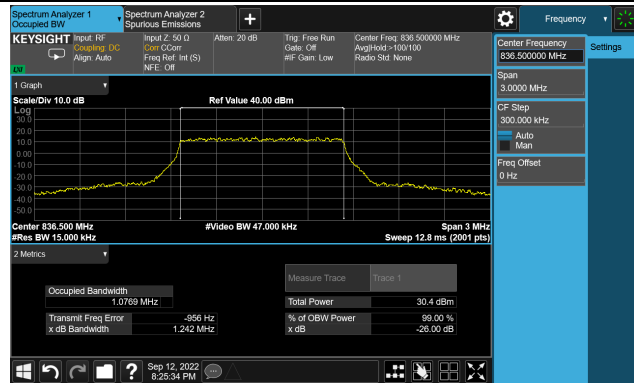
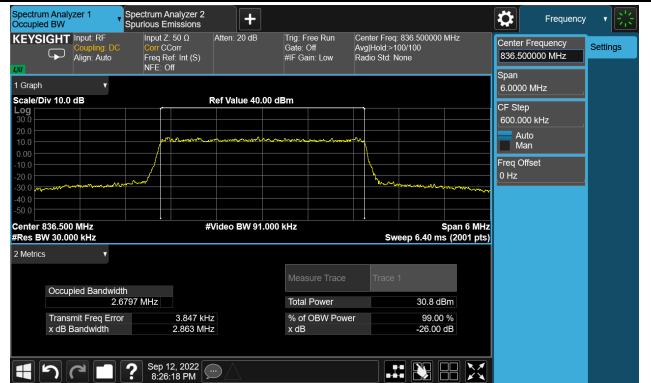


