

**FEATURES**

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes, Field Removable connector
- Compact/Rugged Thin-Film Construction

**APPLICATIONS**

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics



**ELECTRICAL SPECIFICATIONS@25°C:**

| Parameter                  | Min  | Typical | Max | Units |
|----------------------------|--|---------|-----|-------|
| Frequency Range            | with coaxial switch divide two freq band amplifier 1-2GHz and 2-18GHz output |         |     |       |
| Small Signal Gain          | 40   |         |     | dB    |
| Small Signal Gain Flatness |  | ±3      |     | dB    |
| Noise Figure               |  |         |     | dB    |
| Output Power (Psat)        | 43   |         |     | dBm   |
| Spurious                   |  |         | -60 | dBc   |
| Harmonics                  |  | -15     |     | dBc   |
| VSWR                       |  | 2:1     |     | Ratio |
| Input Voltage              | 220VAC   |         |     |       |
| Human-computer Interface   | touch screen LCD:Voltage,Current,Temperature                                 |         |     |       |
| Program Control Interface  | RS232 and RS485  |         |     |       |

Note:  
1.Over Temperature Protection; Over Voltage Protection; Over Current protection.  
2.Air forced cool.

**ENVIRONMENTAL RATINGS:**

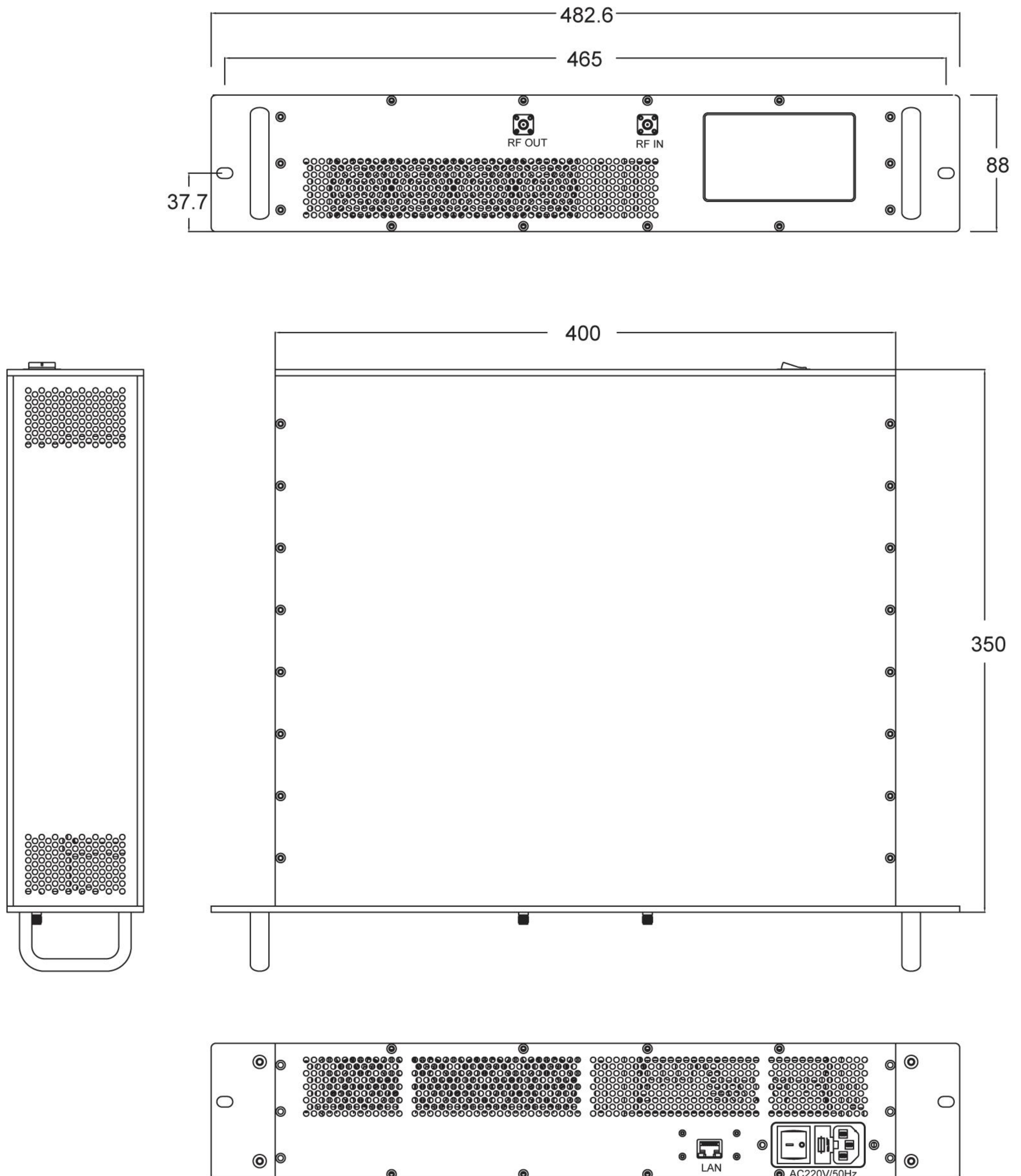
| Parameter                          | Min   | Typical | Max   | Units |
|------------------------------------|-------|---------|-------|-------|
| Input power Protection             |       |         | +10   | dBm   |
| Operating Temperature              | -20   |         | +50   | °C    |
| Non-operating Temperature          | -40   |         | +85   | °C    |
| Relative humidity (non-condensing) |       | 95      |       | %     |
| Altitude (MIL-STD-810F)            | 10000 |         | 30000 | feet  |
| Shock / Vibration (MIL-STD-810F)   |       | Airbone |       |       |



**MECHANICAL SPECIFICATIONS:**

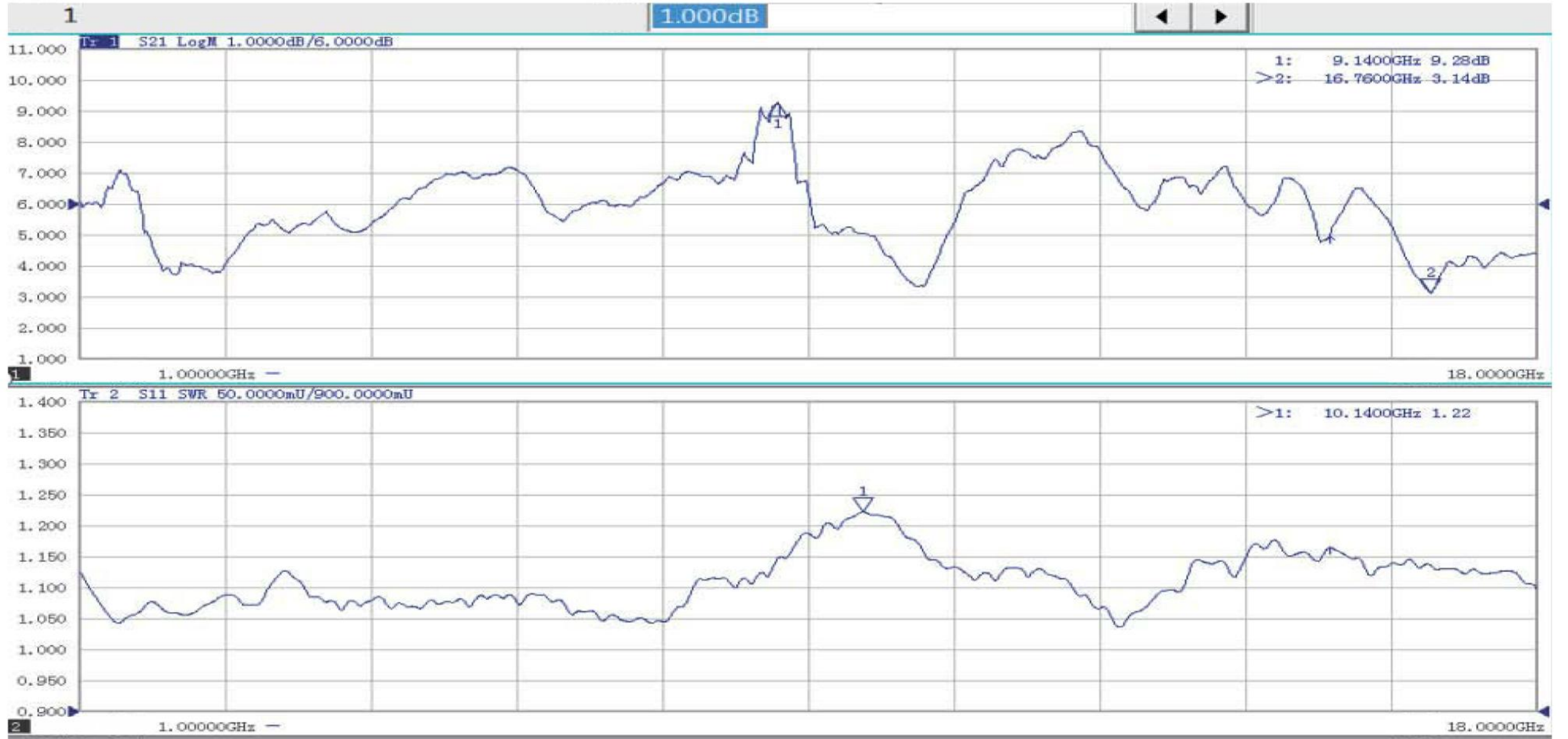
| Parameter            | Value      | Limits | Units     |
|----------------------|------------|--------|-----------|
| Dimensions           | 2U D:350mm |        | Milimeter |
| Weight               | 10         |        | Kg        |
| RF Connectors Input  | SMA-F      |        |           |
| RF Connectors output | SMA-F      |        |           |
| Impedance            | 50         |        | ohms      |

