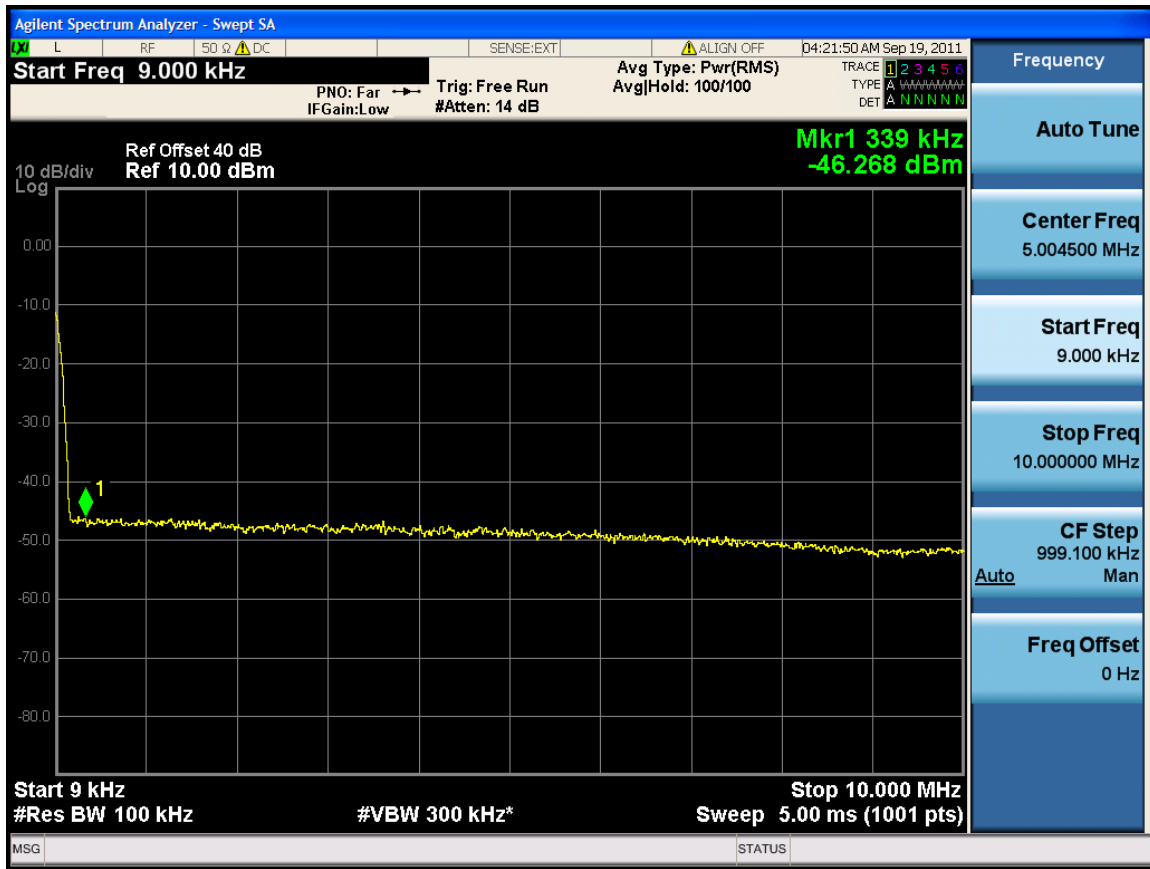
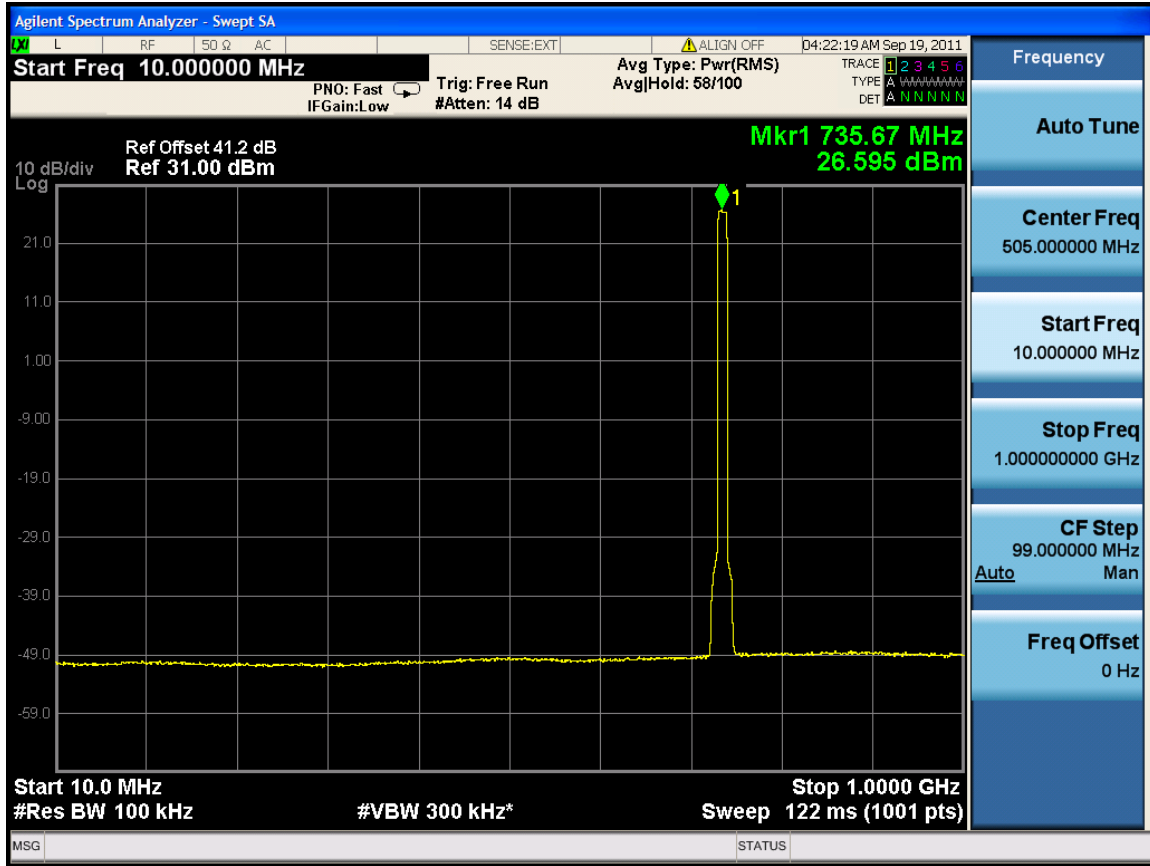
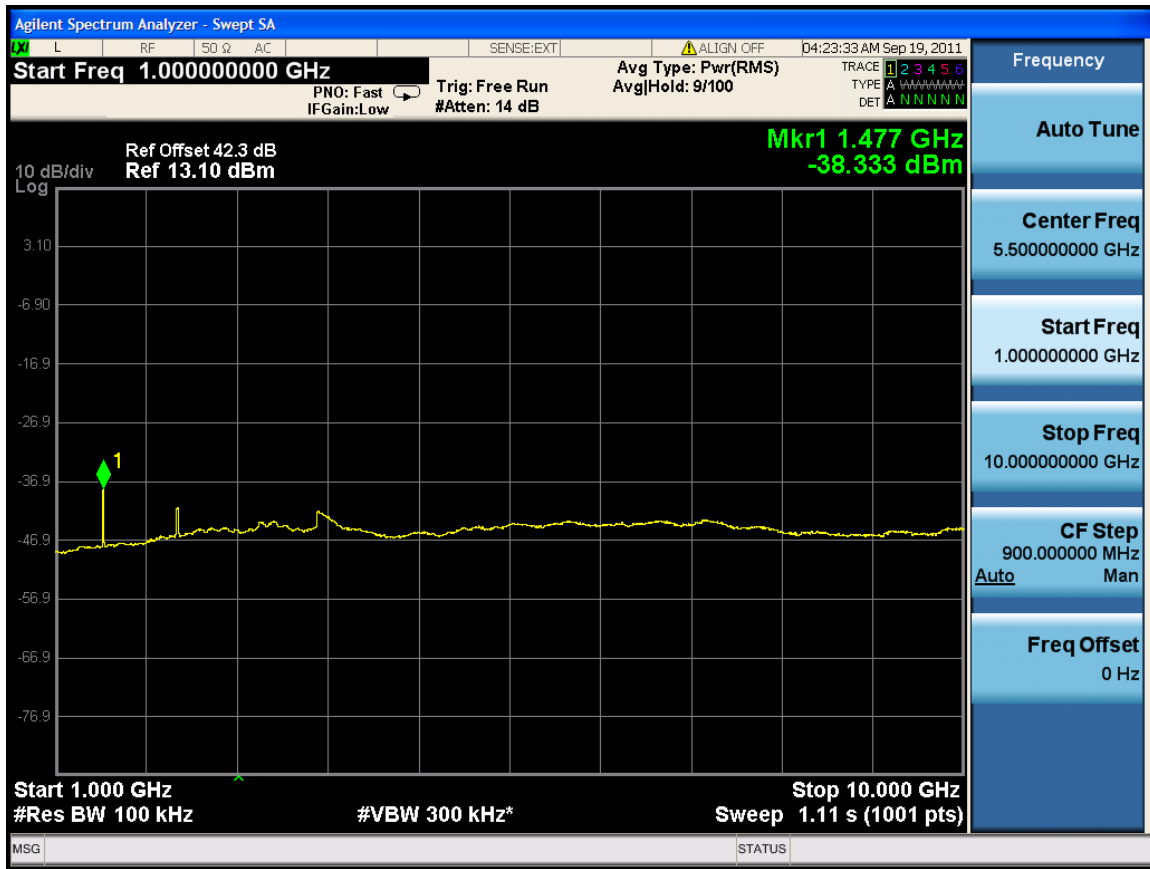
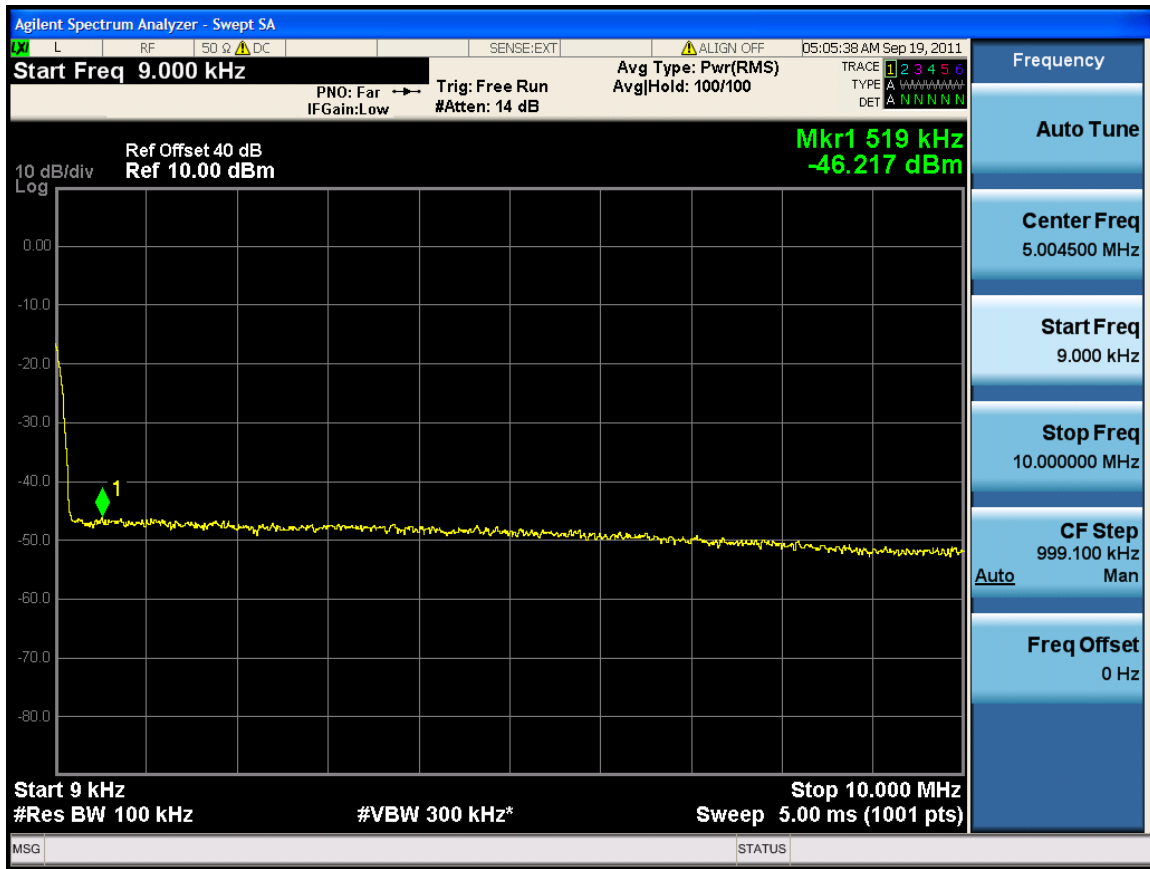


