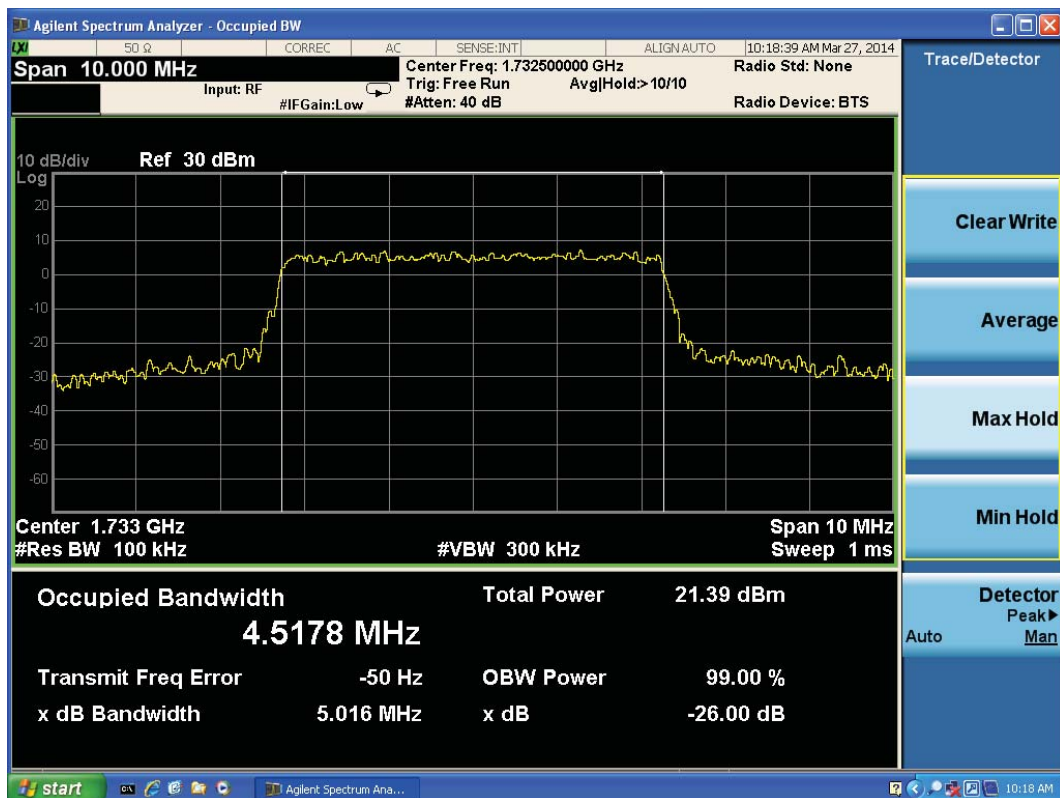


# TA Technology (Shanghai) Co., Ltd.

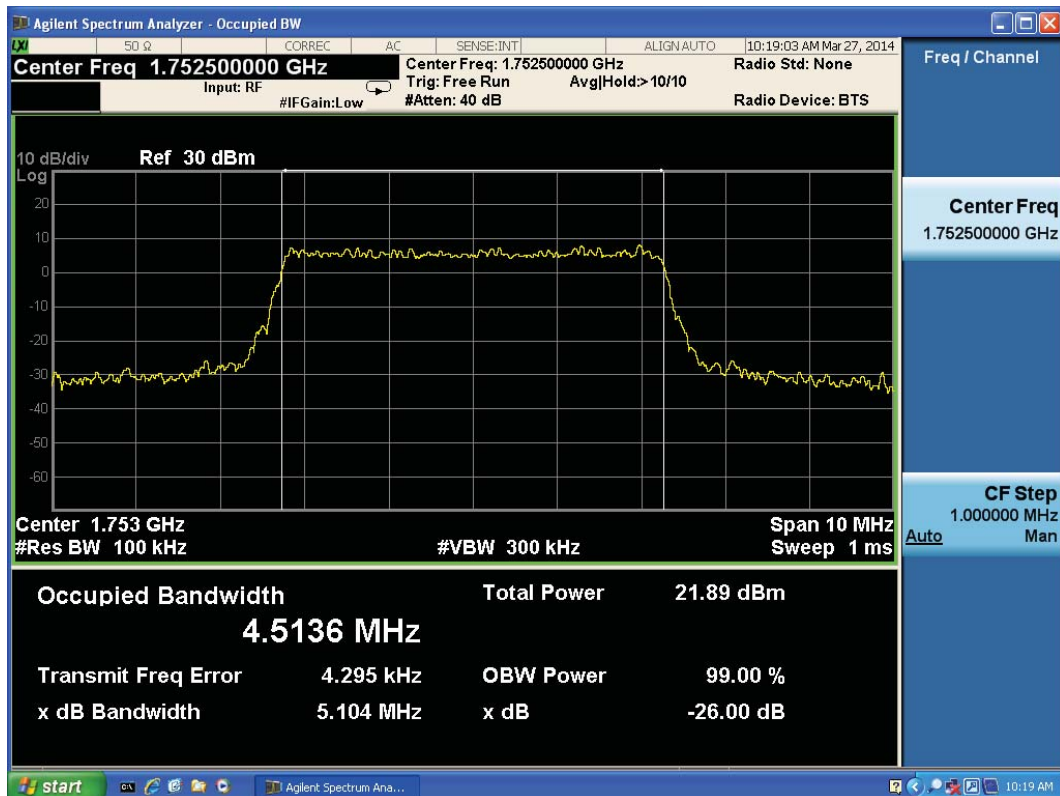
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LTE Band 4 16QAM Bandwidth = 5MHz CH20175 Occupied Bandwidth



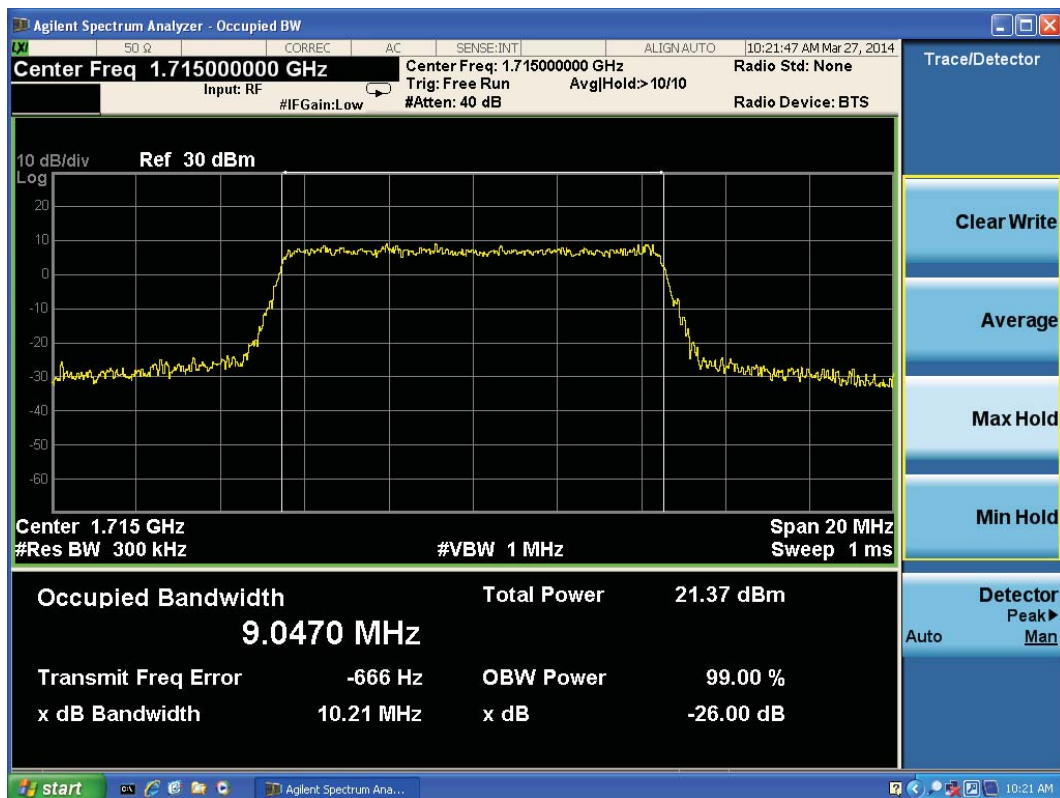
LTE Band 4 16QAM Bandwidth = 5MHz CH20375 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

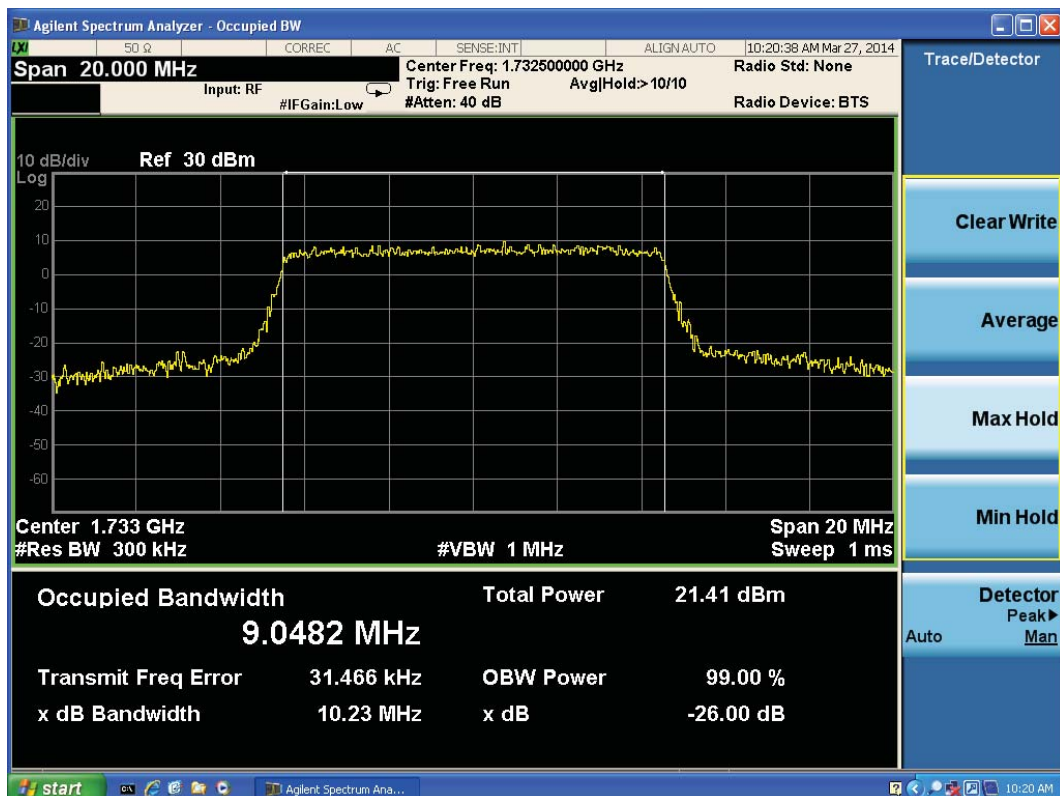
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LTE Band 4 16QAM Bandwidth = 10MHz CH20000 Occupied Bandwidth



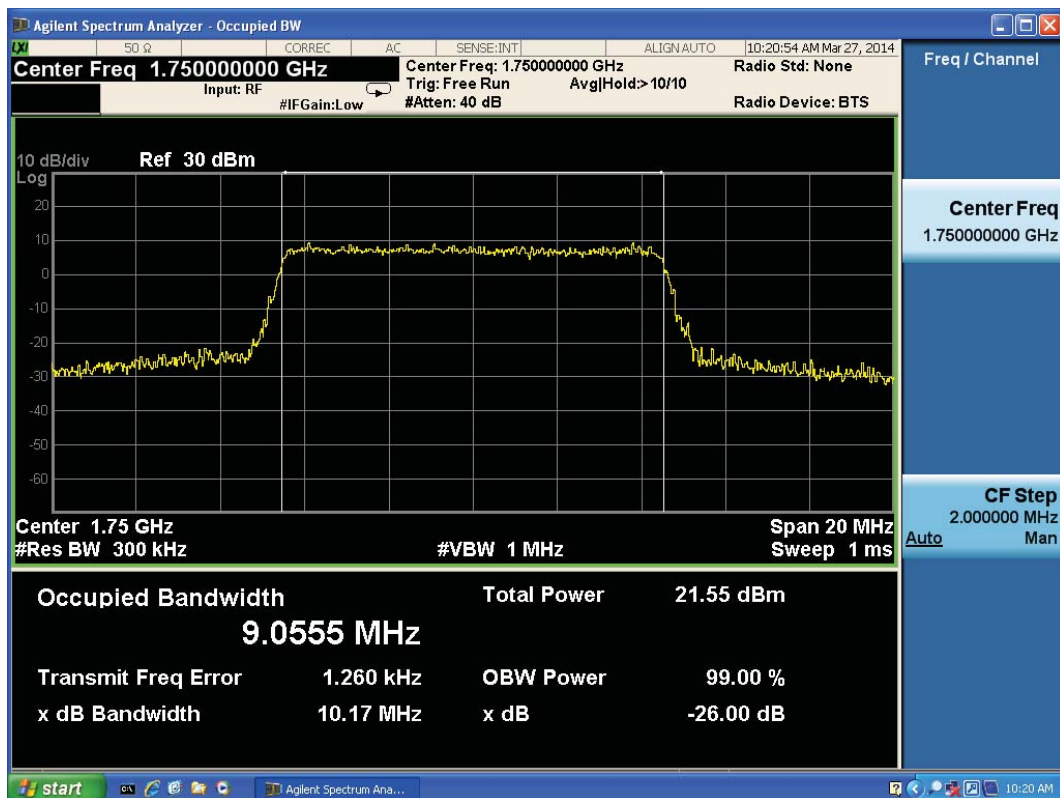
LTE Band 4 16QAM Bandwidth = 10MHz CH20175 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

