

Appendix -

Test Data and Result for report

GZCR240900112001 (D)

(For UHF-3: 450-512MHz)



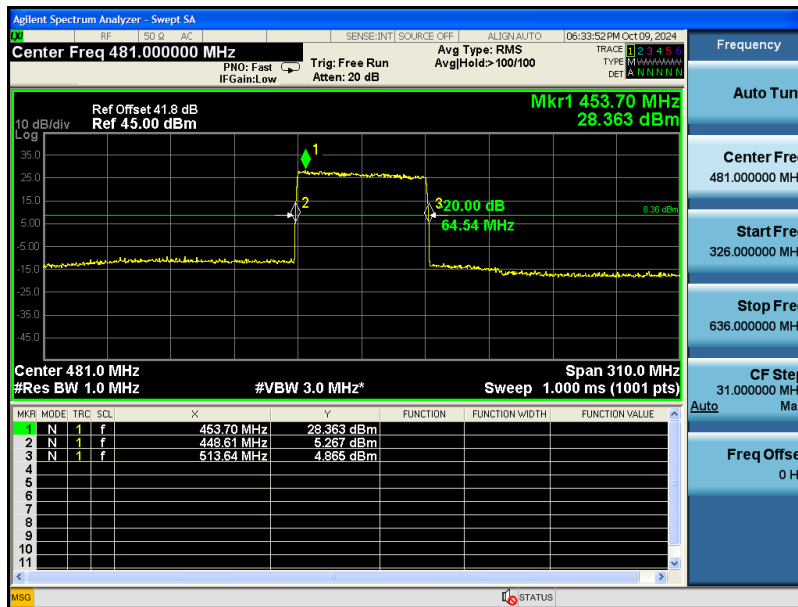
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1 Out-of-band rejection

Out-of-band rejection

DL



The peak of the frequency response f_0 is 453.7MHz.

The frequency point f_0 with the highest power level fall in the authorized band, EUT is compiled the KDB 935210 D05 Signal Booster Measurements v01r04 Out-of-band rejection verification test requirement.

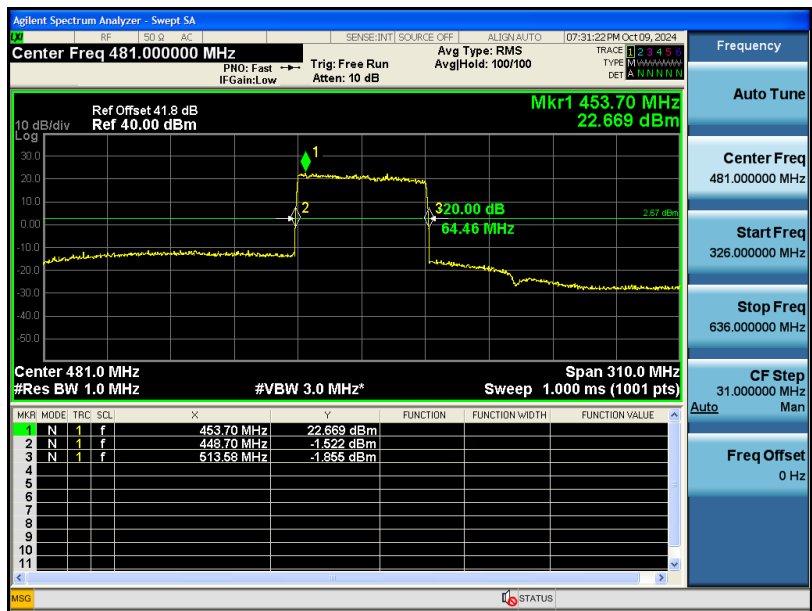


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Out-of-band rejection

UL



The peak of the frequency response f0 is 453.7MHz.

The frequency point f0 with the highest power level fall in the authorized band, EUT is compiled the KDB 935210 D05 Signal Booster Measurements v01r04 Out-of-band rejection verification test requirement.



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2 Input-versus-output signal comparison

| Occupied Bandwidth | | | | |
|--------------------|-------------|--------------|---------------|---------|
| Test Path | Test Signal | Test Channel | Signal Level | Verdict |
| DL | FM | LCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | | MCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | | HCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | DMR | LCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | | MCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | | HCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | C4FM | LCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | | MCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | | HCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | H-DQPSK | LCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | | MCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | | HCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |

Remark:
Compare the spectral plot of the input signal to the output signal affirm that there is no change in the occupied bandwidth of the retransmitted signals. The test result complies with the requirement.

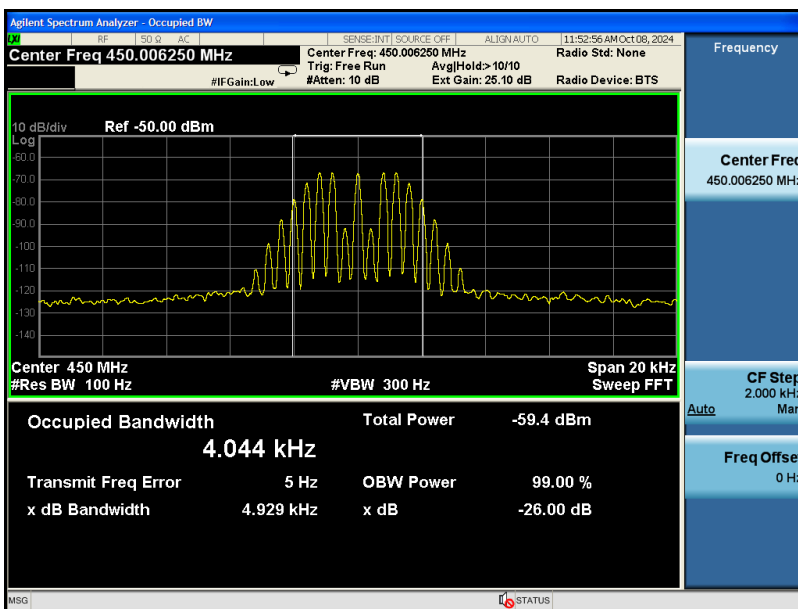
| Occupied Bandwidth | | | | | |
|--------------------|---|--------------|---------------|---------|--|
| Test Path | Test Signal | Test Channel | Signal Level | Verdict | |
| DL | TETRA | LCH | Pre-AGC | PASS | |
| | | | 3dB above AGC | PASS | |
| | | MCH | Pre-AGC | PASS | |
| | | | 3dB above AGC | PASS | |
| | | HCH | Pre-AGC | PASS | |
| | | | 3dB above AGC | PASS | |
| UL | FM | LCH | Pre-AGC | PASS | |
| | | | 3dB above AGC | PASS | |
| | | MCH | Pre-AGC | PASS | |
| | | | 3dB above AGC | PASS | |
| | | HCH | Pre-AGC | PASS | |
| | | | 3dB above AGC | PASS | |
| | DMR | LCH | Pre-AGC | PASS | |
| | | | 3dB above AGC | PASS | |
| | | MCH | Pre-AGC | PASS | |
| | | | 3dB above AGC | PASS | |
| | | HCH | Pre-AGC | PASS | |
| | | | 3dB above AGC | PASS | |
| | C4FM | LCH | Pre-AGC | PASS | |
| | | | 3dB above AGC | PASS | |
| | | MCH | Pre-AGC | PASS | |
| | | | 3dB above AGC | PASS | |
| | | HCH | Pre-AGC | PASS | |
| | | | 3dB above AGC | PASS | |
| | Remark: Compare the spectral plot of the input signal to the output signal affirm that there is no change in the occupied bandwidth of the retransmitted signals. The test result complies with the requirement. | | | | |

| Occupied Bandwidth | | | | |
|--------------------|-------------|--------------|---------------|---------|
| Test Path | Test Signal | Test Channel | Signal Level | Verdict |
| UL | H-DQPSK | LCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | | MCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | | HCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | TETRA | LCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | | MCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |
| | | HCH | Pre-AGC | PASS |
| | | | 3dB above AGC | PASS |

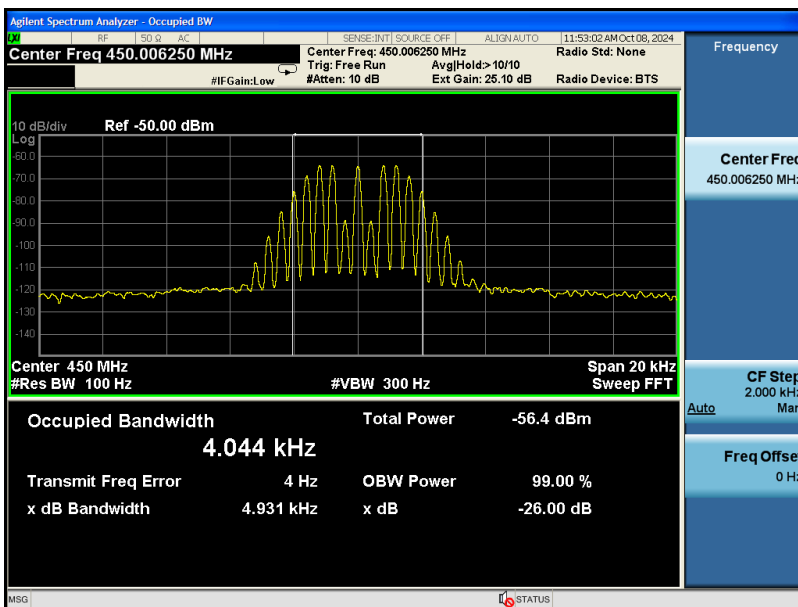
Remark:
Compare the spectral plot of the input signal to the output signal affirm that there is no change in the occupied bandwidth of the retransmitted signals. The test result complies with the requirement.

99% OBW

DL_FM_LCH_Input_Pre-AGC



DL_FM_LCH_Input_3dB above AGC



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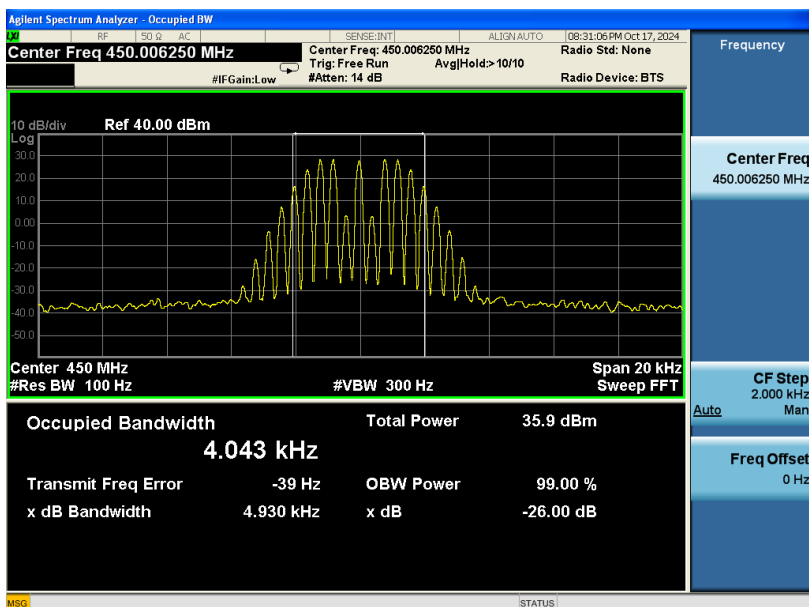
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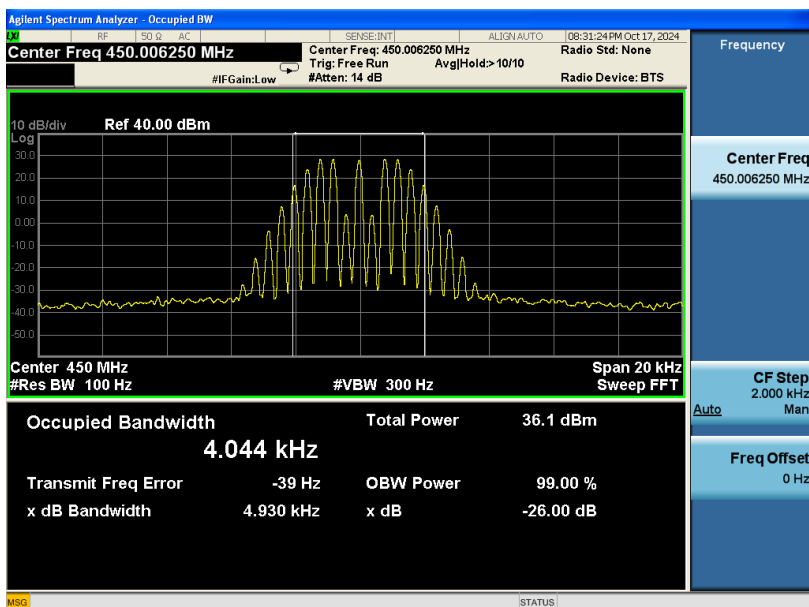
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t (86-20) 82155555 sgs.china@sgs.com

99% OBW

DL_FM_LCH_Output_Pre-AGC

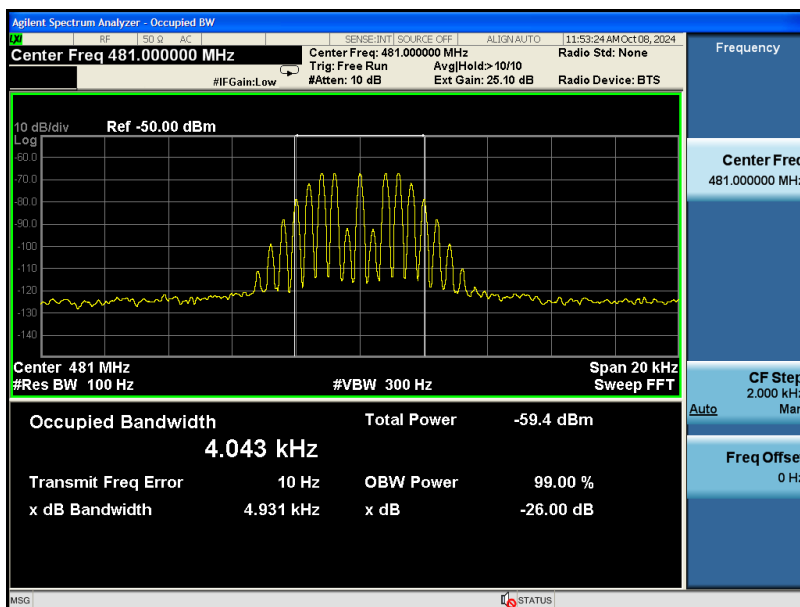


DL_FM_LCH_Output_3dB above AGC

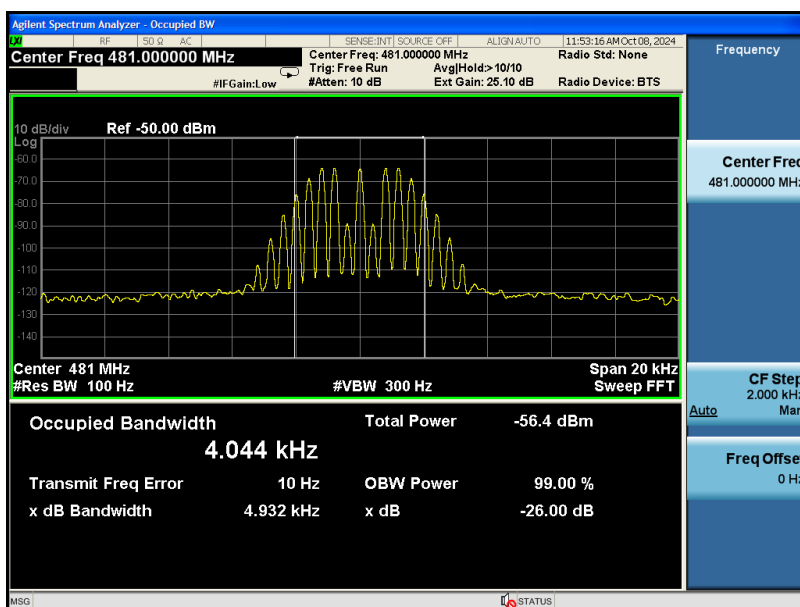


99% OBW

DL_FM_MCH_Input_Pre-AGC

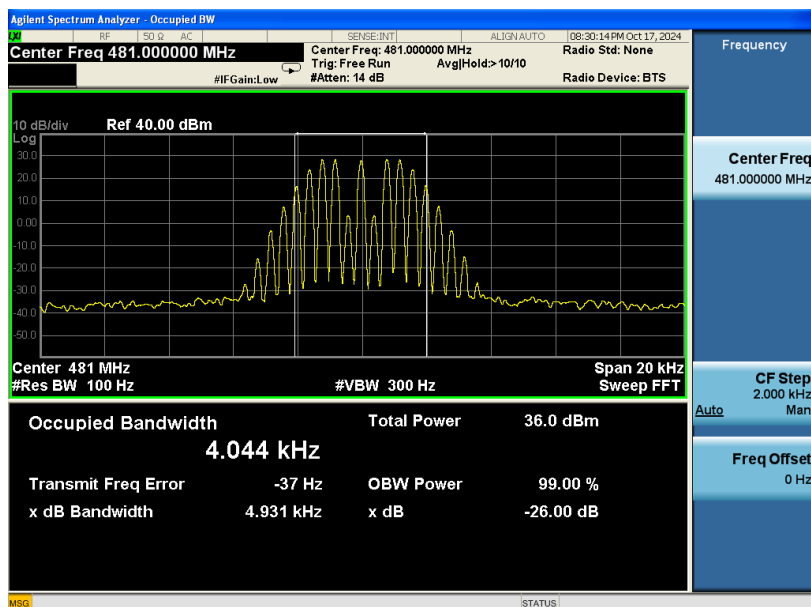


DL_FM_MCH_Input_3dB above AGC

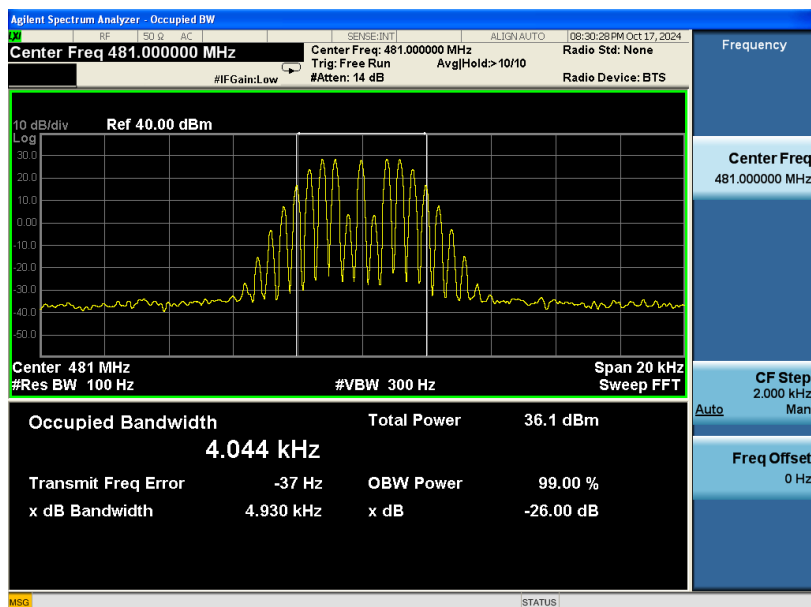


99% OBW

DL_FM_MCH_Output_Pre-AGC

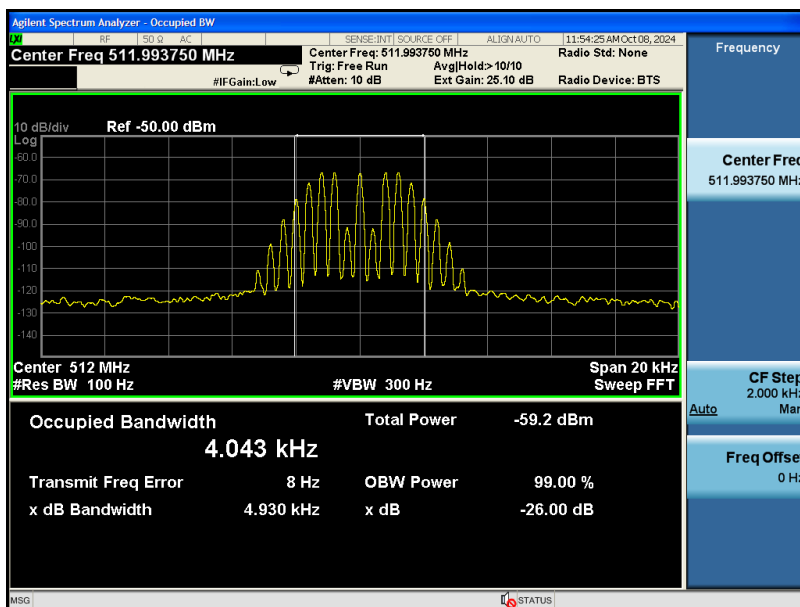


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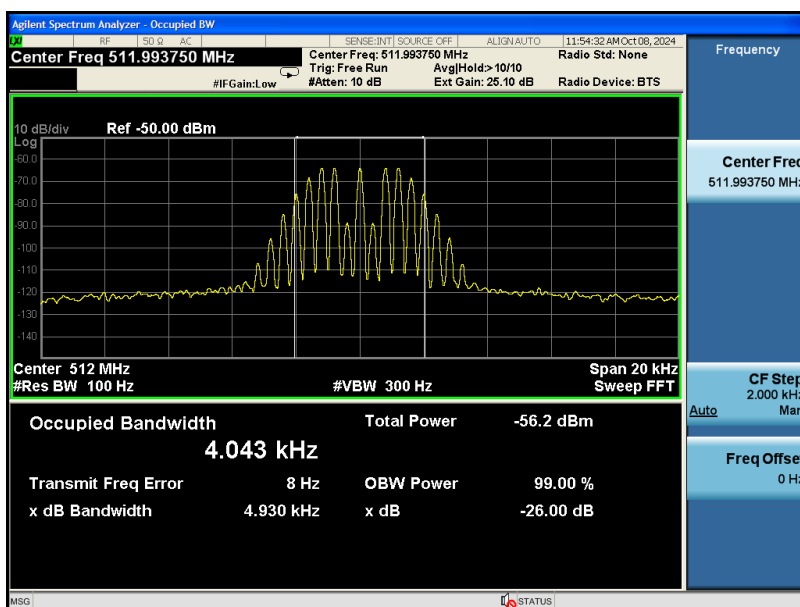


