

| | | | |
|-----------------|-------------------------|----------------|--------|
| Product | Module | | |
| Test Item | RF Output Power | | |
| Test Mode | Mode 11: LTE CA Band 5B | | |
| Date of Test | 2020/12/31 | Test Site | SR12-H |
| Temperature(°C) | 20 | Humidity (%RH) | 59 |

| Band | PCC | | | | | SCC | | | | | Power | | | ERP Power | | | Limit (W) ERP | |
|------|-----------------|------------|--------------------|-----------|--------------|------|-----------------|------------|--------------------|-----------|--------------|------------|--------------|--------------|-----------------------------|-------------------------------|---------------|-------------------------------|
| | Bandwidth (MHz) | UL Channel | UL Frequency (MHz) | UL RB No. | UL RB offset | Band | Bandwidth (MHz) | UL Channel | UL Frequency (MHz) | UL RB No. | UL RB offset | QPSK (dBm) | 16-QAM (dBm) | 64-QAM (dBm) | QPSK RF Output Power(W) ERP | 16-QAM RF Output Power(W) ERP | | 64-QAM RF Output Power(W) ERP |
| 5 | 5 | 20428 | 826.8 | 1 | 24 | 5 | 10 | 20500 | 834 | 1 | 0 | 21.89 | 21.10 | 19.30 | 0.149 | 0.124 | 0.082 | 7 |
| 5 | 5 | 20428 | 826.8 | 25 | 0 | 5 | 10 | 20500 | 834 | 50 | 0 | 19.93 | 18.99 | 18.40 | 0.095 | 0.077 | 0.067 | 7 |
| 5 | 5 | 20478 | 831.8 | 1 | 24 | 5 | 10 | 20550 | 839 | 1 | 0 | 21.97 | 21.08 | 19.12 | 0.152 | 0.124 | 0.079 | 7 |
| 5 | 5 | 20478 | 831.8 | 25 | 0 | 5 | 10 | 20550 | 839 | 50 | 0 | 20.01 | 19.05 | 19.04 | 0.097 | 0.078 | 0.077 | 7 |
| 5 | 5 | 20528 | 836.8 | 1 | 24 | 5 | 10 | 20600 | 844 | 1 | 0 | 21.73 | 21.03 | 20.11 | 0.144 | 0.122 | 0.099 | 7 |
| 5 | 5 | 20528 | 836.8 | 25 | 0 | 5 | 10 | 20600 | 844 | 50 | 0 | 20.14 | 19.11 | 19.09 | 0.100 | 0.079 | 0.078 | 7 |
| 5 | 10 | 20450 | 829 | 1 | 49 | 5 | 5 | 20522 | 836.2 | 1 | 0 | 23.04 | 21.10 | 19.01 | 0.195 | 0.124 | 0.077 | 7 |
| 5 | 10 | 20450 | 829 | 50 | 0 | 5 | 5 | 20522 | 836.2 | 25 | 0 | 20.72 | 19.72 | 19.69 | 0.114 | 0.091 | 0.090 | 7 |
| 5 | 10 | 20500 | 834 | 1 | 49 | 5 | 5 | 20572 | 841.2 | 1 | 0 | 21.81 | 20.97 | 19.34 | 0.147 | 0.121 | 0.083 | 7 |
| 5 | 10 | 20500 | 834 | 50 | 0 | 5 | 5 | 20572 | 841.2 | 25 | 0 | 20.07 | 19.13 | 19.10 | 0.098 | 0.079 | 0.079 | 7 |
| 5 | 10 | 20550 | 839 | 1 | 49 | 5 | 5 | 20622 | 846.2 | 1 | 0 | 19.97 | 18.91 | 17.34 | 0.096 | 0.075 | 0.052 | 7 |
| 5 | 10 | 20550 | 839 | 50 | 0 | 5 | 5 | 20622 | 846.2 | 25 | 0 | 19.54 | 18.56 | 18.44 | 0.087 | 0.069 | 0.067 | 7 |
| 5 | 10 | 20450 | 829 | 1 | 49 | 5 | 10 | 20549 | 838.9 | 1 | 0 | 23.25 | 21.45 | 19.53 | 0.204 | 0.135 | 0.087 | 7 |
| 5 | 10 | 20450 | 829 | 50 | 0 | 5 | 10 | 20549 | 838.9 | 50 | 0 | 20.90 | 19.96 | 19.88 | 0.119 | 0.096 | 0.094 | 7 |
| 5 | 10 | 20476 | 831.6 | 1 | 49 | 5 | 10 | 20575 | 841.5 | 1 | 0 | 22.16 | 21.20 | 19.39 | 0.159 | 0.127 | 0.084 | 7 |
| 5 | 10 | 20476 | 831.6 | 50 | 0 | 5 | 10 | 20575 | 841.5 | 50 | 0 | 20.34 | 18.39 | 18.37 | 0.104 | 0.067 | 0.066 | 7 |
| 5 | 10 | 20501 | 834.1 | 1 | 49 | 5 | 10 | 20600 | 844 | 1 | 0 | 21.90 | 20.90 | 19.02 | 0.150 | 0.119 | 0.077 | 7 |
| 5 | 10 | 20501 | 834.1 | 50 | 0 | 5 | 10 | 20600 | 844 | 50 | 0 | 20.00 | 19.06 | 19.14 | 0.097 | 0.078 | 0.079 | 7 |

Note:

1. Measure Level (ERP) = Reading Level (dBm) + Antenna Gain(dBi)-2.15dB
2. power (W)= (10^{(power(dBm)/10)})*10⁻³

| | | | |
|-----------------|-------------------------|----------------|--------|
| Product | Module | | |
| Test Item | RF Output Power | | |
| Test Mode | Mode 12: LTE CA Band 7C | | |
| Date of Test | 2020/12/31 | Test Site | SR12-H |
| Temperature(°C) | 20 | Humidity (%RH) | 59 |

| Band | Bandwidth (MHz) | PCC | | | SCC | | | Power | | | ERP Power | | | Limit (W) EIRP | | |
|------|-----------------|------------|--------------------|-----------------------|------|-----------------|------------|--------------------|-----------------------|------------|--------------|--------------|------------------------------|----------------|--------------------------------|--------------------------------|
| | | UL Channel | UL Frequency (MHz) | UL RB No. / RB offset | Band | Bandwidth (MHz) | UL Channel | UL Frequency (MHz) | UL RB No. / RB offset | QPSK (dBm) | 16-QAM (dBm) | 64-QAM (dBm) | QPSK RF Output Power(W) EIRP | | 16-QAM RF Output Power(W) EIRP | 64-QAM RF Output Power(W) EIRP |
| 7 | 10 | 20805 | 2505.5 | 1 / 49 | 7 | 20 | 20949 | 2519.9 | 1 / 0 | 22.31 | 21.15 | 19.12 | 0.27 | 0.207 | 0.129 | 2 |
| 7 | 10 | 20805 | 2505.5 | 50 / 0 | 7 | 20 | 20949 | 2519.9 | 100 / 0 | 20.21 | 19.22 | 19.05 | 0.166 | 0.132 | 0.127 | 2 |
| 7 | 10 | 21006 | 2525.6 | 1 / 49 | 7 | 20 | 21150 | 2540 | 1 / 0 | 22.37 | 21.39 | 19.28 | 0.274 | 0.218 | 0.134 | 2 |
| 7 | 10 | 21006 | 2525.6 | 50 / 0 | 7 | 20 | 21150 | 2540 | 100 / 0 | 20.42 | 19.42 | 19.40 | 0.175 | 0.139 | 0.138 | 2 |
| 7 | 10 | 21206 | 2545.6 | 1 / 49 | 7 | 20 | 21350 | 2560 | 1 / 0 | 22.27 | 21.39 | 19.11 | 0.267 | 0.218 | 0.129 | 2 |
| 7 | 10 | 21206 | 2545.6 | 50 / 0 | 7 | 20 | 21350 | 2560 | 100 / 0 | 20.34 | 19.35 | 19.39 | 0.171 | 0.136 | 0.138 | 2 |
| 7 | 20 | 20850 | 2510 | 1 / 99 | 7 | 10 | 20994 | 2524.4 | 1 / 0 | 22.43 | 21.75 | 19.69 | 0.277 | 0.237 | 0.148 | 2 |
| 7 | 20 | 20850 | 2510 | 100 / 0 | 7 | 10 | 20994 | 2524.4 | 50 / 0 | 20.27 | 19.32 | 19.05 | 0.169 | 0.136 | 0.127 | 2 |
| 7 | 20 | 21051 | 2530.1 | 1 / 99 | 7 | 10 | 21195 | 2544.5 | 1 / 0 | 22.52 | 21.76 | 19.49 | 0.283 | 0.238 | 0.141 | 2 |
| 7 | 20 | 21051 | 2530.1 | 100 / 0 | 7 | 10 | 21195 | 2544.5 | 50 / 0 | 20.55 | 19.51 | 19.05 | 0.18 | 0.142 | 0.127 | 2 |
| 7 | 20 | 21251 | 2550.1 | 1 / 99 | 7 | 10 | 21395 | 2564.5 | 1 / 0 | 22.44 | 21.50 | 19.19 | 0.278 | 0.224 | 0.132 | 2 |
| 7 | 20 | 21251 | 2550.1 | 100 / 0 | 7 | 10 | 21395 | 2564.5 | 50 / 0 | 20.48 | 19.44 | 19.06 | 0.177 | 0.139 | 0.128 | 2 |
| 7 | 15 | 20825 | 2507.5 | 1 / 74 | 7 | 10 | 20945 | 2519.5 | 1 / 0 | 22.30 | 21.42 | 19.54 | 0.269 | 0.22 | 0.143 | 2 |
| 7 | 15 | 20825 | 2507.5 | 75 / 0 | 7 | 10 | 20945 | 2519.5 | 50 / 0 | 20.23 | 19.22 | 19.17 | 0.167 | 0.132 | 0.131 | 2 |
| 7 | 15 | 21051 | 2530.1 | 1 / 74 | 7 | 10 | 21171 | 2542.1 | 1 / 0 | 22.39 | 21.92 | 19.34 | 0.275 | 0.247 | 0.136 | 2 |
| 7 | 15 | 21051 | 2530.1 | 75 / 0 | 7 | 10 | 21171 | 2542.1 | 50 / 0 | 20.48 | 19.50 | 19.63 | 0.177 | 0.141 | 0.146 | 2 |
| 7 | 15 | 21277 | 2552.7 | 1 / 74 | 7 | 10 | 21397 | 2564.7 | 1 / 0 | 22.53 | 21.52 | 19.56 | 0.284 | 0.225 | 0.143 | 2 |
| 7 | 15 | 21277 | 2552.7 | 75 / 0 | 7 | 10 | 21397 | 2564.7 | 50 / 0 | 20.43 | 19.44 | 19.17 | 0.175 | 0.139 | 0.131 | 2 |
| 7 | 15 | 20825 | 2507.5 | 1 / 74 | 7 | 15 | 20975 | 2522.5 | 1 / 0 | 22.29 | 21.39 | 19.37 | 0.269 | 0.218 | 0.137 | 2 |
| 7 | 15 | 20825 | 2507.5 | 75 / 0 | 7 | 15 | 20975 | 2522.5 | 75 / 0 | 20.21 | 19.22 | 19.08 | 0.166 | 0.132 | 0.128 | 2 |
| 7 | 15 | 21025 | 2527.5 | 1 / 74 | 7 | 15 | 21175 | 2542.5 | 1 / 0 | 22.36 | 22.12 | 19.50 | 0.273 | 0.258 | 0.141 | 2 |
| 7 | 15 | 21025 | 2527.5 | 75 / 0 | 7 | 15 | 21175 | 2542.5 | 75 / 0 | 20.47 | 19.45 | 19.61 | 0.177 | 0.14 | 0.145 | 2 |
| 7 | 15 | 21225 | 2547.5 | 1 / 74 | 7 | 15 | 21375 | 2562.5 | 1 / 0 | 22.47 | 21.53 | 19.31 | 0.28 | 0.225 | 0.135 | 2 |
| 7 | 15 | 21225 | 2547.5 | 75 / 0 | 7 | 15 | 21375 | 2562.5 | 75 / 0 | 20.39 | 19.39 | 19.21 | 0.173 | 0.138 | 0.132 | 2 |
| 7 | 15 | 20828 | 2507.8 | 1 / 74 | 7 | 20 | 20999 | 2524.9 | 1 / 0 | 22.25 | 21.29 | 19.13 | 0.266 | 0.213 | 0.13 | 2 |
| 7 | 15 | 20828 | 2507.8 | 75 / 0 | 7 | 20 | 20999 | 2524.9 | 100 / 0 | 20.21 | 19.20 | 19.09 | 0.166 | 0.132 | 0.129 | 2 |
| 7 | 15 | 21003 | 2525.3 | 1 / 74 | 7 | 20 | 21174 | 2542.4 | 1 / 0 | 22.40 | 21.46 | 19.43 | 0.275 | 0.222 | 0.139 | 2 |
| 7 | 15 | 21003 | 2525.3 | 75 / 0 | 7 | 20 | 21174 | 2542.4 | 100 / 0 | 20.44 | 19.40 | 19.40 | 0.175 | 0.138 | 0.138 | 2 |
| 7 | 15 | 21179 | 2542.9 | 1 / 74 | 7 | 20 | 21350 | 2560 | 1 / 0 | 22.26 | 21.74 | 19.53 | 0.267 | 0.237 | 0.142 | 2 |
| 7 | 15 | 21179 | 2542.9 | 75 / 0 | 7 | 20 | 21350 | 2560 | 100 / 0 | 20.36 | 19.35 | 19.45 | 0.172 | 0.136 | 0.14 | 2 |
| 7 | 20 | 20850 | 2510 | 1 / 99 | 7 | 15 | 21021 | 2527.1 | 1 / 0 | 22.51 | 21.72 | 19.26 | 0.282 | 0.236 | 0.134 | 2 |
| 7 | 20 | 20850 | 2510 | 100 / 0 | 7 | 15 | 21021 | 2527.1 | 75 / 0 | 20.29 | 19.27 | 19.42 | 0.169 | 0.134 | 0.139 | 2 |
| 7 | 20 | 21026 | 2527.6 | 1 / 99 | 7 | 15 | 21197 | 2544.7 | 1 / 0 | 22.69 | 21.71 | 19.52 | 0.294 | 0.235 | 0.142 | 2 |
| 7 | 20 | 21026 | 2527.6 | 100 / 0 | 7 | 15 | 21197 | 2544.7 | 75 / 0 | 20.48 | 19.50 | 19.39 | 0.177 | 0.141 | 0.138 | 2 |
| 7 | 20 | 21201 | 2545.1 | 1 / 99 | 7 | 15 | 21372 | 2562.2 | 1 / 0 | 22.42 | 21.52 | 19.68 | 0.277 | 0.225 | 0.147 | 2 |
| 7 | 20 | 21201 | 2545.1 | 100 / 0 | 7 | 15 | 21372 | 2562.2 | 75 / 0 | 20.42 | 19.41 | 19.58 | 0.175 | 0.138 | 0.144 | 2 |
| 7 | 20 | 20850 | 2510 | 1 / 99 | 7 | 20 | 21048 | 2529.8 | 1 / 0 | 22.84 | 21.80 | 19.12 | 0.305 | 0.24 | 0.129 | 2 |
| 7 | 20 | 20850 | 2510 | 100 / 0 | 7 | 20 | 21048 | 2529.8 | 100 / 0 | 20.24 | 19.22 | 19.19 | 0.167 | 0.132 | 0.132 | 2 |
| 7 | 20 | 21001 | 2525.1 | 1 / 99 | 7 | 20 | 21199 | 2544.9 | 1 / 0 | 22.58 | 21.76 | 19.62 | 0.287 | 0.238 | 0.145 | 2 |
| 7 | 20 | 21001 | 2525.1 | 100 / 0 | 7 | 20 | 21199 | 2544.9 | 100 / 0 | 20.43 | 19.45 | 19.39 | 0.175 | 0.14 | 0.138 | 2 |
| 7 | 20 | 21152 | 2540.2 | 1 / 99 | 7 | 20 | 21350 | 2560 | 1 / 0 | 22.44 | 21.56 | 19.39 | 0.278 | 0.227 | 0.138 | 2 |
| 7 | 20 | 21152 | 2540.2 | 100 / 0 | 7 | 20 | 21350 | 2560 | 100 / 0 | 20.38 | 19.37 | 19.52 | 0.173 | 0.137 | 0.142 | 2 |

Note:

1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= (10^{(power(dBm)/10)})*10⁻³

| | | | |
|-----------------|--------------------------------|----------------|--------|
| Product | Module | | |
| Test Item | RF Output Power | | |
| Test Mode | Mode 13: LTE CA Band 41C (FCC) | | |
| Date of Test | 2020/12/31 | Test Site | SR12-H |
| Temperature(°C) | 20 | Humidity (%RH) | 59 |

| Band | PCC | | | | | SCC | | | | | Power | | | ERP Power | | | Limit (W) EIRP | |
|------|-----------------|------------|--------------------|-----------|--------------|------|-----------------|------------|--------------------|-----------|--------------|------------|--------------|--------------|------------------------------|--------------------------------|----------------|--------------------------------|
| | Bandwidth (MHz) | UL Channel | UL Frequency (MHz) | UL RB No. | UL RB offset | Band | Bandwidth (MHz) | UL Channel | UL Frequency (MHz) | UL RB No. | UL RB offset | QPSK (dBm) | 16-QAM (dBm) | 64-QAM (dBm) | QPSK RF Output Power(W) EIRP | 16-QAM RF Output Power(W) EIRP | | 64-QAM RF Output Power(W) EIRP |
| 41 | 5 | 39683 | 2499.3 | 1 | 24 | 41 | 20 | 39800 | 2511 | 1 | 0 | 22.22 | 21.38 | 20.36 | 0.264 | 0.218 | 0.172 | 2 |
| 41 | 5 | 39683 | 2499.3 | 25 | 0 | 41 | 20 | 39800 | 2511 | 100 | 0 | 20.07 | 19.22 | 19.23 | 0.161 | 0.132 | 0.133 | 2 |
| 41 | 5 | 40528 | 2583.8 | 1 | 24 | 41 | 20 | 40645 | 2595.5 | 1 | 0 | 22.65 | 21.84 | 20.60 | 0.292 | 0.242 | 0.182 | 2 |
| 41 | 5 | 40528 | 2583.8 | 25 | 0 | 41 | 20 | 40645 | 2595.5 | 100 | 0 | 20.58 | 19.57 | 19.56 | 0.181 | 0.144 | 0.143 | 2 |
| 41 | 5 | 41373 | 2668.3 | 1 | 24 | 41 | 20 | 41490 | 2680 | 1 | 0 | 22.58 | 21.60 | 20.40 | 0.287 | 0.229 | 0.174 | 2 |
| 41 | 5 | 41373 | 2668.3 | 25 | 0 | 41 | 20 | 41490 | 2680 | 100 | 0 | 20.35 | 19.40 | 19.33 | 0.172 | 0.138 | 0.136 | 2 |
| 41 | 20 | 39750 | 2506 | 1 | 98 | 41 | 5 | 39867 | 2517.7 | 1 | 0 | 22.37 | 21.53 | 20.29 | 0.274 | 0.225 | 0.169 | 2 |
| 41 | 20 | 39750 | 2506 | 100 | 0 | 41 | 5 | 39867 | 2517.7 | 25 | 0 | 20.27 | 19.26 | 19.32 | 0.169 | 0.134 | 0.136 | 2 |
| 41 | 20 | 40595 | 2590.5 | 1 | 99 | 41 | 5 | 40712 | 2602.2 | 1 | 0 | 22.68 | 21.87 | 20.54 | 0.294 | 0.244 | 0.179 | 2 |
| 41 | 20 | 40595 | 2590.5 | 100 | 0 | 41 | 5 | 40712 | 2602.2 | 25 | 0 | 20.63 | 19.63 | 19.59 | 0.183 | 0.146 | 0.144 | 2 |
| 41 | 20 | 41440 | 2675 | 1 | 99 | 41 | 5 | 41557 | 2686.7 | 1 | 0 | 22.06 | 21.28 | 19.25 | 0.255 | 0.213 | 0.133 | 2 |
| 41 | 20 | 41440 | 2675 | 100 | 0 | 41 | 5 | 41557 | 2686.7 | 25 | 0 | 20.40 | 19.18 | 19.22 | 0.174 | 0.131 | 0.132 | 2 |
| 41 | 10 | 39703 | 2501.3 | 1 | 48 | 41 | 15 | 39823 | 2513.3 | 1 | 0 | 22.23 | 21.25 | 21.30 | 0.265 | 0.211 | 0.214 | 2 |
| 41 | 10 | 39703 | 2501.3 | 50 | 0 | 41 | 15 | 39823 | 2513.3 | 75 | 0 | 20.23 | 19.29 | 19.30 | 0.167 | 0.135 | 0.135 | 2 |
| 41 | 10 | 40549 | 2585.9 | 1 | 49 | 41 | 15 | 40669 | 2597.9 | 1 | 0 | 22.59 | 21.68 | 20.62 | 0.288 | 0.233 | 0.183 | 2 |
| 41 | 10 | 40549 | 2585.9 | 50 | 0 | 41 | 15 | 40669 | 2597.9 | 75 | 0 | 20.60 | 19.61 | 19.60 | 0.182 | 0.145 | 0.145 | 2 |
| 41 | 10 | 41395 | 2670.5 | 1 | 49 | 41 | 15 | 41515 | 2682.5 | 1 | 0 | 22.38 | 21.28 | 20.42 | 0.274 | 0.213 | 0.175 | 2 |
| 41 | 10 | 41395 | 2670.5 | 50 | 0 | 41 | 15 | 41515 | 2682.5 | 75 | 0 | 20.39 | 19.38 | 19.40 | 0.173 | 0.137 | 0.138 | 2 |
| 41 | 15 | 39725 | 2503.5 | 1 | 74 | 41 | 10 | 39845 | 2515.5 | 1 | 0 | 22.29 | 21.27 | 20.31 | 0.269 | 0.212 | 0.170 | 2 |
| 41 | 15 | 39725 | 2503.5 | 75 | 0 | 41 | 10 | 39845 | 2515.5 | 50 | 0 | 20.28 | 19.29 | 19.28 | 0.169 | 0.135 | 0.134 | 2 |
| 41 | 15 | 40571 | 2588.1 | 1 | 74 | 41 | 10 | 40691 | 2600.1 | 1 | 0 | 22.55 | 21.89 | 20.58 | 0.285 | 0.245 | 0.181 | 2 |
| 41 | 15 | 40571 | 2588.1 | 75 | 0 | 41 | 10 | 40691 | 2600.1 | 50 | 0 | 20.61 | 19.61 | 19.57 | 0.182 | 0.145 | 0.144 | 2 |
| 41 | 15 | 41417 | 2672.7 | 1 | 74 | 41 | 10 | 41537 | 2684.7 | 1 | 0 | 22.40 | 21.24 | 20.43 | 0.275 | 0.211 | 0.175 | 2 |
| 41 | 15 | 41417 | 2672.7 | 75 | 0 | 41 | 10 | 41537 | 2684.7 | 50 | 0 | 20.28 | 19.28 | 19.34 | 0.169 | 0.134 | 0.136 | 2 |
| 41 | 10 | 39705 | 2501.5 | 1 | 49 | 41 | 20 | 39849 | 2515.9 | 1 | 0 | 22.16 | 21.18 | 20.31 | 0.261 | 0.208 | 0.170 | 2 |
| 41 | 10 | 39705 | 2501.5 | 50 | 0 | 41 | 20 | 39849 | 2515.9 | 100 | 0 | 20.30 | 19.30 | 19.28 | 0.170 | 0.135 | 0.134 | 2 |
| 41 | 10 | 40526 | 2583.6 | 1 | 48 | 41 | 20 | 40670 | 2598 | 1 | 0 | 22.52 | 21.68 | 20.73 | 0.283 | 0.233 | 0.187 | 2 |
| 41 | 10 | 40526 | 2583.6 | 50 | 0 | 41 | 20 | 40670 | 2598 | 100 | 0 | 20.64 | 19.62 | 19.70 | 0.184 | 0.145 | 0.148 | 2 |
| 41 | 10 | 41346 | 2665.6 | 1 | 49 | 41 | 20 | 41490 | 2680 | 1 | 0 | 22.43 | 21.31 | 20.55 | 0.277 | 0.214 | 0.180 | 2 |
| 41 | 10 | 41346 | 2665.6 | 50 | 0 | 41 | 20 | 41490 | 2680 | 100 | 0 | 20.31 | 19.36 | 19.45 | 0.170 | 0.137 | 0.140 | 2 |
| 41 | 20 | 39750 | 2506 | 1 | 98 | 41 | 10 | 39894 | 2520.4 | 1 | 0 | 22.43 | 21.50 | 20.38 | 0.277 | 0.224 | 0.173 | 2 |
| 41 | 20 | 39750 | 2506 | 100 | 0 | 41 | 10 | 39894 | 2520.4 | 50 | 0 | 20.24 | 19.27 | 19.26 | 0.167 | 0.134 | 0.134 | 2 |
| 41 | 20 | 40571 | 2588.1 | 1 | 99 | 41 | 10 | 40715 | 2602.5 | 1 | 0 | 22.65 | 21.84 | 20.55 | 0.292 | 0.242 | 0.180 | 2 |
| 41 | 20 | 40571 | 2588.1 | 100 | 0 | 41 | 10 | 40715 | 2602.5 | 50 | 0 | 20.62 | 19.64 | 19.71 | 0.183 | 0.146 | 0.148 | 2 |
| 41 | 20 | 41391 | 2670.1 | 1 | 99 | 41 | 10 | 41535 | 2684.5 | 1 | 0 | 22.06 | 21.30 | 19.78 | 0.255 | 0.214 | 0.151 | 2 |
| 41 | 20 | 41391 | 2670.1 | 100 | 0 | 41 | 10 | 41535 | 2684.5 | 50 | 0 | 20.31 | 19.36 | 19.43 | 0.170 | 0.137 | 0.139 | 2 |
| 41 | 15 | 39725 | 2503.5 | 1 | 74 | 41 | 15 | 39875 | 2518.5 | 1 | 0 | 22.30 | 21.18 | 20.45 | 0.269 | 0.208 | 0.176 | 2 |
| 41 | 15 | 39725 | 2503.5 | 75 | 0 | 41 | 15 | 39875 | 2518.5 | 75 | 0 | 20.21 | 19.23 | 19.35 | 0.166 | 0.133 | 0.136 | 2 |
| 41 | 15 | 40545 | 2585.5 | 1 | 74 | 41 | 15 | 40695 | 2600.5 | 1 | 0 | 22.52 | 21.90 | 20.59 | 0.283 | 0.245 | 0.182 | 2 |
| 41 | 15 | 40545 | 2585.5 | 75 | 0 | 41 | 15 | 40695 | 2600.5 | 75 | 0 | 20.55 | 19.60 | 19.62 | 0.180 | 0.145 | 0.145 | 2 |
| 41 | 15 | 41365 | 2667.5 | 1 | 74 | 41 | 15 | 41515 | 2682.5 | 1 | 0 | 22.44 | 21.26 | 20.43 | 0.278 | 0.212 | 0.175 | 2 |
| 41 | 15 | 41365 | 2667.5 | 75 | 0 | 41 | 15 | 41515 | 2682.5 | 75 | 0 | 20.33 | 19.31 | 19.34 | 0.171 | 0.135 | 0.136 | 2 |
| 41 | 15 | 39728 | 2503.8 | 1 | 74 | 41 | 20 | 39899 | 2520.9 | 1 | 0 | 22.18 | 21.25 | 20.31 | 0.262 | 0.211 | 0.170 | 2 |
| 41 | 15 | 39728 | 2503.8 | 75 | 0 | 41 | 20 | 39899 | 2520.9 | 100 | 0 | 20.12 | 19.15 | 19.28 | 0.163 | 0.130 | 0.134 | 2 |
| 41 | 15 | 40523 | 2583.3 | 1 | 74 | 41 | 20 | 40694 | 2600.4 | 1 | 0 | 22.61 | 21.85 | 20.54 | 0.289 | 0.243 | 0.179 | 2 |
| 41 | 15 | 40523 | 2583.3 | 75 | 0 | 41 | 20 | 40694 | 2600.4 | 100 | 0 | 20.60 | 19.63 | 19.58 | 0.182 | 0.146 | 0.144 | 2 |
| 41 | 15 | 41319 | 2662.9 | 1 | 74 | 41 | 20 | 41490 | 2680 | 1 | 0 | 22.62 | 21.31 | 20.29 | 0.290 | 0.214 | 0.169 | 2 |
| 41 | 15 | 41319 | 2662.9 | 75 | 0 | 41 | 20 | 41490 | 2680 | 100 | 0 | 20.32 | 19.30 | 19.34 | 0.171 | 0.135 | 0.136 | 2 |

| PCC | | | | | | SCC | | | | | Power | | | ERP Power | | | Limit | |
|------|-----------------|------------|--------------------|-----------|--------------|------|-----------------|------------|--------------------|-----------|--------------|------------|--------------|--------------|------------------------------|--------------------------------|--------------------------------|----------------|
| Band | Bandwidth (MHz) | UL Channel | UL Frequency (MHz) | UL RB No. | UL RB offset | Band | Bandwidth (MHz) | UL Channel | UL Frequency (MHz) | UL RB No. | UL RB offset | QPSK (dBm) | 16-QAM (dBm) | 64-QAM (dBm) | QPSK RF Output Power(W) EIRP | 16-QAM RF Output Power(W) EIRP | 64-QAM RF Output Power(W) EIRP | Limit (W) EIRP |
| 4L | 20 | 39750 | 2506 | 1 | 99 | 4L | 15 | 39921 | 2523.1 | 1 | 0 | 22.39 | 21.53 | 20.34 | 0.275 | 0.225 | 0.171 | 2 |
| 4L | 20 | 39750 | 2506 | 100 | 0 | 4L | 15 | 39921 | 2523.1 | 75 | 0 | 20.22 | 19.22 | 19.30 | 0.167 | 0.132 | 0.135 | 2 |
| 4L | 20 | 40546 | 2585.6 | 1 | 99 | 4L | 15 | 40717 | 2602.7 | 1 | 0 | 22.29 | 21.89 | 20.70 | 0.269 | 0.245 | 0.186 | 2 |
| 4L | 20 | 40546 | 2585.6 | 100 | 0 | 4L | 15 | 40717 | 2602.7 | 75 | 0 | 20.65 | 19.66 | 19.68 | 0.184 | 0.147 | 0.147 | 2 |
| 4L | 20 | 41341 | 2665.1 | 1 | 99 | 4L | 15 | 41512 | 2682.2 | 1 | 0 | 22.45 | 21.55 | 20.22 | 0.279 | 0.226 | 0.167 | 2 |
| 4L | 20 | 41341 | 2665.1 | 100 | 0 | 4L | 15 | 41512 | 2682.2 | 75 | 0 | 20.34 | 19.35 | 19.40 | 0.171 | 0.136 | 0.138 | 2 |
| 4L | 20 | 39750 | 2506 | 1 | 99 | 4L | 20 | 39948 | 2525.6 | 1 | 0 | 22.71 | 21.58 | 20.31 | 0.296 | 0.228 | 0.170 | 2 |
| 4L | 20 | 39750 | 2506 | 100 | 0 | 4L | 20 | 39948 | 2525.6 | 100 | 0 | 20.22 | 19.22 | 19.30 | 0.167 | 0.132 | 0.135 | 2 |
| 4L | 20 | 40521 | 2583.1 | 1 | 99 | 4L | 20 | 40719 | 2602.9 | 1 | 0 | 22.67 | 21.79 | 20.68 | 0.293 | 0.239 | 0.185 | 2 |
| 4L | 20 | 40521 | 2583.1 | 100 | 0 | 4L | 20 | 40719 | 2602.9 | 100 | 0 | 20.59 | 19.62 | 19.64 | 0.182 | 0.145 | 0.146 | 2 |
| 4L | 20 | 41292 | 2660.2 | 1 | 99 | 4L | 20 | 41490 | 2680 | 1 | 0 | 22.67 | 21.65 | 20.33 | 0.293 | 0.232 | 0.171 | 2 |
| 4L | 20 | 41292 | 2660.2 | 100 | 0 | 4L | 20 | 41490 | 2680 | 100 | 0 | 20.36 | 19.32 | 19.31 | 0.172 | 0.136 | 0.135 | 2 |

Note:

1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(\text{power(dBm)}/10)}) * 10^{-3}$

| | | | |
|-----------------|---------------------------------|----------------|--------|
| Product | Module | | |
| Test Item | RF Output Power | | |
| Test Mode | Mode 13: LTE CA Band 41C (ISED) | | |
| Date of Test | 2020/09/02 | Test Site | SR12-H |
| Temperature(°C) | 23 | Humidity (%RH) | 67 |

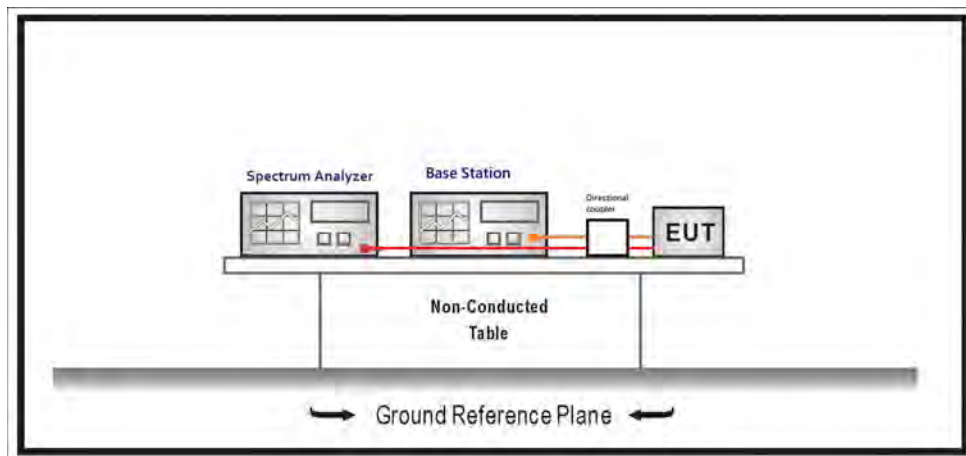
| Band | PCC | | | | | SCC | | | | | Power | | | ERP Power | | | Limit (W) EIRP | |
|------|-----------------|------------|--------------------|-----------|--------------|------|-----------------|------------|--------------------|-----------|--------------|------------|--------------|--------------|------------------------------|--------------------------------|----------------|--------------------------------|
| | Bandwidth (MHz) | UL Channel | UL Frequency (MHz) | UL RB No. | UL RB offset | Band | Bandwidth (MHz) | UL Channel | UL Frequency (MHz) | UL RB No. | UL RB offset | QPSK (dBm) | 16-QAM (dBm) | 64-QAM (dBm) | QPSK RF Output Power(W) EIRP | 16-QAM RF Output Power(W) EIRP | | 64-QAM RF Output Power(W) EIRP |
| 41 | 5 | 39715 | 2502.5 | 1 | 24 | 41 | 20 | 39832 | 2514.2 | 1 | 0 | 22.03 | 21.11 | 19.92 | 0.253 | 0.205 | 0.156 | 2 |
| 41 | 5 | 39715 | 2502.5 | 25 | 0 | 41 | 20 | 39832 | 2514.2 | 100 | 0 | 19.94 | 18.95 | 18.94 | 0.156 | 0.124 | 0.124 | 2 |
| 41 | 20 | 39790 | 2510 | 1 | 99 | 41 | 5 | 39907 | 2521.7 | 1 | 0 | 22.23 | 21.35 | 19.88 | 0.265 | 0.216 | 0.154 | 2 |
| 41 | 20 | 39790 | 2510 | 100 | 0 | 41 | 5 | 39907 | 2521.7 | 25 | 0 | 20.13 | 19.14 | 19.11 | 0.163 | 0.130 | 0.129 | 2 |
| 41 | 10 | 39740 | 2505 | 1 | 49 | 41 | 15 | 39860 | 2517 | 1 | 0 | 22.16 | 21.17 | 19.76 | 0.261 | 0.207 | 0.150 | 2 |
| 41 | 10 | 39740 | 2505 | 50 | 0 | 41 | 15 | 39860 | 2517 | 75 | 0 | 20.14 | 19.11 | 19.06 | 0.164 | 0.129 | 0.128 | 2 |
| 41 | 15 | 39765 | 2507.5 | 1 | 74 | 41 | 10 | 39885 | 2519.5 | 1 | 0 | 22.16 | 21.24 | 19.93 | 0.261 | 0.211 | 0.156 | 2 |
| 41 | 15 | 39765 | 2507.5 | 75 | 0 | 41 | 10 | 39885 | 2519.5 | 50 | 0 | 20.13 | 19.10 | 19.03 | 0.163 | 0.129 | 0.127 | 2 |
| 41 | 10 | 39740 | 2505 | 1 | 49 | 41 | 20 | 39884 | 2519.4 | 1 | 0 | 22.13 | 21.14 | 19.86 | 0.259 | 0.206 | 0.153 | 2 |
| 41 | 10 | 39740 | 2505 | 50 | 0 | 41 | 20 | 39884 | 2519.4 | 100 | 0 | 20.17 | 19.13 | 19.04 | 0.165 | 0.130 | 0.127 | 2 |
| 41 | 20 | 39790 | 2510 | 1 | 99 | 41 | 10 | 39934 | 2524.4 | 1 | 0 | 22.25 | 21.37 | 19.79 | 0.266 | 0.217 | 0.151 | 2 |
| 41 | 20 | 39790 | 2510 | 100 | 0 | 41 | 10 | 39934 | 2524.4 | 50 | 0 | 20.15 | 19.16 | 19.02 | 0.164 | 0.131 | 0.126 | 2 |
| 41 | 15 | 39765 | 2507.5 | 1 | 74 | 41 | 15 | 39915 | 2522.5 | 1 | 0 | 22.20 | 21.15 | 19.89 | 0.263 | 0.207 | 0.155 | 2 |
| 41 | 15 | 39765 | 2507.5 | 75 | 0 | 41 | 15 | 39915 | 2522.5 | 75 | 0 | 20.10 | 19.11 | 19.10 | 0.162 | 0.129 | 0.129 | 2 |
| 41 | 15 | 39765 | 2507.5 | 1 | 74 | 41 | 20 | 39936 | 2524.6 | 1 | 0 | 22.16 | 21.23 | 19.90 | 0.261 | 0.210 | 0.155 | 2 |
| 41 | 15 | 39765 | 2507.5 | 75 | 0 | 41 | 20 | 39936 | 2524.6 | 100 | 0 | 20.08 | 19.05 | 19.60 | 0.161 | 0.127 | 0.145 | 2 |
| 41 | 20 | 39790 | 2510 | 1 | 99 | 41 | 15 | 39961 | 2527.1 | 1 | 0 | 22.23 | 21.41 | 19.95 | 0.265 | 0.216 | 0.157 | 2 |
| 41 | 20 | 39790 | 2510 | 100 | 0 | 41 | 15 | 39961 | 2527.1 | 75 | 0 | 20.13 | 19.12 | 19.08 | 0.163 | 0.129 | 0.128 | 2 |
| 41 | 20 | 39790 | 2510 | 1 | 99 | 41 | 20 | 39988 | 2529.8 | 1 | 0 | 22.33 | 21.41 | 19.97 | 0.271 | 0.219 | 0.157 | 2 |
| 41 | 20 | 39790 | 2510 | 100 | 0 | 41 | 20 | 39988 | 2529.8 | 100 | 0 | 20.10 | 19.08 | 19.06 | 0.162 | 0.128 | 0.128 | 2 |

Note:

1. Measure Level (EIRP) = Reading Level (dBm) + Antenna Gain(dBi)
2. power (W)= $(10^{(\text{power(dBm)/10})}) * 10^{-3}$

4. Occupied Bandwidth

4.1. Test Setup



4.2. Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The 26 dB bandwidth and 99% occupied bandwidth of the low & middle & high channel for the highest RF powers were measured.

4.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 4.2 & 4.3
ANSI C63.26-2015 Sub-clause 5.4.3 & 5.4.4

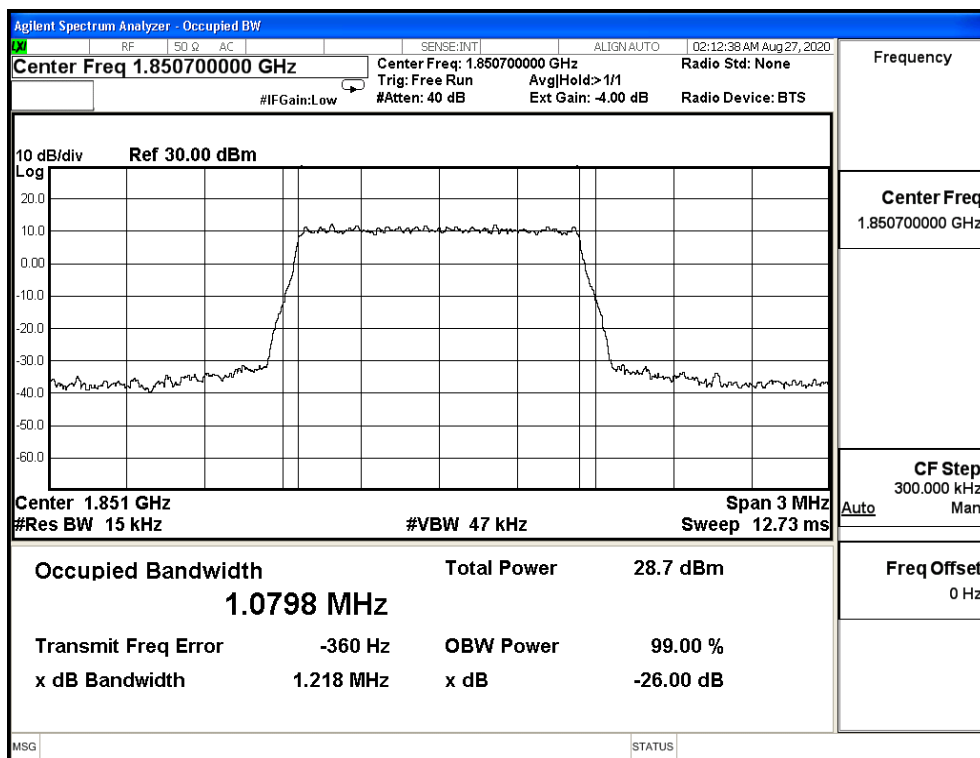
4.4. Test Result

| | | | |
|-----------------|-----------------------|----------------|--------|
| Product | Module | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 1: LTE Band 2/25 | | |
| Date of Test | 2020/09/02 | Test Site | SR12-H |
| Temperature(°C) | 24 | Humidity (%RH) | 60 |

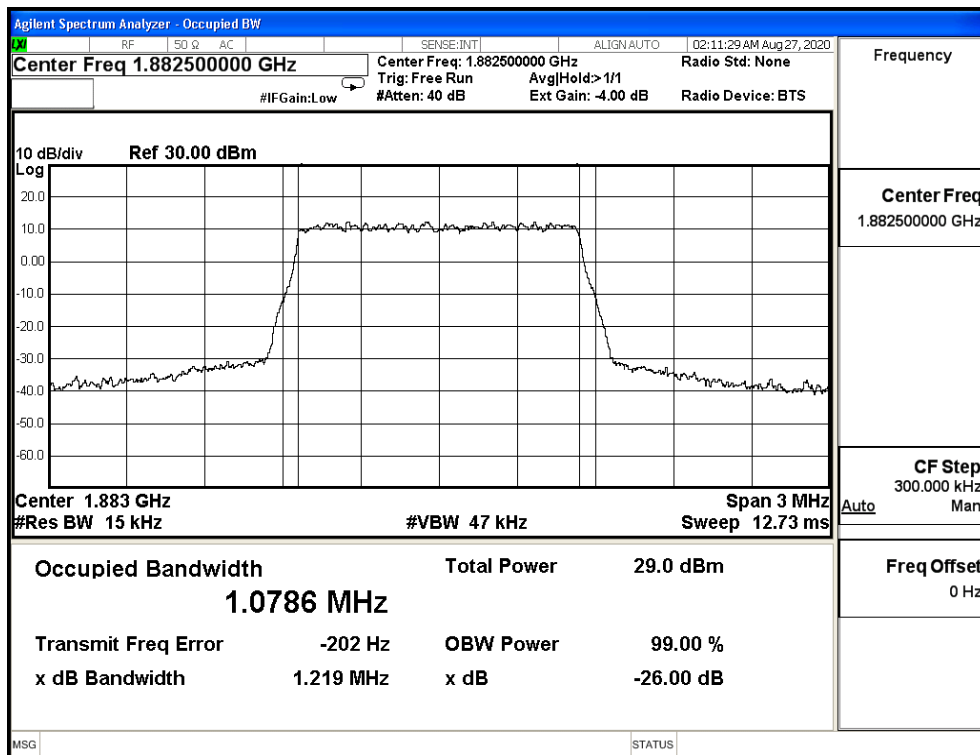
| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
|-----------------|------------|-----------------|---------------------|--------|-------------|
| | | | 26dB BW | 99% BW | |
| 1.4M | QPSK | 1850.7 | 1.218 | 1.080 | N/A |
| | | 1882.5 | 1.219 | 1.079 | N/A |
| | | 1914.3 | 1.205 | 1.087 | N/A |
| | 16-QAM | 1850.7 | 1.203 | 1.079 | N/A |
| | | 1882.5 | 1.225 | 1.081 | N/A |
| | | 1914.3 | 1.221 | 1.082 | N/A |
| | 64-QAM | 1850.7 | 1.211 | 1.079 | N/A |
| | | 1882.5 | 1.211 | 1.080 | N/A |
| | | 1914.3 | 1.211 | 1.080 | N/A |
| 3M | QPSK | 1851.5 | 2.940 | 2.691 | N/A |
| | | 1882.5 | 2.944 | 2.693 | N/A |
| | | 1913.5 | 2.951 | 2.687 | N/A |
| | 16-QAM | 1851.5 | 2.937 | 2.684 | N/A |
| | | 1882.5 | 2.946 | 2.684 | N/A |
| | | 1913.5 | 2.948 | 2.685 | N/A |
| | 64-QAM | 1851.5 | 2.919 | 2.683 | N/A |
| | | 1882.5 | 2.911 | 2.683 | N/A |
| | | 1913.5 | 2.907 | 2.685 | N/A |
| 5M | QPSK | 1852.5 | 4.869 | 4.469 | N/A |
| | | 1882.5 | 4.912 | 4.488 | N/A |
| | | 1912.5 | 4.892 | 4.476 | N/A |
| | 16-QAM | 1852.5 | 4.917 | 4.473 | N/A |
| | | 1882.5 | 4.824 | 4.469 | N/A |
| | | 1912.5 | 4.873 | 4.476 | N/A |
| | 64-QAM | 1852.5 | 4.844 | 4.479 | N/A |
| | | 1882.5 | 4.867 | 4.479 | N/A |
| | | 1912.5 | 4.893 | 4.488 | N/A |

| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
|-----------------|------------|-----------------|---------------------|--------|-------------|
| | | | 26dB BW | 99% BW | |
| 10M | QPSK | 1855 | 9.731 | 8.955 | N/A |
| | | 1882.5 | 9.688 | 8.948 | N/A |
| | | 1910 | 9.628 | 8.945 | N/A |
| | 16-QAM | 1855 | 9.668 | 8.941 | N/A |
| | | 1882.5 | 9.644 | 8.943 | N/A |
| | | 1910 | 9.608 | 8.935 | N/A |
| | 64-QAM | 1855 | 9.633 | 8.932 | N/A |
| | | 1882.5 | 9.643 | 8.938 | N/A |
| | | 1910 | 9.585 | 8.929 | N/A |
| 15M | QPSK | 1857.5 | 14.530 | 13.441 | N/A |
| | | 1882.5 | 14.500 | 13.403 | N/A |
| | | 1907.5 | 14.450 | 13.410 | N/A |
| | 16-QAM | 1857.5 | 14.470 | 13.419 | N/A |
| | | 1882.5 | 14.450 | 13.389 | N/A |
| | | 1907.5 | 14.390 | 13.416 | N/A |
| | 64-QAM | 1857.5 | 14.430 | 13.396 | N/A |
| | | 1882.5 | 14.350 | 13.365 | N/A |
| | | 1907.5 | 14.470 | 13.388 | N/A |
| 20M | QPSK | 1860 | 19.150 | 17.885 | N/A |
| | | 1882.5 | 19.010 | 17.834 | N/A |
| | | 1905 | 19.340 | 17.867 | N/A |
| | 16-QAM | 1860 | 19.110 | 17.867 | N/A |
| | | 1882.5 | 19.200 | 17.856 | N/A |
| | | 1905 | 19.150 | 17.821 | N/A |
| | 64-QAM | 1860 | 19.230 | 17.871 | N/A |
| | | 1882.5 | 19.270 | 17.846 | N/A |
| | | 1905 | 19.190 | 17.841 | N/A |