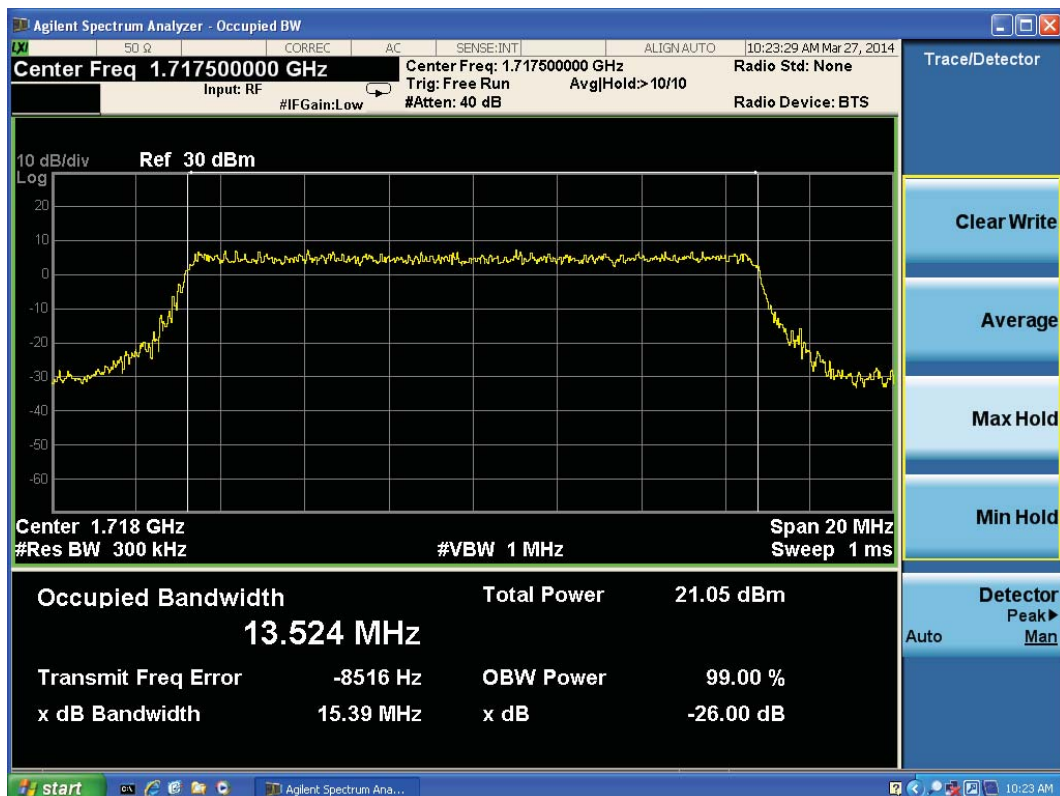
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LTE Band 4 16QAM Bandwidth = 10MHz CH20350 Occupied Bandwidth



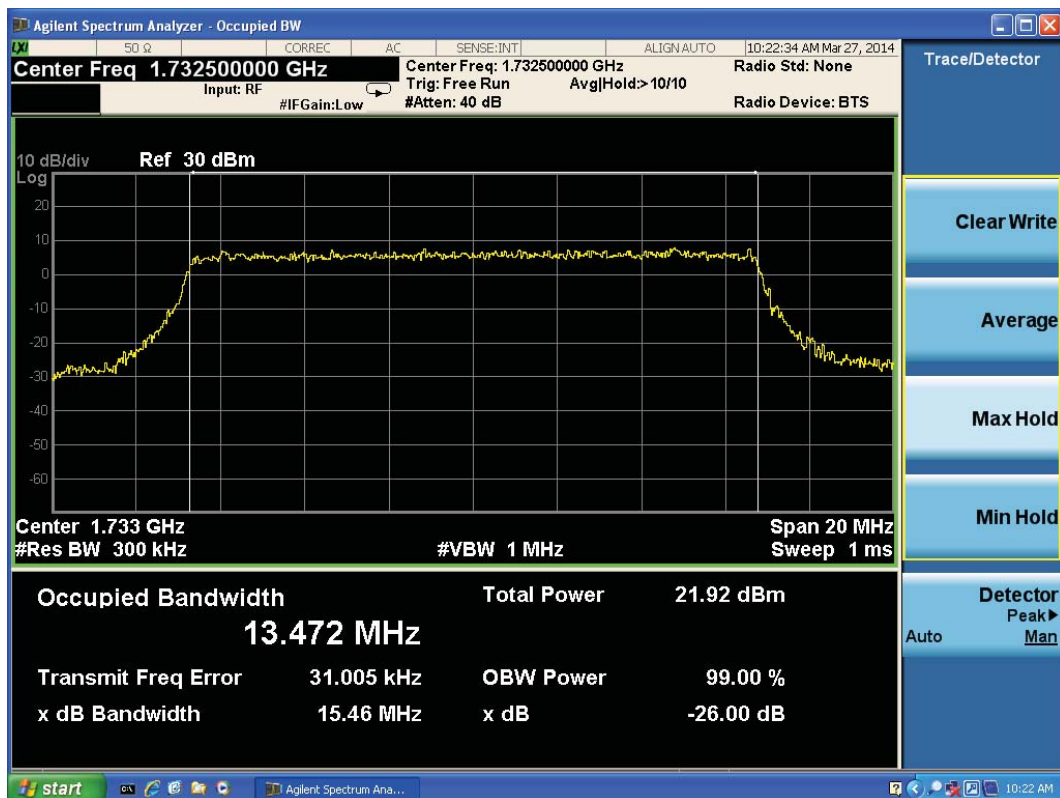
LTE Band 4 16QAM Bandwidth = 15MHz CH20025 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

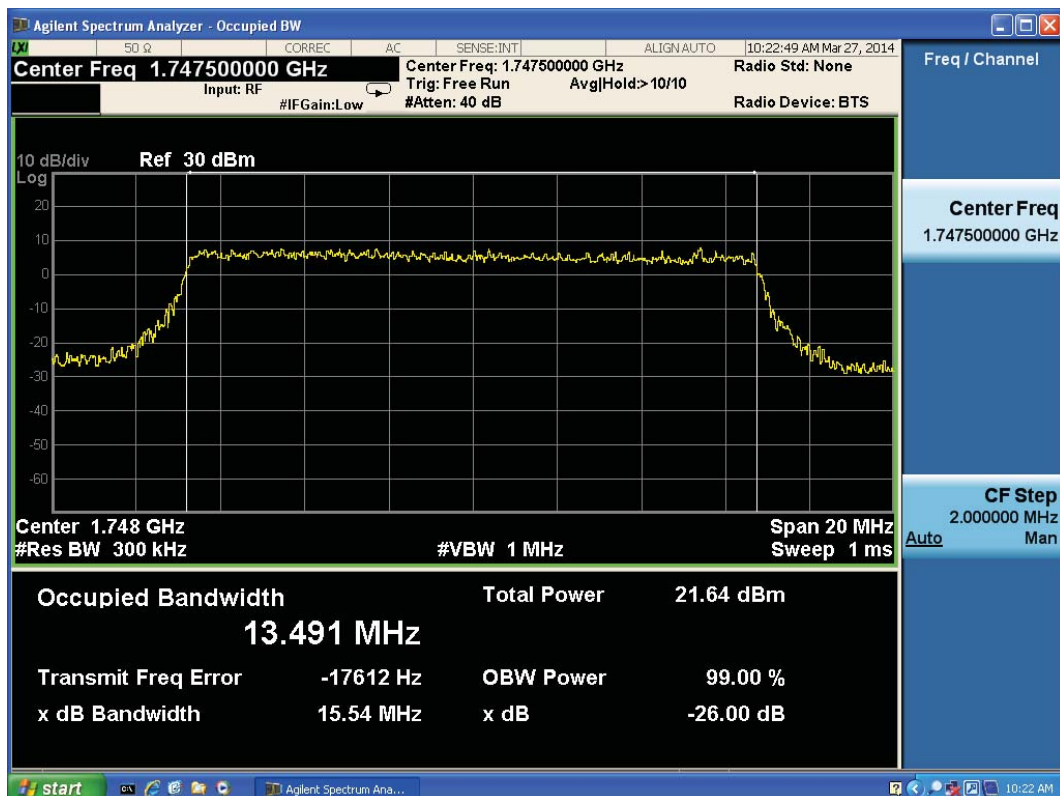
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LTE Band 4 16QAM Bandwidth = 15MHz CH20175 Occupied Bandwidth



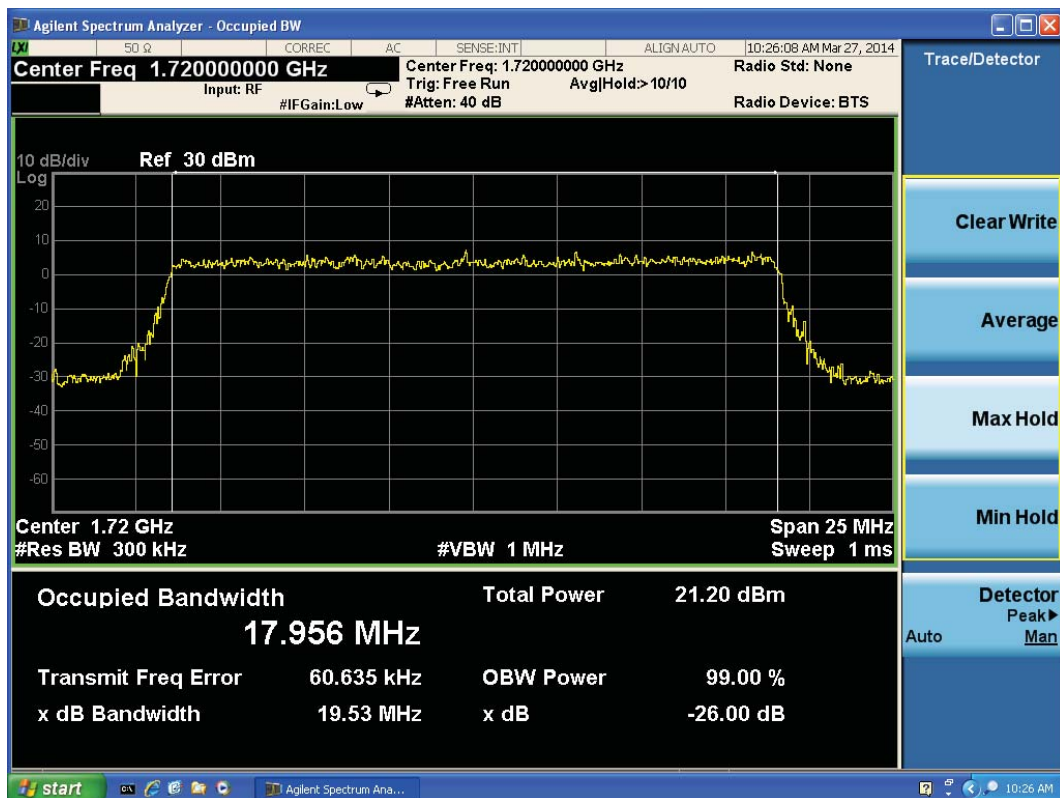
LTE Band 4 16QAM Bandwidth = 15MHz CH20325 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

