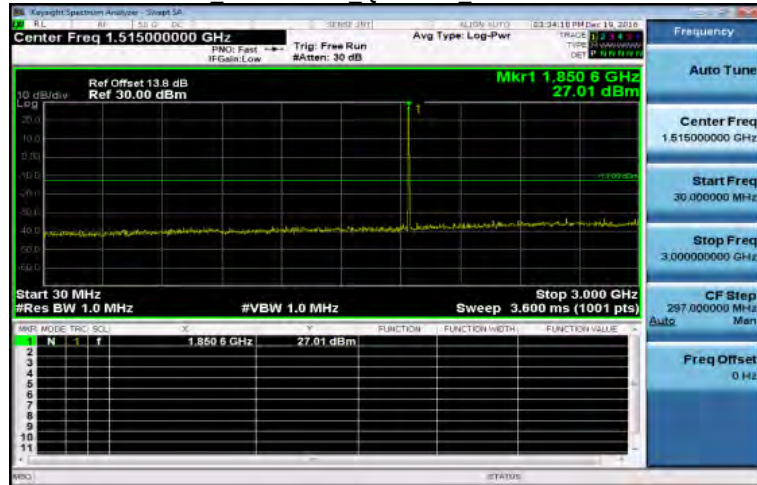
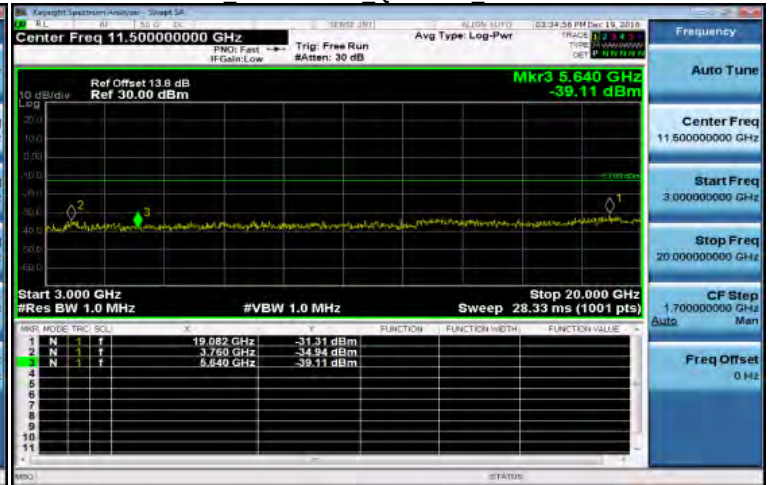


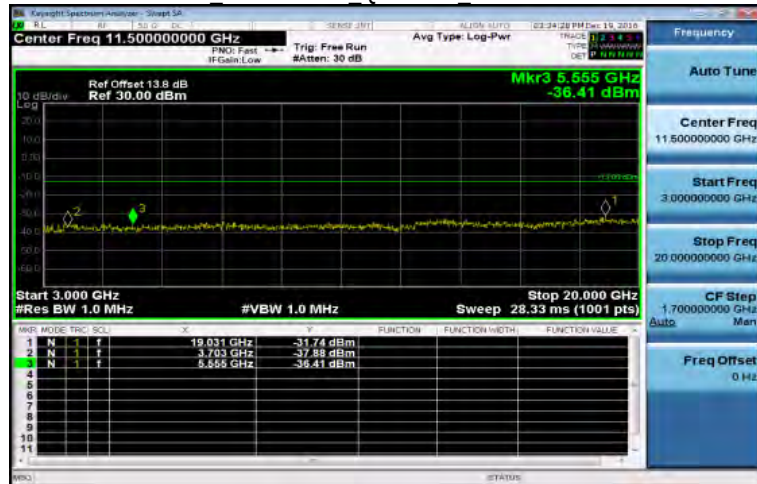
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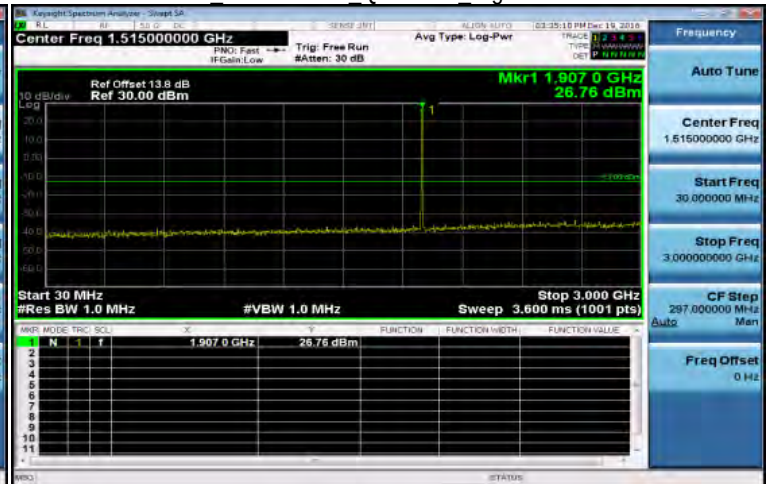
3GHz~10GHz Band2 3MHz QPSK 1 0 MidCH18900-1880



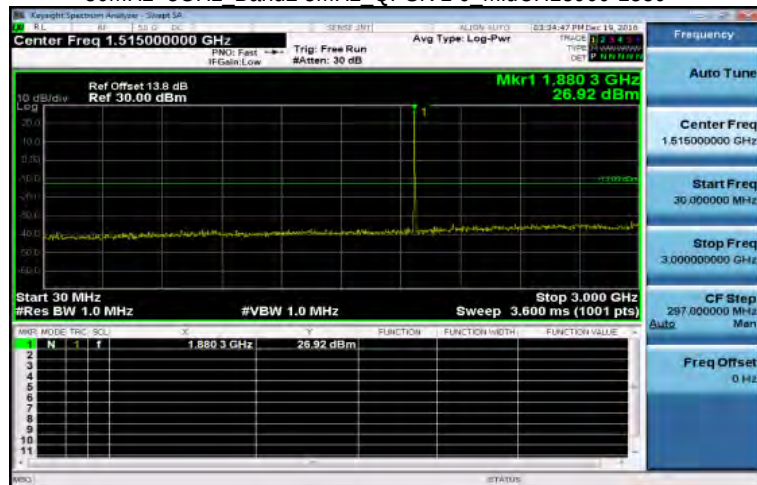
3GHz~10GHz Band2 3MHz QPSK 1 0 LowCH18615-1851.5



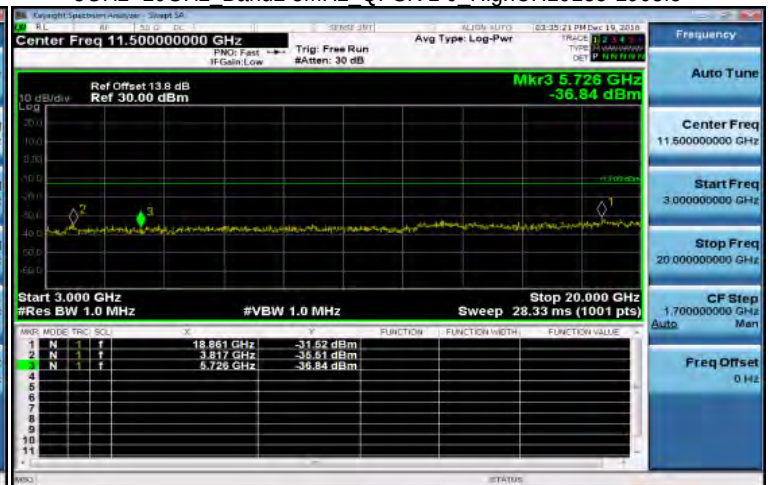
30MHz~3GHz Band2 3MHz QPSK 1 0 HighCH19185-1908.5



30MHz~3GHz Band2 3MHz QPSK 1 0 MidCH18900-1880



3GHz~10GHz Band2 3MHz QPSK 1 0 HighCH19185-1908.5



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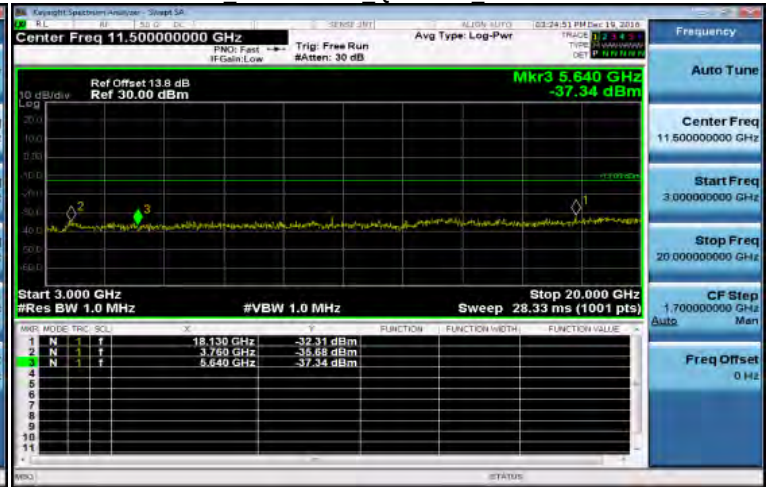
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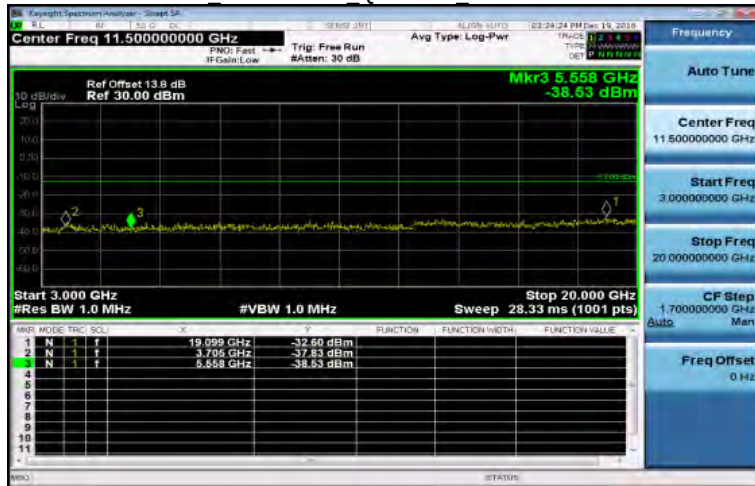
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3GHz~10GHz Band2 5MHz QPSK 1 0 MidCH18900-1880



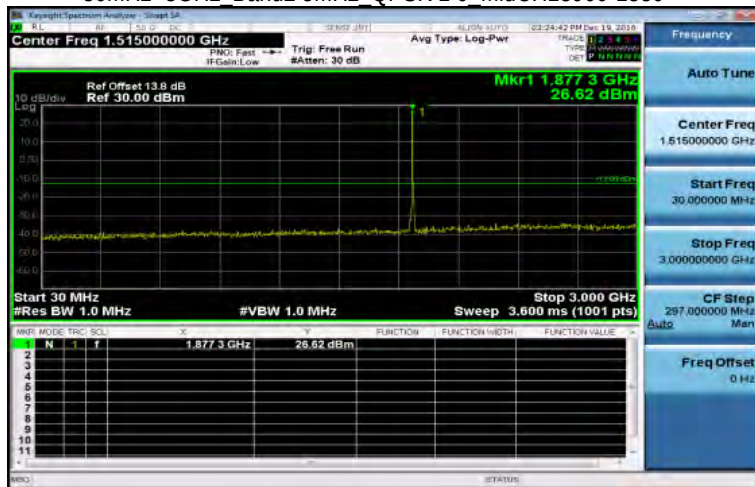
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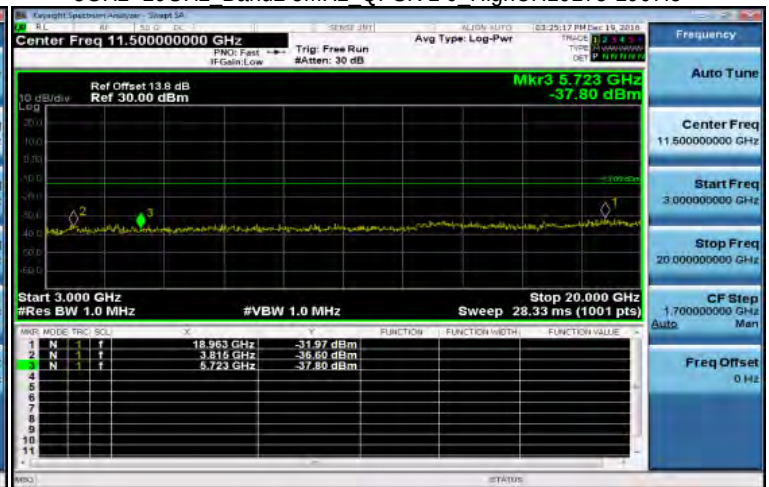
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3GHz~10GHz Band2 5MHz QPSK 1 0 HighCH19175-1907.5

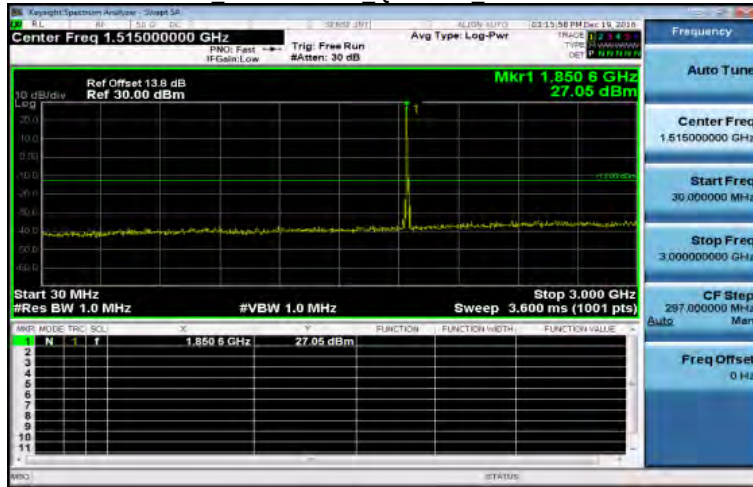


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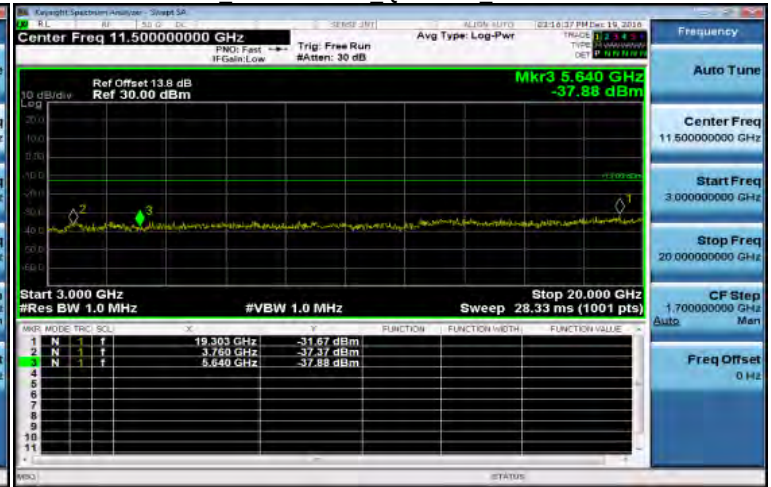
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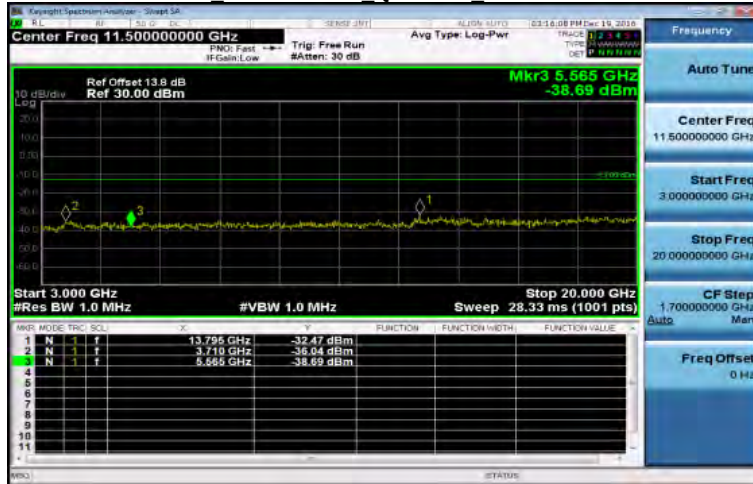
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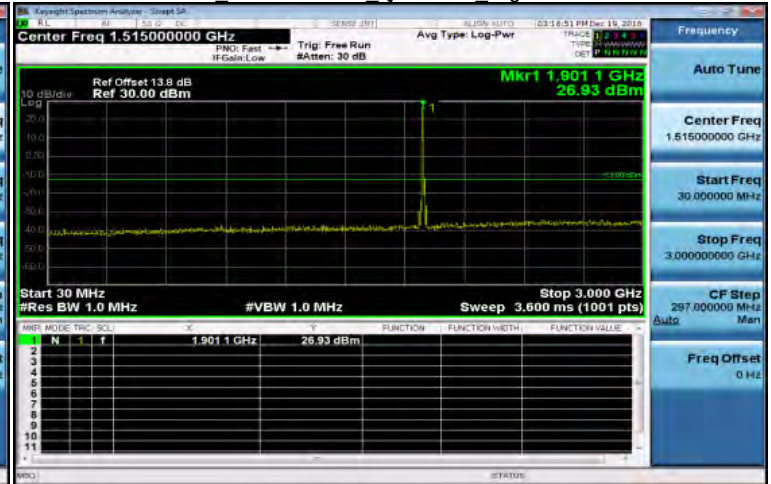
3GHz~10GHz Band2 10MHz QPSK 1 0 MidCH18900-1880



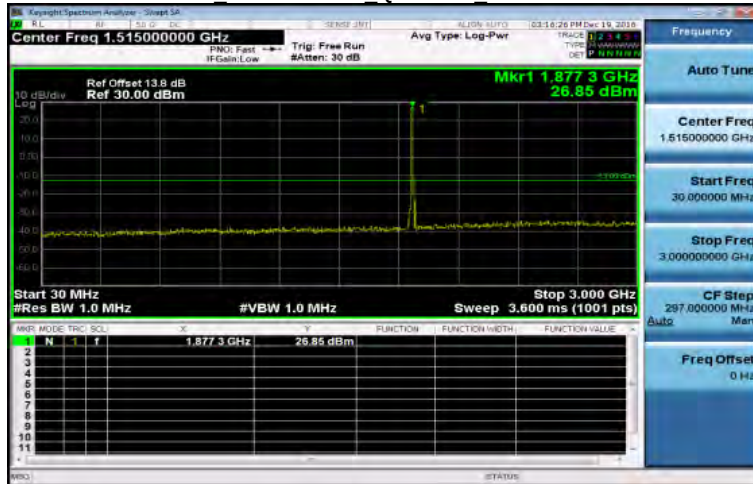
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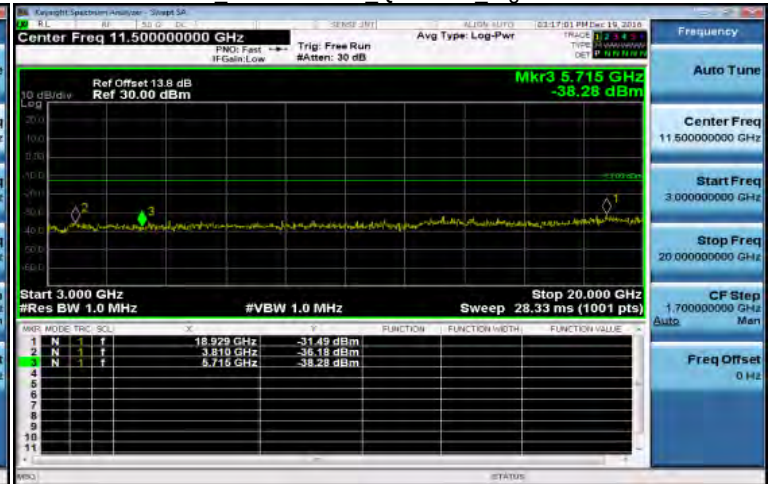
30MHz~3GHz Band2 10MHz QPSK 1 0 HighCH19150-1905



30MHz~3GHz Band2 10MHz QPSK 1 0 MidCH18900-1880



3GHz~10GHz Band2 10MHz QPSK 1 0 HighCH19150-1905

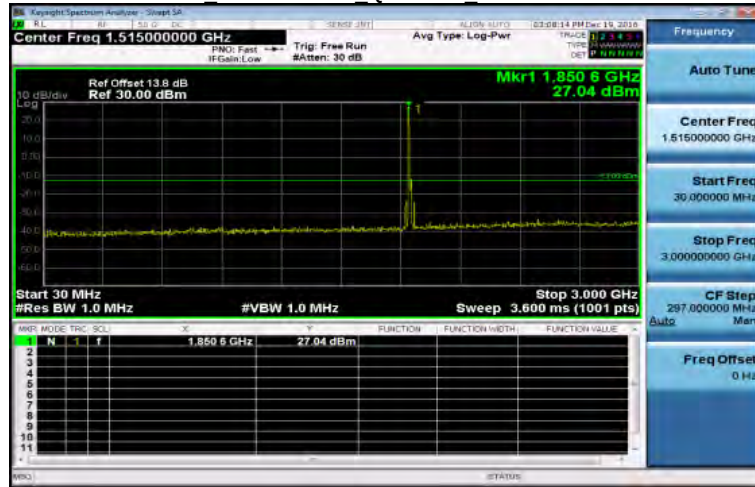


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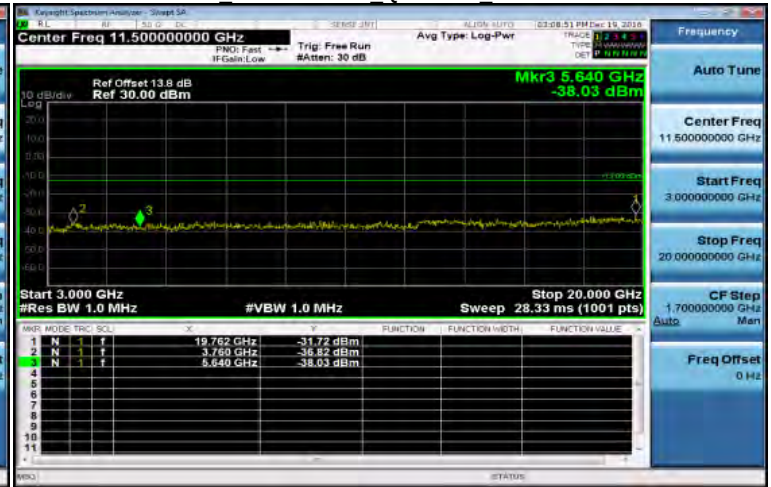
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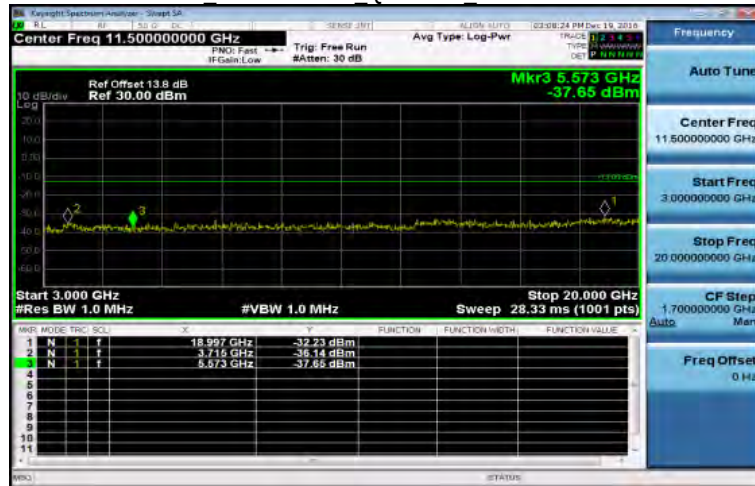
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3GHz~10GHz Band2 15MHz QPSK 1 0 MidCH18900-1880



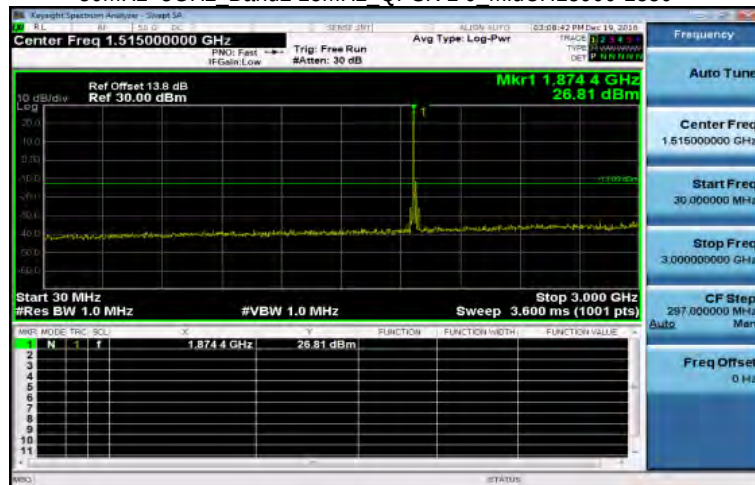
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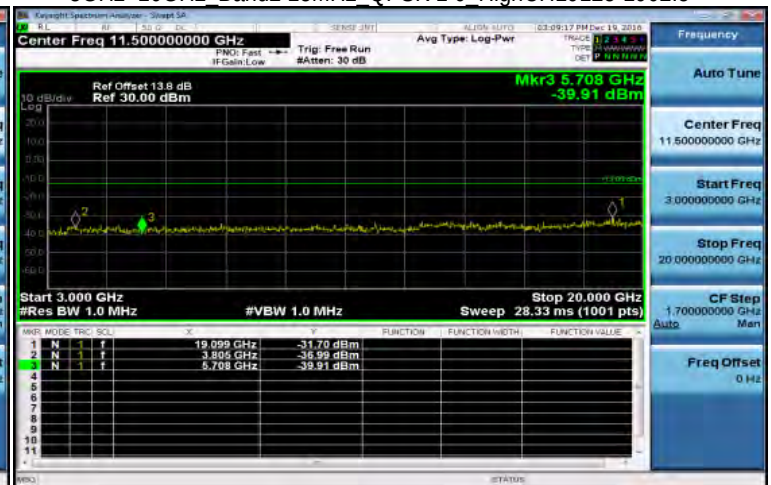
30MHz~3GHz Band2 15MHz QPSK 1 0 HighCH19125-1902.5



30MHz~3GHz Band2 15MHz QPSK 1 0 MidCH18900-1880



3GHz~10GHz Band2 15MHz QPSK 1 0 HighCH19125-1902.5

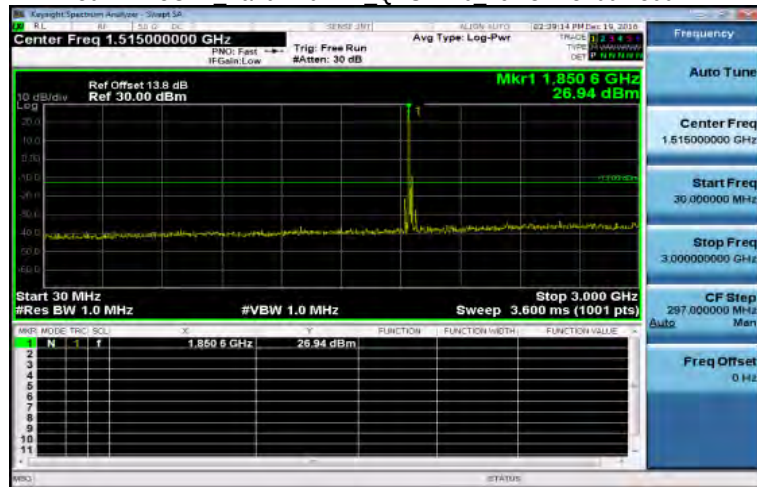


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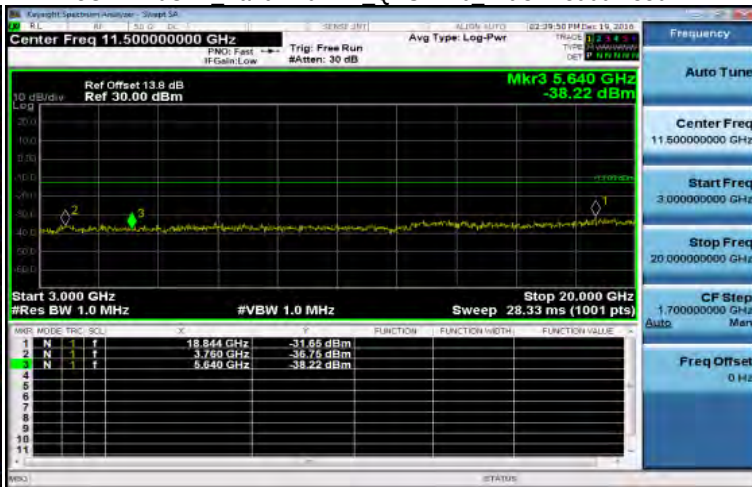
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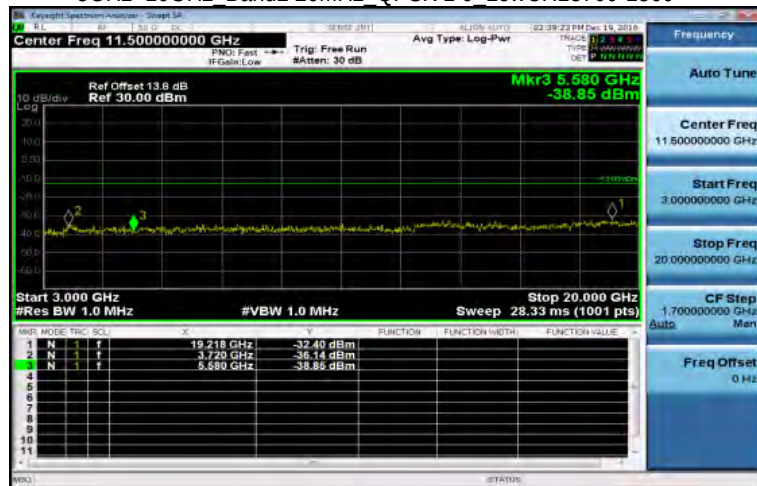
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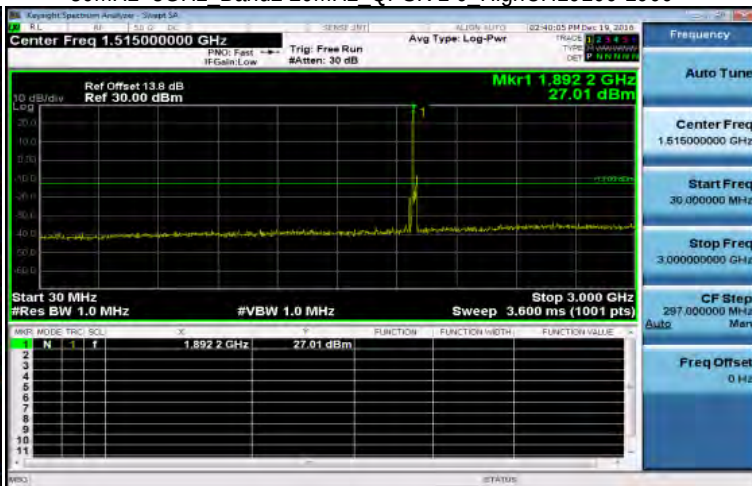
3GHz~10GHz Band2 20MHz QPSK 1 0 MidCH18900-1880



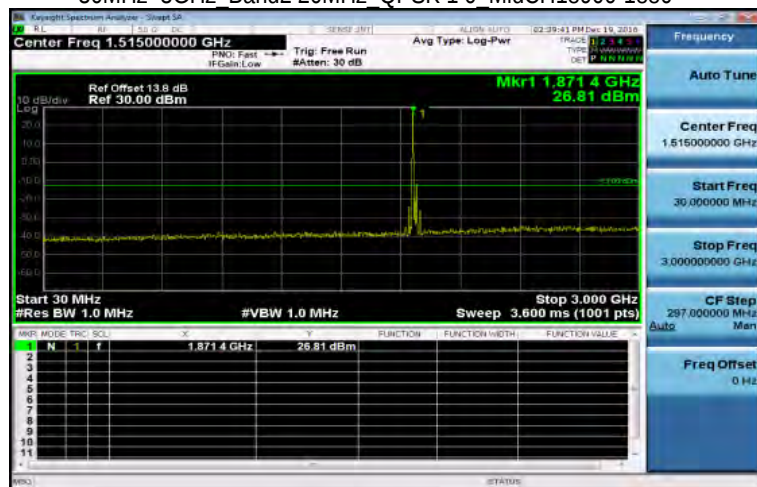
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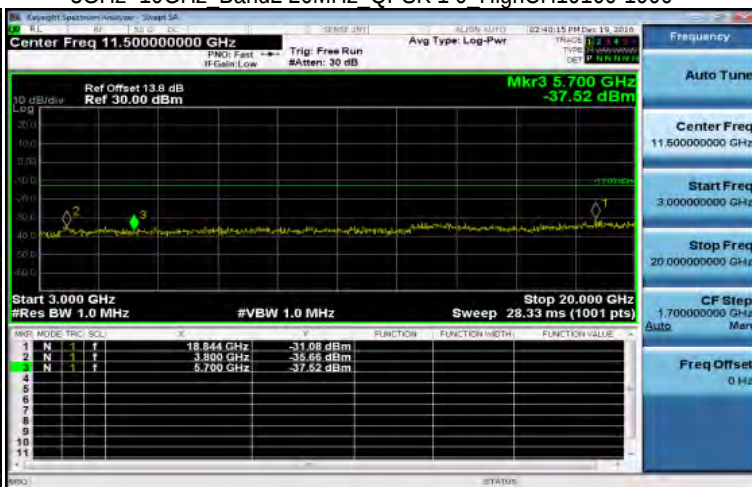
30MHz~3GHz Band2 20MHz QPSK 1 0 HighCH19100-1900



30MHz~3GHz Band2 20MHz QPSK 1 0 MidCH18900-1880



3GHz~10GHz Band2 20MHz QPSK 1 0 HighCH19100-1900

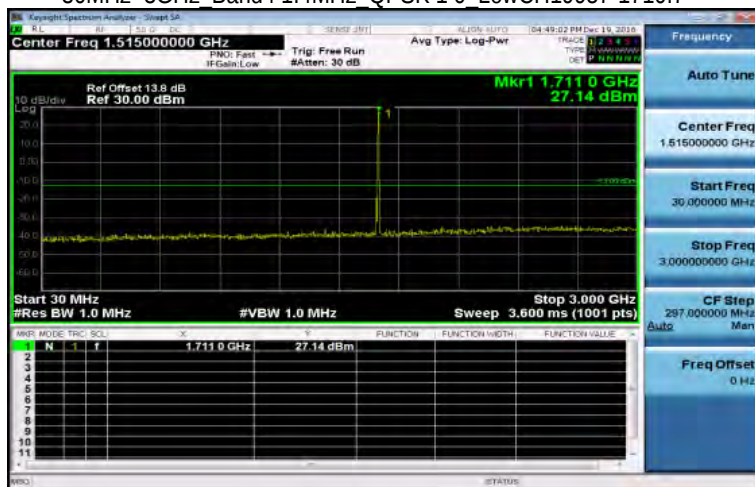


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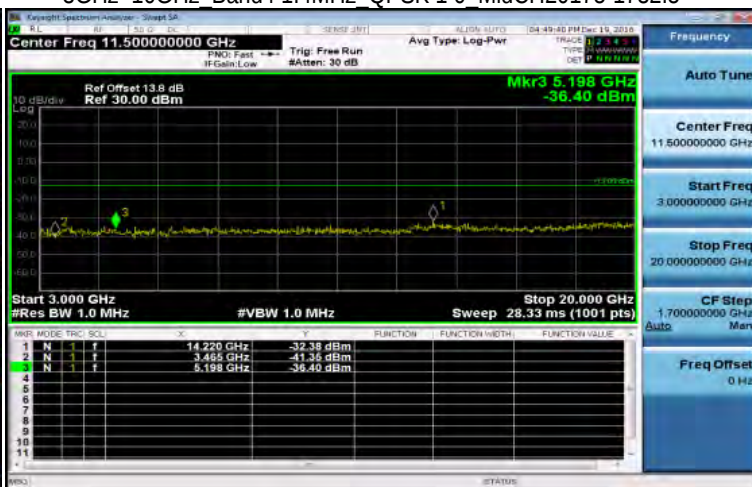
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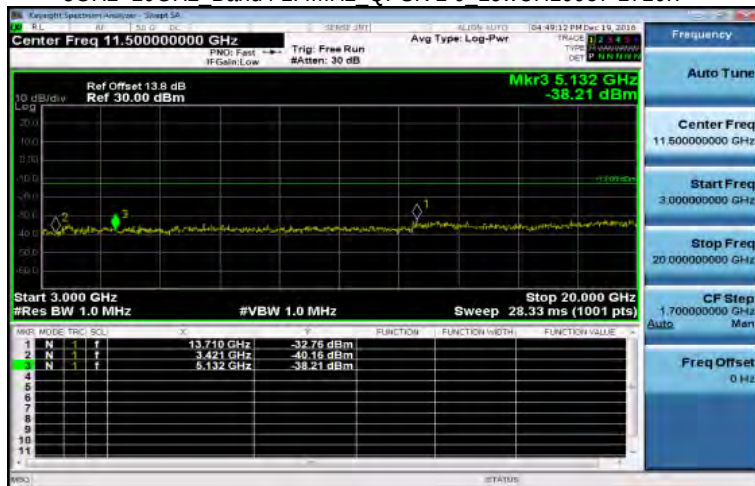
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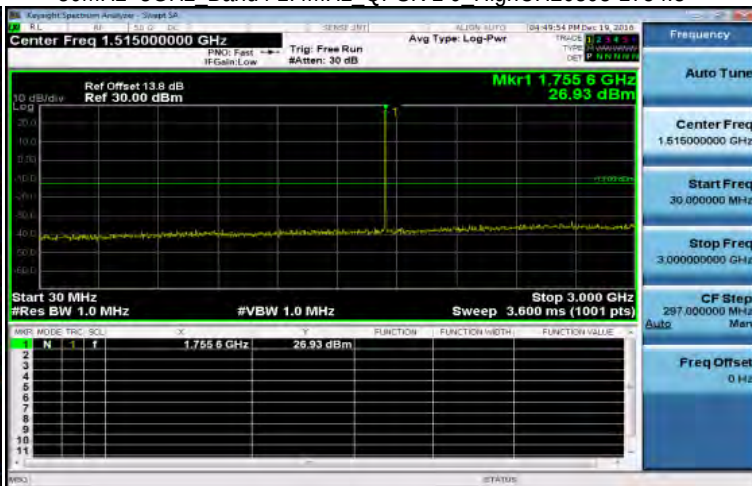
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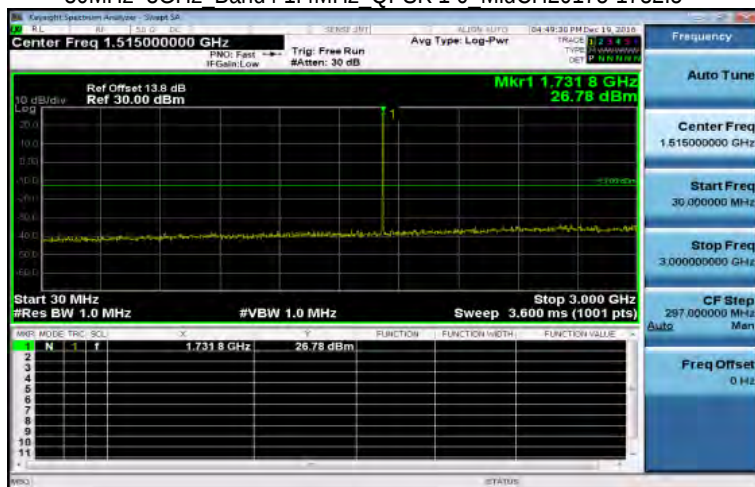
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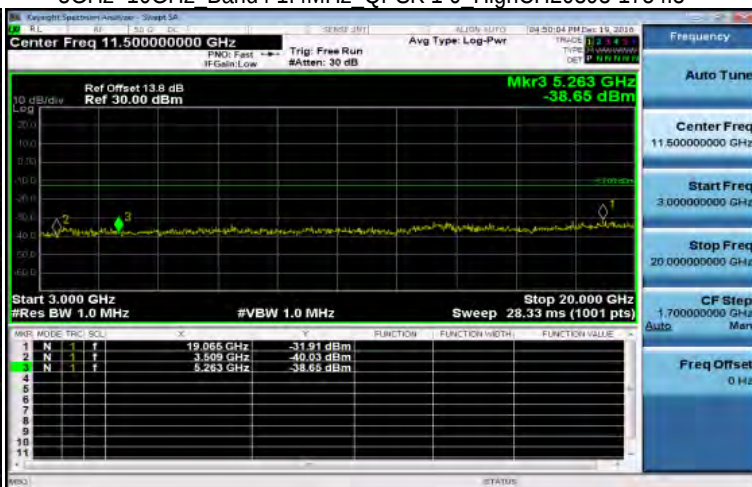
30MHz~3GHz Band4 1.4MHz QPSK 10 HighCH20393-1754.3



30MHz~3GHz Band4 1.4MHz QPSK 10 MidCH20175-1732.5



3GHz~10GHz Band4 1.4MHz QPSK 10 HighCH20393-1754.3



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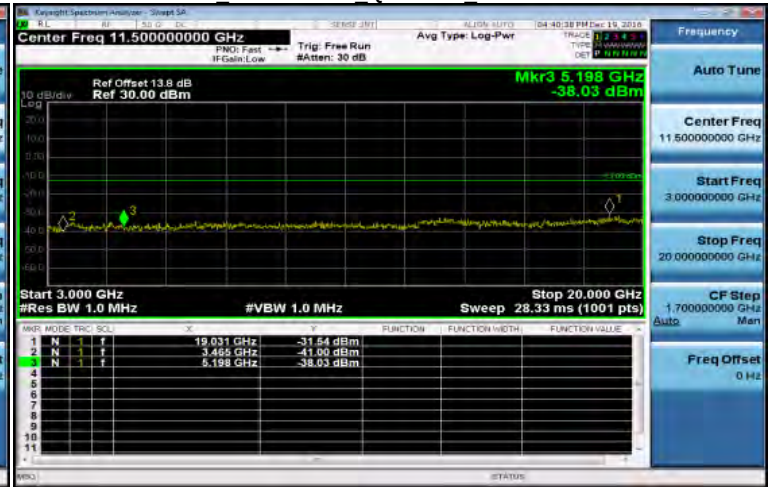
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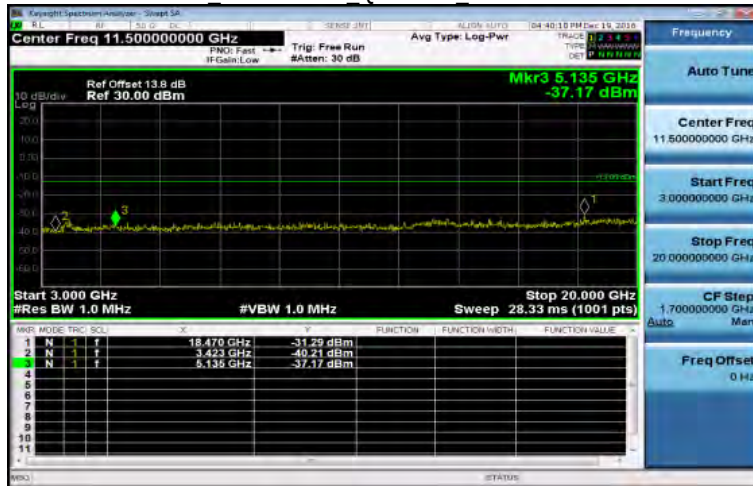
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3GHz~10GHz Band4 3MHz QPSK 1 0 MidCH20175-1732.5



