



**SUMMARY TEST DATA  
ON  
TCDRO-12G-CD-1**

PL31008/2051

Customer: \_\_\_\_\_ Tested By: Bryan K.  
SO No: \_\_\_\_\_ Temperature: +25°C  
Model No: TCDRO-12G-CD-1 Date: 12/18/2020  
Serial No: PL31008/2051 Drawing No: 27634760 Rev: A1

| TEST. ITEM NO | PARAMETERS                                | SPECIFIED VALUE   | TEST RESULTS   | QA QC       |
|---------------|---|---|--|-------------|
| 1             | Center Frequency:                         | 12 GHz  | 12.0 GHz<br>See Plot   | PMI<br>QA 2 |
| 2             | Mechanical Tuning Frequency:              | ±10 MHz   | ± 12.5 MHz   |             |
| 3             | Output Power:                             | 18 dBm Min.   | +19.81 dBm<br>See Plot   |             |
| 4             | Spurious:                                 | -85 dBc Min.  | -87.11 dBc   |             |
| 5             | Harmonics:                                | -25 dBc Min.  | -28.69 dBc<br>See Plot   |             |
| 6             | *Phase Noise:                             | 10 kHz Offset = -90 dBc/Hz<br>100 kHz Offset = -95 dBc/Hz | 10 kHz Offset =<br>-76.33 dBc/Hz<br>100 kHz Offset =<br>-103.15 dBc/Hz |             |
| 7             | Frequency Drift Temperature Coefficient : | 0.8 ppm/°C  | See typical characteristics  |             |
| 9             | DC Supply:                                | +15±0.5 VDC @ 200 mA Max                                  | 77 mA @ +15 VDC  | PMI<br>QA 2 |