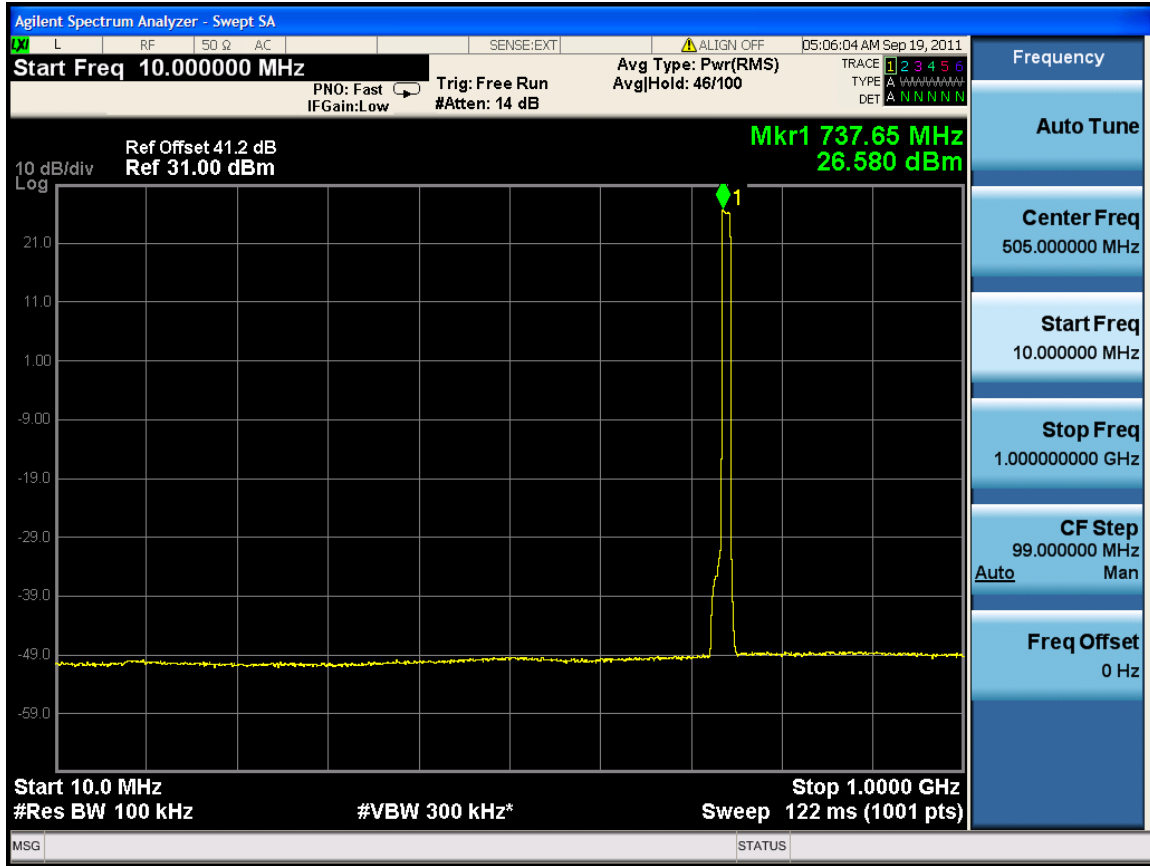


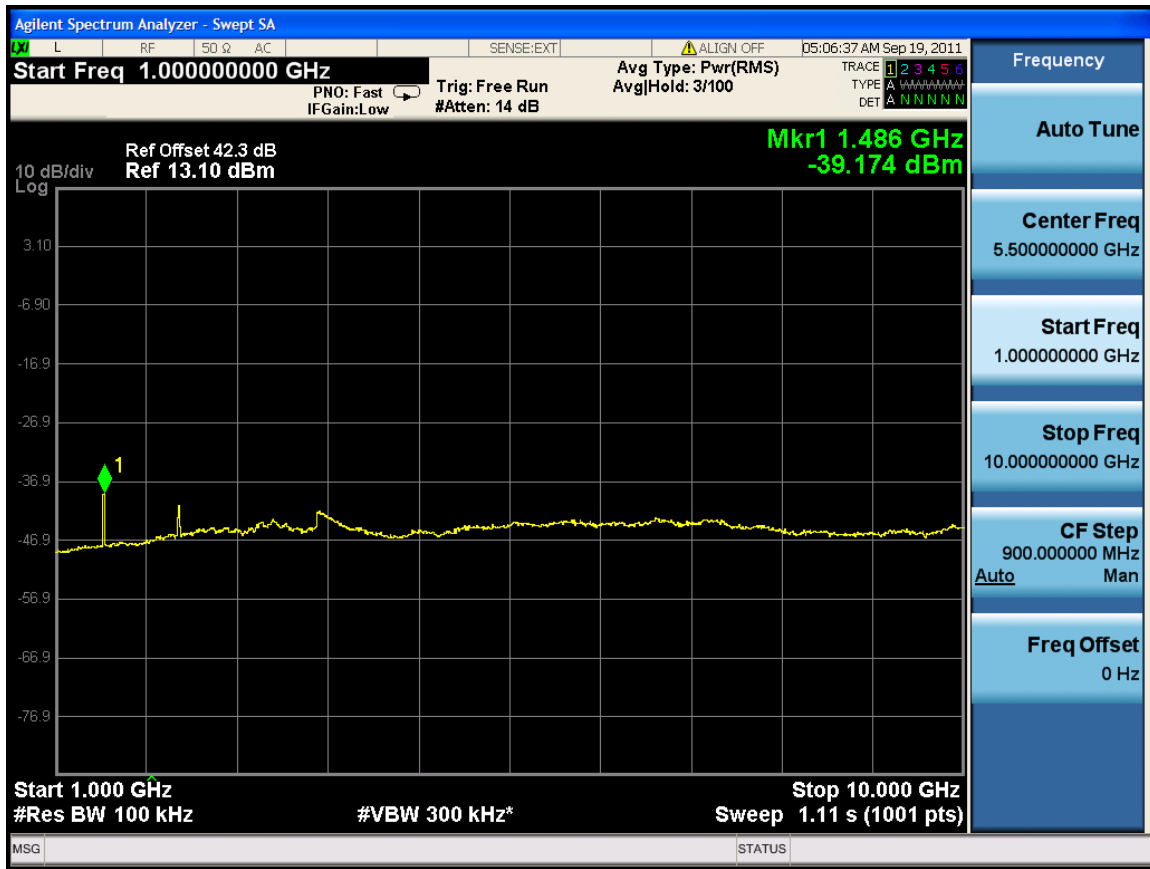




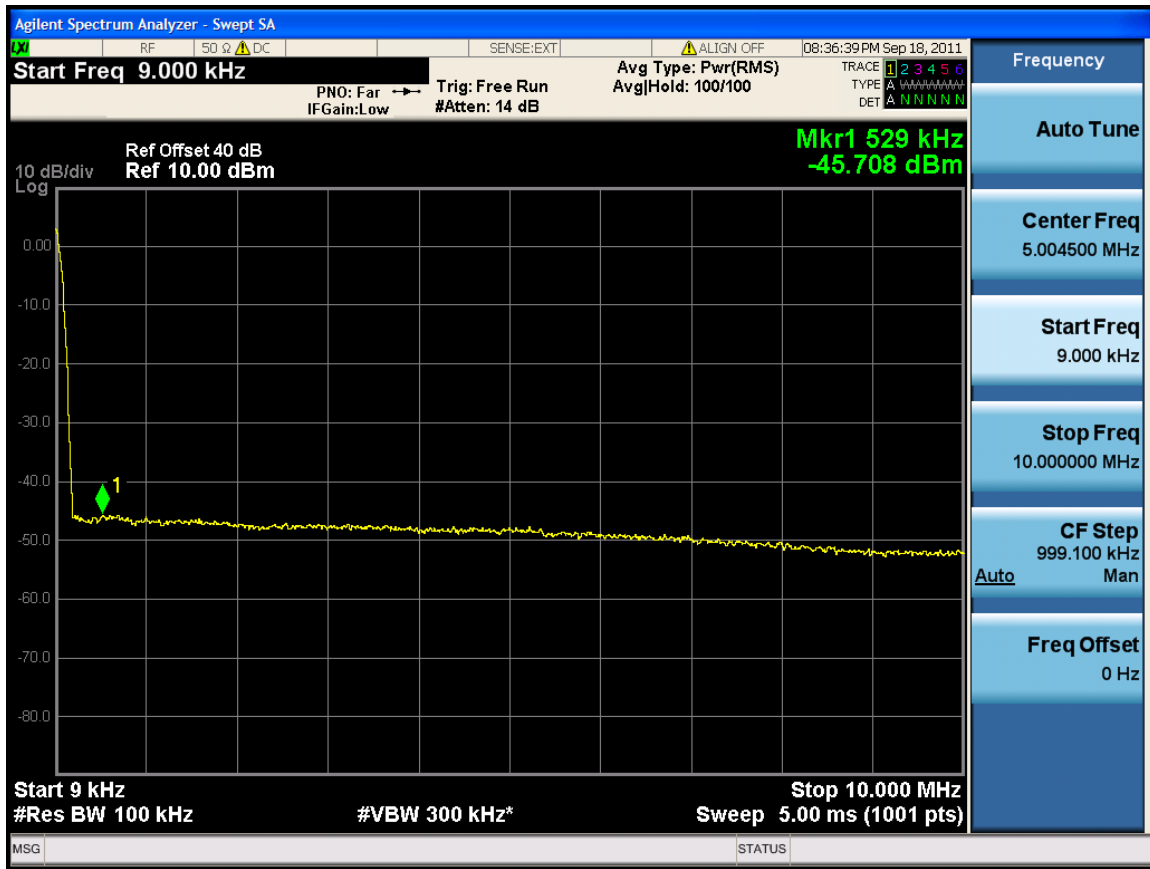
10M-Port 1 -741MHz

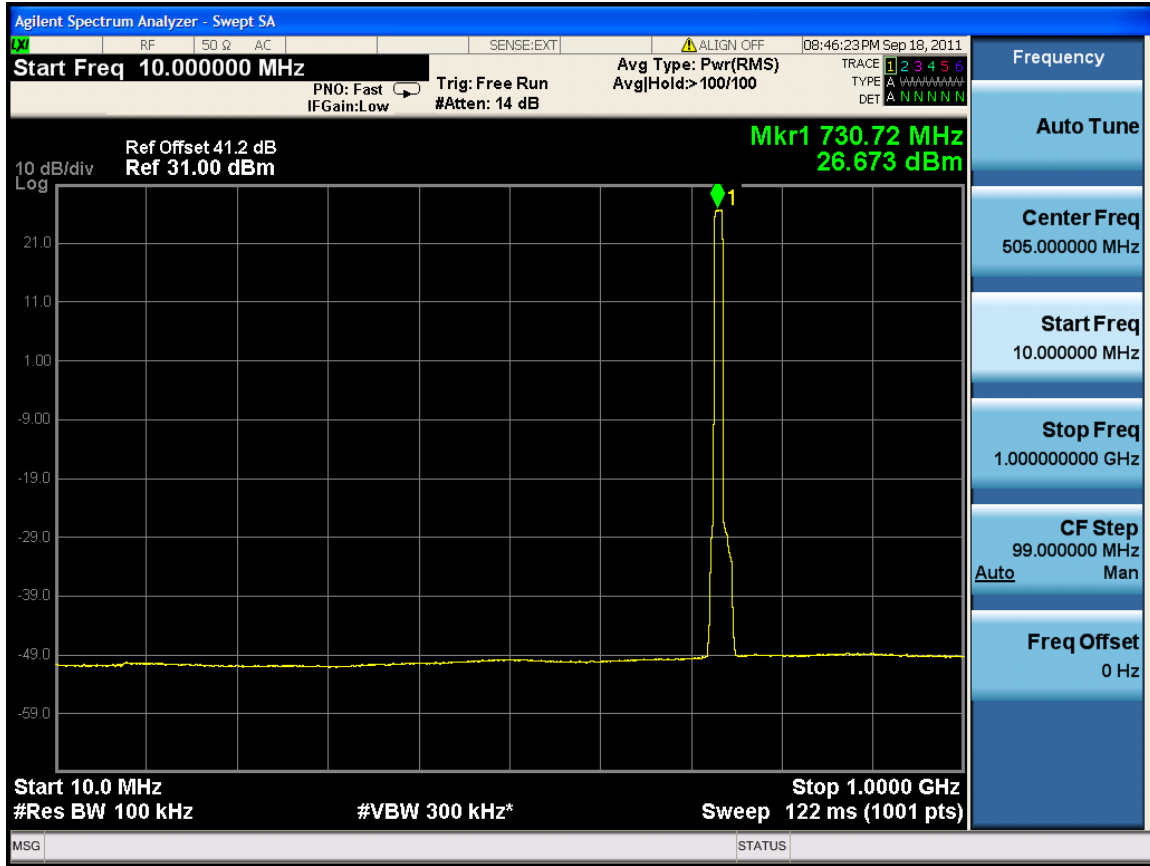


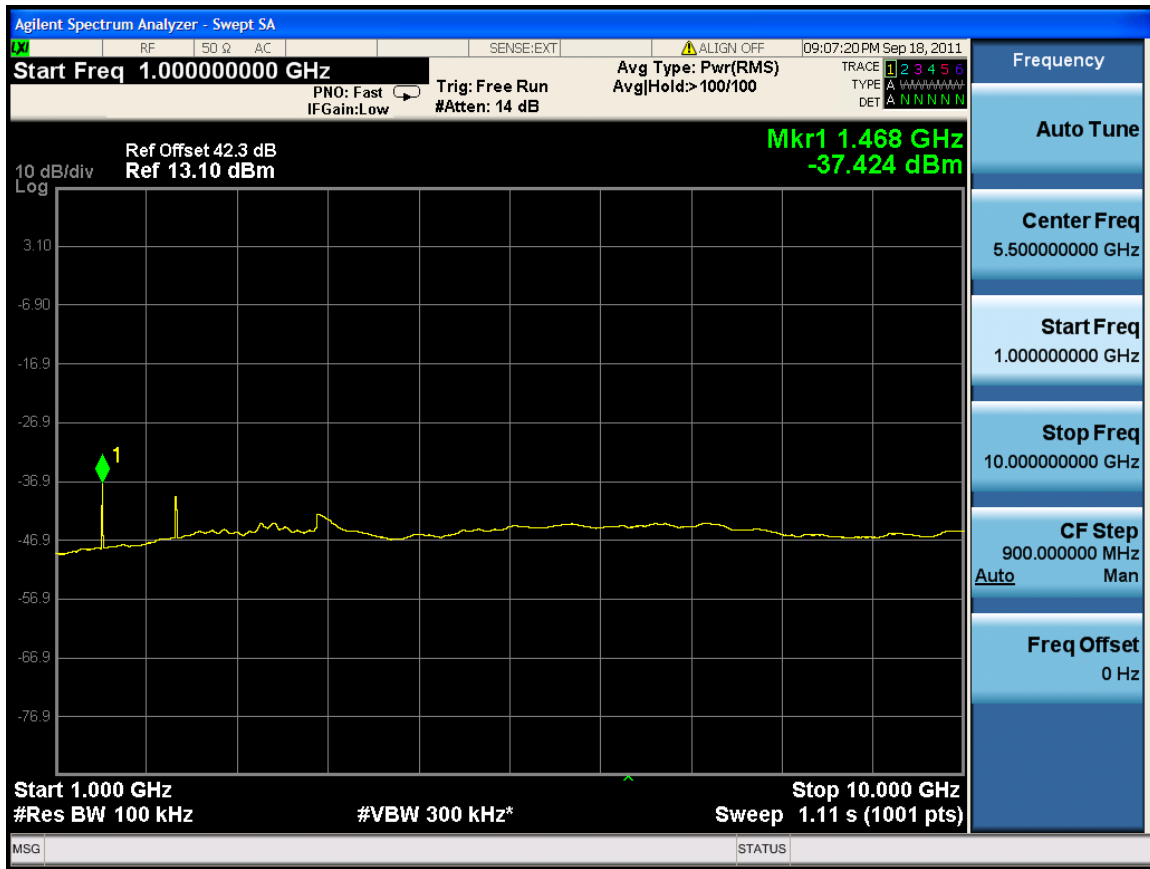




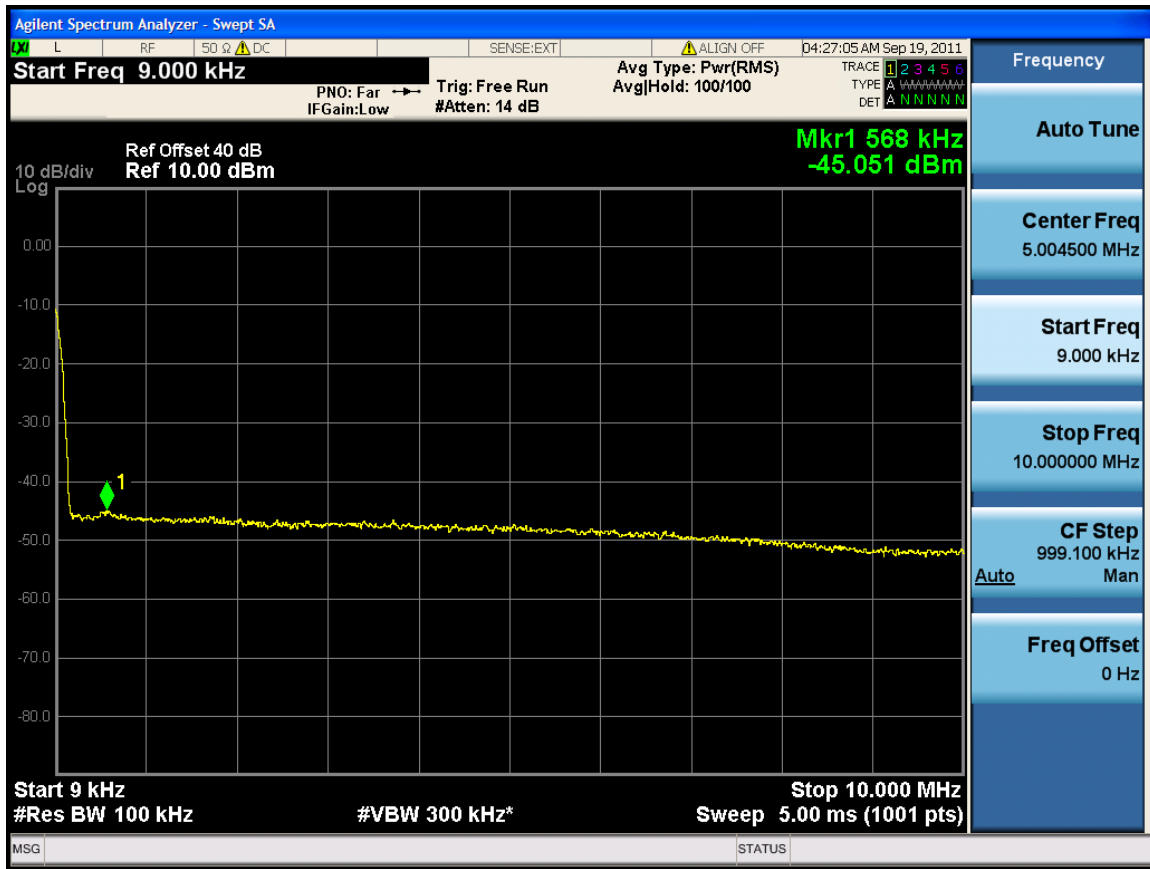
10M-Port 2 -733MHz

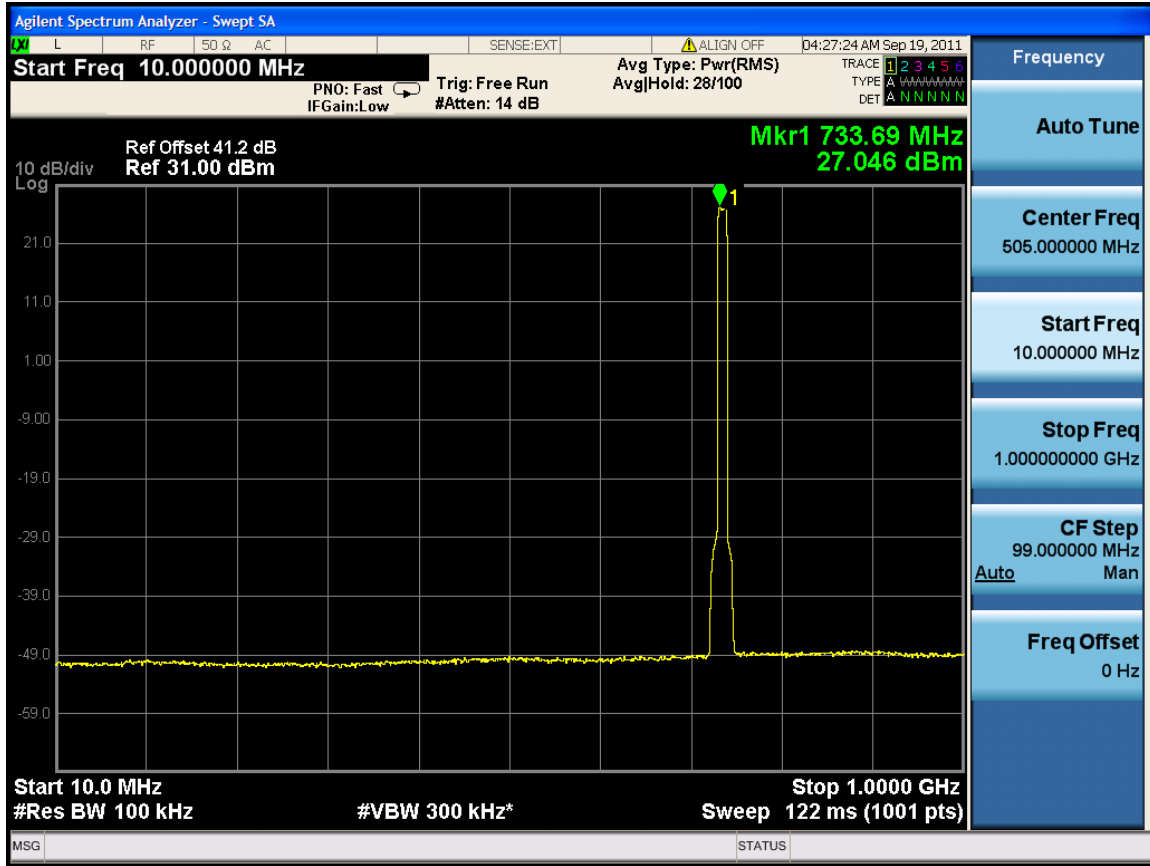


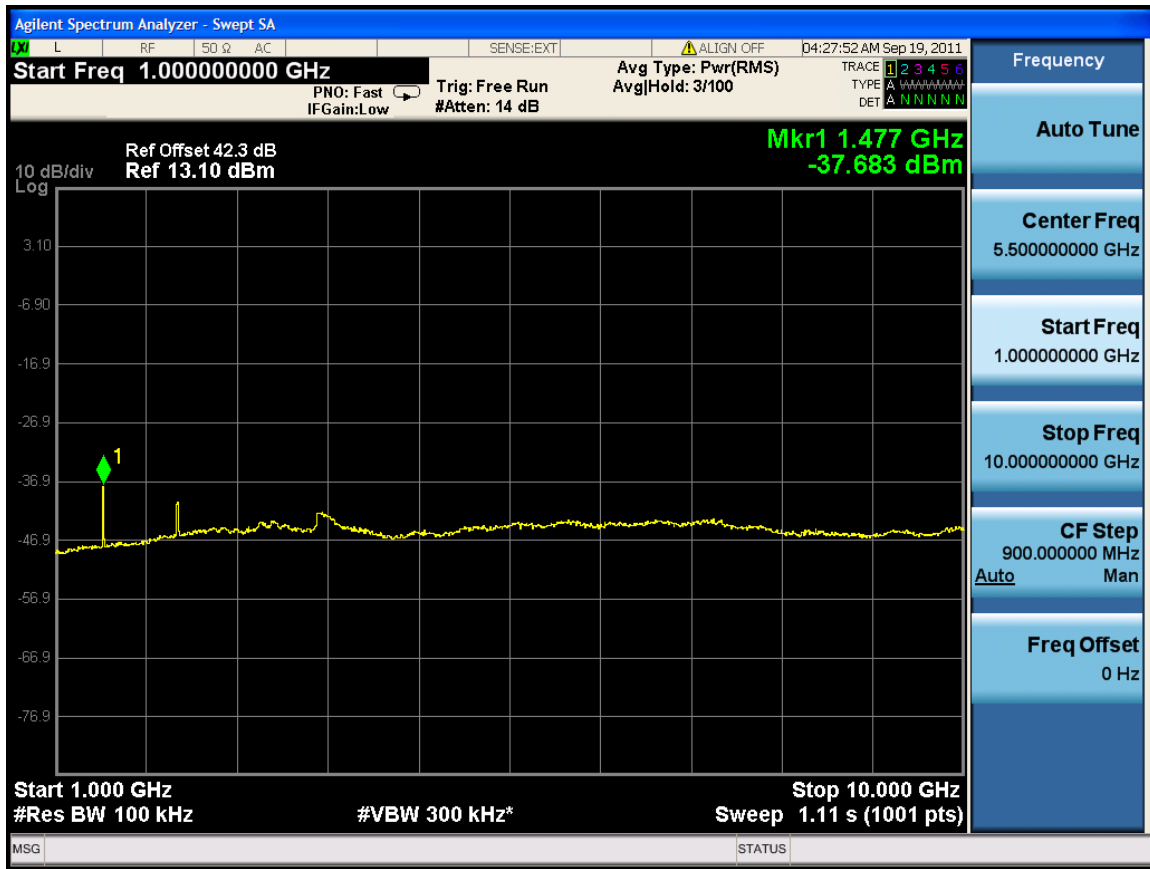




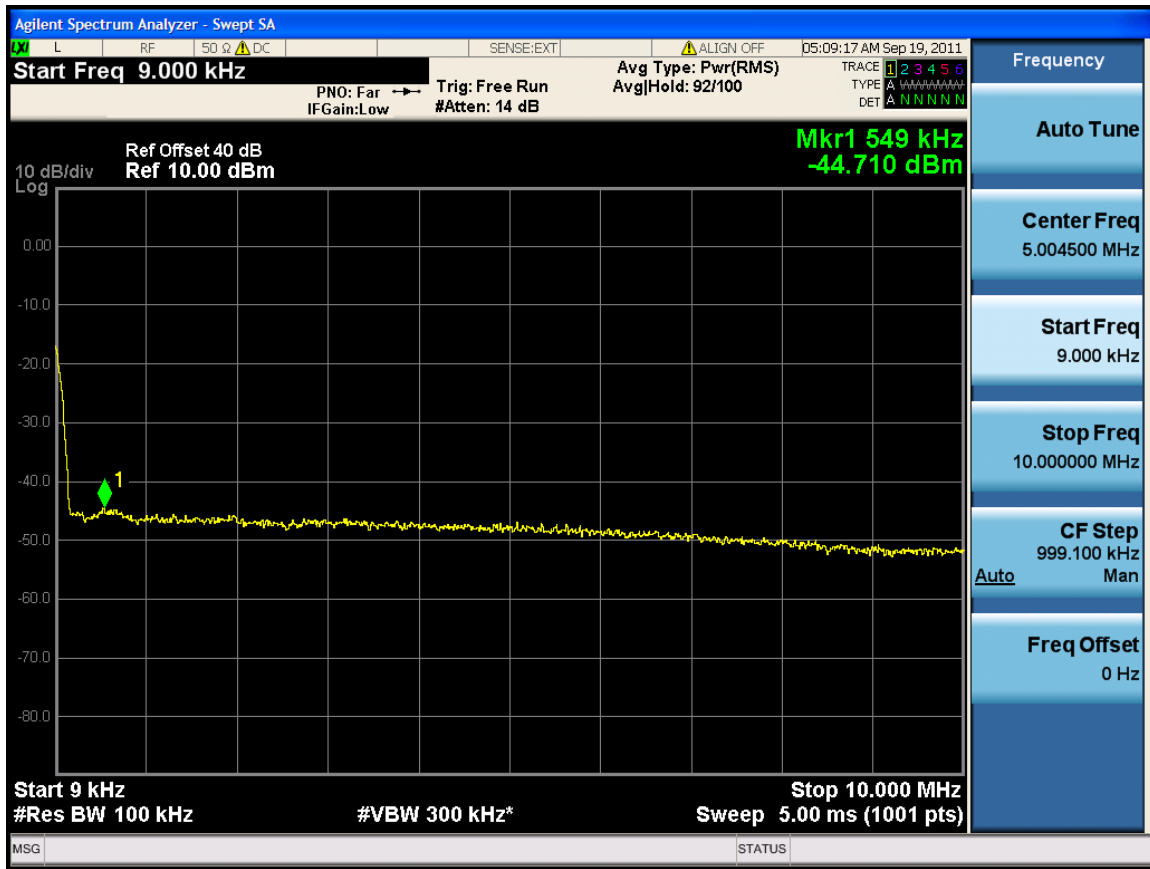
10M-Port 2 -737MHz

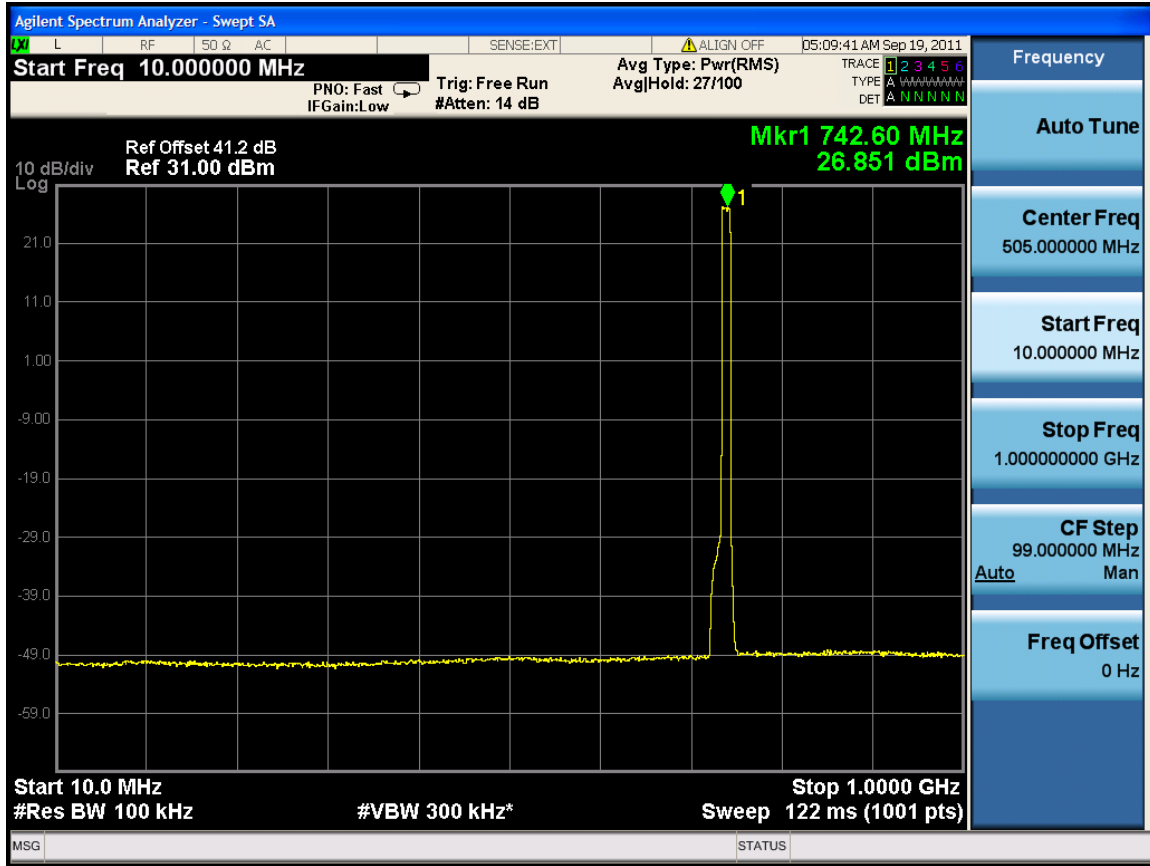


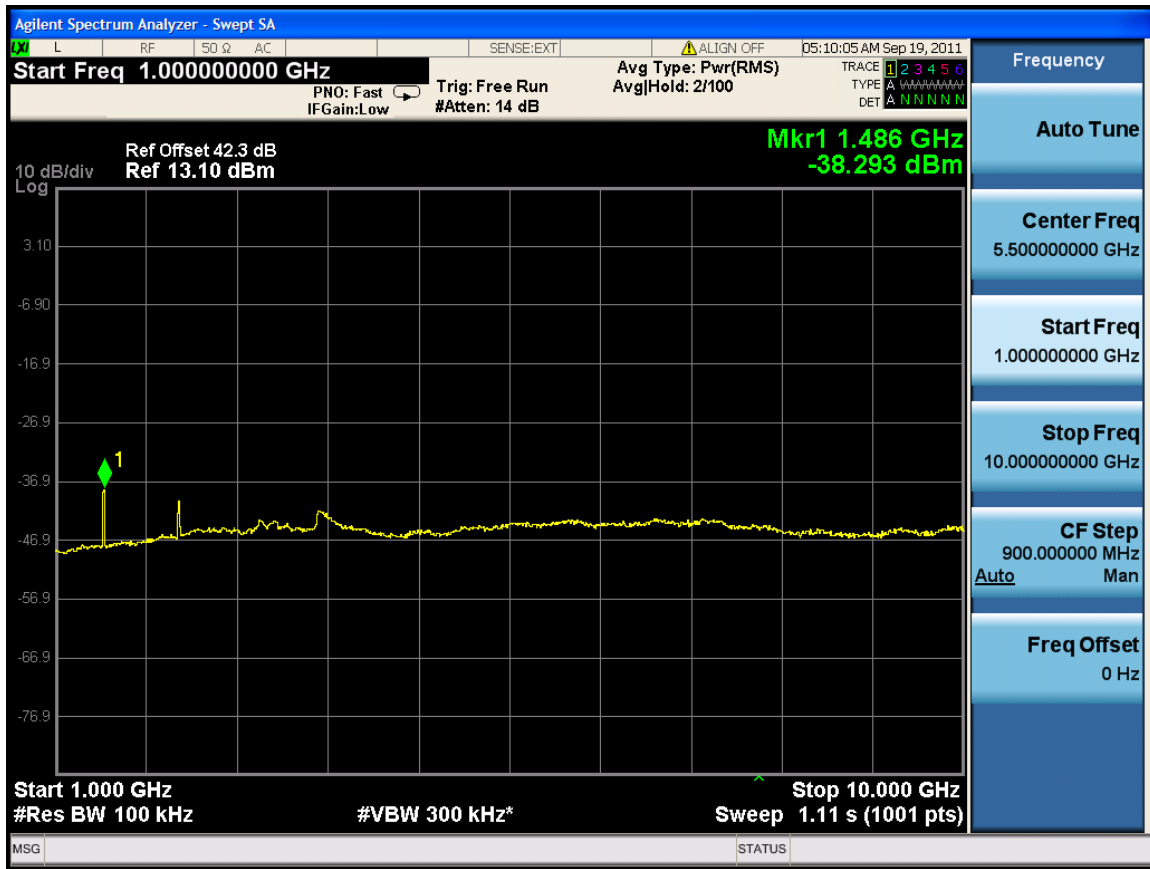




10M-Port 2 -741MHz

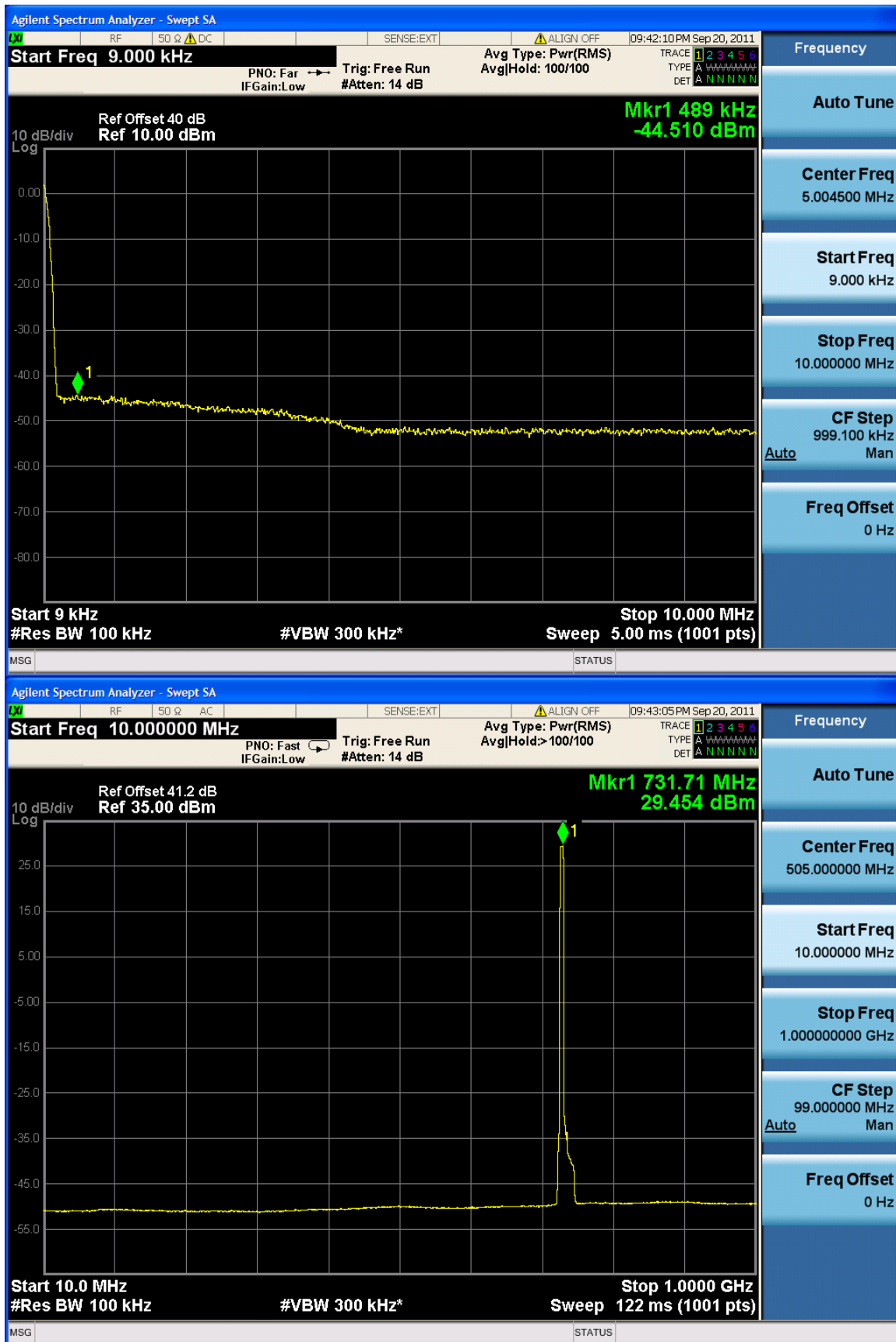


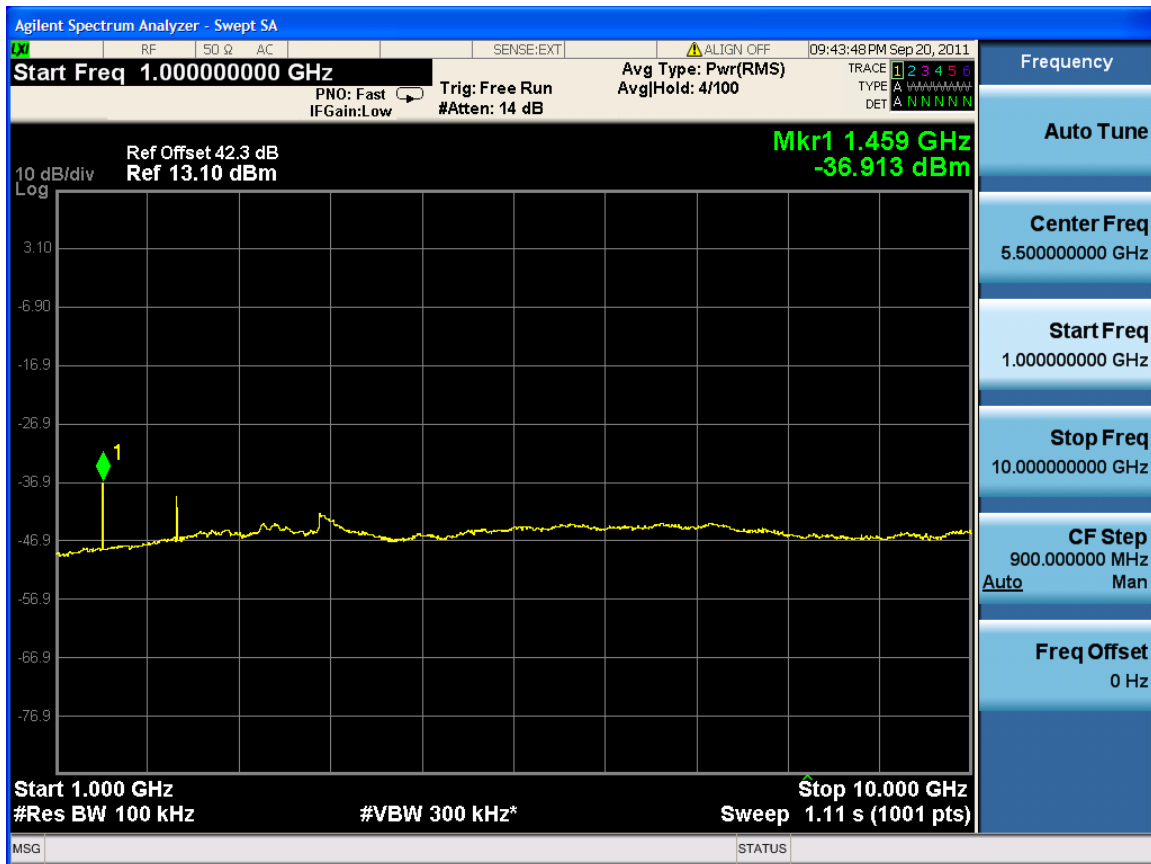




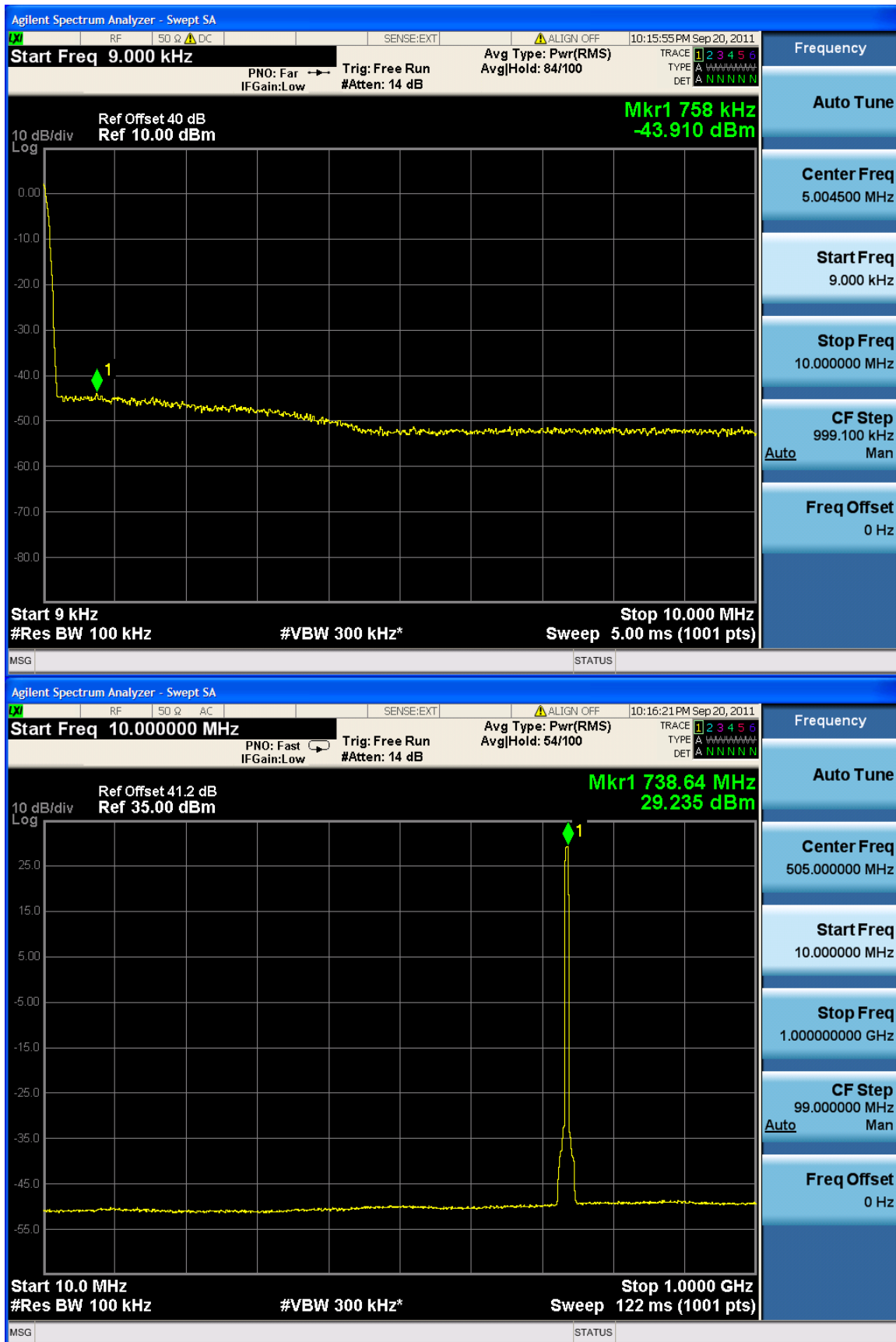
Channel Bandwidth :5M

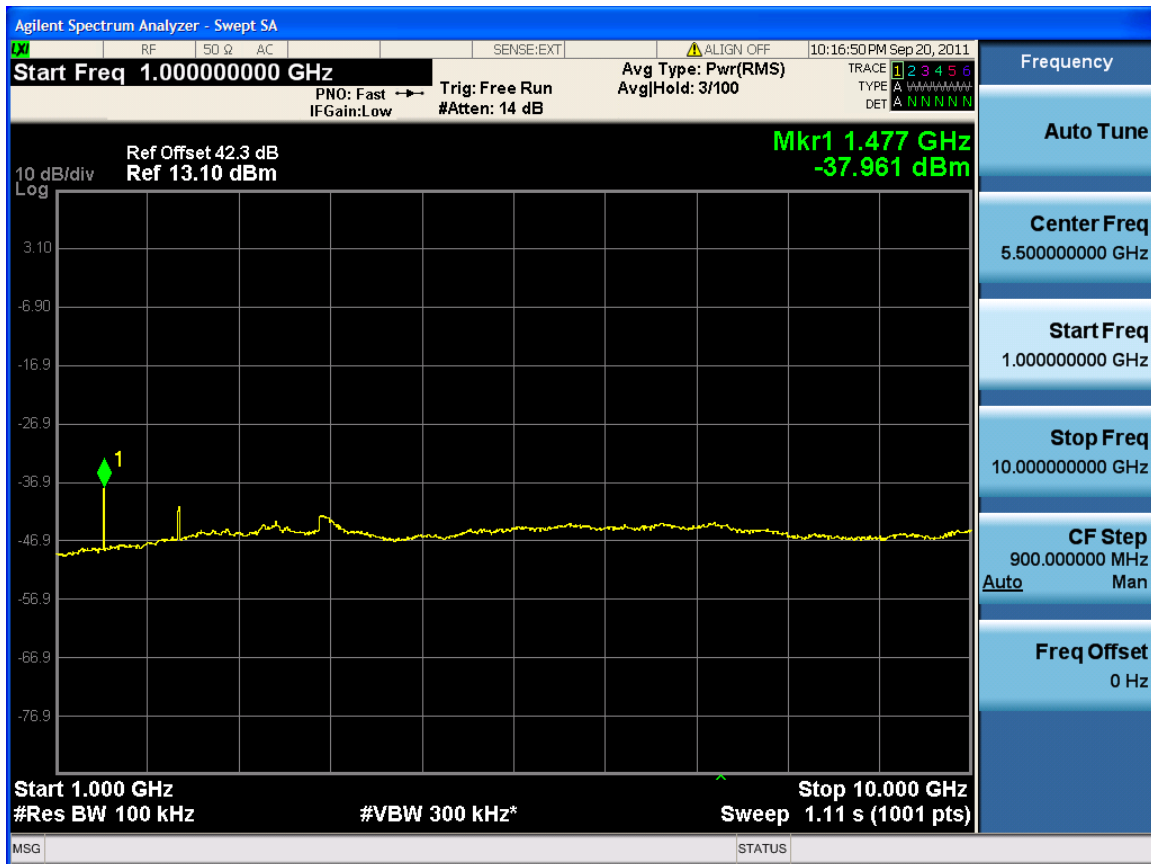
5M-Port 1 -730.5MHz



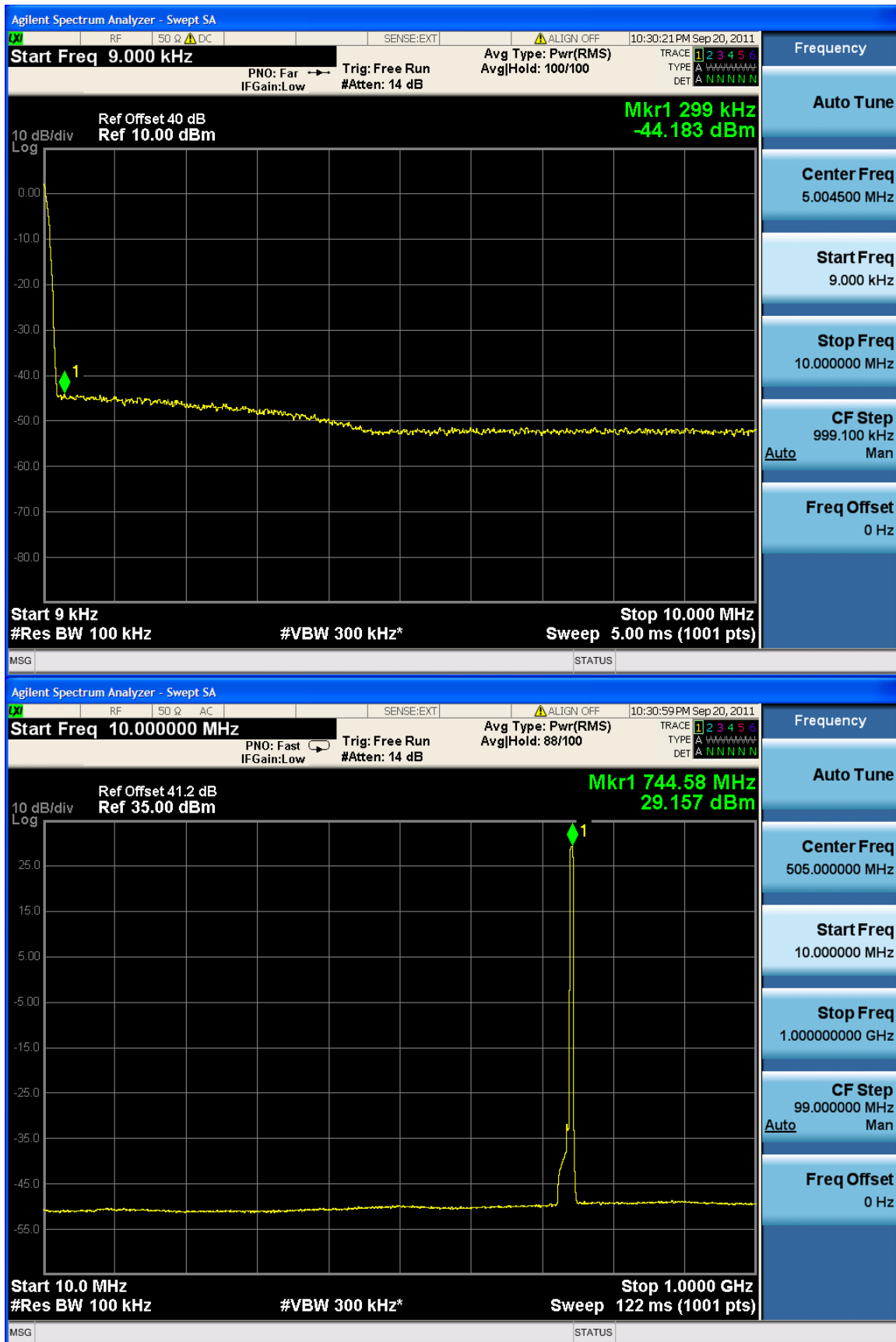


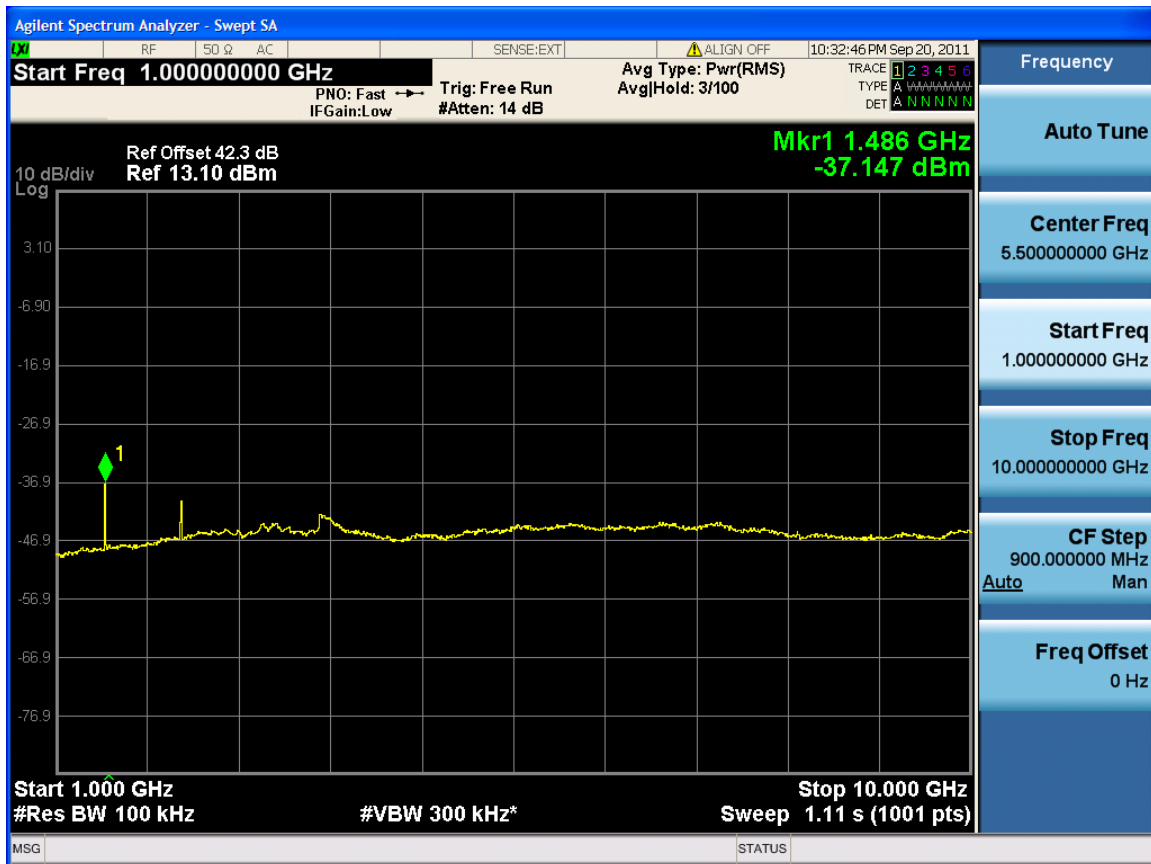
5M-Port 1 -737MHz



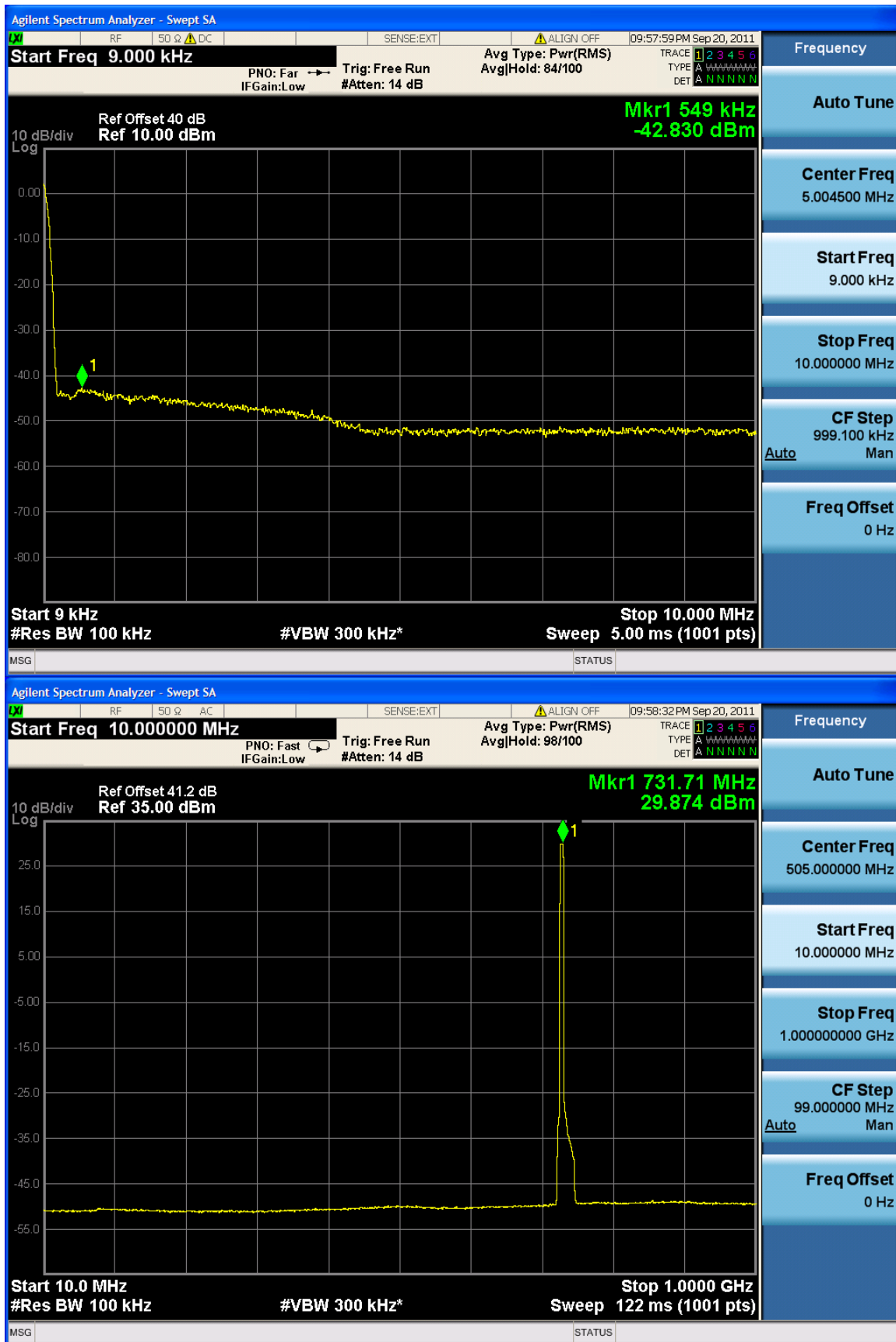


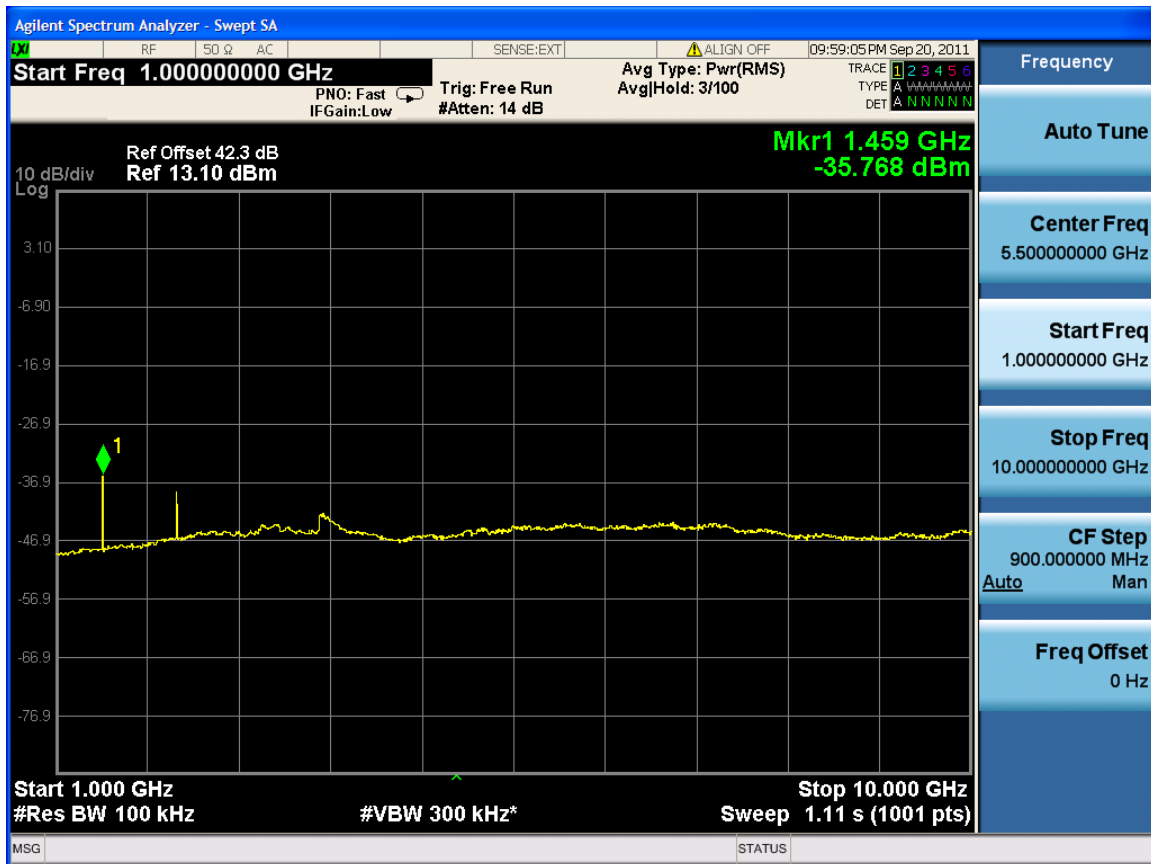
5M-Port 1 -743.5MHz



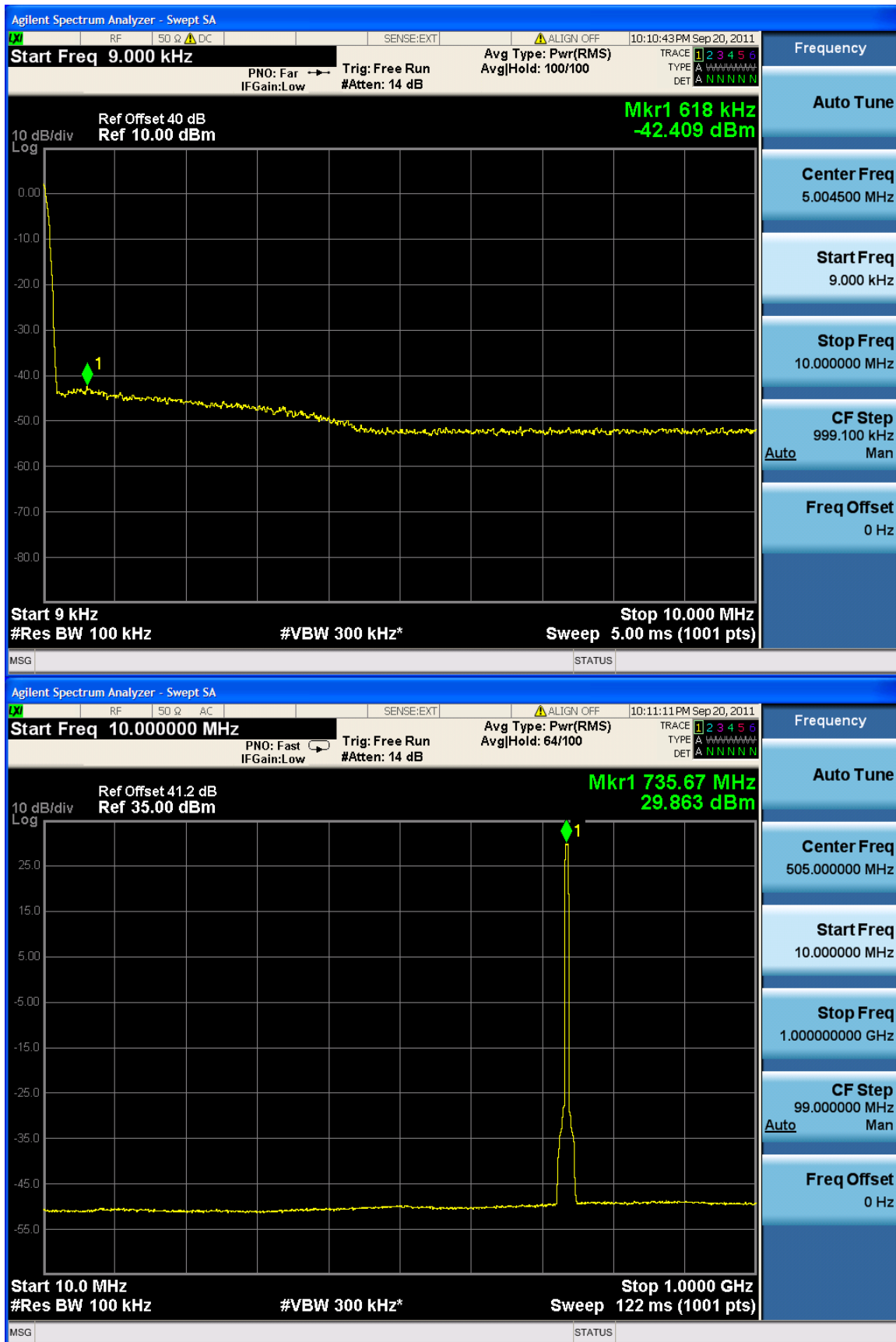


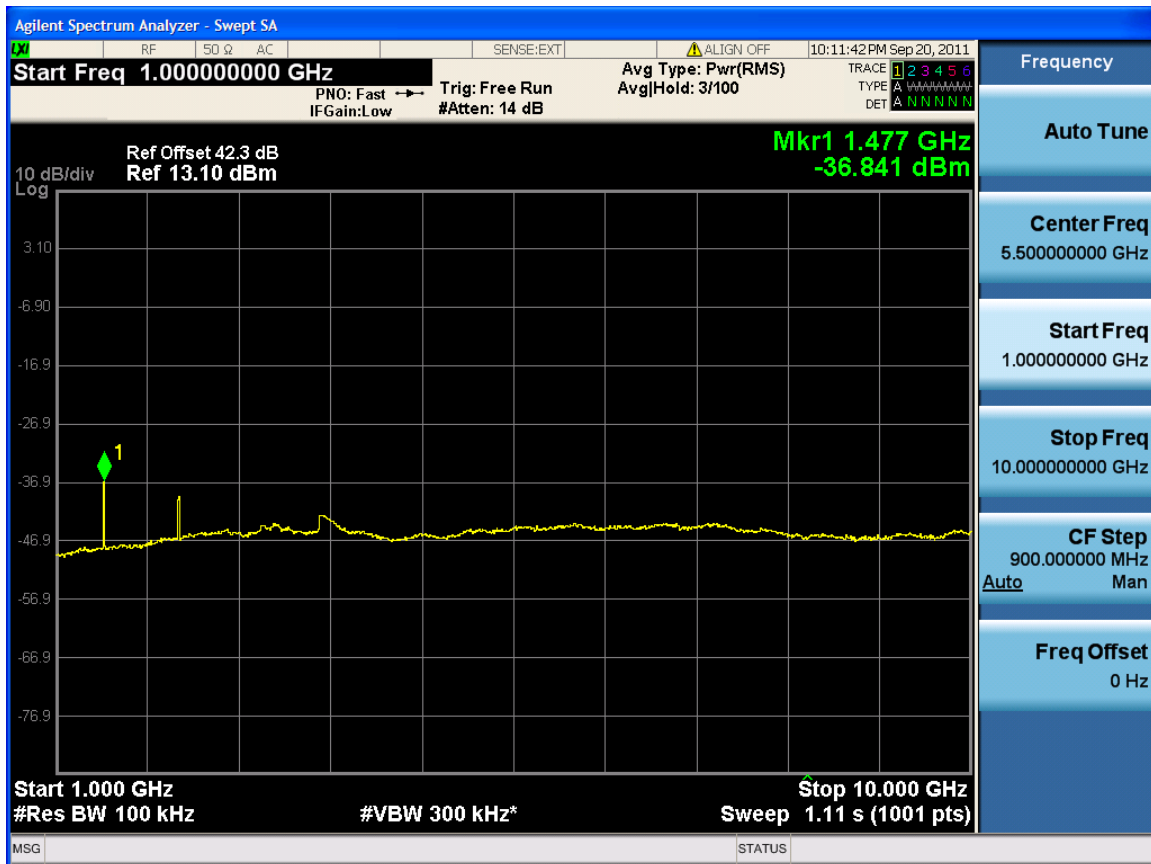
5M-Port 2 -730.5MHz



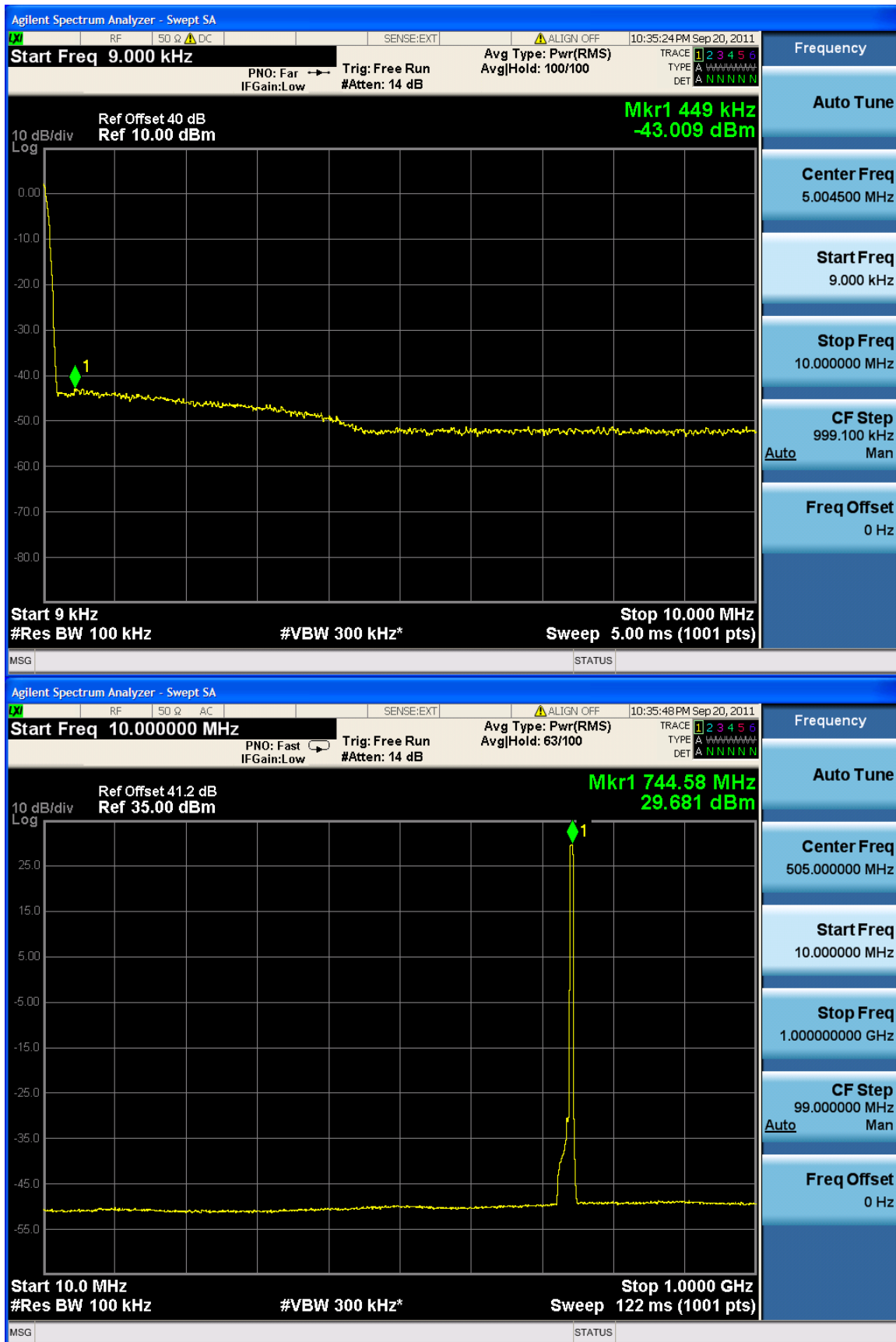


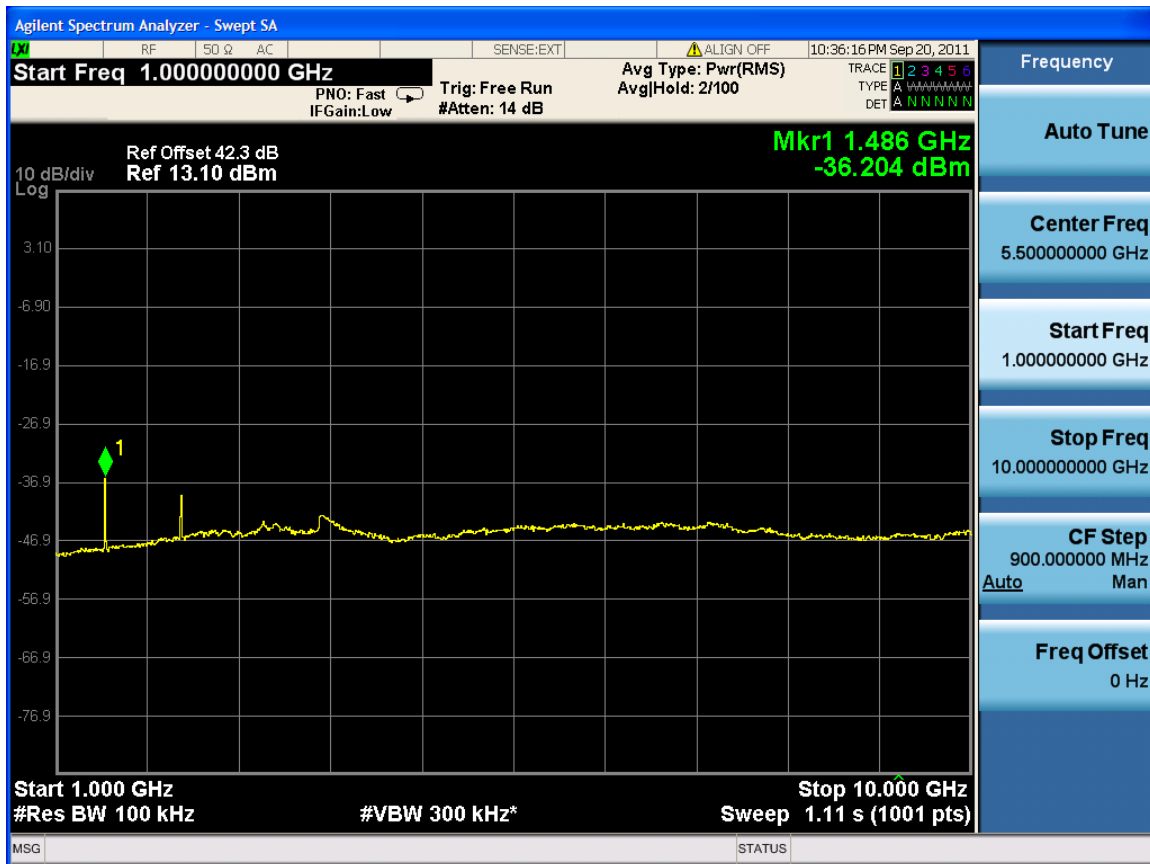
5M-Port 2 -737MHz





5M-Port 2 -743.5MHz





## 10 OCCUPIED BANDWIDTH

**Applicable Standard:** FCC §2.1049

### Test Equipment List and Details:

| Manufacturer | Description                  | Model         | Serial Number | Calibration Date | Calibration Due Date |
|--------------|------------------------------|---------------|---------------|------------------|----------------------|
| Agilent      | MXA Series Spectrum Analyzer | N9030A        | MY49431143    | 2015.09.26       | 2016.09.14           |
| DTS          | DTS 40dB Attenuator          | DTS100-40-3-1 | 09112005      | 2015.07.19       | 2016.07.19           |

**\*statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

## Test Procedure

The RF out of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation. 99%Power bandwidth was recorded.

## Environmental Conditions

|                    |          |
|--------------------|----------|
