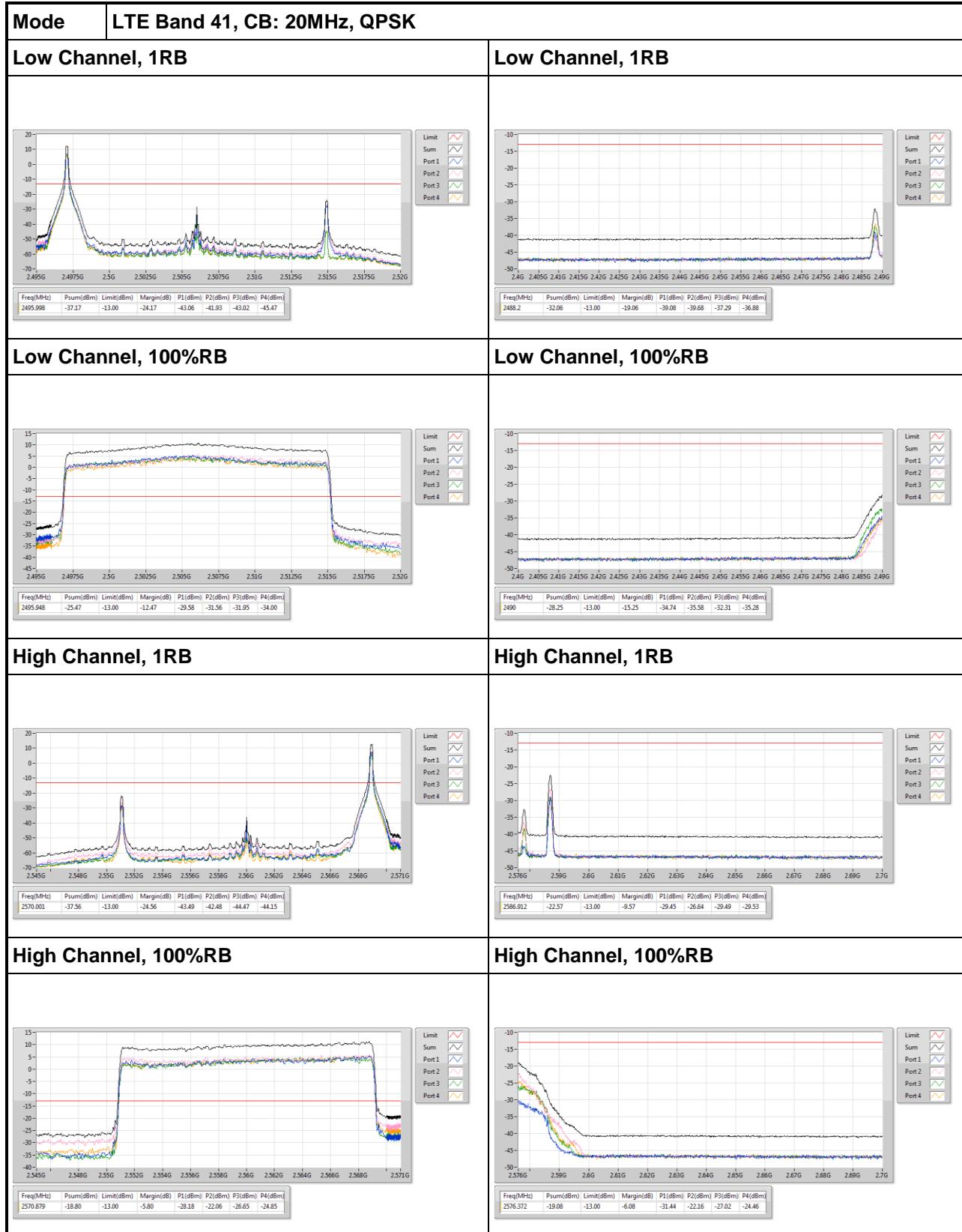
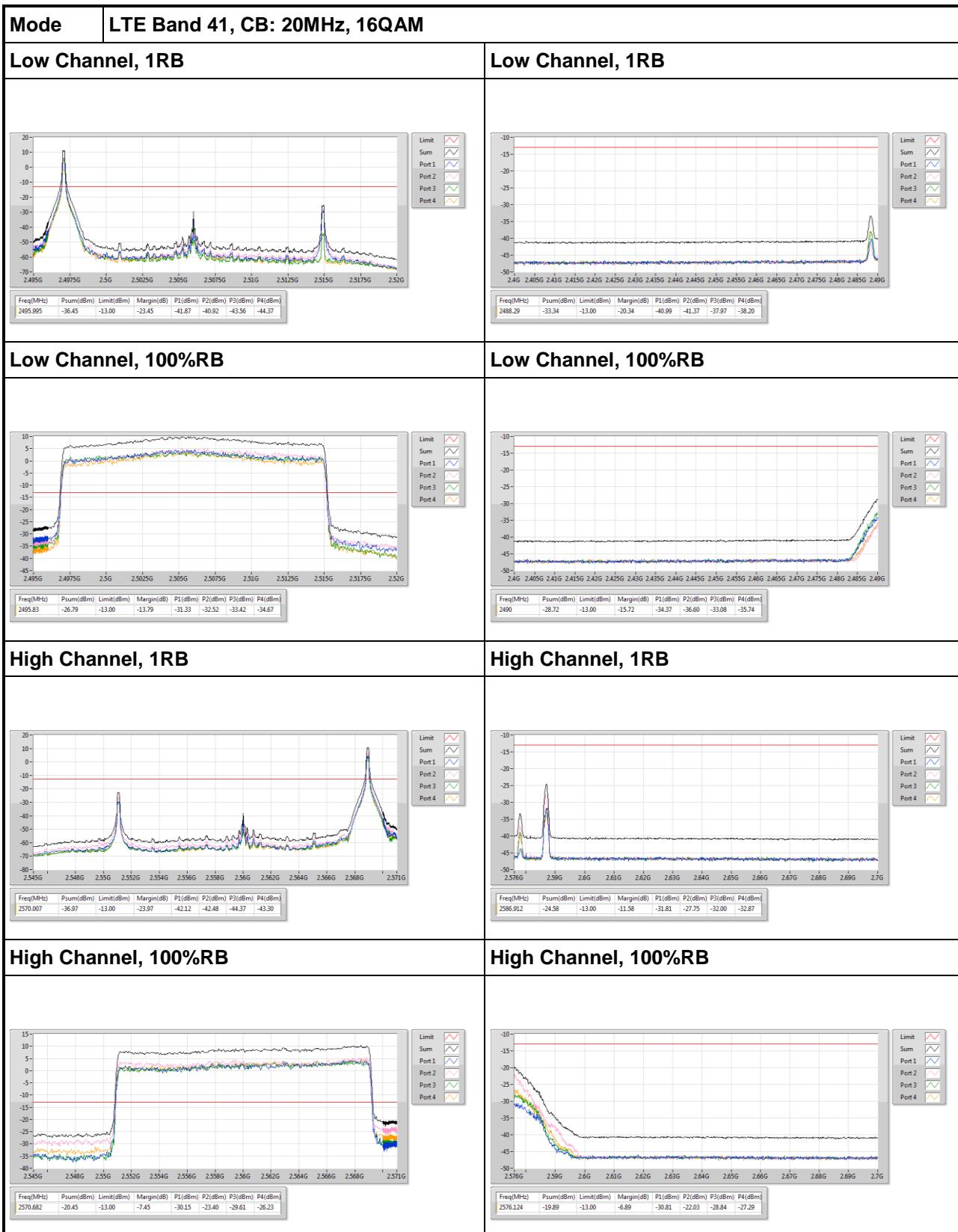
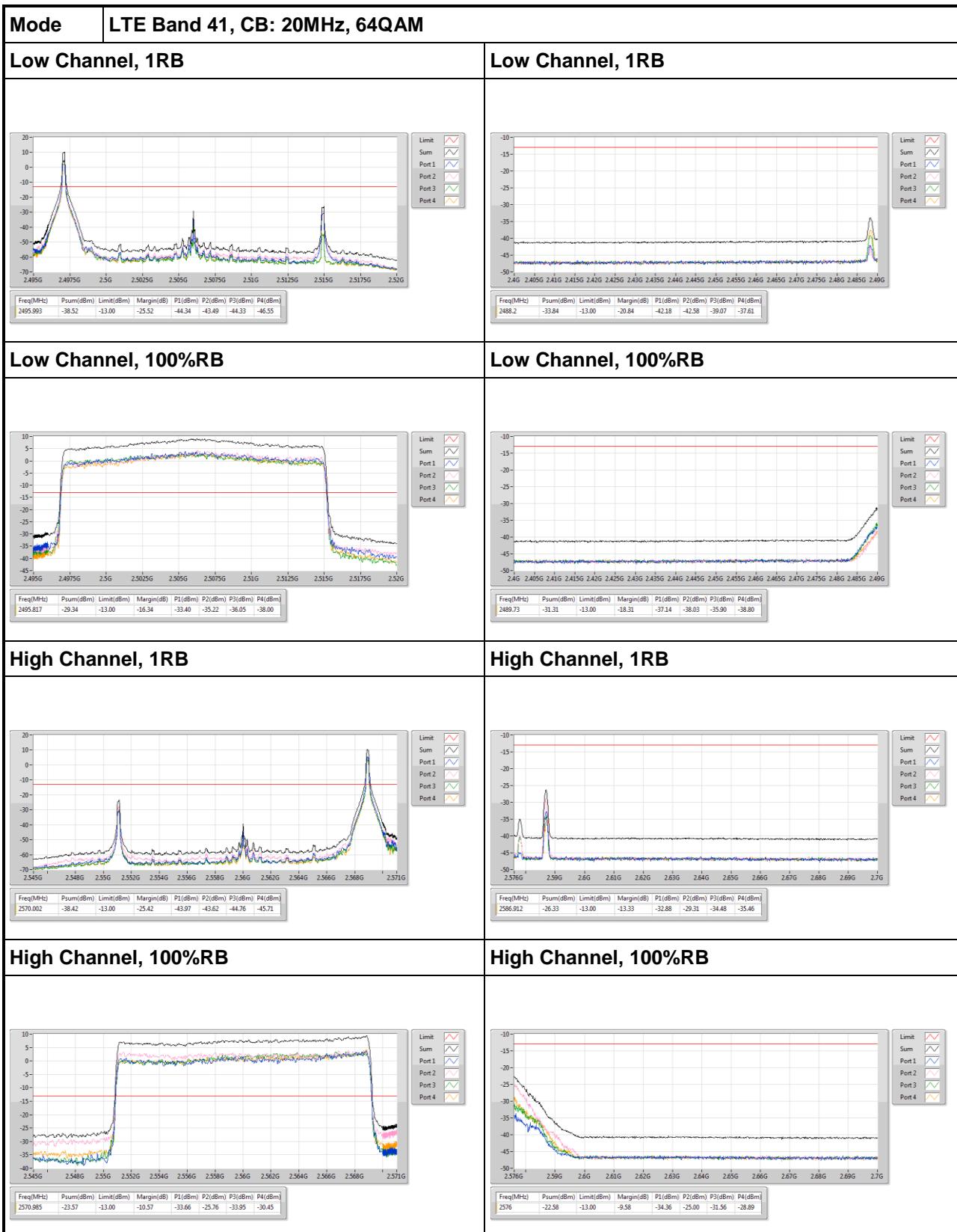


LTE Band 41, CB: 20MHz







3.4.5 Measured Channel Edge Result_CDD mode

LTE Band 41, CB: 5MHz

| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|-------------|---------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| QPSK | 2498.5 | 1 | 0 | 2495~2494 | -32.262 | -31.209 | -31.910 | -32.598 | -25.94 | -13.00 |
| | | | | 2494~2493 | -40.984 | -40.110 | -40.440 | -41.186 | -34.64 | -13.00 |
| | | | | 2493~2492 | -35.030 | -34.503 | -36.236 | -37.036 | -29.57 | -13.00 |
| | | | | 2492~2491 | -35.342 | -34.960 | -37.034 | -37.776 | -30.10 | -13.00 |
| | | | | 2491~2490 | -45.128 | -44.887 | -44.552 | -45.134 | -38.90 | -13.00 |
| | 2498.5 | 25 | 0 | 2495~2494 | -23.718 | -24.576 | -21.559 | -25.855 | -17.62 | -13.00 |
| | | | | 2494~2493 | -27.206 | -27.508 | -25.127 | -29.079 | -20.98 | -13.00 |
| | | | | 2493~2492 | -31.678 | -30.367 | -29.392 | -32.257 | -24.76 | -13.00 |
| | | | | 2492~2491 | -37.548 | -32.791 | -36.035 | -35.437 | -29.08 | -13.00 |
| | | | | 2491~2490 | -40.298 | -35.368 | -38.682 | -37.501 | -31.57 | -13.00 |
| 2567.5 | 1 | 24 | 0 | 2571~2572 | -33.821 | -30.940 | -34.230 | -33.327 | -26.86 | -13.00 |
| | | | | 2572~2573 | -41.314 | -39.206 | -41.574 | -40.939 | -34.63 | -13.00 |
| | | | | 2573~2574 | -42.617 | -40.711 | -37.975 | -36.827 | -32.95 | -13.00 |
| | | | | 2574~2575 | -43.340 | -41.460 | -39.267 | -38.145 | -34.10 | -13.00 |
| | | | | 2575~2576 | -45.261 | -44.427 | -45.169 | -45.116 | -38.96 | -13.00 |
| | 2567.5 | 25 | 0 | 2571~2572 | -15.597 | -22.880 | -20.484 | -21.700 | -13.15 | -13.00 |
| | | | | 2572~2573 | -17.604 | -24.876 | -22.972 | -24.125 | -15.30 | -13.00 |
| | | | | 2573~2574 | -21.086 | -28.677 | -27.317 | -28.768 | -19.09 | -13.00 |
| | | | | 2574~2575 | -23.933 | -33.441 | -32.991 | -34.566 | -22.72 | -13.00 |
| | | | | 2575~2576 | -27.510 | -37.099 | -38.029 | -39.090 | -26.48 | -13.00 |

Worst Plot of QPSK, Low Channel



Worst Plot of QPSK, High Channel



| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 16QAM | 2498.5 | 1 | 0 | 2495~2494 | -33.187 | -31.670 | -32.639 | -33.195 | -26.61 | -13.00 |
| | | | | 2494~2493 | -41.776 | -40.662 | -41.319 | -41.662 | -35.31 | -13.00 |
| | | | | 2493~2492 | -36.118 | -35.140 | -37.251 | -38.113 | -30.49 | -13.00 |
| | | | | 2492~2491 | -36.668 | -35.731 | -38.131 | -38.955 | -31.17 | -13.00 |
| | | | | 2491~2490 | -45.263 | -45.088 | -45.099 | -45.208 | -39.14 | -13.00 |
| | 2498.5 | 25 | 0 | 2495~2494 | -29.189 | -26.214 | -24.260 | -28.230 | -20.53 | -13.00 |
| | | | | 2494~2493 | -32.522 | -29.170 | -28.263 | -31.523 | -24.02 | -13.00 |
| | | | | 2493~2492 | -35.946 | -32.296 | -32.771 | -35.004 | -27.73 | -13.00 |
| | | | | 2492~2491 | -39.300 | -35.399 | -38.122 | -37.757 | -31.38 | -13.00 |
| | | | | 2491~2490 | -40.629 | -37.833 | -39.821 | -39.184 | -33.22 | -13.00 |
| | 2567.5 | 1 | 24 | 2571~2572 | -34.556 | -31.843 | -34.837 | -33.896 | -27.59 | -13.00 |
| | | | | 2572~2573 | -41.628 | -39.793 | -41.862 | -41.274 | -35.04 | -13.00 |
| | | | | 2573~2574 | -42.995 | -40.968 | -39.136 | -37.920 | -33.83 | -13.00 |
| | | | | 2574~2575 | -43.669 | -41.927 | -40.303 | -39.037 | -34.88 | -13.00 |
| | | | | 2575~2576 | -45.294 | -44.569 | -45.227 | -45.198 | -39.04 | -13.00 |
| | 2567.5 | 25 | 0 | 2571~2572 | -23.747 | -16.376 | -23.672 | -24.334 | -14.53 | -13.00 |
| | | | | 2572~2573 | -26.605 | -18.558 | -26.641 | -26.800 | -16.91 | -13.00 |
| | | | | 2573~2574 | -30.624 | -22.122 | -31.531 | -31.110 | -20.72 | -13.00 |
| | | | | 2574~2575 | -36.100 | -26.877 | -37.401 | -35.621 | -25.60 | -13.00 |
| | | | | 2575~2576 | -38.823 | -30.200 | -39.481 | -38.066 | -28.68 | -13.00 |

Worst Plot of 16QAM, Low Channel



Worst Plot of 16QAM, High Channel



| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 64QAM | 2498.5 | 1 | 0 | 2495~2494 | -34.954 | -33.671 | -33.746 | -34.665 | -28.20 | -13.00 |
| | | | | 2494~2493 | -42.426 | -41.620 | -41.596 | -42.409 | -35.97 | -13.00 |
| | | | | 2493~2492 | -39.895 | -38.448 | -38.876 | -40.447 | -33.32 | -13.00 |
| | | | | 2492~2491 | -40.186 | -38.927 | -39.270 | -40.800 | -33.71 | -13.00 |
| | | | | 2491~2490 | -45.372 | -45.277 | -44.806 | -45.334 | -39.17 | -13.00 |
| | 2498.5 | 25 | 0 | 2495~2494 | -30.983 | -26.818 | -27.408 | -31.220 | -22.64 | -13.00 |
| | | | | 2494~2493 | -34.131 | -30.214 | -31.265 | -34.135 | -26.07 | -13.00 |
| | | | | 2493~2492 | -36.905 | -34.223 | -35.640 | -37.001 | -29.77 | -13.00 |
| | | | | 2492~2491 | -39.421 | -37.517 | -39.417 | -38.967 | -32.74 | -13.00 |
| | | | | 2491~2490 | -40.408 | -39.215 | -40.786 | -40.179 | -34.09 | -13.00 |
| | 2567.5 | 1 | 24 | 2571~2572 | -38.129 | -35.605 | -38.783 | -37.990 | -31.43 | -13.00 |
| | | | | 2572~2573 | -43.138 | -41.517 | -43.406 | -43.079 | -36.70 | -13.00 |
| | | | | 2573~2574 | -43.432 | -41.530 | -41.606 | -40.160 | -35.51 | -13.00 |
| | | | | 2574~2575 | -43.917 | -42.188 | -42.211 | -41.021 | -36.20 | -13.00 |
| | | | | 2575~2576 | -45.387 | -44.741 | -45.227 | -45.298 | -39.14 | -13.00 |
| | 2567.5 | 25 | 0 | 2571~2572 | -26.850 | -18.091 | -26.816 | -27.804 | -16.71 | -13.00 |
| | | | | 2572~2573 | -29.616 | -20.642 | -29.935 | -30.319 | -19.33 | -13.00 |
| | | | | 2573~2574 | -33.462 | -24.823 | -34.113 | -33.540 | -23.40 | -13.00 |
| | | | | 2574~2575 | -36.958 | -29.917 | -38.012 | -36.655 | -27.97 | -13.00 |
| | | | | 2575~2576 | -38.912 | -32.148 | -39.759 | -38.464 | -30.06 | -13.00 |

