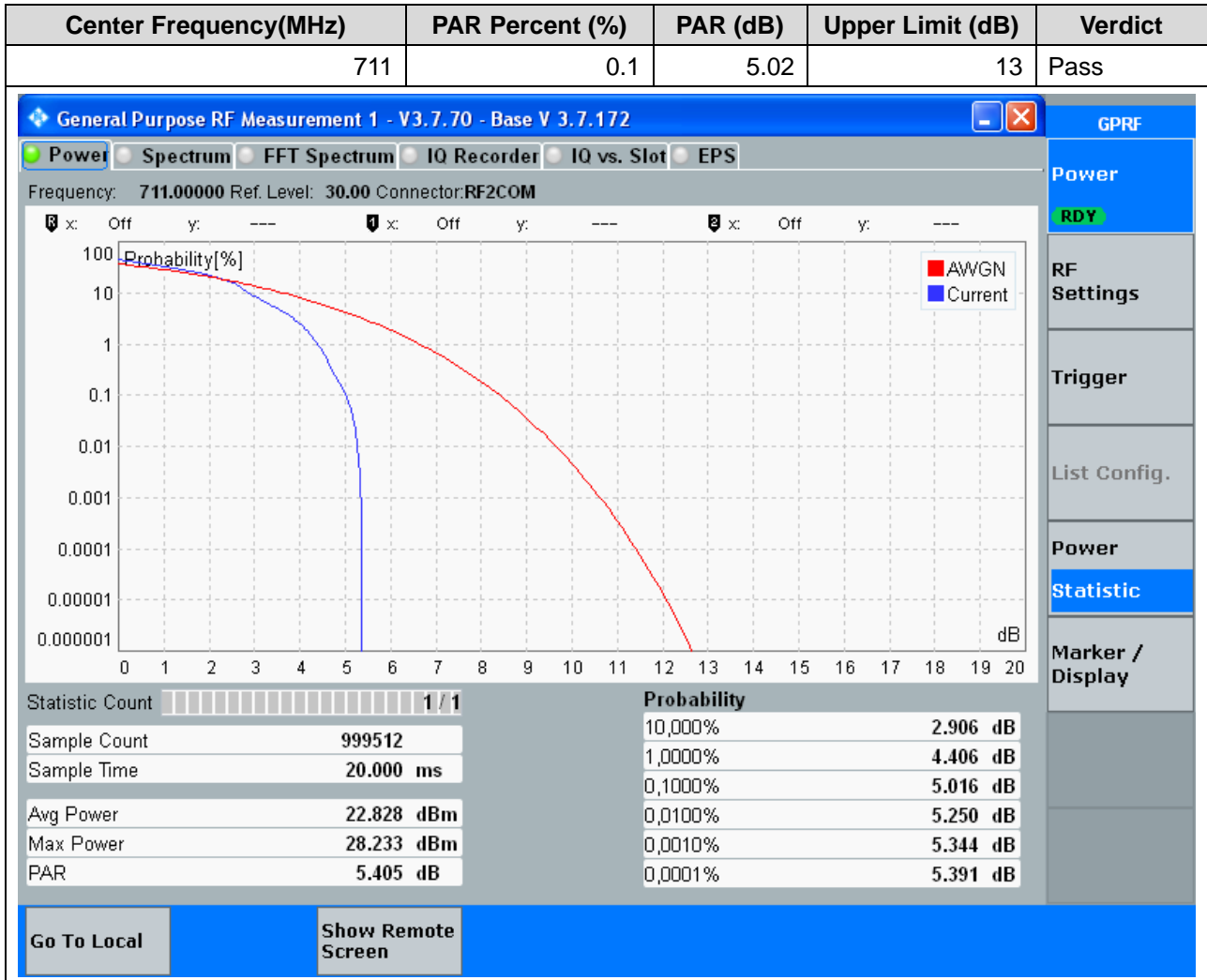


**6.10. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:10, Channel:23800, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

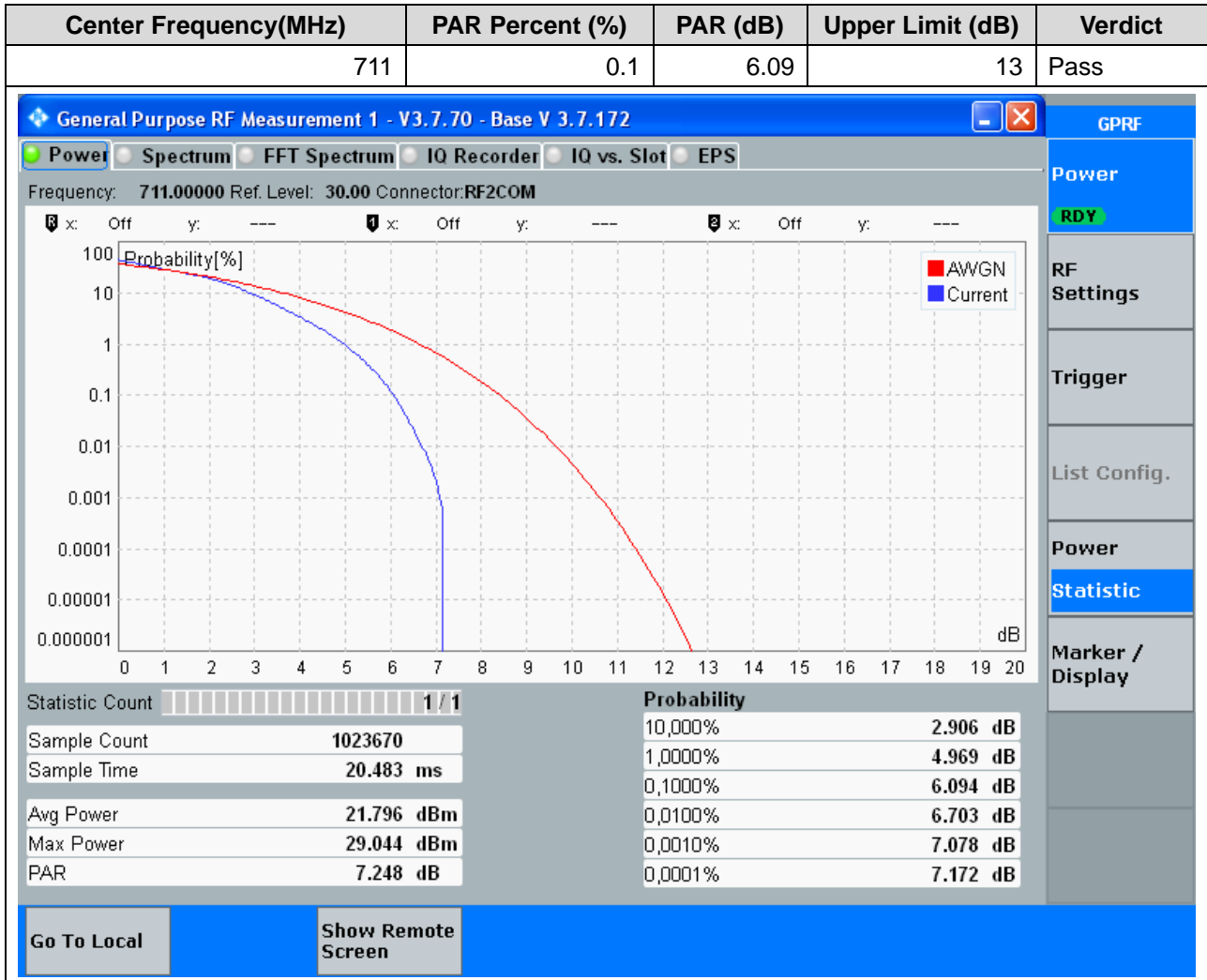




**6.11. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:11, Channel:23800, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)**

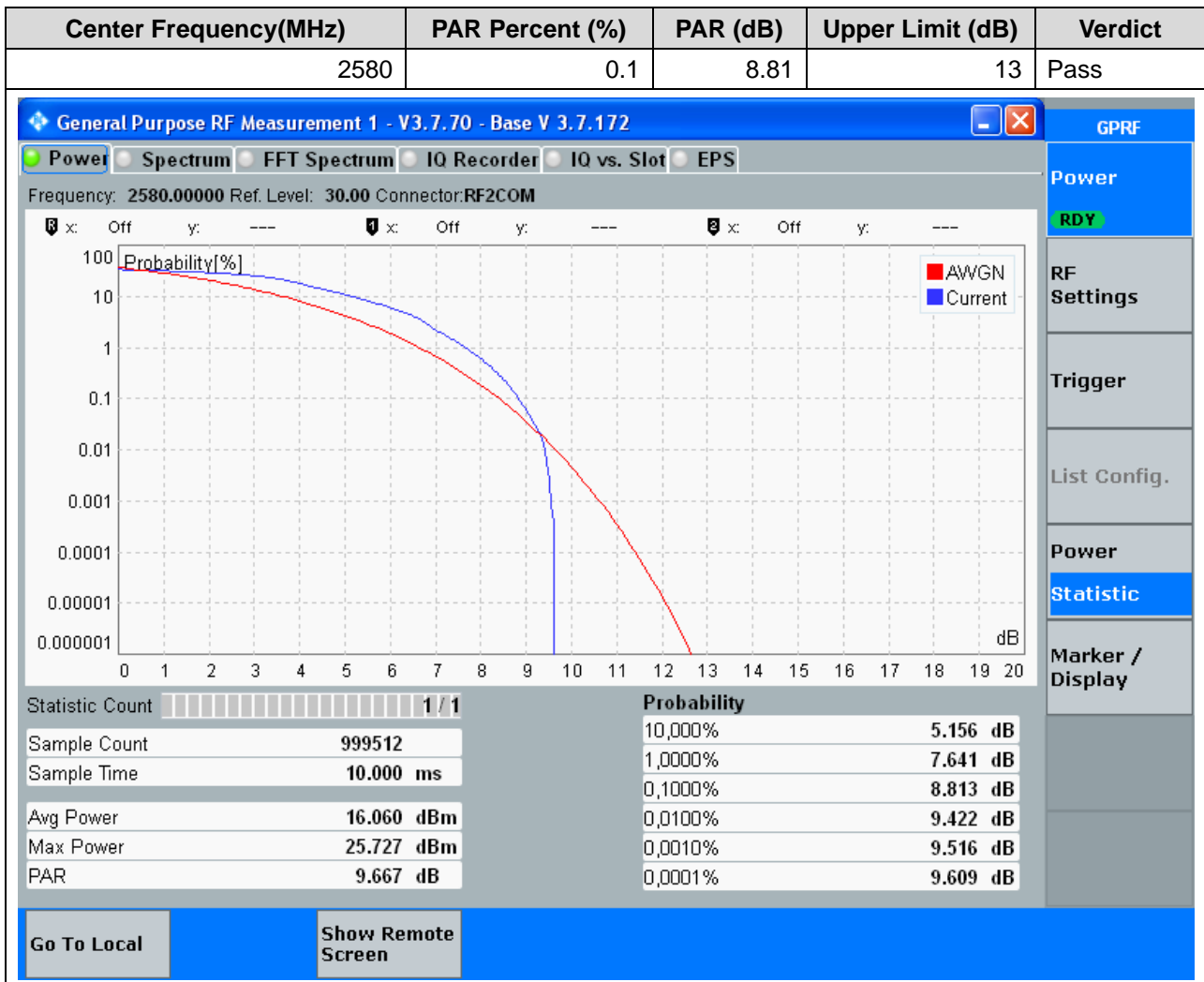


**6.12. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:12, Channel:23800, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

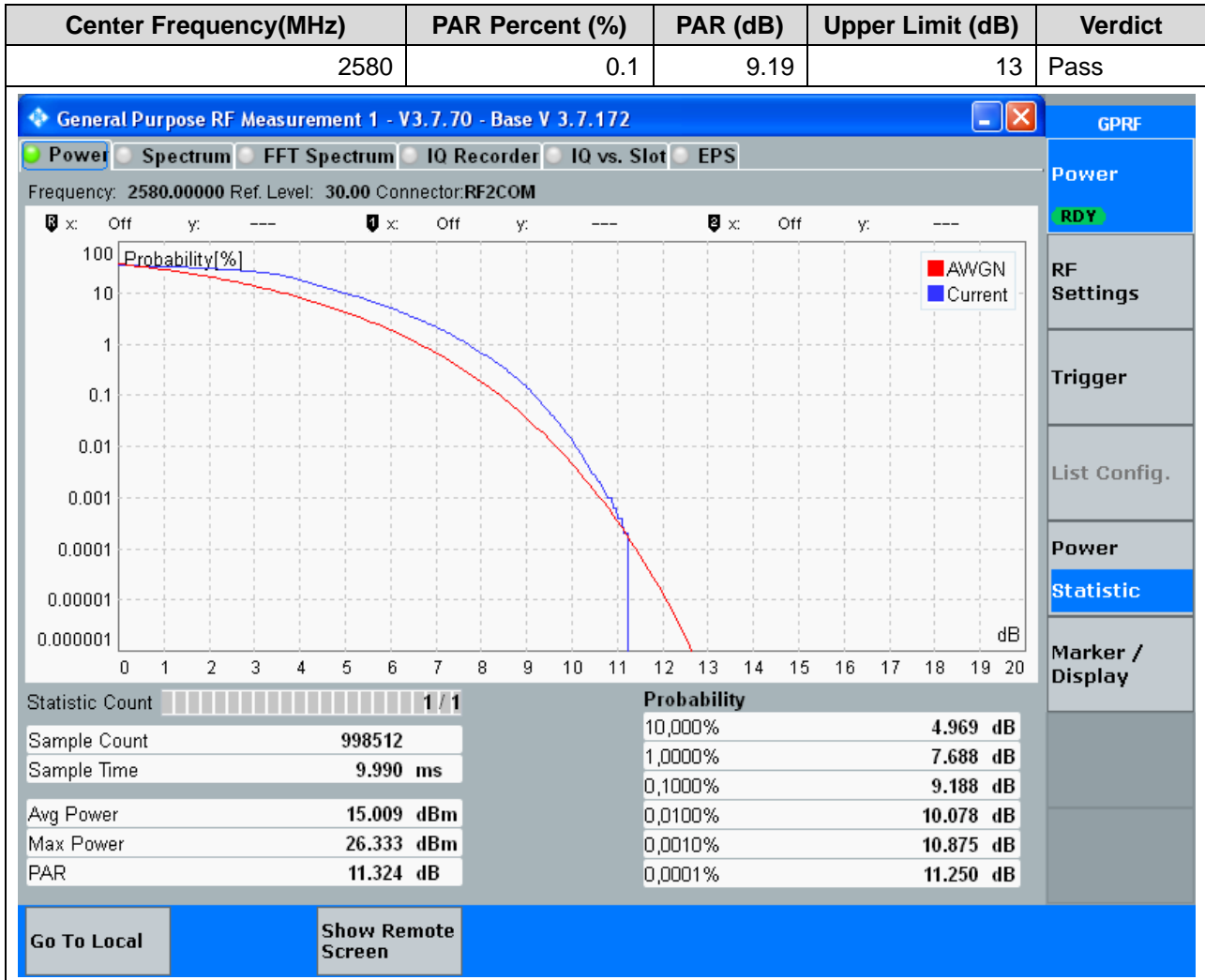


## 8. LTE\_Band38

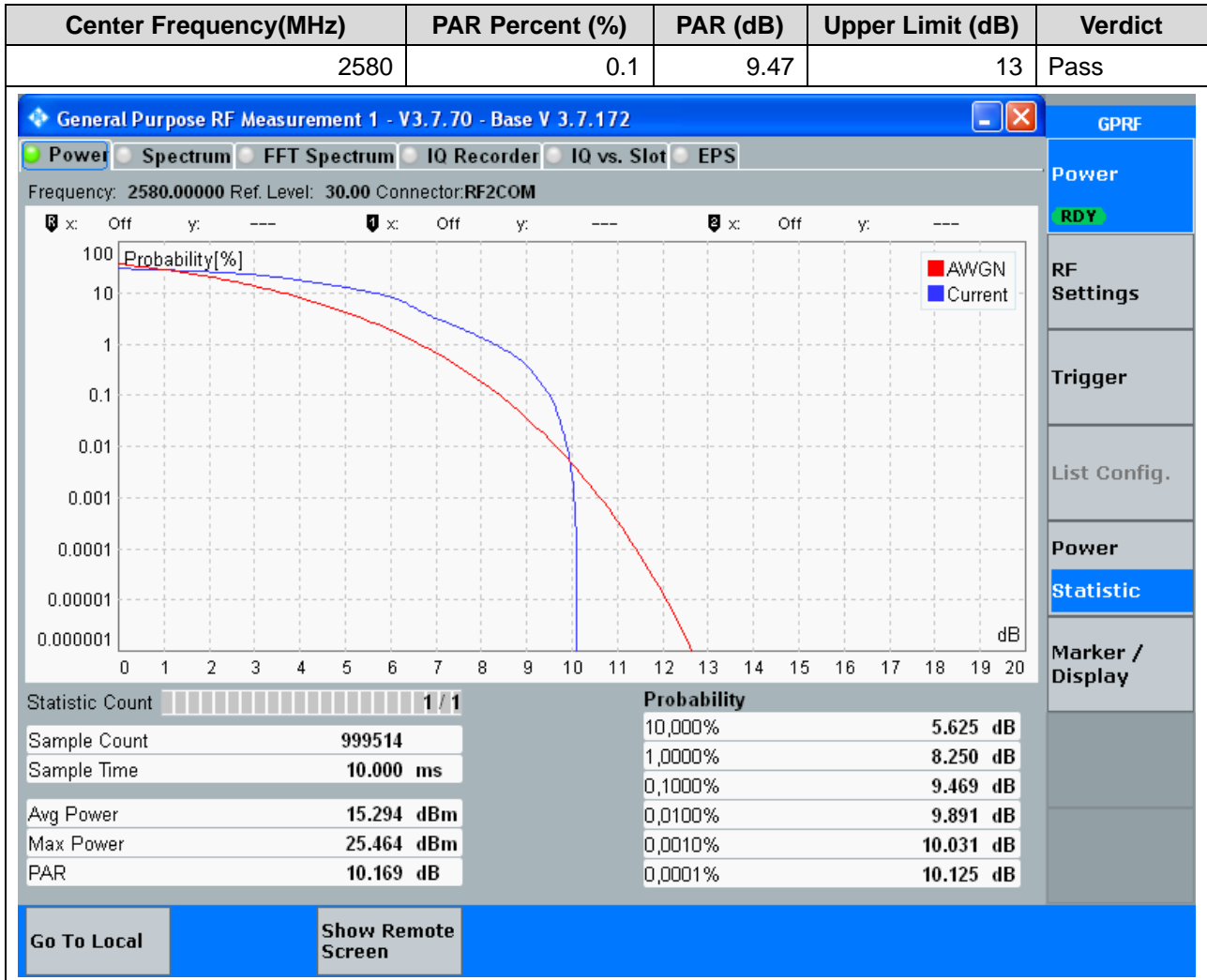
### 8.1. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:1, Channel:37850, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



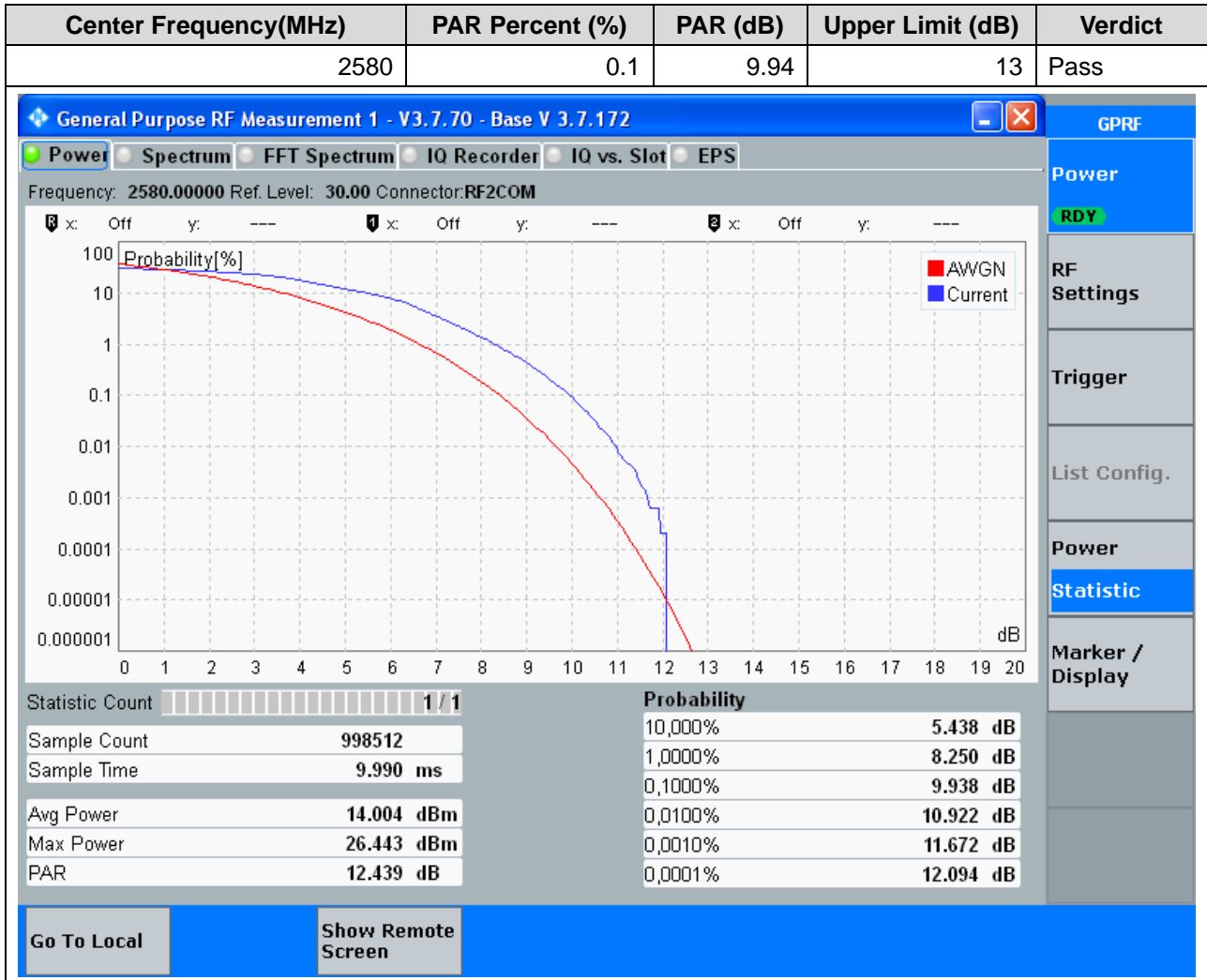
## 8.2. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:2, Channel:37850, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)



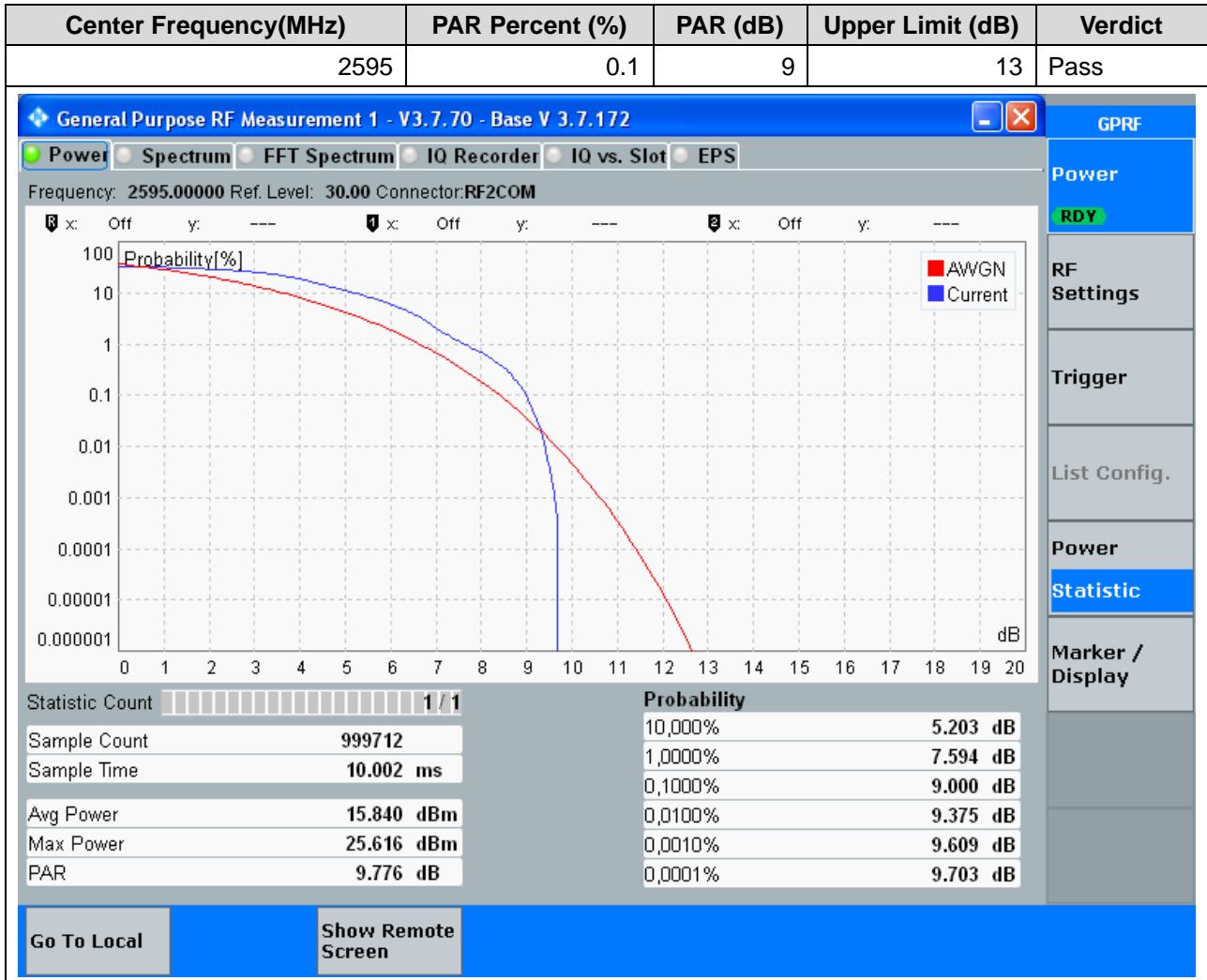
### 8.3. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:3, Channel:37850, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