| Temperature:       | 20 ° C   |
| Relative Humidity: | 53%      |
| ATM Pressure:      | 1009mbar |

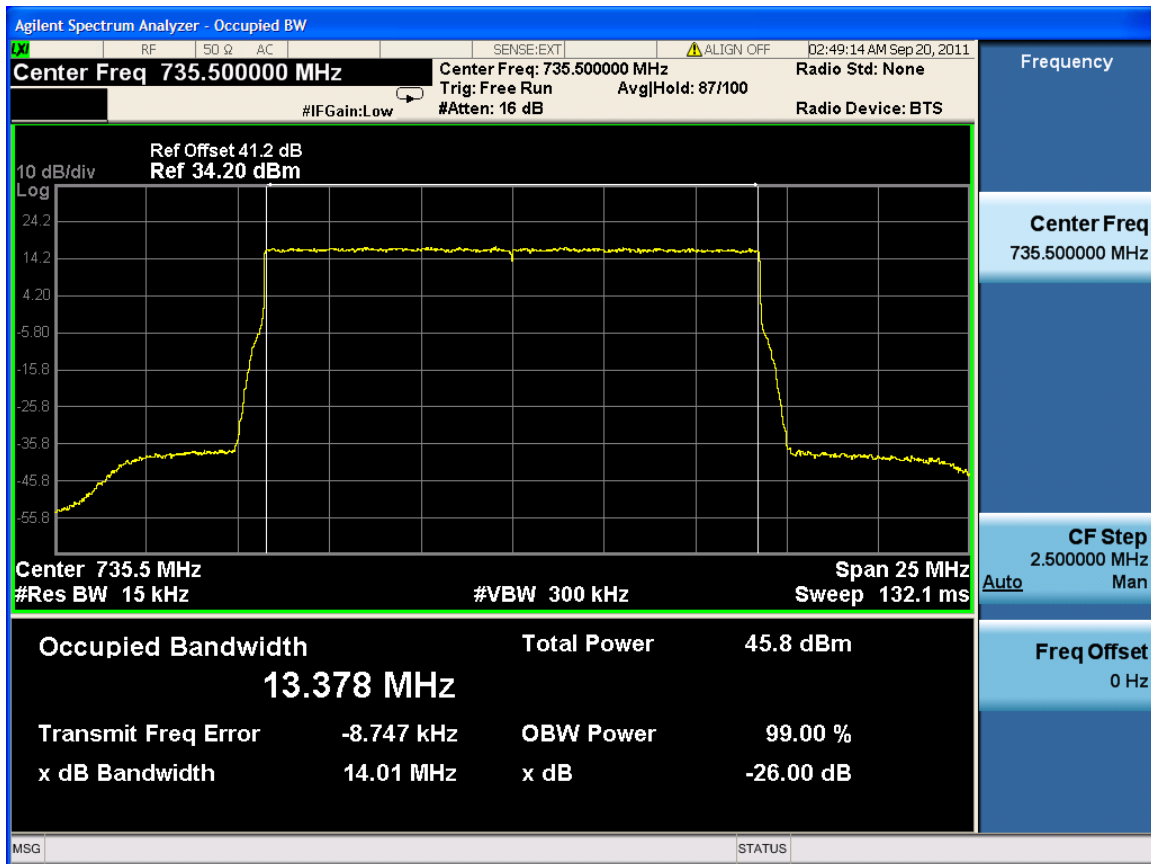
**Test Result:** Pass

**Test Mode:** Transmitting LTE

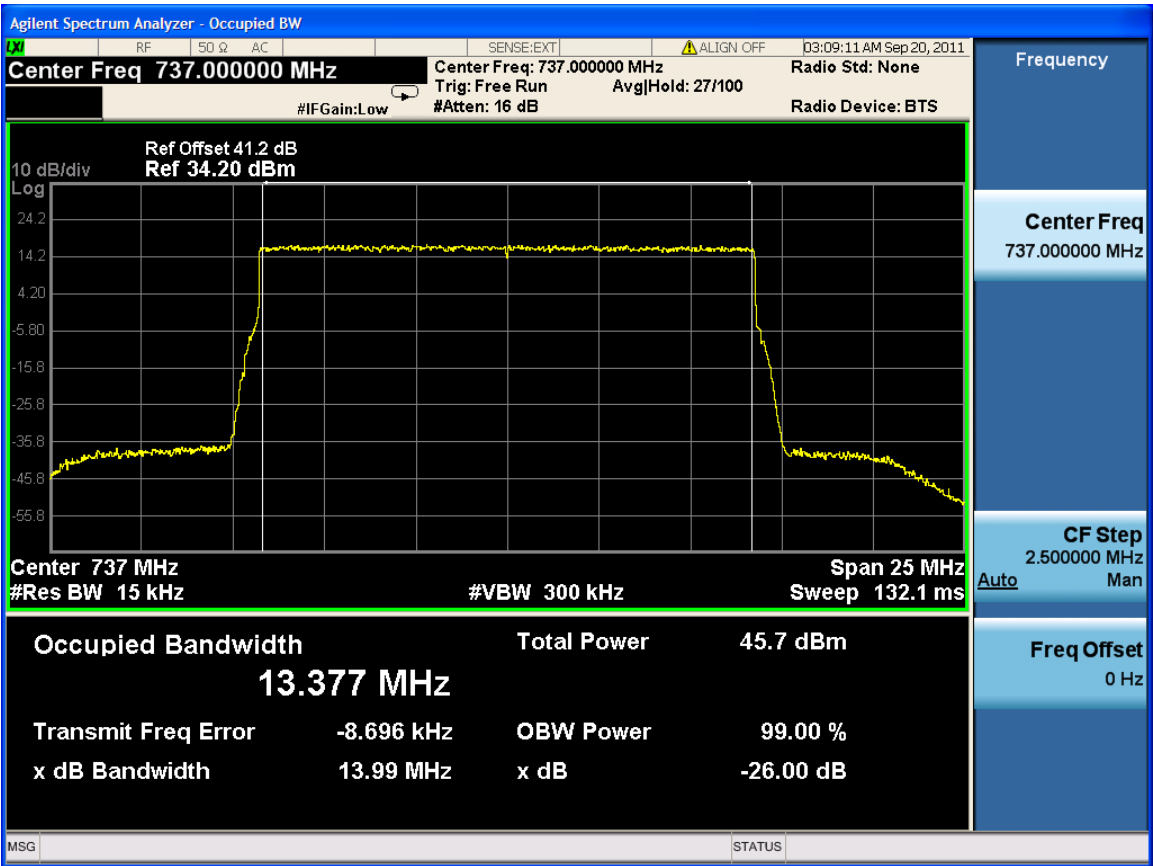
## Test Data

| Channel Bandwidth :15M |                    |                           |             |
|------------------------|--------------------|---------------------------|-------------|
| Port                   | Center Freq. (MHz) | 99% Power Bandwidth (MHz) | Limit (MHz) |
| 1                      | 735.5              | 13.378                    | 15          |
|                        | 737                | 13.377                    | 15          |
|                        | 738.5              | 13.381                    | 15          |
| 2                      | 735.5              | 13.378                    | 15          |
|                        | 737                | 13.383                    | 15          |
|                        | 738.5              | 13.374                    | 15          |

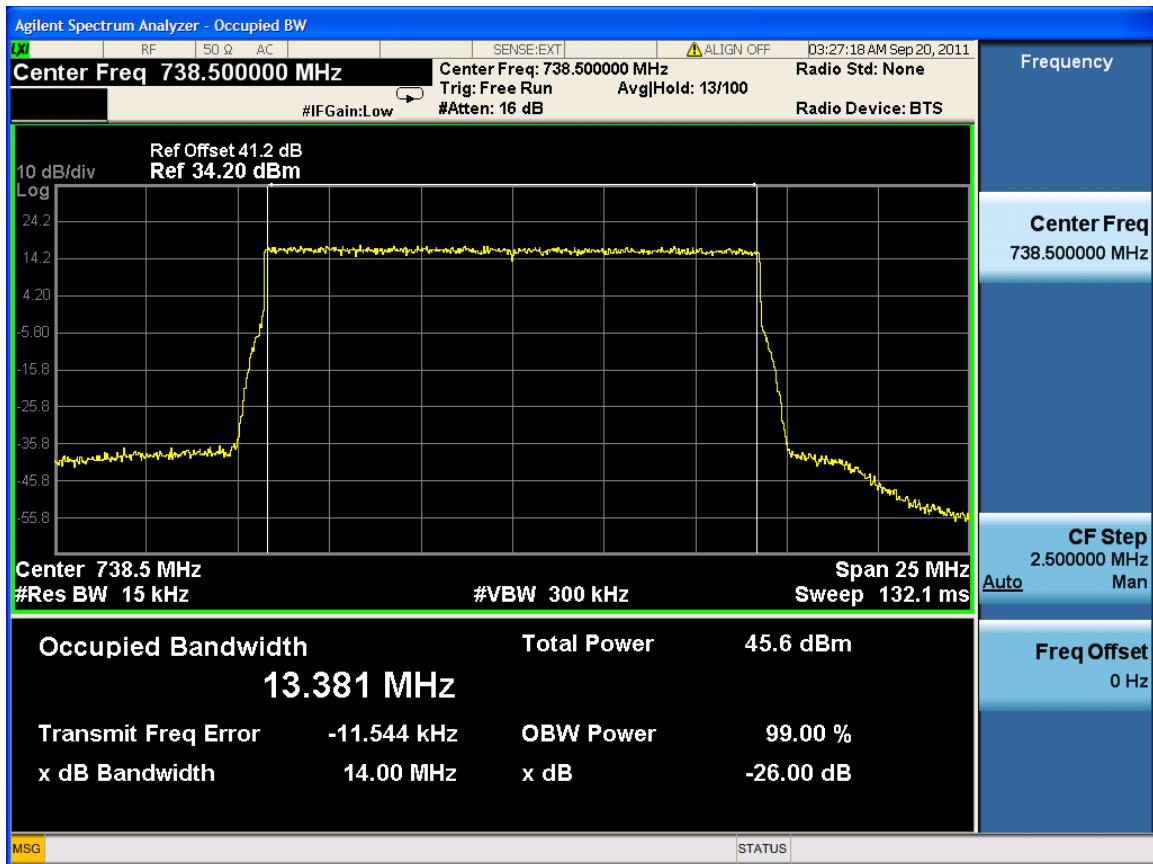
15M-Port 1 -735.5MHz



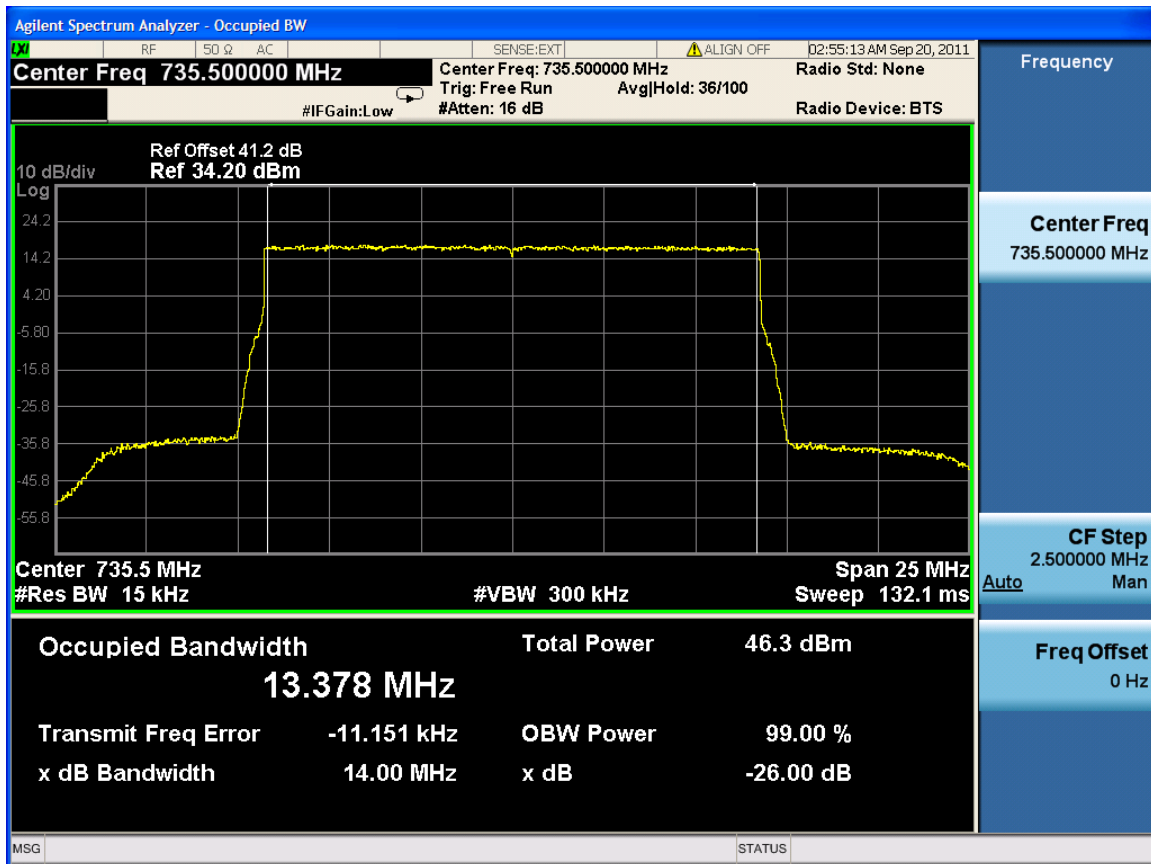
15M-Port 1 -737MHz



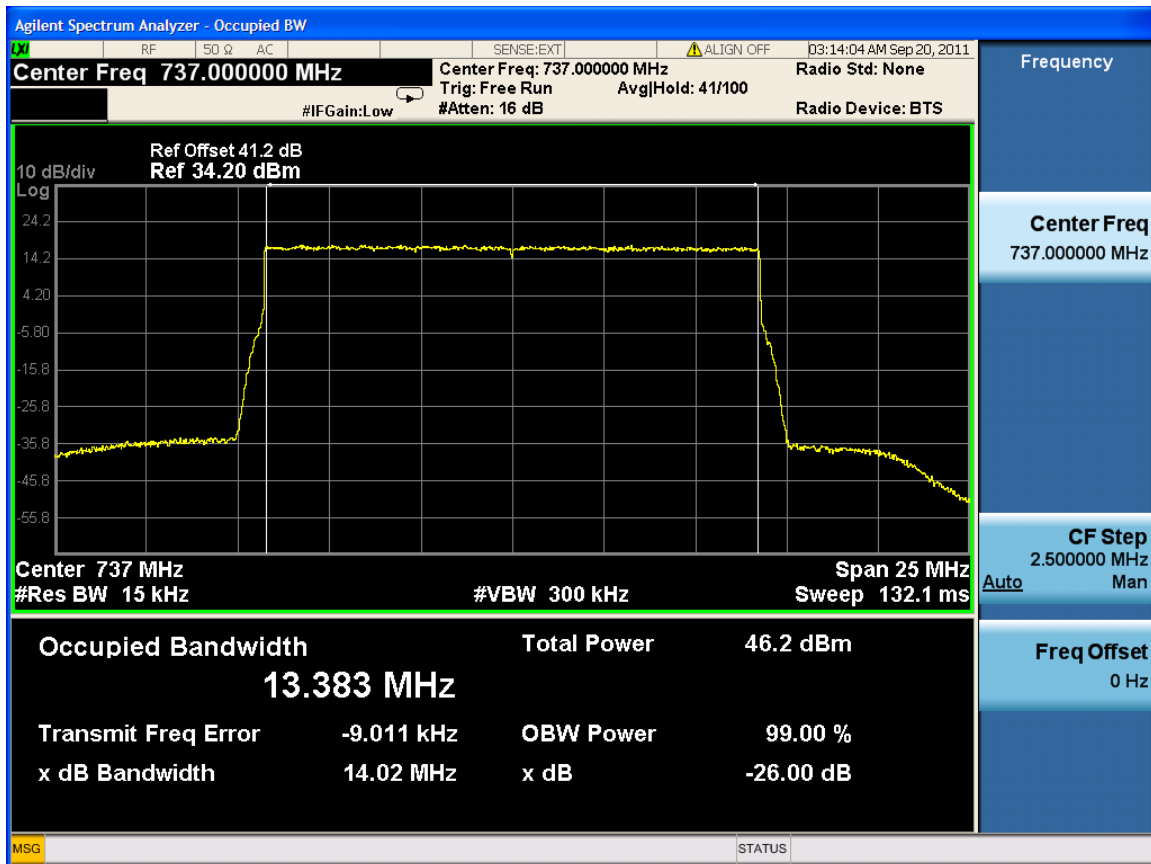
15M-Port 1 -738.5MHz



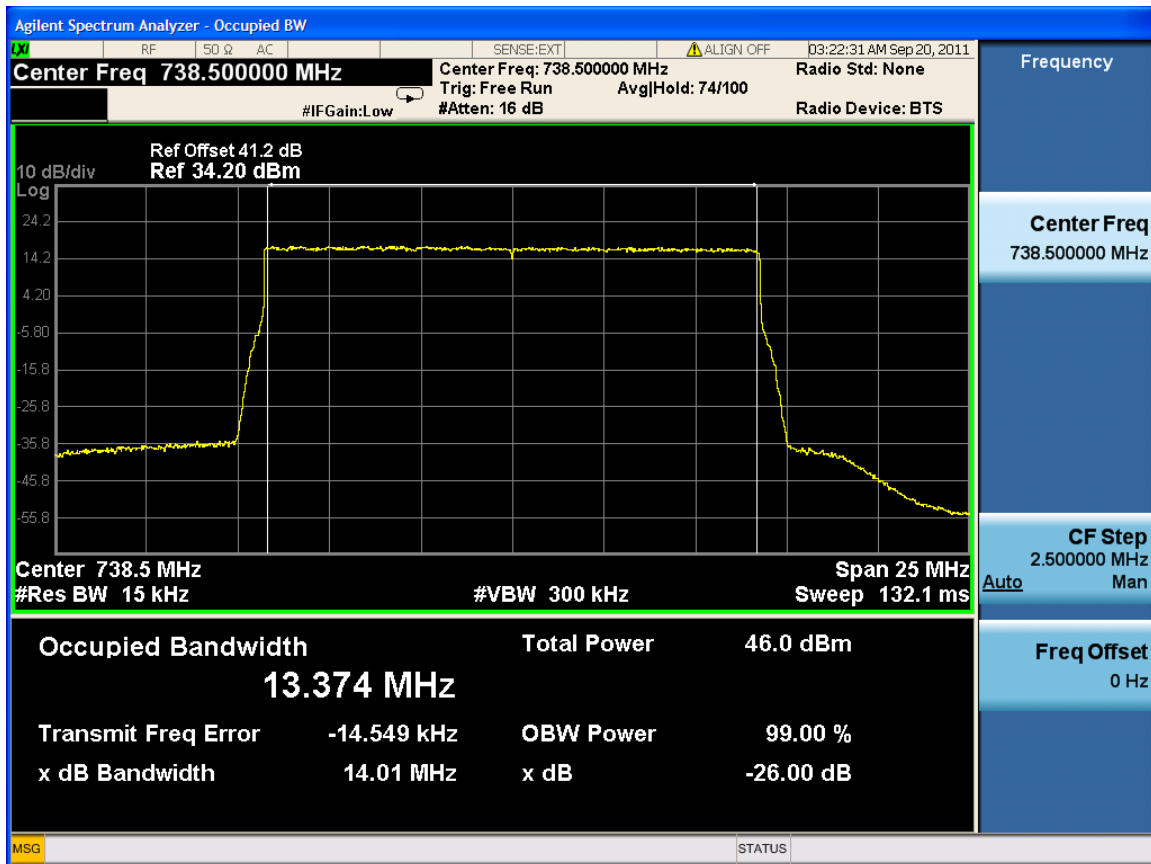
15M-Port 2-735.5MHz



15M-Port 2 -737MHz



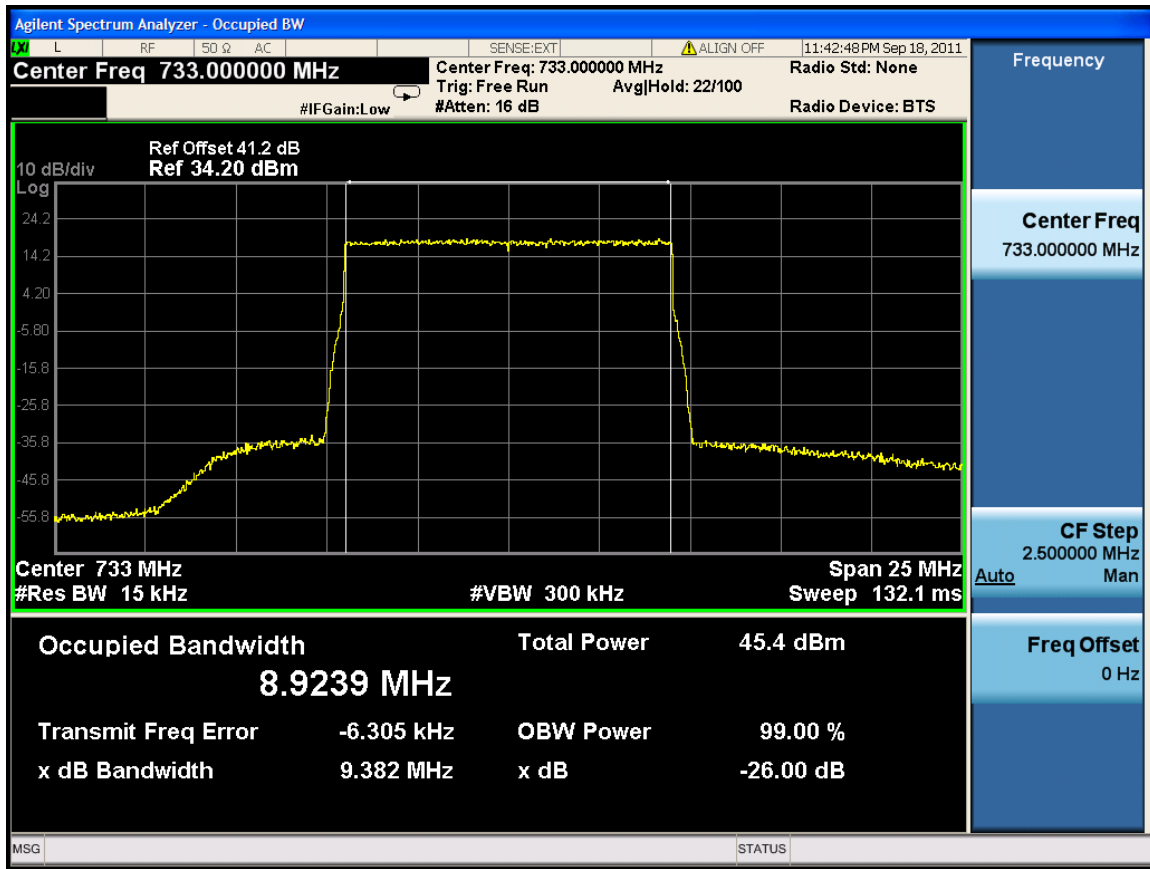
15M-Port 2 -738.5MHz



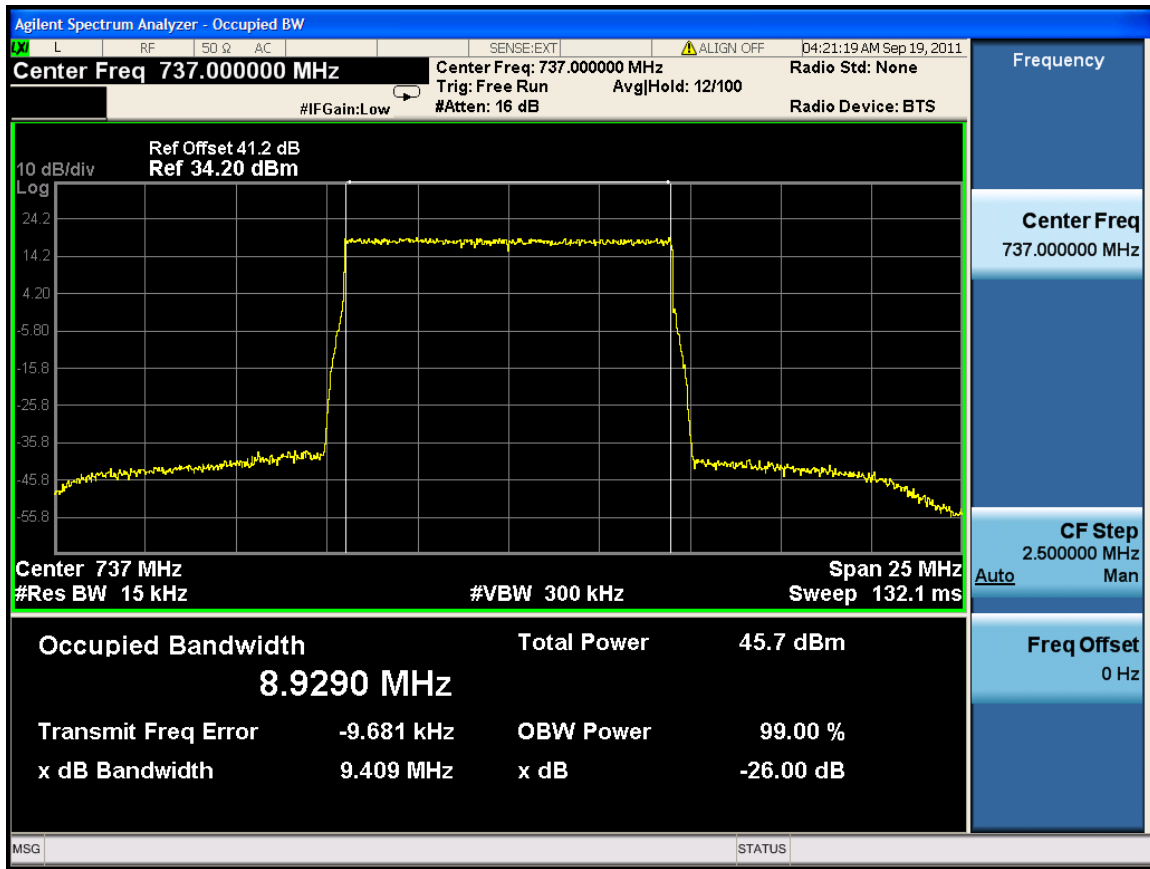
Channel Bandwidth :10M

| Port | Center Freq.<br>(MHz) | 99% Power<br>Bandwidth (MHz) | Limit (MHz) |
|------|-----------------------|------------------------------|-------------|
| 1    | 733                   | 8.9239                       | 10          |
|      | 737                   | 8.9290                       | 10          |
|      | 741                   | 8.9287                       | 10          |
| 2    | 733                   | 8.9267                       | 10          |
|      | 737                   | 8.9254                       | 10          |
|      | 741                   | 8.9260                       | 10          |