Worst Plot of 64QAM, Low Channel



Worst Plot of 64QAM, High Channel



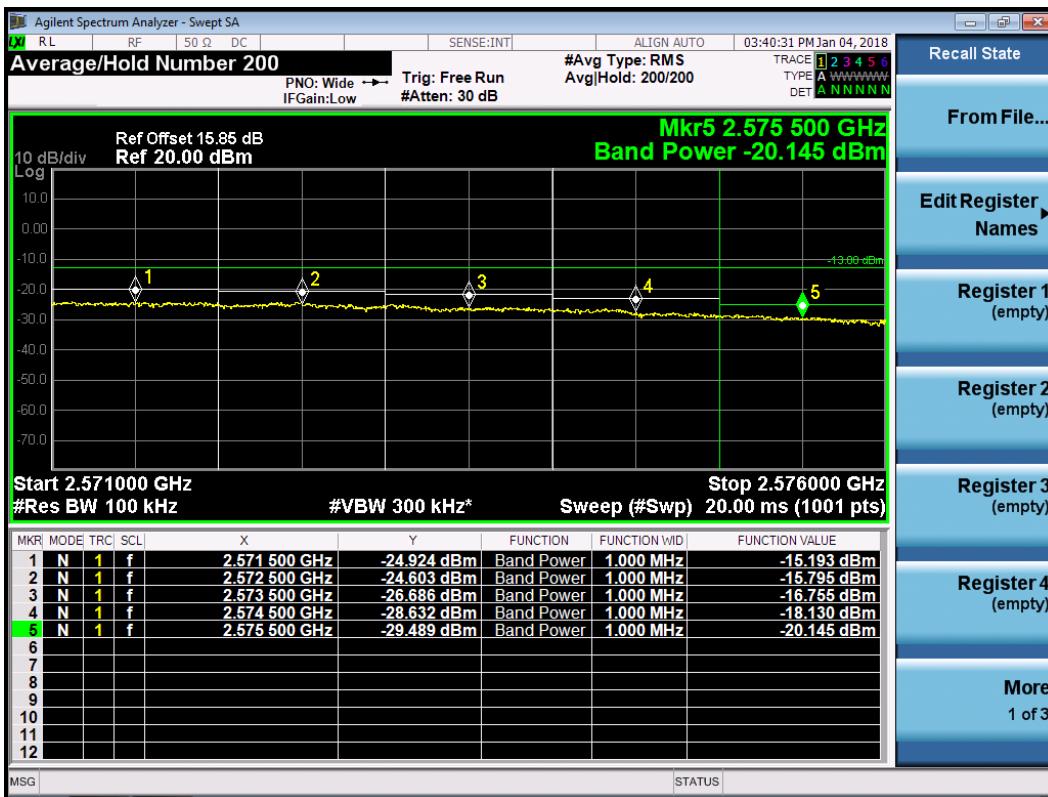
LTE Band 41, CB: 10MHz

| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|-------------|---------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| QPSK | 2501.0 | 1 | 0 | 2495~2494 | -33.592 | -32.831 | -32.477 | -33.381 | -27.03 | -13.00 |
| | | | | 2494~2493 | -39.851 | -39.263 | -38.545 | -39.526 | -33.25 | -13.00 |
| | | | | 2493~2492 | -40.272 | -39.642 | -35.820 | -37.152 | -31.82 | -13.00 |
| | | | | 2492~2491 | -43.912 | -43.193 | -42.414 | -43.086 | -37.10 | -13.00 |
| | | | | 2491~2490 | -44.925 | -44.723 | -44.074 | -44.838 | -38.61 | -13.00 |
| | 2501.0 | 50 | 0 | 2495~2494 | -29.635 | -30.640 | -24.777 | -27.947 | -21.62 | -13.00 |
| | | | | 2494~2493 | -31.373 | -32.934 | -26.806 | -30.118 | -23.67 | -13.00 |
| | | | | 2493~2492 | -32.910 | -34.533 | -28.675 | -31.954 | -25.44 | -13.00 |
| | | | | 2492~2491 | -34.693 | -36.256 | -30.659 | -33.639 | -27.29 | -13.00 |
| | | | | 2491~2490 | -36.786 | -38.226 | -32.930 | -35.509 | -29.39 | -13.00 |
| 2565.0 | 2565.0 | 1 | 49 | 2571~2572 | -31.756 | -29.401 | -32.622 | -31.724 | -25.18 | -13.00 |
| | | | | 2572~2573 | -38.137 | -35.748 | -38.423 | -37.800 | -31.37 | -13.00 |
| | | | | 2573~2574 | -39.049 | -32.462 | -38.670 | -38.644 | -30.16 | -13.00 |
| | | | | 2574~2575 | -43.572 | -40.296 | -43.481 | -43.503 | -36.44 | -13.00 |
| | | | | 2575~2576 | -44.770 | -43.138 | -44.451 | -44.648 | -38.18 | -13.00 |
| | 2565.0 | 50 | 0 | 2571~2572 | -15.193 | -21.457 | -22.736 | -24.158 | -13.32 | -13.00 |
| | | | | 2572~2573 | -15.795 | -22.059 | -23.388 | -25.103 | -13.95 | -13.00 |
| | | | | 2573~2574 | -16.755 | -23.233 | -24.361 | -25.878 | -14.93 | -13.00 |
| | | | | 2574~2575 | -18.130 | -24.675 | -25.635 | -26.847 | -16.27 | -13.00 |
| | | | | 2575~2576 | -20.145 | -26.627 | -27.655 | -28.738 | -18.27 | -13.00 |

Worst Plot of QPSK, Low Channel

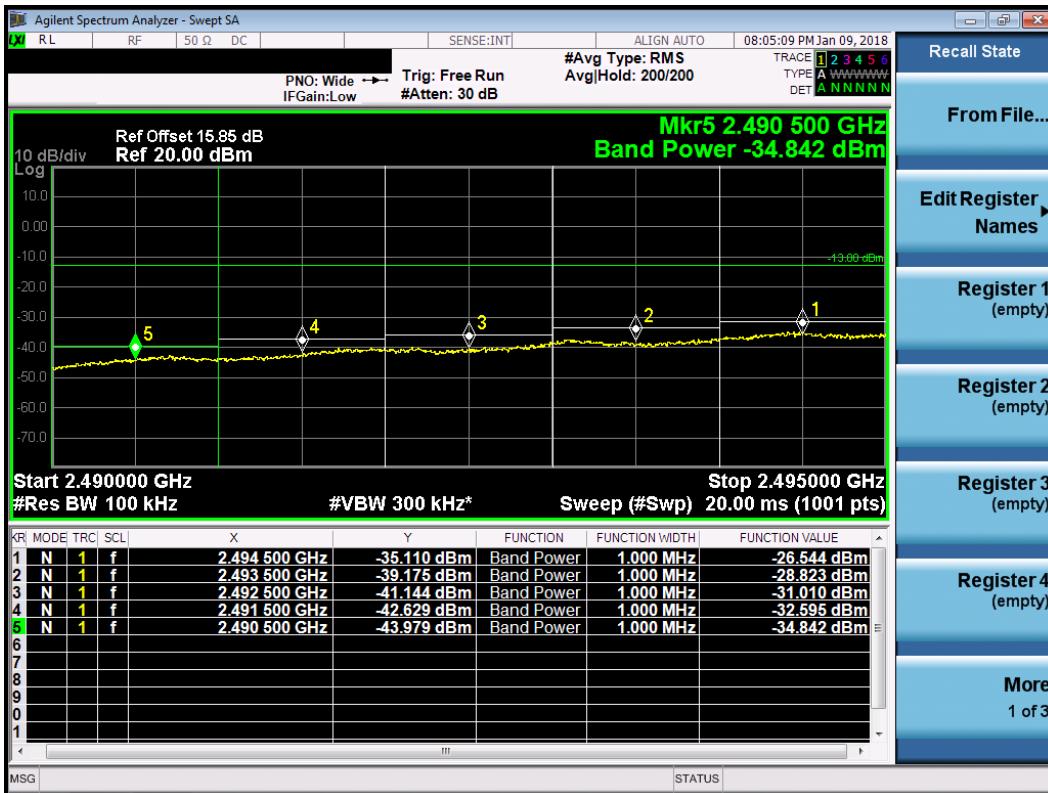


Worst Plot of QPSK, High Channel

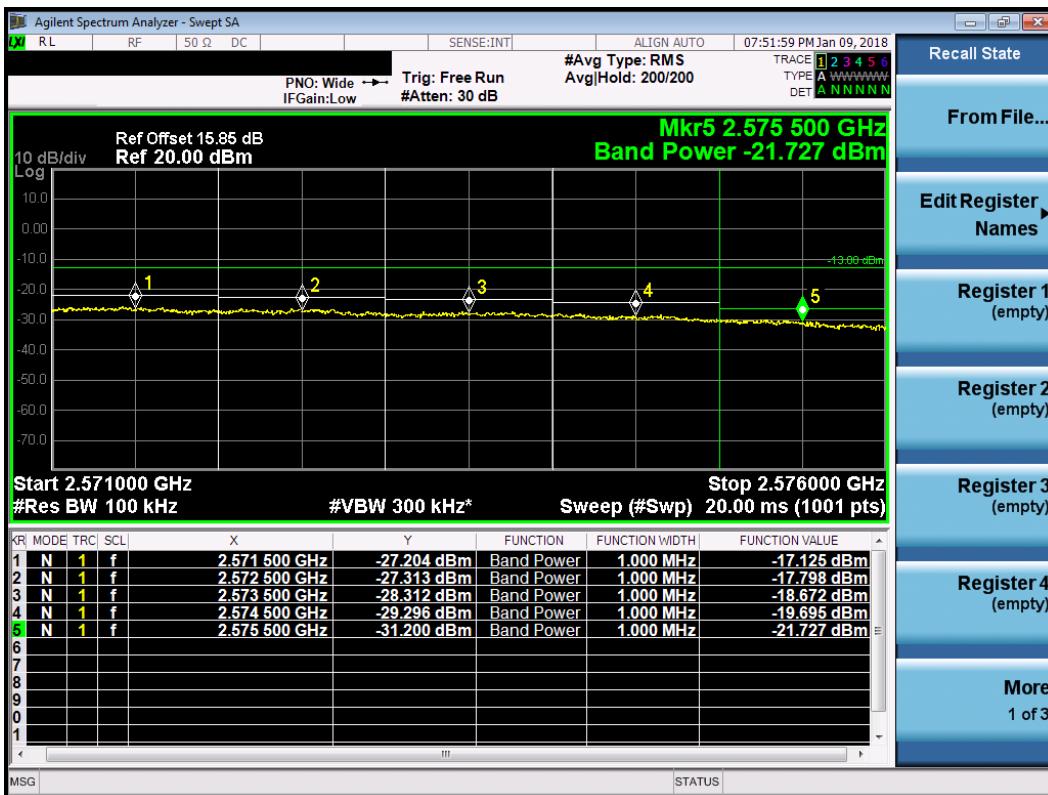


| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 16QAM | 2501.0 | 1 | 0 | 2495~2494 | -33.699 | -32.598 | -32.624 | -33.389 | -27.03 | -13.00 |
| | | | | 2494~2493 | -39.989 | -39.337 | -39.095 | -39.698 | -33.50 | -13.00 |
| | | | | 2493~2492 | -40.769 | -40.084 | -37.245 | -38.060 | -32.78 | -13.00 |
| | | | | 2492~2491 | -44.133 | -43.557 | -43.619 | -43.750 | -37.74 | -13.00 |
| | | | | 2491~2490 | -45.042 | -44.861 | -44.863 | -44.963 | -38.91 | -13.00 |
| | 2501.0 | 50 | 0 | 2495~2494 | -29.794 | -30.078 | -26.544 | -29.514 | -22.70 | -13.00 |
| | | | | 2494~2493 | -31.747 | -32.198 | -28.823 | -31.677 | -24.86 | -13.00 |
| | | | | 2493~2492 | -33.449 | -33.951 | -31.010 | -33.966 | -26.89 | -13.00 |
| | | | | 2492~2491 | -34.973 | -35.608 | -32.595 | -35.611 | -28.48 | -13.00 |
| | | | | 2491~2490 | -36.789 | -37.800 | -34.842 | -37.273 | -30.50 | -13.00 |
| | 2565.0 | 1 | 49 | 2571~2572 | -31.873 | -29.455 | -32.733 | -31.885 | -25.28 | -13.00 |
| | | | | 2572~2573 | -38.127 | -35.938 | -38.716 | -37.893 | -31.51 | -13.00 |
| | | | | 2573~2574 | -39.964 | -34.317 | -39.243 | -38.999 | -31.45 | -13.00 |
| | | | | 2574~2575 | -43.654 | -41.179 | -43.926 | -43.596 | -36.91 | -13.00 |
| | | | | 2575~2576 | -44.849 | -43.604 | -44.918 | -44.780 | -38.48 | -13.00 |
| | 2565.0 | 50 | 0 | 2571~2572 | -27.612 | -17.125 | -25.746 | -22.650 | -15.34 | -13.00 |
| | | | | 2572~2573 | -28.573 | -17.798 | -26.780 | -23.531 | -16.10 | -13.00 |
| | | | | 2573~2574 | -29.627 | -18.672 | -28.096 | -24.880 | -17.11 | -13.00 |
| | | | | 2574~2575 | -30.830 | -19.695 | -29.503 | -26.162 | -18.21 | -13.00 |
| | | | | 2575~2576 | -32.865 | -21.727 | -31.523 | -28.294 | -20.26 | -13.00 |

Worst Plot of 16QAM, Low Channel



Worst Plot of 16QAM, High Channel

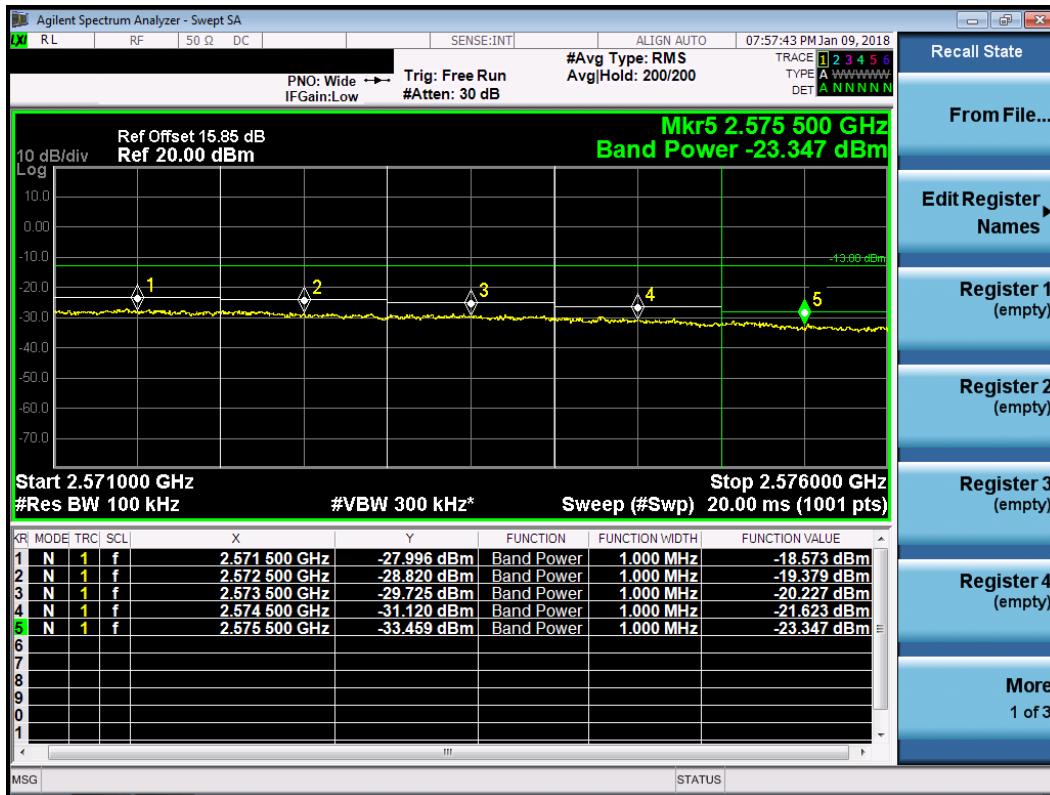


| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 64QAM | 2501.0 | 1 | 0 | 2495~2494 | -33.724 | -32.990 | -34.042 | -34.791 | -27.82 | -13.00 |
| | | | | 2494~2493 | -40.113 | -39.462 | -40.039 | -40.554 | -34.00 | -13.00 |
| | | | | 2493~2492 | -42.314 | -41.410 | -39.457 | -39.787 | -34.57 | -13.00 |
| | | | | 2492~2491 | -44.465 | -44.080 | -44.326 | -44.440 | -38.30 | -13.00 |
| | | | | 2491~2490 | -45.141 | -44.918 | -45.060 | -45.104 | -39.03 | -13.00 |
| | 2501.0 | 50 | 0 | 2495~2494 | -32.446 | -32.013 | -29.258 | -32.201 | -25.25 | -13.00 |
| | | | | 2494~2493 | -34.299 | -33.933 | -31.260 | -34.287 | -27.22 | -13.00 |
| | | | | 2493~2492 | -35.849 | -35.684 | -33.460 | -36.319 | -29.16 | -13.00 |
| | | | | 2492~2491 | -37.040 | -37.547 | -35.367 | -37.682 | -30.78 | -13.00 |
| | | | | 2491~2490 | -38.429 | -39.211 | -37.382 | -39.134 | -32.45 | -13.00 |
| | 2565.0 | 1 | 49 | 2571~2572 | -31.869 | -29.726 | -33.013 | -32.207 | -25.50 | -13.00 |
| | | | | 2572~2573 | -38.233 | -36.316 | -38.943 | -38.363 | -31.82 | -13.00 |
| | | | | 2573~2574 | -40.802 | -36.027 | -40.814 | -40.681 | -33.00 | -13.00 |
| | | | | 2574~2575 | -43.824 | -41.981 | -43.873 | -43.906 | -37.29 | -13.00 |
| | | | | 2575~2576 | -44.858 | -43.835 | -44.702 | -44.899 | -38.53 | -13.00 |
| | 2565.0 | 50 | 0 | 2571~2572 | -30.323 | -18.573 | -29.243 | -25.829 | -17.30 | -13.00 |
| | | | | 2572~2573 | -31.249 | -19.379 | -30.484 | -26.476 | -18.12 | -13.00 |
| | | | | 2573~2574 | -32.282 | -20.227 | -31.497 | -27.691 | -19.03 | -13.00 |
| | | | | 2574~2575 | -33.725 | -21.623 | -32.821 | -29.287 | -20.45 | -13.00 |
| | | | | 2575~2576 | -35.188 | -23.347 | -34.248 | -31.187 | -22.17 | -13.00 |