99% OBW

DL_FM_HCH_Input_Pre-AGC

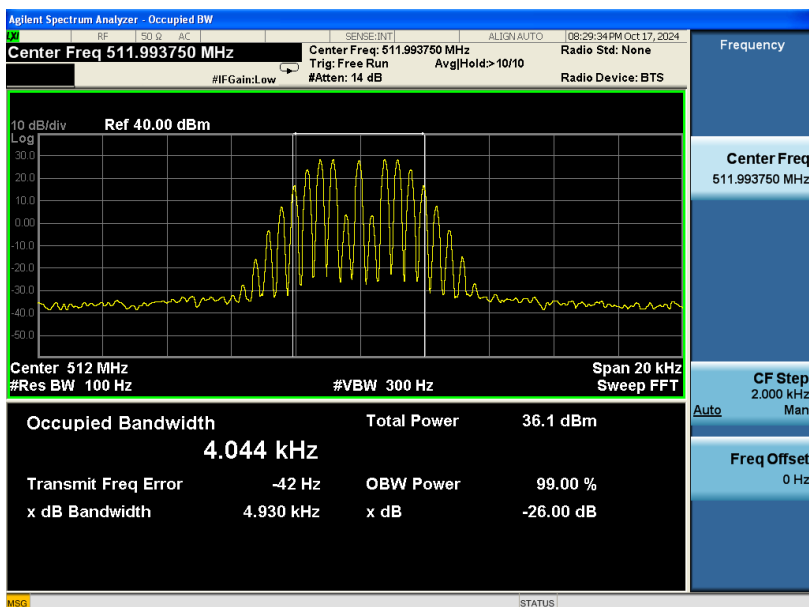


DL_FM_HCH_Input_3dB above AGC

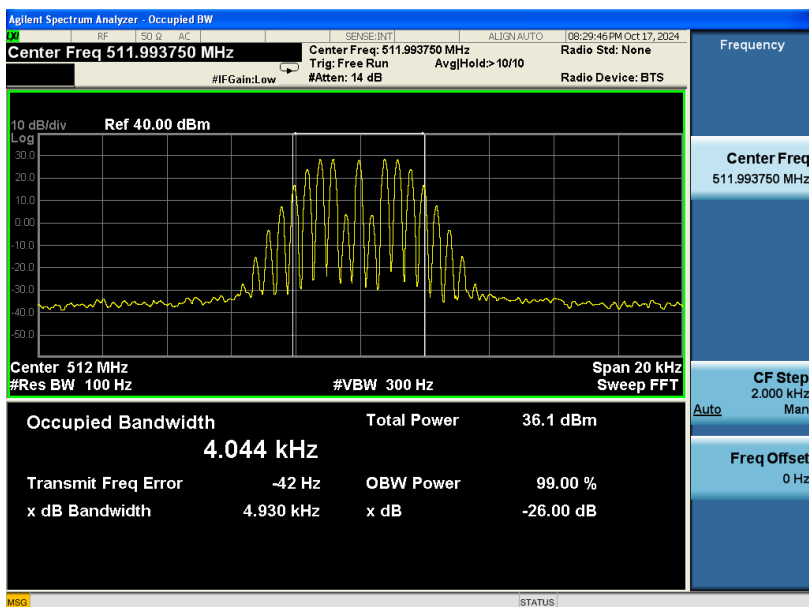


99% OBW

DL_FM_HCH_Output_Pre-AGC

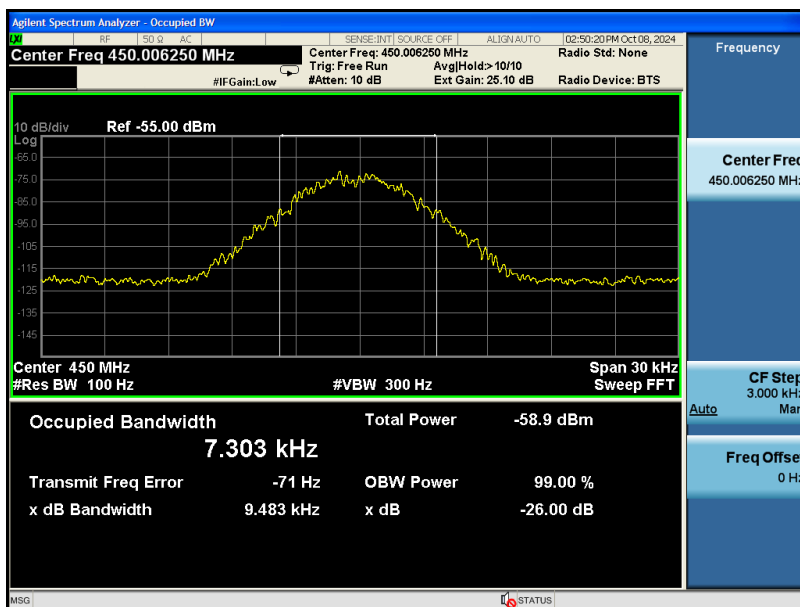


DL_FM_HCH_Output_3dB above AGC

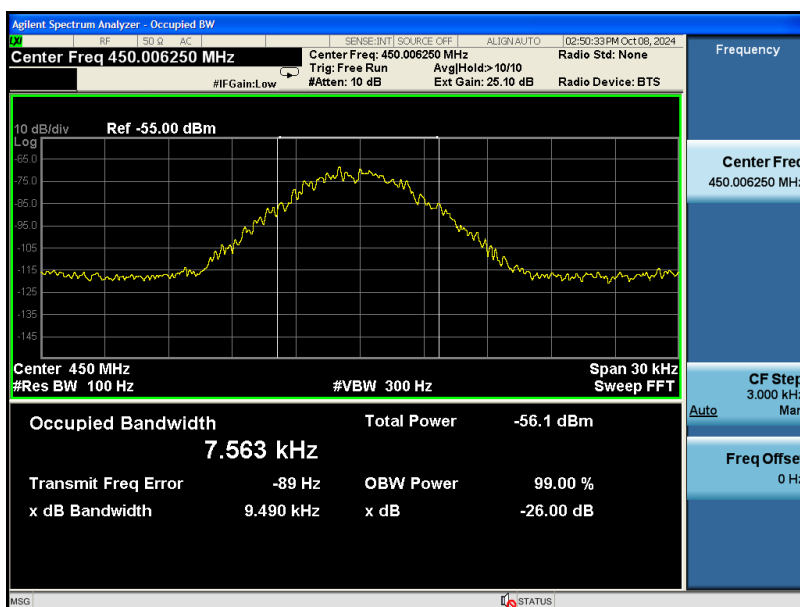


99% OBW

DL_DMR_LCH_Input_Pre-AGC

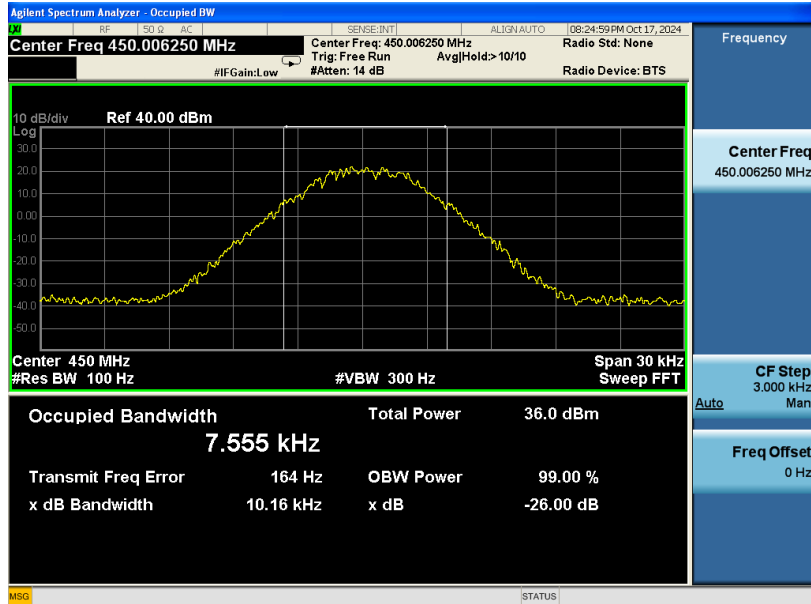


DL_DMR_LCH_Input_3dB above AGC

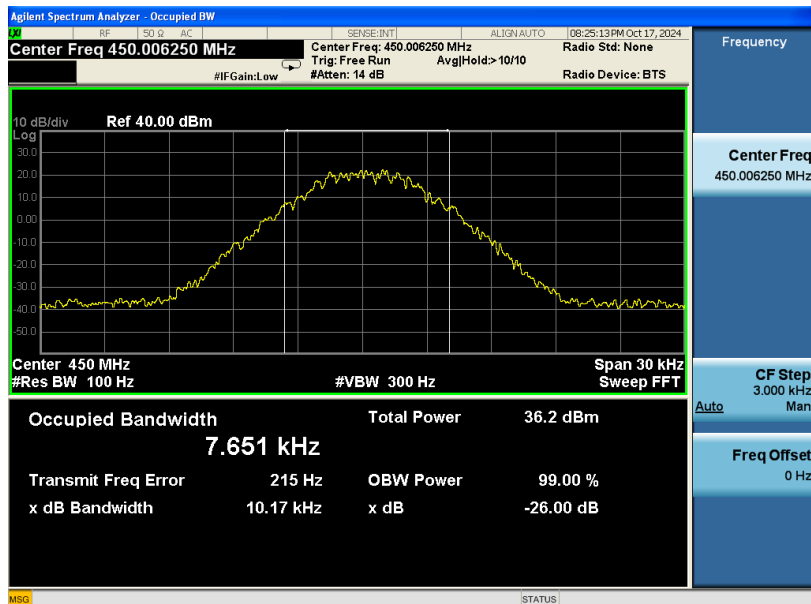


99% OBW

DL_DMR_LCH_Output_Pre-AGC

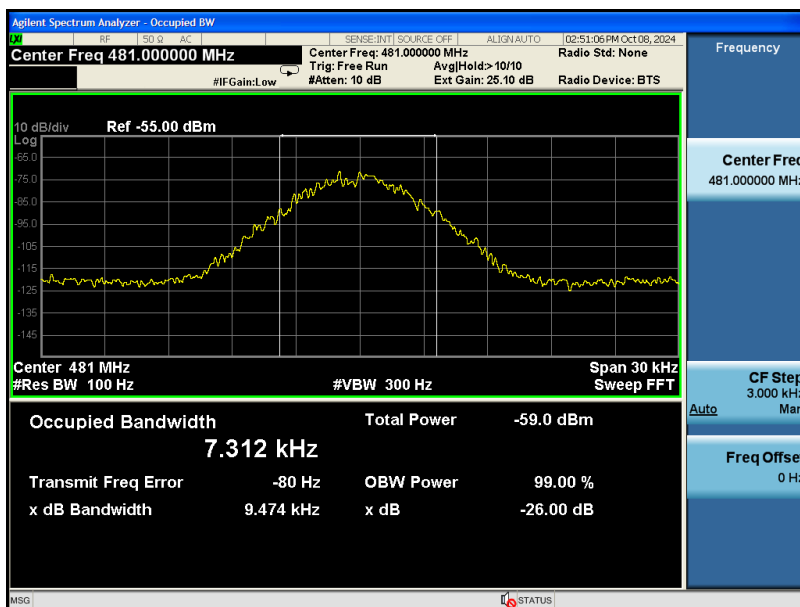


DL_DMR_LCH_Output_3dB above AGC

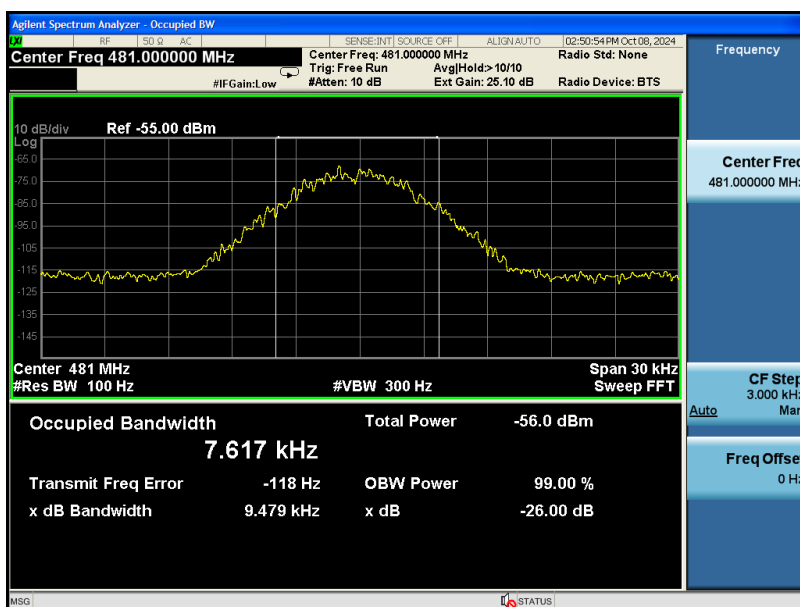


99% OBW

DL_DMR_MCH_Input_Pre-AGC

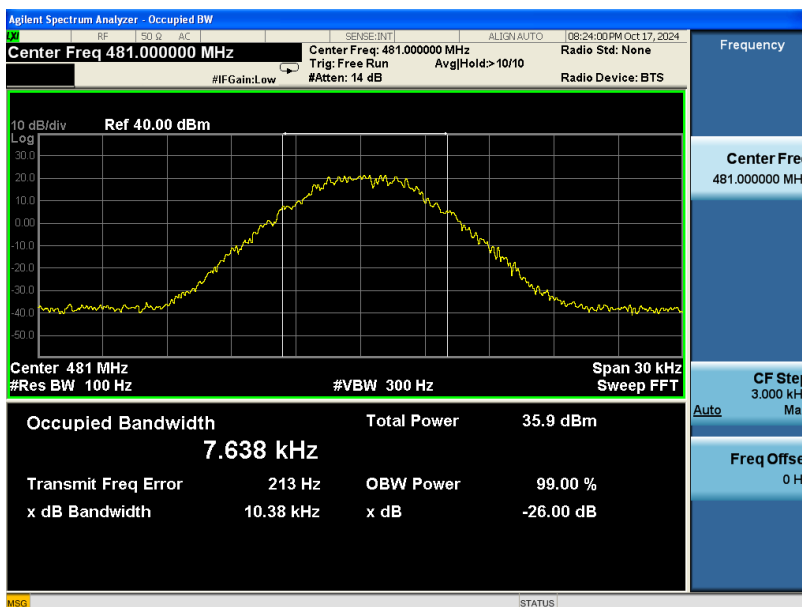


DL_DMR_MCH_Input_3dB above AGC

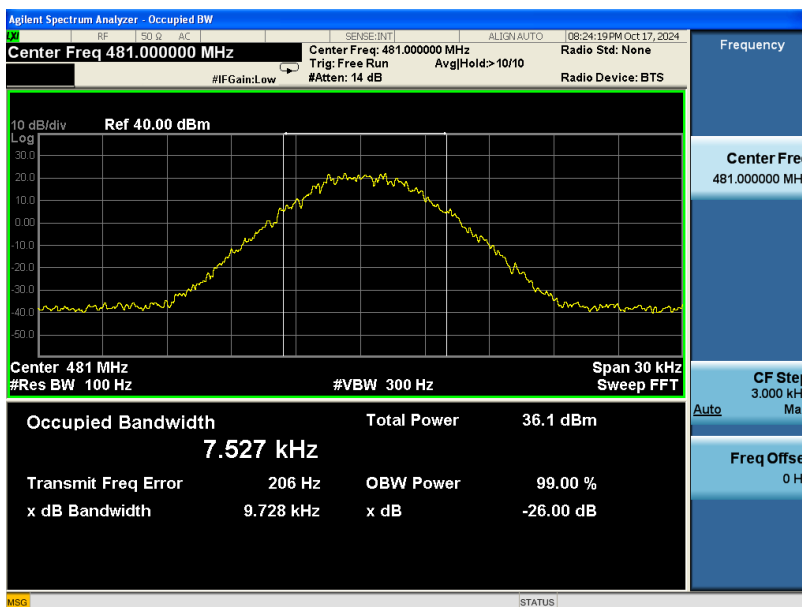


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DL_DMR_MCH_Output_Pre-AGC

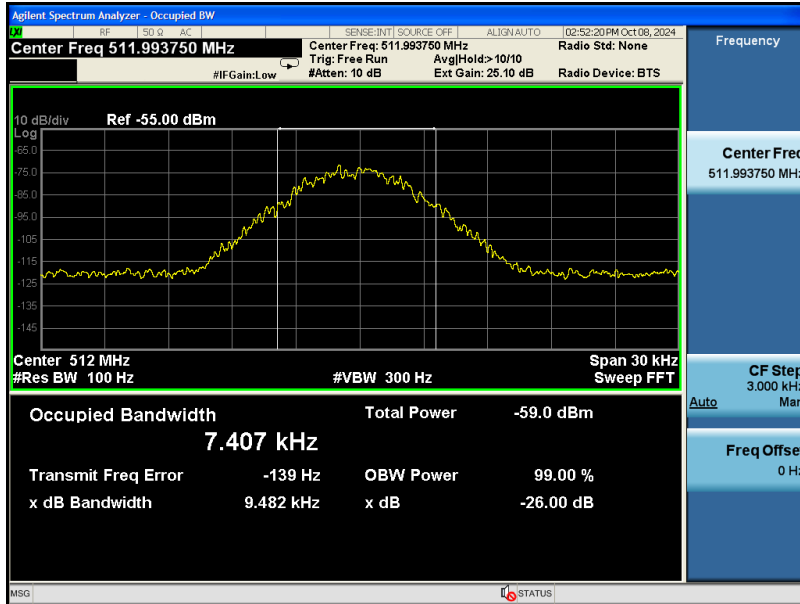


DL_DMR_MCH_Output_3dB above AGC

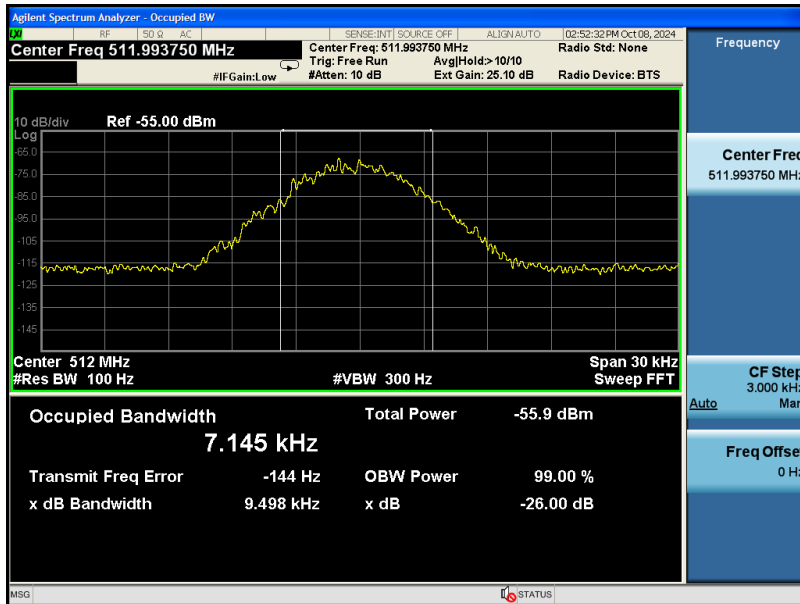


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DL_DMR_HCH_Input_Pre-AGC

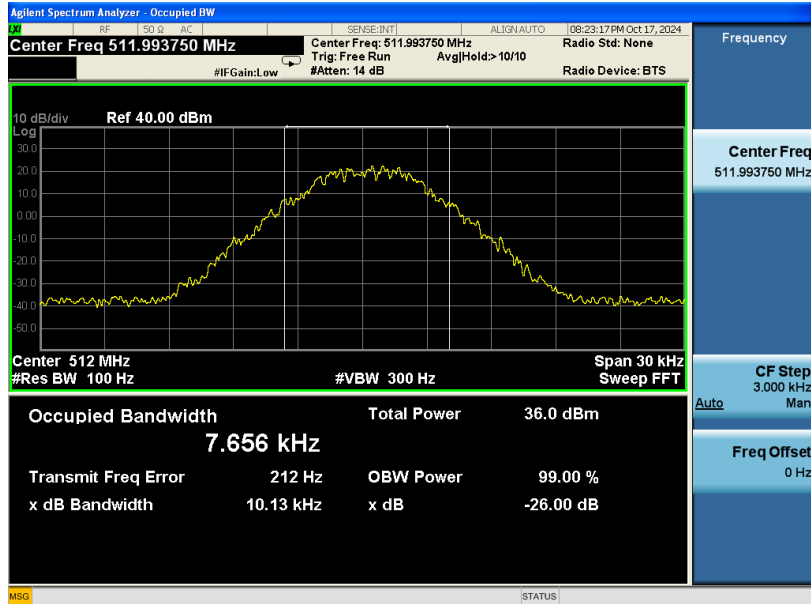


DL_DMR_HCH_Input_3dB above AGC

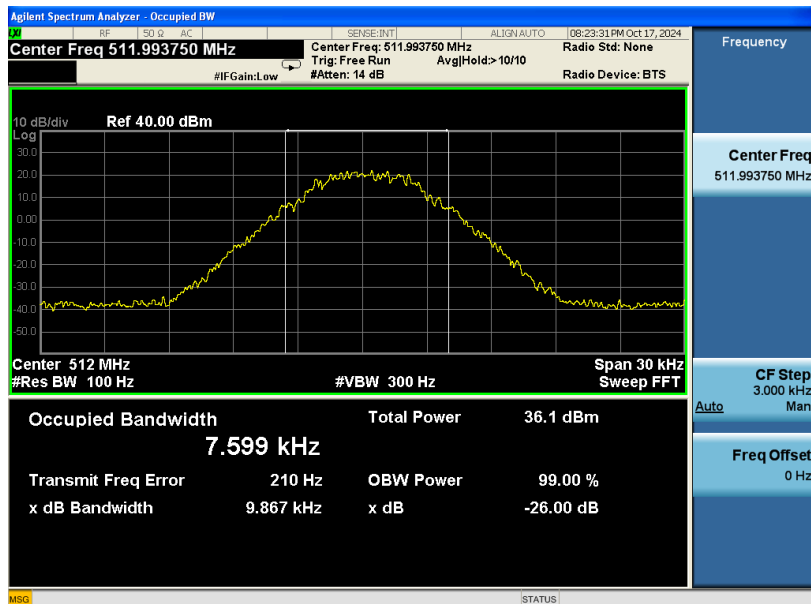


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DL_DMR_HCH_Output_Pre-AGC

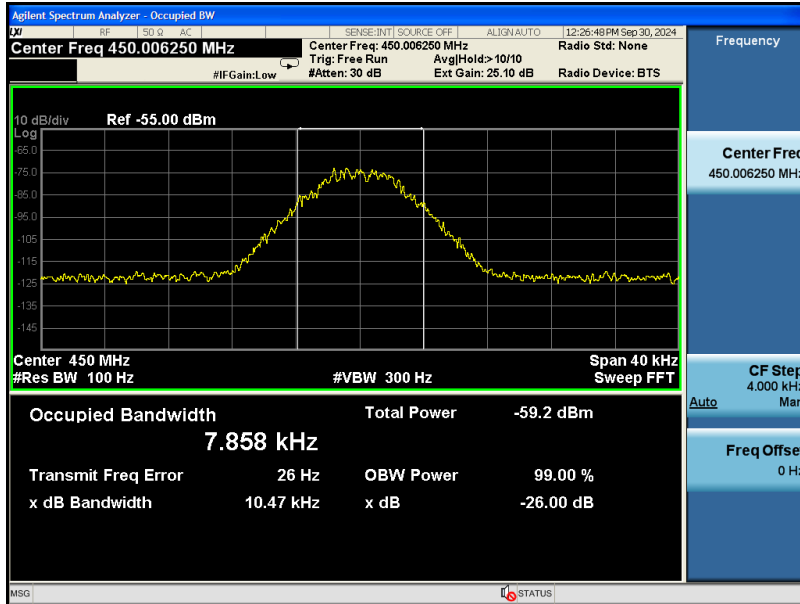


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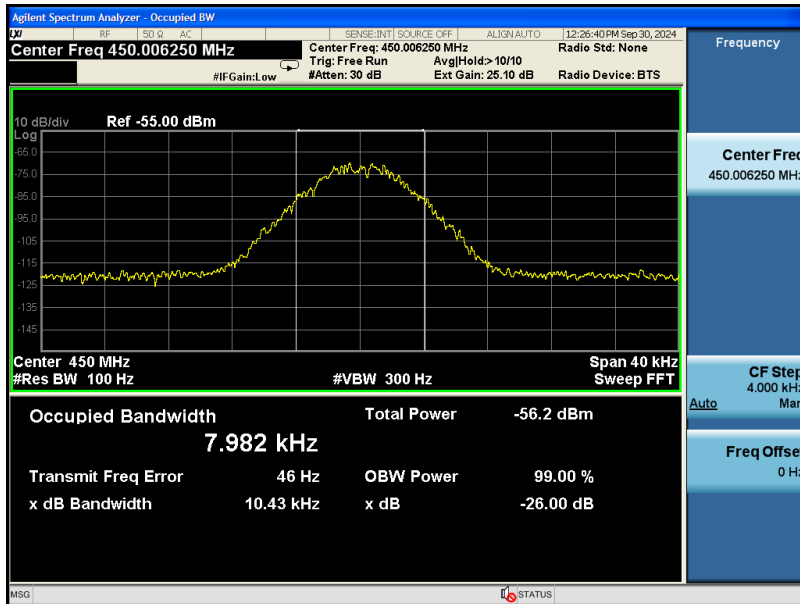


99% OBW

DL_C4FM_LCH_Input_Pre-AGC

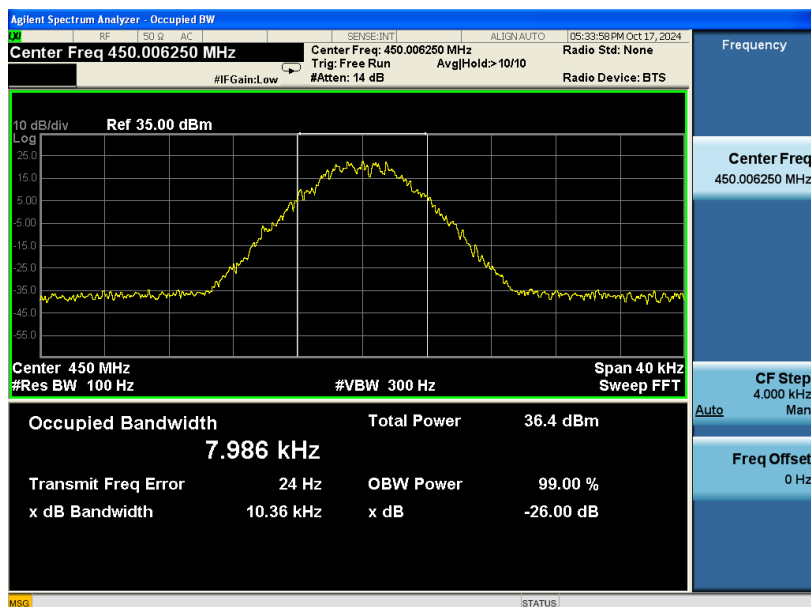


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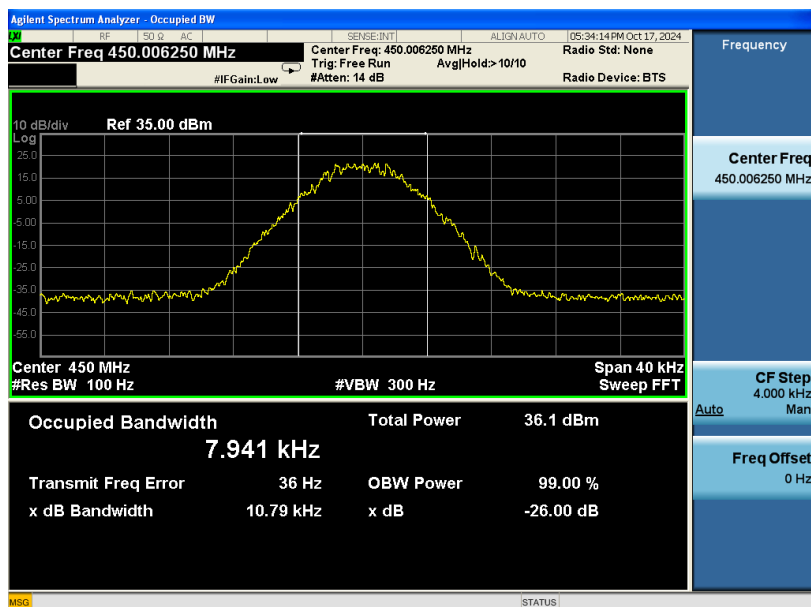