99% Bandwidth - QPSK

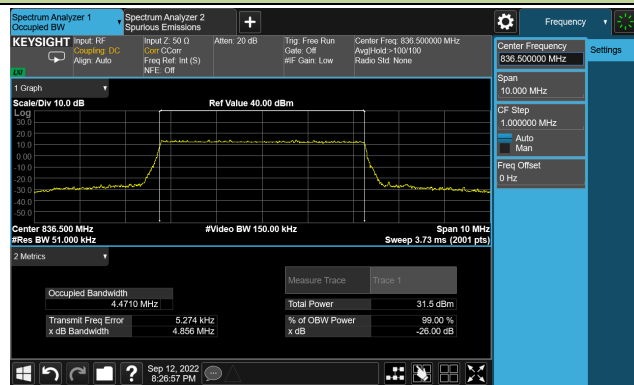
1.4MHz Channel Bandwidth



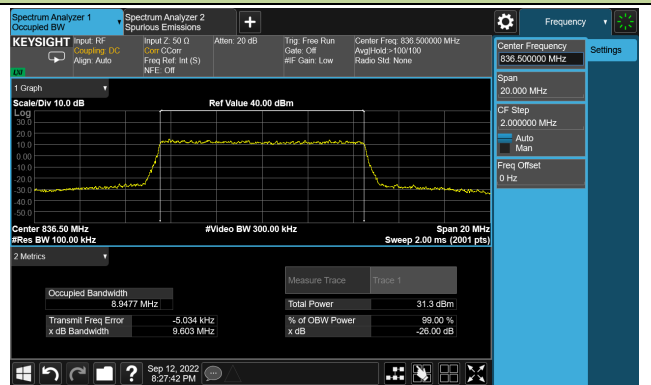
3MHz Channel Bandwidth



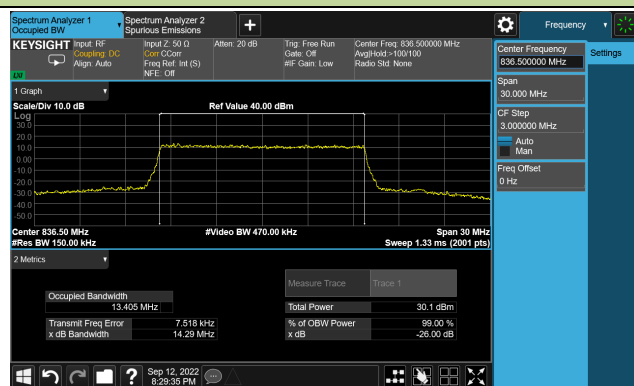
5MHz Channel Bandwidth



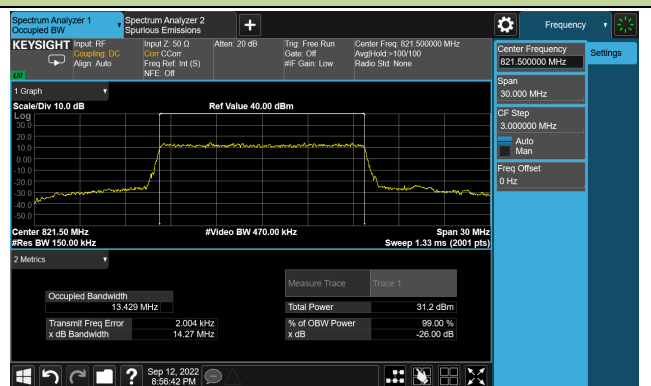
10MHz Channel Bandwidth



15MHz Channel Bandwidth

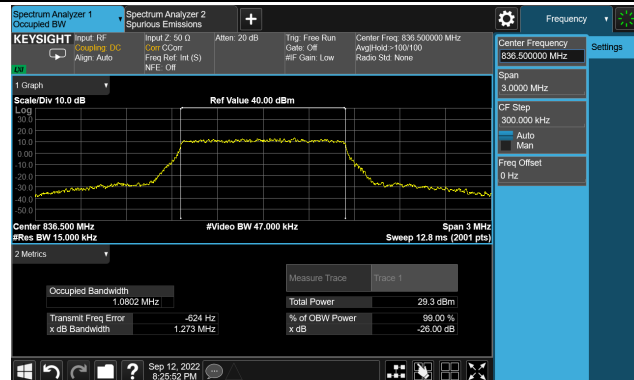


821.5MHz

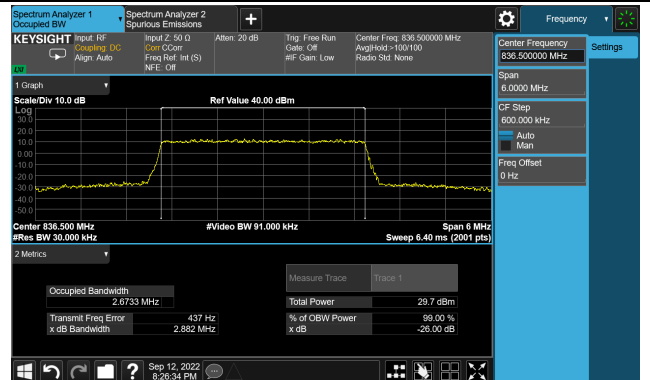


99% Bandwidth -16QAM

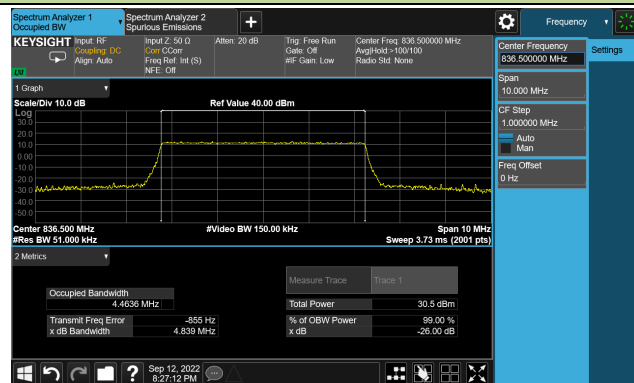
1.4MHz Channel Bandwidth



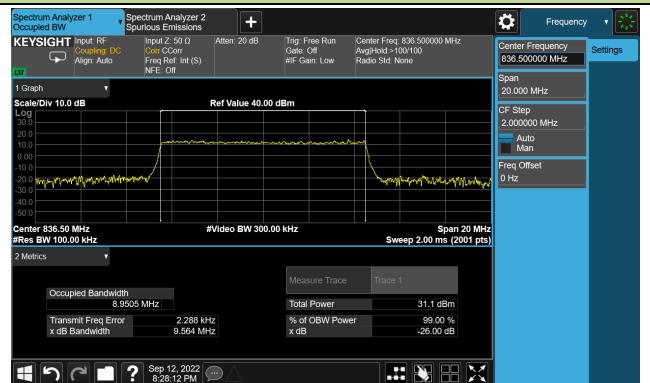
3MHz Channel Bandwidth



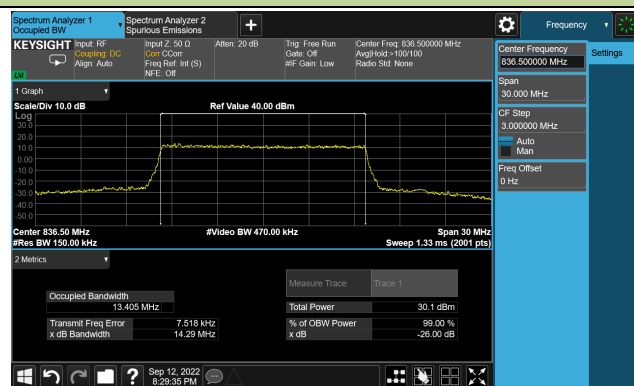
5MHz Channel Bandwidth



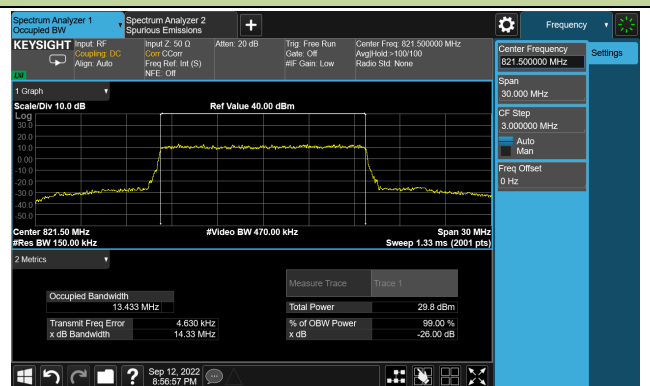
10MHz Channel Bandwidth