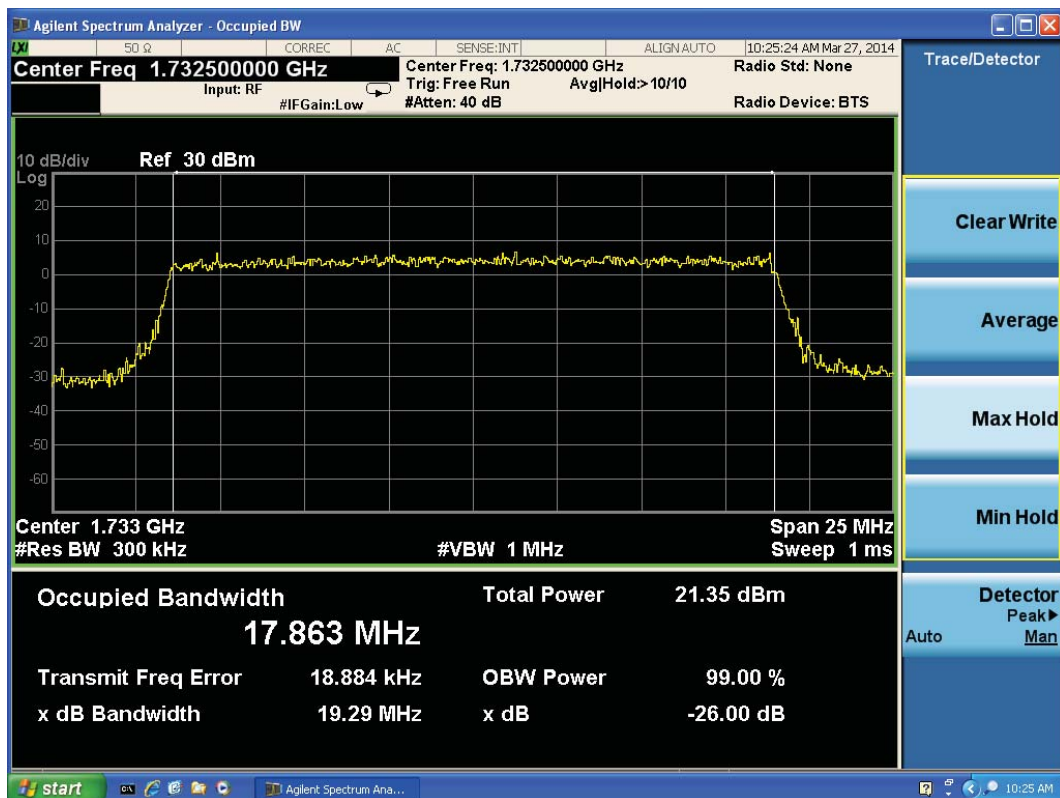
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LTE Band 4 16QAM Bandwidth = 20MHz CH20050 Occupied Bandwidth



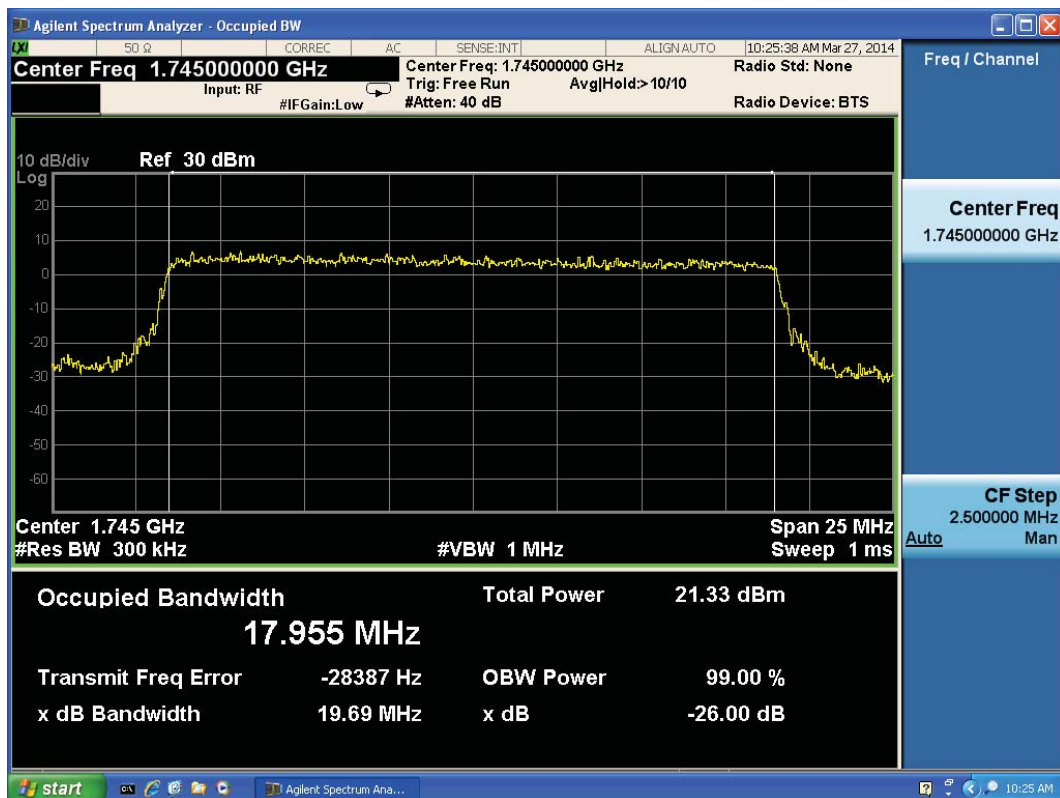
LTE Band 4 16QAM Bandwidth = 20MHz CH20175 Occupied Bandwidth

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LTE Band 4 16QAM Bandwidth = 20MHz CH20300 Occupied Bandwidth

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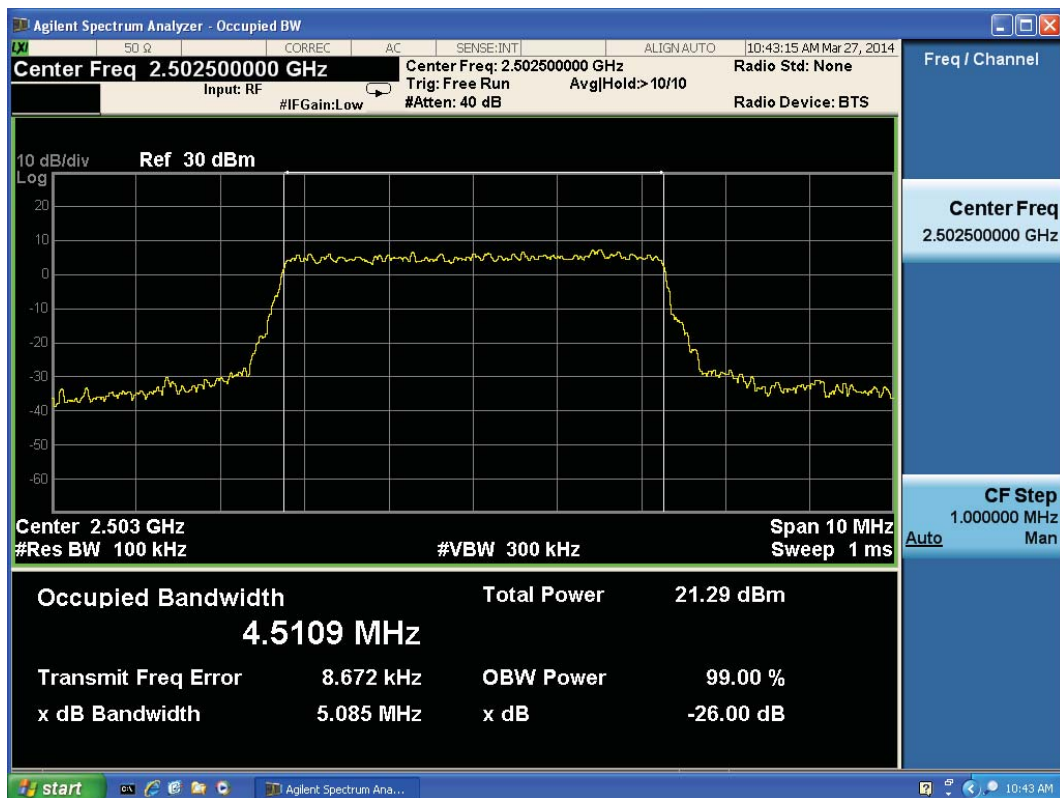
| LTE Band 7 |            |                    |         |                    |                              |                          |
|------------|------------|--------------------|---------|--------------------|------------------------------|--------------------------|
| RB         | Modulation | Bandwidth<br>(MHz) | Channel | Frequency<br>(MHz) | 99% Power<br>Bandwidth (kHz) | -26dBc<br>Bandwidth(kHz) |
| 100%       | QPSK       | 5                  | 20775   | 2502.5             | 4.5109                       | 5.085                    |
|            |            |                    | 21100   | 2535               | 4.5210                       | 5.084                    |
|            |            |                    | 21425   | 2567.5             | 4.5126                       | 5.034                    |
|            |            | 10                 | 20800   | 2505               | 9.0741                       | 10.29                    |
|            |            |                    | 21100   | 2535               | 9.0694                       | 10.32                    |
|            |            |                    | 21400   | 2565               | 9.0542                       | 10.09                    |
|            |            | 15                 | 20825   | 2507.5             | 13.465                       | 15.30                    |
|            |            |                    | 21100   | 2535               | 13.537                       | 15.56                    |
|            |            |                    | 21375   | 2562.5             | 13.493                       | 15.24                    |
|            |            | 20                 | 20850   | 2510               | 17.899                       | 19.43                    |
|            |            |                    | 21100   | 2535               | 17.962                       | 19.69                    |
|            |            |                    | 21350   | 2560               | 17.898                       | 20.49                    |
|            | 16QAM      | 5                  | 20775   | 2502.5             | 4.5144                       | 5.079                    |
|            |            |                    | 21100   | 2535               | 4.5153                       | 4.995                    |
|            |            |                    | 21425   | 2567.5             | 4.5116                       | 5.084                    |
|            |            | 10                 | 20800   | 2505               | 9.0277                       | 10.07                    |
|            |            |                    | 21100   | 2535               | 9.0470                       | 10.10                    |
|            |            |                    | 21400   | 2565               | 9.0287                       | 10.04                    |
|            |            | 15                 | 20825   | 2507.5             | 13.524                       | 15.39                    |
|            |            |                    | 21100   | 2535               | 13.472                       | 15.46                    |
|            |            |                    | 21375   | 2562.5             | 13.491                       | 15.54                    |
|            |            | 20                 | 20850   | 2510               | 17.873                       | 19.50                    |
|            |            |                    | 21100   | 2535               | 17.955                       | 19.89                    |
|            |            |                    | 21350   | 2560               | 17.920                       | 19.38                    |

# TA Technology (Shanghai) Co., Ltd.

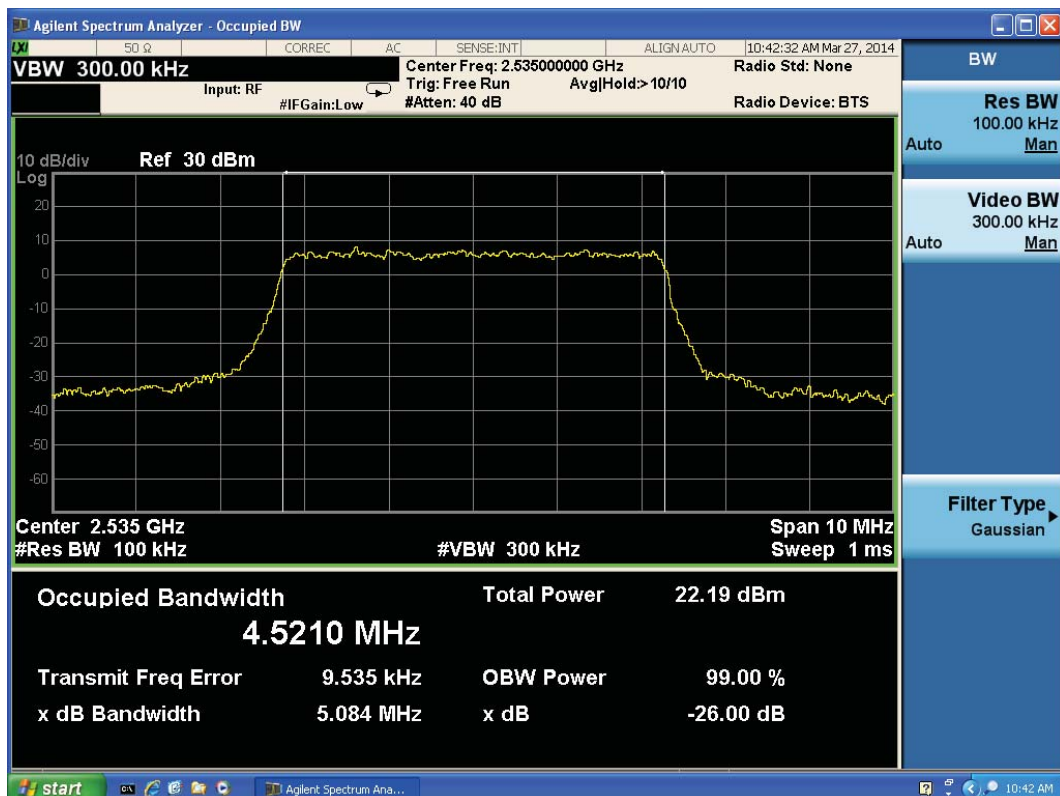
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LTE Band 7 QPSK Bandwidth = 5MHz CH20775 Occupied Bandwidth