**OUTLINE DRAWING(mm):**

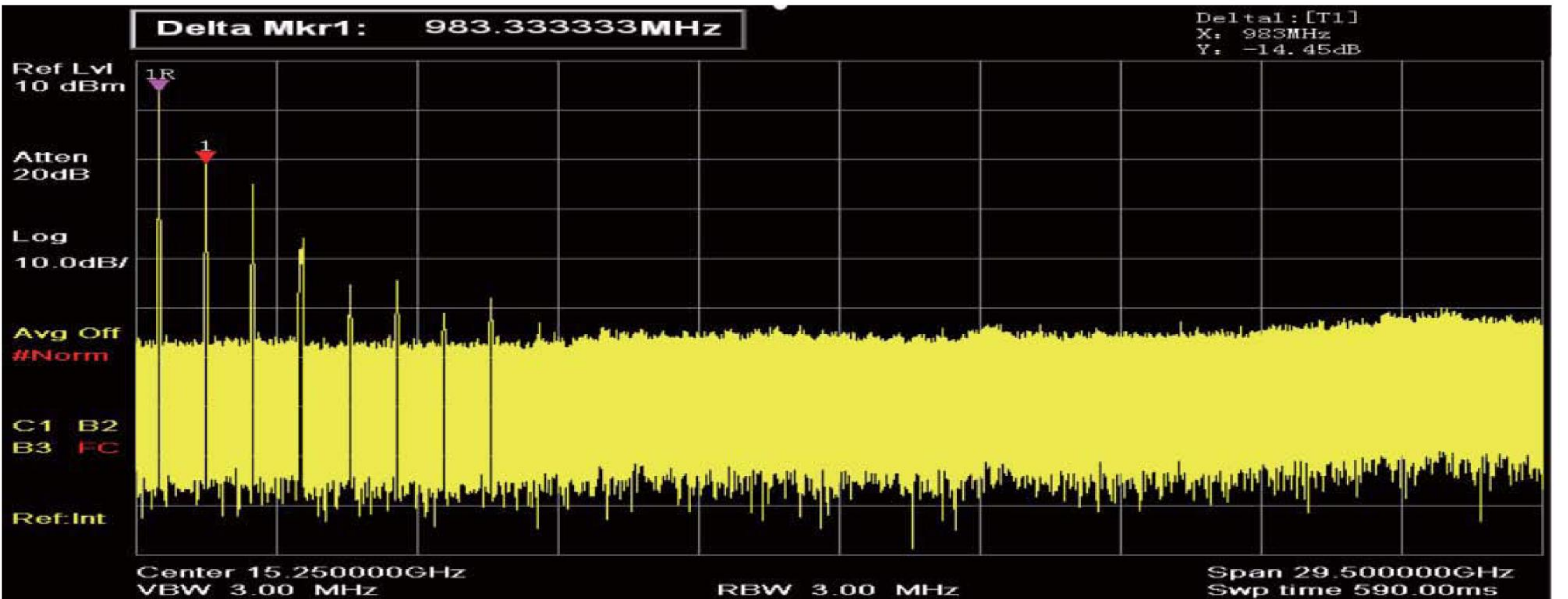




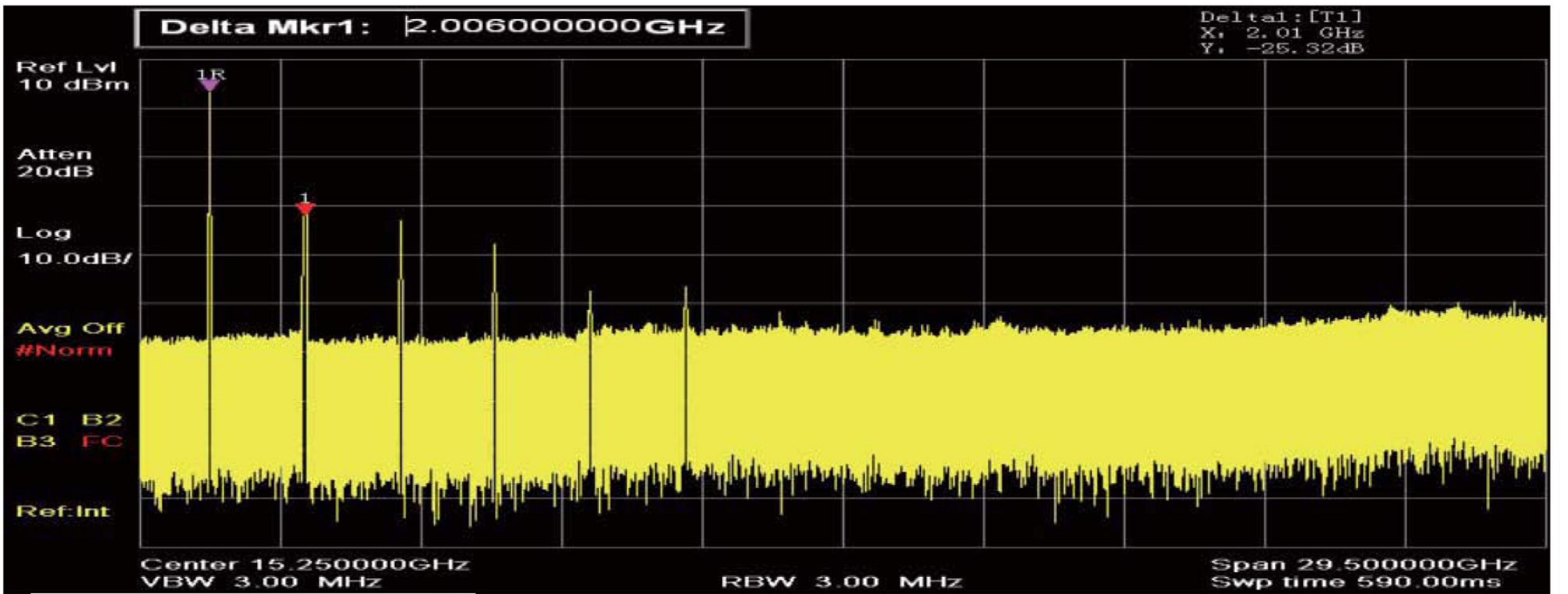
S



Harmonic@1G

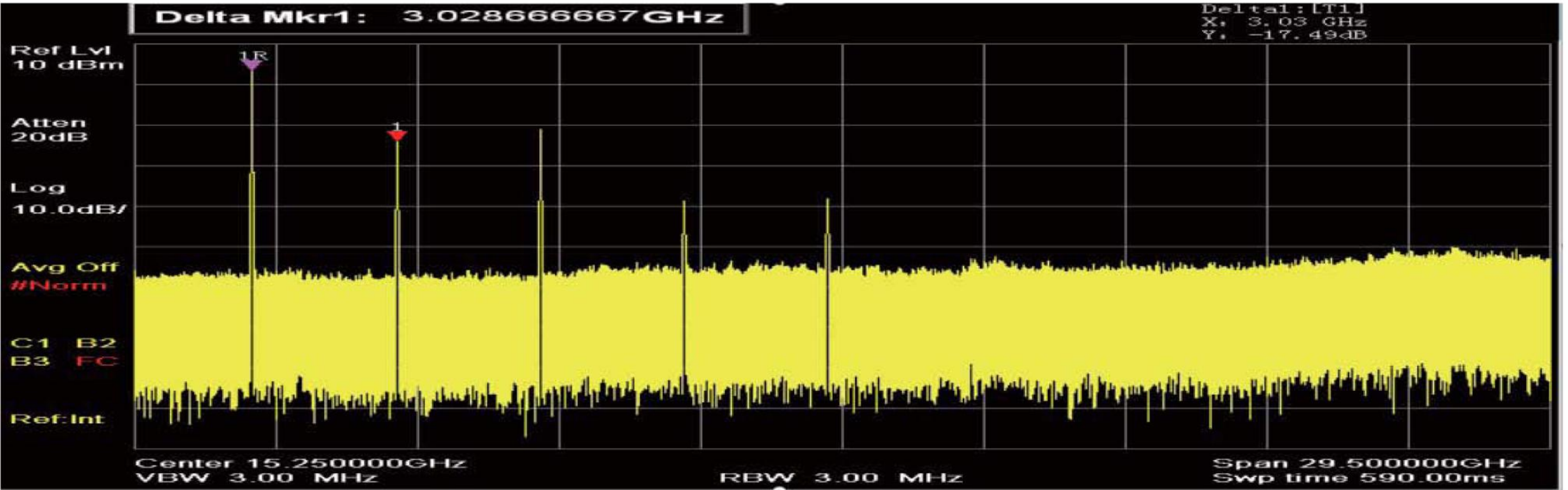


2G

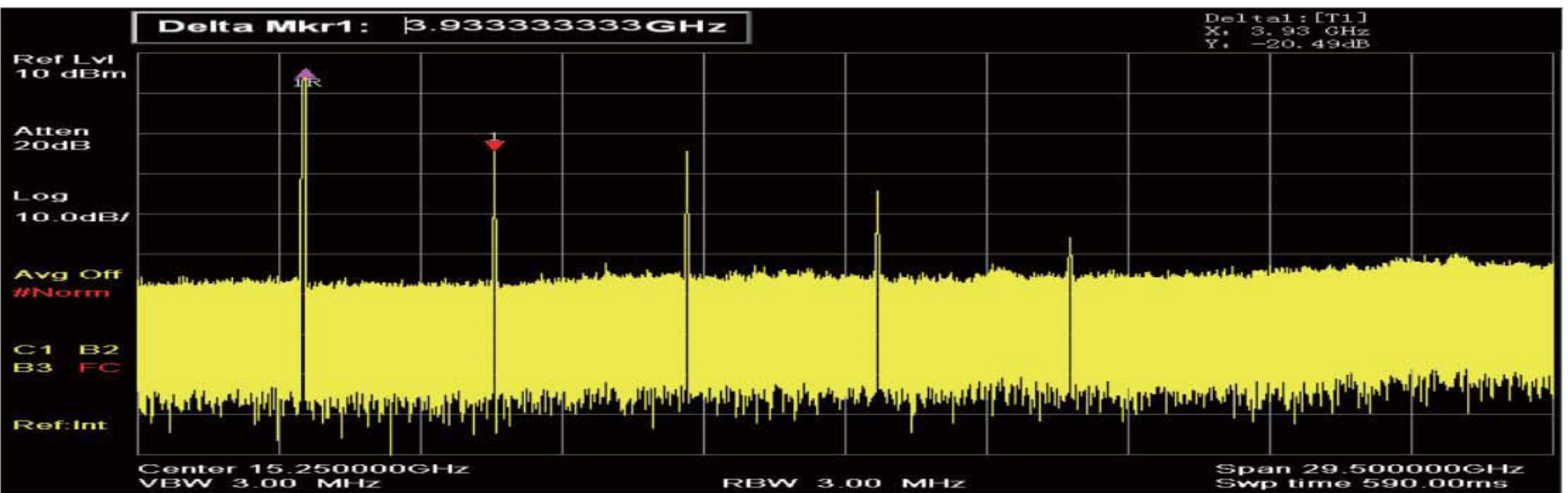




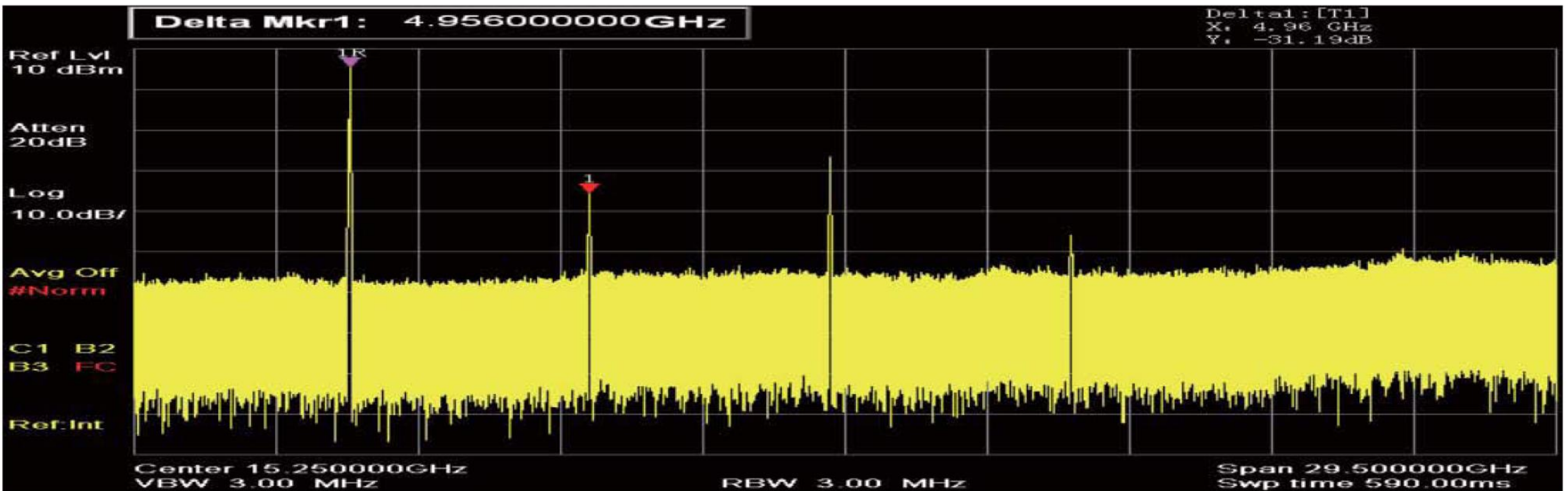
3G



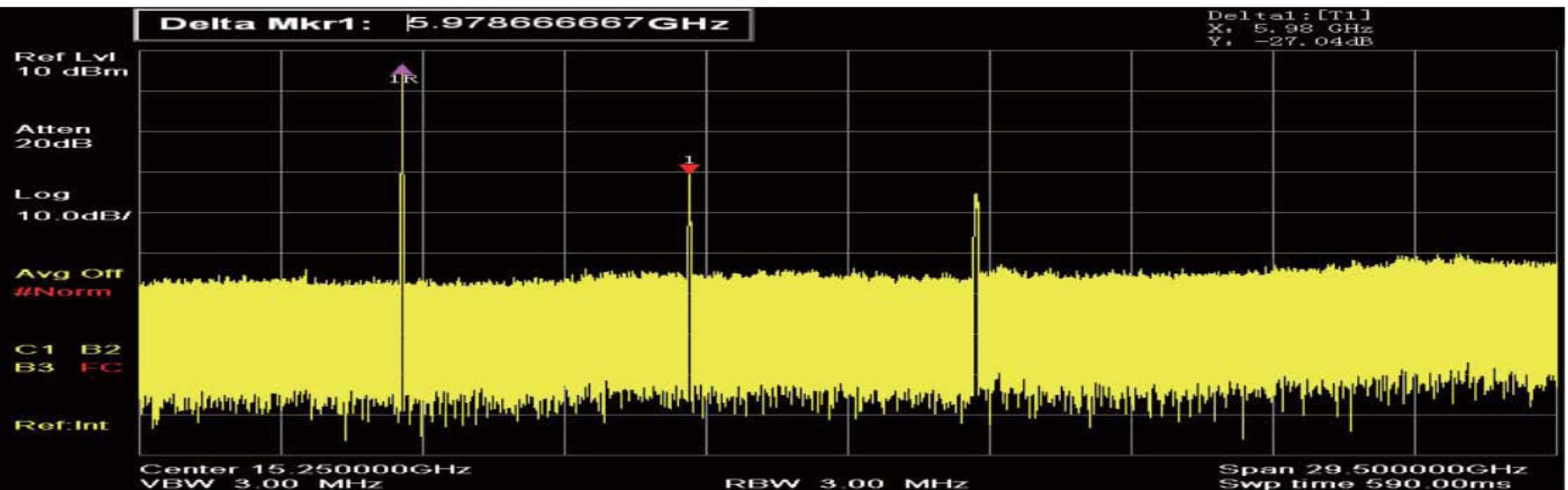
4G



5G

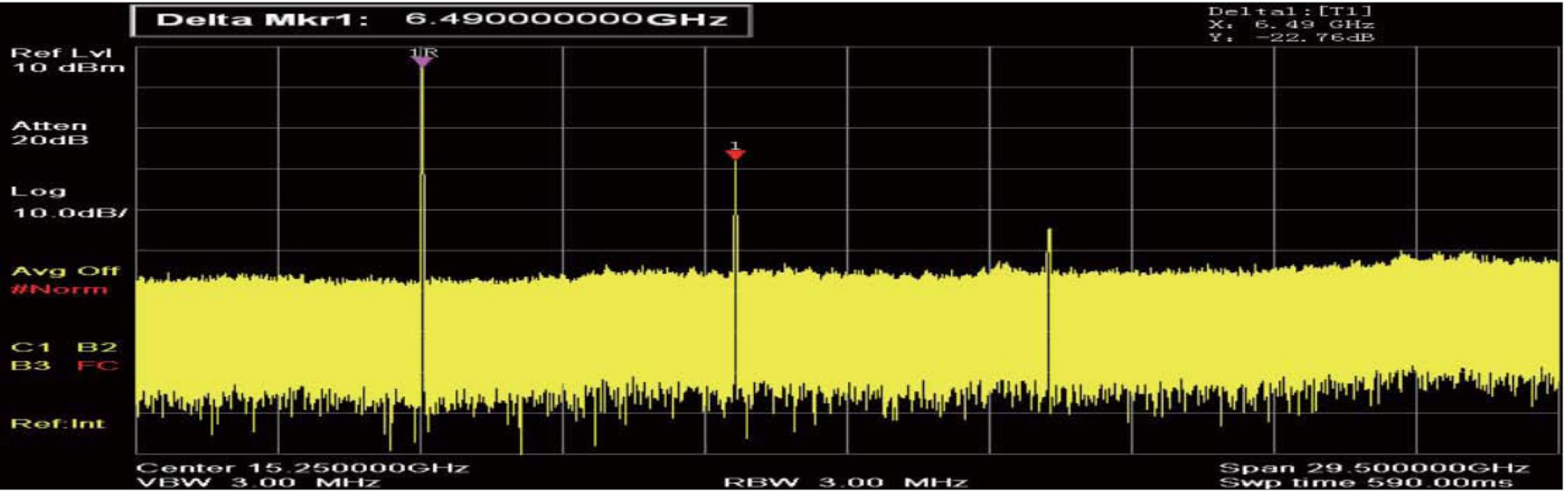


6G

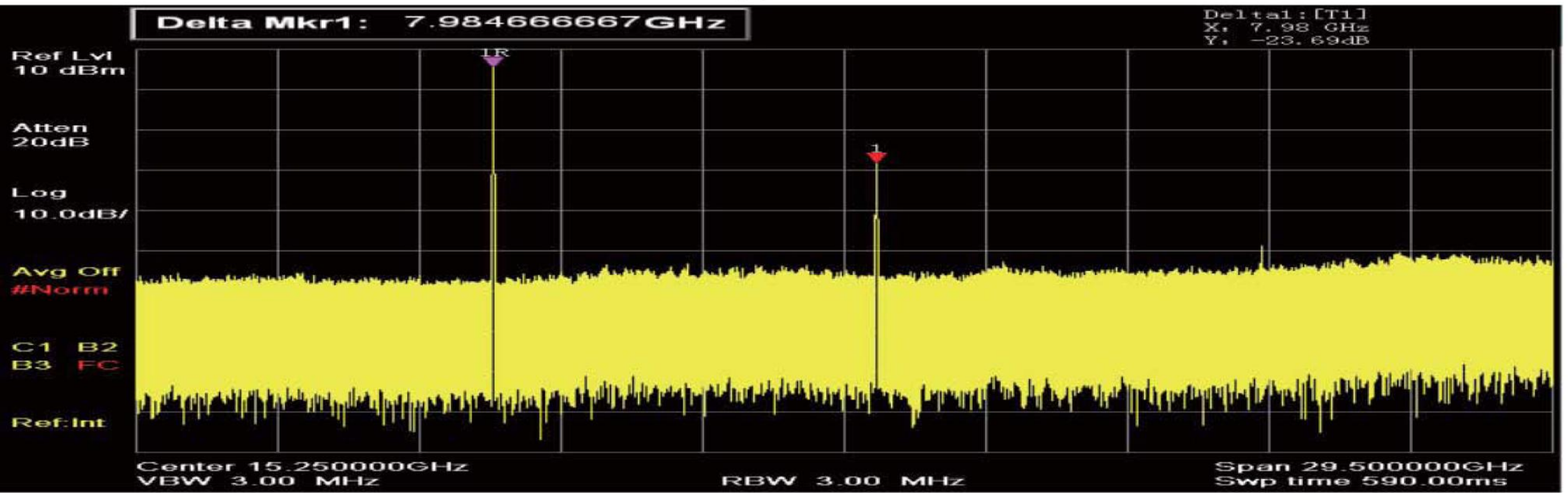




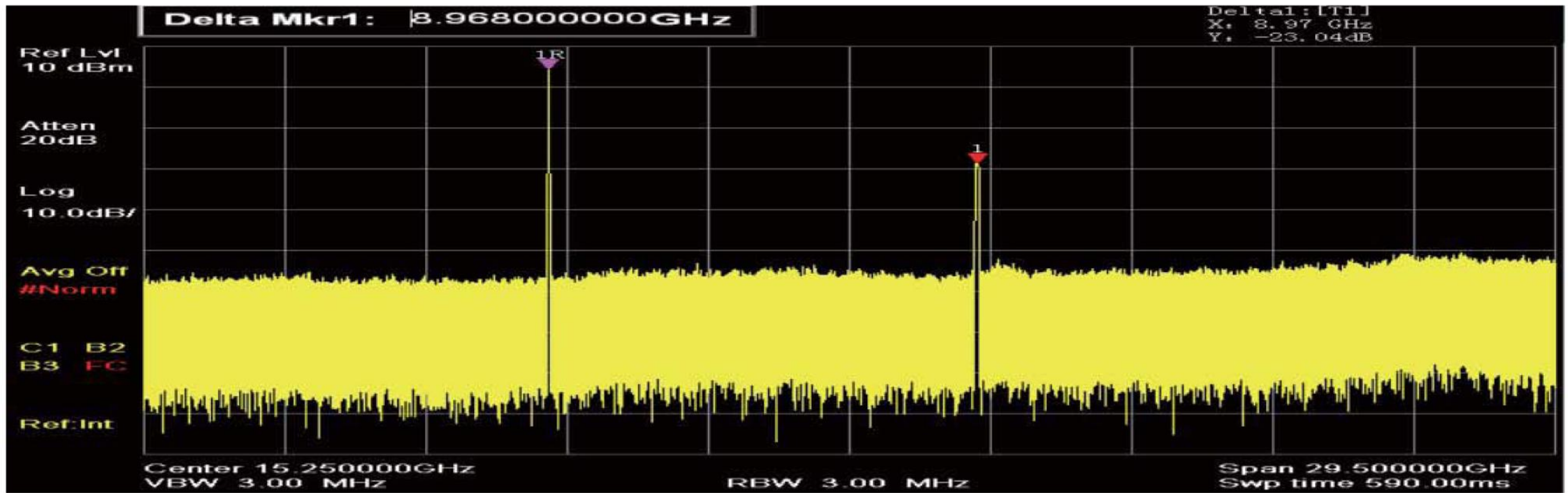
7G



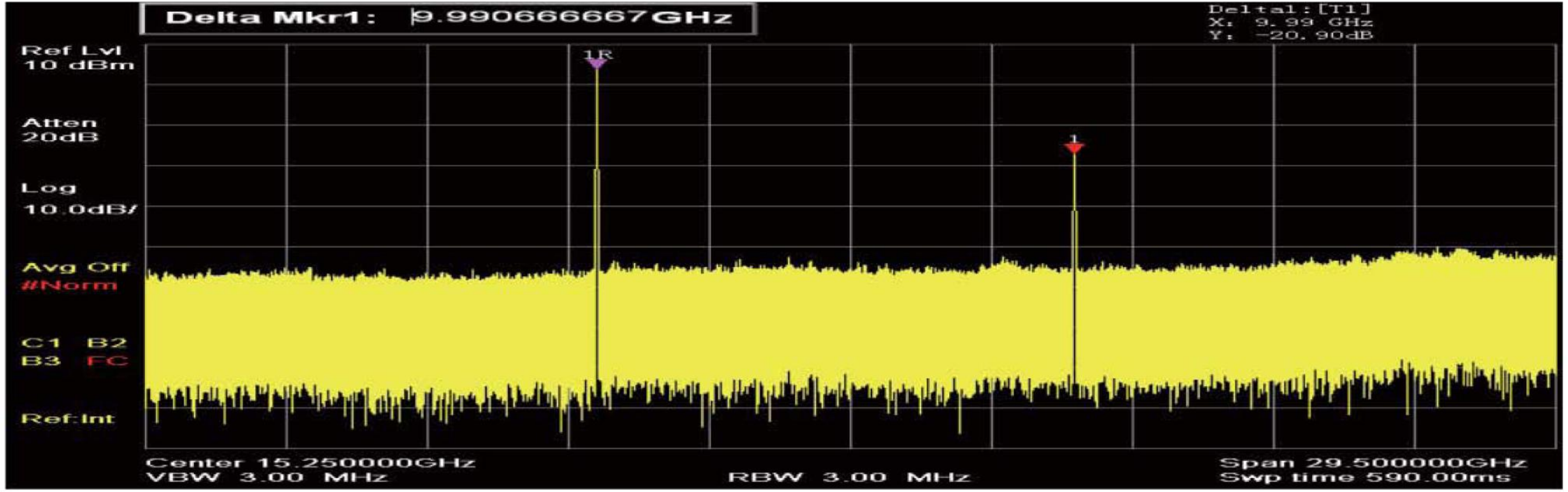
8G



9G

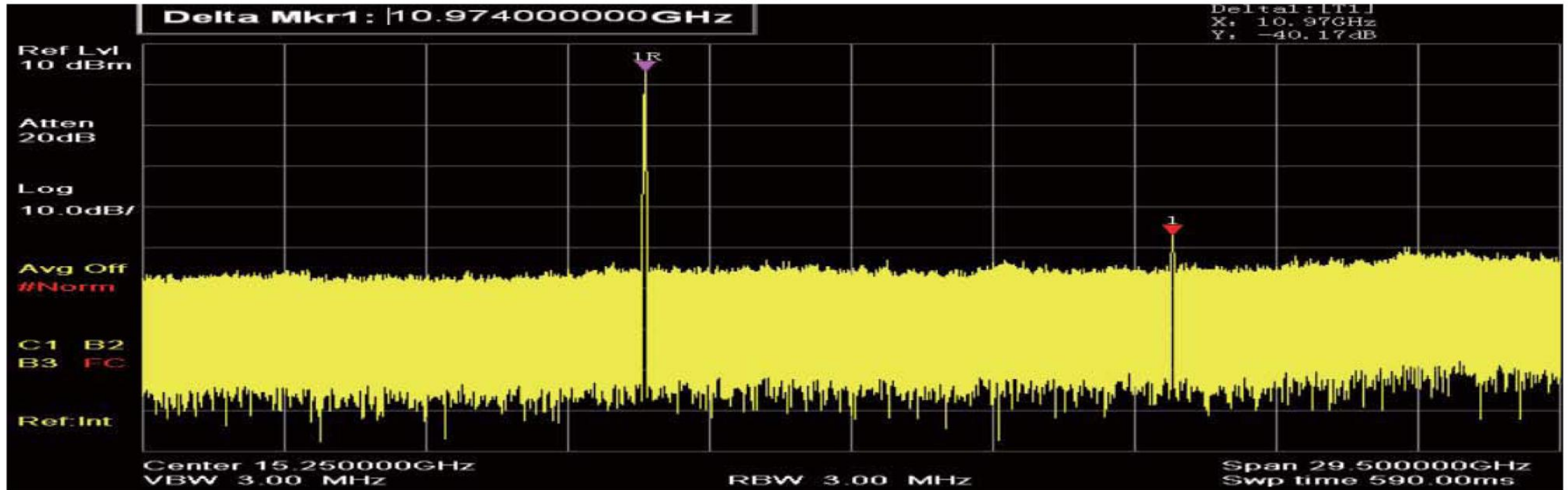


