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# Appendix B.23

## NR Band n12



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000  
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

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## Effective (Isotropic) Radiated Power Output Data for SA

### Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config       | Power<br>(dBm) | ERP<br>(dBm) | LIMIT | Verdict |
|------|-----|-----------|-------------|---------|-----------------|----------------|--------------|-------|---------|
| N12  | 15  | 5         | DFT-PI2BPSK | L       | Inner_1RB_Left  | 23.33          | 22.48        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-PI2BPSK | L       | Inner_1RB_Right | 23.6           | 22.75        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-PI2BPSK | L       | Outer_Full      | 23.14          | 22.29        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-QPSK    | L       | Inner_1RB_Left  | 23.61          | 22.76        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-QPSK    | L       | Inner_1RB_Right | 23.5           | 22.65        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-QPSK    | L       | Outer_Full      | 22.76          | 21.91        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-16QAM   | L       | Inner_1RB_Left  | 22.64          | 21.79        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-16QAM   | L       | Inner_1RB_Right | 22.51          | 21.66        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-16QAM   | L       | Outer_Full      | 21.77          | 20.92        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-64QAM   | L       | Inner_1RB_Left  | 21.46          | 20.61        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-64QAM   | L       | Inner_1RB_Right | 21.32          | 20.47        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-64QAM   | L       | Outer_Full      | 21.23          | 20.38        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-256QAM  | L       | Inner_1RB_Left  | 19.23          | 18.38        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-256QAM  | L       | Inner_1RB_Right | 19.22          | 18.37        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-256QAM  | L       | Outer_Full      | 18.58          | 17.73        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-PI2BPSK | M       | Inner_1RB_Left  | 23.63          | 22.78        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-PI2BPSK | M       | Inner_1RB_Right | 23.67          | 22.82        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-PI2BPSK | M       | Outer_Full      | 23.12          | 22.27        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-QPSK    | M       | Inner_1RB_Left  | 23.51          | 22.66        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-QPSK    | M       | Inner_1RB_Right | 23.57          | 22.72        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-QPSK    | M       | Outer_Full      | 22.59          | 21.74        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-16QAM   | M       | Inner_1RB_Left  | 22.54          | 21.69        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-16QAM   | M       | Inner_1RB_Right | 22.6           | 21.75        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-16QAM   | M       | Outer_Full      | 21.68          | 20.83        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-64QAM   | M       | Inner_1RB_Left  | 21.34          | 20.49        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-64QAM   | M       | Inner_1RB_Right | 21.36          | 20.51        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-64QAM   | M       | Outer_Full      | 21.14          | 20.29        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-256QAM  | M       | Inner_1RB_Left  | 18.54          | 17.69        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-256QAM  | M       | Inner_1RB_Right | 18.57          | 17.72        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-256QAM  | M       | Outer_Full      | 19.08          | 18.23        | 34.77 | PASS    |
| N12  | 15  | 5         | DFT-PI2BPSK | H       | Inner_1RB_Left  | 23.54          | 22.69        | 34.77 | PASS    |



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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|     |    |    |             |   |                 |       |       |       |      |
|-----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N12 | 15 | 5  | DFT-PI2BPSK | H | Inner_1RB_Right | 23.53 | 22.68 | 34.77 | PASS |
| N12 | 15 | 5  | DFT-PI2BPSK | H | Outer_Full      | 23.03 | 22.18 | 34.77 | PASS |
| N12 | 15 | 5  | DFT-QPSK    | H | Inner_1RB_Left  | 23.44 | 22.59 | 34.77 | PASS |
| N12 | 15 | 5  | DFT-QPSK    | H | Inner_1RB_Right | 23.42 | 22.57 | 34.77 | PASS |
| N12 | 15 | 5  | DFT-QPSK    | H | Outer_Full      | 22.62 | 21.77 | 34.77 | PASS |
| N12 | 15 | 5  | DFT-16QAM   | H | Inner_1RB_Left  | 22.56 | 21.71 | 34.77 | PASS |
| N12 | 15 | 5  | DFT-16QAM   | H | Inner_1RB_Right | 22.45 | 21.6  | 34.77 | PASS |
| N12 | 15 | 5  | DFT-16QAM   | H | Outer_Full      | 21.61 | 20.76 | 34.77 | PASS |
| N12 | 15 | 5  | DFT-64QAM   | H | Inner_1RB_Left  | 21.32 | 20.47 | 34.77 | PASS |
| N12 | 15 | 5  | DFT-64QAM   | H | Inner_1RB_Right | 21.24 | 20.39 | 34.77 | PASS |
| N12 | 15 | 5  | DFT-64QAM   | H | Outer_Full      | 21.09 | 20.24 | 34.77 | PASS |
| N12 | 15 | 5  | DFT-256QAM  | H | Inner_1RB_Left  | 19.36 | 18.51 | 34.77 | PASS |
| N12 | 15 | 5  | DFT-256QAM  | H | Inner_1RB_Right | 19.25 | 18.4  | 34.77 | PASS |
| N12 | 15 | 5  | DFT-256QAM  | H | Outer_Full      | 18.63 | 17.78 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | L | Inner_1RB_Left  | 23.79 | 22.94 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.57 | 22.72 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | L | Outer_Full      | 23.22 | 22.37 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK    | L | Inner_1RB_Left  | 23.61 | 22.76 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK    | L | Inner_1RB_Right | 23.49 | 22.64 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK    | L | Outer_Full      | 22.76 | 21.91 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM   | L | Inner_1RB_Left  | 22.71 | 21.86 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM   | L | Inner_1RB_Right | 22.48 | 21.63 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM   | L | Outer_Full      | 21.74 | 20.89 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM   | L | Inner_1RB_Left  | 21.49 | 20.64 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM   | L | Inner_1RB_Right | 21.27 | 20.42 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM   | L | Outer_Full      | 21.26 | 20.41 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM  | L | Inner_1RB_Left  | 18.71 | 17.86 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM  | L | Inner_1RB_Right | 18.66 | 17.81 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM  | L | Outer_Full      | 19.17 | 18.32 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | M | Inner_1RB_Left  | 23.8  | 22.95 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.65 | 22.8  | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full      | 23.12 | 22.27 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK    | M | Inner_1RB_Left  | 23.65 | 22.8  | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK    | M | Inner_1RB_Right | 23.55 | 22.7  | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK    | M | Outer_Full      | 22.68 | 21.83 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM   | M | Inner_1RB_Left  | 22.84 | 21.99 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM   | M | Inner_1RB_Right | 22.53 | 21.68 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM   | M | Outer_Full      | 21.65 | 20.8  | 34.77 | PASS |



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|-----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N12 | 15 | 10 | DFT-64QAM   | M | Inner_1RB_Left  | 21.22 | 20.37 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM   | M | Inner_1RB_Right | 21.24 | 20.39 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM   | M | Outer_Full      | 21.18 | 20.33 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM  | M | Inner_1RB_Left  | 18.69 | 17.84 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM  | M | Inner_1RB_Right | 18.77 | 17.92 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM  | M | Outer_Full      | 18.36 | 17.51 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | H | Inner_1RB_Left  | 23.7  | 22.85 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.61 | 22.76 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | H | Outer_Full      | 23.25 | 22.4  | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK    | H | Inner_1RB_Left  | 23.53 | 22.68 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK    | H | Inner_1RB_Right | 23.46 | 22.61 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK    | H | Outer_Full      | 22.68 | 21.83 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM   | H | Inner_1RB_Left  | 22.58 | 21.73 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM   | H | Inner_1RB_Right | 22.49 | 21.64 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM   | H | Outer_Full      | 21.7  | 20.85 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM   | H | Inner_1RB_Left  | 21.38 | 20.53 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM   | H | Inner_1RB_Right | 21.29 | 20.44 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM   | H | Outer_Full      | 21.23 | 20.38 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM  | H | Inner_1RB_Left  | 18.33 | 17.48 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM  | H | Inner_1RB_Right | 18.45 | 17.6  | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM  | H | Outer_Full      | 18.85 | 18    | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | L | Inner_1RB_Left  | 23.85 | 23    | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.76 | 22.91 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | L | Outer_Full      | 23.41 | 22.56 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK    | L | Inner_1RB_Left  | 23.68 | 22.83 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK    | L | Inner_1RB_Right | 23.64 | 22.79 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK    | L | Outer_Full      | 22.95 | 22.1  | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM   | L | Inner_1RB_Left  | 22.8  | 21.95 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM   | L | Inner_1RB_Right | 22.67 | 21.82 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM   | L | Outer_Full      | 21.96 | 21.11 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM   | L | Inner_1RB_Left  | 21.53 | 20.68 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM   | L | Inner_1RB_Right | 21.38 | 20.53 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM   | L | Outer_Full      | 21.47 | 20.62 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM  | L | Inner_1RB_Left  | 18.86 | 18.01 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM  | L | Inner_1RB_Right | 18.69 | 17.84 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM  | L | Outer_Full      | 19.39 | 18.54 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Inner_1RB_Left  | 23.9  | 23.05 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.71 | 22.86 | 34.77 | PASS |



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| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full      | 23.37 | 22.52 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK    | M | Inner_1RB_Left  | 23.74 | 22.89 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK    | M | Inner_1RB_Right | 23.57 | 22.72 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK    | M | Outer_Full      | 22.92 | 22.07 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM   | M | Inner_1RB_Left  | 22.8  | 21.95 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM   | M | Inner_1RB_Right | 22.68 | 21.83 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM   | M | Outer_Full      | 21.95 | 21.1  | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM   | M | Inner_1RB_Left  | 21.62 | 20.77 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM   | M | Inner_1RB_Right | 21.43 | 20.58 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM   | M | Outer_Full      | 21.45 | 20.6  | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM  | M | Inner_1RB_Left  | 18.78 | 17.93 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM  | M | Inner_1RB_Right | 18.68 | 17.83 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM  | M | Outer_Full      | 19.3  | 18.45 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | H | Inner_1RB_Left  | 23.84 | 22.99 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.67 | 22.82 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | H | Outer_Full      | 23.37 | 22.52 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK    | H | Inner_1RB_Left  | 23.7  | 22.85 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK    | H | Inner_1RB_Right | 23.53 | 22.68 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK    | H | Outer_Full      | 22.89 | 22.04 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM   | H | Inner_1RB_Left  | 22.79 | 21.94 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM   | H | Inner_1RB_Right | 22.56 | 21.71 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM   | H | Outer_Full      | 21.89 | 21.04 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM   | H | Inner_1RB_Left  | 21.55 | 20.7  | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM   | H | Inner_1RB_Right | 21.43 | 20.58 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM   | H | Outer_Full      | 21.4  | 20.55 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM  | H | Inner_1RB_Left  | 18.96 | 18.11 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM  | H | Inner_1RB_Right | 18.78 | 17.93 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM  | H | Outer_Full      | 18.66 | 17.81 | 34.77 | PASS |



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## Peak-to-Average Ratio for SA

### Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config  | DutyCycle | Factor | Result | Limit | Verdict |
|------|-----|-----------|------------|---------|------------|-----------|--------|--------|-------|---------|
| N12  | 15  | 15        | DFT-256QAM | L       | Outer_Full | 100%      | 0.00   | 8.66   | ≤13   | PASS    |
| N12  | 15  | 15        | CP-256QAM  | L       | Outer_Full | 100%      | 0.00   | 9.59   | ≤13   | PASS    |
| N12  | 15  | 15        | DFT-256QAM | M       | Outer_Full | 100%      | 0.00   | 8.84   | ≤13   | PASS    |
| N12  | 15  | 15        | CP-256QAM  | M       | Outer_Full | 100%      | 0.00   | 9.52   | ≤13   | PASS    |
| N12  | 15  | 15        | DFT-256QAM | H       | Outer_Full | 100%      | 0.00   | 8.85   | ≤13   | PASS    |
| N12  | 15  | 15        | CP-256QAM  | H       | Outer_Full | 100%      | 0.00   | 9.38   | ≤13   | PASS    |



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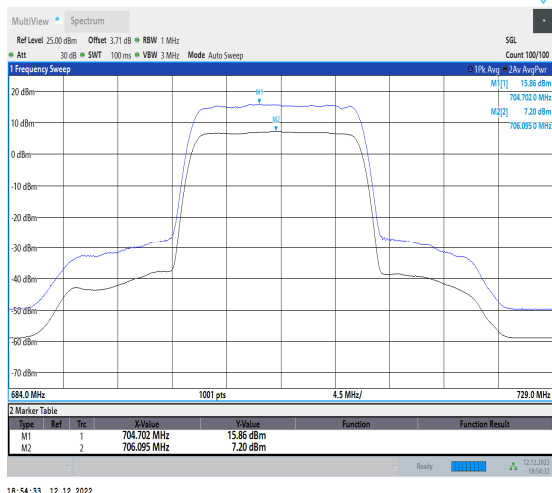
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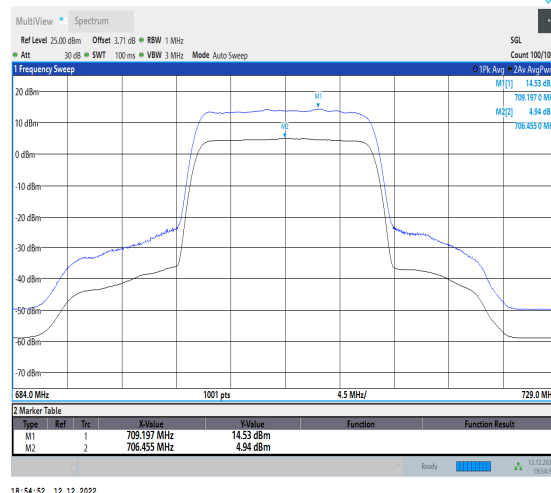
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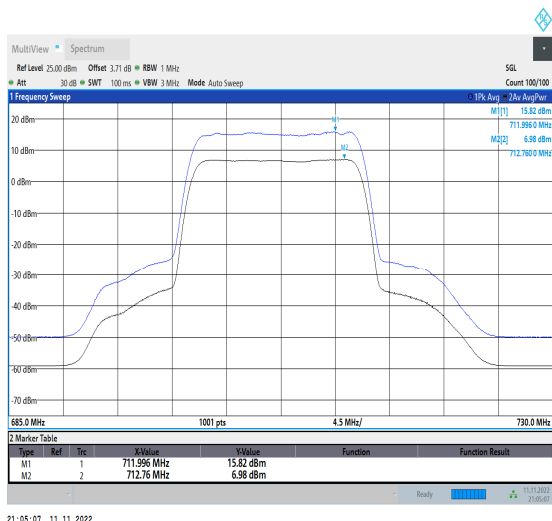
### Test Graphs



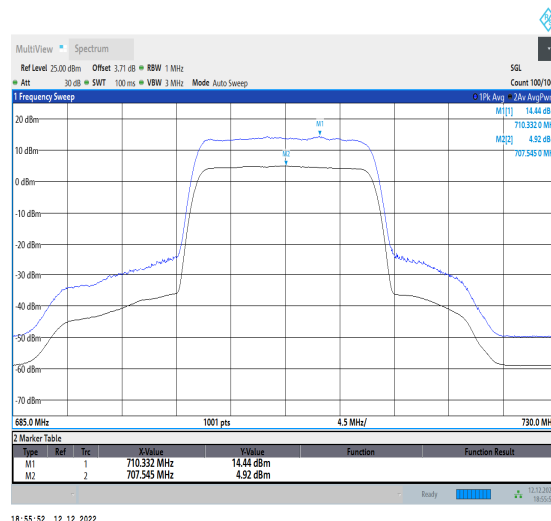
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t1-8.66-100%-0.00-8.66-PASS-≤13



1-N12-15-15-L-2-CP-256QAM-Outer\_Full-79@0-Ant  
t1-9.59-100%-0.00-9.59-PASS-≤13



1-N12-15-15-M-1-DFT-256QAM-Outer\_Full-75@0-A  
nt1-5.61-100%-0.00-5.61-PASS-≤13



1-N12-15-15-M-2-CP-256QAM-Outer\_Full-79@0-Ant  
t1-9.52-100%-0.00-9.52-PASS-≤13



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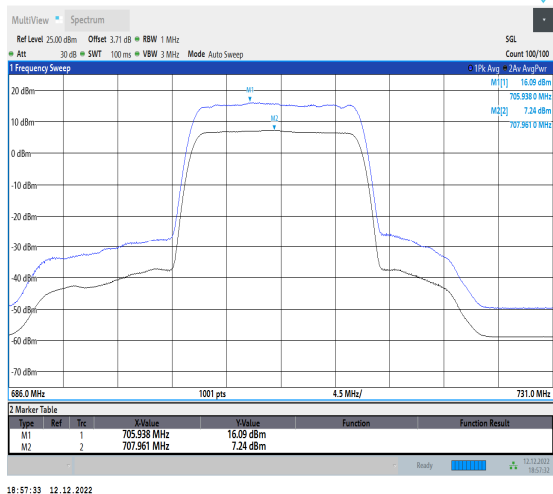
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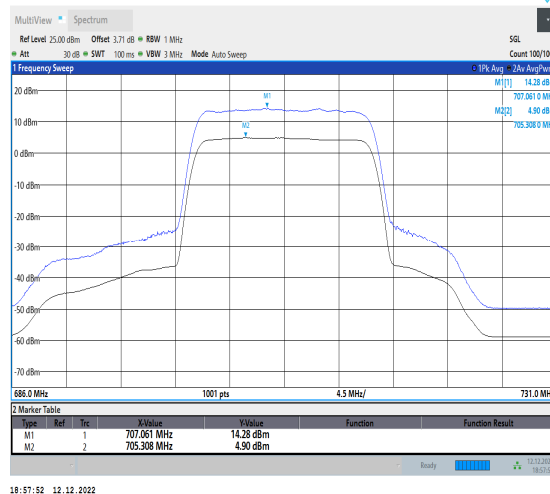
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1-N12-15-15-H-1-DFT-256QAM-Outer\_Full-75@0-An  
t1-8.85-100%-0.00-8.85-PASS-≤13



1-N12-15-15-H-2-CP-256QAM-Outer\_Full-79@0-An  
t1-9.38-100%-0.00-9.38-PASS-≤13



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## Modulation characteristics for SA

### Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config  | Result    | Verdict |
|------|-----|-----------|-------------|---------|------------|-----------|---------|
| N12  | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | see graph | PASS    |
| N12  | 15  | 15        | DFT-QPSK    | M       | Outer_Full | see graph | PASS    |
| N12  | 15  | 15        | DFT-16QAM   | M       | Outer_Full | see graph | PASS    |
| N12  | 15  | 15        | DFT-64QAM   | M       | Outer_Full | see graph | PASS    |
| N12  | 15  | 15        | DFT-256QAM  | M       | Outer_Full | see graph | PASS    |
| N12  | 15  | 15        | CP-QPSK     | M       | Outer_Full | see graph | PASS    |
| N12  | 15  | 15        | CP-16QAM    | M       | Outer_Full | see graph | PASS    |
| N12  | 15  | 15        | CP-64QAM    | M       | Outer_Full | see graph | PASS    |
| N12  | 15  | 15        | CP-256QAM   | M       | Outer_Full | see graph | PASS    |