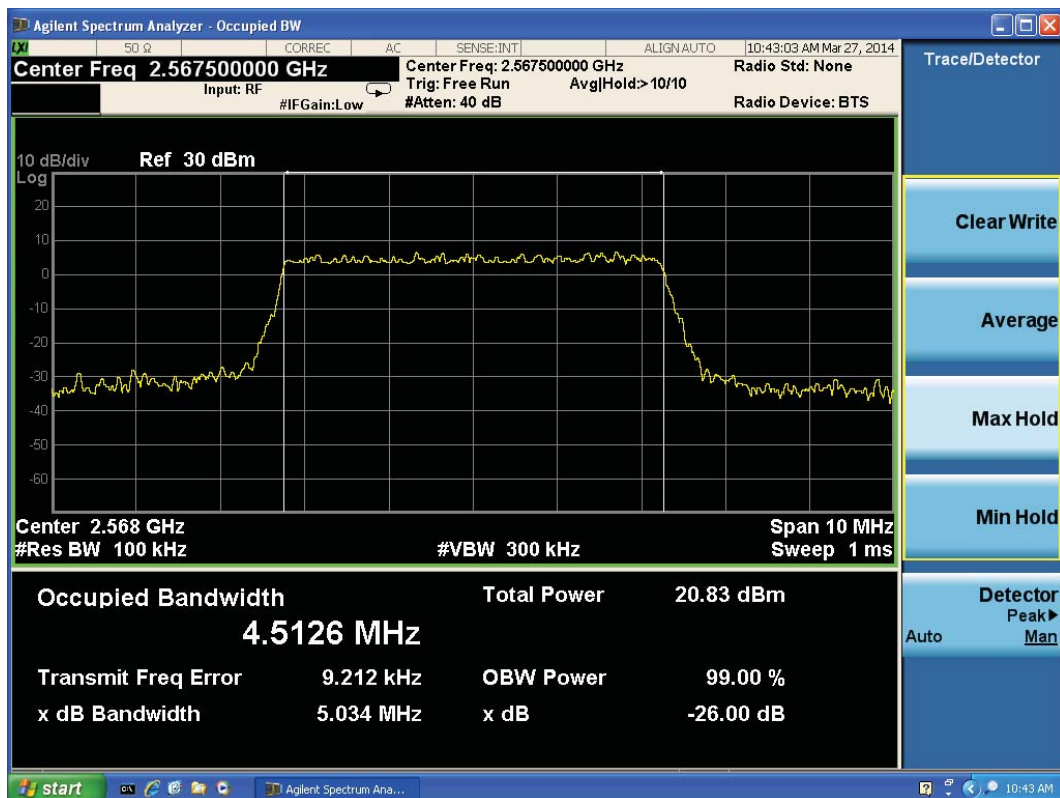
LTE Band 7 QPSK Bandwidth = 5MHz CH21100 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

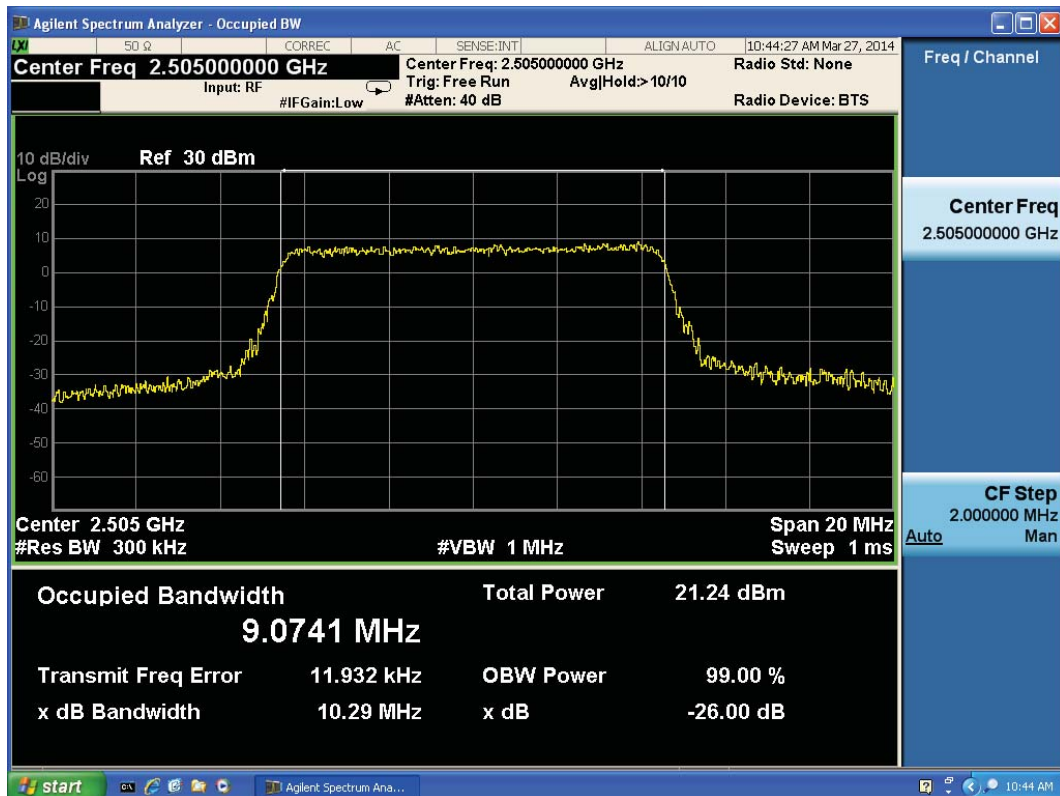
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LTE Band 7 QPSK Bandwidth = 5MHz CH21425 Occupied Bandwidth



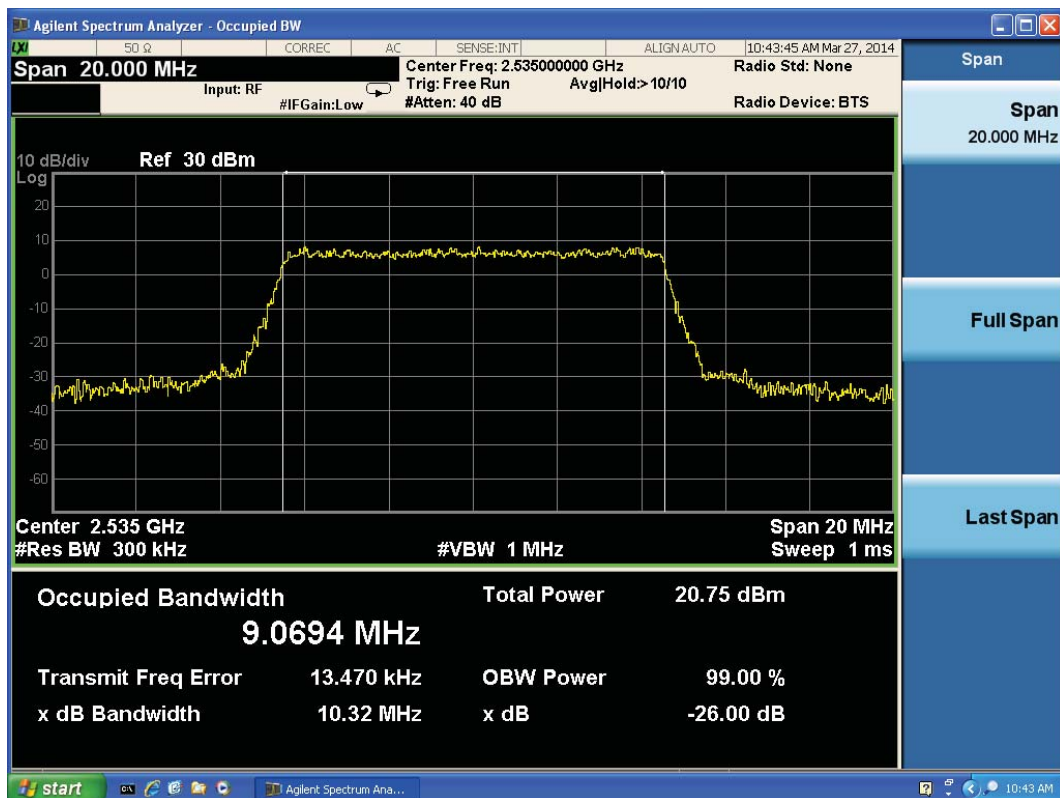
LTE Band 7 QPSK Bandwidth = 10MHz CH20800 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

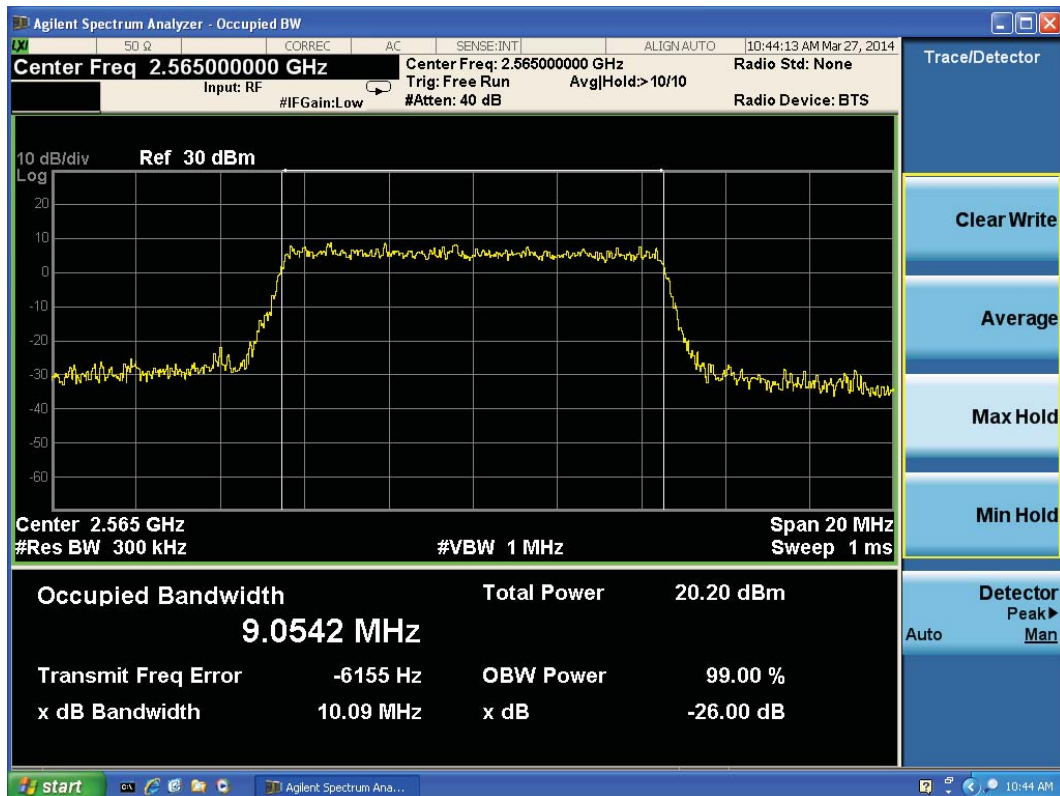
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LTE Band 7 QPSK Bandwidth = 10MHz CH21100 Occupied Bandwidth



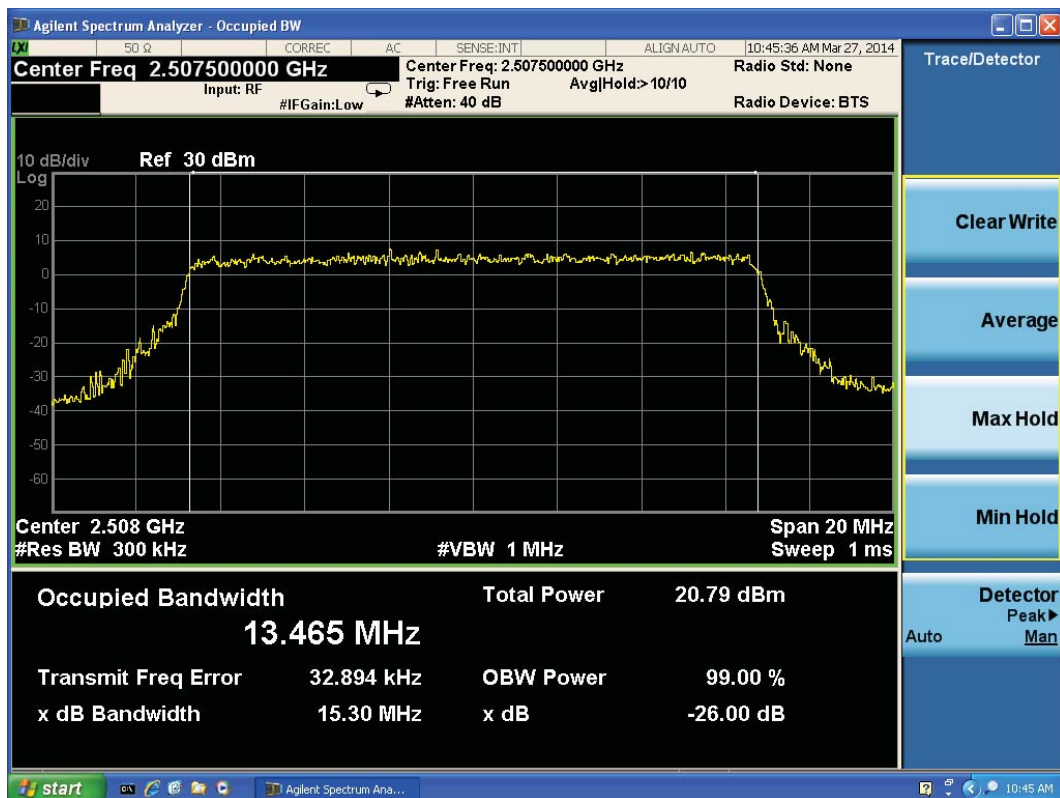
LTE Band 7 QPSK Bandwidth = 10MHz CH21400 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