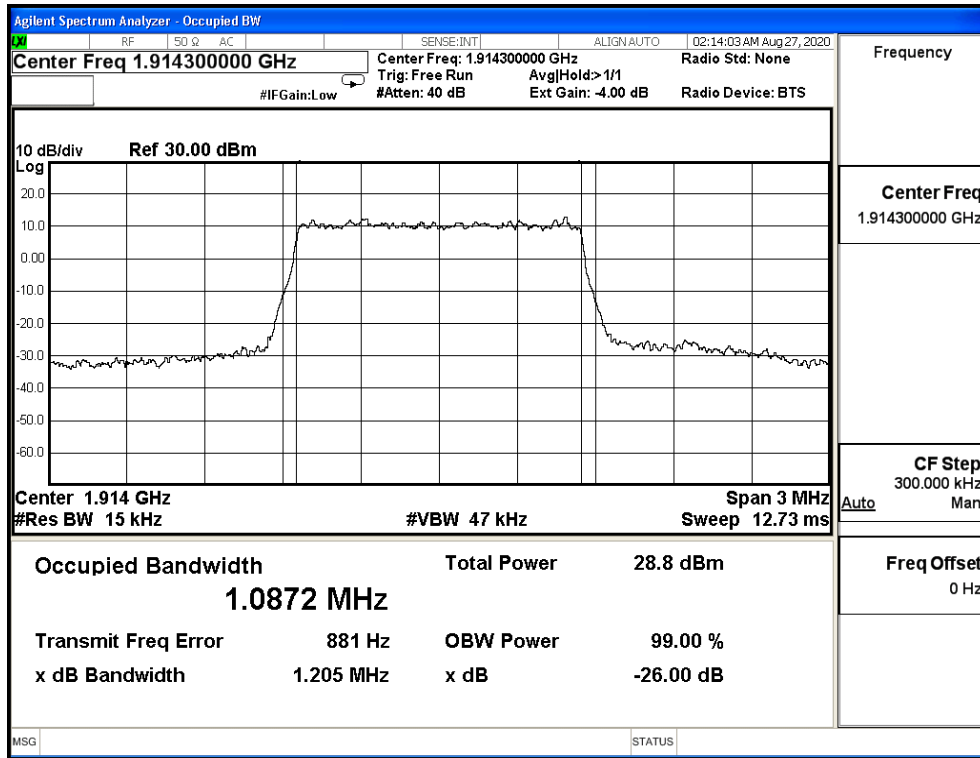
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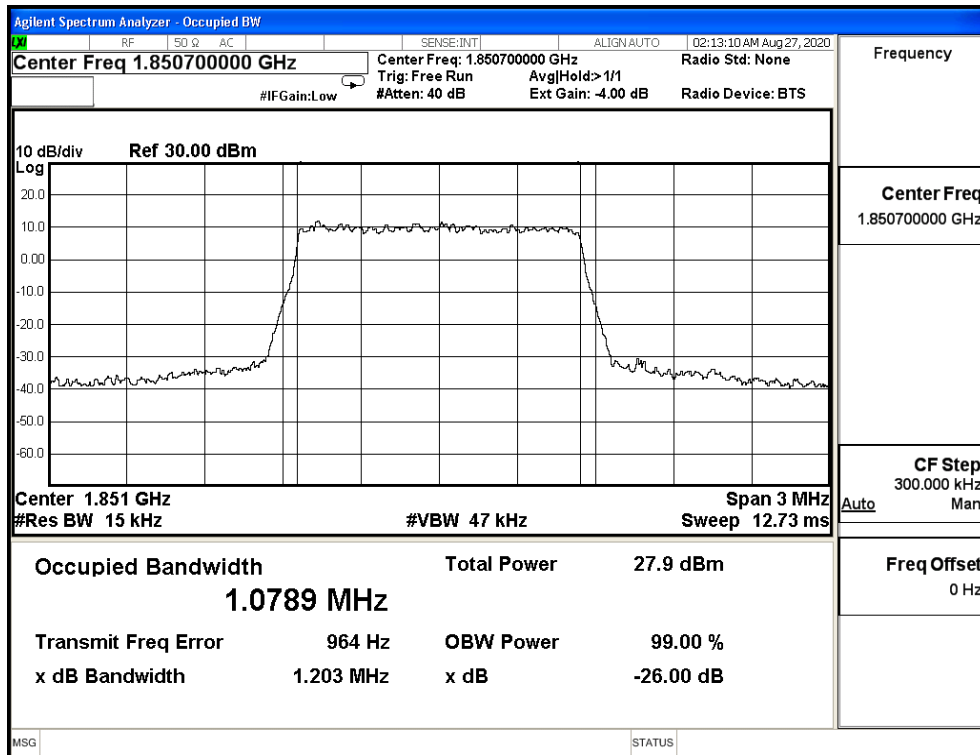
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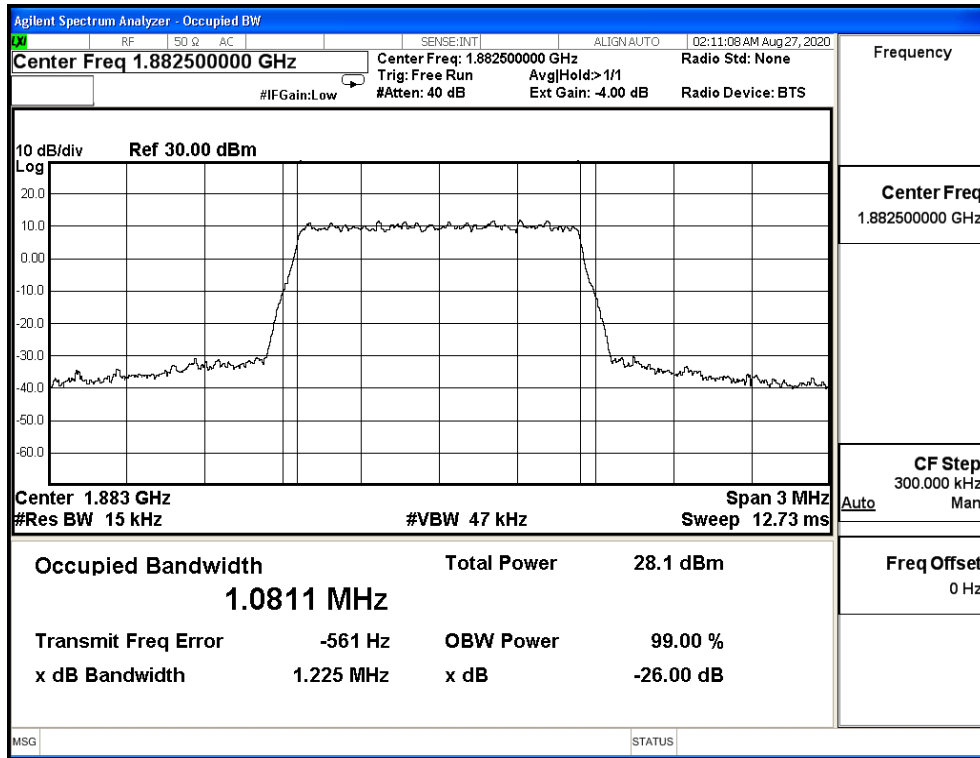
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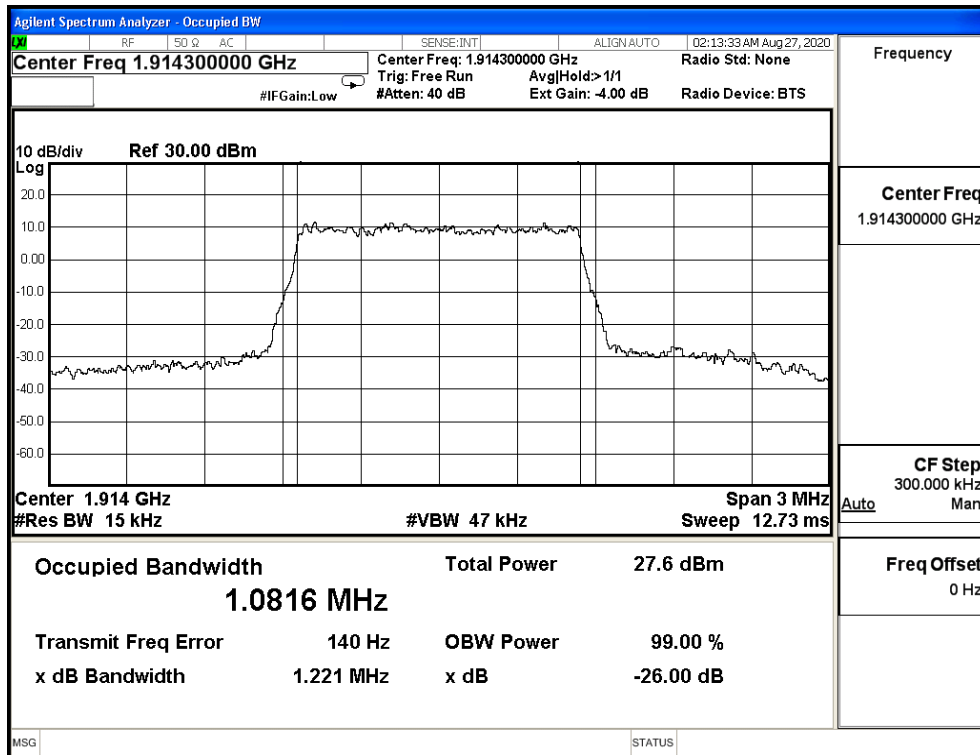
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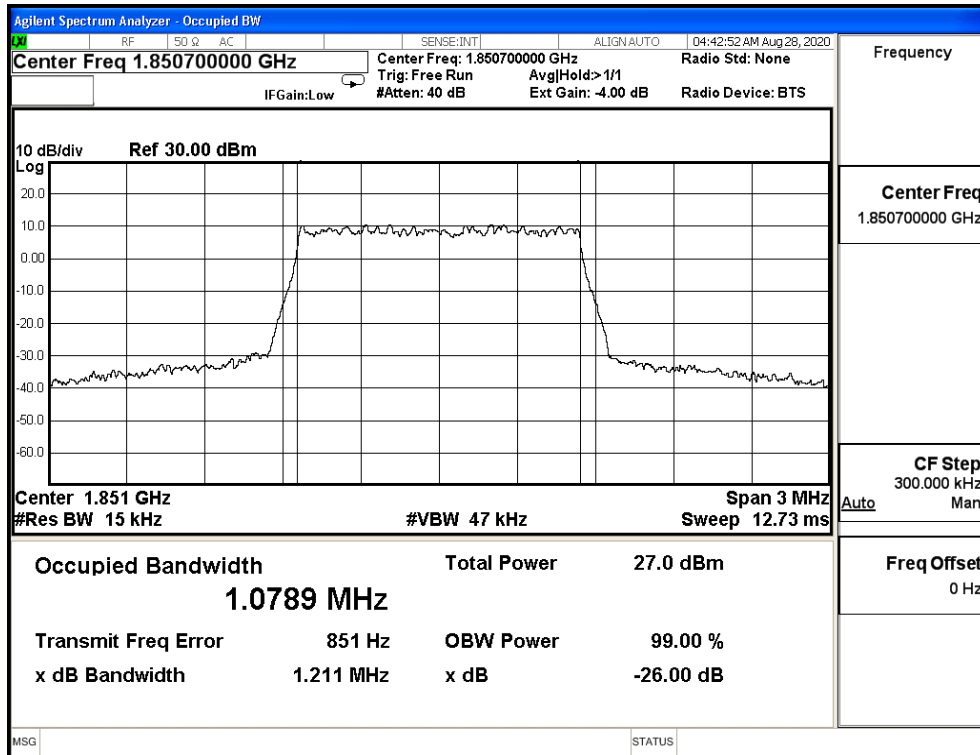
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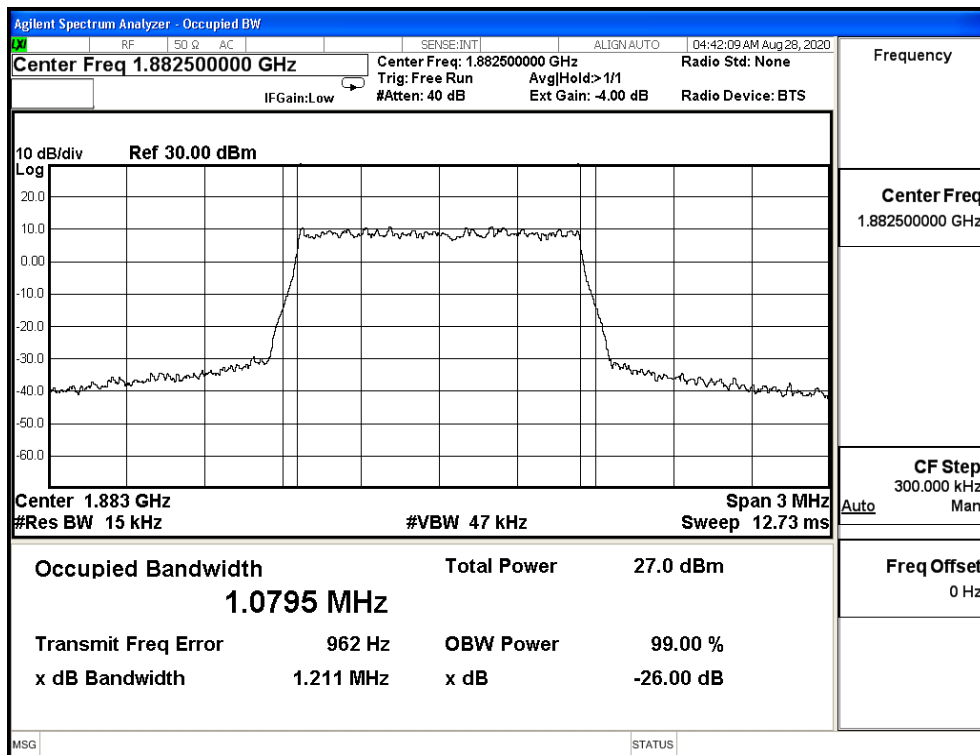
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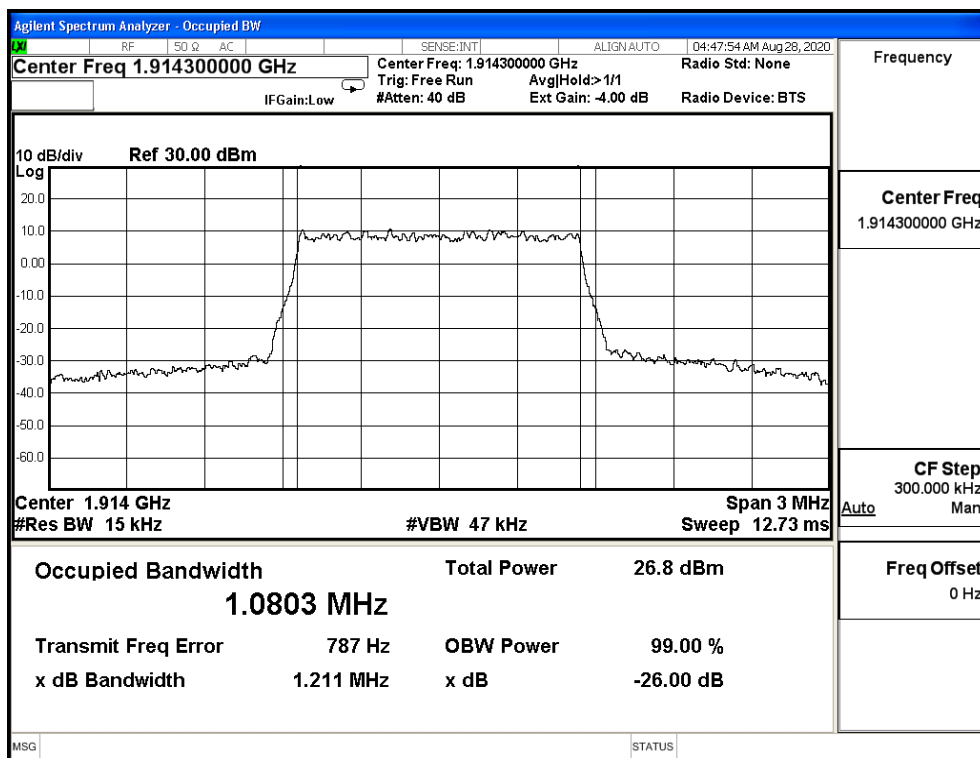
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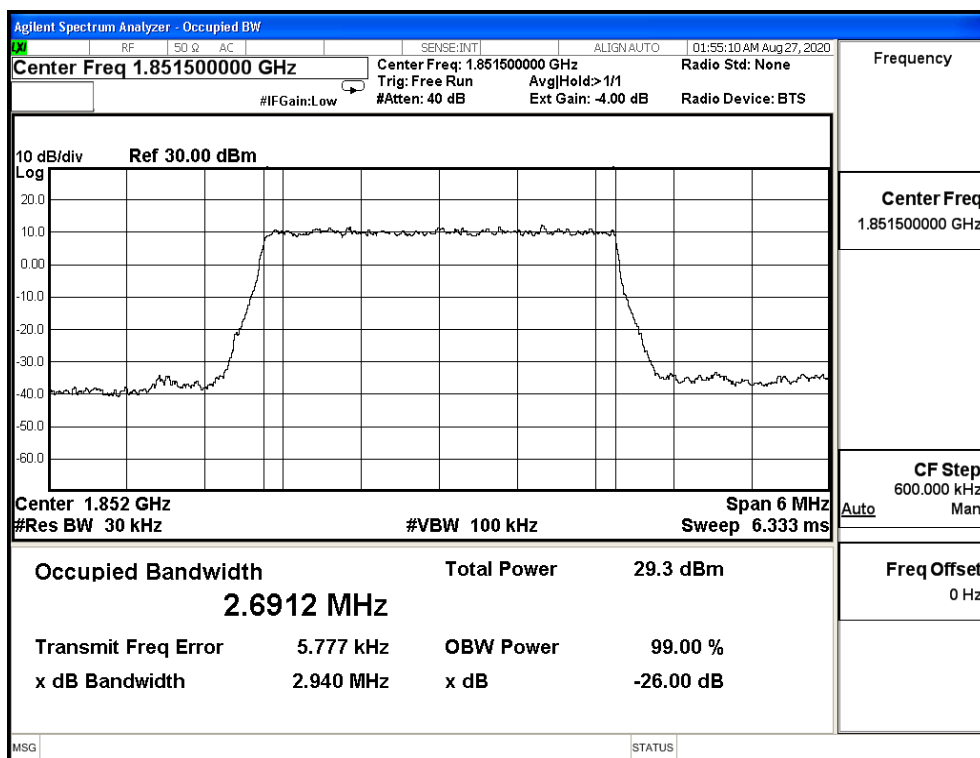
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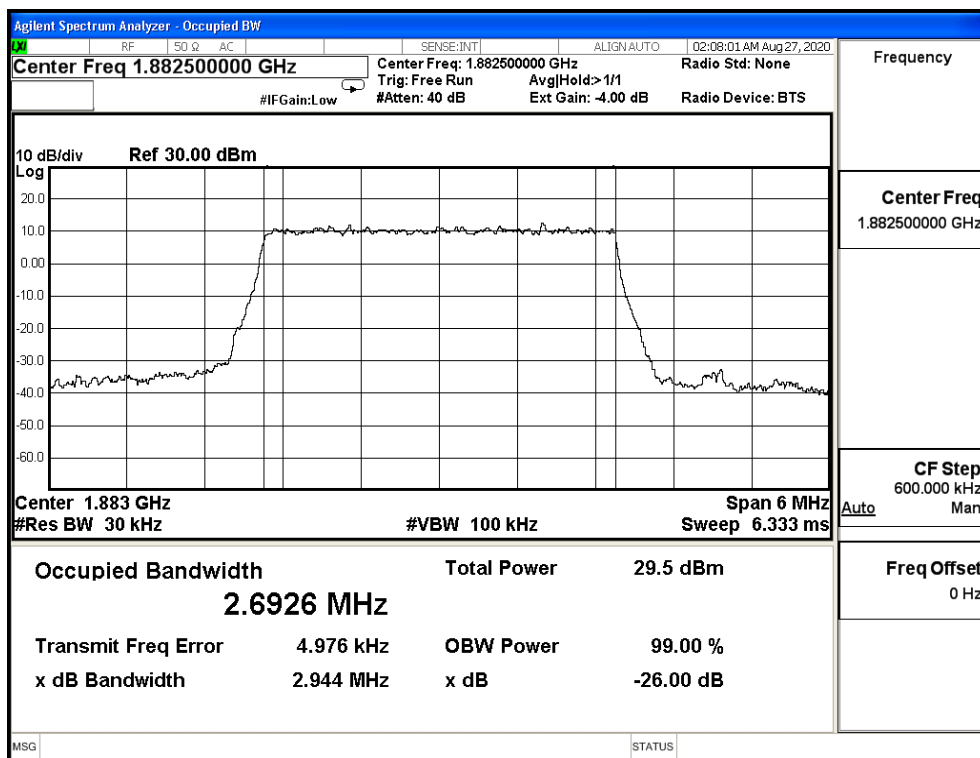
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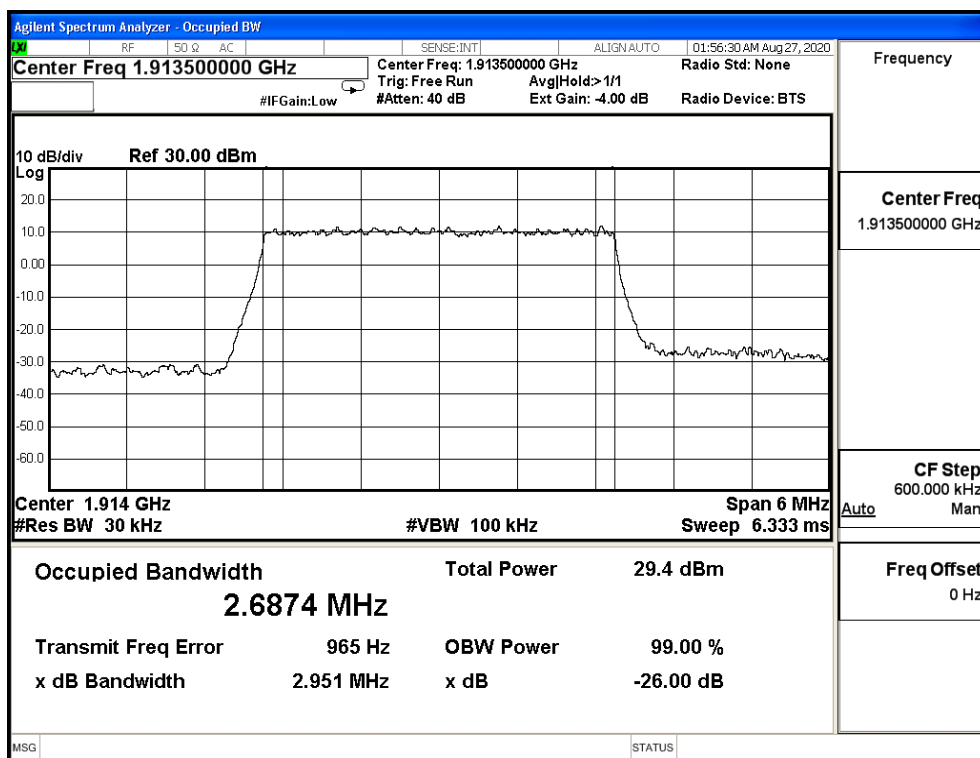
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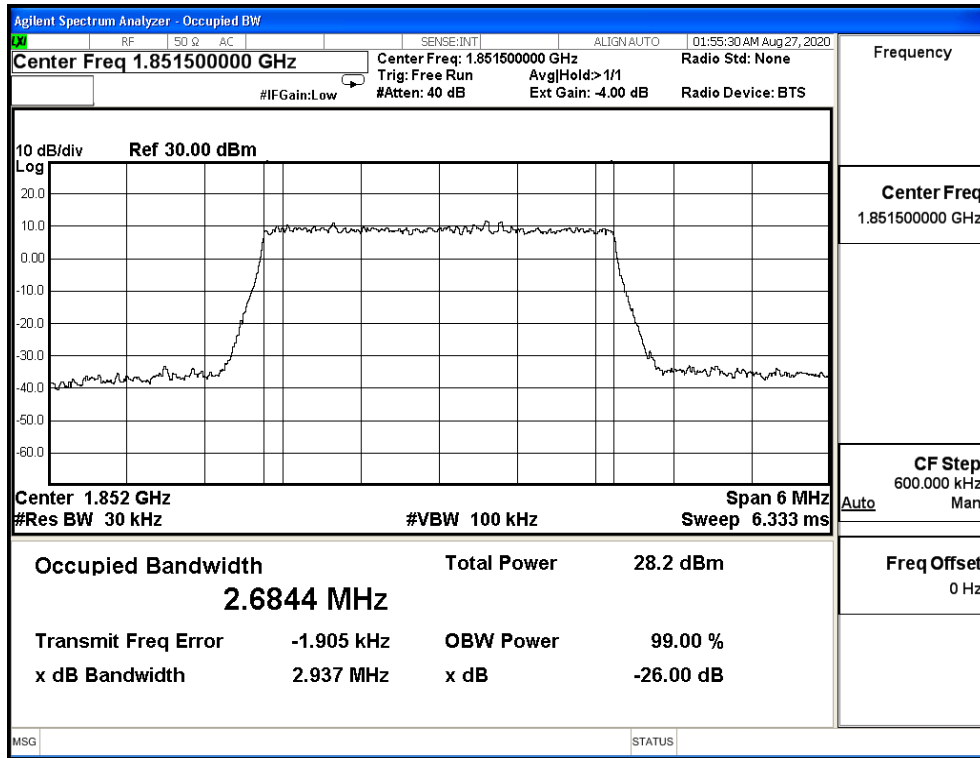
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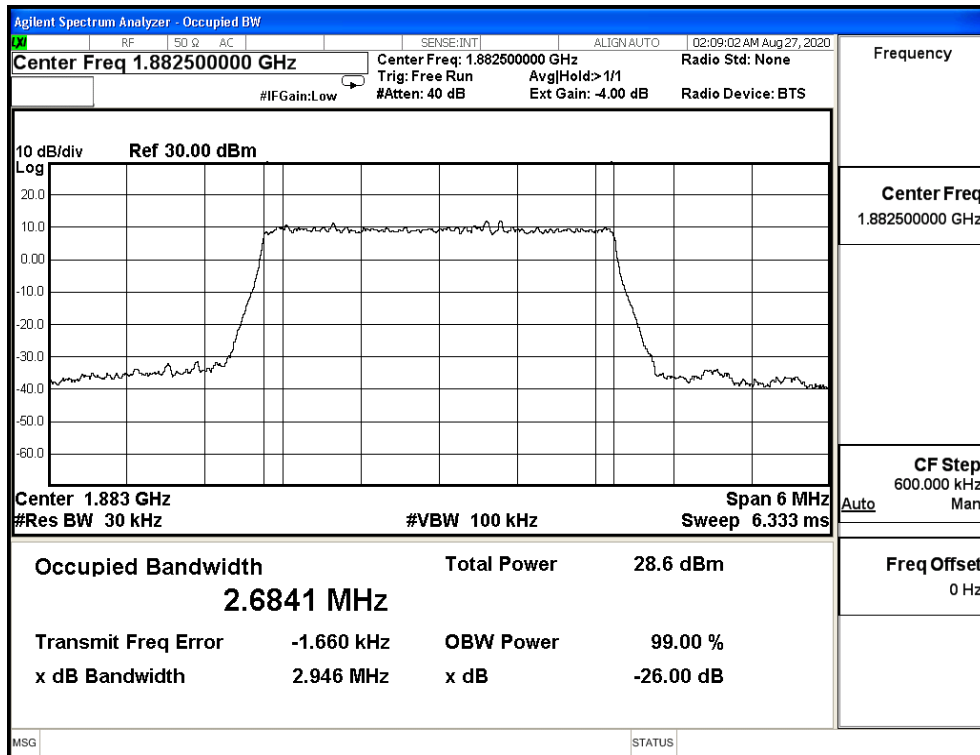
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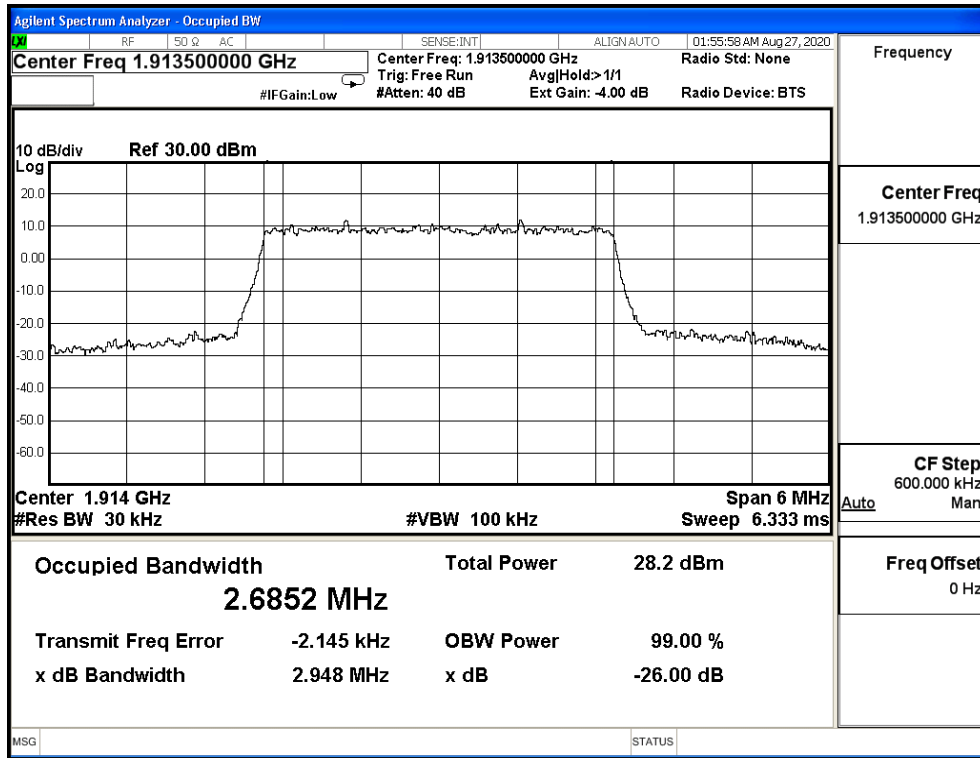
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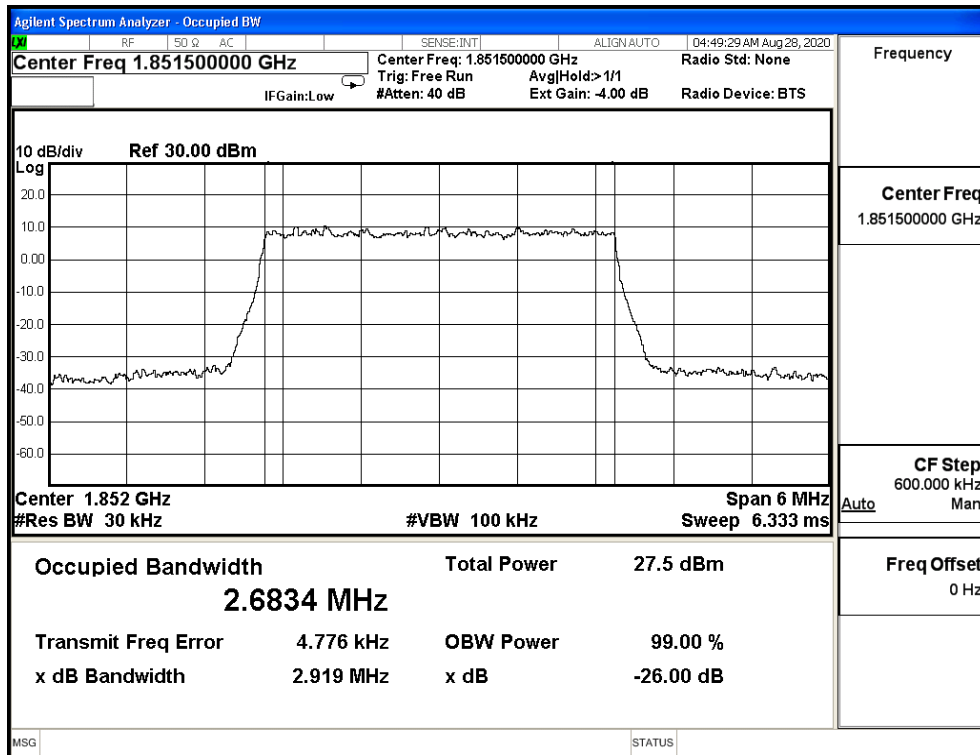
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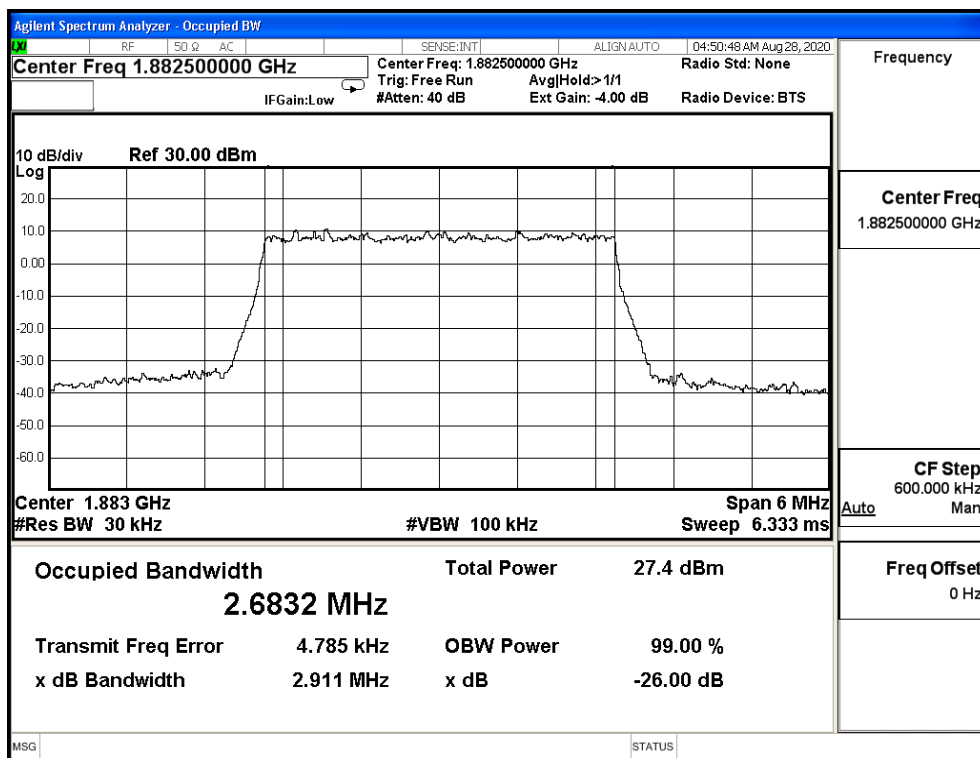
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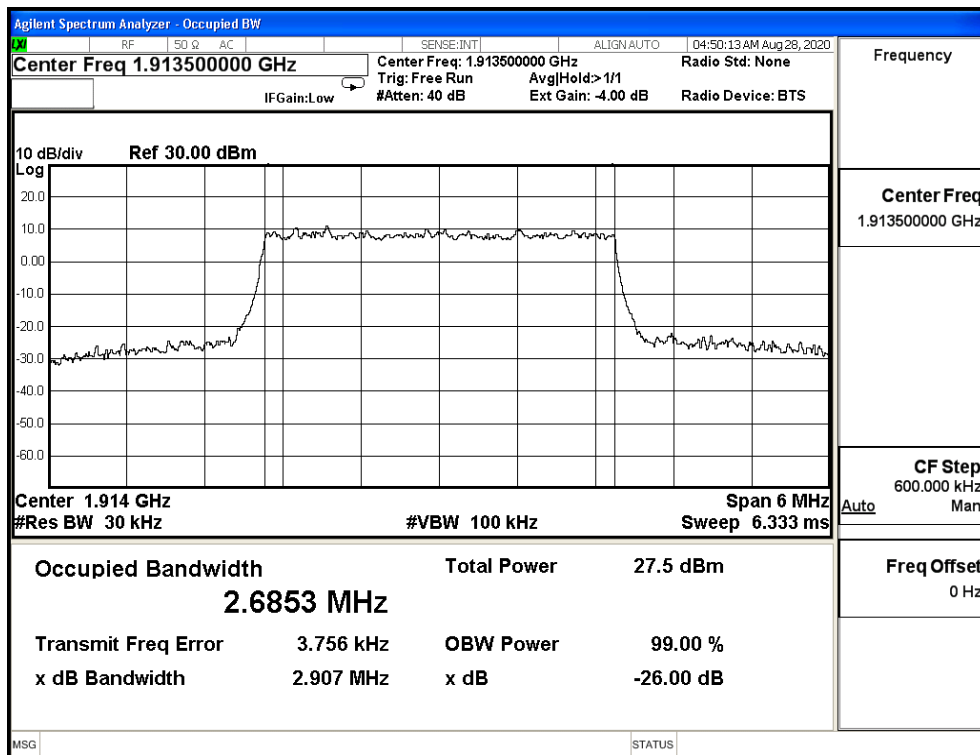
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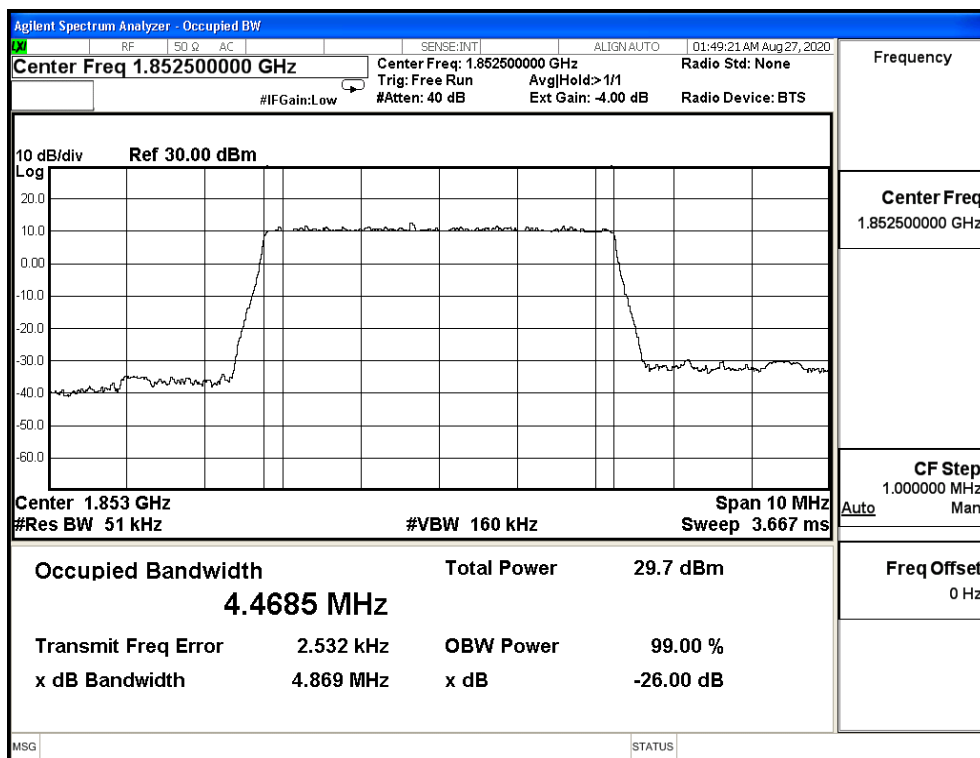
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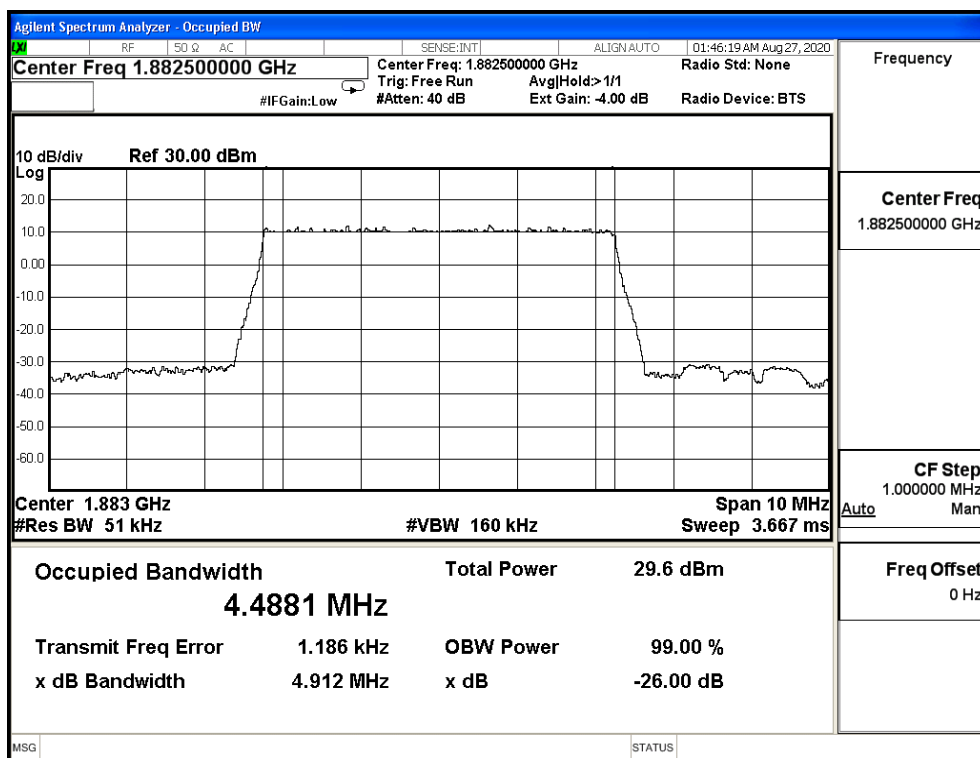
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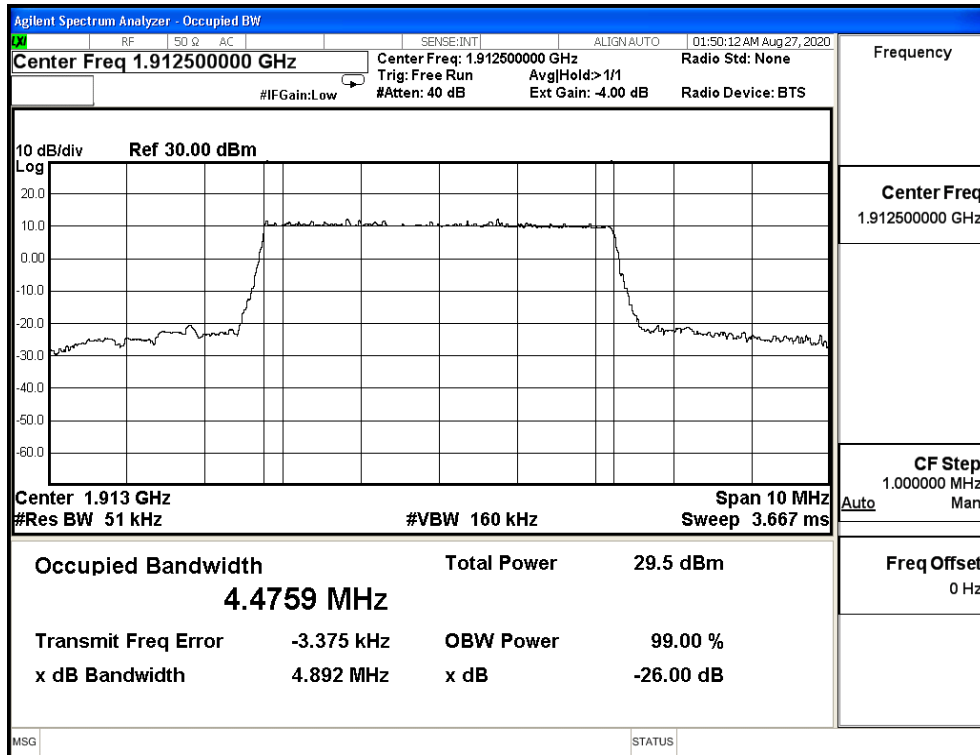
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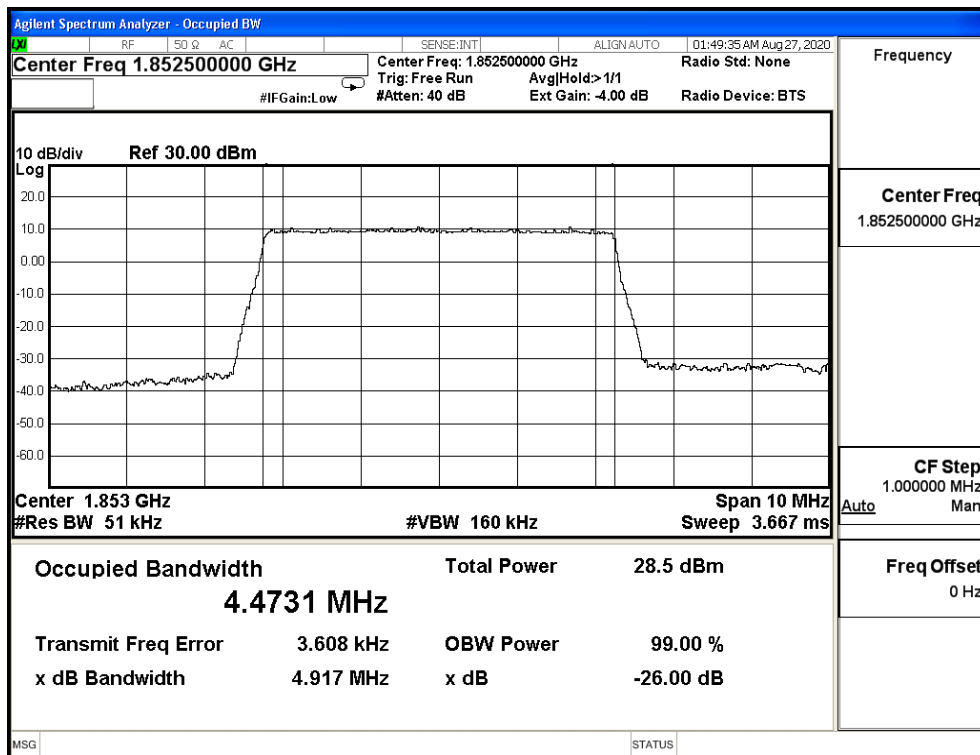
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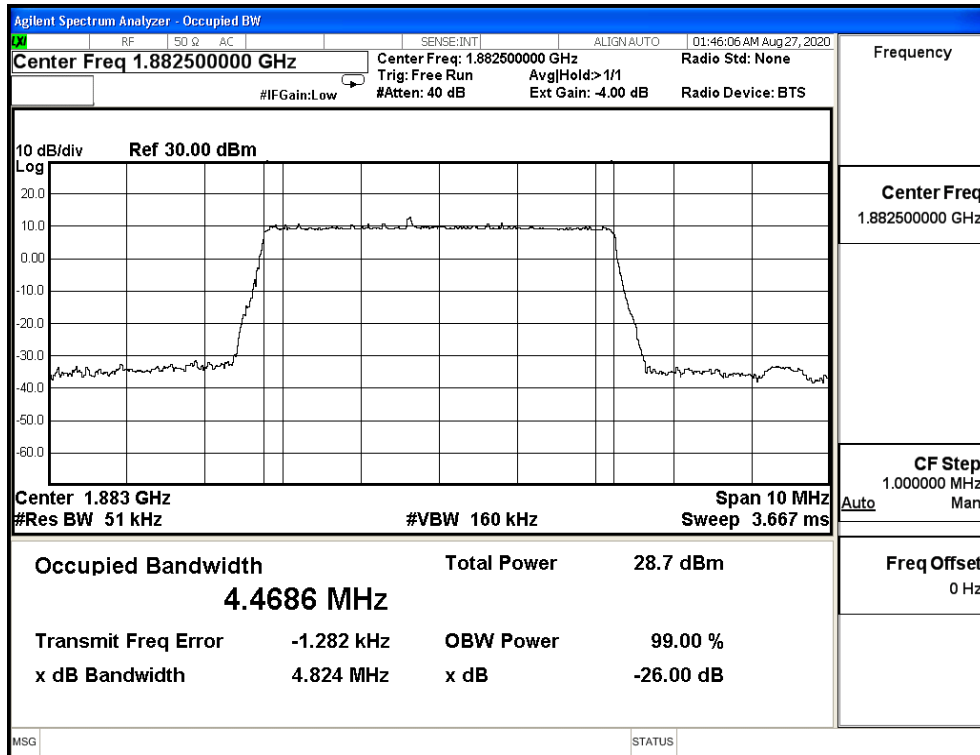
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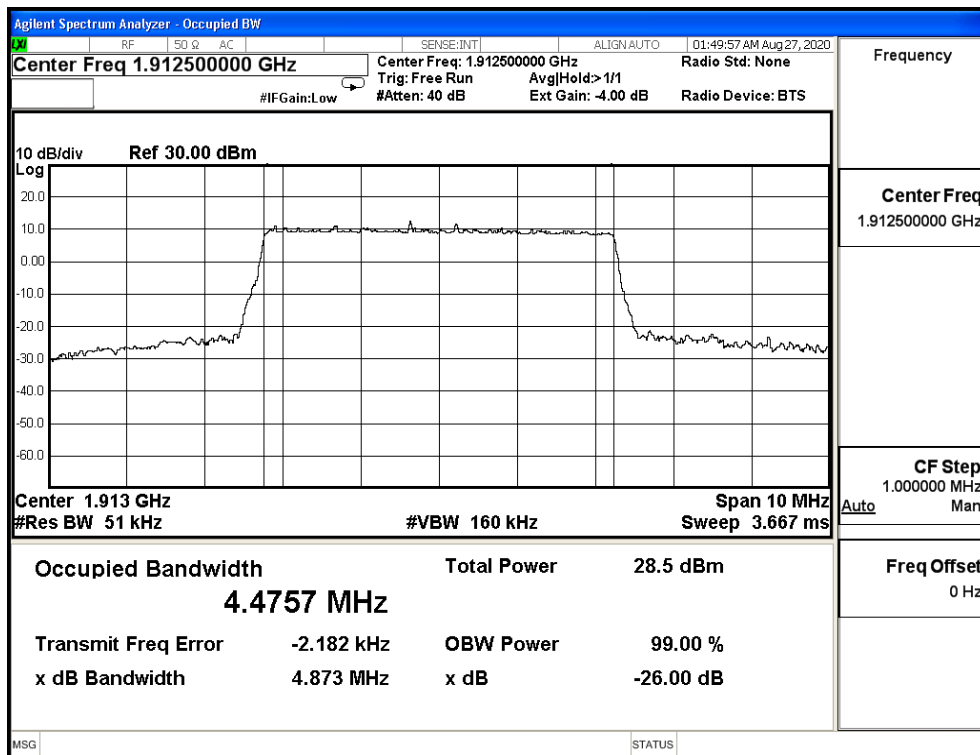
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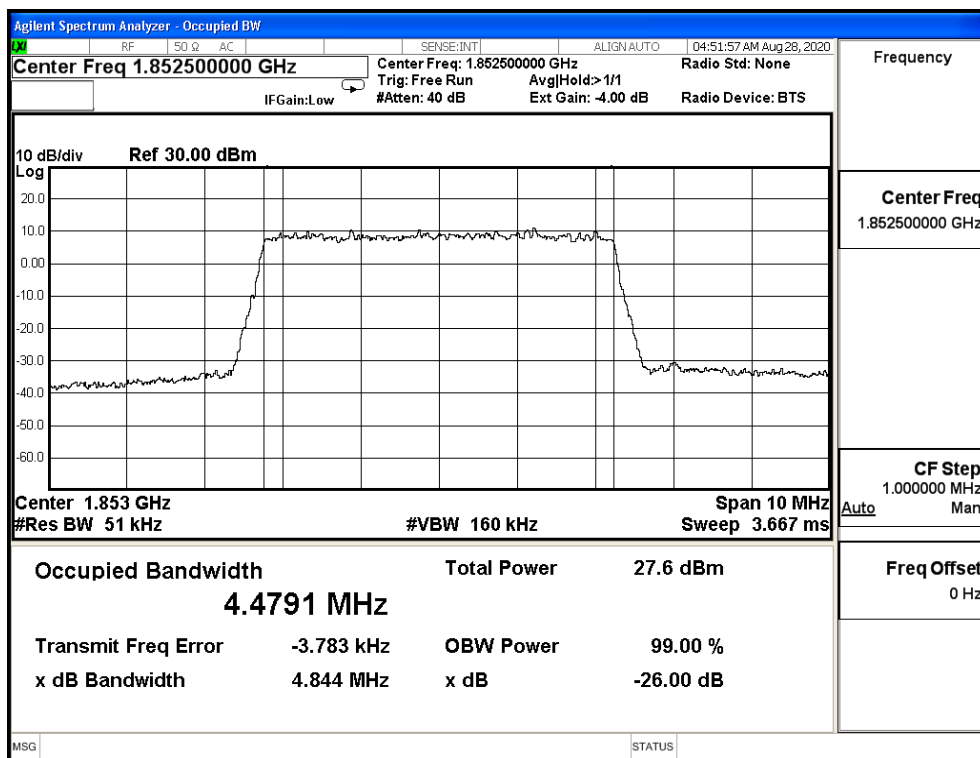
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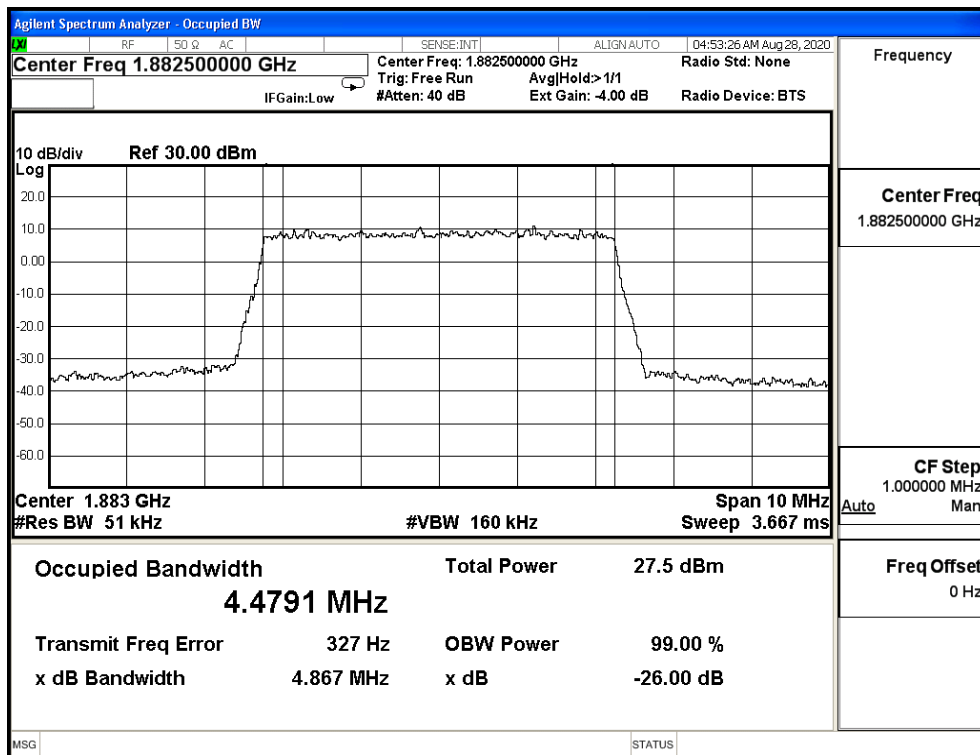
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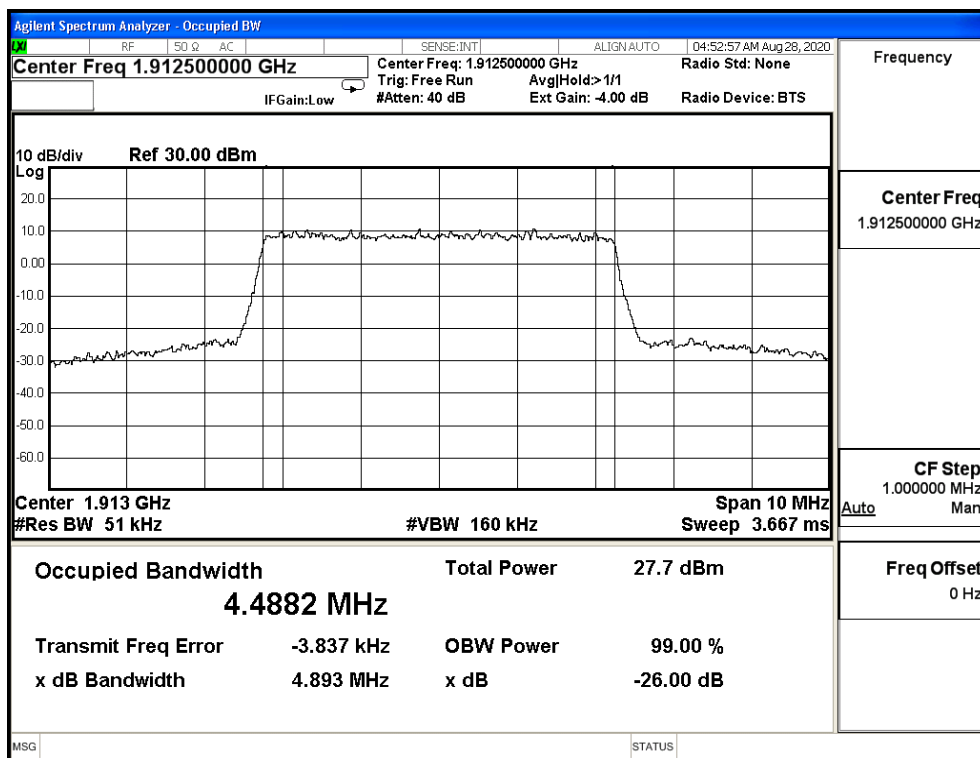
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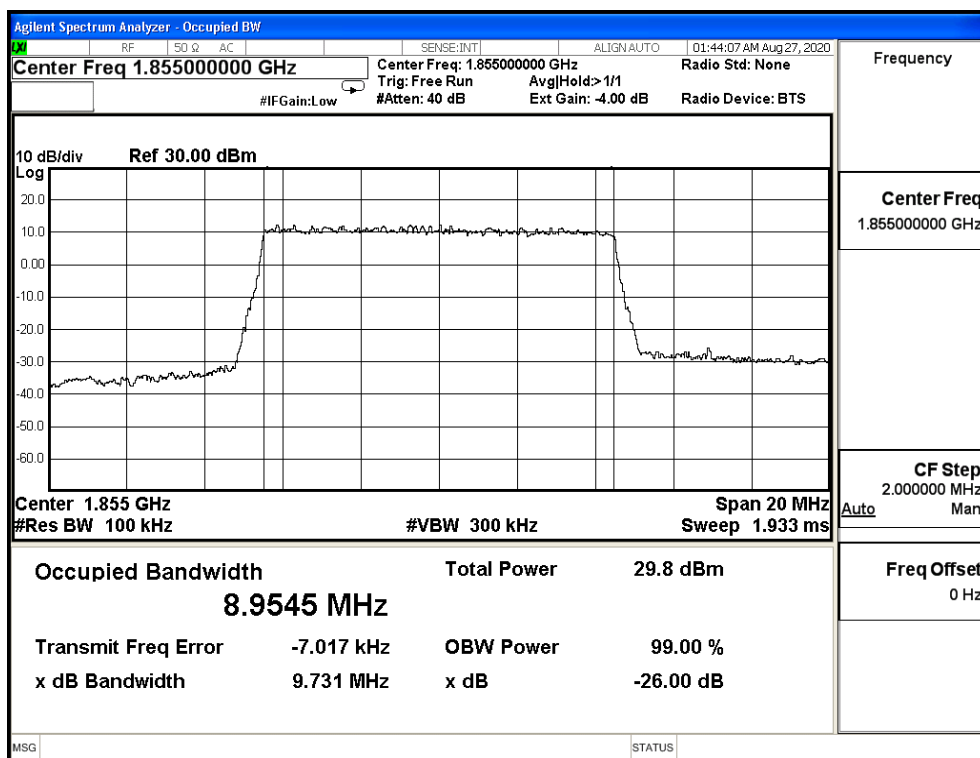
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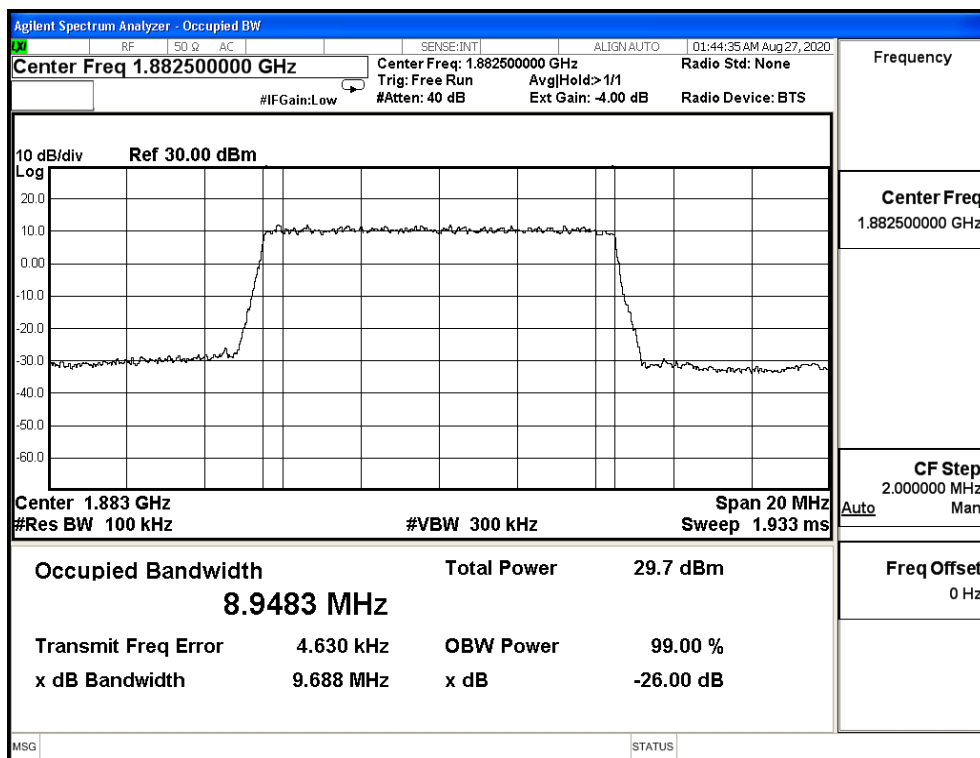
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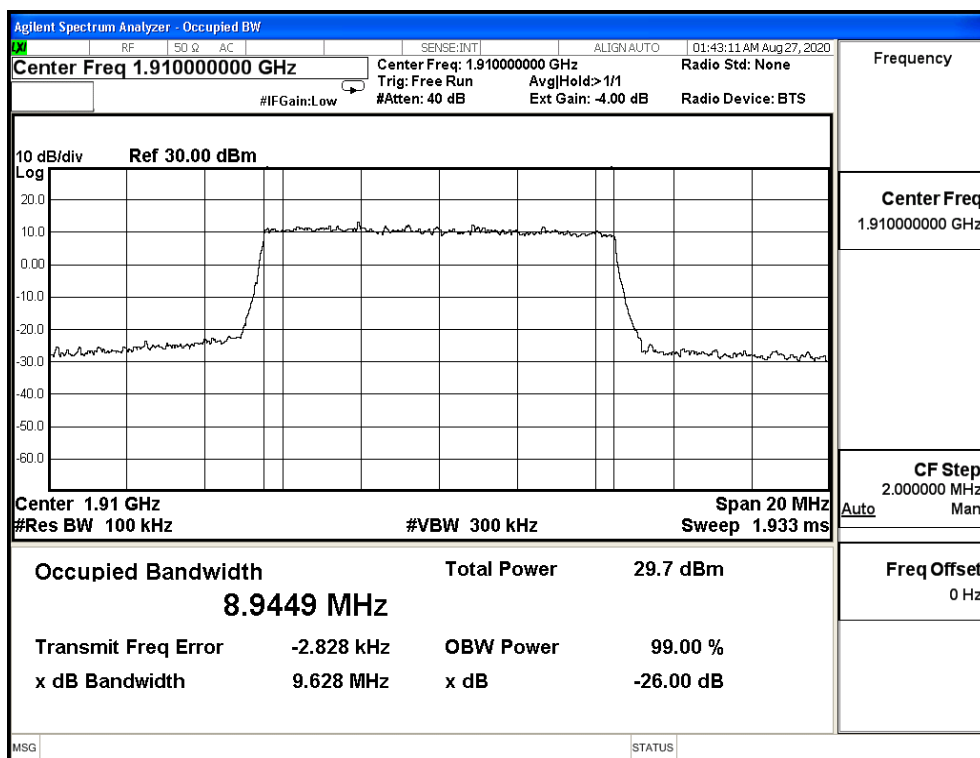
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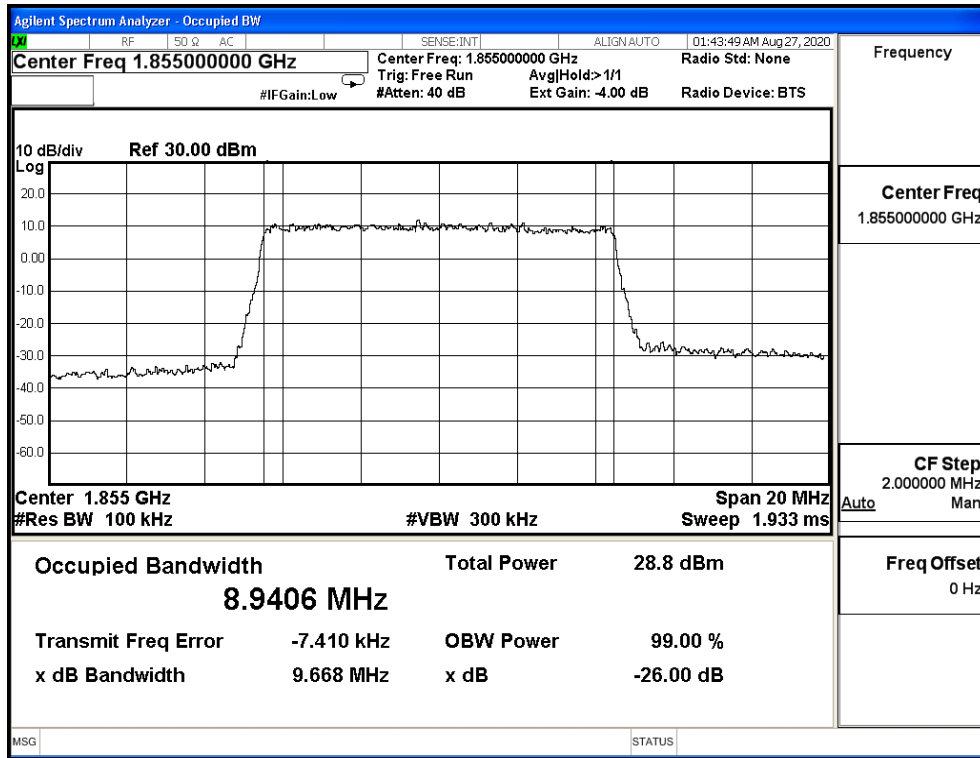
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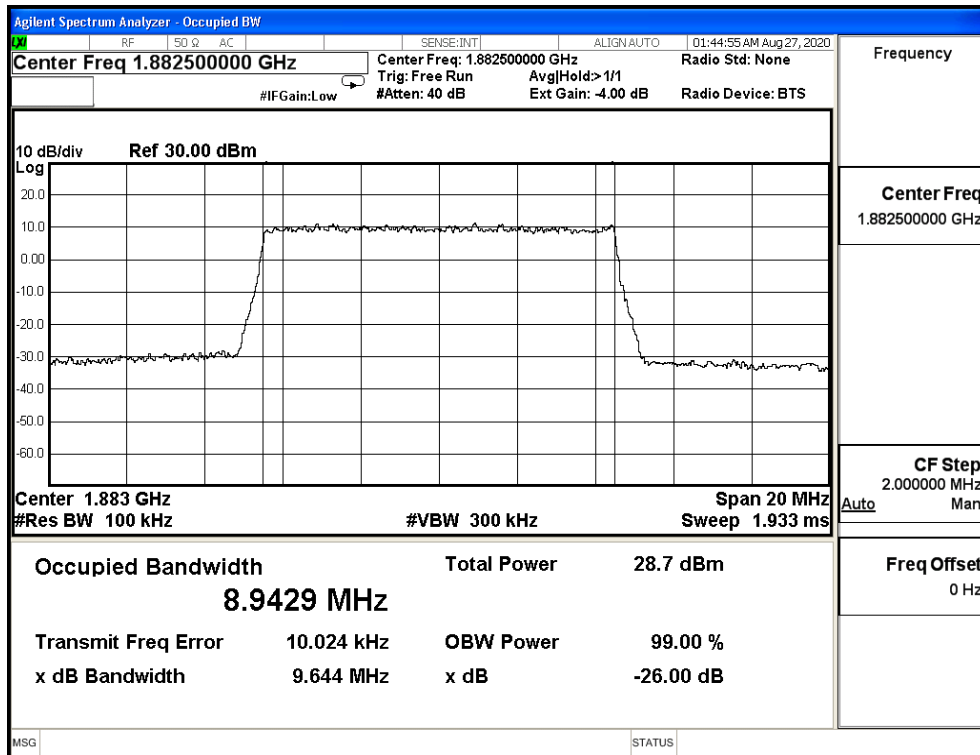
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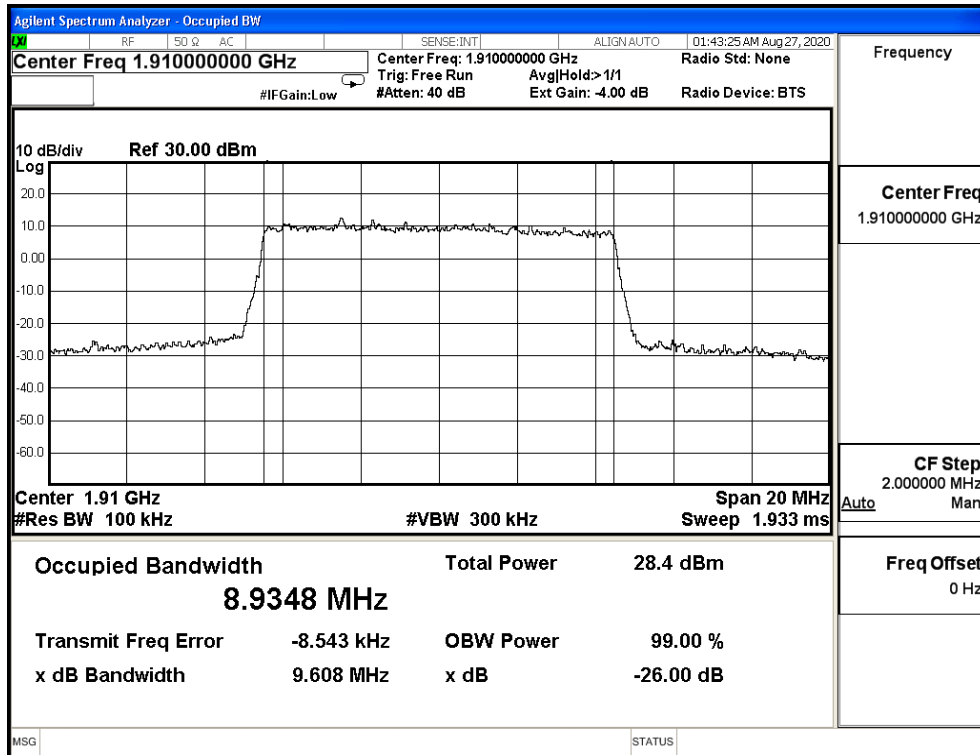
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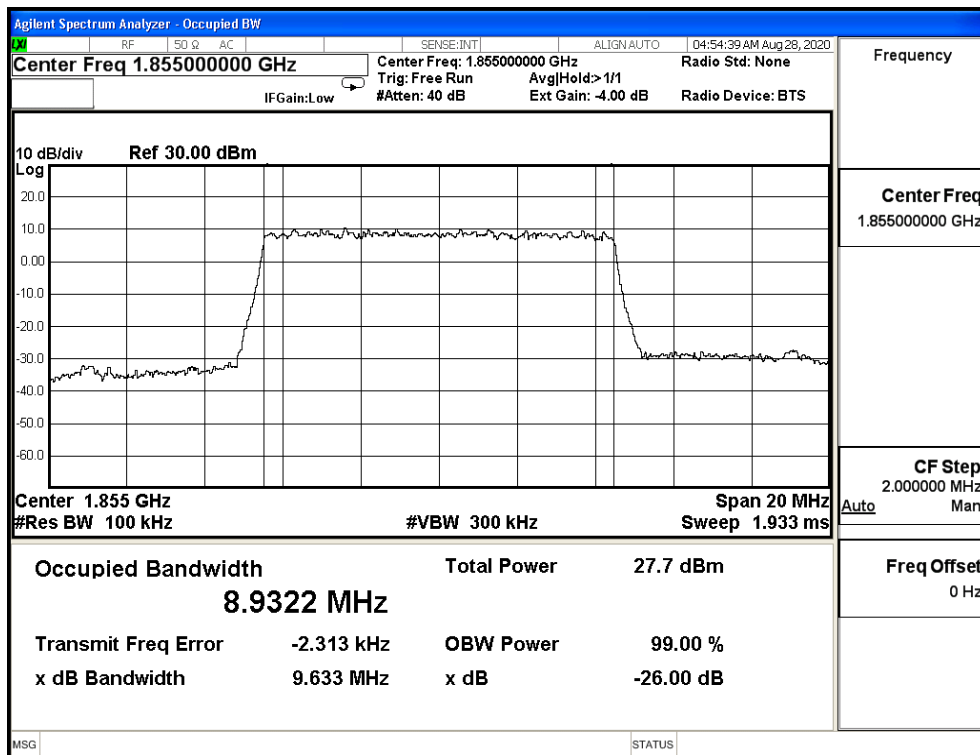
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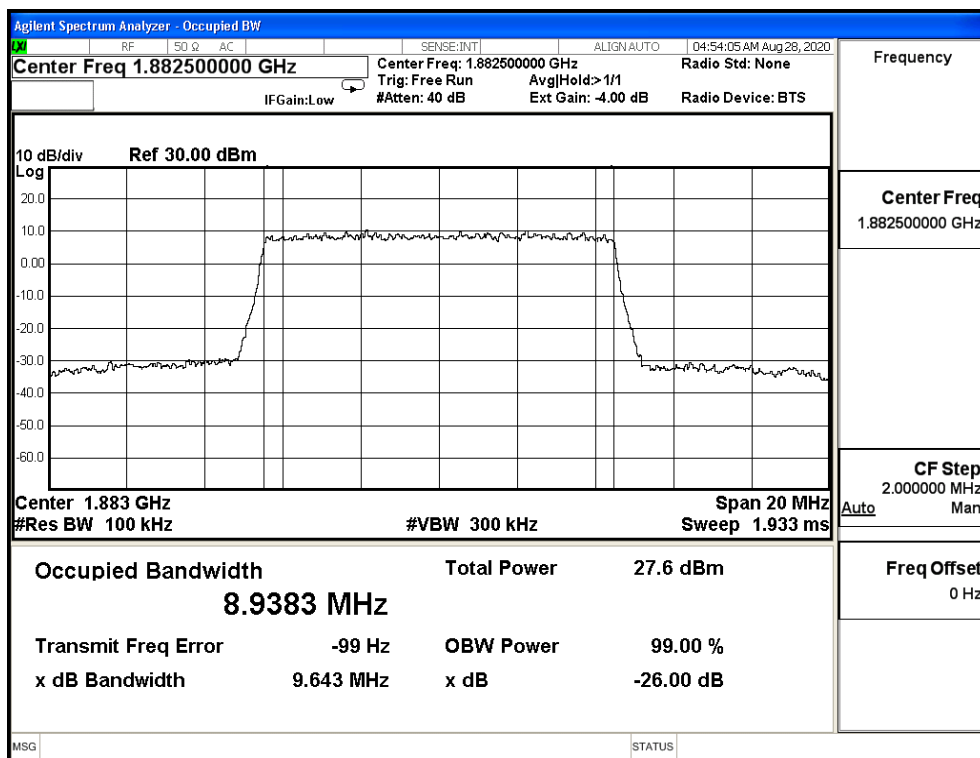
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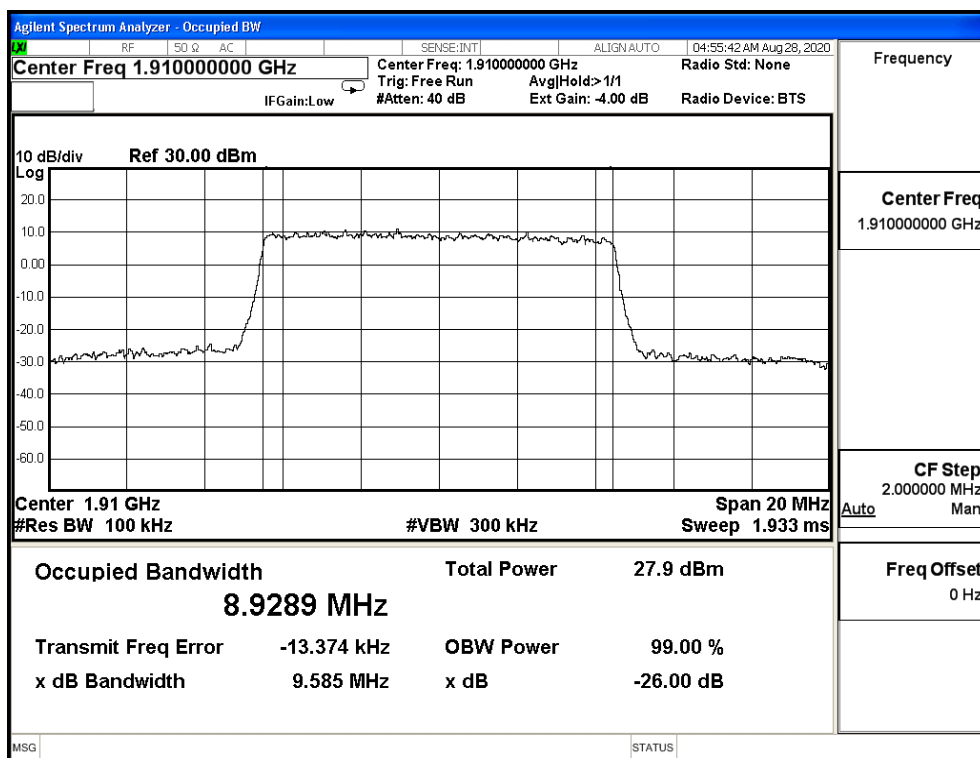
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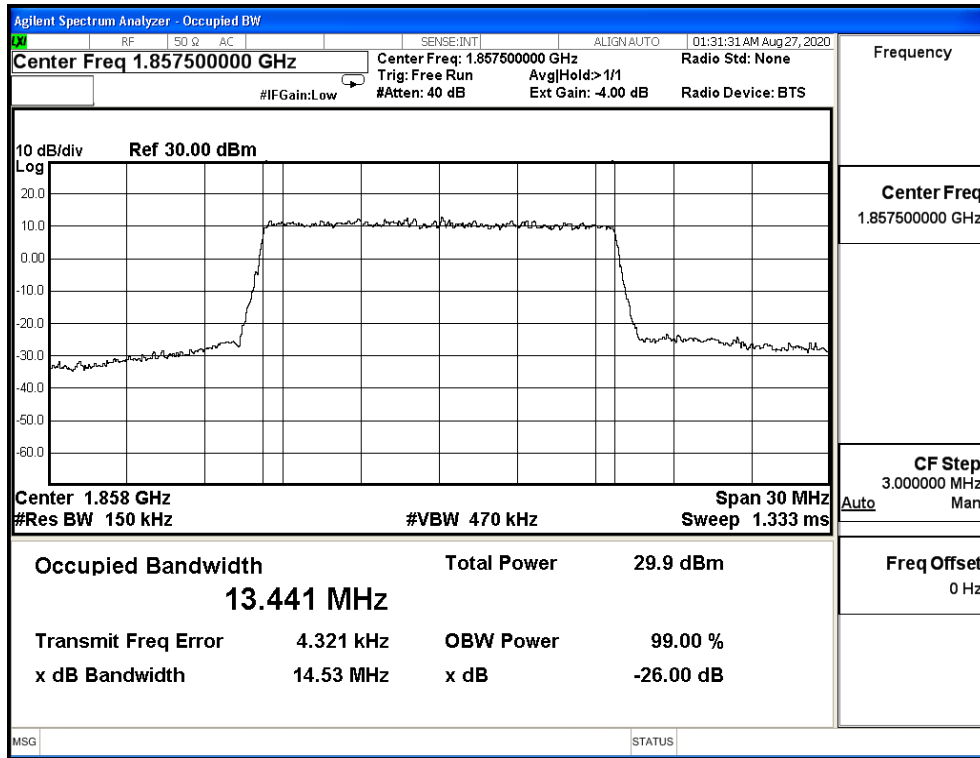
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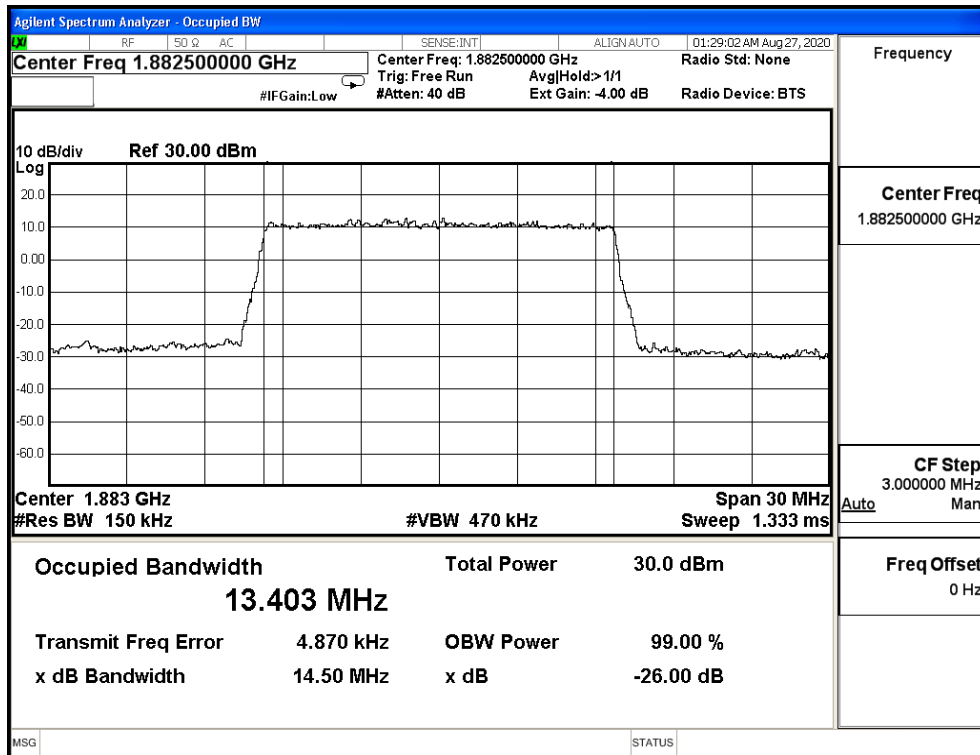
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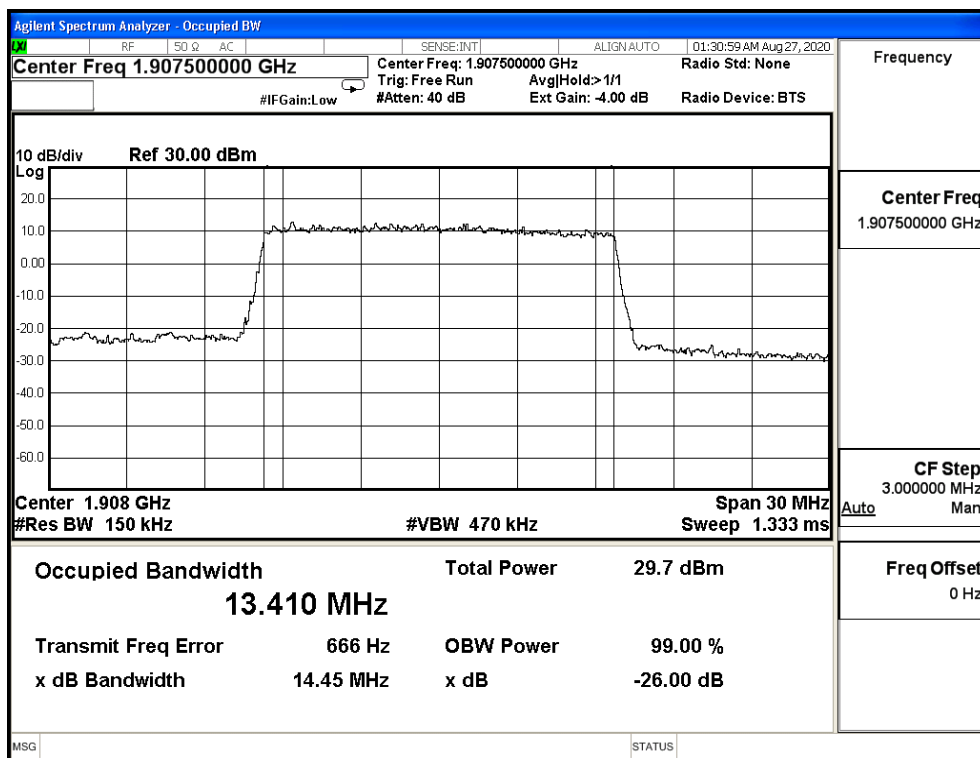
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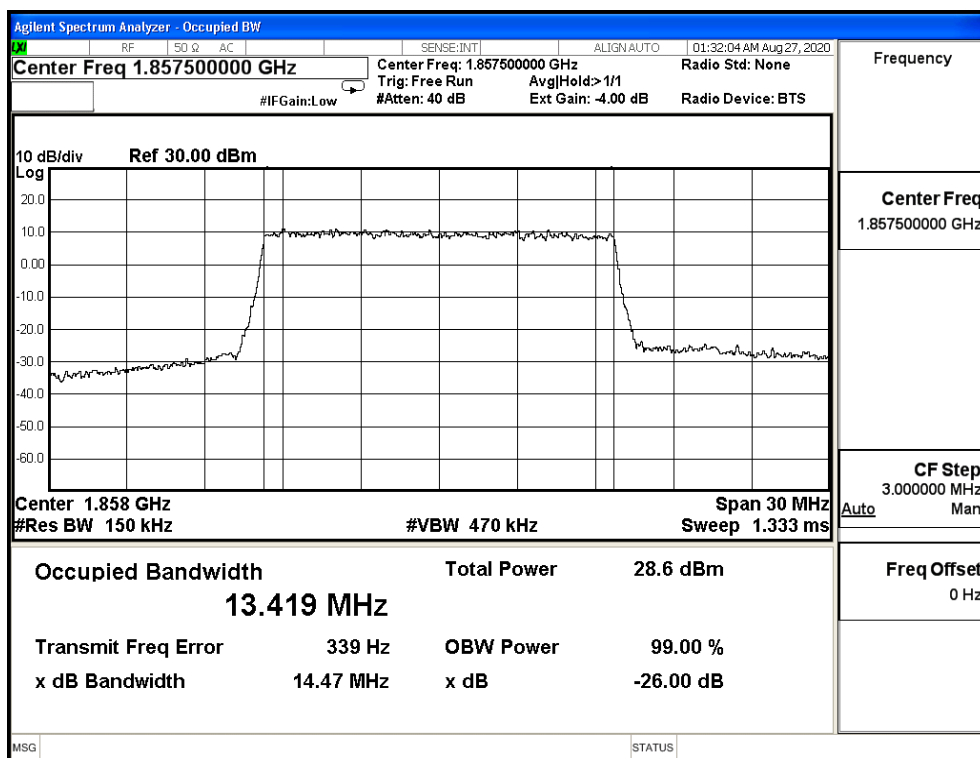
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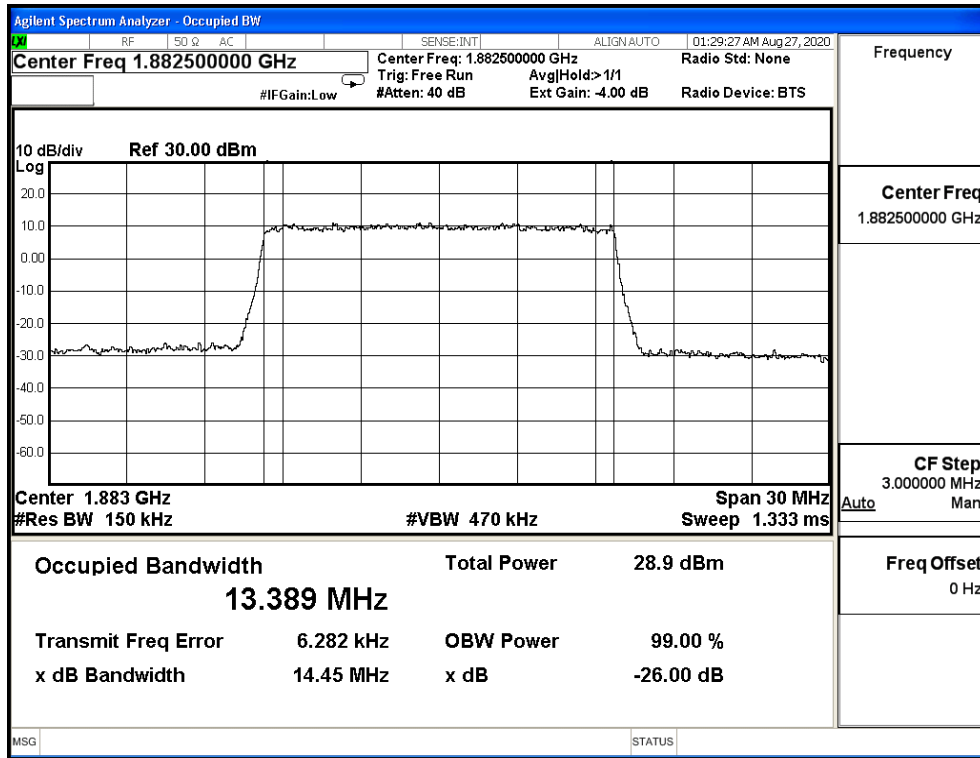
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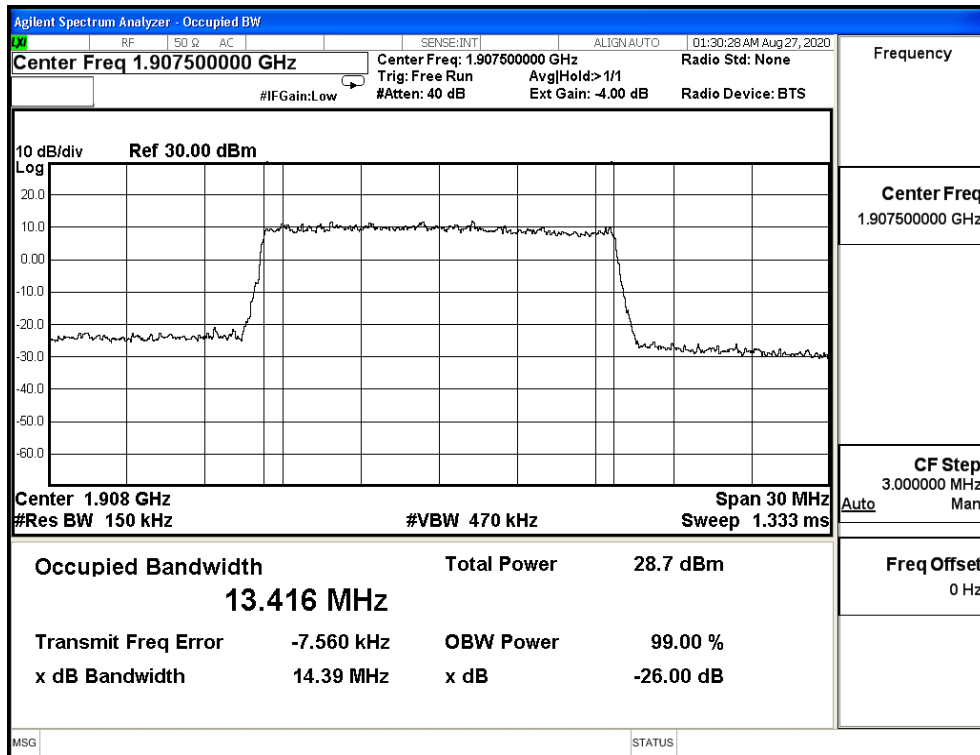
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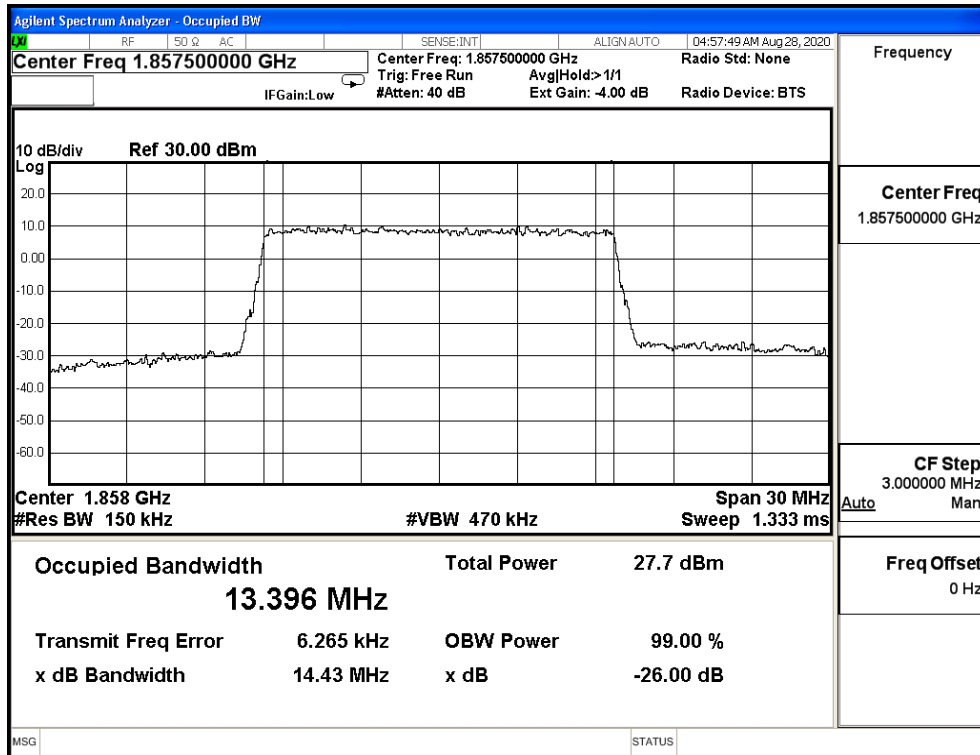
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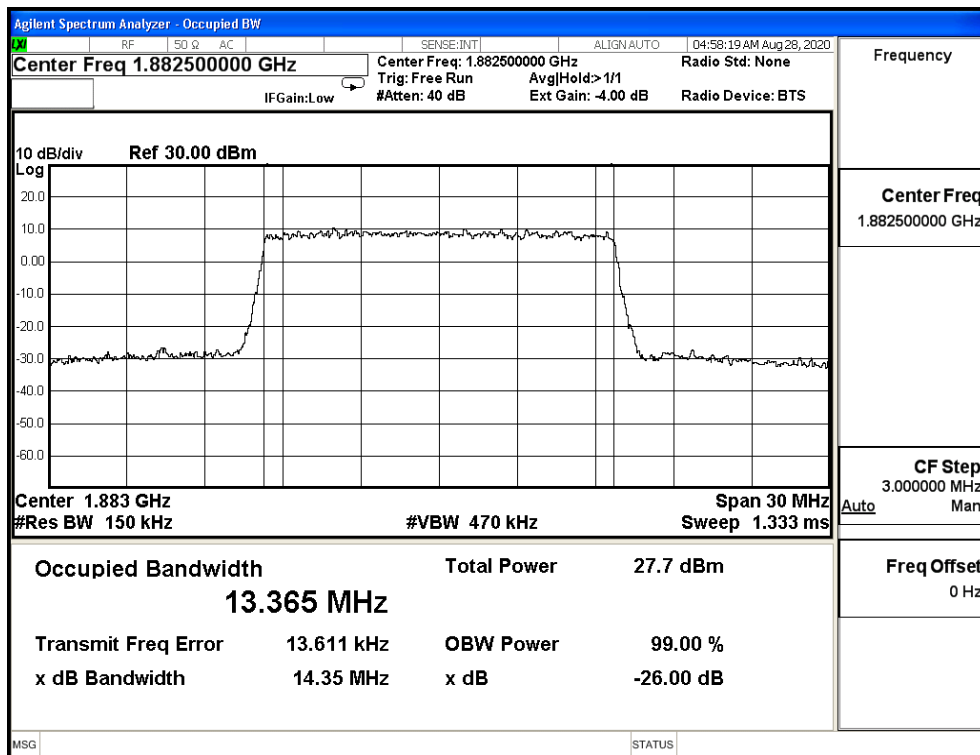
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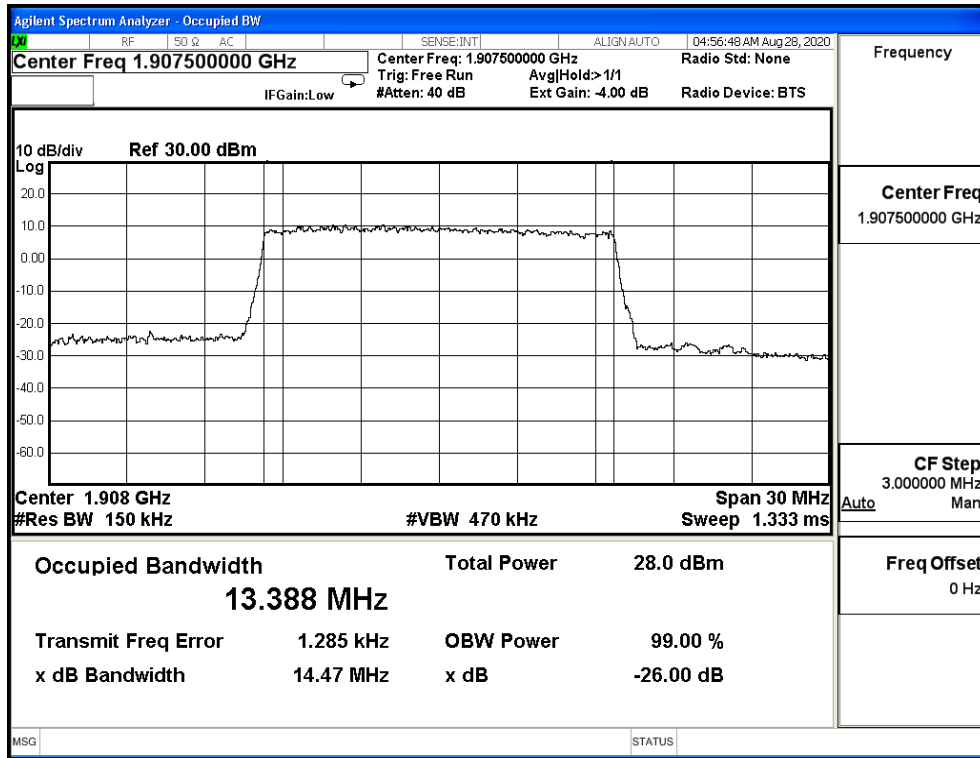
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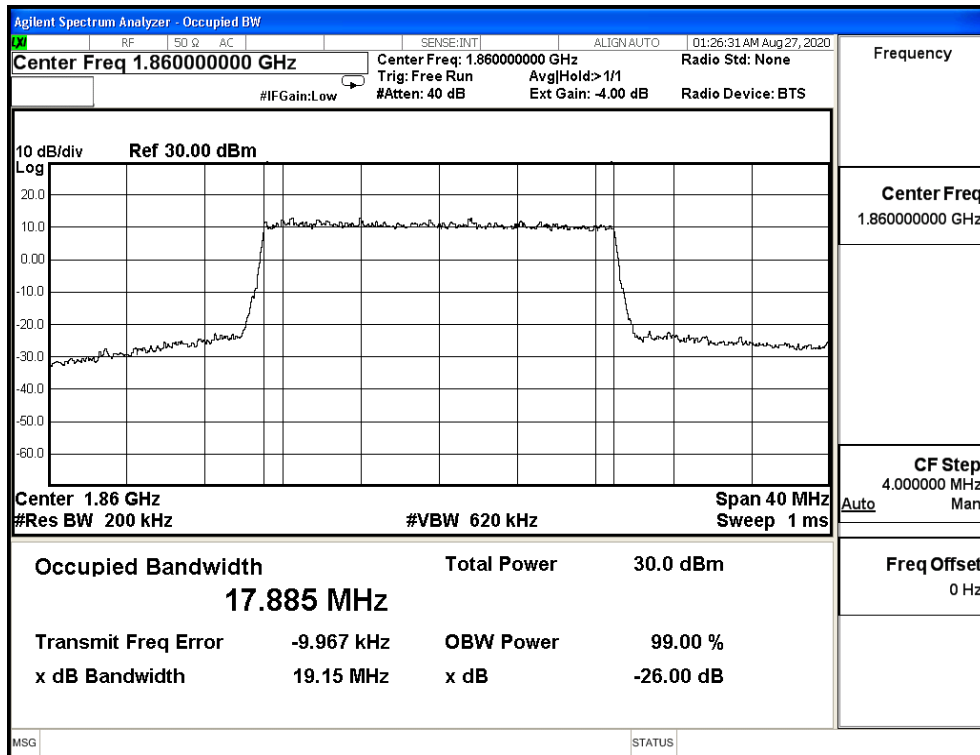
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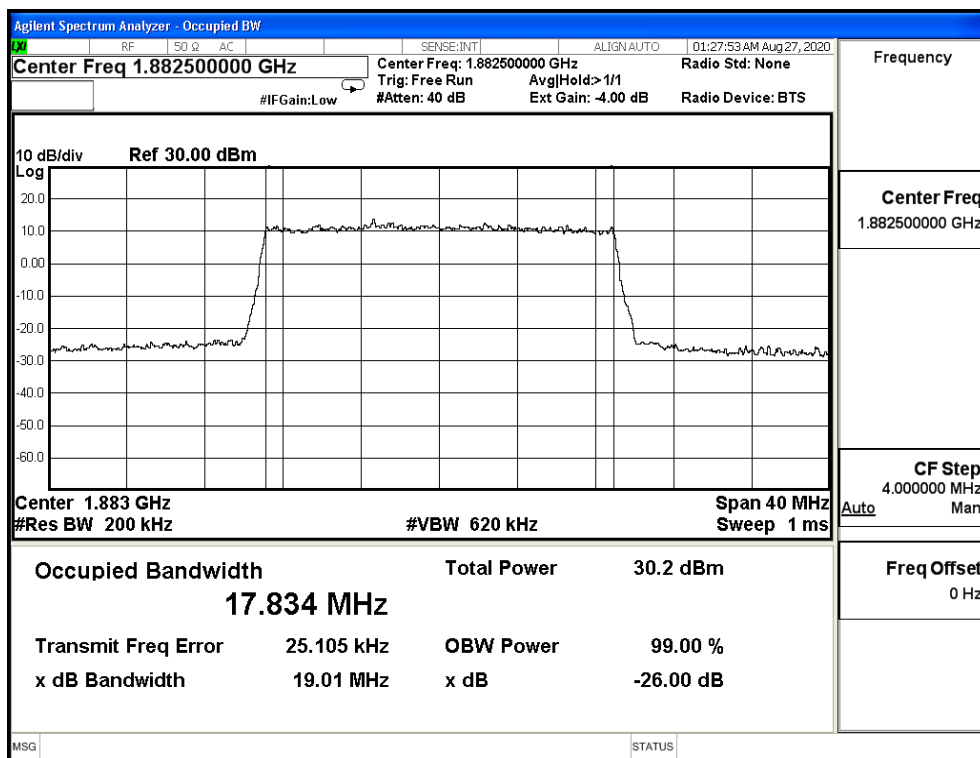
64QAM_CH26615_15M