Worst Plot of 64QAM, Low Channel



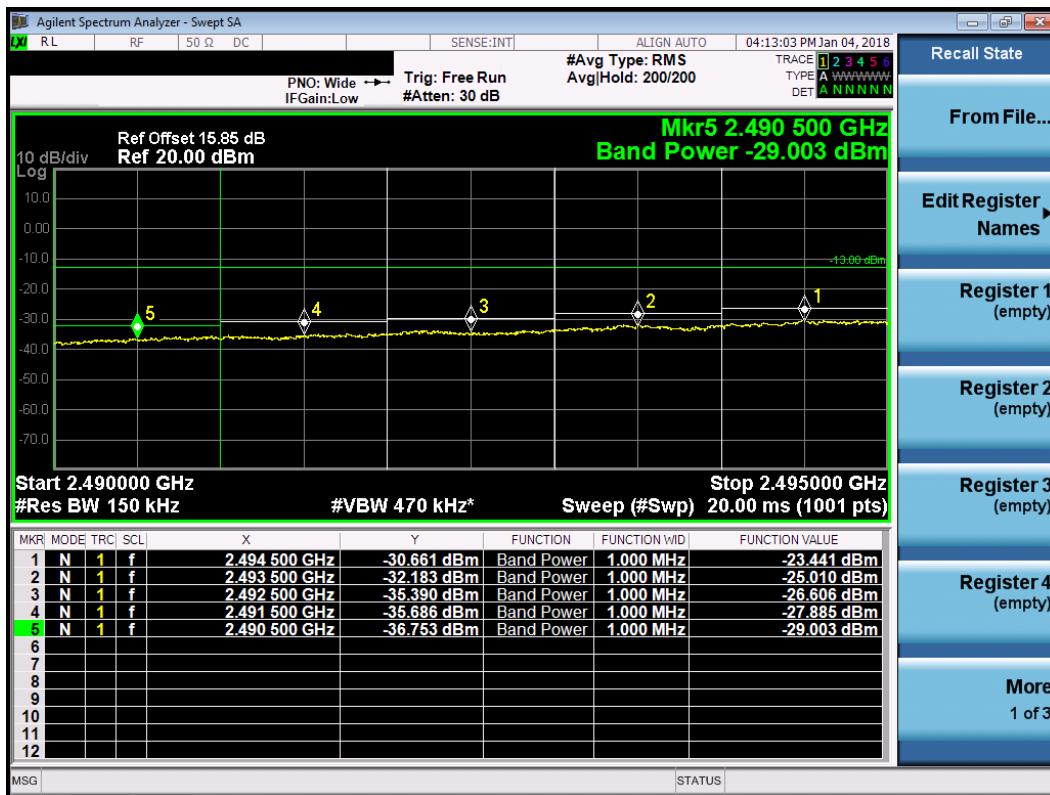
Worst Plot of 64QAM, High Channel



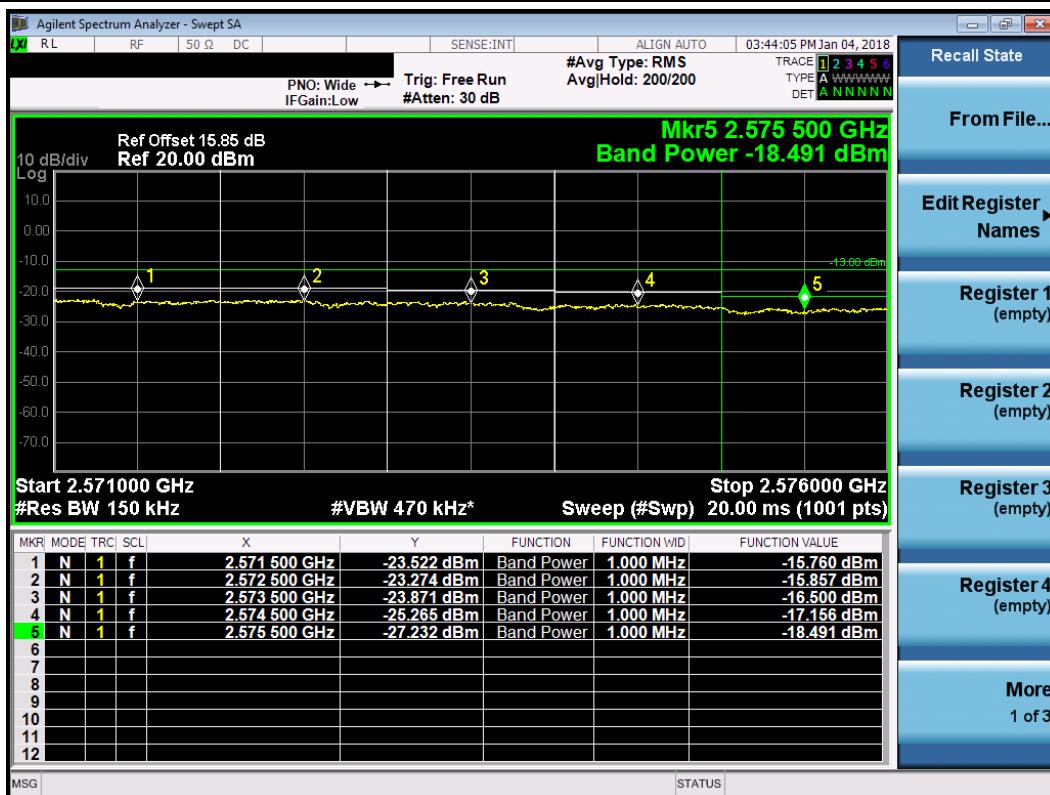
LTE Band 41, CB: 15MHz

| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|-------------|---------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| QPSK | 2503.5 | 1 | 0 | 2495~2494 | -32.878 | -34.971 | -33.547 | -33.919 | -27.74 | -13.00 |
| | | | | 2494~2493 | -37.324 | -38.800 | -37.968 | -37.924 | -31.95 | -13.00 |
| | | | | 2493~2492 | -40.309 | -41.438 | -40.815 | -40.691 | -34.77 | -13.00 |
| | | | | 2492~2491 | -42.521 | -43.406 | -42.900 | -42.725 | -36.86 | -13.00 |
| | | | | 2491~2490 | -37.565 | -39.586 | -37.568 | -40.281 | -32.56 | -13.00 |
| | 2503.5 | 75 | 0 | 2495~2494 | -27.114 | -27.543 | -23.441 | -23.678 | -19.02 | -13.00 |
| | | | | 2494~2493 | -28.241 | -28.769 | -25.010 | -25.128 | -20.43 | -13.00 |
| | | | | 2493~2492 | -29.782 | -30.248 | -26.606 | -26.888 | -22.06 | -13.00 |
| | | | | 2492~2491 | -31.229 | -31.662 | -27.885 | -28.339 | -23.44 | -13.00 |
| | | | | 2491~2490 | -32.947 | -33.036 | -29.003 | -29.351 | -24.66 | -13.00 |
| | 2562.5 | 1 | 74 | 2571~2572 | -30.138 | -32.705 | -31.683 | -32.904 | -25.69 | -13.00 |
| | | | | 2572~2573 | -34.437 | -36.684 | -36.221 | -36.975 | -29.94 | -13.00 |
| | | | | 2573~2574 | -37.629 | -40.039 | -39.659 | -40.134 | -33.22 | -13.00 |
| | | | | 2574~2575 | -40.371 | -42.609 | -42.329 | -42.388 | -35.80 | -13.00 |
| | | | | 2575~2576 | -36.642 | -38.429 | -40.918 | -37.147 | -31.98 | -13.00 |
| | 2562.5 | 75 | 0 | 2571~2572 | -15.760 | -20.439 | -21.733 | -22.642 | -13.21 | -13.00 |
| | | | | 2572~2573 | -15.857 | -20.896 | -22.002 | -23.111 | -13.44 | -13.00 |
| | | | | 2573~2574 | -16.500 | -21.812 | -22.816 | -23.874 | -14.17 | -13.00 |
| | | | | 2574~2575 | -17.156 | -22.683 | -23.424 | -24.439 | -14.84 | -13.00 |
| | | | | 2575~2576 | -18.491 | -23.673 | -23.366 | -25.126 | -15.83 | -13.00 |

Worst Plot of QPSK, Low Channel

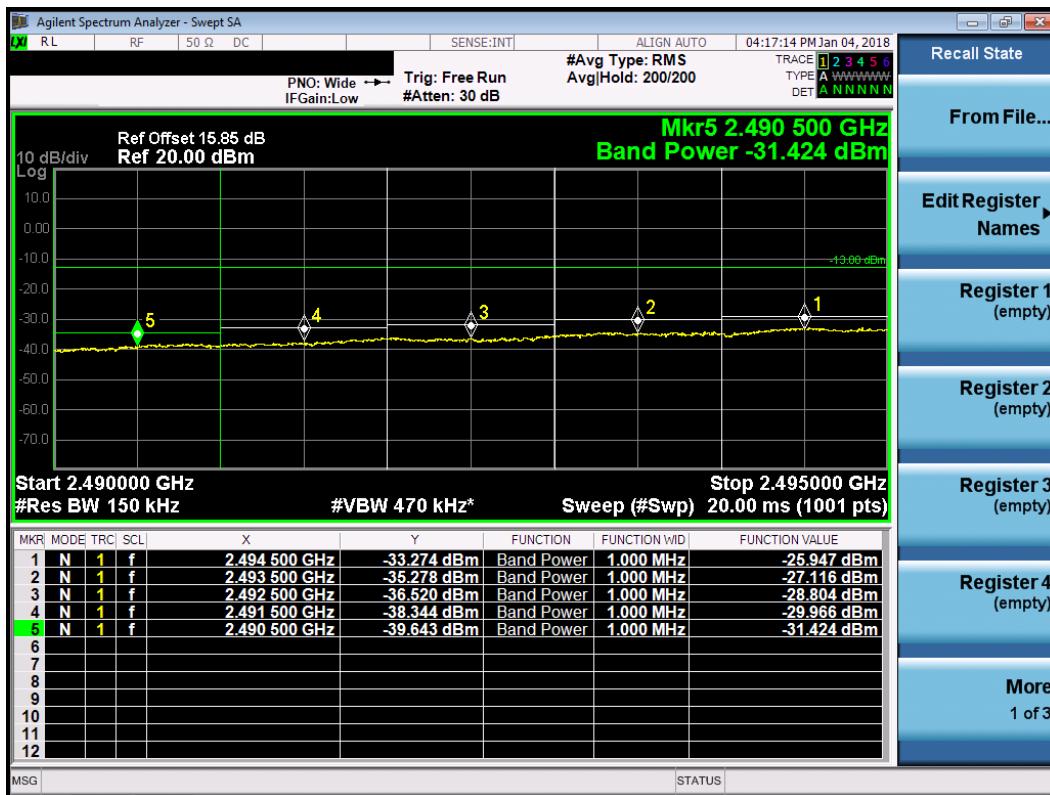


Worst Plot of QPSK, High Channel

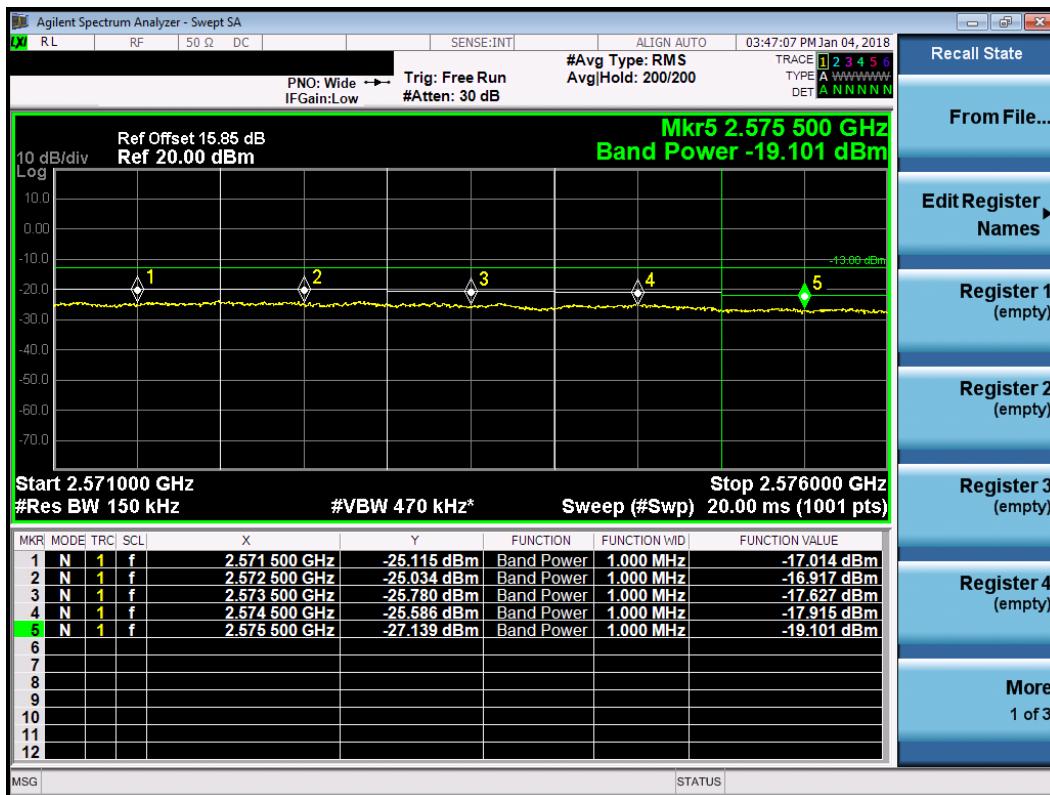


| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 16QAM | 2503.5 | 1 | 0 | 2495~2494 | -33.129 | -35.335 | -33.919 | -34.350 | -28.09 | -13.00 |
| | | | | 2494~2493 | -37.708 | -39.261 | -38.397 | -38.555 | -32.42 | -13.00 |
| | | | | 2493~2492 | -40.725 | -41.831 | -41.323 | -41.304 | -35.26 | -13.00 |
| | | | | 2492~2491 | -42.835 | -43.701 | -43.210 | -43.366 | -37.25 | -13.00 |
| | | | | 2491~2490 | -40.557 | -39.997 | -40.859 | -40.896 | -34.54 | -13.00 |
| | 2503.5 | 75 | 0 | 2495~2494 | -28.799 | -29.554 | -27.397 | -25.947 | -21.68 | -13.00 |
| | | | | 2494~2493 | -29.828 | -30.773 | -28.613 | -27.116 | -22.84 | -13.00 |
| | | | | 2493~2492 | -31.254 | -32.204 | -30.077 | -28.804 | -24.38 | -13.00 |
| | | | | 2492~2491 | -32.619 | -33.375 | -31.025 | -29.966 | -25.52 | -13.00 |
| | | | | 2491~2490 | -34.565 | -34.858 | -32.447 | -31.424 | -27.06 | -13.00 |
| | 2562.5 | 1 | 74 | 2571~2572 | -30.338 | -32.857 | -31.741 | -33.177 | -25.86 | -13.00 |
| | | | | 2572~2573 | -34.714 | -37.043 | -36.314 | -37.414 | -30.22 | -13.00 |
| | | | | 2573~2574 | -38.057 | -40.394 | -39.845 | -40.576 | -33.58 | -13.00 |
| | | | | 2574~2575 | -40.742 | -42.891 | -42.486 | -42.985 | -36.15 | -13.00 |
| | | | | 2575~2576 | -36.900 | -39.153 | -40.448 | -38.220 | -32.47 | -13.00 |
| | 2562.5 | 75 | 0 | 2571~2572 | -17.014 | -22.606 | -24.064 | -25.361 | -14.92 | -13.00 |
| | | | | 2572~2573 | -16.917 | -22.927 | -24.102 | -25.580 | -14.94 | -13.00 |
| | | | | 2573~2574 | -17.627 | -24.115 | -24.913 | -26.493 | -15.75 | -13.00 |
| | | | | 2574~2575 | -17.915 | -24.635 | -25.637 | -26.977 | -16.14 | -13.00 |
| | | | | 2575~2576 | -19.101 | -25.551 | -26.901 | -27.829 | -17.26 | -13.00 |