15MHz Channel Bandwidth

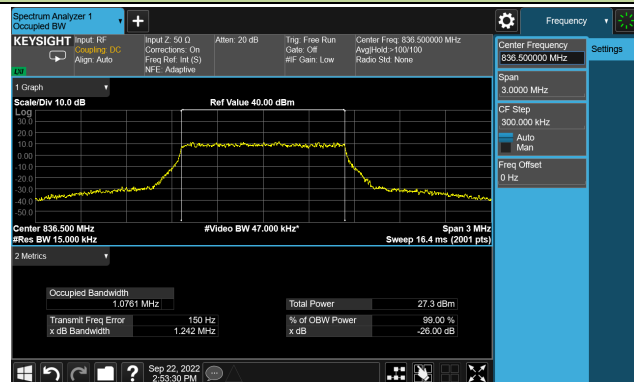


821.5MHz

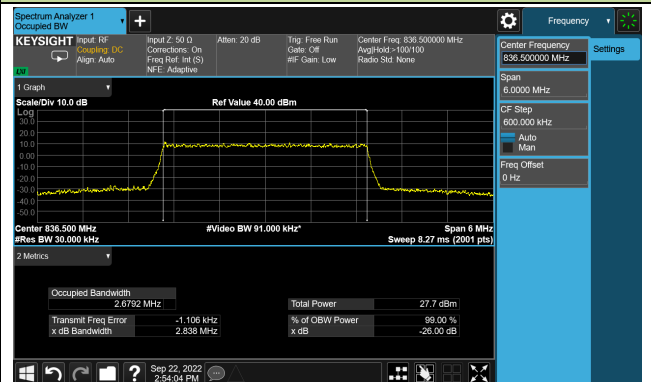


99% Bandwidth - 64QAM

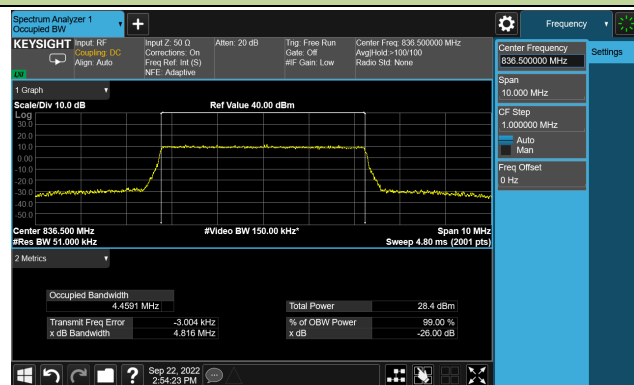
1.4MHz Channel Bandwidth



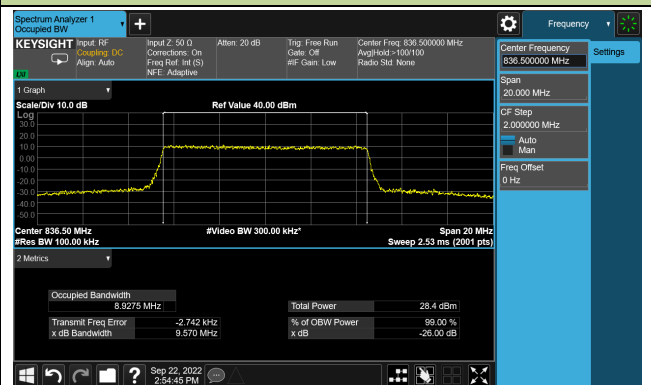
3MHz Channel Bandwidth



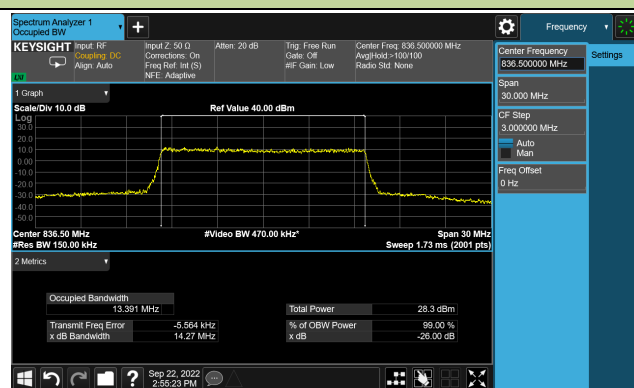
5MHz Channel Bandwidth



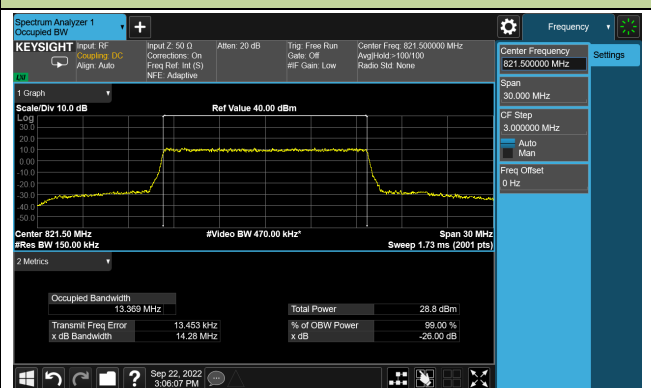
10MHz Channel Bandwidth



15MHz Channel Bandwidth



821.5MHz

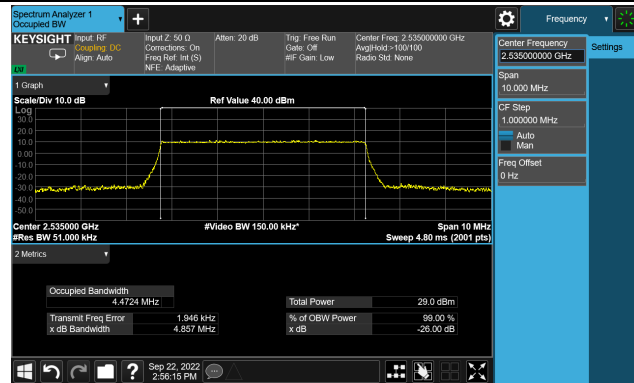


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|-----------|------------|---------------|------------|
| Test Site | SIP-SR1 | Test Engineer | Allen Zou |
| Test Date | 2022/09/22 | Test Band | LTE Band 7 |

