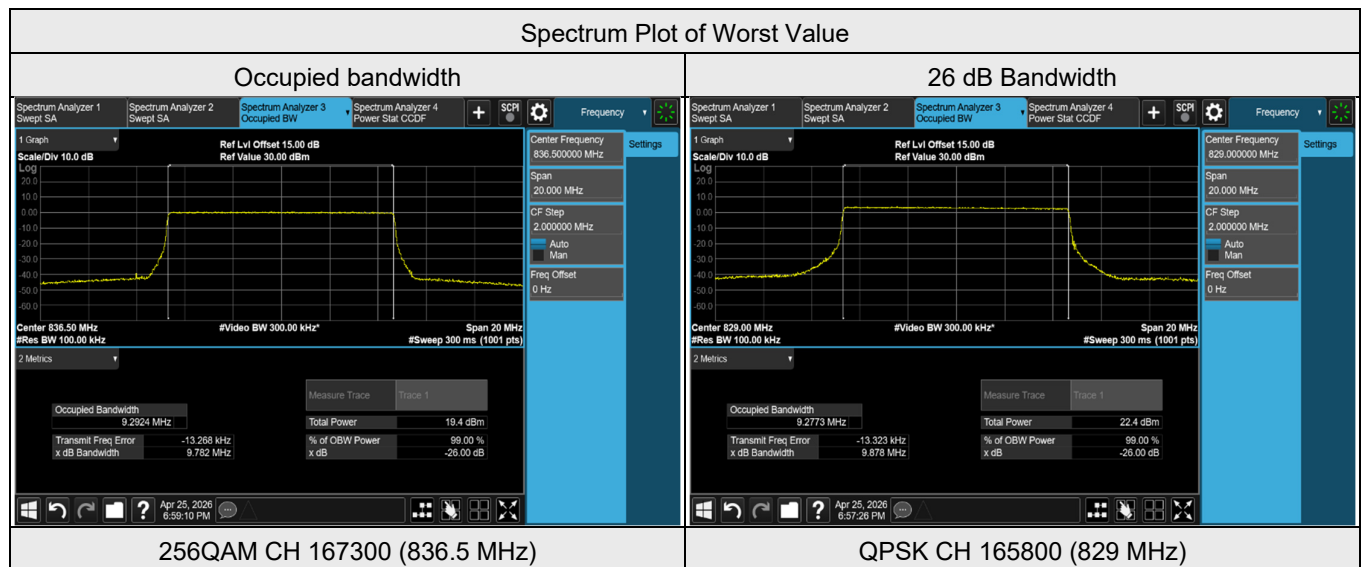


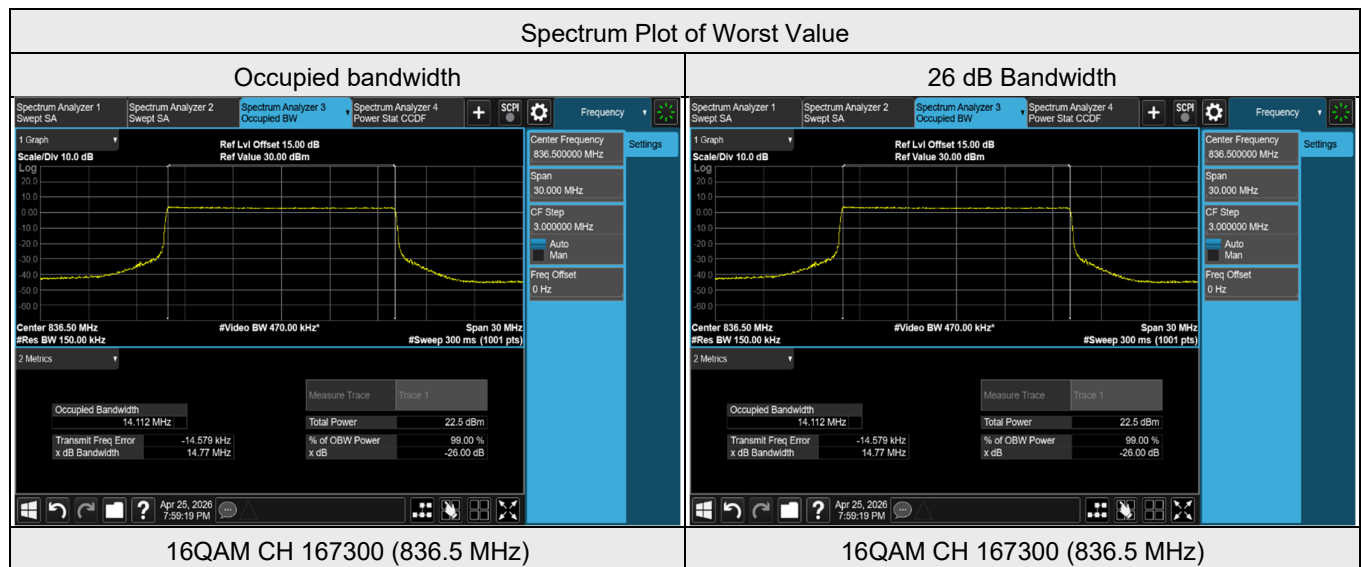
# NR n5 SCS 15 kHz, Channel Bandwidth: 10 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 165800  | 829             | 8.9243                   | 9.388                 |
| BPSK       | 167300  | 836.5           | 8.9219                   | 9.387                 |
| BPSK       | 168800  | 844             | 8.9217                   | 9.367                 |
| QPSK       | 165800  | 829             | 9.2773                   | 9.878                 |
| QPSK       | 167300  | 836.5           | 9.2798                   | 9.792                 |
| QPSK       | 168800  | 844             | 9.2738                   | 9.779                 |
| 16QAM      | 165800  | 829             | 9.2814                   | 9.842                 |
| 16QAM      | 167300  | 836.5           | 9.2818                   | 9.842                 |
| 16QAM      | 168800  | 844             | 9.2789                   | 9.783                 |
| 64QAM      | 165800  | 829             | 9.2840                   | 9.768                 |
| 64QAM      | 167300  | 836.5           | 9.2796                   | 9.773                 |
| 64QAM      | 168800  | 844             | 9.2752                   | 9.761                 |
| 256QAM     | 165800  | 829             | 9.2817                   | 9.807                 |
| 256QAM     | 167300  | 836.5           | 9.2924                   | 9.782                 |
| 256QAM     | 168800  | 844             | 9.2762                   | 9.767                 |