Worst Plot of 16QAM, Low Channel

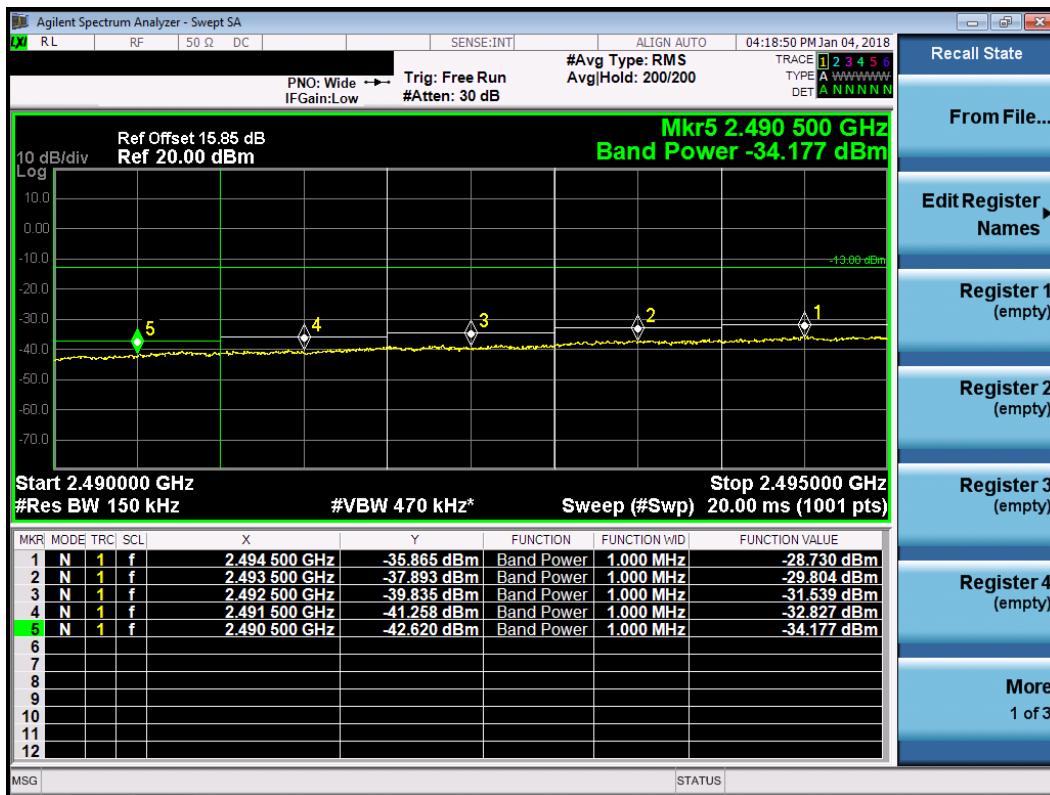


Worst Plot of 16QAM, High Channel

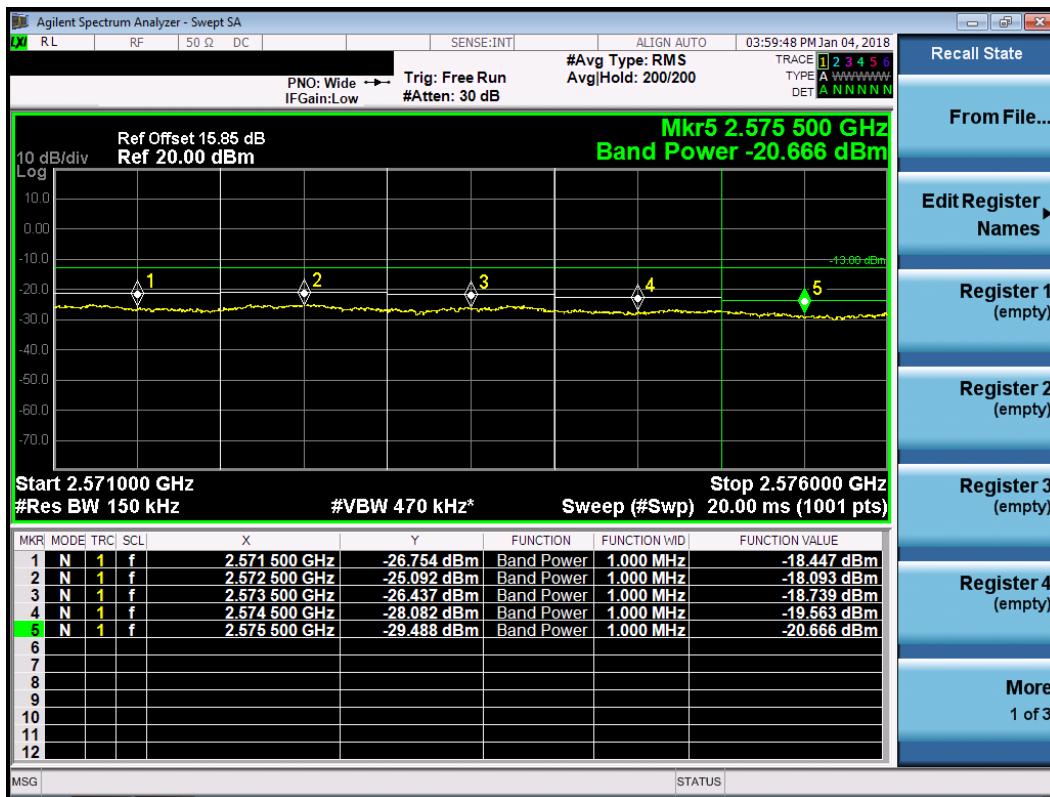


| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 64QAM | 2503.5 | 1 | 0 | 2495~2494 | -37.574 | -39.075 | -38.696 | -38.595 | -32.43 | -13.00 |
| | | | | 2494~2493 | -40.765 | -41.719 | -41.629 | -41.345 | -35.33 | -13.00 |
| | | | | 2493~2492 | -42.497 | -43.267 | -43.106 | -43.044 | -36.95 | -13.00 |
| | | | | 2492~2491 | -43.996 | -44.444 | -44.348 | -44.292 | -38.25 | -13.00 |
| | | | | 2491~2490 | -42.686 | -40.223 | -43.079 | -41.156 | -35.61 | -13.00 |
| | 2503.5 | 75 | 0 | 2495~2494 | -31.575 | -31.944 | -30.106 | -28.730 | -24.38 | -13.00 |
| | | | | 2494~2493 | -32.550 | -33.215 | -31.006 | -29.804 | -25.42 | -13.00 |
| | | | | 2493~2492 | -34.158 | -34.701 | -32.669 | -31.539 | -27.07 | -13.00 |
| | | | | 2492~2491 | -35.519 | -35.855 | -33.787 | -32.827 | -28.30 | -13.00 |
| | | | | 2491~2490 | -37.134 | -37.283 | -35.080 | -34.177 | -29.69 | -13.00 |
| | 2562.5 | 1 | 74 | 2571~2572 | -35.284 | -37.945 | -37.048 | -38.439 | -30.98 | -13.00 |
| | | | | 2572~2573 | -38.313 | -40.602 | -40.102 | -41.032 | -33.86 | -13.00 |
| | | | | 2573~2574 | -40.508 | -42.644 | -42.311 | -42.927 | -35.97 | -13.00 |
| | | | | 2574~2575 | -42.393 | -44.256 | -43.839 | -44.300 | -37.60 | -13.00 |
| | | | | 2575~2576 | -37.057 | -40.313 | -40.687 | -39.795 | -33.19 | -13.00 |
| | 2562.5 | 75 | 0 | 2571~2572 | -18.447 | -25.868 | -26.922 | -28.605 | -16.93 | -13.00 |
| | | | | 2572~2573 | -18.093 | -25.801 | -26.946 | -28.903 | -16.69 | -13.00 |
| | | | | 2573~2574 | -18.739 | -26.571 | -27.695 | -29.722 | -17.37 | -13.00 |
| | | | | 2574~2575 | -19.563 | -27.234 | -28.457 | -30.404 | -18.16 | -13.00 |
| | | | | 2575~2576 | -20.666 | -28.487 | -29.567 | -30.993 | -19.25 | -13.00 |

Worst Plot of 64QAM, Low Channel



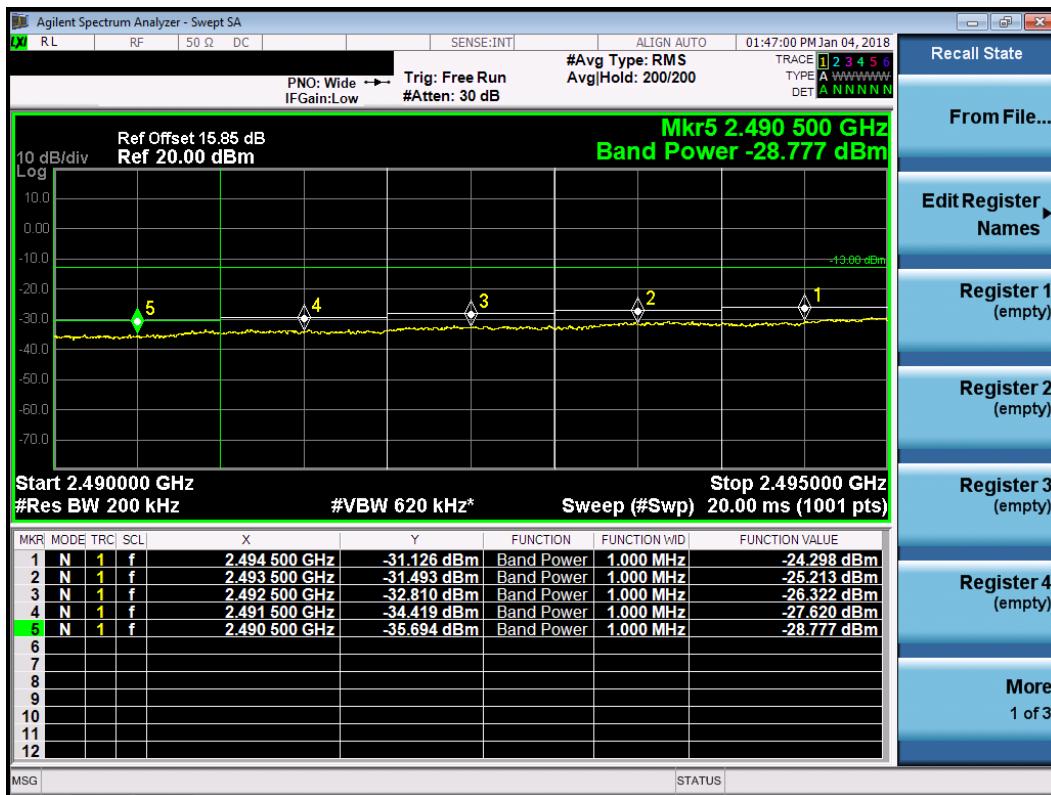
Worst Plot of 64QAM, High Channel



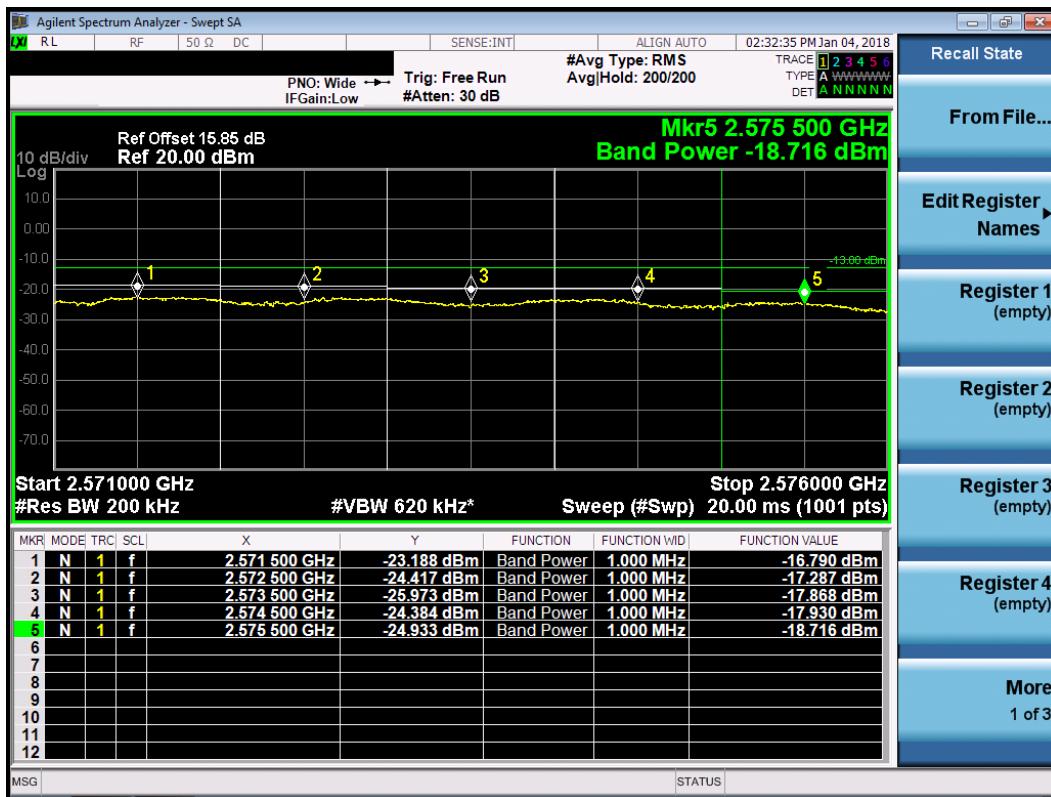
LTE Band 41, CB: 20MHz

| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|-------------|---------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| QPSK | 2506.0 | 1 | 0 | 2495~2494 | -35.091 | -37.489 | -35.377 | -36.393 | -29.97 | -13.00 |
| | | | | 2494~2493 | -37.776 | -39.692 | -38.198 | -38.833 | -32.55 | -13.00 |
| | | | | 2493~2492 | -40.712 | -42.330 | -41.039 | -41.503 | -35.33 | -13.00 |
| | | | | 2492~2491 | -42.539 | -43.814 | -42.834 | -43.133 | -37.03 | -13.00 |
| | | | | 2491~2490 | -43.929 | -44.768 | -44.009 | -44.211 | -38.20 | -13.00 |
| | 2506.0 | 100 | 0 | 2495~2494 | -26.500 | -29.363 | -24.298 | -25.450 | -20.02 | -13.00 |
| | | | | 2494~2493 | -27.527 | -29.988 | -25.213 | -26.342 | -20.91 | -13.00 |
| | | | | 2493~2492 | -28.831 | -30.805 | -26.322 | -27.265 | -21.97 | -13.00 |
| | | | | 2492~2491 | -30.247 | -31.834 | -27.620 | -28.354 | -23.20 | -13.00 |
| | | | | 2491~2490 | -31.676 | -33.277 | -28.777 | -29.515 | -24.44 | -13.00 |
| | 2560.0 | 1 | 99 | 2571~2572 | -31.239 | -34.507 | -32.672 | -34.918 | -27.06 | -13.00 |
| | | | | 2572~2573 | -33.971 | -37.304 | -35.894 | -37.748 | -29.95 | -13.00 |
| | | | | 2573~2574 | -37.150 | -40.511 | -39.306 | -40.872 | -33.18 | -13.00 |
| | | | | 2574~2575 | -39.497 | -42.596 | -41.739 | -42.768 | -35.42 | -13.00 |
| | | | | 2575~2576 | -41.389 | -44.182 | -43.354 | -44.171 | -37.09 | -13.00 |
| | 2560.0 | 100 | 0 | 2571~2572 | -16.790 | -19.507 | -20.684 | -21.638 | -13.23 | -13.00 |
| | | | | 2572~2573 | -17.287 | -20.271 | -21.455 | -22.193 | -13.84 | -13.00 |
| | | | | 2573~2574 | -17.868 | -21.040 | -22.355 | -22.696 | -14.51 | -13.00 |
| | | | | 2574~2575 | -17.930 | -21.227 | -22.743 | -22.937 | -14.68 | -13.00 |
| | | | | 2575~2576 | -18.716 | -22.286 | -23.464 | -23.578 | -15.49 | -13.00 |

Worst Plot of QPSK, Low Channel

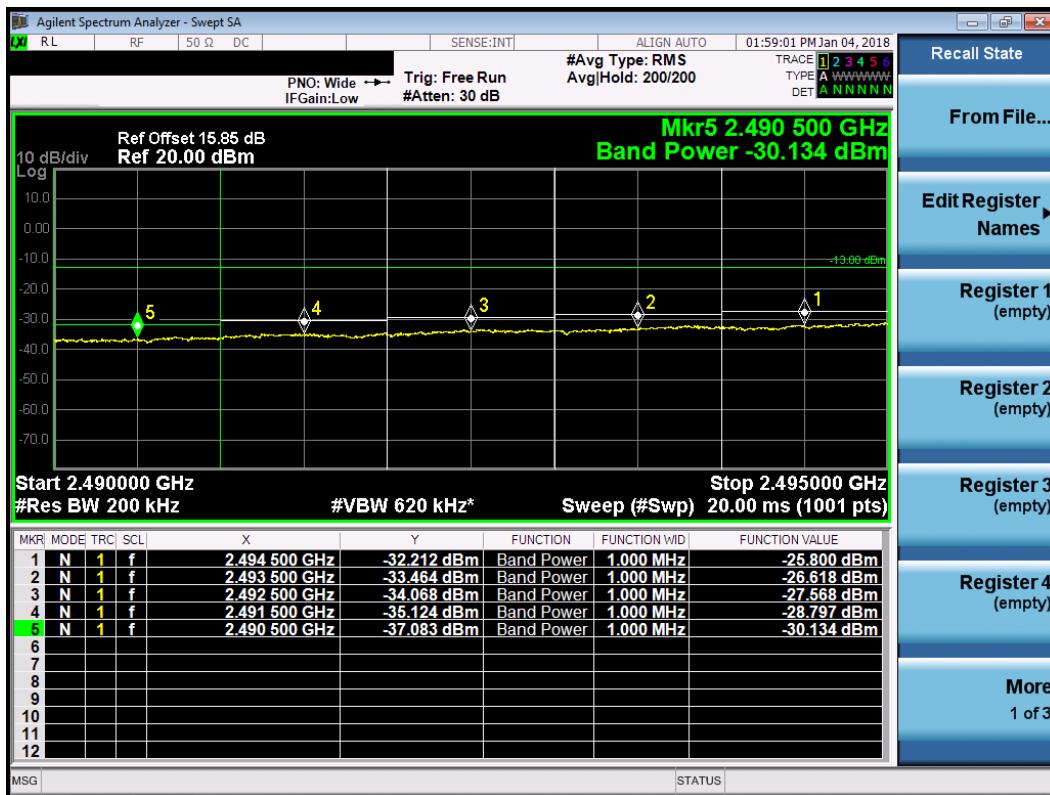


Worst Plot of QPSK, High Channel

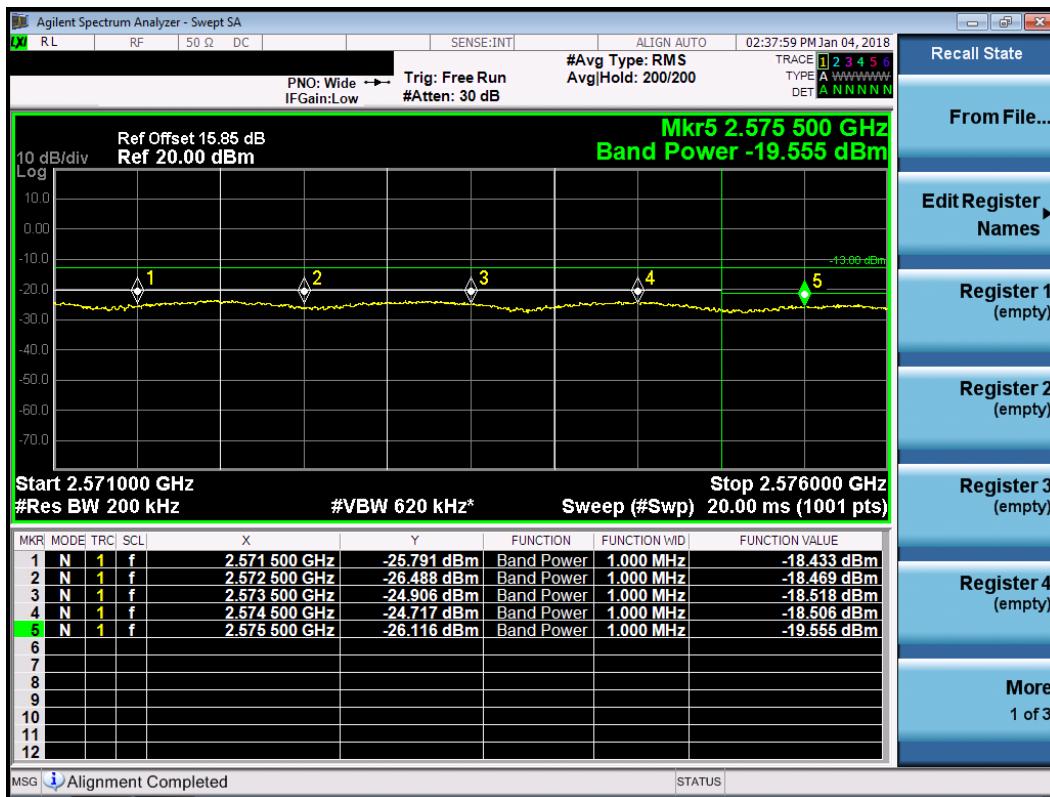


| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 16QAM | 2506.0 | 1 | 0 | 2495~2494 | -35.357 | -37.742 | -35.986 | -36.916 | -30.39 | -13.00 |
| | | | | 2494~2493 | -38.015 | -40.052 | -38.707 | -39.462 | -32.97 | -13.00 |
| | | | | 2493~2492 | -40.938 | -42.581 | -41.537 | -42.196 | -35.75 | -13.00 |
| | | | | 2492~2491 | -42.737 | -44.007 | -43.207 | -43.676 | -37.36 | -13.00 |
| | | | | 2491~2490 | -44.098 | -44.875 | -44.293 | -44.750 | -38.47 | -13.00 |
| | 2506.0 | 100 | 0 | 2495~2494 | -28.241 | -30.828 | -25.800 | -27.250 | -21.65 | -13.00 |
| | | | | 2494~2493 | -29.216 | -31.630 | -26.618 | -28.125 | -22.52 | -13.00 |
| | | | | 2493~2492 | -30.315 | -32.385 | -27.568 | -28.843 | -23.41 | -13.00 |
| | | | | 2492~2491 | -31.752 | -33.691 | -28.797 | -29.974 | -24.66 | -13.00 |
| | | | | 2491~2490 | -33.160 | -34.715 | -30.134 | -31.465 | -26.01 | -13.00 |
| 2560.0 | 2560.0 | 1 | 99 | 2571~2572 | -31.735 | -34.888 | -32.977 | -35.241 | -27.45 | -13.00 |
| | | | | 2572~2573 | -34.573 | -37.677 | -36.220 | -38.138 | -30.40 | -13.00 |
| | | | | 2573~2574 | -37.834 | -40.808 | -39.691 | -41.137 | -33.64 | -13.00 |
| | | | | 2574~2575 | -40.163 | -42.920 | -42.044 | -43.052 | -35.86 | -13.00 |
| | | | | 2575~2576 | -42.000 | -44.325 | -43.617 | -44.385 | -37.45 | -13.00 |
| | 2560.0 | 100 | 0 | 2571~2572 | -18.433 | -21.539 | -23.504 | -24.282 | -15.29 | -13.00 |
| | | | | 2572~2573 | -18.469 | -21.966 | -24.018 | -24.853 | -15.56 | -13.00 |
| | | | | 2573~2574 | -18.518 | -22.545 | -24.526 | -25.386 | -15.84 | -13.00 |
| | | | | 2574~2575 | -18.506 | -22.771 | -24.842 | -25.305 | -15.91 | -13.00 |
| | | | | 2575~2576 | -19.555 | -23.866 | -25.825 | -25.925 | -16.91 | -13.00 |