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DL_C4FM_LCH_Output_Pre-AGC

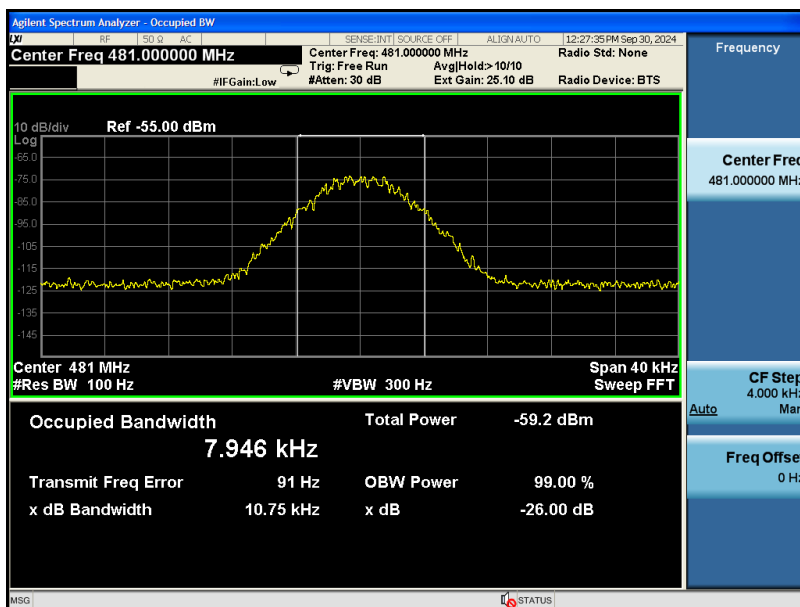


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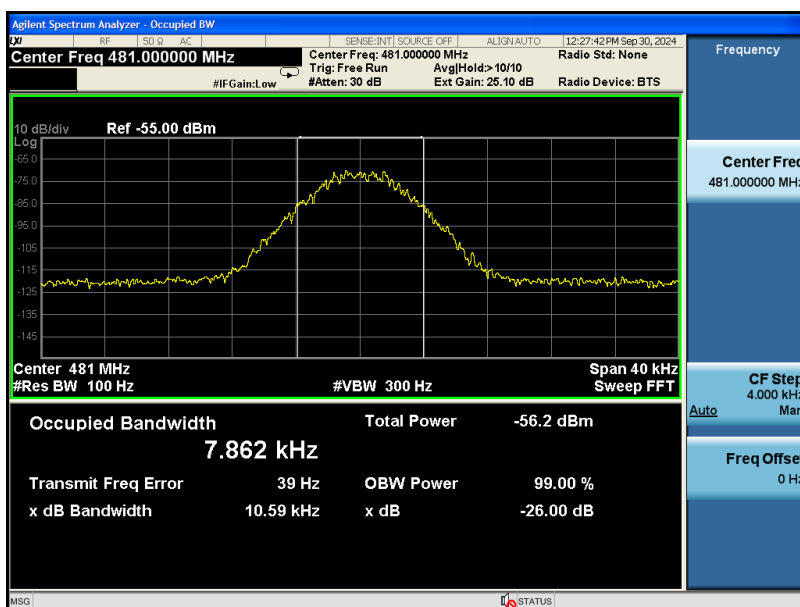


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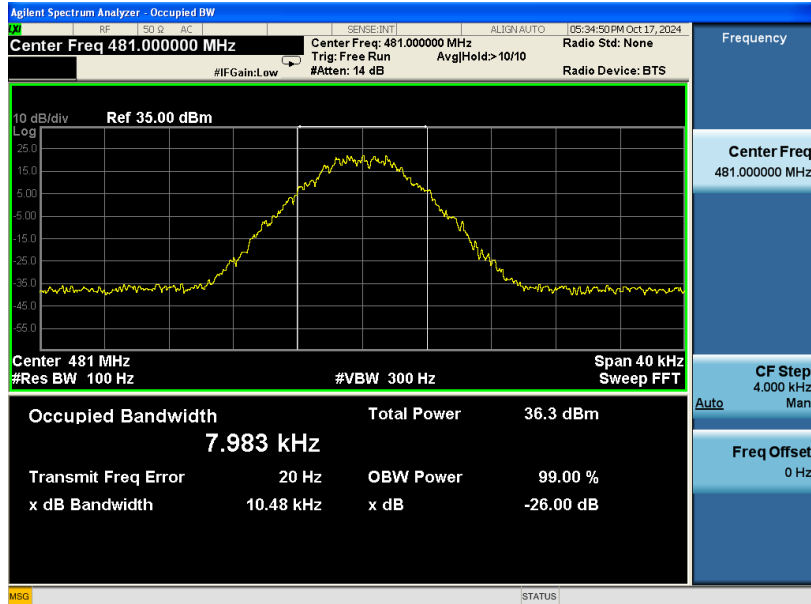


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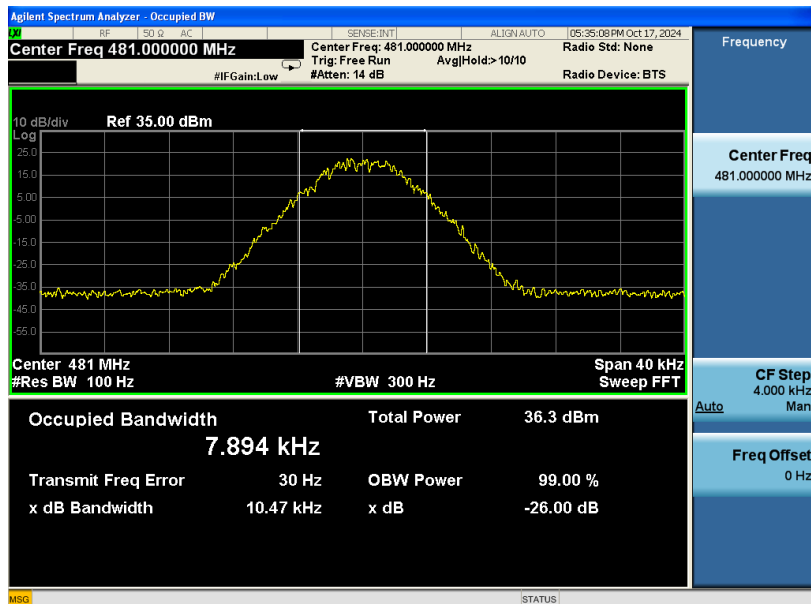


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DL_C4FM_MCH_Output_Pre-AGC

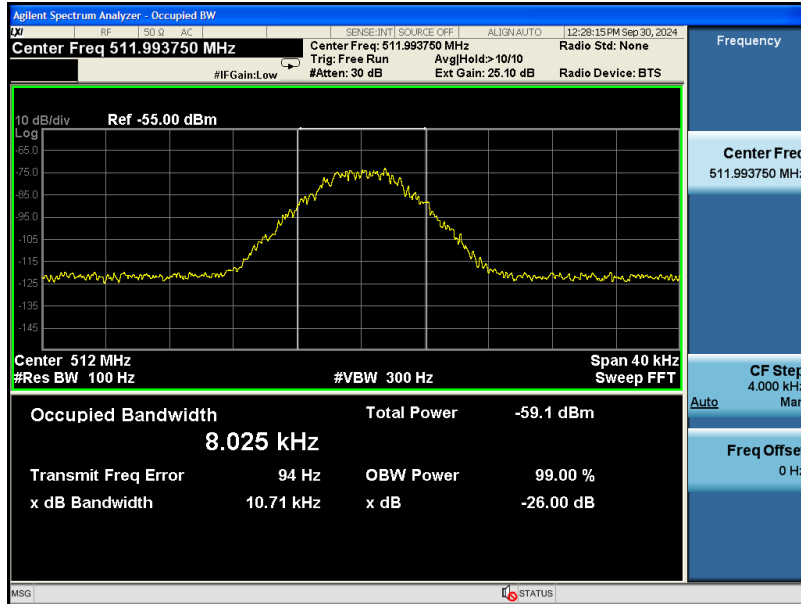


DL_C4FM_MCH_Output_3dB above AGC

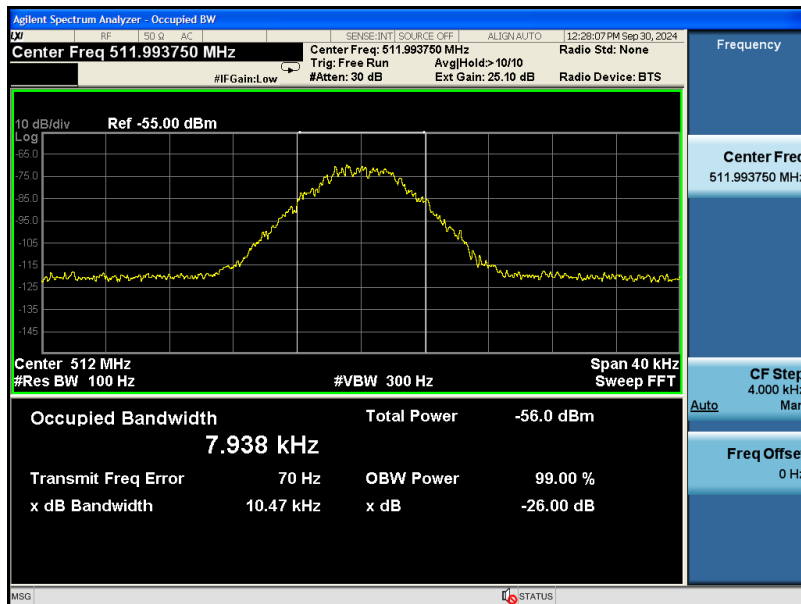


99% OBW

DL_C4FM_HCH_Input_Pre-AGC



DL_C4FM_HCH_Input_3dB above AGC

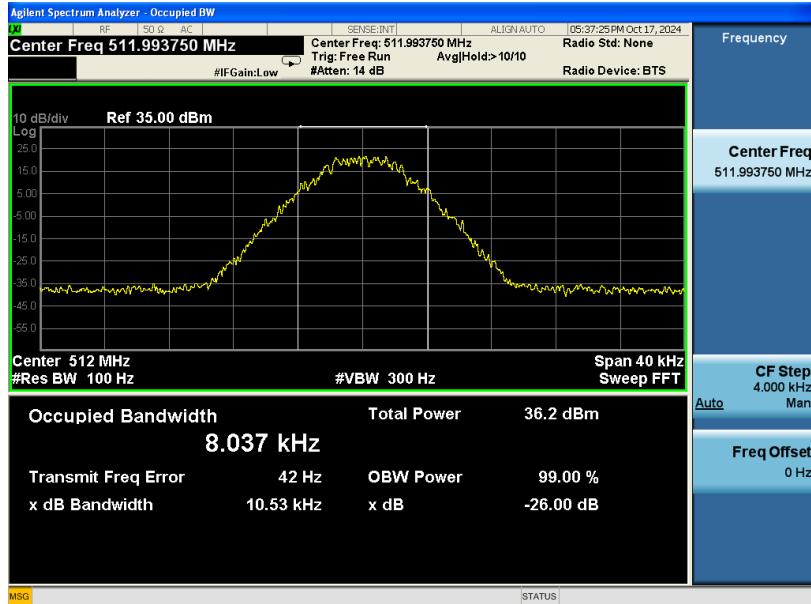


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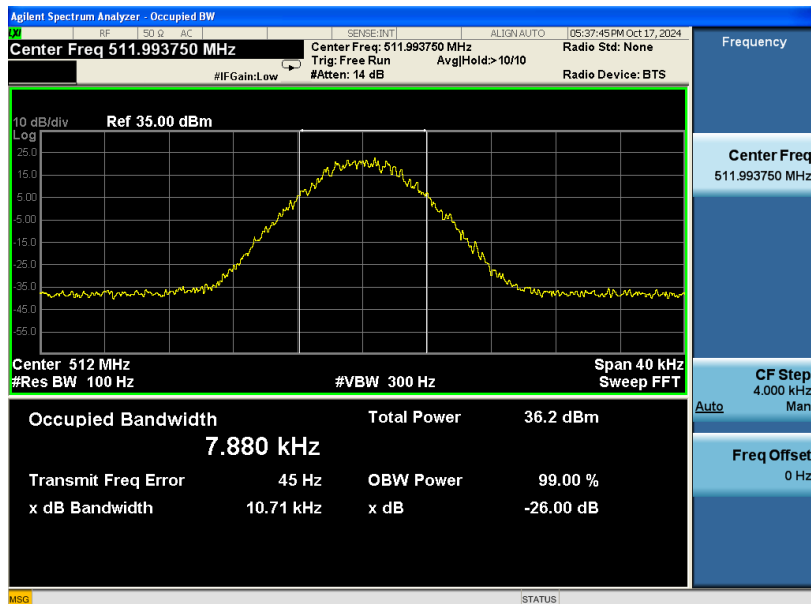
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99% OBW

DL_C4FM_HCH_Output_Pre-AGC

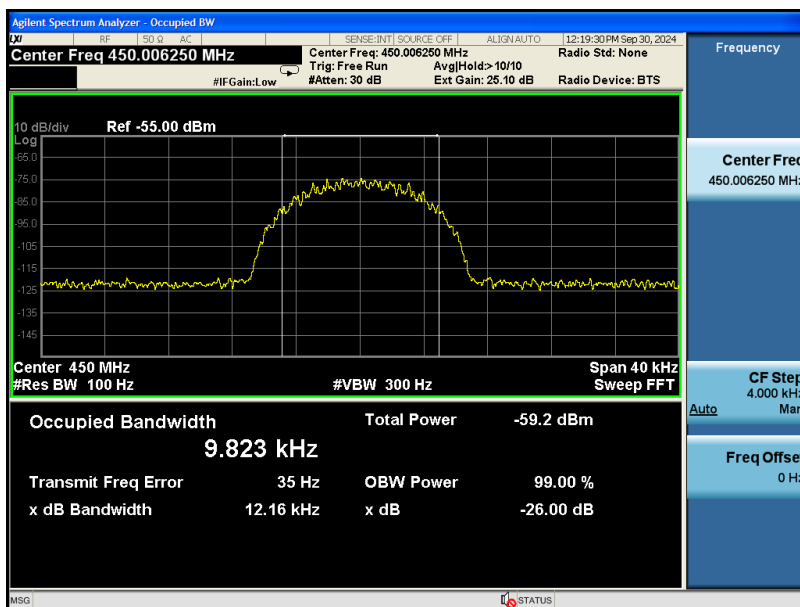


DL_C4FM_HCH_Output_3dB above AGC

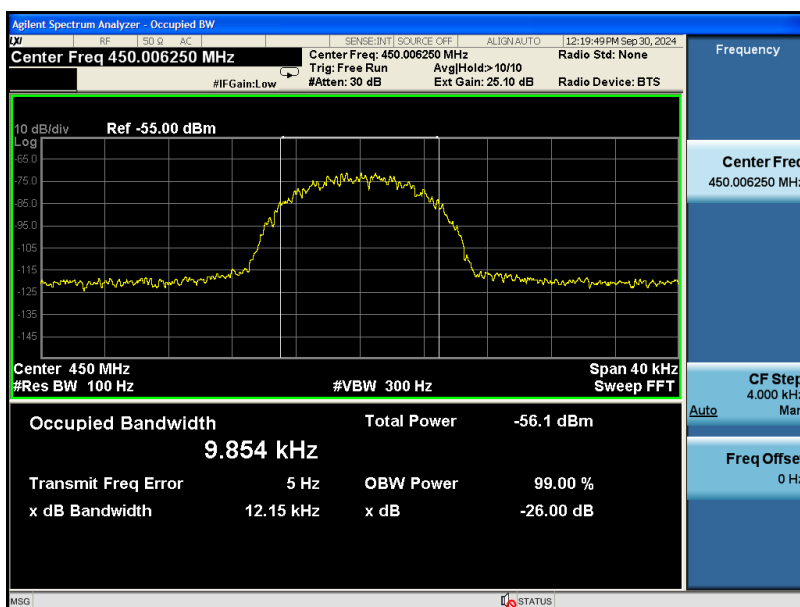


99% OBW

DL_H-DQPSK_LCH_Input_Pre-AGC

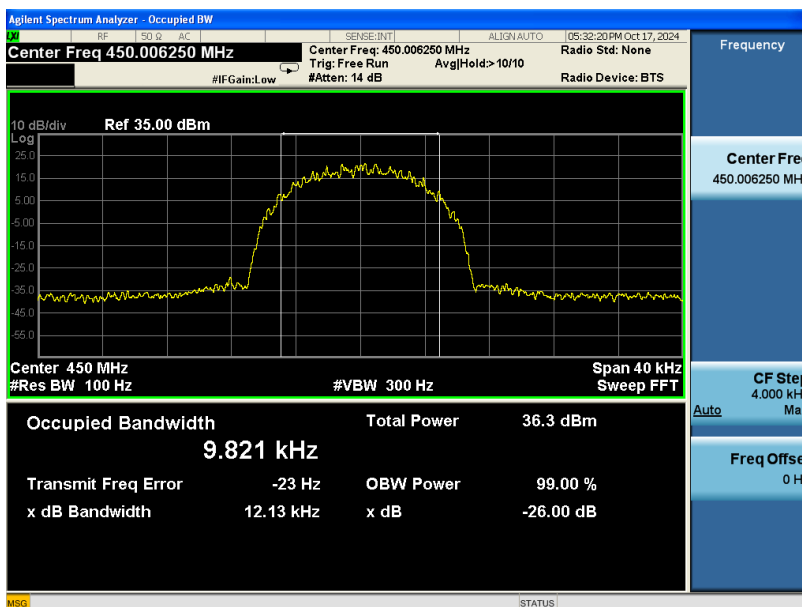


DL_H-DQPSK_LCH_Input_3dB above AGC

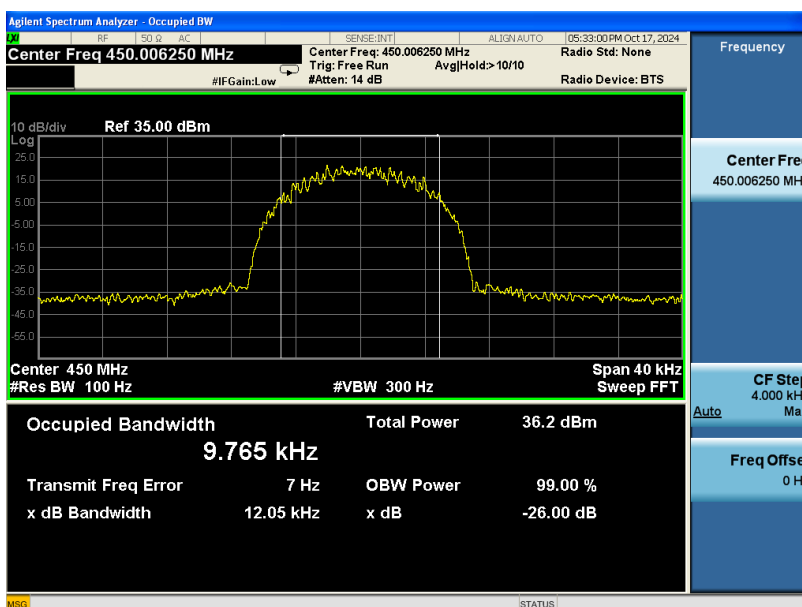


99% OBW

DL_H-DQPSK_LCH_Output_Pre-AGC

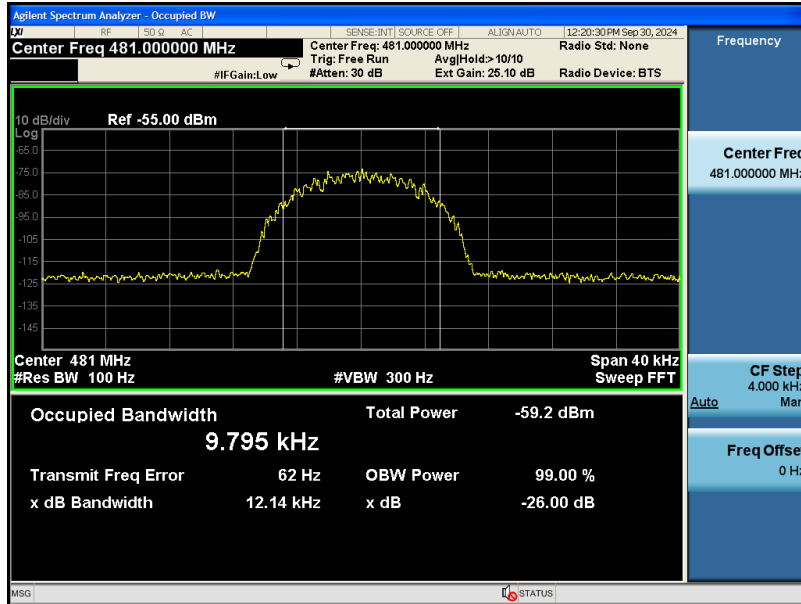


DL_H-DQPSK_LCH_Output_3dB above AGC



99% OBW

DL_H-DQPSK_MCH_Input_Pre-AGC

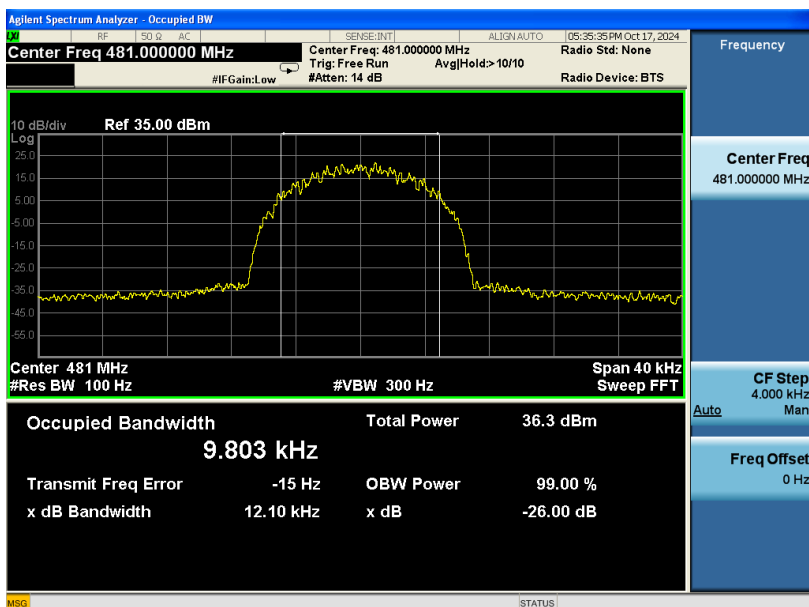


DL_H-DQPSK_MCH_Input_3dB above AGC

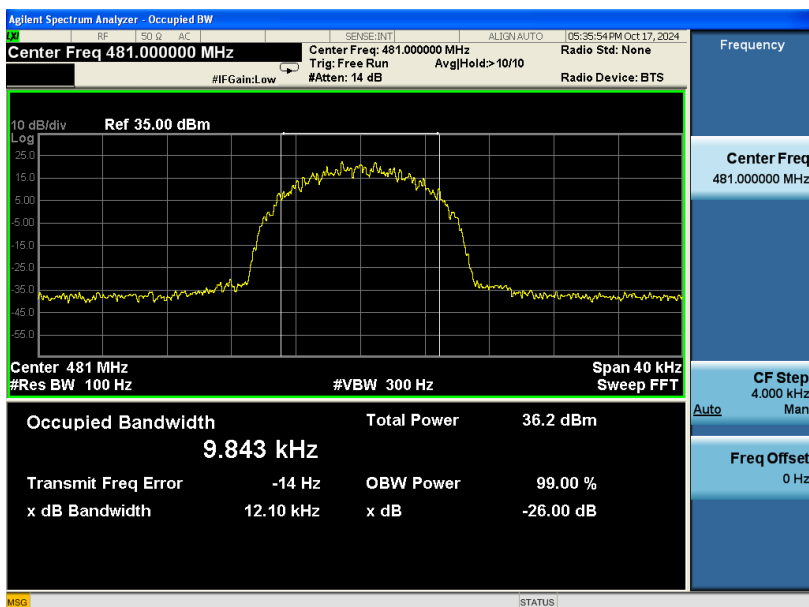


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DL_H-DQPSK_MCH_Output_Pre-AGC



DL_H-DQPSK_MCH_Output_3dB above AGC

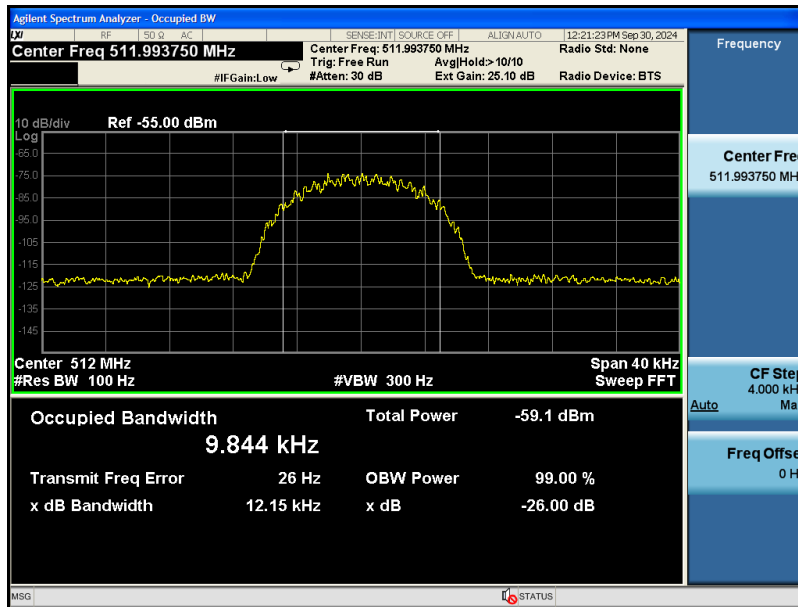


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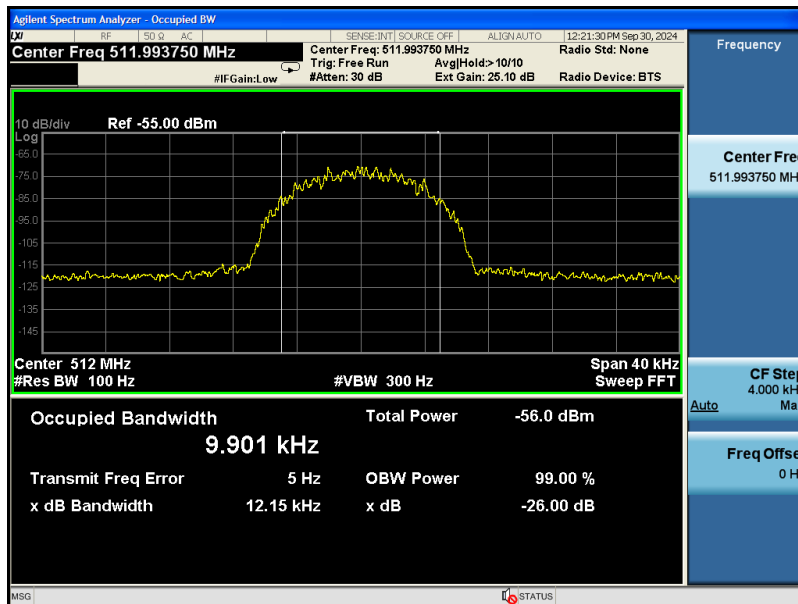
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DL_H-DQPSK_HCH_Input_Pre-AGC