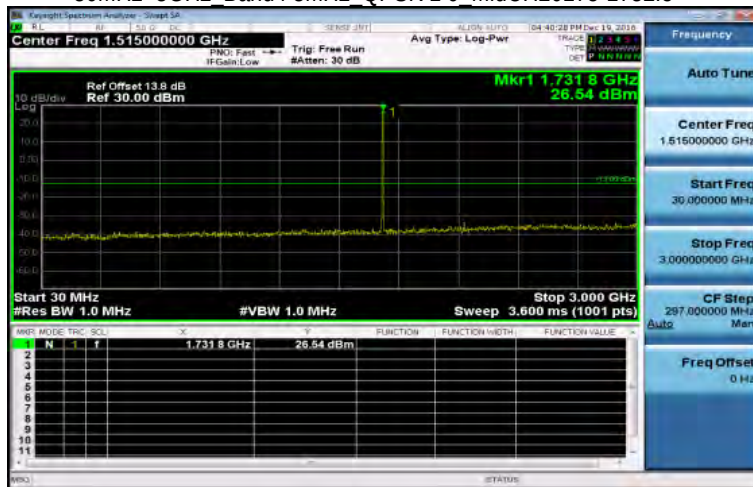
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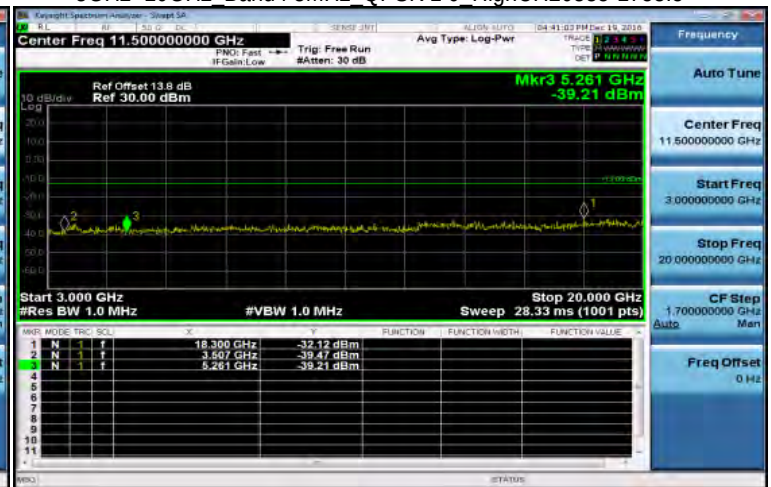
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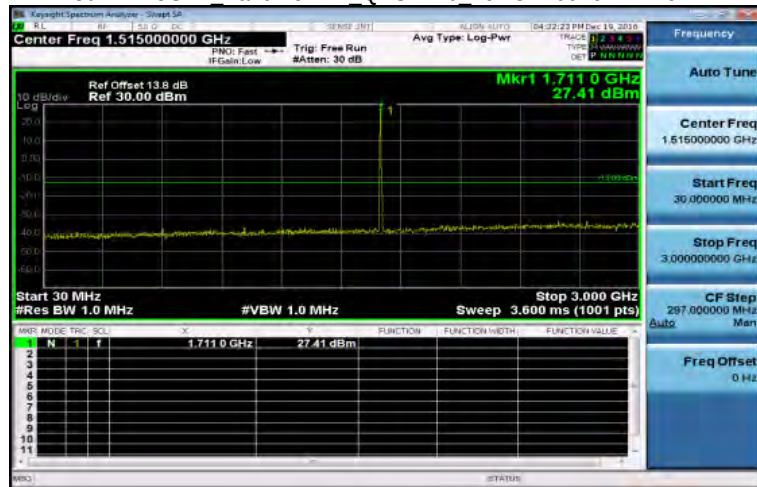


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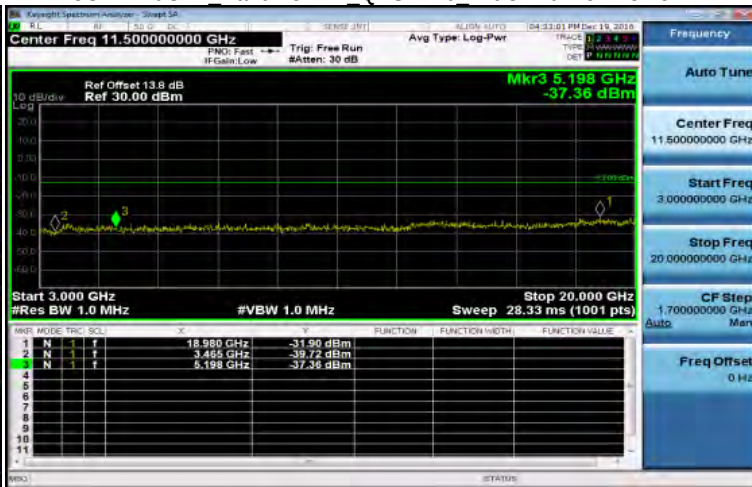
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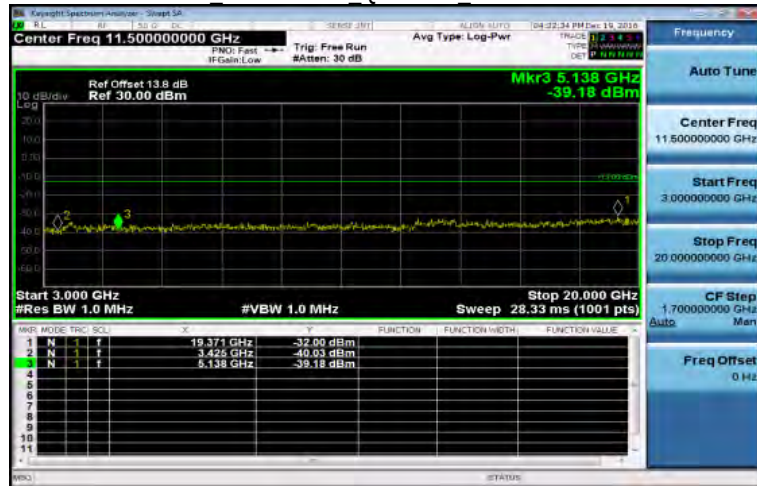
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3GHz~10GHz Band4 5MHz QPSK 1 0 MidCH20175-1732.5



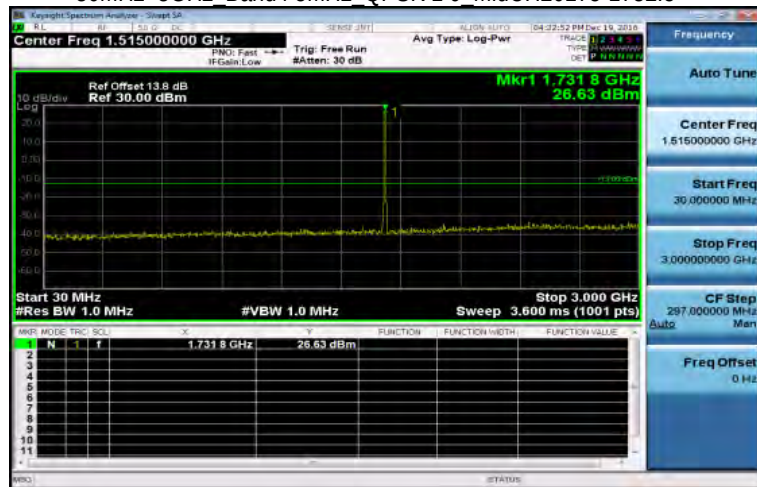
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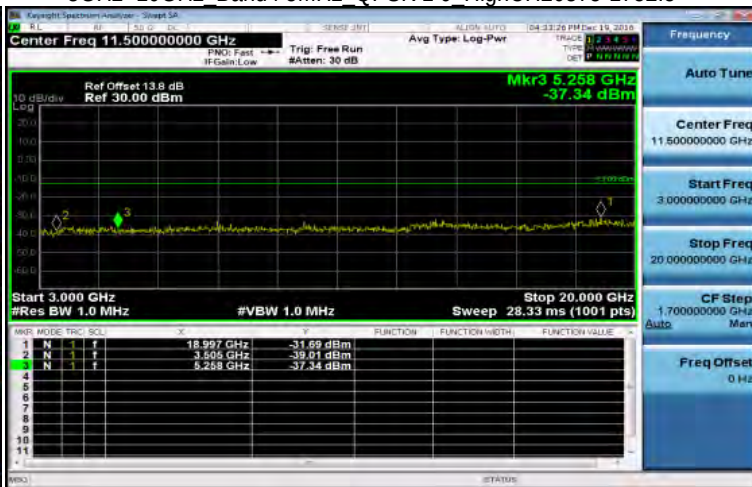
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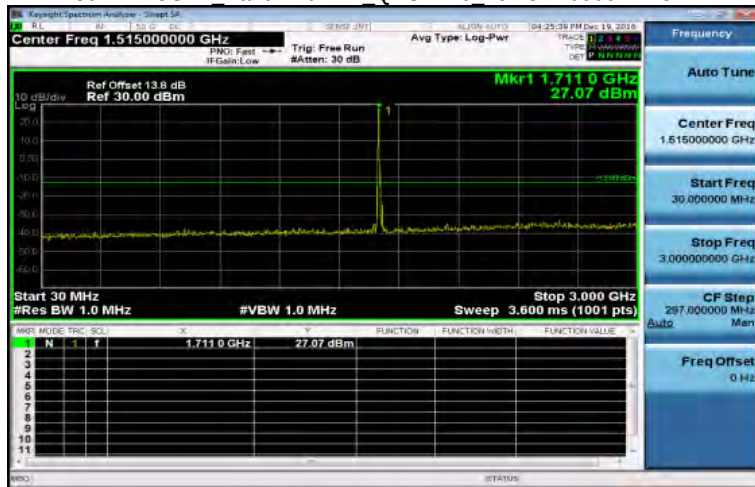


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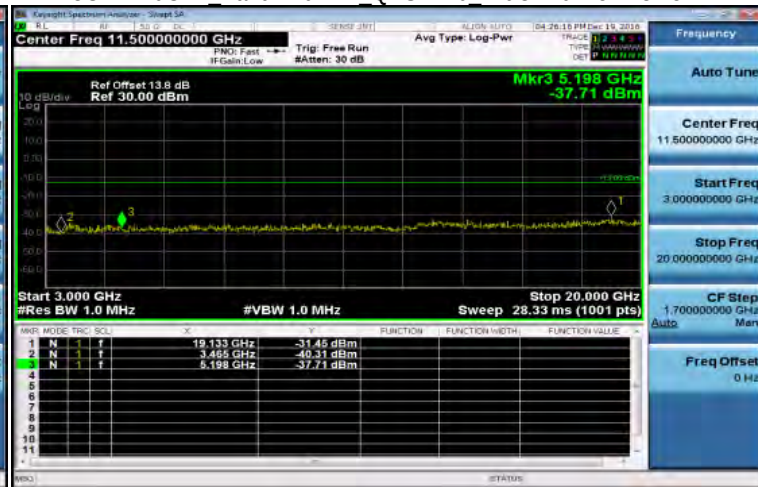
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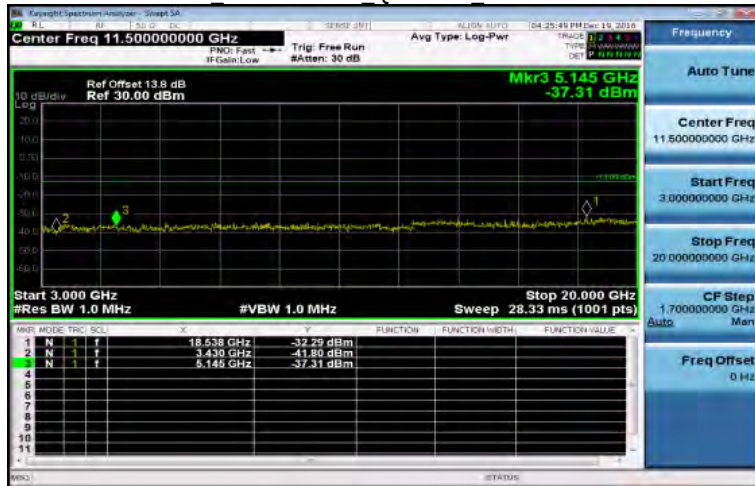
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3GHz~10GHz Band4 10MHz QPSK 1 0 MidCH20175-1732.5



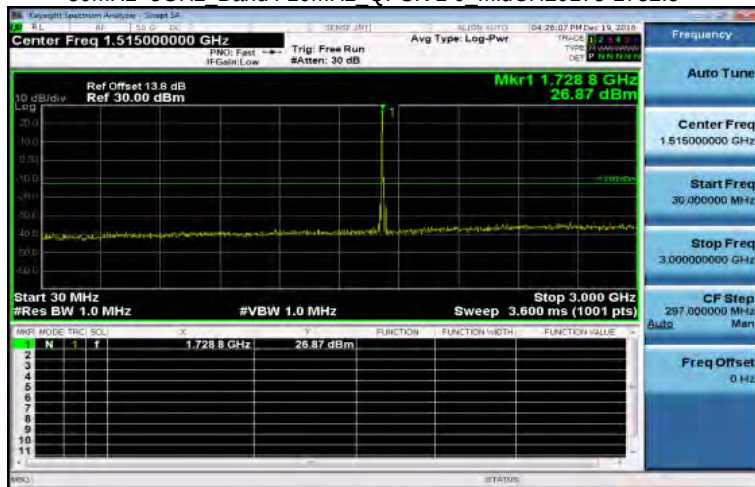
3GHz~10GHz Band4 10MHz QPSK 1 0 LowCH20000-1715



30MHz~3GHz Band4 10MHz QPSK 1 0 HighCH20350-1750



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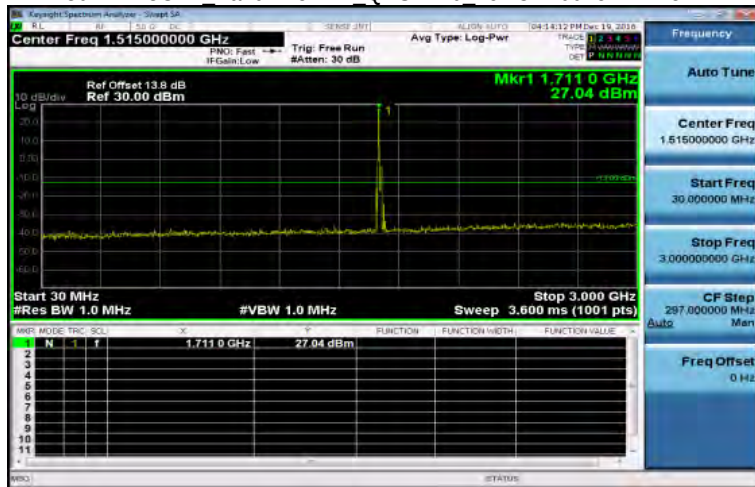


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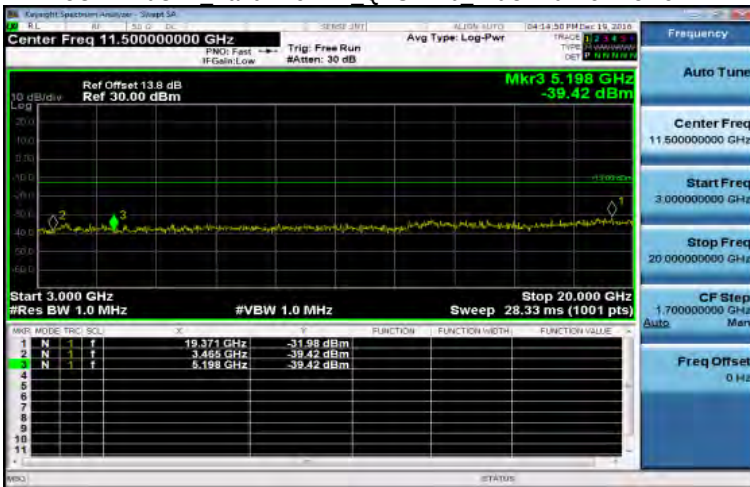
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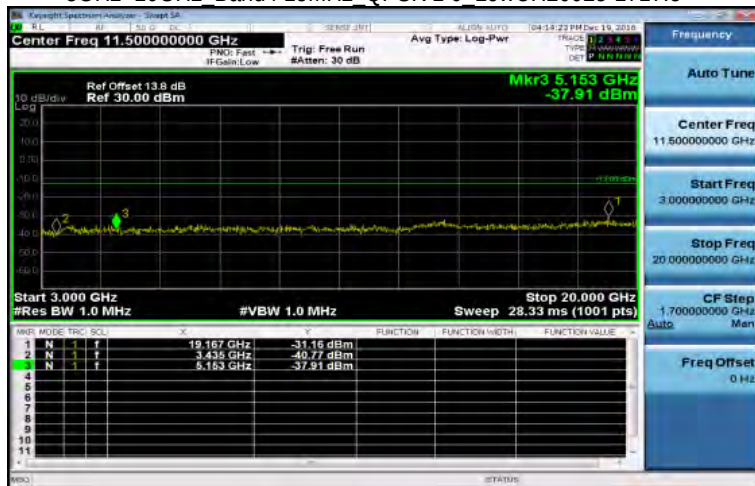
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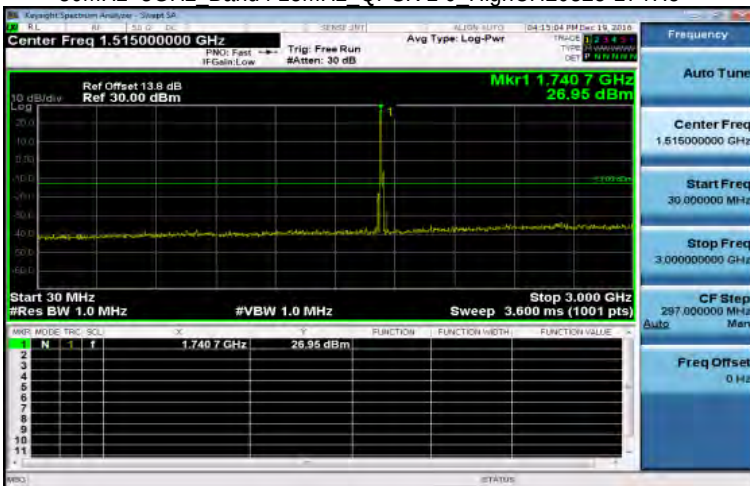
3GHz~10GHz Band4 15MHz QPSK 1 0 MidCH20175-1732.5



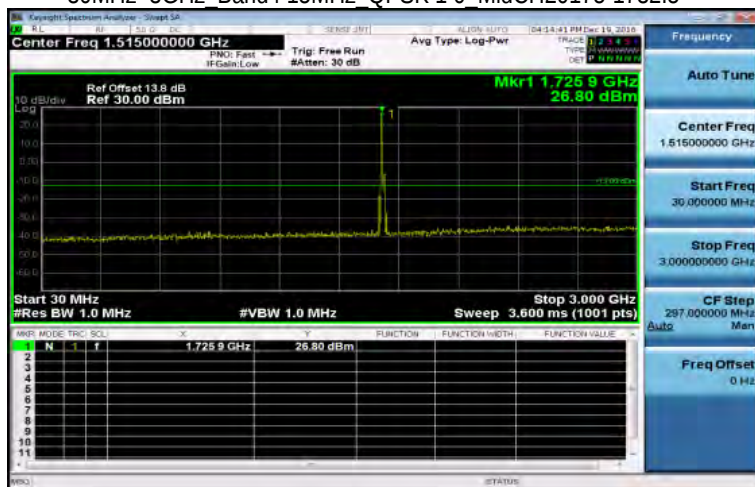
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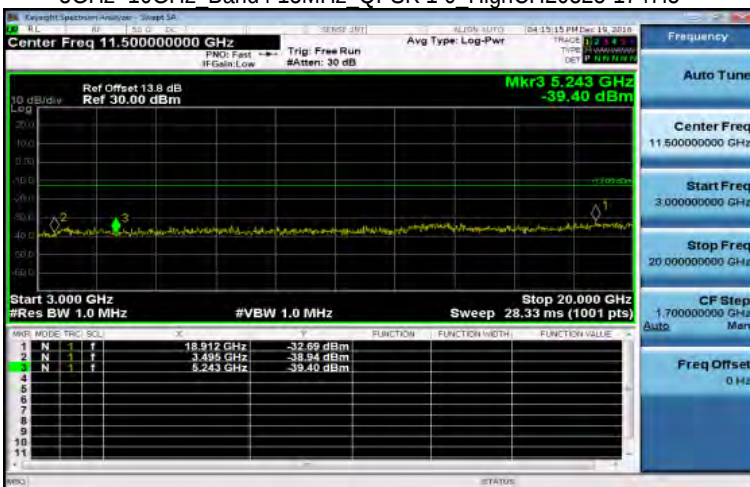
30MHz~3GHz Band4 15MHz QPSK 1 0 HighCH20325-1747.5



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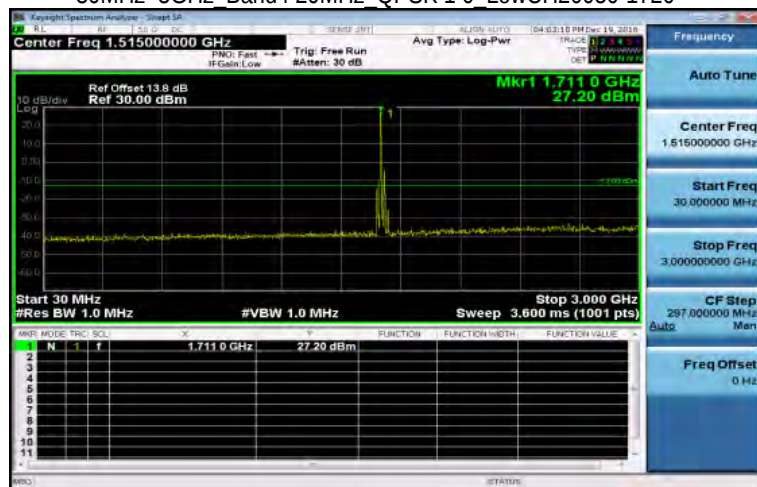


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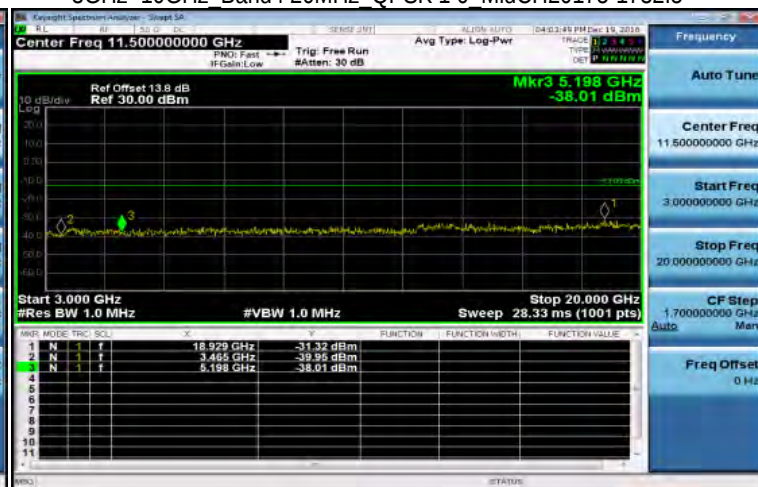
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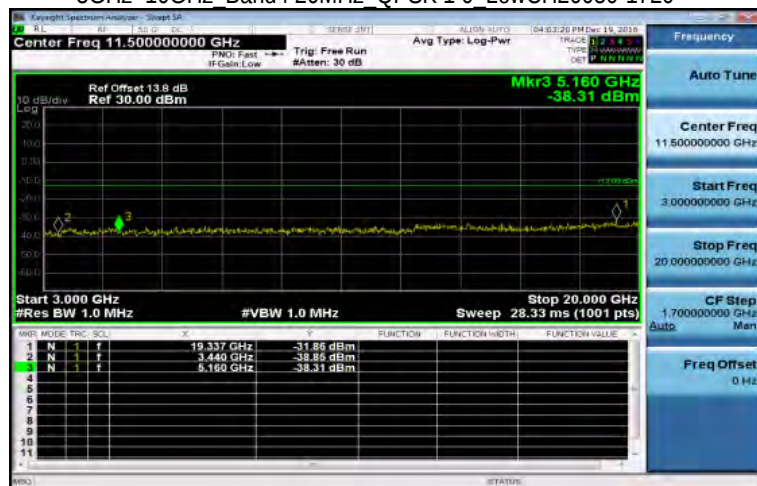
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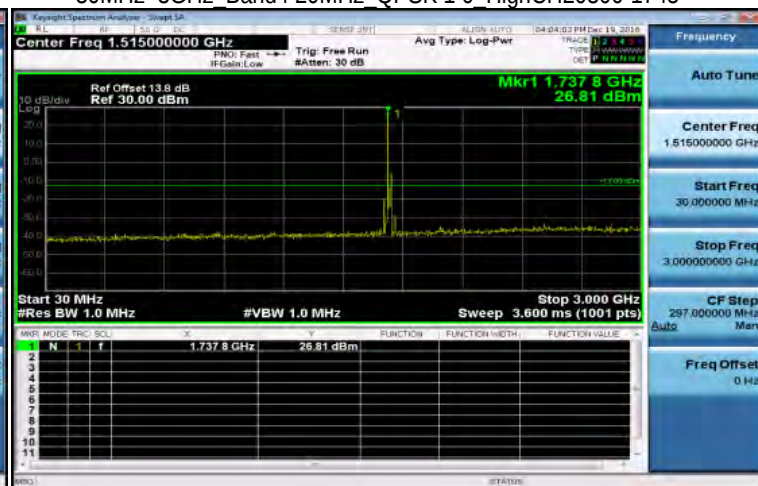
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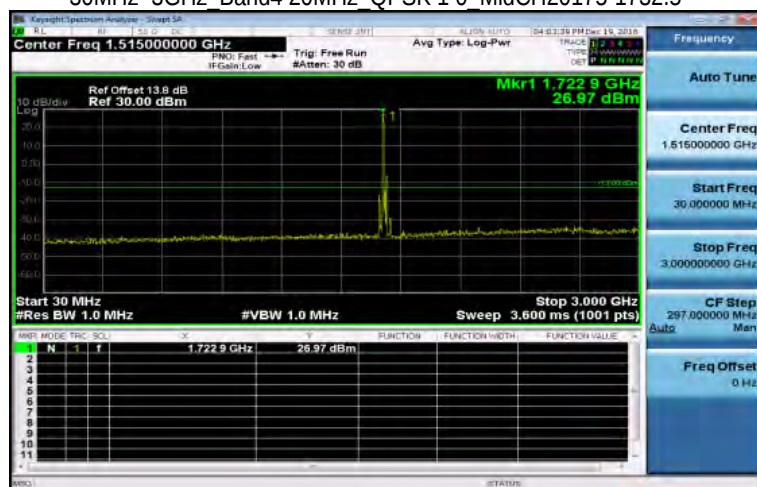
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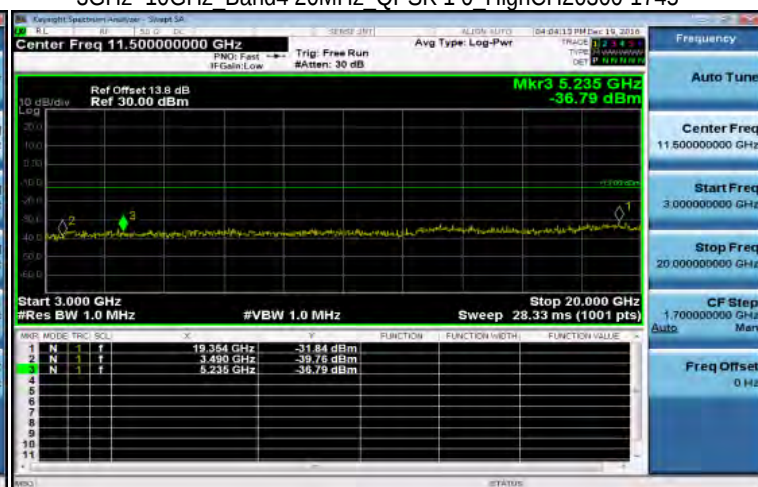
30MHz~3GHz Band4 20MHz QPSK 1 0 HighCH20300-1745



30MHz~3GHz Band4 20MHz QPSK 1 0 MidCH20175-1732.5



3GHz~10GHz Band4 20MHz QPSK 1 0 HighCH20300-1745

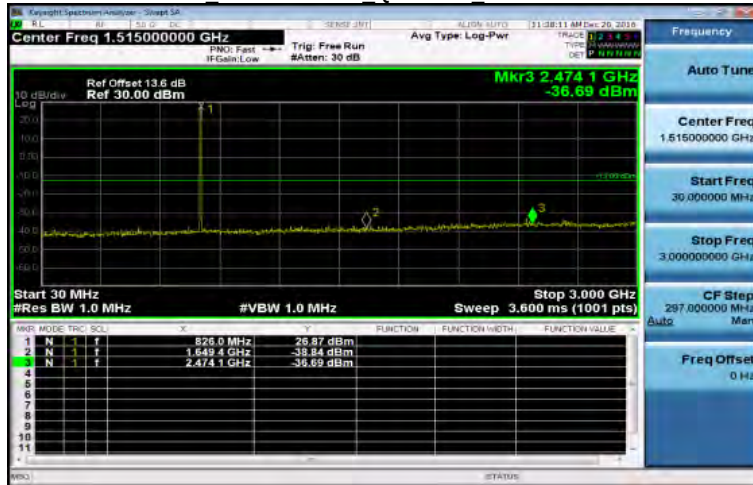


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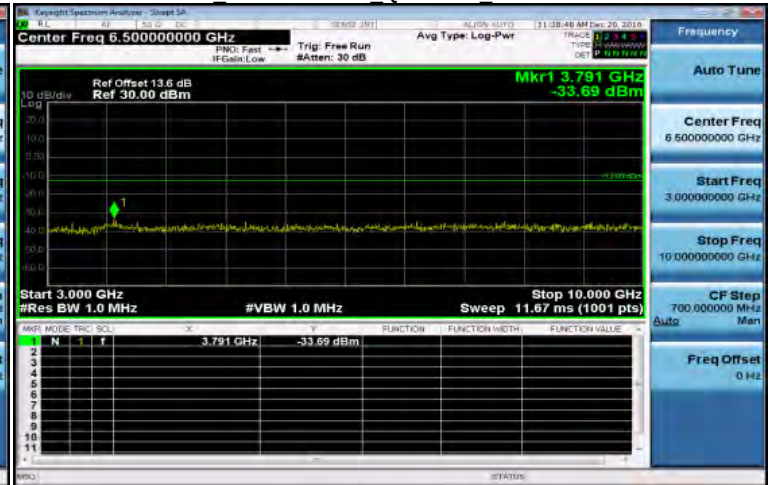
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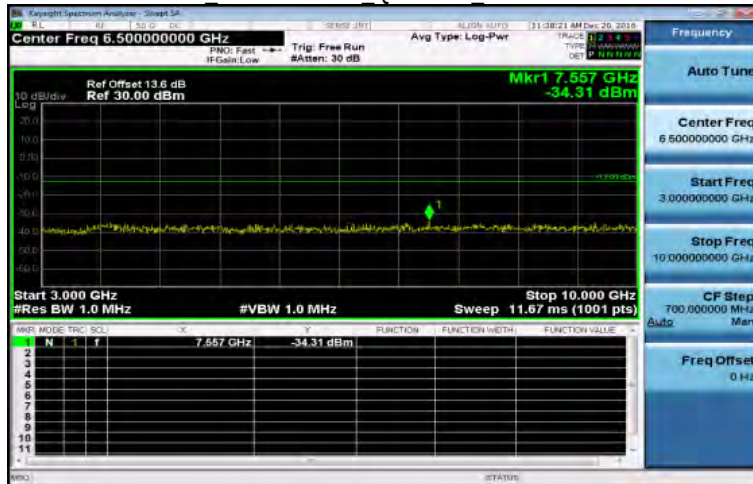
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3GHz~10GHz Band5 1.4MHz QPSK 1 0 MidCH20525-836.5



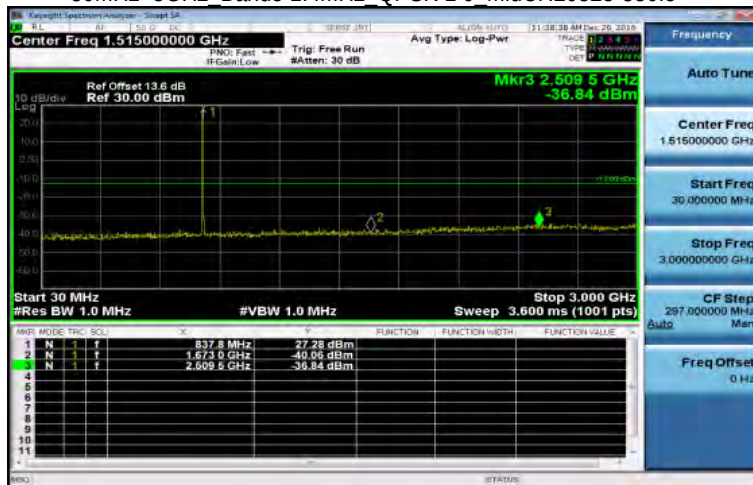
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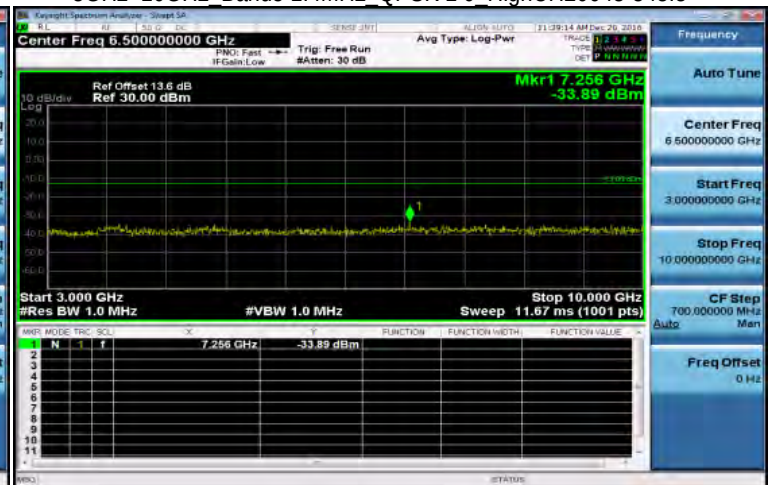
30MHz~3GHz Band5 1.4MHz QPSK 1 0 HighCH20643-848.3



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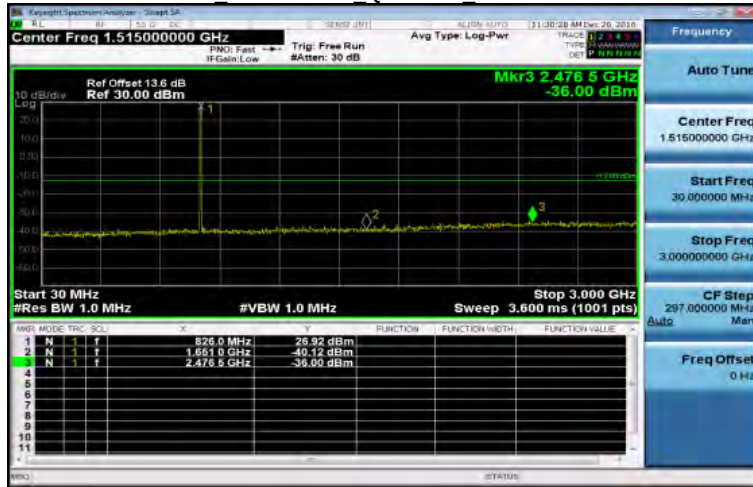


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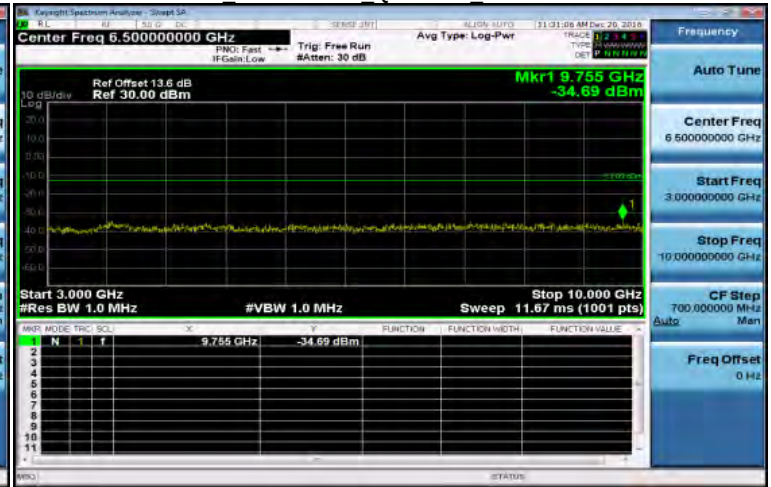
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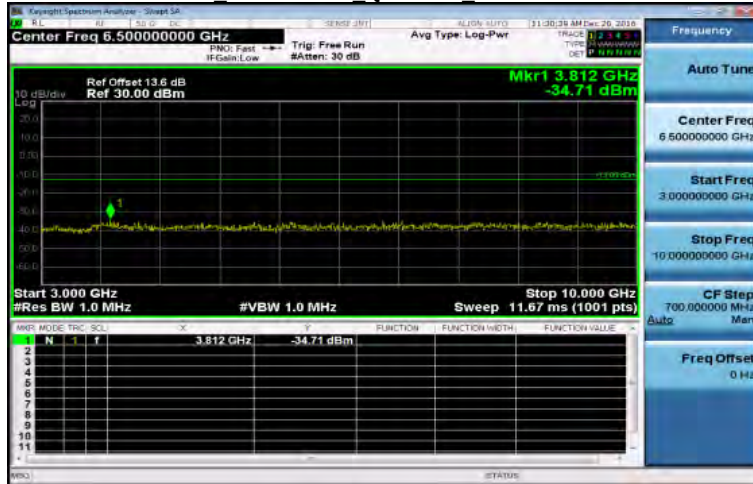
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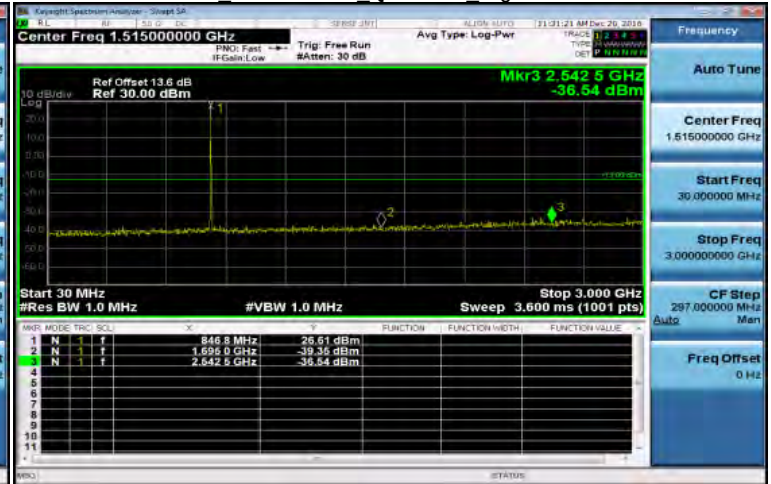
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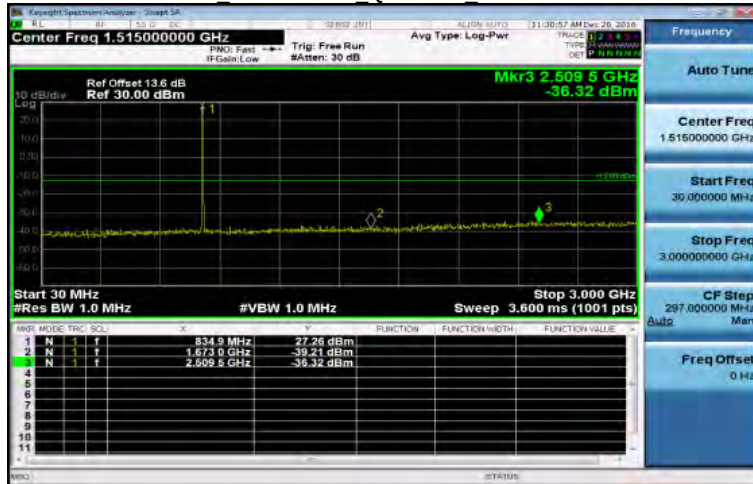
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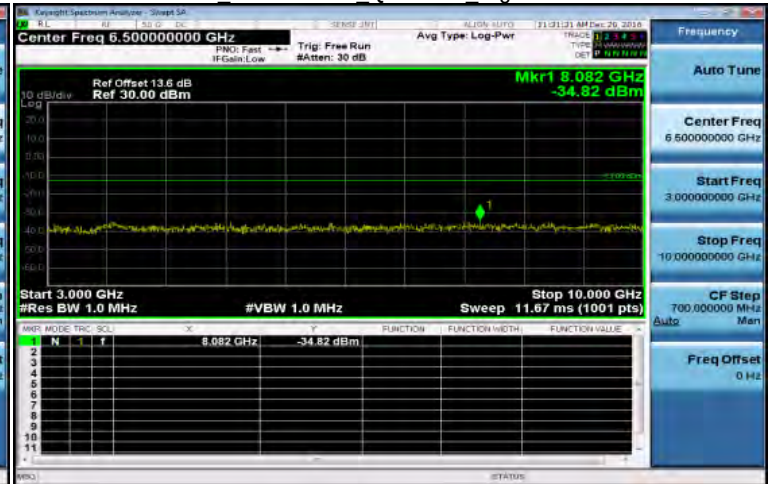
30MHz~3GHz Band5 3MHz QPSK 1 0 HighCH20635-847.5