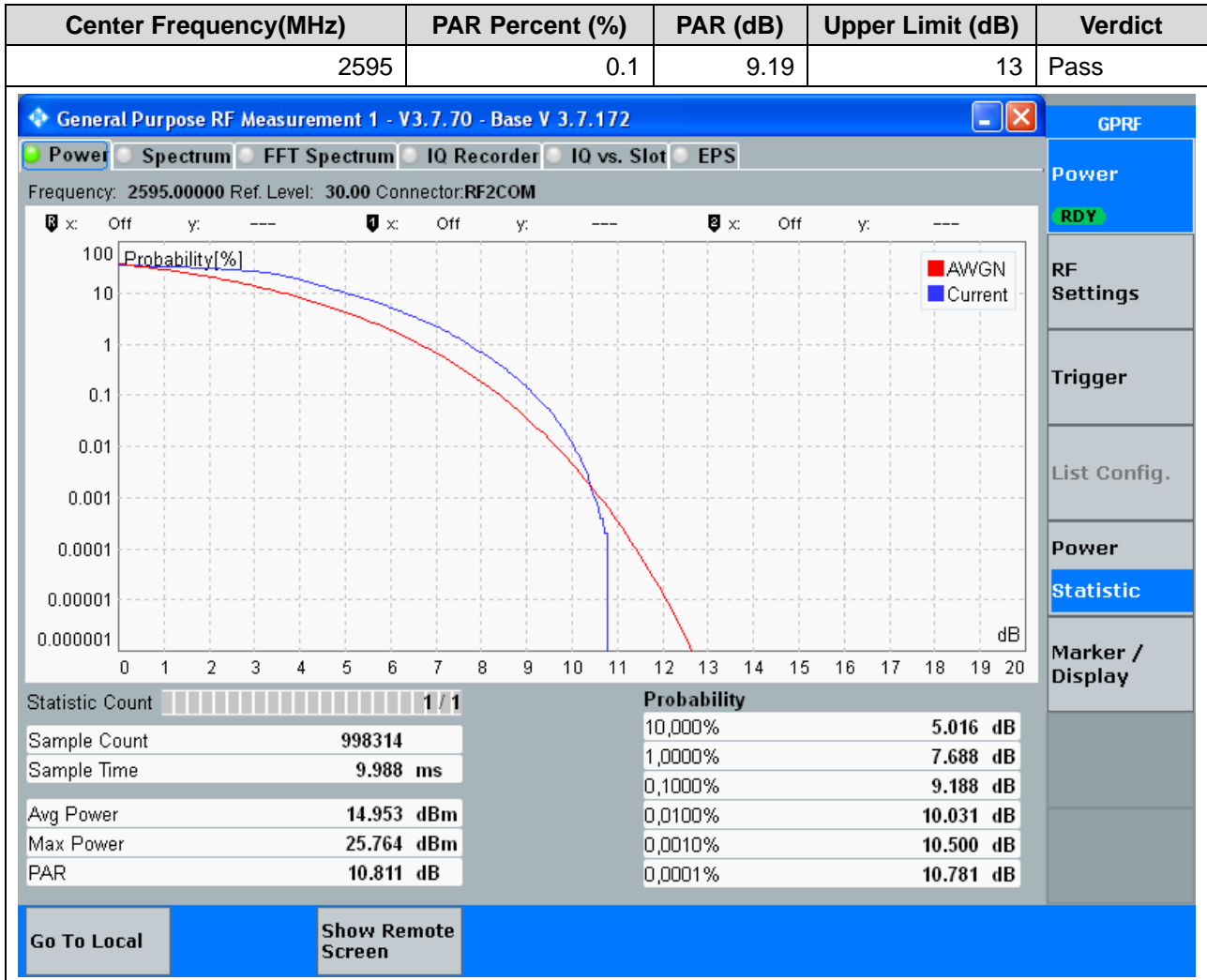
**8.4. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:4, Channel:37850, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



### 8.5. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:5, Channel:38000, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

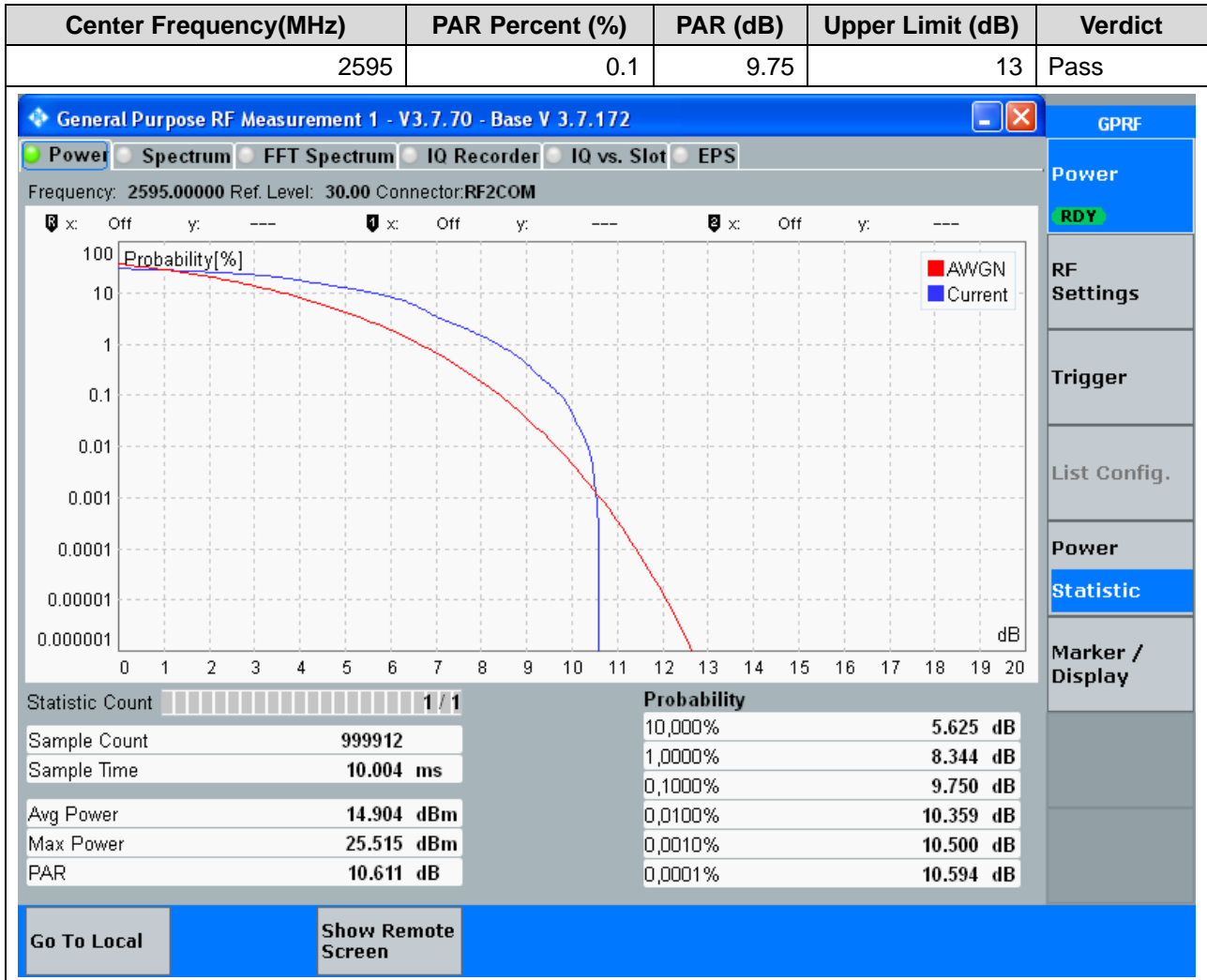


### 8.6. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:6, Channel:38000, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

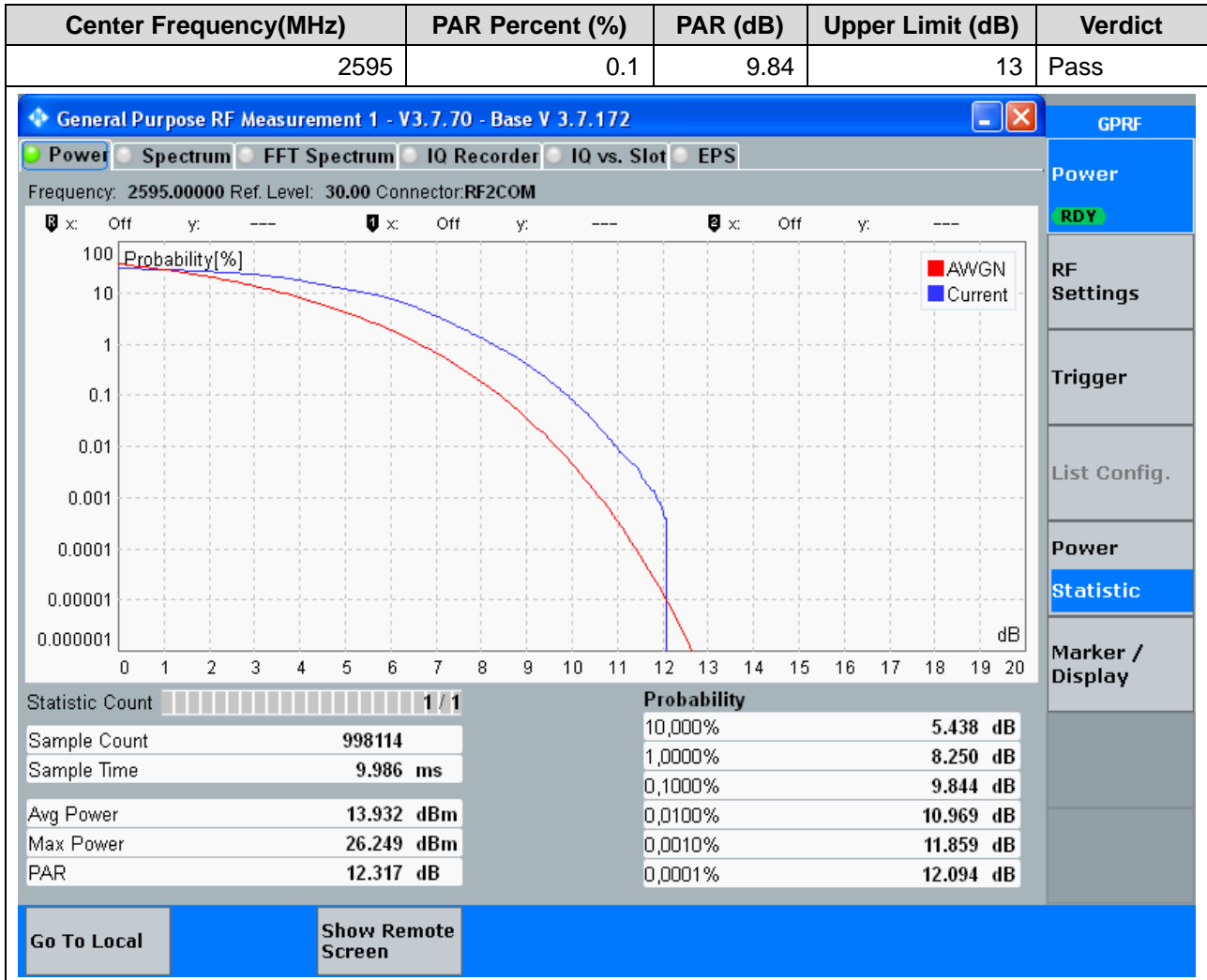




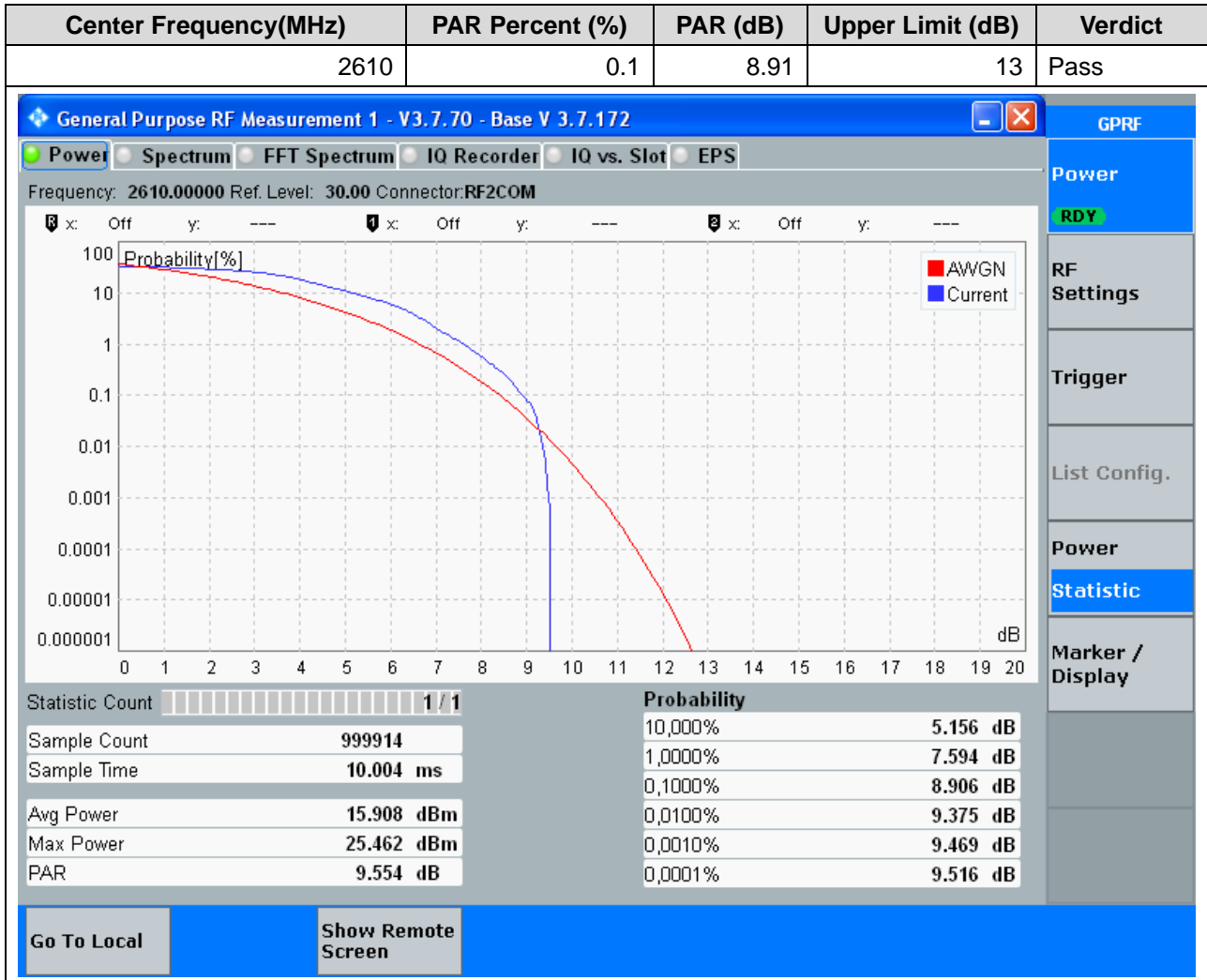
**8.7. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:7, Channel:38000, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)**



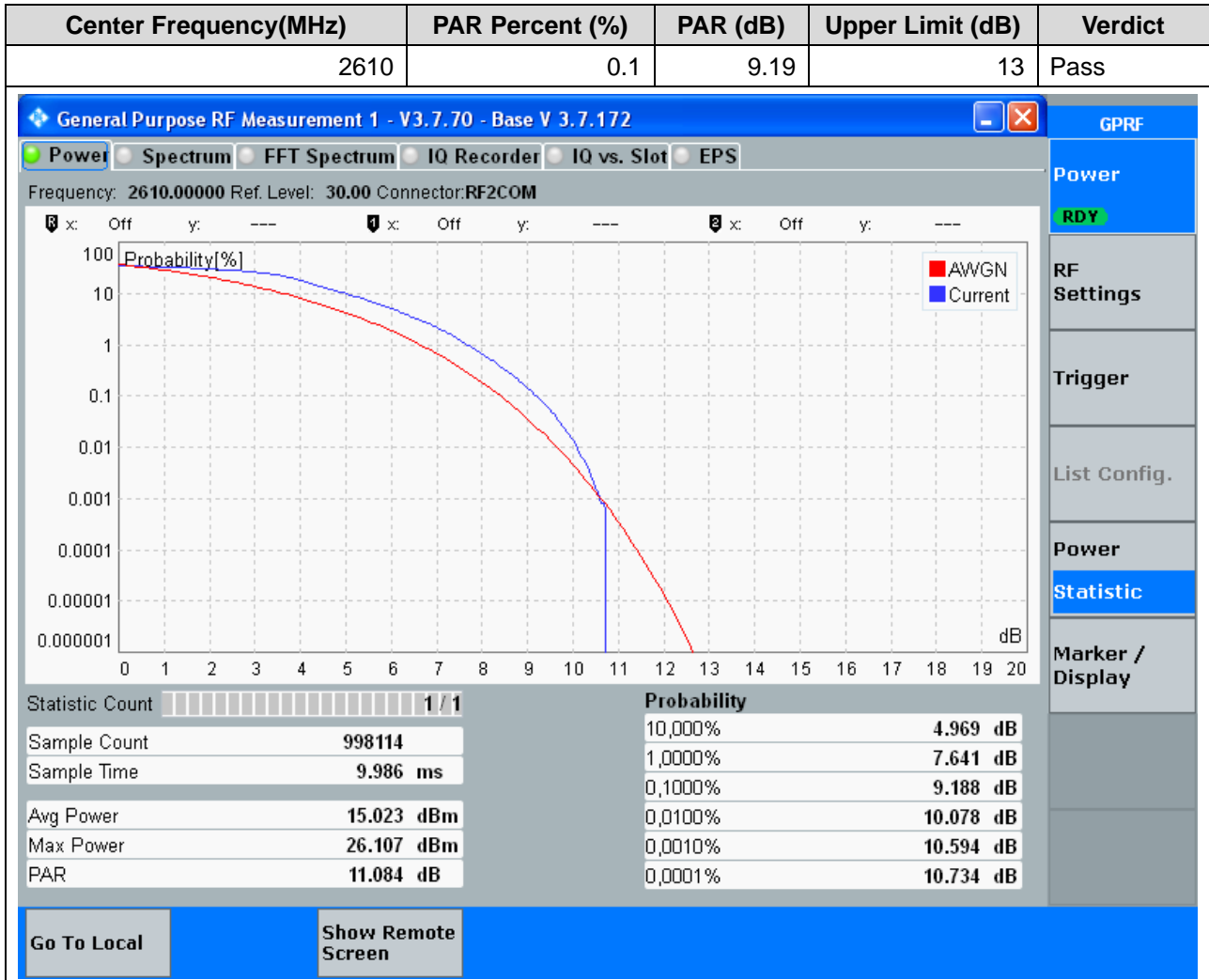
**8.8. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:8, Channel:38000, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



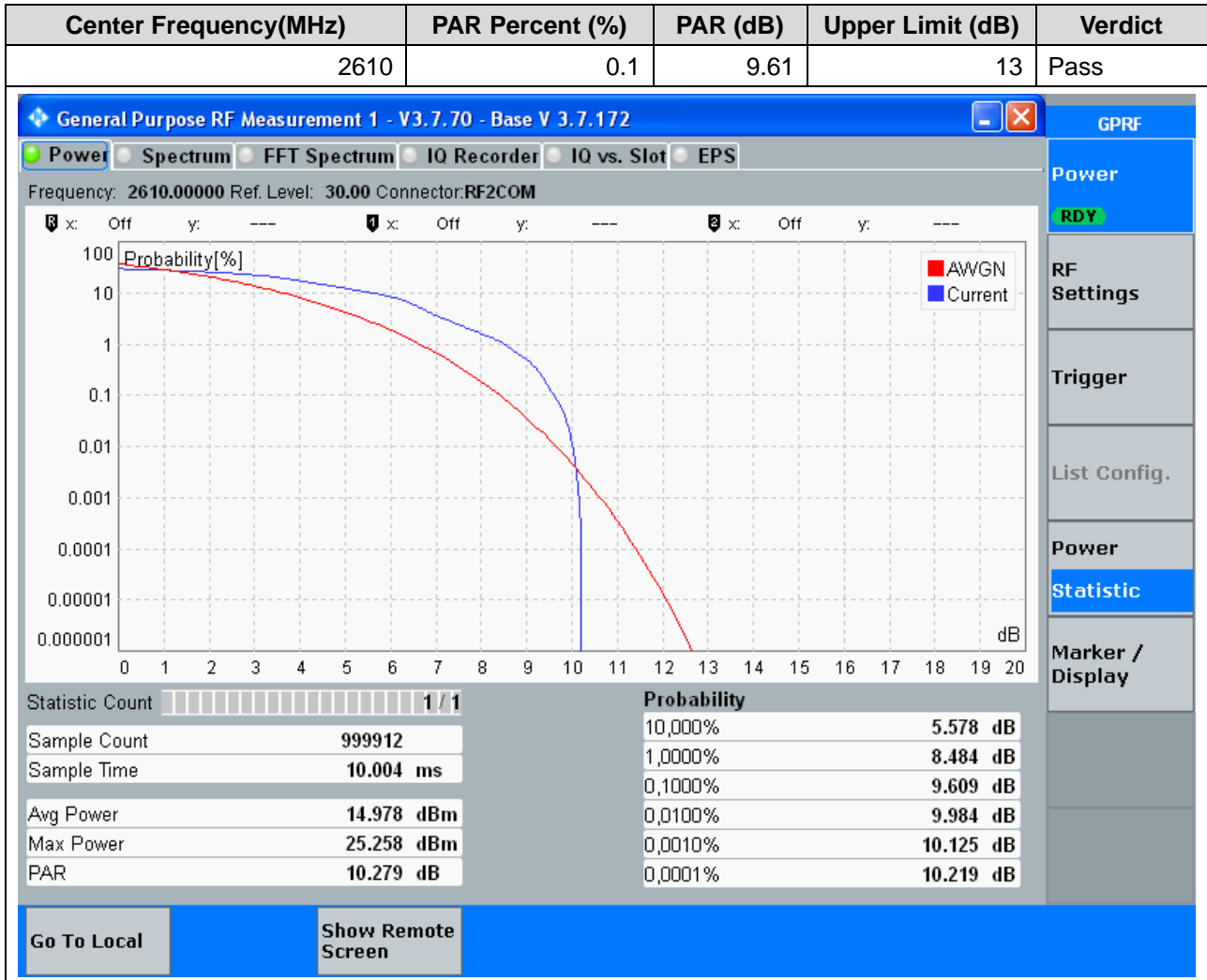
### 8.9. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:9, Channel:38150, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