10G

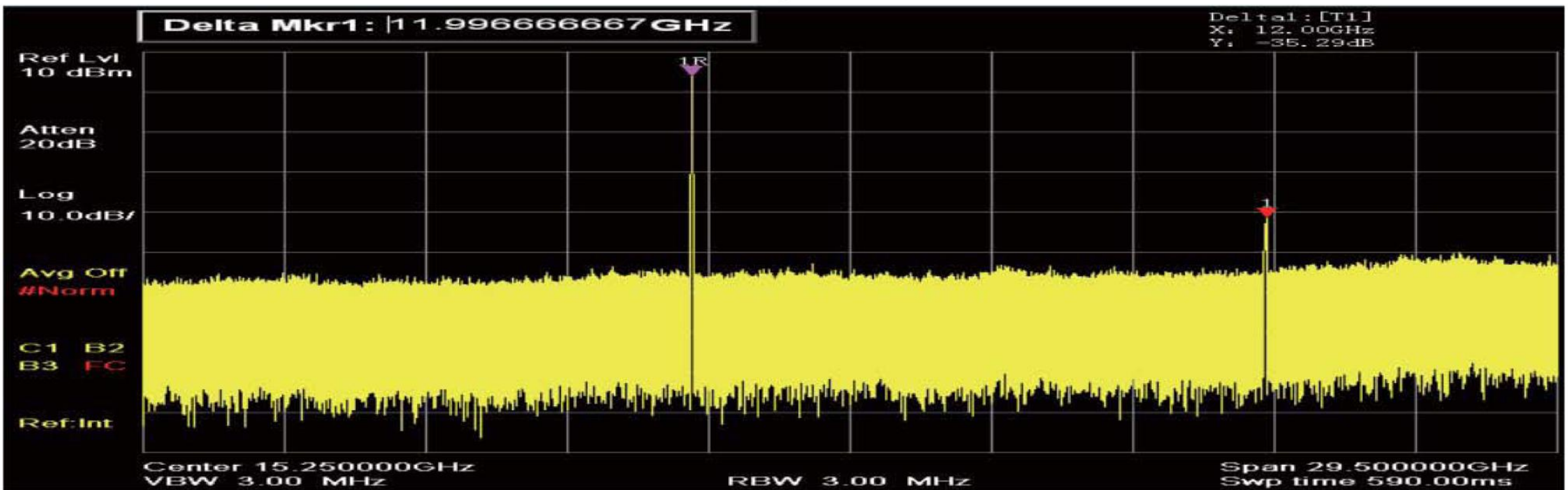




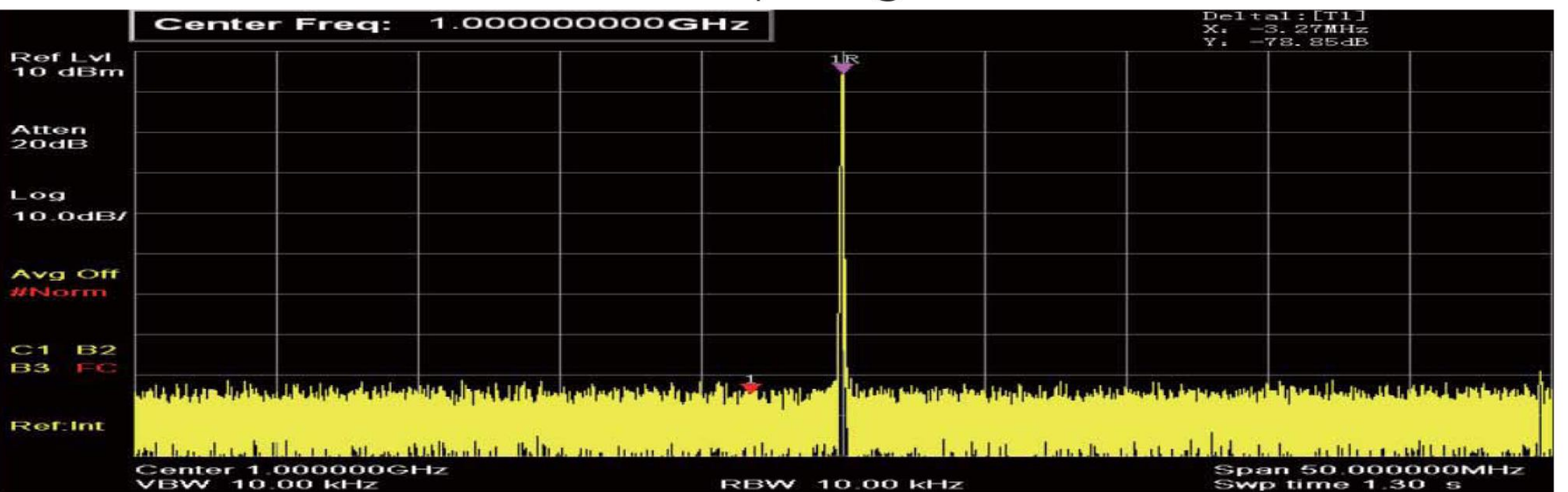
11G



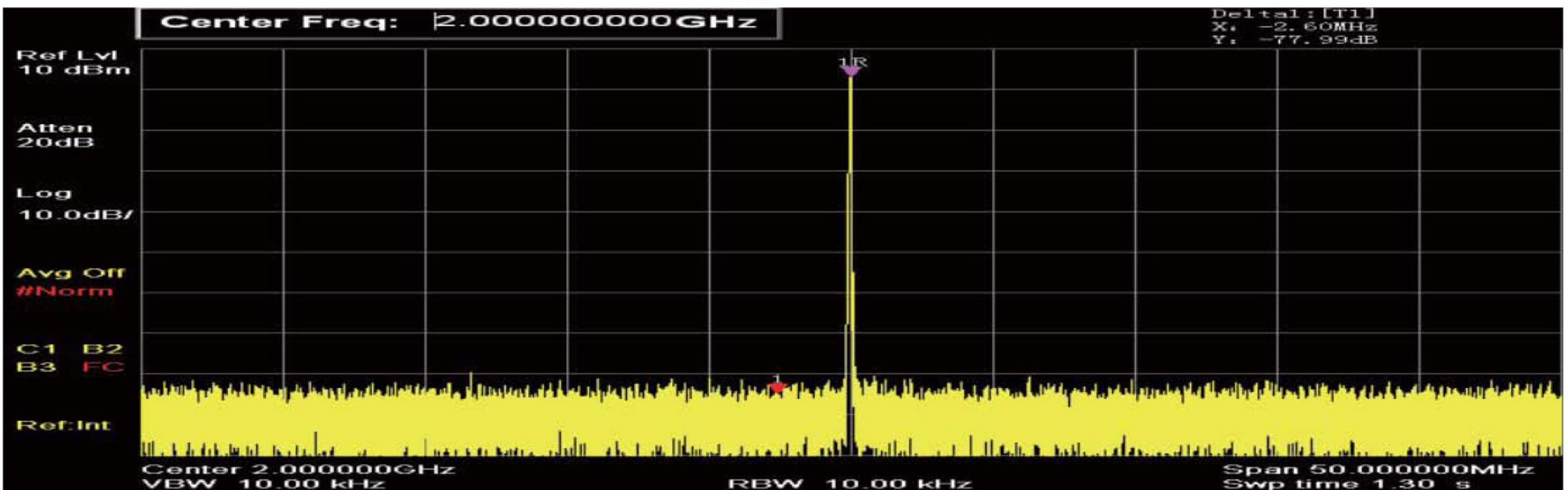
12G



Spurious @1G



2G

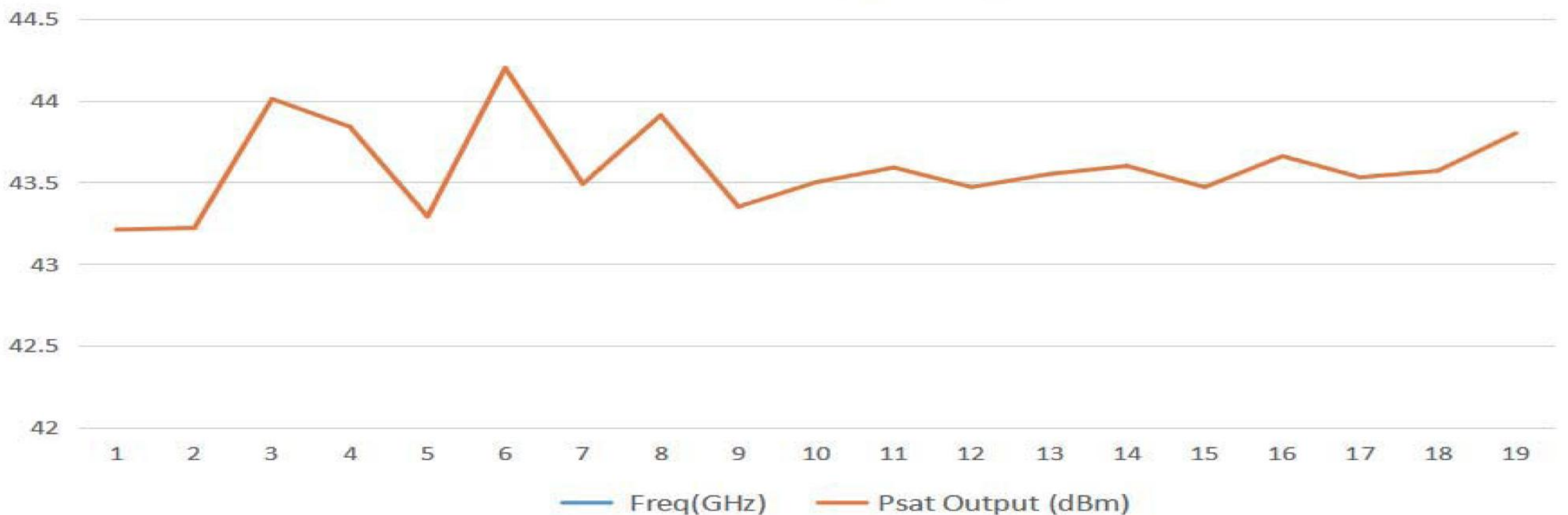




**TEST DATA:**

| Freq(GHz) | Coupling(dB) | Psat Input (dBm) | Psat Output (dBm) |
|-----------|--------------|------------------|-------------------|
| 1         | 41.22        | 0                | 43.21             |
| 2         | 41.14        | 0                | 43.22             |
| 3         | 41.52        | 0                | 44.01             |
| 4         | 41.59        | 0                | 43.84             |
| 5         | 41.54        | 0                | 43.29             |
| 6         | 41.57        | 0                | 44.2              |
| 7         | 41.5         | 0                | 43.49             |
| 8         | 41.41        | 0                | 43.91             |
| 9         | 41.55        | 0                | 43.35             |
| 9.5       | 41.57        | 0                | 43.5              |
| 10        | 41.66        | 0                | 43.59             |
| 11        | 41.79        | 0                | 43.47             |
| 12        | 41.75        | 0                | 43.55             |
| 13        | 41.7         | 0                | 43.6              |
| 14        | 41.81        | 0                | 43.47             |
| 15        | 42.52        | 0                | 43.66             |
| 16        | 42.93        | 0                | 43.53             |
| 17        | 43.7         | 0                | 43.57             |
| 18        | 43.68        | 0                | 43.8              |