Worst Plot of 16QAM, Low Channel

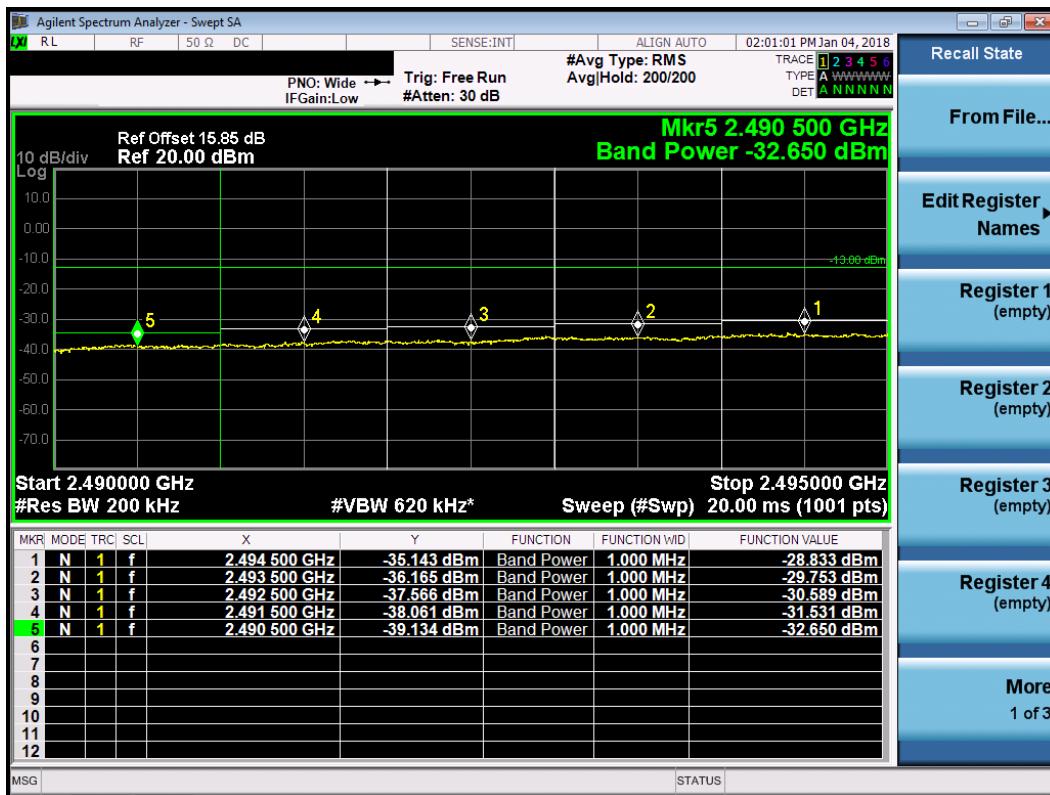


Worst Plot of 16QAM, High Channel

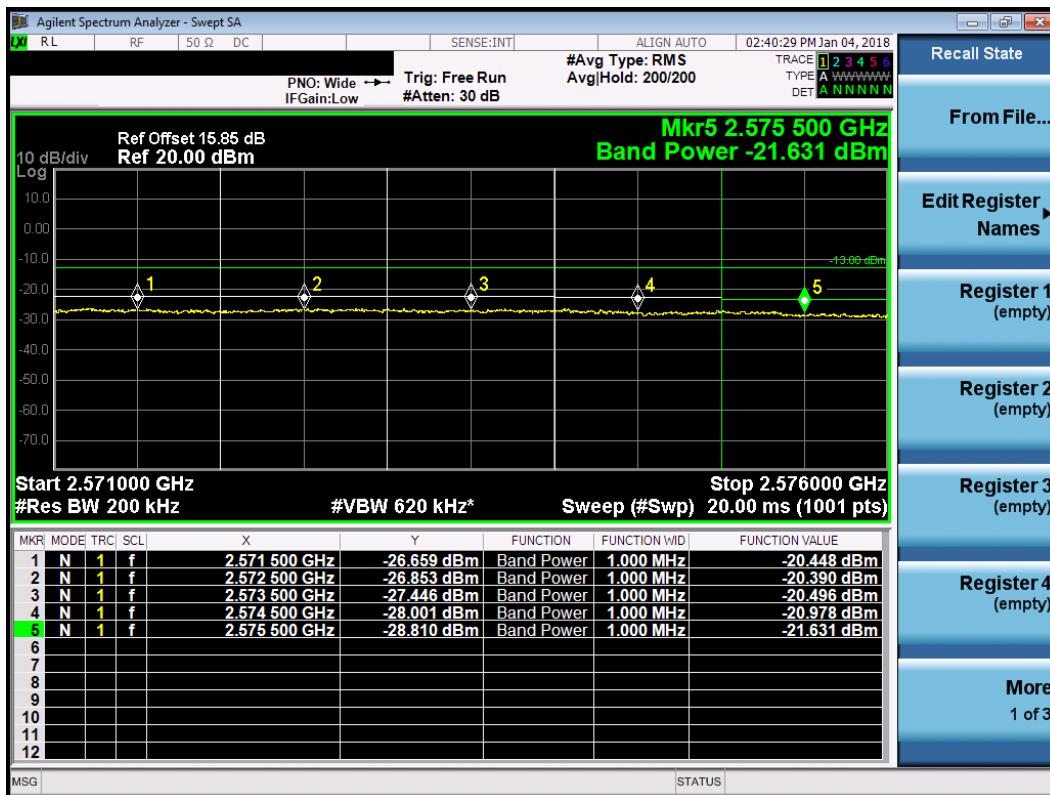


| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 64QAM | 2506.0 | 1 | 0 | 2495~2494 | -38.756 | -40.798 | -39.705 | -40.250 | -33.79 | -13.00 |
| | | | | 2494~2493 | -40.362 | -41.933 | -41.177 | -41.442 | -35.17 | -13.00 |
| | | | | 2493~2492 | -42.730 | -43.949 | -43.326 | -43.628 | -37.36 | -13.00 |
| | | | | 2492~2491 | -43.988 | -44.809 | -44.370 | -44.567 | -38.40 | -13.00 |
| | | | | 2491~2490 | -44.852 | -45.377 | -45.018 | -45.172 | -39.08 | -13.00 |
| | 2506.0 | 100 | 0 | 2495~2494 | -30.664 | -32.631 | -28.833 | -30.866 | -24.52 | -13.00 |
| | | | | 2494~2493 | -31.520 | -33.782 | -29.753 | -31.287 | -25.34 | -13.00 |
| | | | | 2493~2492 | -32.395 | -34.839 | -30.589 | -32.044 | -26.19 | -13.00 |
| | | | | 2492~2491 | -33.727 | -36.049 | -31.531 | -33.263 | -27.34 | -13.00 |
| | | | | 2491~2490 | -35.450 | -37.011 | -32.650 | -34.711 | -28.65 | -13.00 |
| | 2560.0 | 1 | 99 | 2571~2572 | -36.207 | -39.411 | -37.883 | -39.709 | -32.05 | -13.00 |
| | | | | 2572~2573 | -37.705 | -40.601 | -39.672 | -40.979 | -33.52 | -13.00 |
| | | | | 2573~2574 | -40.534 | -43.133 | -42.386 | -43.258 | -36.16 | -13.00 |
| | | | | 2574~2575 | -42.083 | -44.373 | -43.782 | -44.285 | -37.51 | -13.00 |
| | | | | 2575~2576 | -43.291 | -45.127 | -44.667 | -44.975 | -38.43 | -13.00 |
| | 2560.0 | 100 | 0 | 2571~2572 | -20.448 | -25.264 | -27.432 | -28.679 | -18.19 | -13.00 |
| | | | | 2572~2573 | -20.390 | -25.412 | -27.715 | -28.878 | -18.24 | -13.00 |
| | | | | 2573~2574 | -20.496 | -25.467 | -28.093 | -28.589 | -18.33 | -13.00 |
| | | | | 2574~2575 | -20.978 | -26.096 | -28.961 | -29.192 | -18.89 | -13.00 |
| | | | | 2575~2576 | -21.631 | -27.133 | -29.507 | -29.686 | -19.59 | -13.00 |