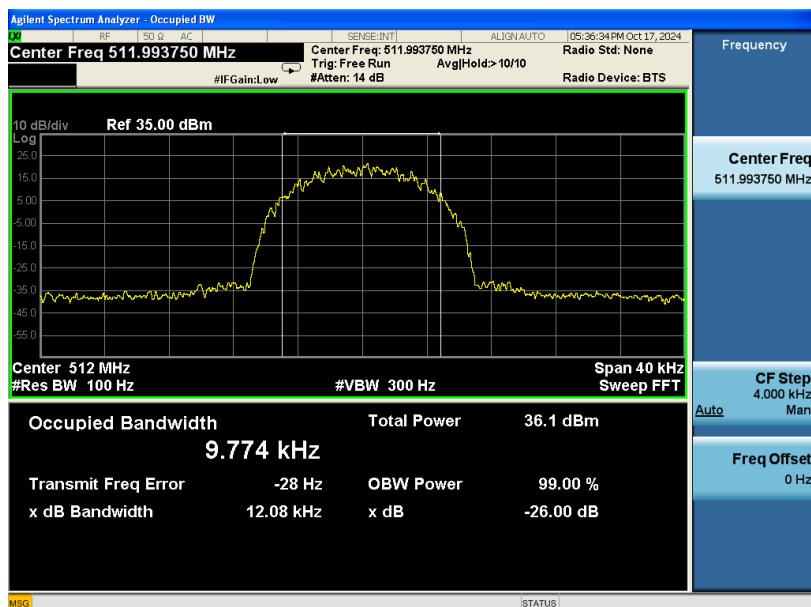


DL_H-DQPSK_HCH_Input_3dB above AGC

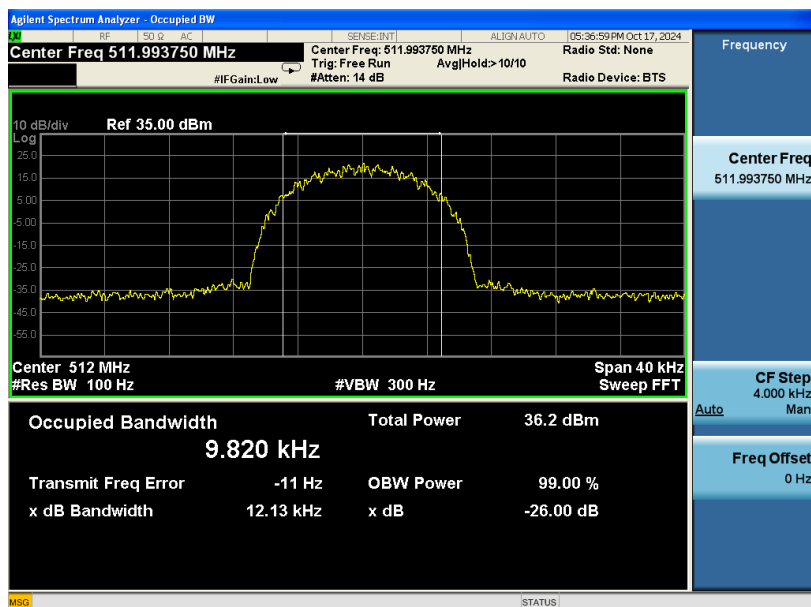


99% OBW

DL_H-DQPSK_HCH_Output_Pre-AGC

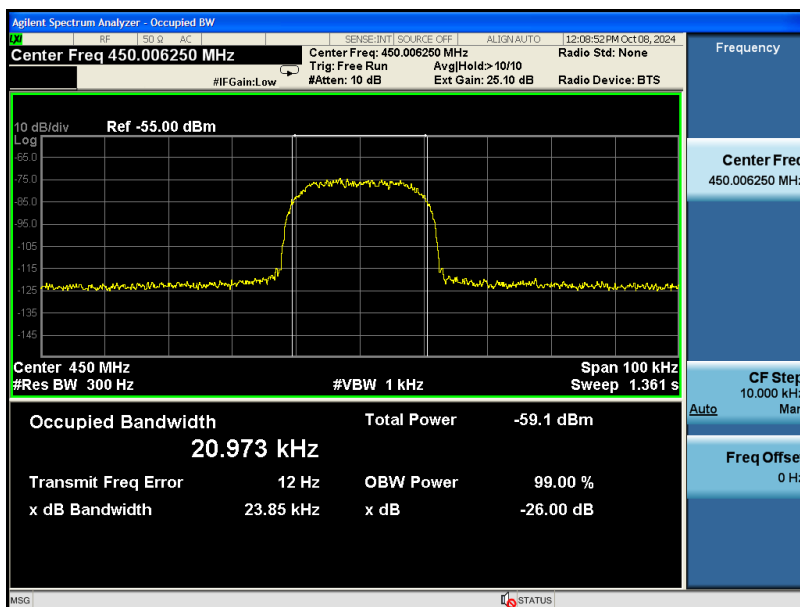


DL_H-DQPSK_HCH_Output_3dB above AGC

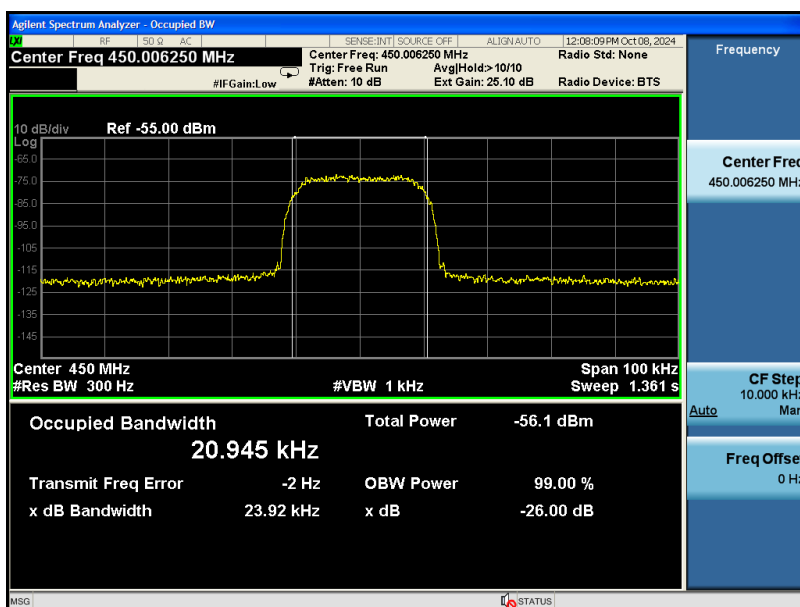


99% OBW

DL_TETRA_LCH_Input_Pre-AGC

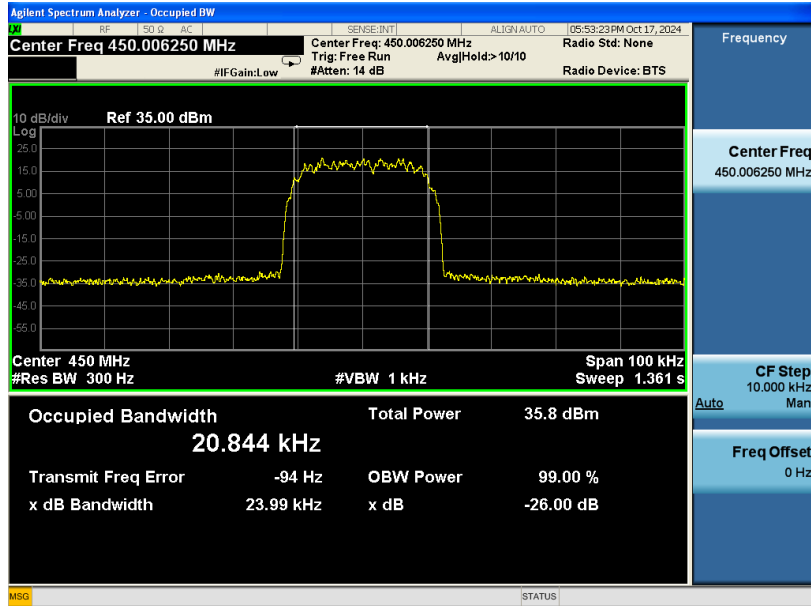


DL_TETRA_LCH_Input_3dB above AGC

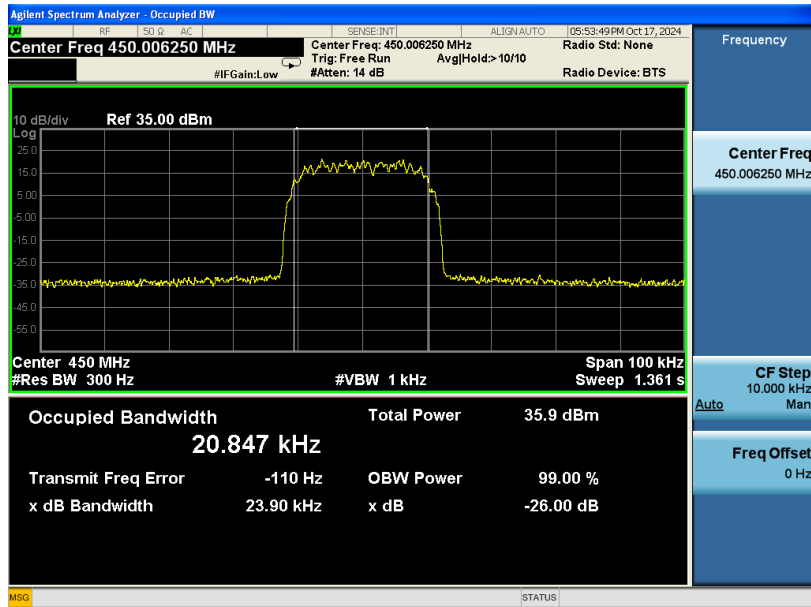


99% OBW

DL_TETRA_LCH_Output_Pre-AGC

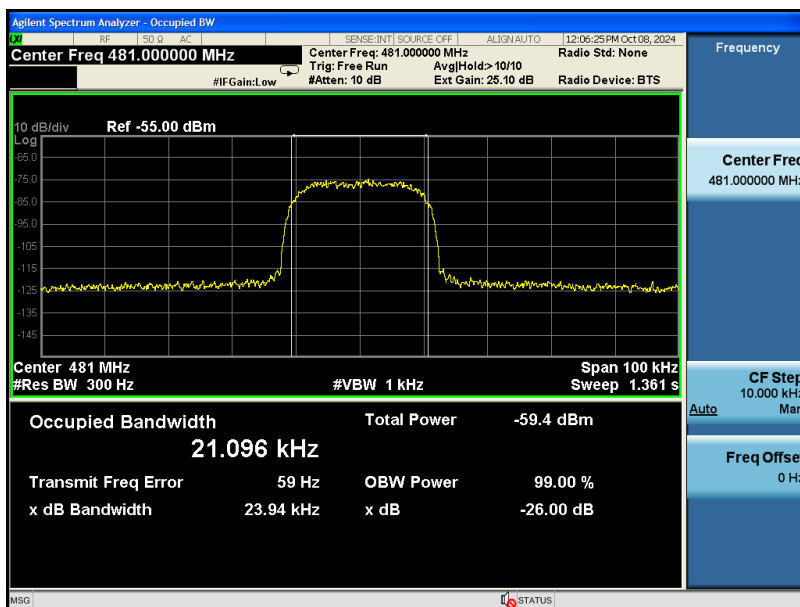


DL_TETRA_LCH_Output_3dB above AGC

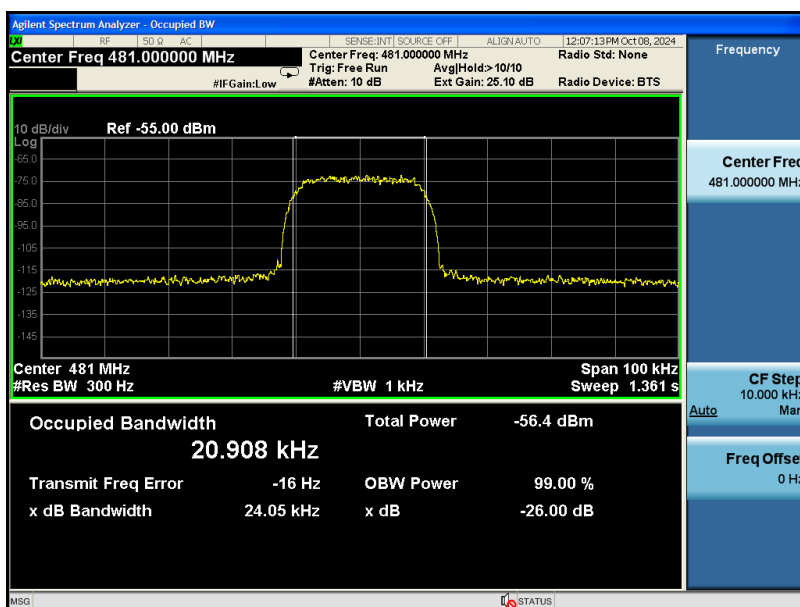


99% OBW

DL_TETRA_MCH_Input_Pre-AGC

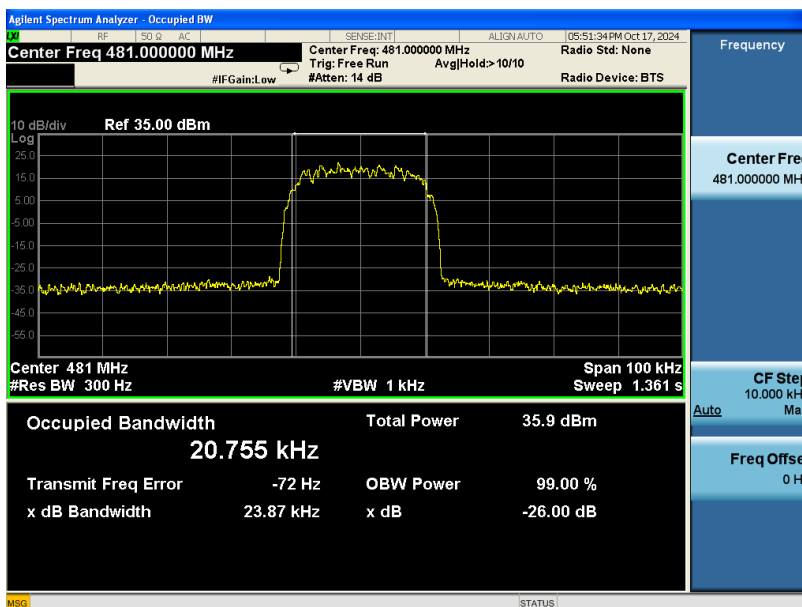


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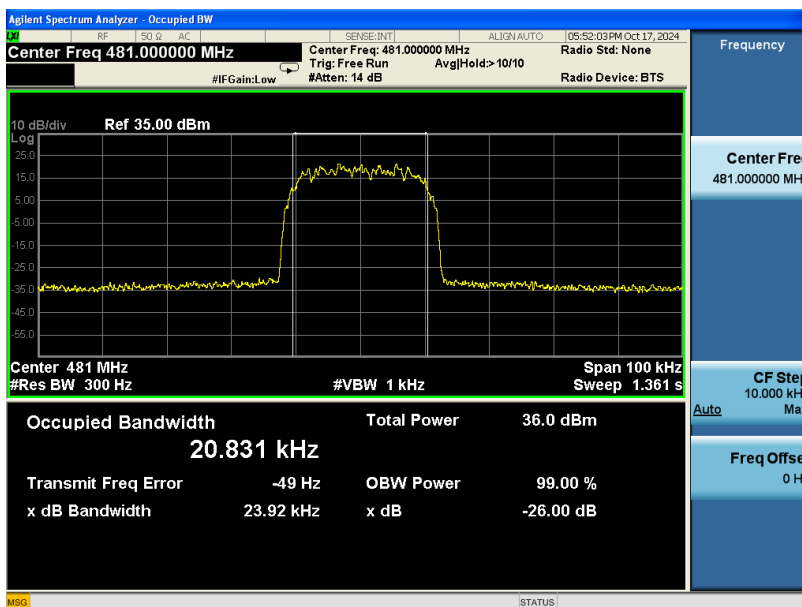


99% OBW

DL_TETRA_MCH_Output_Pre-AGC

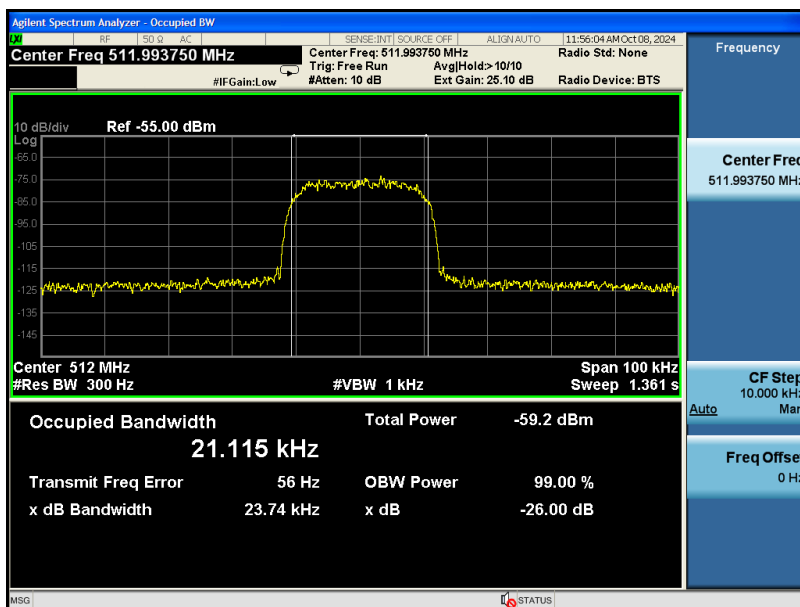


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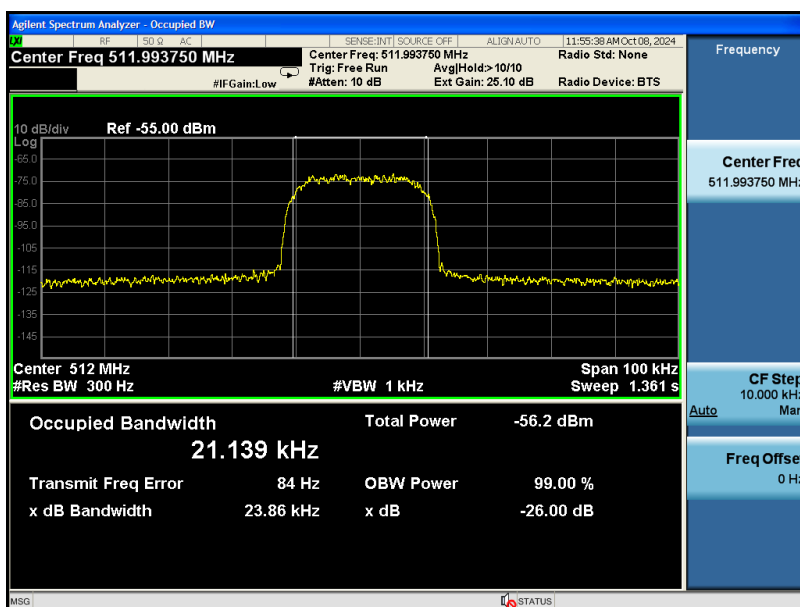


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DL_TETRA_HCH_Input_Pre-AGC

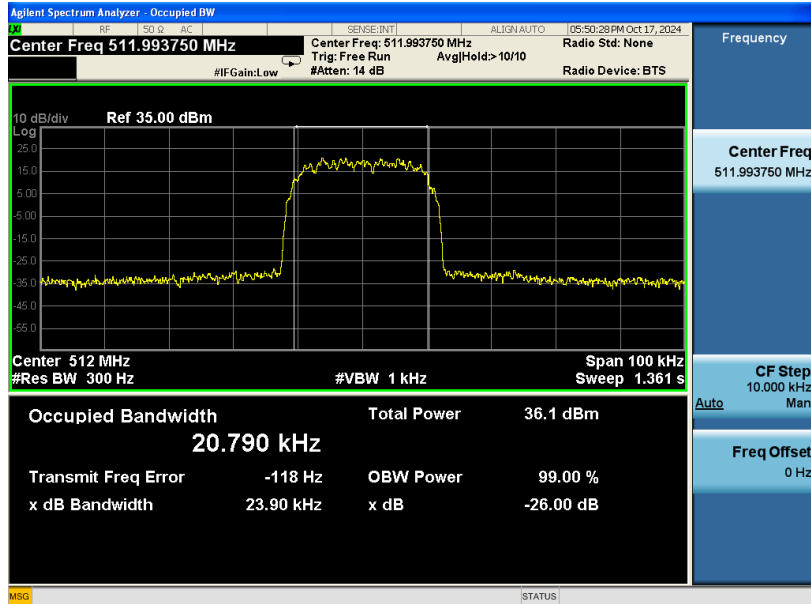


DL_TETRA_HCH_Input_3dB above AGC

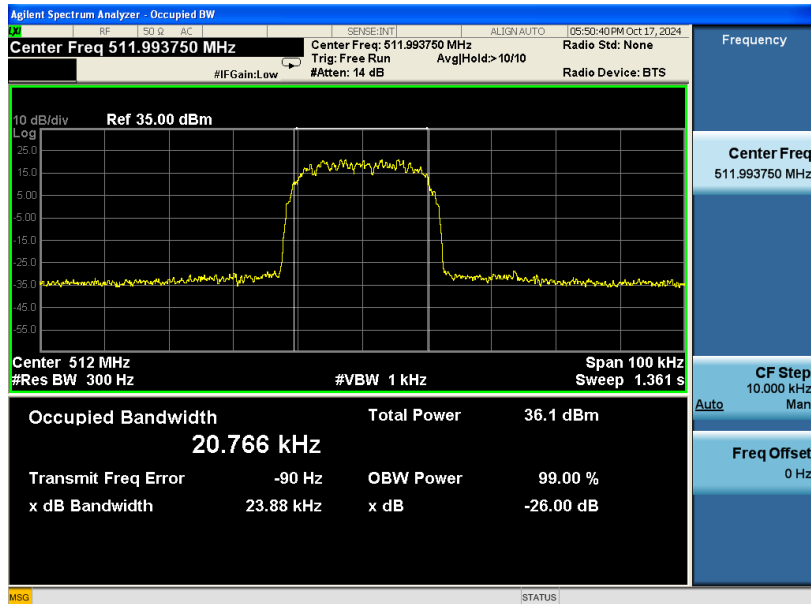


99% OBW

DL_TETRA_HCH_Output_Pre-AGC



DL_TETRA_HCH_Output_3dB above AGC

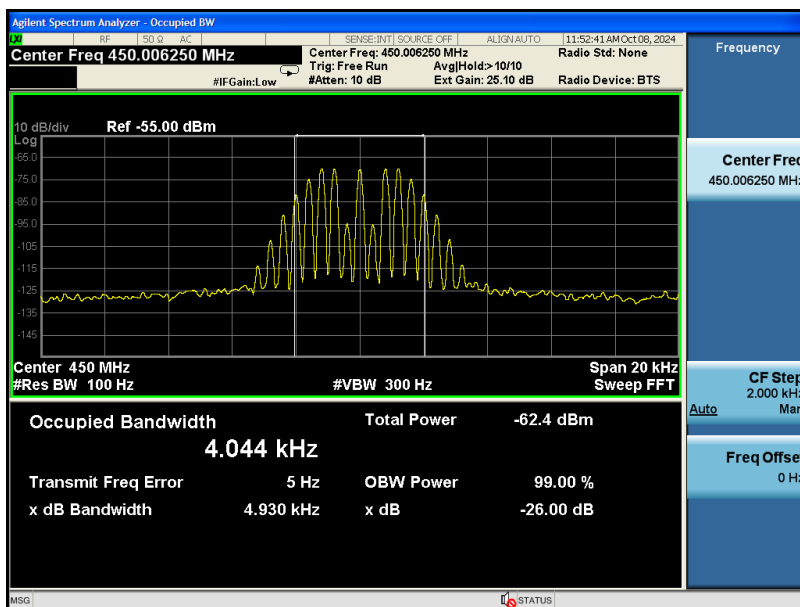


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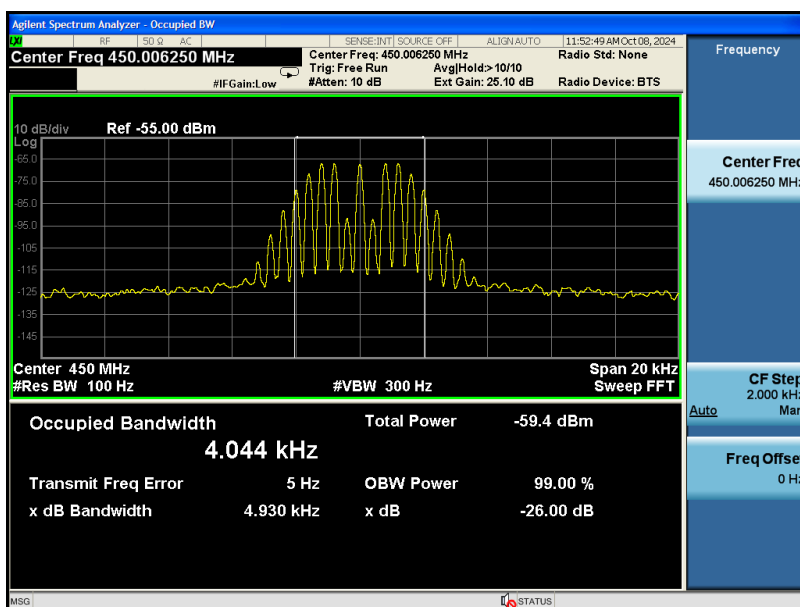
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99% OBW