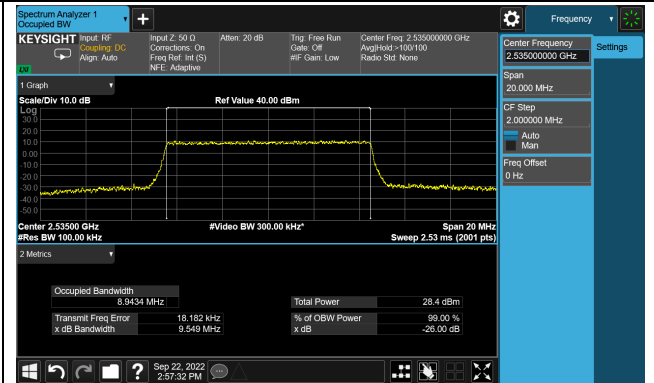
| Modulation | Bandwidth (MHz) | Frequency (MHz) | 99% Bandwidth (MHz) |
|------------|-----------------|-----------------|---------------------|
| QPSK | 5 | 2535.0 | 4.47 |
| | 10 | | 8.94 |
| | 15 | | 13.40 |
| | 20 | | 17.85 |
| 16QAM | 5 | 2535.0 | 4.45 |
| | 10 | | 8.93 |
| | 15 | | 13.39 |
| | 20 | | 17.84 |
| 64QAM | 5 | 2535.0 | 4.46 |
| | 10 | | 8.93 |
| | 15 | | 13.36 |
| | 20 | | 17.85 |