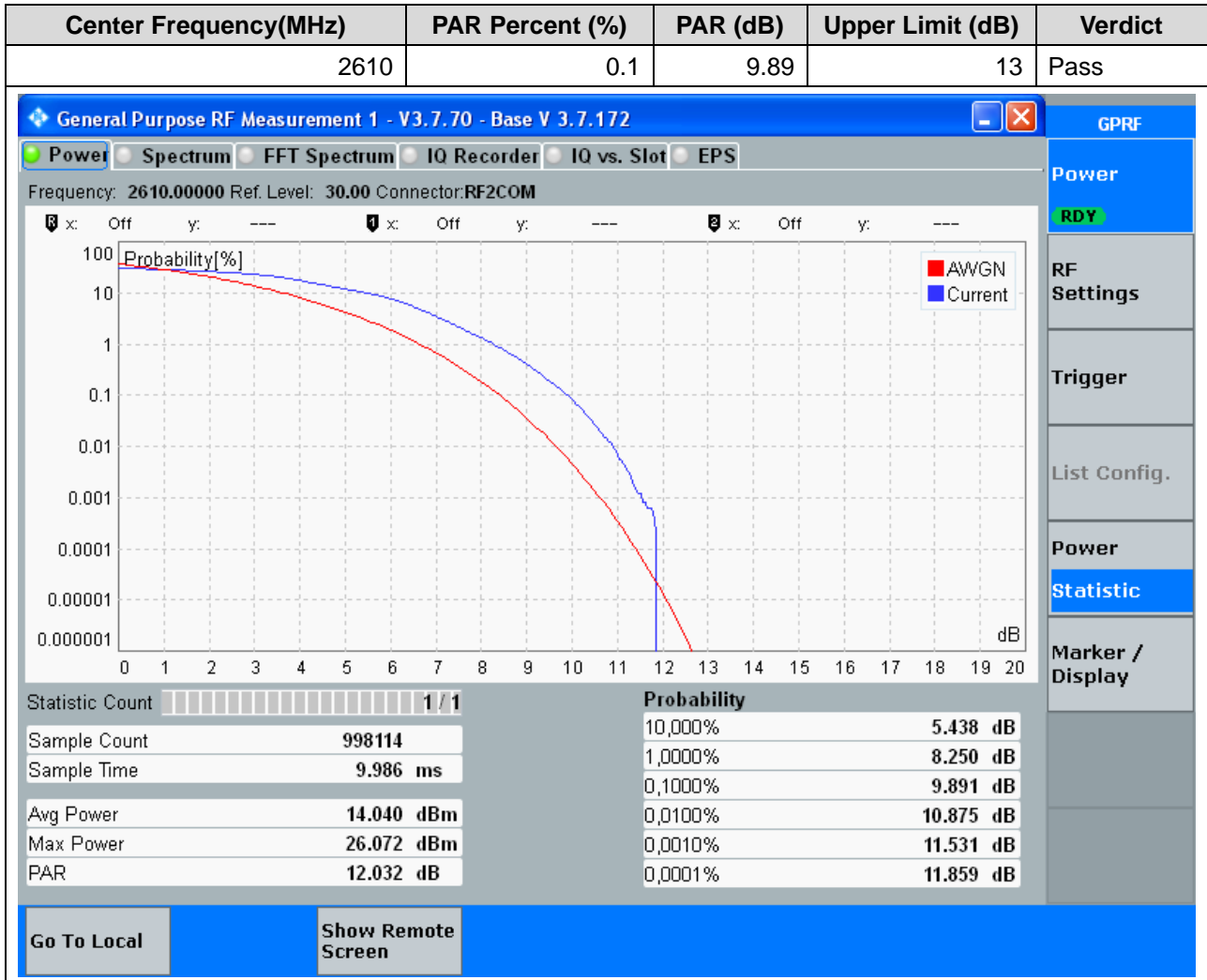
**8.10. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:10, Channel:38150, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



**8.11. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:11, Channel:38150, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)**

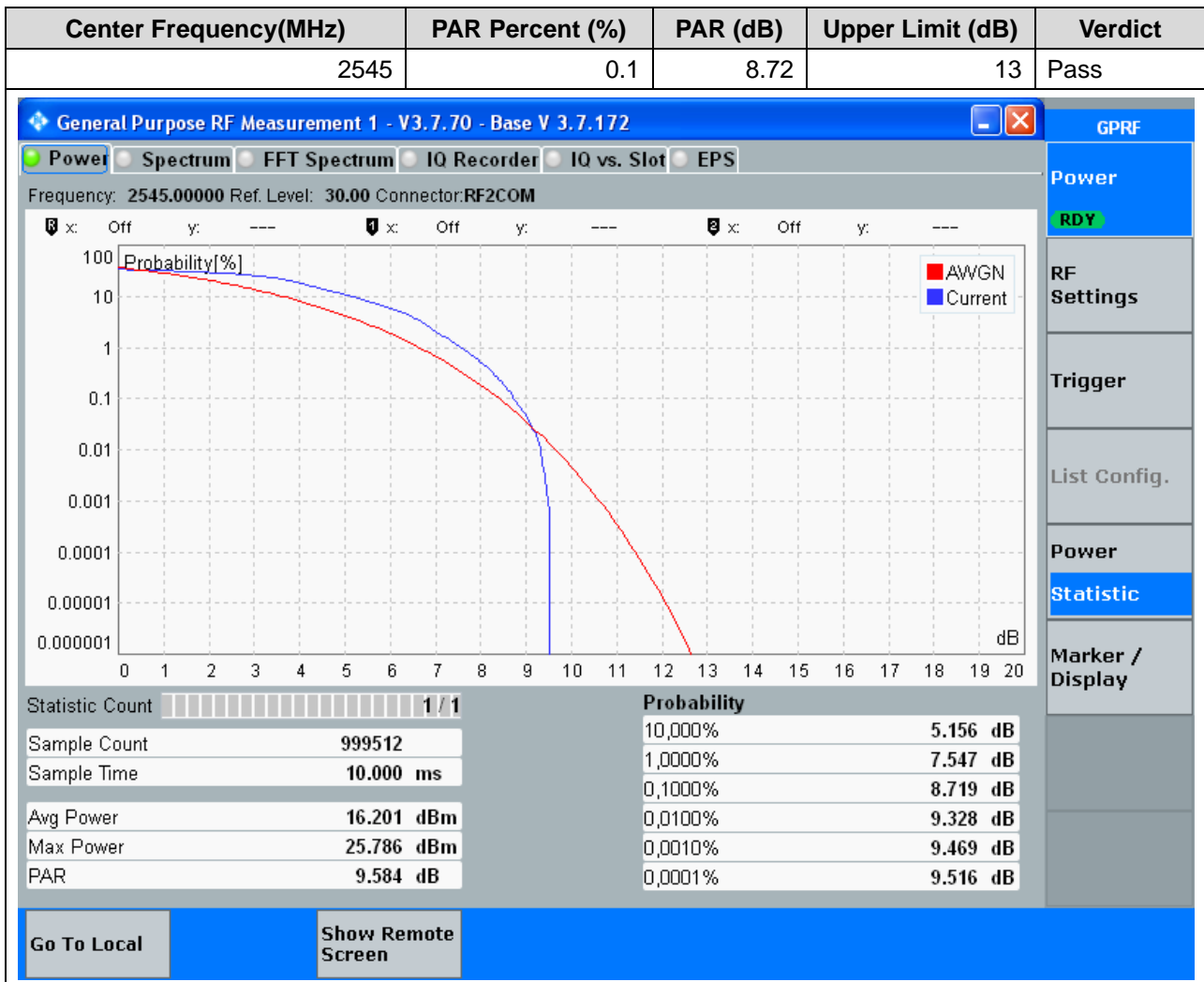


**8.12. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:12, Channel:38150, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

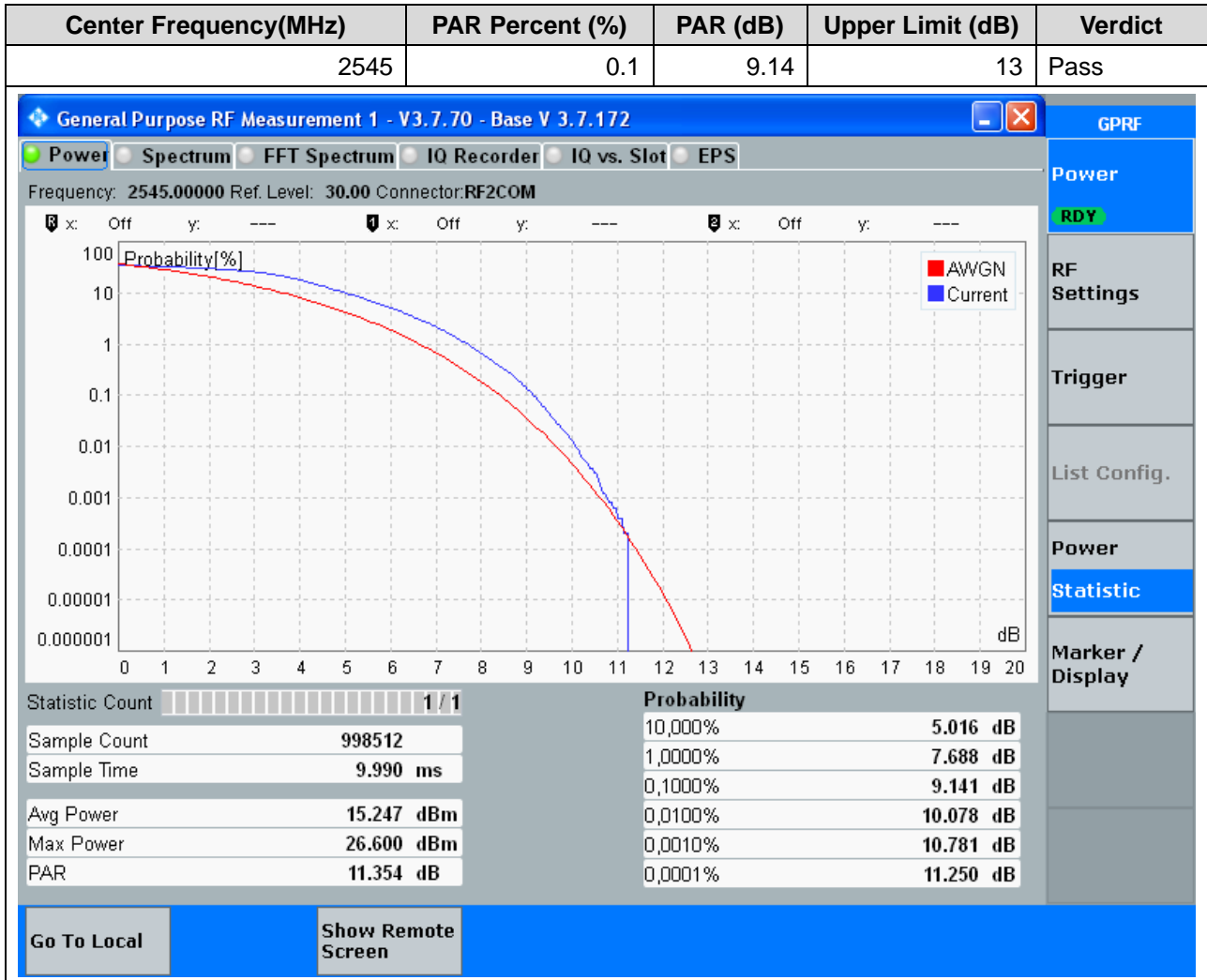


## 9. LTE\_Band41 120M

### 9.1. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:1, Channel:40140, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

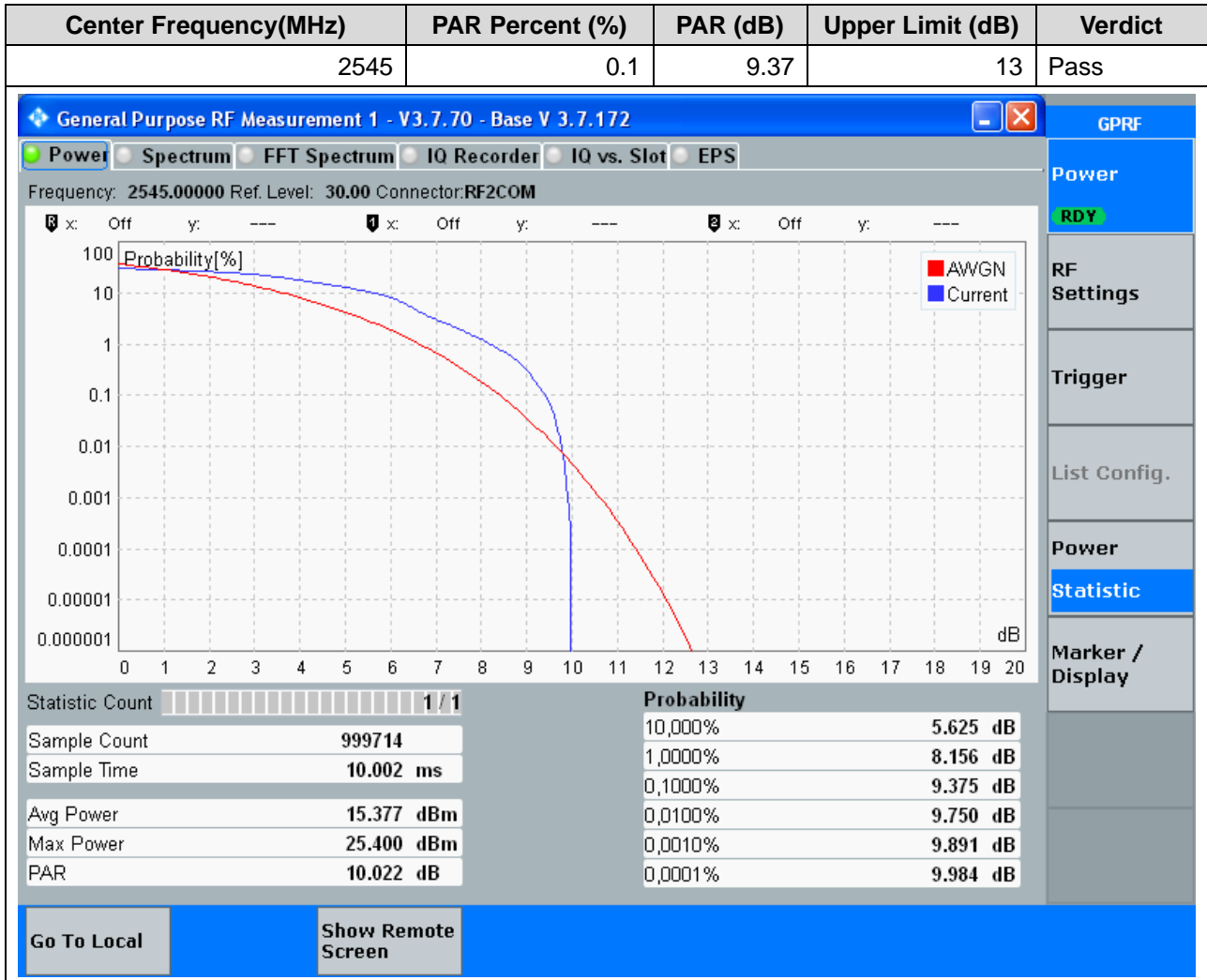


**9.2. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:2, Channel:40140, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

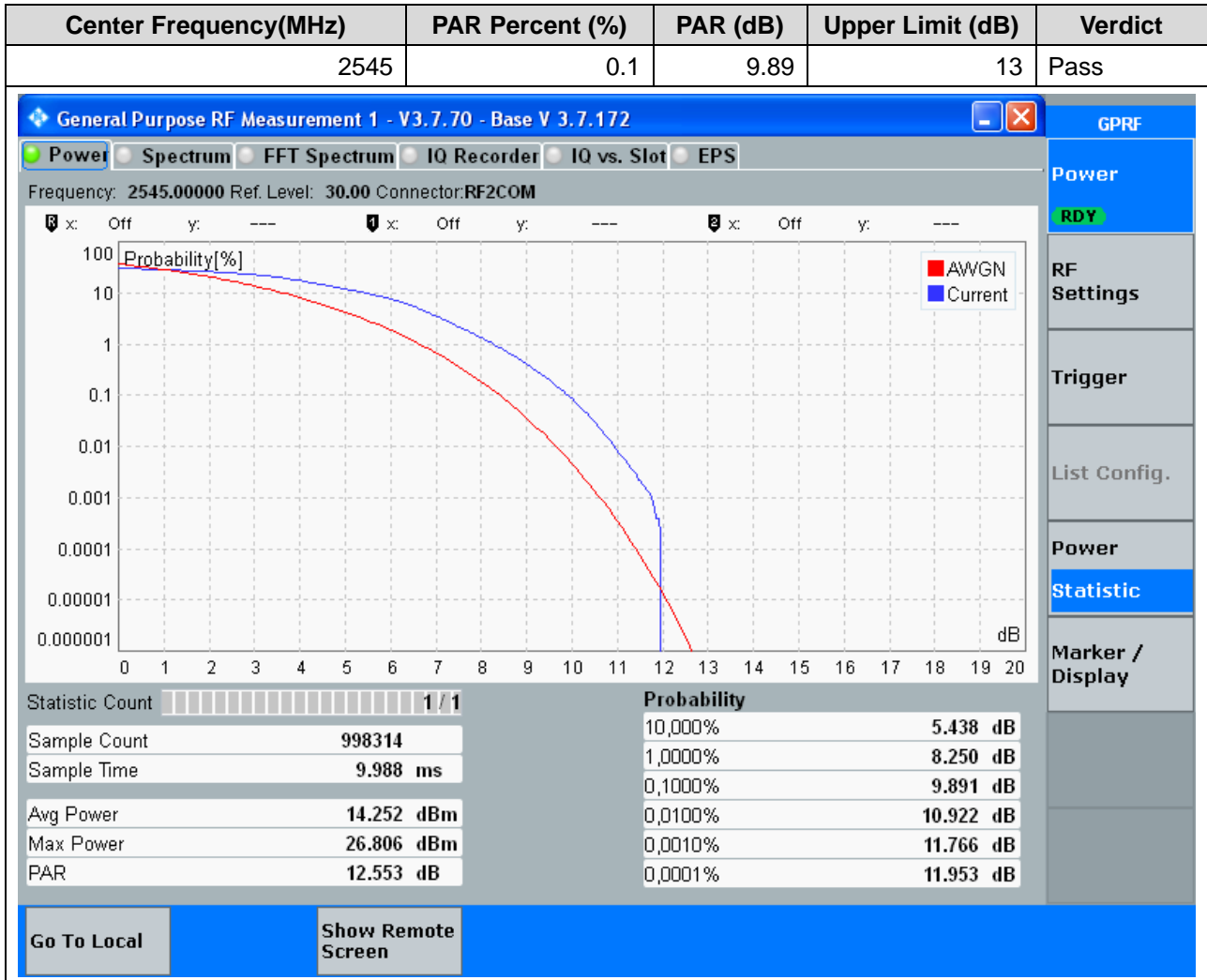




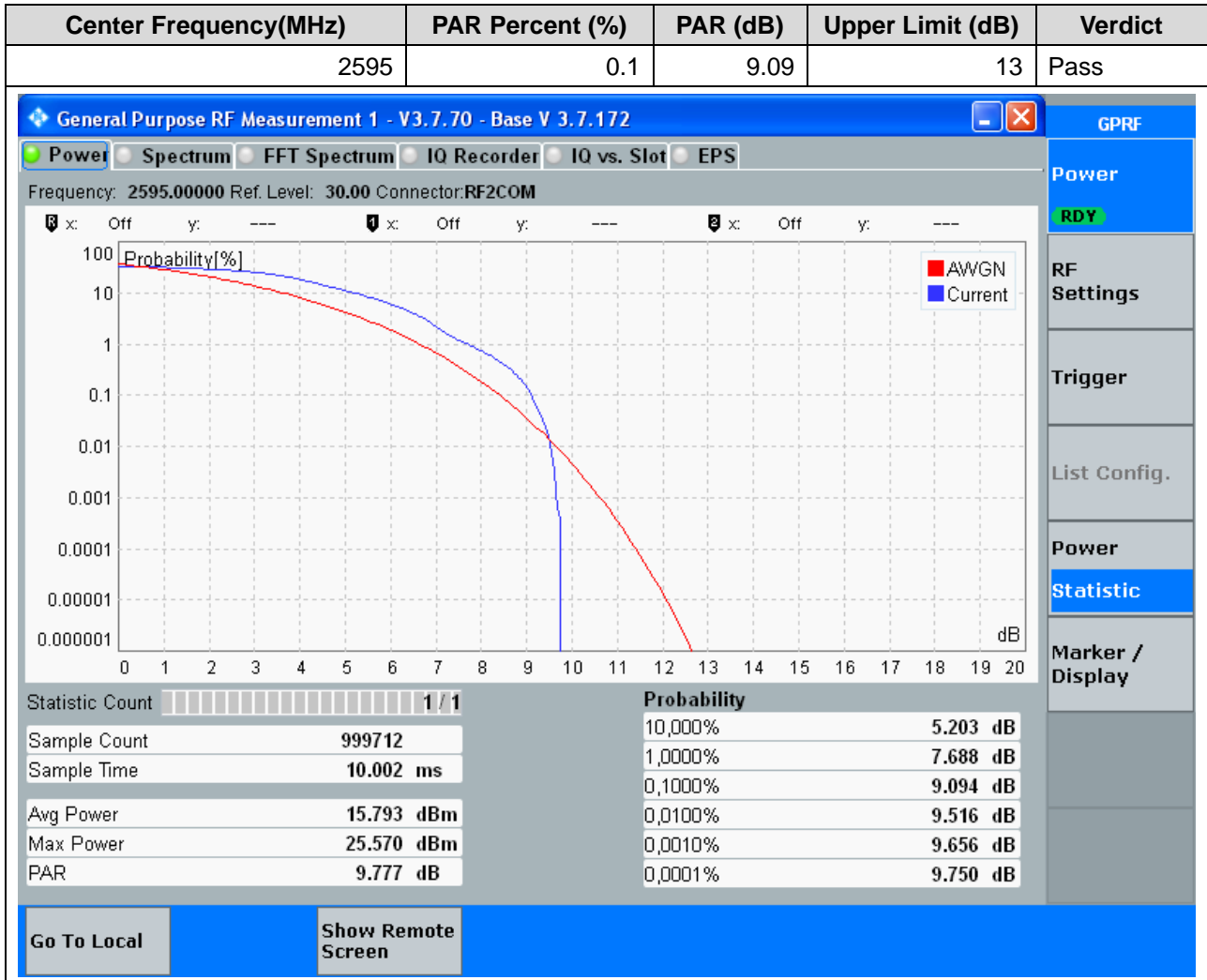
### 9.3. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:3, Channel:40140, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



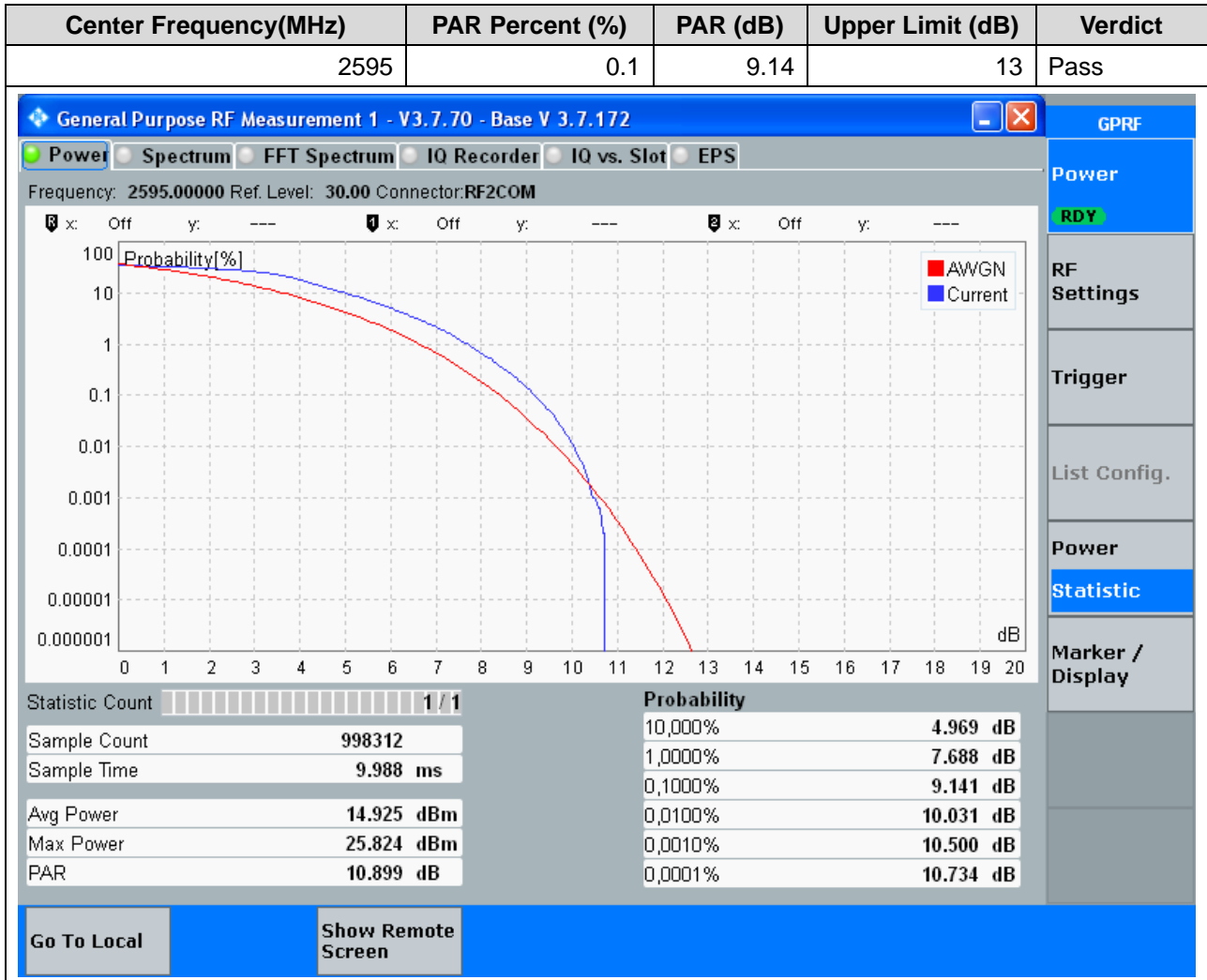
**9.4. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:4, Channel:40140, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