UL_FM_LCH_Input_Pre-AGC

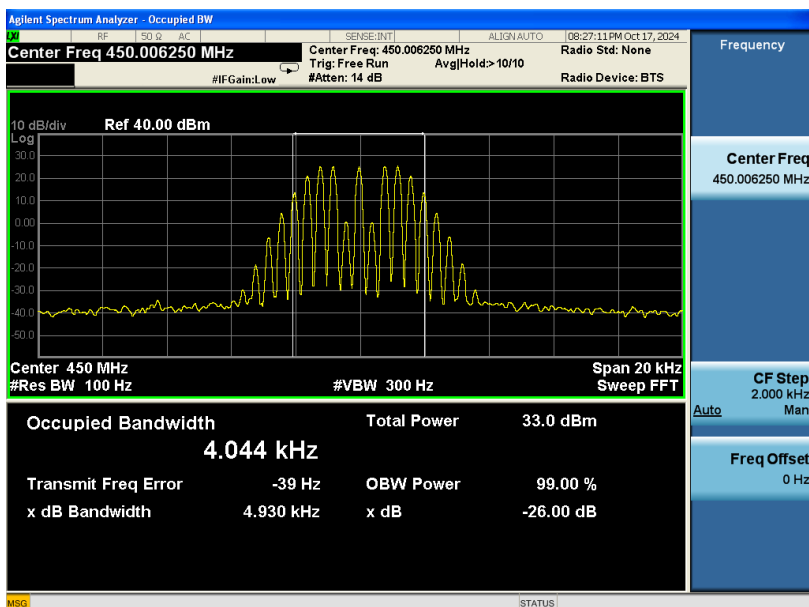


UL_FM_LCH_Input_3dB above AGC

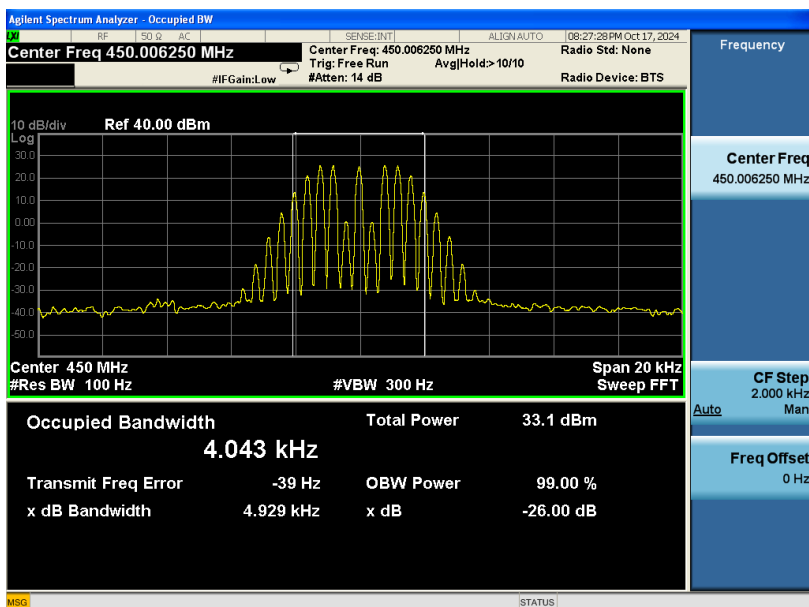


99% OBW

UL_FM_LCH_Output_Pre-AGC

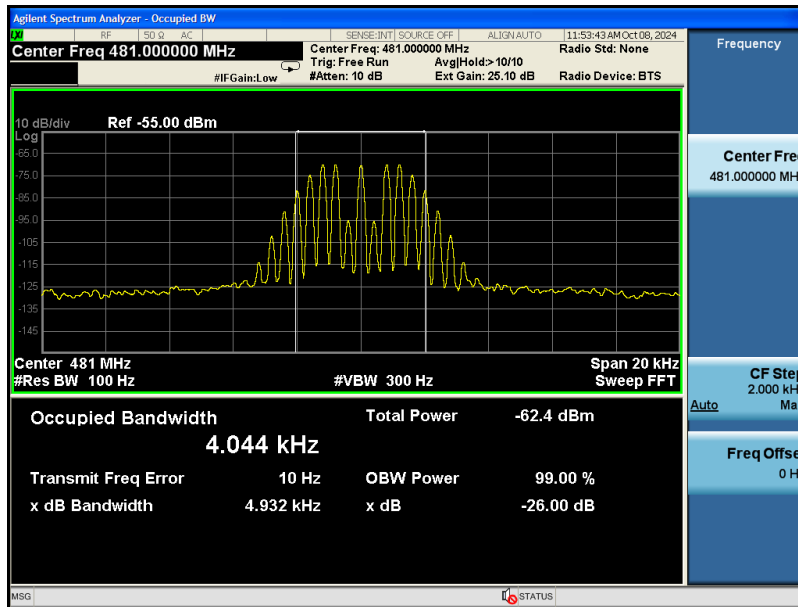


UL_FM_LCH_Output_3dB above AGC

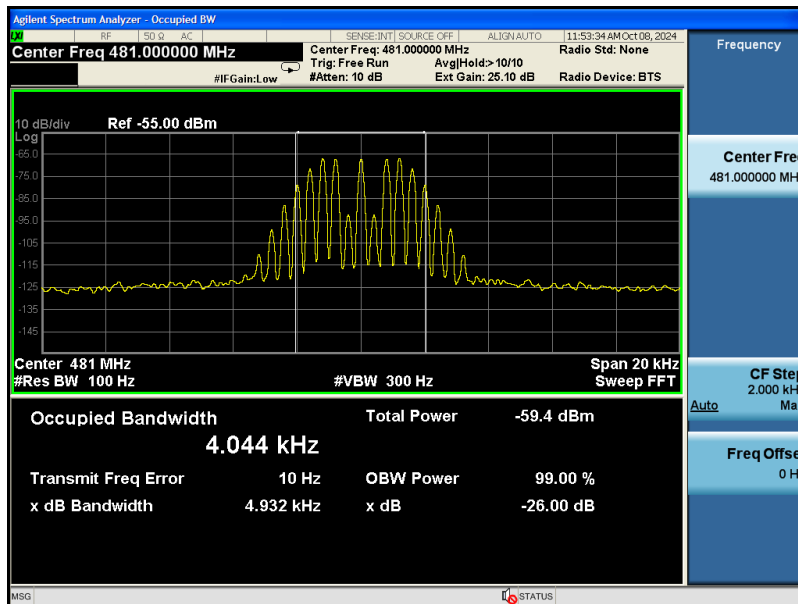


99% OBW

UL_FM_MCH_Input_Pre-AGC

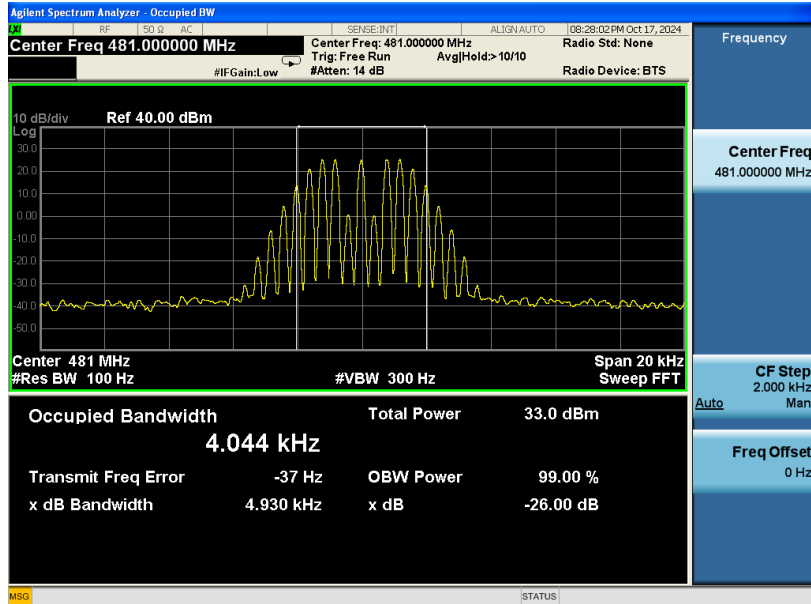


UL_FM_MCH_Input_3dB above AGC

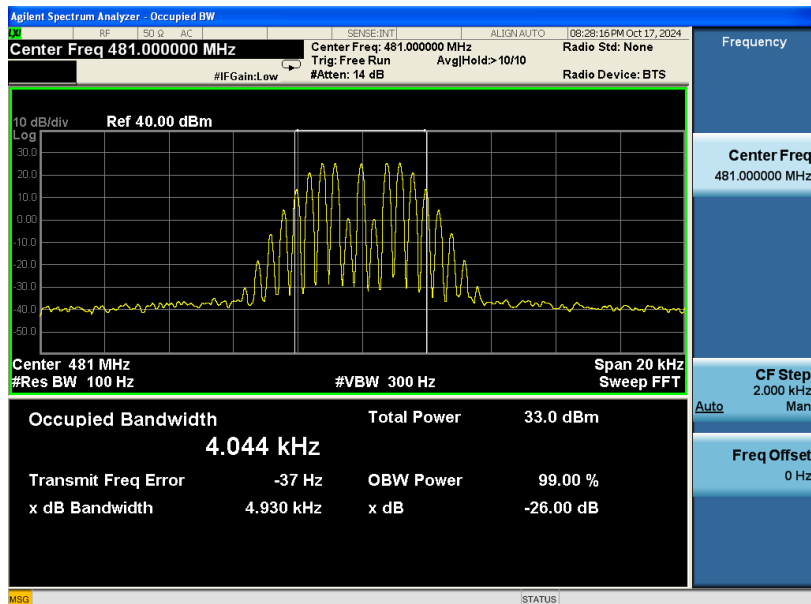


99% OBW

UL_FM_MCH_Output_Pre-AGC

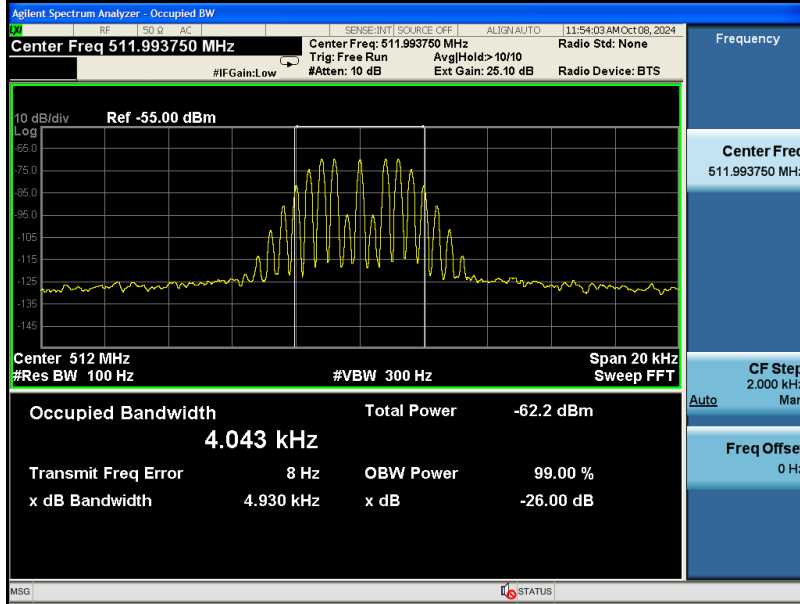


UL_FM_MCH_Output_3dB above AGC

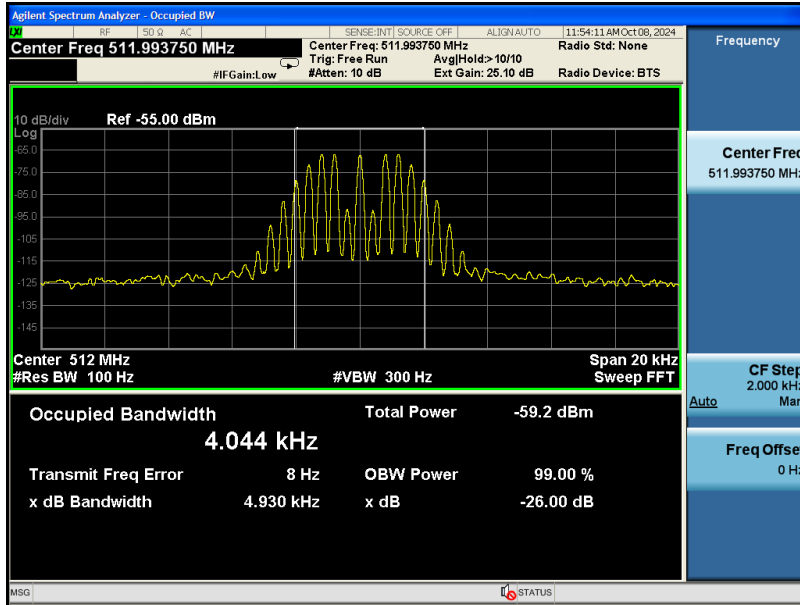


99% OBW

UL_FM_HCH_Input_Pre-AGC

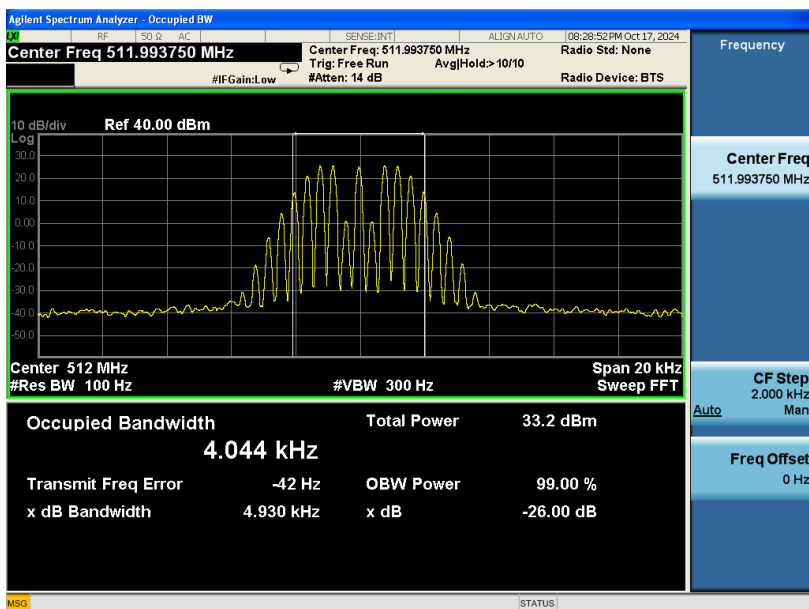


UL_FM_HCH_Input_3dB above AGC

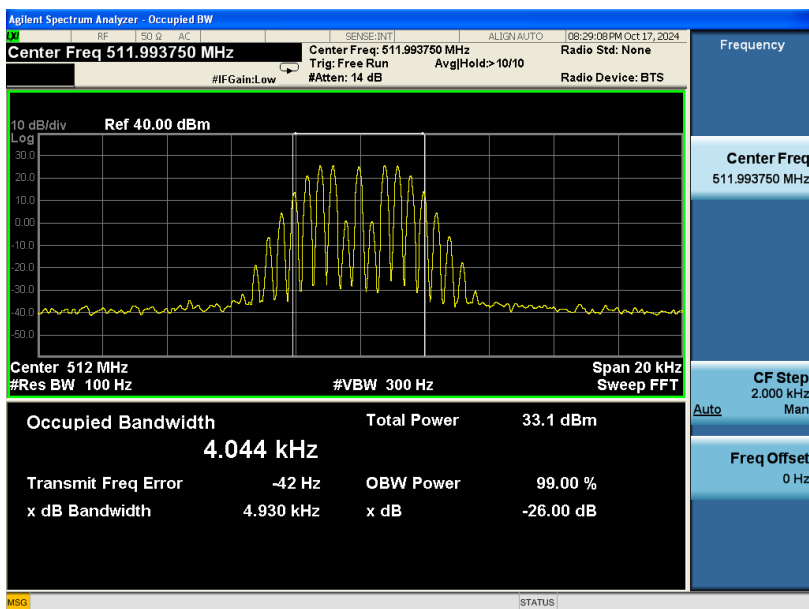


99% OBW

UL_FM_HCH_Output_Pre-AGC

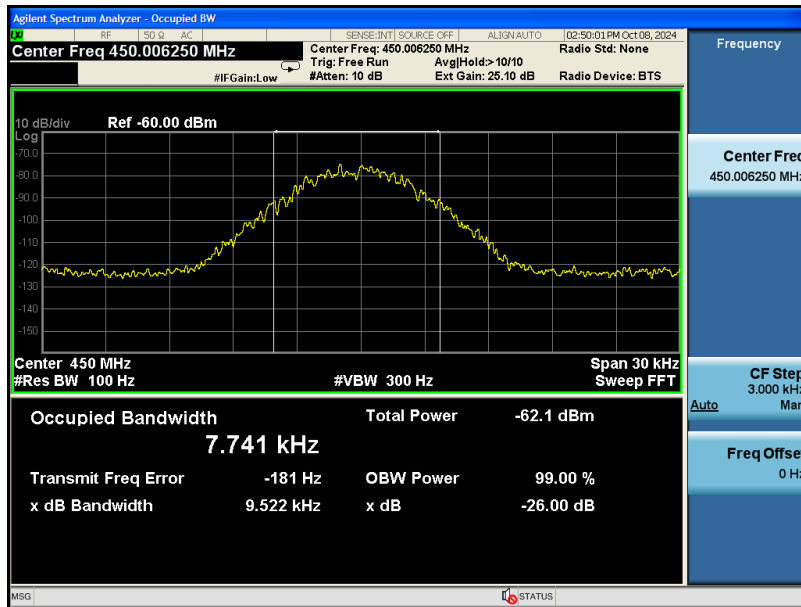


UL_FM_HCH_Output_3dB above AGC



99% OBW

UL_DMR_LCH_Input_Pre-AGC

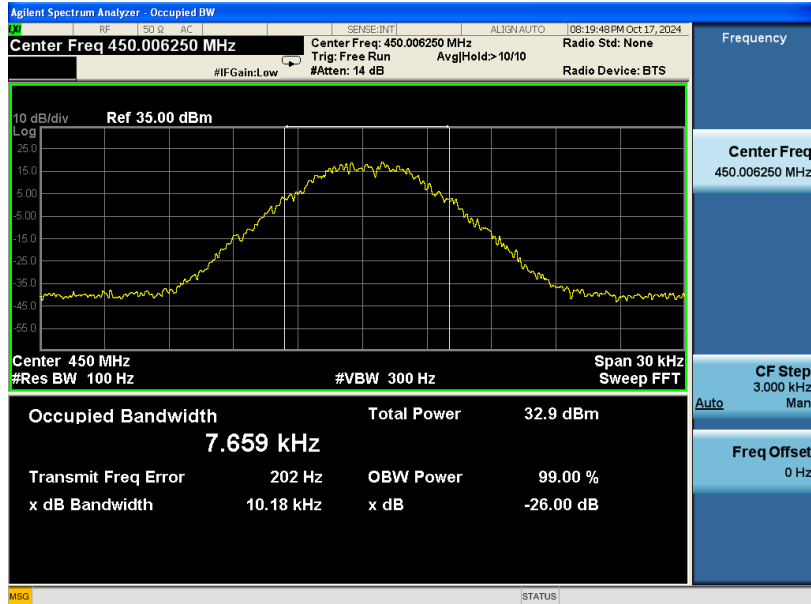


UL_DMR_LCH_Input_3dB above AGC

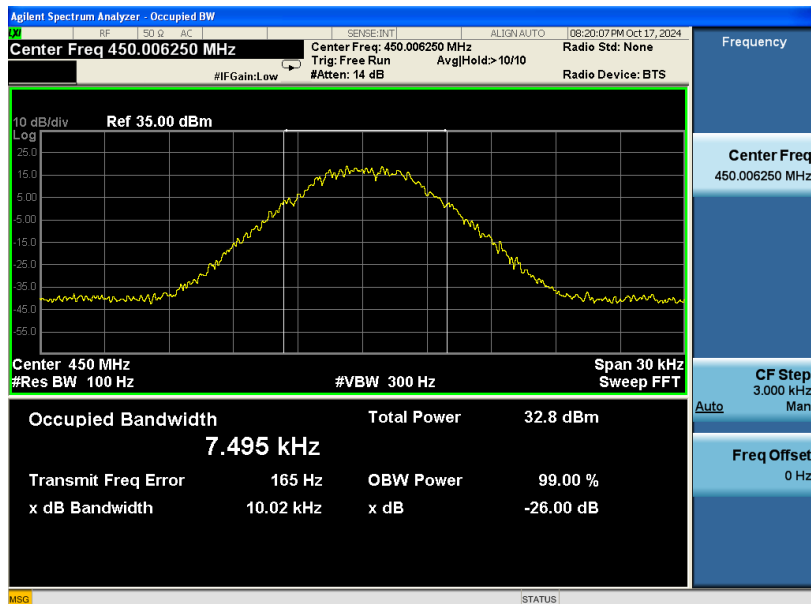


99% OBW

UL_DMR_LCH_Output_Pre-AGC

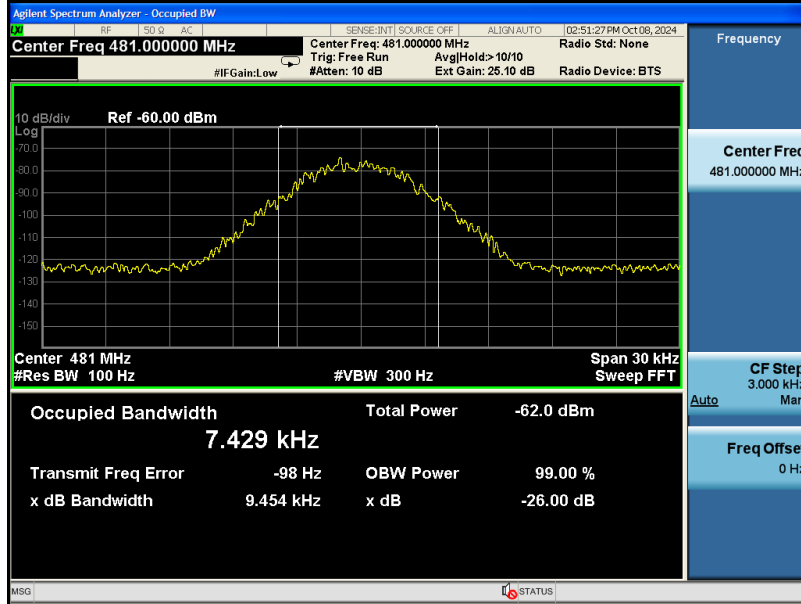


UL_DMR_LCH_Output_3dB above AGC

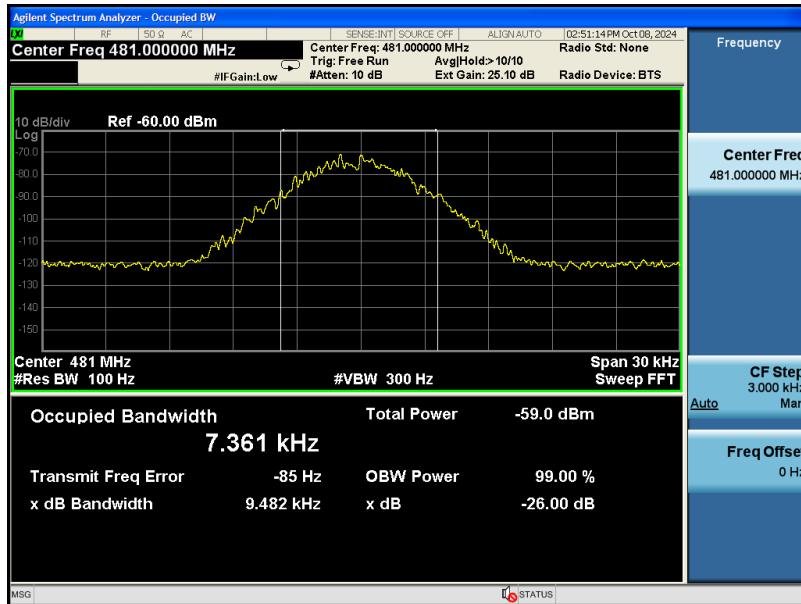


99% OBW

UL_DMR_MCH_Input_Pre-AGC

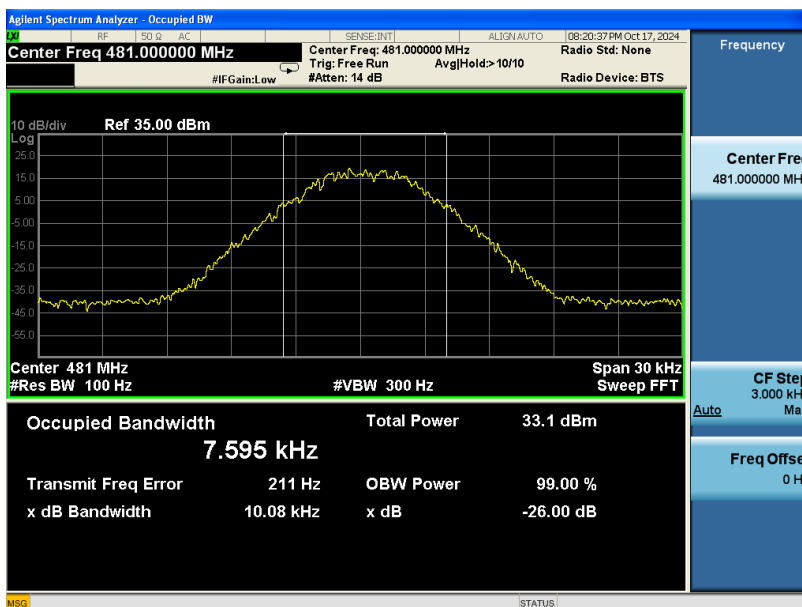


UL_DMR_MCH_Input_3dB above AGC

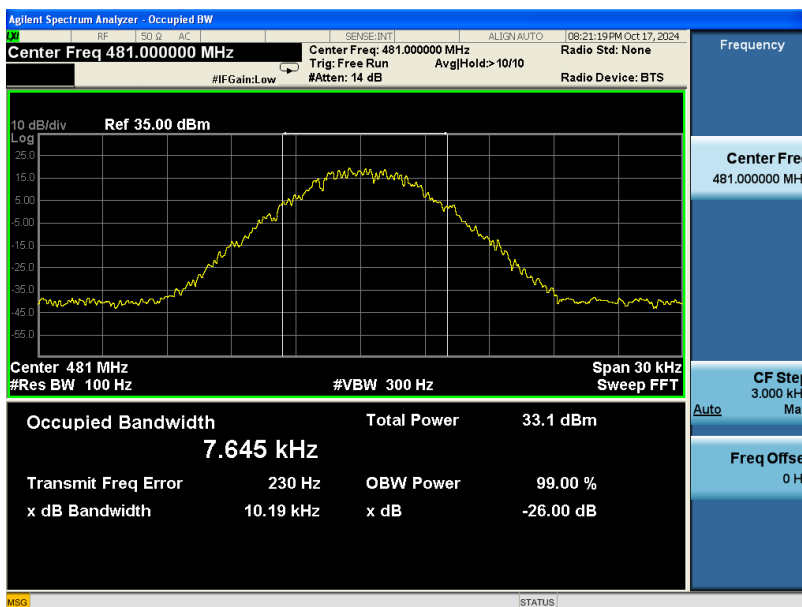


99% OBW