99% Bandwidth - QPSK

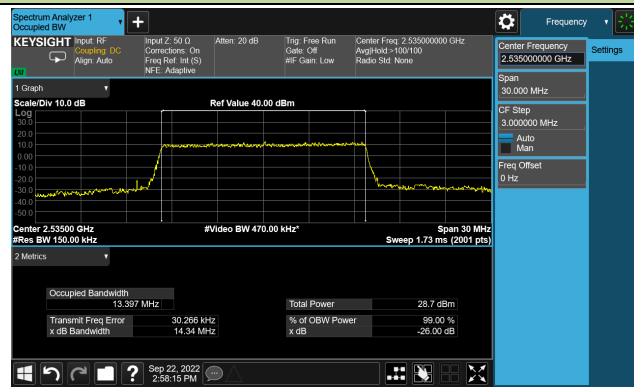
5MHz Channel Bandwidth



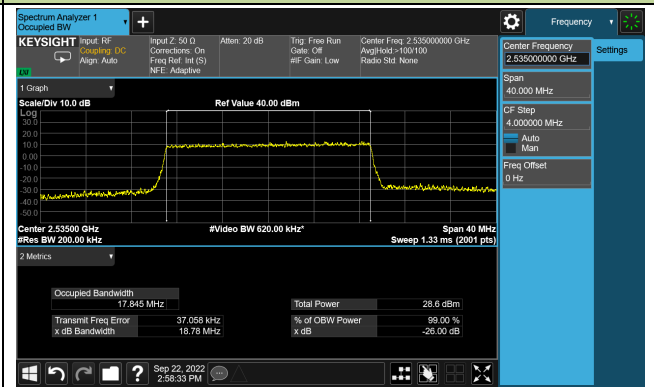
10MHz Channel Bandwidth



15MHz Channel Bandwidth

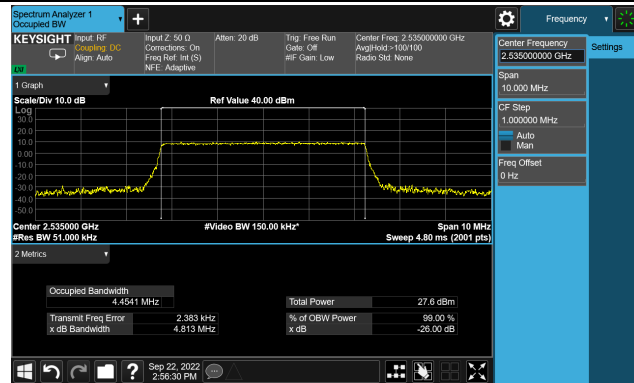


20MHz Channel Bandwidth

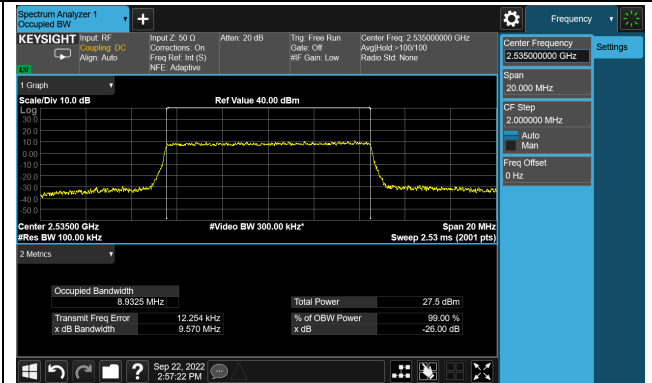


99% Bandwidth - 16QAM

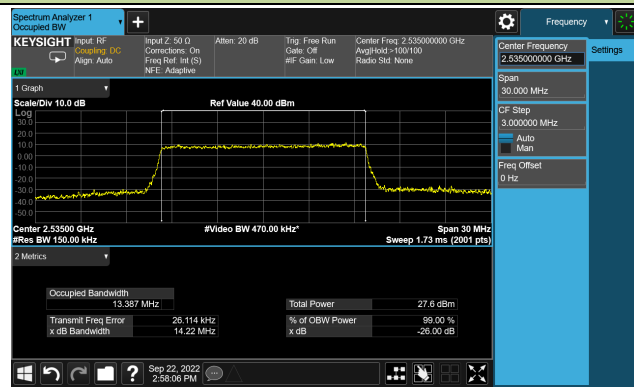
5MHz Channel Bandwidth



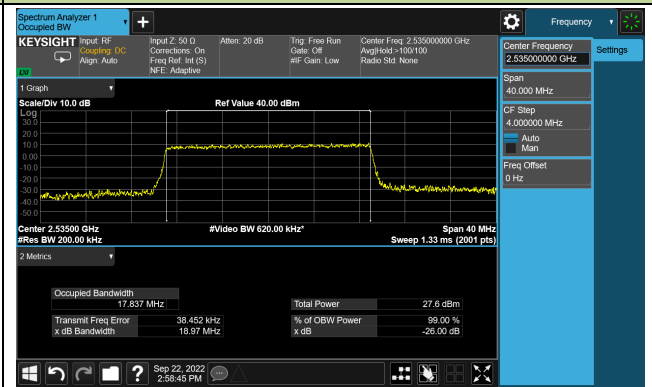
10MHz Channel Bandwidth



15MHz Channel Bandwidth

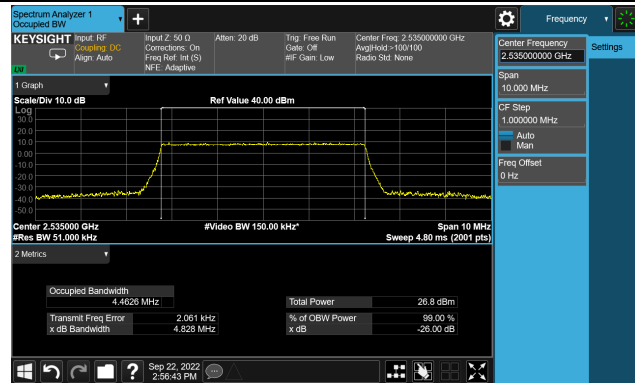


20MHz Channel Bandwidth

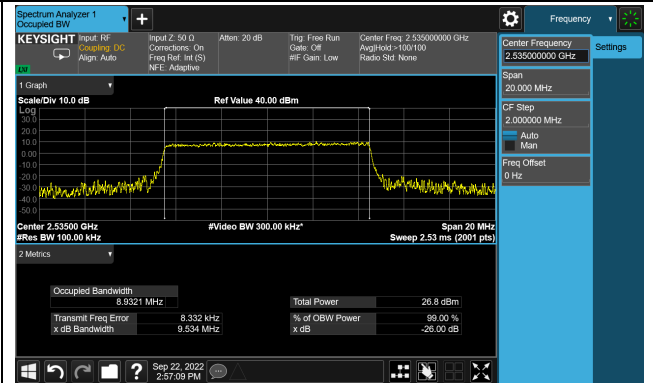


99% Bandwidth - 64QAM

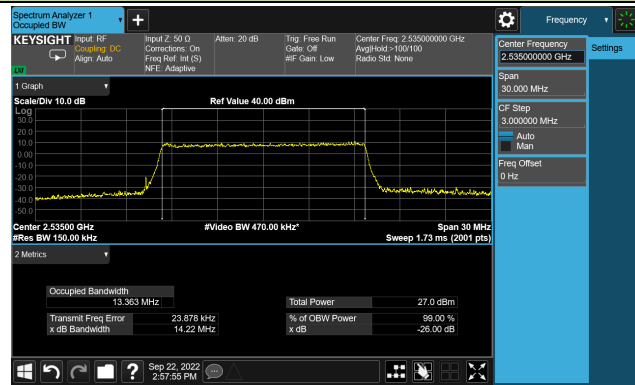
5MHz Channel Bandwidth



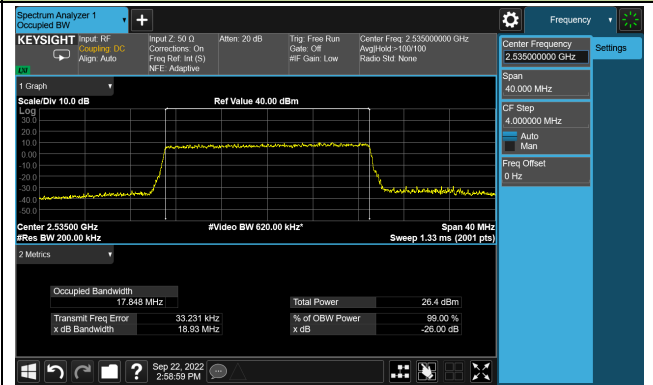
10MHz Channel Bandwidth



15MHz Channel Bandwidth



20MHz Channel Bandwidth

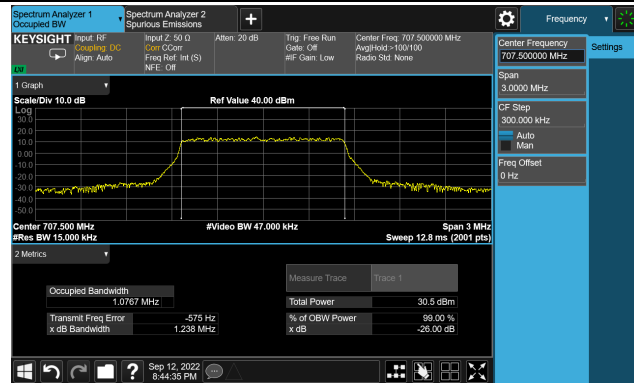


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|-----------|-------------------------|---------------|-------------|
| Test Site | SIP-SR1 | Test Engineer | Allen Zou |
| Test Date | 2022/09/12 ~ 2022/09/22 | Test Band | LTE Band 12 |