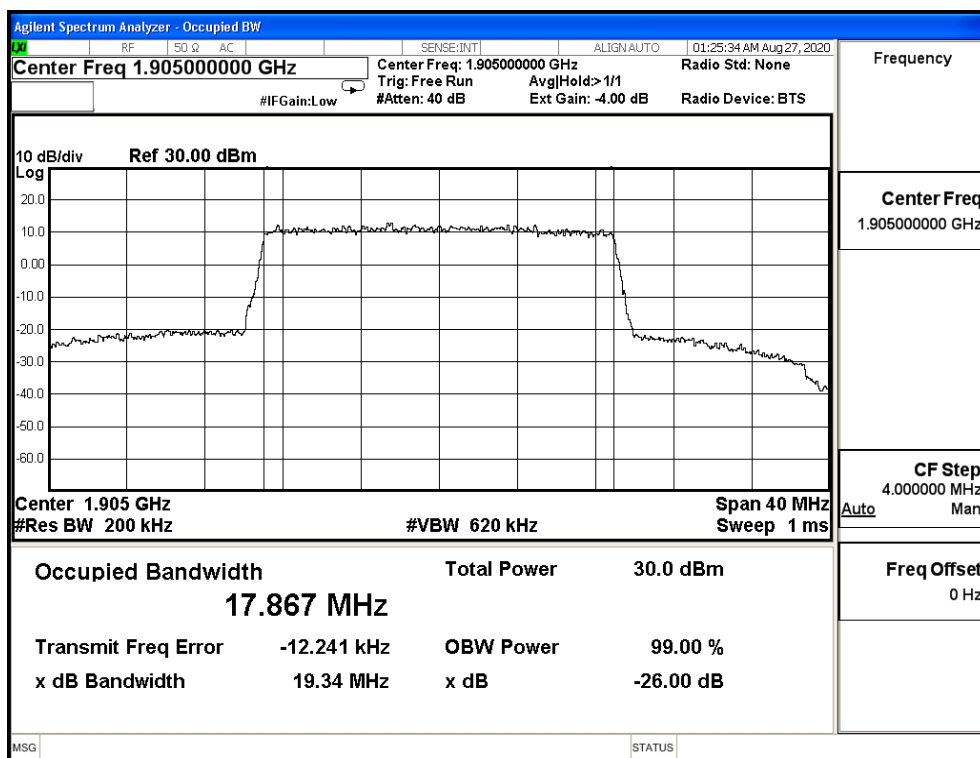
QPSK_CH26140_20M



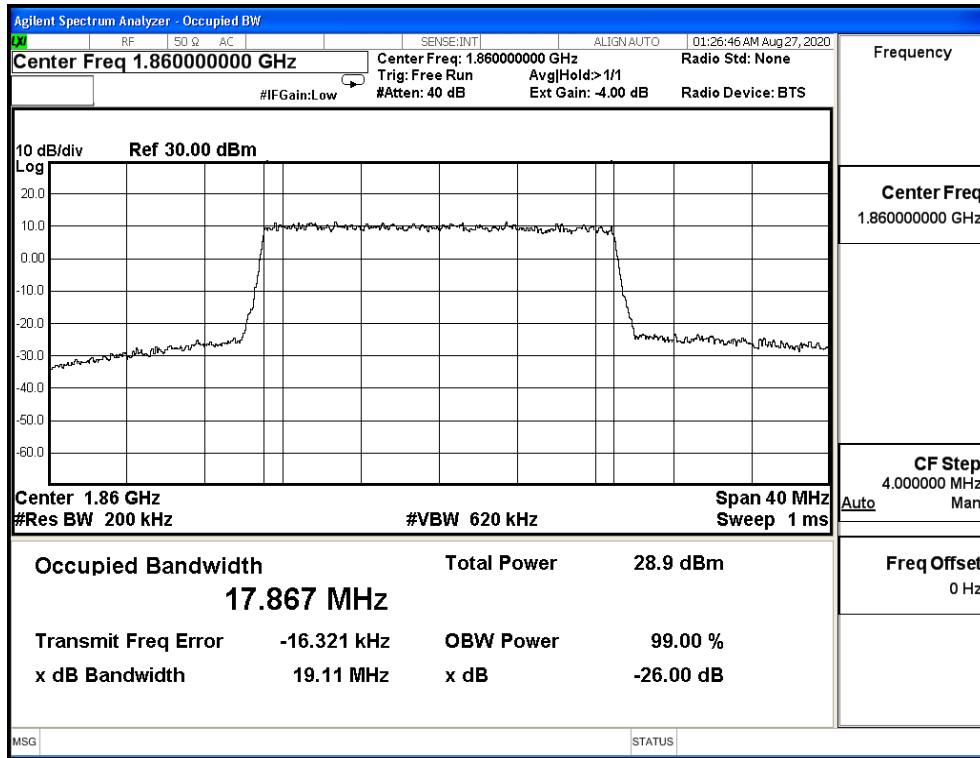
QPSK_CH26365_20M



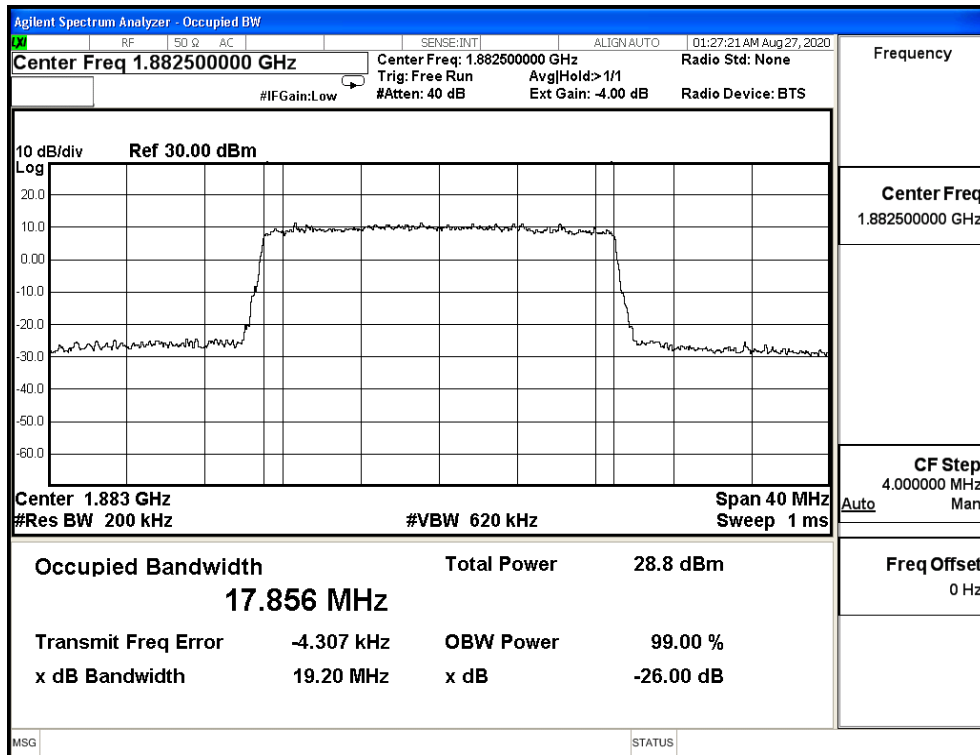
QPSK_CH26590_20M



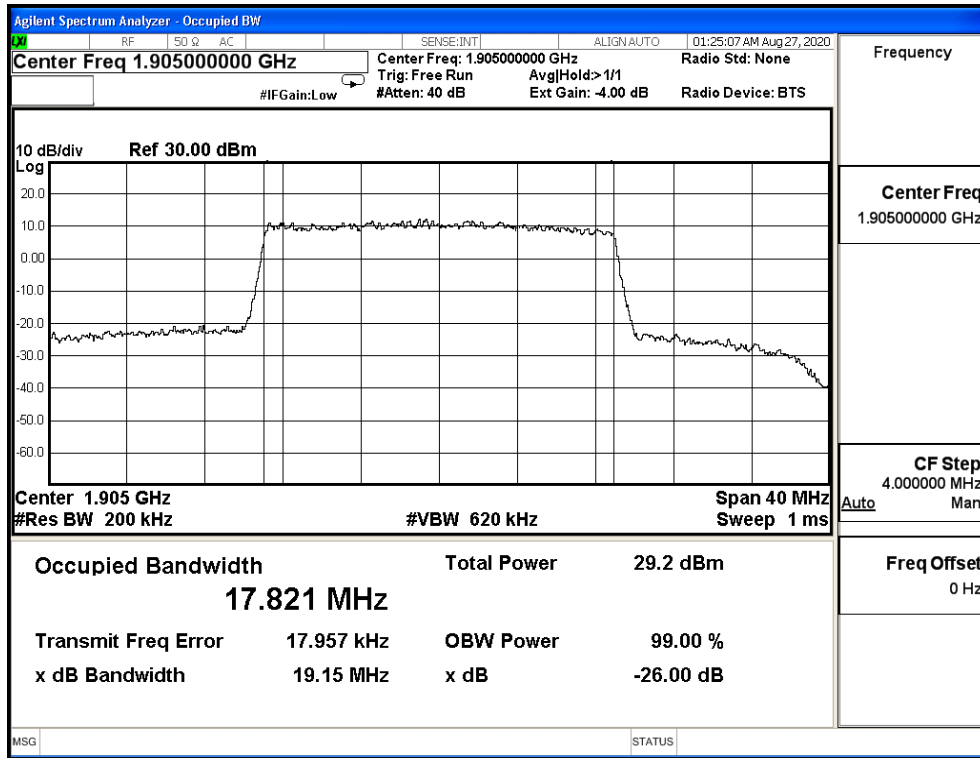
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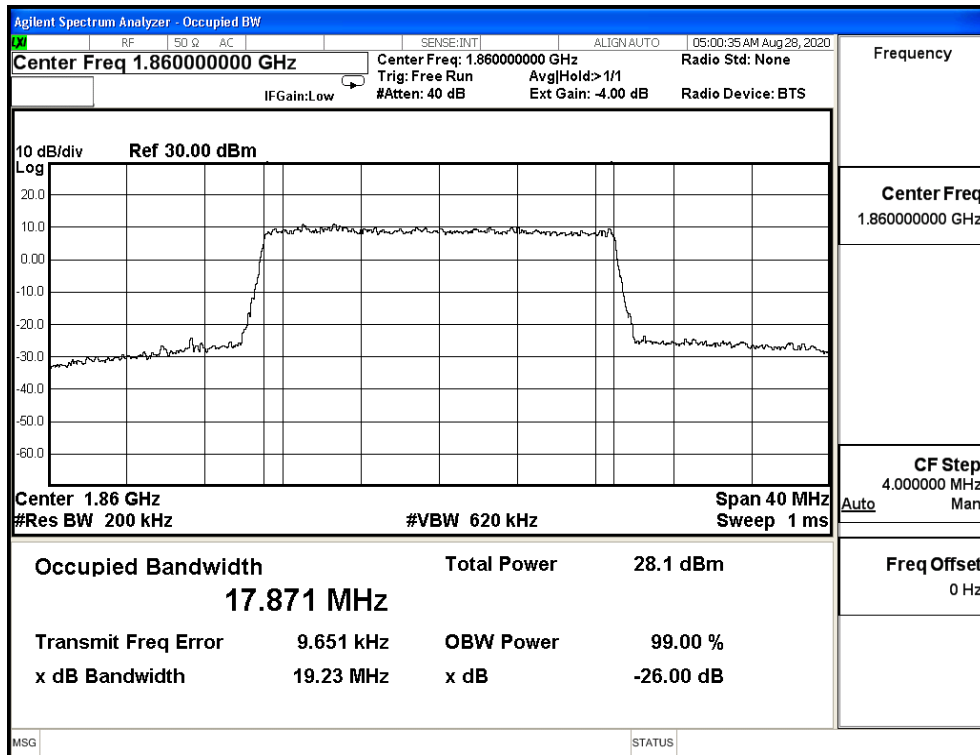
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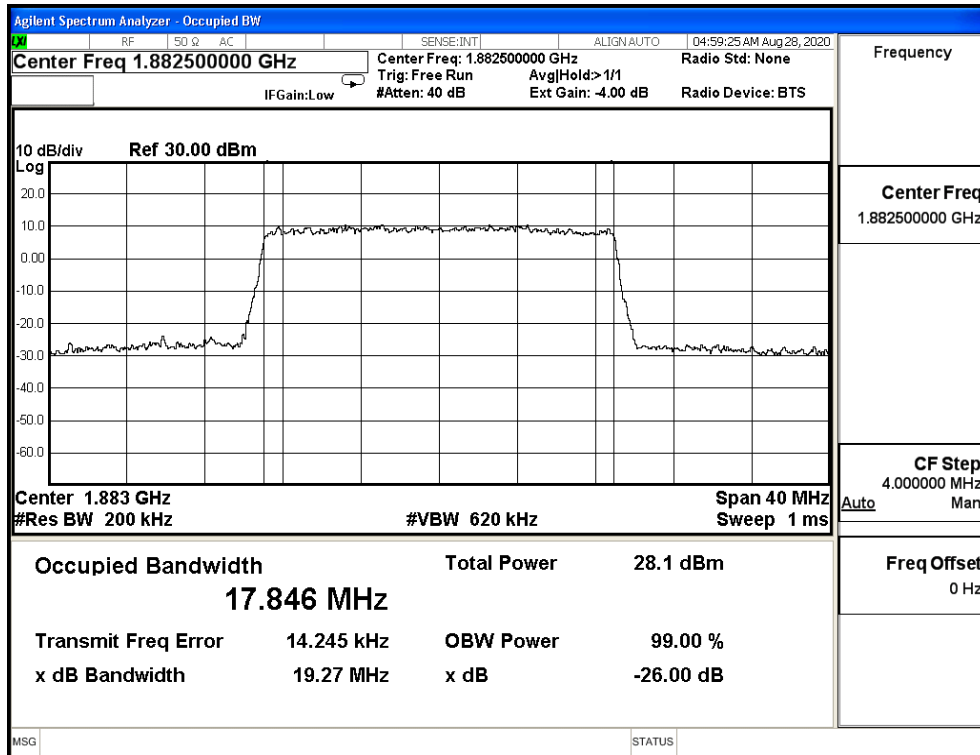
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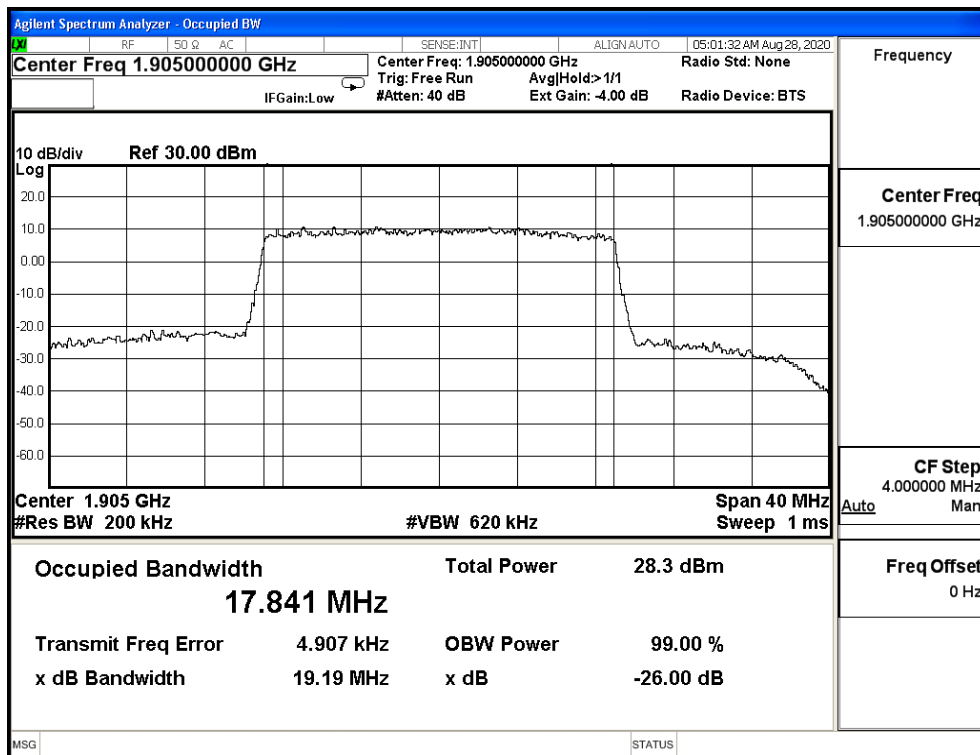
64QAM_CH26140_20M



64QAM_CH26365_20M



64QAM_CH26590_20M

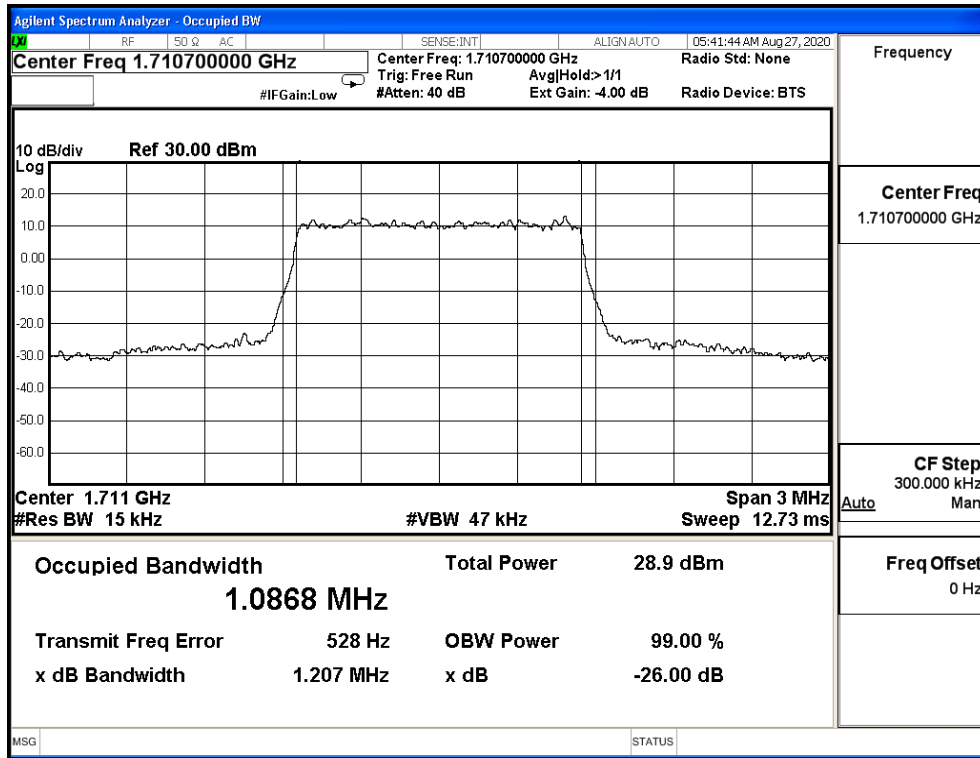


| | | | |
|-----------------|-----------------------|----------------|--------|
| Product | Module | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 2: LTE Band 4/66 | | |
| Date of Test | 2020/09/02 | Test Site | SR12-H |
| Temperature(°C) | 24 | Humidity (%RH) | 60 |

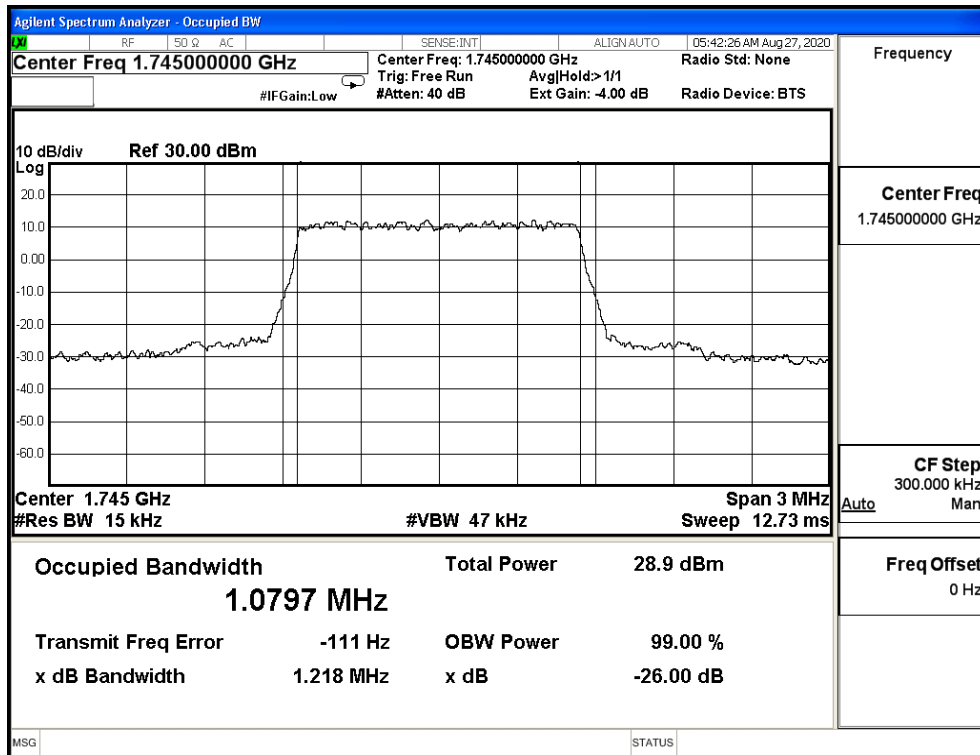
| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
|-----------------|------------|-----------------|---------------------|--------|-------------|
| | | | 26dB BW | 99% BW | |
| 1.4M | QPSK | 1710.7 | 1.207 | 1.087 | N/A |
| | | 1745 | 1.218 | 1.080 | N/A |
| | | 1779.3 | 1.216 | 1.080 | N/A |
| | 16-QAM | 1710.7 | 1.226 | 1.082 | N/A |
| | | 1745 | 1.223 | 1.082 | N/A |
| | | 1779.3 | 1.203 | 1.079 | N/A |
| | 64-QAM | 1710.7 | 1.214 | 1.080 | N/A |
| | | 1745 | 1.212 | 1.079 | N/A |
| | | 1779.3 | 1.214 | 1.079 | N/A |
| 3M | QPSK | 1711.5 | 2.926 | 2.694 | N/A |
| | | 1745 | 2.916 | 2.685 | N/A |
| | | 1778.5 | 2.950 | 2.688 | N/A |
| | 16-QAM | 1711.5 | 2.934 | 2.685 | N/A |
| | | 1745 | 2.955 | 2.684 | N/A |
| | | 1778.5 | 2.946 | 2.682 | N/A |
| | 64-QAM | 1711.5 | 2.917 | 2.682 | N/A |
| | | 1745 | 2.908 | 2.683 | N/A |
| | | 1778.5 | 2.912 | 2.684 | N/A |
| 5M | QPSK | 1712.5 | 4.908 | 4.490 | N/A |
| | | 1745 | 4.876 | 4.481 | N/A |
| | | 1777.5 | 4.893 | 4.469 | N/A |
| | 16-QAM | 1712.5 | 4.880 | 4.473 | N/A |
| | | 1745 | 4.894 | 4.481 | N/A |
| | | 1777.5 | 4.904 | 4.475 | N/A |
| | 64-QAM | 1712.5 | 4.878 | 4.486 | N/A |
| | | 1745 | 4.893 | 4.483 | N/A |
| | | 1777.5 | 4.889 | 4.483 | N/A |

| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
|-----------------|------------|-----------------|---------------------|--------|-------------|
| | | | 26dB BW | 99% BW | |
| 10M | QPSK | 1715 | 9.642 | 8.950 | N/A |
| | | 1745 | 9.701 | 8.960 | N/A |
| | | 1775 | 9.600 | 8.950 | N/A |
| | 16-QAM | 1715 | 9.655 | 8.949 | N/A |
| | | 1745 | 9.610 | 8.952 | N/A |
| | | 1775 | 9.639 | 8.945 | N/A |
| | 64-QAM | 1715 | 9.642 | 8.937 | N/A |
| | | 1745 | 9.641 | 8.942 | N/A |
| | | 1775 | 9.652 | 8.940 | N/A |
| 15M | QPSK | 1717.5 | 14.550 | 13.437 | N/A |
| | | 1745 | 14.510 | 13.418 | N/A |
| | | 1772.5 | 14.400 | 13.399 | N/A |
| | 16-QAM | 1717.5 | 14.510 | 13.424 | N/A |
| | | 1745 | 14.340 | 13.415 | N/A |
| | | 1772.5 | 14.400 | 13.412 | N/A |
| | 64-QAM | 1717.5 | 14.510 | 13.393 | N/A |
| | | 1745 | 14.510 | 13.383 | N/A |
| | | 1772.5 | 14.490 | 13.395 | N/A |
| 20M | QPSK | 1720 | 19.080 | 17.850 | N/A |
| | | 1745 | 19.400 | 17.911 | N/A |
| | | 1770 | 19.060 | 17.853 | N/A |
| | 16-QAM | 1720 | 19.150 | 17.903 | N/A |
| | | 1745 | 19.220 | 17.879 | N/A |
| | | 1770 | 19.170 | 17.877 | N/A |
| | 64-QAM | 1720 | 19.230 | 17.857 | N/A |
| | | 1745 | 19.280 | 17.878 | N/A |
| | | 1770 | 19.230 | 17.872 | N/A |

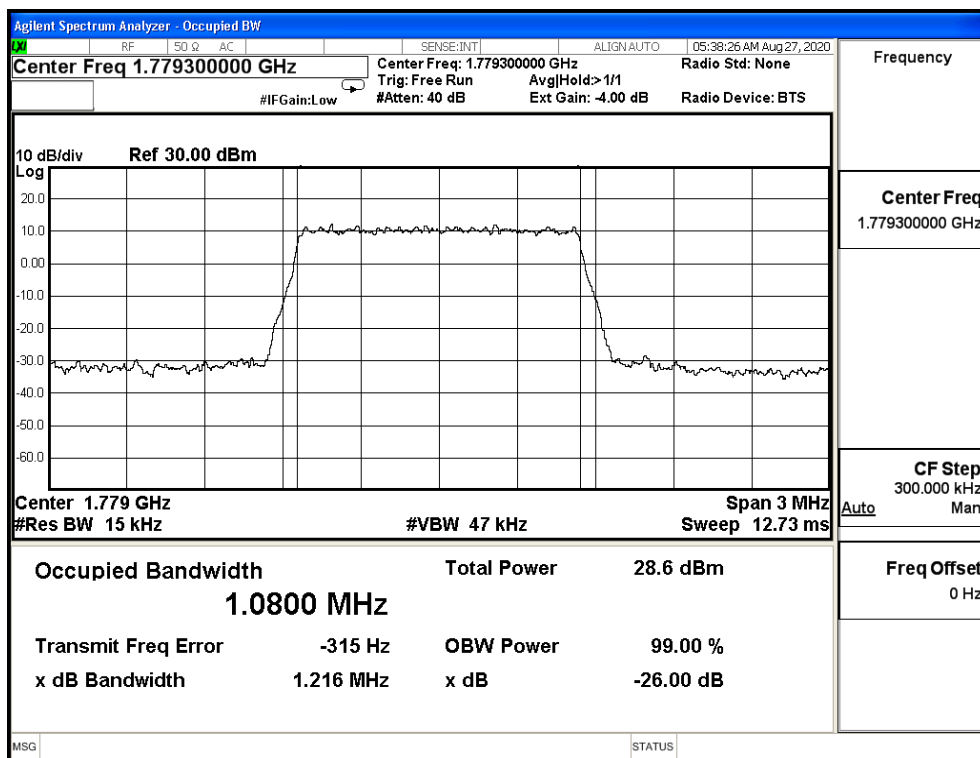
QPSK_CH131979_ 1.4M



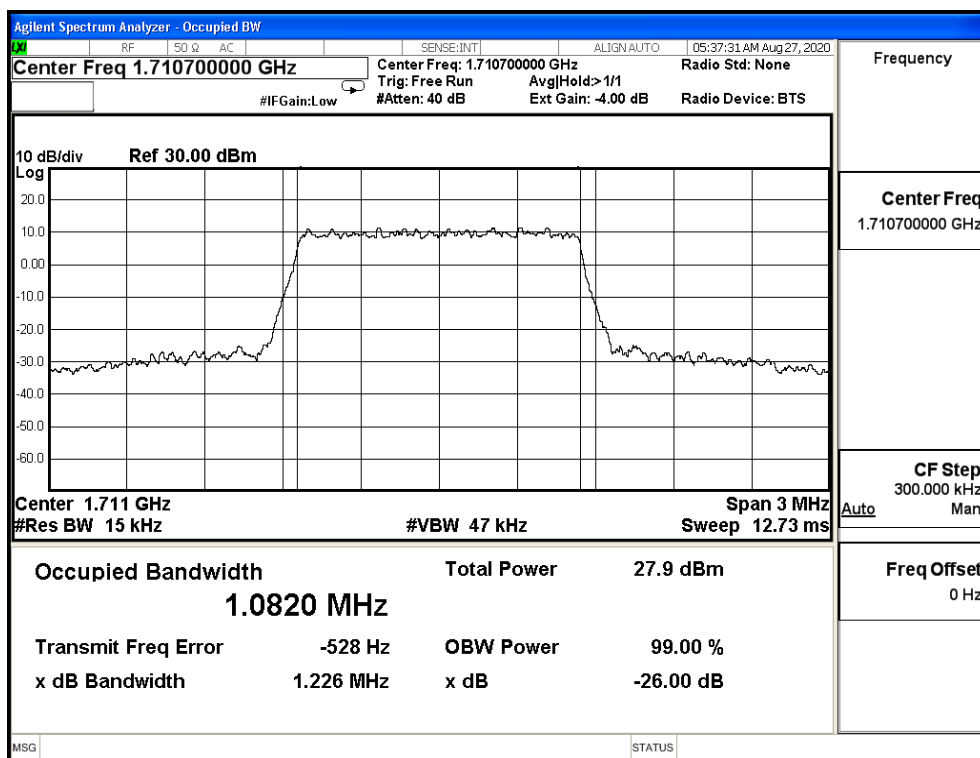
QPSK_CH132322_ 1.4M



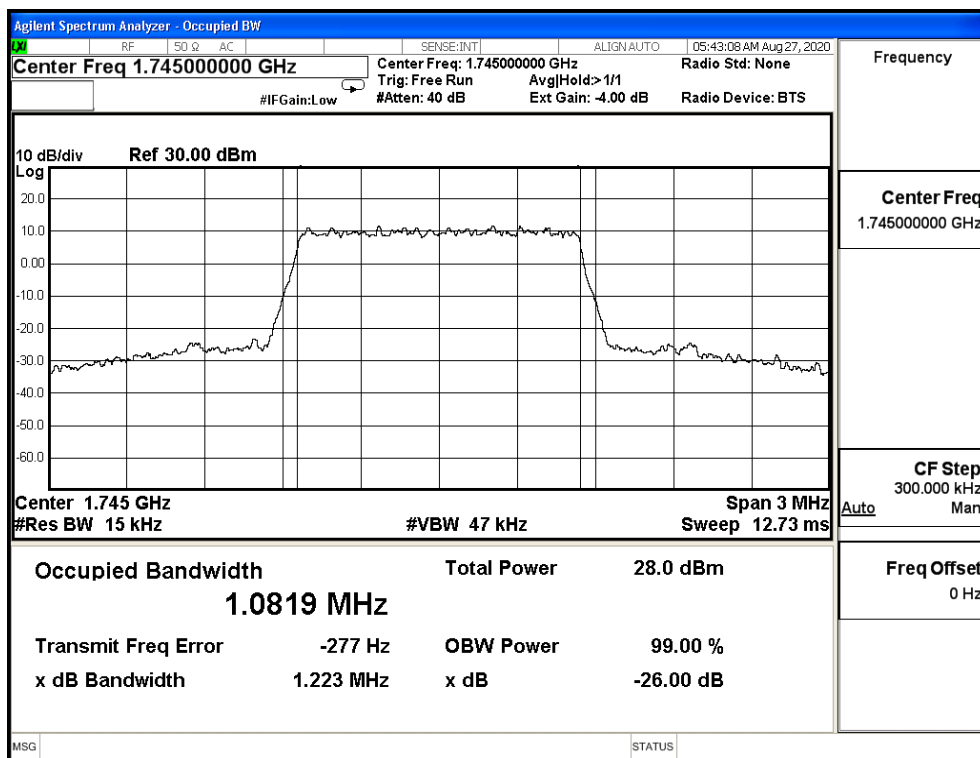
QPSK_CH132665_ 1.4M



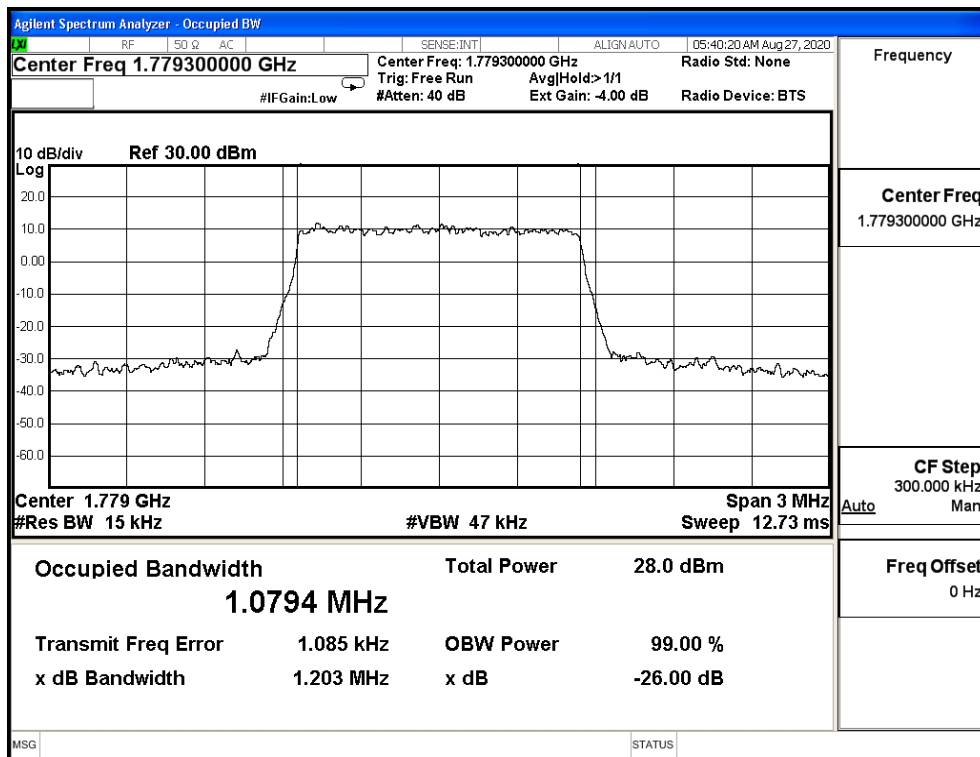
16QAM_CH131979_ 1.4M



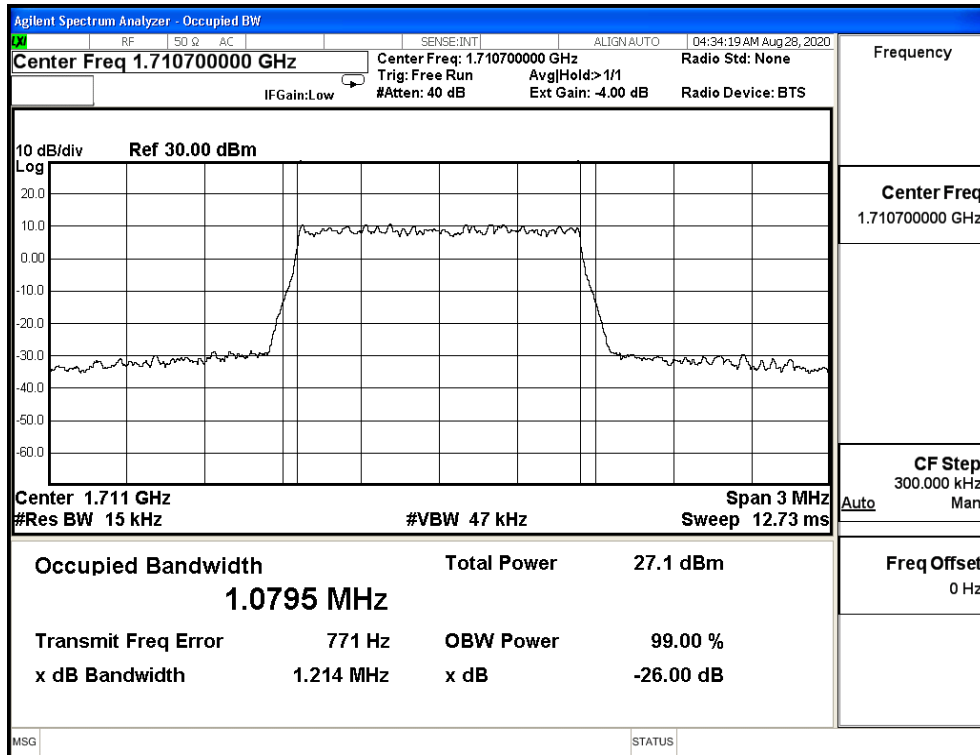
16QAM_CH132322_ 1.4M



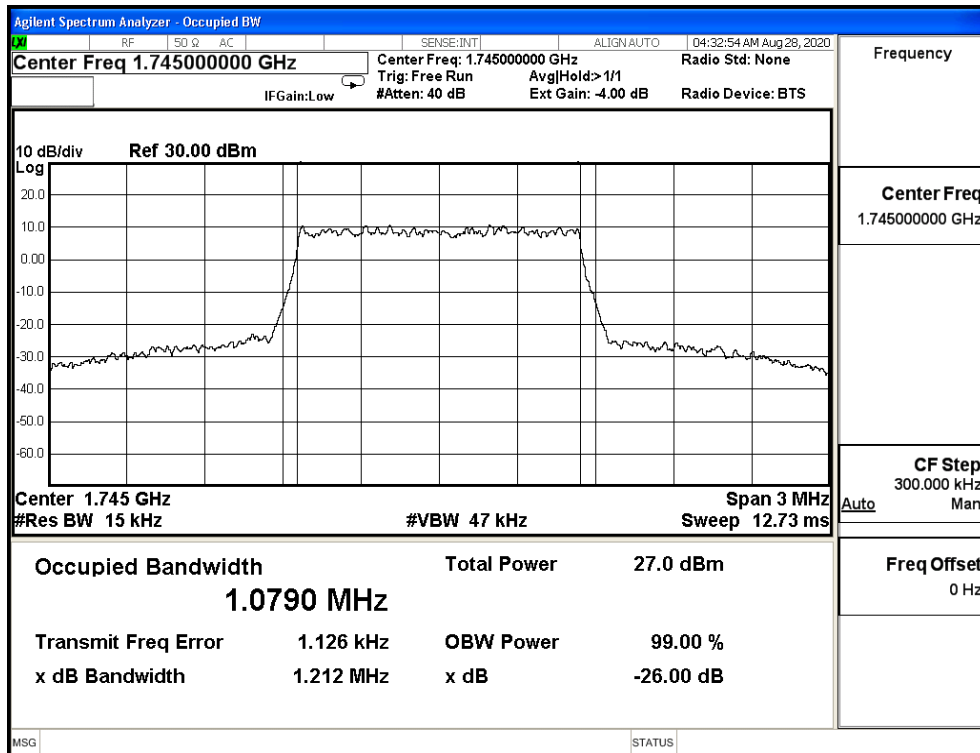
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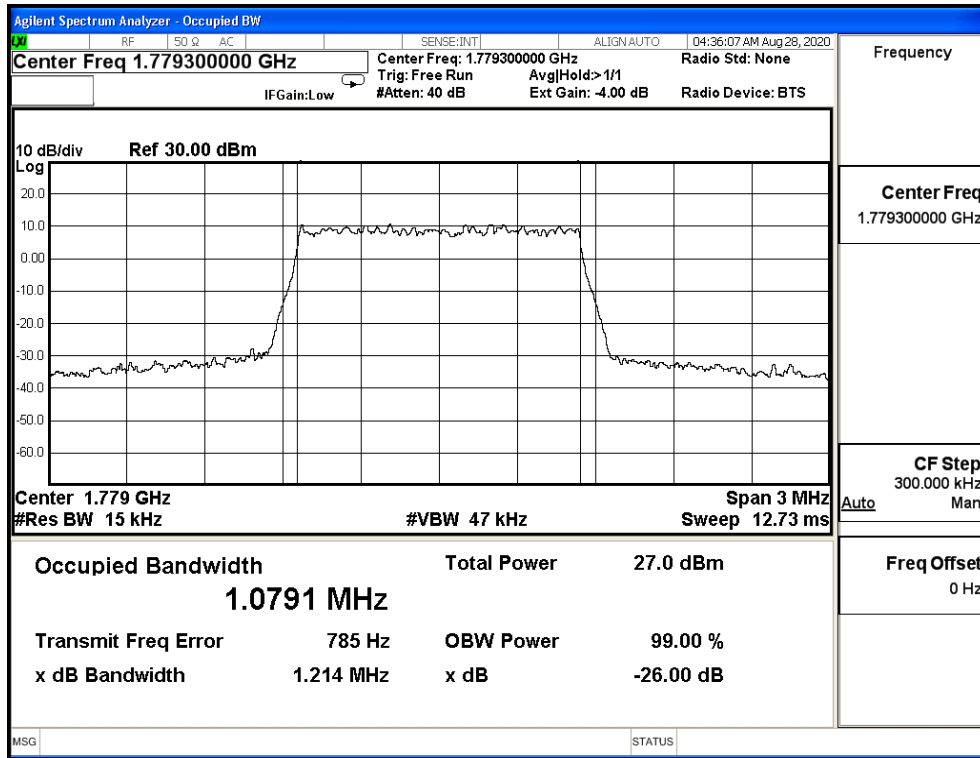
64QAM_CH131979_ 1.4M



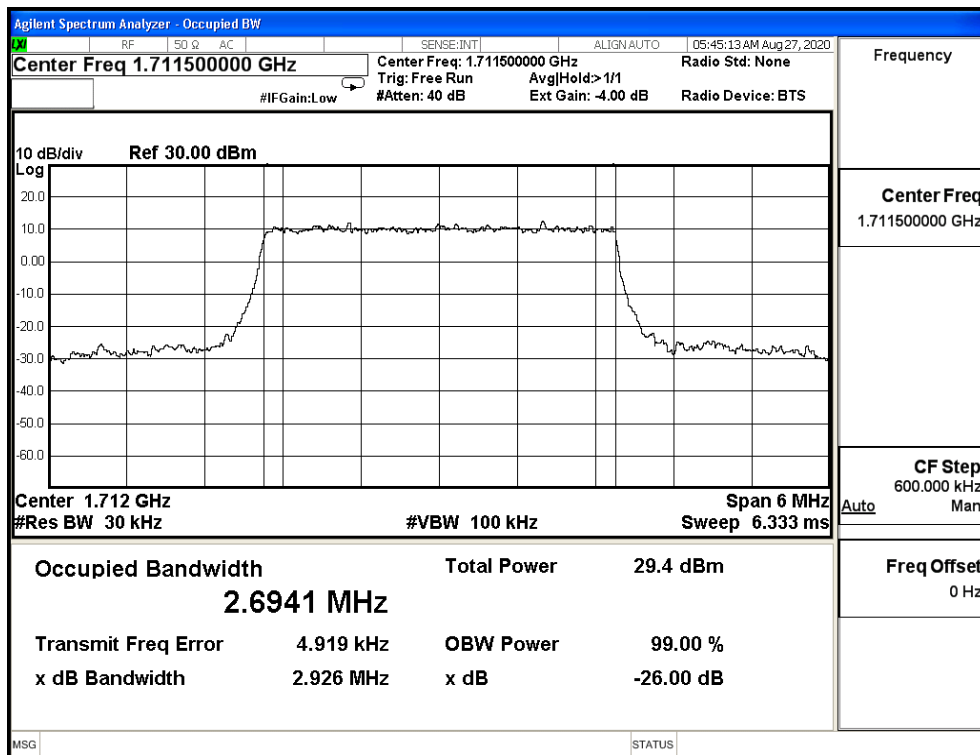
64QAM_CH132322_ 1.4M



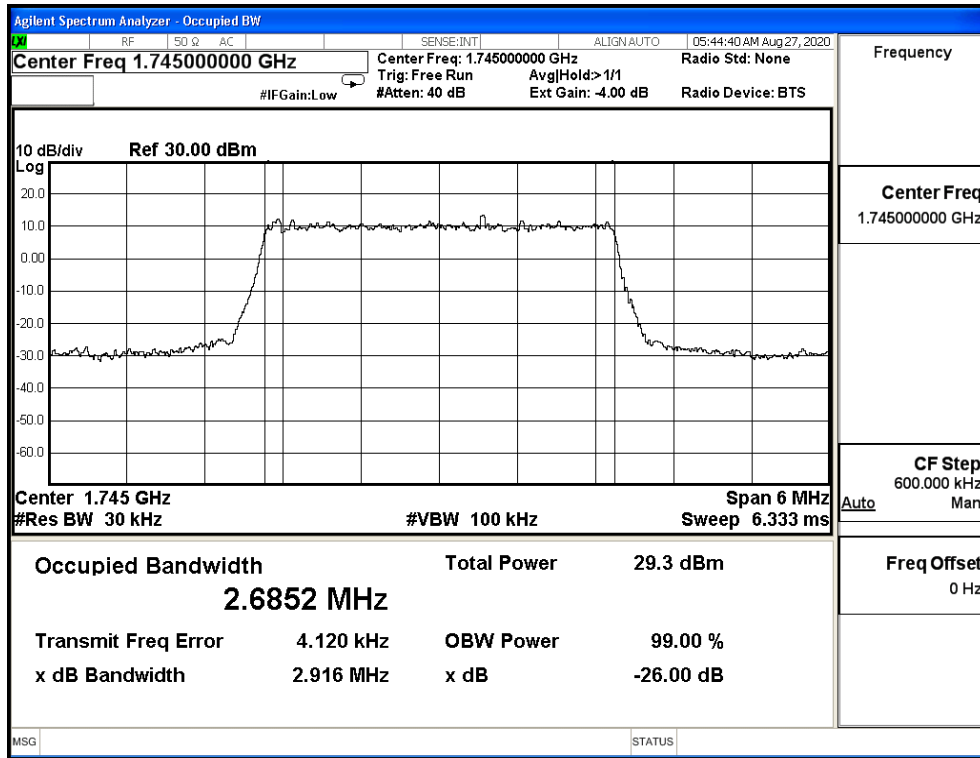
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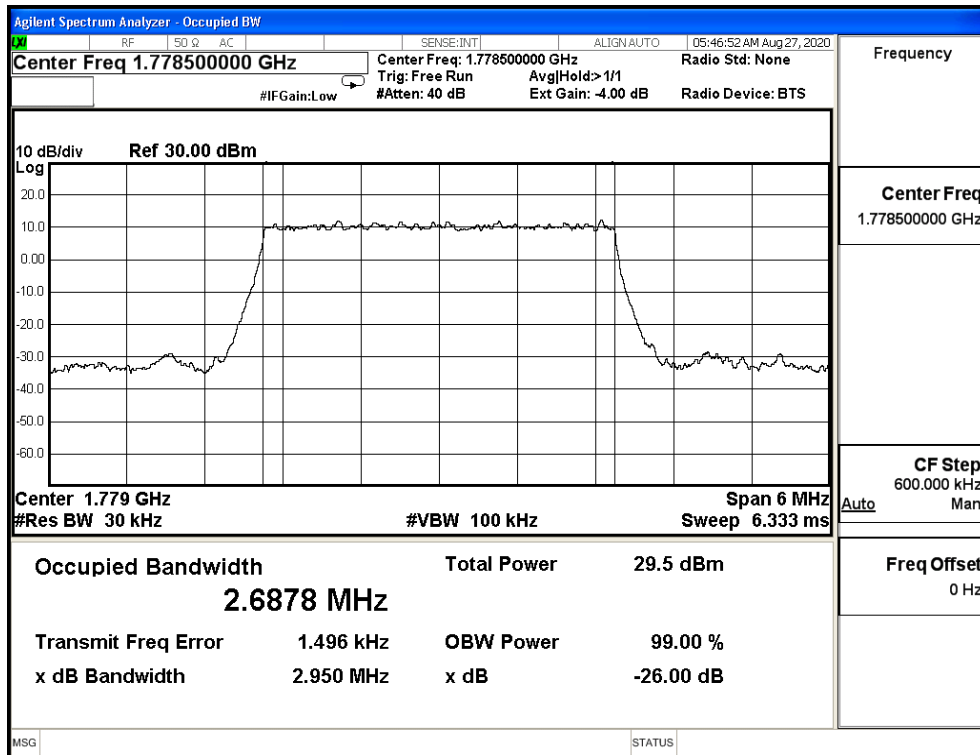
QPSK_CH131987_3M



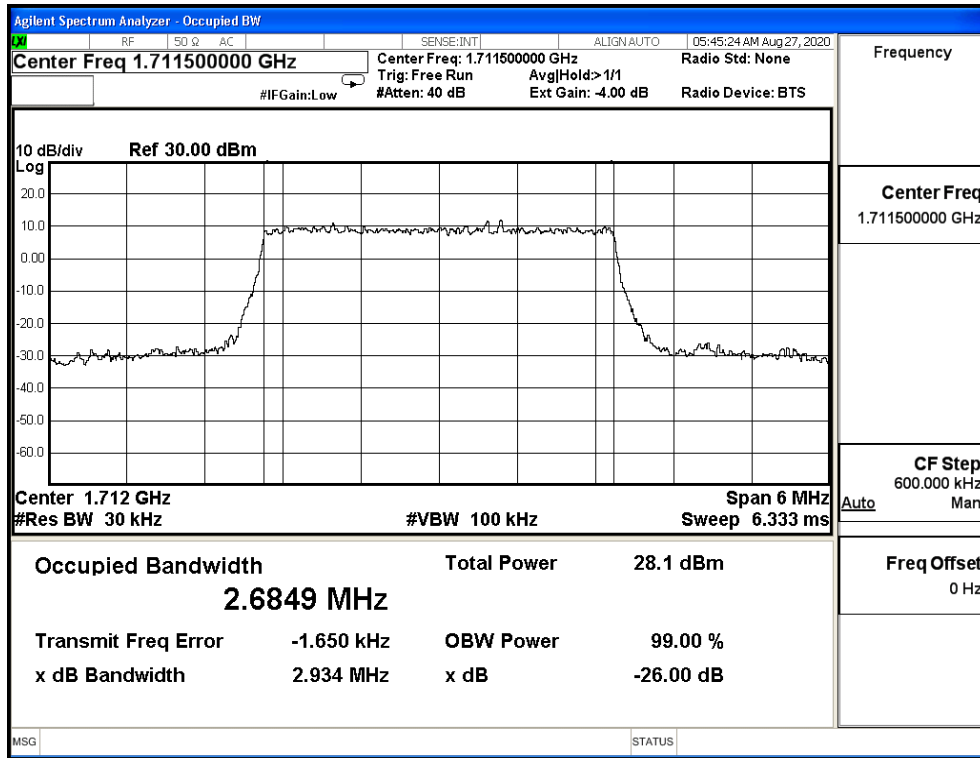
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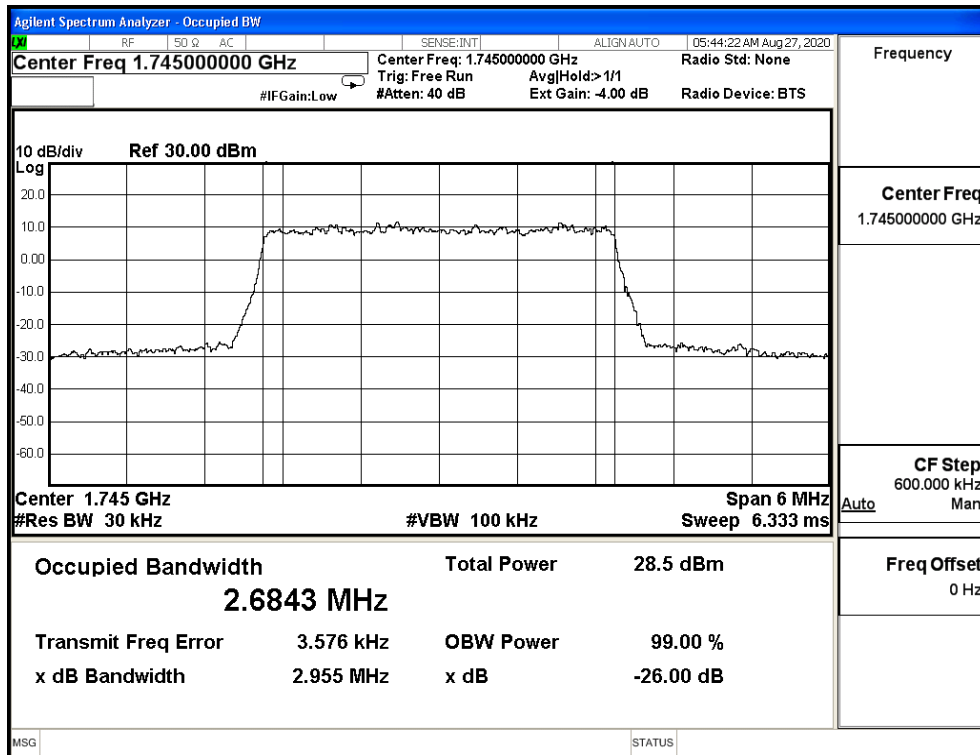
QPSK_CH132657_3M



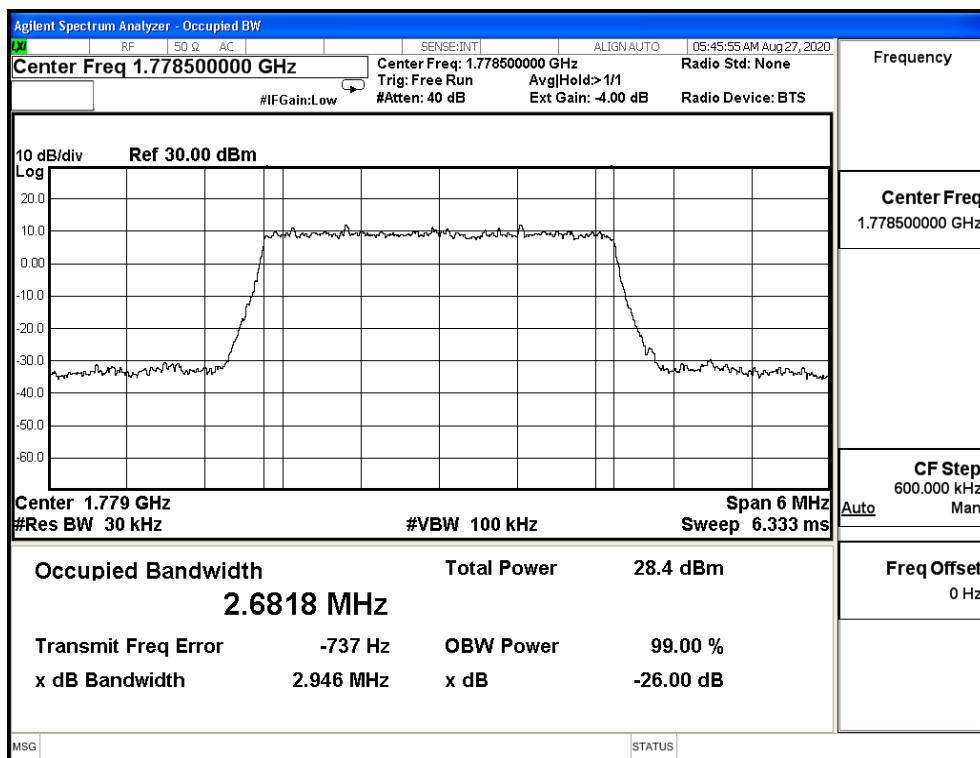
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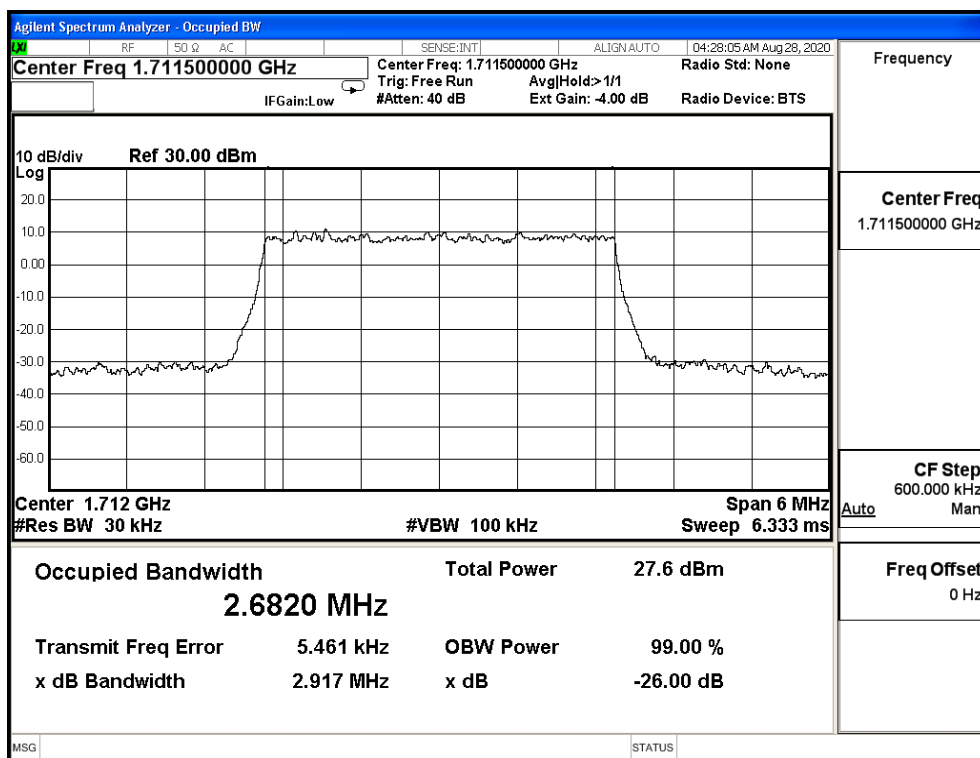
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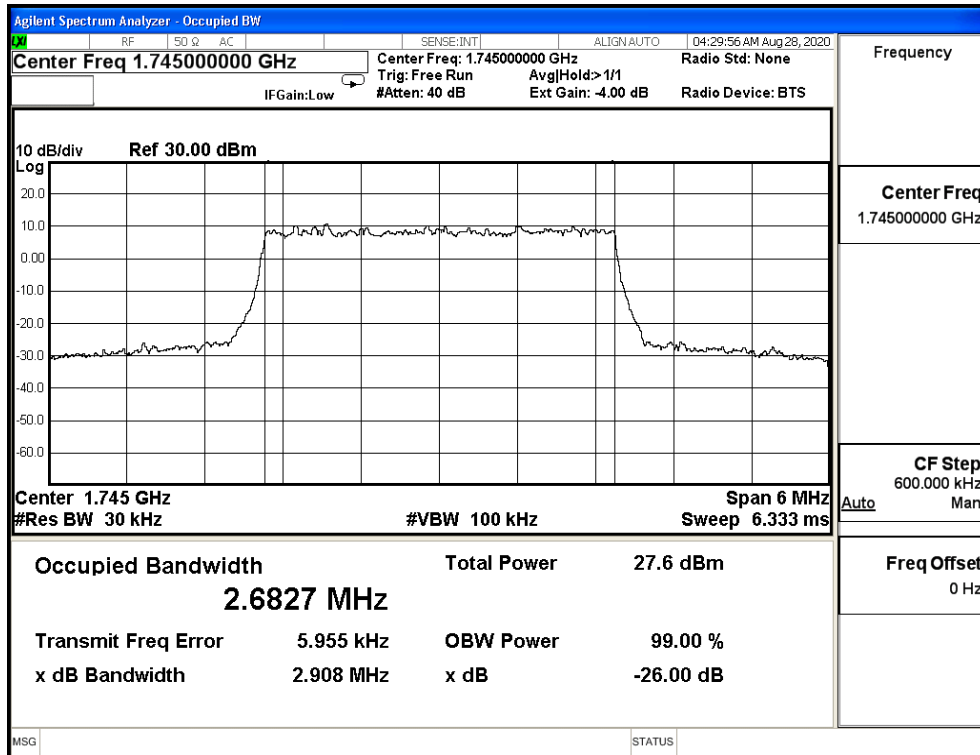
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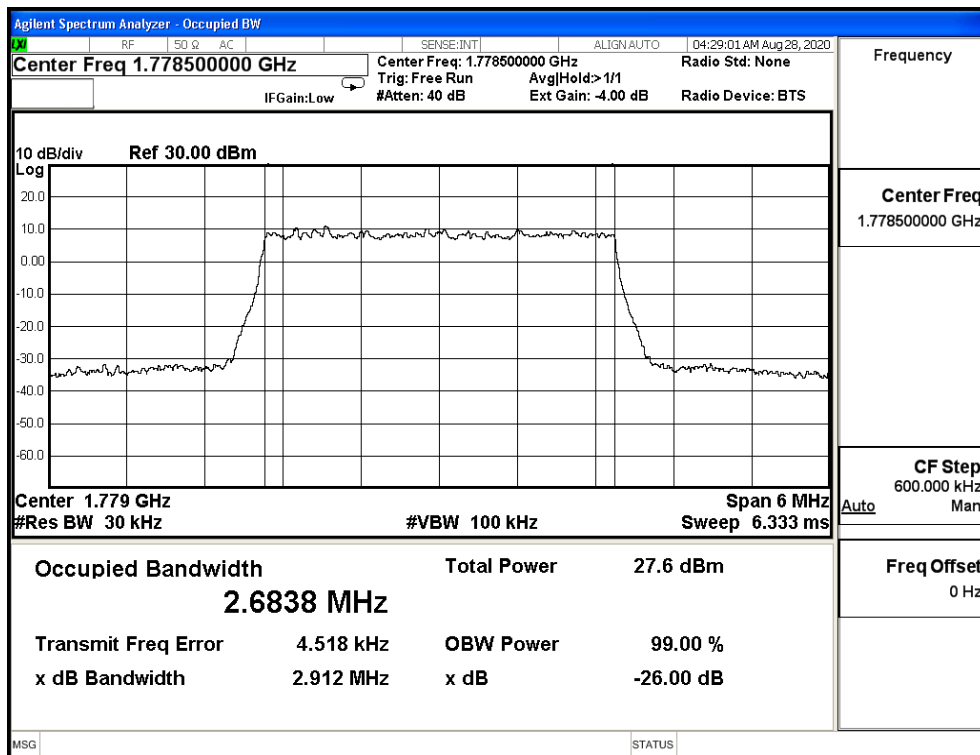
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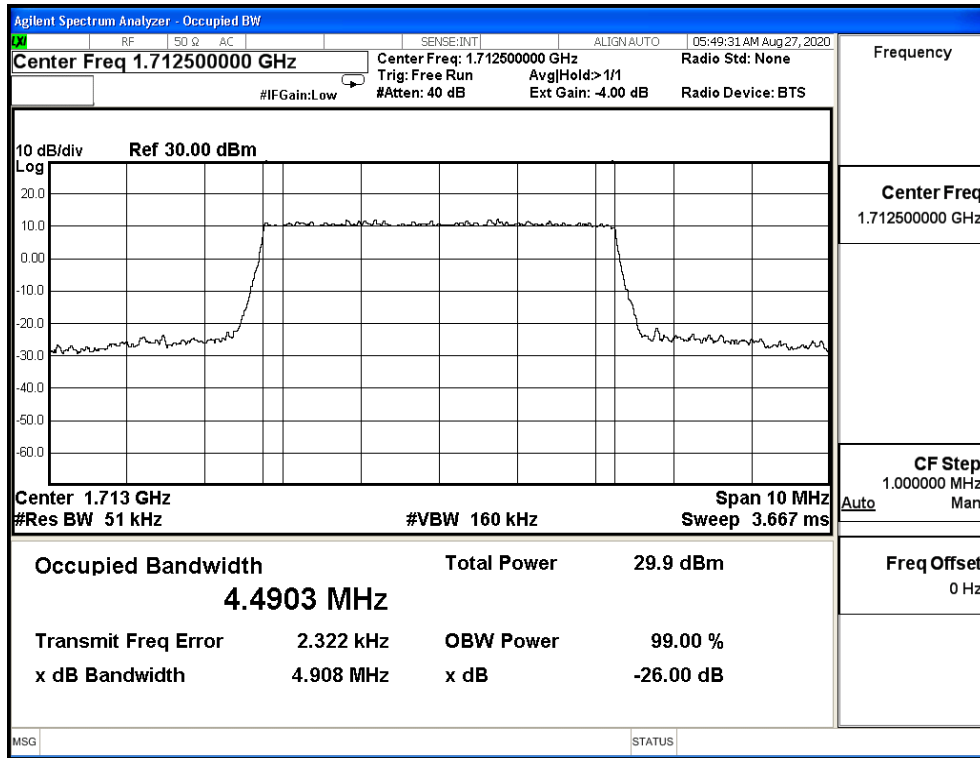
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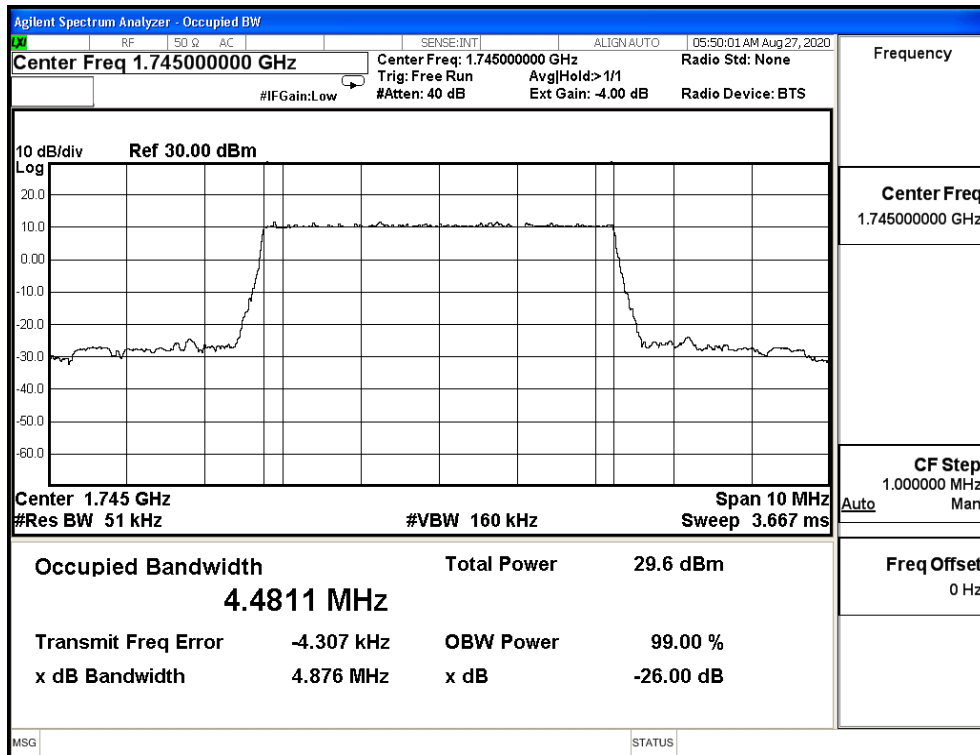
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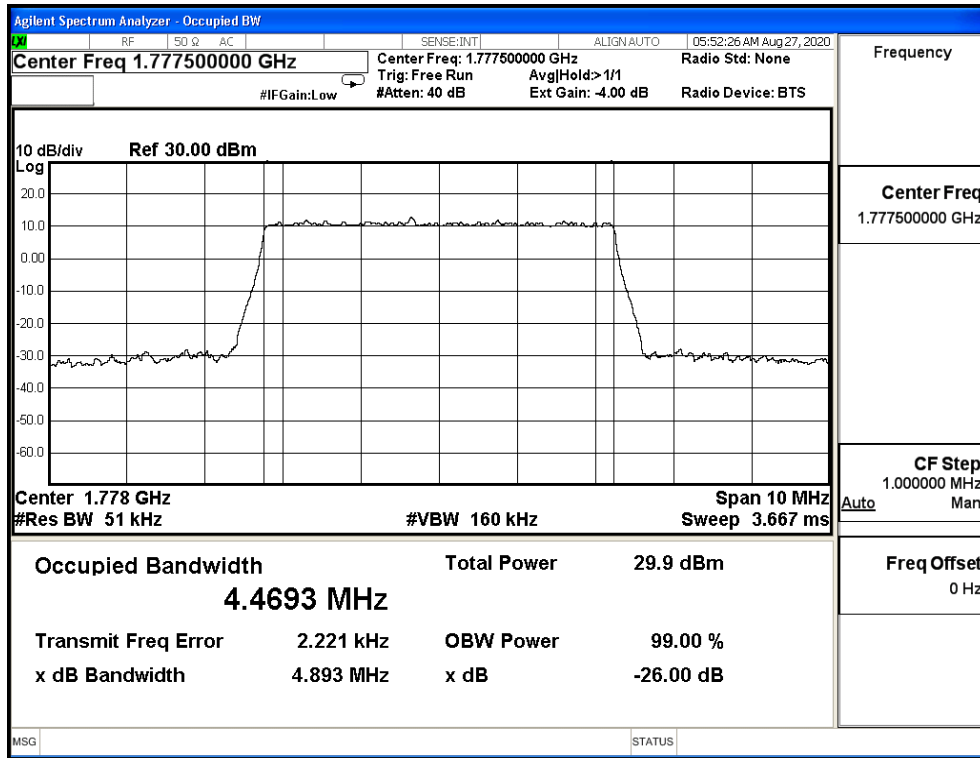
QPSK_CH131997_5M