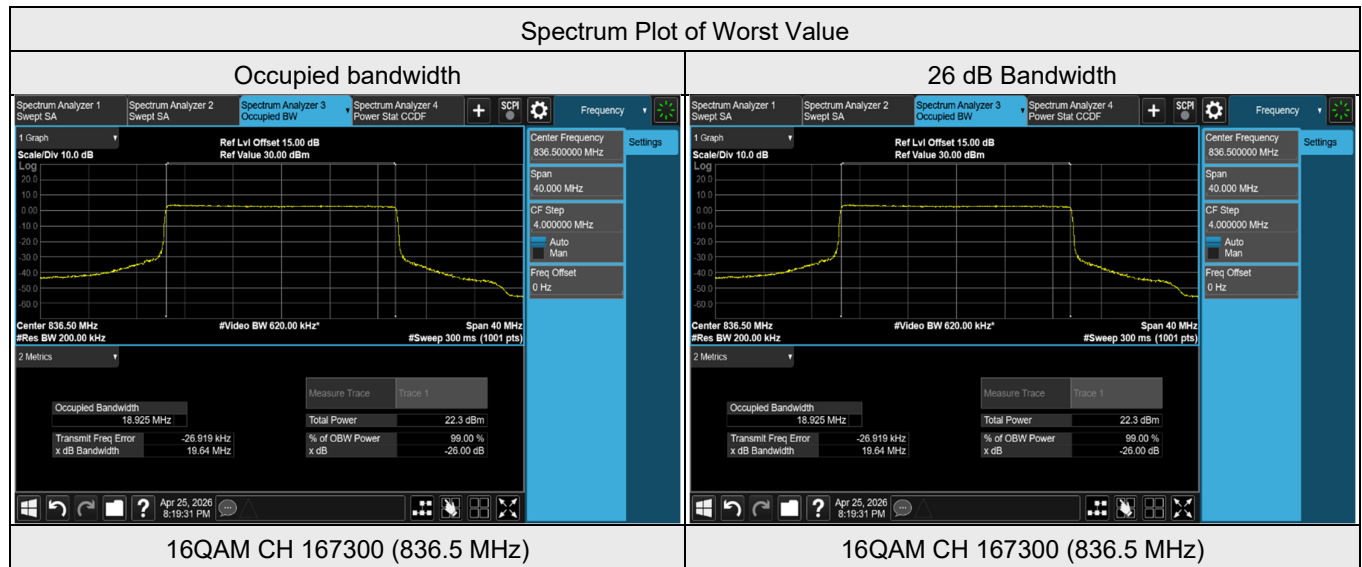
# NR n5 SCS 15 kHz, Channel Bandwidth: 15 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 166300  | 831.5           | 13.402                   | 13.97                 |
| BPSK       | 167300  | 836.5           | 13.388                   | 13.95                 |
| BPSK       | 168300  | 841.5           | 13.385                   | 13.94                 |
| QPSK       | 166300  | 831.5           | 14.103                   | 14.76                 |
| QPSK       | 167300  | 836.5           | 14.100                   | 14.73                 |
| QPSK       | 168300  | 841.5           | 14.094                   | 14.77                 |
| 16QAM      | 166300  | 831.5           | 14.108                   | 14.77                 |
| 16QAM      | 167300  | 836.5           | 14.112                   | 14.77                 |
| 16QAM      | 168300  | 841.5           | 14.095                   | 14.74                 |
| 64QAM      | 166300  | 831.5           | 14.104                   | 14.71                 |
| 64QAM      | 167300  | 836.5           | 14.105                   | 14.68                 |
| 64QAM      | 168300  | 841.5           | 14.097                   | 14.74                 |
| 256QAM     | 166300  | 831.5           | 14.104                   | 14.70                 |
| 256QAM     | 167300  | 836.5           | 14.105                   | 14.66                 |
| 256QAM     | 168300  | 841.5           | 14.094                   | 14.68                 |



# NR n5 SCS 15 kHz, Channel Bandwidth: 20 MHz

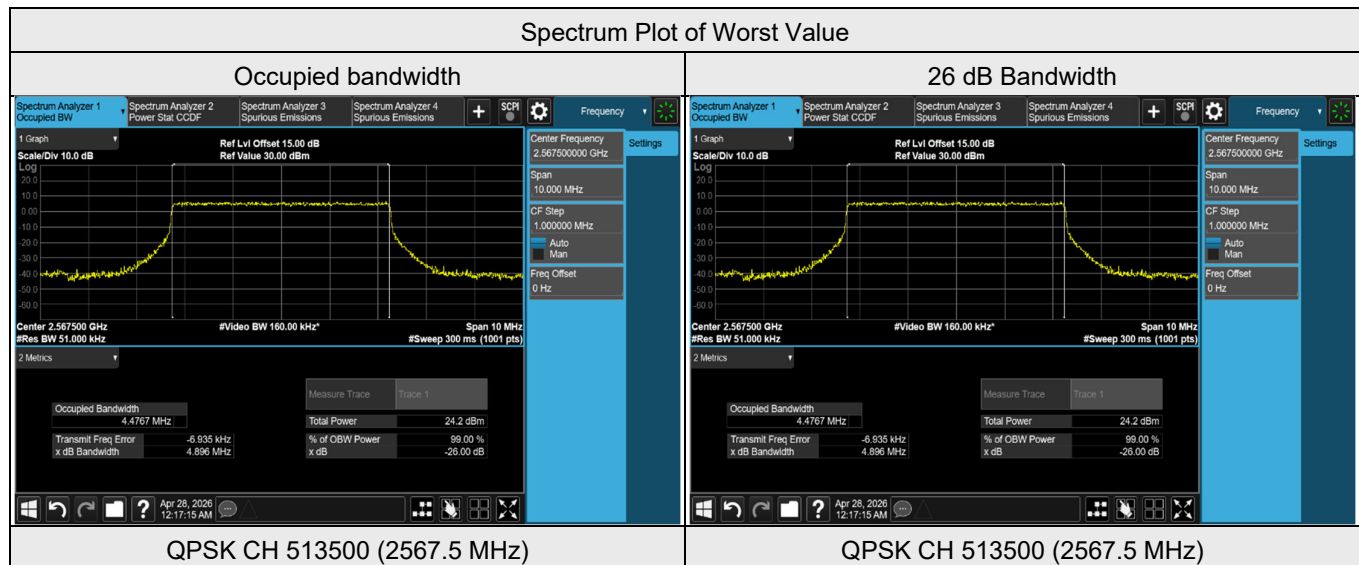
| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 166800  | 834             | 17.874                   | 18.56                 |
| BPSK       | 167300  | 836.5           | 17.863                   | 18.52                 |
| BPSK       | 167800  | 839             | 17.845                   | 18.54                 |
| QPSK       | 166800  | 834             | 18.921                   | 19.63                 |
| QPSK       | 167300  | 836.5           | 18.911                   | 19.63                 |
| QPSK       | 167800  | 839             | 18.899                   | 19.63                 |
| 16QAM      | 166800  | 834             | 18.924                   | 19.63                 |
| 16QAM      | 167300  | 836.5           | 18.925                   | 19.64                 |
| 16QAM      | 167800  | 839             | 18.916                   | 19.61                 |
| 64QAM      | 166800  | 834             | 18.920                   | 19.62                 |
| 64QAM      | 167300  | 836.5           | 18.915                   | 19.62                 |
| 64QAM      | 167800  | 839             | 18.911                   | 19.61                 |
| 256QAM     | 166800  | 834             | 18.923                   | 19.61                 |
| 256QAM     | 167300  | 836.5           | 18.918                   | 19.59                 |
| 256QAM     | 167800  | 839             | 18.910                   | 19.61                 |



