



**SUMMARY TEST DATA  
ON  
TCDRO-16G-CD-1**

PL29814/2031

Customer: \_\_\_\_\_ Tested By: Bryan K.  
SO No: \_\_\_\_\_ Temperature: +25°C  
Model No: TCDRO-16G-CD-1 Date: 12/19/2020  
Serial No: PL29814/2031 Drawing No: 27634780 Rev: A1

| TEST. ITEM NO | PARAMETERS                                | SPECIFIED VALUE   | TEST RESULTS   | QA QC       |
|---------------|---|---|--|-------------|
| 1             | Center Frequency:                         | 16 GHz  | 16.0 GHz<br>See Plot   | PMI<br>QA 2 |
| 2             | Mechanical Tuning Frequency:              | ±10 MHz   | ± 12.5 MHz   |             |
| 3             | Output Power:                             | 18 dBm Min.   | +19.69 dBm<br>See Plot   |             |
| 4             | Spurious:                                 | -85 dBc Min.  | -86.62 dBc   |             |
| 5             | Harmonics:                                | -25 dBc Min.  | -35.44 dBc<br>See Plot   |             |
| 6             | *Phase Noise:                             | 10 kHz Offset = -80 dBc/Hz<br>100 kHz Offset = -95 dBc/Hz | 10 kHz Offset = -80.05 dBc/Hz<br>100 kHz Offset = -105.51 dBc/Hz |             |
| 7             | Frequency Drift Temperature Coefficient : | 0.8 ppm/°C  | See typical characteristics                                      |             |
| 9             | DC Supply:                                | +15±0.5 VDC @ 200 mA Max                                  | 87 mA @ +15 VDC  | PMI<br>QA 2 |

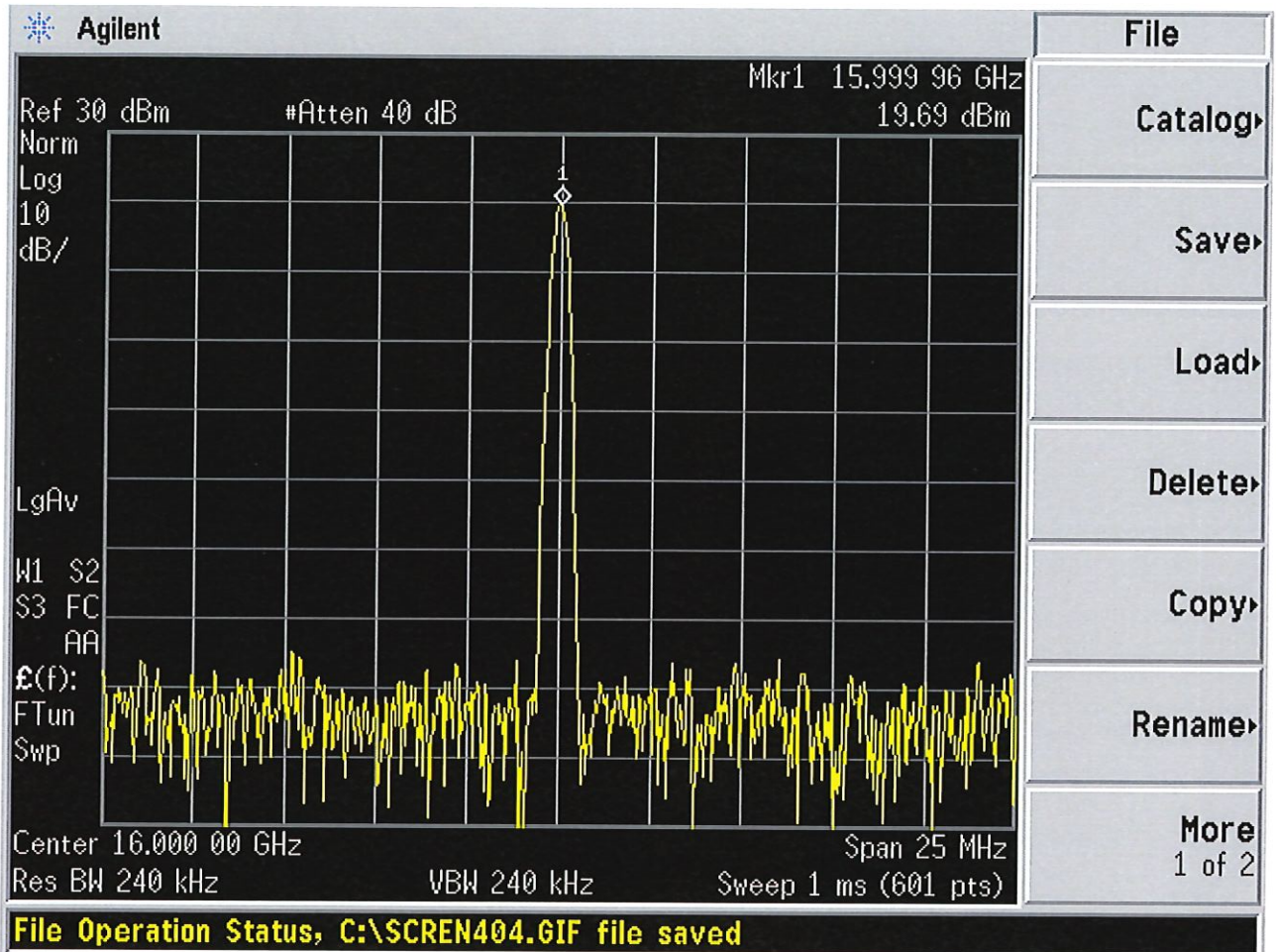
QA/QC Approval:  PMI QA 2 Date: 12/24/20



**SUMMARY TEST DATA  
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Carrier





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Spurious

Agilent

File

Ch Freq ----- Trig Free

Spurious Emissions PASS

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More  
1 of 2

Mkr 1    968.053 MHz  
                  -66.93 dBm

Ref -30.00dBm  
10.00  
dB/

800 MHz                      Peak                      1 GHz

| Spur | Range | Frequency | Amplitude  | Limit      |
|------|-------|-----------|------------|------------|
| 8    | 2     | 1.906 GHz | -77.89 dBm | -50.00 dBm |
| 9    | 2     | 1.908 GHz | -77.92 dBm | -50.00 dBm |
| 10   | 2     | 1.914 GHz | -77.96 dBm | -50.00 dBm |
| 11   | 2     | 1.911 GHz | -78.03 dBm | -50.00 dBm |
| 12   | 5     | 968.1 MHz | -66.93 dBm | -50.00 dBm |

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Harmonics

**Agilent**

Ch Freq ----- Trig Free

Harmonic Distortion

Ref 30 dBm #Atten 40 dB

#Samp

Log

10

dB/

Center 47.999 772 GHz Span 0 Hz

Res BW 240 kHz #VBW 2 kHz Sweep 10 ms (601 pts)

| Frequency   | Amplitude  |
|-------------|------------|
| 1 16.00 GHz | 19.68 dBm  |
| 2 32.00 GHz | -35.44 dBc |
| 3 48.00 GHz | -45.92 dBc |

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More  
1 of 2

**File Operation Status, C:\STATE399.STA file loaded**



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Phase Noise