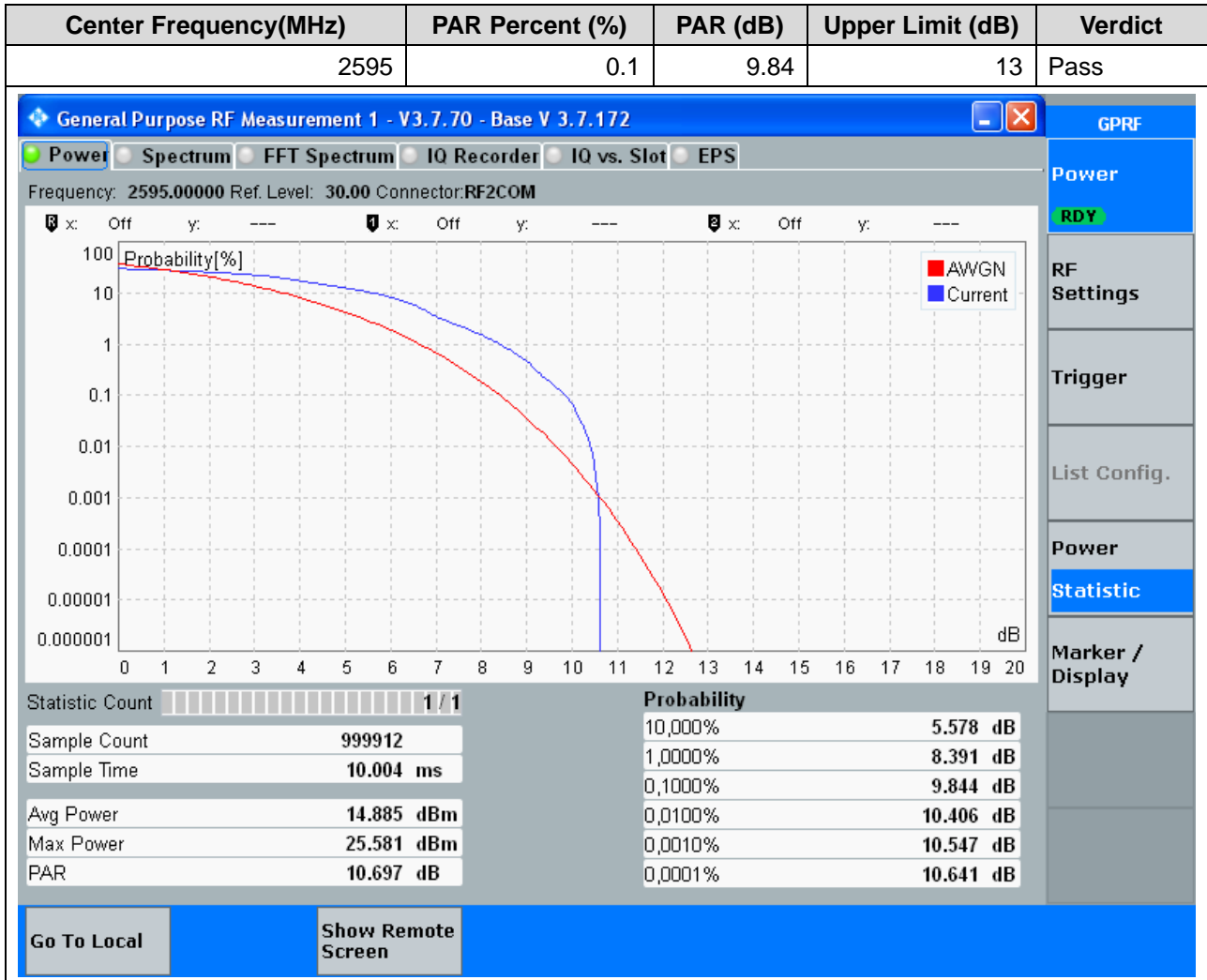
**9.5. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:5, Channel:40640, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)**



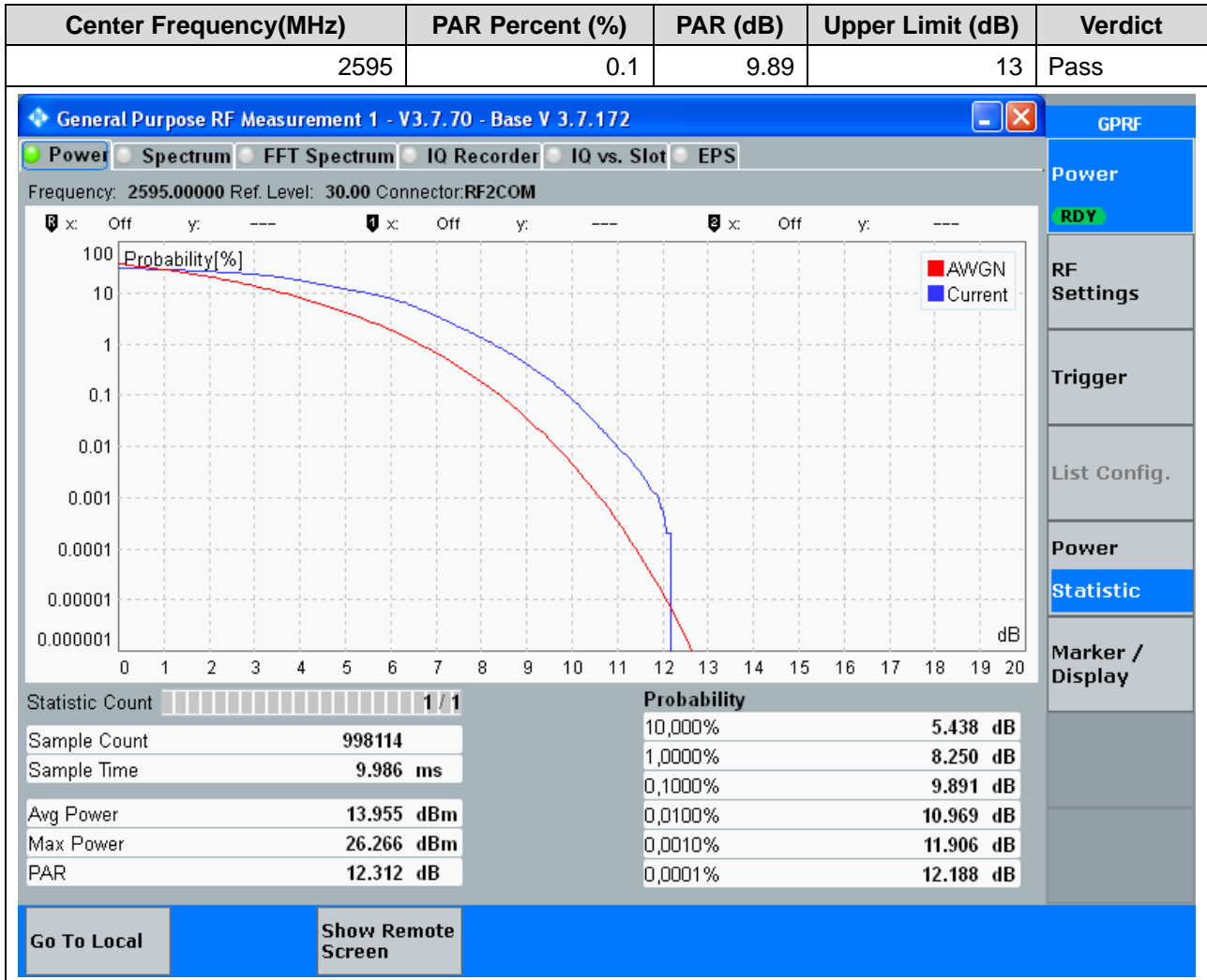
**9.6. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:6, Channel:40640, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



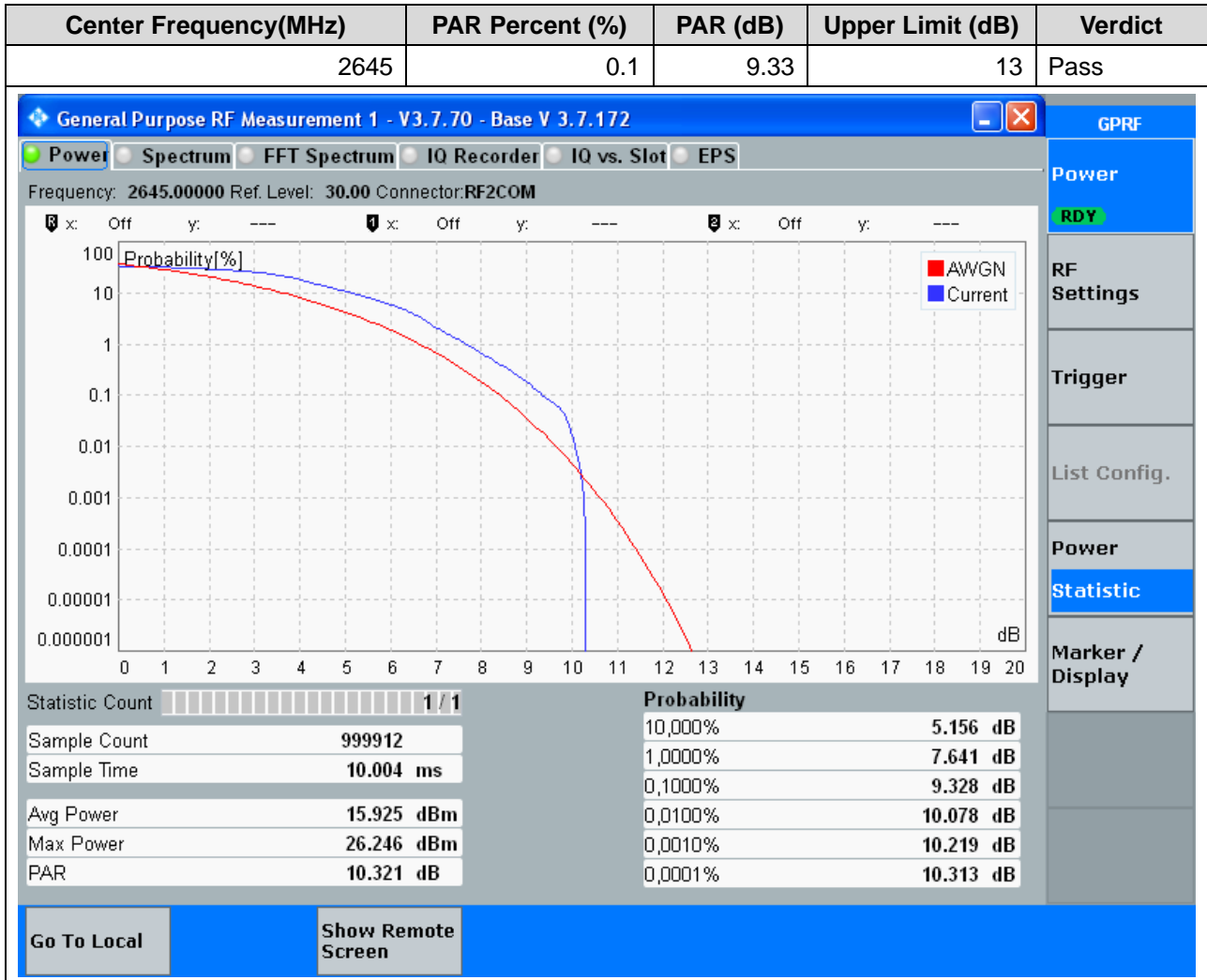
**9.7. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:7, Channel:40640, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)**



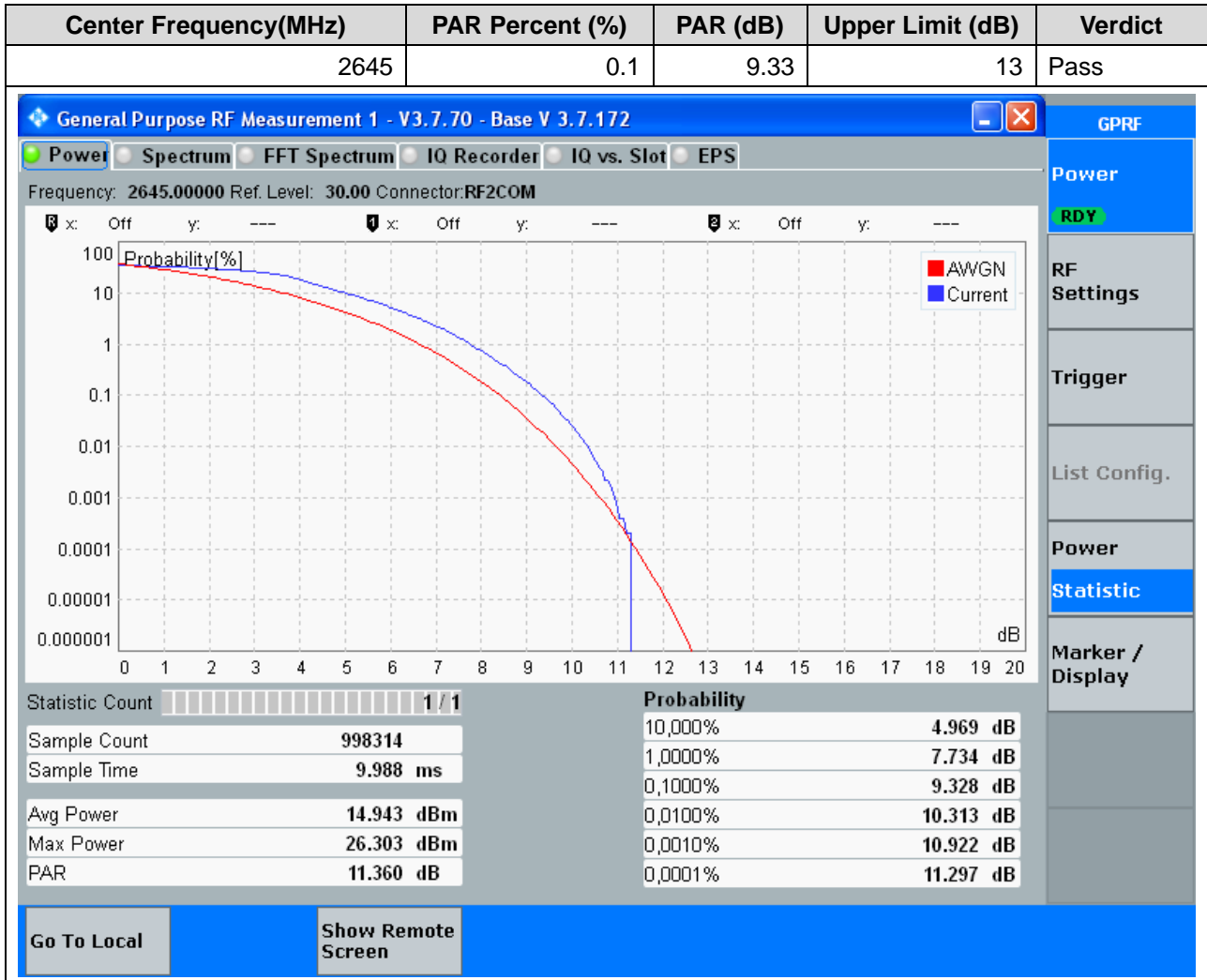
**9.8. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:8, Channel:40640, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



### 9.9. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:9, Channel:41140, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

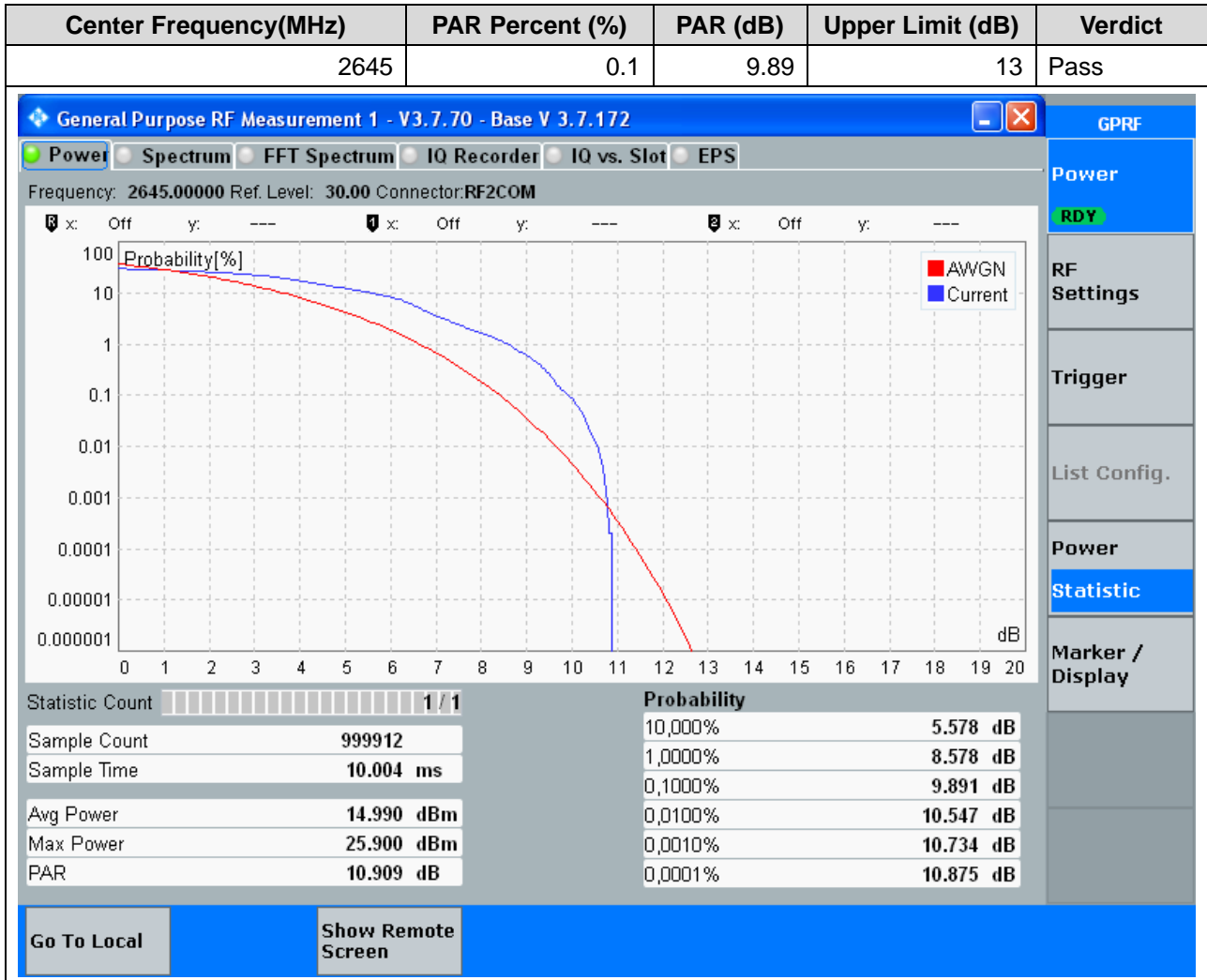


**9.10. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:10, Channel:41140, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

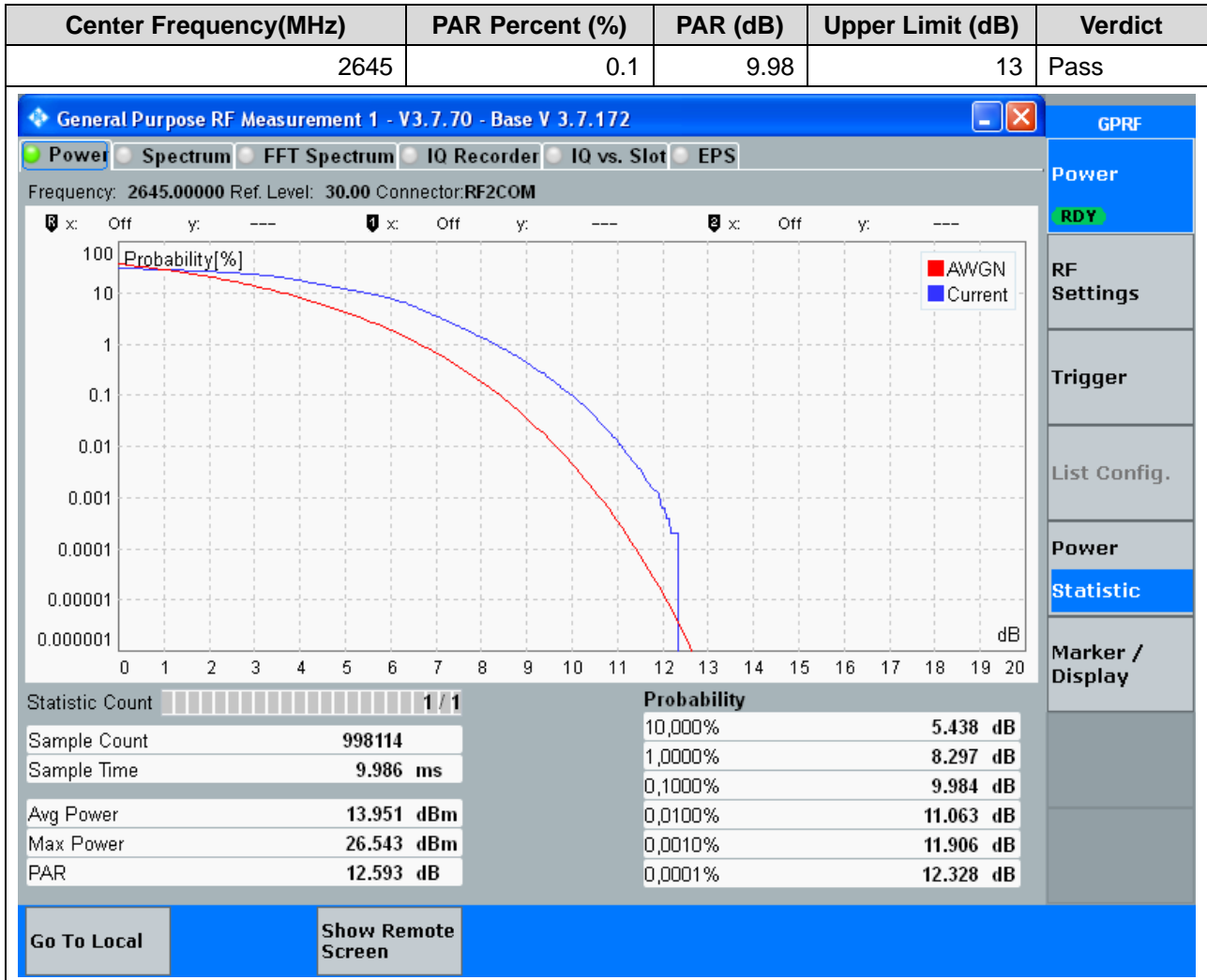




**9.11. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:11, Channel:41140, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)**