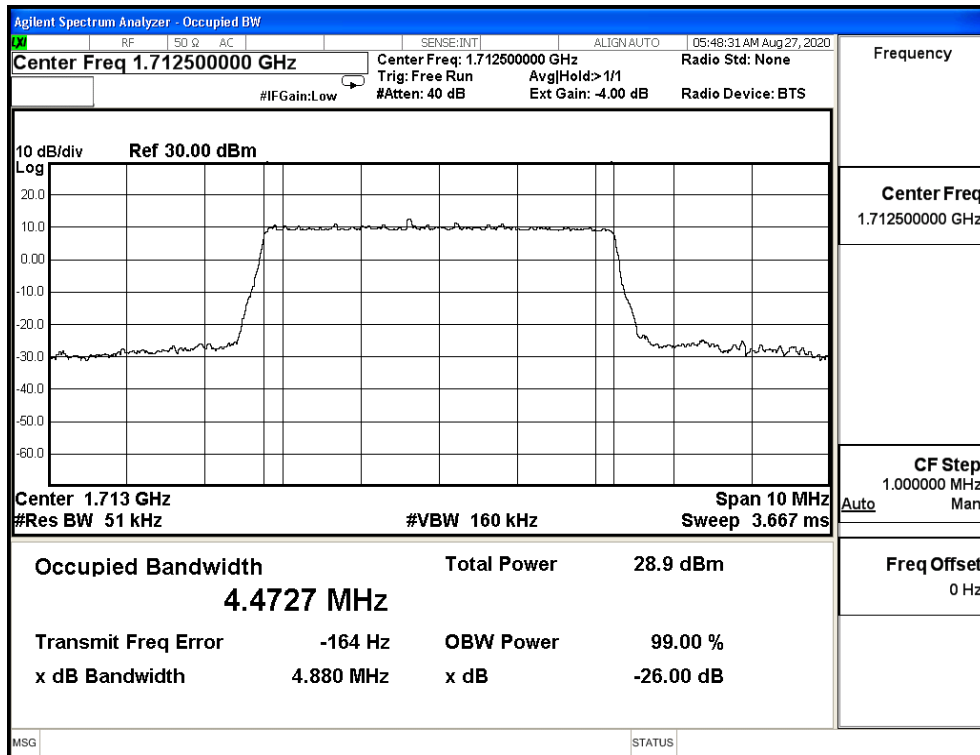
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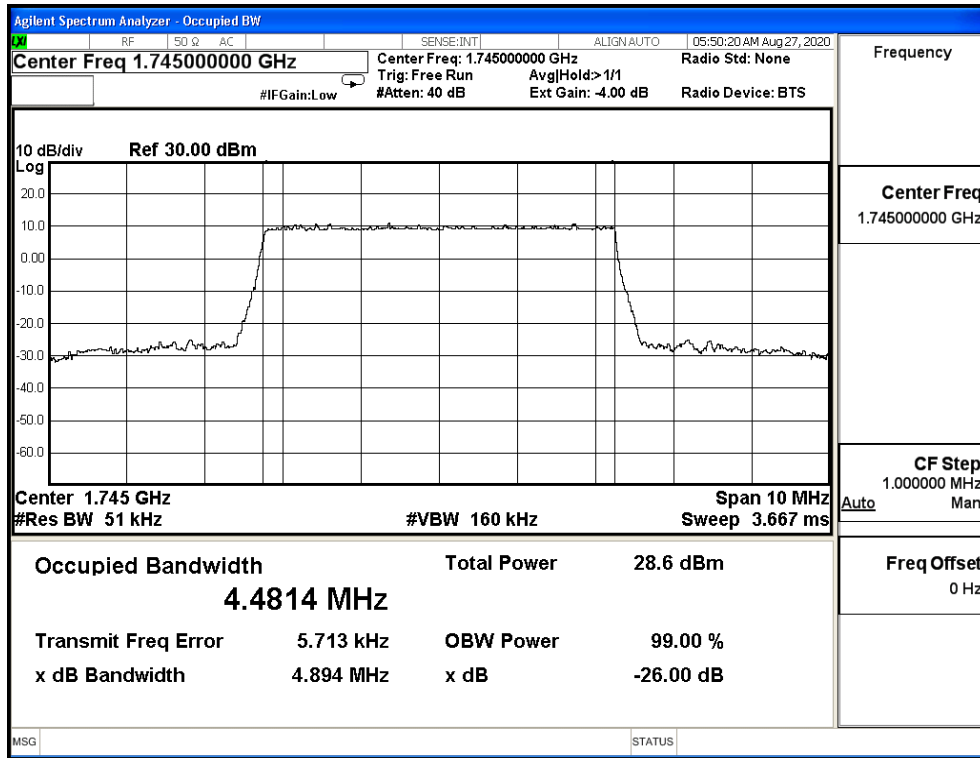
QPSK_CH132647_5M



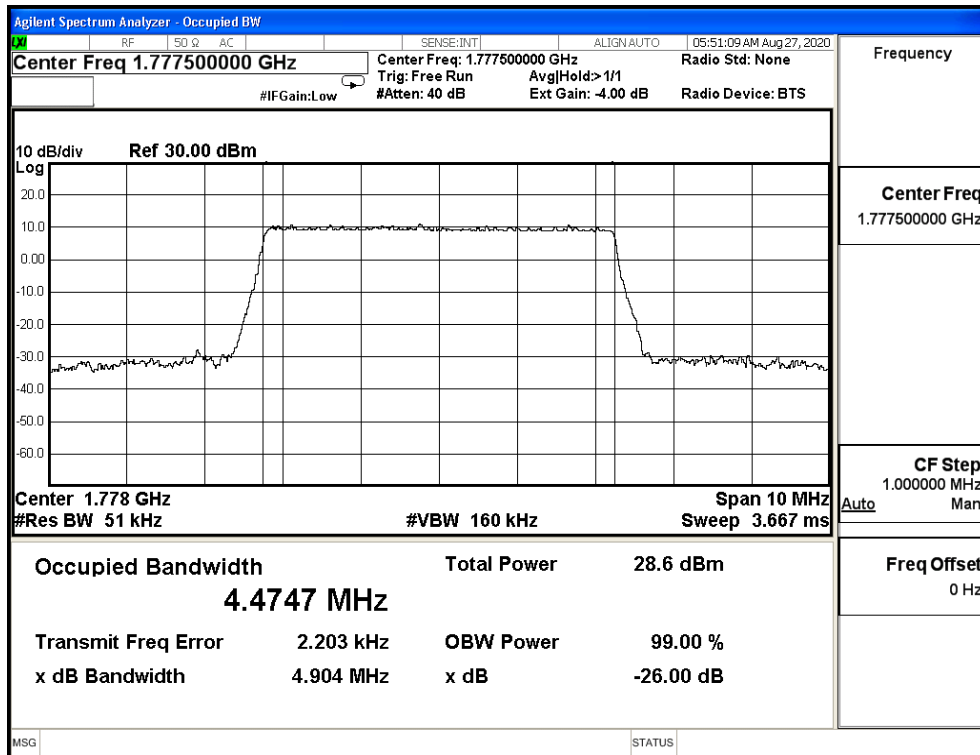
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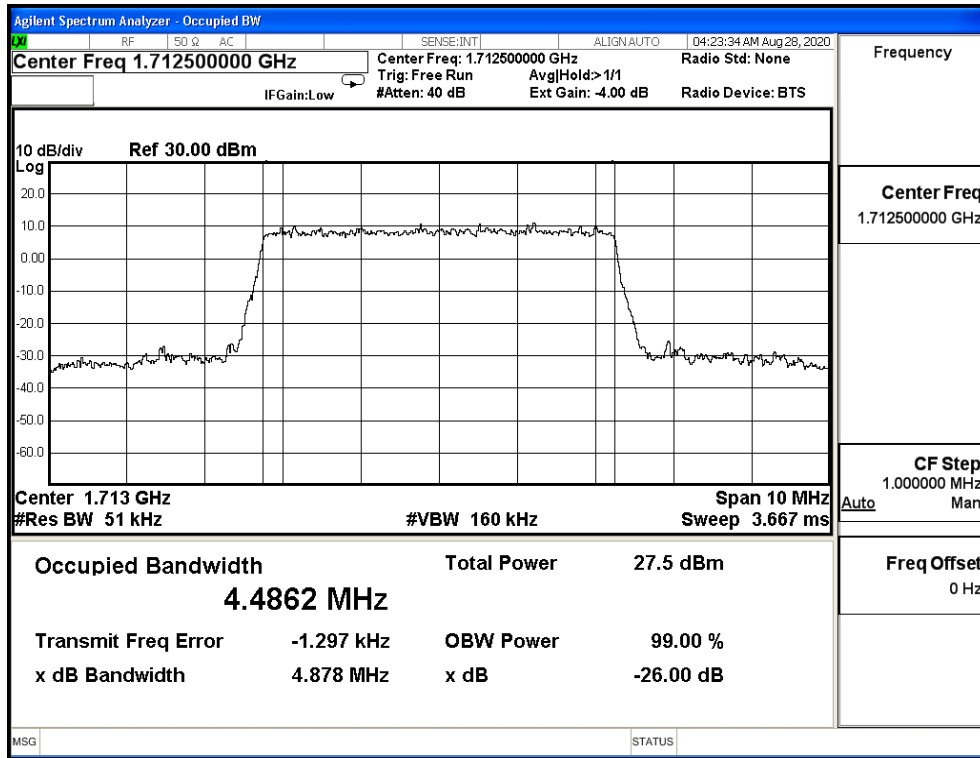
16QAM_CH132322_5M



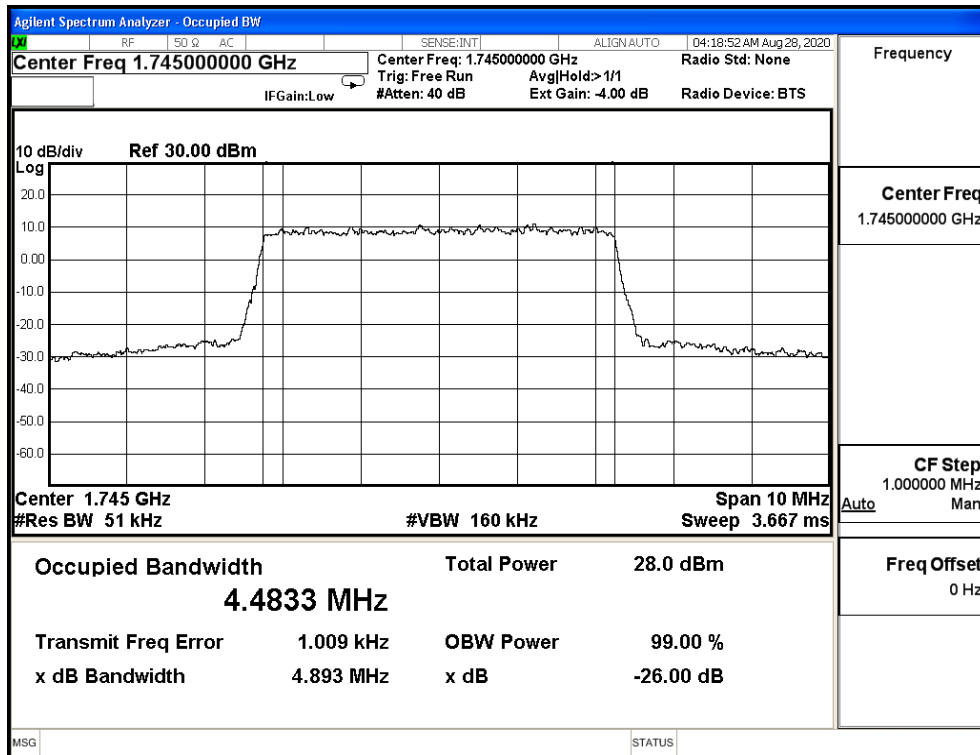
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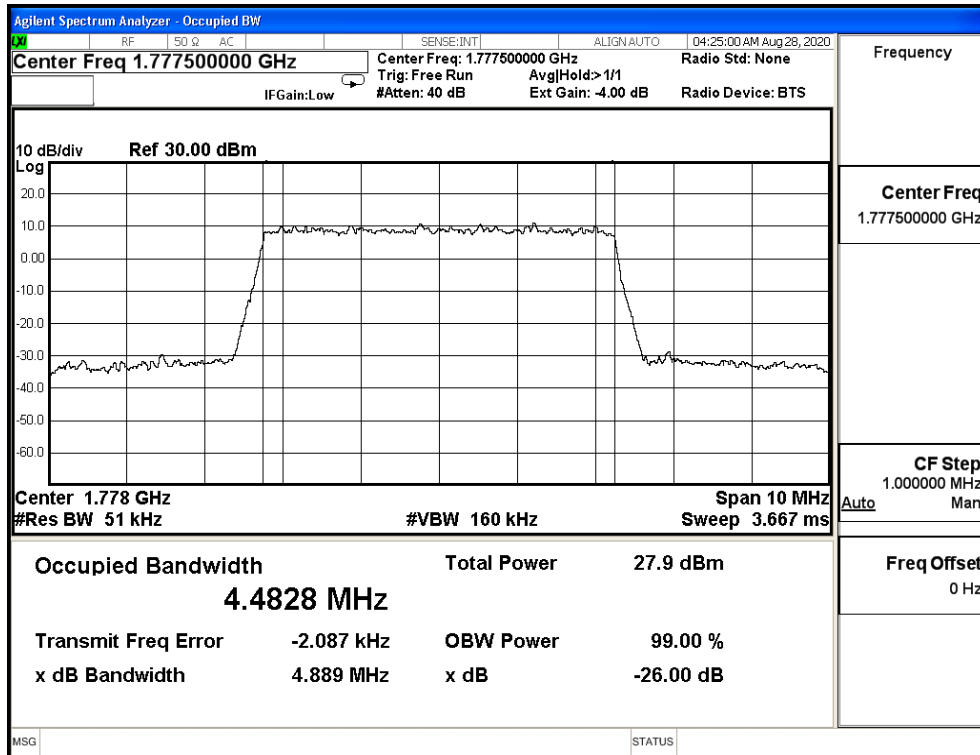
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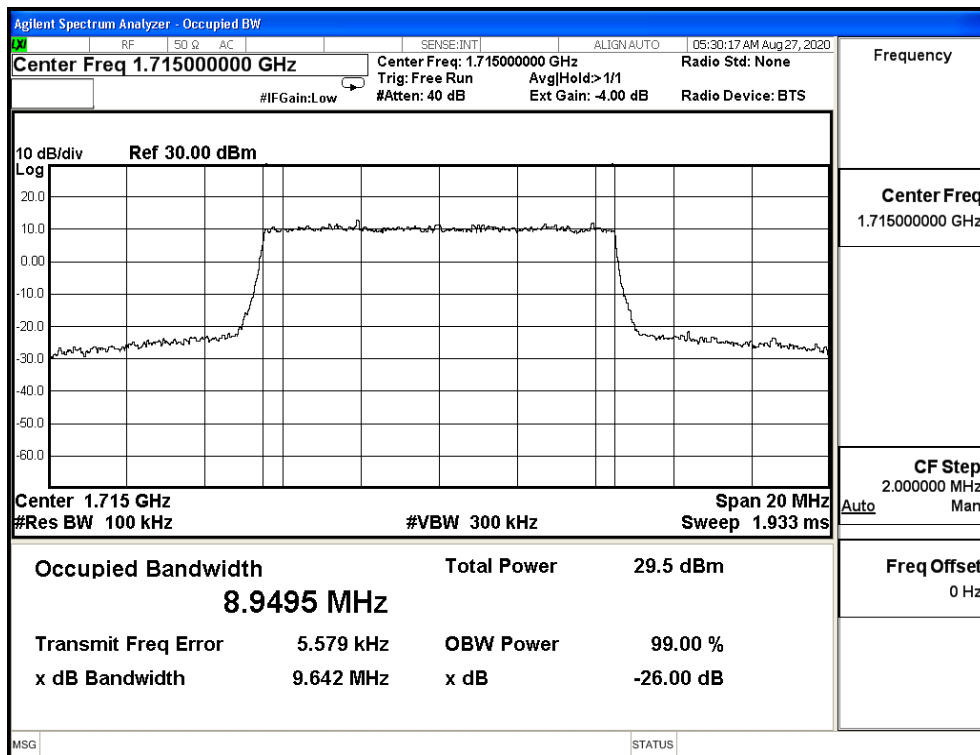
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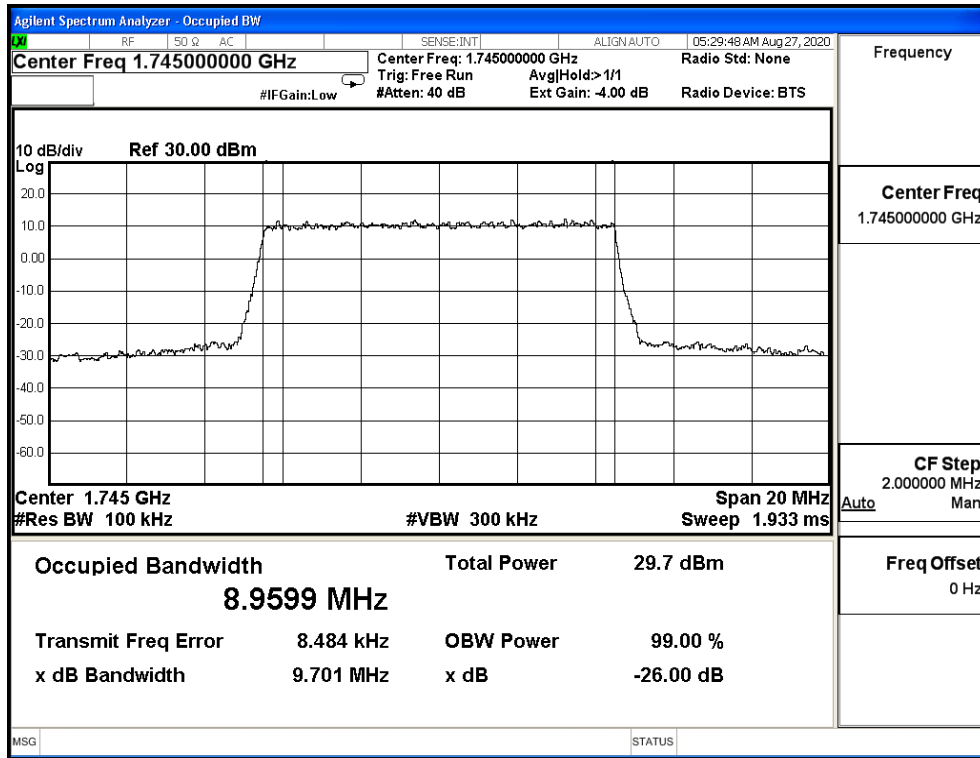
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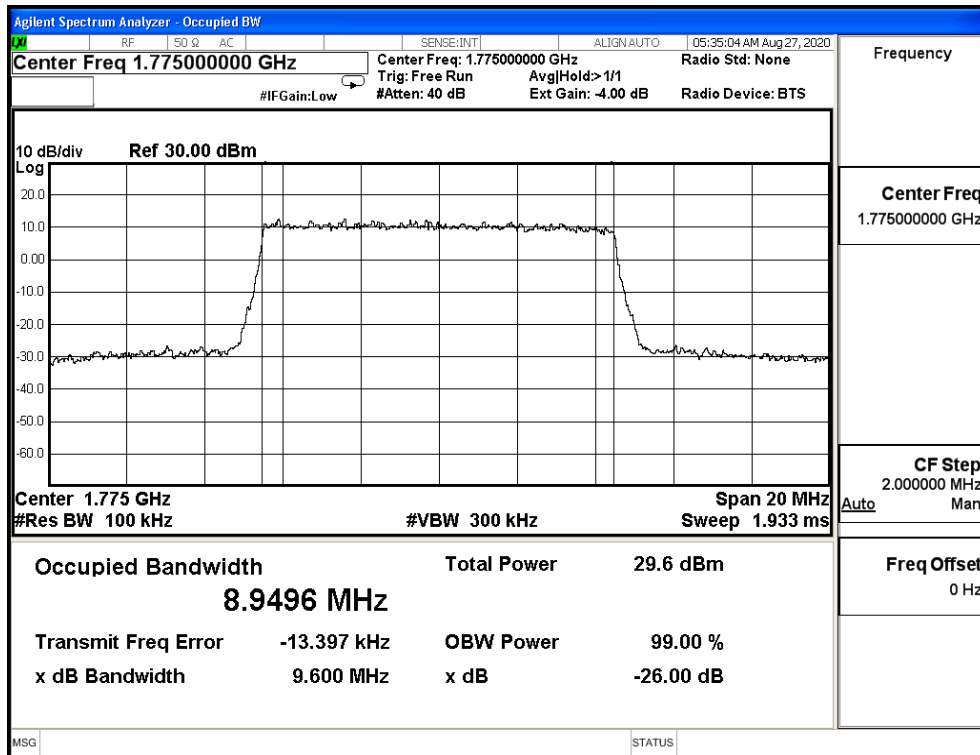
QPSK_CH132022_10M



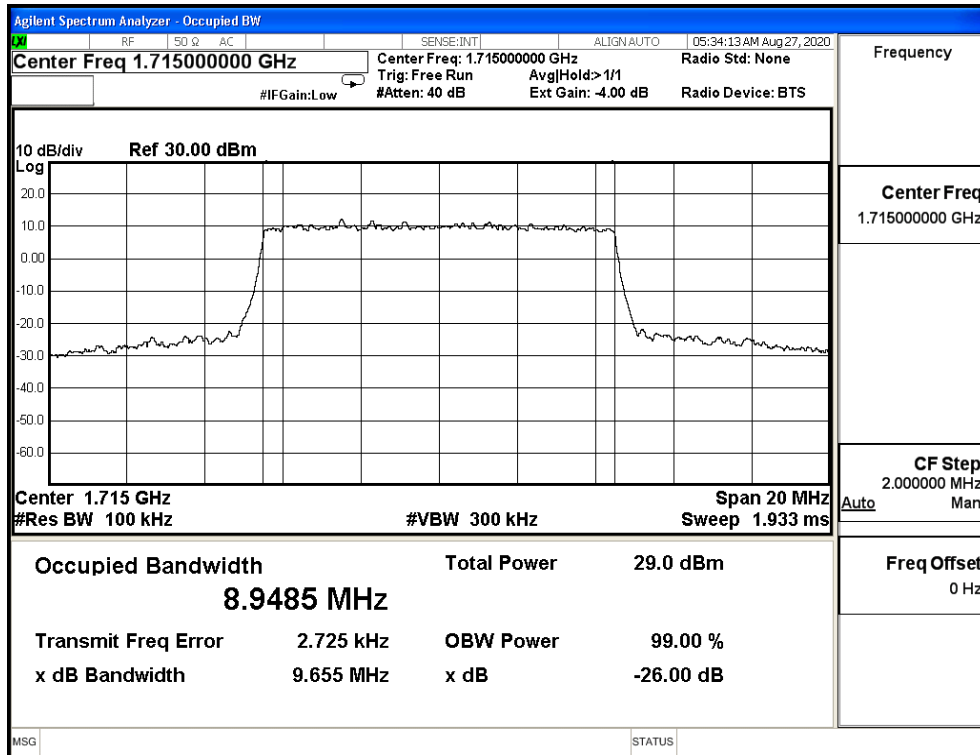
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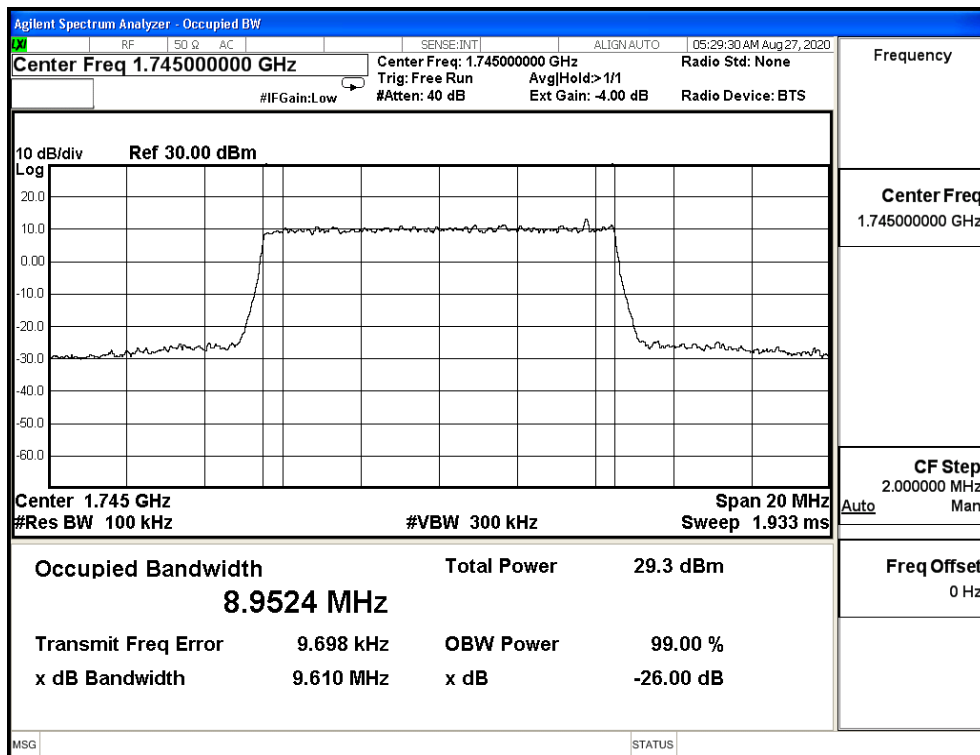
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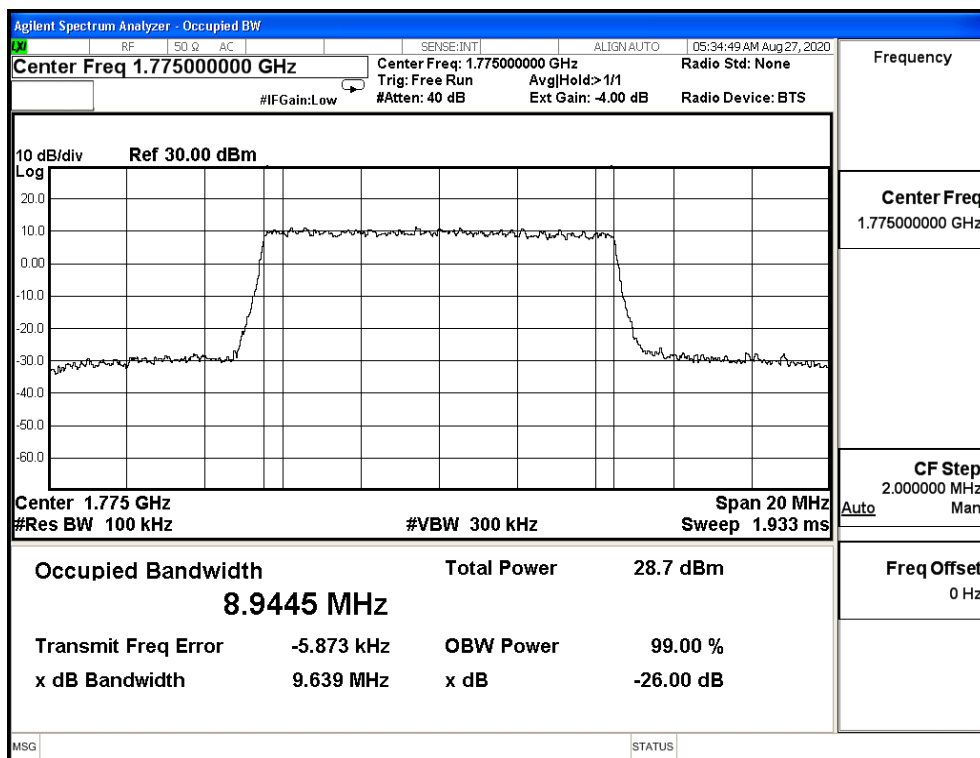
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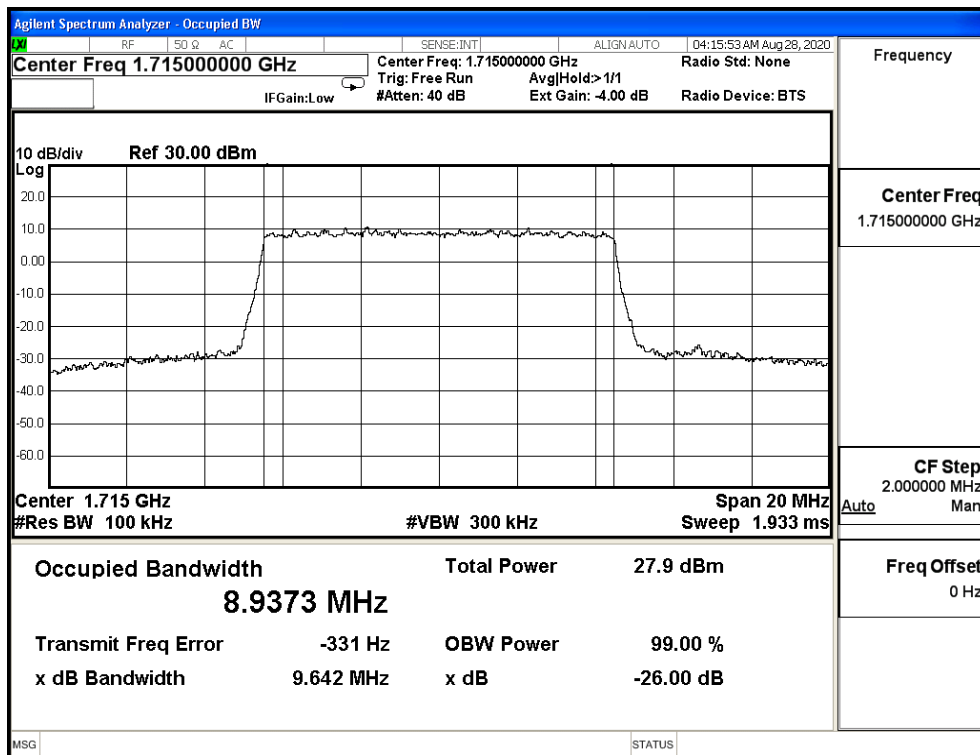
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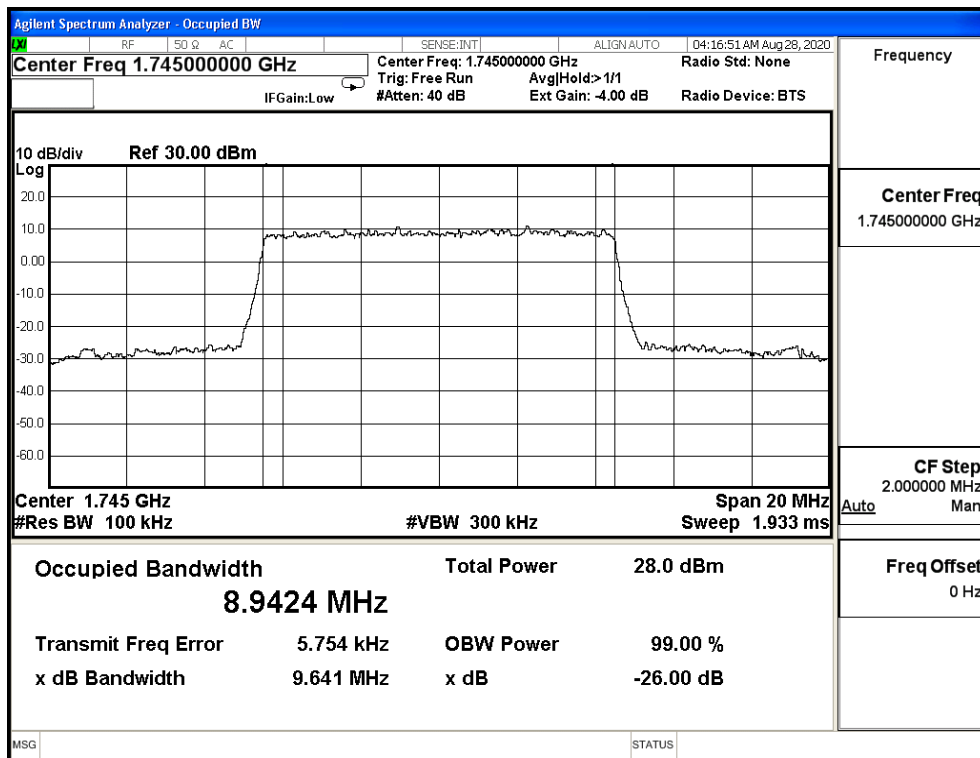
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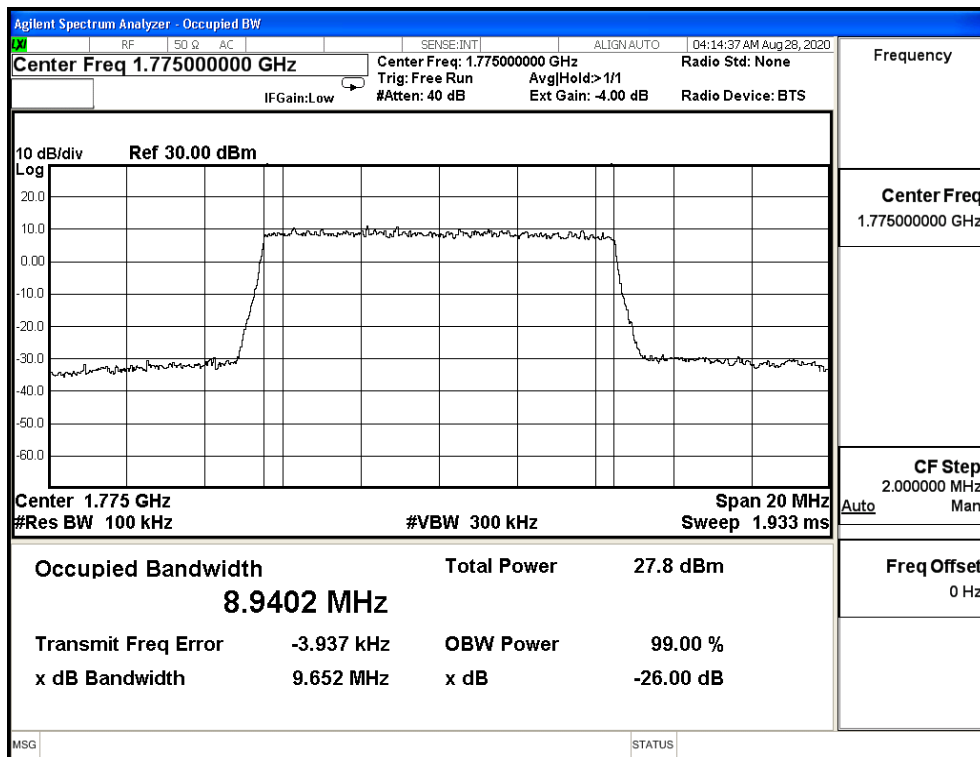
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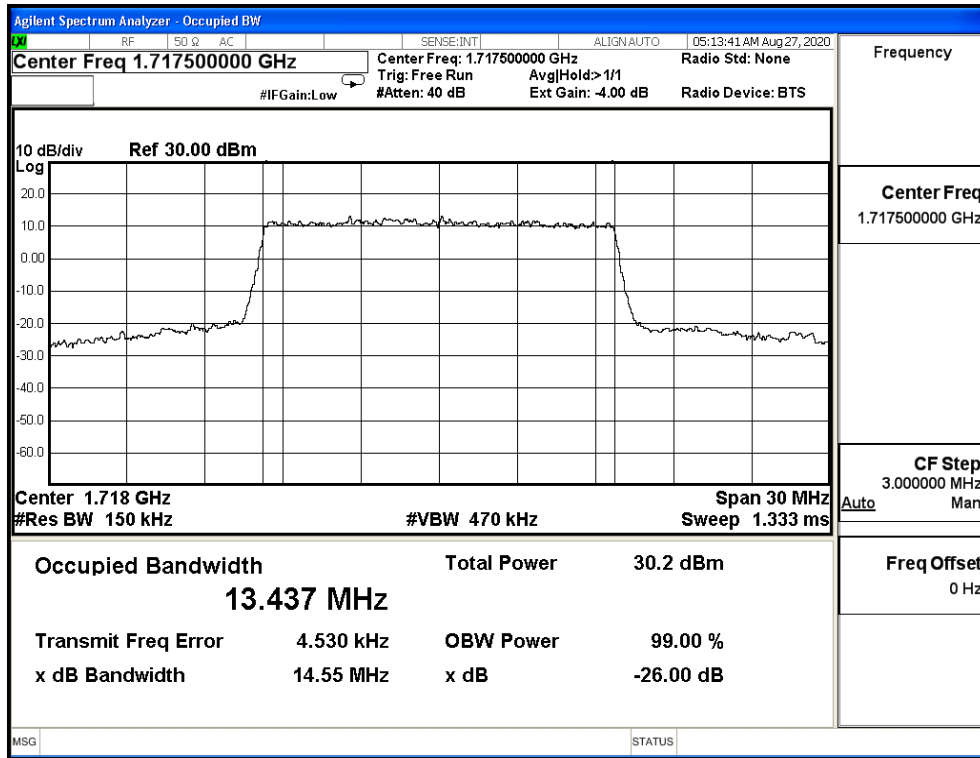
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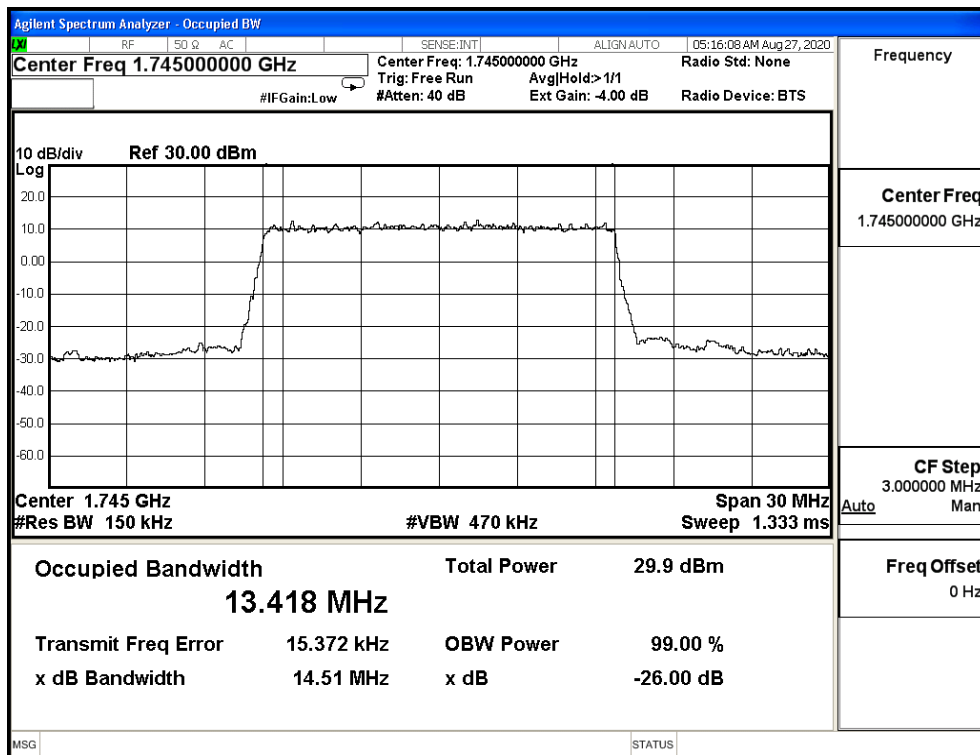
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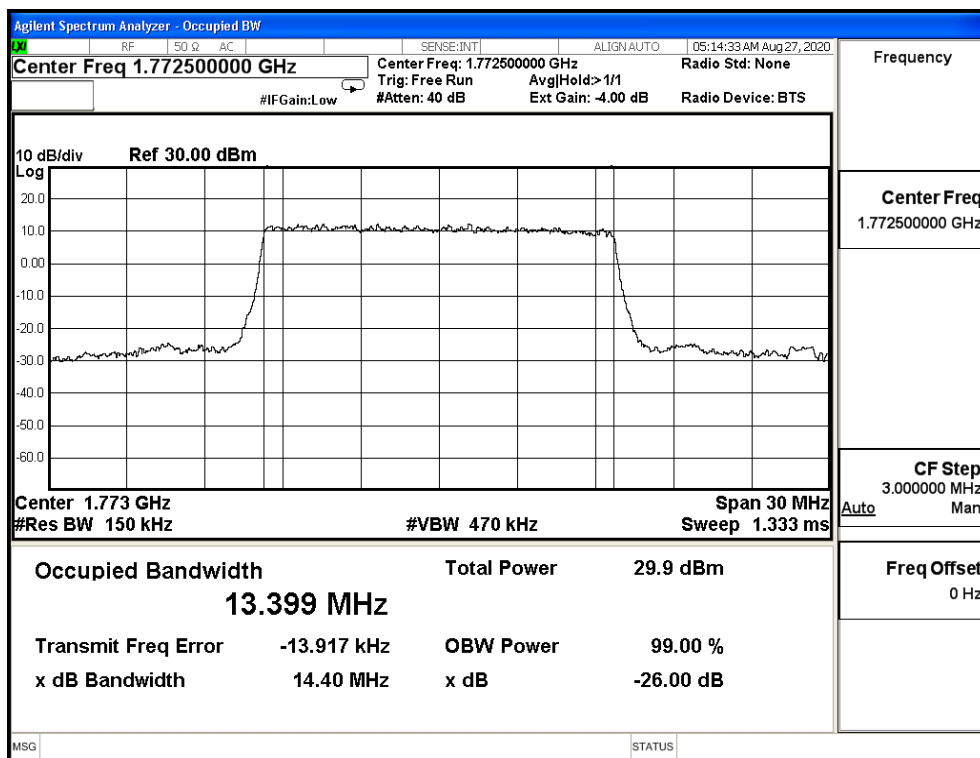
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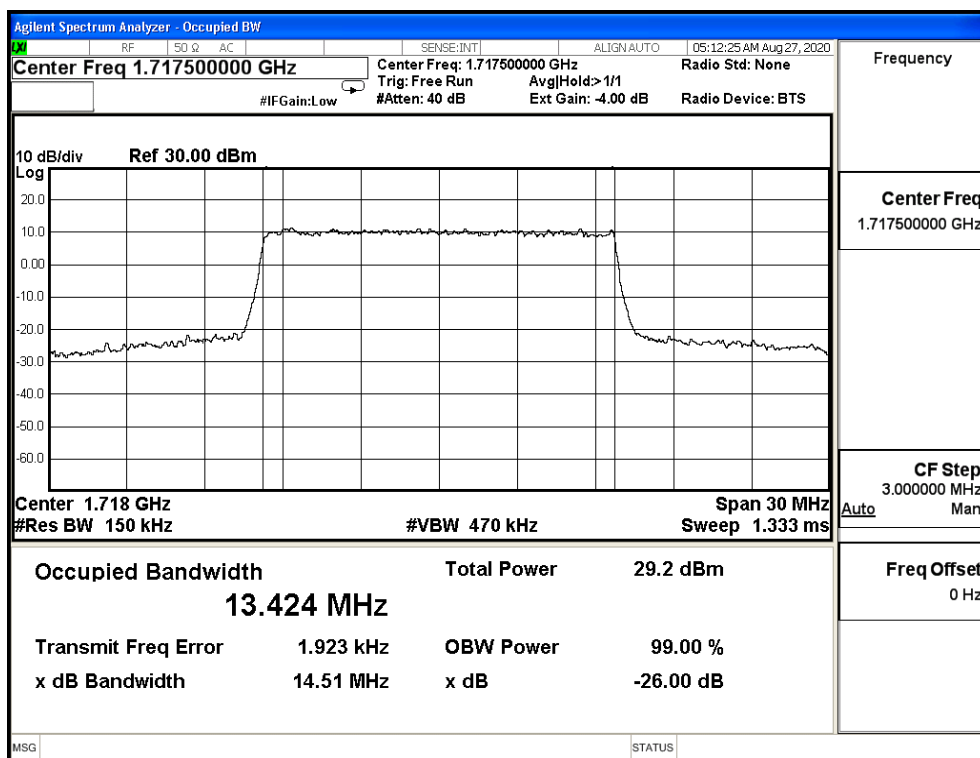
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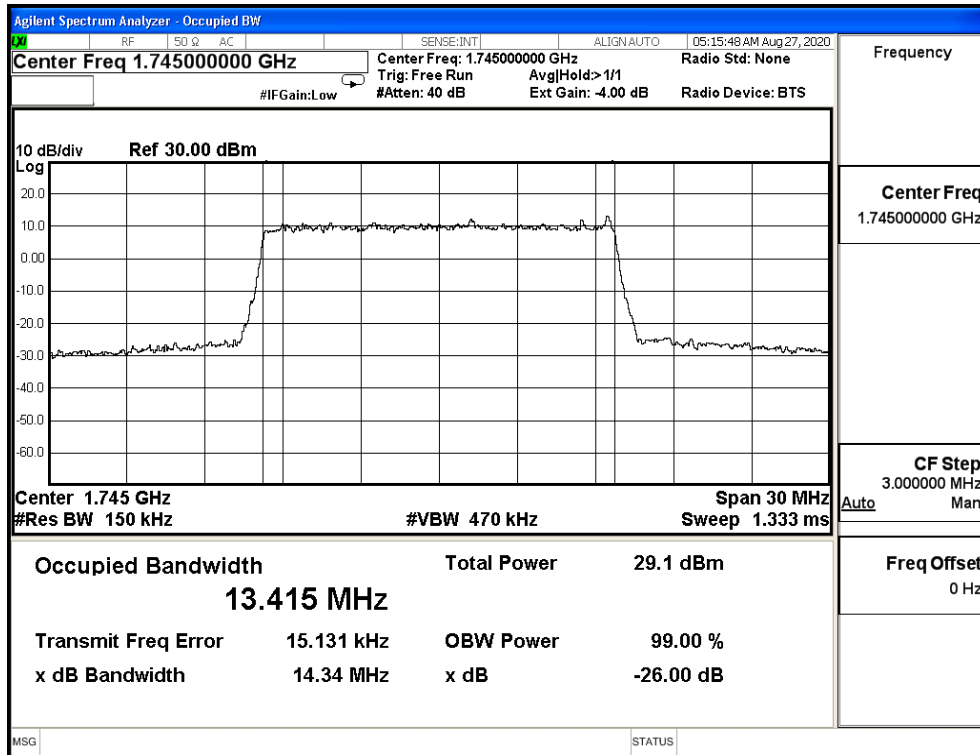
QPSK_CH132597_15M



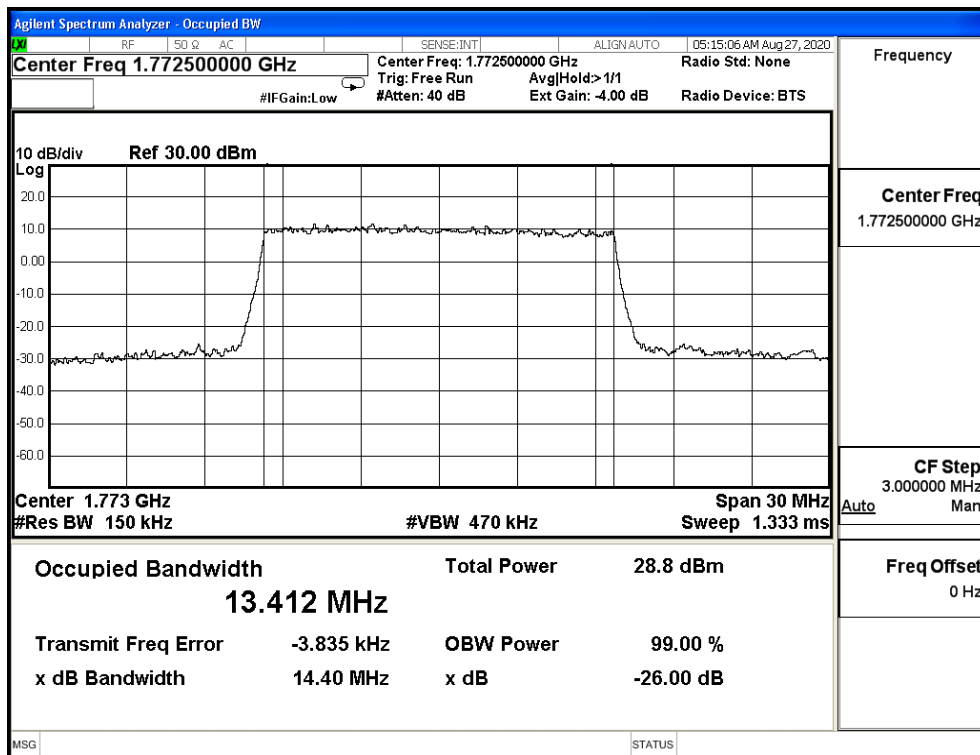
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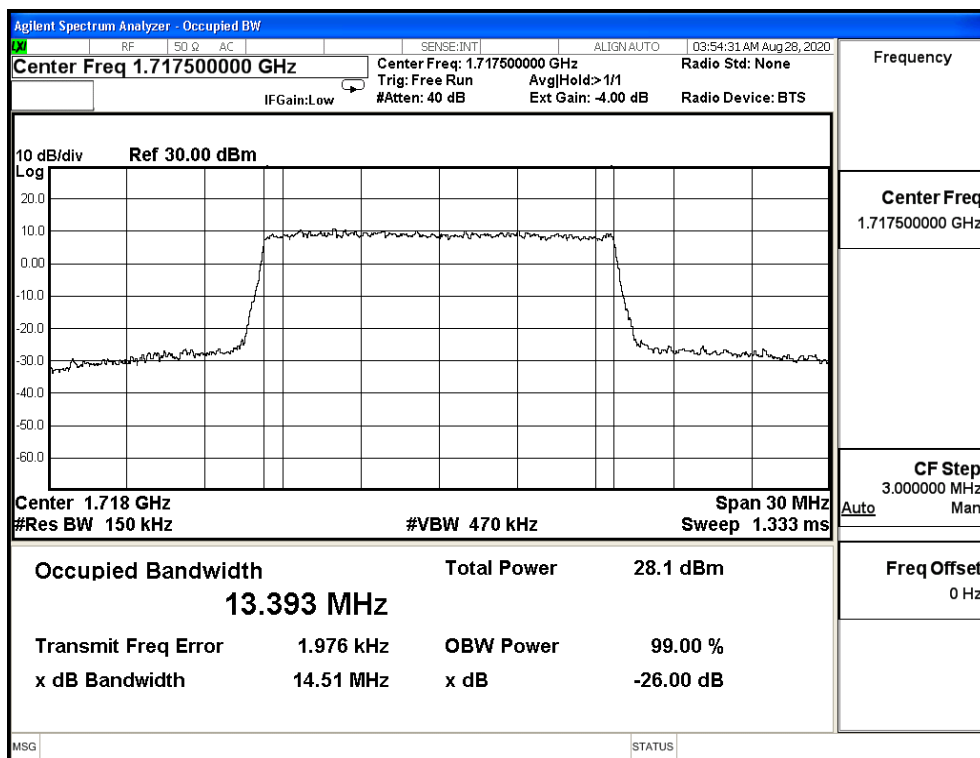
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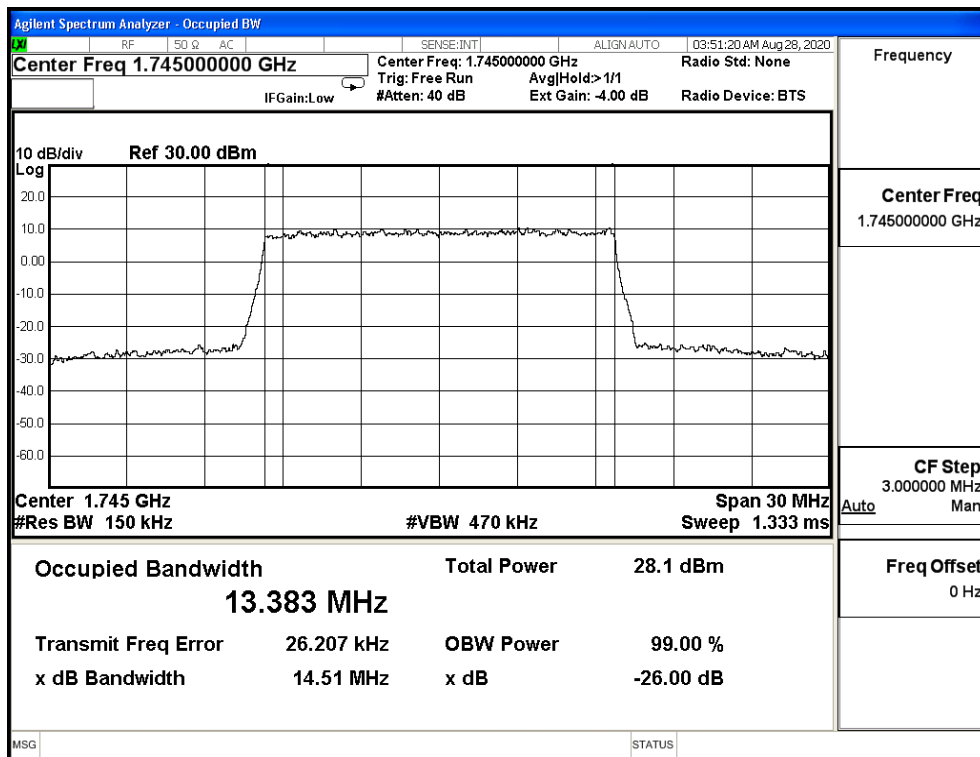
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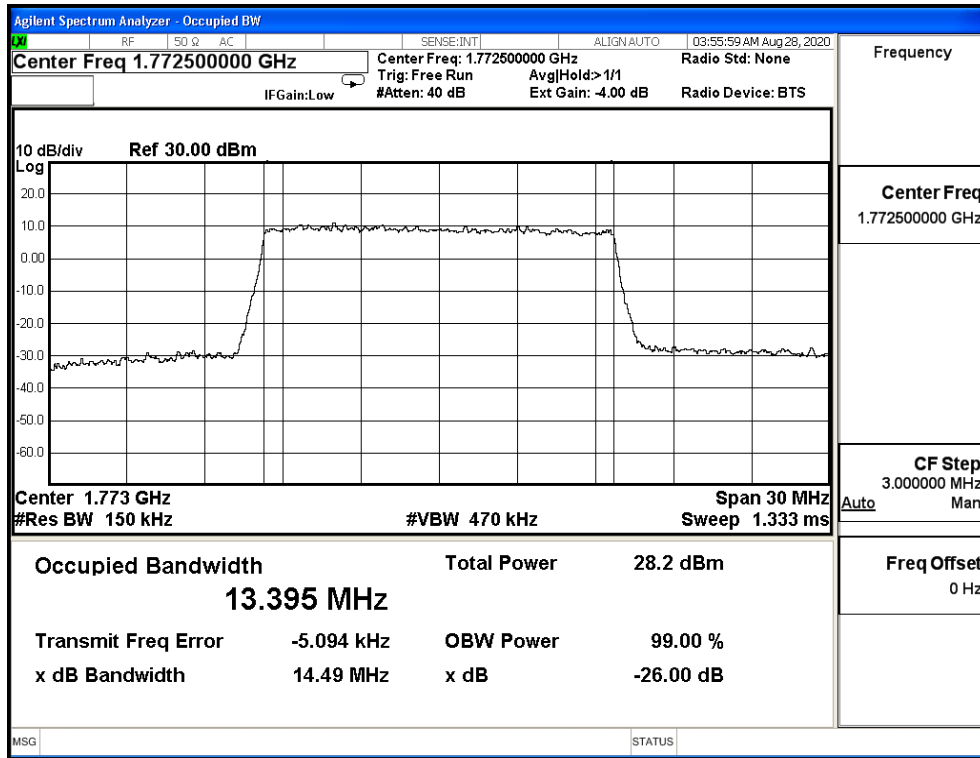
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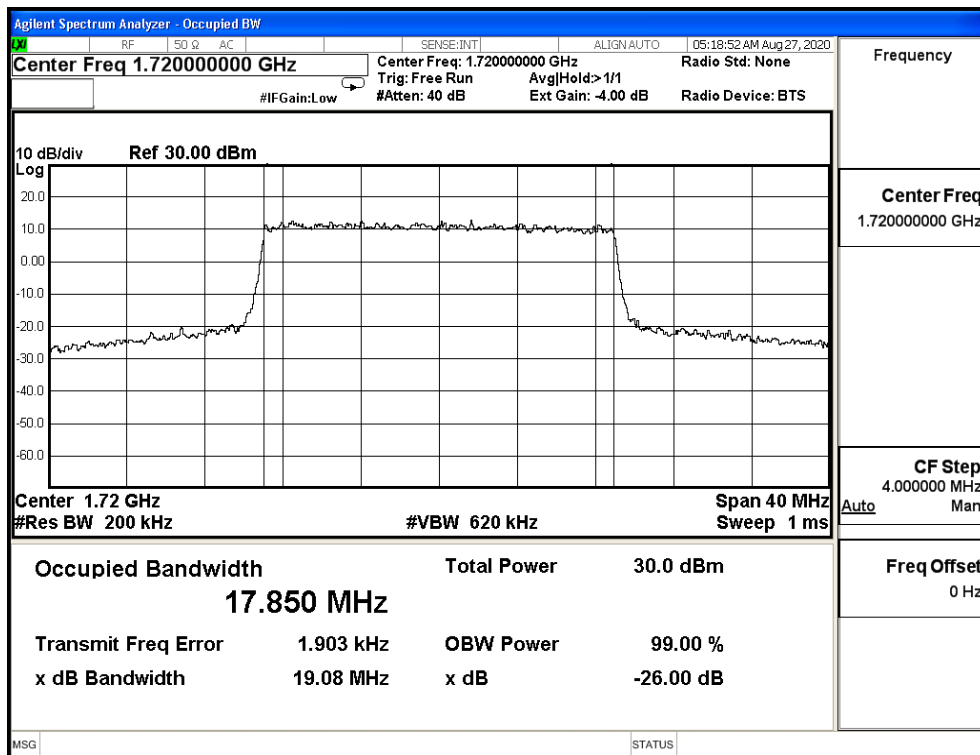
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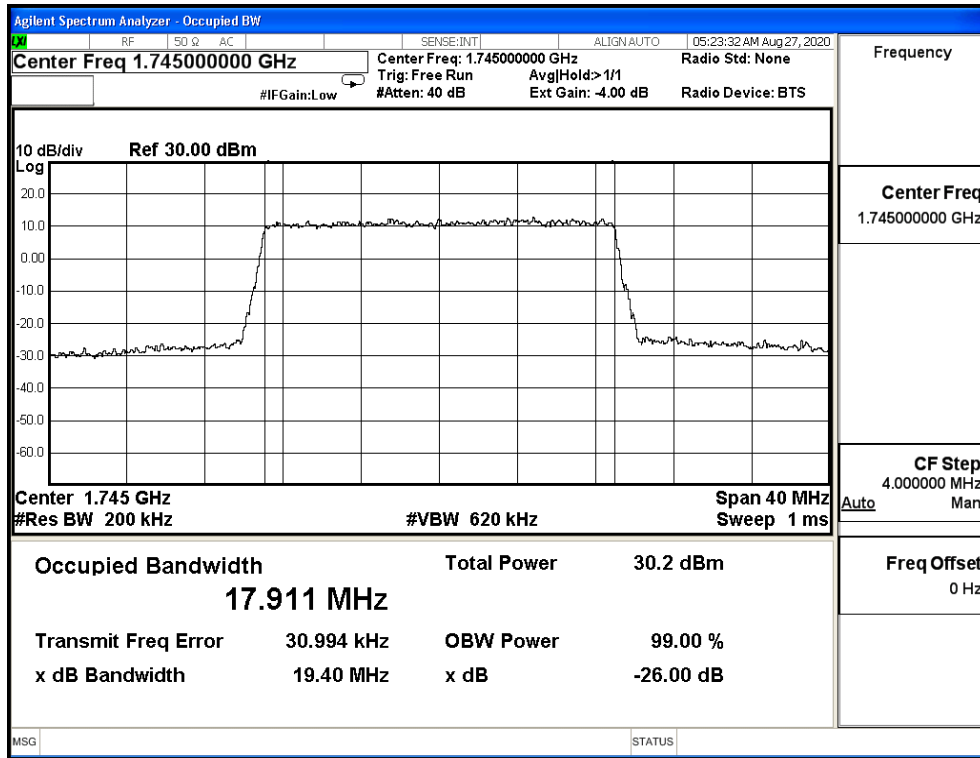
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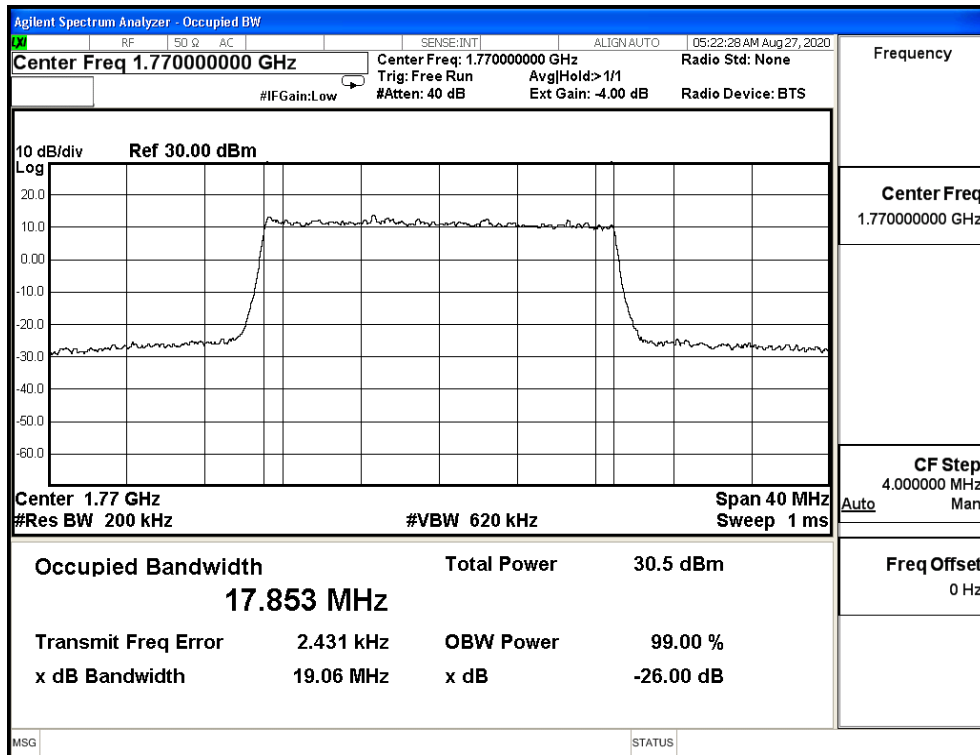
QPSK_CH132072_20M