30MHz~3GHz Band5 3MHz QPSK 1 0 MidCH20525-836.5



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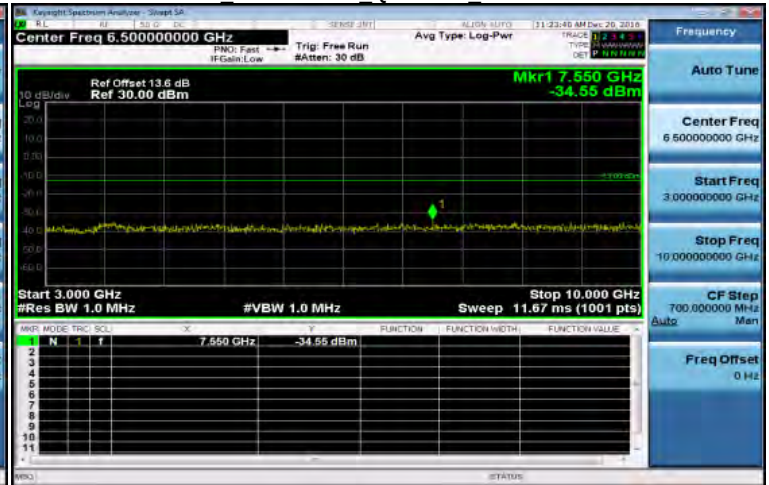
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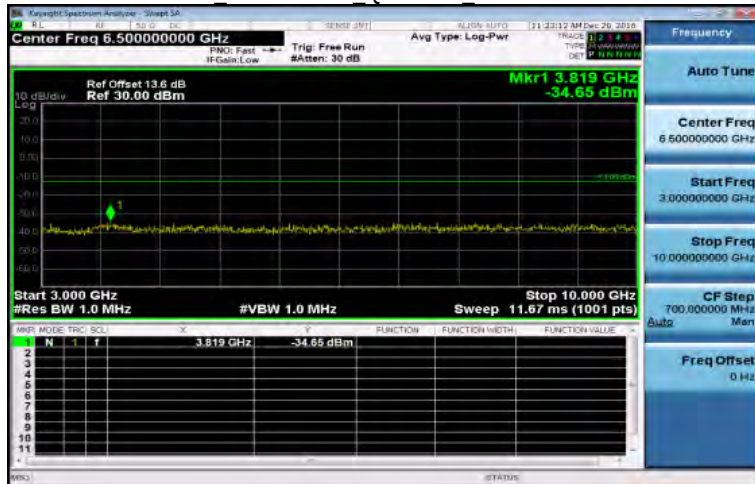
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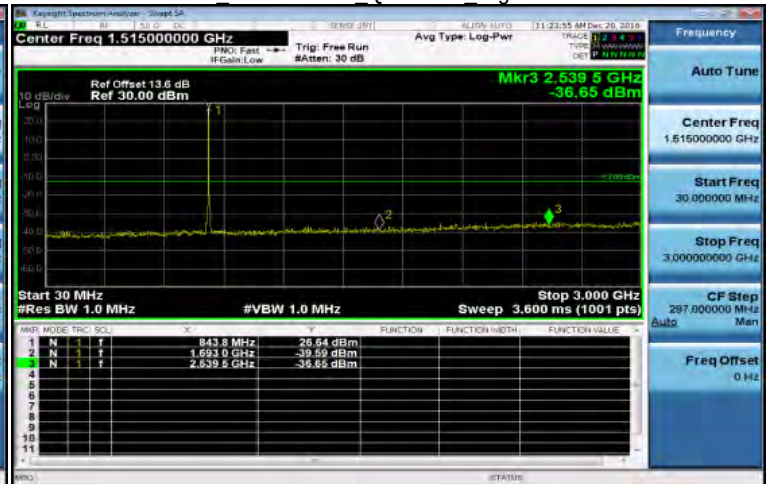
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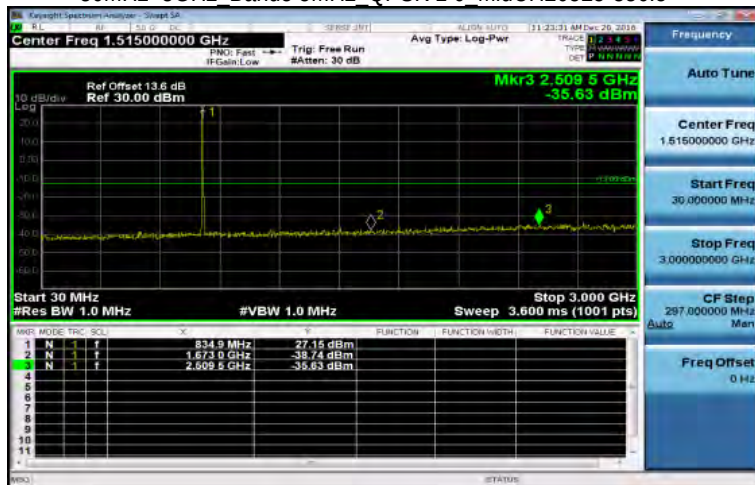
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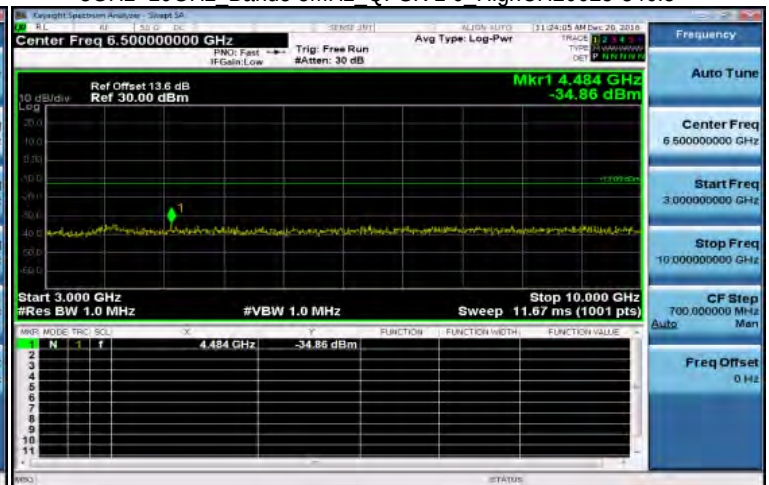
30MHz~3GHz Band5 5MHz QPSK 1 0 HighCH20625-846.5



30MHz~3GHz Band5 5MHz QPSK 1 0 MidCH20525-836.5



3GHz~10GHz Band5 5MHz QPSK 1 0 HighCH20625-846.5



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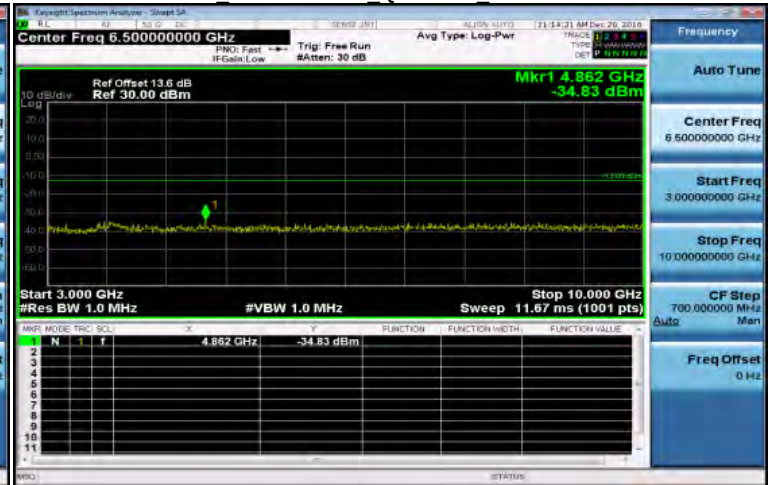
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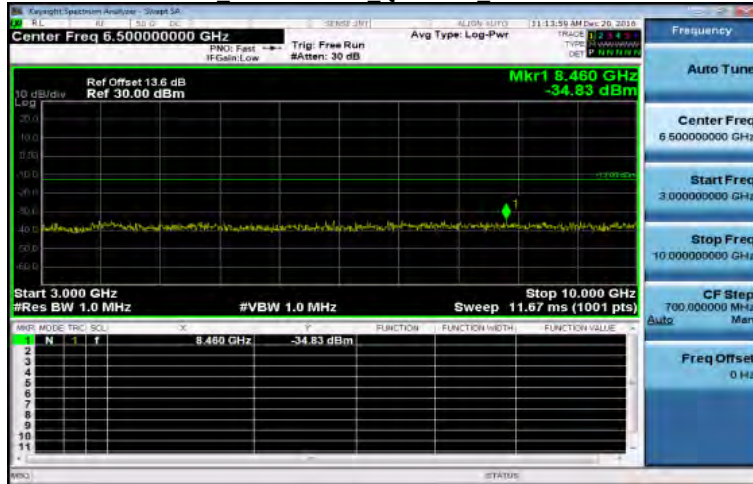
30MHz~3GHz Band5 10MHz QPSK 1 0 LowCH20450-829



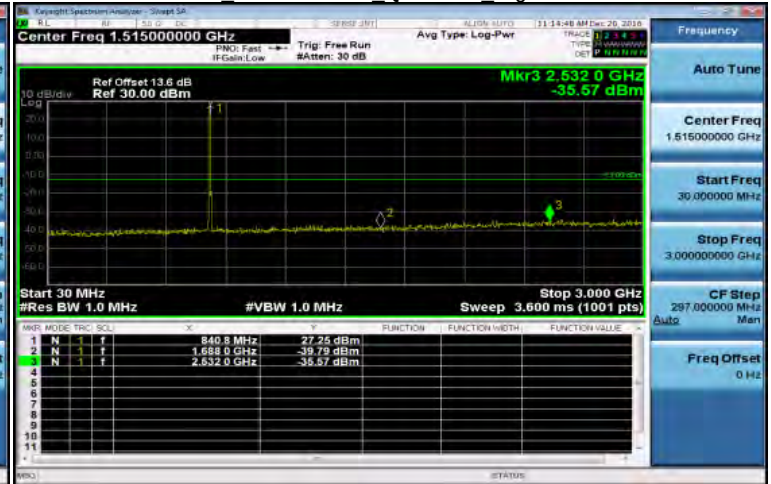
3GHz~10GHz Band5 10MHz QPSK 1 0 MidCH20525-836.5



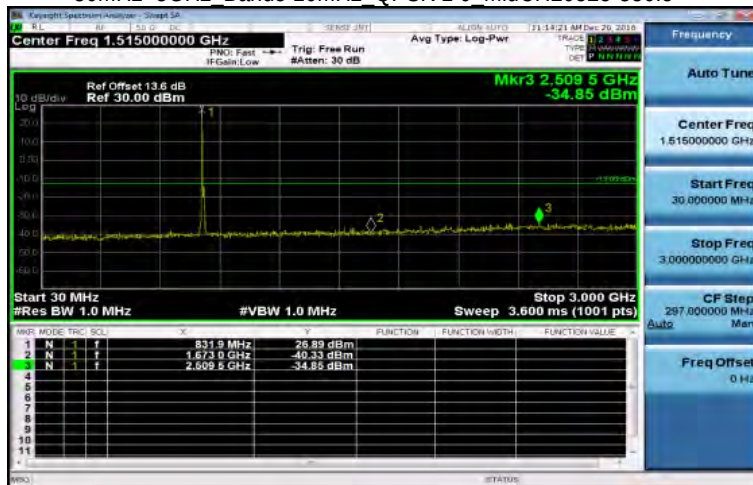
3GHz~10GHz Band5 10MHz QPSK 1 0 LowCH20450-829



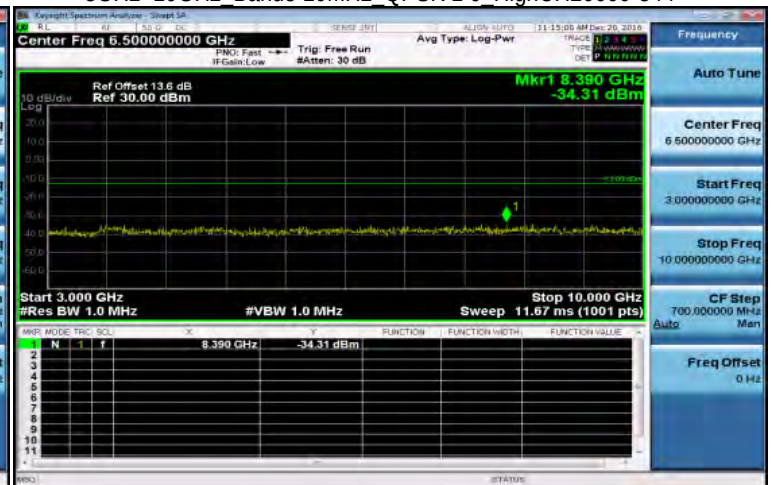
30MHz~3GHz Band5 10MHz QPSK 1 0 HighCH20600-844



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3GHz~10GHz Band5 10MHz QPSK 1 0 HighCH20600-844

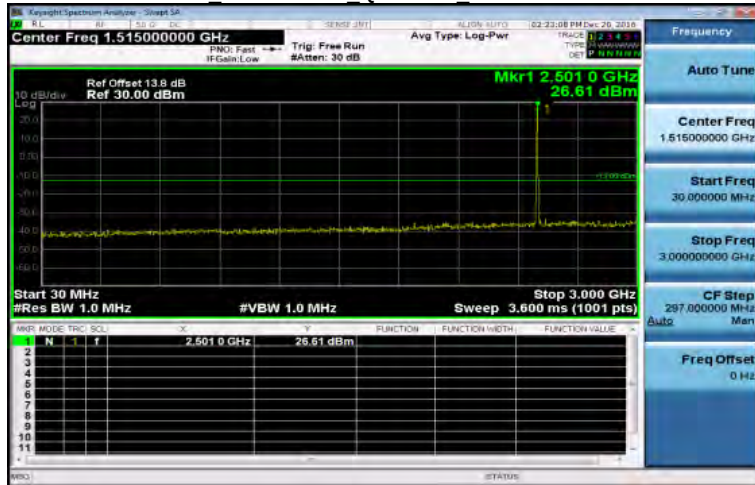


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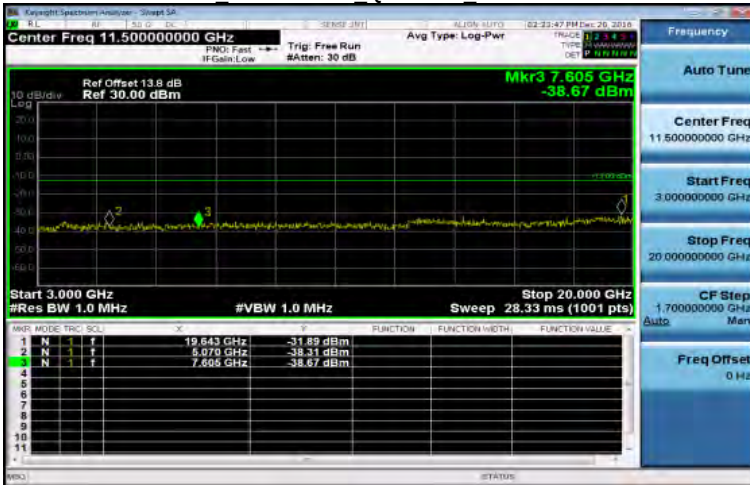
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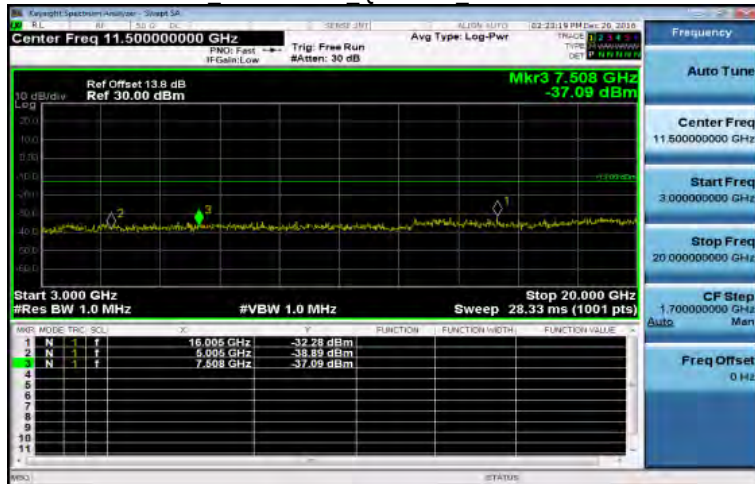
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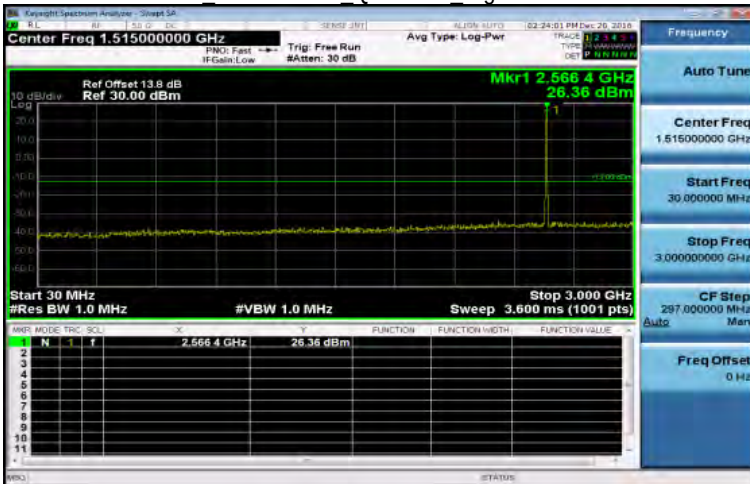
3GHz~10GHz Band7 5MHz QPSK 1 0 MidCH21100-2535



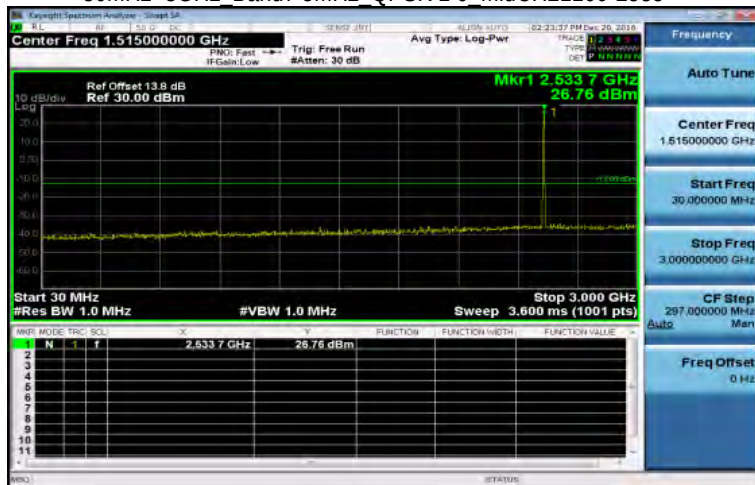
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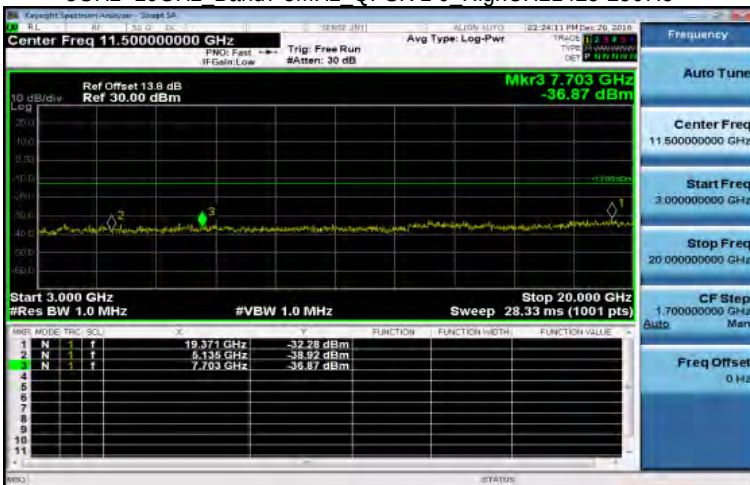
30MHz~3GHz Band7 5MHz QPSK 1 0 HighCH21425-2567.5



30MHz~3GHz Band7 5MHz QPSK 1 0 MidCH21100-2535



3GHz~10GHz Band7 5MHz QPSK 1 0 HighCH21425-2567.5

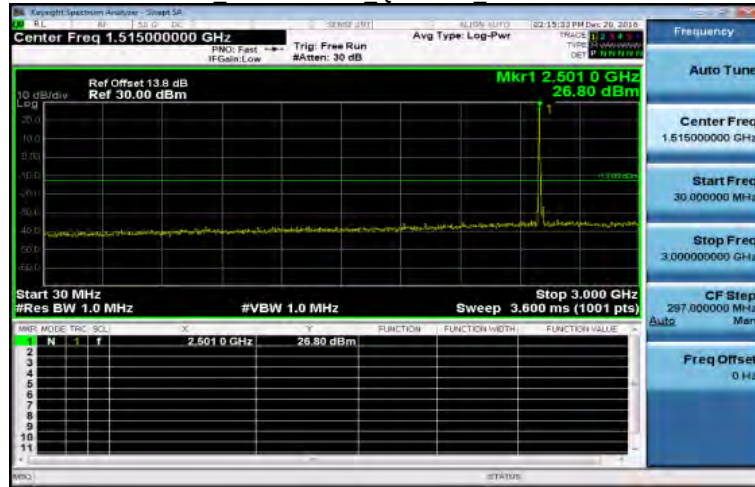


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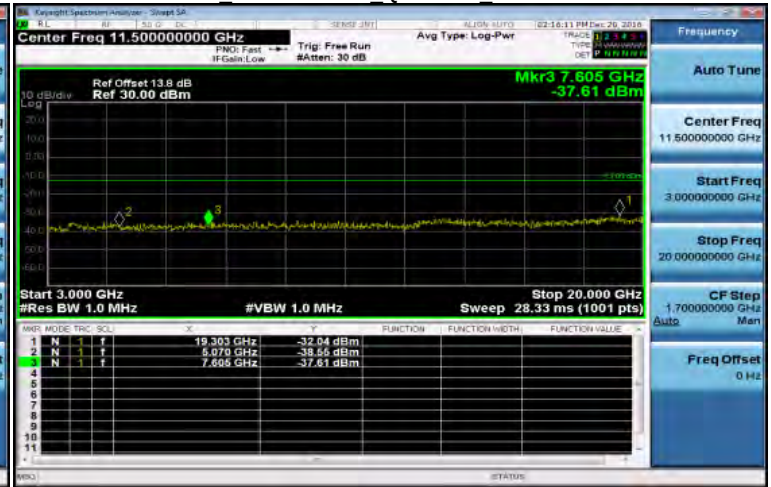
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30MHz~3GHz Band7 10MHz QPSK 1 0 LowCH20800-2505



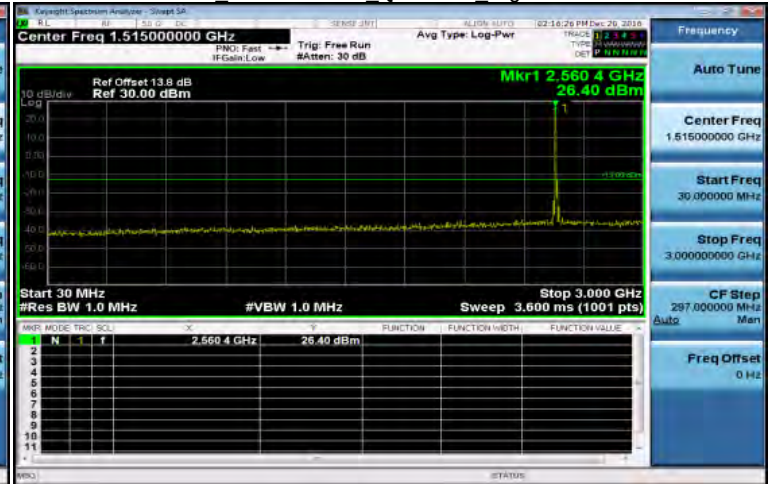
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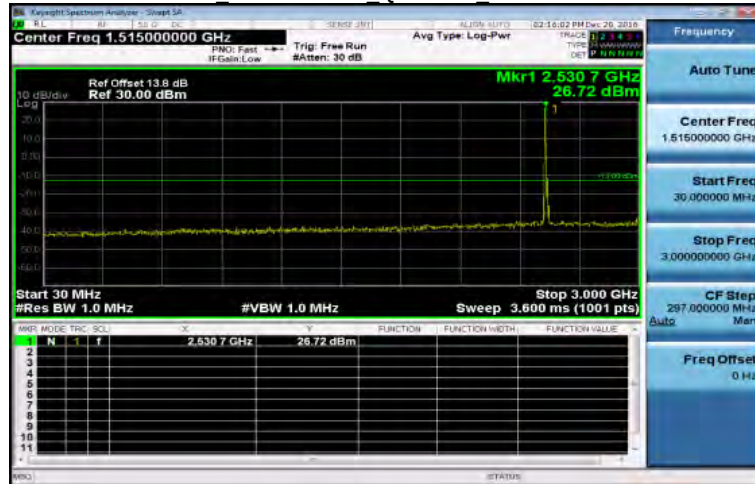
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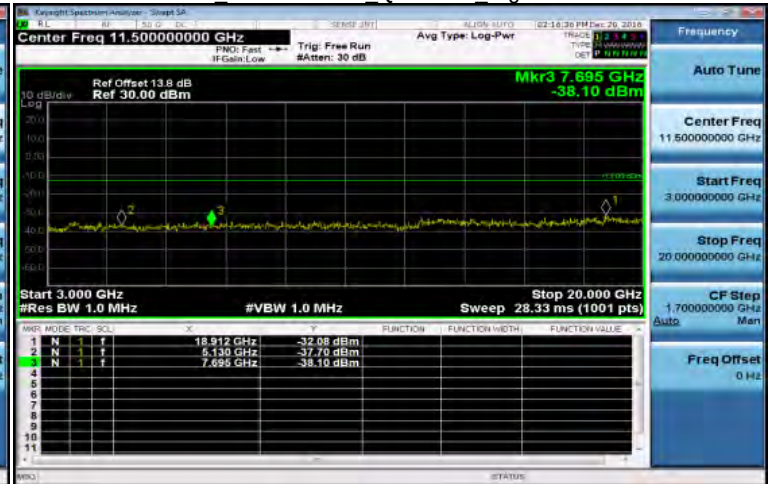
30MHz~3GHz Band7 10MHz QPSK 1 0 HighCH21400-2565



30MHz~3GHz Band7 10MHz QPSK 1 0 MidCH21100-2535



3GHz~10GHz Band7 10MHz QPSK 1 0 HighCH21400-2565

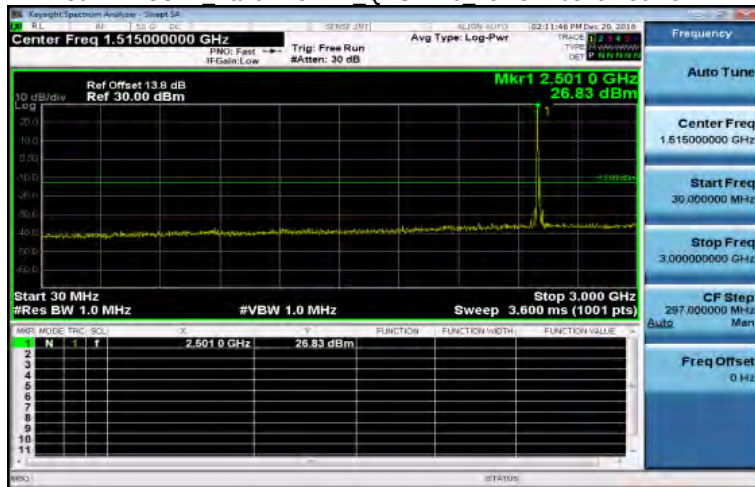


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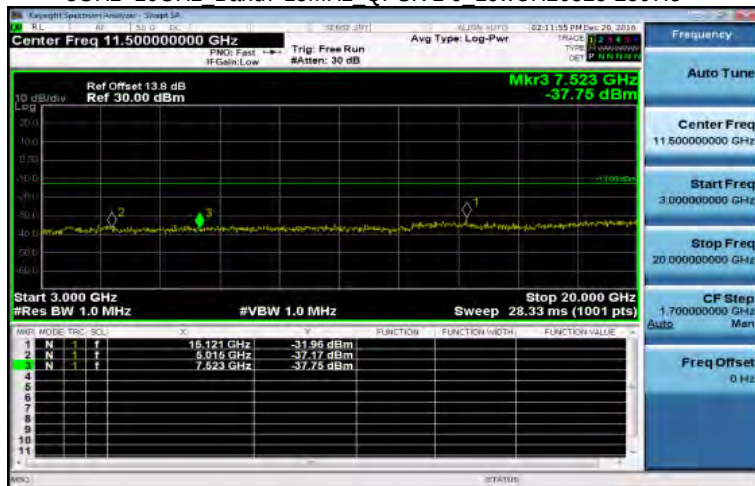
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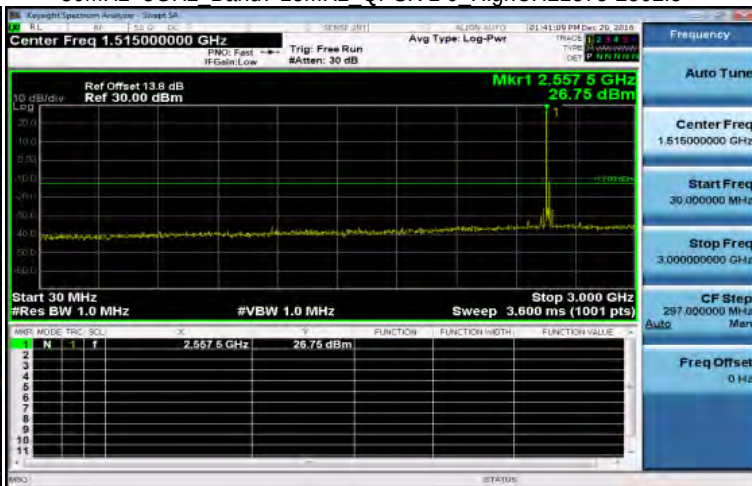
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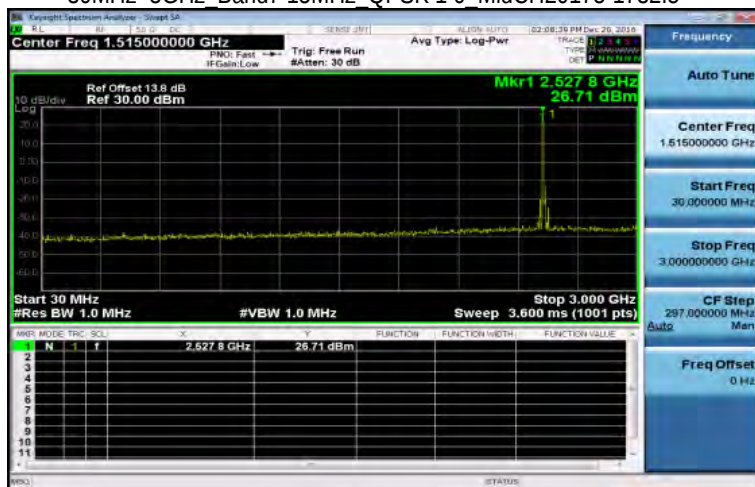
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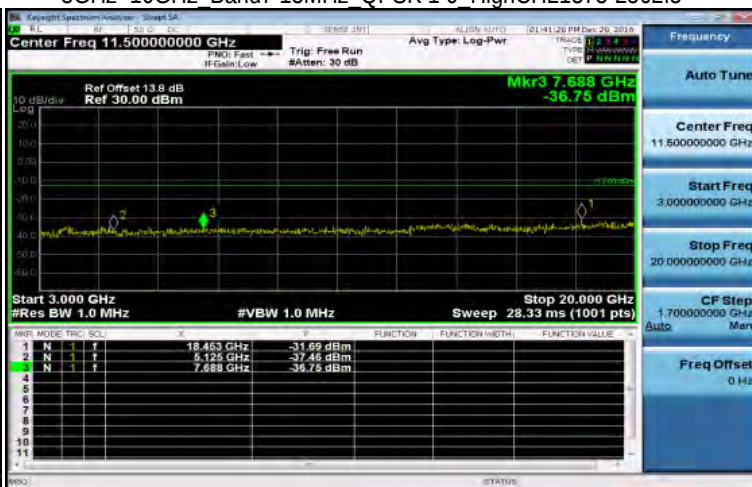
30MHz~3GHz Band7 15MHz QPSK 1 0 HighCH21375-2562.5



30MHz~3GHz Band7 15MHz QPSK 1 0 MidCH20175-1732.5



3GHz~10GHz Band7 15MHz QPSK 1 0 HighCH21375-2562.5

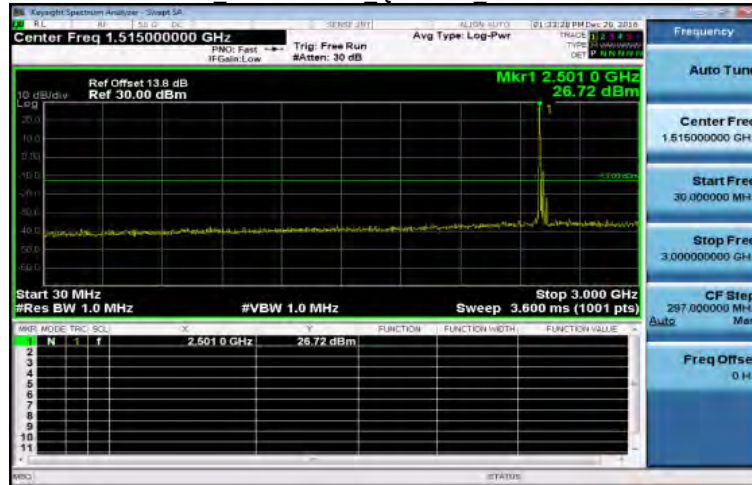


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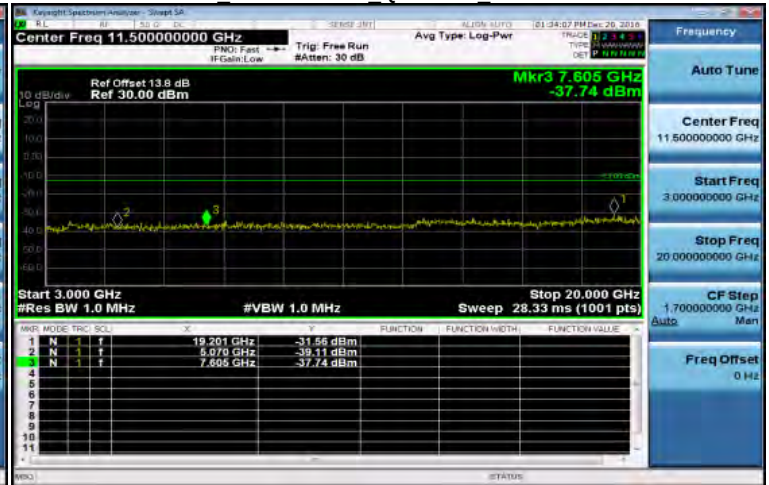
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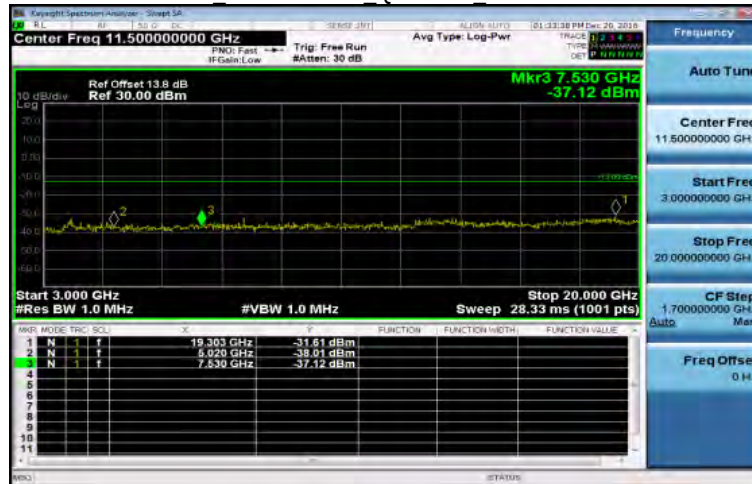
30MHz~3GHz Band7 20MHz QPSK 1 0 LowCH20850-2510



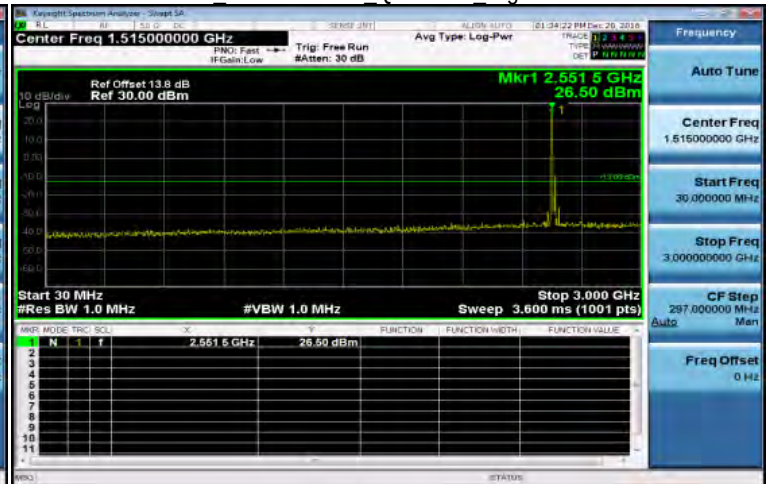
3GHz~10GHz Band7 20MHz QPSK 1 0 MidCH21100-2535



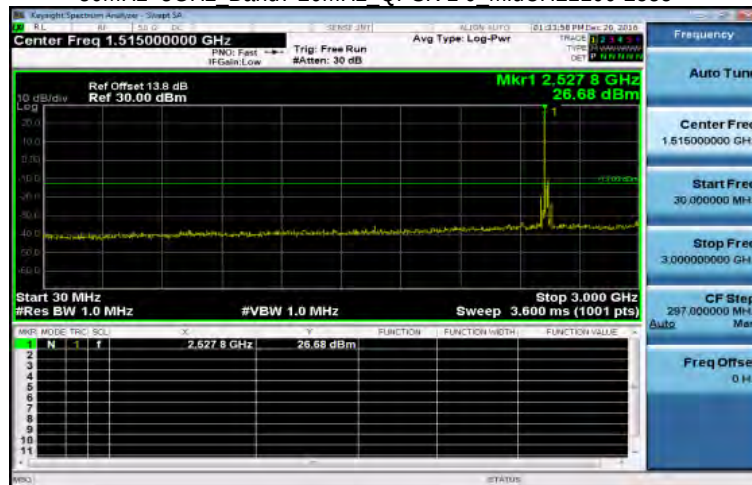
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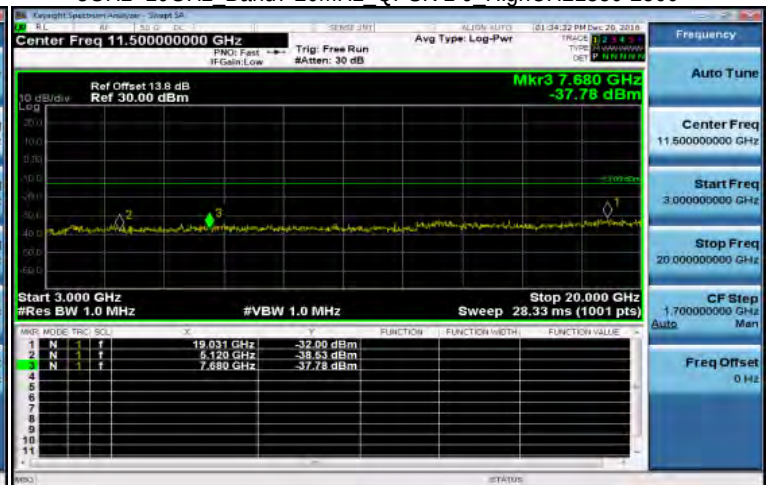
30MHz~3GHz Band7 20MHz QPSK 1 0 HighCH21350-2560



30MHz~3GHz Band7 20MHz QPSK 1 0 MidCH21100-2535



3GHz~10GHz Band7 20MHz QPSK 1 0 HighCH21350-2560

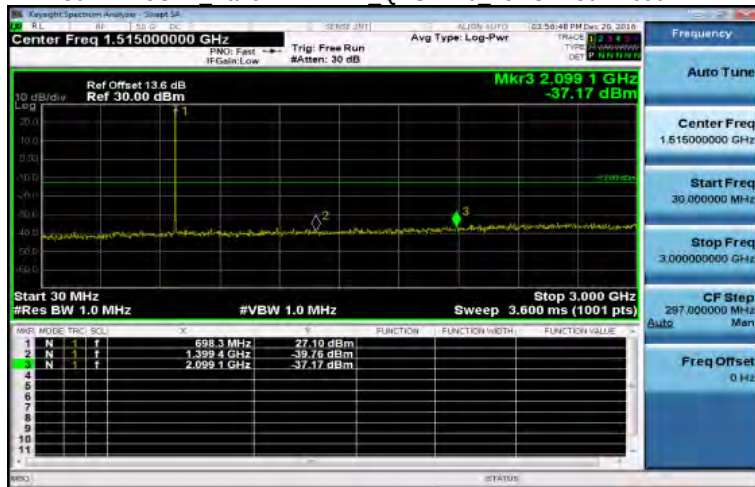


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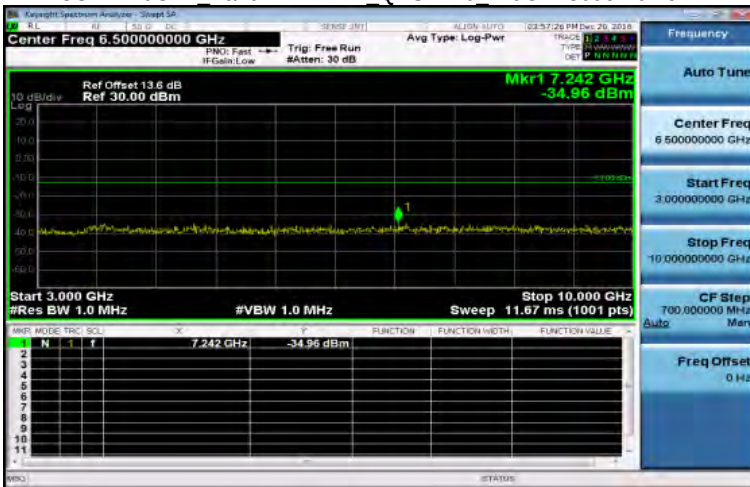
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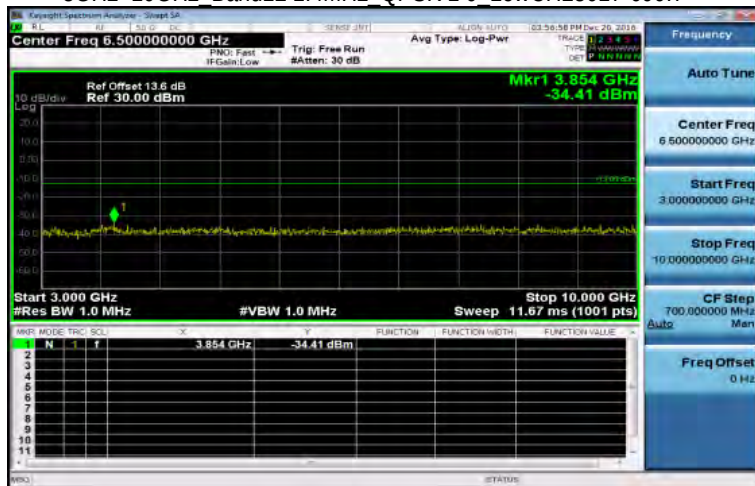
30MHz~3GHz Band12 1.4MHz QPSK 10 LowCH23017-699.7