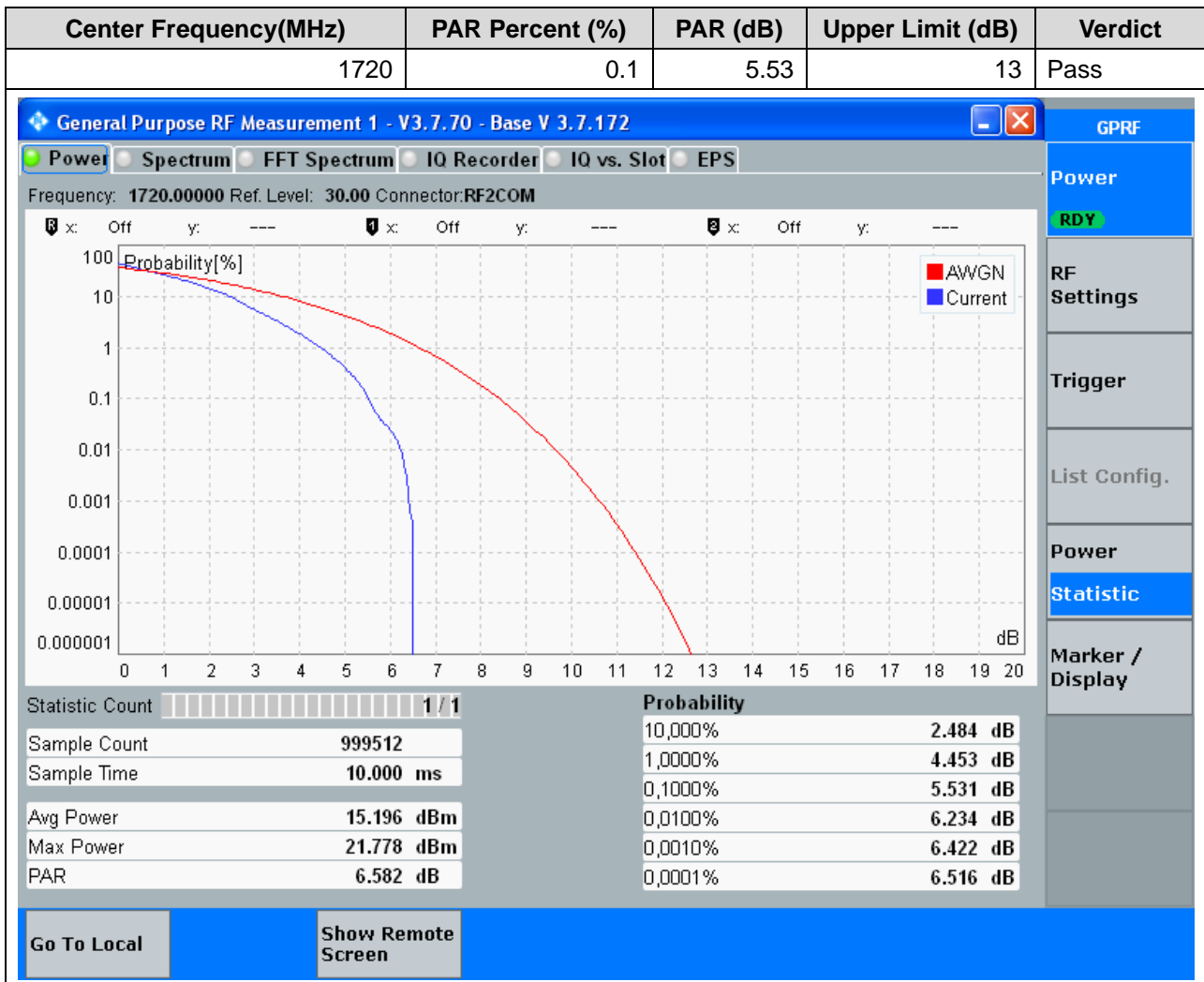


**9.12. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:12, Channel:41140, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

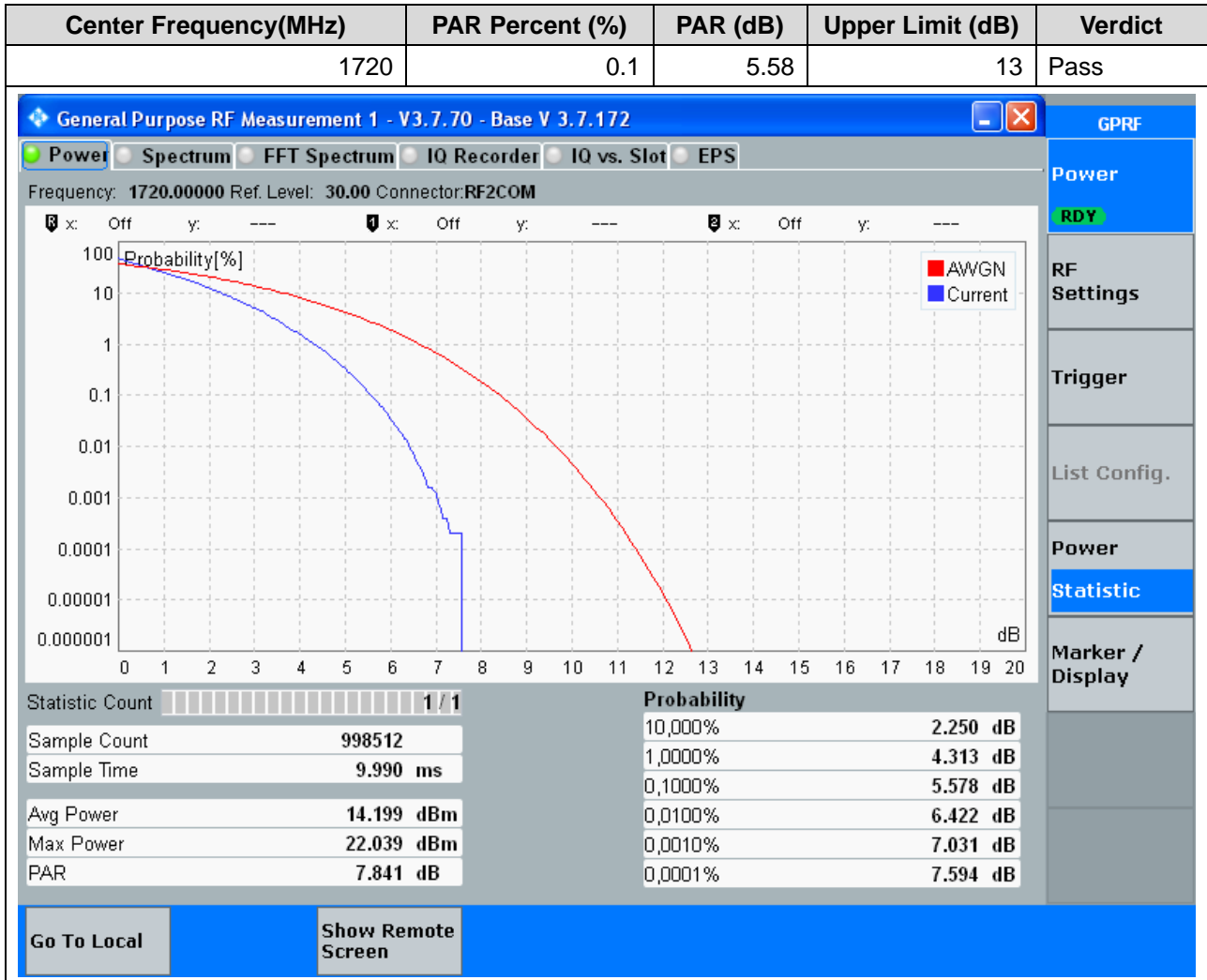


## 7. LTE\_Band66

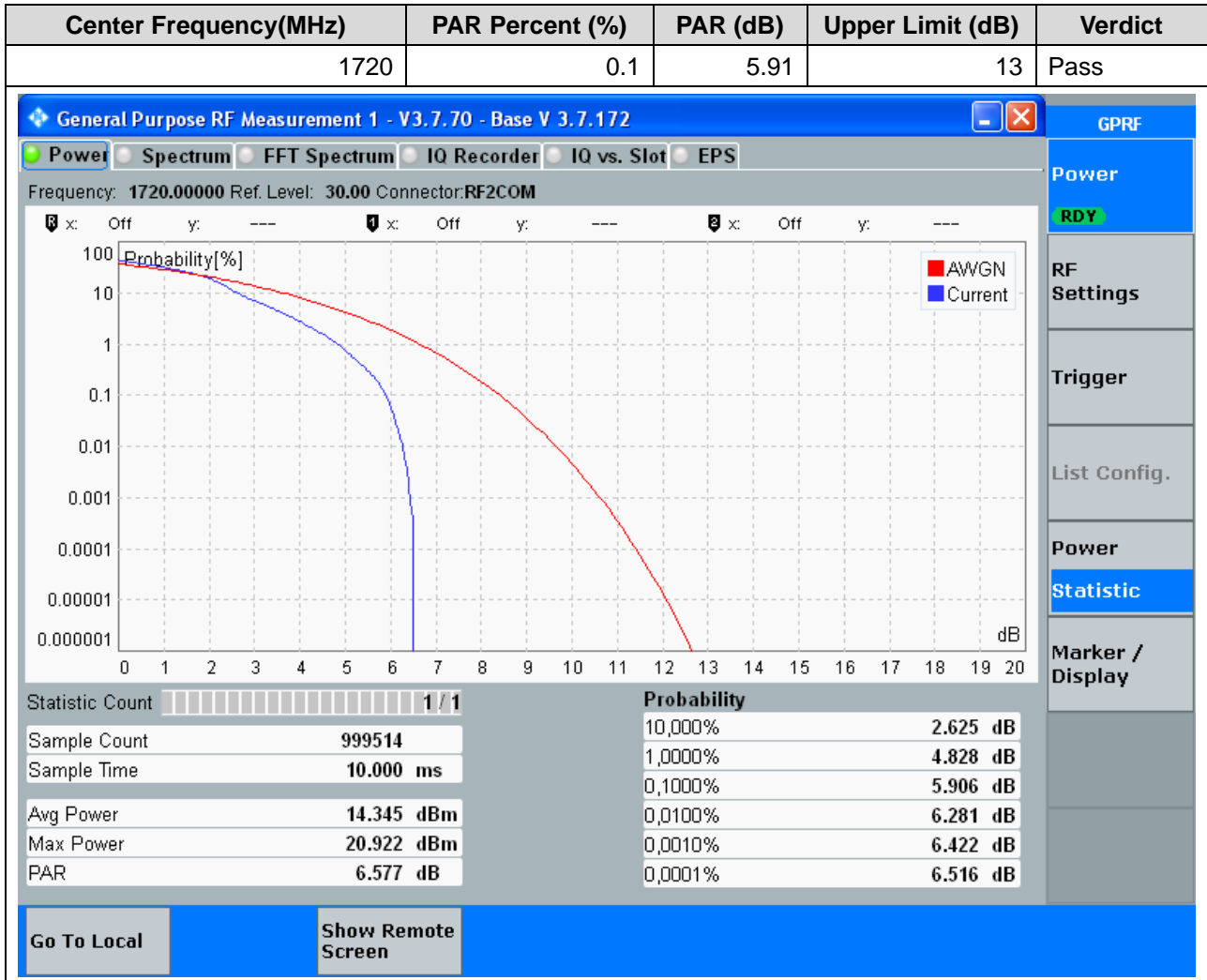
### 7.1. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:1, Channel:132072, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)



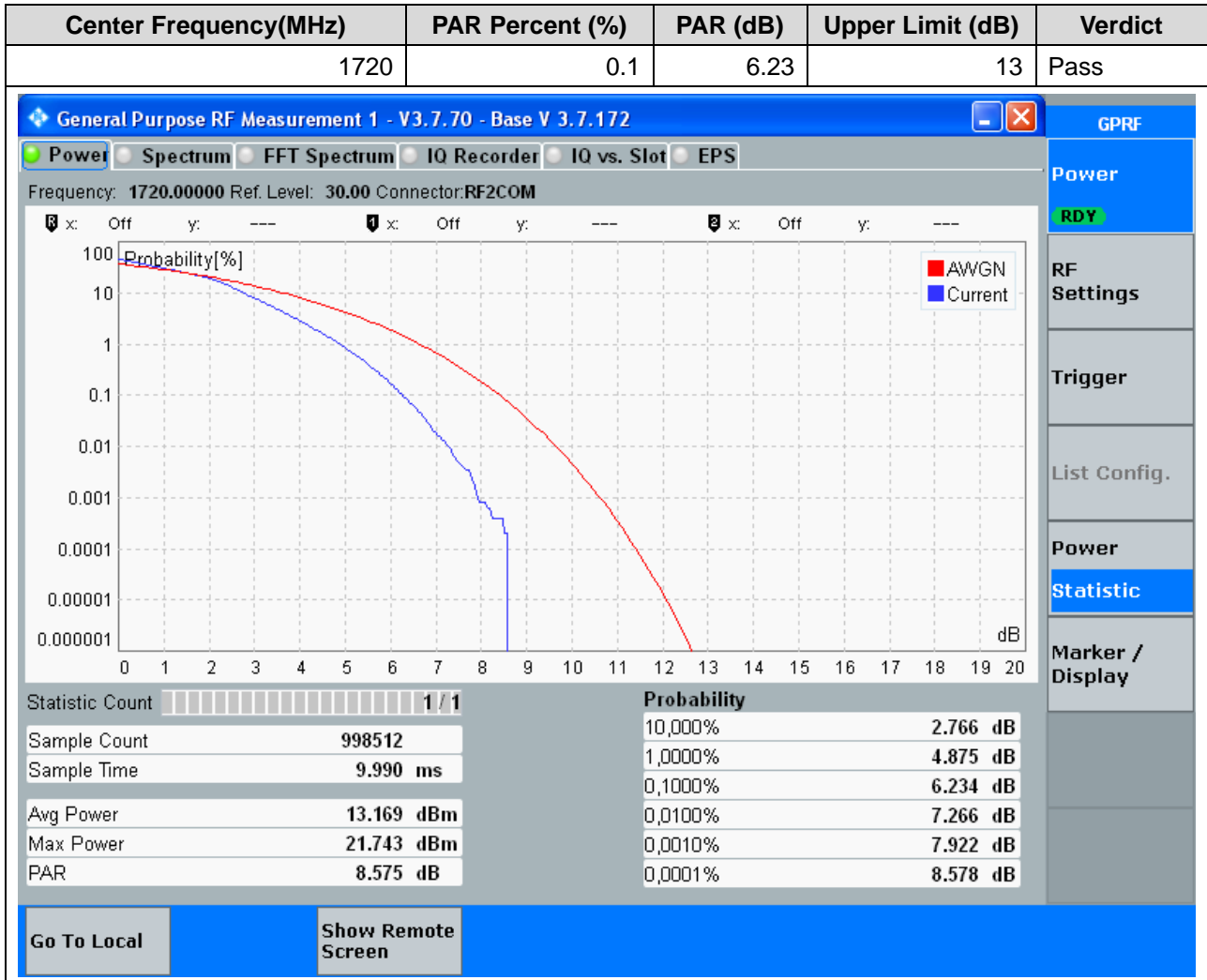
**7.2. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:2, Channel:132072, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



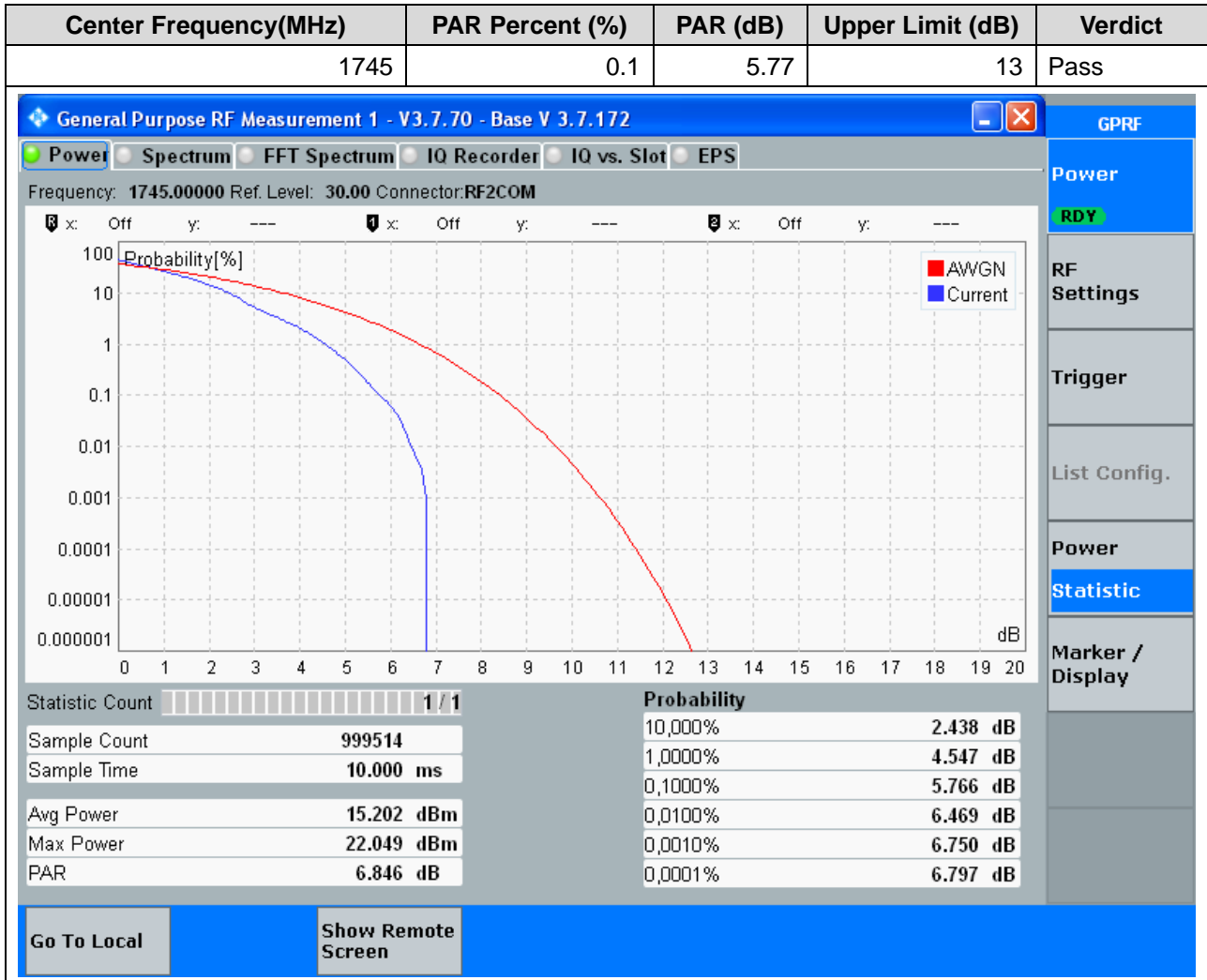
### 7.3. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:3, Channel:132072, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)



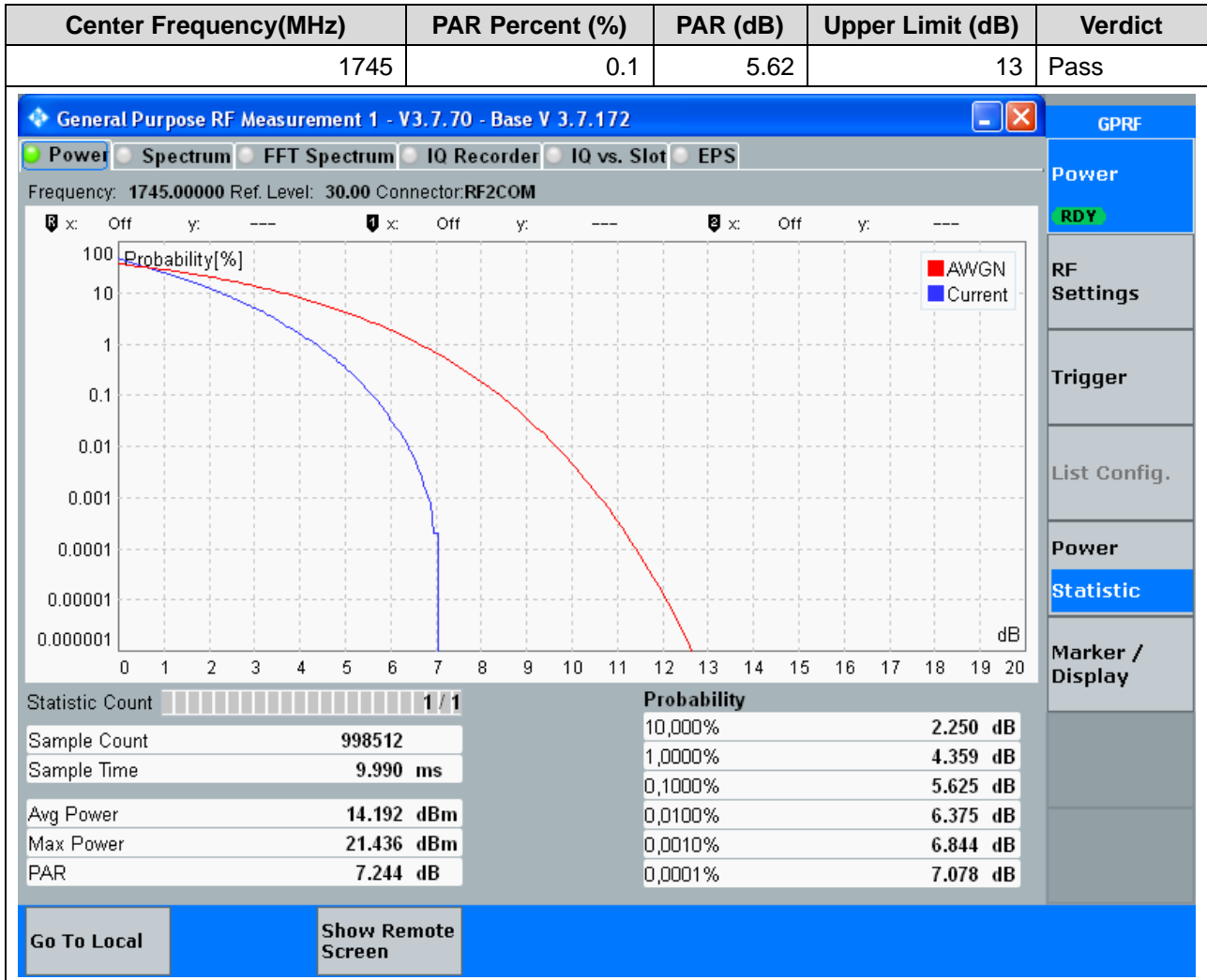
**7.4. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:4, Channel:132072, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



**7.5. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:5, Channel:132322, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)**

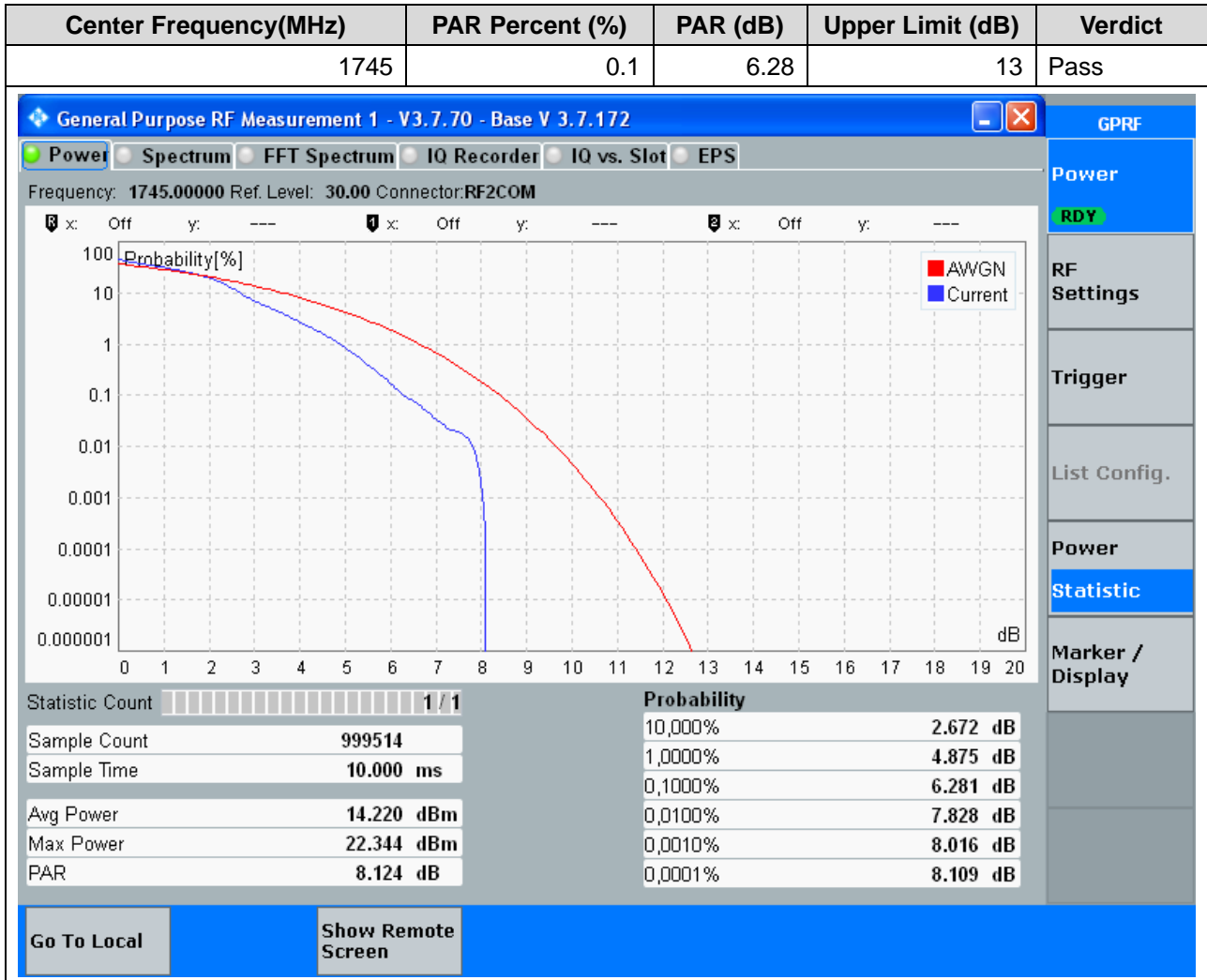


**7.6. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:6, Channel:132322, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