### 7.4.3 NR n7 SCS 15 kHz

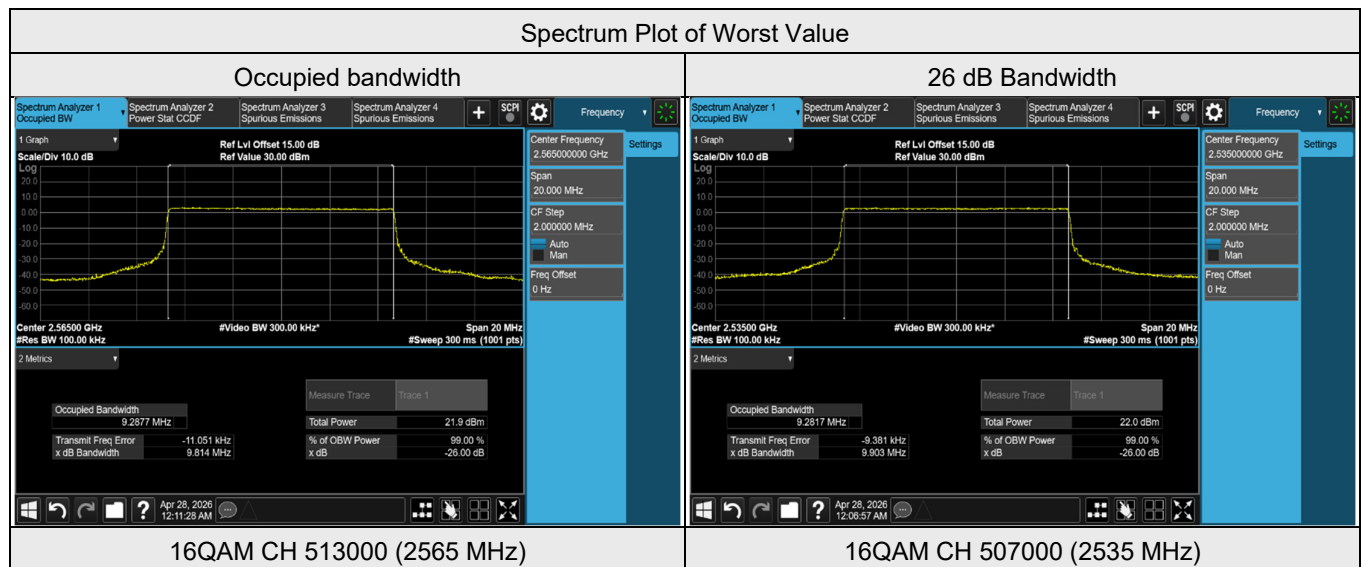
#### NR n7 SCS 15 kHz, Channel Bandwidth: 5 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 500500  | 2502.5          | 4.4698                   | 4.843                 |
| BPSK       | 507000  | 2535            | 4.4728                   | 4.821                 |
| BPSK       | 513500  | 2567.5          | 4.4732                   | 4.894                 |
| QPSK       | 500500  | 2502.5          | 4.4667                   | 4.838                 |
| QPSK       | 507000  | 2535            | 4.4682                   | 4.871                 |
| QPSK       | 513500  | 2567.5          | 4.4767                   | 4.896                 |
| 16QAM      | 500500  | 2502.5          | 4.4672                   | 4.844                 |
| 16QAM      | 507000  | 2535            | 4.4684                   | 4.876                 |
| 16QAM      | 513500  | 2567.5          | 4.4666                   | 4.877                 |
| 64QAM      | 500500  | 2502.5          | 4.4685                   | 4.836                 |
| 64QAM      | 507000  | 2535            | 4.4696                   | 4.804                 |
| 64QAM      | 513500  | 2567.5          | 4.4697                   | 4.874                 |
| 256QAM     | 500500  | 2502.5          | 4.4686                   | 4.831                 |
| 256QAM     | 507000  | 2535            | 4.4678                   | 4.871                 |
| 256QAM     | 513500  | 2567.5          | 4.4701                   | 4.863                 |



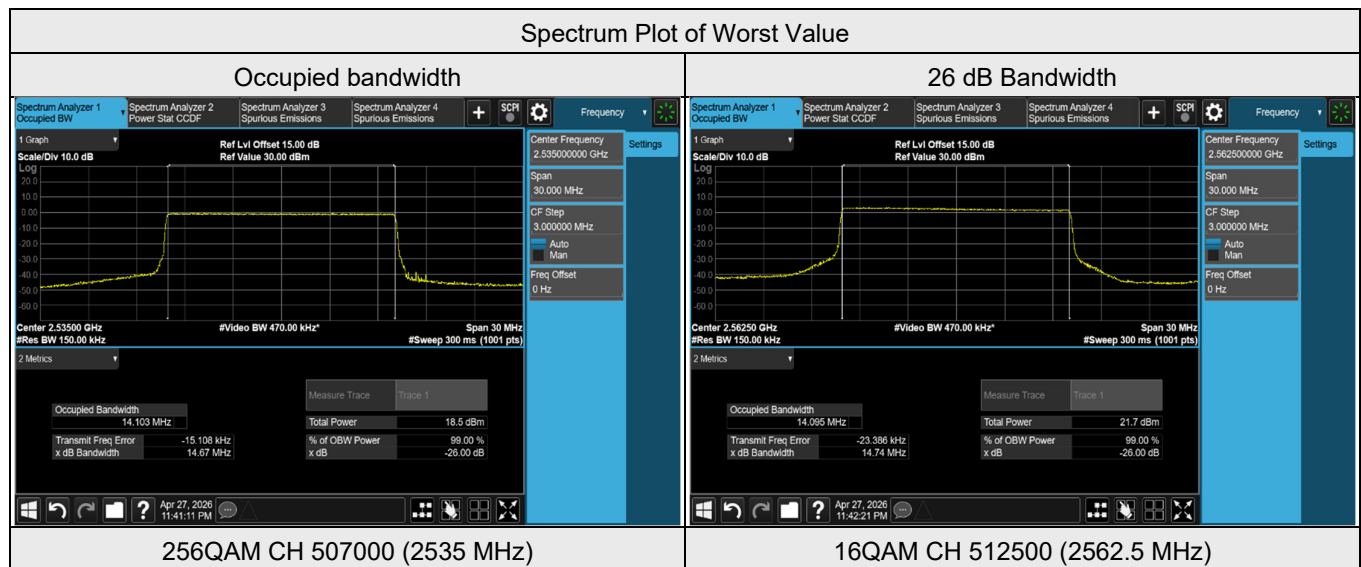
# NR n7 SCS 15 kHz, Channel Bandwidth: 10 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 501000  | 2505            | 8.9239                   | 9.323                 |
| BPSK       | 507000  | 2535            | 8.9194                   | 9.379                 |
| BPSK       | 513000  | 2565            | 8.9282                   | 9.354                 |
| QPSK       | 501000  | 2505            | 9.2781                   | 9.770                 |
| QPSK       | 507000  | 2535            | 9.2785                   | 9.795                 |
| QPSK       | 513000  | 2565            | 9.2831                   | 9.811                 |
| 16QAM      | 501000  | 2505            | 9.2780                   | 9.786                 |
| 16QAM      | 507000  | 2535            | 9.2817                   | 9.903                 |
| 16QAM      | 513000  | 2565            | 9.2877                   | 9.814                 |
| 64QAM      | 501000  | 2505            | 9.2822                   | 9.747                 |
| 64QAM      | 507000  | 2535            | 9.2815                   | 9.719                 |
| 64QAM      | 513000  | 2565            | 9.2840                   | 9.788                 |
| 256QAM     | 501000  | 2505            | 9.2819                   | 9.720                 |
| 256QAM     | 507000  | 2535            | 9.2852                   | 9.777                 |
| 256QAM     | 513000  | 2565            | 9.2581                   | 9.755                 |