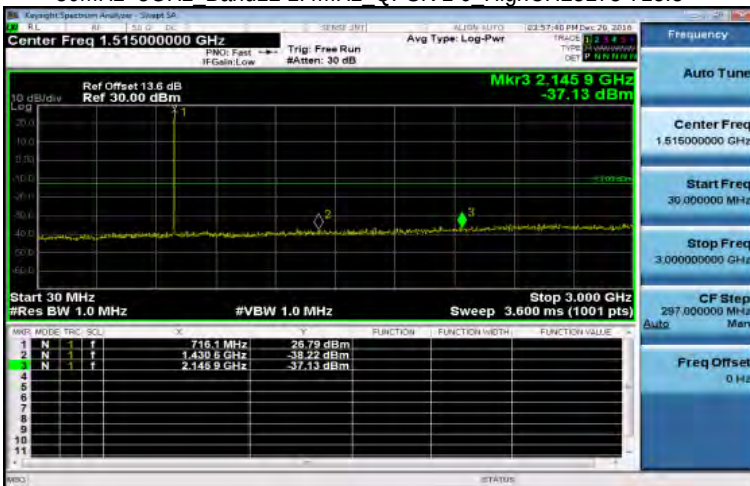
3GHz~10GHz Band12 1.4MHz QPSK 10 MidCH23095-707.5



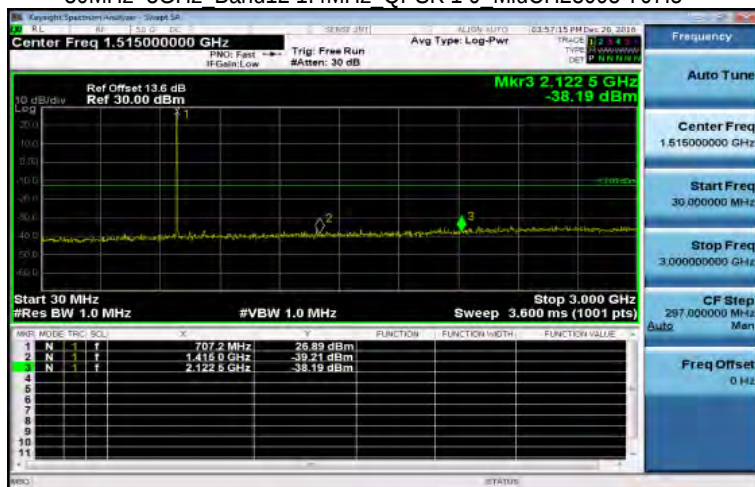
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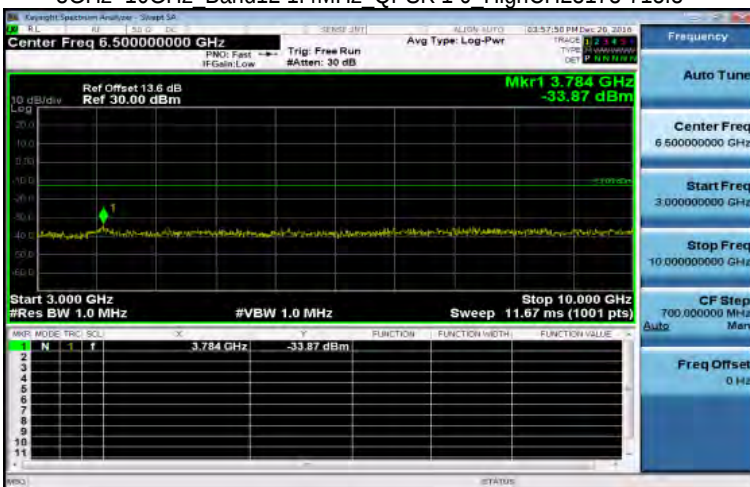
30MHz~3GHz Band12 1.4MHz QPSK 10 HighCH23173-715.3



30MHz~3GHz Band12 1.4MHz QPSK 10 MidCH23095-707.5



3GHz~10GHz Band12 1.4MHz QPSK 10 HighCH23173-715.3

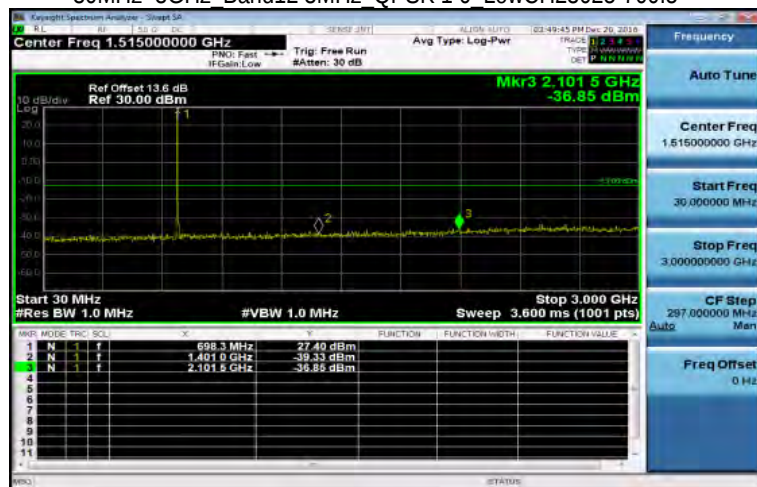


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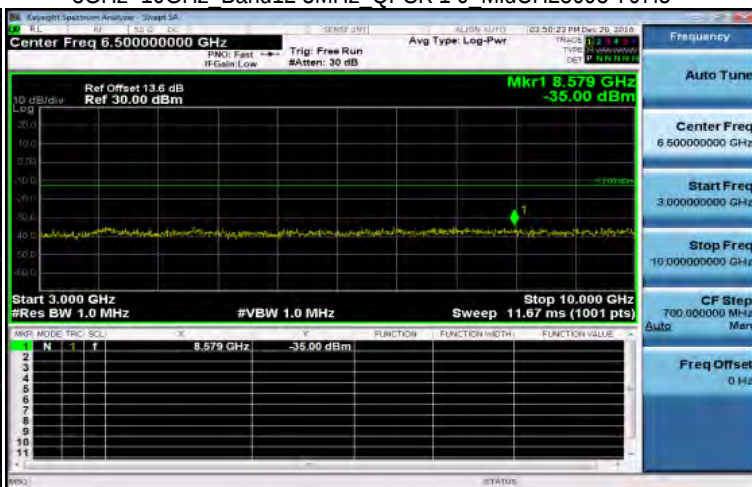
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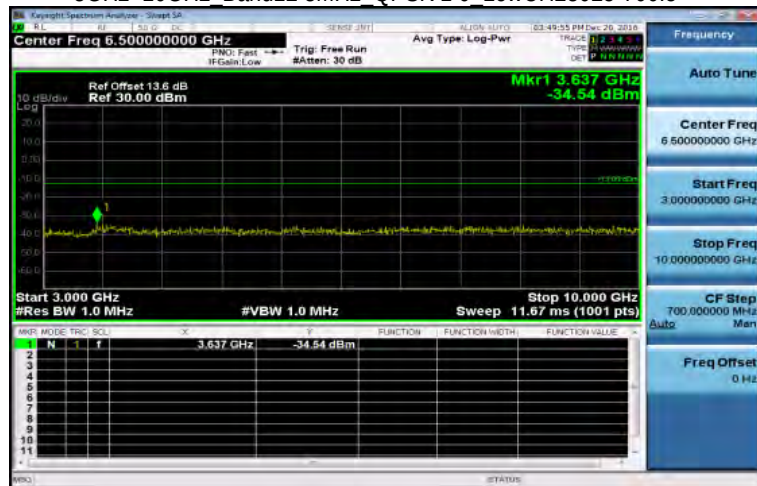
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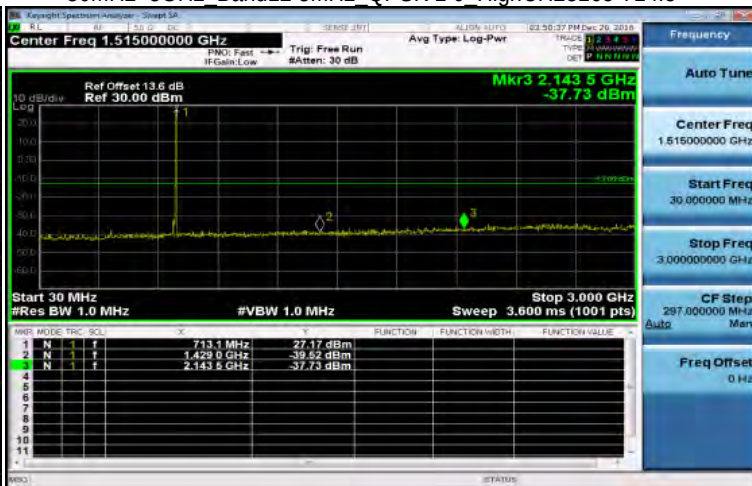
3GHz~10GHz Band12 3MHz QPSK 1 0 MidCH23095-707.5



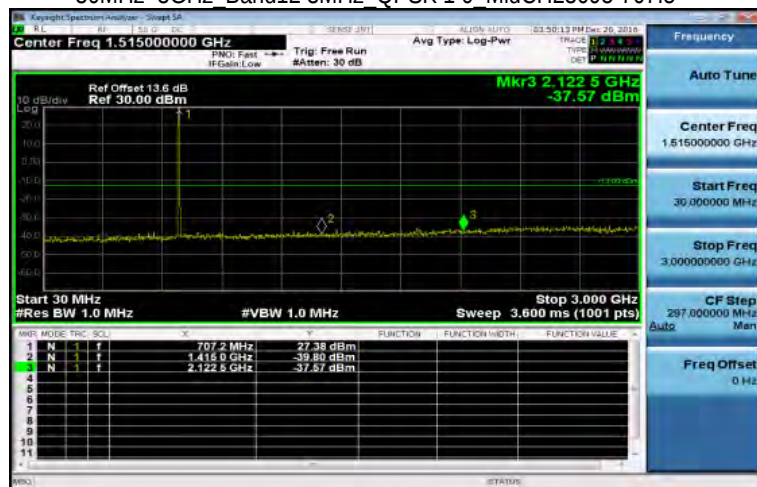
3GHz~10GHz Band12 3MHz QPSK 1 0 LowCH23025-700.5



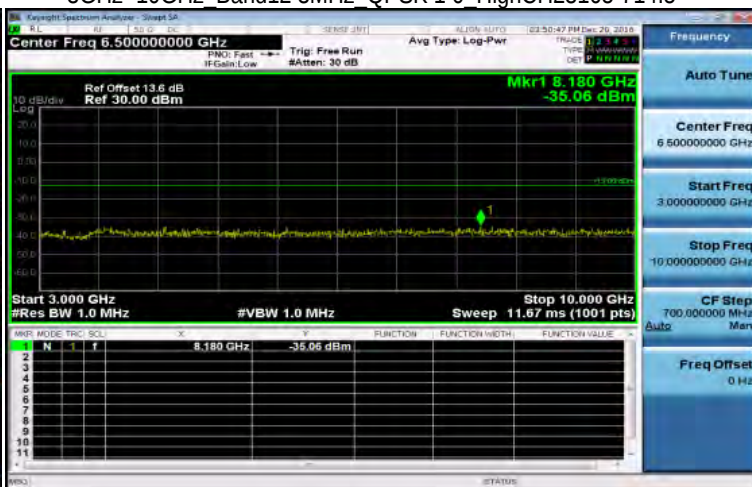
30MHz~3GHz Band12 3MHz QPSK 1 0 HighCH23165-714.5



30MHz~3GHz Band12 3MHz QPSK 1 0 MidCH23095-707.5



3GHz~10GHz Band12 3MHz QPSK 1 0 HighCH23165-714.5

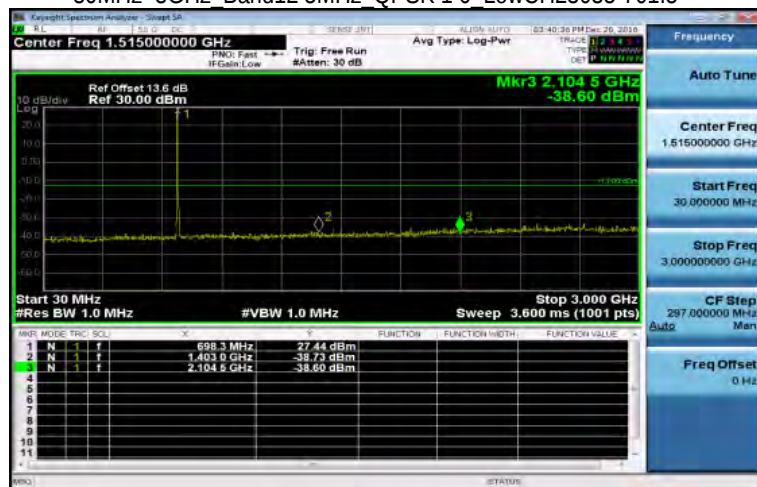


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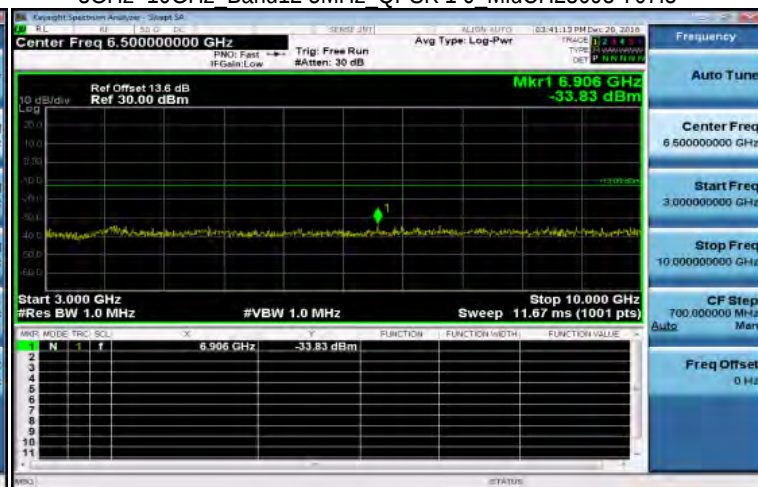
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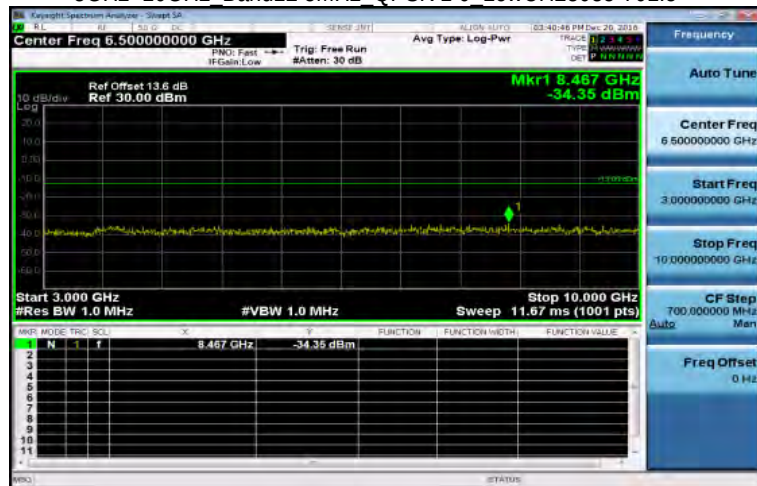
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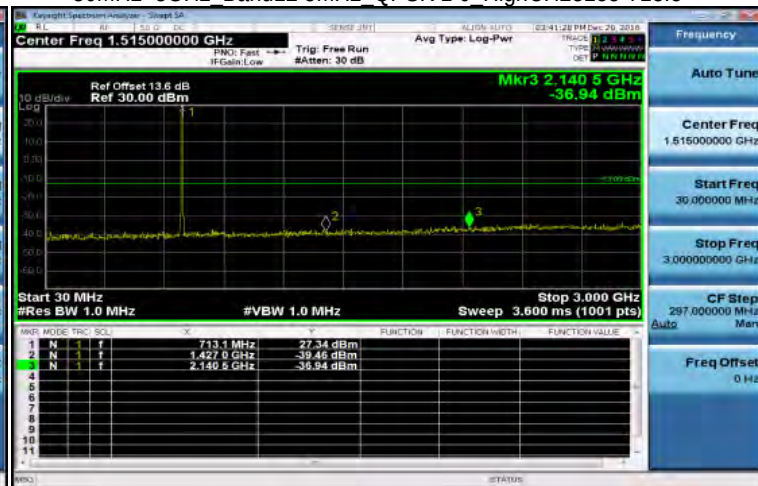
3GHz~10GHz Band12 5MHz QPSK 1 0 MidCH23095-707.5



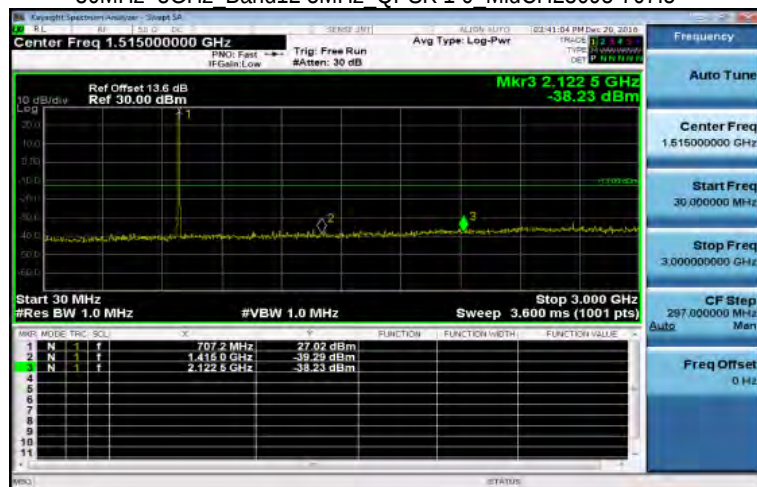
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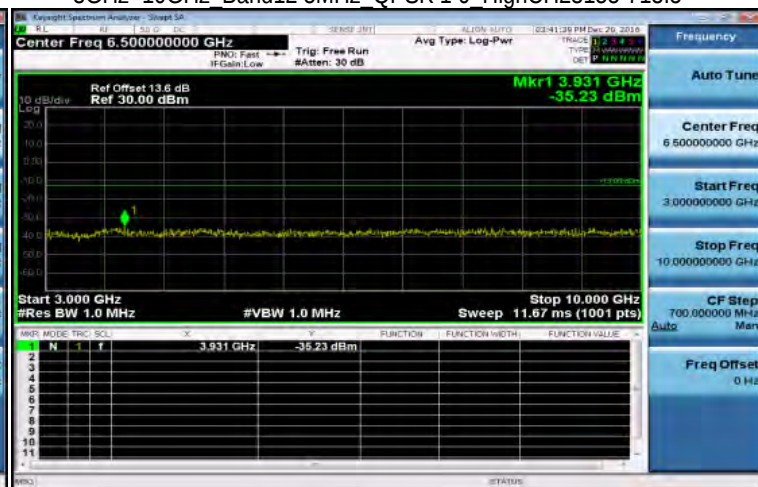
30MHz~3GHz Band12 5MHz QPSK 1 0 HighCH23155-713.5



30MHz~3GHz Band12 5MHz QPSK 1 0 MidCH23095-707.5



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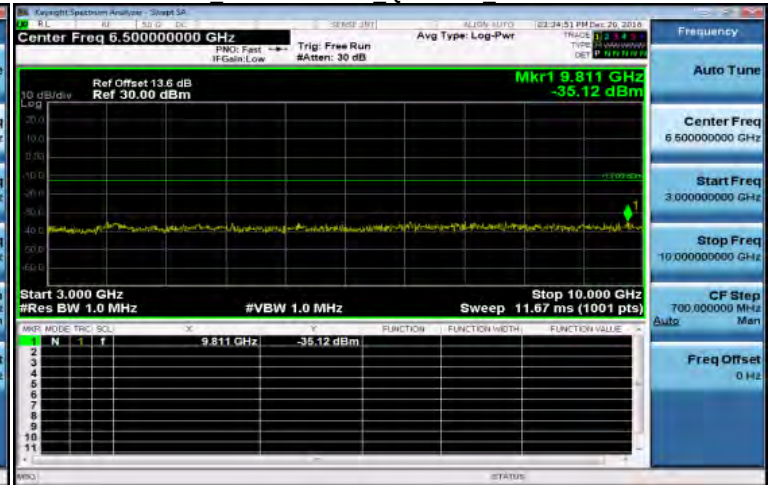
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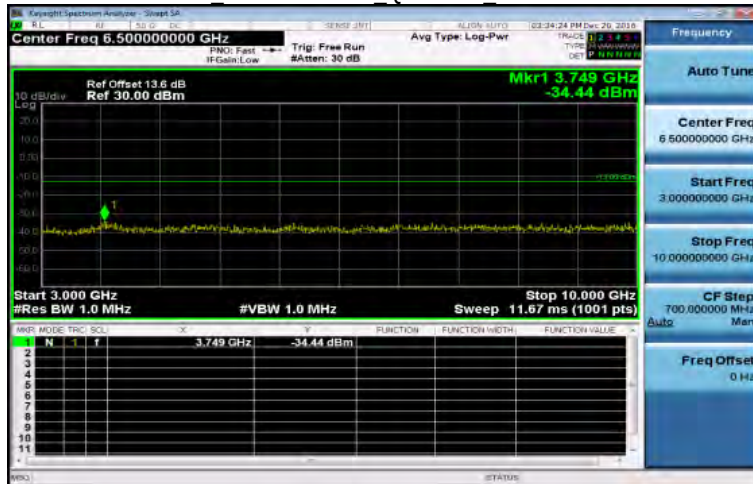
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3GHz~10GHz Band12 10MHz QPSK 1 0 MidCH23095-707.5



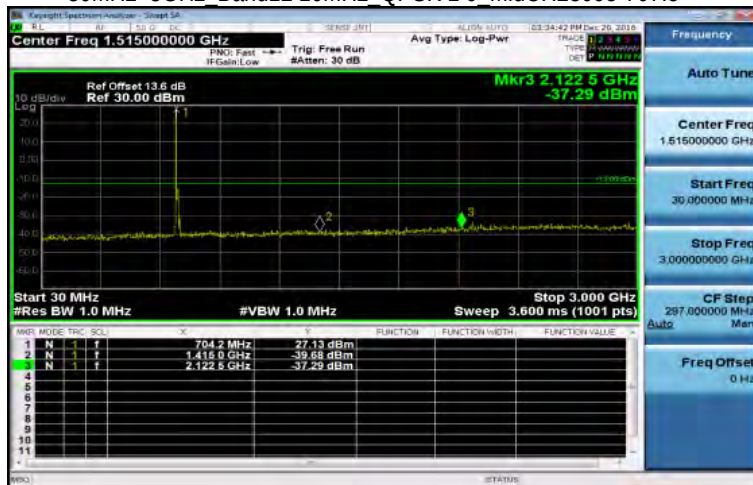
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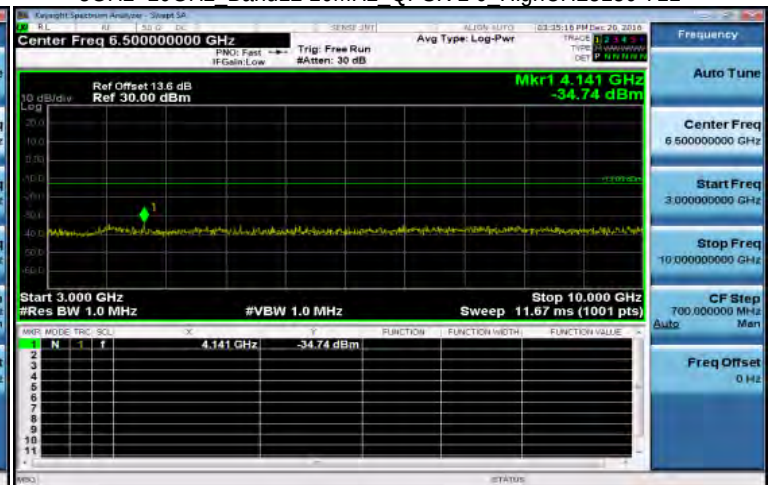
30MHz~3GHz Band12 10MHz QPSK 1 0 HighCH23130-711



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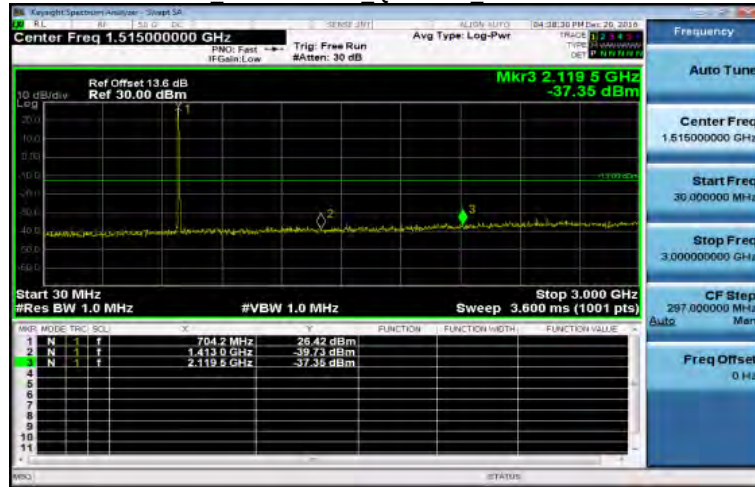


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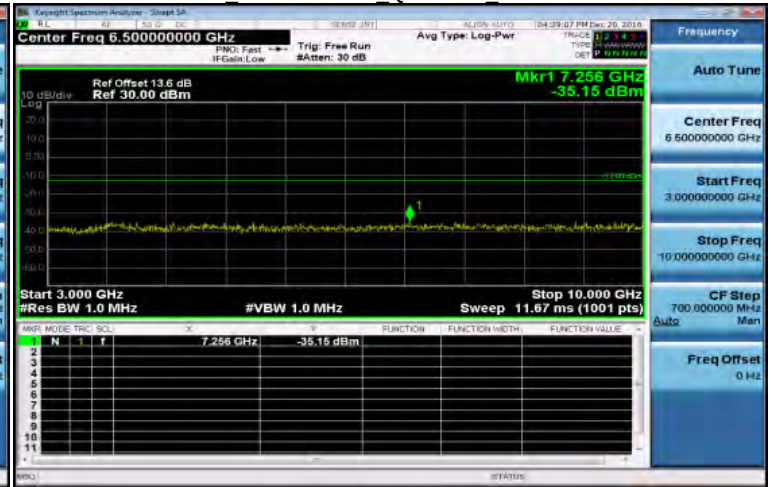
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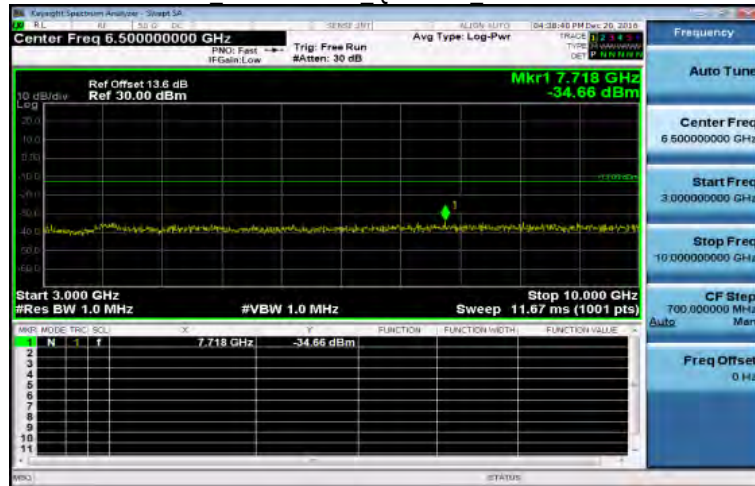
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3GHz~10GHz Band17 5MHz_QPSK 1 0_MidCH23790-710



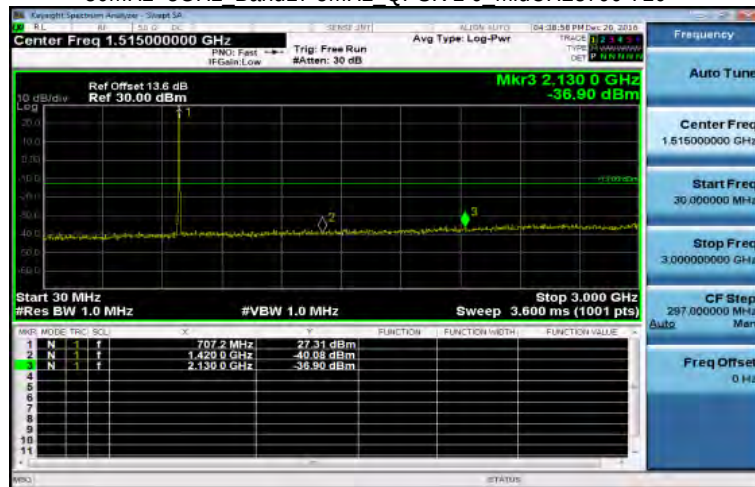
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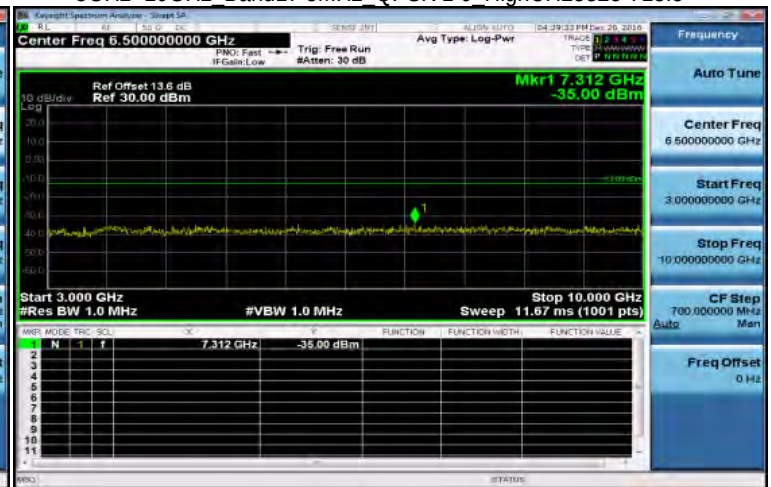
30MHz~3GHz Band17 5MHz_QPSK 1 0_HighCH23825-713.5



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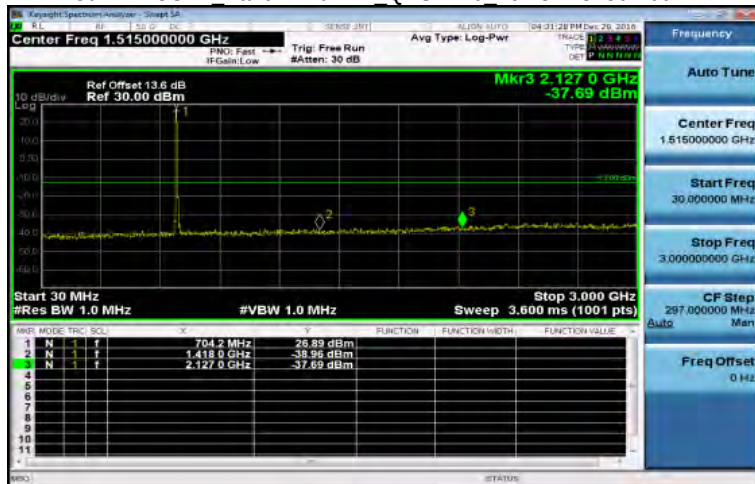


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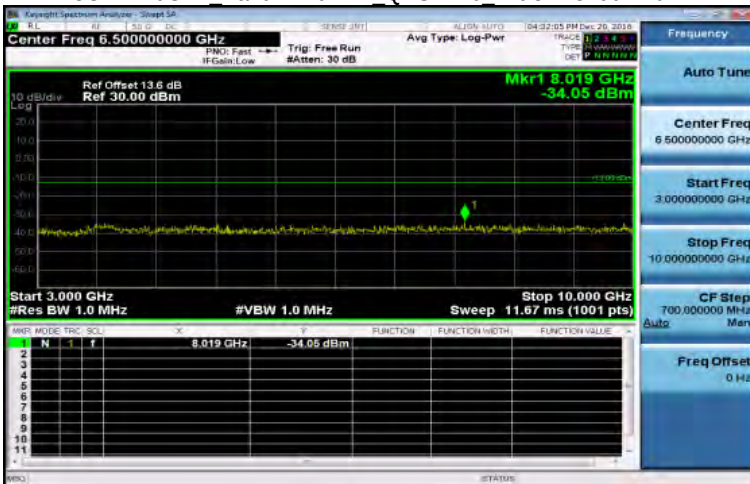
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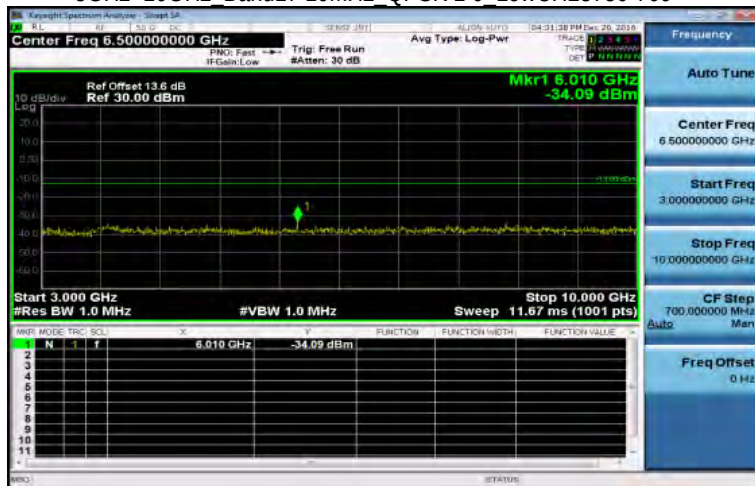
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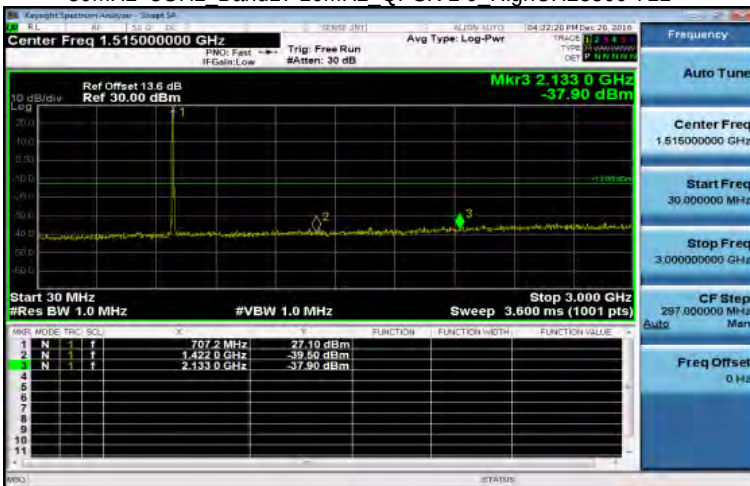
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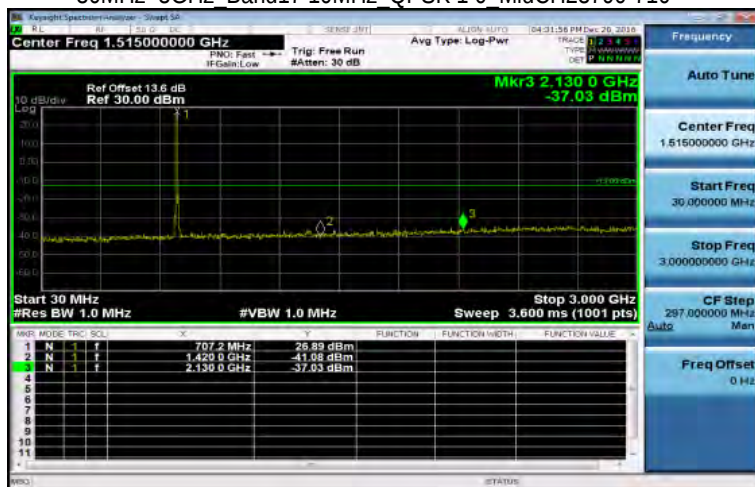
3GHz~10GHz Band17 10MHz QPSK 1 0 LowCH23780-709



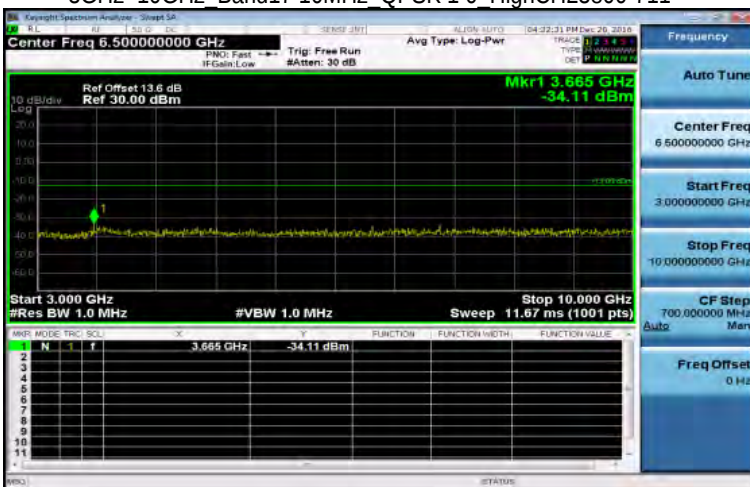
30MHz~3GHz Band17 10MHz QPSK 1 0 HighCH23800-711



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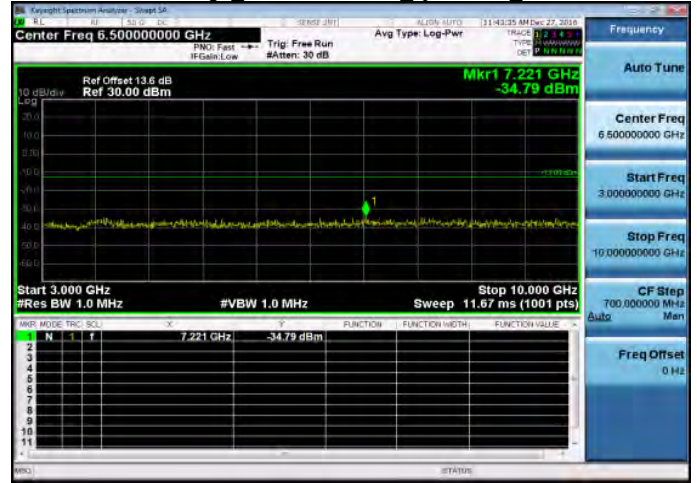
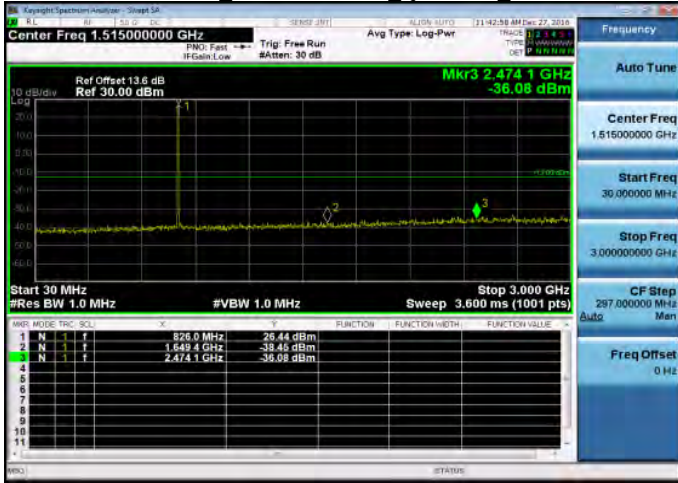


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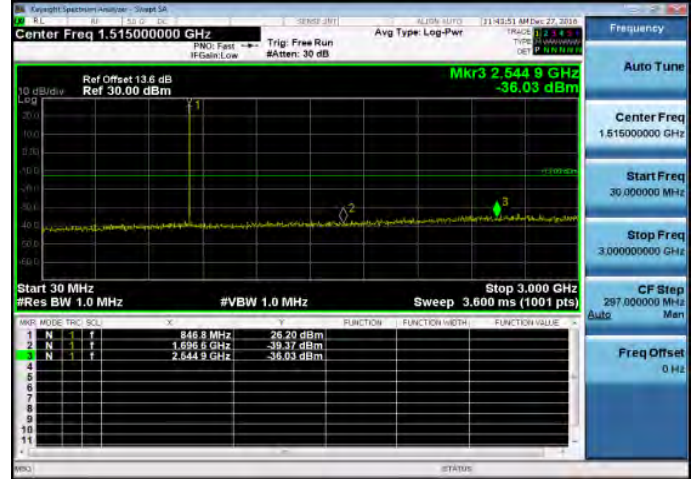
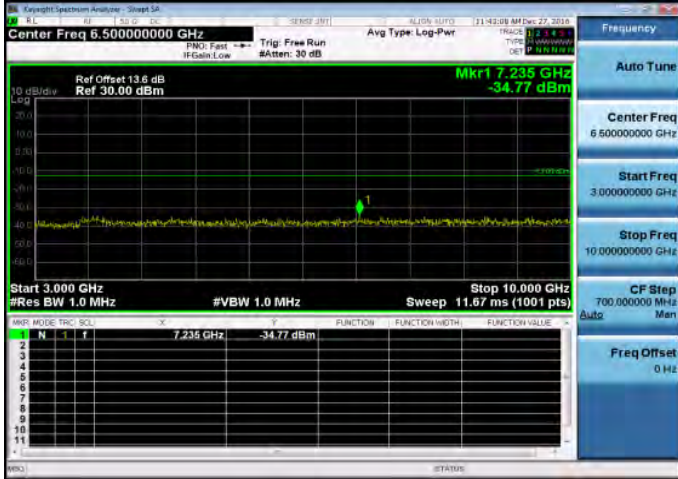
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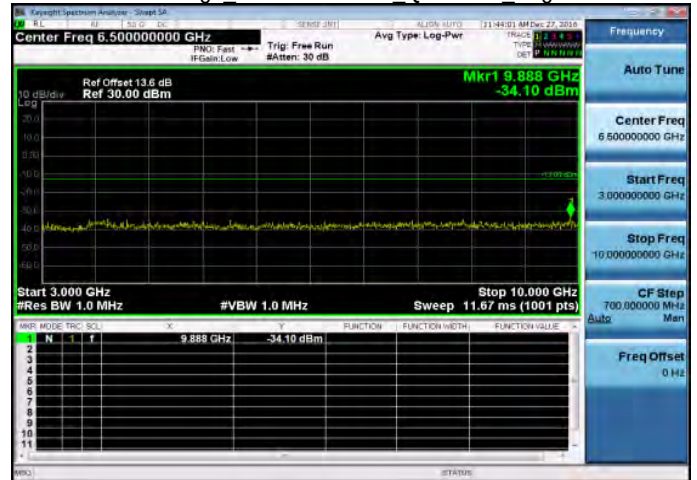
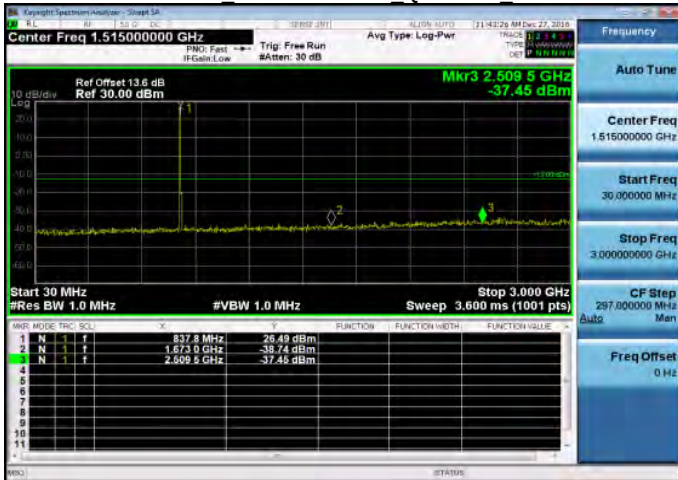
Out of Band Emission Low Band26 1.4MHz QPSK 1 0 LowCH26797-824.7 Out of Band Emission High Band26 1.4MHz QPSK 1 0 MidCH26915-836.5