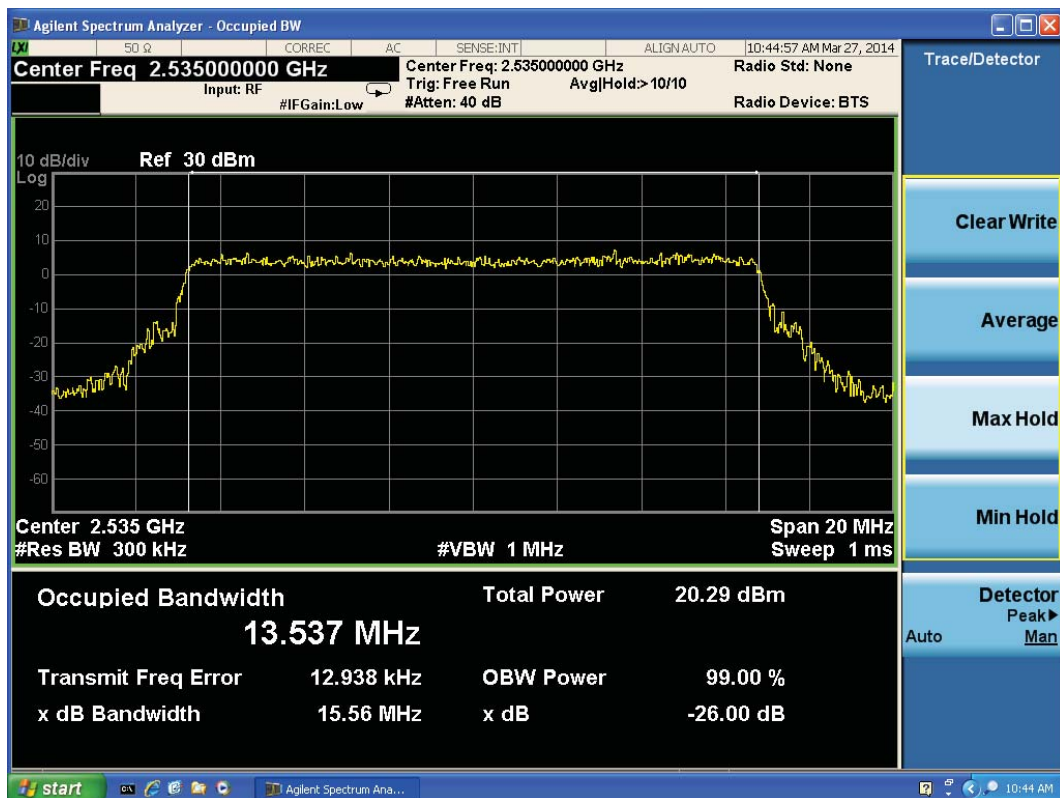
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LTE Band 7 QPSK Bandwidth = 15MHz CH20825 Occupied Bandwidth



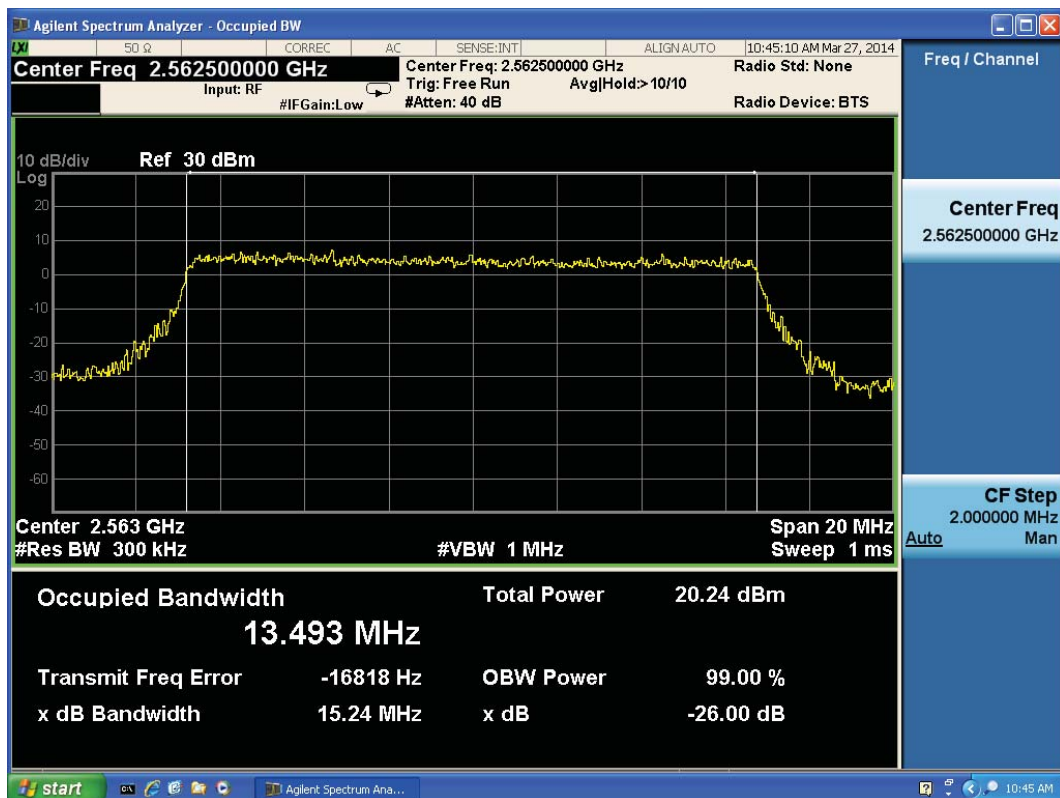
LTE Band 7 QPSK Bandwidth = 15MHz CH21100 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

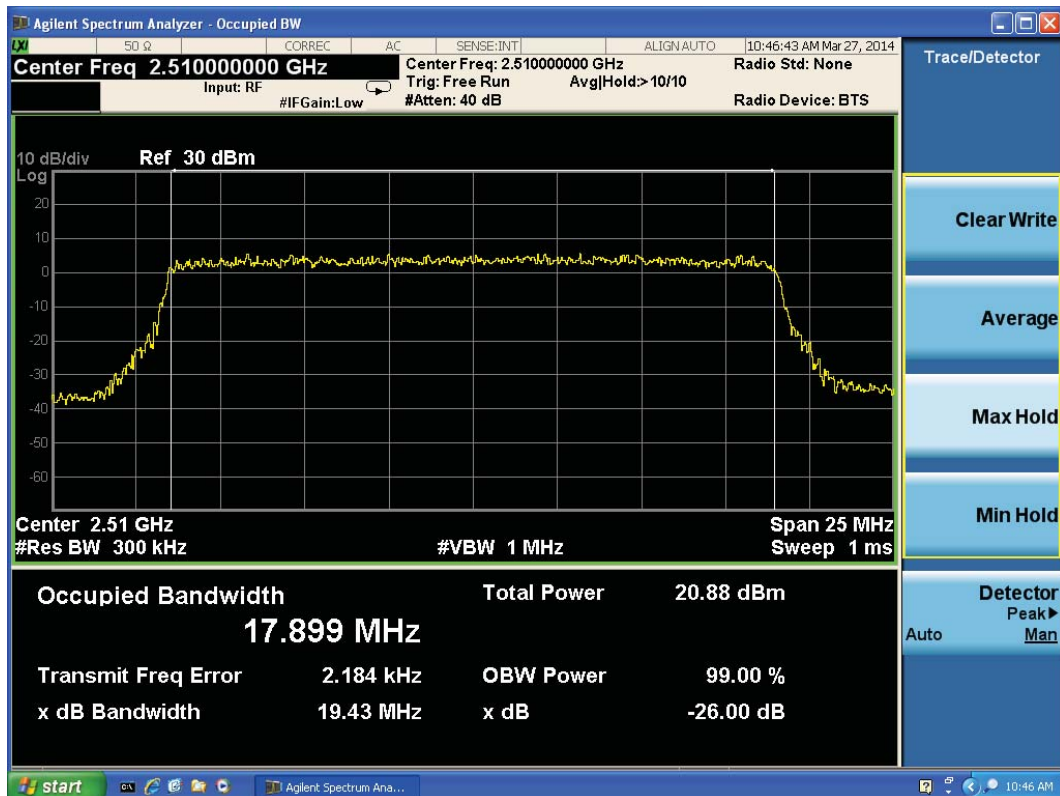
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LTE Band 7 QPSK Bandwidth = 15MHz CH21375 Occupied Bandwidth



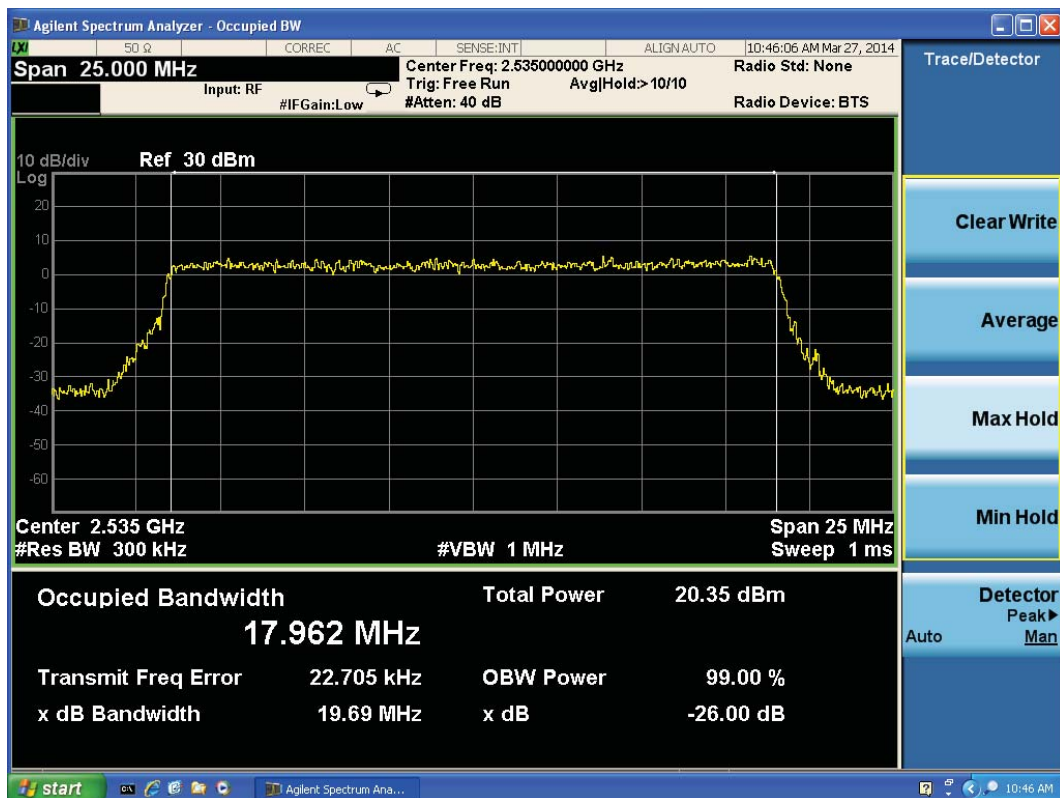
LTE Band 7 QPSK Bandwidth = 20MHz CH20850 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

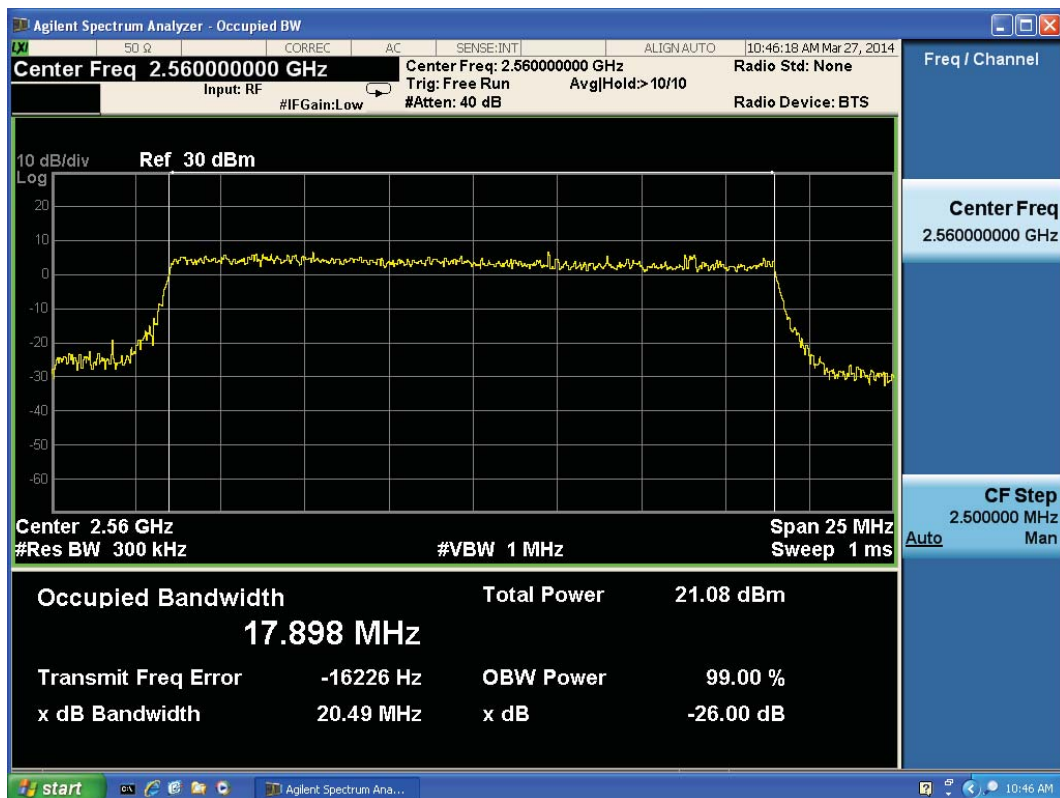
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LTE Band 7 QPSK Bandwidth = 20MHz CH21100 Occupied Bandwidth