**Psat output (dBm)**

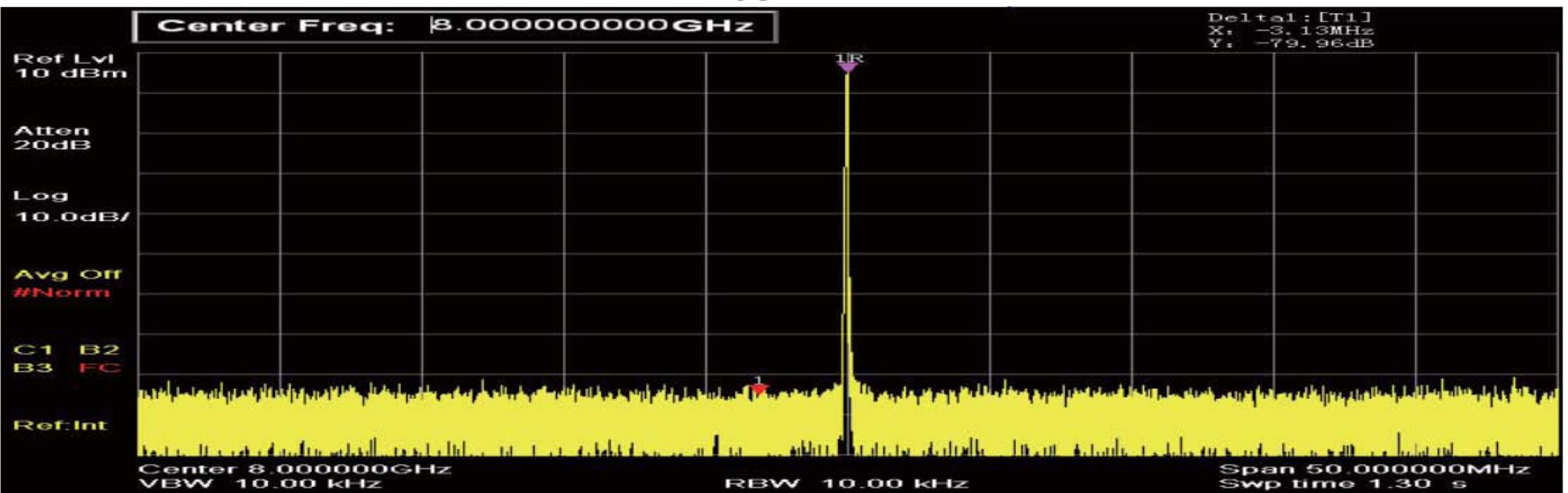




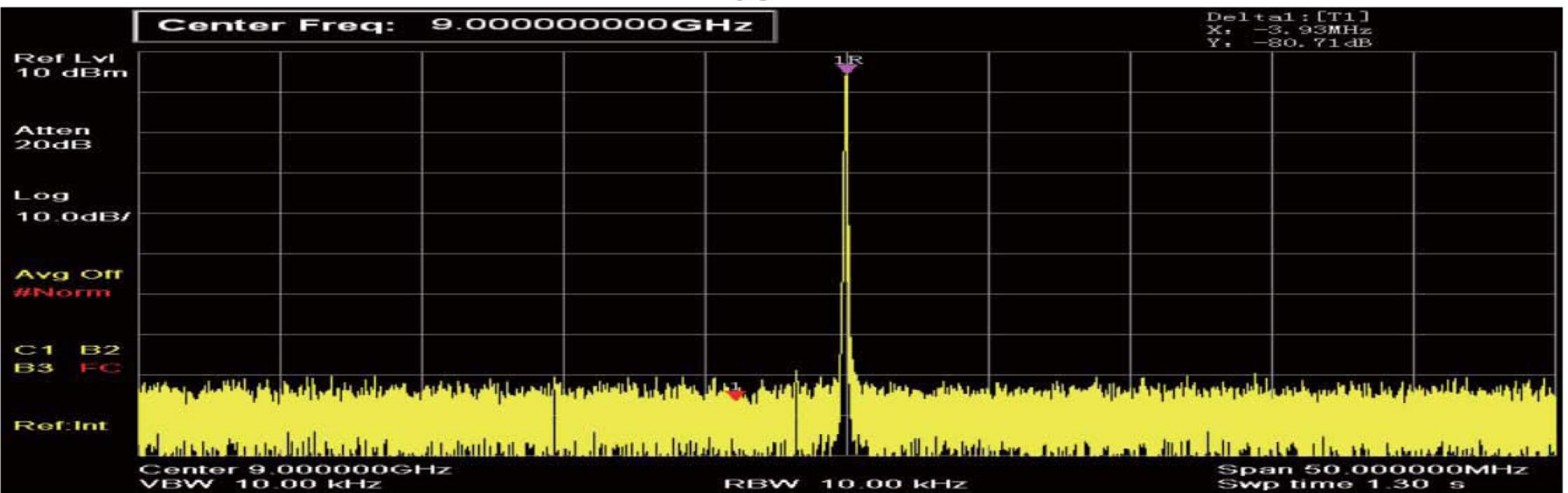
7G



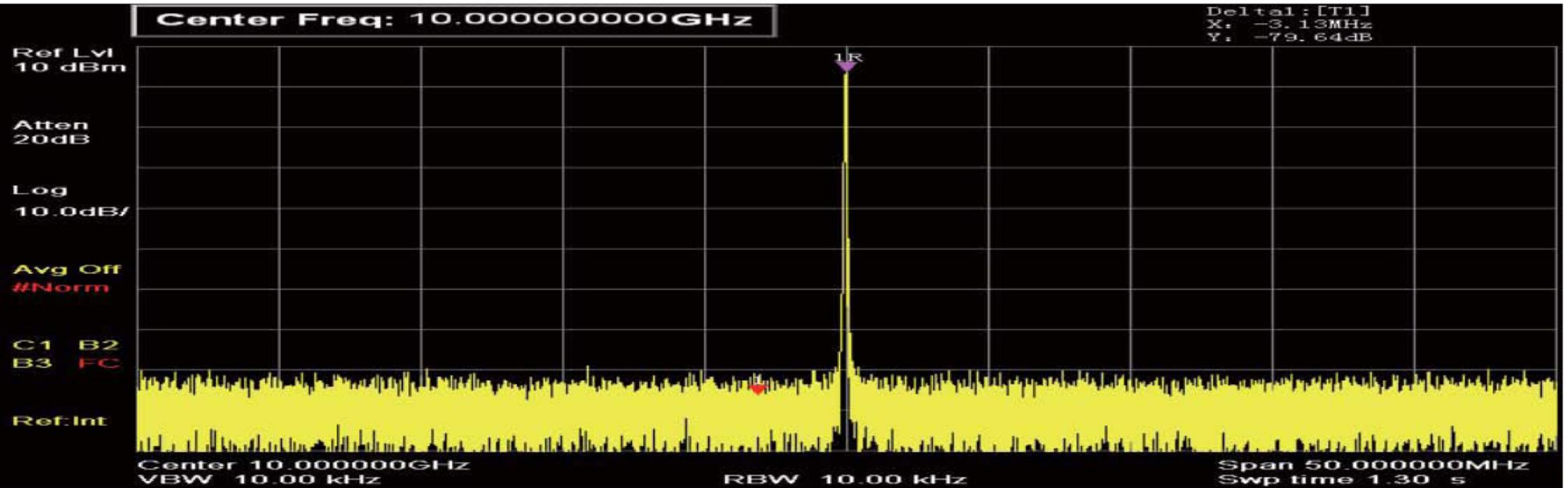
8G



9G

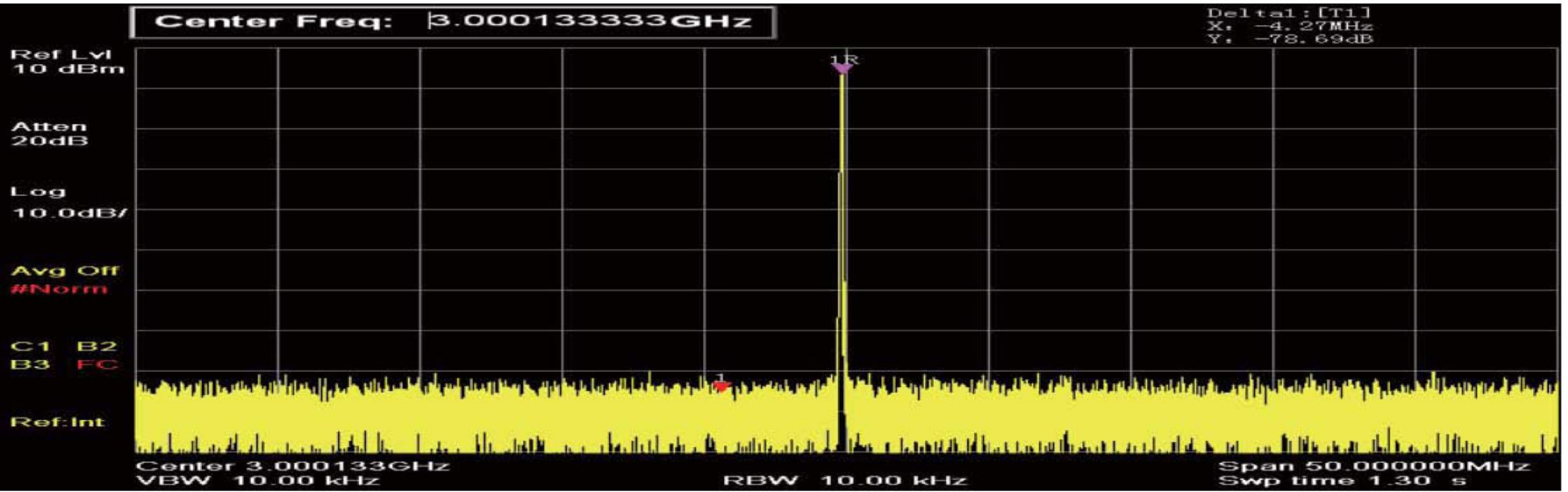


10G

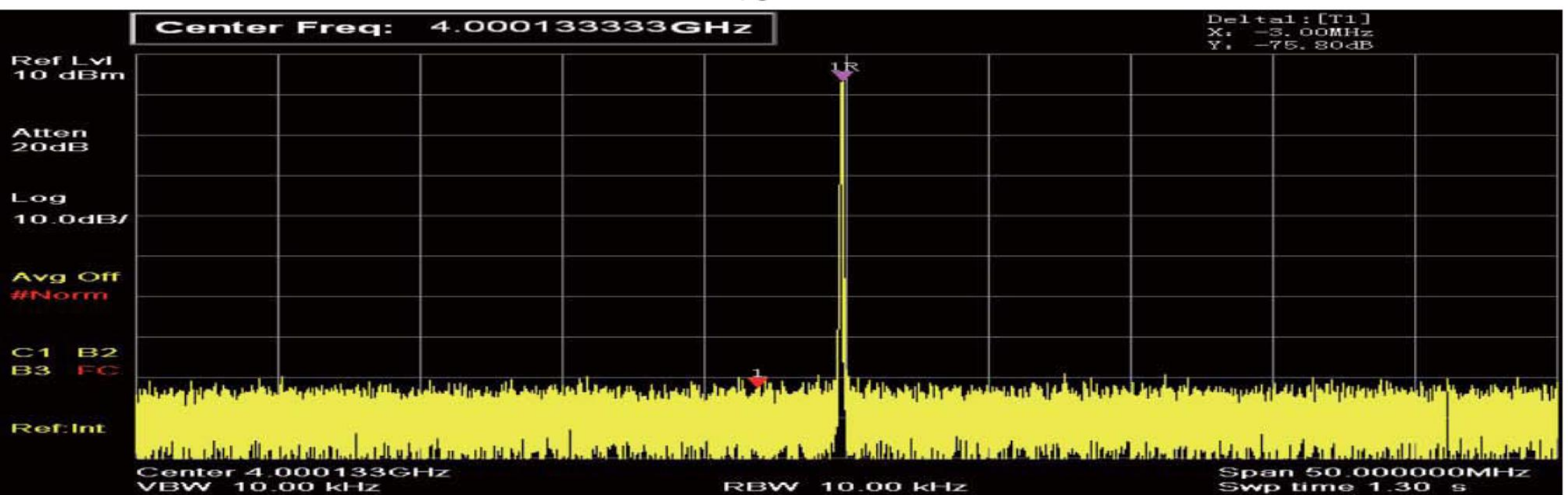