UL_DMR_MCH_Output_Pre-AGC



UL_DMR_MCH_Output_3dB above AGC

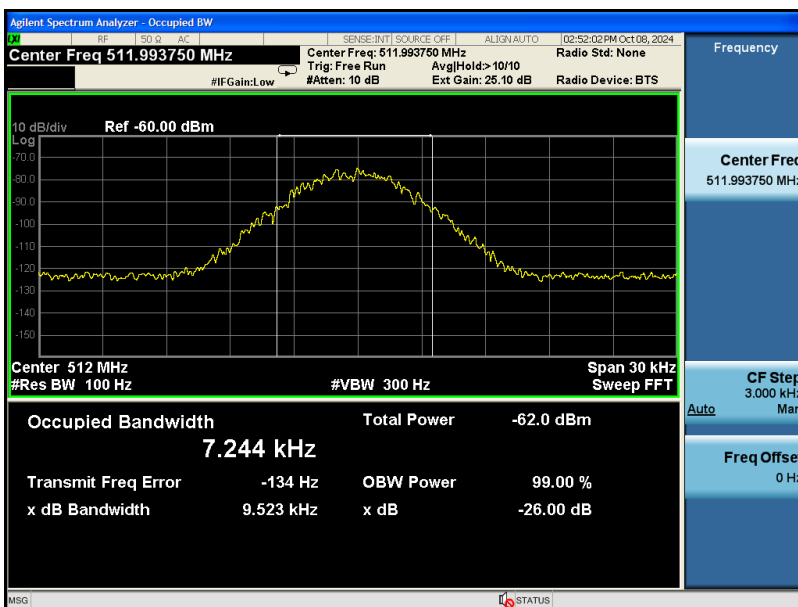


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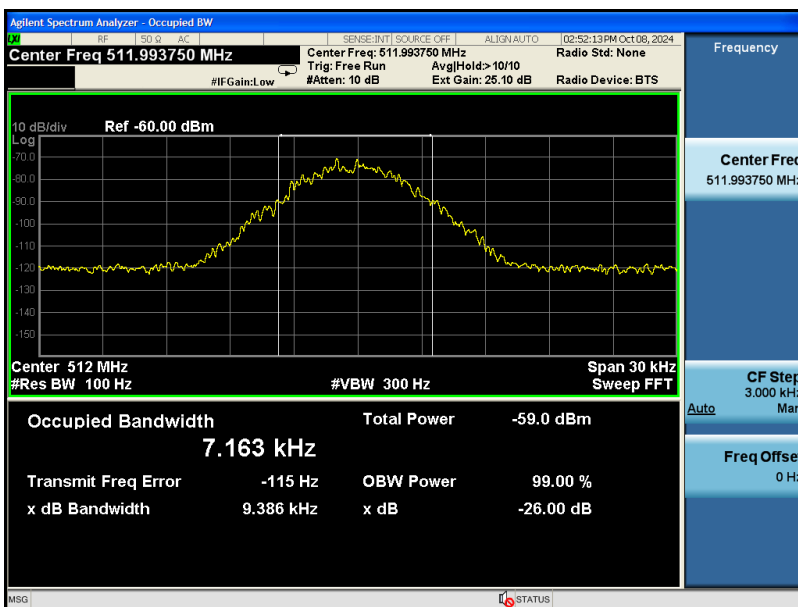
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99% OBW

UL_DMR_HCH_Input_Pre-AGC

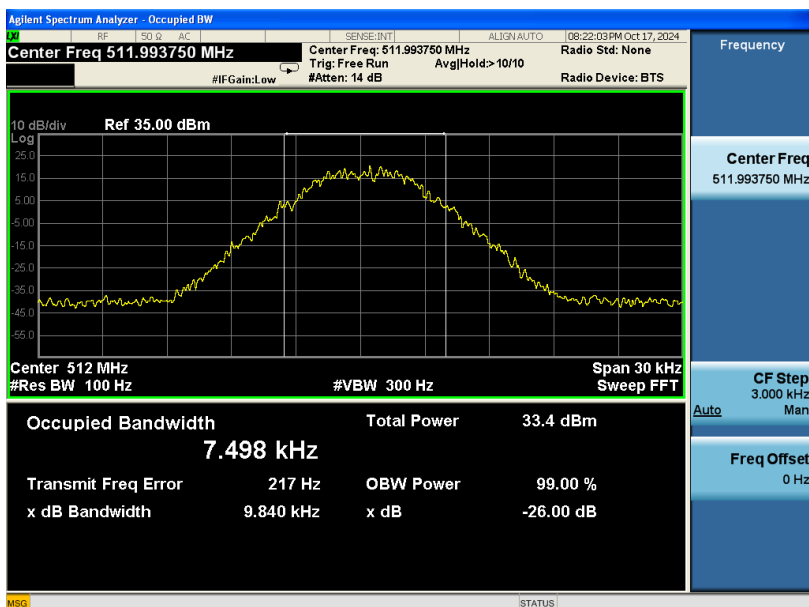


UL_DMR_HCH_Input_3dB above AGC

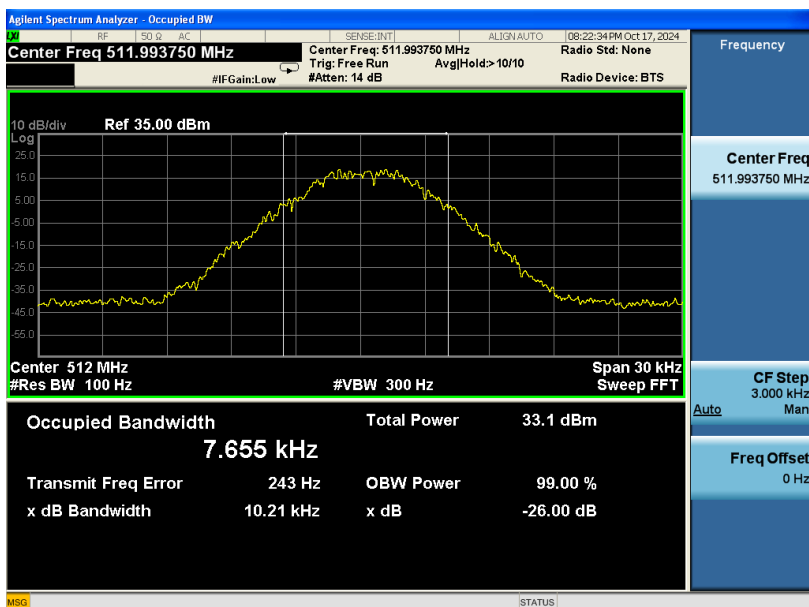


99% OBW

UL_DMR_HCH_Output_Pre-AGC

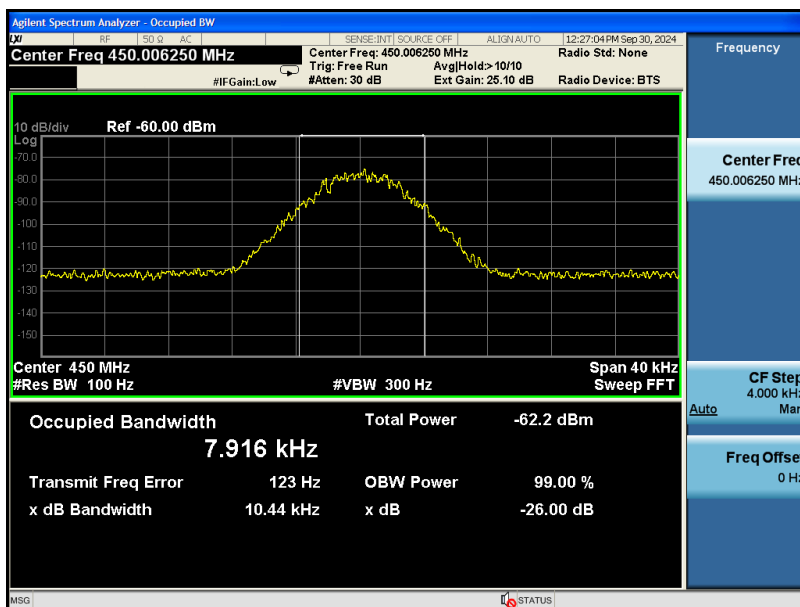


UL_DMR_HCH_Output_3dB above AGC

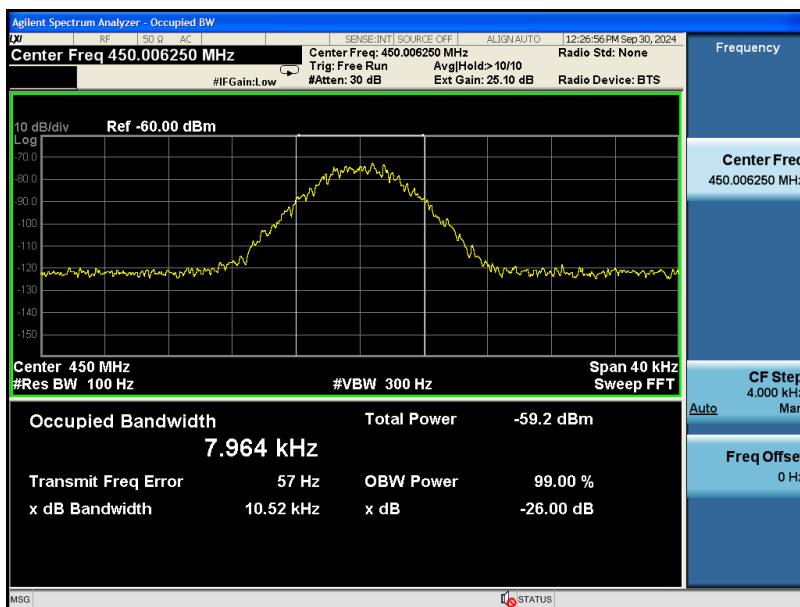


99% OBW

UL_C4FM_LCH_Input_Pre-AGC

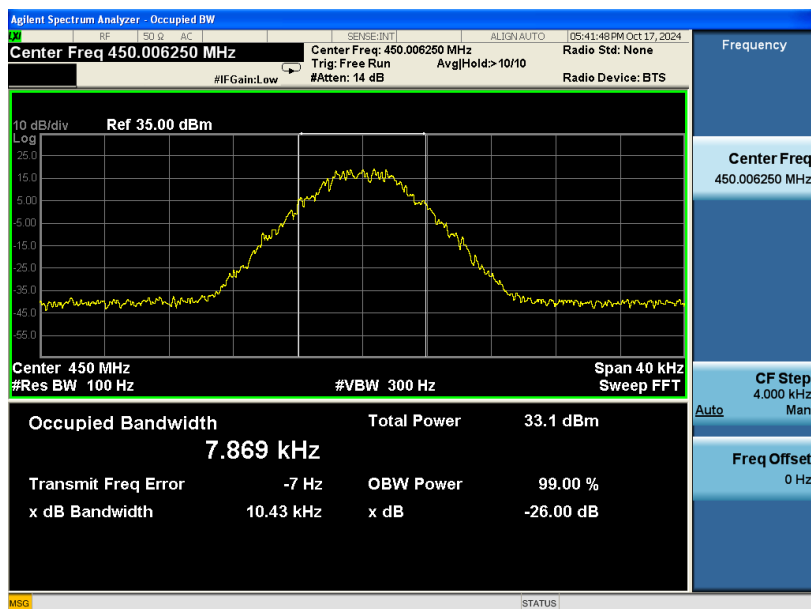


UL_C4FM_LCH_Input_3dB above AGC

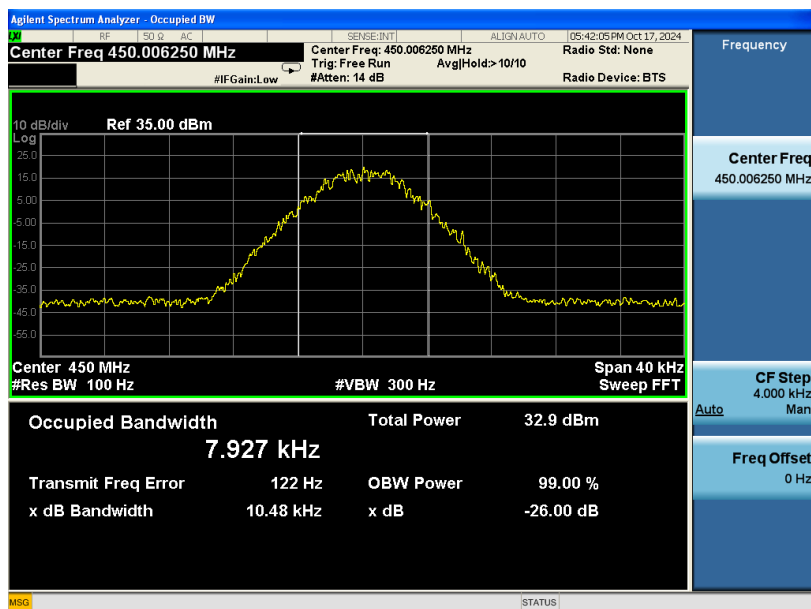


99% OBW

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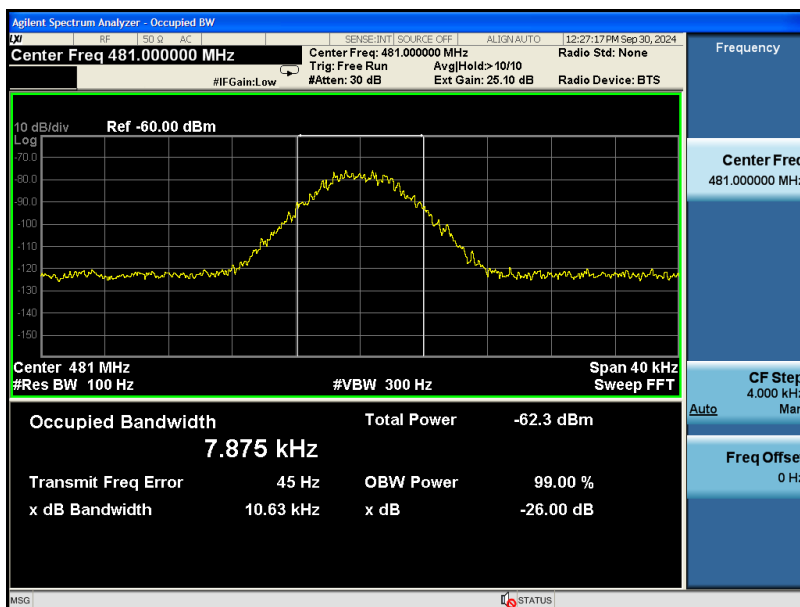


UL_C4FM_LCH_Output_3dB above AGC

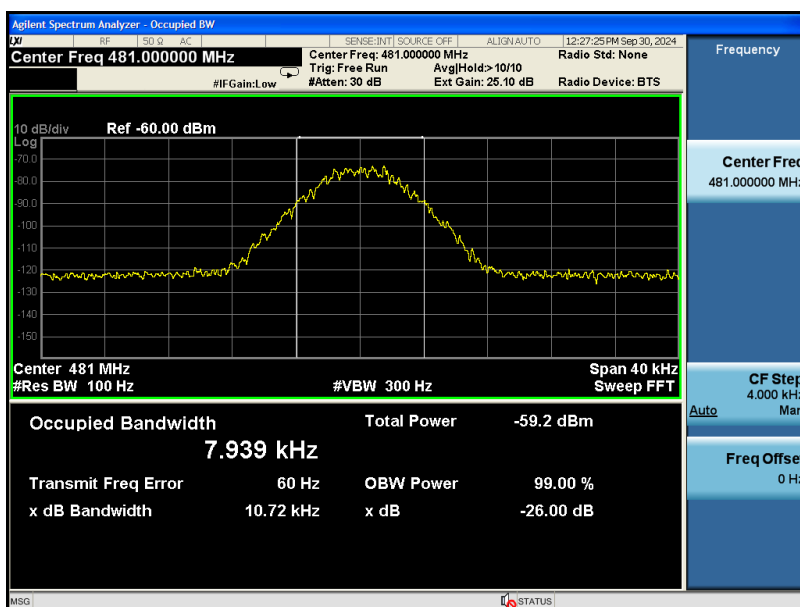


99% OBW

UL_C4FM_MCH_Input_Pre-AGC

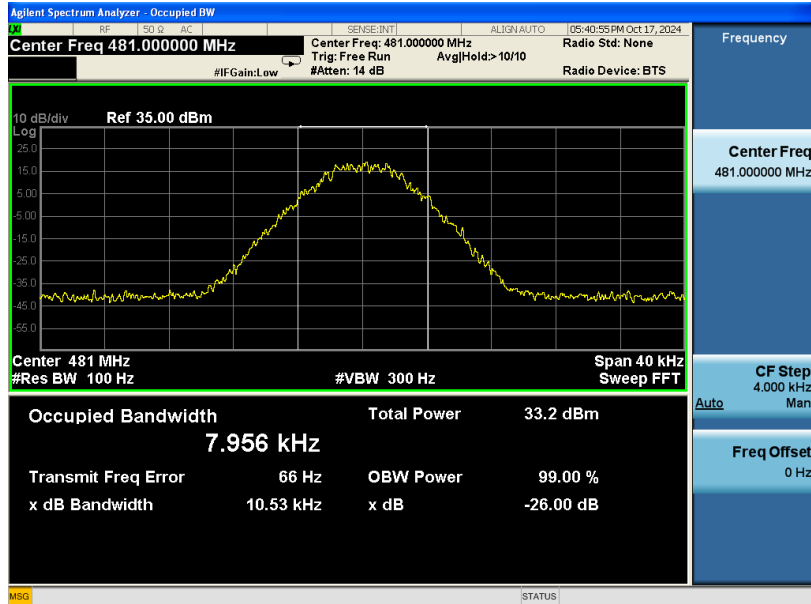


UL_C4FM_MCH_Input_3dB above AGC

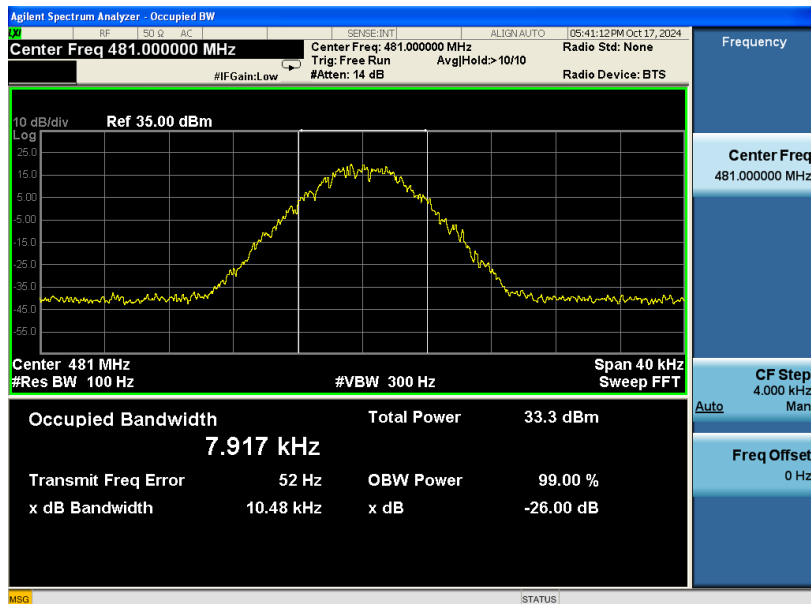


99% OBW

UL_C4FM_MCH_Output_Pre-AGC



UL_C4FM_MCH_Output_3dB above AGC

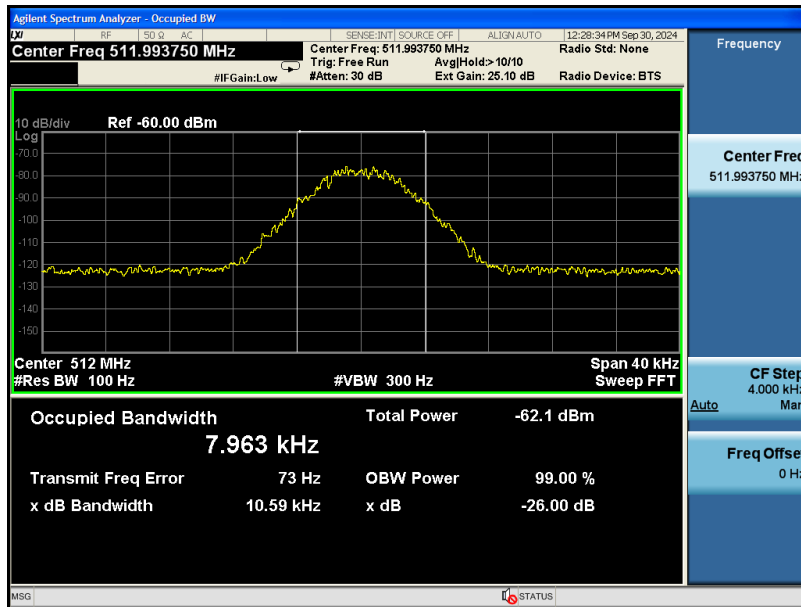


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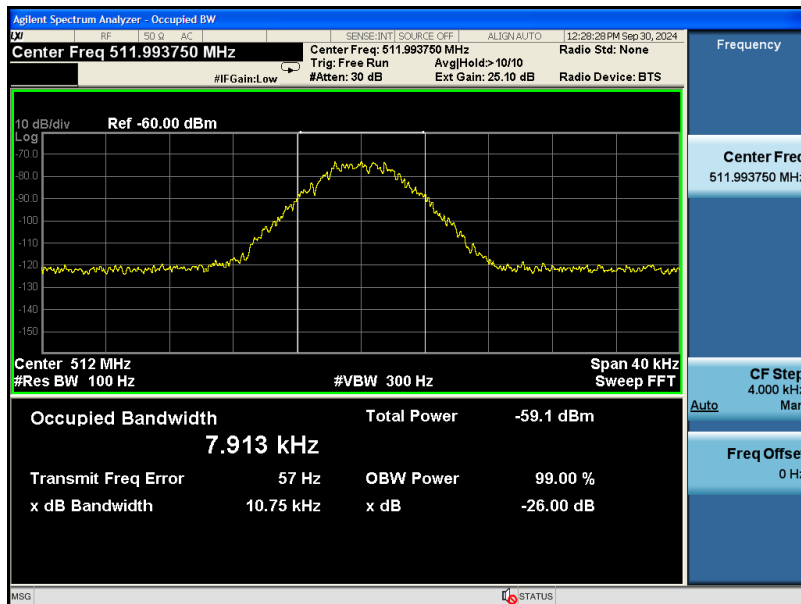
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UL_C4FM_HCH_Input_Pre-AGC