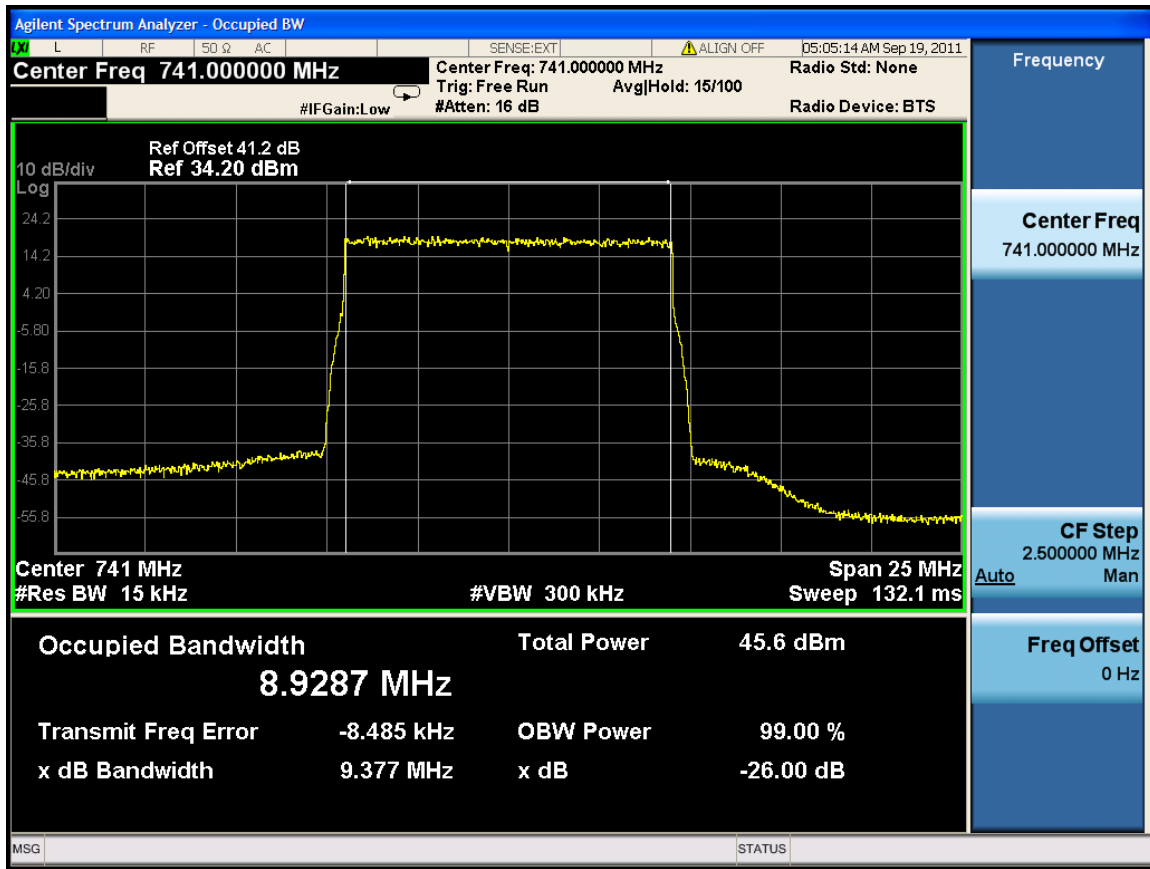
10M-Port 1 -733MHz



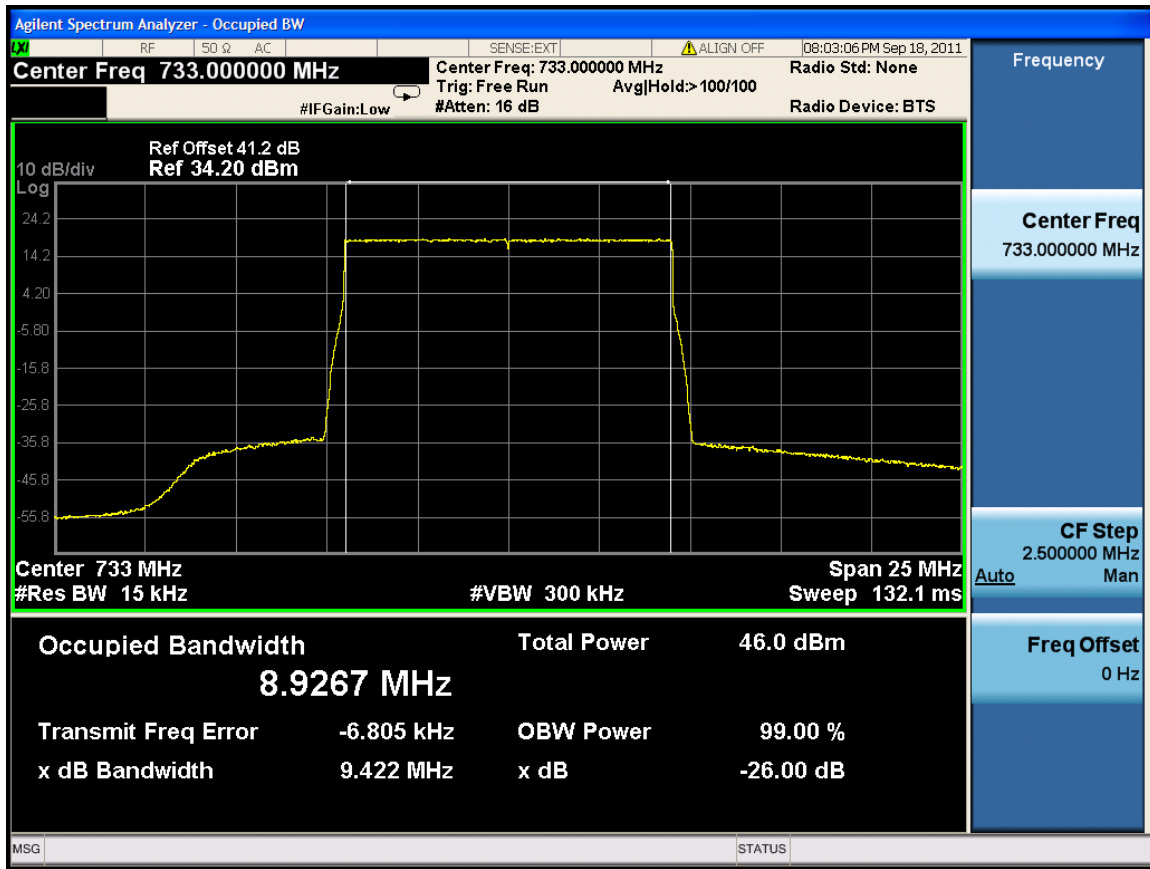
10M-Port 1 -737MHz



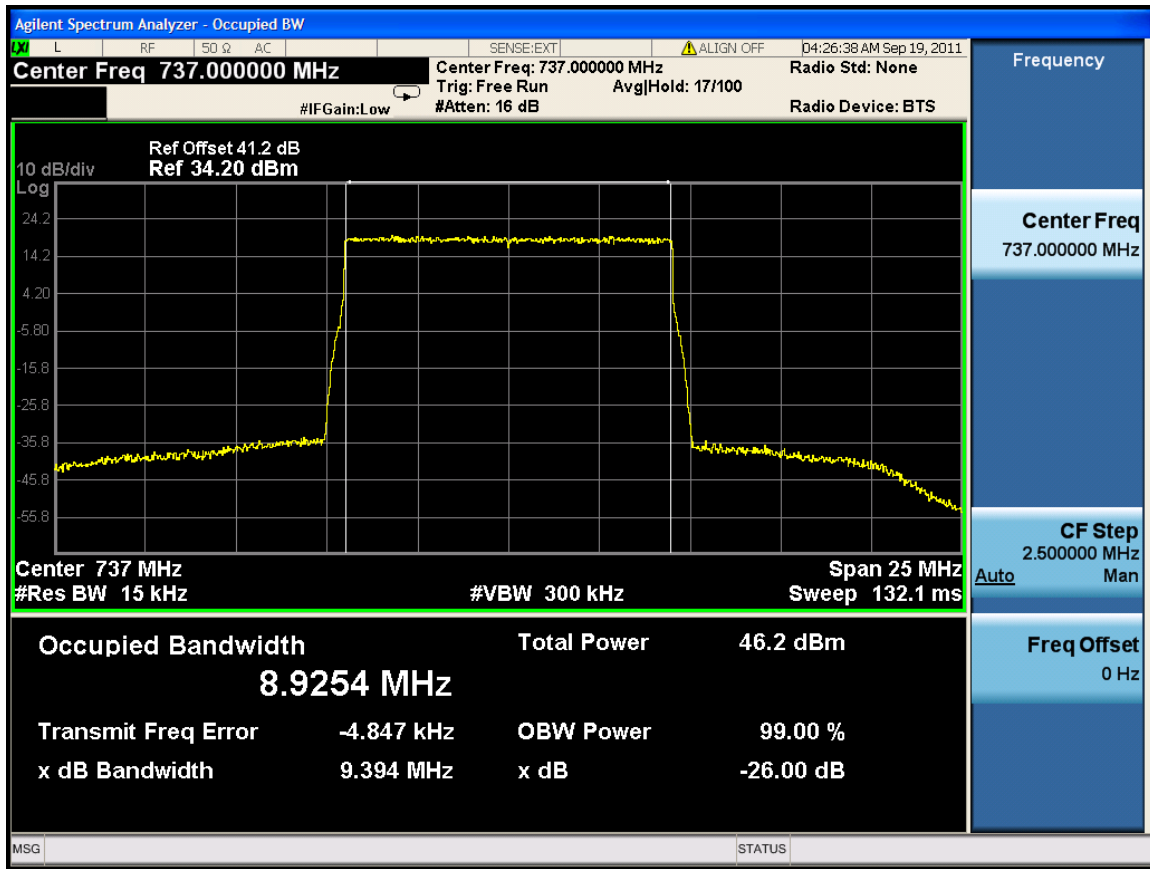
10M-Port 1 -741MHz



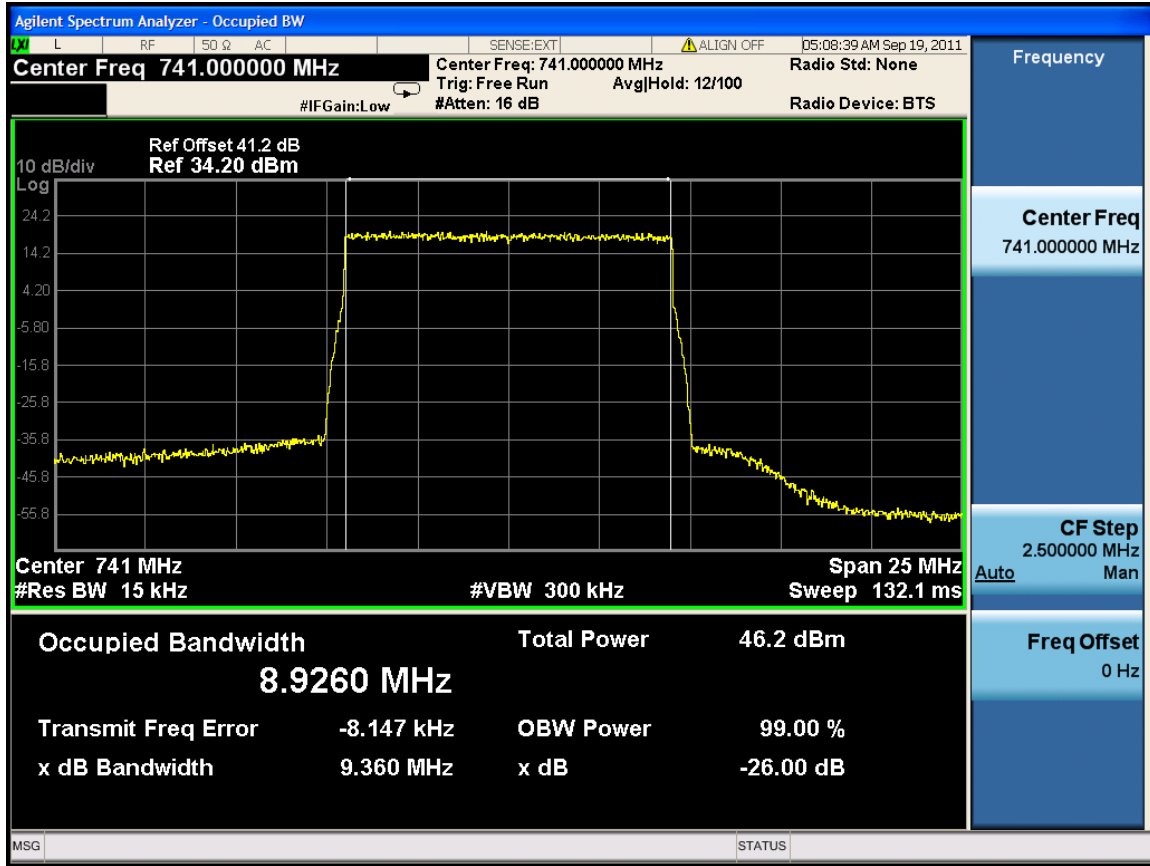
10M-Port 2 -733MHz



10M-Port 2 -737MHz



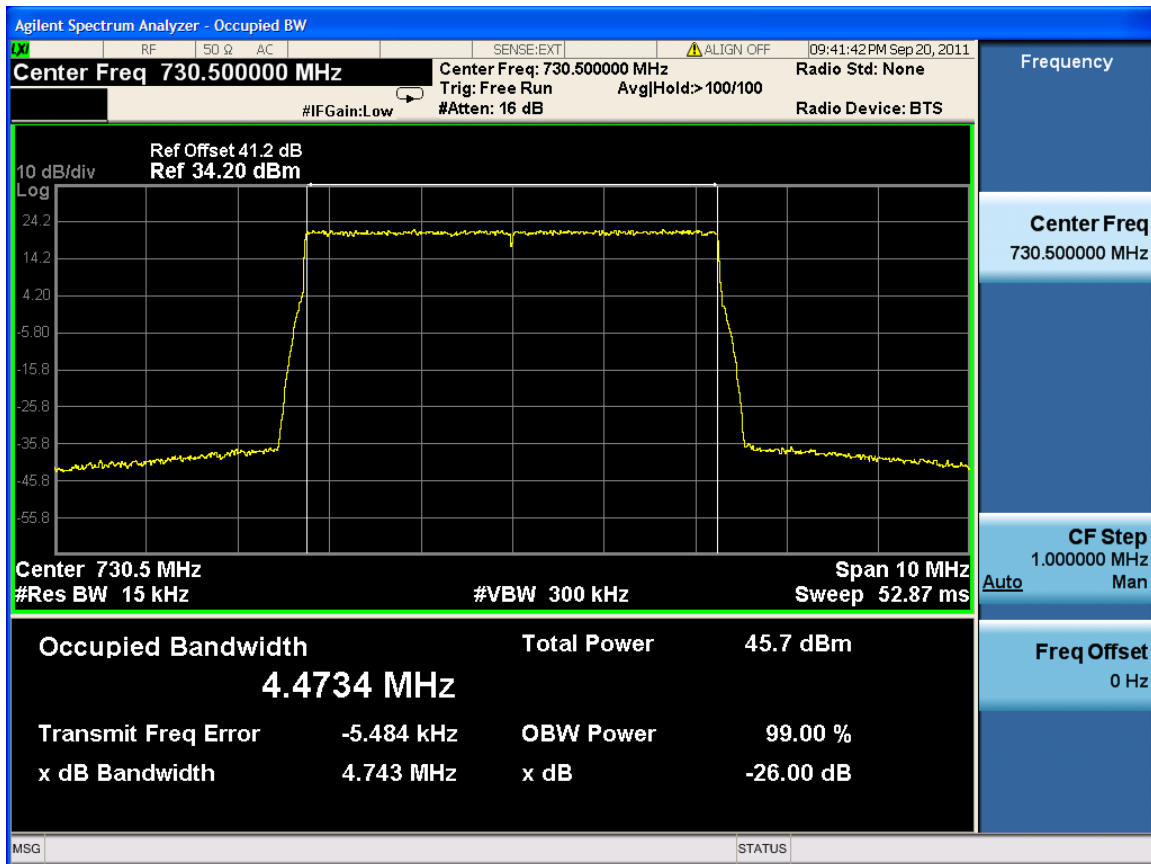
10M-Port 2 -741MHz



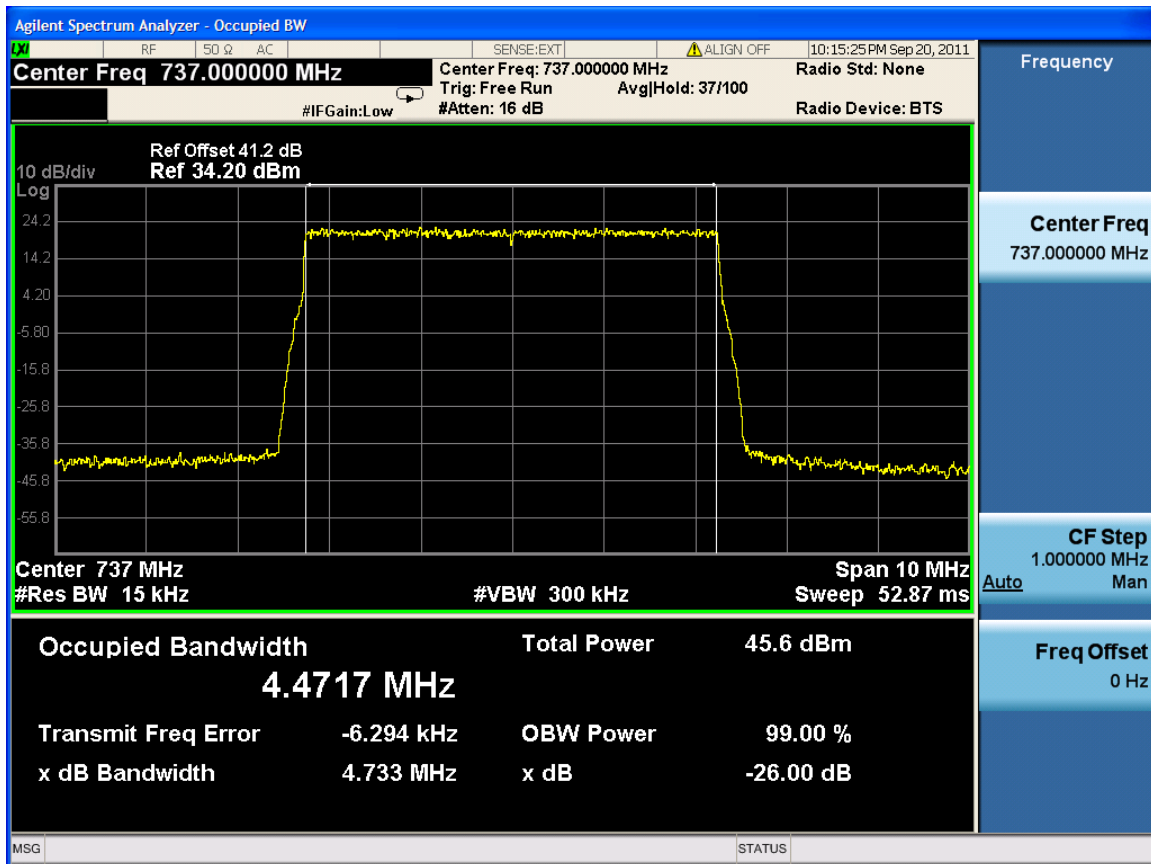
Channel Bandwidth :5M

| Port | Center Freq.<br>(MHz) | 99% Power<br>Bandwidth (MHz) | Limit (MHz) |
|------|-----------------------|------------------------------|-------------|
| 1    | 730.5                 | 4.4734                       | 5           |
|      | 737                   | 4.4717                       | 5           |
|      | 743.5                 | 4.4747                       | 5           |
| 2    | 730.5                 | 4.4736                       | 5           |
|      | 737                   | 4.4723                       | 5           |
|      | 743.5                 | 4.4752                       | 5           |

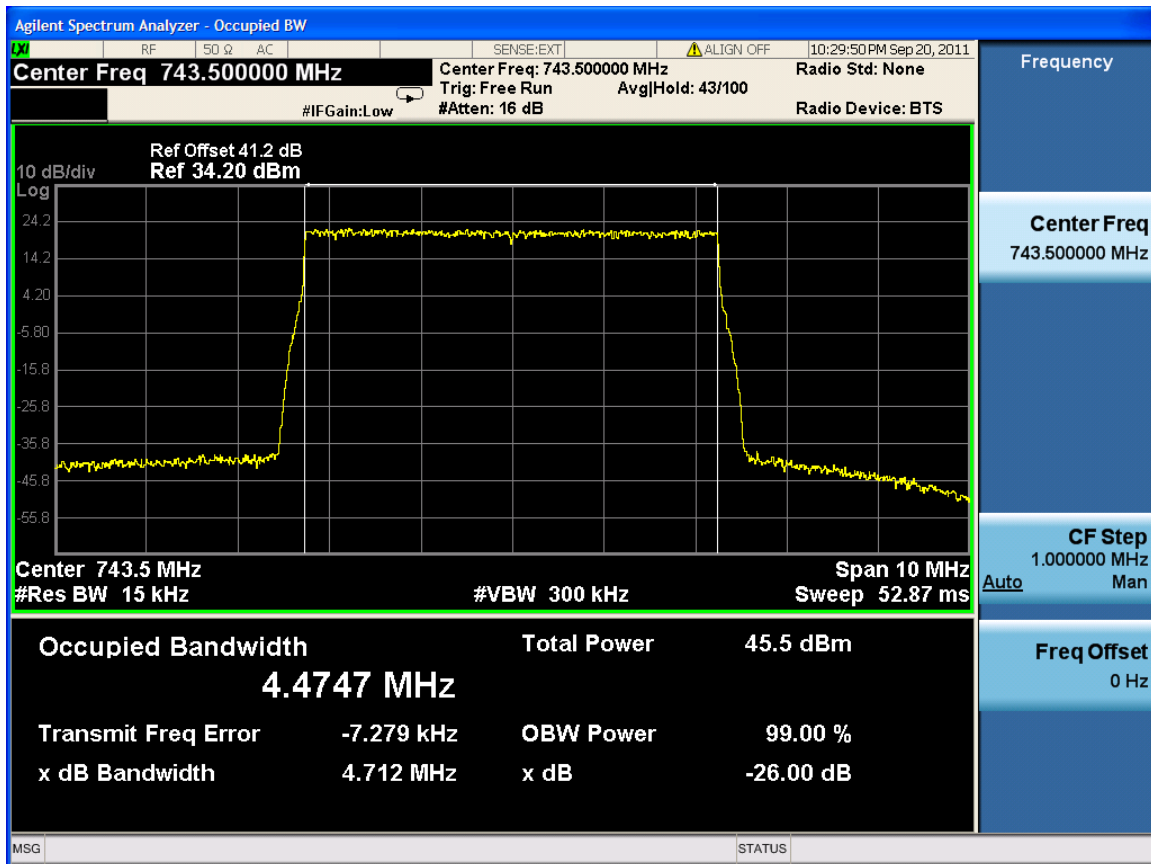
5M-Port 1 -730.5MHz



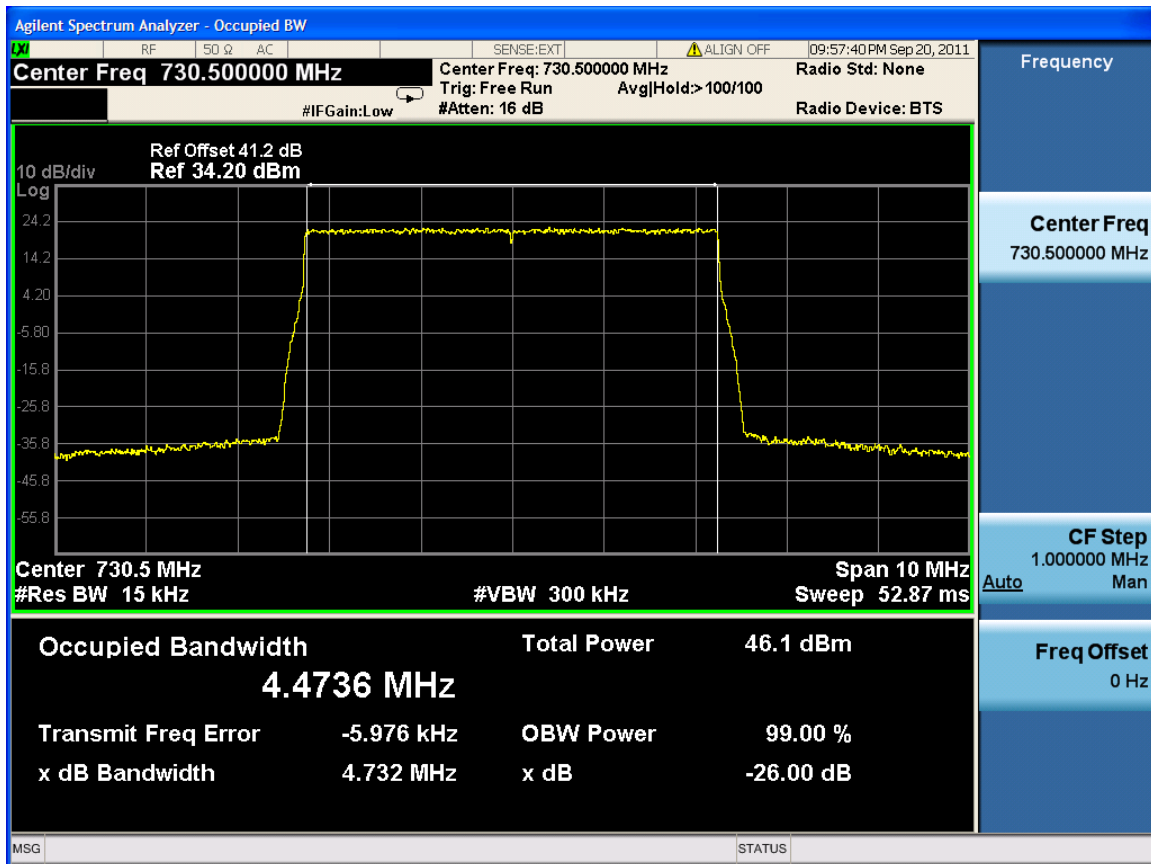
5M-Port 1 -737MHz



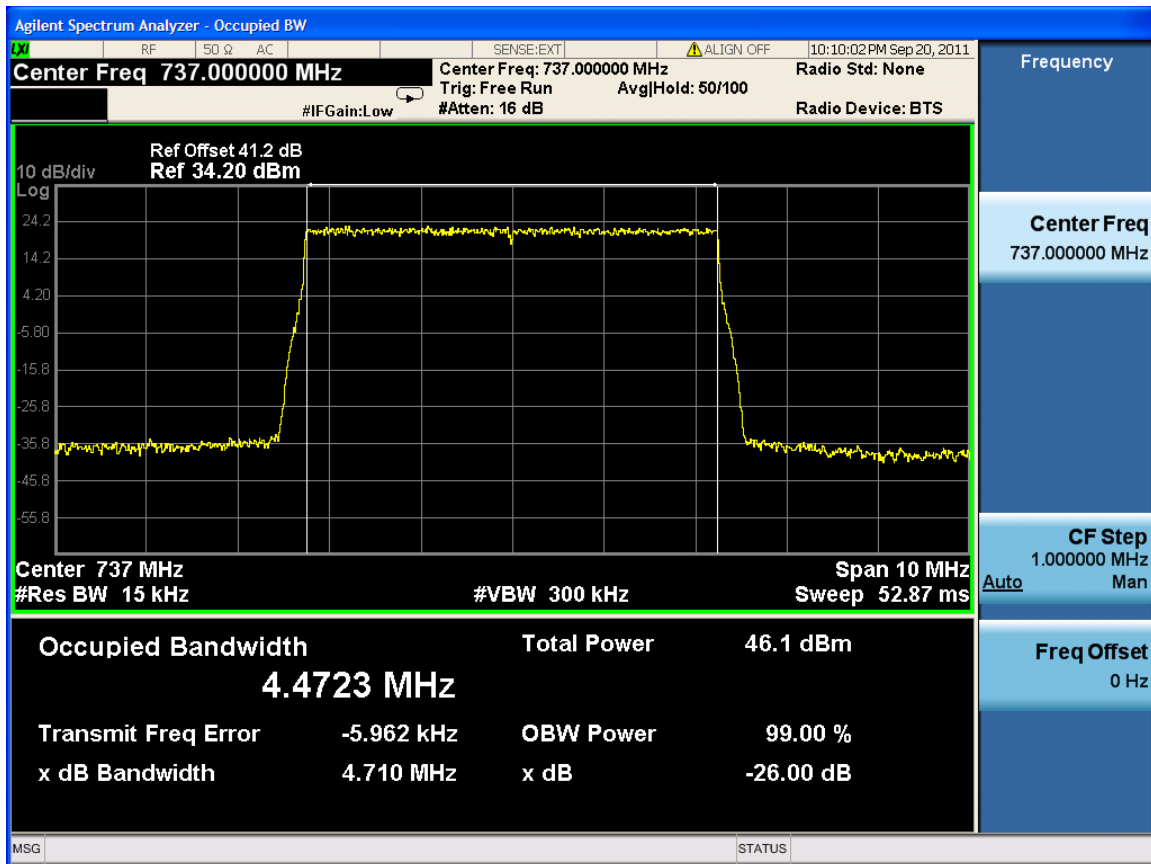
5M-Port 1 -743.5MHz



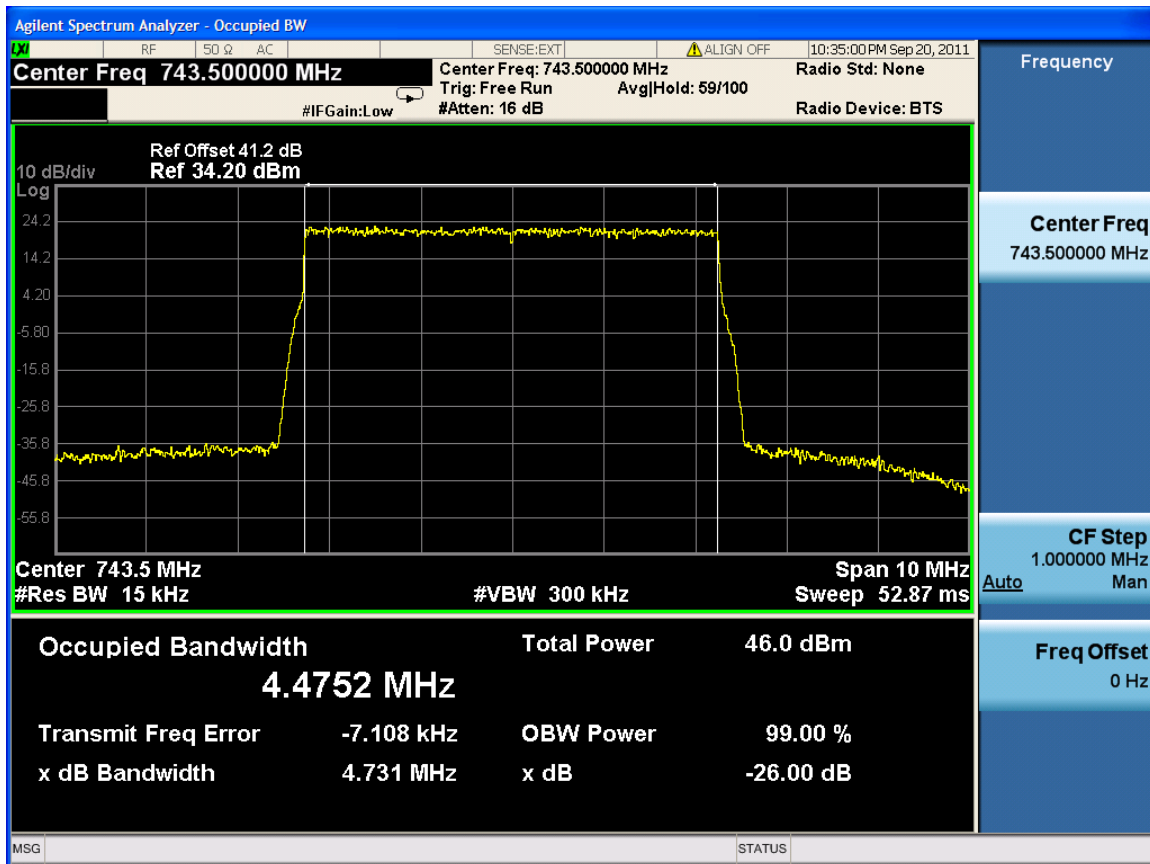
5M-Port 2 -730.5MHz



5M-Port 2 -737MHz



5M-Port 2 -743.5MHz



## 11 BAND EDGES

**Applicable Standard:** FCC §2.1051 ,§27.53

According to §2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (p) by a factor of at least  $43 + 10 \log(p)$  dB. The limit (dBm) should be  $P - (43 + 10 \log(P)) = -13 \text{ dBm}$ .

## Test Equipment List and Details

| Manufacturer | Description                  | Model         | Serial Number | Calibration Date | Calibration Due Date |
|--------------|------------------------------|---------------|---------------|------------------|----------------------|
| Agilent      | MXA Series Spectrum Analyzer | N9030A        | MY49431143    | 2015.09.26       | 2016.09.14           |
| DTS          | DTS 40dB Attenuator          | DTS100-40-3-1 | 09112005      | 2015.07.19       | 2016.07.19           |

**\*statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements , traceable to NIST.

## Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency.