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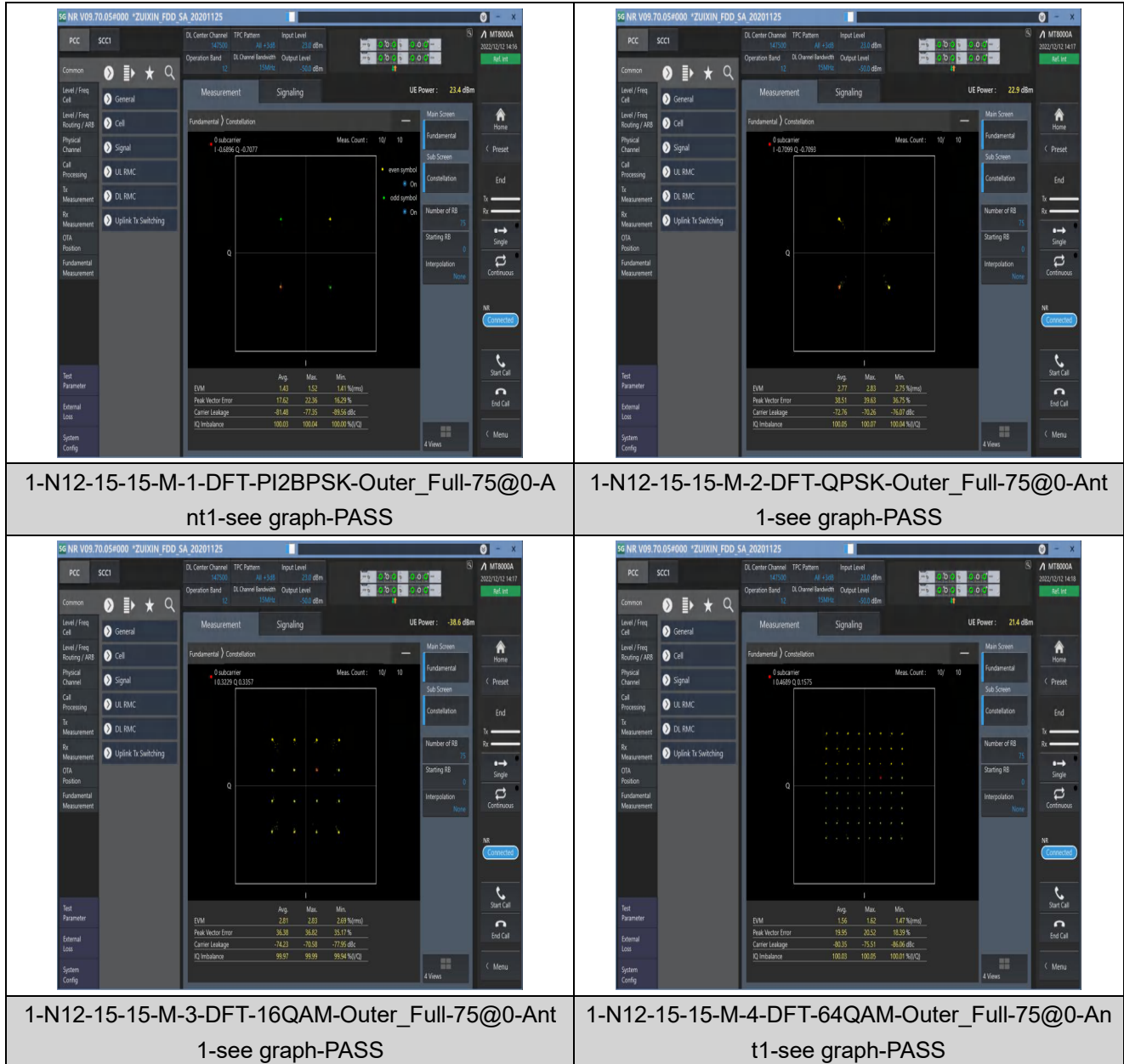
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### Test Graphs



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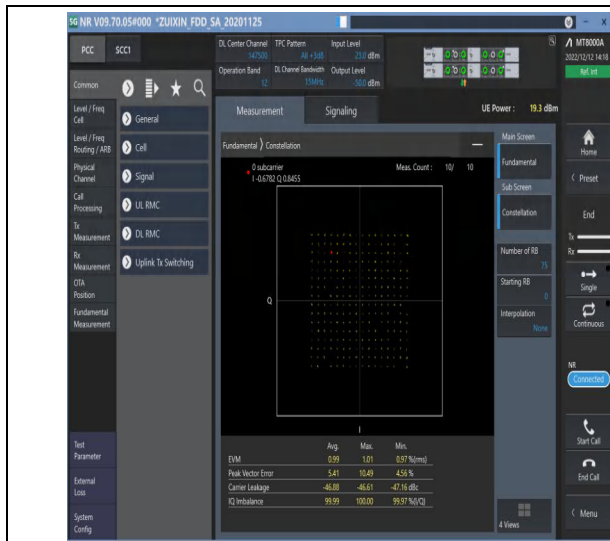
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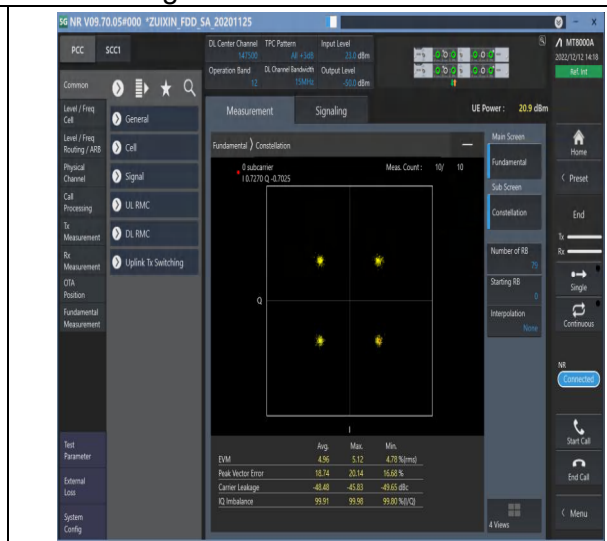
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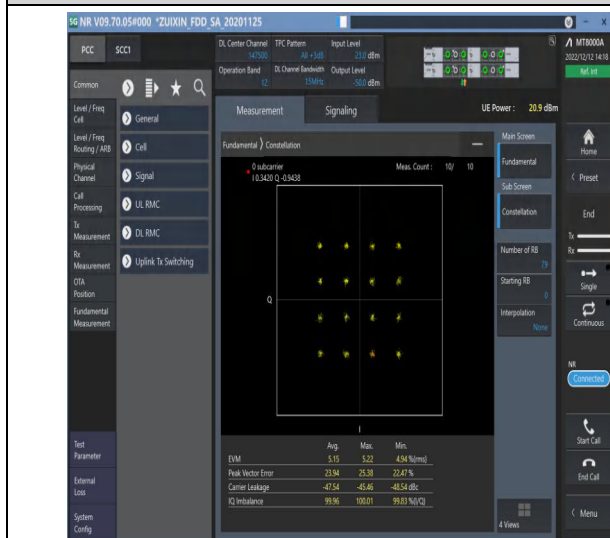
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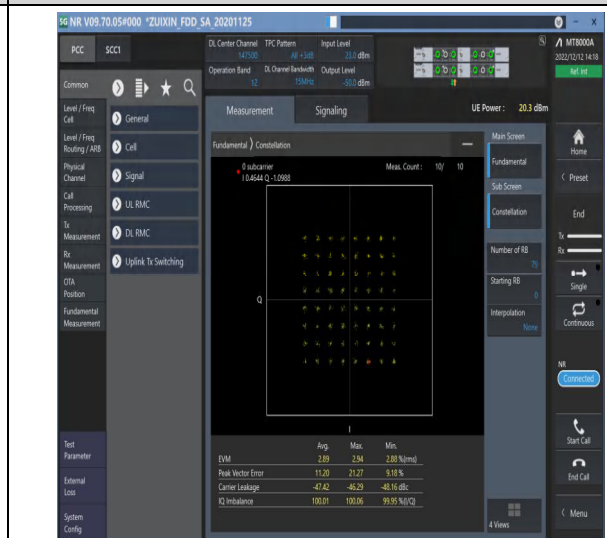
1-N12-15-15-M-5-DFT-256QAM-Outer\_Full-75@0-Ant  
t1-see graph-PASS



1-N12-15-15-M-6-CP-QPSK-Outer\_Full-79@0-Ant1  
-see graph-PASS



1-N12-15-15-M-7-CP-16QAM-Outer\_Full-79@0-Ant1-  
see graph-PASS

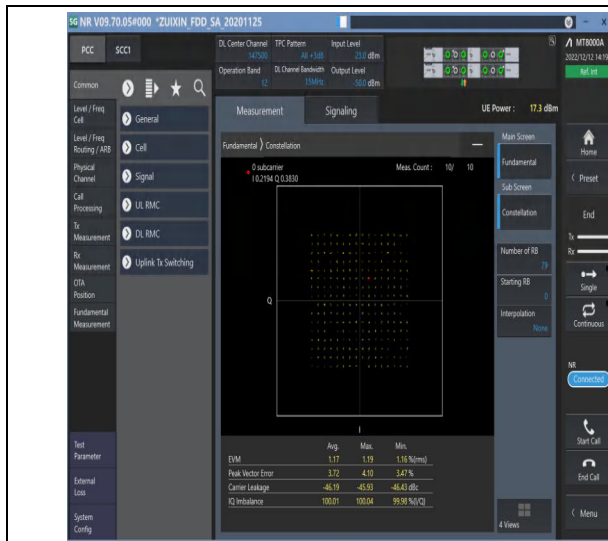


1-N12-15-15-M-8-CP-64QAM-Outer\_Full-79@0-Ant  
1-see graph-PASS

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1-N12-15-15-M-9-CP-256QAM-Outer\_Full-79@0-Ant  
1-see graph-PASS



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## 26dB Bandwidth and Occupied Bandwidth for SA

### Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config  | Result (99%) | Result (26dB) | Verdict |
|------|-----|-----------|-------------|---------|------------|--------------|---------------|---------|
| N12  | 15  | 5         | DFT-QPSK    | L       | Outer_Full | 4.466        | 4.990         | PASS    |
| N12  | 15  | 5         | DFT-PI2BPSK | L       | Outer_Full | 4.468        | 4.990         | PASS    |
| N12  | 15  | 5         | DFT-16QAM   | L       | Outer_Full | 4.477        | 5.130         | PASS    |
| N12  | 15  | 5         | DFT-64QAM   | L       | Outer_Full | 4.485        | 4.950         | PASS    |
| N12  | 15  | 5         | DFT-256QAM  | L       | Outer_Full | 4.48         | 4.980         | PASS    |
| N12  | 15  | 5         | CP-QPSK     | L       | Outer_Full | 4.489        | 5.100         | PASS    |
| N12  | 15  | 5         | CP-16QAM    | L       | Outer_Full | 4.495        | 5.040         | PASS    |
| N12  | 15  | 5         | CP-64QAM    | L       | Outer_Full | 4.478        | 5.060         | PASS    |
| N12  | 15  | 5         | CP-256QAM   | L       | Outer_Full | 4.488        | 5.120         | PASS    |
| N12  | 15  | 5         | DFT-QPSK    | M       | Outer_Full | 4.468        | 4.920         | PASS    |
| N12  | 15  | 5         | DFT-PI2BPSK | M       | Outer_Full | 4.469        | 5.110         | PASS    |
| N12  | 15  | 5         | DFT-16QAM   | M       | Outer_Full | 4.482        | 5.120         | PASS    |
| N12  | 15  | 5         | DFT-64QAM   | M       | Outer_Full | 4.475        | 4.860         | PASS    |
| N12  | 15  | 5         | DFT-256QAM  | M       | Outer_Full | 4.463        | 5.040         | PASS    |
| N12  | 15  | 5         | CP-QPSK     | M       | Outer_Full | 4.492        | 5.090         | PASS    |
| N12  | 15  | 5         | CP-16QAM    | M       | Outer_Full | 4.482        | 5.020         | PASS    |
| N12  | 15  | 5         | CP-64QAM    | M       | Outer_Full | 4.488        | 4.950         | PASS    |
| N12  | 15  | 5         | CP-256QAM   | M       | Outer_Full | 4.471        | 5.060         | PASS    |
| N12  | 15  | 5         | DFT-QPSK    | H       | Outer_Full | 4.476        | 4.940         | PASS    |
| N12  | 15  | 5         | DFT-PI2BPSK | H       | Outer_Full | 4.487        | 5.060         | PASS    |
| N12  | 15  | 5         | DFT-16QAM   | H       | Outer_Full | 4.495        | 5.160         | PASS    |
| N12  | 15  | 5         | DFT-64QAM   | H       | Outer_Full | 4.48         | 4.990         | PASS    |
| N12  | 15  | 5         | DFT-256QAM  | H       | Outer_Full | 4.481        | 4.990         | PASS    |
| N12  | 15  | 5         | CP-QPSK     | H       | Outer_Full | 4.476        | 4.990         | PASS    |
| N12  | 15  | 5         | CP-16QAM    | H       | Outer_Full | 4.483        | 5.040         | PASS    |
| N12  | 15  | 5         | CP-64QAM    | H       | Outer_Full | 4.489        | 5.010         | PASS    |
| N12  | 15  | 5         | CP-256QAM   | H       | Outer_Full | 4.482        | 5.000         | PASS    |
| N12  | 15  | 10        | DFT-QPSK    | L       | Outer_Full | 8.931        | 9.560         | PASS    |
| N12  | 15  | 10        | DFT-PI2BPSK | L       | Outer_Full | 8.901        | 9.540         | PASS    |
| N12  | 15  | 10        | DFT-16QAM   | L       | Outer_Full | 8.931        | 9.620         | PASS    |
| N12  | 15  | 10        | DFT-64QAM   | L       | Outer_Full | 8.942        | 9.620         | PASS    |
| N12  | 15  | 10        | DFT-256QAM  | L       | Outer_Full | 8.917        | 9.680         | PASS    |



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|     |    |    |             |   |            |        |        |      |
|-----|----|----|-------------|---|------------|--------|--------|------|
| N12 | 15 | 10 | CP-QPSK     | L | Outer_Full | 9.275  | 10.080 | PASS |
| N12 | 15 | 10 | CP-16QAM    | L | Outer_Full | 9.271  | 10.080 | PASS |
| N12 | 15 | 10 | CP-64QAM    | L | Outer_Full | 9.246  | 10.060 | PASS |
| N12 | 15 | 10 | CP-256QAM   | L | Outer_Full | 9.275  | 10.040 | PASS |
| N12 | 15 | 10 | DFT-QPSK    | M | Outer_Full | 8.909  | 9.600  | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | 8.89   | 9.460  | PASS |
| N12 | 15 | 10 | DFT-16QAM   | M | Outer_Full | 8.924  | 9.560  | PASS |
| N12 | 15 | 10 | DFT-64QAM   | M | Outer_Full | 8.91   | 9.520  | PASS |
| N12 | 15 | 10 | DFT-256QAM  | M | Outer_Full | 8.905  | 9.520  | PASS |
| N12 | 15 | 10 | CP-QPSK     | M | Outer_Full | 9.264  | 9.980  | PASS |
| N12 | 15 | 10 | CP-16QAM    | M | Outer_Full | 9.266  | 9.960  | PASS |
| N12 | 15 | 10 | CP-64QAM    | M | Outer_Full | 9.277  | 9.980  | PASS |
| N12 | 15 | 10 | CP-256QAM   | M | Outer_Full | 9.269  | 9.960  | PASS |
| N12 | 15 | 10 | DFT-QPSK    | H | Outer_Full | 8.904  | 9.720  | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | H | Outer_Full | 8.906  | 9.540  | PASS |
| N12 | 15 | 10 | DFT-16QAM   | H | Outer_Full | 8.929  | 9.640  | PASS |
| N12 | 15 | 10 | DFT-64QAM   | H | Outer_Full | 8.934  | 9.500  | PASS |
| N12 | 15 | 10 | DFT-256QAM  | H | Outer_Full | 8.925  | 9.520  | PASS |
| N12 | 15 | 10 | CP-QPSK     | H | Outer_Full | 9.314  | 10.140 | PASS |
| N12 | 15 | 10 | CP-16QAM    | H | Outer_Full | 9.278  | 10.100 | PASS |
| N12 | 15 | 10 | CP-64QAM    | H | Outer_Full | 9.243  | 9.860  | PASS |
| N12 | 15 | 10 | CP-256QAM   | H | Outer_Full | 9.306  | 10.160 | PASS |
| N12 | 15 | 15 | DFT-QPSK    | L | Outer_Full | 13.405 | 14.340 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | L | Outer_Full | 13.425 | 14.250 | PASS |
| N12 | 15 | 15 | DFT-16QAM   | L | Outer_Full | 13.426 | 14.400 | PASS |
| N12 | 15 | 15 | DFT-64QAM   | L | Outer_Full | 13.394 | 14.280 | PASS |
| N12 | 15 | 15 | DFT-256QAM  | L | Outer_Full | 13.412 | 14.250 | PASS |
| N12 | 15 | 15 | CP-QPSK     | L | Outer_Full | 14.089 | 15.030 | PASS |
| N12 | 15 | 15 | CP-16QAM    | L | Outer_Full | 14.137 | 15.060 | PASS |
| N12 | 15 | 15 | CP-64QAM    | L | Outer_Full | 14.122 | 14.910 | PASS |
| N12 | 15 | 15 | CP-256QAM   | L | Outer_Full | 14.118 | 15.120 | PASS |
| N12 | 15 | 15 | DFT-QPSK    | M | Outer_Full | 13.411 | 14.160 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | 13.43  | 14.310 | PASS |
| N12 | 15 | 15 | DFT-16QAM   | M | Outer_Full | 13.434 | 14.370 | PASS |
| N12 | 15 | 15 | DFT-64QAM   | M | Outer_Full | 13.409 | 14.340 | PASS |
| N12 | 15 | 15 | DFT-256QAM  | M | Outer_Full | 13.462 | 14.400 | PASS |
| N12 | 15 | 15 | CP-QPSK     | M | Outer_Full | 14.075 | 14.970 | PASS |
| N12 | 15 | 15 | CP-16QAM    | M | Outer_Full | 14.123 | 14.850 | PASS |



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|     |    |    |             |   |            |        |        |      |
|-----|----|----|-------------|---|------------|--------|--------|------|
| N12 | 15 | 15 | CP-64QAM    | M | Outer_Full | 14.1   | 14.940 | PASS |
| N12 | 15 | 15 | CP-256QAM   | M | Outer_Full | 14.098 | 15.030 | PASS |
| N12 | 15 | 15 | DFT-QPSK    | H | Outer_Full | 13.435 | 14.220 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | H | Outer_Full | 13.414 | 14.430 | PASS |
| N12 | 15 | 15 | DFT-16QAM   | H | Outer_Full | 13.431 | 14.160 | PASS |
| N12 | 15 | 15 | DFT-64QAM   | H | Outer_Full | 13.422 | 14.280 | PASS |
| N12 | 15 | 15 | DFT-256QAM  | H | Outer_Full | 13.465 | 14.250 | PASS |
| N12 | 15 | 15 | CP-QPSK     | H | Outer_Full | 14.095 | 15.000 | PASS |
| N12 | 15 | 15 | CP-16QAM    | H | Outer_Full | 14.147 | 15.120 | PASS |
| N12 | 15 | 15 | CP-64QAM    | H | Outer_Full | 14.145 | 14.940 | PASS |
| N12 | 15 | 15 | CP-256QAM   | H | Outer_Full | 14.092 | 15.000 | PASS |



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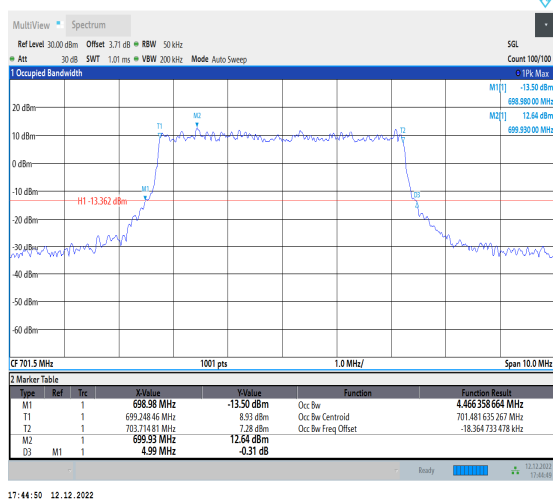
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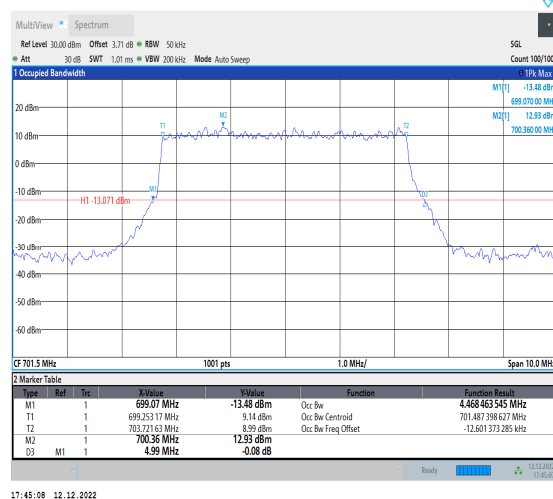
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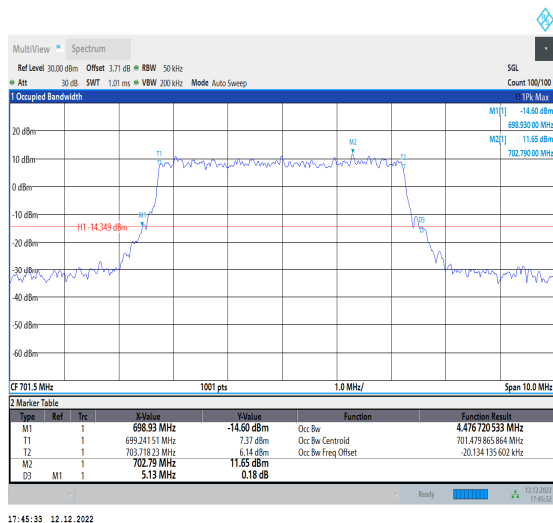
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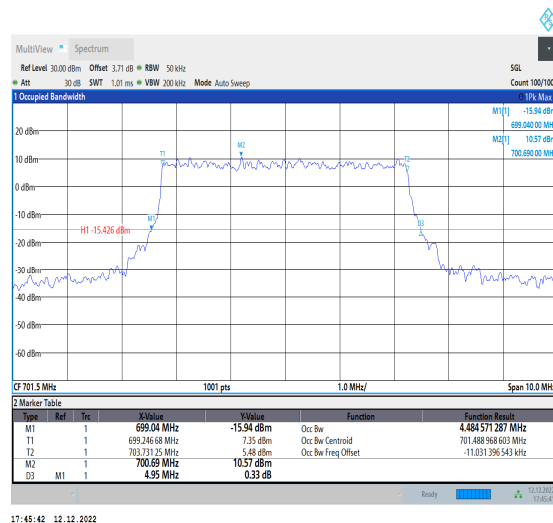
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1-4.468-4.990-≤5-PASS