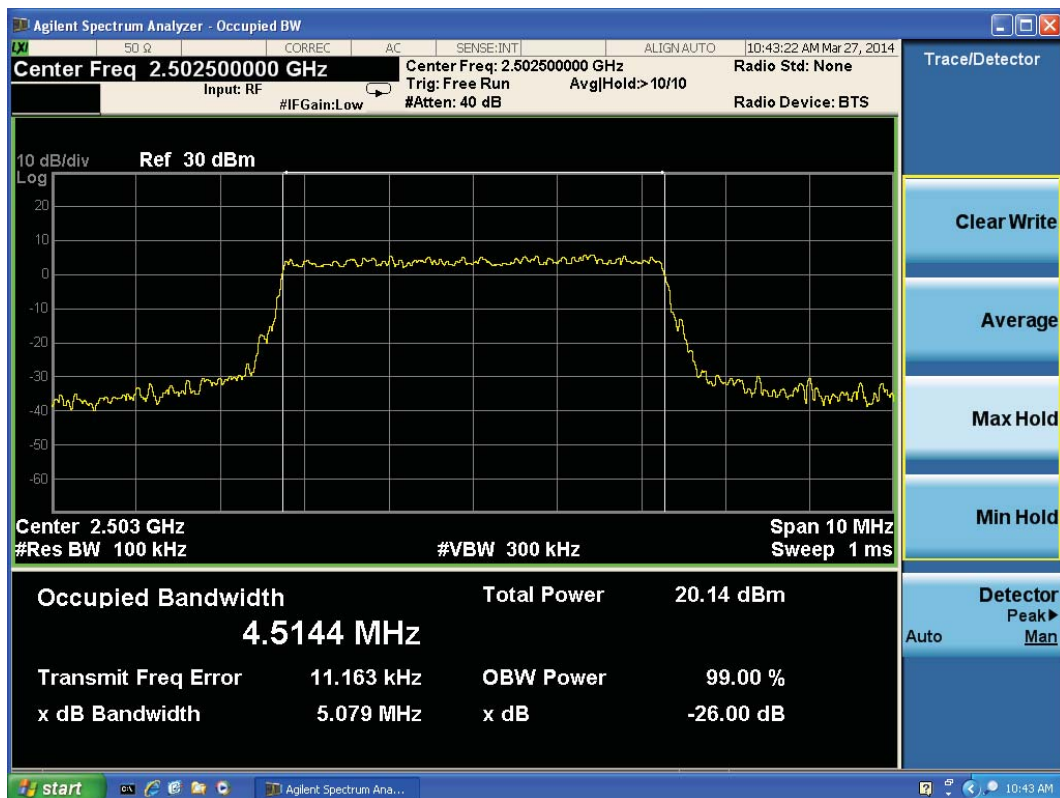
LTE Band 7 QPSK Bandwidth = 20MHz CH21350 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

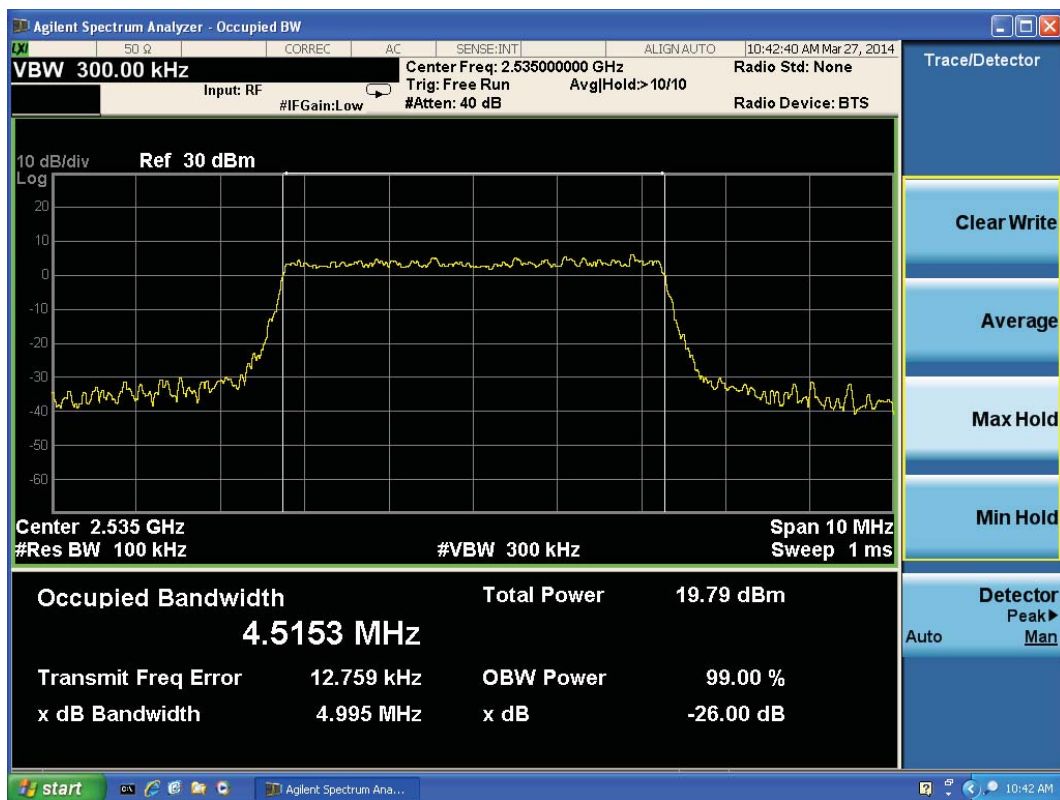
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LTE Band 7 16QAM Bandwidth = 5MHz CH20775 Occupied Bandwidth



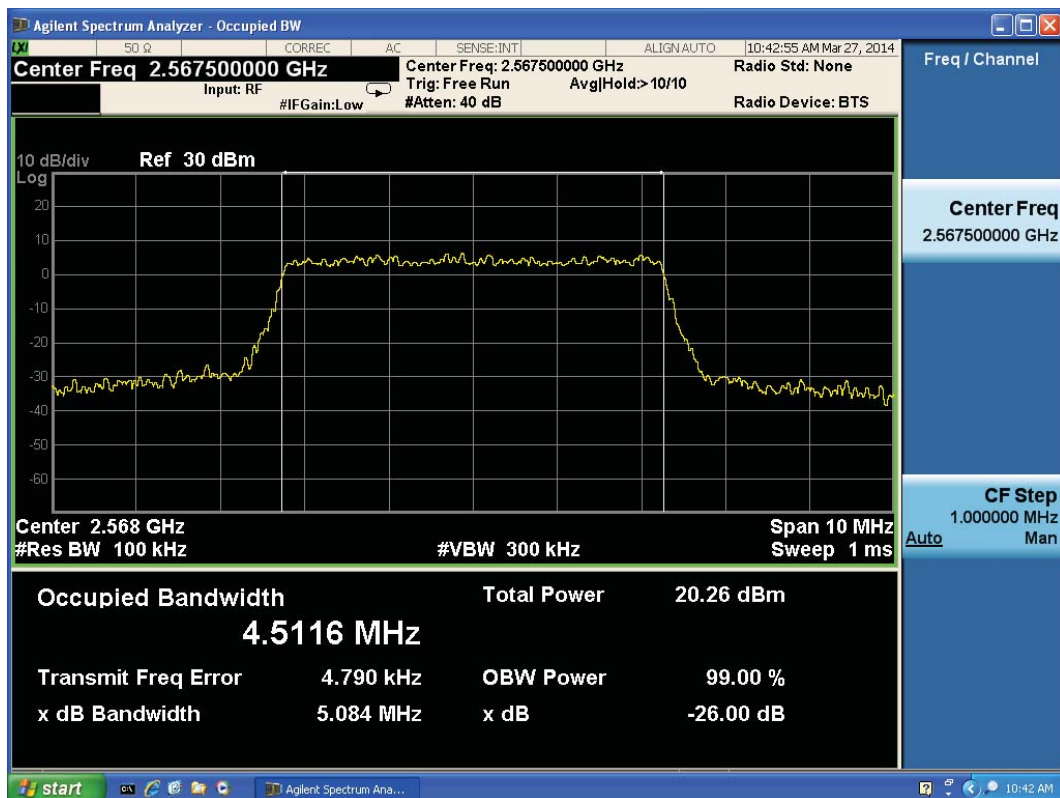
LTE Band 7 16QAM Bandwidth = 5MHz CH21100 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

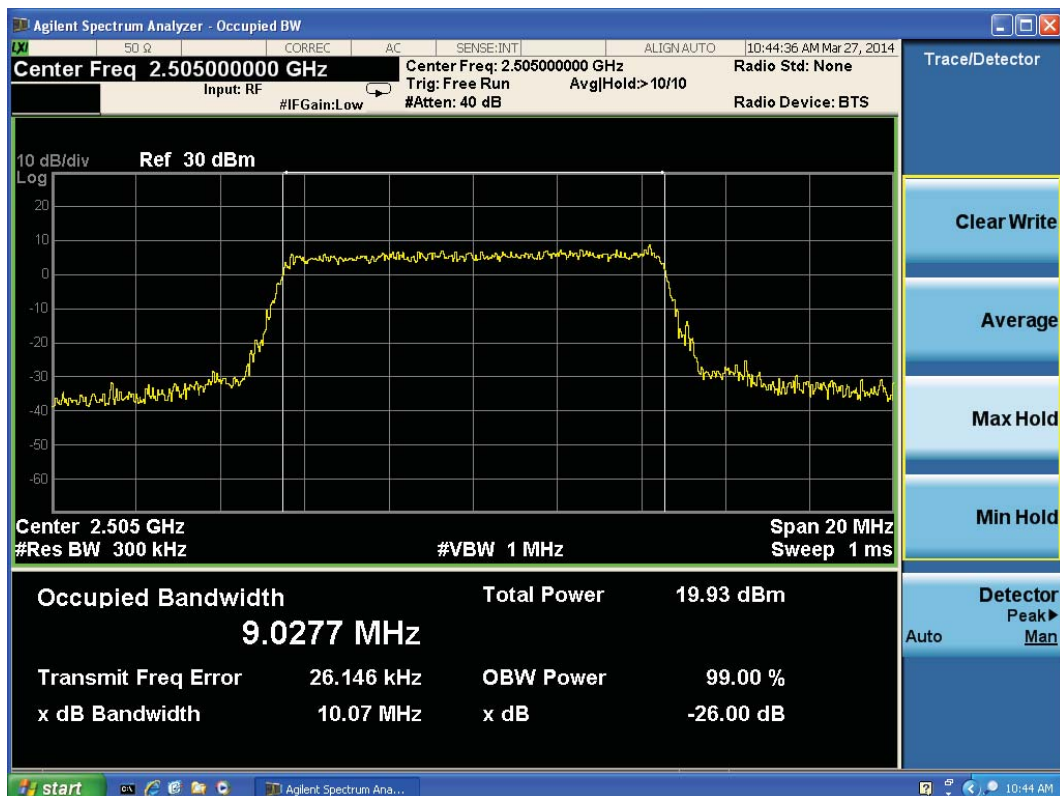
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LTE Band 7 16QAM Bandwidth = 5MHz CH21425 Occupied Bandwidth