Worst Plot of 64QAM, Low Channel

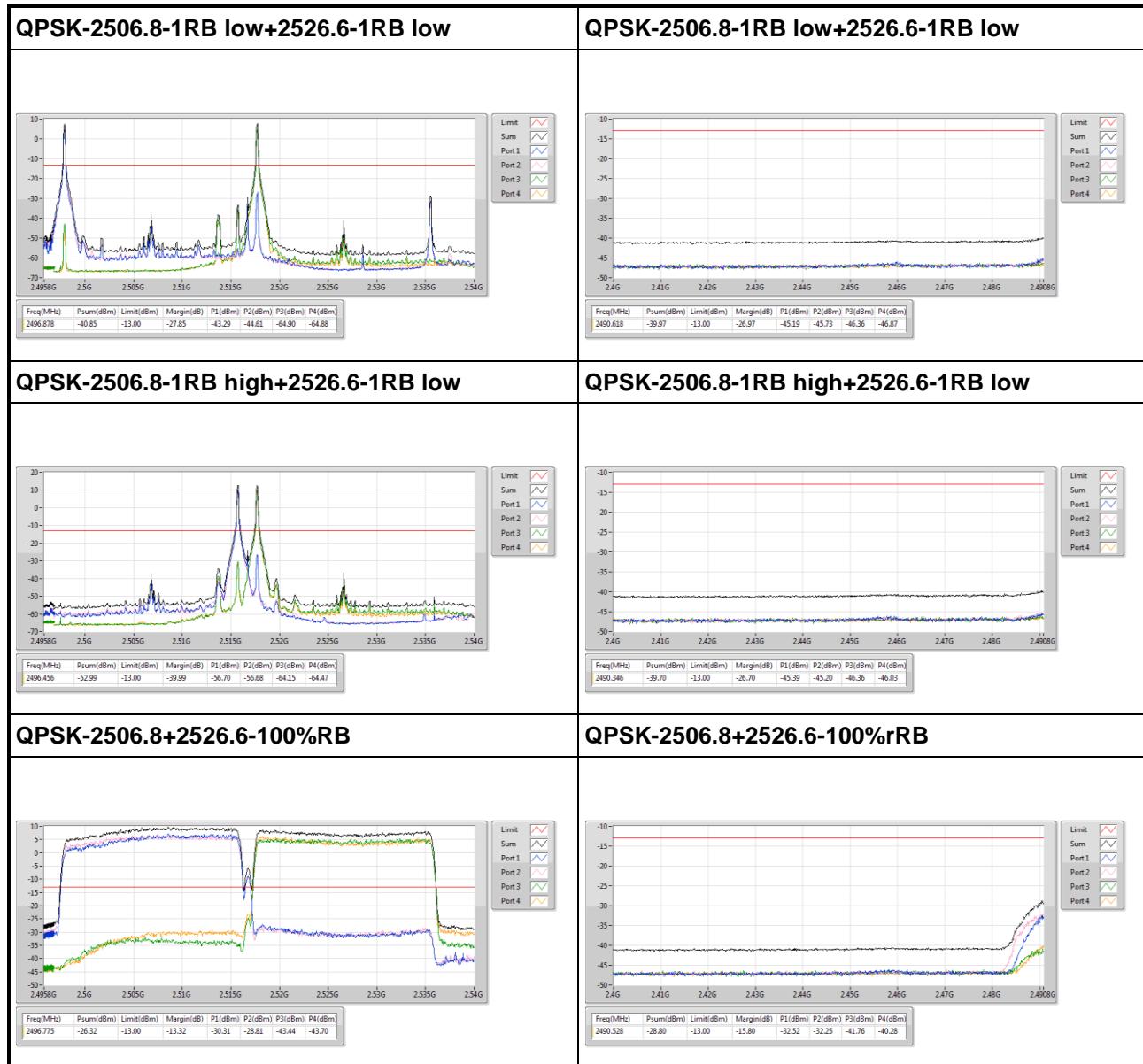


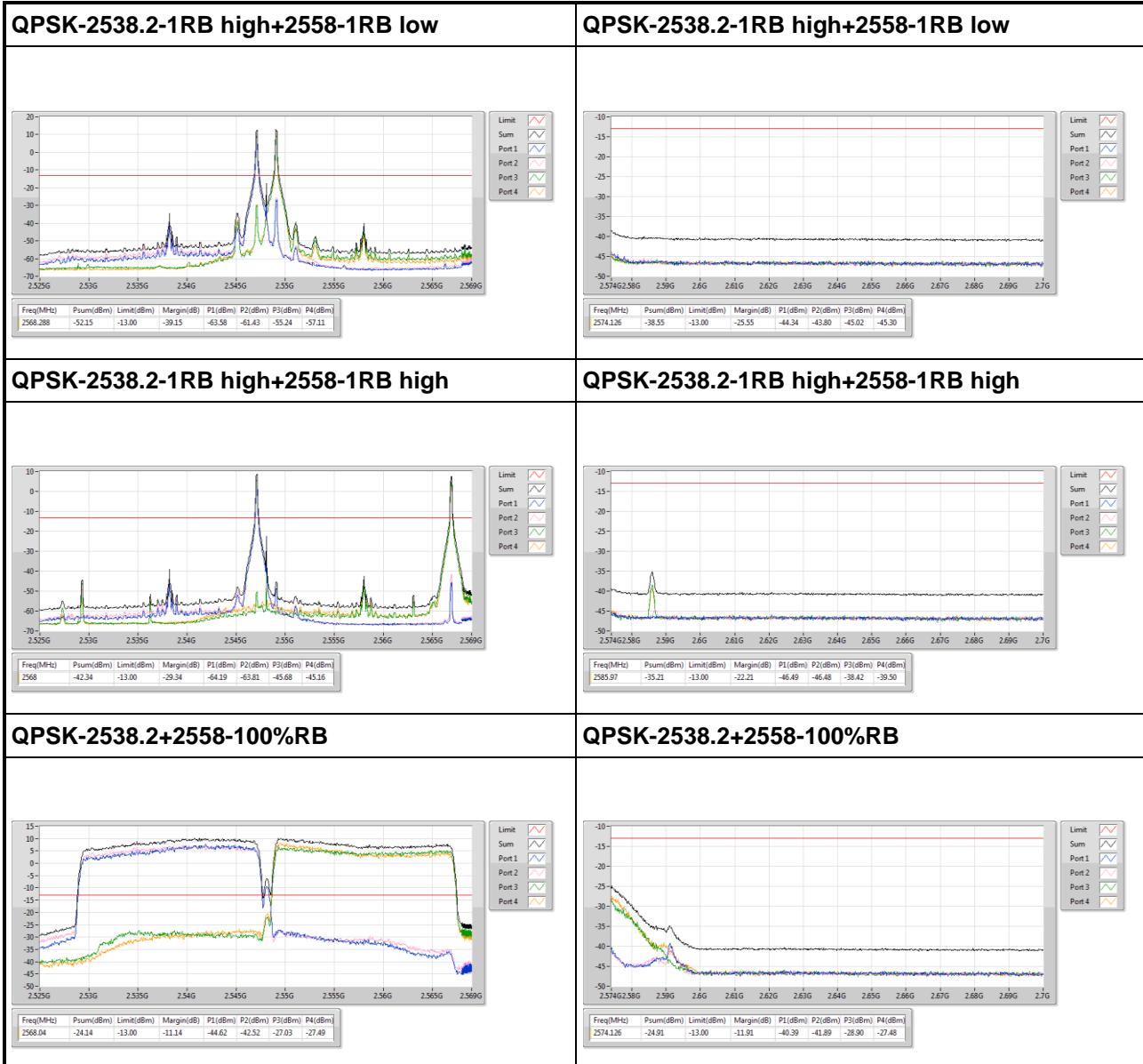
Worst Plot of 64QAM, High Channel

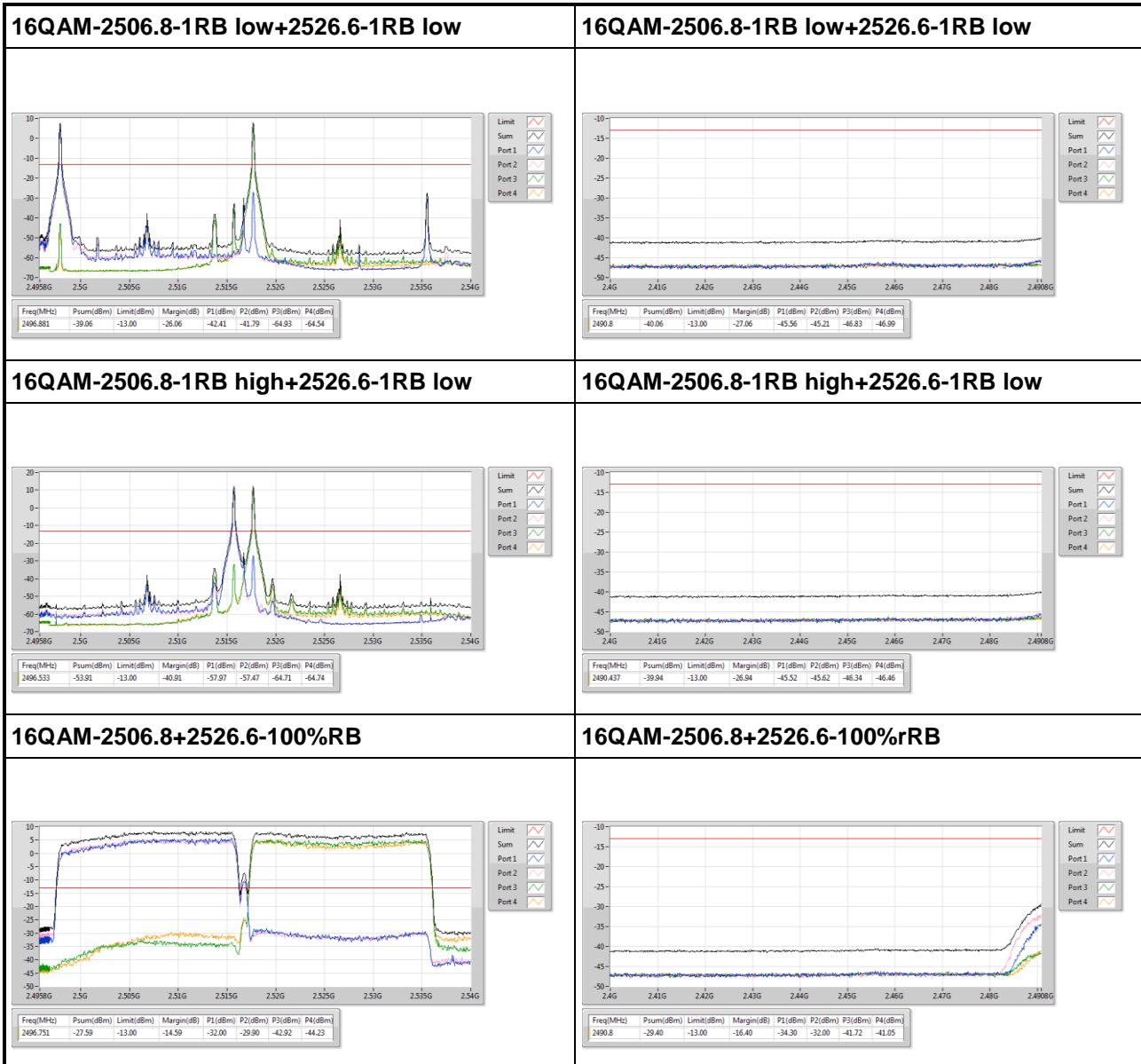


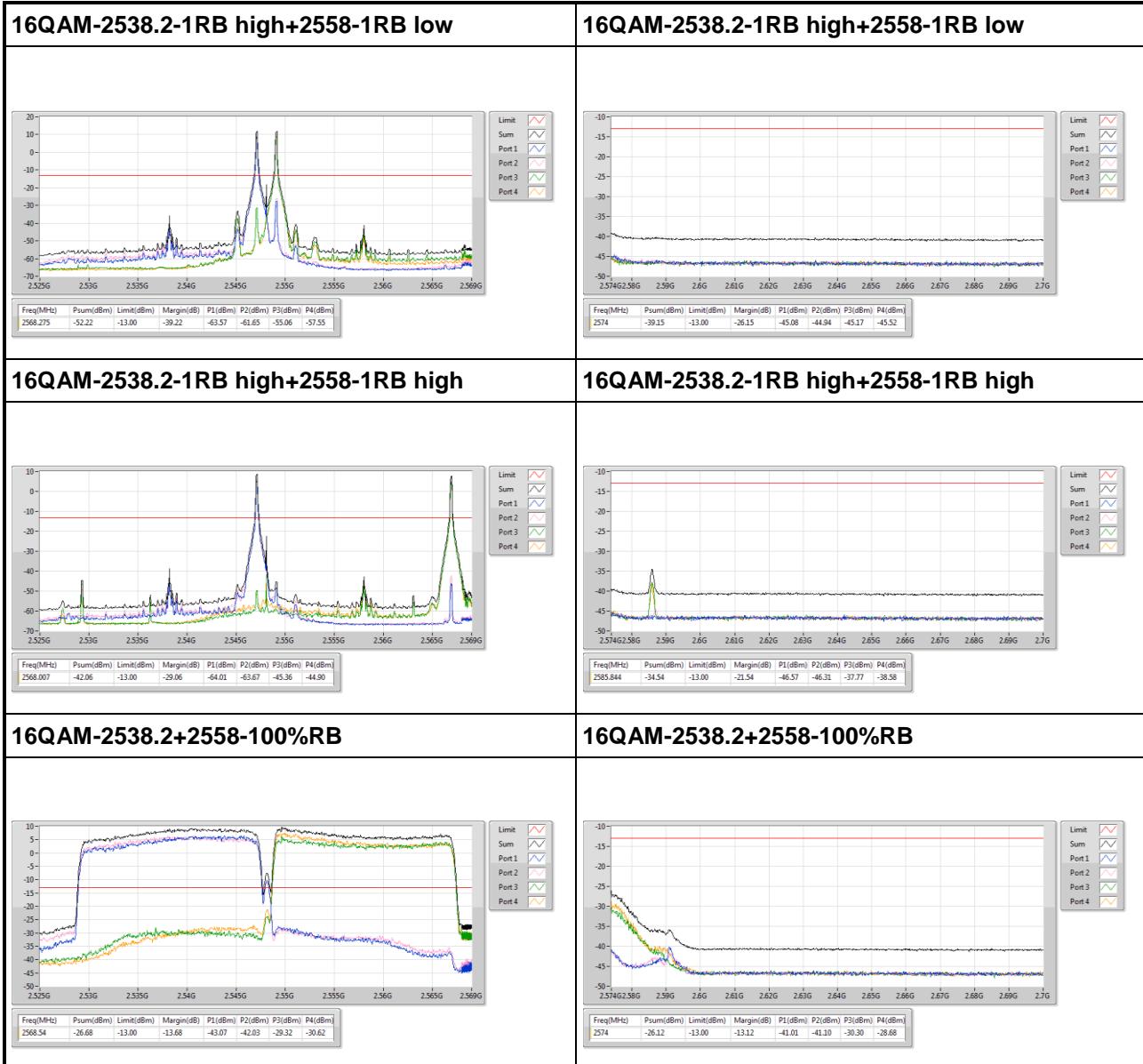
3.4.6 Test Result of Channel Edge_CA mode

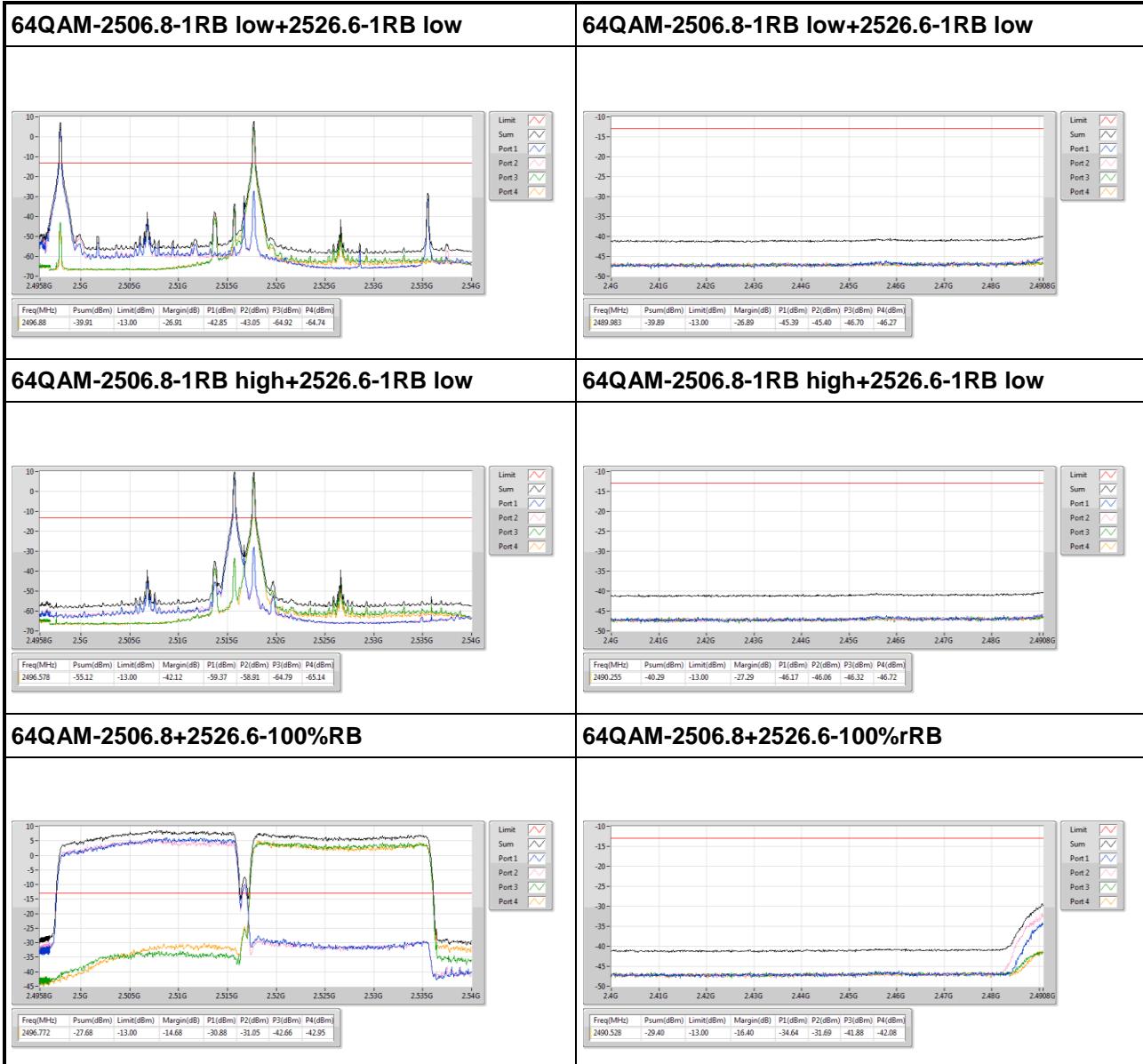
LTE Band 41, CB: 20MHz+20MHz

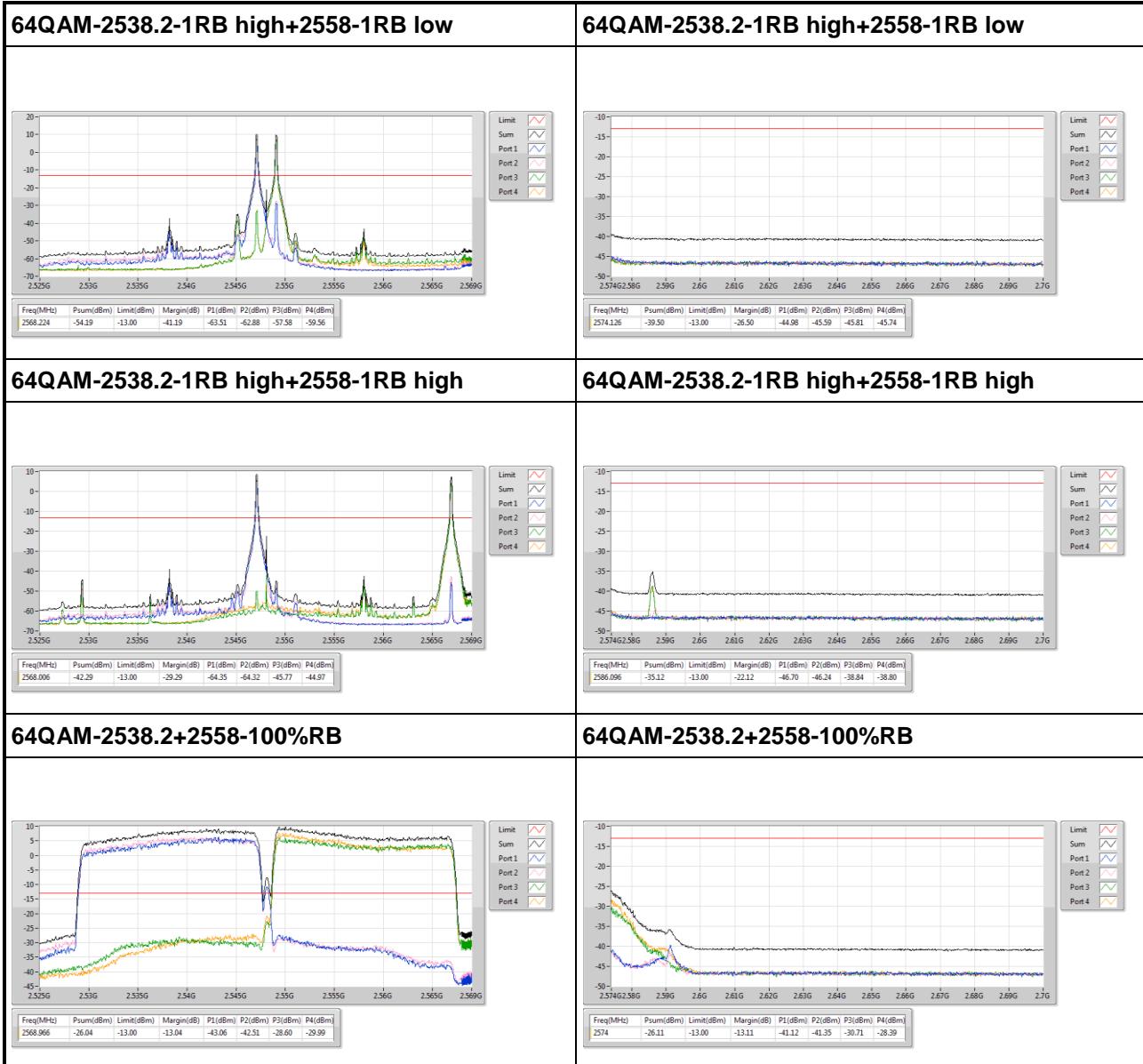












3.4.7 Measured Channel Edge Result_CA mode

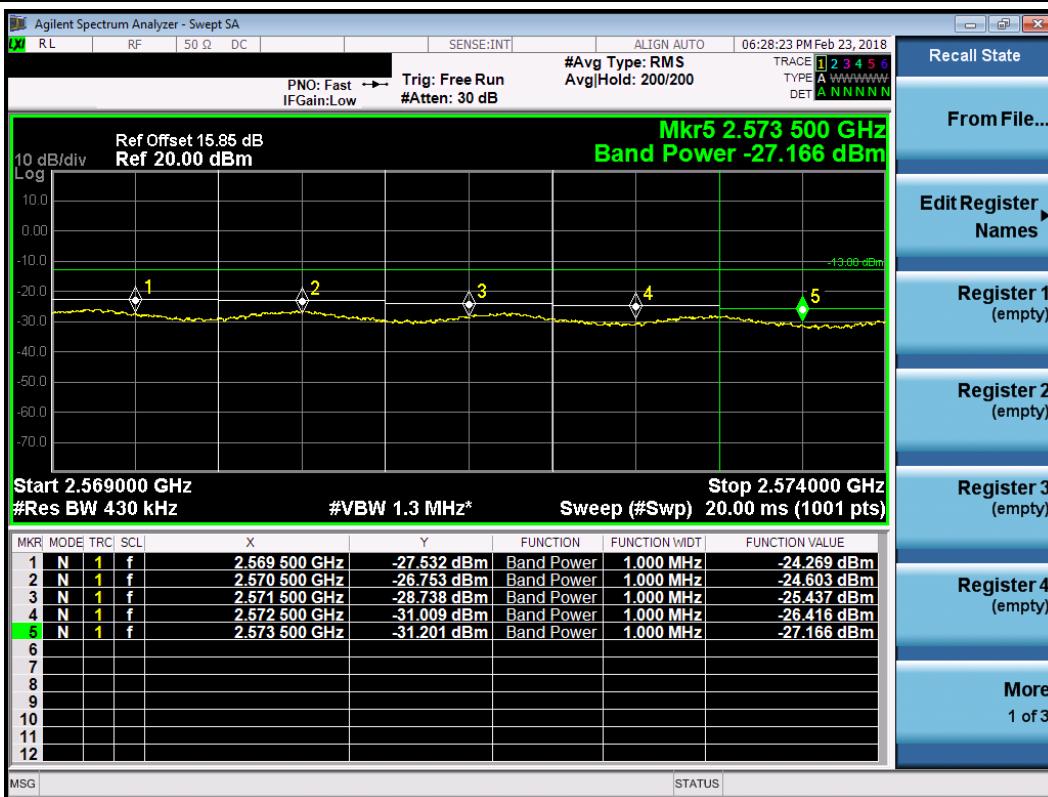
LTE Band 41, CB: 20MHz+20MHz, QPSK

| Measured Channel Edge Result | | | | | | | | | | | | |
|------------------------------|-----------------|--------|--------|--------|--------|---------------|------------|------------|------------|------------|-------------|-------------|
| PCC Freq. (MHz) | SCC Freq. (MHz) | PCC RB | | SCC RB | | Range (MHz) | ANT0 (dBm) | ANT1 (dBm) | ANT2 (dBm) | ANT3 (dBm) | Total (dBm) | Limit (dBm) |
| | | size | offset | size | offset | | | | | | | |
| 2506.8 | 2526.6 | 1 | 0 | 1 | 0 | 2495.8~2494.8 | -39.094 | -38.623 | -45.393 | -45.542 | -34.99 | -13 |
| | | | | | | 2494.8~2493.8 | -39.348 | -38.923 | -45.433 | -45.553 | -35.22 | -13 |
| | | | | | | 2493.8~2492.8 | -42.513 | -42.484 | -45.434 | -45.528 | -37.72 | -13 |
| | | | | | | 2492.8~2491.8 | -43.565 | -43.486 | -45.471 | -45.599 | -38.39 | -13 |
| | | | | | | 2491.8~2490.8 | -44.338 | -44.245 | -45.529 | -45.641 | -38.87 | -13 |
| 2506.8 | 2526.6 | 1 | 99 | 1 | 0 | 2495.8~2494.8 | -40.578 | -40.098 | -44.859 | -45.181 | -36.05 | -13 |
| | | | | | | 2494.8~2493.8 | -41.410 | -41.081 | -44.948 | -45.150 | -36.72 | -13 |
| | | | | | | 2493.8~2492.8 | -42.607 | -42.312 | -44.969 | -45.196 | -37.55 | -13 |
| | | | | | | 2492.8~2491.8 | -43.298 | -43.121 | -45.113 | -45.257 | -38.06 | -13 |
| | | | | | | 2491.8~2490.8 | -44.080 | -43.937 | -45.214 | -45.357 | -38.58 | -13 |
| 2506.8 | 2526.6 | 100 | 0 | 100 | 0 | 2495.8~2494.8 | -27.167 | -26.687 | -39.198 | -39.266 | -23.66 | -13 |
| | | | | | | 2494.8~2493.8 | -28.033 | -27.658 | -39.537 | -39.280 | -24.54 | -13 |
| | | | | | | 2493.8~2492.8 | -28.855 | -28.581 | -39.655 | -39.186 | -25.35 | -13 |
| | | | | | | 2492.8~2491.8 | -29.947 | -29.317 | -39.604 | -39.210 | -26.18 | -13 |
| | | | | | | 2491.8~2490.8 | -30.832 | -29.782 | -39.853 | -39.613 | -26.80 | -13 |
| 2538.2 | 2558.0 | 1 | 99 | 1 | 99 | 2569~2570 | -44.288 | -43.726 | -38.841 | -38.873 | -34.69 | -13 |
| | | | | | | 2570~2571 | -44.055 | -43.586 | -38.128 | -37.356 | -33.76 | -13 |
| | | | | | | 2571~2572 | -44.112 | -43.801 | -42.245 | -41.371 | -36.72 | -13 |
| | | | | | | 2572~2573 | -44.300 | -44.159 | -43.462 | -42.621 | -37.56 | -13 |
| | | | | | | 2573~2574 | -44.464 | -44.471 | -44.401 | -43.689 | -38.22 | -13 |
| 2538.2 | 2558.0 | 1 | 99 | 1 | 0 | 2569~2570 | -42.404 | -41.504 | -38.785 | -40.135 | -34.47 | -13 |
| | | | | | | 2570~2571 | -42.133 | -41.338 | -39.417 | -40.528 | -34.72 | -13 |
| | | | | | | 2571~2572 | -42.281 | -41.832 | -40.780 | -41.489 | -35.54 | -13 |
| | | | | | | 2572~2573 | -42.754 | -42.500 | -42.125 | -42.217 | -36.37 | -13 |
| | | | | | | 2573~2574 | -43.228 | -43.103 | -43.457 | -43.518 | -37.30 | -13 |
| 2538.2 | 2558.0 | 100 | 0 | 100 | 0 | 2569~2570 | -38.789 | -37.626 | -24.269 | -24.918 | -21.39 | -13 |
| | | | | | | 2570~2571 | -38.383 | -37.581 | -24.603 | -25.467 | -21.79 | -13 |
| | | | | | | 2571~2572 | -38.077 | -37.864 | -25.437 | -25.659 | -22.29 | -13 |
| | | | | | | 2572~2573 | -38.137 | -38.231 | -26.416 | -25.598 | -22.72 | -13 |
| | | | | | | 2573~2574 | -39.293 | -39.571 | -27.166 | -25.769 | -23.19 | -13 |