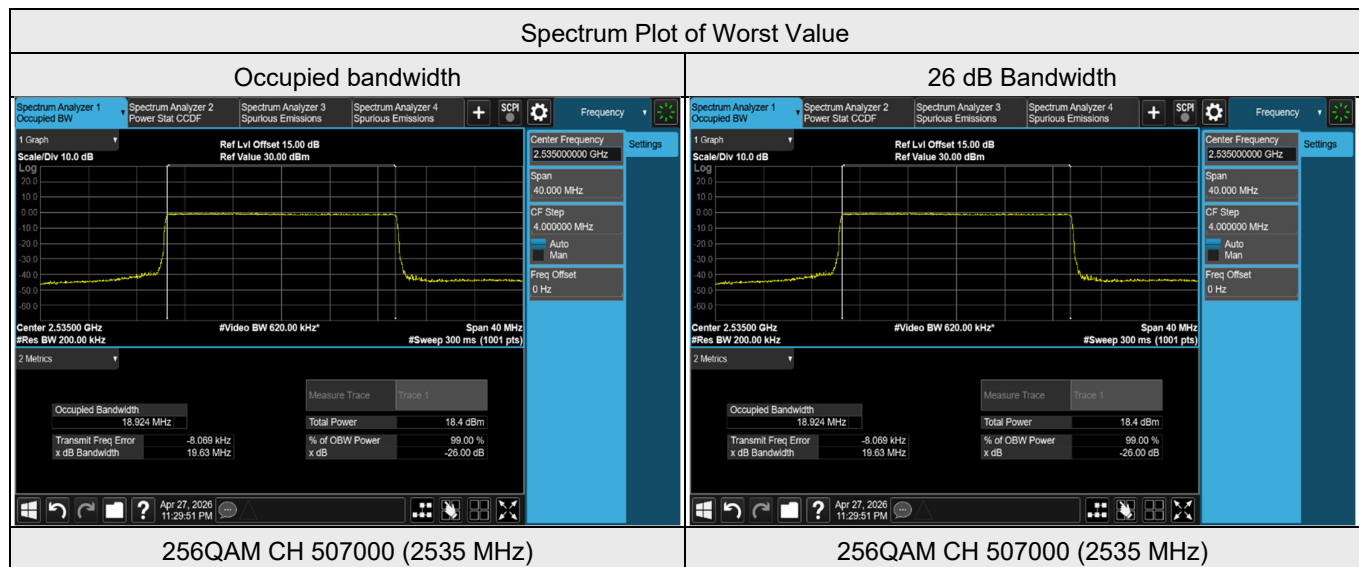
# NR n7 SCS 15 kHz, Channel Bandwidth: 15 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 501500  | 2507.5          | 13.380                   | 13.90                 |
| BPSK       | 507000  | 2535            | 13.395                   | 13.96                 |
| BPSK       | 512500  | 2562.5          | 13.389                   | 13.93                 |
| QPSK       | 501500  | 2507.5          | 14.081                   | 14.68                 |
| QPSK       | 507000  | 2535            | 14.096                   | 14.70                 |
| QPSK       | 512500  | 2562.5          | 14.092                   | 14.63                 |
| 16QAM      | 501500  | 2507.5          | 14.091                   | 14.71                 |
| 16QAM      | 507000  | 2535            | 14.097                   | 14.68                 |
| 16QAM      | 512500  | 2562.5          | 14.095                   | 14.74                 |
| 64QAM      | 501500  | 2507.5          | 14.088                   | 14.67                 |
| 64QAM      | 507000  | 2535            | 14.099                   | 14.67                 |
| 64QAM      | 512500  | 2562.5          | 14.098                   | 14.67                 |
| 256QAM     | 501500  | 2507.5          | 14.080                   | 14.69                 |
| 256QAM     | 507000  | 2535            | 14.103                   | 14.67                 |
| 256QAM     | 512500  | 2562.5          | 14.094                   | 14.64                 |



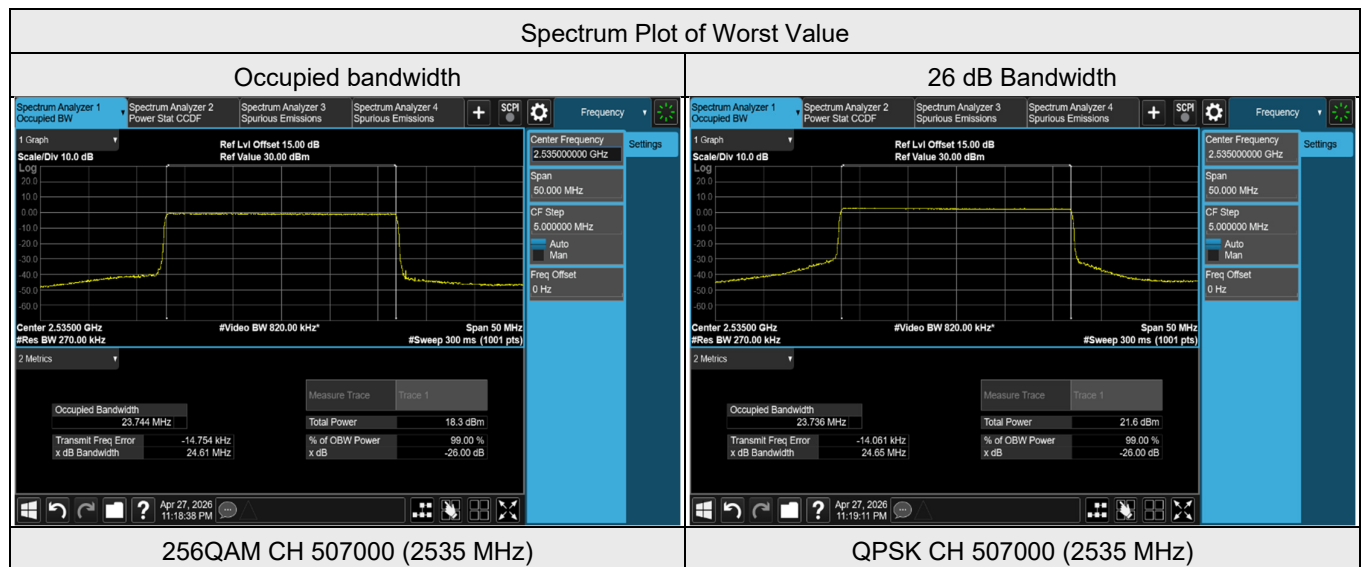
# NR n7 SCS 15 kHz, Channel Bandwidth: 20 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 502000  | 2510            | 17.830                   | 18.54                 |
| BPSK       | 507000  | 2535            | 17.851                   | 18.53                 |
| BPSK       | 512000  | 2560            | 17.863                   | 18.54                 |
| QPSK       | 502000  | 2510            | 18.879                   | 19.61                 |
| QPSK       | 507000  | 2535            | 18.914                   | 19.63                 |
| QPSK       | 512000  | 2560            | 18.904                   | 19.60                 |
| 16QAM      | 502000  | 2510            | 18.886                   | 19.61                 |
| 16QAM      | 507000  | 2535            | 18.918                   | 19.61                 |
| 16QAM      | 512000  | 2560            | 18.913                   | 19.63                 |
| 64QAM      | 502000  | 2510            | 18.883                   | 19.62                 |
| 64QAM      | 507000  | 2535            | 18.916                   | 19.61                 |
| 64QAM      | 512000  | 2560            | 18.902                   | 19.60                 |
| 256QAM     | 502000  | 2510            | 18.889                   | 19.61                 |
| 256QAM     | 507000  | 2535            | 18.924                   | 19.63                 |
| 256QAM     | 512000  | 2560            | 18.899                   | 19.62                 |