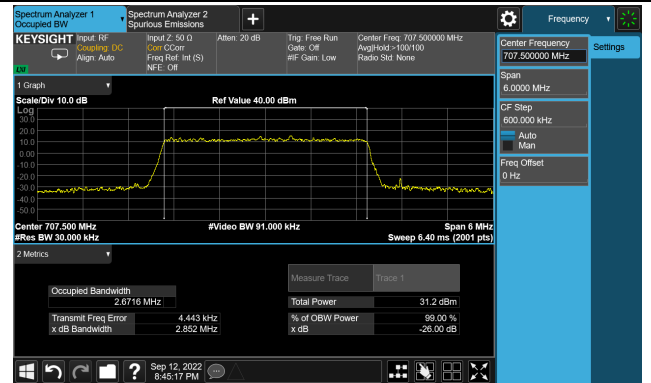
| Frequency (MHz) | Bandwidth (MHz) | Frequency (MHz) |
|-----------------|-----------------|-----------------|
| QPSK | | |
| 707.5 | 1.4 | 1.08 |
| | 3 | 2.67 |
| | 5 | 4.48 |
| | 10 | 8.97 |
| 16QAM | | |
| 707.5 | 1.4 | 1.08 |
| | 3 | 2.67 |
| | 5 | 4.46 |
| | 10 | 8.96 |
| 64QAM | | |
| 707.5 | 1.4 | 1.08 |
| | 3 | 2.67 |
| | 5 | 4.46 |
| | 10 | 8.95 |