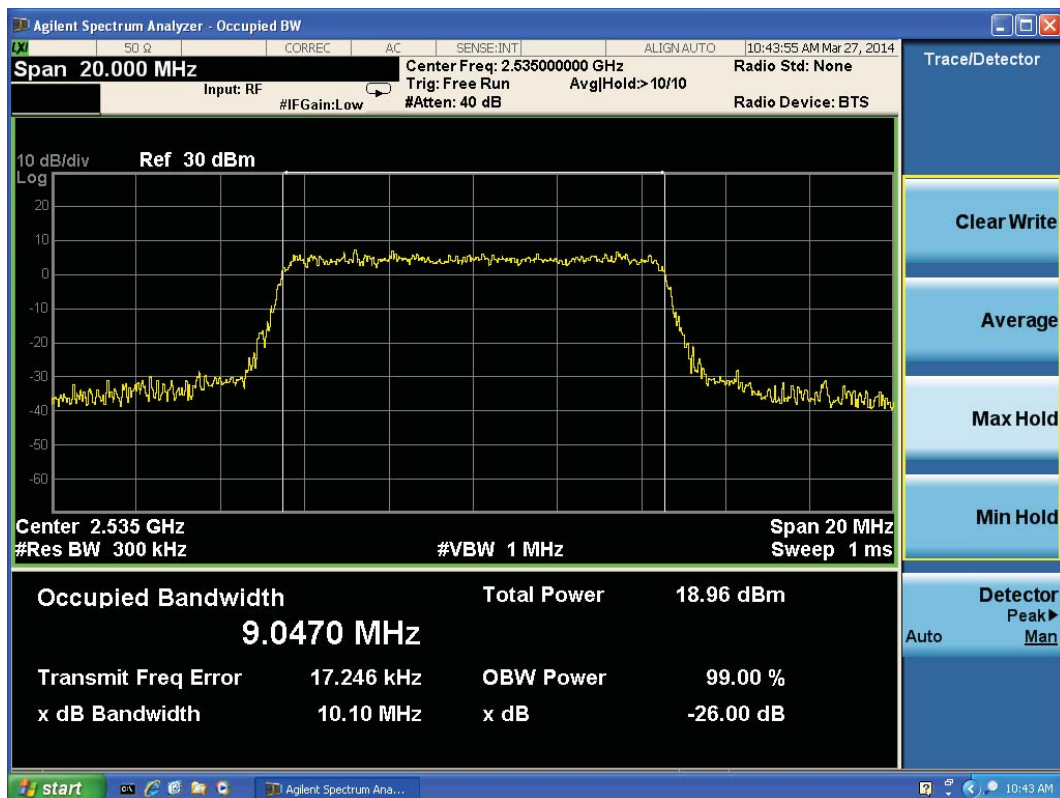
LTE Band 7 16QAM Bandwidth = 10MHz CH20800 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

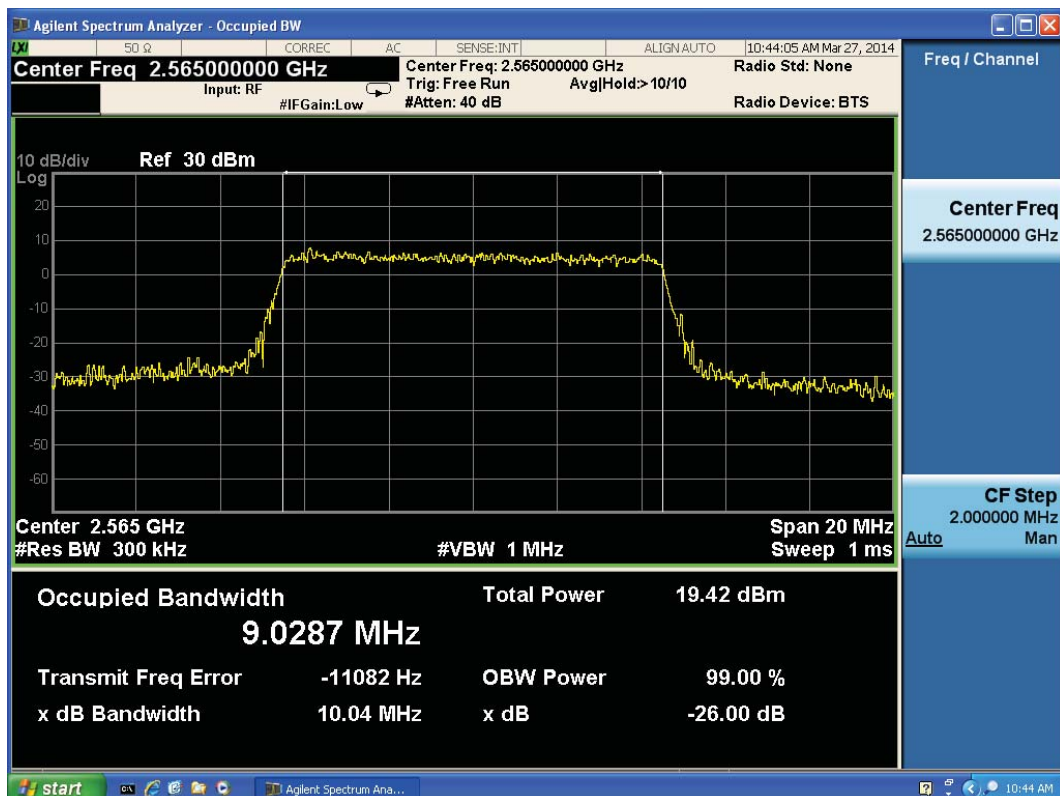
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LTE Band 7 16QAM Bandwidth = 10MHz CH21100 Occupied Bandwidth



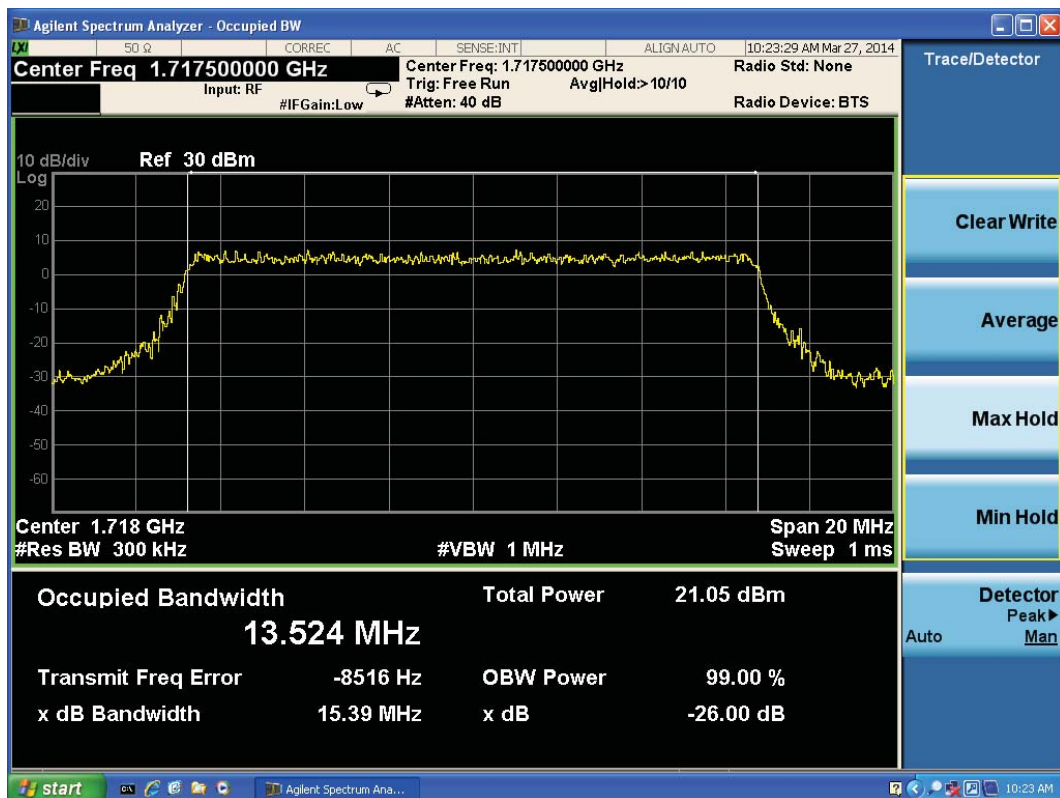
LTE Band 7 16QAM Bandwidth = 10MHz CH21400 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

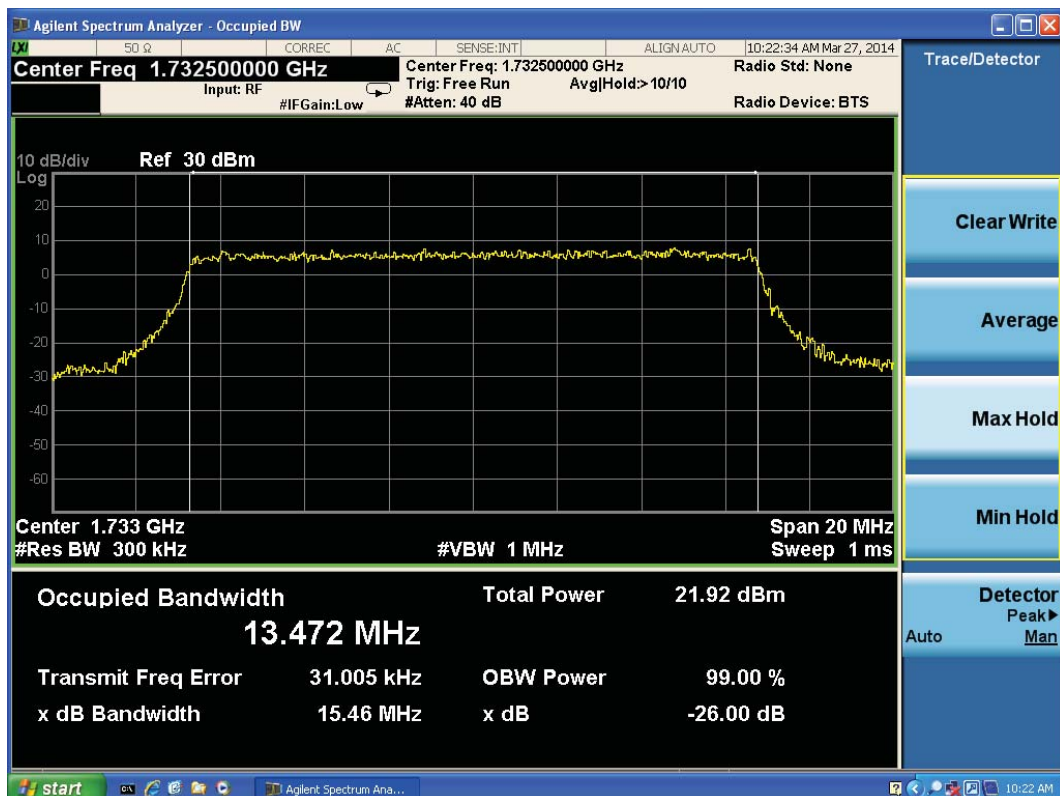
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LTE Band 7 16QAM Bandwidth = 15MHz CH20825 Occupied Bandwidth



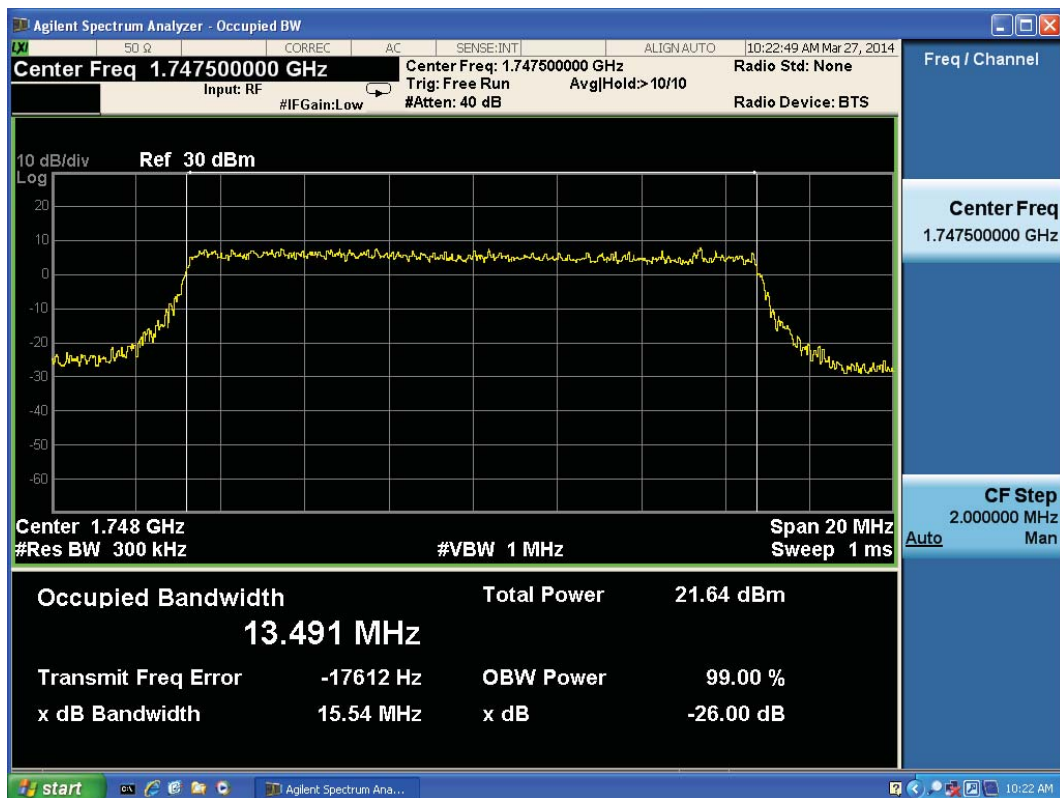
LTE Band 7 16QAM Bandwidth = 15MHz CH21100 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