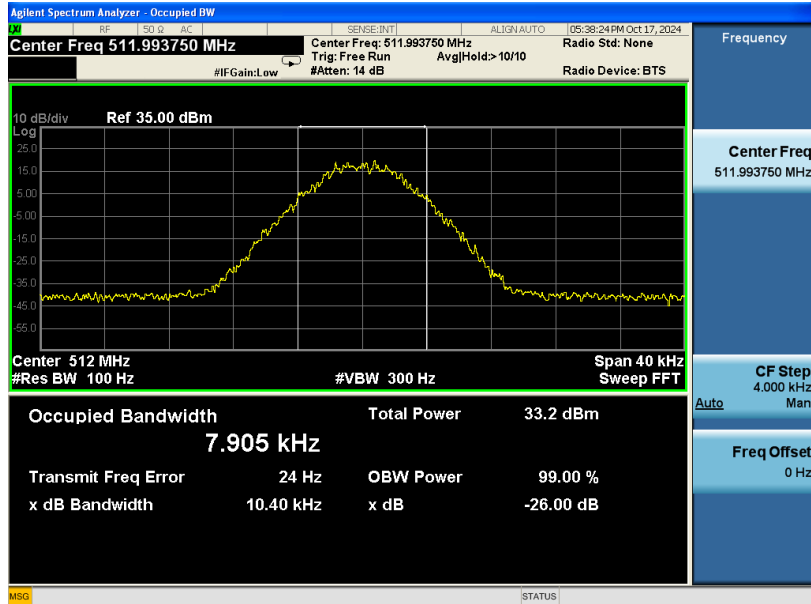


UL_C4FM_HCH_Input_3dB above AGC

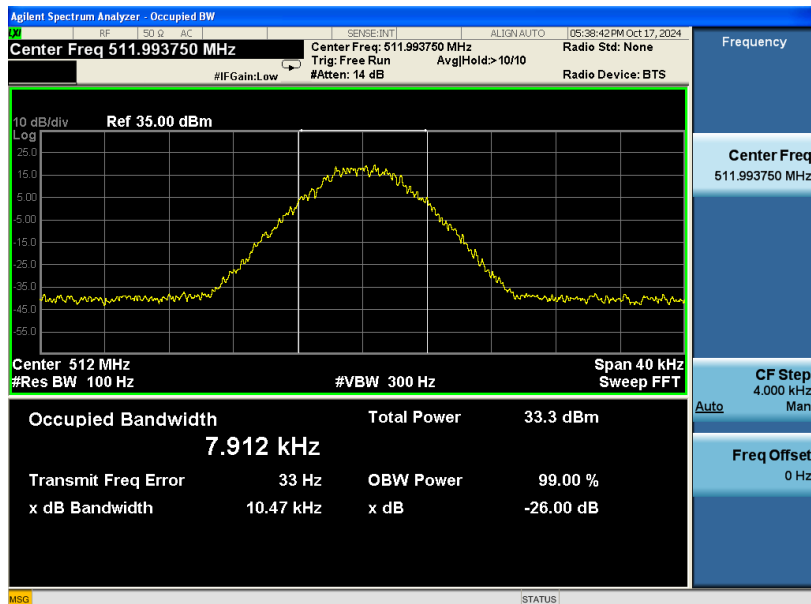


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U_C4FM_HCH_Output_Pre-AGC

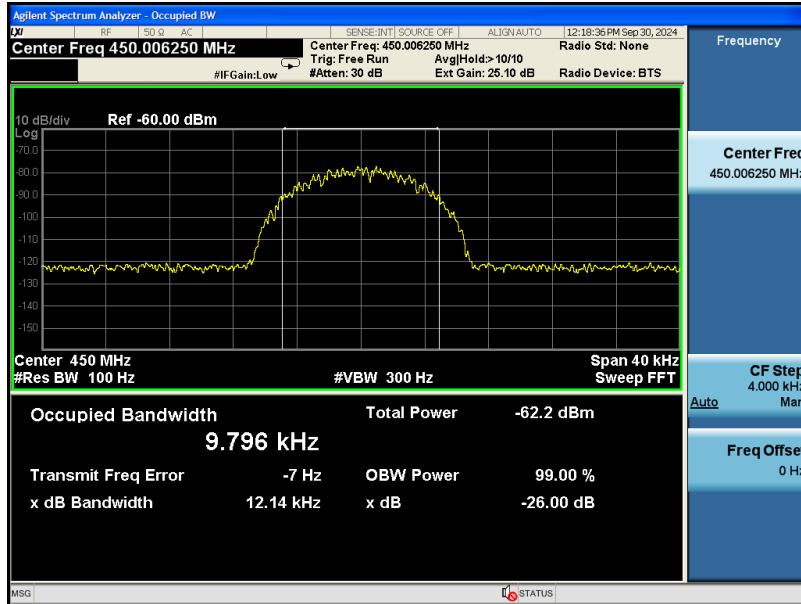


UL_C4FM_HCH_Output_3dB above AGC

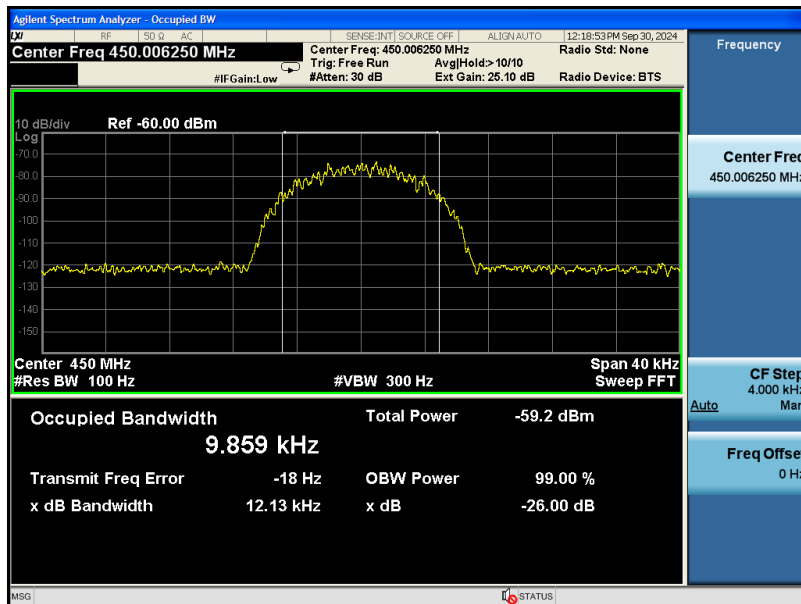


99% OBW

UL_H-DQPSK_LCH_Input_Pre-AGC

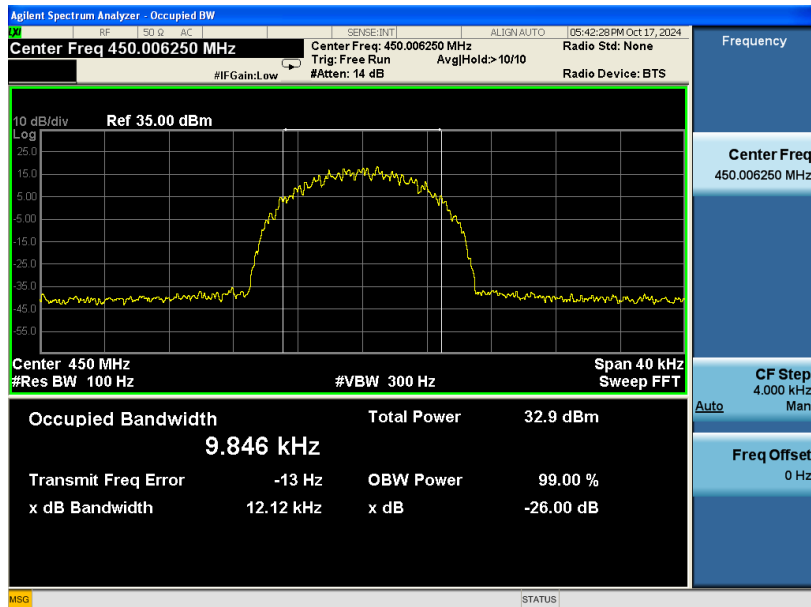


UL_H-DQPSK_LCH_Input_3dB above AGC

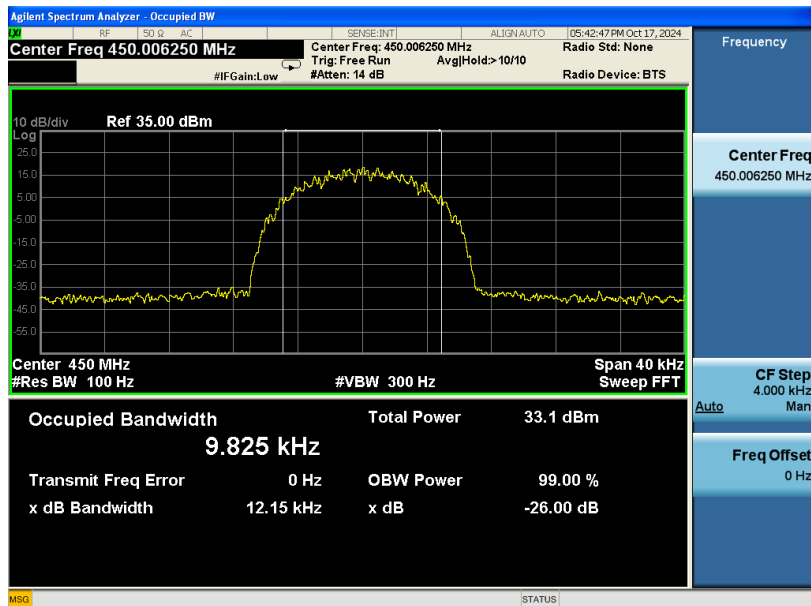


99% OBW

UL_H-DQPSK_LCH_Output_Pre-AGC

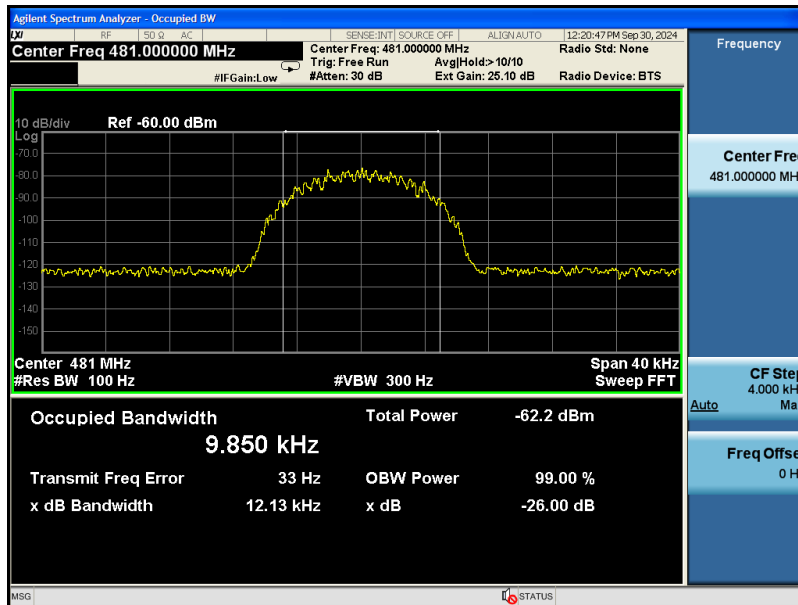


UL_H-DQPSK_LCH_Output_3dB above AGC

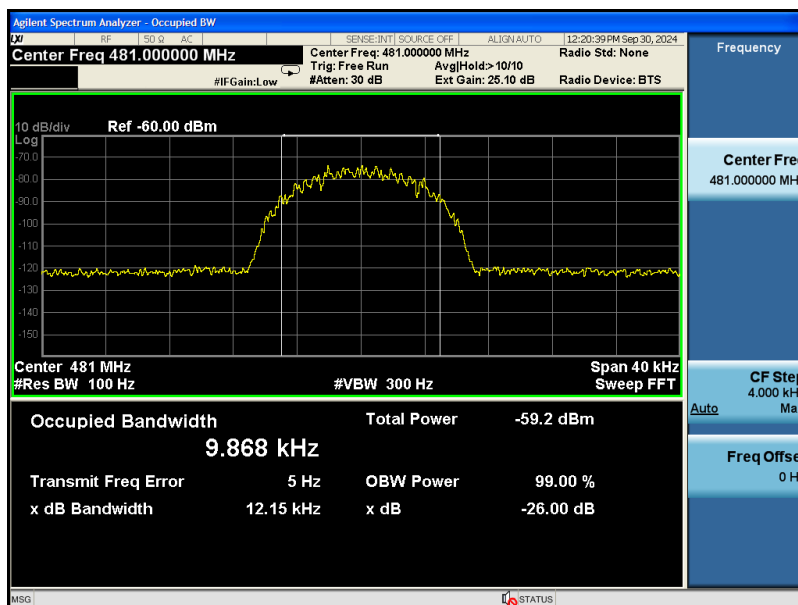


99% OBW

UL_H-DQPSK_MCH_Input_Pre-AGC



UL_H-DQPSK_MCH_Input_3dB above AGC

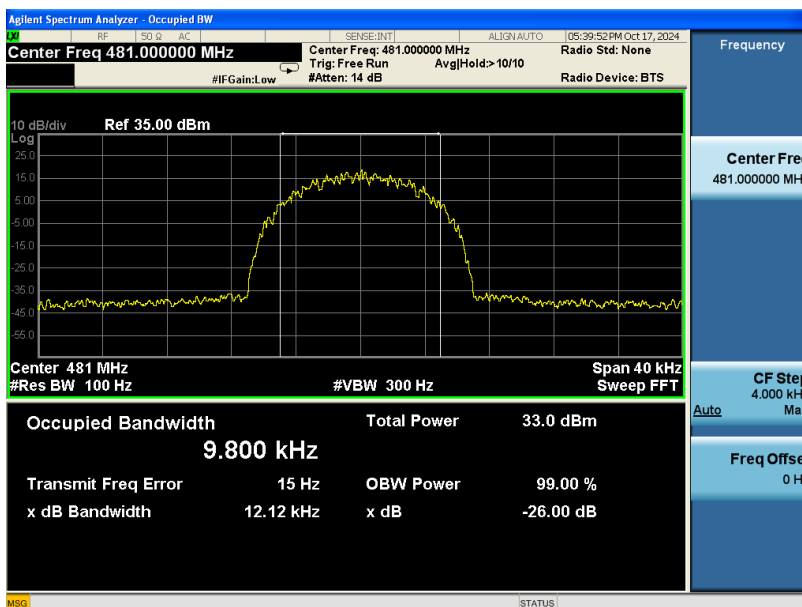


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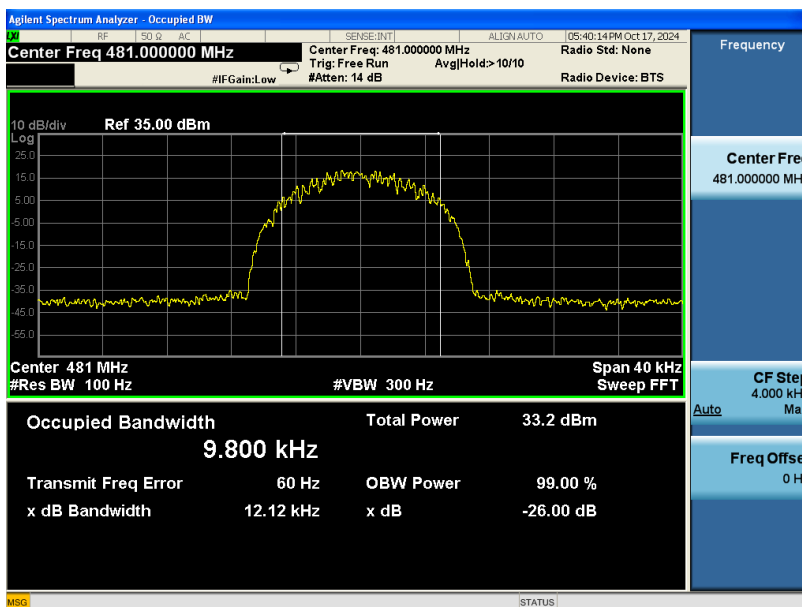
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UL_H-DQPSK_MCH_Output_Pre-AGC

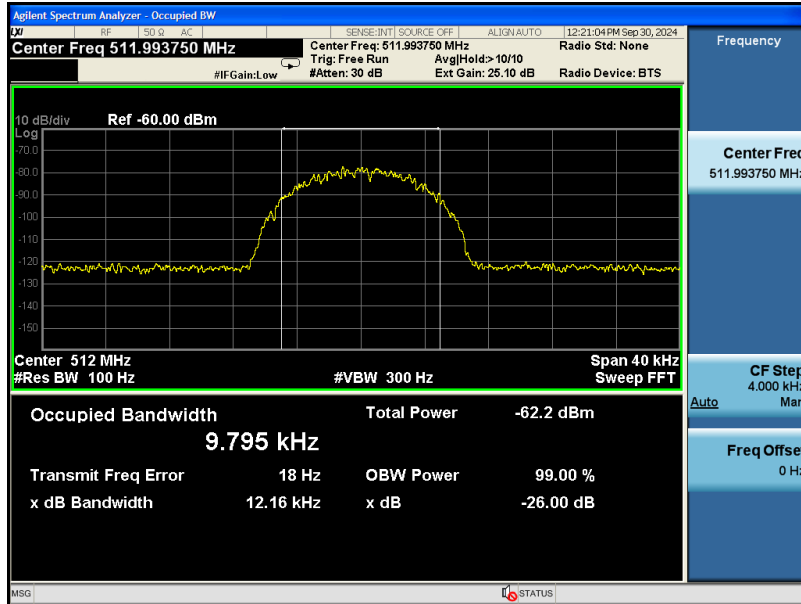


UL_H-DQPSK_MCH_Output_3dB above AGC

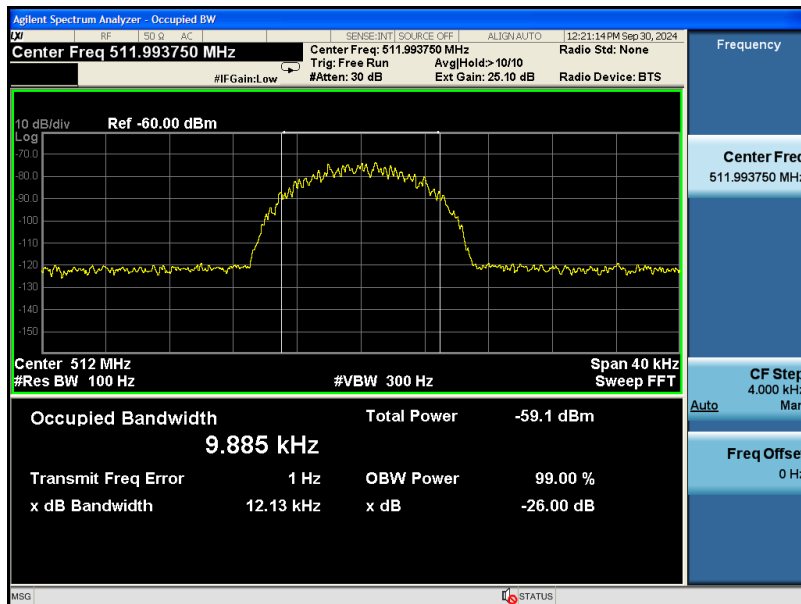


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UL_H-DQPSK_HCH_Input_Pre-AGC

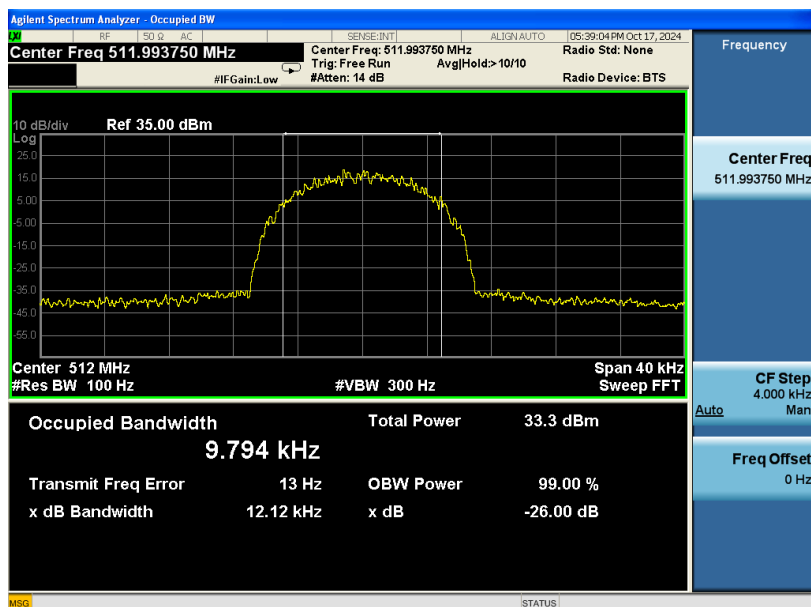


UL_H-DQPSK_HCH_Input_3dB above AGC

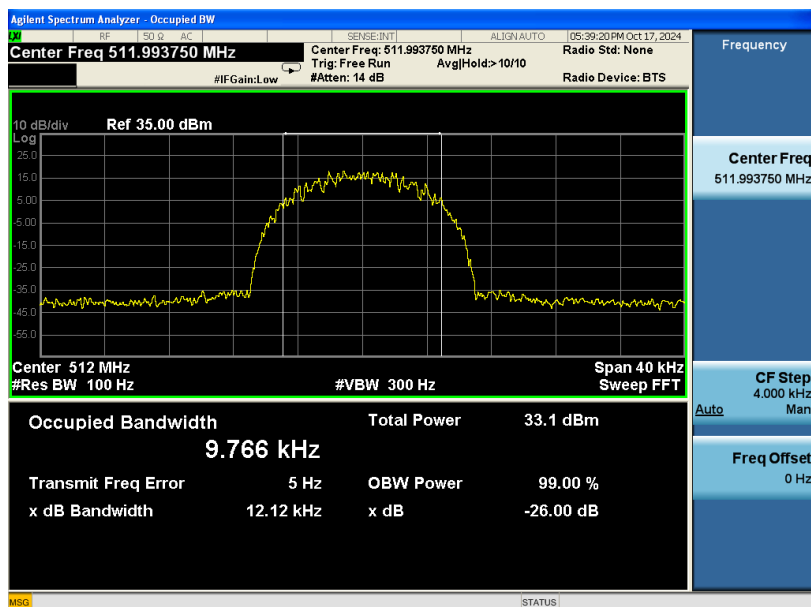


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UL_H-DQPSK_HCH_Output_Pre-AGC

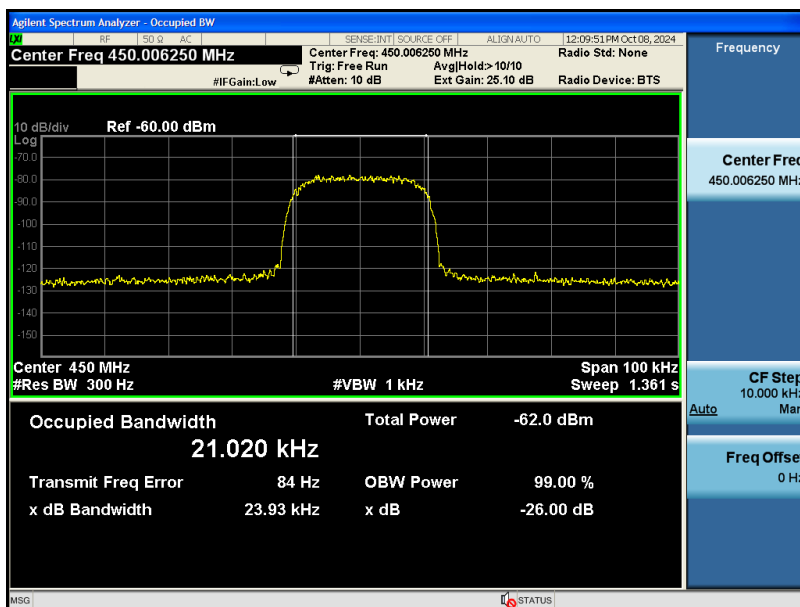


UL_H-DQPSK_HCH_Output_3dB above AGC

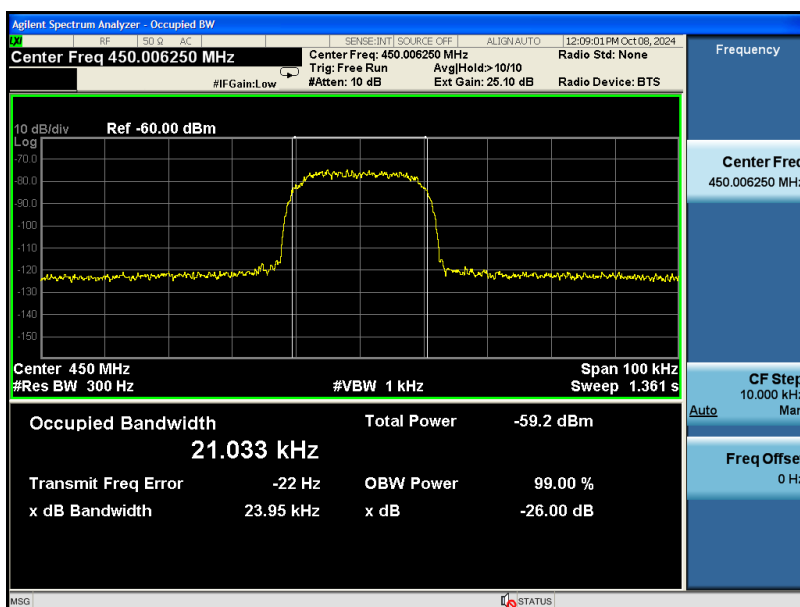


99% OBW

UL_TETRA_LCH_Input_Pre-AGC

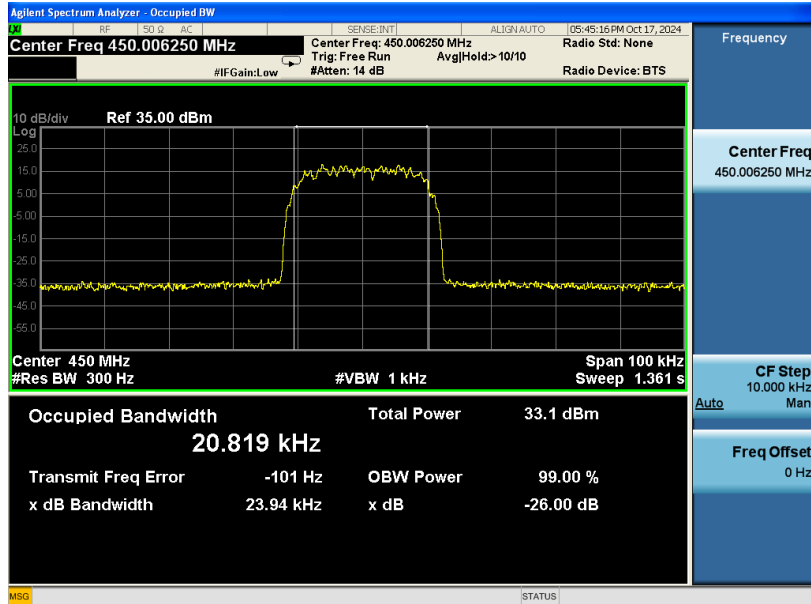


UL_TETRA_LCH_Input_3dB above AGC

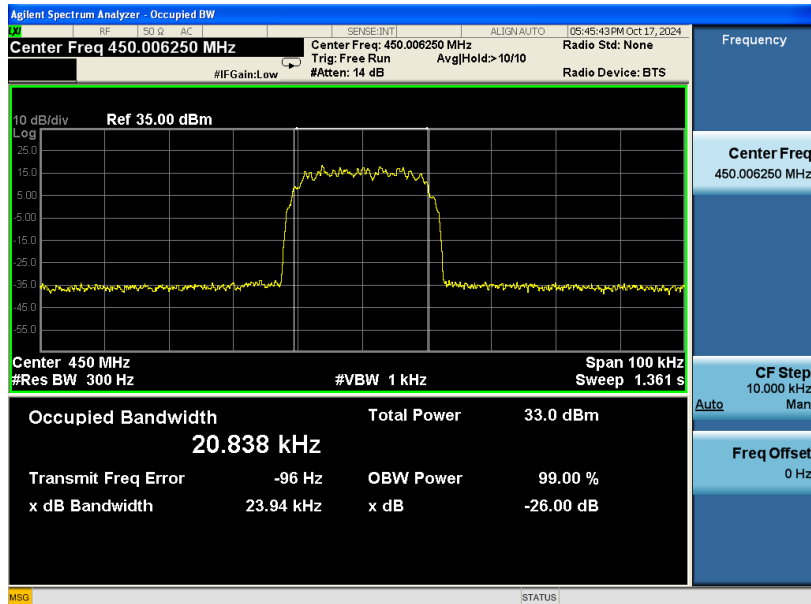


99% OBW

UL_TETRA_LCH_Output_Pre-AGC



UL_TETRA_LCH_Output_3dB above AGC

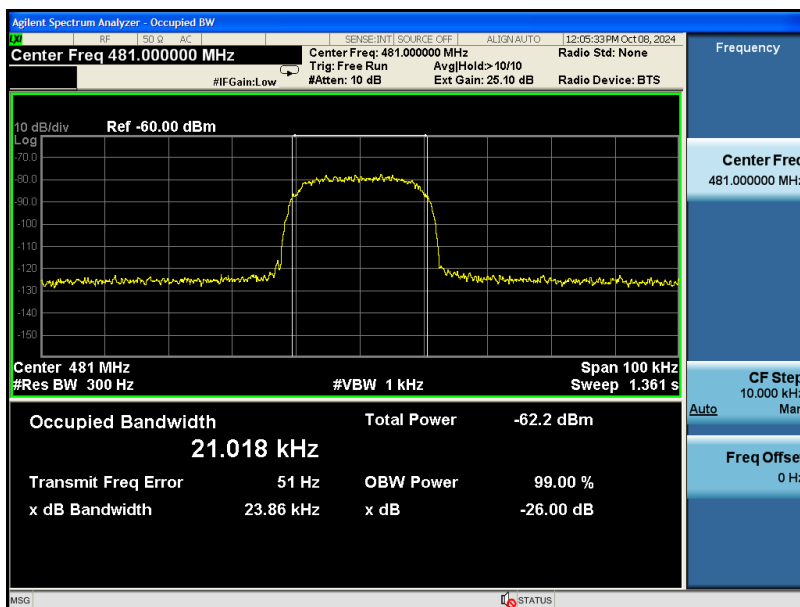


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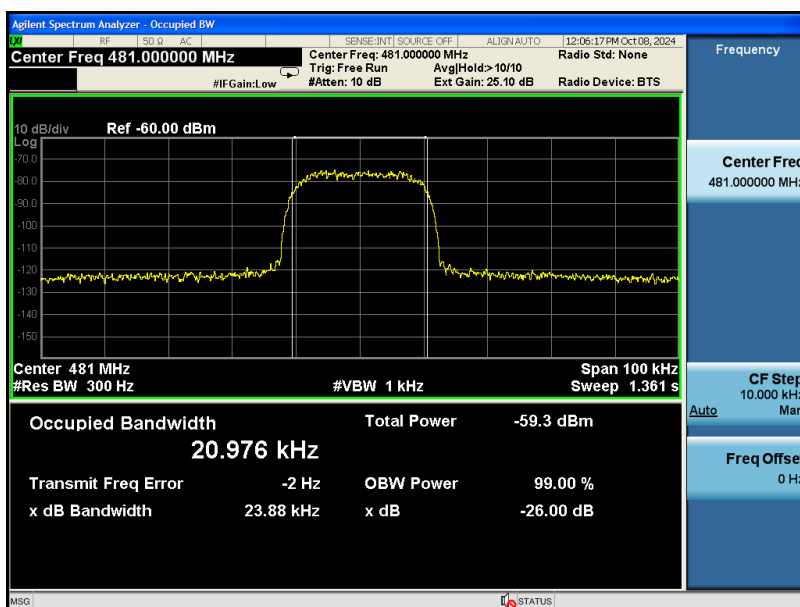
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UL_TETRA_MCH_Input_Pre-AGC