1-N12-15-5-L-3-DFT-16QAM-Outer\_Full-25@0-Ant1-4  
-4.477-5.130-≤5-PASS



1-N12-15-5-L-4-DFT-64QAM-Outer\_Full-25@0-Ant1-4  
4.485-4.950-≤5-PASS



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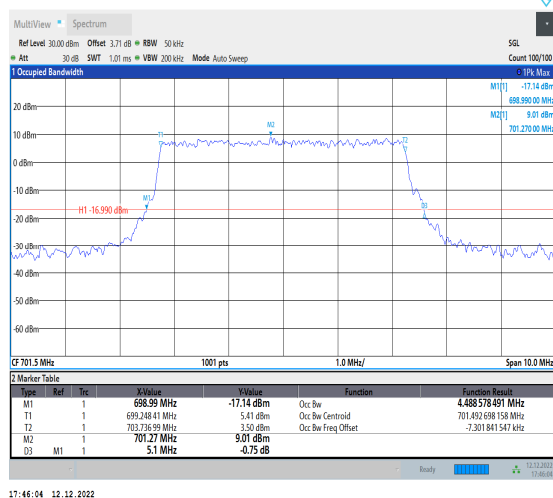
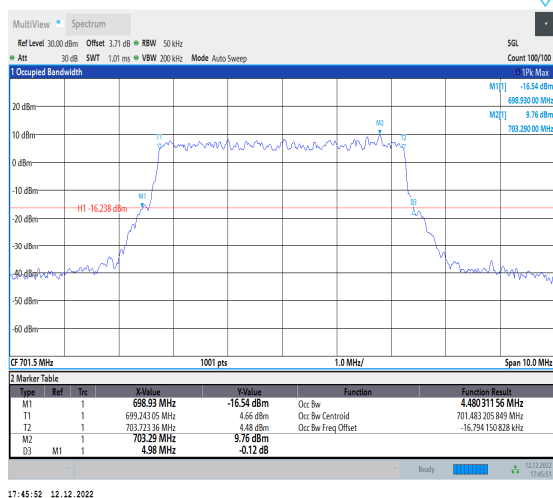
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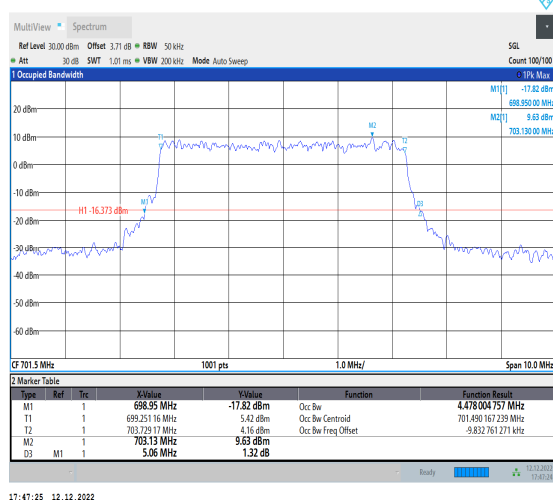
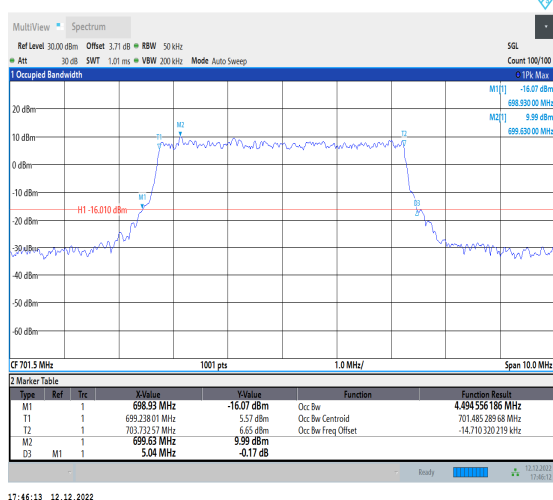
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1-N12-15-5-L-5-DFT-256QAM-Outer\_Full-25@0-Ant  
1-4.48-4.980-≤5-PASS

1-N12-15-5-L-6-CP-QPSK-Outer\_Full-25@0-Ant1-4.  
489-5.100-≤5-PASS



1-N12-15-5-L-7-CP-16QAM-Outer\_Full-25@0-Ant1-  
4.495-5.040-≤5-PASS

1-N12-15-5-L-8-CP-64QAM-Outer\_Full-25@0-Ant1-4  
.478-5.060-≤5-PASS



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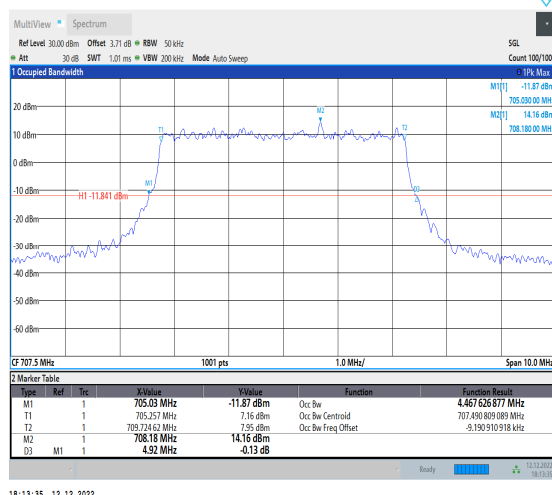
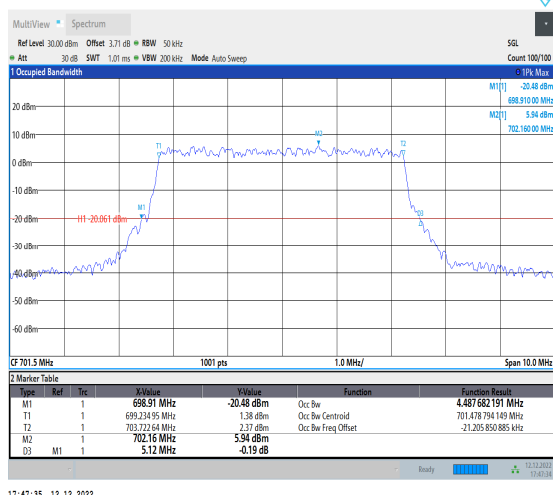
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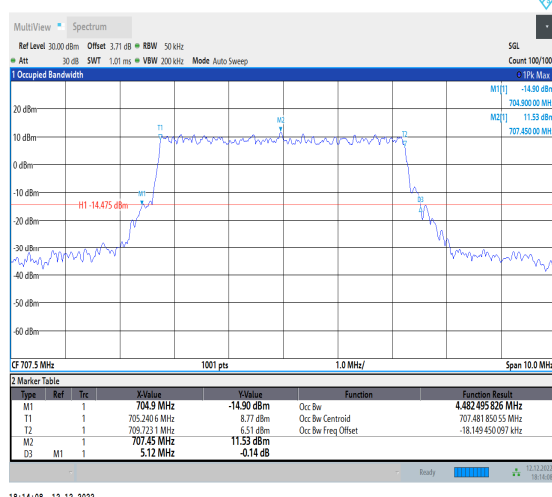
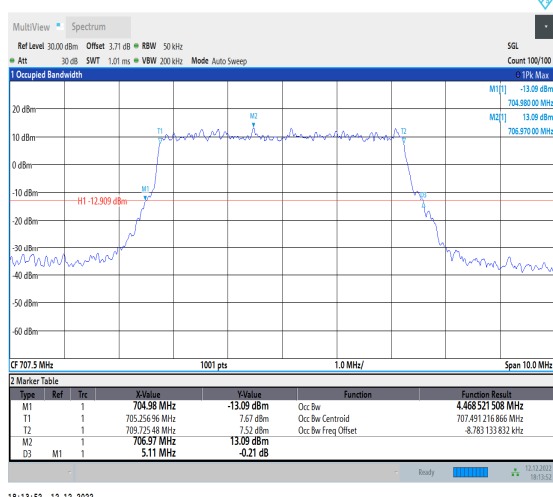
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1-N12-15-5-L-9-CP-256QAM-Outer\_Full-25@0-Ant1  
-4.488-5.120-≤5-PASS

1-N12-15-5-M-1-DFT-QPSK-Outer\_Full-25@0-Ant1  
4.468-4.920-≤5-PASS



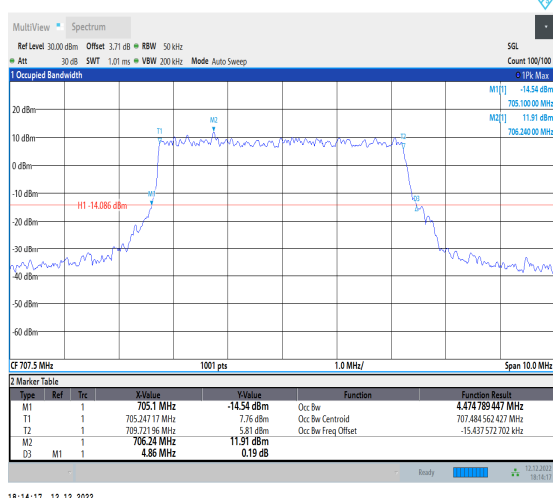
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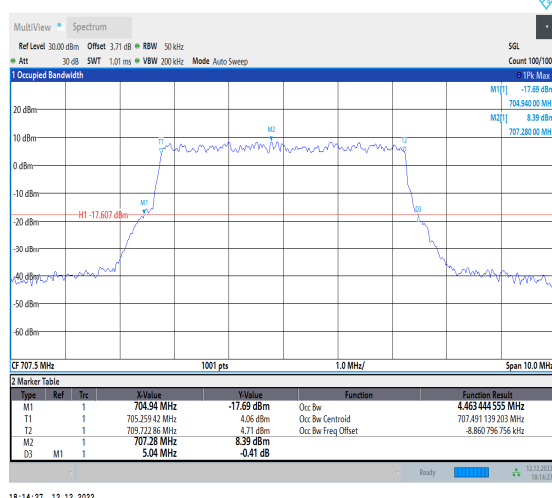
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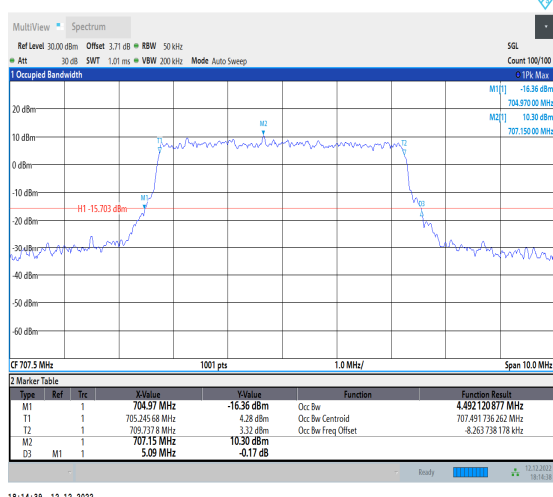
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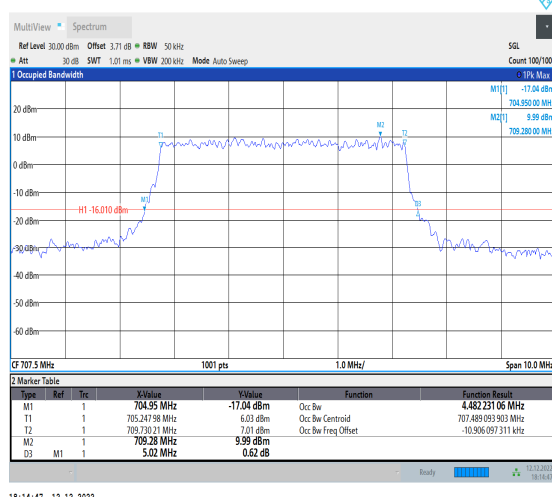
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1-4.463-5.040-≤5-PASS



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18:14:47 12.12.2022

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.492-5.090-≤5-PASS

1-N12-15-5-M-7-CP-16QAM-Outer\_Full-25@0-Ant1-  
4.482-5.020-≤5-PASS



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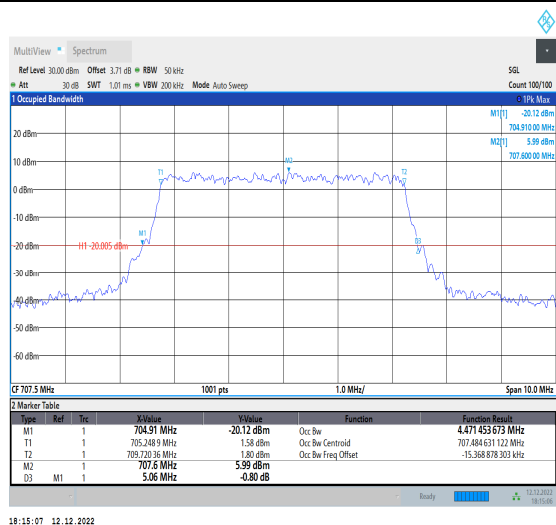
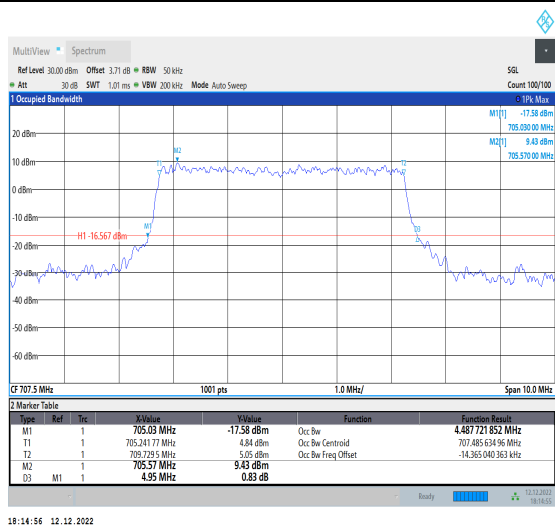
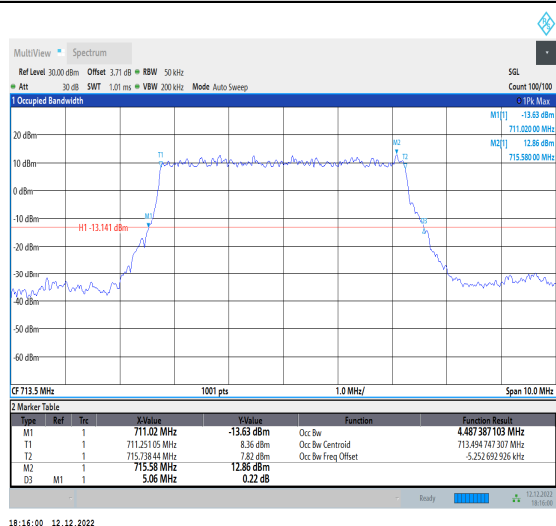
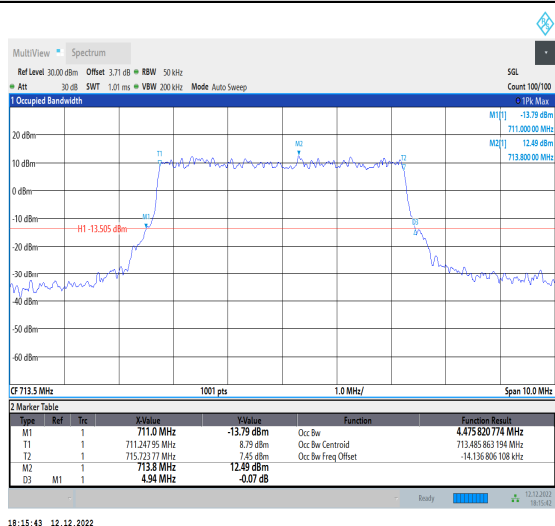
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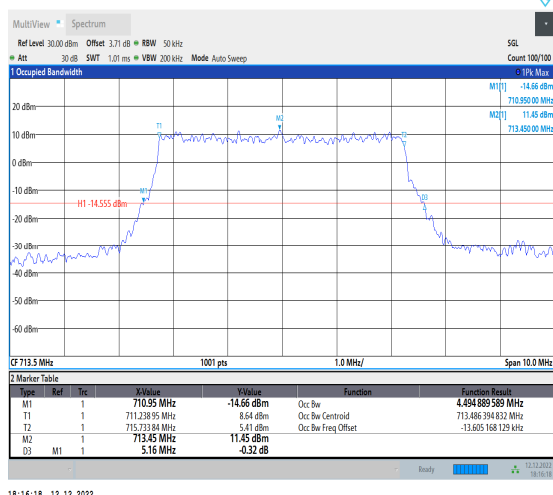
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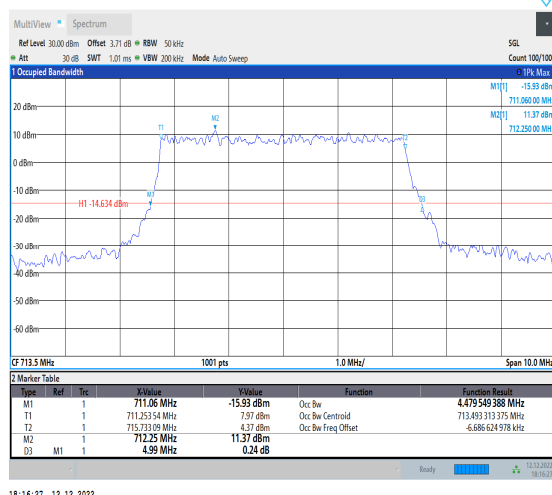
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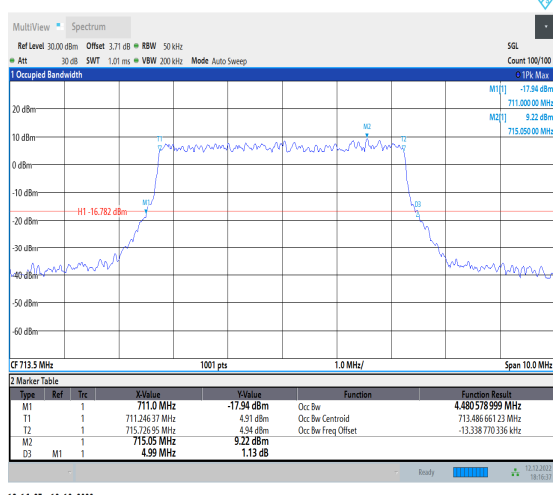
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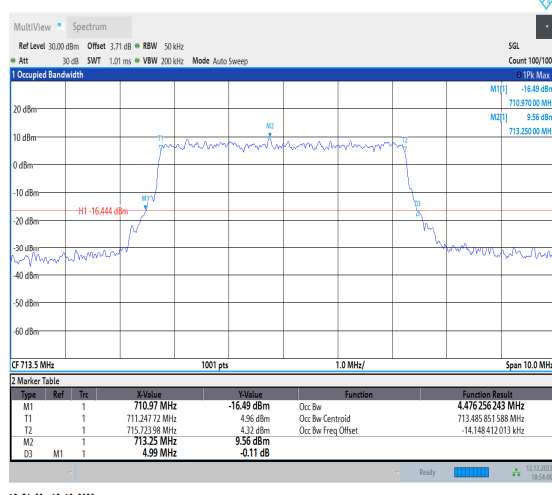
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1-N12-15-5-H-4-DFT-64QAM-Outer\_Full-25@0-Ant1  
-4.48-4.990-≤5-PASS



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18:54:00 12.12.2022

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1-N12-15-5-H-6-CP-QPSK-Outer\_Full-25@0-Ant1-4.  
476-4.990-≤5-PASS