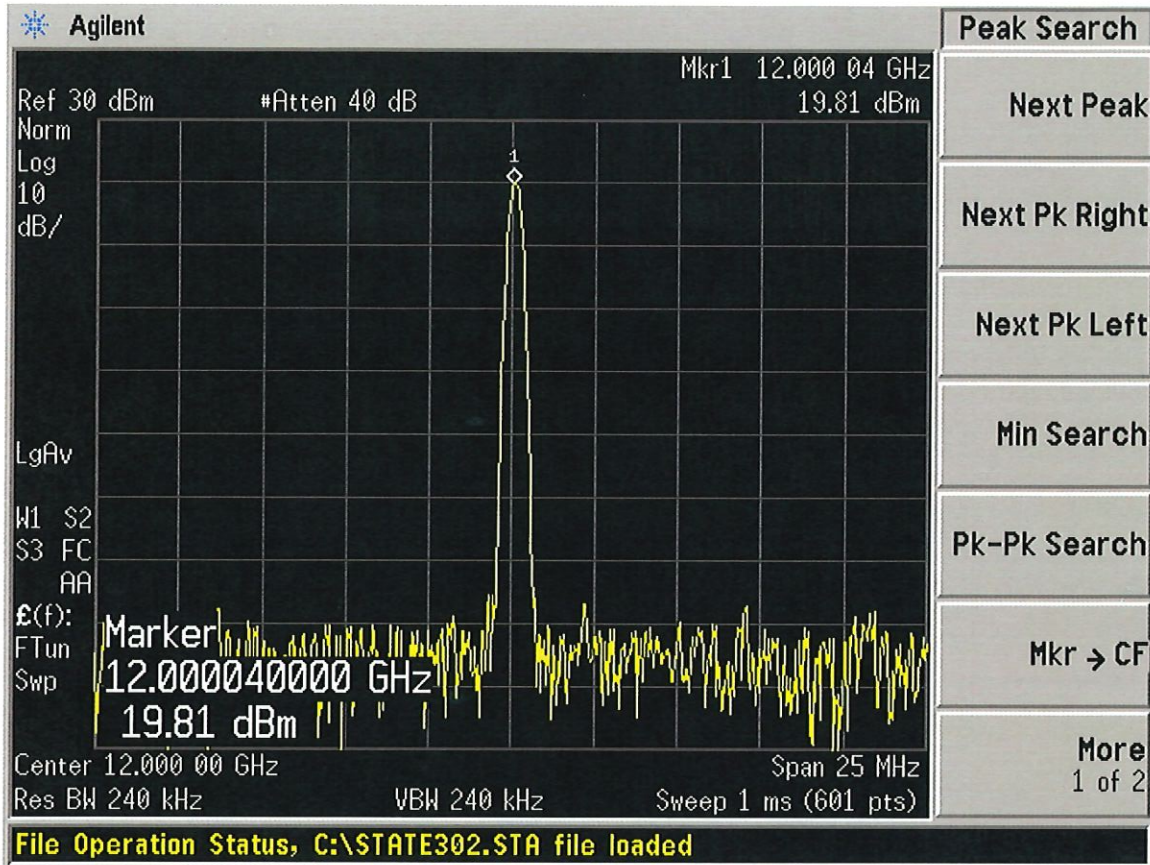
QA/QC Approval:  PMI QA 2 Date: 3/16/21



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Carrier



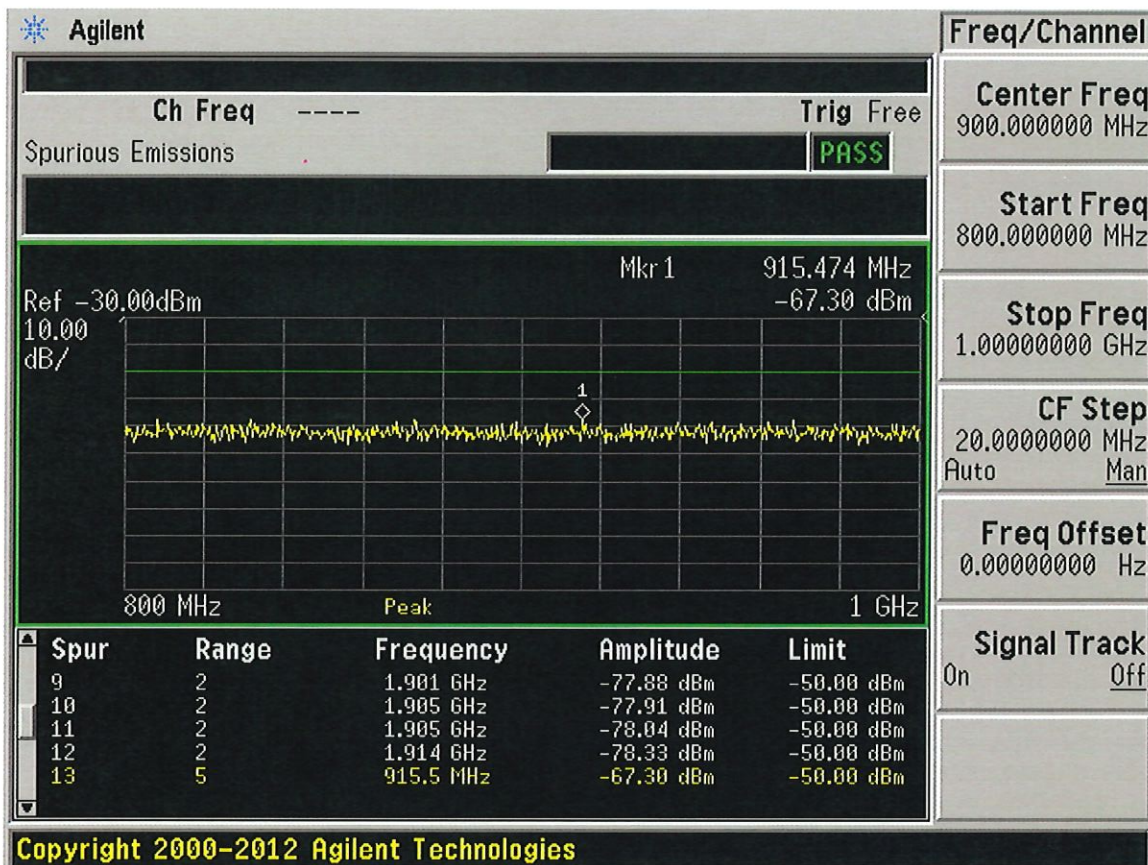




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Spurious





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Harmonics

Agilent

Ch Freq ----- Trig Free

Harmonic Distortion

Ref 30 dBm #Atten 40 dB

#Samp

Log

10

dB/

Center 36.000 211 GHz Span 0 Hz

Res BW 750 kHz #VBW 2 kHz Sweep 10 ms (601 pts)

| Frequency   | Amplitude  |
|-------------|------------|
| 1 12.00 GHz | 19.66 dBm  |
| 2 24.00 GHz | -28.69 dBc |
| 3 36.00 GHz | -27.76 dBc |
| 4 48.00 GHz | -52.70 dBc |

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1 of 2

File Operation Status, C:\STATE306.STA file loaded





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Phase Noise