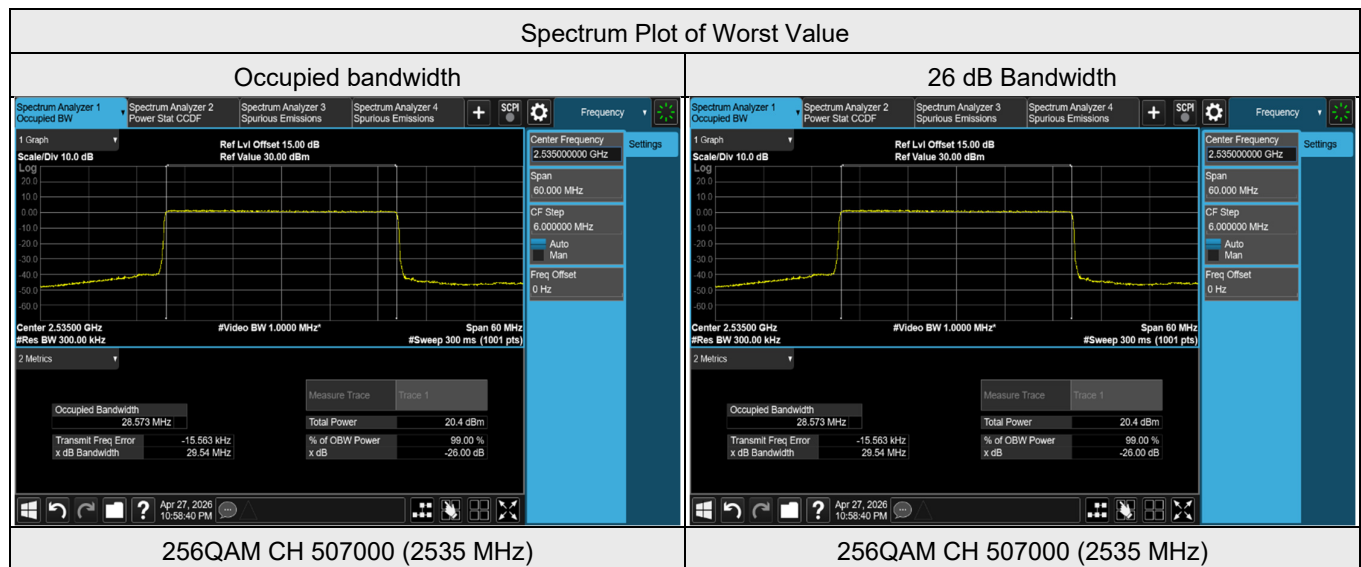
# NR n7 SCS 15 kHz, Channel Bandwidth: 25 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 502500  | 2512.5          | 22.834                   | 23.70                 |
| BPSK       | 507000  | 2535            | 22.855                   | 23.70                 |
| BPSK       | 511500  | 2557.5          | 22.822                   | 23.71                 |
| QPSK       | 502500  | 2512.5          | 23.683                   | 24.61                 |
| QPSK       | 507000  | 2535            | 23.736                   | 24.65                 |
| QPSK       | 511500  | 2557.5          | 23.707                   | 24.63                 |
| 16QAM      | 502500  | 2512.5          | 23.687                   | 24.62                 |
| 16QAM      | 507000  | 2535            | 23.739                   | 24.64                 |
| 16QAM      | 511500  | 2557.5          | 23.716                   | 24.62                 |
| 64QAM      | 502500  | 2512.5          | 23.689                   | 24.61                 |
| 64QAM      | 507000  | 2535            | 23.733                   | 24.63                 |
| 64QAM      | 511500  | 2557.5          | 23.720                   | 24.62                 |
| 256QAM     | 502500  | 2512.5          | 23.693                   | 24.60                 |
| 256QAM     | 507000  | 2535            | 23.744                   | 24.61                 |
| 256QAM     | 511500  | 2557.5          | 23.721                   | 24.61                 |