Out of Band Emission High Band26 1.4MHz QPSK 1 0 LowCH26797-824.7 Out of Band Emission Low Band26 1.4MHz QPSK 1 0 HighCH27033-848.3



Out of Band Emission Low Band26 1.4MHz QPSK 1 0 MidCH26915-836.5 Out of Band Emission High Band26 1.4MHz QPSK 1 0 HighCH27033-848.3

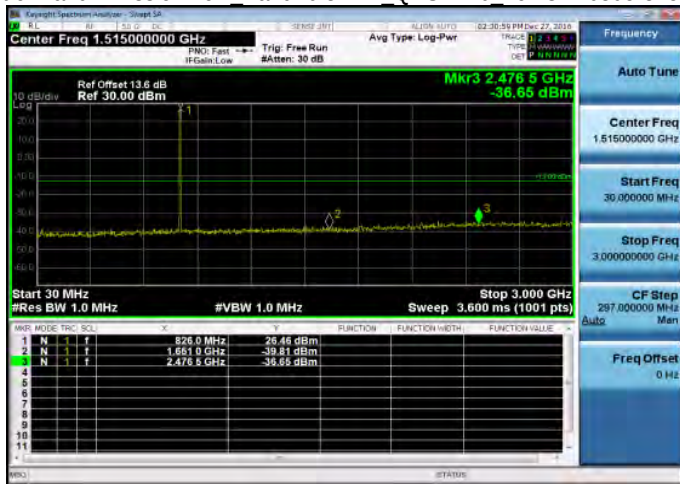


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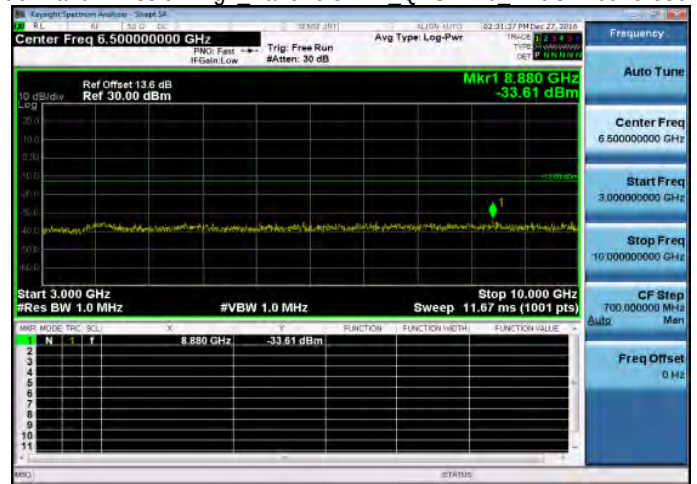
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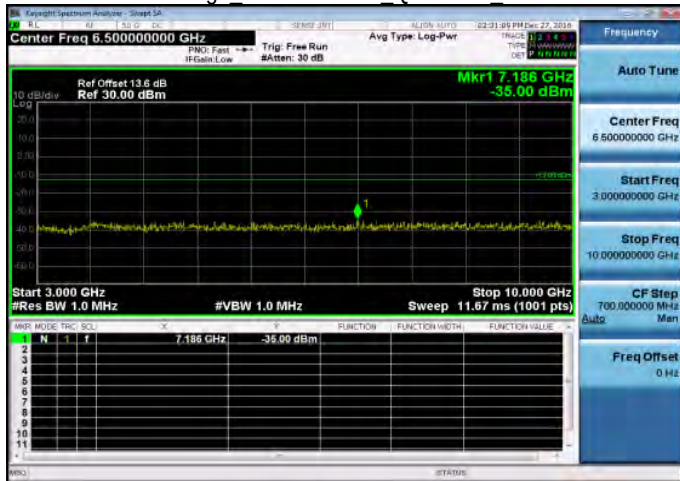
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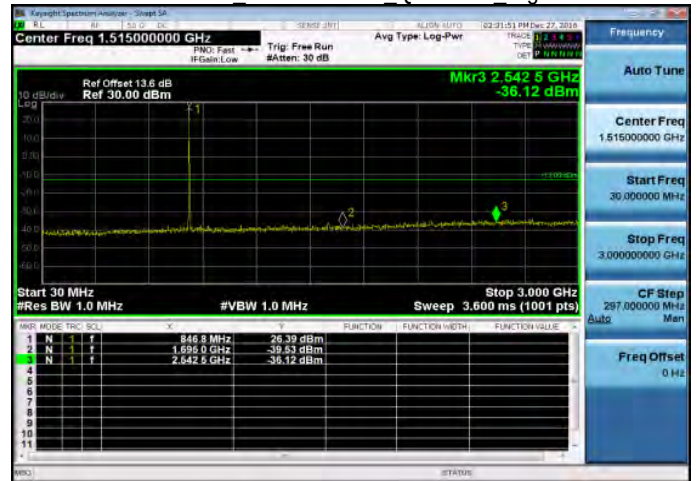
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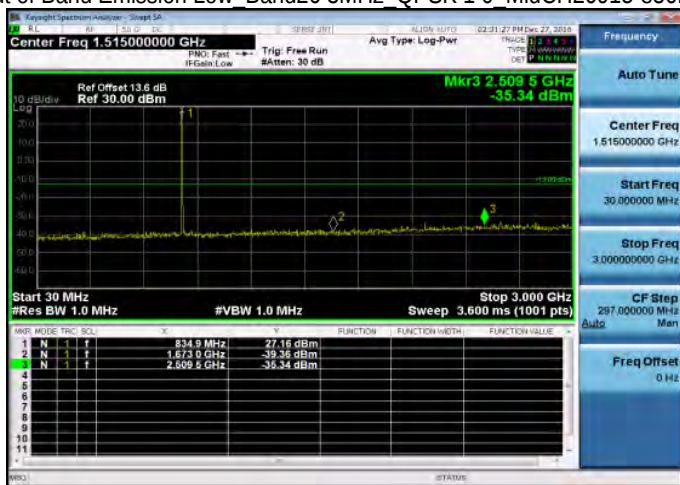
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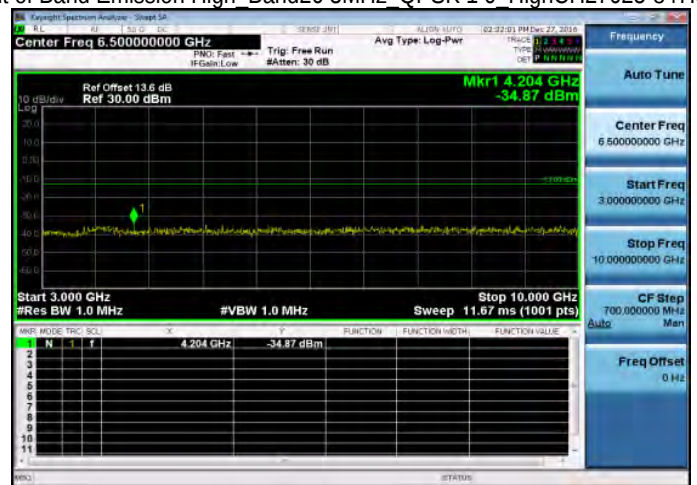
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Out of Band Emission Low Band26 3MHz QPSK 1.0 MidCH26915-836.5



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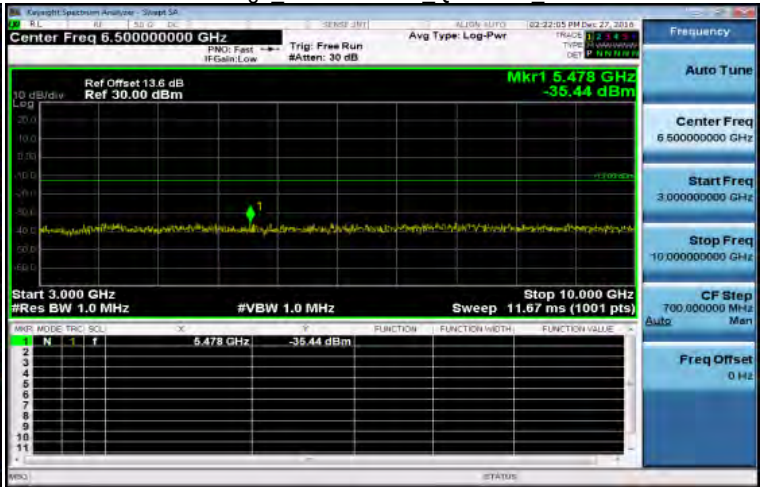
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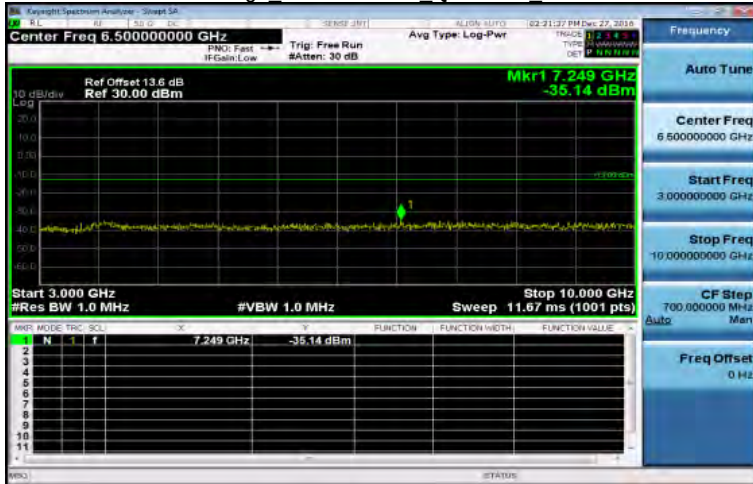
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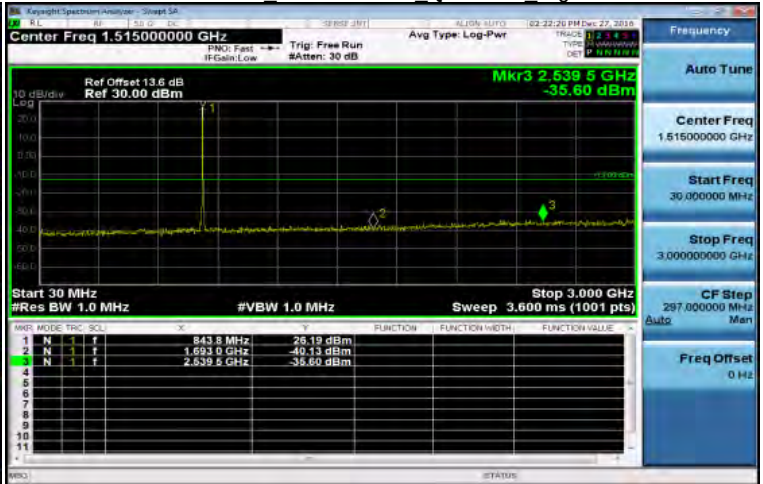
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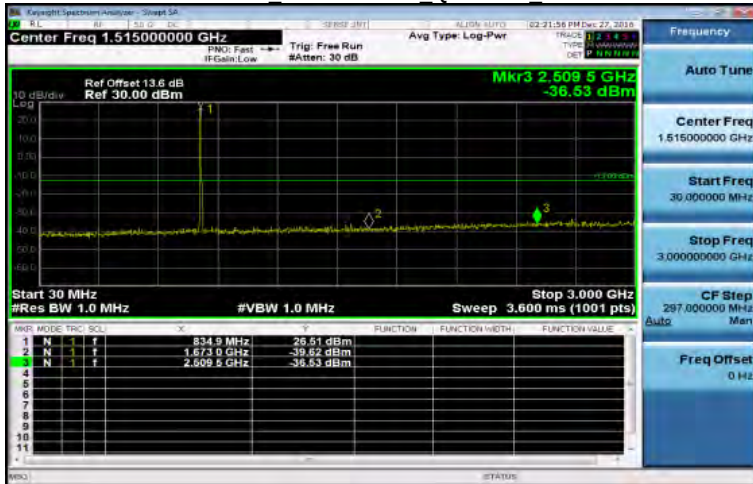
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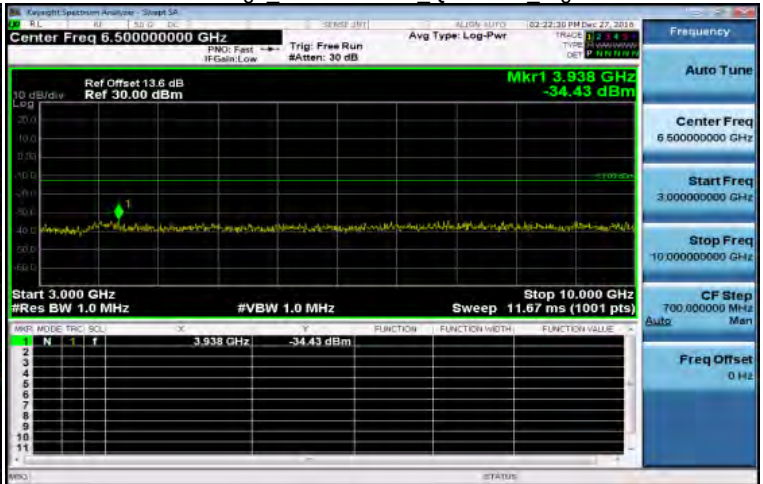
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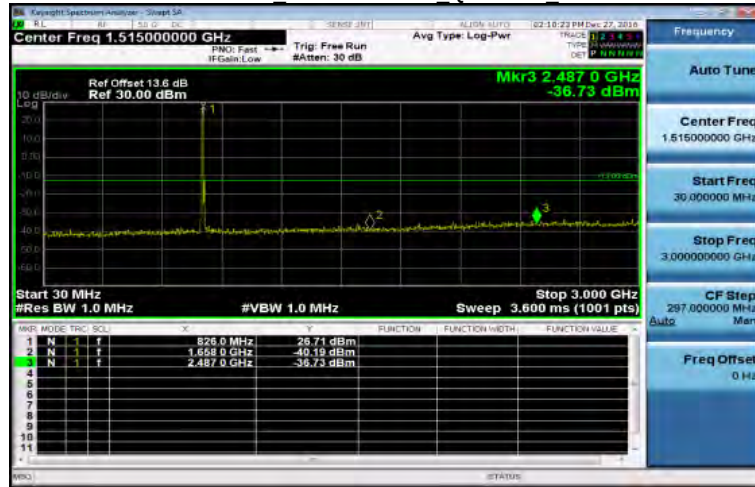


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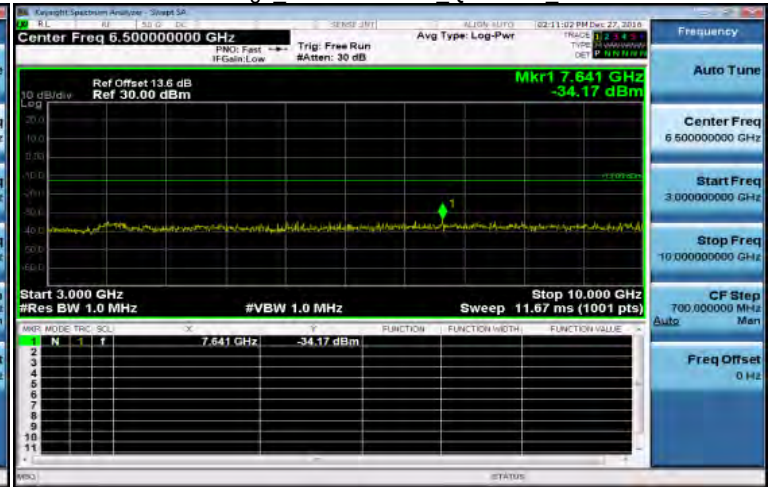
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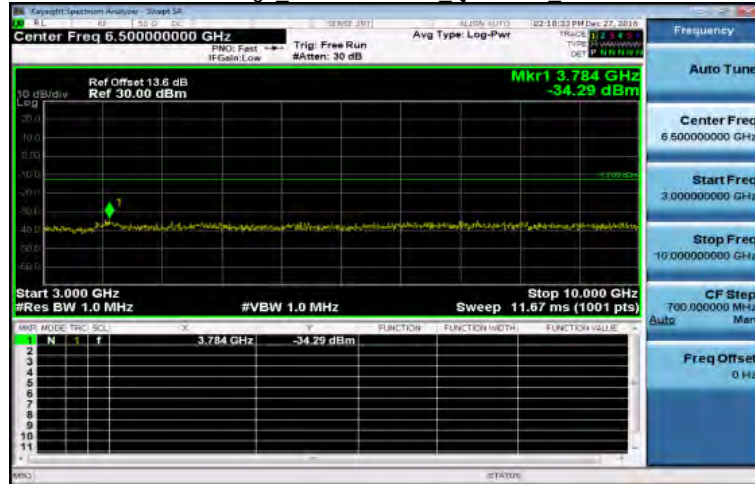
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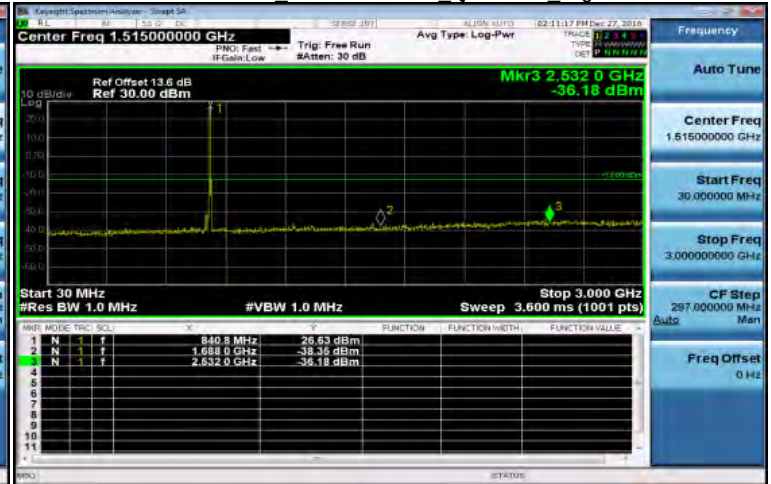
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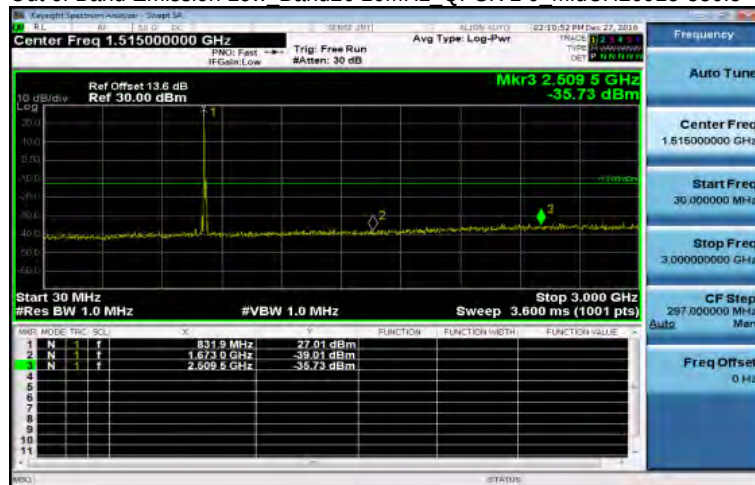
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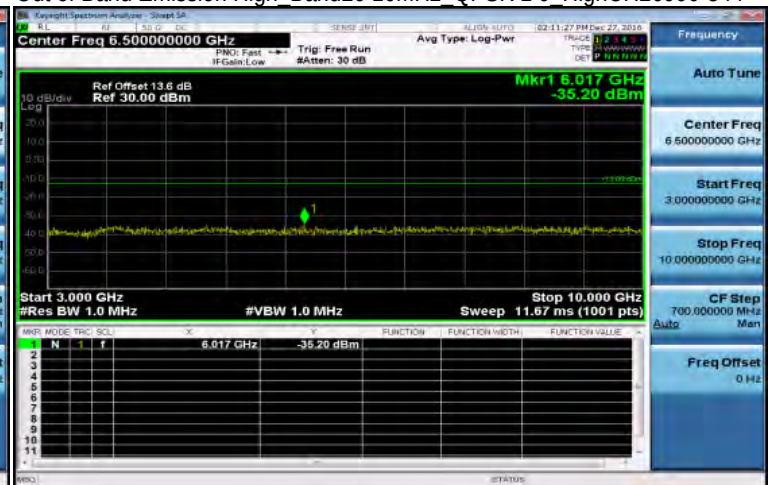
Out of Band Emission Low Band26 10MHz QPSK 1 0 HighCH26990-844



Out of Band Emission Low Band26 10MHz QPSK 1 0 MidCH26915-836.5



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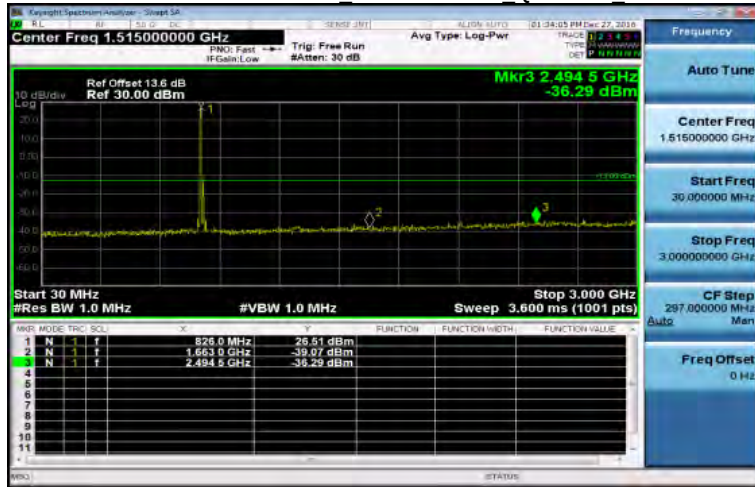


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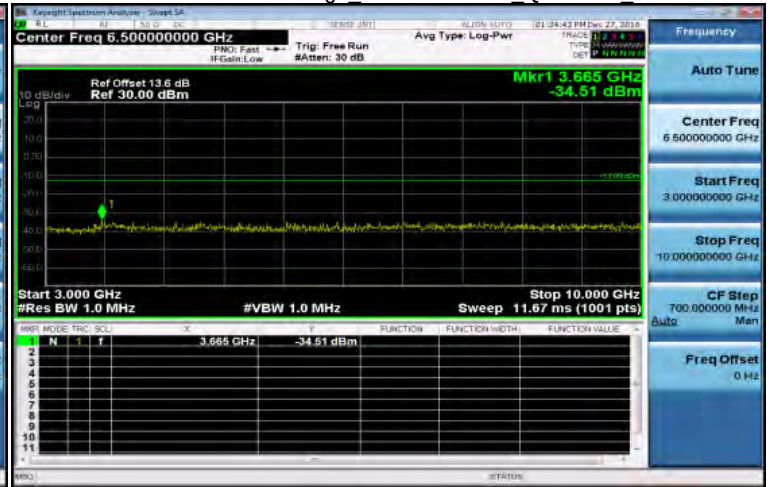
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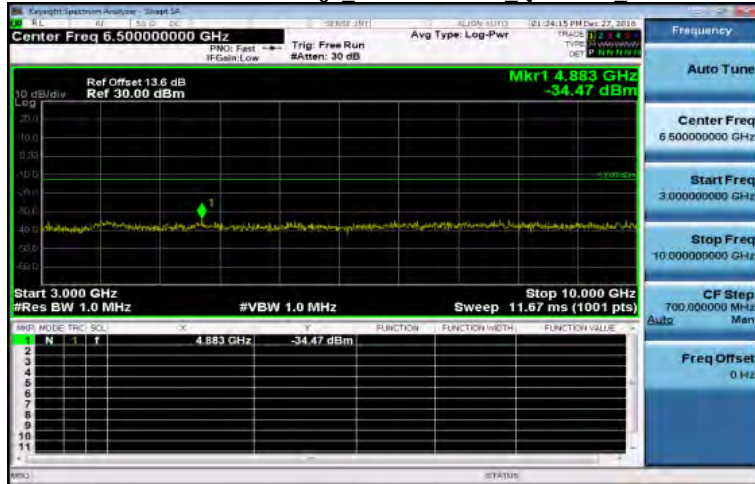
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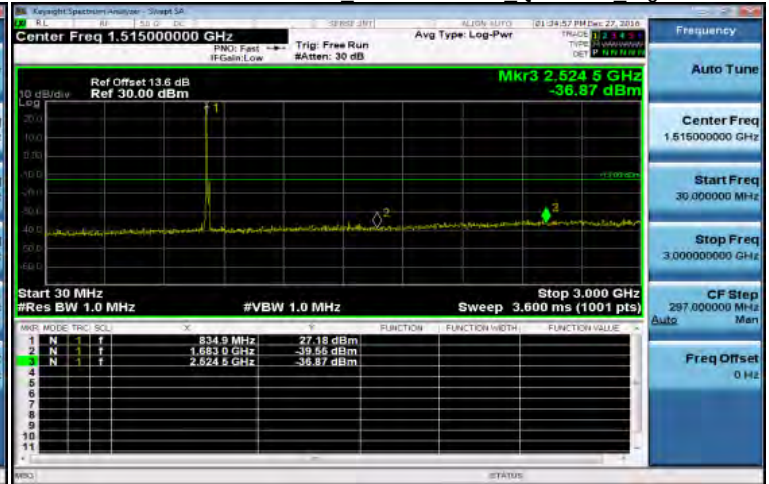
Out of Band Emission High Band26 15MHz QPSK 1 0 Mid



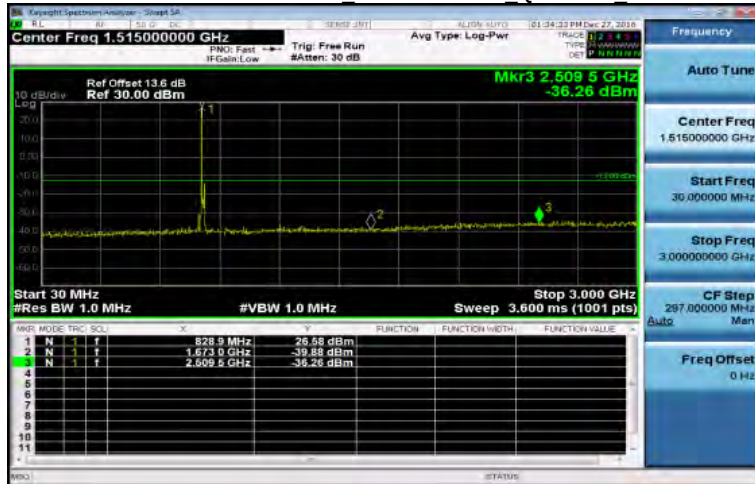
Out of Band Emission High Band26 15MHz QPSK 1 0 Low



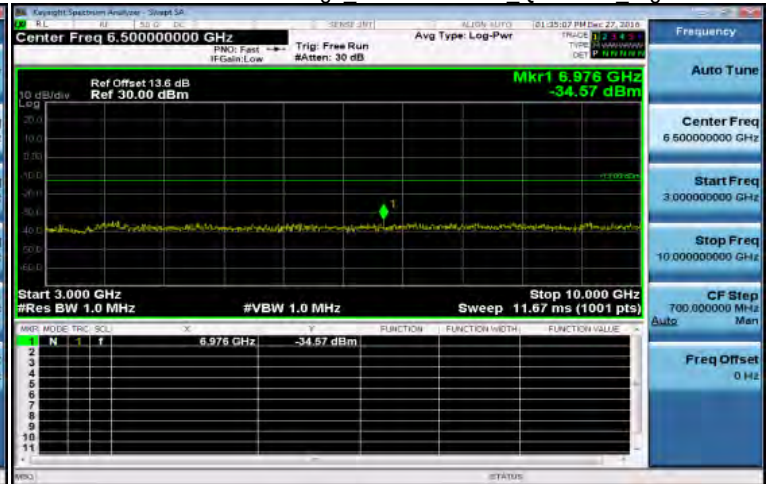
Out of Band Emission Low Band26 15MHz QPSK 1 0 High



Out of Band Emission Low Band26 15MHz QPSK 1 0 Mid



Out of Band Emission High Band26 15MHz QPSK 1 0 High

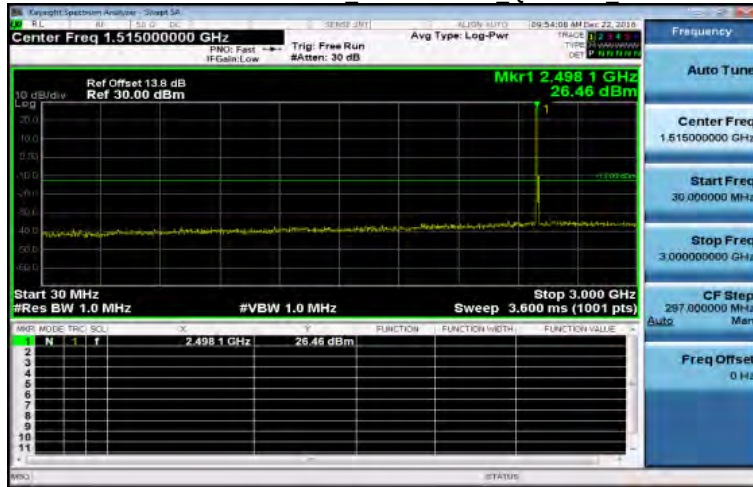


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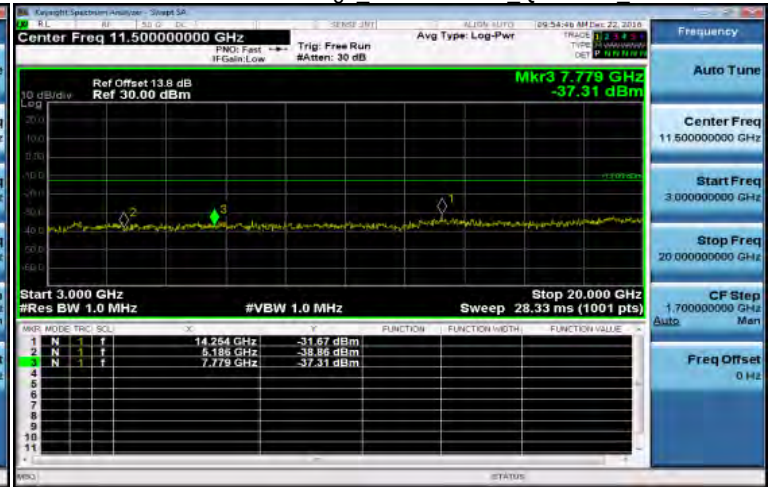
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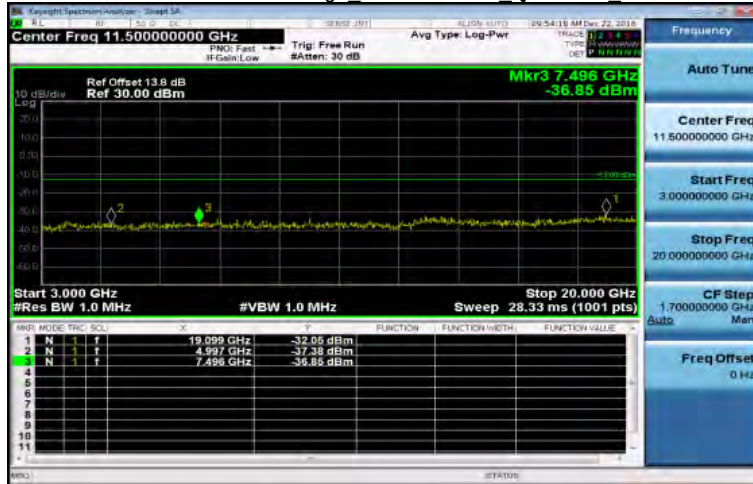
Out of Band Emission Low Band41 5MHz QPSK 1.0 Low



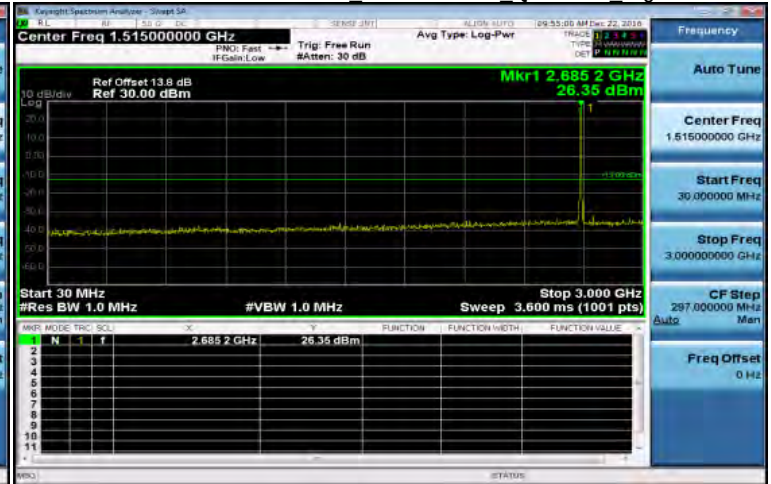
Out of Band Emission High Band41 5MHz QPSK 1.0 Mid



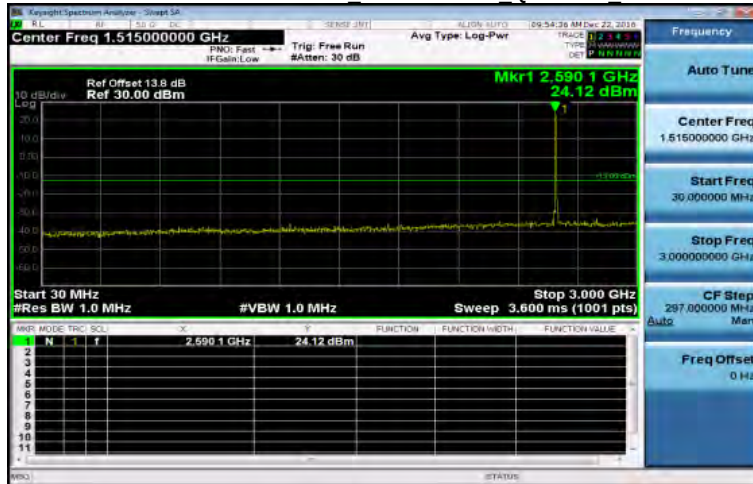
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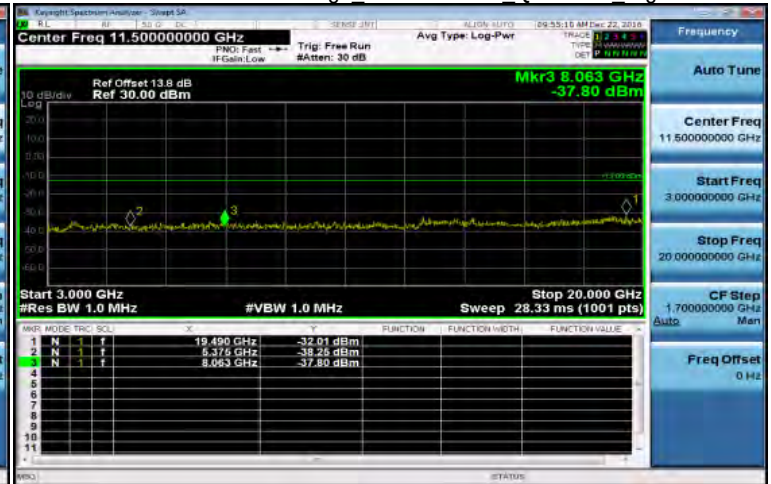
Out of Band Emission Low Band41 5MHz QPSK 1.0 High



Out of Band Emission Low Band41 5MHz QPSK 1.0 Mid



Out of Band Emission High Band41 5MHz QPSK 1.0 High

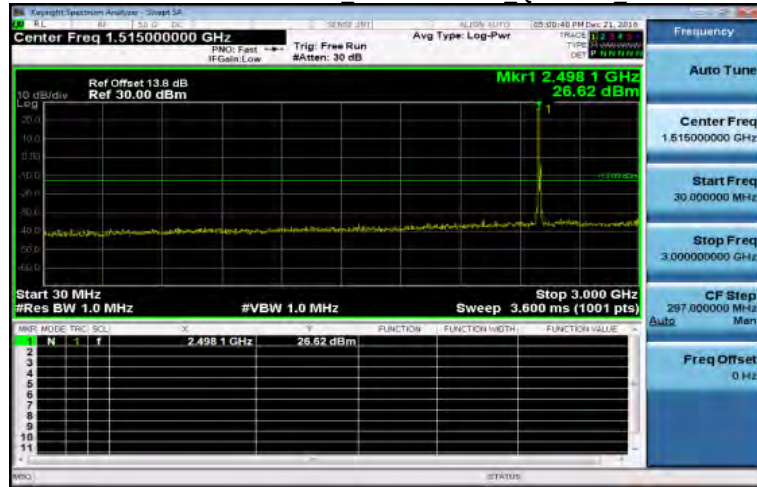


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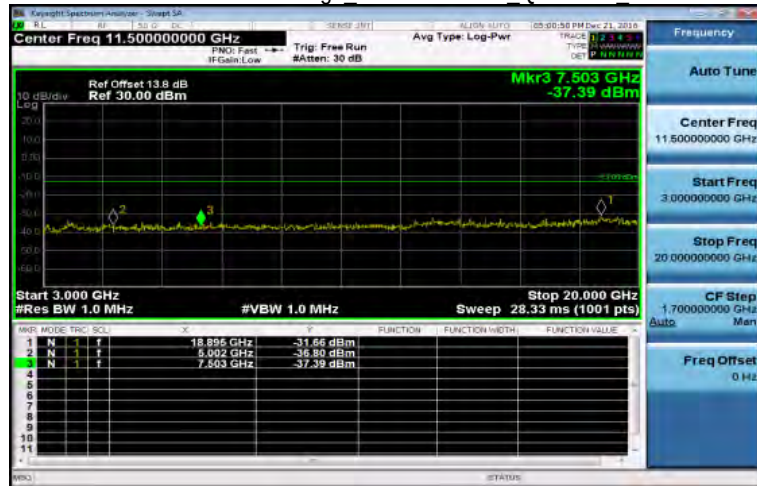
Out of Band Emission Low Band41 10MHz QPSK 10 Low



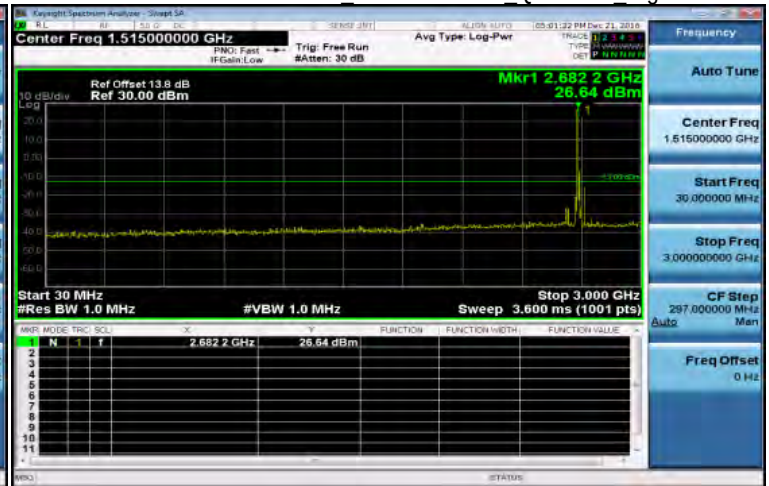
Out of Band Emission High Band41 10MHz QPSK 10 Mid



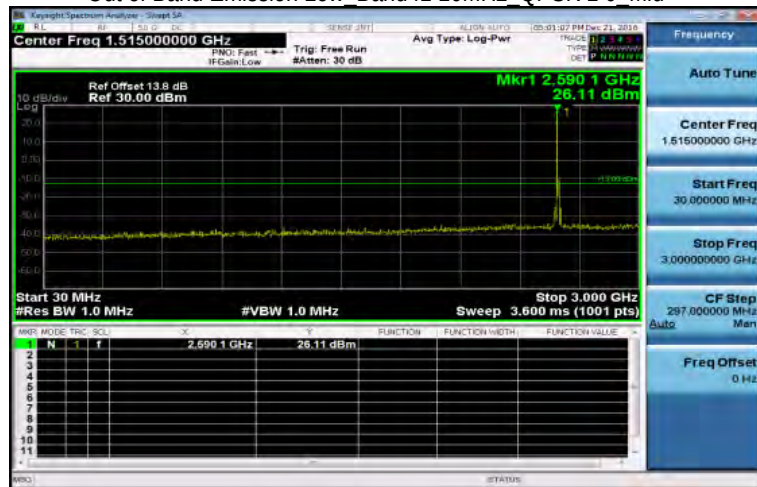
Out of Band Emission High Band41 10MHz QPSK 10 Low



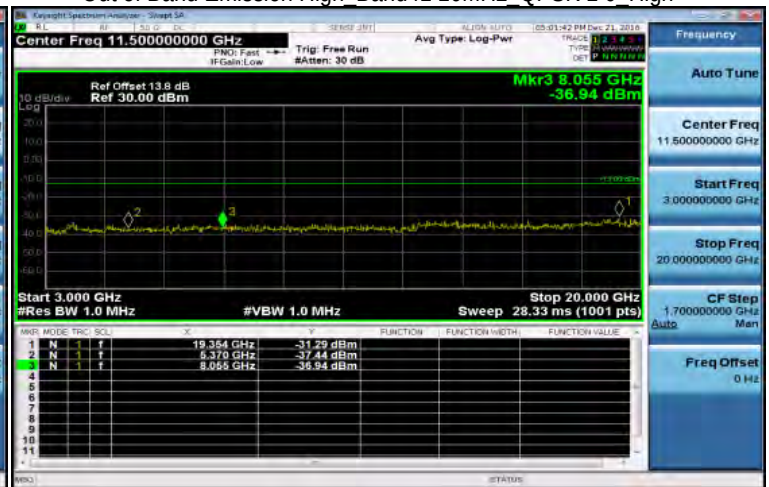
Out of Band Emission Low Band41 10MHz QPSK 10 High