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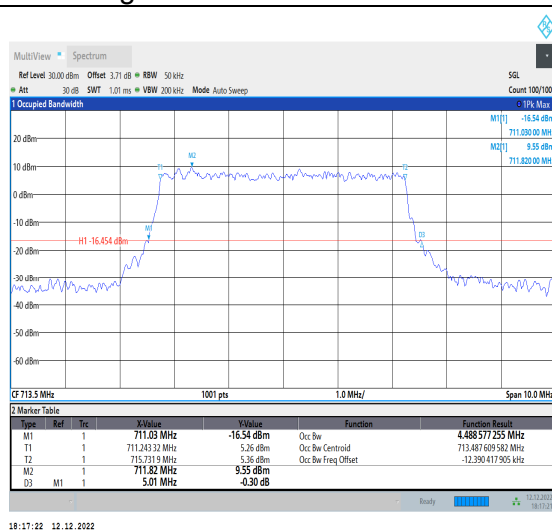
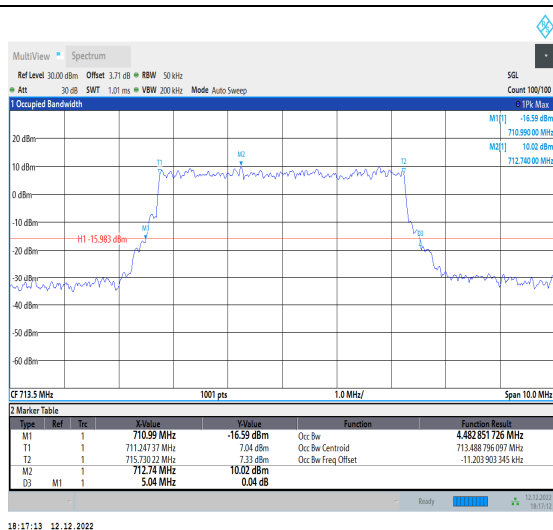
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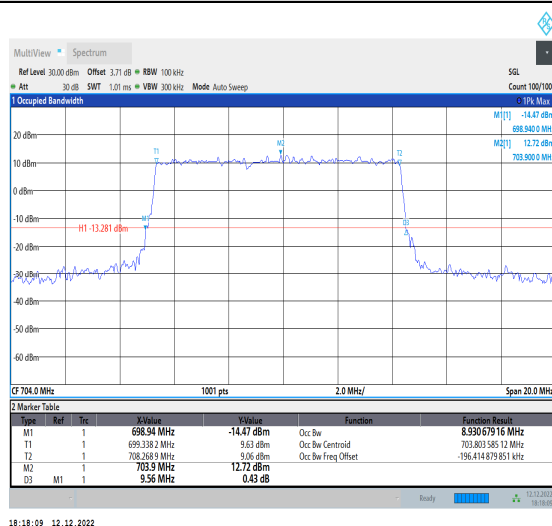
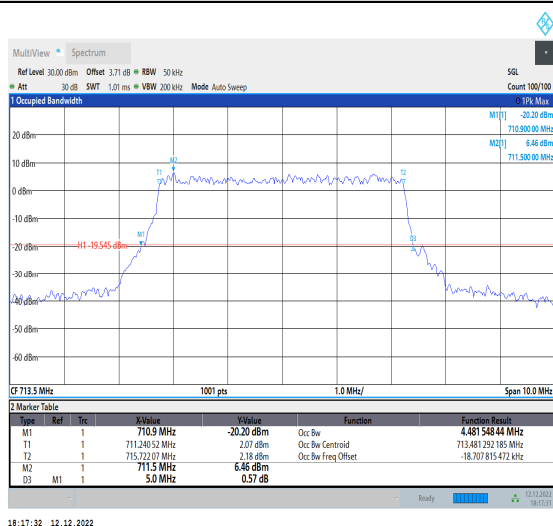
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1-N12-15-5-H-8-CP-64QAM-Outer\_Full-25@0-Ant1-4.489-5.010-≤5-PASS



1-N12-15-5-H-9-CP-256QAM-Outer\_Full-25@0-Ant1-4.482-5.000-≤5-PASS

1-N12-15-10-L-1-DFT-QPSK-Outer\_Full-50@0-Ant1-8.931-9.560-≤10-PASS



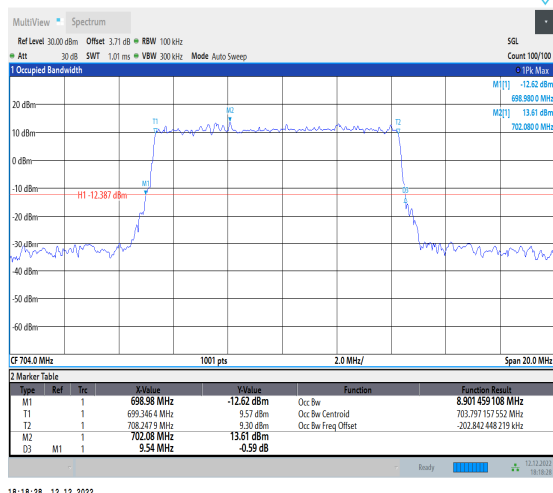
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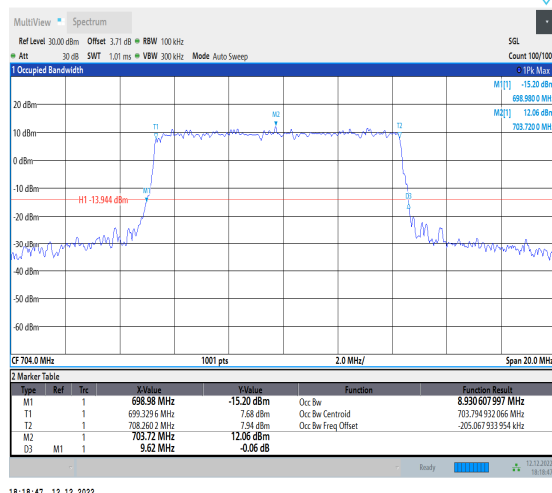
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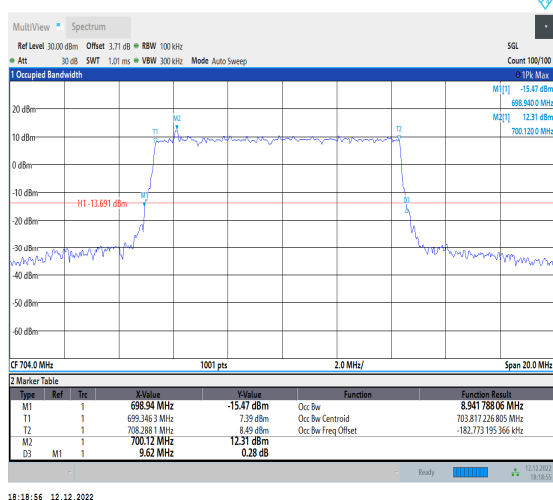
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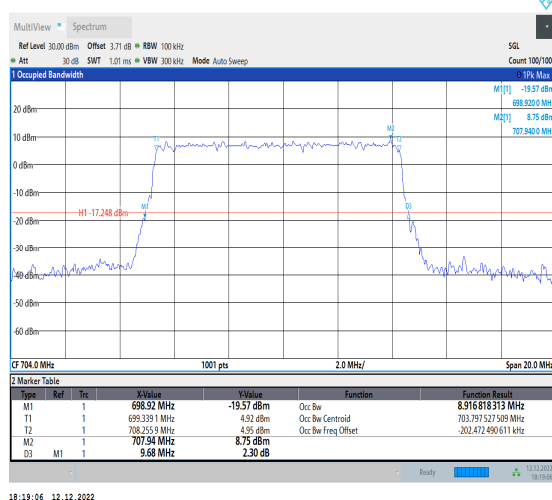
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1-8.931-9.620-≤10-PASS



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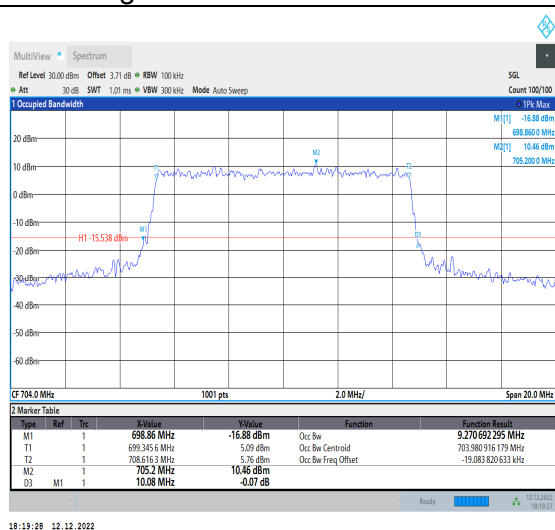
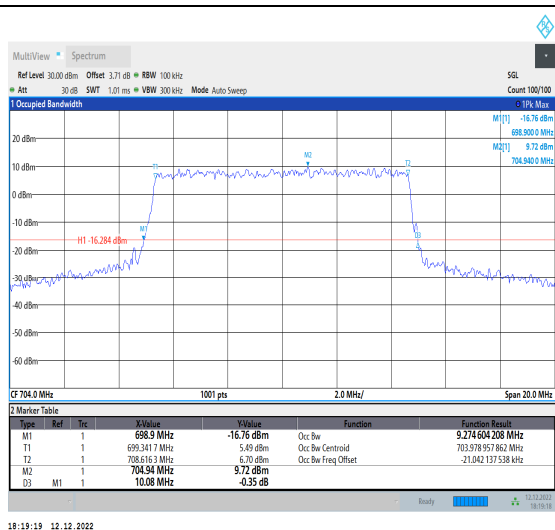


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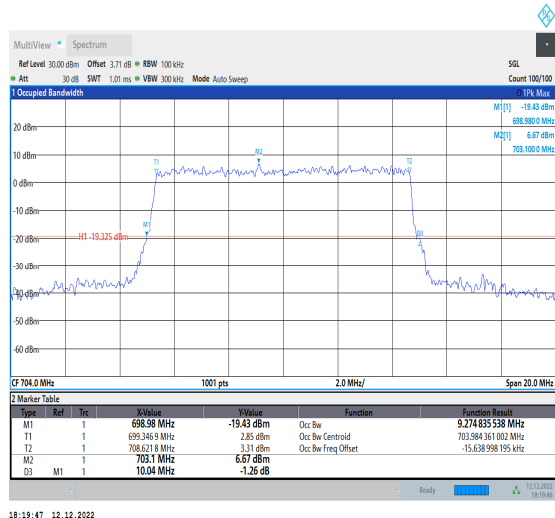
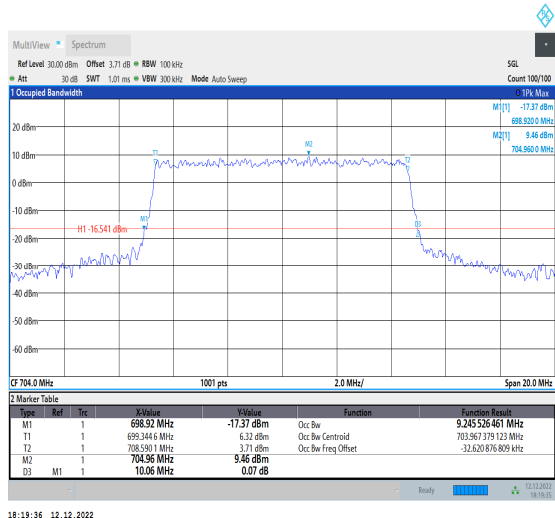
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1-N12-15-10-L-6-CP-QPSK-Outer\_Full-52@0-Ant1-9.275-10.080-≤10-PASS

1-N12-15-10-L-7-CP-16QAM-Outer\_Full-52@0-Ant1-9.271-10.080-≤10-PASS



1-N12-15-10-L-8-CP-64QAM-Outer\_Full-52@0-Ant1-9.246-10.060-≤10-PASS

1-N12-15-10-L-9-CP-256QAM-Outer\_Full-52@0-Ant1-9.275-10.040-≤10-PASS



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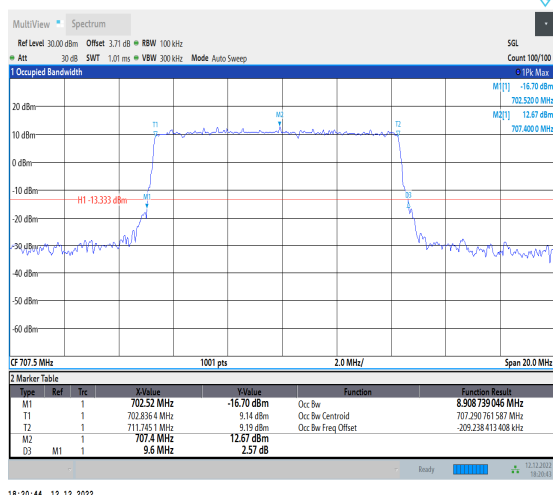
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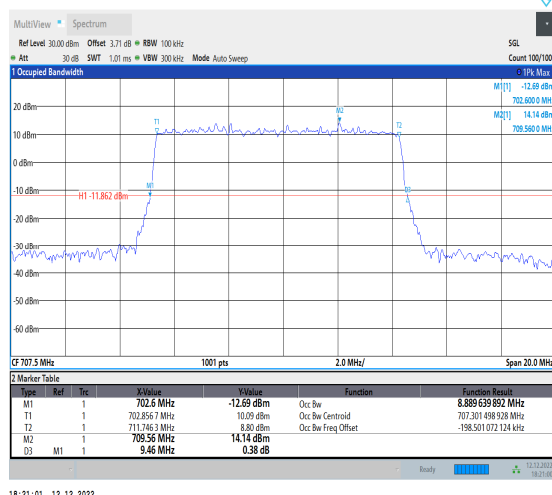
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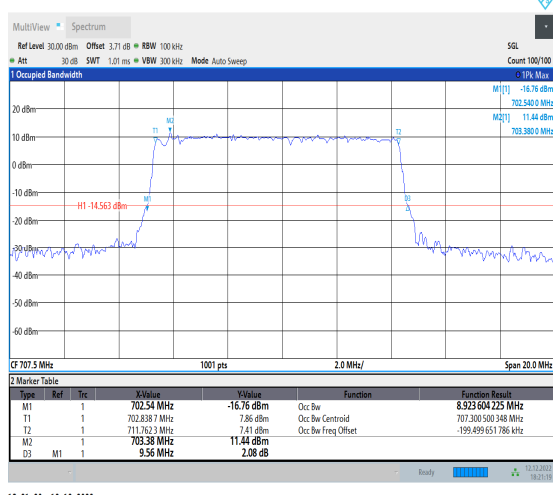
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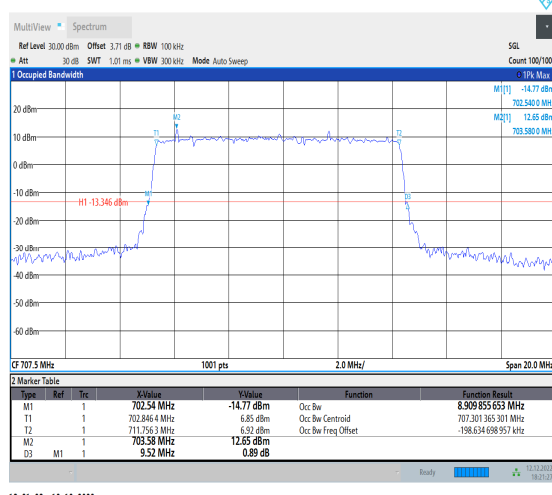
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18:21:28 12.12.2022

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1-N12-15-10-M-4-DFT-64QAM-Outer\_Full-50@0-Ant1  
1-8.91-9.520-≤10-PASS



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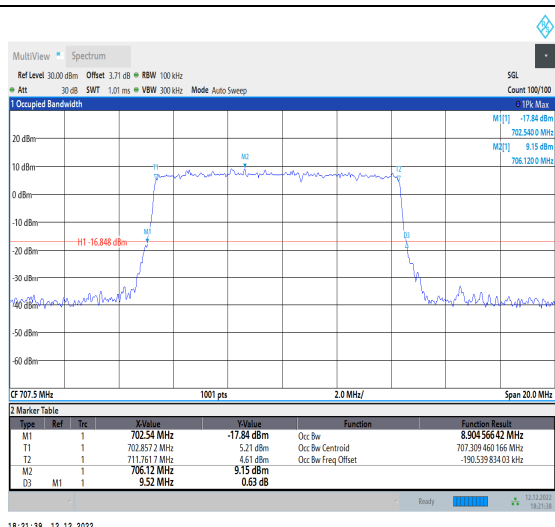
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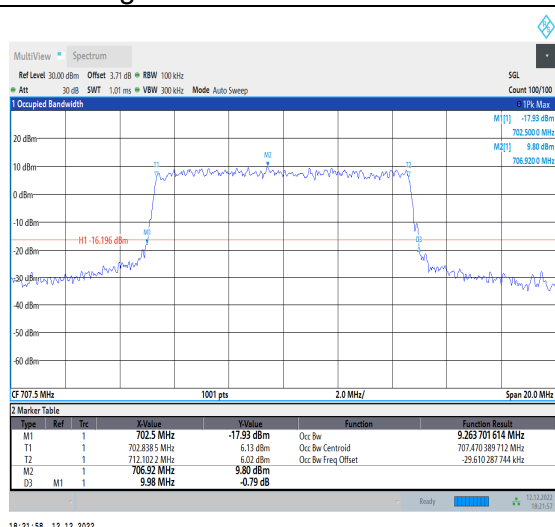
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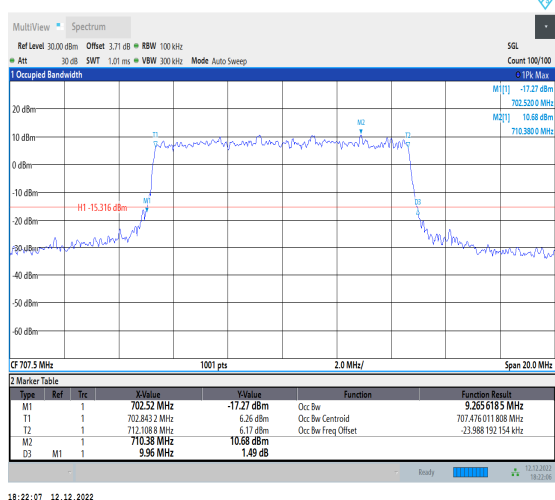
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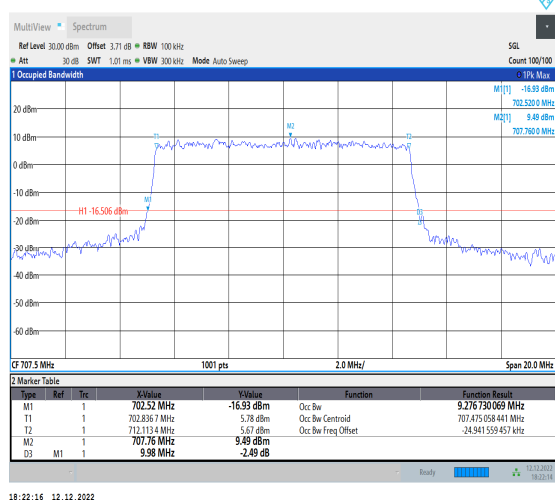
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18:22:07 12.12.2022