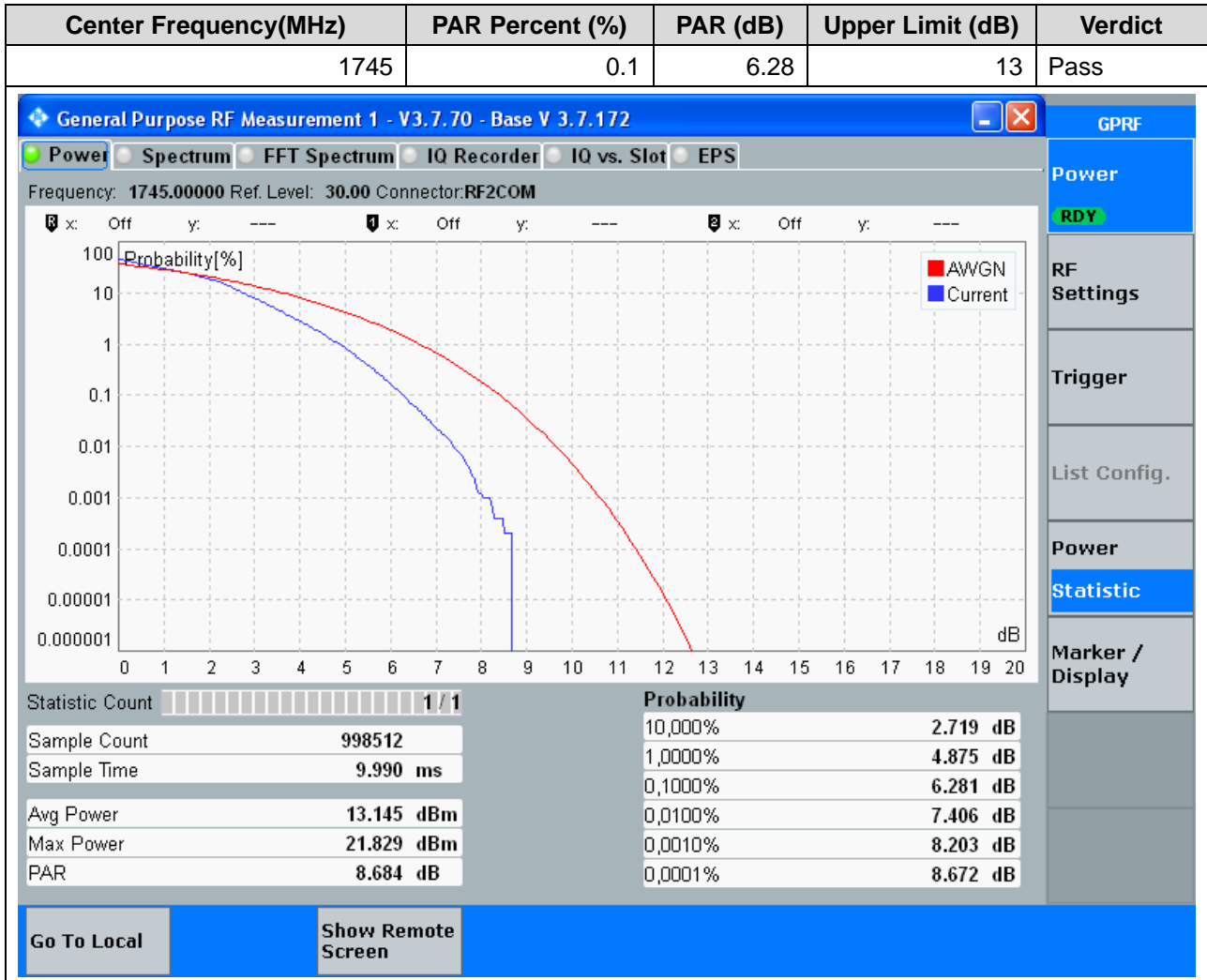




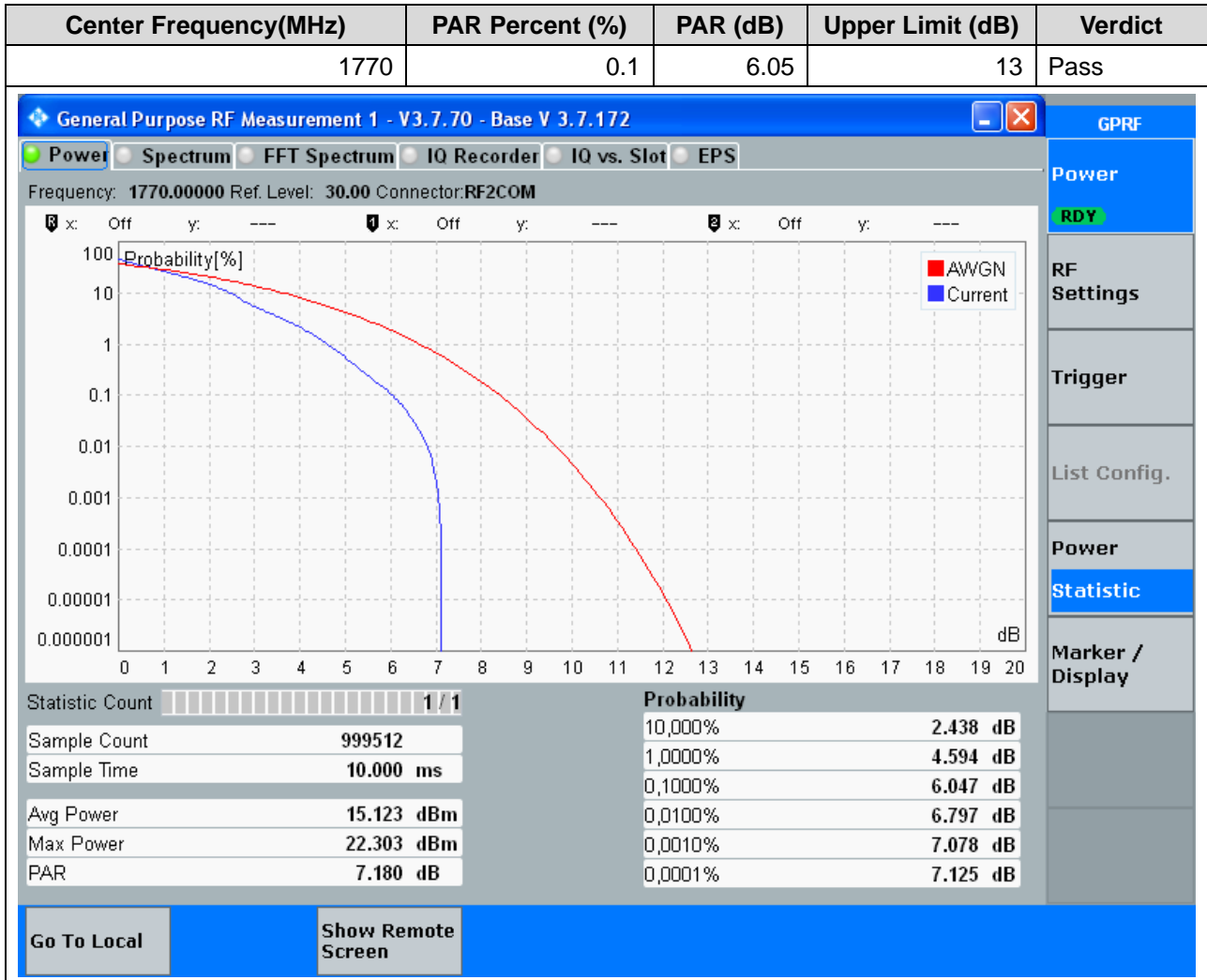
**7.7. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:7, Channel:132322, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)**



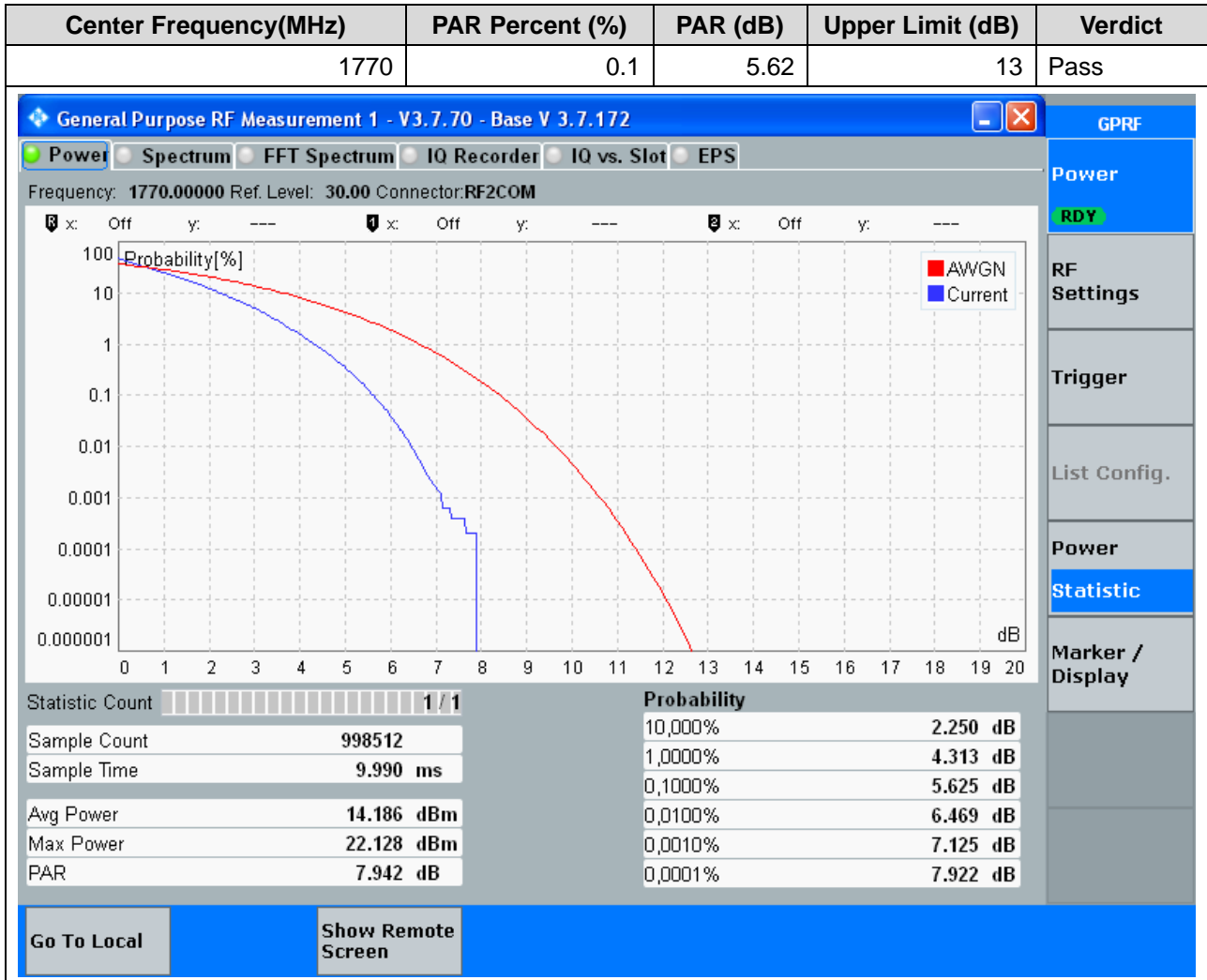
**7.8. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:8, Channel:132322, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



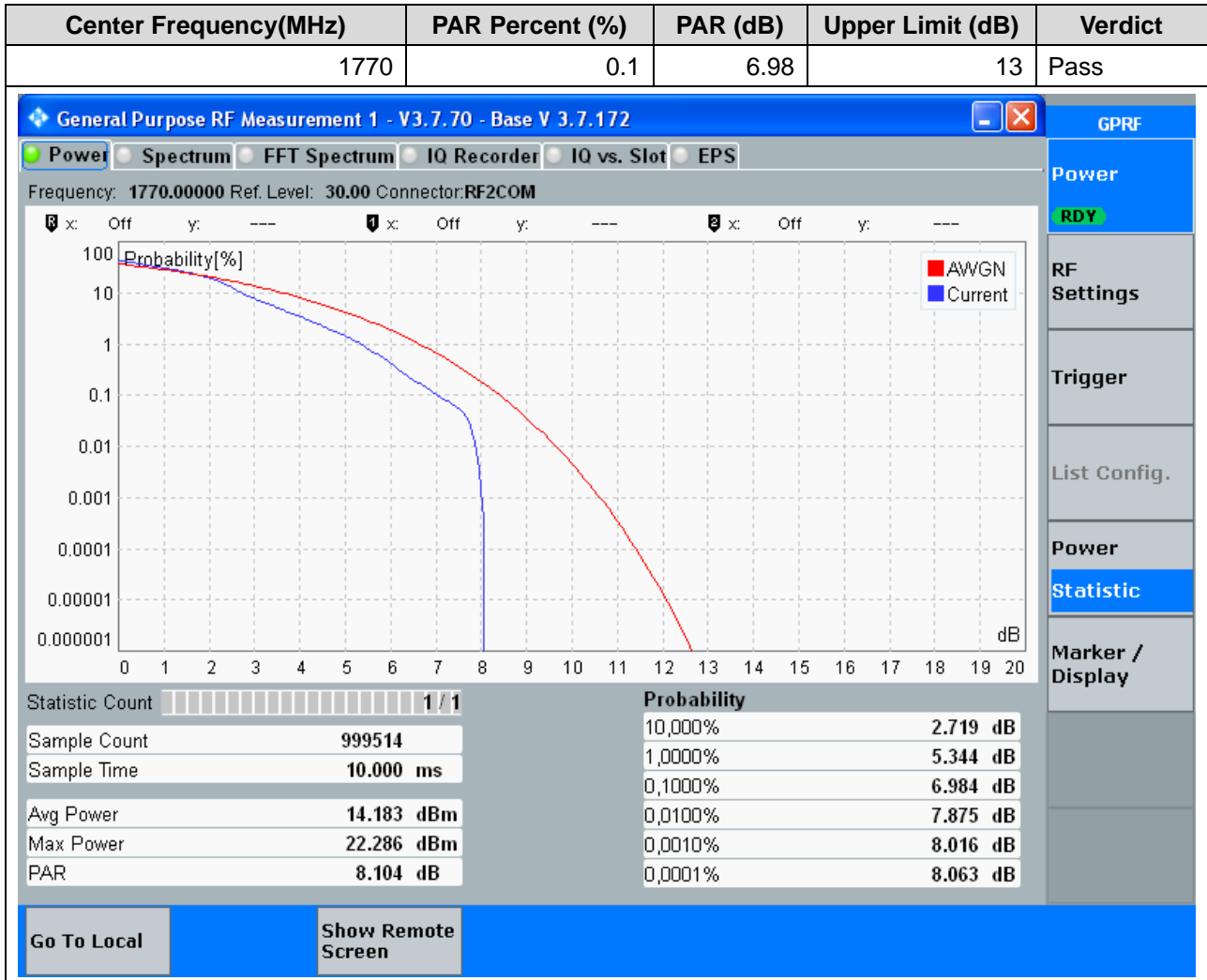
**7.9. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:9, Channel:132572, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)**



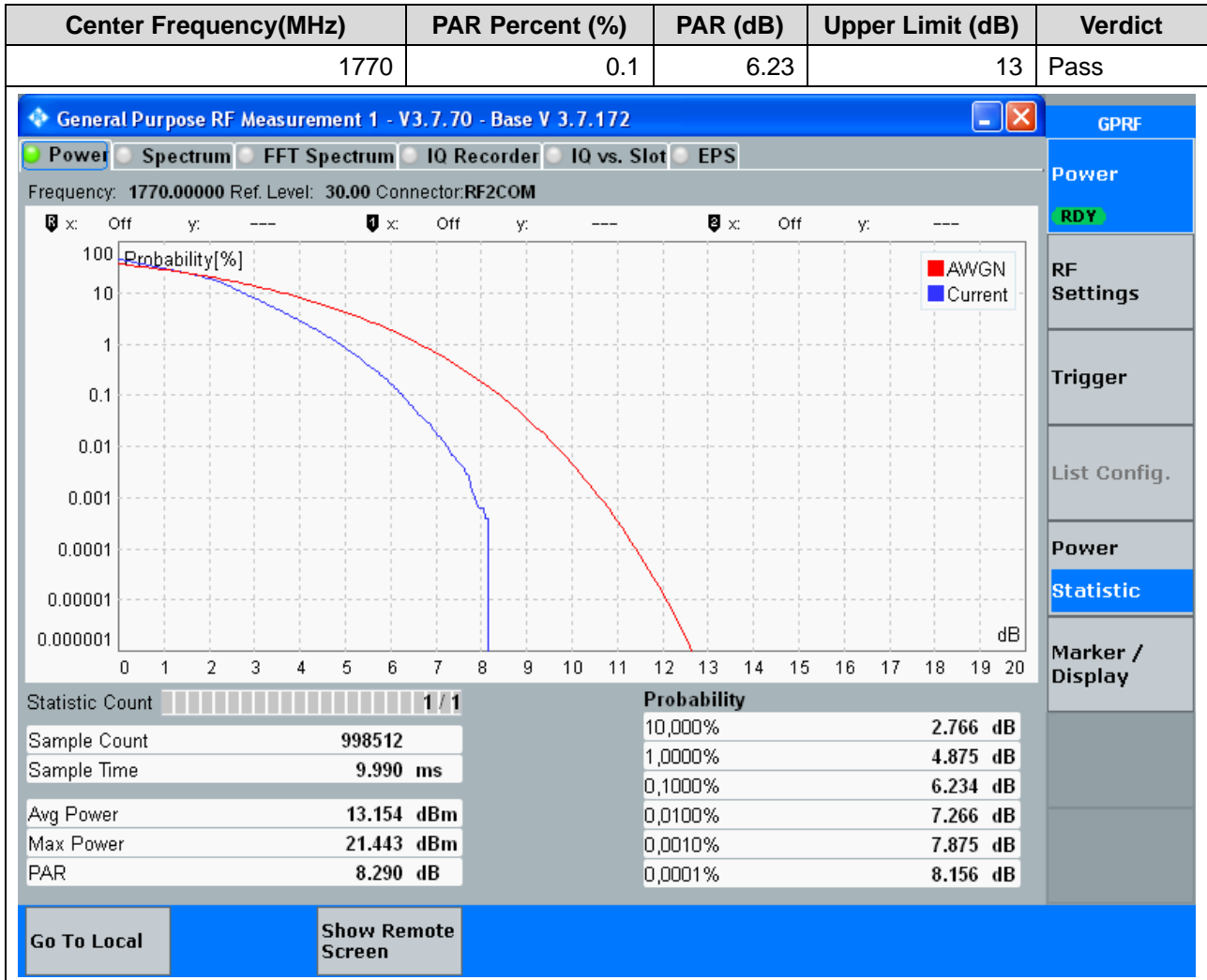
**7.10. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:10, Channel:132572, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



**7.11. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:11, Channel:132572, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)**

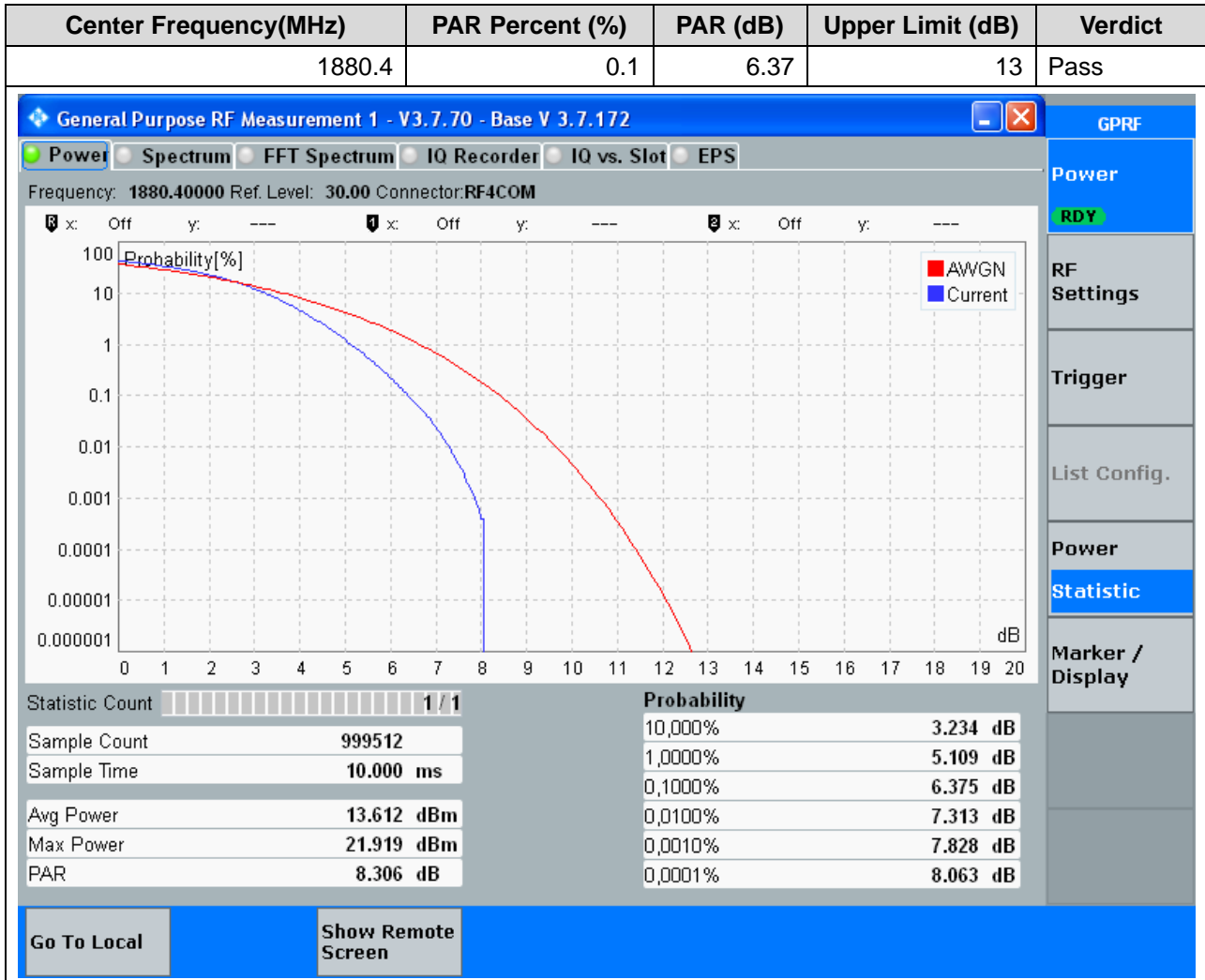


**7.12. LTE Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:12, Channel:132572, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