Out of Band Emission Low Band41 10MHz QPSK 10 Mid



Out of Band Emission High Band41 10MHz QPSK 10 High

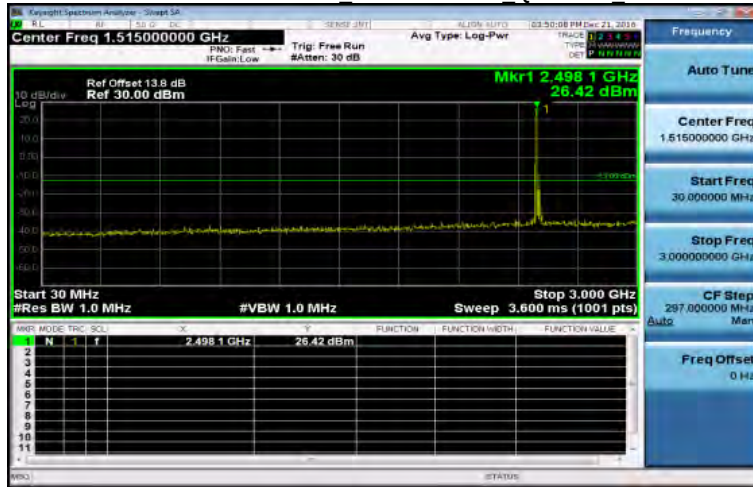


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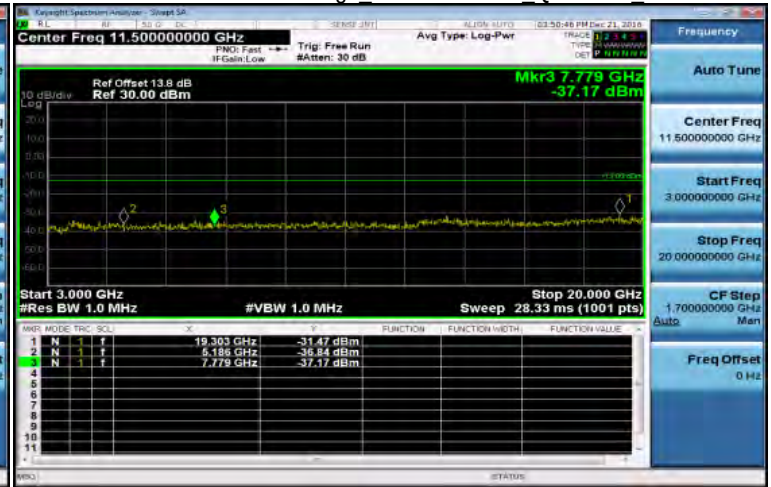
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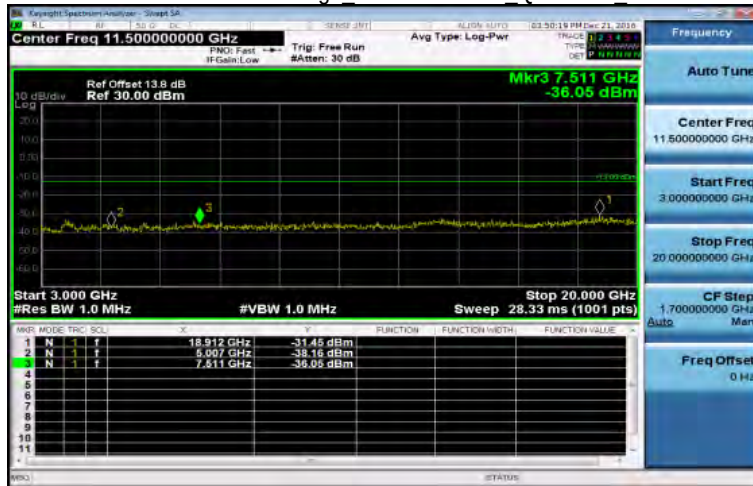
Out of Band Emission Low Band41 15MHz QPSK 1.0 Low



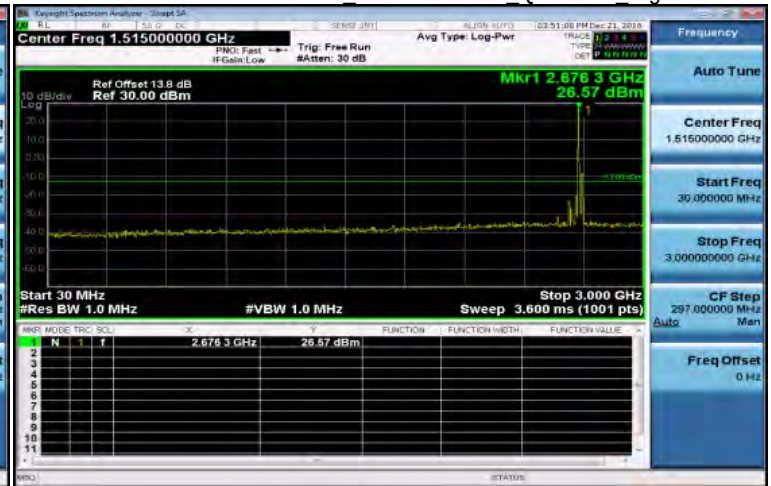
Out of Band Emission High Band41 15MHz QPSK 1.0 Mid



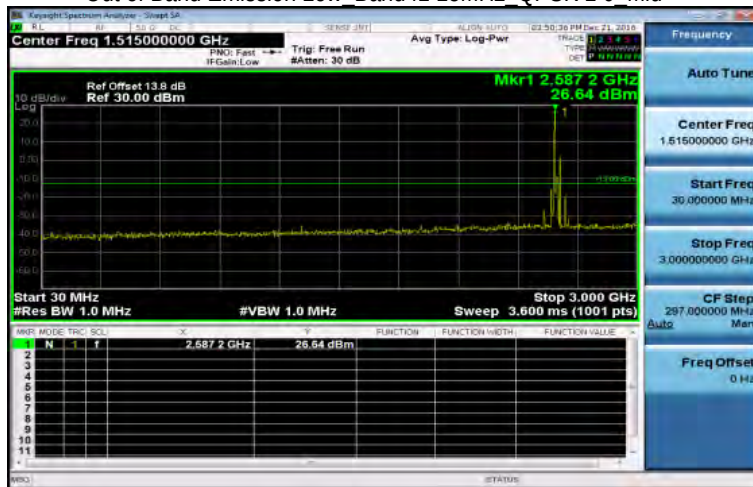
Out of Band Emission High Band41 15MHz QPSK 1.0 Low



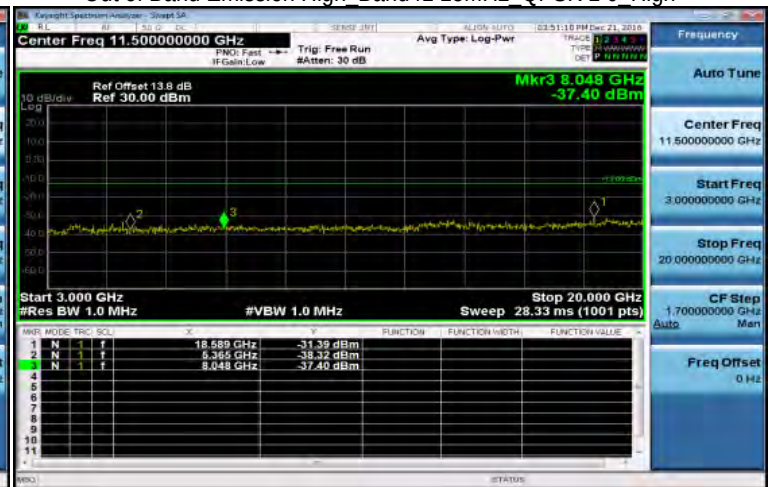
Out of Band Emission Low Band41 15MHz QPSK 1.0 High



Out of Band Emission Low Band41 15MHz QPSK 1.0 Mid



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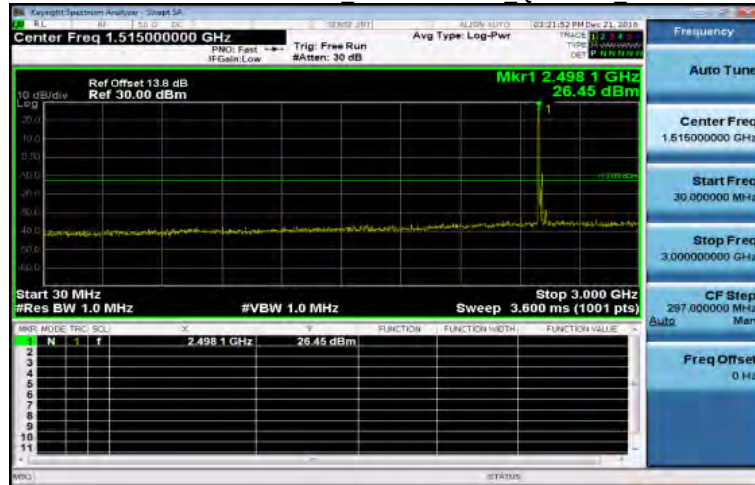


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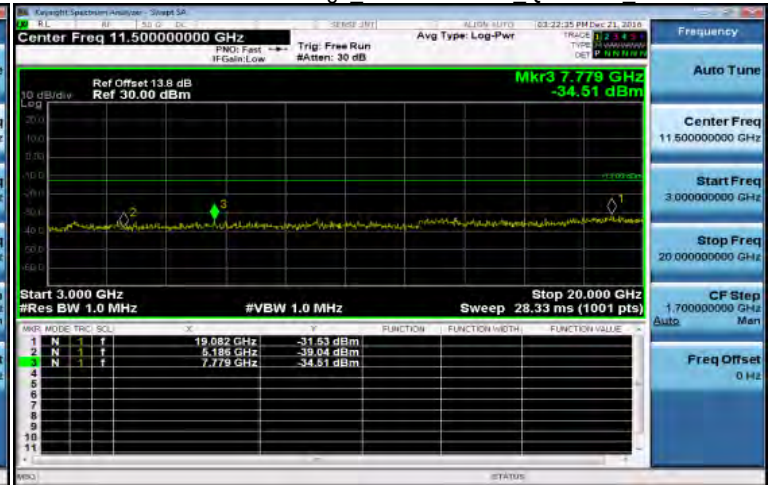
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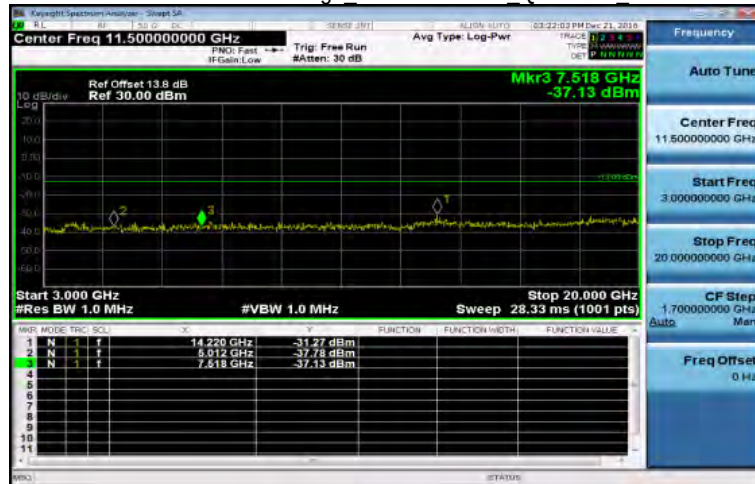
Out of Band Emission Low Band41 20MHz QPSK 10 Low



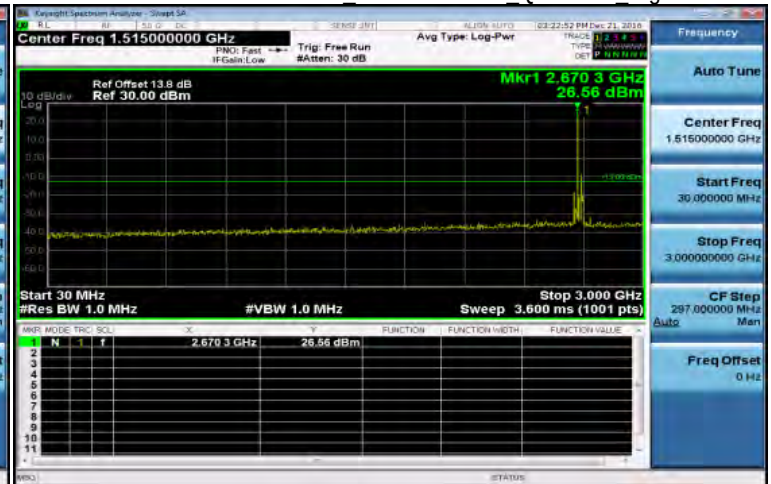
Out of Band Emission High Band41 20MHz QPSK 10 Mid



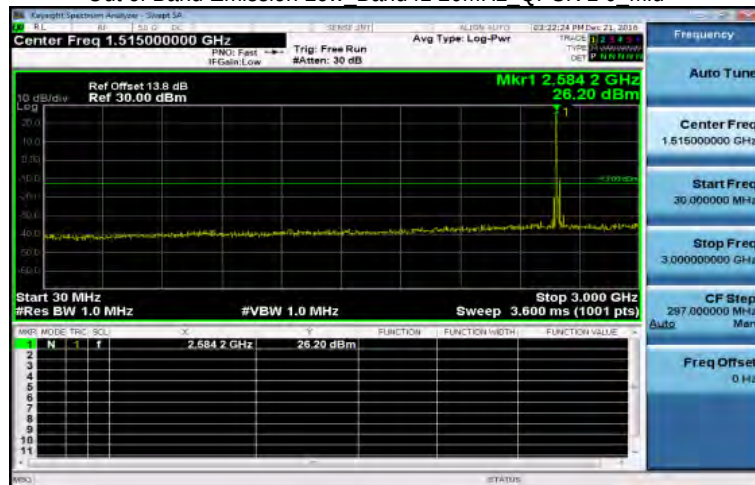
Out of Band Emission High Band41 20MHz QPSK 10 Low



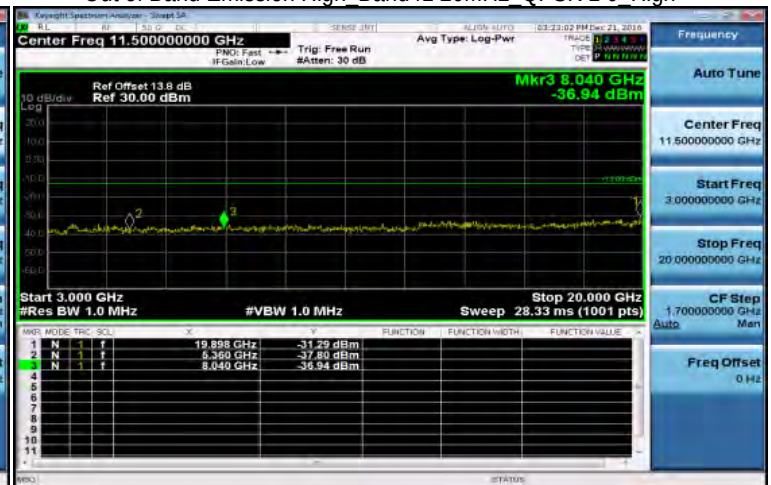
Out of Band Emission Low Band41 20MHz QPSK 10 High



Out of Band Emission Low Band41 20MHz QPSK 10 Mid



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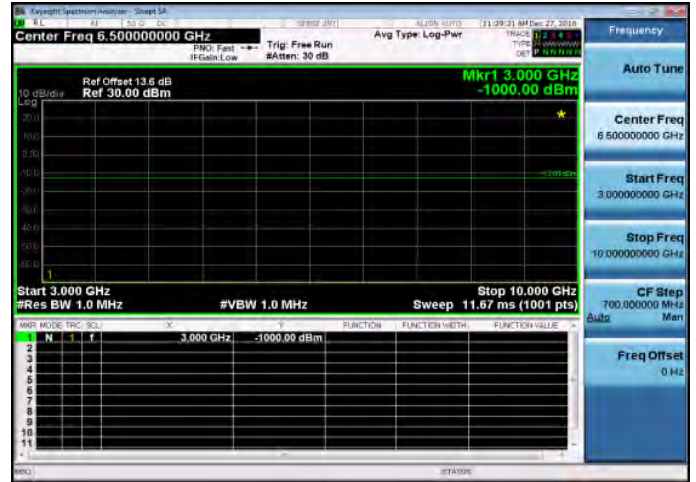
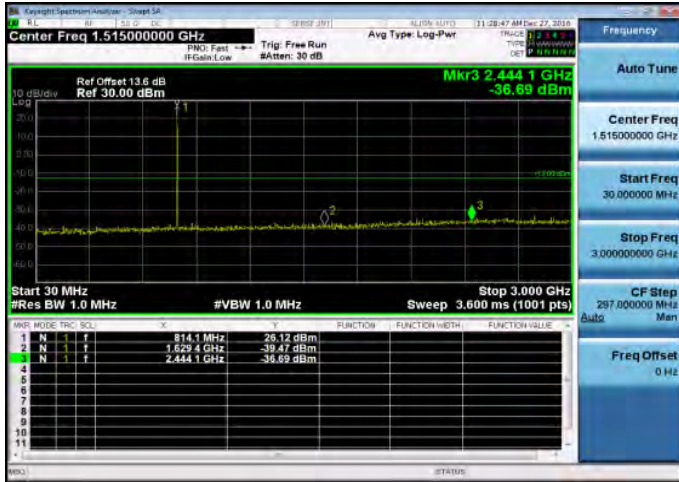


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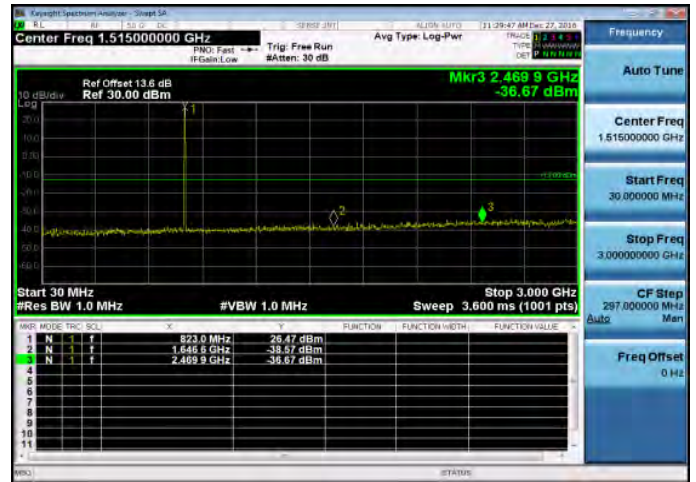
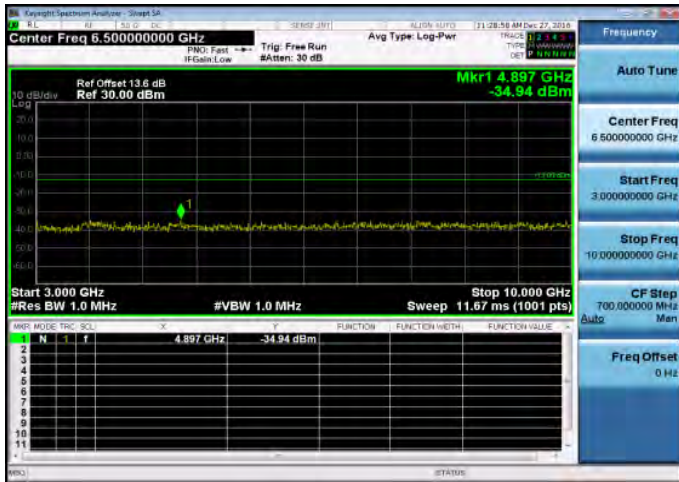
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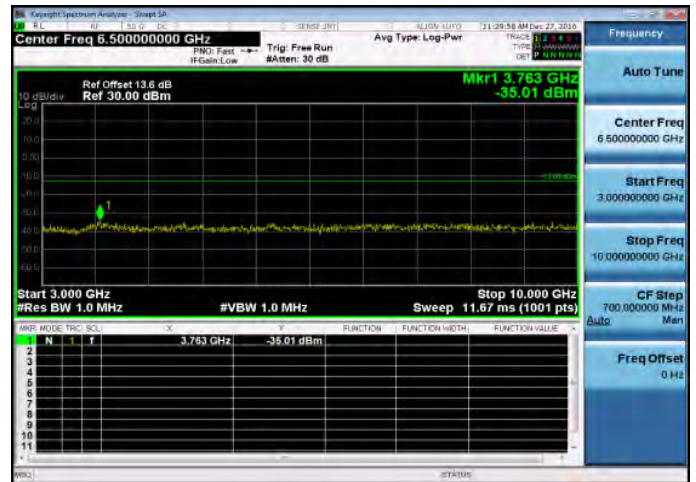
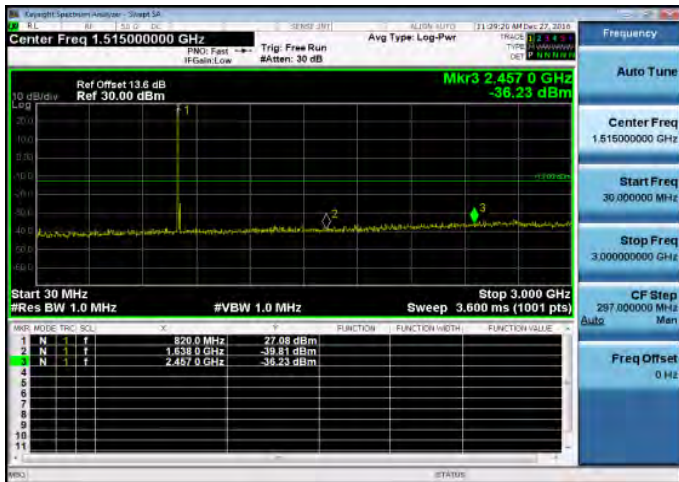
Out of Band Emission_Band26 for Part 90S_1.4M-QPSK-1 0HIGH-30M-3G Out of Band Emission_Band26 for Part 90S_1.4M-QPSK-1 0-LOW-3G-10G



Out of Band Emission_Band26 for Part 90S_1.4M-QPSK-1 0-HIGH-3G-10G Out of Band Emission_Band26 for Part 90S_1.4M-QPSK-1 0-MID-30M-3G



Out of Band Emission_Band26 for Part 90S_1.4M-QPSK-1 0-LOW-30M-3G Out of Band Emission_Band26 for Part 90S_1.4M-QPSK-1 0-MID-3G-10G



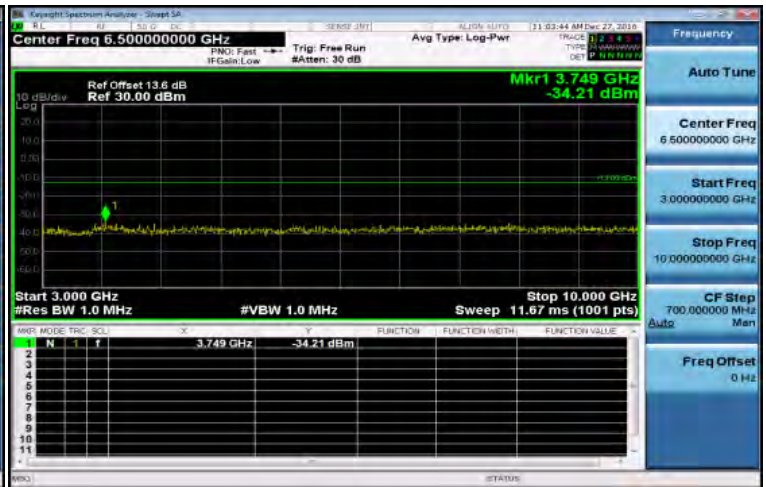
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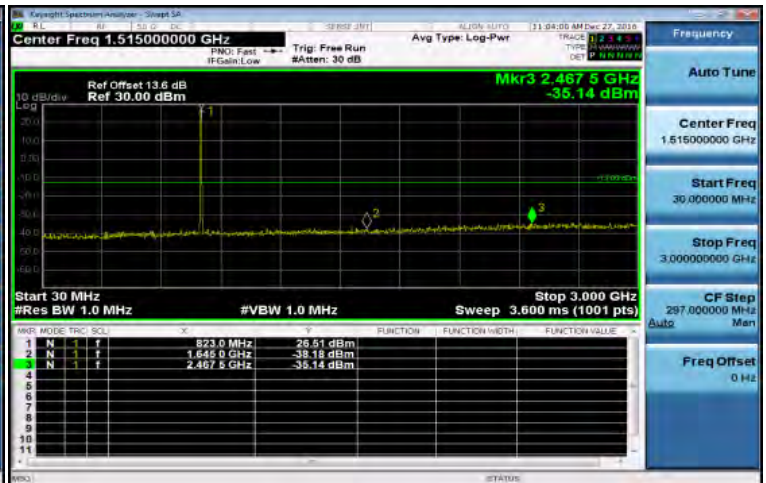
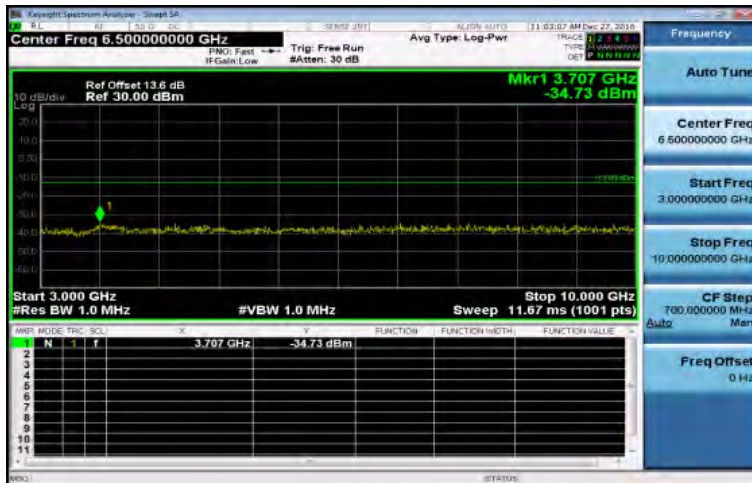
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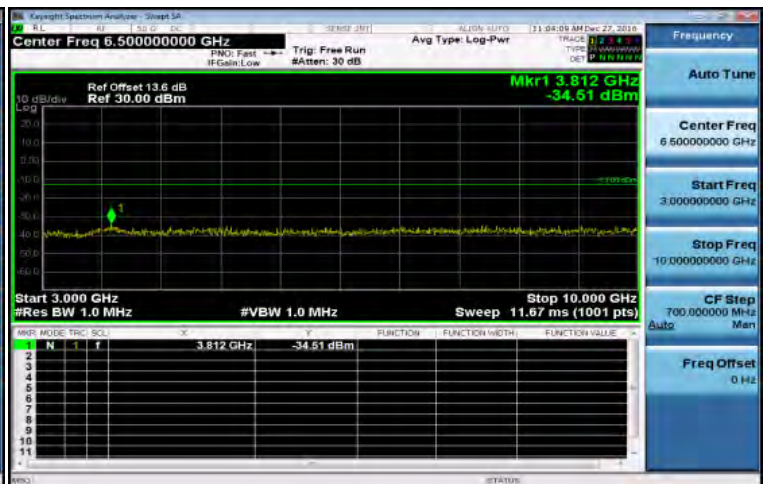
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Out of Band Emission_Band26 for Part 90S_3M-QPSK-1 0-MID-30M-3G



Out of Band Emission_Band26 for Part 90S_3M-QPSK-1 0-LOW-30M-3G

Out of Band Emission_Band26 for Part 90S_3M-QPSK-1 0-MID-3G-10G



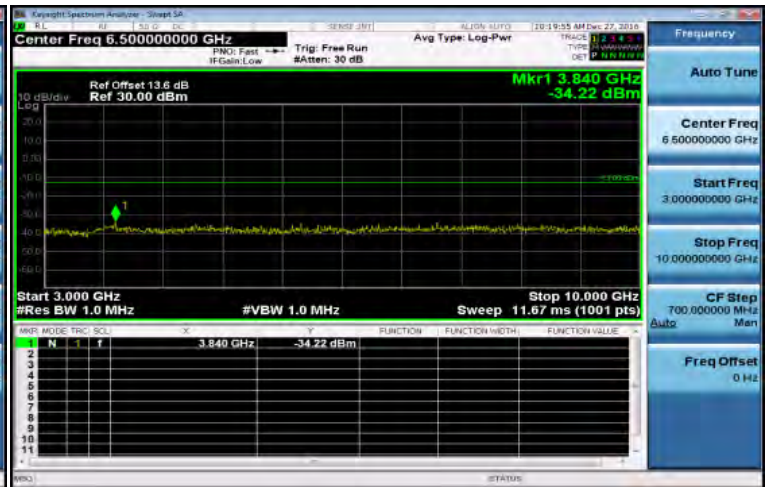
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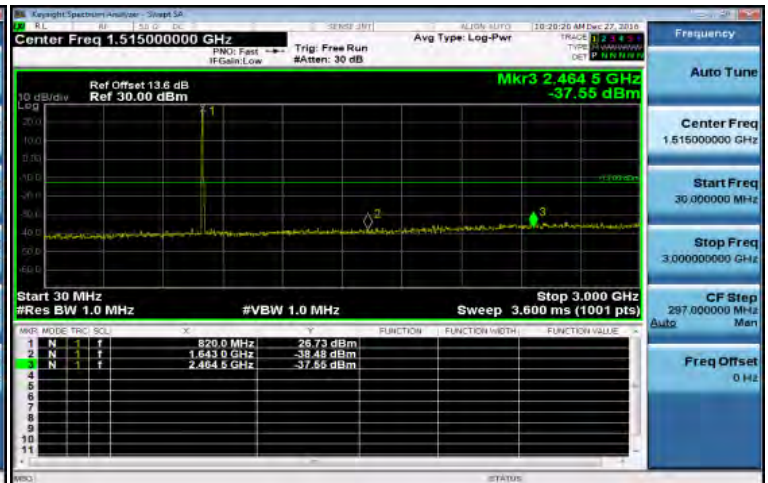
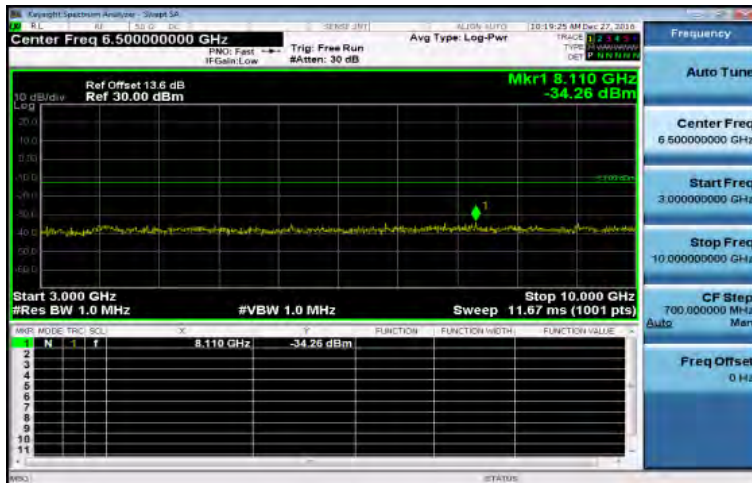
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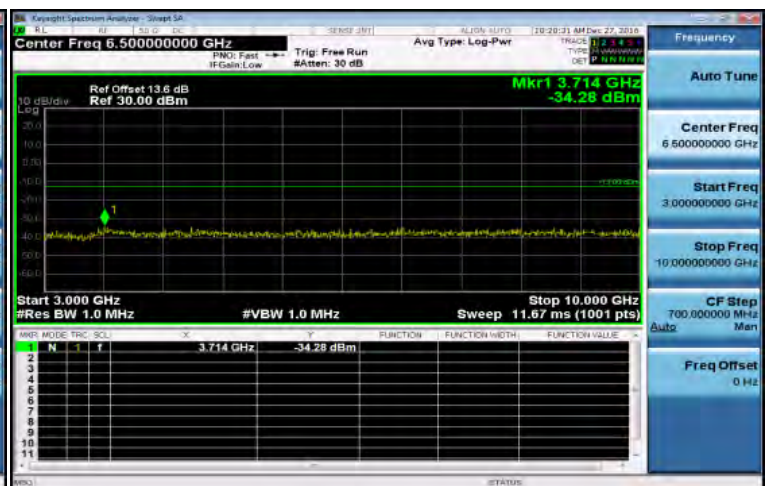
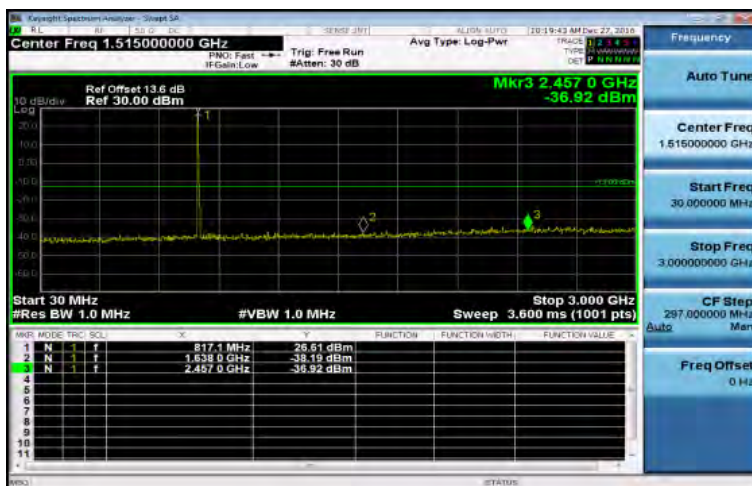
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Out of Band Emission_Band26 for Part 90S_5M-QPSK-1 0-MID-30M-3G



Out of Band Emission_Band26 for Part 90S_5M-QPSK-1 0-LOW-30M-3G

Out of Band Emission_Band26 for Part 90S_5M-QPSK-1 0-MID-3G-10G

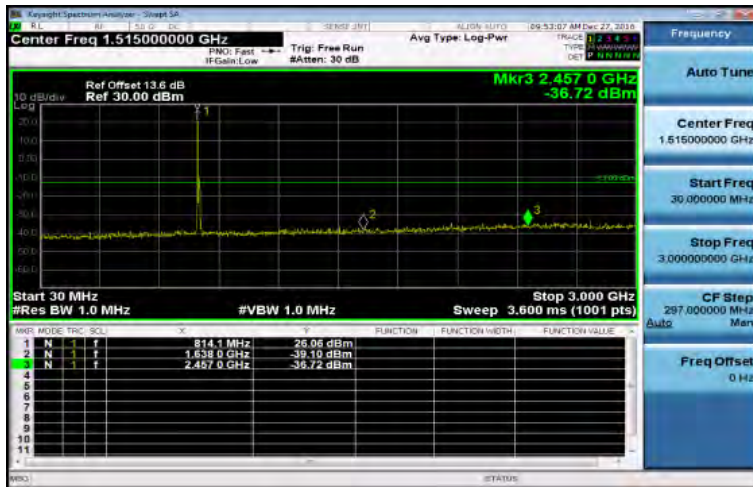


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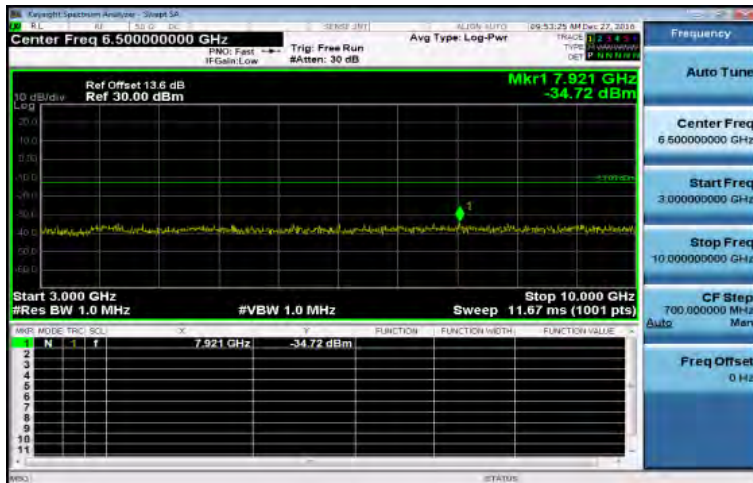
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Out of Band Emission_Band26 for Part 90S_10M-QPSK-1 0-MID-30M-3G



Out of Band Emission_Band26 for Part 90S_10M-QPSK-1 0-MID-3G-10G



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053, FCC §22.917(a) , §24.238(a) , §27.53(g)(h) , the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

FCC §27.53 (m) (4) shall not be less than $55 + 10 \log$ (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

§27.53 (c)

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log$ (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log$ (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ ^{Note}
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ ^{Note}
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for various equipment types.