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18:22:16 12.12.2022

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-9.277-9.980-≤10-PASS



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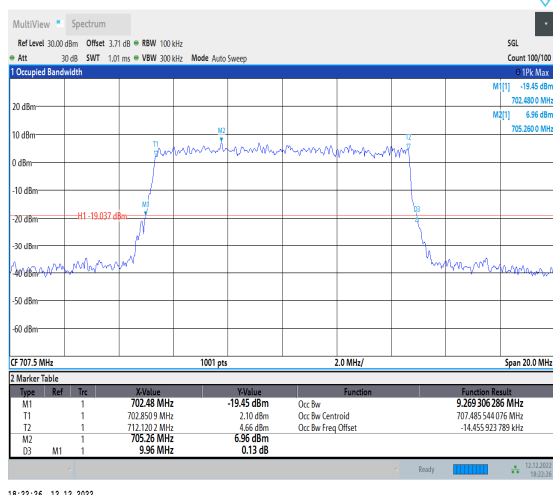
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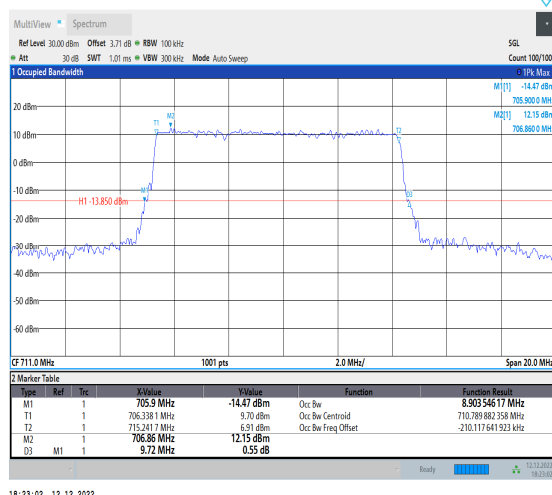
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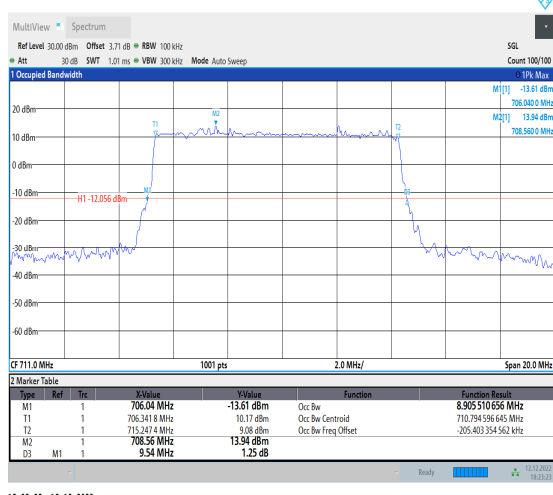
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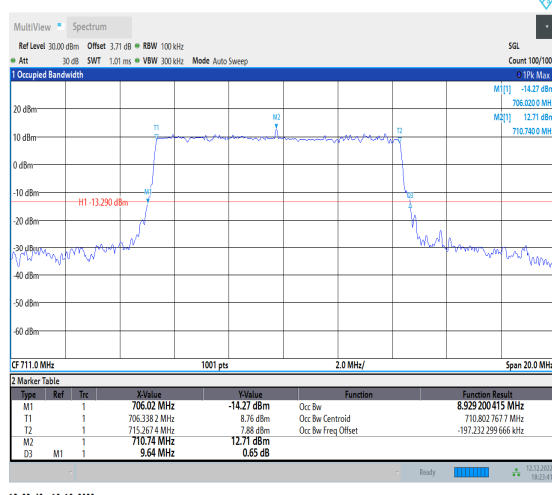
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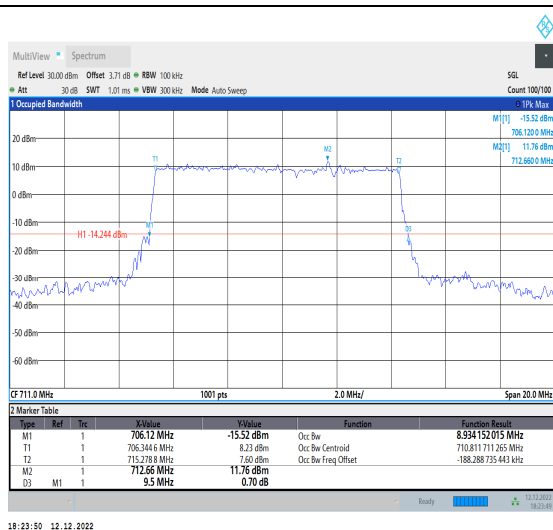
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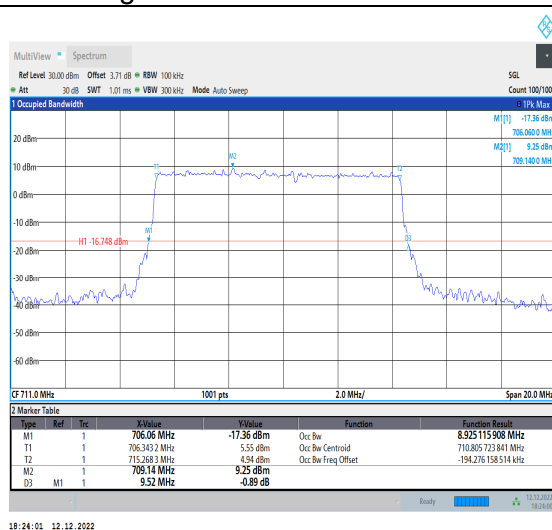
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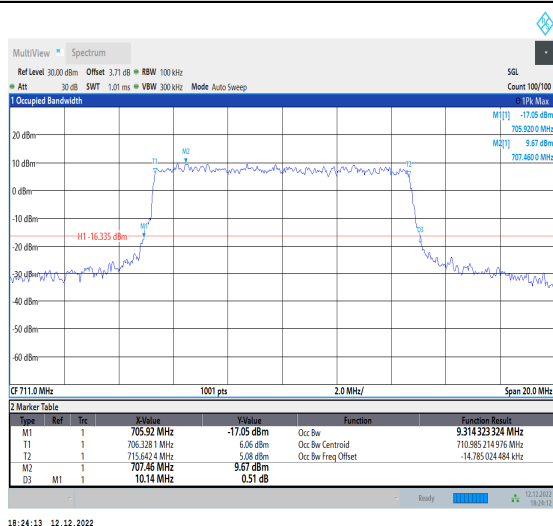
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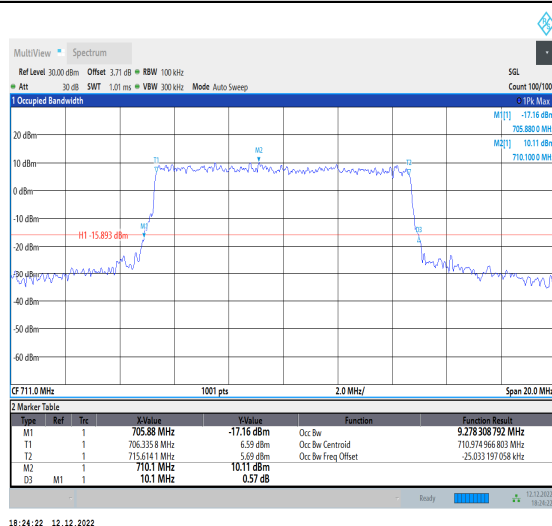
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nt1-8.925-9.520≤10-PASS



1-N12-15-10-H-6-CP-QPSK-Outer\_Full-52@0-Ant1  
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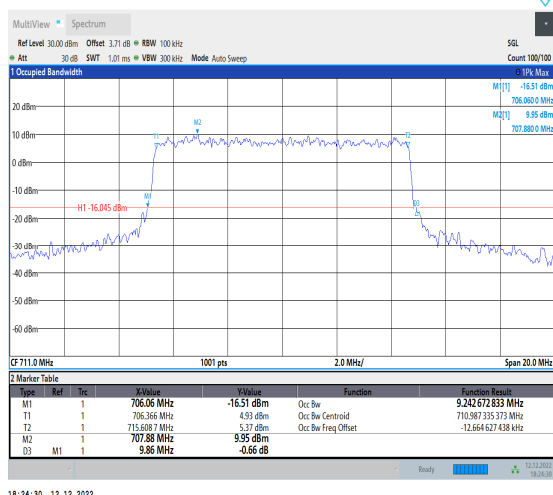
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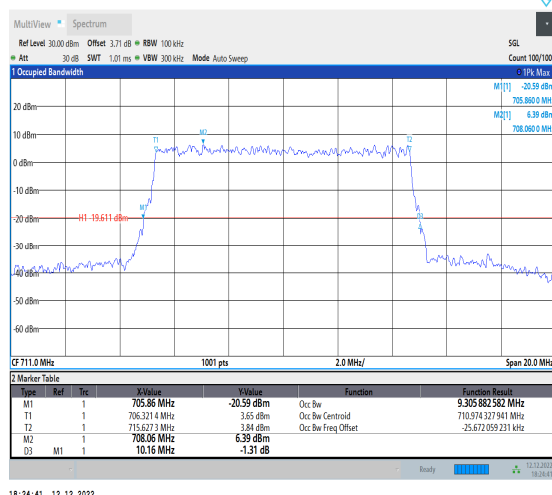
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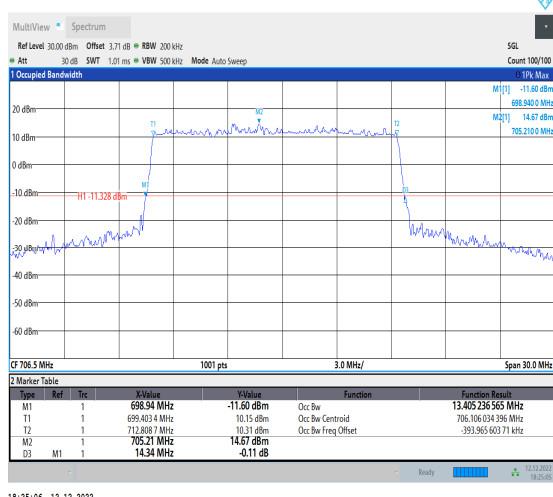
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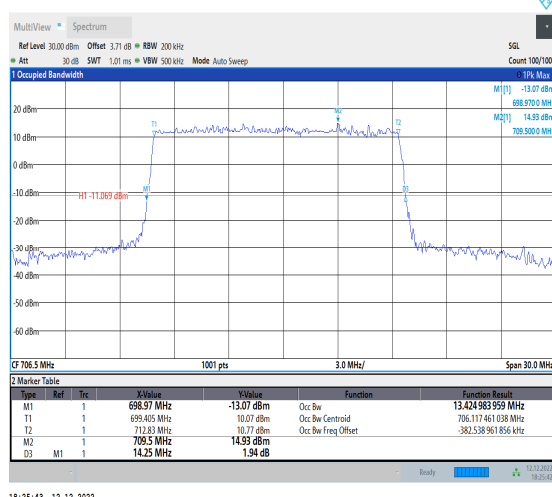
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1-N12-15-10-H-9-CP-256QAM-Outer\_Full-52@0-Ant1  
1-9.306-10.160-≤10-PASS



1-N12-15-15-L-1-DFT-QPSK-Outer\_Full-75@0-Ant1-  
13.405-14.340-≤15-PASS



1-N12-15-15-L-2-DFT-PI2BPSK-Outer\_Full-75@0-Ant1-13.425-14.250-≤15-PASS



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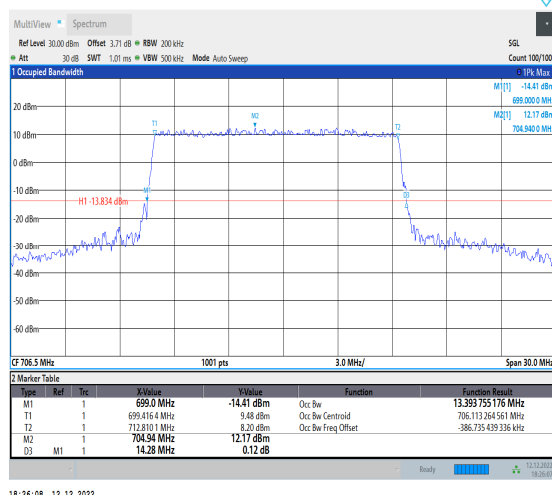
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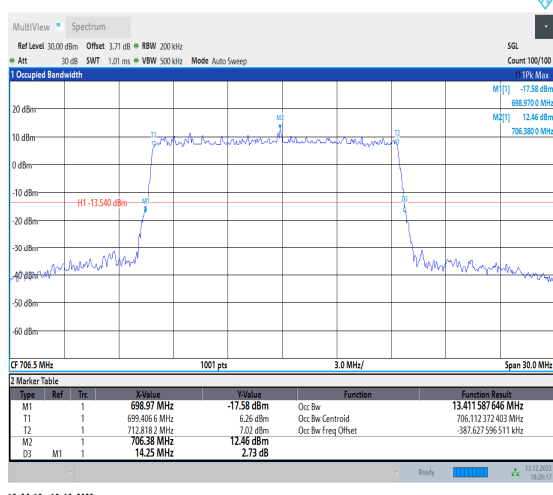
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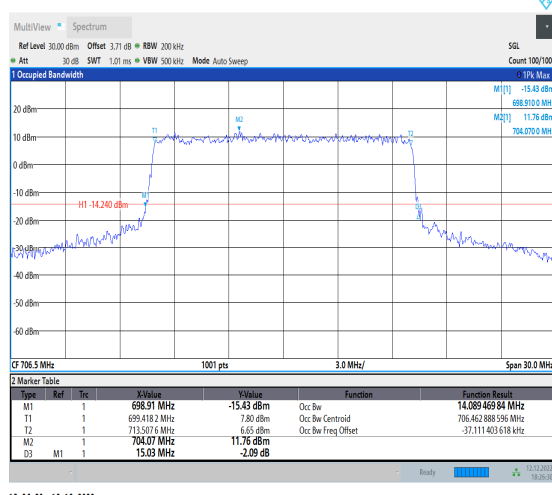
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18:26:30 12.12.2022

1-N12-15-15-L-6-CP-QPSK-Outer\_Full-79@0-Ant1-1  
t1-4.089-15.030-≤15-PASS



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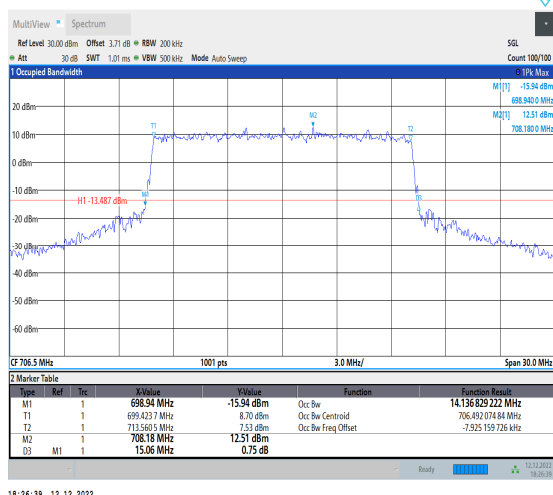
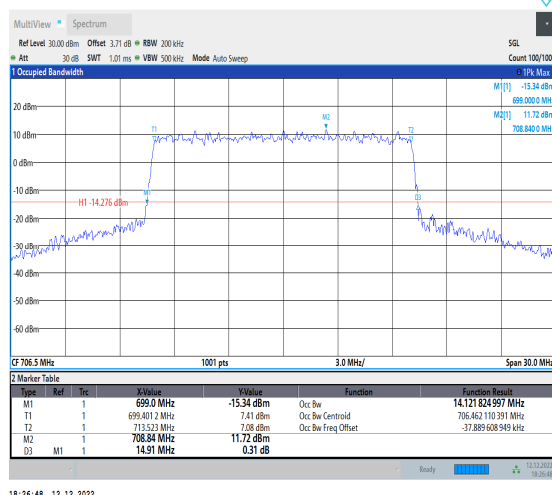
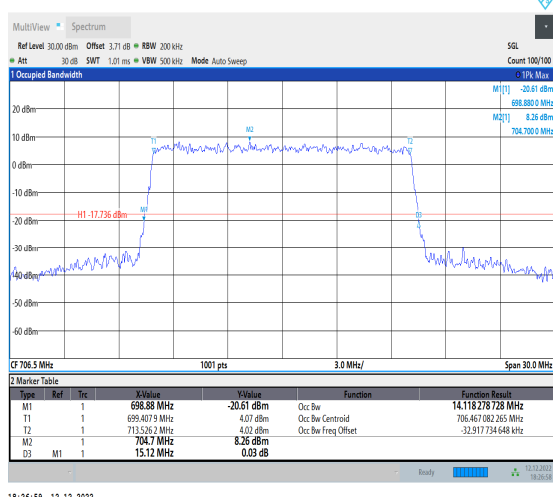
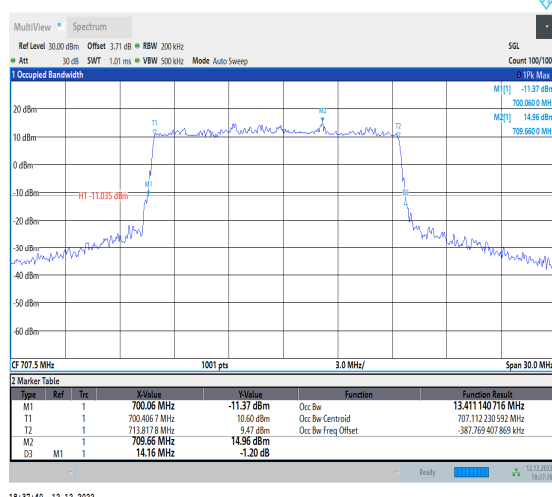
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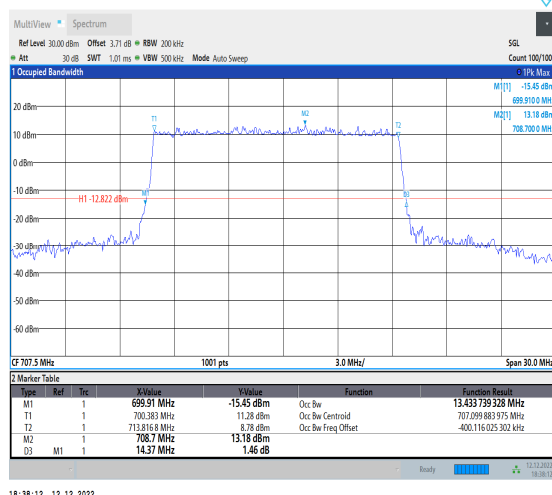
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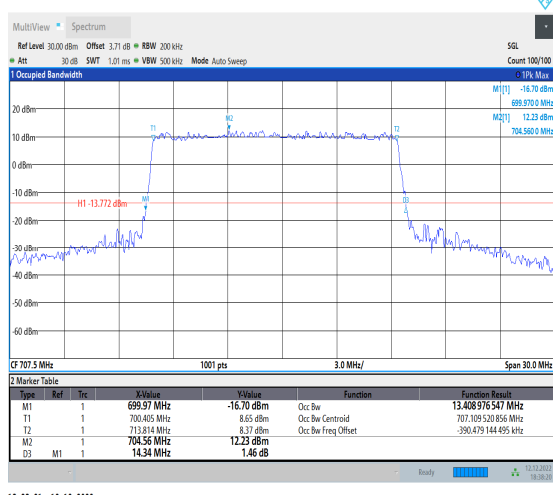
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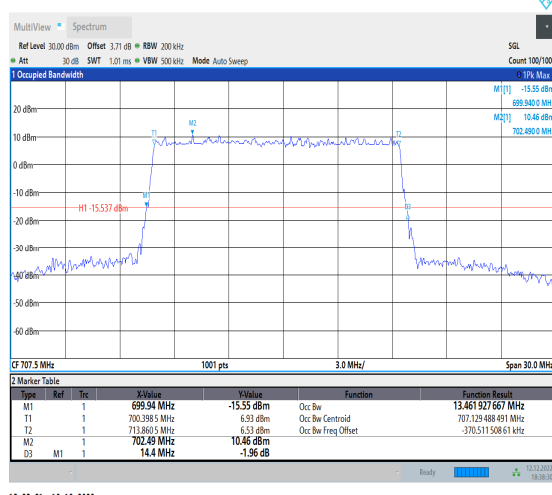
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1-N12-15-15-M-5-DFT-256QAM-Outer\_Full-75@0-A  
nt1-13.462-14.400-≤15-PASS



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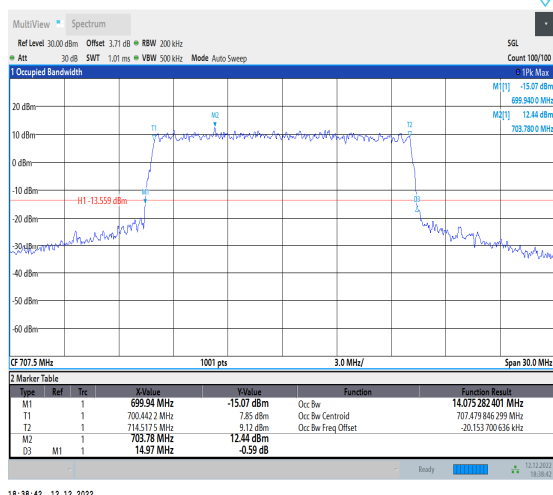
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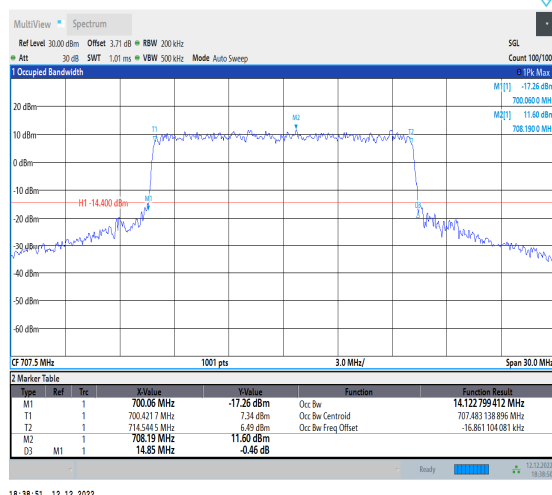
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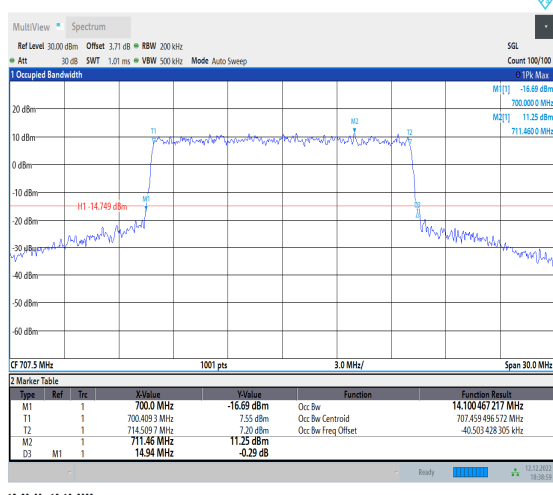
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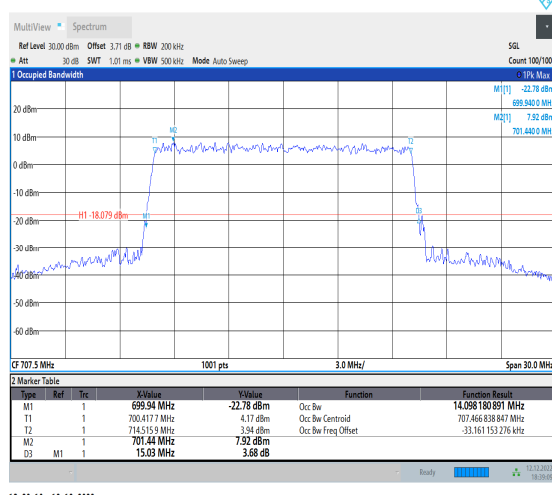
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1-N12-15-15-M-9-CP-256QAM-Outer\_Full-79@0-Ant1-14.098-15.030-≤15-PASS