## Test Data Environmental Conditions

|                    |          |
|--------------------|----------|
| Temperature:       | 20 °C    |
| Relative Humidity: | 53%      |
| ATM Pressure:      | 1009mbar |

**Test Result:** Pass

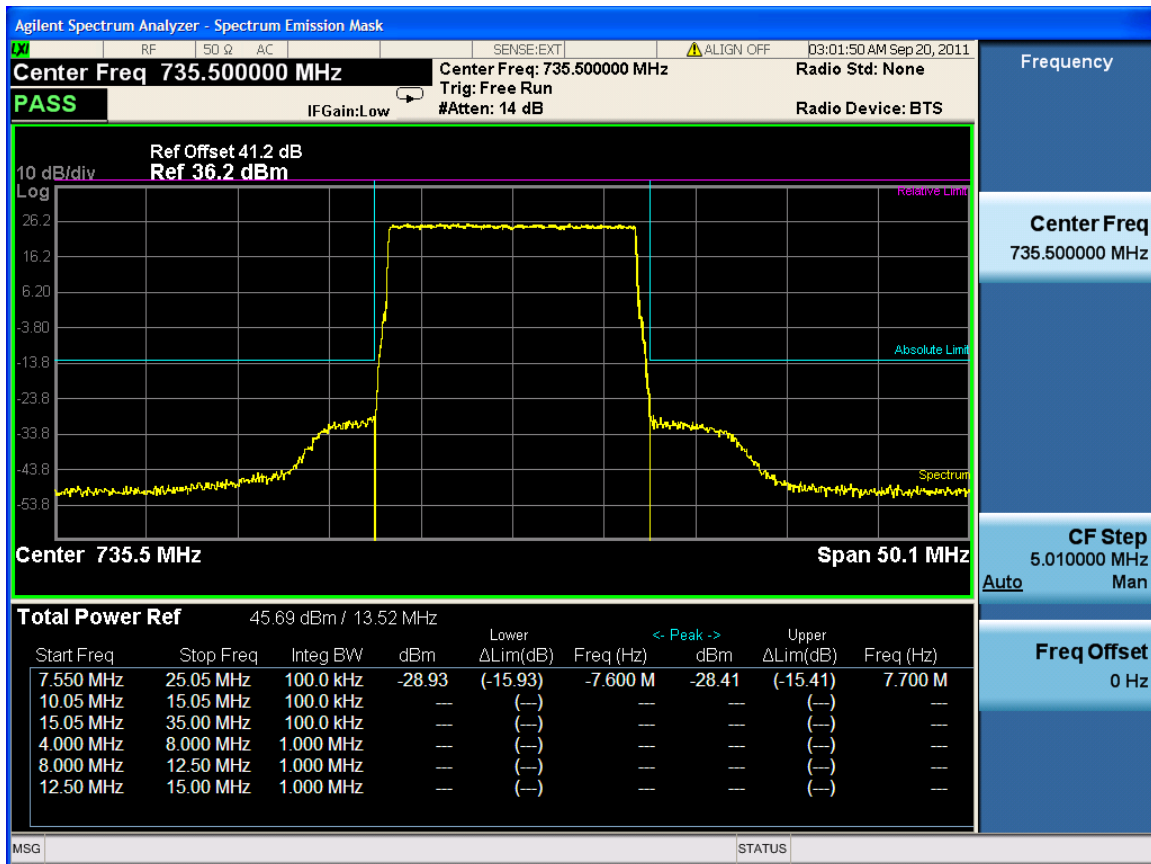
**Test Mode:** Transmitting LTE

## Test Data

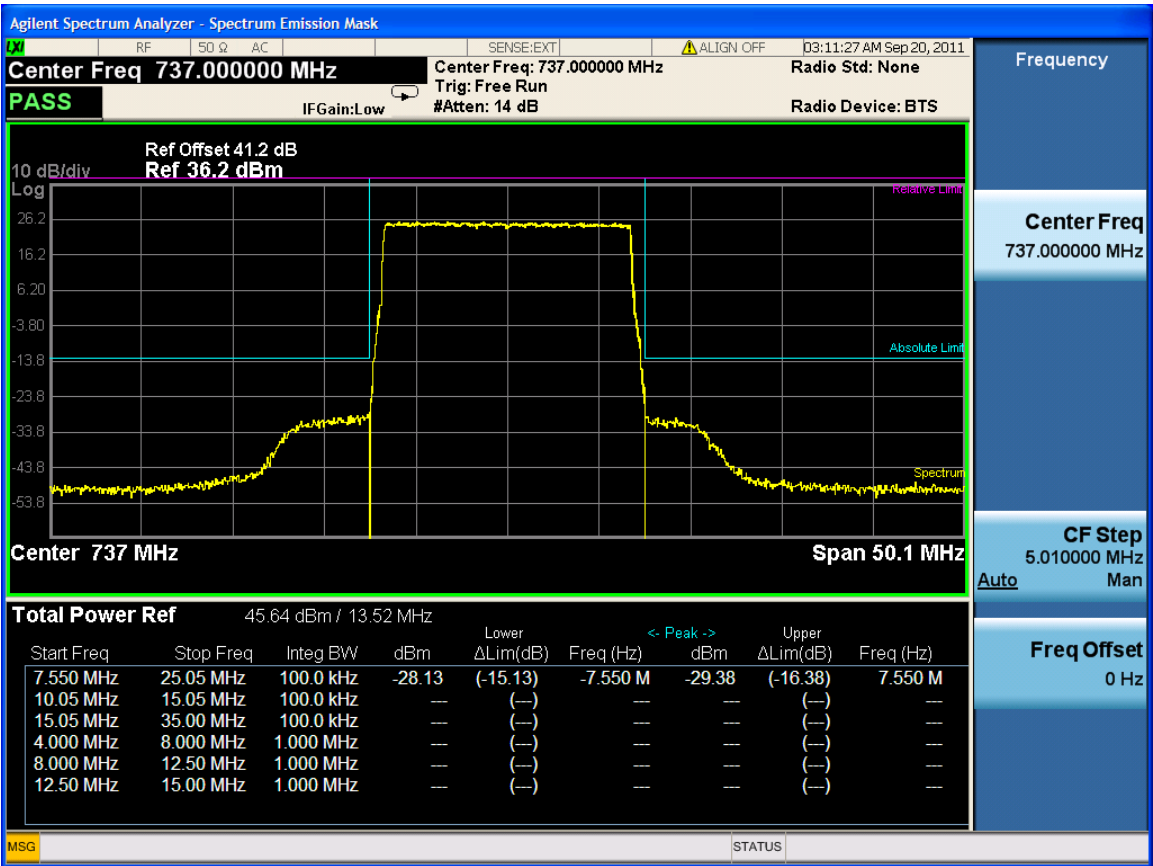
Channel Bandwidth :15M

| Port | Center Freq.<br>(MHz) | Max bandedge<br>Emission (dBm) | Limit (dBm) |
|------|-----------------------|--------------------------------|-------------|
| 1    | 735.5                 | -28.41                         | -13         |
|      | 737                   | -28.13                         | -13         |
|      | 738.5                 | -27.29                         | -13         |
| 2    | 735.5                 | -24.58                         | -13         |
|      | 737                   | -25.07                         | -13         |
|      | 738.5                 | -24.16                         | -13         |

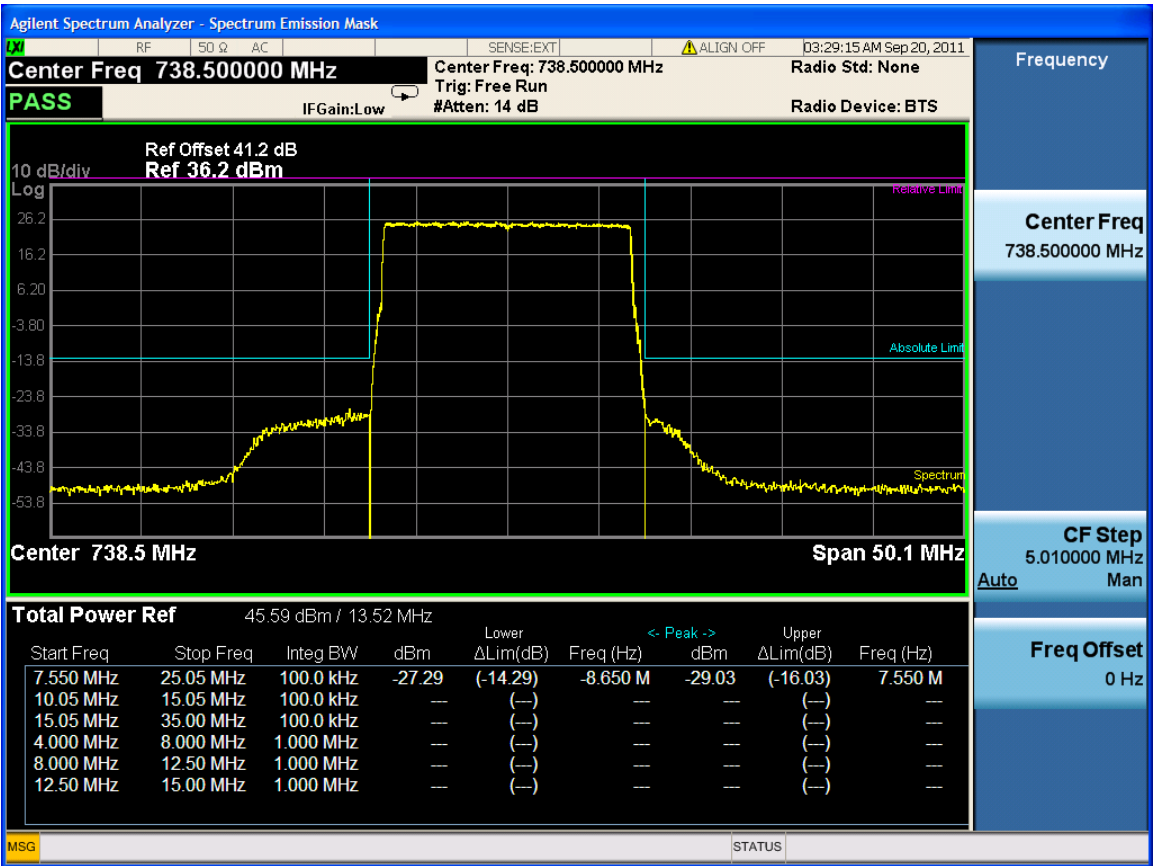
15M-Port 1 -735.5MHz



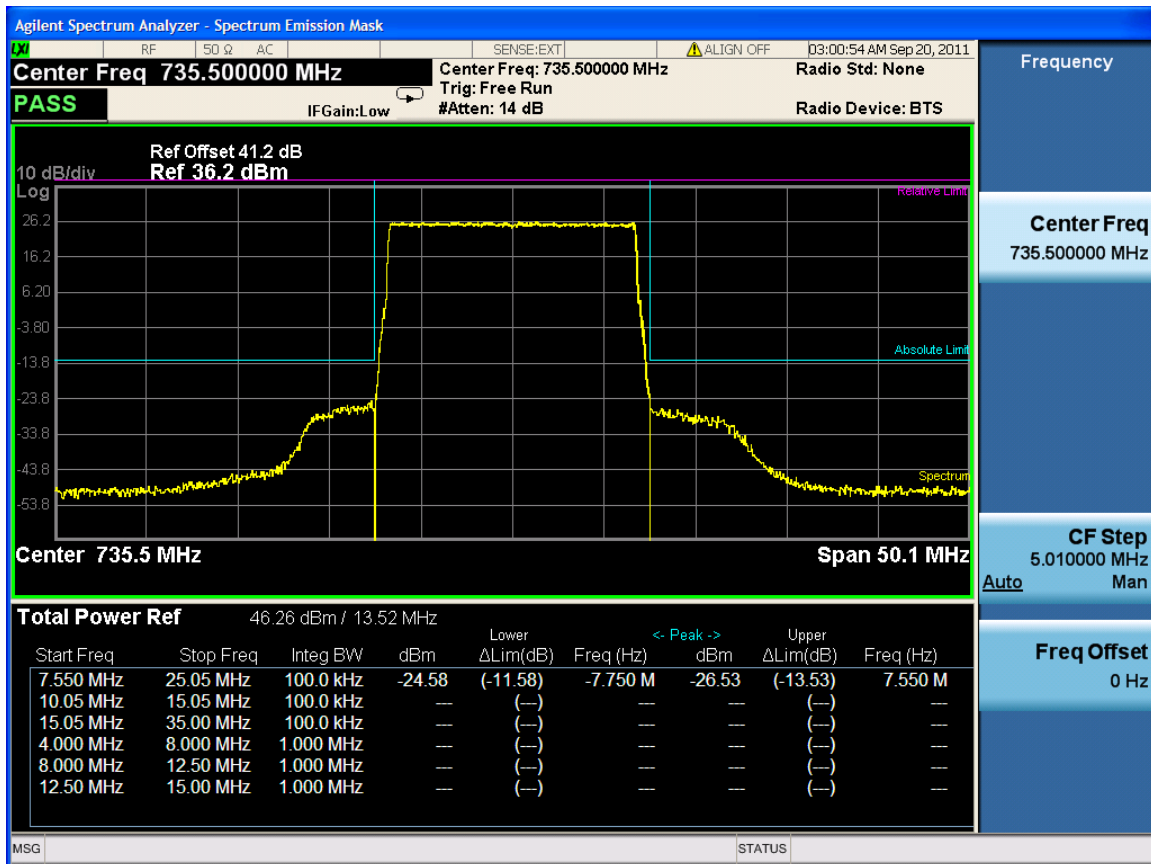
15M-Port 1 -737MHz



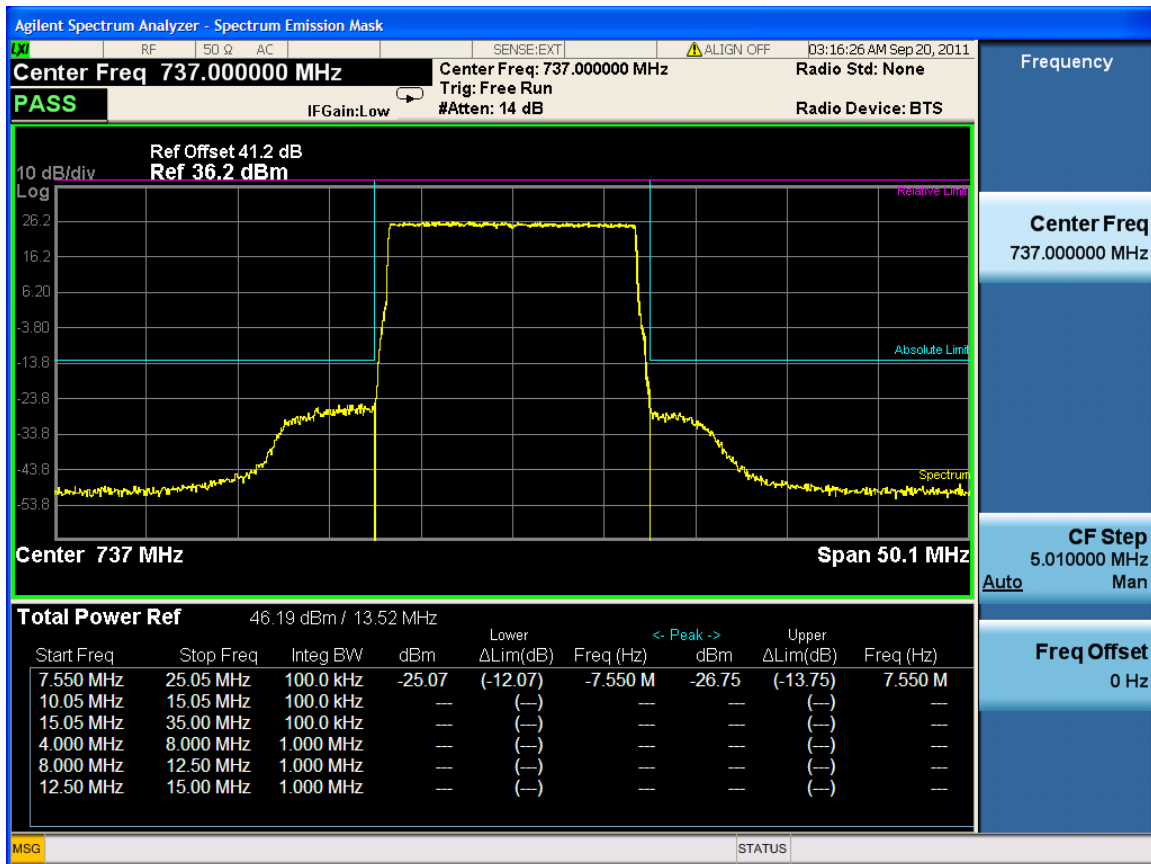
15M-Port 1 -738.5MHz



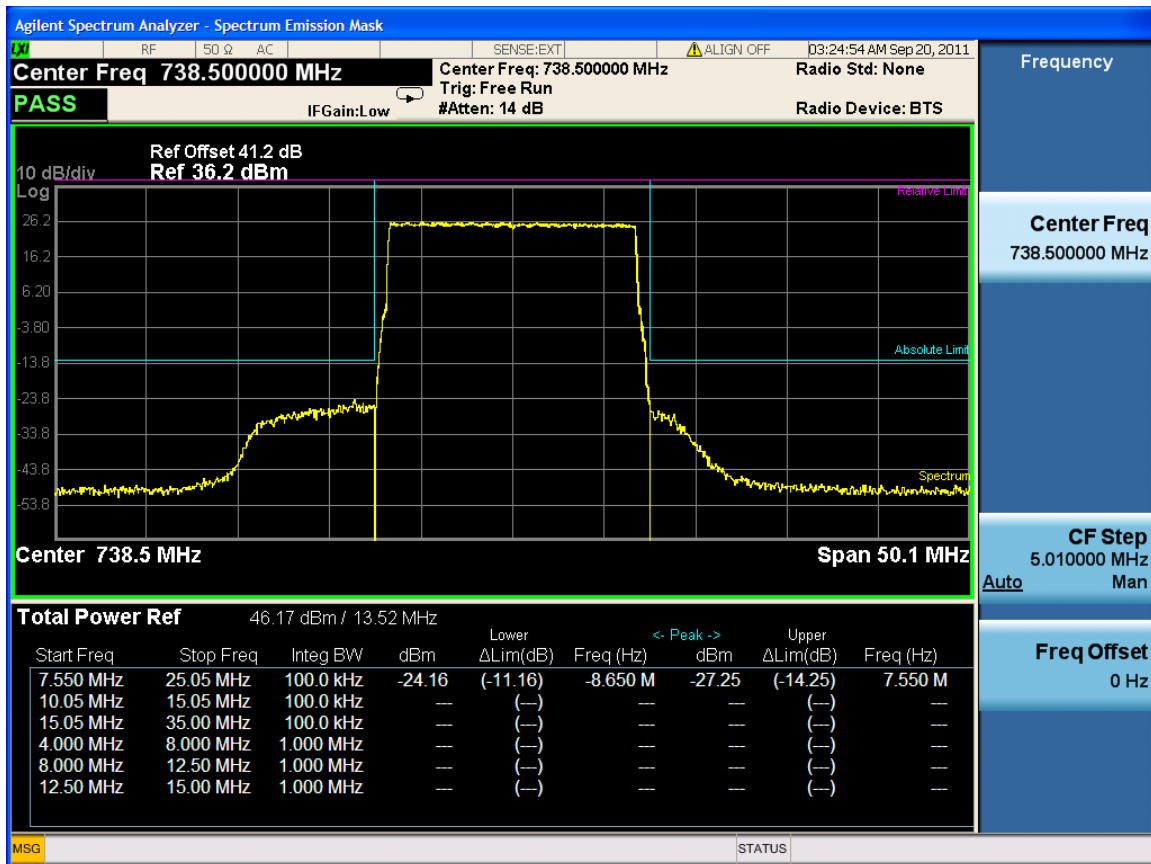
15M-Port 2-735.5MHz



15M-Port 2 -737MHz



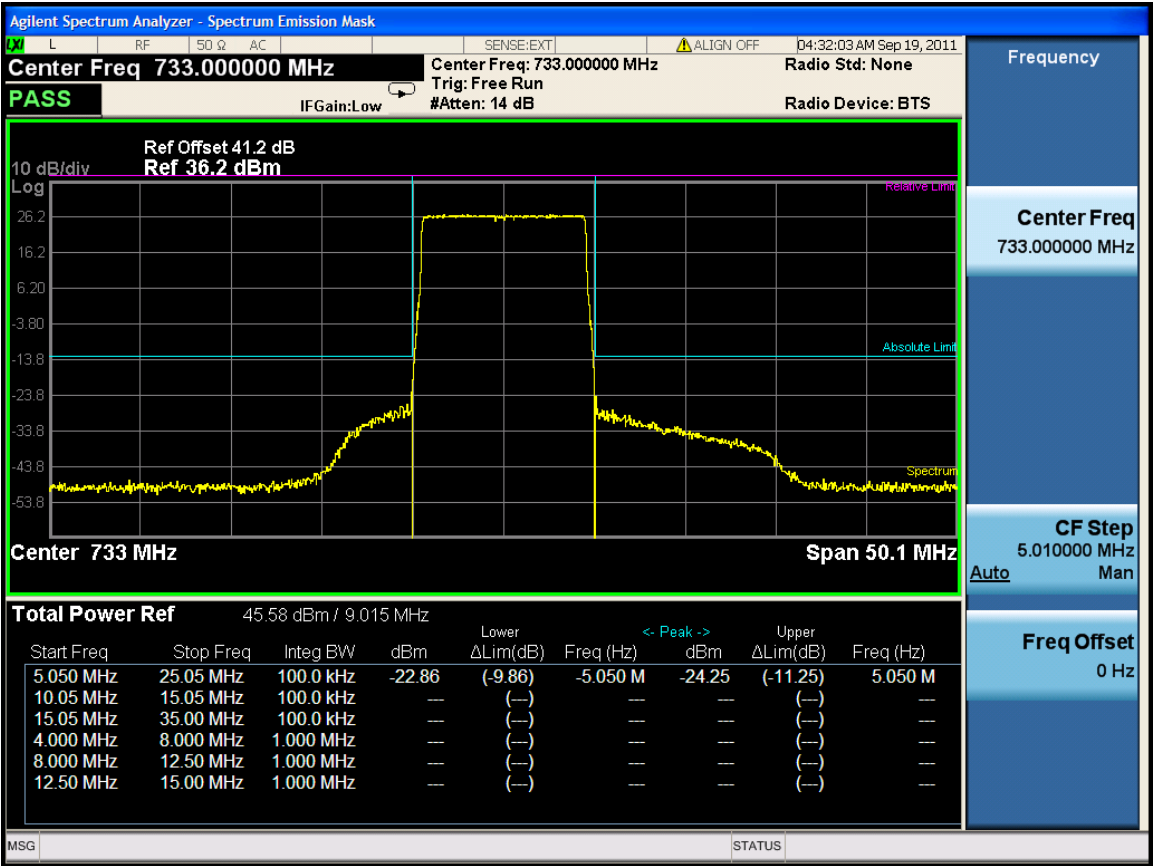
15M-Port 2 -738.5MHz



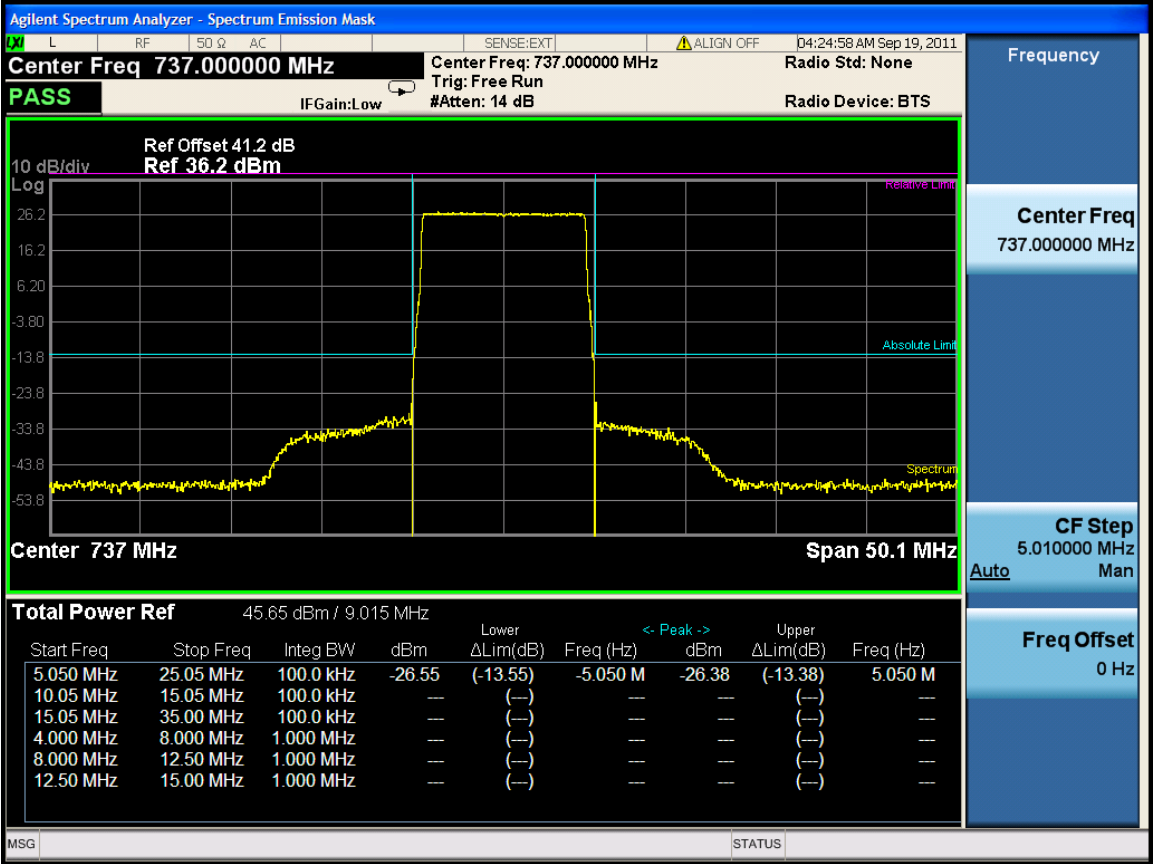
Channel Bandwidth :10M

| Port | Center Freq.<br>(MHz) | Max bandedge<br>Emission (dBm) | Limit (dBm) |
|------|-----------------------|--------------------------------|-------------|
| 1    | 733                   | -22.86                         | -13         |
|      | 737                   | -26.38                         | -13         |
|      | 741                   | -25.22                         | -13         |
| 2    | 733                   | -21.04                         | -13         |
|      | 737                   | -22.30                         | -13         |
|      | 741                   | -25.83                         | -13         |

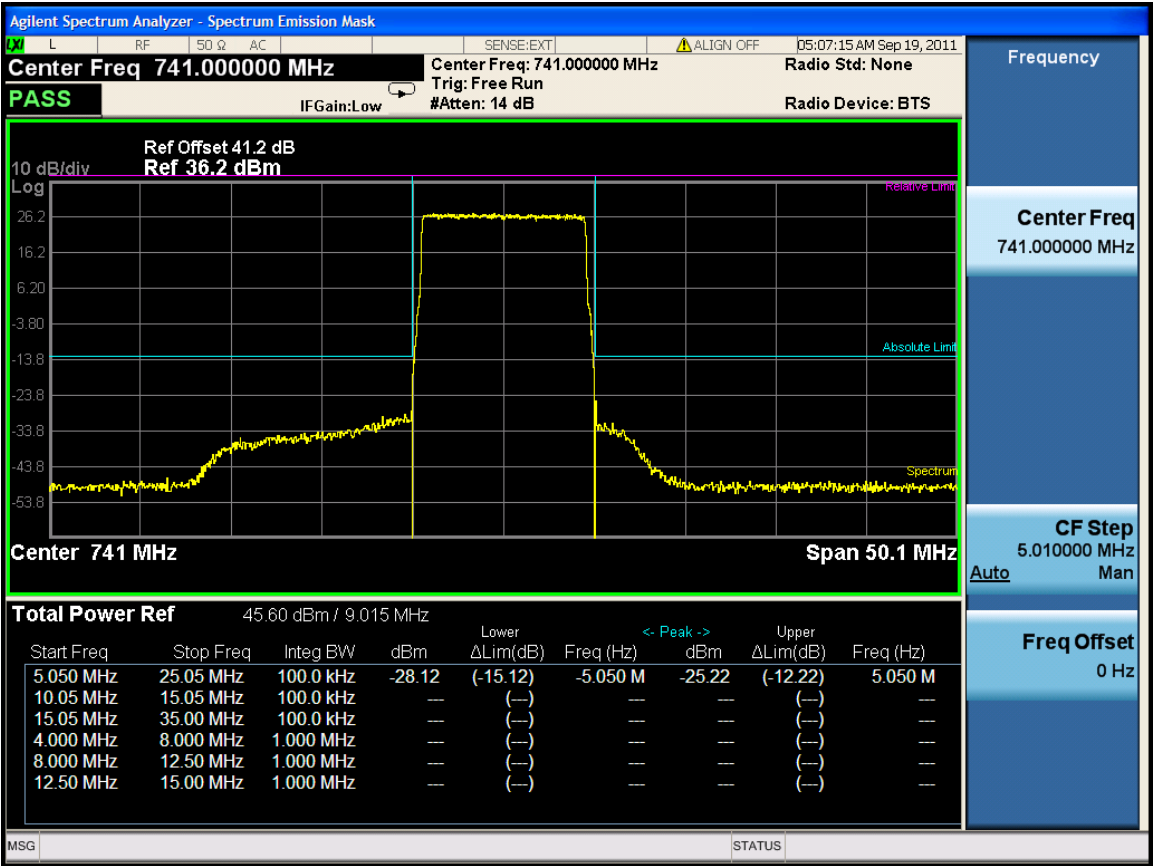
10M-Port 1 -733MHz



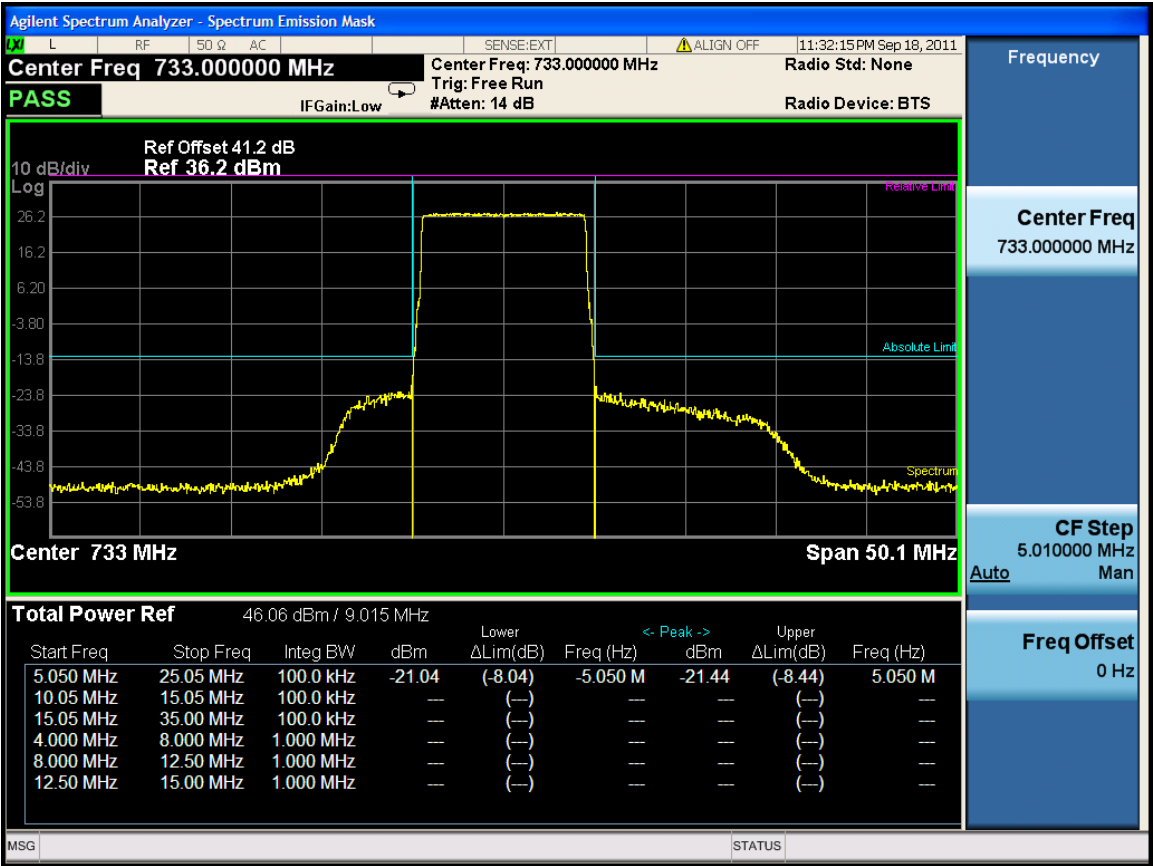
10M-Port 1 -737MHz



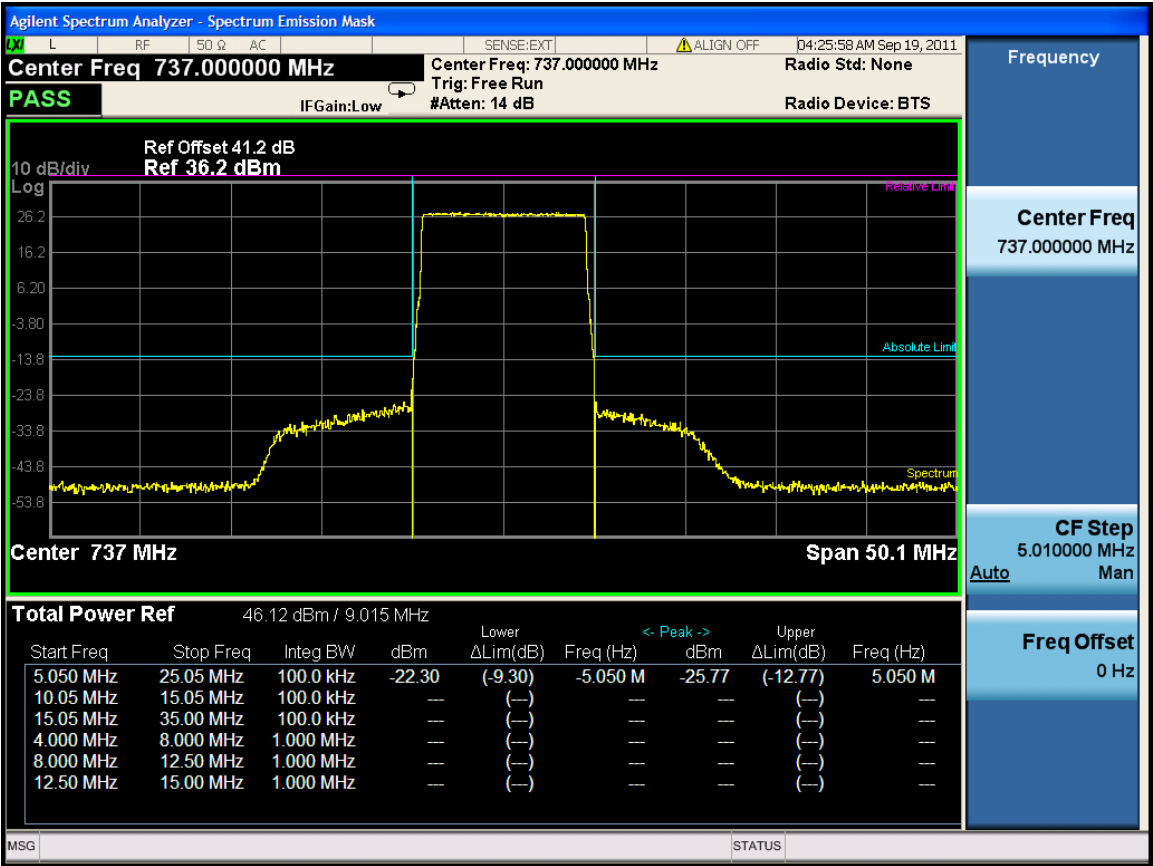
10M-Port 1 -741MHz



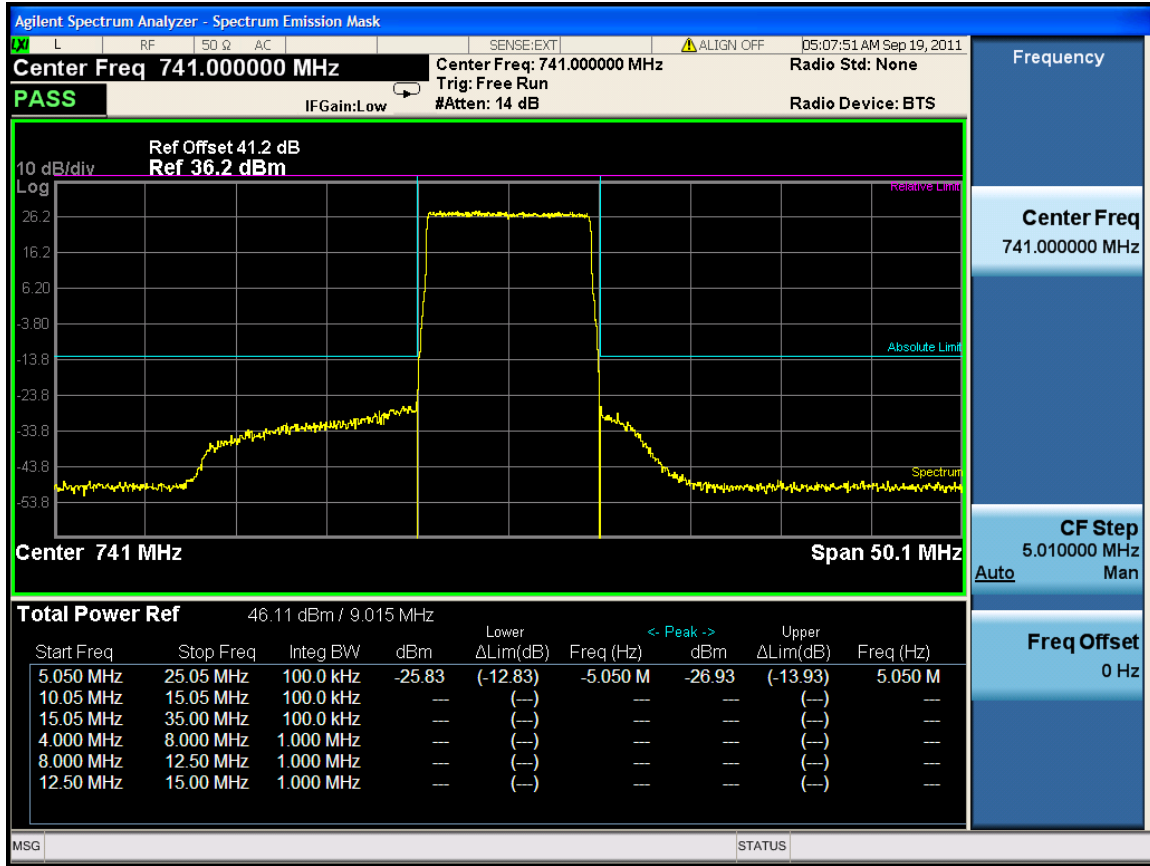
10M-Port 2 -733MHz



10M-Port 2 -737MHz



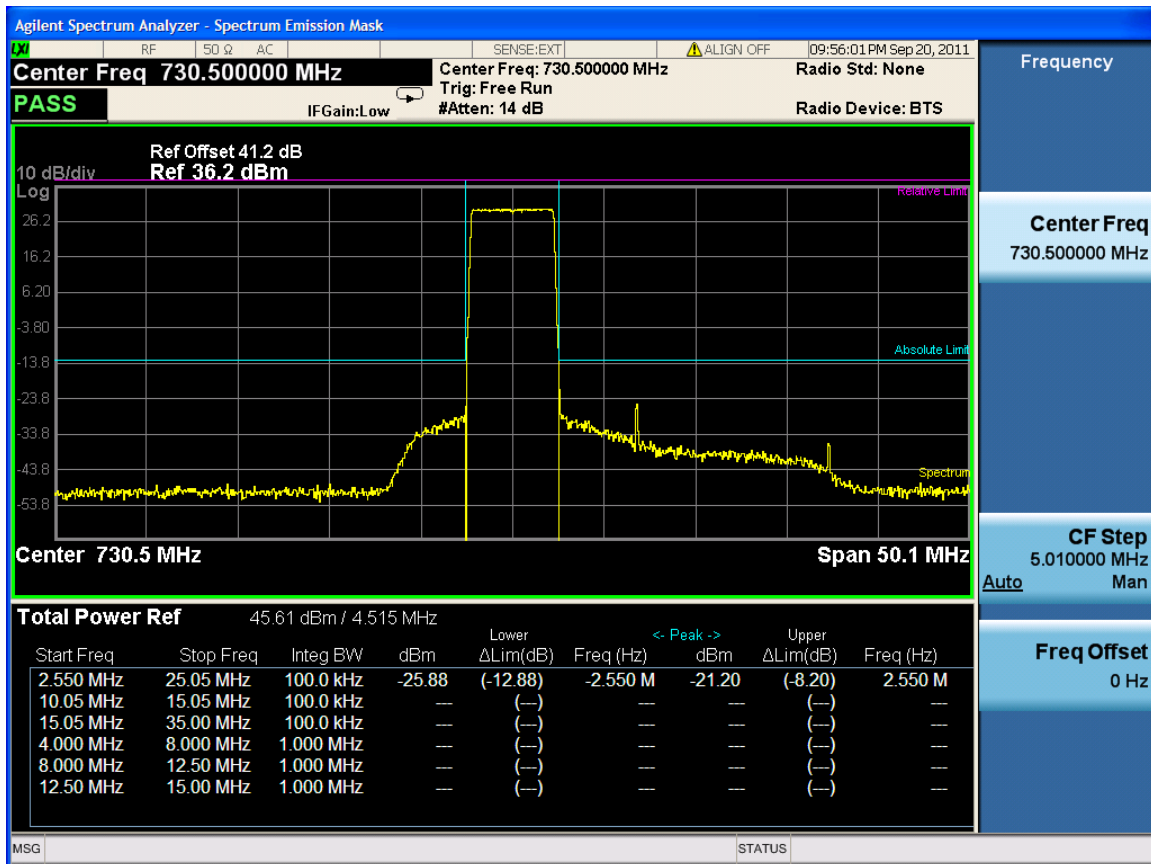
10M-Port 2 -741MHz



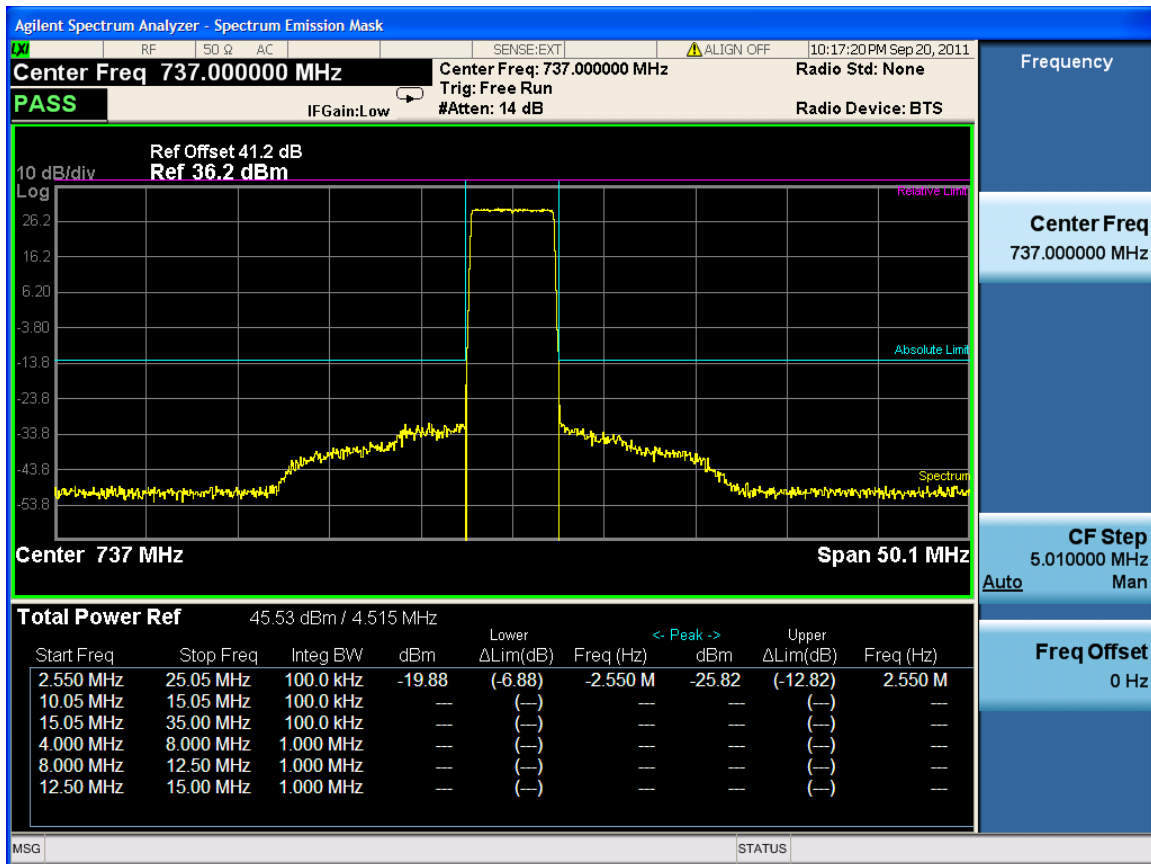
Channel Bandwidth :5M

| Port | Center Freq. (MHz) | Max bandedge Emission (dBm) | Limit (dBm) |
|------|--------------------|-----------------------------|-------------|
| 1    | 730.5              | -21.20                      | -13         |
|      | 737                | -19.88                      | -13         |
|      | 743.5              | -20.79                      | -13         |
| 2    | 730.5              | -22.30                      | -13         |
|      | 737                | -19.09                      | -13         |
|      | 743.5              | -23.21                      | -13         |