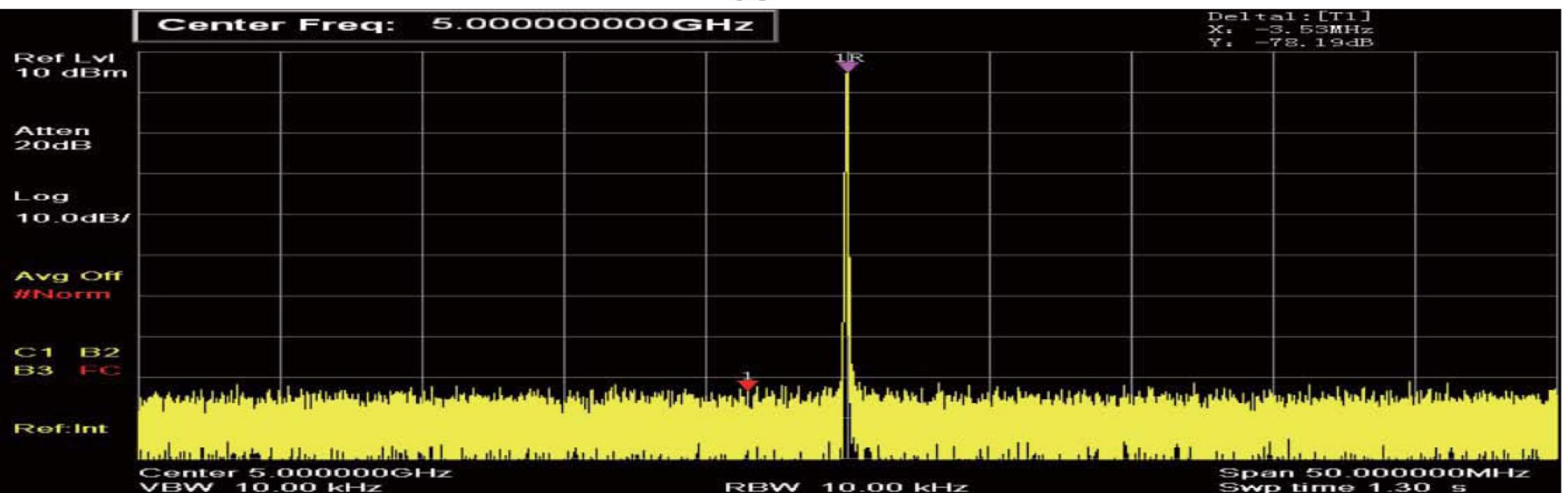
3G



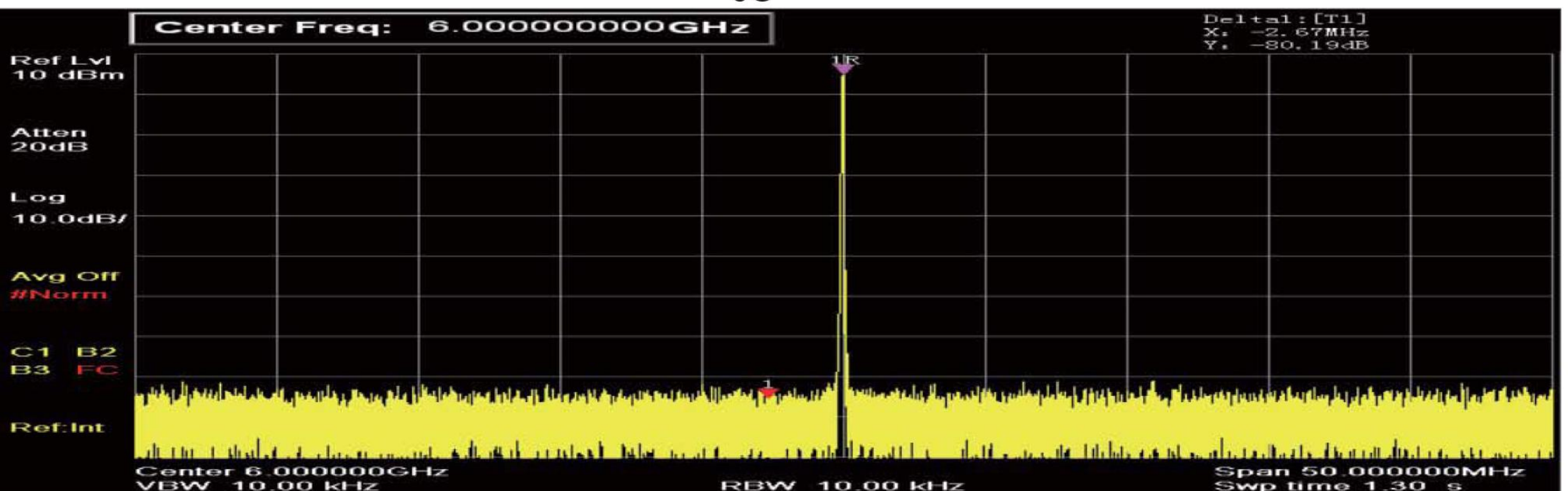
4G



5G

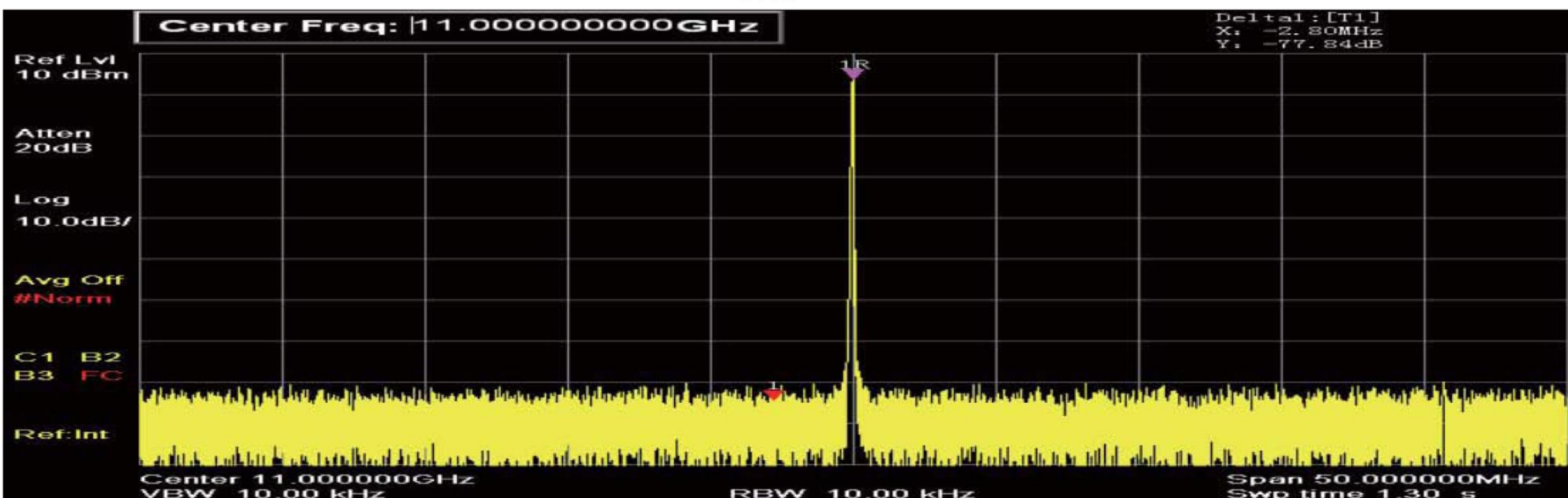


6G

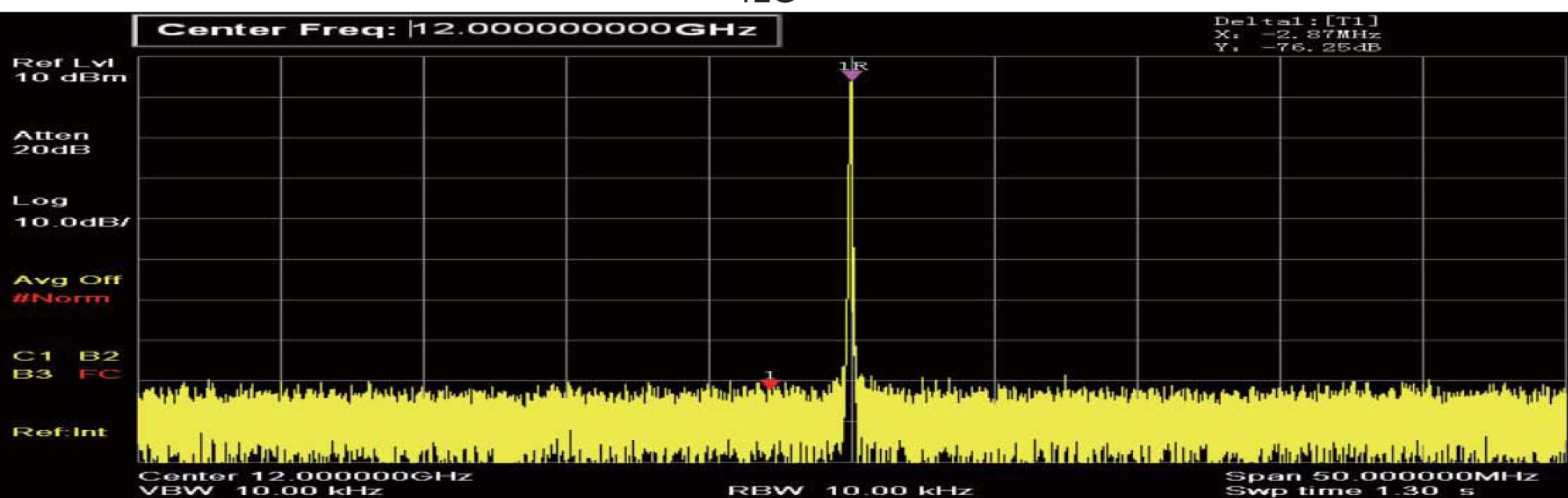




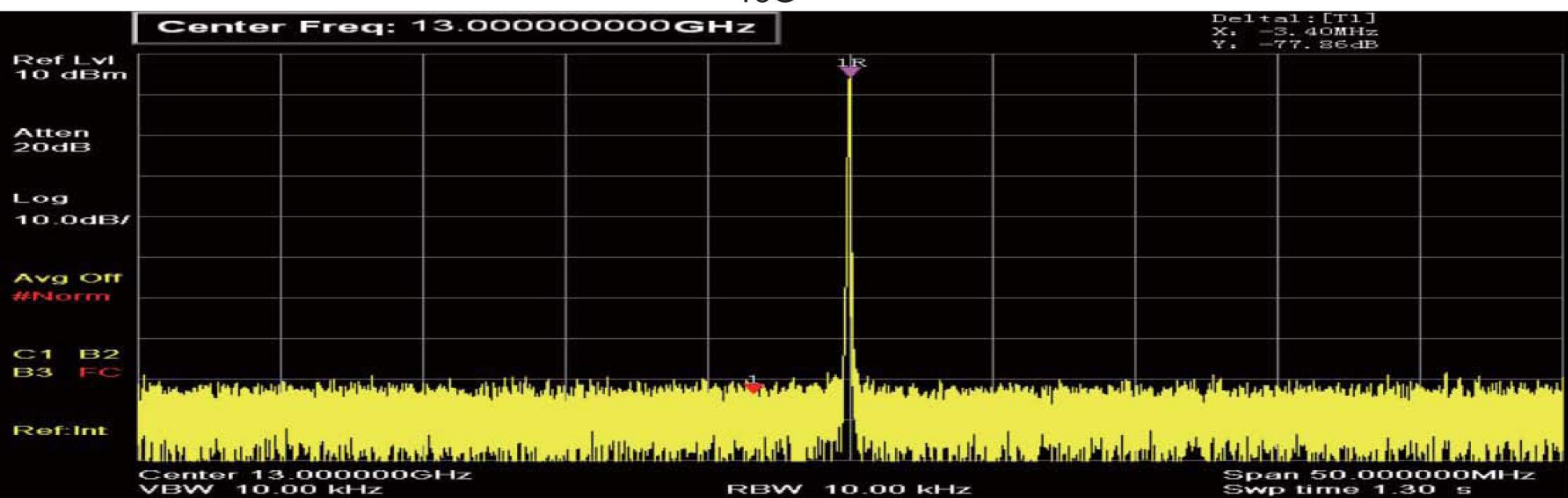