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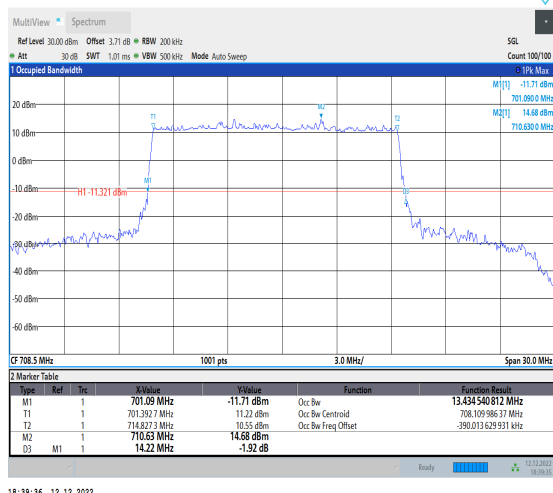
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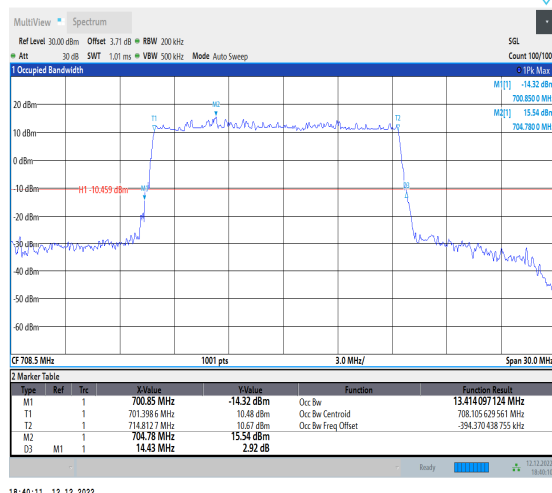
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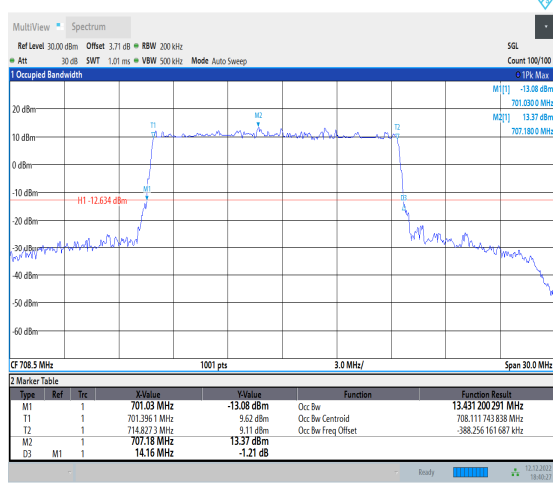
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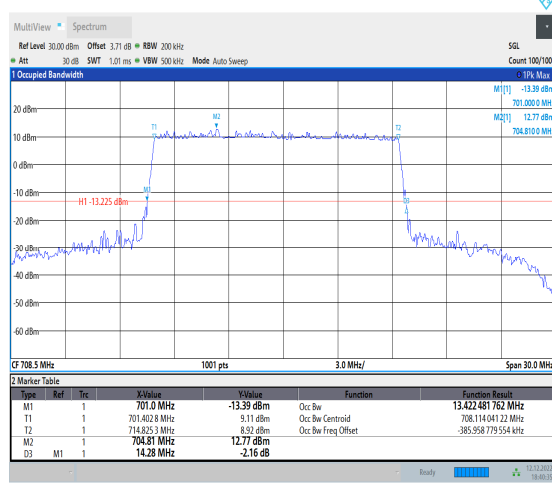
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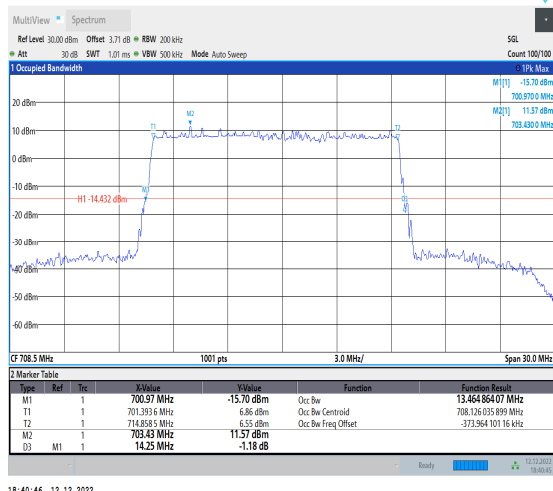
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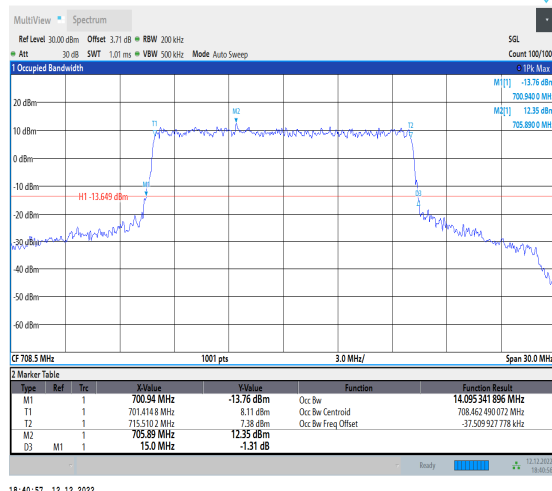
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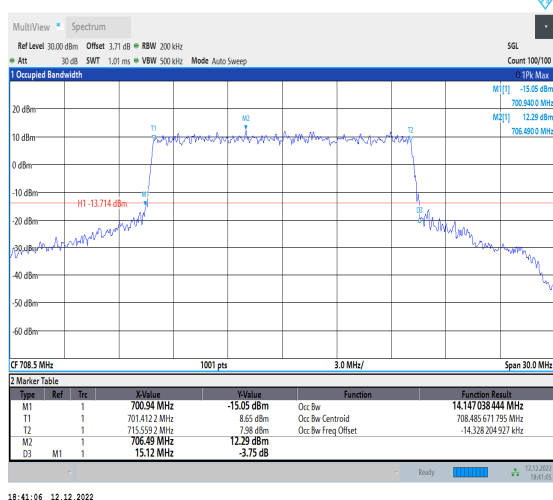
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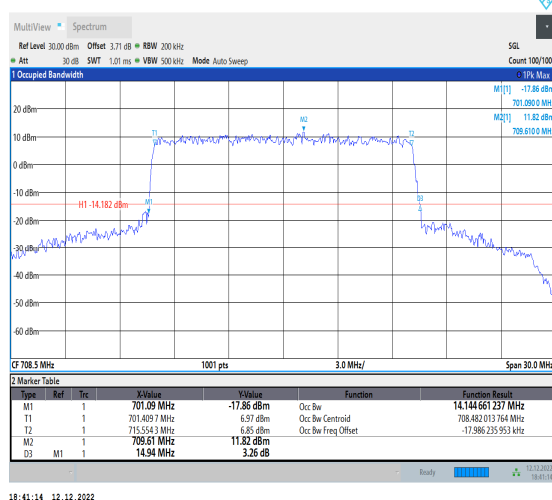
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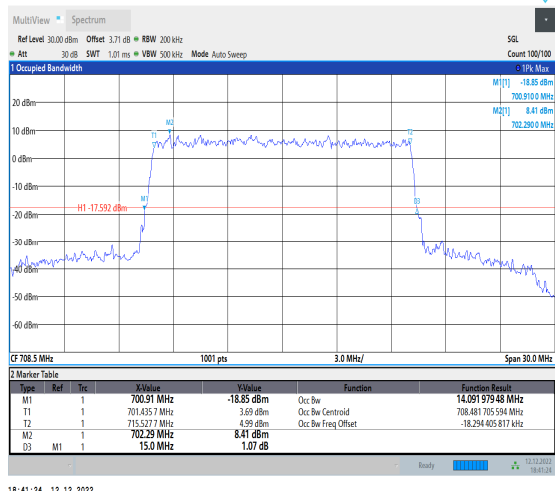
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1-N12-15-15-H-9-CP-256QAM-Outer\_Full-79@0-Ant  
1-14.092-15.000-≤15-PASS



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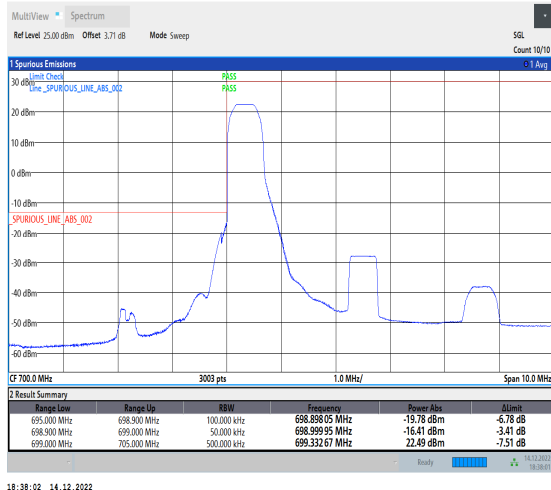
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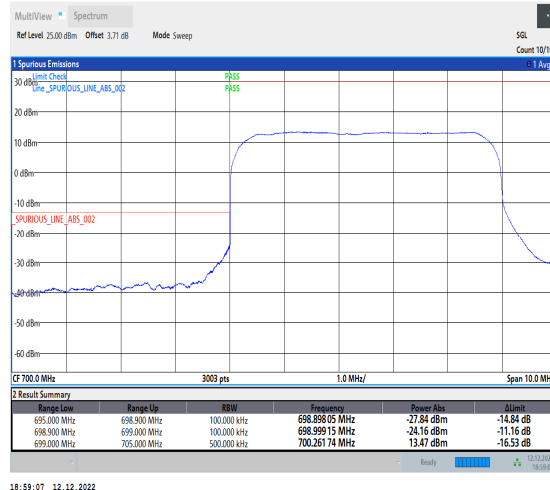
### Band Edge for SA

### Test Graphs



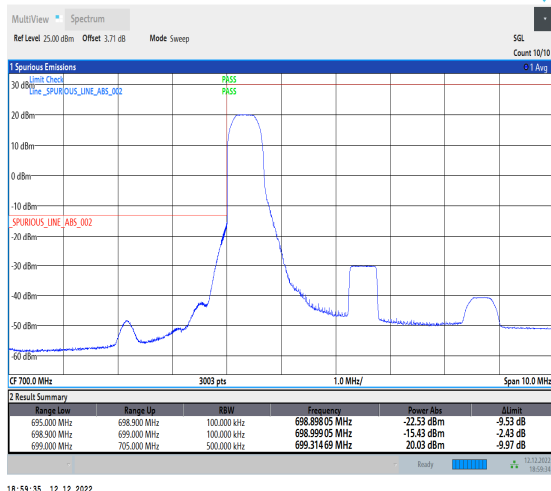
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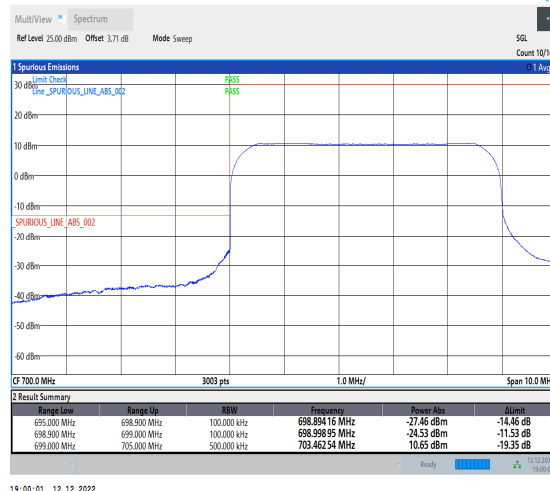
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19:00:01 12.12.2022

1-N12-15-5-L-6-CP-QPSK-Outer\_Full-25@0-A nt1-1--PASS-see graph



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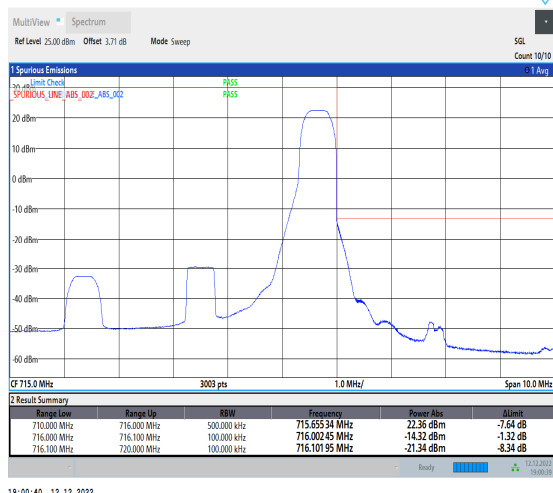
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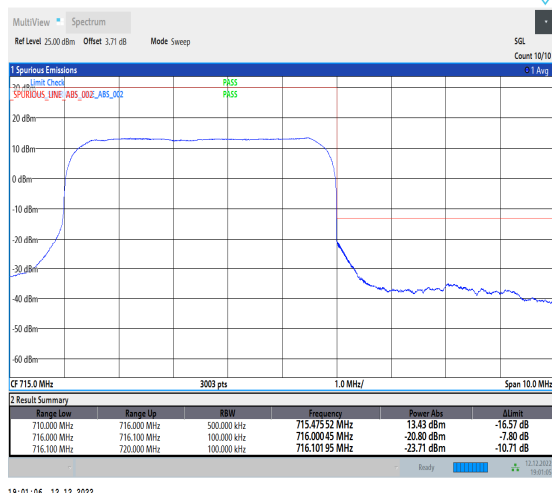
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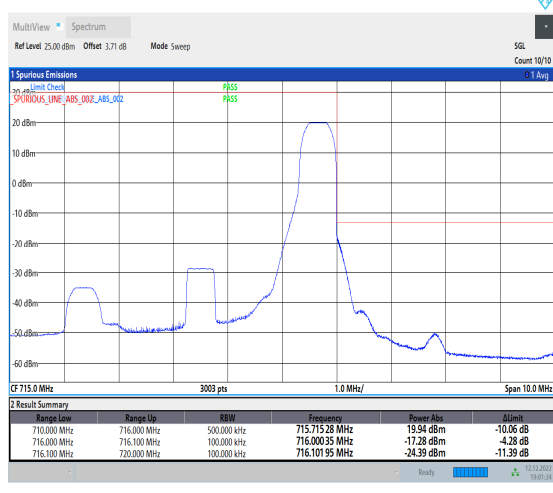
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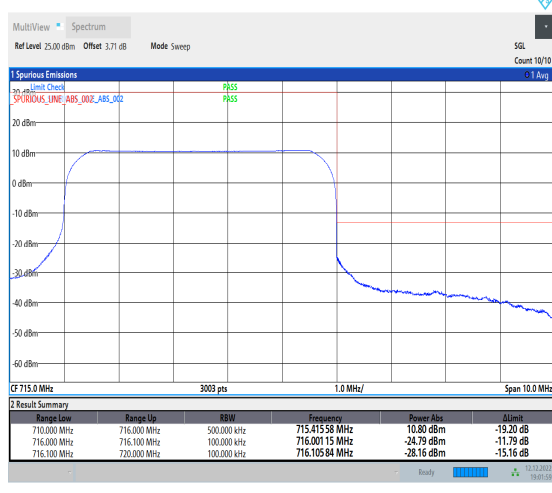
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19:01:34 12.12.2022

1-N12-15-5-H-5-CP-QPSK-Edge\_1RB\_Right-1@24-An  
t1-1--PASS-see graph



19:02:00 12.12.2022

1-N12-15-5-H-6-CP-QPSK-Outer\_Full-25@0-Ant1  
-1--PASS-see graph



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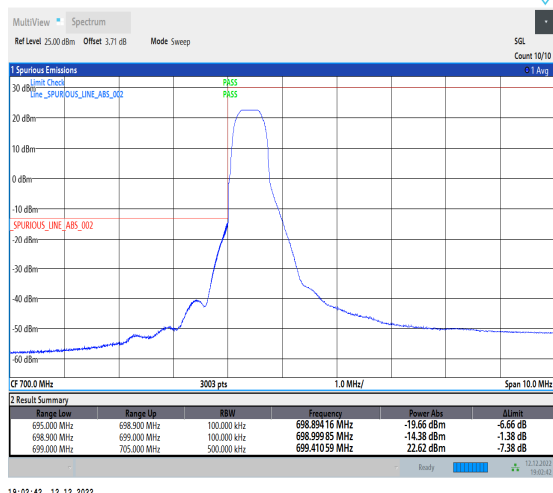
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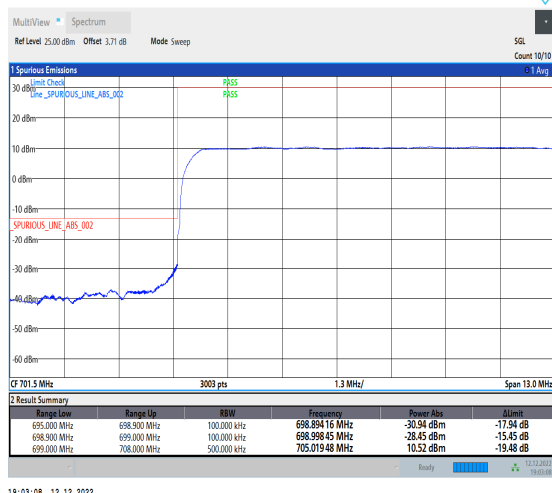
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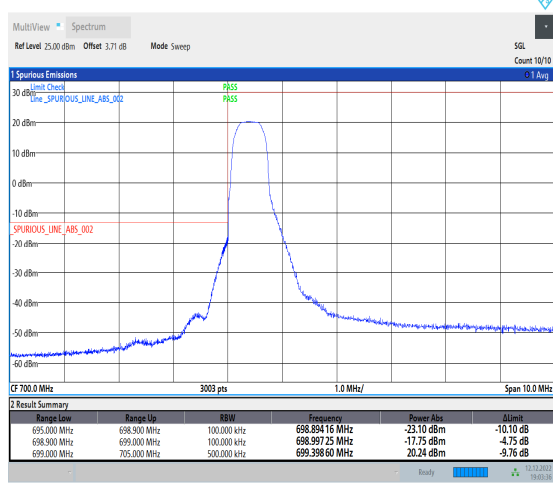
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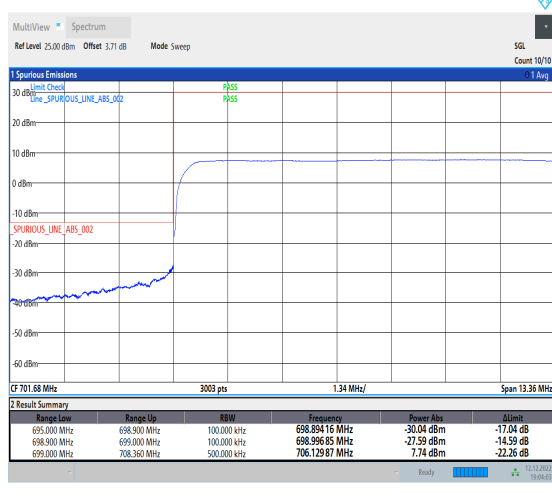
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19:03:37 12.12.2022