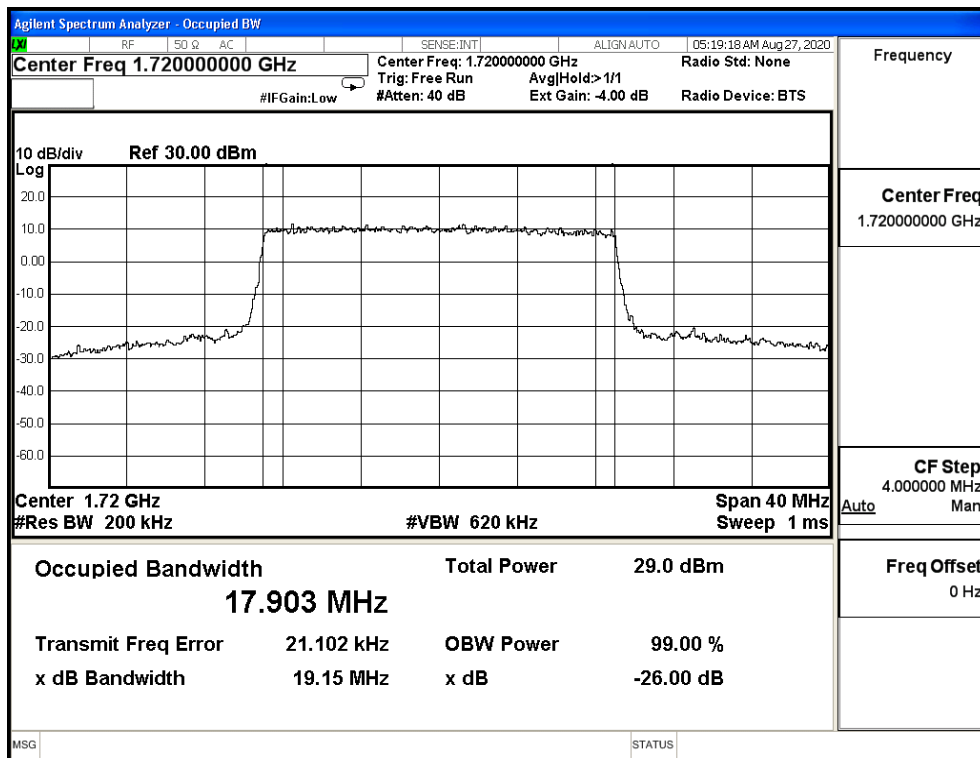
QPSK_CH132322_20M



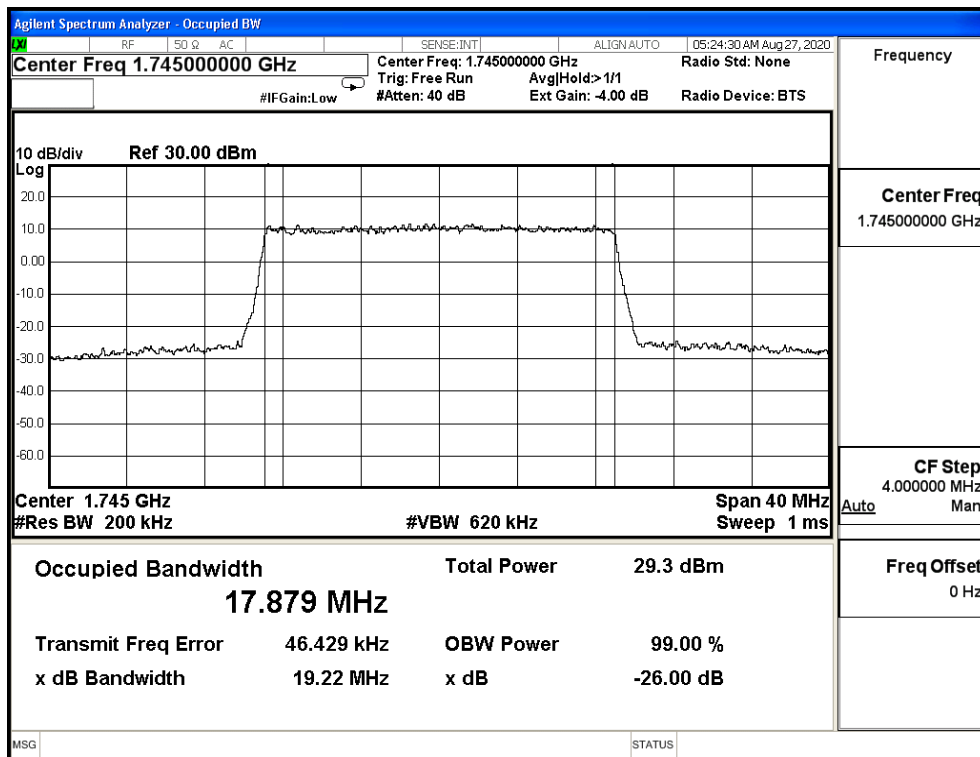
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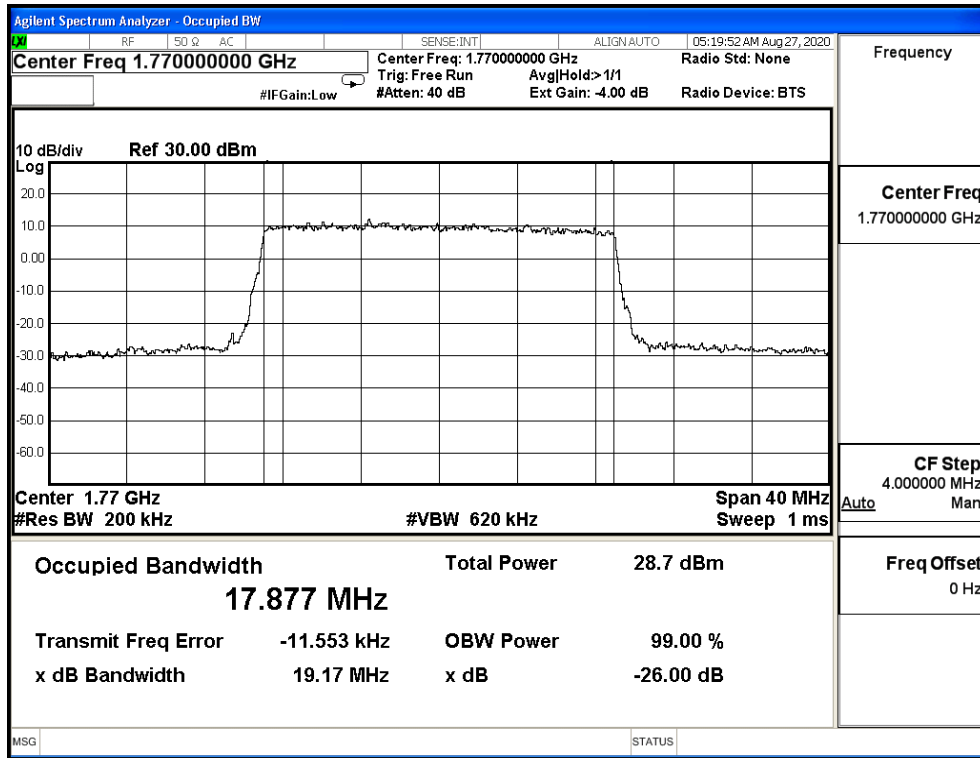
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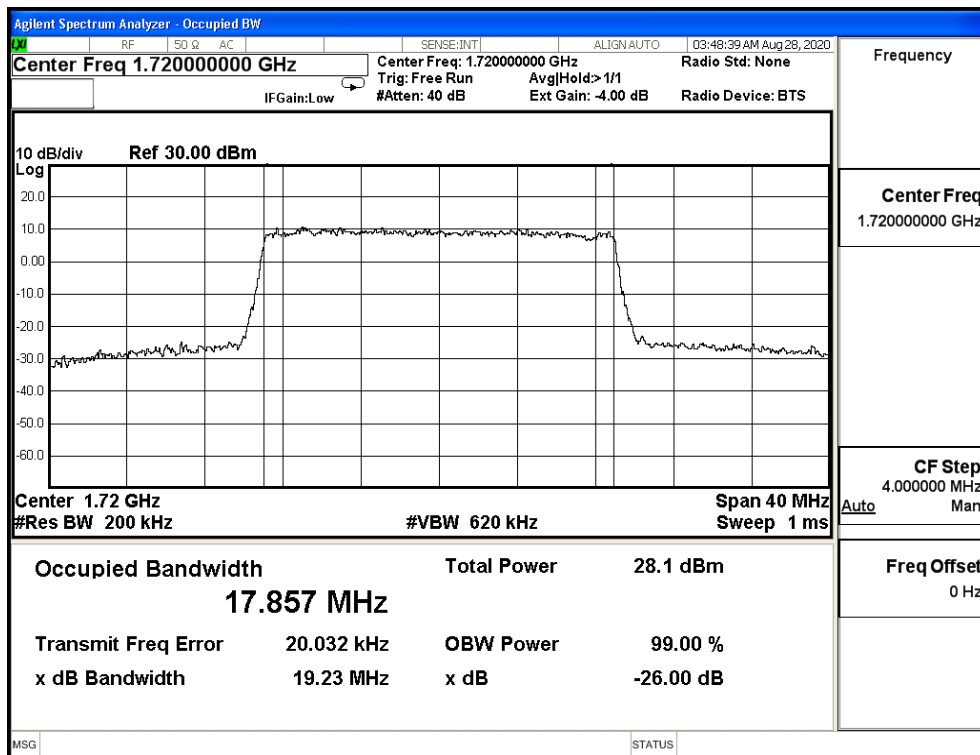
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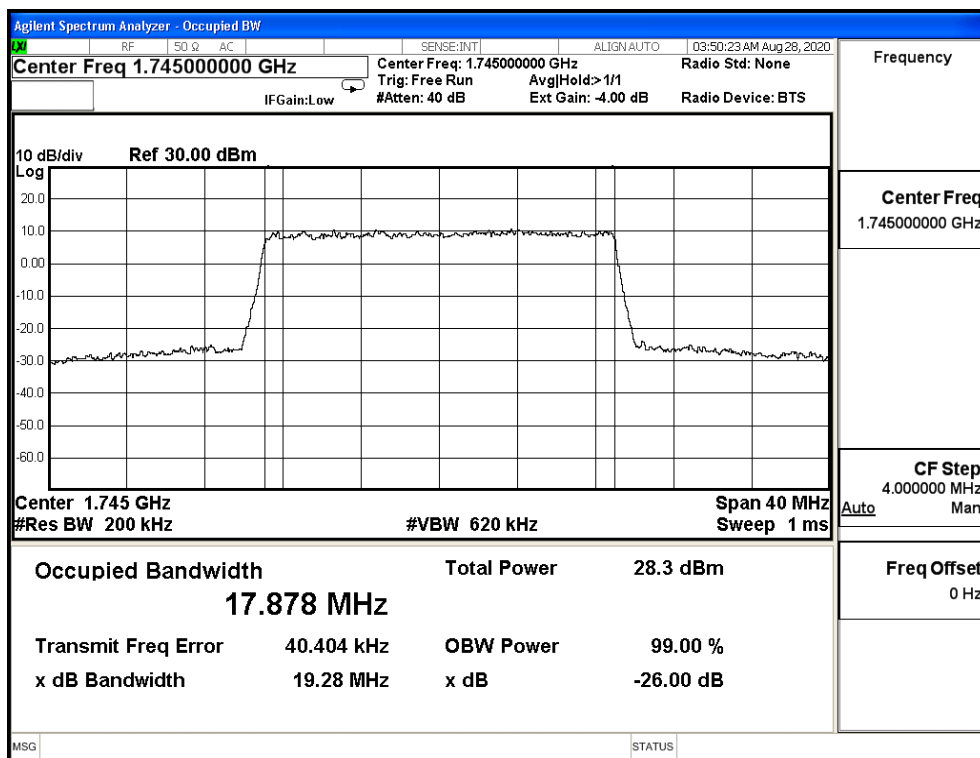
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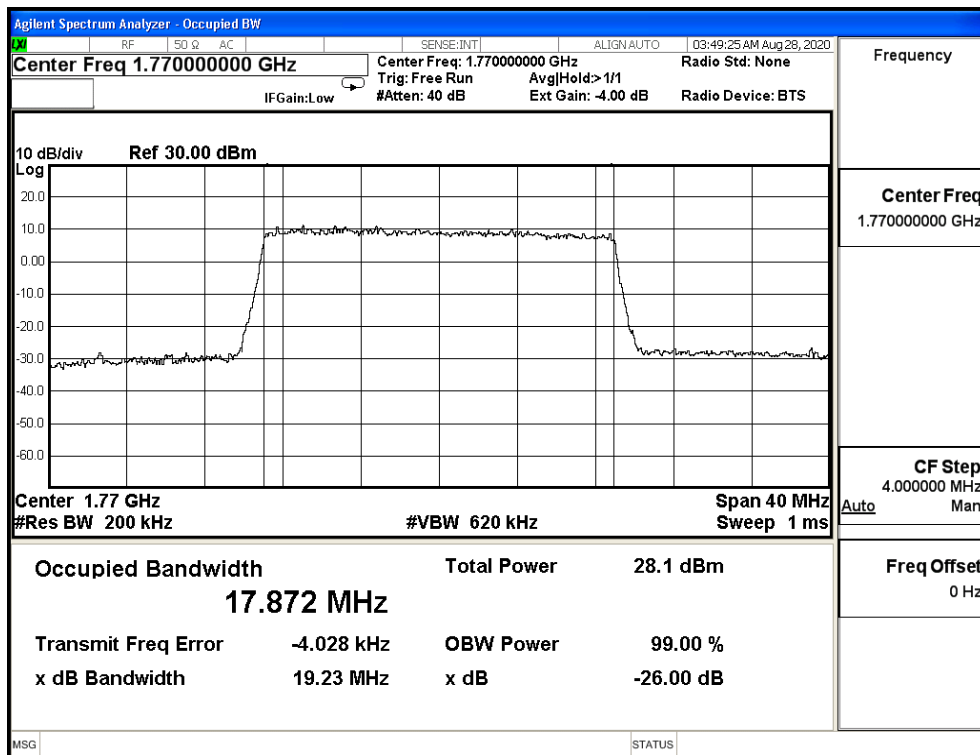
64QAM_CH132072_20M



64QAM_CH132322_20M



64QAM_CH132572_20M

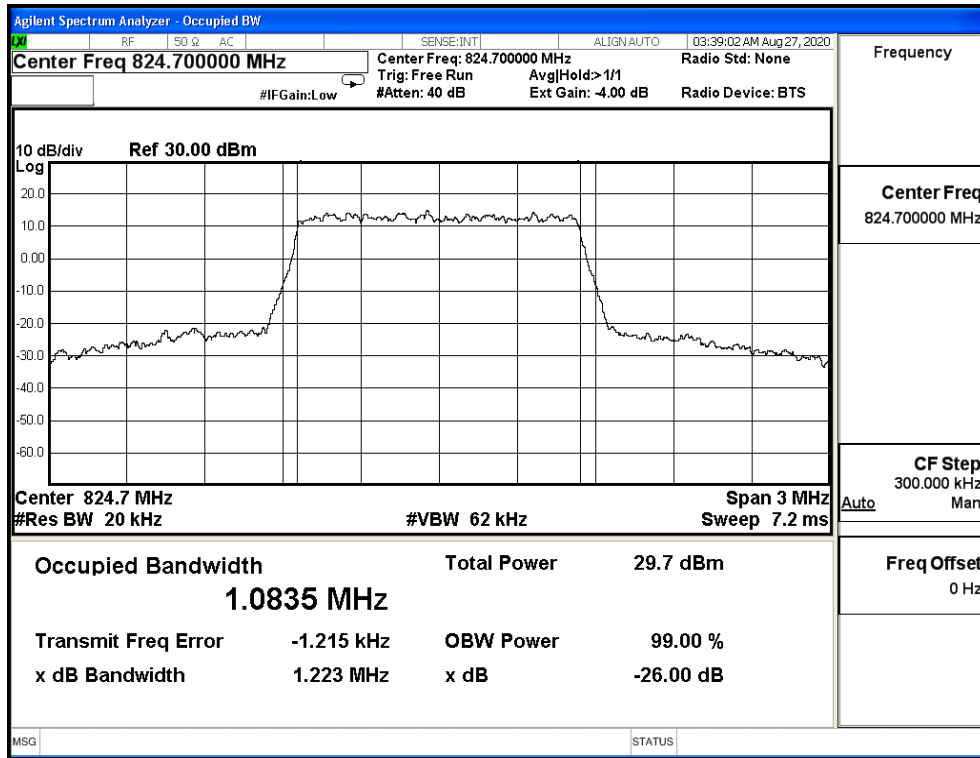


| | | | |
|-----------------|---------------------------------|----------------|--------|
| Product | Module | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 3: LTE Band 5/26 (Part 22) | | |
| Date of Test | 2020/09/02 | Test Site | SR12-H |
| Temperature(°C) | 24 | Humidity (%RH) | 60 |

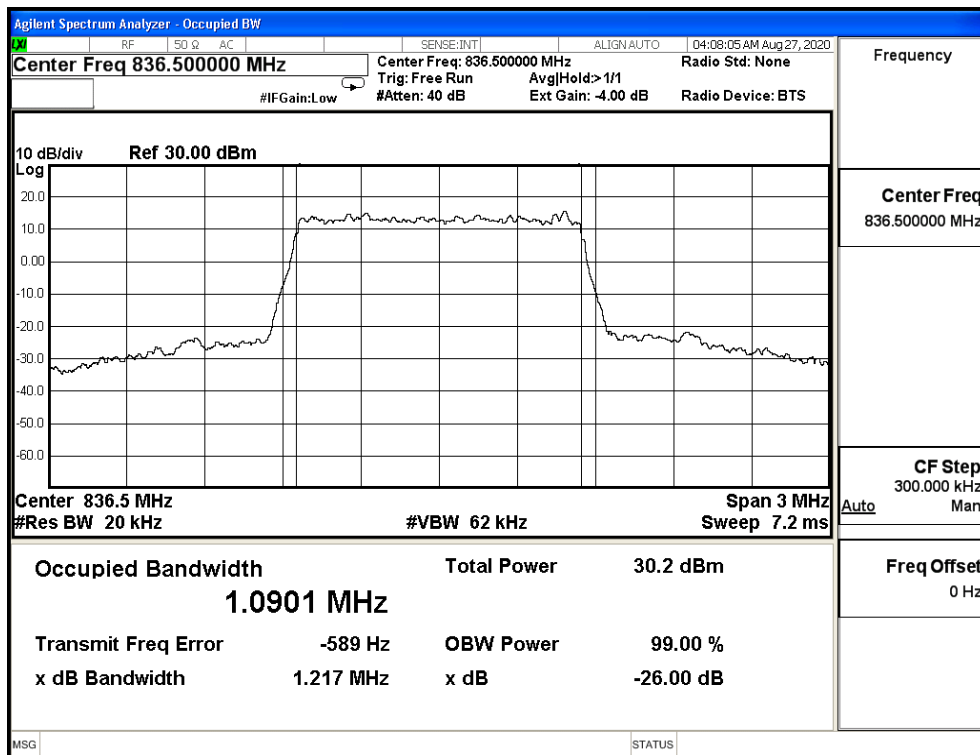
| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
|-----------------|------------|-----------------|---------------------|--------|-------------|
| | | | 26dB BW | 99% BW | |
| 1.4M | QPSK | 824.7 | 1.223 | 1.084 | N/A |
| | | 836.5 | 1.217 | 1.090 | N/A |
| | | 848.3 | 1.233 | 1.084 | N/A |
| | 16-QAM | 824.7 | 1.237 | 1.087 | N/A |
| | | 836.5 | 1.228 | 1.086 | N/A |
| | | 848.3 | 1.215 | 1.084 | N/A |
| | 64-QAM | 824.7 | 1.210 | 1.080 | N/A |
| | | 836.5 | 1.214 | 1.080 | N/A |
| | | 848.3 | 1.209 | 1.080 | N/A |
| 3M | QPSK | 825.5 | 2.955 | 2.688 | N/A |
| | | 836.5 | 2.940 | 2.685 | N/A |
| | | 847.5 | 2.931 | 2.685 | N/A |
| | 16-QAM | 825.5 | 2.961 | 2.684 | N/A |
| | | 836.5 | 2.969 | 2.685 | N/A |
| | | 847.5 | 2.943 | 2.684 | N/A |
| | 64-QAM | 825.5 | 2.924 | 2.684 | N/A |
| | | 836.5 | 2.919 | 2.683 | N/A |
| | | 847.5 | 2.929 | 2.684 | N/A |
| 5M | QPSK | 826.5 | 4.901 | 4.486 | N/A |
| | | 836.5 | 4.891 | 4.468 | N/A |
| | | 846.5 | 4.903 | 4.485 | N/A |
| | 16-QAM | 826.5 | 4.835 | 4.473 | N/A |
| | | 836.5 | 4.892 | 4.475 | N/A |
| | | 846.5 | 4.911 | 4.489 | N/A |
| | 64-QAM | 826.5 | 4.901 | 4.481 | N/A |
| | | 836.5 | 4.897 | 4.483 | N/A |
| | | 846.5 | 4.871 | 4.485 | N/A |

| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
|-----------------|------------|-----------------|---------------------|--------|-------------|
| | | | 26dB BW | 99% BW | |
| 10M | QPSK | 829 | 9.657 | 8.953 | N/A |
| | | 836.5 | 9.711 | 8.944 | N/A |
| | | 844 | 9.678 | 8.945 | N/A |
| | 16-QAM | 829 | 9.676 | 8.963 | N/A |
| | | 836.5 | 9.600 | 8.937 | N/A |
| | | 844 | 9.650 | 8.950 | N/A |
| | 64-QAM | 829 | 9.640 | 8.950 | N/A |
| | | 836.5 | 9.579 | 8.932 | N/A |
| | | 844 | 9.628 | 8.941 | N/A |
| 15M | QPSK | 831.5 | 14.590 | 13.452 | N/A |
| | | 836.5 | 14.510 | 13.393 | N/A |
| | | 841.5 | 14.370 | 13.384 | N/A |
| | 16-QAM | 831.5 | 14.510 | 13.439 | N/A |
| | | 836.5 | 14.370 | 13.390 | N/A |
| | | 841.5 | 14.390 | 13.384 | N/A |
| | 64-QAM | 831.5 | 14.550 | 13.427 | N/A |
| | | 836.5 | 14.470 | 13.380 | N/A |
| | | 841.5 | 14.470 | 13.380 | N/A |

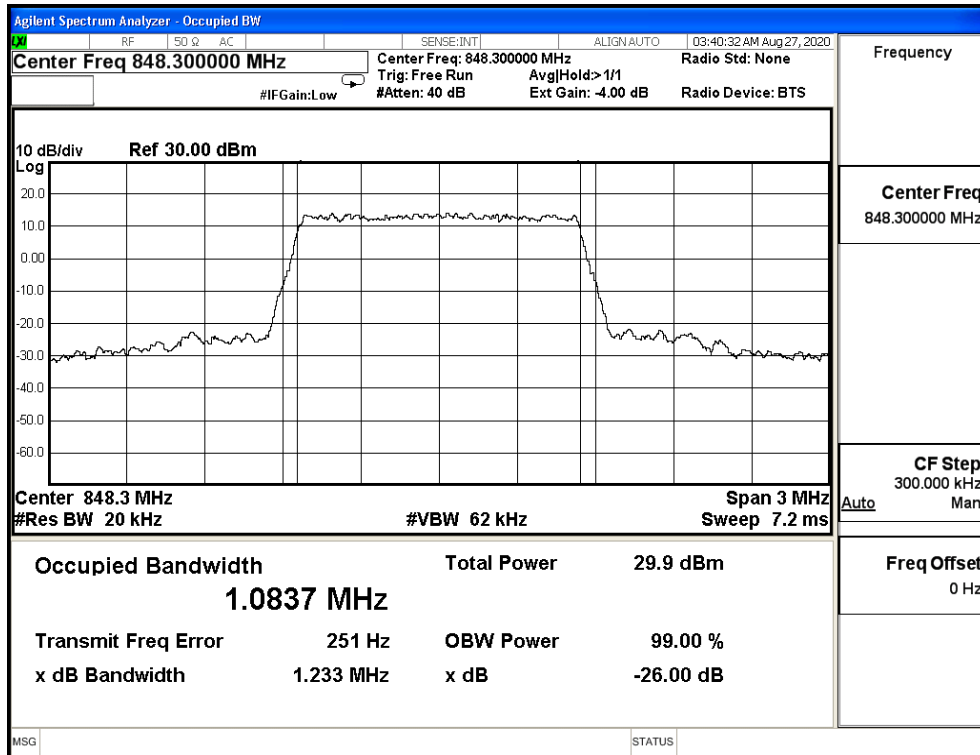
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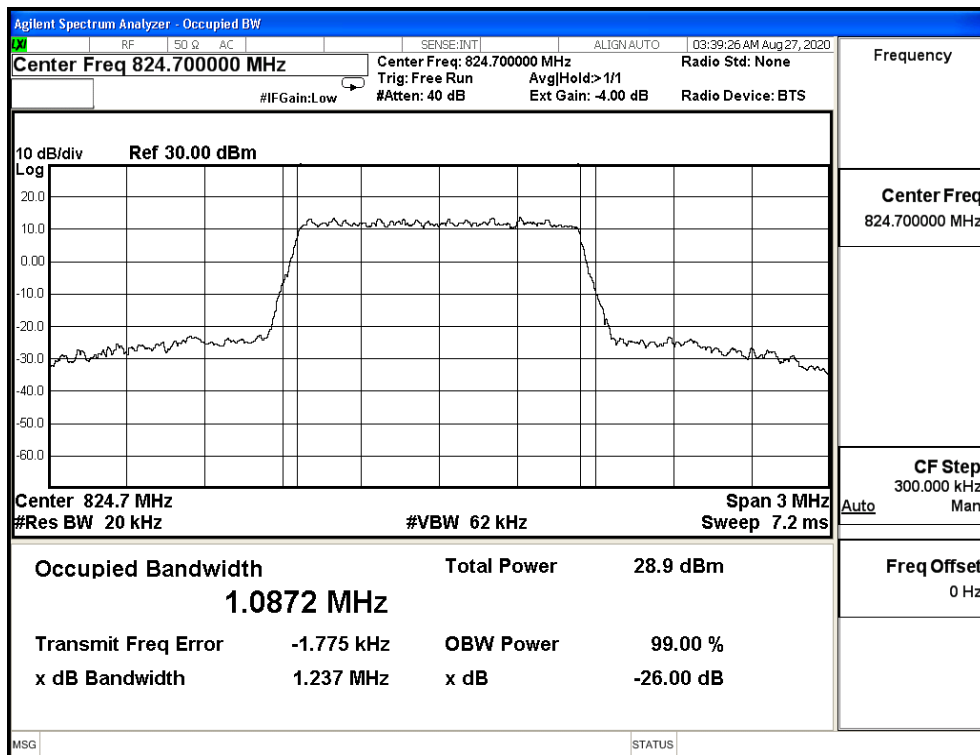
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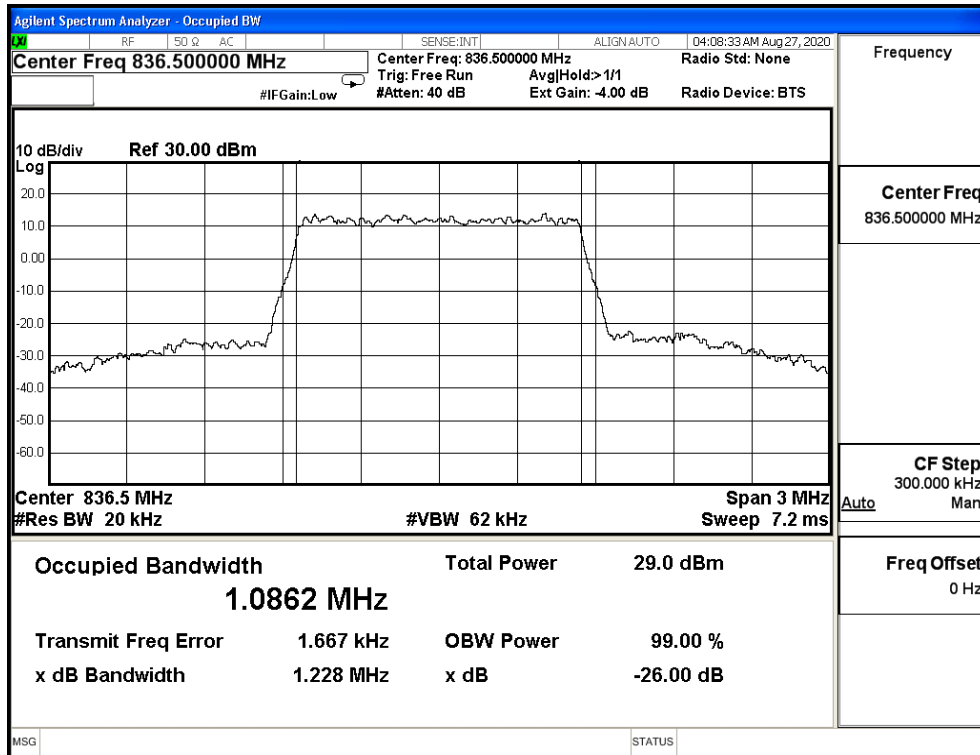
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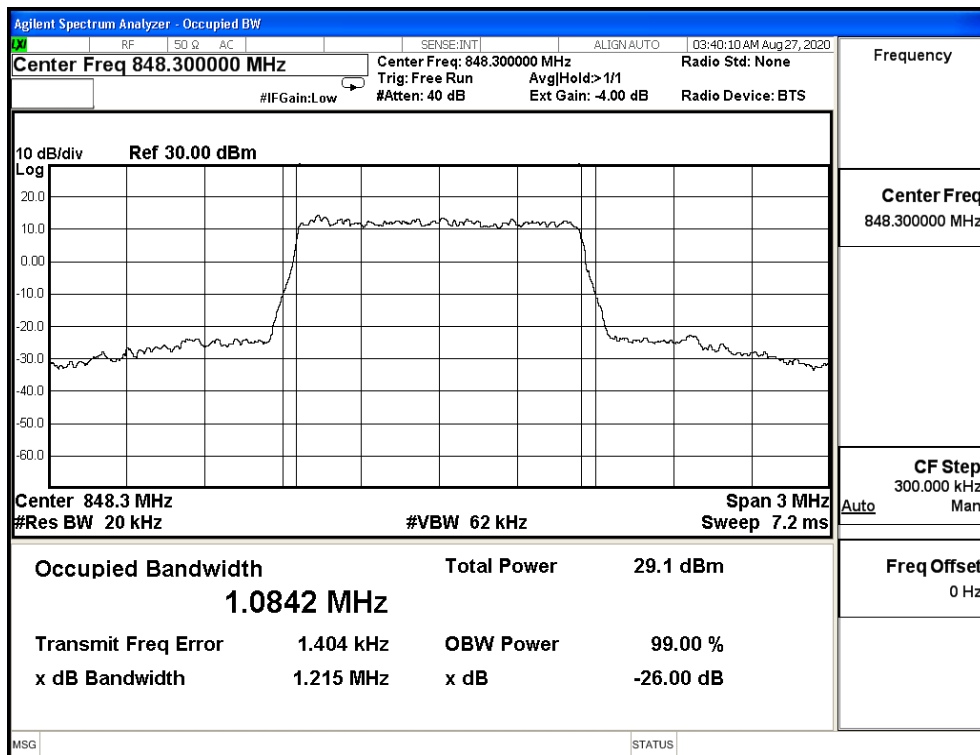
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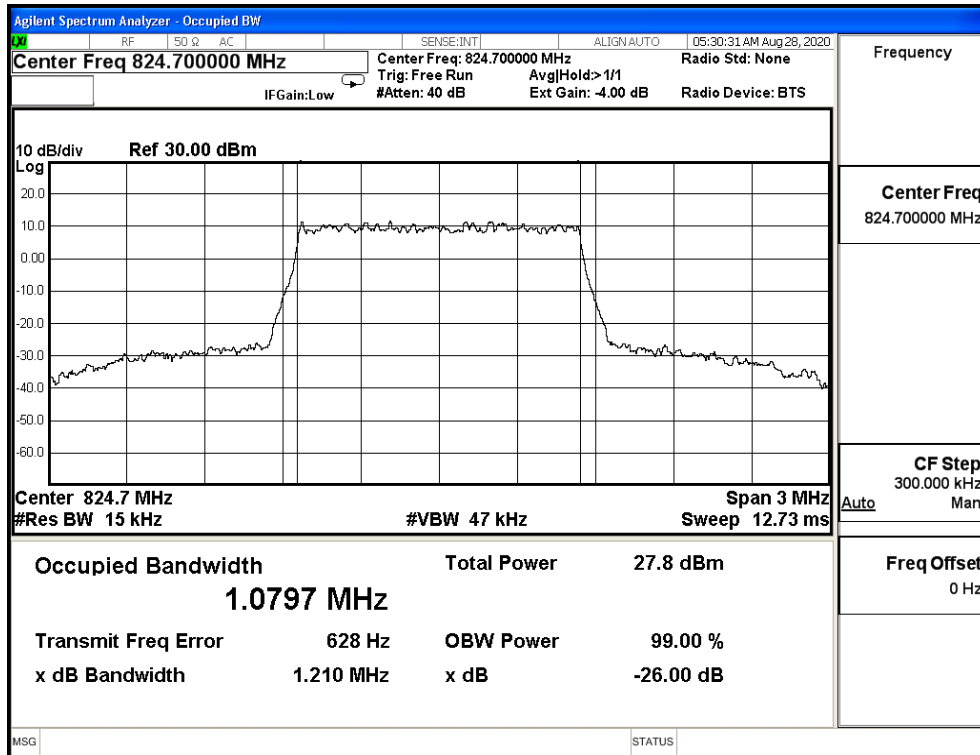
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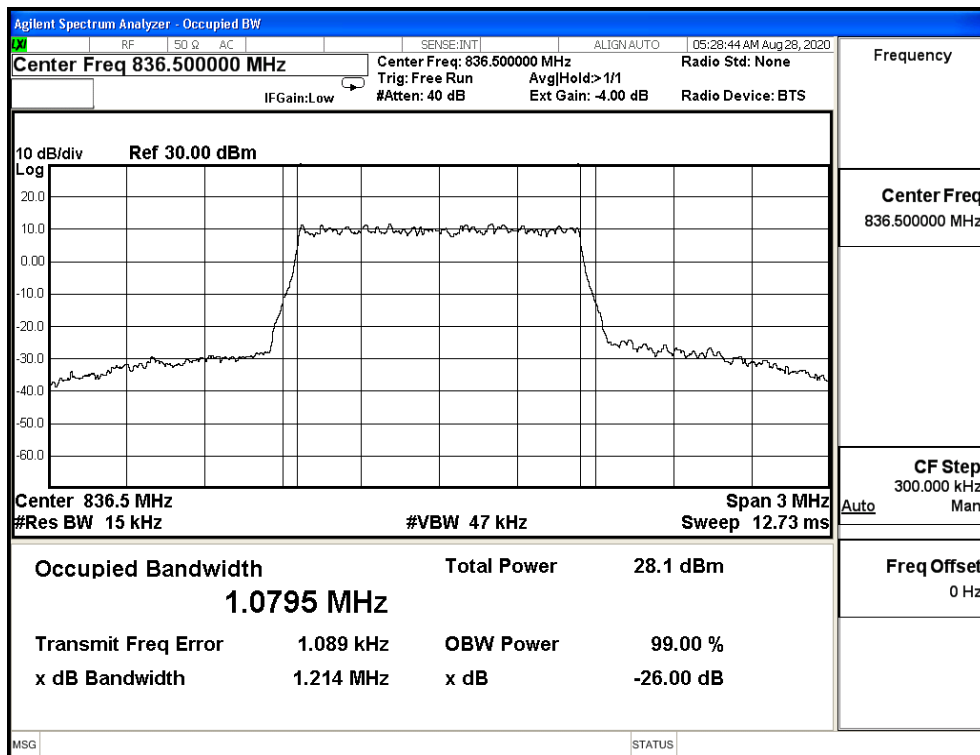
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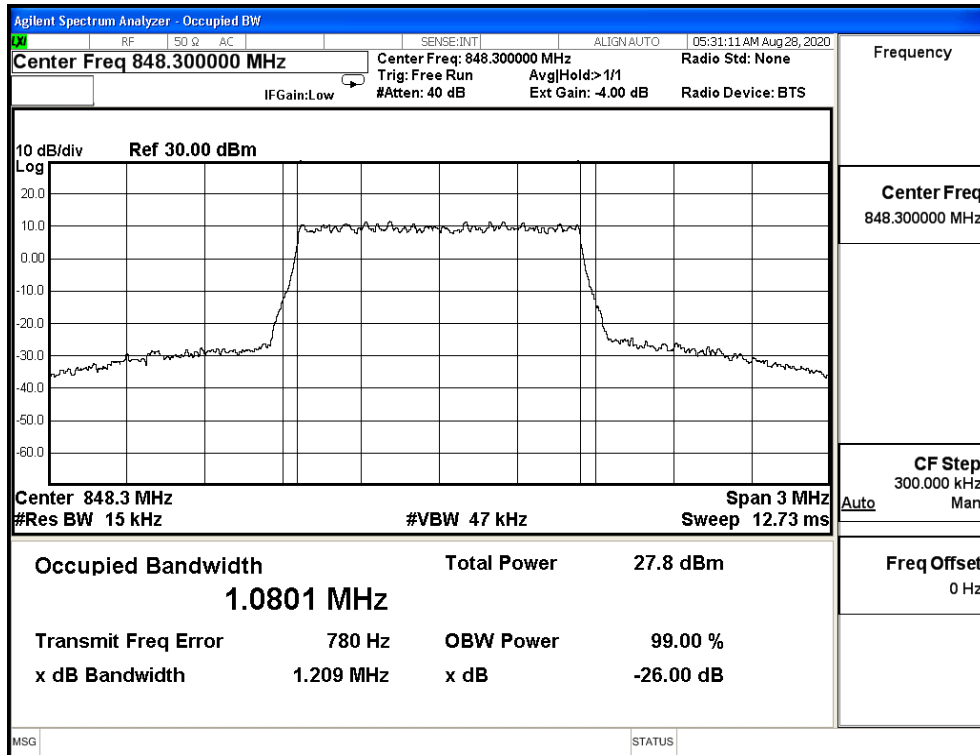
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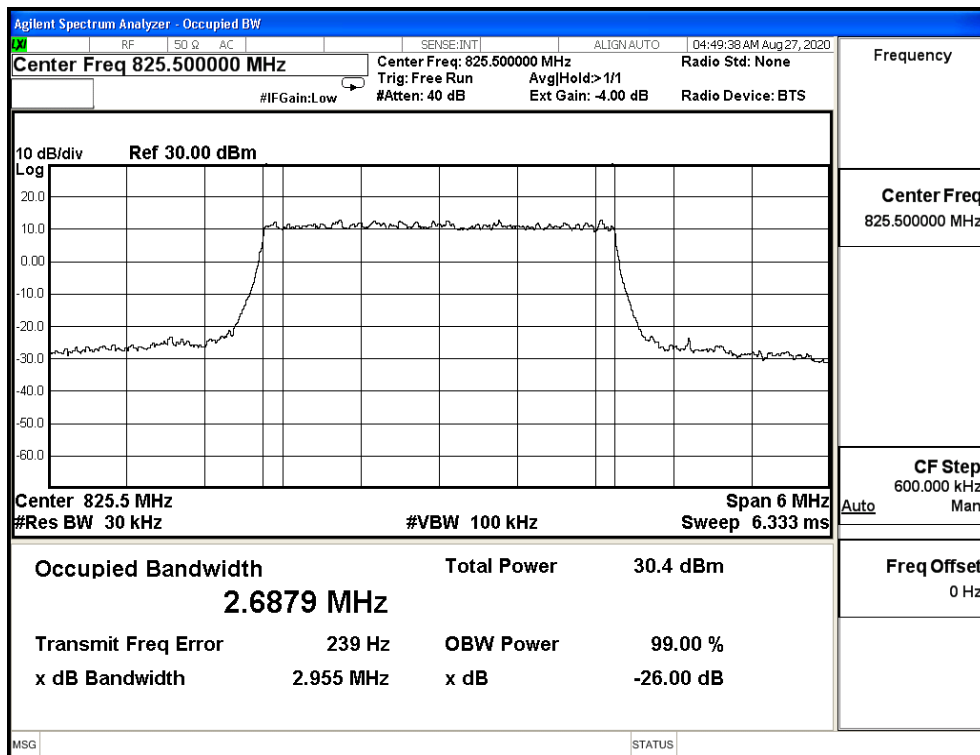
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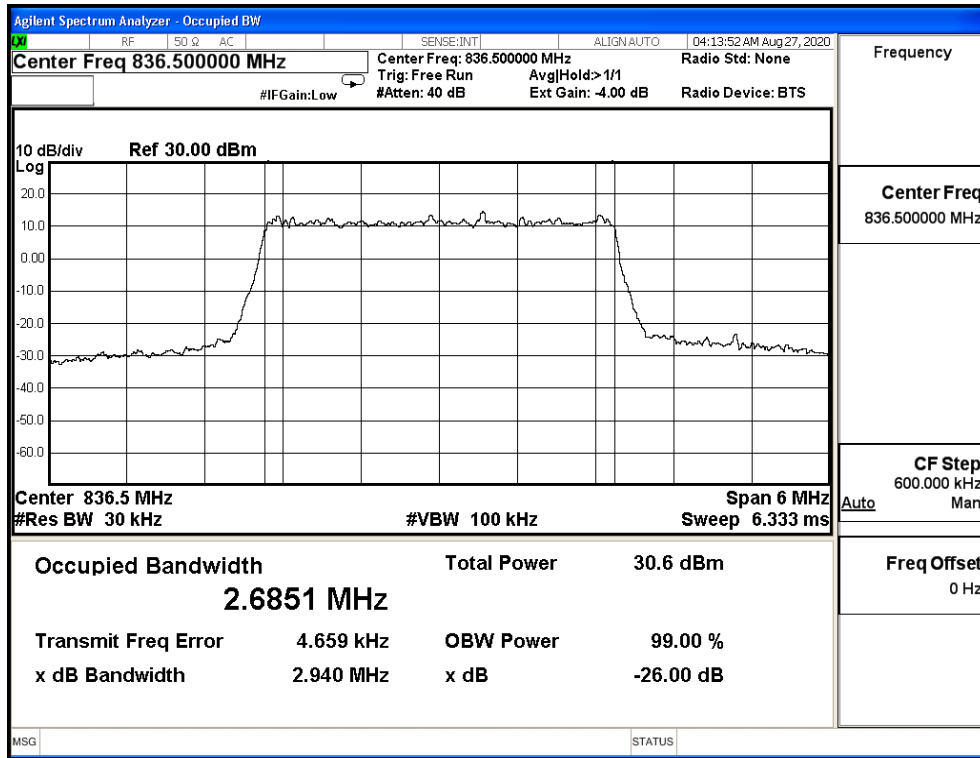
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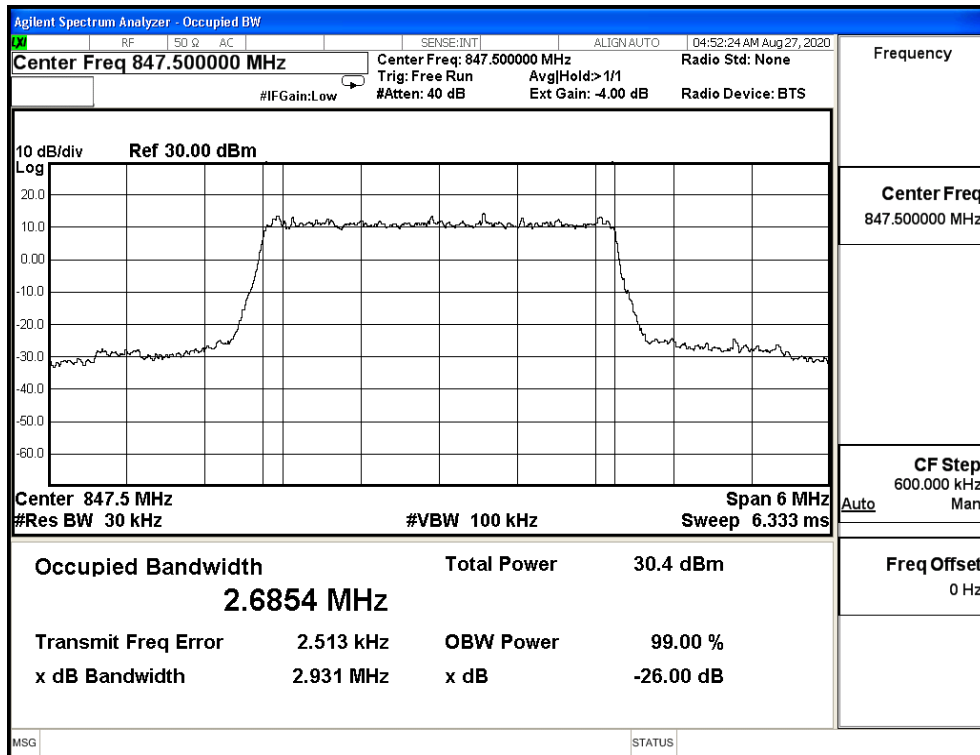
QPSK_CH26805_3M