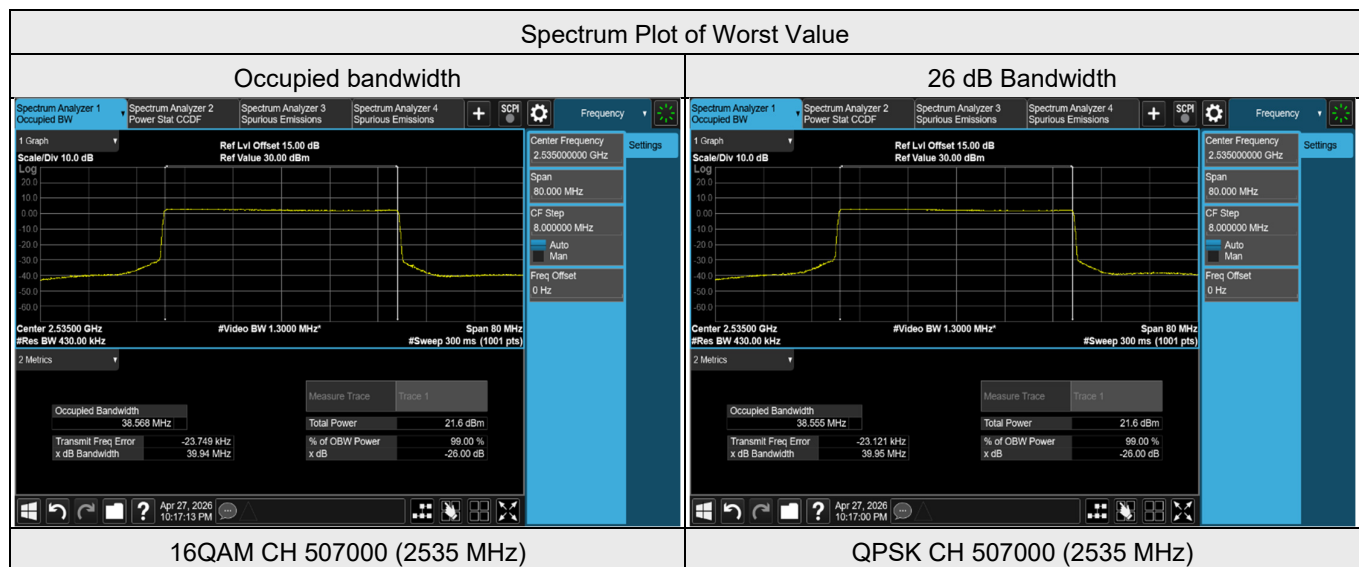
# NR n7 SCS 15 kHz, Channel Bandwidth: 30 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 503000  | 2515            | 28.525                   | 29.52                 |
| BPSK       | 507000  | 2535            | 28.557                   | 29.54                 |
| BPSK       | 511000  | 2555            | 28.517                   | 29.53                 |
| QPSK       | 503000  | 2515            | 28.478                   | 29.51                 |
| QPSK       | 507000  | 2535            | 28.549                   | 29.54                 |
| QPSK       | 511000  | 2555            | 28.504                   | 29.53                 |
| 16QAM      | 503000  | 2515            | 28.473                   | 29.51                 |
| 16QAM      | 507000  | 2535            | 28.558                   | 29.53                 |
| 16QAM      | 511000  | 2555            | 28.507                   | 29.52                 |
| 64QAM      | 503000  | 2515            | 28.482                   | 29.52                 |
| 64QAM      | 507000  | 2535            | 28.543                   | 29.53                 |
| 64QAM      | 511000  | 2555            | 28.497                   | 29.51                 |
| 256QAM     | 503000  | 2515            | 28.505                   | 29.51                 |
| 256QAM     | 507000  | 2535            | 28.573                   | 29.54                 |
| 256QAM     | 511000  | 2555            | 28.499                   | 29..53                |



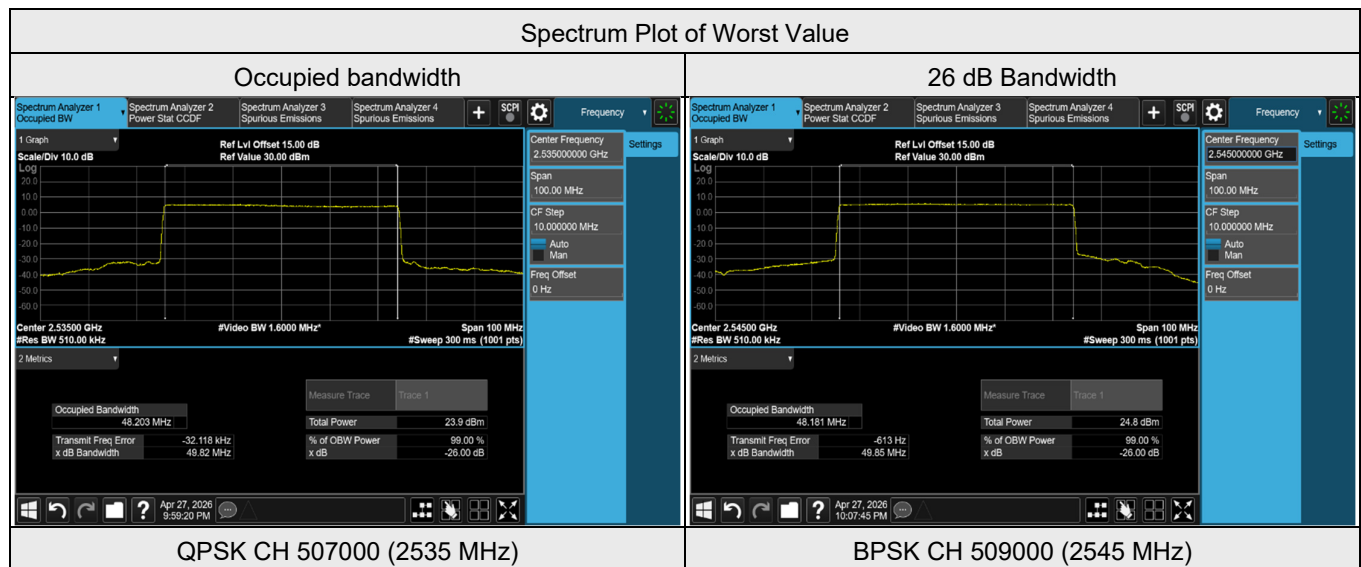
# NR n7 SCS 15 kHz, Channel Bandwidth: 40 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 504000  | 2520            | 38.464                   | 39.86                 |
| BPSK       | 507000  | 2535            | 38.551                   | 39.93                 |
| BPSK       | 510000  | 2550            | 38.551                   | 39.92                 |
| QPSK       | 504000  | 2520            | 38.451                   | 39.90                 |
| QPSK       | 507000  | 2535            | 38.555                   | 39.95                 |
| QPSK       | 510000  | 2550            | 38.483                   | 39.90                 |
| 16QAM      | 504000  | 2520            | 38.457                   | 39.91                 |
| 16QAM      | 507000  | 2535            | 38.568                   | 39.94                 |
| 16QAM      | 510000  | 2550            | 38.483                   | 39.91                 |
| 64QAM      | 504000  | 2520            | 38.456                   | 39.87                 |
| 64QAM      | 507000  | 2535            | 38.564                   | 39.94                 |
| 64QAM      | 510000  | 2550            | 38.478                   | 39.92                 |
| 256QAM     | 504000  | 2520            | 38.449                   | 39.90                 |
| 256QAM     | 507000  | 2535            | 38.542                   | 39.90                 |
| 256QAM     | 510000  | 2550            | 38.481                   | 39.88                 |