1-N12-15-10-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



19:04:03 12.12.2022

1-N12-15-10-L-6-CP-QPSK-Outer\_Full-52@0-Ant1-1--PASS-see graph



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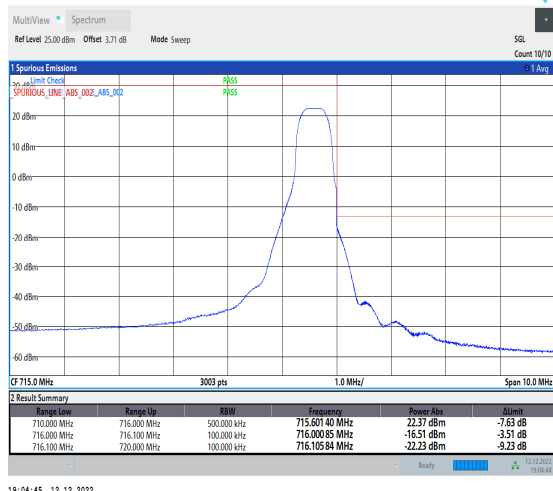
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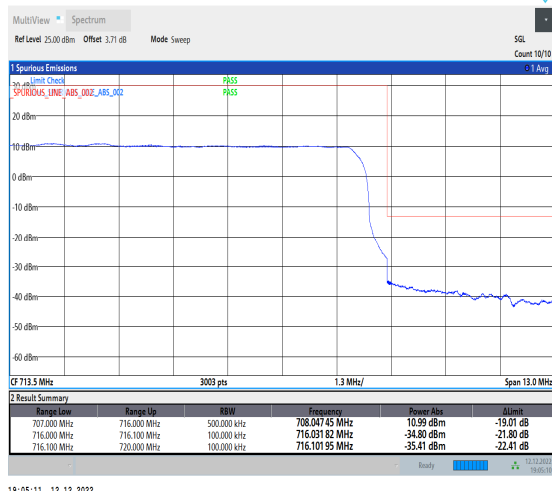
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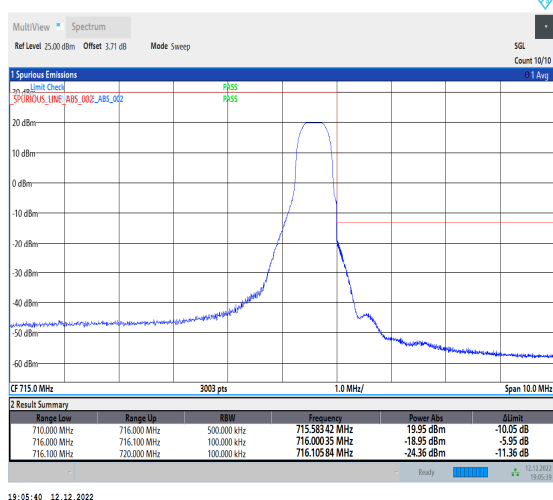
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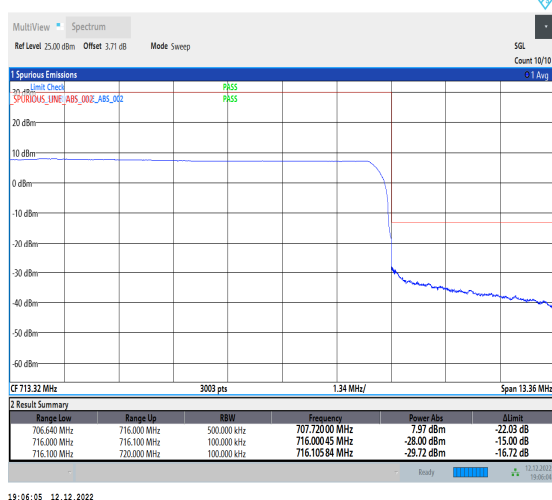
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51-Ant1-1--PASS-see graph

1-N12-15-10-H-3-DFT-PI2BPSK-Outer\_Full-50@0  
-Ant1-1--PASS-see graph



19:05:40 12.12.2022



19:06:05 12.12.2022

1-N12-15-10-H-5-CP-QPSK-Edge\_1RB\_Right-1@51-A  
nt1-1--PASS-see graph

1-N12-15-10-H-6-CP-QPSK-Outer\_Full-52@0-Ant  
1-1--PASS-see graph



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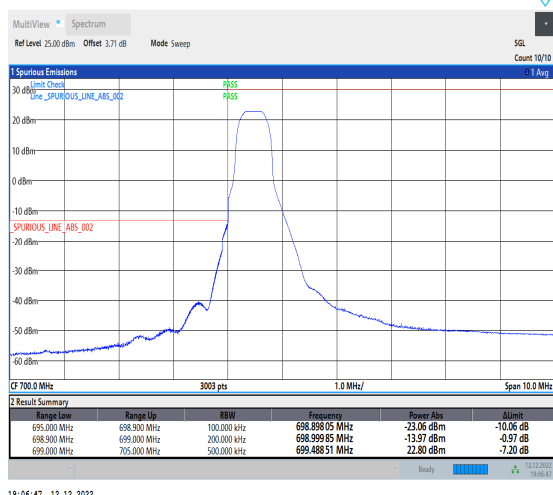
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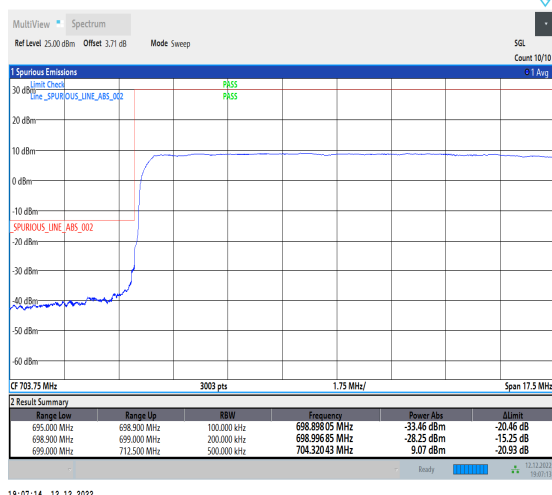
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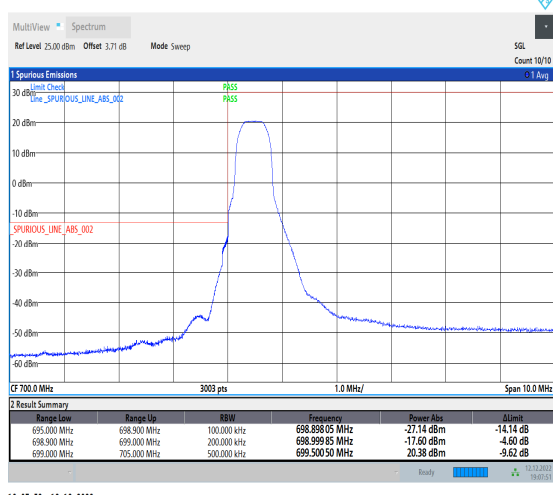
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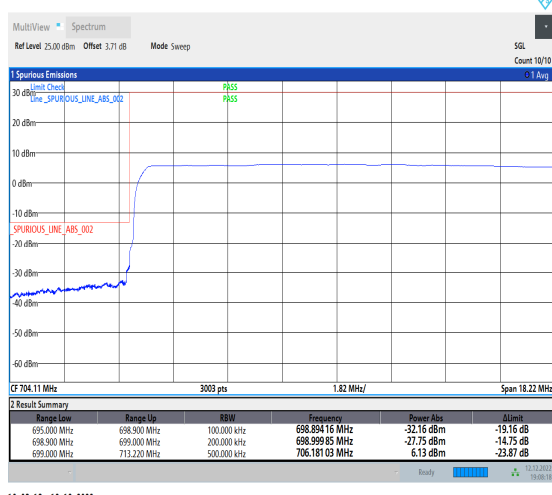
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19:07:52 12.12.2022

1-N12-15-15-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



19:08:18 12.12.2022

1-N12-15-15-L-6-CP-QPSK-Outer\_Full-79@0-Ant1-1--PASS-see graph



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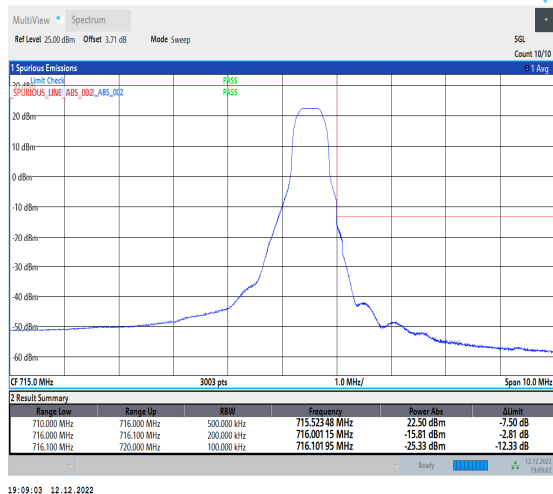
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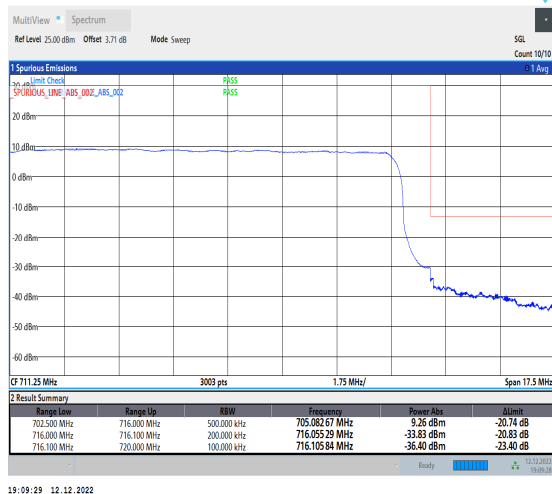
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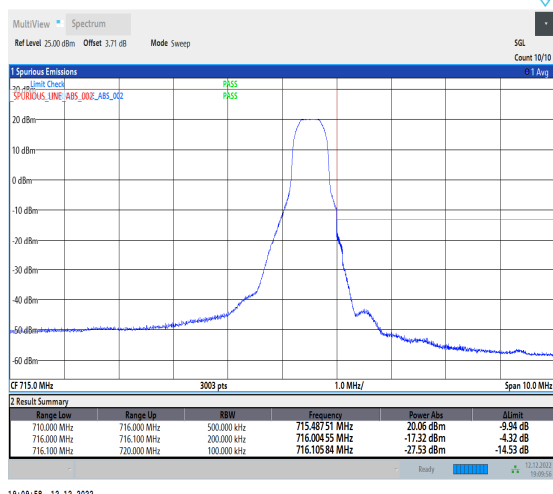
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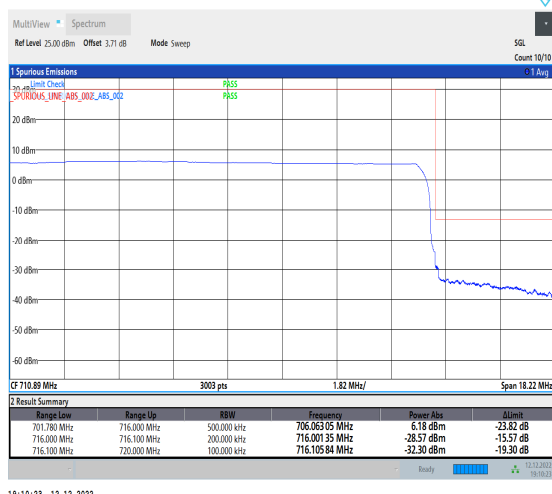
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19:09:58 12.12.2022

1-N12-15-15-H-5-CP-QPSK-Edge\_1RB\_Right-1@78-Ant1-1--PASS-see graph



19:10:23 12.12.2022

1-N12-15-15-H-6-CP-QPSK-Outer\_Full-79@0-Ant1-1--PASS-see graph



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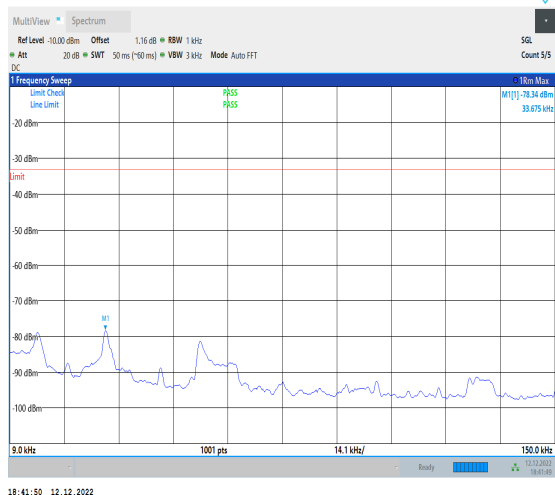
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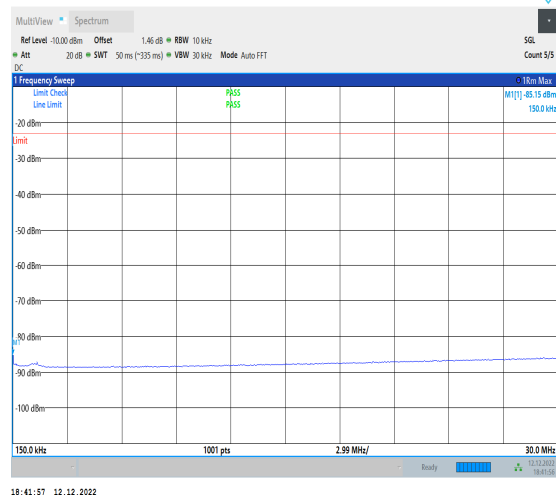
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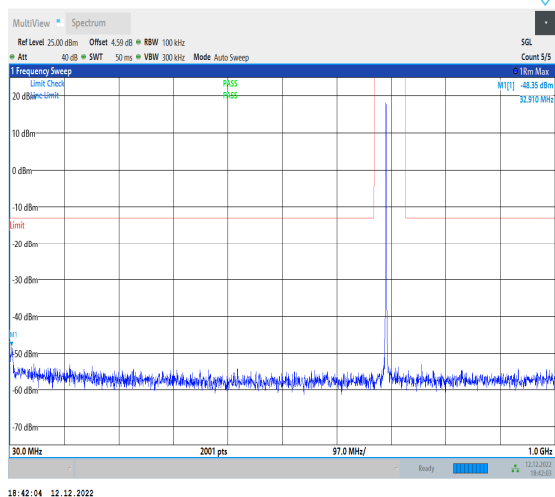
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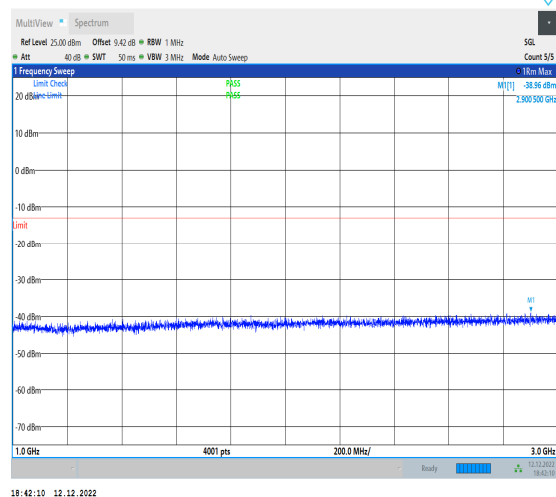
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1-0.15-30-Ant1-0.15--85.15--23-PASS



1-N12-15-15-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-30-1000-Ant1-32.91--48.35--13-PASS



1-N12-15-15-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-1000-3000-Ant1-2900.50--38.96--13-PASS



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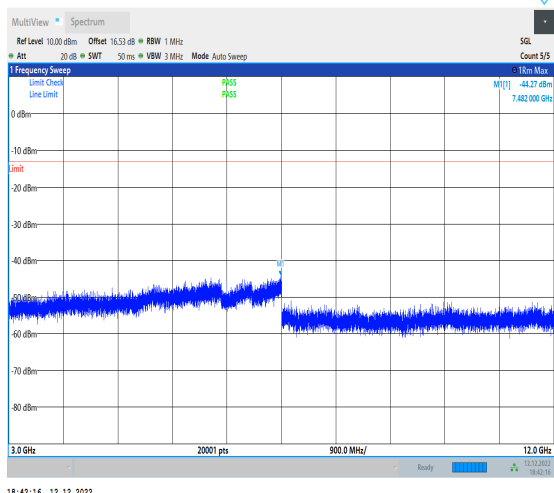
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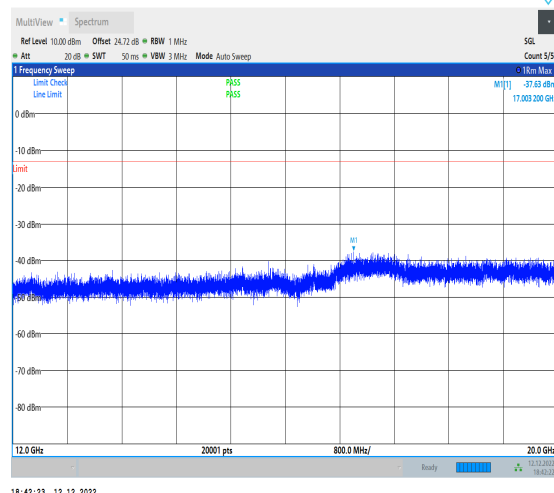
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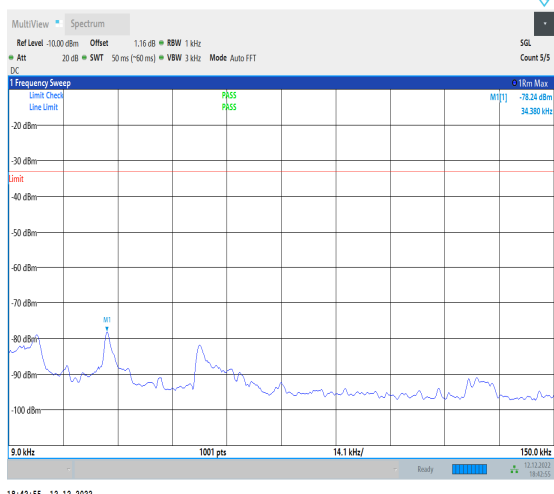
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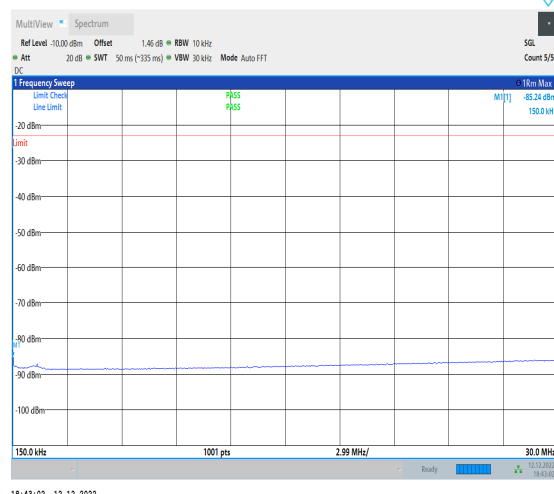
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1-N12-15-15-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
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1-N12-15-15-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-0.15-30-Ant1-0.15--85.24--23-PASS



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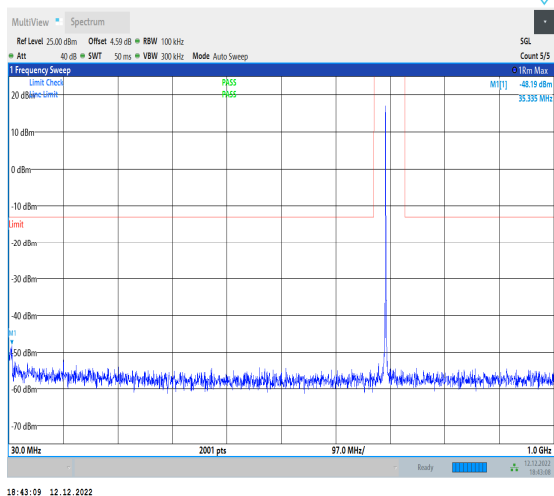
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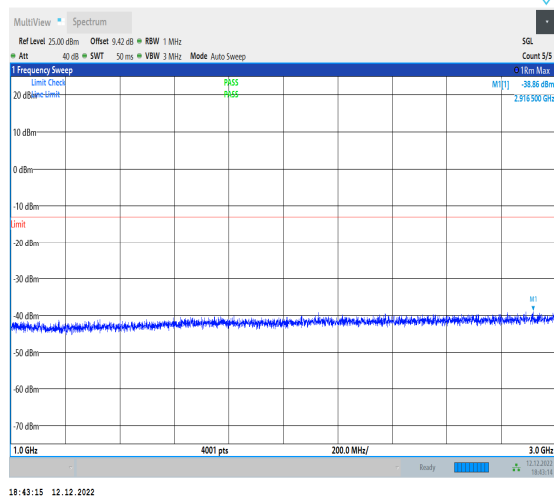
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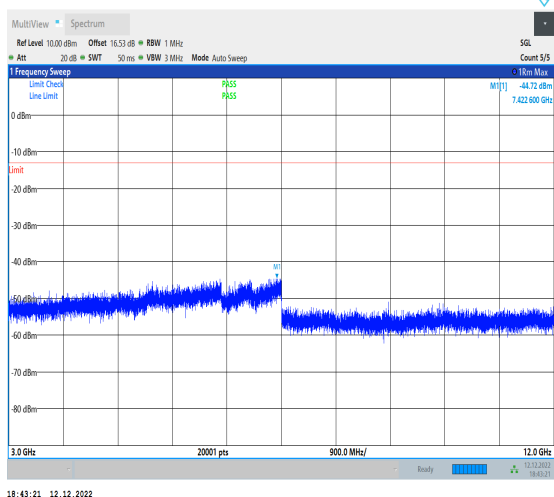
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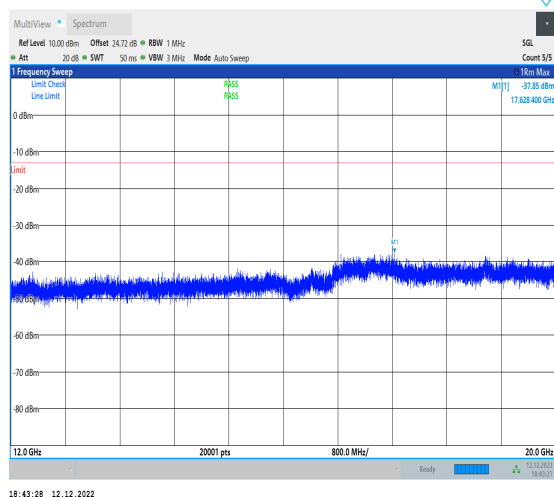
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1-12000-20000-Ant1-17628.40--37.85--13-PASS