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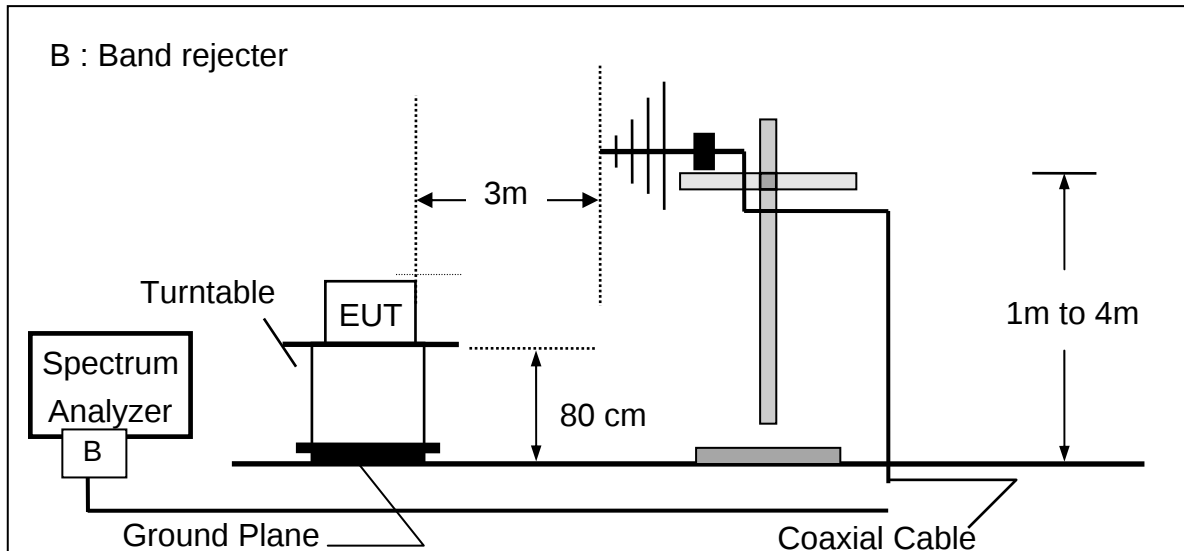
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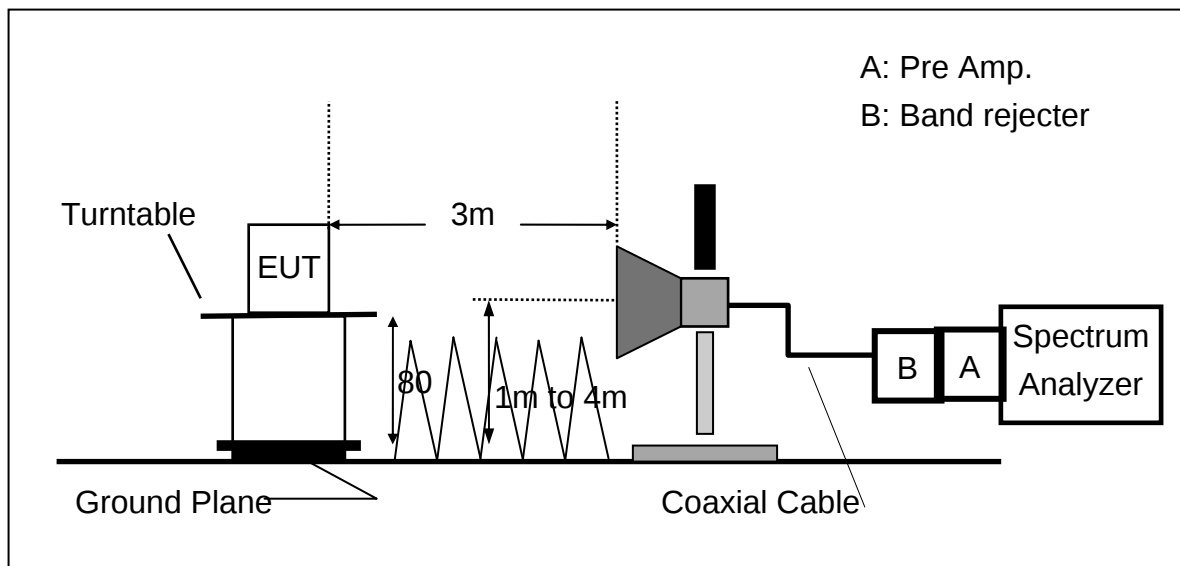
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10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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10.4. Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2016	01/01/2017
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyser	Anritsu	MT8820C	6201465317	12/10/2016	12/09/2017
Signal Generator	Agilent	E4438C	MY45093613	07/07/2016	07/06/2017
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2016	01/01/2017
Filter 1800-2000	Micro-Tronics	EWT	M1	01/02/2016	01/01/2017
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2016	01/01/2017
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2016	01/01/2017

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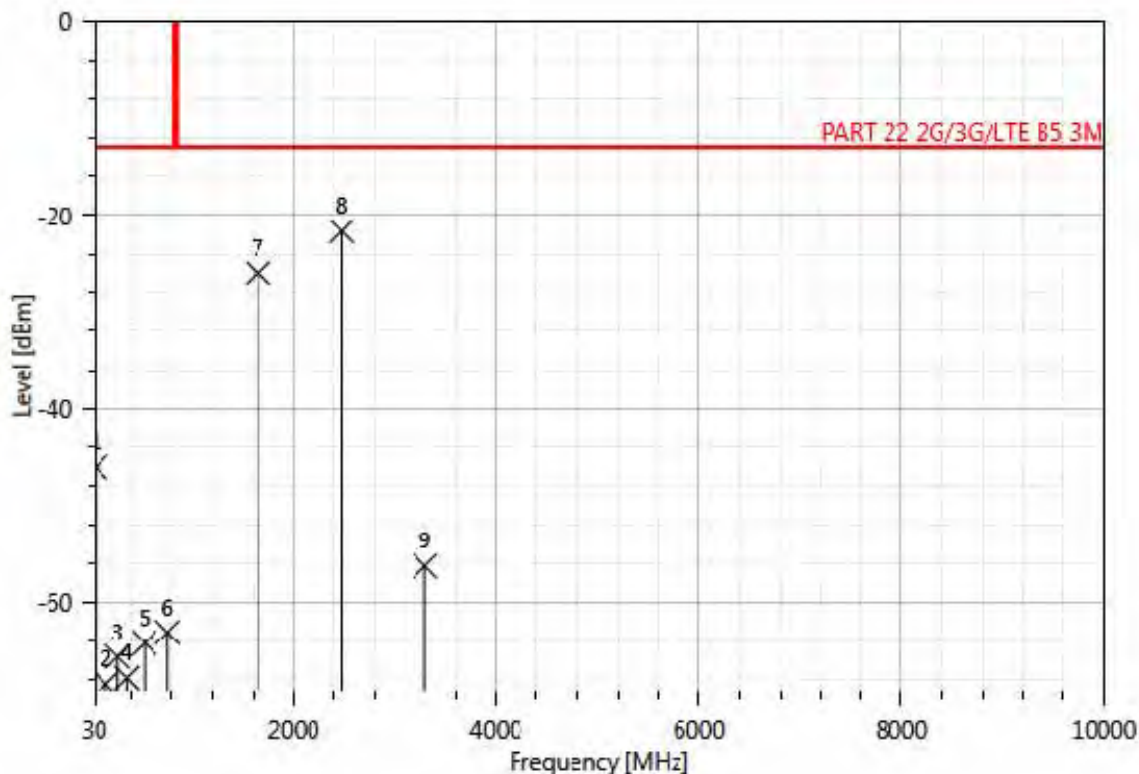
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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode :	GPRS 850	Test Date :	12/23/2016 23:46:43
Fundamental Frequency :	824.2 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	dB
		QP/AV/PK	dBm	dBm	dBd	dB	dBm	
41.64	S	Peak	-46.00	-32.17	-12.83	-1.00	-13.00	-33.00
146.40	S	Peak	-68.39	-64.67	-2.31	-1.42	-13.00	-55.39
260.86	S	Peak	-65.58	-67.46	3.66	-1.78	-13.00	-52.58
353.01	S	Peak	-67.76	-69.54	3.86	-2.07	-13.00	-54.76
527.61	S	Peak	-64.18	-65.41	3.71	-2.47	-13.00	-51.18
755.56	S	Peak	-63.10	-63.26	3.20	-3.04	-13.00	-50.10
1648.40	S	Peak	-26.02	-28.91	7.11	-4.22	-13.00	-13.02
2472.60	S	Peak	-21.67	-25.18	8.73	-5.22	-13.00	-8.67
3296.80	S	Peak	-56.20	-60.06	9.90	-6.04	-13.00	-43.20

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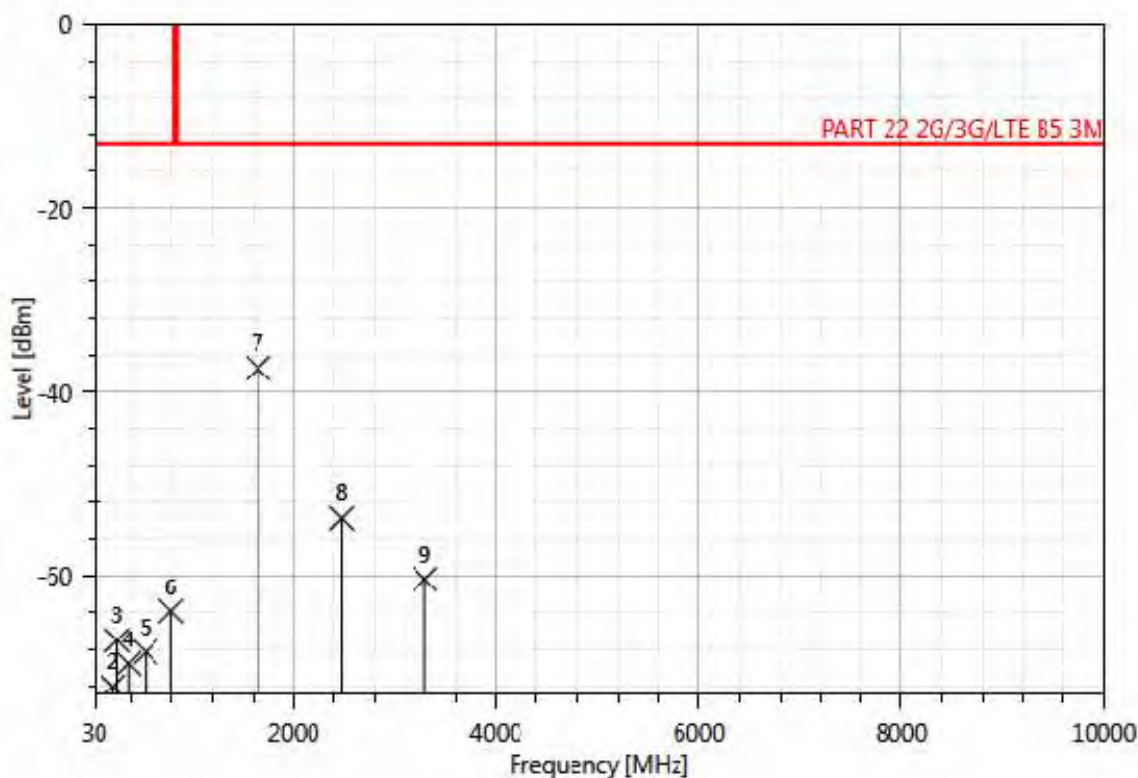
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Operation Mode : GPRS 850 Test Date : 12/23/2016 23:46:46
Fundamental Frequency : 824.2 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-53.92	-38.19	-14.78	-0.96	-13.00	-40.92
216.24	S	Peak	-72.06	-73.76	3.40	-1.69	-13.00	-59.06
257.95	S	Peak	-67.02	-68.88	3.63	-1.77	-13.00	-54.02
369.50	S	Peak	-69.56	-71.21	3.85	-2.20	-13.00	-56.56
536.34	S	Peak	-68.31	-69.41	3.66	-2.56	-13.00	-55.31
788.54	S	Peak	-63.86	-64.26	3.31	-2.90	-13.00	-50.86
1648.40	S	Peak	-37.43	-40.31	7.11	-4.22	-13.00	-24.43
2472.60	S	Peak	-53.71	-57.22	8.73	-5.22	-13.00	-40.71
3296.80	S	Peak	-60.37	-64.23	9.90	-6.04	-13.00	-47.37

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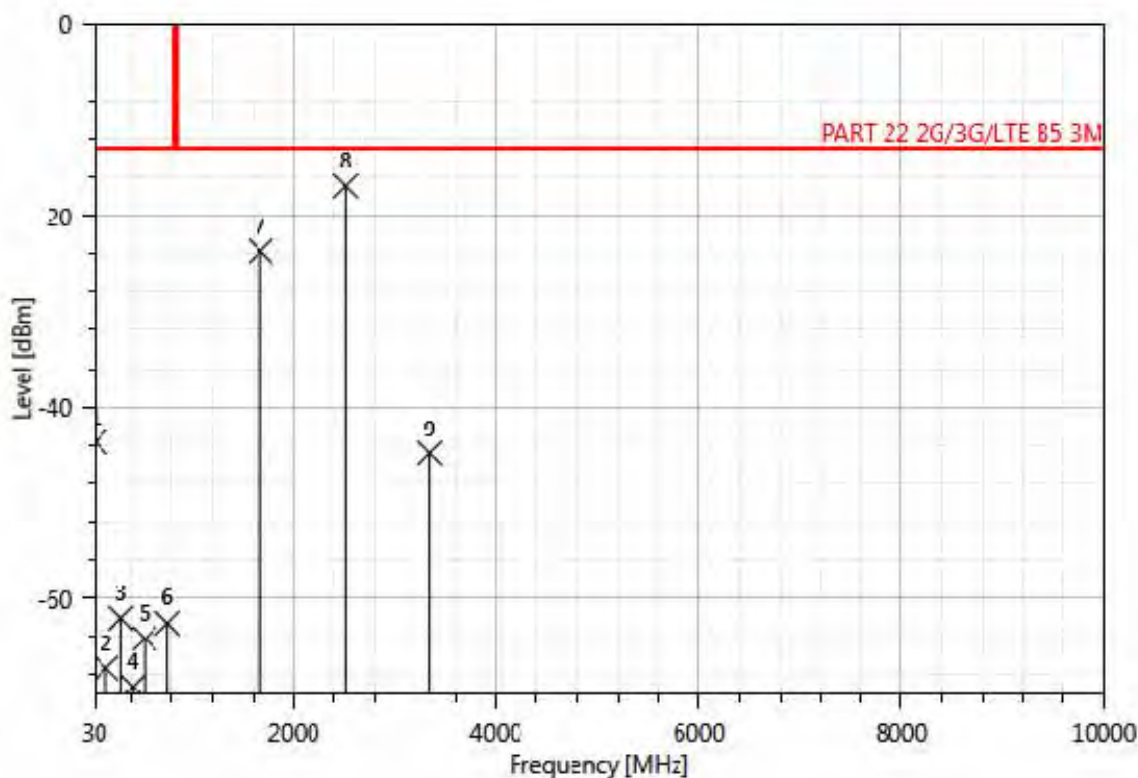
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Operation Mode : GPRS 850
Fundamental Frequency : 836.6 MHz
Operation Band : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 12/23/2016 23:46:49
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Tin
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
39.70	S	Peak	-43.69	-29.59	-13.11	-0.99	-13.00	-30.69
148.34	S	Peak	-67.28	-63.66	-2.19	-1.42	-13.00	-54.28
293.84	S	Peak	-62.05	-63.61	3.50	-1.94	-13.00	-49.05
411.21	S	Peak	-69.20	-70.59	3.78	-2.39	-13.00	-56.20
527.61	S	Peak	-64.19	-65.42	3.71	-2.47	-13.00	-51.19
754.59	S	Peak	-62.58	-62.72	3.20	-3.05	-13.00	-49.58
1673.20	S	Peak	-23.69	-26.60	7.20	-4.29	-13.00	-10.69
2509.80	S	Peak	-16.94	-20.44	8.76	-5.26	-13.00	-3.94
3346.40	S	Peak	-44.81	-48.53	9.99	-6.26	-13.00	-31.81

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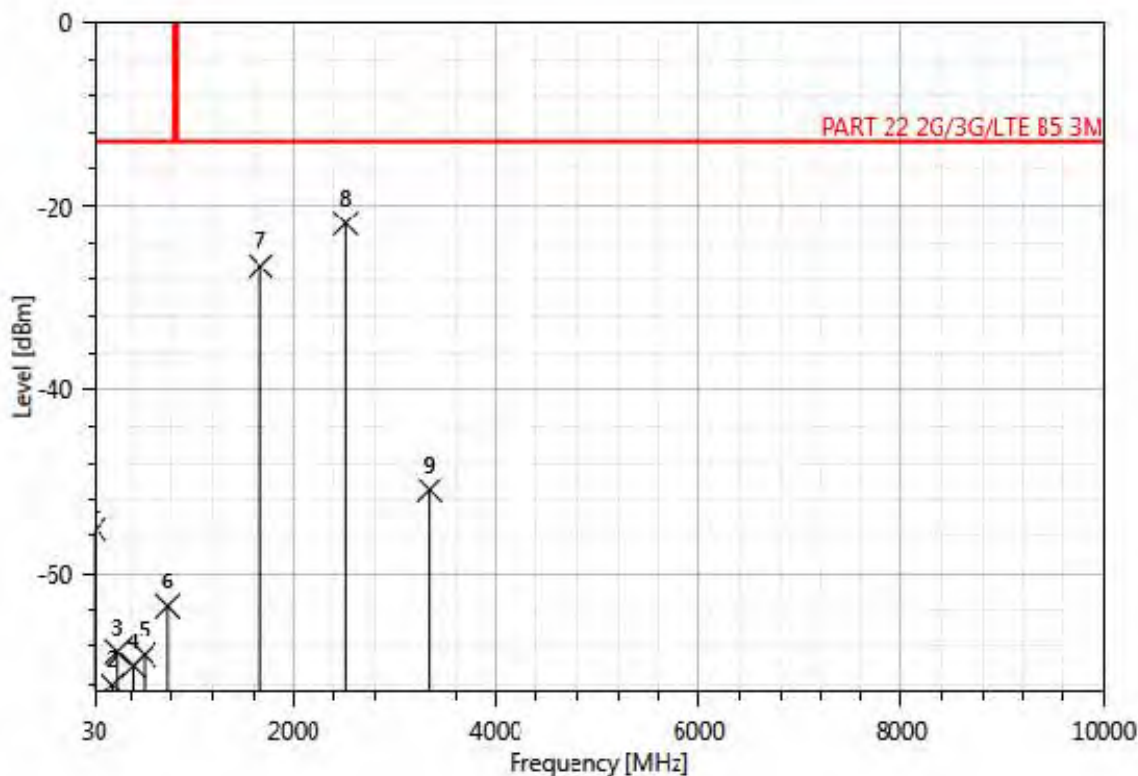
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Operation Mode : GPRS 850
Fundamental Frequency : 836.6 MHz
Operation Band : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 12/23/2016 23:46:52
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Tin
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
31.94	S	Peak	-55.24	-39.96	-14.31	-0.96	-13.00	-42.24
214.30	S	Peak	-72.15	-73.90	3.44	-1.68	-13.00	-59.15
260.86	S	Peak	-68.63	-70.51	3.66	-1.78	-13.00	-55.63
415.09	S	Peak	-70.07	-71.47	3.77	-2.37	-13.00	-57.07
524.70	S	Peak	-68.94	-70.22	3.72	-2.44	-13.00	-55.94
759.44	S	Peak	-63.63	-63.83	3.21	-3.02	-13.00	-50.63
1673.20	S	Peak	-26.60	-29.51	7.20	-4.29	-13.00	-13.60
2509.80	S	Peak	-21.93	-25.43	8.76	-5.26	-13.00	-8.93
3346.40	S	Peak	-51.00	-54.72	9.99	-6.26	-13.00	-38.00

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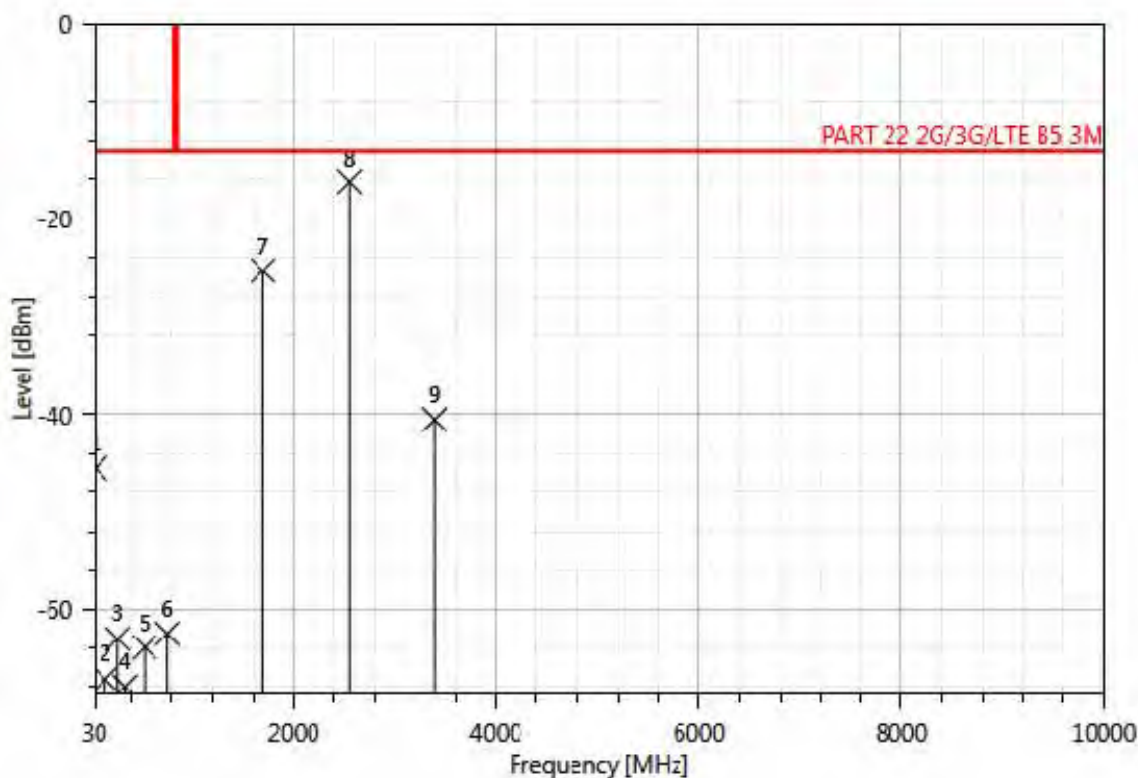
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Operation Mode :	GPRS 850	Test Date :	12/23/2016 23:46:55
Fundamental Frequency :	848.8 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	
		QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
39.70	S	Peak	-45.50	-31.40	-13.11	-0.99	-13.00	-32.50
139.61	S	Peak	-67.16	-63.07	-2.70	-1.39	-13.00	-54.16
262.80	S	Peak	-63.05	-64.89	3.63	-1.79	-13.00	-50.05
335.55	S	Peak	-67.95	-69.81	3.80	-1.93	-13.00	-54.95
527.61	S	Peak	-63.92	-65.16	3.71	-2.47	-13.00	-50.92
754.59	S	Peak	-62.52	-62.66	3.20	-3.05	-13.00	-49.52
1697.60	S	Peak	-25.30	-28.28	7.28	-4.31	-13.00	-12.30
2546.40	S	Peak	-16.24	-19.73	8.81	-5.33	-13.00	-3.24
3395.20	S	Peak	-40.55	-44.37	10.07	-6.26	-13.00	-27.55

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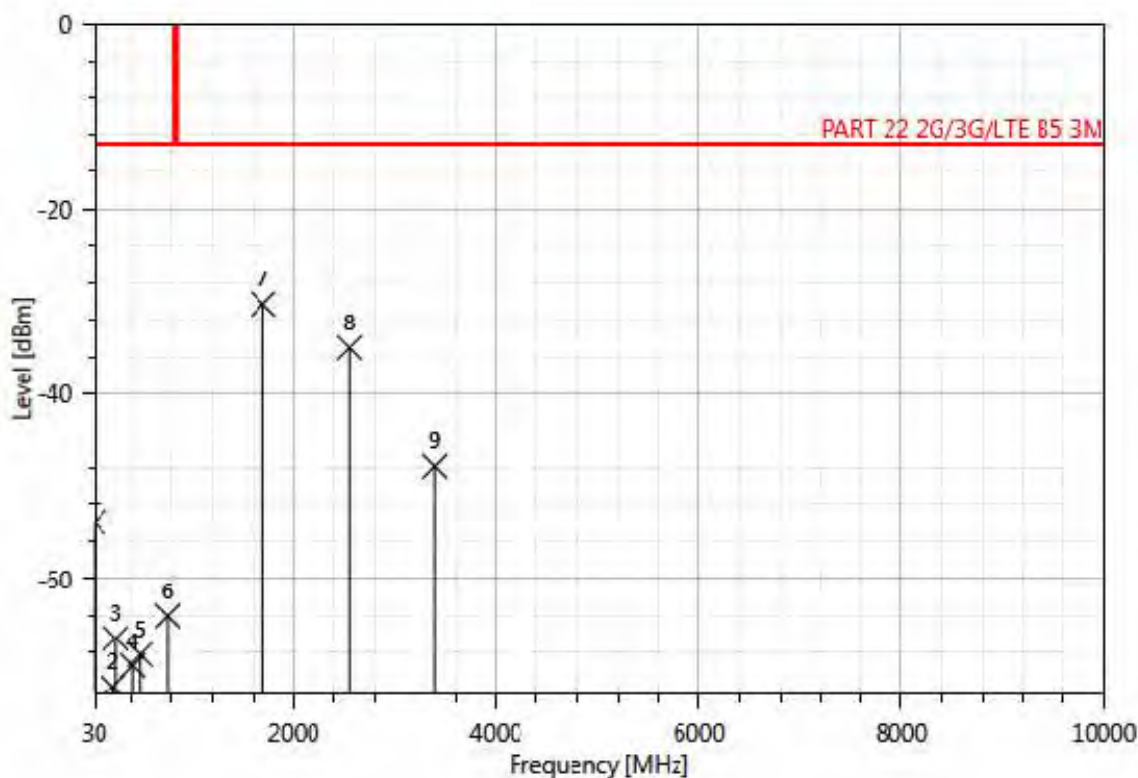
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Operation Mode :	GPRS 850	Test Date :	12/23/2016 23:46:58
Fundamental Frequency :	848.8 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
31.94	S	Peak	-53.88	-38.60	-14.31	-0.96	-13.00	-40.88
214.30	S	Peak	-71.69	-73.44	3.44	-1.68	-13.00	-58.69
245.34	S	Peak	-66.48	-68.10	3.37	-1.75	-13.00	-53.48
408.30	S	Peak	-69.41	-70.79	3.79	-2.41	-13.00	-56.41
479.11	S	Peak	-68.23	-69.76	3.77	-2.24	-13.00	-55.23
760.41	S	Peak	-64.05	-64.25	3.22	-3.01	-13.00	-51.05
1697.60	S	Peak	-30.31	-33.29	7.28	-4.31	-13.00	-17.31
2546.40	S	Peak	-35.02	-38.50	8.81	-5.33	-13.00	-22.02
3395.20	S	Peak	-47.81	-51.63	10.07	-6.26	-13.00	-34.81

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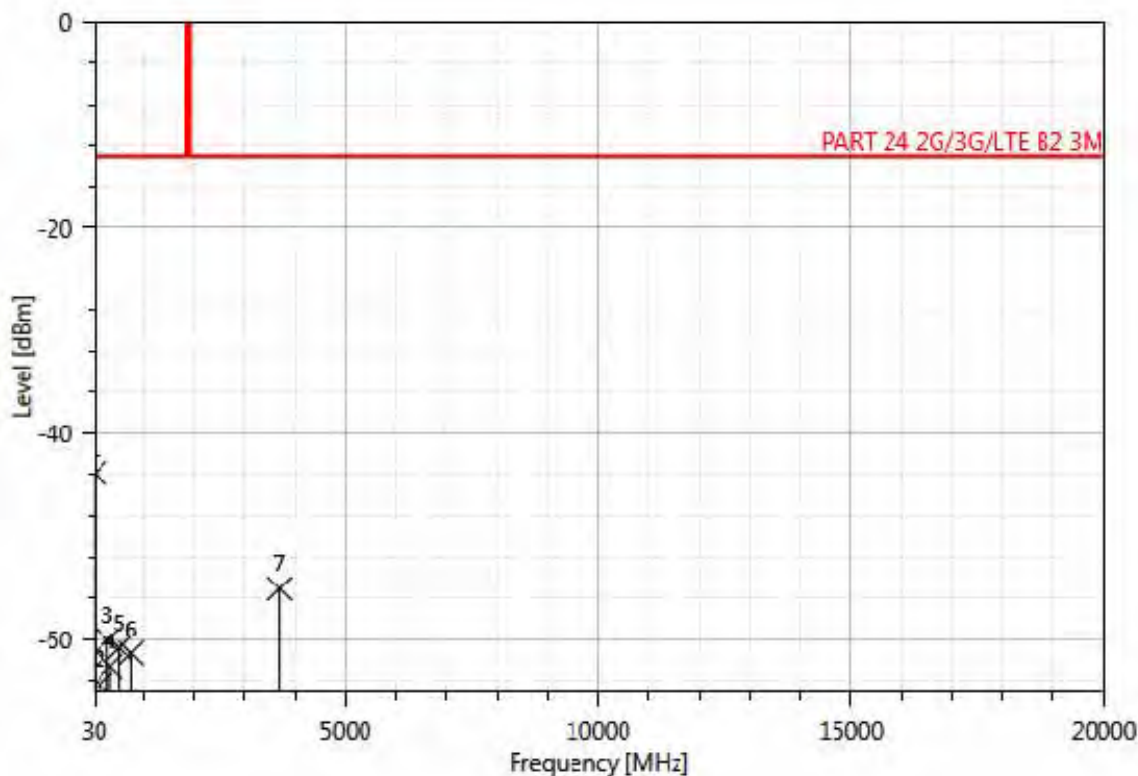
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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Mode :	GSM 1900	Test Date :	12/23/2016 23:48:38
Fundamental Frequency :	1850.2 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	dB
		QP/AV/PK	dBm	dBm	dBi	dB	dBm	
39.70	S	Peak	-43.84	-31.89	-10.96	-0.99	-13.00	-30.84
148.34	S	Peak	-64.40	-62.93	-0.04	-1.42	-13.00	-51.40
296.75	S	Peak	-60.10	-63.86	5.71	-1.95	-13.00	-47.10
348.16	S	Peak	-62.63	-66.60	6.00	-2.03	-13.00	-49.63
527.61	S	Peak	-60.83	-64.22	5.86	-2.47	-13.00	-47.83
755.56	S	Peak	-61.36	-63.67	5.35	-3.04	-13.00	-48.36
3700.40	S	Peak	-55.08	-60.94	12.44	-6.58	-13.00	-42.08

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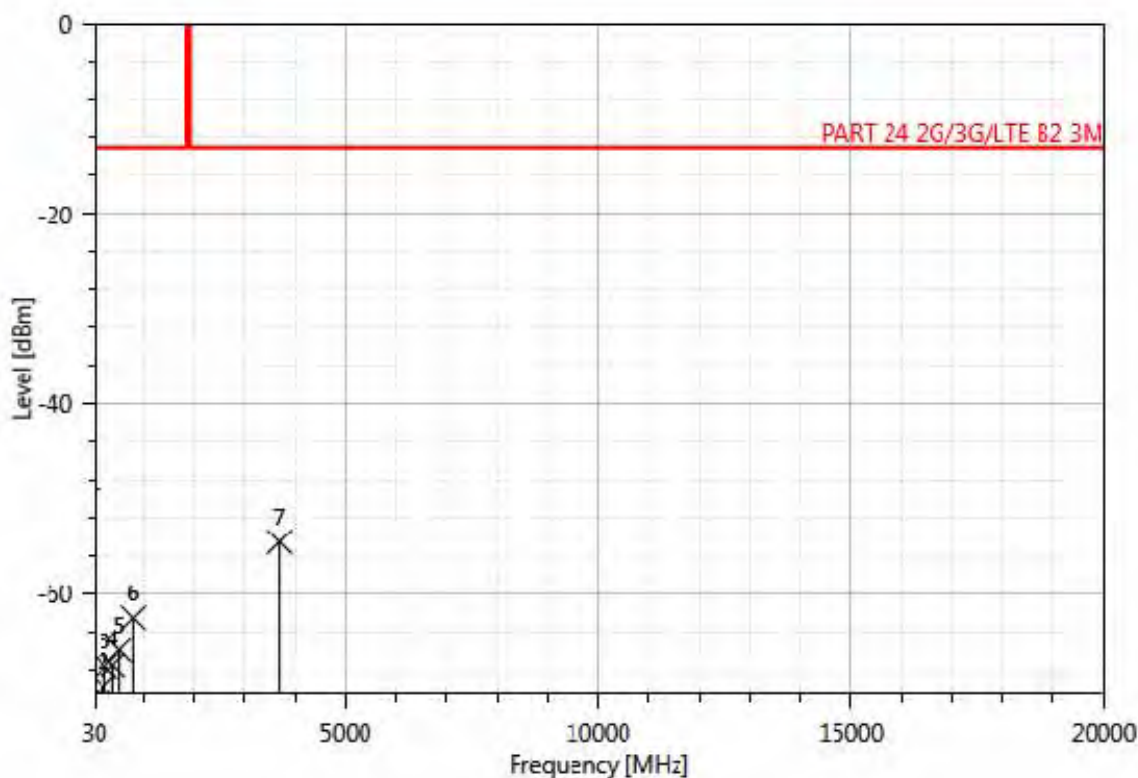
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Operation Mode :	GSM 1900	Test Date :	12/23/2016 23:48:40
Fundamental Frequency :	1850.2 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	QP/AV/PK	Level dBm	Level dBm	Gain dBi	Loss dB	@3m dBm	dB
30.00	S	Peak	-51.08	-37.49	-12.63	-0.96	-13.00	-38.08
207.51	S	Peak	-69.81	-73.72	5.57	-1.66	-13.00	-56.81
243.40	S	Peak	-67.70	-71.44	5.49	-1.75	-13.00	-54.70
400.54	S	Peak	-67.56	-71.14	5.97	-2.38	-13.00	-54.56
527.61	S	Peak	-65.99	-69.37	5.86	-2.47	-13.00	-52.99
798.24	S	Peak	-62.56	-65.14	5.49	-2.90	-13.00	-49.56
3700.40	S	Peak	-54.57	-60.43	12.44	-6.58	-13.00	-41.57

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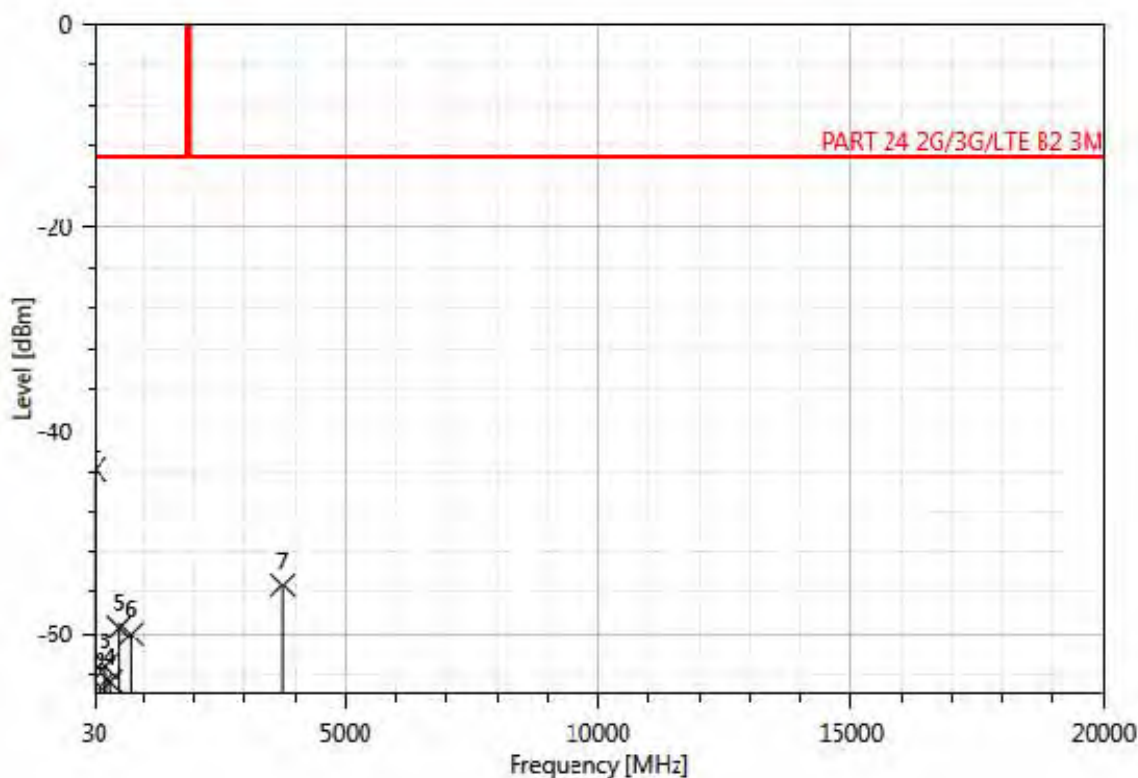
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Operation Mode : GSM 1900
Fundamental Frequency : 1880 MHz
Operation Band : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 12/23/2016 23:48:43
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Tin
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
39.70	S	Peak	-43.79	-31.84	-10.96	-0.99	-13.00	-30.79
148.34	S	Peak	-65.21	-63.75	-0.04	-1.42	-13.00	-52.21
259.89	S	Peak	-63.22	-67.27	5.83	-1.77	-13.00	-50.22
352.04	S	Peak	-64.69	-68.64	6.01	-2.06	-13.00	-51.69
527.61	S	Peak	-59.41	-62.79	5.86	-2.47	-13.00	-46.41
754.59	S	Peak	-60.08	-62.38	5.35	-3.05	-13.00	-47.08
3760.00	S	Peak	-55.25	-61.11	12.45	-6.60	-13.00	-42.25

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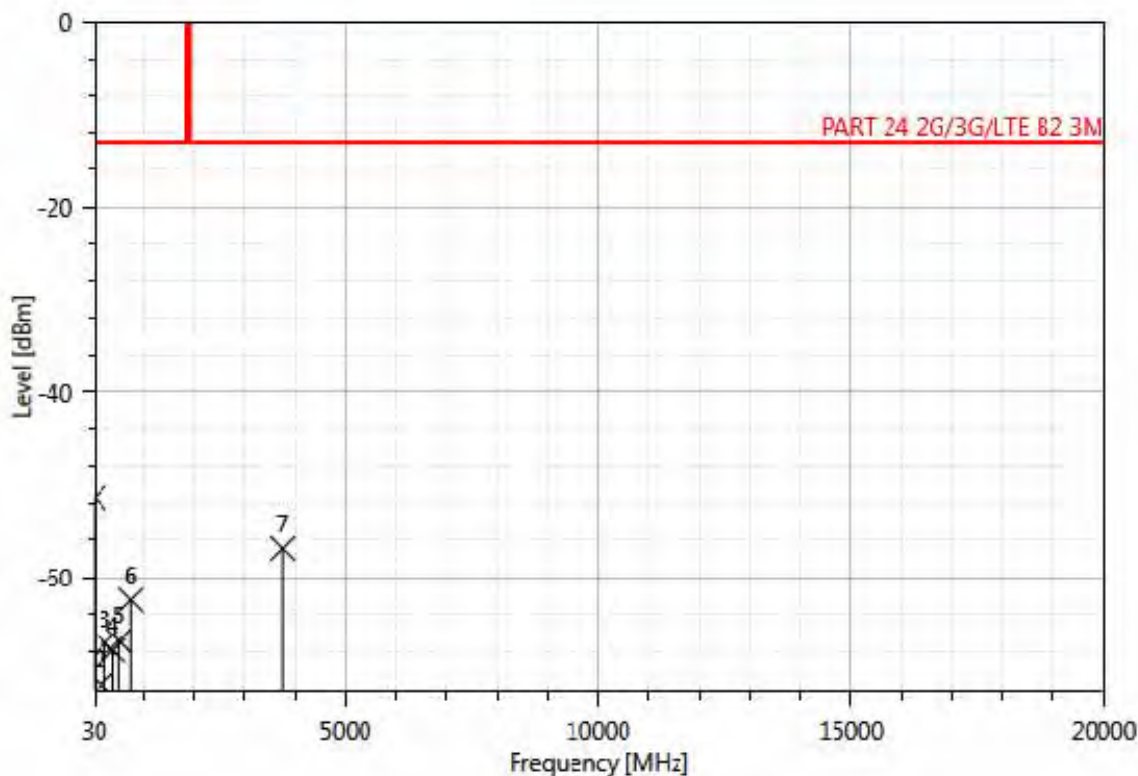
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Operation Mode : GSM 1900
Fundamental Frequency : 1880 MHz
Operation Band : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 12/23/2016 23:48:46
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Tin
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
31.94	S	Peak	-51.41	-38.28	-12.16	-0.96	-13.00	-38.41
165.80	S	Peak	-71.55	-70.99	0.94	-1.50	-13.00	-58.55
243.40	S	Peak	-67.13	-70.87	5.49	-1.75	-13.00	-54.13
406.36	S	Peak	-67.88	-71.41	5.95	-2.42	-13.00	-54.88
519.85	S	Peak	-66.83	-70.34	5.90	-2.39	-13.00	-53.83
752.65	S	Peak	-62.45	-64.73	5.34	-3.06	-13.00	-49.45
3760.00	S	Peak	-56.91	-62.77	12.45	-6.60	-13.00	-43.91

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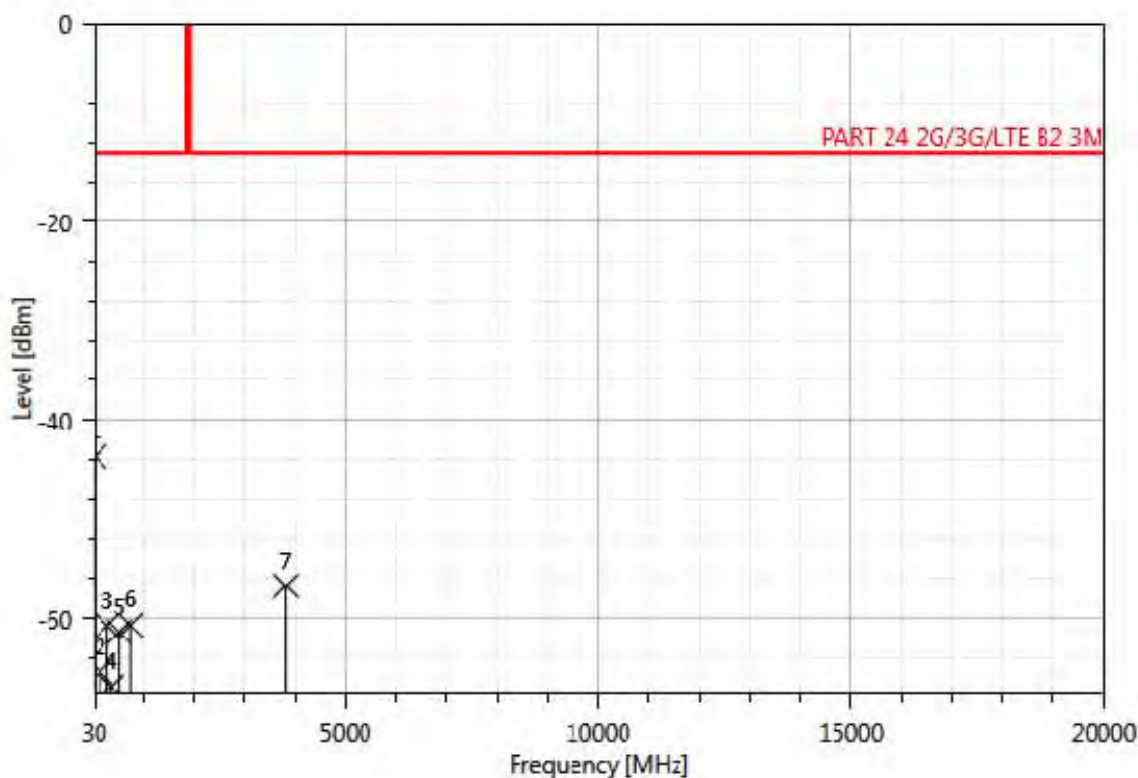
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Operation Mode :	GSM 1900	Test Date :	12/23/2016 23:48:48
Fundamental Frequency :	1909.8 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	QP/AV/PK	Level dBm	Level dBm	Gain dBi	Loss dB	@3m dBm	dB
39.70	S	Peak	-43.66	-31.71	-10.96	-0.99	-13.00	-30.66
148.34	S	Peak	-65.38	-63.91	-0.04	-1.42	-13.00	-52.38
291.90	S	Peak	-60.71	-64.40	5.62	-1.93	-13.00	-47.71
374.35	S	Peak	-66.89	-70.66	5.99	-2.23	-13.00	-53.89
527.61	S	Peak	-61.37	-64.75	5.86	-2.47	-13.00	-48.37
745.86	S	Peak	-60.69	-62.91	5.32	-3.10	-13.00	-47.69
3819.60	S	Peak	-56.73	-62.54	12.47	-6.65	-13.00	-43.73

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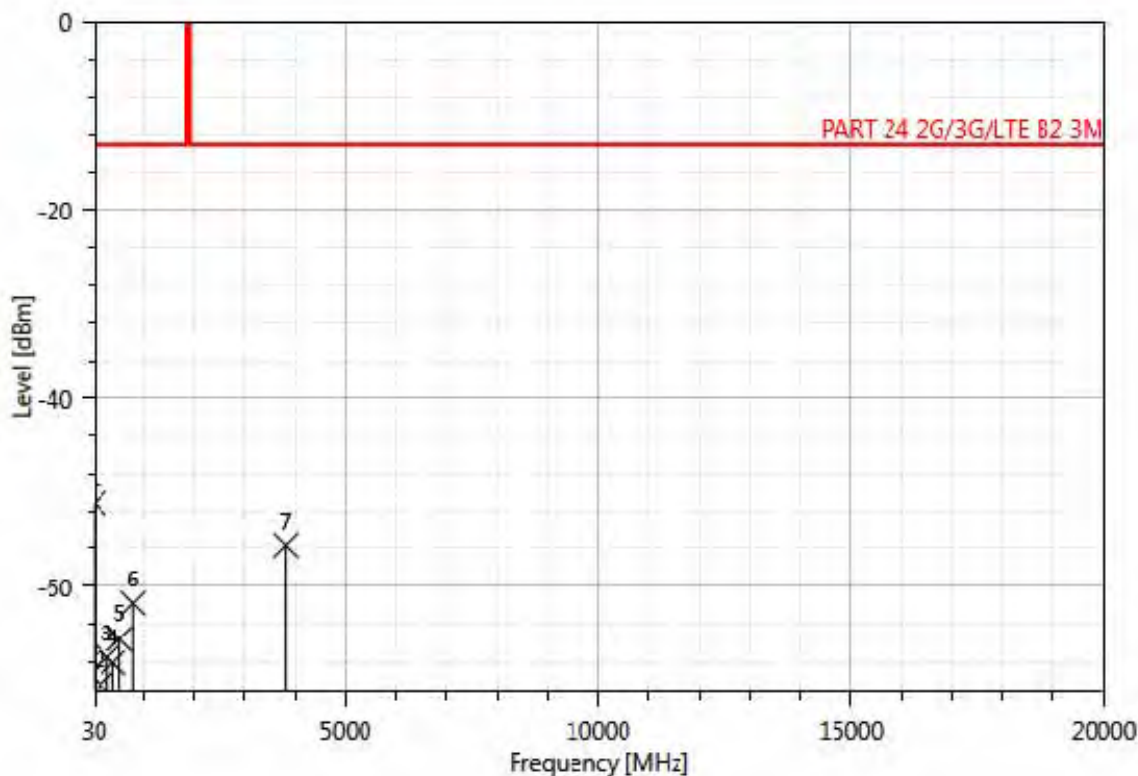
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Operation Mode :	GSM 1900	Test Date :	12/23/2016 23:48:51
Fundamental Frequency :	1909.8 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	QP/AV/PK	Level dBm	Level dBm	Gain dBi	Loss dB	@3m dBm	dB
31.94	S	Peak	-51.15	-38.03	-12.16	-0.96	-13.00	-38.15
154.16	S	Peak	-70.42	-69.22	0.25	-1.45	-13.00	-57.42
293.84	S	Peak	-67.52	-71.23	5.65	-1.94	-13.00	-54.52
400.54	S	Peak	-68.08	-71.67	5.97	-2.38	-13.00	-55.08
527.61	S	Peak	-65.59	-68.97	5.86	-2.47	-13.00	-52.59
793.39	S	Peak	-61.80	-64.37	5.47	-2.90	-13.00	-48.80
3819.60	S	Peak	-55.69	-61.51	12.47	-6.65	-13.00	-42.69