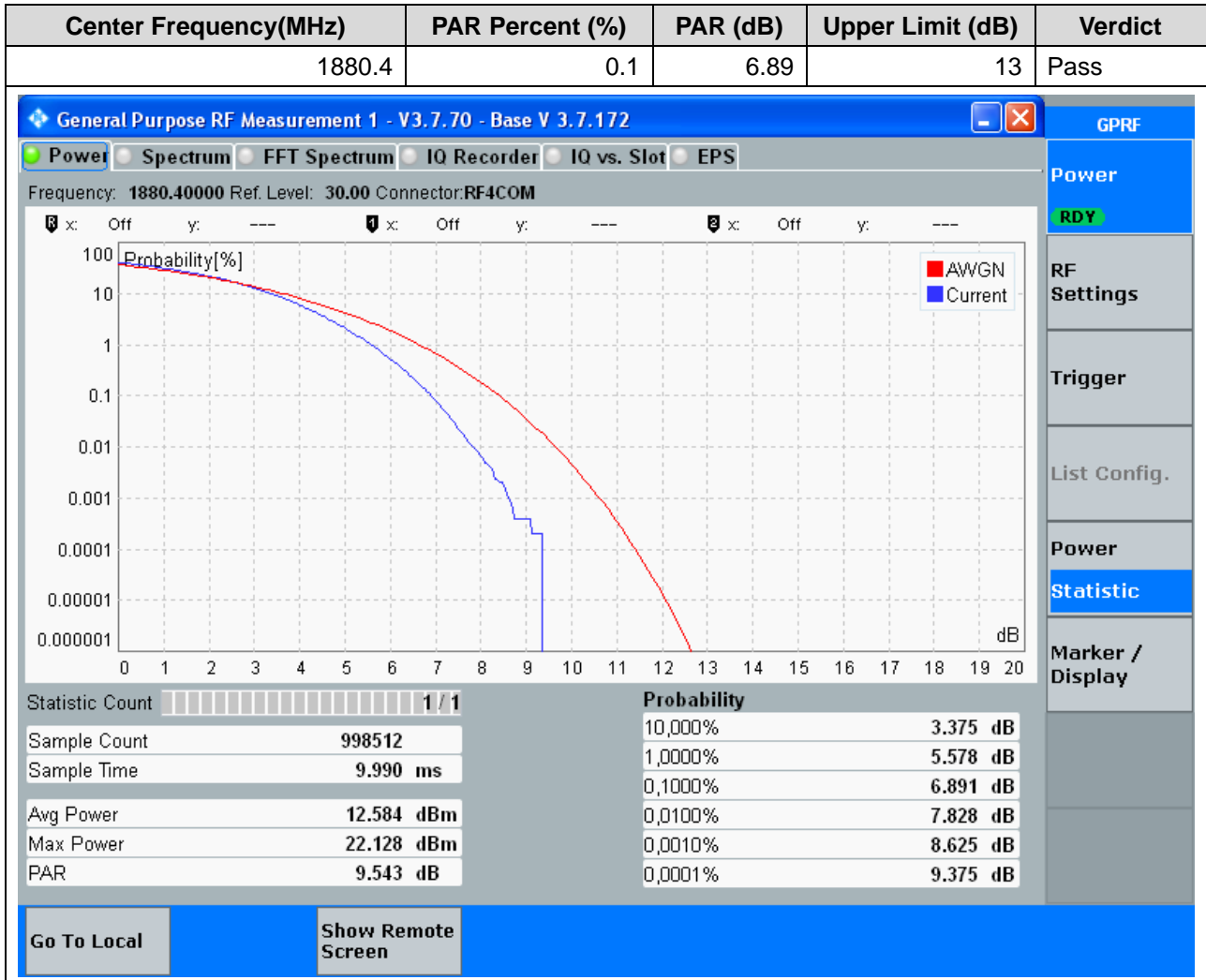


## 5. CA\_2C

5.1. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:1,  
Channel:18808|18925, Bandwidth:5|20MHz, Modulation:QPSK, RB  
Number:Full|Full, RB Position:Low|Low)

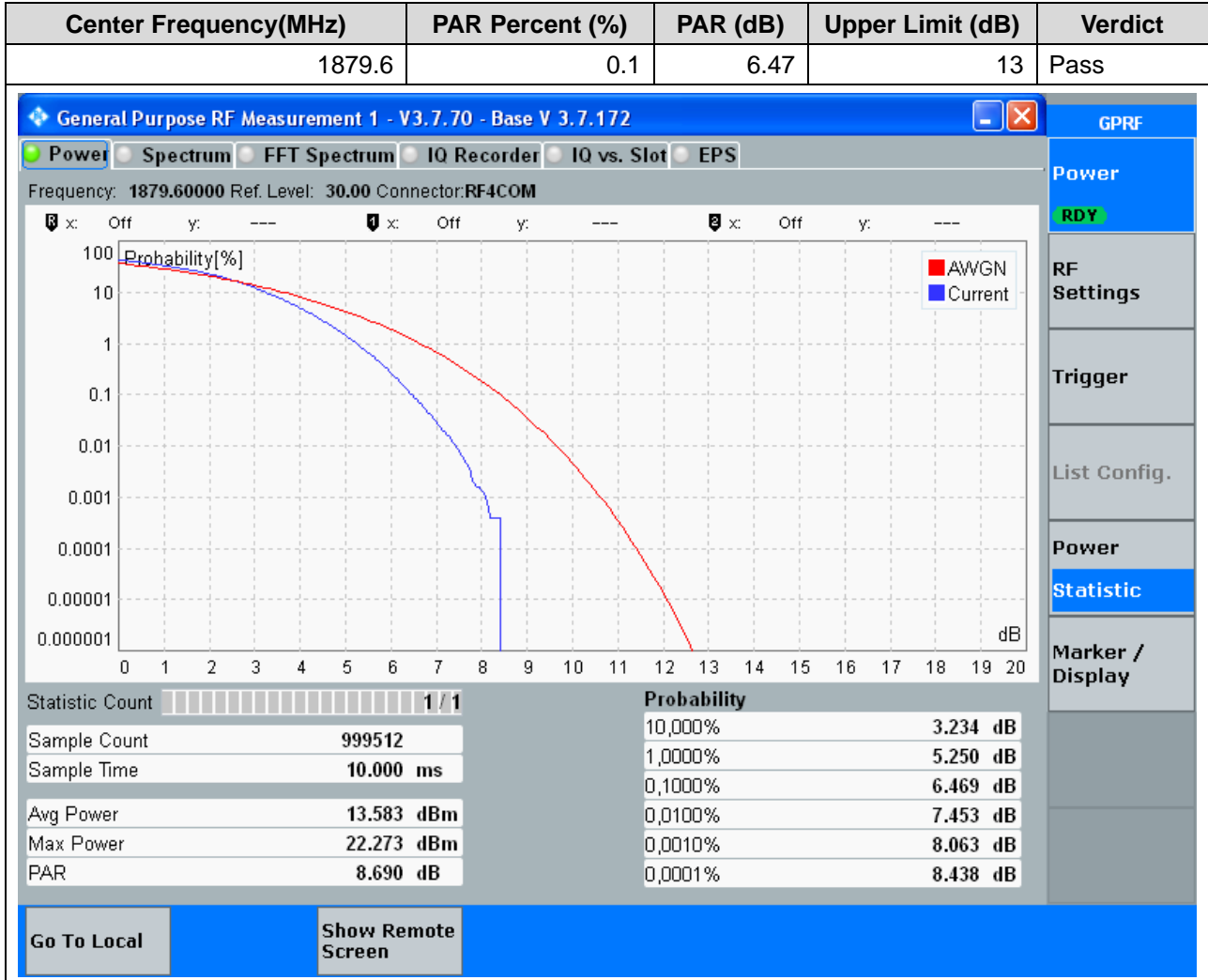


**5.2. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:2, Channel:18808|18925, Bandwidth:5|20MHz, Modulation:16QAM, RB Number:Full|Full, RB Position:Low|Low)**

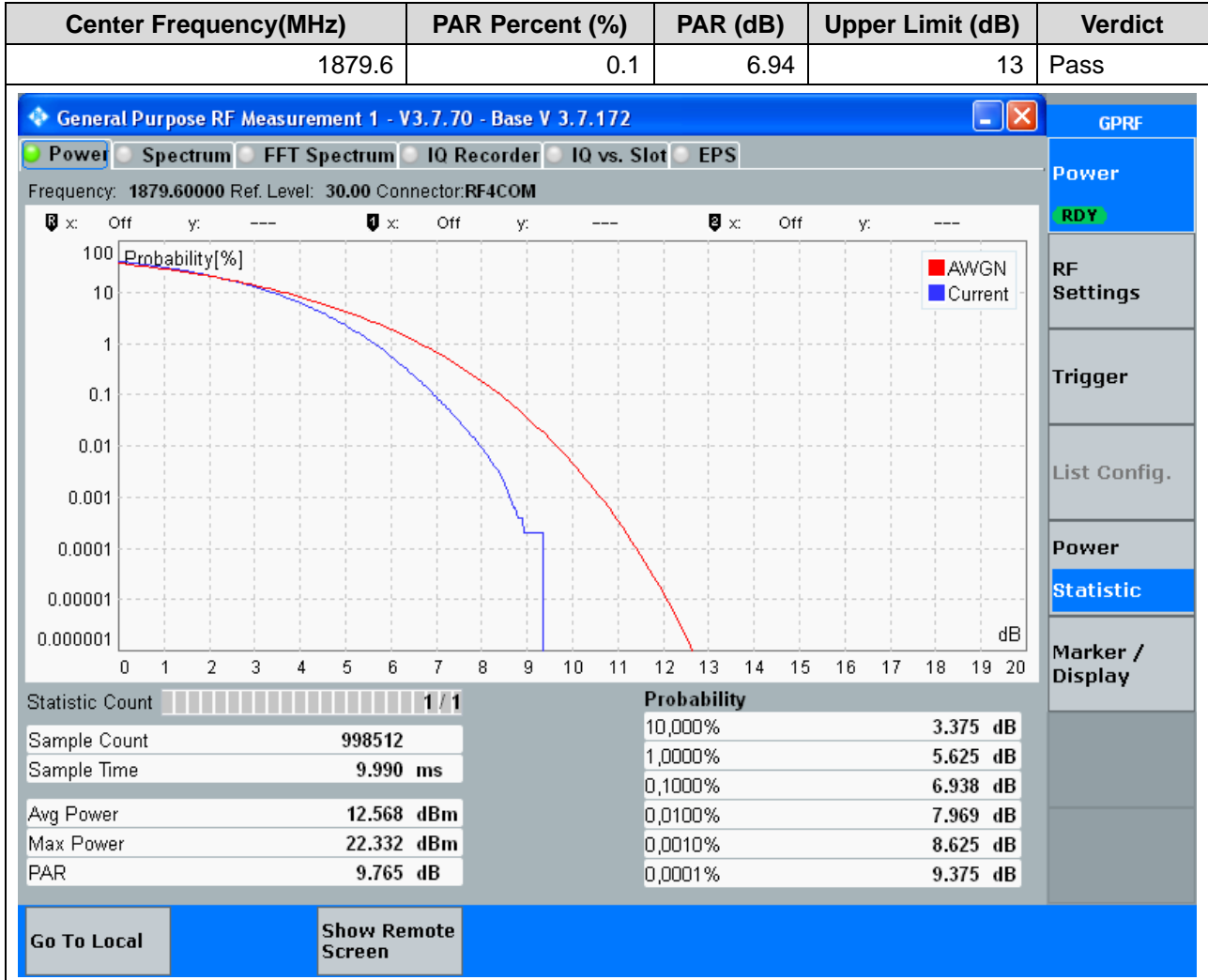




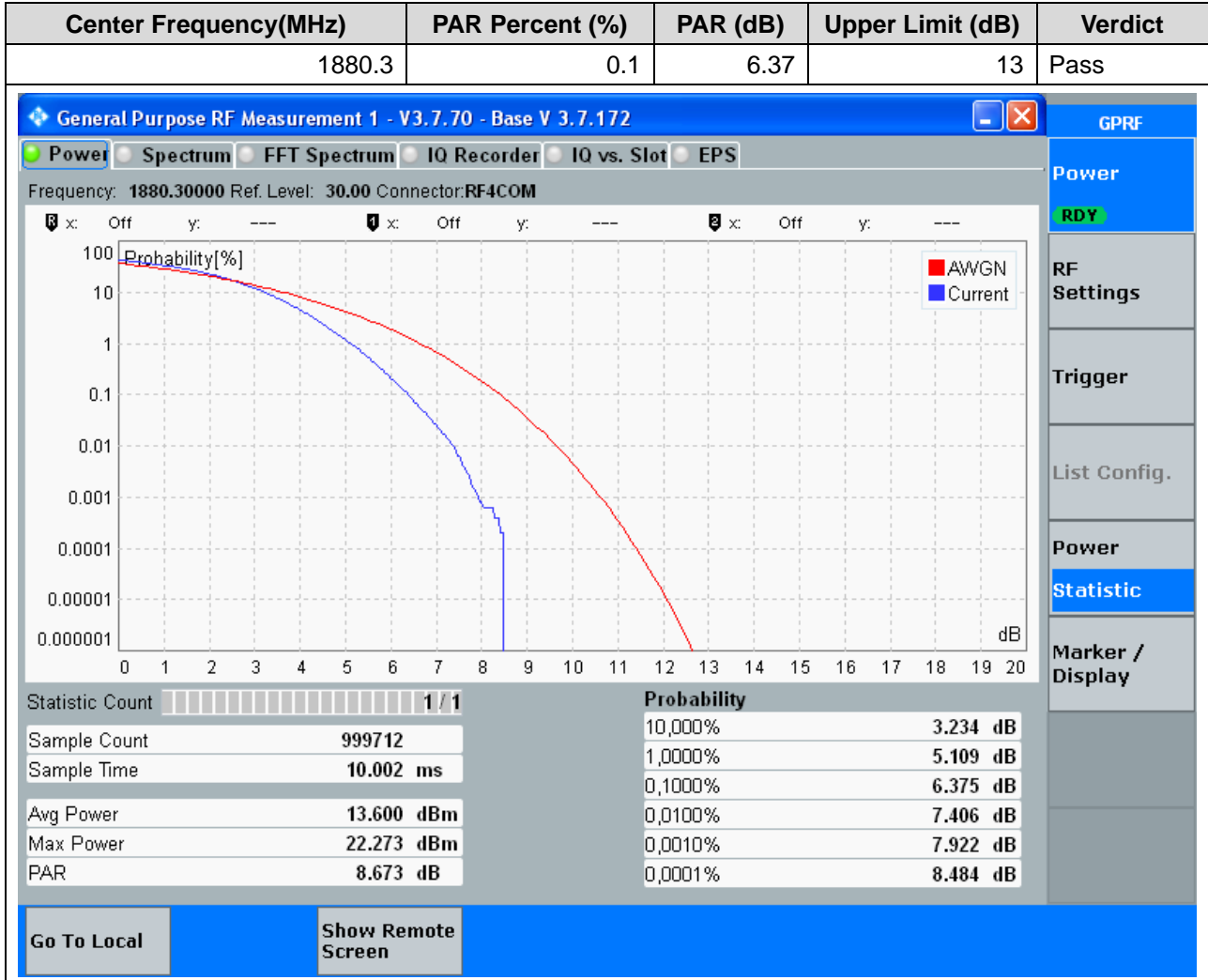
**5.3. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:3, Channel:18875|18992, Bandwidth:20|5MHz, Modulation:QPSK, RB Number:Full|Full, RB Position:Low|Low)**



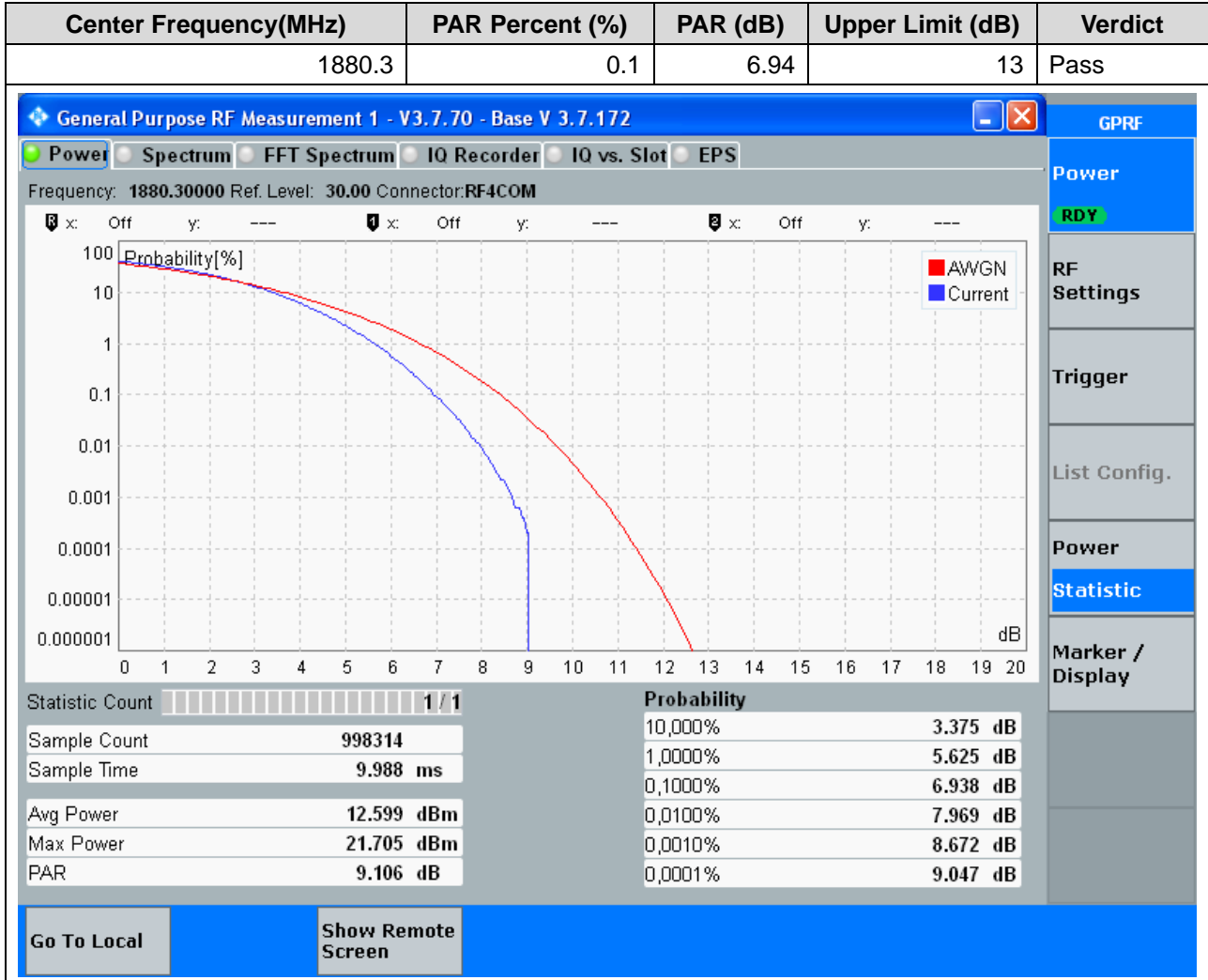
**5.4. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:4,  
Channel:18875|18992, Bandwidth:20|5MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**



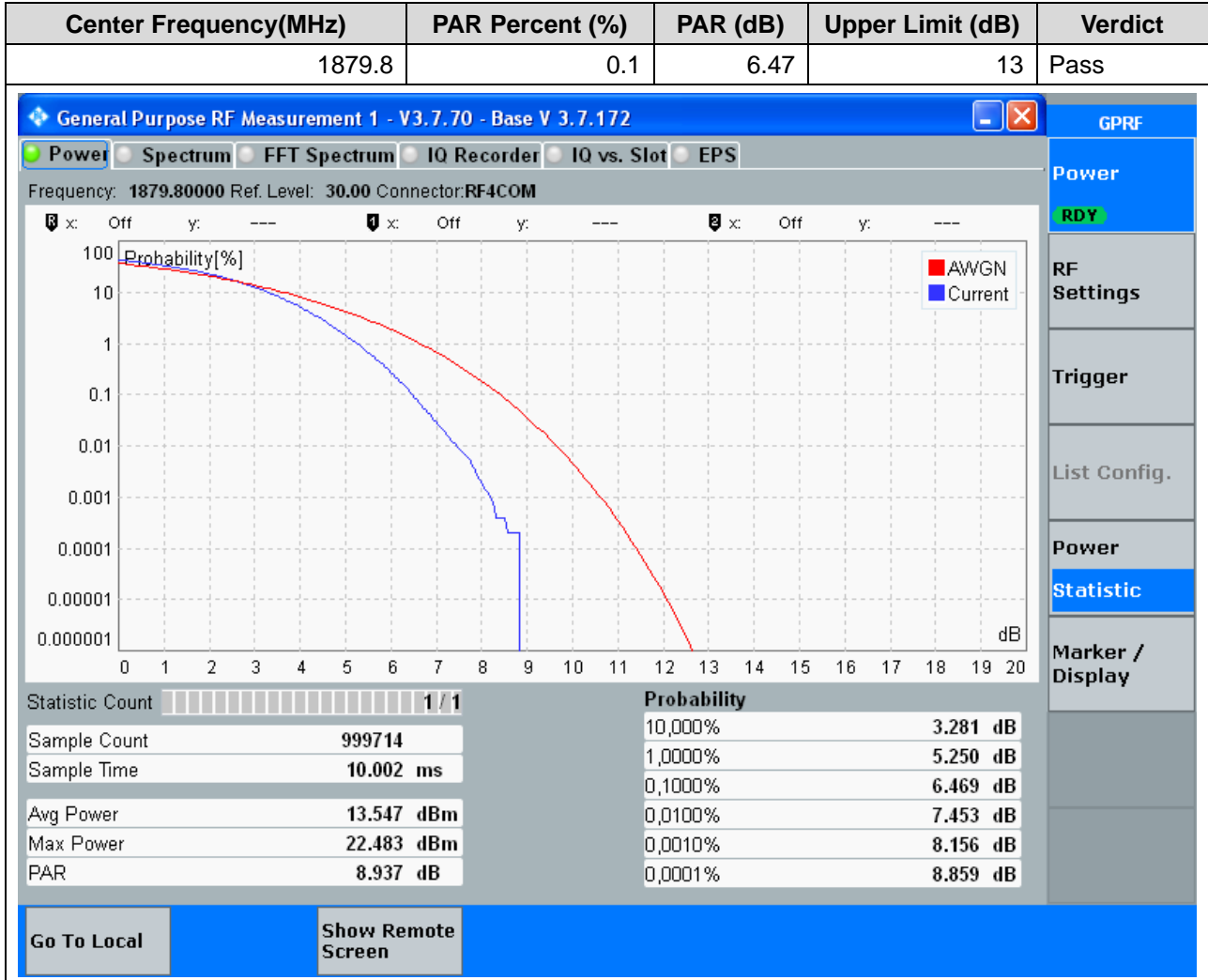
**5.5. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:5,  
Channel:18806|18950, Bandwidth:10|20MHz, Modulation:QPSK, RB  
Number:Full|Full, RB Position:Low|Low)**