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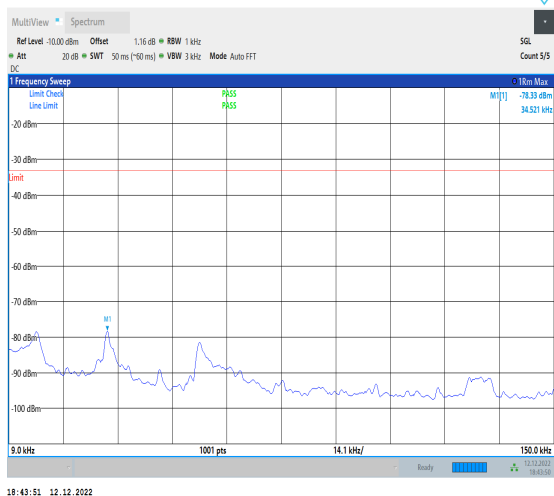
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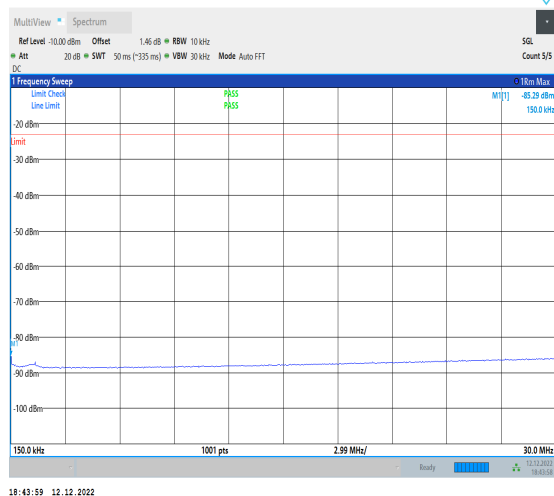
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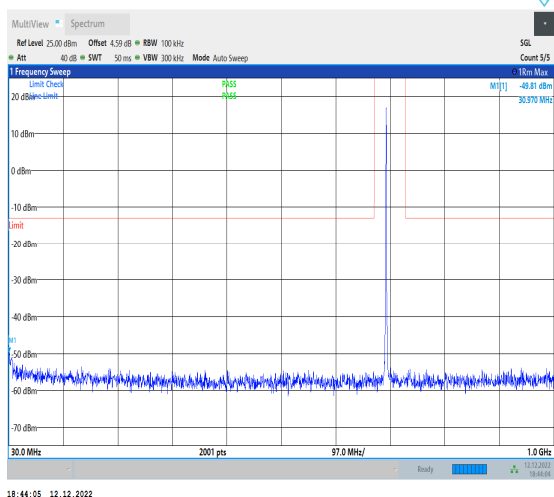
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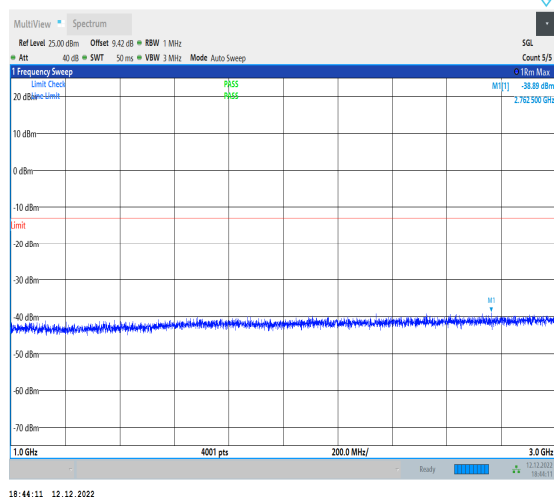
1-N12-15-15-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-0.009-0.15-Ant1-0.03--78.33--33-PASS



1-N12-15-15-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-0.15-30-Ant1-0.15--85.29--23-PASS



1-N12-15-15-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-30-1000-Ant1-30.97--49.81--13-PASS



1-N12-15-15-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-1000-3000-Ant1-2762.50--38.89--13-PASS



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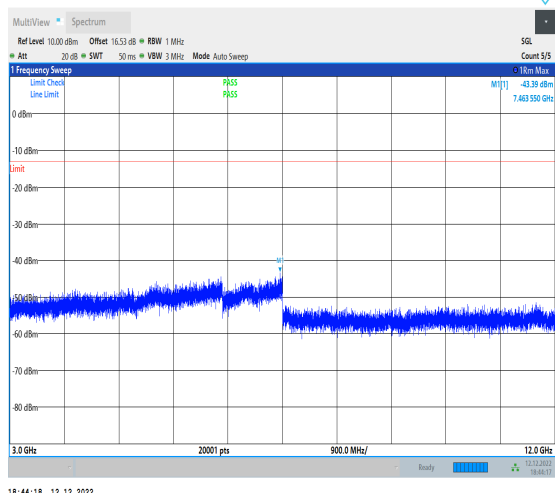
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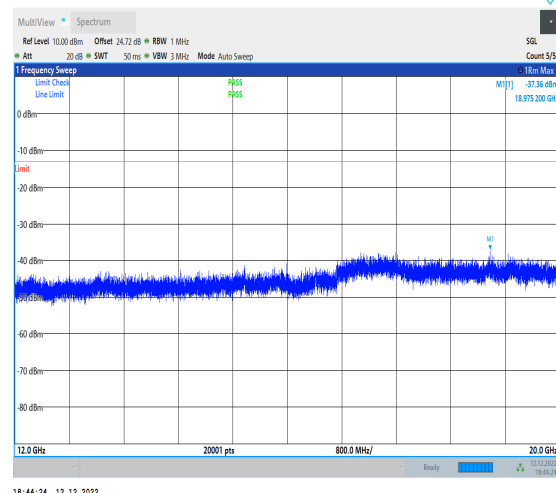
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1-N12-15-15-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-3000-12000-Ant1-7463.55--43.39--13-PASS



1-N12-15-15-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-12000-20000-Ant1-18975.20--37.36--13-PASS



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## Field Strength of Spurious Radiation

**Test Band = SA Band 12 ANT 2\_ TM1**
**Test Channel = Low Channel**

| Final Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1398.6667          | 50.56             | -48.73         | 25.40    | -68.03         | -13.00         | 55.03          | 256            | 284          | Horizontal |
| 2               | 2099.52            | 43.06             | -47.88         | 27.10    | -72.98         | -13.00         | 59.98          | 368            | 5            | Horizontal |
| 3               | 2799.36            | 42.94             | -46.68         | 28.92    | -70.08         | -13.00         | 57.08          | 213            | 331          | Horizontal |
| 4               | 3499.2             | 42.30             | -46.05         | 29.40    | -69.61         | -13.00         | 56.61          | 169            | 345          | Horizontal |
| 5               | 4199.04            | 41.61             | -45.11         | 30.92    | -67.84         | -13.00         | 54.84          | 132            | 357          | Horizontal |
| 6               | 4898.88            | 39.40             | -45.15         | 32.36    | -68.65         | -13.00         | 55.65          | 244            | 0            | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1399.68            | 44.50             | -48.73         | 25.40    | -74.09         | -13.00         | 61.09          | 125            | 359          | Vertical |
| 2               | 2099.52            | 43.23             | -47.88         | 27.10    | -72.81         | -13.00         | 59.81          | 168            | 360          | Vertical |
| 3               | 2799.36            | 43.47             | -46.68         | 28.92    | -69.55         | -13.00         | 56.55          | 236            | 359          | Vertical |
| 4               | 3499.2             | 41.43             | -46.05         | 29.40    | -70.48         | -13.00         | 57.48          | 208            | 360          | Vertical |
| 5               | 4199.04            | 41.48             | -45.11         | 30.92    | -67.97         | -13.00         | 54.97          | 341            | 217          | Vertical |
| 6               | 4898.88            | 40.07             | -45.15         | 32.36    | -67.98         | -13.00         | 54.98          | 309            | 75           | Vertical |



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**Test Band = SA Band 12 ANT 2\_ TM1**
**Test Channel = Mid Channel**
**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| 1   | 1401.68            | 44.18             | -48.73         | 25.40    | -74.40         | -13.00         | 61.40          | 172            | 204          | Horizontal |
| 2   | 2102.52            | 43.63             | -47.88         | 27.11    | -72.40         | -13.00         | 59.40          | 273            | 93           | Horizontal |
| 3   | 2803.36            | 42.75             | -46.68         | 28.93    | -70.26         | -13.00         | 57.26          | 230            | 218          | Horizontal |
| 4   | 3504.2             | 42.18             | -46.05         | 29.41    | -69.71         | -13.00         | 56.71          | 199            | 78           | Horizontal |
| 5   | 4205.04            | 41.30             | -45.11         | 30.93    | -68.14         | -13.00         | 55.14          | 325            | 62           | Horizontal |
| 6   | 4905.88            | 39.52             | -45.14         | 32.37    | -68.51         | -13.00         | 55.51          | 156            | 313          | Horizontal |

**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| 1   | 1401.68            | 44.87             | -48.73         | 25.40    | -73.71         | -13.00         | 60.71          | 236            | 123          | Vertical |
| 2   | 2102.52            | 43.27             | -47.88         | 27.11    | -72.76         | -13.00         | 59.76          | 288            | 261          | Vertical |
| 3   | 2803.36            | 42.68             | -46.68         | 28.93    | -70.33         | -13.00         | 57.33          | 358            | 245          | Vertical |
| 4   | 3504.2             | 42.09             | -46.05         | 29.41    | -69.80         | -13.00         | 56.80          | 302            | 75           | Vertical |
| 5   | 4205.04            | 41.68             | -45.11         | 30.93    | -67.76         | -13.00         | 54.76          | 152            | 350          | Vertical |
| 6   | 4905.88            | 39.78             | -45.14         | 32.37    | -68.25         | -13.00         | 55.25          | 196            | 45           | Vertical |



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**Test Band = SA Band 12 ANT 2\_ TM1**

**Test Channel = High Channel**

| Final Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1398.6667          | 48.49             | -48.73         | 25.40    | -70.10         | -13.00         | 57.10          | 187            | 300          | Horizontal |
| 2               | 2105.52            | 42.91             | -47.87         | 27.11    | -73.11         | -13.00         | 60.11          | 238            | 145          | Horizontal |
| 3               | 2807.36            | 42.72             | -46.69         | 28.95    | -70.28         | -13.00         | 57.28          | 268            | 207          | Horizontal |
| 4               | 3509.2             | 41.95             | -46.04         | 29.42    | -69.93         | -13.00         | 56.93          | 312            | 283          | Horizontal |
| 5               | 4211.04            | 41.95             | -45.11         | 30.94    | -67.48         | -13.00         | 54.48          | 158            | 252          | Horizontal |
| 6               | 4912.88            | 39.79             | -45.13         | 32.39    | -68.21         | -13.00         | 55.21          | 203            | 20           | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1403.68            | 44.99             | -48.72         | 25.40    | -73.59         | -13.00         | 60.59          | 295            | 106          | Vertical |
| 2               | 2105.52            | 43.06             | -47.87         | 27.11    | -72.96         | -13.00         | 59.96          | 193            | 349          | Vertical |
| 3               | 2807.36            | 42.21             | -46.69         | 28.95    | -70.79         | -13.00         | 57.79          | 204            | 232          | Vertical |
| 4               | 3509.2             | 42.14             | -46.04         | 29.42    | -69.74         | -13.00         | 56.74          | 146            | 61           | Vertical |
| 5               | 4211.04            | 41.86             | -45.11         | 30.94    | -67.57         | -13.00         | 54.57          | 233            | 184          | Vertical |
| 6               | 4912.88            | 39.80             | -45.13         | 32.39    | -68.20         | -13.00         | 55.20          | 171            | 122          | Vertical |



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**Test Band = ENDC B2A\_n12A\_ TM1**
**Test Channel = Low**
**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| 1   | 1399.68            | 31.14             | -25.81         | 25.40    | -64.53         | -13.00         | 51.53          | 141            | 319          | Horizontal |
| 2   | 2099.52            | 30.55             | -24.91         | 27.10    | -62.52         | -13.00         | 49.52          | 206            | 118          | Horizontal |
| 3   | 2799.36            | 30.24             | -23.69         | 28.92    | -59.79         | -13.00         | 46.79          | 288            | 223          | Horizontal |
| 4   | 3499.2             | 42.08             | -45.69         | 29.40    | -69.47         | -13.00         | 56.47          | 314            | 65           | Horizontal |
| 5   | 4199.04            | 41.01             | -45.02         | 30.92    | -68.35         | -13.00         | 55.35          | 226            | 231          | Horizontal |
| 6   | 4898.88            | 39.80             | -44.88         | 32.36    | -67.98         | -13.00         | 54.98          | 189            | 316          | Horizontal |

**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| 1   | 1399.68            | 31.28             | -25.81         | 25.40    | -64.39         | -13.00         | 51.39          | 241            | 76           | Vertical |
| 2   | 2099.52            | 30.96             | -24.91         | 27.10    | -62.11         | -13.00         | 49.11          | 185            | 276          | Vertical |
| 3   | 2799.36            | 30.22             | -23.69         | 28.92    | -59.81         | -13.00         | 46.81          | 266            | 357          | Vertical |
| 4   | 3499.2             | 41.78             | -45.69         | 29.40    | -69.77         | -13.00         | 56.77          | 304            | 333          | Vertical |
| 5   | 4199.04            | 40.93             | -45.02         | 30.92    | -68.43         | -13.00         | 55.43          | 182            | 81           | Vertical |
| 6   | 4898.88            | 39.74             | -44.88         | 32.36    | -68.04         | -13.00         | 55.04          | 153            | 283          | Vertical |



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**Test Band = ENDC B2A\_n12A\_ TM1**
**Test Channel = Mid**

| Final Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1401.68            | 31.41             | -25.80         | 25.40    | -64.25         | -13.00         | 51.25          | 162            | 277          | Horizontal |
| 2               | 2102.52            | 31.23             | -24.91         | 27.11    | -61.83         | -13.00         | 48.83          | 279            | 63           | Horizontal |
| 3               | 2803.36            | 30.44             | -23.68         | 28.93    | -59.57         | -13.00         | 46.57          | 203            | 198          | Horizontal |
| 4               | 3504.2             | 41.91             | -45.67         | 29.41    | -69.61         | -13.00         | 56.61          | 321            | 280          | Horizontal |
| 5               | 4205.04            | 41.42             | -45.02         | 30.93    | -67.93         | -13.00         | 54.93          | 241            | 64           | Horizontal |
| 6               | 4905.88            | 39.83             | -44.88         | 32.38    | -67.94         | -13.00         | 54.94          | 149            | 360          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1401.68            | 31.59             | -25.80         | 25.40    | -64.07         | -13.00         | 51.07          | 209            | 0            | Vertical |
| 2               | 2102.52            | 31.22             | -24.91         | 27.11    | -61.84         | -13.00         | 48.84          | 347            | 234          | Vertical |
| 3               | 2803.36            | 30.31             | -23.68         | 28.93    | -59.70         | -13.00         | 46.70          | 255            | 357          | Vertical |
| 4               | 3504.2             | 41.90             | -45.67         | 29.41    | -69.62         | -13.00         | 56.62          | 216            | 282          | Vertical |
| 5               | 4205.04            | 42.05             | -45.02         | 30.93    | -67.30         | -13.00         | 54.30          | 198            | 82           | Vertical |
| 6               | 4905.88            | 39.78             | -44.88         | 32.38    | -67.99         | -13.00         | 54.99          | 145            | 232          | Vertical |



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t (86-512) 62992980 www.sgs.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

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**Test Band = ENDC B2A\_n12A\_ TM1**
**Test Channel = High**

| Final Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1403.68            | 31.19             | -25.80         | 25.40    | -64.46         | -13.00         | 51.46          | 257            | 23           | Horizontal |
| 2               | 2105.52            | 30.23             | -24.91         | 27.11    | -62.83         | -13.00         | 49.83          | 299            | 54           | Horizontal |
| 3               | 2807.36            | 30.33             | -23.67         | 28.95    | -59.65         | -13.00         | 46.65          | 315            | 297          | Horizontal |
| 4               | 3509.2             | 41.88             | -45.65         | 29.42    | -69.60         | -13.00         | 56.60          | 263            | 359          | Horizontal |
| 5               | 4211.04            | 41.34             | -45.01         | 30.94    | -67.99         | -13.00         | 54.99          | 174            | 359          | Horizontal |
| 6               | 4912.88            | 39.88             | -44.89         | 32.39    | -67.88         | -13.00         | 54.88          | 193            | 98           | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1403.68            | 31.46             | -25.80         | 25.40    | -64.19         | -13.00         | 51.19          | 225            | 204          | Vertical |
| 2               | 2105.52            | 31.50             | -24.91         | 27.11    | -61.56         | -13.00         | 48.56          | 296            | 256          | Vertical |
| 3               | 2807.36            | 30.44             | -23.67         | 28.95    | -59.54         | -13.00         | 46.54          | 145            | 235          | Vertical |
| 4               | 3509.2             | 42.47             | -45.65         | 29.42    | -69.01         | -13.00         | 56.01          | 186            | 46           | Vertical |
| 5               | 4211.04            | 41.61             | -45.01         | 30.94    | -67.72         | -13.00         | 54.72          | 352            | 130          | Vertical |
| 6               | 4912.88            | 40.63             | -44.89         | 32.39    | -67.13         | -13.00         | 54.13          | 241            | 353          | Vertical |

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability for SA

### Test Result

### Frequency Error VS. Voltage

| Voltage |     |           |             |         |            |         |             |               |                 |         |
|---------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band    | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N12     | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | VH      | NT          | -4.200000     | -0.005936       | PASS    |
| N12     | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | VN      | NT          | -3.300000     | -0.004664       | PASS    |
| N12     | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | VL      | NT          | -5.100000     | -0.007208       | PASS    |
| N12     | 15  | 15        | CP-QPSK     | M       | Outer_Full | VH      | NT          | -1.700000     | -0.002403       | PASS    |
| N12     | 15  | 15        | CP-QPSK     | M       | Outer_Full | VN      | NT          | -3.000000     | -0.004240       | PASS    |
| N12     | 15  | 15        | CP-QPSK     | M       | Outer_Full | VL      | NT          | -3.700000     | -0.005230       | PASS    |



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**Frequency Error VS. Temperature**

| Temperature |     |           |             |         |            |         |             |               |                 |         |
|-------------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band        | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N12         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | -40         | 5.200000      | 0.002762        | PASS    |
| N12         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | -30         | -2.700000     | -0.003816       | PASS    |
| N12         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | -20         | -5.000000     | -0.007067       | PASS    |
| N12         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | -10         | -3.500000     | -0.004947       | PASS    |
| N12         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 0           | -3.800000     | -0.005371       | PASS    |
| N12         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 10          | -4.500000     | -0.006360       | PASS    |
| N12         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 20          | -2.600000     | -0.003675       | PASS    |
| N12         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 30          | -1.000000     | -0.001413       | PASS    |
| N12         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 40          | -1.400000     | -0.001979       | PASS    |
| N12         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 50          | -3.000000     | -0.004240       | PASS    |
| N12         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 60          | 6.300000      | 0.003347        | PASS    |
| N12         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 75          | 4.100000      | 0.002178        | PASS    |
| N12         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | -40         | 10.600000     | 0.005631        | PASS    |
| N12         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | -30         | 1.100000      | 0.001555        | PASS    |
| N12         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | -20         | -2.800000     | -0.003958       | PASS    |
| N12         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | -10         | -1.500000     | -0.002120       | PASS    |
| N12         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 0           | -3.200000     | -0.004523       | PASS    |
| N12         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 10          | -2.500000     | -0.003534       | PASS    |
| N12         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 20          | -1.700000     | -0.002403       | PASS    |
| N12         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 30          | -0.100000     | -0.000141       | PASS    |
| N12         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 40          | -2.900000     | -0.004099       | PASS    |
| N12         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 50          | -2.400000     | -0.003392       | PASS    |
| N12         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 60          | 4.200000      | 0.002231        | PASS    |
| N12         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 75          | 8.700000      | 0.004622        | PASS    |

---End of Attachment---



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