# NR n7 SCS 15 kHz, Channel Bandwidth: 50 MHz

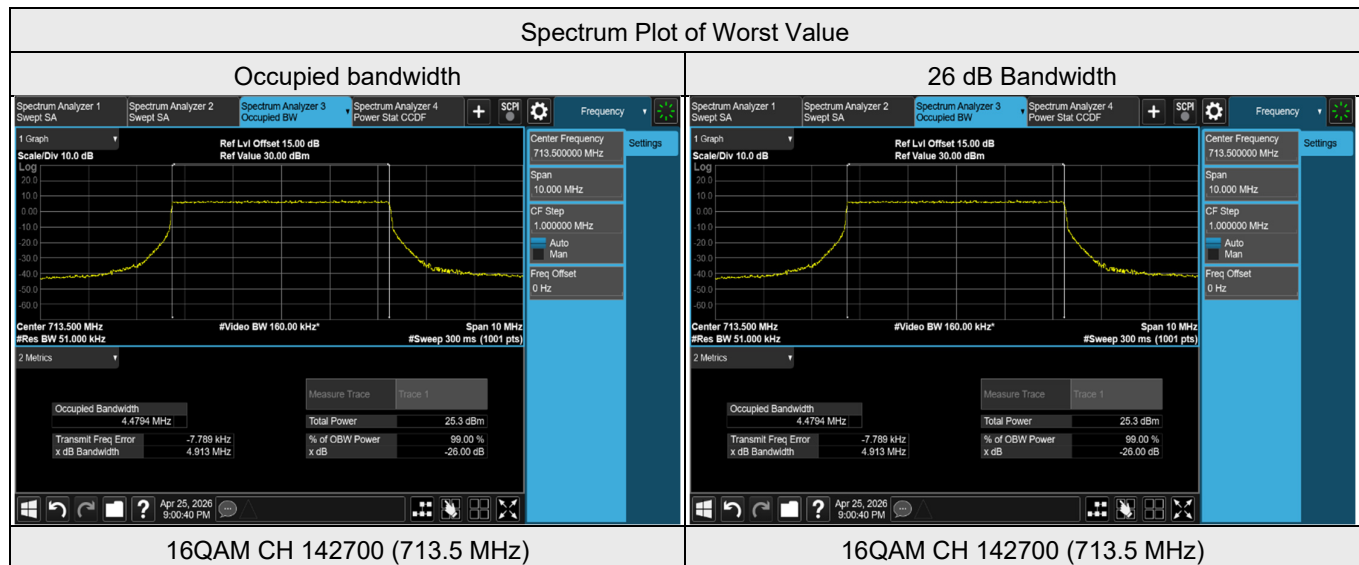
| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 505000  | 2525            | 48.101                   | 49.80                 |
| BPSK       | 507000  | 2535            | 48.191                   | 49.83                 |
| BPSK       | 509000  | 2545            | 48.181                   | 49.85                 |
| QPSK       | 505000  | 2525            | 48.110                   | 49.80                 |
| QPSK       | 507000  | 2535            | 48.203                   | 49.82                 |
| QPSK       | 509000  | 2545            | 48.129                   | 49.81                 |
| 16QAM      | 505000  | 2525            | 48.102                   | 49.79                 |
| 16QAM      | 507000  | 2535            | 48.179                   | 49.83                 |
| 16QAM      | 509000  | 2545            | 48.136                   | 49.79                 |
| 64QAM      | 505000  | 2525            | 48.093                   | 49.78                 |
| 64QAM      | 507000  | 2535            | 48.170                   | 49.81                 |
| 64QAM      | 509000  | 2545            | 48.099                   | 49.80                 |
| 256QAM     | 505000  | 2525            | 48.068                   | 49.78                 |
| 256QAM     | 507000  | 2535            | 48.200                   | 49.81                 |
| 256QAM     | 509000  | 2545            | 48.123                   | 49.79                 |



#### 7.4.4 NR n12 SCS 15 kHz

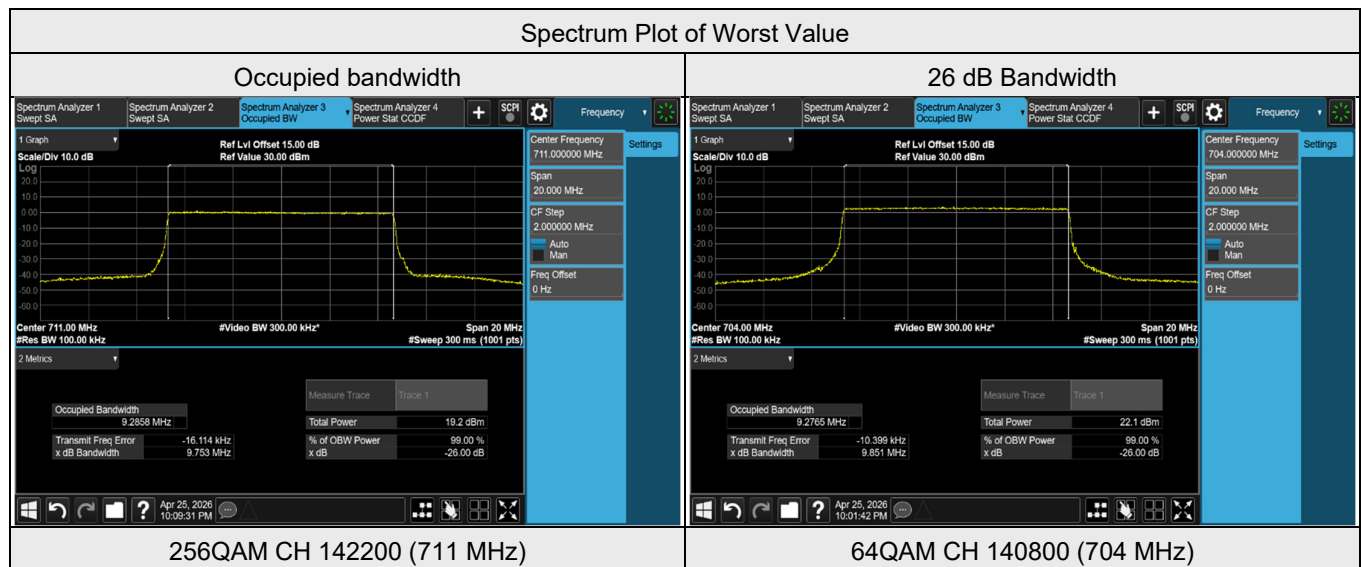
##### NR n12 SCS 15 kHz, Channel Bandwidth: 5 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 140300  | 701.5           | 4.4665                   | 4.828                 |
| BPSK       | 141500  | 707.5           | 4.4666                   | 4.823                 |
| BPSK       | 142700  | 713.5           | 4.4713                   | 4.856                 |
| QPSK       | 140300  | 701.5           | 4.4698                   | 4.855                 |
| QPSK       | 141500  | 707.5           | 4.4727                   | 4.829                 |
| QPSK       | 142700  | 713.5           | 4.4683                   | 4.822                 |
| 16QAM      | 140300  | 701.5           | 4.4716                   | 4.804                 |
| 16QAM      | 141500  | 707.5           | 4.4628                   | 4.860                 |
| 16QAM      | 142700  | 713.5           | 4.4794                   | 4.913                 |
| 64QAM      | 140300  | 701.5           | 4.4720                   | 4.855                 |
| 64QAM      | 141500  | 707.5           | 4.4647                   | 4.816                 |
| 64QAM      | 142700  | 713.5           | 4.4655                   | 4.817                 |
| 256QAM     | 140300  | 701.5           | 4.4646                   | 4.877                 |
| 256QAM     | 141500  | 707.5           | 4.4697                   | 4.846                 |
| 256QAM     | 142700  | 713.5           | 4.4743                   | 4.880                 |