99% Bandwidth - QPSK

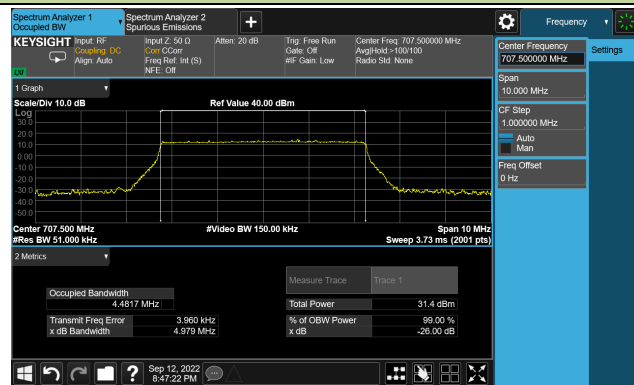
1.4MHz Channel Bandwidth



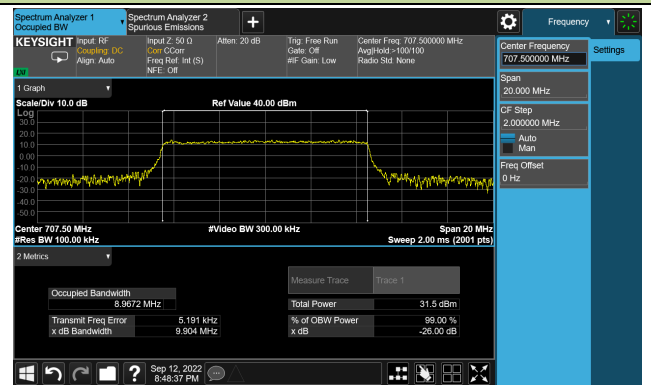
3MHz Channel Bandwidth



5MHz Channel Bandwidth

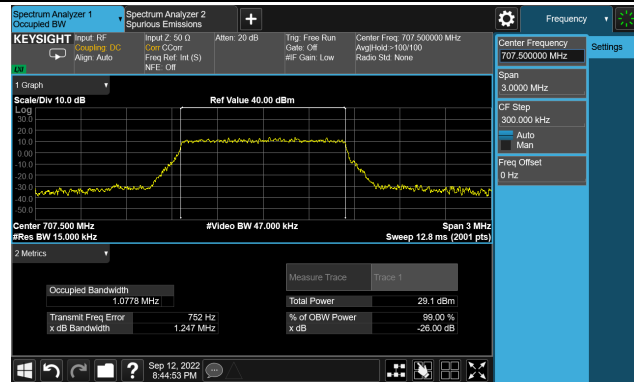


10MHz Channel Bandwidth

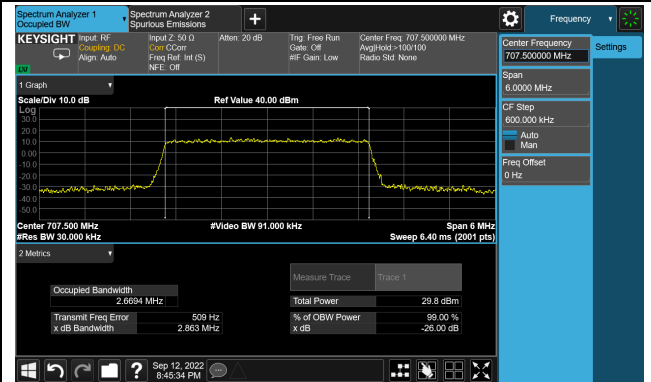


99% Bandwidth - 16QAM

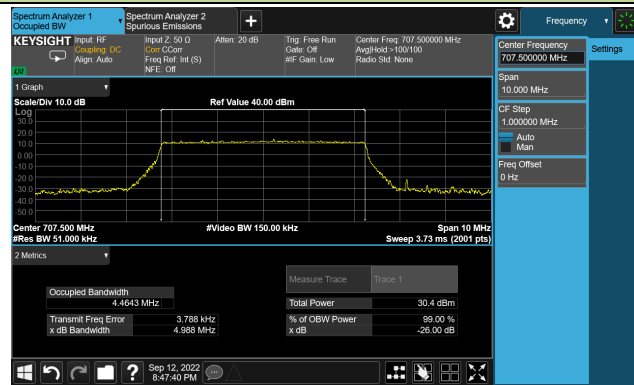
1.4MHz Channel Bandwidth



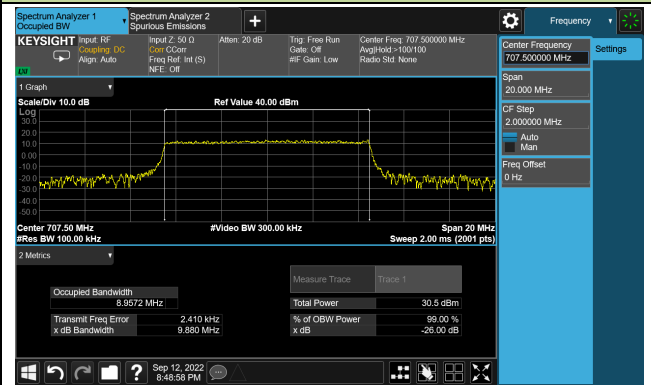
3MHz Channel Bandwidth



5MHz Channel Bandwidth

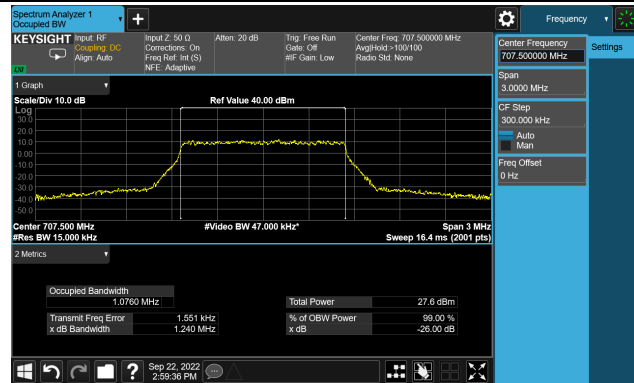


10MHz Channel Bandwidth

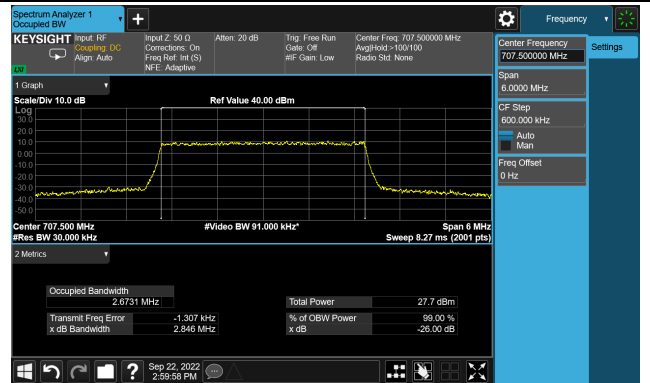


99% Bandwidth - 64QAM

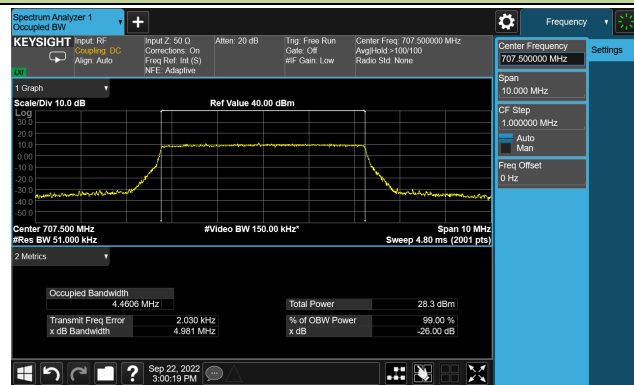
1.4MHz Channel Bandwidth



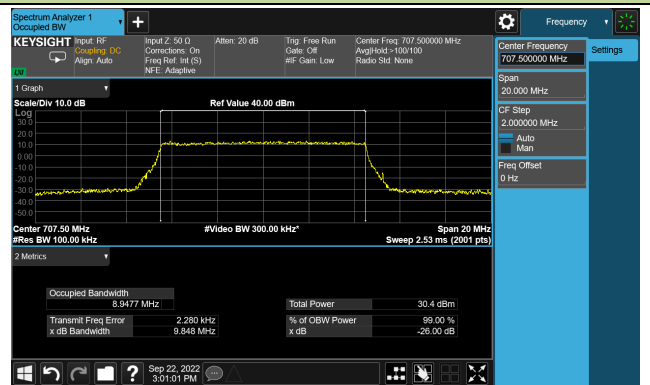
3MHz Channel Bandwidth



5MHz Channel Bandwidth



10MHz Channel Bandwidth

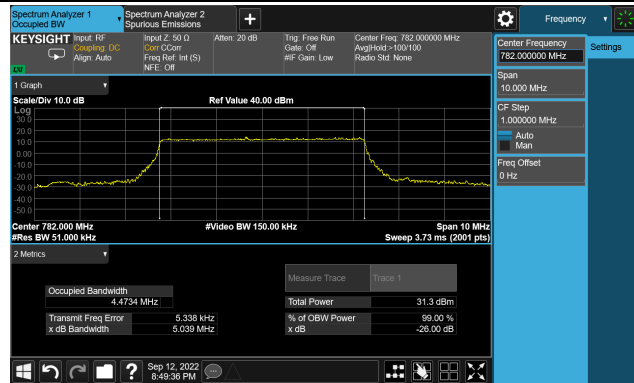


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|-----------|-------------------------|---------------|-------------|
| Test Site | SIP-SR1 | Test Engineer | Allen Zou |
| Test Date | 2022/09/12 ~ 2022/09/22 | Test Band | LTE Band 13 |