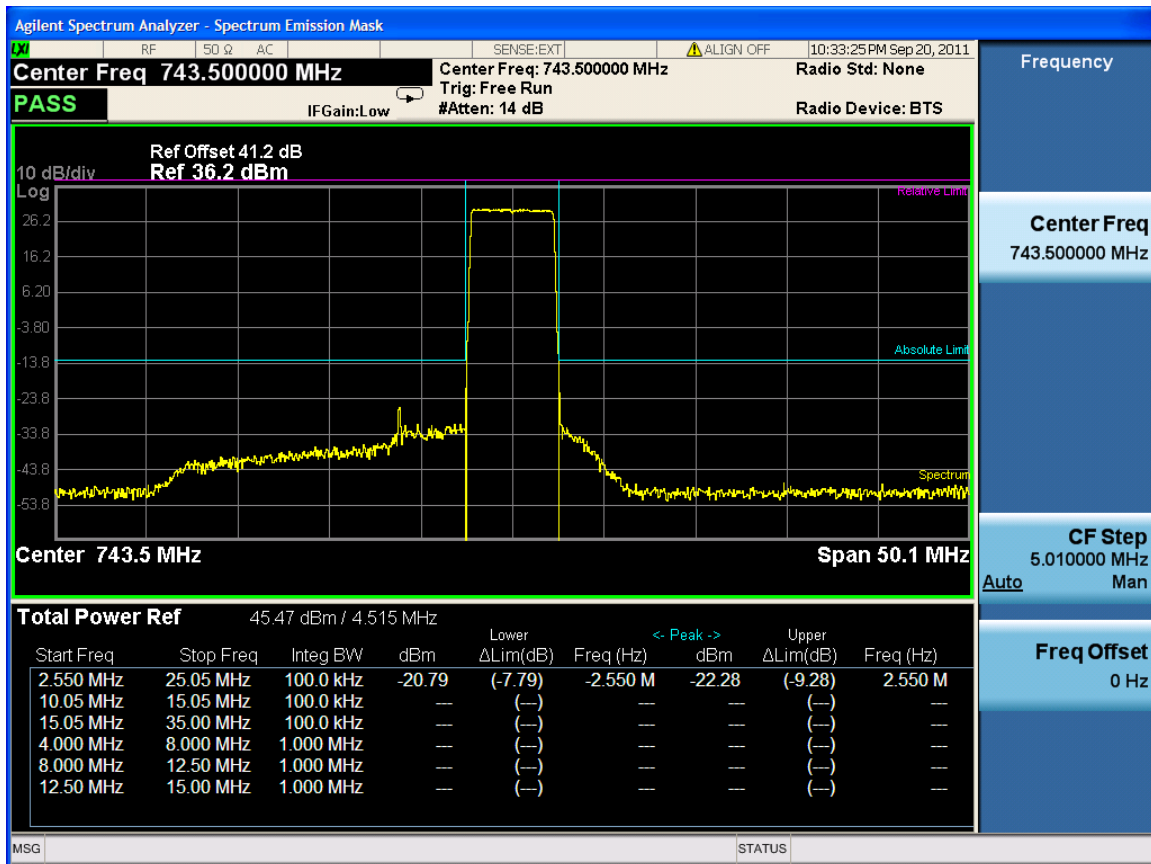
5M-Port 1 -730.5MHz



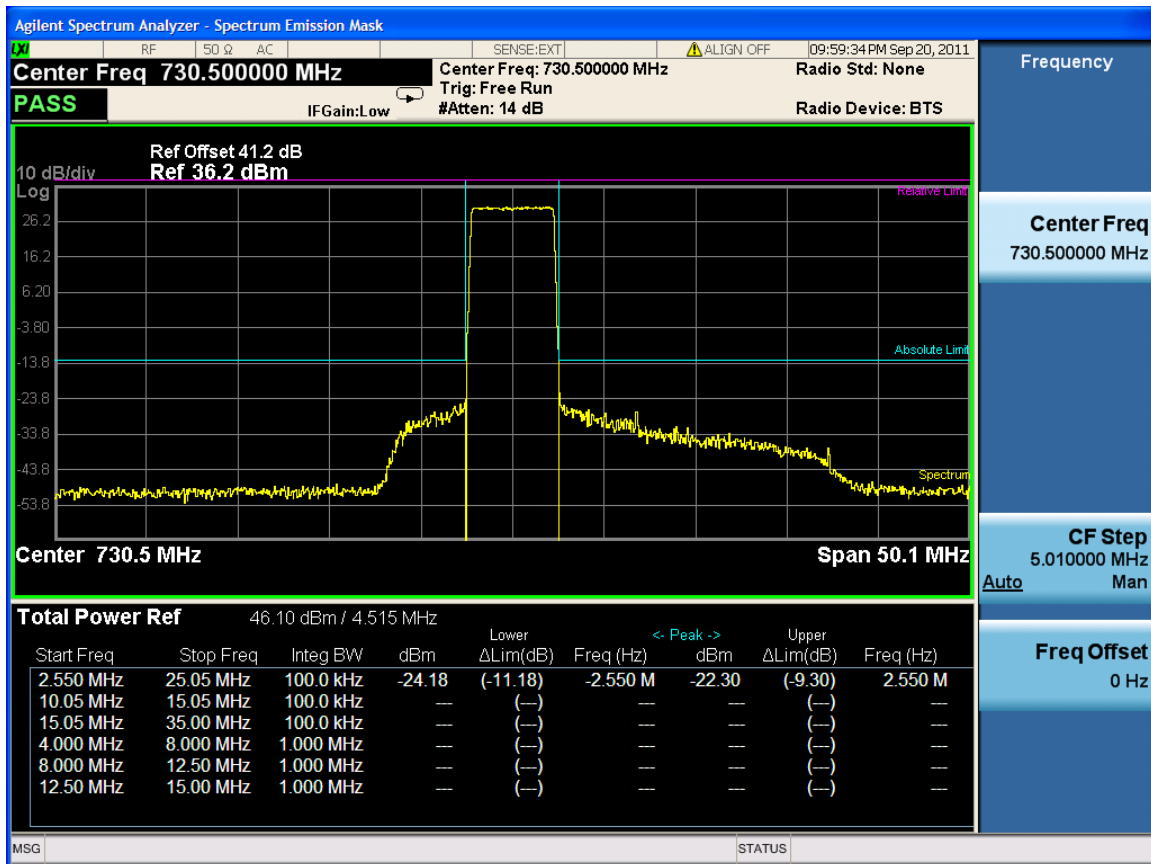
5M-Port 1 -737MHz



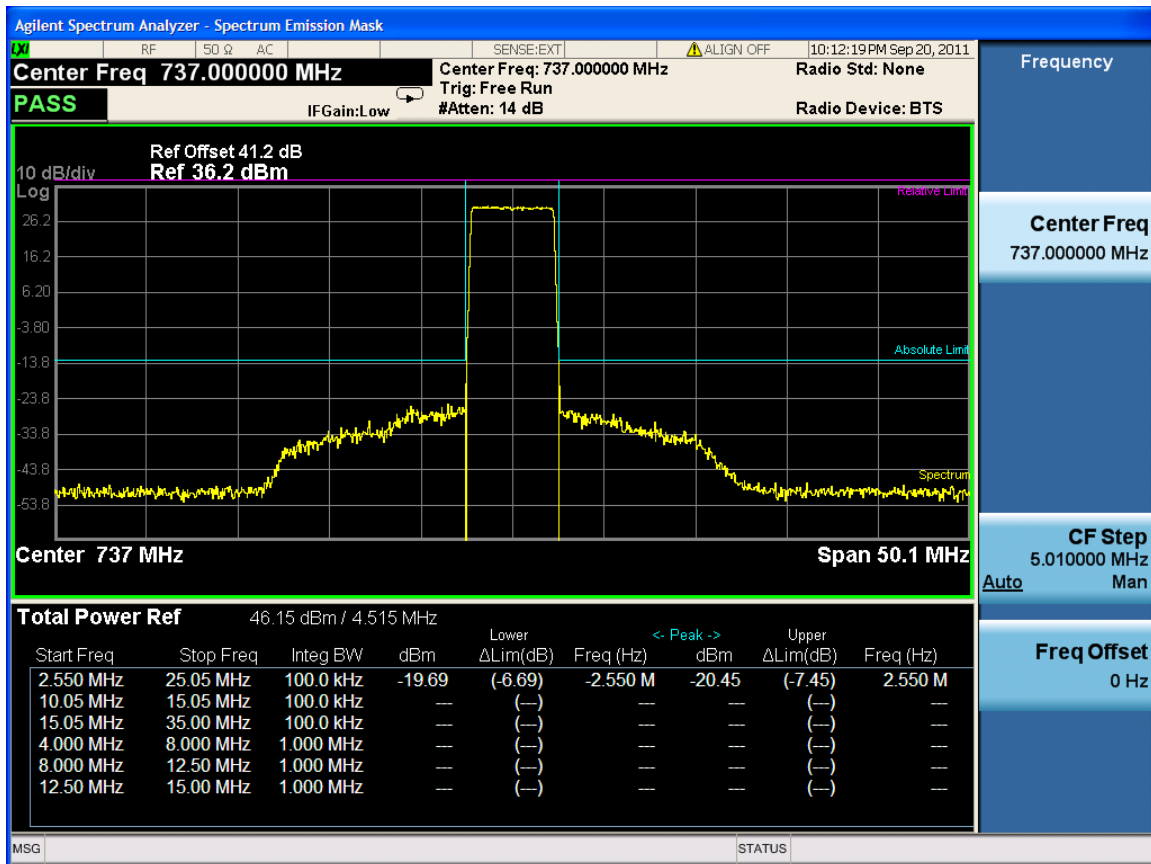
5M-Port 1 -741MHz



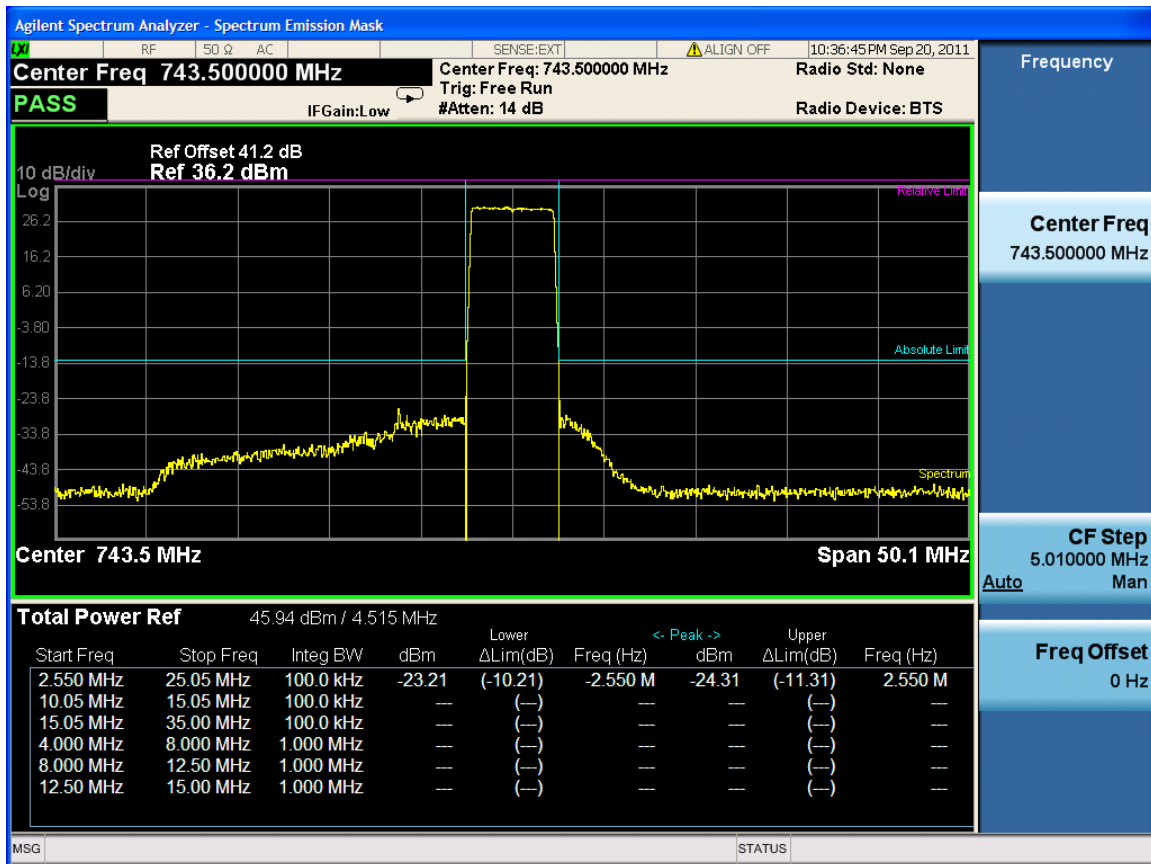
5M-Port 2 -730.5MHz



5M-Port 2 -737MHz



5M-Port 2 -743.5MHz



## 12 FREQUENCY STABILITY

**Applicable Standard:** FCC § 2.1055,

Requirements: FCC § 2.1055 (a)(d), The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

## Test Equipment List and Details

| Manufacturer | Description         | Model  | Serial Number | Calibration Date | Calibration Due Date |
|--------------|---------------------|--------|---------------|------------------|----------------------|
| GZ-ESPEC     | Temperature Chamber | EW0470 | 06113028      | 2011-1-26        | 2012-1-26            |

| Manufacturer | Description                     | Model         | Serial Number | Calibration Date | Calibration Due Date |
|--------------|---------------------------------|---------------|---------------|------------------|----------------------|
| Agilent      | MXA Series<br>Spectrum Analyzer | N9030A        | MY49431143    | 2015.09.26       | 2016.09.14           |
| DTS          | DTS 40dB<br>Attenuator          | DTS100-40-3-1 | 09112005      | 2015.07.19       | 2016.07.19           |

**\*statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

## Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Spectrum Analyzer via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 150 minutes, the frequency output was recorded from the counter.

Frequency Stability vs. Voltage: An external variable DC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.

## Environmental Conditions

|                    |           |
|--------------------|-----------|
| Normal condition:  | 25° C     |
| Relative Humidity: | 54%       |
| ATM Pressure:      | 1011 mbar |

**Test Result:** Pass**Test Mode:** Transmitting LTE**Test Data****Frequency Stability Versus Temperature**

| Frequency Stability vs Temperature (Channel Bandwidth:15M Frequency :735.5MHz) |                                   |      |                              |       |             |            |        |
|--------------------------------------------------------------------------------|-----------------------------------|------|------------------------------|-------|-------------|------------|--------|
| Temperature (°C)                                                               | Power Supplied (V <sub>DC</sub> ) | Port | Frequency Measure Error (Hz) | E-TM  | Limit (ppm) | Limit (Hz) | Result |
| -40                                                                            | -48                               | 1    | 0.223                        | TM2.0 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 0.193                        | TM3.1 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 0.281                        | TM3.2 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 0.226                        | TM3.3 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   | 2    | 0.225                        | TM2.0 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 0.248                        | TM3.1 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 0.119                        | TM3.2 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 1.550                        | TM3.3 | 0.05        | 36.775     | PASS   |
| -30                                                                            | -48                               | 1    | 0.117                        | TM2.0 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 0.334                        | TM3.1 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 0.047                        | TM3.2 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 0.382                        | TM3.3 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   | 2    | 0.172                        | TM2.0 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 0.778                        | TM3.1 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 0.534                        | TM3.2 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 0.228                        | TM3.3 | 0.05        | 36.775     | PASS   |
| -20                                                                            | -48                               | 1    | 0.052                        | TM2.0 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 0.515                        | TM3.1 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 0.201                        | TM3.2 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   |      | 0.591                        | TM3.3 | 0.05        | 36.775     | PASS   |
|                                                                                |                                   | 2    | 0.206                        | TM2.0 | 0.05        | 36.775     | PASS   |

|     |   |  |       |       |      |        |      |
|-----|---|--|-------|-------|------|--------|------|
|     |   |  | 0.014 | TM3.1 | 0.05 | 36.775 | PASS |
|     |   |  | 0.063 | TM3.2 | 0.05 | 36.775 | PASS |
|     |   |  | 0.313 | TM3.3 | 0.05 | 36.775 | PASS |
| -10 | 1 |  | 0.037 | TM2.0 | 0.05 | 36.775 | PASS |
|     |   |  | 0.547 | TM3.1 | 0.05 | 36.775 | PASS |
|     |   |  | 0.604 | TM3.2 | 0.05 | 36.775 | PASS |
|     |   |  | 0.143 | TM3.3 | 0.05 | 36.775 | PASS |
|     | 2 |  | 0.172 | TM2.0 | 0.05 | 36.775 | PASS |
|     |   |  | 0.156 | TM3.1 | 0.05 | 36.775 | PASS |
|     |   |  | 0.401 | TM3.2 | 0.05 | 36.775 | PASS |
|     |   |  | 0.101 | TM3.3 | 0.05 | 36.775 | PASS |
| 0   | 1 |  | 0.068 | TM2.0 | 0.05 | 36.775 | PASS |
|     |   |  | 0.030 | TM3.1 | 0.05 | 36.775 | PASS |
|     |   |  | 0.281 | TM3.2 | 0.05 | 36.775 | PASS |
|     |   |  | 0.137 | TM3.3 | 0.05 | 36.775 | PASS |
|     | 2 |  | 0.160 | TM2.0 | 0.05 | 36.775 | PASS |
|     |   |  | 0.182 | TM3.1 | 0.05 | 36.775 | PASS |
|     |   |  | 0.490 | TM3.2 | 0.05 | 36.775 | PASS |
|     |   |  | 0.069 | TM3.3 | 0.05 | 36.775 | PASS |
| 10  | 1 |  | 1.010 | TM2.0 | 0.05 | 36.775 | PASS |
|     |   |  | 0.233 | TM3.1 | 0.05 | 36.775 | PASS |
|     |   |  | 0.162 | TM3.2 | 0.05 | 36.775 | PASS |
|     |   |  | 0.150 | TM3.3 | 0.05 | 36.775 | PASS |
|     | 2 |  | 0.090 | TM2.0 | 0.05 | 36.775 | PASS |
|     |   |  | 0.173 | TM3.1 | 0.05 | 36.775 | PASS |
|     |   |  | 0.013 | TM3.2 | 0.05 | 36.775 | PASS |
|     |   |  | 0.020 | TM3.3 | 0.05 | 36.775 | PASS |
| 20  | 1 |  | 0.430 | TM2.0 | 0.05 | 36.775 | PASS |
|     |   |  | 0.532 | TM3.1 | 0.05 | 36.775 | PASS |
|     |   |  | 0.564 | TM3.2 | 0.05 | 36.775 | PASS |
|     |   |  | 0.113 | TM3.3 | 0.05 | 36.775 | PASS |
|     | 2 |  | 0.678 | TM2.0 | 0.05 | 36.775 | PASS |
|     |   |  | 0.156 | TM3.1 | 0.05 | 36.775 | PASS |
|     |   |  | 0.418 | TM3.2 | 0.05 | 36.775 | PASS |
|     |   |  | 0.132 | TM3.3 | 0.05 | 36.775 | PASS |
| 30  | 1 |  | 0.768 | TM2.0 | 0.05 | 36.775 | PASS |
|     |   |  | 1.030 | TM3.1 | 0.05 | 36.775 | PASS |
|     |   |  | 3.281 | TM3.2 | 0.05 | 36.775 | PASS |

|    |  |   |       |       |      |        |      |
|----|--|---|-------|-------|------|--------|------|
|    |  | 2 | 0.137 | TM3.3 | 0.05 | 36.775 | PASS |
|    |  |   | 2.168 | TM2.0 | 0.05 | 36.775 | PASS |
|    |  |   | 2.183 | TM3.1 | 0.05 | 36.775 | PASS |
|    |  |   | 0.498 | TM3.2 | 0.05 | 36.775 | PASS |
| 40 |  | 1 | 0.269 | TM3.3 | 0.05 | 36.775 | PASS |
|    |  |   | 0.100 | TM2.0 | 0.05 | 36.775 | PASS |
|    |  |   | 0.333 | TM3.1 | 0.05 | 36.775 | PASS |
|    |  |   | 0.264 | TM3.2 | 0.05 | 36.775 | PASS |
|    |  | 2 | 0.815 | TM3.3 | 0.05 | 36.775 | PASS |
|    |  |   | 1.090 | TM2.0 | 0.05 | 36.775 | PASS |
|    |  |   | 1.121 | TM3.1 | 0.05 | 36.775 | PASS |
|    |  |   | 1.018 | TM3.2 | 0.05 | 36.775 | PASS |
| 50 |  | 1 | 1.412 | TM3.3 | 0.05 | 36.775 | PASS |
|    |  |   | 1.801 | TM2.0 | 0.05 | 36.775 | PASS |
|    |  |   | 1.324 | TM3.1 | 0.05 | 36.775 | PASS |
|    |  |   | 0.264 | TM3.2 | 0.05 | 36.775 | PASS |
|    |  | 2 | 0.815 | TM3.3 | 0.05 | 36.775 | PASS |
|    |  |   | 1.999 | TM2.0 | 0.05 | 36.775 | PASS |
|    |  |   | 1.123 | TM3.1 | 0.05 | 36.775 | PASS |
|    |  |   | 0.010 | TM3.2 | 0.05 | 36.775 | PASS |
| 55 |  | 1 | 0.853 | TM3.3 | 0.05 | 36.775 | PASS |
|    |  |   | 0.822 | TM2.0 | 0.05 | 36.775 | PASS |
|    |  |   | 1.511 | TM3.1 | 0.05 | 36.775 | PASS |
|    |  |   | 0.330 | TM3.2 | 0.05 | 36.775 | PASS |
|    |  | 2 | 0.715 | TM3.3 | 0.05 | 36.775 | PASS |
|    |  |   | 1.999 | TM2.0 | 0.05 | 36.775 | PASS |
|    |  |   | 1.123 | TM3.1 | 0.05 | 36.775 | PASS |
|    |  |   | 0.010 | TM3.2 | 0.05 | 36.775 | PASS |
|    |  | 2 | 0.853 | TM3.3 | 0.05 | 36.775 | PASS |
|    |  |   | 0.853 | TM3.3 | 0.05 | 36.775 | PASS |
|    |  |   | 0.853 | TM3.3 | 0.05 | 36.775 | PASS |
|    |  |   | 0.853 | TM3.3 | 0.05 | 36.775 | PASS |

**Frequency Stability vs Temperature (Channel Bandwidth:15M Frequency :737MHz)**

| Temperature (°C) | Power Supplied (V <sub>DC</sub> ) | Port | Frequency Measure Error (Hz) | E-TM  | Limit (ppm) | Limit (Hz) | Result |
|------------------|-----------------------------------|------|------------------------------|-------|-------------|------------|--------|
| -40              | -48                               | 1    | 1.320                        | TM2.0 | 0.05        | 36.85      | PASS   |
|                  |                                   |      | 1.193                        | TM3.1 | 0.05        | 36.85      | PASS   |
|                  |                                   |      | 1.211                        | TM3.2 | 0.05        | 36.85      | PASS   |
|                  |                                   |      | 0.521                        | TM3.3 | 0.05        | 36.85      | PASS   |

|     |  |   |       |       |      |       |      |
|-----|--|---|-------|-------|------|-------|------|
|     |  | 2 | 0.515 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 0.318 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 1.121 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  |   | 0.700 | TM3.3 | 0.05 | 36.85 | PASS |
| -30 |  | 1 | 0.817 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 1.331 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 1.940 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  |   | 0.587 | TM3.3 | 0.05 | 36.85 | PASS |
|     |  | 2 | 1.172 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 1.001 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 0.502 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  |   | 0.358 | TM3.3 | 0.05 | 36.85 | PASS |
| -20 |  | 1 | 1.058 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 0.710 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 1.222 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  |   | 0.591 | TM3.3 | 0.05 | 36.85 | PASS |
|     |  | 2 | 0.206 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 1.022 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 1.067 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  |   | 1.313 | TM3.3 | 0.05 | 36.85 | PASS |
| -10 |  | 1 | 1.137 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 1.500 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 1.633 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  |   | 0.043 | TM3.3 | 0.05 | 36.85 | PASS |
|     |  | 2 | 0.270 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 0.357 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 0.302 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  |   | 0.403 | TM3.3 | 0.05 | 36.85 | PASS |
| 0   |  | 1 | 1.071 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 2.055 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 1.226 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  |   | 1.157 | TM3.3 | 0.05 | 36.85 | PASS |
|     |  | 2 | 0.523 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 1.132 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 0.591 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  |   | 0.269 | TM3.3 | 0.05 | 36.85 | PASS |
| 10  |  | 1 | 1.011 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 0.330 | TM3.1 | 0.05 | 36.85 | PASS |

|    |  |   |       |       |      |       |      |
|----|--|---|-------|-------|------|-------|------|
|    |  |   | 1.102 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.151 | TM3.3 | 0.05 | 36.85 | PASS |
|    |  | 2 | 1.090 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 0.271 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 0.513 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.421 | TM3.3 | 0.05 | 36.85 | PASS |
| 20 |  | 1 | 0.325 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 1.531 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 0.427 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 2.114 | TM3.3 | 0.05 | 36.85 | PASS |
|    |  | 2 | 1.700 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 1.157 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 0.523 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.050 | TM3.3 | 0.05 | 36.85 | PASS |
| 30 |  | 1 | 0.624 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 1.031 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 3.281 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 2.137 | TM3.3 | 0.05 | 36.85 | PASS |
|    |  | 2 | 2.168 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 3.183 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 0.408 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 2.273 | TM3.3 | 0.05 | 36.85 | PASS |
| 40 |  | 1 | 1.186 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 2.334 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 0.268 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.915 | TM3.3 | 0.05 | 36.85 | PASS |
|    |  | 2 | 2.098 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 1.135 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 1.456 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 1.284 | TM3.3 | 0.05 | 36.85 | PASS |
| 50 |  | 1 | 2.804 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 0.325 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 1.265 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.815 | TM3.3 | 0.05 | 36.85 | PASS |
|    |  | 2 | 2.021 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 1.200 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 1.015 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.059 | TM3.3 | 0.05 | 36.85 | PASS |

|    |  |   |       |       |      |       |      |
|----|--|---|-------|-------|------|-------|------|
| 55 |  | 1 | 1.028 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 1.355 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 0.488 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.664 | TM3.3 | 0.05 | 36.85 | PASS |
|    |  | 2 | 1.125 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 1.150 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 0.170 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.354 | TM3.3 | 0.05 | 36.85 | PASS |

| Frequency Stability vs Temperature （Channel Bandwidth:15M    Frequency :738.5MHz） |                                   |      |                               |       |              |             |        |
|-----------------------------------------------------------------------------------|-----------------------------------|------|-------------------------------|-------|--------------|-------------|--------|
| Temperature (℃)                                                                   | Power Supplied (V <sub>DC</sub> ) | Port | Frequency Measure Error ( Hz) | E-TM  | Limit ( ppm) | Limit ( Hz) | Result |
| -40                                                                               | -48                               | 1    | 0.012                         | TM2.0 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 0.265                         | TM3.1 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 2.576                         | TM3.2 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 0.569                         | TM3.3 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   | 2    | 1.517                         | TM2.0 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 1.321                         | TM3.1 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 0.010                         | TM3.2 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 2.056                         | TM3.3 | 0.05         | 36.925      | PASS   |
| -30                                                                               |                                   | 1    | 0.817                         | TM2.0 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 1.385                         | TM3.1 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 1.367                         | TM3.2 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 2.597                         | TM3.3 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   | 2    | 0.378                         | TM2.0 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 0.050                         | TM3.1 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 0.012                         | TM3.2 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 0.358                         | TM3.3 | 0.05         | 36.925      | PASS   |
| -20                                                                               |                                   | 1    | 1.240                         | TM2.0 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 2.721                         | TM3.1 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 2.279                         | TM3.2 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 0.591                         | TM3.3 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   | 2    | 1.276                         | TM2.0 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 1.325                         | TM3.1 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 0.067                         | TM3.2 | 0.05         | 36.925      | PASS   |
|                                                                                   |                                   |      | 0.321                         | TM3.3 | 0.05         | 36.925      | PASS   |
| -10                                                                               |                                   |      | 1                             | 1.178 | TM2.0        | 0.05        | 36.925 |

|       |       |       |       |        |        |        |      |
|-------|-------|-------|-------|--------|--------|--------|------|
|       |       |       | 1.532 | TM3.1  | 0.05   | 36.925 | PASS |
|       |       |       | 0.670 | TM3.2  | 0.05   | 36.925 | PASS |
|       |       |       | 0.746 | TM3.3  | 0.05   | 36.925 | PASS |
|       |       | 2     | 1.270 | TM2.0  | 0.05   | 36.925 | PASS |
|       |       |       | 0.323 | TM3.1  | 0.05   | 36.925 | PASS |
|       |       |       | 0.374 | TM3.2  | 0.05   | 36.925 | PASS |
|       |       |       | 1.407 | TM3.3  | 0.05   | 36.925 | PASS |
|       |       | 1     | 0.075 | TM2.0  | 0.05   | 36.925 | PASS |
|       |       |       | 3.055 | TM3.1  | 0.05   | 36.925 | PASS |
|       |       |       | 0.276 | TM3.2  | 0.05   | 36.925 | PASS |
|       |       |       | 1.187 | TM3.3  | 0.05   | 36.925 | PASS |
|       |       | 2     | 0.534 | TM2.0  | 0.05   | 36.925 | PASS |
| 1.186 | TM3.1 |       | 0.05  | 36.925 | PASS   |        |      |
| 3.520 | TM3.2 |       | 0.05  | 36.925 | PASS   |        |      |
| 1.260 | TM3.3 |       | 0.05  | 36.925 | PASS   |        |      |
| 0     | 1     | 2.010 | TM2.0 | 0.05   | 36.925 | PASS   |      |
|       |       | 0.330 | TM3.1 | 0.05   | 36.925 | PASS   |      |
|       |       | 0.105 | TM3.2 | 0.05   | 36.925 | PASS   |      |
|       |       | 0.151 | TM3.3 | 0.05   | 36.925 | PASS   |      |
|       | 2     | 1.090 | TM2.0 | 0.05   | 36.925 | PASS   |      |
|       |       | 2.223 | TM3.1 | 0.05   | 36.925 | PASS   |      |
|       |       | 1.518 | TM3.2 | 0.05   | 36.925 | PASS   |      |
|       |       | 0.398 | TM3.3 | 0.05   | 36.925 | PASS   |      |
| 10    | 1     | 0.350 | TM2.0 | 0.05   | 36.925 | PASS   |      |
|       |       | 0.525 | TM3.1 | 0.05   | 36.925 | PASS   |      |
|       |       | 0.341 | TM3.2 | 0.05   | 36.925 | PASS   |      |
|       |       | 0.118 | TM3.3 | 0.05   | 36.925 | PASS   |      |
|       | 2     | 1.809 | TM2.0 | 0.05   | 36.925 | PASS   |      |
|       |       | 0.151 | TM3.1 | 0.05   | 36.925 | PASS   |      |
|       |       | 0.589 | TM3.2 | 0.05   | 36.925 | PASS   |      |
|       |       | 0.450 | TM3.3 | 0.05   | 36.925 | PASS   |      |
| 20    | 1     | 0.728 | TM2.0 | 0.05   | 36.925 | PASS   |      |
|       |       | 0.038 | TM3.1 | 0.05   | 36.925 | PASS   |      |
|       |       | 1.289 | TM3.2 | 0.05   | 36.925 | PASS   |      |
|       |       | 0.351 | TM3.3 | 0.05   | 36.925 | PASS   |      |
|       | 2     | 0.168 | TM2.0 | 0.05   | 36.925 | PASS   |      |
|       |       | 2.185 | TM3.1 | 0.05   | 36.925 | PASS   |      |
|       |       | 0.408 | TM3.2 | 0.05   | 36.925 | PASS   |      |
|       | 30    |       |       |        |        |        |      |

|    |  |   |       |       |      |        |      |
|----|--|---|-------|-------|------|--------|------|
|    |  |   | 3.58  | TM3.3 | 0.05 | 36.925 | PASS |
| 40 |  | 1 | 2.176 | TM2.0 | 0.05 | 36.925 | PASS |
|    |  |   | 3.002 | TM3.1 | 0.05 | 36.925 | PASS |
|    |  |   | 2.540 | TM3.2 | 0.05 | 36.925 | PASS |
|    |  |   | 0.017 | TM3.3 | 0.05 | 36.925 | PASS |
|    |  | 2 | 3.045 | TM2.0 | 0.05 | 36.925 | PASS |
|    |  |   | 1.125 | TM3.1 | 0.05 | 36.925 | PASS |
|    |  |   | 0.432 | TM3.2 | 0.05 | 36.925 | PASS |
|    |  |   | 0.981 | TM3.3 | 0.05 | 36.925 | PASS |
| 50 |  | 1 | 0.524 | TM2.0 | 0.05 | 36.925 | PASS |
|    |  |   | 1.326 | TM3.1 | 0.05 | 36.925 | PASS |
|    |  |   | 0.265 | TM3.2 | 0.05 | 36.925 | PASS |
|    |  |   | 3.810 | TM3.3 | 0.05 | 36.925 | PASS |
|    |  | 2 | 0.021 | TM2.0 | 0.05 | 36.925 | PASS |
|    |  |   | 1.205 | TM3.1 | 0.05 | 36.925 | PASS |
|    |  |   | 0.715 | TM3.2 | 0.05 | 36.925 | PASS |
|    |  |   | 1.659 | TM3.3 | 0.05 | 36.925 | PASS |
| 55 |  | 1 | 0.128 | TM2.0 | 0.05 | 36.925 | PASS |
|    |  |   | 1.361 | TM3.1 | 0.05 | 36.925 | PASS |
|    |  |   | 1.425 | TM3.2 | 0.05 | 36.925 | PASS |
|    |  |   | 0.664 | TM3.3 | 0.05 | 36.925 | PASS |
|    |  | 2 | 0.185 | TM2.0 | 0.05 | 36.925 | PASS |
|    |  |   | 2.151 | TM3.1 | 0.05 | 36.925 | PASS |
|    |  |   | 1.165 | TM3.2 | 0.05 | 36.925 | PASS |
|    |  |   | 0.345 | TM3.3 | 0.05 | 36.925 | PASS |