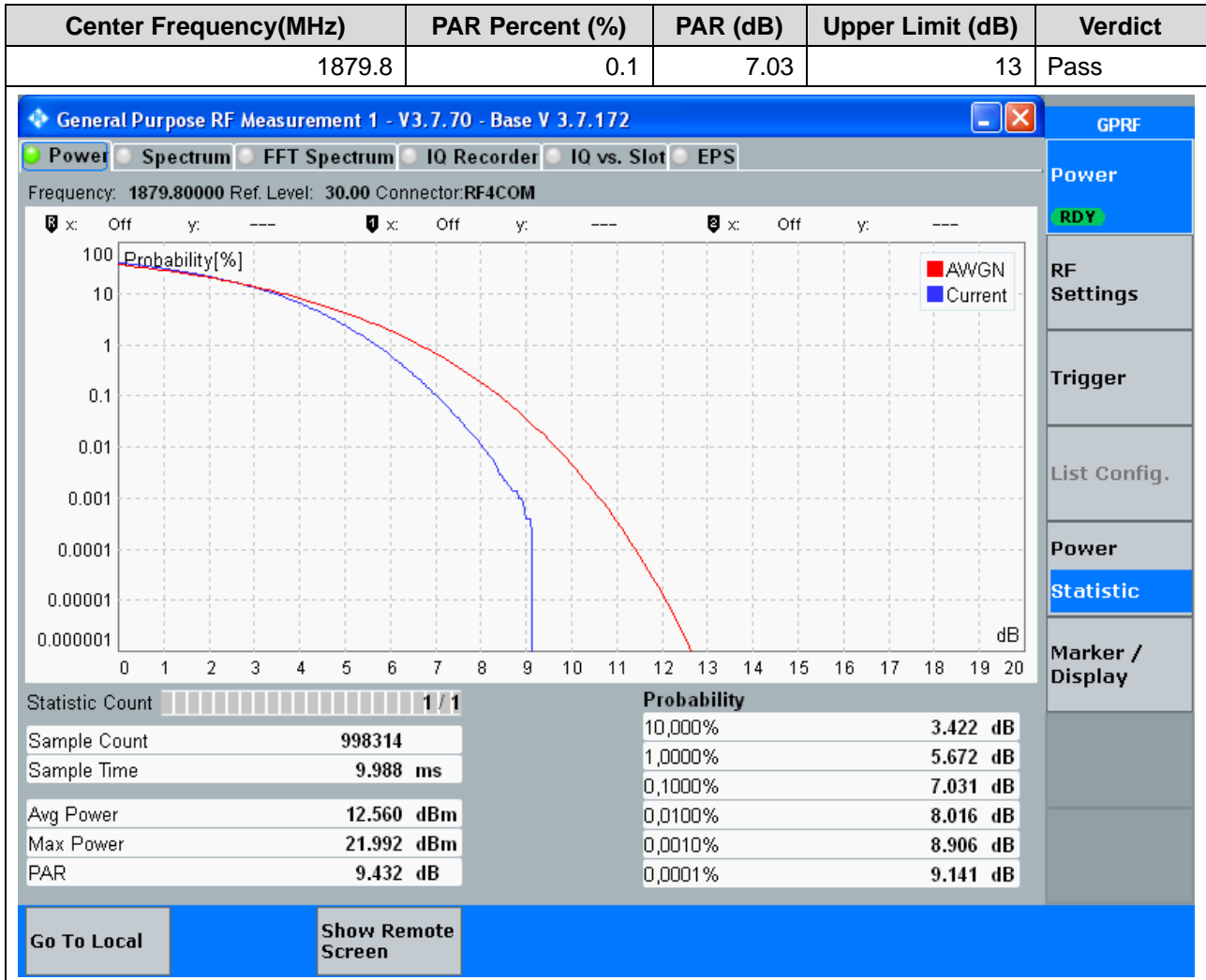
**5.6. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:6,  
Channel:18806|18950, Bandwidth:10|20MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**



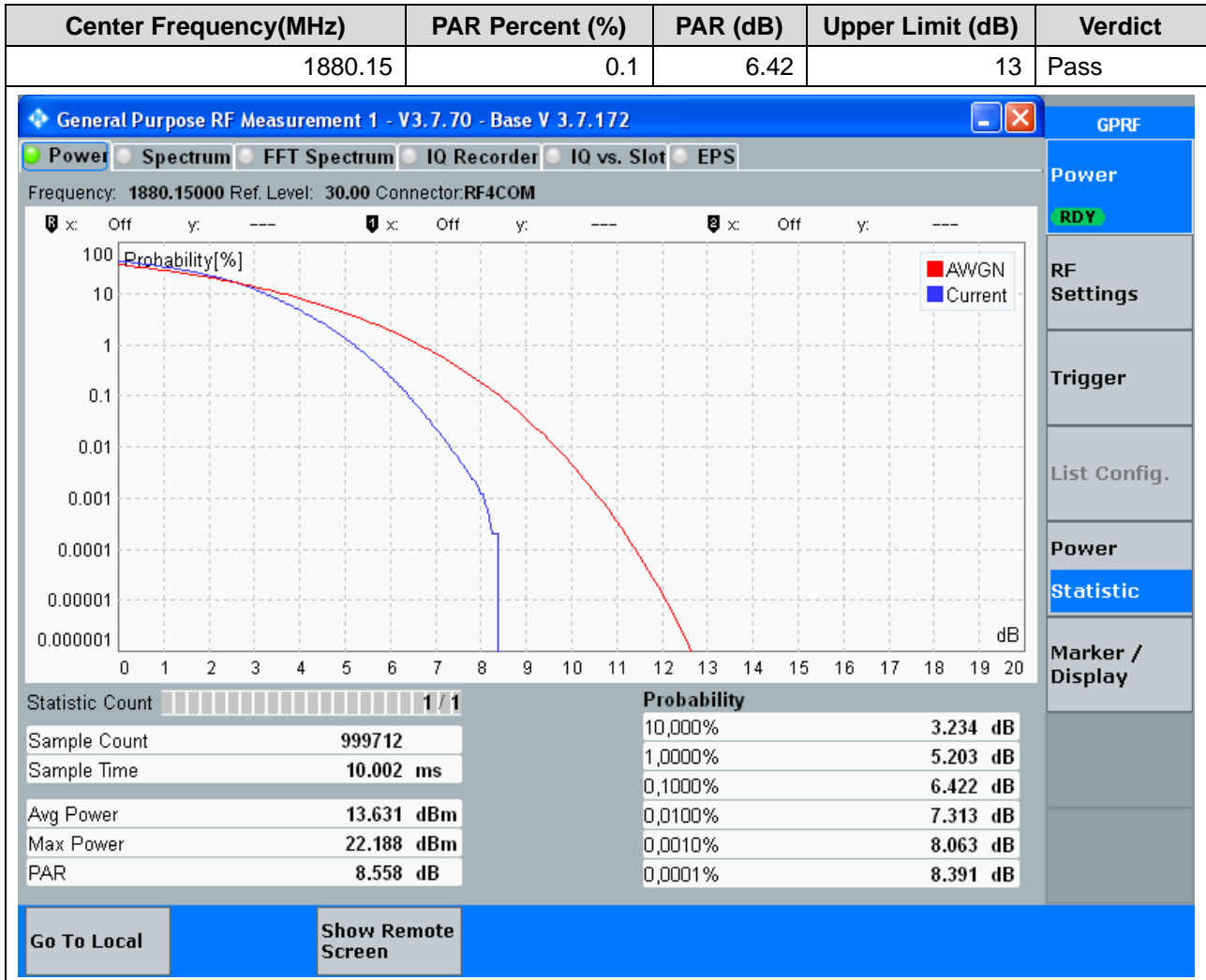
**5.7. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:7,  
Channel:18851|18995, Bandwidth:20|10MHz, Modulation:QPSK, RB  
Number:Full|Full, RB Position:Low|Low)**



**5.8. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:8,  
Channel:18851|18995, Bandwidth:20|10MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**



**5.9. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:9,  
Channel:18829|18949, Bandwidth:10|15MHz, Modulation:QPSK, RB  
Number:Full|Full, RB Position:Low|Low)**



**5.10. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:10, Channel:18829|18949, Bandwidth:10|15MHz, Modulation:16QAM, RB Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1880.15	0.1	6.94	13	Pass

General Purpose RF Measurement 1 - V3.7.70 - Base V 3.7.172
GPRF

Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS

Frequency: 1880.15000 Ref. Level: 30.00 Connector:RF4COM

x: Off y: --- x: Off y: --- x: Off y: ---

Statistic Count	
Sample Count	998312
Sample Time	9.988 ms
Avg Power	12.624 dBm
Max Power	22.246 dBm
PAR	9.622 dB

Probability	
10,000%	3.375 dB
1,0000%	5.578 dB
0,1000%	6.938 dB
0,0100%	7.969 dB
0,0010%	8.766 dB
0,0001%	9.188 dB

Go To Local
Show Remote Screen

GPRF

Power

RDY

RF Settings

Trigger

List Config.

Power

Statistic

Marker / Display



**5.11. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:11, Channel:18851|18971, Bandwidth:15|10MHz, Modulation:QPSK, RB Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1879.85	0.1	6.66	13	Pass

General Purpose RF Measurement 1 - V3.7.70 - Base V 3.7.172
GPRF

Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS

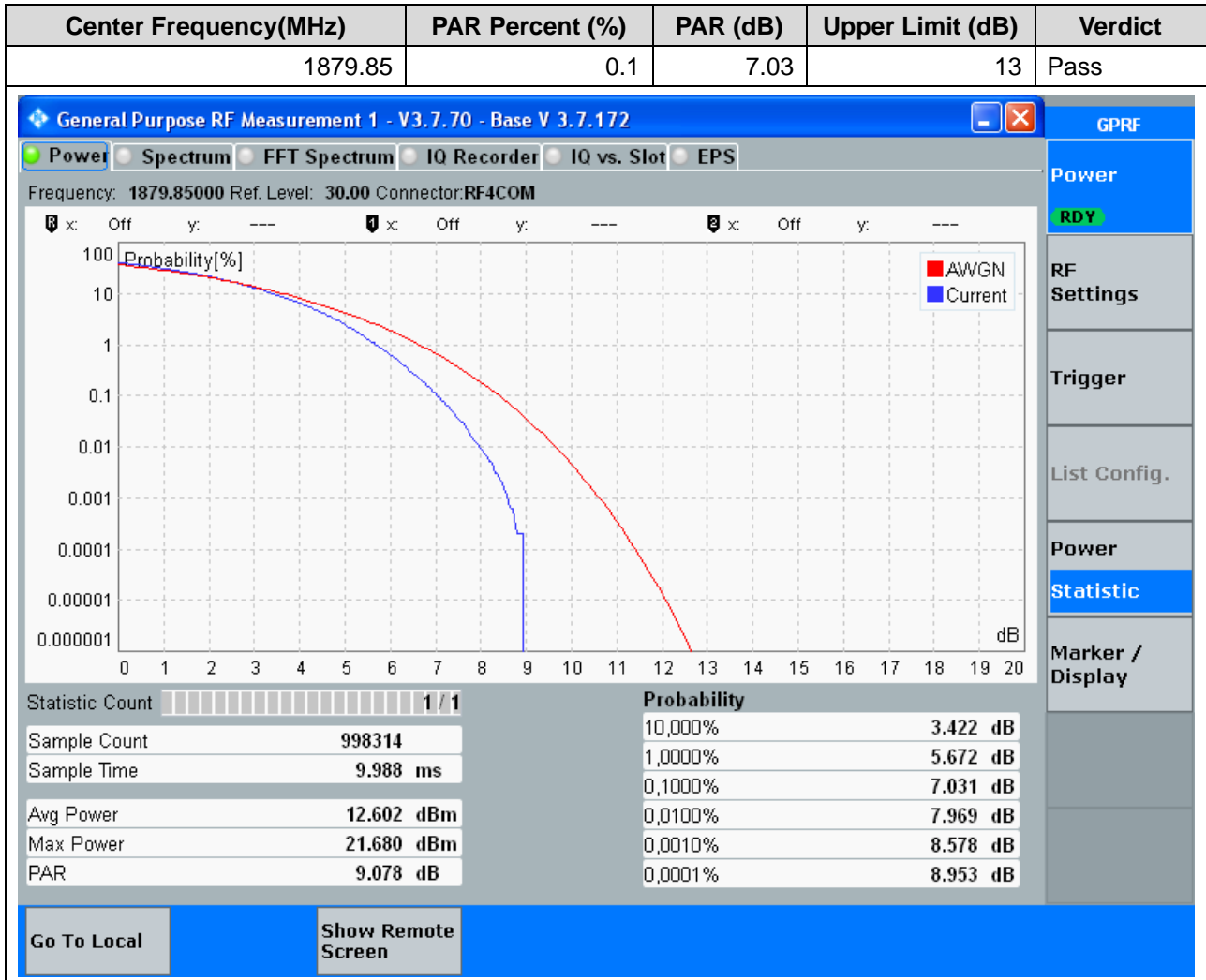
Frequency: 1879.85000 Ref. Level: 30.00 Connector:RF4COM

Statistic Count	
Sample Count	999712
Sample Time	10.002 ms
Avg Power	13.593 dBm
Max Power	22.592 dBm
PAR	9.000 dB

Probability	
10,000%	3.281 dB
1,0000%	5.344 dB
0,1000%	6.656 dB
0,0100%	7.641 dB
0,0010%	8.297 dB
0,0001%	8.953 dB

Go To Local
Show Remote Screen

**5.12. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:12, Channel:18851|18971, Bandwidth:15|10MHz, Modulation:16QAM, RB Number:Full|Full, RB Position:Low|Low)**



**5.13. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:13, Channel:18825|18975, Bandwidth:15|15MHz, Modulation:QPSK, RB Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	6.8	13	Pass

General Purpose RF Measurement 1 - V3.7.70 - Base V 3.7.172

GPRF

Power
  Spectrum
  FFT Spectrum
  IQ Recorder
  IQ vs. Slot
  EPS

Frequency: 1880.00000 Ref. Level: 30.00 Connector:RF4COM

x: Off y: ---
x: Off y: ---
x: Off y: ---

Statistic Count 1 / 1

Sample Count **999712**

Sample Time **10.002 ms**

Avg Power **13.581 dBm**

Max Power **22.907 dBm**

PAR **9.326 dB**

**Probability**

10,000%	3.188 dB
1,0000%	5.391 dB
0,10000%	6.797 dB
0,01000%	7.828 dB
0,0010%	8.484 dB
0,0001%	9.141 dB

Power

RDY

RF Settings

Trigger

List Config.

Power

Statistic

Marker / Display

Go To Local

Show Remote Screen

**5.14. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:14, Channel:18825|18975, Bandwidth:15|15MHz, Modulation:16QAM, RB Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	7.12	13	Pass

General Purpose RF Measurement 1 - V3.7.70 - Base V 3.7.172
GPRF

Power Spectrum FFT Spectrum IQ Recorder IQ vs. Slot EPS
Power

Frequency: 1880.00000 Ref. Level: 30.00 Connector:RF4COM

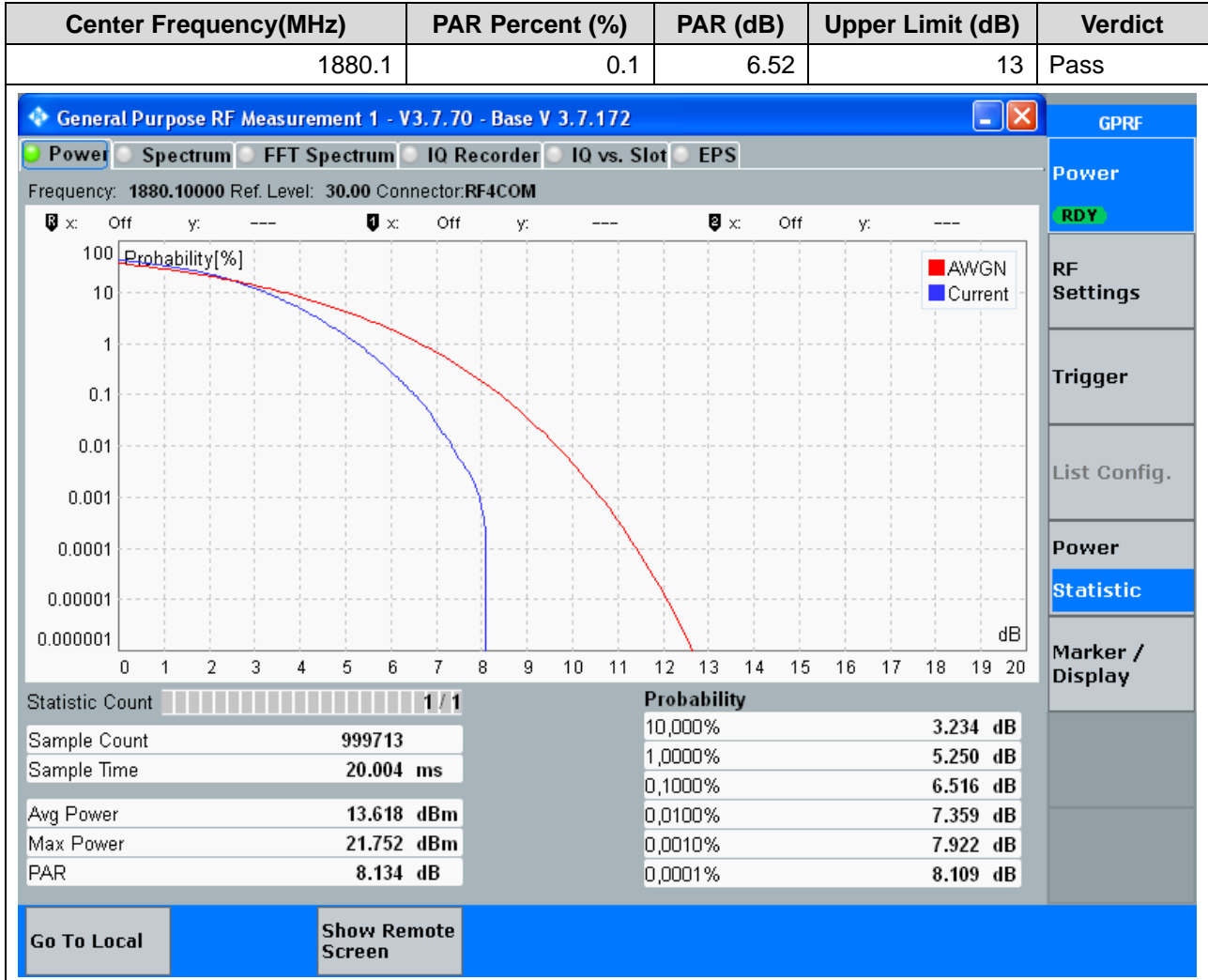
x: Off y: --- x: Off y: --- x: Off y: ---

Statistic Count	Value
Sample Count	998314
Sample Time	9.988 ms
Avg Power	12.580 dBm
Max Power	22.155 dBm
PAR	9.575 dB

Probability	Value
10,000%	3.422 dB
1,0000%	5.672 dB
0,1000%	7.125 dB
0,0100%	8.203 dB
0,0010%	9.094 dB
0,0001%	9.422 dB

Go To Local
Show Remote Screen

**5.15. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:15, Channel:18803|18974, Bandwidth:15|20MHz, Modulation:QPSK, RB Number:Full|Full, RB Position:Low|Low)**



**5.16. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:16, Channel:18803|18974, Bandwidth:15|20MHz, Modulation:16QAM, RB Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1880.1	0.1	6.94	13	Pass

General Purpose RF Measurement 1 - V3.7.70 - Base V 3.7.172
GPRF

Power | Spectrum | FFT Spectrum | IQ Recorder | IQ vs. Slot | EPS

Frequency: 1880.10000 Ref. Level: 30.00 Connector:RF4COM

x: Off y: --- x: Off y: --- x: Off y: ---

Statistic Count	
Sample Count	1023251
Sample Time	20.475 ms
Avg Power	12.593 dBm
Max Power	21.962 dBm
PAR	9.369 dB

Probability	
10,000%	3.375 dB
1,0000%	5.625 dB
0,1000%	6.938 dB
0,0100%	7.969 dB
0,0010%	8.719 dB
0,0001%	9.328 dB

Go To Local
Show Remote Screen

GPRF

Power

RDY

RF Settings

Trigger

List Config.

Power

Statistic

Marker / Display

**5.17. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:17, Channel:18826|18997, Bandwidth:20|15MHz, Modulation:QPSK, RB Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1879.9	0.1	6.42	13	Pass

General Purpose RF Measurement 1 - V3.7.70 - Base V 3.7.172
GPRF

Power
Spectrum
FFT Spectrum
IQ Recorder
IQ vs. Slot
EPS

Frequency: 1879.90000 Ref. Level: 30.00 Connector:RF4COM

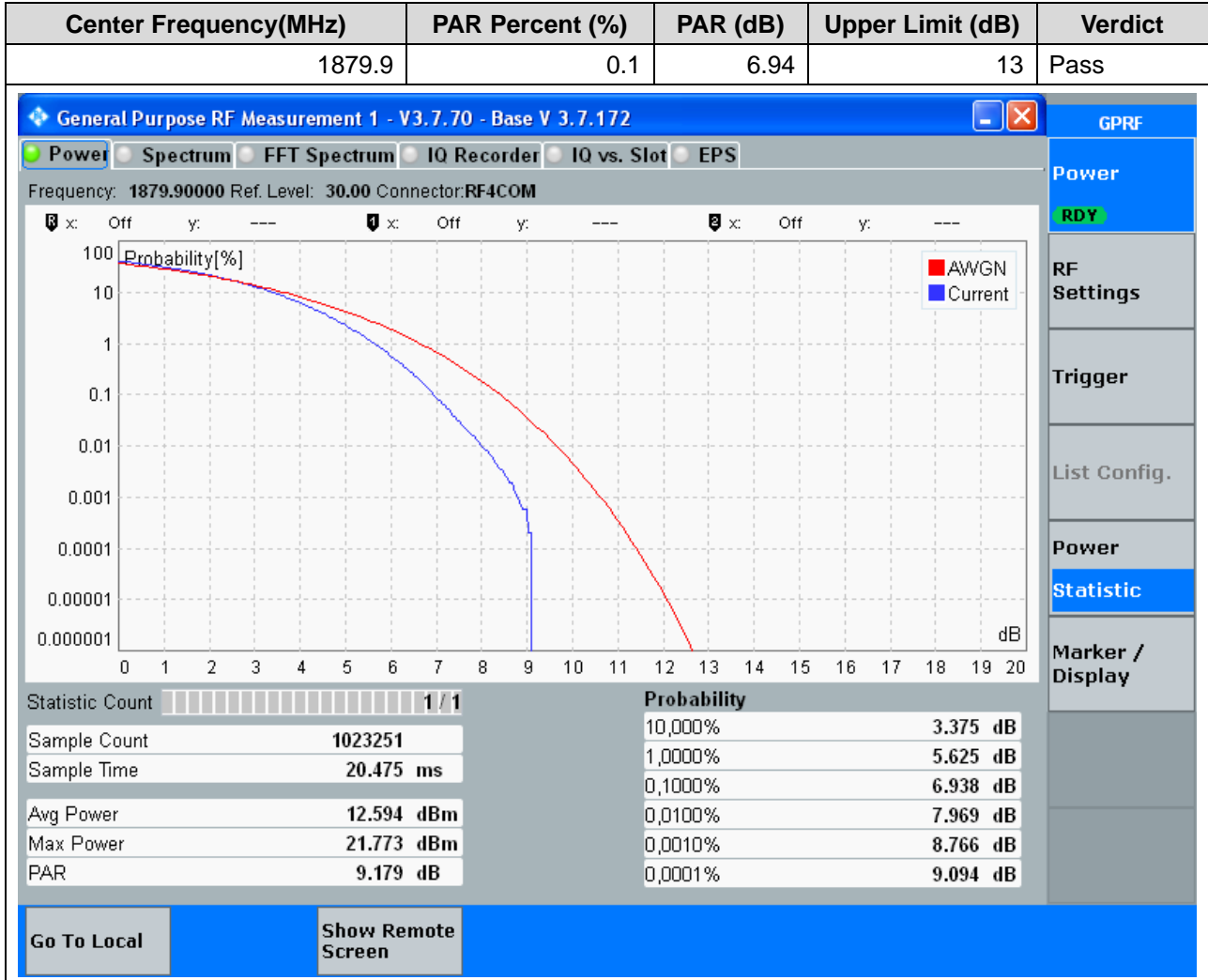
x: Off y: ---
x: Off y: ---
x: Off y: ---

Statistic Count	
Sample Count	999712
Sample Time	20.004 ms
Avg Power	13.596 dBm
Max Power	22.505 dBm
PAR	8.909 dB

Probability	
10,000%	3.188 dB
1,0000%	5.156 dB
0,1000%	6.422 dB
0,0100%	7.359 dB
0,0010%	8.250 dB
0,0001%	8.672 dB

Go To Local
Show Remote Screen

**5.18. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:18, Channel:18826|18997, Bandwidth:20|15MHz, Modulation:16QAM, RB Number:Full|Full, RB Position:Low|Low)**





**5.19. LTE-A Peak to Average Ratio\_Part22-24-27(NTNV)(Subtest:19, Channel:18801|18999, Bandwidth:20|20MHz, Modulation:QPSK, RB Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	6.66	13	Pass

General Purpose RF Measurement 1 - V3.7.70 - Base V 3.7.172
GPRF

Power | Spectrum | FFT Spectrum | IQ Recorder | IQ vs. Slot | EPS

Frequency: 1880.00000 Ref. Level: 30.00 Connector:RF4COM

x: Off y: --- x: Off y: --- x: Off y: ---

Statistic Count	
Sample Count	999712
Sample Time	20.004 ms
Avg Power	13.627 dBm
Max Power	22.322 dBm
PAR	8.695 dB

Probability	
10,000%	3.188 dB
1,0000%	5.203 dB
0,1000%	6.656 dB
0,0100%	7.547 dB
0,0010%	8.156 dB
0,0001%	8.484 dB

Go To Local
Show Remote Screen

GPRF

Power

RDY

RF Settings

Trigger

List Config.

Power

Statistic

Marker / Display