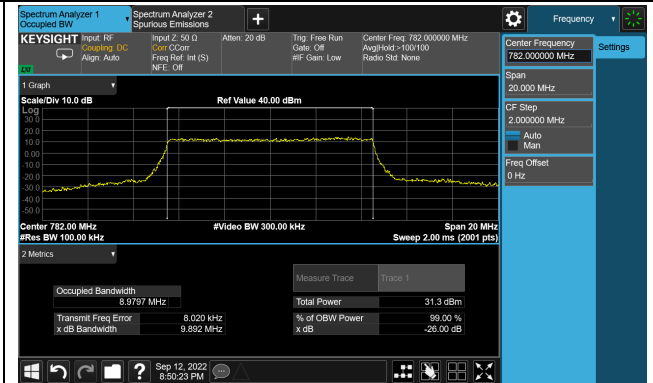
| Frequency (MHz) | Bandwidth (MHz) | Frequency (MHz) |
|-----------------|-----------------|-----------------|
| QPSK | | |
| 782.0 | 5 | 4.47 |
| | 10 | 8.98 |
| 16QAM | | |
| 782.0 | 5 | 4.49 |
| | 10 | 8.96 |
| 64QAM | | |
| 782.0 | 5 | 4.48 |
| | 10 | 8.97 |

99% Bandwidth - QPSK

5MHz Channel Bandwidth

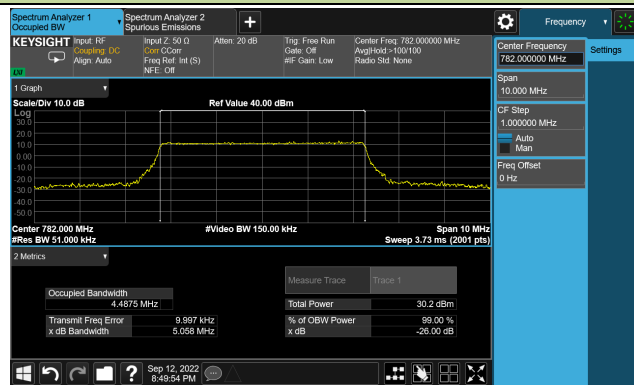


10MHz Channel Bandwidth

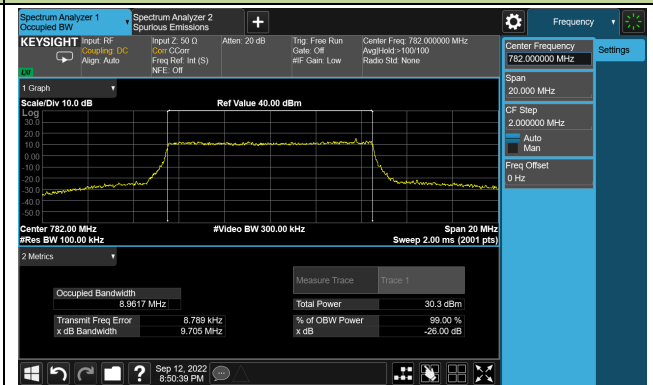


99% Bandwidth - 16QAM

5MHz Channel Bandwidth

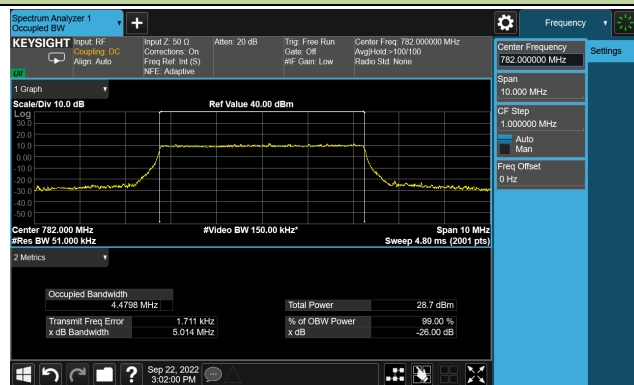


10MHz Channel Bandwidth

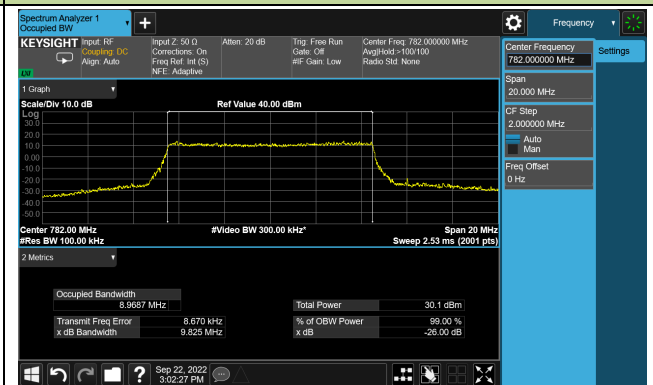


99% Bandwidth - 64QAM

5MHz Channel Bandwidth



10MHz Channel Bandwidth



| | | | |
|-----------|-------------------------|---------------|-------------|
| Test Site | SIP-SR1 | Test Engineer | Allen Zou |
| Test Date | 2022/09/12 ~ 2022/09/22 | Test Band | LTE Band 17 |

| Frequency (MHz) | Bandwidth (MHz) | Frequency (MHz) |
|-----------------|-----------------|-----------------|
| QPSK | | |
| 710.0 | 5 | 4.47 |
| | 10 | 8.94 |
| 16QAM | | |
| 710.0 | 5 | 4.48 |
| | 10 | 8.93 |
| 64QAM | | |
| 710.0 | 5 | 4.46 |
| | 10 | 8.92 |