**Frequency Stability vs Temperature (Channel Bandwidth:10M Frequency :733MHz)**

| Temperature (°C) | Power Supplied (V <sub>DC</sub> ) | Port | Frequency Measure Error (Hz) | E-TM  | Limit (ppm) | Limit (Hz) | Result |
|------------------|-----------------------------------|------|------------------------------|-------|-------------|------------|--------|
| -40              | -48                               | 1    | 1.232                        | TM2.0 | 0.05        | 36.65      | PASS   |
|                  |                                   |      | 3.001                        | TM3.1 | 0.05        | 36.65      | PASS   |
|                  |                                   |      | 0.890                        | TM3.2 | 0.05        | 36.65      | PASS   |
|                  |                                   |      | 0.528                        | TM3.3 | 0.05        | 36.65      | PASS   |
|                  |                                   | 2    | 0.413                        | TM2.0 | 0.05        | 36.65      | PASS   |
|                  |                                   |      | 2.322                        | TM3.1 | 0.05        | 36.65      | PASS   |
|                  |                                   |      | 1.038                        | TM3.2 | 0.05        | 36.65      | PASS   |
|                  |                                   |      | 1.034                        | TM3.3 | 0.05        | 36.65      | PASS   |

|     |   |       |       |      |       |      |
|-----|---|-------|-------|------|-------|------|
| -30 | 1 | 0.907 | TM2.0 | 0.05 | 36.65 | PASS |
|     |   | 0.485 | TM3.1 | 0.05 | 36.65 | PASS |
|     |   | 0.351 | TM3.2 | 0.05 | 36.65 | PASS |
|     |   | 2.567 | TM3.3 | 0.05 | 36.65 | PASS |
|     | 2 | 1.352 | TM2.0 | 0.05 | 36.65 | PASS |
|     |   | 2.036 | TM3.1 | 0.05 | 36.65 | PASS |
|     |   | 0.322 | TM3.2 | 0.05 | 36.65 | PASS |
|     |   | 0.854 | TM3.3 | 0.05 | 36.65 | PASS |
| -20 | 1 | 1.240 | TM2.0 | 0.05 | 36.65 | PASS |
|     |   | 2.721 | TM3.1 | 0.05 | 36.65 | PASS |
|     |   | 0.225 | TM3.2 | 0.05 | 36.65 | PASS |
|     |   | 0.564 | TM3.3 | 0.05 | 36.65 | PASS |
|     | 2 | 0.253 | TM2.0 | 0.05 | 36.65 | PASS |
|     |   | 1.325 | TM3.1 | 0.05 | 36.65 | PASS |
|     |   | 1.053 | TM3.2 | 0.05 | 36.65 | PASS |
|     |   | 0.384 | TM3.3 | 0.05 | 36.65 | PASS |
| -10 | 1 | 1.167 | TM2.0 | 0.05 | 36.65 | PASS |
|     |   | 1.533 | TM3.1 | 0.05 | 36.65 | PASS |
|     |   | 1.650 | TM3.2 | 0.05 | 36.65 | PASS |
|     |   | 0.746 | TM3.3 | 0.05 | 36.65 | PASS |
|     | 2 | 2.219 | TM2.0 | 0.05 | 36.65 | PASS |
|     |   | 0.323 | TM3.1 | 0.05 | 36.65 | PASS |
|     |   | 0.374 | TM3.2 | 0.05 | 36.65 | PASS |
|     |   | 0.408 | TM3.3 | 0.05 | 36.65 | PASS |
| 0   | 1 | 1.068 | TM2.0 | 0.05 | 36.65 | PASS |
|     |   | 3.055 | TM3.1 | 0.05 | 36.65 | PASS |
|     |   | 0.282 | TM3.2 | 0.05 | 36.65 | PASS |
|     |   | 1.191 | TM3.3 | 0.05 | 36.65 | PASS |
|     | 2 | 1.552 | TM2.0 | 0.05 | 36.65 | PASS |
|     |   | 1.137 | TM3.1 | 0.05 | 36.65 | PASS |
|     |   | 3.520 | TM3.2 | 0.05 | 36.65 | PASS |
|     |   | 1.260 | TM3.3 | 0.05 | 36.65 | PASS |
| 10  | 1 | 3.021 | TM2.0 | 0.05 | 36.65 | PASS |
|     |   | 1.384 | TM3.1 | 0.05 | 36.65 | PASS |
|     |   | 0.193 | TM3.2 | 0.05 | 36.65 | PASS |
|     |   | 1.153 | TM3.3 | 0.05 | 36.65 | PASS |
|     | 2 | 1.530 | TM2.0 | 0.05 | 36.65 | PASS |
|     |   | 2.273 | TM3.1 | 0.05 | 36.65 | PASS |

|    |   |  |       |       |      |       |      |
|----|---|--|-------|-------|------|-------|------|
|    |   |  | 1.518 | TM3.2 | 0.05 | 36.65 | PASS |
|    |   |  | 2.352 | TM3.3 | 0.05 | 36.65 | PASS |
| 20 | 1 |  | 1.385 | TM2.0 | 0.05 | 36.65 | PASS |
|    |   |  | 1.865 | TM3.1 | 0.05 | 36.65 | PASS |
|    |   |  | 0.741 | TM3.2 | 0.05 | 36.65 | PASS |
|    |   |  | 0.189 | TM3.3 | 0.05 | 36.65 | PASS |
|    |   |  | 1.868 | TM2.0 | 0.05 | 36.65 | PASS |
|    | 2 |  | 1.158 | TM3.1 | 0.05 | 36.65 | PASS |
|    |   |  | 0.566 | TM3.2 | 0.05 | 36.65 | PASS |
|    |   |  | 1.425 | TM3.3 | 0.05 | 36.65 | PASS |
| 30 | 1 |  | 1.729 | TM2.0 | 0.05 | 36.65 | PASS |
|    |   |  | 2.038 | TM3.1 | 0.05 | 36.65 | PASS |
|    |   |  | 1.289 | TM3.2 | 0.05 | 36.65 | PASS |
|    |   |  | 0.351 | TM3.3 | 0.05 | 36.65 | PASS |
|    | 2 |  | 0.168 | TM2.0 | 0.05 | 36.65 | PASS |
|    |   |  | 4.050 | TM3.1 | 0.05 | 36.65 | PASS |
|    |   |  | 2.640 | TM3.2 | 0.05 | 36.65 | PASS |
|    |   |  | 0.590 | TM3.3 | 0.05 | 36.65 | PASS |
| 40 | 1 |  | 1.172 | TM2.0 | 0.05 | 36.65 | PASS |
|    |   |  | 0.021 | TM3.1 | 0.05 | 36.65 | PASS |
|    |   |  | 0.539 | TM3.2 | 0.05 | 36.65 | PASS |
|    |   |  | 0.050 | TM3.3 | 0.05 | 36.65 | PASS |
|    | 2 |  | 4.904 | TM2.0 | 0.05 | 36.65 | PASS |
|    |   |  | 0.050 | TM3.1 | 0.05 | 36.65 | PASS |
|    |   |  | 3.254 | TM3.2 | 0.05 | 36.65 | PASS |
|    |   |  | 0.087 | TM3.3 | 0.05 | 36.65 | PASS |
| 50 | 1 |  | 0.524 | TM2.0 | 0.05 | 36.65 | PASS |
|    |   |  | 2.322 | TM3.1 | 0.05 | 36.65 | PASS |
|    |   |  | 1.260 | TM3.2 | 0.05 | 36.65 | PASS |
|    |   |  | 2.470 | TM3.3 | 0.05 | 36.65 | PASS |
|    | 2 |  | 1.521 | TM2.0 | 0.05 | 36.65 | PASS |
|    |   |  | 1.325 | TM3.1 | 0.05 | 36.65 | PASS |
|    |   |  | 0.715 | TM3.2 | 0.05 | 36.65 | PASS |
|    |   |  | 0.658 | TM3.3 | 0.05 | 36.65 | PASS |
| 55 | 1 |  | 2.100 | TM2.0 | 0.05 | 36.65 | PASS |
|    |   |  | 3.068 | TM3.1 | 0.05 | 36.65 | PASS |
|    |   |  | 0.480 | TM3.2 | 0.05 | 36.65 | PASS |
|    |   |  | 0.790 | TM3.3 | 0.05 | 36.65 | PASS |

|  |  |   |       |       |      |       |      |
|--|--|---|-------|-------|------|-------|------|
|  |  | 2 | 2.350 | TM2.0 | 0.05 | 36.65 | PASS |
|  |  |   | 0.350 | TM3.1 | 0.05 | 36.65 | PASS |
|  |  |   | 2.371 | TM3.2 | 0.05 | 36.65 | PASS |
|  |  |   | 1.210 | TM3.3 | 0.05 | 36.65 | PASS |

| Frequency Stability vs Temperature （Channel Bandwidth:10M    Frequency :737MHz） |                                         |      |                                     |       |                 |                |        |      |
|---------------------------------------------------------------------------------|-----------------------------------------|------|-------------------------------------|-------|-----------------|----------------|--------|------|
| Temperatu<br>re (℃)                                                             | Power<br>Supplied<br>(V <sub>DC</sub> ) | Port | Frequency<br>Measure Error<br>( Hz) | E-TM  | Limit<br>( ppm) | Limit<br>( Hz) | Result |      |
| -40                                                                             | -48                                     | 1    | 0.050                               | TM2.0 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 1.025                               | TM3.1 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 3.217                               | TM3.2 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 0.541                               | TM3.3 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         | 2    | 3.756                               | TM2.0 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 1.457                               | TM3.1 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 0.951                               | TM3.2 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 0.035                               | TM3.3 | 0.05            | 36.85          | PASS   |      |
| -30                                                                             |                                         | -48  | 1                                   | 1.925 | TM2.0           | 0.05           | 36.85  | PASS |
|                                                                                 |                                         |      |                                     | 1.432 | TM3.1           | 0.05           | 36.85  | PASS |
|                                                                                 |                                         |      |                                     | 0.355 | TM3.2           | 0.05           | 36.85  | PASS |
|                                                                                 |                                         |      |                                     | 0.287 | TM3.3           | 0.05           | 36.85  | PASS |
|                                                                                 |                                         |      | 2                                   | 0.426 | TM2.0           | 0.05           | 36.85  | PASS |
|                                                                                 |                                         |      |                                     | 0.078 | TM3.1           | 0.05           | 36.85  | PASS |
|                                                                                 |                                         |      |                                     | 0.020 | TM3.2           | 0.05           | 36.85  | PASS |
|                                                                                 |                                         |      |                                     | 0.867 | TM3.3           | 0.05           | 36.85  | PASS |
| -20                                                                             | -48                                     | 1    | 3.211                               | TM2.0 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 1.087                               | TM3.1 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 2.284                               | TM3.2 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 3.654                               | TM3.3 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         | 2    | 0.041                               | TM2.0 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 1.364                               | TM3.1 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 0.562                               | TM3.2 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 4.380                               | TM3.3 | 0.05            | 36.85          | PASS   |      |
| -10                                                                             | -48                                     | 1    | 2.351                               | TM2.0 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 3.507                               | TM3.1 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 0.007                               | TM3.2 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         |      | 0.747                               | TM3.3 | 0.05            | 36.85          | PASS   |      |
|                                                                                 |                                         | 2    | 1.050                               | TM2.0 | 0.05            | 36.85          | PASS   |      |

|    |   |  |       |       |      |       |      |
|----|---|--|-------|-------|------|-------|------|
|    |   |  | 1.351 | TM3.1 | 0.05 | 36.85 | PASS |
|    |   |  | 2.324 | TM3.2 | 0.05 | 36.85 | PASS |
|    |   |  | 2.476 | TM3.3 | 0.05 | 36.85 | PASS |
| 0  | 1 |  | 0.168 | TM2.0 | 0.05 | 36.85 | PASS |
|    |   |  | 0.053 | TM3.1 | 0.05 | 36.85 | PASS |
|    |   |  | 0.589 | TM3.2 | 0.05 | 36.85 | PASS |
|    |   |  | 2.181 | TM3.3 | 0.05 | 36.85 | PASS |
|    | 2 |  | 0.537 | TM2.0 | 0.05 | 36.85 | PASS |
|    |   |  | 1.268 | TM3.1 | 0.05 | 36.85 | PASS |
|    |   |  | 0.551 | TM3.2 | 0.05 | 36.85 | PASS |
|    |   |  | 0.263 | TM3.3 | 0.05 | 36.85 | PASS |
| 10 | 1 |  | 0.221 | TM2.0 | 0.05 | 36.85 | PASS |
|    |   |  | 0.374 | TM3.1 | 0.05 | 36.85 | PASS |
|    |   |  | 0.127 | TM3.2 | 0.05 | 36.85 | PASS |
|    |   |  | 0.255 | TM3.3 | 0.05 | 36.85 | PASS |
|    | 2 |  | 1.580 | TM2.0 | 0.05 | 36.85 | PASS |
|    |   |  | 0.243 | TM3.1 | 0.05 | 36.85 | PASS |
|    |   |  | 3.508 | TM3.2 | 0.05 | 36.85 | PASS |
|    |   |  | 0.382 | TM3.3 | 0.05 | 36.85 | PASS |
| 20 | 1 |  | 0.594 | TM2.0 | 0.05 | 36.85 | PASS |
|    |   |  | 0.821 | TM3.1 | 0.05 | 36.85 | PASS |
|    |   |  | 1.642 | TM3.2 | 0.05 | 36.85 | PASS |
|    |   |  | 0.154 | TM3.3 | 0.05 | 36.85 | PASS |
|    | 2 |  | 1.837 | TM2.0 | 0.05 | 36.85 | PASS |
|    |   |  | 1.191 | TM3.1 | 0.05 | 36.85 | PASS |
|    |   |  | 0.582 | TM3.2 | 0.05 | 36.85 | PASS |
|    |   |  | 0.425 | TM3.3 | 0.05 | 36.85 | PASS |
| 30 | 1 |  | 0.382 | TM2.0 | 0.05 | 36.85 | PASS |
|    |   |  | 1.878 | TM3.1 | 0.05 | 36.85 | PASS |
|    |   |  | 0.385 | TM3.2 | 0.05 | 36.85 | PASS |
|    |   |  | 1.328 | TM3.3 | 0.05 | 36.85 | PASS |
|    | 2 |  | 0.351 | TM2.0 | 0.05 | 36.85 | PASS |
|    |   |  | 0.251 | TM3.1 | 0.05 | 36.85 | PASS |
|    |   |  | 0.649 | TM3.2 | 0.05 | 36.85 | PASS |
|    |   |  | 0.535 | TM3.3 | 0.05 | 36.85 | PASS |
| 40 | 1 |  | 0.150 | TM2.0 | 0.05 | 36.85 | PASS |
|    |   |  | 0.700 | TM3.1 | 0.05 | 36.85 | PASS |
|    |   |  | 0.537 | TM3.2 | 0.05 | 36.85 | PASS |

|    |  |   |       |       |      |       |      |
|----|--|---|-------|-------|------|-------|------|
| 50 |  | 2 | 2.158 | TM3.3 | 0.05 | 36.85 | PASS |
|    |  |   | 0.564 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 0.951 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 0.381 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 1.080 | TM3.3 | 0.05 | 36.85 | PASS |
|    |  | 1 | 0.681 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 0.547 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 0.367 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.167 | TM3.3 | 0.05 | 36.85 | PASS |
|    |  | 2 | 1.374 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 1.375 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 0.867 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.186 | TM3.3 | 0.05 | 36.85 | PASS |
| 55 |  | 1 | 0.805 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 0.568 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 1.437 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 1.758 | TM3.3 | 0.05 | 36.85 | PASS |
|    |  | 2 | 0.450 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 1.358 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 0.387 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.234 | TM3.3 | 0.05 | 36.85 | PASS |

**Frequency Stability vs Temperature (Channel Bandwidth:10M Frequency :741MHz)**

| Temperature (°C) | Power Supplied (V <sub>DC</sub> ) | Port | Frequency Measure Error (Hz) | E-TM  | Limit (ppm) | Limit (Hz) | Result |
|------------------|-----------------------------------|------|------------------------------|-------|-------------|------------|--------|
| -40              | -48                               | 1    | 3.357                        | TM2.0 | 0.05        | 37.05      | PASS   |
|                  |                                   |      | 0.127                        | TM3.1 | 0.05        | 37.05      | PASS   |
|                  |                                   |      | 0.041                        | TM3.2 | 0.05        | 37.05      | PASS   |
|                  |                                   |      | 0.542                        | TM3.3 | 0.05        | 37.05      | PASS   |
|                  |                                   | 2    | 2.374                        | TM2.0 | 0.05        | 37.05      | PASS   |
|                  |                                   |      | 0.436                        | TM3.1 | 0.05        | 37.05      | PASS   |
|                  |                                   |      | 1.922                        | TM3.2 | 0.05        | 37.05      | PASS   |
|                  |                                   |      | 1.744                        | TM3.3 | 0.05        | 37.05      | PASS   |
| -30              |                                   | 1    | 0.523                        | TM2.0 | 0.05        | 37.05      | PASS   |
|                  |                                   |      | 0.397                        | TM3.1 | 0.05        | 37.05      | PASS   |
|                  |                                   |      | 1.951                        | TM3.2 | 0.05        | 37.05      | PASS   |
|                  |                                   |      | 0.233                        | TM3.3 | 0.05        | 37.05      | PASS   |

|     |  |   |       |       |      |       |      |
|-----|--|---|-------|-------|------|-------|------|
|     |  | 2 | 1.485 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 2.558 | TM3.1 | 0.05 | 37.05 | PASS |
|     |  |   | 3.021 | TM3.2 | 0.05 | 37.05 | PASS |
|     |  |   | 1.588 | TM3.3 | 0.05 | 37.05 | PASS |
| -20 |  | 1 | 0.351 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 0.067 | TM3.1 | 0.05 | 37.05 | PASS |
|     |  |   | 2.057 | TM3.2 | 0.05 | 37.05 | PASS |
|     |  |   | 0.084 | TM3.3 | 0.05 | 37.05 | PASS |
|     |  | 2 | 1.022 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 0.857 | TM3.1 | 0.05 | 37.05 | PASS |
|     |  |   | 1.694 | TM3.2 | 0.05 | 37.05 | PASS |
|     |  |   | 1.322 | TM3.3 | 0.05 | 37.05 | PASS |
| -10 |  | 1 | 2.338 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 2.521 | TM3.1 | 0.05 | 37.05 | PASS |
|     |  |   | 0.424 | TM3.2 | 0.05 | 37.05 | PASS |
|     |  |   | 1.738 | TM3.3 | 0.05 | 37.05 | PASS |
|     |  | 2 | 2.050 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 2.100 | TM3.1 | 0.05 | 37.05 | PASS |
|     |  |   | 2.900 | TM3.2 | 0.05 | 37.05 | PASS |
|     |  |   | 2.457 | TM3.3 | 0.05 | 37.05 | PASS |
| 0   |  | 1 | 0.169 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 0.233 | TM3.1 | 0.05 | 37.05 | PASS |
|     |  |   | 0.287 | TM3.2 | 0.05 | 37.05 | PASS |
|     |  |   | 0.137 | TM3.3 | 0.05 | 37.05 | PASS |
|     |  | 2 | 0.583 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 1.268 | TM3.1 | 0.05 | 37.05 | PASS |
|     |  |   | 0.347 | TM3.2 | 0.05 | 37.05 | PASS |
|     |  |   | 0.914 | TM3.3 | 0.05 | 37.05 | PASS |
| 10  |  | 1 | 1.281 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 1.373 | TM3.1 | 0.05 | 37.05 | PASS |
|     |  |   | 0.134 | TM3.2 | 0.05 | 37.05 | PASS |
|     |  |   | 0.297 | TM3.3 | 0.05 | 37.05 | PASS |
|     |  | 2 | 1.580 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 0.243 | TM3.1 | 0.05 | 37.05 | PASS |
|     |  |   | 2.578 | TM3.2 | 0.05 | 37.05 | PASS |
|     |  |   | 1.384 | TM3.3 | 0.05 | 37.05 | PASS |
| 20  |  | 1 | 4.557 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 0.880 | TM3.1 | 0.05 | 37.05 | PASS |

|    |   |       |       |       |       |       |      |
|----|---|-------|-------|-------|-------|-------|------|
|    |   |       | 1.781 | TM3.2 | 0.05  | 37.05 | PASS |
|    |   |       | 0.503 | TM3.3 | 0.05  | 37.05 | PASS |
|    |   | 2     | 0.873 | TM2.0 | 0.05  | 37.05 | PASS |
|    |   |       | 0.191 | TM3.1 | 0.05  | 37.05 | PASS |
|    |   |       | 1.589 | TM3.2 | 0.05  | 37.05 | PASS |
|    |   |       | 1.487 | TM3.3 | 0.05  | 37.05 | PASS |
| 30 | 1 | 7.354 | TM2.0 | 0.05  | 37.05 | PASS  |      |
|    |   | 1.387 | TM3.1 | 0.05  | 37.05 | PASS  |      |
|    |   | 0.124 | TM3.2 | 0.05  | 37.05 | PASS  |      |
|    |   | 1.354 | TM3.3 | 0.05  | 37.05 | PASS  |      |
|    | 2 | 0.327 | TM2.0 | 0.05  | 37.05 | PASS  |      |
|    |   | 0.239 | TM3.1 | 0.05  | 37.05 | PASS  |      |
|    |   | 0.660 | TM3.2 | 0.05  | 37.05 | PASS  |      |
|    |   | 0.741 | TM3.3 | 0.05  | 37.05 | PASS  |      |
| 40 | 1 | 1.105 | TM2.0 | 0.05  | 37.05 | PASS  |      |
|    |   | 1.705 | TM3.1 | 0.05  | 37.05 | PASS  |      |
|    |   | 3.557 | TM3.2 | 0.05  | 37.05 | PASS  |      |
|    |   | 1.158 | TM3.3 | 0.05  | 37.05 | PASS  |      |
|    | 2 | 1.563 | TM2.0 | 0.05  | 37.05 | PASS  |      |
|    |   | 0.254 | TM3.1 | 0.05  | 37.05 | PASS  |      |
|    |   | 0.394 | TM3.2 | 0.05  | 37.05 | PASS  |      |
|    |   | 0.224 | TM3.3 | 0.05  | 37.05 | PASS  |      |
| 50 | 1 | 4.591 | TM2.0 | 0.05  | 37.05 | PASS  |      |
|    |   | 3.378 | TM3.1 | 0.05  | 37.05 | PASS  |      |
|    |   | 0.397 | TM3.2 | 0.05  | 37.05 | PASS  |      |
|    |   | 0.678 | TM3.3 | 0.05  | 37.05 | PASS  |      |
|    | 2 | 0.558 | TM2.0 | 0.05  | 37.05 | PASS  |      |
|    |   | 1.375 | TM3.1 | 0.05  | 37.05 | PASS  |      |
|    |   | 0.867 | TM3.2 | 0.05  | 37.05 | PASS  |      |
|    |   | 3.126 | TM3.3 | 0.05  | 37.05 | PASS  |      |
| 55 | 1 | 2.825 | TM2.0 | 0.05  | 37.05 | PASS  |      |
|    |   | 1.564 | TM3.1 | 0.05  | 37.05 | PASS  |      |
|    |   | 0.374 | TM3.2 | 0.05  | 37.05 | PASS  |      |
|    |   | 0.757 | TM3.3 | 0.05  | 37.05 | PASS  |      |
|    | 2 | 2.437 | TM2.0 | 0.05  | 37.05 | PASS  |      |
|    |   | 0.375 | TM3.1 | 0.05  | 37.05 | PASS  |      |
|    |   | 1.387 | TM3.2 | 0.05  | 37.05 | PASS  |      |
|    |   | 1.237 | TM3.3 | 0.05  | 37.05 | PASS  |      |

| Frequency Stability vs Temperature （Channel Bandwidth:5M    Frequency :730.5MHz） |                                         |       |                                     |       |                 |                |        |
|----------------------------------------------------------------------------------|-----------------------------------------|-------|-------------------------------------|-------|-----------------|----------------|--------|
| Temperatu<br>re (℃)                                                              | Power<br>Supplied<br>(V <sub>DC</sub> ) | Port  | Frequency<br>Measure Error<br>( Hz) | E-TM  | Limit<br>( ppm) | Limit<br>( Hz) | Result |
| -40                                                                              | -48                                     | 1     | 1.637                               | TM2.0 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 2.537                               | TM3.1 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 1.037                               | TM3.2 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.583                               | TM3.3 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         | 2     | 1.267                               | TM2.0 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.286                               | TM3.1 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.394                               | TM3.2 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.481                               | TM3.3 | 0.05            | 36.525         | PASS   |
| -30                                                                              |                                         | 1     | 0.538                               | TM2.0 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 1.347                               | TM3.1 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.927                               | TM3.2 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 1.127                               | TM3.3 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         | 2     | 0.285                               | TM2.0 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.300                               | TM3.1 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.027                               | TM3.2 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.387                               | TM3.3 | 0.05            | 36.525         | PASS   |
| -20                                                                              |                                         | 1     | 0.751                               | TM2.0 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.877                               | TM3.1 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 1.258                               | TM3.2 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 2.083                               | TM3.3 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         | 2     | 2.017                               | TM2.0 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 1.388                               | TM3.1 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.050                               | TM3.2 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.701                               | TM3.3 | 0.05            | 36.525         | PASS   |
| -10                                                                              |                                         | 1     | 1.405                               | TM2.0 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.524                               | TM3.1 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.857                               | TM3.2 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.893                               | TM3.3 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         | 2     | 1.070                               | TM2.0 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.180                               | TM3.1 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 0.907                               | TM3.2 | 0.05            | 36.525         | PASS   |
|                                                                                  |                                         |       | 3.479                               | TM3.3 | 0.05            | 36.525         | PASS   |
| 0                                                                                | 1                                       | 1.268 | TM2.0                               | 0.05  | 36.525          | PASS           |        |
|                                                                                  |                                         | 1.276 | TM3.1                               | 0.05  | 36.525          | PASS           |        |

|    |  |   |       |       |      |        |      |
|----|--|---|-------|-------|------|--------|------|
|    |  |   | 1.257 | TM3.2 | 0.05 | 36.525 | PASS |
|    |  |   | 0.139 | TM3.3 | 0.05 | 36.525 | PASS |
|    |  | 2 | 0.557 | TM2.0 | 0.05 | 36.525 | PASS |
|    |  |   | 1.269 | TM3.1 | 0.05 | 36.525 | PASS |
|    |  |   | 0.337 | TM3.2 | 0.05 | 36.525 | PASS |
|    |  |   | 0.951 | TM3.3 | 0.05 | 36.525 | PASS |
| 10 |  | 1 | 2.282 | TM2.0 | 0.05 | 36.525 | PASS |
|    |  |   | 3.373 | TM3.1 | 0.05 | 36.525 | PASS |
|    |  |   | 2.131 | TM3.2 | 0.05 | 36.525 | PASS |
|    |  |   | 0.292 | TM3.3 | 0.05 | 36.525 | PASS |
|    |  | 2 | 0.589 | TM2.0 | 0.05 | 36.525 | PASS |
|    |  |   | 1.248 | TM3.1 | 0.05 | 36.525 | PASS |
|    |  |   | 0.598 | TM3.2 | 0.05 | 36.525 | PASS |
|    |  |   | 1.734 | TM3.3 | 0.05 | 36.525 | PASS |
| 20 |  | 1 | 0.587 | TM2.0 | 0.05 | 36.525 | PASS |
|    |  |   | 2.830 | TM3.1 | 0.05 | 36.525 | PASS |
|    |  |   | 3.771 | TM3.2 | 0.05 | 36.525 | PASS |
|    |  |   | 1.404 | TM3.3 | 0.05 | 36.525 | PASS |
|    |  | 2 | 1.833 | TM2.0 | 0.05 | 36.525 | PASS |
|    |  |   | 1.186 | TM3.1 | 0.05 | 36.525 | PASS |
|    |  |   | 0.574 | TM3.2 | 0.05 | 36.525 | PASS |
|    |  |   | 0.489 | TM3.3 | 0.05 | 36.525 | PASS |
| 30 |  | 1 | 0.837 | TM2.0 | 0.05 | 36.525 | PASS |
|    |  |   | 0.388 | TM3.1 | 0.05 | 36.525 | PASS |
|    |  |   | 2.125 | TM3.2 | 0.05 | 36.525 | PASS |
|    |  |   | 1.358 | TM3.3 | 0.05 | 36.525 | PASS |
|    |  | 2 | 1.357 | TM2.0 | 0.05 | 36.525 | PASS |
|    |  |   | 2.279 | TM3.1 | 0.05 | 36.525 | PASS |
|    |  |   | 1.667 | TM3.2 | 0.05 | 36.525 | PASS |
|    |  |   | 1.748 | TM3.3 | 0.05 | 36.525 | PASS |
| 40 |  | 1 | 0.575 | TM2.0 | 0.05 | 36.525 | PASS |
|    |  |   | 0.785 | TM3.1 | 0.05 | 36.525 | PASS |
|    |  |   | 0.577 | TM3.2 | 0.05 | 36.525 | PASS |
|    |  |   | 0.154 | TM3.3 | 0.05 | 36.525 | PASS |
|    |  | 2 | 0.483 | TM2.0 | 0.05 | 36.525 | PASS |
|    |  |   | 0.964 | TM3.1 | 0.05 | 36.525 | PASS |
|    |  |   | 2.384 | TM3.2 | 0.05 | 36.525 | PASS |
|    |  |   | 4.394 | TM3.3 | 0.05 | 36.525 | PASS |

|    |  |   |       |       |      |        |      |
|----|--|---|-------|-------|------|--------|------|
| 50 |  | 1 | 3.471 | TM2.0 | 0.05 | 36.525 | PASS |
|    |  |   | 0.768 | TM3.1 | 0.05 | 36.525 | PASS |
|    |  |   | 1.307 | TM3.2 | 0.05 | 36.525 | PASS |
|    |  |   | 2.600 | TM3.3 | 0.05 | 36.525 | PASS |
|    |  | 2 | 4.518 | TM2.0 | 0.05 | 36.525 | PASS |
|    |  |   | 1.315 | TM3.1 | 0.05 | 36.525 | PASS |
|    |  |   | 0.810 | TM3.2 | 0.05 | 36.525 | PASS |
|    |  |   | 0.124 | TM3.3 | 0.05 | 36.525 | PASS |
| 55 |  | 1 | 0.855 | TM2.0 | 0.05 | 36.525 | PASS |
|    |  |   | 2.504 | TM3.1 | 0.05 | 36.525 | PASS |
|    |  |   | 1.301 | TM3.2 | 0.05 | 36.525 | PASS |
|    |  |   | 0.728 | TM3.3 | 0.05 | 36.525 | PASS |
|    |  | 2 | 0.537 | TM2.0 | 0.05 | 36.525 | PASS |
|    |  |   | 0.895 | TM3.1 | 0.05 | 36.525 | PASS |
|    |  |   | 0.571 | TM3.2 | 0.05 | 36.525 | PASS |
|    |  |   | 0.95  | TM3.3 | 0.05 | 36.525 | PASS |

| Frequency Stability vs Temperature (Channel Bandwidth:5M    Frequency :737MHz) |                                   |      |                               |       |              |             |        |
|--------------------------------------------------------------------------------|-----------------------------------|------|-------------------------------|-------|--------------|-------------|--------|
| Temperature (℃)                                                                | Power Supplied (V <sub>DC</sub> ) | Port | Frequency Measure Error ( Hz) | E-TM  | Limit ( ppm) | Limit ( Hz) | Result |
| -40                                                                            | -48                               | 1    | 0.167                         | TM2.0 | 0.05         | 36.85       | PASS   |
|                                                                                |                                   |      | 0.752                         | TM3.1 | 0.05         | 36.85       | PASS   |
|                                                                                |                                   |      | 0.030                         | TM3.2 | 0.05         | 36.85       | PASS   |
|                                                                                |                                   |      | 0.378                         | TM3.3 | 0.05         | 36.85       | PASS   |
|                                                                                |                                   | 2    | 1.287                         | TM2.0 | 0.05         | 36.85       | PASS   |
|                                                                                |                                   |      | 4.886                         | TM3.1 | 0.05         | 36.85       | PASS   |
|                                                                                |                                   |      | 0.014                         | TM3.2 | 0.05         | 36.85       | PASS   |
|                                                                                |                                   |      | 0.408                         | TM3.3 | 0.05         | 36.85       | PASS   |
| -30                                                                            |                                   | 1    | 2.546                         | TM2.0 | 0.05         | 36.85       | PASS   |
|                                                                                |                                   |      | 0.327                         | TM3.1 | 0.05         | 36.85       | PASS   |
|                                                                                |                                   |      | 1.027                         | TM3.2 | 0.05         | 36.85       | PASS   |
|                                                                                |                                   |      | 2.107                         | TM3.3 | 0.05         | 36.85       | PASS   |
|                                                                                |                                   | 2    | 3.217                         | TM2.0 | 0.05         | 36.85       | PASS   |
|                                                                                |                                   |      | 2.328                         | TM3.1 | 0.05         | 36.85       | PASS   |
|                                                                                |                                   |      | 2.037                         | TM3.2 | 0.05         | 36.85       | PASS   |
|                                                                                |                                   |      | 0.387                         | TM3.3 | 0.05         | 36.85       | PASS   |
| -20                                                                            |                                   | 1    | 0.050                         | TM2.0 | 0.05         | 36.85       | PASS   |

|     |   |   |  |       |       |       |       |       |      |
|-----|---|---|--|-------|-------|-------|-------|-------|------|
|     |   |   |  |       | 0.047 | TM3.1 | 0.05  | 36.85 | PASS |
|     |   |   |  |       | 0.258 | TM3.2 | 0.05  | 36.85 | PASS |
|     |   |   |  |       | 0.071 | TM3.3 | 0.05  | 36.85 | PASS |
|     |   | 2 |  |       | 0.018 | TM2.0 | 0.05  | 36.85 | PASS |
|     |   |   |  |       | 0.310 | TM3.1 | 0.05  | 36.85 | PASS |
|     |   |   |  |       | 1.050 | TM3.2 | 0.05  | 36.85 | PASS |
|     |   |   |  |       | 1.101 | TM3.3 | 0.05  | 36.85 | PASS |
|     |   |   |  |       |       |       |       |       |      |
|     |   |   |  |       |       |       |       |       |      |
|     |   |   |  |       |       |       |       |       |      |
| -10 |   | 1 |  |       | 0.408 | TM2.0 | 0.05  | 36.85 | PASS |
|     |   |   |  |       | 3.524 | TM3.1 | 0.05  | 36.85 | PASS |
|     |   |   |  |       | 0.857 | TM3.2 | 0.05  | 36.85 | PASS |
|     |   |   |  |       | 0.893 | TM3.3 | 0.05  | 36.85 | PASS |
|     |   | 2 |  |       | 2.171 | TM2.0 | 0.05  | 36.85 | PASS |
|     |   |   |  |       | 3.185 | TM3.1 | 0.05  | 36.85 | PASS |
|     |   |   |  |       | 1.901 | TM3.2 | 0.05  | 36.85 | PASS |
|     |   |   |  |       | 3.479 | TM3.3 | 0.05  | 36.85 | PASS |
| 0   | 1 |   |  | 0.218 | TM2.0 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 0.276 | TM3.1 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 1.277 | TM3.2 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 3.109 | TM3.3 | 0.05  | 36.85 | PASS  |      |
|     | 2 |   |  | 1.977 | TM2.0 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 1.375 | TM3.1 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 0.331 | TM3.2 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 4.052 | TM3.3 | 0.05  | 36.85 | PASS  |      |
| 10  | 1 |   |  | 0.383 | TM2.0 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 0.475 | TM3.1 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 0.385 | TM3.2 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 0.951 | TM3.3 | 0.05  | 36.85 | PASS  |      |
|     | 2 |   |  | 1.573 | TM2.0 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 1.257 | TM3.1 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 0.524 | TM3.2 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 1.746 | TM3.3 | 0.05  | 36.85 | PASS  |      |
| 20  | 1 |   |  | 1.241 | TM2.0 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 1.837 | TM3.1 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 1.751 | TM3.2 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 1.970 | TM3.3 | 0.05  | 36.85 | PASS  |      |
|     | 2 |   |  | 0.843 | TM2.0 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 0.114 | TM3.1 | 0.05  | 36.85 | PASS  |      |
|     |   |   |  | 0.568 | TM3.2 | 0.05  | 36.85 | PASS  |      |

|    |  |   |       |       |      |       |      |
|----|--|---|-------|-------|------|-------|------|
|    |  |   | 0.739 | TM3.3 | 0.05 | 36.85 | PASS |
| 30 |  | 1 | 1.837 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 3.381 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 0.021 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.050 | TM3.3 | 0.05 | 36.85 | PASS |
|    |  | 2 | 0.307 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 0.209 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 3.647 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 1.728 | TM3.3 | 0.05 | 36.85 | PASS |
| 40 |  | 1 | 0.173 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 1.701 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 2.812 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.104 | TM3.3 | 0.05 | 36.85 | PASS |
|    |  | 2 | 0.403 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 1.764 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 2.384 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.374 | TM3.3 | 0.05 | 36.85 | PASS |
| 50 |  | 1 | 0.141 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 4.768 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 0.317 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 1.807 | TM3.3 | 0.05 | 36.85 | PASS |
|    |  | 2 | 0.272 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 2.335 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 1.420 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.137 | TM3.3 | 0.05 | 36.85 | PASS |
| 55 |  | 1 | 3.855 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 1.507 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 2.300 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.728 | TM3.3 | 0.05 | 36.85 | PASS |
|    |  | 2 | 2.504 | TM2.0 | 0.05 | 36.85 | PASS |
|    |  |   | 3.872 | TM3.1 | 0.05 | 36.85 | PASS |
|    |  |   | 2.501 | TM3.2 | 0.05 | 36.85 | PASS |
|    |  |   | 0.980 | TM3.3 | 0.05 | 36.85 | PASS |

**Frequency Stability vs Temperature (Channel Bandwidth:5M Frequency :743.5MHz)**

| Temperature (°C) | Power Supplied (V <sub>DC</sub> ) | Port | Frequency Measure Error (Hz) | E-TM | Limit (ppm) | Limit (Hz) | Result |
|------------------|-----------------------------------|------|------------------------------|------|-------------|------------|--------|
|------------------|-----------------------------------|------|------------------------------|------|-------------|------------|--------|

|     |  |     |   |       |       |      |        |      |
|-----|--|-----|---|-------|-------|------|--------|------|
| -40 |  |     | 1 | 0.261 | TM2.0 | 0.05 | 37.175 | PASS |
|     |  |     |   | 1.317 | TM3.1 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.038 | TM3.2 | 0.05 | 37.175 | PASS |
|     |  |     |   | 2.398 | TM3.3 | 0.05 | 37.175 | PASS |
|     |  |     | 2 | 0.277 | TM2.0 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.817 | TM3.1 | 0.05 | 37.175 | PASS |
|     |  |     |   | 1.011 | TM3.2 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.008 | TM3.3 | 0.05 | 37.175 | PASS |
| -30 |  |     | 1 | 0.501 | TM2.0 | 0.05 | 37.175 | PASS |
|     |  |     |   | 1.226 | TM3.1 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.038 | TM3.2 | 0.05 | 37.175 | PASS |
|     |  |     |   | 1.197 | TM3.3 | 0.05 | 37.175 | PASS |
|     |  |     | 2 | 0.247 | TM2.0 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.388 | TM3.1 | 0.05 | 37.175 | PASS |
|     |  |     |   | 1.537 | TM3.2 | 0.05 | 37.175 | PASS |
|     |  |     |   | 3.385 | TM3.3 | 0.05 | 37.175 | PASS |
| -20 |  |     | 1 | 1.071 | TM2.0 | 0.05 | 37.175 | PASS |
|     |  |     |   | 2.044 | TM3.1 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.238 | TM3.2 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.040 | TM3.3 | 0.05 | 37.175 | PASS |
|     |  |     | 2 | 2.018 | TM2.0 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.511 | TM3.1 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.057 | TM3.2 | 0.05 | 37.175 | PASS |
|     |  |     |   | 1.101 | TM3.3 | 0.05 | 37.175 | PASS |
| -10 |  |     | 1 | 2.418 | TM2.0 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.524 | TM3.1 | 0.05 | 37.175 | PASS |
|     |  |     |   | 4.881 | TM3.2 | 0.05 | 37.175 | PASS |
|     |  |     |   | 2.822 | TM3.3 | 0.05 | 37.175 | PASS |
|     |  |     | 2 | 3.101 | TM2.0 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.287 | TM3.1 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.951 | TM3.2 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.571 | TM3.3 | 0.05 | 37.175 | PASS |
| 0   |  | -48 | 1 | 1.271 | TM2.0 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.205 | TM3.1 | 0.05 | 37.175 | PASS |
|     |  |     |   | 1.372 | TM3.2 | 0.05 | 37.175 | PASS |
|     |  |     |   | 0.007 | TM3.3 | 0.05 | 37.175 | PASS |
|     |  |     | 2 | 1.077 | TM2.0 | 0.05 | 37.175 | PASS |
|     |  |     |   | 4.075 | TM3.1 | 0.05 | 37.175 | PASS |

|    |   |  |       |       |      |        |      |
|----|---|--|-------|-------|------|--------|------|
|    |   |  | 0.382 | TM3.2 | 0.05 | 37.175 | PASS |
|    |   |  | 4.074 | TM3.3 | 0.05 | 37.175 | PASS |
| 10 | 1 |  | 1.373 | TM2.0 | 0.05 | 37.175 | PASS |
|    |   |  | 2.975 | TM3.1 | 0.05 | 37.175 | PASS |
|    |   |  | 1.305 | TM3.2 | 0.05 | 37.175 | PASS |
|    |   |  | 0.951 | TM3.3 | 0.05 | 37.175 | PASS |
|    |   |  | 0.523 | TM2.0 | 0.05 | 37.175 | PASS |
|    | 2 |  | 0.207 | TM3.1 | 0.05 | 37.175 | PASS |
|    |   |  | 0.424 | TM3.2 | 0.05 | 37.175 | PASS |
|    |   |  | 1.706 | TM3.3 | 0.05 | 37.175 | PASS |
| 20 | 1 |  | 0.241 | TM2.0 | 0.05 | 37.175 | PASS |
|    |   |  | 1.807 | TM3.1 | 0.05 | 37.175 | PASS |
|    |   |  | 0.557 | TM3.2 | 0.05 | 37.175 | PASS |
|    |   |  | 1.902 | TM3.3 | 0.05 | 37.175 | PASS |
|    | 2 |  | 2.833 | TM2.0 | 0.05 | 37.175 | PASS |
|    |   |  | 2.104 | TM3.1 | 0.05 | 37.175 | PASS |
|    |   |  | 0.567 | TM3.2 | 0.05 | 37.175 | PASS |
|    |   |  | 0.135 | TM3.3 | 0.05 | 37.175 | PASS |
| 30 | 1 |  | 0.877 | TM2.0 | 0.05 | 37.175 | PASS |
|    |   |  | 0.301 | TM3.1 | 0.05 | 37.175 | PASS |
|    |   |  | 0.012 | TM3.2 | 0.05 | 37.175 | PASS |
|    |   |  | 2.850 | TM3.3 | 0.05 | 37.175 | PASS |
|    | 2 |  | 1.387 | TM2.0 | 0.05 | 37.175 | PASS |
|    |   |  | 0.200 | TM3.1 | 0.05 | 37.175 | PASS |
|    |   |  | 0.707 | TM3.2 | 0.05 | 37.175 | PASS |
|    |   |  | 0.778 | TM3.3 | 0.05 | 37.175 | PASS |
| 40 | 1 |  | 2.177 | TM2.0 | 0.05 | 37.175 | PASS |
|    |   |  | 0.734 | TM3.1 | 0.05 | 37.175 | PASS |
|    |   |  | 0.712 | TM3.2 | 0.05 | 37.175 | PASS |
|    |   |  | 0.185 | TM3.3 | 0.05 | 37.175 | PASS |
|    | 2 |  | 4.409 | TM2.0 | 0.05 | 37.175 | PASS |
|    |   |  | 0.304 | TM3.1 | 0.05 | 37.175 | PASS |
|    |   |  | 0.391 | TM3.2 | 0.05 | 37.175 | PASS |
|    |   |  | 0.704 | TM3.3 | 0.05 | 37.175 | PASS |
| 50 | 1 |  | 0.121 | TM2.0 | 0.05 | 37.175 | PASS |
|    |   |  | 0.728 | TM3.1 | 0.05 | 37.175 | PASS |
|    |   |  | 1.308 | TM3.2 | 0.05 | 37.175 | PASS |
|    |   |  | 0.107 | TM3.3 | 0.05 | 37.175 | PASS |

|    |  |   |       |       |      |        |      |
|----|--|---|-------|-------|------|--------|------|
| 55 |  | 2 | 4.272 | TM2.0 | 0.05 | 37.175 | PASS |
|    |  |   | 2.385 | TM3.1 | 0.05 | 37.175 | PASS |
|    |  |   | 0.437 | TM3.2 | 0.05 | 37.175 | PASS |
|    |  |   | 0.857 | TM3.3 | 0.05 | 37.175 | PASS |
|    |  | 1 | 0.855 | TM2.0 | 0.05 | 37.175 | PASS |
|    |  |   | 0.108 | TM3.1 | 0.05 | 37.175 | PASS |
|    |  |   | 2.301 | TM3.2 | 0.05 | 37.175 | PASS |
|    |  |   | 0.728 | TM3.3 | 0.05 | 37.175 | PASS |
|    |  | 2 | 2.784 | TM2.0 | 0.05 | 37.175 | PASS |
|    |  |   | 0.372 | TM3.1 | 0.05 | 37.175 | PASS |
|    |  |   | 0.921 | TM3.2 | 0.05 | 37.175 | PASS |
|    |  |   | 0.946 | TM3.3 | 0.05 | 37.175 | PASS |