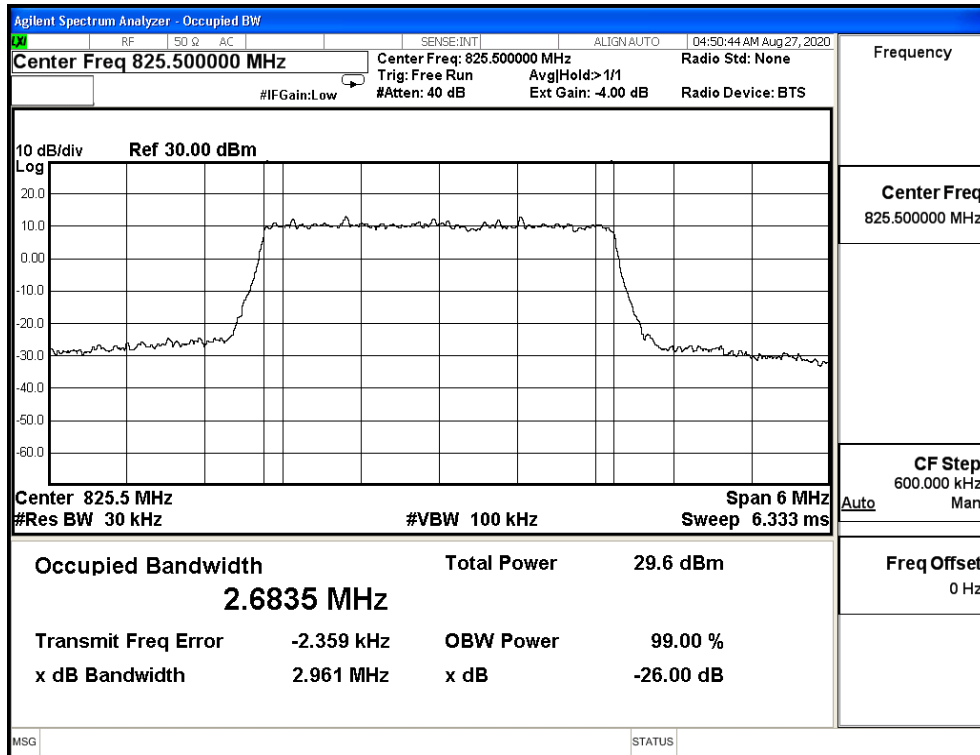
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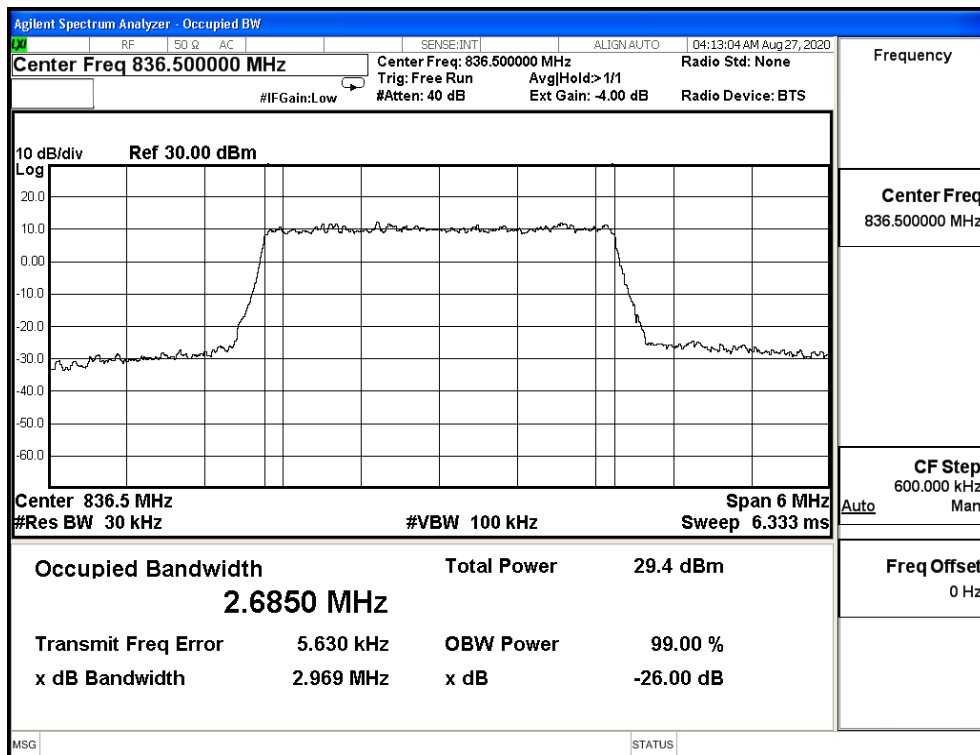
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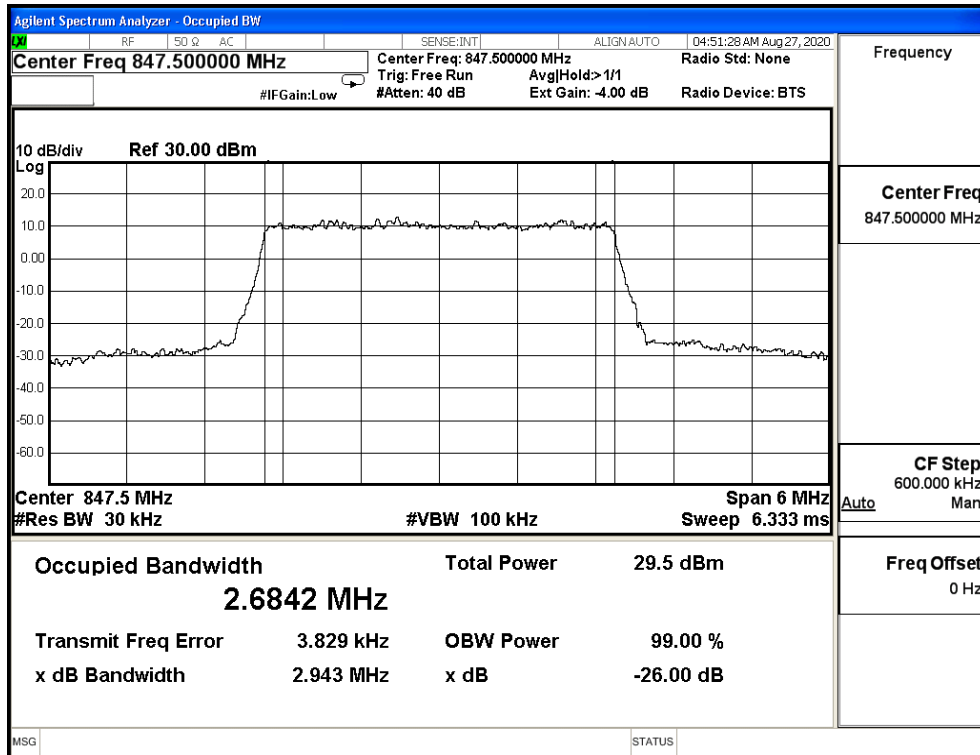
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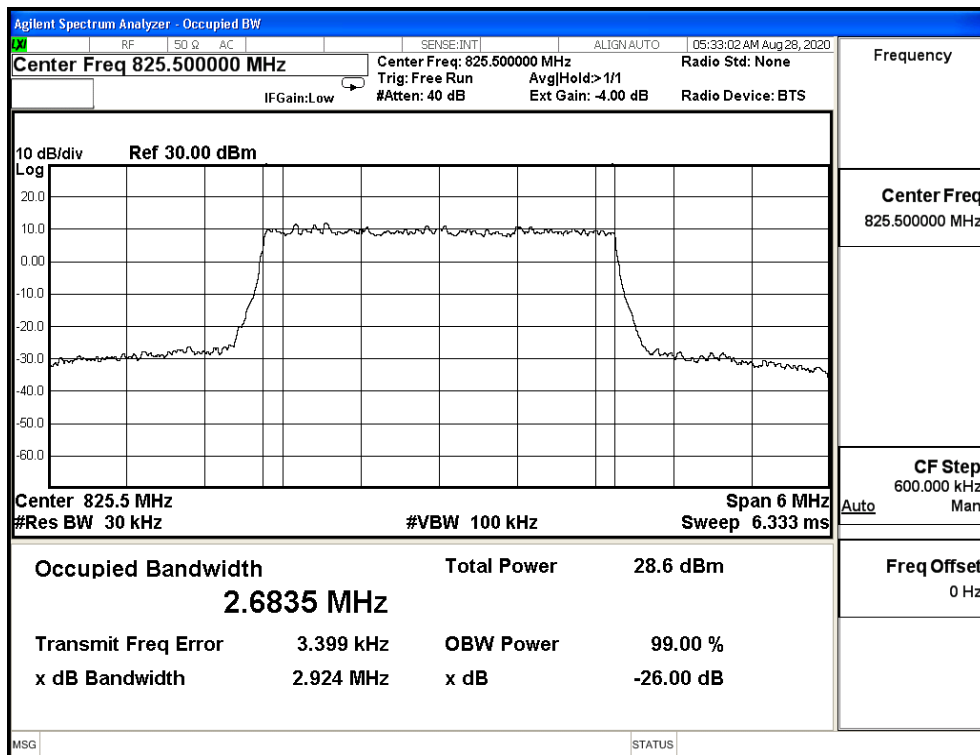
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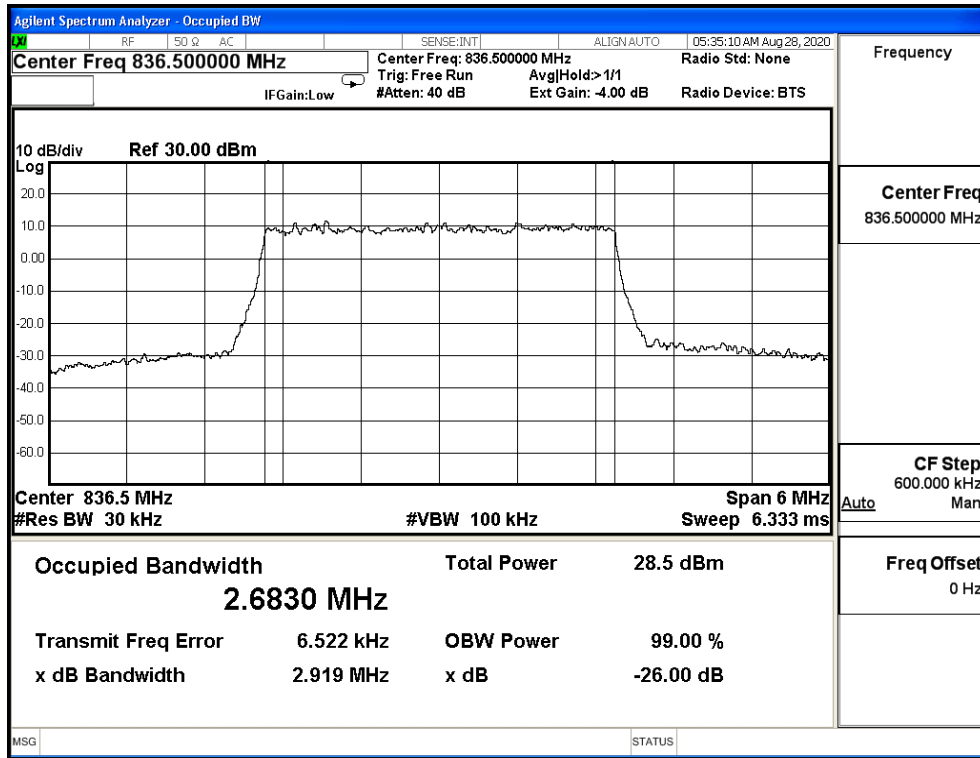
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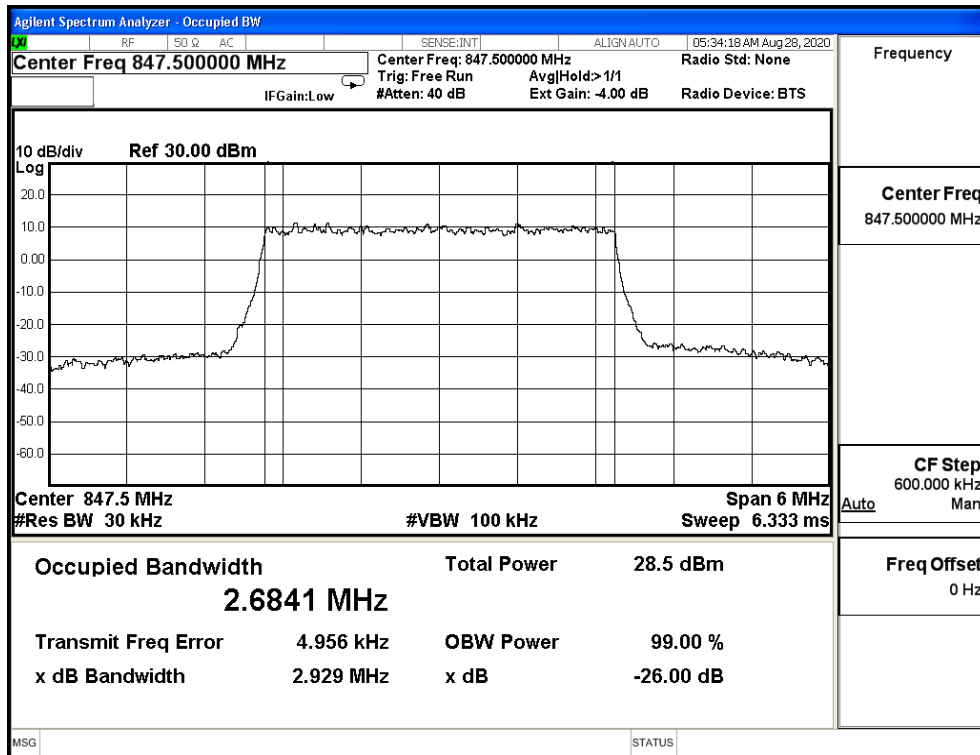
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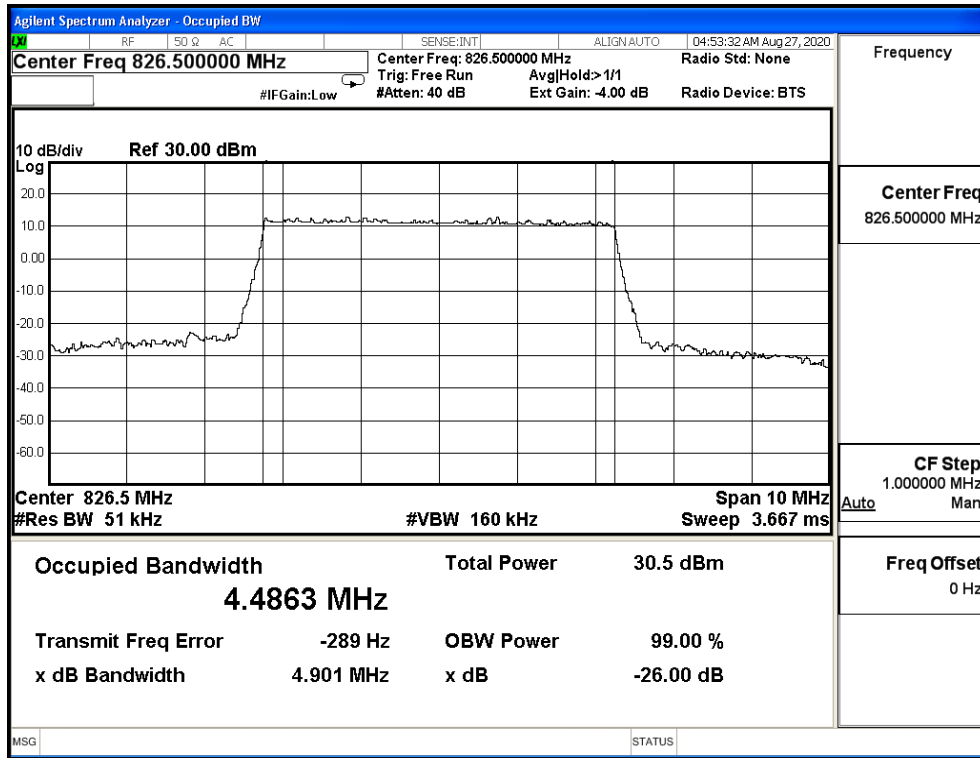
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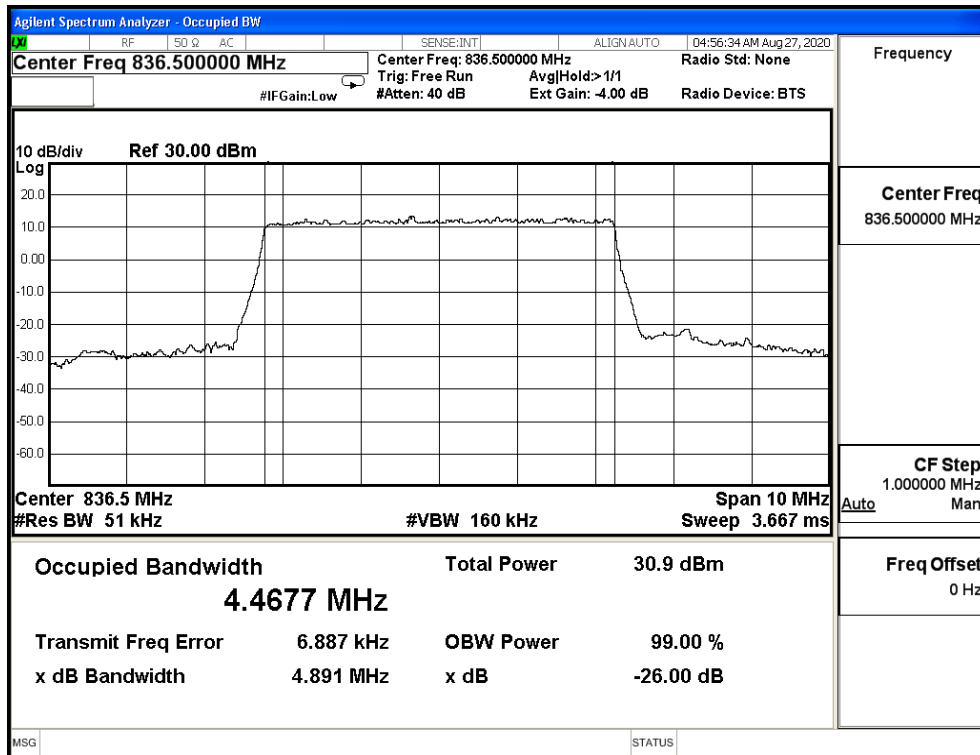
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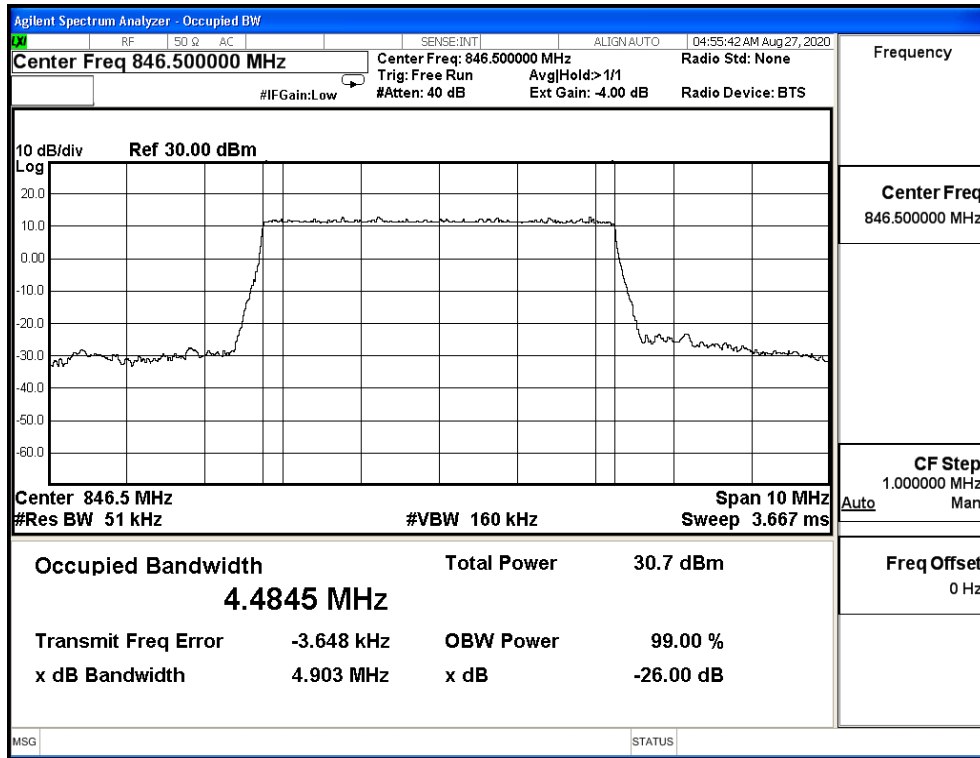
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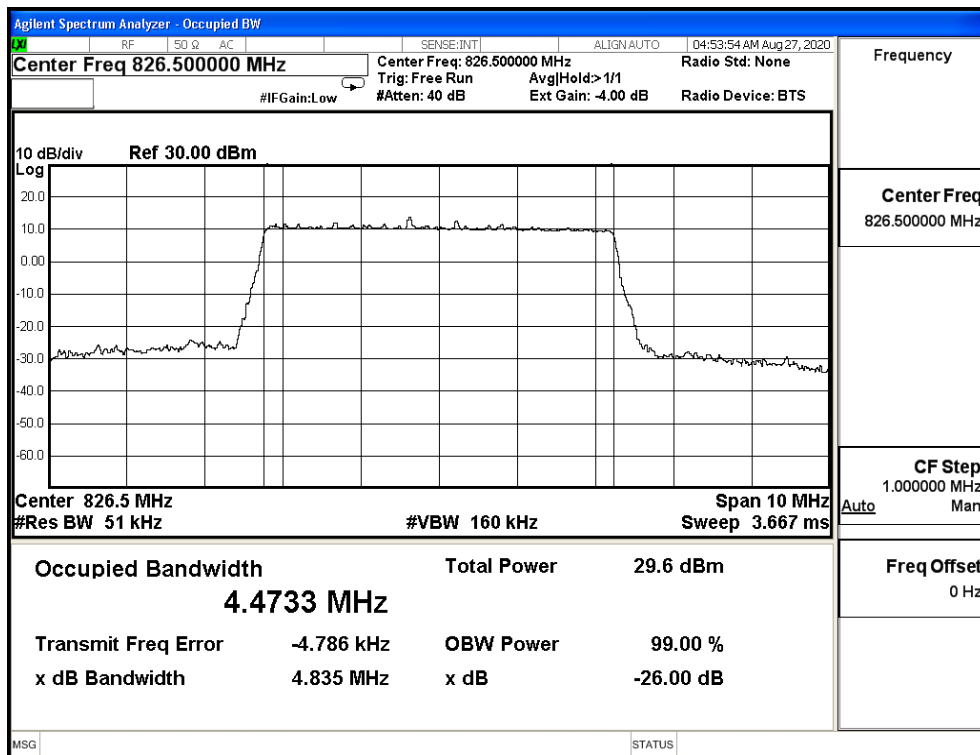
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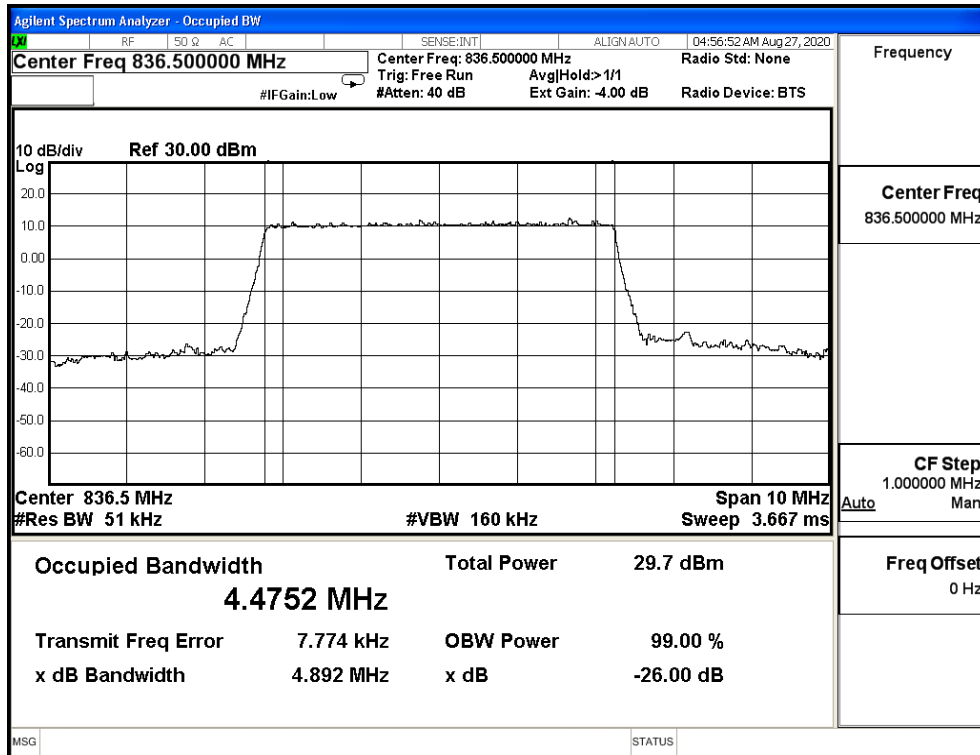
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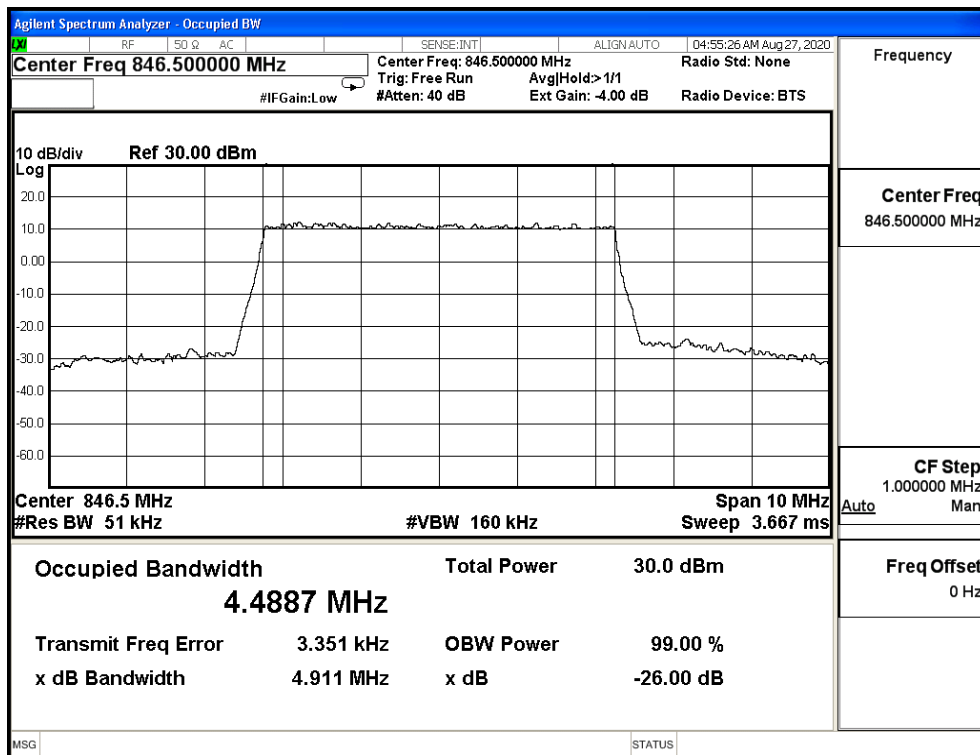
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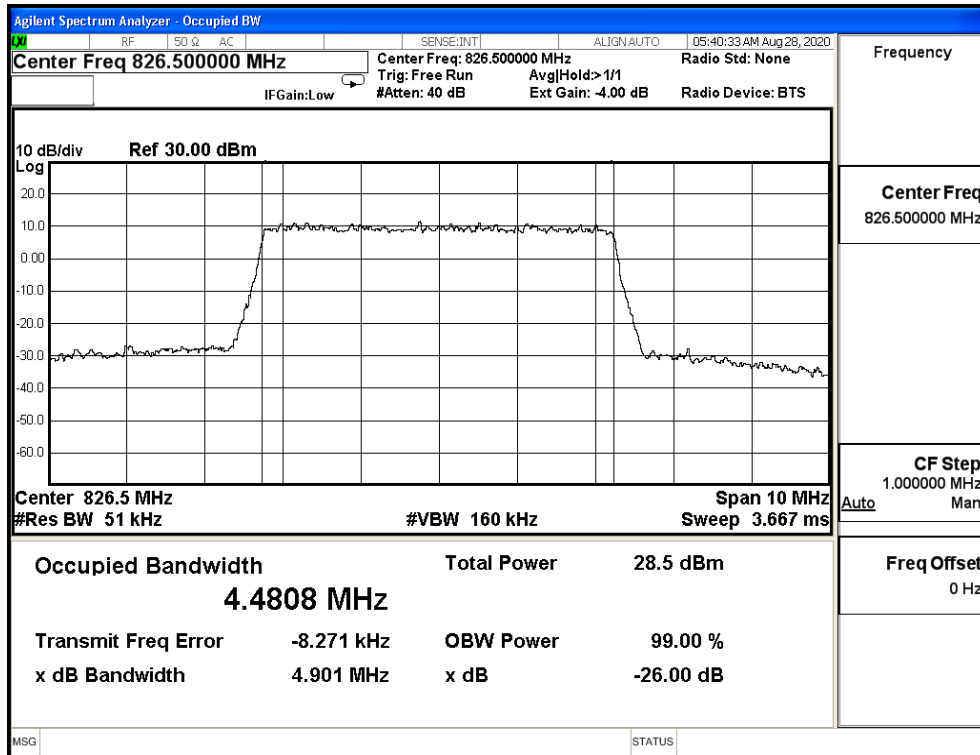
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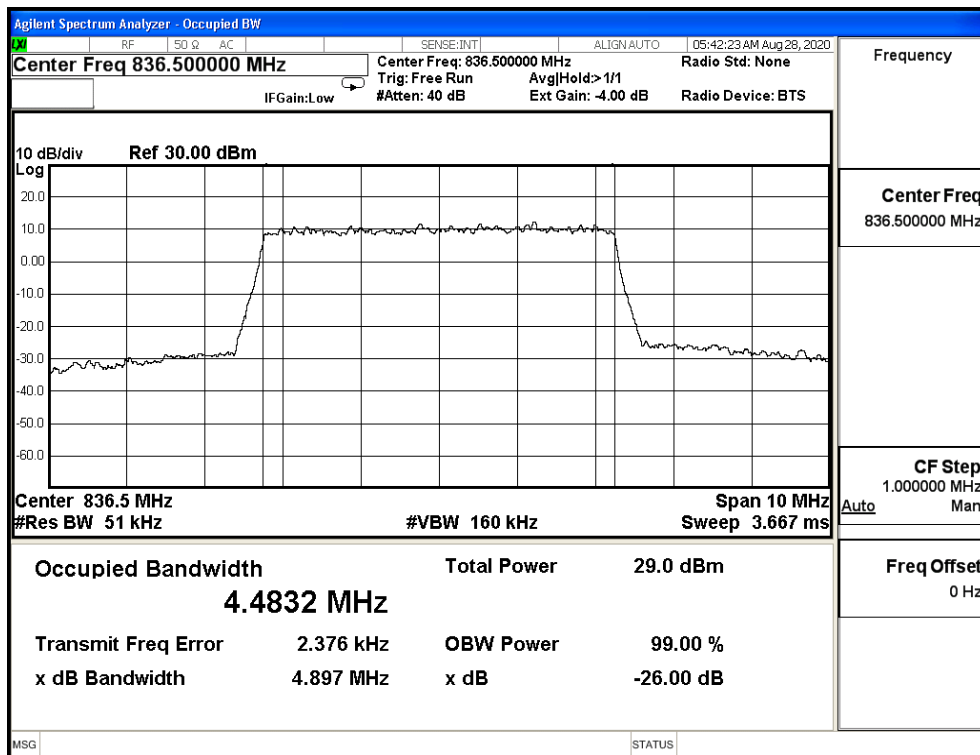
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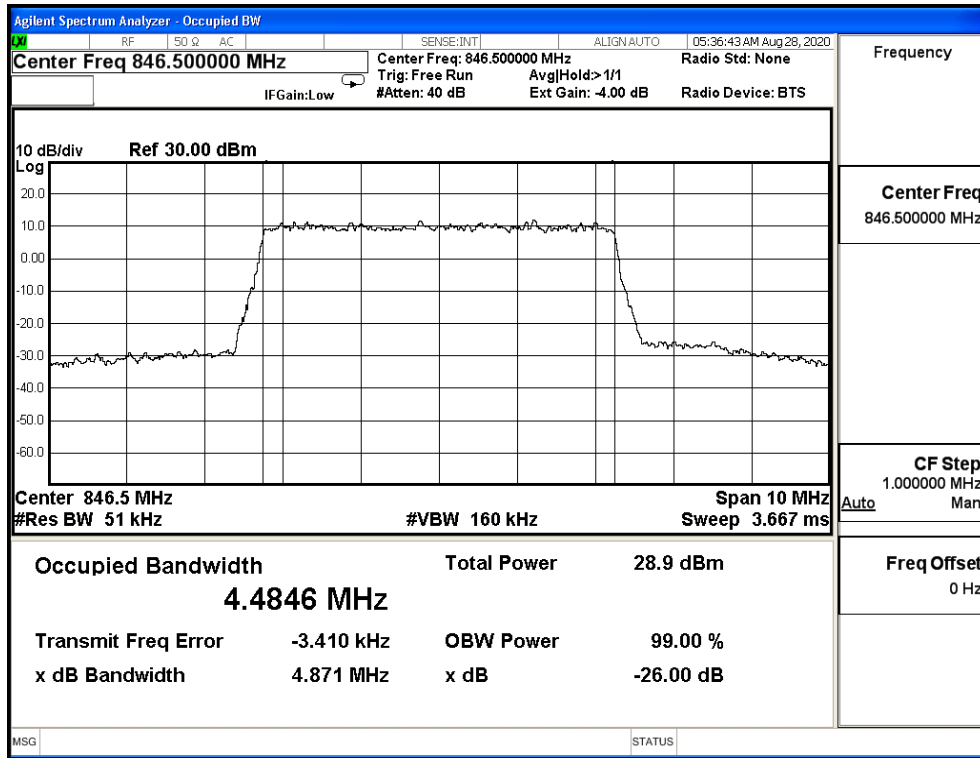
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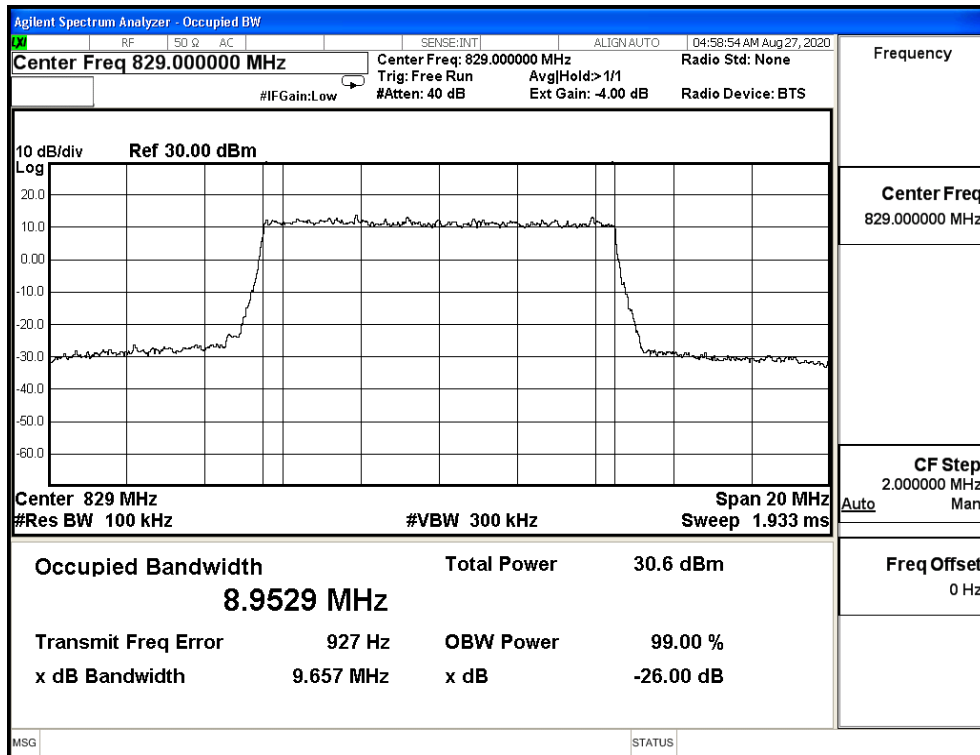
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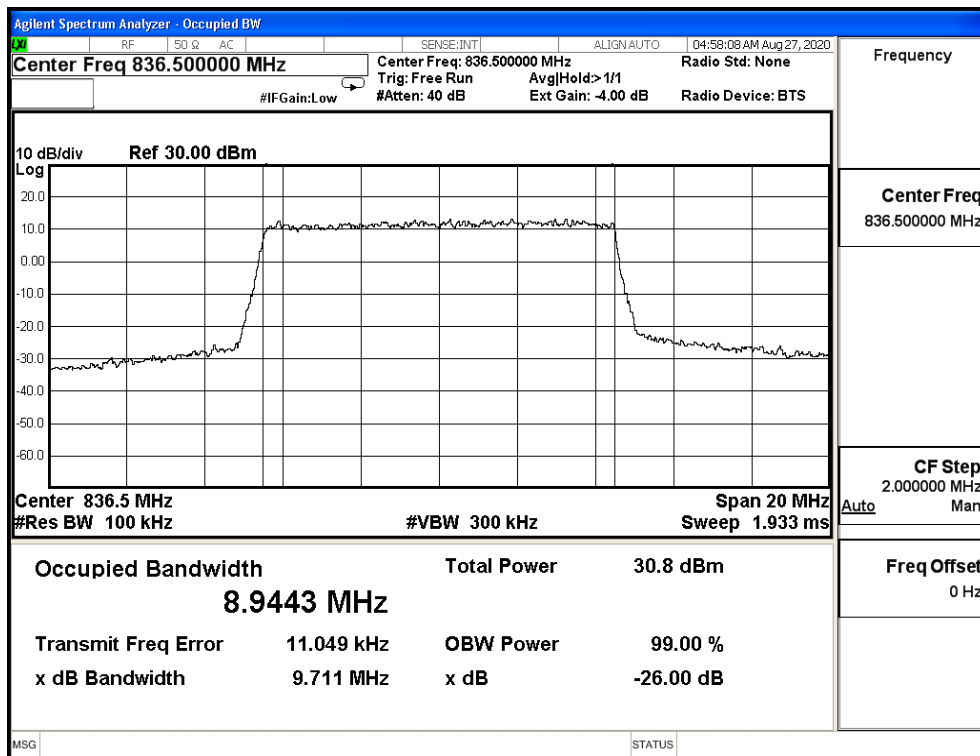
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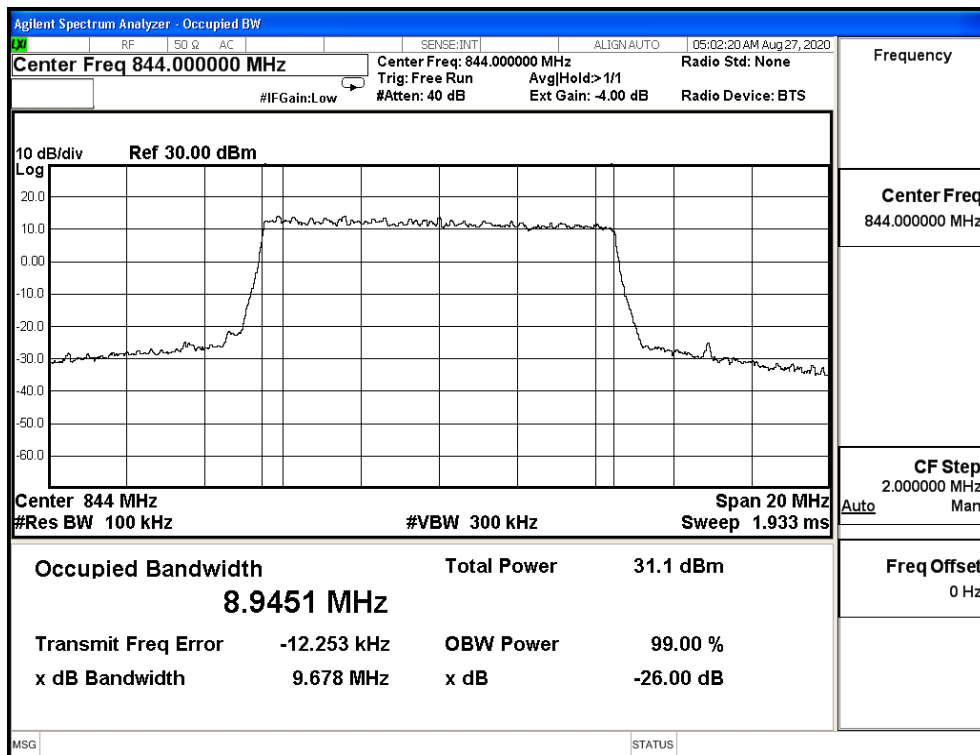
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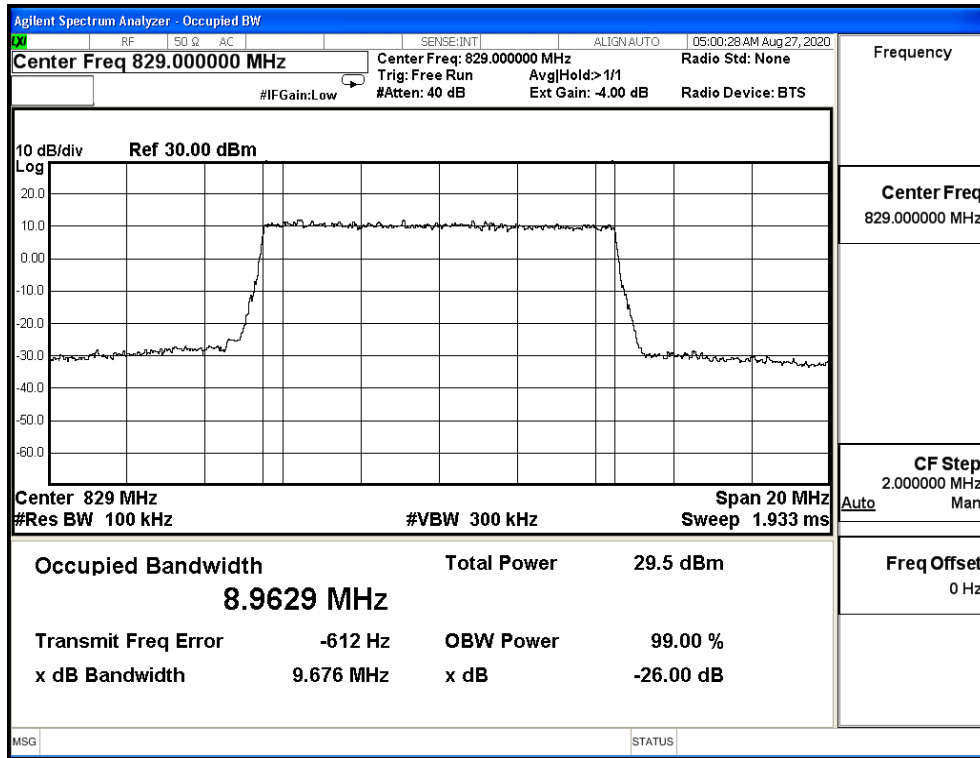
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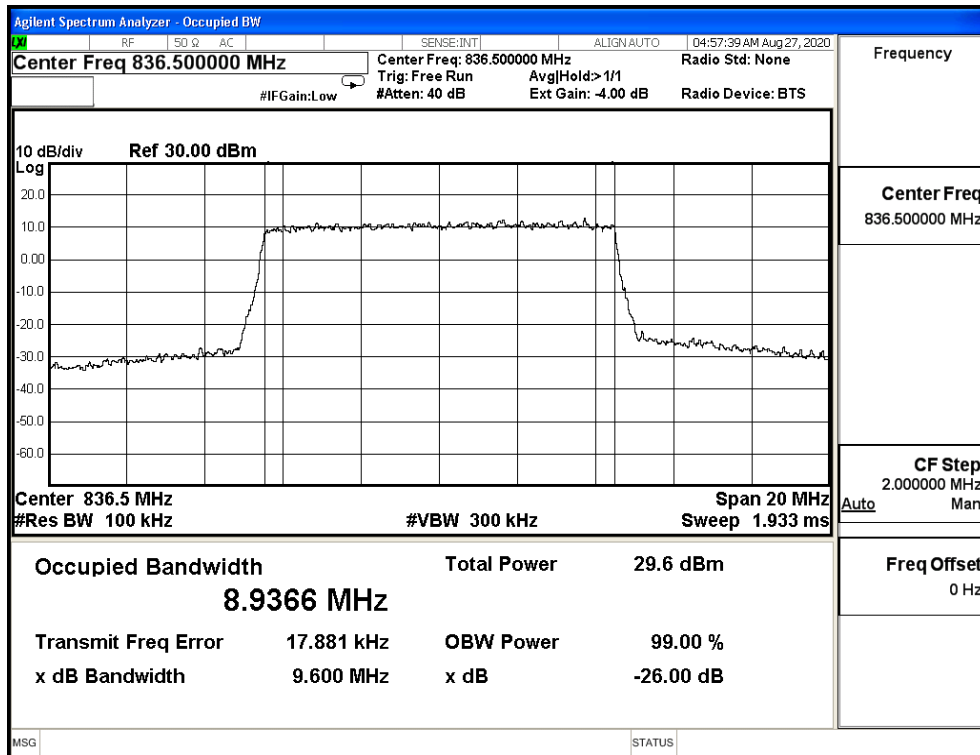
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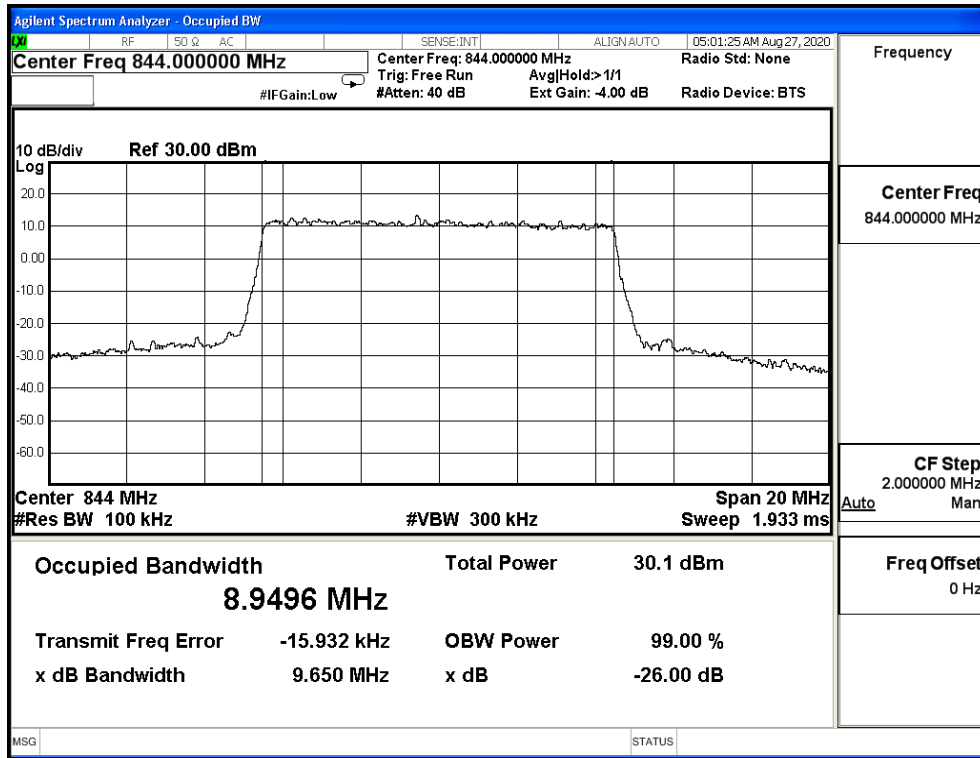
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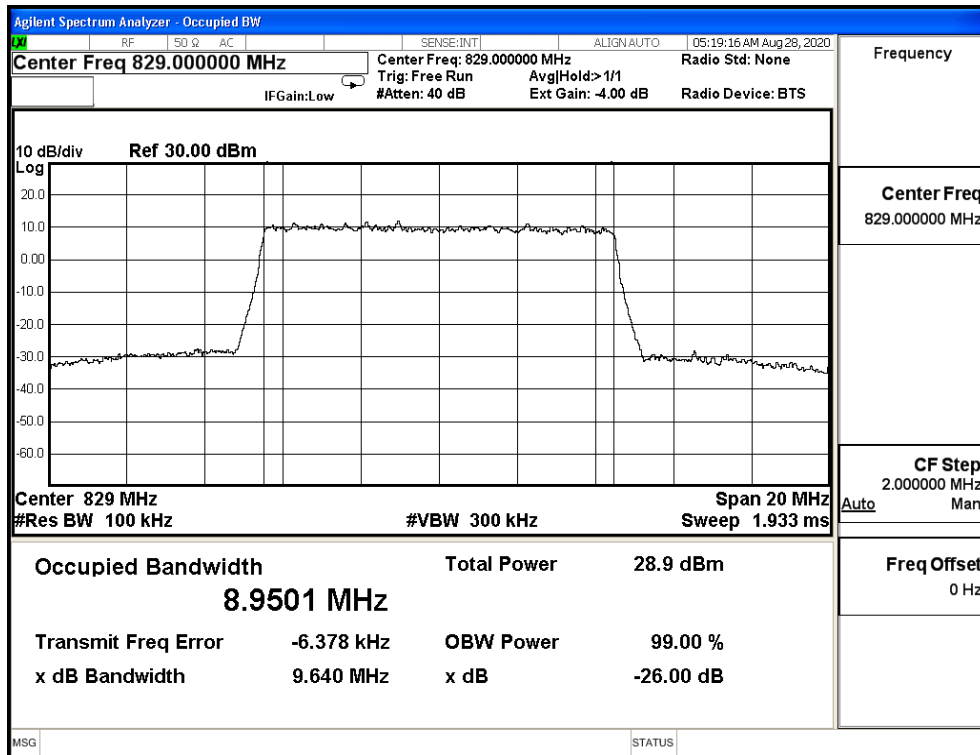
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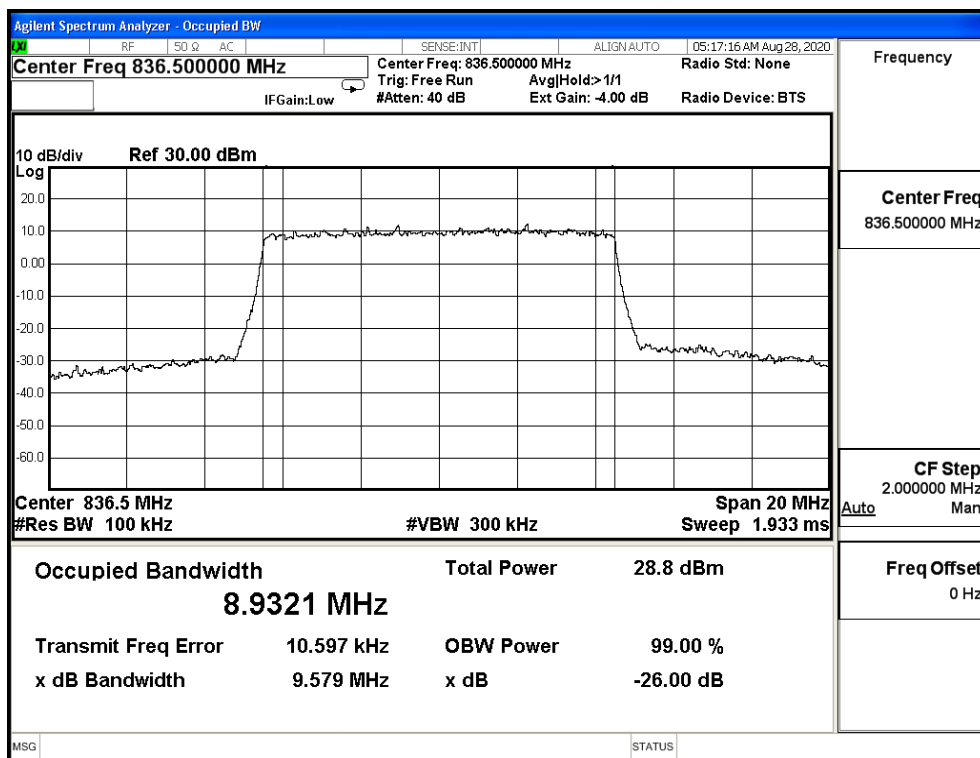
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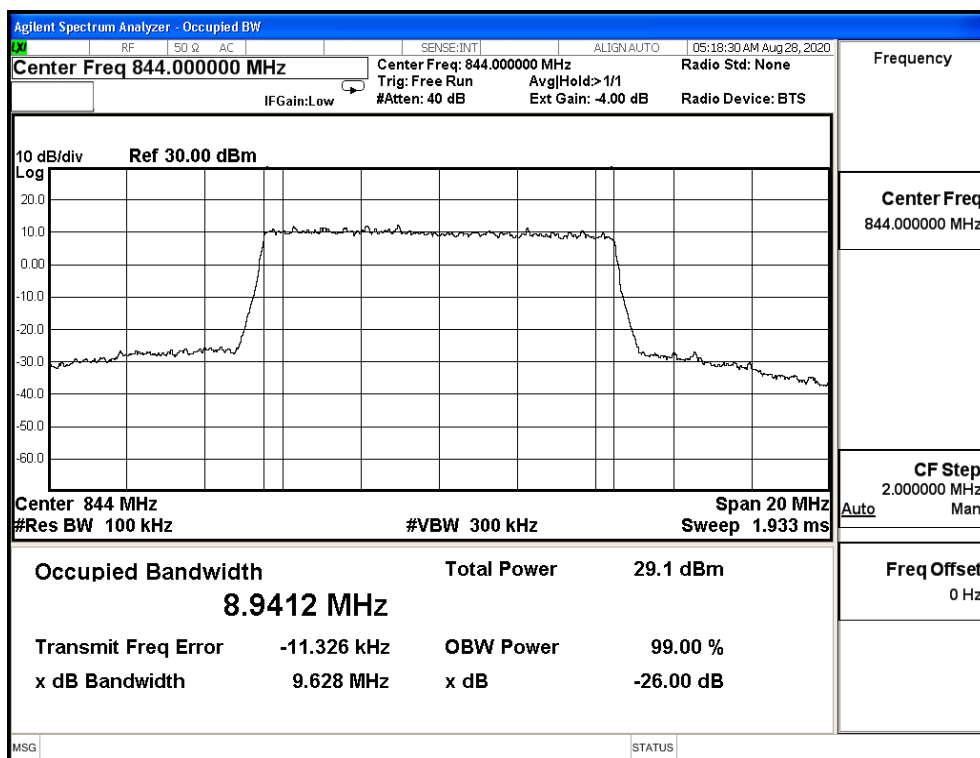
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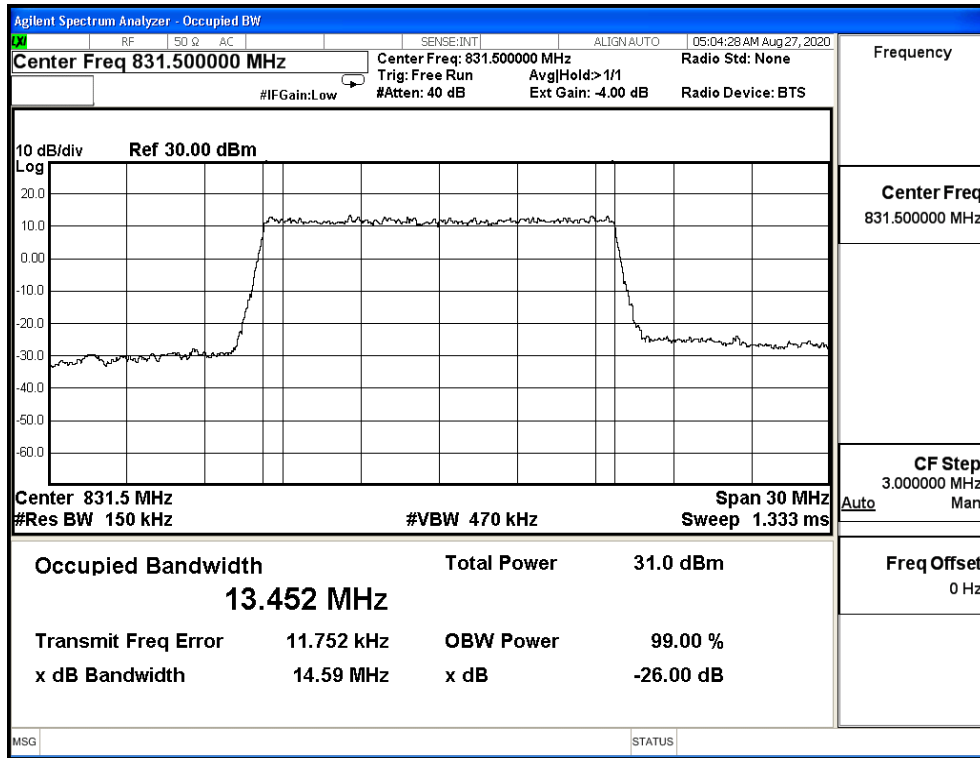
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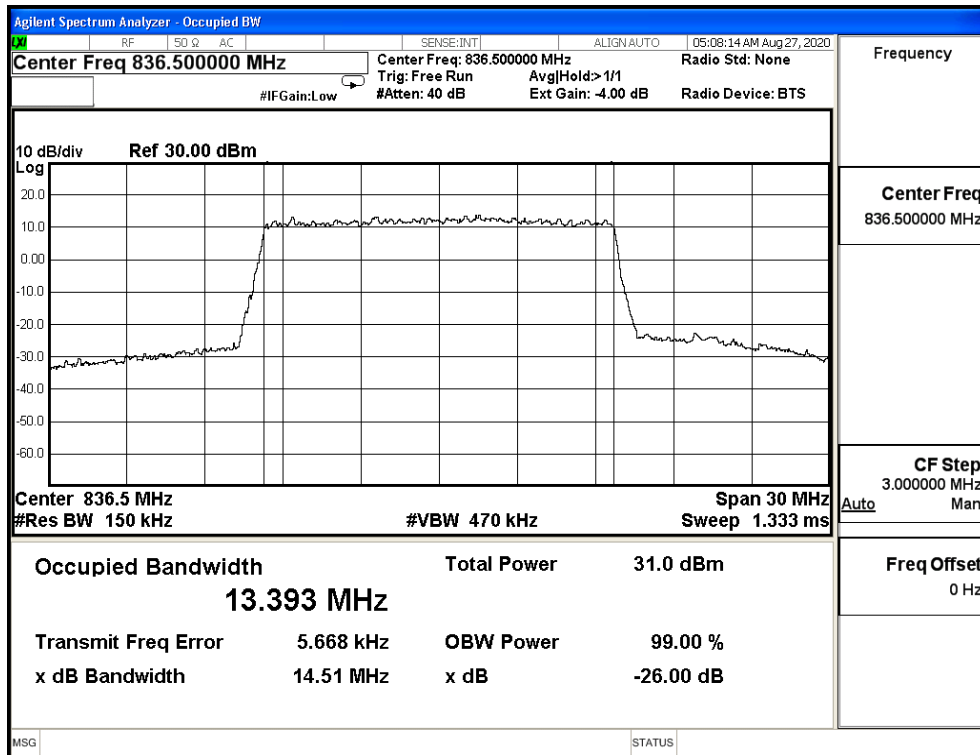
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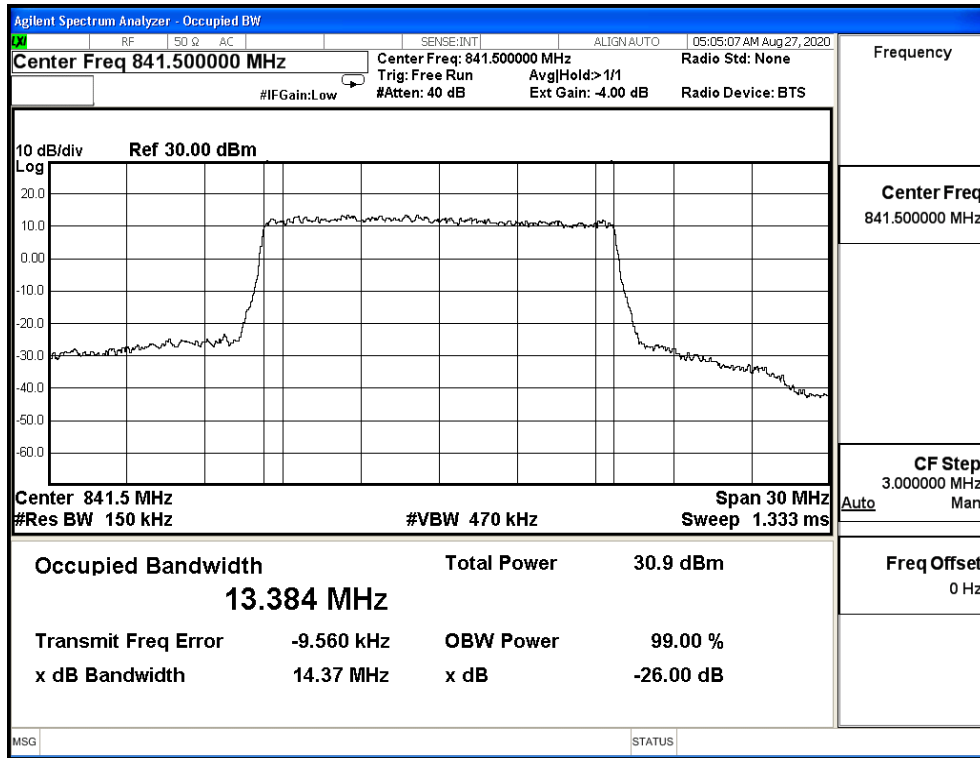
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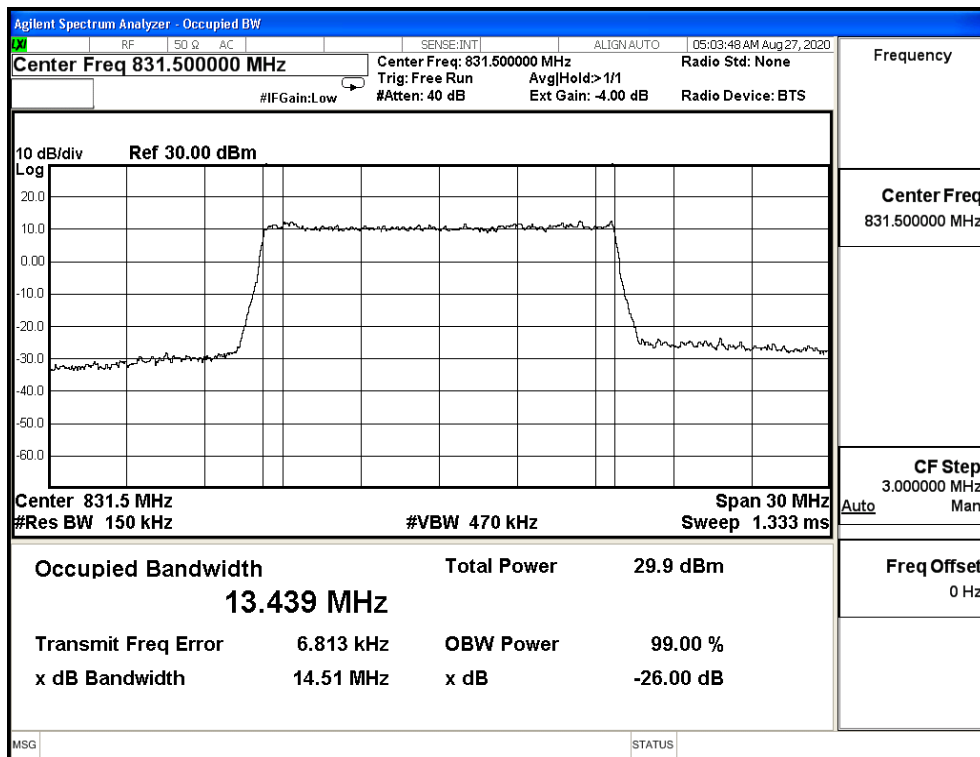
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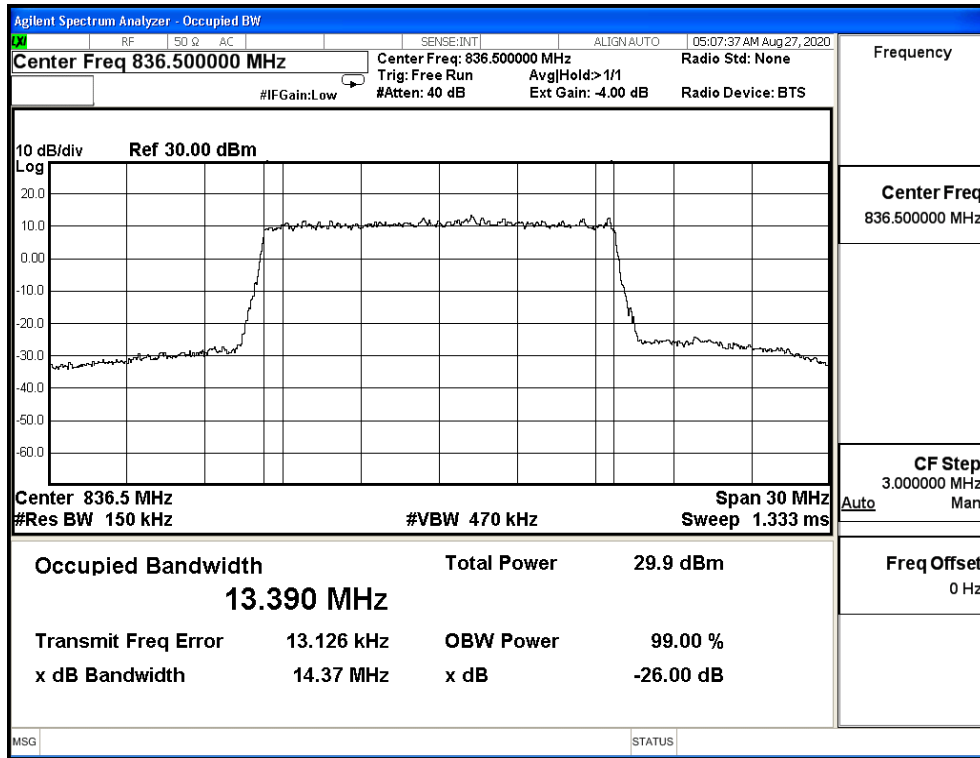
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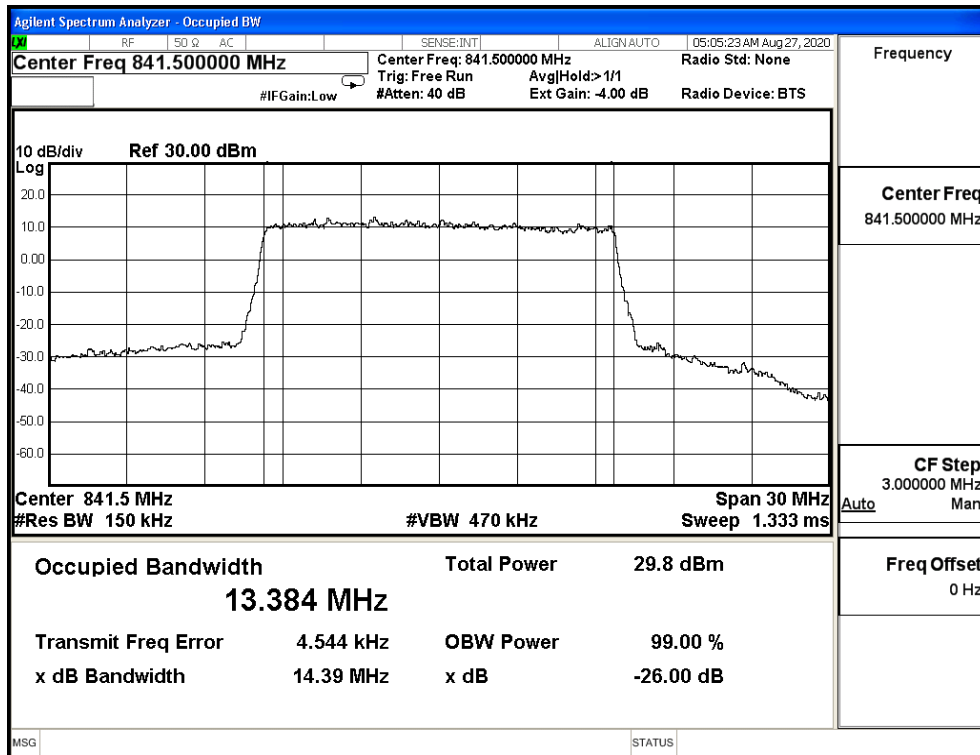
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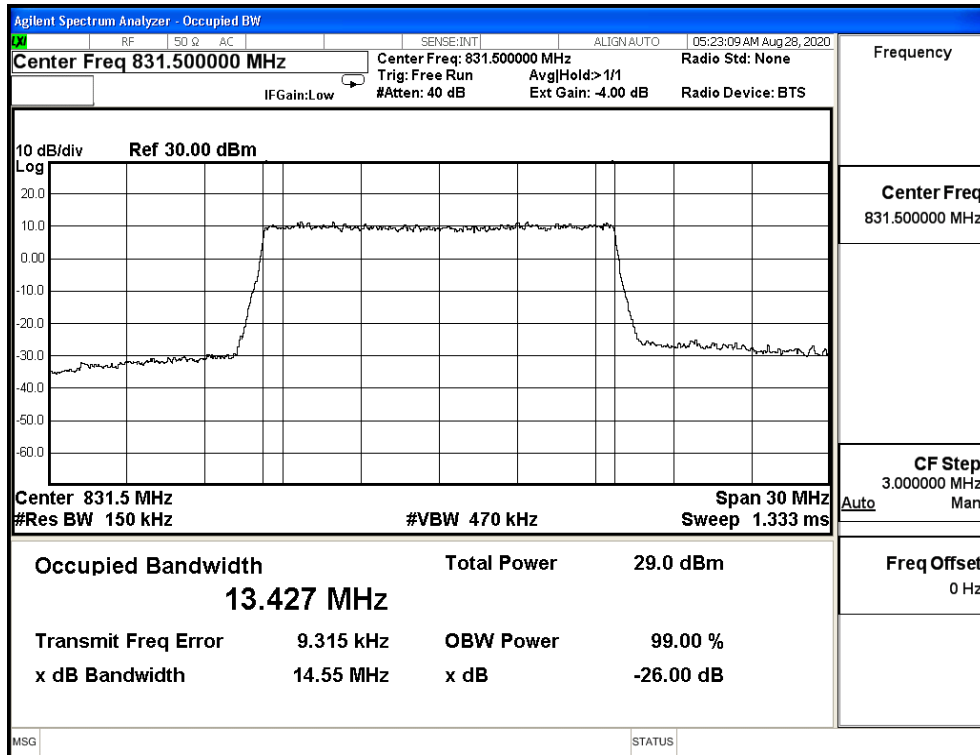
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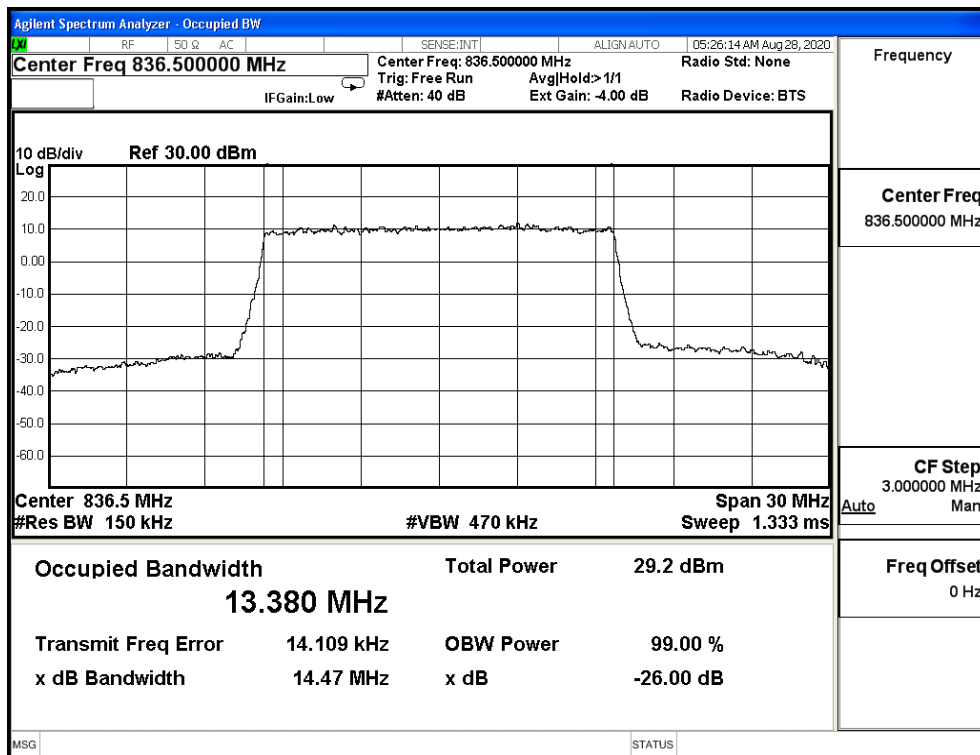
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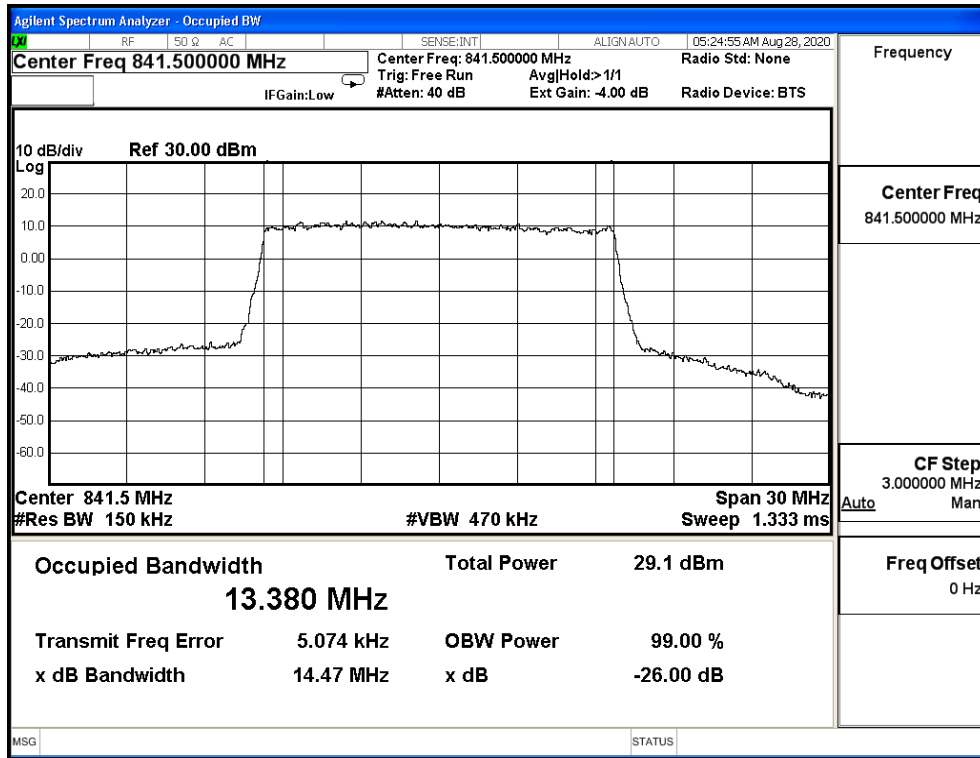
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64QAM_CH26915_15M



64QAM_CH26965_15M

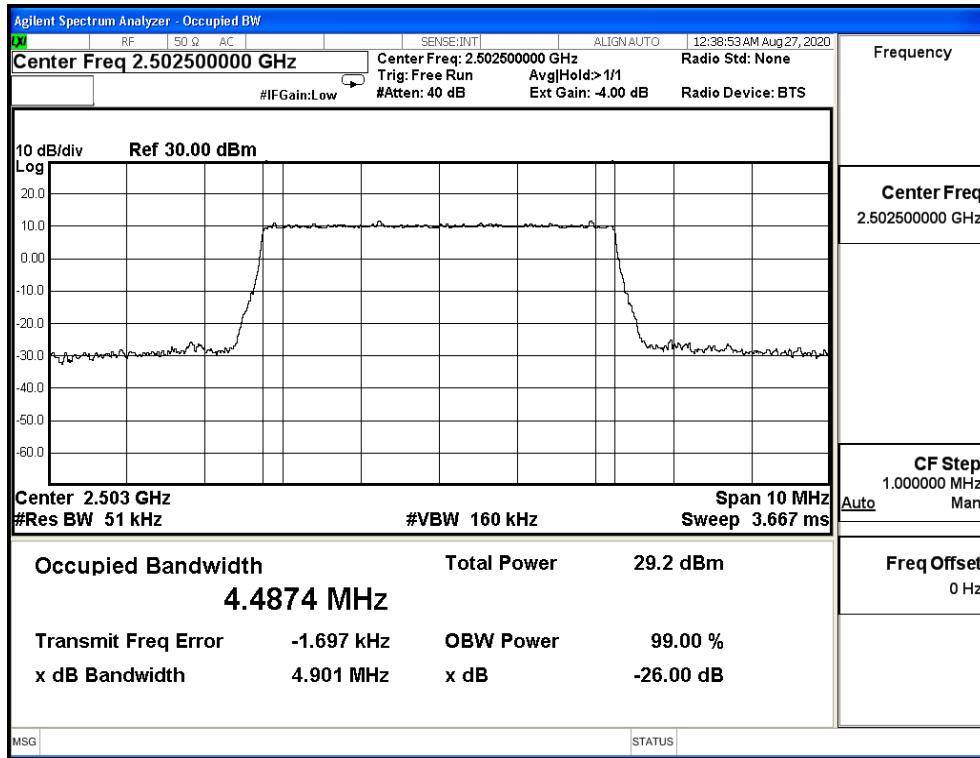


| | | | |
|-----------------|--------------------|----------------|--------|
| Product | Module | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 4: LTE Band 7 | | |
| Date of Test | 2020/09/02 | Test Site | SR12-H |
| Temperature(°C) | 24 | Humidity (%RH) | 60 |

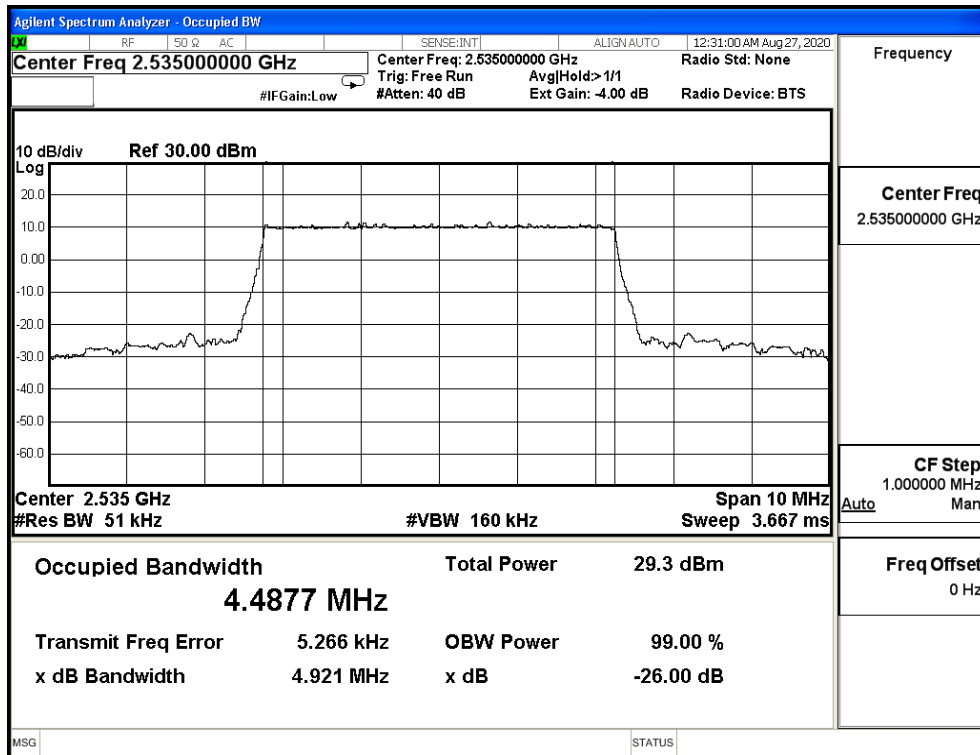
| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
|-----------------|------------|-----------------|---------------------|--------|-------------|
| | | | 26dB BW | 99% BW | |
| 5M | QPSK | 2502.5 | 4.901 | 4.487 | N/A |
| | | 2535 | 4.921 | 4.488 | N/A |
| | | 2567.5 | 4.882 | 4.469 | N/A |
| | 16-QAM | 2502.5 | 4.886 | 4.477 | N/A |
| | | 2535 | 4.865 | 4.474 | N/A |
| | | 2567.5 | 4.922 | 4.479 | N/A |
| | 64-QAM | 2502.5 | 4.881 | 4.483 | N/A |
| | | 2535 | 4.879 | 4.485 | N/A |
| | | 2567.5 | 4.882 | 4.486 | N/A |
| 10M | QPSK | 2505 | 9.650 | 8.942 | N/A |
| | | 2535 | 9.641 | 8.952 | N/A |
| | | 2565 | 9.719 | 8.963 | N/A |
| | 16-QAM | 2505 | 9.642 | 8.949 | N/A |
| | | 2535 | 9.658 | 8.950 | N/A |
| | | 2565 | 9.592 | 8.947 | N/A |
| | 64-QAM | 2505 | 9.634 | 8.936 | N/A |
| | | 2535 | 9.628 | 8.944 | N/A |
| | | 2565 | 9.619 | 8.939 | N/A |
| 15M | QPSK | 2507.5 | 14.410 | 13.402 | N/A |
| | | 2535 | 14.490 | 13.434 | N/A |
| | | 2562.5 | 14.450 | 13.403 | N/A |
| | 16-QAM | 2507.5 | 14.450 | 13.400 | N/A |
| | | 2535 | 14.450 | 13.413 | N/A |
| | | 2562.5 | 14.460 | 13.414 | N/A |
| | 64-QAM | 2507.5 | 14.440 | 13.385 | N/A |
| | | 2535 | 14.560 | 13.406 | N/A |
| | | 2562.5 | 14.440 | 13.395 | N/A |

| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
|--------------------|------------|--------------------|------------------------|--------|----------------|
| | | | 26dB BW | 99% BW | |
| 20M | QPSK | 2510 | 19.080 | 17.872 | N/A |
| | | 2535 | 19.020 | 17.904 | N/A |
| | | 2560 | 19.420 | 17.895 | N/A |
| | 16-QAM | 2510 | 19.180 | 17.906 | N/A |
| | | 2535 | 19.160 | 17.906 | N/A |
| | | 2560 | 19.120 | 17.882 | N/A |
| | 64-QAM | 2510 | 19.160 | 17.855 | N/A |
| | | 2535 | 19.290 | 17.882 | N/A |
| | | 2560 | 19.250 | 17.857 | N/A |

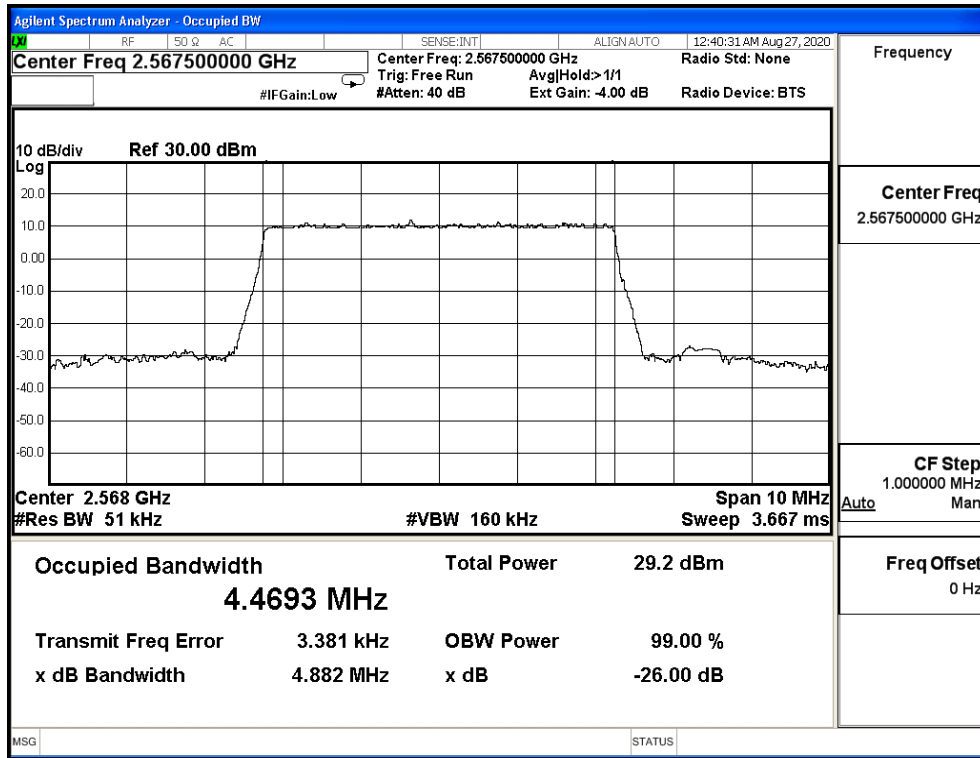
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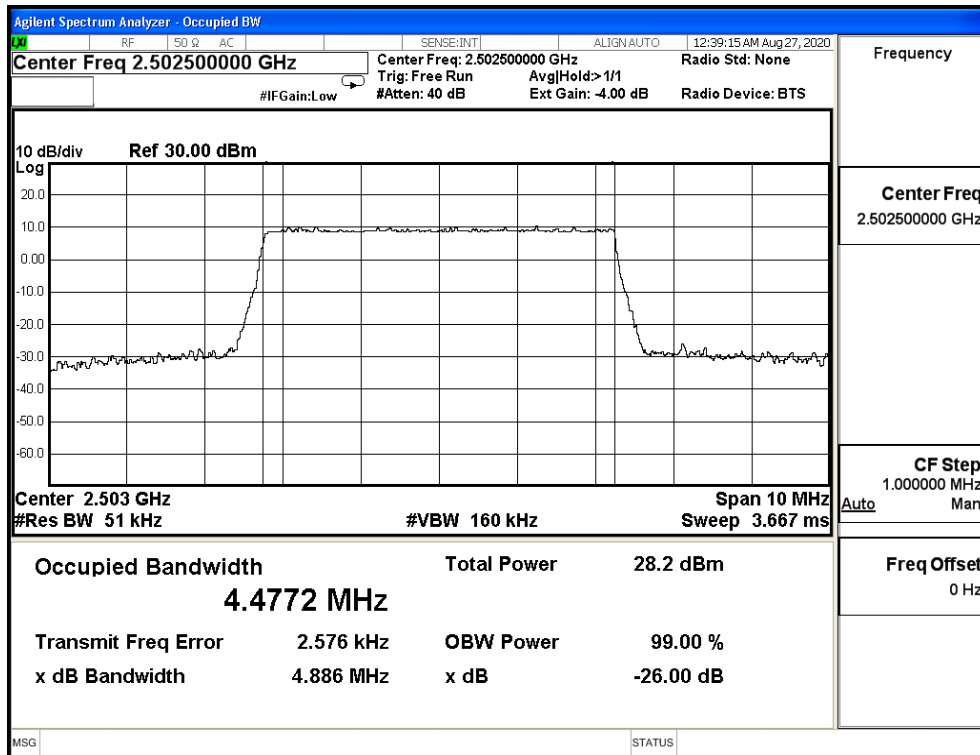
QPSK_CH21100_5M



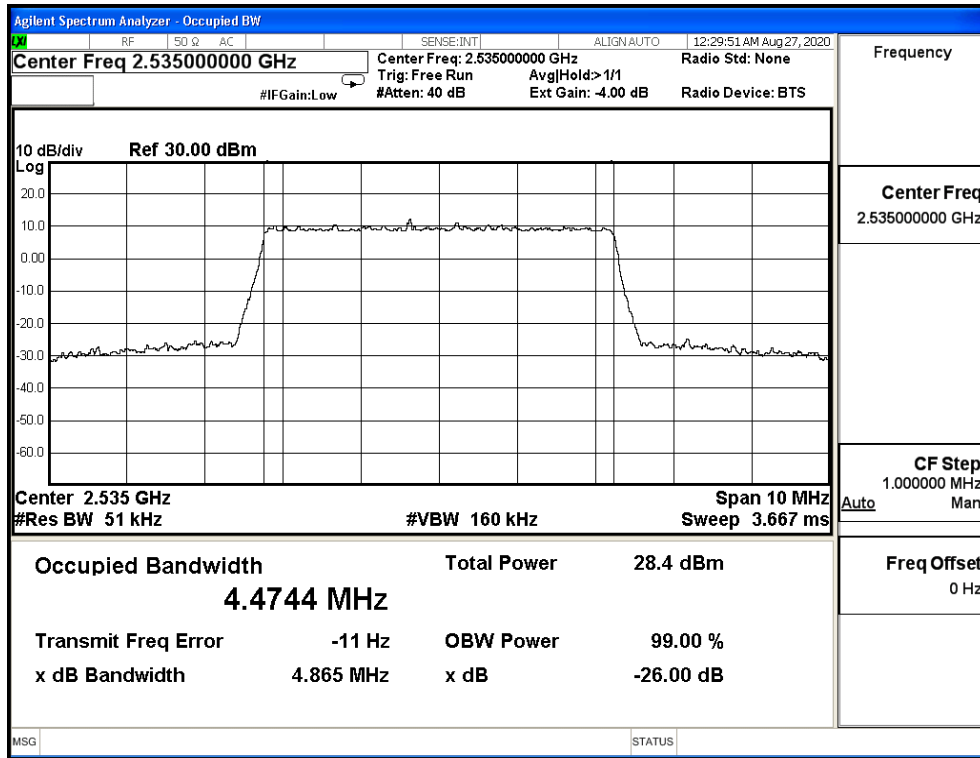
QPSK_CH21425_5M



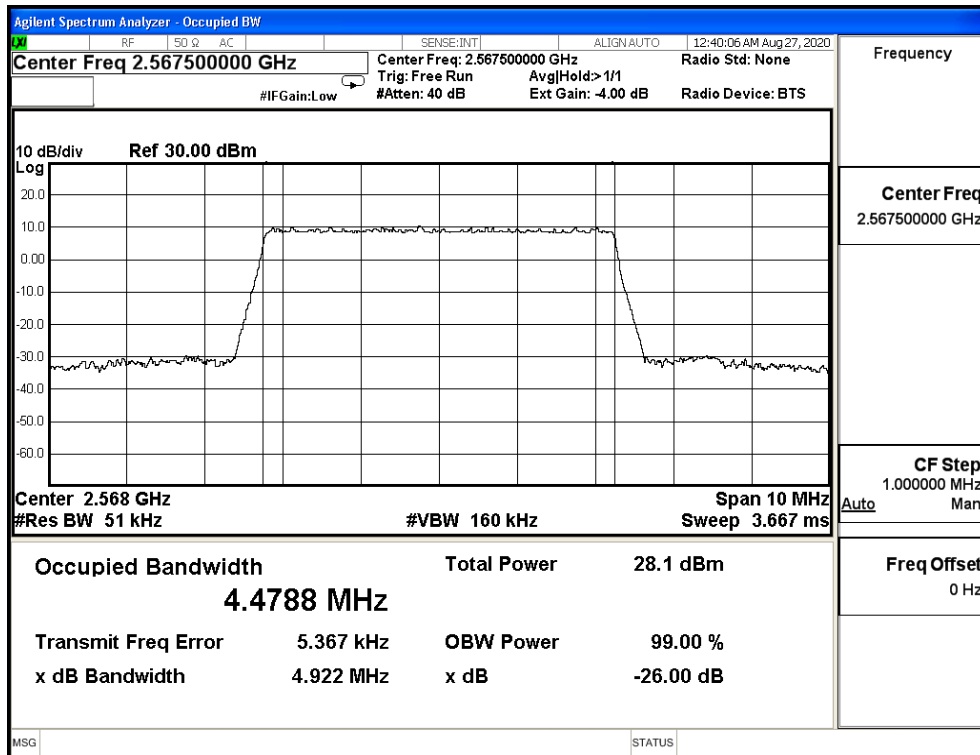
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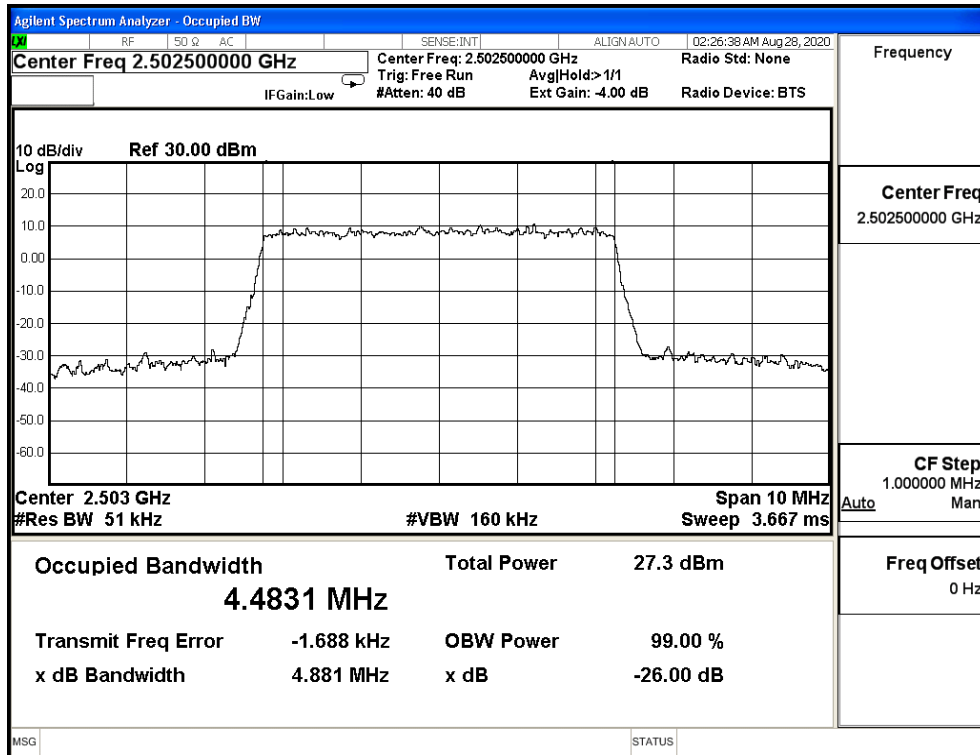
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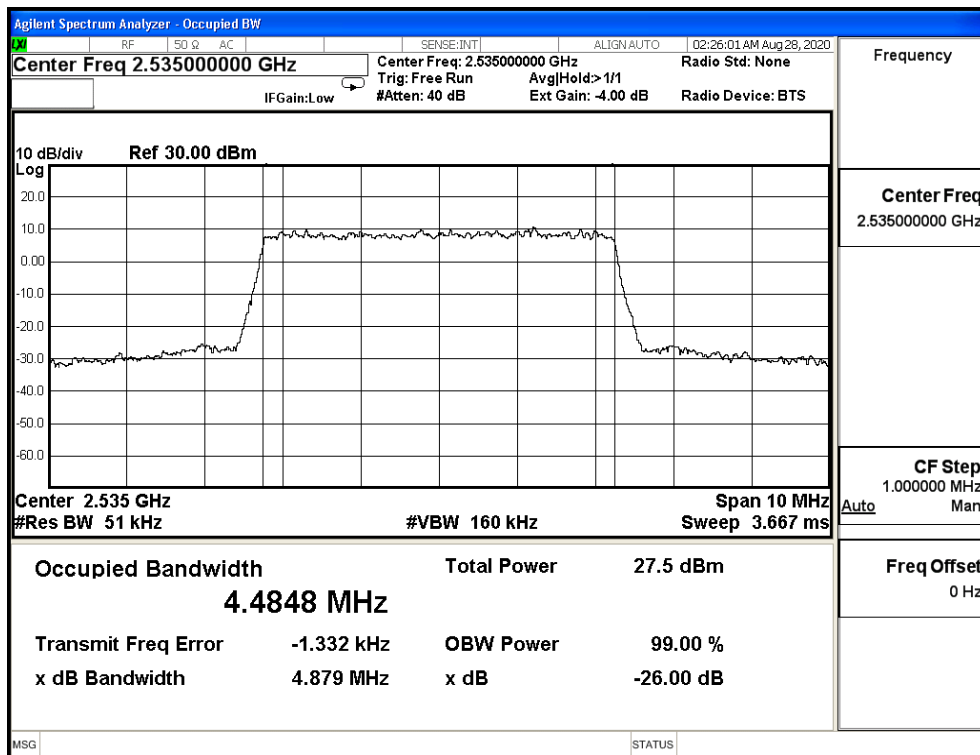
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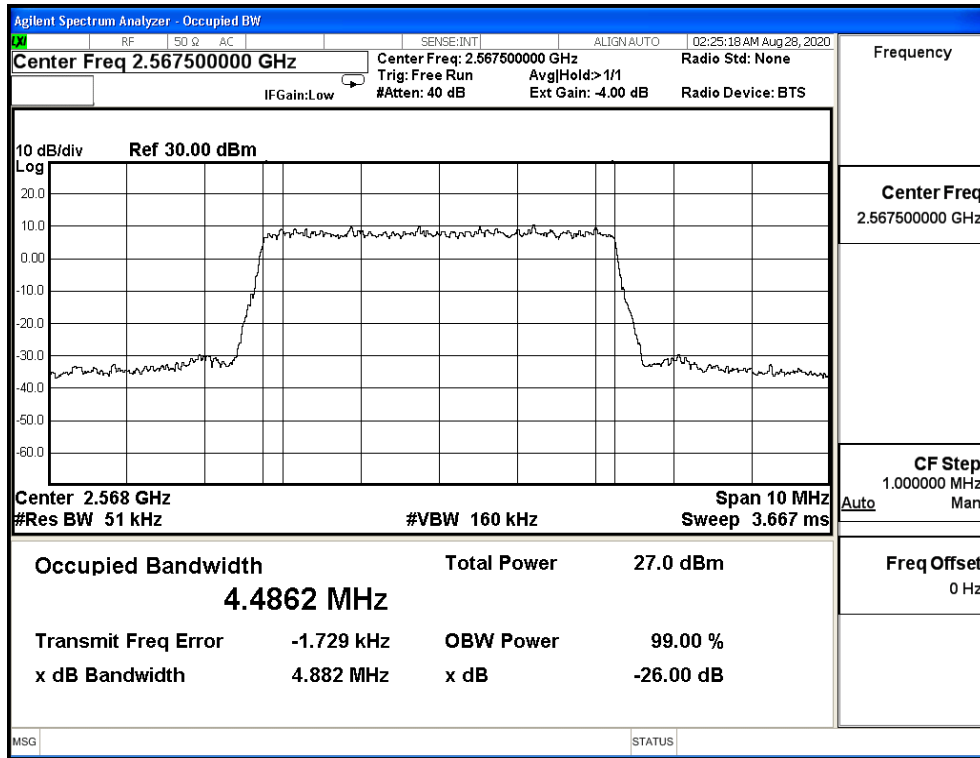
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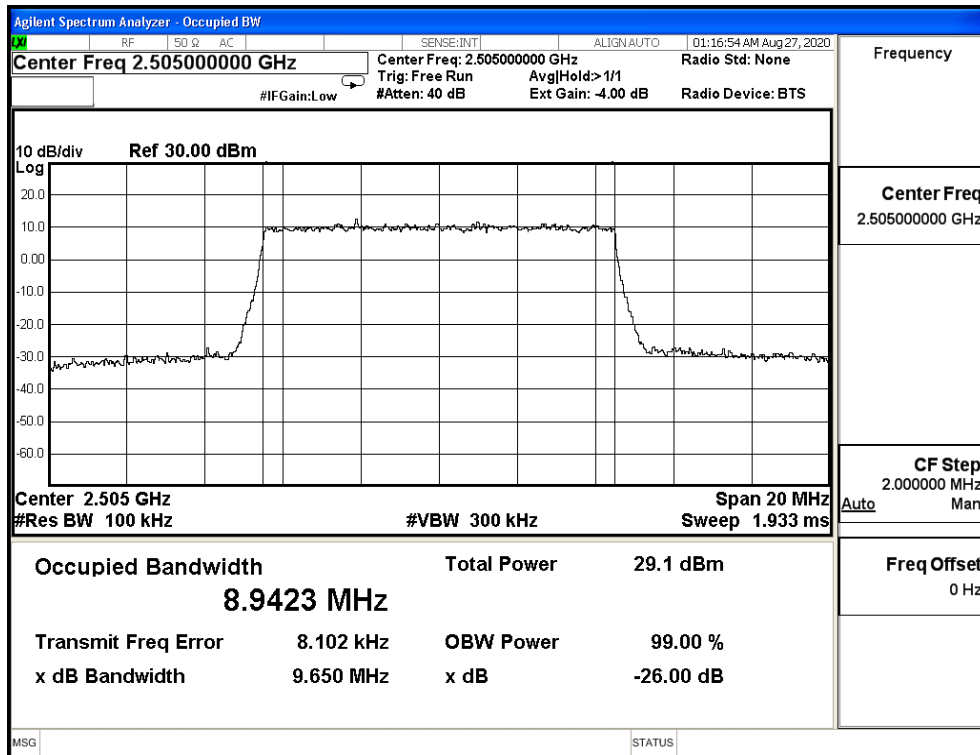
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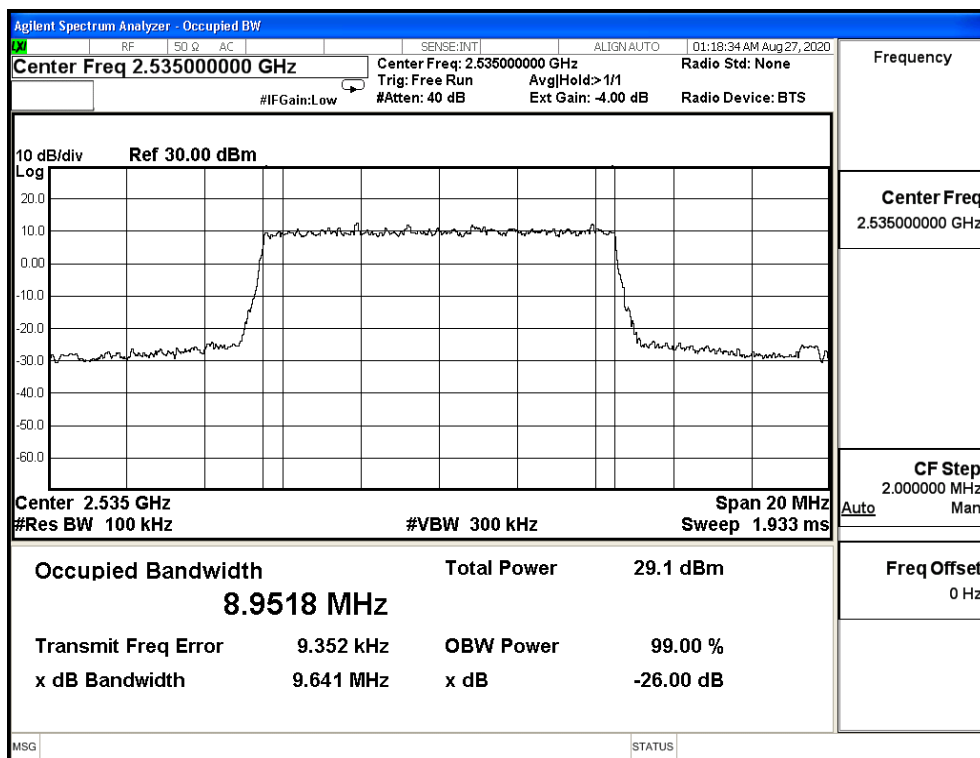
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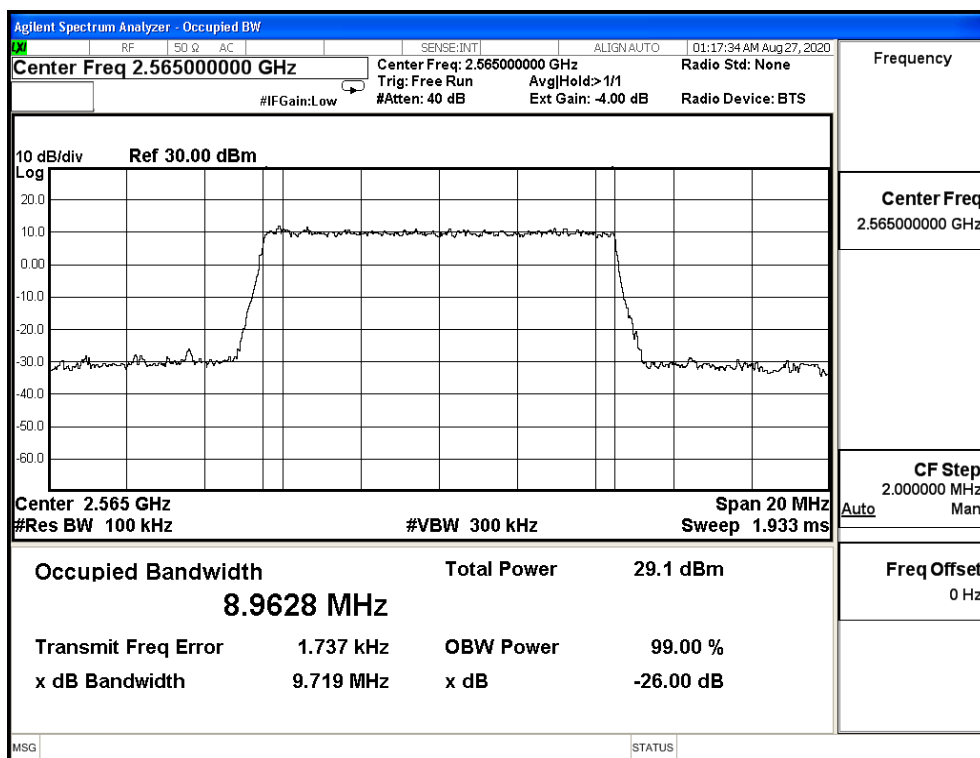
QPSK_CH20800_10M