Worst Plot of QPSK, Low Channel



Worst Plot of QPSK, High Channel



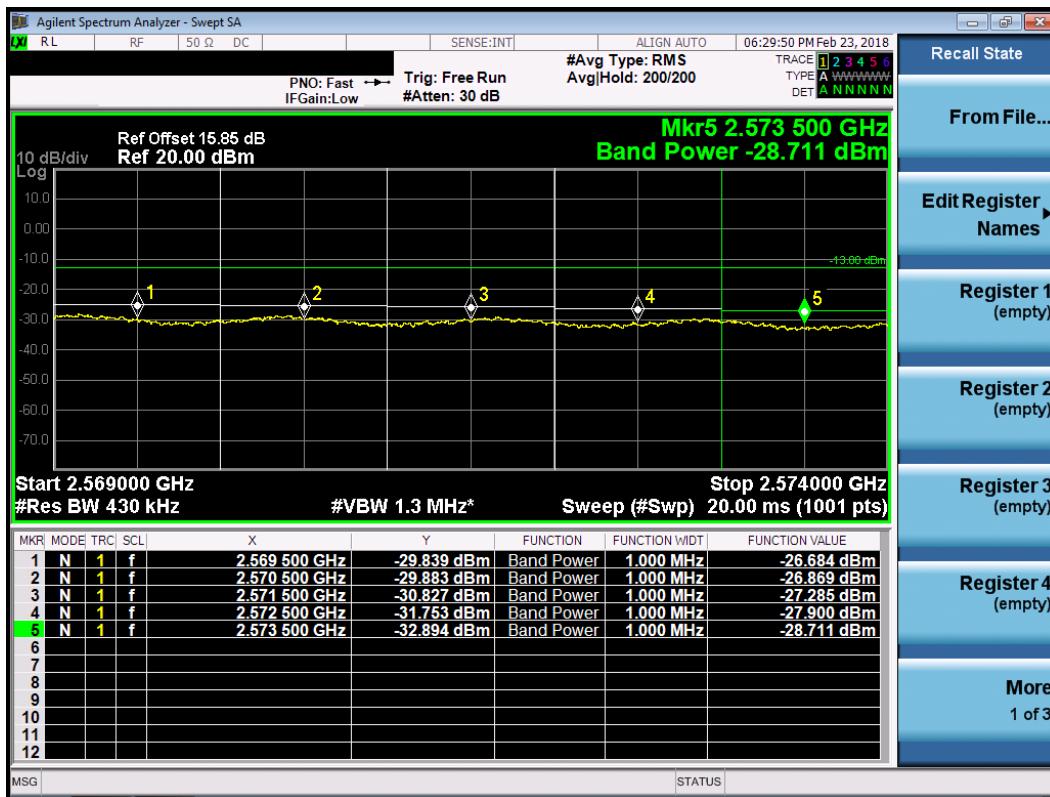
LTE Band 41, CB: 20MHz+20MHz, 16QAM

| Measured Channel Edge Result | | | | | | | | | | | | |
|------------------------------|--------------------|--------|--------|--------|--------|----------------|---------------|---------------|---------------|---------------|----------------|----------------|
| PCC Freq. (MHz) | SCC Freq. (MHz) | PCC RB | | SCC RB | | Range (MHz) | ANT0 (dBm) | ANT1 (dBm) | ANT2 (dBm) | ANT3 (dBm) | Total (dBm) | Limit (dBm) |
| | | size | offset | size | offset | | | | | | | |
| 2506.8 | 2526.6 | 1 | 0 | 1 | 0 | 2495.8~2494.8 | -39.074 | -38.724 | -45.338 | -45.578 | -35.02 | -13 |
| | | | | | | 2494.8~2493.8 | -39.221 | -39.044 | -45.352 | -45.558 | -35.21 | -13 |
| | | | | | | 2493.8~2492.8 | -42.424 | -42.315 | -45.410 | -45.525 | -37.63 | -13 |
| | | | | | | 2492.8~2491.8 | -43.532 | -43.480 | -45.476 | -45.557 | -38.38 | -13 |
| | | | | | | 2491.8~2490.8 | -44.319 | -44.250 | -45.482 | -45.565 | -38.84 | -13 |
| 2506.8 | 2526.6 | 1 | 99 | 1 | 0 | 2495.8~2494.8 | -41.088 | -40.757 | -44.965 | -45.270 | -36.51 | -13 |
| | | | | | | 2494.8~2493.8 | -41.864 | -41.666 | -45.010 | -45.251 | -37.11 | -13 |
| | | | | | | 2493.8~2492.8 | -42.807 | -42.703 | -45.049 | -45.267 | -37.77 | -13 |
| | | | | | | 2492.8~2491.8 | -43.486 | -43.321 | -45.150 | -45.322 | -38.20 | -13 |
| | | | | | | 2491.8~2490.8 | -44.259 | -44.184 | -45.238 | -45.348 | -38.70 | -13 |
| 2506.8 | 2526.6 | 100 | 0 | 100 | 0 | 2495.8~2494.8 | -29.663 | -27.804 | -38.829 | -39.324 | -25.25 | -13 |
| | | | | | | 2494.8~2493.8 | -30.574 | -28.753 | -39.361 | -39.210 | -26.12 | -13 |
| | | | | | | 2493.8~2492.8 | -31.318 | -29.659 | -39.464 | -39.056 | -26.87 | -13 |
| | | | | | | 2492.8~2491.8 | -31.936 | -30.241 | -39.778 | -39.365 | -27.43 | -13 |
| | | | | | | 2491.8~2490.8 | -32.570 | -30.577 | -39.886 | -39.694 | -27.85 | -13 |
| 2538.2 | 2558.0 | 1 | 99 | 1 | 99 | 2569~2570 | -44.240 | -43.724 | -39.394 | -39.316 | -35.06 | -13 |
| | | | | | | 2570~2571 | -44.023 | -43.567 | -38.344 | -37.571 | -33.93 | -13 |
| | | | | | | 2571~2572 | -44.009 | -43.756 | -42.213 | -41.472 | -36.71 | -13 |
| | | | | | | 2572~2573 | -44.236 | -44.150 | -43.534 | -42.638 | -37.57 | -13 |
| | | | | | | 2573~2574 | -44.449 | -44.445 | -44.445 | -43.751 | -38.24 | -13 |
| 2538.2 | 2558.0 | 1 | 99 | 1 | 0 | 2569~2570 | -42.860 | -41.902 | -39.530 | -40.902 | -35.10 | -13 |
| | | | | | | 2570~2571 | -42.575 | -41.861 | -40.113 | -41.143 | -35.31 | -13 |
| | | | | | | 2571~2572 | -42.752 | -42.151 | -41.482 | -42.046 | -36.06 | -13 |
| | | | | | | 2572~2573 | -43.033 | -42.808 | -42.544 | -42.653 | -36.74 | -13 |
| | | | | | | 2573~2574 | -43.458 | -43.309 | -43.954 | -43.876 | -37.62 | -13 |
| 2538.2 | 2558.0 | 100 | 0 | 100 | 0 | 2569~2570 | -38.617 | -37.668 | -26.684 | -27.264 | -23.63 | -13 |
| | | | | | | 2570~2571 | -38.372 | -37.663 | -26.869 | -27.157 | -23.67 | -13 |
| | | | | | | 2571~2572 | -38.327 | -37.752 | -27.285 | -27.086 | -23.83 | -13 |
| | | | | | | 2572~2573 | -38.536 | -38.398 | -27.900 | -27.160 | -24.17 | -13 |
| | | | | | | 2573~2574 | -39.279 | -39.741 | -28.711 | -27.199 | -24.59 | -13 |

Worst Plot of 16QAM, Low Channel



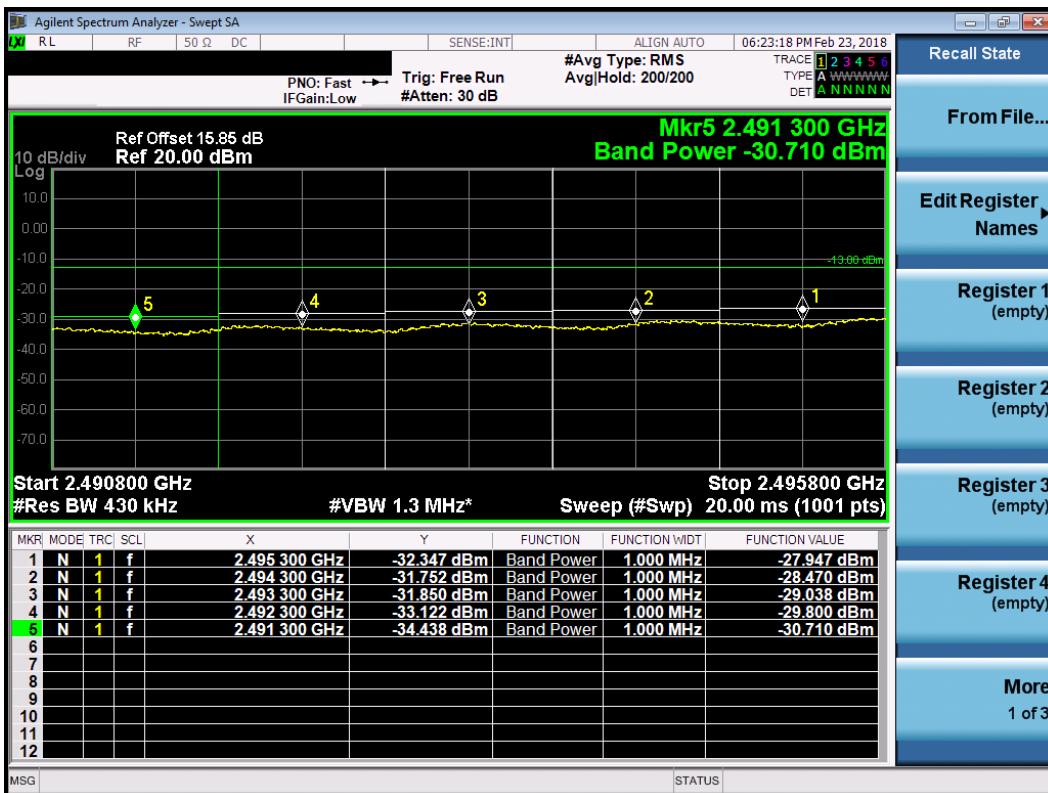
Worst Plot of 16QAM, High Channel



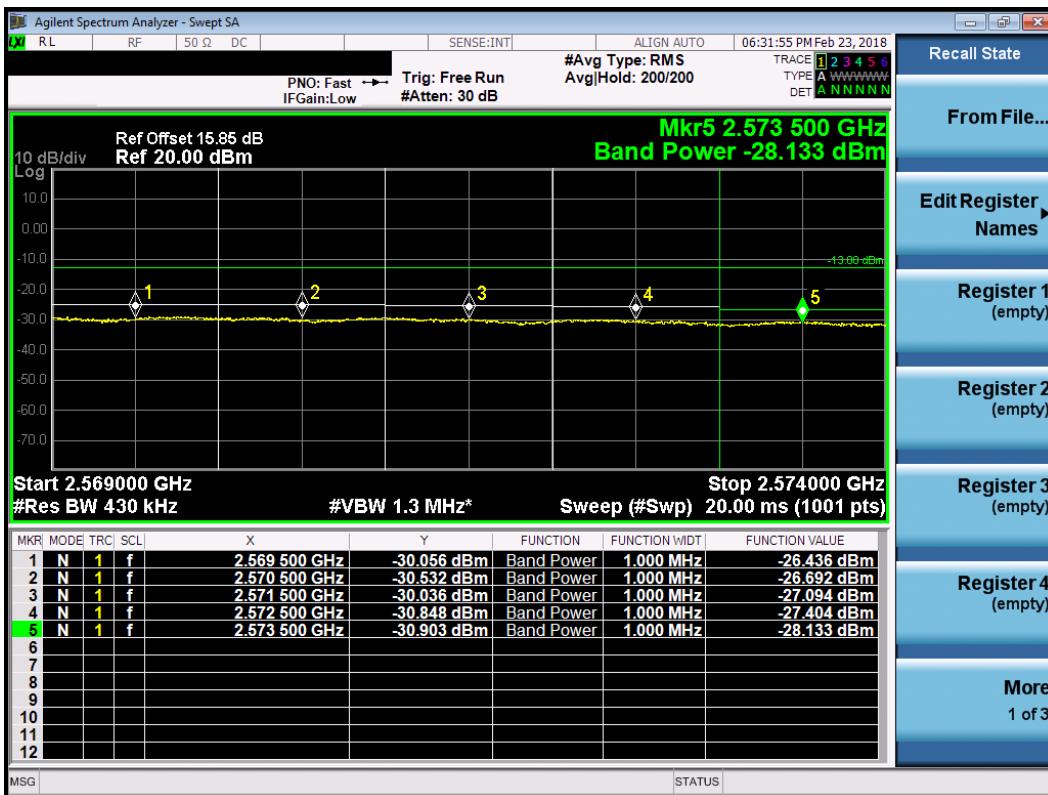
LTE Band 41, CB: 20MHz+20MHz, 64QAM

| Measured Channel Edge Result | | | | | | | | | | | | |
|------------------------------|--------------------|--------|--------|--------|--------|----------------|---------------|---------------|---------------|---------------|----------------|----------------|
| PCC Freq. (MHz) | SCC Freq. (MHz) | PCC RB | | SCC RB | | Range (MHz) | ANT0 (dBm) | ANT1 (dBm) | ANT2 (dBm) | ANT3 (dBm) | Total (dBm) | Limit (dBm) |
| | | size | offset | size | offset | | | | | | | |
| 2506.8 | 2526.6 | 1 | 0 | 1 | 0 | 2495.8~2494.8 | -39.108 | -38.661 | -45.403 | -45.513 | -35.01 | -13 |
| | | | | | | 2494.8~2493.8 | -39.214 | -38.976 | -45.359 | -45.490 | -35.17 | -13 |
| | | | | | | 2493.8~2492.8 | -42.435 | -42.340 | -45.380 | -45.498 | -37.63 | -13 |
| | | | | | | 2492.8~2491.8 | -43.569 | -43.504 | -45.443 | -45.565 | -38.39 | -13 |
| | | | | | | 2491.8~2490.8 | -44.265 | -44.241 | -45.530 | -45.575 | -38.83 | -13 |
| 2506.8 | 2526.6 | 1 | 99 | 1 | 0 | 2495.8~2494.8 | -42.261 | -42.091 | -45.249 | -45.384 | -37.45 | -13 |
| | | | | | | 2494.8~2493.8 | -42.893 | -42.663 | -45.220 | -45.428 | -37.85 | -13 |
| | | | | | | 2493.8~2492.8 | -43.682 | -43.571 | -45.293 | -45.458 | -38.39 | -13 |
| | | | | | | 2492.8~2491.8 | -44.162 | -44.063 | -45.346 | -45.502 | -38.70 | -13 |
| | | | | | | 2491.8~2490.8 | -44.741 | -44.660 | -45.412 | -45.499 | -39.04 | -13 |
| 2506.8 | 2526.6 | 100 | 0 | 100 | 0 | 2495.8~2494.8 | -29.815 | -27.947 | -38.702 | -38.708 | -25.35 | -13 |
| | | | | | | 2494.8~2493.8 | -30.440 | -28.470 | -39.064 | -39.117 | -25.90 | -13 |
| | | | | | | 2493.8~2492.8 | -30.831 | -29.038 | -39.302 | -39.274 | -26.36 | -13 |
| | | | | | | 2492.8~2491.8 | -31.477 | -29.800 | -39.732 | -39.419 | -27.03 | -13 |
| | | | | | | 2491.8~2490.8 | -32.410 | -30.710 | -40.046 | -39.415 | -27.86 | -13 |
| 2538.2 | 2558.0 | 1 | 99 | 1 | 99 | 2569~2570 | -44.230 | -43.712 | -39.660 | -39.497 | -35.22 | -13 |
| | | | | | | 2570~2571 | -44.003 | -43.613 | -38.433 | -37.730 | -34.03 | -13 |
| | | | | | | 2571~2572 | -44.137 | -43.883 | -42.117 | -41.508 | -36.75 | -13 |
| | | | | | | 2572~2573 | -44.219 | -44.110 | -43.539 | -42.771 | -37.60 | -13 |
| | | | | | | 2573~2574 | -44.413 | -44.472 | -44.376 | -43.725 | -38.22 | -13 |
| 2538.2 | 2558.0 | 1 | 99 | 1 | 0 | 2569~2570 | -43.794 | -42.916 | -40.853 | -42.337 | -36.32 | -13 |
| | | | | | | 2570~2571 | -43.508 | -42.806 | -41.343 | -42.504 | -36.45 | -13 |
| | | | | | | 2571~2572 | -43.586 | -43.034 | -42.499 | -43.206 | -37.04 | -13 |
| | | | | | | 2572~2573 | -43.821 | -43.499 | -43.302 | -43.689 | -37.55 | -13 |
| | | | | | | 2573~2574 | -44.092 | -43.915 | -44.401 | -44.501 | -38.20 | -13 |
| 2538.2 | 2558.0 | 100 | 0 | 100 | 0 | 2569~2570 | -38.677 | -37.595 | -26.436 | -27.062 | -23.42 | -13 |
| | | | | | | 2570~2571 | -38.371 | -37.540 | -26.692 | -27.052 | -23.53 | -13 |
| | | | | | | 2571~2572 | -38.215 | -37.813 | -27.094 | -27.021 | -23.71 | -13 |
| | | | | | | 2572~2573 | -38.429 | -38.403 | -27.404 | -26.912 | -23.83 | -13 |
| | | | | | | 2573~2574 | -39.150 | -39.567 | -28.133 | -26.813 | -24.14 | -13 |

Worst Plot of 64QAM, Low Channel



Worst Plot of 64QAM, High Channel



3.5 Emission and Occupied Bandwidth

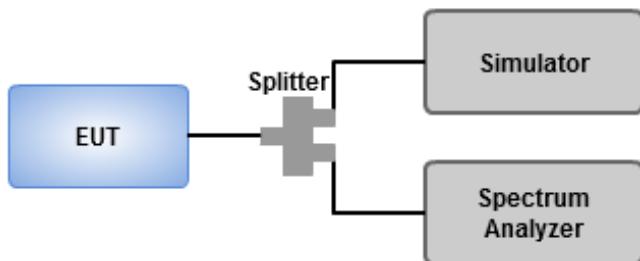
3.5.1 Test Procedures

1. Set as below setting for LTE mode

| Bandwidth (MHz) | RBW (kHz) | VBW (KHz) | Detector | Sweep time |
|-----------------|-----------|-----------|----------|------------|
| 5 | 56 | 180 | Peak | Auto |
| 10 | 100 | 300 | Peak | Auto |
| 15 | 150 | 470 | Peak | Auto |
| 20 | 200 | 620 | Peak | Auto |

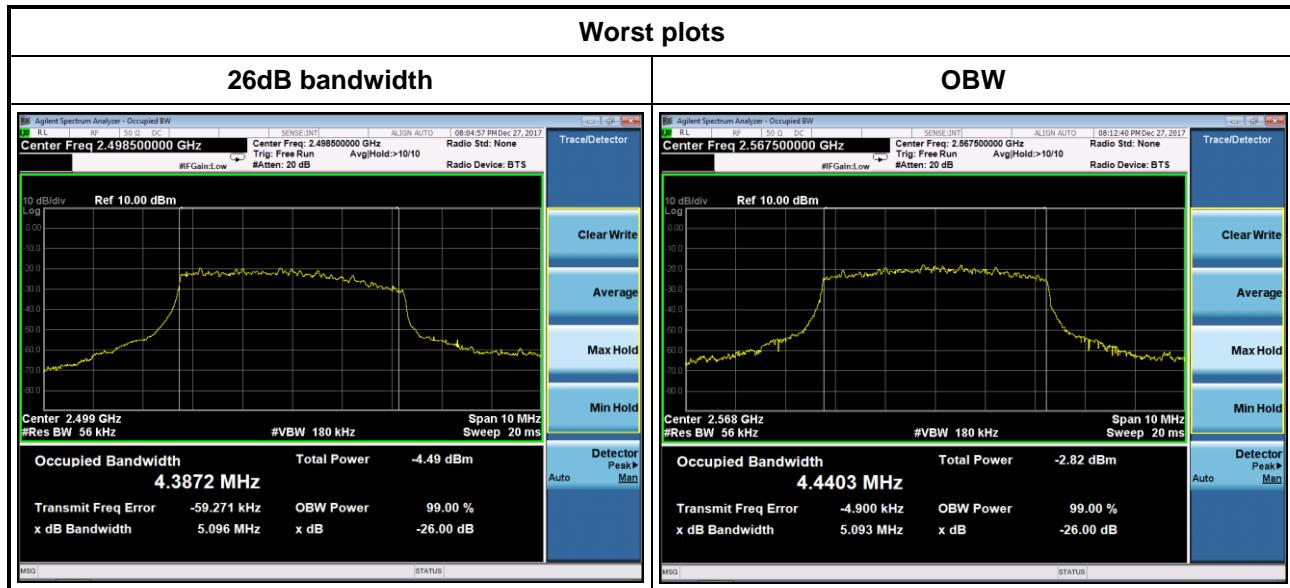
2. Set Detector = Peak, Trace mode = max hold, Sweep = auto couple, Allow the trace to stabilize.
3. Using 26dB and occupied bandwidth measurement function of spectrum analyzer to measure bandwidth.