11G



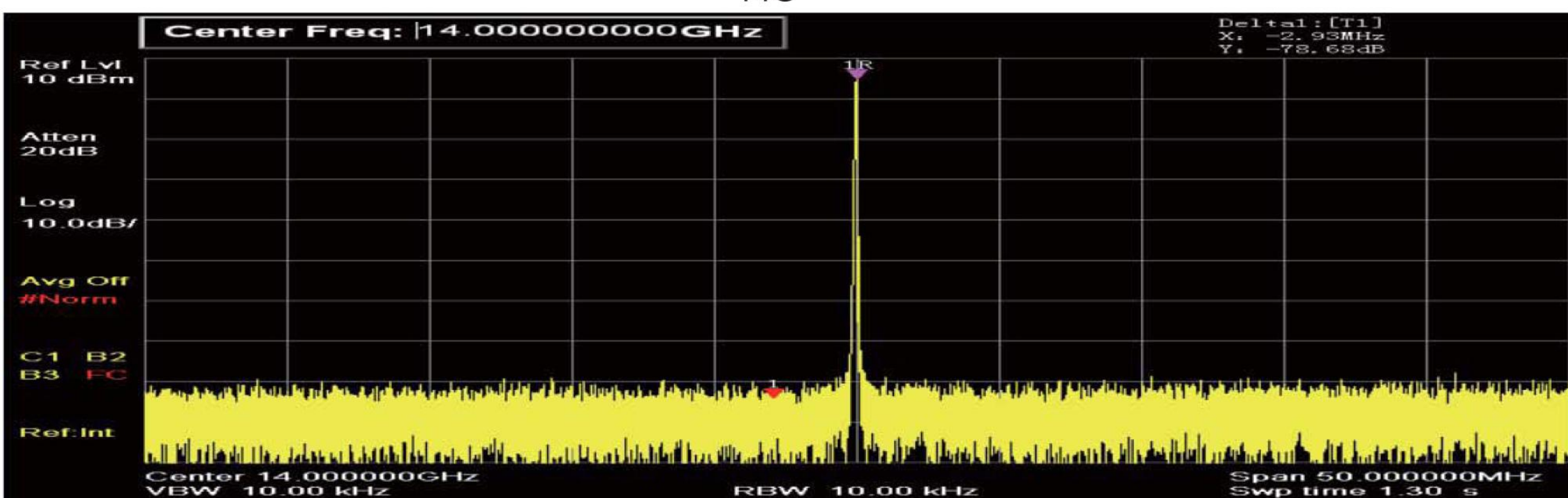
12G



13G

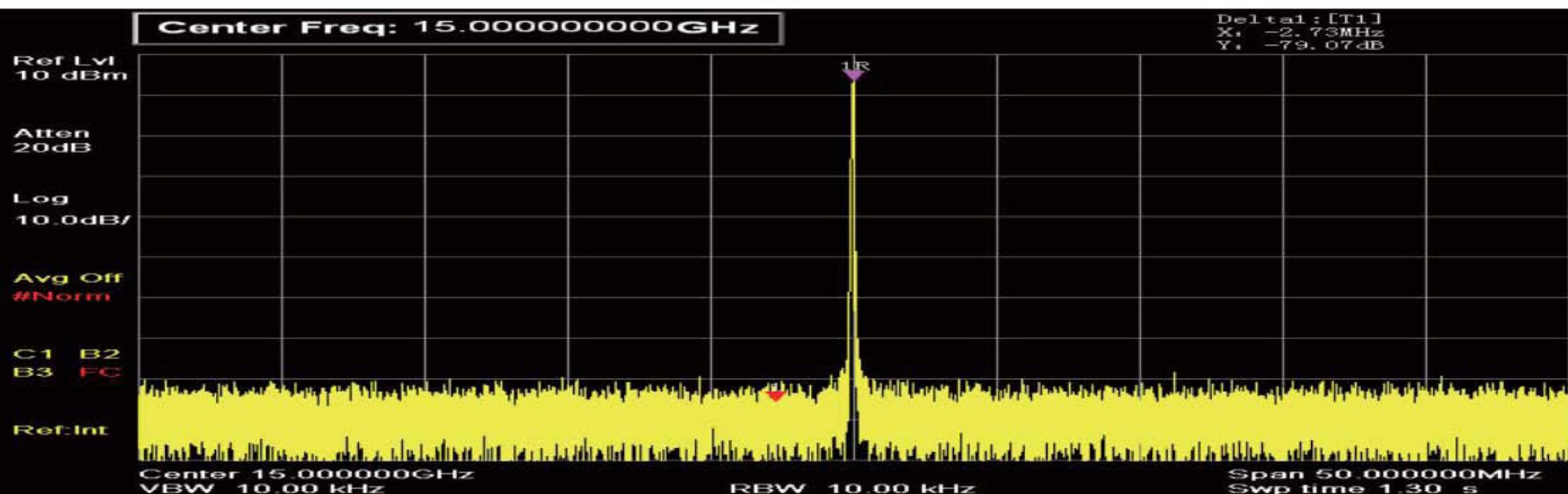


14G

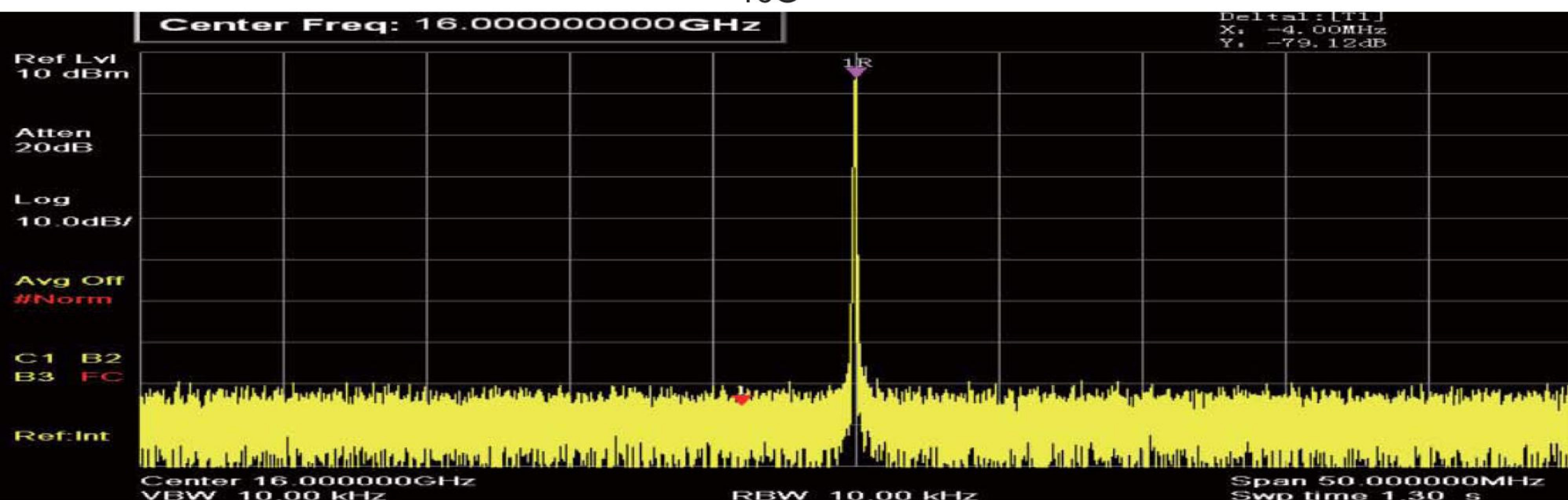




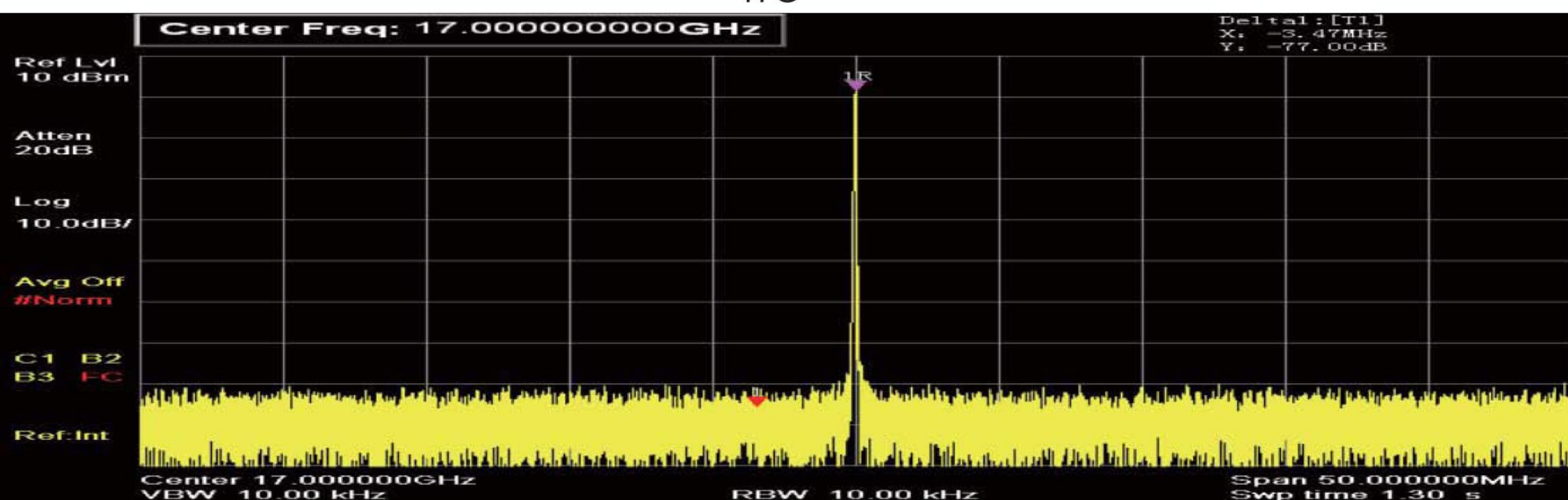
15G



16G



17G



18G