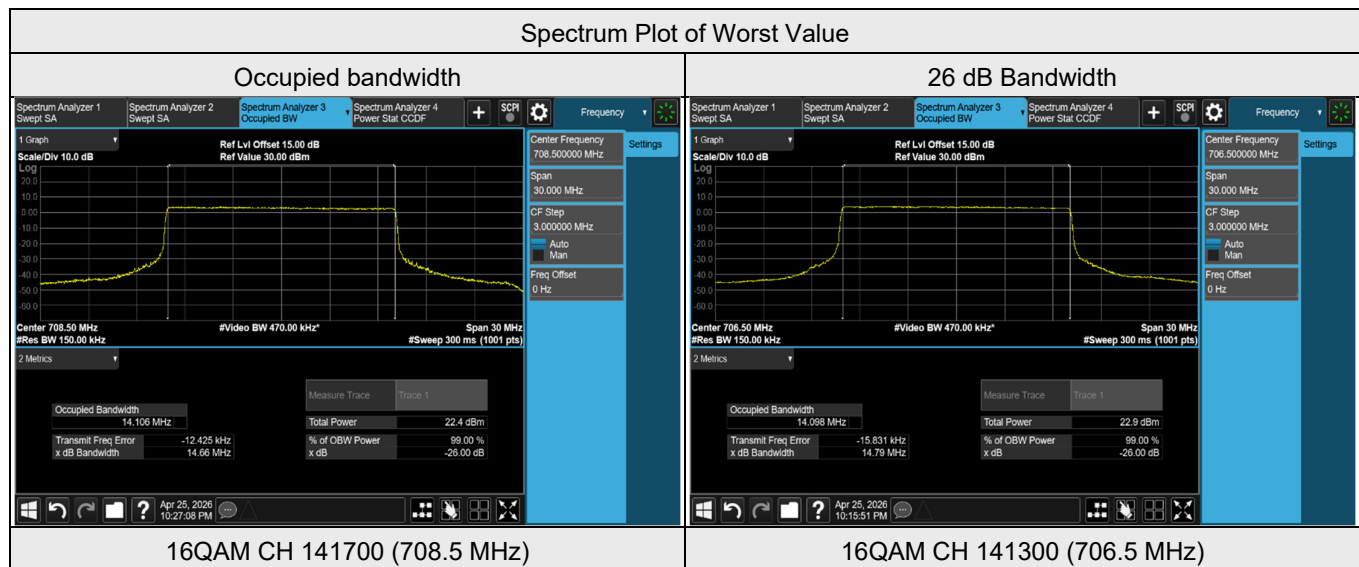
# NR n12 SCS 15 kHz, Channel Bandwidth: 10 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 140800  | 704             | 8.9325                   | 9.386                 |
| BPSK       | 141500  | 707.5           | 8.9153                   | 9.373                 |
| BPSK       | 142200  | 711             | 8.9254                   | 9.393                 |
| QPSK       | 140800  | 704             | 9.2740                   | 9.834                 |
| QPSK       | 141500  | 707.5           | 9.2744                   | 9.781                 |
| QPSK       | 142200  | 711             | 9.2793                   | 9.778                 |
| 16QAM      | 140800  | 704             | 9.2787                   | 9.791                 |
| 16QAM      | 141500  | 707.5           | 9.2729                   | 9.807                 |
| 16QAM      | 142200  | 711             | 9.2851                   | 9.795                 |
| 64QAM      | 140800  | 704             | 9.2765                   | 9.851                 |
| 64QAM      | 141500  | 707.5           | 9.2793                   | 9.749                 |
| 64QAM      | 142200  | 711             | 9.2836                   | 9.794                 |
| 256QAM     | 140800  | 704             | 9.2825                   | 9.717                 |
| 256QAM     | 141500  | 707.5           | 9.2757                   | 9.749                 |
| 256QAM     | 142200  | 711             | 9.2858                   | 9.753                 |



# NR n12 SCS 15 kHz, Channel Bandwidth: 15 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 141300  | 706.5           | 13.385                   | 13.95                 |
| BPSK       | 141500  | 707.5           | 13.403                   | 13.95                 |
| BPSK       | 141700  | 708.5           | 13.390                   | 13.94                 |
| QPSK       | 141300  | 706.5           | 14.091                   | 14.70                 |
| QPSK       | 141500  | 707.5           | 14.092                   | 14.67                 |
| QPSK       | 141700  | 708.5           | 14.097                   | 14.70                 |
| 16QAM      | 141300  | 706.5           | 14.098                   | 14.79                 |
| 16QAM      | 141500  | 707.5           | 14.093                   | 14.65                 |
| 16QAM      | 141700  | 708.5           | 14.106                   | 14.66                 |
| 64QAM      | 141300  | 706.5           | 14.093                   | 14.70                 |
| 64QAM      | 141500  | 707.5           | 14.094                   | 14.65                 |
| 64QAM      | 141700  | 708.5           | 14.096                   | 14.72                 |
| 256QAM     | 141300  | 706.5           | 14.090                   | 14.66                 |
| 256QAM     | 141500  | 707.5           | 14.097                   | 14.67                 |
| 256QAM     | 141700  | 708.5           | 14.105                   | 14.73                 |



#### 7.4.5 NR n13 SCS 15 kHz

#### NR n13 SCS 15 kHz, Channel Bandwidth: 5 MHz

| Modulation | Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|------------|---------|-----------------|--------------------------|-----------------------|
| BPSK       | 155900  | 779.5           | 4.4522                   | 4.809                 |
| BPSK       | 156400  | 782             | 4.4766                   | 4.827                 |
| BPSK       | 156900  | 784.5           | 4.4658                   | 4.836                 |
| QPSK       | 155900  | 779.5           | 4.4551                   | 4.797                 |
| QPSK       | 156400  | 782             | 4.4777                   | 4.865                 |
| QPSK       | 156900  | 784.5           | 4.4610                   | 4.844                 |
| 16QAM      | 155900  | 779.5           | 4.4512                   | 4.793                 |
| 16QAM      | 156400  | 782             | 4.4725                   | 4.860                 |
| 16QAM      | 156900  | 784.5           | 4.4673                   | 4.837                 |
| 64QAM      | 155900  | 779.5           | 4.4543                   | 4.825                 |
| 64QAM      | 156400  | 782             | 4.4746                   | 4.846                 |
| 64QAM      | 156900  | 784.5           | 4.4604                   | 4.809                 |
| 256QAM     | 155900  | 779.5           | 4.4535                   | 4.778                 |
| 256QAM     | 156400  | 782             | 4.4716                   | 4.872                 |
| 256QAM     | 156900  | 784.5           | 4.4673                   | 4.846                 |