3.5.2 Test Setup

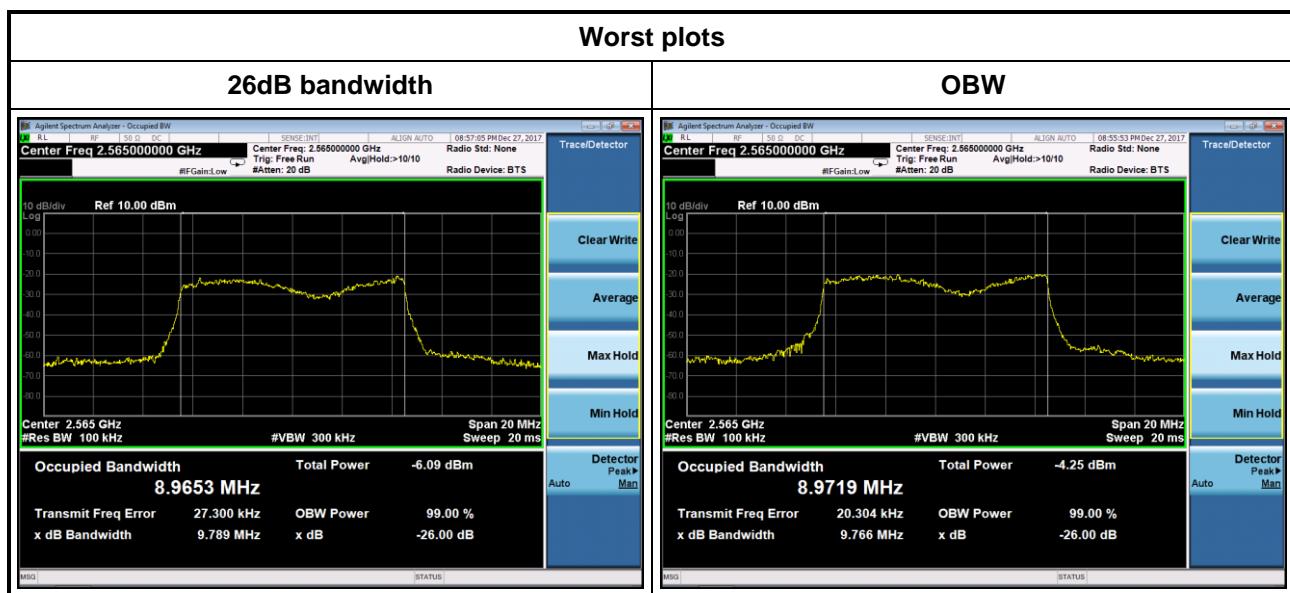


3.5.3 Test Result of Occupied Bandwidth_CDD mode

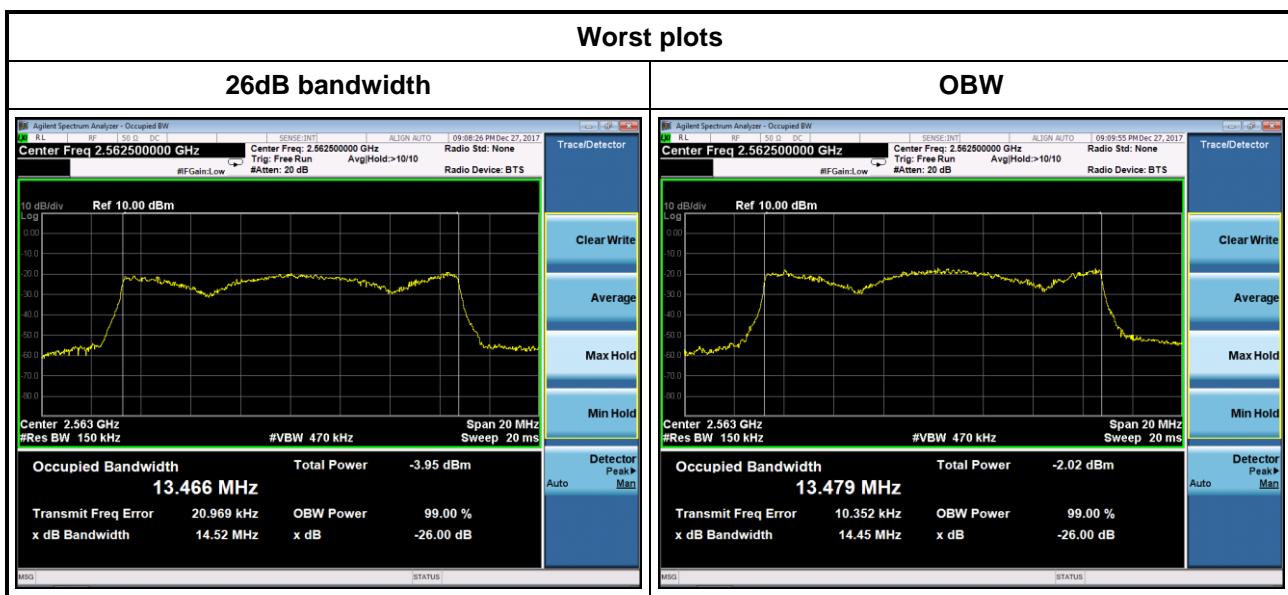
| Channel Bandwidth (MHz) | Modulation | Frequency (MHz) | 26dB BW (MHz) | 99% OBW (MHz) |
|-------------------------|------------|-----------------|---------------|---------------|
| 5 | QPSK | 2498.5 | 5.0380 | 4.4010 |
| 5 | QPSK | 2533.0 | 5.0950 | 4.3779 |
| 5 | QPSK | 2567.5 | 5.0000 | 4.4330 |
| 5 | 16QAM | 2498.5 | 5.0520 | 4.4054 |
| 5 | 16QAM | 2533.0 | 5.0460 | 4.3937 |
| 5 | 16QAM | 2567.5 | 5.0510 | 4.4363 |
| 5 | 64QAM | 2498.5 | 5.0960 | 4.3872 |
| 5 | 64QAM | 2533.0 | 5.0080 | 4.3877 |
| 5 | 64QAM | 2567.5 | 5.0930 | 4.4403 |



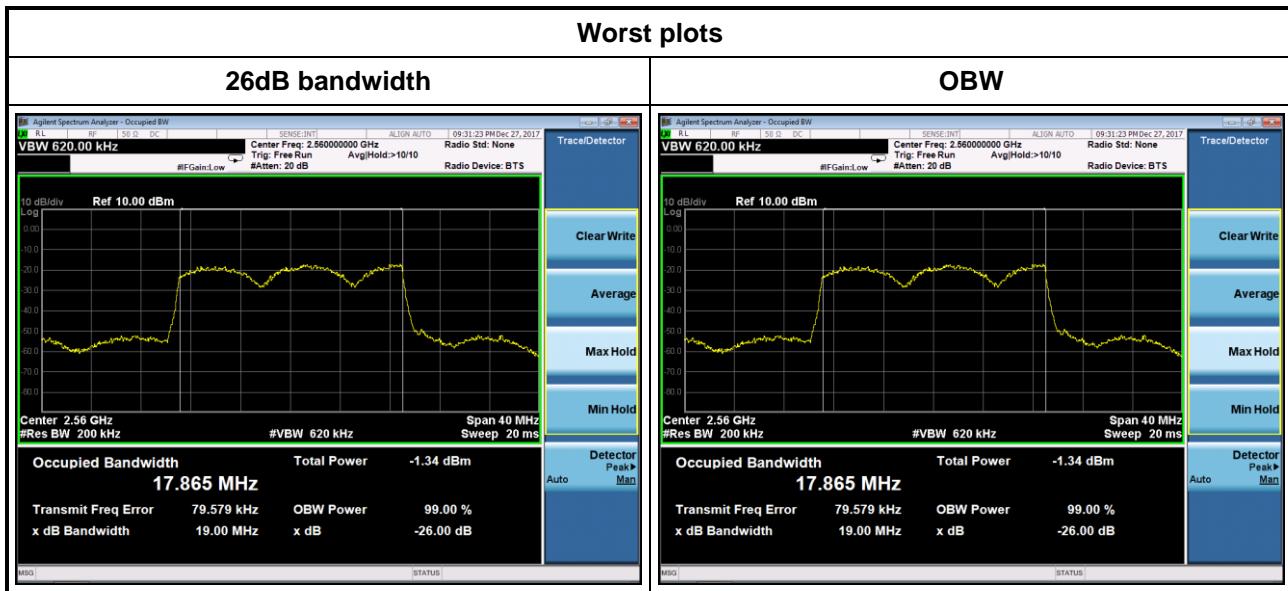
| Channel Bandwidth (MHz) | Modulation | Frequency (MHz) | 26dB BW (MHz) | 99% OBW (MHz) |
|-------------------------|------------|-----------------|---------------|---------------|
| 10 | QPSK | 2501.0 | 9.7110 | 8.9546 |
| 10 | QPSK | 2533.0 | 9.3820 | 8.7363 |
| 10 | QPSK | 2565.0 | 9.7660 | 8.9719 |
| 10 | 16QAM | 2501.0 | 9.6900 | 8.9495 |
| 10 | 16QAM | 2533.0 | 9.4040 | 8.7278 |
| 10 | 16QAM | 2565.0 | 9.7620 | 8.9615 |
| 10 | 64QAM | 2501.0 | 9.7670 | 8.9495 |
| 10 | 64QAM | 2533.0 | 9.5060 | 8.7180 |
| 10 | 64QAM | 2565.0 | 9.7890 | 8.9653 |



| Channel Bandwidth (MHz) | Modulation | Frequency (MHz) | 26dB BW (MHz) | 99% OBW (MHz) |
|-------------------------|------------|-----------------|---------------|---------------|
| 15 | QPSK | 2503.5 | 14.3300 | 13.4230 |
| 15 | QPSK | 2533.0 | 14.3700 | 13.4670 |
| 15 | QPSK | 2562.5 | 14.4500 | 13.4790 |
| 15 | 16QAM | 2503.5 | 14.3500 | 13.4250 |
| 15 | 16QAM | 2533.0 | 14.3200 | 13.4650 |
| 15 | 16QAM | 2562.5 | 14.4100 | 13.4760 |
| 15 | 64QAM | 2503.5 | 14.3600 | 13.4000 |
| 15 | 64QAM | 2533.0 | 14.4000 | 13.4050 |
| 15 | 64QAM | 2562.5 | 14.5200 | 13.4660 |

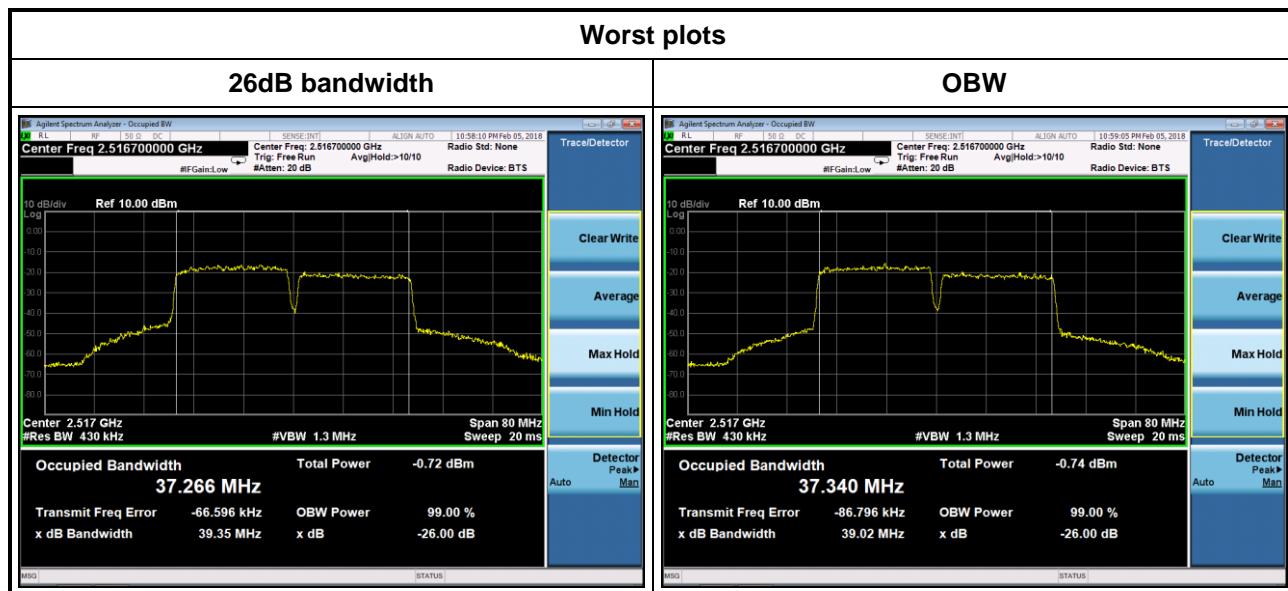


| Channel Bandwidth (MHz) | Modulation | Frequency (MHz) | 26dB BW (MHz) | 99% OBW (MHz) |
|-------------------------|------------|-----------------|---------------|---------------|
| 20 | QPSK | 2506.0 | 18.7800 | 17.3150 |
| 20 | QPSK | 2533.0 | 18.7800 | 17.7450 |
| 20 | QPSK | 2560.0 | 19.0000 | 17.8650 |
| 20 | 16QAM | 2506.0 | 18.7200 | 17.6310 |
| 20 | 16QAM | 2533.0 | 18.7100 | 17.7050 |
| 20 | 16QAM | 2560.0 | 18.8100 | 17.7740 |
| 20 | 64QAM | 2506.0 | 18.7700 | 17.5540 |
| 20 | 64QAM | 2533.0 | 18.7000 | 17.7040 |
| 20 | 64QAM | 2560.0 | 18.9300 | 17.8000 |



3.5.4 Test Result of Occupied Bandwidth_CA mode

| Channel Bandwidth (MHz) | Modulation | PCC Freq. (MHz) | PCC Freq. (MHz) | 26dB BW (MHz) | 99% OBW (MHz) |
|-------------------------|------------|-----------------|-----------------|---------------|---------------|
| 20+20 | QPSK | 2506.8 | 2526.6 | 39.0200 | 37.3400 |
| 20+20 | QPSK | 2523.6 | 2543.4 | 38.8600 | 37.0820 |
| 20+20 | QPSK | 2538.2 | 2558.0 | 38.9200 | 37.2690 |
| 20+20 | 16QAM | 2506.8 | 2526.6 | 39.0700 | 37.3060 |
| 20+20 | 16QAM | 2523.6 | 2543.4 | 38.8400 | 37.0260 |
| 20+20 | 16QAM | 2538.2 | 2558.0 | 38.9400 | 37.1930 |
| 20+20 | 64QAM | 2506.8 | 2526.6 | 39.3500 | 37.2660 |
| 20+20 | 64QAM | 2523.6 | 2543.4 | 38.7600 | 36.9530 |
| 20+20 | 64QAM | 2538.2 | 2558.0 | 39.0400 | 37.1380 |



3.6 Frequency Stability

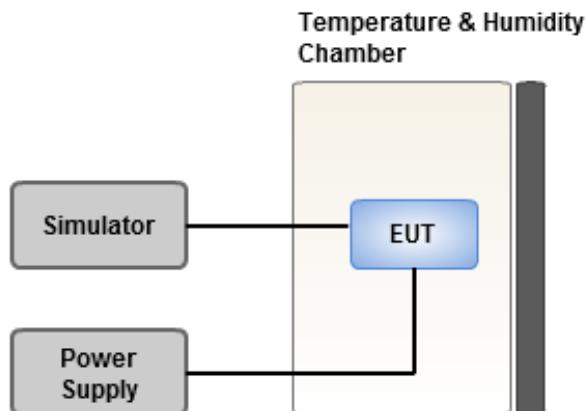
3.6.1 Limit of Frequency Stability

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation

3.6.2 Test Procedures

1. EUT was placed at temperature chamber and connected to an external power supply.
2. Temperature and voltage condition shall be tested to confirm frequency stability.
3. Temperature range is from -40~60°C and voltage range is from lowest to highest working voltage.
4. Tem Link up EUT and simulator. Confirm frequency drift value of simulator and record it.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability_CDD mode

| Temperature (°C) | Voltage (ac) | Frequency Drift (ppm) | | | |
|------------------|--------------|-----------------------|-----------|-----------|-----------|
| | | CB: 5MHz | CB: 10MHz | CB: 15MHz | CB: 20MHz |
| 60 | 120 | -0.015 | -0.014 | -0.015 | -0.014 |
| 50 | 120 | -0.017 | -0.016 | -0.013 | -0.012 |
| 40 | 120 | -0.018 | -0.015 | -0.012 | -0.013 |
| 30 | 120 | -0.014 | -0.016 | -0.013 | -0.015 |
| 20 | 120 | -0.013 | -0.012 | -0.014 | -0.012 |
| 10 | 120 | -0.012 | -0.014 | -0.015 | -0.013 |
| 0 | 120 | -0.015 | -0.014 | -0.016 | -0.015 |
| -10 | 120 | -0.014 | -0.013 | -0.017 | -0.11 |
| -20 | 120 | -0.016 | -0.015 | -0.014 | -0.013 |
| -30 | 120 | -0.017 | -0.016 | -0.018 | -0.014 |
| -40 | 120 | -0.018 | -0.019 | -0.016 | -0.012 |
| 20 | 138 | -0.017 | -0.018 | -0.015 | -0.015 |
| 20 | 102 | -0.018 | -0.019 | -0.014 | -0.016 |

3.6.5 Test Result of Frequency Stability_CA mode

| Temperature (°C) | Voltage (ac) | Frequency Drift (ppm) | |
|------------------|--------------|-----------------------|--------|
| | | CB: 20MHz+20MHz | |
| 60 | 120 | | -0.013 |
| 50 | 120 | | -0.014 |
| 40 | 120 | | -0.013 |
| 30 | 120 | | -0.012 |
| 20 | 120 | | -0.015 |
| 10 | 120 | | -0.016 |
| 0 | 120 | | -0.013 |
| -10 | 120 | | -0.014 |
| -20 | 120 | | -0.13 |
| -30 | 120 | | -0.012 |
| -40 | 120 | | -0.014 |
| 20 | 138 | | -0.150 |
| 20 | 102 | | -0.013 |

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C..

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

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