## Frequency Stability Versus Voltage

| Frequency Stability vs Voltage ( Channel Bandwidth:15M    Frequency :735.5MHz ) |                  |       |                               |       |              |             |        |
|---------------------------------------------------------------------------------|------------------|-------|-------------------------------|-------|--------------|-------------|--------|
| Power Supplied (V <sub>DC</sub> )                                               | Temperature (°C) | Port  | Frequency Measure Error ( Hz) | E-TM  | Limit ( ppm) | Limit ( Hz) | Result |
| -40                                                                             | 20               | 1     | 1.503                         | TM2.0 | 0.05         | 36.775      | PASS   |
|                                                                                 |                  |       | 0.821                         | TM3.1 | 0.05         | 36.775      | PASS   |
|                                                                                 |                  |       | 0.080                         | TM3.2 | 0.05         | 36.775      | PASS   |
|                                                                                 |                  |       | 0.107                         | TM3.3 | 0.05         | 36.775      | PASS   |
|                                                                                 |                  | 2     | 1.548                         | TM2.0 | 0.05         | 36.775      | PASS   |
|                                                                                 |                  |       | 1.417                         | TM3.1 | 0.05         | 36.775      | PASS   |
|                                                                                 |                  |       | 0.537                         | TM3.2 | 0.05         | 36.775      | PASS   |
|                                                                                 |                  |       | 0.407                         | TM3.3 | 0.05         | 36.775      | PASS   |
| -44                                                                             |                  | 1     | 0.371                         | TM2.0 | 0.05         | 36.775      | PASS   |
|                                                                                 |                  |       | 0.744                         | TM3.1 | 0.05         | 36.775      | PASS   |
|                                                                                 |                  |       | 1.238                         | TM3.2 | 0.05         | 36.775      | PASS   |
|                                                                                 |                  |       | 3.040                         | TM3.3 | 0.05         | 36.775      | PASS   |
|                                                                                 |                  | 2     | 4.088                         | TM2.0 | 0.05         | 36.775      | PASS   |
|                                                                                 |                  |       | 2.513                         | TM3.1 | 0.05         | 36.775      | PASS   |
|                                                                                 |                  |       | 2.455                         | TM3.2 | 0.05         | 36.775      | PASS   |
|                                                                                 |                  |       | 0.137                         | TM3.3 | 0.05         | 36.775      | PASS   |
| -48                                                                             | 1                | 0.719 | TM2.0                         | 0.05  | 36.775       | PASS        |        |
|                                                                                 |                  | 0.372 | TM3.1                         | 0.05  | 36.775       | PASS        |        |

|     |  |   |       |       |      |        |      |
|-----|--|---|-------|-------|------|--------|------|
|     |  |   | 0.818 | TM3.2 | 0.05 | 36.775 | PASS |
|     |  |   | 0.857 | TM3.3 | 0.05 | 36.775 | PASS |
|     |  | 2 | 0.211 | TM2.0 | 0.05 | 36.775 | PASS |
|     |  |   | 2.207 | TM3.1 | 0.05 | 36.775 | PASS |
|     |  |   | 1.971 | TM3.2 | 0.05 | 36.775 | PASS |
|     |  |   | 2.071 | TM3.3 | 0.05 | 36.775 | PASS |
|     |  | 1 | 0.231 | TM2.0 | 0.05 | 36.775 | PASS |
|     |  |   | 0.705 | TM3.1 | 0.05 | 36.775 | PASS |
|     |  |   | 4.002 | TM3.2 | 0.05 | 36.775 | PASS |
|     |  |   | 2.017 | TM3.3 | 0.05 | 36.775 | PASS |
| -52 |  | 2 | 0.770 | TM2.0 | 0.05 | 36.775 | PASS |
|     |  |   | 0.575 | TM3.1 | 0.05 | 36.775 | PASS |
|     |  |   | 0.382 | TM3.2 | 0.05 | 36.775 | PASS |
|     |  |   | 0.574 | TM3.3 | 0.05 | 36.775 | PASS |
| -57 |  | 1 | 0.573 | TM2.0 | 0.05 | 36.775 | PASS |
|     |  |   | 0.275 | TM3.1 | 0.05 | 36.775 | PASS |
|     |  |   | 0.715 | TM3.2 | 0.05 | 36.775 | PASS |
|     |  |   | 0.231 | TM3.3 | 0.05 | 36.775 | PASS |
|     |  | 2 | 0.523 | TM2.0 | 0.05 | 36.775 | PASS |
|     |  |   | 1.257 | TM3.1 | 0.05 | 36.775 | PASS |
|     |  |   | 0.474 | TM3.2 | 0.05 | 36.775 | PASS |
|     |  |   | 0.706 | TM3.3 | 0.05 | 36.775 | PASS |

| Frequency Stability vs Voltage (Channel Bandwidth:15M Frequency :737MHz) |                  |      |                              |       |             |            |        |
|--------------------------------------------------------------------------|------------------|------|------------------------------|-------|-------------|------------|--------|
| Power Supplied (V <sub>DC</sub> )                                        | Temperature (°C) | Port | Frequency Measure Error (Hz) | E-TM  | Limit (ppm) | Limit (Hz) | Result |
| -40                                                                      | 20               | 1    | 2.513                        | TM2.0 | 0.05        | 36.85      | PASS   |
|                                                                          |                  |      | 1.838                        | TM3.1 | 0.05        | 36.85      | PASS   |
|                                                                          |                  |      | 1.109                        | TM3.2 | 0.05        | 36.85      | PASS   |
|                                                                          |                  |      | 0.108                        | TM3.3 | 0.05        | 36.85      | PASS   |
|                                                                          |                  | 2    | 0.530                        | TM2.0 | 0.05        | 36.85      | PASS   |
|                                                                          |                  |      | 0.017                        | TM3.1 | 0.05        | 36.85      | PASS   |
|                                                                          |                  |      | 0.536                        | TM3.2 | 0.05        | 36.85      | PASS   |
|                                                                          |                  |      | 0.387                        | TM3.3 | 0.05        | 36.85      | PASS   |
| -44                                                                      |                  | 1    | 1.301                        | TM2.0 | 0.05        | 36.85      | PASS   |
|                                                                          |                  |      | 2.704                        | TM3.1 | 0.05        | 36.85      | PASS   |
|                                                                          |                  |      | 0.233                        | TM3.2 | 0.05        | 36.85      | PASS   |

|     |  |   |       |       |      |       |      |
|-----|--|---|-------|-------|------|-------|------|
|     |  | 2 | 0.040 | TM3.3 | 0.05 | 36.85 | PASS |
|     |  |   | 0.088 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 1.512 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 1.750 | TM3.2 | 0.05 | 36.85 | PASS |
| -48 |  | 1 | 0.127 | TM3.3 | 0.05 | 36.85 | PASS |
|     |  |   | 1.739 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 1.302 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 0.858 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  | 2 | 0.117 | TM3.3 | 0.05 | 36.85 | PASS |
|     |  |   | 1.221 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 2.007 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 4.378 | TM3.2 | 0.05 | 36.85 | PASS |
| -52 |  | 1 | 1.072 | TM3.3 | 0.05 | 36.85 | PASS |
|     |  |   | 1.231 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 1.706 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 2.018 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  | 2 | 1.918 | TM3.3 | 0.05 | 36.85 | PASS |
|     |  |   | 2.706 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 1.507 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 0.307 | TM3.2 | 0.05 | 36.85 | PASS |
| -57 |  | 1 | 0.547 | TM3.3 | 0.05 | 36.85 | PASS |
|     |  |   | 1.503 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 1.205 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 1.705 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  | 2 | 1.301 | TM3.3 | 0.05 | 36.85 | PASS |
|     |  |   | 4.501 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 3.890 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 4.060 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  |   | 0.041 | TM3.3 | 0.05 | 36.85 | PASS |

| Frequency Stability vs Voltage ( Channel Bandwidth:15M Frequency :738.5MHz) |                  |      |                               |       |              |             |        |
|-----------------------------------------------------------------------------|------------------|------|-------------------------------|-------|--------------|-------------|--------|
| Power Supplied (V <sub>DC</sub> )                                           | Temperature (°C) | Port | Frequency Measure Error ( Hz) | E-TM  | Limit ( ppm) | Limit ( Hz) | Result |
| -40                                                                         | 20               | 1    | 0.070                         | TM2.0 | 0.05         | 36.925      | PASS   |
|                                                                             |                  |      | 0.357                         | TM3.1 | 0.05         | 36.925      | PASS   |
|                                                                             |                  |      | 0.957                         | TM3.2 | 0.05         | 36.925      | PASS   |
|                                                                             |                  |      | 0.803                         | TM3.3 | 0.05         | 36.925      | PASS   |

|     |  |   |       |       |      |        |      |
|-----|--|---|-------|-------|------|--------|------|
|     |  | 2 | 0.527 | TM2.0 | 0.05 | 36.925 | PASS |
|     |  |   | 0.218 | TM3.1 | 0.05 | 36.925 | PASS |
|     |  |   | 0.337 | TM3.2 | 0.05 | 36.925 | PASS |
|     |  |   | 0.317 | TM3.3 | 0.05 | 36.925 | PASS |
| -44 |  | 1 | 1.302 | TM2.0 | 0.05 | 36.925 | PASS |
|     |  |   | 2.705 | TM3.1 | 0.05 | 36.925 | PASS |
|     |  |   | 0.203 | TM3.2 | 0.05 | 36.925 | PASS |
|     |  |   | 3.047 | TM3.3 | 0.05 | 36.925 | PASS |
|     |  | 2 | 1.007 | TM2.0 | 0.05 | 36.925 | PASS |
|     |  |   | 1.501 | TM3.1 | 0.05 | 36.925 | PASS |
|     |  |   | 0.800 | TM3.2 | 0.05 | 36.925 | PASS |
|     |  |   | 1.117 | TM3.3 | 0.05 | 36.925 | PASS |
| -48 |  | 1 | 0.940 | TM2.0 | 0.05 | 36.925 | PASS |
|     |  |   | 0.367 | TM3.1 | 0.05 | 36.925 | PASS |
|     |  |   | 0.815 | TM3.2 | 0.05 | 36.925 | PASS |
|     |  |   | 0.137 | TM3.3 | 0.05 | 36.925 | PASS |
|     |  | 2 | 0.281 | TM2.0 | 0.05 | 36.925 | PASS |
|     |  |   | 2.017 | TM3.1 | 0.05 | 36.925 | PASS |
|     |  |   | 0.708 | TM3.2 | 0.05 | 36.925 | PASS |
|     |  |   | 0.002 | TM3.3 | 0.05 | 36.925 | PASS |
| -52 |  | 1 | 0.283 | TM2.0 | 0.05 | 36.925 | PASS |
|     |  |   | 0.756 | TM3.1 | 0.05 | 36.925 | PASS |
|     |  |   | 0.019 | TM3.2 | 0.05 | 36.925 | PASS |
|     |  |   | 1.928 | TM3.3 | 0.05 | 36.925 | PASS |
|     |  | 2 | 2.746 | TM2.0 | 0.05 | 36.925 | PASS |
|     |  |   | 1.557 | TM3.1 | 0.05 | 36.925 | PASS |
|     |  |   | 0.387 | TM3.2 | 0.05 | 36.925 | PASS |
|     |  |   | 0.597 | TM3.3 | 0.05 | 36.925 | PASS |
| -57 |  | 1 | 1.503 | TM2.0 | 0.05 | 36.925 | PASS |
|     |  |   | 0.205 | TM3.1 | 0.05 | 36.925 | PASS |
|     |  |   | 3.705 | TM3.2 | 0.05 | 36.925 | PASS |
|     |  |   | 1.303 | TM3.3 | 0.05 | 36.925 | PASS |
|     |  | 2 | 0.521 | TM2.0 | 0.05 | 36.925 | PASS |
|     |  |   | 1.810 | TM3.1 | 0.05 | 36.925 | PASS |
|     |  |   | 0.080 | TM3.2 | 0.05 | 36.925 | PASS |
|     |  |   | 1.041 | TM3.3 | 0.05 | 36.925 | PASS |

| Frequency Stability vs Voltage ( Channel Bandwidth:10M    Frequency :733MHz) |                  |      |                               |       |              |             |        |
|------------------------------------------------------------------------------|------------------|------|-------------------------------|-------|--------------|-------------|--------|
| Power Supplied (V <sub>DC</sub> )                                            | Temperature (°C) | Port | Frequency Measure Error ( Hz) | E-TM  | Limit ( ppm) | Limit ( Hz) | Result |
| -40                                                                          | 20               | 1    | 1.173                         | TM2.0 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 2.006                         | TM3.1 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.912                         | TM3.2 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.782                         | TM3.3 | 0.05         | 36.65       | PASS   |
|                                                                              |                  | 2    | 0.534                         | TM2.0 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 1.207                         | TM3.1 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.383                         | TM3.2 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.157                         | TM3.3 | 0.05         | 36.65       | PASS   |
| -44                                                                          |                  | 1    | 0.109                         | TM2.0 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.205                         | TM3.1 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.203                         | TM3.2 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.048                         | TM3.3 | 0.05         | 36.65       | PASS   |
|                                                                              |                  | 2    | 0.107                         | TM2.0 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.521                         | TM3.1 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.807                         | TM3.2 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.197                         | TM3.3 | 0.05         | 36.65       | PASS   |
| -48                                                                          |                  | 1    | 1.810                         | TM2.0 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 1.763                         | TM3.1 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 2.825                         | TM3.2 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 3.736                         | TM3.3 | 0.05         | 36.65       | PASS   |
|                                                                              |                  | 2    | 0.211                         | TM2.0 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.819                         | TM3.1 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.007                         | TM3.2 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.102                         | TM3.3 | 0.05         | 36.65       | PASS   |
| -52                                                                          |                  | 1    | 2.287                         | TM2.0 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 3.658                         | TM3.1 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.119                         | TM3.2 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 1.930                         | TM3.3 | 0.05         | 36.65       | PASS   |
|                                                                              |                  | 2    | 0.766                         | TM2.0 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 1.571                         | TM3.1 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 0.307                         | TM3.2 | 0.05         | 36.65       | PASS   |
|                                                                              |                  |      | 1.507                         | TM3.3 | 0.05         | 36.65       | PASS   |
| -57                                                                          |                  | 1    | 1.003                         | TM2.0 | 0.05         | 36.65       | PASS   |

|  |  |   |       |       |      |       |      |
|--|--|---|-------|-------|------|-------|------|
|  |  |   | 0.005 | TM3.1 | 0.05 | 36.65 | PASS |
|  |  |   | 4.601 | TM3.2 | 0.05 | 36.65 | PASS |
|  |  |   | 0.317 | TM3.3 | 0.05 | 36.65 | PASS |
|  |  | 2 | 0.384 | TM2.0 | 0.05 | 36.65 | PASS |
|  |  |   | 0.820 | TM3.1 | 0.05 | 36.65 | PASS |
|  |  |   | 0.180 | TM3.2 | 0.05 | 36.65 | PASS |
|  |  |   | 0.007 | TM3.3 | 0.05 | 36.65 | PASS |
|  |  |   |       |       |      |       |      |

| Frequency Stability vs Voltage （Channel Bandwidth:10M    Frequency :737MHz） |                     |       |                                     |       |                 |                |        |
|-----------------------------------------------------------------------------|---------------------|-------|-------------------------------------|-------|-----------------|----------------|--------|
| Power Supplied<br>(V <sub>DC</sub> )                                        | Temperat<br>ure (℃) | Port  | Frequency<br>Measure Error<br>( Hz) | E-TM  | Limit<br>( ppm) | Limit<br>( Hz) | Result |
| -40                                                                         | 20                  | 1     | 0.181                               | TM2.0 | 0.05            | 36.85          | PASS   |
|                                                                             |                     |       | 0.127                               | TM3.1 | 0.05            | 36.85          | PASS   |
|                                                                             |                     |       | 0.395                               | TM3.2 | 0.05            | 36.85          | PASS   |
|                                                                             |                     |       | 0.054                               | TM3.3 | 0.05            | 36.85          | PASS   |
|                                                                             |                     | 2     | 1.381                               | TM2.0 | 0.05            | 36.85          | PASS   |
|                                                                             |                     |       | 1. 807                              | TM3.1 | 0.05            | 36.85          | PASS   |
|                                                                             |                     |       | 0.307                               | TM3.2 | 0.05            | 36.85          | PASS   |
|                                                                             |                     |       | 1.107                               | TM3.3 | 0.05            | 36.85          | PASS   |
| -44                                                                         |                     | 1     | 3.201                               | TM2.0 | 0.05            | 36.85          | PASS   |
|                                                                             |                     |       | 2.216                               | TM3.1 | 0.05            | 36.85          | PASS   |
|                                                                             |                     |       | 0.803                               | TM3.2 | 0.05            | 36.85          | PASS   |
|                                                                             |                     |       | 0.746                               | TM3.3 | 0.05            | 36.85          | PASS   |
|                                                                             |                     | 2     | 1.207                               | TM2.0 | 0.05            | 36.85          | PASS   |
|                                                                             |                     |       | 1.631                               | TM3.1 | 0.05            | 36.85          | PASS   |
|                                                                             |                     |       | 1.752                               | TM3.2 | 0.05            | 36.85          | PASS   |
|                                                                             |                     |       | 1.107                               | TM3.3 | 0.05            | 36.85          | PASS   |
| -48                                                                         | 1                   | 1.008 | TM2.0                               | 0.05  | 36.85           | PASS           |        |
|                                                                             |                     | 1.004 | TM3.1                               | 0.05  | 36.85           | PASS           |        |
|                                                                             |                     | 3.817 | TM3.2                               | 0.05  | 36.85           | PASS           |        |
|                                                                             |                     | 3.136 | TM3.3                               | 0.05  | 36.85           | PASS           |        |
|                                                                             | 2                   | 0.237 | TM2.0                               | 0.05  | 36.85           | PASS           |        |
|                                                                             |                     | 0.816 | TM3.1                               | 0.05  | 36.85           | PASS           |        |
|                                                                             |                     | 0.107 | TM3.2                               | 0.05  | 36.85           | PASS           |        |
|                                                                             |                     | 0.252 | TM3.3                               | 0.05  | 36.85           | PASS           |        |
| -52                                                                         | 1                   | 1.208 | TM2.0                               | 0.05  | 36.85           | PASS           |        |
|                                                                             |                     | 2.374 | TM3.1                               | 0.05  | 36.85           | PASS           |        |

|     |  |   |       |       |      |       |      |
|-----|--|---|-------|-------|------|-------|------|
| -57 |  |   | 1.130 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  |   | 1.909 | TM3.3 | 0.05 | 36.85 | PASS |
|     |  | 2 | 1.760 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 0.504 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 0.358 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  |   | 0.567 | TM3.3 | 0.05 | 36.85 | PASS |
|     |  |   |       |       |      |       |      |
|     |  | 1 | 0.037 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 0.087 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 1.638 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  |   | 2.327 | TM3.3 | 0.05 | 36.85 | PASS |
|     |  | 2 | 1.337 | TM2.0 | 0.05 | 36.85 | PASS |
|     |  |   | 4.800 | TM3.1 | 0.05 | 36.85 | PASS |
|     |  |   | 0.371 | TM3.2 | 0.05 | 36.85 | PASS |
|     |  |   | 0.971 | TM3.3 | 0.05 | 36.85 | PASS |

| Frequency Stability vs Voltage （Channel Bandwidth:10M    Frequency :741MHz） |                  |       |                                  |       |                 |                |        |
|-----------------------------------------------------------------------------|------------------|-------|----------------------------------|-------|-----------------|----------------|--------|
| Power Supplied<br>(V <sub>DC</sub> )                                        | Temperature (°C) | Port  | Frequency Measure Error<br>( Hz) | E-TM  | Limit<br>( ppm) | Limit<br>( Hz) | Result |
| -40                                                                         | 20               | 1     | 1.954                            | TM2.0 | 0.05            | 37.05          | PASS   |
|                                                                             |                  |       | 1.167                            | TM3.1 | 0.05            | 37.05          | PASS   |
|                                                                             |                  |       | 1.752                            | TM3.2 | 0.05            | 37.05          | PASS   |
|                                                                             |                  |       | 1.001                            | TM3.3 | 0.05            | 37.05          | PASS   |
|                                                                             |                  | 2     | 0.367                            | TM2.0 | 0.05            | 37.05          | PASS   |
|                                                                             |                  |       | 1. 827                           | TM3.1 | 0.05            | 37.05          | PASS   |
|                                                                             |                  |       | 0.337                            | TM3.2 | 0.05            | 37.05          | PASS   |
|                                                                             |                  |       | 0.197                            | TM3.3 | 0.05            | 37.05          | PASS   |
| -44                                                                         |                  | 1     | 4.221                            | TM2.0 | 0.05            | 37.05          | PASS   |
|                                                                             |                  |       | 0.266                            | TM3.1 | 0.05            | 37.05          | PASS   |
|                                                                             |                  |       | 1.873                            | TM3.2 | 0.05            | 37.05          | PASS   |
|                                                                             |                  |       | 2.806                            | TM3.3 | 0.05            | 37.05          | PASS   |
|                                                                             |                  | 2     | 0.037                            | TM2.0 | 0.05            | 37.05          | PASS   |
|                                                                             |                  |       | 0.941                            | TM3.1 | 0.05            | 37.05          | PASS   |
|                                                                             |                  |       | 0.793                            | TM3.2 | 0.05            | 37.05          | PASS   |
|                                                                             |                  |       | 0.172                            | TM3.3 | 0.05            | 37.05          | PASS   |
| -48                                                                         | 1                | 2.782 | TM2.0                            | 0.05  | 37.05           | PASS           |        |
|                                                                             |                  | 0.075 | TM3.1                            | 0.05  | 37.05           | PASS           |        |
|                                                                             |                  | 0.834 | TM3.2                            | 0.05  | 37.05           | PASS           |        |

|     |  |   |       |       |      |       |      |
|-----|--|---|-------|-------|------|-------|------|
|     |  |   | 0.216 | TM3.3 | 0.05 | 37.05 | PASS |
|     |  | 2 | 2.285 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 2.813 | TM3.1 | 0.05 | 37.05 | PASS |
|     |  |   | 2.137 | TM3.2 | 0.05 | 37.05 | PASS |
|     |  |   | 0.272 | TM3.3 | 0.05 | 37.05 | PASS |
| -52 |  | 1 | 0.358 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 0.044 | TM3.1 | 0.05 | 37.05 | PASS |
|     |  |   | 0.106 | TM3.2 | 0.05 | 37.05 | PASS |
|     |  |   | 0.837 | TM3.3 | 0.05 | 37.05 | PASS |
|     |  | 2 | 0.745 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 1.573 | TM3.1 | 0.05 | 37.05 | PASS |
|     |  |   | 4.337 | TM3.2 | 0.05 | 37.05 | PASS |
|     |  |   | 0.517 | TM3.3 | 0.05 | 37.05 | PASS |
| -57 |  | 1 | 2.157 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 2.364 | TM3.1 | 0.05 | 37.05 | PASS |
|     |  |   | 1.637 | TM3.2 | 0.05 | 37.05 | PASS |
|     |  |   | 0.394 | TM3.3 | 0.05 | 37.05 | PASS |
|     |  | 2 | 0.752 | TM2.0 | 0.05 | 37.05 | PASS |
|     |  |   | 0.657 | TM3.1 | 0.05 | 37.05 | PASS |
|     |  |   | 0.972 | TM3.2 | 0.05 | 37.05 | PASS |
|     |  |   | 0.023 | TM3.3 | 0.05 | 37.05 | PASS |

| Frequency Stability vs Voltage (Channel Bandwidth:5M Frequency :730.5MHz) |                  |      |                              |       |             |            |        |
|---------------------------------------------------------------------------|------------------|------|------------------------------|-------|-------------|------------|--------|
| Power Supplied (V <sub>DC</sub> )                                         | Temperature (°C) | Port | Frequency Measure Error (Hz) | E-TM  | Limit (ppm) | Limit (Hz) | Result |
| -40                                                                       | 20               | 1    | 1.958                        | TM2.0 | 0.05        | 36.525     | PASS   |
|                                                                           |                  |      | 0.254                        | TM3.1 | 0.05        | 36.525     | PASS   |
|                                                                           |                  |      | 0.381                        | TM3.2 | 0.05        | 36.525     | PASS   |
|                                                                           |                  |      | 1.008                        | TM3.3 | 0.05        | 36.525     | PASS   |
|                                                                           |                  | 2    | 2.537                        | TM2.0 | 0.05        | 36.525     | PASS   |
|                                                                           |                  |      | 1.672                        | TM3.1 | 0.05        | 36.525     | PASS   |
|                                                                           |                  |      | 1.308                        | TM3.2 | 0.05        | 36.525     | PASS   |
|                                                                           |                  |      | 0.837                        | TM3.3 | 0.05        | 36.525     | PASS   |
| -44                                                                       |                  | 1    | 0.206                        | TM2.0 | 0.05        | 36.525     | PASS   |
|                                                                           |                  |      | 4.237                        | TM3.1 | 0.05        | 36.525     | PASS   |
|                                                                           |                  |      | 0.801                        | TM3.2 | 0.05        | 36.525     | PASS   |
|                                                                           |                  |      | 2.765                        | TM3.3 | 0.05        | 36.525     | PASS   |

|     |  |   |       |       |      |        |      |
|-----|--|---|-------|-------|------|--------|------|
|     |  | 2 | 1.073 | TM2.0 | 0.05 | 36.525 | PASS |
|     |  |   | 2.908 | TM3.1 | 0.05 | 36.525 | PASS |
|     |  |   | 0.672 | TM3.2 | 0.05 | 36.525 | PASS |
|     |  |   | 0.102 | TM3.3 | 0.05 | 36.525 | PASS |
| -48 |  | 1 | 2.704 | TM2.0 | 0.05 | 36.525 | PASS |
|     |  |   | 4.010 | TM3.1 | 0.05 | 36.525 | PASS |
|     |  |   | 0.760 | TM3.2 | 0.05 | 36.525 | PASS |
|     |  |   | 0.521 | TM3.3 | 0.05 | 36.525 | PASS |
|     |  | 2 | 0.524 | TM2.0 | 0.05 | 36.525 | PASS |
|     |  |   | 0.193 | TM3.1 | 0.05 | 36.525 | PASS |
|     |  |   | 2.157 | TM3.2 | 0.05 | 36.525 | PASS |
|     |  |   | 0.254 | TM3.3 | 0.05 | 36.525 | PASS |
| -52 |  | 1 | 0.157 | TM2.0 | 0.05 | 36.525 | PASS |
|     |  |   | 2.657 | TM3.1 | 0.05 | 36.525 | PASS |
|     |  |   | 2.347 | TM3.2 | 0.05 | 36.525 | PASS |
|     |  |   | 0.094 | TM3.3 | 0.05 | 36.525 | PASS |
|     |  | 2 | 3.681 | TM2.0 | 0.05 | 36.525 | PASS |
|     |  |   | 1.507 | TM3.1 | 0.05 | 36.525 | PASS |
|     |  |   | 0.304 | TM3.2 | 0.05 | 36.525 | PASS |
|     |  |   | 0.246 | TM3.3 | 0.05 | 36.525 | PASS |
| -57 |  | 1 | 0.137 | TM2.0 | 0.05 | 36.525 | PASS |
|     |  |   | 0.383 | TM3.1 | 0.05 | 36.525 | PASS |
|     |  |   | 1.267 | TM3.2 | 0.05 | 36.525 | PASS |
|     |  |   | 0.301 | TM3.3 | 0.05 | 36.525 | PASS |
|     |  | 2 | 1.051 | TM2.0 | 0.05 | 36.525 | PASS |
|     |  |   | 0.637 | TM3.1 | 0.05 | 36.525 | PASS |
|     |  |   | 1.902 | TM3.2 | 0.05 | 36.525 | PASS |
|     |  |   | 1.127 | TM3.3 | 0.05 | 36.525 | PASS |

| Frequency Stability vs Voltage (Channel Bandwidth:5M Frequency :737MHz) |                  |      |                              |       |             |            |        |
|-------------------------------------------------------------------------|------------------|------|------------------------------|-------|-------------|------------|--------|
| Power Supplied (V <sub>DC</sub> )                                       | Temperature (°C) | Port | Frequency Measure Error (Hz) | E-TM  | Limit (ppm) | Limit (Hz) | Result |
| -40                                                                     | 20               | 1    | 1.901                        | TM2.0 | 0.05        | 36.85      | PASS   |
|                                                                         |                  |      | 2.208                        | TM3.1 | 0.05        | 36.85      | PASS   |
|                                                                         |                  |      | 2.654                        | TM3.2 | 0.05        | 36.85      | PASS   |
|                                                                         |                  |      | 1.375                        | TM3.3 | 0.05        | 36.85      | PASS   |
|                                                                         |                  | 2    | 0.730                        | TM2.0 | 0.05        | 36.85      | PASS   |

|     |   |  |       |       |      |       |      |
|-----|---|--|-------|-------|------|-------|------|
|     |   |  | 0.601 | TM3.1 | 0.05 | 36.85 | PASS |
|     |   |  | 1.378 | TM3.2 | 0.05 | 36.85 | PASS |
|     |   |  | 0.007 | TM3.3 | 0.05 | 36.85 | PASS |
| -44 | 1 |  | 2.216 | TM2.0 | 0.05 | 36.85 | PASS |
|     |   |  | 1.276 | TM3.1 | 0.05 | 36.85 | PASS |
|     |   |  | 4.735 | TM3.2 | 0.05 | 36.85 | PASS |
|     |   |  | 0.707 | TM3.3 | 0.05 | 36.85 | PASS |
|     | 2 |  | 0.081 | TM2.0 | 0.05 | 36.85 | PASS |
|     |   |  | 1.257 | TM3.1 | 0.05 | 36.85 | PASS |
|     |   |  | 1.601 | TM3.2 | 0.05 | 36.85 | PASS |
|     |   |  | 2.131 | TM3.3 | 0.05 | 36.85 | PASS |
| -48 | 1 |  | 0.700 | TM2.0 | 0.05 | 36.85 | PASS |
|     |   |  | 3.810 | TM3.1 | 0.05 | 36.85 | PASS |
|     |   |  | 1.720 | TM3.2 | 0.05 | 36.85 | PASS |
|     |   |  | 2.537 | TM3.3 | 0.05 | 36.85 | PASS |
|     | 2 |  | 1.508 | TM2.0 | 0.05 | 36.85 | PASS |
|     |   |  | 1.137 | TM3.1 | 0.05 | 36.85 | PASS |
|     |   |  | 2.104 | TM3.2 | 0.05 | 36.85 | PASS |
|     |   |  | 0.237 | TM3.3 | 0.05 | 36.85 | PASS |
| -52 | 1 |  | 2.107 | TM2.0 | 0.05 | 36.85 | PASS |
|     |   |  | 2.327 | TM3.1 | 0.05 | 36.85 | PASS |
|     |   |  | 2.300 | TM3.2 | 0.05 | 36.85 | PASS |
|     |   |  | 1.007 | TM3.3 | 0.05 | 36.85 | PASS |
|     | 2 |  | 0.675 | TM2.0 | 0.05 | 36.85 | PASS |
|     |   |  | 1.681 | TM3.1 | 0.05 | 36.85 | PASS |
|     |   |  | 1.372 | TM3.2 | 0.05 | 36.85 | PASS |
|     |   |  | 1.237 | TM3.3 | 0.05 | 36.85 | PASS |
| -57 | 1 |  | 1.765 | TM2.0 | 0.05 | 36.85 | PASS |
|     |   |  | 0.376 | TM3.1 | 0.05 | 36.85 | PASS |
|     |   |  | 0.215 | TM3.2 | 0.05 | 36.85 | PASS |
|     |   |  | 0.375 | TM3.3 | 0.05 | 36.85 | PASS |
|     | 2 |  | 0.054 | TM2.0 | 0.05 | 36.85 | PASS |
|     |   |  | 0.875 | TM3.1 | 0.05 | 36.85 | PASS |
|     |   |  | 0.937 | TM3.2 | 0.05 | 36.85 | PASS |
|     |   |  | 1.108 | TM3.3 | 0.05 | 36.85 | PASS |

| Frequency Stability vs Voltage ( Channel Bandwidth:5M    Frequency :743.5MHz) |                   |       |                               |       |              |             |        |
|-------------------------------------------------------------------------------|-------------------|-------|-------------------------------|-------|--------------|-------------|--------|
| Power Supplied (V <sub>DC</sub> )                                             | Temperat ure (°C) | Port  | Frequency Measure Error ( Hz) | E-TM  | Limit ( ppm) | Limit ( Hz) | Result |
| -40                                                                           | 20                | 1     | 0.023                         | TM2.0 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.378                         | TM3.1 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.197                         | TM3.2 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.308                         | TM3.3 | 0.05         | 37.175      | PASS   |
|                                                                               |                   | 2     | 2.085                         | TM2.0 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 2.357                         | TM3.1 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 3.057                         | TM3.2 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.967                         | TM3.3 | 0.05         | 37.175      | PASS   |
| -44                                                                           |                   | 1     | 0.967                         | TM2.0 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.527                         | TM3.1 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.737                         | TM3.2 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.721                         | TM3.3 | 0.05         | 37.175      | PASS   |
|                                                                               |                   | 2     | 2.097                         | TM2.0 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 1.375                         | TM3.1 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 1.952                         | TM3.2 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 2.864                         | TM3.3 | 0.05         | 37.175      | PASS   |
| -48                                                                           |                   | 1     | 2.728                         | TM2.0 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.873                         | TM3.1 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.737                         | TM3.2 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.598                         | TM3.3 | 0.05         | 37.175      | PASS   |
|                                                                               |                   | 2     | 1.738                         | TM2.0 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 1.954                         | TM3.1 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.138                         | TM3.2 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.682                         | TM3.3 | 0.05         | 37.175      | PASS   |
| -52                                                                           |                   | 1     | 0.318                         | TM2.0 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.304                         | TM3.1 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.307                         | TM3.2 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 0.507                         | TM3.3 | 0.05         | 37.175      | PASS   |
|                                                                               |                   | 2     | 1.385                         | TM2.0 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 1.647                         | TM3.1 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 1.952                         | TM3.2 | 0.05         | 37.175      | PASS   |
|                                                                               |                   |       | 1.687                         | TM3.3 | 0.05         | 37.175      | PASS   |
| -57                                                                           | 1                 | 0.875 | TM2.0                         | 0.05  | 37.175       | PASS        |        |
|                                                                               |                   | 0.694 | TM3.1                         | 0.05  | 37.175       | PASS        |        |

|  |  |   |       |       |      |        |      |
|--|--|---|-------|-------|------|--------|------|
|  |  |   | 1.753 | TM3.2 | 0.05 | 37.175 | PASS |
|  |  |   | 1.982 | TM3.3 | 0.05 | 37.175 | PASS |
|  |  | 2 | 1.385 | TM2.0 | 0.05 | 37.175 | PASS |
|  |  |   | 0.056 | TM3.1 | 0.05 | 37.175 | PASS |
|  |  |   | 2.350 | TM3.2 | 0.05 | 37.175 | PASS |
|  |  |   | 0.008 | TM3.3 | 0.05 | 37.175 | PASS |