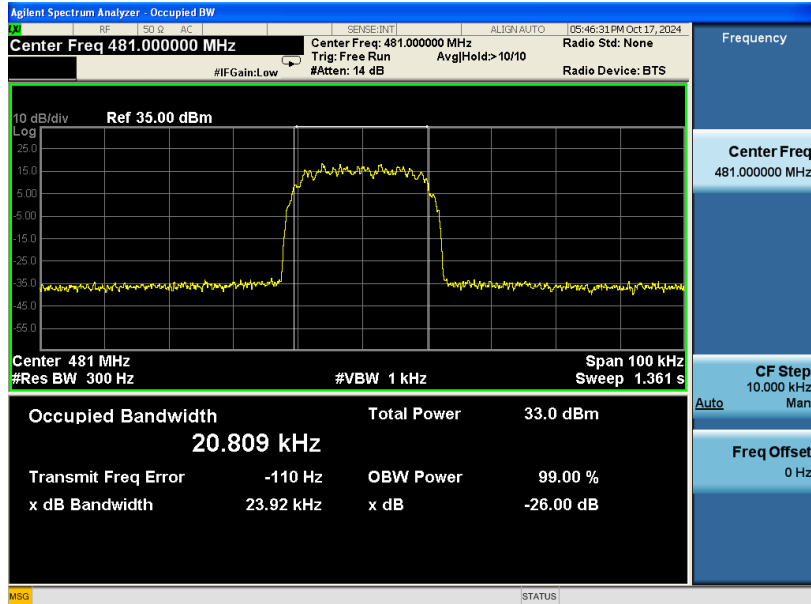


UL_TETRA_MCH_Input_3dB above AGC

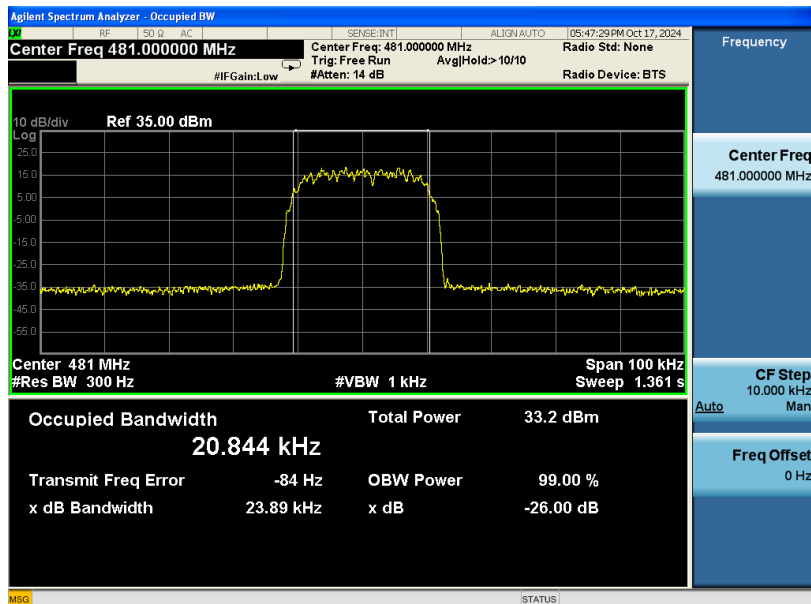


99% OBW

UL_TETRA_MCH_Output_Pre-AGC

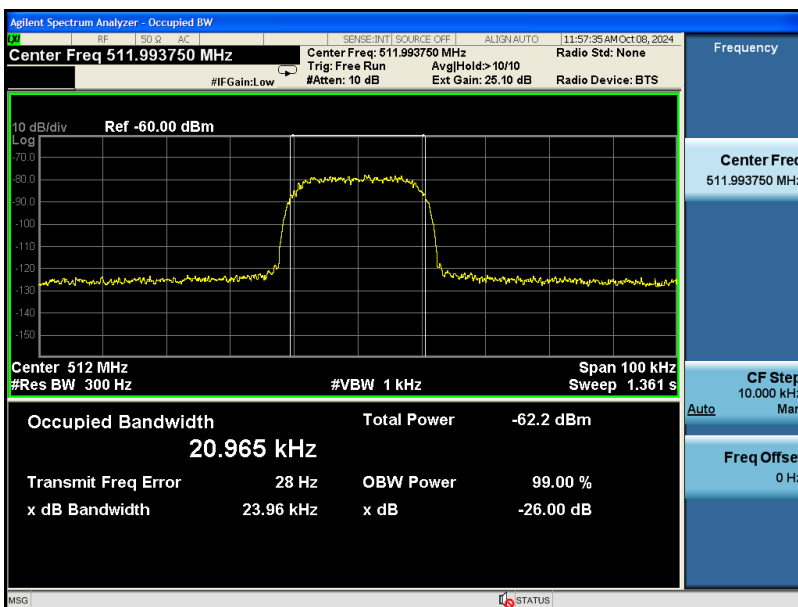


UL_TETRA_MCH_Output_3dB above AGC

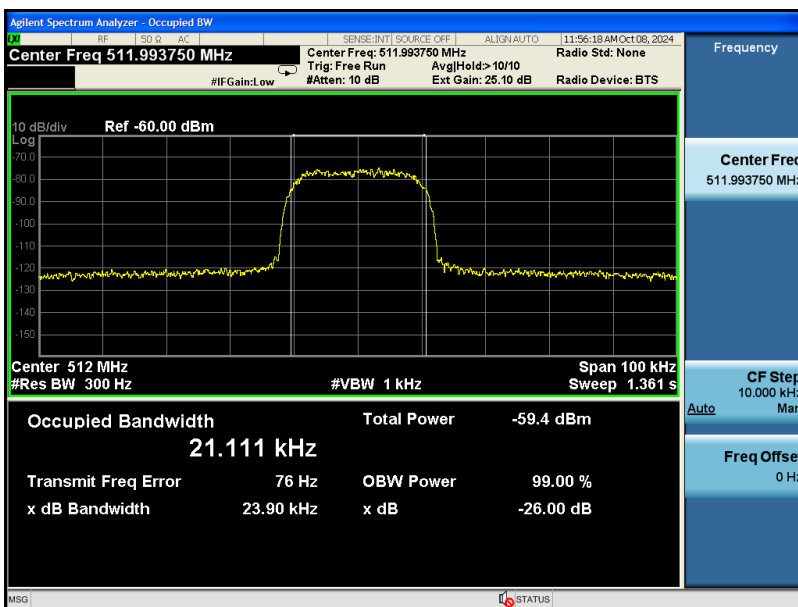


99% OBW

UL_TETRA_HCH_Input_Pre-AGC

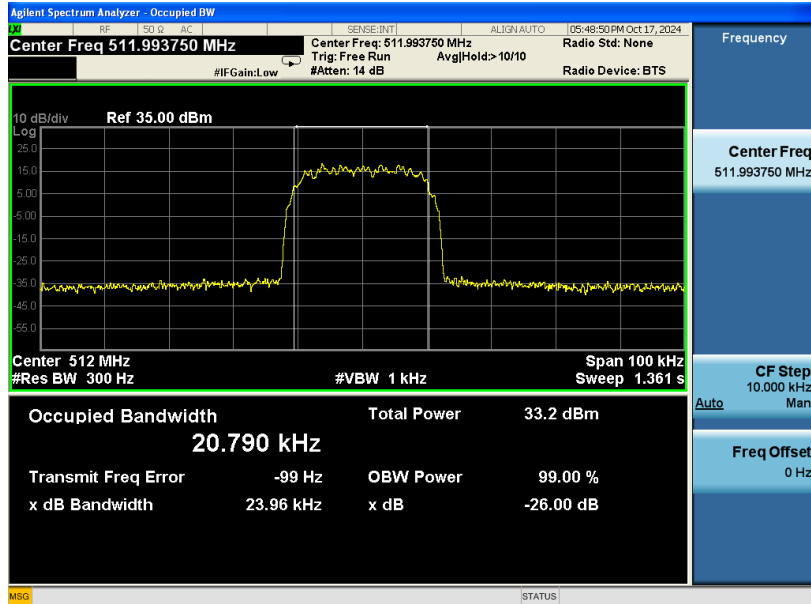


UL_TETRA_HCH_Input_3dB above AGC

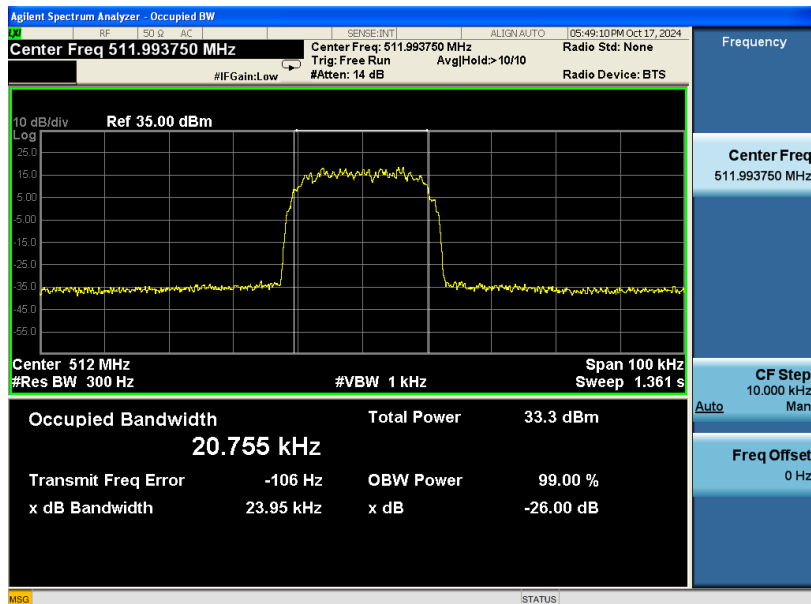


99% OBW

UL_TETRA_HCH_Output_Pre-AGC



UL_TETRA_HCH_Output_3dB above AGC



3 Input/output power and amplifier/booster gain

| Input/output power and amplifier/booster gain | | | | | | | | |
|---|----------------------------|---------------|-------------------------|--------------------------|------------|---------------------|--------------|---------|
| Test path | Test frequency f0 (MHz) | Signal level | Input power (dBm) | Output power (dBm) | ERP (W) | ERP limit (W) | Gain (dB) | Verdict |
| DL | 453.7 | Pre-AGC | -59 | 37.05 | 3.10 | 5 | 96.05 | PASS |
| | | 3dB above AGC | -56 | 36.89 | 2.98 | | / | PASS |
| UL | 453.7 | Pre-AGC | -62 | 33.13 | 1.26 | | 95.13 | PASS |
| | | 3dB above AGC | -59 | 33.54 | 1.38 | | / | PASS |

Remark:

- f0 is from Out-of-band Rejection test in the report.
- The manufacturer's rated Output power is 30dBm for DL & UL, and the Output power showed in above table is within ± 1.0 dB tolerance.
- ERP= Output power (dBm)+ antenna gain (dBi)- 2.15dB, the maximum antenna gain is 0dBi declared by the manufacturer.



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4 Emission Masks

| Emission Masks | | | | | |
|----------------|-------------|--------------|---------------|---------------|---------|
| Test path | Test signal | Test channel | Signal level | Emission mask | Verdict |
| DL | FM | LCH | Pre-AGC | Mask E | PASS |
| | | | 3dB above AGC | | PASS |
| | | MCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | | HCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | DMR | LCH | Pre-AGC | Mask D | PASS |
| | | | 3dB above AGC | | PASS |
| | | MCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | | HCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | C4FM | LCH | Pre-AGC | Mask D | PASS |
| | | | 3dB above AGC | | PASS |
| | | MCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | | HCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | H-DQPSK | LCH | Pre-AGC | Mask D | PASS |
| | | | 3dB above AGC | | PASS |
| | | MCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | | HCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |

| Emission Masks | | | | | |
|----------------|-------------|--------------|---------------|---------------|---------|
| Test path | Test signal | Test channel | Signal level | Emission mask | Verdict |
| DL | TETRA | LCH | Pre-AGC | Mask B | PASS |
| | | | 3dB above AGC | | PASS |
| | | MCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | | HCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| UL | FM | LCH | Pre-AGC | Mask E | PASS |
| | | | 3dB above AGC | | PASS |
| | | MCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | | HCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | DMR | LCH | Pre-AGC | Mask D | PASS |
| | | | 3dB above AGC | | PASS |
| | | MCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | | HCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | C4FM | LCH | Pre-AGC | Mask D | PASS |
| | | | 3dB above AGC | | PASS |
| | | MCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | | HCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |



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| Emission Masks | | | | | |
|----------------|-------------|--------------|---------------|---------------|---------|
| Test path | Test signal | Test channel | Signal level | Emission mask | Verdict |
| UL | H-DQPSK | LCH | Pre-AGC | MASK D | PASS |
| | | | 3dB above AGC | | PASS |
| | | MCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | | HCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | TETRA | LCH | Pre-AGC | MASK B | PASS |
| | | | 3dB above AGC | | PASS |
| | | MCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |
| | | HCH | Pre-AGC | | PASS |
| | | | 3dB above AGC | | PASS |

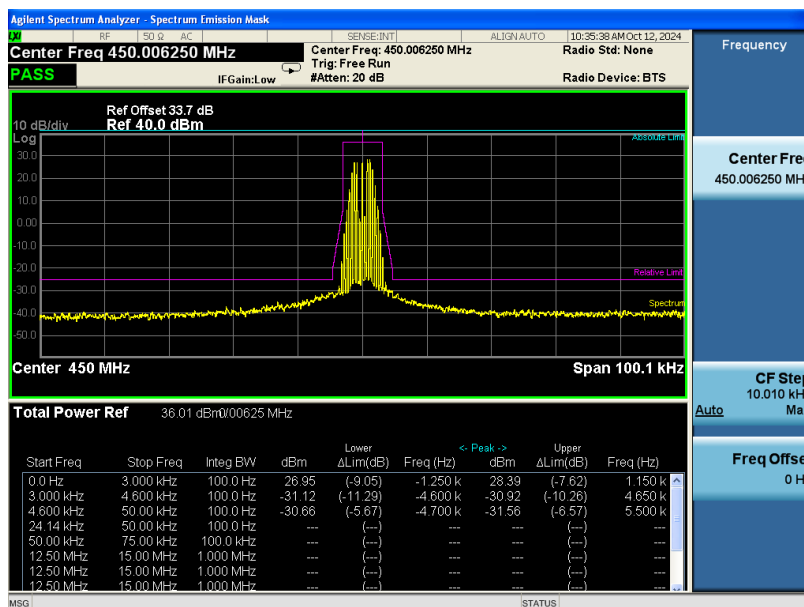


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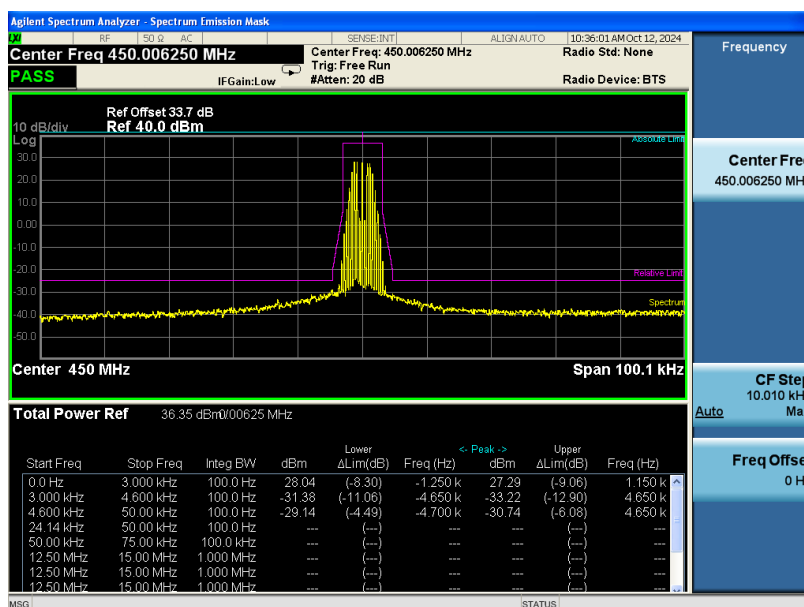
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Emission Masks

DL_FM_LCH_Pre-AGC

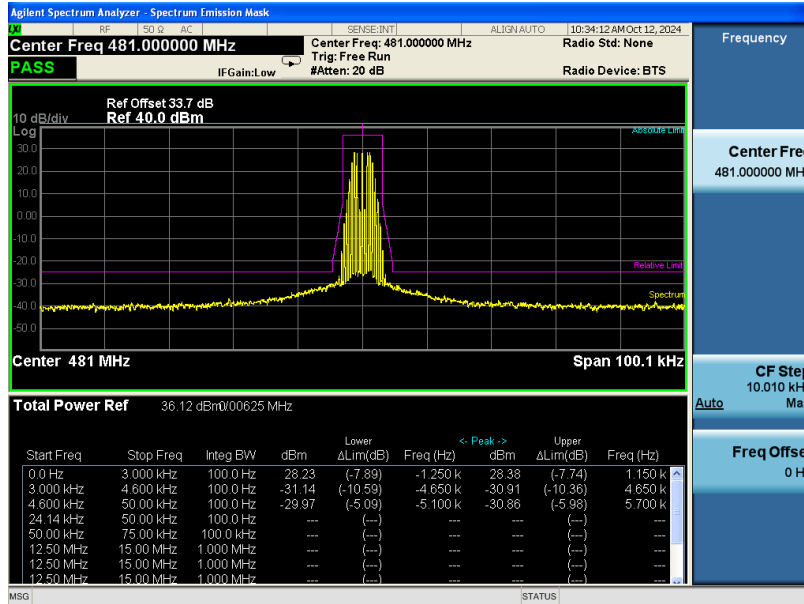


DL_FM_LCH_3dB above AGC

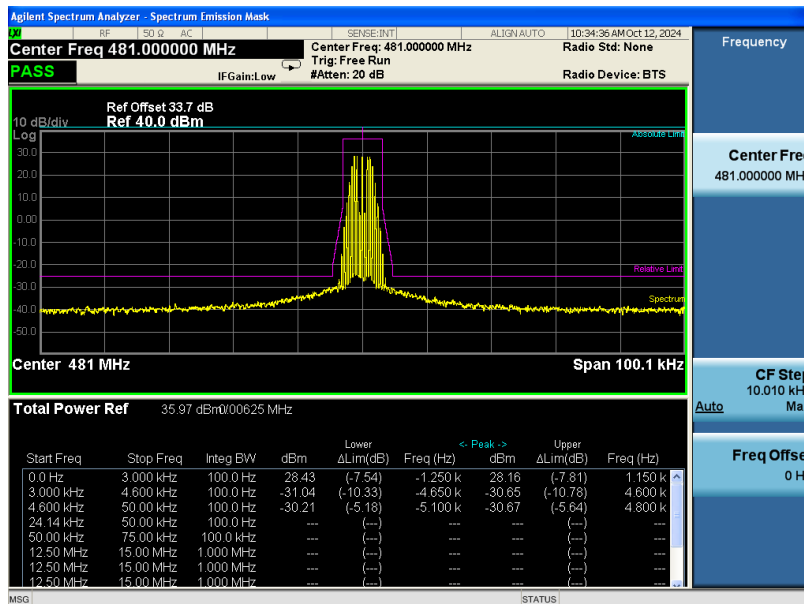


Emission Masks

DL_FM_MCH_Pre-AGC

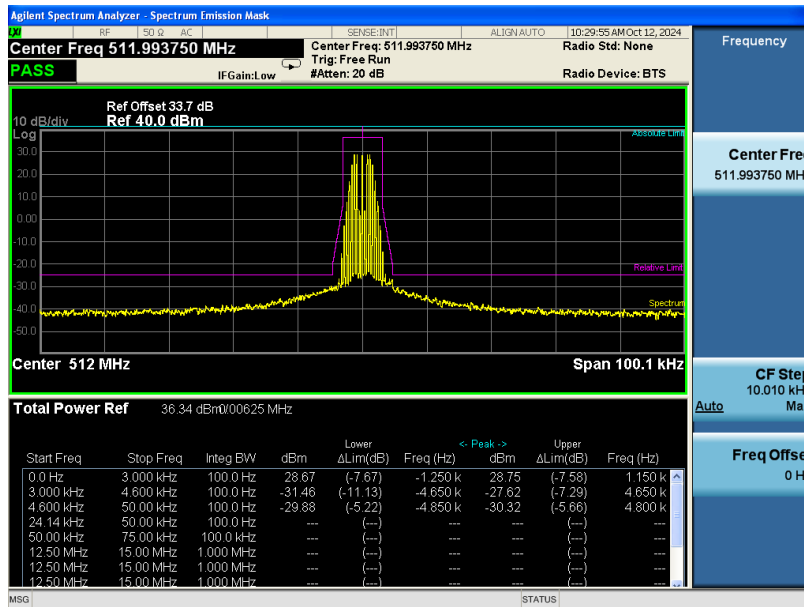


DL_FM_MCH_3dB above AGC

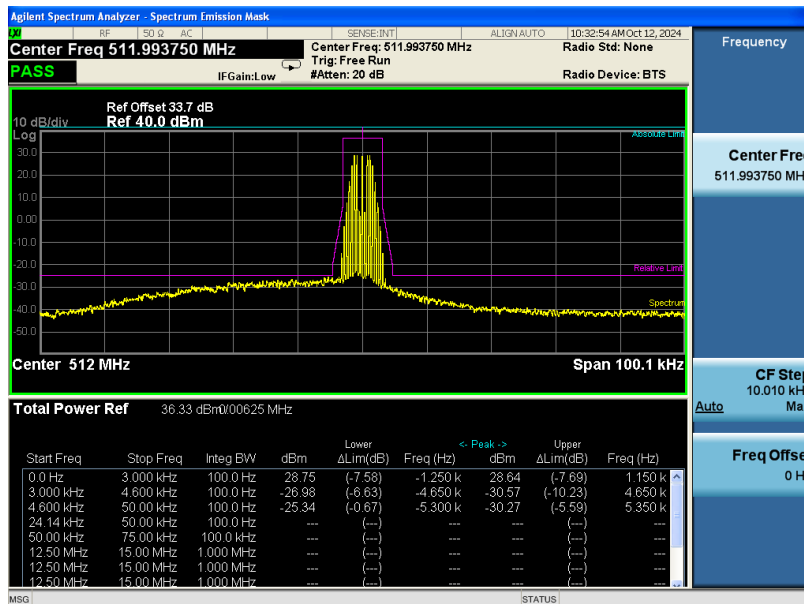


Emission Masks

DL_FM_HCH_Pre-AGC



DL_FM_HCH_3dB above AGC



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