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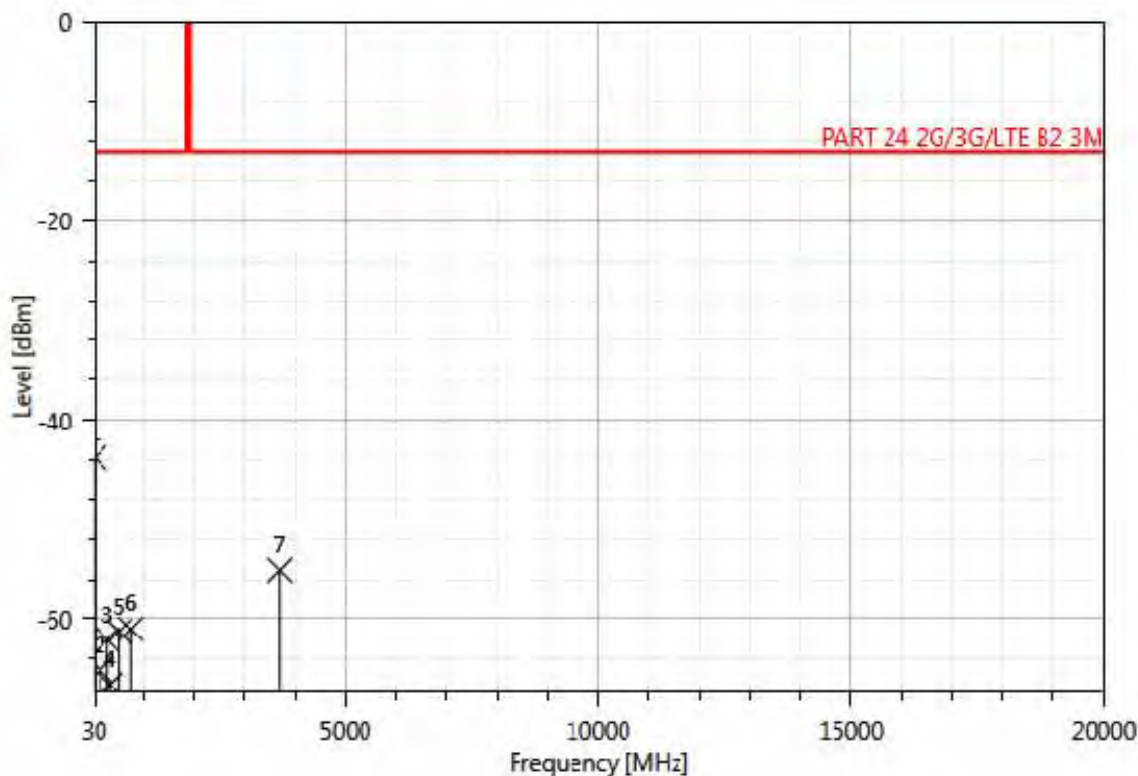
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Radiated Spurious Emission Measurement Result: HSDPA Band II Mode

Operation Mode :	HSDPA B2	Test Date :	12/23/2016 23:48:54
Fundamental Frequency :	1852.4 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	QP/AV/PK	Level dBm	Level dBm	Gain dBi	Loss dB	@3m dBm	dB
39.70	S	Peak	-43.76	-31.81	-10.96	-0.99	-13.00	-30.76
148.34	S	Peak	-65.12	-63.65	-0.04	-1.42	-13.00	-52.12
294.81	S	Peak	-62.08	-65.80	5.67	-1.94	-13.00	-49.08
353.01	S	Peak	-66.59	-70.53	6.01	-2.07	-13.00	-53.59
527.61	S	Peak	-61.26	-64.65	5.86	-2.47	-13.00	-48.26
749.74	S	Peak	-61.02	-63.27	5.33	-3.08	-13.00	-48.02
3704.80	S	Peak	-55.07	-60.93	12.44	-6.58	-13.00	-42.07

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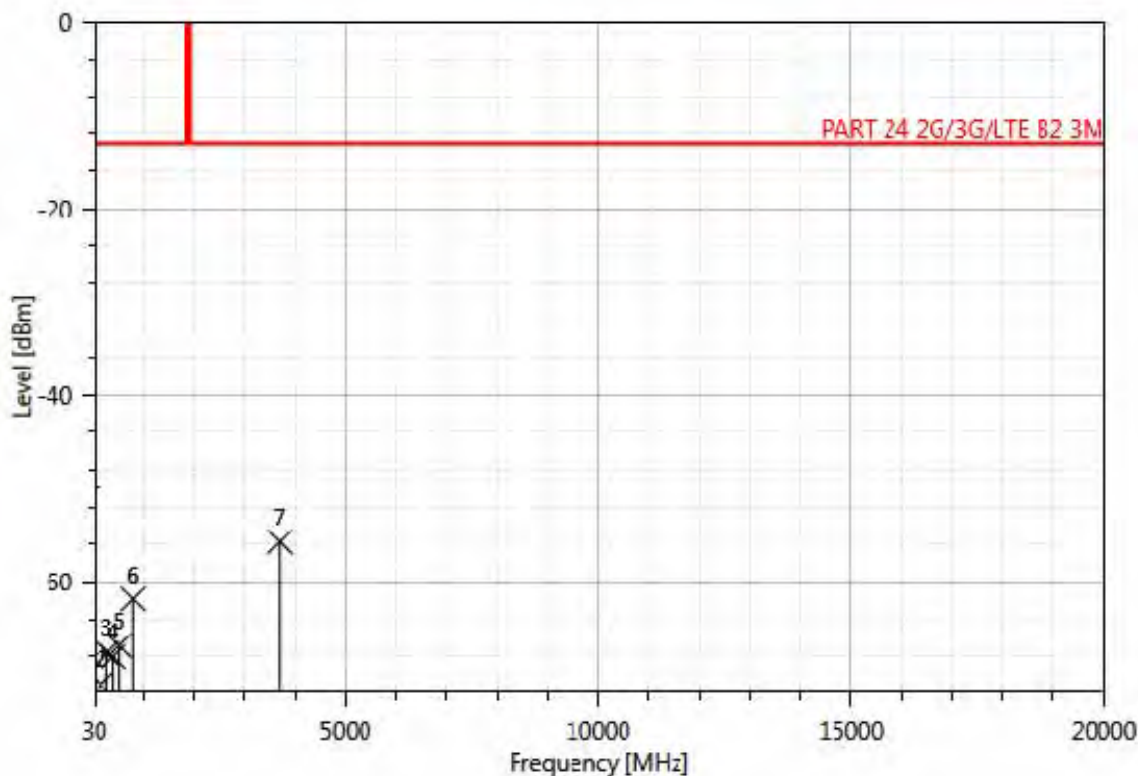
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Operation Mode :	HSDPA B2	Test Date :	12/23/2016 23:48:57
Fundamental Frequency :	1852.4 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	QP/AV/PK	Level dBm	Level dBm	Gain dBi	Loss dB	@3m dBm	dB
30.00	S	Peak	-51.87	-38.28	-12.63	-0.96	-13.00	-38.87
159.98	S	Peak	-71.02	-70.05	0.51	-1.48	-13.00	-58.02
279.29	S	Peak	-67.64	-71.35	5.58	-1.87	-13.00	-54.64
410.24	S	Peak	-68.04	-71.57	5.93	-2.40	-13.00	-55.04
526.64	S	Peak	-66.86	-70.26	5.86	-2.46	-13.00	-53.86
793.39	S	Peak	-61.89	-64.46	5.47	-2.90	-13.00	-48.89
3704.80	S	Peak	-55.74	-61.60	12.44	-6.58	-13.00	-42.74

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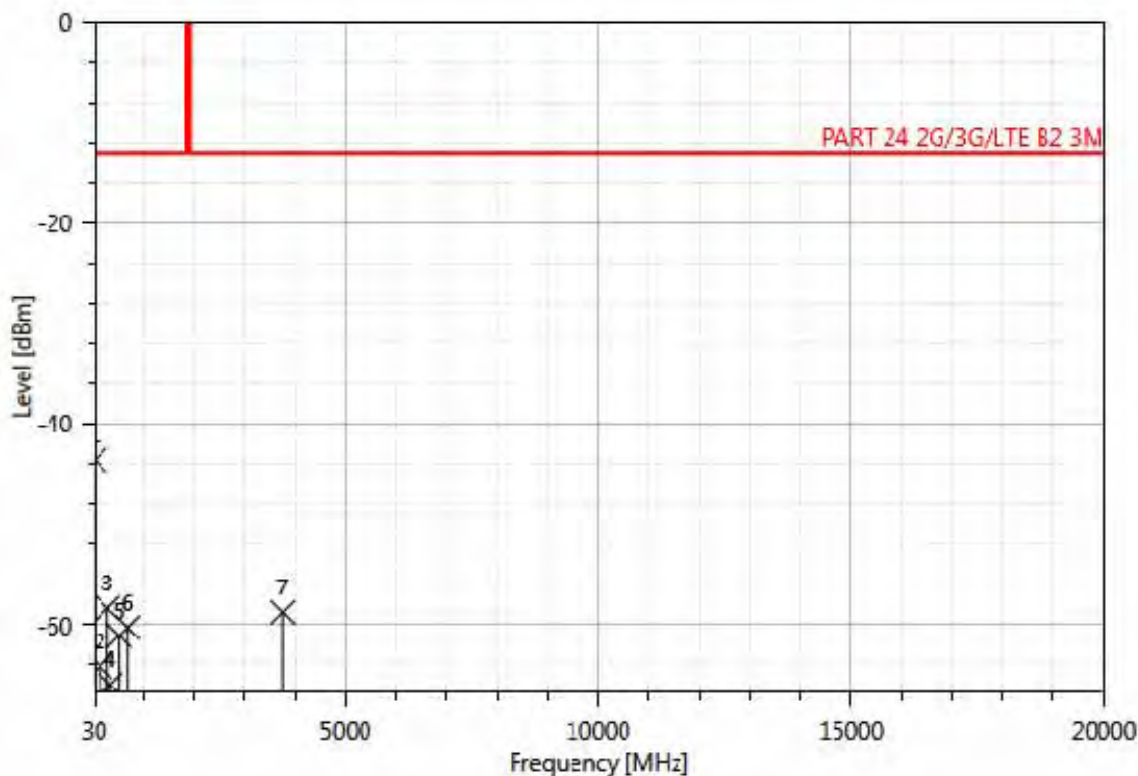
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Operation Mode : HSDPA B2
Fundamental Frequency : 1880 MHz
Operation Band : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 12/23/2016 23:48:59
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Tin
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
41.64	S	Peak	-43.62	-31.94	-10.68	-1.00	-13.00	-30.62
146.40	S	Peak	-64.15	-62.57	-0.16	-1.42	-13.00	-51.15
294.81	S	Peak	-58.36	-62.09	5.67	-1.94	-13.00	-45.36
347.19	S	Peak	-65.97	-69.95	6.00	-2.02	-13.00	-52.97
527.61	S	Peak	-61.11	-64.49	5.86	-2.47	-13.00	-48.11
691.54	S	Peak	-60.29	-62.70	5.24	-2.83	-13.00	-47.29
3760.00	S	Peak	-58.77	-64.62	12.45	-6.60	-13.00	-45.77

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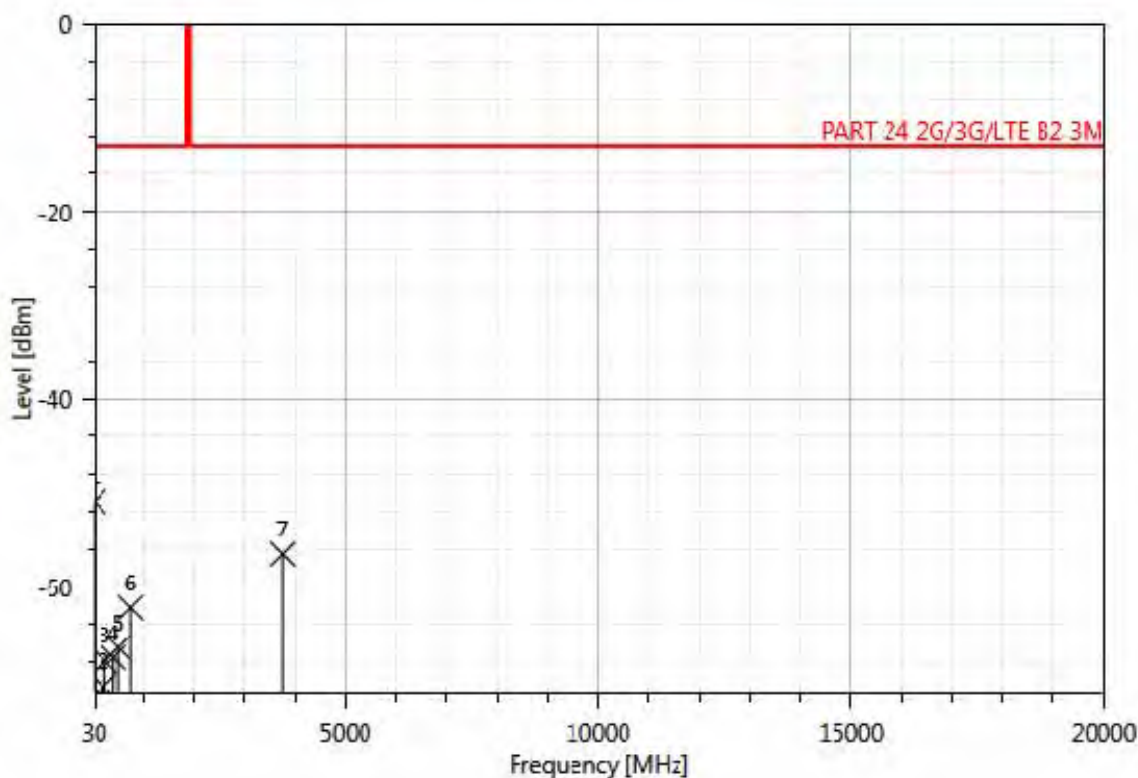
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Operation Mode : HSDPA B2
Fundamental Frequency : 1880 MHz
Operation Band : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 12/23/2016 23:49:02
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Tin
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
31.94	S	Peak	-50.95	-37.82	-12.16	-0.96	-13.00	-37.95
209.45	S	Peak	-70.65	-74.64	5.65	-1.67	-13.00	-57.65
239.52	S	Peak	-67.92	-71.61	5.43	-1.74	-13.00	-54.92
413.15	S	Peak	-67.56	-71.10	5.92	-2.38	-13.00	-54.56
510.15	S	Peak	-66.49	-70.10	5.95	-2.34	-13.00	-53.49
744.89	S	Peak	-62.25	-64.46	5.32	-3.11	-13.00	-49.25
3760.00	S	Peak	-56.55	-62.41	12.45	-6.60	-13.00	-43.55

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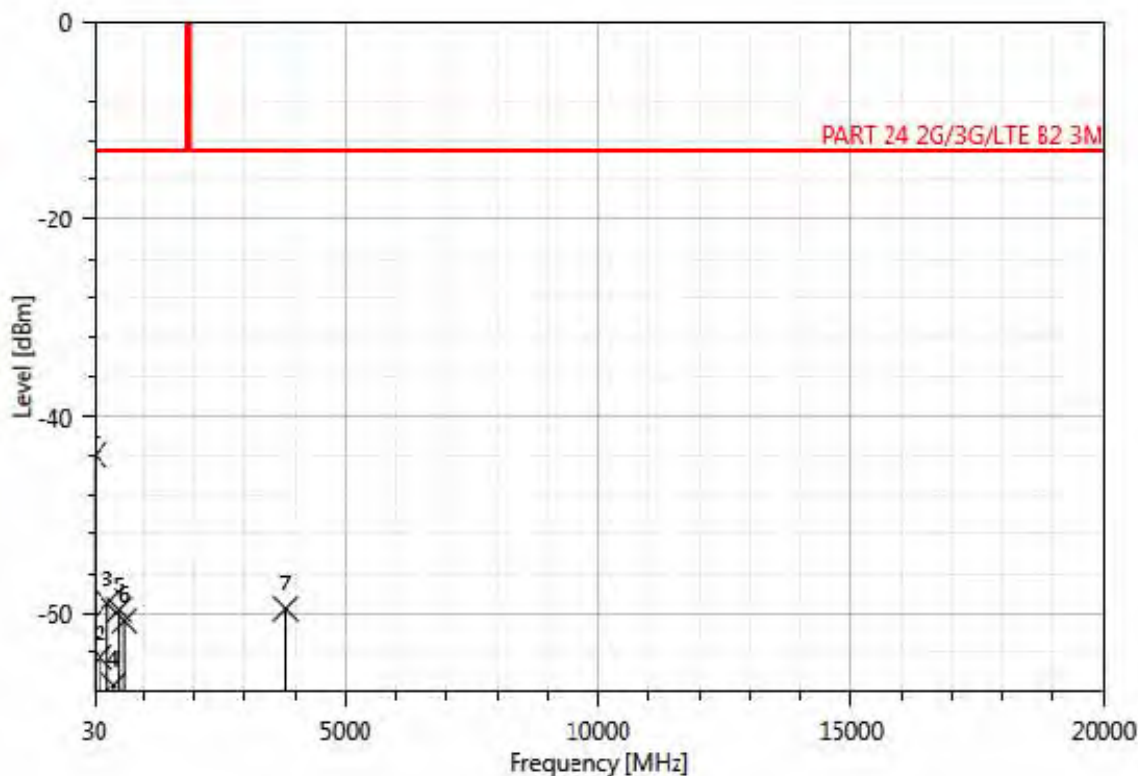
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Operation Mode :	HSDPA B2	Test Date :	12/23/2016 23:49:05
Fundamental Frequency :	1907.6 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	QP/AV/PK	Level dBm	Level dBm	Gain dBi	Loss dB	@3m dBm	dB
39.70	S	Peak	-43.94	-31.99	-10.96	-0.99	-13.00	-30.94
148.34	S	Peak	-64.50	-63.03	-0.04	-1.42	-13.00	-51.50
296.75	S	Peak	-59.04	-62.80	5.71	-1.95	-13.00	-46.04
419.94	S	Peak	-67.25	-70.81	5.90	-2.33	-13.00	-54.25
527.61	S	Peak	-59.66	-63.05	5.86	-2.47	-13.00	-46.66
628.49	S	Peak	-60.74	-63.59	5.33	-2.47	-13.00	-47.74
3815.20	S	Peak	-59.56	-65.40	12.46	-6.63	-13.00	-46.56

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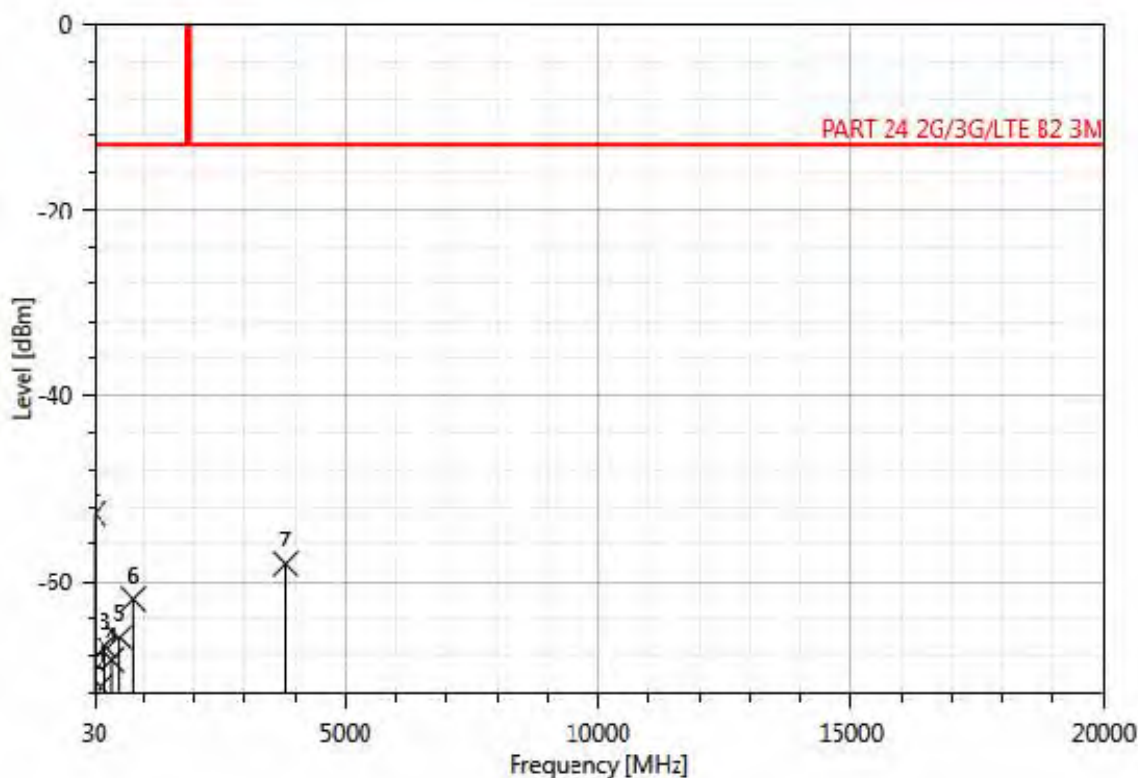
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Operation Mode :	HSDPA B2	Test Date :	12/23/2016 23:49:07
Fundamental Frequency :	1907.6 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	QP/AV/PK	Level dBm	Level dBm	Gain dBi	Loss dB	@3m dBm	dB
31.94	S	Peak	-52.68	-39.55	-12.16	-0.96	-13.00	-39.68
154.16	S	Peak	-71.32	-70.12	0.25	-1.45	-13.00	-58.32
245.34	S	Peak	-67.03	-70.80	5.52	-1.75	-13.00	-54.03
384.05	S	Peak	-68.48	-72.17	5.98	-2.29	-13.00	-55.48
527.61	S	Peak	-66.04	-69.43	5.86	-2.47	-13.00	-53.04
796.30	S	Peak	-61.97	-64.55	5.48	-2.90	-13.00	-48.97
3815.20	S	Peak	-58.09	-63.92	12.46	-6.63	-13.00	-45.09

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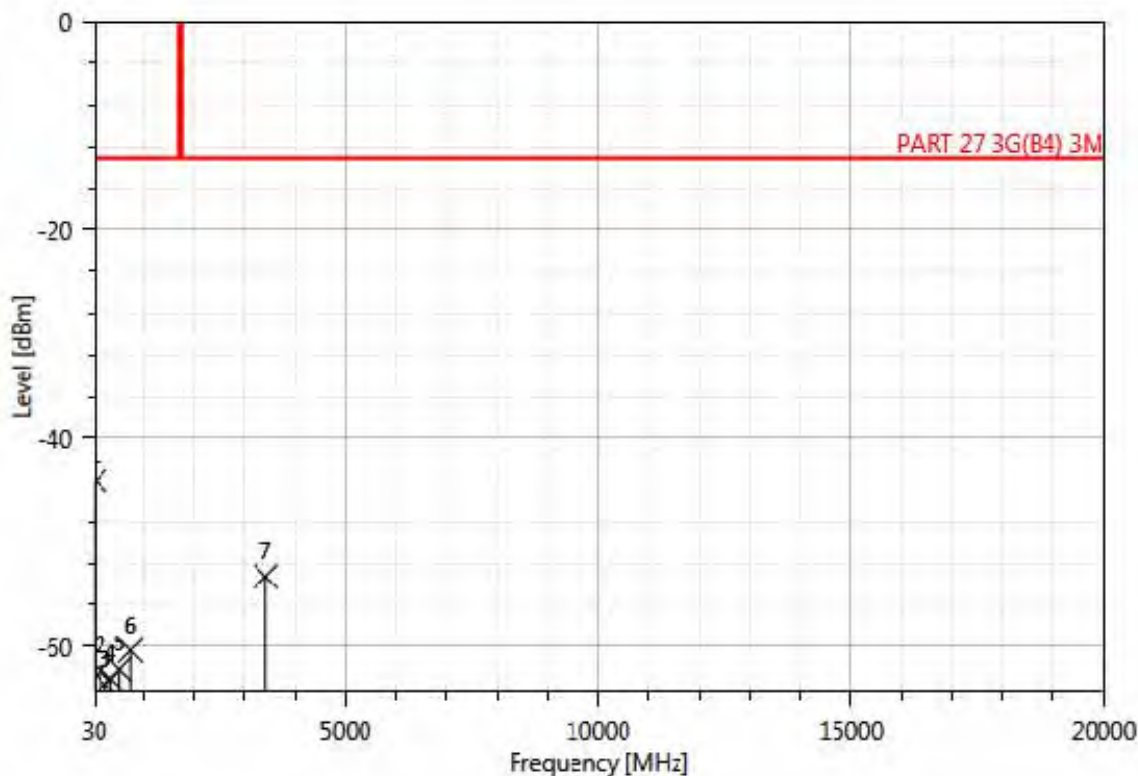
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Radiated Spurious Emission Measurement Result: HSDPA Band IV Mode

Operation Mode :	HSDPA B4	Test Date :	12/23/2016 23:50:03
Fundamental Frequency :	1712.4 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	QP/AV/PK	Level dBm	Level dBm	Gain dBi	Loss dB	@3m dBm	dB
39.70	S	Peak	-44.06	-32.11	-10.96	-0.99	-13.00	-31.06
148.34	S	Peak	-62.30	-60.84	-0.04	-1.42	-13.00	-49.30
256.01	S	Peak	-63.65	-67.62	5.73	-1.77	-13.00	-50.65
356.89	S	Peak	-63.03	-66.94	6.01	-2.10	-13.00	-50.03
527.61	S	Peak	-62.16	-65.54	5.86	-2.47	-13.00	-49.16
744.89	S	Peak	-60.38	-62.60	5.32	-3.11	-13.00	-47.38
3424.80	S	Peak	-53.25	-59.29	12.27	-6.23	-13.00	-40.25

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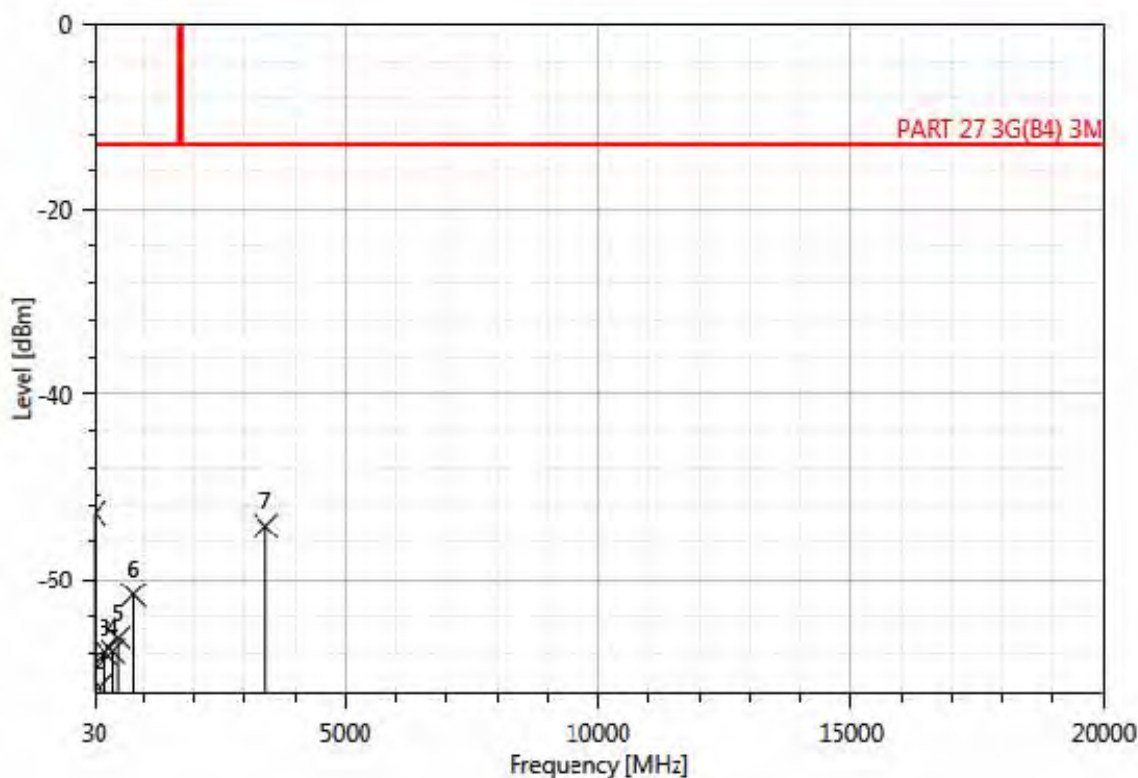
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Operation Mode :	HSDPA B4	Test Date :	12/23/2016 23:50:06
Fundamental Frequency :	1712.4 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	QP/AV/PK	Level dBm	Level dBm	Gain dBi	Loss dB	@3m dBm	dB
31.94	S	Peak	-52.79	-39.66	-12.16	-0.96	-13.00	-39.79
138.64	S	Peak	-71.50	-69.57	-0.54	-1.39	-13.00	-58.50
245.34	S	Peak	-67.87	-71.64	5.52	-1.75	-13.00	-54.87
403.45	S	Peak	-67.76	-71.32	5.96	-2.40	-13.00	-54.76
507.24	S	Peak	-66.22	-69.85	5.97	-2.33	-13.00	-53.22
799.21	S	Peak	-61.60	-64.19	5.49	-2.90	-13.00	-48.60
3424.80	S	Peak	-54.17	-60.21	12.27	-6.23	-13.00	-41.17

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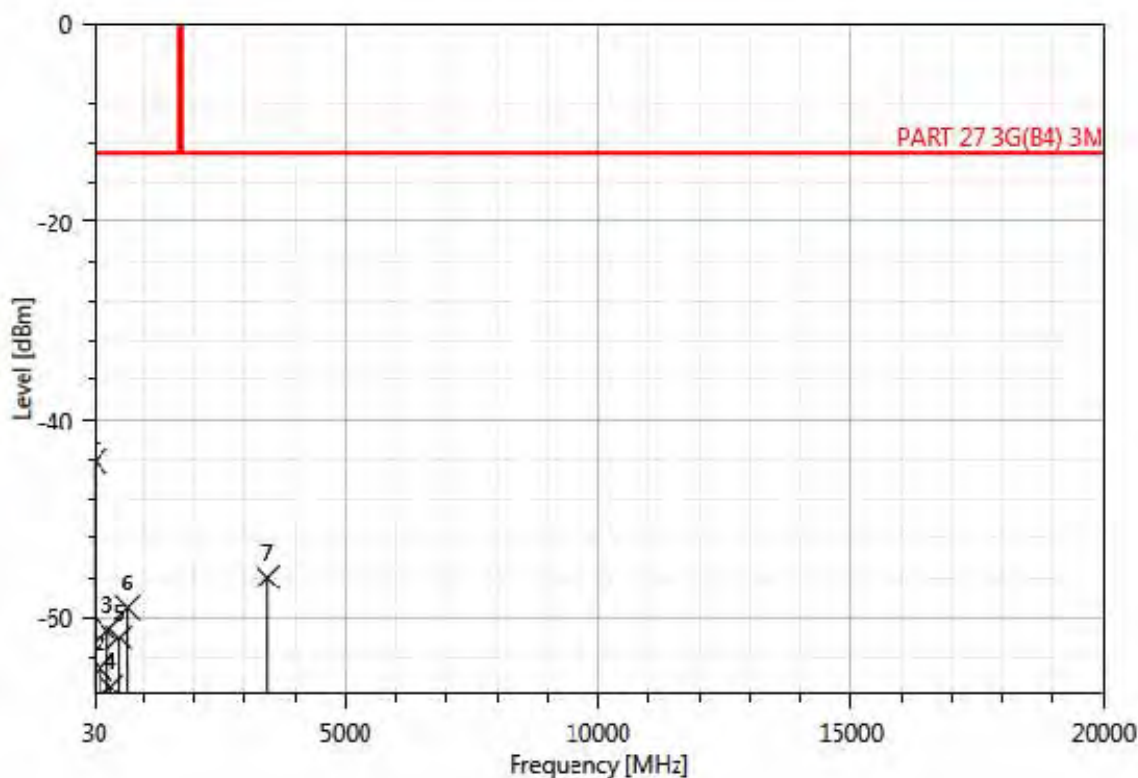
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Operation Mode :	HSDPA B4	Test Date :	12/23/2016 23:50:08
Fundamental Frequency :	1732.6 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	QP/AV/PK	Level dBm	Level dBm	Gain dBi	Loss dB	@3m dBm	dB
39.70	S	Peak	-44.16	-32.20	-10.96	-0.99	-13.00	-31.16
148.34	S	Peak	-65.10	-63.64	-0.04	-1.42	-13.00	-52.10
293.84	S	Peak	-61.27	-64.98	5.65	-1.94	-13.00	-48.27
357.86	S	Peak	-66.96	-70.86	6.00	-2.11	-13.00	-53.96
527.61	S	Peak	-62.03	-65.41	5.86	-2.47	-13.00	-49.03
686.69	S	Peak	-59.02	-61.52	5.25	-2.74	-13.00	-46.02
3465.20	S	Peak	-55.92	-62.01	12.34	-6.25	-13.00	-42.92

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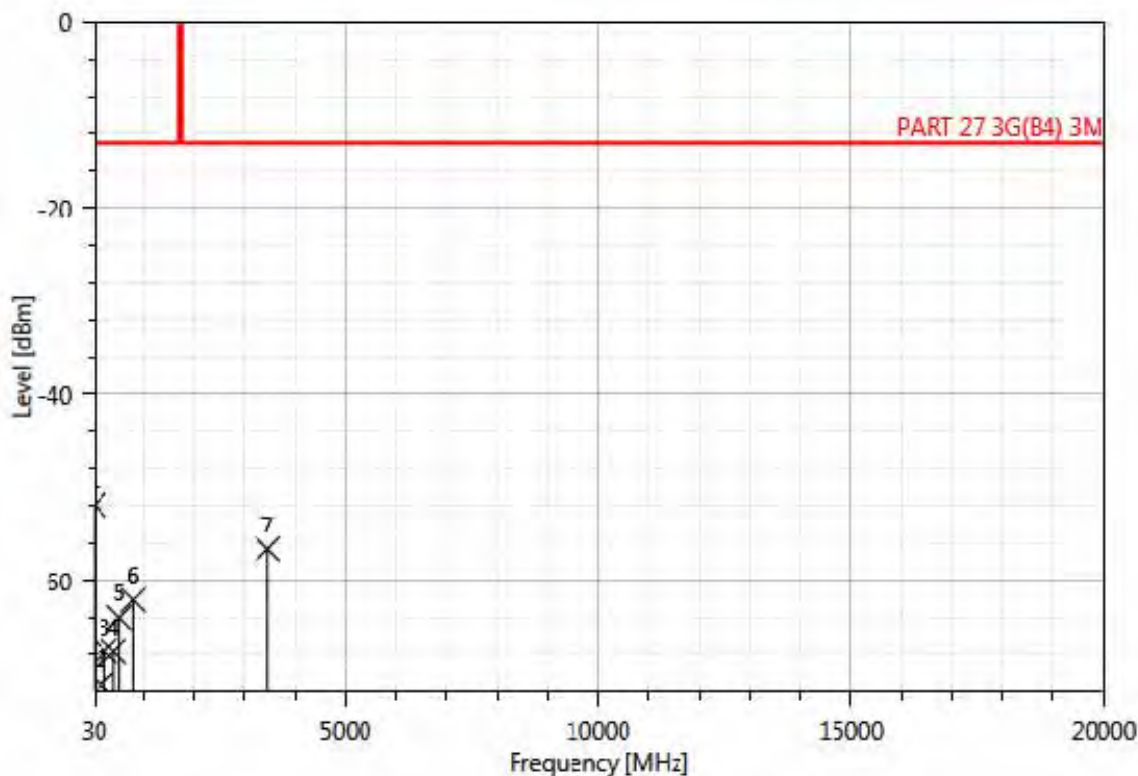
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Operation Mode :	HSDPA B4	Test Date :	12/23/2016 23:50:11
Fundamental Frequency :	1732.6 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	
		QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
31.94	S	Peak	-51.94	-38.81	-12.16	-0.96	-13.00	-38.94
165.80	S	Peak	-71.21	-70.65	0.94	-1.50	-13.00	-58.21
241.46	S	Peak	-67.65	-71.37	5.46	-1.74	-13.00	-54.65
418.00	S	Peak	-67.70	-71.26	5.91	-2.35	-13.00	-54.70
527.61	S	Peak	-64.01	-67.40	5.86	-2.47	-13.00	-51.01
796.30	S	Peak	-62.14	-64.72	5.48	-2.90	-13.00	-49.14
3465.20	S	Peak	-56.68	-62.77	12.34	-6.25	-13.00	-43.68

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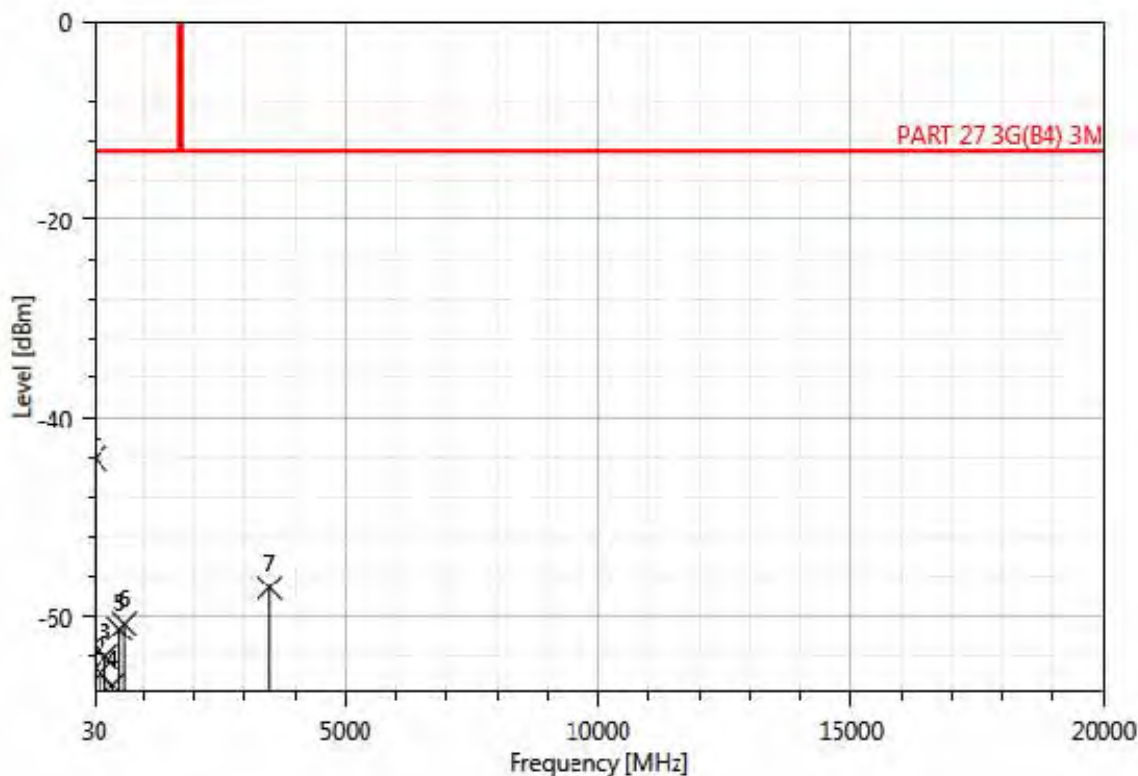
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Operation Mode :	HSDPA B4	Test Date :	12/23/2016 23:50:14
Fundamental Frequency :	1752.6 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	QP/AV/PK	Level dBm	Level dBm	Gain dBi	Loss dB	@3m dBm	dB
41.64	S	Peak	-44.03	-32.34	-10.68	-1.00	-13.00	-31.03
148.34	S	Peak	-65.73	-64.26	-0.04	-1.42	-13.00	-52.73
253.10	S	Peak	-64.10	-68.00	5.66	-1.76	-13.00	-51.10
398.60	S	Peak	-66.89	-70.49	5.97	-2.37	-13.00	-53.89
527.61	S	Peak	-61.27	-64.65	5.86	-2.47	-13.00	-48.27
629.46	S	Peak	-60.75	-63.62	5.33	-2.47	-13.00	-47.75
3505.20	S	Peak	-57.14	-63.08	12.40	-6.47	-13.00	-44.14

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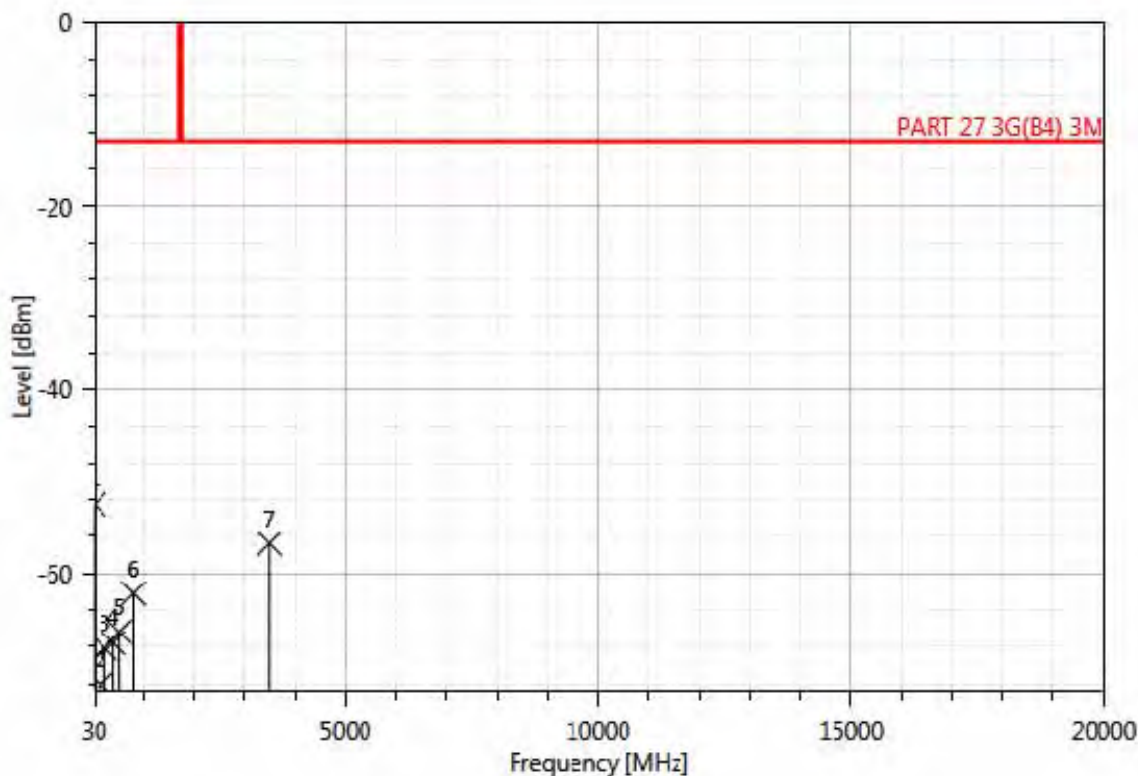
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Fundamental Frequency :	1752.6 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
31.94	S	Peak	-52.51	-39.38	-12.16	-0.96	-13.00	-39.51
154.16	S	Peak	-72.10	-70.89	0.25	-1.45	-13.00	-59.10
239.52	S	Peak	-68.12	-71.81	5.43	-1.74	-13.00	-55.12
410.24	S	Peak	-67.58	-71.11	5.93	-2.40	-13.00	-54.58
527.61	S	Peak	-66.36	-69.75	5.86	-2.47	-13.00	-53.36
800.18	S	Peak	-62.19	-64.78	5.49	-2.90	-13.00	-49.19
3505.20	S	Peak	-56.76	-62.70	12.40	-6.47	-13.00	-43.76

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