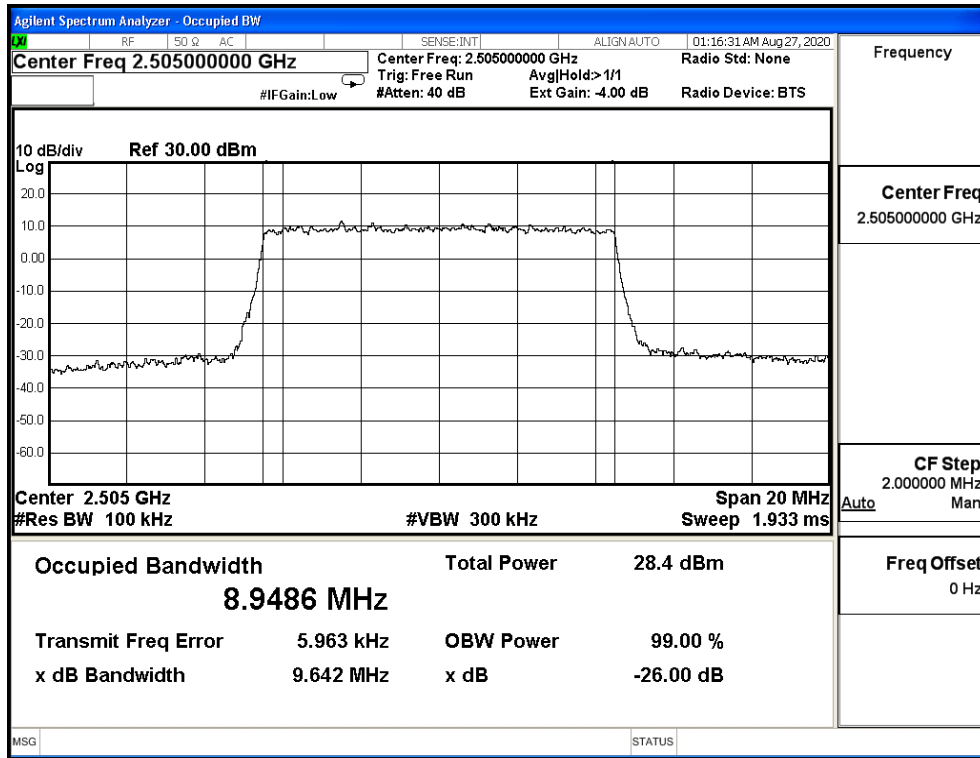
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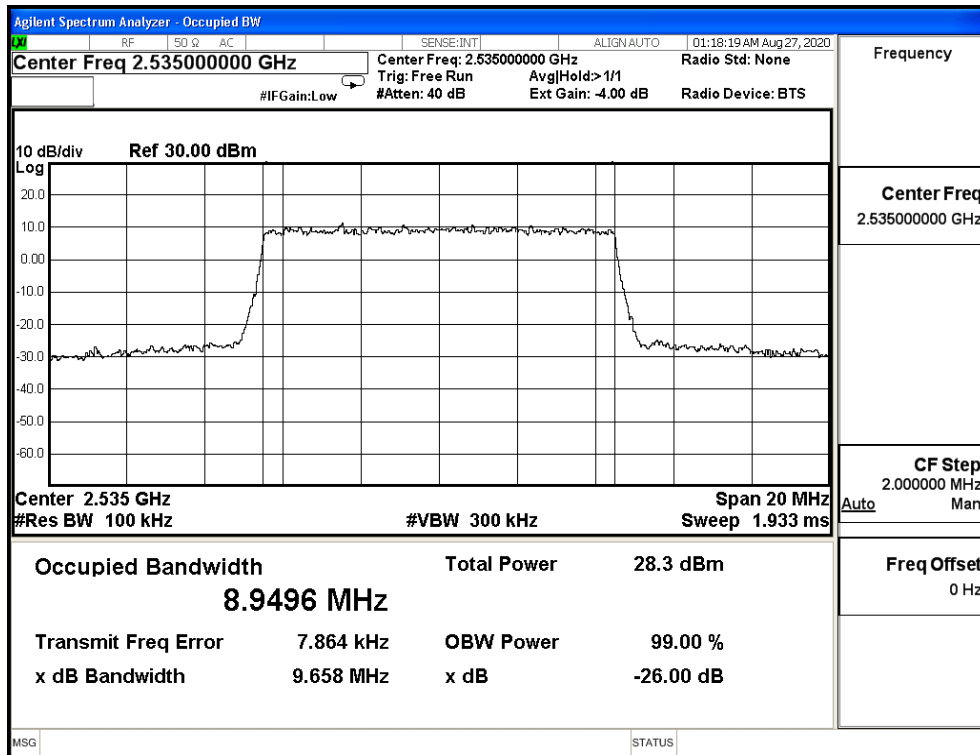
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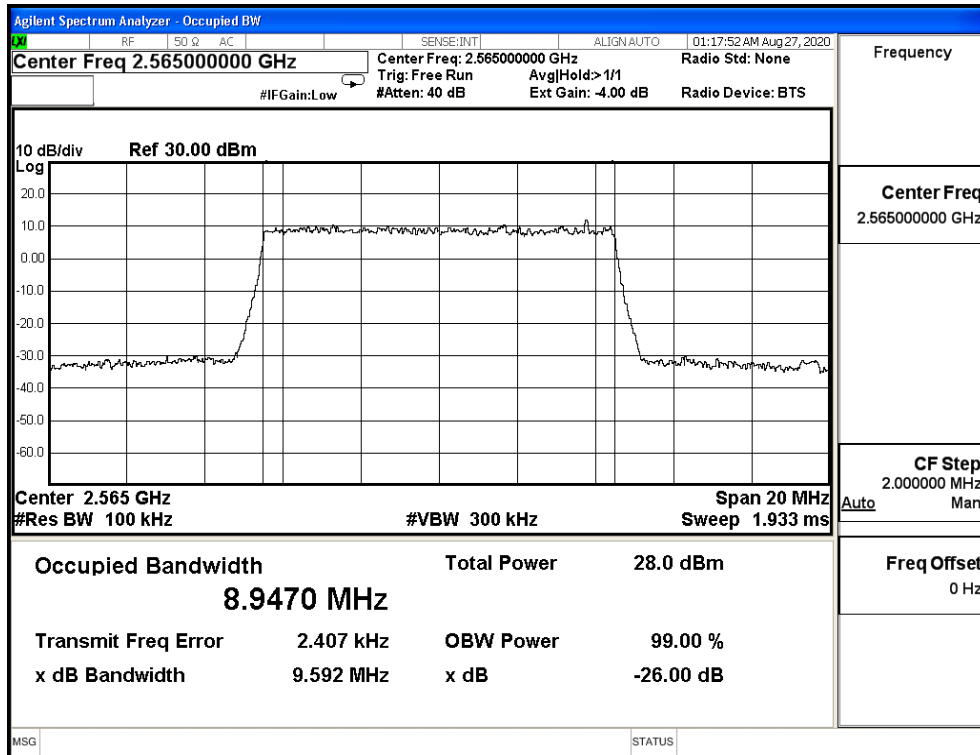
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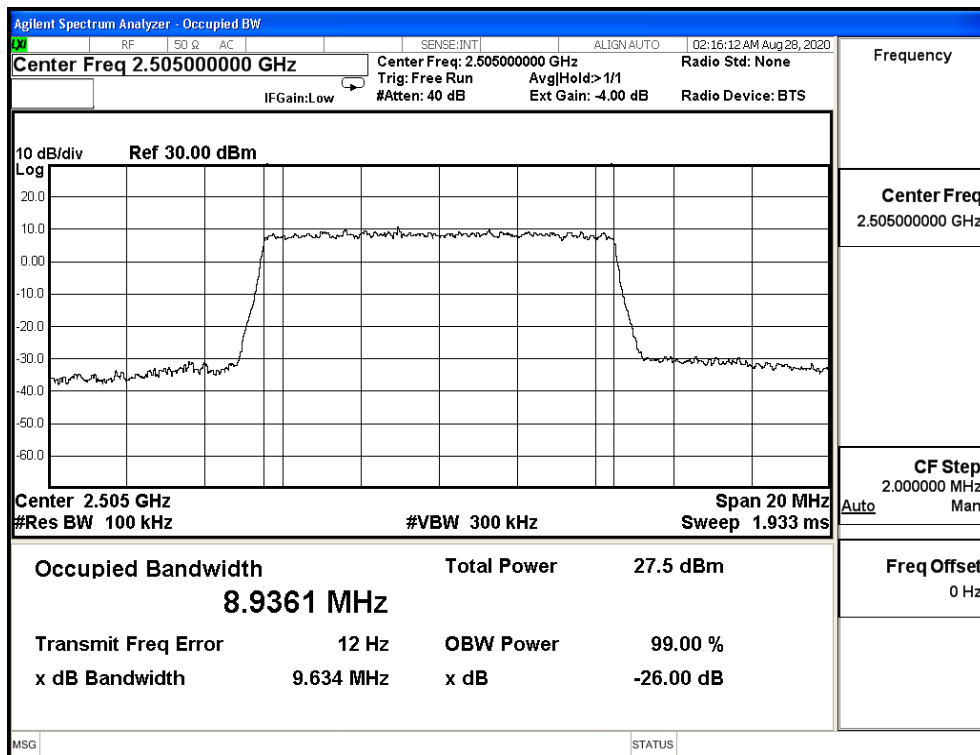
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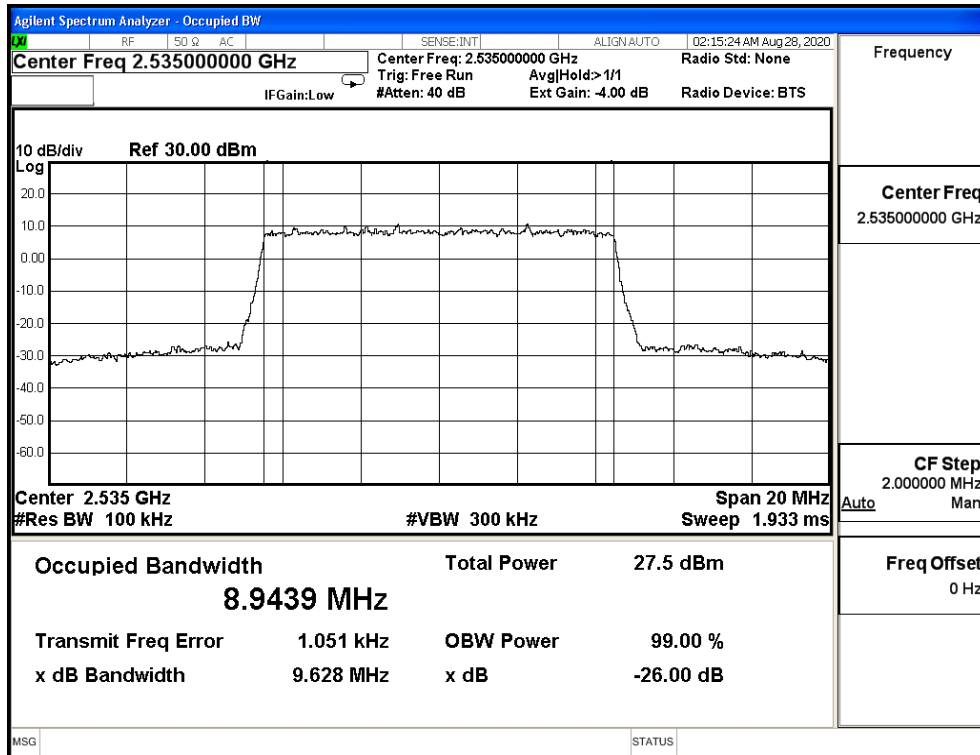
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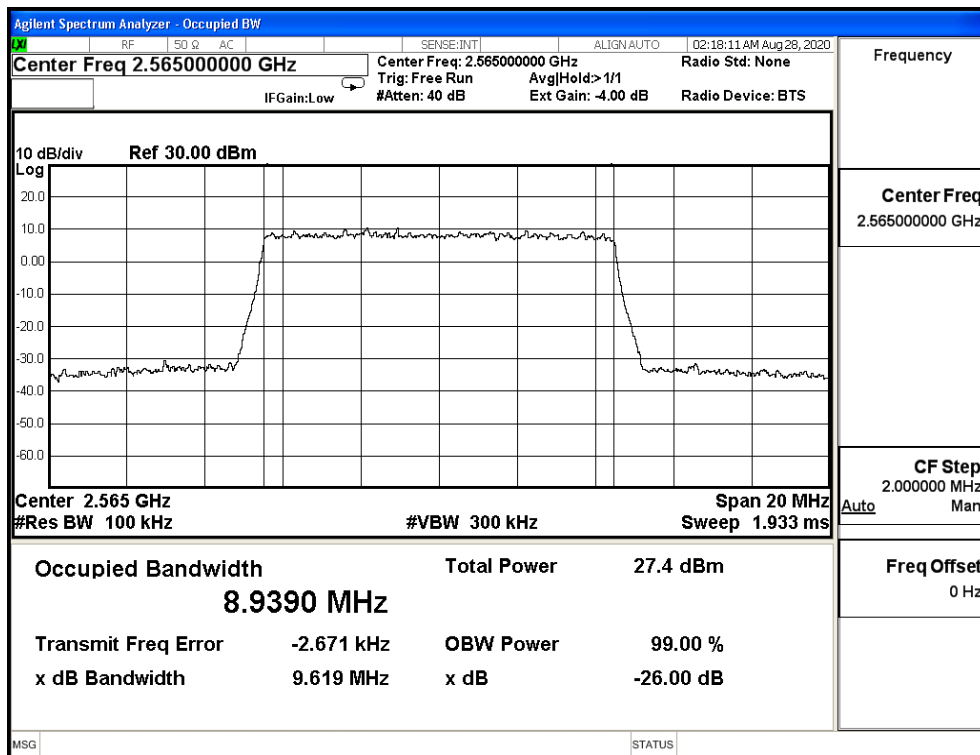
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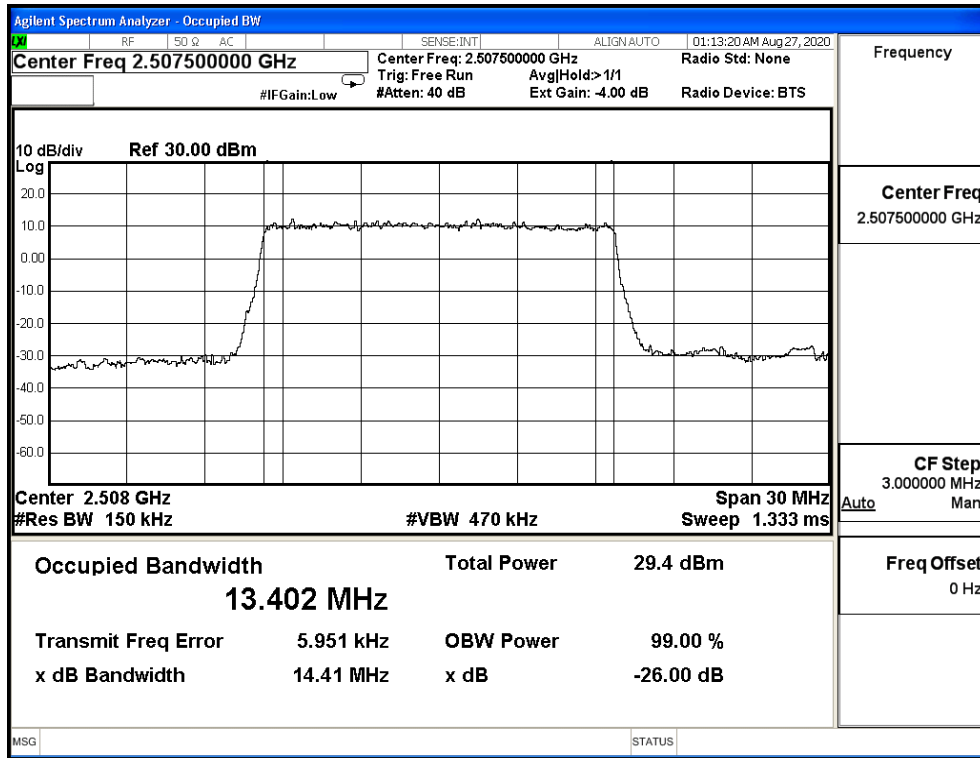
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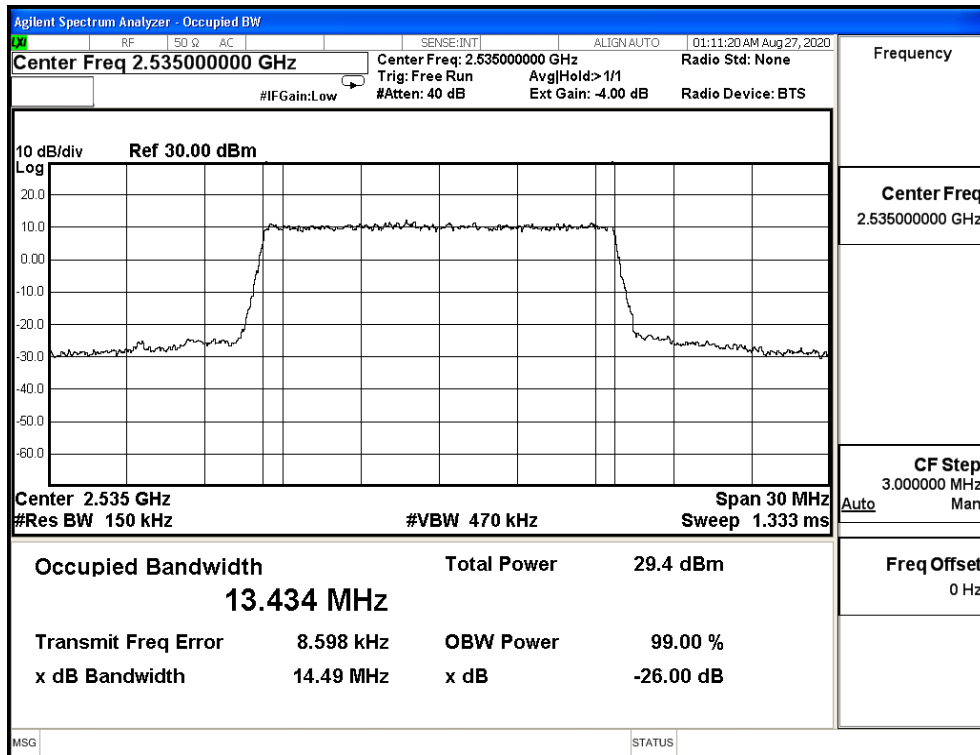
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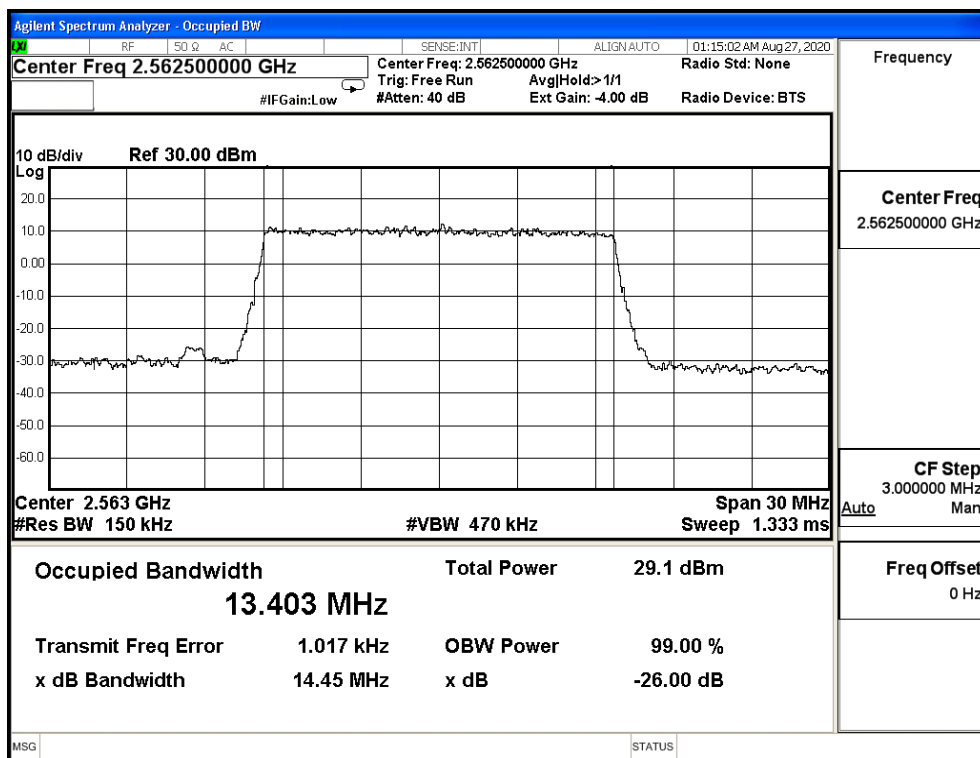
QPSK_CH20825_15M



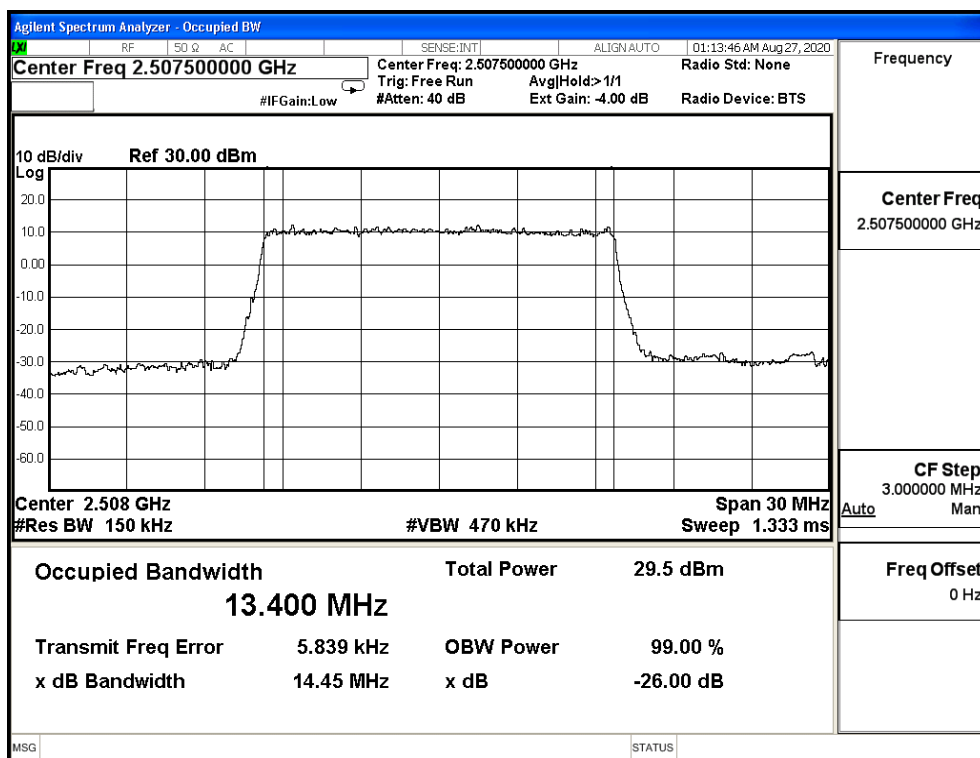
QPSK_CH21100_15M



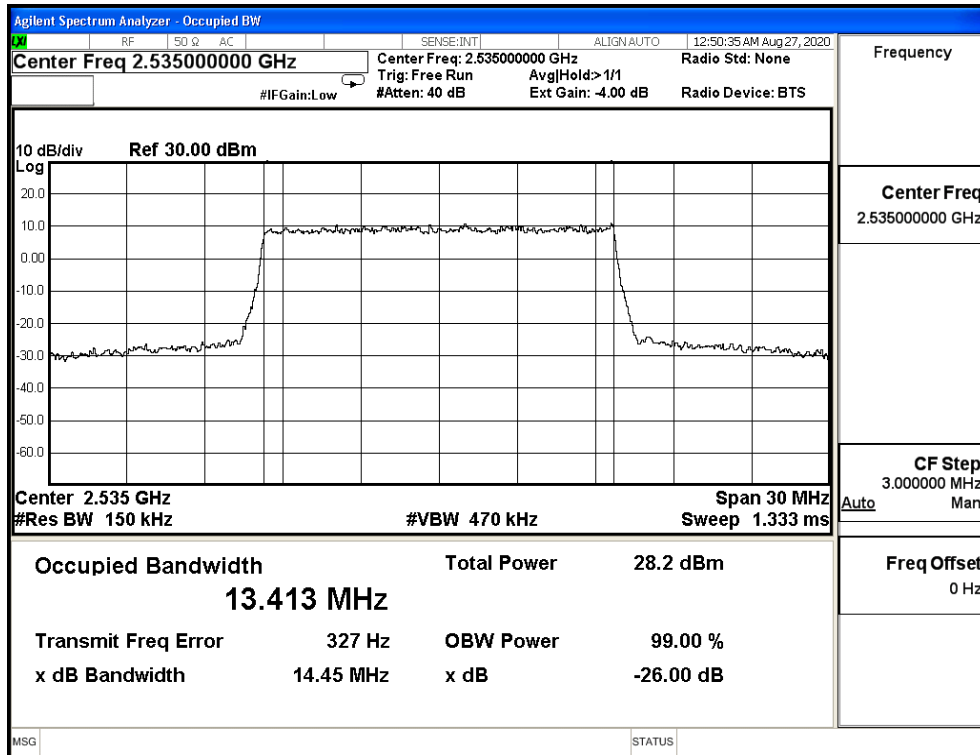
QPSK_CH21375_15M



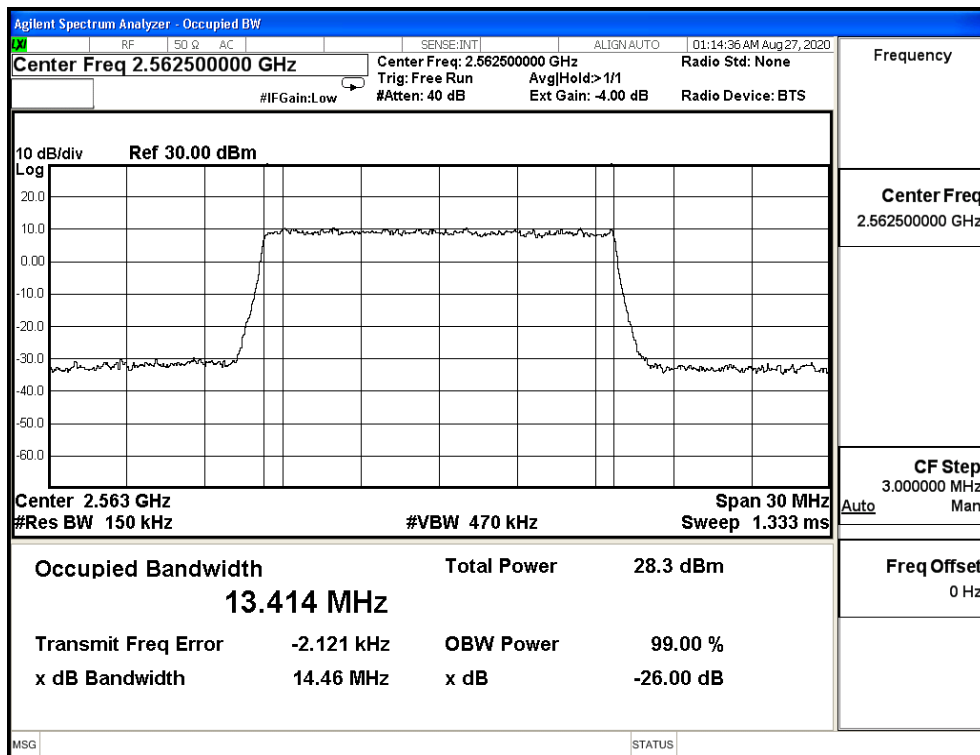
16QAM_CH20825_15M



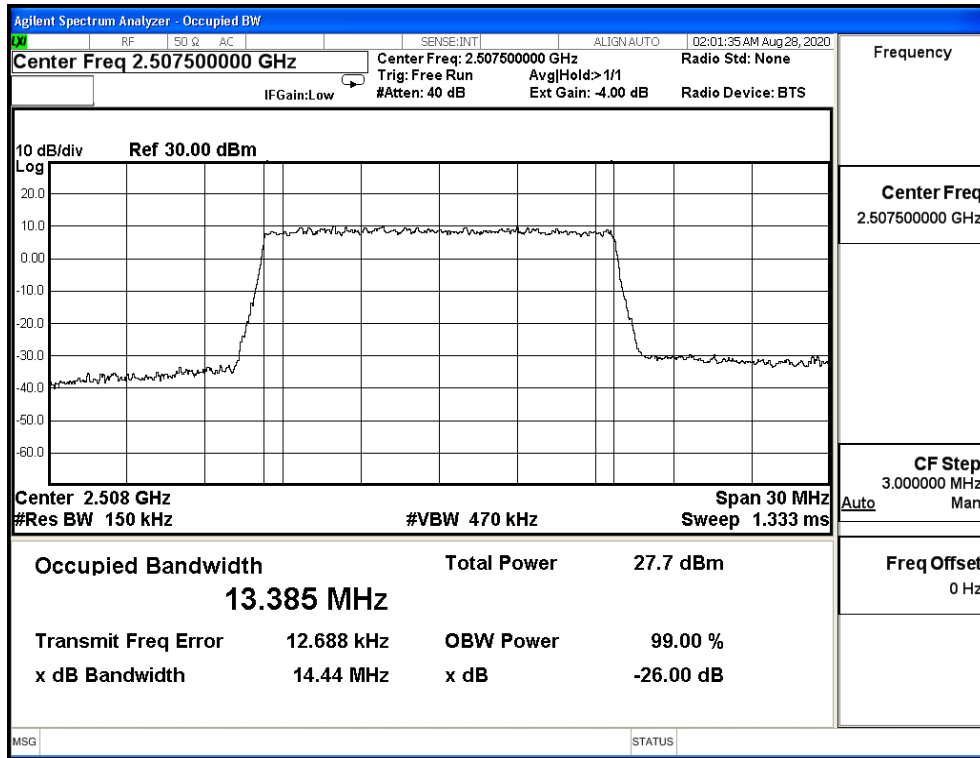
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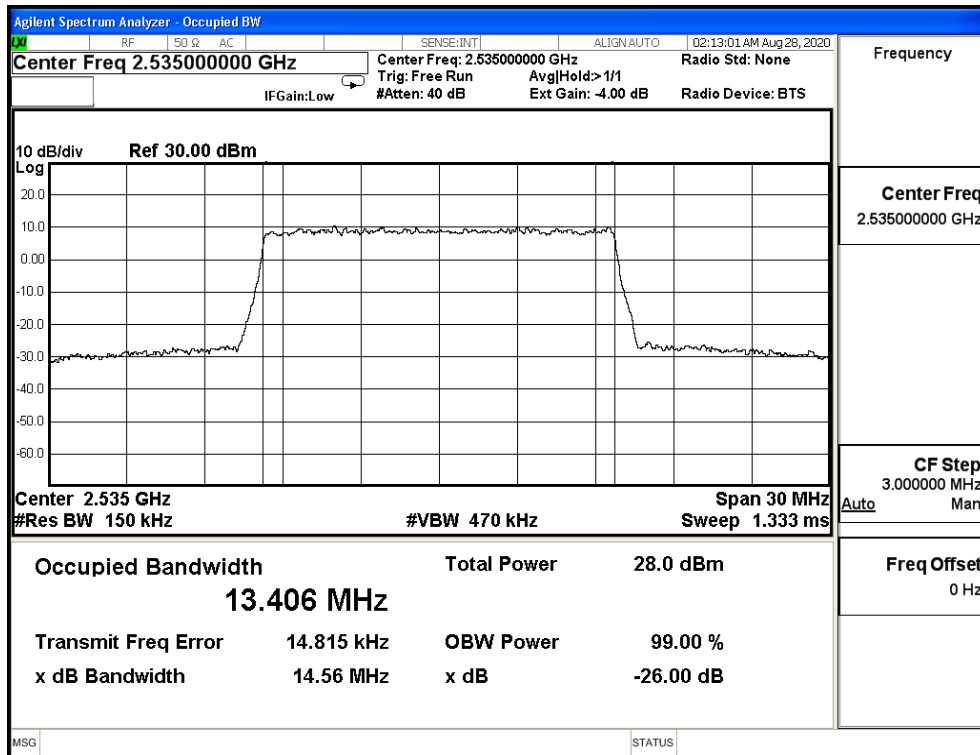
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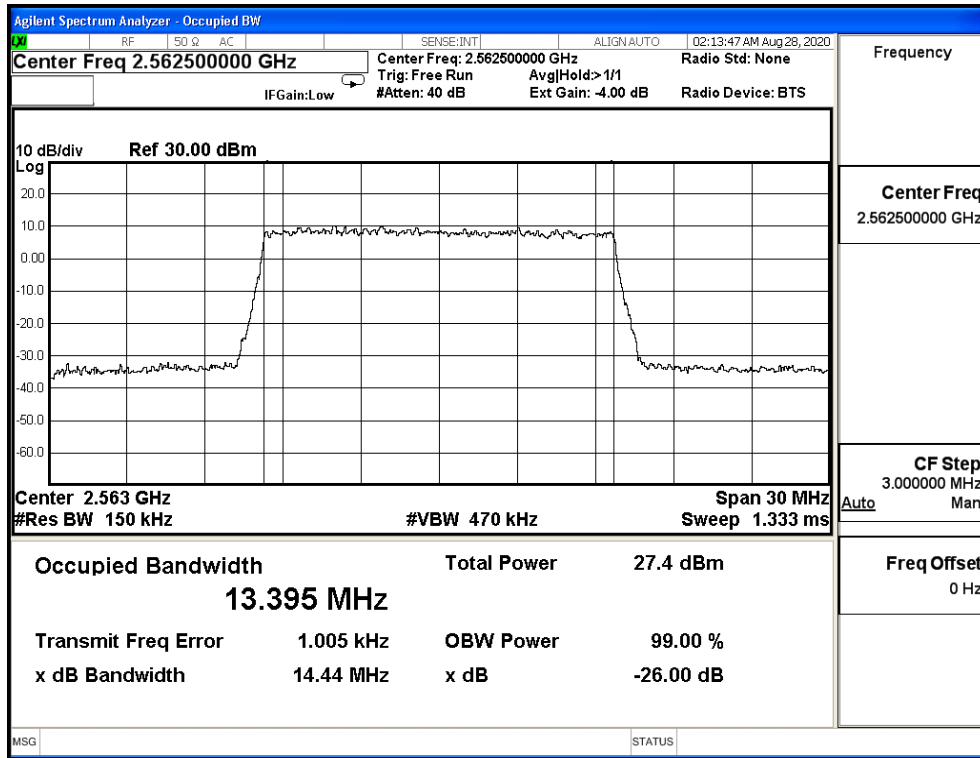
64QAM_CH20825_15M



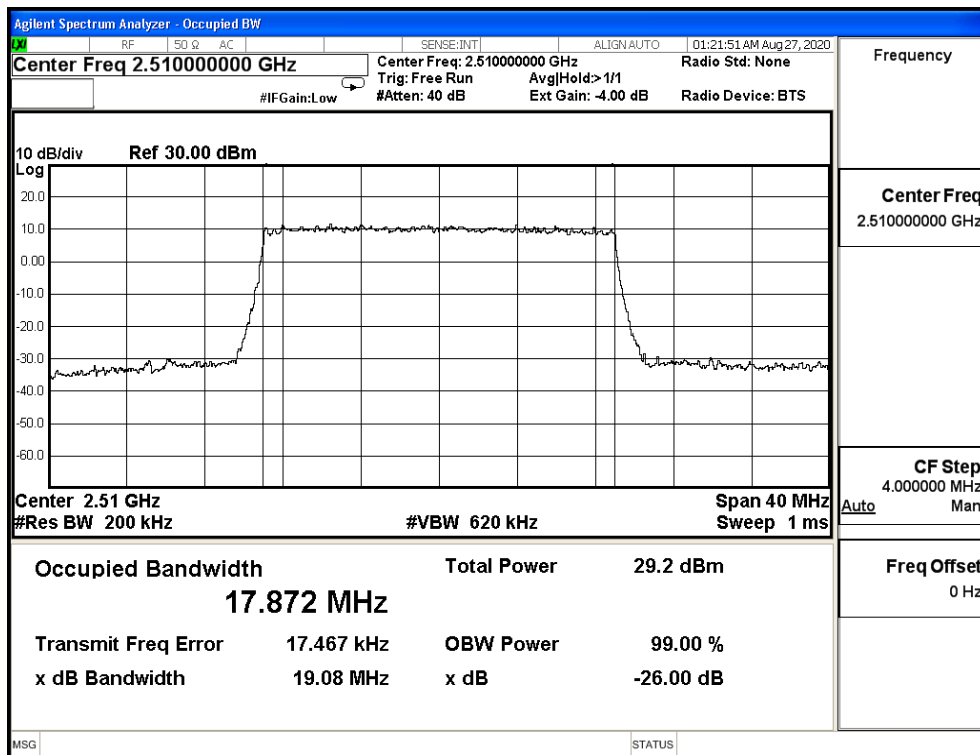
64QAM_CH21100_15M



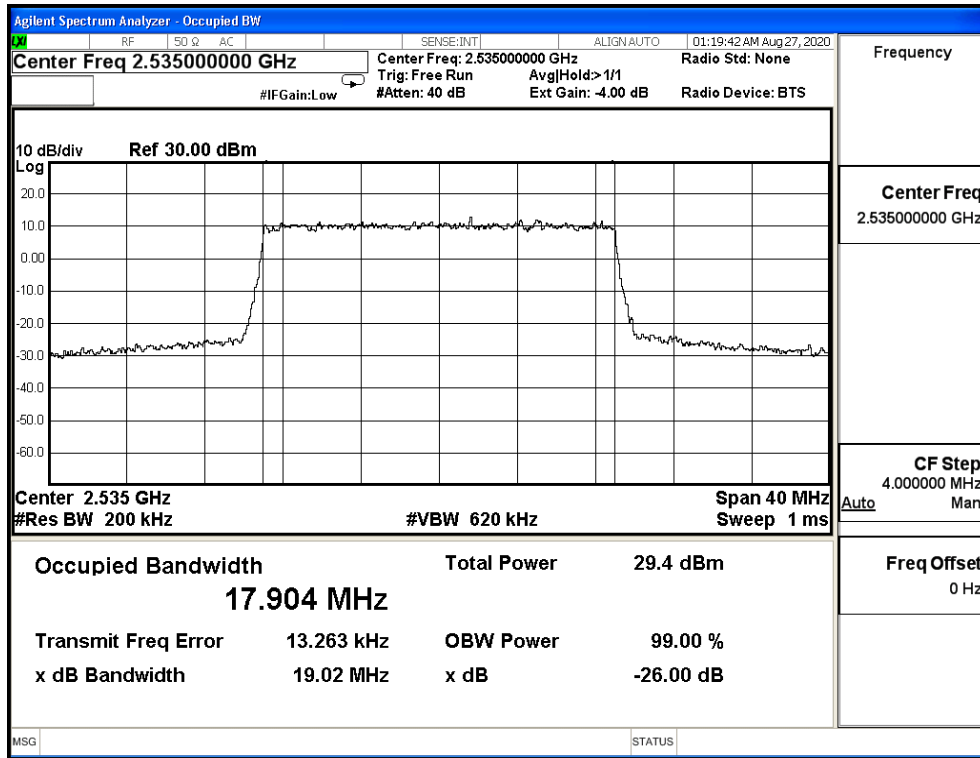
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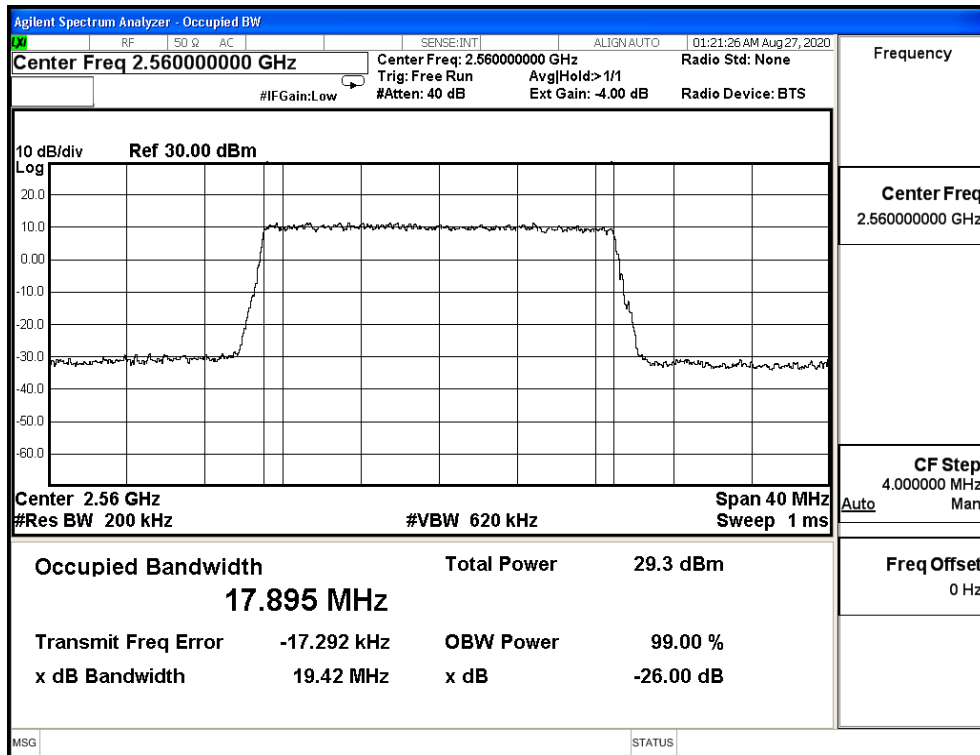
QPSK_CH20850_20M



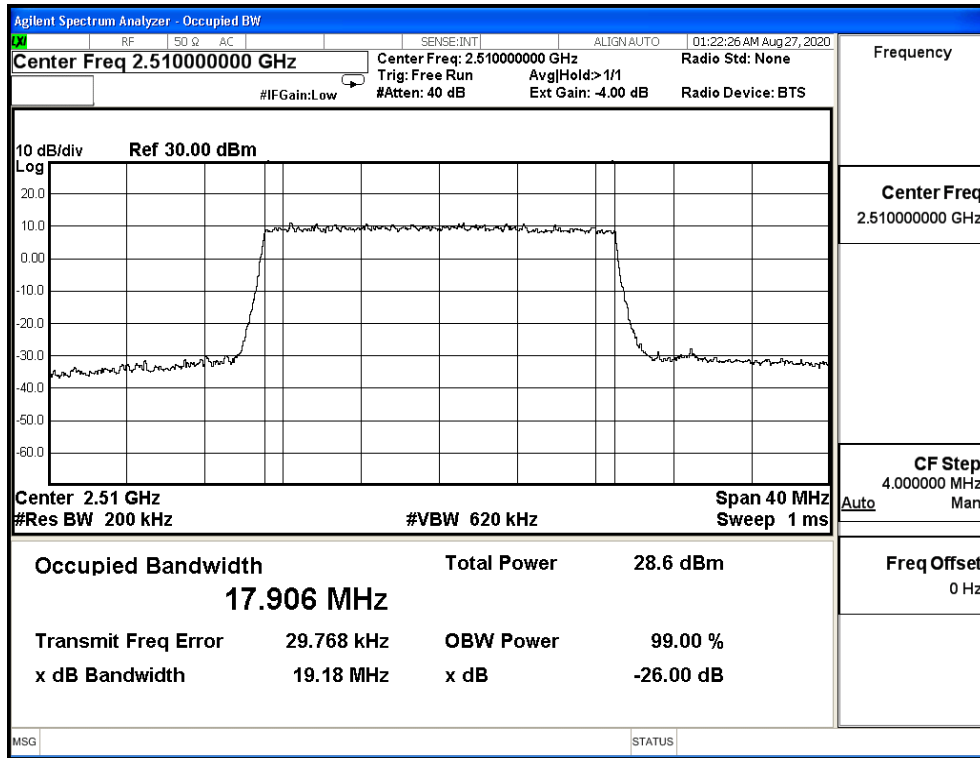
QPSK_CH21100_20M



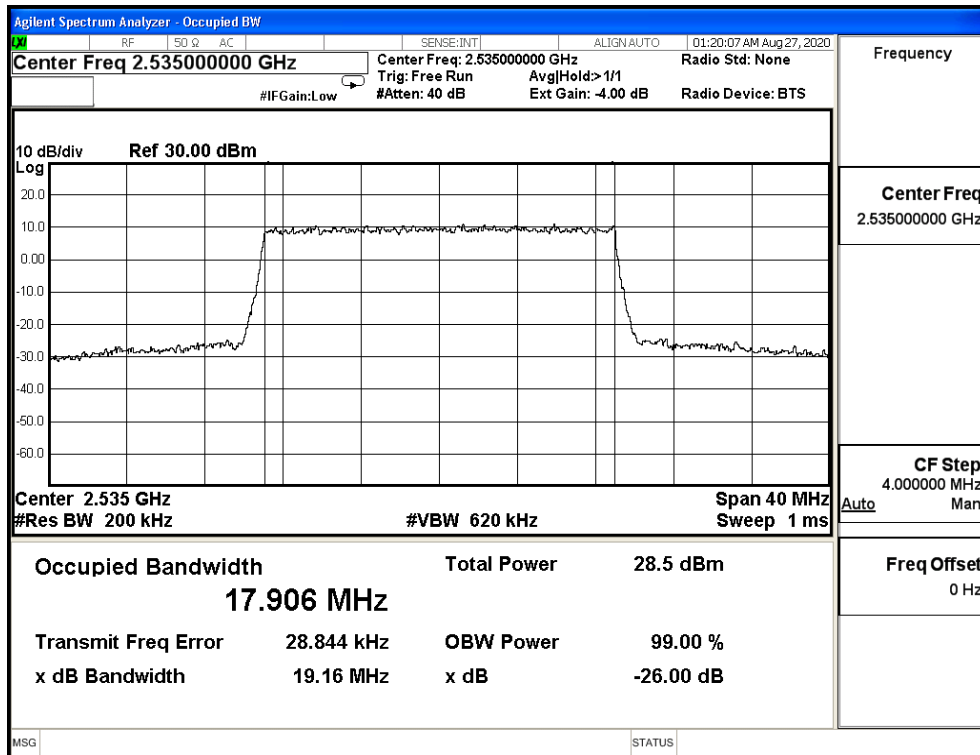
QPSK_CH21350_20M



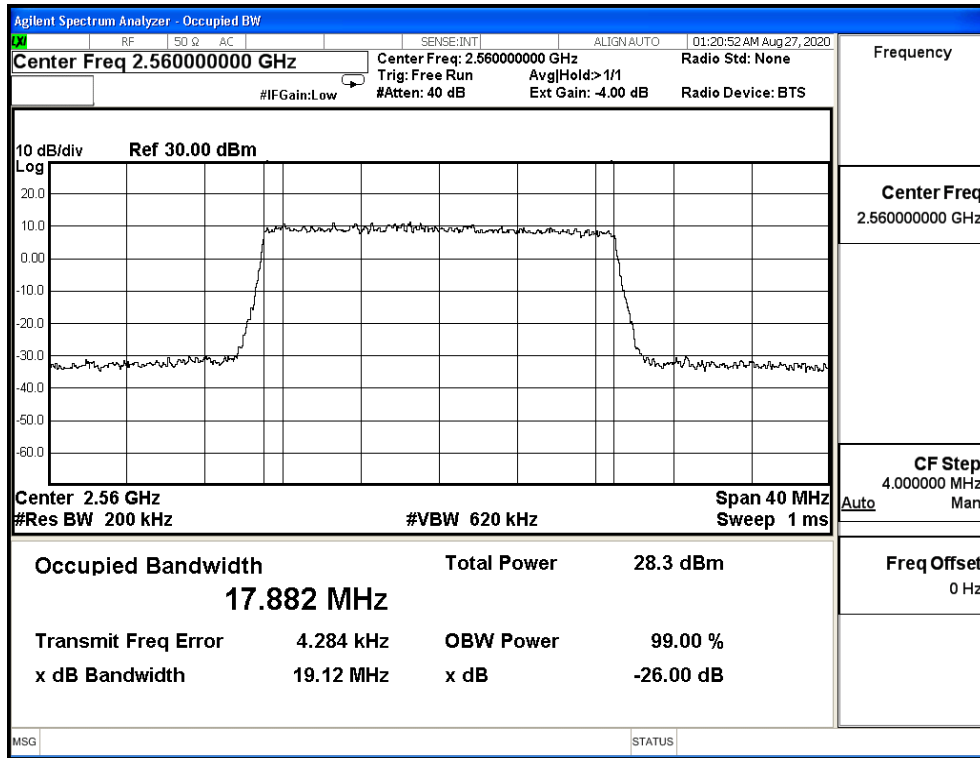
16QAM_CH20850_20M



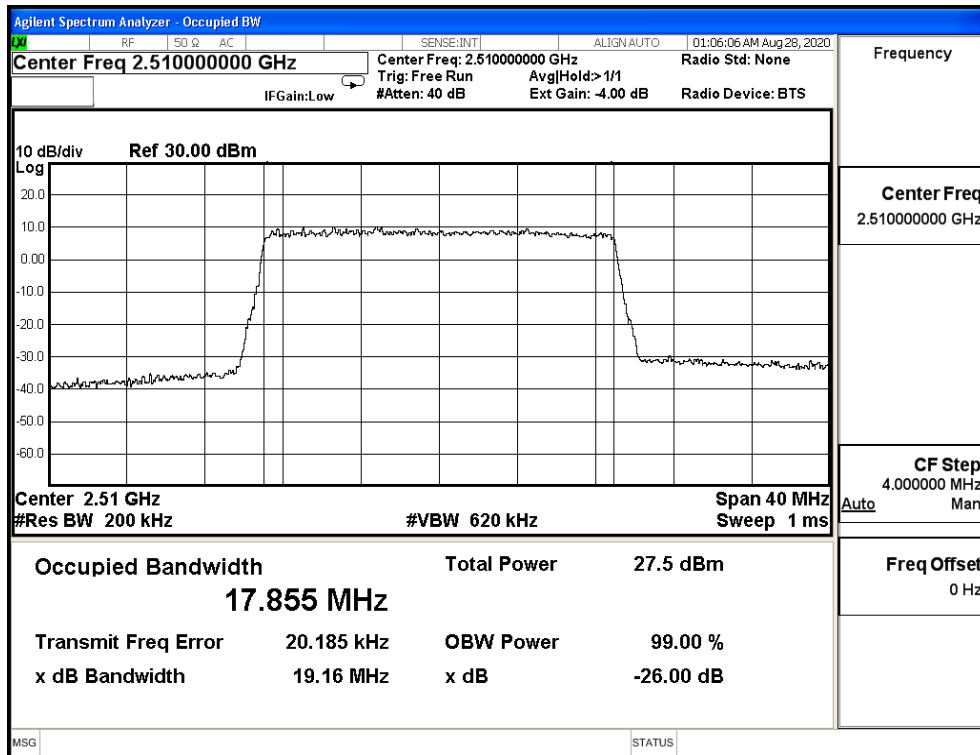
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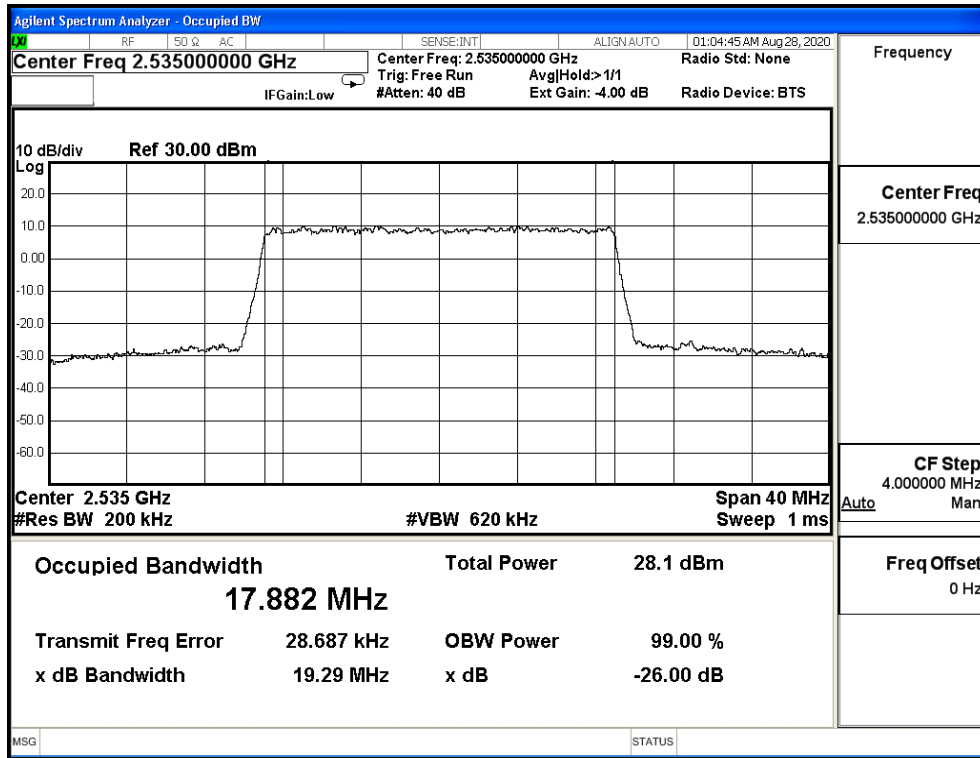
16QAM_CH21350_20M



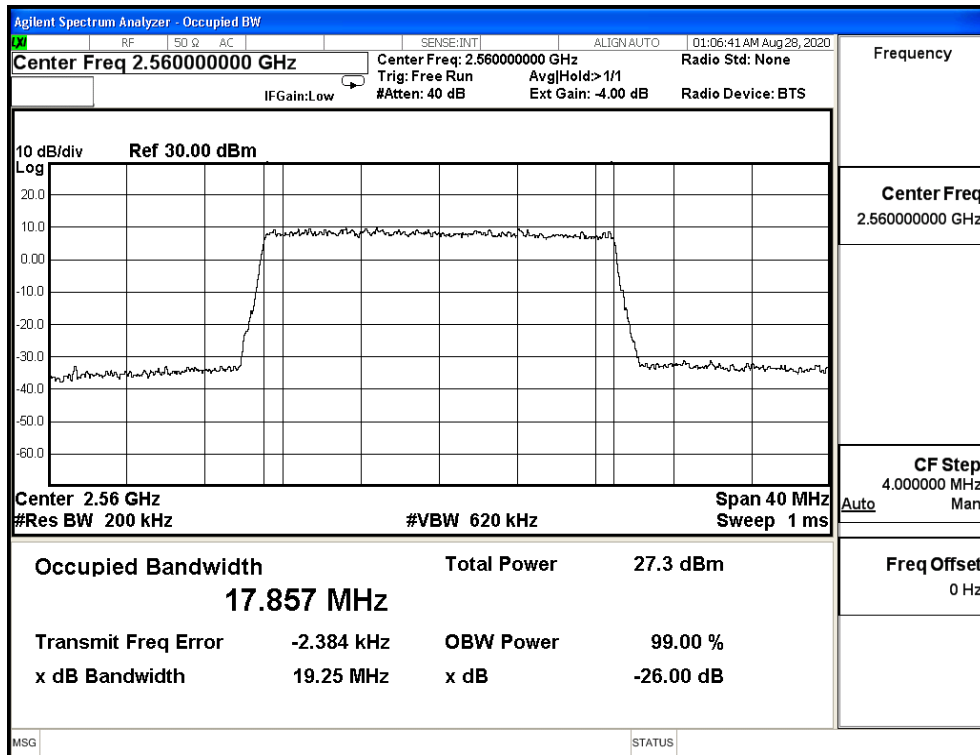
64QAM_CH20850_20M



64QAM_CH21100_20M



64QAM_CH21350_20M

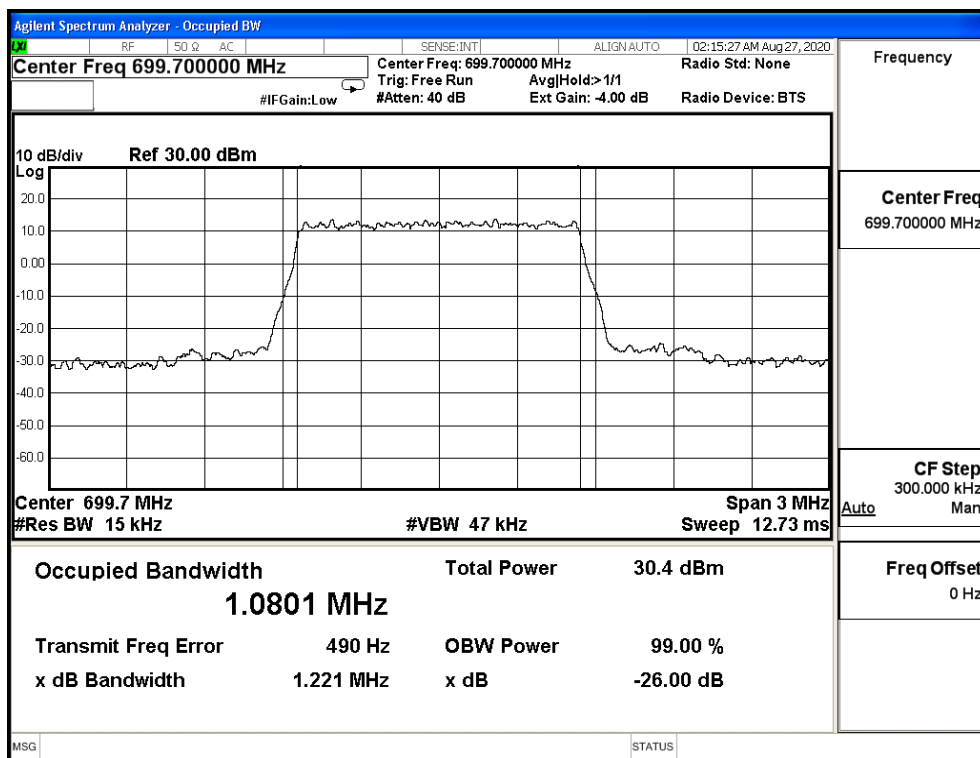


| | | | |
|-----------------|---------------------|----------------|--------|
| Product | Module | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 5: LTE Band 12 | | |
| Date of Test | 2020/09/02 | Test Site | SR12-H |
| Temperature(°C) | 24 | Humidity (%RH) | 60 |

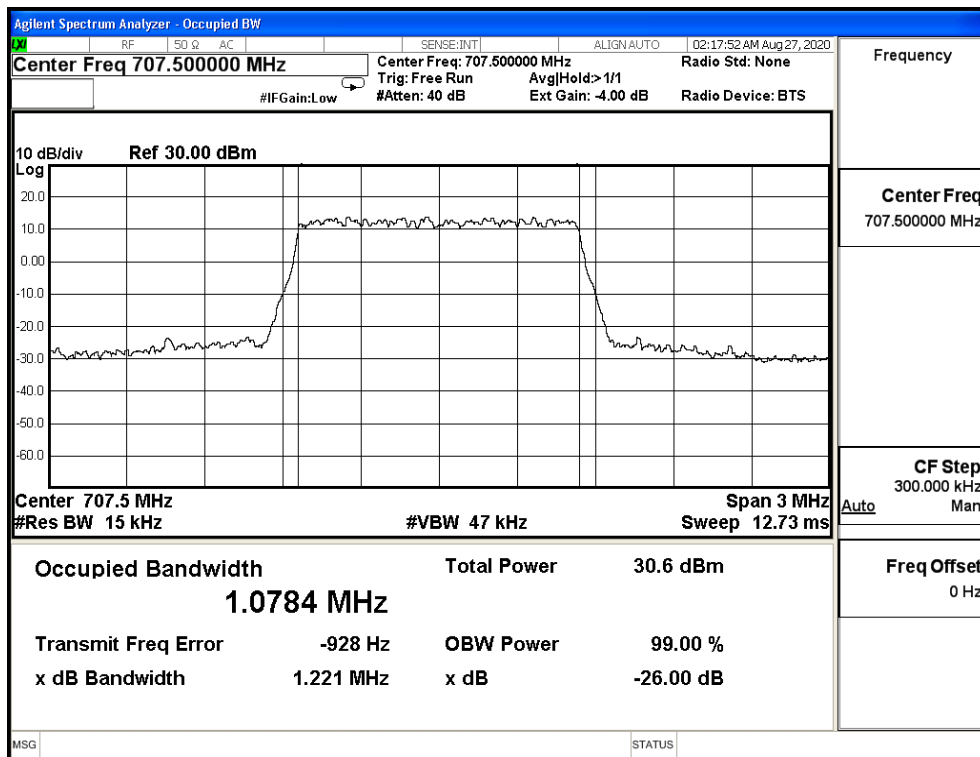
| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
|-----------------|------------|-----------------|---------------------|--------|-------------|
| | | | 26dB BW | 99% BW | |
| 1.4M | QPSK | 699.7 | 1.221 | 1.080 | N/A |
| | | 707.5 | 1.221 | 1.078 | N/A |
| | | 715.3 | 1.209 | 1.086 | N/A |
| | 16-QAM | 699.7 | 1.200 | 1.079 | N/A |
| | | 707.5 | 1.224 | 1.082 | N/A |
| | | 715.3 | 1.222 | 1.081 | N/A |
| | 64-QAM | 699.7 | 1.211 | 1.079 | N/A |
| | | 707.5 | 1.212 | 1.079 | N/A |
| | | 715.3 | 1.210 | 1.079 | N/A |
| 3M | QPSK | 700.5 | 2.928 | 2.690 | N/A |
| | | 707.5 | 2.937 | 2.686 | N/A |
| | | 714.5 | 2.941 | 2.684 | N/A |
| | 16-QAM | 700.5 | 2.950 | 2.685 | N/A |
| | | 707.5 | 2.953 | 2.683 | N/A |
| | | 714.5 | 2.938 | 2.681 | N/A |
| | 64-QAM | 700.5 | 2.916 | 2.683 | N/A |
| | | 707.5 | 2.912 | 2.684 | N/A |
| | | 714.5 | 2.906 | 2.681 | N/A |
| 5M | QPSK | 710.5 | 4.883 | 4.462 | N/A |
| | | 707.5 | 4.877 | 4.481 | N/A |
| | | 713.5 | 4.886 | 4.471 | N/A |
| | 16-QAM | 710.5 | 4.911 | 4.477 | N/A |
| | | 707.5 | 4.897 | 4.481 | N/A |
| | | 713.5 | 4.833 | 4.464 | N/A |
| | 64-QAM | 710.5 | 4.880 | 4.478 | N/A |
| | | 707.5 | 4.890 | 4.479 | N/A |
| | | 713.5 | 4.869 | 4.476 | N/A |

| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
|-----------------|------------|-----------------|---------------------|--------|-------------|
| | | | 26dB BW | 99% BW | |
| 10M | QPSK | 704.0 | 9.587 | 8.910 | N/A |
| | | 707.5 | 9.708 | 8.944 | N/A |
| | | 711.0 | 9.675 | 8.955 | N/A |
| | 16-QAM | 704.0 | 9.578 | 8.920 | N/A |
| | | 707.5 | 9.615 | 8.935 | N/A |
| | | 711.0 | 9.674 | 8.953 | N/A |
| | 64-QAM | 704.0 | 9.566 | 8.912 | N/A |
| | | 707.5 | 9.577 | 8.925 | N/A |
| | | 711.0 | 9.627 | 8.943 | N/A |