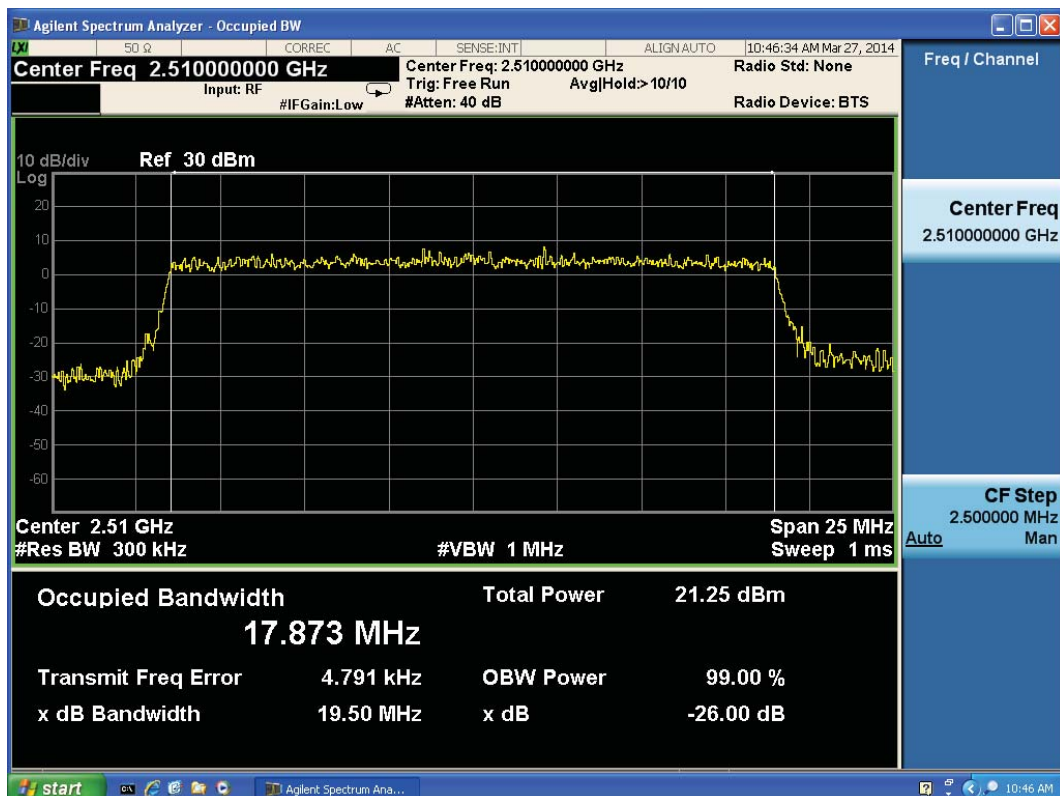
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LTE Band 7 16QAM Bandwidth = 15MHz CH21375 Occupied Bandwidth



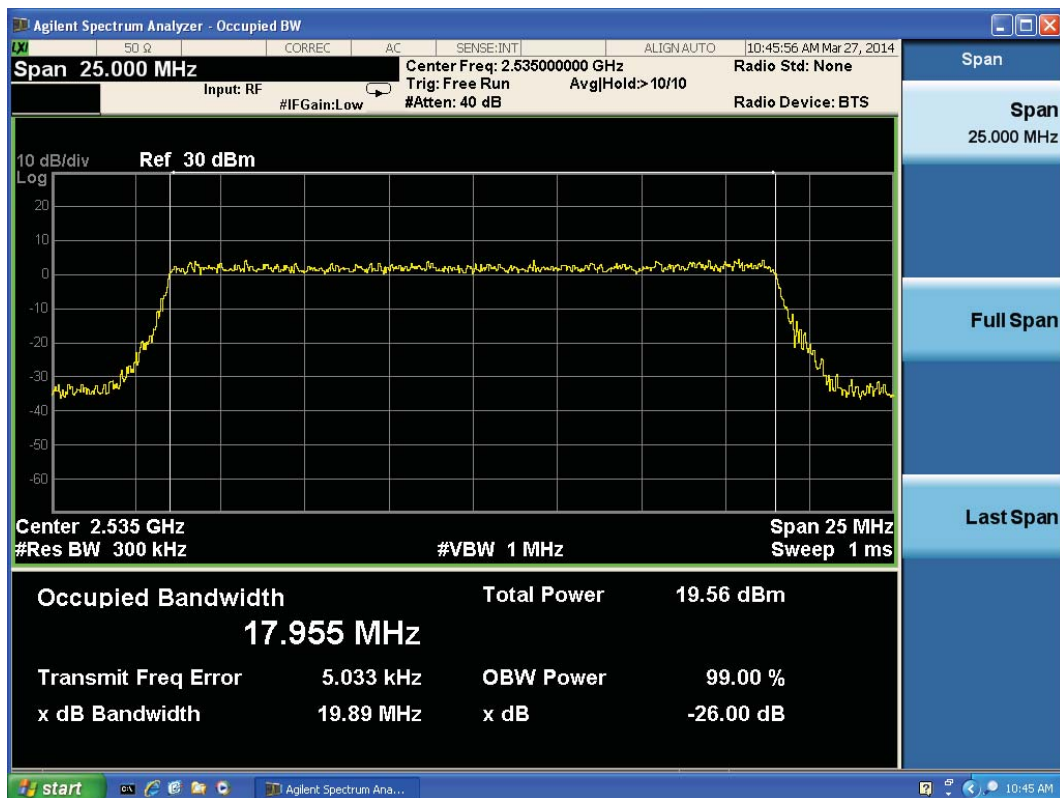
LTE Band 7 16QAM Bandwidth = 20MHz CH20850 Occupied Bandwidth

# TA Technology (Shanghai) Co., Ltd.

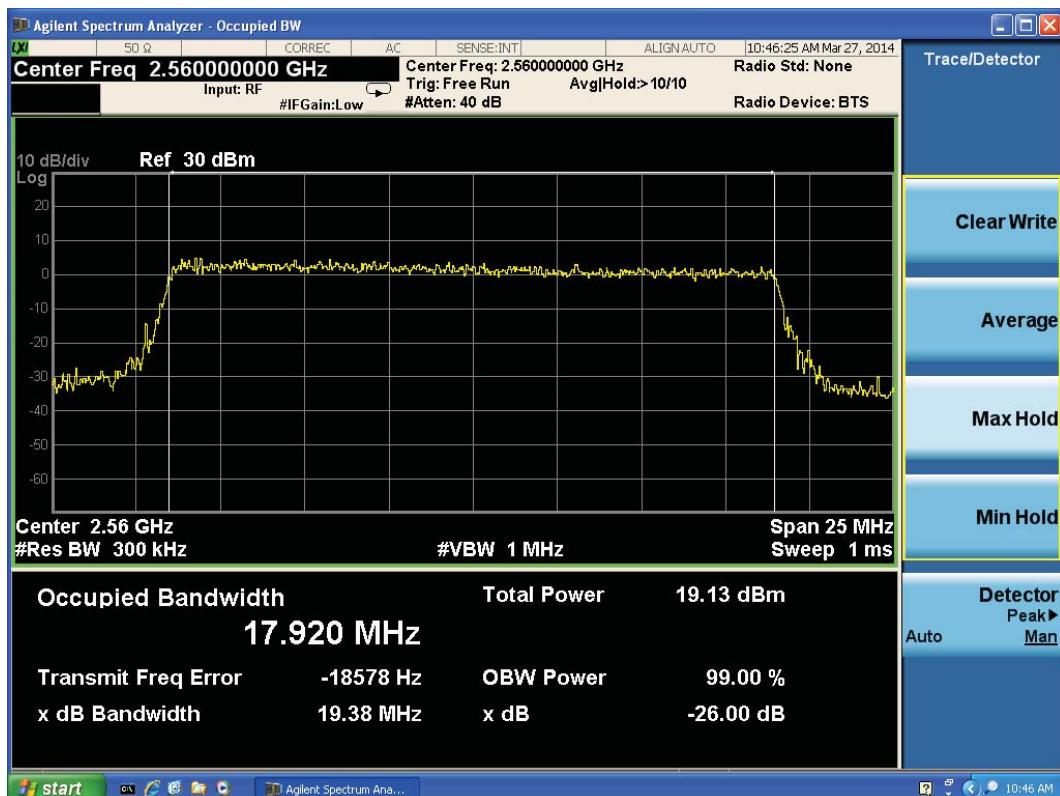
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LTE Band 7 16QAM Bandwidth = 20MHz CH21100 Occupied Bandwidth



LTE Band 7 16QAM Bandwidth = 20MHz CH21350 Occupied Bandwidth

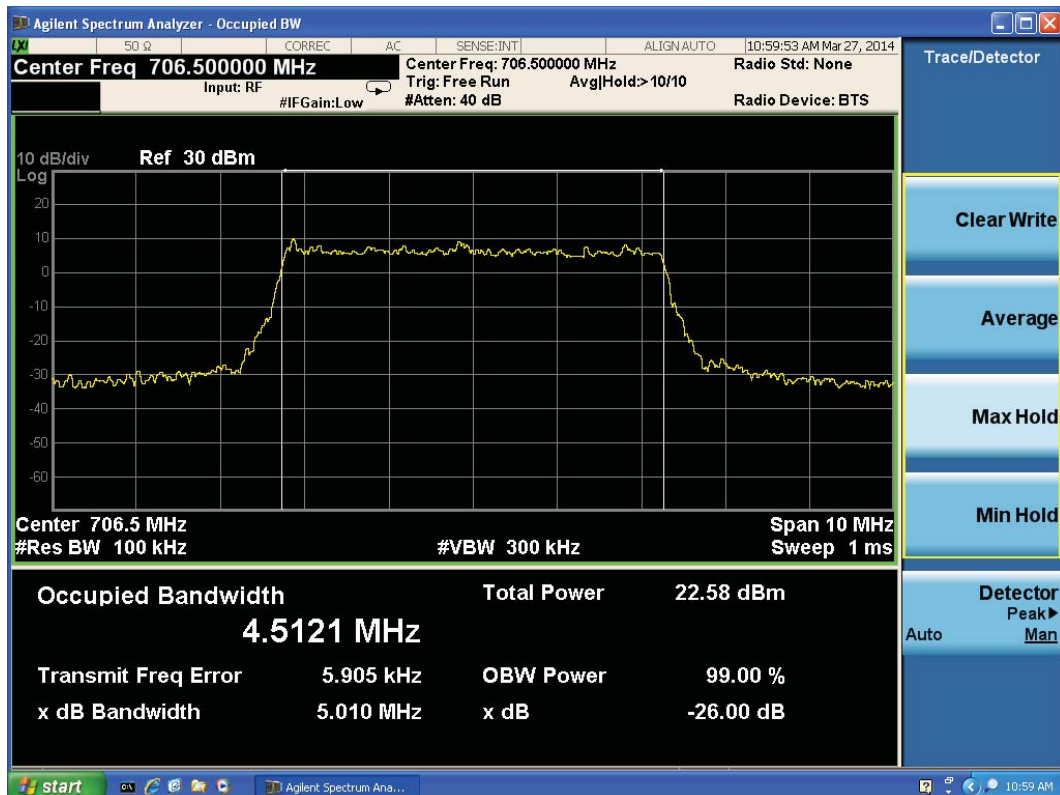
# TA Technology (Shanghai) Co., Ltd.

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| LTE Band 17 |            |                   |         |                 |                           |                       |
|-------------|------------|-------------------|---------|-----------------|---------------------------|-----------------------|
| RB          | Modulation | Bandwidth ((MHz)) | Channel | Frequency (MHz) | 99% Power Bandwidth (kHz) | -26dBc Bandwidth(kHz) |
| 100%        | QPSK       | 5                 | 23755   | 706.5           | 4.5121                    | 5.010                 |
|             |            |                   | 23790   | 710             | 4.5174                    | 5.008                 |
|             |            |                   | 23825   | 713.5           | 4.5123                    | 4.936                 |
|             |            | 10                | 23780   | 709             | 9.0616                    | 10.20                 |
|             |            |                   | 23790   | 710             | 9.0671                    | 10.22                 |
|             |            |                   | 23800   | 711             | 9.0405                    | 10.26                 |
|             | 16QAM      | 5                 | 23755   | 706.5           | 4.5250                    | 5.138                 |
|             |            |                   | 23790   | 710             | 4.5284                    | 5.106                 |
|             |            |                   | 23825   | 713.5           | 4.5113                    | 5.066                 |
|             |            | 10                | 23780   | 709             | 9.0645                    | 10.20                 |
|             |            |                   | 23790   | 710             | 9.0447                    | 10.25                 |
|             |            |                   | 23800   | 711             | 9.0372                    | 10.11                 |



LTE Band 17 QPSK Bandwidth = 5MHz CH23755 Occupied Bandwidth