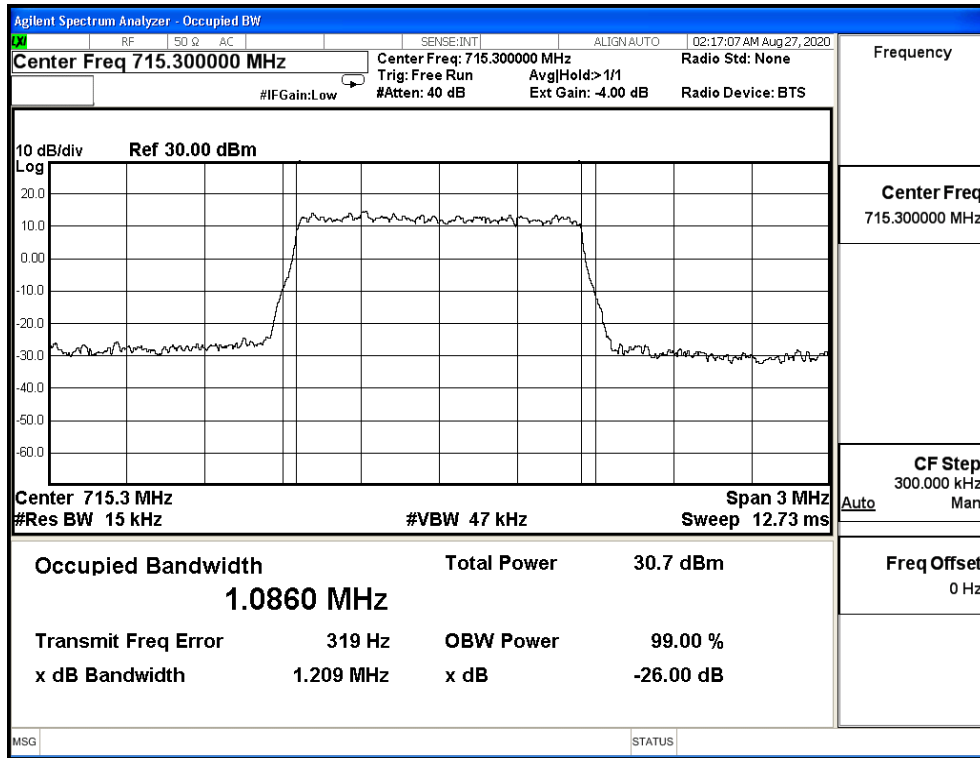
QPSK_CH23017_1.4M



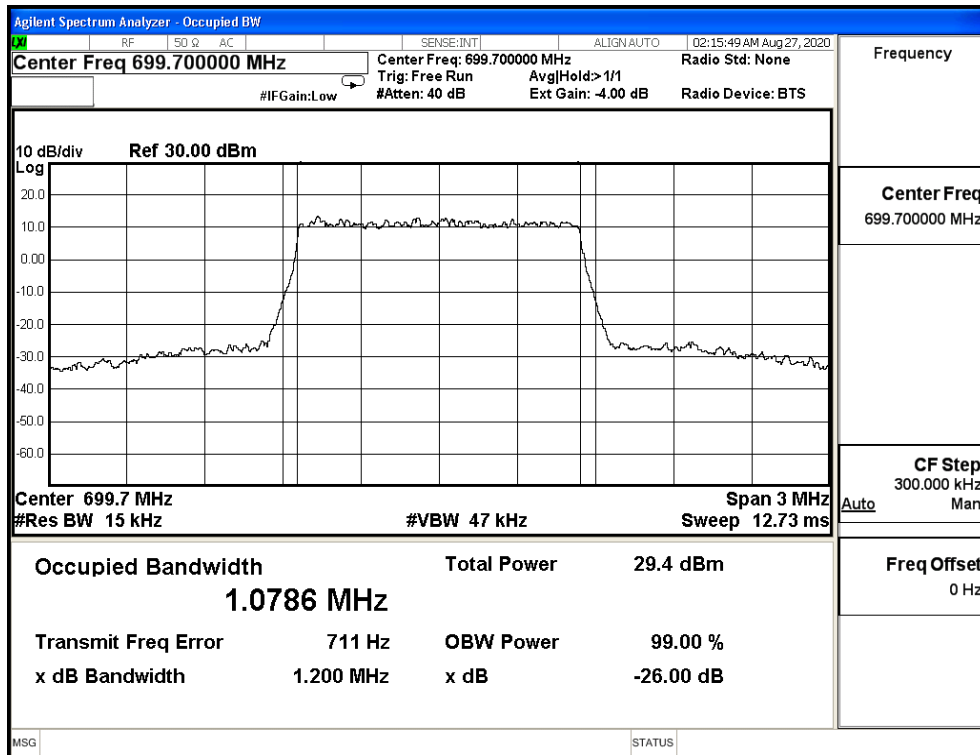
QPSK_CH23095_1.4M



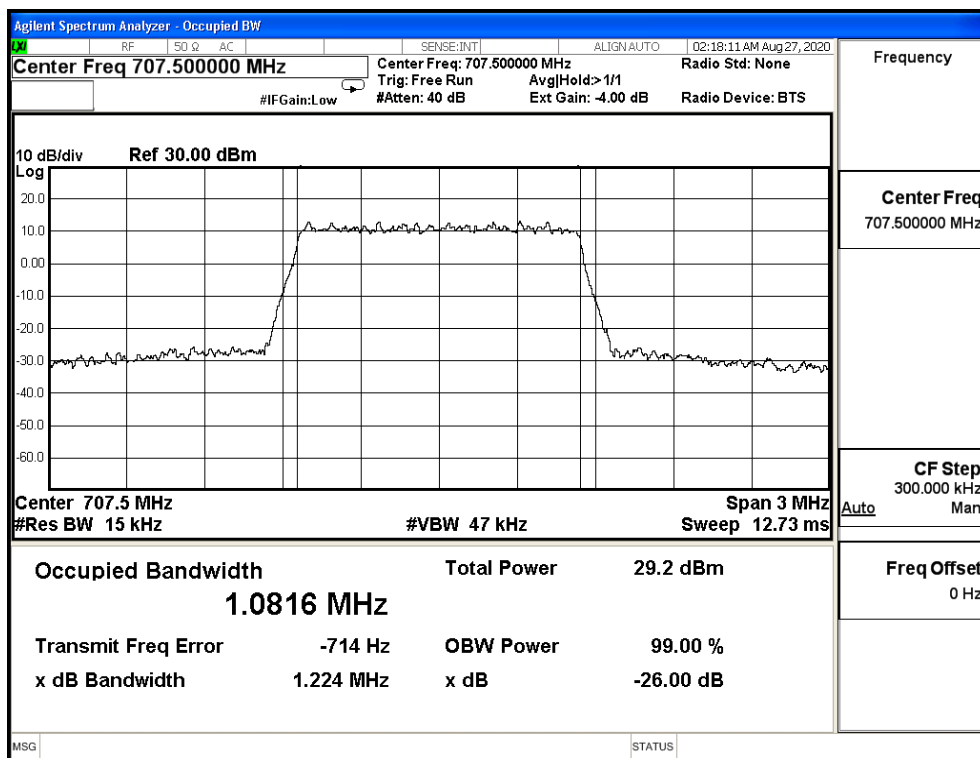
QPSK_CH23173_1.4M



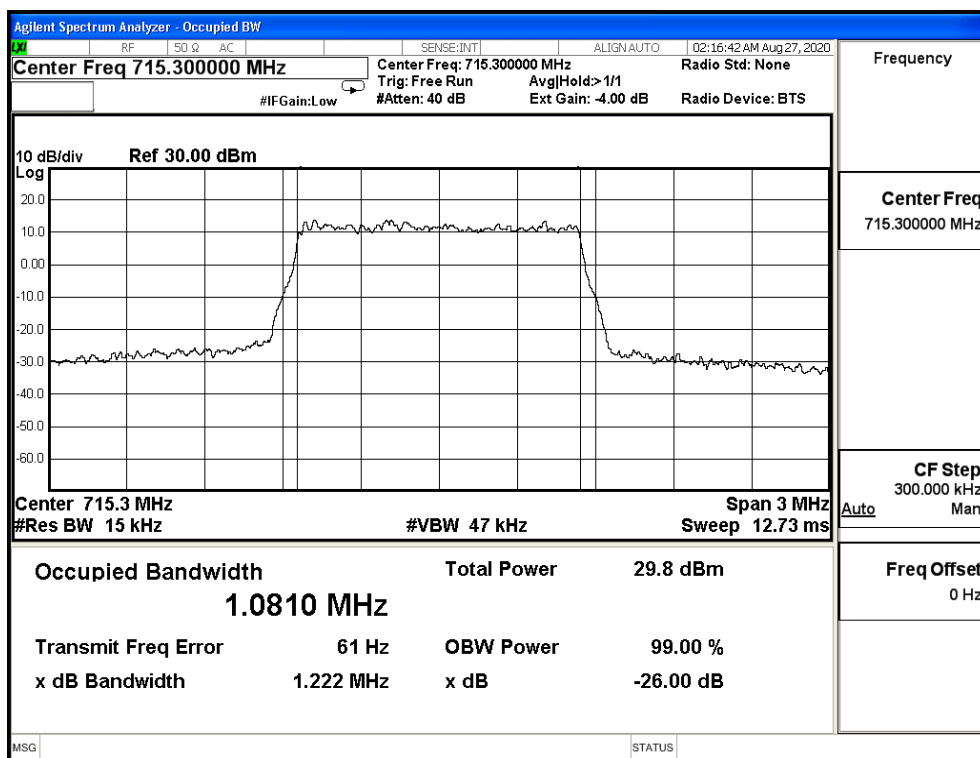
16QAM_CH23017_1.4M



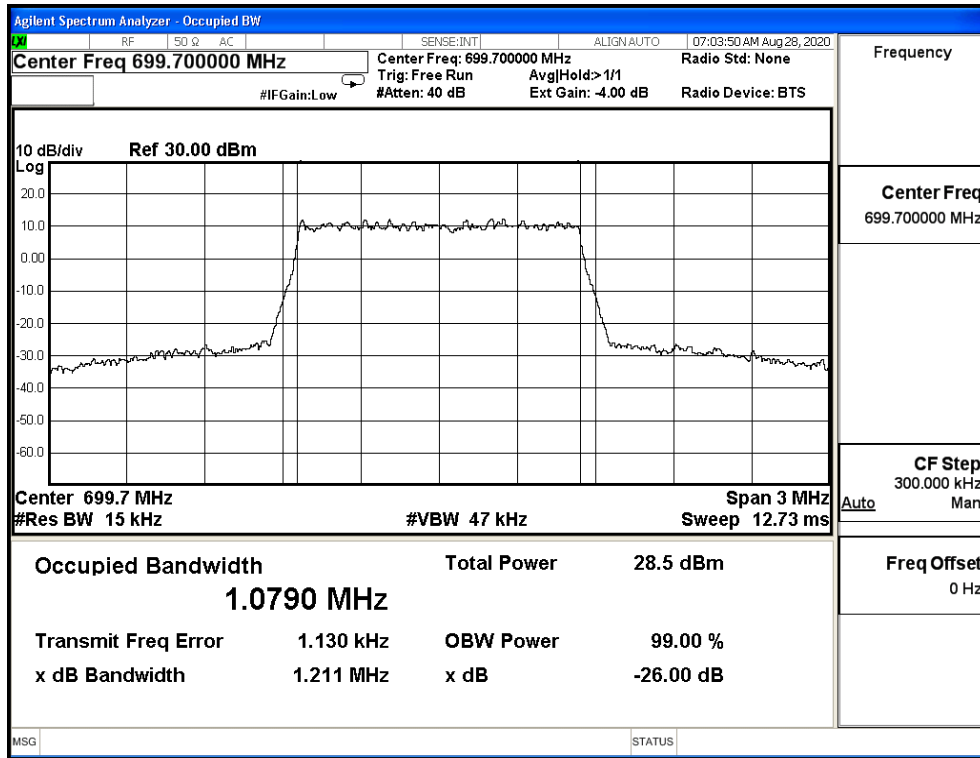
16QAM_CH23095_1.0M



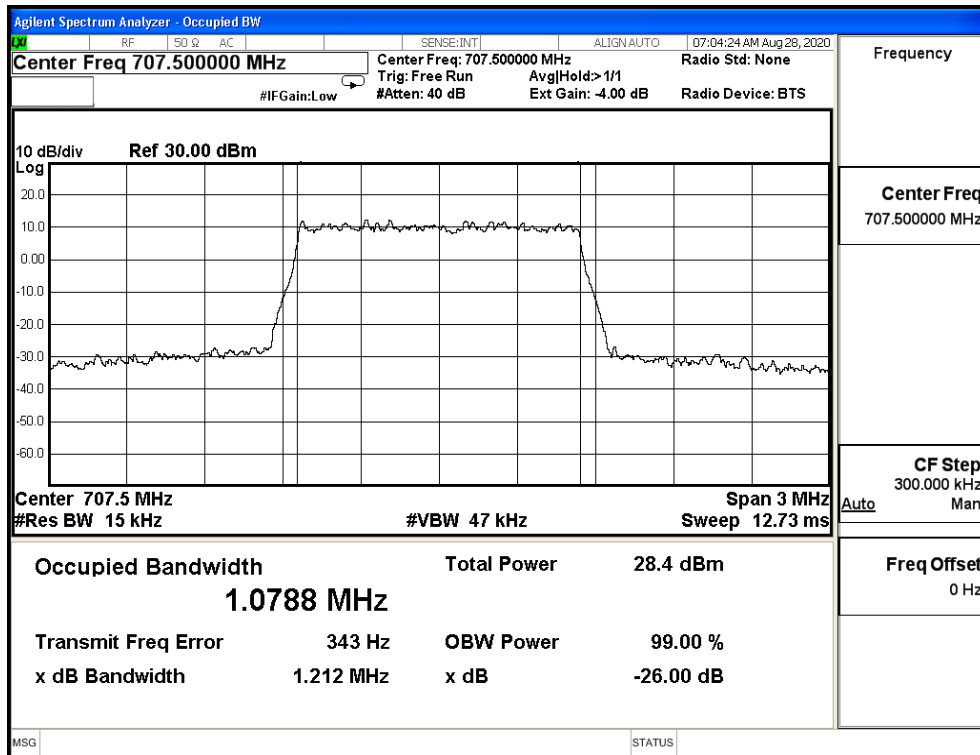
16QAM_CH23173_1.4M



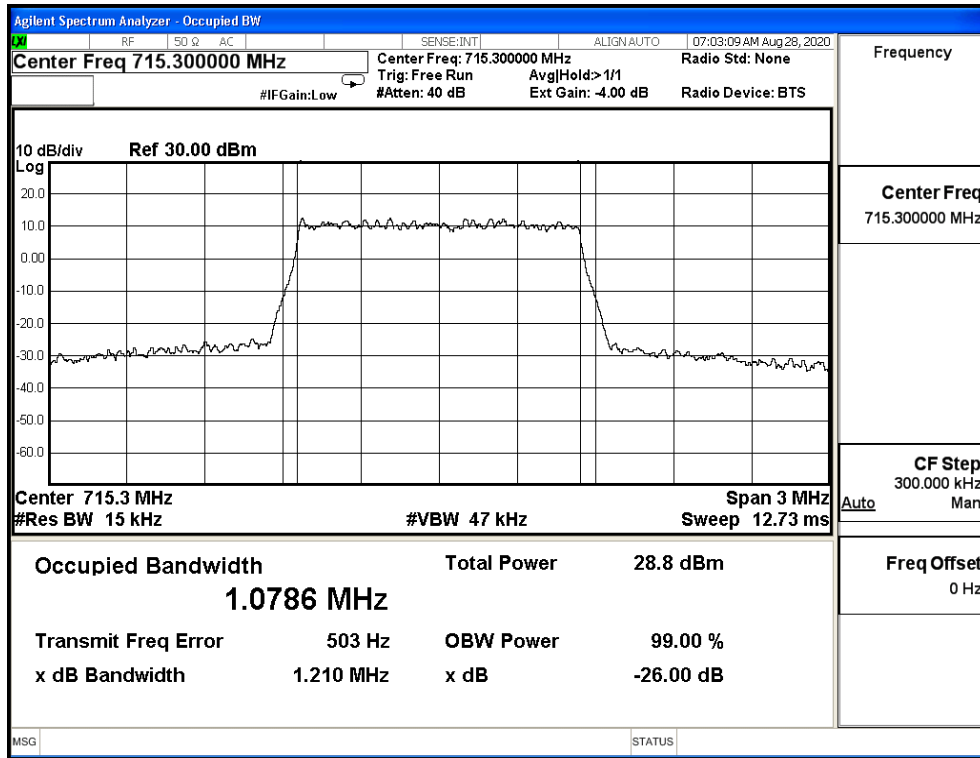
64QAM_CH23017_1.4M



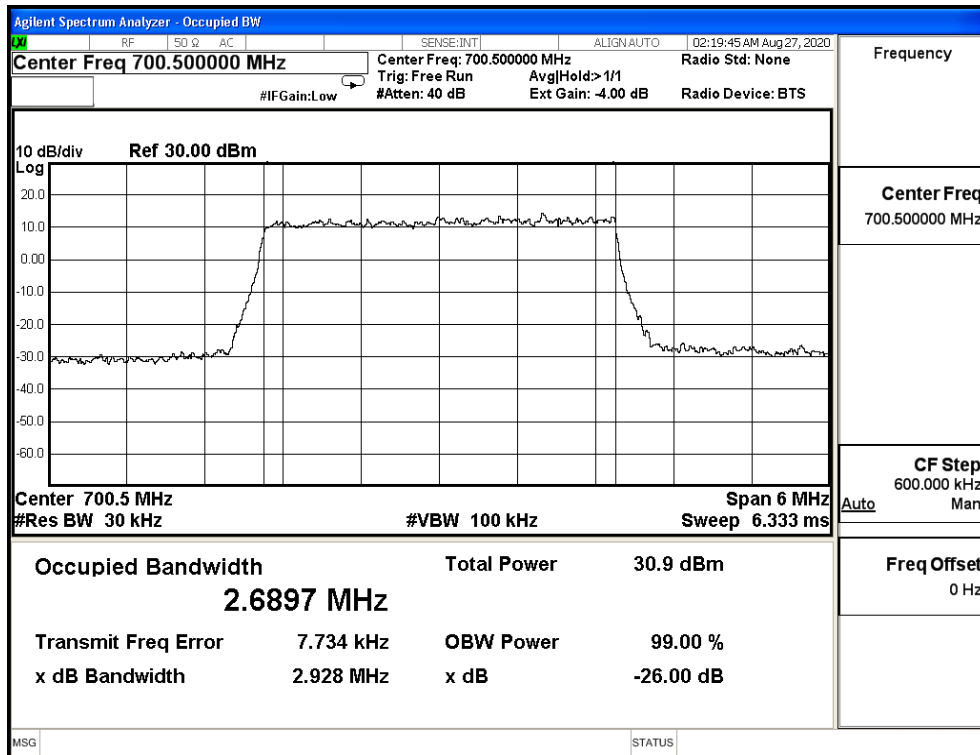
64QAM_CH23095_1.4M



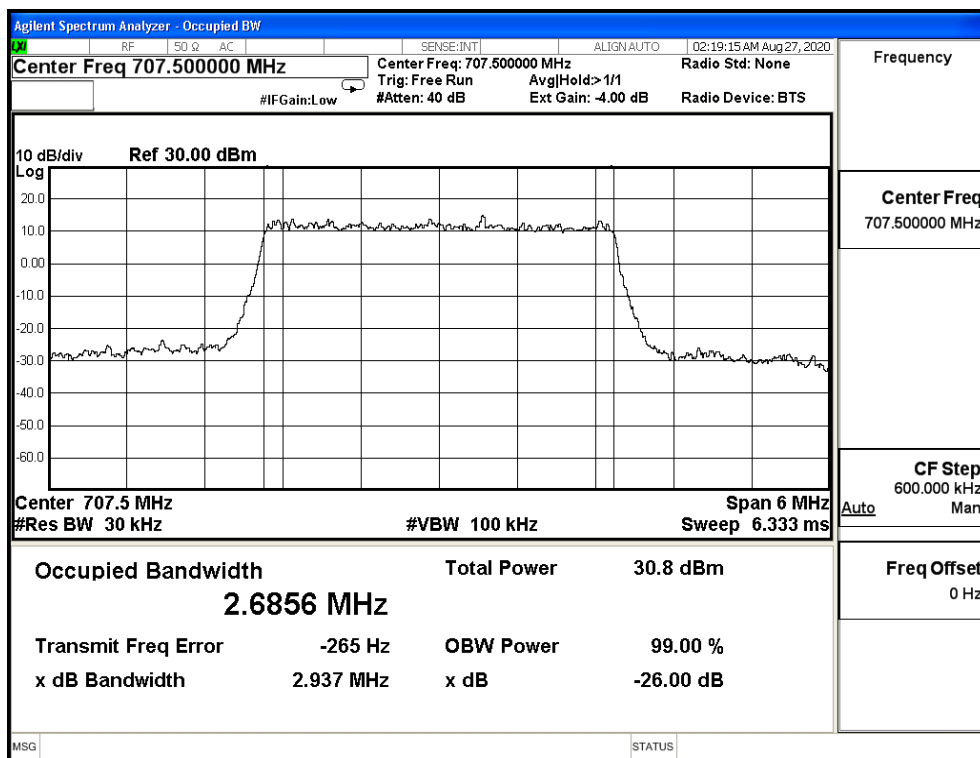
64QAM_CH23173_1.4M



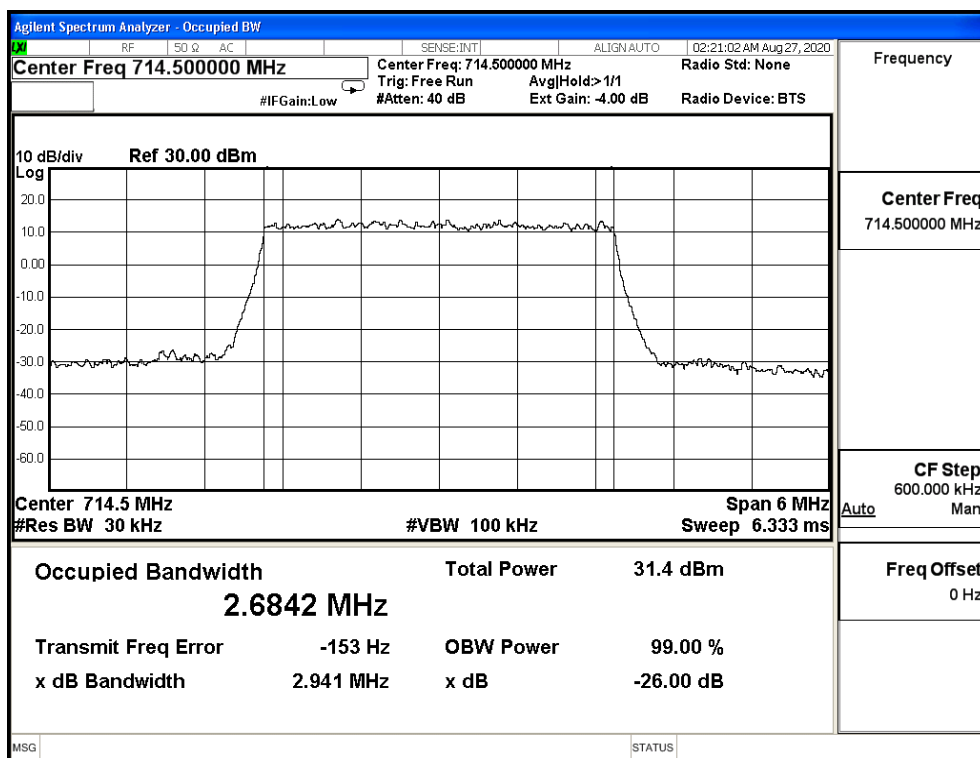
QPSK_CH23025_3M



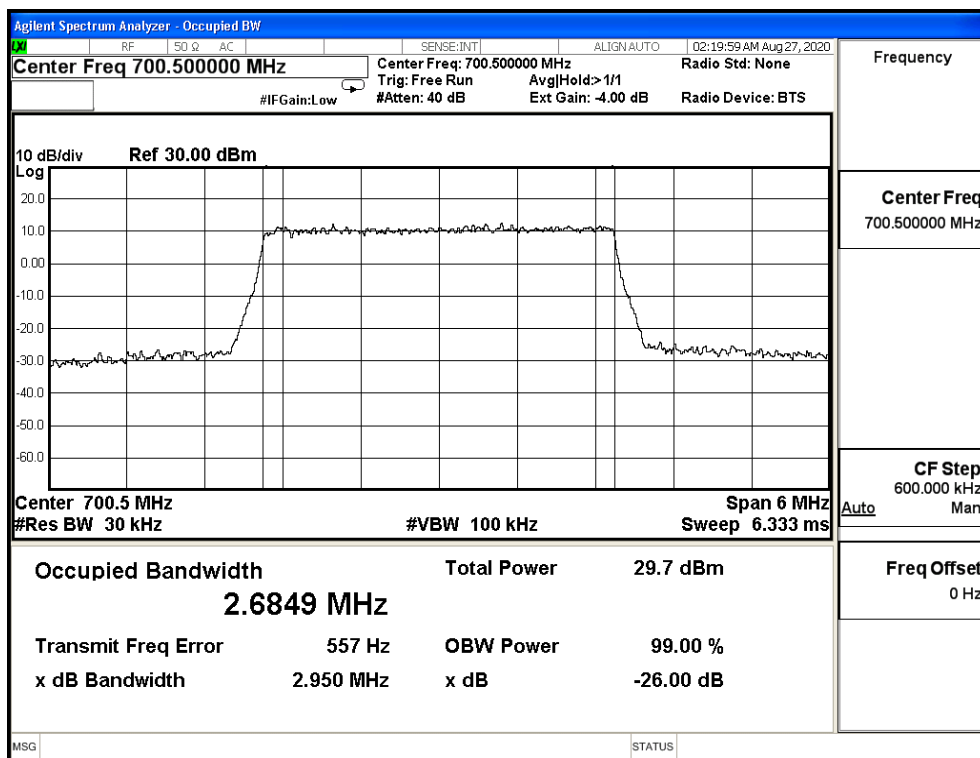
QPSK_CH23095_3M



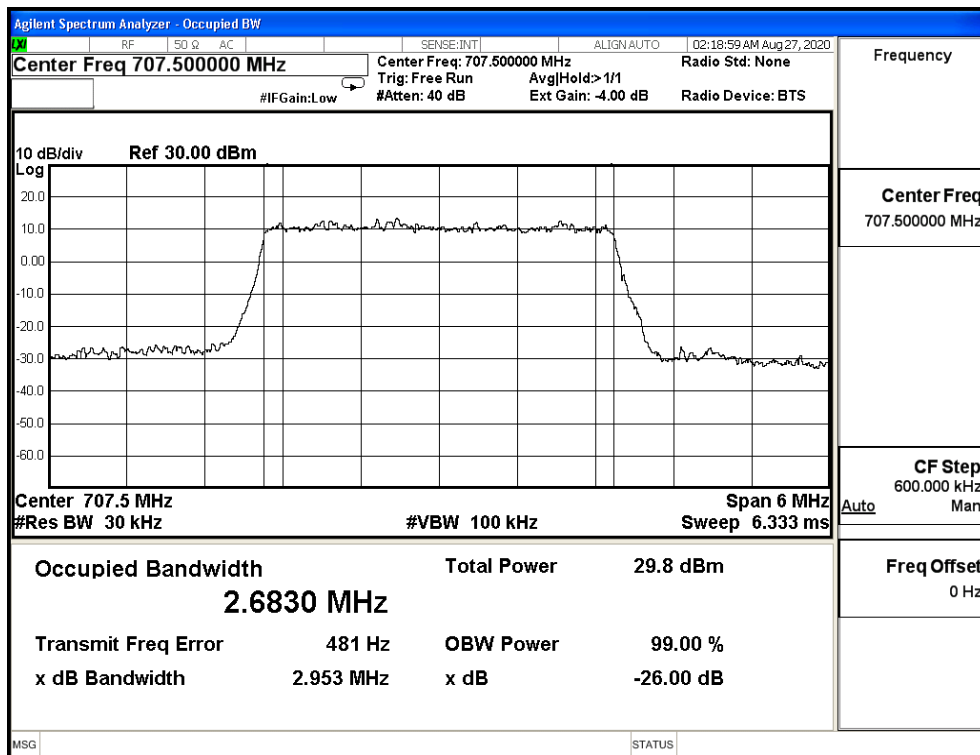
QPSK_CH23165_3M



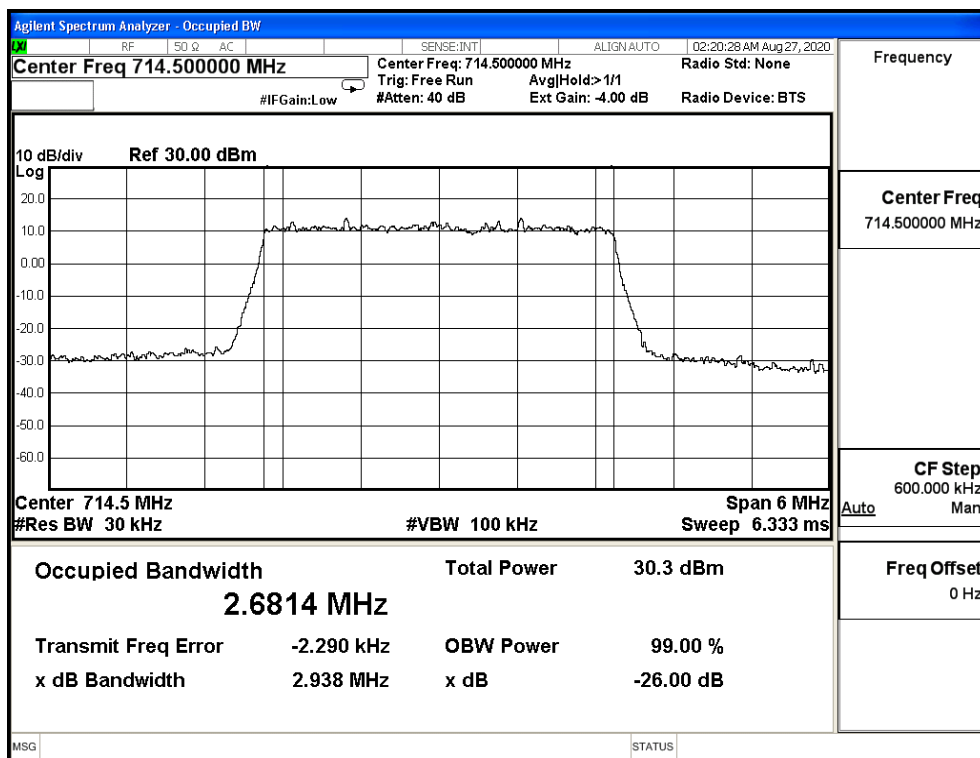
16QAM_CH23025_3M



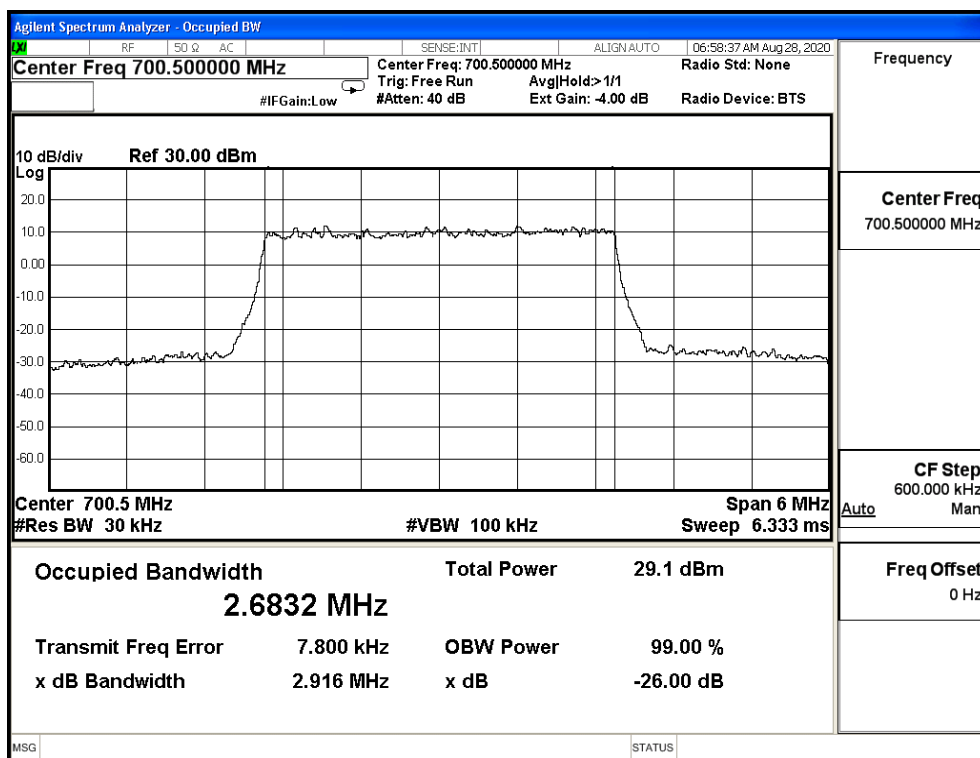
16QAM_CH23095_3M



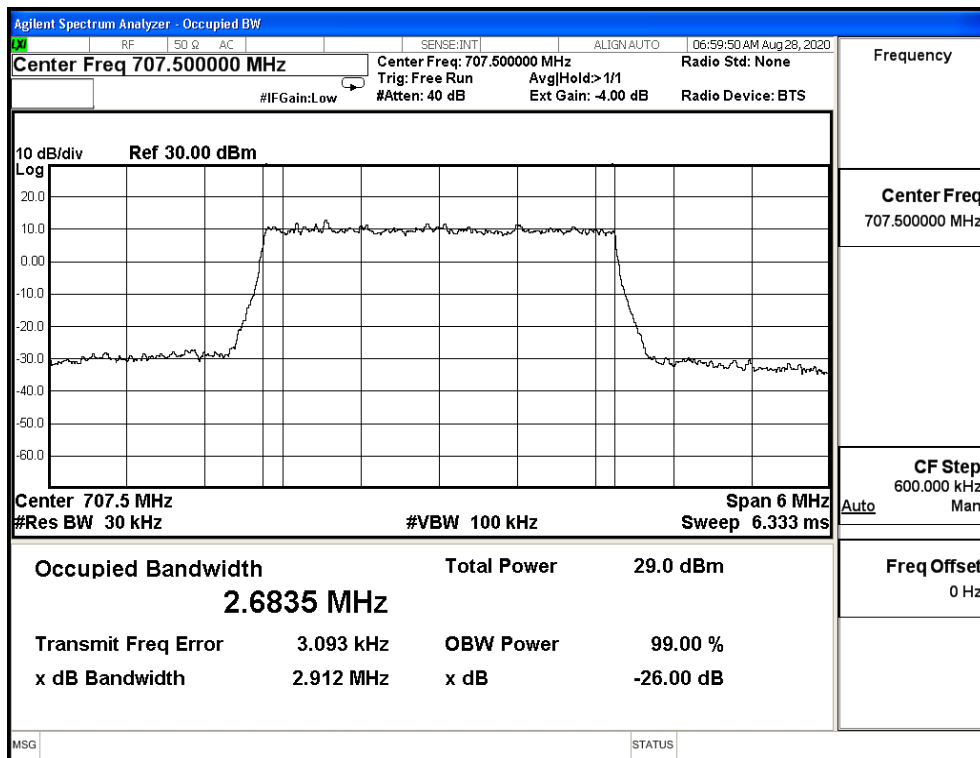
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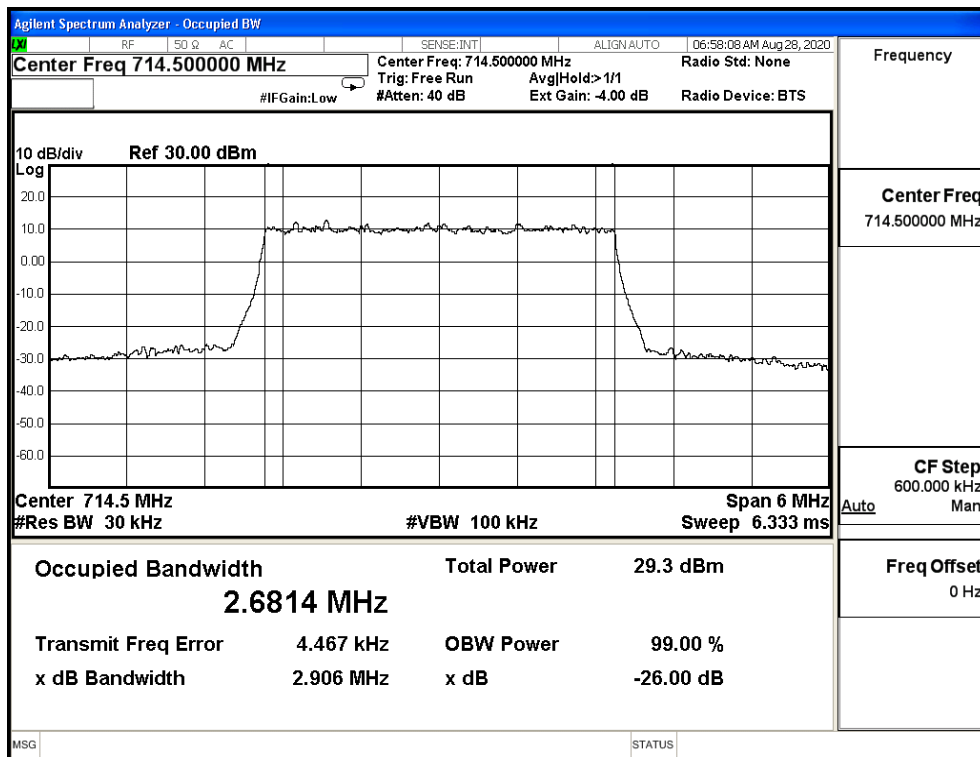
64QAM_CH23025_3M



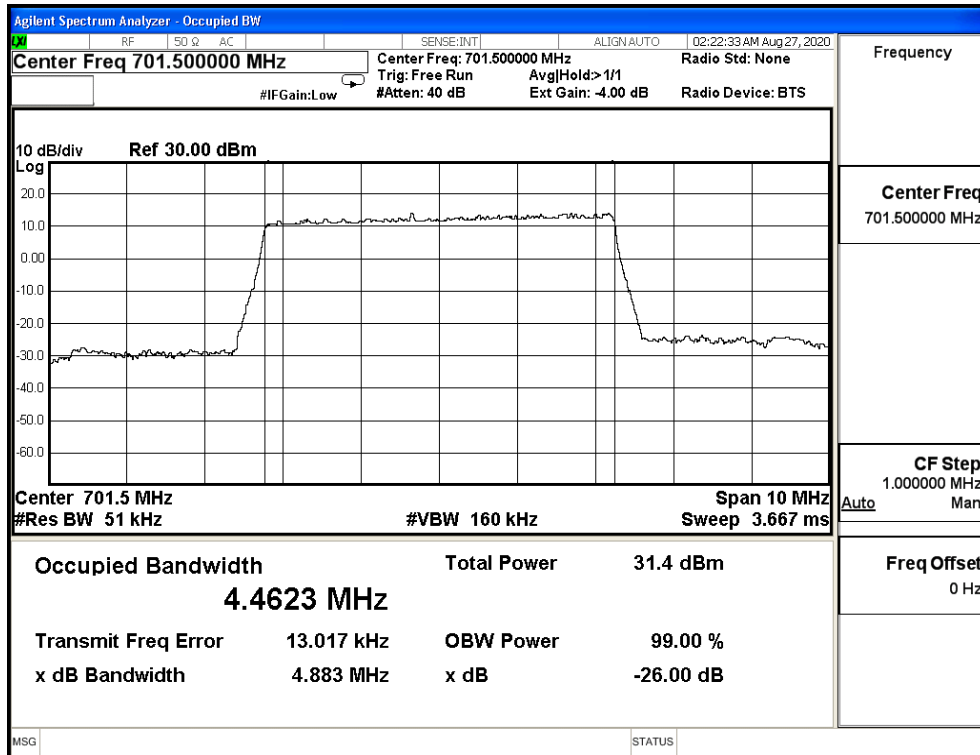
64QAM_CH23095_3M



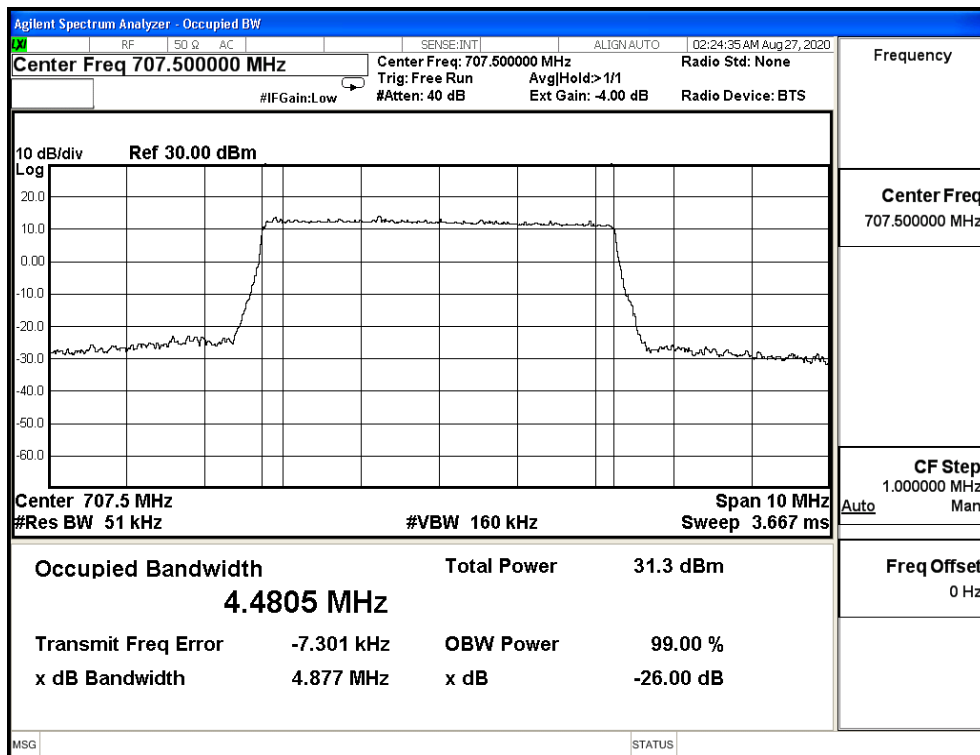
64QAM_CH23165_3M



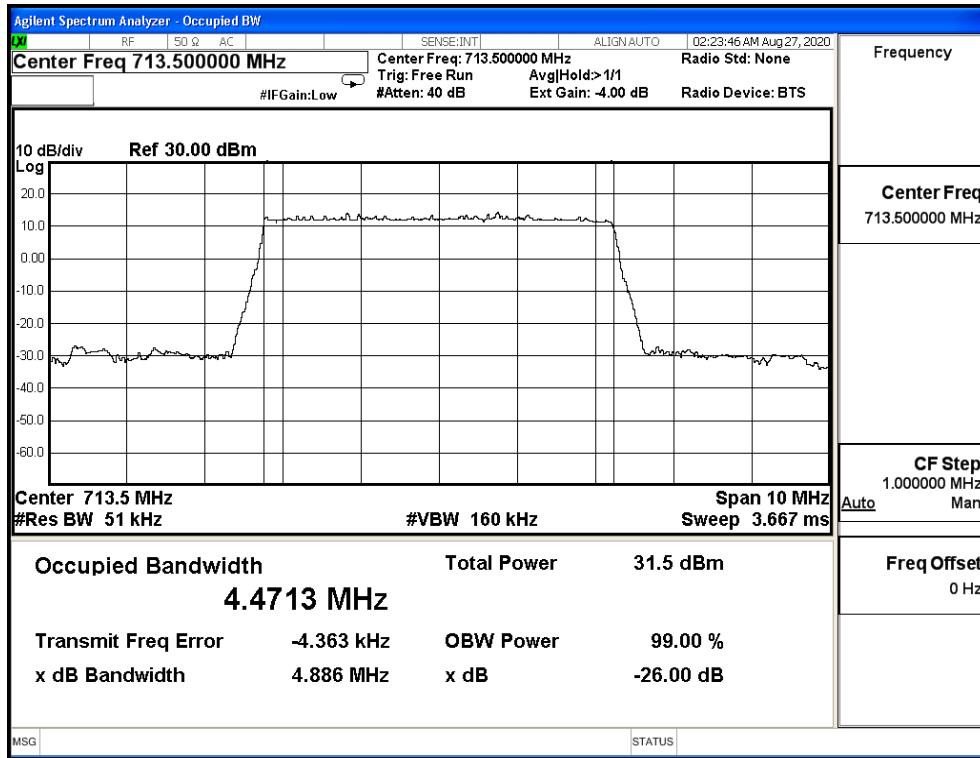
QPSK_CH23035_5M



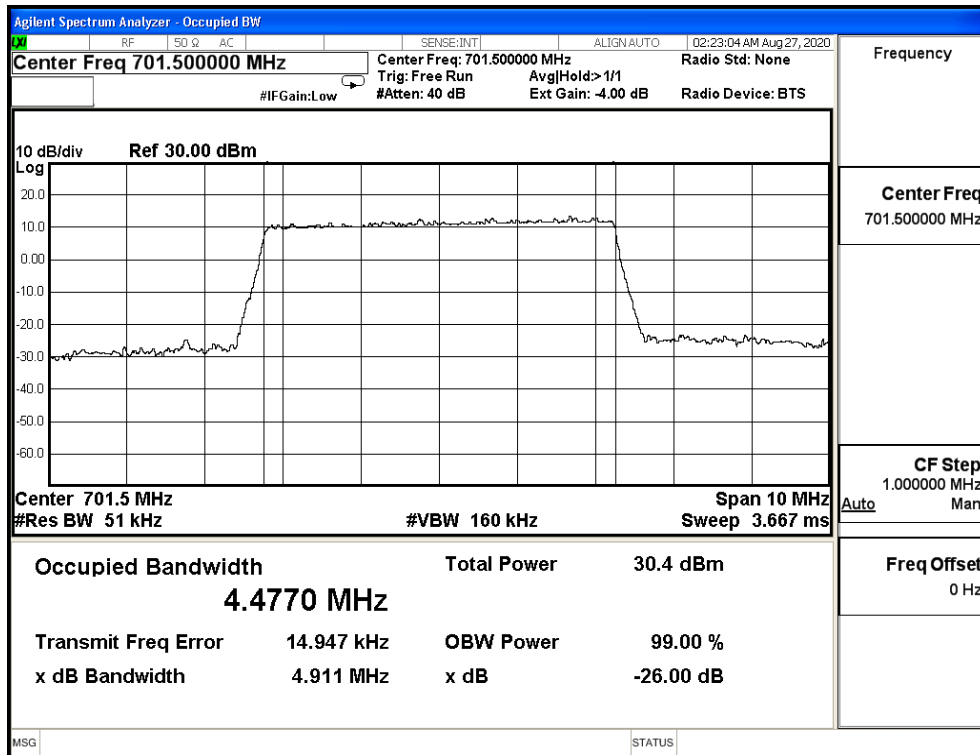
QPSK_CH23095_5M



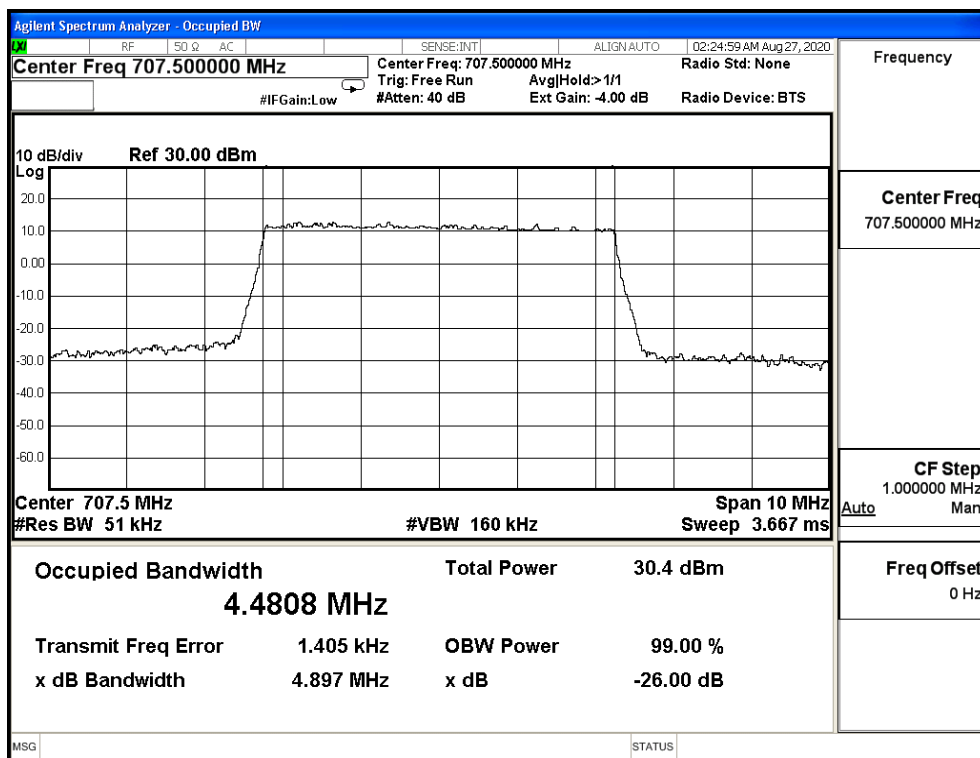
QPSK_CH23155_5M



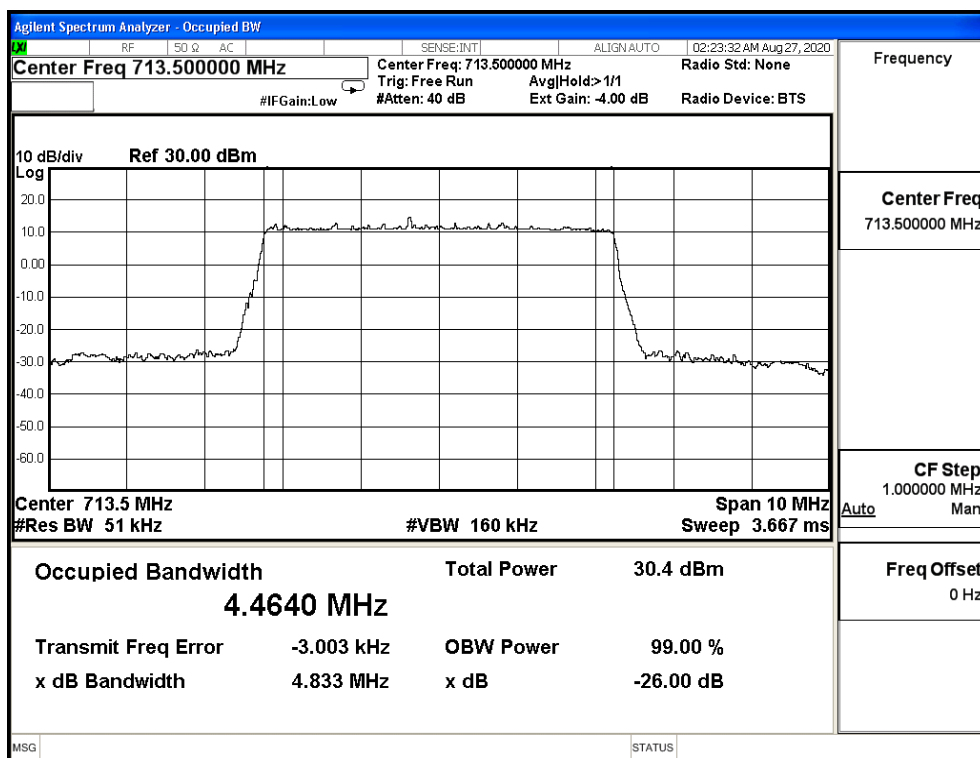
16QAM_CH23035_5M



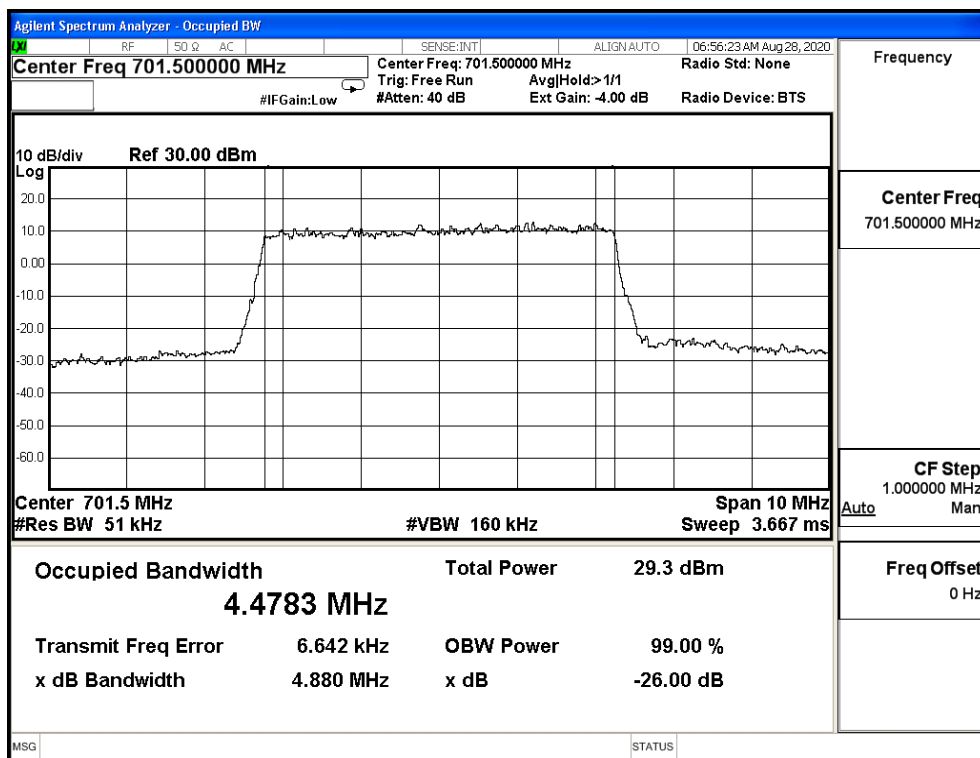
16QAM_CH23095_5M



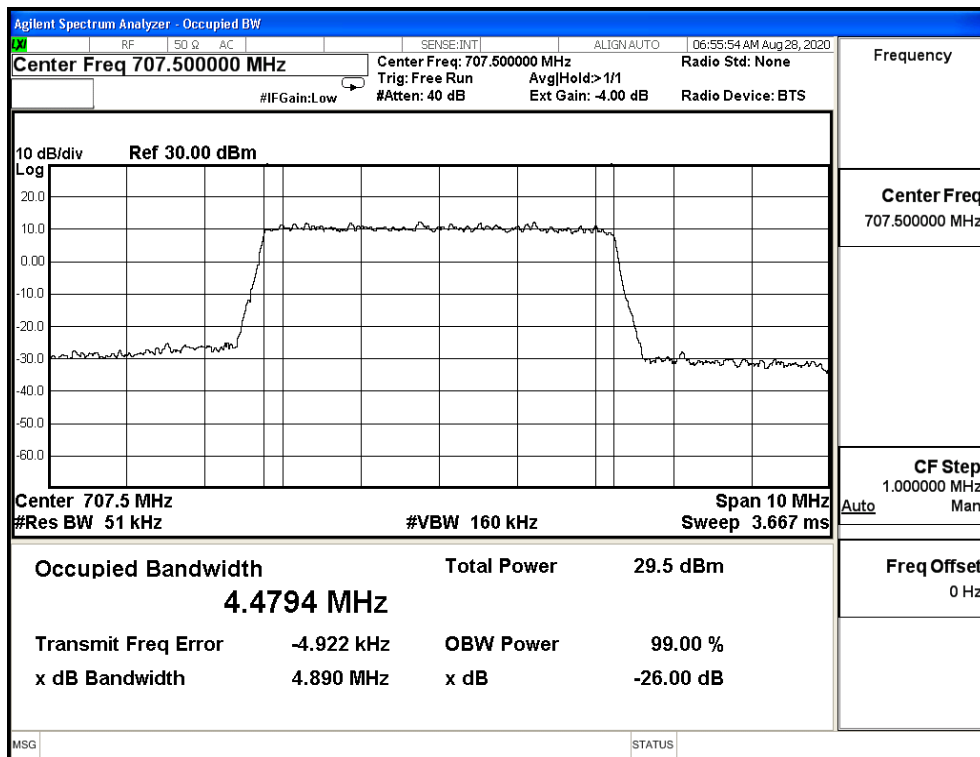
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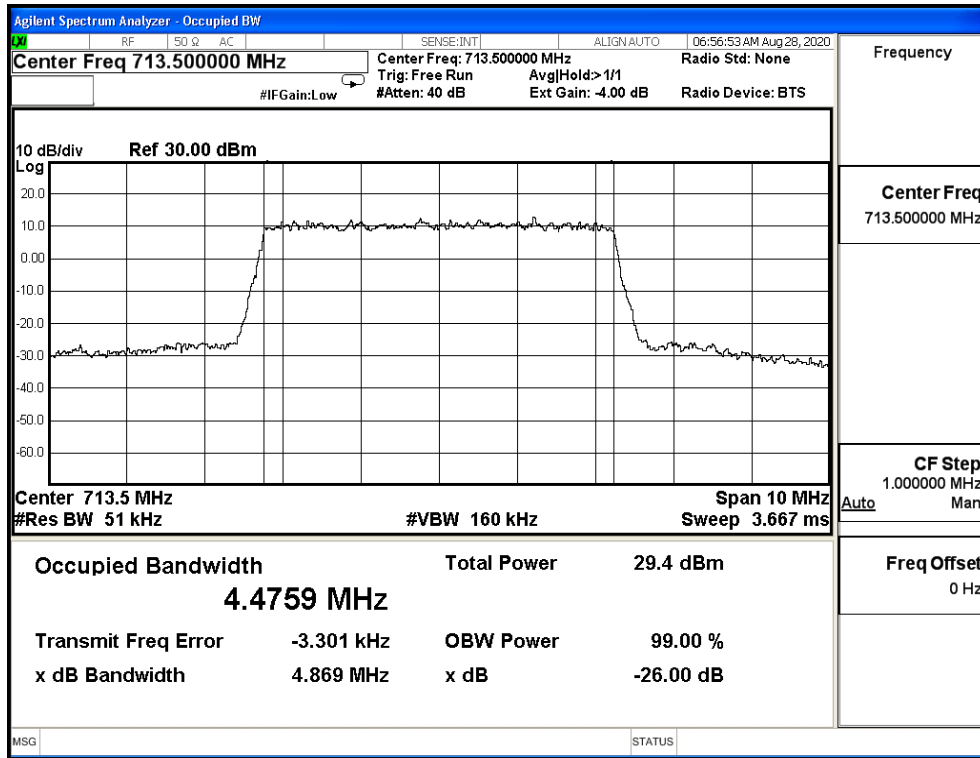
64QAM_CH23035_5M



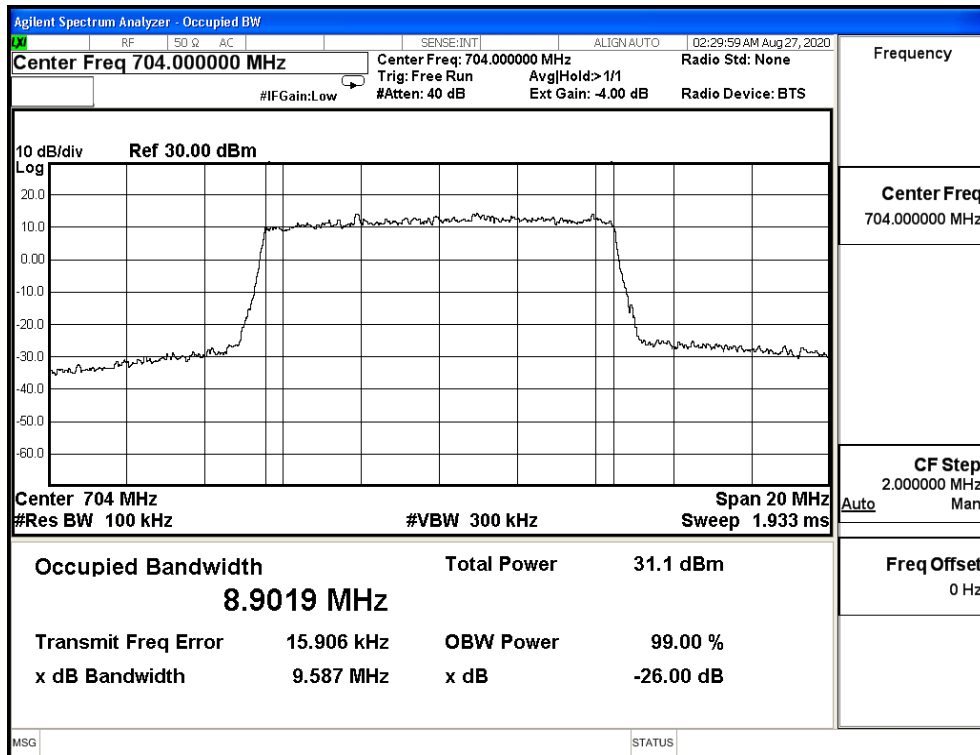
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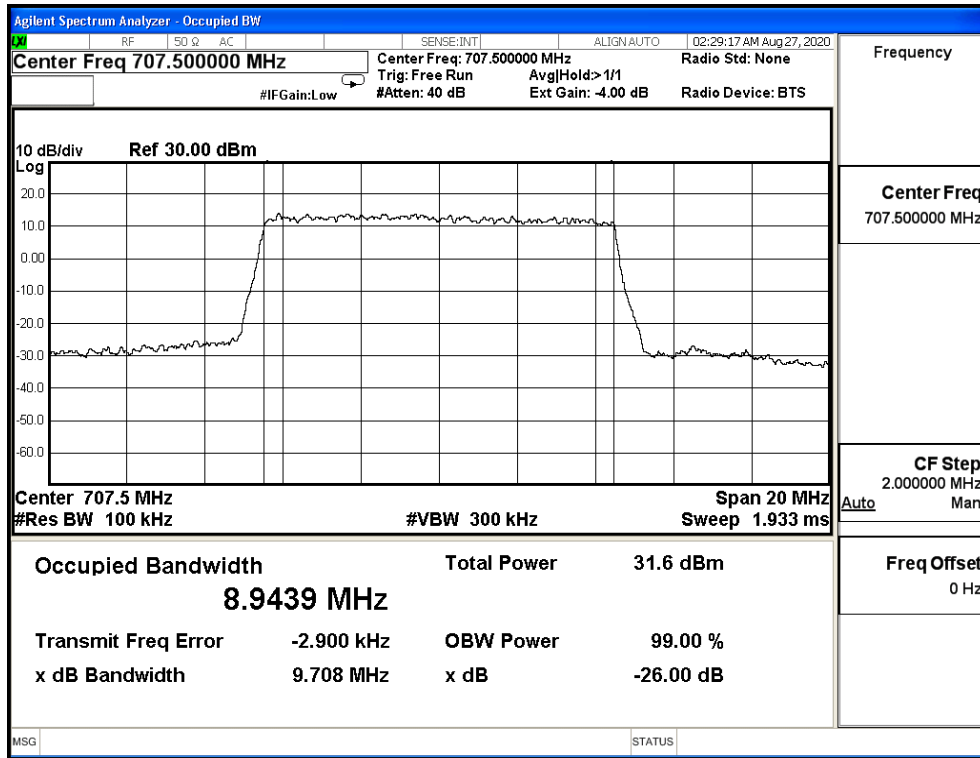
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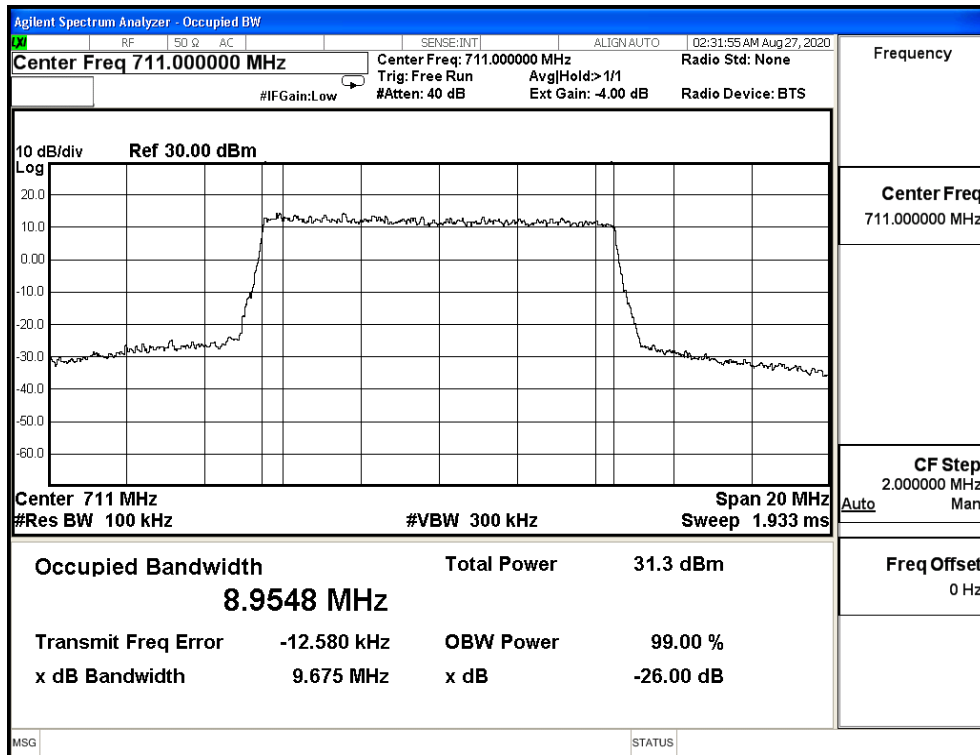
QPSK_CH23060_10M



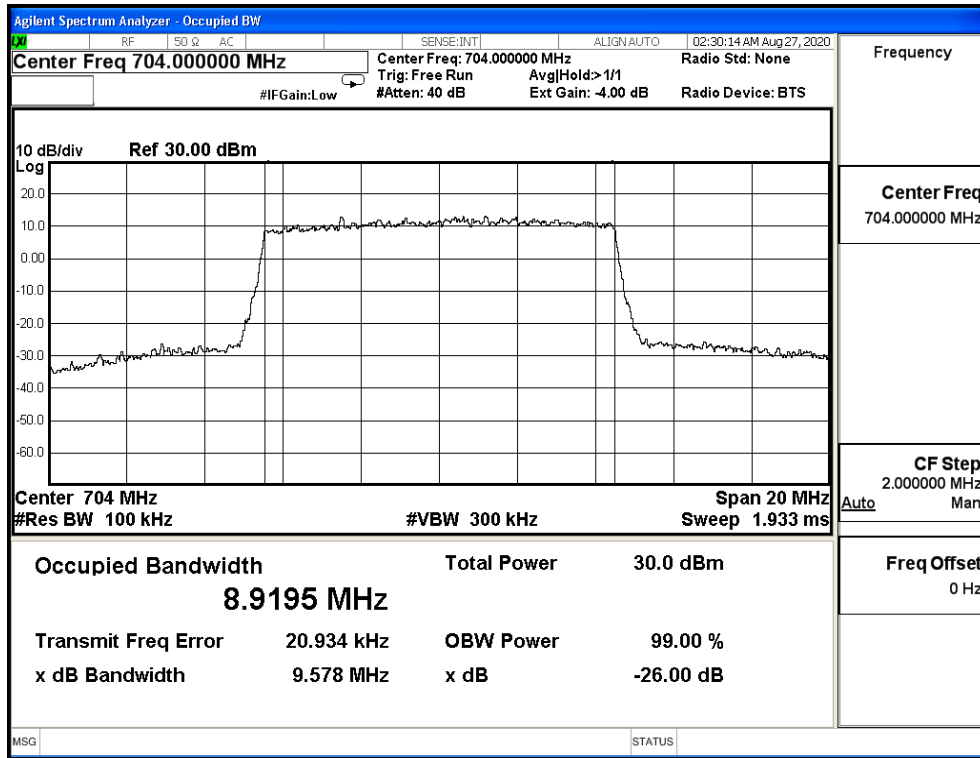
QPSK_CH23095_10M



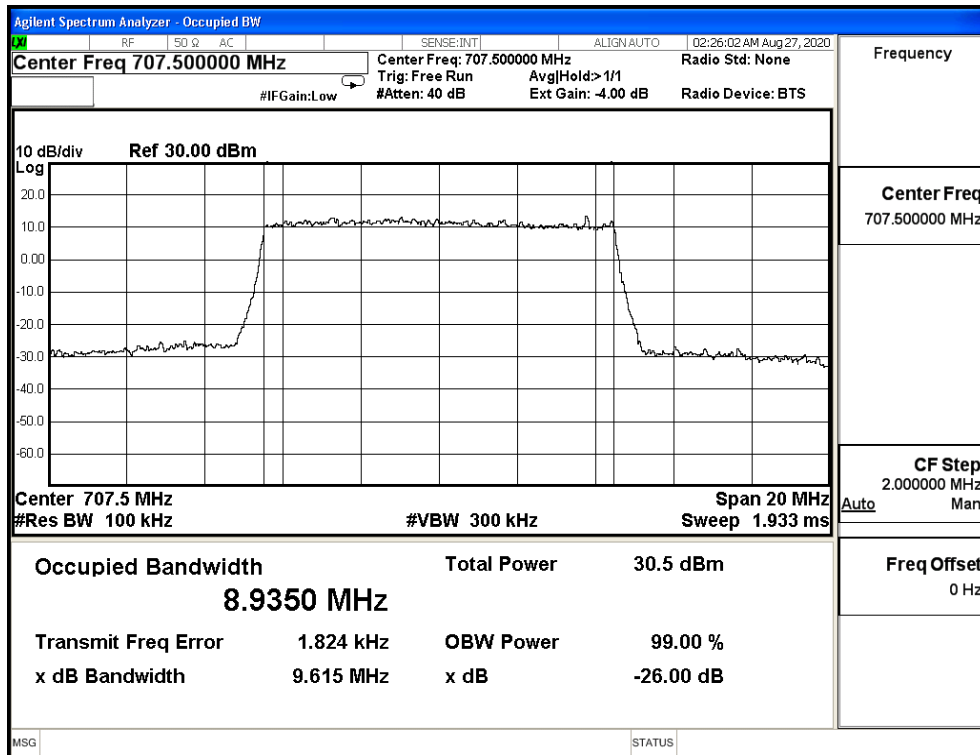
QPSK_CH23130_10M



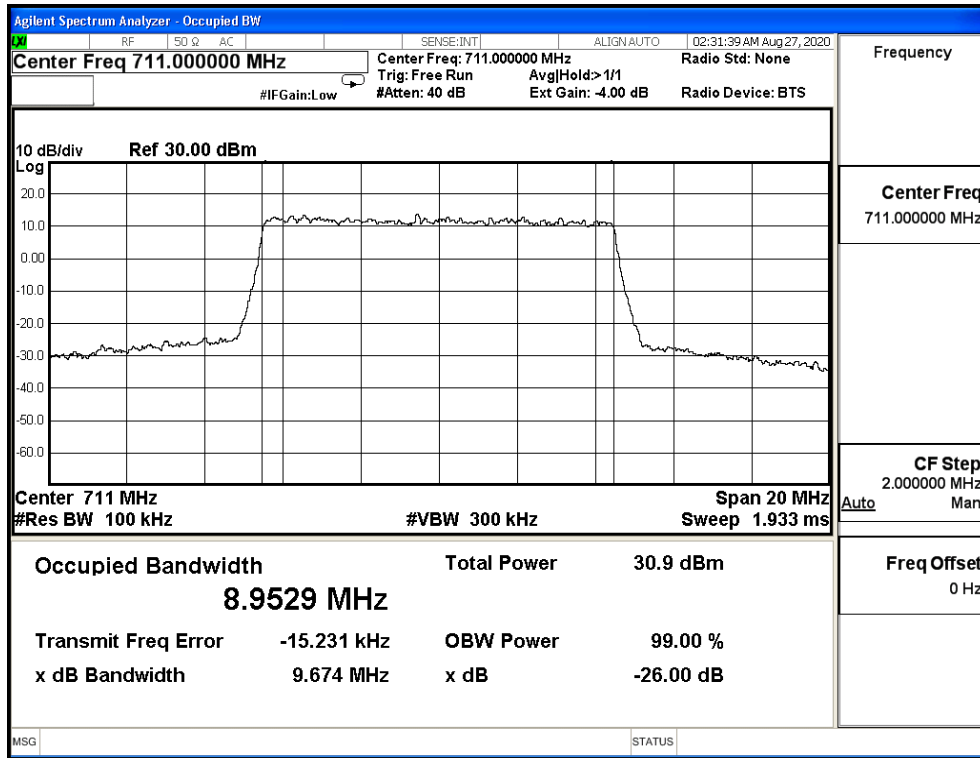
16QAM_CH23060_10M



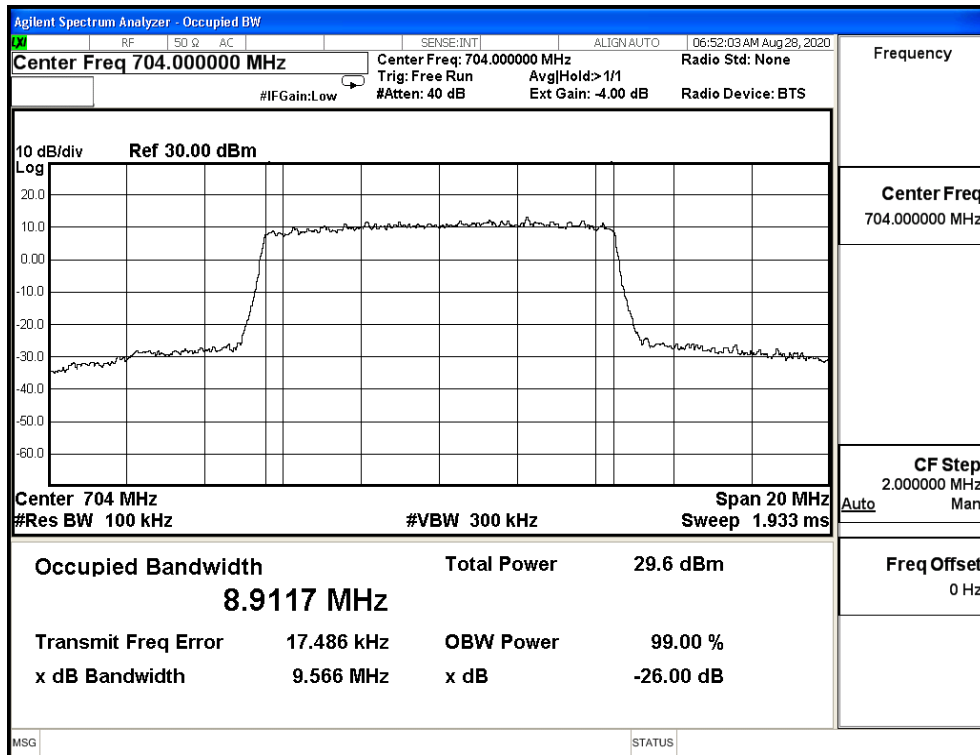
16QAM_CH23095_10M



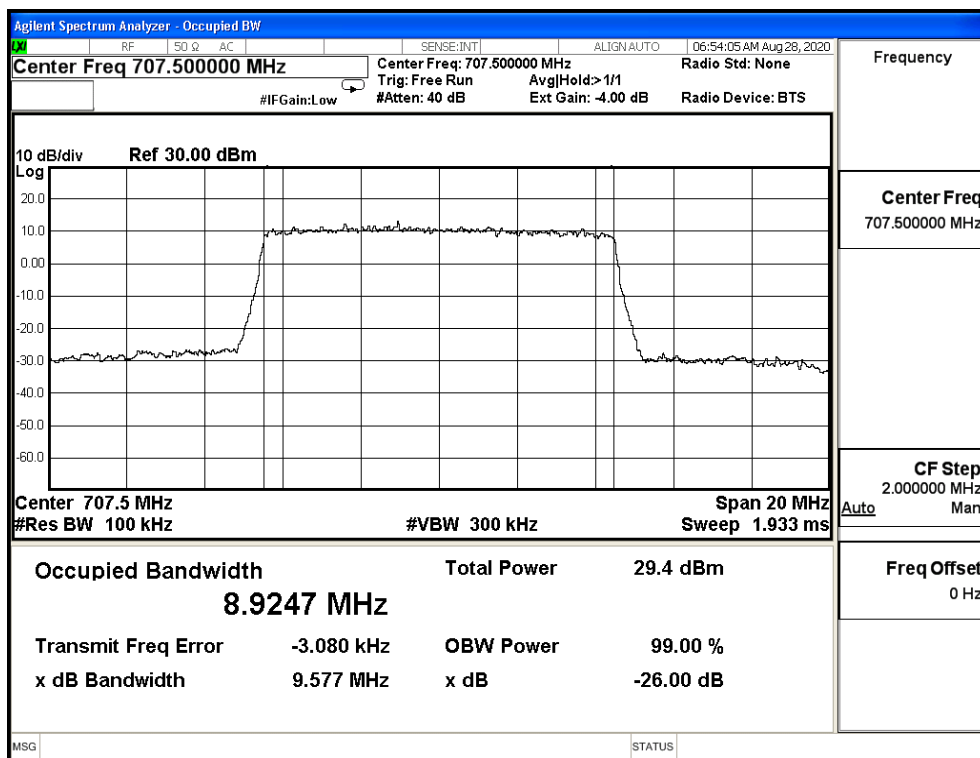
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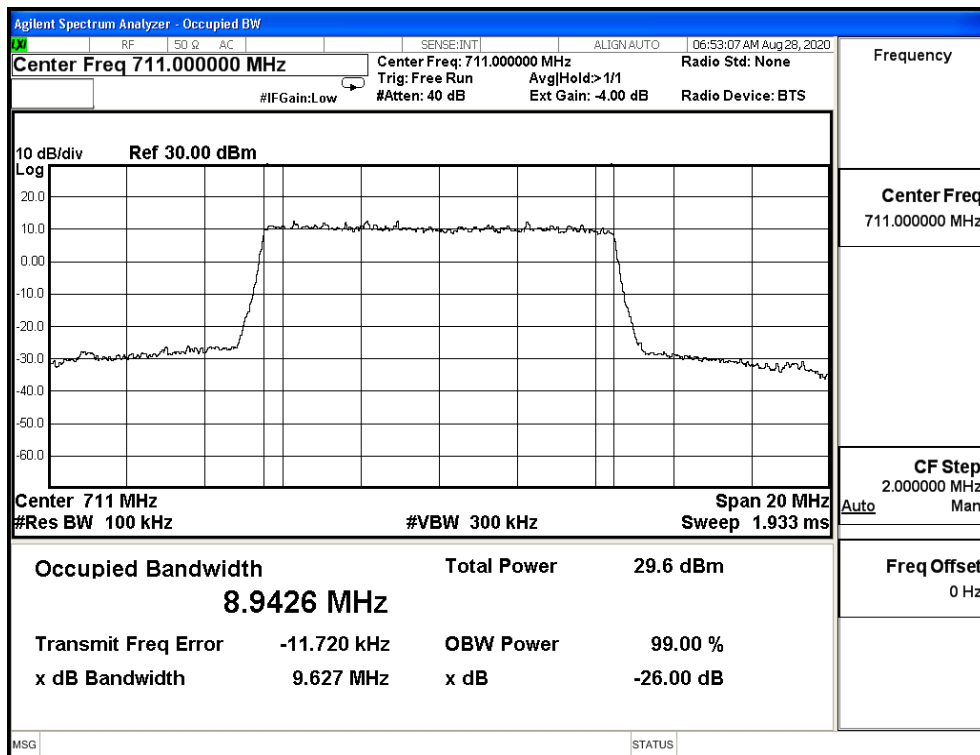
64QAM_CH23060_10M



64QAM_CH23095_10M



64QAM_CH23130_10M



| | | | |
|-----------------|---------------------|----------------|--------|
| Product | Module | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 6: LTE Band 13 | | |
| Date of Test | 2020/09/02 | Test Site | SR12-H |
| Temperature(°C) | 24 | Humidity (%RH) | 60 |

| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
|-----------------|------------|-----------------|---------------------|--------|-------------|
| | | | 26dB BW | 99% BW | |
| 5M | QPSK | 779.5 | 4.890 | 4.491 | N/A |
| | | 782 | 4.891 | 4.486 | N/A |
| | | 784.5 | 4.865 | 4.467 | N/A |
| | 16-QAM | 779.5 | 4.907 | 4.481 | N/A |
| | | 782 | 4.853 | 4.468 | N/A |
| | | 784.5 | 4.918 | 4.475 | N/A |
| | 64-QAM | 779.5 | 4.896 | 4.487 | N/A |
| | | 782 | 4.876 | 4.476 | N/A |
| | | 784.5 | 4.881 | 4.480 | N/A |
| 10M | QPSK | 782 | 9.654 | 8.935 | N/A |
| | 16-QAM | 782 | 9.589 | 8.932 | N/A |
| | 64-QAM | 782 | 9.575 | 8.922 | N/A |